IRRIGATION LEGEND

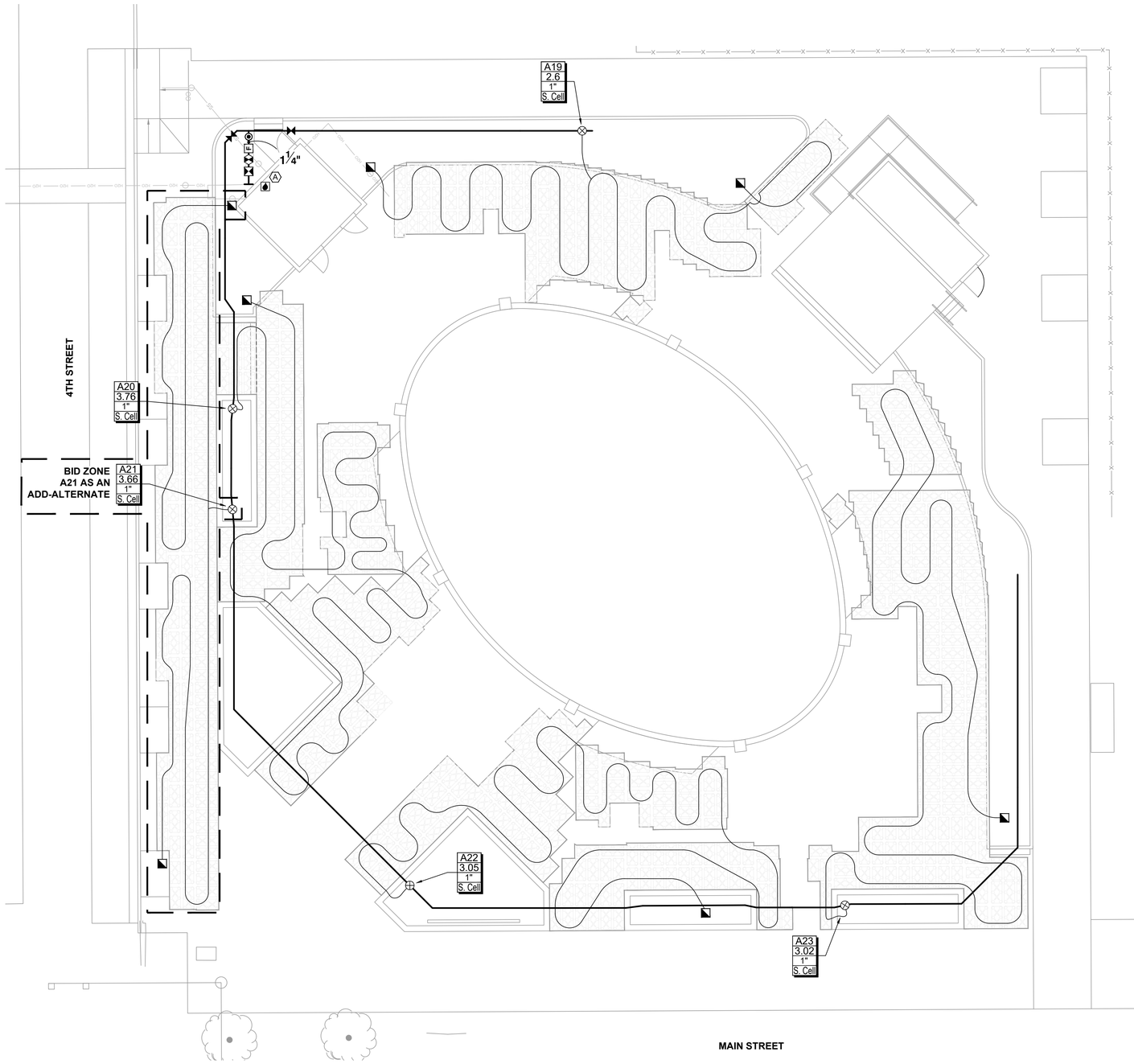
- SLEEVES: **CLASS 200 PVC**
- POINT-OF-CONNECTION ASSEMBLY
- MAINLINE PIPE: **CLASS 200 PVC**
  1 1/4-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO SPRINKLERS: **CLASS 200 PVC**
  1-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO TREE BUBBLERS: **CLASS 200 PVC**
  1-INCH SIZE UNLESS OTHERWISE INDICATED
- SILVA CELL DRIPLINE: **RAIN BIRD XFS-06-12 DRIPLINE IN**
  3" NDS3000 SLOTTED PIPE W/SOCK
- UNCONNECTED PIPE CROSSING
- REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS:
  RAIN BIRD PEB (1")
- REMOTE CONTROL DRIP VALVE: **RAIN BIRD 100-PEB W/ NON PRESSURE-REGULATING**
  BASKET FILTER - QKCHK-100
- QUICK COUPLING VALVE ASSEMBLY: **RAIN BIRD 5RC**
- ISOLATION GATE VALVE ASSEMBLY: **MATCO 514**
- FLOW SENSOR ASSEMBLY: **RAIN BIRD UFS100**
- BACKFLOW PREVENTION ASSEMBLY: **FEBCO 825YA (3/4")**
- MASTER VALVE ASSEMBLY: **RAIN BIRD PEB (1")**
- MANUAL DRIP FLUSH VALVE AND DRIP AIR/VACUUM RELIEF VALVE
  NETAFIM TLSOV & NETAFIM TLARV IN 10" ROUND VALVE BOX

A1 / 14 / 1" / Turf
- INDICATES CONTROLLER AND STATION NUMBER
- INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE SIZE (INCHES)
- INDICATES LANDSCAPE APPLICATION

- (A) IRRIGATION CONTROLLER UNIT
  WITH **WIRELESS RAIN SENSOR**
  RAIN BIRD ESPLXME2P PLASTIC CABINET
- WEATHER SENSOR: **RAIN BIRD WR2-48 WIRELESS RAIN SENSOR**
- TREE BUBBLER ASSEMBLY: **TWO (2) RAIN BIRD 1402 BUBBLERS**
  PRESSURE: **30 PSI**
  FLOW (GPM): **0.50 PER BUBBLER; 1.00 PER ASSEMBLY**
- POP-UP SPRAY SPRINKLER: **RAIN BIRD 1812-SAM-PRS W/HE-VAN NOZZLE**
  PRESSURE: **30 PSI** RADIUS: **VARIES**
  FLOW (GPM): **HEVAN08-1.17 HEVAN10-1.78 HEVAN12-2.37 HEVAN15-3.70**
- POP-UP SPRAY SPRINKLER: **RAIN BIRD 1812-SAM-PRS W/VAN NOZZLE**
  PRESSURE: **30 PSI** RADIUS: **VARIES**
  FLOW (GPM): **4-VAN - 0.88 6-VAN - 1.20**

CONSTRUCTION NOTES

1. **THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE DOWNSTREAM OF THE IRRIGATION WATER TAP AND METER INSTALLED BY OTHERS AT THE APPROXIMATE LOCATION SHOWN. INSTALL BACKFLOW PREVENTION UNIT AND MASTER VALVE ASSEMBLY AS INDICATED. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE.**
2. **WALL MOUNT THE IRRIGATION CONTROLLER AT THE APPROXIMATE LOCATION SHOWN. COORDINATE ELECTRICAL POWER TO THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE. CARE SHOULD BE TAKEN TO INSTALL THE IRRIGATION CONTROLLER IN A LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.**



NORTH

0' 5' 10' 20'
SCALE: 1" = 10'

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Bid Documents
September 2025

Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:
JZ	JZ	MT

Sheet title:

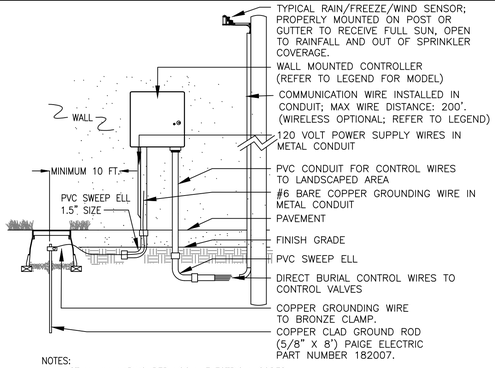
IRRIGATION PLAN - SOIL CELLS

Architect's Project No: 2024-183

Date: September 2025

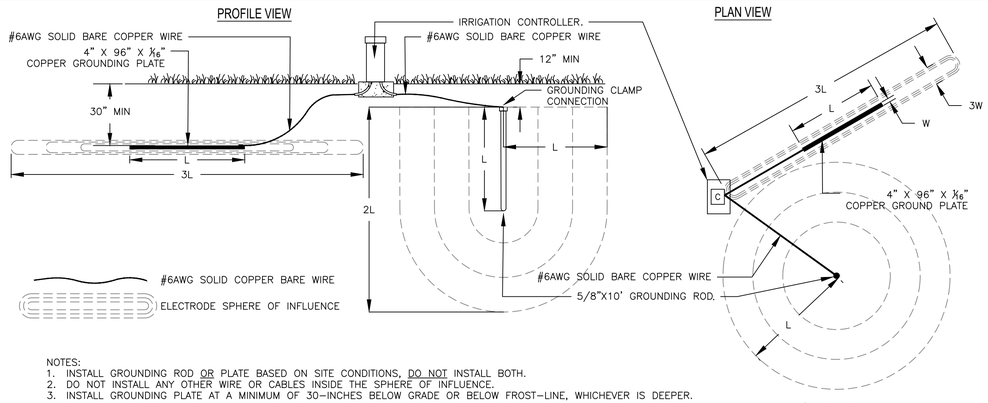
Drawing No:

LA803



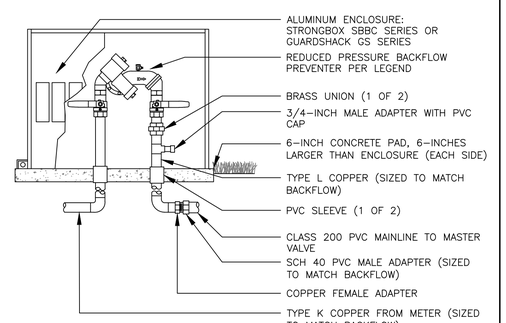
NOTES:
1. INSTALL ALL WIRING PER LOCAL ELECTRICAL CODES.
2. INSTALL GROUND ROD WITHIN IRRIGATED TURF AREA. IF IRRIGATED TURF AREA IS NOT IN CLOSE PROXIMITY TO CONTROLLER, INSTALL ONE (1) DRIP EMITTER FROM NEAREST DRIP VALVE IN VALVE BOX HOUSING GROUNDING ROD.

1 WALL MOUNT CONTROLLER ASSEMBLY



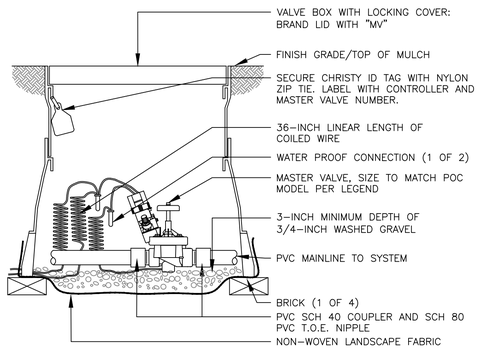
NOTES:
1. INSTALL GROUNDING ROD OR PLATE BASED ON SITE CONDITIONS, DO NOT INSTALL BOTH.
2. DO NOT INSTALL ANY OTHER WIRE OR CABLES INSIDE THE SPHERE OF INFLUENCE.
3. INSTALL GROUNDING PLATE AT A MINIMUM OF 30-INCHES BELOW GRADE OR BELOW FROST-LINE, WHICHEVER IS DEEPER.
4. TYPICAL INSTALLATION SHOWN FOR AN IRRIGATION CONTROLLER CAPACITY OF 64 STATIONS OR LESS, INSTALL AN ADDITIONAL GROUNDING ROD/PLATE PER 64 STATIONS.

2 TYPICAL IRRIGATION CONTROLLER GROUNDING ROD OR PLATE INSTALLATION

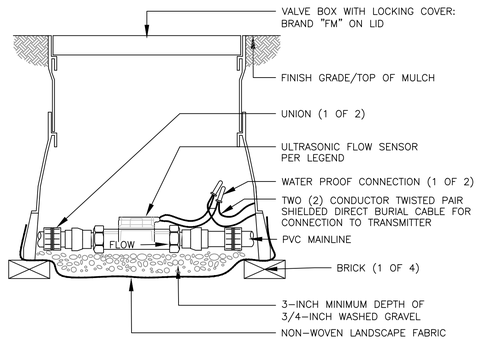


NOTES:
1. INSTALL BACKFLOW DEVICE IN ACCORDANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS.
2. SLOPE TOP SURFACE OF PAD AT 0.5 % WITH BROOM FINISH.
3. MAKE PIPE SLEEVES WITH 1-1/2 INCH LARGER DIAMETER PIPE THAN PENETRATING PIPE SIZE.
4. ALL HINGED CONNECTION LOCATIONS AND HARDWARE TO BE TAMPER PROOF.
5. ALL WELD JOINTS SHALL BE CONTINUOUS AND GROUND SMOOTH.

3 BACKFLOW PREVENTION UNIT ASSEMBLY

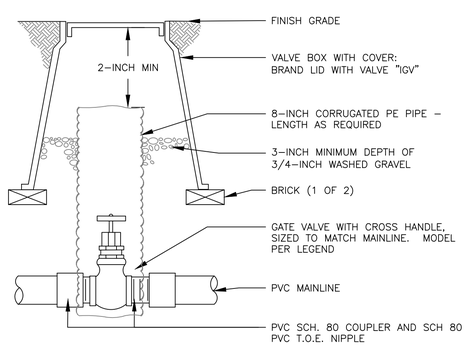


4 MASTER VALVE ASSEMBLY



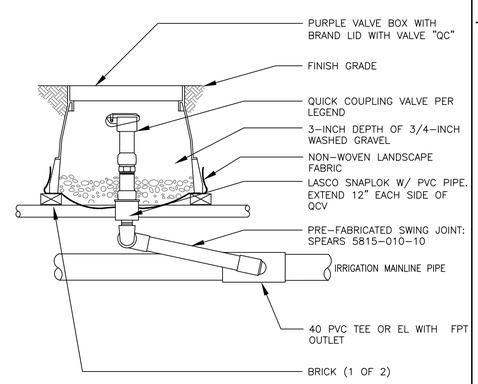
NOTES:
1. TYPICAL ULTRASONIC FLOW SENSORS DO NOT REQUIRE THE DISTANCES (5X AFTER / 10X BEFORE) OF TYPICAL FLOW SENSORS. VERIFY SPECIFIED FLOW SENSOR DISTANCE REQUIREMENTS, PRIOR TO INSTALLATION.

5 ULTRASONIC FLOW SENSOR ASSEMBLY

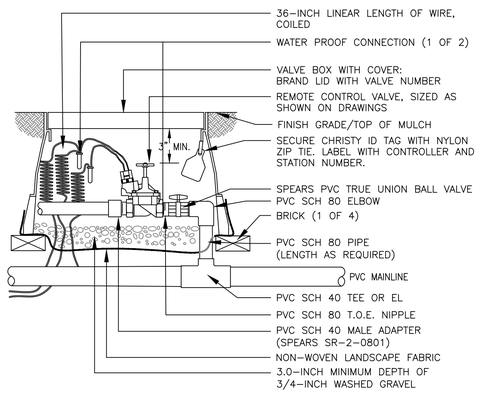


NOTES:
1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.

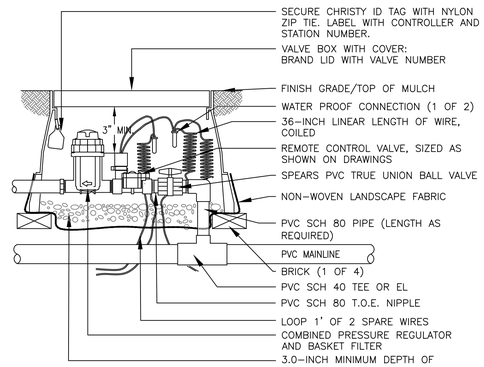
6 ISOLATION GATE VALVE ASSEMBLY 1.5-INCH MAINLINE AND SMALLER



7 QUICK COUPLING VALVE ASSEMBLY

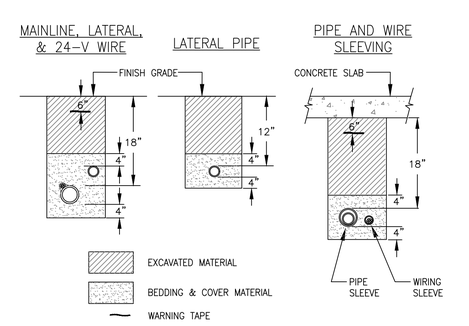


8 REMOTE CONTROL SPRINKLER VALVE ASSEMBLY



NOTE:
1. USE BARBED INSERT FITTINGS ON DRIP LATERAL PIPE WITH STAINLESS STEEL HOSE CLAMPS. PLACE CLAMPS ON DRIP TUBING DIRECTLY OVER BARBED AREA OF FITTING. PINCH CLAMPS ARE NOT ACCEPTABLE.

9 REMOTE CONTROL DRIP VALVE ASSEMBLY



NOTES:
1. SLEEVE ALL PIPE AND WIRE SEPARATELY.
2. ALL PIPE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS."SNAKE" UNSLEEVED PLASTIC PIPE IN TRENCH. PROVIDE A MINIMUM OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
3. ALL 120-V WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. TAPE AND BUNDLE 24-V WIRE EVERY 10' AND PROVIDE LOOSE 20" LOOP AT ALL CHANGES OF DIRECTION OVER 30 DEGREES.

10 TYPICAL TRENCHING DETAIL

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September 2025

Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:
JZ	JZ	MT

Sheet title:

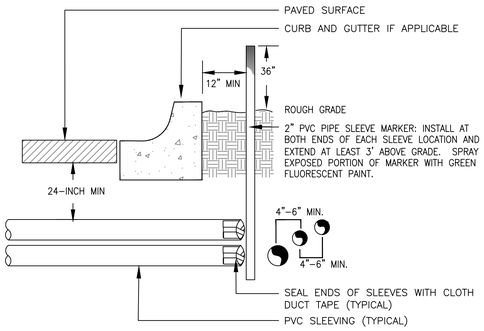
IRRIGATION DETAILS

Architect's Project No: 2024-183
Date: September 2025

Drawing No:

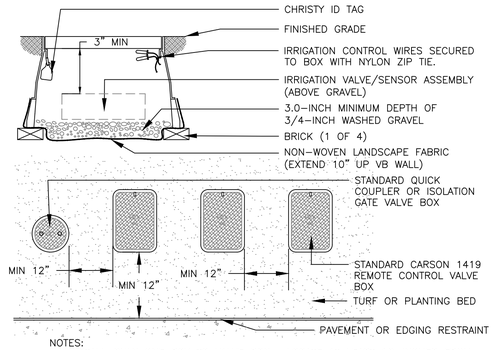
LA804

V20



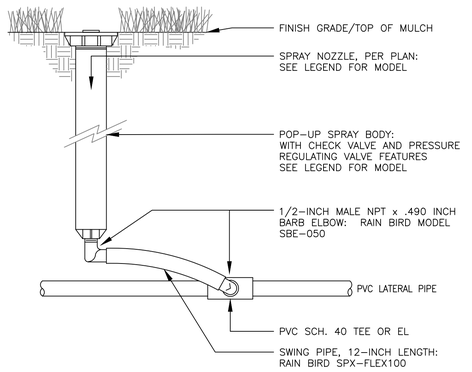
NOTE:
1) ALL SLEEVING TO BE CLASS 200 BE PVC, SIZED AS NOTED.
2) INSTALL SLEEVES IN SIDE-BY-SIDE CONFIGURATION WHERE MULTIPLE SLEEVES ARE TO BE INSTALLED. SPACE SLEEVES 4" TO 6" APART. DO NOT STACK SLEEVES VERTICALLY.

11 TYPICAL SLEEVING DETAIL

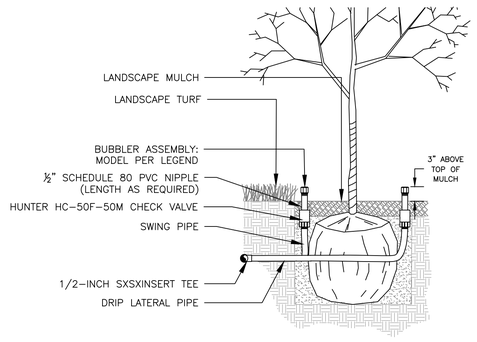


NOTES:
1. INSTALL ONLY ONE RCV TO VALVE BOX. LOCATE AT LEAST 12-INCHES FROM AND ALIGN WITH NEARBY WALLS OR EDGES OF PAVED AREAS. GROUP RCV ASSEMBLIES TOGETHER WHERE PRACTICAL.
4. GROUP RCV ASSEMBLIES TOGETHER WHERE PRACTICAL, BUT AVOID GROUPING MORE THAN THREE (3) STANDARD VALVE BOXES TOGETHER IN A SERIES.
5. ARRANGE GROUPED VALVE BOXES IN RECTANGULAR PATTERNS.

12 TYPICAL VALVE BOX INSTALLATION

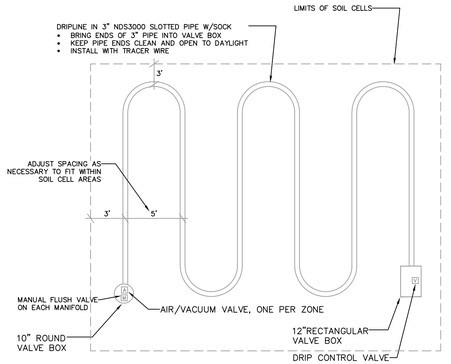


13 12-INCH POP UP SPRAY SPRINKLER ASSEMBLY



NOTES:
1. REFER TO LANDSCAPE PLANS FOR TREE GRATE INSTALLATION AND DETAILS.

14 BUBBLER ASSEMBLY FOR TREES IN SHRUB BEDS



15 DRIPLINE IRRIGATION IN SOIL CELLS

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September 2025

Revisions:

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Designed By:	Drawn By:	Checked By:
JZ	JZ	MT

Sheet title:

IRRIGATION DETAILS

Architect's Project No: 2024-183
Date: September 2025

Drawing No:

LA805

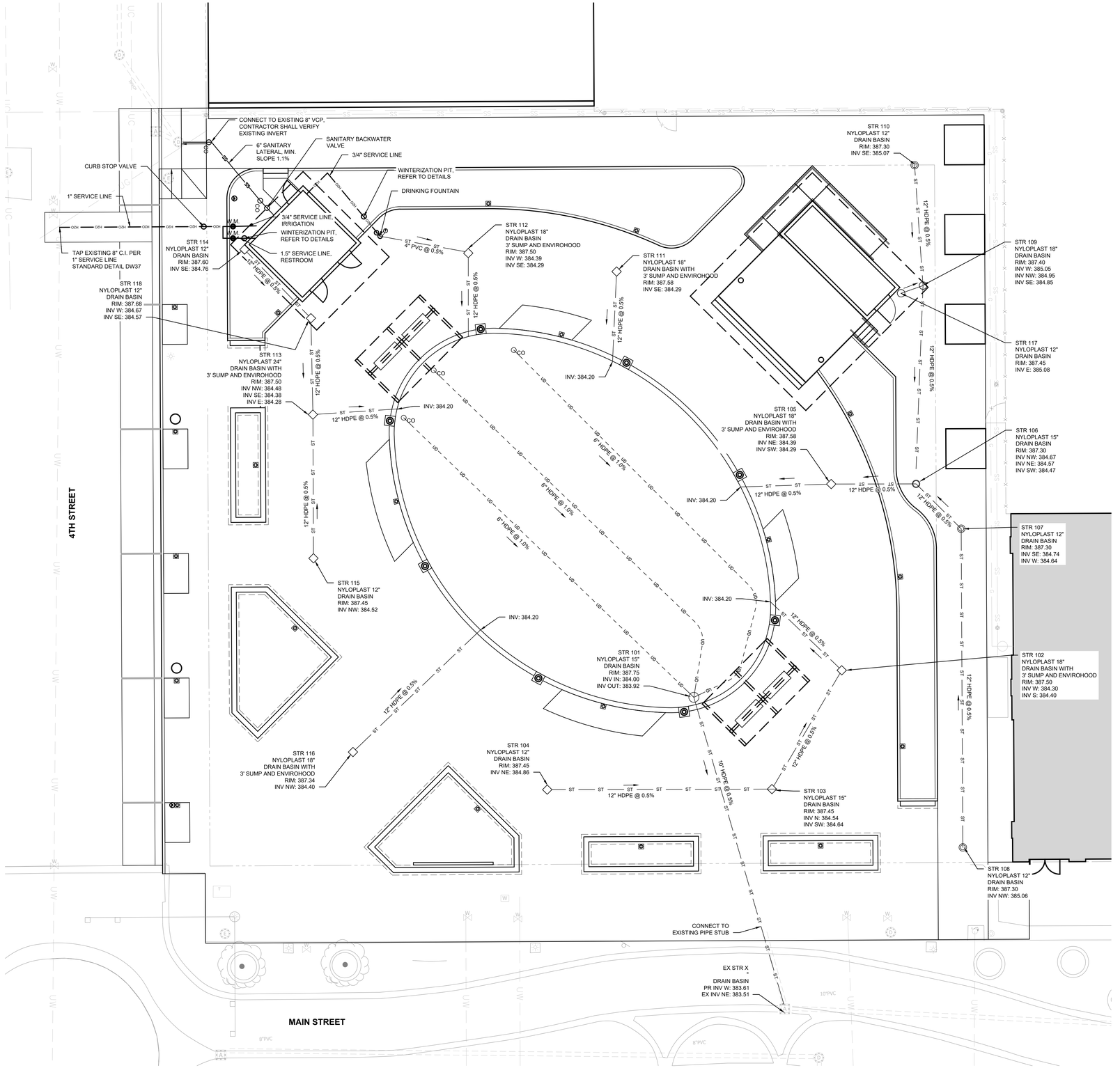
V20

GENERAL UTILITY NOTES:

1. THE UTILITIES SHOWN HEREIN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND RECORD DRAWINGS. THE ENGINEER MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE ENGINEER 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 THE INFORMATION AVAILABLE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARING CONSTRUCTION.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE WITH LOCAL AND PRIVATE UTILITIES FOR NECESSARY UTILITY RELOCATIONS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN QUALITY CONTROL THROUGHOUT THE PROJECT. FAILURE TO DO SO MAY RESULT IN REMOVAL AND REPLACEMENT OF THE DEFECTIVE WORK.
6. IT IS ESSENTIAL THAT THE WORK TO BE DONE IN CONJUNCTION WITH THIS PROJECT SHALL BE INSTALLED ACCORDING TO THESE SPECIFICATIONS. IT IS NECESSARY TO OBTAIN APPROVAL AND ACCEPTANCE BY THE CITY THAT CONSTRUCTION WAS DONE IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS.
7. ALL QUANTITIES GIVEN ON THE PRINTS, VERBALLY, OR IN THE SCOPE OF WORK SECTION ARE ESTIMATES AND SHALL BE CONFIRMED BY THE BIDDING CONTRACTOR.
8. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATION, FINAL RULE 29 CFR, PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
9. ACTUAL FIELD LOCATIONS OF ALL THE EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE LOCATED EITHER BY THE REPRESENTATIVE OF THE LOCAL UTILITY COMPANY OR BY A PRIVATE UNDERGROUND UTILITY LOCATION COMPANY PRIOR TO THE START OF EXCAVATING. VERIFY MINIMUM COVER REQUIREMENTS BY THE UTILITY CONTRACTOR OR CONTRACTORS, OR AGENCIES, WHICHEVER UTILITY COMPANY OR AGENCIES, THAT HAS JURISDICTION, SO NOT TO CAUSE DAMAGE.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL THE UTILITY COMPANIES AND DEPARTMENTS 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY ANY UTILITIES THAT MAY BE PRESENT ON THE SITE. ALL VERIFICATIONS, LOCATIONS, SIZES, AND DEPTHS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES OR DEPARTMENTS. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THE UTILITY COMPANY CAN BE PRESENT DURING THE EXCAVATION TO INSTRUCT AND OBSERVE DURING THE EXCAVATION.
11. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER-TO-CENTER OF STRUCTURES ROUNDED TO THE NEAREST FOOT.
12. WHERE GRADE MODIFICATIONS (CUT OR FILL) ARE SHOWN ADJACENT TO EXISTING VALVE BOX COVERS AND MANHOLE CASTINGS, THE VALVE BOX COVERS AND MANHOLE CASTINGS SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.
13. PAVEMENTS, WALKS, CURBS, AND OTHER SURFACE IMPROVEMENTS REQUIRING REMOVAL FOR INSTALLATION OF UNDERGROUND UTILITIES SHALL BE RESTORED TO THEIR PRESENT CONDITIONS UNLESS OTHERWISE SHOWN.
14. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, STRUCTURES, AND FACILITIES WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANY, AND/OR GOVERNING AUTHORITY. THE CONTRACTOR SHALL INSTALL AS NECESSARY TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDINGS INDICATED TO REMAIN OPEN.
15. THE CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETCETERA AS REQUIRED FOR PIPE CONNECTIONS TO FACILITY STUB OUTS.
16. CAP STUBS AND PROVIDE FIELD MARKERS.
17. SANITARY BACKWATER VALVE SHALL BE RECTORSEAL 97026 CLEAN CHECK 6" PVE EXTENDABLE BACKWATER VALVE OR APPROVED EQUAL.
18. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH EVANSVILLE WATER AND SEWER UTILITY (EWSU) STANDARD DETAILS AND CHAPTER 13.04 OF THE VANDERBURGH COUNTY DRAINAGE ORDINANCE. DISCREPANCIES BETWEEN THE PLANS AND EWSU STANDARD DETAILS OR THE VANDERBURGH COUNTY ORDINANCE SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE STANDARD DETAILS AND ORDINANCE.

CIVIL PLAN SYMBOLS AND ABBREVIATIONS:

BC	BOTTOM OF CURB	MEG	MATCH EXISTING GRADE
TC	TOP OF CURB	RIM	RIM ELEVATION
EX	EXISTING	FFE	FINISH FLOOR ELEVATION
PR	PROPOSED		
H2O	WATER LINE	ST	STORM SEWER
SAN	SANITARY SEWER	UGE	UNDERGROUND ELECTRIC
UD	UNDERDRAIN	OHW	OVERHEAD WIRE
UT	UNDERGROUND COMMUNICATION LINE	GAS	GAS LINE
(724.50)	EXISTING SPOT ELEVATION (VERIFY)	781	EXISTING CONTOUR LINE
781.80	PROPOSED SPOT ELEVATION	781	PROPOSED CONTOUR LINE
1.0%	PROPOSED SLOPE	GB	GRADE BREAK
WM	WATER METER	ST	ABANDON STORM LINE
W.V.	WATER VALVE	ST	STORM STRUCTURE
CO	CLEANOUT		AREA DRAIN, INLET
SA	SANITARY MANHOLE		



NORTH

0' 5' 10' 20'
SCALE: 1" = 10'

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Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:
LW/PA	LW/TJ	PA

Sheet title:

SITE UTILITIES PLAN

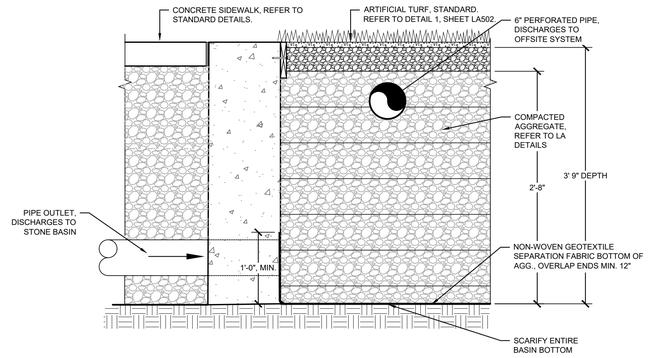
Architect's Project No: 2024-183

Date: September 2025

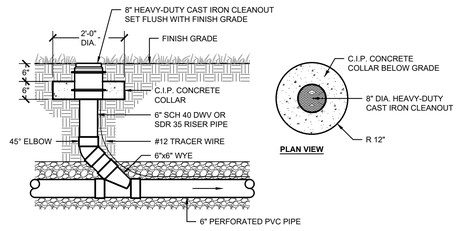
Drawing No:

U101

220

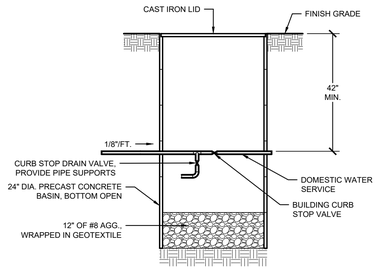


1 ARTIFICIAL TURF DETENTION AND DRAINAGE DETAIL
SCALE: 1" - 1'-0"

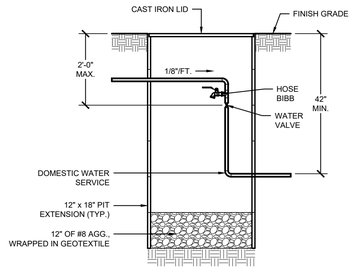


CLEANOUT IS REQUIRED AT EACH BEND THAT IS GREATER THAN 45-DEGREES.

2 SINGLE CLEANOUT, PERFORATED PIPE
SCALE: 1/2" = 1'-0"

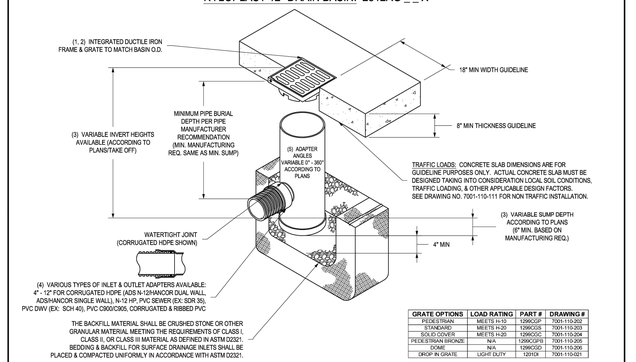


3 MAIN WATER SUPPLY WINTERIZATION PIT DETAIL
NOT TO SCALE



4 DRINKING FOUNTAIN WINTERIZATION PIT DETAIL
NOT TO SCALE

NYLOPLAST 12" DRAIN BASIN: 2812AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1296CGP	7001-110-202
STANDARD	MEETS H-20	1296CGS	7001-110-203
SOLID COVER	MEETS H-20	1296CGC	7001-110-204
PEDESTRIAN BRONZE	N/A	1296CGPB	7001-110-205
DOME	N/A	1296CGD	7001-110-206
DROP IN GRATE	LIGHT DUTY	1201DI	7001-110-021

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-095
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

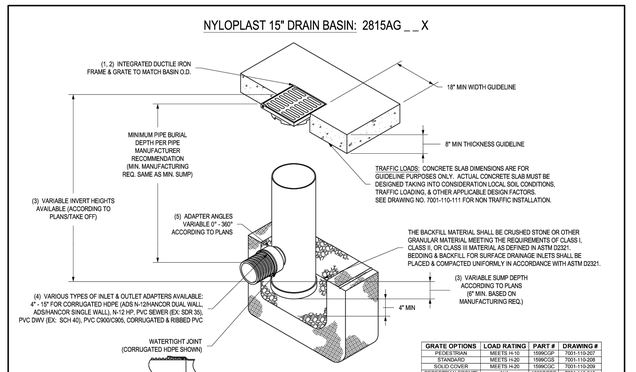
DRAWN BY	EBC	MATERIAL	
DATE	03-26-08		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-11-15		
DWG SIZE	A	SCALE 1:20	SHEET 1 OF 1

ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-3496 www.nyloplast-us.com

TITLE: 12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-109 REV E

NYLOPLAST 15" DRAIN BASIN: 2815AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1596CGP	7001-110-207
STANDARD	MEETS H-20	1596CGS	7001-110-208
SOLID COVER	MEETS H-20	1596CGC	7001-110-209
PEDESTRIAN BRONZE	N/A	1596CGPB	7001-110-210
DOME	N/A	1596CGD	7001-110-211
DROP IN GRATE	LIGHT DUTY	1501DI	7001-110-073

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-095
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12HANCOR DUAL WALL), N-12 HP, & PVC SEWER (8"-18").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

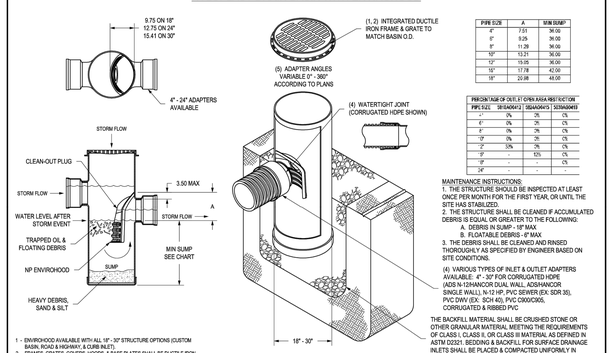
DRAWN BY	EBC	MATERIAL	
DATE	03-30-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE 1:25	SHEET 1 OF 1

ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-3496 www.nyloplast-us.com

TITLE: 15 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-100 REV E

NYLOPLAST DRAIN BASIN WITH ENVIROHOOD



PIPE SIZE	A	MIN SUMP
4"	7.51	36.00
6"	9.25	36.00
8"	11.28	36.00
10"	13.21	36.00
12"	15.05	36.00
15"	17.78	42.00
18"	20.98	48.00

PIPE SIZE	PERCENTAGE OF OUTLET OPEN AREA REDUCTION		
	30%(ADS#12)	50%(ADS#13)	70%(ADS#15)
4"	0%	0%	0%
6"	0%	0%	0%
8"	0%	0%	0%
10"	0%	0%	0%
12"	30%	0%	0%
15"	-	12%	0%
18"	-	-	0%
24"	-	-	-

MAINTENANCE INSTRUCTIONS:
1. THE STRUCTURE SHOULD BE INSPECTED AT LEAST ONCE PER MONTH FOR THE FIRST YEAR, OR UNTIL THE SITE HAS STABILIZED.
2. THE STRUCTURE SHALL BE CLEANED IF ACCUMULATED DEBRIS IS EQUAL OR GREATER TO THE FOLLOWING:
A. DEBRIS IN SUMP - 18" MAX.
B. FLOATABLE DEBRIS - 6" MAX.
3. THE DEBRIS SHALL BE CLEANED AND RINSED THOROUGHLY AS SPECIFIED BY ENGINEER BASED ON SITE CONDITIONS.

(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 30" FOR CORRUGATED HDPE (ADS N-12HANCOR DUAL WALL, ADSHANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

1 - ENVIROHOOD AVAILABLE WITH ALL 18" - 30" STRUCTURE OPTIONS (CUSTOM BASIN, ROAD & HIGHWAY, & CURB INLET).
2 - FRAMES, GRATES, COVERS, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-095
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12HANCOR DUAL WALL), N-12 HP, & PVC SEWER (8"-18").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7004-110-111.

DRAWN BY	JJC	MATERIAL	
DATE	11-11-13		
APPD BY	JJC		
DATE	11-11-13		
REV BY	NMH	PROJECT NO./NAME	
DATE	03-13-16		
APPD BY	NMH		
DATE	03-13-16		
DWG SIZE	A	SCALE 1:30	SHEET 1 OF 1

ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-3496 www.nyloplast-us.com

TITLE: DRAIN BASIN WITH ENVIROHOOD QUICK SPEC INSTALLATION DETAIL

DWG NO. 7004-110-100 REV D

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PATRICK R. DIERKES REGISTERED No. PE 11900841 STATE OF INDIANA PROFESSIONAL ENGINEER

Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:
LW/PA	LW/TJ	PA

Sheet title:

SITE UTILITY DETAILS

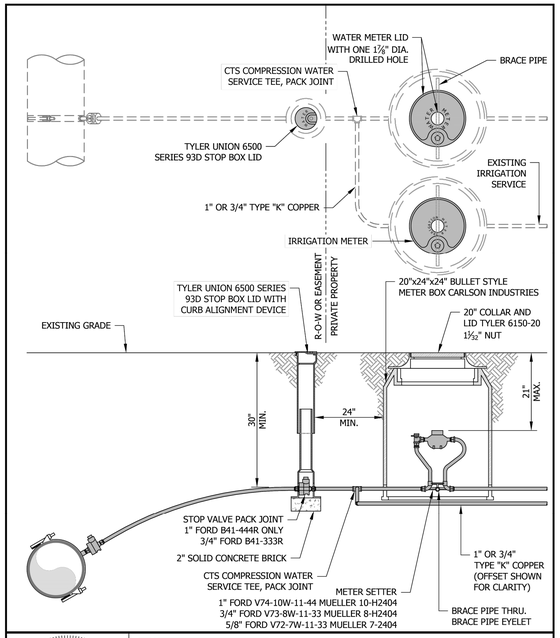
Architect's Project No: 2024-183

Date: September 2025

Drawing No:

U201

V20

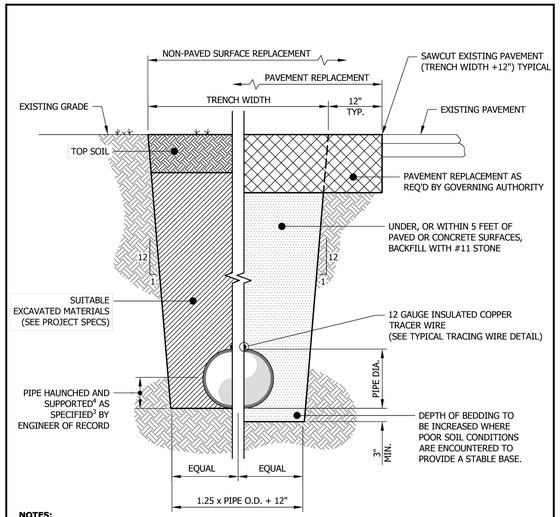


JOSEPH D. SLOAN REGISTERED No. PE10606117 STATE OF INDIANA PROFESSIONAL ENGINEER

Evansville WATER AND SEWER UTILITY

3/4" OR 1" IRRIGATION SPLIT SERVICE CONNECTION

Approved: 01/12/2022	Adopted: 01/18/2022	Figure	DW37
Approved By: Joseph D. Sloan, P.E.	Scale: N.T.S.		



NOTES:

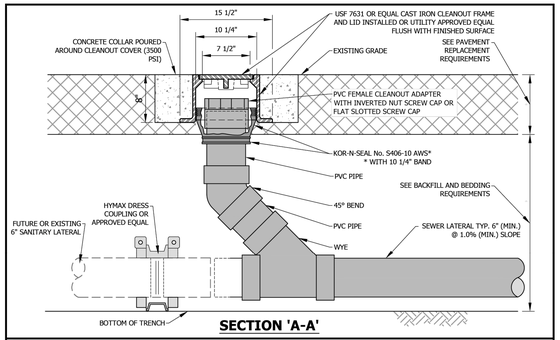
1. 4" TO 16" C900 OR DUCTILE IRON PIPE.
2. SEE PLAN AND PROFILE FOR DEPTH OF COVER. MAINTAIN 48" MINIMUM.
3. MATERIALS SHALL EXCLUDE ORGANICS AS DEFINED BY ASTM D2321, CLASS V.
4. PIPE TO BE SUPPORTED ALONG THE ENTIRE LENGTH BY A FIRM TRENCH BOTTOM OR BEDDING.

JOSEPH D. SLOAN REGISTERED No. PE10606117 STATE OF INDIANA PROFESSIONAL ENGINEER

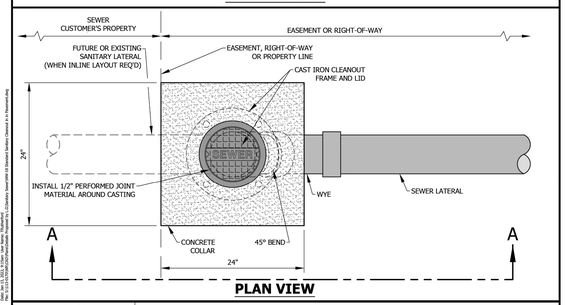
Evansville WATER AND SEWER UTILITY

TYPICAL WATER MAIN TRENCH

Approved: 01/12/2022	Adopted: 01/18/2022	Figure	DW01
Approved By: Joseph D. Sloan, P.E.	Scale: N.T.S.		



SECTION 'A-A'



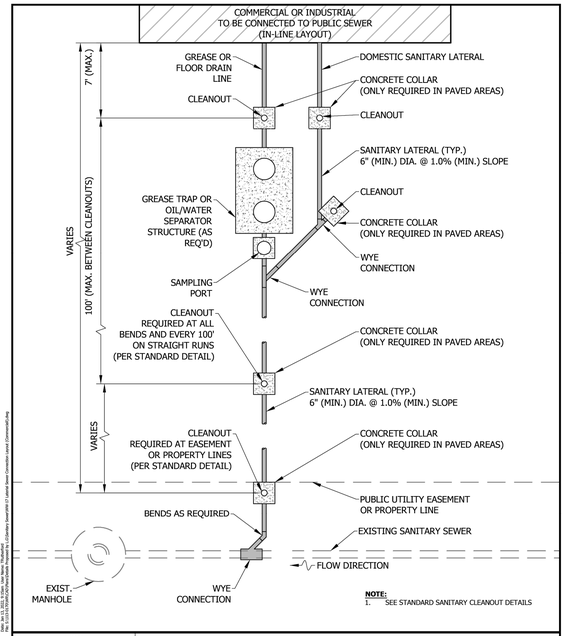
PLAN VIEW

JOSEPH D. SLOAN REGISTERED No. PE10606117 STATE OF INDIANA PROFESSIONAL ENGINEER

Evansville WATER AND SEWER UTILITY

STANDARD SANITARY CLEANOUT IN PAVED AREAS

Approved: 01/12/2022	Adopted: 01/18/2022	Figure	WW-23
Approved By: Joseph D. Sloan, P.E.	Scale: N.T.S.		



NOTE:
1. SEE STANDARD SANITARY CLEANOUT DETAILS

JOSEPH D. SLOAN REGISTERED No. PE10606117 STATE OF INDIANA PROFESSIONAL ENGINEER

Evansville WATER AND SEWER UTILITY

LATERAL SEWER CONNECTION LAYOUT (COMMERCIAL)

Approved: 01/12/2022	Adopted: 01/18/2022	Figure	WW-22
Approved By: Joseph D. Sloan, P.E.	Scale: N.T.S.		

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PATRICK R. DIERKES REGISTERED No. (PE 11900841) STATE OF INDIANA PROFESSIONAL ENGINEER

Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:
LW/PA	LW/TJ	PA

Sheet title:

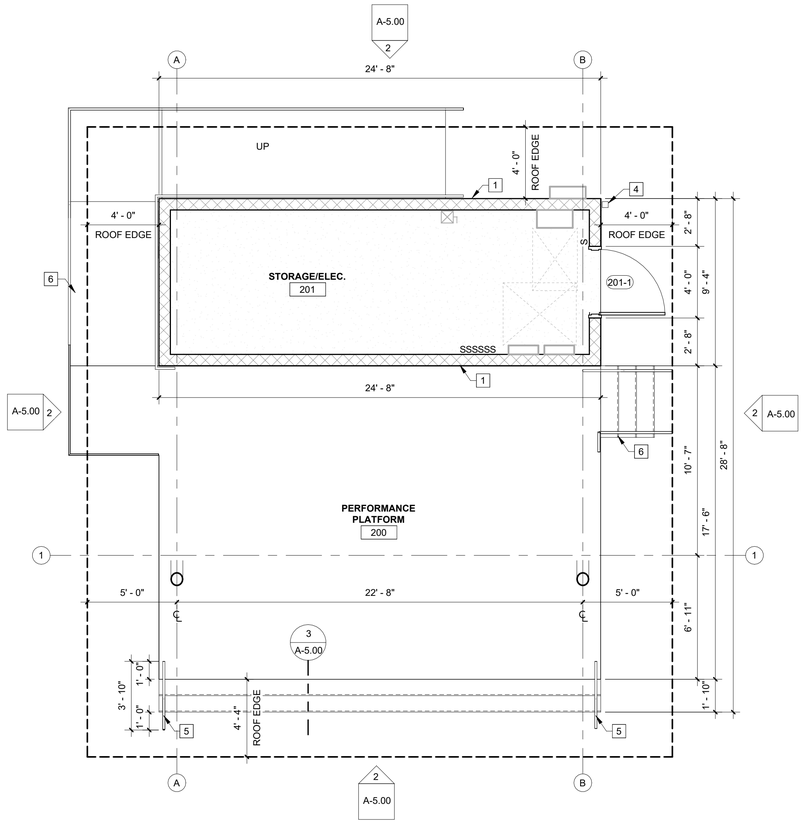
SITE UTILITY DETAILS

Architect's Project No: 2024-183

Date: September 2025

Drawing No:

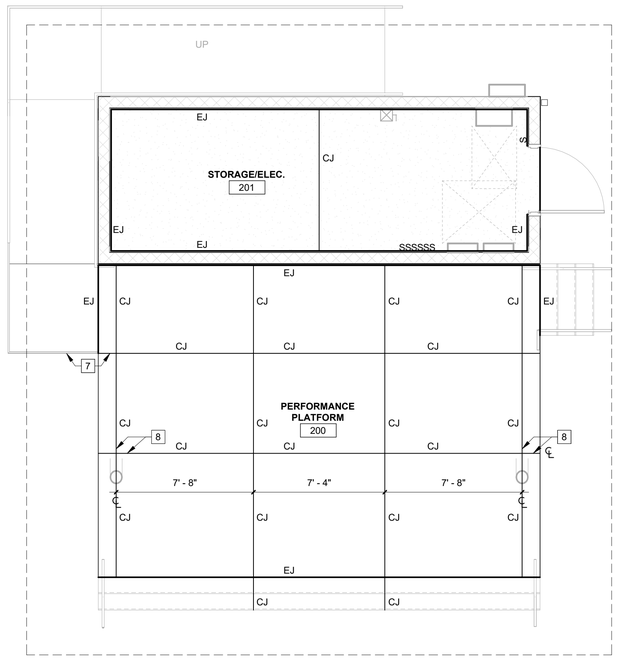
U202



PERFORMANCE PLATFORM BUILDING FLOOR PLAN

1/4" = 1'-0"

0' 1' 2' 4'



PERFORMANCE PLATFORM CONTROL JOINT LAYOUT

1/4" = 1'-0"

0' 1' 2' 4'

DOOR SCHEDULE

Door Number	Door Data							Frame Data					Hardware Set	Comments	Door Number
	Fire Rating	Door Type	Material	Width	Height	Thickness	Louver	Type	Material	Depth	Head	Jamb			
100-1	-	FL	GALV. STL.	3' - 0"	7' - 0"	1 3/4"	16" x 18"	F1	GALV. STL.	5 3/4"	1/A-1.00	2/A-1.00	01	-	100-1
101-1	-	FL	GALV. STL.	3' - 0"	7' - 0"	1 3/4"	16" x 18"	F1	GALV. STL.	5 3/4"	1/A-1.00	2/A-1.00	01	-	101-1
102-1	-	F	GALV. STL.	3' - 0"	7' - 0"	1 3/4"	-	F1	GALV. STL.	5 3/4"	1/A-1.00	2/A-1.00	02	-	102-1
201-1	-	F	GALV. STL.	3' - 8"	7' - 0"	1 3/4"	-	F1	GALV. STL.	5 3/4"	1/A-1.00	2/A-1.00	03	-	201-1

SEE SCHEDULE

4"

2" 2"

SEE SCHEDULE

F1

SEE SCHEDULE

SEE SCHEDULE

F

FLUSH PANEL

SEE SCHEDULE

SEE SCHEDULE

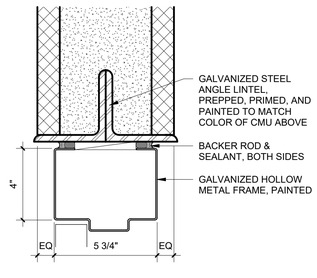
8"

EQ. EQ.

FL

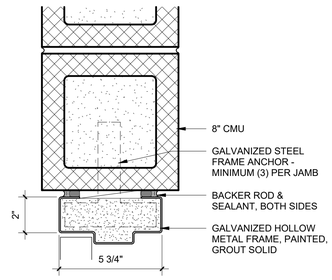
FLUSH W/ LOUVER

18" x 12" VANDAL-RESISTANT METAL LOUVER WITH ALUMINUM INSECT SCREEN, TAMPER-PROOF TORX SECURITY SCREWS, POWDER COATED COLOR AS APPROVED BY ARCHITECT, WITH 1" THICK INSULATION BLANK-OFF PANEL. BASIS OF DESIGN PRODUCT: NGP-L-VRSG-3 FOR 1 3/4" THICK DOORS.



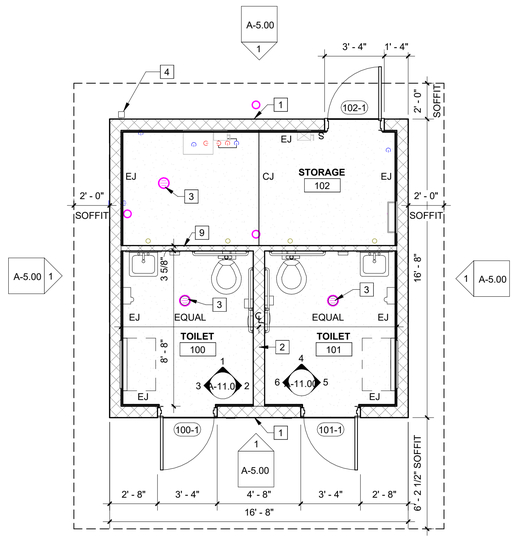
1 HEAD DETAIL

3" = 1'-0"



2 JAMB DETAIL

3" = 1'-0"



RESTROOM BUILDING FLOOR PLAN

1/4" = 1'-0"

0' 1' 2' 4'

North

GENERAL FLOOR PLAN NOTES:

1. SEE LA401 DRAWINGS FOR CONCRETE SLAB ELEVATIONS.
2. ALL DIMENSIONS ON FLOOR PLANS ARE FROM FACE OF MASONRY, FACE OF CONCRETE OR CENTERLINE OF COLUMNS UNLESS NOTED OTHERWISE.
3. FOR INTERIOR FINISHES REFER TO THE ROOM FINISH SCHEDULE ON SHEET **A-11.00**.
4. CONTRACTOR SHALL CAULK DOOR FRAME FROM FLOOR CONTINUOUSLY AT THE PERIMETER OF DOOR AND WINDOW FRAMES.
5. CONSTRUCTION AND INSTALLATIONS SHALL CONFORM TO ALL FEDERAL, STATE LOCAL ORDINANCES, CODES, ETC.
6. ALL HOLLOW METAL FRAMES TO BE PAINTED - COLOR TO MATCH HOLLOW METAL DOORS AND IS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
7. ALL GRADES SHOWN IN SECTION(S) ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY AND COORDINATE GRADES WITH CIVIL DRAWINGS.
8. CONTRACTOR SHALL CAULK ALL DISSIMILAR MATERIALS (ie. DRYWALL, CMU.
9. COORDINATE ALL EXTERIOR WALKWAYS WITH CIVIL/LANDSCAPE ARCHITECTURE DRAWINGS. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE FOUND.
10. OUTSIDE EDGE OF DOOR FRAME JAMBS TYPICALLY LOCATED 8" FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

FLOOR PLAN REFERENCE NOTES:

1. GROUND FACE FINISH 8" x 8" x 8" (NOM.) SINGLE-WYTHE EXTERIOR CMU.
2. SMOOTH FACE FINISH 8" x 8" x 8" (NOM.) INTERIOR PARTITION CMU.
3. FLOOR DRAIN. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
4. PRE-FINISHED METAL DOWNSPOUT CONNECTED TO UNDERGROUND STORM DRAINAGE.
5. HANDRAIL. SEE DETAIL 4/LA503 FOR PROFILE, FINISH, ETC. REFER TO PLAN FOR HANDRAIL RUN DIMENSIONS.
6. SEE CIVIL/LANDSCAPE ARCHITECTURE DRAWINGS FOR STAIR/RAMP INFORMATION AND DETAILS.
7. ALIGN CONTROL JOINT WITH EDGE OF RAMP.
8. CENTER CONTROL JOINT ON COLUMN WHERE IT MEETS THE CONCRETE.
9. SMOOTH FACE FINISH 4" x 8" x 8" (NOM.) INTERIOR PARTITION CMU.

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Revisions:

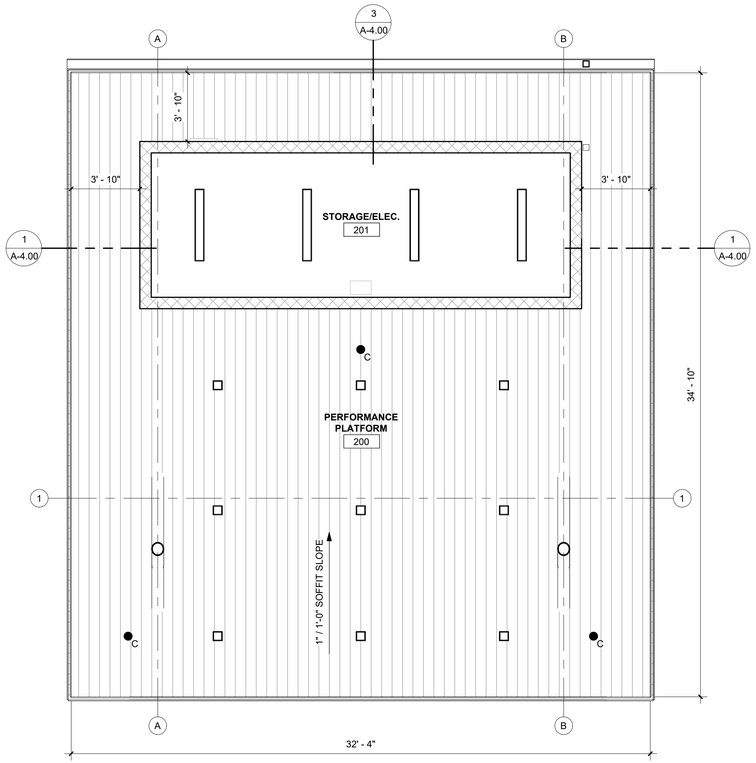
#	Description	Date

Designed By: | Drawn By: | Checked By:

Sheet title:
FLOOR PLANS, DOOR SCHEDULE, AND DOOR DETAILS

Architect's Project No: Date:
PROJECT NO. DATE:
2404-183 SEPTEMBER, 2025

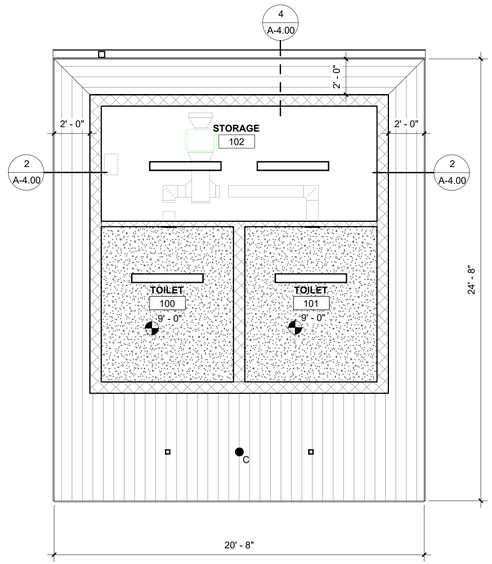
Drawing No:
A-1.00



PERFORMANCE PLATFORM BUILDING REFLECTED CEILING PLAN

1/4" = 1'-0"

0' 1' 2' 4'



RESTROOM BUILDING REFLECTED CEILING PLAN

1/4" = 1'-0"

0' 1' 2' 4'

North

GENERAL RCP NOTES:

1. CEILING HEIGHTS ARE NOTED FROM THEIR RESPECTIVE FLOOR ELEVATIONS.
2. ALL TRADES SHALL PARTICIPATE IN A COORDINATION MEETING PRIOR TO ANY INSTALLATION OF ABOVE CEILING SYSTEMS, SERVICES, ETC. DURING THE SHOP DRAWING PHASE.
3. THE REFLECTED CEILING PLANS DO NOT INDICATE THE LIGHTING LAYOUT IN AREAS WITHOUT CEILING FINISHES. REFER TO THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. ALL NEW GYPSUM BOARD CONSTRUCTION TO BE PAINTED UNLESS NOTED OTHERWISE.

REFLECTED CEILING PLAN LEGEND

- GYPSUM BOARD CEILING, PAINTED PT02
- METAL SOFFIT
- 6" x 4' LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- 9'-0" FINISH HEIGHT OF CEILING A.F.F.
- C SOFFIT-MOUNTED CAMERA - FINAL LOCATION TO BE COORDINATED WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

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JEFFREY A. HAFER REGISTERED No. AR00880125 STATE OF INDIANA ARCHITECT

Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:

Sheet title:

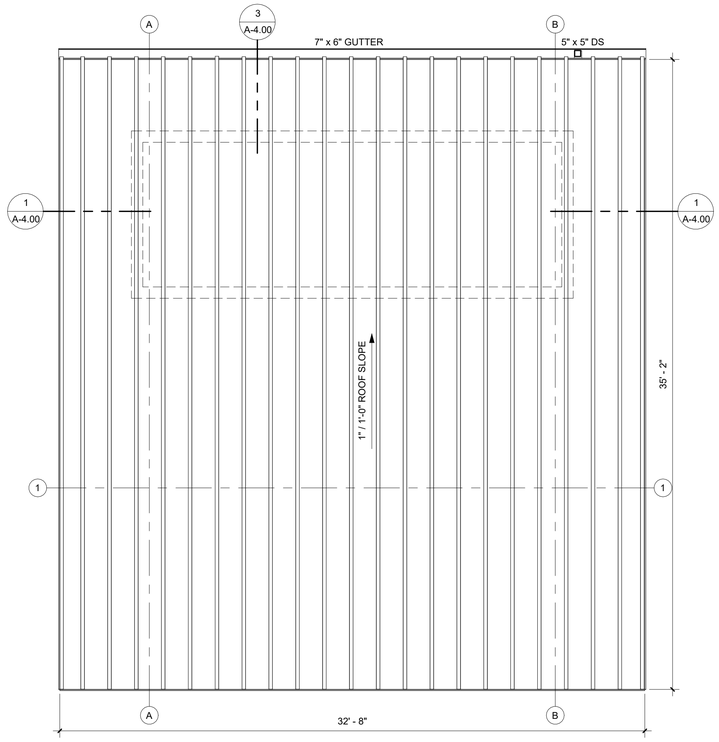
REFLECTED CEILING PLANS AND DETAILS

Architect's Project No: Date:

PROJECT NO. 2404-183 DATE: SEPTEMBER, 2025

Drawing No:

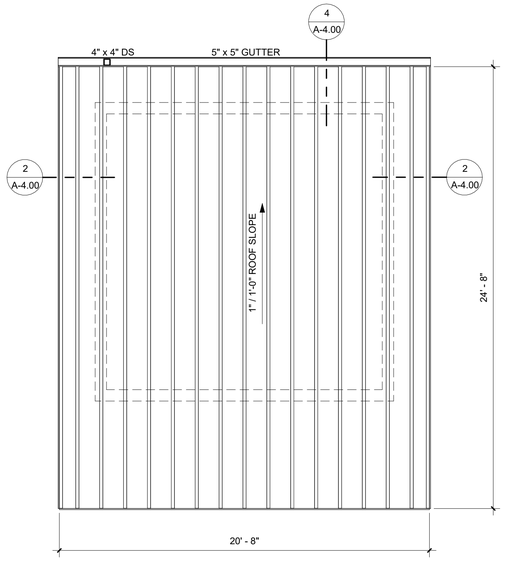
A-3.00



PERFORMANCE PLATFORM BUILDING ROOF PLAN

1/4" = 1'-0"

0' 1' 2' 4'

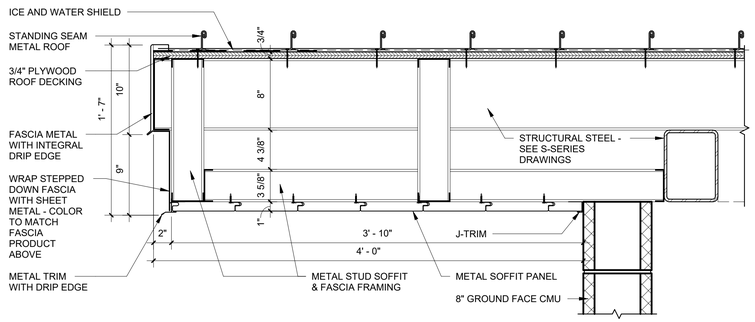


RESTROOM BUILDING ROOF PLAN

1/4" = 1'-0"

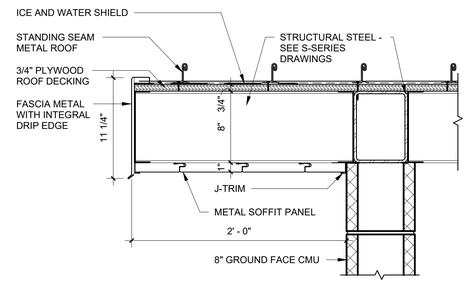
North

0' 1' 2' 4'



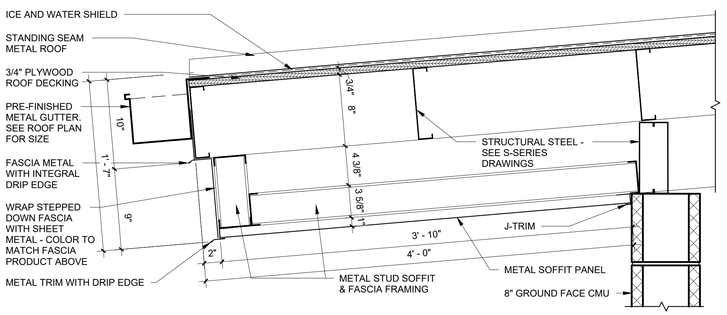
1 ROOF EDGE DETAIL

1 1/2" = 1'-0"



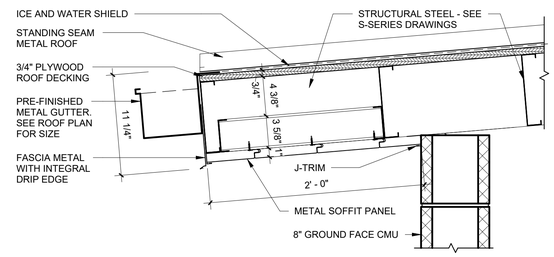
2 ROOF EDGE DETAIL

1 1/2" = 1'-0"



3 GUTTER EDGE DETAIL

1 1/2" = 1'-0"



4 ROOF EDGE DETAIL

1 1/2" = 1'-0"

GENERAL ROOF PLAN NOTES:

1. ROOFING SYSTEM IS COMPRISED OF 2" STANDING SEAM METAL ROOF SYSTEM OVER PLYWOOD DECKING OVER STEEL STRUCTURE.
2. ALL MISC. ROOF PENETRATIONS AND FLASHING NOT SPECIFICALLY DETAILED OR NOTED SHALL BE CONSTRUCTED AS RECOMMENDED BY THE ROOFING MANUFACTURER.
3. EXTEND TOP OF ALL VENTS A MINIMUM 1'-0" ABOVE THE FINISHED ROOF SURFACE.
4. HIGH TEMPERATURE ICE AND WATER SHIELD TO BE INSTALLED UNDER ENTIRE SURFACE OF METAL ROOF ALONG WITH ANY OTHER UNDERLAYMENTS/MOISTURE BARRIERS PER MANUFACTURER'S RECOMMENDATIONS.
5. SEE ROOF PLANS FOR DOWNSPOUT AND GUTTER SIZES.

ROOF PLAN LEGEND

STANDING SEAM METAL ROOF

4TH AND MAIN PARK

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JEFFREY A. HAFER REGISTERED No. AR00880125 STATE OF INDIANA ARCHITECT

Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:

Sheet title:

ROOF PLANS AND DETAILS

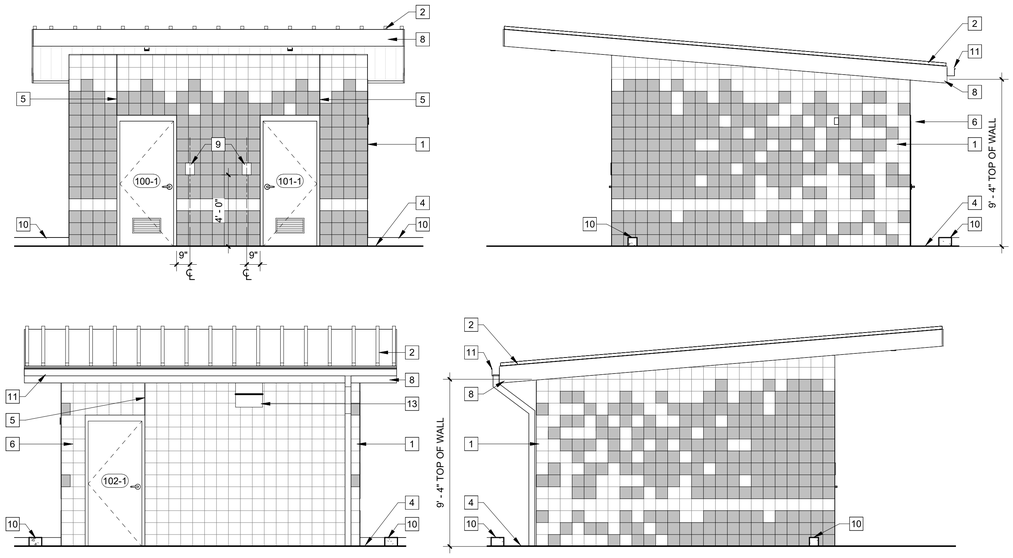
Architect's Project No: Date:

PROJECT NO. 2404-183 DATE: SEPTEMBER, 2025

Drawing No:

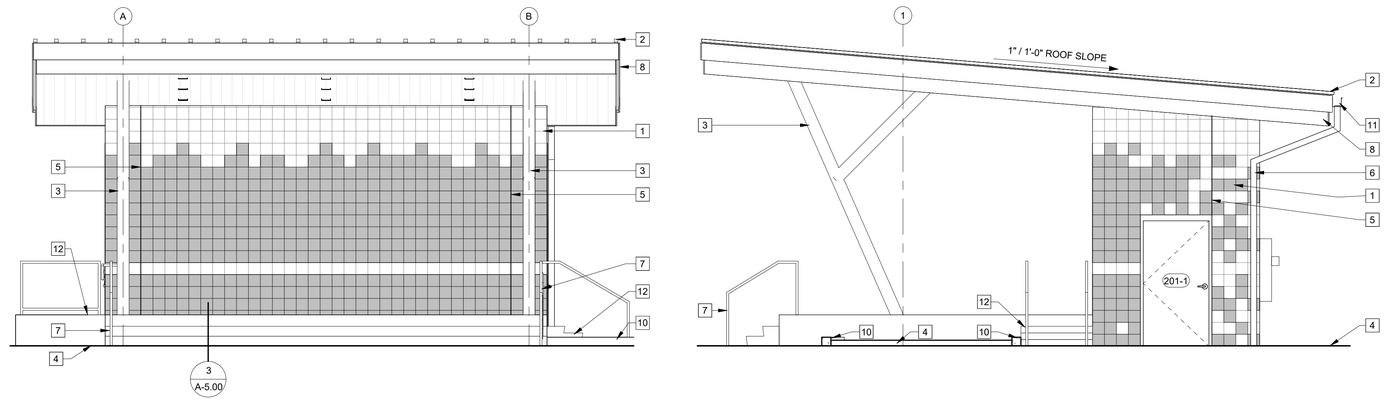
A-4.00

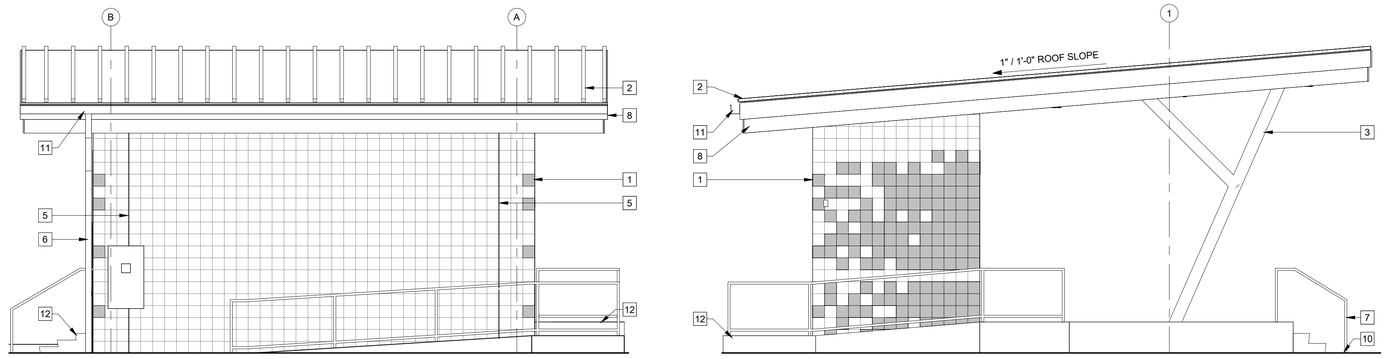
/20



1 RESTROOM BUILDING EXTERIOR ELEVATIONS

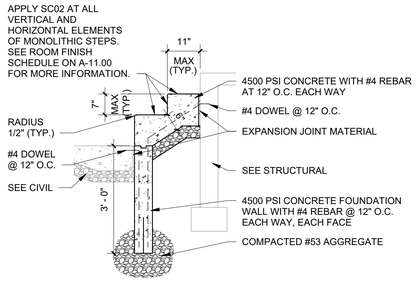
1/4" = 1'-0"





2 PERFORMANCE PLATFORM BUILDING EXTERIOR ELEVATIONS

1/4" = 1'-0"



3 PERFORMANCE PLATFORM STAIR DETAIL

1/2" = 1'-0"

GENERAL ELEVATION NOTES:

1. CONTRACTOR SHALL CAULK DOOR FRAME FROM FLOOR CONTINUOUSLY AT THE PERIMETER OF DOOR AND WINDOW FRAMES.
2. CONSTRUCTION AND INSTALLATIONS SHALL CONFORM TO ALL FEDERAL, STATE LOCAL ORDINANCES, CODES, ETC.
3. ALL HOLLOW METAL FRAMES TO BE PAINTED - COLOR TO MATCH HOLLOW METAL DOORS AND IS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
4. ALL GRADES SHOWN IN ELEVATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL VERIFY AND COORDINATE GRADES WITH CIVIL DRAWINGS.
5. CONTRACTOR SHALL CAULK ALL DISSIMILAR MATERIALS (ie. DRYWALL, CMU.
6. COORDINATE ALL EXTERIOR WALKWAYS WITH CIVIL/LANDSCAPE ARCHITECTURE DRAWINGS. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE FOUND.

ELEVATION REFERENCE NOTES:

1. GROUND FACE FINISH 8" x 8" x 8" (NOM.) SINGLE-WYTHE EXTERIOR CMU. EXACT LAYOUT OF CMU 01 & CMU 02 TO BE APPROVED BY ARCHITECT DURING SHOP DRAWING REVIEW.
2. STANDING SEAM METAL ROOF
3. STEEL TUBE COLUMN, PAINTED
4. GRADE LINE, APPROXIMATE
5. CONTROL JOINT IN CMU, SEALANT & BACKER ROD
6. PRE-FINISHED METAL DOWNSPOUT CONNECTED TO UNDERGROUND STORM DRAINAGE.
7. HANDRAIL. SEE DETAIL 4/LA503 FOR PROFILE, FINISH, ETC. REFER TO PLAN FOR HANDRAIL RUN DIMENSIONS.
8. PREFINISHED METAL FASCIA AND TRIM
9. 8" x 6" EXTERIOR ADA COMPLIANT SIGN
10. CONCRETE CURB, APPROXIMATE
11. PRE-FINISHED METAL GUTTER.
12. SEE CIVIL/LANDSCAPE DRAWINGS FOR STAIR/RAMP DETAILS
13. THRU-WALL EXHAUST FAN GRILLE. ALIGN PENETRATION WITH CMU BLOCK. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION. SEE MECHANICAL DRAWINGS.

ELEVATION LEGEND & NOTES

- STANDING SEAM METAL ROOF
- FLUSH METAL SOFFIT
- CMU 01
- CMU 02

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JEREMY A. JUSTICE
REGISTERED
No.
AR00880125
STATE OF
INDIANA
ARCHITECT

Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:

Sheet title:

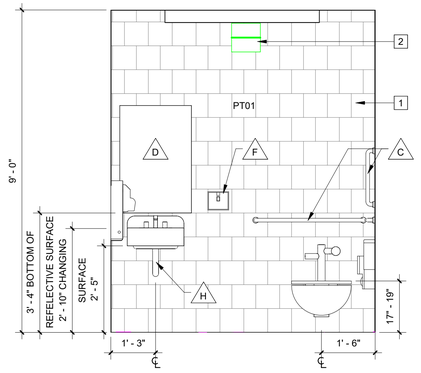
BUILDING ELEVATIONS

Architect's Project No: Date:

PROJECT NO. DATE:
2404-183 SEPTEMBER, 2025

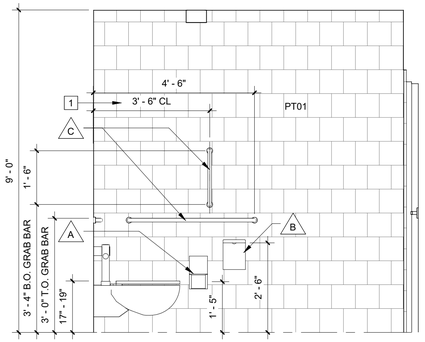
Drawing No:

A-5.00



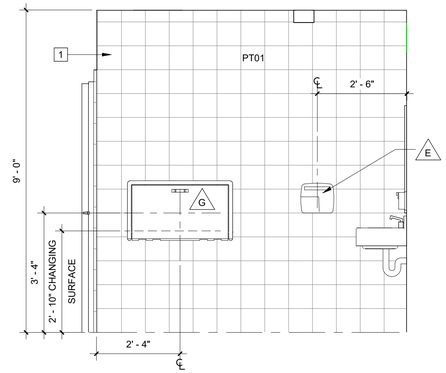
1 TOILET 100 - NORTH

1/2" = 1'-0"



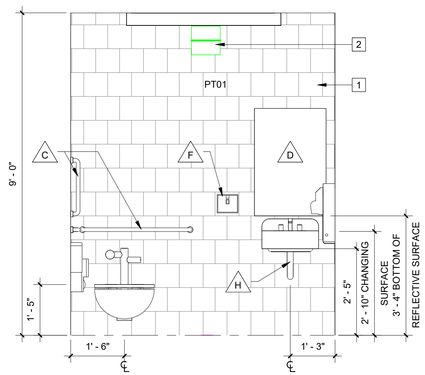
2 TOILET 100 - EAST

1/2" = 1'-0"



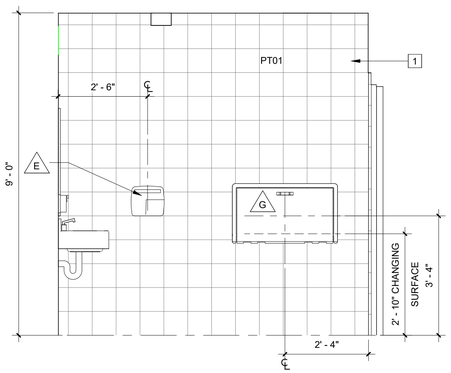
3 TOILET 100 - WEST

1/2" = 1'-0"



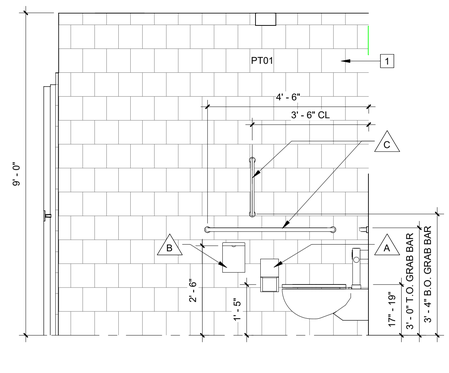
4 TOILET 101 - NORTH

1/2" = 1'-0"



5 TOILET 101 - EAST

1/2" = 1'-0"



6 TOILET 101 - WEST

1/2" = 1'-0"

TOILET ACCESSORY SCHEDULE:

REFER TO SPECIFICATIONS FOR MANUFACTURER MODEL NUMBERS. MODEL NUMBERS REFER TO "BOBRICK WASHROOM ACCESSORIES," SATIN STAINLESS FINISH OR APPROVED EQUAL

SYMBOL	ACCESSORY TYPE
A	TOILET TISSUE DISPENSER
B	SANITARY NAPKIN DISPOSAL
C	GRAB BAR 36" HORIZONTAL (SIDE) GRAB BAR 42" HORIZONTAL (BACK) GRAB BAR 18" VERTICAL
D	METAL FRAMED MIRROR, 24" x 36"
E	HAND DRYER
F	SOAP DISPENSER
G	CHANGING TABLE
H	ADA COMPLIANT PIPE PADDING

ELEVATION REFERENCE NOTES:

1. PREP, PRIME, AND PAINT CMU WALL.
2. THRU-WALL EXHAUST FAN GRILLE. ALIGN PENETRATION WITH CMU BLOCK. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION. SEE MECHANICAL DRAWINGS.

ROOM FINISH SCHEDULE

WALL A / WALL D / WALL C / WALL B

Room Number	Room Name	Floor Finish	Base Finish	Wall Finish: Wall A	Wall B	Wall C	Wall D	Ceiling Finish	Comments	Number
100	TOILET	SC01	-	PT01	PT01	PT01	PT01	PT02	1	100
101	TOILET	SC01	-	PT01	PT01	PT01	PT01	PT02	1	101
102	STORAGE	SC01	-	PT01	PT01	PT01	PT01	UNF	1	102
200	PERFORMANCE PLATFORM	SC02	-	UNF	-	-	-	UNF	1, 2	200
201	STORAGE/ELEC.	SC01	-	PT01	PT01	PT01	PT01	UNF	1	201

ROOM FINISH LEGEND:

SC01 - SEALED CONCRETE, TROWEL FINISH

SC02 - STAINED AND SEALED CONCRETE

PT01 - PAINTED C.M.U.

PT02 - PAINTED WATER RESISTANT GYPSUM BOARD

UNF - UNFINISHED

ROOM FINISH COMMENTS:

1. PROVIDE EXPANSION JOINT WITH JOINT FILLER BETWEEN CONCRETE SLAB AND EXTERIOR CMU WALL AT ALL EDGES.
2. THE STAIN APPLIED TO THE CONCRETE FLOOR AT THE PERFORMANCE PLATFORM IS TO ALSO BE APPLIED TO THE VERTICAL SIDES OF THE PLATFORM AND THE HORIZONTAL AND VERTICAL FACES OF THE MONOLITHIC STEPS AT THE FRONT.

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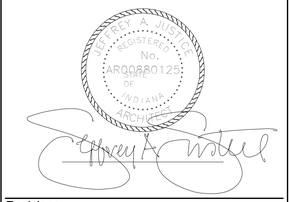

Revisions:

#	Description	Date

Designed By: | Drawn By: | Checked By:

Sheet title:
INTERIOR ELEVATIONS, FINISH SCHEDULE, AND TOILET ACCESSORIES

Architect's Project No: Date:

PROJECT NO. 2404-183 DATE: SEPTEMBER, 2025

Drawing No:

A-11.00

V20

GENERAL NOTES

As used in these General Notes:
"Drawings" means the latest structural design drawings, uno.
"Specifications" means the latest project specifications, uno.
"Contract Documents" is defined as the design drawings and the specifications.
"SER" is defined as the structural engineer of record for the structure in its final condition.
"Design Professionals" is defined as the owner's architect
"MEP" includes, but is not limited to Mechanical, Electrical, Plumbing, Fire Protection.
"Contractor" is defined to include any of the following: General Contractor and their Subcontractors, Construction Manager and their Subcontractors, Structural Steel Fabricator or Structural Steel Erector.
"Base Building Structure" is defined as the structural frame desinged by JQOL Global LLC.
"Structure in its final condition" means all structural elements shown on the structural contract documents are installed and completely connected and inspected with no outstanding non-comliance issues.

The Contractor is solely responsible for the stability of the structure until the construction of the structure reaches its final condition.

The Contractor is responsible for coordination of the Structural work with the Architectural, Civil, MEP contract documents, as well as any other applicable trades. The architectural, mechanical, electrical and plumbing aspects are not in the scope of these drawings. Therefore, all required materials and work may not be indicated. Refer to architectural drawings for all dimensions not shown on these drawings. Locations, sizes and numbers of all openings may not be completely indicated in the structural drawings. The respective contractor shall verify their work with all other disciplines.

The contractor is solely responsible for the design, installation, and removal of temporary bracing and construction supports, for new and existing structures, as necessary to complete the project. No portion of the project while under construction is intended to be stable in the absence of the contractor's temporary supports and braces. Contractor shall retain a structural engineer licensed in the state in which the project is located to design temporary bracing and construction supports.

The contract documents represent the structure only. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not limited to, bracing, shoring, underpinning, etc. the Engineer of Record is not responsible for the contractor's means, methods, techniques, sequences or safety procedures during construction.

The specifications are an integral part of the contract documents and shall be used in conjunction with the structural drawings.

The contractor shall verify all existing dimensions and conditions and coordinate with the structural drawings, architectural drawings, drawings from other consultants, project shop drawings and field conditions.

Apply details, sections, and notes on the drawings where conditions are similar to those indicated by detail, detail title or note.

Only use dimensions indicated on the drawings. Do not scale drawings.

Assume equal spacing between established dimensions, if not indicated on drawings.

Centerlines of columns and foundations coincide with grid line intersections, uno.

Centerlines of grade beams and walls coincide with centerlines of foundations, uno.

Centerlines of framing members coincide with column centerlines, uno.

The contractor shall verify that construction loads do not exceed the capacity of the structure at the time the load is applied.

Reactions and forces indicated are unfactored, Allowable Strength Design (ASD) loads.

If Drawings and specifications are in conflict, the most stringent restrictions and requirements shall govern.

Notes and details shall take precedence over general structural notes. Where no details or sections are shown, construction shall conform to similar work on the project. Typical sections and details may not be cut on the plans, but apply unless noted otherwise.

Verify all existing conditions prior to any construction or fabrication. If different than shown, notify engineer/architect immediately for modification of drawings.

Provisions for future expansion:
Horizontal: None
Vertical: None

SHOP DRAWINGS SUBMITTAL

The Contractor shall prepare detailed shop drawings to enable all parts of the work to be fabricated and constructed in accordance with the drawings and specifications. These shop drawings will be reviewed for general compliance with the design intent only. The contractor is responsible for all dimensions, accuracy and fit of the work.

All shop drawings shall be reviewed by the contracted prior to submittal to the structural engineer. Drawings without the contractor's review will be returned without review.

Work requiring submittals for structural engineer review shall not be started by the contractor without appropriate reviewed submittals. Work performed by the contractor prior to receiving appropriate received submittals shall be subject to removal and replacement as deemed necessary by the structural engineer, at the contractor's expense, and with no cost to the owner

Submit shop drawings for each of the following items:

1. CONCRETE MIX DESIGNS
2. STRUCTURAL STEEL
3. REINFORCING STEEL - FOUNDATIONS
4. REINFORCING STEEL - CONCRETE MASONRY UNITS (SUBMITTAL SHALL INCLUDE PLAN VIEW, WALL ELEVATIONS AND WALL SECTIONS)
5. COLD-FORMED STEEL
6. CONCRETE MASONRY UNITS

014000 DELEGATED DESIGN

DELEGATED DESIGN REQUIREMENTS
A Specialty Structural Engineer (SSE), registered in the state of the project, shall be responsible for the structural design of the following products and systems complying with specific performance and design criteria indicated.

1. Cold-Formed Steel CFS joists and accessories.
2. Stairs, ladders, and railings.

The contractor is to review each submittal prior to forwarding to architect and structural engineer. The contractor is to stamp each submittal verifying that the following is addressed:
1. The shop drawing is requested.
2. The shop drawing is based on the latest design.
3. The architect' s and structural engineer' s comments from any previous submittals are addressed.
4. The work is coordinated among all construction trades.
5. Revisions from previous submittals are clearly marked by circling or clouds.
6. Submittal is complete.
7. Submittal does not include substitution request
8. Submittal shall include a stamp indicating project name and location, submittal number, specification section number.

The structural engineer shall return, without comment, submittals which the contractor has not stamped or which do not meet the above requirements. The structural engineer' s review of submittals shall be for general conformance with the design intent. No work shall be started without such review.

The structural engineer will return the shop drawing items within ten working days after having received the reproducible shop drawing.

CODES AND DESIGN CRITERIA

CODES
Building Code: 2012 International Building Code
Local Building Code: Indiana Building Code 2014
Code Standard: ASCE 7-10
Steel Standard: AISC 360-10 ASD
Steel Seismic Standard: AISC 341-10 ASD
Concrete Standard: ACI 318-11
Masonry Standard: TMS 402/602-11
Wood Standard: AITC/APA/NDS Current Ed.
Risk Category: II Normal Risk
Exposure Category: C

ROOF LOADS
Main: See Load Schedule

SOILS
Soils Report: No soils report at the time of these documents

	Spread	Wall
Allowable Bearing Pressure, qa:	1500 psf	1500 psf
Soil Density, yt:	120 pcf	
Minimum Foundation Bearing Depth:	24 in	

SLAB ON GRADE
Compacted Fill Thickness: 6 in
Compaction Specification: 95% Modified Proctor D-1557

SNOW DESIGN CRITERIA
Ground Snow Load, Pg: 20 psf
Flat Roof Snow Load, Pf: 16.8 psf
Minimum Snow, Pm: 20 psf
Importance Factor, Is: 1.0
Exposure Factor, Ce: 1.0 Partially
Thermal Factor, Ct: 1.2 Unheated
Warm Slope Factor, Cs: 1.0

WIND DESIGN CRITERIA
Ultimate Wind Speed, Vult: 115 mph
Design Wind Speed, Vasd: 90 mph
Enclosure Class: Open - Stage; Enclosed - Restroom
Internal Pressure Coefficient, GCpi: 0.0 - Stage; ±0.18 - Restroom
Roof Net Uplift: See S-010 Loading Sheet

SEISMIC DESIGN CRITERIA
Importance Factor, Ie: 1.0
Ss: 0.569
S1: 0.200
SDS: 0.510
SD1: 0.266
Site Class: D
Seismic Design Category: C
Overstrength Factor, Ω: 3
Seismic Response Coefficient, CS: 0.17
Unfactored Design Base Shear, V: 17.0% * W
Analysis Procedure: ELFA
Basic Seismic-Force-Resisting System:
Stage:
Seismic Response Coefficient, CS: 0.17g
Unfactored Design Base Shear, V: 17.0% * W
H. Steel Systems not Specifically Detailed for Seismic Resistance
1. Steel Systems
R=3; Ω=3; Cd=3

Restroom:
Seismic Response Coefficient, CS: 0.17g
Unfactored Design Base Shear, V: 17.0% * W
A. Bearing Wall
9. Ordinary reinforced masonry
R=2; Ω=2.5; Cd=1.75

020000 SHALLOW FOUNDATION AND SLAB ON GRADE NOTES

Soil to be stripped, compacted and tested in accordance with the recommendations of the soils engineer and project specifications.

Footings shall be placed on firm, undisturbed soil or on engineered fill. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

Slabs shall be placed on 6" compacted, free-draining, frost-free drainage course. Drainage Course: Narrowly graded mixture of washed crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve. All fill shall be compacted to a minimum dry density of 95% of the Modified Proctor maximum dry density (ASTM D-1557), placed in 6" to 8" lifts. Pea gravel may not be used as fill. Utility trenches and excavations under the foundations or slabs shall meet the same requirements. See soils investigation report for further recommendations.

Undercutting of the soil for foundation and/or slab placement may be required. These drawings do not indicate the entire scope of undercutting, fill or bad soil removal that may be required to attain the design soil bearing pressures. It is the responsibility of the contractor to obtain a soils investigation report, before bidding, to assess the extent of excavation and compaction that may be required to meet the design criteria. The contractor shall retain the services of a soils engineer to monitor all backfilling operations and to inspect footing bearing material. A report certified by the soils engineer shall be furnished to the architect/engineer verifying that all foundations were placed on a material capable of sustaining the design bearing pressures.

If dewatering is required, sumps shall not be placed within the foundation excavation.

Maintain a maximum slope between adjacent footing bearing elevations of 2 horizontal to 1 vertical. Maintain a 2 horizontal to 1 vertical slope next to existing foundations to avoid undermining foundations.

No horizontal joints are permitted in any foundation. Vertical joints are permitted only in wall footings.

Shallow foundations may be earth-formed where the excavation permits. If earth-forming is used, add 2" to the width and length of all foundations.

The bottom of all foundations shall be a minimum of 24" depth below final grade.

FOUNDATIONS FOR THIS PROJECT HAVE BEEN DESIGNED ASSUMING THE SOIL IS SUITABLE TO SUPPORT 1500 PSF SPREAD FOOTING WITH SETTLEMENT NOT TO EXCEED 1/8" BASED OFF OF IBC CODE MINIMUM FOR THIS REGION.

033000 CAST IN PLACE CONCRETE NOTES (Foundations, Slabs, & Walls)

See concrete mix schedule for mix design requirements.

All reinforcing shall conform to the following concrete cover:

COVER	LOCATION
3"	Foundations & Footings: All surfaces; Exterior Slabs: Bottom; Grade Beams & Trench Footings: All surfaces; All concrete cast against soil.
2"	Exterior Walls, All Piers & All Pilasters: All surfaces;
1 1/2"	Exterior Slabs: Top; All exterior concrete Interior beams & columns: All surfaces; All concrete not exposed to weather or in contact with ground.
3/4"	Interior slabs, Walls & joists

Welded Wire Reinforcement (WWR) for slabs and fill for metal deck shall be placed in the upper-third of the slab or fill. See details.

All reinforcing steel shall be detailed, supplied and placed in accordance with ACI 315, ACI 318 and CRSI MSP-1.

All reinforcing steel shall be shop fabricated and, where applicable, shall be wired together and conform to ASTM A-615, Grade 60.

Chamfer edges of exposed concrete 3/4", unless noted otherwise.

Contractor shall make four, 6"x12" test cylinders for each 50 cubic yards of concrete poured for each days operation. Break 1 at 7 days, 2 at 28 days and retain spare.

All welded wire fabric shall conform to ASTM A1064, Fy(min) of 65 ksi. All welded wire fabric laps shall be 8".

All finished concrete, concrete formwork and falsework shall be in accordance with ACI 301. Contractor is solely responsible for the design and construction of all formwork, falsework and shoring.

Provide sleeves for all openings in grade beams or walls to totally separate pipe from concrete.

Foundations may be earth-formed where the excavation permits. If earth-forming is used, add 2" to the width, length & thickness of all foundations.

Plastic Vapor Retarder: ASTM E 1745, Class A, not less than 10 mils (0.25 mm) thick, see specifications. Include manufacturer's recommended adhesive or pressure-sensitive joint tape.

Adhesive Anchors and Adhesives Used for Reinforcing Anchorage:
1. The adhesive anchor system used for post-installed anchorage to concrete shall conform to the requirements of the most recently published ACI 355.4.
2. Adhesive anchors indicated are the Basis-of-Design. Approved equal meeting ACI 355.4 is permitted.
3. Bulk-mixed adhesives are not permitted.
4. Anchors shall be supplied as an entire system with manufacturer's recommendations adhered to.
6. Installation of adhesive anchors horizontally or upwardly inclined shall be performed by personnel certified by the ACI/CRSI Adhesive Anchor Installer Certification program.
7. Adhesive anchors installed in horizontal or upwardly inclined orientations shall be continuously inspected during installation by an inspector specially approved for that purpose.

Bonding agent for bonding fresh concrete to hardened concrete: ASTM C 1059/C 1059M, Type II, nonredispersible, acrylic emulsion or styrene butadiene.

051200 STRUCTURAL STEEL NOTES

All structural steel shall conform to the following:

W Shapes	ASTM A992, Grade 50.
Angles, Channels, Plates, Bars	ASTM A36 (Fy=36 ksi)
HSS Tubes	ASTM A500, Grade C (Fy=50 ksi)
HSS Rounds	ASTM A500, Grade C (Fy=46 ksi)
Anchor Rods	ASTM F1554, Grade 36

All steel shall be detailed, fabricated and erected in accordance with:
- AISC 360 "Specification for Structural Steel Buildings", Allowable Strength Design (ASD)
- AISC 303 "Code of Standard Practice"

Submit connections not specifically detailed on the drawings to the SER for review prior to review of shop drawings. Where no shear is indicated on drawings design connection for minimum 10 k reaction and where no moment is indicated on drawings provide full moment capacity of member per ASD Design Requirements.

All bolted connections shall be made with 3/4" diameter, A325 bolts with nuts and washers, unless otherwise noted. All connections shall be shear bearing connections tightened to snug-tight condition, unless otherwise noted.

All shop and field welds shall be made using E70 electrodes or equivalent.

Splices shall be allowed only at locations specifically indicated on the structural drawings unless approved otherwise by the SER in writting.

For steel members and embedments exposed to weather, provide hot-dipped galvanized finish, uno.

Provide holes in all steel as required to provent any accumulation of water. All penetrations through main members shall not exceed 1 1/8" dia. and shall be ground smooth. These drains must be kept clean and open.

Field modification of structural steel is prohibited without prior approval of the architect and structural engineer.

Steel fabricator shall obtain the size and location of all openings for grilles, louvers, etc. before proceeding with the fabrication and erection of any required frames.

Provide Heckman #129 and #130 channel slot anchors and channel slot at all columns that abut masonry walls, uno.

Provide temporary bracing of the structure until all permanent lateral support is in place.

Structure Stability: The entire roof and/or floor decking materials must be fully erected and connected to the supporting steel before temporary, erection bracing is removed.

RD = Roof Drain location. Provide steel frame for drains. See other drawings for actual drain type, number, size, etc. Coordinate with drain contractor.

Remove erection bolts and fill holes in all exposed braces.

042000 MASONRY AND REINFORCED MASONRY NOTES

Minimum 28 day compressive strength of concrete masonry units shall be 2000 p.s.i. based on net area of the unit. Specified design compressive strength of masonry shall be f'm = 2000 p.s.i. All units for exterior walls, load-bearing walls and shear walls shall be normal weight block.

All mortar shall be Type S. No admixtures may used unless approved by architect/engineer. Mortar shall not be used for grouting cores or filling bond beams.

Lay masonry units in running bond uno with units designed to align with webs on each course.

Course grout shall be used where grouting is required. Slump shall be 8" +/- 1". Minimum grout compressive strength shall be 2000 p.s.i.

All reinforcing shall be ASTM A615 Grade 60 (Fy=60 ksi). Lap all reinforcing a minimum of 48 bar diameters.

Center vertical reinforcing in block cores, unless noted otherwise.

See architectural and specifications for all control joint locations. Reinforcing in bond beams shall be discontinuous at control joints.

Provide ladder type horizontal joint reinforcement at 16" o.c. typical and 8" o.c. for parapets and below ground floor elevation. Side rods and cross rods shall be #9 wire, galvanized, see specifications. Cut joint reinforcement at control joints.

Provide "L" bars at all bond beam corners as required.

Fill cores of block solid with grout two full courses below the bearing of all beams or lintels supported on masonry.

All attachments to block shall be made with Hilti HLC 1/2" diameter x 3" sleeve anchors, unless noted otherwise. Anchors shall be installed per manufacturer's recommendations.

See typical schedules for masonry and steel lintels not indicated on plans.

Grout solid cores with reinforcement. Grout solid cells in below grade construction where masonry is in contact with soil.

Provide ties to all structural steel.

All interior, non-load bearing masonry walls over 12'-0" high, shall be supported on thickened slab as per typical detail. Wall vertical reinforcing shall be #5 @ 48" OC full height. Unless noted otherwise.

Place grout by low-lift method. Maximum grout pour shall be 5 feet.

054000 COLD FORMED STEEL FRAMING NOTES (Delegated Design)

Delegated Design: All cold formed steel framing shall be by Specialty Structural Engineer (SSE), registered in the state of the project. The SSE shall be responsible for the structural design of all cold-formed-steel design, products and systems complying with specific performance and design criteria indicated

All design and construction of cold formed steel shall comply with the contract documents, referenced codes, standards, notes, layouts and the following American Iron and Steel Institute (AISI) documents, including all AISI referenced documents therein:
S100-2007 Specification
S200-2007 General Provisions
S201-2007 Product Data
S210-2007 Floor & Roof Systems
S211-2007 Wall Stud Design
S213-2007 Lateral Design with Supplement No. 1
S212-2007 Header Design
S214-2007 Truss Design

Unless noted otherwise, provide the following minimum member sizes, unless larger size or lesser spacing is required:

TYPE	SIZE
Roof trusses and joists	800 S 350-54

All members and systems shall conform to the following maximum movements:

TYPE	LIVE INDEX	MAXIMUM
Roof trusses and joists	L/360	1 1/2"

The most stringent requirements shall govern in conflicts between specified codes and standards.

All products shall have four-part identification code which identifies size, style and material thickness of each member.

All materials shall conform with ASTM A1003, structural grade 50.

Corrosion protection for all materials shall comply with ASTM A653. Minimum, hot-dipped galvanized coating weight for exterior walls and all roof materials shall be G90. All other materials shall be G60.

Provide factory punchouts in all wall studs where required.

Provide standard color coding for all products.

Provide 1/2" ASTM F1554, Grade 36 hooked anchor bolts at all steel tracks, u.n.o. Anchor bolt spacing = 48" OC, uno. Provide anchor bolt at 8" from the ends of all walls, uno.

For all non-load bearing studs, provide deflection clips isolating the stud from the primary structure.

All track butt joints shall be anchored to a common structural element.

Horizontal bracing of wall studs shall be provided at 6 feet on center maximum.

Place joists and trusses directly over wall studs.

Fastening of elements shall be self-drilling screws or welding of sufficient size to transfer required loads. All welding of galvanized steel shall be touched up with zinc-rich paint. Minimum thickness of material for welding is 54 mil.

All screws shall be non-corrosive, No. 12-14 or larger.

See architectural drawings for all non-structural stud requirements.

All floor and roof trusses shall have a minimum flange width of 1 5/8".

Floor and roof truss bottom chords shall be designed for 10 psf dead load, not in addition to design loading.

Lateral Force Resisting System (LFRS) shall comply with forces indicated.

ABBREVIATIONS LIST

AR	ANCHOR RODS	O/O	OUT TO OUT
ABV	ABOVE	OA	OVERALL
ACI	AMERICAN CONCRETE INSTITUTE	OC	ON CENTER
ADD'L	ADDITIONAL	OD	OUTSIDE DIAMETER
ADH	ADHESIVE	OF	OUTSIDE FACE
ADJ	ADJACENT	OH	OVER HEAD
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	OPNG	OPENING
		OPP	OPPOSITE
AFF	ABOVE FINISHED FLOOR	OPP HD	OPPOSITE HAND
AGGR	AGGREGATE	OSB	ORIENTED STRAND BOARD
AHU	AIR HANDLING UNIT	OSL	OUTSTANDING LEG
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	OVS	OVERSIZE HOLE
		PAF	POWDER ACTUATED FASTENER
AISI	AMERICAN IRON AND STEEL INSTITUTE	PC	PRECAST
		PL	PLATE
ALUM	ALUMINUM	PLF	POUNDS PER LINEAR FOOT
ALT	ALTERNATE	PLYWD	PLYWOOD
APPROX	APPROXIMATE	PNL	PANEL
ARCH	ARCHITECT	PROJ	PROJECTION
ARCHTL	ARCHITECTURAL	PSF	POUNDS PER SQUARE FOOT
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	PSI	POUNDS PER SQUARE INCH
		PSL	PARALLEL STRAND LUMBER
AWS	AMERICAN WELDING SOCIETY	PT	PRESSURE TREATED
L	ANGLE	PTN	PARTITION
BAL	BALANCE	R	RADIUS
BB	BOND BEAM	RD	ROOF DRAIN
B/B	BACK TO BACK	REF	REFERENCE
BC	BOTTOM CHORD	REINF	REINFORCE(D) (ING) (MENT)
BD	BOARD	REQ'D	REQUIRED
BLDG	BUILDING	REV	REVISION/REVISED
BLK	BLOCK	RO	ROUGH OPENING
BLW	BELOW	RRD	ROOF RELIEF DRAIN
BM	BEAM	RTN	RETURN
BOTT	BOTTOM	RTU	ROOF TOP UNIT
BP	BEARING PLATE	RW	RETAINING WALL
BRDG	BRIDGING	SCHED	SCHEDULE
BRG	BEARING	SECT	SECTION
BRK	BRICK	SHT	SHEET
BS	BOTH SIDES	SIM	SIMILAR
BSMT	BASEMENT	SJ	SAWCUT JOINT
BTWN	BETWEEN	SJI	STEEL JOIST INSTITUTE
BUC	BUILT UP COLUMN	SL	SLOPED
c	CAMBER	SPA	SPACE(S)
C/C	CENTER TO CENTER	SPECS	SPECIFICATIONS
CANT	CANTILEVER	SQ	SQUARE
CAIS	CAISSON	SS	STAINLESS STEEL
CFS	COLD FORMED STEEL	SSL	SHORT SLOTTED HOLES
CJ	CONTROL AND/OR CONSTRUCTION JOINT	STD	STANDARD
		STIFF	STIFFENERS
CL	CENTERLINE	STL	STEEL
CLR	CLEAR	STRUCT	STRUCTURAL
CMU	CONCRETE MASONRY UNIT	SYMM	SYMMETRICAL
COL	COLUMN	T&B	TOP AND BOTTOM
COORD	COORDINATE	T&G	TONGUE AND GROOVE
COMP	COMPACTED	TB	TIE BEAM
CONC	CONCRETE	TC	TOP CHORD
CONN	CONNECTION	TCX	TOP CHORD EXTENSION
CONST	CONSTRUCTION	TEMP	TEMPERATURE
CONT	CONTINUOUS	TF	TRENCH FOOTING
CONTR	CONTRACTOR	THK	THICK
CTR	CENTER	THKS	THICKENED SLAB
CTR'D	CENTERED	THR'D	THREADED
DIA	DIAMETER	TL	TOTAL LOAD
DIAG	DIAGONAL	TOPP'G	TOPPING
DIM	DIMENSION	TRANS	TRANSVERSE
DL	DEAD LOAD	TYP	TYPICAL
DLT	DEEP LEG TRACK	UNO	UNLESS NOTED OTHERWISE
DO	DITTO	VERT	VERTICAL
DN	DOWN	VIF	VERIFY IN FIELD
DTL	DETAIL	w/	WITH
DWG	DRAWING	WD	WOOD
DWL	DOWEL	WO	WINDOW OPENING (MASONRY)
EA	EACH	WP	WORKING POINT
EE	EACH END	WT	WEIGHT
EF	EACH FACE	WWF	WELDED WIRE FABRIC
E-J	EXPANSION JOINT		
ENG	ENGINEER	**ELEVATION TOP AND BOTTOM OF LIST**	
ELEV	ELEVATION		
ELECT	ELECTRICAL	T/	"ELEVATION, TOP OF"
EOD	EDGE OF DECK	B/	"ELEVATION, BOTTOM OF"
EOS	EDGE OF SLAB	J/BRG	JOIST BEARING ELEVATION
EQ	EQUAL	T/BB	TOP OF BOND BEAM
EQUIV	EQUIVALENT	T/BM	TOP OF BEAM
ES	EACH SIDE	T/CONC	TOP OF CONCRETE
EW	EACH WAY	T/F	TOP OF FOOTING
EXIST	EXISTING	T/LDG	TOP OF LEDGE
EXP	EXPANSION	T/MAS	TOP OF MASONRY
EXT	EXTERIOR	T/P	TOP OF PIER
F/	FACE OF	T/SLAB	TOP OF SLAB
FD	FLOOR DRAIN	T/STL	TOP OF STEEL
FDN	FOUNDATION	T/W	TOP OF WALL
FIN	FINISH	T/GB	TOP OF GRADE BEAM
FLR	FLOOR	T/CAIS	TOP OF CAISSON
FLG	FLANGE	B/PL	BOTTOM OF PLATE
FS	FARSIDE	B/F	BOTTOM OF FOOTING
FTG	FOOTING		
GA	GAUGE	**SPECIAL CHARACTERS**	
GALV	GALVANIZED		
GB	GRADE BEAM	°	DEGREE
GC	GENERAL CONTRACTOR	±	PLUS OR MINUS
GL	GLULAM	⌀	ELEVATION
GR	GRADE	Ø	DIAMETER
HC	HOLLOW CORE		
HD	HOLD DOWN		
HGT	HEIGHT		
HI	HIGH		
HK	HOOK		
HORIZ	HORIZONTAL		
HP	HIGH POINT		
HS	HEADED STUD		
HSS	HOLLOW STRUCTURAL SECTION		
ID	INSIDE DIAMETER		
IF	INSIDE FACE		
INFO	INFORMATION		
INT	INTERIOR		
INV	INVERT		
JST	JOIST		
JT	JOINT		
K	KIP		
KO	KNOCK OUT		
LB	POUND		
LDG	LEDGE		
LG	LONG		
LL	LIVE LOAD		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LNTL	LINTEL		
LSL	LONG SLOTTED HOLES		
LONG	LONGITUDINAL		
LP	LOW POINT		
LVL	LAMINATED VENEER LUMBER		
MAS	MASONRY		
MAT'L	MATERIAL		
MAX	MAXIMUM		
MBM	METAL BUILDING MFR		
MCJ	MASONRY CONTROL JT		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MFR	MANUFACTURER		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MO	MASONRY OPENING		
MOM	MOMENT		
MSW	MASONRY SHEAR WALL		
MSL	MEAN SEA LEVEL		
MTL	METAL		
NO	NUMBER		
NS	NEAR SIDE		
NTS	NOT TO SCALE		

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08.27.2025

Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:

Sheet title:

GENERAL NOTES & ABBREVIATIONS

Architect's Project No: 2404-183

Date: SEPTEMBER 2025

Drawing No:

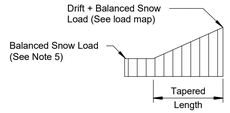
S001

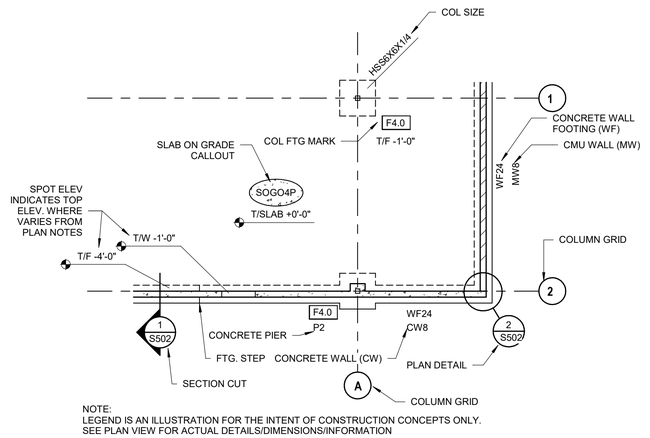
V20

UNIFORM LOAD SCHEDULE

Mark	Description	Design Loads			
		Dead	Superimposed Dead	Live	Snow
A	Typical Floor	Note 1	20 psf	100 psf	NA
B	Typical Roof	Note 1	20 psf	20 psf	20 psf Min -OR- Drift

Notes:
1. Dead Load (when defined) represents self-weight allowance of the primary structural system. When not defined, see drawings for member materials and sizes
2. Superimposed Dead Load is permanent uniform dead load allowance supported by the structure.For Snow Loads design for worst case of uniform snow or snow drift condition.
3. "NR" = Non-reducible Live Load.
4. Balanced Snow Load = **20 psf**
5. Metal pan stair assumed.

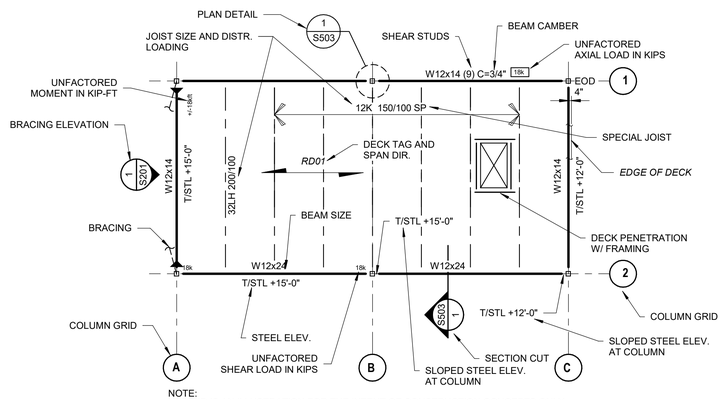




NOTE:
LEGEND IS AN ILLUSTRATION FOR THE INTENT OF CONSTRUCTION CONCEPTS ONLY.
SEE PLAN VIEW FOR ACTUAL DETAILS/DIMENSIONS/INFORMATION

TYPICAL FOUNDATION PLAN LEGEND

SCALE: 3/4" = 1'-0"



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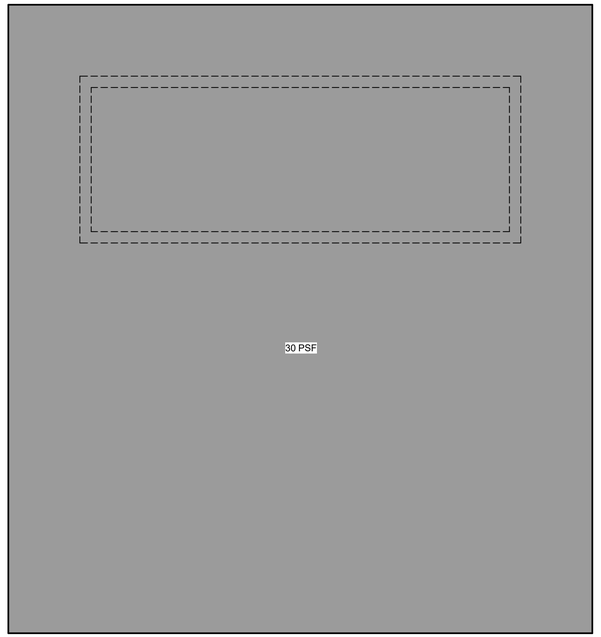
LEGEND IS AN ILLUSTRATION FOR THE INTENT OF CONSTRUCTION CONCEPTS ONLY.
SEE PLAN VIEW FOR ACTUAL DETAILS/DIMENSIONS/INFORMATION

TYPICAL FRAMING PLAN LEGEND

SCALE: 3/4" = 1'-0"

TYPICAL ROOF
UNFACTORED DEAD = 15 PSF
HEIGHT TO EAVES = 12'-4"
TRIB AREA OF JOISTS ≥ 100SF

NOTE:
NET UPLIFT IS UNFACTORED (1.0W) - (1.0D)

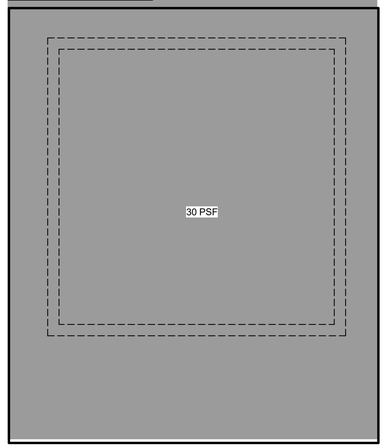


PLATFORM - NET UPLIFT

SCALE: 1/4" = 1'-0"

TYPICAL ROOF
UNFACTORED DEAD = 15 PSF
HEIGHT TO EAVES = 9'-4"
TRIB AREA OF JOISTS ≥ 100SF

NOTE:
NET UPLIFT IS UNFACTORED (1.0W) - (1.0D)



RESTROOM - NET UPLIFT

SCALE: 1/4" = 1'-0"

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Revisions:

#	Description	Date

Designed By: | Drawn By: | Checked By:

Sheet title:

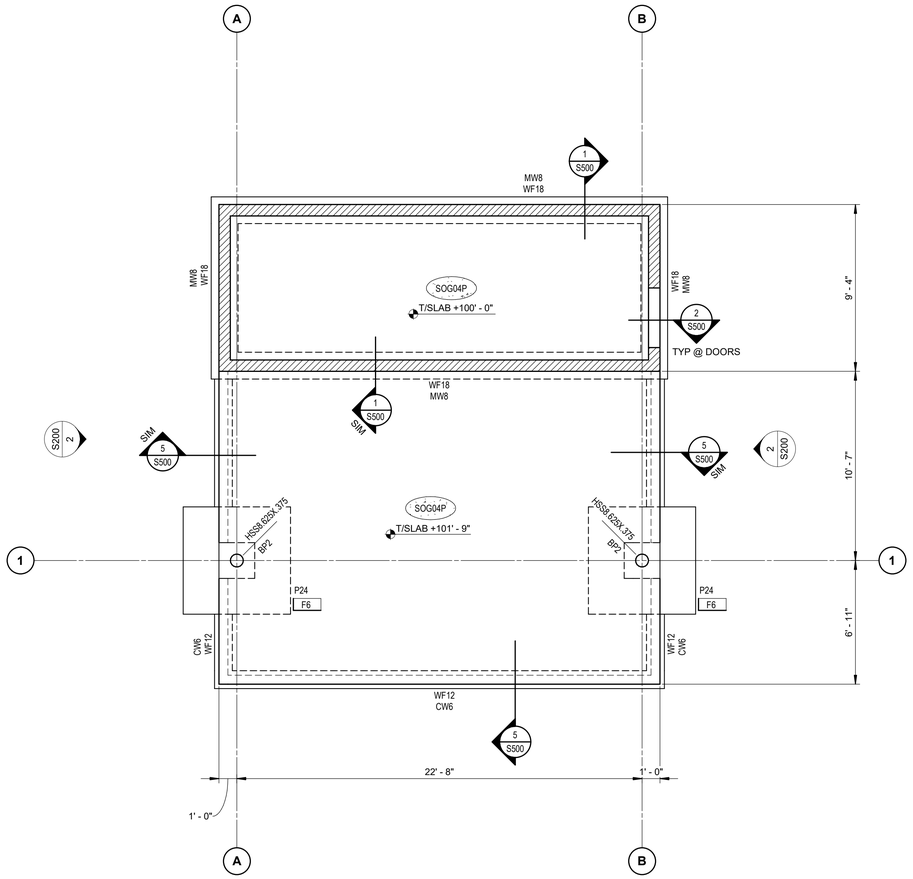
LOAD MAPS

Architect's Project No: 2404-183

Date: SEPTEMBER 2025

Drawing No:

S010



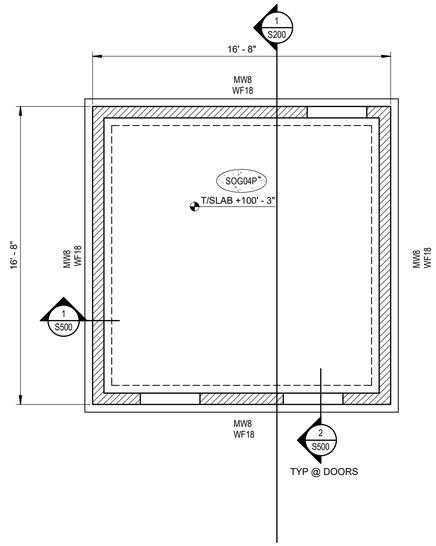
PLATFORM - FOUNDATION

SCALE: 1/4" = 1'-0"

N

PLATFORM FOUNDATION PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +100'-0", SEE CIVIL DRAWINGS +100'-0" = +387.50'.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
3. TOP OF FOOTING (T/F) +98'-0", UNO.
4. TOP OF PIER (T/P) +100'-0", UNO.



RESTROOM - FOUNDATION

SCALE: 1/4" = 1'-0"

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3. TOP OF FOOTING (T/F) +96'-9", UNO.

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08.27.2025

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#	Description	Date

Designed By:	Drawn By:	Checked By:
DWM	DWM	JAV

Sheet title:

FOUNDATION PLAN

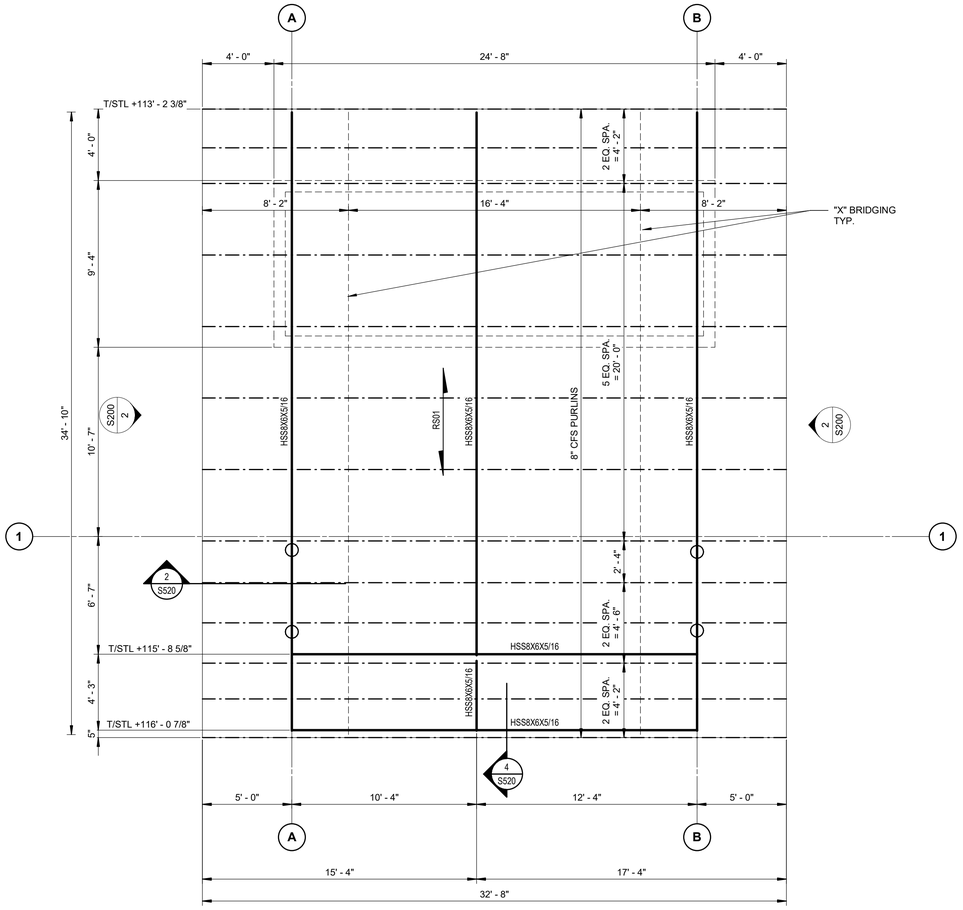
Architect's Project No: 2404-183

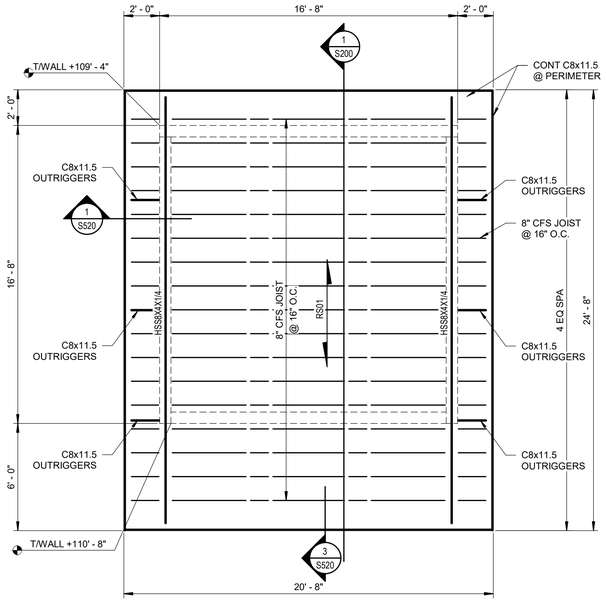
Date: SEPTEMBER 2025

Drawing No:

S100

V20





PLATFORM - ROOF

SCALE: 1/4" = 1'-0"

N

FRAMING PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +100'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.

RESTROOM - ROOF

SCALE: 1/4" = 1'-0"

N

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Sheet title:

ROOF FRAMING PLAN

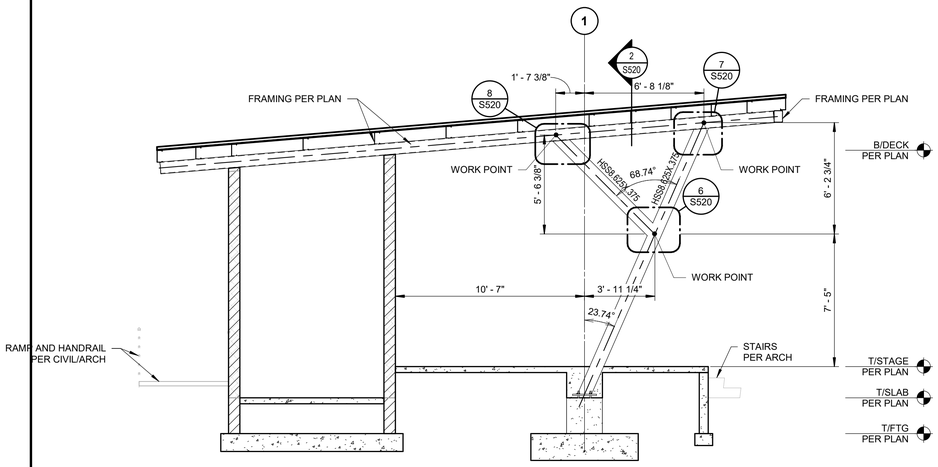
Architect's Project No: 2404-183

Date: SEPTEMBER 2025

Drawing No:

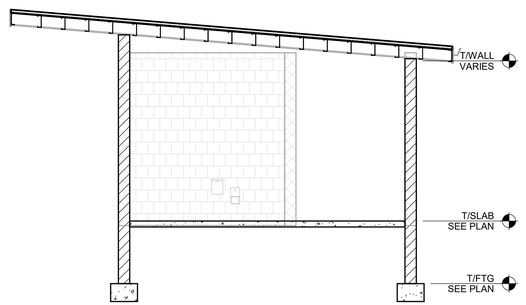
S110

v20



2 S200 PLATFORM ROOF FRAME ELEVATION

SCALE: 1/4" = 1'-0"



1 S200 RESTROOM

SCALE: 1/4" = 1'-0"

ELEVATION NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +100'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.

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PROFESSIONAL ENGINEER

08.27.2025

Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:

Sheet title:

FRAMING ELEVATIONS

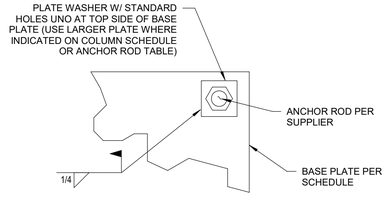
Architect's Project No: 2404-183

Date: SEPTEMBER 2025

Drawing No:

S200

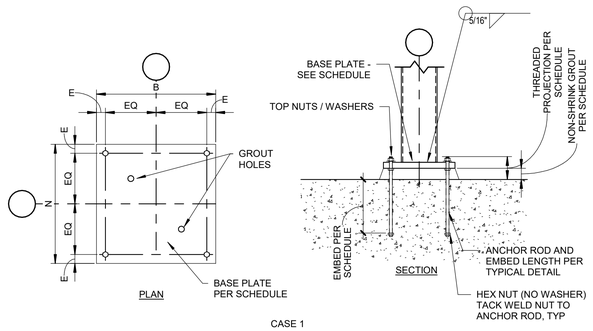
PLATE WASHER DIMENSIONS	
ANCHOR ROD DIA	REQD PLATE WASHER
≤ 3/4"	1/4x2-1/2x2-1/2
1"	3/8x3-1/2x3-1/2
> 1" TO 1.5"	1/2x3-1/2x3-1/2
> 1.5"	1/2x4x4



NOTES:
1. THIS DETAIL APPLIES AT ALL COLUMN ANCHOR RODS UNO.

TYPICAL WELDED PLATE WASHER DETAIL

4 / S500 SCALE: 3/4" = 1'-0"



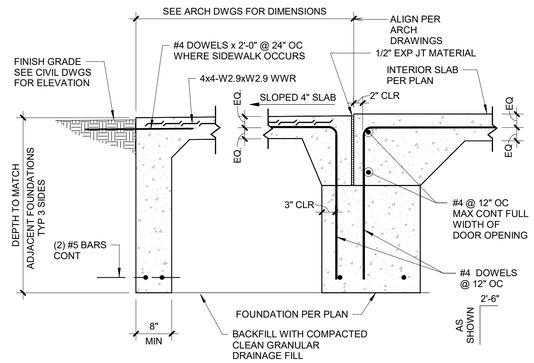
CASE 1

NOTES:
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SUFFICIENT TEMPORARY SUPPORT OF COLUMN BASE PLATES USING LEVELING PLATES, LEVELING NUTS / WASHERS OR STEEL SHIMS (OR COMBINATION THEREOF) PRIOR TO PLACEMENT AND CURING OF NON-SHRINK GROUT.

TYPICAL HSS COLUMN BASE DETAIL

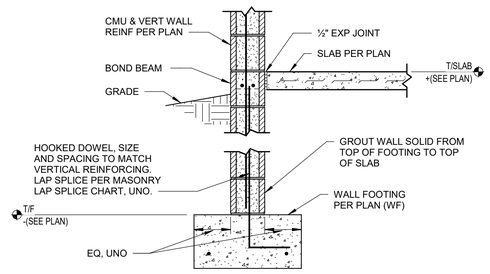
3 / S500 SCALE: 1" = 1'-0"

NOTE: WHERE REINFORCED CONCRETE OR CMU STEM WALLS OCCUR ADJACENT TO OPENINGS, DO NOT CONTINUE STEM WALL REINFORCEMENT THROUGH THE TURN-DOWN SLAB, UNO.



TYPICAL ENTRANCE PLATFORM

2 / S500 SCALE: 3/4" = 1'-0"

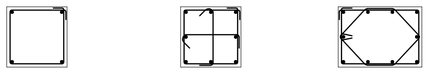


SECTION @ FOUNDATION WALL

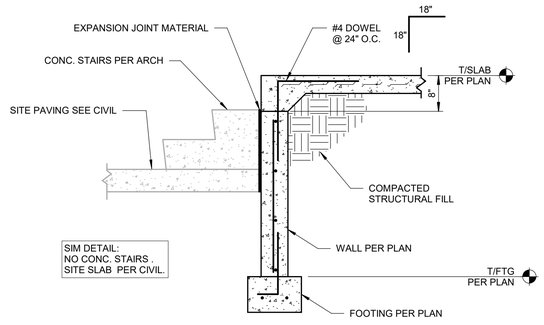
1 / S500 SCALE: 3/4" = 1'-0"

PIER (P) SCHEDULE								
	PIER SIZE		VERT REINF.		TIES			
MARK	WIDTH	LENGTH	NO.	SIZE	SIZE	SPA.	TYPE	COMMENTS
P24	2' - 0"	2' - 0"	8	6	3	1' - 0"	B	

TYPES:



NOTES:
1. Provide 2 inch concrete cover over ties.
2. Space first tie 2" from top of footing, last tie 2" from top of pier.
3. Provide (3) ties in top of pier, spacing = 2 1/2" on center.
4. Provide CRSI typical bar bend T5 for all ties.
5. Provide CRSI typical bar bend T9 additional ties for all piers with more than four vertical bars.
6. Provide 90° Hook for all ties per CRSI detailing standards.



PERIMETER WALL

5 / S500 SCALE: 3/4" = 1'-0"

WALL FOOTING SCHEDULE							
	Dimensions		Bottom Reinf				
			Longitudinal Reinf		Transverse Reinf		
Mark	Width	Thickness	No	Size	Size	Spa	Remarks
WF12	1' - 0"	8"	2	#4	NA	0"	
WF18	1' - 6"	1' - 0"	3	#5	NA	0"	

SLAB ON GRADE FLATNESS/LEVELNESS SCHEDULE				
CLASSIFICATION	OVERALL FF	OVERALL FL	MIN LOCAL FF	MIN LOCAL FL
CONVENTIONAL	20	15	15	10
MODERATELY FLAT	25	20	20	15
FLAT	35	25	25	15
VERY FLAT	45	35	30	25
SUPER FLAT	60	40	40	25

FLOOR TYPE/LOCATION	REQUIRED SLAB
EXPOSED WAREHOUSE, MANUFACTURING AREAS, UNO	FLAT
EXPOSED UTILITY/MECHANICAL AREAS, UNO	MODERATELY FLAT
FLOORS WITH CARPET, VCT FINISH, UNO	MODERATELY FLAT
FLOORS WITH POLISHED CONCRETE FINISH	FLAT
TILE UP TO 16" LONG DIMENSION, ≥ 1/4" GROUT JOINTS	FLAT
TILE UP TO 16" LONG DIMENSION, 3/16" GROUT JOINTS	VERY FLAT
TILE UP TO 16" LONG DIMENSION, 1/8" GROUT JOINTS	SUPER FLAT
TILE > 16" TO < 36" LONG DIMENSION, ≥ 1/4" GROUT JOINTS	VERY FLAT
TILE > 16" TO < 36" LONG DIMENSION, < 1/4" GROUT JOINTS	SUPER FLAT
TILE > 36" LONG DIMENSION	SUPER FLAT

NOTES:
1. GENERAL CONTRACTOR SHALL REVIEW ALL FLOOR FINISH REQUIREMENTS FOR THE PROJECT AND PROVIDE CONCRETE SLAB SURFACE FINISHES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFIED FLOOR FINISH MATERIALS. WHERE TOLERANCES FOR THE FLOOR FINISH MATERIALS DIFFER FROM THIS SCHEDULE, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
2. GENERAL CONTRACTOR SHALL COORDINATE WITH THE FINISH FLOORING SUPPLIER TO PROVIDE ALL NECESSARY REPAIR, GRINDING, AND/OR LEVELING OF THE CONCRETE SLAB TO ACCOMODATE ALL FLOOR FINISHES PRIOR TO INSTALLATION OF FINISH MATERIALS WITH NO ADDITIONAL COST TO THE PROJECT.

NON-COATED REINFORCING BAR DEVELOPMENT AND SPLICE LENGTHS

f'c = 3000 PSI				
BAR SIZE	Ld	Ldt	Lt	Ltt
#3	17	23	23	29
#4	22	29	29	38
#5	28	37	37	48
#6	33	43	43	56
#7	48	63	63	82
#8	55	72	72	93
#9	62	81	81	105
#10	69	90	90	117
#11	76	99	99	129

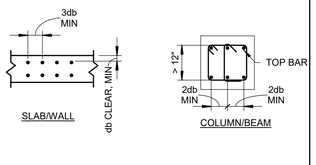
f'c = 4000 PSI				
BAR SIZE	Ld	Ldt	Lt	Ltt
#3	15	20	20	26
#4	19	25	25	33
#5	24	32	32	41
#6	29	38	38	50
#7	42	55	55	71
#8	48	63	63	82
#9	54	71	71	92
#10	60	78	78	102
#11	66	86	86	112

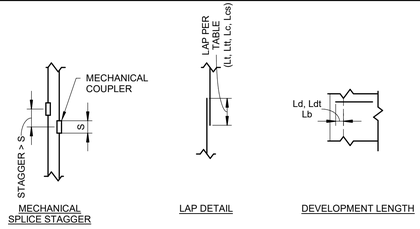
f'c = 5000 PSI				
BAR SIZE	Ld	Ldt	Lt	Ltt
#3	13	17	17	22
#4	17	23	23	29
#5	22	29	29	38
#6	26	34	34	44
#7	38	50	50	65
#8	43	56	56	73
#9	48	63	63	82
#10	54	71	71	92
#11	59	77	77	100

ALL CONCRETE STRENGTHS			
BAR SIZE	Lb	Lc	Lcs
#3	9	12	12
#4	11	13	12
#5	14	16	15
#6	17	19	17
#7	20	22	20
#8	22	25	23
#9	25	29	26
#10	28	32	29
#11	31	35	31

NOTES:
1. db = NOMINAL BAR DIAMETER
   Ld = TENSION DEVELOPMENT LENGTH
   Ldt = DEVELOPMENT LENGTH OF TOP BARS IN TENSION
   Lt = TENSION LAP SPLICE STRENGTH
   Ltt = TENSION LAP SPLICE LENGTH OF TOP BARS
   Lb = COMPRESSION DEVELOPMENT LENGTH
   Lc = TIED COLUMN LAP SPLICE IN COMPRESSION
   Lcs = SPIRAL COLUMN LAP SPLICE IN COMPRESSION
2. REBAR DEVELOPMENT/SPLICE LENGTHS ARE BASED ON ACI 318. REINFORCEMENT YIELD STRENGTH, Fy = 60 KSI.
3. "TOP BARS" = HORIZONTAL BEAM, MAT, OR SLAB REINFORCING WITH MORE THAN 12" CAST BELOW.
4. ALL SPLICES SHALL BE TENSION SPLICES, UNO.
5. LARGER DIAMETER SPLICE LENGTH GOVERN AT BAR SIZE TRANSITIONS.
6. FOR LIGHTWEIGHT CONCRETE MULTIPLY TABLE VALUES BY 1.33, UNO

TABLE VALUES SHALL BE MULTIPLIED BY 1.5 IF THE FOLLOWING CRITERIA ARE NOT MET:





TYPICAL REINFORCING BAR DEVELOPMENT/SPLICE DETAILS

COLUMN FOOTING (F) SCHEDULE										
	Ftg Dimensions			Top & Bottom Reinforcing						
				Short Direction			Long Direction			
Mark	Width	Length	Thickness	No	Size	Length	No	Size	Length	Remarks
F6	6' - 0"	6' - 0"	1' - 6"	6	7	5' - 6"	6	7	5' - 6"	

Column Footing Schedule Notes:
1. Reinforcing clearance at bottom and sides of footings = 3"
2. Use concrete brick of CRSI Class 3, CHCP wire bar supports @ 36".

COLUMN BASE PLATE SCHEDULE

MARK	PLATE SIZE	ANCHOR RODS			SHEAR LUG			BASE PLATE TYPE	REMARKS
	B" X N" X T"	QTY	DIA	EMBED	LENGTH	DEPTH	THICKNESS		
BP1	14" X 14" X 1"	4	1"	12"	N/A	N/A	N/A	CASE 1	

NOTES:
1. 50 KSI SHEAR LUGS U.N.O.
2. SEE 3/S500 FOR BASE PLATE TYPES.

ANCHOR ROD TABLE

ANCHOR ROD DIA	BASEPLATE HOLE DIA	MINIMUM WASHER SIZE	MINIMUM WASHER THICKNESS	MINIMUM PROJ ABOVE T/CONC	NON-SHRINK GROUT BED THK	MIN EDGE DISTANCE, E	REMARKS
3/4"	1 5/16"	2"	1/4"	8"	2"	1 1/2"	
1"	1 13/16"	3"	3/8"	8"	2"	2"	
1 1/4"	2 1/16"	3"	1/2"	10"	3"	2"	
1 1/2"	2 5/16"	3 1/2"	1/2"	10"	3"	2 1/2"	
1 3/4"	2 3/4"	4"	5/8"	10"	3"	3"	

NOTES:
1. ANCHOR RODS ARE ASTM F1554 GR. 36 UNO.
2. PROVIDE WELDED PLATE WASHERS IN ACCORDANCE WITH TYPICAL DETAIL AT ALL STEEL BRACED FRAMES AND MOMENT FRAMES, UNO.
3. AT CONTRACTORS OPTION, PROVIDE HEAD BOLT ASTM F1554 GR. 36 IN LIEU OF ANCHOR ROD.

CONCRETE MIX SCHEDULE

CONCRETE USAGE	28-DAY COMPRESSIVE STRENGTH (PSI)	MAX CEMENT REPLACEMENT (NOTE 3)	MAXIMUM W/CM RATIO	AIR CONTENT (PERCENT)	MAX AGGREGATE SIZE (INCHES)	NOTES
FOOTINGS	4,000	20%	0.55	0-3	1.5	
GRADE BEAMS, PIERS, FOUNDATION WALLS	4,000	20%	0.50	0-3	1	
EXTERIOR RETG WALLS, STOOPS AND PADS	4,000	20%	0.45	6 ± 1	1	
SLABS ON GRADE (6 INCHES OR LESS)	4,000	20%	0.48	0-3	1	

NOTES:
1. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL CONCRETE IS NORMAL WEIGHT AND CEMENT IS ASTM C150 TYPE 1, UNO. DO NOT USE LIGHTWEIGHT CONCRETE UNLESS SPECIFICALLY INDICATED.
3. ACCEPTABLE CEMENT REPLACEMENT MATERIAL, WHERE PERMITTED, SHALL BE FLY ASH, ASTM C618 TYCE C OR F, UNO.
4. TARGET SLUMP SHALL BE DETERMINED BY THE CONTRACTOR AS NEEDED FOR PROPER PLACEMENT.
5. WHERE NOTED, BLENDED AGGREGATE WITH ZONE 2 COARSENESS PER ACI 302 IS MANDATORY.
6. COORDINATE OF LOCATIONS OF ALL POLISHED CONCRETE SLABS (WHEN USED) AND REVIEW THE CONCRETE MIX REQUIREMENTS WITH THE POLISHED CONCRETE CONTRACTOR PRIOR TO SUBMITTAL OF CONCRETE MIXES. IF THE POLISHED CONCRETE CONTRACTOR REQUESTS TO DEVIATE FROM THE REQUIREMENTS OF THIS SCHEDULE, CONTACT THE STRUCTURAL ENGINEER TO REVIEW THE REQUESTS PRIOR TO SUBMISSION OF THE POLISHED CONCRETE MIX(ES).

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08.27.2025

Revisions:

#	Description	Date

Designed By: | Drawn By: | Checked By:

Sheet title:

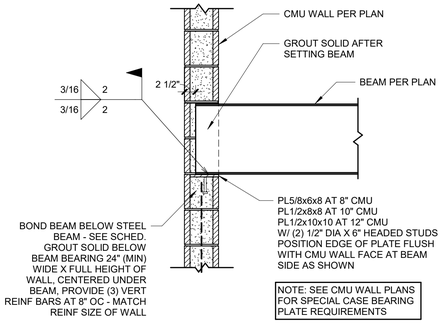
FOUNDATION SCHEDULES, SECTIONS, & DETAILS

Architect's Project No: 2404-183

Date: SEPTEMBER 2025

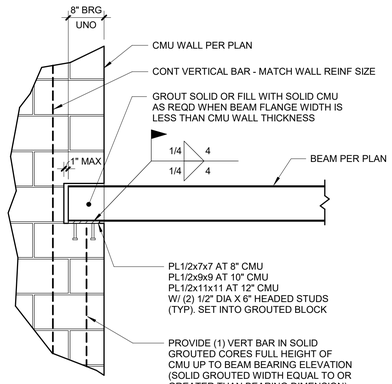
Drawing No:

S500



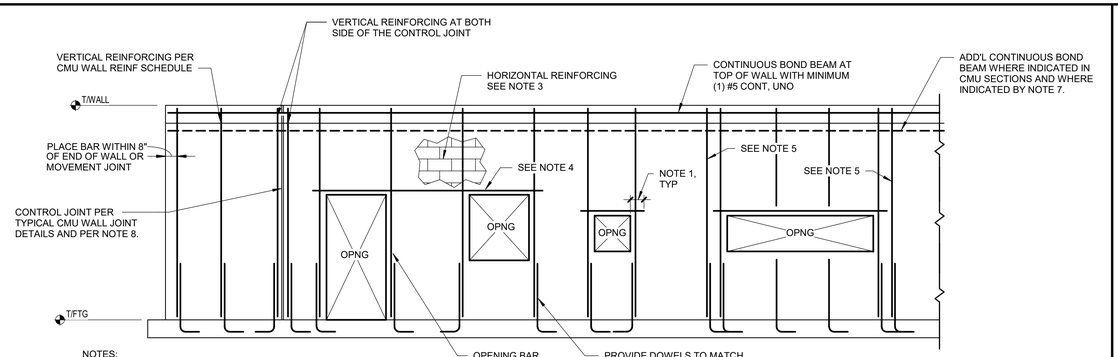
3 S510 TYPICAL BEAM BEARING PERPENDICULAR TO CMU WALL

SCALE: 3/4" = 1'-0"



2 S510 TYPICAL BEAM BEARING PARALLEL TO CMU WALL

SCALE: 3/4" = 1'-0"

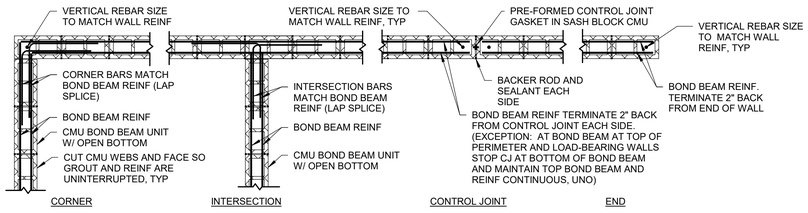


NOTES:

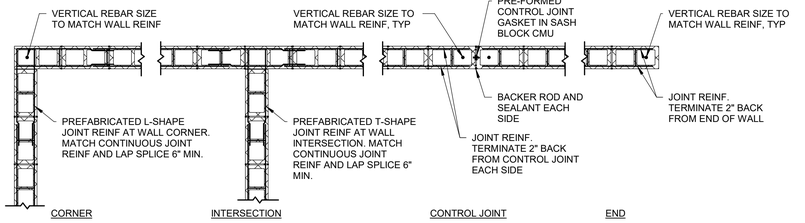
1. PROVIDE MINIMUM OF 8" BEARING AT BOND BEAM LINTELS, UNO.
2. PROVIDE FULL HEIGHT VERTICAL JAMB BAR EACH SIDE OF EVERY OPENING.
3. HORIZONTAL REINFORCING TO CONSIST OF 9 GAUGE LADDER TYPE WIRE REINFORCING SPACED AT 16" OC VERTICALLY, UNO.
4. PROVIDE CONTINUOUS BOND BEAM LINTELS OVER ADJACENT SAME-HEIGHT OPENINGS WITH LESS THAN 2'-8" OF MASONRY BETWEEN OPENINGS.
5. FOR OPENINGS THAT INTERRUPT 2 OR MORE REGULARLY SPACED VERTICAL BARS, PROVIDE ONE ADDITIONAL BAR AT 8" OC ADJACENT TO EACH JAMB FOR EVERY 2 BARS INTERRUPTED BY THE OPENING.
6. CONDITION SHOWN ON THIS DETAIL IS FOR BOND BEAM LINTELS. SEE LINTEL BEARING DETAILS FOR BAR PLACEMENT INFORMATION AT STEEL AND PRECAST LINTELS (WHEN PERMITTED).
7. FOR 6" TO 10" THICK WALLS, WHERE WALL IS GREATER THAN 14' TALL (MEASURED FROM TOP OF FOOTING) PROVIDE ADDITIONAL CONTINUOUS BOND BEAM AT 10'-0" ABOVE FINISH FLOOR AND AT 10'-0" OC MAX. FOR 12" THICK WALLS PROVIDE CONTINUOUS BOND BEAM AT 12'-0" OC MAX.
8. BOND BEAM REINFORCEMENT AT CONTROL JOINTS:
   A. FOR PERIMETER AND LOAD BEARING WALLS:
      a. EXTEND CJ FROM BOTTOM OF CMU WALL TO BOTTOM OF CONT BOND BEAM AT TOP OF WALL, UNO.
      b. EXTEND CJ FROM BOTTOM OF CMU WALL THROUGH BOND BEAM LOCATED NOT AT TOP OF WALL, UNO.
   B. FOR INTERIOR NON LOAD BEARING PARTITION WALLS: EXTEND CJ FULL HEIGHT OF WALL, UNO.

1 S510 TYPICAL REINFORCING AT CMU WALLS

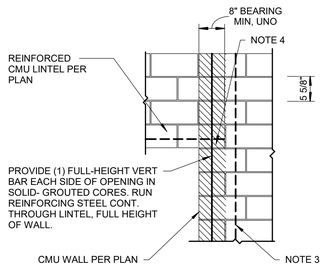
SCALE: 3/4" = 1'-0"



BOND BEAM DETAILS



JOINT REINFORCEMENT DETAILS



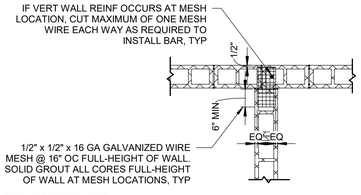
REINFORCED CMU LINTEL

NOTES:

1. INSTALL LINTELS TO PROVIDE EQUAL BEARING LENGTH EACH SIDE OF OPENING, UNO.
2. VERTICAL BARS SHALL BE THE SAME SIZE AS TYPICAL VERTICAL WALL REINFORCEMENT, UNO.
3. FOR OPENINGS THAT INTERRUPT 2 OR MORE REGULARLY SPACED VERTICAL BARS, PROVIDE ONE ADDITIONAL FULL-HEIGHT BAR @ 8" OC ADJACENT TO EACH JAMB FOR EVERY 2 BARS INTERRUPTED BY THE OPENING.
4. AT CMU LINTEL BEARING, CUT OPENING THROUGH BOTTOM OF U-SHAPE LINTEL BLOCK AS REQUIRED TO ALLOW REINFORCEMENT AND GROUT PLACEMENT AT LINTEL BEARING.

NOTES:

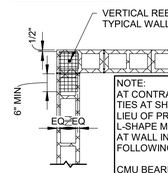
1. VERTICAL REINFORCEMENT INDICATED ON THIS DETAIL IS REQUIRED IN ADDITION TO SCHEDULED VERTICAL REINFORCEMENT, UNLESS SCHEDULED REINFORCEMENT ALREADY OCCURS AT THE INDICATED LOCATIONS.
2. PROVIDE LAPPED DOWELS INTO FOUNDATION AT ALL VERTICAL REINFORCEMENT.
3. PROVIDE HORIZONTAL JOINT REINFORCEMENT AND BOND BEAM REINFORCEMENT IN CMU WALLS IN ACCORDANCE WITH THE PROJECT DRAWINGS AND SPECIFICATIONS.



REQUIRED MESH SIZE:
4" CMU: 3" WIDE
6" CMU: 4" WIDE
8" CMU: 6" WIDE
10" CMU: 8" WIDE
12" CMU: 10" WIDE

MESH SHALL BE MWT WIRE MESH BY HOHMANN AND BARNARD OR EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER.

INTERSECTION



CORNER

NOTE:
AT CONTRACTOR'S OPTION, MESH WALL TIES AT SHOWN ABOVE MAY BE USED IN LIEU OF PREFABRICATED T-SHAPE AND L-SHAPE METAL JOINT REINFORCEMENT AT WALL INTERSECTIONS AT THE FOLLOWING LOCATIONS:

CMU BEARING WALLS AND PARTITION WALLS ONLY. NOT PERMITTED AT SHEAR WALLS.

ALTERNATE CMU WALL INTERSECTION TIE DETAIL (WIRE MESH)

5 S510 TYPICAL LINTEL BEARING DETAILS

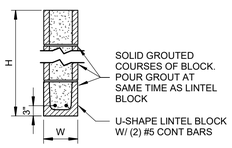
SCALE: 3/4" = 1'-0"

PRESCRIPTIVE LINTEL SCHEDULE

GENERAL NOTE: PROVIDE LINTELS IN THIS SCHEDULE FOR MASONRY OPENINGS WHERE SPECIFIC LINTELS (L#) ARE NOT OTHERWISE INDICATED. WHERE A SPECIFIC LINTEL (L#) IS INDICATED FOR A PARTICULAR OPENING, PROVIDE THE SPECIFIC LINTEL (L#). FOR OPENINGS BEYOND THE LIMITS AND/OR MATERIALS IDENTIFIED IN THIS SCHEDULE WHERE SPECIFIC LINTELS (L#) ARE NOT OTHERWISE INDICATED, CONTACT THE STRUCTURAL ENGINEER FOR REQUIRED LINTEL SIZE AND TYPE.

SECTION	CLEAR OPENING	TYPE	NOTES
W x 8 H (NOMINAL) CMU	UP TO 3'-4"	PLB	6", 8", 10", 12" CMU
CONTRACTORS OPTION: PROVIDE (2) L3-1/2x3-1/2x5/16 BACK-TO-BACK LOOSE STEEL LINTELS FOR DOOR OPENINGS.			

TYPES:



PLB

PRESCRIPTIVE LINTEL SCHEDULE NOTES:

1. ALL LINTELS BEAR 0'-8" ONTO SUPPORTING WALLS, UNO.
2. ALL STEEL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.

4 S510 TYPICAL CMU WALL JOINT DETAILS

SCALE: 1/2" = 1'-0"

MASONRY REINFORCING STEEL LAP SPLICE CHART

BAR SPLICE LENGTHS

BAR	UNCOATED BARS		EPOXY-COATED BARS	
	TYPE 1.0LD	TYPE 1.5LD	TYPE 1.0LD	TYPE 1.5LD
#3	20"	36"	29"	54"
#4	26"	48"	39"	72"
#5	32"	60"	48"	90"
#6	39"	72"	58"	108"
#7	45"	84"	68"	126"
#8	52"	96"	77"	144"
#9	58"	109"	87"	164"

NOTES:

1. ALL SPLICES ARE TYPE 1.0LD, UNO.
2. BARS LARGER THAN #9 ARE REQUIRED TO BE SPLICED BY MECHANICAL CONNECTORS, UNO.
3. SPLICES BASED ON Fs = 32,000 PSI AND f'm ≥ 1500 PSI.
4. ALL BARS ARE UNCOATED, UNO.
5. USE EPOXY-COATED BARS ONLY IN PARKING STRUCTURE MASONRY WHERE SPECIFICALLY INDICATED, UNO.

ROOF SHEATHING SCHEDULE

Mark	Sheathing				Fasteners				Remarks
	Grade	Thickness	Span Rating	Blocking	Nail	Boundry	Edge	Field	
RS01	STRUCTURAL 1	3/4"	48/24	YES	10d	6"	6"	1' - 0"	

Sheathing Schedule Notes:
1. Exposure Class: Exposure 1, UNO.
2. Sheathing Grade: Sheathing, UNO.
3. Span Rating: 24/16, UNO.
4. Fasteners: 10d common nails, UNO. Edge spacing applies to all panel edges.
5. Continue nailing patterns above and below all openings for length of shear wall.
6. Boundry spacing is around perimeter of floor and roof, at wall line.
7. Edge spacing is along each interior sheet support.
8. Field spacing is along each interior sheet support.
9. Blocking: If "YES", Required at panel edges. Provide horizontal or vertical blocking to match studs.
10. Floor sheathing to be tounge and groove.

MASONRY WALL SCHEDULE

Mark	Thickness	Vertical Wall Reinforcing			Horiz Reinf		Top of Wall Bond Beam Reinforcing			Remarks
		Reinforcing			Dowel Reinforcing					
		Size	Spa	Location	Size	Spa	Size	Spa	No. of	Size	
MW8	7 5/8"	#5	4' - 0"	Center	#5	4' - 0"	Ladder	1' - 4"	2	#5	NO CONTROL JOINTS

Masonry Wall Schedule Notes:
1. Provide 2" cover from outside face for bars in each face.
2. Grout all cores with rebar solid, unless solid grouted wall is shown.
3. Provide ladder type horizontal reinforcement at 16" o.c., unless noted otherwise. Side and cross rods shall be #9 wire, galvanized, see specifications. Cut joint reinforcement at control joints.
4. Provide bond beam with (2) #5 cont. at top of wall, unless noted otherwise. See schedule for additional bond beams. Where top of wall is not at masonry coursing, place bond beam at first full masonry block. See schedule for additional bond beams.

4TH AND MAIN PARK

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08.27.2025

Revisions:

#	Description	Date

Designed By: | Drawn By: | Checked By:

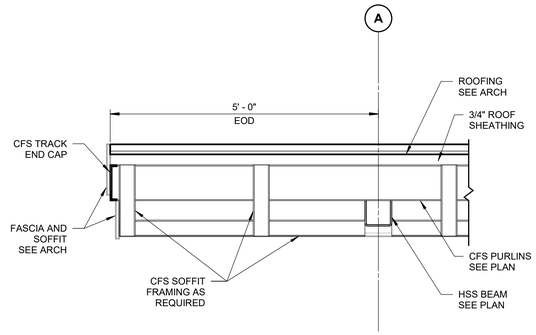
Sheet title:
MASONRY FRAMING SCHEDULES, SECTIONS, & DETAILS

Architect's Project No: 2404-183

Date: SEPTEMBER 2025

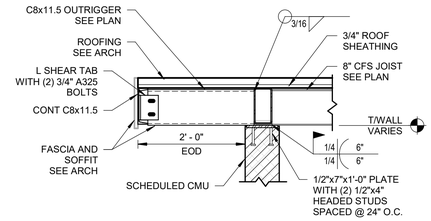
Drawing No: S510

V20



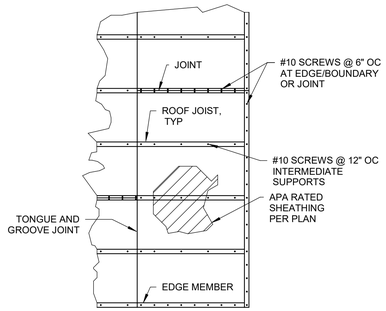
2 S520 TYPICAL PLATFORM RAKE FRAMING

SCALE: 3/4" = 1'-0"



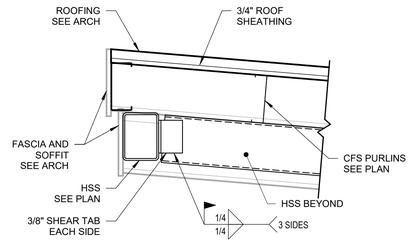
1 S520 TYPICAL RESTROOM RAKE FRAMING

SCALE: 3/4" = 1'-0"



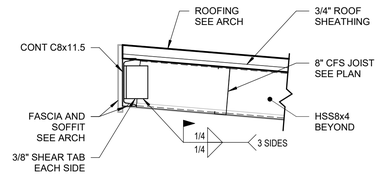
5 S520 TYPICAL SHEATHING AT ROOF

SCALE: 3/4" = 1'-0"



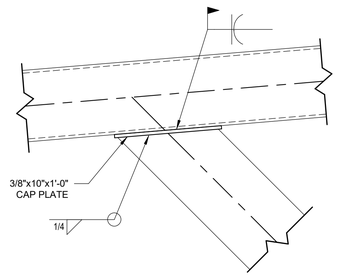
4 S520 TYPICAL PLATFORM HIGH/LOW ROOF EDGE FRAMING

SCALE: 1" = 1'-0"



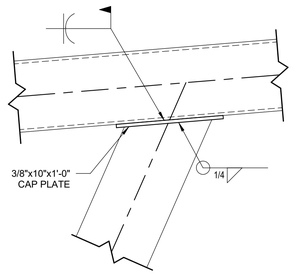
3 S520 TYPICAL RESTROOM HIGH/LOW ROOF EDGE FRAMING

SCALE: 1" = 1'-0"



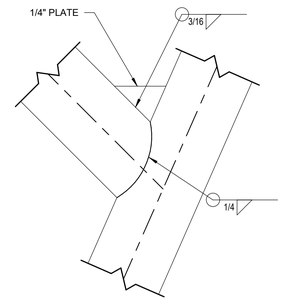
8 S520 HSS ROUND-TO-HSS RECTANGULAR CONNECTION

SCALE: 1 1/2" = 1'-0"



7 S520 HSS ROUND-TO-HSS RECTANGULAR CONNECTION

SCALE: 1 1/2" = 1'-0"



6 S520 HSS ROUND-TO-HSS ROUND CONNECTION

SCALE: 1 1/2" = 1'-0"

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Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:

Sheet title:

FRAMING DETAILS

Architect's Project No: 2404-183

Date: SEPTEMBER 2025

Drawing No:

S520

GENERAL ABBREVIATIONS

A	AMPERE	FDC	FIRE DEPARTMENT CONNECTION	OFD	OVERFLOW DRAIN
A/C	AIR CONDITIONING	FFA	FROM FLOOR ABOVE	OS&Y	OPEN SCREW & YOKE
ACC	ACCESSORIES	FFB	FROM FLOOR BELOW	OSD	OPEN SIGHT DRAIN
ACCU	AIR COOLED CONDENSING UNIT	FH	FIRE HOSE	OUT	OUTLET
AD	ACCESS DOOR OR AREA DRAIN (PER CONTEXT)	FHC	FIRE HOSE CABINET	OZ	OUNCE
AD	ACCESS DOOR	FIN	FINISHED	PBD	PARALLEL BLADE DAMPER
ADJ	ADJUSTABLE	FLR	FLOOR	PC	PLUMBING CONTRACTOR
ADP	APPARATUS DEW POINT	FLTR	FILTER	PCT	PERCENT
AFF	ABOVE FINISHED FLOOR	FO	FUEL OIL	PD	PRESSURE DROP
AHRI	AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE	FOP	FUEL OIL PUMP	PE	PNEUMATIC ELECTRIC
		FOR	FUEL OIL RETURN	PH	PHASE (ELECTRIC)
AHU	AIR HANDLING UNIT	FOS	FUEL OIL SUPPLY	PHC	PREHEAT COIL
AI	ANALOG SIGNAL INPUT	FP	FIRE PROTECTION	PICV	PRESSURE INDEPENDENT CONTROL VALVE
ALT	ALTERNATE	FPC	FIRE PROTECTION CONCTRACTOR		
AMB	AMBIENT	FPF	FINS PER FOOT	PIV	POST INDICATOR VALVE
ANSI	AMERICAN NATIONAL STANDARDS	FPM	FEET PER MINUTE	PLMB	PLUMBING
AO	ANALOG SIGNAL OUTPUT	FPVAV	FAN POWERED VARIABLE AIR VOLUME	PLT	PLASTER TRAP
AP	ACCESS PANEL	FRP	FIBERGLASS REINFORCED PLASTIC	PPH	POUNDS PER HOUR
APD	AIR PRESSURE DROP	FS	FLOW SWITCH	PPM	PARTS PER MILLION
APLV	APPLICATION PART LOAD VALUE	FS	FLOW SWITCH	PRESS	PRESSURE
ARCH	ARCHITECTURE/ARCHITECT	FSTAT	FREEZESTAT	PRI	PRIMARY
AS	AIR SEPARATOR	FT	FEET	PRV	PRESSURE REGULATING VALVE
ATM	ATMOSPHERE	FT-HD	HEAD IN FEET	PSC	PUMPED STEAM CONDENSATE
AUX	AUXILIARY	FURN	FURNACE, FURNISH	PSI	POUNDS PER SQUARE INCH
AV	ANALOG VALUE OR AIR VENT (PER CONTEXT)	FV	FACE VELOCITY	PSIA	POUNDS PER SQUARE INCH, ABSOLUTE
AVG	AVERAGE	G	NATURAL GAS	PSIG	POUNDS PER SQUARE INCH GAUGE
AW	ACID WASTE	GA	GAUGE	PVC	POLYVINYL CHLORIDE
BAL	BALANCE	GAL	GALLONS	QTY	QUANTITY
BDD	BACK DRAFT DAMPER	GALV	GALVANIZED	RA	RETURN AIR
BFP	BACKFLOW PREVENTER	GC	GENERAL CONTRACTOR	RAD	RADIATED
BFV	BUTTERFLY VALVE	GPD	GALLON PER DAY	RAT	RETURN AIR TEMPERATURE
BHP	BRAKE HORSEPOWER	GPH	GALLON PER HOUR	RC	REHEAT COIL
BI	BINARY SIGNAL INPUT	GPM	GALLONS PER MINUTE	RD	ROOF DRAIN
BLR	BOILER	GPS	GALLON PER SECOND	RDC	REDUCER
BMS	BUILDING MANAGEMENT SYSTEM	GR	GLYCOL WATER RETURN	REQ	REQUIRED
BO	BINARY SIGNAL OUTPUT	GS	GLYCOL WATER SUPPLY	REV	REVISION
BOB	BOTTOM OF BEAM	GT	GREASE TRAP	RH	RELATIVE HUMIDITY
BOD	BOTTOM OF DUCT	H	HEIGHT	RHG	REFRIGERANT HOT GAS
BOP	BOTTOM OF PIPE	H/C	HEATING COIL	RL	REFRIGERANT LIQUID
BS	BEAM SPACE	HB	HOSE BIBB	RLA	RUNNING LOAD AMPS
BTU	BRITISH THERMAL UNIT	HC	HOSE CLOSET	RM	ROOM
BTUH	BRITISH THERMAL UNITS PER HOUR	HD	HEAD	RND	ROUND
BV	BINARY VALUE	HEPA	HIGH EFFICIENCY PARTICULATE AIR	RO	READ ONLY
C/C	COOLING COIL	HOA	HAND, OFF, AUTO STATION	RPM	REVOLUTIONS PER MINUTE
CA	COMPRESSED AIR	HORIZ	HORIZONTAL	RS	REFRIGERANT SUCTION
CAP	CAPACITY	HOSP	HOSPITAL	RTU	ROOF TOP UNIT
CAV	CONSTANT AIR VOLUME	HP	HORSEPOWER	RW	READ / WRITE
CD	CONDENSATE DRAIN	HPS	HIGH PRESSURE STEAM	SA	SUPPLY AIR
CFH	CUBIC FEET PER HOUR	HR	HOUR	SAN	SANITARY
CFM	CUBIC FEET PER MINUTE	HS	HAND SINK	SCW	SOFT COLD WATER (DOMESTIC)
CFOI	CONTRACTOR FURNISHED/ OWNDER INSTALLED	HSTAT	HUMIDSTAT	SD	SMOKE DAMPER
CFS	CUBIC FEET PER SECOND	HTG	HEATING	SEC'N	SECTION
CHLR	CHILLER	HTR	HEATER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
CKT	CIRCUIT	HVAC	HEATING, VENTILATING & AIR CONDITIONING	SENS	SENSIBLE
CLG	CEILING	HW	HOT WATER	SF	SQUARE FOOT
CLG	COOLING DUCT (COLD DUCT)	HWB	HOT WATER BOILER	SG	SPECIFIC GRAVITY
CO	CLEAN OUT	HWR	HEATING HOT WATER RETURN OR HOT WATER RETURN (PER CONTEXT)	SH	SENSIBLE HEAT
CO2	CARBON DIOXIDE			SHR	SENSIBLE HEAT RATIO
COL	COLUMN	HWS	HEATING HOT WATER SUPPLY	SHT	SHEET
COND	CONDENSER UNIT	HZ	FREQUENCY	SHW	SOFT HOT WATER (DOMESTIC)
CONV	CONTROL VALVE	HZ	HERTZ	SK	SINK
COP	COEFFICIENT OF PERFORMANCE/ COPPER	IA	INSTRUMENT AIR	SND	SOUND
CR	CONDENSER WATER RETURN	I/O	INPUT/ OUTPUT	SOL	SOLENOID
CS	CONDENSER WATER SUPPLY	IAQ	INDOOR AIR QUALITY	SP	SUMP PIT
CSR	CURRENT SENSING RELAY	ID	INSIDE DIAMETER, INDIRECT WASTE	SP	STATIC PRESSURE
CT	COOLING TOWER	IE	INVERT ELEVATION	SPD	STATIC PRESSURE DIFFERENTIAL
CU	CONDENSING UNIT	IN	INCH/INCHES	SPT	STATIC PRESSURE TRANSMITTER
CU FT	CUBIC FEET	IN WC	INCHES, WATER COLUMN	SQ	SQUARE
CU IN	CUBIC INCH	INV	INVERT	SS	STAINLESS STEEL
CU YD	CUBIC YARD	IPLV	INTEGRATED PART-LOAD VALUE	STD	STANDARD
CV	CONTROL VALVE	ISP	INTERNAL STATIC PRESSURE	STM	STEAM, STORM
CW	COLD WATER	IWH	INSTANTANEOUS WATER HEATER	STP	STANDARD TEMPERATURE AND PRESSURE
CWR	CHILLED WATER RETURN	JS	JOIST SPACE	STR	MOTOR STARTER
CWS	CHILLED WATER SUPPLY	KEC	KITCHEN EQUIPMENT CONTRACTOR	SUCT	SUCTION
D	DEPTH	KW	KILOWATTS	SV	STEAM VENT
DB	DECIBEL(S)	KWH	KILOWATT HOUR	T&P	TEMPERATURE AND PRESSURE
DB	DRY BULB	L	LENGTH	T/S	TUB/ SHOWER
DBA	A-WEIGHTED DECIBELS	LA	LABORATORY AIR	TA	TRANSFER AIR
DEG	DEGREES	LAT	LEAVING AIR TEMPERATURE	TAB	TEST AND BALANCE (CONTRACTOR)
DEG F	DEGREES FAHRENHEIT	LAV	LAVATORY	TCC	TEMPERATURE CONTROL CONTRACTOR
DIA	DIAMETER	LB(S)	POUNDS	TCP	TEMPERATURE CONTROL PANEL
DIM	DIMENSION	LF	LINEAR FEET	TD	TEMPERATURE DIFFERENCE
DIV	DIVISION	LIQ	LIQUID	TD	THERMODYNAMIC OR TEMPERATURE DIFFERENTIAL (PER CONTEXT)
DN	DOWN	LNG	LIDUID NATURAL GAS		
DP	DIFFERENTIAL PRESSURE SENSOR	LOC	LOCATION	TDH	TOTAL DYNAMIC HEAD
DPS	DIFFERENTIAL PRESSURE SWITCH	LPG	LIQUIFIED PETROLEUM GAS	TDV	TRIPLE DUTY VALVE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	LPR	LOW PRESSURE STEAM RETURN	TEMP	TEMPERATURE
DR	DRAIN	LPS	LOW PRESSURE STEAM (SUPPLY)	TFA	TO FLOOR ABOVE
DS	DOWNSPOUT	LRA	LOCKED ROTOR AMPS	TFB	TO FLOOR BELOW
DTL	DETAIL	LWT	LEAVING WATER TEMPERATURE	TONS	TONS OF REFRIGERATION
DWG	DRAWING	MA	MEDICAL AIR	TPD	TOTAL PRESSURE DROP
DWV	DRAIN, WASTE AND VENT	MAT	MIXED AIR TEMPERATURE	TSP	TOTAL STATIC PRESSURE
EA	EXHAUST AIR OR EACH (PER CONTEXT)	MAX	MAXIMUM	TSTAT	THERMOSTAT
EAT	ENTERING AIR TEMPERATURE	MB	MOP BASIN	TYP	TYPICAL
EC	ELECTRICAL CONTRACTOR	MBH	BTU/ HR x 1,000	UC	UNDERCUT DOOR
ECON	ECONOMIZER	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR	UG	UNDERGROUND
EDH	ELECTRICAL DUCT HEATER			UH	UNIT HEATER
EDR	EQUIVALENT DIRECT RADIATION	MC	MECHANICAL CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
EER	EFFICIENCY RATIO	MCC	MOTOR CONTROL CENTER	UR	URINAL
EER	ENERGY EFFICIENCY RATIO	MECH	MECHANICAL	UV	UNIT VENTILATOR
EFF	EFFICIENCY	MERV	MINIMUM EFFICIENCY REPORTING VALUE (ASHRAE 52.2)	V	VENT, VOLTS (PER CONTEXT)
EL	ELEVATION			VA	VOLT AMPERE
ENCL	ENCLOSURE	MFR	MANUFACTURER	VAC	VACUUM
EOM	END OF MAIN STEAMTRAP	MH	MAN HOLE	VAV	VARIABLE AIR VOLUME
EQ	EQUAL	MIN	MINIMUM OR MINUTE (PER CONTEXT)	VD	VOLUME DAMPER (MANUAL)
EQUIP	EQUIPMENT	MPT	MALE PIPE THREAD	VEL	VELOCITY
ERD	EXISTING ROOF DRAIN	MTD	MOUNTED	VERT	VERTICAL
ESC	ESCUTCHEON	MV	MANUAL VENT	VFD	VARIABLE FREQUENCY DRIVE
ESP	EXTERNAL STATIC PRESSURE	MZ	MULTIZONE	VOL	VOLUME
EVAP	EVAPORATE (OR)	N	NITROGEN	VT	VITRIFIED TILE
EWB	ENTERING AIR WET BULB TEMPERATURE	NA	NOT APPLICABLE	VTR	VENT THROUGH THE ROOF
EWC	ELECTRIC WATER COOLER	NC	NORMALLY CLOSED OR NOISE CRITERIA (PER CONTEXT)	VVT	VARIABLE VOLUME TERMINAL
EWS	EYE WASH STATION			W	WASTE
EWT	ENTERING WATER TEMPERATURE	NIC	NOT IN CONTRACT	W	WATT OR WIDTH (PER CONTEXT)
EX	EXISTING	NO	NITROUS OXIDE, NORMALLY OPEN OR NUMBER (PER CONTEXT)	W/	WITH
EXCH	EXCHANGER			W/O	WITHOUT
EXH	EXHAUST	NPLV	NON-STANDARD PART LOAD VALUE	WB	WET BULB
EXIST	EXISTING	NPSH	NET POSITIVE SUCTION HEAD	WC	WATER CLOSET
EXP	EXPANSION	NR	NOISE REDUCTION	WCO	WALL CLEAN OUT
EXT	EXTERIOR	NRC	NOISE REDUCTION COEFFICIENT	WF	WASH FOUNTAIN
F°	FAHRENHEIT	NTS	NOT TO SCALE	WG	WATER GAUGE
F&BP	FACE AND BY-PASS	O	OXYGEN	WH	WALL HYDRANT
F&T	FLOAT AND THERMOSTATIC TRAP	OA	OUTSIDE AIR	WHA	WATER HAMMER ARRESTOR
F/SD	FIRE SMOKE DAMPER	OAT	OUTSIDE AIR TEMPERTURE	WM	WATER METER
F/A	FIRE ALARM	OBD	OPPOSED BLADE DAMPER	WPD	WATER PRESSURE DIFFERENTIAL
FA	FACE AREA	OC	ON CENTER	WT	WEIGHT
FC	FLEXIBLE CONNECTION	OD	OUTSIDE DIAMETER	WTR	WATER
FCO	FLOOR CLEANOUT	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED	WV	WASTE VENT
FCU	FAN COIL UNIT			YCO	YARD CLEANOUT
FD	FLOOR DRAIN, FIRE DAMPER	OF/OI	OWNER FURNISHED/ OWNER INSTALLED	YR	YEAR
FD	FIRE DAMPER			ZN	ZONE

EQUIPMENT DESIGNATIONS

AAV	AIR ADMITTANCE VALVE
AS	AIR SEPARATOR
BF	BUTTERFLY VALVE
BFP	BACKFLOW PREVENTER
BLR	BOILER
CA	AIR COMPRESSOR
CO	CLEANOUT
CP	CIRCULATING PUMP
CS	CLINICAL SINK
DC	DECHLORINATOR
DWH	TANKLESS WATER HEATER
ES	EMERGENCY SHOWER
EW	EYEWASH
EWC	ELECTRIC WATER COOLER
EWF	BOTTLE FILLING STATION
EWH	ELECTRIC WATER HEATER
FD	FLOOR DRAIN
FS	FLOOR SINK (PLUMBING)
FS	FLOW SWITCH (FIRE PROTECTION)
FT	FLOOR TROUGH
GWH	GAS WATER HEATER
GD	FOOD WASTE DISPOSER
GT	GREASE TRAP
HB	HOSE BIBB
HD	HOT WATER DISPENSER
HV	HOSE VALVE CONNECTION
HX	HEAT EXCHANGER
LAV	LAVATORY
MB	MOP BASIN
MV	THERMOSTATIC CONTROLLER
RAD	RADIATED
RB	REFRIGERATOR / ICE MAKER BOX
RCP	HOT WATER RECIRCULATION PUMP
RD	ROOF DRAIN
RH	ROOF HYDRANT
SH	SHOWER
SI	SOLIDS INTERCEPTOR
SK	SINK
ST	STORAGE TANK
SWH	SEMI-INSTANTANEOUS WATER HEATER
TD	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
TXT	THERMAL EXPANSION TANK
UR	URINAL
WB	WASTE HOSE BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WATER FILTER
WH	EXTERIOR HOSE BIBB
WS	WATER SOFTENER
YCO	YARD CLEANOUT

MEDICAL GAS

AAP	AREA ALARM PANEL
IAC	INSTRUMENT AIR COMPRESSOR
MAP	MASTER ALARM PANEL
MAS	MEDICAL AIR COMPRESSOR
MGO	MEDICAL GAS OUTLET
MVPS	MEDICAL VACUUM PUMP
NPCC	NITROGEN PRESSURE CONTROL CABINET
VB	VALVE BOX

PIPING SYSTEMS & ABBREVIATIONS

- COLD WATER PIPING
- HOT WATER PIPING
- HOT WATER RECIRCULATION PIPING
- VENT PIPING
- WASTE PIPING
- STM — STORM PIPING
- G — NATURAL GAS PIPING
- O — OXYGEN
- VAC — VACUUM
- MA — MEDICAL AIR
- IA — INSTRUMENT AIR
- N — NITROGEN
- NO — NITROUS OXIDE
- CO2 — CARBON DIOXIDE
- WAGD — WASTE ANESTHESIA GAS DISPOSAL
- CA — COMPRESSED AIR

FIRE PROTECTION SYMBOL LIST

SYMBOL:	DESCRIPTION:
	NEW PIPE
	NEW PIPE
	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	SHUTOFF VALVE
	AUTOMATIC DRAIN VALVE
FP	FIRE PROTECTION
	FLOW SWITCH
	BUTTERFLY VALVE
	MONITORING SWITCH
	OS&Y VALVE
	FIRE DEPARTMENT CONNECTION
	FIRE PUMP TEST HEADER
	GATE VALVE
	CHECK VALVE
	CHECK VALVE
	PRESSURE RELIEF VALVE
	ANGLE VALVE

PLUMBING / MEDICAL GAS LEGEND

SYMBOL:	DESCRIPTION:
OR	RISER DOWN (ELBOW)
OR	RISER UP (ELBOW)
OR	RISE OR DROP
OR	BRANCH - TOP CONNECTION
OR	BRANCH - BOTTOM CONNECTION
OR	BRANCH - SIDE CONNECTION
	PIPE CAP
	WATER HAMMER ARRESTOR
	DIRECTION OF FLOW IN PIPE
	CONNECTION POINT NEW TO EXISTING
	PIPE CONTINUATION
	FLOOR DRAIN
	BACKFLOW PREVENTER
	SHUTOFF VALVE
	CALIBRATED BALANCING VALVE
OR	CHECK VALVE
	NORMALLY CLOSED VALVE
	THROTTLING VALVE W/ LOCKING HANDLE
	TRIPLE DUTY VALVE (BALANCING, CHECK, SHUTOFF)
	PRESSURE REDUCING VALVE
M	2-WAY MODULATING CONTROL VALVE
M	3-WAY MODULATING CONTROL VALVE
	2-POSITION VALVE
	AUTOMATIC FLOW CONTROL VALVE
	SAFETY RELIEF VALVE
	SAFETY RELIEF VALVE
	UNION/FLANGE
	P & T PLUG
	REDUCER
	SUCTION DIFFUSER
	MANUAL AIR VENT
	DRAIN VALVE WITH HOSE CONNECTION AND CAP
	HIGH CAPACITY AIR VENT
M	METER
	RECIRCULATING PUMP
	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	THERMOMETER WITH WELL (FILLED TYPE)
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
	FLEXIBLE CONNECTION
T	STEAM TRAP
	AREA ALARM PANEL
	MEDICAL GAS VALVE BOX
	MEDICAL GAS OUTLET
	BALL-IN-WALL
	PRESSURE MONITOR
	PRESSURE TRANSDUCER

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STATE OF INDIANA — No. PE10505044 — REGISTERED PROFESSIONAL ENGINEER — Ryan W. Stenhouse

08/28/2025

Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:
CLB	CLB	RWS

Sheet title:

PLUMBING LEGENDS

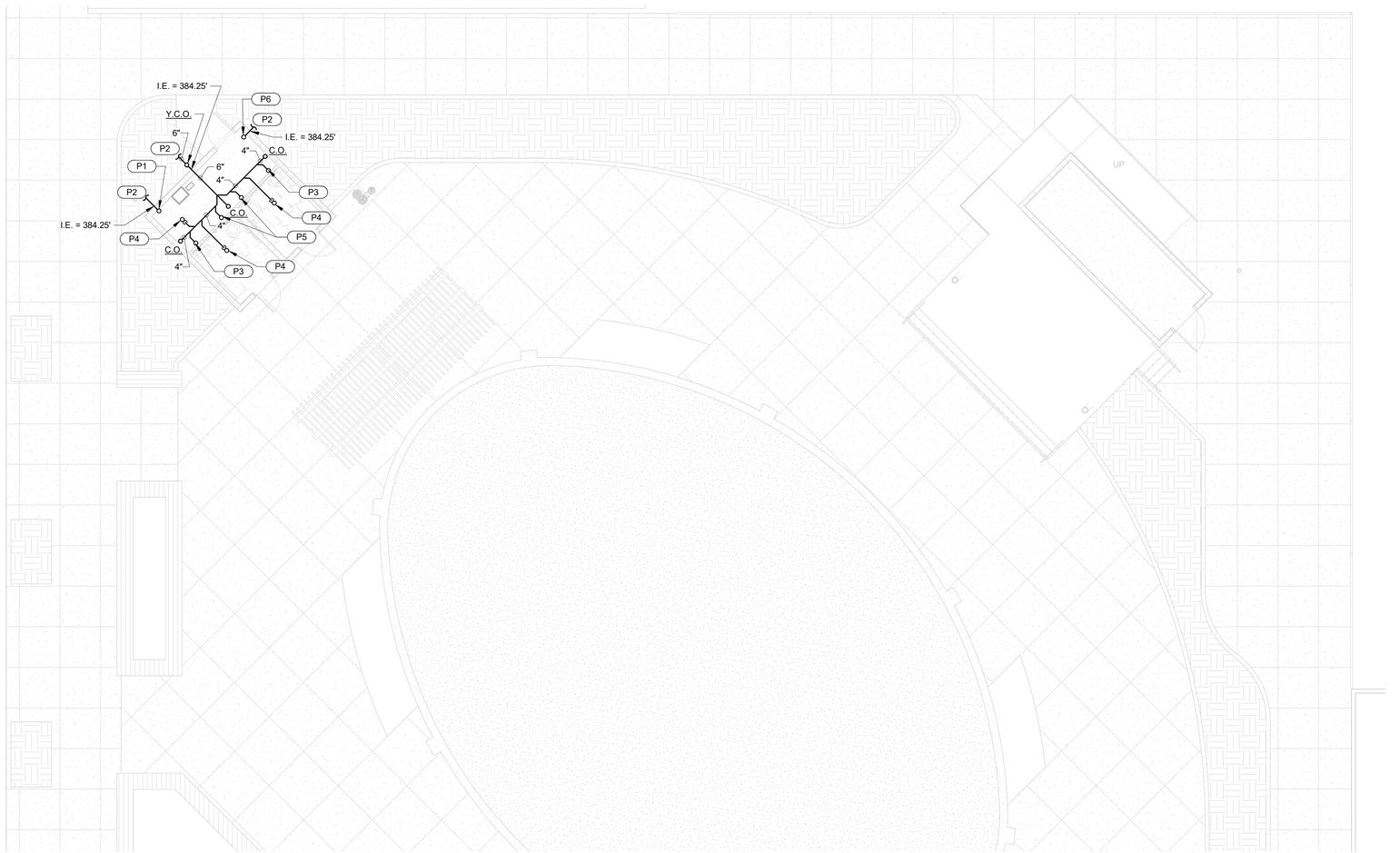
Architect's Project No: 2404-183

Date: August, 2025

Drawing No:

FP0.0

V20



FOUNDATION PLUMBING PLAN

1/8" = 1'-0"

GENERAL NOTES:

A. CONTRACTOR SHALL FIELD VERIFY CONDITIONS AT ALL POINTS OF CONNECTION PRIOR TO INSTALLATION.

B. ALL PIPING SHOWN ON DRAWINGS IS DIAGRAMMATIC. ADDITIONAL OFFSETS, WHICH MAY BE REQUIRED IN WASTE AND VENT RISERS, SHALL BE PROVIDED AS REQUIRED.

C. COORDINATE PIPING LAYOUT WITH HVAC, ELECTRICAL, LIGHTING AND OTHER SPECIALTIES TO AVOID CONFLICTS.

D. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING REGULATIONS, CODES, AND STANDARDS.
INDIANA BUILDING CODE
INDIANA MECHANICAL CODE
INDIANA PLUMBING CODE
SMACNA HVAC DUCT CONSTRUCTION STANDARDS
OSHA

E. PIPING SHALL NOT BE SUPPORTED FROM ROOF DECK. SUPPORT FROM STRUCTURE.

PLAN NOTES:

P1 1-1/2" CW UP.

P2 REFER TO CIVIL SITE PLANS FOR CONTINUATION.

P3 2" WASTE UP TO LAVATORY.

P4 2" WASTE UP TO FLOOR DRAIN.

P5 4" WASTE UP TO FIXTURE.

P6 3/4" CW UP.

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Sheet title:

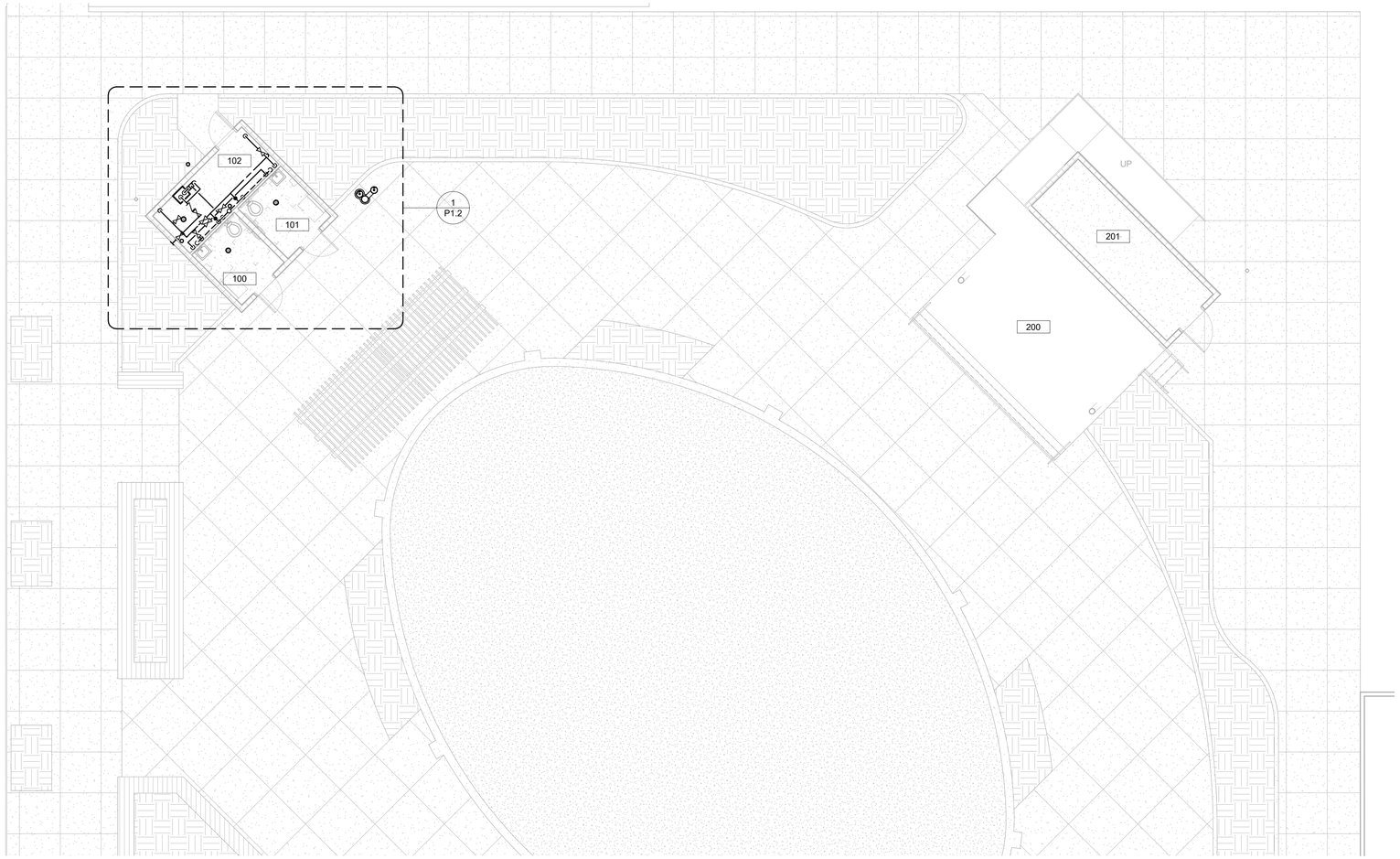
FOUNDATION PLUMBING PLAN

Architect's Project No: 2404-183

Date: August, 2025

Drawing No:

P1.1

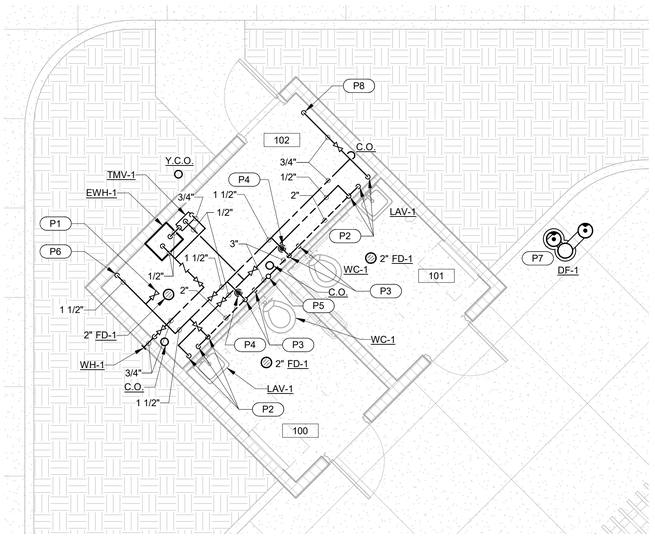


FIRST FLOOR PLUMBING PLAN

1/8" = 1'-0"

North

0' 2' 4' 8'



1 **RESTROOM BUILDING ENLARGED PLUMBING PLAN**

1/4" = 1'-0"

North

0' 1' 2' 4'

GENERAL NOTES:

A. INSTALL DRAIN VALVES AT LOW POINTS IN DOMESTIC PIPING AS REQUIRED TO FULLY DRAIN DOMESTIC WATER SYSTEM FOR WINTERIZATION. SLOPE PIPING TO LOW POINTS AS REQUIRED.

PLAN NOTES:

P1 PROVIDE A 1/2" VENT VALVE. SLOPE ALL WATER PIPING TO DRAIN BACK TO THE BUILDING SHUTOFF VALVE.

P2 1/2" CW, 1/2" HW, & 1-1/2" VENT DROP TO FIXTURE.

P3 1-1/2" CW & 2" VENT DROP TO FIXTURE.

P4 PROVIDE WATER HAMMER ARRESTOR "A" IN ACCESSIBLE LOCATION IN CHASE.

P5 3" VENT UP THROUGH ROOF.

P6 1-1/2" CW DOWN. PROVIDE SHUTOFF VALVE 24" A.F.F.

P7 REFER TO CIVIL SITE PLANS FOR PIPE ROUTING TO DF-1.

P8 3/4" CW DOWN.

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08/28/2025

Revisions:

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Sheet title:

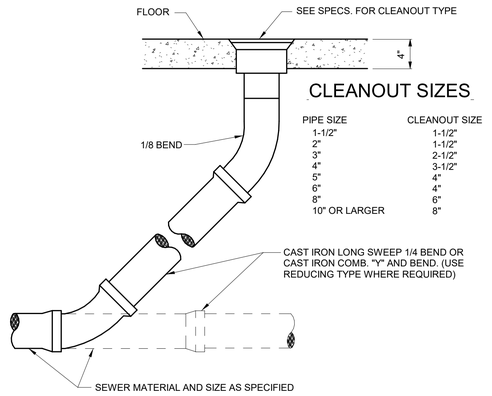
FIRST FLOOR PLUMBING PLAN

Architect's Project No: 2404-183

Date: August, 2025

Drawing No:

P1.2

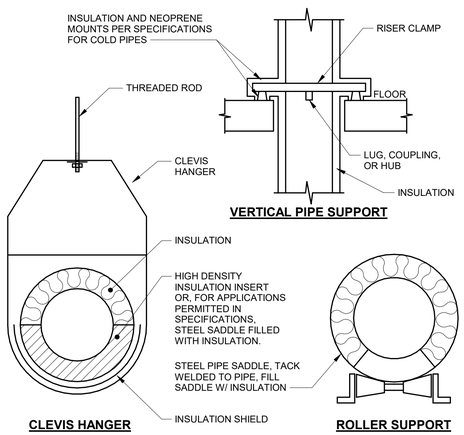


CLEANOUT SIZES

PIPE SIZE	CLEANOUT SIZE
1-1/2"	1-1/2"
2"	1-1/2"
3"	2-1/2"
4"	3-1/2"
5"	4"
6"	4"
8"	6"
10" OR LARGER	8"

TYPICAL CLEANOUT DETAIL

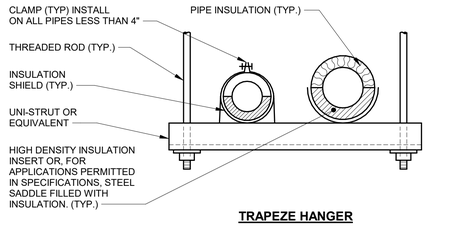
NO SCALE



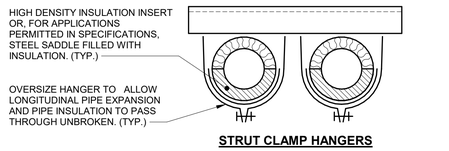
VERTICAL PIPE SUPPORT

CLEVIS HANGER

ROLLER SUPPORT



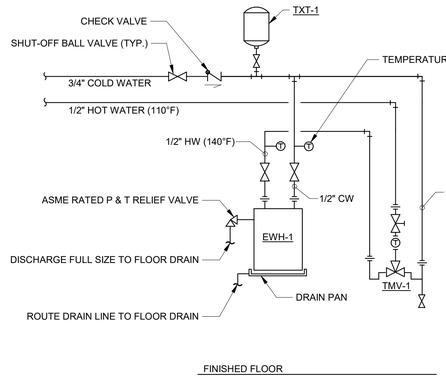
TRAPEZE HANGER



STRUT CLAMP HANGERS

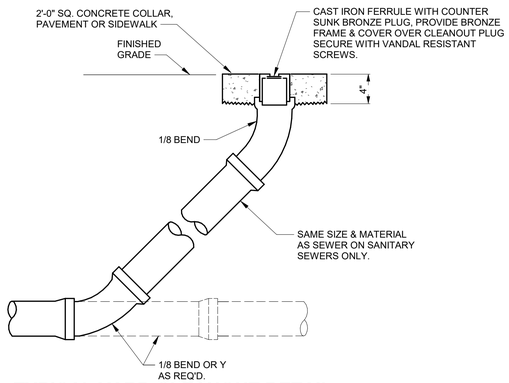
PIPE SUPPORT DETAILS

NO SCALE



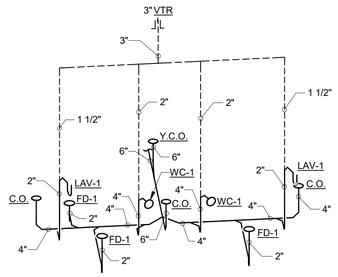
ELECTRIC WATER HEATER PIPING DETAIL

NO SCALE



TYPICAL YARD CLEANOUT DETAIL

NO SCALE



SANITARY RISER DIAGRAM

NO SCALE

PLUMBING MATERIAL LIST

THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.

CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.

CO

DESCRIPTION: FLOOR CLEANOUT - CAST IRON THREADED ADJUSTABLE HOUSING, FLANGED FERRULE WITH PLUG AND ROUND SECURED NICKEL BRONZE SCORIATED TOP.

MANUFACTURER & CATALOG NO.: ZURN Z-1400, SMITH 4000, WADE 6000, JOSAM 56000, WATTS CO-200, MIFAB C1100

DF-1

DESCRIPTION: DRINKING FOUNTAIN - OUTDOOR, GROUND MOUNT, FULLY EXPOSED FREEZE-RESISTANT, BARRIER-FREE ACCESSIBLE DRINKING FOUNTAIN WITH BOTTLE FILLER, BI-LEVEL PEDESTAL WITH PET FOUNTAIN. VANDAL RESISTANT BUBBLER, ONE-PIECE CONSTRUCTION, HEAVY DUTY STEEL POWDER COATED CONSTRUCTION. PROVIDE A DIRECT BURY 4400 FOUNTAIN ADAPTER. BURY DEPTH 24". PROVIDE WITH SUPPLY STOP AND DRAIN VALVE FOR WINTERIZING. PROVIDE WASTE P-TRAP. INSTALL PER MANUFACTURER RECOMMENDATION. COLOR AS SELECTED BY ARCHITECT.

MANUFACTURER & CATALOG NO.: ELKAY LK4420BF1UDBFRK

FD-1

DESCRIPTION: FLOOR DRAIN -6" DIAMETER NICKEL BRONZE ADJUSTABLE TOP, CAST IRON BODY, 3" OUTLET AND FLASHING COLLAR, DEEP SEAL P-TRAP AND TRAP PRIMER CONNECTION.

MANUFACTURER & CATALOG NO.: ZURN Z-415, SMITH 2005, WADE 1100, JOSAM 30000, WATTS FD-100, MIFAB F1100

LAV-1

DESCRIPTION: LAVATORY -WALL MOUNTED, WHITE VITREOUS CHINA, 4" HIGH CONTOURED BACKSPLASH, 20" X 18", FAUCET HOLES ON 4" CENTERS, 1-1/4" 17 GAUGE CAST BRASS "P" TRAP WITH CLEANOUT AND ESCUTCHEON. PROVIDE FLOOR MOUNTED LAVATORY CARRIER. MOUNT 34" FLOOR TO RIM.

MANUFACTURER & CATALOG NO.: AMERICAN STANDARD 0355.012, CRANE, ELJER, KOHLER

DESCRIPTION: LAVATORY TRIM - MANUAL METERING FAUCET WITH 0.5 GPM AERATOR AND OPEN GRID STRAINER W/ NO LIFT ROD. LOOSE KEY STOP VALVES WITH COMPRESSION FITTINGS AND WATER SUPPLIES AND RISERS; TRUEBRO HANDILAV GUARD INSULATION KIT.

MANUFACTURER & CATALOG NO.: AMERICAN STANDARD 1340.227

WC-1

DESCRIPTION: ACCESSIBLE WATER CLOSET - WALL HUNG, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, WATER SAVING, ELONGATED BOWL, 1-1/2" BACK SPUD. FURNISH WITH ZURN 500 POUND HEAVY DUTY FLOOR MOUNTED COMBINATION CARRIER FITTING SUPPORT. MOUNT 17" FLOOR TO RIM.

MANUFACTURER & CATALOG NO.: AMERICAN STANDARD "AFWALL" 3353101.020, CRANE, KOHLER, ELJER

DESCRIPTION: SEAT - WHITE EXTRA HEAVY OPEN FRONT INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC SELF-SUSTAINING SEAT WITH CHECK HINGE AND STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS.

MANUFACTURER & CATALOG NO.: BEMIS 3155C, CHURCH 3155C, BENEKE 533PC, OLSONITE 95CCAM

DESCRIPTION: FLUSH VALVE - REAR SPUD, SINGLE FLUSH, CONCEALED, MANUAL SPECIALTY HYDRAULIC, CHEMICAL RESISTANT MATERIAL, VACUUM BREAKER, WALL AND SPUD FLANGES.

1.6 GALLONS PER FLUSH. 3 YEAR WARRANTY. CONTRACTOR TO VERIFY EQUIPMENT REQUIREMENTS, MANUFACTURER RECOMMENDATIONS AND ROUGH-IN LOCATIONS.

MANUFACTURER & CATALOG NO.: SLOAN ROYAL 952-1.6

WH-1

DESCRIPTION: WALL HYDRANT - FREEZELESS WALL HYDRANT, VACUUM BREAKER, 3/4" MALE HOSE THREAD, BRASS VALVE BODY AND SEAT, STAINLESS STEEL STEM, CHROME FINISH DOOR AND BOX. FURNISH TWO TEE KEY OPERATORS FOR LOCKABLE DOOR. ASSE 1011 APPROVED AND LISTED. MOUNT AT 18" ABOVE GRADE.

MANUFACTURER & CATALOG NO.: WOODFORD B65, ZURN

MISCELLANEOUS EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	REMARKS
EWH-1	ELECTRIC WATER HEATER - 4 GALLON CAPACITY, 7 GPH RECOVERY AT 90°F RISE, 120/1, 12 AMP, 1.44 KW. MOUNT THE WATER HEATER ON WALL SHELF AND PROVIDE ALL BRACKETS AND HARDWARE REQUIRED FOR A COMPLETE INSTALLATION. SET THE WATER HEATER FOR 140°F.	BASED ON AO SMITH MODEL EPU-4
TMV-1	THERMOSTATIC MIXING VALVE - 7 GPM @ 5 PSI PRESSURE DROP, MEETS ASSE 1017, SET AT 110° F. DIAL THERMOMETER ON DISCHARGE, SHUTOFF VALVES. SECURE TO WALL NEXT TO EWH-1. 1/2" INLETS, 1/2" OUTLET.	BASED ON LEONARD MODEL TA-LF-F
TXT-1	THERMAL EXPANSION TANK - NON-ASME REPLACEABLE BLADDER TYPE, PRECHARGED, 150 PSI MAXIMUM DESIGN PRESSURE, 3/4" STAINLESS STEEL SYSTEM CONNECTION, STANDARD TIRE VALVE CHARGING CONNECTION, 2.1 GALLON ACCEPTABLE VOLUME, SET TANK PRESSURE TO 50 PSI.	BASED ON WESSELS MODEL 5TX

FIXTURE FINAL CONNECTION SCHEDULE

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	IPC 2006 DFU	IPC 2006 CWFU	IPC 2006 HWFU	REMARKS
2" FLOOR DRAIN	-	-	2"	-	2	-	-	
LAVATORY	1/2"	1/2"	2"	1 1/2"	1	1.5	1.5	
WALL HYDRANT	3/4"	-	-	-	-	2.5	-	
WATER CLOSET - FLUSH VALVE	1 1/2"	-	4"	2"	4	10	-	

NOTES:
1. SANITARY RISER UP IN WALL TO FIXTURE SHALL BE A MINIMUM OF 2".
2. SIZES SHOWN ARE MINIMUMS. SIZES SHOWN ON THE DRAWING THAT ARE LARGER THAN THE SIZES LISTED IN THE SCHEDULE SHALL DICTATE THE ROUGH-IN SIZE.

WATER HAMMER ARRESTOR SCHEDULE

MARK	I.P.S.	F.U. RATING	J.R. SMITH	JOSAM	ZURN
A	3/4"	1 - 11	5005	75001	100

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REGISTERED PROFESSIONAL ENGINEER No. PE10505044 STATE OF INDIANA RYAN W. EBERHART

Ryan W. Eberhart
08/28/2025

Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:
CLB	CLB	RWS

Sheet title:

PLUMBING DETAILS AND SCHEDULES

Architect's Project No: 2404-183

Date: August, 2025

Drawing No: P2.1

V20

GENERAL ABBREVIATIONS

A	AMPERE	FDC	FIRE DEPARTMENT CONNECTION	OFD	OVERFLOW DRAIN
A/C	AIR CONDITIONING	FFA	FROM FLOOR ABOVE	OS&Y	OPEN SCREW & YOKE
ACC	ACCESSORIES	FFB	FROM FLOOR BELOW	OSD	OPEN SIGHT DRAIN
ACCU	AIR COOLED CONDENSING UNIT	FH	FIRE HOSE	OUT	OUTLET
AD	ACCESS DOOR OR AREA DRAIN (PER CONTEXT)	FHC	FIRE HOSE CABINET	OZ	OUNCE
AD	ACCESS DOOR	FIN	FINISHED	PBD	PARALLEL BLADE DAMPER
ADJ	ADJUSTABLE	FLR	FLOOR	PC	PLUMBING CONTRACTOR
ADP	APPARATUS DEW POINT	FLTR	FILTER	PCT	PERCENT
AFF	ABOVE FINISHED FLOOR	FO	FUEL OIL	PD	PRESSURE DROP
AHRI	AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE	FOP	FUEL OIL PUMP	PE	PNEUMATIC ELECTRIC
		FOR	FUEL OIL RETURN	PH	PHASE (ELECTRIC)
AHU	AIR HANDLING UNIT	FOS	FUEL OIL SUPPLY	PHC	PREHEAT COIL
AI	ANALOG SIGNAL INPUT	FP	FIRE PROTECTION	PICV	PRESSURE INDEPENDENT CONTROL VALVE
ALT	ALTERNATE	FPC	FIRE PROTECTION CONCTRACTOR		
AMB	AMBIENT	FPF	FINS PER FOOT	PIV	POST INDICATOR VALVE
ANSI	AMERICAN NATIONAL STANDARDS	FPM	FEET PER MINUTE	PLMB	PLUMBING
AO	ANALOG SIGNAL OUTPUT	FPVAV	FAN POWERED VARIABLE AIR VOLUME	PLT	PLASTER TRAP
AP	ACCESS PANEL	FRP	FIBERGLASS REINFORCED PLASTIC	PPH	POUNDS PER HOUR
APD	AIR PRESSURE DROP	FS	FLOW SWITCH	PPM	PARTS PER MILLION
APLV	APPLICATION PART LOAD VALUE	FS	FLOW SWITCH	PRESS	PRESSURE
ARCH	ARCHITECTURE/ARCHITECT	FSTAT	FREEZESTAT	PRI	PRIMARY
AS	AIR SEPARATOR	FT	FEET	PRV	PRESSURE REGULATING VALVE
ATM	ATMOSPHERE	FT-HD	HEAD IN FEET	PSC	PUMPED STEAM CONDENSATE
AUX	AUXILIARY	FURN	FURNACE, FURNISH	PSI	POUNDS PER SQUARE INCH
AV	ANALOG VALUE OR AIR VENT (PER CONTEXT)	FV	FACE VELOCITY	PSIA	POUNDS PER SQUARE INCH, ABSOLUTE
AVG	AVERAGE	G	NATURAL GAS	PSIG	POUNDS PER SQUARE INCH GAUGE
AW	ACID WASTE	GA	GAUGE	PVC	POLYVINYL CHLORIDE
BAL	BALANCE	GAL	GALLONS	QTY	QUANTITY
BDD	BACK DRAFT DAMPER	GALV	GALVANIZED	RA	RETURN AIR
BFP	BACKFLOW PREVENTER	GC	GENERAL CONTRACTOR	RAD	RADIATED
BFV	BUTTERFLY VALVE	GPD	GALLON PER DAY	RAT	RETURN AIR TEMPERATURE
BHP	BRAKE HORSEPOWER	GPH	GALLON PER HOUR	RC	REHEAT COIL
BI	BINARY SIGNAL INPUT	GPM	GALLONS PER MINUTE	RD	ROOF DRAIN
BLR	BOILER	GPS	GALLON PER SECOND	RDC	REDUCER
BMS	BUILDING MANAGEMENT SYSTEM	GR	GLYCOL WATER RETURN	REQ	REQUIRED
BO	BINARY SIGNAL OUTPUT	GS	GLYCOL WATER SUPPLY	REV	REVISION
BOB	BOTTOM OF BEAM	GT	GREASE TRAP	RH	RELATIVE HUMIDITY
BOD	BOTTOM OF DUCT	H	HEIGHT	RHG	REFRIGERANT HOT GAS
BOP	BOTTOM OF PIPE	H/C	HEATING COIL	RL	REFRIGERANT LIQUID
BS	BEAM SPACE	HB	HOSE BIBB	RLA	RUNNING LOAD AMPS
BTU	BRITISH THERMAL UNIT	HC	HOSE CLOSET	RM	ROOM
BTUH	BRITISH THERMAL UNITS PER HOUR	HD	HEAD	RND	ROUND
BV	BINARY VALUE	HEPA	HIGH EFFICIENCY PARTICULATE AIR	RO	READ ONLY
C/C	COOLING COIL	HOA	HAND, OFF, AUTO STATION	RPM	REVOLUTIONS PER MINUTE
CA	COMPRESSED AIR	HORIZ	HORIZONTAL	RS	REFRIGERANT SUCTION
CAP	CAPACITY	HOSP	HOSPITAL	RTU	ROOF TOP UNIT
CAV	CONSTANT AIR VOLUME	HP	HORSEPOWER	RW	READ / WRITE
CD	CONDENSATE DRAIN	HPS	HIGH PRESSURE STEAM	SA	SUPPLY AIR
CFH	CUBIC FEET PER HOUR	HR	HOUR	SAN	SANITARY
CFM	CUBIC FEET PER MINUTE	HS	HAND SINK	SCW	SOFT COLD WATER (DOMESTIC)
CFOI	CONTRACTOR FURNISHED/ OWNDER INSTALLED	HSTAT	HUMIDSTAT	SD	SMOKE DAMPER
CFS	CUBIC FEET PER SECOND	HTG	HEATING	SEC'N	SECTION
CHLR	CHILLER	HTR	HEATER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
CKT	CIRCUIT	HVAC	HEATING, VENTILATING & AIR CONDITIONING	SENS	SENSIBLE
CLG	CEILING	HW	HOT WATER	SF	SQUARE FOOT
CLG	COOLING DUCT (COLD DUCT)	HWB	HOT WATER BOILER	SG	SPECIFIC GRAVITY
CO	CLEAN OUT	HWR	HEATING HOT WATER RETURN OR HOT WATER RETURN (PER CONTEXT)	SH	SENSIBLE HEAT
CO2	CARBON DIOXIDE			SHR	SENSIBLE HEAT RATIO
COL	COLUMN	HWS	HEATING HOT WATER SUPPLY	SHT	SHEET
COND	CONDENSER UNIT	HZ	FREQUENCY	SHW	SOFT HOT WATER (DOMESTIC)
CONV	CONTROL VALVE	HZ	HERTZ	SK	SINK
COP	COEFFICIENT OF PERFORMANCE/ COPPER	IA	INSTRUMENT AIR	SND	SOUND
CR	CONDENSER WATER RETURN	I/O	INPUT/ OUTPUT	SOL	SOLENOID
CS	CONDENSER WATER SUPPLY	IAQ	INDOOR AIR QUALITY	SP	SUMP PIT
CSR	CURRENT SENSING RELAY	ID	INSIDE DIAMETER, INDIRECT WASTE	SP	STATIC PRESSURE
CT	COOLING TOWER	IE	INVERT ELEVATION	SPD	STATIC PRESSURE DIFFERENTIAL
CU	CONDENSING UNIT	IN	INCH/INCHES	SPT	STATIC PRESSURE TRANSMITTER
CU FT	CUBIC FEET	IN WC	INCHES, WATER COLUMN	SQ	SQUARE
CU IN	CUBIC INCH	INV	INVERT	SS	STAINLESS STEEL
CU YD	CUBIC YARD	IPLV	INTEGRATED PART-LOAD VALUE	STD	STANDARD
CV	CONTROL VALVE	ISP	INTERNAL STATIC PRESSURE	STM	STEAM, STORM
CW	COLD WATER	IWH	INSTANTANEOUS WATER HEATER	STP	STANDARD TEMPERATURE AND PRESSURE
CWR	CHILLED WATER RETURN	JS	JOIST SPACE	STR	MOTOR STARTER
CWS	CHILLED WATER SUPPLY	KEC	KITCHEN EQUIPMENT CONTRACTOR	SUCT	SUCTION
D	DEPTH	KW	KILOWATTS	SV	STEAM VENT
DB	DECIBEL(S)	KWH	KILOWATT HOUR	T&P	TEMPERATURE AND PRESSURE
DB	DRY BULB	L	LENGTH	T/S	TUB/ SHOWER
DBA	A-WEIGHTED DECIBELS	LA	LABORATORY AIR	TA	TRANSFER AIR
DEG	DEGREES	LAT	LEAVING AIR TEMPERATURE	TAB	TEST AND BALANCE (CONTRACTOR)
DEG F	DEGREES FAHRENHEIT	LAV	LAVATORY	TCC	TEMPERATURE CONTROL CONTRACTOR
DIA	DIAMETER	LB(S)	POUNDS	TCP	TEMPERATURE CONTROL PANEL
DIM	DIMENSION	LF	LINEAR FEET	TD	TEMPERATURE DIFFERENCE
DIV	DIVISION	LIQ	LIQUID	TD	THERMODYNAMIC OR TEMPERATURE DIFFERENTIAL (PER CONTEXT)
DN	DOWN	LNG	LIDUID NATURAL GAS		
DP	DIFFERENTIAL PRESSURE SENSOR	LOC	LOCATION	TDH	TOTAL DYNAMIC HEAD
DPS	DIFFERENTIAL PRESSURE SWITCH	LPG	LIQUIFIED PETROLEUM GAS	TDV	TRIPLE DUTY VALVE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	LPR	LOW PRESSURE STEAM RETURN	TEMP	TEMPERATURE
DR	DRAIN	LPS	LOW PRESSURE STEAM (SUPPLY)	TFA	TO FLOOR ABOVE
DS	DOWNSPOUT	LRA	LOCKED ROTOR AMPS	TFB	TO FLOOR BELOW
DTL	DETAIL	LWT	LEAVING WATER TEMPERATURE	TONS	TONS OF REFRIGERATION
DWG	DRAWING	MA	MEDICAL AIR	TPD	TOTAL PRESSURE DROP
DWV	DRAIN, WASTE AND VENT	MAT	MIXED AIR TEMPERATURE	TSP	TOTAL STATIC PRESSURE
EA	EXHAUST AIR OR EACH (PER CONTEXT)	MAX	MAXIMUM	TSTAT	THERMOSTAT
EAT	ENTERING AIR TEMPERATURE	MB	MOP BASIN	TYP	TYPICAL
EC	ELECTRICAL CONTRACTOR	MBH	BTU/ HR x 1,000	UC	UNDERCUT DOOR
ECON	ECONOMIZER	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR	UG	UNDERGROUND
EDH	ELECTRICAL DUCT HEATER			UH	UNIT HEATER
EDR	EQUIVALENT DIRECT RADIATION	MC	MECHANICAL CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
EER	EFFICIENCY RATIO	MCC	MOTOR CONTROL CENTER	UR	URINAL
EER	ENERGY EFFICIENCY RATIO	MECH	MECHANICAL	UV	UNIT VENTILATOR
EFF	EFFICIENCY	MERV	MINIMUM EFFICIENCY REPORTING VALUE (ASHRAE 52.2)	V	VENT, VOLTS (PER CONTEXT)
EL	ELEVATION			VA	VOLT AMPERE
ENCL	ENCLOSURE	MFR	MANUFACTURER	VAC	VACUUM
EOM	END OF MAIN STEAMTRAP	MH	MAN HOLE	VAV	VARIABLE AIR VOLUME
EQ	EQUAL	MIN	MINIMUM OR MINUTE (PER CONTEXT)	VD	VOLUME DAMPER (MANUAL)
EQUIP	EQUIPMENT	MPT	MALE PIPE THREAD	VEL	VELOCITY
ERD	EXISTING ROOF DRAIN	MTD	MOUNTED	VERT	VERTICAL
ESC	ESCUTCHEON	MV	MANUAL VENT	VFD	VARIABLE FREQUENCY DRIVE
ESP	EXTERNAL STATIC PRESSURE	MZ	MULTIZONE	VOL	VOLUME
EVAP	EVAPORATE (OR)	N	NITROGEN	VT	VITRIFIED TILE
EWB	ENTERING AIR WET BULB TEMPERATURE	NA	NOT APPLICABLE	VTR	VENT THROUGH THE ROOF
EWC	ELECTRIC WATER COOLER	NC	NORMALLY CLOSED OR NOISE CRITERIA (PER CONTEXT)	VVT	VARIABLE VOLUME TERMINAL
EWS	EYE WASH STATION			W	WASTE
EWT	ENTERING WATER TEMPERATURE	NIC	NOT IN CONTRACT	W	WATT OR WIDTH (PER CONTEXT)
EX	EXISTING	NO	NITROUS OXIDE, NORMALLY OPEN OR NUMBER (PER CONTEXT)	W/	WITH
EXCH	EXCHANGER			W/O	WITHOUT
EXH	EXHAUST	NPLV	NON-STANDARD PART LOAD VALUE	WB	WET BULB
EXIST	EXISTING	NPSH	NET POSITIVE SUCTION HEAD	WC	WATER CLOSET
EXP	EXPANSION	NR	NOISE REDUCTION	WCO	WALL CLEAN OUT
EXT	EXTERIOR	NRC	NOISE REDUCTION COEFFICIENT	WF	WASH FOUNTAIN
F°	FAHRENHEIT	NTS	NOT TO SCALE	WG	WATER GAUGE
F&BP	FACE AND BY-PASS	O	OXYGEN	WH	WALL HYDRANT
F&T	FLOAT AND THERMOSTATIC TRAP	OA	OUTSIDE AIR	WHA	WATER HAMMER ARRESTOR
F/SD	FIRE SMOKE DAMPER	OAT	OUTSIDE AIR TEMPERTURE	WM	WATER METER
F/A	FIRE ALARM	OBD	OPPOSED BLADE DAMPER	WPD	WATER PRESSURE DIFFERENTIAL
FA	FACE AREA	OC	ON CENTER	WT	WEIGHT
FC	FLEXIBLE CONNECTION	OD	OUTSIDE DIAMETER	WTR	WATER
FCO	FLOOR CLEANOUT	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED	WV	WASTE VENT
FCU	FAN COIL UNIT			YCO	YARD CLEANOUT
FD	FLOOR DRAIN, FIRE DAMPER	OF/OI	OWNER FURNISHED/ OWNER INSTALLED	YR	YEAR
FD	FIRE DAMPER			ZN	ZONE

EQUIPMENT DESIGNATIONS

AB	AIR BLENDER SCHEDULE
AC	CRAC UNIT
ACC	AIR COOLED CHILLER
AHU	AIR HANDLING UNIT
AHUOA	ENERGY RECOVERY UNIT SCHEDULE
AS	AIR SEPARATOR
AT	AIR TERMINAL UNIT
AT	AIR TERMINAL UNIT – ELECTRIC REHEAT
BCC	VRF BRANCH CIRCUIT CONTROLLER
BLR	BOILER
BT	BUFFER TANK
CA	AIR COMPRESSOR
CAB	CABINET HEATER
CC	COILING COIL
CHLR	CHILLER
CON	CONVERTOR
CT	COOLING TOWER
CU	CONDENSING UNIT
D	MOTORIZED DAMPER
DA	DEAERATOR
DOAS	DEDICATED OUTSIDE AIR UNIT
EF	EXHAUST FAN
ET	EXPANSION TANK
F	FILTER
FC	FLUID COOLER
FCU	FAN COIL UNIT
FH	FILTER HOUSING
FPAT	FAN POWER AIR TERMINAL
FT	FLASH TANK
FTR	ELECTRIC FINTUBE RADIATOR
GF	GAS FURNACE
GMU	GLYCOL MAKEUP UNIT
HX	HEAT EXCHANGER
IU	VRF INDOOR UNIT
OAH	GRAVITY HOOD
OU	VRF OUTDOOR UNIT
PC	PREHEAT COIL
PRV	PRESSURE REDUCING VALVE
RTU	ROOFTOP UNIT
SA	SOUND ATTENUATOR
SCP	STEAM CONDENSATE PUMP
SE	BOILER STACK ECONOMIZER
SF	SHOT FEEDER
SRV	SAFETY RELIEF VALVE
ST	SURGE TANK
UH	UNIT HEATER

PUMPS

CHWP	CHILLED WATER PUMP
CWP	CONDENSER WATER PUMP
FP	FIRE PUMP
GWP	PUMPS-G
HP	WATER TO AIR HEAT PUMP
HWP	HOT WATER PUMP
JP	JOCKEY PUMP
WHP	WATER TO WATER HEAT PUMP

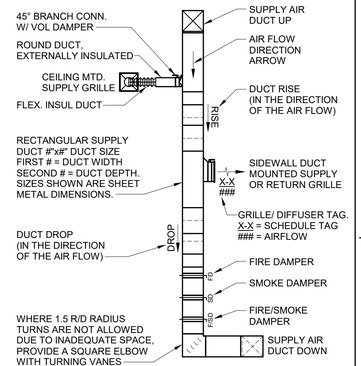
PIPING/ TEMPERATURE CONTROL LEGEND

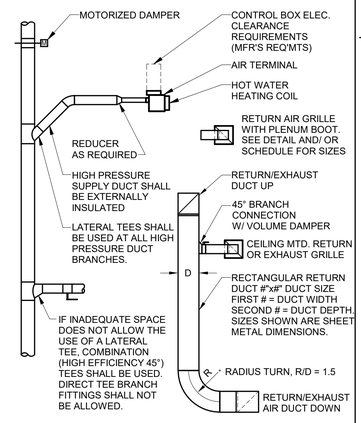
SYMBOL:	DESCRIPTION:	SYMBOL:	DESCRIPTION:
M	ACTUATOR / MOTOR	OR	RISER DOWN (ELBOW)
AMS	AIRFLOW MEASURING STATION	OR	RISER UP (ELBOW)
CA	CONDENSATE ALARM UNIT	OR	RISE OR DROP
CSR	CURRENT SENSING RELAY	OR	BRANCH - TOP CONNECTION
		OR	BRANCH - BOTTOM CONNECTION
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	OR	BRANCH - BOTTOM CONNECTION
			BRANCH - BOTTOM CONNECTION
DPS	DIFFERENTIAL PRESSURE SWITCH (ADJ.)		DIRECTION OF FLOW IN PIPE
			CONNECTION POINT NEW TO EXISTING
SD	SMOKE DETECTOR (BY OTHERS)		PIPE CONTINUATION
		M	METER
FM	FLOW METER		PUMP
			PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
FS	FLOW SWITCH		THERMOMETER WITH WELL (FILLED TYPE)
FT	FLOW TRANSMITTER		"WYE" - STRAINER
HE	HUMIDITY ELEMENT		"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
			FLEXIBLE CONNECTION
STR	MOTOR STARTER		CALIBRATED BALANCING VALVE
SP	STATIC PRESSURE SENSOR		SHUTOFF VALVE
			NORMALLY CLOSED VALVE
HL SP	STATIC PRESSURE SENSOR / SWITCH		THROTTLING VALVE W/ LOCKING HANDLE
			TRIPLE DUTY VALVE (BALANCING, CHECK, SHUTOFF)
STE	SPACE TEMPERATURE ELEMENT		PRESSURE REDUCING VALVE
TE	TEMPERATURE ELEMENT (DUCT MOUNTED)	M	2-WAY MODULATING CONTROL VALVE
		M	3-WAY MODULATING CONTROL VALVE
TE	TEMPERATURE SENSOR WITH AVERAGING ELEMENT		2-POSITION VALVE
			AUTOMATIC FLOW CONTROL VALVE
			SAFETY RELIEF VALVE
TLL	LOW LIMIT SAFETY THERMOSTAT		SAFETY RELIEF VALVE
			CHECK VALVE
TS	TEMPERATURE SENSOR		UNION/FLANGE
			P & T PLUG
VFD	VARIABLE FREQUENCY DRIVE		REDUCER
VP	VELOCITY PRESSURE SENSOR		SUCTION DIFFUSER
CO_2	WALL MOUNTED CARBON DIOXIDE SENSOR		MANUAL AIR VENT
H	WALL MOUNTED HUMIDISTAT		DRAIN VALVE WITH HOSE CONNECTION AND CAP
M	MOTOR		HIGH CAPACITY AIR VENT
T	WALL MOUNTED THERMOSTAT	T	TEMPERATURE SENSOR, A.I.
T/H	WALL MOUNTED COMBINATION THERMOSTAT / HUMIDISTAT	FS	FLOW SWITCH, B.I.
	FAN	BFP OR	BACKFLOW PREVENTER
H C	HEATING COIL	DPT	DIFFERENTIAL PRESSURE TRANSMITTER, A.I.
C C	COOLING COIL	VFD	VARIABLE FREQUENCY DRIVE
	DAMPER	CSR	CURRENT SENSING RELAY
		T	STEAM TRAP

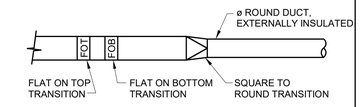
CONNECTION POINT NEW TO EXISTING

(ALIGN SPACE ABOVE LIGHT SWITCH - COORDINATE ALL LOCATIONS WITH ARCHITECT)

- T THERMOSTAT
- S TEMPERATURE SENSOR
- H HUMIDISTAT
- CO_2 CARBON DIOXIDE SENSOR







HIGH AND LOW PRESSURE DUCT LEGEND

NO SCALE

PIPING SYSTEMS & ABBREVIATIONS

CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
G	NATURAL GAS
GWR	GLYCOL WATER RETURN
GWS	GLYCOL WATER SUPPLY
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
PSC	PUMPED STEAM CONDENSATE
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
S100	STEAM (PRESSURE INDICATED BY NUMBER)
SC100	STEAM CONDENSATE (PRESSURE INDICATED BY NUMBER)
SV	STEAM VENT

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Ryan W. Stenhouse
08/28/2025

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MECHANICAL LEGENDS

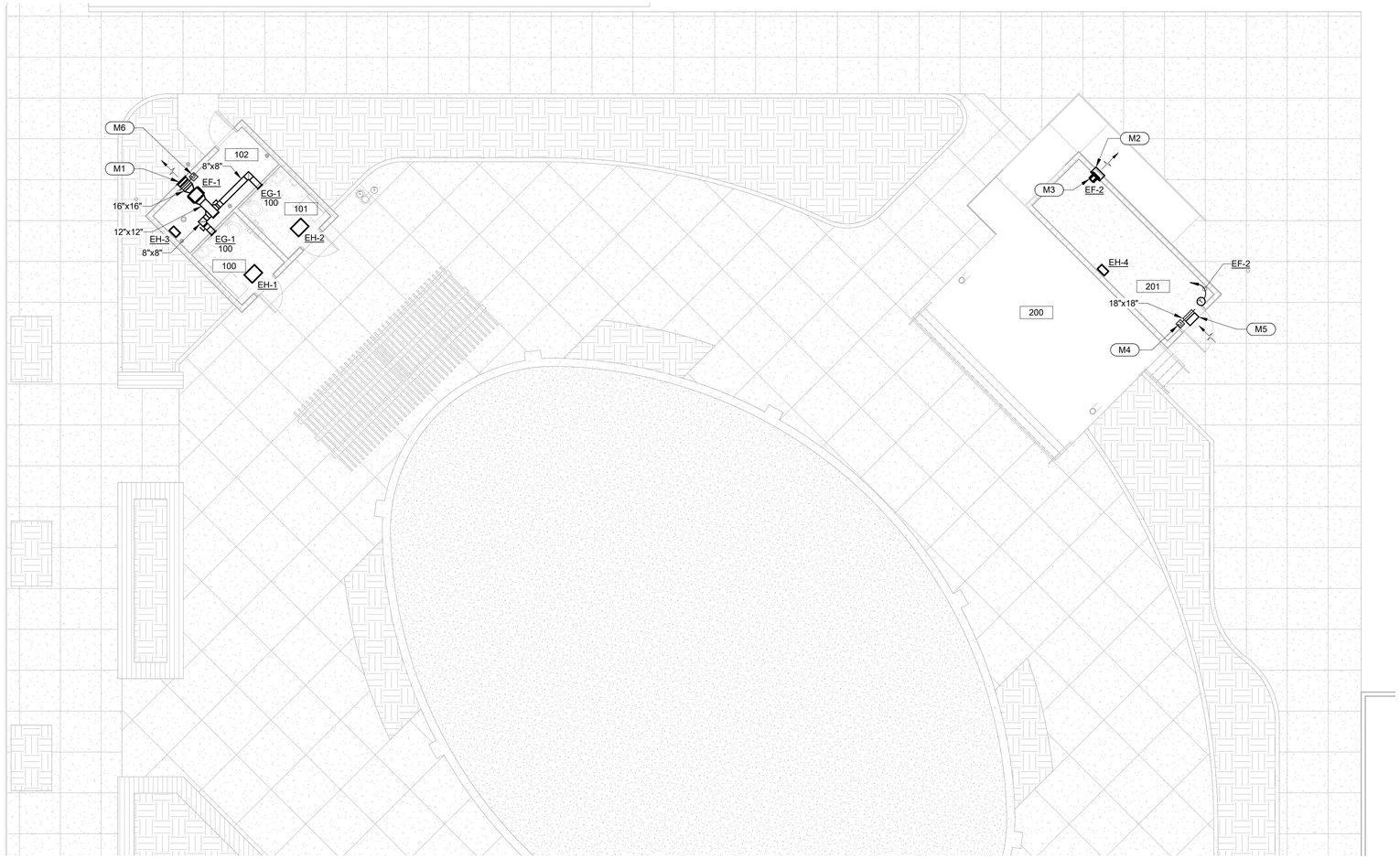
Architect's Project No: 2404-183

Date: August, 2025

Drawing No:

M0.0

V20



FIRST FLOOR HVAC PLAN

1/8" = 1'-0"

North

0' 2' 4' 8'

GENERAL NOTES:

A. THE HVAC DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTWORK AND PIPING. CONTRACTOR SHALL MAKE MODIFICATIONS IN THE INSTALLATION SO ALL EQUIPMENT AND MATERIALS FIT PROPERLY AND CAN BE SERVICED. COORDINATE ALL WORK WITH OTHER TRADES.

B. COORDINATE DUCTWORK WITH LIGHT FIXTURE SUPPORTS, CONDUIT, PLUMBING, FIRE PROTECTION PIPING AND OTHER TRADES.

C. SEAL AROUND ALL PENETRATIONS.

D. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING REGULATIONS, CODES, AND STANDARDS.
INDIANA BUILDING CODE
INDIANA MECHANICAL CODE
INDIANA PLUMBING CODE
SMACNA HVAC DUCT CONSTRUCTION STANDARDS
OSHA

E. ROUTE DUCTWORK AS SHOWN ON PLAN; FIELD VERIFY ROUTING, AND CLEARANCES. PREFABRICATE AS MUCH DUCT AS POSSIBLE. ALLOW FOR FIELD TRIM AND ADJUSTMENTS. COORDINATE ANY CONFLICTS WITH ARCHITECT PRIOR TO INSTALLATION.

F. REFERENCE REFLECTED CEILING PLAN FOR TYPES AND HEIGHTS OF CEILINGS.

PLAN NOTES:

M1 PROVIDE GREENHECK MODEL BVE EXTRUDED ALUMINUM BRICK VENT OR EQUIVALENT. MATCH SIZE TO DUCT. COLOR BY ARCHITECT.

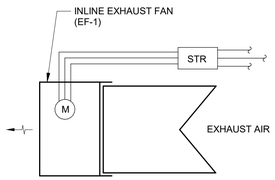
M2 PROVIDE 18"x18" EXHAUST LOUVER WITH MINIMUM FREE AREA OF 0.8 SQUARE FEET. SLOPE BOTTOM OF CONNECTED DUCT TOWARDS LOUVER.

M3 EXHAUST FAN EF-2 SHALL BE CONTROLLED BY A THERMOSTAT MOUNTED IN ROOM 201.

M4 PROVIDE AND INSTALL 2-POSITION 120V MOTORIZED DAMPER. INTERLOCK DAMPER WITH EF-2 TO OPEN DURING FAN OPERATION.

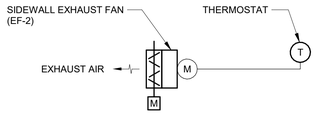
M5 PROVIDE 18"x18" INTAKE LOUVER WITH MINIMUM 0.8 SQUARE FEET FREE AREA BY G.C. SLOPE BOTTOM OF CONNECTED DUCT TOWARDS LOUVER.

M6 PROVIDE AND INSTALL 2-POSITION 120V MOTORIZED DAMPER. INTERLOCK DAMPER WITH EF-1 TO OPEN DURING FAN OPERATION.



EF-1 CONTROL DIAGRAM SEQUENCE OF OPERATION

EXHAUST FAN EF-1 SHALL BE CONTROLLED BY OCCUPANCY SENSORS IN RESTROOMS 100 AND 101. IF EITHER OCCUPANCY SENSOR IS ACTIVATED, THE FAN SHALL ACTIVATE AND RUN FOR BOTH RESTROOMS.



EF-2 CONTROL DIAGRAM SEQUENCE OF OPERATION

EXHAUST FAN EF-2 SHALL BE CONTROLLED BY A WALL-MOUNTED THERMOSTAT. COORDINATE LOCATION WITH OWNER/ARCHITECT. EXHAUST FAN EF-2 SHALL BE INTERLOCKED WITH MOTORIZED INTAKE DAMPER SO THE MOTORIZED INTAKE DAMPER OPENS WHEN EXHAUST FAN EF-2 IS ENERGIZED, AND THE MOTORIZED INTAKE DAMPER CLOSES WHEN EF-2 IS DE-ENERGIZED.

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER BY:
MFR = FURNISHED AND INSTALLED BY MANUFACTURER
EC = FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
MC = FURNISHED LOOSE BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
MFR-EC = FURNISHED LOOSE BY MANUFACTURER AND INSTALLED BY ELECTRICAL CONTRACTOR.
TCC-EC = FURNISHED LOOSE BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

B. DISCONNECT TYPE:
F = FUSED
NF = NON-FUSED
EC = TYPE SPECIFIED BY DIVISION 26. SEE ELECTRICAL SHEETS.

C. CONTROLLER STARTER TYPE:
FV = FULL VOLTAGE
WYE = WYE-DELTA
SS = SOLID STATE (SOFT START)
MS = MANUAL STARTER
VFD = VARIABLE FREQUENCY DRIVE
VFD-B = VARIABLE FREQUENCY DRIVE WITH BYPASS
VFD-FD = VARIABLE FREQUENCY DRIVE WITH FUSED DISCONNECT
AT = AUTO TRANSFORMER
EC = TYPE SPECIFIED BY DIVISION 26. SEE ELECTRICAL SHEETS.
VFD-D = VARIABLE FREQUENCY DRIVE WITH DOOR INTERLOCKING AND PADLOCKABLE INPUT DISCONNECT

EXHAUST FAN SCHEDULE

SYMBOL	SERVICE	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN. W.C.)	FRPM (NOTE 1)	BHP (NOTE 2)	ELECTRICAL						BACKDRAFT DAMPER	DRIVE	SOUND POWER LEVEL (SONES)	MANUFACTURER	MODEL	NOTES
						VOLTAGE	PHASE	DISCONNECT BY (NOTE 3)	DISCONNECT TYPE (NOTE 3)	CONTROLLER/ STARTER BY (NOTE 3)	CONTROLLER/ STARTER TYPE (NOTE 3)						
EF-1	RESTROOMS 100/101	200	0.25	738	0.03	115	1	E.C.	F	E.C.	E.C.	MOTORIZED	DIRECT	0.4	GREENHECK	CSP-A510	4,6,7
EF-2	STORAGE 201	400	0.25	1138	0.07	115	1	E.C.	F	E.C.	E.C.	GRAVITY	DIRECT	5.3	GREENHECK	SE1-12-432-VG	5

NOTES:
1. FANS MUST BE WITHIN +/- 10% OF SCHEDULED RPM.
2. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAMEPLATE RATING.
3. REFER TO "SCHEDULE GENERAL NOTES".
4. PROVIDE A BRICK VENT WITH INSECT SCREEN AND RIS ISOLATORS.
5. PROVIDE WITH REMOTE LINE VOLTAGE THERMOSTAT.
6. PROVIDE WITH SPEED CONTROLLER DIAL MOUNTED ON UNIT.
7. E.C. SHALL WIRE FAN INTO LIGHTING CIRCUIT SUCH THAT WHEN EITHER RESTROOM IS OCCUPIED, THE EXHAUST FAN SHALL OPERATE. WHEN NEITHER RESTROOM IS OCCUPIED, THEN THE EXHAUST FAN SHALL BE DE-ENERGIZED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

GRILLE AND DIFFUSER SCHEDULE

SYMBOL	TYPE (3)	STYLE	FACE SIZE (INCHES)	INLET SIZE (INCHES)	AIRFLOW (CFM)	THROW (FT) @ TERMINAL VELOCITY (FPM) (1)			SOUND N.C. (2)	PRESSURE LOSS (IN. W.G.) (4)	MANUFACTURER	MODEL	NOTES
						150	100	50					
EG-1	SIDEWALL	GRILLE	10"x10"	8"x8"	100	-	-	-	<15	0.03	PRICE	630	5

NOTES:
1. THROW DATA FOR SQUARE DIFFUSERS ARE BASED ON 4-WAY.
2. N.C. VALUES ARE BASED ON ROOM ABSORPTION FOR 10dB re 10^{-12} WATTS.
3. GRILLES AND DIFFUSERS SHALL BE ALUMINUM CONSTRUCTION UNLESS NOTED OTHERWISE.
4. PRESSURE LOSS SHOWN IS TOTAL PRESSURE FOR SUPPLY GRILLES AND STATIC PRESSURE FOR RETURN AND EXHAUST GRILLES.
5. MOUNT GRILLE SUCH THAT LOUVER BLADES ARE POINTING UPWARD.

MISCELLANEOUS EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	REMARKS
EH-1 EH-2	CEILING ELECTRIC HEATER - 3.0KW, 10,200 BTUH, 208V / 1 PH, 10.8A, TEMP. RISE 54°F. PROVIDE MOUNTING FLANGE FOR GYPBOARD CEILING, FACTORY UNIT MOUNTED DISCONNECT AND LINE VOLTAGE UNIT MOUNTED TAMPER RESISTANT THERMOSTAT.	BASED ON MARKEL MODEL HF3385D-RP
EH-3 EH-4	ELECTRIC HEATER - WALL BRACKET MOUNTED, 3.75 KW, 208V, 1ø, 18 AMPS, 275 CFM 16" THROW. PROVIDE WITH FACTORY DISCONNECT AND THERMOSTAT. MOUNT SUCH THAT BOTTOM OF HEATER IS 7'-0'	BASED ON MARKEL MODEL HF5605T

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Ryan W. Stenhouse
08/28/2025

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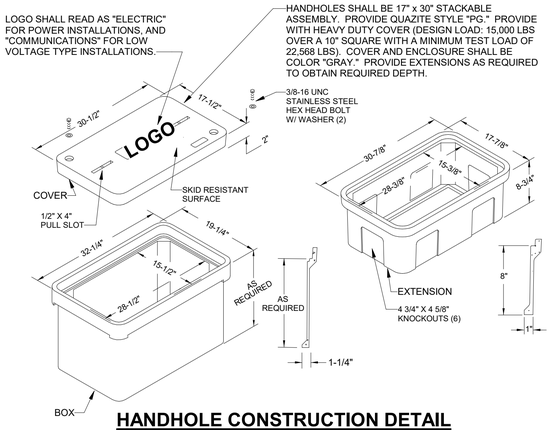
FIRST FLOOR HVAC PLAN

Architect's Project No: 2404-183

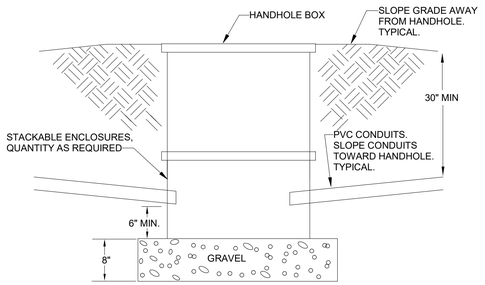
Date: August, 2025

Drawing No:

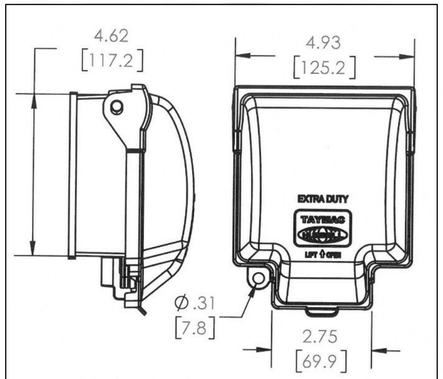
M1.1



HANDHOLE CONSTRUCTION DETAIL
NO SCALE



HANDHOLE INSTALLATION DETAIL
NO SCALE



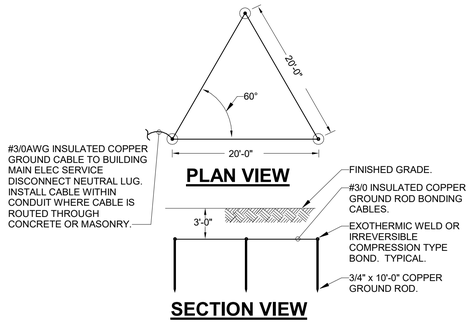
NOTES (WEATHERPROOF IN-USE COVER DETAIL):

1. COVERS SHALL BE CONSTRUCTED OF DIE-CAST ALUMINUM.
2. COVERS SHALL BE EXTRA DUTY RATED.
3. COVERS SHALL BE 2-GANG.
4. COVERS SHALL BE PROVIDED WITH ALL REQUIRED ACCESSORIES.
5. COVER BACK-BOXES SHALL BE INSTALLED WITHIN MASONRY OR CONCRETE WALL ASSEMBLIES S AS REQUIRED FOR COVER PLATE TO SEAL TO BACK-BOX AND AS REQUIRED FOR COVER TO BE FLUSH WITH THE WALL ASSEMBLY.
6. COVERS SHALL BE PAD-LOCKABLE IN CLOSED POSITION.
7. COVERS SHALL BE TAYMAC RAYNGARD MX6200 SERIES OR APPROVED EQUAL.

WEATHERPROOF IN-USE COVER DETAIL
NO SCALE

LEGEND - LIGHTING

SYMBOL	DESCRIPTION
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	SITE LIGHTING POLE AND FIXTURE(S) AS SCHEDULED & NOTED, COMPLETE WITH BASE AND GROUNDING SYSTEM.
F1	SYMBOL INDICATES FIXTURE TYPE WHEN SHOWN ON LIGHTING PLANS AND SITE ELECTRICAL PLANS ADJACENT TO FIXTURE SYMBOL. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE REQUIREMENTS.
$_a$	OUTLET BOX AND DIMMING SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 8" OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. LOWER CASE LETTER INDICATES CIRCUIT SWITCHED.
S$_a$	OUTLET BOX AND 20A, SINGLE POLE SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 8" OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. LOWER CASE LETTER INDICATES CIRCUIT SWITCHED.



DETAIL - TRIAD GROUNDING ELECTRODE SYSTEM
NO SCALE

LEGEND - POWER

SYMBOL	DESCRIPTION
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. INSTALL 18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 125V DOUBLE-DUPLEX RECEPTACLE. INSTALL AT18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH TYPE OF RECEPTACLE AS NOTED. MOUNT 18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
"GFI"	NOMENCLATURE INDICATES GROUND FAULT INTERRUPTER TYPE RECEPTACLE WHEN SHOWN PLANS ADJACENT TO SYMBOL.
"WP"	NOMENCLATURE INDICATES DIE-CAST ALUMINUM EXTRA DUTY RATED WEATHERPROOF IN-USE 2-GANG LOCKABLE COVER WHEN SHOWN ON PLANS ADJACENT TO SYMBOL. SEE WEATHERPROOF IN-USE DETAIL, THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
"EX"	NOMENCLATURE INDICATES EXISTING DEVICE WHEN SHOWN ON PLANS ADJACENT TO SYMBOL.
a,b,c,...	LOWER CASE LETTERS INDICATE SWITCHING ARRANGEMENT WHEN SHOWN NEXT TO OR WITHIN SYMBOL ON PLANS.
	JUNCTION BOX AS REQUIRED OR AS NOTED.
	FUSIBLE OR CIRCUIT BREAKER TYPE DISCONNECT DEVICE RATED FOR CONNECTED LOAD, AVAILABLE FAULT CURRENT AND INSTALLATION LOCATION ENVIRONMENT.
	NON-FUSIBLE DISCONNECT DEVICE RATED FOR CONNECTED LOAD, AVAILABLE FAULT CURRENT AND INSTALLATION LOCATION ENVIRONMENT.
	CONNECTION TO ELECTRICAL SYSTEM GROUNDING SYSTEM.
LC1-1	HOMERUN TO PANEL INDICATED. PREFIX INDICATES PANEL NOMENCLATURE. NUMBERS INDICATE CIRCUIT NUMBERS.
PHASE CONDUCTOR NEUTRAL GROUND	CIRCUIT. NUMBER OF CROSSBARS INDICATE QUANTITY OF CONDUCTORS REQUIRED. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH TRADE SIZE. MINIMUM SIZE CONDUCTORS SHALL BE 12 AWG.

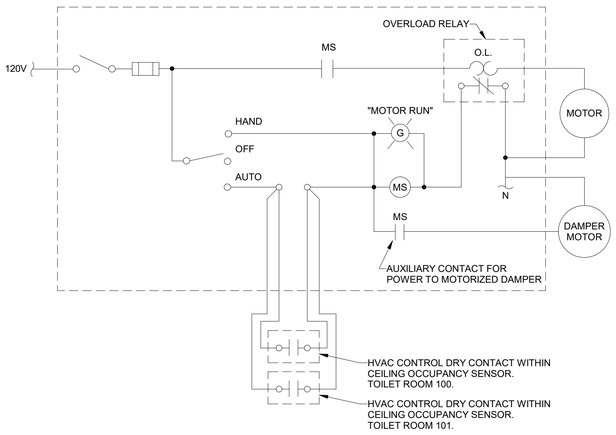
MOTOR CONTROL SCHEDULE

MOTOR NO.	MOTOR USE	MOTOR LOCATION	MOTOR HP (WATTS)	VOLT	PH	MOTOR CONTROLLER							REMARKS
						TYPE	CONTROLLER LOCATION	STR. SIZE	SW. SIZE	FUSE	AUXILIARY CONTROL DEVICES		
											DEVICE	LOCATION	
1	EXHAUST FAN "EF-1"	STORAGE RM 102, RESTROOM BLDG	(57W)	120	1	A	STORAGE RM 102, RESTROOM BLDG	0	30A/1	NOTE 1	H.O.A. SWITCH, PILOT LIGHT	STARTER COVER	SEE CONTROL WIRING DIAGRAM, THIS SHEET
2	EXHAUST FAN "EF-2"	STORAGE RM 102, RESTROOM BLDG	1/4	120	1	A	STORAGE RM 102, RESTROOM BLDG	0	30A/1	NOTE 1	H.O.A. SWITCH, PILOT LIGHT	STARTER COVER	SEE CONTROL WIRING DIAGRAM, THIS SHEET

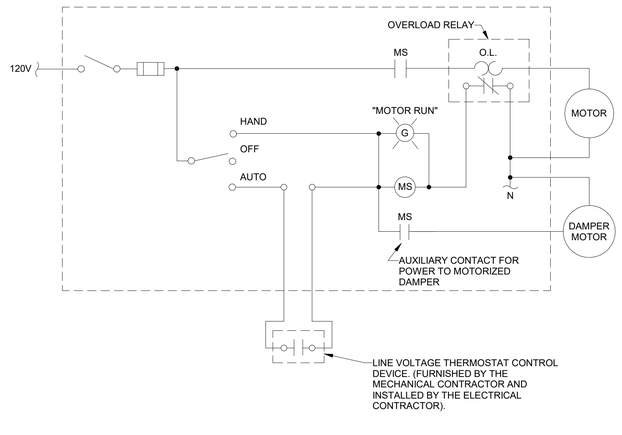
NOTES:
1. PROVIDE FUSE(S) AS REQUIRED FOR PROTECTION OF MOTOR LOAD USING RK5 TYPE FUSES.

MOTOR CONTROLLER LEGEND

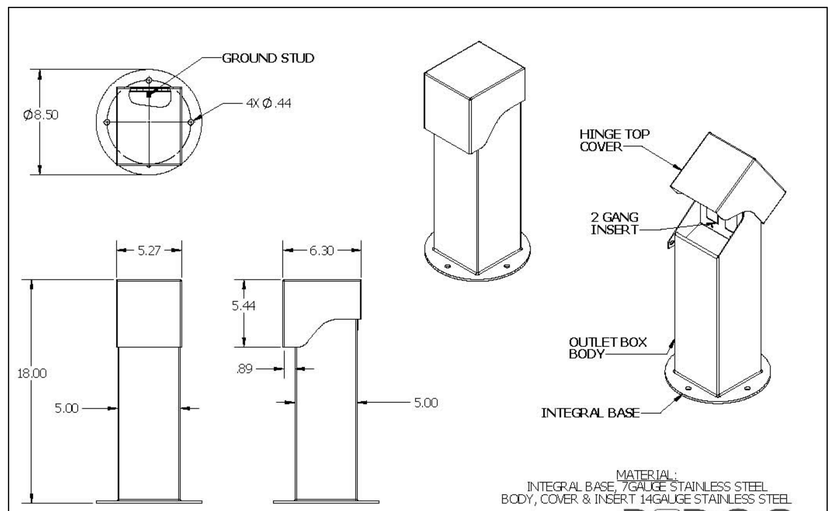
TYPE	DESCRIPTION
A	INDIVIDUAL, COMBINATION, FULL-VOLTAGE, NON-REVERSING MAGNETIC MOTOR CONTROLLER IN NEMA 1 ENCLOSURE.
B	INDIVIDUAL, COMBINATION, FULL-VOLTAGE, NON-REVERSING MAGNETIC MOTOR CONTROLLER IN NEMA 3R ENCLOSURE.



MOTOR CONTROL WIRING DIAGRAM FOR: EXHAUST FAN "EF-1"
NO SCALE



MOTOR CONTROL WIRING DIAGRAM FOR: EXHAUST FAN "EF-2"
NO SCALE



POWER PEDESTAL DETAIL
NO SCALE

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08/29/2025

Revisions:

#	Description	Date

Designed By:	Drawn By:	Checked By:
BJH	BJH	BJH

Sheet title:

ELECTRICAL LEGEND & DETAILS

Architect's Project No: 2404-183

Date: August, 2025

Drawing No: E1.1

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	FIXTURE SERIES	LAMP TYPE	LAMP QNTY PER FIXTURE	LAMP WATTS	FIXTURE VOLTAGE	MOUNTING	LIGHT CONTROL LENS	LIGHT CONTROL REFLECTOR	LIGHT CONTROL LOUVER FINISH	REMARKS
F1	GENERAL PURPOSE LED 4FT NOMINAL LOW PROFILE ENCLOSED AND GASKETED LIGHTING FIXTURE WITH FIBERGLASS HOUSING AND ACRYLIC FROSTED LENS. FIXTURE DIMENSIONS: 6.8"(W) x 4.2"(D) x 51-3/4"(L). **[FIXTURE LUMEN OUTPUT ~ 4000 LUMENS]**	LITHONIA LTG ORACLE LTG METALUX	FEM-L48-4000LM-LPAFL-WD-MVOLT-GZ10-40K-80CRI SERIES 4-OWS-LED-4000LM-DIM10-MVOLT-40K-85CRI SERIES 4APTVTLD-40L840 SERIES	LEDS 4000K (60,000 HRS WITH 80% LUMEN MAINTENANCE)	QNTY AS REQUIRED	22.1W (NOMINAL FIXTURE INPUT WATTS)	120V	SURFACE, CEILING (OR SUSPENDED AS NOTED ON LTG PLANS)	ACRYLIC, LOW PROFILE, FROSTED	---	---	1. PROVIDE FIXTURE WITH VANDAL RESISTANT SHIELDING AND TAMPER PROOF TORX SCREWS.
F2	2" SQUARE LED RECESSED CAN OPEN DOWNLIGHT RATED FOR WET LOCATIONS UNDER A CANOPY. MINIMUM PLENUM HEIGHT: 7-1/4". MAINTAINABLE FROM BELOW A HARD CEILING. **[FIXTURE LUMEN OUTPUT ~ 2000 LUMENS]**	GOTHAM LTG PORTFOLIO	EVO2SQ-40/20-AR-LSS-WD-MVOLT-UGZ SERIES LD2B-20-MVOLT-D010-EU2B-20FL40-80CRI-40K-2LB-DSQC-1-MW-HB26 SERIES	LEDS 4000K (60,000 HRS WITH 70% LUMEN MAINTENANCE)	QNTY AS REQUIRED	31.7W (NOMINAL FIXTURE INPUT WATTS)	120V	RECESSED, CEILING	---	CLEAR METALIZED TRIM, SEMI-SPECULAR TRIM AND FLANGE FINISH	---	1. PROVIDE FIXTURE WITH VANDAL RESISTANT SHIELDING. COORDINATE FIXTURE COLOR WITH ARCHITECT PRIOR TO ORDERING.
F3	6" SQUARE LED RECESSED CAN OPEN DOWNLIGHT RATED FOR WET LOCATIONS UNDER A CANOPY. DIMMABLE DOWN TO 1% OF FULL LUMEN OUTPUT. MAINTAINABLE FROM BELOW A HARD CEILING. MAXIMUM FIXTURE HEIGHT: 7-1/4". **[FIXTURE LUMEN OUTPUT ~ 2935 LUMENS]**	GOTHAM PORTFOLIO	IVO6SQ-D-30LM-40K-80CRI-MWD-MIN1-MVOLT-ZT-WL-P-AR-LSS-F SERIES LDSQ6C-30-80CRI-(120-277)-D010-B26-SQ-1-H-WET LOCATION RATED SERIES	LEDS 4000K (60,000 HRS WITH 70% LUMEN MAINTENANCE)	QNTY AS REQUIRED	28.3W (NOMINAL FIXTURE INPUT WATTS)	120V	RECESSED, CEILING	---	CLEAR METALIZED TRIM, SEMI-SPECULAR TRIM AND FLANGE FINISH	---	
S1	LAWN LIGHT POLE WITH TOP LIGHTING FIXTURE, TWO ADJUSTABLE FLOOD LIGHTS, BASE PLATE, POLE THICKNESS REQUIRED TO SUPPORT ALL FIXTURES, INCLUDING THE CANTENARY STRING LIGHTS AND MEDIA/SPEAKER ASSEMBLIES. PROVIDE WITH CUSTOM MODIFICATIONS REQUIRED FOR ATTACHMENT/MOUNTING OF CANTENARY STRING LIGHTS AND MEDIA/SPEAKER SUPPORT/MOUNTING. PROVIDE WITH CUSTOM PAINT FINISH COLOR. **[FIXTURE LUMEN OUTPUT ~ 6343 LUMENS]** ***(NO SUBSTITUTES ALLOWED)***	BEGA	B84725 SYSTEM BLDG ELEMENT POLE W/TWO FLOODLIGHTS, B84817 POLE HEAD, EXTRA THICK POLE WALL, CUSTOM MODS	LEDS 4000K (60,000 HRS WITH 70% LUMEN MAINTENANCE)	QNTY AS REQUIRED	86.3W (NOMINAL FIXTURE INPUT WATTS)	120V	POLE ***(SEE REMARKS)***	---	---	---	1. SEE "LAxxx" SERIES DRAWINGS FOR ADDITIONAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, PHYSICAL DIMENSIONS, EQUIPMENT MOUNTING, INSTALLATION AND POLE BASE DETAILS.
S2	WET LOCATION CANTENARY STRING LIGHTING SYSTEM, LED TRUE RGB+W, WITH BLACK WIRE COLOR AND 24" SPACING OF LUMINAIRES. PROVIDE COMPLETE WITH ALL REQUIRED ACCESSORIES INCLUDING BUT NOT LIMITED TO: POWER SUPPLIES, CONTROLLER, CABLES, STRUCTURAL CABLES, JUMPER CABLES, DMX INTERFACE EQUIPMENT, ETHERNET SWITCHES, PATCH CORDS AND ADAPTERS. PROVIDE SYSTEM COMPLETE WITH EQUIPMENT/ACCESSORIES REQUIRED FOR BOTH ON-LINE & OFF-LINE OPERATION.	TIVOLI	LST-BK-24-RGBW-OP-LENGTHS AS REQUIRED-24VDC-REQUIRED ACCESSORIES	---	---	---	120V	POLE ***(SEE REMARKS)***	---	---	---	1. SEE "LAxxx" SERIES DRAWINGS FOR ADDITIONAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, PHYSICAL DIMENSIONS, EQUIPMENT MOUNTING, LUMINAIRE SPACING AND INSTALLATION DETAILS. 2. PROVIDE LENGTH OF CANTENARY LIGHTS AS INDICATED ON THE "LAxxx" SERIES DRAWINGS. 3. PROVIDE SHOP DRAWINGS WHICH INDICATE ALL INSTALLATION REQUIREMENTS, EQUIPMENT LOCATIONS, INTERCONNECTION & WIRING DIAGRAMS.
S3	WET LOCATION IP67 RATED STATIC WHITE LED TAPE LIGHTING SYSTEM COMPLETE WITH NON-DIMMING DRIVER WITHIN UL8750 LISTED ENCLOSURE (BUILT-IN JUNCTION BOXES & IP65 RATING) AND ALL ACCESSORIES REQUIRED FOR MOUNTING WITHIN OUTDOOR LOCATIONS AS INDICATED ON THE CONTRACT DRAWINGS. **[FIXTURE LUMEN OUTPUT ~ 121LM/FT]**	LED LINEAR USA INC	HYDRALUX-LD5-W8-27(3800K)-IP67-REQUIRED IP67 DRIVER SERIES	LEDS 3800K (60,000 HRS WITH 80% LUMEN MAINTENANCE)	QNTY AS REQUIRED	1.5W/FT (NOMINAL FIXTURE INPUT WATTS)	120V	SURFACE, (BOTTOM OF STRAPS SUPPORTING BENCH SEATS ***(SEE REMARKS)***	---	---	---	1. SEE "LAxxx" SERIES DRAWINGS FOR ADDITIONAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, LED TAPE INSTALLATION LOCATION & MOUNTING DETAILS. 2. PROVIDE SHOP DRAWINGS WHICH INDICATE ALL INSTALLATION REQUIREMENTS, EQUIPMENT LOCATIONS, INTERCONNECTION & WIRING DIAGRAMS. 3. INSTALL DRIVER/POWER SUPPLY WITHIN ACCESSIBLE SPACE BEHIND THE BENCH REMOVABLE WOOD PLANKS. PROVIDE A DRIVER FOR EACH PLANTER AREA FIXTURE. 4. PROVIDE WITH ALL REQUIRED MOUNTING ACCESSORIES, SURFACE MOUNT CLIPS, CABLES AND CONNECTORS, PROTECTION CAPS, SEALANT MATERIALS & EQUIPMENT TO PROVIDE REQUIRED IP67 INSTALLATION.
EMB2	HIGH PERFORMANCE LED EMERGENCY LIGHTING FIXTURE WITH DUAL HEADS, INTEGRAL BATTERY BACK-UP, SELF-DIAGNOSTICS, WHITE HOUSING AND NEMA 4X I065 VANDAL SHIELD. **[FIXTURE LUMEN OUTPUT ~ 1300 LUMENS]**	ISOLITE EVENLITE	BUG-6W-WH-MB-SD-BUG-ACCY-VRS SERIES TEBL6W-SD-VRWP SERIES	LEDS THREE 2W LEDS PER FIXTURE HEAD	--	--	120V	SURFACE, WALL	---	---	---	1. PROVIDE FIXTURE WITH VANDAL RESISTANT SHIELD.

(END OF LIGHTING FIXTURE SCHEDULE)

ALTERNATE BID ITEM "LED ACCENT LIGHTING FOR SEAT WALLS".
ALL COSTS ASSOCIATED WITH THE WORK REQUIRED TO PROVIDE THE LED ACCENT LIGHTING FIXTURES AND ASSOCIATED CIRCUITS SHALL BE INCLUDED IN THIS ALTERNATE BID ITEM.

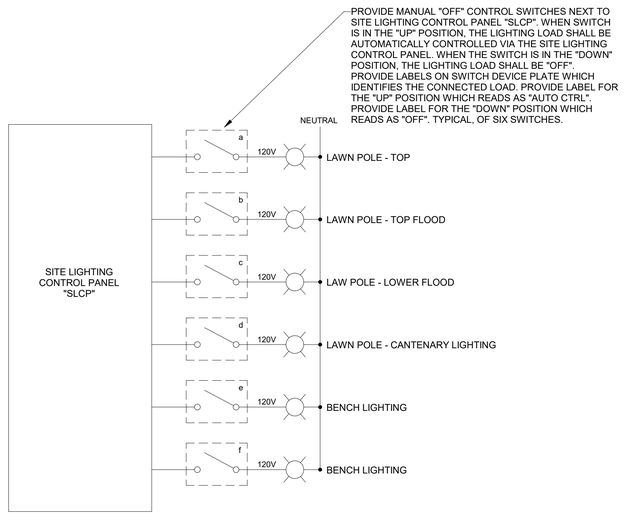
SITE LIGHTING CONTROL PANEL SCHEDULE

LCP Name: LIGHTING CONTROL PANEL "SLCP"
Location: PLATFORM BUILDING ELEC ROOM 201
Surface/Flush: SURFACE MOUNT
Power Circuit: ML1-22
Description of Loads: (BUILDING EXTERIOR & SITE LTG)

Relay #	Circuit	Description	Ltg Ctrl Requirements
1	ML1-24	LAWN POLE - TOP	(SEE NOTES 1 & 2)
2	ML1-26	LAWN POLE - TOP FLOOD	(SEE NOTES 1 & 2)
3	ML1-28	LAWN POLE - LOWER FLOOD	(SEE NOTES 1 & 2)
4	ML1-30	LAWN - CANTENARY LIGHTING	(SEE NOTES 1 & 2)
5	ML1-32	BENCH LIGHTING	(SEE NOTES 1 & 2)
6	ML1-34	BENCH LIGHTING	(SEE NOTES 1 & 2)
7	SPARE		
8	SPARE		

NOTES:
1. DUSK-TO-DAWN CONTROL VIA PHOTOCELL SENSOR. PROVIDE PHOTOCELL SENSOR ON BUILDING EXTERIOR (NORTH SIDE) AWAY FROM ALL MAN-MADE SOURCES OF DIRECT ILLUMINATION. COORDINATE THE REQUIRED INSTALLATION LOCATION IN FIELD WITH THE REQUIREMENTS OF ALL OTHER TRADES INVOLVED ON THIS PROJECT.

2. TIMED CONTROL VIA INTEGRAL 24-HOUR TIMER. CIRCUIT SHALL BE CAPABLE OF BEING DE-ENERGIZED AT A SCHEDULED EVENING TIME AS SPECIFIED BY OWNER.



SITE LIGHTING CONTROL PANEL DIAGRAM
NO SCALE

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08/29/2025

Revisions:

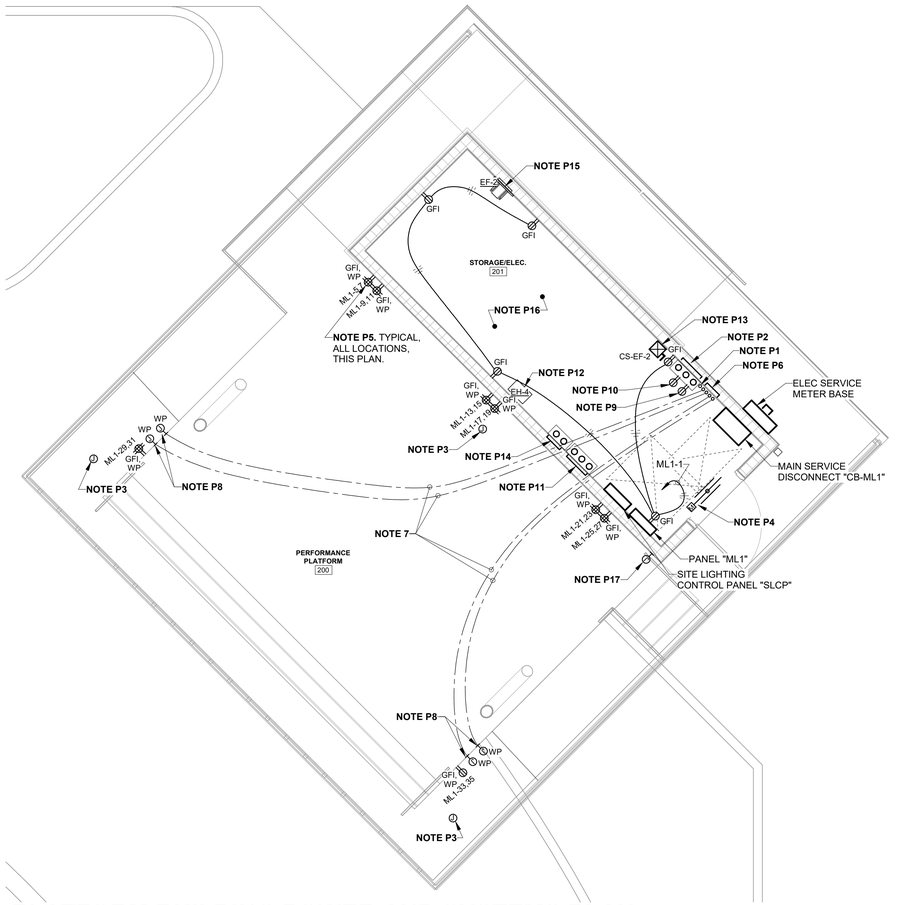
#	Description	Date

Designed By:	Drawn By:	Checked By:
BJH	BJH	BJH

Sheet title:
LIGHTING FIXTURE SCHEDULE

Architect's Project No: 2404-183
Date: August, 2025

Drawing No:
E1.2



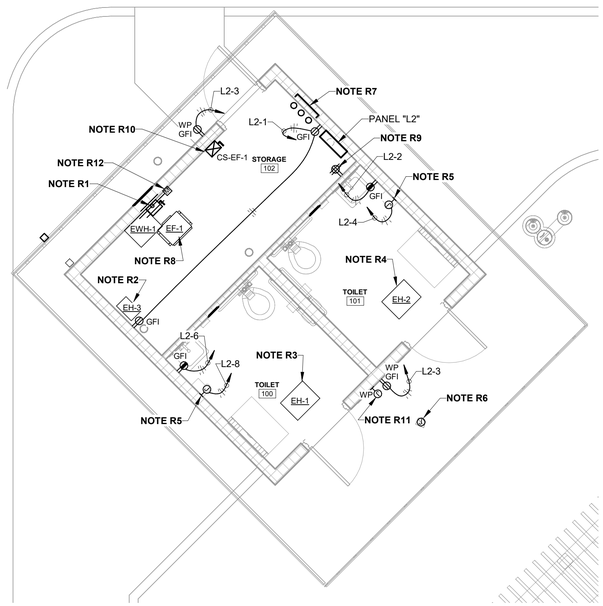
PLATFORM BUILDING POWER AND SYSTEMS PLAN

1/4" = 1'-0"

1/4"=1'-0"

0' 1' 2' 4'

North



RESTROOM BUILDING POWER AND SYSTEMS PLAN

1/4" = 1'-0"

1/4"=1'-0"

0' 1' 2' 4'

North

NOTES (PERFORMANCE PLATFORM BUILDING POWER & SYSTEMS PLAN):

P1. CONDUIT FROM SITE LIGHTING POLE (FOR LOW VOLTAGE AUDIO CABLES TO SPEAKER LOCATIONS ON THE SITE LIGHTING POLES). SEE SITE ELECTRICAL PLAN, SHEET E5.1, FOR ADDITIONAL REQUIREMENTS.

P2. CONDUITS FROM HANDHOLE (FOR LOW VOLTAGE CABLES). SEE SITE ELECTRICAL PLAN, SHEET E5.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE PULL BOX (SIZE AS REQUIRED) FOR TERMINATION OF CONDUITS.

P3. PROVIDE SINGLE-GANG OUTLET BOX IN CEILING CANOPY FOR FUTURE INSTALLATION OF VIDEO SURVEILLANCE CAMERA. PROVIDE 1" CONDUIT FROM OUTLET BOX TO PULL-BOX PROVIDED WITHIN STORAGE ROOM 201. BUSH CONDUIT ENDS. PROVIDE PULL STRING IN EMPTY CONDUIT. PROVIDE COVER PLATE OVER EMPTY OUTLET BOX.

P4. DAMPER MOTOR FOR EXHAUST FAN "EF-2". PROVIDE POWER TO AND CONTROL OF DAMPER THROUGH COMBINATION MOTOR CONTROLLER FOR EXHAUST FAN "EF-2". DAMPER SHALL BE OPENED WHEN EXHAUST FAN IS ENERGIZED AND CLOSED WHENEVER THE EXHAUST FAN IS DE-ENERGIZED. SEE MOTOR CONTROL SCHEDULE & CONTROL WIRING DIAGRAM, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.

P5. PROVIDE DEDICATED 20A, 120V CIRCUIT TO EACH DUPLEX RECEPTACLE USING # 12AWG FOR PHASE CONDUCTORS, #12AWG FOR NEUTRAL CONDUCTORS AND #12AWG FOR EQUIPMENT GROUND CONDUCTOR INSTALLED WITHIN 3/4"C. PROVIDE CIRCUITS FROM THE PANEL AND BRANCH CIRCUIT NUMBERS AS INDICATED.

P6. CONDUITS FROM AUDIO SYSTEM OUTLET BOXES INSTALLED PLATFORM RIGHT & PLATFORM LEFT (FOR LOW VOLTAGE AUDIO CABLES). PROVIDE PULL BOX (SIZE AS REQUIRED) FOR TERMINATION OF ALL CONDUITS FOR THE AUDIO SYSTEM.

S7. PROVIDE 1" CONDUIT BELOW GRADE FROM AUDIO SYSTEM OUTLET BOX TO PULL-BOX PROVIDED WITHIN STORAGE/ELEC ROOM 201. PROVIDE PULL STRING IN EMPTY CONDUIT.

P8. AUDIO SYSTEM OUTLET BOX. PROVIDE 2-GANG OUTLET BOX WITH EXTRA DUTY RATED CAST ALUMINUM WEATHERPROOF IN-USE COVER. SEE WEATHERPROOF IN-USE COVER DETAIL, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.

P9. PROVIDE NEMA 5-20R GFI RECEPTACLE HIGH ON WALL FOR POWER TO FUTURE AUDIO SYSTEM EQUIPMENT. PROVIDE DEDICATED 20A, 120V BRANCH CIRCUIT TO RECEPTACLE FROM PANEL "ML1" CIRCUIT NO. 37 USING 2#12, 1#12G IN 3/4"C. COORDINATE INSTALLATION LOCATION WITH ARCHITECT & OWNER'S AUDIO SYSTEM PROVIDER PRIOR TO START OF ROUGH-IN.

P10. PROVIDE NEMA 5-20R GFI RECEPTACLE HIGH ON WALL FOR POWER TO FUTURE DATA NETWORK SYSTEM EQUIPMENT. PROVIDE DEDICATED 20A, 120V BRANCH CIRCUIT TO RECEPTACLE FROM PANEL "ML1" CIRCUIT NO. 39 USING 2#12, 1#12G IN 3/4"C. COORDINATE INSTALLATION LOCATION WITH ARCHITECT & OWNER'S DATA NETWORK SYSTEM PROVIDER PRIOR TO START OF ROUGH-IN.

P11. CONDUITS FROM HANDHOLE (FOR POWER CIRCUITS). SEE SITE ELECTRICAL PLAN, SHEET E5.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE PULL BOX (SIZE AS REQUIRED) FOR TERMINATION OF CONDUITS.

P12. ELECTRIC HEATER "EH-4" WITH INTEGRAL SAFETY DISCONNECT. PROVIDE DEDICATED 30A, 208V SINGLE-PHASE CIRCUIT TO ELECTRIC HEATER FROM PANEL "ML1" CIRCUIT NO. 41 USING 2#10, 1#10G IN 3/4"C.

P13. COMBINATION MOTOR CONTROLLER FOR EXHAUST FAN "EF-2". SEE MOTOR CONTROL SCHEDULE & CONTROL WIRING DIAGRAM, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE POWER CIRCUIT TO EXHAUST FAN (THROUGH COMBINATION MOTOR CONTROLLER) FROM PANEL "ML1" CIRCUIT NO. 45 USING 2#12, 1#12G IN 3/4"C.

P14. CONDUITS FROM HANDHOLE (FOR COMMUNICATION CIRCUITS). SEE SITE ELECTRICAL PLAN, SHEET E5.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE PULL BOX (SIZE AS REQUIRED) FOR TERMINATION OF CONDUITS.

P15. EXHAUST FAN "EF-2" PROVIDE DEDICATED 20A, 120V SINGLE-PHASE CIRCUIT TO EXHAUST FAN AND DAMPER MOTOR USING 2#12, 1#12G, IN 3/4"C. SEE MOTOR CONTROL SCHEDULE & CONTROL WIRING DIAGRAM, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.

P16. INSTALLATION OF DISTRIBUTION EQUIPMENT, CONDUIT STUB-UPS AND LIGHTING CONTROL EQUIPMENT AND DEVICES SHALL BE SHIFTED TO THE EAST END OF THE STORAGE ROOM AS REQUIRED TO PROVIDE MAXIMUM UNHINDERED SPACE AT THE WEST END OF THE STORAGE ROOM FOR STORAGE OF OWNER EQUIPMENT.

P17. PROVIDE OUTLET BOX IN WALL AT APPROXIMATELY 10'-0" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET BOX FOR FUTURE INSTALLATION OF WIRELESS ACCESS SYSTEM EQUIPMENT. PROVIDE 1" CONDUIT FROM OUTLET BOX TO PULL-BOX PROVIDED WITHIN STORAGE ROOM 201. BUSH CONDUIT ENDS. PROVIDE 1" CONDUIT FROM OUTLET BOX TO NEAR FUTURE DATA EQUIPMENT RACK LOCATION IN STORAGE ROOM 102. PROVIDE TWO CAT 6 DATA CABLES FROM OUTLET BOX TO FUTURE DATA EQUIPMENT RACK LOCATION WITHIN THE STORAGE ROOM OF THE RESTROOM BUILDING. TERMINATE BOTH ENDS OF CABLES. PROVIDE WITH WEATHERPROOF IN-USE COVER AS DETAILED ON SHEET E1.1.

NOTES (RESTROOM BUILDING POWER & SYSTEMS PLAN):

R1. PROVIDE 30A/1 FUSED SAFETY DISCONNECT SWITCH "DS-EWH-1" NEAR WATER HEATER. PROVIDE DEDICATED 120V, 20A BRANCH CIRCUIT TO WATER HEATER FROM PANEL "L2" CIRCUIT NO. 10 USING 2#12, 1#12G IN 3/4"C.

R2. ELECTRIC HEATER "EH-3" WITH INTEGRAL SAFETY DISCONNECT. PROVIDE DEDICATED 30A, 208V SINGLE-PHASE CIRCUIT TO ELECTRIC HEATER FROM PANEL "L2" CIRCUIT NO. 7 USING 2#10, 1#10G IN 3/4"C.

R3. CEILING HEATER "EH-1" WITH INTEGRAL SAFETY DISCONNECT. PROVIDE 20A, 208V SINGLE-PHASE CIRCUIT TO ELECTRIC HEATER FROM PANEL "L2" CIRCUIT NO. 11 USING 2#12, 1#12G IN 3/4"C.

R4. CEILING HEATER "EH-2" WITH INTEGRAL SAFETY DISCONNECT. PROVIDE 20A, 208V SINGLE-PHASE CIRCUIT TO ELECTRIC HEATER FROM PANEL "L2" CIRCUIT NO. 15 USING 2#12, 1#12G IN 3/4"C.

R5. PROVIDE JUNCTION BOX AND DEDICATED BRANCH CIRCUIT FOR HAND DRYER. COORDINATE THE REQUIRED INSTALLATION LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE FINAL CONNECTION TO HAND DRYER PER MANUFACTURER'S REQUIREMENTS.

R6. PROVIDE SINGLE-GANG OUTLET BOX IN CEILING CANOPY FOR FUTURE INSTALLATION OF VIDEO SURVEILLANCE CAMERA. PROVIDE 1" CONDUIT FROM OUTLET BOX TO PULL-BOX PROVIDED WITHIN STORAGE ROOM 102. BUSH CONDUIT ENDS. PROVIDE PULL STRING IN EMPTY CONDUIT. PROVIDE COVER PLATE OVER EMPTY OUTLET BOX.

R7. CONDUITS FROM HANDHOLE (FOR LOW VOLTAGE CABLES). SEE SITE ELECTRICAL PLAN, SHEET E5.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE PULL BOX, SIZED AS REQUIRED FOR TERMINATION OF CONDUITS.

R8. SEE MOTOR CONTROL SCHEDULE & CONTROL WIRING DIAGRAM, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS. SEE RESTROOM BUILDING LIGHTING PLAN, SHEET E3.1, FOR ADDITIONAL REQUIREMENTS.

R9. PROVIDE NEMA 5-20R GFI DOUBLE-DUPLEX RECEPTACLE HIGH ON WALL FOR POWER TO FUTURE DATA NETWORK SYSTEM EQUIPMENT. PROVIDE DEDICATED 20A, 120V BRANCH CIRCUIT TO RECEPTACLE FROM PANEL "L2" CIRCUIT NO. 12 USING 2#12, 1# 12G IN 3/4"C. COORDINATE INSTALLATION LOCATION WITH ARCHITECT & OWNER'S DATA NETWORK SYSTEM PROVIDER PRIOR TO START OF ROUGH-IN.

R10. COMBINATION MOTOR CONTROLLER FOR EXHAUST FAN "EF-1". SEE MOTOR CONTROL SCHEDULE & CONTROL WIRING DIAGRAM, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE POWER CIRCUIT TO EXHAUST FAN (THROUGH COMBINATION MOTOR CONTROLLER) FROM PANEL "L2" CIRCUIT NO. 14 USING 2#12, 1#12G IN 3/4"C.

R11. PROVIDE OUTLET BOX IN WALL AT APPROXIMATELY 10'-0" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET BOX FOR FUTURE INSTALLATION OF WIRELESS ACCESS SYSTEM EQUIPMENT. PROVIDE 1" CONDUIT FROM OUTLET BOX TO NEAR FUTURE DATA EQUIPMENT RACK LOCATION IN STORAGE ROOM 102. PROVIDE ONE CAT 6 DATA CABLE FROM OUTLET BOX TO FUTURE RACK LOCATION. TERMINATE BOTH ENDS OF CABLE. PROVIDE WITH WEATHERPROOF IN-USE COVER AS DETAILED ON SHEET E1.1.

R12. DAMPER MOTOR FOR EXHAUST FAN "EF-1". PROVIDE POWER TO AND CONTROL OF DAMPER THROUGH COMBINATION MOTOR CONTROLLER FOR EXHAUST FAN "EF-1". DAMPER SHALL BE OPENED WHEN EXHAUST FAN IS ENERGIZED AND CLOSED WHENEVER THE EXHAUST FAN IS DE-ENERGIZED. SEE MOTOR CONTROL SCHEDULE & CONTROL WIRING DIAGRAM, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.

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Sheet title:

POWER AND SYS PLANS - RESTROOM & PERFORM PLATFORM BUILDINGS

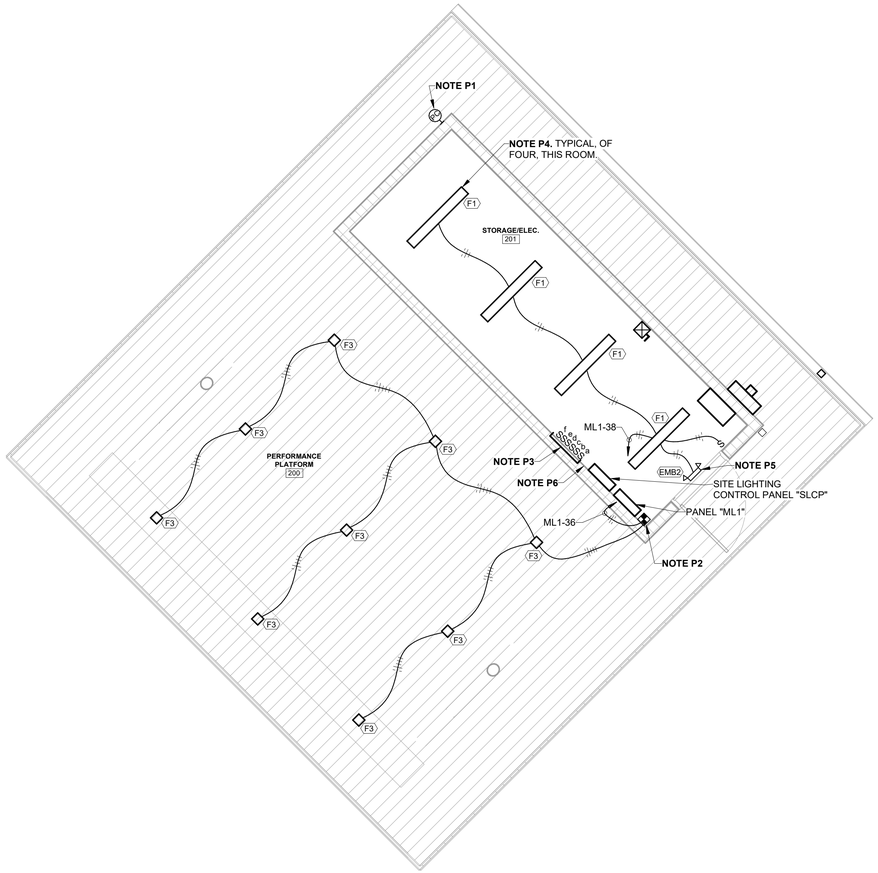
Architect's Project No: 2404-183

Date: August, 2025

Drawing No:

E2.1

V24

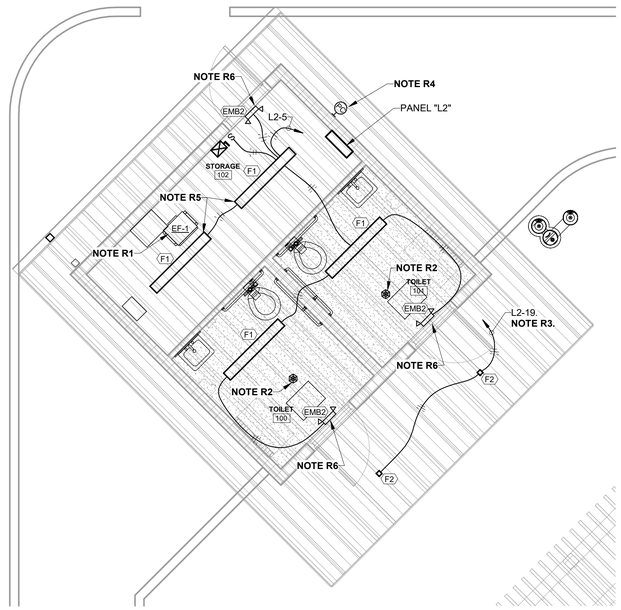


PERFORMANCE PLATFORM BUILDING LIGHTING PLAN

1/4" = 1'-0"

1/4"=1'-0" North

0' 1' 2' 4'



RESTROOM BUILDING LIGHTING PLAN

1/4" = 1'-0"

1/4"=1'-0" North

0' 1' 2' 4'

NOTES (PERFORMANCE PLATFORM BUILDING LIGHTING PLAN):

P1. PHOTOCELL LIGHTING CONTROL DEVICE FOR "DUSK-TO-DAWN" LIGHTING CONTROL FOR LIGHTING CONTROL PANEL "SLCP". PROVIDE TORK 2100 SERIES PHOTOCELL OR APPROVED EQUAL MANUFACTURED BY PARAGON OR INTERMATIC. INSTALL HIGH ON WALL ON NORTH SIDE OF BUILDING AWAY FROM ALL DIRECT SOURCES OF ILLUMINATION. COORDINATE EXACT INSTALLATION LOCATION IN FIELD WITH ALL OTHER CONSTRUCTION AND FIELD CONDITIONS.

P2. DIMMER SWITCH FOR CONTROL OF PLATFORM LIGHTING. PROVIDE SLIDE-TO-OFF TYPE (0-TO-10V) DIMMER SWITCH FULLY COMPATIBLE WITH THE PLATFORM LIGHTING FIXTURES. PROVIDE LABEL ON DEVICE PLATE WHICH READS "PLATFORM LTG".

P3. SWITCHES FOR INDIVIDUAL MANUAL "OFF" CONTROL OF THE LIGHTING LOADS FED FROM THE SITE LIGHTING CONTROL PANEL "SLCP". SEE "SITE LIGHTING CONTROL PANEL DIAGRAM", SHEET E1.2, FOR ADDITIONAL REQUIREMENTS.

P4. SUSPEND LIGHTING FIXTURE FROM BOTTOM OF CEILING. INSTALL AS HIGH AS POSSIBLE, SUCH THAT THE LIGHT OUTPUT IS NOT BLOCKED BY DUCTWORK, STRUCTURAL ELEMENTS, PIPING, CONDUIT OR ANY OTHER INSTALLED ITEMS.

P5. INSTALL EMERGENCY LIGHTING FIXTURE ON WALL AS HIGH AS POSSIBLE AND CENTERED ABOVE THE DOOR. PROVIDE WITH VANDAL RESISTANT SHIELD. AIM FIXTURE HEADS AS REQUIRED TO PROVIDE MAXIMUM UNIFORM ILLUMINATION OF PATH OF EGRESS.

P6. PROVIDE POWER SUPPLIES AND OFF-LINE CONTROLLER UNITS IN THIS GENERAL LOCATION AS REQUIRED FOR CONTROL OF THE TYPE "S2" RGBW LED CANTENARY LIGHTING SYSTEMS. INSTALL DEVICES IN MANNER TO MAXIMIZE HORIZONTAL SPARE SPACE ON WALL. PROVIDE POWER CIRCUIT TO POWER SUPPLIES FROM PANEL "ML1" CIRCUIT NO 30 USING 2#12, 1#12G IN 3/4"C.

NOTES (RESTROOM BLDG LIGHTING PLAN):

R1. EXHAUST FAN SHALL BE ENERGIZED WHENEVER THE LIGHTING FIXTURES ARE ENERGIZED IN EITHER RESTROOM. WHEN THE LIGHTING FIXTURES ARE DE-ENERGIZED WITHIN BOTH RESTROOMS, THE EXHAUST FAN SHALL BE DE-ENERGIZED. SEE MOTOR CONTROL SCHEDULE AND CONTROL WIRING DIAGRAM, SHEET E2.1, FOR ADDITIONAL REQUIREMENTS.

R2. PROVIDE DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR (AND ALL REQUIRED ACCESSORIES) RATED FOR THE INSTALLED ENVIRONMENT. PROVIDE OCCUPANCY SENSOR WITH A SECOND DRY CONTACT AS REQUIRED TO INTERCONNECT WITH THE EXHAUST FAN "EF-1" COMBINATION MOTOR CONTROLLER. PROVIDE ALL CIRCUITS AS REQUIRED AND INTERCONNECT WITH THE LIGHTING FIXTURE AND EXHAUST FAN "EF-1" COMBINATION MOTOR CONTROLLER TO TURN "ON" LIGHTING FIXTURE (AND FAN) VIA THE OCCUPANCY SENSOR WHENEVER THE SPACE BECOMES OCCUPIED. THE LIGHTING FIXTURE SHALL AUTOMATICALLY BE TURNED "OFF" WHENEVER THE SPACE BECOMES UNOCCUPIED FOR A TIME PERIOD OF 20 MINUTES. VERIFY "ON" TIME PERIOD WITH THE OWNER PRIOR TO INSTALLATION OF THE OCCUPANCY SENSOR. ADJUST THE OCCUPANCY SENSOR TO THE OWNER'S REQUIREMENTS. THE EXHAUST FAN SHALL ONLY BE DE-ENERGIZED WHEN THE LIGHTING FIXTURES IN BOTH RESTROOMS ARE "TURNED OFF". SEE MOTOR CONTROL SCHEDULE & CONTROL WIRING DIAGRAM, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.

R3. ROUTE LIGHTING CIRCUIT THROUGH PHOTOCELL CONTROL DEVICE AS REQUIRED FOR DUSK-TO-DAWN LIGHTING CONTROL.

R4. PHOTOCELL LIGHTING CONTROL DEVICE FOR "DUSK-TO-DAWN" LIGHTING CONTROL. PROVIDE TORK 2100 SERIES PHOTOCELL OR APPROVED EQUAL MANUFACTURED BY PARAGON OR INTERMATIC. INSTALL HIGH ON WALL ON NORTH SIDE OF BUILDING AWAY FROM ALL DIRECT SOURCES OF ILLUMINATION. COORDINATE EXACT INSTALLATION LOCATION IN FIELD WITH ALL OTHER CONSTRUCTION AND FIELD CONDITIONS.

R5. SUSPEND LIGHTING FIXTURE FROM BOTTOM OF CEILING. INSTALL AS HIGH AS POSSIBLE, SUCH THAT THE LIGHT OUTPUT IS NOT BLOCKED BY DUCTWORK, STRUCTURAL ELEMENTS, PIPING, CONDUIT OR ANY OTHER INSTALLED ITEMS.

R6. INSTALL EMERGENCY LIGHTING FIXTURE ON WALL AS HIGH AS POSSIBLE AND CENTERED ABOVE THE DOOR. PROVIDE WITH VANDAL RESISTANT SHIELD. AIM FIXTURE HEADS AS REQUIRED TO PROVIDE MAXIMUM UNIFORM ILLUMINATION OF PATH OF EGRESS.

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08/29/2025

Revisions:

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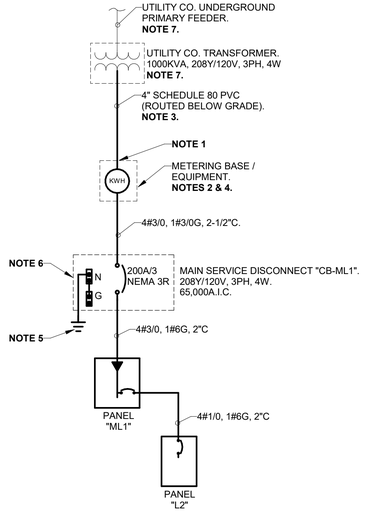
Sheet title:
LIGHTING PLANS- RESTROOM & PERFORMANCE PLATFORM BUILDINGS

Architect's Project No: 2404-183

Date: August, 2025

Drawing No:
E3.1

24



ONE-LINE DIAGRAM

NO SCALE

GENERAL NOTES:

G1. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICE REQUIREMENTS WITH THE LOCAL UTILITY COMPANY. CONTRACTOR SHALL PROVIDE ALL INSTALLATION PER UTILITY COMPANY REQUIREMENTS.
THE LOCAL UTILITY COMPANY IS:
CENTERPOINT ENERGY
P.O.C.: MR. JEREMIAH PARKER
812-205-1905 (MOBILE)
812-491-4754 (OFFICE)
Jeremiah.Parker@centerpointenergy.com.

NOTES:

1. PROVIDE REDUCER FITTING WHERE CONDUIT TERMINATES AT THE METER BASE.

2. COORDINATE ALL ELECTRICAL SERVICE REQUIREMENTS WITH THE LOCAL UTILITY COMPANY. PROVIDE ALL INSTALLATION PER UTILITY COMPANY REQUIREMENTS.

3. CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. CONDUCTORS SHALL BE FURNISHED AND INSTALLED BY CENTERPOINT.

4. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SELF-CONTAINED UTILITY METERING EQUIPMENT BASE IN ACCORDANCE WITH THE REQUIREMENTS OF CENTERPOINT ENERGY. COORDINATE ALL REQUIREMENTS WITH CENTERPOINT PRIOR TO PURCHASE OF MATERIALS. PROVIDE ALL REQUIRED GROUNDING/BONDING PER THE UTILITY COMPANY'S REQUIREMENTS.

5. SEE TRIAD GROUNDING ELECTRODE DETAIL, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.

6. PROVIDE LABEL ON THE MAIN SERVICE DISCONNECT DEVICE (IN ACCORDANCE WITH NEC ARTICLE 110.24) WHICH IDENTIFIES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE FAULT-CURRENT WAS CALCULATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL UTILITY COMPANY TO GET THE AVAILABLE FAULT CURRENT INFORMATION FROM THE UTILITY COMPANY.

7. FURNISHED AND INSTALLED BY UTILITY COMPANY.

RECEPTS, RM. 201	20A	1	2	20A	RECEPTS, POWER PEDESTALS
SPARE	20A	3	4	20A	RECEPTS, POWER PEDESTALS
RECEPT, PLATFORM (BACK)	20A	5	6	20A	RECEPTS, POWER PEDESTALS
RECEPT, PLATFORM (BACK)	20A	7	8	20A	RECEPTS, POWER PEDESTALS
RECEPT, PLATFORM (BACK)	20A	9	10	20A	RECEPTS, POWER PEDESTALS
RECEPT, PLATFORM (BACK)	20A	11	12	20A	RECEPTS, POWER PEDESTALS
RECEPT, PLATFORM (BACK)	20A	13	14	20A	RECEPTS, POWER PEDESTALS
RECEPT, PLATFORM (BACK)	20A	15	16	20A	RECEPTS, POWER PEDESTALS
RECEPT, PLATFORM (BACK)	20A	17	18	20A	RECEPTS, POWER PEDESTALS
RECEPT, PLATFORM (BACK)	20A	19	20	20A	SPARE
RECEPT, PLATFORM (BACK)	20A	21	22	20A	LTG CTRL PANEL "SLCP", RM. 201
RECEPT, PLATFORM (BACK)	20A	23	24	20A	LTG, LAWN POLE - TOP
RECEPT, PLATFORM (BACK)	20A	25	26	20A	LTG, LAWN POLE - TOP FLOOD
RECEPT, PLATFORM (BACK)	20A	27	28	20A	LTG, LAWN POLE - BOTTOM FLOOD
RECEPT, PLATFORM (FRONT)	20A	29	30	20A	LTG, LAWN POLE - CANTENARY
RECEPT, PLATFORM (FRONT)	20A	31	32	20A	LTG, SEATING BENCH
RECEPT, PLATFORM (FRONT)	20A	33	34	20A	LTG, SEATING BENCH
RECEPT, PLATFORM (FRONT)	20A	35	36	20A	LTG, PLATFORM
RECEPT, RM 201 (AUDIO EQUIP)	20A	37	38	20A	LTG, RM. 201
RECEPT, RM 201 (DATA EQUIP)	20A	39	40	20A	SPARE
HEATER "EH-4", RM. 201	30A	41	42	20A	SPARE
		43	44	20A	SPARE
EXHAUST FAN "EF-2" & DAMPER, RM. 201	20A	45	46	20A	SPARE
SPARE	20A	47	48	20A	SPARE
SPARE	20A	49	50	20A	SPARE
SPARE	20A	51	52	20A	SPARE
		53	54	20A	SPARE
PANEL "L2"	125A	55	56		AS REQRD SURGE SUPPRESSION DEVICE
		57	58		
		59	60		

PANEL "ML1"

200A, 208Y/120V, 3PH, 4W
SURFACE MOUNT
60 SPACE
65,000 A.I.C. (SERIES RATING ACCEPTABLE)
PROVIDE WITH HINGED COVER ENCLOSURE.
PROVIDE WITH INTEGRAL SURGE SUPPRESSION DEVICE.

125A

RECEPTS, RM. 102	20A	1	2	20A	RECEPT, RM. 101
RECEPTS, EXT.	20A	3	4	20A	HAND DRYER, RM. 101
LTG , ROOMS 100, 101 & 102	20A	5	6	20A	RECEPT, RM. 100
HEATER "EH-3", RM. 102	30A	7	8	20A	HAND DRYER, RM. 100
		9	10	20A	WATER HEATER "EWH-1"
HEATER "EH-1", RM. 100	20A	11	12	20A	RECEPT, RM. 102 (DATA EQP)
		13	14	20A	EXHAUST FAN "EF-1"
HEATER "EH-2", RM. 101	20A	15	16	20A	SPARE
		17	18	20A	SPARE
LTG, BLDG EXTERIOR	20A	19	20	20A	SPARE
SPARE	20A	21	22	20A	SPARE
SPARE	20A	23	24	20A	SPARE
SPARE	20A	25	26	20A	SPARE
SPARE	20A	27	28	20A	SPARE
		29	30		

PANEL "L2"

125A, 208Y/120V, 3PH, 4W
SURFACE MOUNT
30 SPACE
22,000 A.I.C.
PROVIDE WITH HINGED COVER ENCLOSURE

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Revisions:

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BJH	BJH	BJH

Sheet title:

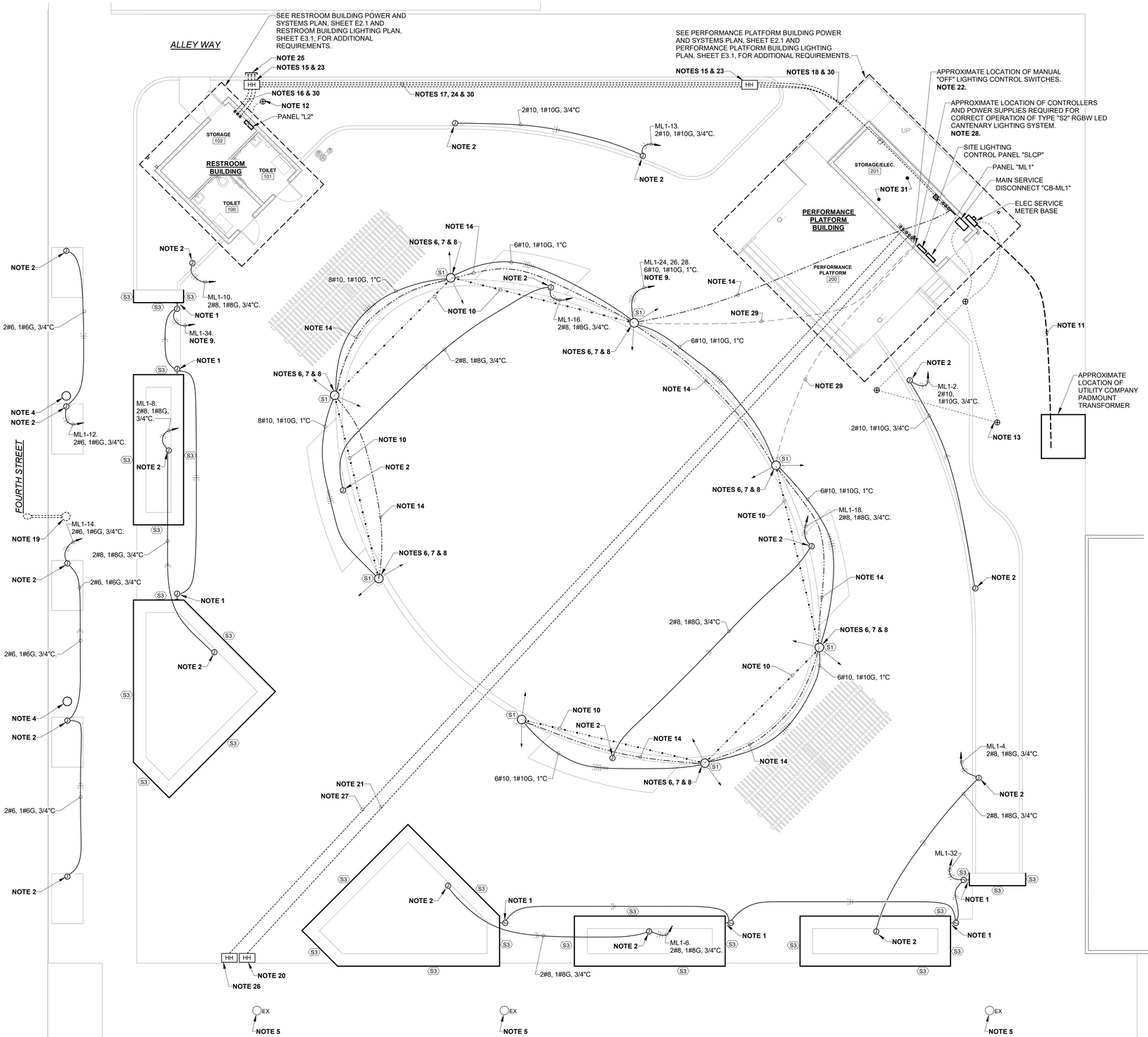
ONE-LINE DIAGRAM & BUSSING DIAGRAMS

Architect's Project No: 2404-183

Date: August, 2025

Drawing No: E4.1

1/24



SITE ELECTRICAL PLAN

1/8" = 1'-0"

1/8"=1'-0"

0' 2' 4' 8'

North

NOTES:

1. **ALTERNATE BID ITEM "LED ACCENT LIGHTING FOR SEAT WALLS".** ALL COSTS ASSOCIATED WITH THE WORK REQUIRED TO PROVIDE THE LED ACCENT LIGHTING FIXTURES AND ASSOCIATED CIRCUITS SHALL BE INCLUDED IN THIS ALTERNATE BID ITEM. REFER TO PROJECT MANUAL SPECIFICATION SECTION 012300 "ALTERNATES" FOR ADDITIONAL REQUIREMENTS. SEE LAxxx SERIES DRAWINGS FOR ADDITIONAL REQUIREMENTS. INSTALL THE DRIVER/POWER SUPPLY(S) REQUIRED FOR TYPE "S3" LED ACCENT LIGHTING TAPE SYSTEM SHALL BE INSTALLED HIDDEN BEHIND THE REMOVABLE BENCH SIDE PLANK IN THIS GENERAL LOCATION.

2. PROVIDE POWER PEDESTAL WITH OUTDOOR RATED NEMA 5-20R GFCI DUPLEX RECEPTACLE. PROVIDE POWER PEDESTAL WITH 5x5 HINGE TOP OUTLET BOX WITH INTEGRAL BASE, 7 GAUGE STAINLESS STEEL BODY, 14 GAUGE COVER AND INSERT, AND 18" HEIGHT. PROVIDE STEEL REINFORCED CONCRETE BASE (DIMENSIONS: 4" MINIMUM PAST EXTERIOR ENCLOSURE BASE DIMENSIONS ON ALL SIDES AND 24" DEPTH. PROVIDE STAINLESS STEEL HARDWARE AND SECURE THE PEDESTAL TO THE CONCRETE BASE. PROVIDE PRODUCT BY PEDOC POWER SOLUTIONS, OR APPROVED EQUAL. SEE POWER PEDESTAL DETAIL, SHEET E1.1 FOR ADDITIONAL REQUIREMENTS. THE TOP OF CONCRETE BASE SHALL EXTEND 2" ABOVE THE FINAL GRADE (INCLUDING MULCH OR OTHER GROUND COVERING MATERIALS) WITHIN THE PLANTER BED AREAS. VERIFY THE REQUIRED TOP OF CONCRETE BASE WITH ARCHITECT PRIOR TO START OF ROUGH-IN. PEDESTALS SHALL BE INSTALLED SUCH THAT THEY ARE VERTICALLY STRAIGHT AND NOT ANGLED TO ONE SIDE. SEE "LAxxx" SERIES DRAWINGS AND DETAILS FOR ADDITIONAL REQUIREMENTS. THE CONTRACTOR SHALL INSTALL THE POWER PEDESTALS IN THE LOCATIONS AS INDICATED ON THE "LAxxx" SERIES DRAWINGS. DO NOT USE THIS DRAWING FOR INSTALLATION LOCATION.

3. PROVIDE POWER CIRCUIT TO RECEPTACLE FROM PANEL AND CIRCUIT NO. AS INDICATED USING 2#10, 1#10G IN 3/4"C.

4. ACORN POLE-TOP FIXTURE AND POLE. POLE AND FIXTURE SHALL MATCH THE EXISTING ACORN POLE-TOP FIXTURES AND POLES INSTALL ALONG MAIN STREET. REWORK THE EXISTING CIRCUIT WHICH FED THE REMOVED COBRA-HEAD LIGHTING FIXTURE & POLE ON 4TH STREET AND CONNECT TO NEW FIXTURE. COORDINATE ALL REQUIRED WORK WITH CENTERPOINT ENERGY PRIOR TO START OF DEMOLITION AND NEW CONSTRUCTION. THE CONTRACTOR SHALL INSTALL THE POLE & FIXTURE IN THE LOCATION AS INDICATED ON THE "LAxxx" SERIES DRAWINGS. DO NOT USE THIS DRAWING FOR INSTALLATION LOCATION. SEE "LAxxx" SERIES DRAWINGS AND DETAILS FOR ADDITIONAL REQUIREMENTS. PROVIDE STEEL REINFORCED CONCRETE BASE & GROUNDING ELECTRODE BONDED TO POLE.

5. EXISTING ACORN POLE-TOP FIXTURE AND POLE. POLE AND FIXTURE SHALL REMAIN OPERATIONAL. NO WORK.

6. LUMINAIRE / MEDIA LAWN POLE. THE CONTRACTOR SHALL INSTALL THE POLE & FIXTURE IN THE LOCATION AS INDICATED ON THE "LAxxx" SERIES DRAWINGS. DO NOT USE THIS DRAWING FOR INSTALLATION LOCATION. SEE "LAxxx" SERIES DRAWINGS AND DETAILS FOR ADDITIONAL REQUIREMENTS. PROVIDE STEEL REINFORCED CONCRETE BASE & GROUNDING ELECTRODE BONDED TO POLE.

7. CONTRACTOR SHALL AIM THE POLE FIXTURES IN THE GENERAL DIRECTIONS AS INDICATED TO PROVIDE MAXIMUM UNIFORM ILLUMINATION OF AREA. COORDINATE THE AIMING REQUIREMENTS WITH ARCHITECT.

8. LIGHTING FIXTURE POLE LOCATIONS SHALL BE PROVIDED WITH A QUANTITY OF FOUR (SEPARATELY CONTROLLED) LIGHTING CIRCUITS AS FOLLOWS:
CIRCUIT NO. 1 - POLE TOP FIXTURE
CIRCUIT NO. 2 - TOP FLOOD FIXTURE (AIMED OUTSIDE THE PLAZA OVAL)
CIRCUIT NO. 3 - LOWER FLOOD FIXTURE (AIMED INSIDE THE PLAZA OVAL)
CIRCUIT NO. 4 - CANTENARY LIGHTING.

9. ROUTE CIRCUITS THROUGH LIGHTING CONTROL PANEL "SLCP" AND MANUAL "OFF" CONTROL SWITCHES. SEE LIGHTING CONTROL PANEL SCHEDULE, SHEET E1.2, AND LIGHTING CONTROL DIAGRAM, SHEET E1.2, FOR ADDITIONAL REQUIREMENTS.

10. CANTENARY LIGHTING STRING (FIXTURE TYPE "S2"). SEE "LAxxx" SERIES DRAWINGS AND DETAILS FOR ADDITIONAL REQUIREMENTS.

11. UNDERGROUND UTILITY FEED FOR POWER TO PERFORMANCE PLATFORM BUILDING. PROVIDE ALL INSTALLATION PER CENTERPOINT'S REQUIREMENTS. COORDINATE ALL REQUIREMENTS WITH CENTERPOINT PRIOR TO PURCHASE OF MATERIALS AND START OF CONSTRUCTION.

12. PROVIDE 3/4"(DIA) x 120"(L) COPPER-CLAD GROUNDING ELECTRODE. BOND THE GROUNDING ELECTRODE TO THE EQUIPMENT GROUND BUS WITHIN PANEL "L2" USING #3AWG INSULATED COPPER CABLE. INSTALL WITHIN RIGID STEEL CONDUIT WHERE ROUTED EXPOSED.

13. TRIAD GROUNDING ELECTRODE SYSTEM. SEE GROUNDING ELECTRODE SYSTEM AND GROUNDING SYSTEM RISER DIAGRAM DETAILS, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.

14. PROVIDE 1" CONDUIT WITH PULL STRING FOR FUTURE AUDIO SOUND SYSTEM.

15. HANDHOLE FOR LOW VOLTAGE COMMUNICATION CABLES. SEE HANDHOLE DETAILS, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.

16. PROVIDE THREE 3" CONDUITS FROM HANDHOLE AND STUB 16" A.F.F. IN RESTROOM BUILDING STORAGE ROOM. PROVIDE PULL STRING IN EACH CONDUIT.

17. PROVIDE THREE 3" CONDUITS FROM HANDHOLE TO HANDHOLE. PROVIDE PULL STRING IN EACH CONDUIT.

18. PROVIDE THREE 3" CONDUITS FROM HANDHOLE AND STUB 16" A.F.F. IN PERFORMANCE PLATFORM BUILDING STORAGE / ELEC ROOM. PROVIDE PULL STRING IN EACH CONDUIT.

19. EXISTING COBRAHEAD FIXTURE AND LIGHTING POLE. THIS POLE SHALL BE DISCONNECTED AND REMOVED (AS PART OF A SEPARATE CONTRACT WITH CENTERPOINT ENERGY) WITH TWO NEW ACORN TYPE POLE TOP FIXTURES AND POLES IN NEW LOCATIONS ALONG 4TH STREET.

20. HANDHOLE FOR FUTURE POWER CIRCUITS. SEE HANDHOLE DETAILS, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.

21. PROVIDE THREE 3" CONDUITS FROM HANDHOLE AND STUB 16" A.F.F. IN PERFORMANCE PLATFORM BUILDING STORAGE / ELEC ROOM. PROVIDE PULL STRING IN EACH CONDUIT. (FOR FUTURE ELECTRIC POWER CIRCUITS).

22. SEE PERFORMANCE PLATFORM BUILDING LIGHTING PLAN, SHEET E3.1, AND LIGHTING CONTROL DIAGRAM, SHEET E1.2, FOR ADDITIONAL REQUIREMENTS.

23. INSTALL HANDHOLES TIGHT AGAINST THE CONCRETE PLANTER CURB.

24. INSTALL ALL CONDUIT RACEWAYS SUCH THAT THEY ARE WITHIN 2'-0" OF THE CONCRETE PLANTER CURB.

25. PROVIDE THREE 3" CONDUITS FROM HANDHOLE AND STUB INTO ALLEY. CAP CONDUIT ENDS. (FOR TELCOM UTILITY SERVICE CABLES INTO RESTROOM BUILDING STORAGE ROOM).

26. HANDHOLE FOR FUTURE COMMUNICATIONS CIRCUITS. SEE HANDHOLE DETAILS, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.

27. PROVIDE TWO 3" CONDUITS FROM HANDHOLE AND STUB 16" A.F.F. IN PERFORMANCE PLATFORM BUILDING STORAGE / ELEC ROOM. PROVIDE PULL STRING IN EACH CONDUIT. (FOR FUTURE COMMUNICATION CIRCUITS).

28. PROVIDE POWER SUPPLIES AND OFF-LINE CONTROLLER UNITS IN THIS GENERAL LOCATION AS REQUIRED FOR CONTROL OF THE TYPE "S2" RGBW LED CANTENARY LIGHTING SYSTEMS. INSTALL DEVICES IN MANNER TO MAXIMIZE HORIZONTAL SPARE SPACE ON WALL. PROVIDE POWER CIRCUIT TO POWER SUPPLIES FROM PANEL "ML1" CIRCUIT NO 30 USING 2#12, 1#12G IN 3/4"C.

29. POWER AND CONTROL CIRCUITS/CABLES INSTALLED IN UNDERGROUND 1" CONDUIT FROM POWER SUPPLIES/CONTROLLERS FOR CANTENARY LIGHTING STRING (FIXTURE TYPE "S2"). SEE "LAxxx" SERIES DRAWINGS AND DETAILS FOR ADDITIONAL REQUIREMENTS. INSTALL SUCH THAT THE "DATA OUT" CABLE LENGTH FROM THE CONTROLLER/POWER SUPPLY TO THE FIRST LED GLOBE IS LESS THAN 80FEET. THE TOTAL "DATA OUT" CABLE LENGTH TO THE LAST LED GLOBE SHALL NOT EXCEED 260 FEET.

30. PROVIDE A QUANTITY OF EIGHT CAT 6 CABLES (WITHIN ONE OF THE CONDUITS) RATED FOR USE IN UNDERGROUND CONDUIT ENVIRONMENTS FROM THE RESTROOM BUILDING STORAGE ROOM 102 TO THE PERFORMANCE PLATFORM BUILDING STORAGE ROOM 201. SIX OF THE CABLES SHALL BE LEFT UNTERMINATED (FOR FUTURE USE) WITH A MINIMUM OF 20FT OF CABLE COILED AND SUPPORTED HIGH ON THE STORAGE ROOM WALLS AT EACH END. THE REMAINING TWO CABLES SHALL BE TERMINATED ON EACH END AND SHALL BE RESERVED FOR USE WITH THE FUTURE WI-FI SYSTEM. SEE RESTROOM BUILDING POWER AND SYSTEMS PLAN AND THE PERFORMANCE PLATFORM BUILDING POWER & SYSTEMS PLAN, SHEET E2.1, FOR ADDITIONAL REQUIREMENTS REGARDING THE TWO TERMINATED DATA CABLES. PROVIDE LABELS ON EACH END OF ALL OF THE CABLES IDENTIFYING THE CABLES.

31. INSTALLATION OF DISTRIBUTION EQUIPMENT, CONDUIT STUB-UPS AND LIGHTING CONTROL EQUIPMENT AND DEVICES SHALL BE SHIFTED TO THE EAST END OF THE STORAGE ROOM AS REQUIRED TO PROVIDE MAXIMUM UNHINDERED SPACE AT THE WEST END OF THE STORAGE ROOM FOR STORAGE OF OWNER EQUIPMENT.

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SITE ELECTRICAL PLAN

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