City of Evansville

Invitation For Bids

IFB-508-01-25

Next Level Trail – Phase Two

Issued By:	City of Evansville Parks and Recreation Department 100 E. Walnut Street C.K. Newsome Building Evansville, IN 47713
Transmitted Via:	Posting on Website
	https://www.evansvillegov.org/city/department/division.php?structureid=133
Inquiries:	Questions should be submitted via email to: Paul Bouseman at pabouseman@evansville.in.gov
Proposals Due:	Wednesday May 7, 2025 at 12:00 Noon CST 1 NW Martin Luther King Jr. Blvd. Evansville, IN 47708 Room 301

VENDOR INSTRUCTIONS

INTRODUCTION

The Board of Park Commissioners (the “Board”) for Next Level Trail Phase One and the City of Evansville (the "City"), is soliciting competitive sealed bids from qualified contractors to install the first phase of a multiuse, accessible concrete trail in adherence to the construction documents.

Your company, among others, is invited to submit a bid on a competitive basis in the format described. The bid documents establish requirements and defines responsibilities of the proposing vendor (hereinafter "Vendor,” “Respondent,” or “Contractor”) to install the first phase of a multiuse, accessible trail.

GENERAL REQUIREMENTS

The responsibilities of the Contractor include, but shall not be limited to, the following:

The Contractor shall purchase all items needed to provide services.

The Contractor will furnish all tools and labor required for service.

Contractor will be responsible for any needed traffic control (vehicular and/or pedestrian) during construction.

Contractor must possess the required local licensing that pertain to work on this project at the time of bid opening, per Evansville Municipal Code 3.95.030.

Prime Contractors are required to be designated as a Responsible Bidder at the time of bid submission for any bid over $150,000 per Evansville Municipal Code 3.95.040. Submittal requirements of sub-contractors may be provided immediately after bid award, but prior to the execution of a contract.

Prime Contractors are required to adhere the Minority Business Enterprise (MBE) and Women Business Enterprise (WBE) initiative per Evansville Municipal Code 3.90.110; likewise, Prime Contractors are required to submit, as necessary, the included Supplement to the General Conditions for Minority and Women Business Enterprise Program.

Contractor must have a written drug testing program in place at the time of bid submission for any bid over $10,000 per Evansville Municipal Code 3.95.020.
Awarded Contractor must carry the required insurance throughout the bidding process until completion of this project listed in the General Conditions.
RESPONSE INSTRUCTIONS

The submitted bid must follow the rules and format established within this Invitation to Bid. Adherence to these rules will ensure a fair and objective analysis of all quotes. Failure to complete any portion of this request may result in rejection of a bid.

Pre-Bid Conference

A Mandatory Pre-bid Conference will be conducted on April 24th, 2025, at 1:00 p, local time at Wesselman Woods Nature Center. All prospective bidders must attend this conference and will be deemed unresponsive if not represented.

CONTACT WITH MUNICIPALITY EMPLOYEES

To ensure a fair and objective evaluation of all bids, Vendors are required to submit all inquiries in writing to Paul Bouseman at his pabouseman@evansville.in.gov email should be titled: Next Level Trail Phase Two.

Inquiries shall be submitted no later than eight (8) days prior to the stated opening time and date. This is to allow for ample time to respond and disseminate to all perspective parties.

All changes in specifications shall be in writing in the form of an addendum and furnished to all contractors. Verbal information obtained otherwise will not be considered in awarding of quotes. No changes to specifications will be permitted within seven (7) days prior to the quote opening.

ACCESS BID DOCUMENTS
Before submitting a bid, vendors shall examine the specifications in order to understand all existing conditions and limitations.

COSTS OF BID PREPARATION AND SUBMISSION

Each vendor shall be responsible for all costs incurred in order to prepare and submit their response to this IFB.

BID BOND
Each bid shall be accompanied (in the same envelope) by a bid bond or certified check, made payable to the "CITY OF EVANSVILLE", in an amount equal to five percent (5%) of the total bid submitted.

No bid may be withdrawn after the opening of bid without the consent of the Evansville Board of Parks Commissioner for a period of thirty (30) days after the scheduled time of opening bids.

PUBLIC OPENING PROCEDURES
No award will be made or implied at this time, unless otherwise indicated.

Only the following information will be given:
Vendor name and amount of bid

Bids or related documents may not be reviewed at the bid opening. No discussion of any nature concerning brand names, deliveries, samples, etc. can be entered into between any Purchasing Department personnel and any Vendor during or after the bid opening until the evaluation of bids have been completed and a recommendation for award has been made.

A copy of the bid tabulation will be available to review in the Purchasing Department upon completion of the recommended award.

Vendors who wish to review or request copies of bids may do so by contacting the Purchasing Department at 812-436-4915. A copy fee will be charged for copies.

ACCESS TO PUBLIC RECORDS
All submissions may be considered public documents under applicable laws and may be subject to disclosure. Some bid records are public as soon as received by the City, others become public at bid opening, and others at bid award. Contractor recognize and agree that City will not be responsible or liable in any way for any losses that the Contractor may suffer from the lawful disclosure of information or materials to third parties.

Any materials requested to be treated as confidential documents, proprietary information, or trade secrets must be clearly identified and readily separable from the balance of the bid submission. Such designations will not necessarily be conclusive, and Contractor may be required to justify why such material should not, upon written request, be disclosed by the City under the applicable public records act.

City will endeavor to provide at least two (2) business days' notice to the Contractor of a public records request for material submitted pursuant to this IFB (Invitation for Bid). The City will then release the document in accordance with the City's policy for responding to such requests unless both of the following are true:
the Contractor responds to the notice with any objection to the production of the document within two (2) business days of receipt of the notice; and
the Contractor agrees in writing to indemnify City, in a form acceptable to City, in the event a challenge is brought for withholding a public record based on Contractor having designated it a trade secret.

BID FORMAT AND FORMS

Each bid will be prepared in the format specified, incorporating the additional forms provided at the end of this document, and be submitted in a sealed envelope.

The bidder shall give the unit prices in both written form and numerical form for each item. In the event of a discrepancy between written prices and numerical prices the written price form will take precedence and will be used in computing the total project cost.
Submit one (1) original and one (1) electronic copy on a flash drive in a Windows-compatible and searchable format such as PDF. Bids must be clear, concise, typewritten, and must be signed in ink by the official authorized to bind the submitter to its provisions.

The contents of this bid will become incorporated within any contract signed by the Board and the provider of service. Do not retype this bid. Instead, respond on a separate page and cite the section number for each response. All areas of the request must be addressed in the same sequence cited in the Bid instructions in order that proper consideration is given to the bid. *Bids submitted without information or incomplete content will result in the bid being removed from consideration.*

DELIVERY OF BIDS

The submittals must be sealed and clearly labeled:

<Company Name>
Next Level Trails Phase Two
IFB-508-01-2025
Bid Open Date: May 7, 2025

It is the sole responsibility of the vendor to see that their bid is received in the proper time. Any bids received after the bid opening date and time shall be eliminated from consideration and returned to the Vendor unopened.

Bids must be delivered by 11:45am CDT on May 7, 2025 to the following address:

Purchasing Department
1 NW Martin Luther King, Jr. Blvd, Rm 323
Evansville, Indiana 47708

NOTE: Any bids submitted after 11:45am on May 7, 2025, but before the scheduled opening at 12:00 PM CDT shall be delivered to City Council Chambers, Room 301, 1 NW Martin Luther King Jr. Blvd., Evansville, Indiana 47708.

BID EVALUATION

The bid selected shall be the lowest responsive and responsible bidder that provides the most comprehensive approach that meets the stated requirements. The Board reserves the right to award on a line-item basis.

RIGHT TO DISCUSSIONS

The agency reserves the right to conduct discussions with Respondents for the purpose of clarification to assure full understanding of, and responsiveness to, the solicitation requirements. The agency further reserves the right to excuse technical defects in a bid when, in its sole discretion, such excuse is beneficial to the agency.

RIGHT OF REFUSAL

The Board reserves the right to reject any one or all bids, or any part of any bid, to waive any informality in any bid, and to award the purchase in the best interest of the Board /City. Furthermore, the City reserves the right to hold the bid of the three (3) lowest Vendors for a period of sixty (60) calendar days from and after the time of the bid opening.

AWARD OF CONTRACT

It is the intent of the Board to enter into a contract with a provider that will emphasize administrative efficiencies, and possess the capacity, infrastructure and organizational competence to perform required functions necessary for managed care under this bid.

Award recommendations are contingent upon an initial evaluation of the Contractor's qualifications to determine if the Contractor is a quality service provider. The Contractor's policies and procedures may be evaluated as a further determination of quality.

The process of evaluating each Contractor's bid may involve interviews with a random sampling of the Contractor's current and previous customers. This is not an exclusive criterion for awarding the contract.

It is anticipated that contract(s) will be awarded on or before June 4, 2025.

SUB-CONTRACTORS

The Board intends to contract with one prime Contractor who will be solely responsible for contractual performance. In the event the prime Contractor utilizes one or more sub-contractors, the prime Contractor will assume any and all responsibility for performance of services by the sub-contractor(s). Additionally, the City of Evansville must be named as a third-party beneficiary in all subcontracts.

A list of all sub-contractors proposed to take part in the performance of the contract must be provided to the City of Evansville for approval prior to contract execution. This request may require that sufficient financial or background information pertaining to included sub-contractors be provided.

The City of Evansville reserves the right to limit and/or reject any and all sub-contractors.

MINORITY AND WOMEN BUSINESS ENTERPRISE UTILIZATION

The City of Evansville formally adopted a Minority and Women Business Utilization Plan illustrating a commitment to achieving significant utilization of Minority and Women Business Enterprises (M/WBE) in the community's purchasing efforts. Goals have been established to provide an atmosphere of equal opportunity for all Vendors and to prohibit discrimination in all aspects of the public operations including the purchasing of products, services, and Park Commissioners contracts. (See City of Evansville Municipal Code 3.90.110-180)

E-VERIFY PROGRAM

Pursuant to Indiana Code 22-5-1.7-11 (b)(2) the Contractor shall provide documentation that it has enrolled and is participating in the E-Verify Program (see Indiana Legal Employment Declaration form). Contractor is required to submit proof from the E-Verify Program that it is currently enrolled in the Program. An example of confirmation is the confirmation e-mail received from E-Verify that the Contractor has successfully enrolled in E-Verify.

TAXES

The City of Evansville is exempt from federal, state, and local taxes and will not be responsible for any such taxes in connection with the award or performance of this contract.

LICENSES AND PERMITS

The successful Vendor or Vendors shall furnish the City of Evansville upon request any and all documentation regarding licenses, permits, certifications and/or registrations required by the laws and regulations of the City of Evansville, Vanderburgh County, the State of Indiana and the United States of America.

The Provider certifies that it is now and will remain in good standing with the aforementioned governmental agencies and that it will maintains its licenses, permits, certifications and/or registrations in force during the term of the contract/agreement with the City of Evansville, Vanderburgh County, Indiana.

CHOICE OF LAW AND VENUE

Any and all actions or proceedings arising out of, or related to, this bid and any resulting contract shall be governed by and construed in accordance with the laws of the State of Indiana. Submission of this bid by Vendor constitutes consent and stipulation to jurisdiction and venue in the courts of Vanderburgh County, Indiana, concerning all litigation and proceedings arising out of or related to this bid and any resulting contract.

CONTRACTOR'S ACKNOWLEDGMENT

The Contractor shall comply with the provisions as set forth in Indiana Code § 5-16-13, et al. as required by Indiana Code § 5-16-13-7. Additionally, Contractor shall execute the attached "Contractor's Acknowledgement" and return to Owner prior to the commencement of any Work.
SPECIFICATIONS: See Construction Documents.

LENGTH OF CONTRACT

The Contract shall be awarded by action of The Evansville Board of Parks Commissioners.
The Board of Park Commissioners shall furnish the Bidder receiving award with a notice of award and three signed copies of the contract. The Contractor shall sign all three copies, returning two to the Department of Parks and Recreation along with the required Proof of Insurance. The Contractor shall have Ten (10) Calendar Days from the notice of award to submit all required documents to execute this contract. If all requirements are not met within the specified time period, the Contractor's Bid Bond accompanying this bid, and the

proceeds thereof, shall be paid into the general fund of the City of Evansville, unless a mutual resolution is met by both parties due to an unforeseen incident involving this bid. When all these requirements have been met, the Department of Parks and Recreation may issue the Contractor a notice to proceed. The Contractor shall commence work within four weeks after issuance of the notice to proceed. The Contractor shall have the project completed by December 31, 2025 unless a mutual agreed upon extension is granted in writing by City. The Contractor shall be required to guarantee the improvements for a period of three (3) years from the date of final acceptance against all defects in materials and workmanship and shall agree that during the guarantee period specified they will, at own expense, make all repairs which may become necessary.
In case repairs become necessary, the Owner shall give written notice to the Contractor to make the repairs. In case of failure of the Contractor to commence the repairs within ten (10) days after notice, the Owner may cause the repairs to be made, and may thereupon recover the reasonable cost of the repairs so made from the Contractor, together with the cost of the supervision and inspection thereof. The Owner shall have ninety (90) days after the expiration of the guarantee period in which to notify the Contractor of any repairs necessary on the date of expiration.

Any reference made to any manufacturer or brand name is not to be construed as a limiting factor in the bid, but is meant to show the minimum scope and quality of the product to be quoted. Contractor can submit approved equals for items that vary from those requested.

Note – If the project cost exceeds budget, project may award by individual location(s) or rejected in total.

The Contractor is to provide to the City of Evansville a copy of its "Random Drug Testing Program and Contractor's Licenses" as provided for in Chapter 3.95 of the City of Evansville Municipal Code if the quote is $10,000 or more or if under $10,000 the contractor is to provide the City of Evansville a copy of its "Contractor's Licenses and Random Drug Testing Program" which is to include at a minimum random drug testing of at least the five (5) drug panel tests as provided for in Chapter 3.95 (a copy of which is attached) in Title 3 of the City of Evansville Municipal Code at the time of the quote.

Notice to Proceed & Schedule of Work:.
NOTE: If work is not completed in the time schedule set above, a $100 per day penalty in liquidated damages will be assessed against the Contractor for each day work does not meet the guideline as specified unless a mutual resolution is met by both parties due to an unforeseen incident involving this bid.

Final Inspection & Invoicing: Upon completion of the work, the Contractor shall schedule an inspection with the owner and designer. After inspection, a list of items needing additional work or correction will be provided to the Contractor. Upon completion of these items, the Contractor shall request another inspection. This process will be repeated until all work is deemed acceptable to the City. The last inspection shall constitute the final inspection and acceptance of the work by the City (the "Final Inspection"). Until the Final Inspection, no part of the work will be accepted. Only upon Final Inspection may the Contractor submit an invoice for the contract amount as modified by any written change orders.

QUALIFICATIONS

Statement of Experience

a. Contractor must submit three (3) local letters of references.
b. Contractor must submit list of manpower to be utilized.
c. Contractor must submit length business has been in existence doing this type of work.

Non-Compliance

The Contractor also agrees that should the Contractor fail to comply with the terms of the contract, Contractor will be given four (4) days to bring in such non-compliance to compliance. If Contractor fails to correct such non-compliance, the City may do one or more of the following:

a. Terminate the contract and pay the Contractor only to the date of termination less any amounts owed to the City by the Contractor.
b. Use its own workers or hire another contractor to remedy the breach and withhold from payments due the Contractor the cost of such corrective measures.
c. Any other remedy allowed at law or equity.

INVOICE SUBMISSION

The invoice submitted for payment must include the following:

a. Name "City of Evansville - Department of Parks and Recreation" on the invoice(s).
b. All invoices must be itemized.
c. Must contain:

a. company name
b. Address
c. phone number.

d. Invoices must have an unique invoice number and not duplicate any others.

CONTRACTOR'S INSURANCE

The Contractor shall not commence any Work under this Contract until he has obtained insurance of the types and in the amounts required by this Section, nor shall the Contractor allow any Sub-contractor(s) to commence any Work on his Subcontract until all insurance required of the Sub-contractor(s) has been obtained. The Contractor shall be responsible for verifying the acquisition and maintenance of said insurance by any Sub-contractor(s) hired by the Contractor. The Contractor shall name the City of Evansville as an additional insured to all insurance contracts procured by the Contractor in accordance with this Section. All insurance procured by the Contractor is to be placed with insurers whom maintain a Best's rating of no less than A:VII. The Contractor shall be solely responsible for the payment of all premiums associated with any insurance required by Owner, and the Contractor shall be solely responsible for the payment of all deductibles to which such policies are subject, whether or not the Owner is an insured under the policy. The Contractor shall advise all Sub-contractor(s) of the requirements set forth above.

Commercial General Liability Insurance: The Contractor shall furnish and maintain, at the Contractor's expense during the life of the Contract, such Commercial General Liability Insurance as shall protect him, the Owner, as an additional insured, and any Sub-contractor(s) performing Work under this Contract, from claims for damage for personal injury, occupational sickness or disease, including accidental death, as well as the claims for property damage, which may arise from operations under this Contract, whether such operations be by himself or by any Sub-contractor(s), or by any one directly or indirectly employed by either of them. The amounts of such insurance shall be as required by law. The Owner shall have the right to reject the insurance carrier selected by the Contractor. No Work shall commence prior to the Owner receiving a certificate of insurance verifying the coverages to be provided as defined herein. In the absence of regulations, the amounts of coverage shall be as follows:

General Aggregate:	Not Less Than $5,000,000
Products & Completed Operations Aggregate:	Not Less Than $5,000,000
Personal & Advertising Injury:	Not Less Than $1,000,000
Each Occurrence:	Not Less Than $750,000
Fire Damage (Any one fire):	Not less Than $50,000
Medical Expense (Any one person):	Not Less Than $5,000

Worker's Compensation Insurance: The Contractor shall furnish certificates from the Worker's Compensation Board of Indiana, or its successor, that he is fully covered by Worker's Compensation and Occupational Diseases insurance, on all Employees on the Project. The Contractor shall maintain said coverage for the life of the Contract. The same requirements pertain to any Sub-contractor(s). The Contractor shall be responsible for verifying that all Sub-contractor(s) have Workmen's Compensation and Occupational Insurance Coverage. No Work shall commerce prior to the Owner receiving a certificate of insurance verifying the coverages provided herein.

Automobile Liability: The Contractor shall furnish and maintain, at his expense during the life of the Contract, automobile liability insurance, covering claims for damages because of bodily injury, death or property damage arising from the use of all motor vehicles engaged in operating within the terms of this Contract. The amounts of such combined single limit coverage shall be not less than ($ 1,000,000) for any one occurrence, including hired and non-owned vehicles. All Sub-contractor(s) of the Contractor shall have similar automobile liability insurance. The Contractor shall be responsible for verifying that all Sub-contractor(s) have said automobile liability insurance. Coverage 1 shall apply. No Work shall commence prior to the Owner receiving a certificate of insurance verifying the coverage provided herein.

Special Hazards: Special Hazards, as determined by the Owner, shall be covered by rider or riders in amounts to be agreed upon, to the Liability Insurance policy or policies required to be furnished by the Contractor, and all Sub-contractor(s) employed by the Contractor, or by separate policies of insurance in the amounts as defined in the Special Conditions of the Contract Documents. All such special Hazards insurance coverage shall have the Owner as an additional insured. No Work requiring special hazard coverage shall commence until the Owner has received a certificate of insurance verifying the coverage required herein.

Builder's Risk Insurance: The Contractor, and all Sub-contractor(s) employed by the Contractor, shall maintain Builder's Risk Insurance, "all risk" coverage, on the Project for the benefit of the Owner. The Contractor shall be responsible for verifying that all Sub-contractor(s) have the required Builder's Risk Insurance coverage. However, this provision shall not release the Contractor from his obligation to complete the Project, and the Contractor and his Surety shall be obligated to full performance of the Contract.

Sub-contractor(s) Insurance: The Contractor shall require all Sub-contractor(s) to secure and maintain in force during the term of this Contract, all such insurance coverages defined above. The Contractor shall verify the existence of all said insurance policies and coverages. No Work by a Sub-contractor(s) shall commence prior to the Owner receiving a certificate of insurance verifying the coverage required herein.

Other Provisions: Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Owner, its officers, officials, employees and volunteers by the Contractor and Sub-contractor(s). The Contractor's and Sub-contractor's insurance

shall apply separately to each insured against whom claim is made or suit is brought except with respect to the limits of the insurer's liability. The insurer shall agree to waive all rights of subrogation against the Owner, its officers, officials, employees and volunteers for losses arising from Work performed by the Contract for the Owner. The Contractor shall be responsible for notifying all insurance carriers of this contract provision and shall be liable to the Owner for any failure to so notify and advise any insurance carrier of this provision.

PROOF OF INSURANCE

The Contractor shall furnish the Owner with satisfactory proof of coverage of the insurance required, in a reliable company or companies to be approved by the Owner, licensed to do business in the State of Indiana, before commencing any Work. Such proof shall consist of certificates executed by the respective insurance companies, filed with the Owner. The certificates of insurance shall show the name and address of the Company, expiration date or dates, and the policy number or numbers. The Owner reserves the right to require complete, certified copies of all required insurance policies at any time.

Proof of insurance shall be maintained up to date, and failure to maintain adequate coverage and proof shall be deemed sufficient reason for cancellation of the Contract. All insurance shall provide that the policy shall not be canceled, terminated or modified unless thirty (30) days prior to such cancellation, termination or modification written notice is given to the Owner. No policy may be modified, terminated or canceled by the Contractor without the prior written approval of the Owner.

DAMAGE TO PREMISES

If the property or contents is damaged in any way whatsoever by reason of any act or omission of the Contractor or its employees, the Contractor shall immediately repair at its own cost and expense the building, structure, wall, fence, equipment, etc., as damaged. Upon failure of the Contractor to make such repairs, the Board of Park Commissioners and/or the City of Evansville may repair such damage at the cost and expense of the Contractor and shall have the right to terminate the contract.

Tabulation Pages

The Board of Parks Commissioners / City of Evansville invites your bid for the following item:
for
NEXT LEVEL TRAIL PHASE ONE

To be opened at 12:00 pm (CDT) on May 7, 2025 in Room 301 of the Civic Center Complex.

The undersigned proposes to furnish and deliver, in accordance with the requirements of the Instructions to Vendor's and the Specifications prepared by REA.

Please be advised that any alterations, changes in bid format, etc., will make it difficult to evaluate bids and may lead to confusion. All items should be quoted in the units, quantities, and units of measurements specified. Do not submit alternate bid unless requested. The City of Evansville and the Board of Park Commissioners shall reserve the right to reject any or all bids or any part thereof.

QUOTATIONS

1. All prices F.O.B. to City of Evansville, 47708. Yes____No _____

INDEMNIFICATION

Bidder will indemnify and hold harmless the City of Evansville and Vanderburgh County in accordance with the provisions contained herein? Yes____No _____

BIDDER QUALIFICATION AND EXPERIENCE

Bidder has included three (3) references? Yes____No _____

Bidder possesses necessary occupational license(s)? Yes____No _____

_____
Printed Name of individual completing bid package

_____
Date

BID SHEET

[PLEASE MAKE THIS PAGE 1 OF YOUR SUBMISSION]

1. **Next Level Trails Phase 1**

Bid Amount: $_____

Written: _____

MBE Participation Percentage: _____ **WBE Participation Percentage: _____**

ADD ANY ADDITIONAL OPTIONS HERE:

_____

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_____

VENDOR'S CHECKLIST:

In order to be accepted as a valid bid, the following items MUST be included with your bid, along with any other information requested in the specifications.

1. Tabulation Page _____
2. Vendor Checklist _____
3. Non-Collusion Affidavit _____
4. Equal Employment Opportunity Statement _____
5. Indiana Legal Employment Declaration/E-Verify _____
6. Conflict of Interest Disclosure _____
7. Contractors Bid for Public Work – Form _____
8. Responsible Bidder certification _____
9. MBE/WBE Supplement Forms _____
10. Minimum Qualifications _____
11. Statement of Experience _____
12. List of References _____
13. Bid Bond _____
14. Contractor's Acknowledgment _____
15. Bid Form Supplements _____

NON-COLLUSION AFFIDAVIT

STATE OF INDIANA)
) ss:
VANDERBURGH COUNTY)

The undersigned vendor or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by vendor, entered into any combination, collusion or agreement with any person relative to the price to be proposed by anyone at such letting nor to prevent any person from submitting a proposal nor to induce anyone to refrain from submitting a proposal, and that this proposal is made without reference to any other proposal and without any agreement, understanding or combination with any other person in reference to the proposal.

Vendor further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

_____

Subscribed and sworn to before me this _____day of _____, 20___
My Commission Expires: _____
County of Residence: _____

ACCEPTANCE

There now being sufficient unobligated appropriated funds available, the contracting authority of Board of _____(City of Evansville) (Governmental Unit) hereby accepts the terms of the attached proposal for classes or items numbered _____and promises to pay the undersigned vendor upon delivery the price proposal for the materials/equipment stipulated in said proposal.

Contracting Authority Members: Date:

_____ _____

_____ _____

_____ _____

STATE OF _____)
) SS:
COUNTY OF _____)

BEFORE ME, a Notary Public in and for said County and State, personally appeared _____, _____of _____, who having been duly sworn, acknowledged and affirmed that they did sign said instrument as such officer or authorized agent for and on behalf of _____, and by authority granted by such entity, that the same is their free act and deed and the free act and deed of said entity.

WITNESS my hand and notarial seal this _____day of _____, 20_____.

My commission expires: _____ Notary Public

My County of residence is: _____County, State of _____

Printed Name of Notary Public: _____

EQUAL EMPLOYMENT OPPORTUNITY

During the performance of the contract, the Contractor agrees as follows:

1. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin political affiliation or belief, age or disability. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to race, color, religion, sex, national origin, political affiliation or belief, age, or disability. Such action shall include but not be limited to the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notice setting forth the provisions of the nondiscrimination clause.

2. The Contractor agrees that all services, facilities, activities and programs provided as part of this contract will meet the requirements of the Americans with Disabilities Act and the rules and regulations promulgated thereunder.

3. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor; state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, political affiliation or belief, age or disability.

4. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided, advertising, the labor union or workers' representative of the Contractor's commitments under the Equal Employment Opportunity Section of this contract, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

5. in the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be cancelled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further City/County contract.

Vendor Representative (Please Print)	Signed
Vendor Name	Telephone
Vendor Address	Date

INDIANA LEGAL EMPLOYMENT DECLARATION

The State of Indiana has enacted a law (I.C. 22-5-1.7) requiring all state agencies and political subdivisions request verification from their contractors that their employees are legally eligible to work in the United States. This Declaration serves as notice that all Contractors doing business with the City of Evansville must, as a term of their contract:

1. Enroll in and verify the work eligibility status of newly hired employees of the contractor through the E-Verify programs (but is not required to do this if the E-Verify program no longer exists); and
2. Verify, by signature below, that the Contractor does not knowingly employ unauthorized aliens.

I, _____, a duly authorized agent of _____(name of Company), declare under penalties of perjury that _____(name of Company) does not employ unauthorized aliens to the best of its knowledge and belief.

_____

(Name of Company)

By:_____

(Authorized Representative of Company)

Subscribed and sworn to before me on this _____day of _____, 20___.

My Commission Expires: _____

County of Residence: _____

_____

Notary Public – Signature

_____

Notary Public – Printed Name

For instructions and electronic registration for E-verify, please see:

https://idp.uscis.gov/

NON-CONFLICT OF INTEREST/FAMILIAL DISCLOSURE FORM

Project: _____

All Bidders must complete the following Non-Conflict of Interest disclosure form and attach this information to the bid.

As the bidder, I affirm that no principal, representative, agent, contractor, or other acting on behalf of or legally capable of acting on the behalf of the bidder, is currently an employee of the City or the Board; nor will any such person connected to the bidder currently be using or privy to any information regarding City or the Board which may constitute a conflict of interest.

As the bidder, I understand that completing this form and self-disclosing potential conflicts of interest does not necessarily disqualify a bidder, but aids in identifying individual City employees, Board members and/or their family members who may have a personal or business connection to the bidder. The City will ensure that any individuals identified with a potential conflict will not be allowed to participate in the scoring or evaluation of the bid packages, to ensure the integrity of the RFP process. This disclosure shall be presented to the VP of Business Operation who will then forward the information to the CEO.

By the attached sworn and notarized statement, we are disclosing the following familial relationship(s) that exists between the bidder or any employee of the bidder and any member of City or the board. As bidder, I am also disclosing any familial relationships which exist.

The following is a list of individuals who may pose a potential conflict of interest as described above (provide employee name, City named contact, City contact's position, and the familial relationship or NONE.):

_____

Signature(s)_____ Title:_____

Name of Firm:_____

Subscribed and sworn to before me on this _____day of _____, 20___.

My Commission Expires: _____

County of Residence: _____

_____

Notary Public – Signature

_____

Notary Public – Printed Name

CONTRACTOR'S BID FOR PUBLIC WORK - FORM 96
State Form 52414 (R2 / 2-13) / Form 96 (Revised 2013)
Prescribed by State Board of Accounts

PART 1
(To be completed for all bids. Please type or print)

Date (month, day, year): _____

1. Governmental Unit (Owner): _____
2. County : _____
3. Bidder (Firm): _____
   Address: _____
   City/State/ZIP code: _____
4. Telephone Number: _____
5. Agent of Bidder (if applicable): _____

Pursuant to notices given, the undersigned offers to furnish labor and/or material necessary to complete the public works project of _____

(Governmental Unit) in accordance with plans and specifications prepared by _____ _____ and dated _____ for the sum of $_____

The undersigned further agrees to furnish a bond or certified check with this bid for an amount specified in the notice of the letting. If alternative bids apply, the undersigned submits a proposal for each in accordance with the notice. Any addendums attached will be specifically referenced at the applicable page.

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original contract if accepted by the governmental unit. If the bid is to be awarded on a unit basis, the itemization of the units shall be shown on a separate attachment.

The contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS
(If applicable)

I, the undersigned bidder or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I C 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel products on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

The above bid is accepted this _____ day of _____, subject to the following conditions: _____
_____

Contracting Authority Members:

_____ _____
_____ _____
_____ _____

PART II

(For projects of $150,000 or more — IC 36-1-124)

Governmental Unit: _____

Bidder (Firm): _____

Date (month, day, year): _____

These statements to be submitted under oath by each bidder with and as a part of his bid. Attach additional pages for each section as needed.

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed for the period of one (1) year prior to the date of the current bid?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

2. What Public works projects are now in process of construction by your organization?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

3. Have you ever failed to complete any work awarded to you? _____ If so, where and why? _____

_____

_____

4. List references from private firms for which you have performed work.

_____

_____

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed work. (Examples could include a narrative of when you could begin work, complete the project, number of workers, etc. and any other information which you believe would enable the governmental unit to consider your bid.)

2. Please list the names and addresses of all subcontractors (i.e. persons or firms outside your own firm who have performed part of the work) that you have used on public works projects during the past five (5) years along with a brief description of the work done by each subcontractor.

3. If you intend to sublet any portion of the work, state the name and address of each subcontractor, equipment to be used by the subcontractor, and whether you will require a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval. Until the completion of the proposed project, you are under a continuing obligation to immediately notify the governmental unit in the event that you subsequently determine that you will use a subcontractor on the proposed project.

4. What equipment do you have available to use for the proposed project? Any equipment to be used by subcontractors may also be required to be listed by the governmental unit.

5. Have you entered into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? If not, please explain the rationale used which would corroborate the prices listed.

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

Attachment of bidder's financial statement is mandatory. Any bid submitted without said financial statement as required by statute shall thereby be rendered invalid. The financial statement provided hereunder to the governing

body awarding the contract must be specific enough in detail so that said governing body can make a proper determination of the bidder's capability for completing the project if awarded.

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to include anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

SECTION V OATH AND AFFIRMATION

I HEREBY AFFIRM UNDER THE PENALTIES FOR PERJURY THAT THE FACTS AND INFORMATION CONTAINED IN THE FOREGOING BID FOR PUBLIC WORKS ARE TRUE AND CORRECT.

Dated at _____ this _____ day of _____

_____
(Name of Organization)

By: _____

_____
(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____)
)ss
COUNTY OF _____)

Before me, a Notary Public, Personally appeared the above-named _____ and swore that the statements contained in the forgoing document are true and correct.

Subscribed and sworn to before me this _____ day of _____, _____.

_____
Notary Public

My Commission Expires: _____
County of Residence: _____

BID OF

_____

(Contractor)

_____

(Address)

FOR
PUBLIC WORKS PROJECTS
OF

_____
_____
_____
_____
_____
_____
_____

Filed: _____

Action Taken: _____
_____

SUPPLEMENT TO THE GENERAL CONDITIONS

FOR MINORITY AND WOMEN BUSINESS ENTERPRISE PROGRAM

Minority Business Enterprise (MBE) and Women Business Enterprise (WBE) Goals

It is a goal of the City of Evansville-Vanderburgh County ("Owner") to promote the utilization of MBEs and WBEs during and as part of each contract for the purchase of goods, supplies, services and construction work, in an effort to meet or exceed the participation goals established in the MBE/WBE Utilization Plan of 12% participation of MBEs and 7% participation by WBEs.

Each bidder shall identify, as part of its bid the MBE and WBE businesses that would perform work should the bid be accepted, a description of the work which each subcontractor/supplier would perform and the dollar amount of the work which each would perform. The City's Contract Compliance Consultant, as part of the Plan, shall actively promote the meaningful participation of MBE and WBE businesses, in the performance of the work by contractors.

PRE-CONSTRUCTION / BIDDING PHASE

Bidder Requirements:

Before and during the pre-construction and bidding phases of the Project and subject to the public construction and public procurement laws applicable to the Project, bidders shall actively promote meaningful participation of MBEs and WBEs in the Project, requiring them to:

1. Provide written notice of contracting opportunities to known MBEs and WBEs in sufficient time to allow them to participate. Bidder's must allow M/WBE's no fewer than ten (10) business days to respond to bid notice;

2. Contact and/or follow-up with MBEs and WBEs interested in participation. Prime Contractors who are:
   - Challenged with sourcing MBE/WBE subcontractors,
   - Have MBE/WBE goal deficiencies, or
   - Have MBE/WBE participation barriers

   are required to coordinate a meeting with the City of Evansville Contract Compliance Consultant and/or the City/County Purchasing Department. The meeting purpose will consist of a discussion and potential recommendations of appropriate action steps to achieve the MBE/WBE goals. This meeting must take place at least five (5) business days prior to the final bid submission. All information reported by contractors will be verified for accuracy.

   If a Purchasing Department Coordination meeting is not completed by the prime contractor, the contractor's bid will be considered non-responsive and will not be accepted for final submission.

In addition, the Participation Evaluation Worksheet (Form A) included in the bid package is required to be submitted with each bid.

3. Consider unbundling Bid Packages into economically feasible units to facilitate MBE and WBE participation. Unit prices shall be given for supplies and equipment;

4. Provide adequate information about plans, specifications and/or other contracting requirements to facilitate MBE and WBE participation;

5. Confer in good faith with interested MBE/WBEs, including the making of reasonable determinations as to their qualifications;

6. Provide information to MBE/WBEs regarding bonding and insurance**;**

7. All MBE and WBE certification must be in effect throughout the duration of the project;

8. Submit a Letter of Intent to Perform as a Subcontractor or Supplier (Form C) summarizing all subcontractor and supplier utilization, for each M/WBE subcontractor or supplier;

9. When the M/WBE program goal is not feasible because of the lack of availability of qualified minority or women business enterprises in a particular trade or field, Bidders shall submit in a sealed bid envelope a completed Application for Program Waiver (Form E), complete with full, verifiable documentation of bidder's efforts to locate and employ M/WBE for the project.

City/County ("Owner") Requirements:

Before and during the pre-construction and bidding phases of the Project and subject to the public construction and public procurement laws applicable to the Project, the Owner's Contract Compliance Consultant shall actively promote meaningful participation of MBEs and WBEs in the Project, by requiring Bidders to:

1. Inform interested bidders of the Plan, including the MBE and WBE goals and procedures applicable to the Project;

2. Organize and conduct pre-bid meetings to inform MBEs and WBEs of contracting opportunities and encourage all potential bidders to attend such meetings;

3. Advertise with respect to contracting opportunities in general circulation, trade and minority- focused media;

4. Utilize the services of available minority organizations, contractor's groups, state and local offices, etc., that have knowledge of available MBE/WBEs or the means to locate such MBE/WBEs;

5. Evaluate for each bid package the extent of MBE/WBE participation by the apparent low bidder, whether the proposed entities have been appropriately certified as MBE/WBEs, whether the apparent low bidder achieved applicable goals for the Project and, if not, the extent of good faith efforts made by such bidder to encourage the utilization of MBE/WBEs and whether there are valid reasons for the bidder's inability to achieve the stated goals; and

6. Advise the City of Evansville awarding department/Board whether, in the Contract Compliance Consultant's opinion, the apparent low bidder has achieved the stated MBE/WBE goals or demonstrated good faith efforts to achieve the goals and include this consideration in the overall recommendation as to whom the contract should be awarded.

CONSTRUCTION PHASE

Bidder Requirements:

If applicable, during the construction phase of a project, the Bidder shall, among other things:

1. Provide Contractor's Monthly M/WBE Report (Form D) to the Owner and the City's Contract Compliance Consultant with each pay request, as to the MBE/WBE participation for each contractor on the project as a whole; and

2. Consider the impact of change orders on MBE/WBE utilization. Every effort to maintain proposed M/WBE utilization percentages shall be made by Contractor when a change order is required within a project.

3. Submit copies of executed M/WBE subcontracts, purchase orders, requisitions, etc. to the Contract Compliance Consultant.

City/County ("Owner") Requirements:

If applicable, during the construction phase of a project, the Contract Compliance Consultant shall, among other things:

1. Obtain any additional documentation deemed necessary to demonstrate the good faith efforts of each contractor to achieve and maximize MBE/WBE participation goal levels;

2. Verify all submitted documents that each MBE/WBE as listed by each contractor is appropriately certified as either an MBE or WBE entity;

3. Determine the scope of work assigned to each MBE/WBE;

4. Calculate the percentage of participation for each MBE/WBE. Only where an exact amount to be contracted to M/WBE cannot be determined, the Bidder must indicate the minimum dollar amount that will be paid to the M/WBE firm (on the "Letter of Intent" Form C);

5. Determine the percentage of completion of MBE/WBE scope of work to date;

6. Evaluate the impact of change orders on MBE/WBE utilization. M/WBE's work total dollar amount should be the same percentage in the Change Order, for the same work;

7. Periodically, and at the specific request of the Owner, conduct reviews to verify:
    - The progress of payments made to MBE/WBEs and
    - Method of accounting for MBE/WBE participation

NON-COMPLIANCE

1. Failure to demonstrate good faith efforts to achieve the goal may constitute grounds for rejection of the bid.

2. The Owner may withhold payment on the Contract until satisfactory corrective measures are completed.

Bidders are advised that any contractor who knowingly or intentionally misrepresents the amount to be subcontracted to the M/WBE is in breach of contract and may suffer penalties pursuant to Indiana Code.

Form A

Participation Evaluation Worksheet

Department / Name of Project:

Work Type	Related to Bid Item No.	Work Description	Will Prime Contractor self-perform this Portion of the Work? Yes / No	Name of Contractor, Subcontractor, Leasing Agent, or Supplier Name	WBE/MBE Y/N	Date / Time of Contractor Reply	Project Percentage *	Project Selection Yes / No
(Group Evaluations by Bid Item, Work Type, and Work Description for Reviewer Clarity. Use Additional Sheets if necessary)								
				(Use Additional Sheets if Necessary)				

Work Type:		Labor, Equipment, or Supply				**Form to Be Submitted with the Bid**		
Bid Item No.:		See Contract Documents - For General Services, put N/A.						
Work Description:		Work task being evaluated for project inclusion						
Name:		Company Name Evaluated, including General Contractor						
Project Percentage:		Quoted MBE/WBE Sub Amount / Total Bid Amount						

*** Contractors are expected to actively pursue MBE/WBE Project Participation for all work in the amounts of 12% and 7% respectively. Contractors who do not anticipate meeting these project participation percentages are required to meet with either the City's Contract Compliance Officer or the Purchasing Department no later than (3) three business days prior to bid opening. Failure to schedule this meeting or meet the goals will be a factor considered when evaluating the responsiveness to the bid package.**

STATEMENT OF PROPOSED M/WBE UTILIZATION

(FORM B)

Bid Package _____

Will Bidder's firm be supplying all of the products/services to be purchased? Yes _____ No _____ OR In the case of a construction project will Bidder be doing all of the work with its own forces? Yes _____ No _____ If no, what percentage of work will Bidder self perform? _____

Is Bidder certified as a Minority/Women Business Enterprise (M/WBE)? Yes _____ No _____ If yes, which MBE _____ WBE _____

List below all proposed M/WBE Subcontractors and Suppliers to be used for the work. Total dollar amount and percentage must equal that on the Bid form. Clearly indicate in the Scope of Work column if the M/WBE will be a supplier only. Also, if M/WBE will contract with a Subcontractor or Bidder and not directly with the Bidder, indicate "Subcontractor of _____" or similar statement in the Scope of Work column. Use additional sheets if necessary.

M/WBE Company Name Address, Phone, Contact & Email	MBE or WBE	% of Bid	Dollar Amount	Scope of Work or Commodity to be Supplied	Base Bid Amount

Bidder's Company Name _____

Signature (of Corporate Officer) _____

Date _____

Name & Title (Print) _____

Total Dollar Amount $_____

Total MBE Participation $ _____

Total WBE Participation $ _____

Number of City / County Ordinance _____

LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR OR SUPPLIER

(FORM C)

Bid Package _____

I, _____, (Company Name of Bidder or Sub-Bidder) have entered into an agreement with the following Minority/Women-Owned Business Enterprise (M/WBE) to do the work indicated below. I agree that, if awarded a Contract by the Owner or a Subcontract by the Bidder for the referenced Bid Package, a subcontract and/or purchase order will be executed with this firm and a copy of the agreement will be provided to the Owner.

Name and Address of M/WBE	MBE or WBE	Goods or Supplies to be Provided	Minimum Contract Amount

Amount to be subcontracted by M/WBE to other M/WBE firms $_____

Amount to be subcontracted by M/WBE to non-M/WBE firms $_____

Is M/WBE a Supplier only? Yes _____ No _____

I understand that I will not be allowed to substitute or change M/WBE Subcontractors or Suppliers without the express prior approval of the Owner. Such approval shall in no way relieve my obligations pursuant to the M/WBE requirements and goals specified in the Bidding Documents.

Under penalty of perjury I declare that I have read the foregoing and the facts stated are true.

_____
Authorized Agent of Bidder or Sub-Bidder

_____
Printed Name and Title

_____
Date

_____
Authorized Agent of M/WBE Subcontractor/Supplier

_____
Printed Name & Title

_____
Date

_____
Phone Number, Fax Number & E-Mail

****

INSTRUCTIONS: All Letters of Intent are to be submitted by the Bidder with its Bid. A Letter of Intent is to be executed with all M/WBE Subcontractors and Suppliers listed by the Bidder on the Statement of Proposed M/WBE Utilization. Failure to submit this form with the Bid may result in the Bid being found to be non-responsive.

M/WBE UTILIZATION REPORT

(Submit With All Payment Requests)

(FORM D)

CONTRACTOR NAME:		**CONTRACT AMOUNT:**	
CONTACT NAME:		**PAYMENT PERIOD:**	thru
CONTACT EMAIL:		**SUBCONTRACTORS:**	$ -
PROJECT NAME:		**SUPPLIERS:**	$ -
PURCHASE ORDER NO:		**AMOUNT PAID THIS PERIOD:**	-

PRIMARY CONTRACTOR	MBE (Y/N)	WBE (Y/N)	DESCRIPTION OF WORK	INVOICED THRU DATE	CONTRACTOR AMOUNT	AMOUNT PAID THIS PERIOD	AMOUNT PAID TO DATE	% PAID TO DATE
					-	-		0.0%

SUBCONTRACTORS / SUPPLIERS	SUB / SUP	*VEN (Y/N)	MBE (Y/N)	WBE (Y/N)	DESCRIPTION OF WORK	INVOICED THRU DATE	SUBCONTRACTOR AMOUNT	AMOUNT PAID THIS PERIOD	AMOUNT PAID TO DATE	% PAID TO DATE
	Please Select									0.0%
	Please Select									0.0%
	Please Select									0.0%
	Please Select									0.0%
	Please Select									0.0%
	Please Select									0.0%
	Please Select									0.0%
	Please Select									0.0%
	Please Select									0.0%
	Please Select									0.0%
	Please Select									0.0%
						TOTALS	-	-	-	0.0%

Does the Contractor believe it will not achieve the stated participation goals? (Yes / No)

If Yes, please provide details: _____

I hereby affirm, under the penalties of perjury, that the information provided with this report is true and accurate. I acknowledge that the owner, or its designees, may verify any of the information provided.

Verified By: _____

Name (Printed): _____

*** All Subcontractors / Suppliers must register as a Vendor with the City of Evansville.**

MBE/WBE PARTICIPATION (based on Labor Costs)

	Subcontract Amount	% of Contract	Amount Paid this Period	Amount Paid to Date	% Paid of Contract
MBE	-	0.0%	-	-	0.0%
WBE	-	0.0%	-	-	0.0%
Totals:	-	0.0%	-	-	0.0%

Updated: 11/2018

MINORITY / WOMEN BUSINESS ENTERPRISE PARTICIPATION PLAN

APPLICATION FOR PROGRAM WAIVER
(FORM E)

Name of Project: _____

Department: _____

General Contractor Company Name: _____

Owner of Company: _____

Address(es) of Construction _____

This contract is subject to City of Evansville Municipal Code which encourages the utilization of local minority and women owned business enterprises. The contractor must demonstrate that a good faith effort was made to meet the MBE/WBE participation goals for this project. Should the contractor's efforts not produce the desired goal, this application for waiver must be completed and submitted with any other documentation of the good faith effort.

Contractors should indicate the name of the minority-owned or women-owned firm(s) contacted regarding this project; the contact name and phone number at the firm(s); the method of contact, date attempted, and results of that contact. The _____ (Department) and/or _____ (Sub-recipient- if any) reserve the right to accept, verify or deny any application for waiver from the contract goal; and the right to verify all information submitted, pursuant to City of Evansville Municipal Code.

When indicating a reason(s) for not using the MBE/WBE listed please refer to the following:

1. The price for doing the work by the MBE/WBE was greater than the price of another subcontractor
2. MBE/WBE did not respond to request for prices
3. The MBE/WBE responding to the request were not able to do the work requested
4. Other (explain)

List of MBE/WBE subcontractors contacted, but NOT utilized on this project:

MBE/WBE	Contact	Date &	Type of Attempt	Result

If additional room is necessary, please attach a separate page.

_____ _____

CONTRACTOR'S SIGNATURE **DATE**

CONTRACTOR'S ACKNOWLEDGMENT

The undersigned Contractor certifies under the penalties of perjury, and in accordance with I.C. § 5-16-13 *et seq.* and I.C. § 22-5-1.7-11.1 *et seq.* as follows:

1. The Contractor has enrolled in and will verify the work eligibility status of all newly hired employees through the E-Verify program so long as the E-Verify program is in existence. The Contractor does not and shall not knowingly employ an unauthorized alien.

2. The Contractor shall receive a certificate from each subcontractor of any tier on the project that, at the time of certification, the subcontractor does not knowingly employ or contract with an unauthorized alien and has enrolled and is participating in the E-Verify program.

3. If the Agreement is for $10,000 or more, Contractor has established an employee drug testing program in compliance with Evansville Municipal Code 3.95.020.

4. If the Agreement is for $300,000 or more, Contractor has attached a current certificate of qualification issued by the State of Indiana under I.C. § 4-13.6-4 or I.C. § 8-23-10.

5. If the Agreement is for $150,000 or more, Contractor shall provide a current certification as a Responsible Bidder in compliance with Evansville Municipal Code 3.95.040. This Code includes, among other requirements, evidence that the Contractor is in compliance with I.C. § 5-16-13-12 and its requirements pertaining to participation in apprenticeship and training programs applicable to the work to be performed on the public work project.

6. If the Agreement is for $150,000 or more, Contractor shall provide required forms related to Minority and/or Women Business Enterprise (MBE/WBE) Utilization Program in compliance with Evansville Municipal Code 3.90 Article II.

7. The Contractor acknowledges that discrimination or intimidation of any employee hired for the performance of work under this Agreement, by Contractors and subcontractors, on account of race, religion, color, sex, national origin or ancestry is prohibited under I.C. § 5-16-6-1.

On behalf of Contractor, I hereby acknowledge and certify under the penalties of perjury that the foregoing statements are true and correct to the best of my knowledge and belief.

CONTRACTOR:

Date: _____ By: _____

_____

(Printed Name and Title)

Company Name	DBA	UNSPSC Description	First Name	LastName	City	Email ID	Phone
Precision Aerial Services LLC	Precision Aerial Services LLC	Aerial cameras	John	Carter	Evansville	precisionaerialservicesllc@gmail.com	812/266-0760
ALK Development, LLC		Building and Construction and Maintena	Andrea	Kent	Indianapolis	andreakent01@gmail.com	317/447-2904
CGR, LLC	CGR, LLC	Building and Construction and Maintena	Carven	Thomas	Bloomington	carven.thomas@cgrservicesin.com	812/327-1222
Charles C. Brandt Construction	Charles C. Brandt Construction Co.	Building and Construction and Maintena	Lindsay	Fernandez	Indianapolis	LindsayFernandez@CCBrandt.com	317/375-1111
Davis & Associates, Inc.		Building and Construction and Maintena	Gary	Davis	Indianapolis	gary@davisassocindy.com	317-263-9947
G&L Corporation	G&L Corporation	Building and Construction and Maintena	Michael	Forester	Fort Wayne	mforester@g-lcorp.com	260/747-0541
Jewel Contracting LLC	Jewel Contracting LLC	Building and Construction and Maintena	Peri	Mason	South Bend	peri@jewelcontractingllc.com	574/400-9194
Lillian's Electrical Services, LLC	Lillian Electrical Services	Building and Construction and Maintena	Stevie	Tyus	Evansville	augusksngs@aol.com	812/449-2396
Lyles Construction Inc.		Building and Construction and Maintena	Wesley	Bowers	Salem	jennifer@lylesconstructioninc.com	812/620-9442
METICULOUS DESIGN + ARCHIT	METICULOUS DESIGN + ARCHITECTURE	Building and Construction and Maintena	Ramon	Morrison	INDIANAPOLIS	rmorrison@meticulousda.com	317/926-1820
Moellman Land Maintenance, LLC		Building and Construction and Maintena	Peggy	Moellman	Indianapolis	mlm4620@comcast.net	317/545-9421
MultiCraft Electric, LLC	Multicraft DEC	Building and Construction and Maintena	Brad	Thompson	Bloomington	brad@multicraftdec.com	812/336-5005
Odalis Contractors LLC	Odaliscontractorsllc	Building and Construction and Maintena	Candy	Paguada	Indianapolis	odaliscontractorsllc@gmail.com	312/498-9045
Odalis Contractors LLC	Odaliscontractorsllc	Building and Construction and Maintena	Candy	Paguada	Indianapolis	odaliscontractorsllc@gmail.com	312/498-9045
Sellers Masonry Inc	Sellers Masonry Inc	Building and Construction and Maintena	Casey	Sellers	Evansville	sellersinc@icloud.com	812/484-6356
Taylor Bros. Construction Co., Inc.		Building and Construction and Maintena	Thomas	Harmon	Columbus	tom.harmon@harmongroup.com	812-379-9547
3D Company, Inc.		Building site preparation services	Deanna	Case	Muncie	dcase@3dcompanyinc.com	765/288-3326
Fox Contractors Corp		Building site preparation services	Dallas	Day	Fort Wayne	dbrown@foxcontractors.com	260/747-7461
Fox Contractors Corp		Building site preparation services	Dallas	Day	Fort Wayne	dbrown@foxcontractors.com	260/747-7461
JIRK Swope Enterprises	4 S Construction	Building site preparation services	Legra	Swope	Newburgh	4scon.inc@gmail.com	812/774-8346
Lyles Construction Inc.		Building site preparation services	Wesley	Bowers	Salem	jennifer@lylesconstructioninc.com	812/620-9442
Owl Creek Farm LLC	Owl Creek Construction	Building site preparation services	Joann	Zeller	Evansville	owlcreekfarmin@gmail.com	812/550-0381
PMG Tree Care & Landscape C	PMG Tree Care & Landscape Company, INC	Building site preparation services	Brant	Flores	Evansville	brant@pmglandscaping.com	812/867-3900
Ramon Excavating		Building site preparation services	Tom	Ramon	Bloomington	ramontom@yahoo.com	812/327-6069
B & E Painting Inc	B & E Painting Inc	Commercial painting service	Sherry	Wagoner	Indianapolis	sherry@b-epainting.com	317/440-6633
Connor Fine Painting Inc.	Connor Painting	Commercial painting service	Janmarie	Connor	Indianapolis	jconnor@connorpainting.com	317/423-0000
Connor Fine Painting Inc.	Connor Painting	Commercial painting service	Janmarie	Connor	Indianapolis	jconnor@connorpainting.com	317/423-0000
Dawson Management Group L	DBA FACILITY MAINTENANCE USA	Commercial painting service	William	Dawson	Indianapolis	bryant@fmusa.biz	317/782-1800
Diversified Hydrant & Equipme	Diversified Hydrant & Equipment Services	Commercial painting service	Arthur	Borel	INDIANAPOLIS	diversifiedhydrant@gmail.com	317/443-9197
Grant Professional Painting Inc.		Commercial painting service	William	Grant	Evansville	painting@grantpropaint.com	812/303-1250
Harvest Douglass Hospitality LL	TMC CONTRACTORS	Commercial painting service	Kevin	Thomas	Indianapolis	tmccontractors@comcast.net	888/862-9190
Heartland Construction Group,	The Heartland Builders	Commercial painting service	Manleen	Dhillon	Indianapolis	info@theheartlandbuilders.com	317/420-2455
Hunn Heritage, LLC	Hunn Heritaage LLC	Commercial painting service	Arnold	Hunn	Indianapolis	hheritagellc@gmail.com	918302559
Indiana's Elite Cleaning LLC		Commercial painting service	Alejandro	Saucedo	South Bend	indianaselitecleaning@outlook.com	219/819-1681
Jewel Contracting LLC	Jewel Contracting LLC	Commercial painting service	Peri	Mason	South Bend	peri@jewelcontractingllc.com	574/400-9194
Morningside Group, Inc	Morningside Group, Inc	Commercial painting service	Rogelio	Mancillas	Indianapolis	r.alvarez@morningside-group.com	317/405-8037
New Life Projects, LLC	New Life Projects, LLC	Commercial painting service	Marcus	Holder	Indianapolis	newlifeprojects333@gmail.com	317/500-1074
Norman Painting, Inc.	NPI	Commercial painting service	Diane	Norman	Evansville	diane@normanpainting.net	812.421.1674
Paint Pro Painting LLC	Paint Pro Painting LLC	Commercial painting service	Kimberly	Barr	Columbus	ContactPaintProLLC@gmail.com	812/391-5295
Professional Grade Services LLC	Professional Grade Services	Commercial painting service	Damien	Blain	Indianapolis	dblain@pgsindy.com	317.688.8898
Reece Rebholz Co., Inc.		Commercial painting service	Julienne	Rebholz	Indianapolis	julie@rebholzinc.com	317/359-0633
We Care Cleaning Services, LLC	We Care Cleaning Services, LLC	Commercial painting service	Natalie	Lott	Indianapolis	natalie@wecarecleaningsvcs.com	317/559-4949
Agile Distribution, LLC		Concrete and cement and plaster	Robert	Wood	Carmel	todd.wood@agiledistribution.co	317/989-6836
Civil Supply	Civil Supply	Concrete and cement and plaster	Shelley	West	Indianapolis	swest@civilsupply.com	812/550-0801
Grant Professional Painting Inc.		Concrete and cement and plaster	William	Grant	Evansville	painting@grantpropaint.com	812/303-1250
3D Company, Inc.		Concrete Installation and Repair Service	Deanna	Case	Muncie	dcase@3dcompanyinc.com	765/288-3326
A-KAT General Contractors, LLC	A-KAT General Contractors, LLC	Concrete Installation and Repair Service	Roderick	Lane, Sr.	Indinanpolis	a-kat@sbcglobal.net	317/299-9700
All American Express Solutions	All American Express	Concrete Installation and Repair Service	Rusty	Wheeler	Indianapolis	ghannah@all-american-solutions.com	317/494-2231
BHR, LLC	BHR LLC	Concrete Installation and Repair Service	Brent	Jones	Princeton	bjoneslocal181@gmail.com	812/677-2685
Conco Spray Solutions, LLC.	Conco Spray Solutions, LLC.	Concrete Installation and Repair Service	Jennifer	Hoop	Indianapolis	jhoop@concospray.com	317/428-6543
Cornerstone Construction Grou	Cornerstone Construction Group LLC	Concrete Installation and Repair Service	Nick	Lunn	Indianapolis	nick@cornerstone-constructiongroup.	317/203-0252
Double W Construction		Concrete Installation and Repair Service	Gary	Wininger	French Lick	garydoublew@bluemarble.net	812-936-2656
Earl C. Rodgers & Associates, In	Earl C. Rodgers & Associates, Inc.	Concrete Installation and Repair Service	Linda	Shaw	West Terre Ha	lshaw@ecrodgers.com	812/533-2161
Edward & Jones Concrete Inc		Concrete Installation and Repair Service	Clayton	Merriweather	Indianapolis	clayton@ejconcrete.com	317/284-1117
General Restoration & Constru	General Restoration & Construction LLC	Concrete Installation and Repair Service	Rene	Zamudio	Indianapolis	grcindiana@gmail.com	317/339-9108
H & H Construction Services, Inc.		Concrete Installation and Repair Service	Janet	Haste	Indianapolis	HHConstJanet@aol.com	317/375-0114
Indiana Reclamation & Excavat	IRE,Inc.	Concrete Installation and Repair Service	Margaret	DeCrane	Indianapolis	mdecrane@inrecex.com	317/926-3770
JIRK Swope Enterprises	4 S Construction	Concrete Installation and Repair Service	Legra	Swope	Newburgh	4scon.inc@gmail.com	812/774-8346
Lyles Construction Inc.		Concrete Installation and Repair Service	Wesley	Bowers	Salem	jennifer@lylesconstructioninc.com	812/620-9442
McCray & Sons INC	McCray & Sons INC	Concrete Installation and Repair Service	Heather	McCray	Columbus	hmccray1969@gmail.com	812/350-0675
PKS Construction Inc		Concrete Installation and Repair Service	Neeta	Pulliam	Indianapolis	info@pks-construction.com	317/354-1070
PKS Construction Inc		Concrete Installation and Repair Service	Neeta	Pulliam	Indianapolis	info@pks-construction.com	317/354-1070
R. Chavez Construction Company Inc.		Concrete Installation and Repair Service	Roberto	Chavez	Indianapolis	sharon@rchavezconstruction.com	317/363-9635
Renascent, Inc.	Construction Waste	Concrete Installation and Repair Service	Linda	Campbell	Indianapolis	corporate@renascentinc.com	317/533-7300
Rosabell Concrete LLC		Concrete Installation and Repair Service	Brittney	Maradiaga Hern	Indianapolis	brittjudd123@gmail.com	317/427-8024
Sellers Masonry Inc	Sellers Masonry Inc	Concrete Installation and Repair Service	Casey	Sellers	Evansville	sellersinc@icloud.com	812/484-6356
CDI, Inc.	CDI, Inc.	Concrete slab	Rick	Harruff	Terre Haute	cjmonroe@cdiinc.net	812/232-3327
Cornerstone Construction Grou	Cornerstone Construction Group LLC	Concrete slab	Nick	Lunn	Indianapolis	nick@cornerstone-constructiongroup.	317/203-0252
Harvest Douglass Hospitality LL	TMC CONTRACTORS	Concrete slab	Kevin	Thomas	Indianapolis	tmccontractors@comcast.net	888/862-9190
J. R. Kelly Company, Inc.		Concrete slab	Elizabeth	Spencer	Lafayette	betsy@jrkellyco.com	765-772-3991
Owl Creek Farm LLC	Owl Creek Construction	Concrete slab	Joann	Zeller	Evansville	owlcreekfarmin@gmail.com	812/550-0381
PKS Construction Inc		Concrete slab	Neeta	Pulliam	Indianapolis	info@pks-construction.com	317/354-1070
PKS Construction Inc		Concrete slab	Neeta	Pulliam	Indianapolis	info@pks-construction.com	317/354-1070
Renascent, Inc.	Construction Waste	Concrete slab	Linda	Campbell	Indianapolis	corporate@renascentinc.com	317/533-7300
Rosabell Concrete LLC		Concrete slab	Brittney	Maradiaga Hern	Indianapolis	brittjudd123@gmail.com	317/427-8024
Whitehead Construction Inc	Whitehead Construction Inc	Concrete slab	Constance	Kline	Fort Wayne	constance@whiteheadconstruction.bi	260/999-4156
1st Class Logistics LLC	1st Class Logistics LLC	Delivery trucks	Bernard	Coutee	South Bend	1stclasslogistics2013@gmail.com	574/993-0071
812 Runnerz LLC	812 Runnerz LLC	Delivery trucks	Michael	Robertson	Evansville	eight12runnerzllc@yahoo.com	812/598-4771
DNF COMMUNITY LOGISTICS LLC		Delivery trucks	DONALD	THOMPSON	INDIANAPOLIS	donald.thompson@dnfcommunitylogi	317/340-2375
K & I Transports, LLC	K & I Transports, LLC	Delivery trucks	Rodney	Davis	Indianapolis	kanditransports@gmail.com	317/514-8589
Ripple Distribution, LLC	Ripple Distribution, LLC	Delivery trucks	Jaimee	Diller	Fort Wayne	jaimeediller@icloud.com	770/328-6864
ANDERS LANDWORKS, LLC	ANDERS LANDWORKS, LLC	Demolition services	Casandra	Anders	Fort Branch	casi@rosemeyeragency.com	812/304-0054
C & R Construction and Consul	C & R Construction	Demolition services	Lacy	Crosier	Corydon	lcrosier@crconstruction.info	812/738-4493
C&A Contracting LLC	C&A Contracting LLC	Demolition services	Cory	Crumpton	Indianapolis	cacontracting317@gmail.com	317/561-0188
DWD Company LLC	DWD Company LLC	Demolition services	DaNae	Spangler	Indianapolis	DaNae@dwdcompany.com	317/339-4303
Gable Property Solutions LLC		Demolition services	Ashley	Hair	Indianapolis	gablepropertysolutions@gmail.com	317445-7058
Gable Property Solutions LLC		Demolition services	Ashley	Hair	Indianapolis	gablepropertysolutions@gmail.com	317445-7058
Jewel Contracting LLC	Jewel Contracting LLC	Demolition services	Peri	Mason	South Bend	peri@jewelcontractingllc.com	574/400-9194
Jordan's Home Remodeling		Demolition services	Jordan	Bates	South Bend	jordanshomeremodelingllc@gmail.com	574310-1460
Kennedy Expressline Inc		Demolition services	Marcus	Northern	South Bend	kennedyexpressline@yahoo.com	574/876-8881
Kennedy Expressline Inc		Demolition services	Marcus	Northern	South Bend	kennedyexpressline@yahoo.com	574/876-8881
On it Cleaning LLC	On It Construction Services	Demolition services	Andrew	Walker II	Indianapolis	info@onitconstructionservices.com	773/729-7352
Owl Creek Farm LLC	Owl Creek Construction	Demolition services	Joann	Zeller	Evansville	owlcreekfarmin@gmail.com	812/550-0381
PKS Construction Inc		Demolition services	Neeta	Pulliam	Indianapolis	info@pks-construction.com	317/354-1070
PKS Construction Inc		Demolition services	Neeta	Pulliam	Indianapolis	info@pks-construction.com	317/354-1070
Precision Mechanical Contractors, Inc.		Demolition services	Nelson	Jordan	Fort Wayne	njordan@precisionmechanical.com	260/482-4600
Professional Grade Services LLC	Professional Grade Services	Demolition services	Damien	Blain	Indianapolis	dblain@pgsindy.com	317.688.8898
Re-Creation by Renovation	Re-Creation by Renovation	Demolition services	Eles	Shurn III	South Bend	shurneman@yahoo.com	574/876-8861

Renascent, Inc.	Construction Waste	Demolition services	Linda	Campbell	Indianapolis	corporate@renascentinc.com	317/533-7300
Ritschard Bros., Inc.	Ritschard Bros., Inc.	Demolition services	Rachelle	Dolniak	South Bend	rit1204@datacruz.com	574/288-4777
Variety Choice Services LLC	Variety Choice Services	Demolition services	Tamara	Pinkney	South Bend	varietychoiceservices@gmail.com	574/406-3131
Zinc Contractors, LLC	Zinc Contractors LLC	Demolition services	Nathan	Zaugg	Indianapolis	zinccontractorsllc@gmail.com	317/762-9822
ANDERS LANDWORKS, LLC	ANDERS LANDWORKS, LLC	Digging Services	Casandra	Anders	Fort Branch	casi@rosemeyeragency.com	812/304-0054
Core Bore Indiana, LLC	Core Bore Indiana, LLC	Digging Services	Cami	Bowling	South Bend	camibowling@coreborein.com	269/262-2906
H & H Construction Services, Inc.		Digging Services	Janet	Haste	Indianapolis	HHConstJanet@aol.com	317/375-0114
Liggon, Inc.	Liggon Trucking	Digging Services	Keith	White	Evansville	vgibson@liggoninc.com	812/437-3311
Renascent, Inc.	Construction Waste	Digging services	Linda	Campbell	Indianapolis	corporate@renascentinc.com	317/533-7300
US HYDROVAC INC.	US HYDROVAC INC.	Digging Services	Kuldip	Panchal	INDIANAPOLIS	apanchal@ushydrovac.com	317/397-7706
1st Class Logistics LLC	1st Class Logistics LLC	Dump trucks	Bernard	Coutee	South Bend	1stclasslogistics2013@gmail.com	574/993-0071
Aggrandize Solution LLC		Dump trucks	Elisha	Drake	Indianapolis	ed@aggrandizesolution.com	317213-0974
Aggrandize Solution LLC		Dump trucks	Elisha	Drake	Indianapolis	ed@aggrandizesolution.com	317213-0974
All American Express Solutions	All American Express	Dump trucks	Rusty	Wheeler	Indianapolis	ghannah@all-american-solutions.com	317/494-2231
B FIRST LOGISTICS INC.	B FIRST LOGISTICS INC.	Dump trucks	Ashley	Burse	INDIANAPOLIS	INFO@BFIRSTLOGISTICS.COM	317/316-6333
B FIRST LOGISTICS INC.	B FIRST LOGISTICS INC.	Dump trucks	Ashley	Burse	INDIANAPOLIS	INFO@BFIRSTLOGISTICS.COM	317/316-6333
C & R Construction and Consul	C & R Construction	Dump trucks	Lacy	Crosier	Corydon	lcrosier@crconstruction.info	812/738-4493
Coffman's Trucking and Transp	Coffman's Trucking and Transporting inc	Dump trucks	Randy	Coffman	CORYDON	coffmanstandtinc@gmail.com	812/968-5098
Columbus Transport, Inc.		Dump trucks	Betty	Finke	Columbus	bfinke.ctran@sbcglobal.net	812-376-0532
Conchita.Com, LLC	CONCHITA.COM,LLC	Dump trucks	Emanual	Newman	South Bend	e.t.newman5656@gmail.com	330/951-5145
DBISP, LLC		Dump trucks	John	Miller	Indianapolis	john.m.miller@dbisplic.com	317/222-1671
Demond Henry Trucking LLC	Demond Henry Trucking LLC	Dump trucks	Demond	Henry	Indianapolis	henrytrucking@att.net	317/698-8473
K & I Transports, LLC	K & I Transports, LLC	Dump trucks	Rodney	Davis	Indianapolis	kanditransports@gmail.com	317/514-8589
Kennedy Expressline Inc		Dump trucks	Marcus	Northern	South Bend	kennedyexpressline@yahoo.com	574/876-8881
Kennedy Expressline Inc		Dump trucks	Marcus	Northern	South Bend	kennedyexpressline@yahoo.com	574/876-8881
Kong Xpress LLC	Kong Xpress LLC	Dump trucks	Jonnathon	Booth	CLARKSVILLE	Kongxpress@gmail.com	812/557-5817
M&M Signing Agents, LLC	MMSA Logistics	Dump trucks	Regina	Marshall	Indianapolis	rrmarsha34@gmail.com	317/296-4266
M&M Signing Agents, LLC	MMSA Logistics	Dump trucks	Regina	Marshall	Indianapolis	rrmarsha34@gmail.com	317/296-4266
Powell & Sons Trucking, LLC		Dump trucks	DeAndre	Powell	Fort Wayne	deandre@powellandsonstrucking.com	260/515-6950
Rare Earth Trucking LLC		Dump trucks	David	Smith	South Bend	rareearth14@gmail.com	574276-4982
Rare Earth Trucking LLC		Dump trucks	David	Smith	South Bend	rareearth14@gmail.com	574276-4982
Re-Creation by Renovation	Re-Creation by Renovation	Dump trucks	Eles	Shurn III	South Bend	shurneman@yahoo.com	574/876-8861
Renascent, Inc.	Construction Waste	Dump trucks	Linda	Campbell	Indianapolis	corporate@renascentinc.com	317/533-7300
Ronnie Lopp Trucking LLC		Dump trucks	Ronnie	Lopp	Corydon	Ronaldlopp@gmail.com	812/267-0485
Simms & Sons LLC		Dump trucks	Dejuan	Simms	Evansville	Dejuan@Simmsandsons.com	812/909-6025
Taylor Maid Trucking LLC	Taylor Maid Trucking LLC	Dump trucks	Ricky	Taylor	South Bend	rickyataylor19@gmail.com	269/332-4307
Taylor Maid Trucking LLC	Taylor Maid Trucking LLC	Dump trucks	Ricky	Taylor	South Bend	rickyataylor19@gmail.com	269/332-4307
Victory Trucking & Supply, Inc.		Dump trucks	Becki	Fredrick	Auburn	beckif@victorytrucking.com	260/357-3911
WELLS TRUCKING A DIVISION O	WELLS TRUCKING A DIVISION OF WELLS AND A	Dump trucks	MACHEO	WELLS	INDIANAPOLIS	wellstransport@gmail.com	317/250-2616
Laura Kopetsky Tri-Ax Inc		Earth and stone	Amie	Martens	Indianapolis	amie@laurakopetsky.com	317-788-7825
Liggon, Inc.	Liggon Trucking	Earth and stone	Keith	White	Evansville	vgibson@liggoninc.com	812/437-3311
Renascent, Inc.	Construction Waste	Earth and stone	Linda	Campbell	Indianapolis	corporate@renascentinc.com	317/533-7300
Thompson Distribution Compa	Mutual Pipe Supply	Earth and stone	John	Thompson	Indianapolis	normat@thomdist.com	317-923-2581
ANDERS LANDWORKS, LLC	ANDERS LANDWORKS, LLC	Earthmoving service	Casandra	Anders	Fort Branch	casi@rosemeyeragency.com	812/304-0054
DWD Company LLC	DWD Company LLC	Earthmoving service	DaNae	Spangler	Indianapolis	DaNae@dwdcompany.com	317/339-4303
Fox Contractors Corp		Earthmoving service	Dallas	Day	Fort Wayne	dbrown@foxcontractors.com	260/747-7461
Fox Contractors Corp		Earthmoving service	Dallas	Day	Fort Wayne	dbrown@foxcontractors.com	260/747-7461
Laura Kopetsky Tri-Ax Inc		Earthmoving service	Amie	Martens	Indianapolis	amie@laurakopetsky.com	317-788-7825
Liggon, Inc.	Liggon Trucking	Earthmoving service	Keith	White	Evansville	vgibson@liggoninc.com	812/437-3311
US HYDROVAC INC.	US HYDROVAC INC.	Earthmoving service	Kuldip	Panchal	INDIANAPOLIS	apanchal@ushydrovac.com	317/397-7706
Envirokinetics, Inc.		Environmental planning	James	Mosley	Newburgh	mosleyjas@aol.com	812/858-9043
RG Collaborative, LLC		Environmental planning	Sanford	Garner	Indianapolis	sanford@rgcollaborative.com	317/506-4411
The Etica Group		Environmental planning	Jessica	Nickloy	Indianapolis	jnickloy@eticagroup.com	317/268-1821
Envirokinetics, Inc.		Environmental protection	James	Mosley	Newburgh	mosleyjas@aol.com	812/858-9043
VET Environmental Engineering	VET Environmental Engineering, LLC	Environmental protection	Sara	Hamidovic	Bloomington	sara@vet-env.com	812/822-0400
C & R Construction and Consul	C & R Construction	Heavy construction services	Lacy	Crosier	Corydon	lcrosier@crconstruction.info	812/738-4493
DWD Company LLC	DWD Company LLC	Heavy construction services	DaNae	Spangler	Indianapolis	DaNae@dwdcompany.com	317/339-4303
S.A.M.M Trucking & Excavating	S.A.M.M Trucking & Excavating Inc.	Heavy construction services	Stephen	Harris	Newburgh	sammtrucking@yahoo.com	812/459-4802
PMG Tree Care & Landscape C	PMG Tree Care & Landscape Company, INC	Land and soil preparation	Brant	Flores	Evansville	brant@pmglandscaping.com	812/867-3900
Renascent, Inc.	Construction Waste	Land and soil preparation	Linda	Campbell	Indianapolis	corporate@renascentinc.com	317/533-7300
4 Seasons Landscaping LLC	WHITE PICKET FLOWERS	Landscaping services	Jessica	Watts	French Lick	watts@bluemarble.net	812371-8012
AAA Indy Landscaping	AAA Indy Landscaping	Landscaping services	Richard	Smith	Indianapolis	vsmith45@sbcglobal.net	317/450-0227
C.A. Fulkerson, LLC.		Landscaping services	Carol	Fulkerson	Corydon	cafulkersonllc@aol.com	812/952-1777
CAS Environmental Services LLC		Landscaping services	Craig	Slaughter	Vincennes	cslau@casenviron.com	281/620-8476
Context, LLC	Context Design	Landscaping services	Alyssa	Prazeau	Indianapolis	aprazeau@context-design.com	317/485-6900
Dalpon Lawn Care LLC	Dalpon Lawn Care LLC	Landscaping services	Damian	Pondal	Indianapolis	damian@dalpon.com	833/247-9269
Farris Landscaping LLC	n/a	Landscaping services	Pamela	Renner	Terre Haute	pfarris84@gmail.com	812/208-3757
JB Landscape, LLC	Augustine and White Landscape Co	Landscaping services	Brittany	White	Fort Wayne	jblandscape21@yahoo.com	260710-5492
Me and My Diddy Lawn Care LL	Me and My Diddy, LLC	Landscaping services	Paul	Smith	Indianapolis	meandmydiddylawncare@hotmail.co	317/488-7761
Moellman Land Maintenance, LLC		Landscaping services	Peggy	Moellman	Indianapolis	mlm4620@comcast.net	317/545-9421
Morales Group Inc.		Landscaping services	Tiffany	Hanson	Indianapolis	thanson@moralesgroup.net	765/437-1142
Odalis Contractors LLC	Odaliscontractorsllc	Landscaping services	Candy	Paguada	Indianapolis	odaliscontractorsllc@gmail.com	312/498-9045
Odalis Contractors LLC	Odaliscontractorsllc	Landscaping services	Candy	Paguada	Indianapolis	odaliscontractorsllc@gmail.com	312/498-9045
PMG Tree Care & Landscape C	PMG Tree Care & Landscape Company, INC	Landscaping services	Brant	Flores	Evansville	brant@pmglandscaping.com	812/867-3900
Professional Grade Services LLC	Professional Grade Services	Landscaping services	Damien	Blain	Indianapolis	dblain@pgsindy.com	317.688.8898
Reed Contracting Group, LLC		Landscaping services	Micah	Reed	Clarksville	micah.reed@reedcogroup.us	502/338-0424
Strong Hands Service Lawn Car	Strong Hands Services	Landscaping services	Theaottis	Garrett	indianapolis	stronghandsservices@gmail.com	317/495-0033
The Green Gang		Landscaping services	Jennie	McKee	Indianapolis	jmckee@comcast.net	317/257-3000
Dalpon Lawn Care LLC	Dalpon Lawn Care LLC	Lawn care services	Damian	Pondal	Indianapolis	damian@dalpon.com	833/247-9269
Farris Landscaping LLC	n/a	Lawn care services	Pamela	Renner	Terre Haute	pfarris84@gmail.com	812/208-3757
Jae's Lawncare LLC		Lawn care services	Javien	Langley	Evansville	javienlangley@gmail.com	812/456-6935
Professional Grade Services LLC	Professional Grade Services	Lawn care services	Damien	Blain	Indianapolis	dblain@pgsindy.com	317.688.8898
Strong Hands Service Lawn Car	Strong Hands Services	Lawn care services	Theaottis	Garrett	indianapolis	stronghandsservices@gmail.com	317/495-0033
Hunn Heritage, LLC	Hunn Heritaage LLC	Lighting installation services	Arnold	Hunn	Indianapolis	hheritagellc@gmail.com	918302559
Oxbow Electric LLC		Lighting installation services	Ellen	Topper	Evansville	oxbowelectric@gmail.com	812/431-8988
Professional Grade Services LLC	Professional Grade Services	Lighting installation services	Damien	Blain	Indianapolis	dblain@pgsindy.com	317.688.8898
TC Electric Inc	TC Electric Inc	Lighting installation services	Tina	Eason	Indianapolis	tina@tcelectric.us	317/313-4768
ZACKERY GROUP LLC	ZACKERY GROUP LLC	Lighting installation services	MARK	ZACKERY III	INDIANAPOLIS	MZACKERY@ZACKERYGROUP.COM	317/716-5257
1st Class Logistics LLC	1st Class Logistics LLC	Local area trucking services	Bernard	Coutee	South Bend	1stclasslogistics2013@gmail.com	574/993-0071
A3P Logistics Group LLC		Local area trucking services	PETER	MARIGA	Indianapolis	peter@a3plogistics.com	317214-2187
Aggrandize Solution LLC		Local area trucking services	Elisha	Drake	Indianapolis	ed@aggrandizesolution.com	317213-0974
Aggrandize Solution LLC		Local area trucking services	Elisha	Drake	Indianapolis	ed@aggrandizesolution.com	317213-0974
Ballew Moving LLC	Ballew Moving LLC	Local area trucking services	Nilijah	Ballew	Indianapolis	info@ballewmoving.com	513/295-9831
BHR, LLC	BHR LLC	Local area trucking services	Brent	Jones	Princeton	bjoneslocal181@gmail.com	812/677-2685
Bibbs Hauling LLC		Local area trucking services	Richard	Bibbs	Indianapolis	info@bibbshauling.com	317/744-9980
CBK Enterprises, Inc		Local area trucking services	Krista	Lee	Fort Wayne	kbay10@aol.com	260/312-3397
CJ'S Inc.	CJ'S Inc.	Local area trucking services	Cathy Jo	Houston	Indianapolis	cjs.inc2021@gmail.com	317/822-3477
CMG Trucking, Inc.		Local area trucking services	Summer	McIntyre	Indianapolis	summer@cmgtrucking.com	317/430-3106
CMG Trucking, Inc.		Local area trucking services	Summer	McIntyre	Indianapolis	summer@cmgtrucking.com	317/430-3106

Coffman's Trucking and Transp	Coffman's Trucking and Transporting inc	Local area trucking services	Randy	Coffman	CORYDON	coffmanstandtinc@gmail.com	812/968-5098
Columbus Transport, Inc.		Local area trucking services	Betty	Finke	Columbus	bfinke.ctran@sbcglobal.net	812-376-0532
Conchita.Com, LLC	CONCHITA.COM,LLC	Local area trucking services	Emanual	Newman	South Bend	e.t.newman5656@gmail.com	330/951-5145
DBISP, LLC		Local area trucking services	John	Miller	Indianapolis	john.m.miller@dbisplic.com	317/222-1671
DWD Company LLC	DWD Company LLC	Local area trucking services	DaNae	Spangler	Indianapolis	DaNae@dwdcompany.com	317/339-4303
Eastside Trucking, Co. Inc.		Local area trucking services	Darrell	Rhodes	Indianapolis	wetruck@eastsidetrucking.com	317-283-6774
EKG Trucking LLC	EKG Trucking LLC	Local area trucking services	Gloria	Simion	Indianapolis	ekgtrucking@yahoo.com	317/384-5157
EKG Trucking LLC	EKG Trucking LLC	Local area trucking services	Gloria	Simion	Indianapolis	ekgtrucking@yahoo.com	317/384-5157
Global Trucking INC	Global Trucking INC	Local area trucking services	Kevin L	Harris	Newburgh	kharris@globalagencyllc.com	812/483-5953
Go-Ko, Inc	Go-Ko, Inc	Local area trucking services	Linda	Kopetsky	Indianapolis	admin@gokoinc.com	317/787-4285
Harvest Douglass Hospitality LL	TMC CONTRACTORS	Local area trucking services	Kevin	Thomas	Indianapolis	tmccontractors@comcast.net	888/862-9190
JDM Hauling		Local area trucking services	James	Grady	Clarksville	callgradyforaride@gmail.com	812/914-0695
K & I Transports, LLC	K & I Transports, LLC	Local area trucking services	Rodney	Davis	Indianapolis	kanditransports@gmail.com	317/514-8589
Kennedy Expressline Inc		Local area trucking services	Marcus	Northern	South Bend	kennedyexpressline@yahoo.com	574/876-8881
Kennedy Expressline Inc		Local area trucking services	Marcus	Northern	South Bend	kennedyexpressline@yahoo.com	574/876-8881
Laura Kopetsky Tri-Ax Inc		Local area trucking services	Amie	Martens	Indianapolis	amie@laurakopetsky.com	317-788-7825
Law Logistics LLC		Local area trucking services	Charles	Law	Fort Wayne	lawlogistics848@gmail.com	260/417-7233
Liggon, Inc.	Liggon Trucking	Local area trucking services	Keith	White	Evansville	vgibson@liggoninc.com	812/437-3311
Littleton and Sons Sand and Su	Littleton and Sons Sand and Supply	Local area trucking services	Dawn	Littleton	Indianapolis	dawn@llbulktrans.com	317/889-1717
M&M Signing Agents, LLC	MMSA Logistics	Local area trucking services	Regina	Marshall	Indianapolis	rrmarsha34@gmail.com	317/296-4266
M&M Signing Agents, LLC	MMSA Logistics	Local area trucking services	Regina	Marshall	Indianapolis	rrmarsha34@gmail.com	317/296-4266
MET Construction, LLC	MET Construction, LLC	Local area trucking services	Tonia	Miller, MBA	Indianapois	tonia.miller@metconstructionllc.com	860/268-7572
MET Construction, LLC	MET Construction, LLC	Local area trucking services	Tonia	Miller, MBA	Indianapois	tonia.miller@metconstructionllc.com	860/268-7572
Montgomery Trucking Inc., of I	Montgomery Trucking Inc., of Indiana	Local area trucking services	Karen	Montgomery	Fort Wayne	karen.mti@hotmail.com	260/312-2632
MPS Traffic Management Solut	Multiple Professional Solutions	Local area trucking services	Mario	Wilson	Indianapolis	MPSTOWING@YMAIL.COM	317/476-7327
Nash & Son's Trucking Compan	Nash and Sons Trucking, Inc.	Local area trucking services	Staci	Nash	Muncie	stacinash@nashandsonstrucking.org	765-281-0424
Nubian Transport Managemen	Nubian Construction Group	Local area trucking services	Deborah	Oatts	Indianapolis	doatts@nubianconstructiongroup.com	317/339-4423
Nubian Transport Managemen	Nubian Construction Group	Local area trucking services	Deborah	Oatts	Indianapolis	doatts@nubianconstructiongroup.com	317/339-4423
Oatts Trucking, Inc.		Local area trucking services	Nathan	Oatts	Indianapolis	nicole@oattstrucking.com	317/545-7006
Payne III Enterprise LLC	DBA JLP LOGISTICS	Local area trucking services	Timika	Payne	Indianapolis	t.payne@jlplogistics.com	317/709-4599
Payne III Enterprise LLC	DBA JLP LOGISTICS	Local area trucking services	Timika	Payne	Indianapolis	t.payne@jlplogistics.com	317/709-4599
Rare Earth Trucking LLC		Local area trucking services	David	Smith	South Bend	rareearth14@gmail.com	574276-4982
Rare Earth Trucking LLC		Local area trucking services	David	Smith	South Bend	rareearth14@gmail.com	574276-4982
Re-Creation by Renovation	Re-Creation by Renovation	Local area trucking services	Eles	Shurn III	South Bend	shurneman@yahoo.com	574/876-8861
Reborn ChangedWithin LLC	RBC TRUCKING	Local area trucking services	charlie	buchanan	INDIANAPOLIS	SME.CC22@YAHOO.COM	317529-3943
RJM Logistics, Inc.		Local area trucking services	John	Boone	Indianapolis	johnboone@rjmlogistics.com	317/803-2369
S & J Trucking LLC	S & J Trucking LLC	Local area trucking services	Keith	Ragsdale	Indianapolis	sjtrucking25@gmail.com	317406-1995
S.A.M.M Trucking & Excavating	S.A.M.M Trucking & Excavating Inc.	Local area trucking services	Stephen	Harris	Newburgh	sammtrucking@yahoo.com	812/459-4802
Semper Fi Residential Solutions	Semper Fi Residential Solutions LLC	Local area trucking services	Andrew	Guth	Evansville	semperfirs@gmail.com	812/454-2461
Southpaw Logistics, LLC	Southpaw Logistics, LLC	Local area trucking services	TYROME	JONES	SOUTH BEND	Southpawlogistics14@gmail.com	574/302-7355
SpellBound Logistics LLC	3D EXPRESS TRUCKING	Local area trucking services	Duwan	Spells	Indianapolis	dlspells01@gmail.com	317/627-9128
Starnes Trucking, Inc.		Local area trucking services	Brenda	Cooper	Princeton	starnestrucking@outlook.com	812/385-5628
Taylor Maid Trucking LLC	Taylor Maid Trucking LLC	Local area trucking services	Ricky	Taylor	South Bend	rickyataylor19@gmail.com	269/332-4307
Taylor Maid Trucking LLC	Taylor Maid Trucking LLC	Local area trucking services	Ricky	Taylor	South Bend	rickyataylor19@gmail.com	269/332-4307
Tomcat Trucking LLC	Tomcat Trucking LLC	Local area trucking services	Stephen	Richardson	Indianapolis	stvrchrdsn46@aol.com	317/383-6220
V & R Trucking, Inc.		Local area trucking services	Veda	Godette	South Bend	rfightingirish@aol.com	574-234-1268
V & R Trucking, Inc.		Local area trucking services	Veda	Godette	South Bend	rfightingirish@aol.com	574-234-1268
Victory Trucking & Supply, Inc.		Local area trucking services	Becki	Fredrick	Auburn	beckif@victorytrucking.com	260/357-3911
W. Fisher Enterprises Inc	W. Fisher Enterprises Inc	Local area trucking services	William	Fisher	Indianapolis	william@wfisherenterprises.com	317/413-1262
William White Trucking, Inc.		Local area trucking services	William	White	Indianapolis	msedbryant@att.net	317/370-6270
Sellers Masonry Inc	Sellers Masonry Inc	Masonry and Stonework Services	Casey	Sellers	Evansville	sellersinc@icloud.com	812/484-6356
Top Notch Brick, Block & Stone	Co. LLC	Masonry and Stonework Services	Homer	Somerville	Indianapolis	topnotchbbs@aol.com	317/283-6629
B & E Painting Inc	B & E Painting Inc	Painting services	Sherry	Wagoner	Indianapolis	sherry@b-epainting.com	317/440-6633
Dawson Management Group L	DBA FACILITY MAINTENANCE USA	Painting services	William	Dawson	Indianapolis	bryant@fmusa.biz	317/782-1800
Gable Property Solutions LLC		Painting services	Ashley	Hair	Indianapolis	gablepropertysolutions@gmail.com	317445-7058
Gable Property Solutions LLC		Painting services	Ashley	Hair	Indianapolis	gablepropertysolutions@gmail.com	317445-7058
Grant Professional Painting Inc.		Painting services	William	Grant	Evansville	painting@grantpropaint.com	812/303-1250
Harvest Douglass Hospitality LL	TMC CONTRACTORS	Painting services	Kevin	Thomas	Indianapolis	tmccontractors@comcast.net	888/862-9190
Jewel Contracting LLC	Jewel Contracting LLC	Painting services	Peri	Mason	South Bend	peri@jewelcontractingllc.com	574/400-9194
Jordan's Home Remodeling		Painting services	Jordan	Bates	South Bend	jordanshomeremodelingllc@gmail.com	574310-1460
Lumiere Academy LLC	WeParkStriping	Painting services	Benjamin	Madrid	Carmel	benjamin@weparkstriping.com	317/438-9696
McNeely Owned, Inc.		Painting services	Kim	Prifogle	Indianapolis	kprifogle@callmcneely.com	317/926-2411
On it Cleaning LLC	On It Construction Services	Painting services	Andrew	Walker II	Indianapolis	info@onitconstructionservices.com	773/729-7352
Professional Grade Services LLC	Professional Grade Services	Painting services	Damien	Blain	Indianapolis	dblain@pgsindy.com	317.688.8898
Reece Rebholz Co., Inc.		Painting services	Julienne	Rebholz	Indianapolis	julie@rebholzinc.com	317/359-0633
The Painted Pose	D/B/A - THE PAINT POPS - D/B/A THE PAINT	Painting services	Bernade	Flournoy	Indianapolis	Bernade@thepaintedpose.com	317/300-4683
The Painted Pose	D/B/A - THE PAINT POPS - D/B/A THE PAINT	Painting services	Bernade	Flournoy	Indianapolis	Bernade@thepaintedpose.com	317/300-4683
Tri-State Painting Company, Inc		Painting services	Penny	McDonald	Evansville	penny@tsp-usa.com	812-424-6334
Variety Choice Services LLC	Variety Choice Services	Painting services	Tamara	Pinkney	South Bend	varietychoiceservices@gmail.com	574/406-3131
Victory Trucking & Supply, Inc.		Painting services	Becki	Fredrick	Auburn	beckif@victorytrucking.com	260/357-3911
ANDERS LANDWORKS, LLC	ANDERS LANDWORKS, LLC	Pipe Laying Service	Casandra	Anders	Fort Branch	casi@rosemeyeragency.com	812/304-0054
Fox Contractors Corp		Pipe Laying Service	Dallas	Day	Fort Wayne	dbrown@foxcontractors.com	260/747-7461
Fox Contractors Corp		Pipe Laying Service	Dallas	Day	Fort Wayne	dbrown@foxcontractors.com	260/747-7461
S.A.M.M Trucking & Excavating	S.A.M.M Trucking & Excavating Inc.	Pipe Laying Service	Stephen	Harris	Newburgh	sammtrucking@yahoo.com	812/459-4802
JAZ Industrial, LLC		Pipe piping and pipe fittings	Stephanie	Purcell	Evansville	steph@jazind.com	812/305-5692
Thompson Distribution Compa	Mutual Pipe Supply	Pipe piping and pipe fittings	John	Thompson	Indianapolis	normat@thomdist.com	317-923-2581
Total Energy Solutions Compan	TESCO, LLC	Pipe piping and pipe fittings	Kris	Bowen	Indianapolis	kbowen@tesco-solutions.com	317/442-6887
Farris Landscaping LLC	n/a	Planting services	Pamela	Renner	Terre Haute	pfarris84@gmail.com	812/208-3757
PMG Tree Care & Landscape C	PMG Tree Care & Landscape Company, INC	Planting services	Brant	Flores	Evansville	brant@pmglandscaping.com	812/867-3900
Farris Landscaping LLC	n/a	Planting services or ornamental plant or	Pamela	Renner	Terre Haute	pfarris84@gmail.com	812/208-3757
PMG Tree Care & Landscape C	PMG Tree Care & Landscape Company, INC	Planting services or ornamental plant or	Brant	Flores	Evansville	brant@pmglandscaping.com	812/867-3900
Abram-Moss Design Group, LLC	Abram-Moss Design Group, LLC	Professional engineering services	Chelsea	Moss	Bloomington	cmoss@abram-moss.com	812/955-0539
ARK Engineering Services, Inc.		Professional engineering services	Wesley	Paul	Indianapolis	wpaul@ark-esi.com	317-787-3700
B. E. Reed, LLC		Professional engineering services	Benjamin	Reed	Indianapolis	breed@bereed.com	773/209-8016
Consulting Management Inspe	CMID, Inc.	Professional engineering services	John	Thompson	Indianapolis	adminassist@cmidinc.com	317/917-4244
Creative Engineering Solutions, Inc.		Professional engineering services	David	Jones III	Indianapolis	djones@creativeng.net	317/748-5252
DB Engineering		Professional engineering services	Rachel	Doba	Indianapolis	rdoba@db-engineering.com	317/602-4765
Design-Aire Engineering, Inc.	Design-Aire Engineering, Inc.	Professional engineering services	David	Haun	Indianapolis	dae@daengineering.com	317/464-9090
Guidon, LLC	Guidon Design	Professional engineering services	Luke	Leising	Indianapolis	Luke@guidondesign.com	317/800-6388
JQOL Inc		Professional engineering services	Jarvis	Jointer	Indianapolis	cadams@jqolusa.com	828/398-8531
Keramida Environmental, Inc.	KERAMIDA, INC.	Professional engineering services	Vasiliki	Keramida	Indianapolis	keramida@keramida.com	317-685-6600
McCormick Engineering, LLC		Professional engineering services	Tracy	McCormick	South Bend	tracy@mccormickeng.com	574/232-6800
METICULOUS DESIGN + ARCHIT	METICULOUS DESIGN + ARCHITECTURE	Professional engineering services	Ramon	Morrison	INDIANAPOLIS	rmorrison@meticulousda.com	317/926-1820
Metric Environmental , LLC	Metric Environmental , LLC	Professional engineering services	Kenneth	Beache	Indianapolis	kennethb@metricenv.com	317/400-1633
Midwest Associates of Indiana	Reliance Engineering, LLC	Professional engineering services	Stacy	Carey	Indianapolis	stacycarey@mwassociates.org	317/713-7412
Northpointe Engineering & Surveying, Inc		Professional engineering services	Donna	Smithers	Indianapolis	donna@npesindy.com	317/884-3020
Phoenix Data Corporation/Phoenix Health		Professional engineering services	Carol	Curran	Indianapolis	ccurran@phoenixdatacorporation.com	317/354-1187
Powers Engineering, Inc		Professional engineering services	Cherylynn	Schilling	Evansville	ccs@powersengineeringinc.com	812/618-6889
Powers Engineering, Inc		Professional engineering services	Cherylynn	Schilling	Evansville	ccs@powersengineeringinc.com	812/618-6889

Resolution Group, Inc.		Professional engineering services	David	Replogle	Indianapolis	dreplogle@resogrp.com	317/558-2911
Schmidt Associates, Inc.	Waypoint Strategies	Professional engineering services	Sarah	Hempstead	Indianapolis	lesley@inclusivestrategies.co	317/624-4527
SJCA Inc.		Professional engineering services	Sheryl	George	Indianapolis	SJCA_Certs_Admin@sjcainc.com	317/566-0629
The Etica Group		Professional engineering services	Jessica	Nickloy	Indianapolis	jnickloy@eticagroup.com	317/268-1821
V&J Consulting, LLC	V&J Consulting, LLC	Professional engineering services	James (Jae)	Ebert	Indianapolis	jebert@vjmep.com	317/703-6226
W. Brehmer Engineering	W. Brehmer Engineering	Professional engineering services	Wendy	Brehmer	Indianapolis	wendy@wbeindy.com	317/363-8219
92c Partners LLC	92c Partners LLC	Project management	Kara	Riggle	Indianapolis	yumi@92cpartners.com	312/515-3323
Affirm Group Services LLC		Project management	Jennifer	Saalfrank	Indianapolis	info@affirmgroupservices.com	317/946-8012
AFIT Staffing Inc	AFIT Staffing Inc	Project management	Julie	Phillips	Indianapolis	jphillips@afitstaffing.com	463/210-7350
Black Onyx Management, Inc.	Black Onyx Management, Inc.	Project management	Marshawn	Wolley	Indianapolis	marshawn@blackonyxmanagement.co	317/258-6429
Blue Marble, Inc.	Blue Marble Analytics	Project management	Ramadan	Abdul-Azeez	Fort Wayne	raazeez@bluemarbleinc.com	260/969-5700
Brenner Design Incorporated		Project management	Diana	Brenner	Indianapolis	dbrenner@brennerdesign.com	317-262-1220
Brenner Design Incorporated		Project management	Diana	Brenner	Indianapolis	dbrenner@brennerdesign.com	317-262-1220
Briljent, LLC		Project management	Kathy	Carrier	Fort Wayne	KGast@briljent.com	260/434-0990
Brite Systems Inc	Brite Systems Inc	Project management	Leena	Victoria	Indianapolis	leena.victoria@britesys.com	317/222-1977
Chamberlin-Dunn, LLC	Chamberlin-Dunn, LLC	Project management	Nicole	Dunn	Indianapolis	nicole.dunn@chamberlindunn.com	317/874-6321
Collabo Creative LLC	Collabo XD	Project management	Terri	Wada	Indianapolis	terri@collaboXD.com	808/382-9060
Collabo Creative LLC	Collabo XD	Project management	Terri	Wada	Indianapolis	terri@collaboXD.com	808/382-9060
Community Solutions, Inc.	Community Solutions, Inc.	Project management	Lena	Hackett	Indianapolis	lena@communitysolutionsinc.net	317.423.1770
Comtex Technologies Company	Comtex Technologies Company	Project management	Rondell	Jackson	Indianapolis	rjackson@comtex.us	317/409-4592
Comtex Technologies Company	Comtex Technologies Company	Project management	Rondell	Jackson	Indianapolis	rjackson@comtex.us	317/409-4592
Creative Solutions Consulting, I	CSCI Consulting	Project management	Michele	Durante	Indianapolis	contracting@csciconsulting.com	317/281-0785
Critical Skills, Inc.	CSpring	Project management	Cynthia	Pizarro	Carmel	cpizarro@cspring.com	317/848-9571
Danielle N Sovinski		Project management	Danielle	Sovinski	Carmel	deneukam@gmail.com	317/213-5487
Engaging Solutions, LLC		Project management	Tammy	Butler Robinson	Indianapolis	tammy@engagingsolutions.net	317/283-8300
Engaging Solutions, LLC		Project management	Tammy	Butler Robinson	Indianapolis	tammy@engagingsolutions.net	317/283-8300
Gable Property Solutions LLC		Project management	Ashley	Hair	Indianapolis	gablepropertysolutions@gmail.com	317445-7058
Gable Property Solutions LLC		Project management	Ashley	Hair	Indianapolis	gablepropertysolutions@gmail.com	317445-7058
GenTech Associates, Inc.		Project management	Scott	Chaplin	Indianapolis	scott@gentechassociates.com	317/547-4809
GreyPrint Consulting	GreyPrint Consulting	Project management	Sharmaine	Pechac	Bloomington	spechac@greyprint.org	330/388-9870
GreyPrint Consulting	GreyPrint Consulting	Project management	Sharmaine	Pechac	Bloomington	spechac@greyprint.org	330/388-9870
GS1 Consulting LLC	GS1 Consulting LLC	Project management	Takesha	McClane	South Bend	tmcclane@gs1consulting.com	574/621-2777
GS1 Consulting LLC	GS1 Consulting LLC	Project management	Takesha	McClane	South Bend	tmcclane@gs1consulting.com	574/621-2777
Gwen K. Chesterfield, LLC		Project management	Gwen	Chesterfield	INDIANAPOLIS	gkchesterfield@outlook.com	317/695-5045
HER Consulting LLC		Project management	Omolola	Olatunde	Avon	herconsultingllc@gmail.com	217454-5192
Hypesmith, Inc.	formerly known as Sr Advise, Inc.	Project management	Peggy	Johnson	Indianapolis	peggy@hypesmith.com	317/514-5318
Indiana Strategic Resource Group LLC		Project management	Aleta	Mungal	Carmel	amungal@indianastrategicresourcegro	317/258-8634
Indiana Strategic Resource Group LLC		Project management	Aleta	Mungal	Carmel	amungal@indianastrategicresourcegro	317/258-8634
Jani Development Company, LLC		Project management	Allie	Rosenbarger	INDIANAPOLIS	allie@janidevco.com	317/410-1792
JRK Consulting, LLC	JRK Consulting, LLC	Project management	Jill	Kramer	Indianapolis	kramer.jillr@gmail.com	317/506-4464
JRK Consulting, LLC	JRK Consulting, LLC	Project management	Jill	Kramer	Indianapolis	kramer.jillr@gmail.com	317/506-4464
Koehler Partners, Inc.	Koehler Partners, Inc.	Project management	Kathy	Koehler	Indianapolis	kathy@koehlerpartners.com	317/328-0614
LK3 Consulting LLC		Project management	LeRoy	King	South Bend	leroy@lk3consulting.com	574402-0450
Loree O Everette Design, Inc.	Phanomen Design	Project management	Loree	Everette	Indianapolis	loree@phanomen.com	317/439-4355
Loree O Everette Design, Inc.	Phanomen Design	Project management	Loree	Everette	Indianapolis	loree@phanomen.com	317/439-4355
McKinley Development LLC	McKinley Development LLC	Project management	Anne	McKinley	Indianapolis	amckinley34@gmail.com	317/459-4015
METICULOUS DESIGN + ARCHIT	METICULOUS DESIGN + ARCHITECTURE	Project management	Ramon	Morrison	INDIANAPOLIS	rmorrison@meticulousda.com	317/926-1820
Minnis Consulting LLC	Minnis Consulting LLC	Project management	Ronalda	Minnis	Indianapolis	ronalda@minnisconsults.com	317/938-7900
Minnis Consulting LLC	Minnis Consulting LLC	Project management	Ronalda	Minnis	Indianapolis	ronalda@minnisconsults.com	317/938-7900
Montrell Partnerships LLC	Montrell Events LLC	Project management	Janetta	McKenzie	Indianapolis	janetta@montrellpartnerships.com	317/407-2600
Montrell Partnerships LLC	Montrell Events LLC	Project management	Janetta	McKenzie	Indianapolis	janetta@montrellpartnerships.com	317/407-2600
MZ Corp	Zurbuch Development Construction Consult	Project management	Mary	Zurbuch	Indianapolis	mary@zurbuchinc.com	317/407-4677
netlogx LLC		Project management	Audrey	Taylor	Indianapolis	filings@netlogx.com	317/536-6046
NXT Beyond Inc.	NXT Beyond Inc.	Project management	John	Gardner	Indianapolis	corporate.ops@nxtbeyond.com	317/389-5110
Omani Hope Consulting, LLC	Omani Hope Consulting, LLC	Project management	Jessica	Thomas	Evansville	omanihopeconsulting@outlook.com	812/202-8037
Perpetual Technologies, Inc.	PTI, Inc	Project management	Ryan	Stephens	Indianapolis	amy.reeves@pti.net	317/824-0393
Perpetual Technologies, Inc.	PTI, Inc	Project management	Ryan	Stephens	Indianapolis	amy.reeves@pti.net	317/824-0393
Phoenix Data Corporation/Phoenix Health		Project management	Carol	Curran	Indianapolis	ccurran@phoenixdatacorporation.com	317/354-1187
Polaras Business Solutions, LLC	Polaras Business Solutions, LLC	Project management	Ruth	Siegfried	Carmel	rasiegfried@polarasllc.com	317/490-7922
Practical Applicable Strategic S	(P.A.S.S.) CONSULTING, LLC	Project management	Kevin	Hillman	Indianapolis	kev.hill@prac-consult.com	513502-6237
Prairie Quest, Inc.	Prairie Quest Consulting	Project management	Stacey	Smith	Fort Wayne	stacey@pqcworks.com	260/420-7374
Professional Management Enterprises Inc.		Project management	Haskell	Portee	Indianapolis	dportee@pme-indy.com	317/541-0200
Professional Management Enterprises Inc.		Project management	Haskell	Portee	Indianapolis	dportee@pme-indy.com	317/541-0200
RealAmerica Development, LLC		Project management	Ronda	Shrewsbury	Indianapolis	ronda@realamericallc.com	317-815-5929
Relocation Strategies, Inc.		Project management	Melissa	St. John	Indianapolis	mstjohn@relostrategies.com	317/202-0000
Results with Rachel, LLC	Results with Rachel, LLC	Project management	Rachel	Lamb	Indianapolis	rachel@resultswithrachel.com	317/607-7512
RG Collaborative, LLC		Project management	Sanford	Garner	Indianapolis	sanford@rgcollaborative.com	317/506-4411
Rockhaven Facility Services LLC		Project management	Laura	Barton	Indianapolis	Lbarton@RockhavenFS.com	317474-2119
Smith Solutions	Smith Solutions	Project management	Danielle	Smith	Indianapolis	dani@smithsolved.com	612/236-6107
Sondhi Solutions LLC		Project management	Jason	Sondhi	Indianapolis	jason@sondhisolutions.com	317/508-2890
SYNVOS INC	SYNVOS INC	Project management	Christy	Walchle	Carmel	christy@synvos.com	317/966-0709
TechLogics, LLC	TechLogics, LLC	Project management	Kareen	Adkins	INDIANAPOLIS	kareen.adkins@thetechlogics.com	317/672-5389
TechLogics, LLC	TechLogics, LLC	Project management	Kareen	Adkins	INDIANAPOLIS	kareen.adkins@thetechlogics.com	317/672-5389
TEW Consulting LLC		Project management	Tammy	Williams	Indianapolis	twilliams@tew-consulting.com	317/626-4003
The Consultants Consortium, In	TCC Solutions	Project management	Steven	Maudlin	Indianapolis	lisa.yankey@tccsolutions.com	317/522-6276
The Etica Group		Project management	Jessica	Nickloy	Indianapolis	jnickloy@eticagroup.com	317/268-1821
Tikur Solutions LLC	TIKUR SOLUTIONS	Project management	Davita	Johnson	Indianapolis	admin@tikursolutions.com	317/721-6169
Tikur Solutions LLC	TIKUR SOLUTIONS	Project management	Davita	Johnson	Indianapolis	admin@tikursolutions.com	317/721-6169
Virtuoso Education Consulting,	Virtuoso Education Consulting, LLC	Project management	Renae	Azziz	Indianapolis	Razziz@virtuosoed.com	317/386-6060
Virtuoso Education Consulting,	Virtuoso Education Consulting, LLC	Project management	Renae	Azziz	Indianapolis	Razziz@virtuosoed.com	317/386-6060
W. Brehmer Engineering	W. Brehmer Engineering	Project management	Wendy	Brehmer	Indianapolis	wendy@wbeindy.com	317/363-8219
WDI Architecture, Inc.		Project management	Daryl	Williams-Dotson	Indianapolis	daryl_wd@wdiarchitecture.com	317-251-6172
WDI Architecture, Inc.		Project management	Daryl	Williams-Dotson	Indianapolis	daryl_wd@wdiarchitecture.com	317-251-6172
C & R Construction and Consul	C & R Construction	Sidewalk construction and repair service	Lacy	Crosier	Corydon	lcrosier@crconstruction.info	812/738-4493
CGR, LLC	CGR, LLC	Sidewalk construction and repair service	Carven	Thomas	Bloomington	carven.thomas@cgrservicesin.com	812/327-1222
Owl Creek Farm LLC	Owl Creek Construction	Sidewalk construction and repair service	Joann	Zeller	Evansville	owlcreekfarmin@gmail.com	812/550-0381
S.A.M.M Trucking & Excavating	S.A.M.M Trucking & Excavating Inc.	Sidewalk construction and repair service	Stephen	Harris	Newburgh	sammtrucking@yahoo.com	812/459-4802
TC Electric Inc	TC Electric Inc	Sidewalk construction and repair service	Tina	Eason	Indianapolis	tina@tcelectric.us	317/313-4768
TGB Unlimited, INC	S/T Bancroft Electric	Sidewalk construction and repair service	Ty	Bancroft	South Bend	Lynn@thebancroftcompanies.com	574/968-2040
All American Express Solutions	All American Express	Sidewalk or ramp construction service	Rusty	Wheeler	Indianapolis	ghannah@all-american-solutions.com	317/494-2231
C & R Construction and Consul	C & R Construction	Sidewalk or ramp construction service	Lacy	Crosier	Corydon	lcrosier@crconstruction.info	812/738-4493
CGR, LLC	CGR, LLC	Sidewalk or ramp construction service	Carven	Thomas	Bloomington	carven.thomas@cgrservicesin.com	812/327-1222
Cornerstone Construction Grou	Cornerstone Construction Group LLC	Sidewalk or ramp construction service	Nick	Lunn	Indianapolis	nick@cornerstone-constructiongroup.	317/203-0252
Jordan's Home Remodeling		Sidewalk or ramp construction service	Jordan	Bates	South Bend	jordanshomeremodelingllc@gmail.com	574310-1460
McCray & Sons INC	McCray & Sons INC	Sidewalk or ramp construction service	Heather	McCray	Columbus	hmccray1969@gmail.com	812/350-0675
Owl Creek Farm LLC	Owl Creek Construction	Sidewalk or ramp construction service	Joann	Zeller	Evansville	owlcreekfarmin@gmail.com	812/550-0381
R. Chavez Construction Company Inc.		Sidewalk or ramp construction service	Roberto	Chavez	Indianapolis	sharon@rchavezconstruction.com	317/363-9635
TC Electric Inc	TC Electric Inc	Sidewalk or ramp construction service	Tina	Eason	Indianapolis	tina@tcelectric.us	317/313-4768
Whitehead Construction Inc	Whitehead Construction Inc	Sidewalk or ramp construction service	Constance	Kline	Fort Wayne	constance@whiteheadconstruction.bi	260/999-4156

Cardinal Manufacturing Conpa	Cardinal Manufacturing Conpany, Inc.	Sign installation and maintenance servic	Laura	Mulligan	Indianapolis	sales@cardinalmfginc.com	317/283-4175
James H Drew Corporation		Sign installation and maintenance servic	Heather	Fortune	Indianapolis	glindley@jameshdrew.com	317/876-3739
MidAmerica Safety Solutions		Sign installation and maintenance servic	Jeff	Klump	Evansville	midamerica@masafetysolutions.com	812/453-9786
TC Electric Inc	TC Electric Inc	Sign installation and maintenance servic	Tina	Eason	Indianapolis	tina@tcelectric.us	317/313-4768
Victory Trucking & Supply, Inc.		Sign installation and maintenance servic	Becki	Fredrick	Auburn	beckif@victorytrucking.com	260/357-3911
AarVee Associates LLC	Image 360 Indy NW	Signage	Rajesh	Patnaik	Indianapolis	info@image360indynw.com	317/222-5665
Booth Signs, Inc. dba FASTSIGN	FASTSIGNS	Signage	Donna	Booth	Columbus	Donna.Booth@fastsigns.com	812/376-7446
DRS Graphix Group Inc	PIP Marketing, Signs, Print Indy	Signage	Carol	Sandberg	Indianapolis	Carol@PIPMetroIndy.com	317/569-1855
Highway Safety Services, Inc.		Signage	MIke	Madrid	Lafayette	mike.madrid@hss-mmco.com	765/474-1000
International Label Mfg., LLC	Midwest Printing	Signage	Lisa	Gonzales	Terre Haute	lisagonzales@internationallabelmfg.co	812/235-5071
Repro Graphix, Inc.		Signage	Jill	Hall	Indianapolis	jhall@reprographix.com	317/637-3377
Thomas E. Slade Inc.	Slade Print d/b/a ProMark	Signage	Lisa	Slade	Evansville	lisa@sladeprint.com	812/437-5233
Victory Trucking & Supply, Inc.		Signage	Becki	Fredrick	Auburn	beckif@victorytrucking.com	260/357-3911
Y Factor Studio		Signage	Jennifer	Scales	Evansville	jennifer@yfactorstudio.com	812/453-9556

***this list does not represent ALL MBE/WBE vendor in the State of Indiana to view a full list please visit https://www.in.gov/idoa/mwbe/minority-and-womens-business-enterprises/certified-business-search/

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SUPPLIMENTS

City of Evansville Arboricultural Specifications Manual
RRFB Basis-of-Design Product Cutsheet

BID FORM SUPPLEMENTS

This form must be submitted with the Bid as required by the Project Manual.

To: City of Evansville, Indiana
Parks and Recreation Department
1 NW Martin Luther King, Jr. Blvd.
Evansville, Indiana 47708

Project: **NEXT LEVEL TRAILS 2024** Phase Two
Project No. 2024-1766

Date: _____

Submitted by: _____
(Bidder - please print the full name of your Proprietorship, Partnership, or Corporation)

_____
(full address)

_____

In accordance with Specifications - Instructions to Bidders we include the Bid Form Supplements Appendices listed below. The information provided shall be considered an integral part of the Bid Form.

These Appendices are as follows:

Appendix A **Receipt of Addenda/Project Completion**: If applicable, acknowledge receipt of all Addenda and fill in or acknowledge Completion Time/Project Schedule.

Appendix B **Alternatives**: When used, include the Cost variation to the Bid Price applicable to the Work described in the Contract Documents.

Appendix C **Principal Subcontractors**: When used, include the names of all Primary Subcontractors and the portions of the Work they will perform.

Appendix E **Unit Prices**: When used, include a listing of unit prices specifically requested by the Contract Documents to add or remove scope to the Work.

SCHEDULE OF APPENDICES

All bidders shall submit with their Bid the following Appendices:
- APPENDIX A – Receipt of Addenda
- APPENDIX B – Alternatives
- APPENDIX C – Principal Subcontractors
- APPENDIX D – Unit Prices

APPENDIX A - RECEIPT OF ADDENDA

1. **ADDENDA**

The Bidder acknowledges receipt of the following Addenda:

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

2. **PROJECT COMPLETION**

If this Bid is accepted, we will:

Substantially Complete all hardscape portions of the Work by November 26, 2025.

Fully Complete all Work including landscape by December 31, 2025.

APPENDIX B - ALTERNATIVES

The following amounts shall be added to or deducted from the Base Bid Sum. Refer to Section 01 29 00 - Payment Procedures and 01 23 00 - Alternates. Circle either Add or Deduct for each Alternate item.

Alternate No. 1
Delete the entire scope of work from Station 43+07.08 to Station 53+73.96.
Base Bid: Demolition, earthwork, drainage, pavements, furnishings and plantings as shown on plans.
Alternate: No work in this area; existing conditions remain.

(Add) (Deduct) $ _____

Alternate No. 2
Provide soft-surface trail running loop, complete, including timber railing, at State Hospital Grounds.
Base Bid: Reduced land disturbance; no soft-surface running trail.
Alternate: 2” INDOT dusty #11 aggregate, on 5” compacted aggregate #73, on subgrade treatment Type III, including timber railing per plans and specifications.

(Add) (Deduct) $ _____

Alternate No. 3
Install concrete stairs and railings, complete, at Division Street and Vann Ave.
Base Bid: Reduced land disturbance; no stairs or handrail nor approach sidewalk.
Alternate: Concrete sidewalk, stairs and aluminum railing per plans and specifications.

(Add) (Deduct) $ _____

Alternate No. 4
Install solar-powered RRFB, complete, at Division Street and Vann Ave.
Base Bid: MUTCD signage only; no RRFB.
Alternate: Install solar-powered RRFB per plans and specifications.

(Add) (Deduct) $ _____

Alternate No. 5
Install, maintain, and warranty additional tree plantings, complete. Refer to planting plans for locations.
Base Bid: Per planting plans.
Alternate: Install, maintain, and warranty additional tree plantings per plans and specifications.

(Add) (Deduct) $ _____

The Owner reserves the right to award the Base Bid only of the Base Bid with any Alternate or any Combination of Alternates whichever they may deem in their best interest.

APPENDIX C - PRINCIPAL SUBCONTRACTORS

A. The Bidder will make no changes to this list after submission, without a written request by the bidder and approval by the Owner.
B. The following Work will be performed (or provided) by subcontractors and their performance of the Work will be coordinated by General Contractor:

WORK SUBJECT	SUBCONTRACTOR
Site Clearing/Demolition	
Earth Moving	
C.I.P. Concrete	
Asphalt Paving	
Landscaping	
Pavement Marking	
Signage	
Pipe and Tube Railings	

APPENDIX D - UNIT PRICES

The following are Unit Prices for specific portions of the Work as listed and are applicable to authorized variations from the Contract Documents. Refer to Section 01 2900 - Payment Procedures and Section 01 2200 - Unit Prices. Submit only one unit price which shall be used for both additions to and deletions from the Work.

#	ITEM OF WORK	UNIT	UNIT PRICE
1	Tree, Remove, 4” to 8”	EA	$
2	Tree, Remove, 8” to 12”	EA	$
3	Tree, Remove, 12” to 24”	EA	$
4	Tree, Remove, 24” to 36”	EA	$
5	Tree, Remove, 36” to 60”	EA	$
6	Asphalt Pavement, Remove	SYD	$
7	Concrete Walk, Remove	SYD	$
8	Curb and Gutter, Remove	LF	$
9	Curb, Remove	LF	$
10	Excavation, Common	CYD	$
11	Subgrade Treatment, Type III	SYD	$
12	B Borrow	CYD	$
13	Compacted Aggregate #53	CYD	$
14	Geogrid, Tensar Bx-1200 (if needed for stabilization)	SYD	$
15	Concrete Sidewalk/Trail 4”	SYD	$
16	Concrete Drive 9”	SYD	$
17	Concrete Barrier Curb 6”	LF	$
18	Concrete Curb and Gutter	LF	$
19	Adjust Water Valve to Grade	EA	$
20	Adjust Manhole Casting to Grade	EA	$
21	Sign, MUTCD	EA	$
22	Line, Thermoplastic, Solid, White 24”	LF	$
23	Line, Thermoplastic, Solid, White 4”	LF	$
24	Line, Thermoplastic, Solid, Blue 4”	LF	$
25	ADA Symbol, Thermoplastic, 48” sq.	EA	$
26	Topsoil, Lawn	CYD	$
27	Seed and Straw	SYD	$
28	Shade Tree, 3.5” cal	EA	$
29			
30			

CONTRACTOR'S BID FOR PUBLIC WORK - FORM 96

State Form 52414 (R2 / 2-13) / Form 96 (Revised 2013)
Prescribed by State Board of Accounts

PART I
(To be completed for all bids. Please type or print)

Date *(month, day, year):*_____

1. Governmental Unit (Owner):_____
2. County :_____
3. Bidder (Firm):_____

   Address:_____

   City/State/ZIPcode:_____
4. Telephone Number:_____
5. Agent of Bidder *(if applicable):*_____

Pursuant to notices given, the undersigned offers to furnish labor and/or material necessary to complete the public works project of _____

(Governmental Unit) in accordance with plans and specifications prepared by _____

_____ and dated _____ for the sum of

_____ $_____

The undersigned further agrees to furnish a bond or certified check with this bid for an amount specified in the notice of the letting. If alternative bids apply, the undersigned submits a proposal for each in accordance with the notice. Any addendums attached will be specifically referenced at the applicable page.

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original contract if accepted by the governmental unit. If the bid is to be awarded on a unit basis, the itemization of the units shall be shown on a separate attachment.

The contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS
(If applicable)

I, the undersigned bidder or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I.C. 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel products on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

ACCEPTANCE

The above bid is accepted this _____ day of _____, _____, subject to the following conditions: _____

_____

Contracting Authority Members:

_____ _____

_____ _____

_____ _____

PART II

(For projects of $150,000 or more – IC 36-1-12-4)

Governmental Unit: _____

Bidder (Firm) _____

Date *(month, day, year):* _____

These statements to be submitted under oath by each bidder with and as a part of his bid. Attach additional pages for each section as needed.

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed for the period of one (1) year prior to the date of the current bid?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

2. What public works projects are now in process of construction by your organization?

Contract Amount	Class of Work	Expected Completion Date	Name and Address of Owner

3. Have you ever failed to complete any work awarded to you? _____ If so, where and why?

4. List references from private firms for which you have performed work.

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed work. *(Examples could include a narrative of when you could begin work, complete the project, number of workers, etc. and any other information which you believe would enable the governmental unit to consider your bid.)*

2. Please list the names and addresses of all subcontractors *(i.e. persons or firms outside your own firm who have performed part of the work)* that you have used on public works projects during the past five (5) years along with a brief description of the work done by each subcontractor.

3. If you intend to sublet any portion of the work, state the name and address of each subcontractor, equipment to be used by the subcontractor, and whether you will require a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval. Until the completion of the proposed project, you are under a continuing obligation to immediately notify the governmental unit in the event that you subsequently determine that you will use a subcontractor on the proposed project.

4. What equipment do you have available to use for the proposed project? Any equipment to be used by subcontractors may also be required to be listed by the governmental unit.

5. Have you entered into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? If not, please explain the rationale used which would corroborate the prices listed.

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

Attachment of bidder's financial statement is mandatory. Any bid submitted without said financial statement as required by statute shall thereby be rendered invalid. The financial statement provided hereunder to the governing body awarding the contract must be specific enough in detail so that said governing body can make a proper determination of the bidder's capability for completing the project if awarded.

SECTION IV CONTRACTOR'S NON – COLLUSION AFFIDAVIT

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to include anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

SECTION V OATH AND AFFIRMATION

I HEREBY AFFIRM UNDER THE PENALTIES FOR PERJURY THAT THE FACTS AND INFORMATION CONTAINED IN THE FOREGOING BID FOR PUBLIC WORKS ARE TRUE AND CORRECT.

Dated at _____ this _____ day of _____, _____

_____
(Name of Organization)

By_____

_____
(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____)
) ss
COUNTY OF_____)

Before me, a Notary Public, personally appeared the above-named _____ and swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to before me this _____ day of _____, _____.

_____
Notary Public

My Commission Expires:_____

County of Residence:_____

BID OF

_____
(Contractor)

_____
(Address)

_____

FOR

PUBLIC WORKS PROJECTS

OF

_____

_____

_____

Filed _____, _____

Action taken _____

_____

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Performance Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

OWNER:
(Name, legal status and address)
City of Evansville, Department of Parks and Recreation
Civic Center - 1 NW Martin Luther King Jr Blvd., Evansville, IN 47708

CONSTRUCTION CONTRACT
Date:
Amount: $
Description:
(Name and location)

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

BOND
Date:
(Not earlier than Construction Contract Date)

Amount: $
Modifications to this Bond: ☐ None ☐ See Section 16

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature:		Signature:	
Name and Title:		Name and Title:	

(Any additional signatures appear on the last page of this Performance Bond.)

(FOR INFORMATION ONLY — Name, address and telephone)

AGENT or **BROKER:**

OWNER'S REPRESENTATIVE:
(Architect, Engineer or other party:)

Init.
/

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§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

§ 2 If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except when applicable to participate in a conference as provided in Section 3.

§ 3 If there is no Owner Default under the Construction Contract, the Surety's obligation under this Bond shall arise after

.1 the Owner first provides notice to the Contractor and the Surety that the Owner is considering declaring a Contractor Default. Such notice shall indicate whether the Owner is requesting a conference among the Owner, Contractor and Surety to discuss the Contractor's performance. If the Owner does not request a conference, the Surety may, within five (5) business days after receipt of the Owner's notice, request such a conference. If the Surety timely requests a conference, the Owner shall attend. Unless the Owner agrees otherwise, any conference requested under this Section 3.1 shall be held within ten (10) business days of the Surety's receipt of the Owner's notice. If the Owner, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default;

.2 the Owner declares a Contractor Default, terminates the Construction Contract and notifies the Surety; and

.3 the Owner has agreed to pay the Balance of the Contract Price in accordance with the terms of the Construction Contract to the Surety or to a contractor selected to perform the Construction Contract.

§ 4 Failure on the part of the Owner to comply with the notice requirement in Section 3.1 shall not constitute a failure to comply with a condition precedent to the Surety's obligations, or release the Surety from its obligations, except to the extent the Surety demonstrates actual prejudice.

§ 5 When the Owner has satisfied the conditions of Section 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

§ 5.1 Arrange for the Contractor, with the consent of the Owner, to perform and complete the Construction Contract;

§ 5.2 Undertake to perform and complete the Construction Contract itself, through its agents or independent contractors;

§ 5.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and a contractor selected with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Section 7 in excess of the Balance of the Contract Price incurred by the Owner as a result of the Contractor Default; or

§ 5.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:

.1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, make payment to the Owner; or

.2 Deny liability in whole or in part and notify the Owner, citing the reasons for denial.

§ 6 If the Surety does not proceed as provided in Section 5 with reasonable promptness, the Surety shall be deemed to be in default on this Bond seven days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the Surety proceeds as provided in Section 5.4, and the Owner refuses the payment or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.

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§ 7 If the Surety elects to act under Section 5.1, 5.2 or 5.3, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication, for

.1 the responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;

.2 additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Section 5; and

.3 liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.

§ 8 If the Surety elects to act under Section 5.1, 5.3 or 5.4, the Surety's liability is limited to the amount of this Bond.

§ 9 The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators, successors and assigns.

§ 10 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

§ 11 Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after a declaration of Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

§ 12 Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears.

§ 13 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 14 Definitions

§ 14.1 Balance of the Contract Price. The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

§ 14.2 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and changes made to the agreement and the Contract Documents.

§ 14.3 Contractor Default. Failure of the Contractor, which has not been remedied or waived, to perform or otherwise to comply with a material term of the Construction Contract.

§ 14.4 Owner Default. Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

§ 14.5 Contract Documents. All the documents that comprise the agreement between the Owner and Contractor.

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§ 15 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 16 Modifications to this bond are as follows:

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature:		Signature:	
Name and Title:		Name and Title:	
Address:		Address:	

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User Notes: (1635083635)

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Payment Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

OWNER:
(Name, legal status and address)
City of Evansville, Department of Parks and Recreation
Civic Center - 1 NW Martin Luther King Jr Blvd., Evansville, IN 47708

CONSTRUCTION CONTRACT
Date:
Amount: $
Description:
(Name and location)

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

BOND
Date:
(Not earlier than Construction Contract Date)

Amount: $
Modifications to this Bond: ☐ None ☐ See Section 18

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature:		Signature:	
Name and Title:		Name and Title:	

(Any additional signatures appear on the last page of this Payment Bond.)

(FOR INFORMATION ONLY — Name, address and telephone)

AGENT or **BROKER:**

OWNER'S REPRESENTATIVE:
(Architect, Engineer or other party:)

Init.
/

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§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner to pay for labor, materials and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.

§ 2 If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies and holds harmless the Owner from claims, demands, liens or suits by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.

§ 3 If there is no Owner Default under the Construction Contract, the Surety's obligation to the Owner under this Bond shall arise after the Owner has promptly notified the Contractor and the Surety (at the address described in Section 13) of claims, demands, liens or suits against the Owner or the Owner's property by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract and tendered defense of such claims, demands, liens or suits to the Contractor and the Surety.

§ 4 When the Owner has satisfied the conditions in Section 3, the Surety shall promptly and at the Surety's expense defend, indemnify and hold harmless the Owner against a duly tendered claim, demand, lien or suit.

§ 5 The Surety's obligations to a Claimant under this Bond shall arise after the following:

§ 5.1 Claimants, who do not have a direct contract with the Contractor,

.1 have furnished a written notice of non-payment to the Contractor, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were, or equipment was, furnished or supplied or for whom the labor was done or performed, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the Claim; and

.2 have sent a Claim to the Surety (at the address described in Section 13).

§ 5.2 Claimants, who are employed by or have a direct contract with the Contractor, have sent a Claim to the Surety (at the address described in Section 13).

§ 6 If a notice of non-payment required by Section 5.1.1 is given by the Owner to the Contractor, that is sufficient to satisfy a Claimant's obligation to furnish a written notice of non-payment under Section 5.1.1.

§ 7 When a Claimant has satisfied the conditions of Sections 5.1 or 5.2, whichever is applicable, the Surety shall promptly and at the Surety's expense take the following actions:

§ 7.1 Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and

§ 7.2 Pay or arrange for payment of any undisputed amounts.

§ 7.3 The Surety's failure to discharge its obligations under Section 7.1 or Section 7.2 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a Claim, except as to undisputed amounts for which the Surety and Claimant have reached agreement. If, however, the Surety fails to discharge its obligations under Section 7.1 or Section 7.2, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs thereafter to recover any sums found to be due and owing to the Claimant.

§ 8 The Surety's total obligation shall not exceed the amount of this Bond, plus the amount of reasonable attorney's fees provided under Section 7.3, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.

§ 9 Amounts owed by the Owner to the Contractor under the Construction Contract shall be used for the performance of the Construction Contract and to satisfy claims, if any, under any construction performance bond. By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfy obligations of the Contractor and Surety under this Bond, subject to the Owner's priority to use the funds for the completion of the work.

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§ 10 The Surety shall not be liable to the Owner, Claimants or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligation to make payments to, or give notice on behalf of, Claimants or otherwise have any obligations to Claimants under this Bond.

§ 11 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

§ 12 No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the state in which the project that is the subject of the Construction Contract is located or after the expiration of one year from the date (1) on which the Claimant sent a Claim to the Surety pursuant to Section 5.1.2 or 5.2, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

§ 13 Notice and Claims to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears. Actual receipt of notice or Claims, however accomplished, shall be sufficient compliance as of the date received.

§ 14 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 15 Upon request by any person or entity appearing to be a potential beneficiary of this Bond, the Contractor and Owner shall promptly furnish a copy of this Bond or shall permit a copy to be made.

§ 16 Definitions

§ 16.1 Claim. A written statement by the Claimant including at a minimum:

- **.1** the name of the Claimant;
- **.2** the name of the person for whom the labor was done, or materials or equipment furnished;
- **.3** a copy of the agreement or purchase order pursuant to which labor, materials or equipment was furnished for use in the performance of the Construction Contract;
- **.4** a brief description of the labor, materials or equipment furnished;
- **.5** the date on which the Claimant last performed labor or last furnished materials or equipment for use in the performance of the Construction Contract;
- **.6** the total amount earned by the Claimant for labor, materials or equipment furnished as of the date of the Claim;
- **.7** the total amount of previous payments received by the Claimant; and
- **.8** the total amount due and unpaid to the Claimant for labor, materials or equipment furnished as of the date of the Claim.

§ 16.2 Claimant. An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials or equipment for use in the performance of the Construction Contract. The term Claimant also includes any individual or entity that has rightfully asserted a claim under an applicable mechanic's lien or similar statute against the real property upon which the Project is located. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials or equipment were furnished.

§ 16.3 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and all changes made to the agreement and the Contract Documents.

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§ 16.4 Owner Default. Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

§ 16.5 Contract Documents. All the documents that comprise the agreement between the Owner and Contractor.

§ 17 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 18 Modifications to this bond are as follows:

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature:		Signature:	
Name and Title:		Name and Title:	
Address:		Address:	

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AIA® Document A101™ – 2007

Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

AGREEMENT made as of the day of in the year
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address and other information)

City of Evansville, Department of Parks and Recreation
Civic Center - 1 NW Martin Luther King Jr Blvd., Evansville, IN 47708

and the Contractor:
(Name, legal status, address and other information)

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

AIA Document A201™–2007, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

for the following Project:
(Name, location and detailed description)

Next Level Trails 2024
Phase Two
Evansville, Indiana

The Architect:
(Name, legal status, address and other information)

Rundell Ernstberger Associates, Inc.
815 W Market St, Suite 504, Louisville, KY 40202

The Owner and Contractor agree as follows.

Init.
/

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ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be the date of this Agreement unless a different date is stated below or provision is made for the date to be fixed in a notice to proceed issued by the Owner.
(Insert the date of commencement if it differs from the date of this Agreement or, if applicable, state that the date will be fixed in a notice to proceed.)

If, prior to the commencement of the Work, the Owner requires time to file mortgages and other security interests, the Owner's time requirement shall be as follows:

§ 3.2 The Contract Time shall be measured from the date of commencement.

§ 3.3 The Contractor shall achieve Substantial Completion of the entire Work not later than ( ) days from the date of commencement, or as follows:
(Insert number of calendar days. Alternatively, a calendar date may be used when coordinated with the date of commencement. If appropriate, insert requirements for earlier Substantial Completion of certain portions of the Work.)

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Portion of Work	Substantial Completion Date

, subject to adjustments of this Contract Time as provided in the Contract Documents.
(Insert provisions, if any, for liquidated damages relating to failure to achieve Substantial Completion on time or for bonus payments for early completion of the Work.)

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be ($), subject to additions and deductions as provided in the Contract Documents.

§ 4.2 The Contract Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:
(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires.)

§ 4.3 Unit prices, if any:
(Identify and state the unit price; state quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price Per Unit ($0.00)

§ 4.4 Allowances included in the Contract Sum, if any:
(Identify allowance and state exclusions, if any, from the allowance price.)

Item	Price

ARTICLE 5 PAYMENTS

§ 5.1 PROGRESS PAYMENTS

§ 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

§ 5.1.3 Provided that an Application for Payment is received by the Architect not later than the day of a month, the Owner shall make payment of the certified amount to the Contractor not later than the day of the month. If an Application for Payment is received by the Architect after the application date fixed above, payment shall be made by the Owner not later than ( ) days after the Architect receives the Application for Payment.
(Federal, state or local laws may require payment within a certain period of time.)

§ 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.

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§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.6 Subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

.1 Take that portion of the Contract Sum properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the Contract Sum allocated to that portion of the Work in the schedule of values, less retainage of percent (%). Pending final determination of cost to the Owner of changes in the Work, amounts not in dispute shall be included as provided in Section 7.3.9 of AIA Document A201™–2007, General Conditions of the Contract for Construction;

.2 Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing), less retainage of percent (%);

.3 Subtract the aggregate of previous payments made by the Owner; and

.4 Subtract amounts, if any, for which the Architect has withheld or nullified a Certificate for Payment as provided in Section 9.5 of AIA Document A201–2007.

§ 5.1.7 The progress payment amount determined in accordance with Section 5.1.6 shall be further modified under the following circumstances:

.1 Add, upon Substantial Completion of the Work, a sum sufficient to increase the total payments to the full amount of the Contract Sum, less such amounts as the Architect shall determine for incomplete Work, retainage applicable to such work and unsettled claims; and
(Section 9.8.5 of AIA Document A201–2007 requires release of applicable retainage upon Substantial Completion of Work with consent of surety, if any.)

.2 Add, if final completion of the Work is thereafter materially delayed through no fault of the Contractor, any additional amounts payable in accordance with Section 9.10.3 of AIA Document A201–2007.

§ 5.1.8 Reduction or limitation of retainage, if any, shall be as follows:
(If it is intended, prior to Substantial Completion of the entire Work, to reduce or limit the retainage resulting from the percentages inserted in Sections 5.1.6.1 and 5.1.6.2 above, and this is not explained elsewhere in the Contract Documents, insert here provisions for such reduction or limitation.)

§ 5.1.9 Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

§ 5.2 FINAL PAYMENT

§ 5.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when

.1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Section 12.2.2 of AIA Document A201–2007, and to satisfy other requirements, if any, which extend beyond final payment; and

.2 a final Certificate for Payment has been issued by the Architect.

§ 5.2.2 The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment, or as follows:

ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 INITIAL DECISION MAKER

The Architect will serve as Initial Decision Maker pursuant to Section 15.2 of AIA Document A201–2007, unless the parties appoint below another individual, not a party to this Agreement, to serve as Initial Decision Maker.

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(If the parties mutually agree, insert the name, address and other contact information of the Initial Decision Maker, if other than the Architect.)

§ 6.2 BINDING DISPUTE RESOLUTION

For any Claim subject to, but not resolved by, mediation pursuant to Section 15.3 of AIA Document A201–2007, the method of binding dispute resolution shall be as follows:
(Check the appropriate box. If the Owner and Contractor do not select a method of binding dispute resolution below, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, Claims will be resolved by litigation in a court of competent jurisdiction.)

[ ] Arbitration pursuant to Section 15.4 of AIA Document A201–2007

[ ] Litigation in a court of competent jurisdiction

[ ] Other *(Specify)*

ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201–2007.

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201–2007.

ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201–2007 or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.
(Insert rate of interest agreed upon, if any.)

%

§ 8.3 The Owner's representative:
(Name, address and other information)

§ 8.4 The Contractor's representative:
(Name, address and other information)

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§ 8.5 Neither the Owner's nor the Contractor's representative shall be changed without ten days written notice to the other party.

§ 8.6 Other provisions:

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 The Contract Documents, except for Modifications issued after execution of this Agreement, are enumerated in the sections below.

§ 9.1.1 The Agreement is this executed AIA Document A101–2007, Standard Form of Agreement Between Owner and Contractor.

§ 9.1.2 The General Conditions are AIA Document A201–2007, General Conditions of the Contract for Construction.

§ 9.1.3 The Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages

§ 9.1.4 The Specifications:
(Either list the Specifications here or refer to an exhibit attached to this Agreement.)

Section	Title	Date	Pages

§ 9.1.5 The Drawings:
(Either list the Drawings here or refer to an exhibit attached to this Agreement.)

Number	Title	Date

§ 9.1.6 The Addenda, if any:

Number	Date	Pages

Portions of Addenda relating to bidding requirements are not part of the Contract Documents unless the bidding requirements are also enumerated in this Article 9.

§ 9.1.7 Additional documents, if any, forming part of the Contract Documents:

.1 AIA Document E201™–2007, Digital Data Protocol Exhibit, if completed by the parties, or the following:

.2 Other documents, if any, listed below:
(List here any additional documents that are intended to form part of the Contract Documents. AIA Document A201–2007 provides that bidding requirements such as advertisement or invitation to bid, Instructions to Bidders, sample forms and the Contractor's bid are not part of the Contract Documents

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unless enumerated in this Agreement. They should be listed here only if intended to be part of the Contract Documents.)

ARTICLE 10 INSURANCE AND BONDS

The Contractor shall purchase and maintain insurance and provide bonds as set forth in Article 11 of AIA Document A201–2007.

(State bonding requirements, if any, and limits of liability for insurance required in Article 11 of AIA Document A201–2007.)

Type of insurance or bond	**Limit of liability or bond amount ($0.00)**

This Agreement entered into as of the day and year first written above.

OWNER *(Signature)*	**CONTRACTOR** *(Signature)*
(Printed name and title)	*(Printed name and title)*

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AIA® Document A201™ – 2007

General Conditions of the Contract for Construction

for the following PROJECT:
(Name and location or address)

Next Level Trails 2024, Phase Two
Evansville, Indiana

THE OWNER:
(Name, legal status and address)

City of Evansville, Department of Parks and Recreation
Civic Center - 1 NW Martin Luther King Jr Blvd., Evansville, IN 47708

THE ARCHITECT:
(Name, legal status and address)

Rundell Ernstberger Associates, Inc.
815 W Market St, Suite 504, Louisville, KY 40202

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

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ARTICLE 1 GENERAL PROVISIONS

§ 1.1 BASIC DEFINITIONS

§ 1.1.1 THE CONTRACT DOCUMENTS

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding requirements.

§ 1.1.2 THE CONTRACT

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 THE WORK

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 THE PROJECT

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by separate contractors.

§ 1.1.5 THE DRAWINGS

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules and diagrams.

§ 1.1.6 THE SPECIFICATIONS

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 INSTRUMENTS OF SERVICE

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

§ 1.1.8 INITIAL DECISION MAKER

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2 and certify termination of the Agreement under Section 14.2.2.

§ 1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

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§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 CAPITALIZATION

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 INTERPRETATION

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.5 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS OF SERVICE

§ 1.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and will retain all common law, statutory and other reserved rights, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are authorized to use and reproduce the Instruments of Service provided to them solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers may not use the Instruments of Service on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and the Architect's consultants.

§ 1.6 TRANSMISSION OF DATA IN DIGITAL FORM

If the parties intend to transmit Instruments of Service or any other information or documentation in digital form, they shall endeavor to establish necessary protocols governing such transmissions, unless otherwise already provided in the Agreement or the Contract Documents.

ARTICLE 2 OWNER

§ 2.1 GENERAL

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§ 2.1.2 The Owner shall furnish to the Contractor within fifteen days after receipt of a written request, information necessary and relevant for the Contractor to evaluate, give notice of or enforce mechanic's lien rights. Such information shall include a correct statement of the record legal title to the property on which the Project is located, usually referred to as the site, and the Owner's interest therein.

§ 2.2 INFORMATION AND SERVICES REQUIRED OF THE OWNER

§ 2.2.1 Prior to commencement of the Work, the Contractor may request in writing that the Owner provide reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. Thereafter, the Contractor may only request such evidence if (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) a change in the Work materially changes the Contract Sum; or (3) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due. The Owner shall furnish such evidence as a condition precedent to commencement or continuation of the Work or the

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portion of the Work affected by a material change. After the Owner furnishes the evidence, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.2 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.2.3 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.2.4 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.2.5 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.

§ 2.3 OWNER'S RIGHT TO STOP THE WORK

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

§ 2.4 OWNER'S RIGHT TO CARRY OUT THE WORK

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect or failure. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner.

ARTICLE 3 CONTRACTOR

§ 3.1 GENERAL

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

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§ 3.2 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.2.3, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall make Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.3 SUPERVISION AND CONSTRUCTION PROCEDURES

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences or procedures, the Contractor shall evaluate the jobsite safety thereof and, except as stated below, shall be fully and solely responsible for the jobsite safety of such means, methods, techniques, sequences or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely written notice to the Owner and Architect and shall not proceed with that portion of the Work without further written instructions from the Architect. If the Contractor is then instructed to proceed with the required means, methods, techniques, sequences or procedures without acceptance of changes proposed by the Contractor, the Owner shall be solely responsible for any loss or damage arising solely from those Owner-required means, methods, techniques, sequences or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.4 LABOR AND MATERIALS

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

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§ 3.4.2 Except in the case of minor changes in the Work authorized by the Architect in accordance with Sections 3.12.8 or 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

§ 3.5 WARRANTY

The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.6 TAXES

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 3.7 PERMITS, FEES, NOTICES AND COMPLIANCE WITH LAWS

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 Concealed or Unknown Conditions. If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature, that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 21 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend an equitable adjustment in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor in writing, stating the reasons. If either party disputes the Architect's determination or recommendation, that party may proceed as provided in Article 15.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

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§ 3.8 ALLOWANCES

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

.1 Allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;

.2 Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and

.3 Whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 SUPERINTENDENT

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Architect the name and qualifications of a proposed superintendent. The Architect may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Architect has reasonable objection to the proposed superintendent or (2) that the Architect requires additional time to review. Failure of the Architect to reply within the 14 day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 CONTRACTOR'S CONSTRUCTION SCHEDULES

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall prepare and submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall not exceed time limits current under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

§ 3.10.2 The Contractor shall prepare a submittal schedule, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, and shall submit the schedule(s) for the Architect's approval. The Architect's approval shall not unreasonably be delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.11 DOCUMENTS AND SAMPLES AT THE SITE

The Contractor shall maintain at the site for the Owner one copy of the Drawings, Specifications, Addenda, Change Orders and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and one copy of approved Shop Drawings, Product Data, Samples and similar required submittals. These shall be available to the Architect and shall be delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

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§ 3.12 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. Their purpose is to demonstrate the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Architect Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Architect in writing of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such written notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. The Contractor shall not be required to provide professional services in violation of applicable law. If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall cause such services or certifications to be provided by a properly licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy, accuracy and

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completeness of the services, certifications and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor all performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review, approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Contractor shall not be responsible for the adequacy of the performance and design criteria specified in the Contract Documents.

§ 3.13 USE OF SITE

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.14 CUTTING AND PATCHING

§ 3.14.1 The Contractor shall be responsible for cutting, fitting or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting and patching shall be restored to the condition existing prior to the cutting, fitting and patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or separate contractors by cutting, patching or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter such construction by the Owner or a separate contractor except with written consent of the Owner and of such separate contractor; such consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold from the Owner or a separate contractor the Contractor's consent to cutting or otherwise altering the Work.

§ 3.15 CLEANING UP

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and Owner shall be entitled to reimbursement from the Contractor.

§ 3.16 ACCESS TO WORK

The Contractor shall provide the Owner and Architect access to the Work in preparation and progress wherever located.

§ 3.17 ROYALTIES, PATENTS AND COPYRIGHTS

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for such defense or loss when a particular design, process or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications or other documents prepared by the Owner or Architect. However, if the Contractor has reason to believe that the required design, process or product is an infringement of a copyright or a patent, the Contractor shall be responsible for such loss unless such information is promptly furnished to the Architect.

§ 3.18 INDEMNIFICATION

§ 3.18.1 To the fullest extent permitted by law the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity that would otherwise exist as to a party or person described in this Section 3.18.

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§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

ARTICLE 4 ARCHITECT

§ 4.1 GENERAL

§ 4.1.1 The Owner shall retain an architect lawfully licensed to practice architecture or an entity lawfully practicing architecture in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 4.1.2 Duties, responsibilities and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified or extended without written consent of the Owner, Contractor and Architect. Consent shall not be unreasonably withheld.

§ 4.1.3 If the employment of the Architect is terminated, the Owner shall employ a successor architect as to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

§ 4.2 ADMINISTRATION OF THE CONTRACT

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction until the date the Architect issues the final Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for, the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents, except as provided in Section 3.3.1.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and report to the Owner (1) known deviations from the Contract Documents and from the most recent construction schedule submitted by the Contractor, and (2) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of and will not be responsible for acts or omissions of the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 4.2.4 COMMUNICATIONS FACILITATING CONTRACT ADMINISTRATION

Except as otherwise provided in the Contract Documents or when direct communications have been specially authorized, the Owner and Contractor shall endeavor to communicate with each other through the Architect about matters arising out of or relating to the Contract. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and material suppliers shall be through the Contractor. Communications by and with separate contractors shall be through the Owner.

§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.5.2 and 13.5.3, whether or not such Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons or entities performing portions of the Work.

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§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5 and 3.12. The Architect's review shall not constitute approval of safety precautions or, unless otherwise specifically stated by the Architect, of any construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may authorize minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.

§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more project representatives to assist in carrying out the Architect's responsibilities at the site. The duties, responsibilities and limitations of authority of such project representatives shall be as set forth in an exhibit to be incorporated in the Contract Documents.

§ 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either and will not be liable for results of interpretations or decisions rendered in good faith.

§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

ARTICLE 5 SUBCONTRACTORS

§ 5.1 DEFINITIONS

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a separate contractor or subcontractors of a separate contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

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§ 5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

§ 5.2.1 Unless otherwise stated in the Contract Documents or the bidding requirements, the Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Architect the names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for each principal portion of the Work. The Architect may reply within 14 days to the Contractor in writing stating (1) whether the Owner or the Architect has reasonable objection to any such proposed person or entity or (2) that the Architect requires additional time for review. Failure of the Owner or Architect to reply within the 14-day period shall constitute notice of no reasonable objection.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person or entity previously selected if the Owner or Architect makes reasonable objection to such substitution.

§ 5.3 SUBCONTRACTUAL RELATIONS

By appropriate agreement, written where legally required for validity, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor, by these Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

.1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor in writing; and

.2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.

§ 5.4.3 Upon such assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. If the Owner assigns the subcontract to a successor contractor or other entity, the

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Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

§ 6.1.1 The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other construction or operations on the site under Conditions of the Contract identical or substantially similar to these including those portions related to insurance and waiver of subrogation. If the Contractor claims that delay or additional cost is involved because of such action by the Owner, the Contractor shall make such Claim as provided in Article 15.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each separate contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with other separate contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to the construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, separate contractors and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces, the Owner shall be deemed to be subject to the same obligations and to have the same rights that apply to the Contractor under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6 and Articles 10, 11 and 12.

§ 6.2 MUTUAL RESPONSIBILITY

§ 6.2.1 The Contractor shall afford the Owner and separate contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a separate contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly report to the Architect apparent discrepancies or defects in such other construction that would render it unsuitable for such proper execution and results. Failure of the Contractor so to report shall constitute an acknowledgment that the Owner's or separate contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work, except as to defects not then reasonably discoverable.

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a separate contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a separate contractor's delays, improperly timed activities, damage to the Work or defective construction.

§ 6.2.4 The Contractor shall promptly remedy damage the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or separate contractors as provided in Section 10.2.5.

§ 6.2.5 The Owner and each separate contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 6.3 OWNER'S RIGHT TO CLEAN UP

If a dispute arises among the Contractor, separate contractors and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

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ARTICLE 7 CHANGES IN THE WORK

§ 7.1 GENERAL

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor and Architect; a Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor; an order for a minor change in the Work may be issued by the Architect alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents, and the Contractor shall proceed promptly, unless otherwise provided in the Change Order, Construction Change Directive or order for a minor change in the Work.

§ 7.2 CHANGE ORDERS

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor and Architect stating their agreement upon all of the following:

.1 The change in the Work;
.2 The amount of the adjustment, if any, in the Contract Sum; and
.3 The extent of the adjustment, if any, in the Contract Time.

§ 7.3 CONSTRUCTION CHANGE DIRECTIVES

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

.1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
.2 Unit prices stated in the Contract Documents or subsequently agreed upon;
.3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
.4 As provided in Section 7.3.7.

§ 7.3.4 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed in a proposed Change Order or Construction Change Directive so that application of such unit prices to quantities of Work proposed will cause substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 7.3.5 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.6 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.7 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the method and the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount

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for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.7 shall be limited to the following:

.1 Costs of labor, including social security, old age and unemployment insurance, fringe benefits required by agreement or custom, and workers' compensation insurance;

.2 Costs of materials, supplies and equipment, including cost of transportation, whether incorporated or consumed;

.3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others;

.4 Costs of premiums for all bonds and insurance, permit fees, and sales, use or similar taxes related to the Work; and

.5 Additional costs of supervision and field office personnel directly attributable to the change.

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 MINOR CHANGES IN THE WORK

The Architect has authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the Contract Documents. Such changes will be effected by written order signed by the Architect and shall be binding on the Owner and Contractor.

ARTICLE 8 TIME

§ 8.1 DEFINITIONS

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 8.1.2 The date of commencement of the Work is the date established in the Agreement.

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 8.2 PROGRESS AND COMPLETION

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, prematurely commence operations on the site or elsewhere prior to the effective date of insurance required by Article 11 to be furnished by the Contractor and Owner. The date of commencement of the Work shall not be changed by the effective date of such insurance.

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§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.3 DELAYS AND EXTENSIONS OF TIME

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by an act or neglect of the Owner or Architect, or of an employee of either, or of a separate contractor employed by the Owner; or by changes ordered in the Work; or by labor disputes, fire, unusual delay in deliveries, unavoidable casualties or other causes beyond the Contractor's control; or by delay authorized by the Owner pending mediation and arbitration; or by other causes that the Architect determines may justify delay, then the Contract Time shall be extended by Change Order for such reasonable time as the Architect may determine.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 CONTRACT SUM

The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.2 SCHEDULE OF VALUES

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit to the Architect, before the first Application for Payment, a schedule of values allocating the entire Contract Sum to the various portions of the Work and prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 9.3 APPLICATIONS FOR PAYMENT

§ 9.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 9.2, for completed portions of the Work. Such application shall be notarized, if required, and supported by such data substantiating the Contractor's right to payment as the Owner or Architect may require, such as copies of requisitions from Subcontractors and material suppliers, and shall reflect retainage if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.

§ 9.3.1.2 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or material supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage and transportation to the site for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or

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encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work.

§ 9.4 CERTIFICATES FOR PAYMENT

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either issue to the Owner a Certificate for Payment, with a copy to the Contractor, for such amount as the Architect determines is properly due, or notify the Contractor and Owner in writing of the Architect's reasons for withholding certification in whole or in part as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data comprising the Application for Payment, that, to the best of the Architect's knowledge, information and belief, the Work has progressed to the point indicated and that the quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion and to specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will further constitute a representation that the Contractor is entitled to payment in the amount certified. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work, (2) reviewed construction means, methods, techniques, sequences or procedures, (3) reviewed copies of requisitions received from Subcontractors and material suppliers and other data requested by the Owner to substantiate the Contractor's right to payment, or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 DECISIONS TO WITHHOLD CERTIFICATION

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- **.1** defective Work not remedied;
- **.2** third party claims filed or reasonable evidence indicating probable filing of such claims unless security acceptable to the Owner is provided by the Contractor;
- **.3** failure of the Contractor to make payments properly to Subcontractors or for labor, materials or equipment;
- **.4** reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- **.5** damage to the Owner or a separate contractor;
- **.6** reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- **.7** repeated failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When the above reasons for withholding certification are removed, certification will be made for amounts previously withheld.

§ 9.5.3 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or material or equipment suppliers to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Architect will reflect such payment on the next Certificate for Payment.

§ 9.6 PROGRESS PAYMENTS

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

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§ 9.6.2 The Contractor shall pay each Subcontractor no later than seven days after receipt of payment from the Owner the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and material and equipment suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.

§ 9.6.5 Contractor payments to material and equipment suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors and suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, shall create any fiduciary liability or tort liability on the part of the Contractor for breach of trust or shall entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.7 FAILURE OF PAYMENT

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents the amount certified by the Architect or awarded by binding dispute resolution, then the Contractor may, upon seven additional days' written notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shut-down, delay and start-up, plus interest as provided for in the Contract Documents.

§ 9.8 SUBSTANTIAL COMPLETION

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

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§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion, shall establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate. Upon such acceptance and consent of surety, if any, the Owner shall make payment of retainage applying to such Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

§ 9.9 PARTIAL OCCUPANCY OR USE

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer as required under Section 11.3.1.5 and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

§ 9.10 FINAL COMPLETION AND FINAL PAYMENT

§ 9.10.1 Upon receipt of the Contractor's written notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection and, when the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with terms and conditions of the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner, (3) a written statement that the Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment and (5), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.

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§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

§ 9.10.4 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

- **.1** liens, Claims, security interests or encumbrances arising out of the Contract and unsettled;
- **.2** failure of the Work to comply with the requirements of the Contract Documents; or
- **.3** terms of special warranties required by the Contract Documents.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor or material supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 SAFETY PRECAUTIONS AND PROGRAMS

The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 SAFETY OF PERSONS AND PROPERTY

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury or loss to

- **.1** employees on the Work and other persons who may be affected thereby;
- **.2** the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody or control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and
- **.3** other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

§ 10.2.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities bearing on safety of persons or property or their protection from damage, injury or loss.

§ 10.2.3 The Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent sites and utilities.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3, except damage or loss attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

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§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

§ 10.2.8 INJURY OR DAMAGE TO PERSON OR PROPERTY

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, written notice of such injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 HAZARDOUS MATERIALS

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to the Owner and Architect in writing.

§ 10.3.2 Upon receipt of the Contractor's written notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of such material or substance or who are to perform the task of removal or safe containment of such material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased in the amount of the Contractor's reasonable additional costs of shut-down, delay and start-up.

§ 10.3.3 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss or expense is due to the fault or negligence of the party seeking indemnity.

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.

§ 10.3.5 The Contractor shall indemnify the Owner for the cost and expense the Owner incurs (1) for remediation of a material or substance the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall indemnify the Contractor for all cost and expense thereby incurred.

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§ 10.4 EMERGENCIES

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 CONTRACTOR'S LIABILITY INSURANCE

§ 11.1.1 The Contractor shall purchase from and maintain in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located such insurance as will protect the Contractor from claims set forth below which may arise out of or result from the Contractor's operations and completed operations under the Contract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

.1 Claims under workers' compensation, disability benefit and other similar employee benefit acts that are applicable to the Work to be performed;

.2 Claims for damages because of bodily injury, occupational sickness or disease, or death of the Contractor's employees;

.3 Claims for damages because of bodily injury, sickness or disease, or death of any person other than the Contractor's employees;

.4 Claims for damages insured by usual personal injury liability coverage;

.5 Claims for damages, other than to the Work itself, because of injury to or destruction of tangible property, including loss of use resulting therefrom;

.6 Claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance or use of a motor vehicle;

.7 Claims for bodily injury or property damage arising out of completed operations; and

.8 Claims involving contractual liability insurance applicable to the Contractor's obligations under Section 3.18.

§ 11.1.2 The insurance required by Section 11.1.1 shall be written for not less than limits of liability specified in the Contract Documents or required by law, whichever coverage is greater. Coverages, whether written on an occurrence or claims-made basis, shall be maintained without interruption from the date of commencement of the Work until the date of final payment and termination of any coverage required to be maintained after final payment, and, with respect to the Contractor's completed operations coverage, until the expiration of the period for correction of Work or for such other period for maintenance of completed operations coverage as specified in the Contract Documents.

§ 11.1.3 Certificates of insurance acceptable to the Owner shall be filed with the Owner prior to commencement of the Work and thereafter upon renewal or replacement of each required policy of insurance. These certificates and the insurance policies required by this Section 11.1 shall contain a provision that coverages afforded under the policies will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment as required by Section 9.10.2 and thereafter upon renewal or replacement of such coverage until the expiration of the time required by Section 11.1.2. Information concerning reduction of coverage on account of revised limits or claims paid under the General Aggregate, or both, shall be furnished by the Contractor with reasonable promptness.

§ 11.1.4 The Contractor shall cause the commercial liability coverage required by the Contract Documents to include (1) the Owner, the Architect and the Architect's consultants as additional insureds for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's completed operations.

§ 11.2 OWNER'S LIABILITY INSURANCE

The Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance.

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§ 11.3 PROPERTY INSURANCE

§ 11.3.1 Unless otherwise provided, the Owner shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance written on a builder's risk "all-risk" or equivalent policy form in the amount of the initial Contract Sum, plus value of subsequent Contract Modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis without optional deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Section 9.10 or until no person or entity other than the Owner has an insurable interest in the property required by this Section 11.3 to be covered, whichever is later. This insurance shall include interests of the Owner, the Contractor, Subcontractors and Sub-subcontractors in the Project.

§ 11.3.1.1 Property insurance shall be on an "all-risk" or equivalent policy form and shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, earthquake, flood, windstorm, falsework, testing and startup, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Architect's and Contractor's services and expenses required as a result of such insured loss.

§ 11.3.1.2 If the Owner does not intend to purchase such property insurance required by the Contract and with all of the coverages in the amount described above, the Owner shall so inform the Contractor in writing prior to commencement of the Work. The Contractor may then effect insurance that will protect the interests of the Contractor, Subcontractors and Sub-subcontractors in the Work, and by appropriate Change Order the cost thereof shall be charged to the Owner. If the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain insurance as described above, without so notifying the Contractor in writing, then the Owner shall bear all reasonable costs properly attributable thereto.

§ 11.3.1.3 If the property insurance requires deductibles, the Owner shall pay costs not covered because of such deductibles.

§ 11.3.1.4 This property insurance shall cover portions of the Work stored off the site, and also portions of the Work in transit.

§ 11.3.1.5 Partial occupancy or use in accordance with Section 9.9 shall not commence until the insurance company or companies providing property insurance have consented to such partial occupancy or use by endorsement or otherwise. The Owner and the Contractor shall take reasonable steps to obtain consent of the insurance company or companies and shall, without mutual written consent, take no action with respect to partial occupancy or use that would cause cancellation, lapse or reduction of insurance.

§ 11.3.2 BOILER AND MACHINERY INSURANCE

The Owner shall purchase and maintain boiler and machinery insurance required by the Contract Documents or by law, which shall specifically cover such insured objects during installation and until final acceptance by the Owner; this insurance shall include interests of the Owner, Contractor, Subcontractors and Sub-subcontractors in the Work, and the Owner and Contractor shall be named insureds.

§ 11.3.3 LOSS OF USE INSURANCE

The Owner, at the Owner's option, may purchase and maintain such insurance as will insure the Owner against loss of use of the Owner's property due to fire or other hazards, however caused. The Owner waives all rights of action against the Contractor for loss of use of the Owner's property, including consequential losses due to fire or other hazards however caused.

§ 11.3.4 If the Contractor requests in writing that insurance for risks other than those described herein or other special causes of loss be included in the property insurance policy, the Owner shall, if possible, include such insurance, and the cost thereof shall be charged to the Contractor by appropriate Change Order.

§ 11.3.5 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment

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property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, the Owner shall waive all rights in accordance with the terms of Section 11.3.7 for damages caused by fire or other causes of loss covered by this separate property insurance. All separate policies shall provide this waiver of subrogation by endorsement or otherwise.

§ 11.3.6 Before an exposure to loss may occur, the Owner shall file with the Contractor a copy of each policy that includes insurance coverages required by this Section 11.3. Each policy shall contain all generally applicable conditions, definitions, exclusions and endorsements related to this Project. Each policy shall contain a provision that the policy will not be canceled or allowed to expire, and that its limits will not be reduced, until at least 30 days' prior written notice has been given to the Contractor.

§ 11.3.7 WAIVERS OF SUBROGATION

The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents and employees, each of the other, and (2) the Architect, Architect's consultants, separate contractors described in Article 6, if any, and any of their subcontractors, sub-subcontractors, agents and employees, for damages caused by fire or other causes of loss to the extent covered by property insurance obtained pursuant to this Section 11.3 or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by the Owner as fiduciary. The Owner or Contractor, as appropriate, shall require of the Architect, Architect's consultants, separate contractors described in Article 6, if any, and the subcontractors, sub-subcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

§ 11.3.8 A loss insured under the Owner's property insurance shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.3.10. The Contractor shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their Sub-subcontractors in similar manner.

§ 11.3.9 If required in writing by a party in interest, the Owner as fiduciary shall, upon occurrence of an insured loss, give bond for proper performance of the Owner's duties. The cost of required bonds shall be charged against proceeds received as fiduciary. The Owner shall deposit in a separate account proceeds so received, which the Owner shall distribute in accordance with such agreement as the parties in interest may reach, or as determined in accordance with the method of binding dispute resolution selected in the Agreement between the Owner and Contractor. If after such loss no other special agreement is made and unless the Owner terminates the Contract for convenience, replacement of damaged property shall be performed by the Contractor after notification of a Change in the Work in accordance with Article 7.

§ 11.3.10 The Owner as fiduciary shall have power to adjust and settle a loss with insurers unless one of the parties in interest shall object in writing within five days after occurrence of loss to the Owner's exercise of this power; if such objection is made, the dispute shall be resolved in the manner selected by the Owner and Contractor as the method of binding dispute resolution in the Agreement. If the Owner and Contractor have selected arbitration as the method of binding dispute resolution, the Owner as fiduciary shall make settlement with insurers or, in the case of a dispute over distribution of insurance proceeds, in accordance with the directions of the arbitrators.

§ 11.4 PERFORMANCE BOND AND PAYMENT BOND

§ 11.4.1 The Owner shall have the right to require the Contractor to furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder as stipulated in bidding requirements or specifically required in the Contract Documents on the date of execution of the Contract.

§ 11.4.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

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ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 UNCOVERING OF WORK

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be at the Owner's expense. If such Work is not in accordance with the Contract Documents, such costs and the cost of correction shall be at the Contractor's expense unless the condition was caused by the Owner or a separate contractor in which event the Owner shall be responsible for payment of such costs.

§ 12.2 CORRECTION OF WORK

§ 12.2.1 BEFORE OR AFTER SUBSTANTIAL COMPLETION

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 AFTER SUBSTANTIAL COMPLETION

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.4.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of the Owner or separate contractors caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

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§ 12.3 ACCEPTANCE OF NONCONFORMING WORK

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 GOVERNING LAW

The Contract shall be governed by the law of the place where the Project is located except that, if the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4.

§ 13.2 SUCCESSORS AND ASSIGNS

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to covenants, agreements and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate such assignment.

§ 13.3 WRITTEN NOTICE

Written notice shall be deemed to have been duly served if delivered in person to the individual, to a member of the firm or entity, or to an officer of the corporation for which it was intended; or if delivered at, or sent by registered or certified mail or by courier service providing proof of delivery to, the last business address known to the party giving notice.

§ 13.4 RIGHTS AND REMEDIES

§ 13.4.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law.

§ 13.4.2 No action or failure to act by the Owner, Architect or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach there under, except as may be specifically agreed in writing.

§ 13.5 TESTS AND INSPECTIONS

§ 13.5.1 Tests, inspections and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of (1) tests, inspections or approvals that do not become requirements until after bids are received or negotiations concluded, and (2) tests, inspections or approvals where building codes or applicable laws or regulations prohibit the Owner from delegating their cost to the Contractor.

§ 13.5.2 If the Architect, Owner or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection or approval not included under Section 13.5.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection or approval by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.5.3, shall be at the Owner's expense.

§ 13.5.3 If such procedures for testing, inspection or approval under Sections 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by

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such failure including those of repeated procedures and compensation for the Architect's services and expenses shall be at the Contractor's expense.

§ 13.5.4 Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.5.5 If the Architect is to observe tests, inspections or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.5.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.6 INTEREST

Payments due and unpaid under the Contract Documents shall bear interest from the date payment is due at such rate as the parties may agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

§ 13.7 TIME LIMITS ON CLAIMS

The Owner and Contractor shall commence all claims and causes of action, whether in contract, tort, breach of warranty or otherwise, against the other arising out of or related to the Contract in accordance with the requirements of the final dispute resolution method selected in the Agreement within the time period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all claims and causes of action not commenced in accordance with this Section 13.7.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 TERMINATION BY THE CONTRACTOR

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, for any of the following reasons:

.1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;

.2 An act of government, such as a declaration of national emergency that requires all Work to be stopped;

.3 Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or

.4 The Owner has failed to furnish to the Contractor promptly, upon the Contractor's request, reasonable evidence as required by Section 2.2.1.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, repeated suspensions, delays or interruptions of the entire Work by the Owner as described in Section 14.3 constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' written notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed, including reasonable overhead and profit, costs incurred by reason of such termination, and damages.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor or a Subcontractor or their agents or employees or any other persons performing portions of the Work under contract with the Contractor because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' written notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

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§ 14.2 TERMINATION BY THE OWNER FOR CAUSE

§ 14.2.1 The Owner may terminate the Contract if the Contractor

.1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;

.2 fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;

.3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or

.4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the above reasons exist, the Owner, upon certification by the Initial Decision Maker that sufficient cause exists to justify such action, may without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' written notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

.1 Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;

.2 Accept assignment of subcontracts pursuant to Section 5.4; and

.3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 SUSPENSION BY THE OWNER FOR CONVENIENCE

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay or interruption as described in Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

.1 that performance is, was or would have been so suspended, delayed or interrupted by another cause for which the Contractor is responsible; or

.2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 TERMINATION BY THE OWNER FOR CONVENIENCE

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of written notice from the Owner of such termination for the Owner's convenience, the Contractor shall

.1 cease operations as directed by the Owner in the notice;

.2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and

.3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of such termination, along with reasonable overhead and profit on the Work not executed.

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ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 CLAIMS

§ 15.1.1 DEFINITION

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim.

§ 15.1.2 NOTICE OF CLAIMS

Claims by either the Owner or Contractor must be initiated by written notice to the other party and to the Initial Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party must be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

§ 15.1.3 CONTINUING CONTRACT PERFORMANCE

Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents. The Architect will prepare Change Orders and issue Certificates for Payment in accordance with the decisions of the Initial Decision Maker.

§ 15.1.4 CLAIMS FOR ADDITIONAL COST

If the Contractor wishes to make a Claim for an increase in the Contract Sum, written notice as provided herein shall be given before proceeding to execute the Work. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.5 CLAIMS FOR ADDITIONAL TIME

§ 15.1.5.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, written notice as provided herein shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.5.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated and had an adverse effect on the scheduled construction.

§ 15.1.6 CLAIMS FOR CONSEQUENTIAL DAMAGES

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

.1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and

.2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.6 shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

§ 15.2 INITIAL DECISION

§ 15.2.1 Claims, excluding those arising under Sections 10.3, 10.4, 11.3.9, and 11.3.10, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim arising prior to the date final payment is due, unless 30 days have passed after the Claim has been referred to the Initial Decision Maker with no decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

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§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of such request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date of an initial decision, demand in writing that the other party file for mediation within 60 days of the initial decision. If such a demand is made and the party receiving the demand fails to file for mediation within the time required, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 MEDIATION

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.6 shall be subject to mediation as a condition precedent to binding dispute resolution.

§ 15.3.2 The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

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§ 15.3.3 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 ARBITRATION

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 15.4.4 CONSOLIDATION OR JOINDER

§ 15.4.4.1 Either party, at its sole discretion, may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Either party, at its sole discretion, may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as the Owner and Contractor under this Agreement.

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DOCUMENT 00 6000 - FORMS

1.1 FORM OF AGREEMENT AND GENERAL CONDITIONS

A. The following form of Owner/Contractor Agreement and form of the General Conditions shall be used for Project:
   1. AIA Document A101, "Standard Form of Agreement between Owner and Contractor, Stipulated Sum."
      a. The General Conditions for Project are AIA Document A201, "General Conditions of the Contract for Construction."
   2. The General Conditions are included in the Project Manual.

1.2 ADMINISTRATIVE FORMS

A. Administrative Forms: Additional administrative forms are specified in Division 01 General Requirements.

B. Copies of AIA standard forms may be obtained from the American Institute of Architects; http://www.aia.org/contractdocs/purchase/index.htm; docspurchases@aia.org; (800) 942-7732.

C. Preconstruction Forms:
   1. Form of Performance Bond and Labor and Material Bond: AIA Document A312, "Performance Bond and Payment Bond."
   2. Form of Certificate of Insurance: AIA Document G715, "Supplemental Attachment for ACORD Certificate of Insurance 25-S."

D. Information and Modification Forms:
   1. Form for Requests for Information (RFIs): AIA Document G716, "Request for Information (RFI)."
   2. Form of Request for Proposal: AIA Document G709, "Work Changes Proposal Request."
   3. Change Order Form: AIA Document G701, "Change Order."
   4. Form of Architect's Memorandum for Minor Changes in the Work: AIA Document G707, "Architect's Supplemental Instructions."
   5. Form of Change Directive: AIA Document G714, "Construction Change Directive."

E. Payment Forms:
   1. Schedule of Values Form: AIA Document G703, "Continuation Sheet."
   2. Payment Application: AIA Document G702/703, "Application and Certificate for Payment and Continuation Sheet."
   3. Form of Contractor's Affidavit: AIA Document G706, "Contractor's Affidavit of Payment of Debts and Claims."
   4. Form of Affidavit of Release of Liens: AIA Document G706A, "Contractor's Affidavit of Payment of Release of Liens."
   5. Form of Consent of Surety: AIA Document G707, "Consent of Surety to Final Payment."

END OF DOCUMENT 00 6000

SECTION 01 1000 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Project information.
2. Work covered by Contract Documents.
3. Contractor's use of site and premises.
4. Coordination with occupants.
5. Work restrictions.
6. Specification and Drawing conventions.

B. Related Requirements:
1. Section 01 5000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.
2. Section 01 7300 "Execution" for coordination of Owner-installed products.

1.2 DEFINITIONS

A. Work Package: A group of specifications, drawings, and schedules prepared by the design team to describe a portion of the Project Work for pricing, permitting, and construction.

1.3 PROJECT INFORMATION

A. Project Identification: 1766 – Evansville Next Level Trails 2024, Phase Two.
1. Project Location: Evansville, Indiana.

B. Owner: City of Evansville, Board of Park Commissioners. 1 NW Martin Luther King Jr. Blvd, Evansville, IN 47708.
1. Owner's Representative: Danielle Crook, Parks Director. 812.435.2536.

C. Architect: Rundell Ernstberger Associates, 815 W Market St., Suite 504, Louisville, KY 40202.
1. Architect's Representative: Pete Andriot. 502.561.8676.

D. Architect's Consultants: Architect has retained the following design professionals, who have prepared designated portions of the Contract Documents:
1. MEP Engineering: Hafer, 21 Southeast Third Street, Suite 800, Evansville, IN 47708, 812.422.4187
2. Surveying and Civil Engineering: Three-I Design, 2425 W Indiana St, Evansville, IN 47712, 812.423.6800

1.4 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and includes, but is not limited to, the following:
   1. Development of new multi-use trail including: site demolition, earthwork, asphalt pavements, concrete pavements, landscape, and other Work indicated in the Contract Documents.

B. Type of Contract:
   1. Project will be constructed under a single prime contract.

1.5 CONTRACTOR'S USE OF SITE AND PREMISES

A. Restricted Use of Site: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.

B. Limits on Use of Site: Limit use of Project site to Work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
   1. Limits on Use of Site: Confine construction operations to phased operations indicated on Drawings.
   2. Walkways and Entrances: Keep walkways and entrances serving premises clear and available to Public and emergency vehicles at all times. Do not use these areas for parking or for storage of materials.
      a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
      b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

C. Condition of Existing Buildings: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.

D. Condition of Existing Grounds: Maintain portions of existing grounds, landscaping, and hardscaping affected by construction operations throughout construction period. Repair damage caused by construction operations.

1.6 COORDINATION WITH OCCUPANTS

A. Full Owner Occupancy: Owner will occupy Project site and existing adjacent buildings during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain access unless otherwise indicated.
   1. Maintain access to existing walkways, corridors, and other adjacent occupied or used buildings. Do not close or obstruct walkways, corridors, to occupied or used buildings without written permission from Owner and approval of authorities having jurisdiction.
   2. Notify Owner not less than 72 hours in advance of activities that will affect Owner's operations.

1.7 WORK RESTRICTIONS

A. Comply with restrictions on construction operations.
   1. Comply with limitations on use of public streets, work on public streets, rights of way, and other requirements of authorities having jurisdiction.

B. On-Site Work Hours: Limit work to between 6 a.m. to 6 p.m., Monday through Friday, unless otherwise indicated. Work hours may be modified to meet Project requirements if approved by Owner and authorities having jurisdiction.
   1. Weekend Hours: With Owner permission.
   2. Early Morning Hours: With Owner permission.

C. Construction Vehicle Parking: Locations for workers and delivery vehicles parking will be available on site.

D. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging for temporary utility services according to requirements indicated:
   1. Notify Architect and Owner not less than three days in advance of proposed utility interruptions.
   2. Obtain Owner's written permission before proceeding with utility interruptions.

E. Noise, Vibration, Dust, and Odors: Coordinate operations that may result in high levels of noise and vibration, dust, odors, or other disruption to Owner occupancy with Owner.
   1. Notify Architect and Owner not less than three days in advance of proposed disruptive operations.
   2. Obtain Owner's written permission before proceeding with disruptive operations.

F. Smoking and Controlled Substance Restrictions: Use of tobacco products, alcoholic beverages, and other controlled substances on Project site is not permitted.

G. Employee Screening: Comply with Owner's requirements for drug and background screening of Contractor personnel working on Project site.
   1. Maintain list of approved screened personnel with Owner's representative.

1.8 SPECIFICATION AND DRAWING CONVENTIONS

A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
   1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
   2. Text Color: Text used in the Specifications, including units of measure, manufacturer and product names, and other text may appear in multiple colors or underlined as part of a hyperlink; no emphasis is implied by text with these characteristics.
   3. Hypertext: Text used in the Specifications may contain hyperlinks. Hyperlinks may allow for access to linked information that is not residing in the Specifications.

Unless otherwise indicated, linked information is not part of the Contract Documents.

4. Specification requirements are to be performed by Contractor unless specifically stated otherwise.

B. Division 00 Contracting Requirements: General provisions of the Contract, including General and Supplementary Conditions, apply to all Sections of the Specifications.

C. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

D. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
   1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
   2. Abbreviations: Materials and products are identified by abbreviations published as part of the U.S. National CAD Standard.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 1000

SECTION 01 2200 - UNIT PRICES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for unit prices.

B. Related Requirements:
1. Section 01 2600 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
2. Section 01 4000 "Quality Requirements" for field testing by an independent testing agency.

1.2 DEFINITIONS

A. Unit price is an amount incorporated into the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.3 PROCEDURES

A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.

B. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.

C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.

D. List of Unit Prices: A schedule of unit prices is included in Bid Form Supplements. Specification Sections referenced in the Schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 2200

SECTION 01 2300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
   1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
   2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
   1. Include, as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation, whether or not indicated as part of alternate.

B. Execute accepted alternates under the same conditions as other Work of the Contract.

C. Schedule: A Part 3 "Schedule of Alternates" Article is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1:
   1. Provide asphalt trail cross section in lieu of concrete trail cross section.
   2. Base Bid: 4” concrete sidewalk, on 6” compacted aggregate #53, on subgrade treatment Type iii. Joints per details.
   3. Alternate: 165#/SY HMA Surface Type B, 9.5mm, on 275#/SY HMA Intermediate Type B, 19mm on 6” compacted aggregate #53, on subgrade treatment Type iii.

B. Alternate No. 2:
   1. Provide soft-surface trail running loop, complete, including timber railing, at State Hospital Grounds.

2. Base Bid: Reduced land disturbance; no soft-surface running trail.
3. Alternate: 2” INDOT dusty #11 aggregate, on 5” compacted aggregate #73, on subgrade treatment Type III, including timber railing per plans and specifications.

C. Alternate No. 3:
1. Install concrete stairs and railings, complete, at Division Street and Vann Ave.
2. Base Bid: Reduced land disturbance; no stairs or handrail nor approach sidewalk.
3. Alternate: Concrete sidewalk, stairs and aluminum railing per plans and specifications.

D. Alternate No. 4:
1. Install solar-powered RRFB, complete, at Division Street and Vann Ave.
2. Base Bid: MUTCD signage only.
3. Alternate: Install solar-powered RRFB per plans and specifications.

E. Alternate No. 5:
1. Install, maintain, and warranty additional tree plantings, complete.
2. Base Bid: Per planting plans.
3. Alternate: Install, maintain, and warranty additional tree plantings per plans and specifications.

END OF SECTION 01 2300

SECTION 01 2500 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for substitutions.

B. Related Requirements:
1. Section 01 2300 "Alternates" for products selected under an alternate.
2. Section 01 6000 "Product Requirements" for requirements for submitting comparable product submittals for products by listed manufacturers.

1.2 DEFINITIONS

A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents.
1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required to meet other Project requirements but may offer advantage to Contractor or Owner.

1.3 ACTION SUBMITTALS

A. Substitution Requests: Submit documentation identifying product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
1. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
a. Statement indicating why specified product or fabrication or installation method cannot be provided, if applicable.
b. Coordination of information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.
c. Detailed comparison of significant qualities of proposed substitutions with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes, such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
e. Samples, where applicable or requested.
f. Certificates and qualification data, where applicable or requested.
g. List of similar installations for completed projects, with project names and addresses as well as names and addresses of architects and owners.
h. Material test reports from a qualified testing agency, indicating and interpreting test results for compliance with requirements indicated.
i. Detailed comparison of Contractor's construction schedule using proposed substitutions with products specified for the Work, including effect on the overall

Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.

j. Cost information, including a proposal of change, if any, in the Contract Sum.

k. Contractor's certification that proposed substitution complies with requirements in the Contract Documents, except as indicated in substitution request, is compatible with related materials and is appropriate for applications indicated.

l. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.

2. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.

a. Forms of Acceptance: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.

b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.4 QUALITY ASSURANCE

A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.5 PROCEDURES

A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

1.6 SUBSTITUTIONS

A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.

1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:

a. Requested substitution is consistent with the Contract Documents and will produce indicated results.

b. Substitution request is fully documented and properly submitted.

c. Requested substitution will not adversely affect Contractor's construction schedule.

d. Requested substitution has received necessary approvals of authorities having jurisdiction.

e. Requested substitution is compatible with other portions of the Work.

f. Requested substitution has been coordinated with other portions of the Work.

g. Requested substitution provides specified warranty.

h. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

B. Substitutions for Convenience: Architect will consider requests for substitution if received within 30 days after the Notice of Award. Requests received after that time may be considered or rejected at discretion of Architect.
   1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
      a. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
      b. Requested substitution does not require extensive revisions to the Contract Documents.
      c. Requested substitution is consistent with the Contract Documents and will produce indicated results.
      d. Substitution request is fully documented and properly submitted.
      e. Requested substitution will not adversely affect Contractor's construction schedule.
      f. Requested substitution has received necessary approvals of authorities having jurisdiction.
      g. Requested substitution is compatible with other portions of the Work.
      h. Requested substitution has been coordinated with other portions of the Work.
      i. Requested substitution provides specified warranty.
      j. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 2500

SECTION 01 2600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for handling and processing Contract modifications.

B. Related Requirements:
1. Section 01 3100 "Project Management and Coordination" for requirements for forms for contract modifications provided as part of web-based Project management software.

1.2 MINOR CHANGES IN THE WORK

A. Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710.

1.3 PROPOSAL REQUESTS

A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
1. Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
2. Within time specified in Proposal Request or 14 days, when not otherwise specified, after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
c. Include costs of labor and supervision directly attributable to the change.
d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
e. Quotation Form: Use forms acceptable to Architect.

B. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect.

1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
4. Include costs of labor and supervision directly attributable to the change.
5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
6. Comply with requirements in Section 01 2500 "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.
7. Proposal Request Form: Use form acceptable to Architect.

1.4 ADMINISTRATIVE CHANGE ORDERS

A. Unit-Price Adjustment: See Section 01 2200 "Unit Prices" for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect measured scope of unit-price work.

1.5 CHANGE ORDER PROCEDURES

A. On Owner's approval of a Work Change Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on AIA Document G701.

1.6 CONSTRUCTION CHANGE DIRECTIVE

A. Construction Change Directive: Architect may issue a Construction Change Directive on AIA Document G714. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
   1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.

B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
   1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 2600

SECTION 01 2900 - PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.

B. Related Requirements:
   1. Section 01 2200 "Unit Prices" for administrative requirements governing the use of unit prices.
   2. Section 01 2600 "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.

1.2 DEFINITIONS

A. Schedule of Values: A statement furnished by Contractor allocating portions of the Contract Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

1.3 SCHEDULE OF VALUES

A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule.
   1. Coordinate line items in the schedule of values with items required to be indicated as separate activities in Contractor's construction schedule.
   2. Submit the schedule of values to Architect at earliest possible date, but no later than seven days before the date scheduled for submittal of initial Applications for Payment.

B. Format and Content: Use Project Manual table of contents as a guide to establish line items for the schedule of values. Provide at least one line item for each Specification Section.
   1. Identification: Include the following Project identification on the schedule of values:
      a. Project name and location.
      b. Owner's name.
      c. Owner's Project number.
      d. Name of Architect.
      e. Architect's Project number.
      f. Contractor's name and address.
      g. Date of submittal.
   2. Arrange schedule of values consistent with format of AIA Document G703.
   3. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Provide multiple line items for principal subcontract amounts in excess of five percent of the Contract Sum.

4. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
   a. Differentiate between items stored on-site and items stored off-site.
5. Purchase Contracts: Provide a separate line item in the schedule of values for each Purchase contract. Show line-item value of Purchase contract. Indicate Owner payments or deposits, if any, and balance to be paid by Contractor.
6. Overhead Costs, Separate Line Items: Show cost of temporary facilities and other major cost items that are not direct cost of actual work-in-place as separate line items.
7. Temporary Facilities: Show cost of temporary facilities and other major cost items that are not direct cost of actual work-in-place as separate line items.
8. Schedule of Values Revisions: Revise the schedule of values when Change Orders or Construction Change Directives result in a change in the Contract Sum. Include at least one separate line item for each Change Order and Construction Change Directive.

1.4 APPLICATIONS FOR PAYMENT

A. Each Application for Payment following the initial Application for Payment shall be consistent with previous applications and payments, as certified by Architect and paid for by Owner.

B. Payment Application Times: The date for each progress payment is indicated in the Owner/Contractor Agreement. The period of construction work covered by each Application for Payment is the period indicated in the Agreement.
   1. Submit draft copy of Application for Payment seven days prior to due date for review by Architect.

C. Application for Payment Forms: Use AIA Document G702 and AIA Document G703 as form for Applications for Payment.

D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.
   1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
   2. Include amounts for work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
   3. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
   4. Indicate separate amounts for work being carried out under Owner-requested project acceleration.

E. Stored Materials: Include in Application for Payment amounts applied for materials or equipment purchased or fabricated and stored, but not yet installed. Differentiate between items stored on-site and items stored off-site.
   1. Provide certificate of insurance, evidence of transfer of title to Owner, and consent of surety to payment for stored materials.

2. Provide supporting documentation that verifies amount requested, such as paid invoices. Match amount requested with amounts indicated on documentation; do not include overhead and profit on stored materials.
3. Provide summary documentation for stored materials indicating the following:
   a. Value of materials previously stored and remaining stored as of date of previous Applications for Payment.
   b. Value of previously stored materials put in place after date of previous Application for Payment and on or before date of current Application for Payment.
   c. Value of materials stored since date of previous Application for Payment and remaining stored as of date of current Application for Payment.

F. Transmittal: Submit three signed and notarized original copies of each Application for Payment to Architect by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.
1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.

G. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's lien from subcontractors, sub-subcontractors, and suppliers for construction period covered by the previous application.
1. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.
2. When an application shows completion of an item, submit conditional final or full waivers.
3. Owner reserves the right to designate which entities involved in the Work must submit waivers.
4. Submit final Application for Payment with or preceded by conditional final waivers from every entity involved with performance of the Work covered by the application who is lawfully entitled to a lien.
5. Waiver Forms: Submit executed waivers of lien on forms acceptable to Owner.

H. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
1. List of subcontractors.
2. Schedule of values.
3. Contractor's construction schedule (preliminary if not final).
4. Products list (preliminary if not final).
5. Schedule of unit prices.
6. Submittal schedule (preliminary if not final).
7. List of Contractor's staff assignments.
8. List of Contractor's principal consultants.
9. Copies of building permits.
10. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
11. Initial progress report.
12. Report of preconstruction conference.

I. Application for Payment at Substantial Completion: After Architect issues the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.
   1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
      a. Complete administrative actions, submittals, and Work preceding this application, as described in Section 01 7700 "Closeout Procedures."
   2. This application shall reflect Certificate(s) of Substantial Completion issued previously for Owner occupancy of designated portions of the Work.

J. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:
   1. Evidence of completion of Project closeout requirements.
   2. Certification of completion of final punch list items.
   3. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
   4. Updated final statement, accounting for final changes to the Contract Sum.
   5. AIA Document G706.
   6. AIA Document G706A.
   7. AIA Document G707.
   8. Evidence that claims have been settled.
   9. Final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when Owner took possession of and assumed responsibility for corresponding elements of the Work.
   10. Final liquidated damages settlement statement.
   11. Proof that taxes, fees, and similar obligations are paid.
   12. Waivers and releases.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 2900

SECTION 01 3100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative provisions for coordinating construction operations on Project, including, but not limited to, the following:
   1. General coordination procedures.
   2. Coordination drawings.
   3. RFIs.
   4. Project meetings.

B. Related Requirements:
   1. Section 01 7300 "Execution" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.
   2. Section 01 7700 "Closeout Procedures" for coordinating closeout of the Contract.

1.2 DEFINITIONS

A. RFI: Request for Information. Request from Owner, Architect, or Contractor seeking information required by or clarifications of the Contract Documents.

1.3 INFORMATIONAL SUBMITTALS

A. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:
   1. Name, address, telephone number, and email address of entity performing subcontract or supplying products.
   2. Number and title of related Specification Section(s) covered by subcontract.
   3. Drawing number and detail references, as appropriate, covered by subcontract.

B. Key Personnel Names: Within 15 days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses, cellular telephone numbers, and e-mail addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.
   1. Post copies of list in Project meeting room, in temporary field office, and in prominent location in each built facility. Keep list current at all times.

1.4 GENERAL COORDINATION PROCEDURES

A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work.

Coordinate construction operations included in different Sections that depend on each other for proper installation, connection, and operation.

1. Schedule construction operations in sequence required to obtain the best results, where installation of one part of the Work depends on installation of other components, before or after its own installation.
2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
3. Make adequate provisions to accommodate items scheduled for later installation.

1.5 COORDINATION DRAWINGS

A. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, and additionally where installation is not completely indicated on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.

1. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
    a. Use applicable Drawings as a basis for preparation of coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
    b. Coordinate the addition of trade-specific information to coordination drawings by multiple contractors in a sequence that best provides for coordination of the information and resolution of conflicts between installed components before submitting for review.
    c. Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.
    d. Indicate space requirements for routine maintenance and for anticipated replacement of components during the life of the installation.
    e. Indicate required installation sequences.
    f. Indicate dimensions shown on Drawings. Specifically note dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternative sketches to Architect indicating proposed resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.

B. Coordination Drawing Organization: Organize coordination drawings as follows:

1. Structural Penetrations: Indicate penetrations and openings required for all disciplines.
2. Slab Edge and Embedded Items: Indicate slab edge locations and sizes and locations of embedded items for metal fabrications, sleeves, anchor bolts, bearing plates, angles, door floor closers, slab depressions for floor finishes, curbs and housekeeping pads, and similar items.
3. Mechanical and Plumbing Work: Show the following:
    a. Sizes and bottom elevations of ductwork, piping, and conduit runs, including insulation, bracing, flanges, and support systems.
    b. Dimensions of major components, such as dampers, valves, diffusers, access doors, cleanouts and electrical distribution equipment.
    c. Fire-rated enclosures around ductwork.

4. Electrical Work: Show the following:
   a. Runs of vertical and horizontal conduit 1-1/4 inches in diameter and larger.
   b. Light fixture, exit light, emergency battery pack, smoke detector, and other fire-alarm locations.
   c. Panel board, switchboard, switchgear, transformer, busway, generator, and motor-control center locations.
   d. Location of pull boxes and junction boxes, dimensioned from column center lines.
5. Review: Architect will review coordination drawings to confirm that, in general, the Work is being coordinated, but not for the details of the coordination, which are Contractor's responsibility. If Architect determines that coordination drawings are not being prepared in sufficient scope or detail, or are otherwise deficient, Architect will so inform Contractor, who shall make suitable modifications and resubmit.

C. Coordination Digital Data Files: Prepare coordination digital data files according to the following requirements:
1. File Preparation Format:
   a. Same digital data software program, version, and operating system as original Drawings.
   b. DWG, Version , operating in Microsoft Windows operating system.
2. File Submittal Format: Submit or post coordination drawing files using format same as file preparation format.
3. Architect will furnish Contractor one set of digital data files of Drawings for use in preparing coordination digital data files.
   a. Architect makes no representations as to the accuracy or completeness of digital data files as they relate to Drawings.
   b. Digital Data Software Program: Drawings are available in AutoCAD.
   c. Contractor shall execute a data licensing agreement in the form of Agreement form acceptable to Owner and Architect.

1.6 REQUEST FOR INFORMATION (RFI)

A. General: Immediately on discovery of the need for additional information, clarification, or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
1. Architect will return without response those RFIs submitted to Architect by other entities controlled by Contractor.
2. Coordinate and submit RFIs in a prompt manner to avoid delays in Contractor's work or work of subcontractors.

B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
1. Project name.
2. Project number.
3. Name of Architect.
4. Architect's Project number.
5. Date.
6. Name of Contractor.
7. RFI number, numbered sequentially.
8. RFI subject.

9. Specification Section number and title and related paragraphs, as appropriate.
10. Drawing number and detail references, as appropriate.
11. Field dimensions and conditions, as appropriate.
12. Contractor's suggested resolution. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
13. Contractor's signature.
14. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
    a. Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on attached sketches.

C. RFI Forms: AIA Document G716 or form with substantially the same content as indicated above, acceptable to Architect.
1. Attachments shall be electronic files in PDF format.

D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow seven days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.
1. The following Contractor-generated RFIs will be returned without action:
    a. Requests for approval of submittals.
    b. Requests for approval of substitutions.
    c. Requests for approval of Contractor's means and methods.
    d. Requests for coordination information already indicated in the Contract Documents.
    e. Requests for adjustments in the Contract Time or the Contract Sum.
    f. Requests for interpretation of Architect's actions on submittals.
    g. Incomplete RFIs or inaccurately prepared RFIs.
2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt by Architect of additional information.
3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 01 2600 "Contract Modification Procedures."
    a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within seven days of receipt of the RFI response.

E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log at regularly scheduled progress meetings. Include the following:
1. Project name.
2. Name and address of Contractor.
3. Name and address of Architect.
4. RFI number, including RFIs that were returned without action or withdrawn.
5. RFI description.
6. Date the RFI was submitted.
7. Date Architect's response was received.
8. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.

F. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within seven days if Contractor disagrees with response.

1.7 DIGITAL PROJECT MANAGEMENT PROCEDURES

A. Use of Architect's Digital Data Files: Digital data files of Architect's CAD drawings will be provided by Architect for Contractor's use during construction.
   1. Digital data files may be used by Contractor in preparing coordination drawings, Shop Drawings, and Project Record Drawings.
   2. Architect makes no representations as to the accuracy or completeness of digital data files as they relate to Contract Drawings.
   3. Digital Drawing Software Program: Contract Drawings are available in AutoCAD 2021 format.
   4. Contractor shall execute a data licensing agreement in the form of Agreement form acceptable to Owner and Architect.
      a. Subcontractors and other parties granted access by Contractor to Architect's digital data files shall execute a data licensing agreement in the form of Agreement acceptable to Owner and Architect.

B. PDF Document Preparation: Where PDFs are required to be submitted to Architect, prepare as follows:
   1. Assemble complete submittal package into a single indexed file, incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
   2. Name file with submittal number or other unique identifier, including revision identifier.
   3. Certifications: Where digitally submitted certificates and certifications are required, provide a digital signature with digital certificate on where indicated.

1.8 PROJECT MEETINGS

A. General: Schedule and conduct meetings and conferences at Project site unless otherwise indicated.
   1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times a minimum of 10 working days prior to meeting.
   2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
   3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Architect, within three days of the meeting.

B. Preconstruction Conference: Schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect, but no later than 15 days after execution of the Agreement.
   1. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other

concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.

2. Agenda: Discuss items of significance that could affect progress, including the following:
   a. Responsibilities and personnel assignments.
   b. Tentative construction schedule.
   c. Phasing.
   d. Critical work sequencing and long lead items.
   e. Designation of key personnel and their duties.
   f. Lines of communications.
   g. Procedures for processing field decisions and Change Orders.
   h. Procedures for RFIs.
   i. Procedures for testing and inspecting.
   j. Procedures for processing Applications for Payment.
   k. Distribution of the Contract Documents.
   l. Submittal procedures.
   m. Preparation of Record Documents.
   n. Use of the premises and access to existing buildings.
   o. Work restrictions.
   p. Working hours.
   q. Owner's occupancy requirements.
   r. Responsibility for temporary facilities and controls.
   s. Procedures for disruptions and shutdowns.
   t. Construction waste management and recycling.
   u. Parking availability.
   v. Office, work, and storage areas.
   w. Equipment deliveries and priorities.
   x. First aid.
   y. Security.
   z. Progress cleaning.
3. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.

C. Preinstallation Conferences: Conduct a preinstallation conference at Project site before each construction activity when required by other Sections and when required for coordination with other construction.
   1. Attendees: Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise Architect and Owner of scheduled meeting dates.
   2. Agenda: Review progress of other construction activities and preparations for the particular activity under consideration, including requirements for the following:
      a. Contract Documents.
      b. Options.
      c. Related RFIs.
      d. Related Change Orders.
      e. Purchases.
      f. Deliveries.
      g. Submittals.
      h. Review of mockups.

i. Possible conflicts.
j. Compatibility requirements.
k. Time schedules.
l. Weather limitations.
m. Manufacturer's written instructions.
n. Warranty requirements.
o. Compatibility of materials.
p. Temporary facilities and controls.
q. Space and access limitations.
r. Regulations of authorities having jurisdiction.
s. Testing and inspecting requirements.
t. Installation procedures.
u. Coordination with other work.
v. Required performance results.
w. Protection of adjacent work.
x. Protection of construction and personnel.

3. Record significant conference discussions, agreements, and disagreements, including required corrective measures and actions.
4. Reporting: Distribute minutes of the meeting to each party present and to other parties requiring information.
5. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.

D. Project Closeout Conference: Schedule and conduct a project closeout conference, at a time convenient to Owner and Architect, but no later than 30 days prior to the scheduled date of Substantial Completion.
1. Conduct the conference to review requirements and responsibilities related to Project closeout.
2. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the meeting. Participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
3. Agenda: Discuss items of significance that could affect or delay Project closeout, including the following:
a. Preparation of Record Documents.
b. Procedures required prior to inspection for Substantial Completion and for final inspection for acceptance.
c. Procedures for completing and archiving web-based Project software site data files.
d. Submittal of written warranties.
e. Requirements for preparing operations and maintenance data.
f. Requirements for delivery of material samples, attic stock, and spare parts.
g. Requirements for demonstration and training.
h. Preparation of Contractor's punch list.
i. Procedures for processing Applications for Payment at Substantial Completion and for final payment.
j. Submittal procedures.
k. Owner's partial occupancy requirements.
l. Installation of Owner's furniture, fixtures, and equipment.

m. Responsibility for removing temporary facilities and controls.

4. Minutes: Entity conducting meeting will record and distribute meeting minutes.

E. Progress Meetings: Conduct progress meetings at weekly intervals.

1. Coordinate dates of meetings with preparation of payment requests.
2. Attendees: In addition to representatives of Owner, and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
3. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
   a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
      1) Review schedule for next period.
   b. Review present and future needs of each entity present, including the following:
      1) Interface requirements.
      2) Sequence of operations.
      3) Status of submittals.
      4) Deliveries.
      5) Off-site fabrication.
      6) Access.
      7) Site use.
      8) Temporary facilities and controls.
      9) Progress cleaning.
      10) Quality and work standards.
      11) Status of correction of deficient items.
      12) Field observations.
      13) Status of RFIs.
      14) Status of Proposal Requests.
      15) Pending changes.
      16) Status of Change Orders.
      17) Pending claims and disputes.
      18) Documentation of information for payment requests.
4. Minutes: Entity responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.
   a. Schedule Updating: Revise Contractor's construction schedule after each progress meeting, where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 3100

SECTION 01 3300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Submittal schedule requirements.
2. Administrative and procedural requirements for submittals.

B. Related Requirements:
1. Section 01 2900 "Payment Procedures" for submitting Applications for Payment and the schedule of values.
2. Section 01 3100 "Project Management and Coordination" for submitting coordination drawings and subcontract list and for requirements for web-based Project software.
3. Section 01 3200 "Construction Progress Documentation" for submitting schedules and reports, including Contractor's construction schedule.
4. Section 01 3233 "Photographic Documentation" for submitting preconstruction photographs, periodic construction photographs, and Final Completion construction photographs.
5. Section 01 4000 "Quality Requirements" for submitting test and inspection reports, and schedule of tests and inspections.
6. Section 01 7700 "Closeout Procedures" for submitting closeout submittals and maintenance material submittals.
7. Section 01 7823 "Operation and Maintenance Data" for submitting operation and maintenance manuals.
8. Section 01 7839 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.
9. Section 01 7900 "Demonstration and Training" for submitting video recordings of demonstration of equipment and training of Owner's personnel.

1.2 DEFINITIONS

A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."

B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."

1.3 SUBMITTAL SCHEDULE

A. Submittal Schedule: Submit, as an action submittal, a list of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates.

Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.

1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
2. Final Submittal Schedule: Submit concurrently with the first complete submittal of Contractor's construction schedule.
    a. Submit revised submittal schedule as required to reflect changes in current status and timing for submittals.
3. Format: Arrange the following information in a tabular format:
    a. Scheduled date for first submittal.
    b. Specification Section number and title.
    c. Submittal Category: Action; informational.
    d. Name of subcontractor.
    e. Description of the Work covered.
    f. Scheduled date for Architect's final release or approval.

1.4 SUBMITTAL FORMATS

A. Submittal Information: Include the following information in each submittal:
1. Project name.
2. Date.
3. Name of Architect.
4. Unique submittal number, including revision identifier. Include Specification Section number with sequential alphanumeric identifier and alphanumeric suffix for resubmittals.
5. Category and type of submittal.
6. Submittal purpose and description.
7. Number and title of Specification Section, with paragraph number and generic name for each of multiple items.
8. Drawing number and detail references, as appropriate.
9. Indication of full or partial submittal.
10. Location(s) where product is to be installed, as appropriate.
11. Other necessary identification.
12. Remarks.
13. Signature of transmitter.

B. Options: Identify options requiring selection by Architect.

C. Deviations and Additional Information: On each submittal, clearly indicate deviations from requirements in the Contract Documents, including minor variations and limitations; include relevant additional information and revisions, other than those requested by Architect on previous submittals. Indicate by highlighting on each submittal or noting on attached separate sheet.

D. Electronic Submittals: Prepare submittals as PDF package, incorporating complete information into each PDF file. Name PDF file with submittal number.

1.5 SUBMITTAL PROCEDURES

A. Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.
   1. Email: Prepare submittals as PDF package and transmit to Architect by sending via email. Include PDF transmittal form. Include information in email subject line as requested by Architect.
      a. Architect will return annotated file. Annotate and retain one copy of file as a digital Project Record Document file.

B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
   1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
   2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
   3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
   4. Coordinate transmittal of submittals for related parts of the Work specified in different Sections, so processing will not be delayed because of need to review submittals concurrently for coordination.
      a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
   1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
   2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
   3. Resubmittal Review: Allow 15 days for review of each resubmittal.
   4. Sequential Review: Where sequential review of submittals by Architect's consultants, Owner, or other parties is indicated, allow 20 days for initial review of each submittal.

D. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
   1. Note date and content of previous submittal.
   2. Note date and content of revision in label or title block, and clearly indicate extent of revision.
   3. Resubmit submittals until they are marked with approval notation from Architect's action stamp.

E. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.

F. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

1.6 SUBMITTAL REQUIREMENTS

A. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
   1. If information must be specially prepared for submittal because standard published data are unsuitable for use, submit as Shop Drawings, not as Product Data.
   2. Mark each copy of each submittal to show which products and options are applicable.
   3. Include the following information, as applicable:
      a. Manufacturer's catalog cuts.
      b. Manufacturer's product specifications.
      c. Standard color charts.
      d. Statement of compliance with specified referenced standards.
      e. Testing by recognized testing agency.
      f. Application of testing agency labels and seals.
      g. Notation of coordination requirements.
      h. Availability and delivery time information.
   4. For equipment, include the following in addition to the above, as applicable:
      a. Wiring diagrams that show factory-installed wiring.
      b. Printed performance curves.
      c. Operational range diagrams.
      d. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
   5. Submit Product Data before Shop Drawings, and before or concurrently with Samples.

B. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data unless submittal based on Architect's digital data drawing files is otherwise permitted.
   1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
      a. Identification of products.
      b. Schedules.
      c. Compliance with specified standards.
      d. Notation of coordination requirements.
      e. Notation of dimensions established by field measurement.
      f. Relationship and attachment to adjoining construction clearly indicated.
      g. Seal and signature of professional engineer if specified.

C. Samples: Submit Samples for review of type, color, pattern, and texture for a check of these characteristics with other materials.
   1. Transmit Samples that contain multiple, related components, such as accessories together in one submittal package.
   2. Identification: Permanently attach label on unexposed side of Samples that includes the following:
      a. Project name and submittal number.

b. Generic description of Sample.
c. Product name and name of manufacturer.
d. Sample source.
e. Number and title of applicable Specification Section.
f. Specification paragraph number and generic name of each item.

3. Email Transmittal: Provide PDF transmittal. Include digital image file illustrating Sample characteristics and identification information for record.
4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
   a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
   b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units, showing the full range of colors, textures, and patterns available.
   a. Number of Samples: Submit one full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.
   a. Number of Samples: Submit three sets of Samples. Architect will retain one Sample set; remainder will be returned. Mark up and retain one returned Sample set as a project record Sample.
      1) Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
      2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.

D. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:
   1. Type of product. Include unique identifier for each product indicated in the Contract Documents or assigned by Contractor if none is indicated.
   2. Manufacturer and product name, and model number if applicable.

E. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.

F. Design Data: Prepare and submit written and graphic information indicating compliance with indicated performance and design criteria in individual Specification Sections. Include list of assumptions and summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Number each page of submittal.

G. Certificates:
   1. Certificates and Certifications Submittals: Submit a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity. Provide a notarized signature where indicated.
   2. Installer Certificates: Submit written statements on manufacturer's letterhead, certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
   3. Manufacturer Certificates: Submit written statements on manufacturer's letterhead, certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
   4. Material Certificates: Submit written statements on manufacturer's letterhead, certifying that material complies with requirements in the Contract Documents.
   5. Product Certificates: Submit written statements on manufacturer's letterhead, certifying that product complies with requirements in the Contract Documents.
   6. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of AWS B2.1/B2.1M on AWS forms. Include names of firms and personnel certified.

H. Test and Research Reports:
   1. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for substrate preparation and primers required.
   2. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.
   3. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
   4. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
   5. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.

6. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project. Include the following information:
   a. Name of evaluation organization.
   b. Date of evaluation.
   c. Time period when report is in effect.
   d. Product and manufacturers' names.
   e. Description of product.
   f. Test procedures and results.
   g. Limitations of use.

1.7 DELEGATED DESIGN SERVICES

A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
   1. If criteria indicated are insufficient to perform services or certification required, submit a written request for additional information to Architect.

B. Delegated Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF file and three paper copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
   1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

1.8 CONTRACTOR'S REVIEW

A. Action Submittals and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.

B. Contractor's Approval: Indicate Contractor's approval for each submittal with a uniform approval stamp. Include name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.
   1. Architect will not review submittals received from Contractor that do not have Contractor's review and approval.

1.9 ARCHITECT'S REVIEW

A. Action Submittals: Architect will review each submittal, indicate corrections or revisions required, and return.
   1. PDF Submittals: Architect will indicate, via markup on each submittal, the appropriate action.

B. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.

C. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from Architect.

D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.

E. Architect will return without review submittals received from sources other than Contractor.

F. Submittals not required by the Contract Documents will be returned by Architect without action.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 3300

SECTION 01 4000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for quality assurance and quality control.

B. Testing and inspection services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
   1. Specific quality-assurance and quality-control requirements for individual work results are specified in their respective Specification Sections. Requirements in individual Sections may also cover production of standard products.
   2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and quality-control procedures that facilitate compliance with the Contract Document requirements.
   3. Requirements for Contractor to provide quality-assurance and quality-control services required by Architect, Owner, Commissioning Authority, or authorities having jurisdiction are not limited by provisions of this Section.

1.2 DEFINITIONS

A. Experienced: When used with an entity or individual, "experienced," unless otherwise further described, means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

B. Field Quality-Control Tests and Inspections: Tests and inspections that are performed on-site for installation of the Work and for completed Work.

C. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, subcontractor, or sub-subcontractor, to perform a particular construction operation, including installation, erection, application, assembly, and similar operations.
   1. Use of trade-specific terminology in referring to a Work result does not require that certain construction activities specified apply exclusively to specific trade(s).

D. Mockups: Physical assemblies of portions of the Work constructed to establish the standard by which the Work will be judged. Mockups are not Samples.
   1. Mockups are used for one or more of the following:
      a. Verify selections made under Sample submittals.
      b. Demonstrate aesthetic effects.
      c. Demonstrate the qualities of products and workmanship.
      d. Demonstrate successful installation of interfaces between components and systems.
      e. Perform preconstruction testing to determine system performance.

2. Product Mockups: Mockups that may include multiple products, materials, or systems specified in a single Section.
3. In-Place Mockups: Mockups constructed on-site in their actual final location as part of permanent construction.

E. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria. Unless otherwise indicated, copies of reports of tests or inspections performed for other than the Project do not meet this definition.

F. Product Tests: Tests and inspections that are performed by a nationally recognized testing laboratory (NRTL) according to 29 CFR 1910.7, by a testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program (NVLAP), or by a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.

G. Source Quality-Control Tests and Inspections: Tests and inspections that are performed at the source (e.g., plant, mill, factory, or shop).

H. Testing Agency: An entity engaged to perform specific tests, inspections, or both. The term "testing laboratory" has the same meaning as the term "testing agency."

I. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work, to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.

J. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work, to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Contractor's quality-control services do not include contract administration activities performed by Architect.

1.3 DELEGATED DESIGN SERVICES

A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.

1.4 CONFLICTING REQUIREMENTS

A. Conflicting Standards and Other Requirements: If compliance with two or more standards or requirements is specified and the standards or requirements establish different or conflicting requirements for minimum quantities or quality levels, inform the Architect regarding the conflict and obtain clarification prior to proceeding with the Work. Refer conflicting requirements that are different, but apparently equal, to Architect for clarification before proceeding.

B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified is the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.5 INFORMATIONAL SUBMITTALS

A. Contractor's Quality-Control Plan: For quality-assurance and quality-control activities and responsibilities.

B. Qualification Data: For Contractor's quality-control personnel.

C. Testing Agency Qualifications: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.

D. Schedule of Tests and Inspections: Prepare in tabular form and include the following:
1. Specification Section number and title.
2. Entity responsible for performing tests and inspections.
3. Description of test and inspection.
4. Identification of applicable standards.
5. Identification of test and inspection methods.
6. Number of tests and inspections required.
7. Time schedule or time span for tests and inspections.
8. Requirements for obtaining samples.
9. Unique characteristics of each quality-control service.

E. Reports: Prepare and submit certified written reports and documents as specified.

F. Permits, Licenses, and Certificates: For Owner's record, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents established for compliance with standards and regulations bearing on performance of the Work.

1.6 CONTRACTOR'S QUALITY-CONTROL PLAN

A. Quality-Control Plan, General: Submit quality-control plan within 10 days of Notice to Proceed, and not less than five days prior to preconstruction conference. Submit in format acceptable to Architect. Identify personnel, procedures, controls, instructions, tests, records, and forms to be used to carry out Contractor's quality-assurance and quality-control responsibilities and to coordinate Owner's quality-assurance and quality-control activities. Coordinate with Contractor's Construction Schedule.

B. Quality-Control Personnel Qualifications: Engage qualified personnel trained and experienced in managing and executing quality-assurance and quality-control procedures similar in nature and extent to those required for Project.

1. Project quality-control manager may also serve as Project superintendent.

C. Submittal Procedure: Describe procedures for ensuring compliance with requirements through review and management of submittal process. Indicate qualifications of personnel responsible for submittal review.

D. Testing and Inspection: In quality-control plan, include a comprehensive schedule of Work requiring testing or inspection, including the following:
1. Contractor-performed tests and inspections, including subcontractor-performed tests and inspections. Include required tests and inspections and Contractor-elected tests and inspections. Distinguish source quality-control tests and inspections from field quality-control tests and inspections.
2. Special inspections required by authorities having jurisdiction and indicated on the Statement of Special Inspections.
3. Owner-performed tests and inspections indicated in the Contract Documents, including tests and inspections indicated to be performed by Commissioning Authority.

E. Continuous Inspection of Workmanship: Describe process for continuous inspection during construction to identify and correct deficiencies in workmanship in addition to testing and inspection specified. Indicate types of corrective actions to be required to bring the Work into compliance with standards of workmanship established by Contract requirements and approved mockups.

F. Monitoring and Documentation: Maintain testing and inspection reports, including log of approved and rejected results. Include Work Architect has indicated as nonconforming or defective. Indicate corrective actions taken to bring nonconforming Work into compliance with requirements. Comply with requirements of authorities having jurisdiction.

1.7 REPORTS AND DOCUMENTS

A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
1. Date of issue.
2. Project title and number.
3. Name, address, telephone number, and email address of testing agency.
4. Dates and locations of samples and tests or inspections.
5. Names of individuals making tests and inspections.
6. Description of the Work and test and inspection method.
7. Identification of product and Specification Section.
8. Complete test or inspection data.
9. Test and inspection results and an interpretation of test results.
10. Record of temperature and weather conditions at time of sample-taking and testing and inspection.
11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
12. Name and signature of laboratory inspector.
13. Recommendations on retesting and reinspecting.

B. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:
   1. Name, address, telephone number, and email address of technical representative making report.
   2. Statement on condition of substrates and their acceptability for installation of product.
   3. Statement that products at Project site comply with requirements.
   4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
   5. Results of operational and other tests and a statement of whether observed performance complies with requirements.
   6. Statement of whether conditions, products, and installation will affect warranty.
   7. Other required items indicated in individual Specification Sections.

C. Factory-Authorized Service Representative's Reports: Prepare written information documenting manufacturer's factory-authorized service representative's tests and inspections specified in other Sections. Include the following:
   1. Name, address, telephone number, and email address of factory-authorized service representative making report.
   2. Statement that equipment complies with requirements.
   3. Results of operational and other tests and a statement of whether observed performance complies with requirements.
   4. Statement of whether conditions, products, and installation will affect warranty.
   5. Other required items indicated in individual Specification Sections.

1.8 QUALITY ASSURANCE

A. Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.

B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units. As applicable, procure products from manufacturers able to meet qualification requirements, warranty requirements, and technical or factory-authorized service representative requirements.

C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

D. Installer Qualifications: A firm or individual experienced in installing, erecting, applying, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.

E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those

performed for installations of the system, assembly, or product that is similar in material, design, and extent to those indicated for this Project.

F. Specialists: Certain Specification Sections require that specific construction activities be performed by entities who are recognized experts in those operations. Specialists will satisfy qualification requirements indicated and engage in the activities indicated.
   1. Requirements of authorities having jurisdiction supersede requirements for specialists.

G. Testing and Inspecting Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspection indicated, as documented in accordance with ASTM E329, and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.

H. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

I. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect, demonstrate, repair, and perform service on installations of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

J. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following Contractor's responsibilities, including the following:
   1. Provide test specimens representative of proposed products and construction.
   2. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.
   3. Provide sizes and configurations of test assemblies, mockups, and laboratory mockups to adequately demonstrate capability of products to comply with performance requirements.
   4. Build site-assembled test assemblies and mockups, using installers who will perform same tasks for Project.
   5. When testing is complete, remove test specimens and test assemblies, and mockups; do not reuse products on Project.
   6. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Architect, with copy to Contractor. Interpret tests and inspections, and state in each report whether tested and inspected Work complies with or deviates from the Contract Documents.

K. Mockups: Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work:
   1. Build mockups of size indicated.
   2. Build mockups in location indicated or, if not indicated, as directed by Architect.
   3. Notify Architect seven days in advance of dates and times when mockups will be constructed.

4. Employ supervisory personnel who will oversee mockup construction. Employ workers who will be employed to perform same tasks during the construction at Project.
5. Demonstrate the proposed range of aesthetic effects and workmanship.
6. Obtain Architect's approval of mockups before starting corresponding Work, fabrication, or construction.
    a. Allow seven days for initial review and each re-review of each mockup.
7. Promptly correct unsatisfactory conditions noted by Architect's preliminary review, to the satisfaction of the Architect, before completion of final mockup.
8. Approval of mockups by the Architect does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
9. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
10. Demolish and remove mockups when directed unless otherwise indicated.

1.9 QUALITY CONTROL

A. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities, whether specified or not, to verify and document that the Work complies with requirements.
    1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
    2. Engage a qualified testing agency to perform quality-control services.
        a. Contractor will not employ same entity engaged by Owner, unless agreed to in writing by Owner.
    3. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspection will be performed.
    4. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
    5. Testing and inspection requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
    6. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.

B. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.

C. Testing Agency Responsibilities: Cooperate with Architect and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
    1. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
    2. Determine the locations from which test samples will be taken and in which in-situ tests are conducted.
    3. Conduct and interpret tests and inspections, and state in each report whether tested and inspected Work complies with or deviates from requirements.

4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
6. Do not perform duties of Contractor.

D. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Section 01 3300 "Submittal Procedures."

E. Manufacturer's Technical Services: Where indicated, engage a manufacturer's technical representative to observe and inspect the Work. Manufacturer's technical representative's services include participation in preinstallation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of the Work, and submittal of written reports.

F. Contractor's Associated Requirements and Services: Cooperate with agencies and representatives performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to the Work.
2. Incidental labor and facilities necessary to facilitate tests and inspections.
3. Adequate quantities of representative samples of materials that require testing and inspection. Assist agency in obtaining samples.
4. Facilities for storage and field curing of test samples.
5. Delivery of samples to testing agencies.
6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
7. Security and protection for samples and for testing and inspection equipment at Project site.

G. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and quality-control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspection.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.

H. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents as a component of Contractor's quality-control plan. Coordinate and submit concurrently with Contractor's Construction Schedule. Update and submit with each Application for Payment.
1. Schedule Contents: Include tests, inspections, and quality-control services, including Contractor- and Owner-retained services, commissioning activities, and other Project-required services paid for by other entities.
2. Distribution: Distribute schedule to Owner, Architect, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
   1. Date test or inspection was conducted.
   2. Description of the Work tested or inspected.
   3. Date test or inspection results were transmitted to Architect.
   4. Identification of testing agency or special inspector conducting test or inspection.

B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's reference during normal working hours.
   1. Submit log at Project closeout as part of Project Record Documents.

3.2 REPAIR AND PROTECTION

A. General: On completion of testing, inspection, sample-taking, and similar services, repair damaged construction and restore substrates and finishes.
   1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Section 01 7300 "Execution."

B. Protect construction exposed by or for quality-control service activities.

C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 01 4000

SECTION 01 5000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.

B. Related Requirements:
1. Section 01 1000 "Summary" for work restrictions and limitations on utility interruptions.

1.2 USE CHARGES

A. Installation, removal, and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities engaged in the Project to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, Architect, testing agencies, and authorities having jurisdiction.

B. Sewer Service: Pay sewer-service use charges for sewer usage by all entities for construction operations.

C. Water Service: Pay water-service use charges for water used by all entities for construction operations.

D. Electric Power Service: Pay electric-power-service use charges for electricity used by all entities for construction operations.

1.3 INFORMATIONAL SUBMITTALS

A. Site Utilization Plan: Show temporary facilities, temporary utility lines and connections, staging areas, construction site entrances, vehicle circulation, and parking areas for construction personnel.

B. Implementation and Termination Schedule: Within 15 days of date established for commencement of the Work, submit schedule indicating implementation and termination dates of each temporary utility.

C. Project Identification and Temporary Signs: Show fabrication and installation details, including plans, elevations, details, layouts, typestyles, graphic elements, and message content.

D. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.

E. Noise and Vibration Control Plan: Identify construction activities that may impact the occupancy and use of existing spaces within the building or adjacent existing buildings, whether occupied by others, or occupied by the Owner. Include the following:
   1. Methods used to meet the goals and requirements of the Owner.
   2. Concrete cutting method(s) to be used.
   3. Location of construction devices on the site.
   4. Show compliance with the use and maintenance of quieted construction devices for the duration of the Project.
   5. Indicate activities that may disturb building occupants and that are planned to be performed during non-standard working hours as coordinated with the Owner.
   6. Indicate locations of sensitive equipment areas or other areas requiring special attention as identified by Owner. Indicate means for complying with Owner's requirements.

1.4 QUALITY ASSURANCE

A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.

B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

C. Accessible Temporary Egress: Comply with applicable provisions in the United States Access Board's ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.

1.5 PROJECT CONDITIONS

A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Portable Chain-Link Fencing: Minimum 2-inch, 0.148-inch-thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch-OD line posts and 2-7/8-inch-OD corner and pull posts, with 1-5/8-inch-OD top and bottom rails. Provide concrete or galvanized-steel bases for supporting posts.

B. Fencing Windscreen Privacy Screen: Polyester fabric scrim with grommets for attachment to chain-link fence, sized to height of fence, in color selected by Architect from manufacturer's standard colors.

2.2 TEMPORARY FACILITIES

A. Field Offices: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.

B. Common-Use Field Office: Of sufficient size to accommodate needs of Owner, Architect, and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly. Furnish and equip offices as follows:
   1. Furniture required for Project-site documents, including file cabinets, plan tables, plan racks, and bookcases.
   2. Conference room of sufficient size to accommodate meetings of 10 individuals. Provide electrical power service and 120-V ac duplex receptacles, with no fewer than one receptacle on each wall. Furnish room with conference table, chairs, and 4-foot-square tack and marker boards.
   3. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68 to 72 deg F.
   4. Lighting fixtures capable of maintaining average illumination of 20 fc at desk height.

C. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
   1. Store combustible materials apart from building.

2.3 EQUIPMENT

A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.
   1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.

PART 3 - EXECUTION

3.1 TEMPORARY FACILITIES, GENERAL

A. Conservation: Coordinate construction and use of temporary facilities with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.
   1. Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work. See other Sections for disposition of salvaged materials that are designated as Owner's property.

3.2 INSTALLATION, GENERAL

A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
   1. Locate facilities to limit site disturbance as specified in Section 01 1000 "Summary."

B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.3 TEMPORARY UTILITY INSTALLATION

A. General: Install temporary service or connect to existing service.
   1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.

B. Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.
   1. Connect temporary sewers to municipal system as directed by authorities having jurisdiction.

C. Water Service: Install water service and distribution piping in sizes and pressures adequate for construction.

D. Sanitary Facilities: Provide temporary toilets, wash facilities, safety shower and eyewash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

E. Temporary Heating and Cooling: Provide temporary heating and cooling required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed.
   1. Provide temporary dehumidification systems when required to reduce ambient and substrate moisture levels to level required to allow installation or application of finishes and their proper curing or drying.

F. Electric Power Service: Provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations.
   1. Install electric power service overhead unless otherwise indicated.
   2. Connect temporary service to Owner's existing power source, as directed by Owner.

G. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
   1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.

3.4 SUPPORT FACILITIES INSTALLATION

A. Comply with the following:
   1. Provide construction for temporary field offices, shops, and sheds located within construction area or within 30 feet of building lines that is noncombustible in accordance with ASTM E136. Comply with NFPA 241.
   2. Maintain support facilities until Architect schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after

Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.

B. Temporary Use of Planned Permanent Roads and Paved Areas: Locate temporary roads and paved areas in same location as permanent roads and paved areas. Construct and maintain temporary roads and paved areas adequate for construction operations. Extend temporary roads and paved areas, within construction limits indicated, as necessary for construction operations.
   1. Coordinate elevations of temporary roads and paved areas with permanent roads and paved areas.
   2. Prepare subgrade and install subbase and base for temporary roads and paved areas in accordance with Section 31 2000 "Earth Moving."
   3. Delay installation of final course of permanent hot-mix asphalt pavement until immediately before Substantial Completion. Repair hot-mix asphalt base-course pavement before installation of final course in accordance with Section 32 1216 "Asphalt Paving."

C. Traffic Controls: Comply with requirements of authorities having jurisdiction.
   1. Protect existing site improvements to remain, including curbs, pavement, and utilities.
   2. Maintain access for fire-fighting equipment and access to fire hydrants.

D. Parking: Provide temporary offsite parking areas for construction personnel.

E. Storage and Staging: Provide temporary offsite area for storage and staging needs.

F. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.
   1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties or endanger permanent Work or temporary facilities.
   2. Remove snow and ice as required to minimize accumulations.

G. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.
   1. Identification Signs: Provide Project identification signs as indicated on Drawings.
   2. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
      a. Provide temporary, directional signs for construction personnel and visitors.
      b. Provide maintenance of traffic sings.
   3. Maintain and touch up signs, so they are legible at all times.

H. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with progress cleaning requirements in Section 01 7300 "Execution."

3.5 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.

1. Where access to adjacent properties is required in order to affect protection of existing facilities, obtain written permission from adjacent property owner to access property for that purpose.

B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
   1. Comply with work restrictions specified in Section 01 1000 "Summary."

C. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and Specifications, and requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
   1. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross tree- or plant-protection zones.
   2. Inspect, repair, and maintain erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
   3. Clean, repair, and restore adjoining properties and roads affected by erosion and sedimentation from Project site during the course of Project.
   4. Remove erosion and sedimentation controls, and restore and stabilize areas disturbed during removal.

D. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.

E. Tree and Plant Protection: Comply with requirements specified in Section 01 5639 "Temporary Tree and Plant Protection."

F. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people from easily entering site except by entrance gates.
   1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.
   2. Maintain security by limiting number of keys and restricting distribution to authorized personnel.

G. Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each workday.

H. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

I. Temporary Egress: Provide temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction. Provide signage directing occupants to temporary egress.

J. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.
   1. Where heating or cooling is needed and permanent enclosure is incomplete, insulate temporary enclosures.

K. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program.
   1. Prohibit smoking in construction areas. Comply with additional limits on smoking specified in other Sections.
   2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition in accordance with requirements of authorities having jurisdiction.
   3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
   4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign, stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.6 OPERATION, TERMINATION, AND REMOVAL

A. Maintenance: Maintain facilities in good operating condition until removal.
   1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.

B. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.

C. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
   1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
   2. Remove temporary roads and paved areas not intended for or acceptable for integration into permanent construction. Where area is intended for landscape development, remove soil and aggregate fill that do not comply with requirements for fill or subsoil. Remove materials contaminated with road oil, asphalt and other petrochemical compounds, and other substances that might impair growth of plant

materials or lawns. Repair or replace street paving, curbs, and sidewalks at temporary entrances, as required by authorities having jurisdiction.

3. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 01 7700 "Closeout Procedures."

END OF SECTION 01 5000

SECTION 01 7300 - EXECUTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes general administrative and procedural requirements governing execution of the Work, including, but not limited to, the following:
   1. Construction layout.
   2. Field engineering and surveying.
   3. Installation of the Work.
   4. Cutting and patching.
   5. Coordination of Owner-installed products.
   6. Progress cleaning.
   7. Starting and adjusting.
   8. Protection of installed construction.
   9. Correction of the Work.

B. Related Requirements:
   1. Section 01 1000 "Summary" for limits on use of Project site.
   2. Section 01 3300 "Submittal Procedures" for submitting surveys.
   3. Section 01 7700 "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, replacing defective work, and final cleaning.
   4. Section 02 4119 "Selective Demolition" for demolition and removal of selected portions of the site.

1.2 DEFINITIONS

A. Cutting: Removal of in-place construction necessary to permit installation or performance of subsequent work.

B. Patching: Fitting and repair work required to restore construction to original conditions after installation of subsequent work.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For land surveyor or professional engineer.

B. Certificates: Submit certificate signed by land surveyor or professional engineer, certifying that location and elevation of improvements comply with requirements.

1.4 QUALITY ASSURANCE

A. Land Surveyor Qualifications: A professional land surveyor who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing land-surveying services of the kind indicated.

B. Professional Engineer Qualifications: Refer to Section 01 4000 "Quality Requirements."

C. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
   1. Structural Elements: When cutting and patching structural elements, or when encountering the need for cutting and patching of elements whose structural function is not known, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.
   2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. Operational elements include the following:
      a. Water and sewer systems.
      b. Mechanical systems piping and ducts.
      c. Communication systems.
      d. Electrical wiring systems.
   3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.
   4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

D. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of specified products and equipment.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Comply with requirements specified in other Sections.

B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
   1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials. Use materials that are not considered hazardous.

C. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities, and other construction affecting the Work.
   1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, gas service piping, and water-service piping; underground electrical services; and other utilities.
   2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.

B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
   1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
   2. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.

C. Written Report: Where a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:
   1. Description of the Work, including Specification Section number and paragraph, and Drawing sheet number and detail, where applicable.
   2. List of detrimental conditions, including substrates.
   3. List of unacceptable installation tolerances.
   4. Recommended corrections.

D. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Existing Utility Information: Furnish information to local utility and Owner that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.

B. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.

D. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents, submit a request for information to Architect in accordance with requirements in Section 01 3100 "Project Management and Coordination."

3.3 CONSTRUCTION LAYOUT

A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks and existing conditions. If discrepancies are discovered, notify Architect promptly.

B. Engage a land surveyor or professional engineer experienced in laying out the Work, using the following accepted surveying practices:
   1. Establish benchmarks and control points to set lines and levels at each story of construction and elsewhere as needed to locate each element of Project.
   2. Establish limits on use of Project site.
   3. Establish dimensions within tolerances indicated. Do not scale Drawings to obtain required dimensions.
   4. Inform installers of lines and levels to which they must comply.
   5. Check the location, level and plumb, of every major element as the Work progresses.
   6. Notify Architect when deviations from required lines and levels exceed allowable tolerances.

C. Site Improvements: Locate and lay out site improvements, including pavements, grading, fill and topsoil placement, utility slopes, and rim and invert elevations.

D. Lines and Levels: Locate and lay out control lines and levels for structures, foundations, and columns, including those required for mechanical and electrical work. Transfer survey markings and elevations for use with control lines and levels. Level foundations and piers from two or more locations.

E. Record Log: Maintain a log of layout control work. Record deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used. Make the log available for reference by Architect.

3.4 FIELD ENGINEERING

A. Reference Points: Locate existing permanent benchmarks, control points, and similar reference points before beginning the Work. Preserve and protect permanent benchmarks and control points during construction operations.
   1. Do not change or relocate existing benchmarks or control points without prior written approval of Architect. Report lost or destroyed permanent benchmarks or control points promptly. Report the need to relocate permanent benchmarks or control points to Architect before proceeding.
   2. Replace lost or destroyed permanent benchmarks and control points promptly. Base replacements on the original survey control points.

B. Benchmarks: Establish and maintain a minimum of two permanent benchmarks on Project site, referenced to data established by survey control points. Comply with authorities having jurisdiction for type and size of benchmark.
   1. Record benchmark locations, with horizontal and vertical data, on Project Record Documents.
   2. Where the actual location or elevation of layout points cannot be marked, provide temporary reference points sufficient to locate the Work.
   3. Remove temporary reference points when no longer needed. Restore marked construction to its original condition.

3.5 INSTALLATION

A. Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
   1. Make vertical work plumb, and make horizontal work level.
   2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
   3. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.
   4. Maintain minimum headroom clearance of 96 inches, unless otherwise indicated on Drawings.

B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

C. Install products at the time and under conditions that will ensure satisfactory results as judged by Architect. Maintain conditions required for product performance until Substantial Completion.

D. Conduct construction operations, so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy of type expected for Project.

E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on-site and placement in permanent locations.

F. Tools and Equipment: Select tools or equipment that minimize production of excessive noise levels.

G. Templates: Obtain and distribute to the parties involved templates for Work specified to be factory prepared and field installed. Check Shop Drawings of other portions of the Work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.

H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions with manufacturer.
   1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.

2. Allow for movement, including thermal expansion and contraction.
3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

I. Joints: Make joints of uniform width. Where joint locations in exposed Work are not indicated, arrange joints for the best visual effect, as judged by Architect. Fit exposed connections together to form hairline joints.

3.6 CUTTING AND PATCHING

A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

B. Temporary Support: Provide temporary support of Work to be cut.

C. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

D. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching in accordance with requirements in Section 01 1000 "Summary" and Section 01 5526 “Maintenance of Traffic”.

E. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to occupied areas.

F. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction.
1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
4. Excavating and Backfilling: Comply with requirements in applicable Sections where required by cutting and patching operations.
5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
6. Proceed with patching after construction operations requiring cutting are complete.

G. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as practicable, as judged by Architect. Provide materials and comply with installation requirements specified in other Sections, where applicable.
   1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
   2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
      a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
      b. Restore damaged pipe covering to its original condition.

H. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.7 PROGRESS CLEANING

A. Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
   1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
   2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F.
   3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
      a. Use containers intended for holding waste materials of type to be stored.

B. Site: Maintain Project site free of waste materials and debris.

C. Work Areas: Clean areas where Work is in progress to the level of cleanliness necessary for proper execution of the Work.
   1. Remove liquid spills promptly.
   2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.

E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.

F. Exposed Surfaces: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in Section 01 7419 "Construction Waste Management and Disposal."

H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.

J. Limiting Exposures: Supervise construction operations to ensure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.8 PROTECTION OF INSTALLED CONSTRUCTION

A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

B. Protection of Existing Items: Provide protection and ensure that existing items to remain undisturbed by construction are maintained in condition that existed at commencement of the Work.

C. Comply with manufacturer's written instructions for temperature and relative humidity.

3.9 CORRECTION OF THE WORK

A. Repair or remove and replace damaged, defective, or nonconforming Work. Restore damaged substrates and finishes.
   1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.

B. Repair Work previously completed and subsequently damaged during construction period. Repair to like-new condition.

C. Restore permanent facilities used during construction to their specified condition.

D. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.

E. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.

END OF SECTION 01 7300

SECTION 01 7419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for the following:
   1. Salvaging nonhazardous demolition and construction waste.
   2. Recycling nonhazardous demolition and construction waste.
   3. Disposing of nonhazardous demolition and construction waste.

B. Related Requirements:
   1. Section 31 1000 "Site Clearing" for disposition of waste resulting from site clearing and removal of above- and below-grade improvements.

1.2 DEFINITIONS

A. Construction Waste: Building, structure, and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.

B. Demolition Waste: Building, structure, and site improvement materials resulting from demolition operations.

C. Disposal: Removal of demolition or construction waste and subsequent salvage, sale, recycling, or deposit in landfill, incinerator acceptable to authorities having jurisdiction, or designated spoil areas on Owner’s property.

D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.

E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.

F. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.3 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition and construction waste becomes property of Contractor.

B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
   1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General: Where possible and applicable, recycle demolition waste. Practice efficient waste management in the use of materials in the course of the Work. Use all reasonable means to divert construction and demolition waste from landfills and incinerators.

PART 3 - EXECUTION

3.1 IMPLEMENTATION

A. General: Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.
   1. Comply with operation, termination, and removal requirements in Section 01 5000 "Temporary Facilities and Controls."

B. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
   1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged and recycled.
   2. Comply with Section 01 5000 "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.

3.2 SALVAGING DEMOLITION WASTE

A. Comply with requirements in Section 02 4119 "Selective Demolition" for salvaging demolition waste.

3.3 RECYCLING DEMOLITION AND CONSTRUCTION WASTE, GENERAL

A. Preparation of Waste: Prepare and maintain recyclable waste materials according to recycling or reuse facility requirements. Maintain materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process.

B. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction waste management plan.
   1. Remove recyclable waste from Owner's property and transport to recycling receiver or processor as often as required to prevent overfilling bins.

3.4 RECYCLING DEMOLITION WASTE

A. Asphalt Paving: Break up and transport paving to asphalt-recycling facility.

B. Concrete: Remove reinforcement and other metals from concrete, break up and transport paving to concrete-recycling facility.

C. Metals: Separate metals by type.

D. Conduit: Reduce conduit to straight lengths and store by material and size.

3.5 DISPOSAL OF WASTE

A. General: Except for items or materials to be salvaged or recycled, remove waste materials from Project site and legally dispose of them in a landfill acceptable to authorities having jurisdiction.
   1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
   2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
   3. If hazardous waste is encountered, notify Owner and Architect immediately. Hazardous waste shall be quantified and documented. Remove hazardous waste promptly once documentation is complete. Submit copy of receipts issued by a landfill facility licensed to accept hazardous materials, for hazardous waste disposal.

B. Burning: Do not burn waste materials.

END OF SECTION 01 7419

SECTION 01 7700 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for Contract closeout, including, but not limited to, the following:
   1. Substantial Completion procedures.
   2. Final completion procedures.
   3. Warranties.
   4. Final cleaning.
   5. Repair of the Work.

B. Related Requirements:
   1. Section 01 2900 "Payment Procedures" for requirements for Applications for Payment for Substantial Completion and Final Completion.
   2. Section 01 7839 "Project Record Documents" for submitting Record Drawings, Record Specifications, and Record Product Data.

1.2 DEFINITIONS

A. List of Incomplete Items: Contractor-prepared list of items to be completed or corrected, prepared for the Architect's use prior to Architect's inspection, to determine if the Work is substantially complete.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of cleaning agent.

B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.

C. Certified List of Incomplete Items: Final submittal at Final Completion.

1.4 CLOSEOUT SUBMITTALS

A. Certificates of Release: From authorities having jurisdiction.

B. Certificate of Insurance: For continuing coverage.

C. Field Report: For pest-control inspection.

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Schedule of Maintenance Material Items: For maintenance material submittal items required by other Sections.

1.6 SUBSTANTIAL COMPLETION PROCEDURES

A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's "punch list"), indicating the value of each item on the list and reasons why the Work is incomplete.

B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
   1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction, permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
   2. Submit closeout submittals specified in other Division 01 Sections, including Project Record Documents, operation and maintenance manuals, damage or settlement surveys, property surveys, and similar final record information.
   3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
   4. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number.
   5. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.

C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
   1. Advise Owner of pending insurance changeover requirements.
   2. Complete startup and testing of systems and equipment.
   3. Perform preventive maintenance on equipment used prior to Substantial Completion.
   4. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems. Submit demonstration and training video recordings specified in Section 01 7900 "Demonstration and Training."
   5. Advise Owner of changeover in utility services.
   6. Participate with Owner in conducting inspection and walkthrough with local emergency responders.
   7. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
   8. Complete final cleaning requirements.
   9. Touch up paint and otherwise repair and restore marred exposed finishes to eliminate visual defects.

D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the Work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on

Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.

1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
2. Results of completed inspection will form the basis of requirements for Final Completion.

1.7 FINAL COMPLETION PROCEDURES

A. Submittals Prior to Final Completion: Before requesting final inspection for determining Final Completion, complete the following:
   1. Submit a final Application for Payment in accordance with Section 01 2900 "Payment Procedures."
   2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
   3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
   4. Submit Final Completion photographic documentation.

B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the Work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
   1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.8 LIST OF INCOMPLETE ITEMS

A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
   1. Organize list of spaces in sequential order, listed by Drawing number.
   2. Include the following information at the top of each page:
      a. Project name.
      b. Date.
      c. Name of Architect.
      d. Name of Contractor.
      e. Page number.

1.9 SUBMITTAL OF PROJECT WARRANTIES

A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where warranties are indicated to commence on dates other than date of Substantial Completion, or when delay in submittal of warranties might limit Owner's rights under warranty.

B. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.

C. Warranty Electronic File: Provide warranties and bonds in PDF format. Assemble complete warranty and bond submittal package into a single electronic PDF file with bookmarks enabling navigation to each item. Provide bookmarked table of contents at beginning of document.
   1. Submit on digital media acceptable to Architect or by email to Architect.

D. Warranties in Paper Form:
   1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch paper.
   2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
   3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.

E. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 FINAL CLEANING

A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.

B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
   1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
      a. Clean Project site of rubbish, waste material, litter, and other foreign substances.

b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
c. Rake grounds that are not planted, mulched, or paved to a smooth, even-textured surface.
d. Remove tools, construction equipment, machinery, and surplus material from Project site.
e. Remove snow and ice to provide safe access to buildings.
f. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
g. Remove debris and surface dust from limited-access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
h. Remove labels that are not permanent.
i. Clean luminaires, lamps, globes, and reflectors to function with full efficiency.
j. Leave Project clean and ready for occupancy.

C. Pest Control: Comply with pest control requirements in Section 01 5000 "Temporary Facilities and Controls." Prepare written report.

D. Construction Waste Disposal: Comply with waste-disposal requirements in Section 01 5000 "Temporary Facilities and Controls." and Section 01 7419 "Construction Waste Management and Disposal."

3.2 REPAIR OF THE WORK

A. Complete repair and restoration operations required by Section 01 7300 "Execution" before requesting inspection for determination of Substantial Completion.

END OF SECTION 01 7700

SECTION 01 7839 - PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for Project Record Documents, including the following:
   1. Record Drawings.
   2. Record specifications.
   3. Record Product Data.
   4. Miscellaneous record submittals.

B. Related Requirements:
   1. Section 01 7300 "Execution" for final property survey.
   2. Section 01 7700 "Closeout Procedures" for general closeout procedures.

1.2 CLOSEOUT SUBMITTALS

A. Record Drawings: Comply with the following:
   1. Number of Copies: Submit copies of Record Drawings as follows:
      a. Initial Submittal:
         1) Submit Record Digital Data Files.
         2) Architect will indicate whether general scope of changes, additional information recorded, and quality of drafting are acceptable.
      b. Final Submittal:
         1) Submit Record Digital Data Files.
         2) Include each drawing file, whether or not changes and additional information were recorded.

B. Record Specifications: Submit annotated PDF electronic files, including addenda and Contract modifications.

C. Record Product Data: Submit annotated PDF electronic files and directories and directories of each submittal.
   1. Where record Product Data are required as part of operation and maintenance manuals, submit duplicate marked-up Product Data as a component of manual.

D. Miscellaneous Record Submittals: See other Specification Sections for miscellaneous record-keeping requirements and submittals in connection with various construction activities. Submit annotated PDF electronic files and directories.

E. Reports: Submit written report indicating items incorporated into Project Record Documents concurrent with progress of the Work, including revisions, concealed conditions, field changes, product selections, and other notations incorporated.

1.3 RECORD DRAWINGS

A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised drawings as modifications are issued.
   1. Preparation: Mark record prints to show the actual installation, where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.
      a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
      b. Accurately record information in an acceptable drawing technique.
      c. Record data as soon as possible after obtaining it.
      d. Record and check the markup before enclosing concealed installations.
      e. Cross-reference record prints to corresponding photographic documentation.
   2. Content: Types of items requiring marking include, but are not limited to, the following:
      a. Dimensional changes to Drawings.
      b. Revisions to details shown on Drawings.
      c. Depths of foundations.
      d. Locations and depths of underground utilities.
      e. Revisions to routing of piping and conduits.
      f. Revisions to electrical circuitry.
      g. Actual equipment locations.
      h. Duct size and routing.
      i. Locations of concealed internal utilities.
      j. Changes made by Change Order or Construction Change Directive.
      k. Changes made following Architect's written orders.
      l. Details not on the original Contract Drawings.
      m. Field records for variable and concealed conditions.
      n. Record information on the Work that is shown only schematically.
   3. Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
   4. Mark record prints with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
   5. Mark important additional information that was either shown schematically or omitted from original Drawings.
   6. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.

B. Record Digital Data Files: Immediately before inspection for Certificate of Substantial Completion, review marked-up record prints with Architect. When authorized, prepare a full set of corrected digital data files of the Contract Drawings, as follows:
   1. Format: DWG, Version AutoCAD 2020, Microsoft Windows operating system.
   2. Incorporate changes and additional information previously marked on record prints. Delete, redraw, and add details and notations where applicable.
   3. Refer instances of uncertainty to Architect for resolution.

4. Architect will furnish Contractor with one set of digital data files of the Contract Drawings for use in recording information.
    a. See Section 01 3100 "Project Management and Coordination" for requirements related to use of Architect's digital data files.
    b. Architect will provide data file layer information. Record markups in separate layers.

C. Format: Identify and date each Record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
1. Format: Annotated PDF electronic file with comment function enabled.
2. Record Digital Data Files: Organize digital data information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each digital data file.
3. Identification: As follows:
    a. Project name.
    b. Date.
    c. Designation "PROJECT RECORD DRAWINGS."
    d. Name of Architect.
    e. Name of Contractor.

1.4 RECORD SPECIFICATIONS

A. Preparation: Mark Specifications to indicate the actual product installation, where installation varies from that indicated in Specifications, addenda, and Contract modifications.
1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
4. For each principal product, indicate whether Record Product Data has been submitted in operation and maintenance manuals instead of submitted as Record Product Data.
5. Note related Change Orders, Record Product Data, and Record Drawings where applicable.

B. Format: Submit record specifications as annotated PDF electronic file.

1.5 RECORD PRODUCT DATA

A. Recording: Maintain one copy of each submittal during the construction period for Project Record Document purposes. Post changes and revisions to Project Record Documents as they occur; do not wait until end of Project.

B. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.
1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.

2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
3. Note related Change Orders, Record Specifications, and Record Drawings where applicable.

C. Format: Submit Record Product Data as annotated PDF electronic file.
1. Include Record Product Data directory organized by Specification Section number and title, electronically linked to each item of Record Product Data.

1.6 MISCELLANEOUS RECORD SUBMITTALS

A. Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.

B. Format: Submit miscellaneous record submittals as PDF electronic file.
1. Include miscellaneous record submittals directory organized by Specification Section number and title, electronically linked to each item of miscellaneous record submittals.

1.7 MAINTENANCE OF RECORD DOCUMENTS

A. Maintenance of Record Documents: Store Record Documents in the field office apart from the Contract Documents used for construction. Do not use Project Record Documents for construction purposes. Maintain Record Documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to Project Record Documents for Architect's reference during normal working hours.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 7839

SECTION 02 4119 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Demolition and removal of selected site elements.
   2. Salvage of existing items to be reused or recycled.

B. Related Requirements:
   1. Section 01 1000 "Summary" for restrictions on use of the premises, Owner-occupancy requirements, and phasing requirements.
   2. Section 01 7300 "Execution" for cutting and patching procedures.
   3. Section 31 1000 "Site Clearing" for site clearing and removal of above- and below-grade improvements not part of selective demolition.

1.2 DEFINITIONS

A. Remove: Detach items from existing construction and dispose of them off-site unless indicated to be salvaged or reinstalled.

B. Remove and Salvage: Detach items from existing construction, in a manner to prevent damage, and deliver to Owner ready for reuse or store.

C. Remove and Reinstall: Detach items from existing construction, in a manner to prevent damage, prepare for reuse, and reinstall where indicated.

D. Existing to Remain: Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

E. Dismantle: To remove by disassembling or detaching an item from a surface, using gentle methods and equipment to prevent damage to the item and surfaces; disposing of items unless indicated to be salvaged or reinstalled.

1.3 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes property of Contractor.

B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
   1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.4 PREINSTALLATION MEETINGS

A. Pre-demolition Conference: Conduct conference at Project site.

1. Inspect and discuss condition of construction to be selectively demolished.
2. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
3. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
4. Review areas where existing construction is to remain and requires protection.

1.5 INFORMATIONAL SUBMITTALS

A. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control and, for noise control. Indicate proposed locations and construction of barriers.

B. Schedule of Selective Demolition Activities: Indicate the following:
1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's building manager's and other tenants' on-site operations are uninterrupted.
2. Interruption of utility services. Indicate how long utility services will be interrupted.
3. Coordination for shutoff, capping, and continuation of utility services.
4. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.

C. Pre-demolition Photographs or Video: Show existing conditions of adjoining construction, including finish surfaces, that might be misconstrued as damage caused by salvage and demolition operations. Comply with Section 01 3233 "Photographic Documentation." Submit before Work begins.

1.6 CLOSEOUT SUBMITTALS

A. Inventory: Submit a list of items that have been removed and salvaged.

B. Project Record Documents: Accurately record actual locations of capped utilities, concealed utilities discovered during demolition, and subsurface conditions.

1.7 FIELD CONDITIONS

A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.

B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.

1. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.

E. Storage or sale of removed items or materials on-site is not permitted.

F. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
1. Maintain fire-protection facilities in service during selective demolition operations.

1.8 COORDINATION

A. Arrange selective demolition schedule so as not to interfere with Owner's operations.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Standards: Comply with ANSI/ASSP A10.6 and NFPA 241.

C. Backfill: Backfill materials shall be as indicated on Drawings and as specified in Section 31 2000 “Earth Moving”.

D. Pipe Plugs: Pipe plugs shall be of the manufactured mechanical variety and shall not rely on inflatable means to form a positive seal.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting selective demolition operations.

B. Review Project Record Documents of existing construction or other existing condition and hazardous material information provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in Project Record Documents.

C. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs or video.
1. Inventory and record the condition of items to be removed and salvaged. Provide photographs or video conditions that might be misconstrued as damage caused by salvage operations.
2. Before selective demolition or removal of existing building elements that will be reproduced or duplicated in final Work, make permanent record of measurements, materials, and construction details required to make exact reproduction.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.

B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.
   1. Owner will arrange to shut off services/systems operated by Owner when requested by Contractor.
   2. Arrange to shut off utilities with utility companies.
   3. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
   4. Disconnect, demolish, and remove plumbing, equipment, and components indicated on Drawings to be removed.
      a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
      b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
      c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
      d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
      e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
      f. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
      g. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material and leave in place.

3.3 PROTECTION

A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
   1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
   2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
   3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
   4. Cover and protect furniture, furnishings, and equipment that have not been removed.
   5. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Section 01 5000 "Temporary Facilities and Controls."

B. Remove temporary barricades and protections where hazards no longer exist.

3.4 SELECTIVE DEMOLITION, GENERAL

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
   1. Proceed with selective demolition systematically.
   2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
   3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
   4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
   5. Maintain fire watch during and for at least five hours after flame-cutting operations.
   6. Maintain adequate ventilation when using cutting torches.
   7. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
   8. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
   9. Dispose of demolished items and materials promptly. Comply with requirements in Section 01 7419 "Construction Waste Management and Disposal."

B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

C. Removed and Salvaged Items:
   1. Clean salvaged items.
   2. Pack or crate items after cleaning. Identify contents of containers.
   3. Store items in a secure area until delivery to Owner.
   4. Transport items to Owner's storage area off-site designated by Owner.
   5. Protect items from damage during transport and storage.

D. Removed and Reinstalled Items:
   1. Clean and repair items to functional condition adequate for intended reuse.
   2. Pack or crate items after cleaning and repairing. Identify contents of containers.
   3. Protect items from damage during transport and storage.
   4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.5 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

A. Concrete: Demolish in small sections. Using power-driven saw, cut concrete to a depth of at least 3/4 inch at junctures with construction to remain. Dislodge concrete from reinforcement at perimeter of areas being demolished, cut reinforcement, and then remove remainder of concrete. Neatly trim openings to dimensions indicated.

B. Concrete: Demolish in sections. Cut concrete full depth at junctures with construction to remain and at regular intervals using power-driven saw, and then remove concrete between saw cuts.

C. Masonry: Demolish in small sections. Cut masonry at junctures with construction to remain, using power-driven saw, and then remove masonry between saw cuts.

D. Concrete Slabs-on-Grade: Saw-cut perimeter of area to be demolished, and then break up and remove.

3.6 DISPOSAL OF DEMOLISHED MATERIALS

A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction. and recycle or dispose of them according to Section 01 7419 "Construction Waste Management and Disposal."
   1. Do not allow demolished materials to accumulate on-site.
   2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
   3. Comply with requirements specified in Section 01 7419 "Construction Waste Management and Disposal."

B. Burning: Do not burn demolished materials.

3.7 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 02 4119

SECTION 05 5213 - PIPE AND TUBE RAILINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Aluminum railings.

1.2 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

1.3 ACTION SUBMITTALS

A. Product Data:
   1. Bituminous paint.
   2. Nonshrink, nonmetallic grout.
   3. Painted Metal finishes.
   4. Paint products.

B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.

C. Samples for Initial Selection: For products involving selection of color, texture, or design.

1.4 INFORMATIONAL SUBMITTALS

A. Welding certificates.

1.5 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel in accordance with the following:
   1. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."

1.6 DELIVERY, STORAGE, AND HANDLING

A. Protect finishes on exposed surfaces of railings from damage by applying a strippable, temporary protective covering before shipping.

1.7 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with railings by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Structural Performance: Railings, including attachment to building construction, withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
   1. Handrails and Top Rails of Guards:
      a. Uniform load of 50 lbf/ ft. applied in any direction.
      b. Concentrated load of 200 lbf applied in any direction.
      c. Uniform and concentrated loads need not be assumed to act concurrently.
   2. Infill of Guards:
      a. Concentrated load of 50 lbf applied horizontally on an area of 1 sq. ft..
      b. Infill load and other loads need not be assumed to act concurrently.

B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
   1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.2 METALS, GENERAL

A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.

2.3 ALUMINUM RAILINGS

A. Source Limitations: Obtain each type of railing from single source from single manufacturer.

B. Aluminum, General: Provide alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with not less than the strength and durability properties of alloy and temper designated below for each aluminum form required.

C. Extruded Bars and Tubing: ASTM B221, Alloy 6063-T5/T52.

D. Extruded Structural Pipe and Round Tubing: ASTM B429/B429M, Alloy 6063-T6.
   1. Provide Standard Weight (Schedule 40) pipe unless otherwise indicated.

E. Drawn Seamless Tubing: ASTM B210/B210M, Alloy 6063-T832.

F. Plate and Sheet: ASTM B209, Alloy 6061-T6.

G. Die and Hand Forgings: ASTM B247, Alloy 6061-T6.

H. Castings: ASTM B26/B26M, Alloy A356.0-T6.

2.4 FASTENERS

A. Fastener Materials:

1. Aluminum Railing Components: Type 304 stainless steel fasteners.
2. Finish exposed fasteners to match appearance, including color and texture, of railings.

B. Fasteners for Anchoring Railings to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction and capable of withstanding design loads.

C. Fasteners for Interconnecting Railing Components:
1. Provide concealed fasteners for interconnecting railing components and for attaching them to other work, unless otherwise indicated.
2. Provide concealed fasteners for interconnecting railing components and for attaching them to other work, unless exposed fasteners are unavoidable or are the standard fastening method for railings indicated.
3. Provide tamper-resistant flat-head machine screws for exposed fasteners unless otherwise indicated.

2.5 MISCELLANEOUS MATERIALS

A. Welding Rods and Bare Electrodes: Select in accordance with AWS specifications for metal alloy welded.
1. For aluminum railings, provide type and alloy as recommended by producer of metal to be welded and as required for color match, strength, and compatibility in fabricated items.

B. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.
1. Use primer containing pigments that make it easily distinguishable from zinc-rich primer.

C. Epoxy Intermediate Coat: Complying with MPI #77 and compatible with primer and topcoat.

D. Polyurethane Topcoat: Complying with MPI #72 and compatible with undercoat.

E. Bituminous Paint: Cold-applied asphalt emulsion, complying with ASTM D1187/D1187M.

F. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout, complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

2.6 FABRICATION

A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.

B. Shop assemble railings to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations.

1. Clearly mark units for reassembly and coordinated installation.
2. Use connections that maintain structural value of joined pieces.

C. Cut, drill, and punch metals cleanly and accurately.
1. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated.
2. Remove sharp or rough areas on exposed surfaces.

D. Form work true to line and level with accurate angles and surfaces.

E. Fabricate connections that are exposed to weather in a manner that excludes water.
1. Provide weep holes where water may accumulate.
2. Locate weep holes in inconspicuous locations.

F. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.

G. Connections: Fabricate railings with welded connections unless otherwise indicated.

H. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.
1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove flux immediately.
4. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Finish #1 welds; ornamental quality with no evidence of a welded joint.

I. Welded Connections for Aluminum Pipe: Fabricate railings to interconnect members with concealed internal welds that eliminate surface grinding, using manufacturer's standard system of sleeve and socket fittings.

J. Nonwelded Connections: Connect members with concealed mechanical fasteners and fittings. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.
1. Fabricate splice joints for field connection, using an epoxy structural adhesive, if this is manufacturer's standard splicing method.

K. Form changes in direction as follows:
1. As detailed.
2. By bending to smallest radius that will not result in distortion of railing member.

L. Bend members in jigs to produce uniform curvature for each configuration required. Maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.

M. Close exposed ends of hollow railing members with prefabricated cap and end fittings of same metal and finish as railings.

2.7 ALUMINUM FINISHES

A. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are unacceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

B. Baked-Enamel or Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils. Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.
   1. Color and Gloss: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Perform cutting, drilling, and fitting required for installing railings.
   1. Fit exposed connections together to form tight, hairline joints.
   2. Install railings level, plumb, square, true to line; without distortion, warp, or rack.
   3. Set railings accurately in location, alignment, and elevation; measured from established lines and levels.
   4. Do not weld, cut, or abrade surfaces of railing components that are coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
   5. Set posts plumb within a tolerance of 1/16 inch in 3 feet.
   6. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.

B. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.
   1. Coat concealed surfaces of aluminum that will be in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

C. Adjust railings before anchoring to ensure matching alignment at abutting joints.

3.2 RAILING CONNECTIONS

A. Nonwelded Connections: Use mechanical or adhesive joints for permanently connecting railing components. Use wood blocks and padding to prevent damage to railing members and fittings. Seal recessed holes of exposed locking screws, using plastic cement filler colored to match finish of railings.

B. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article, whether welding is performed in the shop or in the field.

3.3 ANCHORING POSTS

A. Form or core-drill holes not less than 5 inches deep and 3/4 inch larger than OD of post for installing posts in concrete. Clean holes of loose material, insert posts, and fill annular space between post and concrete with nonshrink, nonmetallic grout, mixed and placed to comply with anchoring material manufacturer's written instructions.

B. Leave anchorage joint exposed with 1/8-inch buildup, sloped away from post.

3.4 REPAIR

A. Touchup Painting:
   1. Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
      a. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.

3.5 CLEANING

A. Clean aluminum by washing thoroughly with clean water and soap and rinsing with clean water.

3.6 PROTECTION

A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.

B. Restore finishes damaged during installation and construction period, so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

END OF SECTION 05 5213

SECTION 10 1426 - POST AND PANEL SIGNAGE

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. MUTCD signage.

B. Related Requirements:
   1. Section 01 5000 "Temporary Facilities and Controls" for temporary Project identification signs and for temporary informational and directional signs.
   2. Section 03 3000 "Cast-in-Place Concrete" for concrete foundations, concrete fill in postholes, and setting anchor bolts in concrete foundations for signs.

1.2 COORDINATION

A. Furnish templates and tolerance information for placement of sign-anchorage devices embedded in permanent construction by other installers.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For signage.
   1. Include fabrication and installation details and attachments to other work.
   2. Show sign mounting heights, locations of supplementary supports to be provided by other installers, and accessories.
   3. Show message list, typestyles, graphic elements, and layout for each sign at least half size.

C. Samples for Initial Selection: For Street Name type of sign assembly, exposed component, and exposed finish.
   1. Include representative Samples of available typestyles and graphic symbols.

D. Product Schedule: For post-and-panel and pylon signs. Use same designations indicated on Drawings or specified.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and manufacturer.
   1. Contractor shall submit a list of similar projects completed within the last three years demonstrating manufacturer’s experience with the fabrication of signs that are similar in detail and finish to those specified herein.
   2. Include name of project, location, client, contract name and phone number for a minimum of five similar installations.

B. Sample Warranty: For special warranty.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For signs to include in maintenance manuals.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: All signs shall be manufactured by a single firm specializing in the fabrication of the types of signs indicated.

B. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.7 FIELD CONDITIONS

A. Field Measurements: Verify locations of embedded in permanent construction by other installers by field measurements before fabrication, and indicate measurements on Shop Drawings.

1.8 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Deterioration of finishes beyond normal weathering.
      b. Deterioration of embedded graphic image.
      c. Separation or delamination of sheet materials and components.
   2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Thermal Movements: For exterior signs, allow for thermal movements from ambient and surface temperature changes.
   1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

B. Accessibility Standard: Comply with applicable provisions in U.S. Architectural & Transportation Barriers Compliance Board’s ADA-ABA Accessibility Guidelines for Building and Facilities for signs.

2.2 POST AND PANEL SIGNS

A. Post and Panel Sign Assembly: Signs of one-sided panel configuration; with smooth, uniform surfaces and support assembly; with message and characters having uniform faces, sharp corners, and precisely formed lines and profiles.
   1. Solid-Sheet Sign Panels: Aluminum sheet with finish specified below and as follows:
      a. Thickness: As indicated.
      b. Surface-Applied Graphics: Applied vinyl film, reflective where noted.
      c. Sign-Panel-Back Finish:

1) Integral Aluminum Finish: Clear anodized.

2. Posts: Galvanized steel.
   a. Shape: Square, perforated.
   b. Size: 2 by 2 inches square.
   c. Finish and Color: galvanized.
3. Text and Typeface: typeface matching Architect's sample and content as scheduled per MUTCD.

2.3 MATERIALS

A. Aluminum Sheet and Plate: ASTM B209, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.

B. Aluminum Extrusions: ASTM B221, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.

C. Steel Materials:
   1. Steel Tubing or Pipe: ASTM A500/A500M, Grade B.
   2. Bolts for Steel Framing: ASTM A307 or ASTM F3125/F3125M, Grade A325 as necessary for design loads and connection details.
   3. For steel exposed to view on completion, provide materials having flat, smooth surfaces without blemishes. Do not use materials whose surfaces exhibit pitting, seam marks, roller marks, rolled trade names, or roughness.

D. Vinyl Film: UV-resistant vinyl film of nominal thickness indicated, with pressure-sensitive, permanent adhesive on back; die cut to form characters or images as indicated on Drawings and suitable for exterior applications.

2.4 ACCESSORIES

A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signs, noncorrosive and compatible with each material joined, and complying with the following unless otherwise indicated:
   1. Use concealed fasteners and anchors unless indicated to be exposed.
   2. For exterior exposure, furnish stainless-steel devices unless otherwise indicated.
   3. Exposed Metal-Fastener Components, General:
      a. Fabricated from same basic metal and finish of fastened metal unless otherwise indicated.
      b. Fastener Heads: For nonstructural connections, use pan-head screws and bolts with tamper-resistant, spanner-head slots unless otherwise indicated.

B. Anchoring Materials:
   1. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

2.5 FABRICATION

A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.

1. Preassemble signs in the shop to greatest extent possible. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in locations concealed from view after final assembly.
2. Mill joints to tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
3. Comply with AWS for recommended practices in welding and brazing. Provide welds and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed joints of flux, and dress exposed and contact surfaces.
4. Conceal fasteners and anchors unless indicated to be exposed; locate exposed fasteners where they will be inconspicuous.
5. Internally brace signs for stability, to meet structural performance loading without oil-canning or other surface deformation, and for securing fasteners.

B. Sign Message Panels: Construct sign-panel surfaces to be smooth and to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch measured diagonally from corner to corner.
1. Coordinate dimensions and attachment methods to produce message panels with closely fitting joints. Align edges and surfaces with one another in the relationship indicated.
2. Increase panel thickness or reinforce with concealed stiffeners or backing materials as needed to produce surfaces without distortion, buckles, warp, or other surface deformations.
3. Continuously weld joints and seams unless other methods are indicated; grind, fill, and dress welds to produce smooth, flush, exposed surfaces with welds invisible after final finishing.

C. Post Fabrication: Fabricate posts designed for structural performance indicated and of lengths required for installation method indicated for each sign.
1. Aluminum Posts: Manufacturer's standard 0.125-inch-thick, extruded-aluminum tubing unless otherwise indicated, with brackets or slots to engage sign panels. Include post caps, fillers, spacers, junction boxes, access panels, reinforcement where required for loading conditions, and related accessories required for complete installation.
2. Sleeves: Fabricate posts 24 inches longer than height of sign to permit embedment in sleeves cast in concrete foundations or concrete-filled postholes. Provide sleeves by manufacturer, sized to receive outside diameter of posts. Size sleeves for direct embedment in concrete foundations or concrete-filled postholes and to prevent sign movement, but not less than 36 inches for embedment.

2.6 GENERAL FINISH REQUIREMENTS

A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

C. Directional Finishes: Run grain with long dimension of each piece and perpendicular to long dimension of finished trim or border surface unless otherwise indicated.

2.7 ALUMINUM FINISHES

A. Clear Anodic Finish: AAMA 611, Class I, 0.018 mm or thicker.

B. Baked-Enamel or Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils. Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Verify that sign-support surfaces are within tolerances to accommodate signs.

C. Verify that anchorage devices embedded in permanent construction are correctly sized and located to accommodate signs.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General: Install signs using installation methods indicated and according to manufacturer's written instructions.
   1. Install signs level, plumb, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
   2. Install signs so they do not protrude or obstruct according to the accessibility standard.
   3. Before installation, verify that sign components are clean and free of materials or debris that would impair installation.

3.3 INSTALLING POSTS

A. Vertical Tolerance: Set posts plumb within a tolerance of 1/16 inch in 3 feet.

B. Sleeve Installation:
   1. Excavation: Excavate posthole to dimensions indicated. Reconstruct subgrade that is not firm, undisturbed, or compacted soil, or that is damaged by freezing temperatures, frost, rain, accumulated water, or construction activities by excavating an additional 12 inches, backfilling with satisfactory soil or well-graded aggregate, and compacting to original subgrade elevation.
   2. Setting in Cast-in-Place Concrete: Set post in position, support to prevent movement, and place concrete for concrete foundation as indicated on Drawings.

C. Post Installation:
   1. Set post in position over the projecting insert and support post to prevent movement, drill posts and inserts for through bolts, and install and tighten through bolts.

3.4 ADJUSTING AND CLEANING

A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.

B. Remove temporary protective coverings and strippable films as signs are installed.

C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION 10 1426

SECTION 31 1000 - SITE CLEARING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Protecting existing vegetation to remain.
2. Removing existing vegetation.
3. Clearing and grubbing.
4. Stripping and stockpiling topsoil.
5. Removing above- and below-grade site improvements.
6. Disconnecting, capping or sealing, and removing site utilities or abandoning site utilities in place.

B. Related Requirements:
1. Section 32 2513 "Erosion Control" for temporary erosion- and sedimentation-control measures.
2. Section 31 2000 “Earth Moving” for additional soil and grading information.
3. Section 32 9115 “Soil Preparation” for soil requirements.

1.2 DEFINITIONS

A. Subsoil: Soil beneath the level of subgrade; soil beneath the topsoil layers of a naturally occurring soil profile, typified by less than 1 percent organic matter and few soil organisms.

B. Surface Soil: Soil that is present at the top layer of the existing soil profile. In undisturbed areas, surface soil is typically called "topsoil," but in disturbed areas such as urban environments, the surface soil can be subsoil.

C. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing in-place surface soil; the zone where plant roots grow.

D. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing in-place surface soil; the zone where plant roots grow. Its appearance is generally friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects larger than 2 inches in diameter; and free of weeds, roots, toxic materials, or other non-soil materials.

E. Plant-Protection Zone: Area surrounding individual trees, groups of trees, shrubs, or other vegetation to be protected during construction and indicated on Drawings.

F. Tree-Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction and indicated according to requirements in Section 01 5639 "Temporary Tree and Plant Protection.".

G. Vegetation: Trees, shrubs, groundcovers, grass, and other plants.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.4 MATERIAL OWNERSHIP

A. Except for materials indicated to be stockpiled or otherwise remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.5 INFORMATIONAL SUBMITTALS

A. Existing Conditions: Documentation of existing trees and plantings, adjoining construction, and site improvements that establishes preconstruction conditions that might be misconstrued as damage caused by site clearing.
   1. Use sufficiently detailed photographs or video recordings.
   2. Include plans and notations to indicate specific wounds and damage conditions of each tree or other plant designated to remain.

B. Topsoil stripping and stockpiling program.

C. Record Drawings: Identifying and accurately showing locations of capped utilities and other subsurface structural, electrical, and mechanical conditions.

1.6 FIELD CONDITIONS

A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
   1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
   2. Provide alternate routes around closed or obstructed trafficways if required by Owner or authorities having jurisdiction.

B. Improvements on Adjoining Property: Authority for performing site clearing indicated on property adjoining Owner's property will be obtained by Owner before award of Contract.
   1. Do not proceed with work on adjoining property until directed by Architect.

C. Salvageable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises where indicated.

D. Utility Locator Service: Notify utility locator service for area where Project is located before site clearing.

E. Do not commence site clearing operations until temporary erosion- and sedimentation-control and plant-protection measures are in place.

F. Soil Stripping, Handling, and Stockpiling: Perform only when the soil is dry or slightly moist.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Section 31 2000 "Earth Moving."
   1. Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.

B. Antirust Coating: Fast-curing, lead- and chromate-free, self-curing, universal modified-alkyd primer complying with MPI #23 (surface-tolerant, anticorrosive metal primer).

PART 3 - EXECUTION

3.1 PREPARATION

A. Protect and maintain benchmarks and survey control points from disturbance during construction.

B. Verify that trees, shrubs, and other vegetation to remain or to be relocated have been flagged and that protection zones have been identified and enclosed according to requirements in Section 01 5639 "Temporary Tree and Plant Protection."

C. Protect existing site improvements to remain from damage during construction.
   1. Restore damaged improvements to their original condition, as acceptable to Owner.

3.2 TEMPORARY EROSION AND SEDIMENTATION CONTROL

A. Provide temporary erosion- and sedimentation-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and requirements of authorities having jurisdiction.

B. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.

C. Inspect, maintain, and repair erosion- and sedimentation-control measures during construction until permanent vegetation has been established.

D. Remove erosion and sedimentation controls, and restore and stabilize areas disturbed during removal.

3.3 TREE AND PLANT PROTECTION

A. Protect trees and plants remaining on-site according to requirements in Section 01 5639 "Temporary Tree and Plant Protection."

B. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations according to requirements in Section 01 5639 "Temporary Tree and Plant Protection."

3.4 EXISTING UTILITIES

A. Locate, identify, disconnect, and seal or cap utilities indicated to be removed or abandoned in place.
   1. Arrange with utility companies to shut off indicated utilities.

B. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others, unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
   1. Notify2 Owner and Architect not less than seven days in advance of proposed utility interruptions.
   2. Do not proceed with utility interruptions without Owner and Architect's written permission.

C. Excavate for and remove underground utilities indicated to be removed.

3.5 CLEARING AND GRUBBING

A. Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.
   1. Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated.
   2. Grind down stumps and remove roots larger than 2 inches in diameter, obstructions, and debris to a depth of 24 inches below exposed subgrade.
   3. Use only hand methods or air spade for grubbing within protection zones.
   4. Chip removed tree branches and dispose of off-site.

B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
   1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches, and compact each layer to a density equal to adjacent original ground.

3.6 TOPSOIL STRIPPING

A. Remove sod and grass before stripping topsoil.

B. Strip topsoil to depth indicated on drawings in a manner to prevent intermingling with underlying subsoil or other waste materials.
   1. Remove subsoil and non-soil materials from topsoil, including clay lumps, gravel, and other objects larger than 2 inches in diameter; trash, debris, weeds, roots, and other waste materials.

C. Stockpile topsoil away from edge of excavations without intermixing with subsoil or other materials. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.
   1. Limit height of topsoil stockpiles to 72 inches.

2. Do not stockpile topsoil within protection zones.
3. Dispose of surplus topsoil. Surplus topsoil is that which exceeds quantity indicated to be stockpiled or reused.
4. Stockpile surplus topsoil to allow for respreading deeper topsoil.

3.7 SITE IMPROVEMENTS

A. Remove existing above- and below-grade improvements as indicated and necessary to facilitate new construction.

B. Remove slabs, paving, curbs, gutters, and aggregate base as indicated.
1. Unless existing full-depth joints coincide with line of demolition, neatly saw-cut along line of existing pavement to remain before removing adjacent existing pavement. Saw-cut faces vertically.
2. Paint cut ends of steel reinforcement in concrete to remain with two coats of antirust coating, following coating manufacturer's written instructions. Keep paint off surfaces that will remain exposed.

3.8 DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.

B. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials, and transport them to recycling facilities. Do not interfere with other Project work.

END OF SECTION 31 1000

SECTION 31 2000 - EARTH MOVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Excavating and filling for rough grading the Site.
2. Preparing subgrades for walks, pavements, turf and grasses, and plants.
3. Subbase course for concrete walks and pavements.
4. Subbase course and base course for asphalt paving.
5. Excavating and backfilling trenches for utilities and pits for buried utility structures.

B. Related Requirements:
1. Section 31 1000 "Site Clearing" for site stripping, grubbing, stripping topsoil, and removal of above- and below-grade improvements and utilities.
2. Section 32 9200 "Turf and Grasses" for finish grading in turf and grass areas, including preparing and placing planting soil for turf areas.
3. Section 32 9300 "Plants" for finish grading in planting areas and tree and shrub pit excavation and planting.
4. 2024 INDOT Standard Specifications (or current edition) for aggregates.

1.2 DEFINITIONS

A. Backfill: Soil material or controlled low-strength material used to fill an excavation.
1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
2. Final Backfill: Backfill placed over initial backfill to fill a trench.

B. Base Course: Aggregate layer placed between the subbase course and hot-mix asphalt paving.

C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.

D. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.

E. Drainage Course: Aggregate layer supporting the slab-on-grade that also minimizes upward capillary flow of pore water.

F. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Architect. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
2. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Architect. Unauthorized

excavation, as well as remedial work directed by Architect, will be without additional compensation.

G. Fill: Soil materials used to raise existing grades.

H. INDOT: Indiana Department of Transportation

I. Rock:
1. Rock material in beds, ledges, unstratified masses, conglomerate deposits, and boulders of rock material 1 cu. yd. or more in volume that exceed a standard penetration resistance of 100 blows/2 inches when tested by a geotechnical testing agency, according to ASTM D1586.

J. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other fabricated stationary features constructed above or below the ground surface.

K. Subbase Course: Aggregate layer placed between the subgrade and base course for hot-mix asphalt pavement, or aggregate layer placed between the subgrade and a cement concrete pavement or a cement concrete or hot-mix asphalt walk.

L. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, drainage fill, drainage course, or topsoil materials.

M. Utilities: On-site underground pipes, conduits, ducts, and cables as well as underground services within buildings.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct preexcavation conference at Project site.
1. Review methods and procedures related to earthmoving, including, but not limited to, the following:
a. Personnel and equipment needed to make progress and avoid delays.
b. Coordination of Work with utility locator service.
c. Coordination of Work and equipment movement with the locations of tree- and plant-protection zones.
d. Extent of trenching by hand or with air spade.
e. Field quality control.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of the following manufactured products required:
1. Geotextiles.
2. Controlled low-strength material, including design mixture.
3. Geogrid
4. Warning tapes.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified testing agency.

B. Material Test Reports: For each borrow soil material proposed for fill and backfill as follows:
   1. Classification according to ASTM D2487.
   2. Laboratory compaction curve according to ASTM D698 and ASTM D1557.

C. Preexcavation Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by earth-moving operations. Submit before earth moving begins.

1.6 QUALITY ASSURANCE

A. Geotechnical Testing Agency Qualifications: Qualified according to ASTM E329 and ASTM D3740 for testing indicated.

B. Manufacturer Qualifications: An aggregate supplier registered with and approved by INDOT to provide aggregates compliant with INDOT Aggregate Specifications.

1.7 FIELD CONDITIONS

A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth-moving operations.
   1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
   2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.

B. Improvements on Adjoining Property: Authority for performing earth moving indicated on property adjoining Owner's property will be obtained by Owner before award of Contract.
   1. Do not proceed with work on adjoining property until directed by Architect.

C. Utility Locator Service: Notify utility locator service for area where Project is located before beginning earth-moving operations.

D. Do not commence earth-moving operations until temporary site fencing and erosion- and sedimentation-control measures are in place.

E. Do not commence earth-moving operations until plant-protection measures are in place.

F. The following practices are prohibited within protection zones:
   1. Storage of construction materials, debris, or excavated material.
   2. Parking vehicles or equipment.
   3. Foot traffic.
   4. Erection of sheds or structures.
   5. Impoundment of water.
   6. Excavation or other digging unless otherwise indicated.
   7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.

G. Do not direct vehicle or equipment exhaust towards protection zones.

H. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.

B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D2487, or a combination of these groups; free of rock or gravel larger than 1 inch in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.

C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D2487, or a combination of these groups.
   1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.

D. Subbase Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D2940/D2940M; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

E. Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D2940/D2940M; with at least 95 percent passing a 1-1/2-inch sieve and not more than 8 percent passing a No. 200 sieve.

F. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D2940/D2940M; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

G. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D2940/D2940M; except with 100 percent passing a 1-inch sieve and not more than 8 percent passing a No. 200 sieve.

H. Drainage Course: Narrowly graded mixture of washed crushed stone, or crushed or uncrushed gravel; ASTM D448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and zero to 5 percent passing a No. 8 sieve.

I. Filter Material: Narrowly graded mixture of natural or crushed gravel, or crushed stone and natural sand; ASTM D448; coarse-aggregate grading Size 67; with 100 percent passing a 1-inch sieve and zero to 5 percent passing a No. 4 sieve.

J. Sand: ASTM C33/C33M; fine aggregate.

K. Impervious Fill: Clayey gravel and sand mixture capable of compacting to a dense state.

2.2 GEOTEXTILES

A. Subsurface Drainage Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:
   1. Survivability:
      a. As follows:
         1) Grab Tensile Strength: 157 lbf; ASTM D4632.
         2) Sewn Seam Strength: 142 lbf; ASTM D4632.
         3) Tear Strength: 56 lbf; ASTM D4533.
         4) Puncture Strength: 56 lbf; ASTM D4833.
      b. Apparent Opening Size: No. 60 sieve, maximum; ASTM D4751.
      c. Permittivity: 0.2 per second, minimum; ASTM D4491.
      d. UV Stability: 50 percent after 500 hours' exposure; ASTM D4355.

B. Separation Geotextile: Woven geotextile fabric, manufactured for separation applications, made from polyolefins or polyesters; with elongation less than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:
   1. Survivability:
      a. As follows:
         1) Grab Tensile Strength: 247 lbf; ASTM D4632.
         2) Sewn Seam Strength: 222 lbf; ASTM D4632.
         3) Tear Strength: 90 lbf; ASTM D4533.
         4) Puncture Strength: 90 lbf; ASTM D4833.
      b. Apparent Opening Size: No. 60 sieve, maximum; ASTM D4751.
      c. Permittivity: 0.02 per second, minimum; ASTM D4491.
      d. UV Stability: 50 percent after 500 hours' exposure; ASTM D4355.

2.3 GEOGRID

A. Type II polypropylene geogrid especially designed for soil stabilization and reinforcement applications, manufactured from a process of extrusion, and punched and drawn to biaxial orientation to enhance tensile properties.
   1. Ultimate Tensile Strength: 1300 lb/ft minimum.
   2. Junction Efficiency: 93%
   3. Flexural Stiffness: 750,000 mg-cm
   4. UV Degradation Resistance: 100%

2.4 ACCESSORIES

A. Detectable Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, a minimum of 6 inches wide and 4 mils thick, continuously inscribed with a description of the utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches deep; colored as follows:
   1. Red: Electric.
   2. Yellow: Gas, oil, steam, and dangerous materials.
   3. Orange: Telephone and other communications.

4. Blue: Water systems.
5. Green: Sewer systems.

PART 3 - EXECUTION

3.1 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth-moving operations.

B. Protect and maintain erosion and sedimentation controls during earth-moving operations.

C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

3.2 DEWATERING

A. Provide dewatering system of sufficient scope, size, and capacity to control hydrostatic pressures and to lower, control, remove, and dispose of ground water and permit excavation and construction to proceed on dry, stable subgrades.

B. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.

C. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.
   1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.

D. Dispose of water removed by dewatering in a manner that avoids endangering public health, property, and portions of work under construction or completed. Dispose of water and sediment in a manner that avoids inconvenience to others.

3.3 EXPLOSIVES

A. Explosives:
   1. Do not use explosives.

3.4 EXCAVATION, GENERAL

A. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.
   1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.

2. Remove rock to lines and grades indicated to permit installation of permanent construction without exceeding the following dimensions:
   a. 24 inches outside of concrete forms other than at footings.
   b. 12 inches outside of concrete forms at footings.
   c. 6 inches outside of minimum required dimensions of concrete cast against grade.
   d. Outside dimensions of concrete walls indicated to be cast against rock without forms or exterior waterproofing treatments.
   e. 6 inches beneath bottom of concrete slabs-on-grade.
   f. 6 inches beneath pipe in trenches and the greater of 24 inches wider than pipe or 42 inches wide.

3.5 EXCAVATION FOR WALKS AND PAVEMENTS

A. Excavate surfaces under walks and pavements to indicated lines, cross sections, elevations, and subgrades.

3.6 EXCAVATION FOR UTILITY TRENCHES

A. Excavate trenches to indicated gradients, lines, depths, and elevations.
   1. Beyond building perimeter, excavate trenches to allow installation of top of pipe below frost line.

B. Excavate trenches to uniform widths to provide the following clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches higher than top of pipe or conduit unless otherwise indicated.
   1. Clearance: 12 inches each side of pipe or conduit or as indicated.

C. Trench Bottoms:
   1. Excavate trenches 4 inches deeper than bottom of pipe and conduit elevations to allow for bedding course. Hand-excavate deeper for bells of pipe.
      a. Excavate trenches 6 inches deeper than elevation required in rock or other unyielding bearing material to allow for bedding course.

D. Trenches in Tree- and Plant-Protection Zones:
   1. Hand-excavate to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
   2. Do not cut main lateral roots or taproots; cut only smaller roots that interfere with installation of utilities.
   3. Cut and protect roots according to requirements in Section 01 5639 "Temporary Tree and Plant Protection."

3.7 SUBGRADE INSPECTION

A. Notify Architect when excavations have reached required subgrade.

B. If Architect determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.

C. Proof-roll subgrade at pavement locations with a pneumatic-tired and loaded 10-wheel, tandem-axle dump truck weighing not less than 15 tons to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
   1. Completely proof-roll subgrade in one direction. Limit vehicle speed to 3 mph.
   2. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by Architect, and replace with compacted backfill or fill as directed.

D. Authorized additional excavation and replacement material will be paid for according to Contract provisions for unit prices.

E. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Architect, without additional compensation.

3.8 UNAUTHORIZED EXCAVATION

A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi, may be used when approved by Architect.
   1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Architect.

3.9 STORAGE OF SOIL MATERIALS

A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
   1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.10 BACKFILL

A. Place and compact backfill in excavations promptly, but not before completing the following:
   1. Construction below finish grade including, where applicable, subdrainage, dampproofing, waterproofing, and perimeter insulation.
   2. Surveying locations of underground utilities for Record Documents.
   3. Testing and inspecting underground utilities.
   4. Removing concrete formwork.
   5. Removing trash and debris.
   6. Removing temporary shoring, bracing, and sheeting.
   7. Installing permanent or temporary horizontal bracing on horizontally supported walls.

B. Place backfill on subgrades free of mud, frost, snow, or ice.

3.11 UTILITY TRENCH BACKFILL

A. Place backfill on subgrades free of mud, frost, snow, or ice.

B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.

C. Trenches under Footings: Backfill trenches excavated under footings and within 18 inches of bottom of footings with satisfactory soil; fill with concrete to elevation of bottom of footings. Concrete is specified in Section 03 3000 "Cast-in-Place Concrete."

D. Trenches under Roadways: Provide 4-inch- thick, concrete-base slab support for piping or conduit less than 30 inches below surface of roadways. After installing and testing, completely encase piping or conduit in a minimum of 4 inches of concrete before backfilling or placing roadway subbase course. Concrete is specified in Section 03 3000 "Cast-in-Place Concrete."

E. Backfill voids with satisfactory soil while removing shoring and bracing.

F. Initial Backfill:
   1. Soil Backfill: Place and compact initial backfill of satisfactory soil, free of particles larger than 1 inch in any dimension, to a height of 12 inches over the pipe or conduit.
      a. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with utilities testing.

G. Final Backfill:
   1. Soil Backfill: Place and compact final backfill of satisfactory soil to final subgrade elevation.

H. Warning Tape: Install warning tape directly above utilities, 12 inches below finished grade, except 6 inches below subgrade under pavements and slabs.

3.12 SOIL FILL

A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.

B. Place and compact fill material in layers to required elevations as follows:
   1. Under grass and planted areas, use satisfactory soil material.
   2. Under walks and pavements, use satisfactory soil material.
   3. Under steps and ramps, use engineered fill.
   4. Under vehicular pavements, use engineered fill.
   5. Under footings and foundations, use engineered fill.

C. Place soil fill on subgrades free of mud, frost, snow, or ice.

3.13 SOIL MOISTURE CONTROL

A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.
   1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
   2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

3.14 COMPACTION OF SOIL BACKFILLS AND FILLS

A. Place backfill and fill soil materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment and not more than 4 inches in loose depth for material compacted by hand-operated tampers.

B. Place backfill and fill soil materials evenly on all sides of structures to required elevations and uniformly along the full length of each structure.

C. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D698:
   1. Under structures, building slabs, steps, and pavements, scarify and recompact top 12 inches of existing subgrade and each layer of backfill or fill soil material at 95 percent.
   2. Under walkways, scarify and recompact top 6 inches below subgrade and compact each layer of backfill or fill soil material at 95 percent.
   3. Under turf or unpaved areas, scarify and recompact top 6 inches below subgrade and compact each layer of backfill or fill soil material at 85 percent.
   4. For utility trenches, compact each layer of initial and final backfill soil material at 90 percent.

3.15 GRADING

A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
   1. Provide a smooth transition between adjacent existing grades and new grades.
   2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.

B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to elevations required to achieve indicated finish elevations, within the following subgrade tolerances:
   1. Turf or Unpaved Areas: Plus or minus 1 inch.
   2. Walks: Plus or minus 1/2 inch.
   3. Pavements: Plus or minus 1/2 inch.

3.16 SUBSURFACE DRAINAGE

A. Subsurface Drain: Place subsurface drainage geotextile around perimeter of subdrainage trench. Place a 6-inch course of filter material on subsurface drainage geotextile to support subdrainage pipe. Encase subdrainage pipe in a minimum of 12 inches of filter material, placed in compacted layers 8 inches thick, and wrap in subsurface drainage geotextile, overlapping sides and ends at least 6 inches.
   1. Compact each filter material layer to 90 percent of maximum dry unit weight according to ASTM D698.

B. Drainage Backfill: Place and compact filter material over subsurface drain, in width indicated, to within 12 inches of final subgrade, in compacted layers 8 inches thick. Overlay drainage backfill with one layer of subsurface drainage geotextile, overlapping sides and ends at least 6 inches.
   1. Compact each filter material layer to 85 percent of maximum dry unit weight according to ASTM D698.
   2. Place and compact impervious fill over drainage backfill in 6-inch-thick compacted layers to final subgrade.

3.17 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

A. Place subbase course and base course on subgrades free of mud, frost, snow, or ice.

B. On prepared subgrade, place subbase course and base course under pavements and walks as follows:
   1. Install separation geotextile on prepared subgrade according to manufacturer's written instructions, overlapping sides and ends.
   2. Place base course material over subbase course under hot-mix asphalt pavement.
   3. Shape subbase course and base course to required crown elevations and cross-slope grades.
   4. Place subbase course and base course 6 inches or less in compacted thickness in a single layer.
   5. Place subbase course and base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
   6. Compact subbase course and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D698.

3.18 FIELD QUALITY CONTROL

A. Testing Agency: Contractor will engage a qualified geotechnical engineering testing agency to perform tests and inspections.

B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.

C. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of

other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Architect.

D. Testing agency will test compaction of soils in place according to ASTM D1556, ASTM D2167, ASTM D2937, and ASTM D6938, as applicable. Tests will be performed at the following locations and frequencies:
   1. Paved and Building Slab Areas: At subgrade and at each compacted fill and backfill layer, at least one test for every 2000 sq. ft. or less of paved area or building slab but in no case fewer than three tests.
   2. Foundation Wall Backfill: At each compacted backfill layer, at least one test for every 100 feet or less of wall length but no fewer than two tests.
   3. Trench Backfill: At each compacted initial and final backfill layer, at least one test for every 150 feet or less of trench length but no fewer than two tests.

E. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

3.19 PROTECTION

A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.

B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
   1. Scarify or remove and replace soil material to depth as directed by Architect; reshape and recompact.

C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
   1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.20 DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

B. Transport surplus satisfactory soil to designated storage areas on Owner's property. Stockpile or spread soil as directed by Architect.
   1. Remove waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION 31 2000

SECTION 32 1216 - ASPHALT PAVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Hot-mix asphalt paving.
   2. Hot-mix asphalt patching.

B. Related Requirements:
   1. Section 02 4119 "Selective Demolition" for demolition and removal of existing asphalt pavement.
   2. Section 31 2000 "Earth Moving" for subgrade preparation, fill material, separation geotextiles, unbound-aggregate subbase and base courses, and aggregate pavement shoulders.
   3. Section 32 1313 "Concrete Paving" for concrete pavement and for separate concrete curbs, gutters, and driveway aprons.
   4. Section 32 1373 "Concrete Paving Joint Sealants" for joint sealants and fillers at pavement terminations.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
   1. Review methods and procedures related to hot-mix asphalt paving including, but not limited to, the following:
      a. Review proposed sources of paving materials, including capabilities and location of plant that will manufacture hot-mix asphalt.
      b. Review requirements for protecting paving work, including restriction of traffic during installation period and for remainder of construction period.

1.3 ACTION SUBMITTALS

A. Product Data: Include technical data and tested physical and performance properties.
   1. Joint sealant.

B. Hot-Mix Asphalt Designs:
   1. Certification, by authorities having jurisdiction, of approval of each hot-mix asphalt design proposed for the Work.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For paving-mix manufacturer.

B. Material Certificates: For each paving material

C. Material Test Reports: For each paving material, by a qualified testing agency.

D. Field quality-control reports.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: A paving-mix manufacturer registered with and approved by authorities having jurisdiction or the DOT of state in which Project is located.

B. Testing Agency Qualifications: Qualified in accordance with ASTM D3666 for testing indicated.

C. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of INDOT for asphalt paving work.
   1. Measurement and payment provisions and safety program submittals included in standard specifications do not apply to this Section.

1.6 FIELD CONDITIONS

A. Environmental Limitations: Do not apply asphalt materials if subgrade is wet or excessively damp, if rain is imminent or expected before time required for adequate cure, or if the following conditions are not met:
   1. Tack Coat: Minimum surface temperature of 60 deg F.
   2. Asphalt Base Course: Minimum surface temperature of 40 deg F and rising at time of placement.
   3. Asphalt Surface Course: Minimum surface temperature of 60 deg F at time of placement.

PART 2 - PRODUCTS

2.1 AGGREGATES

A. General: Use materials and gradations that have performed satisfactorily in previous installations.

B. Coarse Aggregate: ASTM D692/D692M, sound; angular crushed stone, crushed gravel, or cured.

C. Fine Aggregate: ASTM D1073 or AASHTO M 29, sharp-edged natural sand or sand prepared from stone, gravel, or combinations thereof.
   1. For hot-mix asphalt, limit natural sand to a maximum of 20 percent by weight of the total aggregate mass.

D. Mineral Filler: ASTM D242/D242M or AASHTO M 17, rock or slag dust, hydraulic cement, or other inert material.

2.2 ASPHALT MATERIALS

A. Asphalt Binder: AASHTO M 320 binder designation PG 64-22.

B. Asphalt Cement: ASTM D3381/D3381M for viscosity-graded material.

C. Tack Coat: ASTM D977 emulsified asphalt, or ASTM D2397/D2397M cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.

D. Water: Potable.

2.3 AUXILIARY MATERIALS

A. Sand: ASTM D1073, Grade No. 2 or No. 3.

B. Paving Geotextile: AASHTO M 288 paving fabric; nonwoven polypropylene; resistant to chemical attack, rot, and mildew; and specifically designed for paving applications.

2.4 MIXES

A. Hot-Mix Asphalt: Dense-graded, hot-laid, hot-mix asphalt plant mixes approved by authorities having jurisdiction and complying with the following requirements:
1. Provide mixes with a history of satisfactory performance in geographical area where Project is located.
2. Comply with INDOT specification 400 and as follows:
a. Base Course: HMA Base, Type B, 25MM.
b. Intermediate Curse: HMA Intermediate, Type B, 19MM.
c. Surface Course: HMA Surface, Type B, 9.5MM.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that subgrade is dry and in suitable condition to begin paving.

B. Proceed with paving only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Protection: Provide protective materials, procedures, and worker training to prevent asphalt materials from spilling, coating, or building up on curbs, driveway aprons, manholes, and other surfaces adjacent to the Work.

B. Proof-roll subgrade below pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
1. Completely proof-roll subgrade in one direction, repeating proof-rolling in direction perpendicular to first direction. Limit vehicle speed to 3 mph.
2. Proof-roll with a loaded 10-wheel, tandem-axle dump truck weighing not less than 15 tons.
3. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by Architect, and replace with compacted backfill or fill as directed.

3.3 PATCHING

A. Asphalt Pavement: Saw cut perimeter of patch and excavate existing pavement section to sound base. Excavate rectangular or trapezoidal patches, extending 12 inches into perimeter of adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically. Remove excavated material. Recompact existing unbound-aggregate base course to form new subgrade.

B. Tack Coat: Before placing patch material, apply tack coat uniformly to vertical asphalt surfaces abutting the patch. Apply at a rate of 0.05 to 0.15 gal./sq. yd..
   1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
   2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

C. Placing Two-Course Patch Material: Partially fill excavated pavements with hot-mix asphalt base course mix and, while still hot, compact. Cover asphalt base course with compacted layer of hot-mix asphalt surface course, finished flush with adjacent surfaces.

3.4 REPAIRS

A. Leveling Course: Install and compact leveling course consisting of hot-mix asphalt surface course to level sags and fill depressions deeper than 1 inch in existing pavements.
   1. Install leveling wedges in compacted lifts not exceeding 3 inches thick.

B. Crack and Joint Filling: Remove existing joint filler material from cracks or joints to a depth of 1/4 inch.
   1. Clean cracks and joints in existing hot-mix asphalt pavement.
   2. Use emulsified-asphalt slurry to seal cracks and joints less than 1/4 inch wide. Fill flush with surface of existing pavement and remove excess.
   3. Use hot-applied joint sealant to seal cracks and joints more than 1/4 inch wide. Fill flush with surface of existing pavement and remove excess.

3.5 SURFACE PREPARATION

A. Ensure that prepared subgrade has been proof-rolled and is ready to receive paving. Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces.

B. Tack Coat: Apply uniformly to surfaces of existing pavement at a rate of 0.05 to 0.10 gal./sq. yd..
   1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
   2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

3.6 HOT-MIX ASPHALT PLACEMENT

A. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand in areas inaccessible to equipment in a manner that prevents

segregation of mix. Place each course to required grade, cross section, and thickness when compacted.

1. Place hot-mix asphalt base course and intermediate course in number of lifts and thicknesses indicated.
2. Place hot-mix asphalt surface course in single lift.
3. Spread mix at a minimum temperature of 250 deg F.
4. Begin applying mix along centerline of crown for crowned sections and on high side of one-way slopes unless otherwise indicated.
5. Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.

B. Place paving in consecutive strips not less than 10 feet wide unless infill edge strips of a lesser width are required.

1. After first strip has been placed and rolled, place succeeding strips and extend rolling to overlap previous strips. Overlap mix placement about 1 to 1-1/2 inches from strip to strip to ensure proper compaction of mix along longitudinal joints.
2. Complete a section of asphalt base course and intermediate course before placing asphalt surface course.

C. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

3.7 JOINTS

A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.

1. Clean contact surfaces and apply tack coat to joints.
2. Offset longitudinal joints, in successive courses, a minimum of 6 inches.
3. Offset transverse joints, in successive courses, a minimum of 24 inches.
4. Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time. Construct these joints using either "bulkhead" or "papered" method in accordance with AI MS-22, for both "Ending a Lane" and "Resumption of Paving Operations."
5. Compact joints as soon as hot-mix asphalt will bear roller weight without excessive displacement.
6. Compact asphalt at joints to a density within 2 percent of specified course density.

3.8 COMPACTION

A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot hand tampers or with vibratory-plate compactors in areas inaccessible to rollers.

1. Complete compaction before mix temperature cools to 185 deg F.

B. Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.

C. Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:
   1. Average Density, Rice Test Method: 92 percent of reference maximum theoretical density in accordance with ASTM D2041/D2041M, but not less than 90 percent or greater than 96 percent.

D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.

E. Repairs: Remove paved areas that are defective or contaminated with foreign materials and replace with fresh, hot-mix asphalt. Compact by rolling to specified density and surface smoothness.

F. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.

G. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

3.9 INSTALLATION TOLERANCES

A. Pavement Thickness: Compact each course to produce thickness indicated within the following tolerances:
   1. Base Course and Intermediate Course: Plus or minus 1/2 inch.
   2. Surface Course: Plus 1/4 inch, no minus.

B. Pavement Surface Smoothness: Compact each course to produce surface smoothness within the following tolerances as determined by using a 10-foot straightedge applied transversely or longitudinally to paved areas:
   1. Base Course and Intermediate Course: 1/4 inch.
   2. Surface Course: 1/8 inch.
   3. Crowned Surfaces: Test with crowned template centered and at right angle to crown. Maximum allowable variance from template is 1/4 inch.

3.10 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.

B. Thickness: In-place compacted thickness of hot-mix asphalt courses will be determined in accordance with ASTM D3549/D3549M.

C. Surface Smoothness: Finished surface of each hot-mix asphalt course will be tested for compliance with smoothness tolerances.

D. In-Place Density: Testing agency will take samples of uncompacted paving mixtures and compacted pavement in accordance with ASTM D979/D979M or AASHTO T 168.
   1. Reference maximum theoretical density will be determined by averaging results from four samples of hot-mix asphalt-paving mixture delivered daily to site,

prepared in accordance with ASTM D2041/D2041M, and compacted in accordance with job-mix specifications.

2. In-place density of compacted pavement will be determined by testing core samples in accordance with ASTM D1188 or ASTM D2726/D2726M.
   a. One core sample will be taken for every 1000 sq. yd. or less of installed pavement, with no fewer than three cores taken.
   b. Field density of in-place compacted pavement may also be determined by nuclear method in accordance with ASTM D2950/D2950M and coordinated with ASTM D1188 or ASTM D2726/D2726M.

E. Replace and compact hot-mix asphalt where core tests were taken.

F. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

3.11 WASTE HANDLING

A. General: Handle asphalt-paving waste in accordance with approved waste management plan required in Section 01 7419 "Construction Waste Management and Disposal."

END OF SECTION 32 1216

SECTION 32 1313 - CONCRETE PAVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes concrete paving including the following:
   1. Roadways.
   2. Curbs and gutters.
   3. Walks.

B. Related Requirements:
   1. Section 32 1373 "Concrete Paving Joint Sealants" for joint sealants in expansion and contraction joints within concrete paving and in joints between concrete paving and asphalt paving or adjacent construction.
   2. Section 32 1723 "Pavement Markings."
   3. Section 32 1726 "Tactile Warning Surfacing" for detectable warning pavers.

1.2 DEFINITIONS

A. Cementitious Materials: Portland cement alone or in combination with one or more of blended hydraulic cement, fly ash, slag cement, and other pozzolans.

B. W/C Ratio: The ratio by weight of water to cementitious materials.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
   1. Review methods and procedures related to concrete paving, including but not limited to, the following:
      a. Concrete mixture design.
      b. Quality control of concrete materials and concrete paving construction practices.
   2. Require representatives of each entity directly concerned with concrete paving to attend, including the following:
      a. Contractor's superintendent.
      b. Independent testing agency responsible for concrete design mixtures.
      c. Ready-mix concrete manufacturer.
      d. Concrete paving Subcontractor.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Design Mixtures: For each concrete paving mixture. Include alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified ready-mix concrete manufacturer and testing agency.

B. Material Certificates: For the following, from manufacturer:
   1. Cementitious materials.
   2. Steel reinforcement and reinforcement accessories.
   3. Admixtures.
   4. Curing compounds.
   5. Applied finish materials.
   6. Bonding agent or epoxy adhesive.
   7. Joint fillers.

C. Material Test Reports: For each of the following:
   1. Aggregates: Include service-record data indicating absence of deleterious expansion of concrete due to alkali-aggregate reactivity.

D. Field quality-control reports.

1.6 QUALITY ASSURANCE

A. Ready-Mix-Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C94/C94M requirements for production facilities and equipment.
   1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities" (Quality Control Manual - Section 3, "Plant Certification Checklist").

B. Testing Agency Qualifications: Qualified according to ASTM C1077 and ASTM E329 for testing indicated.
   1. Personnel conducting field tests must be qualified as ACI Concrete Field Testing Technician, Grade 1, according to ACI CP-1 or an equivalent certification program.

C. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
   1. Build mockups of full-thickness sections of concrete paving to demonstrate typical joints; surface finish, texture, and color; curing; and standard of workmanship.
   2. Build mockups of concrete paving in the location and of the size indicated or, if not indicated, build mockups where directed by Architect and not less than 14 feet by 12 feet.
   3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
   4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 PRECONSTRUCTION TESTING

A. Preconstruction Testing Service: Engage a qualified independent testing agency to perform preconstruction testing on concrete paving mixtures.

1.8 FIELD CONDITIONS

A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.

B. Cold-Weather Concrete Placement: Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing, or low temperatures. Comply with ACI 306.1 and the following:
   1. When air temperature has fallen to or is expected to fall below 40 deg F, uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 deg F and not more than 80 deg F at point of placement.
   2. Do not use frozen materials or materials containing ice or snow.
   3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in design mixtures.

C. Hot-Weather Concrete Placement: Comply with ACI 301 and as follows when hot-weather conditions exist:
   1. Cool ingredients before mixing to maintain concrete temperature below 90 deg F at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated in total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
   2. Fog-spray forms and subgrade just before placing concrete. Keep subgrade moisture uniform without standing water, soft spots, or dry areas.

PART 2 - PRODUCTS

2.1 CONCRETE, GENERAL

A. ACI Publications: Comply with ACI 301 unless otherwise indicated.

2.2 FORMS

A. Form Materials: Plywood, metal, metal-framed plywood, or other approved panel-type materials to provide full-depth, continuous, straight, and smooth exposed surfaces.
   1. Use flexible or uniformly curved forms for curves with a radius. Do not use notched and bent forms.

B. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and that will not impair subsequent treatments of concrete surfaces.

2.3 STEEL REINFORCEMENT

A. Plain-Steel Welded-Wire Reinforcement: ASTM A1064/A1064M, fabricated from as-drawn steel wire into flat sheets.

B. Reinforcing Bars: ASTM A615/A615M, Grade 60; deformed.

C. Plain-Steel Wire: ASTM A1064/A1064M, as drawn.

D. Epoxy-Coated, Joint Dowel Bars: ASTM A775/A775M; with ASTM A615/A615M, Grade 60 plain-steel bars.

E. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars, welded-wire reinforcement, and dowels in place. Manufacture bar supports according to CRSI's "Manual of Standard Practice" from steel wire, plastic, or precast concrete of greater compressive strength than concrete specified.

F. Epoxy Repair Coating: Liquid, two-part, epoxy repair coating, compatible with epoxy coating on reinforcement.

2.4 CONCRETE MATERIALS

A. Cementitious Materials: Use the following cementitious materials, of same type, brand, and source throughout Project:
   1. Portland Cement: ASTM C150/C150M, gray portland cement Type I or Type II.
   2. Fly Ash: ASTM C618, Class C of Class F.
   3. Slag Cement: ASTM C989/C989M, Grade 100 or 120.
   4. Blended Hydraulic Cement: ASTM C595/C595M.

B. Normal-Weight Aggregates: ASTM C33/C33M, Class 4S, uniformly graded. Provide aggregates from a single source with documented service-record data of at least 10 years' satisfactory service in similar paving applications and service conditions using similar aggregates and cementitious materials.
   1. Maximum Coarse-Aggregate Size: 1 inch nominal.
   2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.

C. Air-Entraining Admixture: ASTM C260/C260M.

D. Chemical Admixtures: Admixtures certified by manufacturer to be compatible with other admixtures and to contain not more than 0.1 percent water-soluble chloride ions by mass of cementitious material.
   1. Water-Reducing Admixture: ASTM C494/C494M, Type A.
   2. Retarding Admixture: ASTM C494/C494M, Type B.
   3. Water-Reducing and Retarding Admixture: ASTM C494/C494M, Type D.
   4. High-Range, Water-Reducing Admixture: ASTM C494/C494M, Type F.
   5. High-Range, Water-Reducing and Retarding Admixture: ASTM C494/C494M, Type G.
   6. Plasticizing and Retarding Admixture: ASTM C1017/C1017M, Type II.

E. Water: Potable and complying with ASTM C94/C94M.

2.5 CURING MATERIALS

A. Absorptive Cover: AASHTO M 182, Class 3, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. dry or cotton mats.

B. Moisture-Retaining Cover: ASTM C171, polyethylene film or white burlap-polyethylene sheet.

C. Water: Potable.

D. Evaporation Retarder: Waterborne, monomolecular, film forming, manufactured for application to fresh concrete.

E. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C309, Type 1, Class B, dissipating.

2.6 RELATED MATERIALS

A. Joint Fillers: ASTM D1751, asphalt-saturated cellulosic fiber in preformed strips.

B. Bonding Agent: ASTM C1059/C1059M, Type II, non-redispersible, acrylic emulsion or styrene butadiene.

C. Epoxy-Bonding Adhesive: ASTM C881/C881M, two-component epoxy resin capable of humid curing and bonding to damp surfaces; of class suitable for application temperature, of grade complying with requirements, and of the following types:
1. Types I and II, nonload bearing, for bonding hardened or freshly mixed concrete to hardened concrete.

2.7 CONCRETE MIXTURES

A. Prepare design mixtures, proportioned according to ACI 301, for each type and strength of normal-weight concrete, and as determined by either laboratory trial mixtures or field experience.
1. Use a qualified independent testing agency for preparing and reporting proposed concrete design mixtures for the trial batch method.

B. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows:
1. Fly Ash or Pozzolan: 25 percent.
2. Slag Cement: 50 percent.
3. Combined Fly Ash or Pozzolan, and Slag Cement: 50 percent, with fly ash or pozzolan not exceeding 25 percent.

C. Add air-entraining admixture at manufacturer's prescribed rate to result in normal-weight concrete at point of placement having an air content as follows:
1. Air Content, 1-inch Nominal Maximum Aggregate Size: 6 percent plus or minus 1-1/2 percent.

D. Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement.

E. Chemical Admixtures: Use admixtures according to manufacturer's written instructions.
1. Use high-range, water-reducing admixture in concrete as required for placement and workability.
2. Use water-reducing and retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.

F. Concrete Mixtures: Normal-weight concrete.
   1. Compressive Strength (28 Days): 4500 psi.
   2. Maximum W/C Ratio at Point of Placement: 0.45.
   3. Slump Limit: 5 inches, plus or minus 1 inch.

2.8 CONCRETE MIXING

A. Ready-Mixed Concrete: Measure, batch, and mix concrete materials and concrete according to ASTM C94/C94M. Furnish batch certificates for each batch discharged and used in the Work.
   1. When air temperature is between 85 and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine exposed subgrades and subbase surfaces for compliance with requirements for dimensional, grading, and elevation tolerances.

B. Proof-roll prepared subbase surface below concrete paving to identify soft pockets and areas of excess yielding.
   1. Completely proof-roll subbase in one direction. Limit vehicle speed to 3 mph.
   2. Proof-roll with a pneumatic-tired and loaded, 10-wheel, tandem-axle dump truck weighing not less than 15 tons.
   3. Correct subbase with soft spots and areas of pumping or rutting exceeding depth of 1/2 inch according to requirements in Section 31 2000 "Earth Moving."

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Remove loose material from compacted subbase surface immediately before placing concrete.

3.3 EDGE FORMS AND SCREED CONSTRUCTION

A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.

B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

3.4 INSTALLATION OF STEEL REINFORCEMENT

A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.

B. Clean reinforcement of loose rust and mill scale, earth, ice, or other bond-reducing materials.

C. Epoxy-Coated Reinforcement: Use epoxy-coated steel wire ties to fasten epoxy-coated reinforcement. Repair cut and damaged epoxy coatings with epoxy repair coating according to ASTM D3963/D3963M.

3.5 JOINTS

A. General: Form construction, isolation, and contraction joints and tool edges true to line, with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline unless otherwise indicated.
   1. When joining existing paving, place transverse joints to align with previously placed joints unless otherwise indicated.

B. Construction Joints: Set construction joints at side and end terminations of paving and at locations where paving operations are stopped for more than one-half hour unless paving terminates at isolation joints.
   1. Doweled Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or coat with asphalt one-half of dowel length to prevent concrete bonding to one side of joint.

C. Expansion Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
   1. Locate expansion joints at intervals of 50 feet unless otherwise indicated.
   2. Extend joint fillers full width and depth of joint.
   3. Terminate joint filler not less than 1/2 inch or more than 1 inch below finished surface if joint sealant is indicated.
   4. Place top of joint filler flush with finished concrete surface if joint sealant is not indicated.
   5. Furnish joint fillers in one-piece lengths. Where more than one length is required, lace or clip joint-filler sections together.
   6. During concrete placement, protect top edge of joint filler with metal, plastic, or other temporary preformed cap. Remove protective cap after concrete has been placed on both sides of joint.

D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, as follows:
   1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint with grooving tool to a 1/4-inch radius. Repeat grooving of contraction joints after applying surface finishes. Eliminate grooving-tool marks on concrete surfaces.
      a. Tolerance: Ensure that grooved joints are within 3 inches either way from centers of dowels.
   2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch-wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before developing random contraction cracks.

a. Tolerance: Ensure that sawed joints are within 3 inches either way from centers of dowels.

E. Edging: After initial floating, tool edges of paving, gutters, curbs, and joints in concrete with an edging tool to a 1/4-inch radius. Repeat tooling of edges after applying surface finishes. Eliminate edging-tool marks on concrete surfaces.

3.6 CONCRETE PLACEMENT

A. Before placing concrete, inspect and complete formwork installation and items to be embedded or cast-in.

B. Remove snow, ice, or frost from subbase surface before placing concrete. Do not place concrete on frozen surfaces.

C. Moisten subbase to provide a uniform dampened condition at time concrete is placed. Do not place concrete around manholes or other structures until they are at required finish elevation and alignment.

D. Comply with ACI 301 requirements for measuring, mixing, transporting, and placing concrete.

E. Do not add water to concrete during delivery or at Project site. Do not add water to fresh concrete after testing.

F. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.

G. Consolidate concrete according to ACI 301 by mechanical vibrating equipment supplemented by hand spading, rodding, or tamping.
1. Consolidate concrete along face of forms and adjacent to transverse joints with an internal vibrator. Keep vibrator away from joint assemblies or side forms. Use only square-faced shovels for hand spreading and consolidation. Consolidate with care to prevent dislocating dowels and joint devices.

H. Screed paving surface with a straightedge and strike off.

I. Commence initial floating using bull floats or darbies to impart an open-textured and uniform surface plane before excess moisture or bleedwater appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.

3.7 FLOAT FINISHING

A. General: Do not add water to concrete surfaces during finishing operations.

B. Float Finish: Begin the second floating operation when bleedwater sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats or by hand floating if area is small or inaccessible to

power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.

1. Medium-to-Fine-Textured Broom Finish: Draw a soft-bristle broom across float-finished concrete surface, perpendicular to line of traffic, to provide a uniform, fine-line texture.

3.8 CONCRETE PROTECTION AND CURING

A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.

B. Comply with ACI 306.1 for cold-weather protection.

C. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete but before float finishing.

D. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.

E. Curing Methods: Cure concrete by a combination of these as follows:
   1. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:
      a. Water.
      b. Continuous water-fog spray.
      c. Absorptive cover, water saturated and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers.
   2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Immediately repair any holes or tears occurring during installation or curing period, using cover material and waterproof tape.
   3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating, and repair damage during curing period.
      a. Do not use curing compound on surfaces to be covered by unit pavers.

3.9 PAVING TOLERANCES

A. Comply with tolerances in ACI 117 and as follows:
   1. Horizontal Alignment: 1/4 inch.
   2. Elevation: 1/8 inch.
   3. Thickness: Plus 3/8 inch, minus 1/8 inch.
   4. Surface: Gap below 10-feet-long; unleveled straightedge not to exceed 1/2 inch.
   5. Alignment of Tie-Bar End Relative to Line Perpendicular to Paving Edge: 1/2 inch per 12 inches of tie bar.
   6. Lateral Alignment and Spacing of Dowels: 1 inch.

7. Vertical Alignment of Dowels: 1/4 inch.
8. Alignment of Dowel-Bar End Relative to Line Perpendicular to Paving Edge: 1/4 inch per 12 inches of dowel.
9. Joint Spacing: 3 inches.
10. Contraction Joint Depth: Plus 1/4 inch, no minus.
11. Joint Width: Plus 1/8 inch, no minus.

3.10 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.

B. Testing Services: Testing and inspecting of composite samples of fresh concrete obtained according to ASTM C172/C172M will be performed according to the following requirements:
1. Testing Frequency: Obtain at least one composite sample for each 5000 sq. ft. or fraction thereof of each concrete mixture placed each day.
a. When frequency of testing will provide fewer than five compressive-strength tests for each concrete mixture, testing to be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
2. Slump: ASTM C143/C143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture. Perform additional tests when concrete consistency appears to change.
3. Air Content: ASTM C231/C231M, pressure method; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
4. Concrete Temperature: ASTM C1064/C1064M; one test hourly when air temperature is 40 deg F and below and when it is 80 deg F and above, and one test for each composite sample.
5. Compression Test Specimens: ASTM C31/C31M; cast and laboratory cure one set of three standard cylinder specimens for each composite sample.
6. Compressive-Strength Tests: ASTM C39/C39M; test one specimen at seven days and two specimens at 28 days.
a. A compressive-strength test to be the average compressive strength from two specimens obtained from same composite sample and tested at 28 days.

C. Strength of each concrete mixture will be satisfactory if average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.

D. Test results to be reported in writing to Architect, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests to contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.

E. Additional Tests: Testing and inspecting agency will make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Architect.

F. Concrete paving will be considered defective if it does not pass tests and inspections.

G. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

H. Prepare test and inspection reports.

3.11 REPAIR AND PROTECTION

A. Remove and replace concrete paving that is broken, damaged, or defective or that does not comply with requirements in this Section. Remove work in complete sections from joint to joint unless otherwise approved by Architect.

B. Drill test cores, where directed by Architect, when necessary to determine magnitude of cracks or defective areas. Fill drilled core holes in satisfactory paving areas with portland cement concrete bonded to paving with epoxy adhesive.

C. Protect concrete paving from damage. Exclude traffic from paving for at least 14 days after placement. When construction traffic is permitted, maintain paving as clean as possible by removing surface stains and spillage of materials as they occur.

D. Maintain concrete paving free of stains, discoloration, dirt, and other foreign material. Sweep paving not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION 32 1313

SECTION 32 1373 - CONCRETE PAVING JOINT SEALANTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Cold-applied joint sealants.
2. Joint-sealant backer materials.
3. Primers.

B. Related Requirements:
1. Section 07 9200 "Joint Sealants" for sealing nontraffic and traffic joints in locations not specified in this Section.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

A. Product Data:
1. Concrete pavement joint sealants.
2. Joint-sealant backer materials.

B. Samples for Initial Selection: Manufacturer's standard color sheets, showing full range of available colors for each type of joint sealant.

C. Samples for Verification: Actual sample of finished products for each kind and color of joint sealant required.
1. Size: Joint sealants in 1/2-inch-wide joints formed between two 6-inch-long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Statements: For Installer.

1.5 QUALITY ASSURANCE

A. Qualifications:
1. Installers: Entity that employs installers and supervisors who are trained and approved by manufacturer.

1.6 FIELD CONDITIONS

A. Do not proceed with installation of joint sealants under the following conditions:

1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F.
2. When joint substrates are wet.
3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain joint sealants from single manufacturer for each sealant type.

2.2 JOINT SEALANTS, GENERAL

A. Compatibility: Provide joint sealants, backer materials, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

2.3 COLD-APPLIED JOINT SEALANTS

A. Single-Component, Nonsag, Silicone Joint Sealant: ASTM D5893/D5893M, Type NS.

B. Single-Component, Self-Leveling, Silicone Joint Sealant: ASTM D5893/D5893M, Type SL.

C. Multicomponent, Nonsag, Urethane, Elastomeric Joint Sealant: ASTM C920, Type M, Grade NS, Class 25, for Use T.

D. Single Component, Pourable, Urethane, Elastomeric Joint Sealant: ASTM C920, Type S, Grade P, Class 25, for Use T.

E. Multicomponent, Pourable, Urethane, Elastomeric Joint Sealant: ASTM C920, Type M, Grade P, Class 25, for Use T.

2.4 JOINT-SEALANT BACKER MATERIALS

A. Joint-Sealant Backer Materials: Nonstaining; compatible with joint substrates, sealants, primers, and other joint fillers; and approved for applications indicated by joint-sealant manufacturer, based on field experience and laboratory testing.

B. Round Backer Rods for Cold-Applied Joint Sealants: ASTM D5249, Type 3, of diameter and density required to control joint-sealant depth and prevent bottom-side adhesion of sealant.

C. Backer Strips for Cold- and Hot-Applied Joint Sealants: ASTM D 5249; Type 2; of thickness and width required to control joint-sealant depth, prevent bottom-side adhesion of sealant, and fill remainder of joint opening under sealant.

2.5 PRIMERS

A. Primers: Product recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine joints to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Surface Cleaning of Joints: Before installing joint sealants, clean out joints immediately to comply with joint-sealant manufacturer's written instructions.
   1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.

B. Joint Priming: Prime joint substrates where indicated or where recommended in writing by joint-sealant manufacturer, based on preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.

3.3 INSTALLATION OF JOINT SEALANTS

A. Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated unless more stringent requirements apply.

B. Joint-Sealant Installation Standard: Comply with recommendations in ASTM C1193 for use of joint sealants as applicable to materials, applications, and conditions.

C. Install joint-sealant backers to support joint sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
   1. Do not leave gaps between ends of joint-sealant backer materials.
   2. Do not stretch, twist, puncture, or tear joint-sealant backer materials.
   3. Remove absorbent joint-sealant backer materials that have become wet before sealant application and replace them with dry materials.

D. Install joint sealants immediately following backer material installation, using proven techniques that comply with the following:
   1. Place joint sealants so they fully contact joint substrates.
   2. Completely fill recesses in each joint configuration.

3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

E. Tooling of Nonsag Joint Sealants: Immediately after joint-sealant application and before skinning or curing begins, tool sealants in accordance with the following requirements to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint:
1. Remove excess joint sealant from surfaces adjacent to joints.
2. Use tooling agents that are approved in writing by joint-sealant manufacturer and that do not discolor sealants or adjacent surfaces.

F. Provide joint configuration to comply with joint-sealant manufacturer's written instructions unless otherwise indicated.

3.4 CLEANING AND PROTECTION

A. Clean off excess joint sealant as the Work progresses, by methods and with cleaning materials approved in writing by joint-sealant manufacturers.

B. Protect joint sealants, during and after curing period, from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately and replace with joint sealant so installations in repaired areas are indistinguishable from the original work.

END OF SECTION 32 1373

SECTION 32 1723 - PAVEMENT MARKINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes painted markings applied to asphalt and concrete pavement.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
   1. Review methods and procedures related to marking pavement including, but not limited to, the following:
      a. Pavement aging period before application of pavement markings.
      b. Review requirements for protecting pavement markings, including restriction of traffic during installation period.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include technical data and tested physical and performance properties.

B. Shop Drawings: For pavement markings.
   1. Indicate pavement markings, colors, lane separations, defined parking spaces, and dimensions to adjacent work.
   2. Indicate, with international symbol of accessibility, spaces allocated for people with disabilities.

1.4 QUALITY ASSURANCE

A. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of the MUTCD for pavement-marking work.
   1. Measurement and payment provisions and safety program submittals included in standard specifications do not apply to this Section.

1.5 FIELD CONDITIONS

A. Environmental Limitations: Proceed with pavement marking only on clean, dry surfaces and at a minimum ambient or surface temperature of 40 deg F for alkyd materials and 55 deg F for water-based materials, and not exceeding 95 deg F.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Accessibility Standard: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design".

2.2 PAVEMENT-MARKING PAINT

A. Pavement-Marking Paint: Latex, waterborne emulsion, lead and chromate free, ready mixed, complying with FS TT-P-1952, Type II, with drying time of less than 45 minutes.
   1. Color: White, Yellow, Blue, As indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that pavement is dry and in suitable condition to begin pavement marking according to manufacturer's written instructions.

B. Proceed with pavement marking only after unsatisfactory conditions have been corrected.

3.2 PAVEMENT MARKING

A. Do not apply pavement-marking paint until layout, colors, and placement have been verified with Architect.

B. Allow paving to age for a minimum of seven days before starting pavement marking.

C. Sweep and clean surface to eliminate loose material and dust.

D. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils.
   1. Apply graphic symbols and lettering with paint-resistant, die-cut stencils, firmly secured to pavement. Mask an extended area beyond edges of each stencil to prevent paint application beyond stencil. Apply paint so that it cannot run beneath stencil.

3.3 PROTECTING AND CLEANING

A. Protect pavement markings from damage and wear during remainder of construction period.

B. Clean spillage and soiling from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 32 1723

SECTION 32 1726 - TACTILE WARNING SURFACING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Detectable warning unit pavers.

B. Related Requirements:
1. Section 32 1313 "Concrete Paving" for concrete walkways serving as substrates for tactile warning surfacing.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples for Verification: For each type of tactile warning surface, in manufacturer's standard sizes unless otherwise indicated, showing edge condition, truncated-dome pattern, texture, color, and cross section; with fasteners and anchors.

1.3 CLOSEOUT SUBMITTALS

A. Maintenance Data: For tactile warning surfacing, to include in maintenance manuals.

1.4 QUALITY ASSURANCE

A. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
1. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.6 PROJECT CONDITIONS

A. Cold-Weather Protection: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen subgrade or setting beds. Remove and replace unit paver work damaged by frost or freezing.

B. Weather Limitations for Mortar and Grout:
1. Cold-Weather Requirements: Comply with cold-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.
2. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602. Provide artificial shade and windbreaks,

and use cooled materials as required. Do not apply mortar to substrates with temperatures of 100 deg F and higher.

a. When ambient temperature exceeds 100 deg F, or when wind velocity exceeds 8 mph and ambient temperature exceeds 90 deg F, set unit pavers within 1 minute of spreading setting-bed mortar.

PART 2 - PRODUCTS

2.1 TACTILE WARNING SURFACING, GENERAL

A. Accessibility Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines for Buildings and Facilities for tactile warning surfaces.

1. For tactile warning surfaces composed of multiple units, provide units that when installed provide consistent side-to-side and end-to-end dome spacing that complies with requirements.

B. Source Limitations: Obtain each type of tactile warning surfacing paver and setting material from single source with resources to provide materials and products of consistent quality in appearance and physical properties.

2.2 DETECTABLE WARNING UNIT PAVERS

A. Brick Pavers: Heavy vehicular paving brick; ASTM C 1272, Type R, Application PX, with accessible detectable warning truncated domes on exposed surface of units.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
   a. Belden Brick
   b. Pine Hall Brick.
   c. Approved Equal.
2. Verify shapes and sizes available from manufacturers.
3. Shapes and Sizes:
   a. Thickness: 2-3/4 inches at edge of paver.
   b. Face Size: Nominal 4 by 8 inches.
4. Dome Spacing and Configuration: Manufacturer's standard compliant spacing, in square pattern.
5. Color: As selected by landscape architect from manufacturer’s full color range.

B. Setting Bed: Comply with requirements in Section 32 1400 "Unit Paving."

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that pavement is in suitable condition to begin installation according to manufacturer's written instructions. Verify that installation of tactile warning surfacing will comply with accessibility requirements upon completion.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF TACTILE WARNING SURFACING

A. General: Prepare substrate and install tactile warning surfacing according to manufacturer's written instructions unless otherwise indicated.

B. Place tactile warning surfacing units in dimensions and orientation indicated. Comply with location requirements of AASHTO MP 12.

3.3 INSTALLATION OF DETECTABLE WARNING UNIT PAVERS

A. Unit Paver Installation, General:
1. Setting-Bed and Unit Paver Installation: Comply with installation requirements in Section 32 1400 "Unit Paving."

3.4 CLEANING AND PROTECTION

A. Remove and replace tactile warning surfacing that is broken or damaged or does not comply with requirements in this Section. Remove in complete sections from joint to joint unless otherwise approved by Architect. Replace using tactile warning surfacing installation methods acceptable to Architect.

B. Protect tactile warning surfacing from damage and maintain free of stains, discoloration, dirt, and other foreign material.

END OF SECTION 32 1726

SECTION 32 3300 - SITE FURNISHINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Site Furnishings – Base Bid
      a. Bench.
      b. Bicycle Loop.
      c. Litter receptacles.
      d. Bike Repair Station.
      e. Bollard.
      f. Wheel Stops.
   2. Site Furnishings – Alternates
      a. Timber Railing.
      b. Rectangular Rapid Flashing Beacon (RRFB)

B. Related Requirements:
   1. Section 31 2000 "Earth Moving" for excavation for installing concrete footings.
   2. Section 32 1313 “Concrete Paving” for concrete.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For each exposed product and for each color and texture specified.

C. Samples for Verification: For each type of exposed finish, not less than 6-inch-long linear components and 4-inch-square sheet components.

1.3 INFORMATIONAL SUBMITTALS

A. Material Certificates: For site furnishings manufactured with preservative-treated wood.
   1. Indicate type of preservative used and net amount of preservative retained. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For site furnishings to include in maintenance manuals.

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Anchors: Two assemblies of each type used.

PART 2 - PRODUCTS

2.1 SITE FURNISHINGS

A. BENCH
1. Responsibility: Contractor purchased, Contractor installed.
2. Manufacturer: Provide the following
a. Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include:
1) Green Tree Plastics, Evansville, IN
Phone: (866) 397-5742
2) Email: sales@greentreeplastics.com
Website: www.greentreeplastics.com
a) Hoosier Bench, 6 foot, backed, 2x6s
b) Overall Size: 6’
c) Mounting: Surface Mount, stainless steel anchors and mounting bolts
d) Colors: Black frame with green slats
e) Quantity: 8

B. BICYCLE RACK
1. Responsibility: Contractor purchased, Contractor installed.
2. Manufacturer: Provide the following
a. Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include:
1) Madrax. www.madrax.com
a) Model: U190-IG
b) Mounting: Embed Mount
c) Finish: Powdercoat
d) Colors: Dark Green or other standard color as selected by Landscape Architect
e) Quantity: 2

C. TRASH RECEPTACLES
1. Responsibility: Owner purchased, Owner installed.

D. BIKE REPAIR STATION
1. Responsibility: Contractor purchased, contractor installed.
2. Manufacturer: Provide the following
a. Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include:
1) Madrax. www.madrax.com
Phone (800) 448-7931
Website: www.madrax.com
a) Repairstan – Bike Repair Station
b) Model: BRS-NP
c) Overall Size: 53 inch height x 18 inch depth
d) Mounting: Surface Mount
e) Finish: Powdercoat

f) Colors: Dark green or other standard color as selected by Landscape Architect
g) Quantity: 1

E. BOLLARD
1. Responsibility: Contractor purchased, contractor installed.
2. Manufacturer: Provide the following
a. Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include:
1) Reliance Foundry, Surrey, BC, Canada
Phone: (877) 789-3245
Website: www.reliance-foundry.com
a) Steel Bollard
b) Model: R-7902
c) Overall Size: 36 inch height x 4.325 inch diameter
d) Material: Steel
e) Mounting: embedded into concrete
f) Finish: powder coat
g) Colors: Dark Green or other standard color as selected by Landscape Architect
h) Quantity: 2

F. PRECAST CONCRETE WHEEL STOP
1. Responsibility: Contractor purchased, contractor installed.
2. Manufacturer: Provide the following
a. Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include:
1) Indiana Barrier, Greenwood, IN
Phone (317) 549-2900
Website: www.indianabarrier.com
2) Drain Parking Bumper
3) Overall Size: 7 foot long, 5 inch height, 9 inch width
4) Material: Reinforced precast concrete
5) Mounting: Surface Mount, 2) 18 inch #5 rebar pins each
6) Quantity: 8 locations ADA parking spaces

2.2 SITE FURNISHINGS – BID ALTERNATES

A. TIMBER RAILING SYSTEM
1. Responsibility: Contractor purchased, contractor assembled and installed.
2. Manufacturers: Provide the following:
a. Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include:
1) Manufacturer: American Timber and Steel, Norwalk, OH
Phone (800) 551-9663
Website: www.americantimberandsteel.com
2) Model: “Log Rail” with rounded ends
3) Finish: natural
4) Installation: per manufacturer’s recommendations and drawings.
5) Quantity: Lengths as follows:

a) 420 LF.
b) 580 LF.

B. RECTANGULAR RAPID FLASHING BEACON (RRFB)
1. Responsibility: Contractor purchased, contractor assembled and installed.
2. Manufacturers: Provide the following:
a. Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include:
1) TAPCO. (800) 236.0112. www.tapconet.com.
2) Model: Rectangular Rapid Flashing Beacon
3) Selections: 4.5 inch aluminum pole package, LED Bulldog Push Button, IWS controller, Blinkerbeam wireless radio, RRFB-XL2, 65W Solar Panel, 50ah battery, medium control cabinet, mounting hardware, MUTCD signage.
4) Color: Galvanized and per MUTCD.
5) Quantity: Two complete assemblies.

2.3 MATERIALS

A. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated; free of surface blemishes and complying with the following:
1. Rolled or Cold-Finished Bars, Rods, and Wire: ASTM B211.
2. Extruded Bars, Rods, Wire, Profiles, and Tubes: ASTM B221.
3. Structural Pipe and Tube: ASTM B429/B429M.
4. Sheet and Plate: ASTM B209.
5. Castings: ASTM B26/B26M.

B. Steel and Iron: Free of surface blemishes and complying with the following:
1. Plates, Shapes, and Bars: ASTM A36/A36M.
2. Steel Pipe: Standard-weight steel pipe complying with ASTM A53/A53M, or electric-resistance-welded pipe complying with ASTM A135/A135M.
3. Tubing: Cold-formed steel tubing complying with ASTM A500/A500M.
4. Mechanical Tubing: Cold-rolled, electric-resistance-welded carbon or alloy steel tubing complying with ASTM A513/A513M, or steel tubing fabricated from steel complying with ASTM A1011/A1011M and complying with dimensional tolerances in ASTM A500/A500M; zinc coated internally and externally.
5. Sheet: Commercial steel sheet complying with ASTM A1011/A1011M.
6. Gray-Iron Castings: ASTM A48/A48M, Class 200.

C. Stainless Steel: Free of surface blemishes and complying with the following:
1. Sheet, Strip, Plate, and Flat Bars: ASTM A240/A240M or ASTM A666.
2. Pipe: Schedule 40 steel pipe complying with ASTM A312/A312M.
3. Tubing: ASTM A554.

D. Wood: Surfaced smooth on four sides with eased edges; kiln dried, free of knots, solid stock of species indicated.
1. Wood Species: Manufacturer's standard.
2. Finish: Manufacturer's standard

E. Fiberglass: Multiple laminations of glass-fiber-reinforced polyester resin with UV-light stable, colorfast, nonfading, weather- and stain-resistant, colored polyester gel coat, and with manufacturer's standard finish.

F. Plastic: Color impregnated, color and UV-light stabilized, and mold resistant.
   1. Polyethylene: Fabricated from virgin plastic HDPE resin.

G. Anchors, Fasteners, Fittings, and Hardware: stainless steel, corrosion-resistant, and in accordance with manufactuer specifications.
   1. Angle Anchors: For inconspicuously bolting legs of site furnishings as indicated on drawings.
      Antitheft Hold-Down Brackets: For securing site furnishings to substrate; as indicated on drawings.

H. Nonshrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M; recommended in writing by manufacturer, for exterior applications.

I. Galvanizing: Where indicated for steel and iron components, provide the following protective zinc coating applied to components after fabrication:
   1. Zinc-Coated Tubing: External, zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. of zinc after welding, a chromate conversion coating, and a clear, polymer film. Internal, same as external or consisting of 81 percent zinc pigmented coating, not less than 0.3 mil thick.
   2. Hot-Dip Galvanizing: According to ASTM A123/A123M, ASTM A153/A153M, or ASTM A924/A924M.

2.4 WOOD-PRESERVATIVE-TREATED MATERIALS

A. Preservative Treatment: Pressure-treat wood according to AWPA U1, Use Category UC3b, and the following:
   1. Use preservative chemicals acceptable to authorities having jurisdiction and containing no arsenic or chromium. Use chemical formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants to distinguish treated materials from untreated materials.
   2. Kiln-dry lumber and plywood after treatment to a maximum moisture content, respectively, of 19 and 15 percent. Do not use materials that are warped or do not comply with requirements for untreated materials.

2.5 FABRICATION

A. Metal Components: Form to required shapes and sizes with true, consistent curves, lines, and angles. Separate metals from dissimilar materials to prevent electrolytic action.

B. Welded Connections: Weld connections continuously. Weld solid members with full-length, full-penetration welds and hollow members with full-circumference welds. At exposed connections, finish surfaces smooth and blended, so no roughness or unevenness shows after finishing and welded surface matches contours of adjoining surfaces.

C. Pipes and Tubes: Form simple and compound curves by bending members in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of handrail and railing components.

D. Preservative-Treated Wood Components: Complete fabrication of treated items before treatment if possible. If cut after treatment, apply field treatment complying with AWPA M4 to cut surfaces.

E. Exposed Surfaces: Polished, sanded, or otherwise finished; all surfaces smooth, free of burrs, barbs, splinters, and sharpness; all edges and ends rolled, rounded, or capped.

F. Factory Assembly: Factory assemble components to greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

2.6 GENERAL FINISH REQUIREMENTS

A. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.7 ALUMINUM FINISHES

A. Powder-Coat Finish: Manufacturer's standard polyester powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

2.8 STEEL AND GALVANIZED-STEEL FINISHES

A. Powder-Coat Finish: Manufacturer's standard polyester, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

B. PVC Finish: Manufacturer's standard, UV-light stabilized, mold-resistant, slip-resistant, matte-textured, dipped or sprayed-on, PVC-plastisol finish, with flame retardant added; complying with coating manufacturer's written instructions for pretreatment, application, and minimum dry film thickness.

2.9 IRON FINISHES

A. Powder-Coat Finish: Manufacturer's standard polyester powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

2.10 STAINLESS STEEL FINISHES

A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.

1. Run directional finishes with long dimension of each piece.
2. Directional Satin Finish: ASTM A480/A480M, No 4.
3. Dull Satin Finish: ASTM A480/A480M, No. 6.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.

B. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.

C. Install site furnishings level, plumb, true, and securely anchored or positioned at locations indicated on Drawings.

D. Post Setting: Set cast-in support posts in concrete footing with smooth top, shaped to shed water. Protect portion of posts above footing from concrete splatter. Verify that posts are set plumb or at correct angle and are aligned and at correct height and spacing. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.

E. Posts Set into Voids in Concrete: Form or core-drill holes for installing posts in concrete to depth recommended in writing by manufacturer of site furnishings and 3/4 inch larger than OD of post. Clean holes of loose material, insert posts, and fill annular space between post and concrete with nonshrink, nonmetallic grout or anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions, with top smoothed and shaped to shed water.

F. Pipe Sleeves: Use steel pipe sleeves preset and anchored into concrete for installing posts. After posts have been inserted into sleeves, fill annular space between post and sleeve with nonshrink, nonmetallic grout or anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions, with top smoothed and shaped to shed water.

END OF SECTION 32 3300

SECTION 32 9113 - SOIL PREPARATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes planting soils specified by composition of the mixes.

B. Related Requirements:
1. Section 32 9200 "Turf and Grasses" for placing topsoil for turf and grasses.
2. Section 32 9300 "Plants" for placing planting soil for plantings.

1.2 DEFINITIONS

A. Backfill: The earth used to replace or the act of replacing earth in an excavation. This can be amended or unamended soil as indicated.

B. CEC: Cation exchange capacity.

C. Compost: The product resulting from the controlled biological decomposition of organic material that has been sanitized through the generation of heat and stabilized to the point that it is beneficial to plant growth.

D. Imported Soil: Soil that is transported to Project site for use.

E. Manufactured Soil: Soil produced by blending soils, sand, stabilized organic soil amendments, and other materials to produce planting soil.

F. NAPT: North American Proficiency Testing Program. An SSSA program to assist soil-, plant-, and water-testing laboratories through interlaboratory sample exchanges and statistical evaluation of analytical data.

G. Organic Matter: The total of organic materials in soil exclusive of undecayed plant and animal tissues, their partial decomposition products, and the soil biomass; also called "humus" or "soil organic matter."

H. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified as specified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth.

I. RCRA Metals: Hazardous metals identified by the EPA under the Resource Conservation and Recovery Act.

J. SSSA: Soil Science Society of America.

K. Subgrade: Surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.

L. Subsoil: Soil beneath the level of subgrade; soil beneath the topsoil layers of a naturally occurring soil profile, typified by less than 1 percent organic matter and few soil organisms.

M. Surface Soil: Soil that is present at the top layer of the existing soil profile. In undisturbed areas, surface soil is typically called "topsoil"; but in disturbed areas such as urban environments, the surface soil can be subsoil.

N. USCC: U.S. Composting Council.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include recommendations for application and use.
   2. Include test data substantiating that products comply with requirements.
   3. Include sieve analyses for aggregate materials.
   4. Material Certificates: For each type of imported soil and soil amendment and fertilizer before delivery to the site, according to the following:
      a. Manufacturer's qualified testing agency's certified analysis of standard products.
      b. Analysis of fertilizers, by a qualified testing agency, made according to AAPFCO methods for testing and labeling and according to AAPFCO's SUIP #25.
      c. Analysis of nonstandard materials, by a qualified testing agency, made according to SSSA methods, where applicable.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For each testing agency.

B. Preconstruction Test Reports: For preconstruction soil analyses specified in "Preconstruction Testing" Article.

C. Field quality-control reports.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: The Contractor shall engage a qualified landscape subcontractor who has completed soil preparation work similar in material, design and extent to that indicated for this Project, with 5 years minimum experience in finish grading work, and with a record of successful landscape establishment. The Contractor shall require landscape subcontractor to maintain an experienced full-time supervisor on the Project site during times that soil preparation work and planting operations are in progress.

B. Testing Agency Qualifications: An independent, state-operated, or university-operated laboratory; experienced in soil science, soil testing, and plant nutrition; with the experience and capability to conduct the testing indicated; and that specializes in types of tests to be performed.
   1. Laboratories: Subject to compliance with requirements, provide testing by the following:
      a. A&L Great Lakes Laboratories. 3505 Conestoga Drive, Fort Wayne, Indiana 46808. 260-483-4759. www.algreatlakes.com.
      b. Approved Equal.

1.7 PRECONSTRUCTION TESTING

A. Preconstruction Testing Service: Engage a qualified testing agency to perform preconstruction soil analyses on imported soil.
   1. Notify Architect seven days in advance of the dates and times when laboratory samples will be taken.

B. Preconstruction Soil Analyses: For each unamended soil type, perform testing on soil samples and furnish soil analysis and a written report containing soil-amendment and fertilizer

recommendations by a qualified testing agency performing the testing according to "Soil-Sampling Requirements" and "Testing Requirements" articles.

1. Have testing agency identify and label samples and test reports according to sample collection and labeling requirements.

1.8 SOIL-SAMPLING REQUIREMENTS

A. General: Extract soil samples according to requirements in this article.

B. Sample Collection and Labeling: Have samples taken and labeled by state-certified, -licensed, or -registered soil scientist under the direction of the testing agency.

1. Number and Location of Samples: Minimum of five representative soil samples from varied locations for each soil to be used or amended for landscaping purposes.
2. Procedures and Depth of Samples: According to USDA-NRCS's "Field Book for Describing and Sampling Soils."
3. Division of Samples: Split each sample into two, equal parts. Send half to the testing agency and half to Owner for its records.
4. Labeling: Label each sample with the date, location keyed to a site plan or other location system, visible soil condition, and sampling depth.

1.9 TESTING REQUIREMENTS

A. General: Perform tests on soil samples according to requirements in this article.

B. Physical Testing:

1. Soil Texture: Soil-particle, size-distribution analysis by the following methods according to SSSA's "Methods of Soil Analysis - Part 1-Physical and Mineralogical Methods":
   a. Hydrometer Method: Report percentages of sand, silt, and clay.
2. Total Porosity: Calculate using particle density and bulk density according to SSSA's "Methods of Soil Analysis - Part 1-Physical and Mineralogical Methods."
3. Water Retention: According to SSSA's "Methods of Soil Analysis - Part 1-Physical and Mineralogical Methods."
4. Saturated Hydraulic Conductivity: According to SSSA's "Methods of Soil Analysis - Part 1-Physical and Mineralogical Methods"; at 85% compaction according to ASTM D 698 (Standard Proctor).

C. Chemical Testing:

1. CEC: Analysis by sodium saturation at pH 7 according to SSSA's "Methods of Soil Analysis - Part 3- Chemical Methods."
2. Clay Mineralogy: Analysis and estimated percentage of expandable clay minerals using CEC by ammonium saturation at pH 7 according to SSSA's "Methods of Soil Analysis - Part 1- Physical and Mineralogical Methods."
3. Metals Hazardous to Human Health: Test for presence and quantities of RCRA metals including aluminum, arsenic, barium, copper, cadmium, chromium, cobalt, lead, lithium, and vanadium. If RCRA metals are present, include recommendations for corrective action.
4. Phytotoxicity: Test for plant-available concentrations of phytotoxic minerals including aluminum, arsenic, barium, cadmium, chlorides, chromium, cobalt, copper, lead, lithium, mercury, nickel, selenium, silver, sodium, strontium, tin, titanium, vanadium, and zinc.

D. Fertility Testing: Soil-fertility analysis according to standard laboratory protocol of SSSA NAPT, including the following:

1. Percentage of organic matter.
2. CEC, calcium percent of CEC, and magnesium percent of CEC.
3. Soil reaction (acidity/alkalinity pH value).
4. Buffered acidity or alkalinity.
5. Nitrogen ppm.
6. Phosphorous ppm.

7. Potassium ppm.
8. Manganese ppm.
9. Manganese-availability ppm.
10. Zinc ppm.
11. Zinc availability ppm.
12. Copper ppm.
13. Sodium ppm and sodium absorption ratio.
14. Soluble-salts ppm.
15. Presence and quantities of problem materials including salts and metals cited in the Standard protocol. If such problem materials are present, provide additional recommendations for corrective action.
16. Other deleterious materials, including their characteristics and content of each.

E. Organic-Matter Content: Analysis using loss-by-ignition method according to SSSA's "Methods of Soil Analysis - Part 3- Chemical Methods."

F. Recommendations: Based on the test results, state recommendations for soil treatments and soil amendments to be incorporated to produce satisfactory planting soil suitable for healthy, viable plants indicated. Include, at a minimum, recommendations for nitrogen, phosphorous, and potassium fertilization, and for micronutrients.
1. Fertilizers and Soil Amendment Rates: State recommendations in weight per 1000 sq. ft. for 6-inch depth of soil.
2. Soil Reaction: State the recommended liming rates for raising pH or sulfur for lowering pH according to the buffered acidity or buffered alkalinity in weight per 1000 sq. ft. for 6-inch depth of soil.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and compliance with state and Federal laws if applicable.

B. Bulk Materials:
1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
2. Provide erosion-control measures to prevent erosion or displacement of bulk materials, discharge of soil-bearing water runoff, and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
3. Do not move or handle materials when they are wet or frozen.
4. Accompany each delivery of bulk fertilizers and soil amendments with appropriate certificates.

1.11 PROJECT CONDITIONS

A. Utilities: Determine location of above grade and underground utilities and perform work in a manner which will avoid damage. Hand-excavate, as required. Contractor shall be responsible for damages and repairs as a result of failure to locate utilities.

PART 2 - PRODUCTS

2.1 SOILS

A. TOPSOIL
1. Topsoil Source: Import topsoil from off-site local sources. Obtain topsoil from naturally well-drained local or regional sites, where topsoil occurs at least 4 inches deep; topsoil shall not be obtained from bogs or marshes; and that do not contain undesirable organisms; disease-causing plant pathogens; or obnoxious weeds and invasive plants.

Provide source information for topsoil as required in this specification. Source area for topsoil shall not have been under active cultivation for a period of 5 years minimum or from a commercial processing facility specializing in production of sands, gravels and stones.

2. Topsoil shall be natural, fertile, friable, and pervious soil. Topsoil shall be black or a darker shade of brown than underlying subsoil and clean and free of stones 1 inch or larger in any dimension, roots, plants, sods, clay lumps, brush, weeds and other extraneous materials harmful to plant growth. Topsoil shall not be pulverized. Topsoil shall comply with ASTM D 5268.
3. Topsoil shall meet the following composition.

Mechanical Analysis:	Loam or Sandy Loam	
pH Range:	6.0-7.0	
Organic Matter Content:	Minimum 2% and maximum 15%	
Chemical Analysis:	Magnesium:	100-250 ppm and 10-15% base saturation
	Phosphorus:	P1 (weak Bray) 20-30 ppm P2 (strong Bray) 40-60 ppm
	Potassium:	175-250 ppm and 5-20% base saturation
	Calcium:	1600 ppm and 65-75% base saturation
	Soluble Salts:	Shall not exceed .75 mmhos/cm

4. Topsoil will be considered defective if it does not pass tests. Contractor shall amend defective topsoil at no additional cost to the Owner.

B. PLANTING SOIL
1. Imported approved topsoil that has been modified with specified soil amendments and fertilizers to produce a soil mixture best for plant growth. Amend topsoil as follows:
   a. Ratio of Loose Compost to Soil: 1:4 by volume.
   b. Ratio of Loose Sphagnum Peat to Soil: as recommended by analysis.
   c. Weight/Volume of inorganic soil amendments: as recommended by analysis.
   d. Weight/Volume of fertilizers: as recommended by analysis.
2. Blend approved topsoil with compost and amendments as recommended by analysis to create Planting Soil.

C. BIO-RETENTION SOIL MIX
1. The soil mixture for the stormwater planters shall be composed of three materials: compost, expanded shale (Haydite), and pine fines. The mixture shall be comprised of 60% expanded shale, 20% compost, and 20% pine fines.

2.2 INORGANIC SOIL AMENDMENTS

A. Lime: ASTM C 602, agricultural liming material containing a minimum of 80 percent calcium carbonate equivalent and as follows:
1. Class: T, with a minimum of 99 percent passing through a No. 8 sieve and a minimum of 75 percent passing through a No. 60 sieve.
2. Form: Provide lime in form of ground dolomitic limestone.

B. Sulfur: Granular, biodegradable, and containing a minimum of 90 percent elemental sulfur, with a minimum of 99 percent passing through a No. 6 sieve and a maximum of 10 percent passing through a No. 40 sieve.

C. Iron Sulfate: Granulated ferrous sulfate containing a minimum of 20 percent iron and 10 percent sulfur.

D. Perlite: Horticultural perlite, soil amendment grade.

E. Agricultural Gypsum: Minimum 90 percent calcium sulfate, finely ground with 90 percent passing through a No. 50 sieve.

F. Sand: Clean, washed, natural or manufactured, free of toxic materials, and according to ASTM C 33/C 33M.

2.3 ORGANIC SOIL AMENDMENTS

A. Compost: Well-composted, stable, and weed-free organic matter produced by composting feedstock, and bearing USCC's "Seal of Testing Assurance," and as follows:
1. Feedstock: food, or biosolids; or source-separated or compostable mixed solid waste.
2. Reaction: pH of 5.5 to 8.
3. Soluble-Salt Concentration: Less than 5 dS/m.
4. Moisture Content: 35 to 55 percent by weight.
5. Organic-Matter Content: 50 to 60 percent of dry weight.
6. Particle Size: Minimum of 98 percent passing through a 3/4-inch sieve.

B. Sphagnum Peat: Partially decomposed sphagnum peat moss, finely divided or of granular texture with 100 percent passing through a 1-inch sieve, a pH of 3.4 to 4.8, and a soluble-salt content measured by electrical conductivity of maximum 5 dS/m.

2.4 FERTILIZERS

A. Slow-Release Fertilizer: Granular or pelleted fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium in the following composition:
1. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified testing agency.

PART 3 - EXECUTION

3.1 GENERAL

A. Place planting soil and fertilizers according to requirements in other Specification Sections.

B. Do not place topsoil before subgrade elevations have been inspected by Architect.

C. Proceed with placement only after unsatisfactory conditions have been corrected.

3.2 BIO-RETENTION SOIL MIX

A. Subgrade Drainage: The Contractor shall verify that the subsoil drains properly prior to placement of Stormwater Planter Soil Mix. The Contractor shall fill excavations with water to a minimum depth of 6 inches; if water does not percolate into subgrade soil within 24 hours, the Contractor shall notify the Landscape Architect of unexpected subsoil conditions and discuss course of action.

B. Placement: Soil mix shall be placed in 6 inch lifts, rototilled into the top 4 inches of subgrade, and compacted after each lift with foot pressure only. Finished soil grade shall be 1”- 2” below proposed finish grade in preparation for placement of mulch after plantings.

3.3 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.

B. Perform the following tests:
1. Compaction: Test planting-soil compaction after placing each lift and at completion using a densitometer or soil-compaction meter calibrated to a reference test value based on laboratory testing according to ASTM D 698. Space tests at no less than one for each 2000 sq. ft. of in-place soil or part thereof.

2. Repeat soil analysis testing as defined in article 1.10 “Testing Requirements” to verify that all requirements are met.

C. Soil will be considered defective if it does not pass tests.

D. Prepare test reports.

E. Label each sample and test report with the date, location keyed to a site plan or other location system, visible conditions when and where sample was taken, and sampling depth.

3.4 PROTECTION

A. Protect areas of in-place soil from additional compaction, disturbance, and contamination. Prohibit the following practices within these areas except as required to perform planting operations:
1. Storage of construction materials, debris, or excavated material.
2. Parking vehicles or equipment.
3. Vehicle traffic.
4. Foot traffic.
5. Erection of sheds or structures.
6. Impoundment of water.
7. Excavation or other digging unless otherwise indicated.

B. If planting soil or subgrade is overcompacted, disturbed, or contaminated by foreign or deleterious materials or liquids, remove the planting soil and contamination; restore the subgrade as directed by Architect and replace contaminated planting soil with new planting soil.

3.5 CLEANING

A. Protect areas adjacent to planting-soil preparation and placement areas from contamination. Keep adjacent paving and construction clean and work area in an orderly condition.

B. Remove surplus soil and waste material including excess subsoil, unsuitable materials, trash, and debris and legally dispose of them off Owner's property unless otherwise indicated.

END OF SECTION 32 9113

SECTION 32 9200 - TURF AND GRASSES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Seeding.
2. Sodding.
3. Turf renovation.
4. Erosion Control Mats and Blankets.

B. Related Requirements:
1. Section 32 9115 “Soil Preparation” for definitions, testing requirements, and installation of planting soil in sodded areas.
2. Section 32 9300 "Plants" for trees, shrubs, ground covers, and other plants as well as border edgings and mow strips.

1.2 DEFINITIONS

A. Finish Grade: Elevation of finished surface of planting soil.

B. Manufactured Soil: Soil produced off-site by homogeneously blending mineral soils or sand with stabilized organic soil amendments to produce topsoil or planting soil.

C. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. Pesticides include insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. They also include substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.

D. Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. Pests include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.

E. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth. See Section 32 9115 "Soil Preparation (Performance Specification)" and drawing designations for planting soils.

F. Subgrade: The surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.

G. Subsoil: All soil below the topsoil layer of the soil profile and typified by the lack of organic matter and soil organisms.

H. Topsoil: Soil that is present at the top layer of existing soil profile at the Project Site. In undisturbed areas, the surface soil is typically topsoil, but in disturbed areas such as urban environments, the surface soil can be subsoil.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For landscape Installer.

B. Certification of Grass Seed: From seed vendor for each grass-seed monostand or mixture, stating the botanical and common name, percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.
   1. Certification of each seed mixture for turfgrass sod. Include identification of source and name and telephone number of supplier.

C. Product Certificates: For sod, written submittal with verification from the RTF® Turf Producers Association that the selected local grower is licensed to produce and sell RTF® sod.

D. Pesticides and Herbicides: Product label and manufacturer's application instructions specific to Project.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: Recommended procedures to be established by Owner for maintenance of turf during a calendar year. Submit before expiration of required maintenance periods.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful turf establishment.
   1. Professional Membership: Installer shall be a member in good standing of either the National Association of Landscape Professionals or American Hort.
   2. Experience: Three years' experience in turf installation in addition to requirements in Section 01 4000 "Quality Requirements."
   3. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.
   4. Personnel Certifications: Installer's field supervisor shall have certification in one of the following categories from the National Association of Landscape Professionals:
      a. Landscape Industry Certified Technician - Exterior.
      b. Landscape Industry Certified Lawn Care Manager.
      c. Landscape Industry Certified Lawn Care Technician.
   5. Pesticide Applicator: State licensed, commercial.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Seed and Other Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of compliance with state and Federal laws, as applicable.

B. Sod: Harvest, deliver, store, and handle sod according to requirements in "Specifications for Turfgrass Sod Materials" and "Specifications for Turfgrass Sod Transplanting and Installation" sections in TPI's "Guideline Specifications to Turfgrass Sodding." Deliver sod within 24 hours of harvesting and in time for planting promptly. Protect sod from breakage and drying.

C. Bulk Materials:
   1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.

2. Provide erosion-control measures to prevent erosion or displacement of bulk materials; discharge of soil-bearing water runoff; and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
3. Accompany each delivery of bulk materials with appropriate certificates.

1.8 FIELD CONDITIONS

A. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with initial maintenance periods to provide required maintenance from date of Substantial Completion.
1. Spring Planting: March 15 to May 15.
2. Fall Planting: September 1 to October 31.
3. Planting at times other than specified may only be done under specific conditions and with written approval of the Owner and Architect.

B. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 SEED

A. Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Rules for Testing Seeds" for purity and germination tolerances.

B. Seed Species:
1. Quality, State Certified: State-certified seed of grass species as listed below for solar exposure.
2. Sun and Partial Shade, Cool-Season Grass: Proportioned by weight as follows:
a. Turf-type Tall Fescue Blend composed of at least three improved types.

2.2 TURFGRASS SOD

A. Turfgrass Sod: Certified, complying with "Specifications for Turfgrass Sod Materials" in TPI's "Guideline Specifications to Turfgrass Sodding." Furnish viable sod of uniform density, color, and texture that is strongly rooted and capable of vigorous growth and development when planted.

B. Turfgrass Species: Sod of grass species as follows, with not less than 85 percent germination, not less than 95 percent pure seed, and not more than 0.5 percent weed seed:
1. Sun and Partial Shade: Rhizomatous turf-type tall fescue (RTF®) as produced by members of the RTF Turf Producers Association.

C. Thickness of Cut: Turfgrass sod shall be machine cut at a uniform soil thickness of 0.60 (15mm) plus or minus 0.25 inch (6mm), at the time of cutting. Measurement of thickness shall exclude top growth and thatch.

D. Pad Size: Individual pieces of turfgrass sod shall be cut to the supplier’s standard width and length. Maximum allowable deviation from standard widths and lengths shall be plus or minus 0.5 inch (13mm) on width and plus or minus five percent on length. Broken pads and torn or uneven ends will not be acceptable.

E. Strength of Turf Sod Sections: Standard size sections of turfgrass sod shall be strong enough that it can be picked up and handled without damage.

F. Moisture Content: Turfgrass sod shall not be harvested or transplanted when its moisture content (excessively dry or wet) may adversely affect its survival.

G. Mowing Height: Before harvesting, the turfgrass shall be mowed uniformly at a height of 1 to 2.5 inches (25 to 60 mm).

H. Time Limitations: Turfgrass sod shall be harvested, delivered and installed/transplanted within a period of 24 hours, unless a suitable preservation method is approved prior to delivery. Turfgrass sod not transplanted within this period shall be inspected and approved by the Owner or Architect prior to its installation.

I. Disease and Insects: Turfgrass sod shall be reasonably free of disease, nematodes, and soil-borne insects.

2.3 FERTILIZERS

A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:
1. Composition:
a. Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing laboratory.

B. Slow-Release Fertilizer: Granular or pelleted fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium in the following composition:
1. Composition:
a. Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing laboratory.

2.4 MULCHES

A. Straw Mulch: Provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley.

2.5 PESTICIDES

A. General: Pesticide, registered and approved by the EPA, acceptable to authorities having jurisdiction, and of type recommended by manufacturer for each specific problem and as required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction.

B. Pre-Emergent Herbicide (Selective and Nonselective): Effective for controlling the germination or growth of weeds within planted areas at the soil level directly below the mulch layer.

C. Post-Emergent Herbicide (Selective and Nonselective): Effective for controlling weed growth that has already germinated.

2.6 EROSION-CONTROL MATERIALS

A. Erosion-Control Blankets: On slopes of 6:1 to under 4:1, Biodegradable wood excelsior, straw, or coconut-fiber mat enclosed in a biodegradable jute mesh. Include manufacturer's recommended steel wire staples for anchorage.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:

a. 'Extended Term' mat: BioNetSC150BN by North American Green, Evansville, IN, www.vmax3.com, or equal.

A. Erosion-Control Mats: Use in swales and on slopes of 4:1 and steeper. Cellular, non-biodegradable slope-stabilization mats designed to isolate and contain areas of soil over steeply sloped surface, of ½" nominal mat thickness. Include manufacturer's recommended steel wire anchorage system.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
a. 'Long Term' BioNetC125BN by North American Green, Evansville, IN, www.vmax3.com, or equal.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas to be planted for compliance with requirements and other conditions affecting installation and performance of the Work.
1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
2. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
3. Uniformly moisten excessively dry soil that is not workable or which is dusty.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

C. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Architect and replace with new planting soil.

3.2 PREPARATION

A. Protect structures; utilities; sidewalks; pavements; and other facilities, trees, shrubs, and plantings from damage caused by planting operations.
1. Protect grade stakes set by others until directed to remove them.

B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

3.3 TURF AREA PREPARATION

A. General: Prepare planting area for soil placement and mix planting soil according to Section 32 9115 "Soil Preparation."

B. Placing Planting Soil: Place and mix planting soil in place over exposed subgrade.
1. Reduce elevation of planting soil to allow for soil thickness of sod.

C. Moisten prepared area before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

D. Before planting, obtain Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

3.4 PREPARATION FOR EROSION-CONTROL MATERIALS

A. Prepare area as specified in "Turf Area Preparation" Article.

B. For erosion-control mats, install planting soil in two lifts, with second lift equal to thickness of erosion-control mats. Install erosion-control mat and fasten as recommended by material manufacturer.

C. Moisten prepared area before planting if surface is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

3.5 SEEDING

A. Sow seed with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph.
1. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.
2. Do not use wet seed or seed that is moldy or otherwise damaged.
3. Do not seed against existing trees. Limit extent of seed to outside edge of planting saucer.

B. Sow seed at a total rate of 3 to 4 lb/1000 sq. ft..

C. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with fine spray.

D. Protect seeded areas with slopes exceeding 1:4 with erosion-control blankets installed and stapled according to manufacturer's written instructions.

E. Protect seeded areas with slopes not exceeding 1:4 by spreading straw mulch. Spread uniformly at a minimum rate of 2 tons/acre to form a continuous blanket 1-1/2 inches in loose thickness over seeded areas. Spread by hand, blower, or other suitable equipment.
1. Anchor straw mulch by crimping into soil with suitable mechanical equipment.
2. Bond straw mulch by spraying with asphalt emulsion at a rate of 10 to 13 gal./1000 sq. ft.. Take precautions to prevent damage or staining of structures or other plantings adjacent to mulched areas. Immediately clean damaged or stained areas.

3.6 SODDING

A. Lay sod within 24 hours of harvesting unless a suitable preservation method is accepted by Architect prior to delivery time. Do not lay sod if dormant or if ground is frozen or muddy.

B. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod; do not stretch or overlap. Stagger sod strips or pads to offset joints in adjacent courses. Avoid damage to soil or sod during installation. Tamp and roll lightly to ensure contact with soil, eliminate air pockets, and form a smooth surface. Work sifted soil or fine sand into minor cracks between pieces of sod; remove excess to avoid smothering sod and adjacent grass.
1. Lay sod across slopes exceeding 1:3.
2. Anchor sod on slopes exceeding 1:6 with wood pegs or steel staples spaced as recommended by sod manufacturer but not less than two anchors per sod strip to prevent slippage.

C. Saturate sod with fine water spray within two hours of planting. During first week after planting, water daily or more frequently as necessary to maintain moist soil to a minimum depth of 1-1/2 inches below sod.

3.7 TURF RENOVATION

A. Renovate existing turf where indicated.

B. Renovate turf damaged by Contractor's operations, such as storage of materials or equipment and movement of vehicles.
   1. Reestablish turf where settlement or washouts occur or where minor regrading is required.
   2. Install new planting soil as required.

C. Remove sod and vegetation from diseased or unsatisfactory turf areas; do not bury in soil.

D. Remove topsoil containing foreign materials, such as oil drippings, fuel spills, stones, gravel, and other construction materials resulting from Contractor's operations, and replace with new planting soil.

E. Mow, dethatch, core aerate, and rake existing turf.

F. Remove weeds before seeding. Where weeds are extensive, apply selective herbicides as required. Do not use pre-emergence herbicides.

G. Remove waste and foreign materials, including weeds, soil cores, grass, vegetation, and turf, and legally dispose of them off Owner's property.

H. Till stripped, bare, and compacted areas thoroughly to a soil depth of 6 inches.

I. Apply soil amendments and initial fertilizer required for establishing new turf and mix thoroughly into top 4 inches of existing soil. Install new planting soil to fill low spots and meet finish grades.
   1. Soil Amendment(s): according to requirements of Section 32 9115 "Soil Preparation (Performance Specification)." Apply at the rate specified.
   2. Initial Fertilizer: applied according to manufacturer's recommendations.

J. Apply seed and protect with straw mulch as required for new turf.

K. Water newly planted areas and keep moist until new turf is established.

3.8 TURF MAINTENANCE

A. General: Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth turf. Provide materials and installation the same as those used in the original installation.
   1. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace materials and turf damaged or lost in areas of subsidence.
   2. In areas where mulch has been disturbed by wind or maintenance operations, add new mulch and anchor as required to prevent displacement.
   3. Apply treatments as required to keep turf and soil free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards.

B. Watering: Install and maintain temporary piping, hoses, and turf-watering equipment to convey water from sources and to keep turf uniformly moist to a depth of 4 inches.
   1. Schedule watering to prevent wilting, puddling, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.

2. Water turf with fine spray at a minimum rate of 1 inch per week unless rainfall precipitation is adequate.

C. Mow turf as soon as top growth is tall enough to cut. Repeat mowing to maintain specified height without cutting more than one-third of grass height. Remove no more than one-third of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Schedule initial and subsequent mowings to maintain the following grass height:
1. Mow Kentucky bluegrass to a height of 1-1/2 to 2 inches.
2. Mow turf-type tall fescue to a height of 2 to 3 inches.

3.9 SATISFACTORY TURF

A. Turf installations shall meet the following criteria as determined by Architect:
1. Satisfactory Seeded Turf: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. and bare spots not exceeding 5 by 5 inches.
2. Satisfactory Sodded Turf: At end of maintenance period, a healthy, well-rooted, even-colored, viable turf has been established, free of weeds, open joints, bare areas, and surface irregularities.

B. Use specified materials to reestablish turf that does not comply with requirements, and continue maintenance until turf is satisfactory.

3.10 PESTICIDE APPLICATION

A. Apply pesticides and other chemical products and biological control agents according to requirements of authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner before each application is performed.

B. Post-Emergent Herbicides (Selective and Nonselective): Apply only as necessary to treat already-germinated weeds and according to manufacturer's written recommendations.

3.11 CLEANUP AND PROTECTION

A. Promptly remove soil and debris created by turf work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.

B. Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of them off Owner's property.

C. Erect temporary fencing or barricades and warning signs as required to protect newly planted areas from traffic. Maintain fencing and barricades throughout initial maintenance period and remove after plantings are established.

D. Remove nondegradable erosion-control measures after grass establishment period.

3.12 MAINTENANCE SERVICE

A. Turf Maintenance Service: Provide full maintenance by skilled employees of landscape Installer. Maintain as required in "Turf Maintenance" Article. Begin maintenance immediately after each area is planted and continue until acceptable turf is established, but for not less than the following periods:

1. Seeded Turf: 90 days from date of Substantial Completion.
   a. When initial maintenance period has not elapsed before end of planting season, or if turf is not fully established, continue maintenance during next planting season.
2. Sodded Turf: 90 days from date of Substantial Completion.

END OF SECTION 32 9200

SECTION 32 9300 - PLANTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Plants.
   2. Tree stabilization.
   3. Tree-watering devices.

B. Related Requirements:
   1. Section 32 9200 "Turf and Grasses" for turf (lawn) planting, and erosion-control materials.

1.2 DEFINITIONS

A. Backfill: The earth used to replace or the act of replacing earth in an excavation.

B. Balled and Burlapped Stock: Plants dug with firm, natural balls of earth in which they were grown, with a ball size not less than diameter and depth recommended by ANSI Z60.1 for type and size of plant required; wrapped with burlap, tied, rigidly supported, and drum laced with twine with the root flare visible at the surface of the ball as recommended by ANSI Z60.1. Plants shall be dug within the same growing season that planting shall occur unless otherwise approved by Architect.

C. Balled and Potted Stock: Plants dug with firm, natural balls of earth in which they are grown and placed, unbroken, in a container. Ball size is not less than diameter and depth recommended by ANSI Z60.1 for type and size of plant required.

D. Basal Wound: A wound at the base of a tree.

E. Bole: A trunk or main stem of a tree.

F. Branch Flagging: A dead branch on a live tree with dying or dead foliage attached.

G. Caliper: Diameter of trunk measured 6 inches from the ground; if caliper is greater than 4 inches, the caliper measurement is taken at 12 inches from the ground.

H. Central Leader: A continuation of the main trunk located more or less in the center of the crown. Beginning at the lowest main branch and extending to the top of the tree. Also referred to as the dominant leader.

I. Check: A longitudinal fissure in wood resulting from stresses that causes wood fibers to separate along the grain.

J. Codominant Stems: Two or more tree stems of equal size that are joined at the base or partway up the bole.

K. Container-Grown Stock: Healthy, vigorous, well-rooted plants grown in a container, with a well-established root system reaching sides of container and maintaining a firm ball when removed from container. Container shall be rigid enough to hold ball shape and protect root mass during shipping and be sized according to ANSI Z60.1 for type and size of plant required.

L. Crook: An abrupt bend in a tree trunk or root.

M. Crotch Angle: The angle formed at the attachment between two stems.

N. Crown: The upper part of any tree carrying the main branches and foliage.

O. Cultivar: An assemblage of cultivated plants which is clearly distinguished by any characters (Morphological, physiological, cytological, chemical, or others), and which when reproduced, retains its distinguishing characters.

P. Decay: Any feature, fault, or flaw that lowers the strength, integrity, or utility of an affected part.

Q. Defective Plant: Any plant that fails to meet the plant quality requirement of this specification.

R. Finish Grade: Elevation of finished surface of planting soil.

S. Healthy: Plants that are growing in a condition that expresses leaf size, crown density, color, and with annual growth rates typical of the species and the cultivar's horticultural description, adjusted for the planting soil, drainage, and local weather conditions.

T. Included Bark or Embedded Bark (EB): Included bark occurs when bark is included into the attachment between two stems, preventing the joining of wood tissue in the area between the stems. Included bark attachments always have an extremely narrow angle between the stems, resembling the letter "V" (rather than the letter "U" or "L: typical in strong attachments). As stems having included bark increase in size, pressure is exerted from the stem expansion and a crack often develops in the crotch between the stems. Included bark attachments have a higher potential for failure in later years.

U. Mitigation: Actions that may be taken to reduce, minimize, or eliminate the potential risk posed by a tree hazard.

V. Native Plant Plugs: Healthy, vigorous, well-rooted plants grown in removable containers or integral peat pots with a well-established root system reaching the sides of the container and maintaining a firm root mass when removed from the container. Containers shall be in accordance with ANSI Z60.1 for type and size of plant required.

W. Necrosis: Death of a plant or a plant part; usually referring to localized death of living tissues of a host.

X. Normal: The prevailing protocol of industry standard(s).

Y. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. Pesticides include insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. They also include substances or mixtures intended for use as a plant regulator, defoliant, or desiccant. Some sources classify herbicides separately from pesticides.

Z. Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. Pests include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.

AA. Planting Area: Areas to be planted.

BB. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth. See Section 32 9115 "Soil Preparation (Performance Specification)" for drawing designations for planting soils.

CC. Plant; Plants; Plant Material: These terms refer to vegetation in general, including trees, shrubs, vines, ground covers, ornamental grasses, bulbs, corms, tubers, or herbaceous vegetation.

DD. Reasonable and reasonably: When used in this specification relative to plant quality, it is intended to mean that the conditions cited will not affect the establishment or long-term stability, health, or growth of the plant. This specification recognizes that it is not possible to produce plants free of all defects, but that some accepted industry protocols and standards result in plants unacceptable to this project. When reasonable or reasonably is used in relation to other issues such as weeds, disease, and insects, it shall mean at levels low enough that no treatment would be required when applying recognized Integrated Plant Management practices. This specification recognizes that some decisions cannot be totally based on measured findings and that professional judgement is required. In cases of differing opinion, the Landscape Architect shall determine when conditions are judged as reasonable.

EE. Root Flare: Also called "trunk flare." The area at the base of the plant's stem or trunk where the stem or trunk broadens to form roots; the area of transition between the root system and the stem or trunk.

FF. Stem Girdling Roots: Roots that encircle the stems (trunks) of trees below the soil surface.

GG. Subgrade: The surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.

HH. Variety: A naturally occurring subdivision of a species or a group of plants within a species that has unique characteristics.

II. Wound: Any injury that usually breaks the bark of branches, stems, or roots of a tree and serves as a possible entry point for fungi. Old wounds may become sealed with new bark and eventually hidden. Scars are wounds that have been sealed by callus (wound wood).

1.3 COORDINATION

A. Coordination with Turf Areas (Lawns): Plant trees, shrubs, and other plants after finish grades are established and before planting turf areas unless otherwise indicated.
   1. When planting trees, shrubs, and other plants after planting turf areas, protect turf areas, and promptly repair damage caused by planting operations.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Plant Materials: The Contractor shall submit information on plant material prior to delivery to the project site
      a. Submittal shall include quantities, sizes, quality, and sources for plant materials.
      b. The Contractor shall submit digital images of all specified plant material for review, taken at the supplying nursery 30 days in advance of delivery to site. Include color photographs in digital 3- by 5-inch print format of each required species and size of plant material as it will be furnished to Project. Take photographs from an angle depicting true size and condition of the typical plant to be furnished. Include a scale rod or other measuring device in each photograph. For species where more than 20 plants are required, include a minimum of three photographs showing the average plant, the best quality plant, and the worst quality plant to be furnished. Identify each photograph with the full scientific name of the plant, plant size, and name of the growing nursery.

B. Samples for Verification: For each of the following:
   1. All Plant Material: Three Samples of each variety and size delivered to site for review. Maintain approved Samples on-site as a standard for comparison.
   2. Bark Mulch: 1 quart sample in clear plastic bag labeled with supplier and product name.
   3. Landscape Decorative stone: 1 quart sample in clear plastic bag labeled with supplier and product name.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For landscape Installer. Include list of similar projects completed by Installer demonstrating Installer's capabilities and experience. Include project names, addresses, and year completed, and include names and addresses of owners' contact persons.

B. Product Certificates: For each type of manufactured product, from manufacturer, and complying with the following:
   1. Manufacturer's certified analysis of standard products.
   2. Analysis of other materials by a recognized laboratory made according to methods established by the Association of Official Analytical Chemists, where applicable.

C. Pesticides and Herbicides: Product label and manufacturer's application instructions specific to Project.

D. Sample Warranty: For special warranty.

1.7 CLOSEOUT SUBMITTALS

A. Maintenance Data: Recommended procedures to be established by Owner for maintenance of plants during a calendar year. Submit before expiration of required maintenance periods.

1.8 QUALITY ASSURANCE

A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful establishment of plants.
   1. Professional Membership: Installer shall be a member in good standing of either the National Association of Landscape Professionals or American Hort.
   2. Experience: Five years' experience in landscape installation in addition to requirements in Section 01 4000 "Quality Requirements."
   3. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.
   4. Personnel Certifications: Installer's field supervisor shall have certification in one of the following categories from the National Association of Landscape Professionals:
      a. Landscape Industry Certified Technician - Exterior.
      b. Landscape Industry Certified Horticultural Technician.
   5. Pesticide Applicator: State licensed, commercial.

B. Provide quality, size, genus, species, and variety of plants indicated, complying with applicable requirements in ANSI Z60.1.

C. Measurements: Measure according to ANSI Z60.1. Do not prune to obtain required sizes.
   1. Trees and Shrubs: Measure with branches and trunks or canes in their normal position. Take height measurements from or near the top of the root flare for field-grown stock and container-grown stock. Measure main body of tree or shrub for height and spread; do not measure branches or roots tip to tip. Take caliper measurements 6 inches above the root flare for trees up to 4-inch caliper size, and 12 inches above the root flare for larger sizes.
   2. Other Plants: Measure with stems, petioles, and foliage in their normal position.

D. Plant Material Observation: Architect may observe plant material either at place of growth or at site before planting for compliance with requirements for genus, species, variety, cultivar, size, and quality. Architect may also observe trees and shrubs further for size and condition of balls and root systems, pests, disease symptoms, injuries, and latent defects and may reject unsatisfactory or defective material at any time during progress of work. Remove rejected trees or shrubs immediately from Project site.
   1. Notify Architect of sources of planting materials seven days in advance of delivery to site.

E. Proof of Plant Availability:
   1. Contractor shall secure all plant material and provide proof of purchase or procurement within 60 days after receipt of contract Notice to Proceed.
   2. Payment for procurement of plant material, including possible incidentals such as storage and maintenance at nursery after purchase or contract growing plants, is the full responsibility of the Contractor.
   3. Plant material which is not available, or is not possible to contract grow, shall be noted to the Landscape Architect within 30 days of the contract Notice to Proceed. Contractor shall submit a list of all nurseries and plant brokers contacted for availability. Proposed substitutions of size or species due to unavailability mush be requested within this timeframe.
   4. Proof of availability must include a list of all specified plant material, nursery locations, and contract information, and receipts demonstrating that plant material(s) have been purchased and are reserved at nursery for this project.
   5. Plant brokers that may be consulted to source plant material for this project include, but are not limited to, the following:
      a. Listerman & Associates, Inc., 1492 Huntland Ct N, Xenia, OH. Ph: (937) 426-6301.
      b. Landscape Hub, www.landscapehub.com.
   6. Contractor shall be responsible for obtaining all specified plant materials within specified timeframe in order to guarantee plant availability at time of plantings, including coordination of special growing conditions or other arrangements necessary to supply specified materials.
   7. Plant materials not obtained or secured within the specified Proof of Availability timeframe will be accepted only at the discretion of the Landscape Architect.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of compliance with state and Federal laws if applicable.

B. Bulk Materials:
   1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
   2. Provide erosion-control measures to prevent erosion or displacement of bulk materials; discharge of soil-bearing water runoff; and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
   3. Accompany each delivery of bulk materials with appropriate certificates.

C. Do not prune trees and shrubs before delivery. Protect bark, branches, and root systems from sun scald, drying, wind burn, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy their natural shape. Provide protective covering of plants during shipping and delivery. Do not drop plants during delivery and handling.

D. Handle planting stock by root ball.

E. Store bulbs, corms, and tubers in a dry place at 60 to 65 deg F until planting.

F. Wrap trees and shrubs with burlap fabric over trunks, branches, stems, twigs, and foliage to protect from wind and other damage during digging, handling, and transportation.

G. Deliver plants after preparations for planting have been completed, and install immediately. If planting is delayed more than six hours after delivery, set plants and trees in their appropriate aspect (sun, filtered sun, or shade), protect from weather and mechanical damage, and keep roots moist.
   1. Set balled stock on ground and cover ball with soil, peat moss, sawdust, or other acceptable material.
   2. Do not remove container-grown stock from containers before time of planting.
   3. Water root systems of plants stored on-site deeply and thoroughly with a fine-mist spray. Water as often as necessary to maintain root systems in a moist, but not overly wet condition.

1.10 FIELD CONDITIONS

A. Field Measurements: Verify actual grade elevations, service and utility locations, irrigation system components, and dimensions of plantings and construction contiguous with new plantings by field measurements before proceeding with planting work.

B. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with maintenance periods to provide required maintenance from date of Substantial Completion.
   1. Spring Planting: March 15 to June 1.
   2. Summer Planting: July 1 – September 15. Supplemental transplant and irrigation measures will be required.
   3. Fall Planting: September 15 – October 31. Acceptable planting times depend on plant species, type of stock, climate, and weather.
   4. If special conditions exist that warrant a variance in the above planting dates, a written request shall be submitted by the Contractor to the Architect stating the special conditions and the proposed variance. Permission for the variance will be granted at the discretion of the Owner/Architect. Extension of the planting season does not void warranty.
   5. The Contractor shall be responsible for coordinating digging of balled and burlapped stock in order to meet the Project’s completion date.

C. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions and warranty requirements.

1.11 WARRANTY

A. Special Warranty: Installer agrees to repair or replace plantings and accessories that fail in materials, workmanship, or growth within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Death and unsatisfactory growth, except for defects resulting from abuse, lack of adequate maintenance, or neglect by Owner.
      b. Structural failures including plantings falling or blowing over.
      c. Faulty performance of tree stabilization.

d. Deterioration of metals, metal finishes, and other materials beyond normal weathering.

2. Warranty Periods: From date of Substantial Completion.
   a. Trees, Shrubs, Vines, and Ornamental Grasses: 12 months.
   b. Ground Covers, Biennials, Perennials, and Other Plants: 12 months.
   c. Annuals: Three months.
3. Include the following remedial actions as a minimum:
   a. Immediately remove dead plants and replace unless required to plant in the succeeding planting season.
   b. Replace plants that are more than 25 percent dead or in an unhealthy condition at end of warranty period.
   c. A limit of one replacement of each plant is required except for losses or replacements due to failure to comply with requirements.
   d. Provide extended warranty for period equal to original warranty period, for replaced plant material.

PART 2 - PRODUCTS

2.1 PLANT MATERIAL

A. General: Furnish nursery-grown plants true to genus, species, variety, cultivar, stem form, shearing, and other features indicated in Plant List, Plant Schedule, or Plant Legend indicated on Drawings and complying with ANSI Z60.1; and with healthy root systems developed by transplanting or root pruning. Provide well-shaped, fully branched, healthy, vigorous stock, densely foliated when in leaf and free of disease, pests, eggs, larvae, and defects such as knots, sun scald, injuries, abrasions, and disfigurement.
   1. Trees with damaged, crooked, or multiple leaders; tight vertical branches where bark is squeezed between two branches or between branch and trunk ("included bark"); crossing trunks; cut-off limbs more than 3/4 inch in diameter; or with stem girdling roots are unacceptable.
   2. Collected Stock: Do not use plants harvested from the wild, from native stands, from an established landscape planting, or not grown in a nursery unless otherwise indicated.

B. Provide plants of sizes, grades, and ball or container sizes complying with ANSI Z60.1 for types and form of plants required. Plants of a larger size may be used if acceptable to Architect, with a proportionate increase in size of roots or balls.

C. Root-Ball Depth: Furnish trees and shrubs with root balls measured from top of root ball, which begins at root flare according to ANSI Z60.1. Root flare shall be visible before planting.

D. Labeling: Label each plant of each variety, size, and caliper with a securely attached, waterproof tag bearing legible designation of common name and full scientific name, including genus and species. Include nomenclature for hybrid, variety, or cultivar, if applicable for the plant.

E. If formal arrangements or consecutive order of plants is indicated on Drawings, select stock for uniform height and spread, and number the labels to assure symmetry in planting.

F. Trees: Furnish trees with an exceptionally symmetrical and uniform appearance, dominant main leader, tightly compact branching pattern, and rigorous growth as to be unquestionably and outstandingly superior to standard nursery stock.

G. Annuals: Provide healthy, disease-free plants of species and variety shown or listed, with well-established root systems reaching to sides of the container to maintain a firm ball, but not with excessive root growth encircling the container. Provide only plants that are acclimated to outdoor conditions before delivery and that are in bud but not yet in bloom.

2.2 MULCHES

A. Organic Mulch: Free from deleterious materials and suitable as a top dressing of trees and shrubs, consisting of one of the following:
   1. Type: Shredded hardwood.
   2. Size Range: 3 inches maximum, 1/2 inch minimum.
   3. Color: Natural.

2.3 PESTICIDES

A. General: Pesticide registered and approved by the EPA, acceptable to authorities having jurisdiction, and of type recommended by manufacturer for each specific problem and as required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction.

B. Pre-Emergent Herbicide (Selective and Nonselective): Effective for controlling the germination or growth of weeds within planted areas at the soil level directly below the mulch layer.

C. Post-Emergent Herbicide (Selective and Nonselective): Effective for controlling weed growth that has already germinated.

2.4 TREE-STABILIZATION MATERIALS

A. Trunk-Stabilization Materials:
   1. Upright and Guy Stakes: Rough-sawn, sound, new hardwood, free of knots, holes, cross grain, and other defects, 2-by-2-inch nominal by length indicated, pointed at one end.
   2. Flexible Ties: Wide rubber or elastic bands or straps of length required to reach stakes or compression springs.
   3. Guys and Tie Wires: ASTM A641/A641M, Class 1, galvanized-steel wire, two-strand, twisted, 0.106 inch in diameter.
   4. Guy Cables: Five-strand, 3/16-inch-diameter, galvanized-steel cable, with zinc-coated compression springs, a minimum of 3 inches long, with two 3/8-inch galvanized eyebolts.
   5. Flags: Standard surveyor’s plastic flagging tape, white, 6 inches long.

2.5 TREE-WATERING DEVICES

A. Slow-Release Watering Device: Standard product manufactured for drip irrigation of plants and emptying its water contents over an extended time period; manufactured from UV-light-stabilized nylon-reinforced polyethylene sheet, PVC, or HDPE plastic.

1. Products: Subject to compliance with requirements, provide one of the following:
   a. BIO-PLEX; 25 Gallon Tree Ring (Regular).
   b. Engineered Watering Solutions; PQ Partners, LLC; 25 Gallon Ooze Tube.
   c. Spectrum Products, Inc.; 20 Gallon Treegator (original).
2. Color: As selected by Architect from manufacturer's full range.

B. Burlap: Non-synthetic, biodegradable.

C. Mycorrhizal Fungi: Dry, granular inoculant containing at least 5300 spores per lb of vesicular-arbuscular mycorrhizal fungi and 95 million spores per lb of ectomycorrhizal fungi, 33 percent hydrogel, and a maximum of 5.5 percent inert material.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas to receive plants, with Installer present, for compliance with requirements and conditions affecting installation and performance of the Work.
1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
2. Verify that plants and vehicles loaded with plants can travel to planting locations with adequate overhead clearance.
3. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
4. Uniformly moisten excessively dry soil that is not workable or which is dusty.

B. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Architect and replace with new planting soil.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities and turf areas and existing plants from damage caused by planting operations.

B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

C. Lay out individual tree and shrub locations and areas for multiple plantings. Stake locations, outline areas, adjust locations when requested, and obtain Architect's acceptance of layout before excavating or planting. Make minor adjustments as required.

D. Lay out plants at locations directed by Architect. Stake locations of individual trees and shrubs and outline areas for multiple plantings.

3.3 PLANTING AREA ESTABLISHMENT

A. General: Prepare planting area for soil placement and mix planting soil according to Section 32 9115 "Soil Preparation (Performance Specification)."

B. Placing Planting Soil: Place and mix planting soil in-place over exposed subgrade.

C. Before planting, obtain Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

D. Application of Mycorrhizal Fungi: At time directed by Architect, broadcast dry product uniformly over prepared soil at application rate according to manufacturer's written recommendations.

3.4 EXCAVATION FOR TREES AND SHRUBS

A. Planting Pits and Trenches: Excavate circular planting pits.
1. Excavate planting pits with sides sloping inward at a 45-degree angle. Excavations with vertical sides are unacceptable. Trim perimeter of bottom leaving center area of bottom raised slightly to support root ball and assist in drainage away from center. Do not further disturb base. Ensure that root ball will sit on undisturbed base soil to prevent settling. Scarify sides of planting pit smeared or smoothed during excavation.
2. Excavate approximately three times as wide as ball diameter for balled and burlapped stock.
3. Excavate at least 12 inches wider than root spread and deep enough to accommodate vertical roots for bare-root stock.
4. Do not excavate deeper than depth of the root ball, measured from the root flare to the bottom of the root ball.
5. If area under the plant was initially dug too deep, add soil to raise it to the correct level and thoroughly tamp the added soil to prevent settling.
6. Maintain angles of repose of adjacent materials to ensure stability. Do not excavate subgrades of adjacent paving, structures, hardscapes, or other new or existing improvements.
7. Maintain supervision of excavations during working hours.
8. Keep excavations covered or otherwise protected when unattended by Installer's personnel.

B. Backfill Soil: Subsoil and topsoil removed from excavations may be not used as backfill soil unless otherwise indicated.

C. Obstructions: Notify Architect if unexpected rock or obstructions detrimental to trees or shrubs are encountered in excavations.

1. Hardpan Layer: Drill 6-inch-diameter holes, 24 inches apart, into free-draining strata or to a depth of 10 feet, whichever is less, and backfill with free-draining material.

D. Drainage: Notify Architect if subsoil conditions evidence unexpected water seepage or retention in tree or shrub planting pits.

E. Fill excavations with water and allow to percolate away before positioning trees and shrubs.

3.5 TREE, SHRUB, AND VINE PLANTING

A. Inspection: At time of planting, verify that root flare is visible at top of root ball according to ANSI Z60.1. If root flare is not visible, remove soil in a level manner from the root ball to where the top-most root emerges from the trunk. After soil removal to expose the root flare, verify that root ball still meets size requirements.

B. Roots: Remove stem girdling roots and kinked roots. Remove injured roots by cutting cleanly; do not break.

C. Balled and Burlapped Stock: Set each plant plumb and in center of planting pit or trench with root flare 1 inch above adjacent finish grades.
1. Backfill: Planting soil. For trees, use topsoil according to Section 32 9115 "Soil Preparation (Performance Specification)
2. After placing some backfill around root ball to stabilize plant, carefully cut and remove burlap, rope, and wire baskets from tops of root balls and from sides, but do not remove from under root balls. Remove pallets, if any, before setting. Do not use planting stock if root ball is cracked or broken before or during planting operation.
3. Backfill around root ball in layers, tamping to settle soil and eliminate voids and air pockets. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.
4. Continue backfilling process. Water again after placing and tamping final layer of soil.

D. Container-Grown Stock: Set each plant plumb and in center of planting pit or trench with root flare 1 inch above adjacent finish grades.
1. Backfill: Planting soil. For trees, use topsoil according to Section 32 9115 "Soil Preparation (Performance Specification).
2. Carefully remove root ball from container without damaging root ball or plant.
3. Backfill around root ball in layers, tamping to settle soil and eliminate voids and air pockets. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.
4. Continue backfilling process. Water again after placing and tamping final layer of soil.

E. Slopes: When planting on slopes, set the plant so the root flare on the uphill side is flush with the surrounding soil on the slope; the edge of the root ball on the downhill side will be above the surrounding soil. Apply enough soil to cover the downhill side of the root ball.

3.6 TREE, SHRUB, AND VINE PRUNING

A. Remove only dead, dying, or broken branches. Do not prune for shape.

B. Prune, thin, and shape trees, shrubs, and vines only as directed by Architect.

C. Prune, thin, and shape trees, shrubs, and vines according to standard professional horticultural and arboricultural practices. Unless otherwise indicated by Architect, do not cut tree leaders; remove only injured, dying, or dead branches from trees and shrubs; and prune to retain natural character.

D. Do not apply pruning paint to wounds.

3.7 TREE STABILIZATION

A. Trunk Stabilization by Upright Staking and Tying: Install trunk stabilization as follows unless otherwise indicated:
   1. Upright Staking and Tying:
      a. Stake trees of 2- through 5-inch caliper. Stake trees of less than 2-inch caliper only as required to prevent wind tip out. Use a minimum of two stakes of length required to penetrate at least 18 inches below bottom of backfilled excavation and to extend at least 72 inches above grade. Set vertical stakes and space to avoid penetrating root balls or root masses.
      b. Stake trees with two stakes for trees up to 12 feet high and 2-1/2 inches or less in caliper; three stakes for trees less than 14 feet high and up to 4 inches in caliper. Space stakes equally around trees.
   2. Support trees with two strands of tie wire, connected to the brass grommets of tree-tie webbing at contact points with tree trunk. Allow enough slack to avoid rigid restraint of tree.

B. Trunk Stabilization by Staking and Guying: Install trunk stabilization as follows unless otherwise indicated on Drawings. Stake and guy trees more than 14 feet in height and more than 3 inches in caliper unless otherwise indicated.
   1. Site-Fabricated, Staking-and-Guying Method: Install no fewer than three guys spaced equally around tree.
      a. Securely attach guys to stakes 30 inches long, driven to grade. Adjust spacing to avoid penetrating root balls or root masses. Provide compression spring for each guy wire and tighten securely.
      b. Support trees with guy cable, connected to the brass grommets of tree-tie webbing at contact points with tree trunk and reaching to compression spring. Allow enough slack to avoid rigid restraint of tree.
      c. Attach flags to each guy wire, 30 inches above finish grade.

C. Root-Ball Stabilization: Install at- or below-grade stabilization system to secure each new planting by the root ball unless otherwise indicated.
   1. Proprietary Root-Ball Stabilization Device: Install root-ball stabilization system sized and positioned as recommended by manufacturer unless otherwise indicated and according to manufacturer's written instructions.

3.8 GROUND COVER AND PLANT PLANTING

A. Set out and space ground cover and plants other than trees, shrubs, and vines as indicated on Drawings in even rows with triangular spacing.

B. Use planting soil for backfill according to Section 32 9115 "Soil Preparation (Performance Specification).

C. Dig holes large enough to allow spreading of roots.

D. For rooted cutting plants supplied in flats, plant each in a manner that minimally disturbs the root system but to a depth not less than two nodes.

E. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water.

F. Water thoroughly after planting, taking care not to cover plant crowns with wet soil.

G. Protect plants from hot sun and wind; remove protection if plants show evidence of recovery from transplanting shock.

3.9 PLANTING AREA MULCHING

A. Mulch backfilled surfaces of planting areas and other areas indicated.
   1. Trees in Turf Areas: Apply organic mulch ring of 3-inch average thickness, with 36-inchradius around trunks or stems. Do not place mulch within 3 inches of trunks or stems.
   2. Organic Mulch in Planting Areas: Apply 3-inch average thickness of organic mulch over whole surface of planting area, and finish level with adjacent finish grades. Do not place mulch within 3 inches of trunks or stems.
   3. Organic Mulch in Stormwater Planting Areas: Apply 2-inch average thickness of organic mulch over whole surface of planting area, and finish level with adjacent finish grades. Do not place mulch within 3 inches of trunks or stems.
   4. Organic Mulch in Annual Planting Areas: Apply 1 to 2-inch average thickness of organic mulch over whole surface of planting area. Do not place mulch directly around crown of plants.

3.10 INSTALLATION OF SLOW-RELEASE WATERING DEVICE

A. Provide one device for each tree.

B. Place device on top of the mulch at base of tree stem and fill with water according to manufacturer's written instructions.

3.11 PLANT MAINTENANCE

A. Maintain plantings by pruning, cultivating, watering, weeding, fertilizing, mulching, restoring planting saucers, adjusting and repairing tree-stabilization devices, resetting to proper grades or vertical position, and performing other operations as required to establish healthy, viable plantings.

B. Fill in, as necessary, soil subsidence that may occur because of settling or other processes. Replace mulch materials damaged or lost in areas of subsidence.

C. Apply treatments as required to keep plant materials, planted areas, and soils free of pests and pathogens or disease. Use integrated pest management practices when possible to minimize use of pesticides and reduce hazards. Treatments include physical controls such as hosing off foliage, mechanical controls such as traps, and biological control agents.

3.12 PESTICIDE APPLICATION

A. Apply pesticides and other chemical products and biological control agents according to authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner before each application is performed.

B. Pre-Emergent Herbicides (Selective and Nonselective): Apply to tree, shrub, and ground-cover areas according to manufacturer's written recommendations. Do not apply to seeded areas.

C. Post-Emergent Herbicides (Selective and Nonselective): Apply only as necessary to treat already-germinated weeds and according to manufacturer's written recommendations.

3.13 REPAIR AND REPLACEMENT

A. General: Repair or replace existing or new trees and other plants that are damaged by construction operations, in a manner approved by Architect.
1. Submit details of proposed pruning and repairs.
2. Perform repairs of damaged trunks, branches, and roots within 24 hours, if approved.
3. Replace trees and other plants that cannot be repaired and restored to full-growth status, as determined by Architect.

B. Remove and replace trees that are more than 25 percent dead or in an unhealthy condition before the end of the corrections period or are damaged during construction operations that Architect determines are incapable of restoring to normal growth pattern.
1. Provide new trees of same size as those being replaced for each tree.
2. Species of Replacement Trees: Same species being replaced.

3.14 CLEANING AND PROTECTION

A. During planting, keep adjacent paving and construction clean and work area in an orderly condition. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.

B. Remove surplus soil and waste material including excess subsoil, unsuitable soil, trash, and debris and legally dispose of them off Owner's property.

C. Protect plants from damage due to landscape operations and operations of other contractors and trades. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged plantings.

D. After installation and before Substantial Completion, remove nursery tags, nursery stakes, tie tape, labels, wire, burlap, and other debris from plant material, planting areas, and Project site.

E. At time of Substantial Completion, verify that tree-watering devices are in good working order and leave them in place. Replace improperly functioning devices.

3.15 MAINTENANCE SERVICE

A. Maintenance Service for Trees and Shrubs: Provide maintenance by skilled employees of landscape Installer. Maintain as required in "Plant Maintenance" Article. Begin maintenance immediately after plants are installed and continue until plantings are acceptably healthy and well established, but for not less than maintenance period below:
   1. Maintenance Period: 12 months from date of Substantial Completion.

B. Maintenance Service for Ground Cover and Other Plants: Provide maintenance by skilled employees of landscape Installer. Maintain as required in "Plant Maintenance" Article. Begin maintenance immediately after plants are installed and continue until plantings are acceptably healthy and well established, but for not less than maintenance period below:
   1. Maintenance Period: 12 months from date of Substantial Completion.

END OF SECTION 32 9300

CITY OF EVANSVILLE

ARBORICULTURAL SPECIFICATIONS MANUAL

Developed by
Evansville Tree Advisory Board
and
City of Evansville
Department of Urban Forestry

In accordance with the City Ordinance
"Ordinance of the City of Evansville, Indiana Concerning Trees"
2.90.010 through 2.90.150
Effective May 1, 2001

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0.0 Definitions

ANSI – American National Standards Institute. The following are ANSI standards for tree planting, care, and removal.

- ANSI Z60.1 - 2014 – American Standard for Nursery Stock
- ANSI Z133.1 - 2006 – Pruning, Repairing, Maintaining, and Removing Trees, and Cutting Brush – Safety Requirements
- ANSI A300(Part 1) - 2008 – Tree, Shrub, and Other Woody Plant Maintenance – Standard Practices (Pruning)
- ANSI A300 (Part 2) - 2011 – Tree, Shrub, and Other Woody Plant Maintenance – Standard Practices (Soil Modification,Fertilization and Drainage)
- ANSI A300 (Part 3) - 2006 – Tree Shrub, and Other Woody Plant Maintenance – Standard Practices (Support Systems a. Cabling, Bracing, and Guying)
- ANSI A300 (Part 3) - 2005 – Tree Shrub, and Other Woody Plant Maintenance – Standard Practices (Construction Management)
- ANSI A300 (Part 5) - 2012 – Tree Shrub, and Other Woody Plant Maintenance – Standard Practices (Lightning Protection)
- ANSI A300 (Part 6) - 2012 – Tree Shrub, and Other Woody Plant Maintenance – Standard Practices (Planting and Transplanting)
- ANSI A300 (Part 8) - 2013 – Tree Shrub, and Other Woody Plant Maintenance – Standard Practices (Root Management)

Caliper - the diameter measurement of a tree trunk taken six inches above the ground on trees with a diameter of four inches (4") or smaller and twelve inches (12") above the ground on larger planting stock.

Established tree – A tree that has been planted in its current location for longer than a duration of 2 years.

Public tree - A tree located on a street, walkway, sidewalk, park or other property owned by the City of Evansville ("City") or other governmental agency; provided, however, such definition shall exclude both: a tree located on a street, walkway or sidewalk as described in subdivision plat, where such street, walkway or sidewalk has not been yet dedicated, constructed and accepted for repair and maintenance by the City, State of Indiana, or other governmental agency; and a tree located on property owned by the City, State of Indiana or other governmental agency strictly as a utility right-of-way easement.

Shall - Is always mandatory and not merely suggestive.

Should - Denotes an advisory recommendation.

Tree - A perennial plant having a woody supporting main stem or trunk, ordinarily growing to definite heights and usually developing branches at some distance from the ground.

Tree care - the treating, spraying, removal, pruning and any other tree maintenance or cultural work intended for the enhancement or preservation of trees and the removal and prevention of any and all damage to any street trees caused by tree pests, blights, and diseases.

Tree Advisory Board – The Evansville Tree Advisory Board.

Top or Topping - cutting a currently growing or one-year-old stock back to a bud, or cutting an older branch or stump to a stub or lateral branch not sufficiently large enough to assume the terminal role. Other terms that may be used to mean the same as topping are; tipping, heading, cutting back, rounding over, and pollarding.

1.0 Authority. Pursuant to authority granted under "Ordinance of the City of Evansville, Indiana Concerning Trees" Creating a Tree Advisory Board, and approved by the Common Council of the City of Evansville, Indiana, on the 1st day of May, 2001, having had the advice and assistance of the Tree Advisory Board, established in said Ordinance, hereby promulgates the following as the Arboricultural Specifications and Standards of Practice for the City of Evansville, Indiana, hereinafter called the Arboricultural Specifications Manual.

2.0 Policy

2.1 All work on public trees shall comply with the "Ordinance of the City of Evansville, Indiana Concerning Trees" of the City of Evansville, Indiana, and this Arboricultural Specifications Manual.

2.2 The Arboricultural Specifications Manual shall be adhered to at all times, but it may be amended by the Tree Advisory Board at any time that experience, new research, or laws indicate that improved methods or circumstances make it advisable, and only then with the advice and assistance of the Tree Advisory Board, all as provided for in the above said Ordinance.

2.3 Tree Advisory Board shall take into consideration, at all times, input from the public, property owners, other municipal departments, public utilities and with appropriate not-for-profit organizations during all policy making and decision making processes.

2.4 The Evansville City Arborist, as the designated agent of the Tree Advisory Board, shall have the jurisdiction, authority, control, supervision, and direction over all trees planted or growing in or upon public property, and the planting, removal, care, maintenance, and protection thereof.

3.0 General Specifications

3.1 The specifications contained in this document are to serve as a standard for all work performed on or with all public trees, development projects that include tree plantings as required by the Evansville Area Planning Commission, or public projects involving privately owned trees paid for with public funds. These standards will apply whether the work is performed "in-house", contractually by private businesses, or by private individuals.

3.2 All terms used in this manual, which are defined in the "Ordinance of the City of Evansville, Indiana Concerning Trees", shall hold the same definition in this manual.

3.3 A permit shall be obtained from the Tree Advisory Board, through the City Arborist's office, before any person, either for himself or another, prunes, removes, or destroys any public tree.

3.4 All requests for bid specifications for public landscape projects should be reviewed by the City Arborist and/or other qualified members of the Tree Advisory Board before they are sent out to potential bidders. This will allow trained arborists and horticulturists a chance to see whether items in the bid need to be altered for long-term plant survival. Necessary? Restrictive?

3.5 A site meeting shall be conducted between the contractor, the City Arborist, and a representative from the public department responsible for the project before any landscape work is to be performed. During such meeting the City Arborist shall inform the contractor how all work shall be performed including, but not limited to, proper planting techniques, proper irrigation techniques, proper mulching techniques, and proper maintenance techniques. The City Arborist shall also make clear to the contractor their responsibilities outlined in the contract for the landscaping, and the contractor's guarantee/warranty period for all vegetation planted and/or maintained by them.

3.6 The City Arborist shall monitor, and regulate work done by the landscape contractor(s) throughout the contract period. All non-compliance issues of the contract by the contractor shall be reported to the public department responsible for the project, and to the Tree Advisory Board. Follow up work and routine maintenance work needed after the contract has been fulfilled shall be determined by the City Arborist, and reported to the appropriate department.

3.7 It shall be unlawful for any person to engage in the business of cutting, trimming, pruning, or removing any tree within the City of Evansville, for hire, without first procuring a license as required by the "Ordinance of the City of Evansville, Indiana Concerning Trees" codes 2.90.010 through 2.90.150.

3.8 Authorized work on or with public trees neither expresses nor implies a right to violate any local, state, or federal law while in the process of performing such work.

3.9 All such work shall be conducted in a manner as to cause the least possible interference with, or annoyance, to others.

3.10 All personnel utilized for work on or with trees shall be trained to perform the work properly and safely in accordance with these Arboricultural Specifications, and ANSI standards.

3.11 Only a licensed tree pruner shall perform work on trees, except during emergencies. An emergency shall be an instance when a public tree(s) has been severely damaged by storms or other causes or is obstructing utility wires, etc.

The Board of Public Works or public utilities may without permit resort to topping or severe cutting back of limbs of public trees, but should report all such actions to the Tree Advisory Board.

3.12 A licensed tree pruner is recommended, but shall not be required, for trees being pruned or removed as part of a new development on public property, so long as the project has been approved by Area Planning Commission. Tree preservation and any tree pruning work that is required, shall be done in accordance with the standards set forth in this manual.

3.13 Any use of tools and equipment for pruning, trimming, repairing, maintaining and removing trees shall be in accordance with ANSI standards.

3.14 Approved street and sidewalk warning devices shall be in position as required at all times while work on public trees is being performed. Adequate barricades and other warning devices shall be placed and flagmen shall be stationed as necessary for the safety of pedestrians and vehicles. All street restrictions or closures of public rights-of-way shall be approved by the Evansville Safety Board.

3.15 Whenever overhead utility lines, gas lines, water lines, sewer lines, or other improvements upon a public area are jeopardized by any authorized tree pruning or removal activities, the proper authorities of the utilities involved shall be consulted prior to performing any work activity and all requested precautions by any such authority shall be followed. Those performing work shall be responsible for having utilities located prior to planting, stump grinding, or any other type of digging.

3.16 Companies that violate or ignore bid agreements during the installation or maintenance of landscape plantings, or refuse to honor warranties, shall be

deemed a non-responsible bidder, and shall be denied an award on a bid for landscaping for a period of no less than three years from the date of the violation.

3.17 All contracted landscape plantings shall have a minimum of two, or preferred three year warranty, and landscape contracts worded accordingly. Whoever plants landscaping on site shall be responsible for their health. This will promote more conscientious planting practices, and avoid the need to determine blame for tree failure.

3.18 All companies bidding on planting/maintenance must develop a complete post-planting maintenance program. This will include, but not be limited to: irrigation, fertilization, pruning/training, and pest control. Pest control refers to controlling insects, diseases, weeds, and other harmful agents.

4.0 Planting

4.1 Acceptable Tree Species. The Appendices contain lists of tree species or their varieties and cultivars acceptable and approved for planting on public property. No species other than those included in this list may be planted on public property without written permission of the Tree Advisory Board.

4.2 Size. Unless otherwise specified by the Tree Advisory Board, all species and their cultivars or varieties shall conform to ANSI standards.

- Medium and Large trees (listed in Tables II and III) – 2½" caliper;
- Small trees (listed in Table I) – 1½" caliper;
- Medium and large evergreen trees and multi-stem trees – 12' height
- Small evergreen trees and multi-trunk trees – 10' height
- Shrubs – 5-gallon containers or equivalent balled and burlapped.

4.3 Grade. Unless otherwise allowed for specific reasons, all trees shall have comparatively straight trunks (except for those that are selected to be multi-trunk), well developed leaders and tops, and the roots shall not only be characteristic of the species, cultivar or variety, but also shall exhibit evidence of proper nursery pruning practices. They shall have acceptable balance between top and root. At the time of planting, all trees must be free of mechanical injuries, and other objectionable features that tend to affect the future form and health of the plant.

4.4 Location and Spacing.

4.4.1 Pavement and tree spacing for street trees and trees in public areas. The distance that trees may be planted from curbs, curb lines and sidewalks may be no closer than the following: Small trees, two (2) feet; Medium and Large trees, three (3) feet.

4.4.2 Pavement and tree spacing for trees in parking lots. The distance that trees may be planted from curbs, curb lines and sidewalks may be no closer than the following: Small trees, three (3) feet; Medium trees, four (4) feet; and Large trees, five (5) feet.

4.4.3 Driveways, Alleys and Intersections. Trees shall be planted at least fifteen (15) feet from driveways and alleys. No street trees shall be planted at an intersection corner within 25 feet of the curved intersection.

4.4.4 Utilities. No tree, other than those listed as small trees in the appendices of this manual, may be planted within twenty (25) feet of any overhead utility wire. Minimal planting distances from overhead utility wires should be based upon mature tree height and spread (See Figure 1). Species shall be selected for planting under utility wires so that the maximum height of the trees at maturity will not be the same or more as the height of the lowest electrical transmission wire. Trees that have canopy heights exceeding the height of transmission wires shall be spaced from utility poles at least a minimum of one-half (1/2) of their total mature canopy spread plus ten (10) feet.

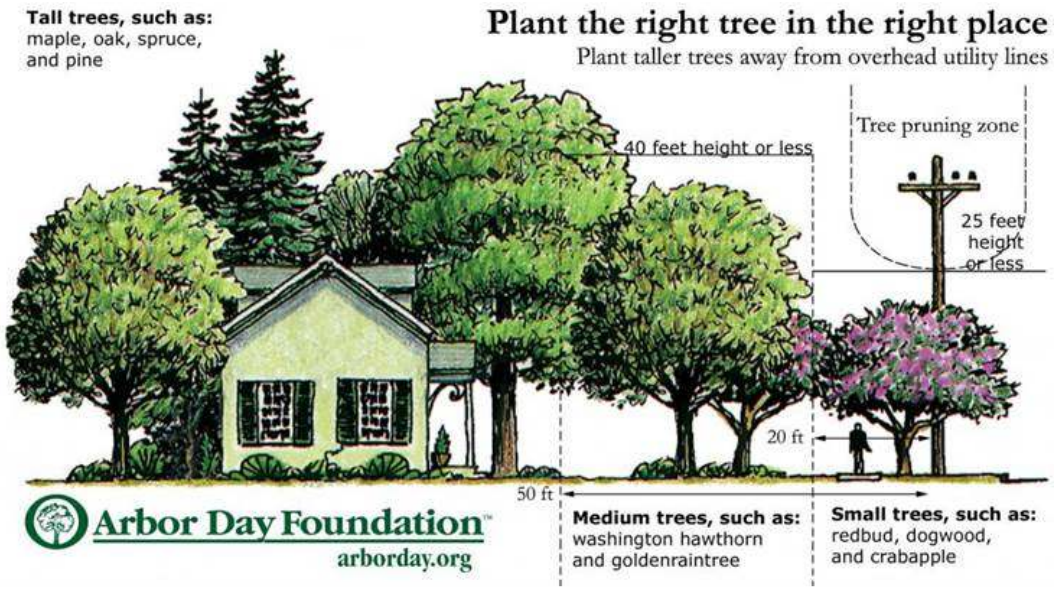


Figure 1: Proper placement of trees near power lines.

4.4.5 Other Utilities. Shade trees shall not be planted closer than fifteen (15) feet from all lampposts and should allow for proper lighting. Trees planted near light posts shall be monitored, and pruned as needed, to prevent obstruction of light.

4.4.6 Spacing Between Trees. As a general recommendation, trees and shrubs should be spaced so that they are separated by a minimum of one-third (1/3) of their total mature canopy spread.

4.4.7 Miscellaneous. All planting on unpaved streets without curbs or sidewalks must have the approval of the Tree Advisory Board, who shall determine the location of the tree, so that it will not be injured or destroyed when the street is curbed and paved, or when sidewalks are constructed. No street tree shall be planted within ten (10) feet of any fire hydrant or stop sign. Where overhead lines or building setback presents a special problem, the selection of planting site and species shall be determined by the Tree Advisory Board.

4.5 Tree Transport and Storage. Trees shall be transported fully covered by tarp(s) to prevent them from drying out and getting wind burn, or if no way to cover trees, then the vehicle shall be driven no faster than twenty five miles per hour (25 mph). During transport storage roots and root balls shall be routinely inspected and watered as necessary to prevent from drying out. If proper moisture content of roots and root balls cannot be maintained on site, they shall be healed in properly until they are planted.

4.6 Tree Inspection. Trees shall be inspected for proper root to shoot ratio before being accepted according to the latest edition of the ANSI Z60.1 standards, and shall be replaced with acceptable root stock when rejected. Trees shall also be rejected if they have defects or have poor structure for that species. Balled and burlapped trees shall have burlap removed from top of root ball to inspect root collar depth to determine if the tree is acceptable. If vendor selling trees claims that doing so will void warranty, then a different vendor shall be selected for purchase of trees.

4.7 Tree Planting Method.

4.7.1 Planting Depth and Width. The hole for tree planting shall be dug to the depth of the measurement of the tree being planted from the root flare to the bottom of the root ball. Care shall be taken to not confuse the tree graft, if one is present, with the root flare (see figure 2). The root flare of trees that are containerized or balled and burlapped shall be exposed to determine this measurement before digging. Holes dug for the planting of trees shall be at least three times wider than the diameter of the roots or root ball. The edges of planting pits shall be scarified to prevent glazing of soil after digging.

4.7.2 Removal of Foreign Objects. Brick, rock, foreign roots, and other debris that is not considered soil shall be removed from planting pits. Burlap, ropes, and wires shall be either entirely removed from balled and burlapped trees, or cut back at least ½ down the sides of the root ball before backfill is used. Soil may be allowed to fall off or removed from roots, so long as roots are not damaged and kept from drying. Containers shall be completely removed from trees before planting containerized trees, and containerized tree roots shall be pruned and/or spread apart as necessary to improve future root growth and prevent root girdling. Roots of the trees shall be kept damp during these processes to prevent drying out.

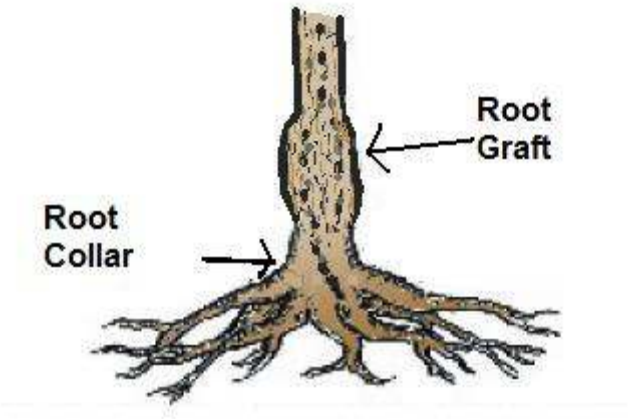


Figure 2. Root Graft Vs. Root Collar (Flare)

4.7.3 Tree Placement. The tree shall be centered in the planting hole with the tree completely upright and with the root collar between zero to one inches above ground level, and absolutely no lower than ground level. If the root collar is not at ground level, soil shall be added or removed from the bottom of the pit until the proper height is achieved. If soil is placed into pit to adjust root collar depth it shall be tamped down before backfilling.

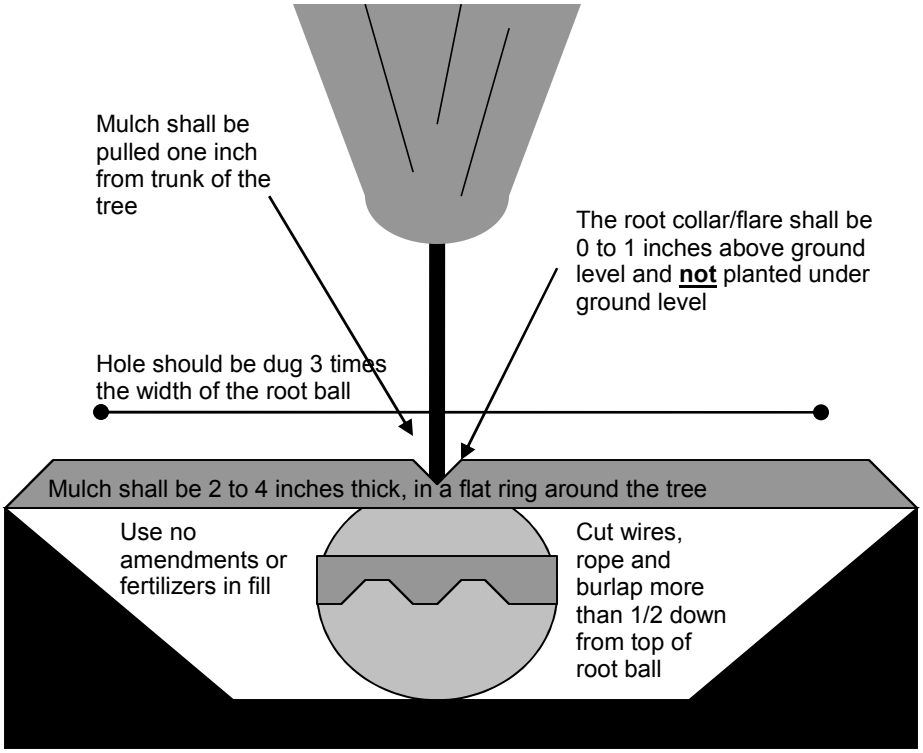


Figure 4: Proper tree planting.

4.7.4 Amendments. Only the original soil removed shall be used as backfill, and no soil amendments shall be used, unless the entire site is being amended with the same amendment material and at the same percentage of amendment uniformly.

4.7.5 Backfilling and Watering. As soil is placed into hole, clumps of soil shall be broken up to a maximum size of ½ inch size clumps. Water shall be used during backfilling intermittently to improve soil settling. When the planting is completed, the entire root area shall be thoroughly saturated with water. Care shall be taken to prevent the tree from becoming off center during this process.

4.7.6 Staking. Tree trunks shall be guyed, or supported in an upright position, according to accepted arboricultural practices. The guys or supports shall be installed so that they will neither girdle or cause serious injury to the tree nor endanger public safety. Tree stakes, guy wires, and supports for trees shall be removed the spring following the first full growing season.

4.7.7 Trunk Protection to Prevent Sun Scald. Tree trunk protectors, if used, shall consist of wire mesh screen, which shall be placed around trunk loosely in a way that it can be slid up and down the trunk, unimpeded, and shall not be tied to the trunk, but shall be attached to itself in the manner of a loose tube around the tree (see figure 3). Trunk protection shall be removed the spring after the first full growing season.

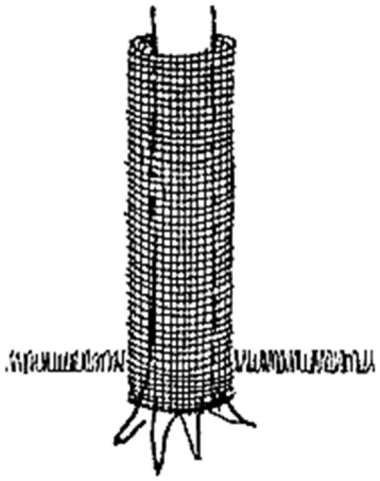


Figure 3: Trunk Protection.

4.7.8 Tree Grates and Mulch. Organic mulch shall be immediately placed around trees to the edge of the planting hole that was dug, or to the edge of pavement, whichever comes first. The mulch layer shall be applied at a minimum height of two inches, to a maximum height of four inches. Excessive mulch will not be piled against the tree trunk, and all mulch shall be pulled away from the trunk one inch (1”). Acceptable mulch materials include wood chips, shredded bark, bark nuggets, and similar products. No other mulch material may be

substituted without authorization from the Tree Advisory Board. Grates shall not be used around trees.

5.0 Newly Planted Tree Care.

5.1 General. Newly planted trees (trees planted within 3 years), shrubs and other plants shall require special maintenance for two or three growing seasons following planting. All maintenance practices shall follow approved arboricultural standards.

5.2 Watering. Trees shall be watered when one inch of rain water has not fallen within 7 days, or within 7 days of last watering. Proper watering of trees shall consist of the equivalent of one inch of rain (1/2 gallon per square foot of soil) for the root zone per tree per week. Gator Bags can be used, but must be completely filled once per week for proper watering. Programmable or manual irrigation systems may also be used, but shall be programmed or run only once per week after lawn is established. To prevent overwatering of trees, irrigation that is required to run more than once per week for other vegetation shall be set separately from the irrigation that is installed for watering trees.

5.3 Fertilization. Fertilization of individual trees should not be performed in the first growing season after planting. The bed the tree is in may be fertilized prior to planting if it is necessary as determined by soil testing done through a certified soil lab. Fertilization of public trees shall follow ANSI standards or other accepted arboricultural standards. Only broadcast fertilization of wet or dry fertilizers over root system of tree shall be accepted unless otherwise approved by the Tree Advisory Board.

5.4 Insect and Disease Control. Tree species and cultivars that are resistant to insects and diseases should be selected for plantings. Frequent and thorough inspections shall be made to determine when measures for the control of insects and diseases shall be taken. Before chemicals are used to resolve pest and disease issues, the specific tree species and pest shall be properly identified to ensure proper control method and alternative controls should be considered in the place of chemicals. If fungicides, herbicides or pesticides are required to be applied for controlling disease, pests or weeds, they must be applied by an Indiana Licensed Pesticide Applicator, or by an employee working under direct supervision of a licensed applicator who is within direct contact of the supervisor, as per the regulations set forth by the Office of the Indiana State Chemist.

5.5 Pruning. Pruning newly planted trees shall consist of removing dead, broken, or injured branches, water sprouts, and the suppression of uneven growth that affects form. Pruning shall be practiced as often thereafter as needed to assure strong branch unions. Newly planted trees need not have lower branches removed until they are well established, or unless the branches visually or

physically obstruct paved right-of-ways and signs. Pruning of public trees shall follow ANSI standards or other accepted arboricultural standards.

6.0 Established Tree Care.

6.1 Pruning and Removal. No topping of trees shall be permitted. All large, established trees shall be pruned to a height of at least eight (8) feet above sidewalks and twelve (12) feet above streets. All cuts shall be made with a saw or pruner and only at the nodes or crotches. No stubs shall be left. No spurs or climbing irons shall be used to climb trees, except when trees are to be removed or during an emergency rescue. All dead branches shall be removed; branches that cross or rub should be pruned to eliminate future problems. The stumps of all removed trees shall be cut to at least six (6) inches below the ground level where feasible. Stump grindings shall be hauled off, and the soil cavity shall be filled with top soil, tamped, leveled and re-seeded. Pruning of public trees shall follow ANSI standards or other accepted arboricultural standards.

6.2 Insect and Disease Control. Before chemicals are used to resolve pest and disease issues, the specific tree species and pest shall be properly identified to ensure proper control method and alternative controls should be considered in the place of chemicals. If fungicides, herbicides or pesticides are required to be applied for controlling disease, pests or weeds, they must be applied by an Indiana Licensed Pesticide Applicator, or by an employee working under direct supervision of a licensed applicator who is within direct contact of the employer, as per the regulations set forth by the Office of the Indiana State Chemist.

6.3 Fertilization. Fertilization of established trees should not be needed for trees unless a nutrient deficiency has been determined through soil testing by a certified soil laboratory. Fertilization of public trees shall follow ANSI standards or other accepted arboricultural standards. Fertilization, if deemed necessary, shall be done according to soil nutrient deficiencies, and current lawn and landscaping fertilization shall be calculated, before fertilization mixes and a rates are calculated. Only broadcast fertilization of wet or dry fertilizers over root system of tree shall be accepted unless otherwise approved by the Tree Advisory Board.

6.4 Cabling and Bracing. As a general rule, cables should be located above the crotch at a point approximately two-thirds (2/3) of the distance between the crotch and tops of the branch ends. Rust-resistant cables, thimbles, and lags should be used. The ends of a cable should be attached to hooks or eyes of lags or bolts inserted near the ends of the branches; thimbles must be used in the eye splice in each end of the cable. In no instance shall cable be wrapped around a branch. All cabling and bracing practices shall follow ANSI standards or other accepted arboricultural standards. Cabling and bracing shall only be performed by a Certified Arborist.

7.0 Tree Protection.

7.1 Protection or Removal. In the circumstances where construction and utility operations underground will affect the health of a tree, a determination will be made considering the overall value of the tree. The criteria for determining a value for a tree will be based on species, size, condition, location, cost of preserving the tree, and urgency of work to be completed. A decision based on this value will be made concerning the protection or removal of the tree in question. This decision shall be made jointly by the Tree Advisory Board and the City Engineer or appropriate city official.

7.2 Construction Zone. Existing trees in or near areas to be developed (construction sites) shall be guarded with temporary fencing. Placement of the fence is to be at a minimum distance of one and a half feet (1.5') for each inch in trunk diameter measured at breast height (4½ feet). All vehicles, construction equipment, building materials, dirt, or other debris shall be kept outside of the barrier.

7.3 Root Pruning. When large roots are to be cut during trenching or grading, pruning of roots must be done with the proper pruning equipment. Clean, flush, smooth cuts shall be made on tree roots.

7.4 Underground Utilities. All installations of underground utilities upon public property, which may conflict with tree roots, are subject to the review and the approval of the Tree Advisory Board before the project starts. All installations through tree drip-line areas should follow approved tunneling methods.

7.5 Preventing Lawn mower and Weed Eater Damage Around Trees. In an effort to minimize damage to the trunks of trees during lawn care operations one of, or a combination of, the following methods shall be used when performing lawn maintenance around trees with a trunk diameter of less than 12 inches, measured 6 inches above ground level. Other methods must be approved by the Tree Advisory Board.

7.5.1 Education of Mowing Personnel. Those contracted or employed by the city to perform lawn maintenance shall be instructed not to damage tree trunks with mowers, weed eaters, or lawn equipment, and shall be shown alternative ways of removing weeds from around trees, rather than using lawn equipment in close proximity to their trunks. Those persons must be advised that when all other methods fail, weeds must be pulled up or cut by hand. No hoeing or digging shall take place within 12 inches of any tree to prevent root and trunk damage.

7.5.2 Mulch. A ring of mulch may be placed around the trunk of the tree extending at least 12 inches out from the base of the trunk. The mulch layer shall be applied at a minimum height of two inches, to a maximum height of four

inches. Excessive mulch will not be piled against the tree trunk (mulch volcano), and all mulch shall be pulled away from the trunk one inch (1”). Acceptable mulch materials include wood chips, shredded bark, bark nuggets, and similar products. No other mulch material may be substituted without authorization from the Tree Advisory Board. Mulch shall be checked once per year and replaced as needed.

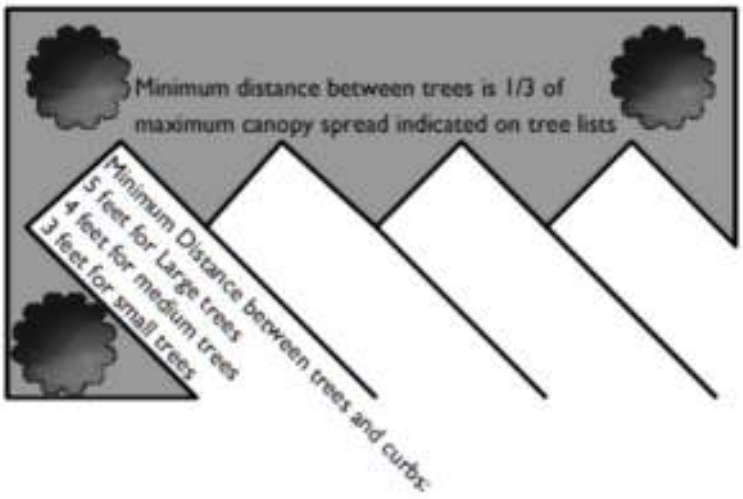
7.5.3 Trunk Protectors. A plastic ring may be placed around the trunk of a tree that has potential to be harmed by mowers or weed eaters, so long as the ring is loose around the trunk, and long enough to extend six to twelve inches from the ground. The ring shall be checked at least once per year to ensure that it is not girdling the tree trunk. Rings shall be removed in the event girdling is taking place, the ring becomes tight around the trunk (touching on all or most sides), or if the trunk caliper reaches 12 inches. Trunk protectors must be removed from trees with care in making sure that the tree trunk is not cut or scraped in doing so, unless the wrap has started to girdle the tree and there is no other way. Tree trunk wrap materials shall not be used around tree trunks.

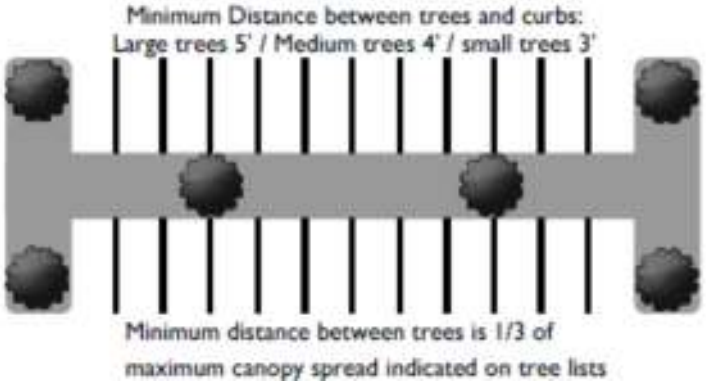
7.5.4 Weed Barrier. Weed barrier material may be used around trees so long as it is checked at least once per year to ensure the barrier is not girdling the tree roots or trunk.

7.5.5 Herbicide. A herbicide containing only the active ingredient of Glyphosate, may be sprayed at least 12 inches from base of trunk to kill any vegetation growing near base of tree. Care shall be taken not to get chemicals on the trunk, nor on sprouts growing on trunk or fresh wounds on trunk.

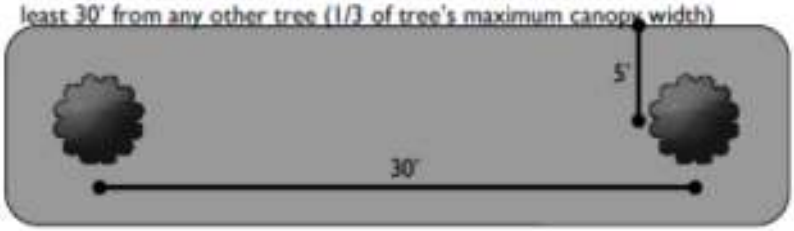
Appendix A

Tree Spacing from Pavement, Curbs and Other Trees in Commercial Landscape Parking Lot Islands





Example: If a tree is selected from the large tree list that has a maximum canopy spread of 90' then a minimum of 5' would be allowed between the tree and the nearest curb, and the tree would need to be spaced at least 30' from any other tree (1/3 of tree's maximum canopy width)



Appendix B

Acceptable Trees for Commercial Landscape Parking Lot islands

Small trees for limited spaces

Species	CommonName	Height	Width	Flowers	Comments
Acer buergeranum	Trident Maple	30	30		
*Amelanchier species**	Serviceberry*	25	15	white	
*Cercis Canadensis**	Redbud*	30	35	pink or white	
*Chionanthus species±**	Fringe Tree±*	15	15	white	
*Cornus florida**	Flowering Dogwood*	30	30	white	Requires partial Shade
Cornus kousa	Kousa Dogwood	30	30	white	
Cotinus coggygria±	Smoketree±	15	15	pink	
*Crataegus spp.**	Hawthorn*	35	35	white	Disease resistant Variety only
*Juniperus species*ǂ*	Juniper species*ǂ	25	10		evergreen
Magnolia x soulangiana	Saucer Magnolia	30	30	pink	
*Malus spp.**	Crabapple*	35	25	variety	Disease resistant Variety only
Salix matsudana	Corkscrew Willow	35	20		
Styrax japonicus	Japanese Snowbell	30	25	white	
*Thuja occidentalis*ǂ*	Arborvitae*ǂ	30	10		evergreen

± Trees selected for areas under power lines that are 20 feet from the ground.
ǂ Evergreen trees – Do not plant where motorists' line of sight will become impaired
*Native trees

Medium trees - for large air space but limited root space – No Dwarf Cultivars

Species	CommonName	Height	Width	Flower
Acer campestre	Hedge Maple	40	40	
*Betula nigra**	River Birch*	50	35	
Carpinus betulus	European Hornbeam	40	30	
*Celtis species**	Sugarberry*	50	40	
*Cladrastis kentukea**	Yellowwood*	50	55	white
Ilex spp.ǂ	Hollyǂ	50	25	
Magnolia virginiana	Sweetbay Magnolia	50	25	white
*Oxydendron arboretum**	Sourwood*	50	35	white
Prunus x yedoensis	Yoshino Cherry	45	45	pink

ǂ Evergreen trees – Do not plant where motorists' line of sight will become impaired
*Native trees

Large trees - for open lawn areas and wide boulevards – No Dwarf Cultivars

Species	CommonName	Height	Width	Flower	Comments
*Acer nigrum**	Black Maple*	60	30		
*Acer rubrum**	Red Maple*	75	70		
*Acer saccarum**	Sugar Maple*	80	70		
Acer x freemanii	Freeman Maple	60	50		
*Alnus species**	Alder*	80	40		
*Catalpa speciosa**	Catalpa*	60	50	white	
*Chamaecyparis species*ǂ	False cypressǂ	75	20		evergreen
Eucommia ulmoides	Hardy Rubber Tree	60	60		
*Fagus grandifolia**	Beech*	75	80		Requires partial Shade
*Gleditsia triacanthose**	Honey Locust*	80	70		Thornless variety only
*Gymnocladus dioicus**	Kentucky Coffeetree*	75	65		Male trees only
*Liquidambar styraciflua**	Sweetgum*	75	65		'Happy Daze' or 'Rotundiloba'
*Liriodendron tulipifera**	Tulip Poplar*	90	50	yellow	
*Magnolia acuminate**	Cucumbertree*	70	55	yellow	
*Nyssa sylvatica**	Black Tupelo*	70	45		
*Pinus strobus**ǂ	White Pine*ǂ	80	35		evergreen
*Pinus taeda*ǂ	Loblolly Pineǂ	80	30		evergreen
*Platanus occidentalis**	Sycamore*	90	70		
Platanus x acerfolium	London Planetree	80	65		
Quercus acutissima	Sawtooth Oak	50	55		
*Quercus alba**	White Oak*	100	80		
*Quercus bicolor**	Swamp White Oak*	80	80		
*Quercus coccinea**	Scarlet Oak*	75	60		
*Quercus falcate**	Southern Red Oak*	80	70		
*Quercus lyrata**	Overcup Oak*	50	50		
*Quercus michauxii**	SwampChestnut Oak*	70	50		
Quercus muehlenbergii	Chinkapin Oak	50	60		
Quercus phellos	Willow Oak	75	60		
Quercus robar	English Oak	80	70		
*Quercus rubra**	Northern Red Oak*	80	65		
*Quercus shumardii**	Shumard Oak*	80	65		
*Sassafras albidum**	Sassafras*	60	40	yellow	
*Taxodium distichum**	Bald Cypress*	80	45		
*Tilia americana**	American Linden*	70	50	yellow	
Tilia cordata	Little Leaf Linden	80	55	yellow	
Tilia tomentosa	Silver Linden	70	55	white	
*Ulmus species**	Elm*	70	40		Disease resistant Variety only
Zelkova serrata	Zelkova	70	60		

ǂ Evergreen trees – Do not plant where motorists' line of sight will become impaired
*Native trees

Appendix C

Acceptable Trees for Public plantings <u>Other Than</u> Commercial Landscape Parking Lot islands

<u>Small Trees - for under powerlines ≤20'</u>

Species	CommonName	Height	Width	Flowers	Comments
Acer ginnala	Amur Maple	20	20		
Acer japonicum	Fullmoon Maple	15	10		
Aesculus pavia	Red Buckeye	20	25	red	large nuts
*Chionanthus Species**	Fringe Tree*	15	15	white	
Cornus racemosa	Gray Dogwood	15	12	white	spreading/weeping
Cotinus coggygria	Smoketree	15	15	pink	
Hamamelis mollis	Witch Hazel	20	18	yellow	
Heptacodium miconioides	Seven-Son Flower Tree	15	15	white	
*Ilex decidua**	Possom Haw*	15	15	white	
Magnolia stellata	Star Magnolia	20	15	white	
Prunus triloba	Flowering Almond	15	15	pink	
Rhamnus caroliniana	Carolina Buckthorn	15	15		thorns

*Native trees

<u>Small Trees - for under powerlines 20'-30'</u>

Species	CommonName	Height	Width	Flowers	Comments
Acer buergeranum	Trident Maple	30	30		
Acer palmatum	Japanese Maple	25	25		
Acer tartaricum	Tartarian Maple	25	25		
*Amelanchier species**	Serviceberry*	25	15	white	
*Cercis canadensis**	Redbud*	30	35	pink or white	
*Cornus florida**	Flowering Dogwood*	30	30	white	partial shade only
Cornus kousa	Kousa Dogwood	30	30	white	
*Crataegus spp.**	Hawthorn*	35	35	variety	dwarf cultivars only
Magnolia x soulangiana	Saucer Magnolia	30	30	pink	
*Malus spp.**	Crabapple*	35	25	variety	dwarf cultivars only
Salix matsudana	Corkscrew Willow	35	20		
Syringa reticulata	Lilac Tree	30	20	white	

*Native trees

Medium size trees – No Dwarf Cultivars

Species	CommonName	Height	Width	Flower	Comments
Acer buergeranum	Trident Maple	30	30		
Acer capestre	Hedge Maple	40	40		
Acer Grandidentatum	Bigtooth Maple	35	20		
Acer griseum	Paperbark Maple	35	30		temperamental/delicate
Acer palmatum	Japanese Maple	25	25		
Acer tartaricum	Tartarian Maple	25	25		
*Amelanchier species**	Serviceberry*	30	20	white	
*Betula nigra**	River Birch*	50	35		
Carpinus betulus	European Hornbeam	40	30		
*Carpinus caroliniana**	American Hornbeam*	35	35		temperamental/delicate
Castanea spp.	Chinese Chestnut	40	50	yellow	spiny fruit pods
*Celtis species**	Hackberry*	50	40		
*Cercis canadensis**	Redbud*	30	35	Pink/white	
*Cladrastis kentukea**	Yellowwood*	50	55	white	
*Cornus florida**	Flowering Dogwood*	30	30	white	needs partial shade
Cornus kousa	Kousa Dogwood	30	30	white	
Corylus corlurna	Turkish Filbert	50	35		
*Crataegus spp.**	Hawthorn*	35	35	white	Disease resistant var. only
Evodia danielii	Bebe Tree	30	30	white	
Franklinia alatamaha	Franklin Tree	25	15	white	temperamental/delicate
Halesia carolina	Carolina Silverbell	40	30	white	
Ilex spp.	Holly	50	25		evergreen
*Juniperus species**	Juniper species*	25	10		evergreen
Koelreataria paniculata	Golden Raintree	40	40	yellow	
Magnolia macrophylla	Bigleaf Magnolia	40	25	white	
Magnolia virginiana	Sweetbay Magnolia	50	25	white	
Magnolia x soulangiana	Saucer Magnolia	30	30	pink	
Malus spp.	Crabapple*	35	25	variety	Disease resistant var. only
*Ostrya virginiana**	Amer. Hophornbeam*	40	30		temperamental/delicate
Parrotia persica	Persian Parrotia	40	40	red	
Phellodendron amurense	Amur Corktree	45	40		
Picea pungens	Blue Spruce	50	20		evergreen
*Pinus echinata**	Shortleaf Pine*	50	35		evergreen
Pinus sylvestris	Scotch Pine	50	30		evergreen
*Pinus virginiana**	Virginian Pine*	40	35		evergreen
Prunus cerasifera	Cherry Plum	25	25	white	
Prunus maackii	Amur Chokecherry	40	35	white	
Prunus sargentii	Sargent Cherry	40	18	pink	
Prunus serrulata	Oriental Cherry	35	25	pink	
Prunus subhirtella	Higan Cerry	35	35	pink	
Prunus virginiana	Choke Cherry	30	20	white	
Prunus x yedoensis	Yoshino Cherry	45	45	pink	
Pterostyrax hispida	Epaulette Tree	30	30	white	
Stewartia species	Stewartia species	25	25	white	temperamental/delicate
Styrax japonicus	Japanese Snowbell	30	25	white	
Syringa reticulata	Lilac Tree	30	20	white	
*Thuja occidentalis**	Arborvitae*	30	10		evergreen
Xanthoceras sorbifolium	Yellowhorn	40	40	white	difficult to find

*Native trees

Large size trees – No Dwarf Cultivars

Species	CommonName	Height	Width	Flower	Comment
*Acer nigrum**	Black Maple*	60	30		
Acer pseudoplatanus	Sycamore Maple	70	60		
*Acer rubrum**	Red Maple*	75	70		
*Acer saccarum**	Sugar Maple*	80	70		
Acer x freemanii	Freeman Maple	60	50		
*Aesculus flava**	Yellow Buckeye*	75	35	yellow	large nuts
*Aesculus glabra**	Ohio Buckeye*	70	50	yellow	large nuts
Aesculus hippocastanum	Horsechestnut	70	55	Yellow	large nuts
Alnus glutinosa	Black Alder	80	40		
Calocedrus decurrens	Incense Cedar	60	12		evergreen
*Carya illinoensis**	Pecan*	100	70		large nuts
*Carya spp.**	Hickory*	80	35		large nuts
*Catalpa specioca**	Catalpa*	60	50	white	
Cercidiphyllum japonicum	Katsura Tree	60	60		temperamental/delicate
Chamaecyparis lawsoniana	False cypress	75	20		evergreen
*Diospyros virginiana**	Persimmon*	60	35		large fruit
Eucommia ulmoides	Hardy Rubber Tree	60	60		
*Fagus grandifolia**	Beech*	75	80		prefers partial shade
Ginkgo biloba	Ginkgo	80	80		get male only/fruit is smelly
*Gleditsia triacanthose**	Thornless Honey Locust*	80	70		
*Gymnocladus dioicus**	Kentucky Coffee Tree*	75	65		large fruit pods
*Juglans nigra**	Black Walnut*	80	80		large nuts
*Liquidambar styraciflua**	Sweetgum*	75	65		‘Hapydaze' or 'Rotundiloba'
*Liriodendron tulipifera**	Tulip Poplar*	90	50	yellow	
*Magnolia acuminate**	Cucumbertree*	70	55	yellow	
Magnolia grandiflora	Southern Magnolia	80	40	white	evergreen
Metasequoia glyptostroboides	Dawn Redwood	85	40		
*Nyssa sylvatica**	Black Tupelo*	70	45		
*Oxydendron arboretum**	Sourwood*	60	35	white	
Picea abies	Norway Spruce	100	40		evergreen
Pinus nigra	Austrian Pine	60	35		evergreen
*Pinus strobus**	White Pine*	80	35		evergreen
Pinus taeda	Loblolly Pine	80	30		evergreen
*Platanus occidentalis**	Sycamore*	90	70		
Platanus x acerfolium	London Planetree	80	65		
*Prunus serotina**	Black Cherry*	90	50	white	
Psuedotsuga menziesii	Douglas Fir	60	30		evergreen
Quercus acutissima	Sawtooth Oak	50	55		
*Quercus alba**	White Oak*	100	80		large nuts
*Quercus bicolor**	Swamp White Oak*	80	80		large nuts
*Quercus coccinea**	Scarlet Oak*	75	60		
*Quercus falcate**	Southern Red Oak*	80	70		large nuts
*Quercus lyrata**	Overcup Oak*	50	50		
*Quercus macrocarpa**	Bur Oak*	90	90		large nuts
*Quercus michauxii**	Swamp Chestnut Oak*	70	50		large nuts
Quercus muehlenbergii	Chinkapin Oak	50	60		large nuts
Quercus phellos	Willow Oak	75	60		
Species cont.	**CommonName**	**Height**	**Width**	**Flower**	**Comment**

Quercus robar	English Oak	80	70		large nuts
*Quercus rubra**	Northern Red Oak*	80	65		large nuts
*Quercus shumardii**	Shumard Oak*	80	65		large nuts
Salix alba	Weeping Willow	70	70		
*Sassafras albidum**	Sassafras*	60	40	yellow	
Sophora japonica	Scholartree	70	70	white	
*Taxodium distichum**	Bald Cypress*	80	45		
*Tilia americana**	American Linden*	70	50	yellow	
Tilia cordata	Little Leaf Linden	80	55	yellow	
Tilia tomentosa	Silver Linden	70	55	white	
*Tsuga canadensis**	Canadian Hemlock*	70	35		evergreen
*Ulmus species**	Elm*	70	40		Disease resistant variety only
Zelkova serrata	Zelkova	70	60		

*Native trees

Appendix D

Undesirable Trees for any Public Location or Commercial Landscape Parking Lot Islands

Scientific Name	Common Name	Comments/Reason
Acer negundo	Boxelder	Weak structure & wood
Acer saccharinum	Silver Maple	Weak structure & wood
Ailanthus altissima	Tree of Heaven	Weak wood/non-native/highly invasive
Albizia spp.	Mimosa	Non-native & invasive/dieback problems
Betula platyphylla	White Birch	Does not do well in our climate
Elaeagnus angustifolia	Russian Olive	Non-native/highly invasive
Fraxinus spp.	Ash	Emerald Ash Borer will decimate Ash
Maclura pomifera	Osage Orange	Weak structure and high maintenance
Morus spp.	Mulberry	Weak structure and high maintenance
Populus deltoides	Cottonwood	Undesirable fruit
Populus nigra	Lombardy Poplar	Weak structure & wood
Pyrus calleryana	Bradford Pear	Weak structure & wood
Quercus imbricaria	Shingle Oak	Prone to galls and high Maintenance
Quercus palustris	Pin Oak	Prone to galls and high Maintenance
Robinea pseudoacacia	Black Locust	Prone to disease/invasive/messy
Salix nigra	Black Willow	Weak structure & wood

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Pedestrian Crosswalk System: Rectangular Rapid-Flashing Beacon



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Submittal Package

Quote Number:_____ TAPCO Contact:_____

_____

_____

Customer:	Document Date:	
	Project Name:	
	Project ID:	
	Customer Contact:	
Installation Address/Location:	Phone Number:	
	Email:	
	Lead Time:	
		Lead time upon submittal approval.

Documentation Included:
☐ Pole Layout Drawing
☐ Detection Devices
☐ Controller
☐ Communication Devices
☐ Warning Devices
☐ Power Source
☐ Cabinet
☐ Mounting Equipment
☐ Static Signs

Special Conditions
☐ Scope of work will be required prior to accepting purchase order
☐ Bid as alternate (see below summary of deviations from bid specification).
☐ System contains custom components and is not returnable

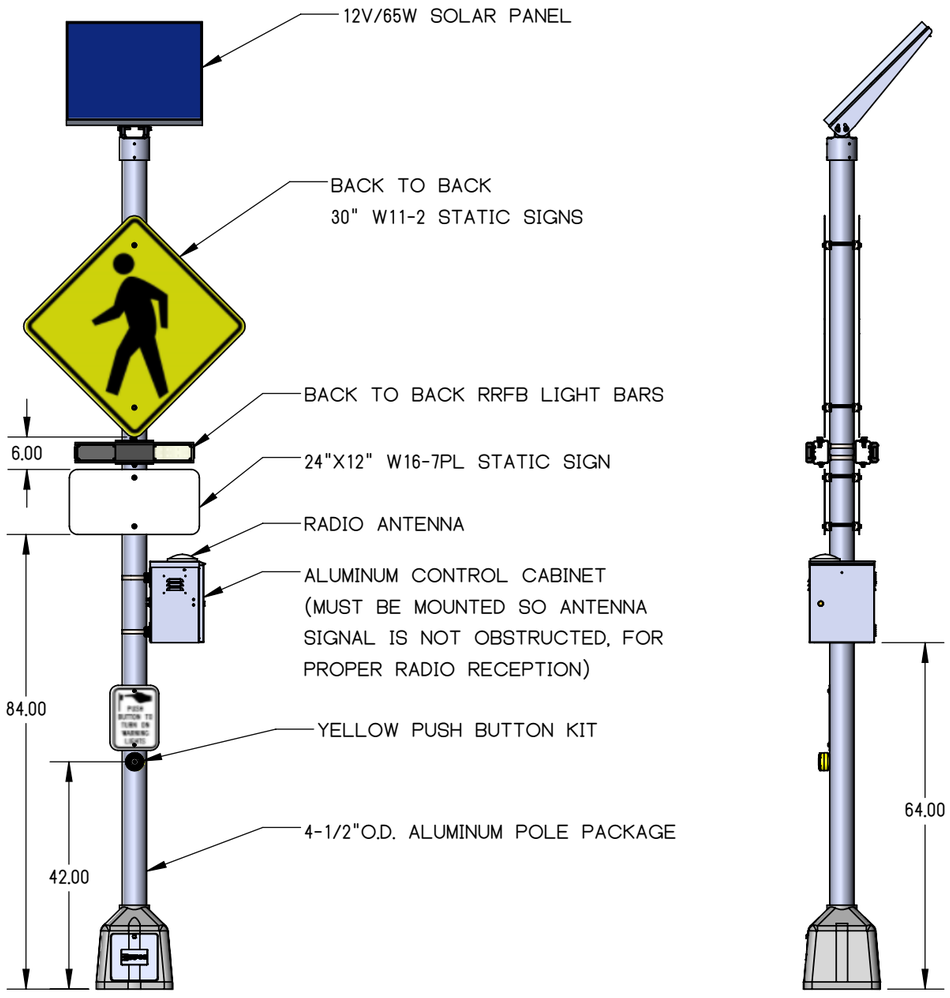
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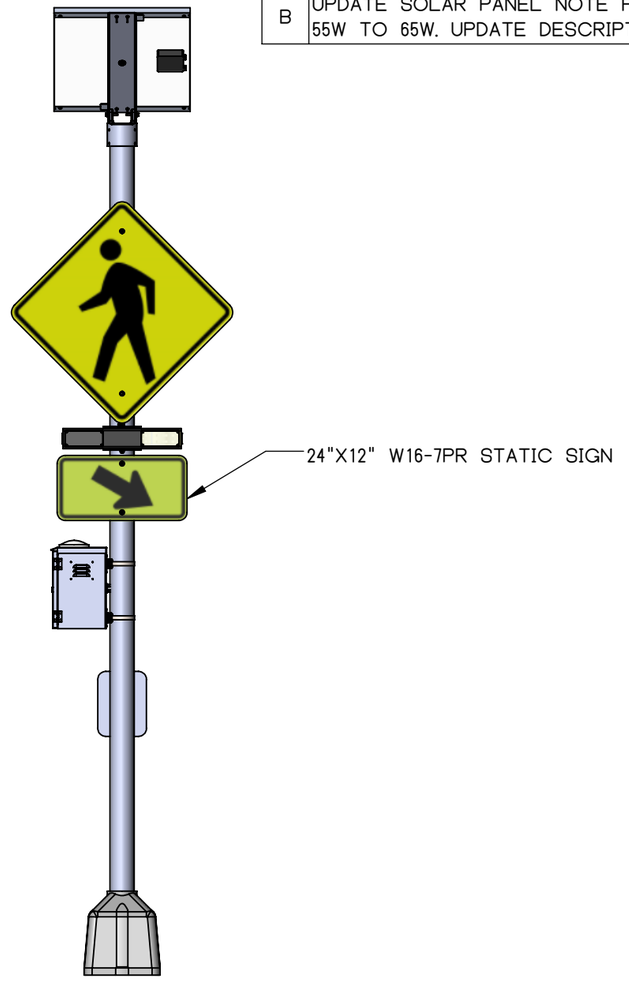
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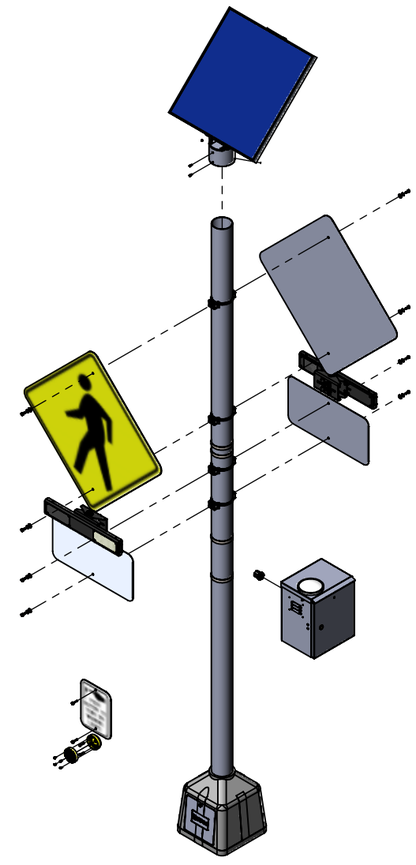
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Customer Approval Signature

X _____
Date

REVISIONS				
REV.	DESCRIPTION	DATE	ECN #	AUTHOR/APPROVED
A	INITIAL RELEASE	5/7/2018	N/A	C.G./J.P.
B	UPDATE SOLAR PANEL NOTE FROM 55W TO 65W. UPDATE DESCRIPTIONS.	12/07/2022	CC-692	SR







SCALE 1 : 32

NOTES:
1. ORIENT SOLAR PANEL TOWARDS SOUTHERN SKY FOR MAXIMUM SOLAR EXPOSURE
2. CONTROL CABINET HEIGHT MAY VARY.
3. SNAP LOCKS ARE PROVIDED, STANDARD 3/4" S/S BANDING IS RECOMMENDED
4. J-BOLTS NOT SHOWN
5. ALL DIMENSIONS ARE FOR REFERENCE ONLY
6. STATIC SIGNS NOT INCLUDED IN SYSTEM

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TRAFFIC & PARKING CONTROL CO., INC.

C:\SWPDM\TAPCO\PDM\LEGACY DATA\ENGINEERING\SPECIFICATIONS\600147

MATERIAL		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5-2009
FINISH		REFERENCE:

TOLERANCE UNLESS OTHERWISE SPECIFIED
HOLE Ø ±.003
DEC. INCH
X ±0.030
XX ±0.015
XXX ±0.005
ANGULAR ±0.5°

TITLE:
RRFB, SOLAR 65/50, RADIO, SOP, DS, AMBER, PB, H POLE X2 (30" W11-2 ARRANGEMENT)

			SIZE	DWG. NO.	REV	WEIGHT:
DESIGNED BY:			B	600147	B	
DRAWN BY:	C. GRAVES	5/7/2018				SCALE: 1:28
CHECKED BY:	J. PATTERSON	5/2/2019				SHEET 1 OF 7

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LED BULLDOG PUSH BUTTON

SPECIFICATIONS

POWER	12 to 36VDC (from control circuit)
PUSH BUTTON	Vandal resistant, ADA compliant
ACTIVATION CONFIRMATION	Red LED and beep confirmation activated when push button is pressed
PUSH BUTTON HOUSING	Yellow aluminum is standard; black available
INSTRUCTIONAL SIGN	9" x 12"; retroreflective sheeting with tamper-resistant mounting screws.
OPERATING FORCE	3 pounds maximum
PEAK CURRENT DRAW	~350mA
BUTTON ENCLOSURE	Aluminum, powder coated
BUTTON MATERIAL	316 stainless steel
IMPEDANCE	5 ohms typical
INSTALLATION	2 holes on 2.0" centers, tapped ¼-20 plus ½" or larger hole for wire access
PUSH BUTTON OUTPUT	Solid-state active-low
OPERATING TEMPERATURE RANGE	-30˚F to 165˚F (-34˚C to 74˚C)
DIMENSIONS	3.4" W x 0.9"H x 0.9"D



BULLDOG PUSH BUTTON



R10-25 SIGN

1026-01002-BD LED 05/19/22

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IWS CONTROLLER

SPECIFICATIONS

POWER	Solar Charging for 6VDC and 12VDC systems with Power and Charging Indicator Light
INPUTS	Two digital inputs
OUTPUTS	Two LED device driver outputs; Two digital outputs
PROGRAMMABILITY	Locally using serial input (RS232) or remotely using BlinkLink® via cell modem
PROGRAM ACTIVATION OPTIONS	24/7, Dusk 'til Dawn, BlinkLink® Scheduling, Time Clock, Pushbutton, Radar, or other digital input device
LED-WARNING CONTROL COMPATIBILITY	BlinkerSign®, BlinkerBeacon™, RRFB-XL2™, LegendViz™
CONTROLLER DIMMING	Auto-adjustable via solar panel input for 6V and 12V systems; Auto-adjustable via photocell sensor, if equipped, for 120VAC, 6V and 12V systems
INTERNAL SYSTEM CLOCK	Programmable for Daylight Savings Time, and includes integrated backup battery
SELF-DIAGNOSTIC CAPABILITY	Internal temperature monitor; Battery charging temperature monitor
SOLAR CHARGING	6V and 12V capable, with temperature compensation on 12V
DATA COLLECTION	Collect and store system activation data. Read locally through serial interface or remotely with BlinkLink via cell modem
OPERATING TEMPERATURE RANGE	-40°F to 176°F (-40°C to 80°C)
ENCLOSURE	IP67 rated
ENCLOSURE DIMENSIONS	3.2″W x 3.7″H x 2.5″D



1026-01000 01/20/23

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BLINKERBEAM® WIRELESS RADIO

SPECIFICATIONS

POWER	6V and 12VDC with power indicator light
INPUT	1 digital input, micro USB
OUTPUTS	2 digital output lines, host serial lines for over the air serial
PROGRAMMABILITY	Locally using USB port or front-mounted joystick
BACKLIT LCD DISPLAY	4 lines at 21 characters per line
RADIO TYPES	Low Power Device Radio Low Power Activation Radio Standard Low Power Radio Standard Medium Power Radio Standard High Power Radio
CONNECTIVITY	Up to 16 devices on one network
FREQUENCY	License free 900 MHz frequency hopping spread spectrum with 10 different RF patterns to prevent interference between collocated radio systems
RANGE	Up to 900 feet standard or longer with optional antennas; Indoor applications do not use antennas
STATUS LEDS	Red, green, yellow, amber
REGULATORY COMPLIANCE	FC and ISED compliant
OPTIONAL OUTDOOR ANTENNAS	Omni Whip Omni Dome Omni Base Station Yagi (for specific applications)
OPERATING TEMPERATURE	-40°F to 176°F (-40°C to 80°C); less than 90% relative humidity
DIMENSIONS	3.2"W x 3.7"H x 2.5"D



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1026-01001 08/17/22

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RECTANGULAR RAPID FLASHING BEACON

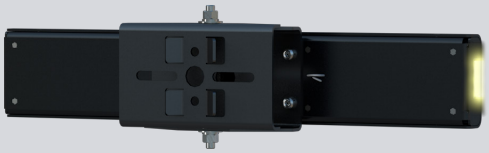
RRFB-XL2™

SPECIFICATIONS

POWER	Low voltage, current controlled from TAPCO controller
CONTROLLER DIMMING	Auto-adjustable via solar panel input for 6V and 12V systems; Auto-adjustable via photocell sensor, if equipped, for 120VAC, 6V and 12V systems. Non-dimming option available.
LIGHT BAR HOUSING	Black powder-coated aluminum
CERTIFICATIONS	NEMA TS2
VEHICLE LED MODULES	7″W x 3″H; 2 arrays of 8 amber LEDs spaced 7″ apart, SAE J595 Class 1 Certified
PEDESTRIAN LED MODULES	0.5″W x 1.75″H side-viewable, flash simultaneously with vehicle LED (Field-configurable - optional, one, or both sides)
LED COLOR	Amber
FLASH PATTERNS	Interim Approval 21 compliant Wig-Wag plus Simultaneous (WW + S)
VISIBILITY	Daytime: more than 1,000 feet Nighttime: more than 1 mile
UNIVERSAL MOUNTING BRACKET	Articulates up to 30˚ Mounts to most common size metal or wood posts
MOUNTING HARDWARE	Banding to round pole, U-bolt to round pole, bolt to square pole
LIFE EXPECTANCY	100,000 hours
TEMPERATURE RANGE	-40˚F to 176˚F (-40˚C to 80˚C)
LIGHT BAR DIMENSIONS	22″W x 4″H x 1.5″D



FRONT



BACK



SIDE



TOP

1026-01004 01/20/23

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65W SOLAR PANEL

SPECIFICATIONS

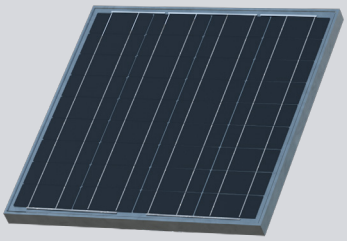
POWER	65W
NOMINAL VOLTAGE	12V
OPEN CIRCUIT VOLTAGE	21.66V
SHORT CIRCUIT CURRENT	3.97A
MAXIMUM POWER VOLTAGE	18.65V
MAXIMUM POWER CURRENT	3.77A
GLASS	High transparent, low iron, tempered
FRAME	Heavy-duty anodized aluminum
CONSTRUCTION	Silicon cells encapsulated in double-layer EVA with a white polymer backing
WEIGHT	10.8lbs
ENCLOSURE	IP67 rated
MOUNTING HARDWARE	Various options available
OPERATING TEMPERATURE RANGE	-40˚F to 185˚F (-40˚C to 85˚C)
DIMENSIONS	25.7"W x 25.2"H x 1.4"D

TOP-OF-POLE MOUNTING BRACKET

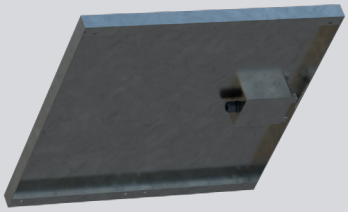
MATERIAL	Aluminum
POLE TYPE	4½" round (shown) or 3" round
MOUNTING HARDWARE	Set screws

SIDE-OF-POLE MOUNTING BRACKET

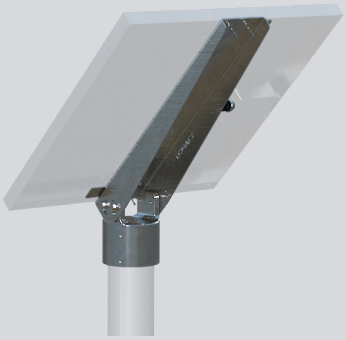
MATERIAL	Aluminum
POLE TYPE	Universal (4½" shown)
MOUNTING HARDWARE	Banding, U-bolt, or bolt



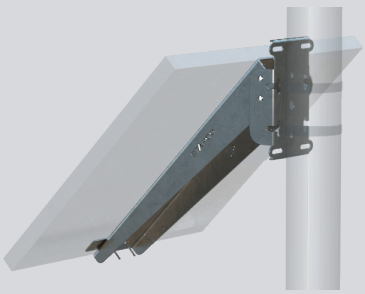
FRONT



BACK



TOP-OF-POLE MOUNTING BRACKET



SIDE-OF-POLE MOUNTING BRACKET

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1026-01007-65W 05/13/22

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Safe travels.

50Ah BATTERY

Sealed Lead-Acid

SPECIFICATIONS

VOLTAGE	12V
CAPACITY AT C/100	50Ah
VENT	Valve Regulated
TERMINAL	I6
NON-SPILLABLE	As defined by Department of Transportation (DOT), International Commercial Airline Organization (ICAO) and International Airline Transport Association (IATA) definitions
WEIGHT	32.23 lbs
OPERATING TEMPERATURE RANGE	-40°F to 176°F (-40°C to 80°C)
DIMENSIONS	7.75"Lx6.49"Wx6.69"H



1026-01009-50Ah 05/19/22

(800) 236-0112 TAPCOnet.com

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Safe travels.

MEDIUM CONTROL CABINET

CABINET SPECIFICATIONS

CERTIFICATION	NEMA 3R type
MATERIAL	0.080" aluminum
MOUNTING OPTIONS	4 stainless steel studs for various mounting bracket options including banding, U-bolt, wall-mount, square pole and wood post.
HINGES	2 tamper-resistant stainless steel hinges
ACCESS	Replaceable #2 traffic lock with keys
VENTING	Screened vents on cabinet side and door
DRAINAGE	Screened drain holes on bottom of cabinet
UV RESISTANT LABEL	Applied to exterior of cabinet outlining model number, serial number, date of manufacture as well as any applicable regulatory information
CONTROL PANEL	All circuit components are attached or connected to removable control panel for maintenance
DOOR MOUNTED POUCH	Contains system documents
ENCLOSURE DIMENSIONS	12.5"W x 15"H x 9.9"D



FRONT



BACK

1026-01032-M 11/02/22

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UNIVERSAL SIDE-OF-POLE CABINET MOUNTING BRACKET

UNIVERSAL MOUNTING BRACKET

MATERIAL	5052-H32 Aluminum
MOUNTING HARDWARE INCLUDED	U-bolts and Straight Bolts, 3/8-16" (2) 3.5"L, (1) 4.5x6, (1), 4x5.5, (1) 3.5x4.5, (1) 2.375x3.5 (HK01AA)
MOUNTING METHODS ACCEPTED	Through bolts, u-bolts, banding
ACCEPTED POLE TYPES	2-3/8", 3", 3-1/2", 4", 4-1/2" Round, 2" Square Perforated Post
COMPATIBLE CABINETS	Small: 108766-PEM Medium: 108045-PEM (shown) Large: 120652-PEM
HUB EXTENSION	Threaded Pipe Extension (2), 3/4" x 2.5" SCH 40 Aluminum and 1-1/4" x 2.5" SCH 40 Aluminum
BRACKET TO CABINET HARDWARE	Nut, serrated flange, 5/16-18 SS
SECURITY HARDWARE	Tamper Resistant Screw, 1/4-20X0.75, BH Torx
SECURITY HARDWARE TOOL	Torx Driver, T-27 Pin Head, 1/4" Hex Driver
WEIGHT	7 lbs.
DIMENSIONS	12.54"Lx8.14"Wx3.5"D



FRONT - OPEN



FRONT - CLOSED



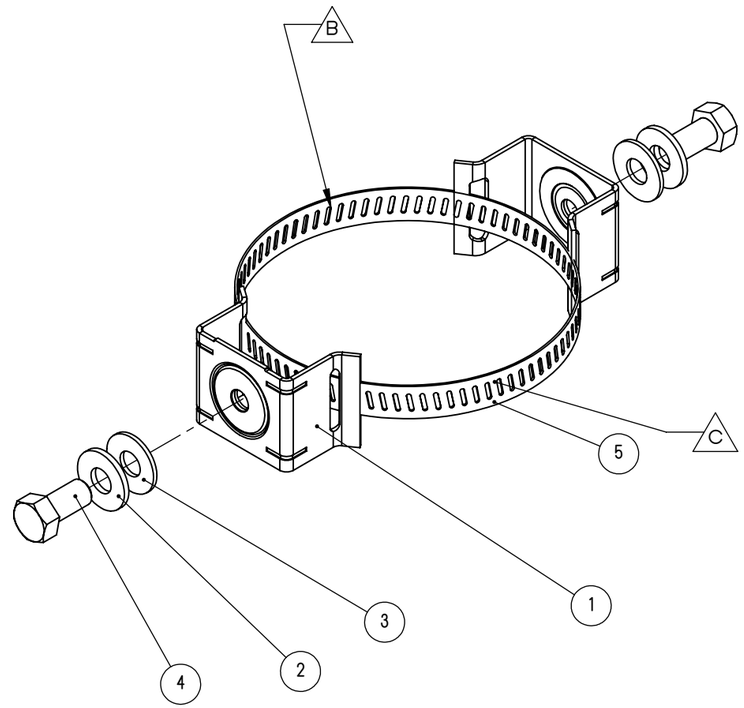
BACK - CLOSED

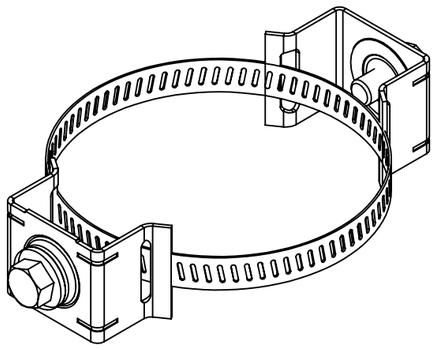
1026-01024-U 11/02/22

(800) 236-0112 TAPCOnet.com

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REVISIONS				
REV.	DESCRIPTION	DATE	CC #	AUTHOR/APPROVED
A	INITIAL RELEASE	-	-	--/--
B	SWITCHED 037-00016 TO 140153	6/17/2019	CC-120	C.G./J.R.P.
C	SWITCHED 140153 TO 037-00016	6/21/2019	CC-250	C.G./J.R.P.





ITEM NO.	PART NUMBER	DESCRIPTION	DWG QTY.	KIT QTY	UNITS
6	126997 (NOT SHOWN)	BAG, RECLOSABLE 10"X12" 2 MIL S-1701	1	1	EA
B C 5	037-00016	SNAP-LOK ASSY, WORM CLAMP 2 TO 12-1/4DIA X 9/16W	1	2	EA
4	763-00042	BOLT 3/8-16X3/4 HEX S/S	2	4	EA
3	052-00295	NYLON WASHER 5/16" X 7/8" OD	2	4	EA
2	052-00295	NYLON WASHER 5/16" X 7/8" OD	2	4	EA
1	035-00008	FLARED LEG BRACKET, NO BOLT, NO WASHER D02299	2	4	EA

TAPCO®
TRAFFIC & PARKING CONTROL CO., INC.

S:\ENGINEERING\SPECIFICATIONS\107265

MATERIAL	STAINLESS STEEL	INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5-2009
FINISH	RAW	REFERENCE:

TOLERANCE UNLESS OTHERWISE SPECIFIED

HOLE Ø	±.003
DEC.	INCH
X	±0.030
XX	±0.015
XXX	±0.005
ANGULAR	±0.5°

TITLE:

SIGN MOUNTING KIT, BANDED, FLARE LEG, STANDARD, FOR MOUNTING B2B STATIC SIGNS TO A LARGE POLE

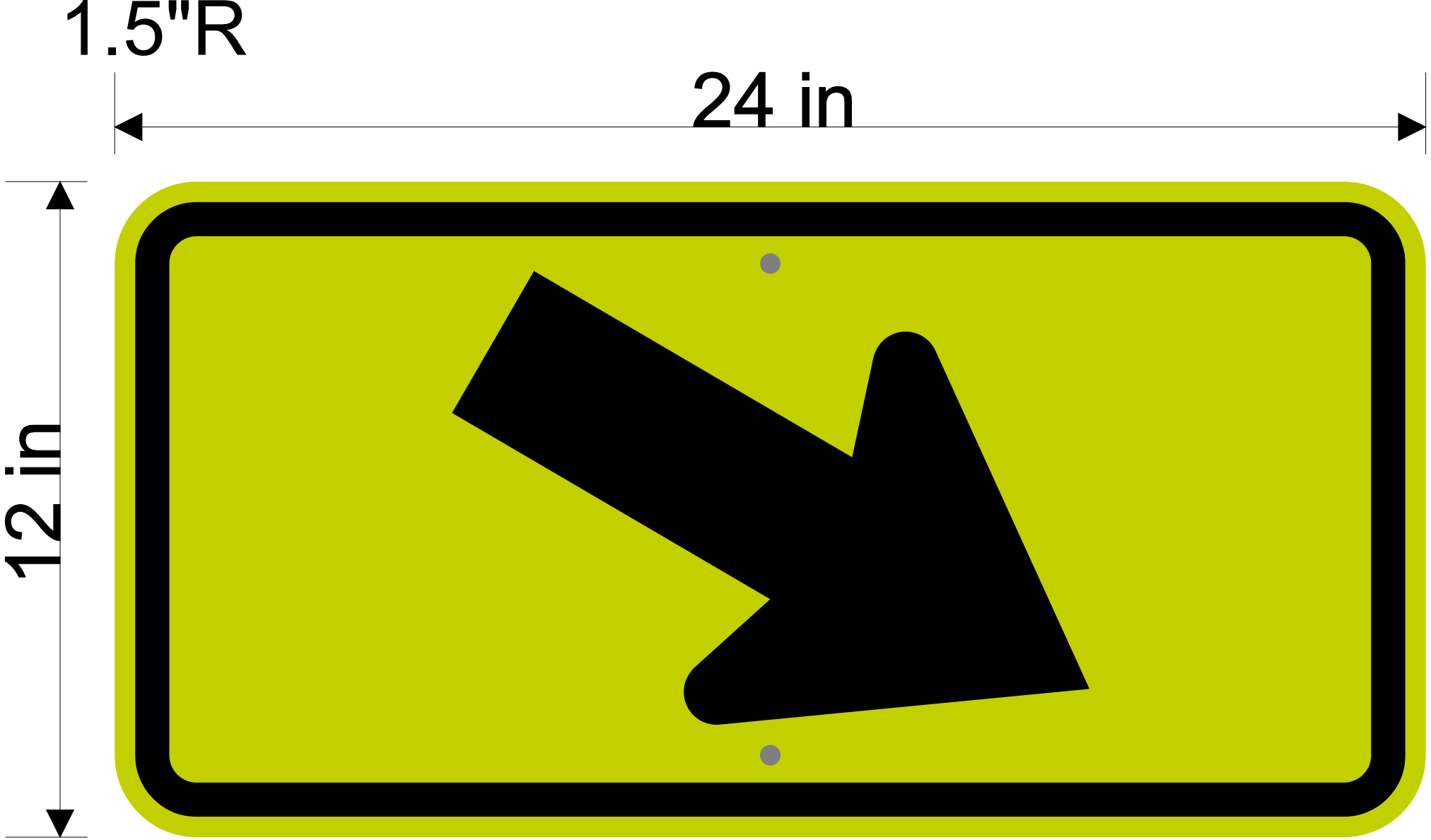
			SIZE	DWG. NO.	REV	WEIGHT:
DESIGNED BY:	TAPCO		B	107265	C	
DRAWN BY:	C. GRAVES	6/21/2019				SCALE: 1:2
CHECKED BY:	J. PATTERSON	6/24/2019				

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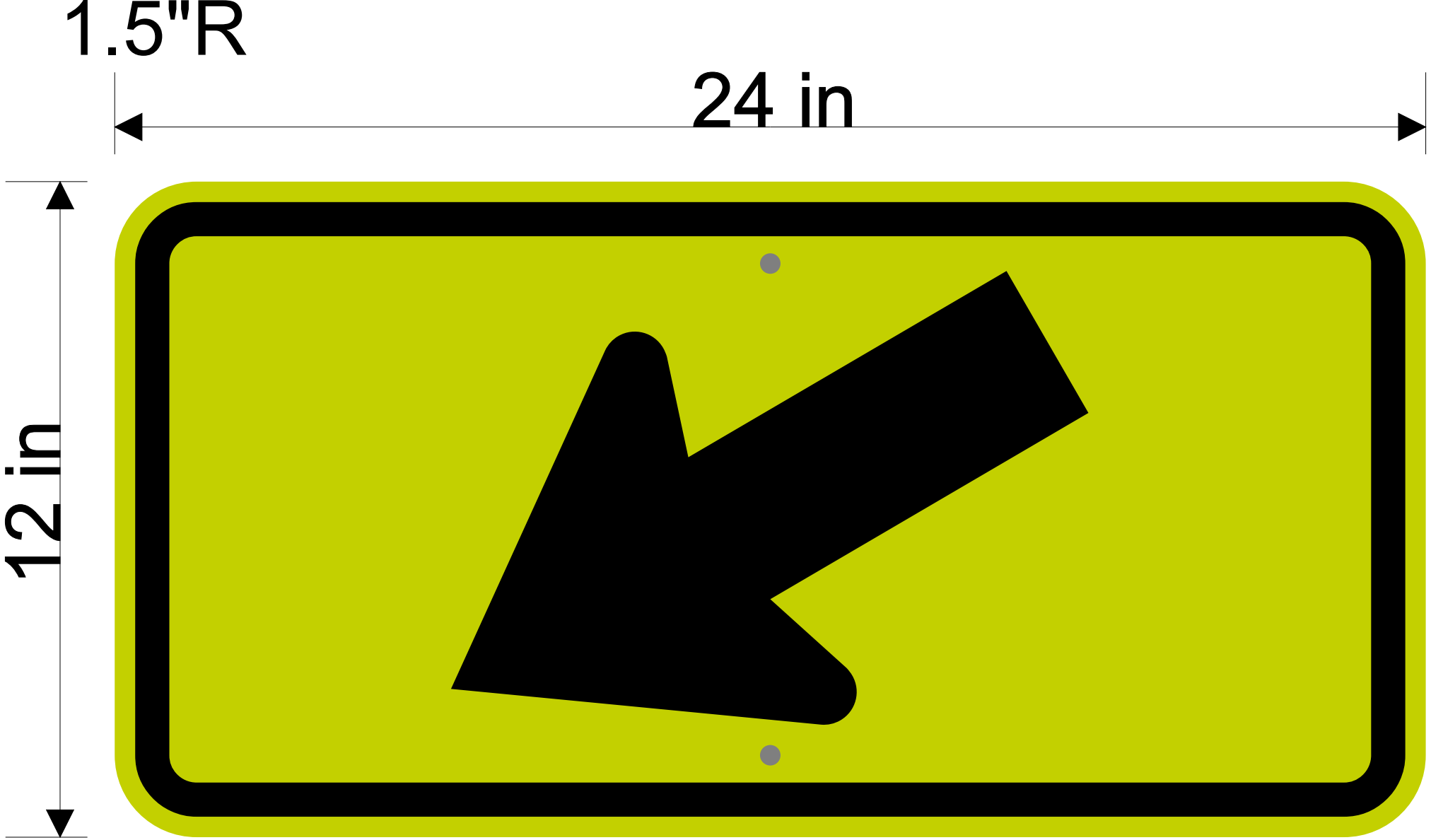
SHEET 1 OF 1



30" Diamond, 1.875" Rad
w/(2) 3/8" holes 30" apart on center
Sheeting: DG3 Fluor. Yellow-green



24"x12" .080 gauge, 1.5" Rad
w/(2) 3/8" holes 1.5" in
Sheeting: DG3 Fluor. Yellow-green



24"x12" .080 gauge, 1.5" Rad
w/(2) 3/8" holes 1.5" in
Sheeting: DG3 Fluor. Yellow-green

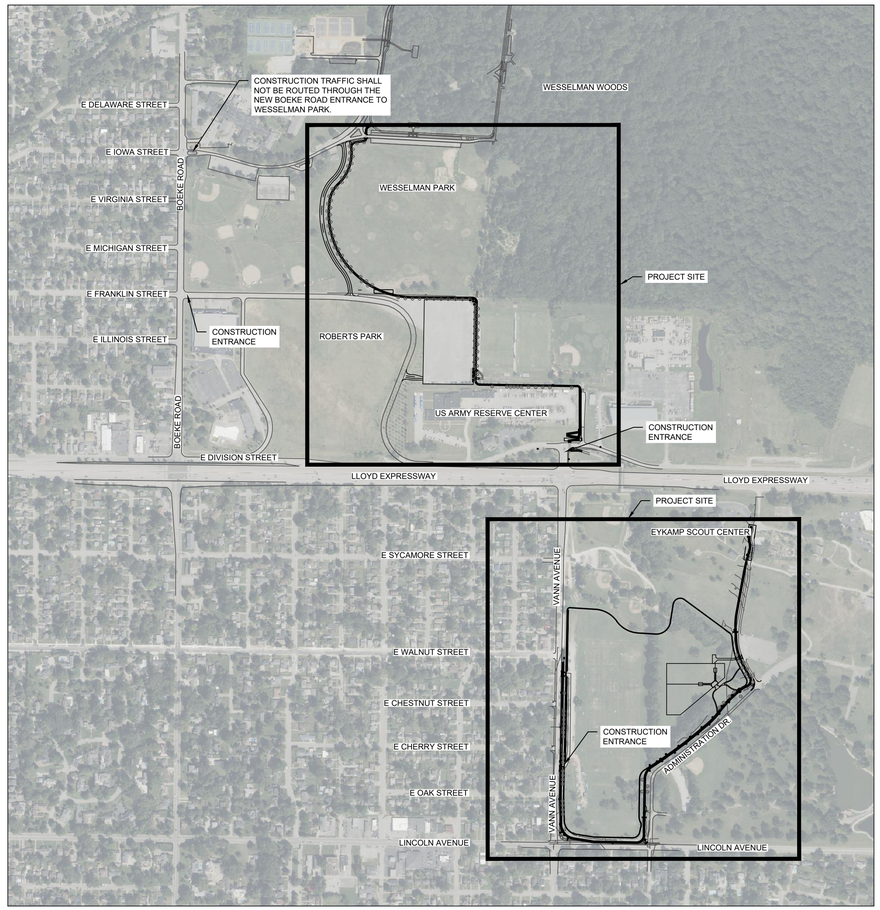
2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
Evansville, Indiana
Bid Documents
March 31, 2025

CITY OF EVANSVILLE

MAYOR	CITY COUNCIL	PARKS BOARD	CLERK / TREASURER
Stephanie Terry	Ben Trockman - Ward 1 Missy Mosby - Ward 2 Zac Heronemus - Ward 3 Alex Burton - Ward 4 Angela Koehler Lindsey - Ward 5 Jim Brinkmeyer -Ward 6 Mary Allen - At-Large Paul Green - At-Large Courtney Johnson - At-Large	Jerome Stewart Michelle Peterlin Wayne Kinney John Bates Derrick Cleon	Laura Windhorst - Clerk



STATE MAP
NTS



PROJECT LOCATION MAP
1" = 500'

SHEET INDEX

SHEET TITLE	SHEET DESCRIPTION
I	COVER
C1	SURVEY
C2	SURVEY
C3	SURVEY
C4	SURVEY
C5	SURVEY
C6	SURVEY
C7	SURVEY
C8	SURVEY
C9	SURVEY
LA100	OVERALL SITE PLAN
LA101	TYPICAL SECTIONS
LA102	SITE DETAILS
LA103	SITE DETAILS
LA104	SITE DETAILS
LA105	SITE DETAILS
LA106	SITE DETAILS
LA200	SITE SWPPP - GENERAL NOTES
LA201	DEMOLITION PLANS
LA202	DEMOLITION PLANS
LA203	DEMOLITION PLANS
LA204	DEMOLITION PLANS
LA205	DEMOLITION PLANS
LA206	DEMOLITION PLANS
LA207	DEMOLITION PLANS
LA208	DEMOLITION PLANS
LA209	DEMOLITION PLANS
LA210	DEMOLITION PLANS
LA211	DEMOLITION PLANS
LA212	DEMOLITION PLANS
LA213	DEMOLITION PLANS
LA214	DEMOLITION PLANS
LA215	DEMOLITION PLANS
LA216	DEMOLITION PLANS
LA217	DEMOLITION PLANS
LA218	DEMOLITION PLANS
LA219	DEMOLITION PLANS
LA220	DEMOLITION PLANS
LA221	DEMOLITION PLANS
LA300	GENERAL NOTES
LA301	PLAN AND PROFILE
LA302	PLAN AND PROFILE
LA303	PLAN AND PROFILE
LA304	PLAN AND PROFILE
LA305	PLAN AND PROFILE
LA306	PLAN AND PROFILE
LA307	PLAN AND PROFILE
LA308	PLAN AND PROFILE
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LA319	PLAN AND PROFILE
LA320	PLAN AND PROFILE
LA321	PLAN AND PROFILE
LA322	PLAN AND PROFILE
LA323	PLAN AND PROFILE
LA500	TRAIL SECTIONS
LA501	TRAIL SECTIONS
LA502	TRAIL SECTIONS
LA503	TRAIL SECTIONS
LA504	TRAIL SECTIONS
LA505	TRAIL SECTIONS
LA506	TRAIL SECTIONS
LA507	TRAIL SECTIONS
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LA510	TRAIL SECTIONS
LA511	TRAIL SECTIONS
LA512	TRAIL SECTIONS
LA513	TRAIL SECTIONS
LA514	TRAIL SECTIONS
LA515	TRAIL SECTIONS
LA600	PLANTING SCHEDULE AND DETAILS
LA601	PLANTING PLAN
LA602	PLANTING PLAN
LA603	PLANTING PLAN
LA604	PLANTING PLAN
LA605	PLANTING PLAN
LA606	PLANTING PLAN
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LA617	PLANTING PLAN
LA618	PLANTING PLAN
LA619	PLANTING PLAN
LA620	PLANTING PLAN
LA621	PLANTING PLAN
C-100	ENLARGED DRAINAGE
C-101	DRAINAGE DETAILS

Indiana 811
Know what's below. Call before you dig.

FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\GI - Cover Sheet

PREPARED BY:
REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:
City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:
2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE

THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM PREPARED BY REA FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE, AND MAY BE USED SOLELY WITH RESPECT TO THIS PROJECT. THE DOCUMENTS MAY NOT BE REPRODUCED OR MODIFIED BY A THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF REA. AUTHORIZED USE OF ELECTRONIC MEDIA OR FILE DOES NOT GUARANTEE THAT THESE FILES CONTAIN COMPLETE AND ACCURATE INFORMATION. IN ORDER TO INSURE THE ACCURACY OF THE INFORMATION CONTAINED AND THAT NO CHANGES OR MODIFICATIONS HAVE BEEN MADE, THESE FILES MUST BE COMPARED TO THE PROJECT'S CONTRACT DOCUMENTS WITH STAMPED AND SEALED CERTIFICATION AND APPLICABLE APPROVED MODIFICATIONS.

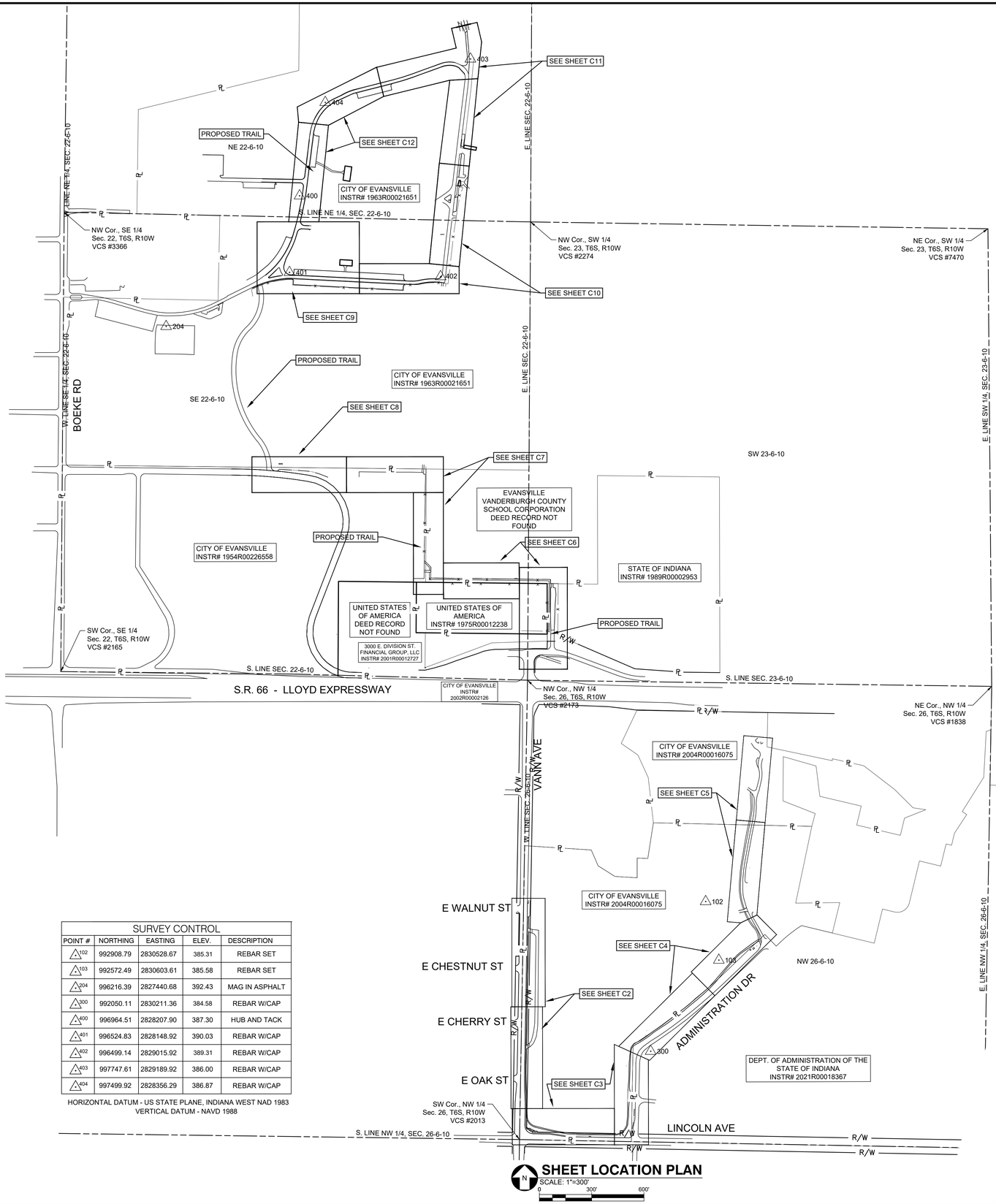
DRAWING NAME:
COVER SHEET

CERTIFICATION:
PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:
I

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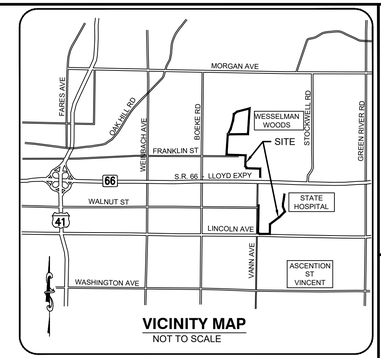
SHEET LOCATION PLAN

SCALE: 1"=300'

0 300' 600'

SURVEY CONTROL				
POINT #	NORTHING	EASTING	ELEV.	DESCRIPTION
102	992908.79	2830528.67	385.31	REBAR SET
103	992572.49	2830603.61	385.58	REBAR SET
204	996216.39	2827440.68	392.43	MAG IN ASPHALT
300	992050.11	2830211.36	384.58	REBAR W/CAP
400	996964.51	2828207.90	387.30	HUB AND TACK
401	996524.83	2828148.92	390.03	REBAR W/CAP
402	996499.14	2829015.92	389.31	REBAR W/CAP
403	997747.61	2829189.92	386.00	REBAR W/CAP
404	997499.92	2828356.29	386.87	REBAR W/CAP

HORIZONTAL DATUM - US STATE PLANE, INDIANA WEST NAD 1983
VERTICAL DATUM - NAVD 1988



VICINITY MAP

NOT TO SCALE

LEGEND

- FOUND MONUMENT
- BOLLARD
- POWER POLE
- ELECTRIC METER
- ELECTRIC JUNCTION BOX
- GUY WIRE
- LIGHT POLE
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- CURB INLET
- STORM SEWER MANHOLE
- ROUND STORM SEWER INLET
- GAS METER
- CONIFEROUS TREE
- DECIDUOUS TREE
- TRAFFIC CONTROL MANHOLE
- TRAFFIC SIGNAL POLE
- TRAFFIC CONTROL BOX
- SANITARY SEWER MANHOLE
- COMMUNICATION PEDESTAL

- RCP REINFORCED CONCRETE PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- VCP VITRIFIED CLAY PIPE
- VCS VANDERBURGH COUNTY SURVEYORS MONUMENT

- APPARENT PROPERTY LINE
- APPARENT RIGHT OF WAY LINE
- SECTION LINE
- ST UNDERGROUND STORM SEWER LINE
- SS UNDERGROUND SANITARY SEWER LINE
- UC UNDERGROUND COMMUNCATION LINE
- UE UNDERGROUND ELECTRIC LINE
- O/E OVERHEAD ELECTRIC LINE
- G UNDERGROUND GAS LINE
- W UNDERGROUND WATER LINE
- X FENCELINE (6' CHANILINK)
- 450 EXISTING CONTOUR

GENERAL NOTES:

1. BOUNDARY REPRESENTATION: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY. THE PROPERTY LINES SHOWN ARE BASED ON RECORD DATA AND ARE PROVIDED FOR REFERENCE ONLY.
2. UTILITY INFORMATION: THE BURIED UTILITIES DEPICTED ON THIS DRAWING RESULT FROM AN 811 UTILITY LOCATE, REFERENCE DOCUMENTS, AND VISIBLE SURFACE UTILITIES OBSERVED DURING A TOPOGRAPHICAL SURVEY COMPLETED ON 08/12/2024. NO ON-SITE POTHOLING HAS BEEN PERFORMED TO VERIFY THE LOCATION OF UNDERGROUND UTILITIES. THEREFORE, THE ACCURACY OF THE UNDERGROUND UTILITIES SHOWN IS NOT GUARANTEED. (811 UTILITY LOCATE TICKET NUMBERS: 2407185425, 2407185471, AND 2407185505, DATED 07/18/2024).
3. CONTRACTOR RESPONSIBILITY: THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING 811 BEFORE COMMENCING ANY WORK ON-SITE.

SURVEYOR'S CERTIFICATE

I, William Ray Griepenstroh, hereby certify that I am a land surveyor, licensed in compliance with the laws of the State of Indiana, and further certify that Route Survey shown herein correctly represents a survey completed by me on August 12th, 2024.

Witness my hand and seal this 14th day of August, 2024.

William Ray Griepenstroh

William Ray Griepenstroh, L.S.
Indiana Registration Number: LS21300013

WILLIAM RAY GRIEPENSTROH — REGISTERED — NO. 21300013 — STATE OF INDIANA — LAND SURVEYOR

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ISSUED FOR USE
08/29/24

THREE i DESIGN
ENGINEERING + ARCHITECTURE
WWW.THREEIDESIGN.COM EVANSVILLE, IN 812-423-6800

REV	DATE	BY	ITEM
A	08/14/24	3ID	ISSUED FOR REVIEW
B	08/29/24	3ID	ISSUED FOR USE

NEXT LEVEL TRAILS 2024
EVANSVILLE PARKS DEPARTMENT
EVANSVILLE, INDIANA

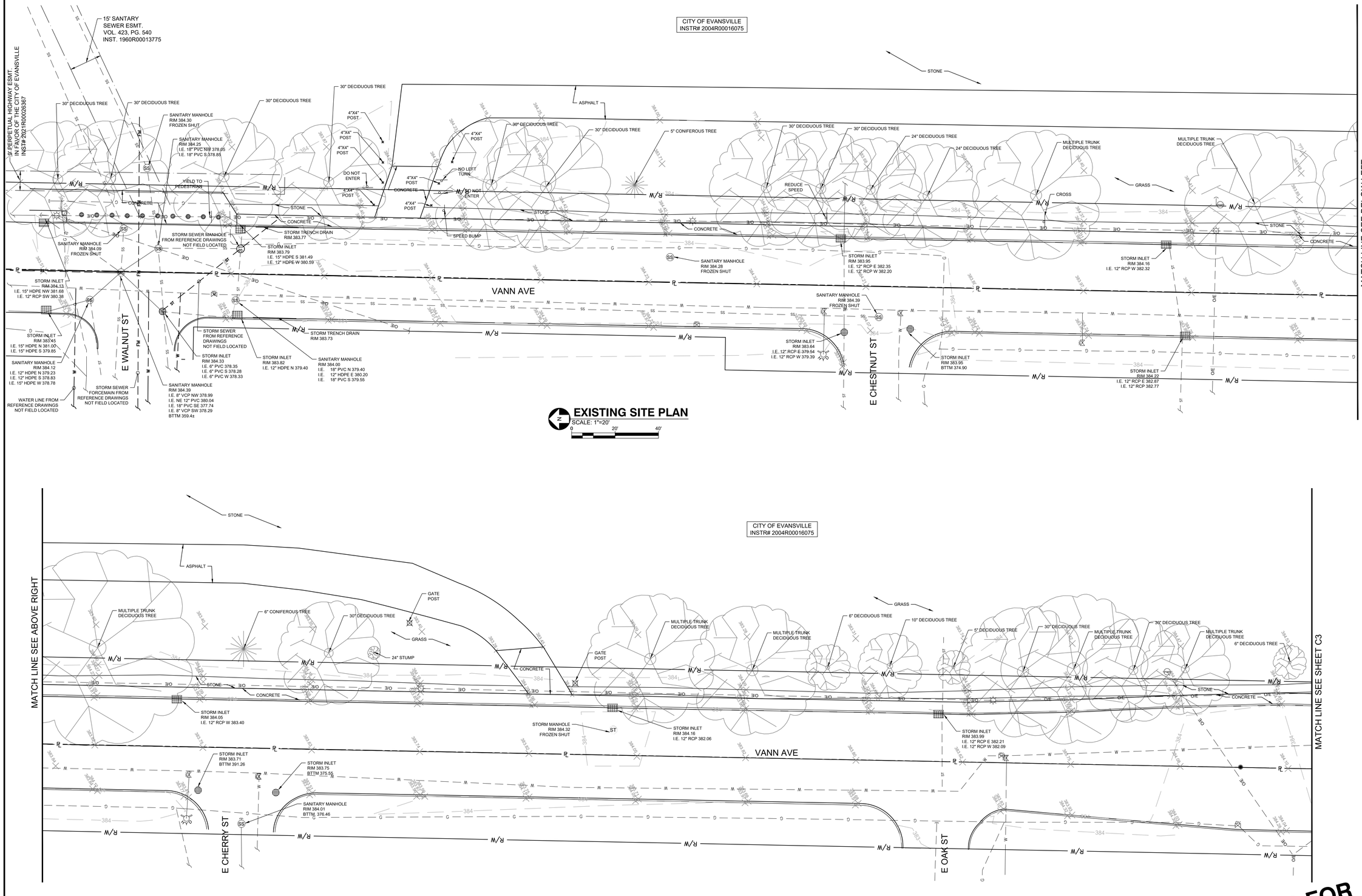
SHEET LOCATION PLAN

DRAWN BY:	DESIGNED BY:
RMY	
CHECKED BY:	DATE:
WRG	08/08/24

SCALE: 1"=300'

PROJECT NUMBER: **24210A**

SHEET NO: **C1**
1 OF 12



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REV	DATE	BY	ITEM
A	08/14/24	3ID	ISSUED FOR REVIEW
B	08/29/24	3ID	ISSUED FOR USE

NEXT LEVEL TRAILS 2024
EVANSVILLE PARKS DEPARTMENT
EVANSVILLE, INDIANA

EXISTING SITE PLAN
SOUTH SECTION

DRAWN BY:	DESIGNED BY:
RMY	
CHECKED BY:	DATE:
WRG	08/08/24

SCALE: 1"=20'

PROJECT NUMBER: 24210A

SHEET NO: C2
2 OF 12

MATCH LINE SEE SHEET C2

CITY OF EVANSVILLE
INSTR# 2004R00016075

VANN AVE

LINCOLN AVE

SW Cor., NW 1/4
Sec. 26, T6S, R10W
VCS #2013

MATCH LINE SEE BELOW LEFT

EXISTING SITE PLAN
SCALE: 1"=20'
0 20' 40'

MATCH LINE SEE ABOVE RIGHT

CITY OF EVANSVILLE
INSTR# 2004R00016075

LINCOLN AVE

ADMINISTRATION DR

DEPT. OF ADMINISTRATION OF THE
STATE OF INDIANA
INSTR# 2021R00018367

MATCH LINE SEE SHEET C4

EXISTING SITE PLAN
SCALE: 1"=20'
0 20' 40'

ISSUED FOR USE
08/29/24

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WWW.THREEIDESIGN.COM EVANSVILLE, IN 812-423-6800

REV	DATE	BY	ITEM
A	08/14/24	3ID	ISSUED FOR REVIEW
B	08/29/24	3ID	ISSUED FOR USE

NEXT LEVEL TRAILS 2024
EVANSVILLE PARKS DEPARTMENT
EVANSVILLE, INDIANA

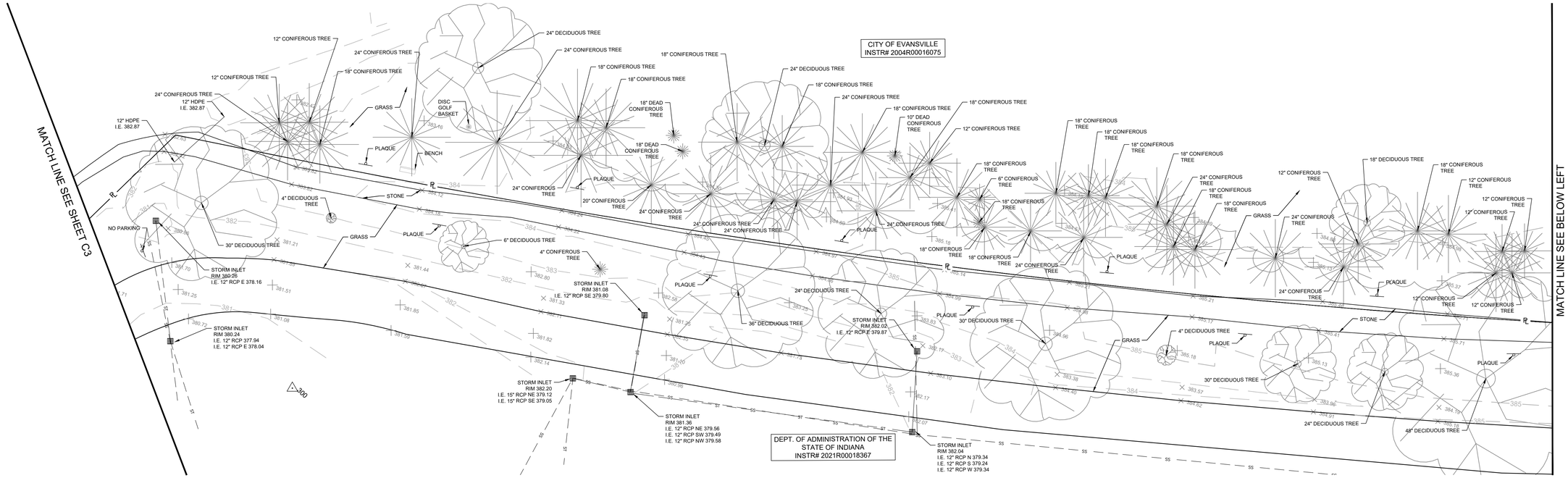
EXISTING SITE PLAN
SOUTH SECTION

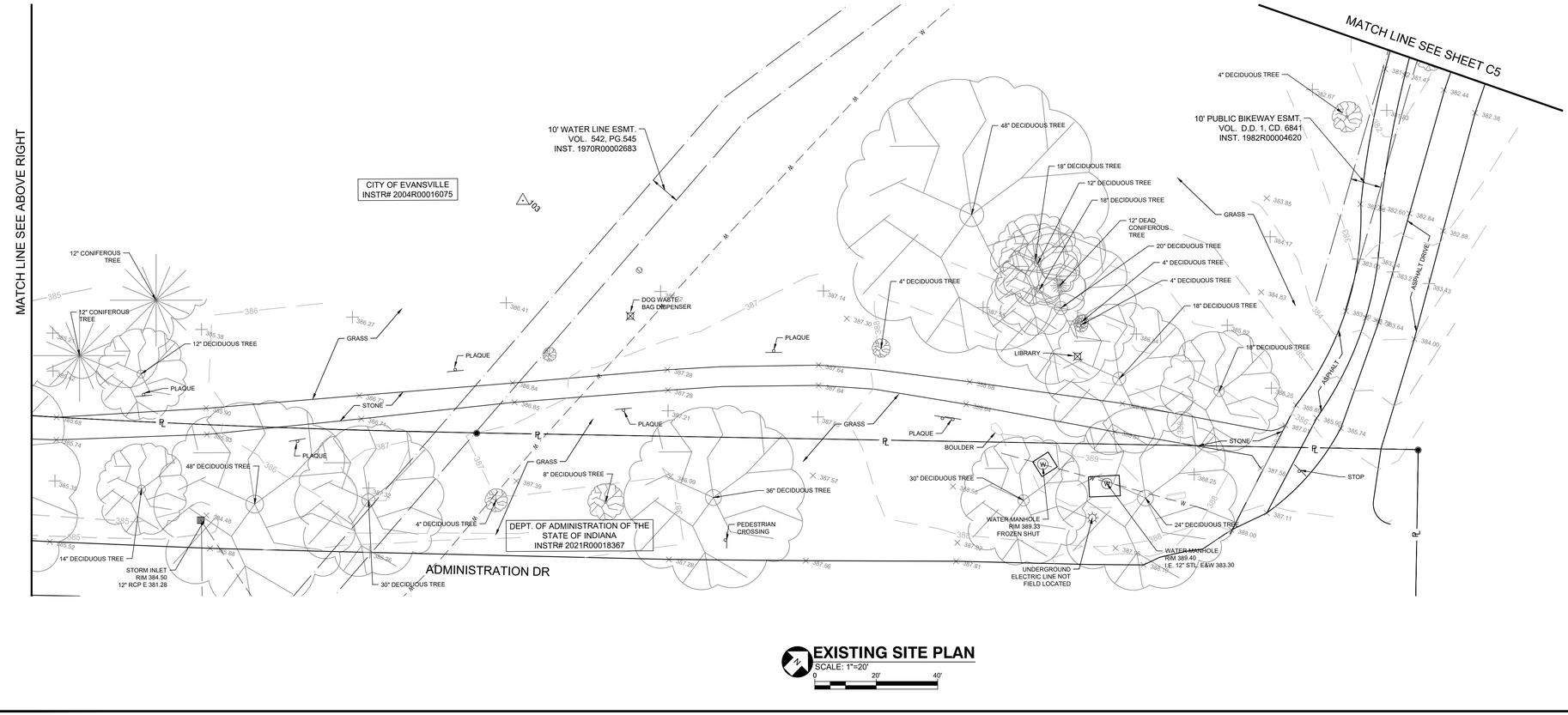
DRAWN BY:	DESIGNED BY:
RMY	
CHECKED BY:	DATE:
WRG	08/08/24

SCALE: 1"=20'

PROJECT NUMBER: 24210A

SHEET NO: C3
3 OF 12





ISSUED FOR USE
08/29/24

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REV	DATE	BY	ITEM
A	08/14/24	3ID	ISSUED FOR REVIEW
B	08/29/24	3ID	ISSUED FOR USE

NEXT LEVEL TRAILS 2024
EVANSVILLE PARKS DEPARTMENT
EVANSVILLE, INDIANA

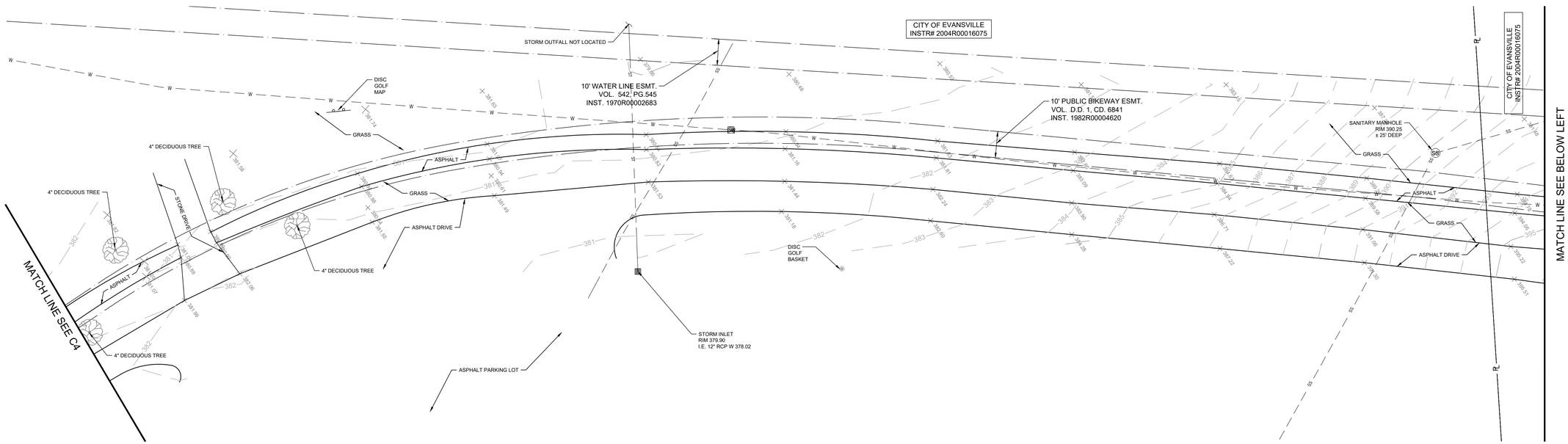
EXISTING SITE PLAN
SOUTH SECTION

DRAWN BY:	DESIGNED BY:
RMY	
CHECKED BY:	DATE:
WRG	08/08/24

SCALE: 1"=20'

PROJECT NUMBER: 24210A

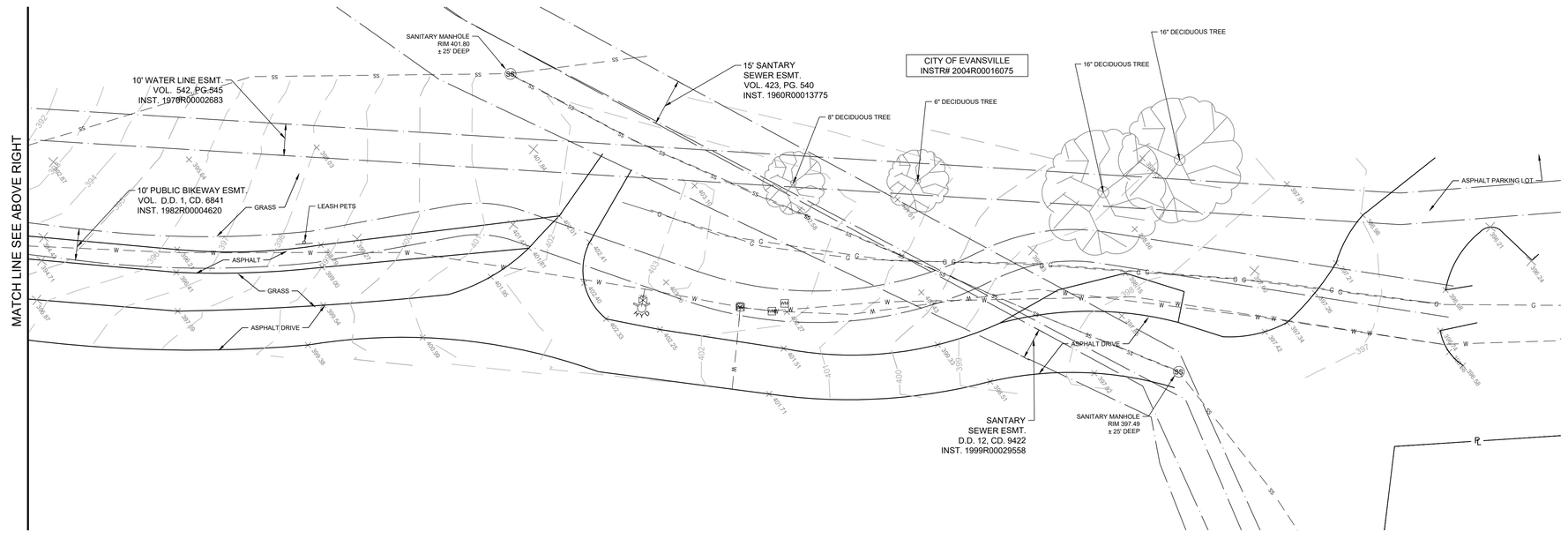
SHEET NO: C4
4 OF 12



EXISTING SITE PLAN

SCALE: 1"=20'

0 20' 40'



EXISTING SITE PLAN

SCALE: 1"=20'

0 20' 40'

ISSUED FOR USE
08/29/24

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REV	DATE	BY	ITEM
A	08/14/24	3ID	ISSUED FOR REVIEW
B	08/29/24	3ID	ISSUED FOR USE

NEXT LEVEL TRAILS 2024
EVANSVILLE PARKS DEPARTMENT
EVANSVILLE, INDIANA

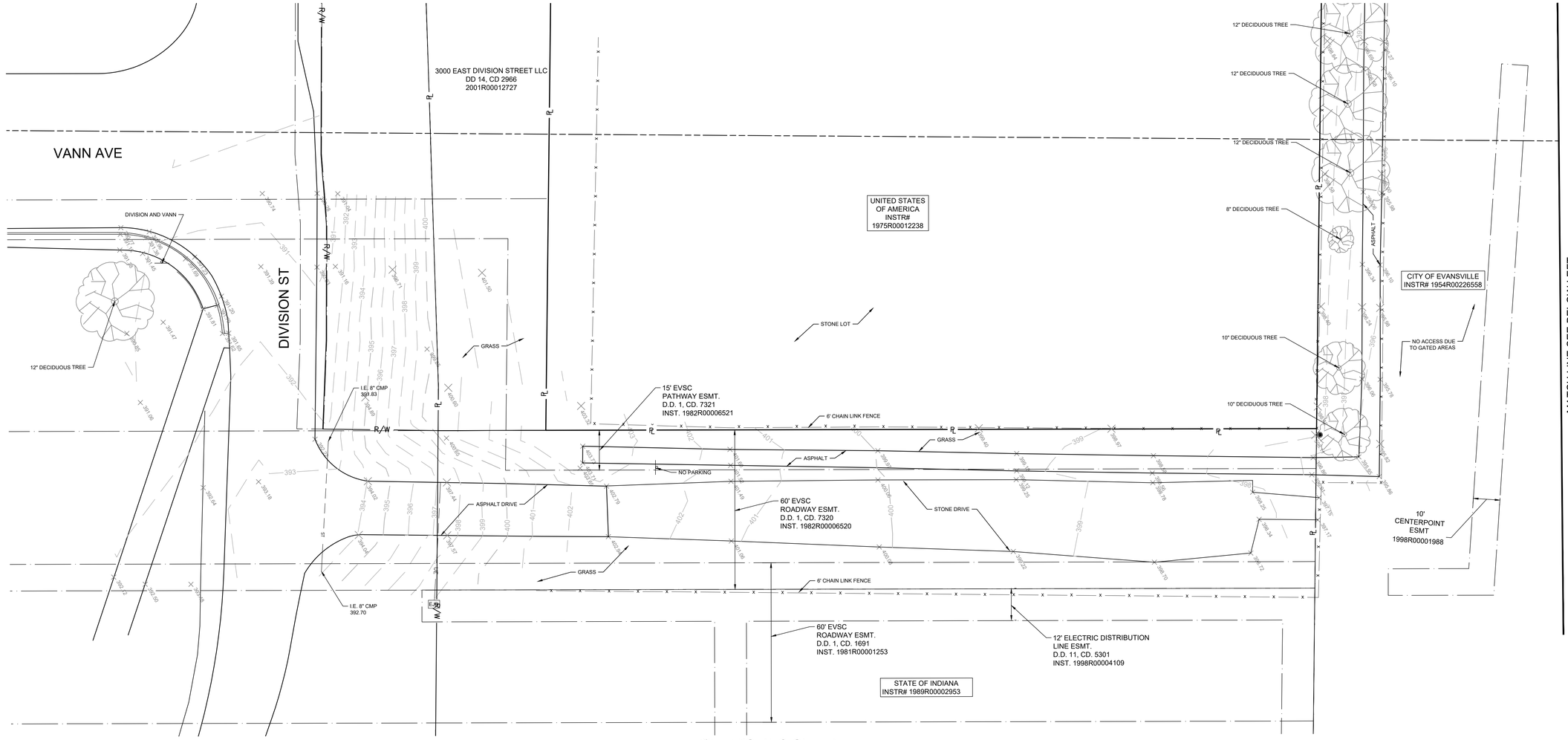
EXISTING SITE PLAN
SOUTH SECTION

DRAWN BY:	DESIGNED BY:
RMY	
CHECKED BY:	DATE:
WRG	08/08/24

SCALE: 1"=20'

PROJECT NUMBER: 24210A

SHEET NO: C5
5 OF 12



EXISTING SITE PLAN
SCALE: 1"=20'
0 20' 40'

EXISTING SITE PLAN
SCALE: 1"=20'
0 20' 40'

ISSUED FOR USE
08/29/24

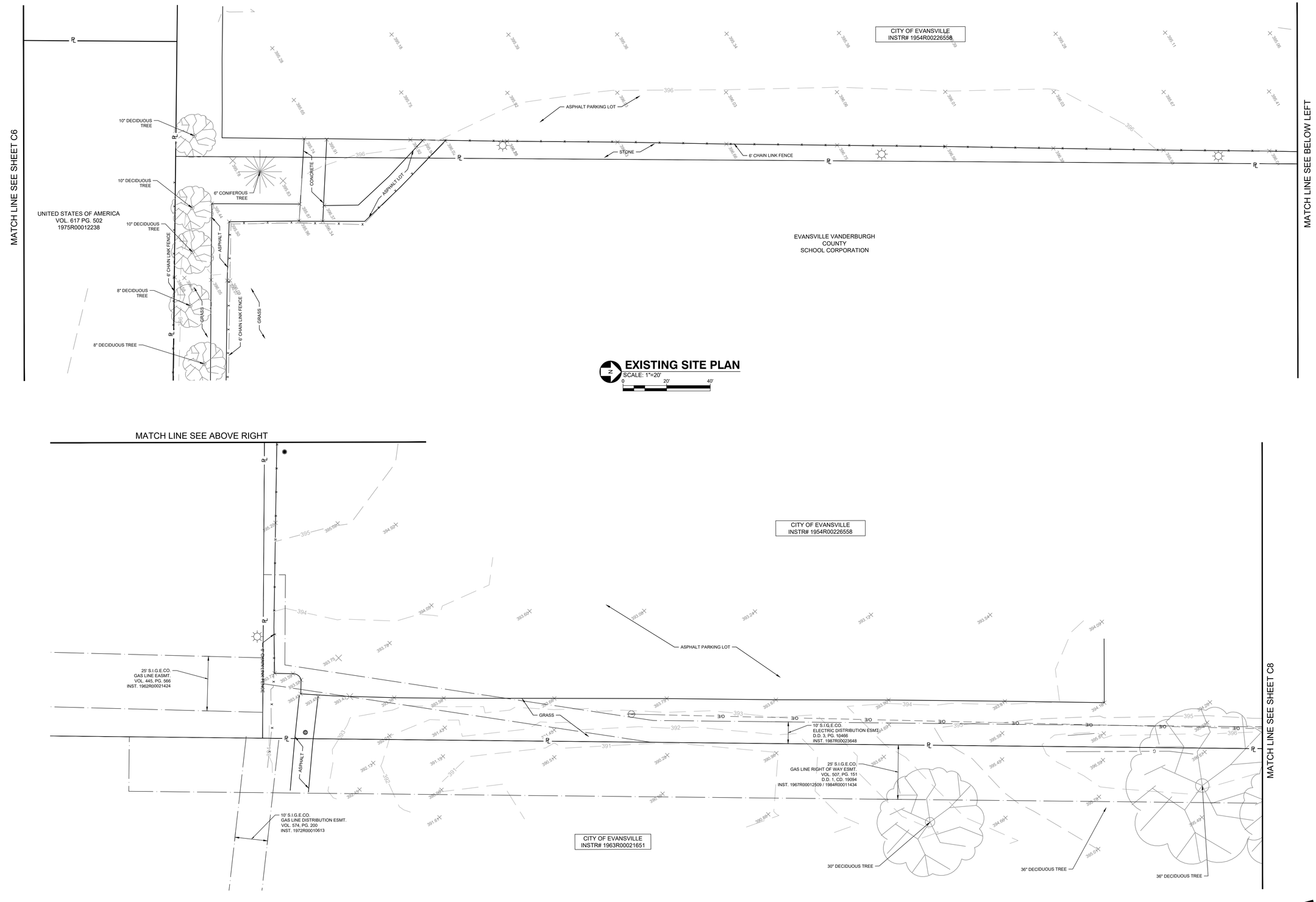
THREE i DESIGN
ENGINEERING + ARCHITECTURE
WWW.THREEIDESIGN.COM EVANSVILLE, IN 812-423-6800

REV	DATE	BY	ITEM
A	08/14/24	3ID	ISSUED FOR REVIEW
B	08/29/24	3ID	ISSUED FOR USE

NEXT LEVEL TRAILS 2024
EVANSVILLE PARKS DEPARTMENT
EVANSVILLE, INDIANA

EXISTING SITE PLAN
MIDDLE SECTION

DRAWN BY:	DESIGNED BY:
RMY	
CHECKED BY:	DATE:
WRG	08/08/24
SCALE:	
1"=20'	
PROJECT NUMBER:	
24210A	
SHEET NO:	
C6	
6 OF 12	



ISSUED FOR USE
08/29/24

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REV	ITEM	DATE	BY
A	ISSUED FOR REVIEW	08/14/24	SID
B	ISSUED FOR USE	08/29/24	SID

NEXT LEVEL TRAILS 2024
EVANSVILLE PARKS DEPARTMENT
EVANSVILLE, INDIANA

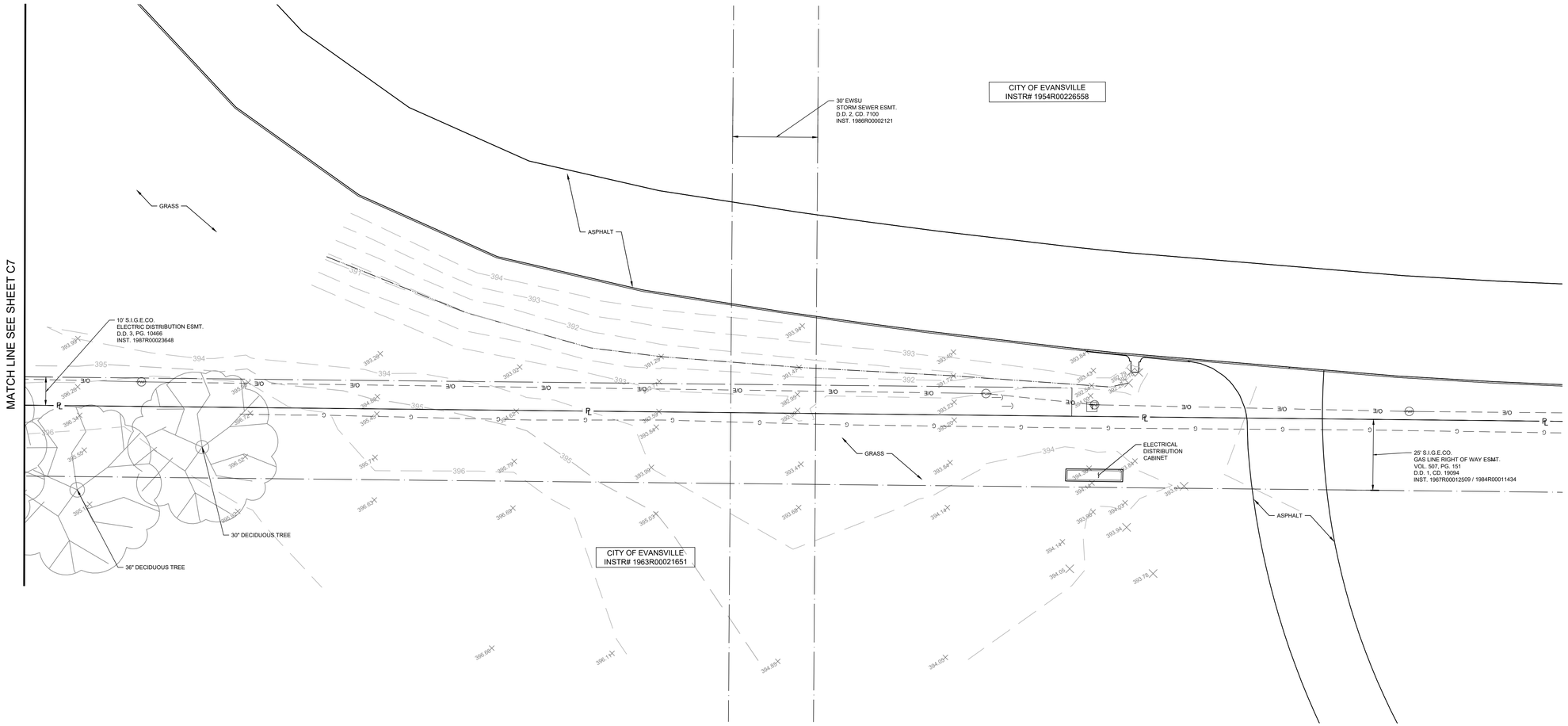
EXISTING SITE PLAN
MIDDLE SECTION

DRAWN BY:	DESIGNED BY:
RMY	
CHECKED BY:	DATE:
WRG	08/08/24

SCALE: 1"=20'

PROJECT NUMBER: 24210A

SHEET NO: C7



EXISTING SITE PLAN
SCALE: 1"=20'
0 20' 40'

ISSUED FOR USE
08/29/24

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REV	DATE	BY	ITEM
A	08/14/24	3ID	ISSUED FOR REVIEW
B	08/29/24	3ID	ISSUED FOR USE

NEXT LEVEL TRAILS 2024
EVANSVILLE PARKS DEPARTMENT
EVANSVILLE, INDIANA

EXISTING SITE PLAN
MIDDLE SECTION

DRAWN BY: RMY	DESIGNED BY:
CHECKED BY: WRG	DATE: 08/08/24
SCALE: 1"=20'	
PROJECT NUMBER: 24210A	
SHEET NO: C8	8 OF 12

MATCH LINE SEE C12

20" DECIDUOUS TREE
20" DECIDUOUS TREE
12" DECIDUOUS TREE
20" DECIDUOUS TREE
STOP
ROAD CLOSED GATE
STORM INLET
RIM 388.14
NO RIGHT TURN
36" DECIDUOUS TREE
32" DECIDUOUS TREE
SANITARY MANHOLE
RIM 385.60
I.E. 6" PVC E 383.60
I.E. 10" CCP W 383.60
6" CONIFEROUS TREE
18" DECIDUOUS TREE
18" CONIFEROUS TREE
24" DECIDUOUS TREE
18" DECIDUOUS TREE
ASPHALT PARKING
18" CONIFEROUS TREE
18" CONIFEROUS TREE
30" DECIDUOUS TREE
24" DECIDUOUS TREE
36" DECIDUOUS TREE
24" DECIDUOUS TREE
SHELTER
18" CONIFEROUS TREE
18" CONIFEROUS TREE
18" CONIFEROUS TREE
4" DECIDUOUS TREE
30" DECIDUOUS TREE
6" DECIDUOUS TREE
CONCRETE SIDEWALK
15" DECIDUOUS TREE LEANING TOWARD ROAD
STORM INLET
RIM 389.46
I.E.12" RCP SE 384.54
ADA PARKING
ADA PARKING
18" CONIFEROUS TREE
401
DO NOT ENTER
STORM INLET
RIM 389.60
I.E.12" RCP NW 384.75
I.E.12" RCP SE 384.73
6" DECIDUOUS TREE
15 MPH
ASPHALT PARKING
CONCRETE SWALE
STORM INLET
RIM 387.93
I.E. 12" RCP N 384.97
I.E. 12" RCP S 385.00
ASPHALT
ASPHALT
DO NOT ENTER
4' RAIL FENCE
CONCRETE SWALE
STORM INLET
RIM 387.98
I.E. 12" RCP N 385.00
ASPHALT PARKING
STORM INLET
RIM 389.50
I.E.12" RCP N 385.02
I.E.12" RCP SE 384.93
STORM INLET
RIM 389.44
I.E.12" NRCP N 384.65
I.E.12" RCP S 384.82
OT 14 DP 15
14" CONIFEROUS TREE
4' CHAIN LINK FENCE

MATCH LINE SEE SHEET C10

EXISTING SITE PLAN
SCALE: 1"=20'
0 20' 40'

ISSUED FOR USE
08/29/24

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REV	DATE	BY	ITEM
A	08/14/24	3ID	ISSUED FOR REVIEW
B	08/29/24	3ID	ISSUED FOR USE

NEXT LEVEL TRAILS 2024
EVANSVILLE PARKS DEPARTMENT
EVANSVILLE, INDIANA

EXISTING SITE PLAN
NORTH SECTION

DRAWN BY:	DESIGNED BY:
RMY	
CHECKED BY:	DATE:
WRG	08/08/24

SCALE: 1"=20'

PROJECT NUMBER: 24210A

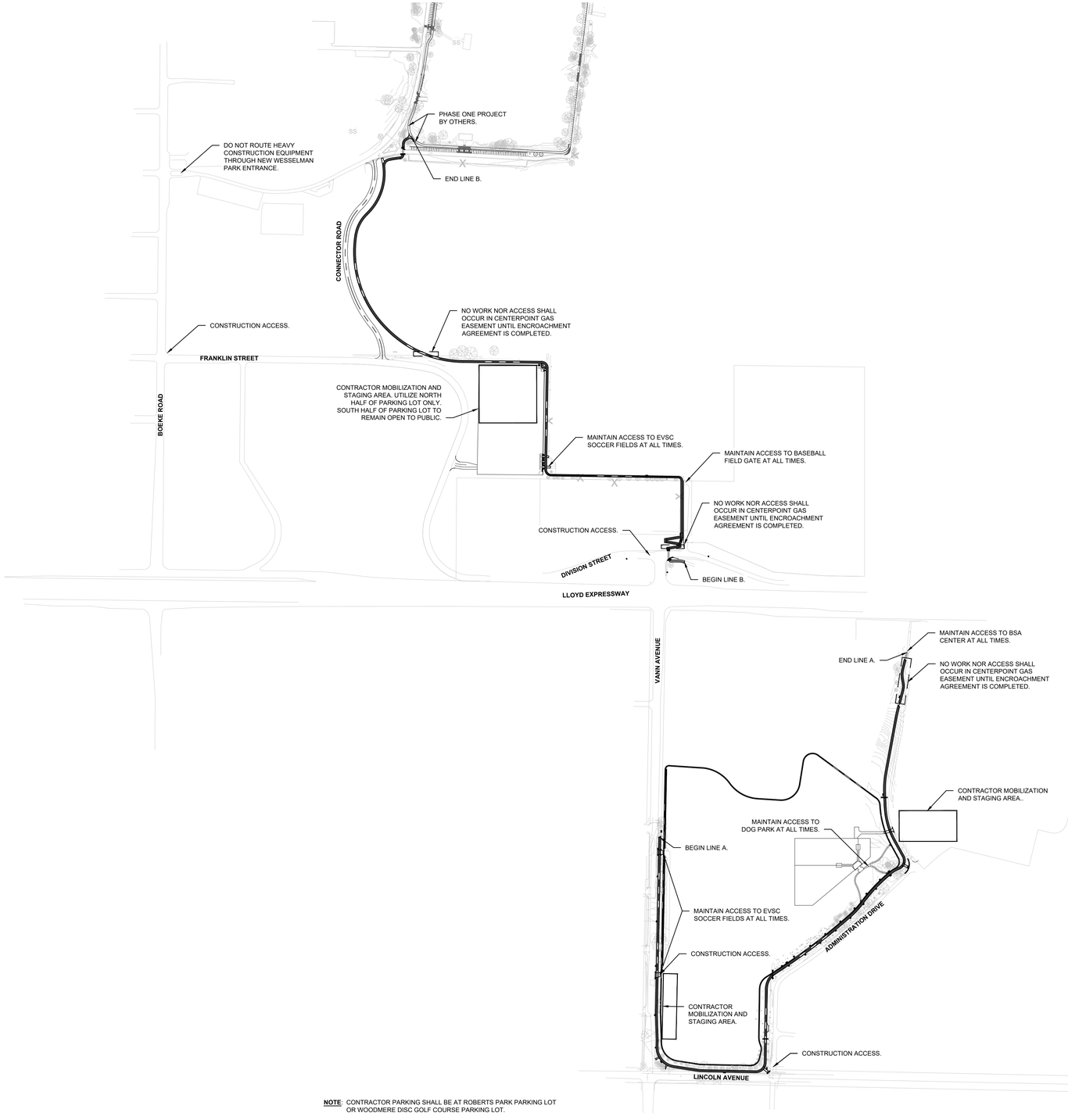
SHEET NO: C9
9 OF 12

SITE GENERAL NOTES:

1. ALL AREAS WHERE EXISTING OR NEWLY CONSTRUCTED PAVEMENTS ARE DAMAGED DURING CONSTRUCTION FROM HEAVY TRAFFIC OR EQUIPMENT, FUEL OIL, GASOLINE, ETC, BY THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIERS SHALL BE RECONSTRUCTED TO ITS ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY, OR LOCAL AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT. THIS RECONSTRUCTION SHALL TAKE PLACE AT THE END OF THE PROJECT CONSTRUCTION OR DURING THE SCHEDULED GRADING AND PAVING OF THOSE AREAS.
2. PROVIDE A SMOOTH ADA-COMPLIANT TRANSITION FROM NEWLY PAVED AREAS TO EXISTING PAVEMENTS AS NECESSARY. NOTIFY OWNER AND LANDSCAPE ARCHITECT IMMEDIATELY IF EXISTING PAVEMENTS ARE NON-COMPLIANT AT WORK LIMITS.
3. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, TOWN, OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY, AND LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES MENTIONED ABOVE UNLESS OTHERWISE NOTED BY THE CONTRACT OR SPECIFICATIONS.
5. REMOVAL OF THE EXISTING IMPROVEMENTS ARE AS NOTED ON THE PLANS. THE MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF IN A PROPER AND LEGAL MANNER PER FEDERAL, STATE, COUNTY, CITY, AND LOCAL LAWS AND ORDINANCES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AT THEIR EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY, AND LOCAL AGENCIES.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT EACH DAY AND REMOVE ALL MUD, DIRT, GRAVEL, AND LOOSE MATERIALS TRACKED, DUMPED, SPILLED, OR WINDBLOWN FROM THE SITE ONTO OTHER SITES, RIGHT-OF-WAYS, PUBLIC OR PRIVATE STREETS OR ROADS, DRIVEWAYS, YARDS, OR SIDEWALKS. THE CONTRACTOR MUST CLEAN OR PICK UP DAILY IF NECESSARY. THE CONTRACTOR SHALL REDUCE THE AIRBORNE DUST DURING THE ENTIRE CONSTRUCTION SCHEDULE. WATER MAY BE USED AS A REDUCER.
8. THE UTILITIES INDICATED ON THESE PLANS AND ON THE SURVEY MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THE SITE. THE LOCATIONS AND SIZE OF THESE UTILITIES ARE APPROXIMATE. THIS INFORMATION WAS GATHERED OR SUPPLIED FROM OTHERS AND USED BY THE ARCHITECT AND/OR THE ENGINEER AND MAY NOT BE ACTUAL. THE ARCHITECT AND/OR THE ENGINEER MAY NOT BE HELD LIABLE FOR ANY INCORRECT OR INCOMPLETE UTILITY INFORMATION INDICATED, IMPLIED, OR NOT INDICATED ON THESE PLANS.
9. ALL PAVEMENT PATCHING DUE TO UTILITIES: CONSTRUCTION OF CURBS OR DAMAGE TO EXISTING PAVEMENT DURING CONSTRUCTION SHALL BE PATCHED WITH A PAVEMENT SECTION WHICH MEETS OR EXCEEDS THE EXISTING SECTION BY THE CONTRACTOR PERFORMING THE WORK.
10. CONTRACTOR TO SET UP A PRE-CONSTRUCTION MEETING WITHIN 14 DAYS OF NOTICE TO PROCEED TO INCLUDE EFFECTED UTILITIES, ARCHITECT AND OWNER. IDENTIFY UTILITIES THAT MAY BE IN CONFLICT AND WILL NEED RELOCATED BY UTILITY OR CONTRACTOR.

BID ALTERNATES:

1. ALTERNATE ONE: DELETE ENTIRE SCOPE OF WORK FROM STATION 43+07.08 TO STATION 53+73.96.
2. ALTERNATE TWO: INSTALL SOFT SURFACE TRAIL RUNNING LOOP COMPLETE, INCLUDING TIMBER RAILING, AT STATE HOSPITAL GROUNDS.
3. ALTERNATE THREE: INSTALL CONCRETE STAIRS AND RAILINGS COMPLETE AT DIVISION STREET AND VANN AVENUE.
4. ALTERNATE FOUR: INSTALL SOLAR-POWERED RRFB COMPLETE AT DIVISION STREET AND VANN AVENUE.
5. ALTERNATE FIVE: INSTALL, MAINTAIN, AND WARRANTY ADDITIONAL TREE PLANTINGS COMPLETE. REFER TO PLANTING PLANS FOR TREE LOCATIONS.



NOTE: CONTRACTOR PARKING SHALL BE AT ROBERTS PARK PARKING LOT OR WOODMERE DISC GOLF COURSE PARKING LOT.

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 150' 300' 600'

SCALE: 1" = 300'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

OVERALL SITE PLAN

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

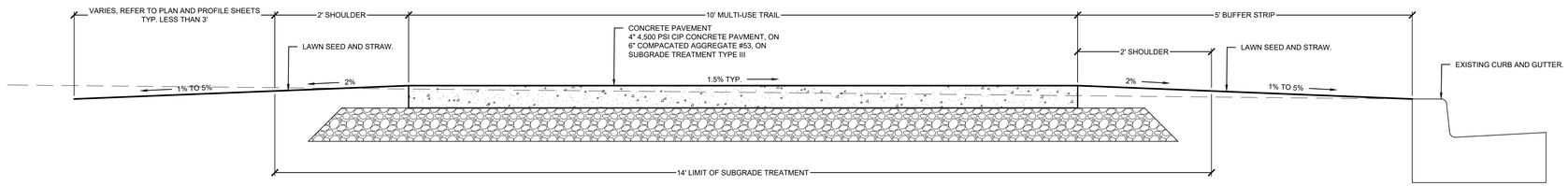
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

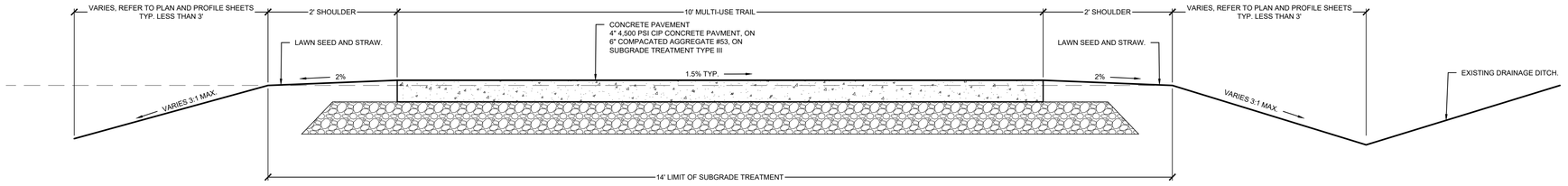
LA100

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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA100 - Overall Site Plan

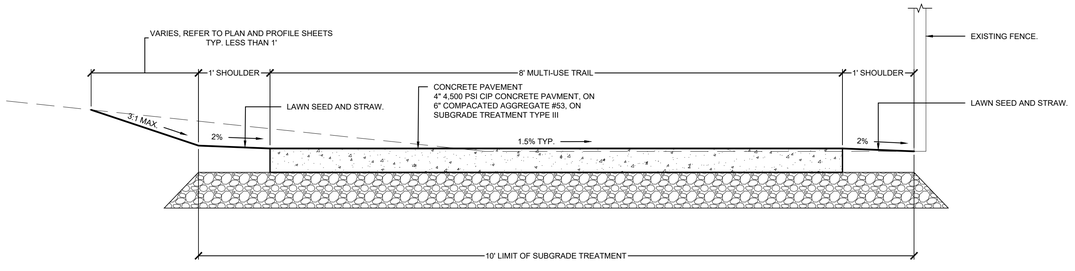


1 TYPICAL SECTION - 10' PATH - VANN AVE AND LINCOLN AVE
SCALE: 1" = 1'-0"



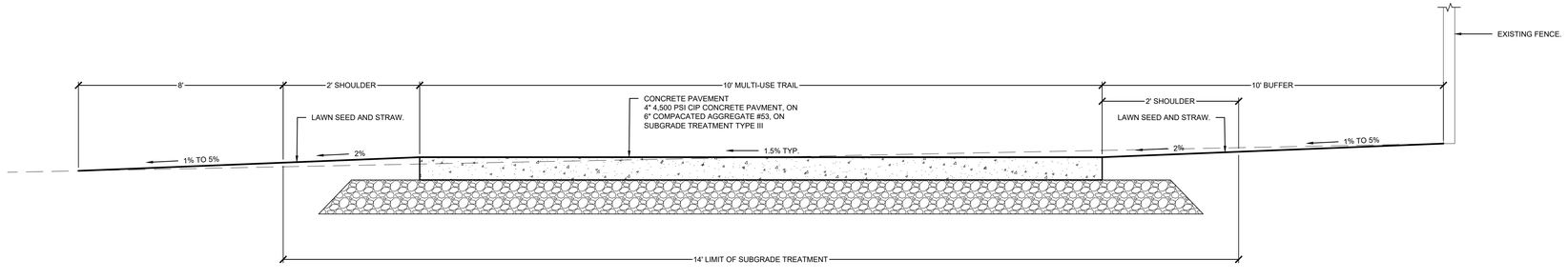
SLOPES GREATER THAN 6:1 REQUIRE
EROSION CONTROL MATERIALS.
REFER TO SPECIFICATIONS.

2 TYPICAL SECTION - 10' PATH - ADMINISTRATION DRIVE AND DIVISION STREET CONNECTOR
SCALE: 1" = 1'-0"



SLOPES GREATER THAN 6:1 REQUIRE
EROSION CONTROL MATERIALS.
REFER TO SPECIFICATIONS.

3 TYPICAL SECTION - 8' PATH - EVSC SPORTS FIELDS
SCALE: 1" = 1'-0"



4 TYPICAL SECTION - 10' PATH - ROBERTS PARK PARKING LOT
SCALE: 1" = 1'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA101 - Typical Sections

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES
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815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

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100 E Walnut Street
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Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

TYPICAL SECTIONS

CERTIFICATION:

PETER M. ANDRION II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

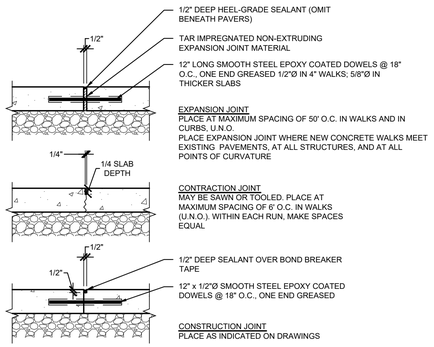
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

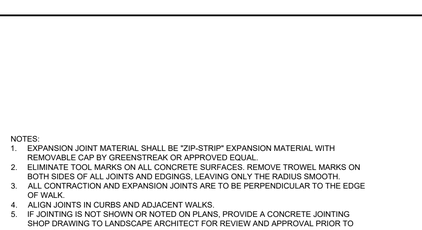
LA101

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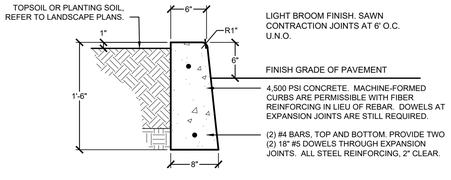
NOTES:
1. EXPANSION JOINT MATERIAL SHALL BE "ZIP-STRIP" EXPANSION MATERIAL WITH REMOVABLE CAP BY GREENSTREAK OR APPROVED EQUAL.
2. ELIMINATE TOOL MARKS ON ALL CONCRETE SURFACES. REMOVE TROWEL MARKS ON BOTH SIDES OF ALL JOINTS AND EDGINGS, LEAVING ONLY THE RADIUS SMOOTH.
3. ALL CONTRACTION AND EXPANSION JOINTS ARE TO BE PERPENDICULAR TO THE EDGE OF WALK.
4. ALIGN JOINTS IN CURBS AND ADJACENT WALKS.
5. IF JOINTING IS NOT SHOWN OR NOTED ON PLANS, PROVIDE A CONCRETE JOINTING SHOP DRAWING TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ANY POURING.



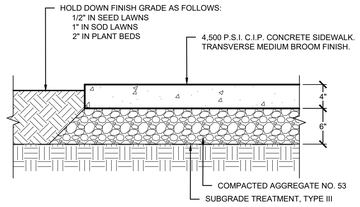
1 CONCRETE JOINTING DETAIL
SCALE: 1" = 1'-0"



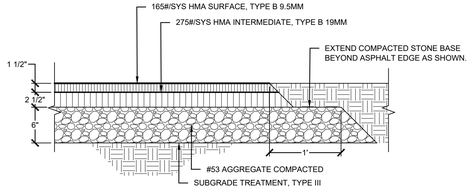
2 CURB AND GUTTER - 6", CONCRETE
SCALE: 1" = 1'-0"



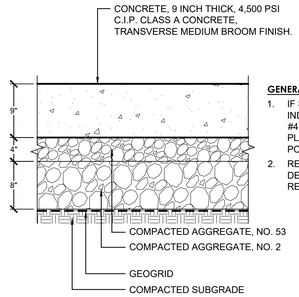
3 CONCRETE, BARRIER CURB
SCALE: 1" = 1'-0"



4 SIDEWALK, 4"
SCALE: 1" = 1'-0"

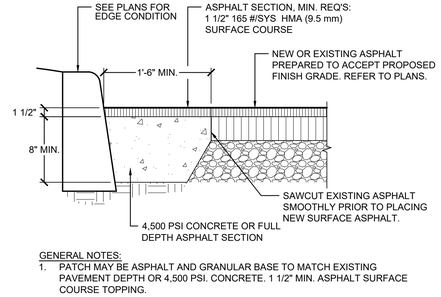


6 ASPHALT PAVEMENT - PATH
SCALE: 1" = 1'-0"



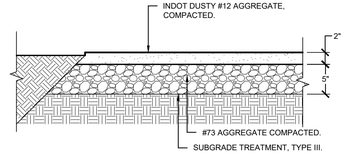
GENERAL NOTES:
1. IF SIDEWALK IS POURED INDEPENDENTLY OF THE DRIVE, #4 BARS @ 24" O.C. SHALL BE PLACED TO TIE THE ADJACENT POURS TOGETHER.
2. REFER TO "CONCRETE JOINTING" DETAIL FOR ADDITIONAL REQUIREMENTS

5 CONCRETE DRIVE, 9 INCH
SCALE: 1" = 1'-0"

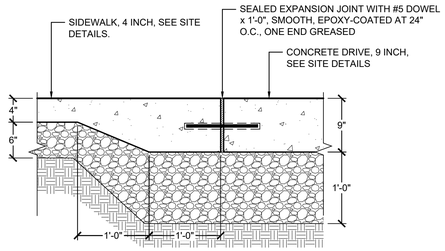


GENERAL NOTES:
1. PATCH MAY BE ASPHALT AND GRANULAR BASE TO MATCH EXISTING PAVEMENT DEPTH OR 4,500 PSI. CONCRETE. 1 1/2" MIN. ASPHALT SURFACE COURSE TOPPING.

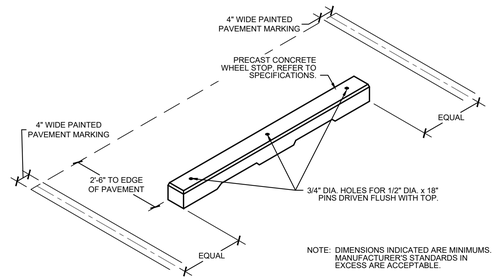
7 ASPHALT PATCH
SCALE: 1" = 1'-0"



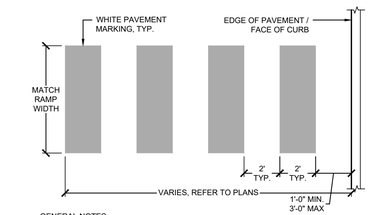
8 SOFT SURFACE TRAIL PAVEMENT
SCALE: 1" = 1'-0"



9 CONCRETE SIDEWALK, 6 INCH/CONCRETE DRIVE, 9 INCH
SCALE: 1" = 1'-0"

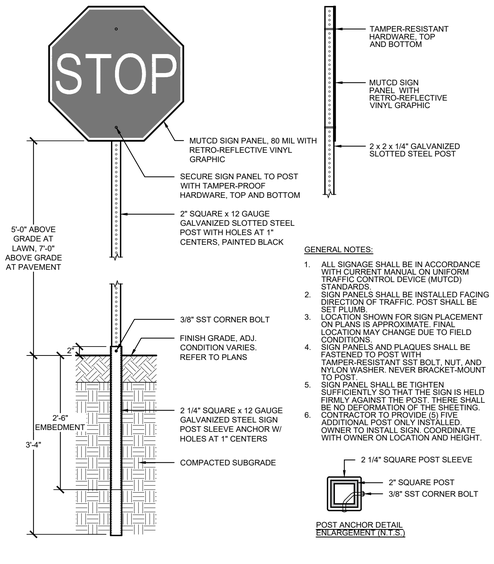


10 PARKING WHEEL STOP
SCALE: 1/2" = 1'-0"



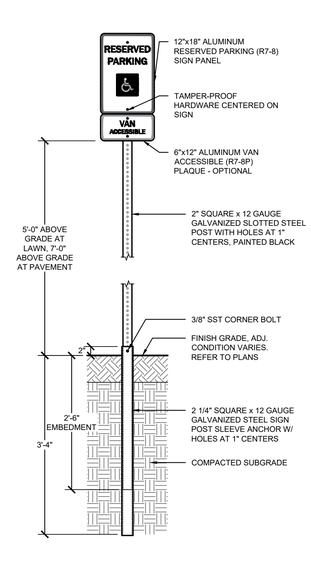
GENERAL NOTES:
1. CROSSWALK SHALL EXTEND ACROSS THE FULL WIDTH OF PAVEMENT. CENTER CROSSWALK STRIPING BETWEEN WIDTH OF PAVEMENT.
2. FACE LONGITUDINAL PAVEMENT MARKINGS PERPENDICULAR TO VEHICULAR TRAFFIC.
3. MARKINGS SHALL COMPLY WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS.
4. ALL MARKINGS SHALL BE PAINTED.

11 CROSSWALK LAYOUT
SCALE: 1/4" = 1'-0"



POST ANCHOR DETAIL
ENLARGEMENT (N.T.S.)

GENERAL NOTES:
1. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD) STANDARDS.
2. SIGN PANELS SHALL BE INSTALLED FACING DIRECTION OF TRAFFIC. POST SHALL BE SET PLUMB.
3. LOCATION SHOWN FOR SIGN PLACEMENT ON PLANS IS APPROXIMATE. FINAL LOCATION MAY CHANGE DUE TO FIELD CONDITIONS.
4. SIGN PANELS AND PLAQUES SHALL BE FASTENED TO POST WITH TAMPER-RESISTANT SST BOLT, NUT, AND NYLON WASHER. NEVER BRACKET-MOUNT TO POST.
5. SIGN PANEL SHALL BE TIGHTEN SUFFICIENTLY SO THAT THE SIGN IS HELD FIRMLY AGAINST THE POST. THERE SHALL BE NO DEFORMATION OF THE SHEETING.
6. CONTRACTOR TO PROVIDE (5) FIVE ADDITIONAL POST ONLY INSTALLED. OWNER TO INSTALL SIGN. COORDINATE WITH OWNER ON LOCATION AND HEIGHT.



12 REGULATION SIGN - TYPE 7
SCALE: 3/4" = 1'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA102 - Site Details

PREPARED BY:
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:
City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:
2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
BID DOCUMENTS

REVISIONS:

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DRAWING NAME:
SITE DETAILS

CERTIFICATION:
PETER M. ANDRIOT III REGISTERED No. 20800187 STATE OF INDIANA LANDSCAPE ARCHITECT

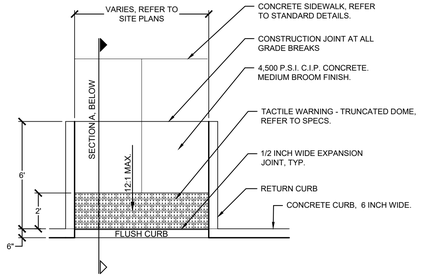
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

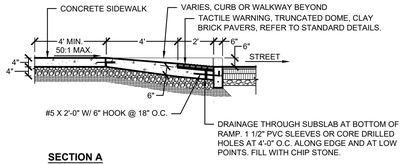
DRAWING:
LA102

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GENERAL NOTES:

1. THESE DIMENSIONS ARE BASED ON A 6" CURB HEIGHT, AND SHALL BE PROPORTIONALLY ADJUSTED FOR OTHER CURB HEIGHTS.
2. THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER LINE.
3. LANDING AREA AT THE TOP OF CURB RAMPS SHALL HAVE MAXIMUM CROSS SLOPE OF 50:1 IN ANY DIRECTION. WHERE SITE INFEASIBILITY PRECLUDES A LANDING SLOPE OF 50:1 IN ANY DIRECTION, THE SLOPE PERPENDICULAR TO THE CURB FACE SHALL NOT EXCEED 50:1.
4. IF SITE INFEASIBILITY PRECLUDES CONSTRUCTION AS SHOWN, CONTACT THE LANDSCAPE ARCHITECT.

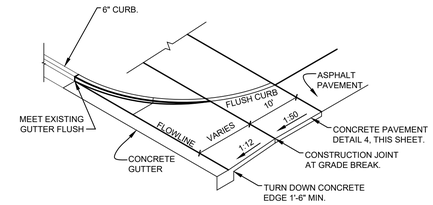




SECTION A

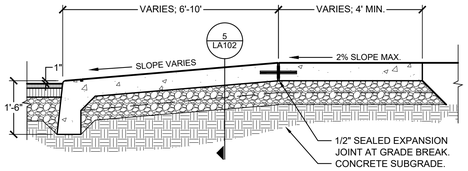
1 CONCRETE CURB RAMP, PERPENDICULAR AGAINST NON-WALKING SURFACE

SCALE: 1/4" = 1'-0"



3 CONCRETE PAVEMENT STREET APRON

SCALE: 1/8" = 1'-0"

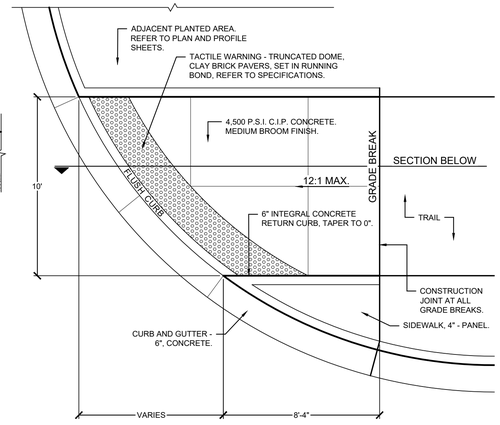


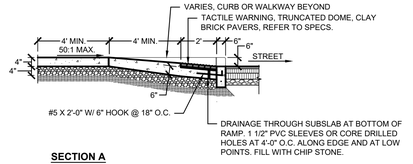
4 CONCRETE APRON AND ACCESSIBLE ROUTE

SCALE: 1/2" = 1'-0"

GENERAL NOTES:

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4. IF SITE INFEASIBILITY PRECLUDES CONSTRUCTION AS SHOWN, CONTACT THE LANDSCAPE ARCHITECT.

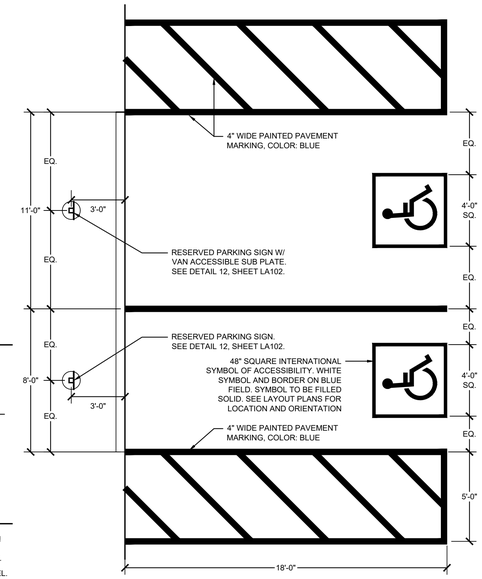




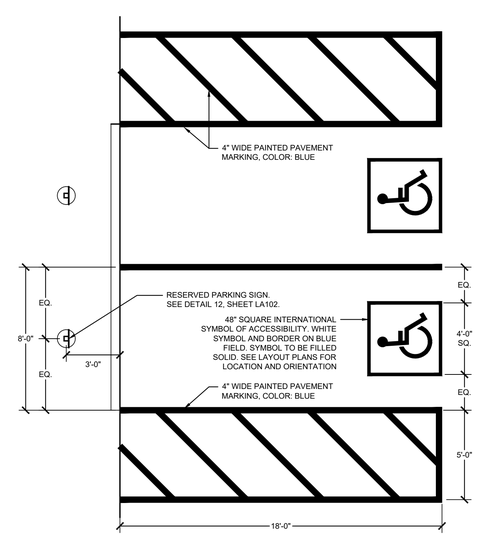
SECTION A

5 CONCRETE CURB RAMP, PERPENDICULAR, ONE WAY DIRECTIONAL WITH BUFFER

SCALE: 1/4" = 1'-0"



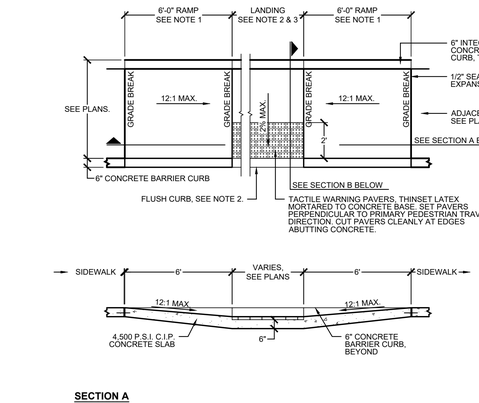
VAN ACCESSIBLE STALL



STANDARD ACCESSIBLE STALL

7 ADA PARKING STALL LAYOUT

SCALE: 1/4" = 1'-0"



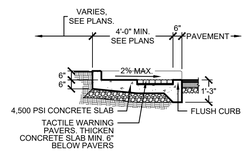
SECTION A

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4. IF SITE INFEASIBILITY PRECLUDES CONSTRUCTION AS SHOWN, CONTACT THE LANDSCAPE ARCHITECT.

TACTILE WARNING PAVERS:

WHITACRE GREER RED SUNSET 36 CLAY PAVER TO BE APPROVED BY SUBMITTAL. PAVERS SET HAND TIGHT AND SWEEP JOINTS FULL WITH MASONRY SAND.



SECTION B

2 CONCRETE CURB RAMP, PARALLEL AGAINST CURB

SCALE: 1/4" = 1'-0"

REFER TO "CONCRETE PAVING JOINTING " DETAIL FOR ADDITIONAL REQUIREMENTS.

STANDARD STALL

6 PARKING STALL LAYOUT

SCALE: 1/4" = 1'-0"

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SITE DETAILS

CERTIFICATION:

PETER M. ANDRIOT
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

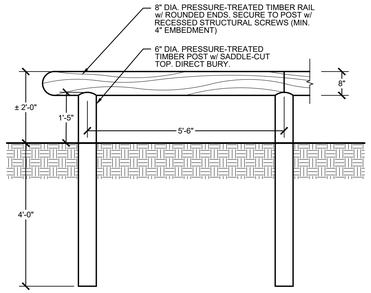
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DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

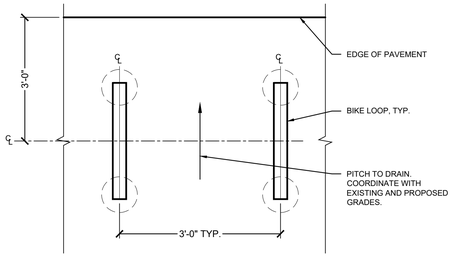
LA103

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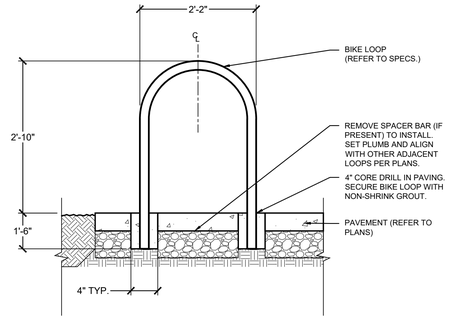
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1 WOOD RAILING
SCALE: 1/2" = 1'-0"



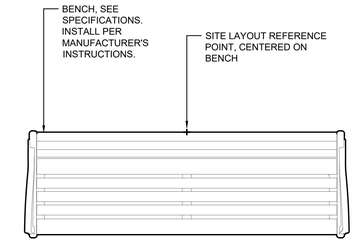
PLAN



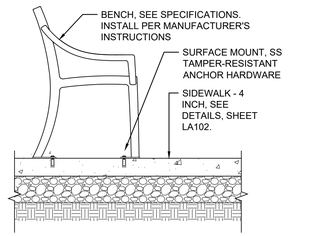
SECTION

GENERAL NOTE:
1. ALL BICYCLE RACK LOCATIONS TO BE FIELD APPROVED BY PROJECT ARCHITECT/ENGINEER.
2. ANCHORING HARDWARE SHALL BE SUPPLIED BY CONTRACTOR.

3 BICYCLE RACK
SCALE: 3/4" = 1'-0"



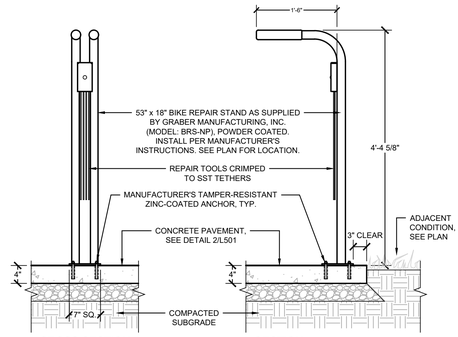
PLAN



SECTION

GENERAL NOTE:
1. ALL BENCH LOCATIONS TO BE FIELD APPROVED BY PROJECT ARCHITECT/ENGINEER.
2. ANCHORING HARDWARE SHALL BE SUPPLIED BY CONTRACTOR.

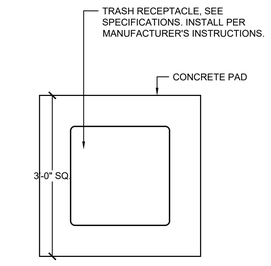
5 BENCH
SCALE: 3/4" = 1'-0"



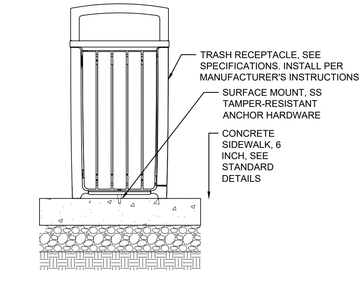
6 BIKE REPAIR STAND
SCALE: 3/4" = 1'-0"

WORK OF THIS DETAIL TO BE INCLUDED AS A PART OF ALTERNATE #3

2 RRFB - SOLAR POWER
SCALE: 1" = 1'-0"



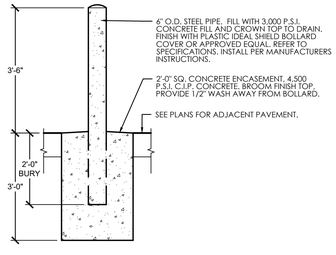
PLAN



SECTION

GENERAL NOTE:
1. ALL TRASH RECEPTACLE LOCATIONS TO BE FIELD APPROVED BY PROJECT ARCHITECT/ENGINEER.
2. ANCHORING HARDWARE SHALL BE SUPPLIED BY CONTRACTOR.

4 TRASH RECEPTACLE
SCALE: 3/4" = 1'-0"



7 PIPE BOLLARD
SCALE: 1/2" = 1'-0"

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SITE DETAILS

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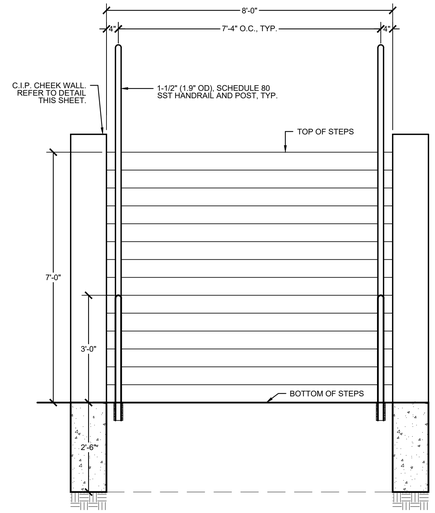
PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

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REVIEWED BY:	PA

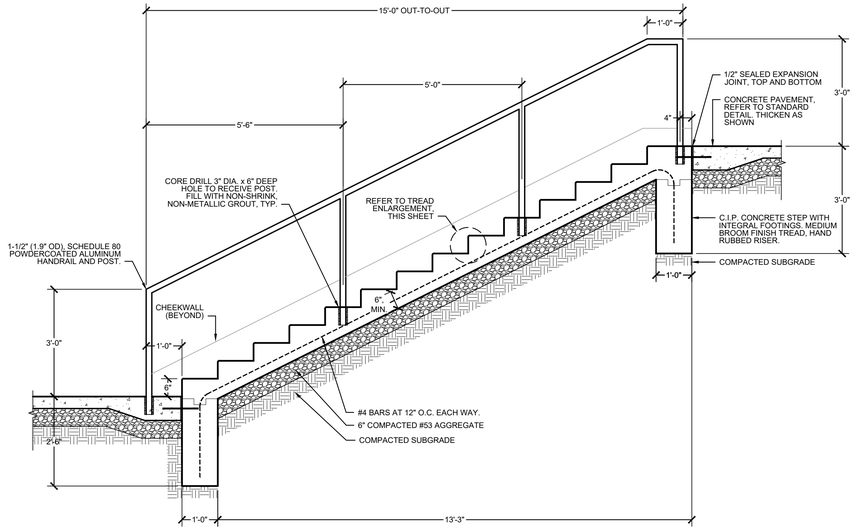
DRAWING:

LA104

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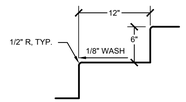
STEPS - ELEVATION



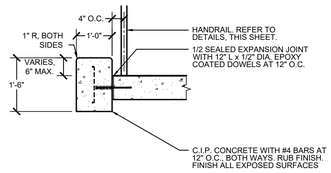
STEPS SECTION

STEP/ HANDRAIL GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING ALL COMPONENTS, CONNECTIONS, AND DIMENSIONS COMPLETE FOR REVIEW AND APPROVAL BY ARCHITECT BEFORE FABRICATION AND CONSTRUCTION BEGINS.
3. ALL HANDRAILS SHALL BE 304 SST, #4 BRUSHED FINISH
4. RAILINGS SHALL COMPLY WITH ADA GUIDELINES AND ALL APPLICABLE CODES.
5. SET HANDRAIL POSTS PLUMB, LEVEL, AND TRUE TO LINE.
6. ALL FASTENERS SHALL BE SST, UNLESS NOTED OTHERWISE.
7. ALL WELDS SHALL BE GROUND SMOOTH.
8. ALL RAILING SURFACES IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL RECEIVE ONE SHOP APPLIED COAT OF BITUMINOUS PAINT.
9. HANDRAILS SHALL BE ON BOTH SIDES OF THE STEPS, U.N.O
10. REFER TO TREAD ENLARGEMENT FOR STEP REINFORCING.
11. REFER TO SITE LAYOUT PLAN FOR LOCATIONS OF STEPS.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

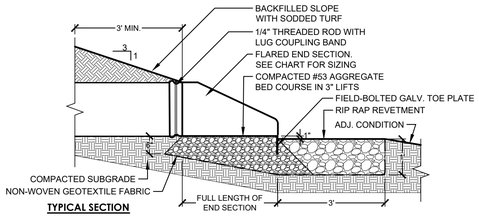


TREAD ENLARGEMENT
(Not To Scale)

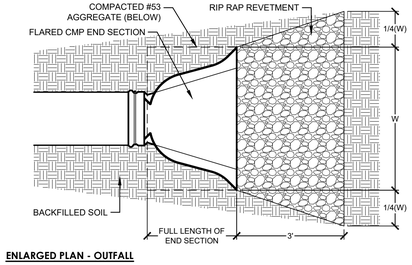


ADJACENT CHEEKWALL/ STEP SECTION

1 CONCRETE STEPS (14 RISERS)
SCALE: 1/2" = 1'-0"

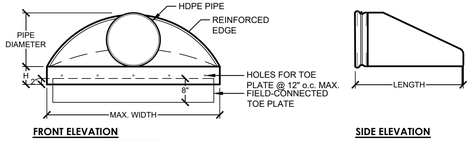


TYPICAL SECTION



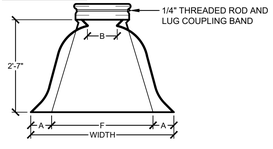
ENLARGED PLAN - OUTFALL

DIMENSIONS OF STEEL END SECTION FOR ROUND PIPE								
PIPE DIA. (in)	THICKNESS (in)	A (in)	B (in)	H (in)	F (in)	LENGTH ± 2 (in)	MAX. WIDTH (in)	SLOPE (in)
12	0.064 (16 GA)	5	7	6	22	21	44	2.250
18	0.064 (16 GA)	7	10	6	34	31	58	2.125
24	0.064 (16 GA)	9	13	6	46	41	72	2.125



FRONT ELEVATION

SIDE ELEVATION



PLAN

GENERAL NOTES:
1. DIMENSIONS OF END SECTION MAY VARY SLIGHTLY FROM THOSE SHOWN ON THE TABLE DUE TO DIFFERENT MANUFACTURERS' CONFIGURATIONS.
2. ALL HIGH DENSITY POLY ETHYLENE (HDPE) SHALL BE THE DIAMETER AND GAUGE SPECIFIED ON THE PLANS.
3. ALL HDPE SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS.
4. NO EQUIPMENT SHALL BE OPERATED ON THE SYSTEM UNTIL A MINIMUM OF 12 INCHES OF COVER HAS BEEN ESTABLISHED.
5. GALVANIZED TOE PLATE AS SHOWN IS REQUIRED ON END SECTIONS AND SHALL BE THE SAME THICKNESS AS END SECTIONS. TOE PLATE SHALL BE FIELD-BOLTED TO END SECTION WITH 3/8 INCH GALVANIZED BOLTS, NUTS AND WASHERS.

2 METAL FLARED END SECTION
SCALE: 1/2" = 1'-0"

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REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

SITE DETAILS

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

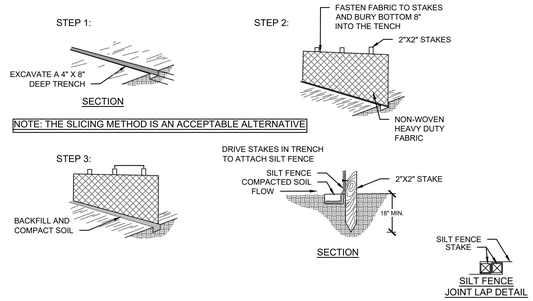
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA105

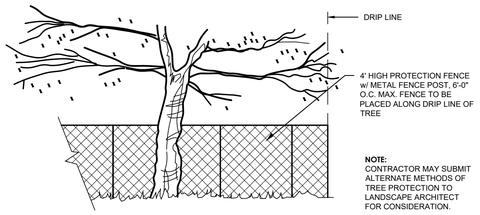
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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA102 - Site Details



MAINTENANCE REQUIREMENTS:
1. INSPECT SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
2. IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
4. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE AND STABILIZE.
6. SILT FENCE SHALL BE INSTALLED WITH MINIMUM HEIGHT OF 18".

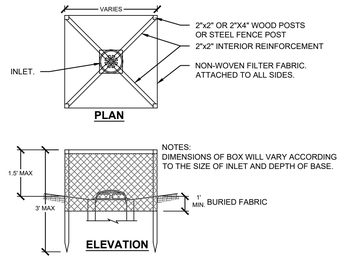
1 SILT FENCE BARRIER INSTALLATION
SCALE: 1/2" = 1'-0"



NOTE:
CONTRACTOR MAY SUBMIT ALTERNATE METHODS OF TREE PROTECTION TO LANDSCAPE ARCHITECT FOR CONSIDERATION.

DETERMINING THE CRITICAL ROOT ZONE
THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS THE ZONE IN WHICH THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF ROOTS OF MOST TREES WILL BE FOUND IN THE TOP 24 INCHES OF THE SOIL. OF THOSE, THE MAJORITY OF THE ROOTS THAT SUPPLY THE NUTRIENTS AND WATER TO THE TREE ARE FOUND IN THE UPPERMOST LAYER, JUST BELOW THE SOIL SURFACE. THE TOTAL AMOUNT OF A TREE'S ROOTS ARE GENERALLY PROPORTIONAL TO THE VOLUME OF THE TREE'S CANOPY. THEREFORE, IF THE ROOTS ONLY PENETRATE A THIN LAYER OF SOIL, THEN THE ROOTS MUST SPREAD FAR FROM THE TREE, BEYOND THE LIMITS OF THE CANOPY. GENERALLY ROOTS SPREAD OUT 2-3X THE HEIGHT OF THE TREE.

2 TEMPORARY TREE PROTECTION
SCALE: 1/2" = 1'-0"



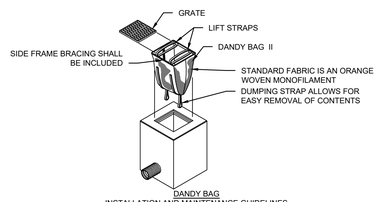
NOTES:
DIMENSIONS OF BOX WILL VARY ACCORDING TO THE SIZE OF INLET AND DEPTH OF BASE.

4 FABRIC DROP INLET PROTECTION
SCALE: 1/2" = 1'-0"

DANDY BAG II
INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY BAG II SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICE, INSET THE GRATE INTO THE INLET.

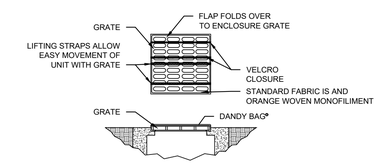
MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE DANDY BAG II. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.



DANDY BAG
INSTALLATION AND MAINTENANCE GUIDELINES

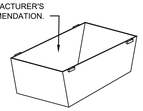
INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO LEATHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICE (DO NOT RELY ON LIFTING DEVICE TO SUPPORT ENTIRE WRIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

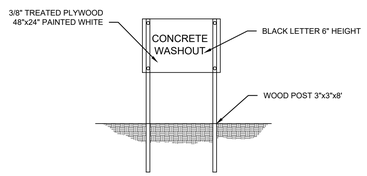


3 DANDY BAG INSTALLATION
SCALE: 1/2" = 1'-0"

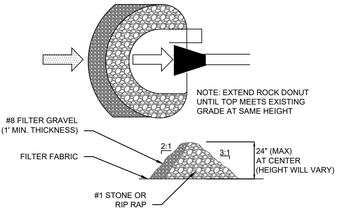
PROVIDE STURDY SELF-CONTAINED PREFABRICATED CONTAINMENT FACILITY LINED WITH 10 MIL. LINER FOR CONCRETE DISPOSAL. MANAGE SYSTEM PER MANUFACTURER'S RECOMMENDATION.



TEMPORARY FACILITY

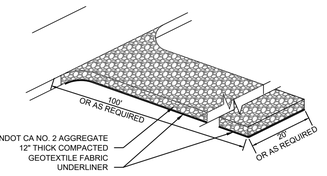


5 CONCRETE WASHOUT
SCALE: 1/2" = 1'-0"



MAINTENANCE REQUIREMENTS:
1. INSPECT STRUCTURE AFTER EACH STORM EVENT REMOVING SEDIMENT AND MAKING NEEDED REPAIRS IMMEDIATELY.
2. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE AND PROPERLY DISPOSE OF ANY UNSTABLE SEDIMENT AND CONSTRUCTION MATERIAL AND RE-STABILIZE.

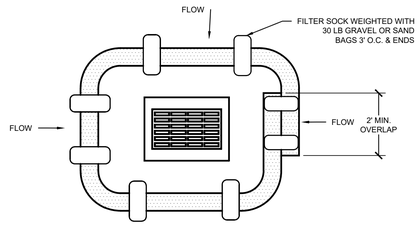
6 GRAVEL END SECTION PROTECTION
SCALE: 1/2" = 1'-0"

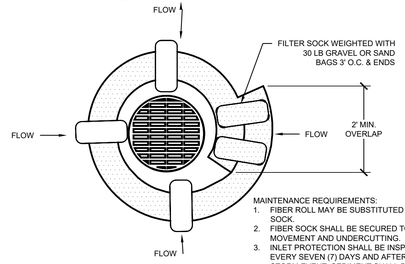


MAINTENANCE REQUIREMENTS:
1. INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY, AFTER STORM EVENTS, AND/OR HEAVY USE.
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOPDRESS WITH CLEAN STONE AS NEEDED.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSH ONLY IF WATER IS CONVEYED TO A SEDIMENT TRAP OR BASIN.
5. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

7 TEMPORARY CONSTRUCTION ENTRANCE
SCALE: 1/2" = 1'-0"

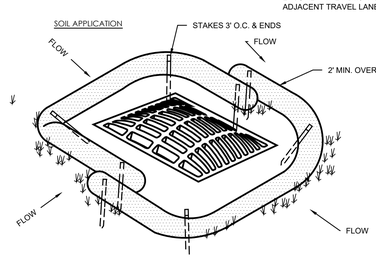
PAVEMENT APPLICATIONS





MAINTENANCE REQUIREMENTS:
1. FIBER ROLL MAY BE SUBSTITUTED FOR FILTER SOCK.
2. FIBER SOCK SHALL BE SECURED TO PREVENT MOVEMENT AND UNDERCUTTING.
3. INLET PROTECTION SHALL BE INSPECTED ONCE EVERY SEVEN (7) DAYS AND AFTER EACH STORM EVENT. SEDIMENT SHALL BE REMOVED WHEN 1/3 OF FILTER SOCK DEPTH.
4. INLET PROJECTION SHALL NOT BE REMOVED UNTIL THE SURROUNDING AREA IS STABILIZED.
5. INLET PROTECTION SHALL ONLY BE USED WHEN AREA CLOSED TO TRAFFIC. INLET PROTECTION SHALL BE MONITORED TO ENSURE WATER BACK IS NOT IMPACTING ADJACENT TRAVEL LANES/IMPROVEMENTS.

SOIL APPLICATION



8 INLET PROTECTION - FILTER SOCK
SCALE: 3/4" = 1'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA102 - Site Details

PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

SITE DETAILS

CERTIFICATION:

PETER M. ANDROT REGISTERED No. 20800187 STATE OF INDIANA LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA106

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Project Information

Project Name: Evansville Next Level Trails 2024 - Phase 2
Address: 3320 Lincoln Ave
City/Town: Evansville
County: Vanderburgh
Civil Township: Knight
Quarter: NW Section: 26 Township: 6S Range: 10W
Project Location: The Next Level Trail project will run adjacent to Vann Ave, Lincoln Ave, Administration Dr, looping through the Evansville State Hospital Grounds, and will run north of Division Dr. connecting with the northern Next Level Trail project.

Project Site Owner and Contact Information:

Company name (if applicable): City of Evansville, Department of Parks and Recreation
Contact Person: Danielle Crook
Title/Position: Director of Parks
Address: 1 NW Martin Luther King Jr Blvd.
City: Evansville State: IN Zip: 47708
Phone: (812)- 435-6141
Email (if applicable): parksdirector@evansville.in.gov

Plan Preparer and Contact Information:

Company name: Rundell Ernstberger Associates
Contact Person: Pete Andriot
Title/Position: Principal
Address: 618 E. Market St.
City: Indianapolis State: IN Zip: 46202
Phone: (502) 561-8676
Email (if applicable): pandriot@reasite.com

Project Narrative:

Evansville Next Level Trails 2024 is part of Next Level Trails application, the project consists of 10 ft wide multi-modal paved paths adjacent to Vann Ave, Lincoln Ave, Administration Dr, looping through the Evansville State Hospital Grounds, and will run north of Division Dr. connecting with the northern Next Level Trail project.

ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS (SECTION A)

A1 **Index of the location of required plan elements in the construction plan:**
This document represents the plan index. The content is organized according to the Indiana Department of Environmental Management (IDEM) standard plan review checklist and provides detailed information related to the stormwater pollution prevention for Evansville Next Level Trails 2024 Phase 2.

A2 **Vicinity map depicting the project sire location in relation to recognizable landmarks, towns, and roads**:
Refer to plan set cover sheet.

A3 **Narrative of the nature and purpose of the project:**
See above on this sheet.

A4 **Latitude and Longitude to the nearest (15) seconds:**
LAT: 37°58'11.68"N
LONG: 87°30'35.33"W

A5 **Legal description of project site:**
Denoted on Surveys C1.

A6 **11 x 17 plat showing building lot numbers/ boundaries and road layout/names:**
See area identification per plat on survey sheet C1.

A7 **Boundaries of the one hundred (100) year floodplains, floodway fringes, and floodways:**
Refer to floodplain map on this sheet.

A8 **Land use of adjacent properties:**
North: Eykamp Scout Center and youth baseball fields.
South: Lincoln Ave, Evansville State Hospital Softball Field, and residential area.
East : Woodmere Disc Golf Course and the Evansville State Hospital.
West: Residential Area and youth soccer fields.

A9 **Identification of a U.S. EPA approved or established TMDL:**
Project area is within Highland - Pigeon Creek TMDL. Established TMDLs for the watershed are Escherichia Coli (E. Coli) bacteria and nutrients and will address approximately 56 impairments (54 bacteria and 3 nutrient).

A10 **Name(s) of the receiving water(s):**
Site discharge ultimately ends up in Pigeon Creek. Discharge also routes through municipal storm sewer that is owned by the city of Evansville, refer to sheets C2-C9.

A11 **Identification of discharges to a water on the current current 303(d) list of impaired waters and the pollutant(s) for which it is impaired:**
Project site discharges to Pigeon Creek which is an impaired water listed on 303(d). Impairments identified are dissolved oxygen and nutrients.

A12 **Soils map of the predominate soil types:**
See soils map on this sheet.

A13 **Identification and location of all known wetlands, lakes, and water courses on our adjacent to the project site:**
To the East of the project site there appear to be 2 constructed ponds separated by Stockwell Dr. There are no known wetlands, lakes, or water courses adjacent to the site.

A14 **Identification of any other state or federal water quality permits or authorizations that are required for construction activities:**
There are no state or federal water quality permits or authorizations that are required for construction activities.

A15 **Identification and delineation of existing cover, including natural buffers:**
The project site runs adjacent to sections of Vann Ave, Lincoln Ave, and Administration Dr after which it runs through a grass field, crosses some lightly forested area, and reconnects with the section running adjacent to Vann Ave. Refer to Survey for more detail C2-C9.

A16 **Existing site topography at an interval appropriate to indicate drainage patterns:**
Refer to survey sheets C2-C9.

A17 **Location(s) where runoff enters project site:**
Run-off enters the project site from the North in the area surrounding the Eykamp Scout Center, South from Lincoln Ave, and East near Administration Dr.

A18 **Location(s) where run-off discharges from the project site prior to land disturbance:**
There is a low point where run-off discharges from the site Northwest towards the intersection of Vann Ave and E Lloyd Expressway.

A19 **Location of all existing structures on the project site**:
Refer to survey C2-C9 for locations of existing infrastructure.

A20 **Existing permanent retention or detention facilities, including manmade wetlands, designed for the purpose of stormwater management:**
There are no existing permanent retention or detention facilities within this project area. The two ponds separated by Administration Dr are located on the other side of a grade break, it does not appear any stormwater on site discharges to them.

A21 **Locations where stormwater may be directly discharged into ground water, such as abandoned wells, sinkholes, or karst features:**
No known abandoned wells, sinkholes, or karst features.

A22 **Size of the project area:**
4.38 Acres

A23 **Total expected land disturbance:**
4.38 Acres

A24 **Proposed final topography:**
Refer to sheets LA301-LA323.

A25 **Locations and Approximate boundaries of all disturbed areas:**
Refer to sheets LA201-LA221.

A26 **Locations, size, and dimensions of all proposed stormwater drainage systems:**
Refer to sheets LA301-LA323.

A27 **Locations of specific points where stormwater and non-stormwater discharges will leave site:**
Refer to sheets LA301-LA323.

A28 **Locations of all proposed site improvements:**
Refer to sheets LA301-LA323.

A29 **Location of all on-site and off-site soil stockpiles and borrow areas:**
Refer to sheet LA210, LA217, and LA218.

A30 **Construction support activities expected to be a part of the project:**
Refer to sheets LA202, LA209, and LA217 for concrete washout areas.

A31 **Location of any in-stream activities that are planned for the project:**
No in-stream activities are planned for the project.

ASSESSMENT OF EROSION AND SEDIMENT CONTROL/ PROJECT SITE MANAGEMENT (SECTION B)

B1 **Description of the potential pollutant generating sources and pollutants including all potential non-stormwater discharges:**
Potential pollutant sources during construction activities included disturbed soils and windborne dust, stored materials/fuels, concrete washout areas, concrete paving operations, asphalt paving operations, equipment used during construction, construction debris/trash, fertilizers, pesticides, and herbicides. Equipment and fuel will be stored in a central location and the contractor shall institute methods and procedures to prevent discharge of pollutants.

B2 **Stable Construction entrance locations and specifications**:
Three (3) construction entrances are anticipated for the project and shown on the cover sheet.
The contractor shall monitor the roadways for offsite tracking of soil/sediment. The contractor shall clean all offsite tracking from the roadways by sweeping and/or shoveling. Washing of offsite tracking shall not be allowed unless the water is captured by a bmp. The bmp shall slowly release water to allow for the suspended particles to settle out and remain onsite.

B3 **Specifications for temporary and permanent stabilization:**
The contractor shall temporary seed areas when construction activities are expected to cease for seven (7) day or more, and must be completed within fourteen (14) days. This includes all temporary stockpiles. Temporary seeding shall meet local seeding requirements. Additional information and guidelines are also listed in the Indiana stormwater quality handbook.

B4 **Sediment control measures for shallow concentrated flow areas:**
No measures are shown, the existing pipes will be removed. Contractor will install new improvements and the erosion control measures that are needed.

B5 **Sediment control measures for sheet flow areas**:
Silt Fences and temporary drop inlets are used as sediment control measures for sheet flow areas refer to sheets LA201-LA221.

B6 **Run-off control measures**:
Measures utilized on project site are temporary drop inlets, temporary construction ingress/egress, gravel end section protection, concrete washouts, and filter berms. Refer to sheets LA201-LA221.

B7 **Stormwater outlet protection locations and specifications:**
Refer to sheets LA201-LA221 for locations and LA102-LA106 for specifications.

B8 **Grade stabilization structure locations and specifications:**
Refer to sheets LA201-LA221 for locations and LA102-LA106 for specifications.

B9 **Dewatering applications and management methods:**
Given the site location and elevation dewatering is not anticipated. If dewatering is needed all water shall be directed through a bmp. A dewatering bag shall be utilized for all long duration dewatering operations.

B10 **Measures Utilized for work within waterbodies:**
No work will take place within waterbodies.

B11 **Maintenance guidelines for each proposed stormwater quality measure:**
See Erosion Control Notes on LA201-LA221. In addition sediment control devices shall follow manufacture recommendations and guidance provided in the Indiana stormwater quality handbook.

B12 **Planned construction sequence that describes implementation of stormwater quality measures in relation to land disturbance:**
See Erosion Control Sequence Notes on LA201-LA221.

B13 **Provisions for erosion and sediment control on individual residential building lots regulated under the proposed project:**
No residential lots on project site. All land in project area is stabilized other than proposed work.

B14 **Material handling and spill prevention and spill response plan meeting the requirements in 327 IAC 2-6.1:**
Anticipated construction materials onsite are equipment lubricants, fuels, pesticides, herbicides, fertilizers and debris. Small spills and leaks of these materials on non-paved areas shall be shoveled into containers for proper disposal. Fueling trucks/fuel stations shall be equipped with spill prevention kits for smaller fuel spills. All vehicular maintenance shall be performed in the same designated area throughout the construction time frame. If possible, vehicular maintenance shall be done off-site at facilities that are designed to handle any material spillage. This shall include fueling of vehicles whenever possible. The Evansville fire department (812) 435-6235 or 911, Indiana Department of Environmental Management (IDEM) office of emergency response (800) 233-7745, shall be notified immediately for larger spills or leaks. The national response center (800) 424-8802 shall be notified and provided with the following information: time of spill, location of spill, material, source of spill, approximate volume and length of spillage, weather conditions at time of spill, personnel present at time of spill, and all action taken for post-spill cleanup. Contractor shall contact a waste recovery agency immediately for removal of contaminates and coordination of monitoring the site during cleanup until all of the hazardous material has been removed. Contractor shall cooperate with IDEM during and after the spill to insure all required cleanup and filing reports are properly submitted. The owner shall be continually informed of any contamination concerns occurring on the site. The construction manager shall keep on site a list of qualified contractors for spill remediation. All site personnel, including maintenance employees, shall be made aware of proper spill prevention and remediation techniques. All materials used to absorb spills shall be properly disposed of in an approved manor with local and state laws. Do not flush spill materials with water unless directed to do so by a governing agency. It is important that all manufacturer's instructions be followed when using or applying all fertilizers, herbicides, and pesticides.

B15 **Material handling and storage procedures associated with construction activity:**
See additional Materials handling and storage on this sheet.

Material Handling and Spill Prevention

1.1 All fueling and servicing of vehicles on site will be conducted within the construction staging area. This area shall be contained with a row of staked straw bales around the perimeter. Secondary containment in the form of drip pans or drop cloths shall be used to contain any spills. The contractor shall maintain a supply of oil-absorbent material to clean up any small spills that may occur. Any spillage will be removed immediately. Used absorbent material shall be removed from the site and disposed of in accordance with the laws of the state of Indiana. Contaminated soils will be placed on heavy plastic and covered or placed into approved containers to prevent contact with storm water. All fuel tanks will be in the containment area. Oils, other vehicle fluids, paints, and solvents will be stored in the construction trailer. Any spill in excess of two gallons will be reported to a representative of the contractor.

1.2 If a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 cfr 117 or 40 cfr 302 occurs during a 24-hour period, the contractor will immediately notify the permittee who shall then do the following: notify the National Response Center (NRC) (800-424-8802) and the Indiana State Emergency Management Agency (317-232-3986); as well as the Evansville Fire Department (812) 435-6235. Also, the engineer will prepare a revision to this document to identify measures to prevent the reoccurrence of such releases.

1.3 Concrete trucks will wash out at the designated area as shown on the erosion control plan. The contractor shall take care to insure that no waste materials are discharged into the storm sewers or waters of the state. Each contractor is responsible to provide litter control for trash generated by his/her crew. All trash, including but not limited to, solid waste, paint cans, oil cans, used oil and filters will be contained and disposed of by the contractor in accordance with the laws and regulations of the state of Indiana and the city of Evansville.

1.4 The contractor shall furnish and maintain sanitary waste facilities for this project. The facilities shall be cleaned as necessary and the waste materials shall be disposed of in accordance with the laws and regulations of the state of Indiana and the city of Evansville.

ASSESSMENT OF POST-CONSTRUCTION (SECTION C)

C1 **Description of pollutants and their sources associated with the proposed land use:**
The proposed project is a multimodal trail. Pollution from a multimodal trail is expected to be trash, litter, rubber fragments, grit (sediment) from wearing of paved surface, pathogens, and animal waste.

C2 **Description of proposed post-construction stormwater measures:**
1. Inspect and maintain all erosion control measures as detailed in the Stormwater Pollution Prevention Measures Maintenance Requirement beginning immediately after installation and continuing until vegetation has been sufficiently established and all construction activities completed.
2. Remove all individual inlet protection devices, silt fences, etc. only after seeding and sufficient vegetative growth has been established in each area to a point where sediments/pollutants will not enter the waterways or storm sewer system.
3. Town staff shall inspect and maintain upon completion of project once contractor has been released.

C3 **Plan details for each stormwater measure:**
Refer to LA102-LA106.
Site and facility design for stormwater quality protection on this site employs a multi-level strategy consisting of:
1. Reducing post-project runoff.
2. Controlling sources of pollutants.
3. Reducing the amount of impervious areas within the developed site. Stormwater quality measures for reducing, eliminating or controlling pollutants (source controls) included in the project area:
   a. Reducing Runoff or direct runoff from impervious areas
   b. Permanent erosion control seeding and plantings
   c. Outlet protection and velocity dissipation devices
   d. Mulching
4. Maintenance Requirements
   a. Town Staff shall clean all trash from property and empty trash bins routinely.
   b. Town shall mow all grass areas.
   c. Areas of erosion shall be repaired and reseeded immediately.
   d. Permanent measures such as pipe outfall chutes shall be inspected and repaired as necessary.

C4 **Sequence describing stormwater measure implementation:**
Existing and proposed stormwater inlets shall be protected during construction to prevent sediment accumulation in the stormwater conveyance system. Inlet protection shall not be removed until the runoff contributing areas have been stabilized.

C5 **Maintenance guidelines for proposed post-construction stormwater measures:**
Park maintenance will maintain trash and ground cover.

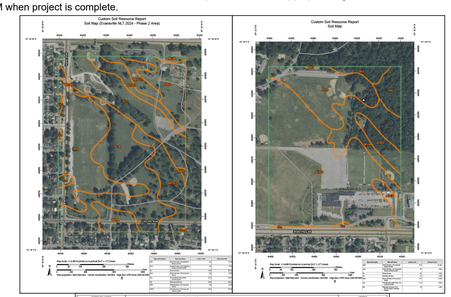
C6 **Entity that will be responsible for operation and maintenance of the post-construction stormwater measures**:
Evansville Parks and Recreation will be responsible for post-construction stormwater measures.

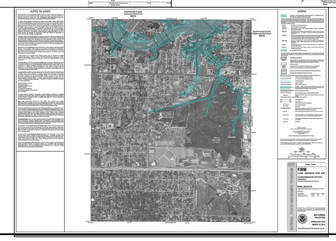
Erosion Control General Notes

1. The erosion and sediment control measures shown on the drawings are considered the minimum practices necessary for compliance with the NPDES general permit for stormwater discharges associated with construction activity as identified under articles 5 and 15 of title 327 of the Indiana administrative code. However, site conditions, construction methods, sequencing of work, and general practice may warrant variation and/or additions to the quantities and locations of measures as shown.
2. Erosion and sedimentation control devices shall be installed prior to the beginning of construction.
3. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased.
4. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized immediately after the utility installation.
5. Temporary soil stockpiles shall be constructed in a manner such that proper drainage of the site is not impeded. Stockpiles shall be contained within a perimeter control measure (i.e. silt fence, straw bale, or other barrier) to trap sediment. Stockpiles that will remain in excess of 6 months shall be temporarily seeded.
6. Erosion control and sedimentation control devices to be maintained during construction such that they function as intended. After completion of the project the contractor shall remove all devices where a good stand of grass or site improvements has been established and erosion is no longer evident. Removal of the remaining devices shall occur as other areas are established.
7. Erosion control measures shall be inspected every seven (7) days or after each rainfall occurrence that exceeds one-half (1/2) inch. Damage or ineffective devices shall be immediately repaired or replaced.
8. All areas disturbed by grading, excavation, and general construction shall be seeded, mulched, and restored in accordance with the specifications.
9. The contractor must take necessary action to minimize the tracking of mud onto paved roadways. The contractor shall daily remove mud/soil from the pavement, as may be required.
10. Unless otherwise shown, temporary control measures shall be removed upon satisfactory establishment of permanent vegetation.
11. Symbols for inlet protection measures and ditch checks are shown larger than actual size.
12. See sheet LA106 for proposed erosion and sediment control details.

General Construction Sequencing

1.1. Notify local review agency at least 48 hours in advance of commencing construction activities.
1.2. Flag or otherwise delineate and denote all construction limits.
1.3. Identify and protect all existing vegetation to remain.
1.4. Establish storage areas for potential pollutants such as fuels, oils, etc.
1.5. Establish parking areas for construction equipment, workers, visitors, etc. parking areas shall have temporary stone base to prevent vehicles from tracking mud, soil and sediment.
1.6. Arrange for the delivery of dumpsters and port-a-johns
1.7. Post required notices such as the NOI.
1.8. Contractor shall install a stone construction entrance or similar device prior to the start of earthwork as necessary to prevent soil from being tracked or washed into existing roadways.
1.9. Contractor shall install all required construction fences, silt fences, and inlet protections for existing inlets prior to the start of any earth moving or stripping operations.
1.10. Land alterations which strip the land of vegetation shall be done in a way that will minimize erosion. Whenever feasible, natural vegetation shall be retained and protected. As grading is done, install silt wraps, silt fences, and other runoff control measures at appropriate locations to keep sediment contained on site.
1.11. All disturbed areas shall be seeded and straw mulched, as shown on the plans, immediately after completion of grading activity. For larger projects, this seeding should be complete in phases as the different areas of the site are completed.
1.12. Temporary concrete washout area shall be installed after rough grading activities, but prior to any concrete activity occurs on site.
1.13. Permanent and final vegetation or structural stormwater pollution prevention devices shall be installed as soon as possible.
1.14. If construction activity in any area is to cease for more than seven days, the disturbed areas shall be temporarily seeded,
1.15. Contractor shall maintain stormwater pollution prevention measures and devices from the beginning of the construction until such a time that soil is stabilized.
1.16. Contractor shall remove and dispose of the temporary stormwater pollution prevention devices once the risk of onsite erosion and the siltation of the streets and storm sewers no longer exist.
1.17. These general procedures may not cover all situations: refer to stormwater pollution prevention plans for specific notes and additional details.
1.18. Stormwater pollution prevention is to comply with construction stormwater general permit.
1.19. The contractor shall control the pollution of air with dust and particulate matter by watering the site at lease three times a day, or more, depending on atmospheric conditions, during construction activities that would generate the pollution.
1.20. Once the entire site is stabilized coordinate final inspections with the appropriate agencies. File the notice of termination (not) with IDEM when project is complete.





PREPARED BY:
REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:
City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:
2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE
ADD 3	REA	ADDENDUM #3	11.11.2024

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DRAWING NAME:
SITE SWPPP - GENERAL NOTES

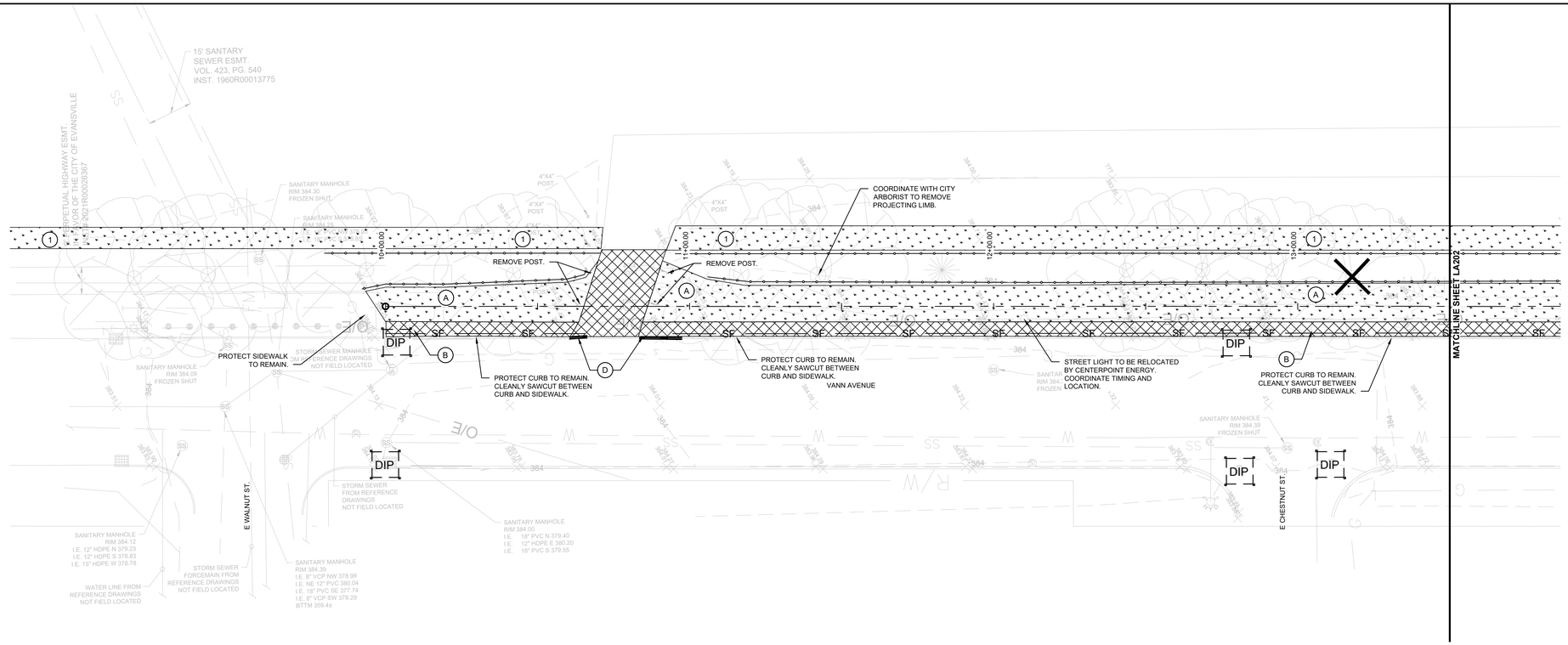
CERTIFICATION:
PETER M. ANDRIOT REGISTERED No. 20800187 STATE OF INDIANA LANDSCAPE ARCHITECT

REA PROJECT #: 2024-1766
DATE: 03/31/2025
DRAWN BY: AG
REVIEWED BY: PA

DRAWING:
LA200

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\sPhase 2\sheets\LA200 - SWPPP Details



DEMOLITION KEYNOTES:

- (A) CLEAR AND GRUB AREA TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- (B) FULL-DEPTH SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- (C) FULL-DEPTH SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
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ALTERNATE DEMOLITION KEYNOTES:

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DEMOLITION LEGEND:

- TREE REMOVAL.
- LIMITS OF DISTURBANCE.
- SILT FENCE.
- TREE PROTECTION FENCING.
- EXISTING UNDERGROUND ELECTRICAL.
- EXISTING OVERHEAD ELECTRICAL.
- EXISTING WATER.
- EXISTING STORM LINE.
- EXISTING UNDERGROUND COMMUNICATION LINE.
- EXISTING SANITARY SEWER.
- EXISTING GAS LINE.

DEMOLITION GENERAL NOTES:

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3. THE CONTRACTOR SHALL PROTECT ALL EXISTING ELEMENTS TO REMAIN DURING CONSTRUCTION.
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9. ALL WORK SHALL BE COORDINATED AND IN COMPLIANCE WITH STATE AND LOCAL MUNICIPALITIES AS WARRANTED.
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11. CONTRACTOR TO VERIFY SITE CONDITIONS IN FIELD PRIOR TO BIDDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH ANY CHANGES SINCE THE SURVEY WAS PROCURED. RUNDELL ERNSTBERGER ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF SURVEY INFORMATION.
12. CONTRACTOR SHALL ERECT CONSTRUCTION FENCING ALONG CONSTRUCTION LIMIT LINE. CONTRACTOR SHALL COORDINATE WITH OWNER ON THE LOCATION AND RELOCATION OF FENCING AND CONSTRUCTION ACCESS POINTS.
13. CONTRACTOR IS RESPONSIBLE TO PROVIDE AT THEIR EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY AND LOCAL AGENCIES.

EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION INGRESS/EGRESS - 12 INCHES OF INDOT CA NO. 2 AGGREGATE (20'W x 100'L) MIN. OR REUSABLE CONSTRUCTION MATS. REFER TO DETAILS ON SHEET LA106.
- DIP — TEMPORARY DROP INLET PROTECTION - REFER TO DETAILS ON SHEET LA106.
- GRAVEL END SECTION PROTECTION - REFER TO DETAILS ON SHEET LA106.
- CONCRETE WASHOUT - REFER TO DETAILS ON SHEET LA106.

NOTE: SYMBOLS ON PLANS NOT SHOWN TO SCALE.

MULCH APPLICATION GUIDELINES

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MULCH MATERIALS
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TACKIFIER MATERIALS
ASPHALT EMULSION TACKIFIER: ASPHALT EMULSION, ASTM D 977, GRADE SS-1, NONTOXIC AND FREE OF PLANT GROWTH OR GERMINATION INHIBITORS.
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MAINTENANCE
ADD NEW MULCH IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS SUFFICIENTLY TO NULLIFY ITS PURPOSE. ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT.

EROSION CONTROL NOTES

1. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE DRAWINGS ARE CONSIDERED THE MINIMUM PRACTICES NECESSARY FOR COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS IDENTIFIED UNDER SECTION 327-IAC-15-5 OF THE INDIANA ADMINISTRATIVE CODE. HOWEVER, SITE CONDITIONS, CONSTRUCTION METHODS, SEQUENCING OF WORK AND GENERAL PRACTICE MAY WARRANT VARIATION AND/OR ADDITIONS TO THE QUANTITIES AND LOCATIONS OF MEASURES AS SHOWN. MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. UNLESS OTHERWISE SHOWN, TEMPORARY CONTROL MEASURES SHALL BE REMOVED UPON SATISFACTORY ESTABLISHMENT OF PERMANENT VEGETATION.
3. REFER TO SHEET LA106 FOR DETAILS REFERENCED ON THIS SHEET.
4. PERIMETER CONTROL MEASURES (I.E. SILT FENCE AND FILTER SOCKS) SHALL BE INSTALLED PRIOR TO COMMENCING EARTHWORK ACTIVITIES.
5. IN ADDITION TO THE MAINTENANCE REQUIREMENTS IDENTIFIED FOR INDIVIDUAL MEASURES, ALL EROSION CONTROL MEASURES INSTALLED UNDER THIS PROJECT SHALL BE INSPECTED WEEKLY TO ENSURE THEY ARE FUNCTIONING PROPERLY. MEASURES FOUND TO BE DEFICIENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY THEREAFTER.
6. SYMBOLS FOR INLET PROTECTION MEASURES AND DITCH CHECKS ARE SHOWN LARGER THAN ACTUAL SIZE.
7. DISTURBED AREAS AND STOCKPILES THAT ARE TO REMAIN IDLE FOR MORE THAN 15 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.
8. REFER TO PLANTING PLAN SHEETS FOR SEEDING AND PLANTING DETAILS.

EROSION CONTROL SEQUENCE NOTES

1. INSTALL INITIAL PERIMETER PRACTICES, INCLUDING PERIMETER SILT FENCE AND INLET PROTECTION PRACTICES FOR EXISTING STORM STRUCTURES.
2. INSTALL OUTLET CONTROL STRUCTURES, PIPING, AND EROSION CONTROL MEASURES.
3. BEGIN MASS EARTHWORK.
4. INSTALL STORM SEWER SYSTEMS. INSTALL INLET PROTECTION AS INLETS ARE INSTALLED.
5. COMPLETE MASS GRADING.
6. INSTALL UTILITIES.
7. INSTALL STONE BASE FOR CONCRETE AS SOON AS GRADE IS ESTABLISHED.
8. INSTALL ROADS, CURBS, PAVEMENT AND FINISHED BACKFILL. SEED RIGHT-OF-WAYS AND OTHER DISTURBED AREAS NOT PREVIOUSLY SEEDED.
9. APPLY TOPSOIL AS REQUIRED.
10. REMOVE TEMPORARY EROSION CONTROL PRACTICES AFTER VEGETATION IS ESTABLISHED AND PROJECT SITE IS PERMANENTLY STABILIZED.
11. MAINTAIN EROSION AND SEDIMENT PRACTICES THROUGHOUT THE DURATION OF THE PROJECT.

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA201 - Demolition Plan

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

CERTIFICATION:

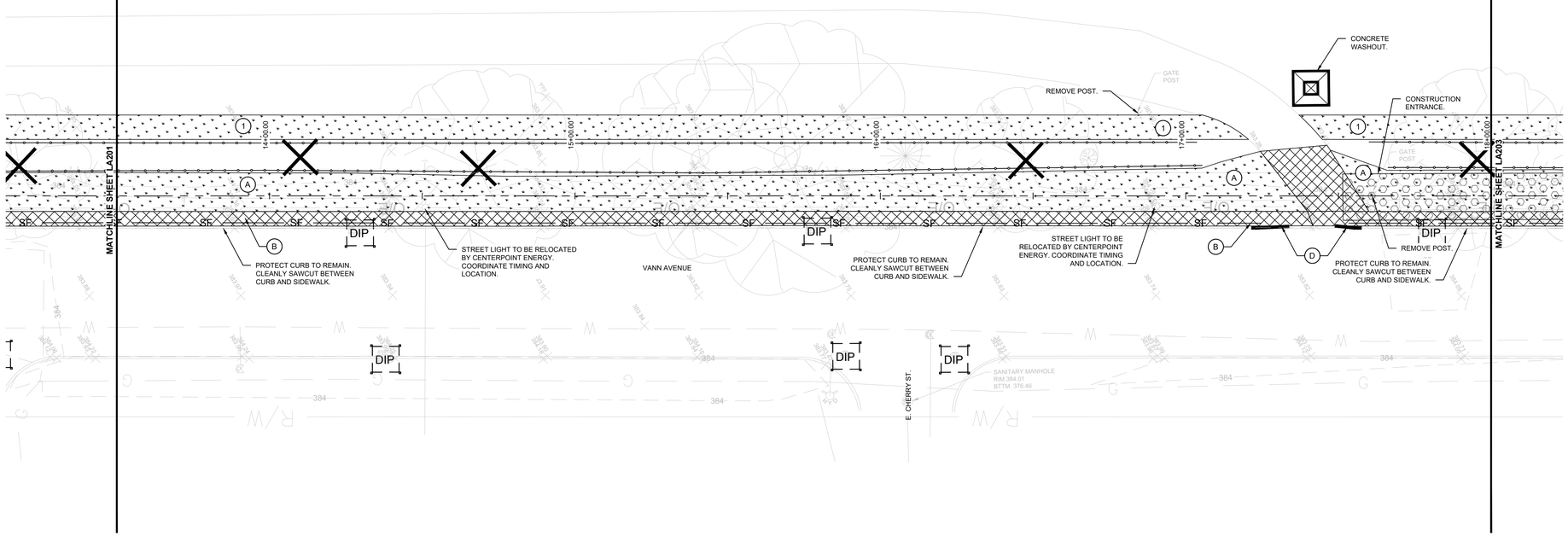
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA201

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EROSION CONTROL NOTES

1. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE DRAWINGS ARE CONSIDERED THE MINIMUM PRACTICES NECESSARY FOR COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS IDENTIFIED UNDER SECTION 327-IAC-15-5 OF THE INDIANA ADMINISTRATIVE CODE. HOWEVER, SITE CONDITIONS, CONSTRUCTION METHODS, SEQUENCING OF WORK AND GENERAL PRACTICE MAY WARRANT VARIATION AND/OR ADDITIONS TO THE QUANTITIES AND LOCATIONS OF MEASURES AS SHOWN. MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
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6. INSTALL UTILITIES.
7. INSTALL STONE BASE FOR CONCRETE AS SOON AS GRADE IS ESTABLISHED.
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10. REMOVE TEMPORARY EROSION CONTROL PRACTICES AFTER VEGETATION IS ESTABLISHED AND PROJECT SITE IS PERMANENTLY STABILIZED.
11. MAINTAIN EROSION AND SEDIMENT PRACTICES THROUGHOUT THE DURATION OF THE PROJECT.

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA201 - Demolition Plan

PREPARED BY:
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:
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100 E Walnut Street
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Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'

SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

CERTIFICATION:

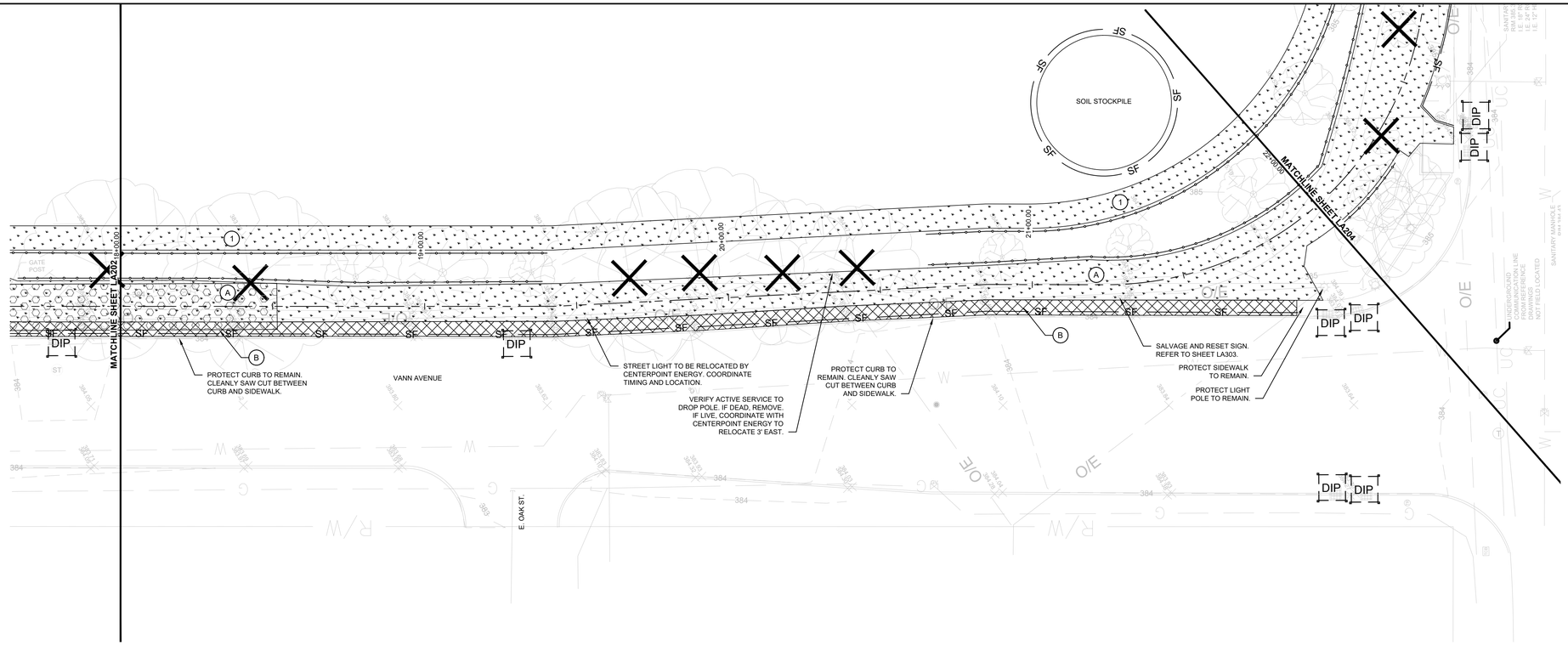
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA202

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DEMOLITION KEYNOTES:

- A — CLEAR AND GRUB AREA TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- B — FULL-DEPTH SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- C — FULL-DEPTH SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- D — FULL-DEPTH SAW CUT EXISTING CONCRETE BARRIER CURB AS NECESSARY TO INSTALL NEW IMPROVEMENTS.
- E — FULL-DEPTH SAW CUT EXISTING CONCRETE CURB AND GUTTER AS NECESSARY TO INSTALL NEW IMPROVEMENTS.

ALTERNATE DEMOLITION KEYNOTES:

- 1 — CLEAR AND GRUB AREA TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.

DEMOLITION LEGEND:

- TREE REMOVAL.
- LIMITS OF DISTURBANCE.
- SILT FENCE.
- TREE PROTECTION FENCING.
- EXISTING UNDERGROUND ELECTRICAL.
- EXISTING OVERHEAD ELECTRICAL.
- EXISTING WATER.
- EXISTING STORM LINE.
- EXISTING UNDERGROUND COMMUNICATION LINE.
- EXISTING SANITARY SEWER.
- EXISTING GAS LINE.

DEMOLITION GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR THE STAGING AND REMOVAL OF ALL DEMOLITION ITEMS.
2. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE OWNER & LANDSCAPE ARCHITECT ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS SHOWN ON THESE PLANS AND ACTUAL FIELD CONDITIONS.
3. THE CONTRACTOR SHALL PROTECT ALL EXISTING ELEMENTS TO REMAIN DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY TO EXISTING SITE ELEMENTS THAT ARE TO REMAIN.
5. THE CONTRACTOR SHALL SMOOTHLY SAW CUT EXISTING PAVEMENTS TO BE REMOVED FROM PAVEMENTS TO REMAIN. REFER TO PLANS FOR SAW CUT LOCATIONS RELATING TO EXISTING JOINTING.
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9. ALL WORK SHALL BE COORDINATED AND IN COMPLIANCE WITH STATE AND LOCAL MUNICIPALITIES AS WARRANTED.
10. EROSION CONTROL SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBANCE, INCLUDING PAVEMENT REMOVAL. EROSION CONTROL MEASURES (I.E.: SILT FENCING AND SEDIMENT CONTROL) SHALL BE PROVIDED BY THE CONTRACTOR PER THE SPECIFICATIONS. REFER TO DEMOLITION PLANS AND PLAN AND PROFILES, DETAILS, & SPECS.
11. CONTRACTOR TO VERIFY SITE CONDITIONS IN FIELD PRIOR TO BIDDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH ANY CHANGES SINCE THE SURVEY WAS PROCURED. RUNDELL ERNSTBERGER ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF SURVEY INFORMATION.
12. CONTRACTOR SHALL ERECT CONSTRUCTION FENCING ALONG CONSTRUCTION LIMIT LINE. CONTRACTOR SHALL COORDINATE WITH OWNER ON THE LOCATION AND RELOCATION OF FENCING AND CONSTRUCTION ACCESS POINTS.
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EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION INGRESS/EGRESS - 12 INCHES OF INDOT CA NO. 2 AGGREGATE (20'W x 100'L) MIN. OR REUSABLE CONSTRUCTION MATS. REFER TO DETAILS ON SHEET LA106.
- DIP — TEMPORARY DROP INLET PROTECTION - REFER TO DETAILS ON SHEET LA106.
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MULCH MATERIALS
STRAW MULCH: PROVIDE AIR DRY, CLEAN, MILDEW AND SEED FREE, SALT HAY OR THRESHED STRAW OF WHEAT, RYE, OATS OR BARLEY.
FIBER MULCH: BIODEGRADABLE DYED WOOD CELLULOSE FIBER MULCH, NONTOXIC, FREE OF PLANT GROWTH OR GERMINATION INHIBITORS, WITH MAXIMUM MOISTURE CONTENT OF 15 PERCENT AND A PH RANGE OF 4.5 TO 6.5

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ASPHALT EMULSION TACKIFIER: ASPHALT EMULSION, ASTM D 977, GRADE SS-1, NONTOXIC AND FREE OF PLANT GROWTH OR GERMINATION INHIBITORS.
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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA201 - Demolition Plan

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815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
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City of Evansville Parks and Recreation
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Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH — SCALE: 1" = 20' (0', 10', 20', 40')

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

CERTIFICATION:

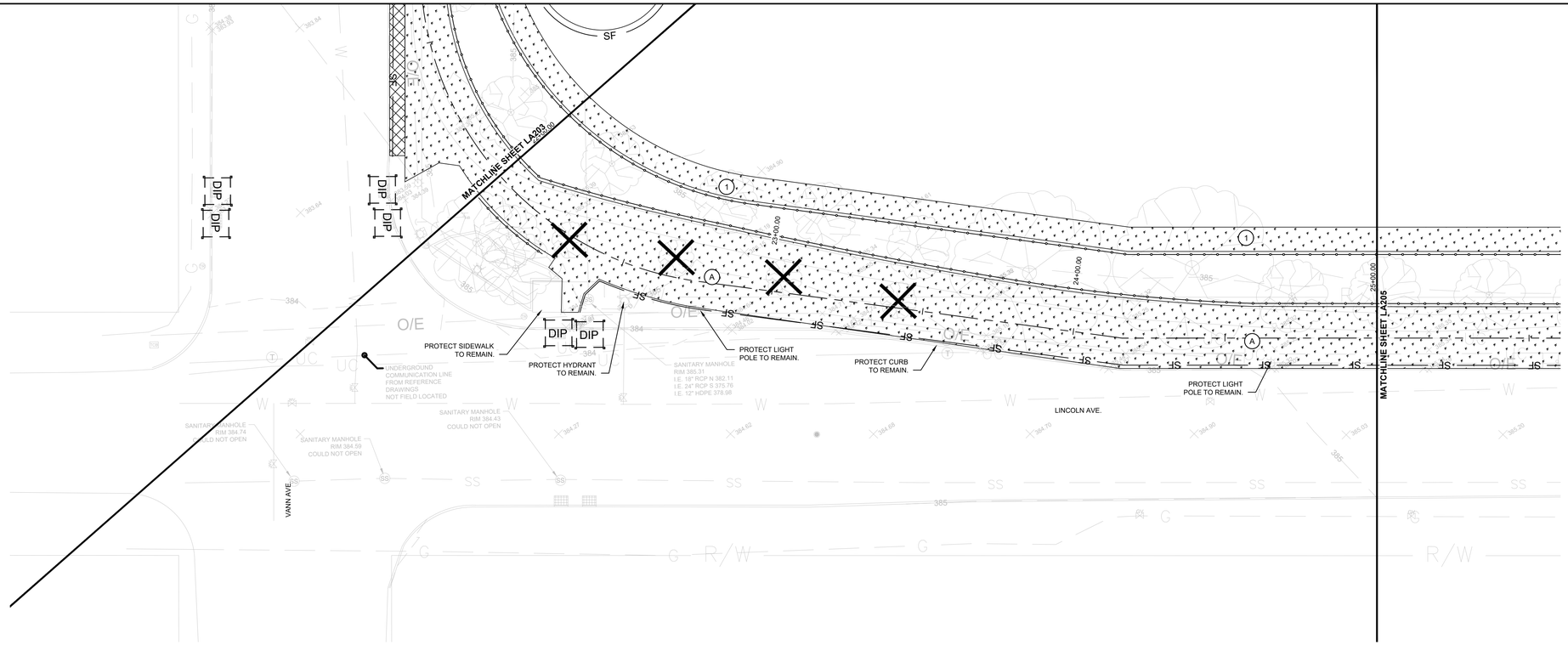
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA203

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- LIMT — LIMITS OF DISTURBANCE.
- SF — SILT FENCE.
- TREE PROTECTION FENCING.
- UE — EXISTING UNDERGROUND ELECTRICAL.
- OHE — EXISTING OVERHEAD ELECTRICAL.
- W — EXISTING WATER.
- ST — EXISTING STORM LINE.
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- SS — EXISTING SANITARY SEWER.
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CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

CERTIFICATION:

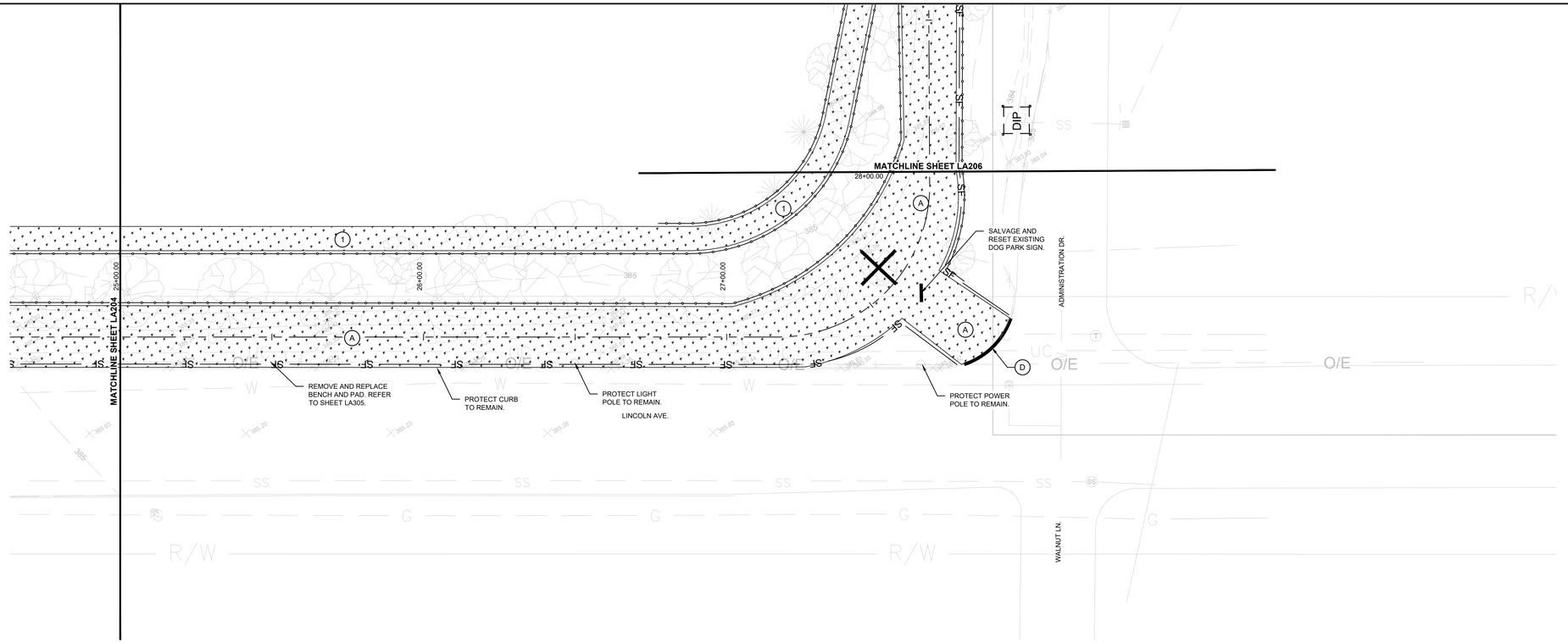
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA204

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DEMOLITION KEYNOTES:

- (A) CLEAR AND GRUB AREA TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- (B) FULL-DEPTH SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- (C) FULL-DEPTH SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
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DEMOLITION LEGEND:

- TREE REMOVAL.
- LIMIT — LIMITS OF DISTURBANCE.
- SF — SILT FENCE.
- TREE PROTECTION FENCING.
- UE — EXISTING UNDERGROUND ELECTRICAL.
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- W — EXISTING WATER.
- ST — EXISTING STORM LINE.
- UC — EXISTING UNDERGROUND COMMUNICATION LINE.
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- G — EXISTING GAS LINE.

DEMOLITION GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR THE STAGING AND REMOVAL OF ALL DEMOLITION ITEMS.
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3. THE CONTRACTOR SHALL PROTECT ALL EXISTING ELEMENTS TO REMAIN DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY TO EXISTING SITE ELEMENTS THAT ARE TO REMAIN.
5. THE CONTRACTOR SHALL SMOOTHLY SAW CUT EXISTING PAVEMENTS TO BE REMOVED FROM PAVEMENTS TO REMAIN. REFER TO PLANS FOR SAW CUT LOCATIONS RELATING TO EXISTING JOINTING.
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7. TREE REMOVAL SHALL OCCUR BETWEEN NOVEMBER 15TH AND MARCH 31ST. REFER TO SPECIFICATIONS.
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9. ALL WORK SHALL BE COORDINATED AND IN COMPLIANCE WITH STATE AND LOCAL MUNICIPALITIES AS WARRANTED.
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11. CONTRACTOR TO VERIFY SITE CONDITIONS IN FIELD PRIOR TO BIDDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH ANY CHANGES SINCE THE SURVEY WAS PROCURED. RUNDELL ERNSTBERGER ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF SURVEY INFORMATION.
12. CONTRACTOR SHALL ERECT CONSTRUCTION FENCING ALONG CONSTRUCTION LIMIT LINE. CONTRACTOR SHALL COORDINATE WITH OWNER ON THE LOCATION AND RELOCATION OF FENCING AND CONSTRUCTION ACCESS POINTS.
13. CONTRACTOR IS RESPONSIBLE TO PROVIDE AT THEIR EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY AND LOCAL AGENCIES.

EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION INGRESS/EGRESS - 12 INCHES OF INDOT CA NO. 2 AGGREGATE (20'W x 100'L) MIN. OR REUSABLE CONSTRUCTION MATS. REFER TO DETAILS ON SHEET LA106.
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MULCH MATERIALS
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FIBER MULCH: BIODEGRADABLE DYED WOOD CELLULOSE FIBER MULCH, NONTOXIC, FREE OF PLANT GROWTH OR GERMINATION INHIBITORS, WITH MAXIMUM MOISTURE CONTENT OF 15 PERCENT AND A PH RANGE OF 4.5 TO 6.5

TACKIFIER MATERIALS
ASPHALT EMULSION TACKIFIER: ASPHALT EMULSION, ASTM D 977, GRADE SS-1, NONTOXIC AND FREE OF PLANT GROWTH OR GERMINATION INHIBITORS.
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EROSION CONTROL NOTES

1. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE DRAWINGS ARE CONSIDERED THE MINIMUM PRACTICES NECESSARY FOR COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS IDENTIFIED UNDER SECTION 327-IAC-15-5 OF THE INDIANA ADMINISTRATIVE CODE. HOWEVER, SITE CONDITIONS, CONSTRUCTION METHODS, SEQUENCING OF WORK AND GENERAL PRACTICE MAY WARRANT VARIATION AND/OR ADDITIONS TO THE QUANTITIES AND LOCATIONS OF MEASURES AS SHOWN. MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
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4. PERIMETER CONTROL MEASURES (I.E. SILT FENCE AND FILTER SOCKS) SHALL BE INSTALLED PRIOR TO COMMENCING EARTHWORK ACTIVITIES.
5. IN ADDITION TO THE MAINTENANCE REQUIREMENTS IDENTIFIED FOR INDIVIDUAL MEASURES, ALL EROSION CONTROL MEASURES INSTALLED UNDER THIS PROJECT SHALL BE INSPECTED WEEKLY TO ENSURE THEY ARE FUNCTIONING PROPERLY. MEASURES FOUND TO BE DEFICIENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY THEREAFTER.
6. SYMBOLS FOR INLET PROTECTION MEASURES AND DITCH CHECKS ARE SHOWN LARGER THAN ACTUAL SIZE.
7. DISTURBED AREAS AND STOCKPILES THAT ARE TO REMAIN IDLE FOR MORE THAN 15 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.
8. REFER TO PLANTING PLAN SHEETS FOR SEEDING AND PLANTING DETAILS.

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11. MAINTAIN EROSION AND SEDIMENT PRACTICES THROUGHOUT THE DURATION OF THE PROJECT.

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA201 - Demolition Plan

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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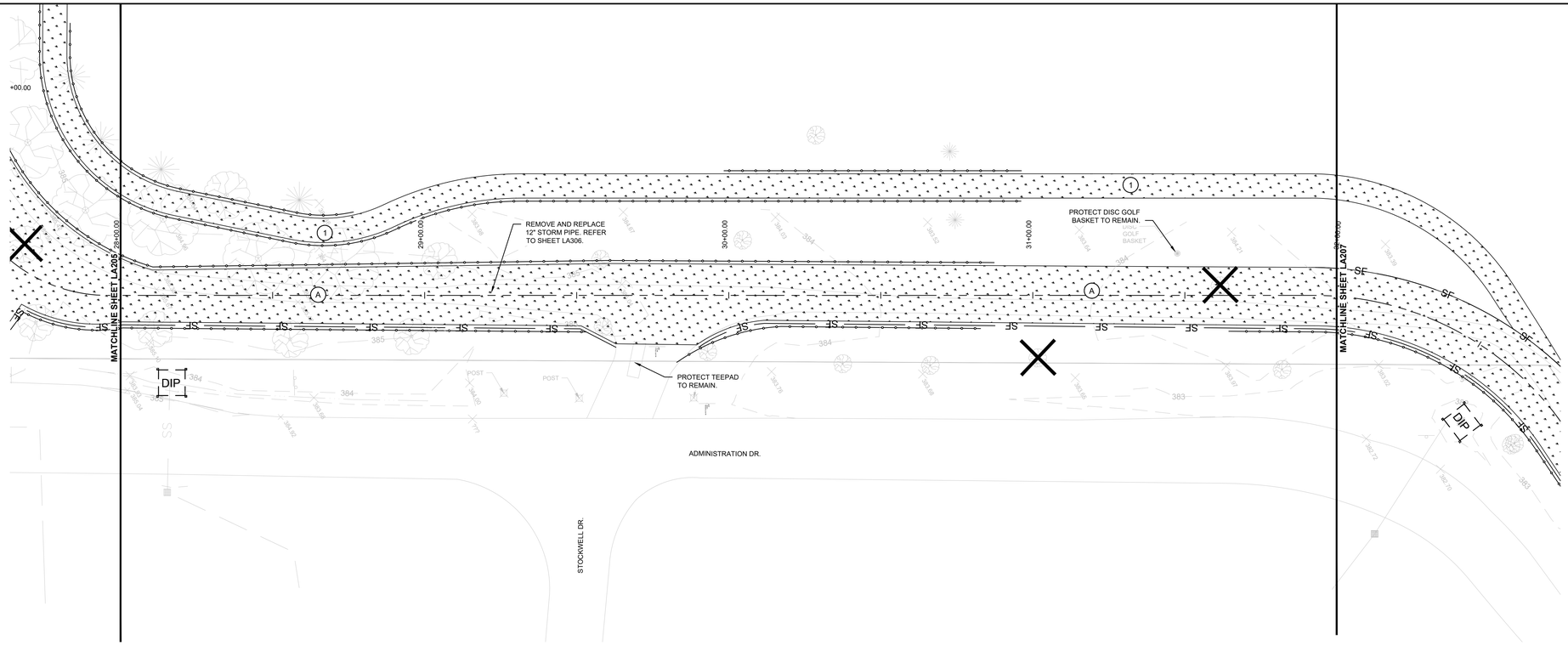
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REA PROJECT #:	2024-1766
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DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA205

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA201 - Demolition Plan

PREPARED BY:
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
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PREPARED FOR:
City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

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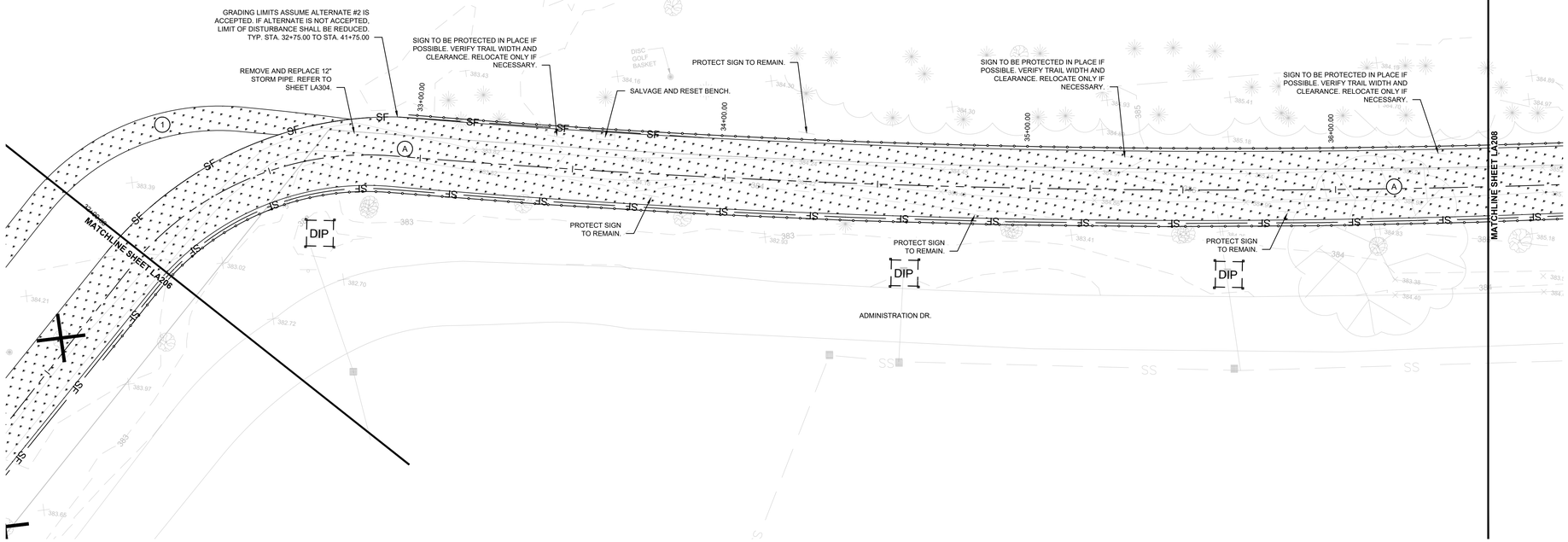
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
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DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA206

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1. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE DRAWINGS ARE CONSIDERED THE MINIMUM PRACTICES NECESSARY FOR COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS IDENTIFIED UNDER SECTION 327-IAC-15-5 OF THE INDIANA ADMINISTRATIVE CODE. HOWEVER, SITE CONDITIONS, CONSTRUCTION METHODS, SEQUENCING OF WORK AND GENERAL PRACTICE MAY WARRANT VARIATION AND/OR ADDITIONS TO THE QUANTITIES AND LOCATIONS OF MEASURES AS SHOWN. MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA201 - Demolition Plan

PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

CERTIFICATION:

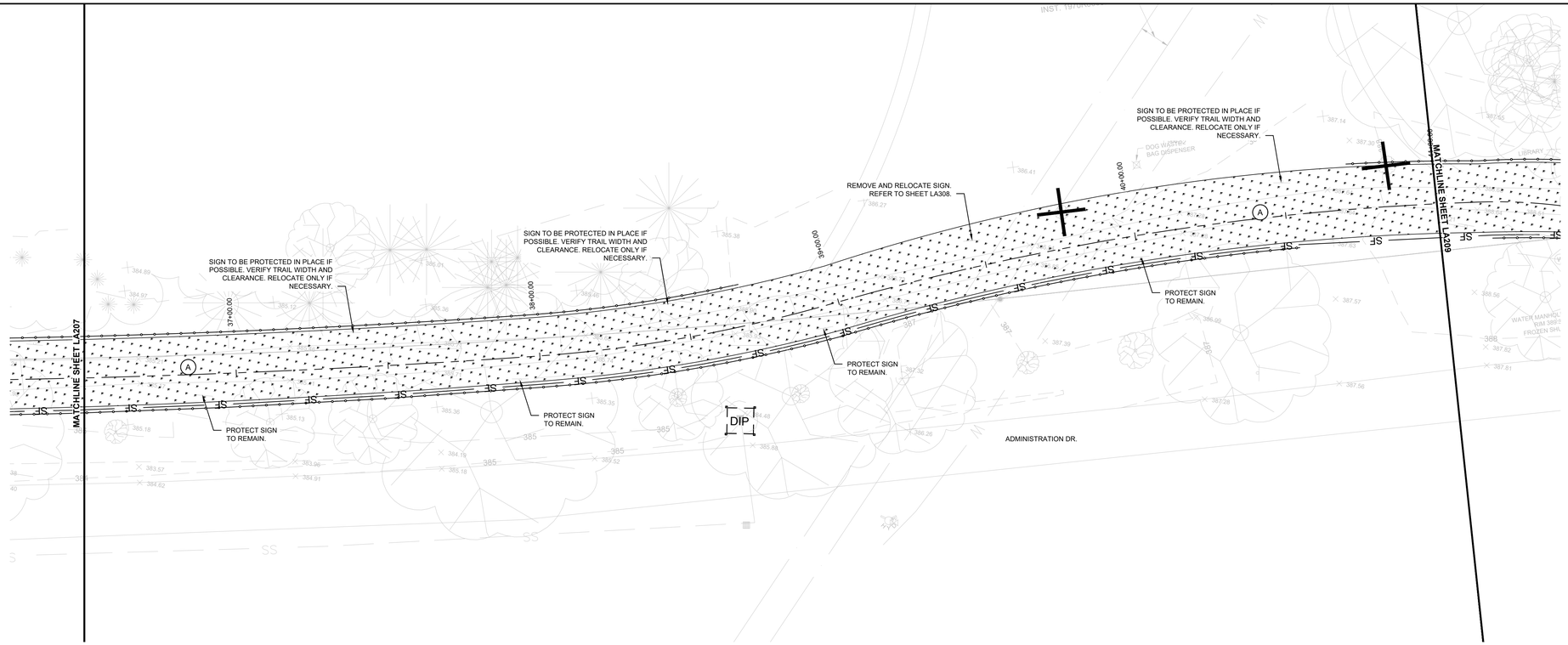
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA207

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- (A) CLEAR AND GRUB AREA TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA201 - Demolition Plan

PREPARED BY:
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
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PREPARED FOR:
City of Evansville Parks and Recreation
100 E Walnut Street
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Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'

SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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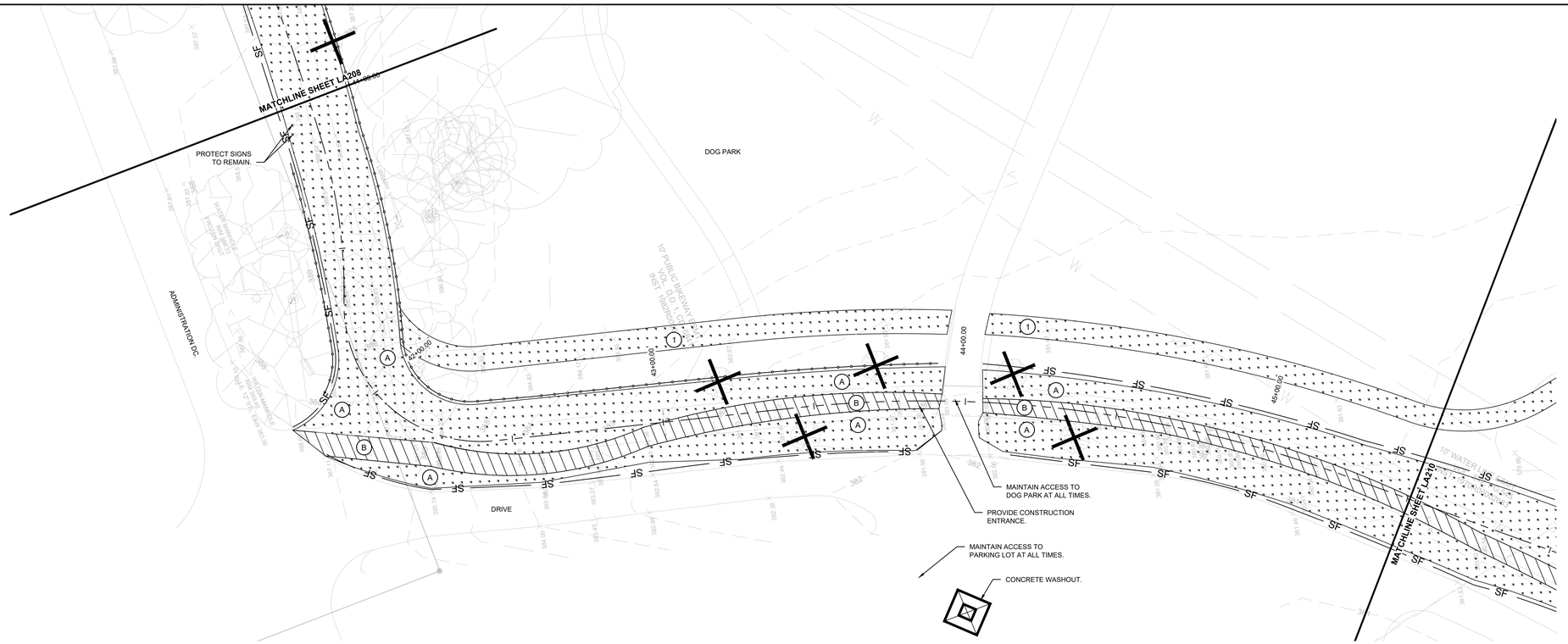
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA208

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11. MAINTAIN EROSION AND SEDIMENT PRACTICES THROUGHOUT THE DURATION OF THE PROJECT.

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA201 - Demolition Plan

PREPARED BY:
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:
City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

CERTIFICATION:

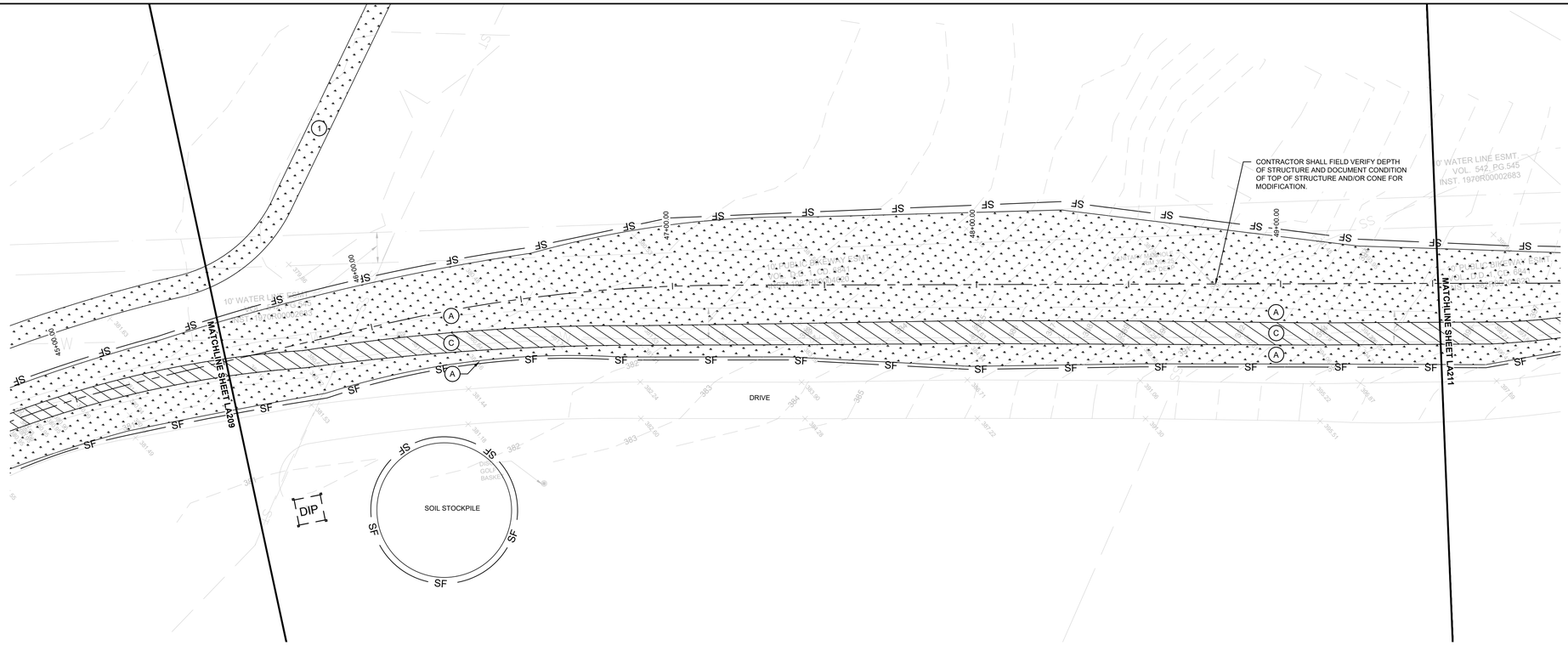
PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF INDIANA
LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA209

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- A — CLEAR AND GRUB AREA TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA201 - Demolition Plan

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
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PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH — SCALE: 1" = 20' (0', 10', 20', 40')

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

CERTIFICATION:

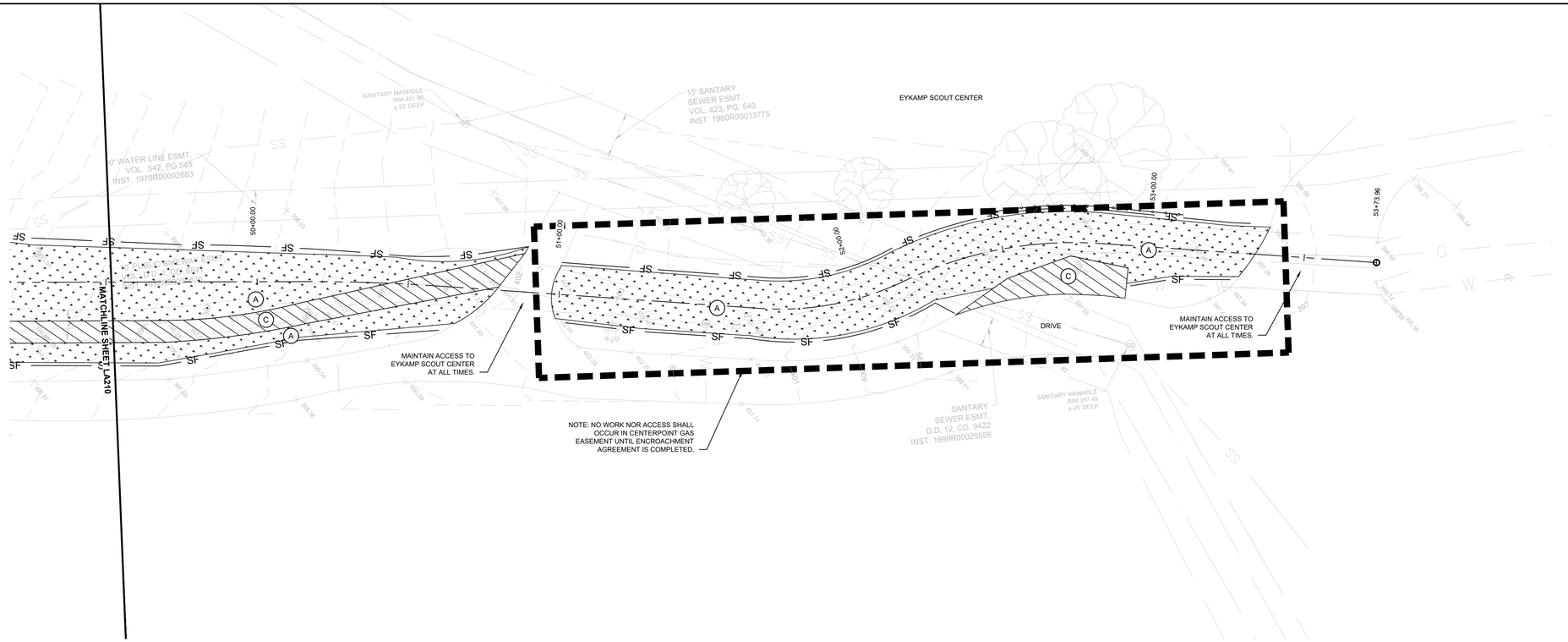
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA210

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RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

CERTIFICATION:

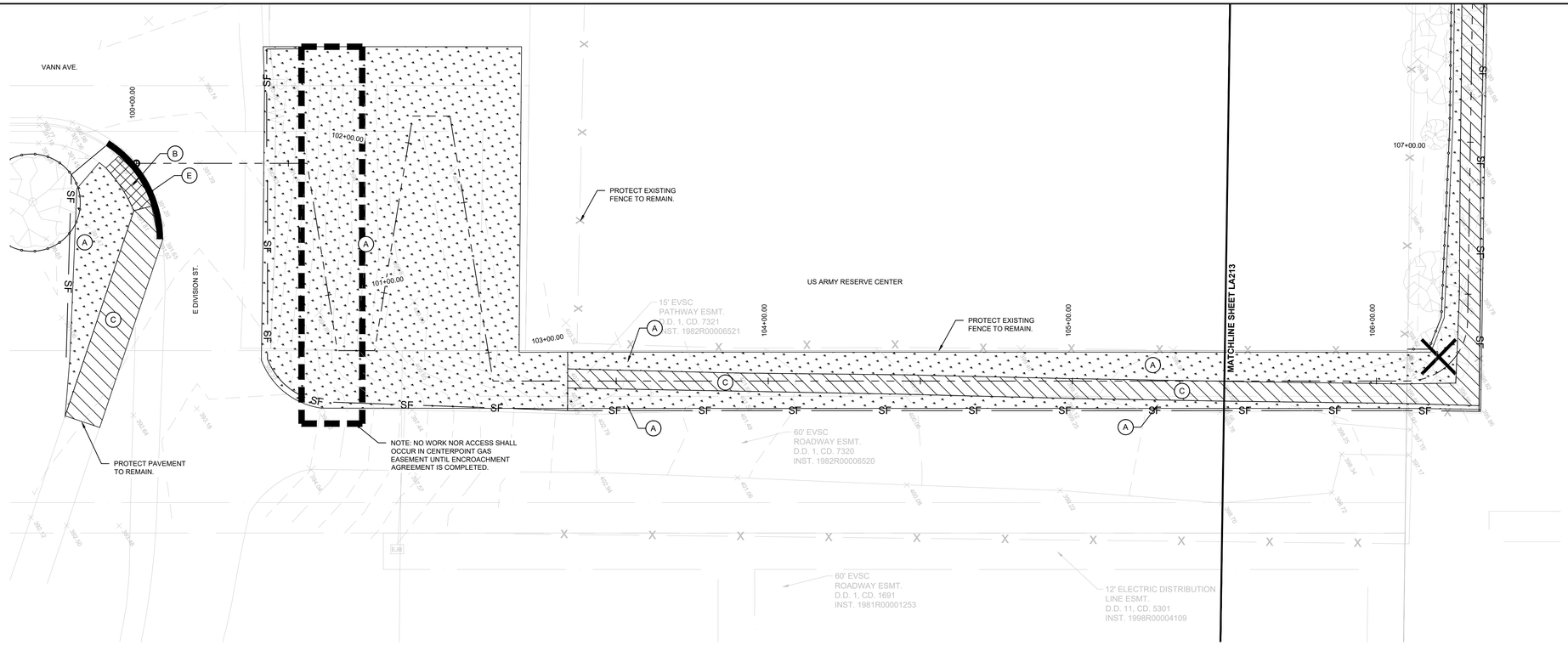
PETER M. ANDRIOT REGISTERED No. 20800187 STATE OF INDIANA LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA211

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DEMOLITION KEYNOTES:

- A — CLEAR AND GRUB AREA TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- B — FULL-DEPTH SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- C — FULL-DEPTH SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- D — FULL-DEPTH SAW CUT EXISTING CONCRETE BARRIER CURB AS NECESSARY TO INSTALL NEW IMPROVEMENTS.
- E — FULL-DEPTH SAW CUT EXISTING CONCRETE CURB AND GUTTER AS NECESSARY TO INSTALL NEW IMPROVEMENTS.

ALTERNATE DEMOLITION KEYNOTES:

- 1 — CLEAR AND GRUB AREA TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.

DEMOLITION LEGEND:

- TREE REMOVAL.
- LIMITS OF DISTURBANCE.
- SILT FENCE.
- TREE PROTECTION FENCING.
- UE — EXISTING UNDERGROUND ELECTRICAL.
- OE — EXISTING OVERHEAD ELECTRICAL.
- W — EXISTING WATER.
- ST — EXISTING STORM LINE.
- UC — EXISTING UNDERGROUND COMMUNICATION LINE.
- SS — EXISTING SANITARY SEWER.
- G — EXISTING GAS LINE.

DEMOLITION GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR THE STAGING AND REMOVAL OF ALL DEMOLITION ITEMS.
2. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE OWNER & LANDSCAPE ARCHITECT ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS SHOWN ON THESE PLANS AND ACTUAL FIELD CONDITIONS.
3. THE CONTRACTOR SHALL PROTECT ALL EXISTING ELEMENTS TO REMAIN DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY TO EXISTING SITE ELEMENTS THAT ARE TO REMAIN.
5. THE CONTRACTOR SHALL SMOOTHLY SAW CUT EXISTING PAVEMENTS TO BE REMOVED FROM PAVEMENTS TO REMAIN. REFER TO PLANS FOR SAW CUT LOCATIONS RELATING TO EXISTING JOINTING.
6. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR TO PROTECT EXISTING TREES TO REMAIN. THIS EFFORT SHALL INCLUDE, BUT IS NOT LIMITED TO, INSTALLING TREE PROTECTION FENCING AROUND TREES WITHIN THE AREAS OF CONSTRUCTION ACTIVITY. ALSO REFRAIN FROM PARKING OR MOVING ANY VEHICLES OR EQUIPMENT WITHIN THE DRIP LINES OF TREES TO PROTECT. REFER TO SPECIFICATIONS FOR TREE PROTECTION.
7. TREE REMOVAL SHALL OCCUR BETWEEN NOVEMBER 15TH AND MARCH 31ST. REFER TO SPECIFICATIONS.
8. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH AFFECTED UTILITIES PRIOR TO START OF CONSTRUCTION. ALL UTILITIES SHALL BE FIELD LOCATED PRIOR TO THE START OF CONSTRUCTION. ALL UNDERGROUND AND OVERHEAD UTILITIES SHALL BE MAINTAINED AND PROTECTED FROM DAMAGE. RESETTING OR REPLACEMENT OF CASTINGS AND/OR STRUCTURES MAY BE REQUIRED - REFER TO GRADING PLANS.
9. ALL WORK SHALL BE COORDINATED AND IN COMPLIANCE WITH STATE AND LOCAL MUNICIPALITIES AS WARRANTED.
10. EROSION CONTROL SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBANCE, INCLUDING PAVEMENT REMOVAL. EROSION CONTROL MEASURES (I.E.: SILT FENCING AND SEDIMENT CONTROL) SHALL BE PROVIDED BY THE CONTRACTOR PER THE SPECIFICATIONS. REFER TO DEMOLITION PLANS AND PLAN AND PROFILES, DETAILS, & SPECS.
11. CONTRACTOR TO VERIFY SITE CONDITIONS IN FIELD PRIOR TO BIDDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH ANY CHANGES SINCE THE SURVEY WAS PROCURED. RUNDELL ERNSTBERGER ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF SURVEY INFORMATION.
12. CONTRACTOR SHALL ERECT CONSTRUCTION FENCING ALONG CONSTRUCTION LIMIT LINE. CONTRACTOR SHALL COORDINATE WITH OWNER ON THE LOCATION AND RELOCATION OF FENCING AND CONSTRUCTION ACCESS POINTS.
13. CONTRACTOR IS RESPONSIBLE TO PROVIDE AT THEIR EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY AND LOCAL AGENCIES.

EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION INGRESS/EGRESS - 12 INCHES OF INDOT CA NO. 2 AGGREGATE (20'W x 100'L) MIN. OR REUSABLE CONSTRUCTION MATS. REFER TO DETAILS ON SHEET LA106.
- DIP — TEMPORARY DROP INLET PROTECTION - REFER TO DETAILS ON SHEET LA106.
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NOTE: SYMBOLS ON PLANS NOT SHOWN TO SCALE.

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MULCH MAY BE APPLIED BY HAND OR BLOWN BY MACHINE. THE DEPTH OF COVERAGE SHALL BE A UNIFORM DEPTH OF 2 TO 3 INCHES.
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MULCH MATERIALS
STRAW MULCH: PROVIDE AIR DRY, CLEAN, MILDEW AND SEED FREE, SALT HAY OR THRESHED STRAW OF WHEAT, RYE, OATS OR BARLEY.
FIBER MULCH: BIODEGRADABLE DYED WOOD CELLULOSE FIBER MULCH, NONTOXIC, FREE OF PLANT GROWTH OR GERMINATION INHIBITORS, WITH MAXIMUM MOISTURE CONTENT OF 15 PERCENT AND A PH RANGE OF 4.5 TO 6.5

TACKIFIER MATERIALS
ASPHALT EMULSION TACKIFIER: ASPHALT EMULSION, ASTM D 977, GRADE SS-1, NONTOXIC AND FREE OF PLANT GROWTH OR GERMINATION INHIBITORS.
NONASPHALIC TACKIFIER: COLLOIDAL TACKIFIER RECOMMENDED BY FIBER-MULCH MANUFACTURER FOR SLURRY APPLICATION, NONTOXIC AND FREE OF PLANT GROWTH OR GERMINATION INHIBITORS.

MAINTENANCE
ADD NEW MULCH IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS SUFFICIENTLY TO NULLIFY ITS PURPOSE. ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT.

EROSION CONTROL NOTES

1. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE DRAWINGS ARE CONSIDERED THE MINIMUM PRACTICES NECESSARY FOR COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS IDENTIFIED UNDER SECTION 327-IAC-15-5 OF THE INDIANA ADMINISTRATIVE CODE. HOWEVER, SITE CONDITIONS, CONSTRUCTION METHODS, SEQUENCING OF WORK AND GENERAL PRACTICE MAY WARRANT VARIATION AND/OR ADDITIONS TO THE QUANTITIES AND LOCATIONS OF MEASURES AS SHOWN. MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. UNLESS OTHERWISE SHOWN, TEMPORARY CONTROL MEASURES SHALL BE REMOVED UPON SATISFACTORY ESTABLISHMENT OF PERMANENT VEGETATION.
3. REFER TO SHEET LA106 FOR DETAILS REFERENCED ON THIS SHEET.
4. PERIMETER CONTROL MEASURES (I.E. SILT FENCE AND FILTER SOCKS) SHALL BE INSTALLED PRIOR TO COMMENCING EARTHWORK ACTIVITIES.
5. IN ADDITION TO THE MAINTENANCE REQUIREMENTS IDENTIFIED FOR INDIVIDUAL MEASURES, ALL EROSION CONTROL MEASURES INSTALLED UNDER THIS PROJECT SHALL BE INSPECTED WEEKLY TO ENSURE THEY ARE FUNCTIONING PROPERLY. MEASURES FOUND TO BE DEFICIENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY THEREAFTER.
6. SYMBOLS FOR INLET PROTECTION MEASURES AND DITCH CHECKS ARE SHOWN LARGER THAN ACTUAL SIZE.
7. DISTURBED AREAS AND STOCKPILES THAT ARE TO REMAIN IDLE FOR MORE THAN 15 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.
8. REFER TO PLANTING PLAN SHEETS FOR SEEDING AND PLANTING DETAILS.

EROSION CONTROL SEQUENCE NOTES

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2. INSTALL OUTLET CONTROL STRUCTURES, PIPING, AND EROSION CONTROL MEASURES.
3. BEGIN MASS EARTHWORK.
4. INSTALL STORM SEWER SYSTEMS. INSTALL INLET PROTECTION AS INLETS ARE INSTALLED.
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6. INSTALL UTILITIES.
7. INSTALL STONE BASE FOR CONCRETE AS SOON AS GRADE IS ESTABLISHED.
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9. APPLY TOPSOIL AS REQUIRED.
10. REMOVE TEMPORARY EROSION CONTROL PRACTICES AFTER VEGETATION IS ESTABLISHED AND PROJECT SITE IS PERMANENTLY STABILIZED.
11. MAINTAIN EROSION AND SEDIMENT PRACTICES THROUGHOUT THE DURATION OF THE PROJECT.

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA212 - Demolition Plan (Mid)

PREPARED BY:
RUNDELL ERNSTBERGER ASSOCIATES
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EVANSVILLE, INDIANA

BID DOCUMENTS

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REVISIONS:

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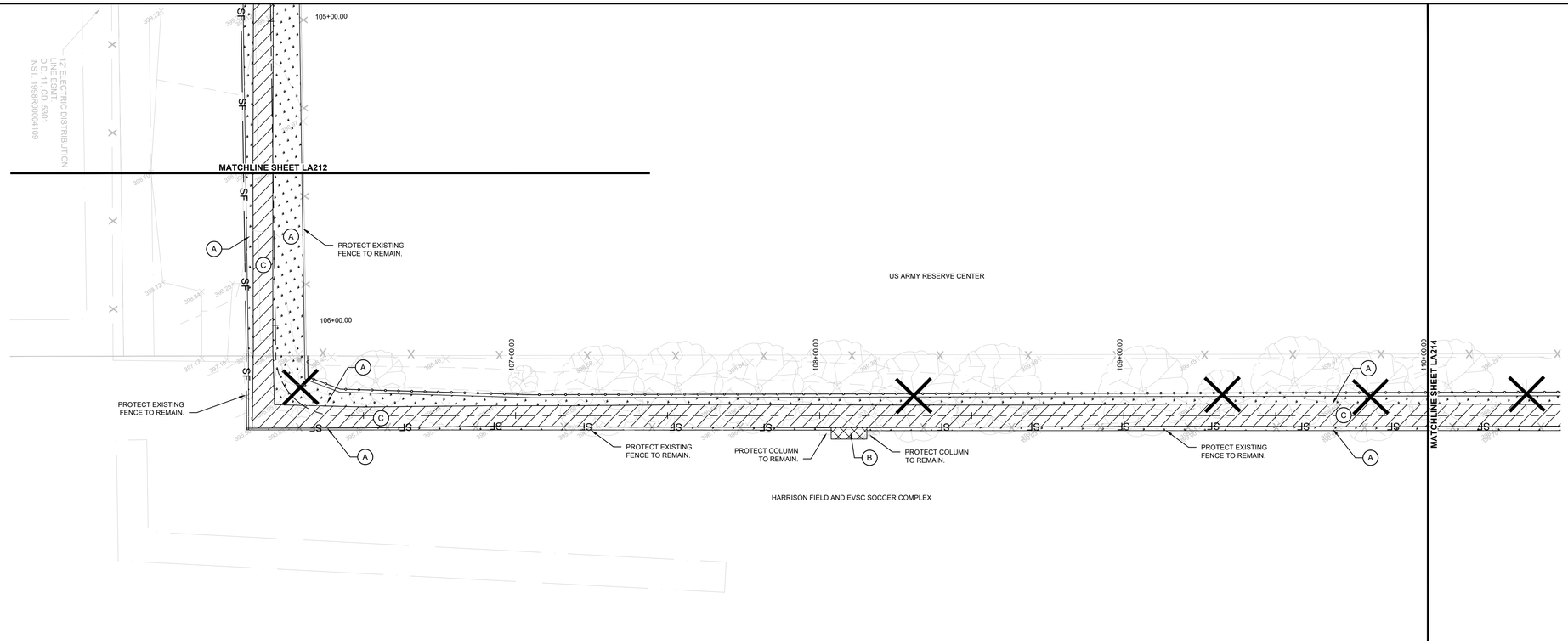
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA212

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA212 - Demolition Plan (Mid)

PREPARED BY:
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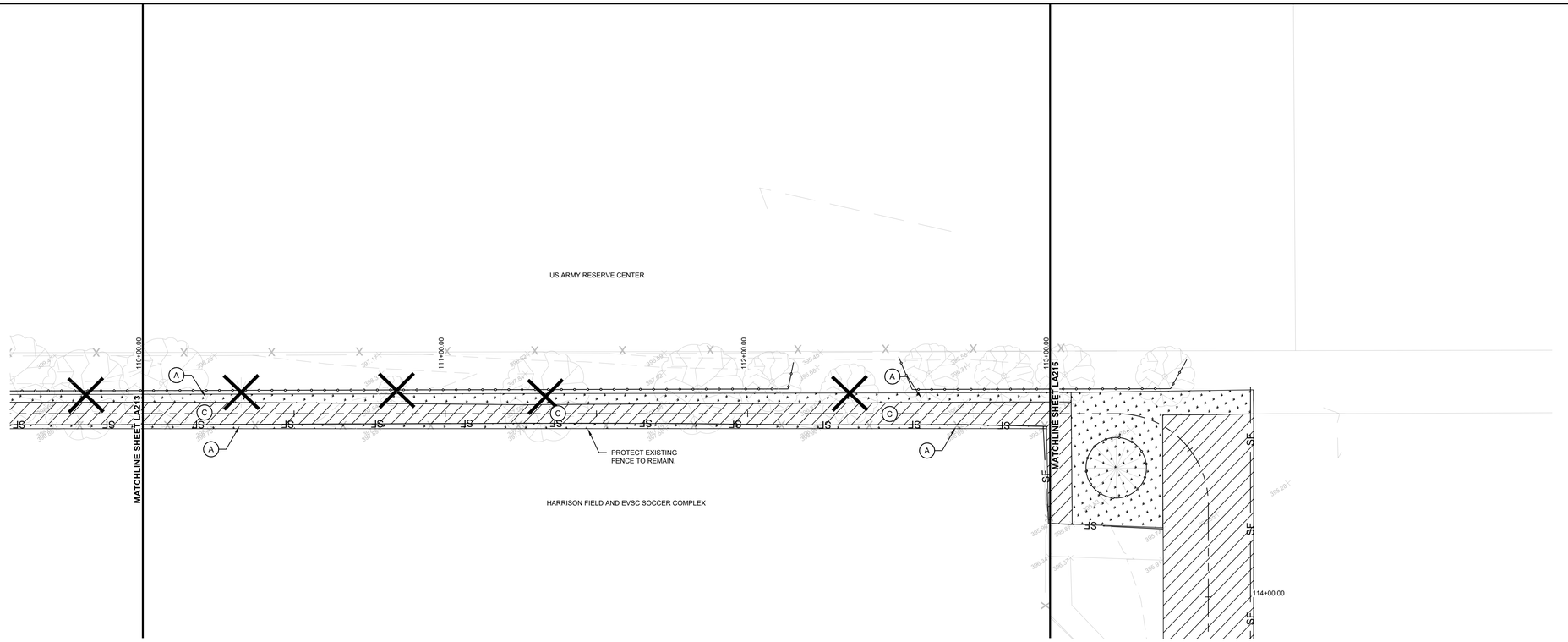
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
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DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA213

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FIBER MULCH: BIODEGRADABLE DYED WOOD CELLULOSE FIBER MULCH, NONTOXIC, FREE OF PLANT GROWTH OR GERMINATION INHIBITORS, WITH MAXIMUM MOISTURE CONTENT OF 15 PERCENT AND A PH RANGE OF 4.5 TO 6.5

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ASPHALT EMULSION TACKIFIER: ASPHALT EMULSION, ASTM D 977, GRADE SS-1, NONTOXIC AND FREE OF PLANT GROWTH OR GERMINATION INHIBITORS.
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EROSION CONTROL NOTES

1. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE DRAWINGS ARE CONSIDERED THE MINIMUM PRACTICES NECESSARY FOR COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS IDENTIFIED UNDER SECTION 327-IAC-15-5 OF THE INDIANA ADMINISTRATIVE CODE. HOWEVER, SITE CONDITIONS, CONSTRUCTION METHODS, SEQUENCING OF WORK AND GENERAL PRACTICE MAY WARRANT VARIATION AND/OR ADDITIONS TO THE QUANTITIES AND LOCATIONS OF MEASURES AS SHOWN. MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
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5. IN ADDITION TO THE MAINTENANCE REQUIREMENTS IDENTIFIED FOR INDIVIDUAL MEASURES, ALL EROSION CONTROL MEASURES INSTALLED UNDER THIS PROJECT SHALL BE INSPECTED WEEKLY TO ENSURE THEY ARE FUNCTIONING PROPERLY. MEASURES FOUND TO BE DEFICIENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY THEREAFTER.
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7. DISTURBED AREAS AND STOCKPILES THAT ARE TO REMAIN IDLE FOR MORE THAN 15 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.
8. REFER TO PLANTING PLAN SHEETS FOR SEEDING AND PLANTING DETAILS.

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10. REMOVE TEMPORARY EROSION CONTROL PRACTICES AFTER VEGETATION IS ESTABLISHED AND PROJECT SITE IS PERMANENTLY STABILIZED.
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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA212 - Demolition Plan (Mid)

PREPARED BY:
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:
City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH — SCALE: 1" = 20' (0', 10', 20', 40')

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

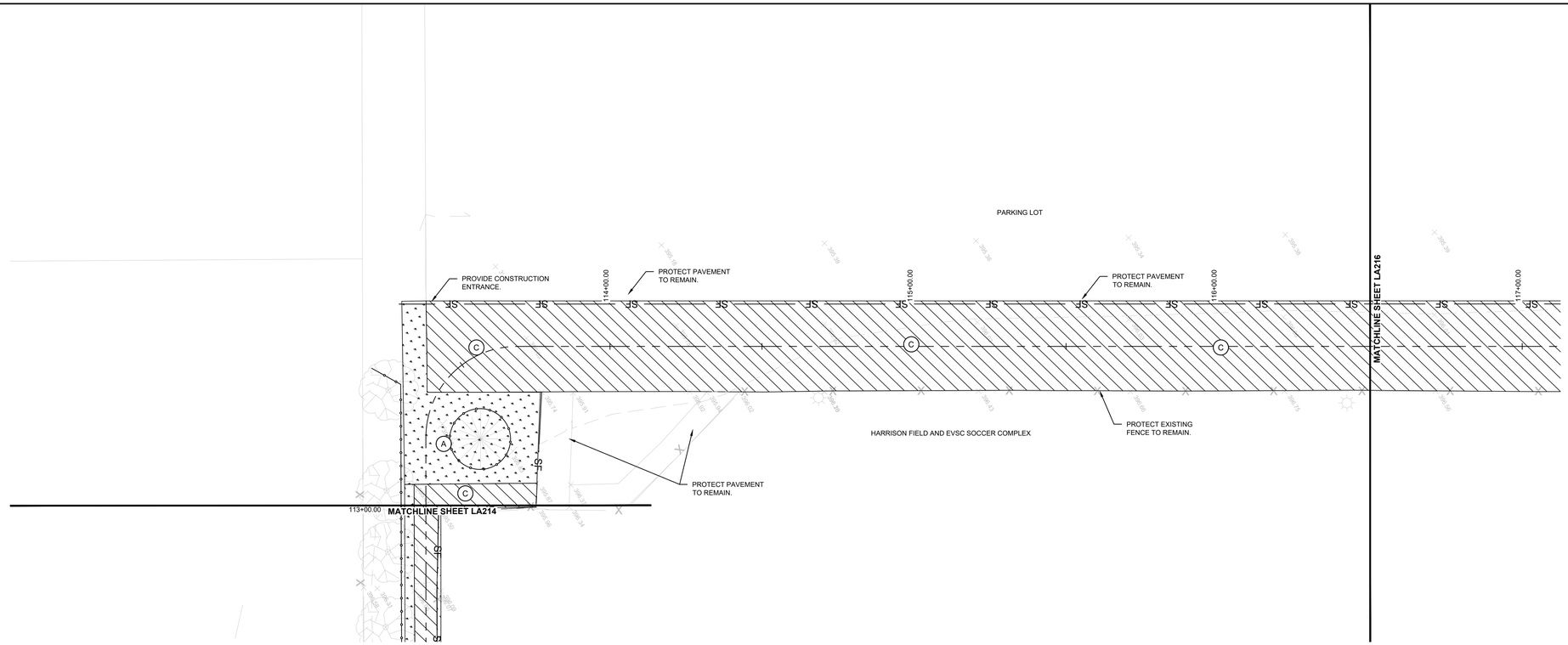
CERTIFICATION:
PETER M. ANDRIOT III — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA214

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815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:
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100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

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REVISIONS:

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DRAWING NAME:

DEMOLITION PLAN

CERTIFICATION:

PETER M. ANDRIOT III — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

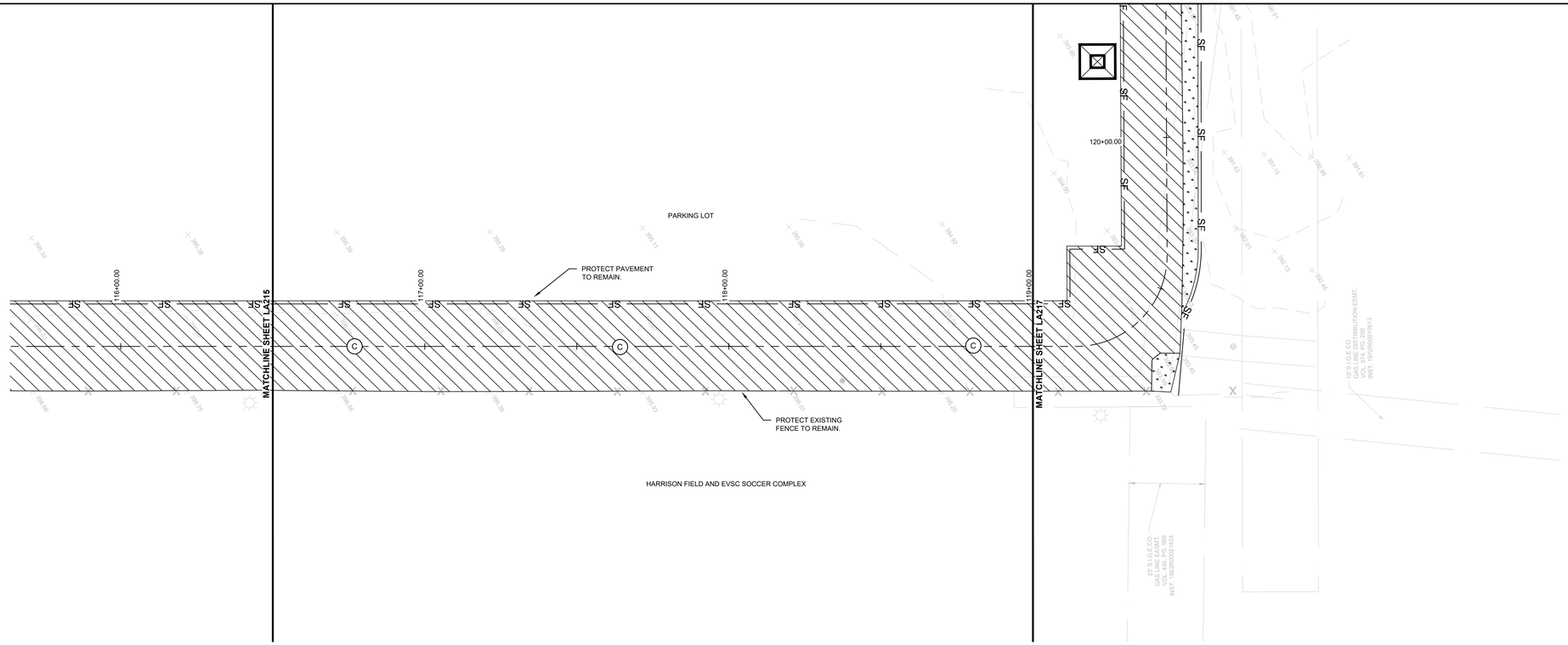
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA215

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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA212 - Demolition Plan (Mid)



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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA212 - Demolition Plan (Mid)

PREPARED BY:
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:
City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH — SCALE: 1" = 20' (0', 10', 20', 40')

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

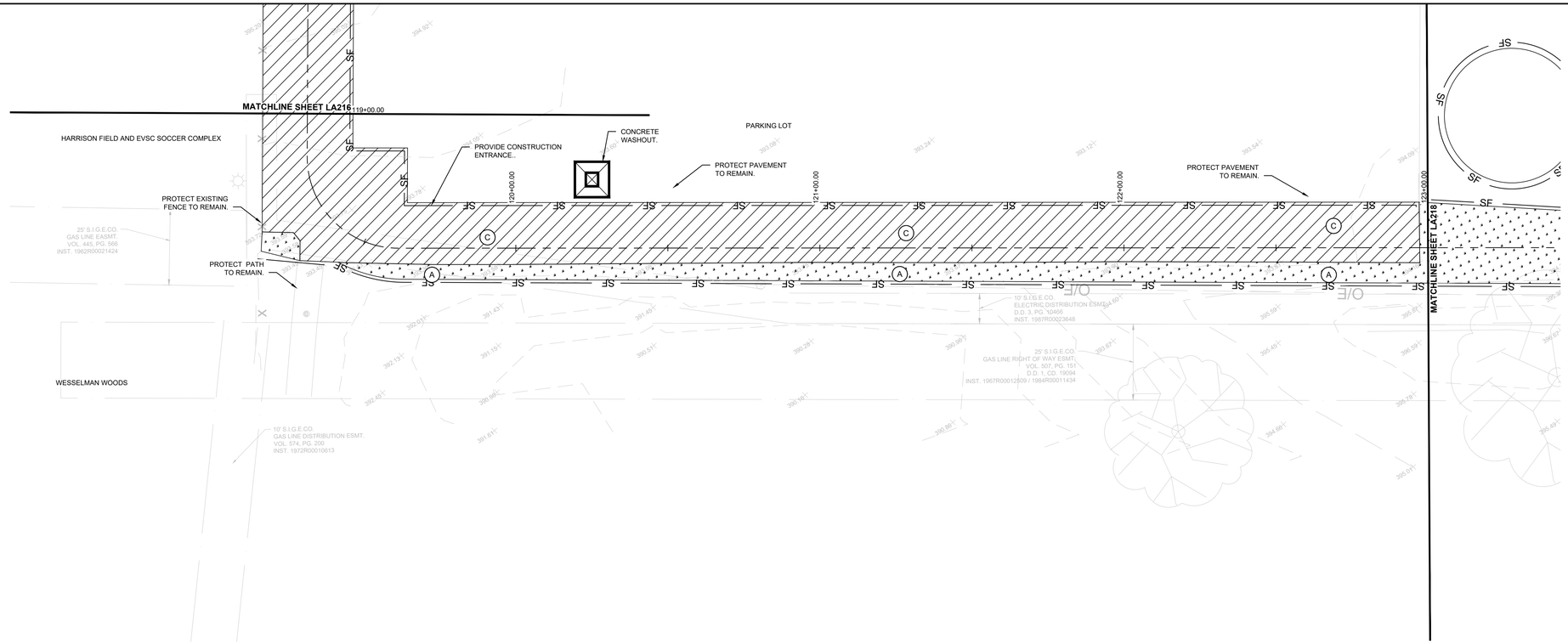
CERTIFICATION:
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA216

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- A — CLEAR AND GRUB AREA TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA212 - Demolition Plan (Mid)

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

CERTIFICATION:

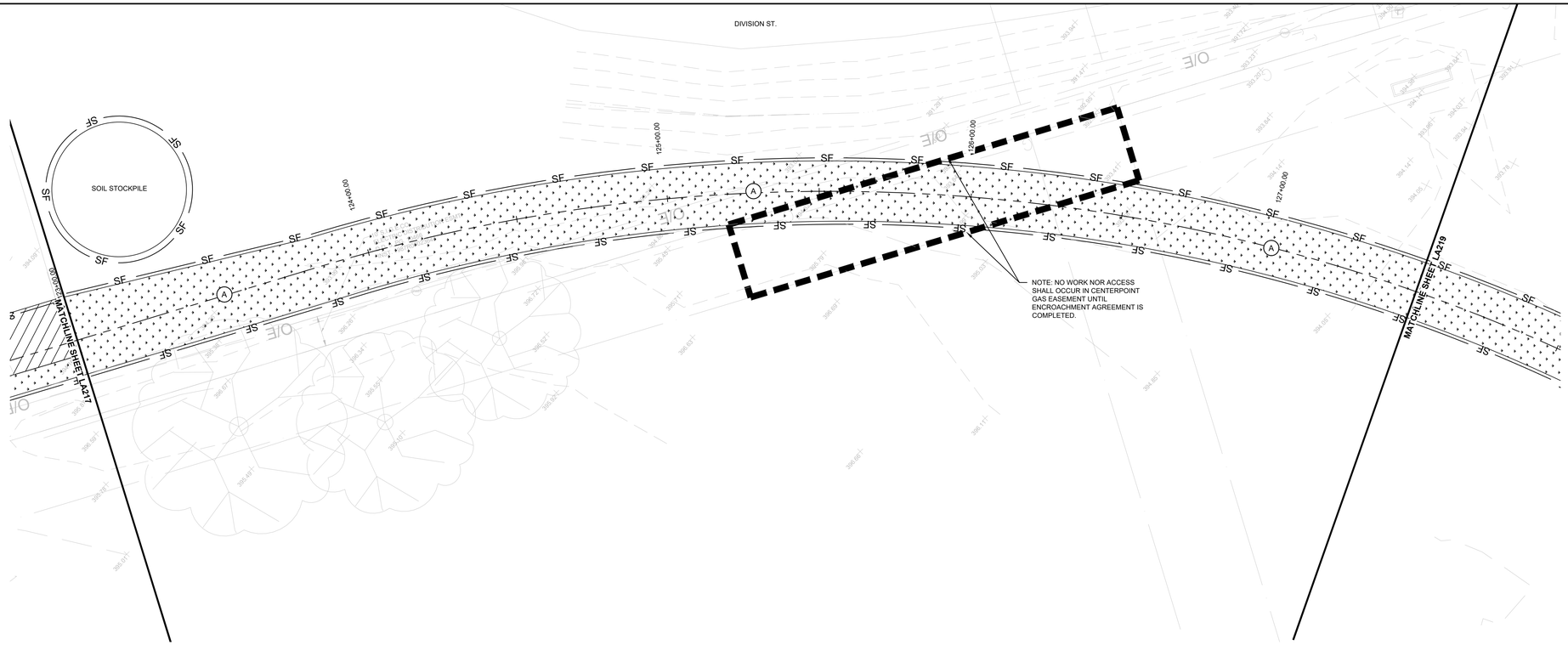
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA217

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA212 - Demolition Plan (Mid)

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

CERTIFICATION:

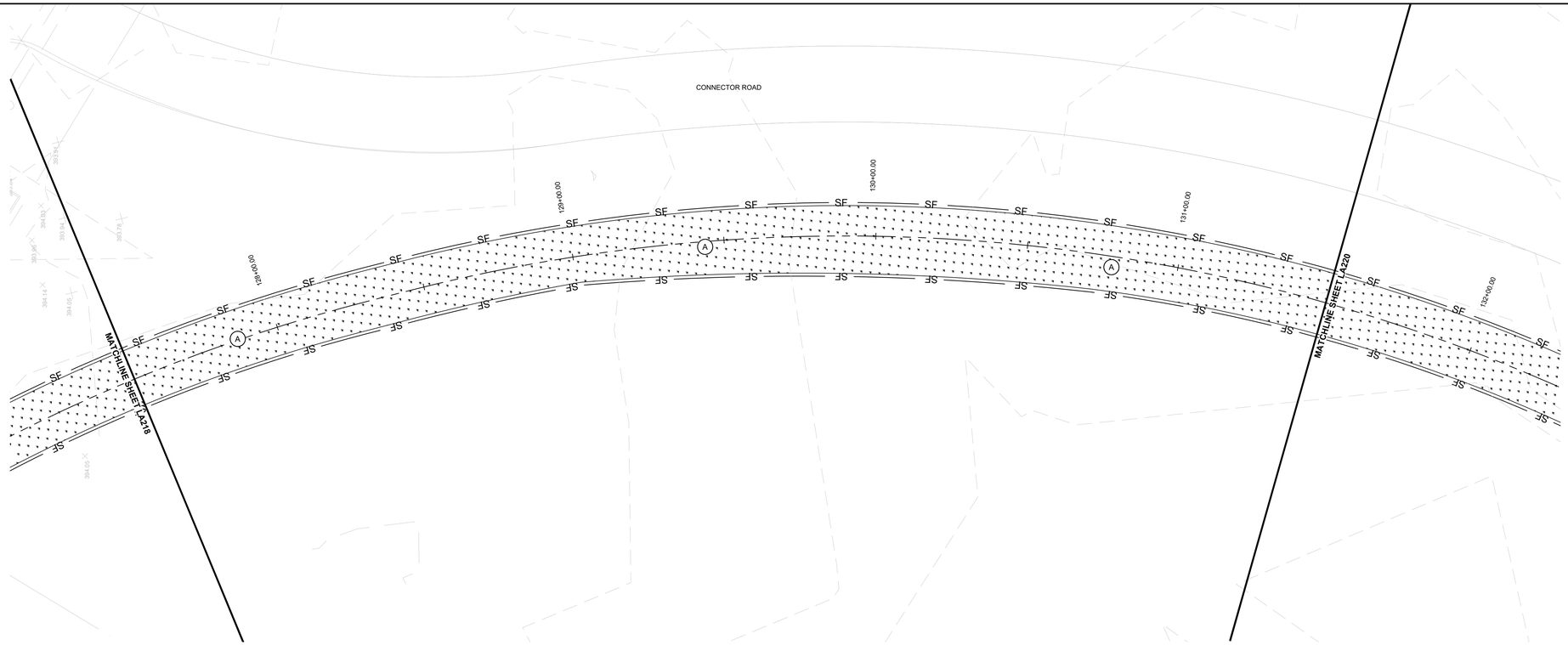
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA218

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DEMOLITION KEYNOTES:

- A — CLEAR AND GRUB AREA TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- B — FULL-DEPTH SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- C — FULL-DEPTH SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.
- D — FULL-DEPTH SAW CUT EXISTING CONCRETE BARRIER CURB AS NECESSARY TO INSTALL NEW IMPROVEMENTS.
- E — FULL-DEPTH SAW CUT EXISTING CONCRETE CURB AND GUTTER AS NECESSARY TO INSTALL NEW IMPROVEMENTS.

ALTERNATE DEMOLITION KEYNOTES:

- 1 — CLEAR AND GRUB AREA TO DEPTH NECESSARY TO INSTALL NEW IMPROVEMENTS.

DEMOLITION LEGEND:

- TREE REMOVAL.
- LIMIT — LIMITS OF DISTURBANCE.
- SF — SILT FENCE.
- TREE PROTECTION FENCING.
- UE — EXISTING UNDERGROUND ELECTRICAL.
- OE — EXISTING OVERHEAD ELECTRICAL.
- W — EXISTING WATER.
- ST — EXISTING STORM LINE.
- UC — EXISTING UNDERGROUND COMMUNICATION LINE.
- SS — EXISTING SANITARY SEWER.
- G — EXISTING GAS LINE.

DEMOLITION GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR THE STAGING AND REMOVAL OF ALL DEMOLITION ITEMS.
2. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE OWNER & LANDSCAPE ARCHITECT ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS SHOWN ON THESE PLANS AND ACTUAL FIELD CONDITIONS.
3. THE CONTRACTOR SHALL PROTECT ALL EXISTING ELEMENTS TO REMAIN DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY TO EXISTING SITE ELEMENTS THAT ARE TO REMAIN.
5. THE CONTRACTOR SHALL SMOOTHLY SAW CUT EXISTING PAVEMENTS TO BE REMOVED FROM PAVEMENTS TO REMAIN. REFER TO PLANS FOR SAW CUT LOCATIONS RELATING TO EXISTING JOINTING.
6. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR TO PROTECT EXISTING TREES TO REMAIN. THIS EFFORT SHALL INCLUDE, BUT IS NOT LIMITED TO, INSTALLING TREE PROTECTION FENCING AROUND TREES WITHIN THE AREAS OF CONSTRUCTION ACTIVITY. ALSO REFRAIN FROM PARKING OR MOVING ANY VEHICLES OR EQUIPMENT WITHIN THE DRIP LINES OF TREES TO PROTECT. REFER TO SPECIFICATIONS FOR TREE PROTECTION.
7. TREE REMOVAL SHALL OCCUR BETWEEN NOVEMBER 15TH AND MARCH 31ST. REFER TO SPECIFICATIONS.
8. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH AFFECTED UTILITIES PRIOR TO START OF CONSTRUCTION. ALL UTILITIES SHALL BE FIELD LOCATED PRIOR TO THE START OF CONSTRUCTION. ALL UNDERGROUND AND OVERHEAD UTILITIES SHALL BE MAINTAINED AND PROTECTED FROM DAMAGE. RESETTING OR REPLACEMENT OF CASTINGS AND/OR STRUCTURES MAY BE REQUIRED - REFER TO GRADING PLANS.
9. ALL WORK SHALL BE COORDINATED AND IN COMPLIANCE WITH STATE AND LOCAL MUNICIPALITIES AS WARRANTED.
10. EROSION CONTROL SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBANCE, INCLUDING PAVEMENT REMOVAL. EROSION CONTROL MEASURES (I.E.: SILT FENCING AND SEDIMENT CONTROL) SHALL BE PROVIDED BY THE CONTRACTOR PER THE SPECIFICATIONS. REFER TO DEMOLITION PLANS AND PLAN AND PROFILES, DETAILS, & SPECS.
11. CONTRACTOR TO VERIFY SITE CONDITIONS IN FIELD PRIOR TO BIDDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH ANY CHANGES SINCE THE SURVEY WAS PROCURED. RUNDELL ERNSTBERGER ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF SURVEY INFORMATION.
12. CONTRACTOR SHALL ERECT CONSTRUCTION FENCING ALONG CONSTRUCTION LIMIT LINE. CONTRACTOR SHALL COORDINATE WITH OWNER ON THE LOCATION AND RELOCATION OF FENCING AND CONSTRUCTION ACCESS POINTS.
13. CONTRACTOR IS RESPONSIBLE TO PROVIDE AT THEIR EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY AND LOCAL AGENCIES.

EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION INGRESS/EGRESS - 12 INCHES OF INDOT CA NO. 2 AGGREGATE (20'W x 100'L) MIN. OR REUSABLE CONSTRUCTION MATS. REFER TO DETAILS ON SHEET LA106.
- DIP — TEMPORARY DROP INLET PROTECTION - REFER TO DETAILS ON SHEET LA106.
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MULCH MAY BE APPLIED BY HAND OR BLOWN BY MACHINE. THE DEPTH OF COVERAGE SHALL BE A UNIFORM DEPTH OF 2 TO 3 INCHES.
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MULCH MATERIALS
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FIBER MULCH: BIODEGRADABLE DYED WOOD CELLULOSE FIBER MULCH, NONTOXIC, FREE OF PLANT GROWTH OR GERMINATION INHIBITORS, WITH MAXIMUM MOISTURE CONTENT OF 15 PERCENT AND A PH RANGE OF 4.5 TO 6.5

TACKIFIER MATERIALS
ASPHALT EMULSION TACKIFIER: ASPHALT EMULSION, ASTM D 977, GRADE SS-1, NONTOXIC AND FREE OF PLANT GROWTH OR GERMINATION INHIBITORS.
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MAINTENANCE
ADD NEW MULCH IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS SUFFICIENTLY TO NULLIFY ITS PURPOSE. ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT.

EROSION CONTROL NOTES

1. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE DRAWINGS ARE CONSIDERED THE MINIMUM PRACTICES NECESSARY FOR COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS IDENTIFIED UNDER SECTION 327-IAC-15-5 OF THE INDIANA ADMINISTRATIVE CODE. HOWEVER, SITE CONDITIONS, CONSTRUCTION METHODS, SEQUENCING OF WORK AND GENERAL PRACTICE MAY WARRANT VARIATION AND/OR ADDITIONS TO THE QUANTITIES AND LOCATIONS OF MEASURES AS SHOWN. MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. UNLESS OTHERWISE SHOWN, TEMPORARY CONTROL MEASURES SHALL BE REMOVED UPON SATISFACTORY ESTABLISHMENT OF PERMANENT VEGETATION.
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4. PERIMETER CONTROL MEASURES (I.E. SILT FENCE AND FILTER SOCKS) SHALL BE INSTALLED PRIOR TO COMMENCING EARTHWORK ACTIVITIES.
5. IN ADDITION TO THE MAINTENANCE REQUIREMENTS IDENTIFIED FOR INDIVIDUAL MEASURES, ALL EROSION CONTROL MEASURES INSTALLED UNDER THIS PROJECT SHALL BE INSPECTED WEEKLY TO ENSURE THEY ARE FUNCTIONING PROPERLY. MEASURES FOUND TO BE DEFICIENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY THEREAFTER.
6. SYMBOLS FOR INLET PROTECTION MEASURES AND DITCH CHECKS ARE SHOWN LARGER THAN ACTUAL SIZE.
7. DISTURBED AREAS AND STOCKPILES THAT ARE TO REMAIN IDLE FOR MORE THAN 15 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.
8. REFER TO PLANTING PLAN SHEETS FOR SEEDING AND PLANTING DETAILS.

EROSION CONTROL SEQUENCE NOTES

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3. BEGIN MASS EARTHWORK.
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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA212 - Demolition Plan (Mid)

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RUNDELL ERNSTBERGER ASSOCIATES
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815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
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PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH — SCALE: 1" = 20' (0', 10', 20', 40')

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DEMOLITION PLAN

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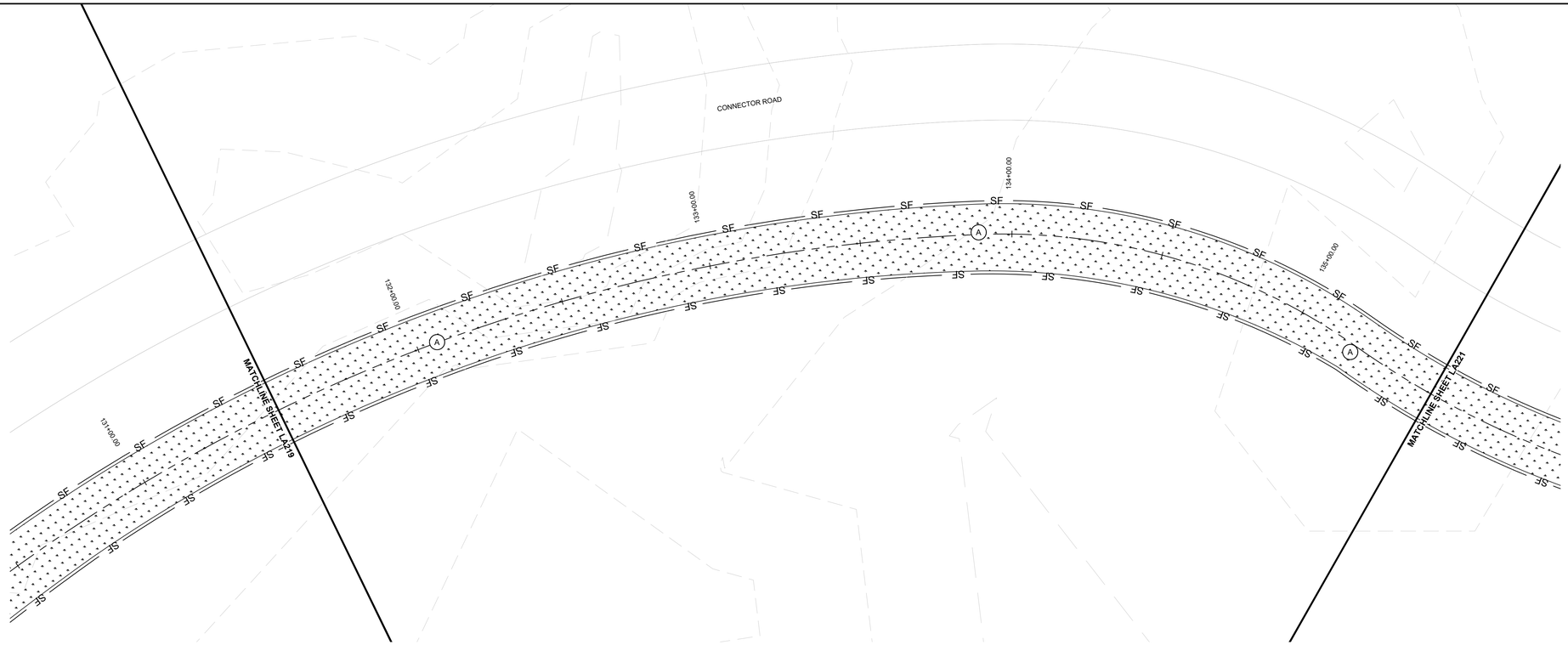
PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA219

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PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

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CERTIFICATION:

PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

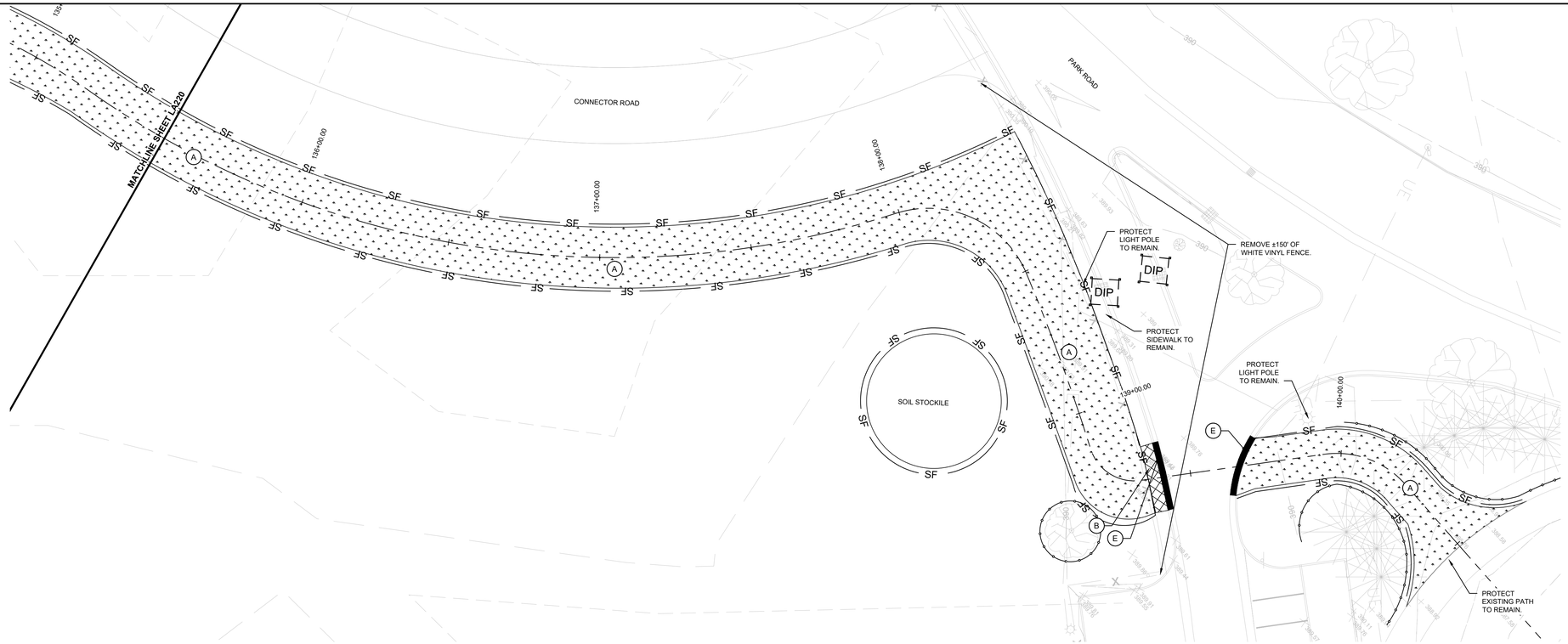
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA220

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA212 - Demolition Plan (Mid)



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- W — EXISTING WATER.
- ST — EXISTING STORM LINE.
- UC — EXISTING UNDERGROUND COMMUNICATION LINE.
- SS — EXISTING SANITARY SEWER.
- G — EXISTING GAS LINE.

DEMOLITION GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR THE STAGING AND REMOVAL OF ALL DEMOLITION ITEMS.
2. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE OWNER & LANDSCAPE ARCHITECT ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS SHOWN ON THESE PLANS AND ACTUAL FIELD CONDITIONS.
3. THE CONTRACTOR SHALL PROTECT ALL EXISTING ELEMENTS TO REMAIN DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY TO EXISTING SITE ELEMENTS THAT ARE TO REMAIN.
5. THE CONTRACTOR SHALL SMOOTHLY SAW CUT EXISTING PAVEMENTS TO BE REMOVED FROM PAVEMENTS TO REMAIN. REFER TO PLANS FOR SAW CUT LOCATIONS RELATING TO EXISTING JOINTING.
6. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR TO PROTECT EXISTING TREES TO REMAIN. THIS EFFORT SHALL INCLUDE, BUT IS NOT LIMITED TO, INSTALLING TREE PROTECTION FENCING AROUND TREES WITHIN THE AREAS OF CONSTRUCTION ACTIVITY. ALSO REFRAIN FROM PARKING OR MOVING ANY VEHICLES OR EQUIPMENT WITHIN THE DRIP LINES OF TREES TO PROTECT. REFER TO SPECIFICATIONS FOR TREE PROTECTION.
7. TREE REMOVAL SHALL OCCUR BETWEEN NOVEMBER 15TH AND MARCH 31ST. REFER TO SPECIFICATIONS.
8. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH AFFECTED UTILITIES PRIOR TO START OF CONSTRUCTION. ALL UTILITIES SHALL BE FIELD LOCATED PRIOR TO THE START OF CONSTRUCTION. ALL UNDERGROUND AND OVERHEAD UTILITIES SHALL BE MAINTAINED AND PROTECTED FROM DAMAGE. RESETTING OR REPLACEMENT OF CASTINGS AND/OR STRUCTURES MAY BE REQUIRED - REFER TO GRADING PLANS.
9. ALL WORK SHALL BE COORDINATED AND IN COMPLIANCE WITH STATE AND LOCAL MUNICIPALITIES AS WARRANTED.
10. EROSION CONTROL SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBANCE, INCLUDING PAVEMENT REMOVAL. EROSION CONTROL MEASURES (I.E.: SILT FENCING AND SEDIMENT CONTROL) SHALL BE PROVIDED BY THE CONTRACTOR PER THE SPECIFICATIONS. REFER TO DEMOLITION PLANS AND PLAN AND PROFILES, DETAILS, & SPECS.
11. CONTRACTOR TO VERIFY SITE CONDITIONS IN FIELD PRIOR TO BIDDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH ANY CHANGES SINCE THE SURVEY WAS PROCURED. RUNDELL ERNSTBERGER ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF SURVEY INFORMATION.
12. CONTRACTOR SHALL ERECT CONSTRUCTION FENCING ALONG CONSTRUCTION LIMIT LINE. CONTRACTOR SHALL COORDINATE WITH OWNER ON THE LOCATION AND RELOCATION OF FENCING AND CONSTRUCTION ACCESS POINTS.
13. CONTRACTOR IS RESPONSIBLE TO PROVIDE AT THEIR EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY AND LOCAL AGENCIES.

EROSION CONTROL LEGEND

- TEMPORARY CONSTRUCTION INGRESS/EGRESS - 12 INCHES OF INDOT CA NO. 2 AGGREGATE (20'W x 100'L) MIN. OR REUSABLE CONSTRUCTION MATS. REFER TO DETAILS ON SHEET LA106.
- DIP — TEMPORARY DROP INLET PROTECTION - REFER TO DETAILS ON SHEET LA106.
- GRAVEL END SECTION PROTECTION - REFER TO DETAILS ON SHEET LA106.
- CONCRETE WASHOUT - REFER TO DETAILS ON SHEET LA106.

NOTE: SYMBOLS ON PLANS NOT SHOWN TO SCALE.

MULCH APPLICATION GUIDELINES

MULCH APPLICATION GUIDELINES
MULCH MAY BE APPLIED BY HAND OR BLOWN BY MACHINE. THE DEPTH OF COVERAGE SHALL BE A UNIFORM DEPTH OF 2 TO 3 INCHES.
MULCH SHALL BE ANCHORED BY HAND PUNCHING, ROLLER PUNCHING, DISC ANCHORING, PLASTIC NETTING OR BY THE USE OF TACKIFYING AGENT.

MULCH MATERIALS
STRAW MULCH: PROVIDE AIR DRY, CLEAN, MILDEW AND SEED FREE, SALT HAY OR THRESHED STRAW OF WHEAT, RYE, OATS OR BARLEY.
FIBER MULCH: BIODEGRADABLE DYED WOOD CELLULOSE FIBER MULCH, NONTOXIC, FREE OF PLANT GROWTH OR GERMINATION INHIBITORS, WITH MAXIMUM MOISTURE CONTENT OF 15 PERCENT AND A PH RANGE OF 4.5 TO 6.5

TACKIFIER MATERIALS
ASPHALT EMULSION TACKIFIER: ASPHALT EMULSION, ASTM D 977, GRADE SS-1, NONTOXIC AND FREE OF PLANT GROWTH OR GERMINATION INHIBITORS.
NONASPHALIC TACKIFIER: COLLOIDAL TACKIFIER RECOMMENDED BY FIBER-MULCH MANUFACTURER FOR SLURRY APPLICATION, NONTOXIC AND FREE OF PLANT GROWTH OR GERMINATION INHIBITORS.

MAINTENANCE
ADD NEW MULCH IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS SUFFICIENTLY TO NULLIFY ITS PURPOSE. ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT.

EROSION CONTROL NOTES

1. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE DRAWINGS ARE CONSIDERED THE MINIMUM PRACTICES NECESSARY FOR COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS IDENTIFIED UNDER SECTION 327:IAC-15-5 OF THE INDIANA ADMINISTRATIVE CODE. HOWEVER, SITE CONDITIONS, CONSTRUCTION METHODS, SEQUENCING OF WORK AND GENERAL PRACTICE MAY WARRANT VARIATION AND/OR ADDITIONS TO THE QUANTITIES AND LOCATIONS OF MEASURES AS SHOWN. MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. UNLESS OTHERWISE SHOWN, TEMPORARY CONTROL MEASURES SHALL BE REMOVED UPON SATISFACTORY ESTABLISHMENT OF PERMANENT VEGETATION.
3. REFER TO SHEET LA106 FOR DETAILS REFERENCED ON THIS SHEET.
4. PERIMETER CONTROL MEASURES (I.E. SILT FENCE AND FILTER SOCKS) SHALL BE INSTALLED PRIOR TO COMMENCING EARTHWORK ACTIVITIES.
5. IN ADDITION TO THE MAINTENANCE REQUIREMENTS IDENTIFIED FOR INDIVIDUAL MEASURES, ALL EROSION CONTROL MEASURES INSTALLED UNDER THIS PROJECT SHALL BE INSPECTED WEEKLY TO ENSURE THEY ARE FUNCTIONING PROPERLY. MEASURES FOUND TO BE DEFICIENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY THEREAFTER.
6. SYMBOLS FOR INLET PROTECTION MEASURES AND DITCH CHECKS ARE SHOWN LARGER THAN ACTUAL SIZE.
7. DISTURBED AREAS AND STOCKPILES THAT ARE TO REMAIN IDLE FOR MORE THAN 15 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.
8. REFER TO PLANTING PLAN SHEETS FOR SEEDING AND PLANTING DETAILS.

EROSION CONTROL SEQUENCE NOTES

1. INSTALL INITIAL PERIMETER PRACTICES, INCLUDING PERIMETER SILT FENCE AND INLET PROTECTION PRACTICES FOR EXISTING STORM STRUCTURES.
2. INSTALL OUTLET CONTROL STRUCTURES, PIPING, AND EROSION CONTROL MEASURES.
3. BEGIN MASS EARTHWORK.
4. INSTALL STORM SEWER SYSTEMS. INSTALL INLET PROTECTION AS INLETS ARE INSTALLED.
5. COMPLETE MASS GRADING.
6. INSTALL UTILITIES.
7. INSTALL STONE BASE FOR CONCRETE AS SOON AS GRADE IS ESTABLISHED.
8. INSTALL ROADS, CURBS, PAVEMENT AND FINISHED BACKFILL. SEED RIGHT-OF-WAYS AND OTHER DISTURBED AREAS NOT PREVIOUSLY SEEDED.
9. APPLY TOPSOIL AS REQUIRED.
10. REMOVE TEMPORARY EROSION CONTROL PRACTICES AFTER VEGETATION IS ESTABLISHED AND PROJECT SITE IS PERMANENTLY STABILIZED.
11. MAINTAIN EROSION AND SEDIMENT PRACTICES THROUGHOUT THE DURATION OF THE PROJECT.

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA212 - Demolition Plan (Mid)

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH — SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

DEMOLITION PLAN

CERTIFICATION:

PETER M. ANDRIOT — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA221

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GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. WITHIN THE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL MAINTAIN ALL UTILITIES AND PROTECT FROM DAMAGE.
2. ALL WORK SHALL BE COORDINATED AND IN COMPLIANCE WITH STATE AND LOCAL MUNICIPALITIES AS WARRANTED. ALL WORK TO BE COMPLETED WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO CITY STANDARDS.
3. EROSION CONTROL MEASURES (I.E. SILT FENCING AND SEDIMENT CONTROL) SHALL BE INSTALLED PRIOR TO COMMENCING WORK AND MAINTAINED UNTIL FINAL COMPLETION. REFER TO EROSION CONTROL DRAWINGS AND SPECIFICATIONS.
4. CONTRACTOR SHALL ERECT CONSTRUCTION FENCING AND BARRICADES ALONG THE CONSTRUCTION LIMIT LINE AS NECESSARY. CONTRACTOR SHALL COORDINATE WITH THE OWNER ON THE FINAL LOCATION OF FENCING, BARRICADES, AND CONSTRUCTION ACCESS POINTS. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION FENCE UNTIL FINAL COMPLETION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC AND COORDINATION OF ROAD CLOSURES WITH THE CITY DEPARTMENT OF PUBLIC WORKS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM DEMOLITION OR CONSTRUCTION ACTIVITY TO EXISTING SITE ELEMENTS THAT ARE TO REMAIN.
7. THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S REQUIREMENTS AND DIRECTIONS FOR INSTALLATION.

LAYOUT KEYNOTES

1. SITE LAYOUT DATA, INCLUDING COORDINATE POINTS, IS BASED UPON THE SURVEY. REFER TO SURVEY FOR HORIZONTAL LAYOUT CONTROL POINTS AND BENCHMARKS. REPORT ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS TO OWNER AND LANDSCAPE ARCHITECT IMMEDIATELY.
2. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FOLLOWING: FACE OF WALL, FACE OF BUILDING, FACE OF CURB, EDGE OF PAVEMENT, CENTERLINE OF PAVEMENT, OR CENTER OR LAYOUT COORDINATE.
3. ALL EDGES OF PAVEMENTS ARE TO BE STRAIGHT (OR OF CONSISTENT RADIUS IN THE CASE OF CURVES) AS SHOWN HEREON; NO UNSPECIFIED TANGENTS OR KINKS WILL BE APPROVED.
4. ALL CONSTRUCTION LAYOUT STAKING IS TO BE PERFORMED BY A LAND SURVEYOR OR PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF INDIANA. TO FACILITATE ACCURACY IN CONSTRUCTION STAKING, UPON WRITTEN REQUEST FROM CONTRACTOR, THE ELECTRONIC DATA COMPRISING THESE SITE DEVELOPMENT DRAWINGS WILL BE FORWARDED FROM THE LANDSCAPE ARCHITECT TO THE LAND SURVEYOR OR PROFESSIONAL ENGINEER EMPLOYED TO PERFORM CONSTRUCTION STAKING.
5. ALL LIGHT POLE BASE LOCATIONS SHALL BE STAKED BY SURVEYOR OR PROFESSIONAL ENGINEER AT COORDINATES INDICATED HEREIN; FINAL LOCATIONS ARE TO BE APPROVED IN FIELD BY LANDSCAPE ARCHITECT AND UTILITY REPRESENTATIVE PRIOR TO INSTALLATION. COORDINATES GIVEN ARE TO CENTER POINT OF FOUNDATION.
6. IN ORDER TO MAINTAIN THE INTEGRITY OF HORIZONTAL AND VERTICAL CONTROL FOR THE SITE, THE SURVEYOR OR PROFESSIONAL ENGINEER EMPLOYED BY THE CONTRACTOR TO PERFORM CONSTRUCTION LAYOUT STAKING SHALL SET AND PROTECT ADDITIONAL TRAVERSE POINTS OUTSIDE THE AREAS OF CONSTRUCTION ACTIVITY.
7. AS SOME OF THE HORIZONTAL CONTROL POINTS SHOWN ON THESE PLANS AS EXISTING MAY HAVE BEEN REMOVED OR DAMAGED SINCE THEY WERE SET, THE CONTRACTOR SHALL, DURING THE BIDDING PROCESS, VERIFY THE EXISTENCE AND INTEGRITY OF THE HORIZONTAL CONTROL POINTS SHOWN HEREON. THE CONTRACTOR SHALL INCLUDE ANY WORK NECESSARY TO ESTABLISH RELIABLE LAYOUT CONTROL FOR THE PROJECT IN THE BID.
8. REFER TO PLAN AND PROFILE SHEETS FOR VERTICAL LAYOUT DATA.

UTILITY NOTES:

1. THE UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOW COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.
2. PAVEMENTS, WALKS, CURBS AND OTHER SURFACE IMPROVEMENTS REQUIRING REMOVAL FOR INSTALLATION OF UNDERGROUND UTILITIES SHALL BE RESTORED TO THEIR PRESENT CONDITION UNLESS OTHERWISE SHOWN.
3. PRE-CONSTRUCTION MEETING: ALL PROJECTS WILL REQUIRE A PRE-CONSTRUCTION MEETING WITH THE CITY OF EVANSVILLE UTILITIES PRIOR TO THE START OF CONSTRUCTION.

GRADING GENERAL NOTES:

1. GRADES INDICATED ARE BASED ON SURVEY DATA. REFER TO SURVEY FOR VERTICAL CONTROL POINTS AND PROJECT BENCHMARK.
2. THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES, PREVIOUS CONSTRUCTION PLANS, AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
3. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE OWNER & LANDSCAPE ARCHITECT ANY DISCREPANCIES BETWEEN THE EXISTING GRADES SHOWN ON THESE PLANS AND ACTUAL FIELD CONDITIONS.
4. UNLESS NOTED OTHERWISE, PROPOSED SPOT ELEVATIONS REPRESENT FINISH GRADE OF PAVEMENTS AND GROUND. IN LAWN OR PLANT BED AREAS, PROPOSED ELEVATIONS INDICATE REQUIRED ELEVATIONS AFTER SETTLING OF SOIL.
5. FINISH GRADES SHALL BE HELD DOWN RELATIVE TO WALKS AS FOLLOWS: AT SEED LAWNS: 1/2", AT SOD LAWNS: 1", AND AT PLANT BEDS: 2".
6. TOPSOIL SHALL BE STRIPPED FROM ALL AREAS TO RECEIVE PAVING AND FROM WITHIN THE LIMITS OF PROPOSED BUILDINGS AND STRUCTURES. TOPSOIL SHALL BE STRIPPED TO A DEPTH OF 6 INCHES MINIMUM.
7. ALL LAWN AREAS ARE TO RECEIVE A MINIMUM LAYER OF 6" OF TOPSOIL AND SEED. THE TOPSOIL SHALL BE TRANSITIONED INTO SUBGRADE AS SHOWN IN DETAIL 4, SHEET LA103.
8. ALL SIDEWALKS AND PATHS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0% AND A MAXIMUM RUNNING SLOPE OF 5.0% (1:20). MAXIMUM SLOPE IN LAWN AREAS SHALL BE 3:1.
9. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS/SIDEWALK. GRASS SHALL NOT CREATE BARRIER FOR DRAINAGE FROM SIDEWALK TO OUTFALL. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, "BIRD BATH" CONDITIONS.
10. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED UNLESS OTHERWISE SHOWN.
11. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY, OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
12. THE CONTRACTOR SHALL REFER TO EARTHWORK SPECIFICATION AND THIS SHEET FOR SUBGRADE REQUIREMENT WORK TO ACCOMMODATE AND COORDINATE TOPSOILING AND LANDSCAPE WORK.
13. UNLESS NOTED OTHERWISE, ALL EXISTING STORM AND SANITARY SEWER CASTINGS TO REMAIN SHALL BE ADJUSTED TO GRADE.
14. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH AFFECTED UTILITIES PRIOR TO START OF CONSTRUCTION. ALL UTILITIES SHALL BE FIELD LOCATED PRIOR TO THE START OF CONSTRUCTION. ALL UNDERGROUND AND OVERHEAD UTILITIES SHALL BE MAINTAINED AND PROTECTED FROM DAMAGE. RESETTING OR REPLACEMENT OF CASTINGS AND/OR STRUCTURES MAY BE REQUIRED.

KEYNOTES

ITEM	DESCRIPTION	DETAIL REFERENCE
A1	PAVED TRAIL	REFER TO TYPICAL SECTIONS, SHEET LA101
A2	ASPHALT PATCH	7 | SHEET LA102
A3	SOFT-SURFACE TRAIL	8 | SHEET LA102
A4	FRENCH DRAIN	REFER TO DETAILS ON SHEET C100/C200
C1	SIDEWALK, 4"	4 | SHEET LA102
C2	CURB AND GUTTER - 6", CONCRETE	2 | SHEET LA102
C3	BARRIER CURB - 6", CONCRETE	3 | SHEET LA102
C4	CONCRETE DRIVE AND APRON	3/4 | SHEET LA103
C5	CONCRETE CURB RAMP, PARALLEL	2 | SHEET LA103
C6	CONCRETE CURB RAMP, PERPENDICULAR	1/5 | SHEET LA103
C7	CONCRETE STEPS AND HANDRAILS	1 | SHEET LA105
C8	PARKING WHEEL STOP	10 | SHEET LA102
F1	BENCH	5 | SHEET LA104
F2	TRASH RECEPTACLE	4 | SHEET LA104
F3	BICYCLE RACK	3 | SHEET LA104
F4	BOLLARD	7| SHEET LA104
F5	BIKE REPAIR STAND	6 | SHEET LA104
F6	RRFB	2 | SHEET LA104
F7	RELOCATED SIGN	12 | SHEET LA102
F8	WOOD RAILING	1 | SHEET LA104
P1	LINE, THERMOPLASTIC, SOLID, WHITE, 24 IN.	11 | SHEET LA102
P2	LINE, THERMOPLASTIC, SOLID, WHITE, 4 IN.	6 | SHEET LA103
P3	THERMOPLASTIC, PAVEMENT MESSAGE MARKING, 4' SQ. ADA SYMBOL	7 | SHEET LA103
P4	LINE, THERMOPLASTIC, SOLID, BLUE, 4 IN.	7 | SHEET LA103
L1	LAWN SEED AND STRAW	REFER TO PLANTING SHEETS
S1	PARKING SIGN	12 | SHEET LA102
U1	NOT USED	
U2	STORM PIPE AND END SECTION	2 | SHEET LA105

GRADING LEGEND:

× 119.93	EXISTING SPOT ELEVATION
120.23	PROPOSED SPOT ELEVATION
2%	PROPOSED SLOPE
LP	LOW POINT
HP	HIGH POINT
TC	TOP OF CURB
BC	BOTTOM OF CURB
G	GUTTER OR GRADE
MEG	MATCH EXISTING GRADE
FL	FLOW LINE (GUTTER)
RIM	RIM ELEVATION
TR	TOP OF RAMP
FV	FIELD VERIFY
ADJ	ADJUST CASTING TO MATCH PROPOSED GRADE
EOP	EDGE OF PAVEMENT
FF	FINISHED FLOOR
STR	STRUCTURE
STM	STORM PIPE
BSC	BOTTOM OF STORMWATER CURB
EOP	EDGE OF PAVEMENT
CO	CLEANOUT
	DRAINAGE FLOW DIRECTION

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PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

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DRAWING NAME:

PLAN AND PROFILE

CERTIFICATION:

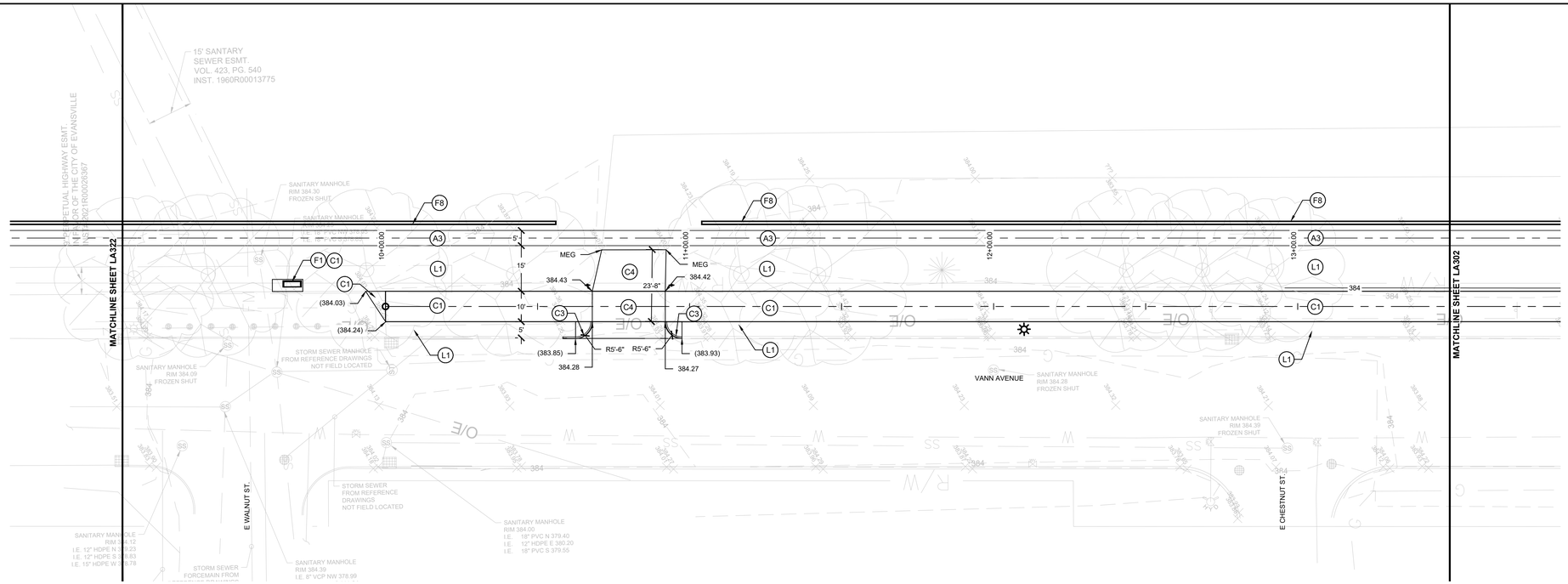
PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

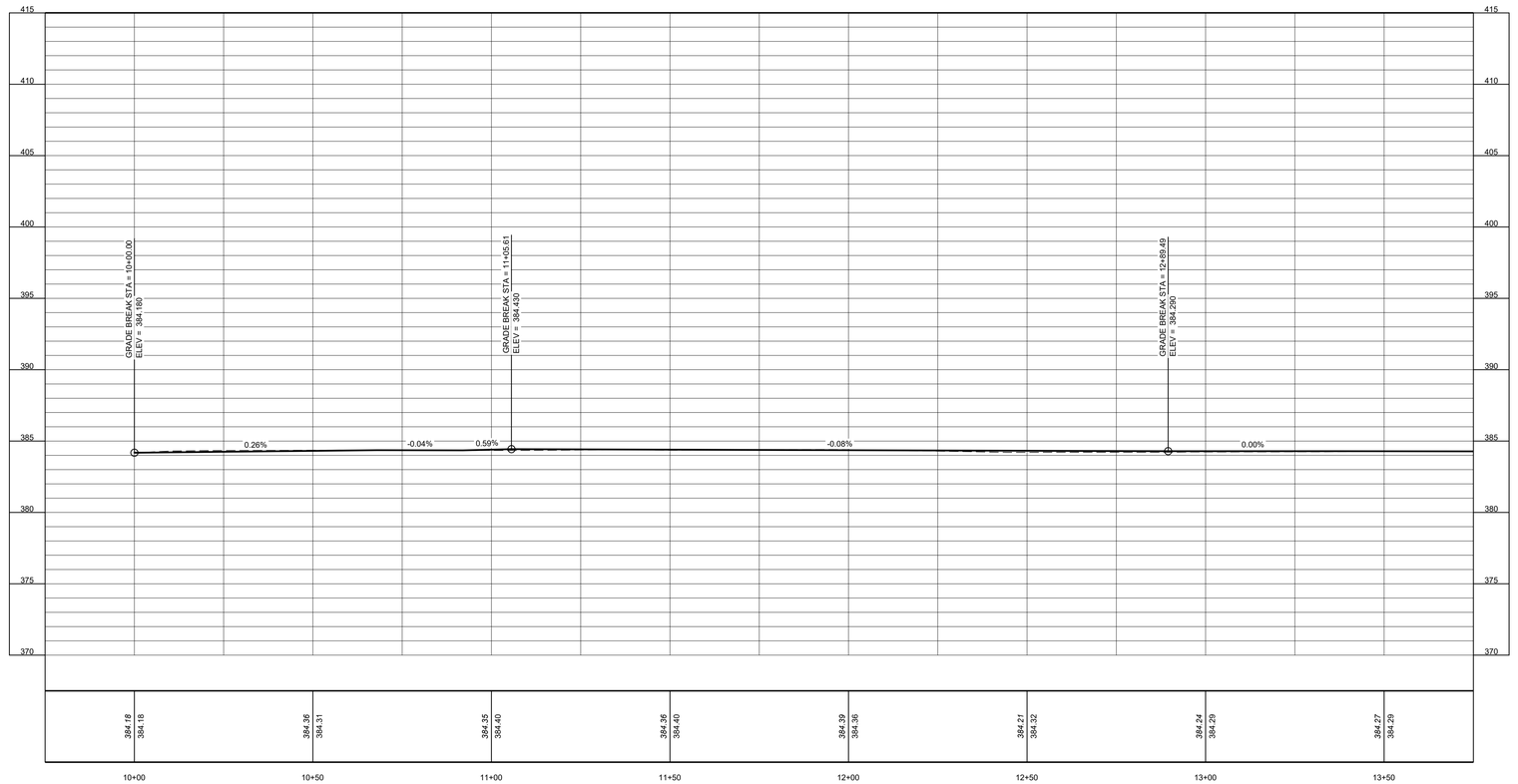
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DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA300

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

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REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
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C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

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DRAWING NAME:

PLAN AND PROFILE

CERTIFICATION:

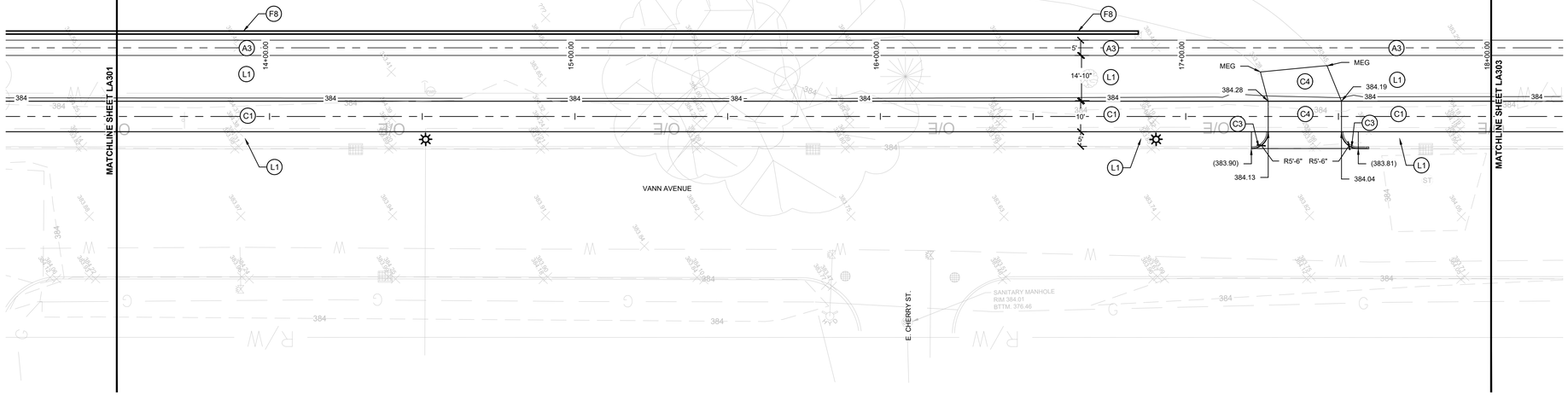
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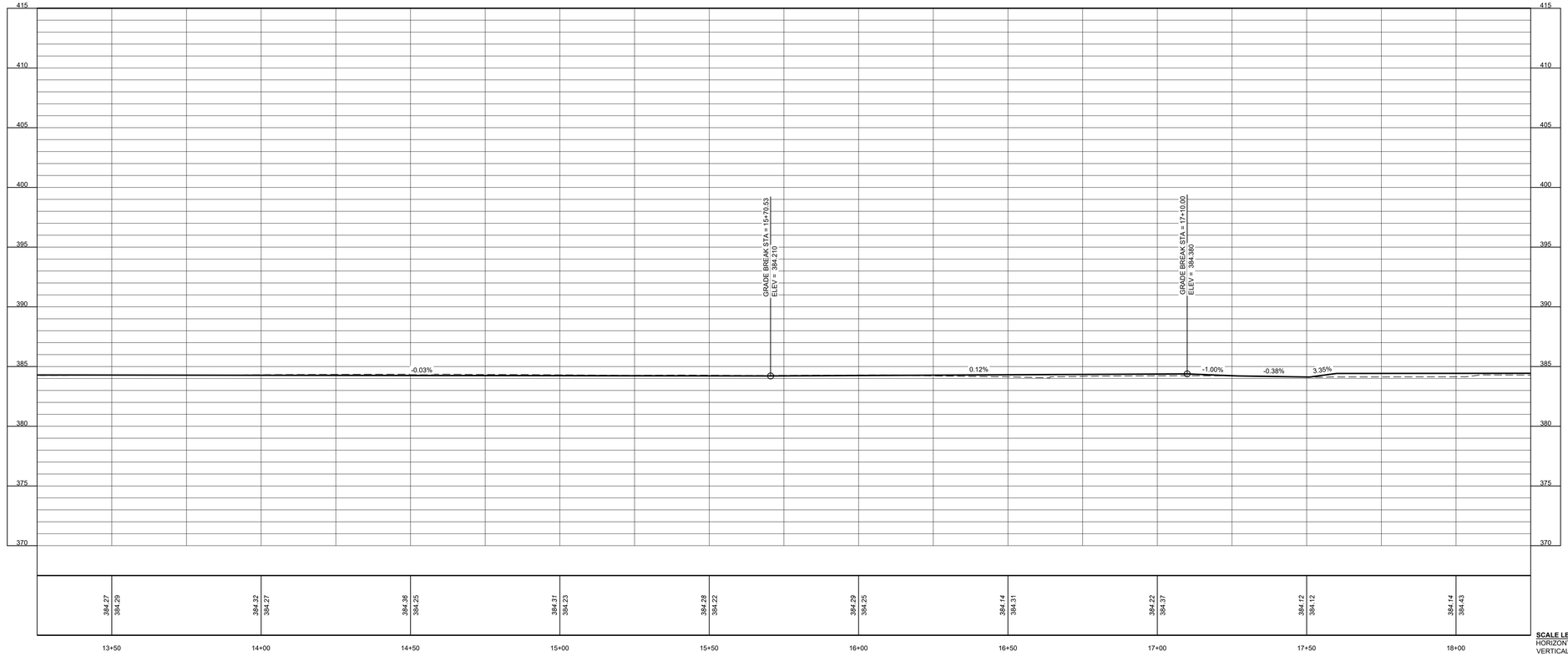
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DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA301

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SCALE LEGEND
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VERTICAL SCALE: 1" = 5'-0"

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REA
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C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM PREPARED BY REA FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE, AND MAY BE USED SOLELY WITH RESPECT TO THIS PROJECT. THE DOCUMENTS MAY NOT BE REPRODUCED OR MODIFIED BY A THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF REA. AUTHORIZED USE OF ELECTRONIC MEDIA OR FILE DOES NOT GUARANTEE THAT THESE FILES CONTAIN COMPLETE AND ACCURATE INFORMATION. IN ORDER TO INSURE THE ACCURACY OF THE INFORMATION CONTAINED AND THAT NO CHANGES OR MODIFICATIONS HAVE BEEN MADE, THESE FILES MUST BE COMPARED TO THE PROJECT'S CONTRACT DOCUMENTS WITH STAMPED AND SEALED CERTIFICATION AND APPLICABLE APPROVED MODIFICATIONS.

DRAWING NAME:

PLAN AND PROFILE

CERTIFICATION:

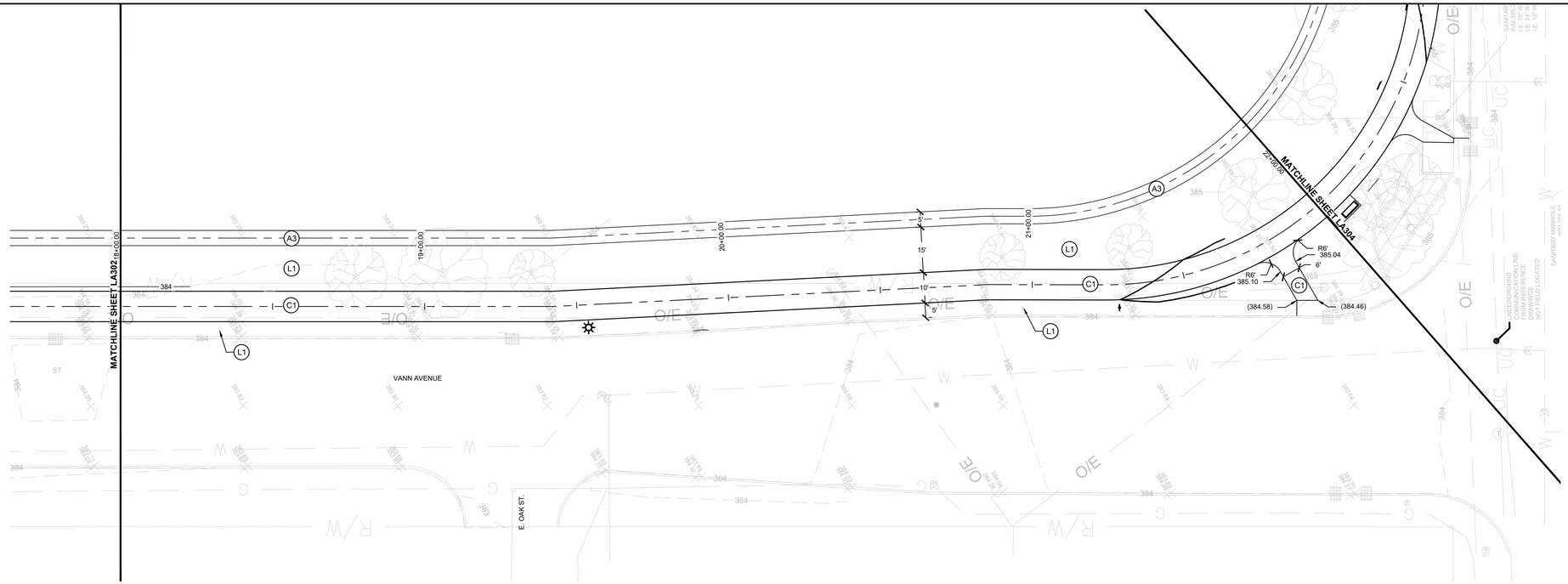
PETER M. ANDRIOT
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

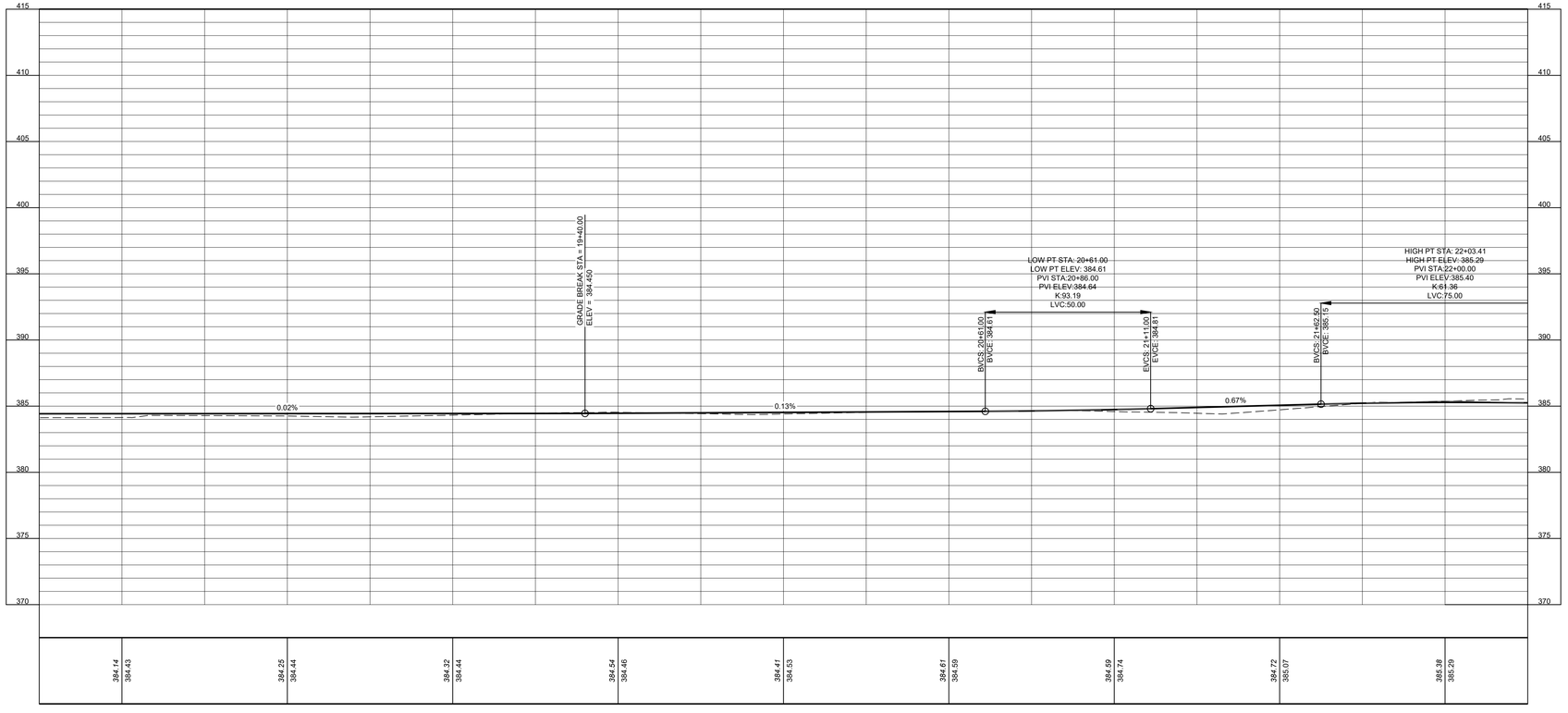
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA302

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA300 - Plan And Profile

PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

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PLAN AND PROFILE

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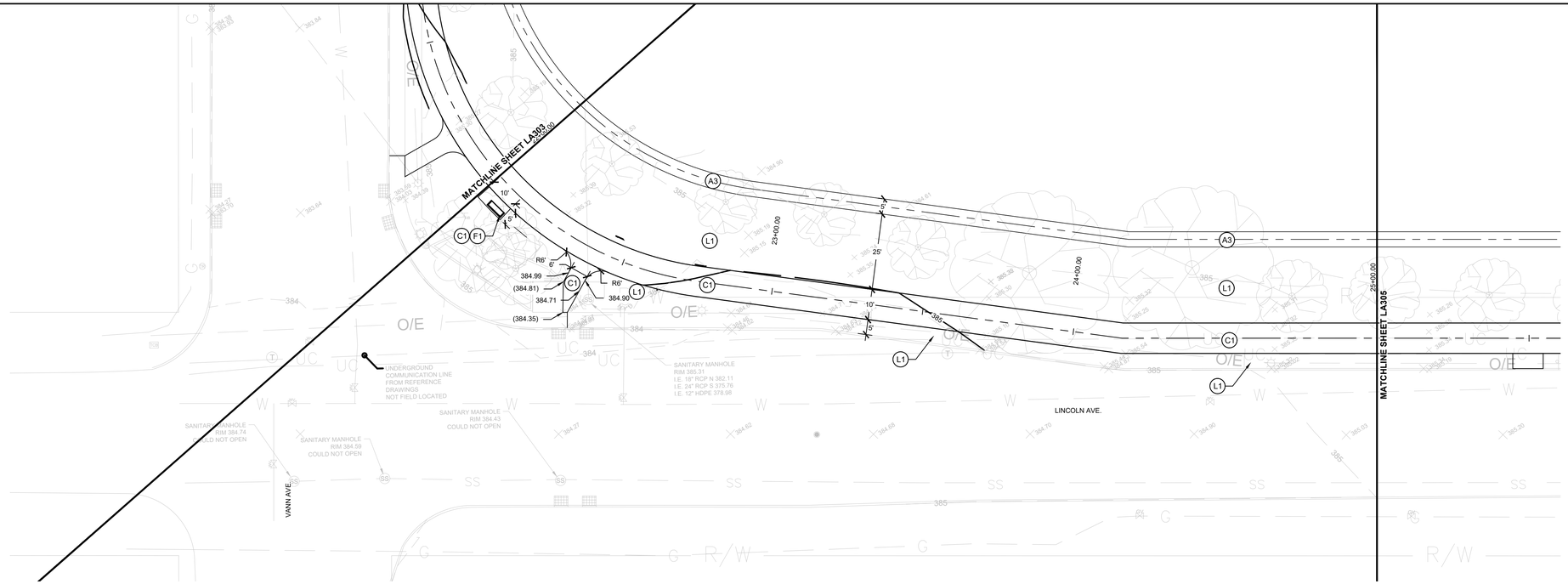
PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

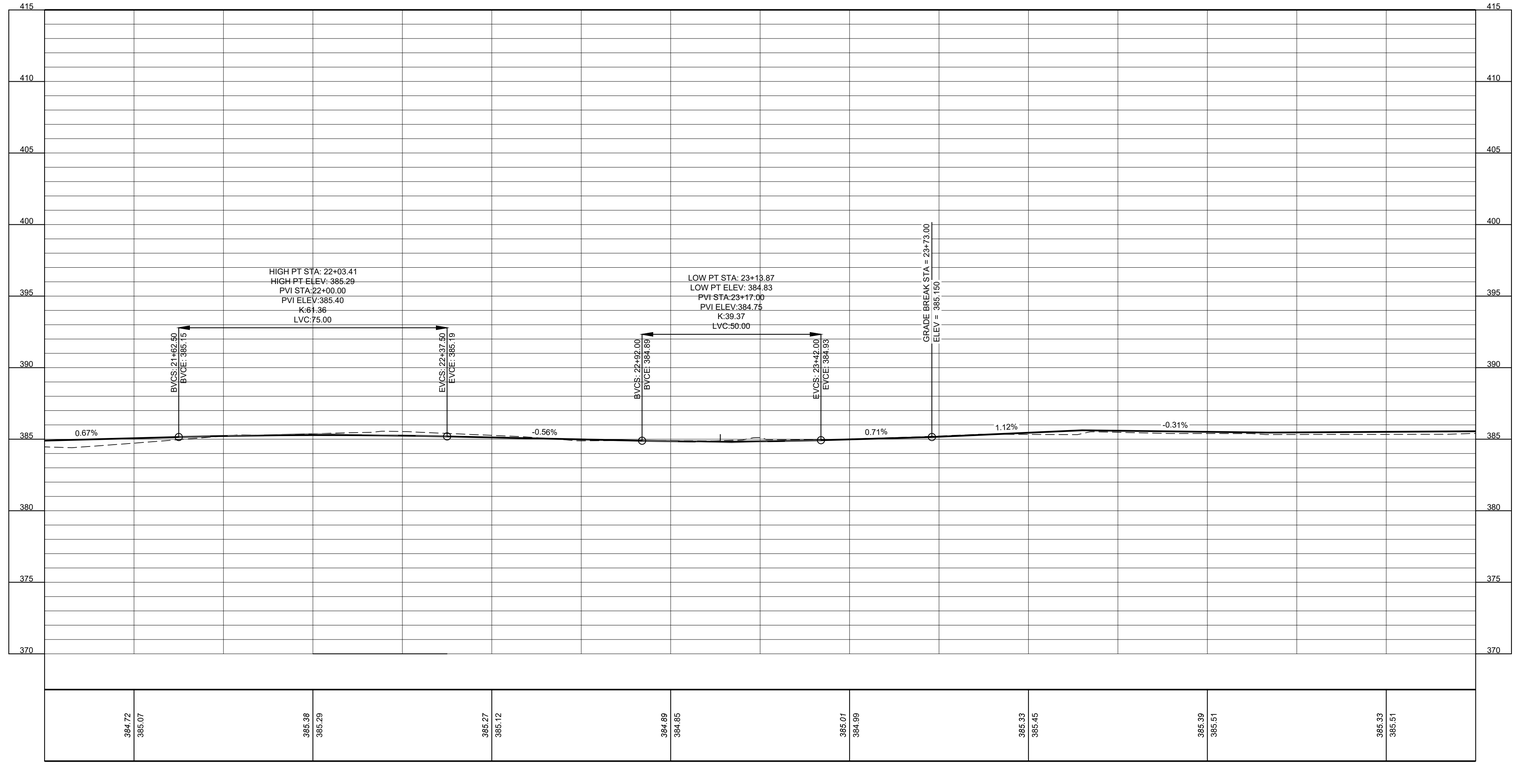
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA303

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

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PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

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100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

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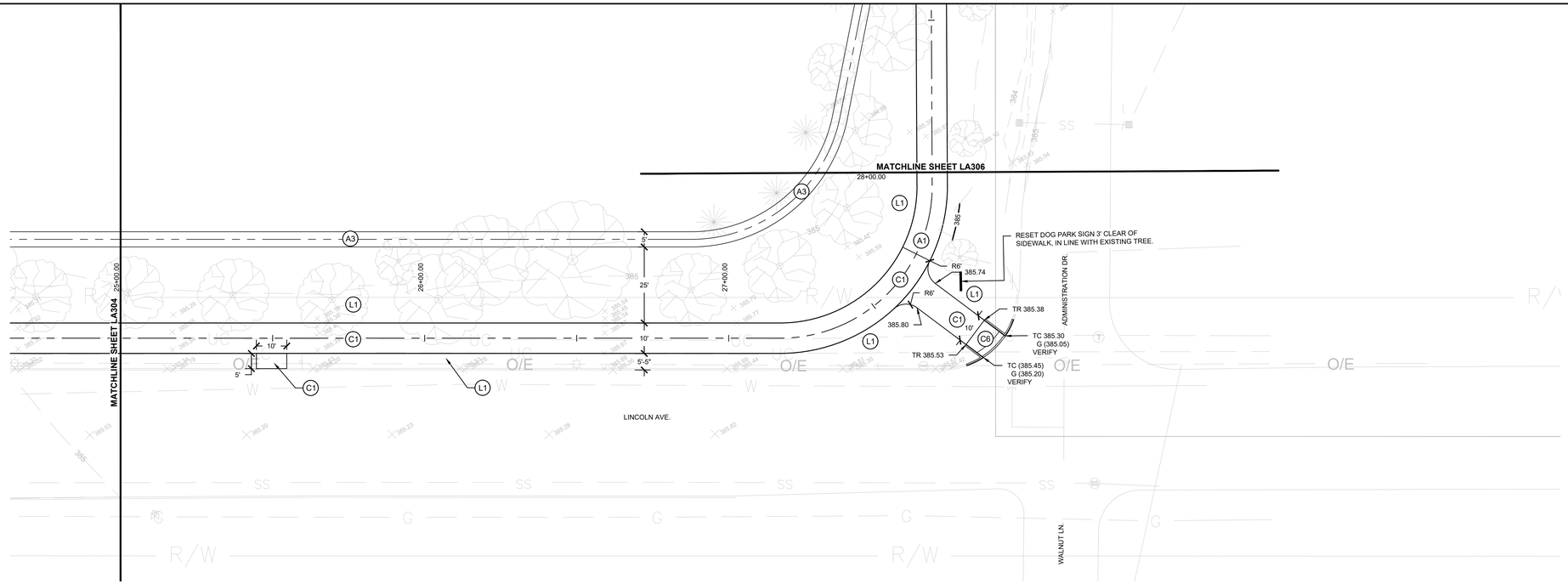
PETER M. ANDRIOT
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

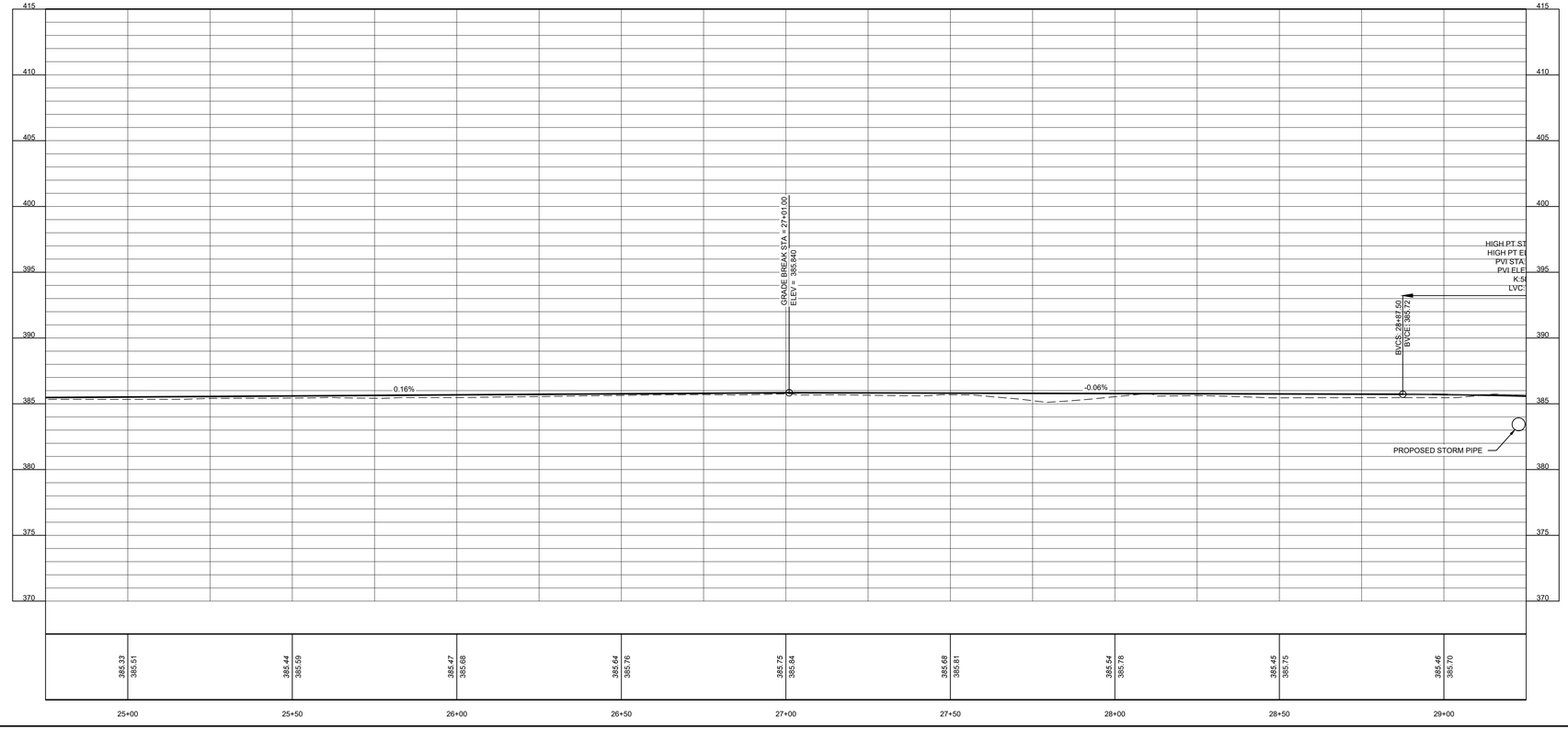
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA304

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

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PREPARED BY:

REA
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URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
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P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
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Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

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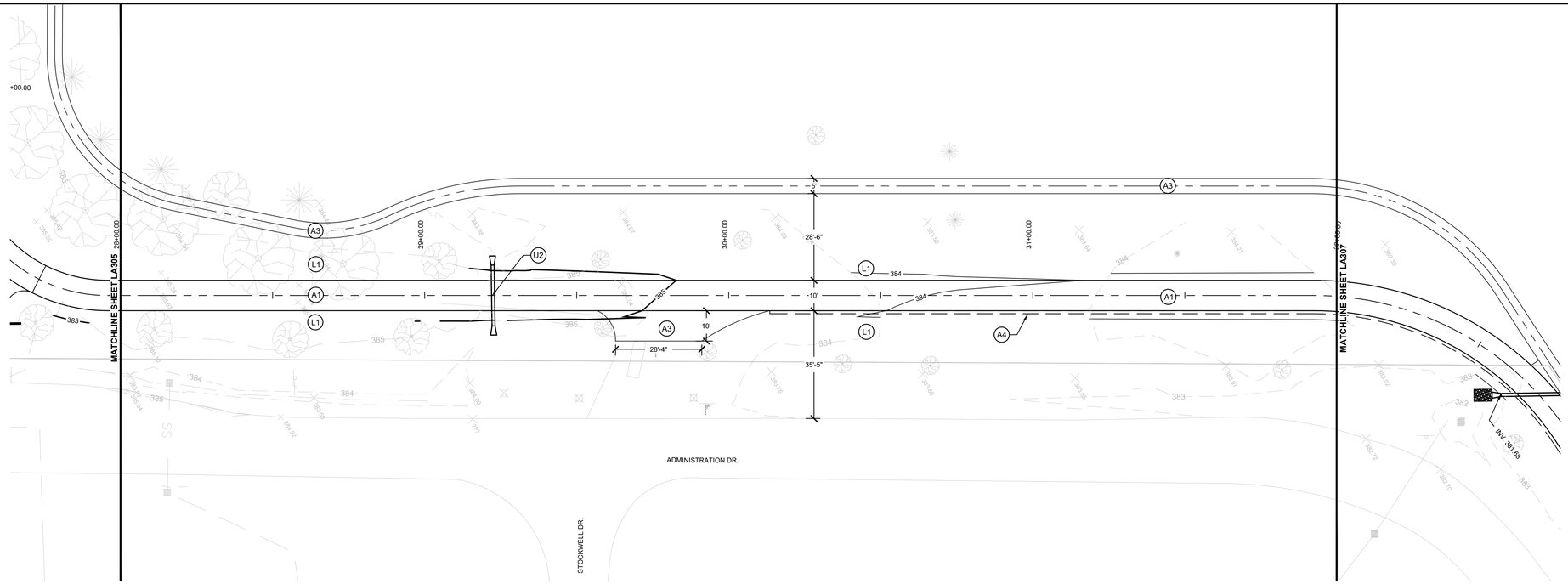
PETER M. ANDRIOT III
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No. 20800187
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LANDSCAPE ARCHITECT

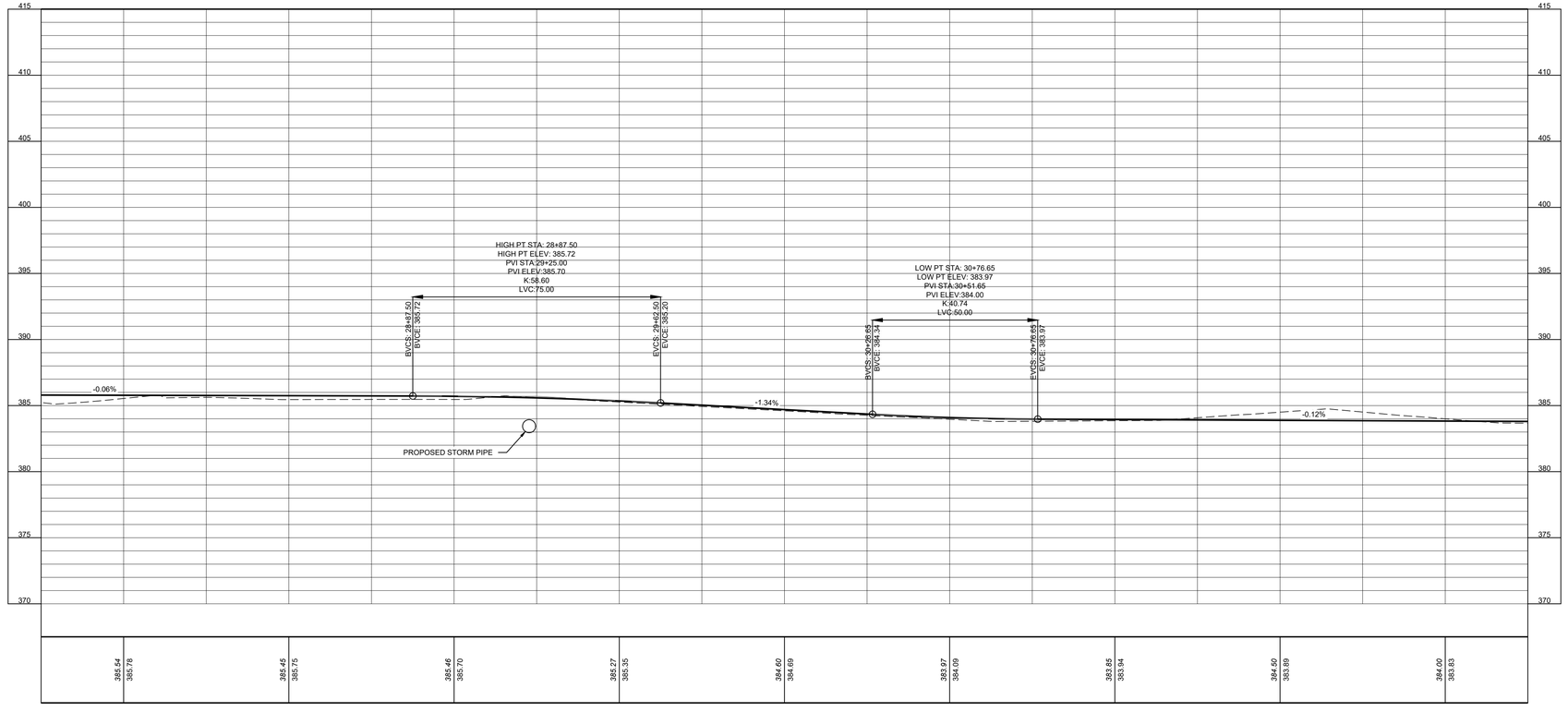
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA305

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

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PREPARED BY:

REA
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PREPARED FOR:

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C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

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PLAN AND PROFILE

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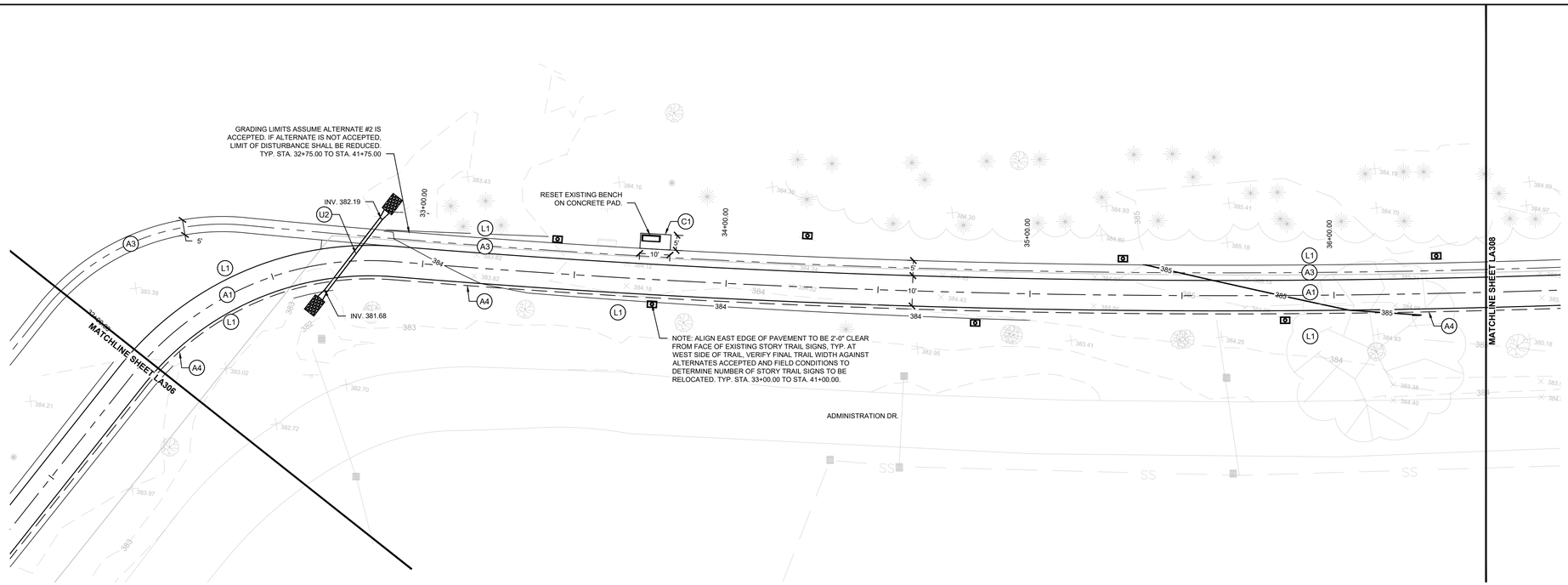
PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

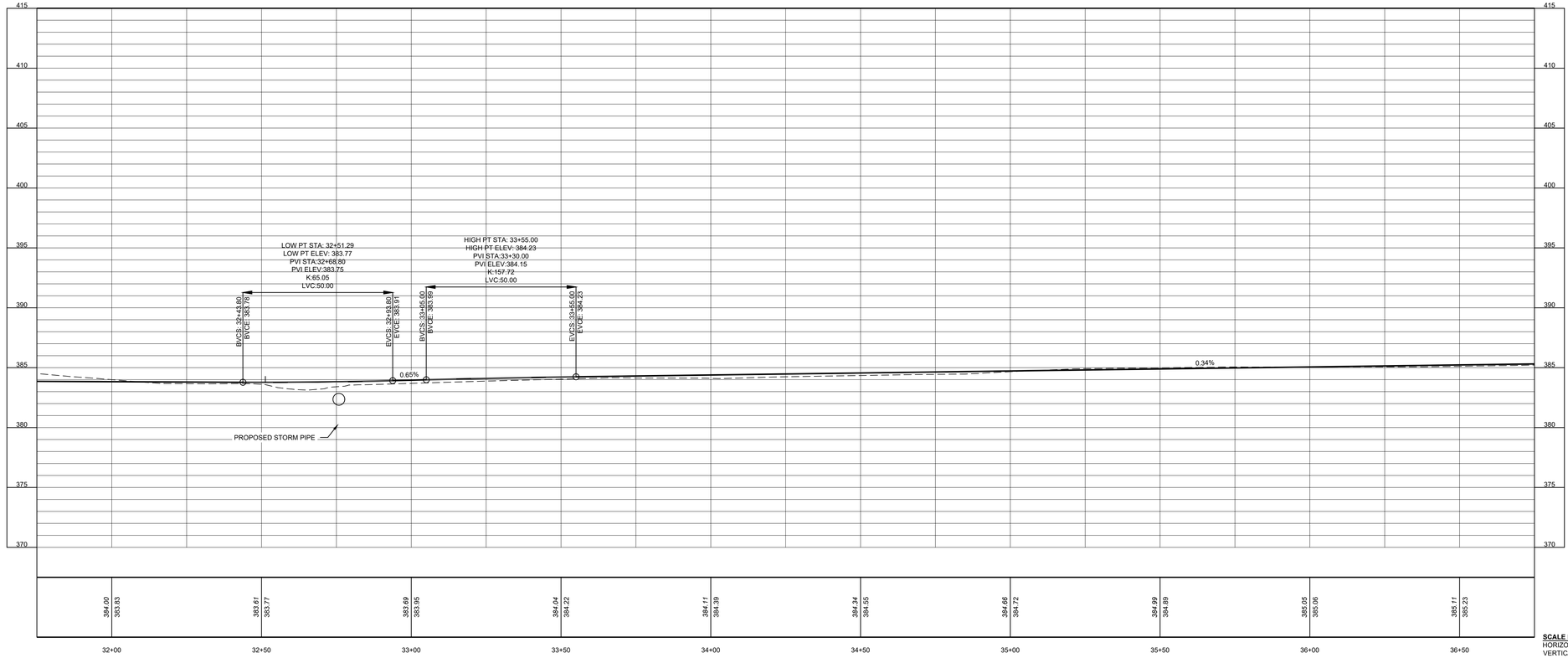
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA306

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

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PREPARED BY:

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815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'

SCALE: 1" = 20'

REVISIONS:

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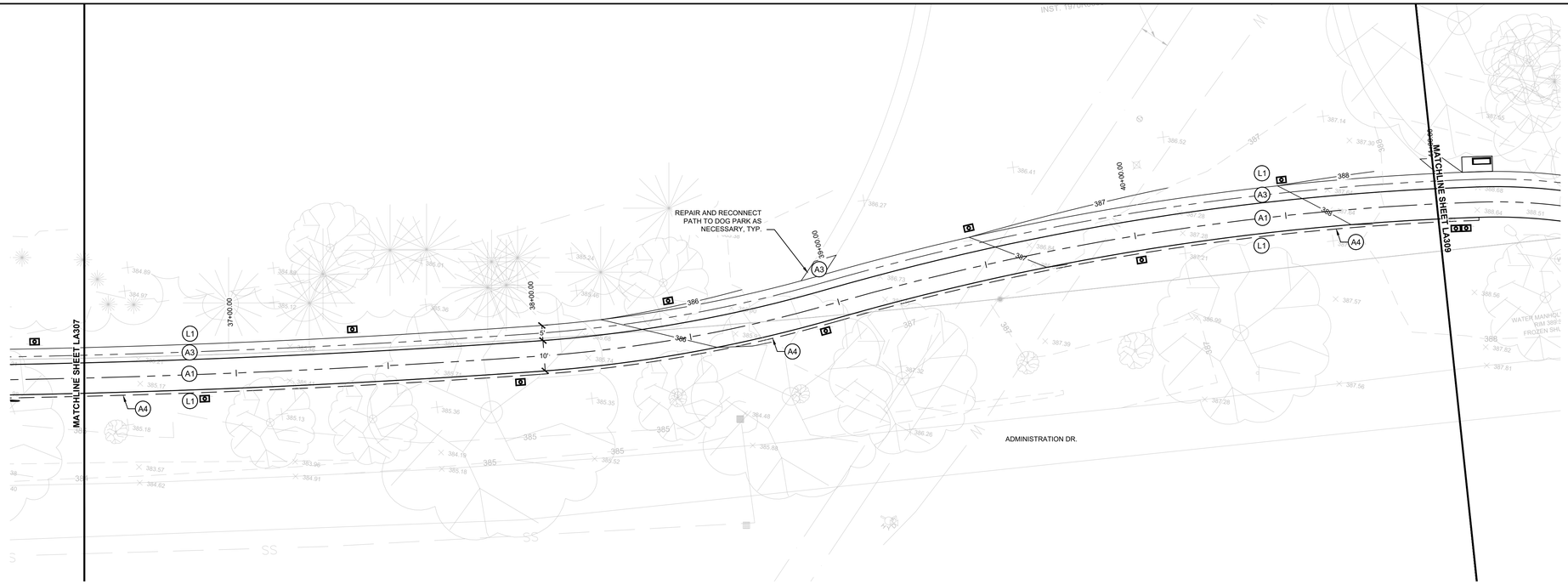
PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

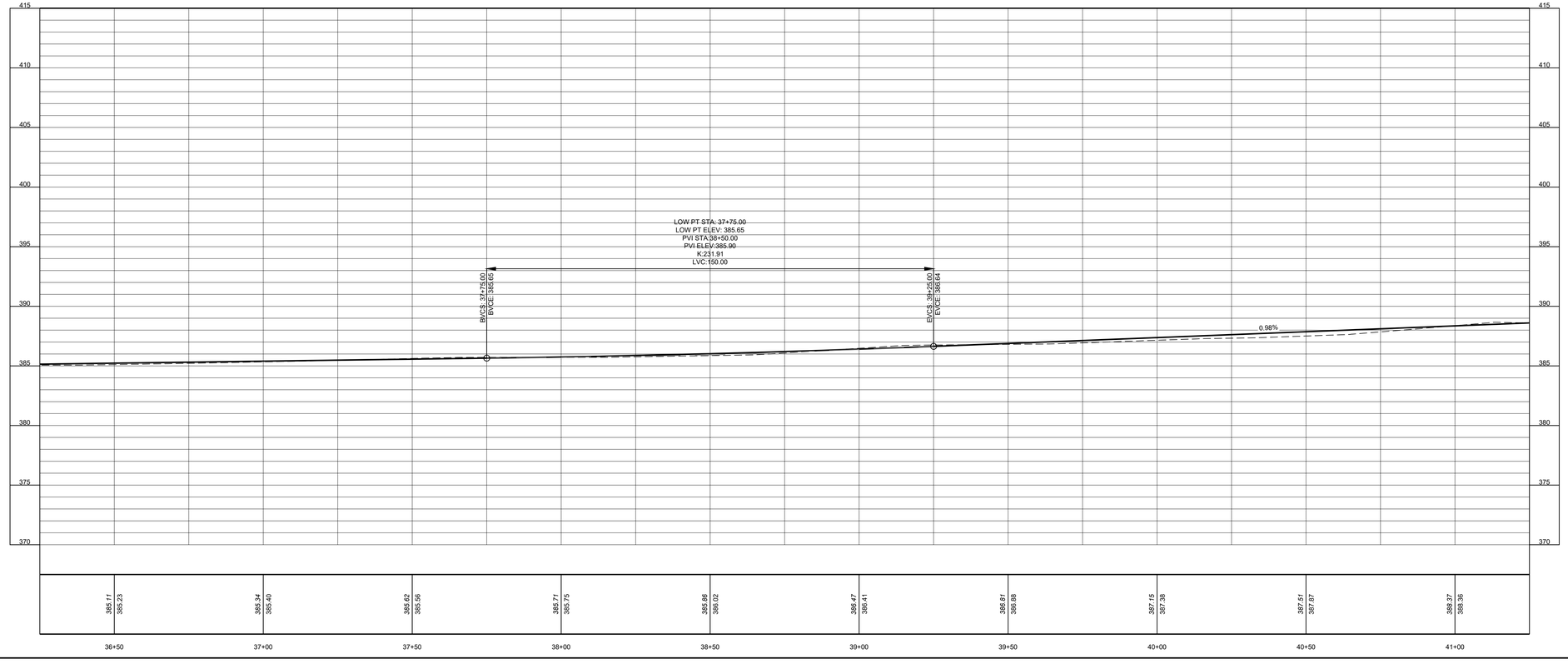
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA307

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

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PREPARED BY:

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P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

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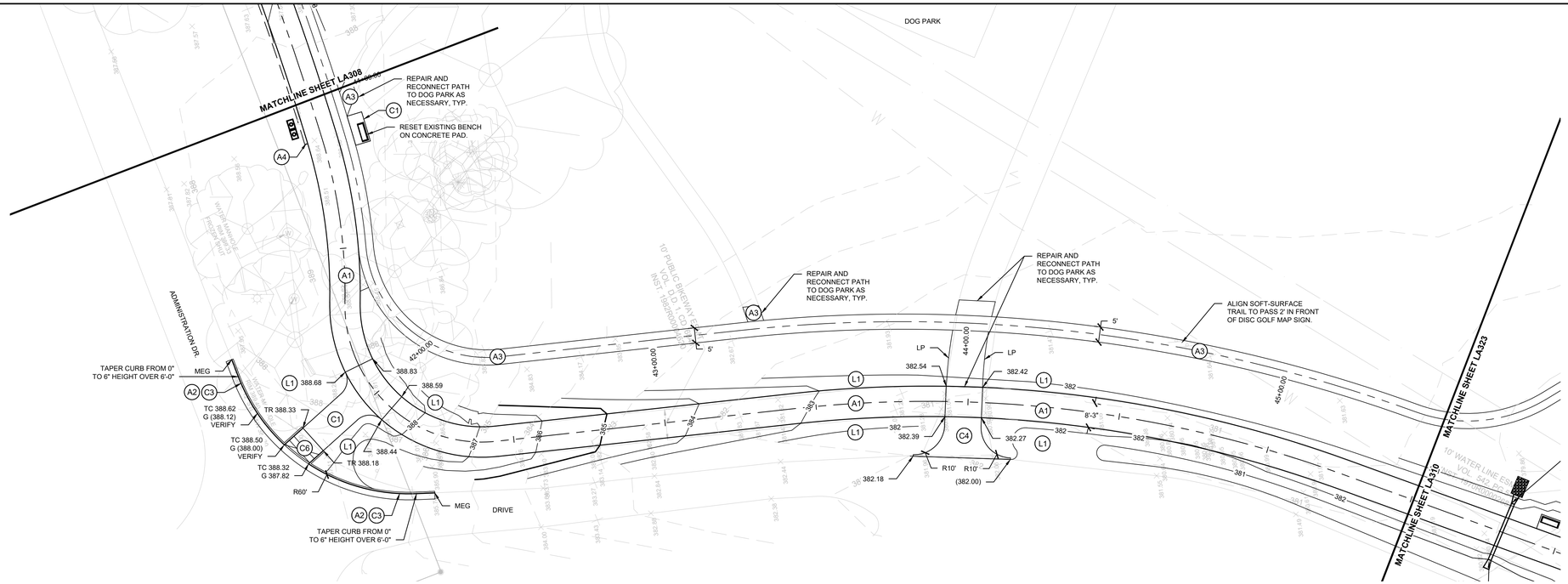
PETER M. ANDRIOT II
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No. 20800187
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LANDSCAPE ARCHITECT

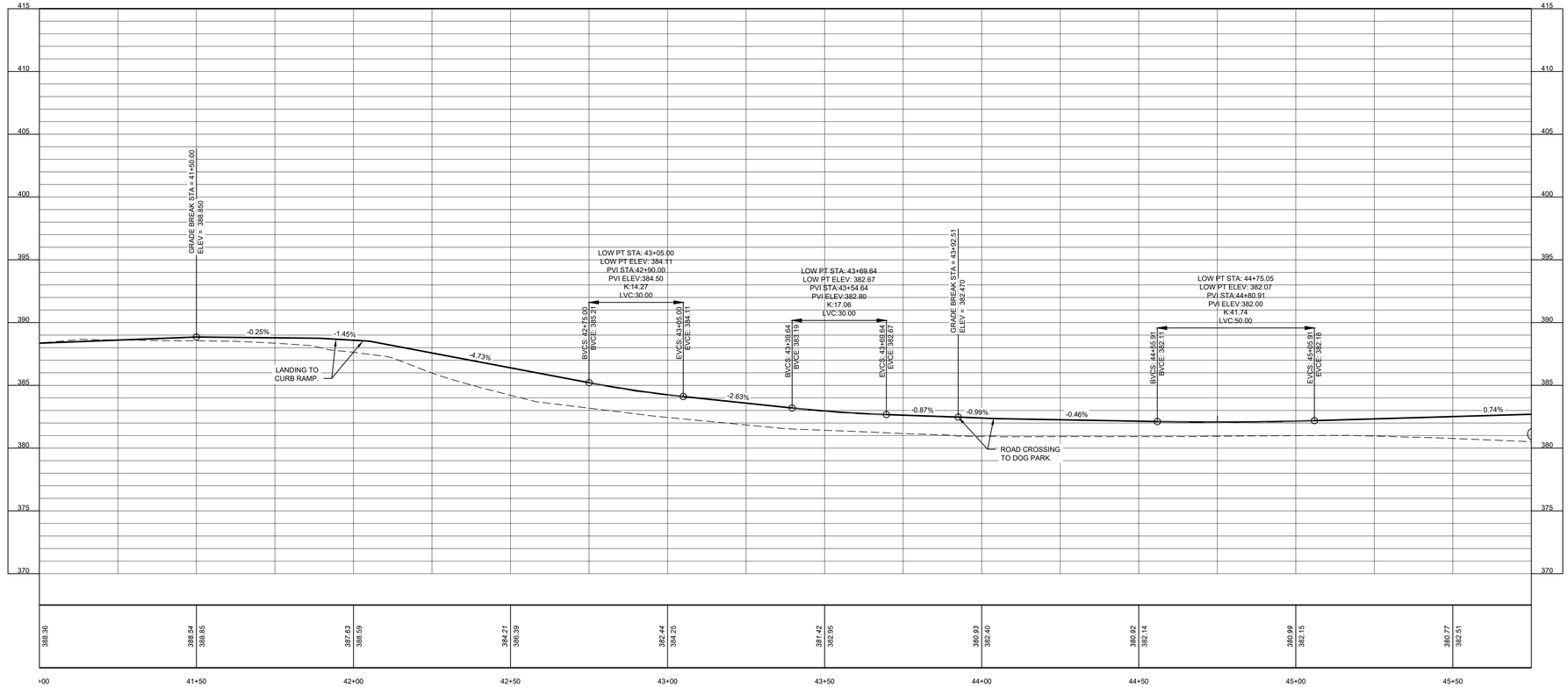
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA308

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA300 - Plan And Profile

PREPARED BY:

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CONSULTANT:

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2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH
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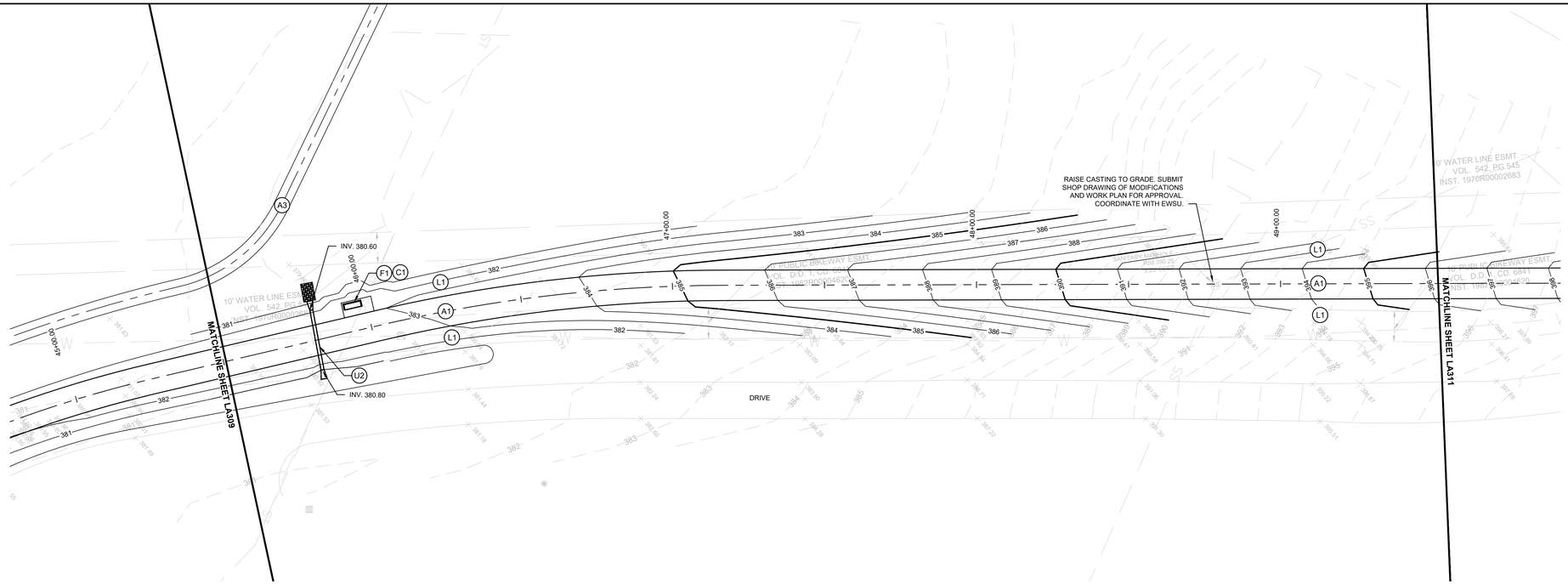
PETER M. ANDRIOT III
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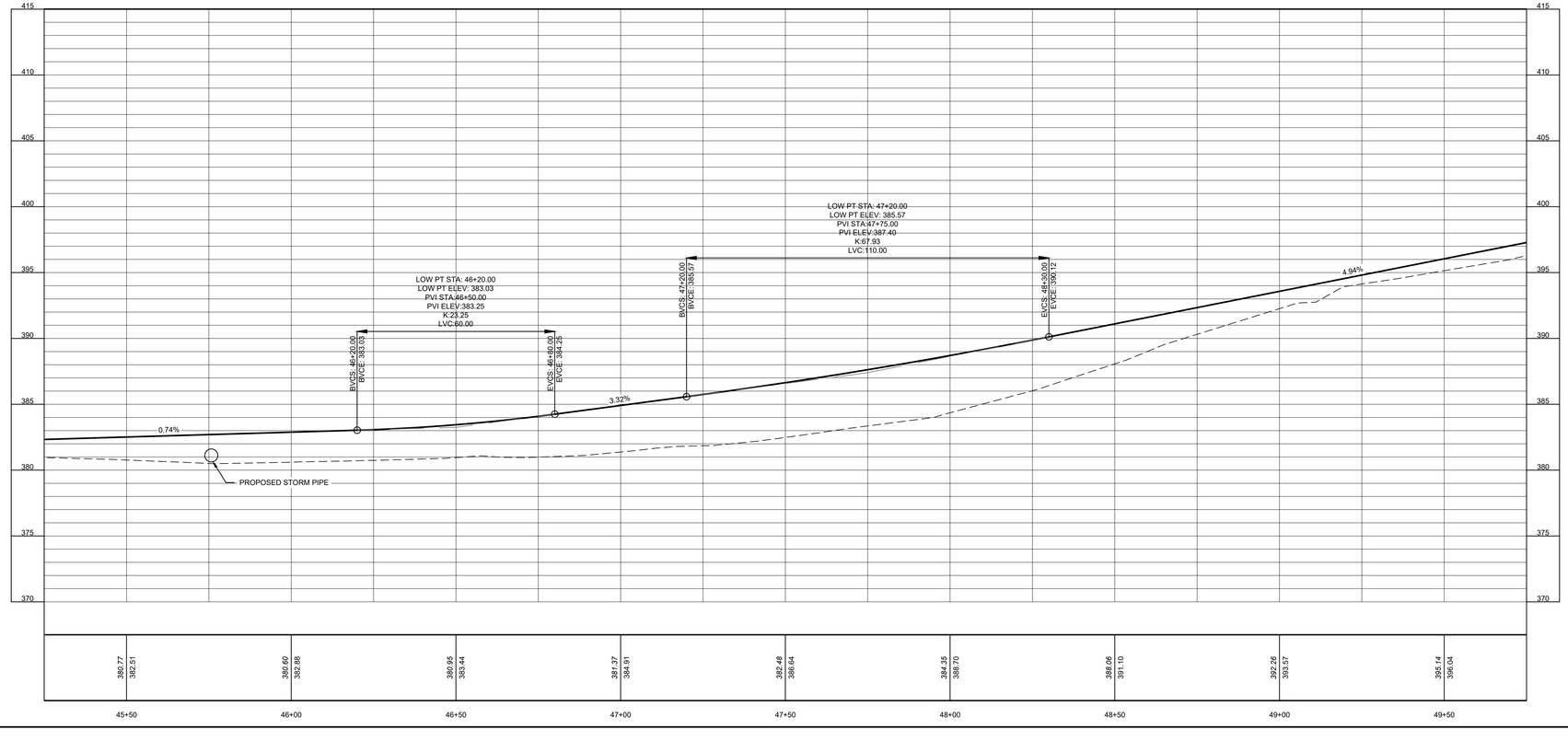
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA309

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA300 - Plan And Profile

PREPARED BY:

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CONSULTANT:

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2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
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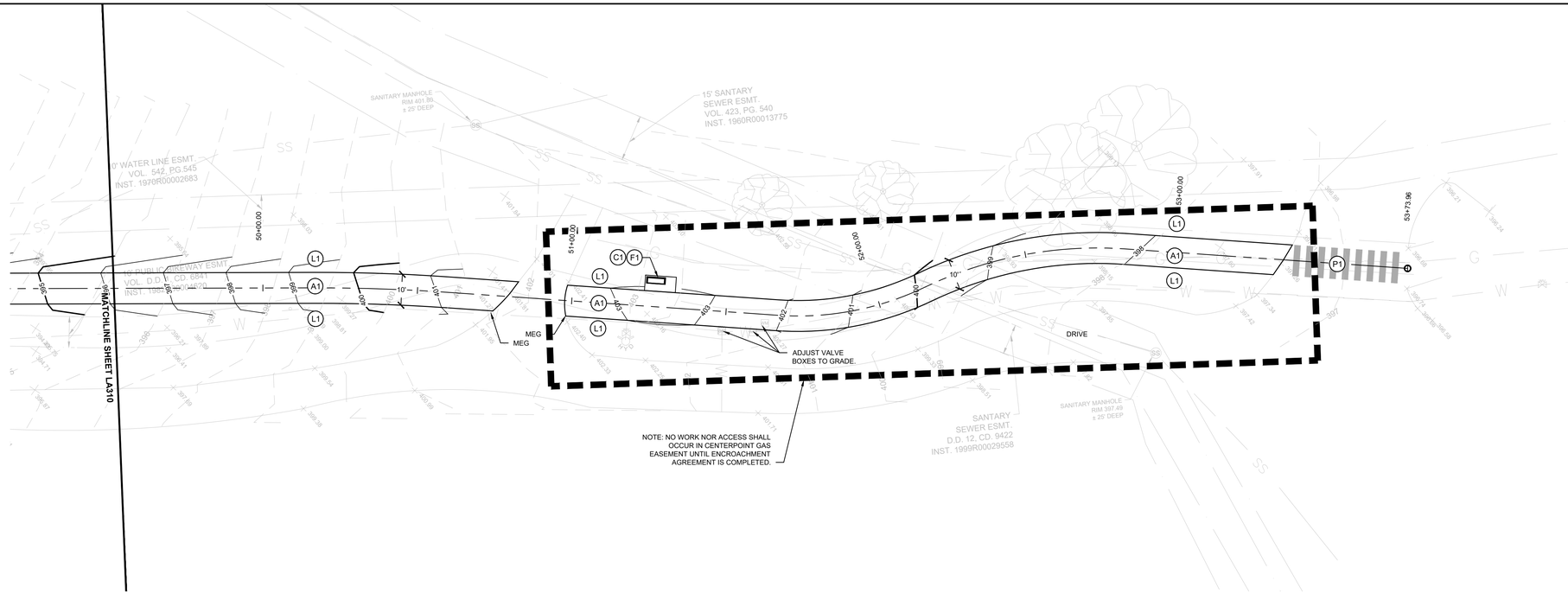
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INDIANA
LANDSCAPE ARCHITECT

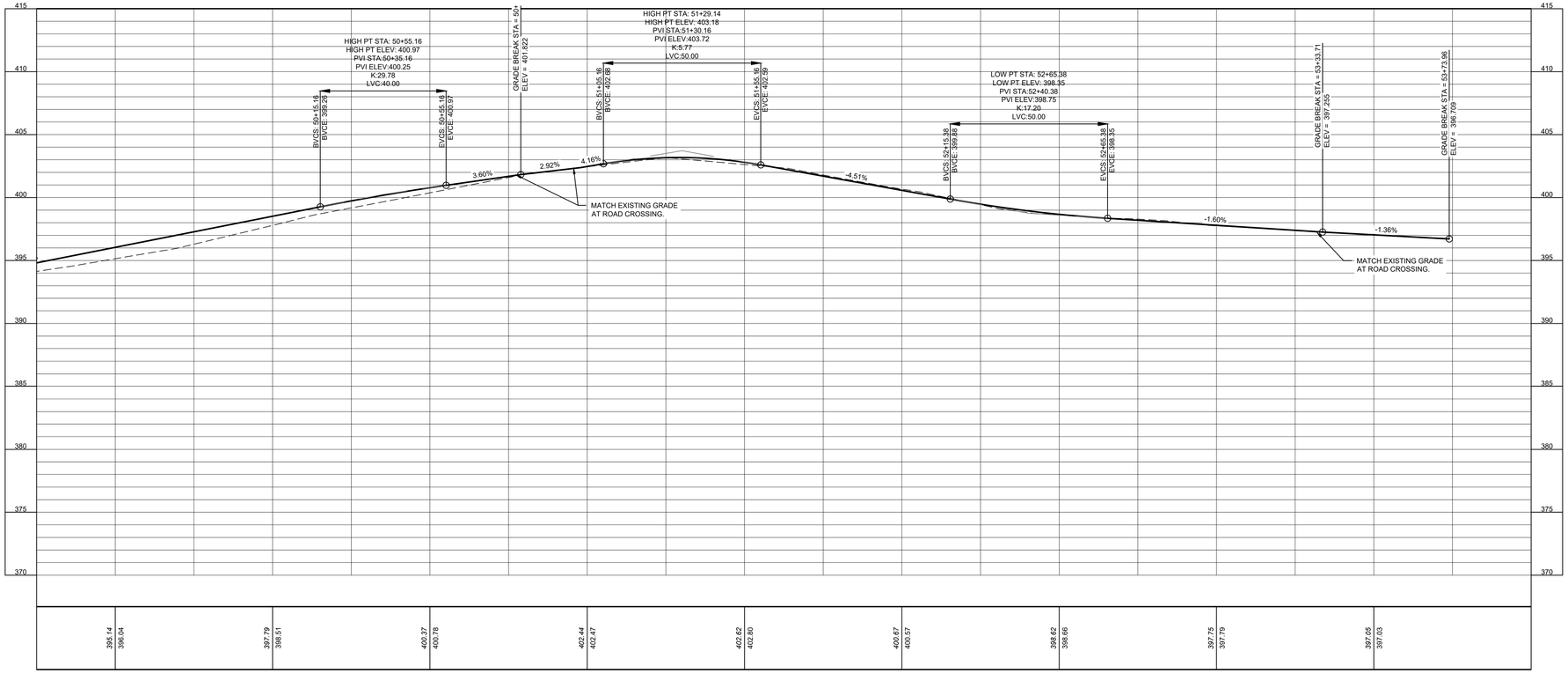
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA310

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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA300 - Plan And Profile

SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

PLAN AND PROFILE

CERTIFICATION:

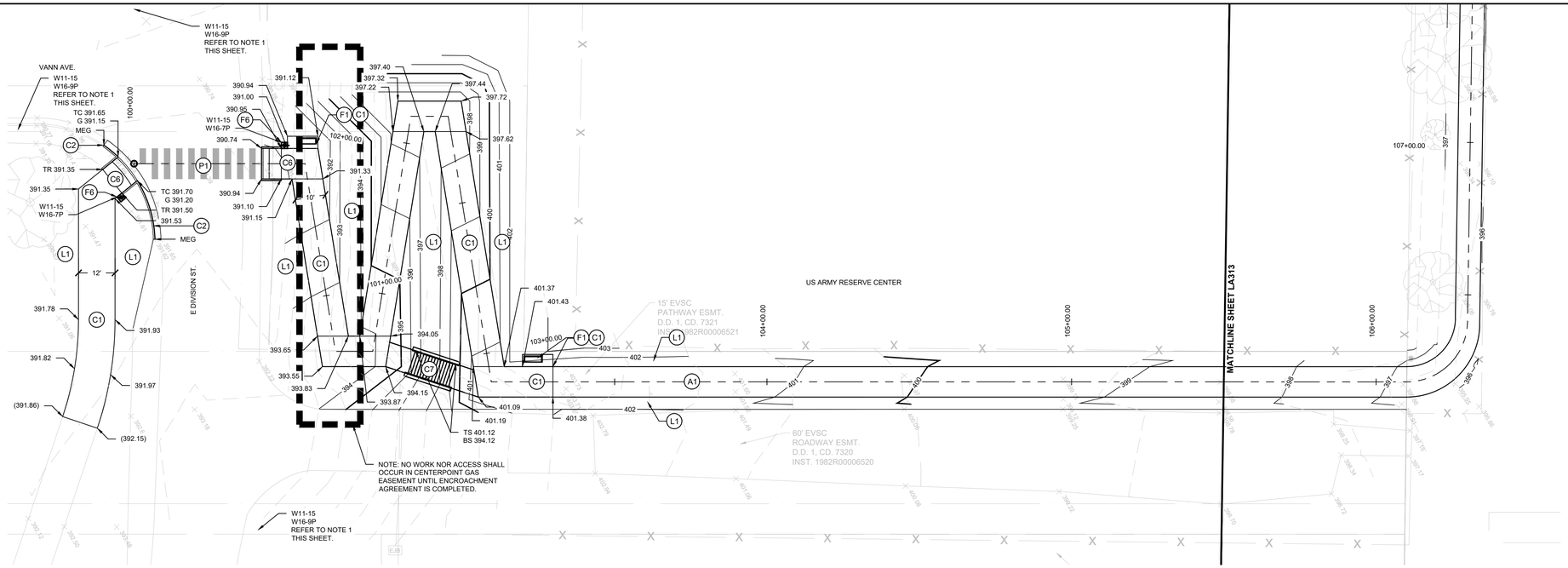
PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

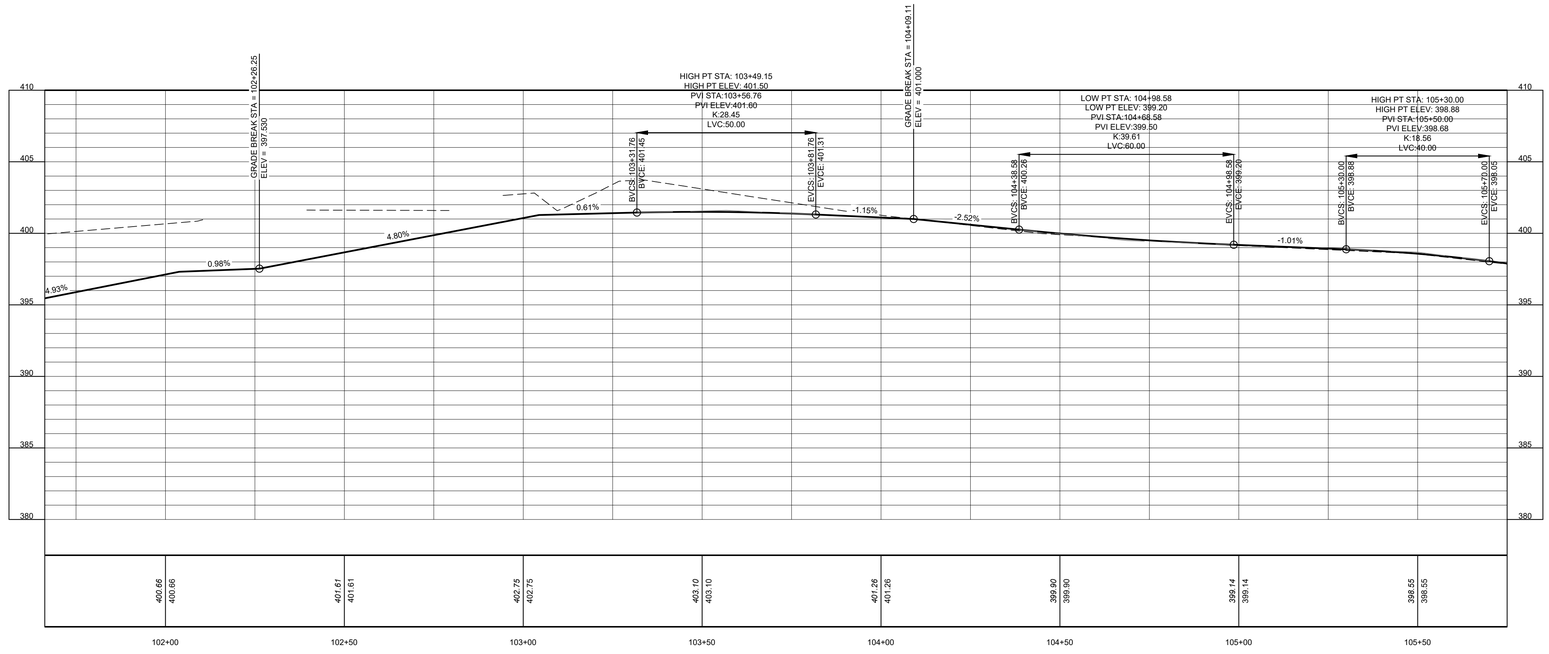
LA311

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NOTES:

1. SIGN LOCATION IS OUTSIDE OF VIEW LIMTS. CONTRACTOR TO COORDINATE WITH ARCHITECT AND CITY ENGINEER ON FINAL LOCATION IN THE FIELD.



SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

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100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

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DRAWING NAME:

PLAN AND PROFILE

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

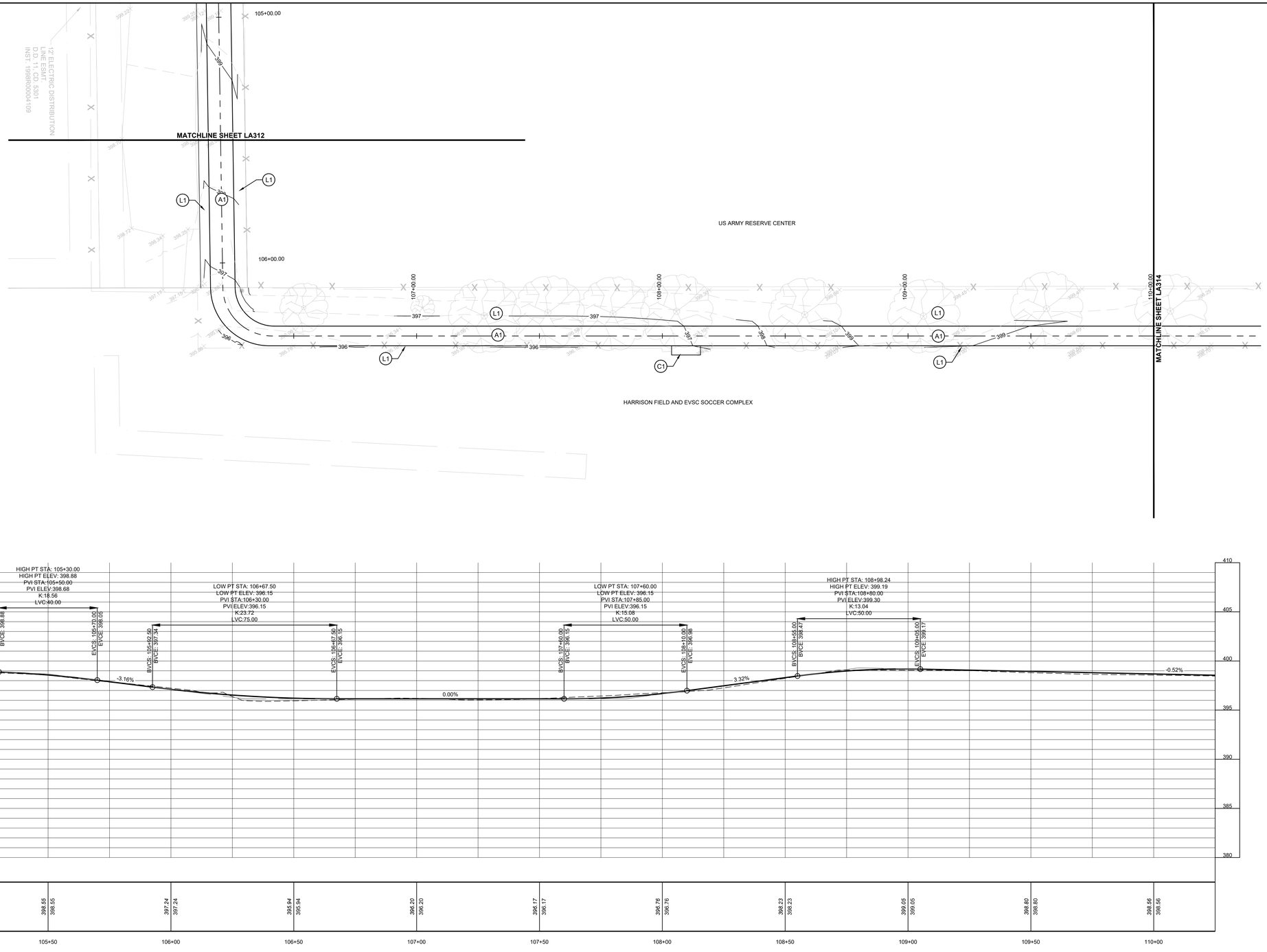
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA312

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA312 - Plan And Profile (Mid)

PREPARED BY:

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PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

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SCALE: 1" = 20'

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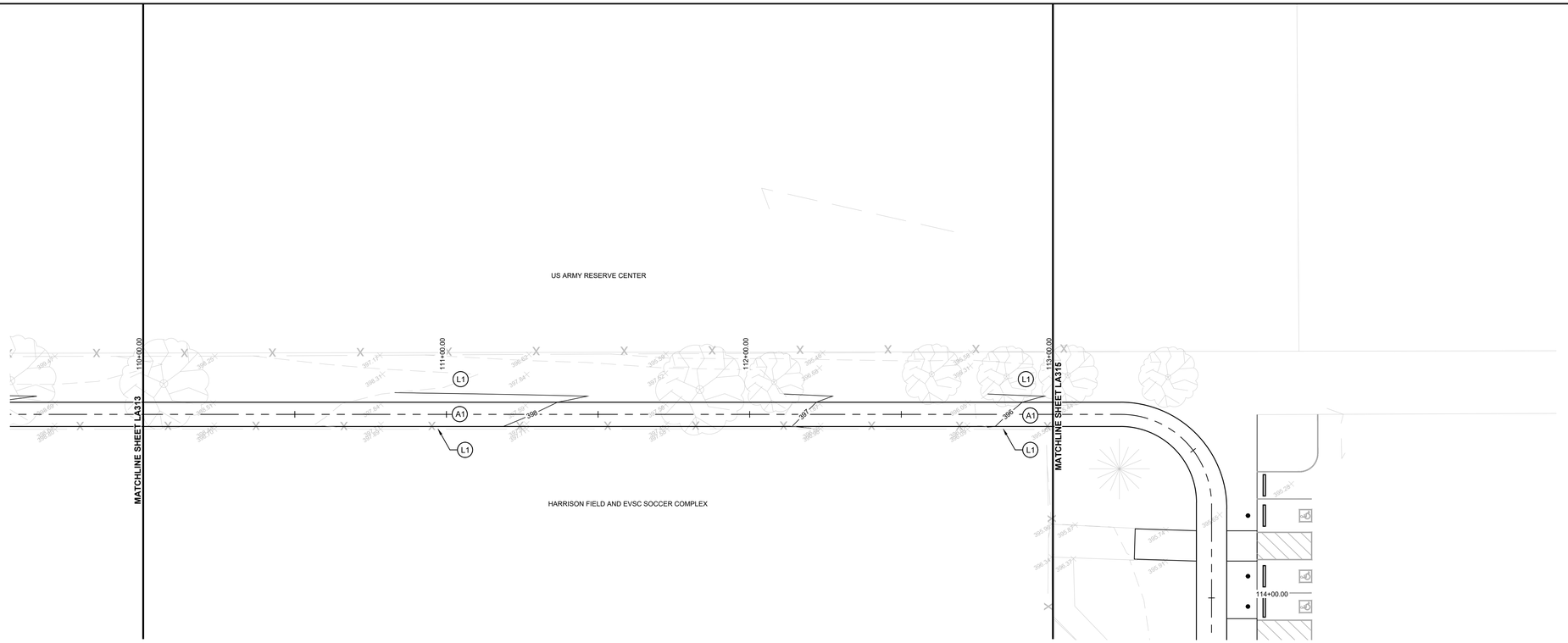
PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

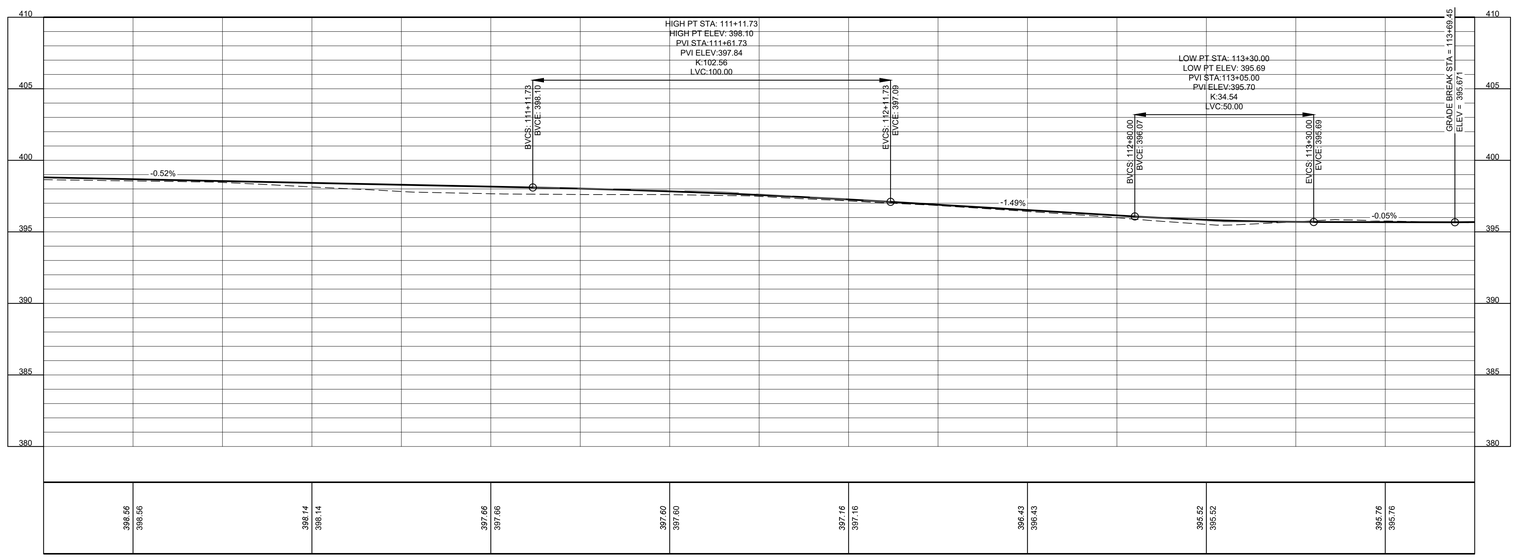
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA313

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

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PREPARED BY:

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P 502.561.8676 / REASITE.COM

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CONSULTANT:

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2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

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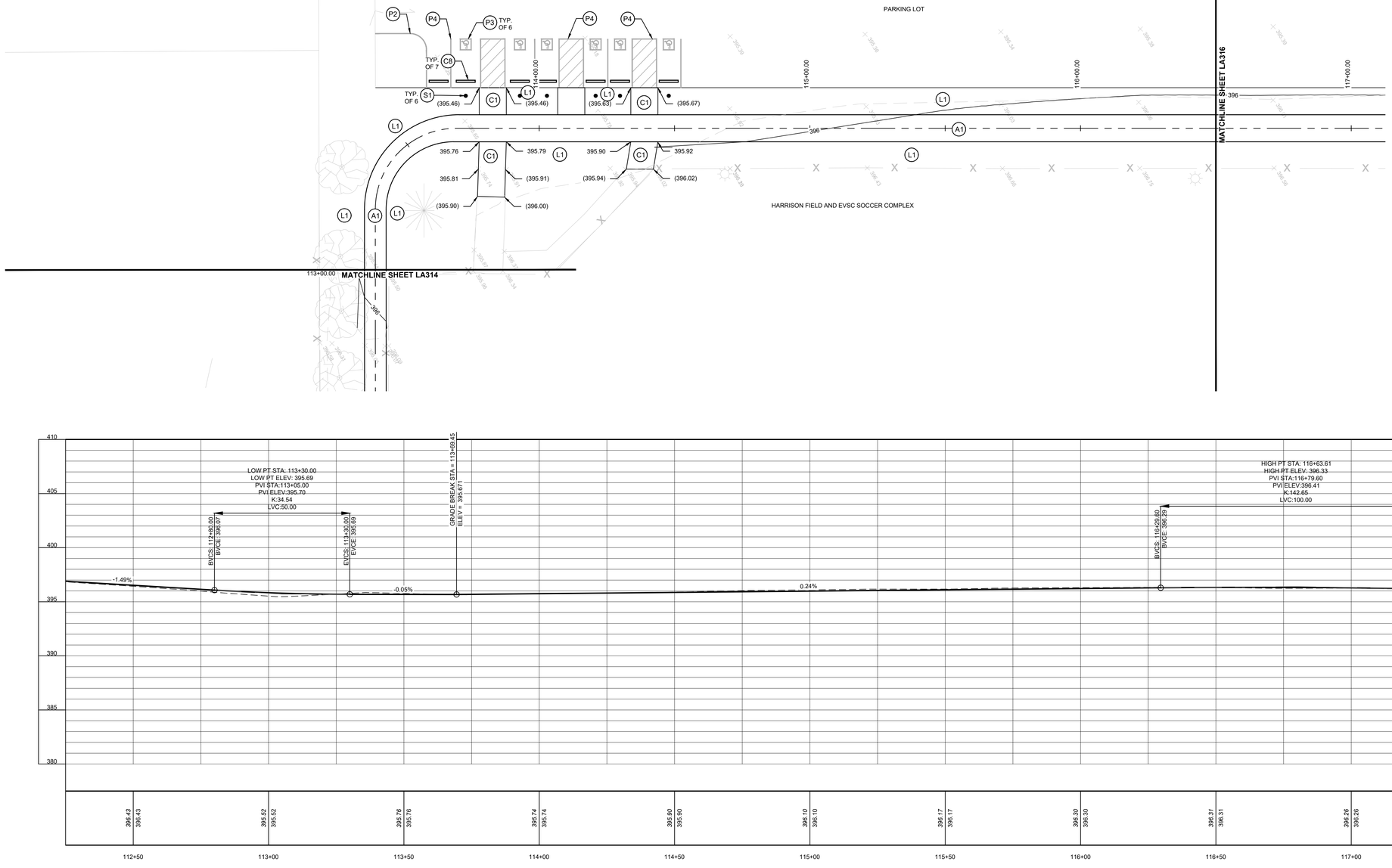
PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA314

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

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PREPARED BY:

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P 502.561.8676 / REASITE.COM

PREPARED FOR:

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C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'
SCALE: 1" = 20'

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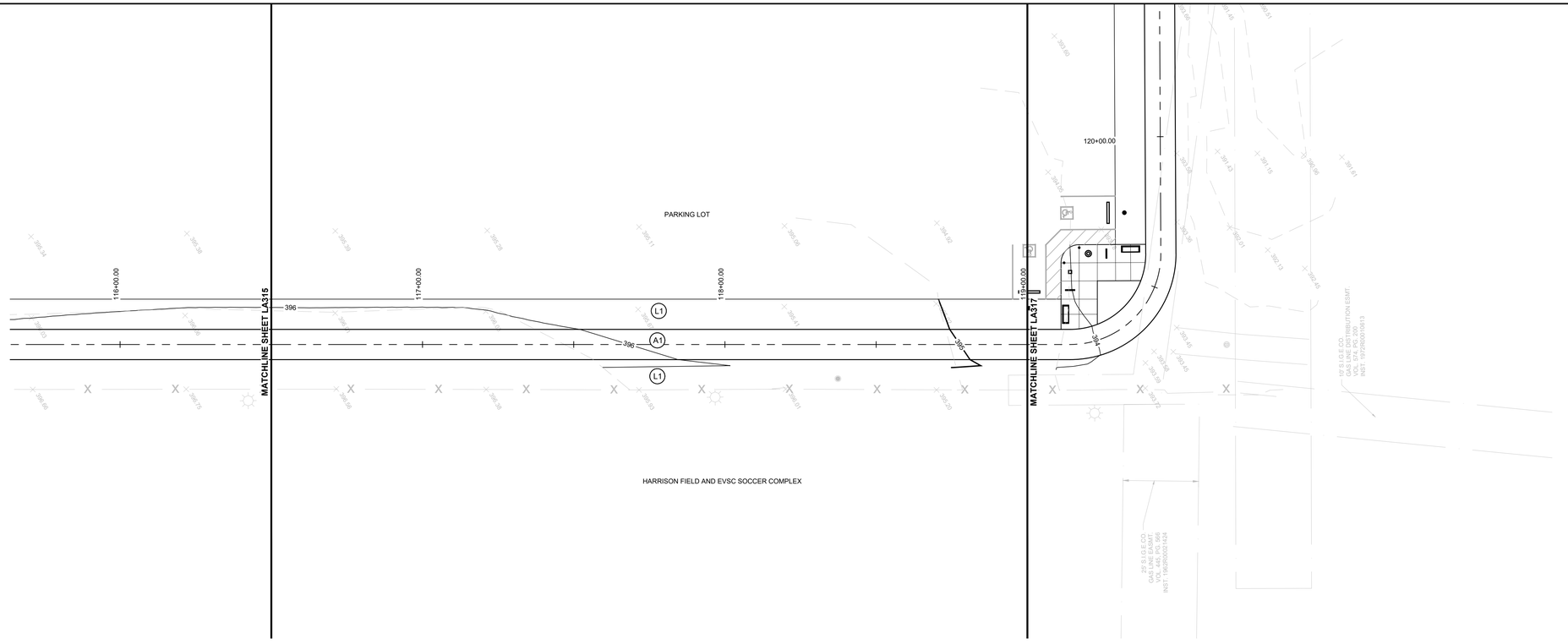
PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

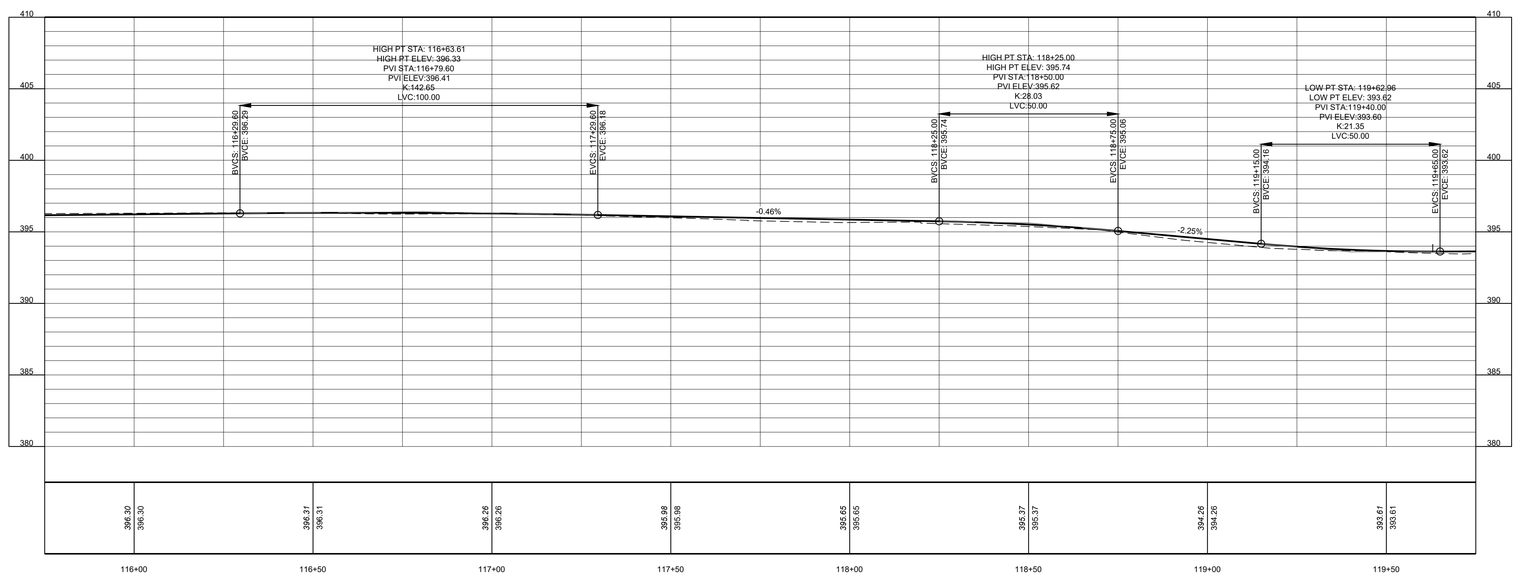
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA315

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

PREPARED BY:

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RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

PLAN AND PROFILE

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

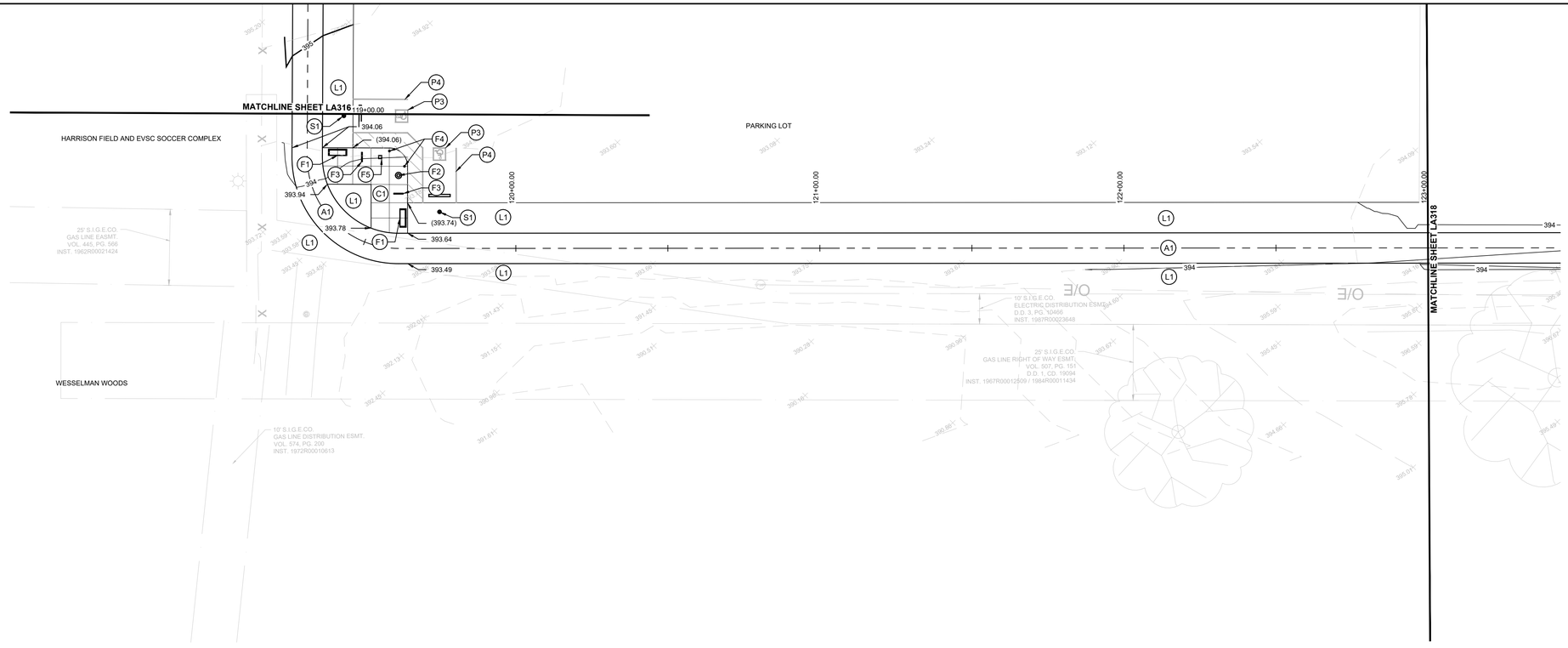
REA PROJECT #:	2024-1766
DATE:	03/31/2025
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REVIEWED BY:	PA

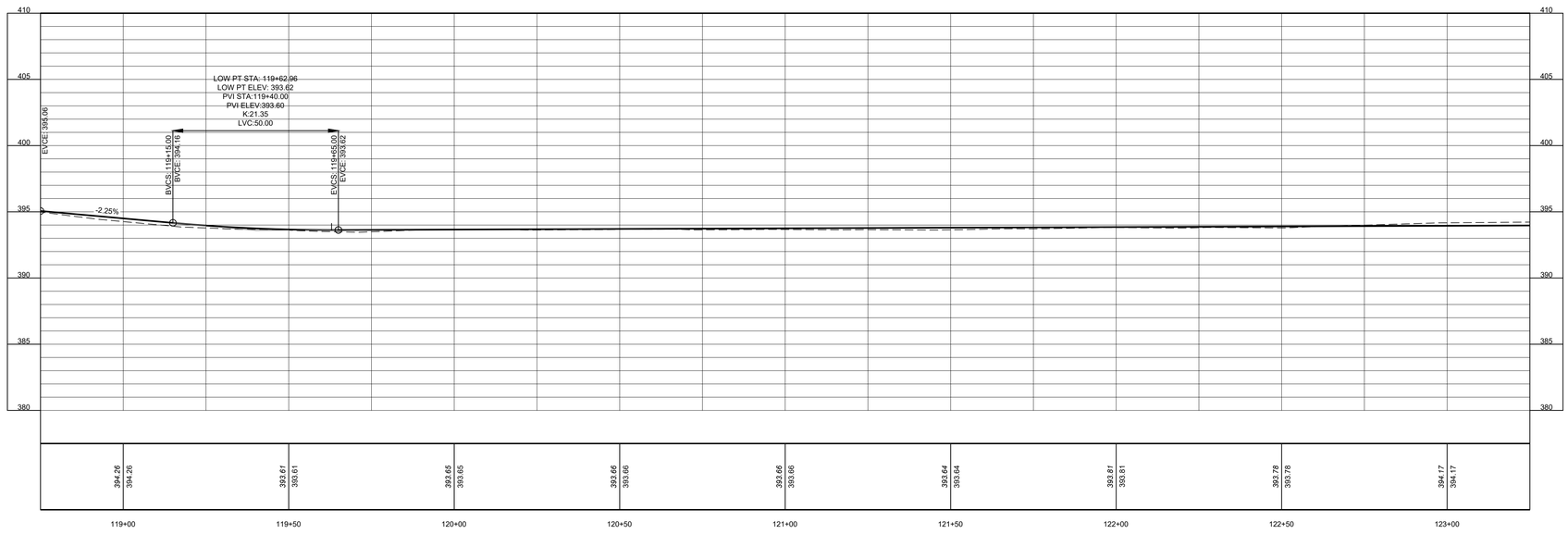
DRAWING:

LA316

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA312 - Plan And Profile (Mid)

PREPARED BY:

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URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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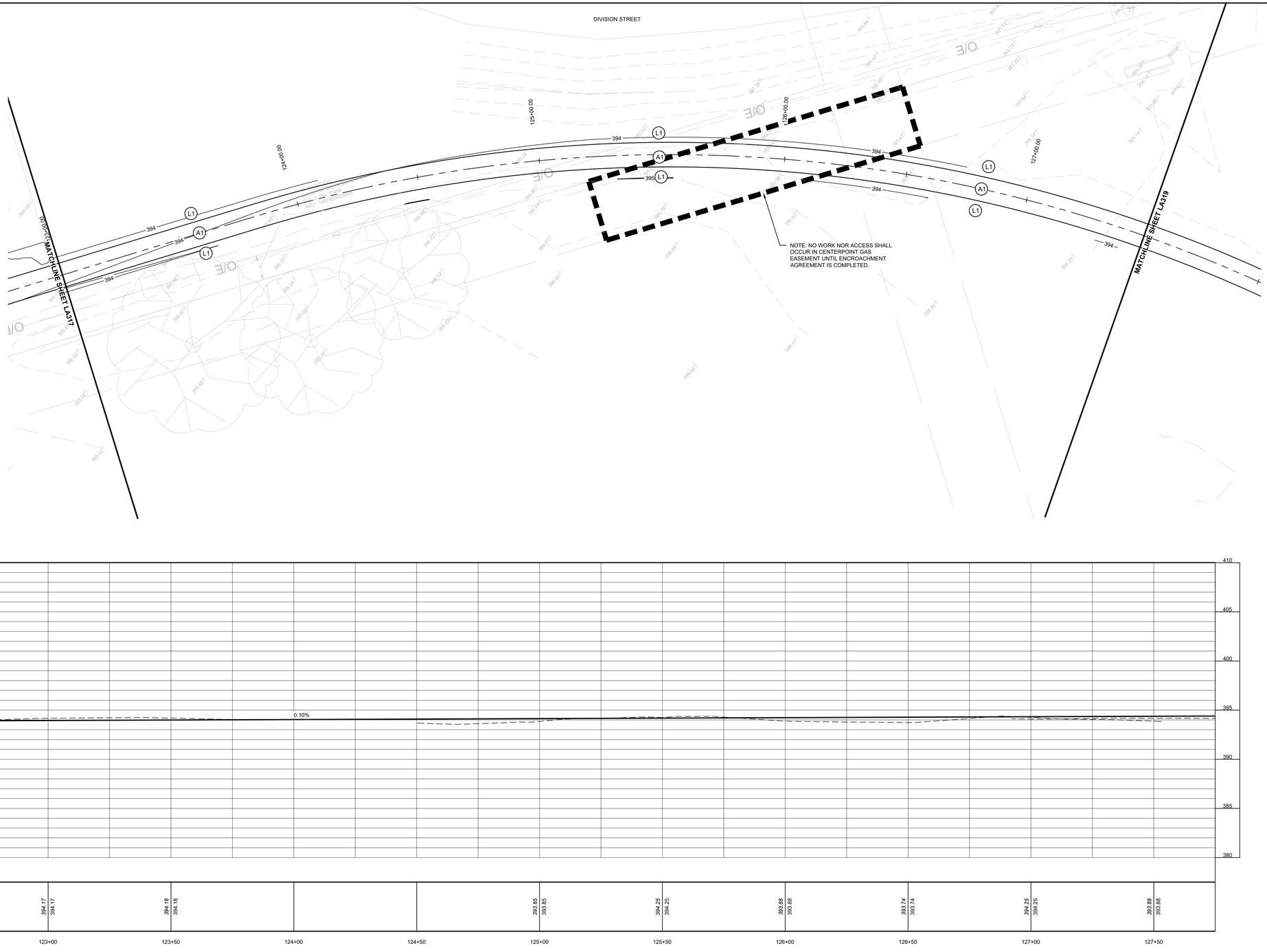
PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA317

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

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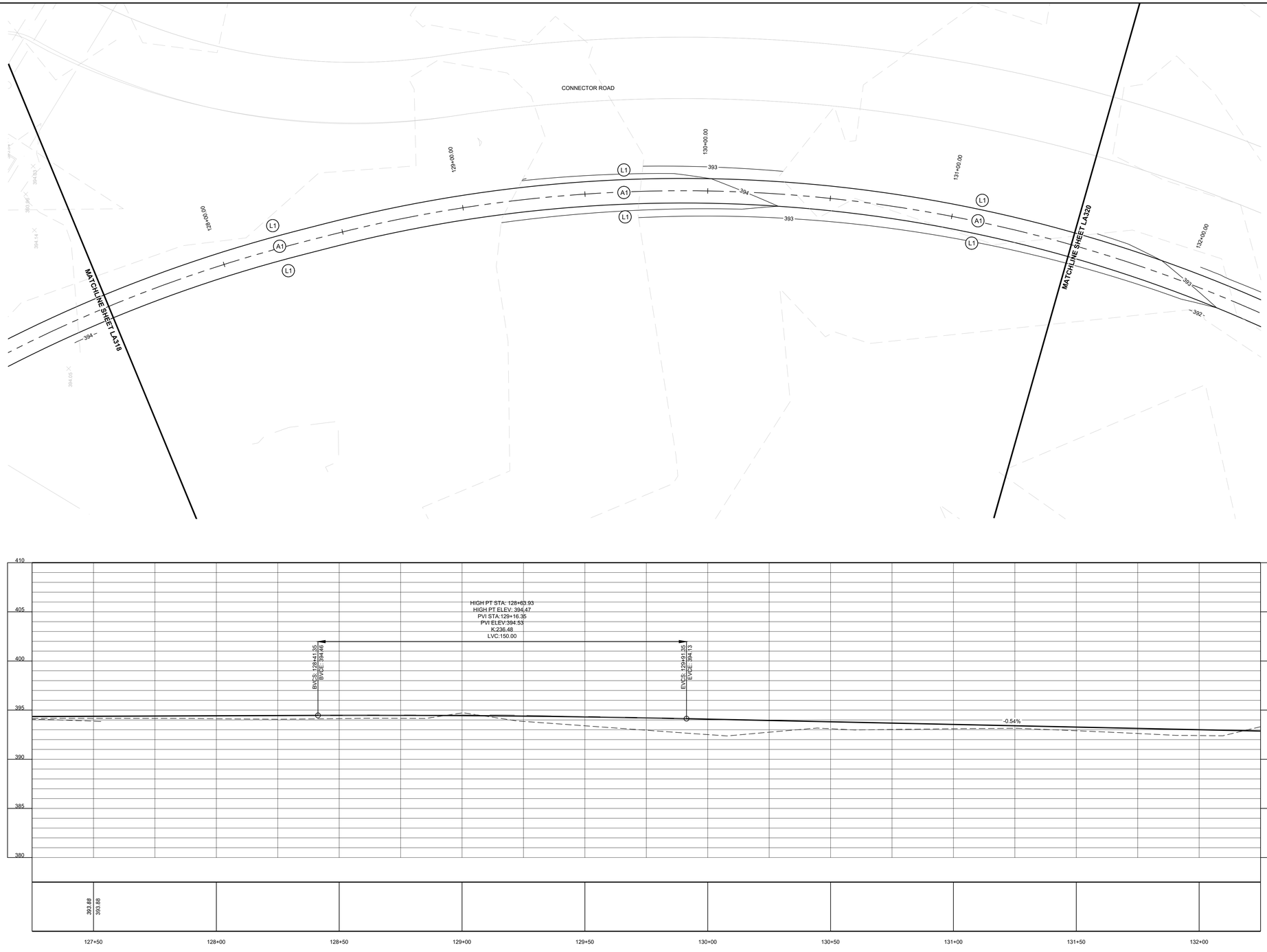
PETER M. ANDRIOT III
REGISTERED
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STATE OF
INDIANA
LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
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DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA318

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SCALE LEGEND
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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA312 - Plan And Profile (Mid)

PREPARED BY:

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EVANSVILLE, INDIANA

BID DOCUMENTS

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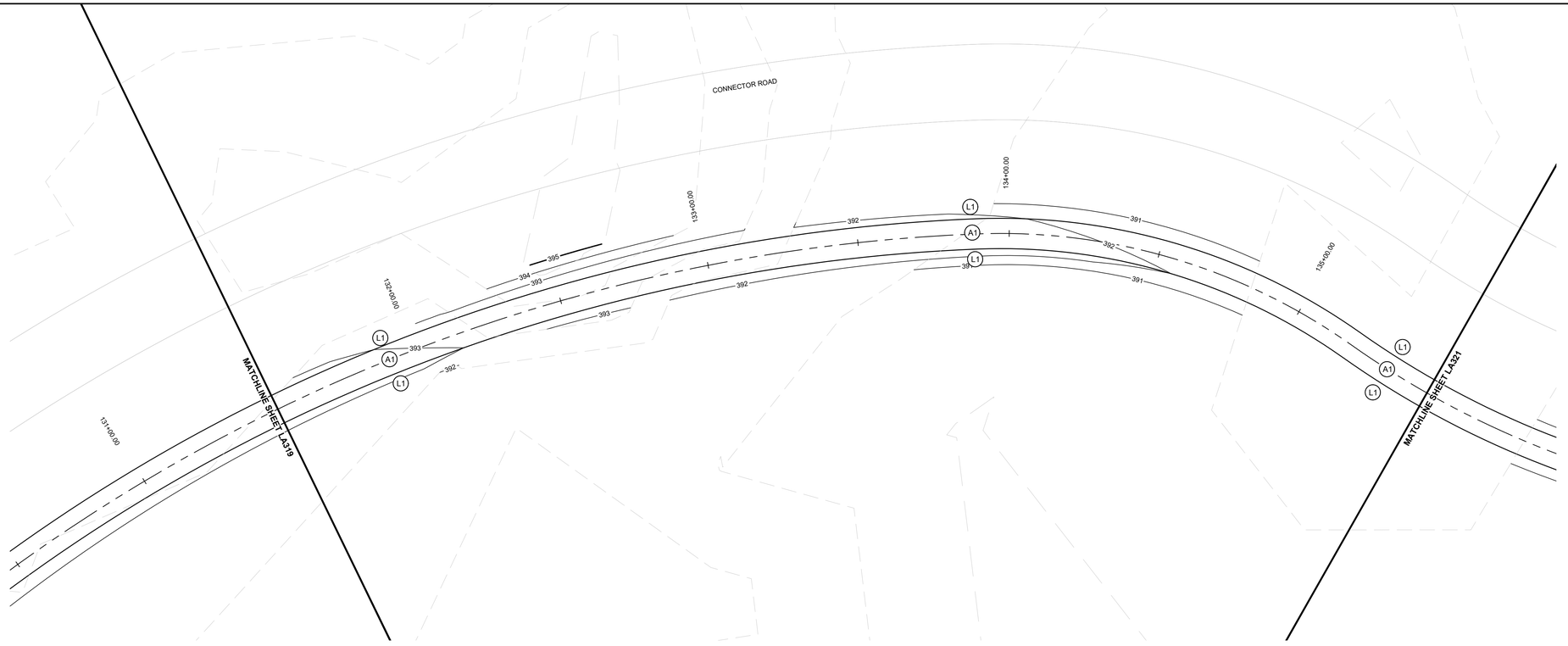
PETER M. ANDRIOT II
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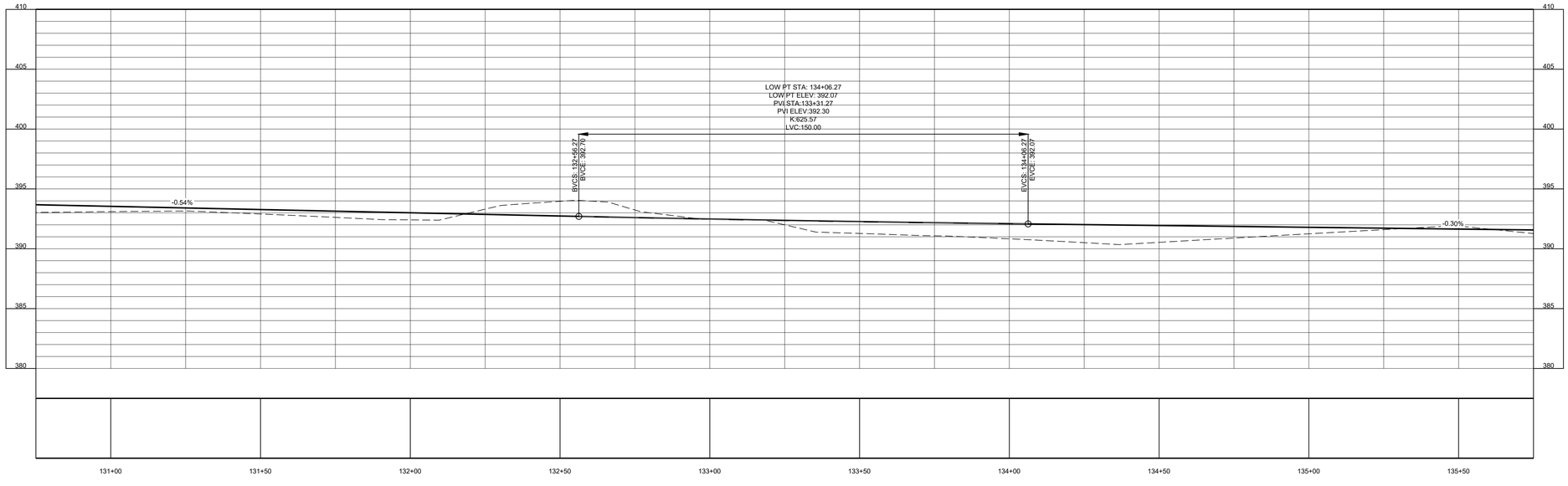
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA319

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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM PREPARED BY REA FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE, AND MAY BE USED SOLELY WITH RESPECT TO THIS PROJECT. THE DOCUMENTS MAY NOT BE REPRODUCED OR MODIFIED BY A THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF REA. AUTHORIZED USE OF ELECTRONIC MEDIA OR FILE DOES NOT GUARANTEE THAT THESE FILES CONTAIN COMPLETE AND ACCURATE INFORMATION. IN ORDER TO INSURE THE ACCURACY OF THE INFORMATION CONTAINED AND THAT NO CHANGES OR MODIFICATIONS HAVE BEEN MADE, THESE FILES MUST BE COMPARED TO THE PROJECT'S CONTRACT DOCUMENTS WITH STAMPED AND SEALED CERTIFICATION AND APPLICABLE APPROVED MODIFICATIONS.

DRAWING NAME:

PLAN AND PROFILE

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

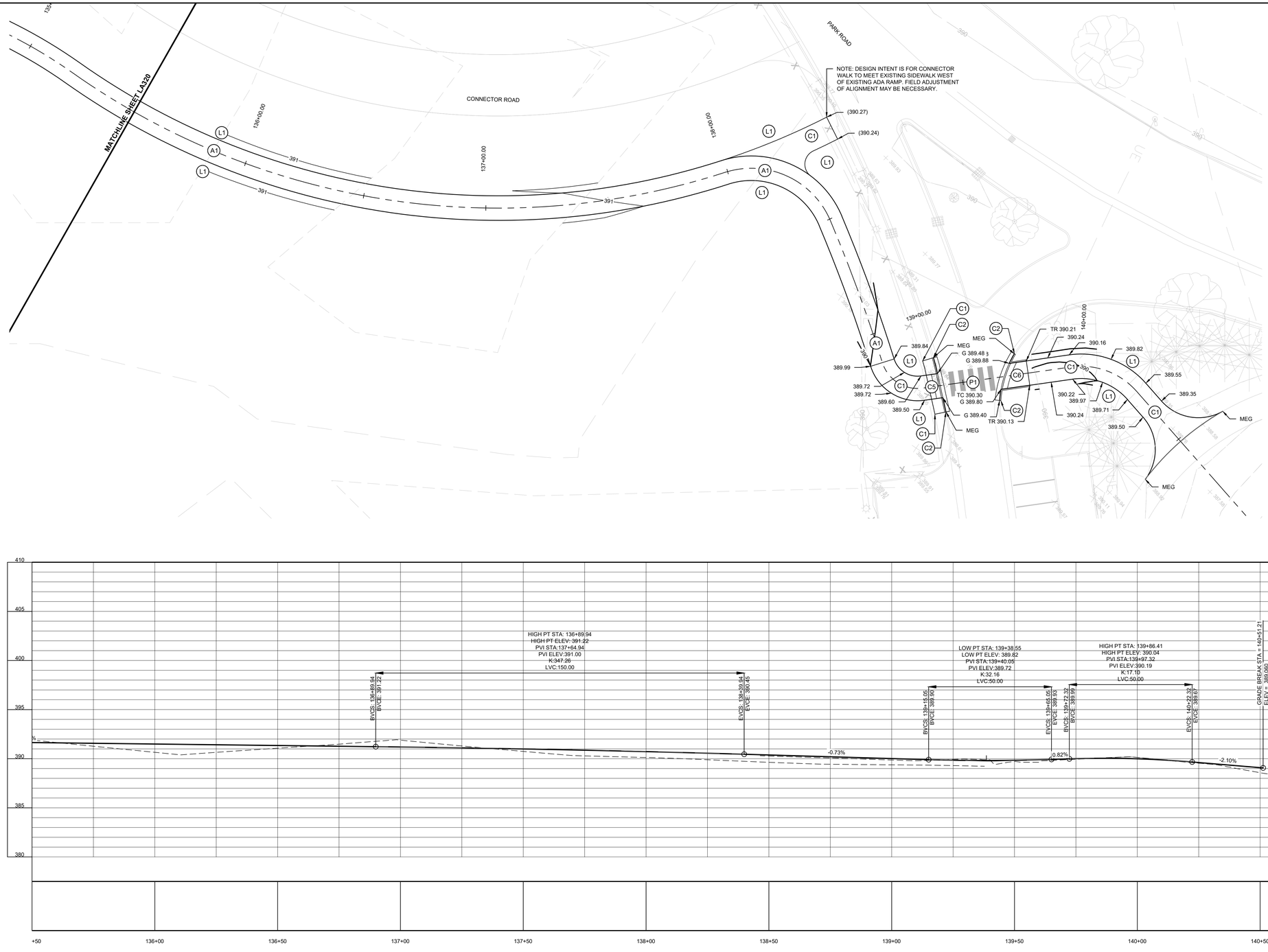
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA320

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA312 - Plan And Profile (Mid)



SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

FILE: P:\17766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA312 - Plan And Profile (Mid)

PREPARED BY:

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URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
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P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2
EVANSVILLE, INDIANA
BID DOCUMENTS

NORTH
0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

PLAN AND PROFILE

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

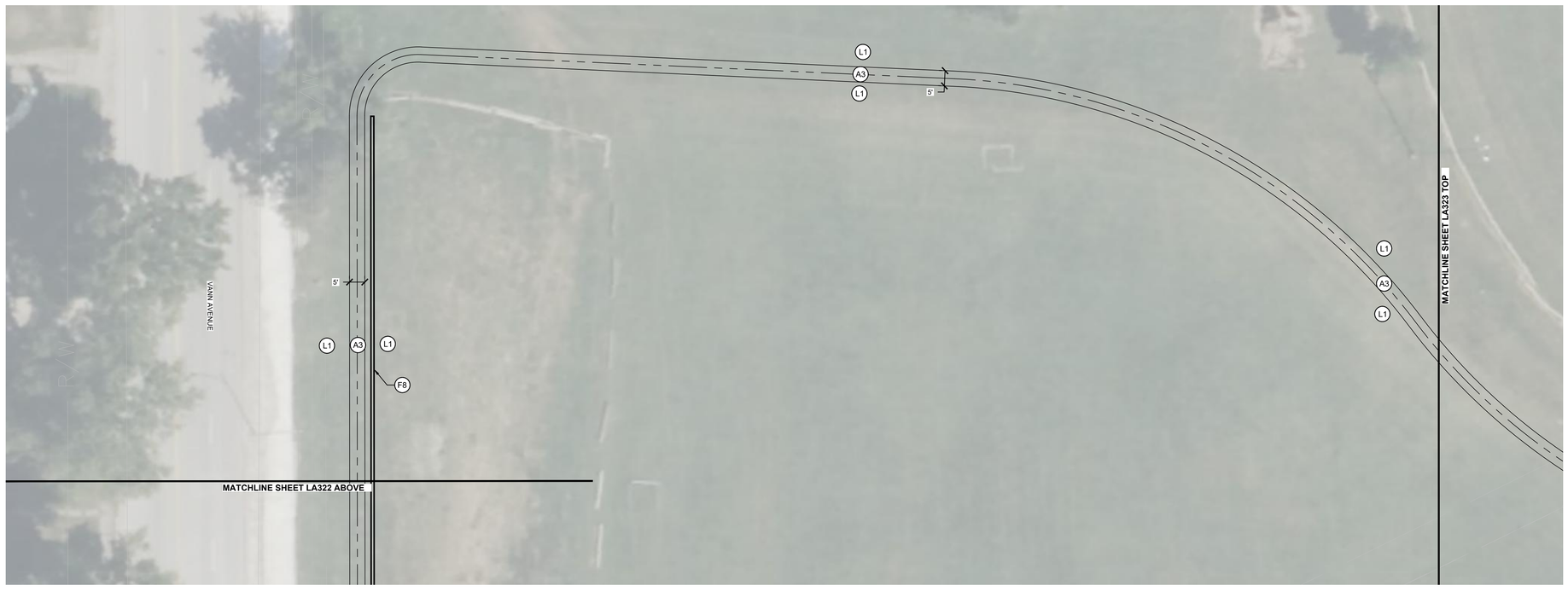
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA321

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA300 - Plan And Profile

PREPARED BY:

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P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH NORTH 0' 10' 20' 40' SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

PLAN AND PROFILE

CERTIFICATION:

PETER M. ANDRIOT II REGISTERED No. 20800187 STATE OF INDIANA LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA322

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PREPARED BY:

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CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

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SCALE: 1" = 20'

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DRAWING NAME:

PLAN AND PROFILE

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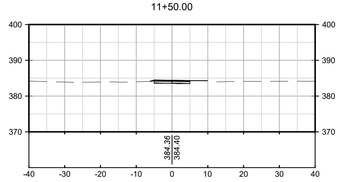
PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

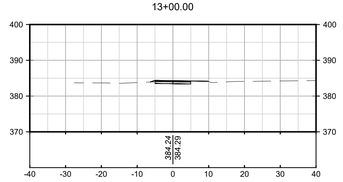
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REVIEWED BY:	PA

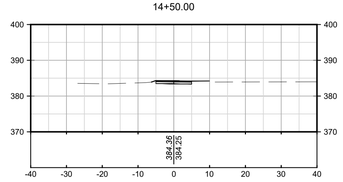
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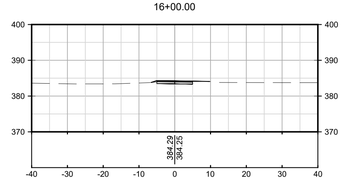
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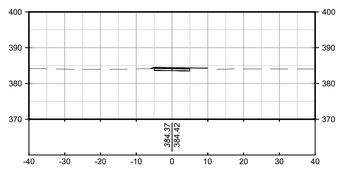
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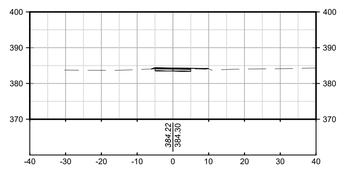


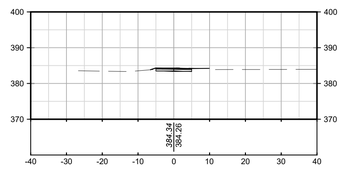


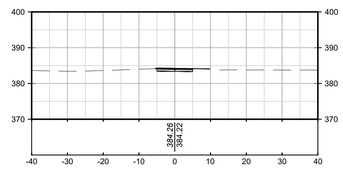


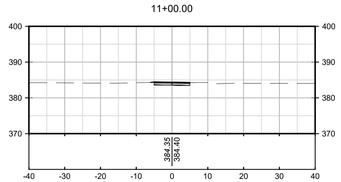


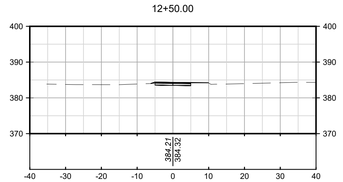


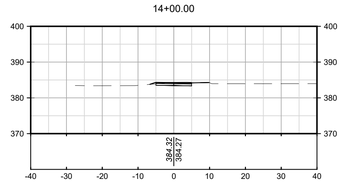


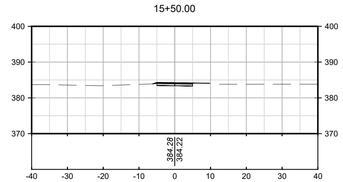


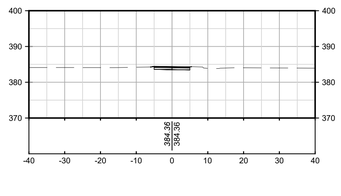


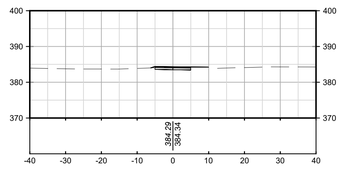


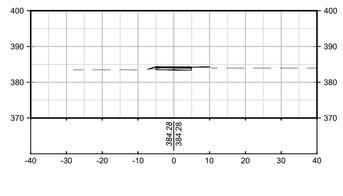


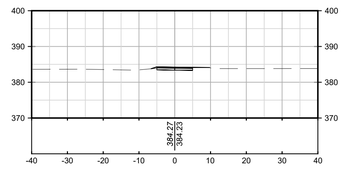


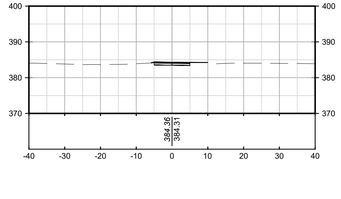


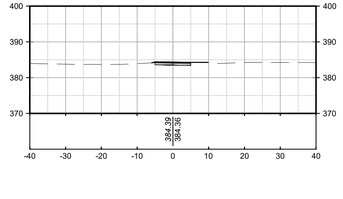


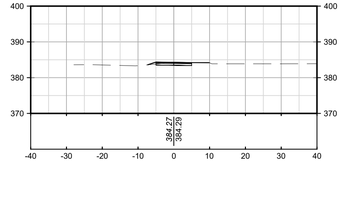


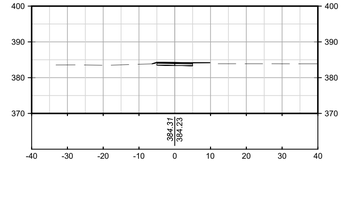


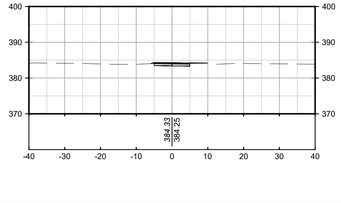


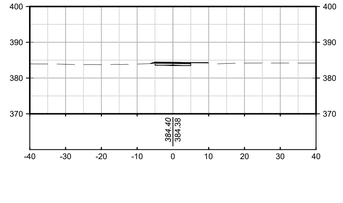


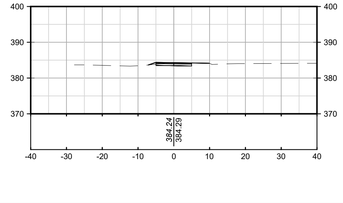


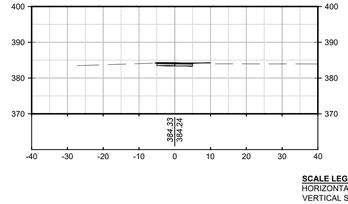












SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 20'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA500 - Sections

PREPARED BY:

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CONSULTANT:

PROJECT:

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EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

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DRAWING NAME:

TRAIL SECTIONS

CERTIFICATION:

PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

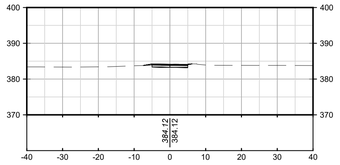
REA PROJECT #: 2024-1766
DATE: 03/31/2025
DRAWN BY: AG
REVIEWED BY: PA

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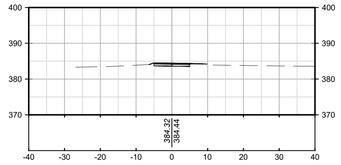
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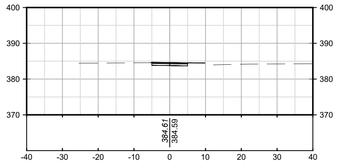
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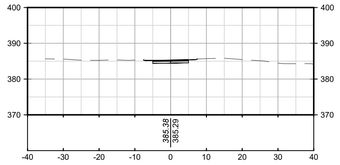
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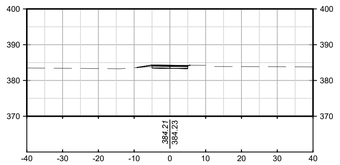
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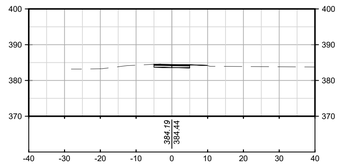
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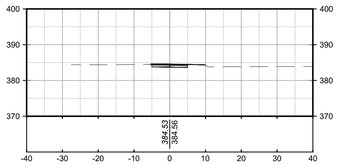
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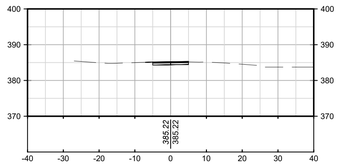
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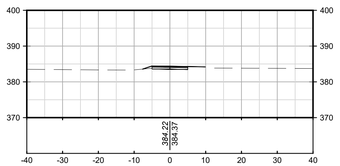
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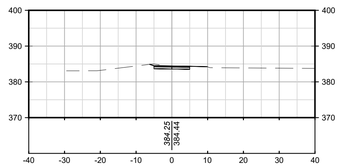
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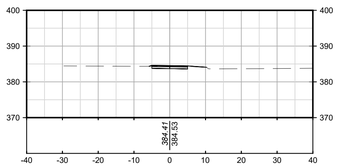
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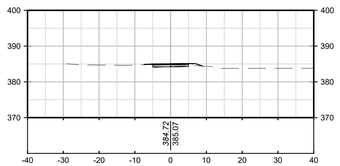
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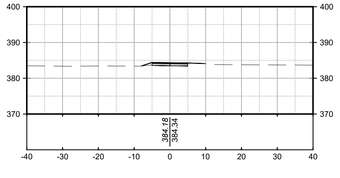
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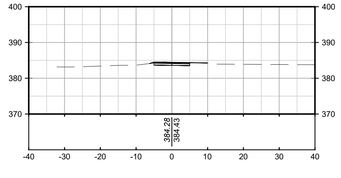
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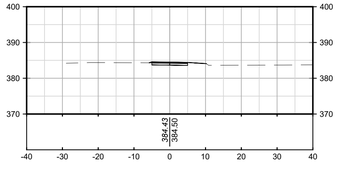
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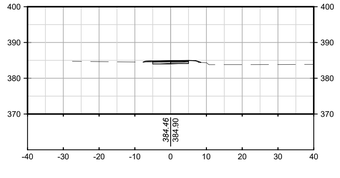
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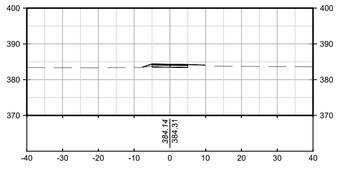
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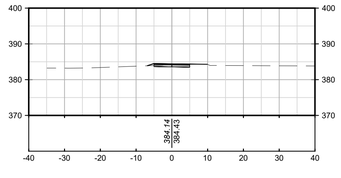
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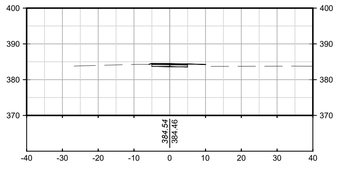
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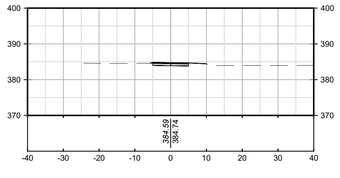
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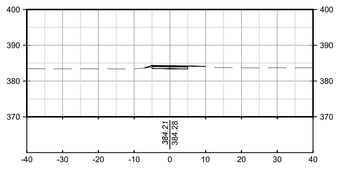
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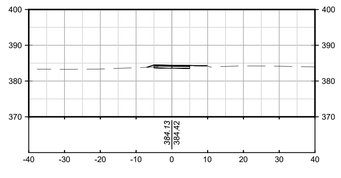
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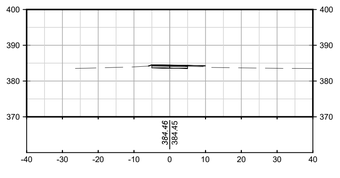
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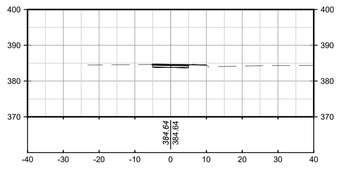
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SCALE LEGEND
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VERTICAL SCALE: 1" = 20'-0"

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PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE

THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM PREPARED BY REA FOR THIS PROJECT ARE INSTRUMENTS OF SERVICE, AND MAY BE USED SOLELY WITH RESPECT TO THIS PROJECT. THE DOCUMENTS MAY NOT BE REPRODUCED OR MODIFIED BY A THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF REA. AUTHORIZED USE OF ELECTRONIC MEDIA OR FILE DOES NOT GUARANTEE THAT THESE FILES CONTAIN COMPLETE AND ACCURATE INFORMATION. IN ORDER TO INSURE THE ACCURACY OF THE INFORMATION CONTAINED AND THAT NO CHANGES OR MODIFICATIONS HAVE BEEN MADE, THESE FILES MUST BE COMPARED TO THE PROJECT'S CONTRACT DOCUMENTS WITH STAMPED AND SEALED CERTIFICATION AND APPLICABLE APPROVED MODIFICATIONS.

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TRAIL SECTIONS

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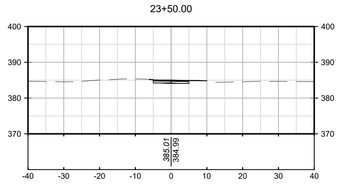
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REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

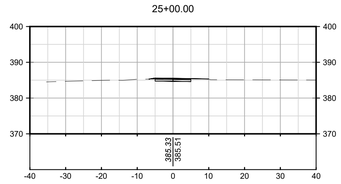
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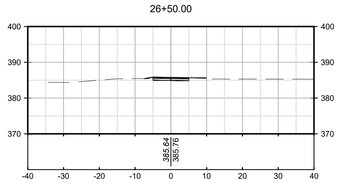
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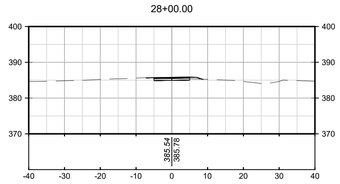
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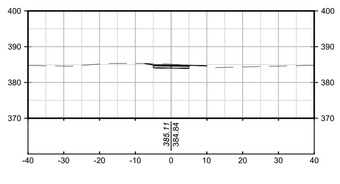
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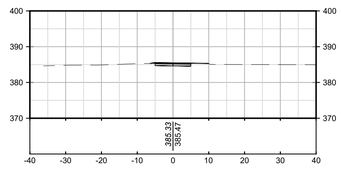


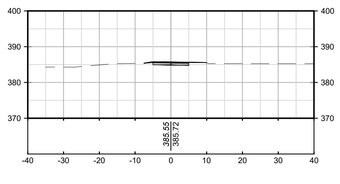


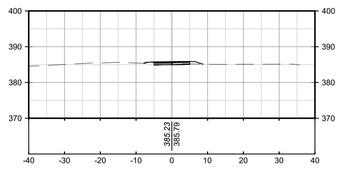


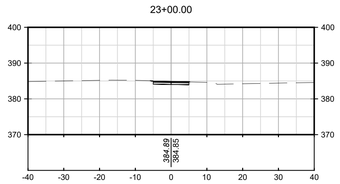


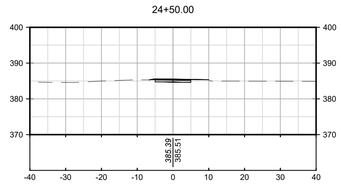


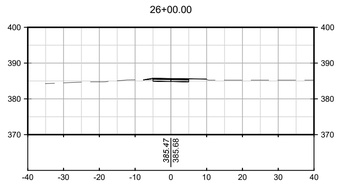


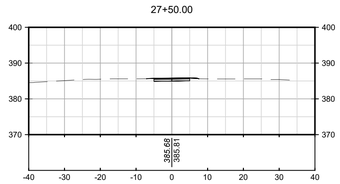


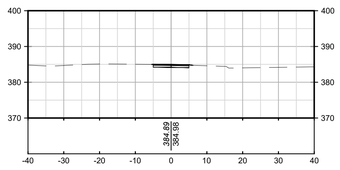


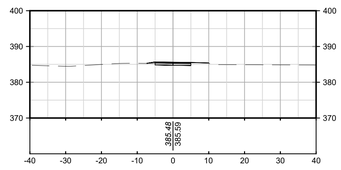


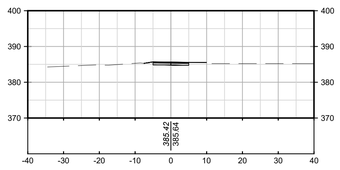


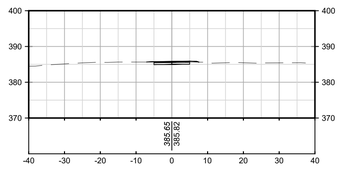


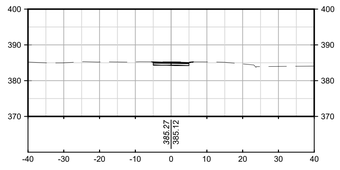


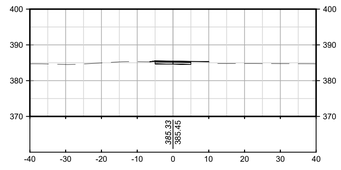


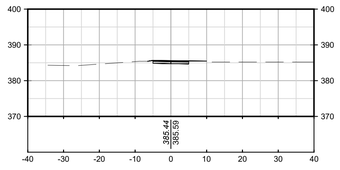


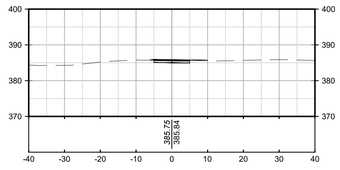


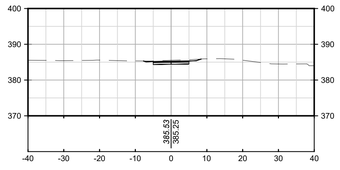


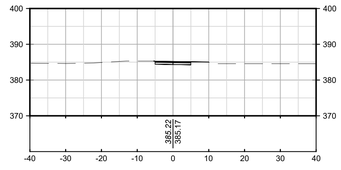


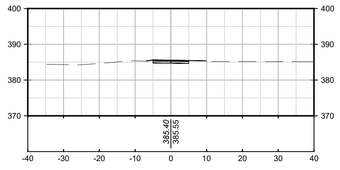


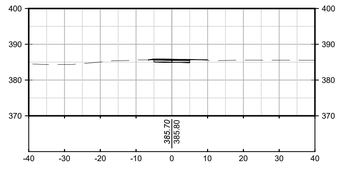












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VERTICAL SCALE: 1" = 20'-0"

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PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

TRAIL SECTIONS

CERTIFICATION:

PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

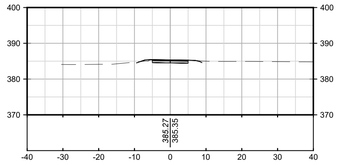
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REVIEWED BY: PA

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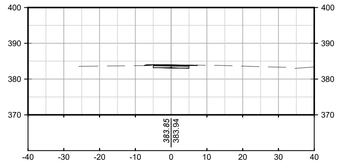
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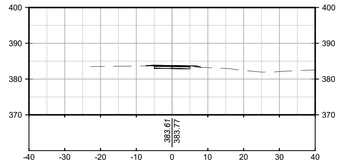
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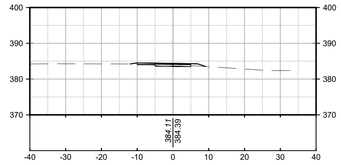
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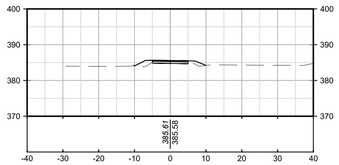
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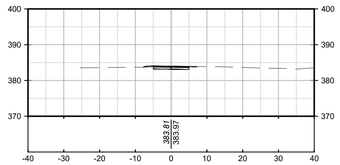
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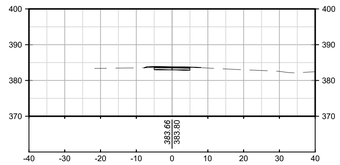
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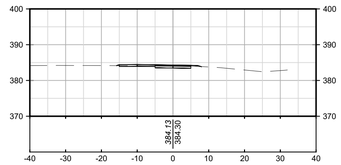
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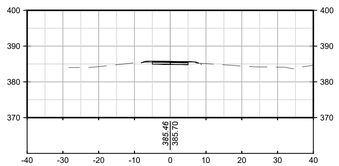
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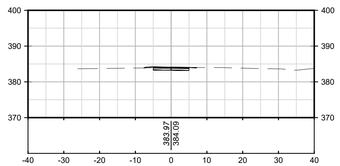
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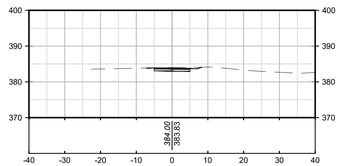
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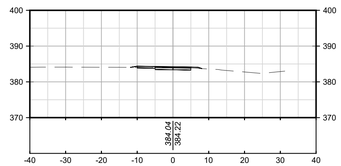
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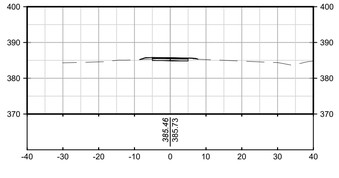
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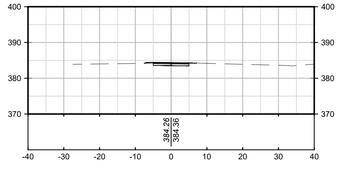
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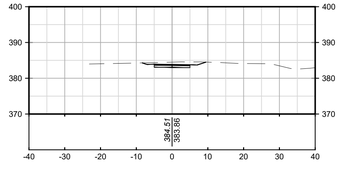
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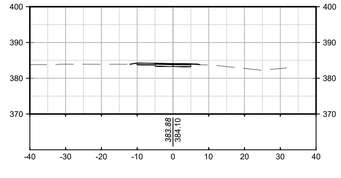
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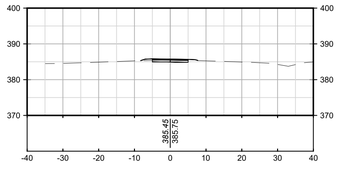
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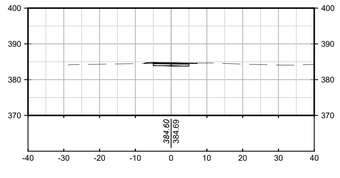
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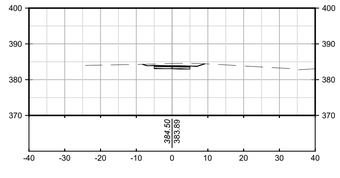
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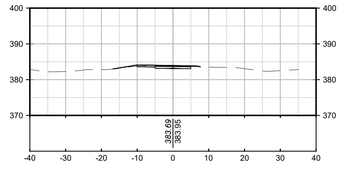
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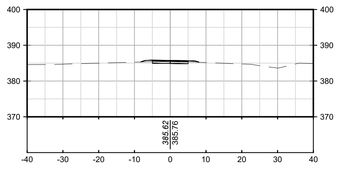
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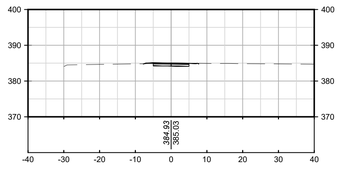
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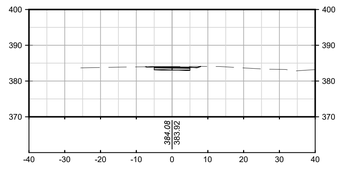
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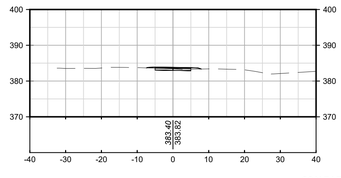
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SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 20'-0"

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PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

TRAIL SECTIONS

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

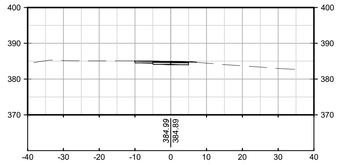
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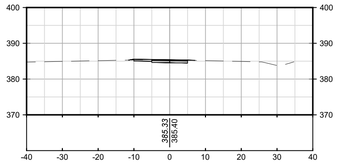
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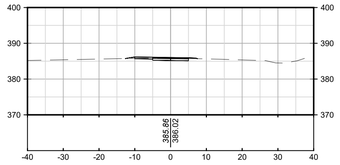
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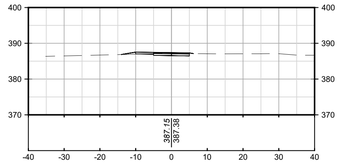
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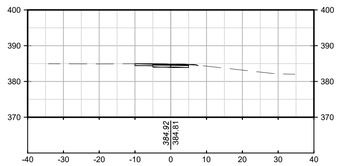
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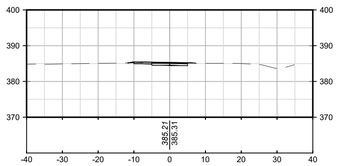
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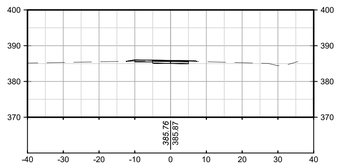
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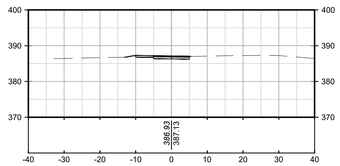
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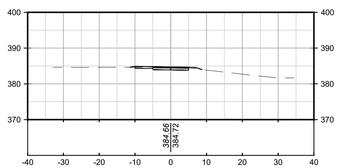
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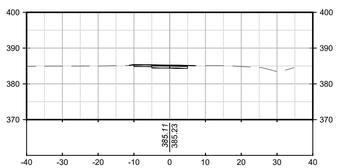
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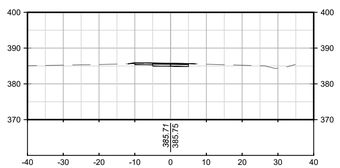
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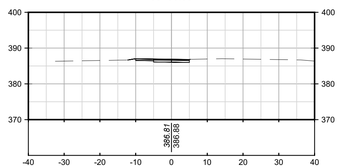
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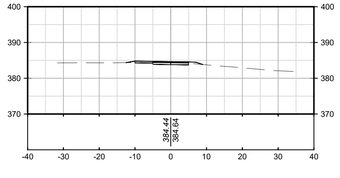
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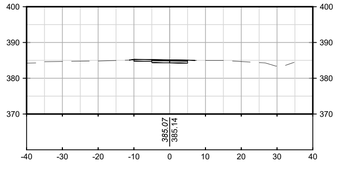
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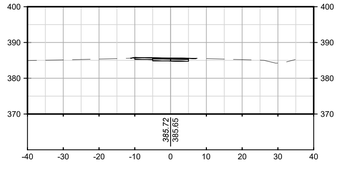
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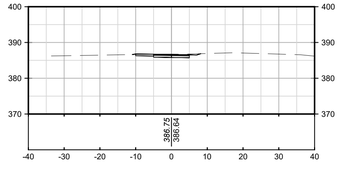
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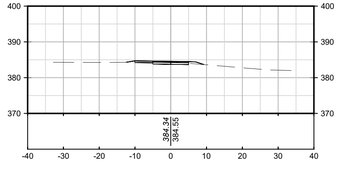
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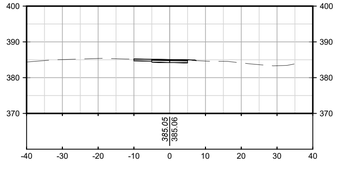
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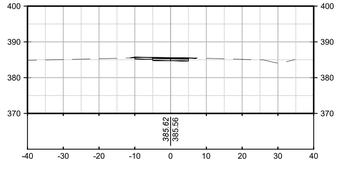
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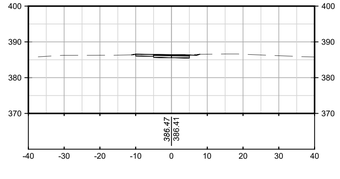
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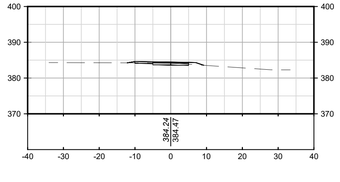
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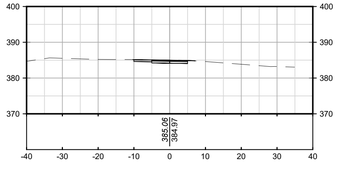
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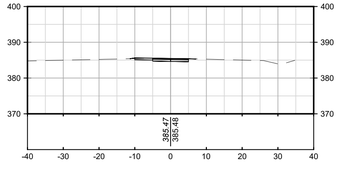
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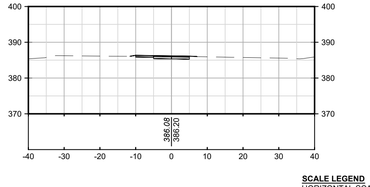
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SCALE LEGEND
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VERTICAL SCALE: 1" = 20'-0"

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PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
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100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

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DRAWING NAME:

TRAIL SECTIONS

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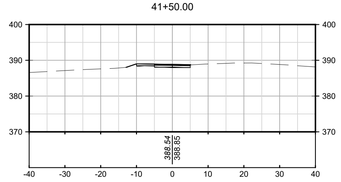
PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

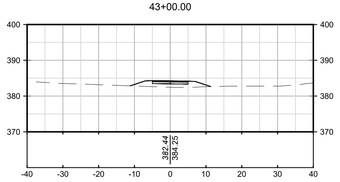
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DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

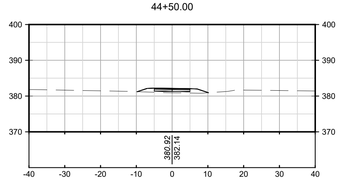
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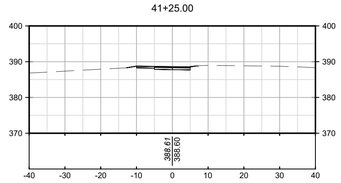
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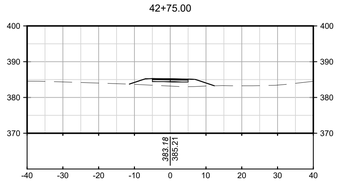
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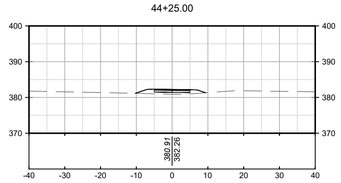


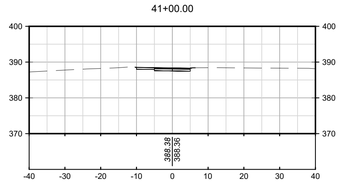


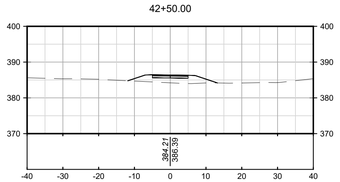


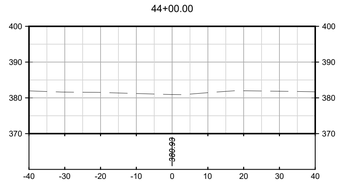


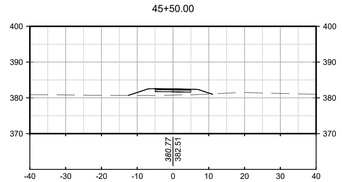


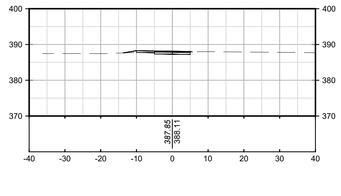


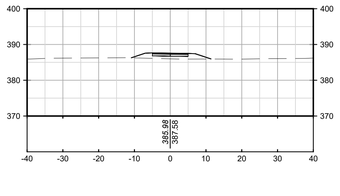


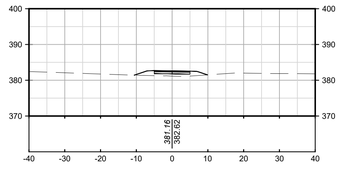


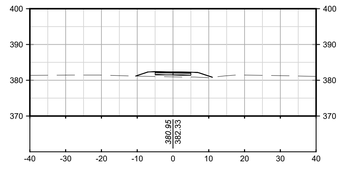


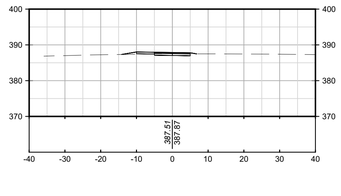


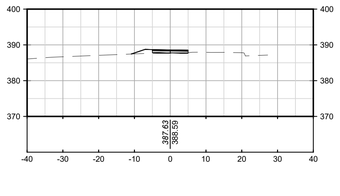


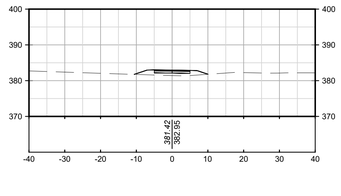


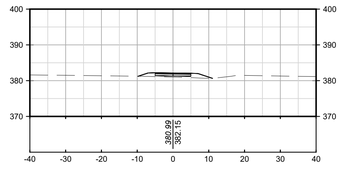


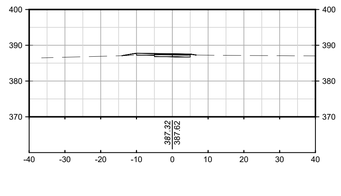


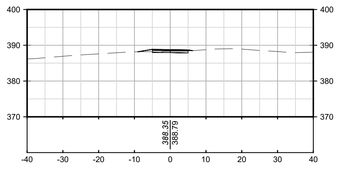


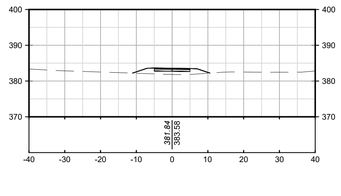


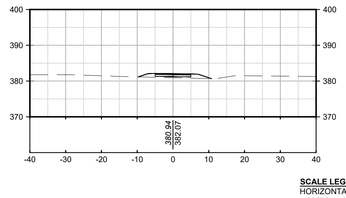












SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 20'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA500 - Sections

PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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TRAIL SECTIONS

CERTIFICATION:

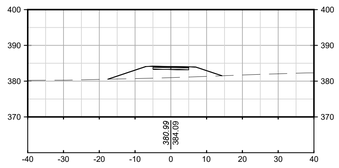
PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

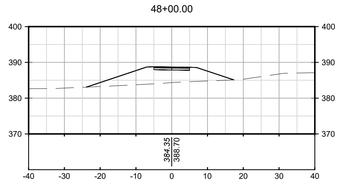
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DATE: 03/31/2025
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REVIEWED BY: PA

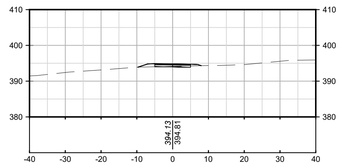
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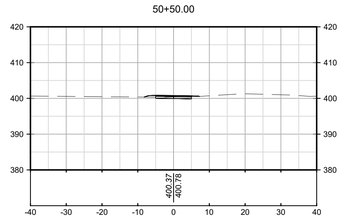
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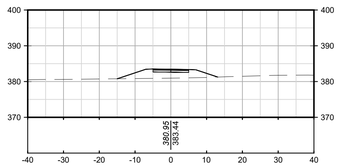
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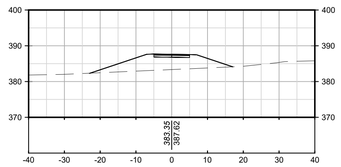


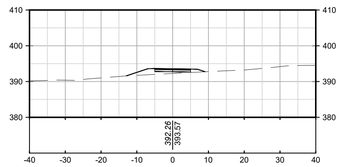


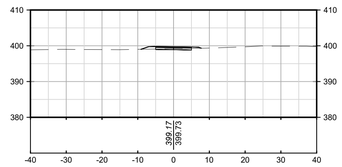


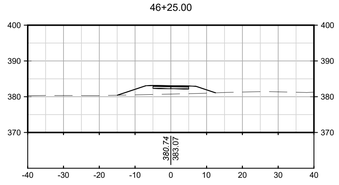


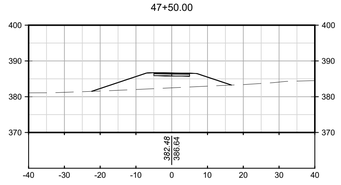


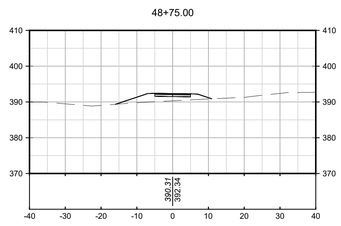


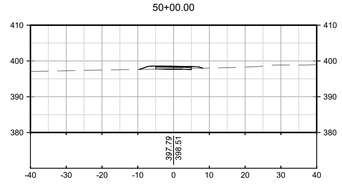


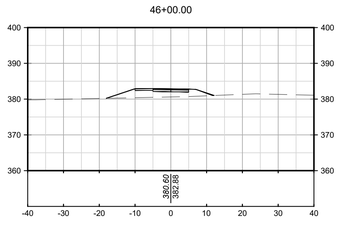


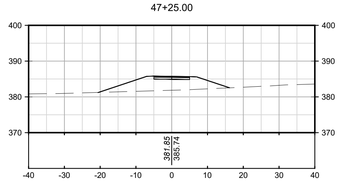


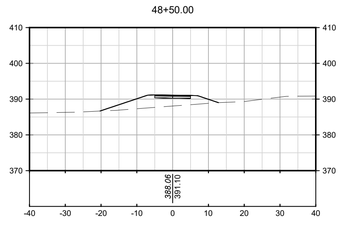


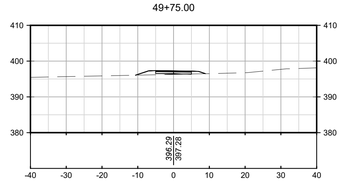


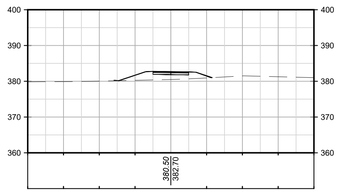


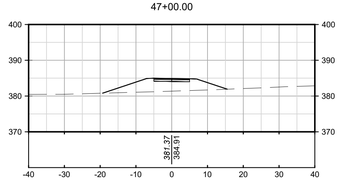


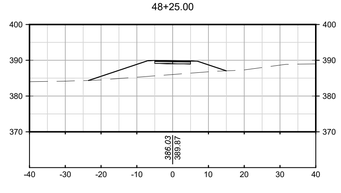


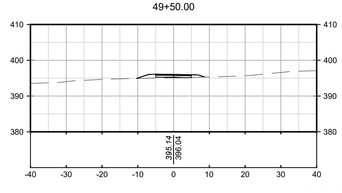












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HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 20'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA500 - Sections

PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

TRAIL SECTIONS

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

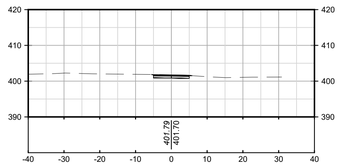
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DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

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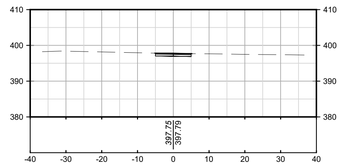
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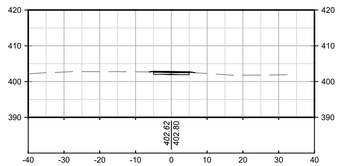
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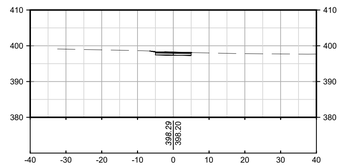
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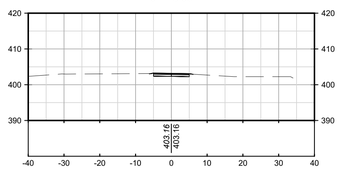
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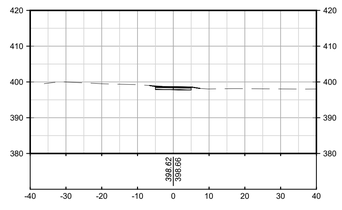
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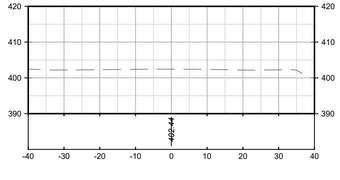
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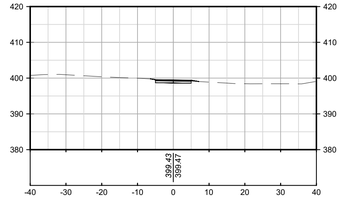
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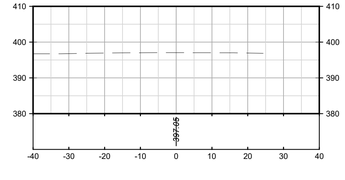
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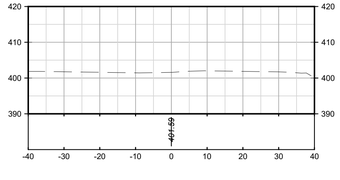
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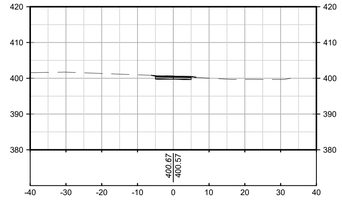
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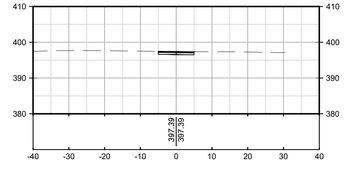
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Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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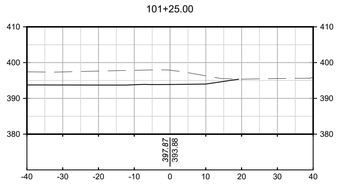
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REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

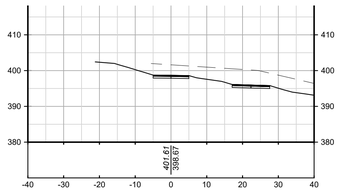
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DATE:	03/31/2025
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REVIEWED BY:	PA

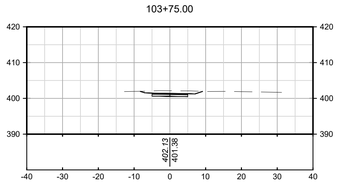
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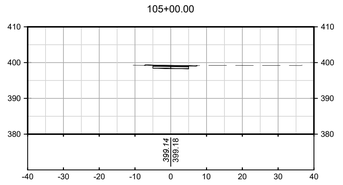
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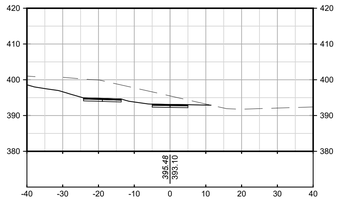
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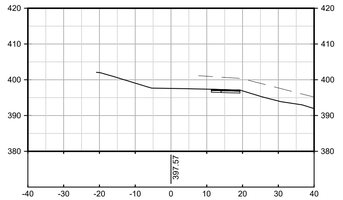


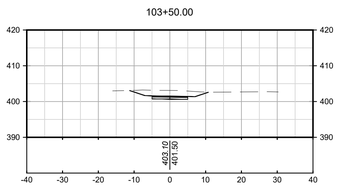


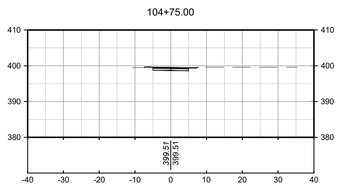


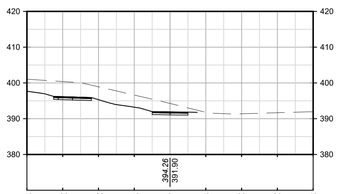


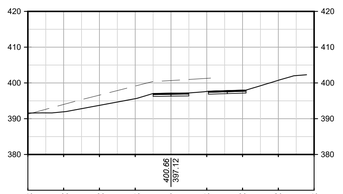


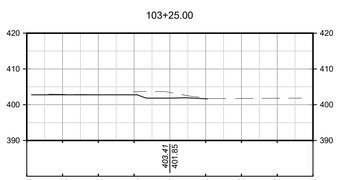


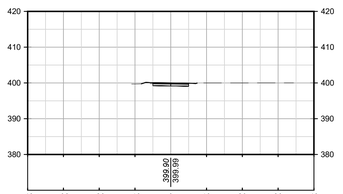


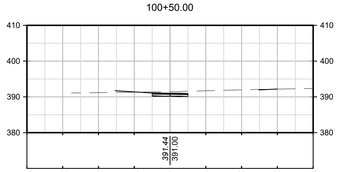


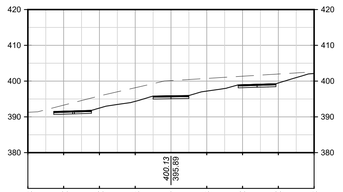


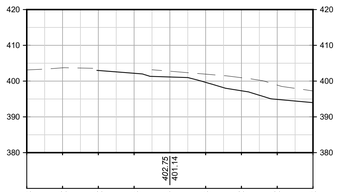


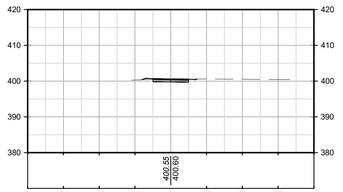


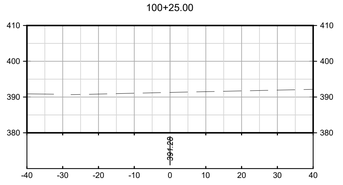


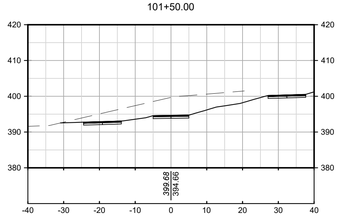


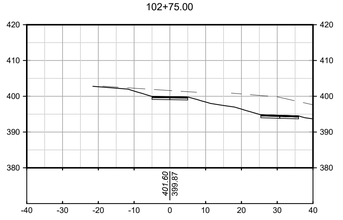


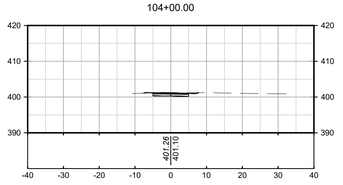












SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 20'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA508 - Sections (Mid)

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

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TRAIL SECTIONS

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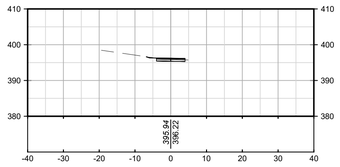
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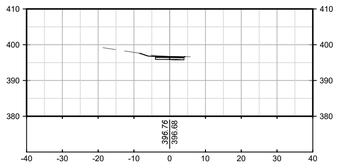
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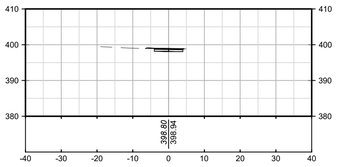
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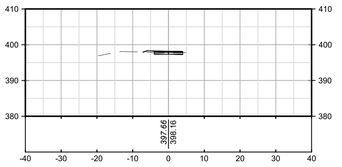
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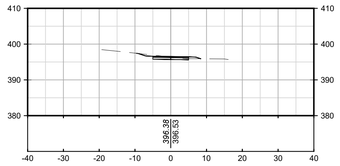
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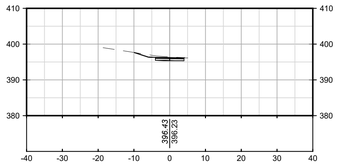
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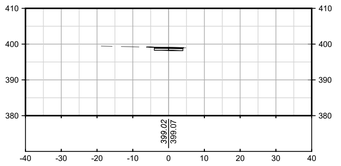
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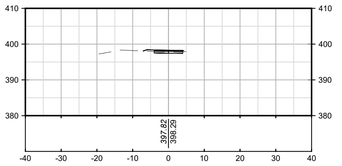
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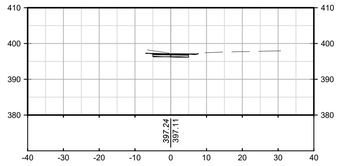
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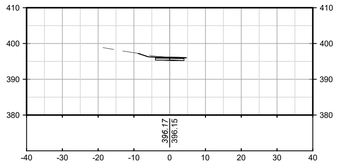
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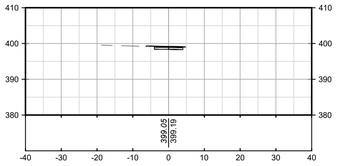
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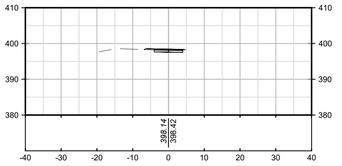
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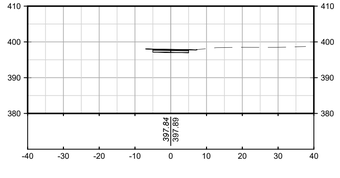
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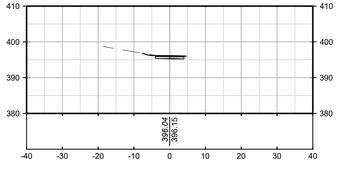
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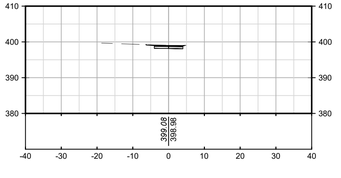
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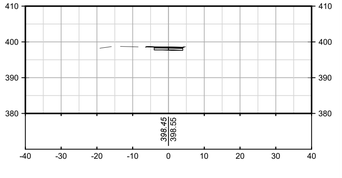
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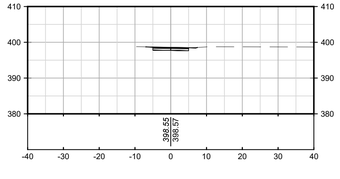
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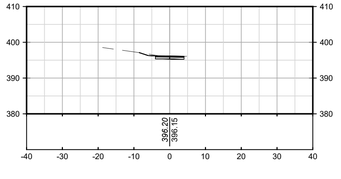
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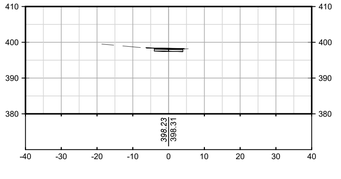
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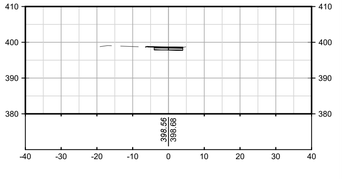
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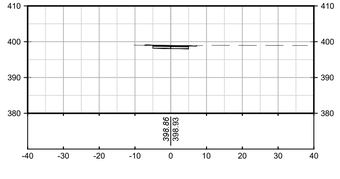
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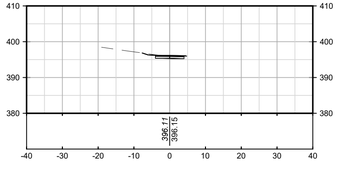
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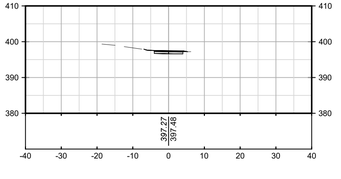
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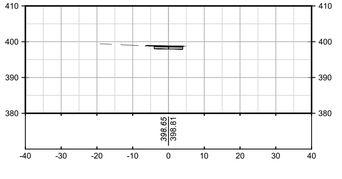
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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA508 - Sections (Mid)

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

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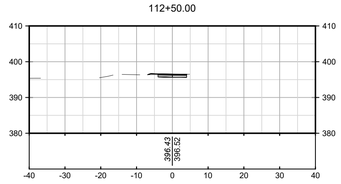
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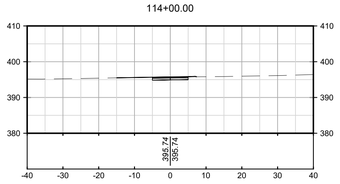
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REVIEWED BY:	PA

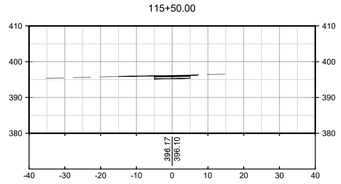
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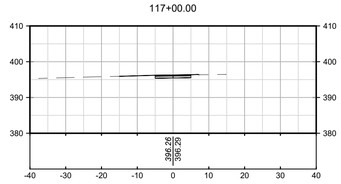
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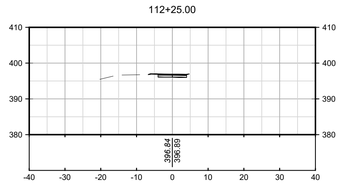
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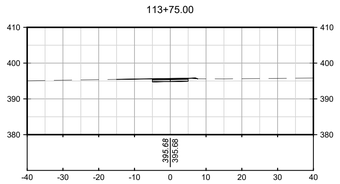


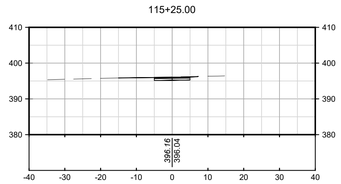


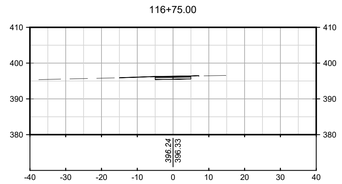


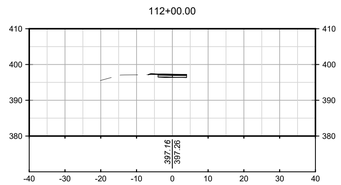


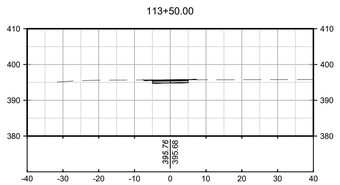


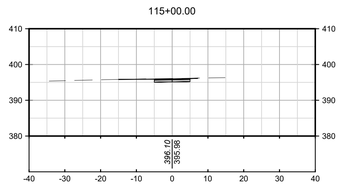


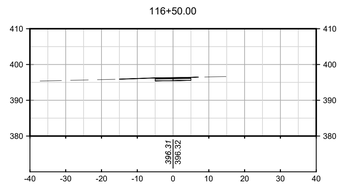


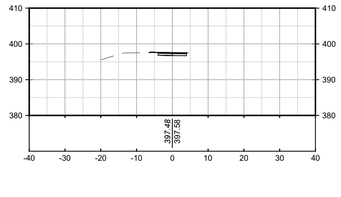


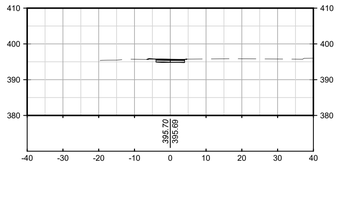


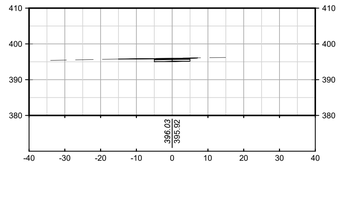


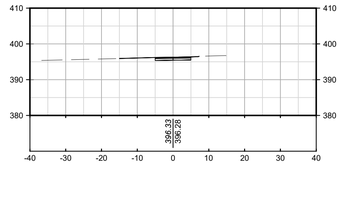


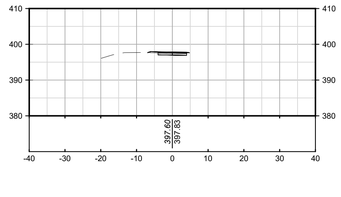


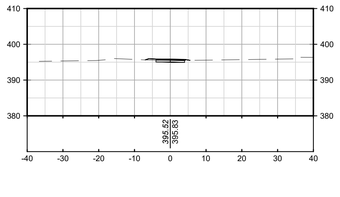


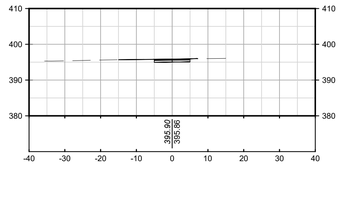


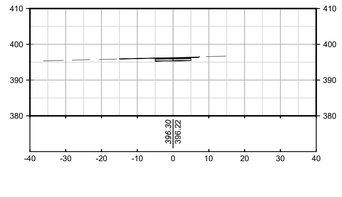


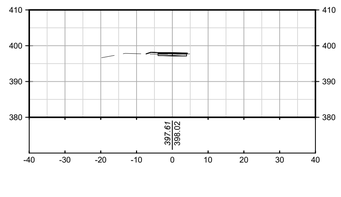


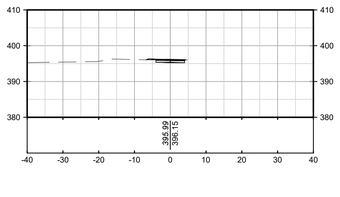


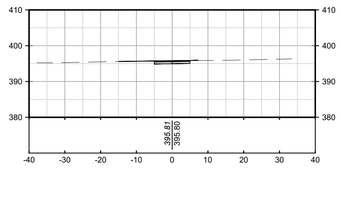


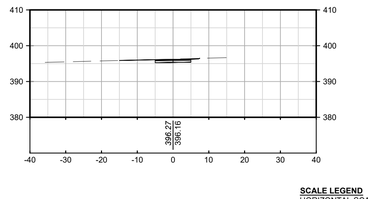












SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 20'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA508 - Sections (Mid)

PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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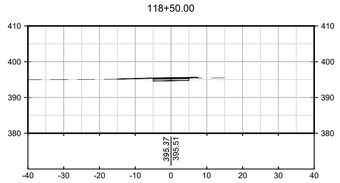
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REGISTERED
No. 20800187
STATE OF
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LANDSCAPE ARCHITECT

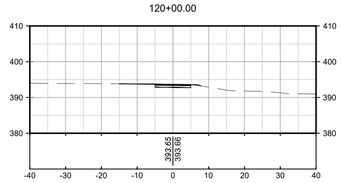
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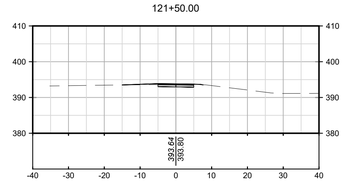
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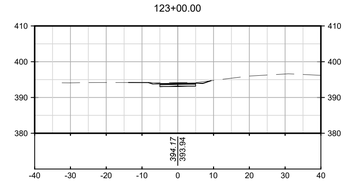
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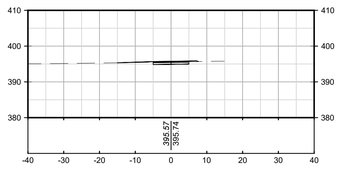
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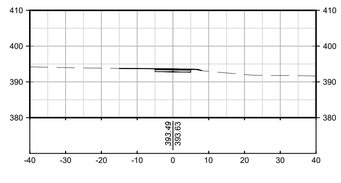


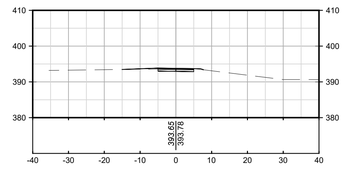


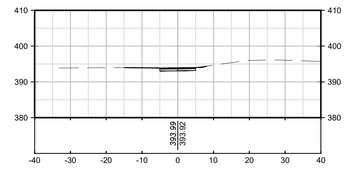


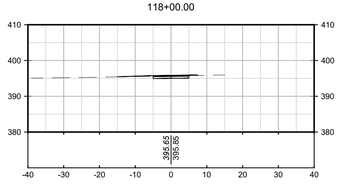


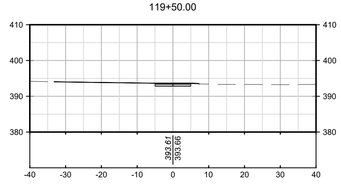


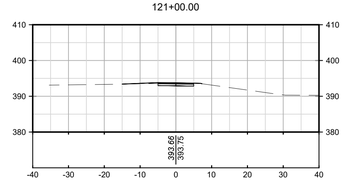


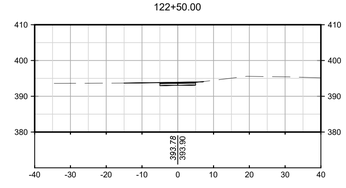


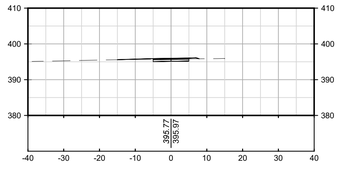


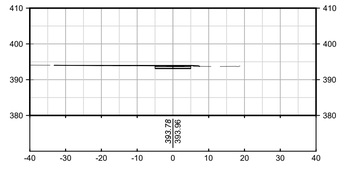


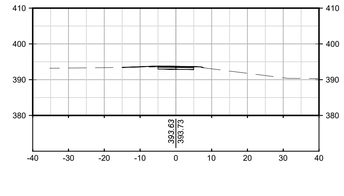


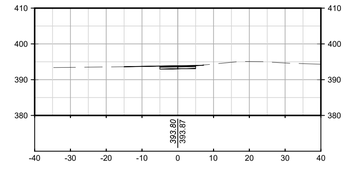


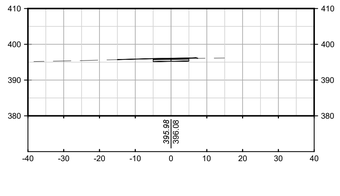


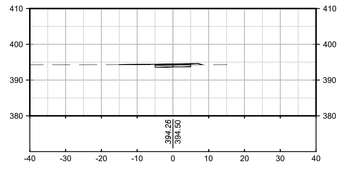


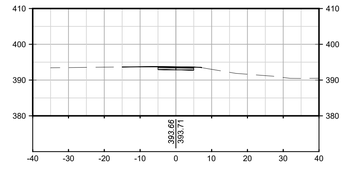


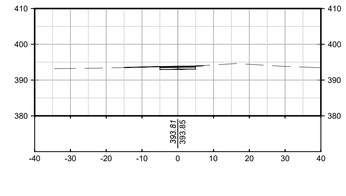


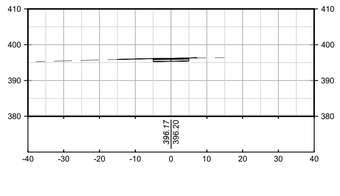


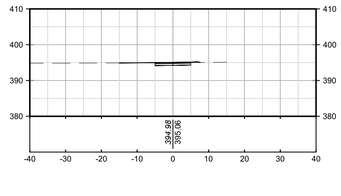


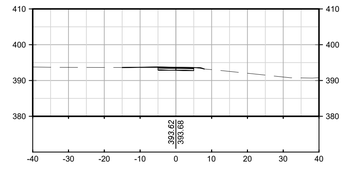


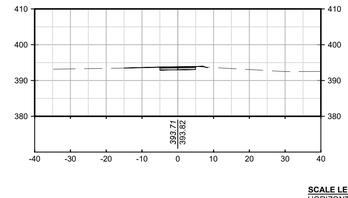












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PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

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100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

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EVANSVILLE, INDIANA

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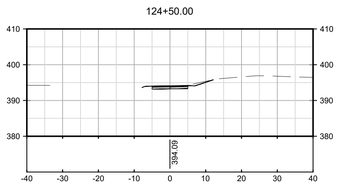
PETER M. ANDRIOT II
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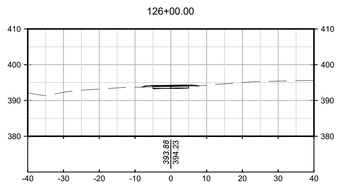
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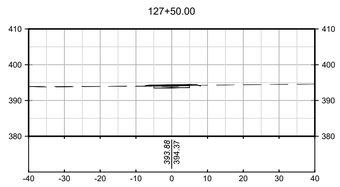
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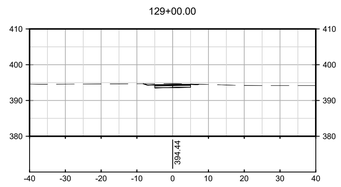
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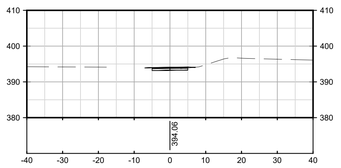
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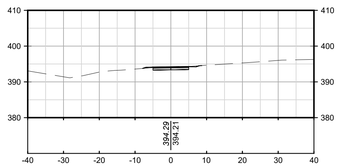


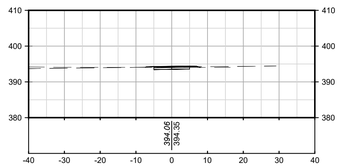


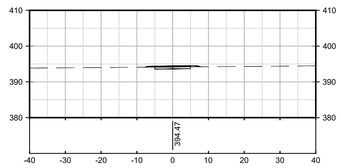


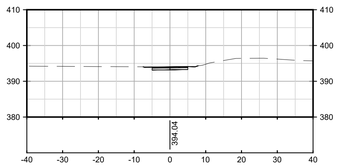


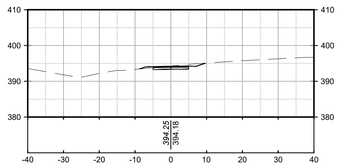


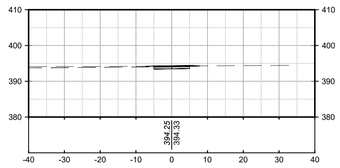


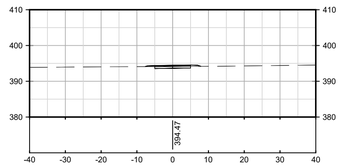


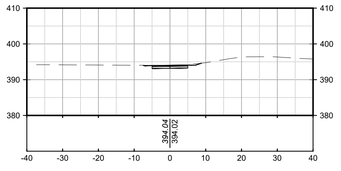


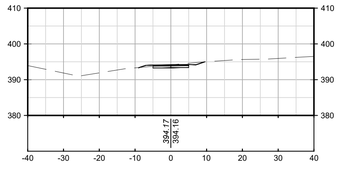


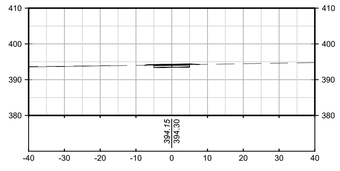


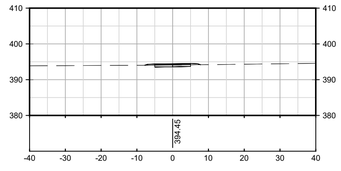


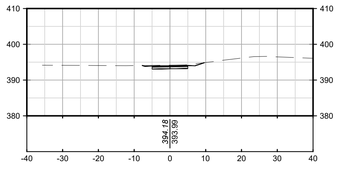


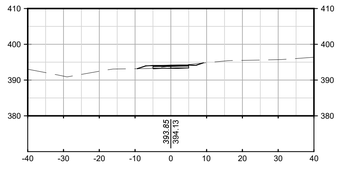


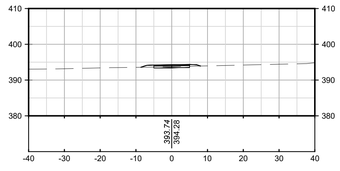


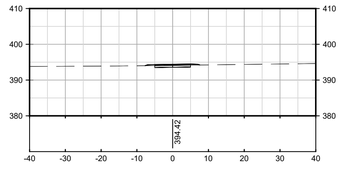


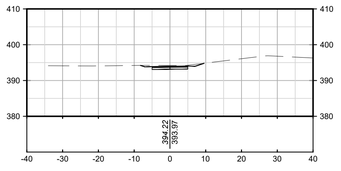


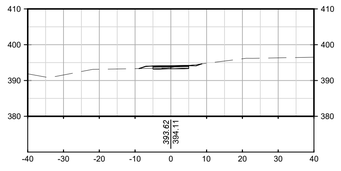


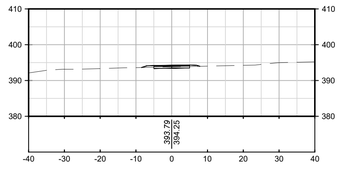


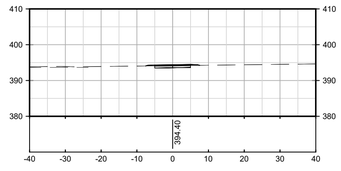












SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 20'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA508 - Sections (Mid)

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

TRAIL SECTIONS

CERTIFICATION:

PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

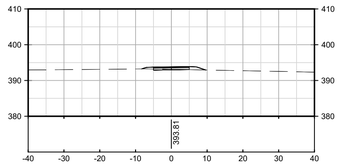
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DATE:	03/31/2025
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REVIEWED BY:	PA

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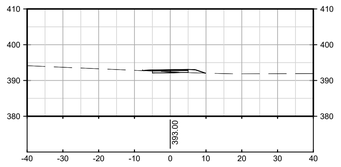
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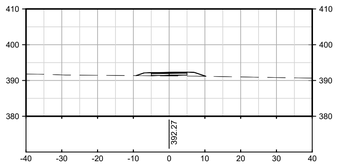
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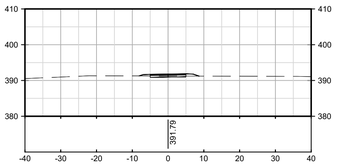
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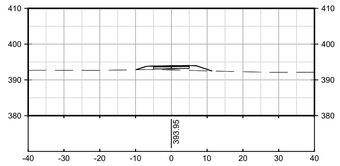
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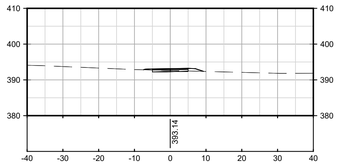
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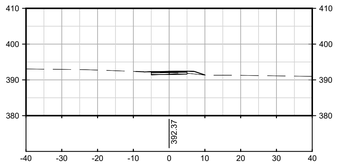
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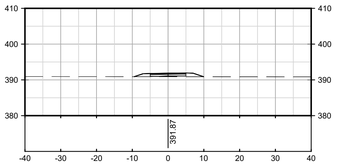
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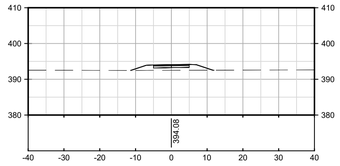
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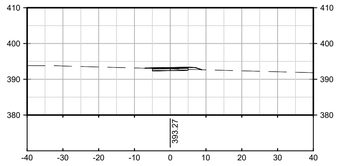
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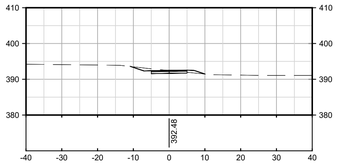
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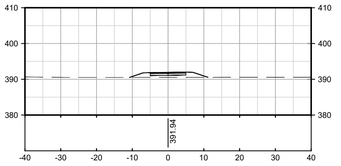
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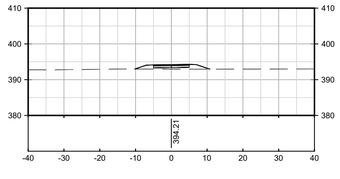
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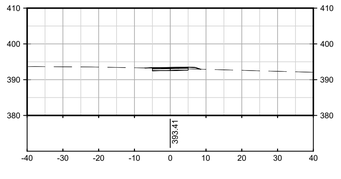
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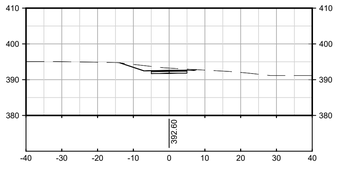
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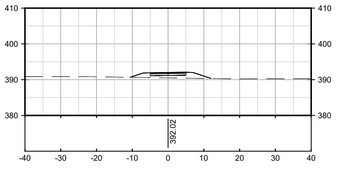
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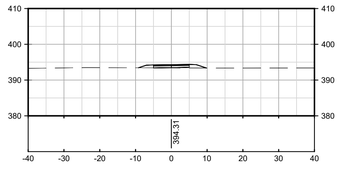
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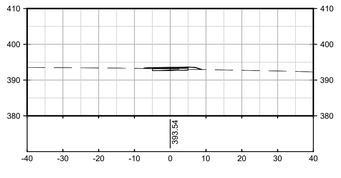
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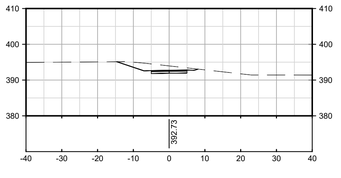
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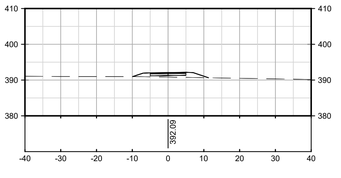
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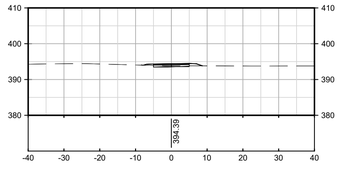
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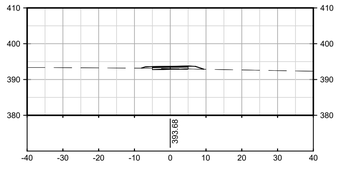
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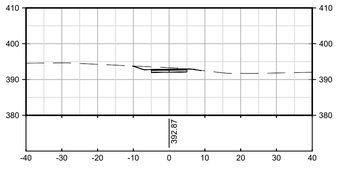
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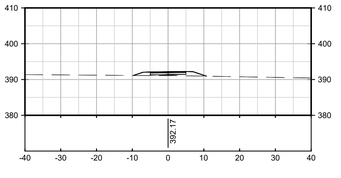
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133+75.00



SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 20'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA508 - Sections (Mid)

PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

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TRAIL SECTIONS

CERTIFICATION:

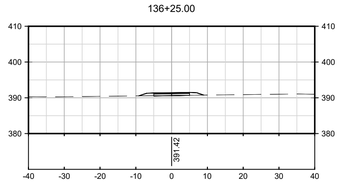
PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

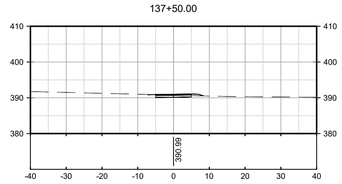
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DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

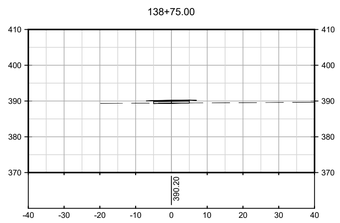
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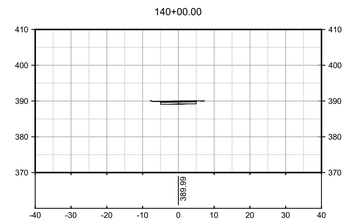
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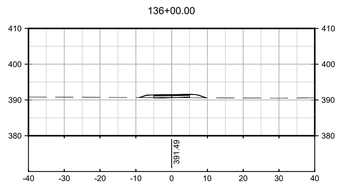
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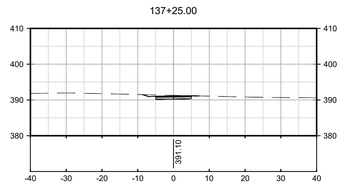


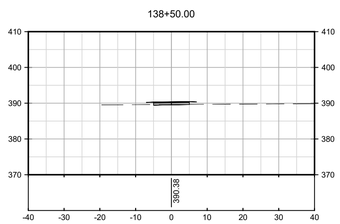


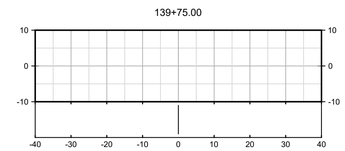


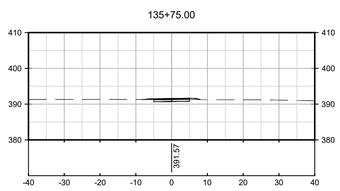


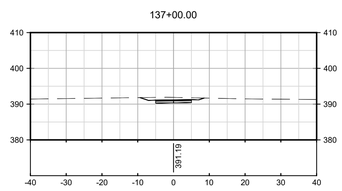


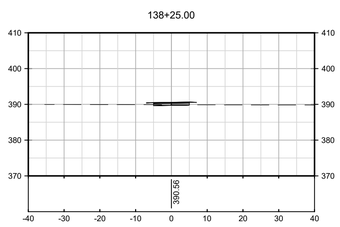


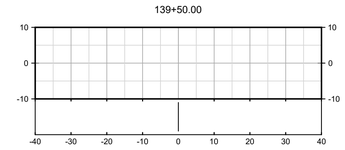


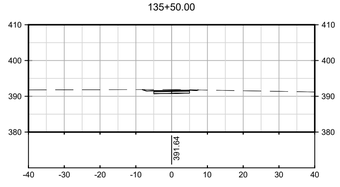


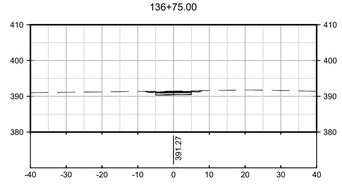


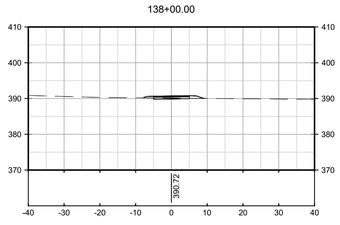


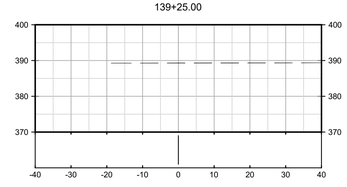


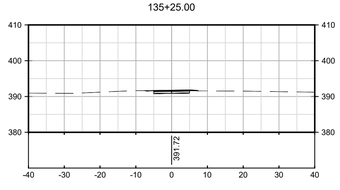


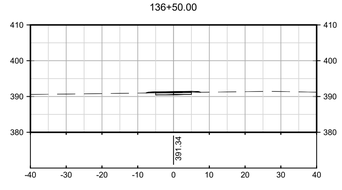


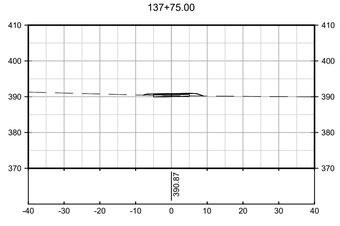


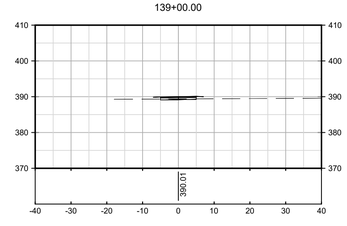












SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 20'-0"

FILE: P:\11766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA508 - Sections (Mid)

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

TRAIL SECTIONS

CERTIFICATION:

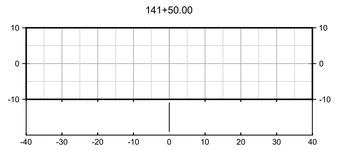
PETER J. ANDRIOT
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

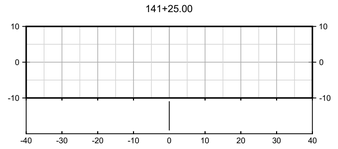
REA PROJECT #: 2024-1766
DATE: 03/31/2025
DRAWN BY: AG
REVIEWED BY: PA

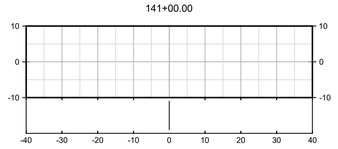
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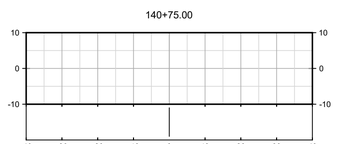
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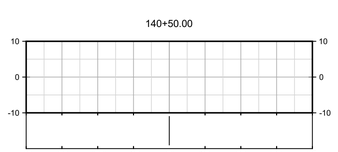
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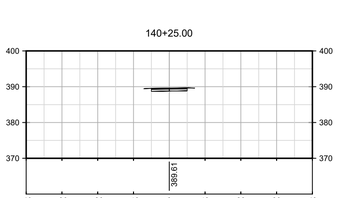












SCALE LEGEND
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 20'-0"

FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA508 - Sections (Mid)

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CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

REVISIONS:

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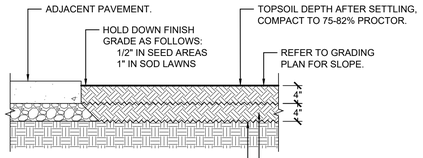
PETER M. ANDRIOT III
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA515

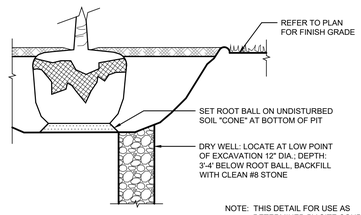
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GENERAL NOTES:

1. REMOVE ALL TRASH AND CONSTRUCTION DEBRIS PRIOR TO BACKFILLING.
2. VERIFY POSITIVE DRAINAGE PRIOR TO BACKFILLING.
3. REFER TO SPECIFICATIONS FOR PLANTING SOIL REQUIREMENTS.
4. REFER TO GRADING PLANS FOR SLOPE.

1 SOIL PROFILE AT SEED AREAS
SCALE: 3/4" = 1'-0"



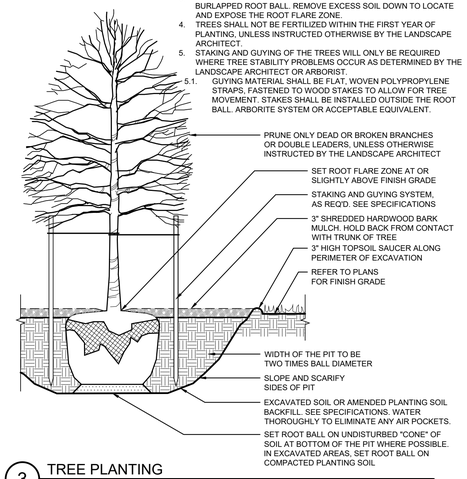
NOTE: THIS DETAIL FOR USE AS DETERMINED BY SITE CONDITIONS. REFER TO SPECIFICATIONS.

2 TREE PIT DRYWELL
NOT TO SCALE

GENERAL NOTES:

1. REMOVE THE ENTIRE WIRE BASKET, IF PRESENT. BEFORE THE TREE IS IN THE HOLE, REMOVE THE BOTTOM OF THE BASKET, CUTTING HORIZONTALLY. AFTER THE TREE IS IN THE HOLE, REMOVE THE REST OF THE WIRE BASKET, CUTTING VERTICALLY.
2. REMOVE TRUNK WRAP, IF PRESENT. REMOVE ALL TAGS AND LABELS UPON SUBSTANTIAL COMPLETION.
3. **IMPORTANT**: THE ROOT FLARE ZONE MAY BE BELOW TOP OF THE BURLAPPED ROOT BALL. REMOVE EXCESS SOIL DOWN TO LOCATE AND EXPOSE THE ROOT FLARE ZONE.
4. TREES SHALL NOT BE FERTILIZED WITHIN THE FIRST YEAR OF PLANTING, UNLESS INSTRUCTED OTHERWISE BY THE LANDSCAPE ARCHITECT.
5. STAKING AND GUYING OF THE TREES WILL ONLY BE REQUIRED WHERE TREE STABILITY PROBLEMS OCCUR AS DETERMINED BY THE LANDSCAPE ARCHITECT OR ARBORIST.

5.1. GUYING MATERIAL SHALL BE FLAT, WOVEN POLYPROPYLENE STRAPS, FASTENED TO WOOD STAKES TO ALLOW FOR TREE MOVEMENT. STAKES SHALL BE INSTALLED OUTSIDE THE ROOT BALL. ARBORITE SYSTEM OR ACCEPTABLE EQUIVALENT.



3 TREE PLANTING
NOT TO SCALE

PLANT SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE (min.)	ROOT	SPACING	NOTES
LARGE TREES						
ACE-GM	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	3" cal.	B&B	per plans	
GYM-E	Gymnocladus dioicus 'Espresso'	Espresso Kentucky Coffee Tree	3" cal.	B&B	per plans	
LIQ-H	Liquidambar styraciflua 'Hapdell'	Happidaze Sweet Gum	3" cal.	B&B	per plans	FRUITLESS CULTIVAR
LIQ-R	Liquidambar styraciflua 'Rotundiloba'	Roundleaf Sweet Gum	3" cal.	B&B	per plans	
NYS-W	Nyssa sylvatica 'Wildfire'	Wildfire Black Gum (Tupelo)	3" cal.	B&B	per plans	
PLA-O	Platinus occidentalis	American Sycamore	3" cal.	B&B	per plans	
QUE-B	Quercus bicolor	Swamp White Oak	3" cal.	B&B	per plans	
QUE-L	Quercus lyrata	Overcup Oak	3" cal.	B&B	per plans	
QUE-P	Quercus pagoda	Cherrybark Oak	3" cal. *	B&B	per plans	* Notify landscape architect if not available.
QUE-W	Quercus phellos	Willow Oak	3" cal.	B&B	per plans	
TAX-D	Taxodium distichum	Bald Cypress	3" cal.	B&B	per plans	
TIL-AS	Tilia americana 'American Sentry'	American Sentry Linden	3" cal.	B&B	per plans	
ULM-VF	Ulmus americana 'Valley Forge'	Valley Forge American Elm	3" cal.	B&B	per plans	
MEDIUM TREES						
BET-C	Betula nigra 'Cully'	Heritage River Birch	10' tall	B&B	per plans	Multi-stem clump form. Three trunk min.
CEL-C	Celtis occidentalis 'Chicagoland'	Chicago Land Hack Berry	3" cal.	B&B	per plans	
CER-C	Cercis canadensis	Eastern Redbud	2" cal.	B&B	per plans	Single-stem tree form.
CLA-K	Cladrastus kentuckea	Yellow Wood	3" cal.	B&B	per plans	
JUN-C	Juniperus virginiana 'Canaertii'	Canaertii Easter Red Cedar	10' tall	B&B	per plans	
PIN-V	Pinus virginiana	Virginia Pine	10' tall	B&B	per plans	

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CONSULTANT:

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DRAWING NAME:

PLANTING SCHEDULE AND DETAILS

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

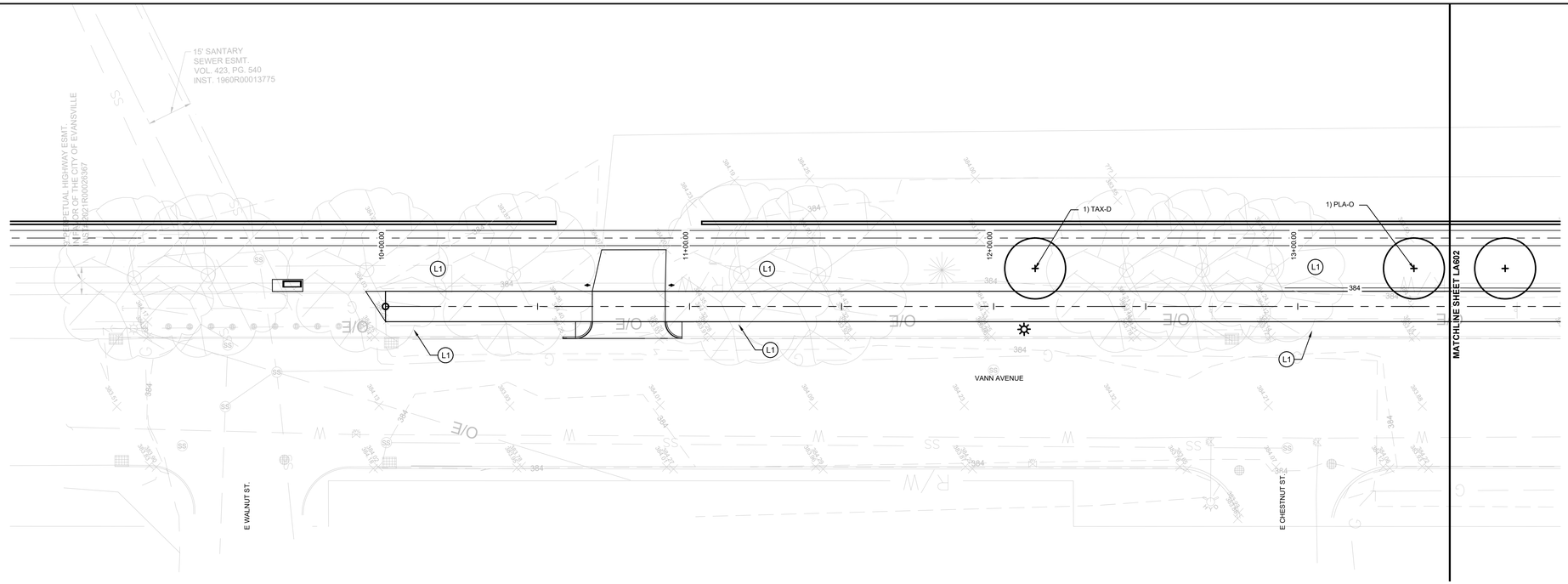
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA600

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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA600 - Planting Schedule And Details



PLANTING SCHEDULE & DETAILS:

1. REFER TO SHEETS LA600 FOR PLANTING SCHEDULE AND PLANTING DETAILS.
2. REFER TO SHEET LA600 FOR SOIL PROFILE DETAIL.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PLANTING GENERAL NOTES:

1. NOTIFY OWNER/LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN SPECIFICATIONS AND DRAWINGS, PRIOR TO THE BID DATE, AND/OR PRIOR TO CONSTRUCTION.
2. LANDSCAPE ARCHITECT AND OWNER TO INSPECT ALL PLANT LOCATIONS AND PLANT BED EDGES PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL MAKE OWN PLANT QUANTITY TAKEOFFS USING DRAWINGS, SPECIFICATIONS, AND PLANT SCHEDULE REQUIREMENTS (IE. SPACING), UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. CONTRACTOR TO VERIFY BED MEASUREMENTS AND INSTALL APPROPRIATE QUANTITIES AS GOVERNED BY PLANT SPACING PER SCHEDULE. CONTRACTOR SHALL ACCOUNT FOR ALL SLOPES IN MATERIAL QUANTITY CALCULATIONS. ADDITIONAL MATERIAL MAY BE NEEDED TO MEET SPACING REQUIREMENTS AND FIELD CONDITIONS.
4. DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT AVAILABLE, SUBMIT PROOF OF NON-AVAILABILITY TO LANDSCAPE ARCHITECT TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO DETERMINE MATERIAL EQUIVALENCY.
5. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IN WRITING PRIOR TO BID DATE OF ANY PLANTS THAT HE FEELS MAY NOT SURVIVE TRANSPLANTING OPERATION OR IN LOCATIONS NOTED.
6. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES, AND EXISTING PLANTS FROM DAMAGE CAUSED BY PLANTING OPERATIONS. RECONDITION AND SOD ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT ARE NOT TO RECEIVE OTHER SURFACE TREATMENT (PRESERVED, RENOVATED AREAS, MULCH, GROUNDCOVER, ETC.).
7. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND QUANTIFYING THE EXISTENCE OF SUITABLE TOPSOIL (REFER TO SPECIFICATIONS FOR TOPSOIL TESTING, AMENDING, AND STRIPPING AND STOCKPILING REQUIREMENTS). THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER/LANDSCAPE ARCHITECT WITH A TOPSOIL TEST ANALYSIS. IF SUITABLE TOPSOIL IS NOT PRESENT ON SITE, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TOPSOIL ACCORDING TO THE PLANS, DETAILS, AND SPECIFICATIONS. TOPSOIL SHALL BE AMENDED PER SPECIFICATIONS AND BE TRANSITIONED INTO SUBGRADE ACCORDING TO LANDSCAPE DETAILS AND SPECIFICATIONS.
8. LANDSCAPE CONTRACTOR SHALL COORDINATE WITH EARTHWORK CONTRACTOR FOR QUANTITY AND PLACEMENT OF TOPSOIL IN LAWNS AND PLANT BEDS. LANDSCAPE CONTRACTOR SHALL VERIFY DEPTH OF TOPSOIL AND FINISH GRADE PRIOR TO PLANT INSTALLATION. REFER TO SPECIFICATIONS FOR TESTING AND PLACEMENT REQUIREMENTS OF TOPSOIL.
9. AN APPROVED PRE-EMERGENT HERBICIDE SHALL BE APPLIED IN ALL PLANTING AND GROUND COVER BEDS AT RATES SPECIFIED BY MANUFACTURER FOR EACH SPECIFIC PLANT.
10. PLANTS AND ALL OTHER MATERIALS TO BE STORED ON-SITE WILL BE PLACED WHERE THEY WILL NOT CONFLICT WITH CONSTRUCTION OPERATIONS AND AS DIRECTED BY OWNER.
11. THE LANDSCAPE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES THAT MAY BE REQUIRED FOR HIS PORTION OF WORK.

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

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815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

PLANTING PLAN

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

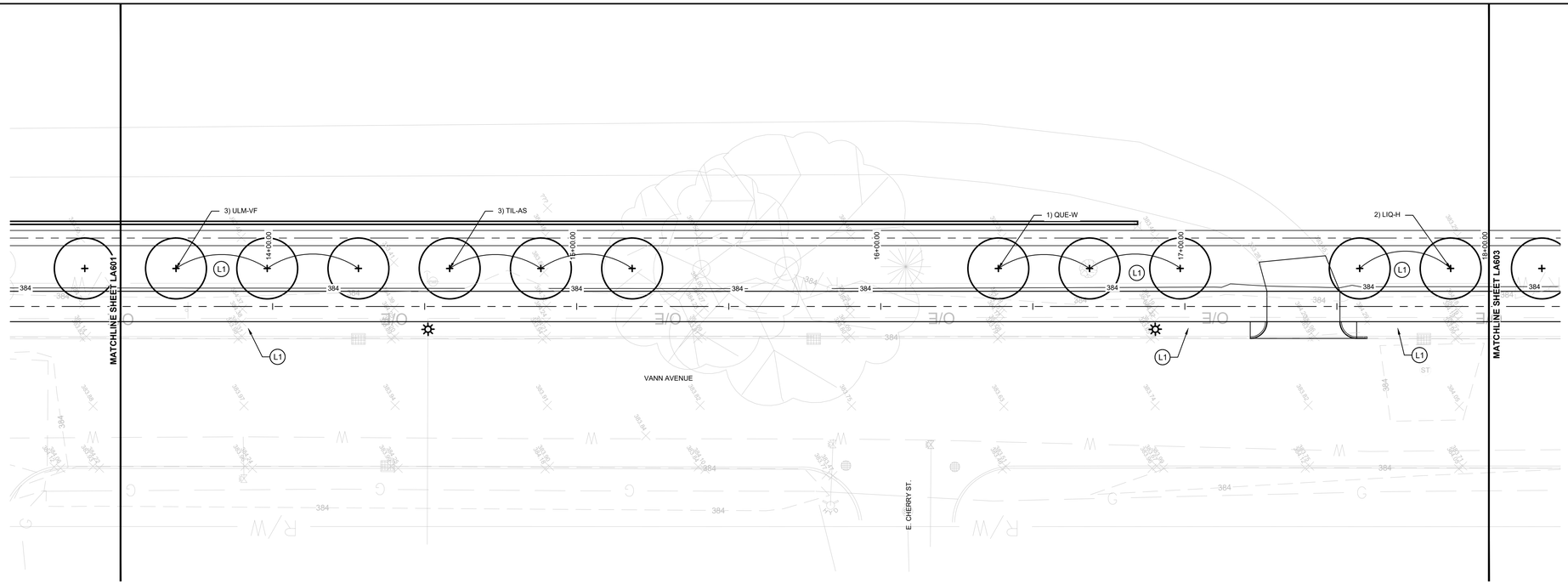
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA601

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA601 - Planting Plan



PLANTING SCHEDULE & DETAILS:

1. REFER TO SHEETS LA600 FOR PLANTING SCHEDULE AND PLANTING DETAILS.
2. REFER TO SHEET LA600 FOR SOIL PROFILE DETAIL.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PLANTING GENERAL NOTES:

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3. CONTRACTOR SHALL MAKE OWN PLANT QUANTITY TAKEOFFS USING DRAWINGS, SPECIFICATIONS, AND PLANT SCHEDULE REQUIREMENTS (IE. SPACING), UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. CONTRACTOR TO VERIFY BED MEASUREMENTS AND INSTALL APPROPRIATE QUANTITIES AS GOVERNED BY PLANT SPACING PER SCHEDULE. CONTRACTOR SHALL ACCOUNT FOR ALL SLOPES IN MATERIAL QUANTITY CALCULATIONS. ADDITIONAL MATERIAL MAY BE NEEDED TO MEET SPACING REQUIREMENTS AND FIELD CONDITIONS.
4. DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT AVAILABLE, SUBMIT PROOF OF NON-AVAILABILITY TO LANDSCAPE ARCHITECT TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO DETERMINE MATERIAL EQUIVALENCY.
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PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

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2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

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0' 10' 20' 40'

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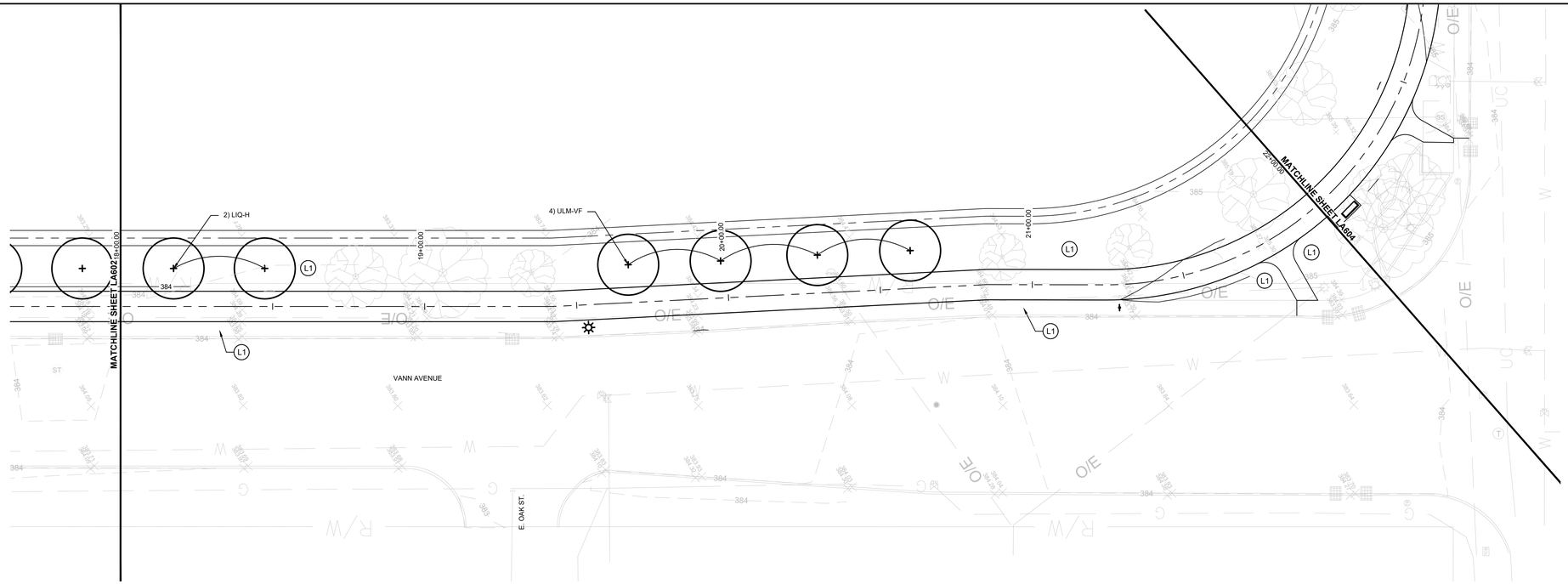
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA602

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA601 - Planting Plan



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PREPARED BY:

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P 502.561.8676 / REASITE.COM

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Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'

SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

PLANTING PLAN

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF INDIANA
LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA603

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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA601 - Planting Plan



PLANTING SCHEDULE & DETAILS:

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA601 - Planting Plan

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
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Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'
SCALE: 1" = 20'

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CERTIFICATION:

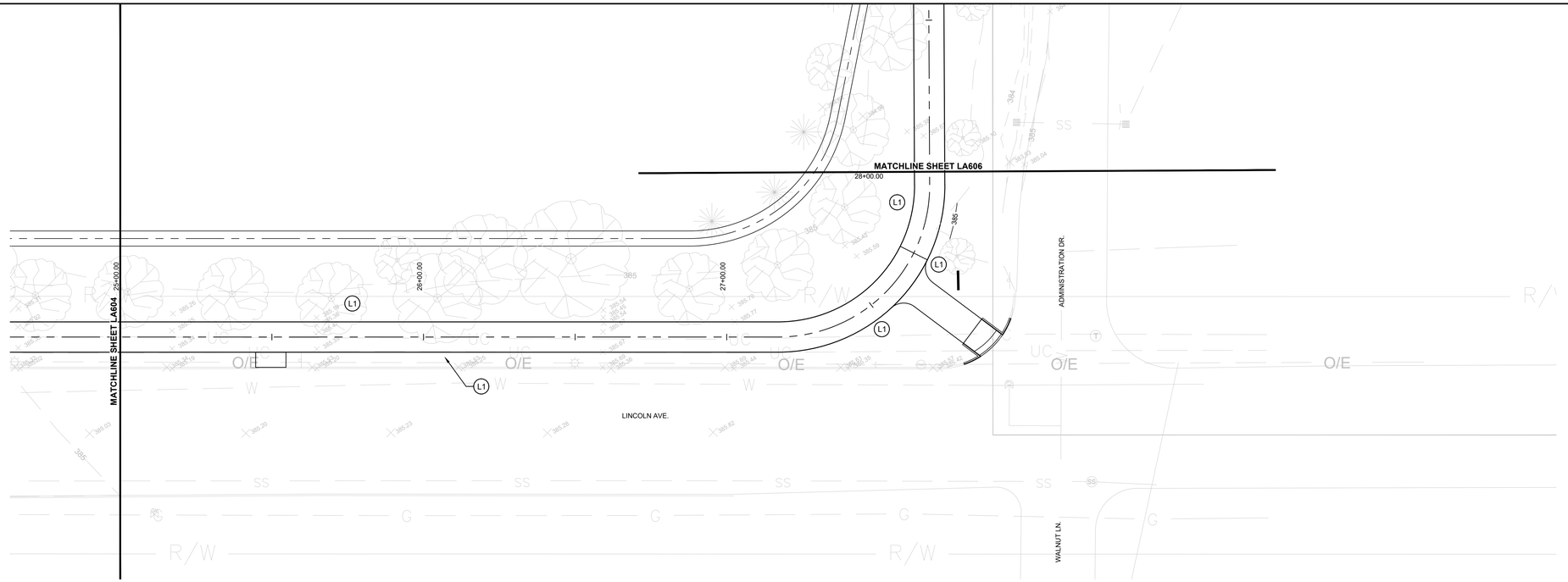
PETER M. ANDRIOT II
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LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA604

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PLANTING SCHEDULE & DETAILS:

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA601 - Planting Plan

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REA
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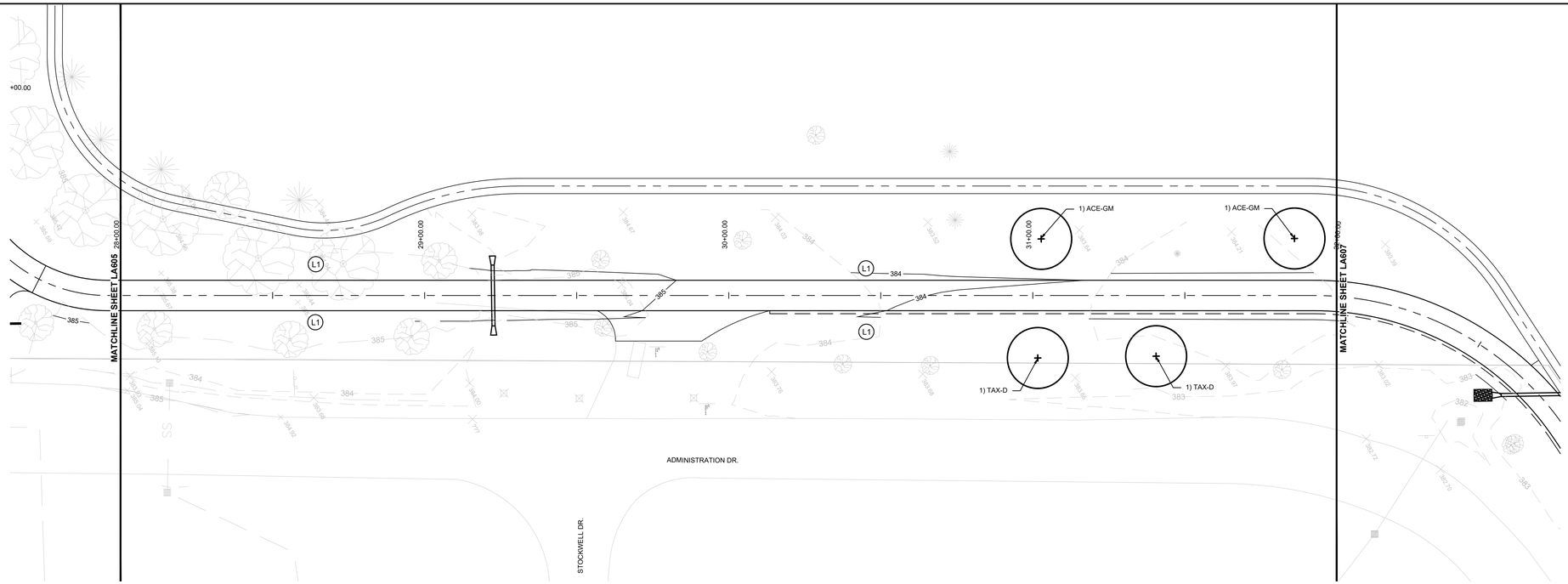
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REA PROJECT #:	2024-1766
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DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA605

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PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'

SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

PLANTING PLAN

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF INDIANA
LANDSCAPE ARCHITECT

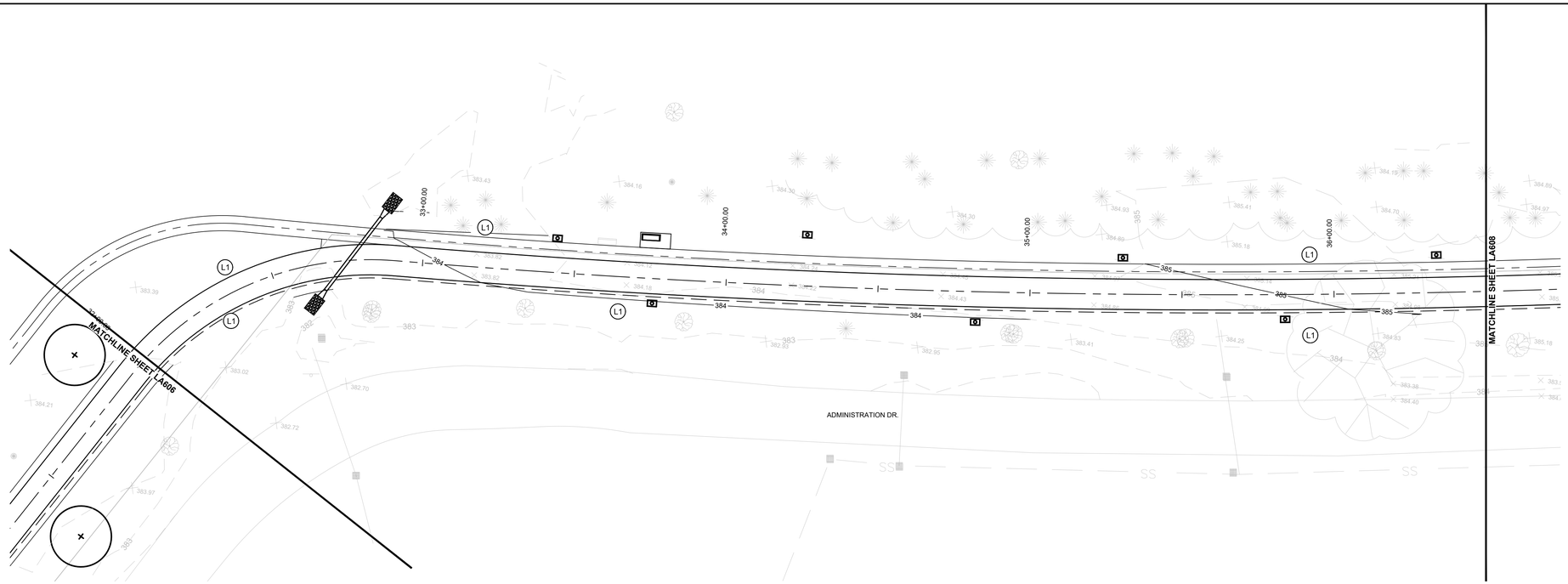
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA606

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA601 - Planting Plan



PLANTING SCHEDULE & DETAILS:

1. REFER TO SHEETS LA600 FOR PLANTING SCHEDULE AND PLANTING DETAILS.
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URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

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C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'

SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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PLANTING PLAN

CERTIFICATION:

PETER M. ANDRIOT II — REGISTERED — No. 20800187 — STATE OF INDIANA — LANDSCAPE ARCHITECT

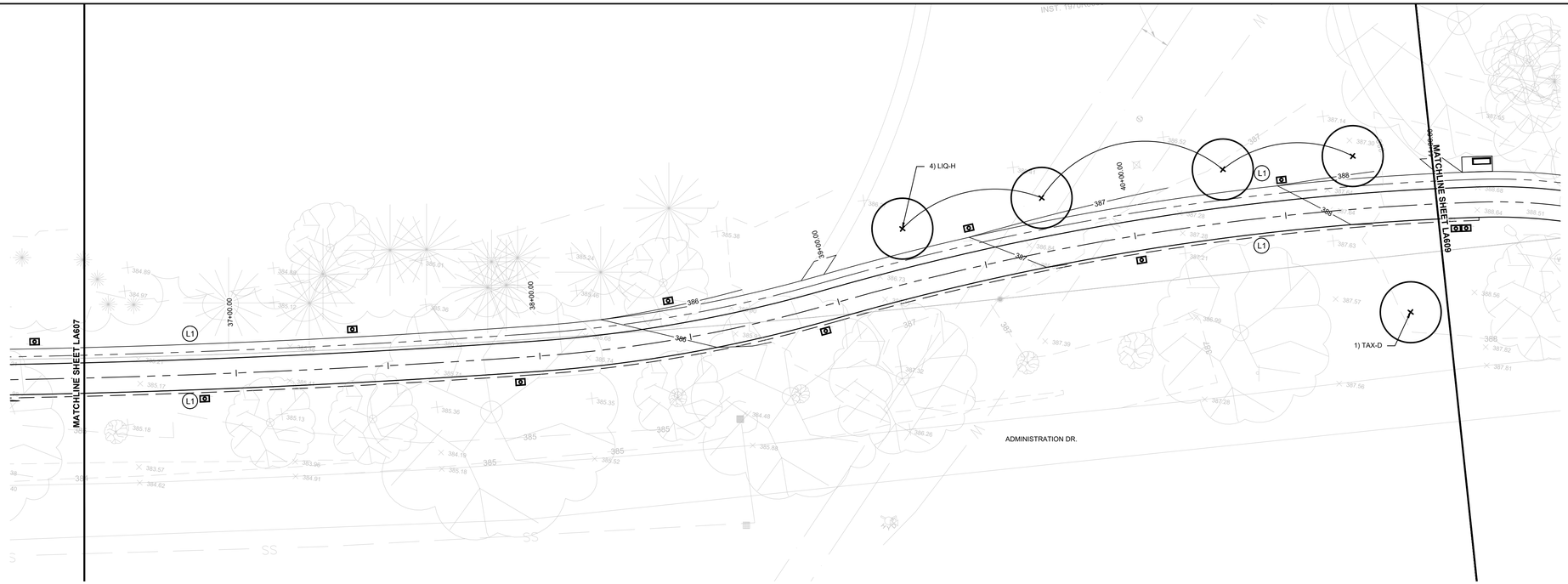
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA607

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA601 - Planting Plan



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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA601 - Planting Plan

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RUNDELL ERNSTBERGER ASSOCIATES
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PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'

SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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PLANTING PLAN

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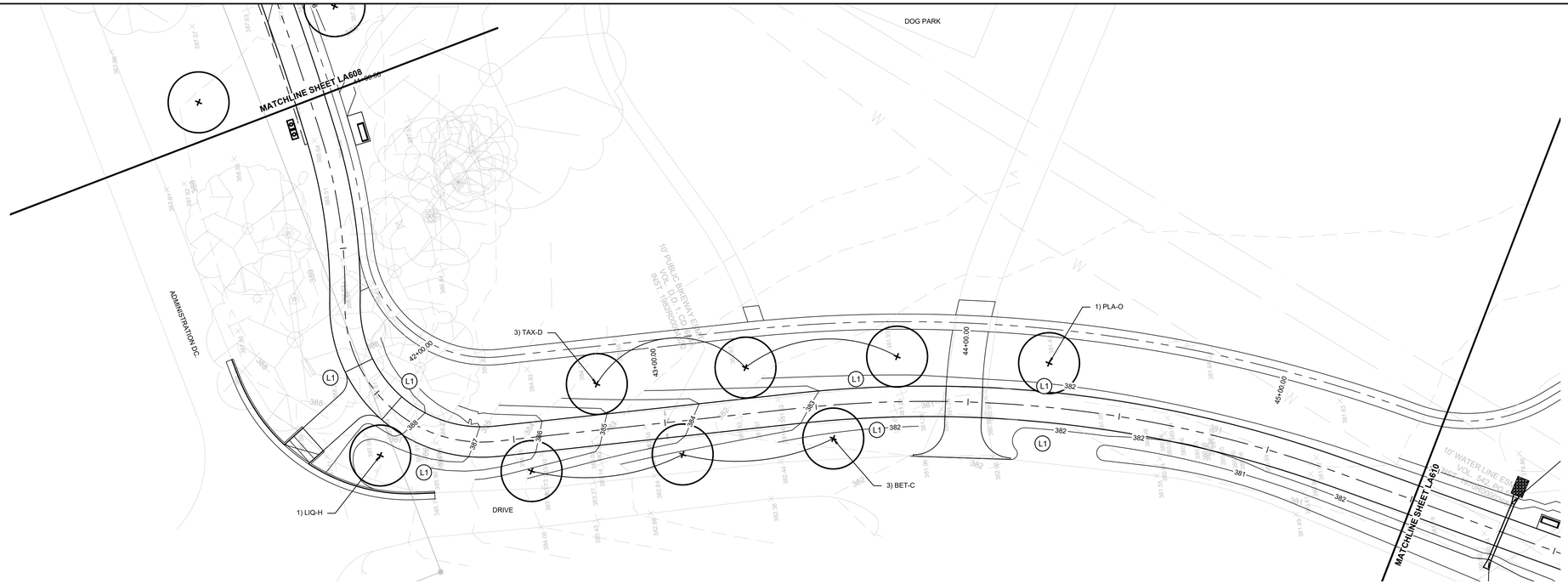
PETER M. ANDRIOT II REGISTERED No. 20800187 STATE OF INDIANA LANDSCAPE ARCHITECT

REA PROJECT #: 2024-1766
DATE: 03/31/2025
DRAWN BY: AG
REVIEWED BY: PA

DRAWING:

LA608

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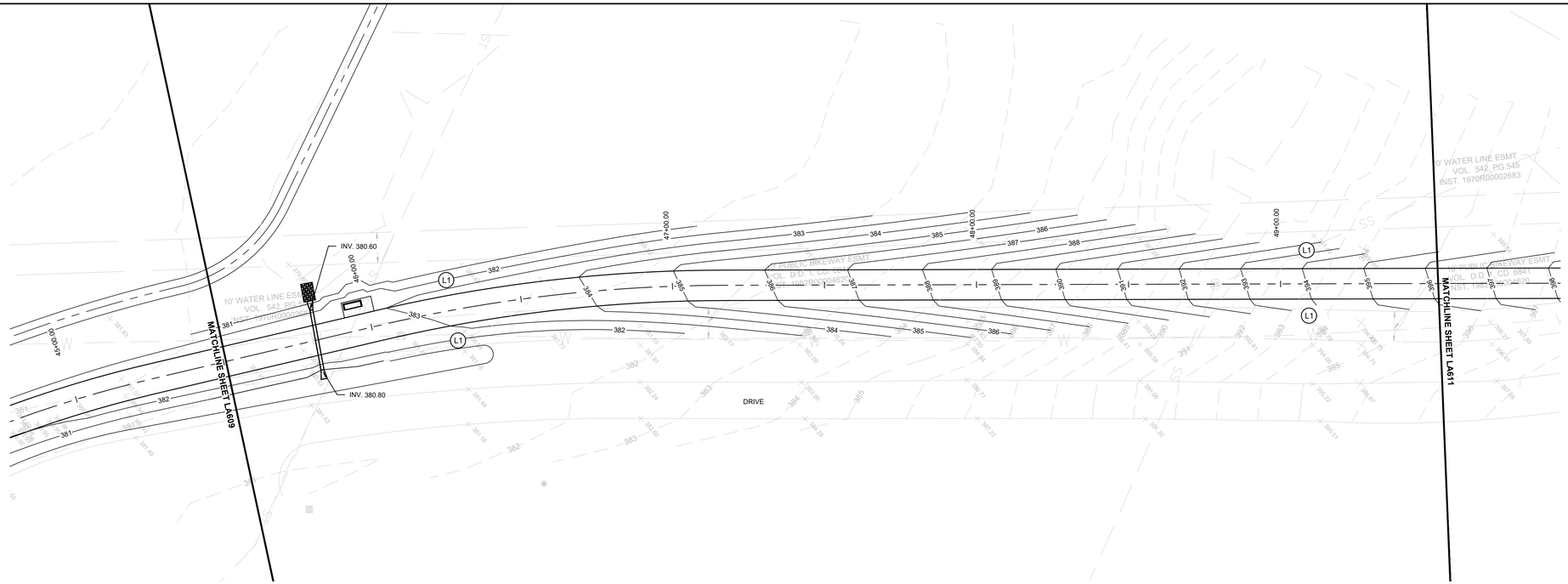
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA609

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA601 - Planting Plan



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PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'

SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

PLANTING PLAN

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

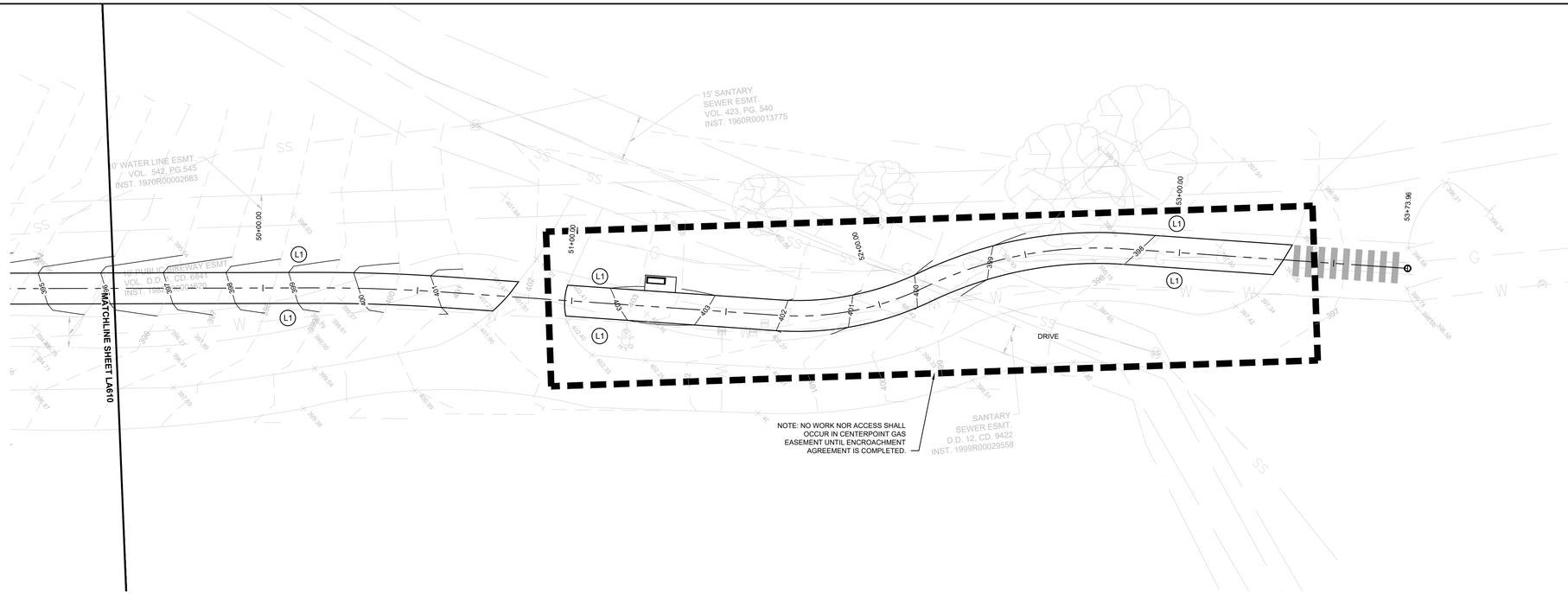
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA610

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA601 - Planting Plan



PLANTING SCHEDULE & DETAILS:

1. REFER TO SHEETS LA600 FOR PLANTING SCHEDULE AND PLANTING DETAILS.
2. REFER TO SHEET LA600 FOR SOIL PROFILE DETAIL.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PLANTING GENERAL NOTES:

1. NOTIFY OWNER/LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN SPECIFICATIONS AND DRAWINGS, PRIOR TO THE BID DATE, AND/OR PRIOR TO CONSTRUCTION.
2. LANDSCAPE ARCHITECT AND OWNER TO INSPECT ALL PLANT LOCATIONS AND PLANT BED EDGES PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL MAKE OWN PLANT QUANTITY TAKEOFFS USING DRAWINGS, SPECIFICATIONS, AND PLANT SCHEDULE REQUIREMENTS (IE. SPACING), UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. CONTRACTOR TO VERIFY BED MEASUREMENTS AND INSTALL APPROPRIATE QUANTITIES AS GOVERNED BY PLANT SPACING PER SCHEDULE. CONTRACTOR SHALL ACCOUNT FOR ALL SLOPES IN MATERIAL QUANTITY CALCULATIONS. ADDITIONAL MATERIAL MAY BE NEEDED TO MEET SPACING REQUIREMENTS AND FIELD CONDITIONS.
4. DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT AVAILABLE, SUBMIT PROOF OF NON-AVAILABILITY TO LANDSCAPE ARCHITECT TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO DETERMINE MATERIAL EQUIVALENCY.
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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA601 - Planting Plan

PREPARED BY:
REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

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CONSULTANT:

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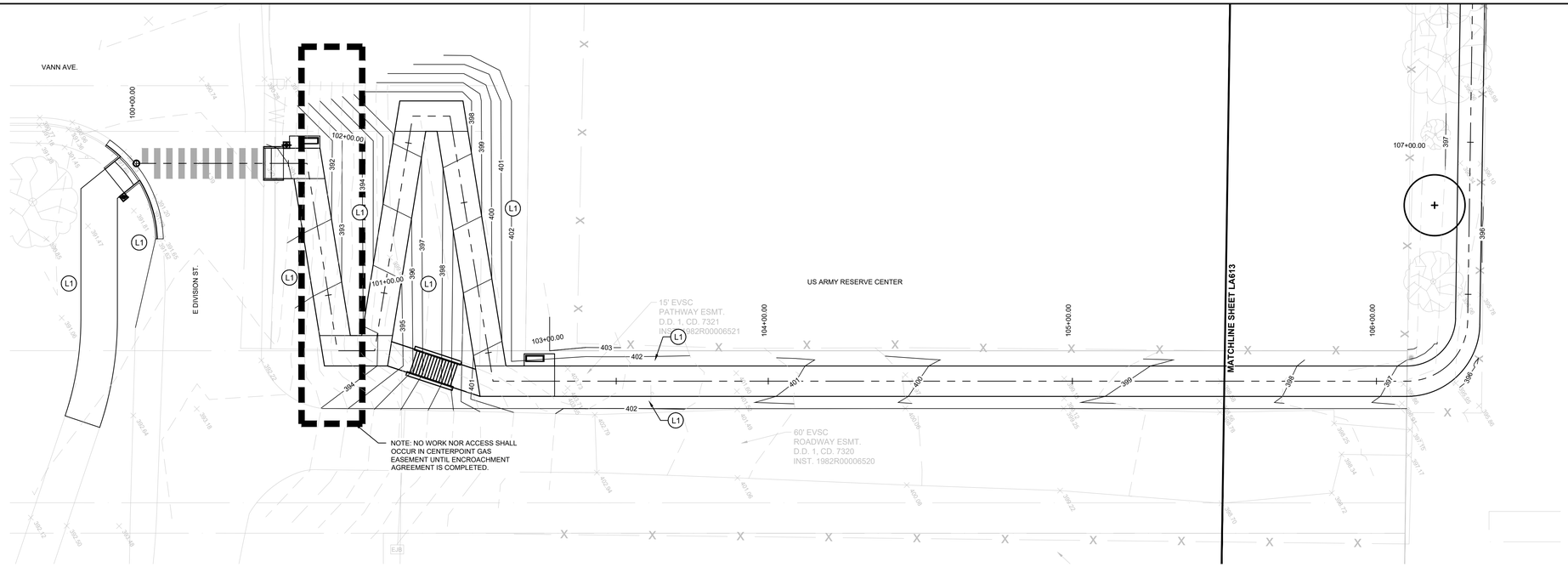
PETER M. ANDRIOT II REGISTERED No. 20800187 STATE OF INDIANA LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA611

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RUNDELL ERNSTBERGER ASSOCIATES

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815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

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Evansville, Indiana 47713
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CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

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CERTIFICATION:

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REGISTERED
No. 20800187
STATE OF
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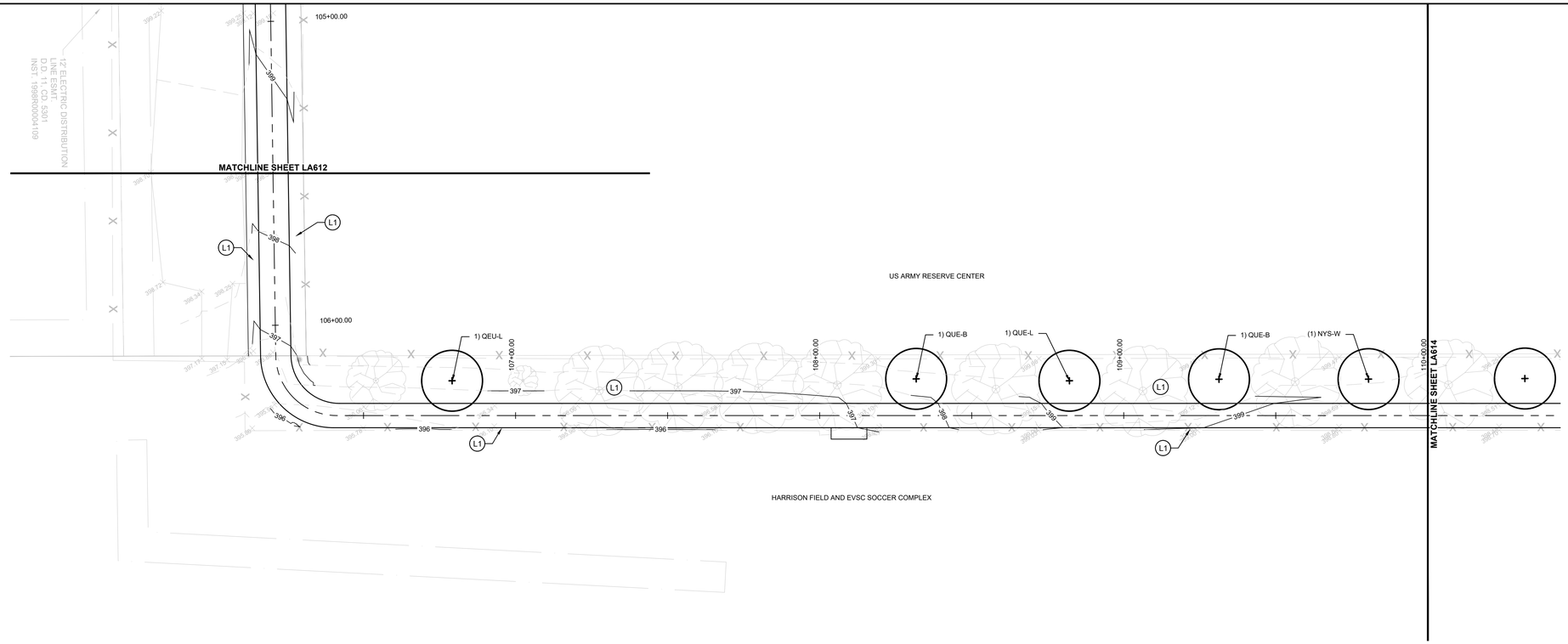
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA612

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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA612 - Planting Plan (Mid)



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URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
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PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

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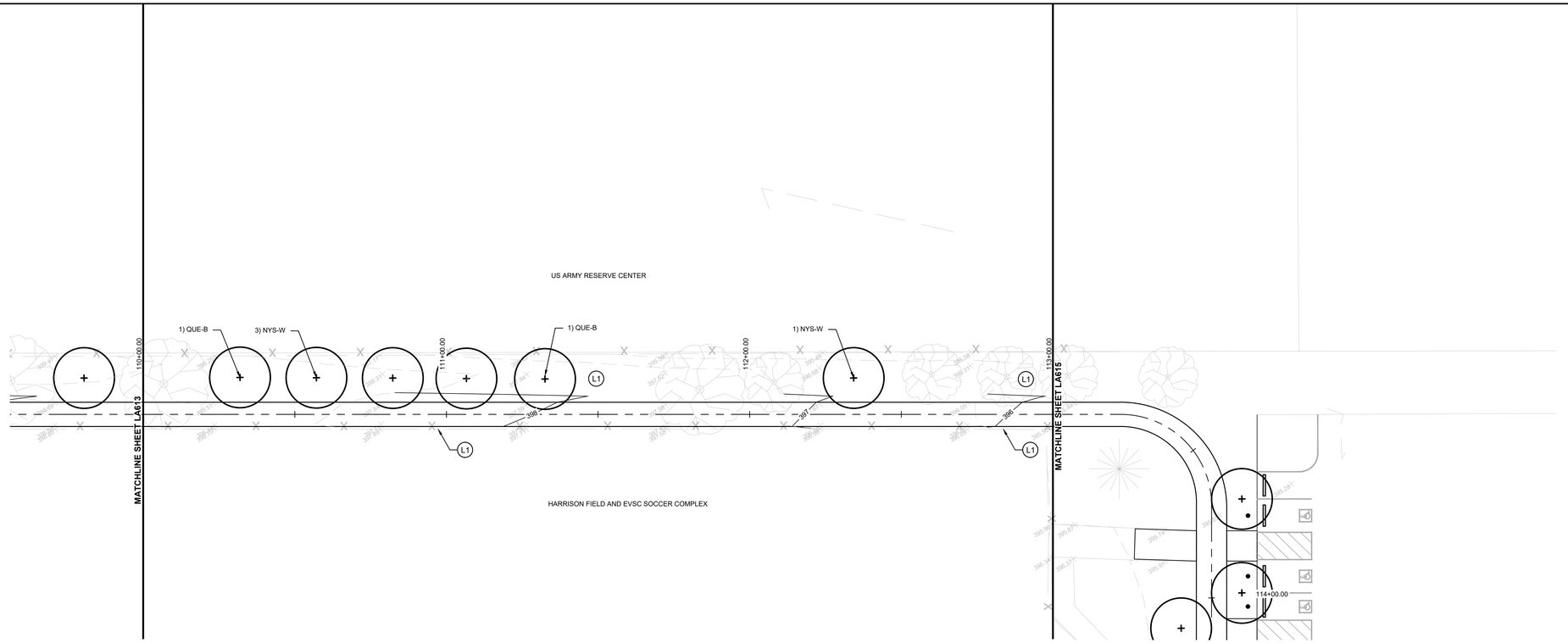
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA613

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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA612 - Planting Plan (Mid)



PLANTING SCHEDULE & DETAILS:

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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA612 - Planting Plan (Mid)

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

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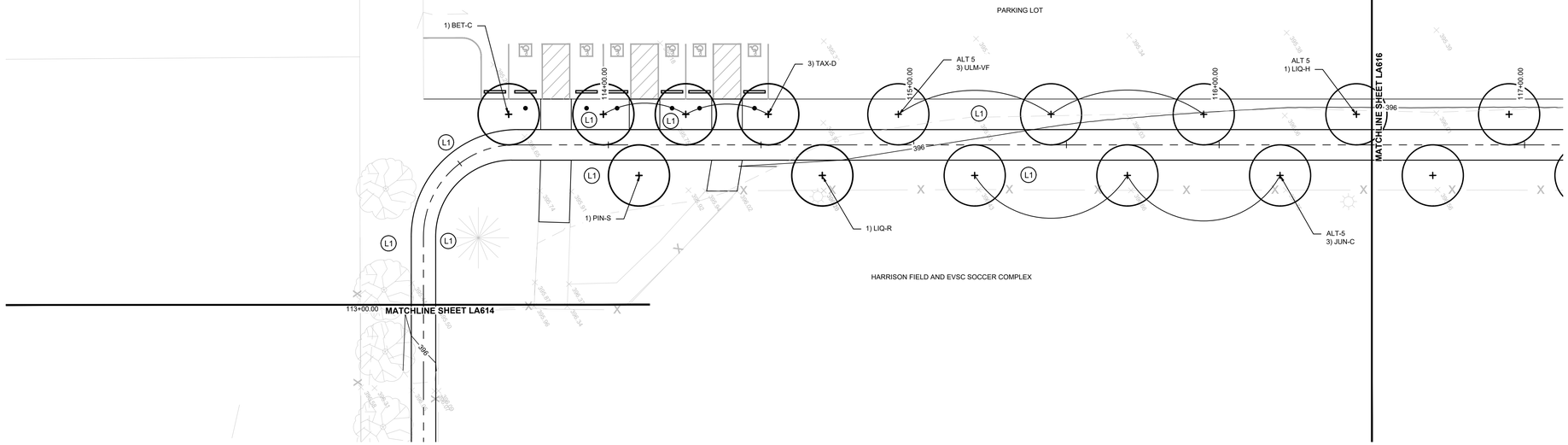
PETER M. ANDRIOT III
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REA PROJECT #:	2024-1766
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DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA614

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PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

PLANTING PLAN

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

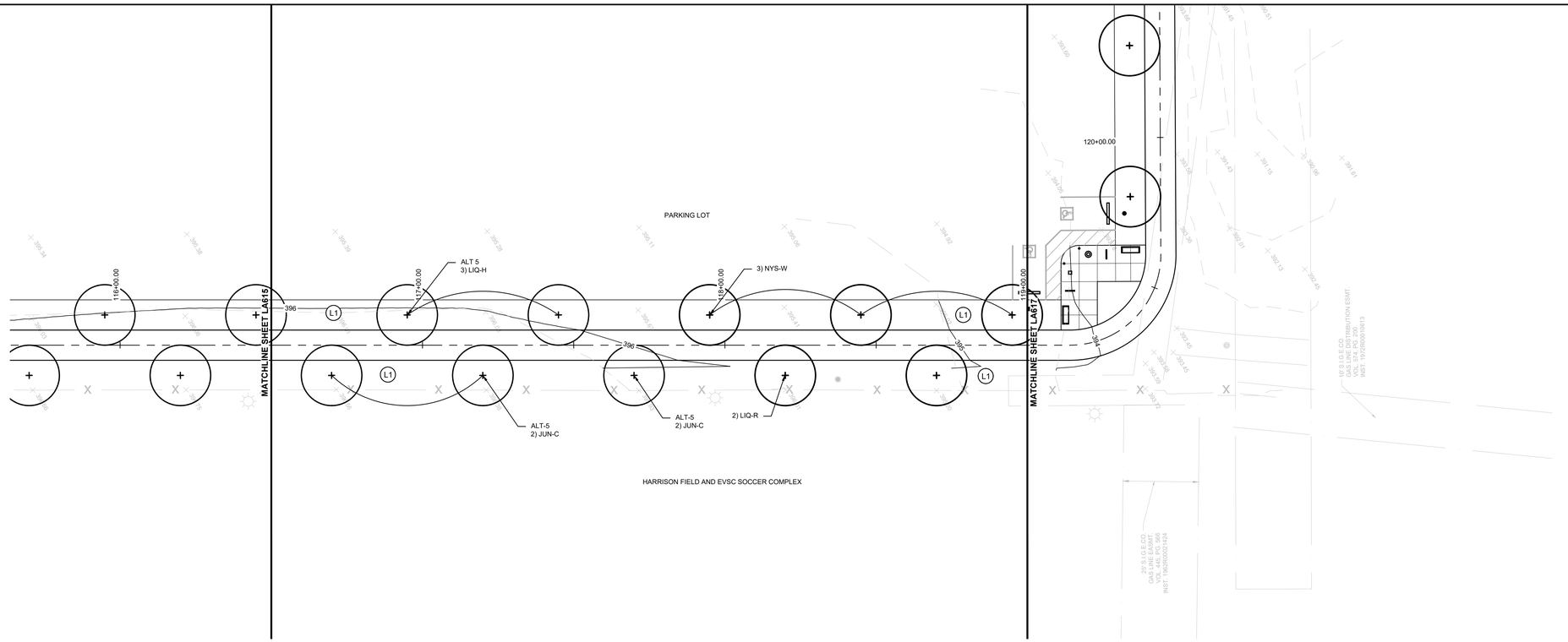
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA615

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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA612 - Planting Plan (Mid)



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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA612 - Planting Plan (Mid)

PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
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CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'
SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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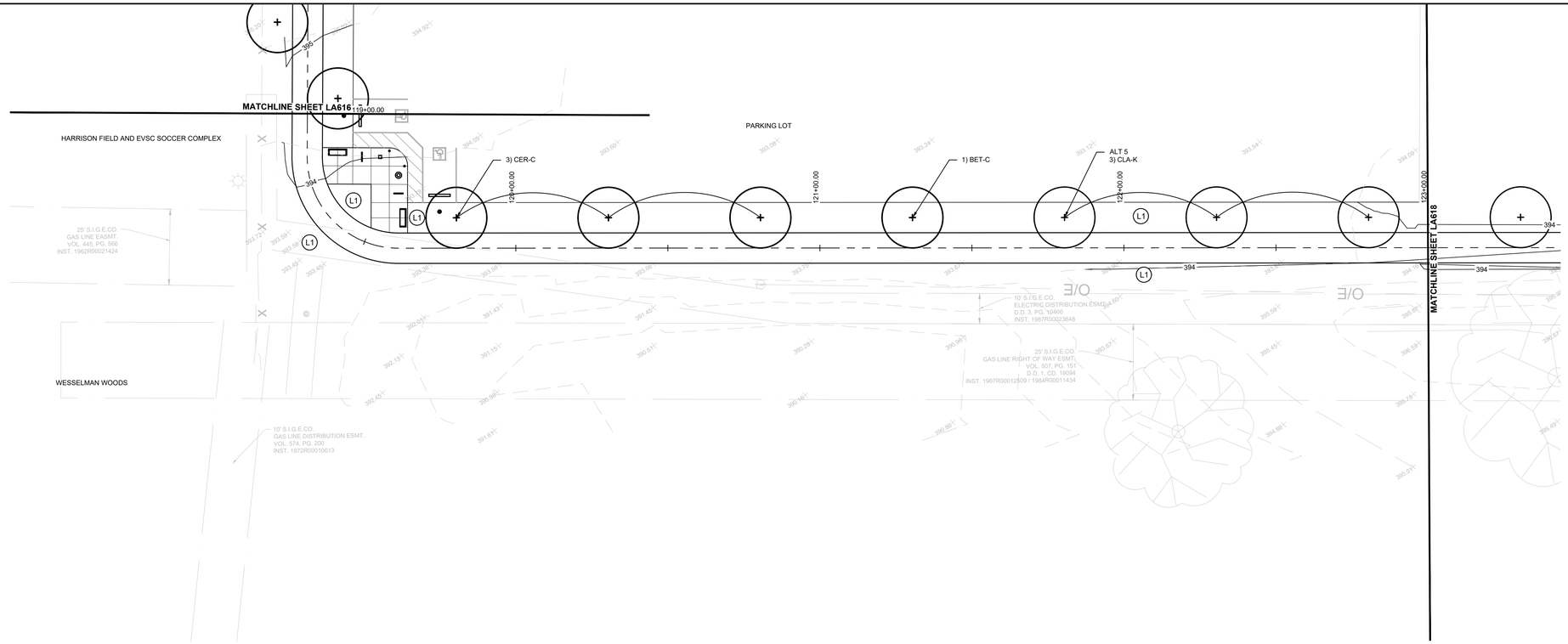
PETER M. ANDRIOT II
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REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA616

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PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'

SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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PLANTING PLAN

CERTIFICATION:

PETER M. ANDRIOT II REGISTERED No. 20800187 STATE OF INDIANA LANDSCAPE ARCHITECT

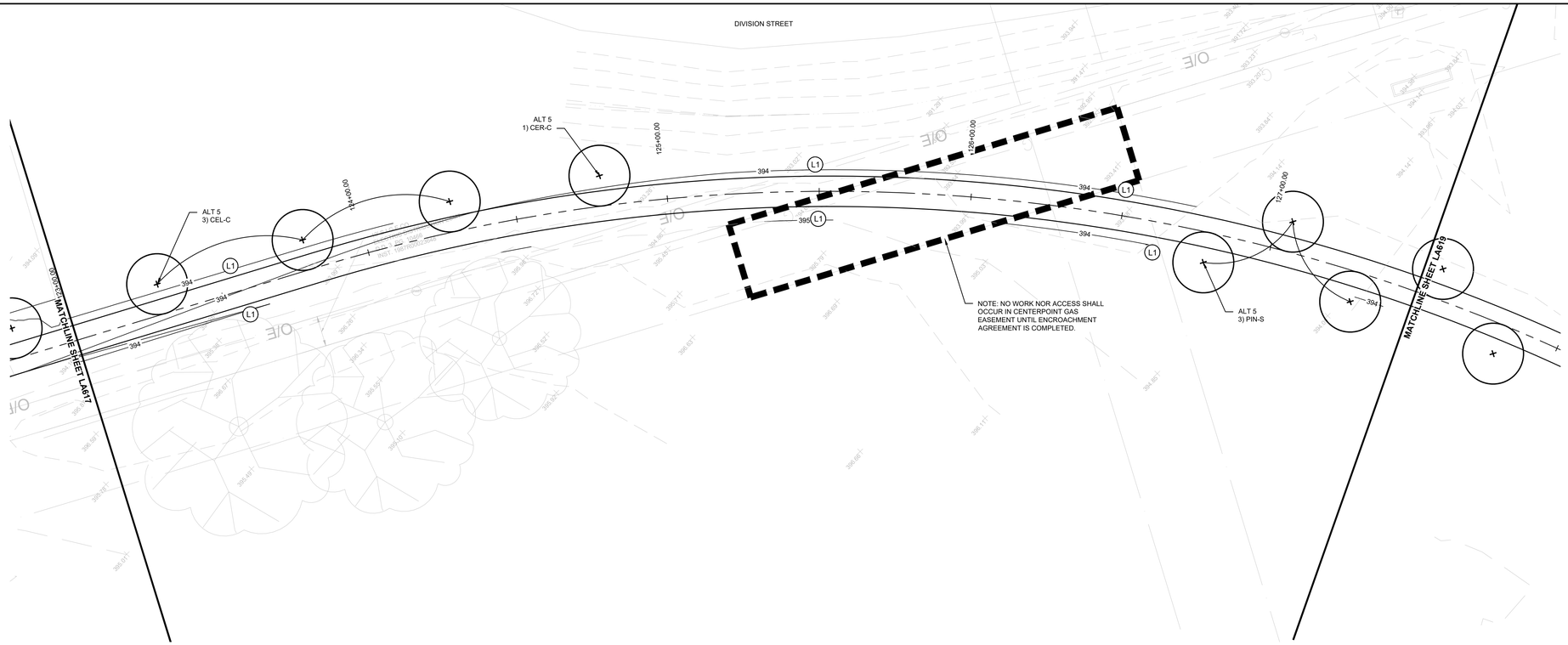
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA617

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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA612 - Planting Plan (Mid)



PLANTING SCHEDULE & DETAILS:

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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA612 - Planting Plan (Mid)

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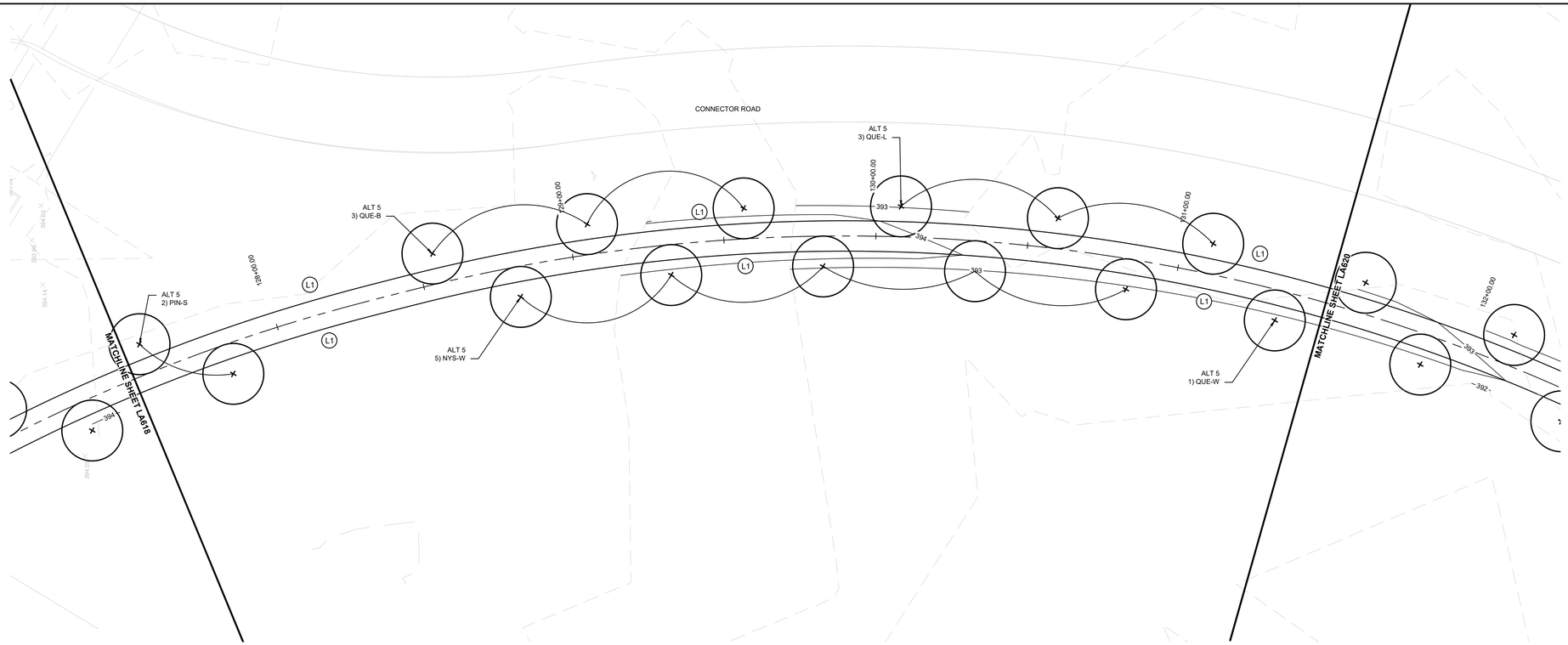
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REA PROJECT #:	2024-1766
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DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA618

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PREPARED BY:

RUNDELL ERNSTBERGER ASSOCIATES

URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
815 W MARKET ST, STE 504 / LOUISVILLE, KENTUCKY 40202
P 502.561.8676 / REASITE.COM

PREPARED FOR:

City of Evansville Parks and Recreation
100 E Walnut Street
C.K. Newsome Community Center
Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'

SCALE: 1" = 20'

REVISIONS:

NO.	BY	DESCRIPTION	DATE

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DRAWING NAME:

PLANTING PLAN

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF INDIANA
LANDSCAPE ARCHITECT

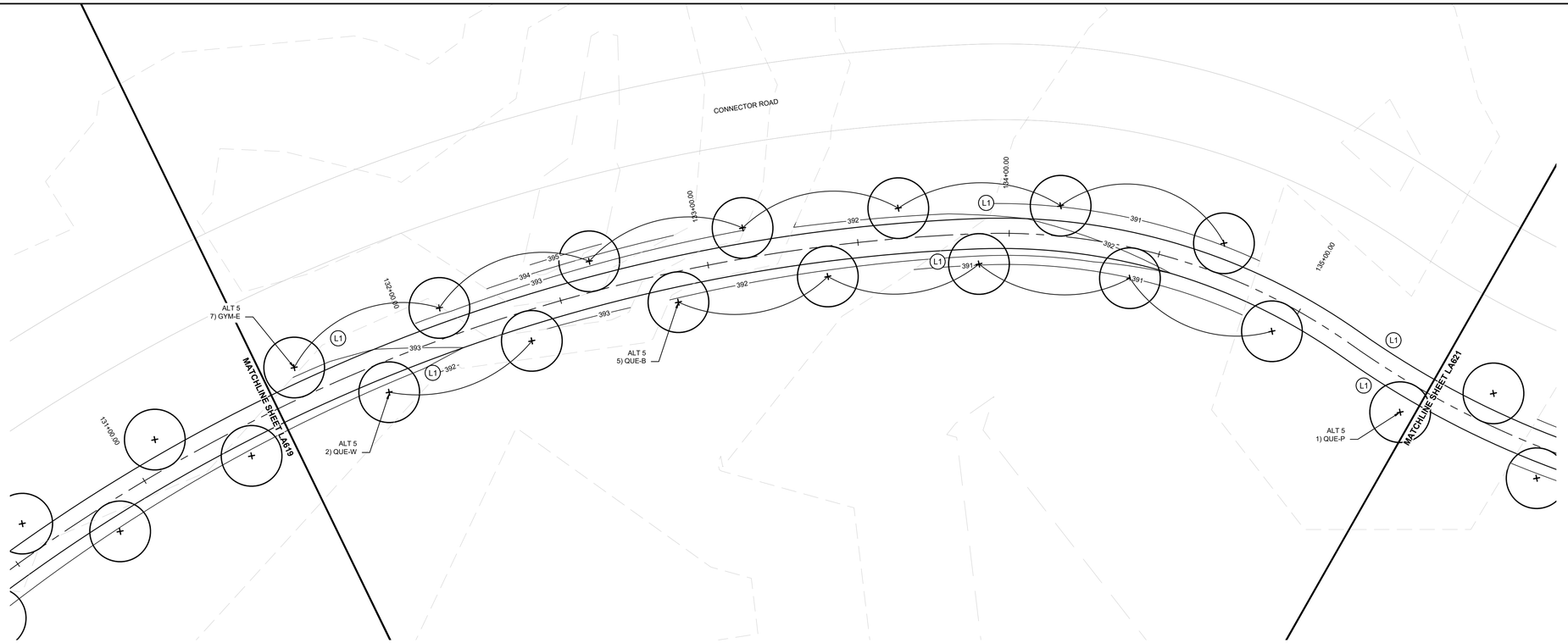
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA619

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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA612 - Planting Plan (Mid)



PLANTING SCHEDULE & DETAILS:

1. REFER TO SHEETS LA600 FOR PLANTING SCHEDULE AND PLANTING DETAILS.
2. REFER TO SHEET LA600 FOR SOIL PROFILE DETAIL.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PLANTING GENERAL NOTES:

1. NOTIFY OWNER/LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN SPECIFICATIONS AND DRAWINGS, PRIOR TO THE BID DATE, AND/OR PRIOR TO CONSTRUCTION.
2. LANDSCAPE ARCHITECT AND OWNER TO INSPECT ALL PLANT LOCATIONS AND PLANT BED EDGES PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL MAKE OWN PLANT QUANTITY TAKEOFFS USING DRAWINGS, SPECIFICATIONS, AND PLANT SCHEDULE REQUIREMENTS (IE. SPACING), UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. CONTRACTOR TO VERIFY BED MEASUREMENTS AND INSTALL APPROPRIATE QUANTITIES AS GOVERNED BY PLANT SPACING PER SCHEDULE. CONTRACTOR SHALL ACCOUNT FOR ALL SLOPES IN MATERIAL QUANTITY CALCULATIONS. ADDITIONAL MATERIAL MAY BE NEEDED TO MEET SPACING REQUIREMENTS AND FIELD CONDITIONS.
4. DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT AVAILABLE, SUBMIT PROOF OF NON-AVAILABILITY TO LANDSCAPE ARCHITECT TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO DETERMINE MATERIAL EQUIVALENCY.
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6. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES, AND EXISTING PLANTS FROM DAMAGE CAUSED BY PLANTING OPERATIONS. RECONDITION AND SOD ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES THAT ARE NOT TO RECEIVE OTHER SURFACE TREATMENT (PRESERVED, RENOVATED AREAS, MULCH, GROUNDCOVER, ETC.).
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FILE: P:\1766 Evansville Next Level Trails 2024\dwg\Phase 2\sheets\LA612 - Planting Plan (Mid)

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REA
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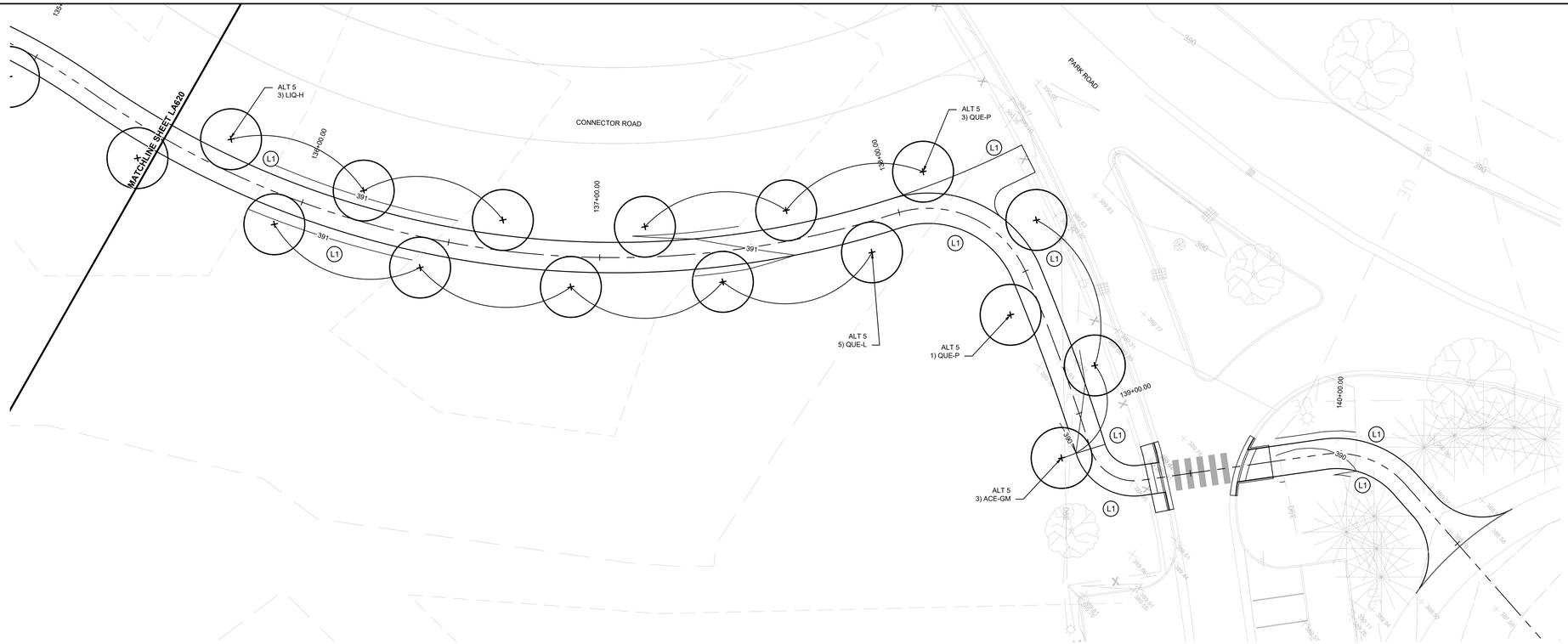
PETER M. ANDRIOT II
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No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA620

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Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

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0' 10' 20' 40'

SCALE: 1" = 20'

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PLANTING PLAN

CERTIFICATION:

PETER M. ANDRIOT II
REGISTERED
No. 20800187
STATE OF
INDIANA
LANDSCAPE ARCHITECT

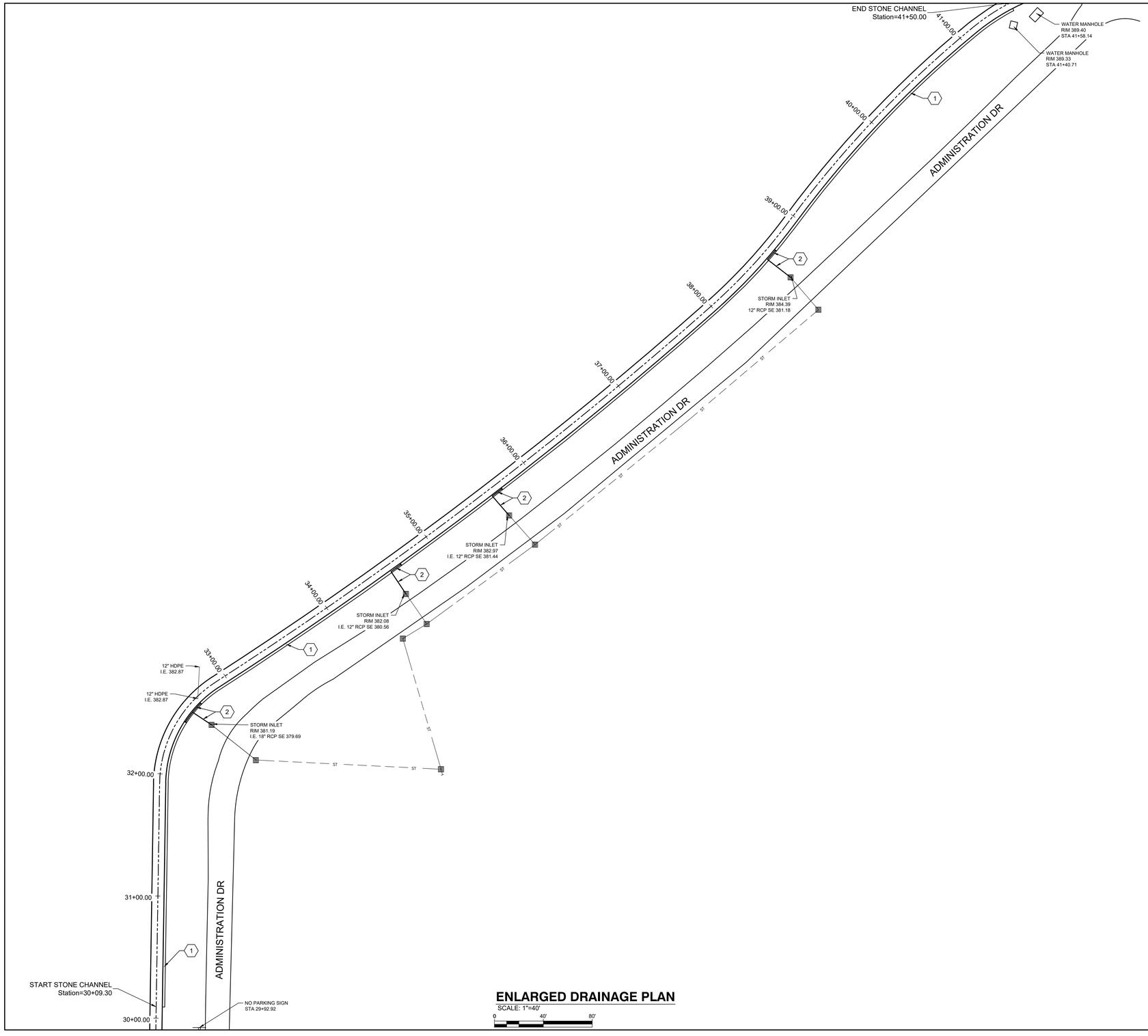
REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	AG
REVIEWED BY:	PA

DRAWING:

LA621

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FILE: P:\1766 Evansville Next Level Trails 2024\dwgs\Phase 2\sheets\LA612 - Planting Plan (Md)



ENLARGED DRAINAGE PLAN

SCALE: 1"=40'

0 40' 80'

DRAINAGE KEYNOTES:

1. INSTALL 1' WIDTH STONE CHANNEL. REFER TO TYPICAL FRENCH DRAIN SECTION FOR CHANNEL DEPTH AND ELEVATIONS.
2. INSTALL FRENCH DRAIN PERFORATED DRAINAGE TILE AND SOLID WALL PIPE CONNECTOR ON INLETS. REFER TO TYPICAL FRENCH DRAIN WITH PERFORATED DRAIN PIPE SECTION.

FILE: L:\Civil 3D 2023\24318A REA - Next Level Trails Drainage Design\2-DWG\24318A BASE Survey_REV

1"
0"

PREPARED BY:

REA
RUNDELL ERNSTBERGER ASSOCIATES
URBAN DESIGN / PLANNING / LANDSCAPE ARCHITECTURE
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Evansville, Indiana 47713
PH 812.435.6141 FX 812.435.6142

CONSULTANT:

THREE i DESIGN
ENGINEERING + ARCHITECTURE
WWW.THREEIDESIGN.COM EVANSVILLE, IN 812-423-6800

PROJECT:

2024 EVANSVILLE NEXT LEVEL TRAILS - PHASE 2

EVANSVILLE, INDIANA

BID DOCUMENTS

NORTH

0' 10' 20' 40'

SCALE: 1" = 20'

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DRAWING NAME:

ENLARGED DRAINAGE

CERTIFICATION:

LYLE A. MEHRINGER
REGISTERED
No. PE11300304
STATE OF
INDIANA
PROFESSIONAL ENGINEER

REA PROJECT #:	2024-1766
DATE:	03/31/2025
DRAWN BY:	KNK
REVIEWED BY:	LAM

DRAWING:

C-100

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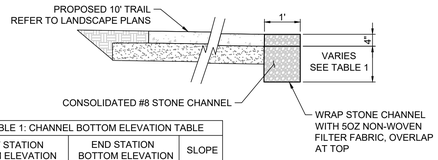
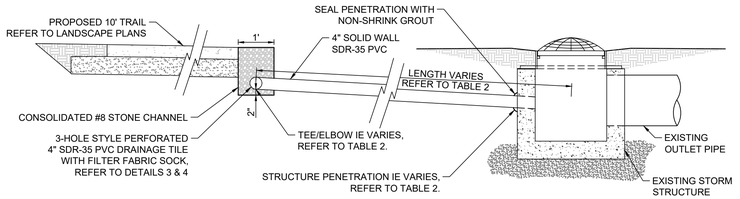


TABLE 1: CHANNEL BOTTOM ELEVATION TABLE		
START STATION BOTTOM ELEVATION	END STATION BOTTOM ELEVATION	SLOPE
STA 30+09.30 383.32	STA 32+58.68 382.33	-0.40%
STA 32+58.68 382.33	STA 34+60.36 383.33	0.50%
STA 34+60.36 383.33	STA 35+62.92 383.67	0.33%
STA 35+62.92 383.67	STA 38+59.01 384.65	0.33%
STA 38+59.01 384.65	STA 41+50.00 387.56	1.00%

1 / C1 TYPICAL FRENCH DRAIN SECTION

SCALE: 1/2" = 1'-0"



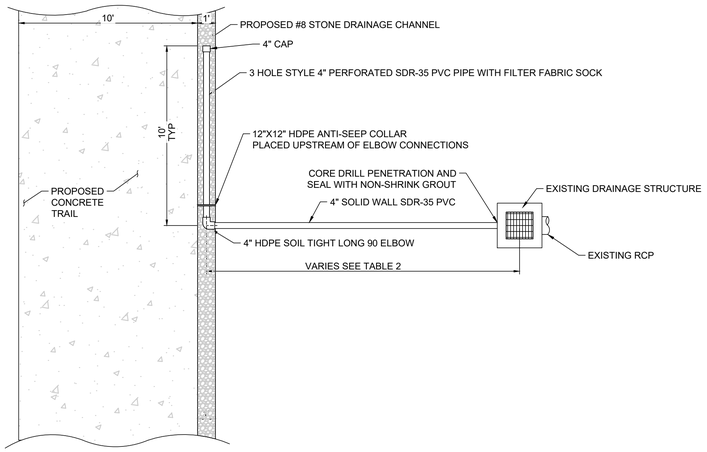
NOTES:
1) REFER TO TYPICAL FRENCH DRAIN CONNECTION DETAIL 3, FOR PLAN VIEW OF FRENCH DRAIN CONNECTIONS TO EXISTING STRUCTURES OF INLINE CHANNEL SLOPE.
2) REFER TO TYPICAL FRENCH DRAIN CONNECTION DETAIL 4, FOR PLAN VIEW OF FRENCH DRAIN CONNECTION OF EXISTING STRUCTURE AT LOW POINT OF CHANNEL.
3) STORM SEWER PIPE SHALL BE SOLID WALL SDR-35 PVC SOIL TIGHT PIPE IN ACCORDANCE WITH ASTM D3034.
4) PERFORATED STORM SEWER PIPE SHALL BE 3-HOLE STYLE SDR-35 PVC PERFORATED PIPE IN ACCORDANCE WITH ASTM D1760.
5) DRAINAGE FILTER SOCK SHALL MEET THE REQUIREMENTS OF ASTM D6707.

TABLE 2: FRENCH DRAIN CONNECTION TO EXISTING STRUCTURES				
STATION	TEE/ELBOW IE	STRUCTURE PENETRATION IE	LENGTH	SLOPE
32+58.68	382.49	380.19	19.05	12.1%
34+60.36	383.50	381.06	22.47	10.9%
35+62.92	383.84	381.94	21.41	8.9%
38+59.01	384.82	381.68	24.25	12.9%

* INVERTS AND PIPE LENGTHS GIVEN TO CENTER OF STRUCTURES

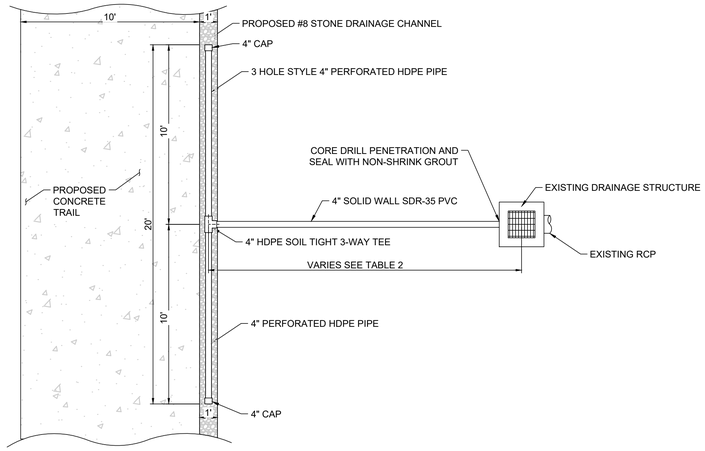
2 / C1 TYPICAL FRENCH DRAIN WITH PERFORATED DRAIN PIPE SECTION

SCALE: 1/2" = 1'-0"



3 / C1 TYPICAL IN-LINE FRENCH DRAIN CONNECTION SECTION

SCALE: 1/4" = 1'-0"



4 / C1 LOW-POINT FRENCH DRAIN CONNECTION SECTION

SCALE: 1/4" = 1'-0"

FILE: L:\Civil 3D 2023\2431BA REA - Next Level Trails Drainage Design\2-DWG\2431BA BASE Survey_REV

1" / 0"

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REVIEWED BY:	LAM

DRAWING:

C-101

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