

BALTIMORE CITY RECREATION & PARKS

MORRELL PARK FIELD HOUSE

2415 TOLLEY STREET
BALTIMORE, MARYLAND, 21230
CONTRACT NO. - RP21832

BID SET

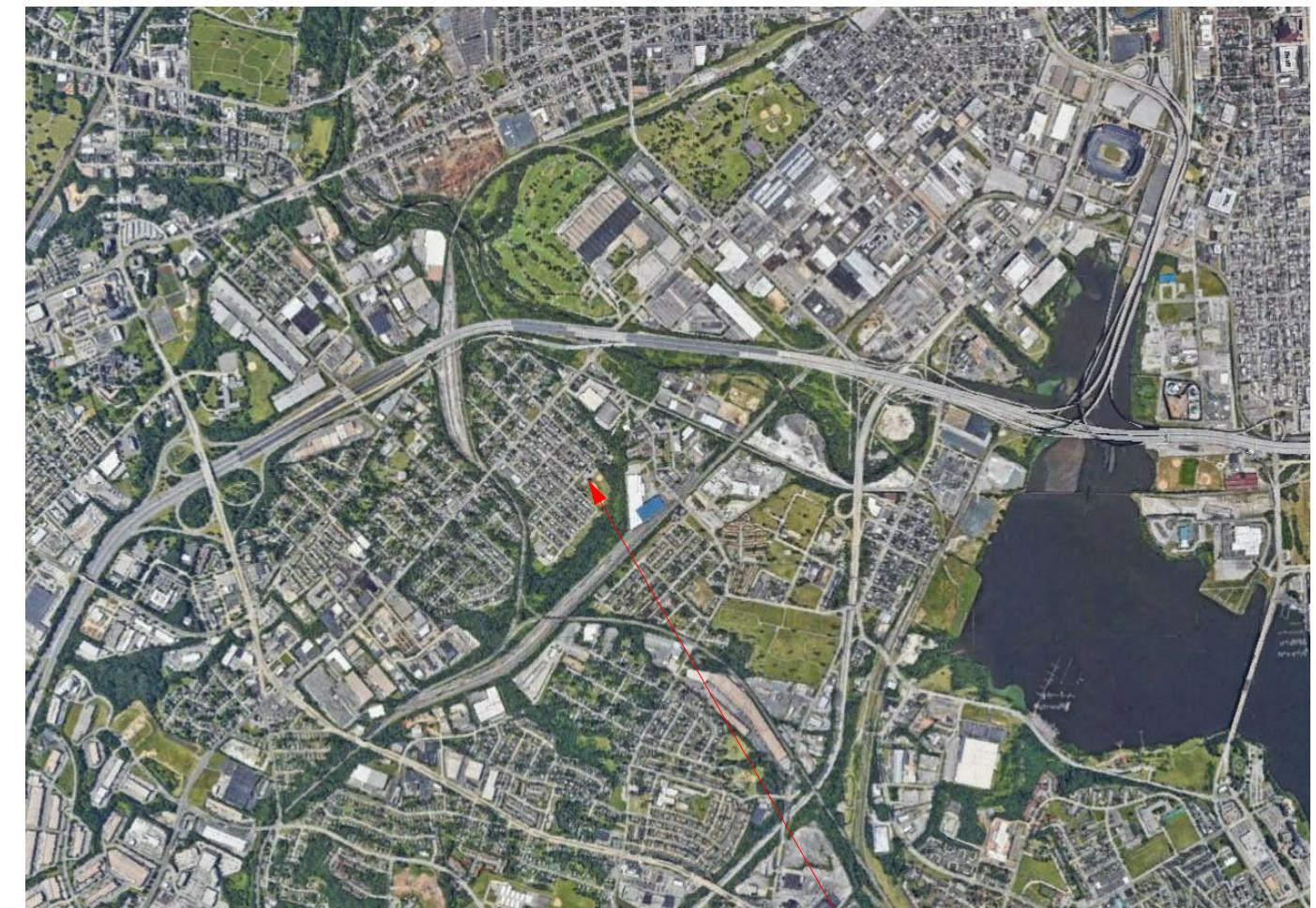
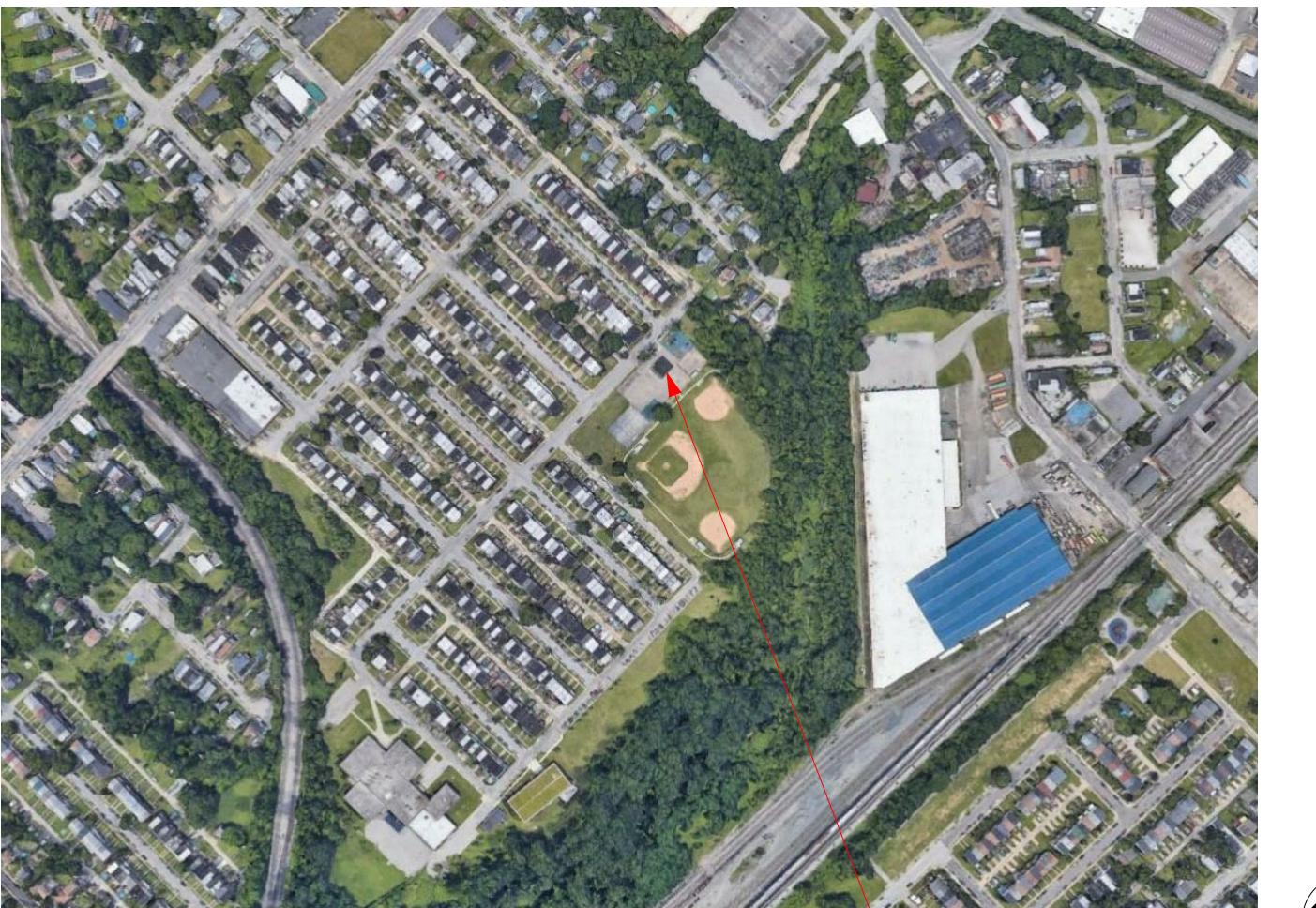
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	ARCHITECT'S STAMP	VICINITY MAP	LOCATION MAP
	<p>I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENCED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.</p> <p>LICENSE NUMBER _____</p> <p>EXPIRATION DATE _____</p>	 <p>SITE LOCATION</p>	 <p>SITE LOCATION</p>

BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230

Murphy & Dittenhafer
A R C H I T E C T S

228 West Market Street, York, Pennsylvania 17401
717-843-2449 fax
717-843-8627 voice

Mark	Date	Description
1	8/3/2021	50% CONSTRUCTION DOCUMENTS
2	12/3/2021	100% CONSTRUCTION DOCUMENTS
3	8/8/2025	BID SET

PROJECT NO: 20120
DRAWN BY: KCG
CHECKED BY: RDT
COVER SHEET
SHEET CS-1

CODE SUMMARY

BCRP - MORRELL PARK FIELD HOUSE CODE STUDY

Building regulatory requirements and recommended standards applicable to this project were reviewed and analyzed by Murphy & Dittenhafer Architects. A detailed report of the Architect's study is outline below:

Municipal Enforcement: City of Baltimore

Applicable Codes: This project is subject to compliance with the following applicable codes as enforced by Baltimore City:

- 2018 International Building Code
- 2017 National Electrical Code
- 2018 International Fuel Gas Code
- 2018 International Mechanical Code
- 2018 International Plumbing Code
- 2018 International Fire Code
- 2018 International Energy Conservation Code
- 2018 International Green Construction Code
- COMAR

Applicability of Codes: This project is being reviewed as New Construction as defined in the 2018 International Building Code.

Occupancy: Business

Construction Type: Type II-B

Sprinklered: No

Exits Provided: 1

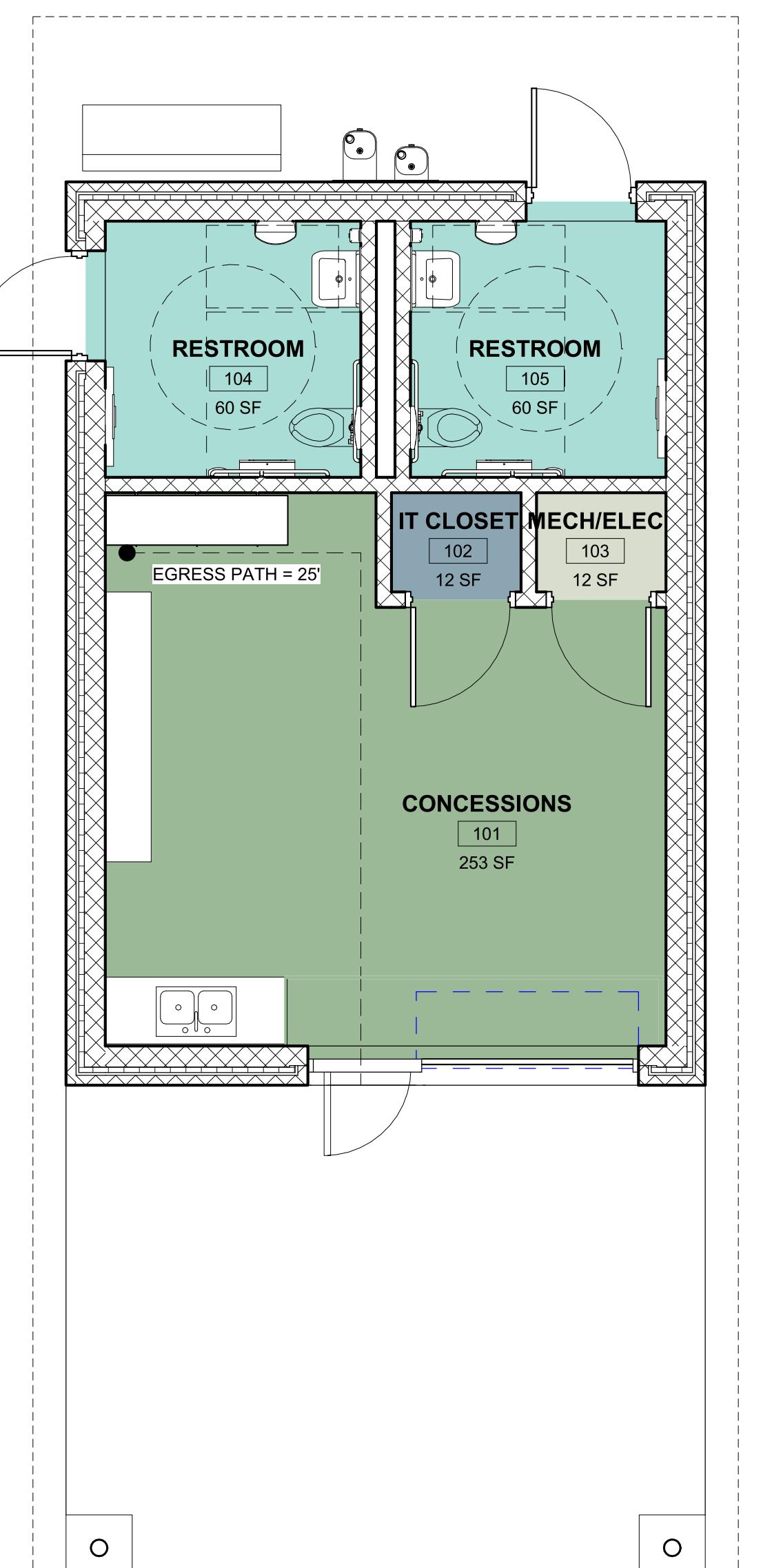
Building Area: 530 SF

Building Occupant Load: 4 Occupants

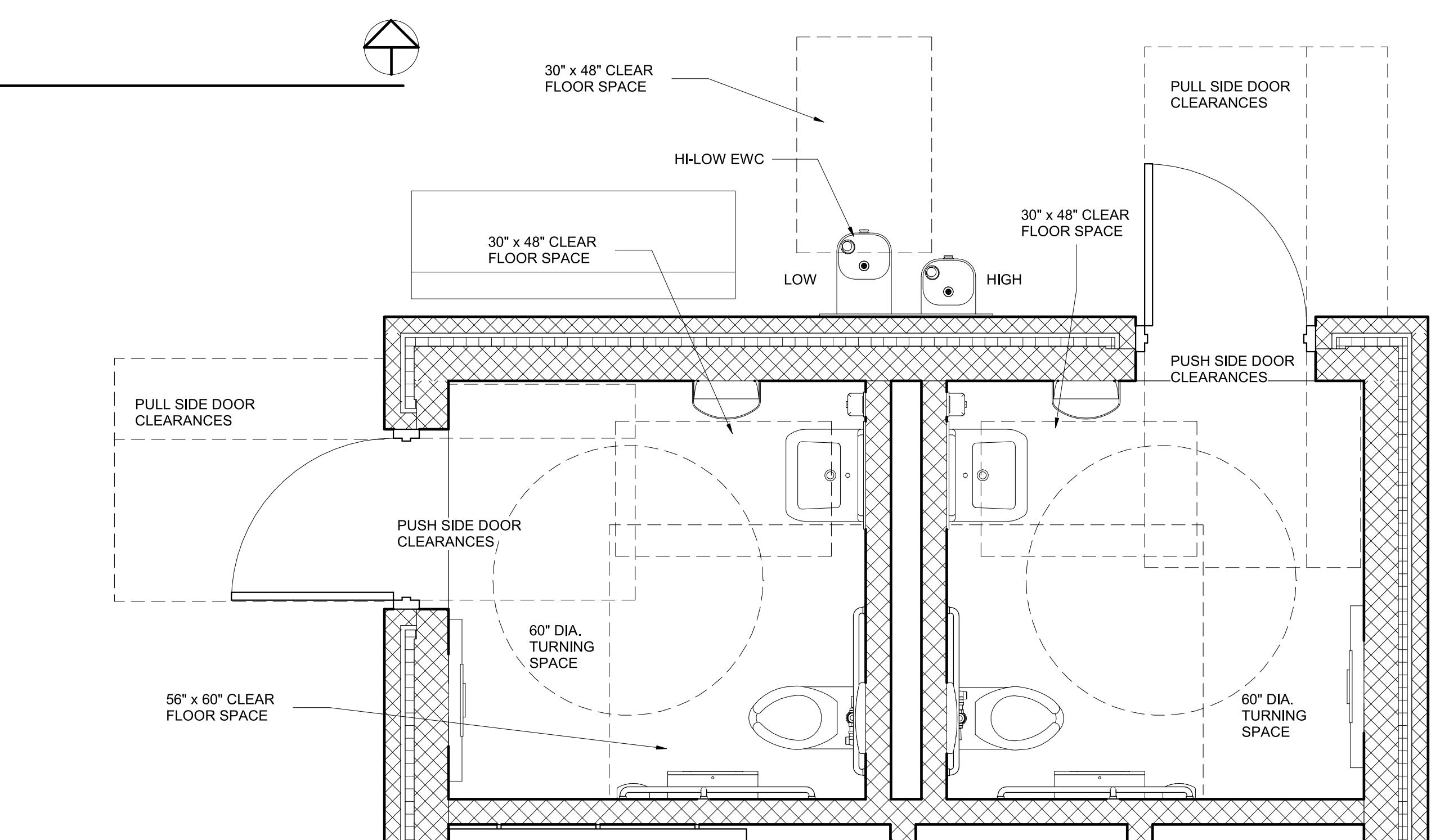
International Building Code 2018 Summary:

- Building Areas by Floor:
 - First Floor = 530 GSF
- 2018 IBC CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION
 - Per 304.1 Occupancy Classification = Business
- 2018 IBC CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS
 - Per Table 504.3 Allowable Building Height in Feet Above Grade Plane Occupancy Classification B, Type IIB = 55 Feet (NS)
 - Per Table 504.4 Allowable Number of Stories Above Grade Plane Occupancy Classification B, Type IIB = 3 Stories (NS)
 - Per Table 505.2 Allowable Area Factor in Square Feet Occupancy Classification B, Type IIB = 23,000
- 2018 IBC CHAPTER 6: TYPES OF CONSTRUCTION
 - Table 601 Fire - Resistance Rating Requirements for Building Elements
 - Primary Structural Frame = 0 Hours
 - Bearing Walls (Exterior) = 0 Hours
 - Bearing Wall (Interior) = 0 Hours
 - Nonbearing Walls (Exterior) = 0 Hours
 - Nonbearing Walls (Interior) = 0 Hours
 - Floor Construction = 0 Hours
 - Roof Construction = 0 Hours
 - Per Section 602.2 Type II construction are those types of construction in which the building elements listed in Table 601 are of noncombustible materials, except as permitted in Section 603 and elsewhere in this code.
- 2018 IBC CHAPTER 10: MEANS OF EGRESS
 - Building occupant Load:
 - First Floor: 4 Occupants
 - Required Means of Egress:
 - First Floor: 4 Occupants @ 0.2 = 0.8" required < 34" provided
- 2018 IBC CHAPTER 29: PLUMBING SYSTEMS
 - Total Occupant Count: 4 Occupants
 - 2 Female
 - 2 Male
 - Per Table 2902.1 Minimum Number of Required Plumbing Fixtures
 - a. Water Closets:
 - 1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50 = 0.08 = 1 required
 - 2 Water Closets Provided
 - b. Lavatories:
 - 1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80 = 0.1 = 1 required
 - 2 Lavatories Provided
 - c. Drinking Fountain:
 - 1 per 100 = 0.04 = 1 required
 - 1 High / Low Drinking Fountain Provided
 - d. Service Sink
 - 1 Service Sink Required
 - Exception: For business and mercantile classifications with an occupant load of 15 or fewer, a service sink shall not be required.
 - 1 Service Sink Provided - to meet client needs**

CODE PLANS



① FIRST FLOOR - CODE PLAN
1/4" = 1'-0"



② CODE PLAN - RESTROOMS 104 & 105
1/2" = 1'-0"

OCCUPANT LOAD					
ROOM NUMBER	ROOM NAME	TABLE 1004.5	ROOM AREA (NET SF)	S.F. Per Person	OCCUPANT LOAD
101	CONCESSIONS	BUSINESS	253 SF	150	2
102	IT CLOSET	MECHANICAL EQUIPMENT	12 SF	300	1
103	MECH/ELEC	STORAGE	12 SF	300	1

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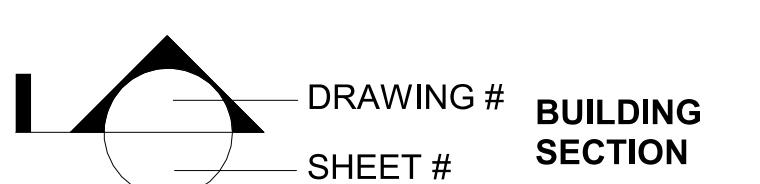
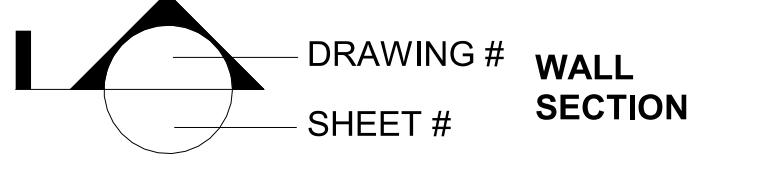
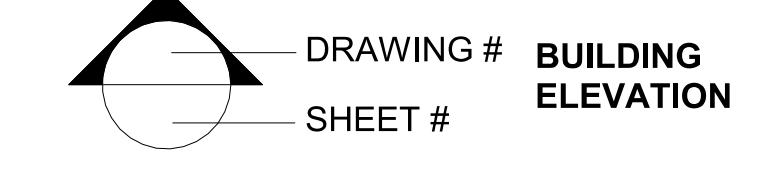
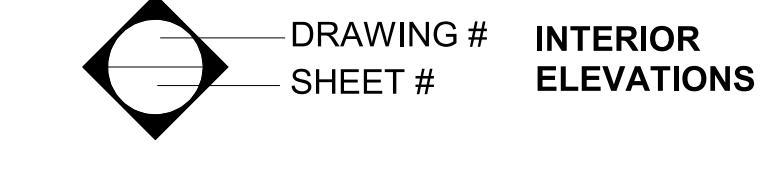
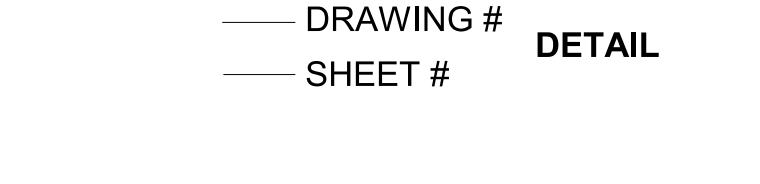
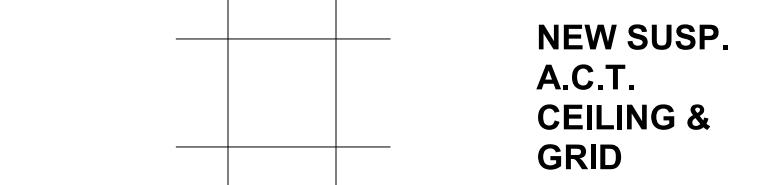
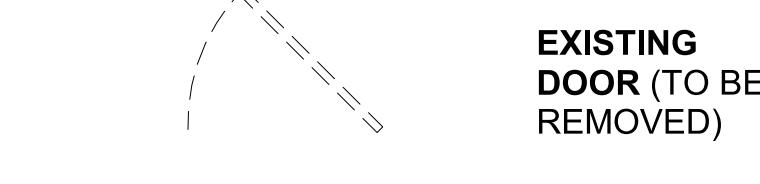
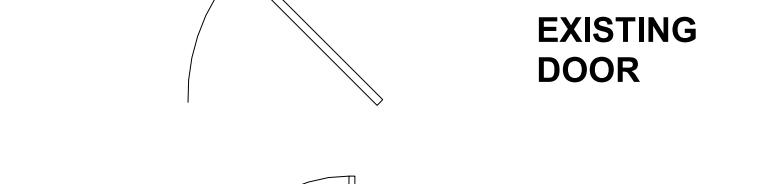
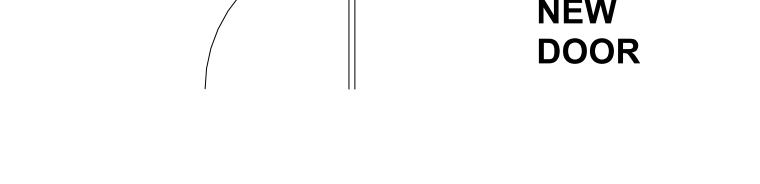
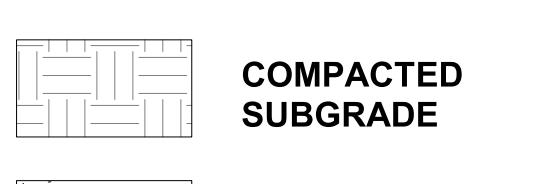
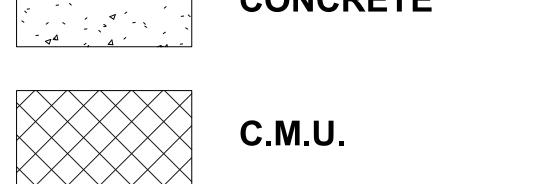
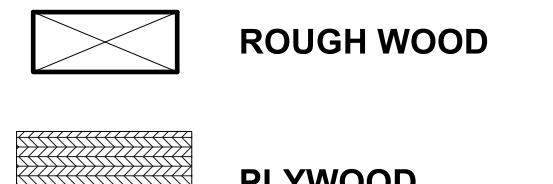
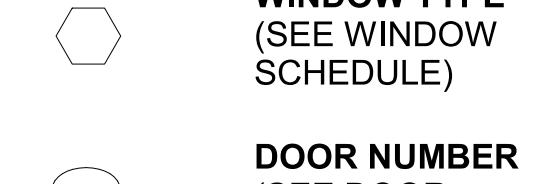
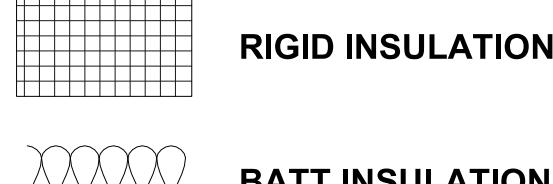
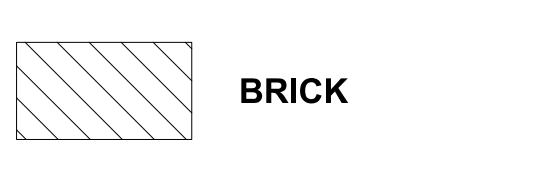
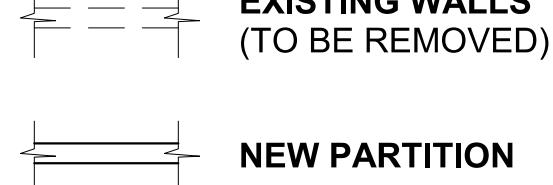
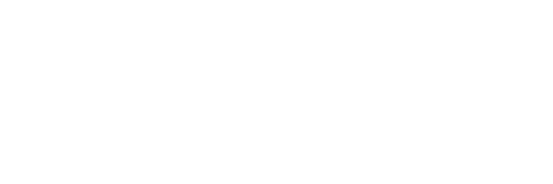
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CODE
SUMMARY

SHEET
CS-2

SHEET LIST		ABBREVIATIONS		SYMBOLS		BALTIMORE CITY RECREATION & PARKS MORRELL PARK FIELD HOUSE 2415 TOLLEY ST., BALTIMORE, MD 21230																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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DEMOLITION</td> </tr> <tr> <td>A-101</td> <td>FIRST FLOOR PLAN</td> </tr> <tr> <td>A-102</td> <td>ROOF PLAN</td> </tr> <tr> <td>A-103</td> <td>FIRST FLOOR REFLECTED CEILING PLAN</td> </tr> <tr> <td>A-201</td> <td>EXTERIOR ELEVATIONS</td> </tr> <tr> <td>A-301</td> <td>BUILDING SECTIONS</td> </tr> <tr> <td>A-302</td> <td>BUILDING SECTIONS</td> </tr> <tr> <td>A-303</td> <td>WALL SECTIONS</td> </tr> <tr> <td>A-401</td> <td>ENLARGED PLAN - CONCESSIONS</td> </tr> <tr> <td>A-402</td> <td>ENLARGED PLAN - RESTROOMS</td> </tr> <tr> <td>A-501</td> <td>COLUMN PIER DETAILS</td> </tr> <tr> <td>A-502</td> <td>ROOF DETAILS</td> </tr> <tr> <td>A-503</td> <td>GLULAM PROFILES</td> </tr> <tr> <td>A-601</td> <td>DOOR SCHEDULE AND DETAILS</td> </tr> <tr> <td>A-602</td> <td>PARTITION TYPES & FINISH SCHEDULE</td> </tr> <tr> <td>A-603</td> <td>SIGNAGE TYPES & SIGNAGE PLAN</td> </tr> <tr> <td colspan="2">STRUCTURAL</td> </tr> <tr> <td>S-001</td> <td>PERSPECTIVE</td> </tr> <tr> <td>S-100</td> <td>GENERAL NOTES</td> </tr> <tr> <td>S-201</td> <td>FIRST FLOOR & FOUNDATION PLAN</td> </tr> <tr> <td>S-202</td> <td>ROOF FRAMING PLAN</td> </tr> <tr> <td>S-301</td> <td>TYPICAL DETAILS</td> </tr> <tr> <td>S-302</td> <td>TYPICAL DETAILS</td> </tr> <tr> <td>S-401</td> <td>SECTIONS AND DETAILS</td> </tr> <tr> <td>S-402</td> <td>SECTIONS AND DETAILS</td> </tr> <tr> <td colspan="2">MECHANICAL</td> </tr> <tr> <td>M-001</td> <td>MECHANICAL LEGENDS AND GENERAL NOTES</td> </tr> <tr> <td>M-101</td> <td>MECHANICAL PLANS</td> </tr> <tr> <td>M-102</td> <td>MECHANICAL SCHEDULE AND DETAILS</td> </tr> <tr> <td colspan="2">ELECTRICAL</td> </tr> <tr> <td>E-001</td> <td>ELECTRICAL LEGENDS AND GENERAL NOTES</td> </tr> <tr> <td>ME-101</td> <td>SITE UTILITY PLAN</td> </tr> <tr> <td>E-101</td> <td>LIGHTING PLANS</td> </tr> <tr> <td>E-201</td> <td>ELECTRICAL PLANS & PANEL SCHEDULE</td> </tr> <tr> <td colspan="2">PLUMBING</td> </tr> <tr> <td>P-001</td> <td>PLUMBING LEGEND AND GENERAL NOTES</td> </tr> <tr> <td>P-101</td> <td>PLUMBING PLANS</td> </tr> <tr> <td>P-102</td> <td>PLUMBING DETAILS AND RISER DIAGRAMS</td> </tr> </tbody> </table>	DRAWING INDEX		SHEET NUMBER	SHEET NAME	GENERAL		CS-1	COVER SHEET	CS-2	CODE SUMMARY	CS-3	ABBREVIATIONS, SYMBOLS, & SHEET LIST	CIVIL		C-1.00	GENERAL NOTES	C-2.00	EXISTING CONDITION & DEMOLITION PLAN	C-3.00	SITE & GRADING PLAN	C-4.00	PAVING PLAN	C-5.00	UTILITY PLAN & PROFILE	C-5.01	UTILITY PROFILES	C-6.00	EROSION & SEDIMENT CONTROL PLAN	C-6.01	ESC DRAINAGE AREA MAPS	C-6.02	EROSION & SEDIMENT CONTROL DETAILS	C-6.03	EROSION & SEDIMENT CONTROL NOTES	C-6.04	STABILIZATION NOTES	C-6.05	STABILIZATION NOTES	C-7.00	NATURAL RESOURCES PLAN	C-8.00	BORING LOGS	ARCHITECTURAL		AD-100	DEMOLITION AND HAZMAT NOTES	AD-101	FIRST FLOOR DEMOLITION PLAN	AD-102	CEILING DEMOLITION PLAN	AD-103	ROOF DEMOLITION PLAN	AD-201	EXTERIOR ELEVATIONS - 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OR FLR.</td> <td>FLOOR</td> <td></td> <td></td> </tr> <tr> <td>FOM</td> <td>FACE OF MASONRY</td> <td></td> <td></td> </tr> <tr> <td>FT</td> <td>FOOT, FEET</td> <td></td> <td></td> </tr> <tr> <td>F.V.W.A.</td> <td>FIELD VERIFY WITH ARCHITECT</td> <td></td> <td></td> </tr> <tr> <td>GA</td> <td>GAUGE</td> <td></td> <td></td> </tr> <tr> <td>GALV</td> <td>GALVANIZED</td> <td></td> <td></td> </tr> <tr> <td>GYP. 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WATER CLOSET	DIA	DIAMETER	WD.	WOOD	DS	DOWN SPOUT	W/O	WITHOUT	DWG.	DRAWING			E.J.	EXPANSION JOINT			EL.	ELEVATOR			ELEC.	ELECTRICAL			ELEV.	ELEVATION			ETC	ETCETERA			E.T.R.	EXISTING TO REMAIN			EQUIP.	EQUIPMENT			EXIST.	EXISTING			EXT.	EXTERIOR			F.E.C.	FIRE EXTINGUISHER			F.D.	CABINET			F.F.E.	FLOOR DRAIN			FIN	FLOOR			FL. OR FLR.	FLOOR			FOM	FACE OF MASONRY			FT	FOOT, FEET			F.V.W.A.	FIELD VERIFY WITH ARCHITECT			GA	GAUGE			GALV	GALVANIZED			GYP. BD.	GYPSUM BOARD			GSF	GROSS SQUARE FEET			GWB	GYPSUM WALL BOARD			GT	GLAZING TYPE			H OR HT	HEIGHT			HC	HANDICAPPED			H.M.	HOLLOW METAL			HORIZ.	HORIZONTAL			HR	HOUR			HVAC	HEATING/VENTILATION, AIR CONDITIONING			IN	INCH			INSUL.	INSULATION			INT.	INTERIOR			JAN.	JANITOR			JT	JOINT			L	LENGTH			LAV.	LAVATORY			L.H.	LEFT HAND			MACH.	MACHINE			MATL.	MATERIAL			MAX.	MAXIMUM			M.E.	MATCH EXISTING			MECH.	MECHANICAL			MEP	MECHANICAL/ELECTRICAL/PLUMBING			MIN.	MINIMUM			MISC.	MISCELLANEOUS			M.O.	MASONRY OPENING			MTD	MOUNDED			MTL	METAL			NO. OR #	NUMBER			NOM.	NOMINAL			N.I.C.	NOT IN CONTRACT			NSF	NET SQUARE FEET			N.T.S.	NOT TO SCALE			O.C.	ON CENTER			OPNG.	OPENING			P-LAM	PLASTIC LAMINATE			PLYWD	PLYWOOD			P.T.	PORCELAIN TILE			PTD.	PAINTED			REF.	REFRIGERATOR			REQ'D	REQUIRED			R.H.	RIGHT HAND			 <p>DRAWING # SHEET #</p> <p>BUILDING SECTION</p>  <p>DRAWING # SHEET #</p> <p>WALL SECTION</p>  <p>DRAWING # SHEET #</p> <p>BUILDING ELEVATION</p>  <p>DRAWING # SHEET #</p> <p>INTERIOR ELEVATIONS</p>  <p>DRAWING # SHEET #</p> <p>DETAIL</p>  <p>NEW SUSP. A.C.T. CEILING & GRID</p>  <p>EXISTING DOOR (TO BE REMOVED)</p>  <p>EXISTING DOOR</p>  <p>NEW DOOR</p>  <p>NEW PARTITION</p>  <p>COMPACTED SUBGRADE</p>  <p>CONCRETE</p>  <p>C.M.U.</p>  <p>ROUGH WOOD</p>  <p>PLYWOOD</p>  <p>FINISHED WOOD</p>  <p>WINDOW TYPE (SEE WINDOW SCHEDULE)</p>  <p>DOOR NUMBER (SEE DOOR SCHEDULE)</p>  <p>PARTITION TYPE</p>  <p>RIGID INSULATION</p>  <p>BATT INSULATION</p>  <p>BRICK</p>  <p>EXISTING WALLS (TO BE REMOVED)</p>	<table border="1"> <thead> <tr> <th>Mark</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8/3/2021</td> <td>50% CONSTRUCTION DOCUMENTS</td> </tr> <tr> <td>2</td> <td>12/3/2021</td> <td>100% CONSTRUCTION DOCUMENTS</td> </tr> <tr> <td>3</td> <td>8/8/2025</td> <td>BID SET</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>PROJECT NO: 20120 DRAWN BY: NFL CHECKED BY: KCG ABBREVIATIONS, SYMBOLS, & SHEET LIST SHEET CS-3</p> <p>Murphy & Dittnerhafer Associates 800 North Charles Street, Baltimore, Maryland 21201 410-625-4623 voice 410-625-4674 fax 228 West Market Street, York, Pennsylvania 17017 717-845-2449 voice 717-845-8627 fax</p>	Mark	Date	Description	1	8/3/2021	50% CONSTRUCTION DOCUMENTS	2	12/3/2021	100% CONSTRUCTION DOCUMENTS	3	8/8/2025	BID SET															
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GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" 1-800-257-7777 AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK.
- CONTRACTOR SHALL PROVIDE PRIVATE UTILITY LOCATOR TO LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION.
- TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON A FIELD RUN SURVEY PERFORMED BY BALTIMORE CITY DPN (AUGUST 2020) AND AVAILABLE AS-BUILT PLANS PROVIDED BY BALTIMORE CITY DPN.
- EXISTING UTILITY INFORMATION SHOWN HEREON IS BASED ON THE BEST AVAILABLE INFORMATION WHICH INCLUDES A FIELD SURVEY CONDUCTED BY BALTIMORE CITY DPN DURING AUGUST 2020, AS-BUILT WATER, WASTEWATER AND STORM DRAIN PLANS FROM BALTIMORE CITY DEPARTMENT OF PUBLIC WORKS.
- OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. MK CONSULTING ENGINEERS, LLC, DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.
- CONTRACTOR SHALL CALL "MISS UTILITY" (800-257-7777) AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.
- CONSTRUCTION OF THE PROPOSED UTILITIES WILL BE IN ACCORDANCE WITH THE BALTIMORE CITY PLUMBING CODE AND BY A QUALIFIED CONTRACTOR.
- NO WORK IS TO COMMENCE UNTIL ALL PERMITS HAVE BEEN OBTAINED.
- CONTRACTOR SHALL TEST PIT FOR LOCATION OF EXISTING UTILITIES TO VERIFY TIE-INS PRIOR TO STARTING CONSTRUCTION.
- EXISTING CURB AND GUTTER & CONCRETE SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT. NO PATCHING SHALL BE PERMITTED.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION.
- ALL CLEANOUTS LOCATED IN PAVED AREAS SHALL HAVE COUNTERSUNK LIDS.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF THE UNDERGROUND ELECTRIC SERVICE AND THE UNDERGROUND GAS SERVICE WITH THE BALTIMORE GAS, ELECTRIC COMPANY. SEE ELECTRICAL PLANS FOR DETAILS.
- CONTRACTOR SHALL ADJUST TOP OF EXISTING UTILITIES, I.E. MANHOLE FRAME AND COVER, INLET GRATES, ETC. TO FINISHED GRADE.
- SANITARY SEWER LINES OUTSIDE OF THE BUILDING WILL BE PVC CLASS SDR 35.
- ALL WATER PIPING, TUBING, FITTINGS AND JOINING METHODS SHALL BE ACCORDING TO BALTIMORE CITY STANDARDS & SPECIFICATIONS.
- SEE PLUMBING PLANS FOR CONTINUATION OF UTILITY CONNECTIONS TO THE BUILDING.
- SEE ELECTRICAL PLANS FOR SITE LIGHTING AND CONDUIT LOCATIONS.
- STORM DRAIN PIPE AND FITTINGS SHALL BE BLUE SEAL WATER-TIGHT CORRUGATED POLYETHYLENE PIPE (HDPE) OR APPROVED EQUAL (UNLESS NOTED OTHERWISE), AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC.
- ALL EXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IN THE EVENT THAT A PORTION OF A UTILITY IS TO BE REMOVED, THE CONTRACTOR SHALL TERMINATE AND CAP TO THE LIMITS INDICATED IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK SHOWN ON THESE DRAWINGS UNLESS OTHERWISE NOTED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
- CONTRACTOR SHALL SECURE THE CONSTRUCTION AREA AT THE END OF EACH WORKING DAY AND WILL INSPECT THE SECURITY FENCING TO INSURE ITS INTEGRITY.
- ALL CONSTRUCTION DEBRIS WILL BE REMOVED FROM THE SITE AND TAKEN TO AN APPROVED, PERMITTED DISPOSAL FACILITY. NO RUBBLE IS TO BE LEFT ON SITE.
- CONTRACTOR SHALL PROVIDE THE NECESSARY MEANS TO CONTROL DUST AND MAINTAIN BALTIMORE CITY AIR QUALITY STANDARDS DURING THE DEMOLITION AND REMOVAL OF SITE DEBRIS AND THE NEW CONSTRUCTION.
- CONTRACTOR SHALL SAWCUT EXISTING PAVING TO MINIMIZE DAMAGE TO EXISTING PAVING REMAINING.
- CONTRACTOR SHALL REMOVE EXISTING CURBS & CONCRETE WALKS TO THE NEAREST JOINT. NO PATCHING WILL BE PERMITTED.
- EXISTING UTILITIES TO BE ABANDONED IN PLACE UNLESS ENCOUNTERED DURING CONSTRUCTION, AT WHICH TIME THEY SHALL BE REMOVED IN THEIR ENTIRETY. IF ABANDONED IN PLACE, UTILITIES SHALL BE BACKFILLED WITH FLOWABLE FILL.
- THE DEMOLITION INFORMATION SHOWN ON THESE DRAWINGS IS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LIMITS OF DEMOLITION AND REMOVAL OF Affected SITE ITEMS.
- CONTRACTOR SHALL PROVIDE 8' HIGH TEMPORARY CONSTRUCTION FENCE AROUND THE LIMITS OF CONSTRUCTION. FINAL LOCATION OF THE FENCE SHALL BE COORDINATED WITH THE OWNER.
- THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A CONSTRUCTION MATERIAL AND WASTE MANAGEMENT PLAN IN ACCORDANCE WITH SECTION 1008 DEMOLITION OF THE "INTERNATIONAL GREEN CONSTRUCTION CODE".
- REFER TO ARCHITECTURAL PLANS FOR CONCRETE PAD LOCATIONS AT EXTERIOR DOORS AND ADDITIONAL CONTROL JOINT LOCATIONS.
- CONTRACTOR SHALL CONTACT THE OWNER 72 HOURS PRIOR TO COMMENCING ANY WORK.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OR DEMOLITION. ALL PROTECTIVE DEVICES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OR DEMOLITION.
- REFER TO THE GEOTECHNICAL REPORT FOR REMOVAL OF BUILDING SLAB, FOUNDATION & FOOTERS.
- FOR BORING LOGS SEE SHEET C8.00.
- ALL PAVEMENT & TRENCH REPAIR IN TOLLEY STREET SHALL BE PER BALTIMORE CITY STD DETAIL BC 516.19.
- FOR DRIVEWAY APRONS REPAIRS REFER TO CITY STANDARD DETAILS BC 500.01.
- FOR CURB AND GUTTER REPAIRS REFER TO CITY STANDARD DETAILS BC 620.06 & BC 620.11. EXISTING CURB AND GUTTER SHALL BE REPLACED IN KIND TO THE NEAREST EXISTING JOINT.
- FOR CONCRETE SIDEWALK REPAIRS REFER TO CITY STANDARD DETAILS BC 655.01 & BC 655.05. EXISTING SIDEWALK SHALL BE REPLACED TO THE NEAREST EXISTING JOINT.
- FOR SIDEWALK RAMP REPAIRS REFER TO CITY STANDARD DETAILS BC 655.11 - BC 655.13 & BC 655.40.
- WHERE NEW SIDEWALK CROSSES THE DRIVEWAY, MAINTAIN A 2% CROSS SLOPE TO COMPLY WITH THE ADA STANDARDS.
- FOR ALL ASPHALT, CONCRETE, AND GENERAL ROADWAY DETAILS, REFER TO THE LATEST VERSIONS.

UTILITY NOTES

- OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. MK CONSULTING ENGINEERS, LLC, DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION.
- CONTRACTOR SHALL CALL "MISS UTILITY" (800-257-7777) AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.
- CONSTRUCTION OF THE PROPOSED UTILITIES WILL BE IN ACCORDANCE WITH THE BALTIMORE CITY PLUMBING CODE AND BY A QUALIFIED CONTRACTOR.
- NO WORK IS TO COMMENCE UNTIL ALL PERMITS HAVE BEEN OBTAINED.
- CONTRACTOR SHALL TEST PIT FOR LOCATION OF EXISTING UTILITIES TO VERIFY TIE-INS PRIOR TO STARTING CONSTRUCTION.
- EXISTING CURB AND GUTTER & CONCRETE SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT. NO PATCHING SHALL BE PERMITTED.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION.
- ALL CLEANOUTS LOCATED IN PAVED AREAS SHALL HAVE COUNTERSUNK LIDS.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF THE UNDERGROUND ELECTRIC SERVICE AND THE UNDERGROUND GAS SERVICE WITH THE BALTIMORE GAS, ELECTRIC COMPANY. SEE ELECTRICAL PLANS FOR DETAILS.
- CONTRACTOR SHALL ADJUST TOP OF EXISTING UTILITIES, I.E. MANHOLE FRAME AND COVER, INLET GRATES, ETC. TO FINISHED GRADE.
- SANITARY SEWER LINES OUTSIDE OF THE BUILDING WILL BE PVC CLASS SDR 35.
- ALL WATER PIPING, TUBING, FITTINGS AND JOINING METHODS SHALL BE ACCORDING TO BALTIMORE CITY STANDARDS & SPECIFICATIONS.
- SEE PLUMBING PLANS FOR CONTINUATION OF UTILITY CONNECTIONS TO THE BUILDING.
- SEE ELECTRICAL PLANS FOR SITE LIGHTING AND CONDUIT LOCATIONS.
- STORM DRAIN PIPE AND FITTINGS SHALL BE BLUE SEAL WATER-TIGHT CORRUGATED POLYETHYLENE PIPE (HDPE) OR APPROVED EQUAL (UNLESS NOTED OTHERWISE), AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC.
- ALL EXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IN THE EVENT THAT A PORTION OF A UTILITY IS TO BE REMOVED, THE CONTRACTOR SHALL TERMINATE AND CAP TO THE LIMITS INDICATED IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK SHOWN ON THESE DRAWINGS UNLESS OTHERWISE NOTED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THE PLANS PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION THE CONTRACTOR SHALL VERIFY THAT ALL EXISTING UTILITIES WILL TIE IN WITH PROPOSED UTILITIES AS SHOWN.
- SEE MECHANICAL / ELECTRICAL / PLUMBING PLANS FOR SITE ELECTRICAL AND BUILDING PLUMBING INFORMATION.
- ALL VALVES SHALL BE IN STANDARD CONCRETE VAULTS IN ACCORDANCE WITH BALTIMORE CITY STANDARD DETAILS.
- ALL CHANNELS IN MANHOLES SHALL BE CONSTRUCTED TO CONFORM AS CLOSE AS POSSIBLE TO THE STANDARD CHANNELS CALLED FOR IN THE UTILITY PROFILES.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR WORKING WITHIN THE LIMITS OF EXISTING BALTIMORE CITY RIGHT-OF-WAYS.
- GRAVEL CRADLE IS REQUIRED UNDER ALL PIPE. SEE BALTIMORE CITY STANDARD DETAILS BC 302.02 THRU 302.04.
- ALL BACKFILL SHALL BE MECHANICALLY TAMPED.
- CONTRACTOR SHALL PROVIDE PRIVATE UTILITY LOCATOR TO LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION.
- THE CONTRACTOR WILL BE REQUIRED TO HAND DIG AT CERTAIN LOCATIONS TO AVOID DISTURBING AND/OR DAMAGING EXISTING UTILITIES. ALL COSTS ASSOCIATED WITH SUCH HAND DIGGING SHALL BE CONSIDERED INCIDENTAL TO ALL UTILITY BID ITEMS AND NO SEPARATE PAYMENT WILL BE MADE.
- ALL DRAINAGE AND UTILITY STRUCTURES LOCATED WITHIN THE LIMITS OF CONSTRUCTION, IF FOUND DAMAGED OR IN NEED OF REPLACEMENT WILL BE REPORTED TO THE ON SITE CONSTRUCTION MANAGEMENT INSPECTOR, FOR FURTHER INVESTIGATION AND CONSIDERATION.
- WHEN IMPACTING OR CROSSING EXISTING UTILITIES, THE CONTRACTOR SHALL SUPPORT, BRACE AND PROTECT SUCH UTILITIES DURING CONSTRUCTION. SUPPORT OF EXISTING CONDUITS AND DUCTBANKS SHALL CONFORM TO STANDARD DETAIL BC 89.01. COST FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT AND NO ADDITIONAL PAYMENT WILL BE MADE. THE CONTRACTOR IS ALSO ADVISED TO EXERCISE EXTREME CARE WHEN DIGGING ADJACENT TO OR CROSSING EXISTING UTILITIES. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT NO COST TO THE CITY.
- WHEN INSTALLING NEW WATER MAINS, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL AND 10" HORIZONTAL CLEARANCE BETWEEN THE WATER MAINS AND EXISTING SEWER MAINS OR STORM DRAINS CONSIDERING EDGE TO EDGE DISTANCE. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SUCH THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. FOR CLEARANCE LESS THAN SPECIFIED WATER MAIN SHALL BE PROTECTED AS SHOWN ON PLANS. WATER MAIN SHALL HAVE A MINIMUM 12" VERTICAL CLEARANCE AT OTHER DRY UTILITY CROSSINGS.
- THE CONTRACTOR SHOULD TAKE PRECAUTION WHEN WORKING WITHIN CLOSE PROXIMITY OF SANITARY SEWERS, SEWER HOUSE CONNECTIONS AND SANITARY MANHOLES. ANY DAMAGE TO THE SEWER LINES OR MANHOLES AS A RESULT OF THE CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND AS PER THE CITY OF BALTIMORE STANDARDS. IN ADDITION ALL SANITARY SEWER STRUCTURES LOCATED WITHIN THE LIMITS OF CONSTRUCTION, IF FOUND IN NEED OF REPAIR OR REPLACEMENT WILL BE REPORTED TO THE ON SITE CONSTRUCTION MANAGEMENT INSPECTOR FOR FURTHER INVESTIGATIONS AND CONSIDERATION.
- ANY PROPOSED ADJUSTMENTS TO SANITARY SEWERS AND MANHOLES OR OTHER UTILITIES DURING CONSTRUCTION MUST BE APPROVED BY THE ENGINEER IN WRITING. A COPY OF AS-BUILTS FOR SUCH ADJUSTMENTS MUST BE PROVIDED TO THE ENGINEER AFTER CONSTRUCTION.

CONDUIT NOTES

- THE CONTRACTOR SHALL EXERCISE CAUTION WHILE WORKING NEAR THE BALTIMORE CITY CONDUIT DUCT SYSTEM. CONTRACTOR SHALL SUBMIT A WRITTEN WORK PLAN WHEN WORKING ADJACENT TO OR AROUND BALTIMORE CITY CONDUIT DUCT SYSTEMS.
- THE CONTRACTOR SHALL NOTIFY MR. ERNEST GEORGE, AT (410) 346-1515, OF BALTIMORE CITY DEPARTMENT OF TRANSPORTATION'S CONDUIT DIVISION AT LEAST (2) WEEKS PRIOR TO STARTING ANY CONSTRUCTION WORK. CABLE INSTALLATION BY EGE WILL BE CARRIED OUT WITHOUT COMPLETION OF AN INSPECTION BY CONDUIT MAINTENANCE.
- THE CONTRACTOR SHALL MAINTAIN 12 INCHES MINIMUM SEPARATION BETWEEN THE WATER MAINS AND ANY EXISTING CONDUIT INFRASTRUCTURE. WHERE WATER MAIN IS TO CROSS THE EXISTING CONDUIT SYSTEM, THE DUCT BANK SHALL BE SUPPORTED PER DETAIL BC 89.01. COST OF WHICH SHALL BE INCIDENTAL TO APPROPRIATE BID ITEMS.

SHEET INDEX

C1.00
C2.00
C3.00
C4.00
C5.00
C5.01
C6.00
C6.01
C6.02
C6.03
C6.04
C6.05
C7.00
C8.00

GENERAL NOTES
EXISTING CONDITIONS & DEMOLITION PLAN
FAIRWAY PLAN
FACILITY PLAN
UTILITY PLAN & PROFILES
UTILITY PROFILES
EROSION & SEDIMENT CONTROL PLAN
EROSION & SEDIMENT CONTROL AREA MAPS
EROSION & SEDIMENT CONTROL DETAILS
EROSION & SEDIMENT CONTROL NOTES
STABILIZATION NOTES
STABILIZATION NOTES
NATURAL RESOURCES PLAN
BORING LOGS

EARTHWORK ANALYSIS

TOTAL LOT/SITE AREA: 6.84 AC.
TOTAL LIMIT OF DISTURBANCE: 4205 S.F. OR 0.10 AC.
TOTAL LIMIT OF WORK: 2560 S.F. OR 0.059 AC.
EARTHWORK:
CUT = 51 C.Y.
FILL = 61 C.Y.
TOTAL = 118 C.Y.
CUT / FILL RATIO = 0.93 : 1

EXCESS CUT MATERIAL SHALL BE DISPOSED OF OFFSITE AT A LOCATION WITH AN APPROVED SEDIMENT CONTROL PLAN.
NOTE:
ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF DETERMINING PERMITTING REQUIREMENTS. SINCE FINAL EARTHWORK QUANTITIES ARE BASED ON MANY VARIABLE CONDITIONS, OVER WHICH MK CONSULTING ENGINEERS, LLC, HAS NO CONTROL, INCLUDING VARIABILITY OF SOILS, ALLOWABLE SURVEY AND CONSTRUCTION TOLERANCES AND COMPACTION RATIOS. MK CONSULTING ENGINEERS, LLC, DOES NOT WARRANT OR GUARANTEE THE ACCURACY OF THE ESTIMATES FOR FINAL CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THEIR OWN ESTIMATES OF THE EARTHWORK QUANTITIES.

WATER NOTES

- THE CONTRACTOR SHALL NOTIFY THE WATER AND WASTEWATER MAINTENANCE DIVISION AT (410) 346-7810 AT LEAST TWO (2) WEEKS PRIOR TO START OF CONSTRUCTION.
- ALL NEW WATER MAINS SHALL BE ZINC COATED DUCTILE IRON PIPE CLASS 54 WITH A BITUMINOUS TOPCOAT, AS SPECIFIED HEREIN, AND IN ACCORDANCE WITH THE LATEST REVISION ANSI/AWWA C100/A21.50, ANSI/AWWA C151/A21.51, AND MANUFACTURERS RECOMMENDATION. NEW DUCTILE IRON FITTINGS SHALL BE 350 PSI PRESSURE RATING IN ACCORDANCE WITH THE LATEST REVISION OF ANSI/AWWA C10/A21.10 OR ANSI/AWWA C153/A21.53, AND SHALL BE PROVIDED WITH A ZINC BASE COAT AND BITUMINOUS TOPCOAT, OR FUSION-BONDED EPOXY COATING INSIDE AND OUTSIDE PER ANSI/AWWA C16/A21.16. INTERIOR SURFACES OF ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CLEANED AND LINED AT THE PIPE CASTING FACILITY WITH DOUBLE THICKNESS CEMENT MORTAR LINING APPLIED IN CONFORMANCE WITH THE ANSI/AWWA C104/A21.4, LATEST REVISIONS. MAXIMUM DEFLECTION OF THE PIPE JOINTS SHALL NOT EXCEED 80% OF THE MANUFACTURERS RECOMMENDATION.
- ALL NEW WATER MAINS SHALL BE INSTALLED WITH MIN. 4 FEET OF COVER UNLESS OTHERWISE NOTED ON THE PLANS. AT CROSSING UTILITIES, MIN. 3.5 FEET COVER SHALL BE MAINTAINED UNLESS SHOWN OTHERWISE OR DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL IDENTIFY ALL VALVES NEEDED FOR SHUTDOWN OF THE MAIN IF ANY PRIOR TO REQUESTING THE SHUTDOWN. THE CONTRACTOR SHALL SUBMIT THE BALTIMORE CITY & BALTIMORE COUNTY CONTRACTOR SHUTDOWN REQUEST FORM FOUND IN THE CONTRACT SPECIFICATIONS AT LEAST SEVEN (7) WORKING DAYS PRIOR TO THE REQUESTED SHUTDOWN DATE. ONLY BALTIMORE CITY DPN SHALL OPERATE THE VALVES.
- THE CONTRACTOR SHALL MAINTAIN UNINTERRUPTED SERVICE FOR ALL WATER SERVICE CONNECTIONS DISTURBED BY THESE CONSTRUCTION ACTIVITIES. SHOULD A SHORT DURATION SHUTDOWN BE NECESSARY, CONTRACTOR SHALL NOTIFY PROPERTIES AFFECTED BY A SHUTDOWN AT LEAST 48 HOURS PRIOR TO THE SHUTDOWN. COST SHALL BE INCIDENTAL TO THE APPROPRIATE BID ITEMS IN THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BLOCKING AND RESTRAINING ALL EXISTING VALVES, FITTINGS, AND PIPE AGAINST MOVEMENT PRIOR TO CUTTING AND REMOVAL OF EXISTING PIPE AND OR VALVES.
- THE CONTRACTOR SHALL INSTALL NEW THRUST BLOCK, BUTTRESSES, AND ANCHORS WHERE SPECIFIED ON THE DRAWINGS, IN ACCORDANCE WITH THE BALTIMORE CITY DPN STANDARD SPECIFICATIONS & DETAILS. THE CONTRACTOR SHALL MAKE SURE THAT THE NEW BUTTRESS IS COMPLETELY CURED BEFORE PUTTING THE NEW MAIN CONNECTIONS IN SERVICE.
- GENERALLY, CONNECTION OF NEW DUCTILE IRON PIPE TO THE EXISTING CAST IRON PIPE, AT LOCATIONS SHOWN ON THE CONTRACT DRAWINGS, SHALL BE MADE USING TRANSITION COUPLINGS. CONTRACTOR SHALL ONLY INSTALL INSULATING COUPLINGS ONLY WHEN SPECIFIED AS PART OF CORROSION PROTECTION, AT LOCATIONS SHOWN ON THE CONTRACT DRAWINGS.
- THE COMPLETED WATER MAINS MUST BE DISINFECTED AND TESTED IN ACCORDANCE WITH THE CITY STANDARDS AND THE LATEST VERSION OF AWWA STANDARD C651. RESULTS OF THE BACTERIOLOGICAL SAMPLES MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL.
- IN ACCORDANCE WITH CODE OF MARYLAND REGULATIONS (COMAR) 26.04.01.33, DIRECT AND INDIRECT ADDITIVES, SUPPLIERS OF WATER SHALL ONLY USE PRODUCTS (ANY MATERIALS THAT COME IN CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY) THAT MEET THE APPLICABLE AMERICAN NATIONAL STANDARDS INSTITUTE/NSF INTERNATIONAL (ANSI/NSF) STANDARDS FOR DIRECT OR INDIRECT DRINKING WATER ADDITIVES. THE PRODUCTS CAN ALSO BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY THE ANSI FOR SUCH TESTING (I.E. INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS RESEARCH AND TESTING, ONTARIO CA, UNDERWRITERS LABORATORY, NORTHBROOK IL, AND WATER QUALITY ASSOCIATION, LISLE IL).
- IN COMPLIANCE WITH COMAR 09.20.01.03 AND THE SAFE DRINKING WATER ACT (SECTION 1417(A)(4)(B)), MATERIALS THAT COME IN CONTACT WITH WATER INTENDED FOR USE IN PUBLIC WATER SUPPLY SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT, WHICH WENT INTO EFFECT IN MARYLAND IN JANUARY 2012.

Mark	Date	Description
1	08/08/2025	BID SET

PROFESSIONAL CERTIFICATE OF ACCURACY: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY APPROVED BY ME, AND THAT THEY ARE PREPARED IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF MARYLAND LICENSE NO. 2050, EXPIRATION DATE 11/2020.
PROFESSIONAL CERTIFICATE OF ACCURACY: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED AND APPROVED BY ME, AND THAT THEY ARE PREPARED IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF MARYLAND LICENSE NO. 3538, EXPIRATION DATE 11/2020.

PROJECT NO: 20120
DRAWN BY: VJ
CHECKED BY: AP

GENERAL NOTES

**BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230**

Murphy & Dittnerhauer
ARCHITECTS
800 North Charles Street, Baltimore, Maryland 21201
410-625-4823 voice 410-625-4671 fax

228 West Market Street, York, Pennsylvania 17401
717-845-5627 voice

20120
DRAWN BY: VJ
CHECKED BY: AP

Mark	Date	Description	BID SET
1	08/08/2025		

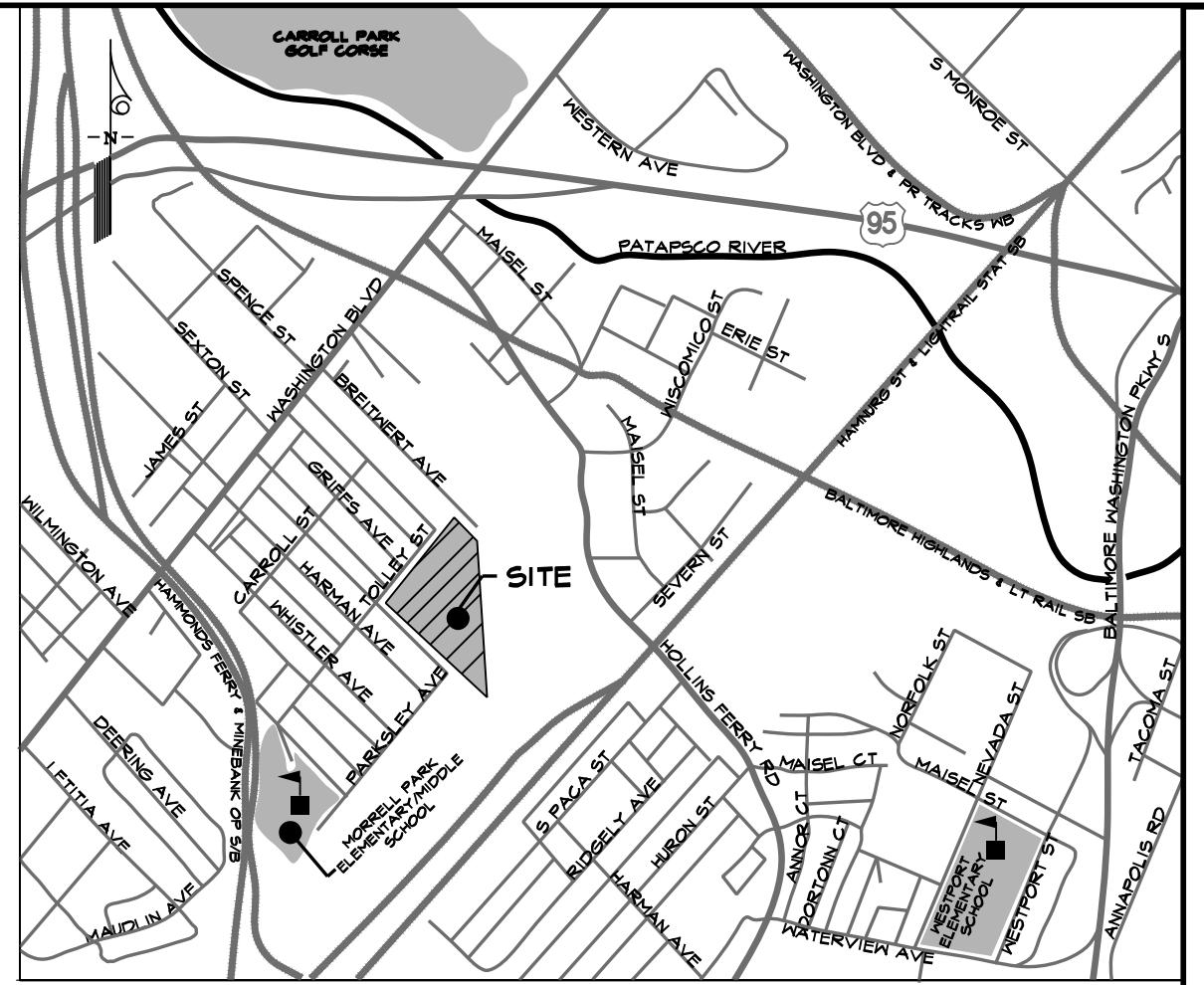
PROJECT NO: 20120
DRAWN BY: VJ
CHECKED BY: AP
EXISTING
CONDITION &
DEMOLITION PLAN
SHEET
C-2.00

BENCHMARK DATA

ALL HORIZONTAL AND VERTICAL SURVEY DATA CONTAINED HEREON ARE REFERENCED TO THE BALTIMORE CITY COORDINATE SYSTEM, AS DERIVED FROM THE FOLLOWING BALTIMORE CITY CONTROL STATIONS:

POINT #	NORTHING	EASTING	ELEVATION
TRAV-1	-11,490.84	-9,184.84	93.93
TRAV-2	-11,699.31	-9,335.65	95.74

ALL TRAVERSE POINT DATA CONTAINED HEREON ARE REFERENCED TO FIELD SHOT UTILITY STRUCTURES.



VICINITY MAP

SCALE: 1"=100'

LEGEND

95	RIGHT OF WAY LINE
96	EX. INDEX CONTOUR
97	EX. INTERMEDIATE CONTOUR
98	EX. CURB AND GUTTER
99	EX. CURB
100	EX. CHAINLINK FENCE
101	EX. SANITARY SEWER
102	EX. WATER
103	EX. GAS
104	EX. UNDERGROUND ELECTRIC
105	EX. OVERHEAD ELECTRIC
106	EX. WATER VALVE
107	EX. SANITARY MANHOLE
108	EX. STORM DRAIN MANHOLE
109	EX. LIGHT POLE
110	EX. TREE / BUSH
111	EX. INLET
112	APPROXIMATE LIMITS OF EXISTING BUILDING, BUILDING SLAB & FOUNDATION TO BE REMOVED
113	APPROXIMATE LIMITS OF EXISTING UTILITIES TO BE ABANDONED/REMOVED AS REQUIRED
114	SOIL BORING LOCATION

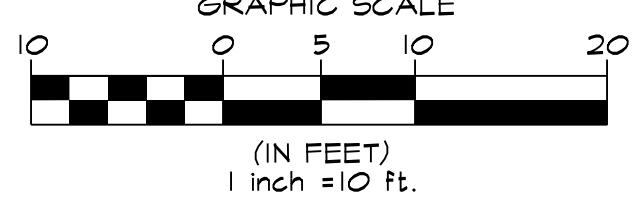
DEMOLITION KEY

- ① EX. BUILDING, BUILDING SLAB & FOUNDATION TO BE REMOVED
- ② EX. UNDERGROUND ELECTRIC TO BE ABANDONED/REMOVED AS REQUIRED. SEE MEP PLANS FOR ADDITIONAL COORDINATION.
- ③ EX. OVERHEAD ELECTRIC TO BE REMOVED. SEE MEP PLANS FOR ADDITIONAL COORDINATION.
- ④ EX. SANITARY SEWER LINE AND CLEANOUT TO BE REMOVED AS REQUIRED. SEE SHEET C-5.00 FOR SANITARY REPLACEMENT.
- ⑤ EX. WATER LINE AND ASSOCIATED STRUCTURES TO BE ABANDONED/REMOVED AS REQUIRED.
- ⑥ EX. GAS LINE TO BE ABANDONED/REMOVED AS REQUIRED. SEE MEP PLANS FOR ADDITIONAL COORDINATION.
- ⑦ EX. POSTS & FOUNDATIONS TO BE REMOVED.
- ⑧ EX. STORM DRAIN LINE TO BE ABANDONED/REMOVED AS REQUIRED.
- ⑨ EX. INLET TO BE REMOVED AND REPLACED AS REQUIRED. SEE UTILITY PROFILE SHEET C5.01.

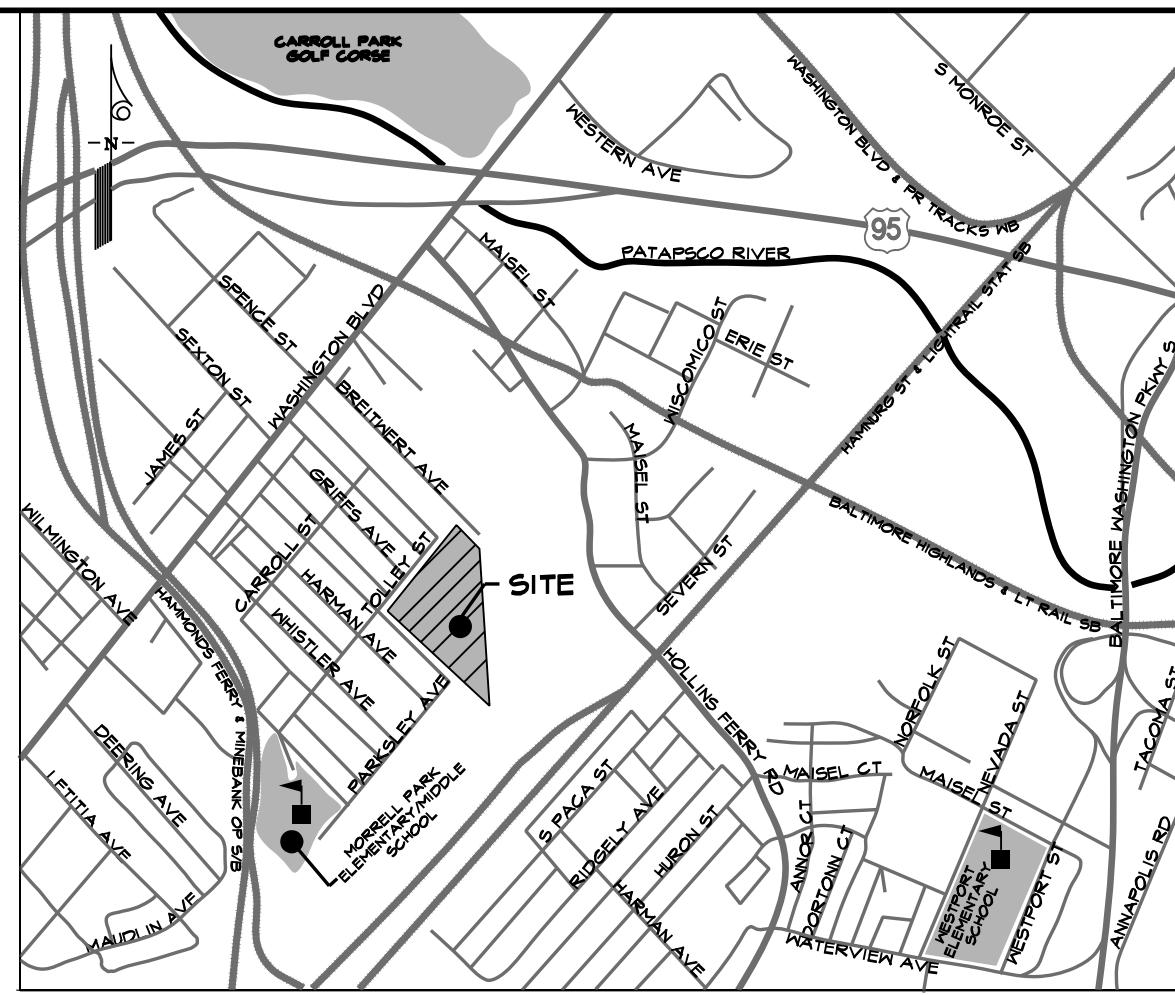
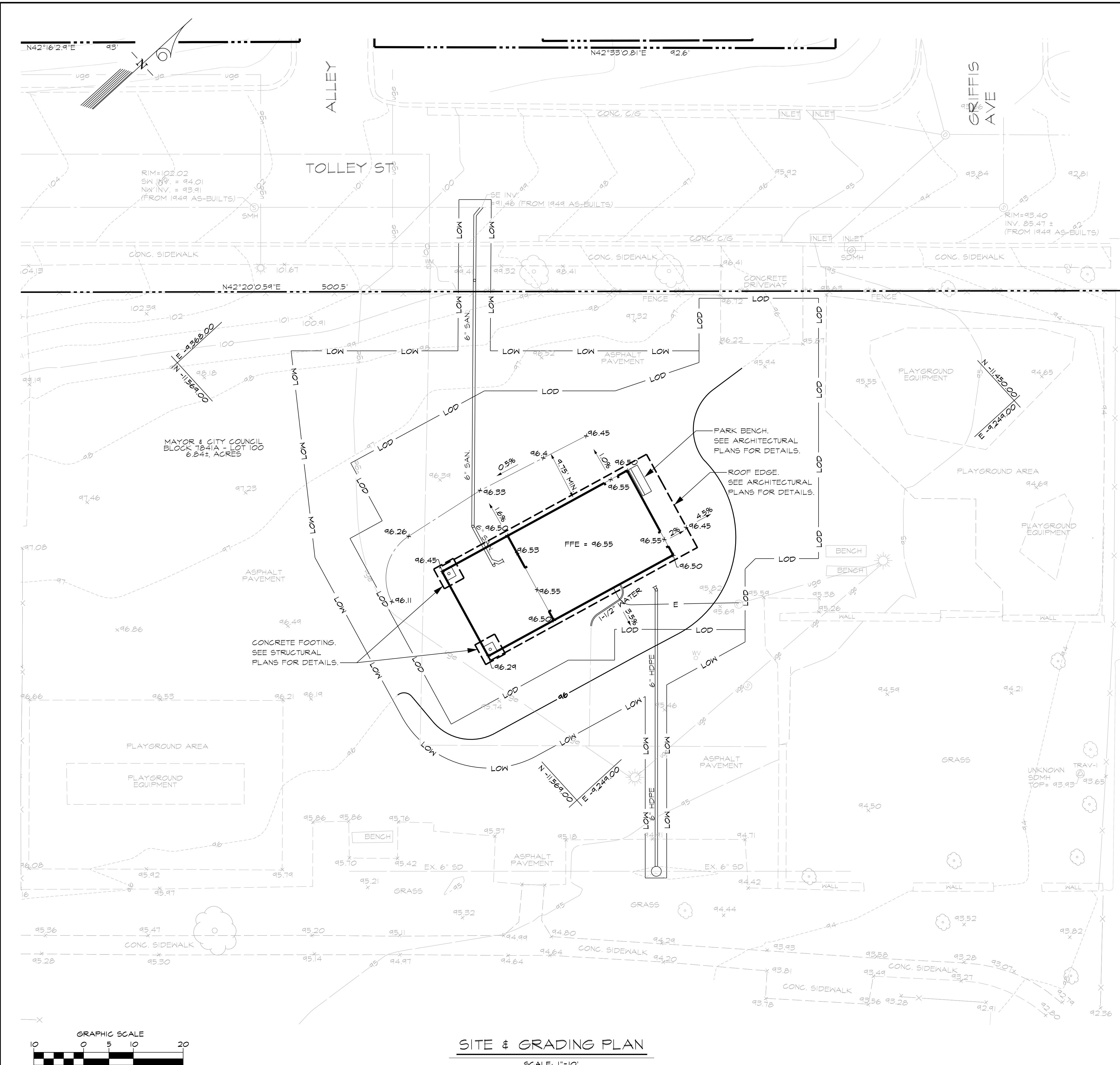
NOTE:
1. FOR GENERAL NOTES SEE DRAWING C1.00.

EXISTING CONDITION & DEMOLITION PLAN

SCALE: 1"=10'



(IN FEET)
1 inch = 10 ft.



BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230

SITE DATA

SCALE: 1"=1000'

DETROIT, MI 48226
MAYOR & CITY COUNCIL
2415 TOLLEY ST

CE: WARD 25
SECTION 03
BLOCK 7841A
LOT 100

DISTRICT: 10TH DISTRICT
D USE: RECREATION OUTDOOR / RECREATION
OS

FRONT
20 FEET SIDE
25 FEET

VEHICLE PARKING:

PLAYING FIELD)

D: NONE.
GROUP: C

ATION: THE SITE IS NOT LOCATED WITHIN THE 100-YEAR FLOODPLAIN AND DELINEATED AS A FEMA FLOOD INSURANCE RATE ZONE X. THE SITE IS LOCATED OUTSIDE THE 0.2% ANNUAL FLOODPLAIN. A REVIEW OF THE DEPARTMENT OF NATURAL RESOURCES MAPPING INDICATED THAT NO CULTIVATED WETLANDS OR STREAMS EXIST.

LEGEND

			Mark	Date	Description
CONTOUR	<u>96</u>	PROP. CONTOUR			BID SET
ER	<u>96.55</u> X	PROP. SPOT ELEVATION			
E	<u>LOD</u>	LIMIT OF DISTURBANCE (4,911 S.F. OR 0.11 AC.)			
2	<u>LOW</u>	LIMIT OF WORK (2,560 S.F. OR 0.059 AC.)			
	<u>6" SAN.</u>	PROP. SANITARY SEWER			
L	<u>1-1/2" WATER</u>	PROP. WATER SERVICE			
E		PROP. MANHOLE			
C	<u>E</u>	PROP. ELECTRIC SERVICE SEE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION	1	08/08/2025	
ANHOLE	<u>6" HDPE</u>	PROP. SWALE CENTERLINE			
		PROP. STORM DRAIN			
		PROP. INLET			

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE STATE OF MARYLAND, LICENSE NO. 25058, EXPIRATION DATE, 11-17-2026.

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE STATE OF MARYLAND, LICENSE NO. 38369, EXPIRATION DATE, 01-06-2026.

**AWN BY: VJ
ECKED BY: AP
TE & GRADING
PLAN**

CHARTER

SHEET
C-3 00

0.00

NOTE
1. FOR GENERAL NOTES SEE DRAWING C1.00.
BCNR-10111 EPLANS #2022-54 ESD #8124

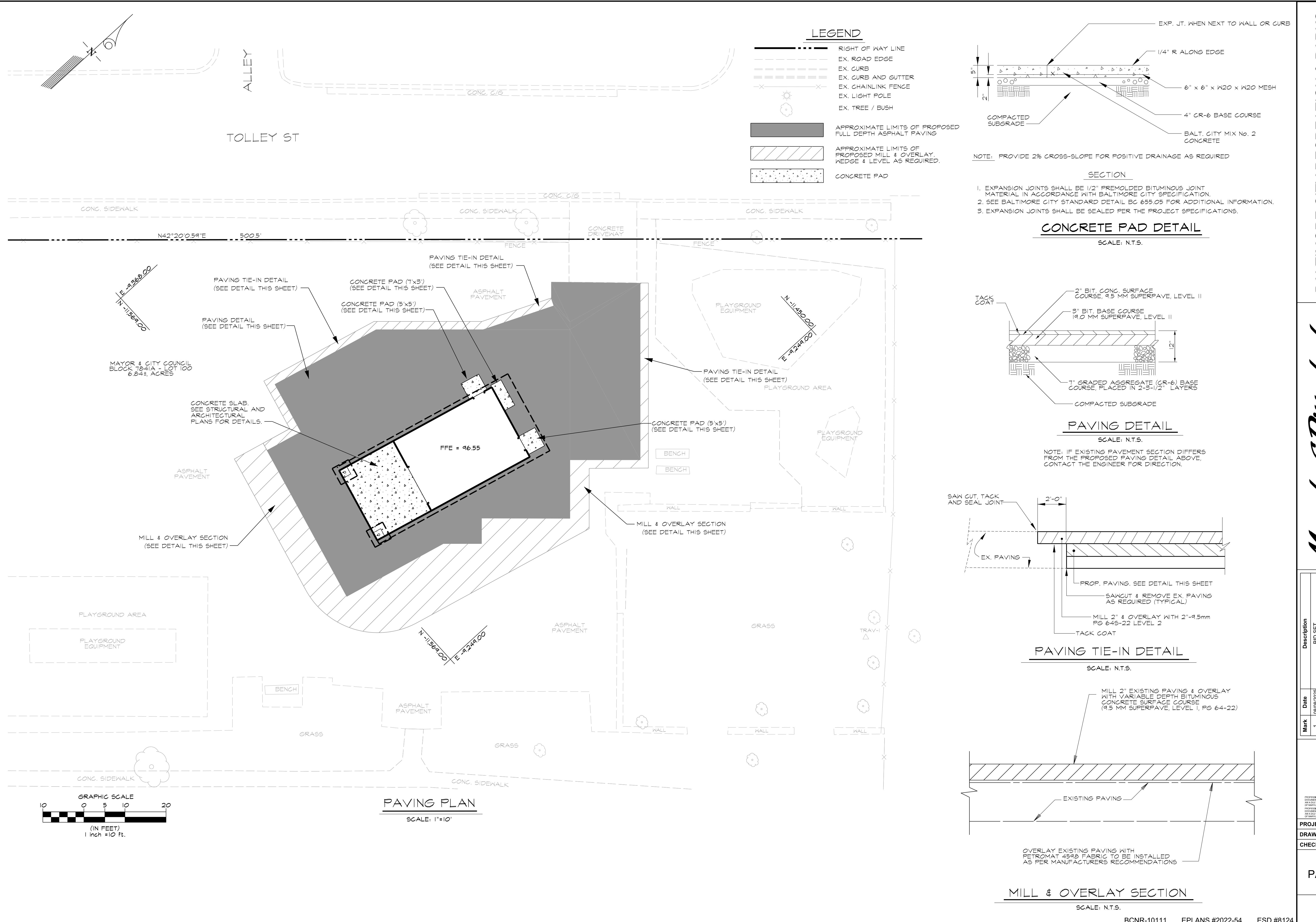
NOTE
1. FOR GENERAL NOTES SEE DRAWING C1.00.
BCNR-10111 EPLANS #2022-54 ESD #8124

BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230

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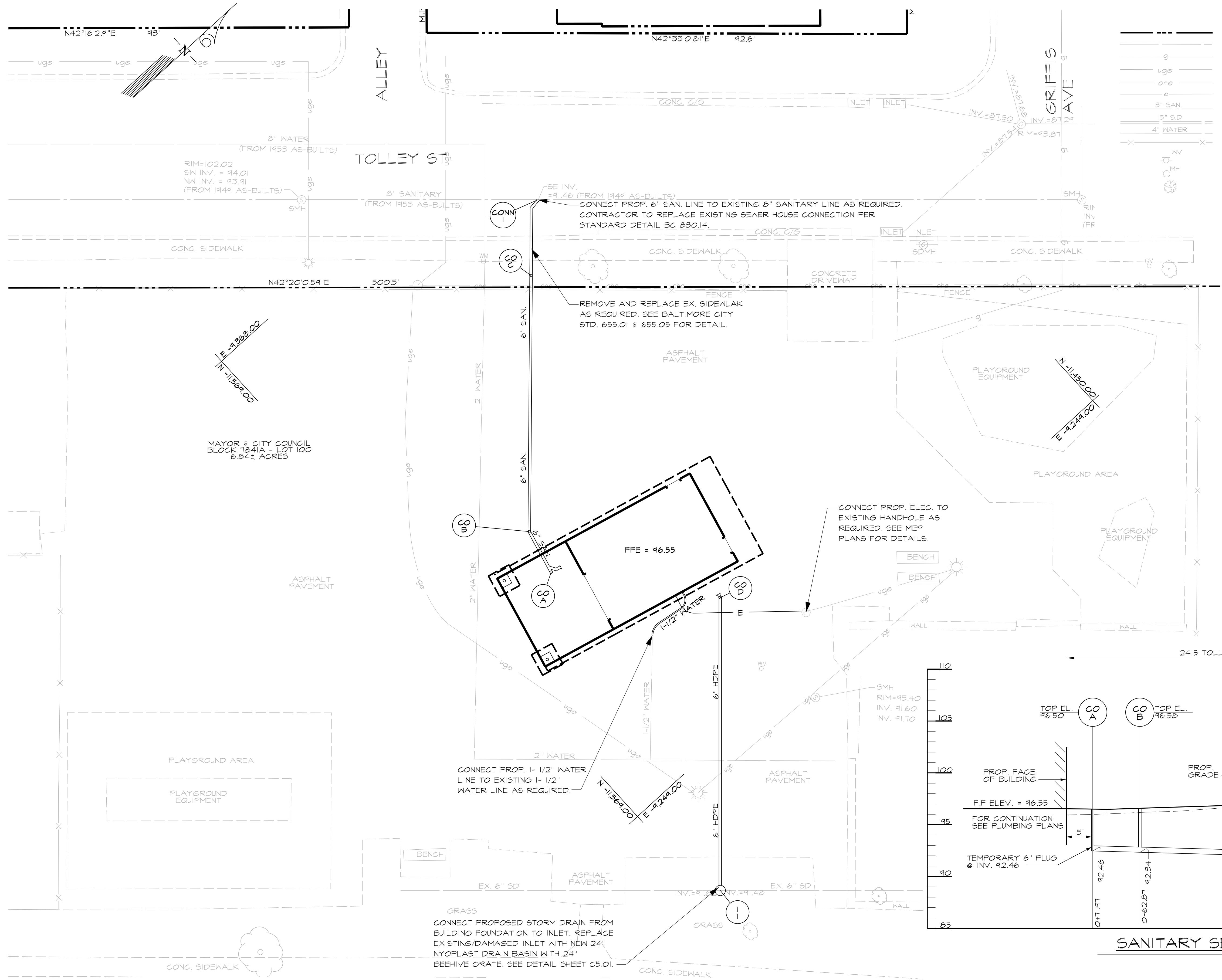


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ARCHITECTS

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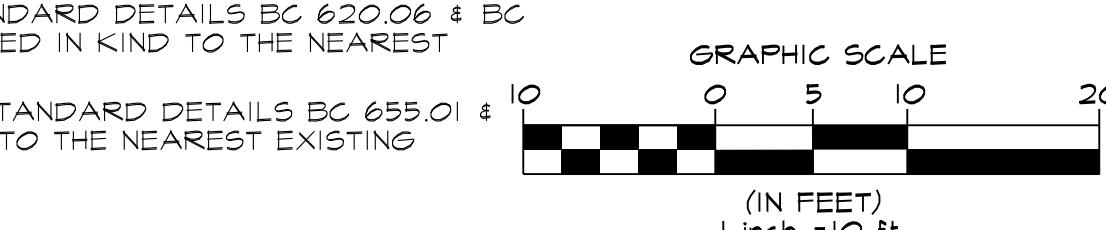


SANITARY SEWER STRUCTURE SCHEDULE				
NO.	TYPE	NORTHING	EASTING	REMARKS
CO-A	STANDARD CLEANOUT	-11549.47	-9295.06	SEE DETAIL THIS SHEET
CO-B	STANDARD CLEANOUT	-11547.33	-9303.68	SEE DETAIL THIS SHEET
CO-C	STANDARD CLEANOUT	-11513.76	-9339.95	SEE DETAIL THIS SHEET
CO-D	STANDARD CLEANOUT	-11528.70	-9269.42	SEE DETAIL THIS SHEET
CONN-I	SANITARY HOUSE CONNECTION	-11502.81	-9349.81	SEE BC. STD. 830.14
I-1	24" NYOPLAST DRAIN BASIN W/ BEEHIVE GRATE	-11566.83	-9227.69	SEE DETAIL THIS SHEET

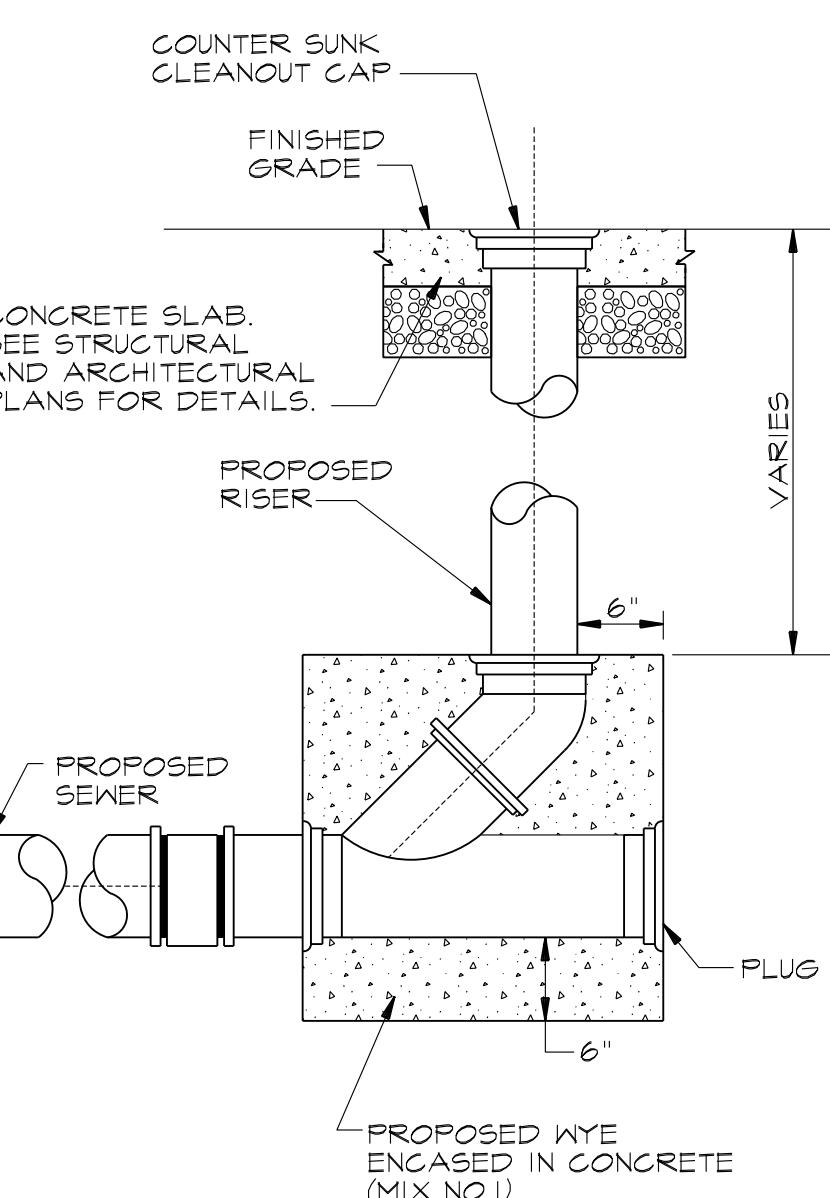
UTILITY PLAN

SCALE: 1"=10'

LEGEND	
RIGHT OF WAY LINE	6" SAN. PROP. SANITARY SEWER
EX. CURB AND GUTTER	1-1/2" WATER PROP. WATER SERVICE
EX. GAS MAIN	E PROP. ELECTRIC SERVICE SEE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION
EX. UNDERGROUND ELECTRIC	EX. OVERHEAD ELECTRIC
EX. OVERHEAD ELECTRIC	EX. ELECTRIC
EX. ELECTRIC	EX. SANITARY SEWER
EX. SANITARY SEWER	EX. STORM DRAIN
EX. STORM DRAIN	EX. WATER
EX. WATER	EX. CHAINLINK FENCE
EX. CHAINLINK FENCE	EX. WATER VALVE
EX. WATER VALVE	EX. MANHOLE
EX. MANHOLE	EX. TREE / BUSH

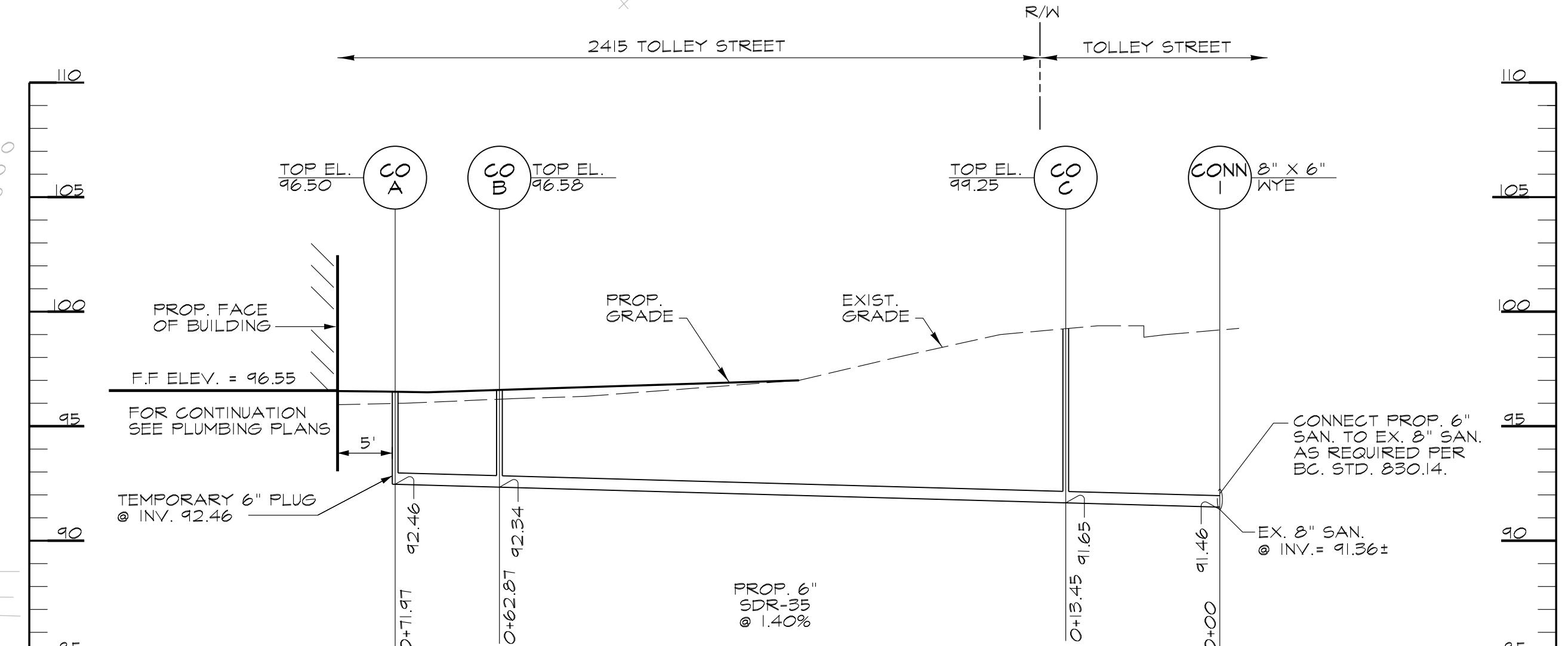


UTILITY
PLAN &
PROFILE
SHEET
C-5.00



STANDARD CLEANOUT DETAIL

SCALE: N.T.S.



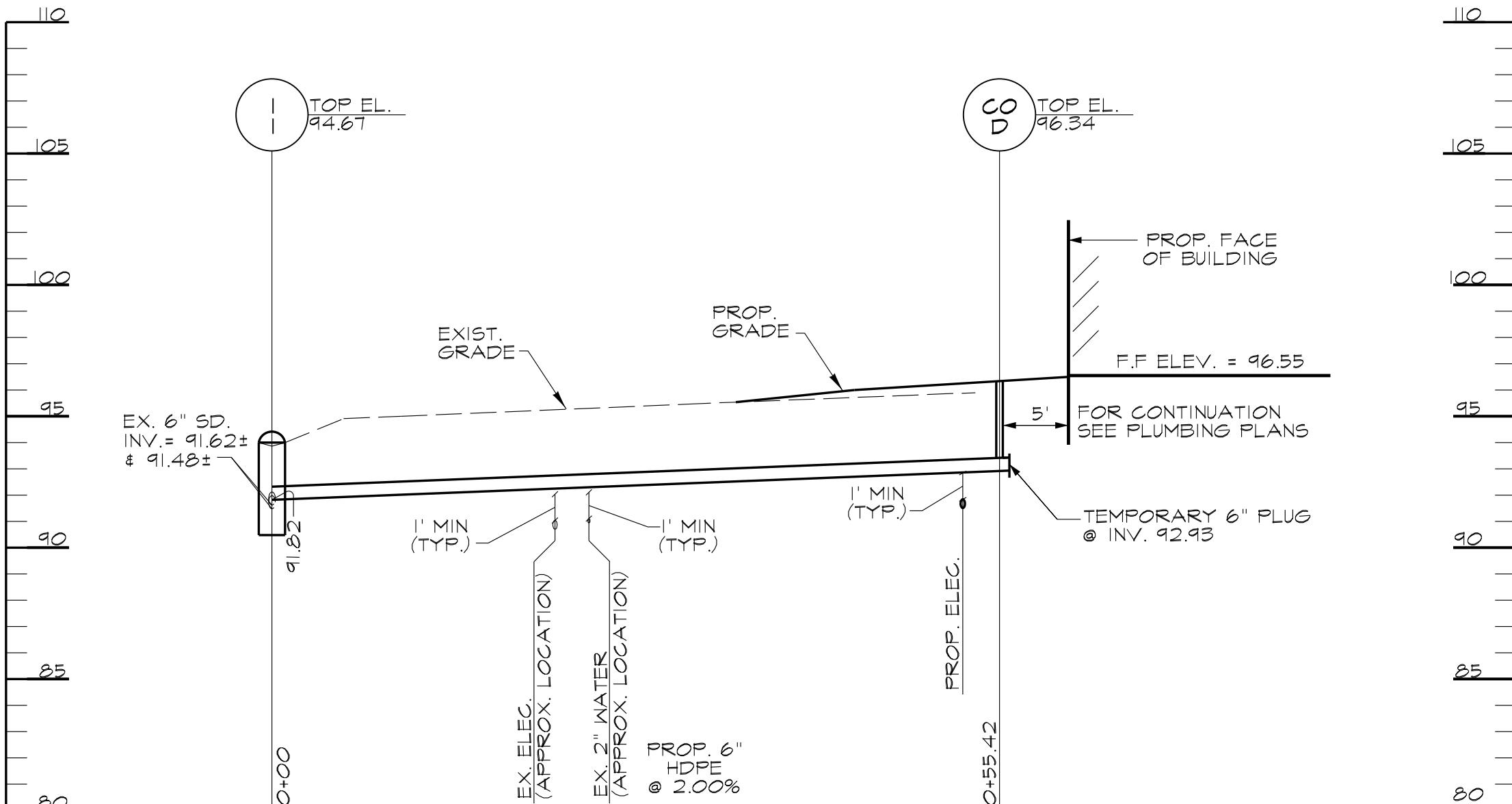
SANITARY SEWER PROFILE (BLDS TO SMH-1)

SCALE: HORIZ. 1"=10'
VERT. 1"=5'

NOTE: SANITARY INVERT BASED ON AS-BUILT INFORMATION. CONTRACTOR TO TEST PIT EX. 6" SANITARY PIPE TO VERIFY VERT. & HORIZ. LOCATION PRIOR TO BEGINNING WORK.

NOTES:

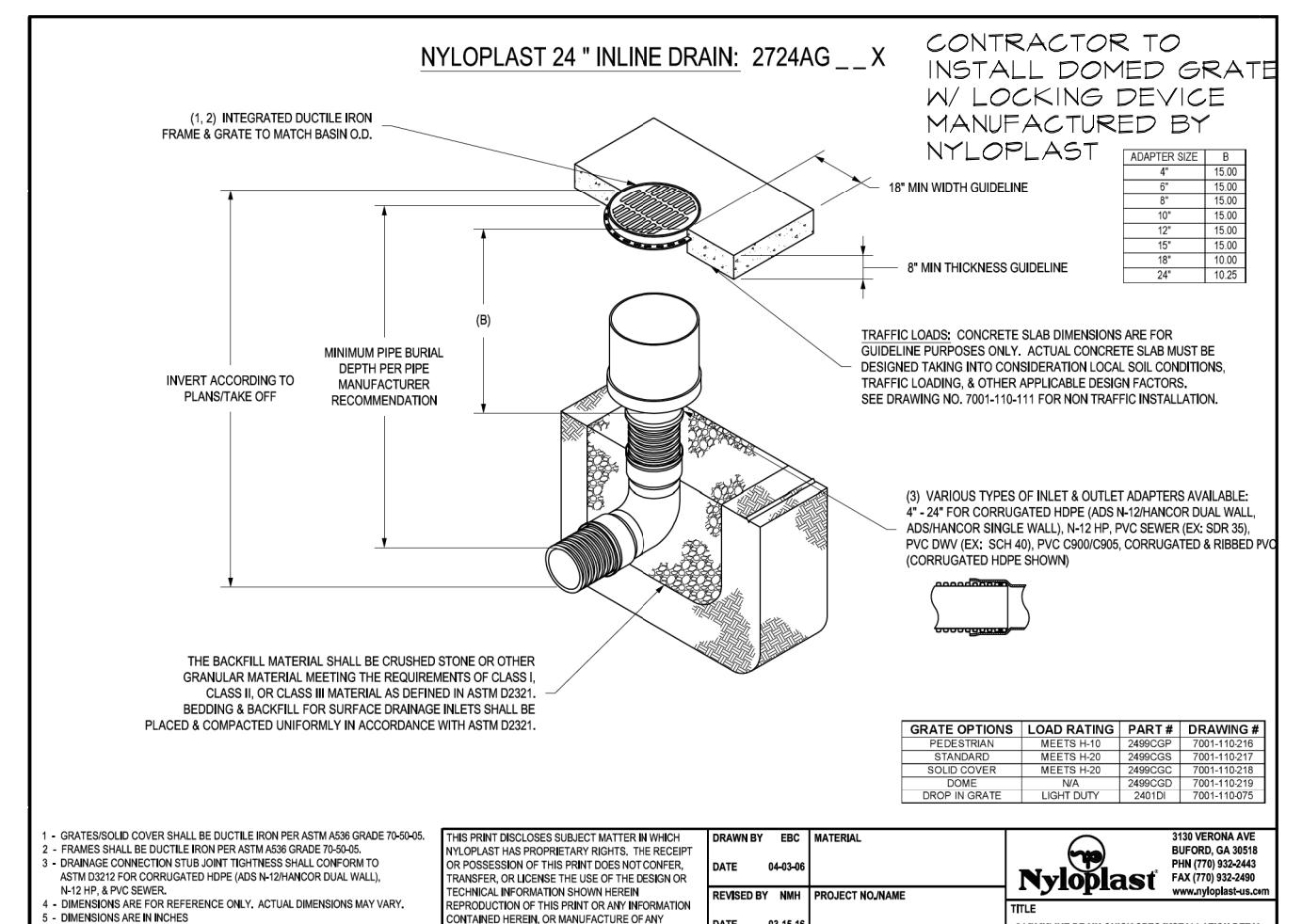
1. FOR GENERAL UTILITY NOTES SEE SHEET C101 "GENERAL NOTES".
2. SEE MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR UTILITY CONNECTIONS TO BUILDING.
3. CONTRACTOR TO REPLACE EXISTING SEWER HOUSE CONNECTION PER STANDARD DETAIL BC 830.14. BEFORE COMMENCING ANY WORK, CONTRACTOR MUST OBTAIN A UTILITY PERMIT FROM DPA AND A TEMPORARY USE OF A RIGHT WAY PERMIT FROM BALTIMORE CITY DOT.
4. FOR CURB AND GUTTER REPAIRS REFER TO CITY STANDARD DETAILS BC 620.06 & BC 620.11. EXISTING CURB AND GUTTER SHALL BE REPLACED IN KIND TO THE NEAREST EXISTING JOINT.
5. FOR CONCRETE SIDEWALK REPAIRS REFER TO CITY STANDARD DETAILS BC 655.05 & BC 655.08. EXISTING SIDEWALK SHALL BE REPLACED TO THE NEAREST EXISTING JOINT.



STORM DRAIN PROFILE (I-I TO BLDG)

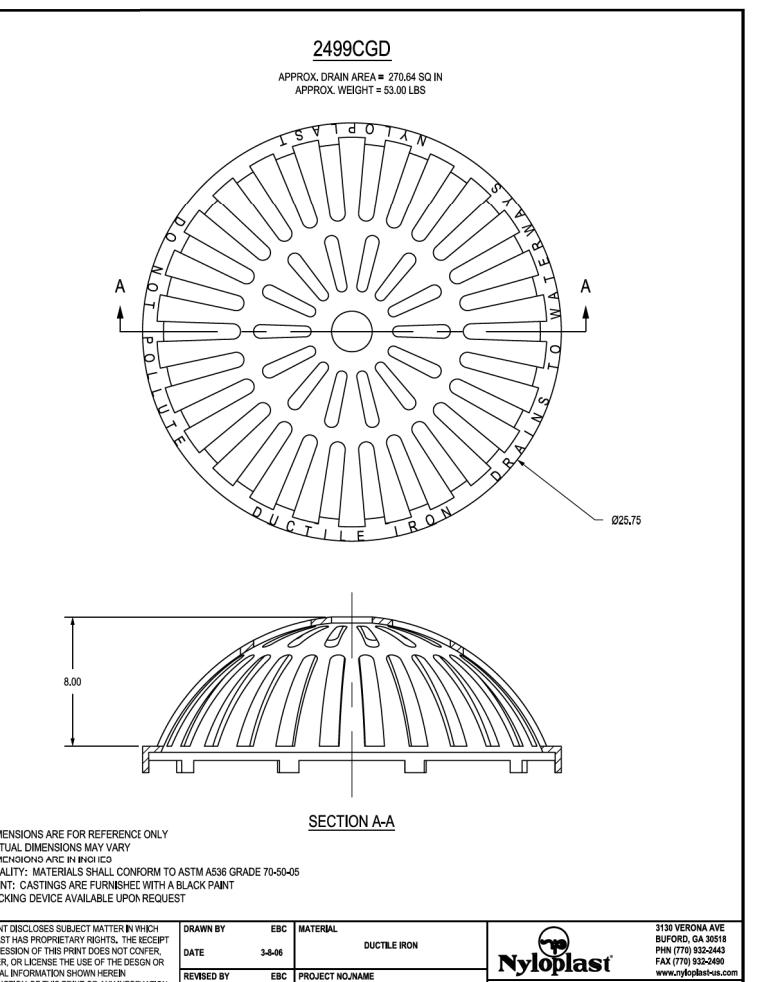
SCALE: HORIZ. 1" =
VERT 1" =

NOTE: CONTRACTOR TO TEST PIT ALL EXISTING
UTILITY CROSSINGS TO VERIFY VERT. & HORIZ.
LOCATION PRIOR TO BEGINNING WORK.



NYOPLAST 24" INLINE DRAIN BASIN W/ BEEHIVE GRATE

SCALE: N.T.S.



24" NYLOPLAST BEEHIVE GRATE

SCALE: N.T.S.

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BALTIMORE CITY RECREATION & PARKS MORRELL PARK ELEMENTARY SCHOOL

2415 TOLLEY ST., BALTIMORE, MD 21230

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226 West Market Street, York, Pennsylvania 17401
717-848-8627 voice 717-843-2449 fax

<p>PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE STATE OF MARYLAND, LICENSE NO. 25058, EXPIRATION DATE: 11-17-2026</p> <p>PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED AND APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE STATE OF MARYLAND, LICENSE NO. 38369, EXPIRATION DATE: 01-05-2026</p>	
<p>PROJECT NO: 2012</p>	
<p>AWN BY: VJ</p>	

PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE STATE OF MARYLAND, LICENSE NO. 25058, EXPIRATION DATE: 11-17-2026

PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED AND APPROVED BY ME, AND THAT I A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE STATE OF MARYLAND, LICENSE NO. 38359, EXPIRATION DATE: 01-06-2026

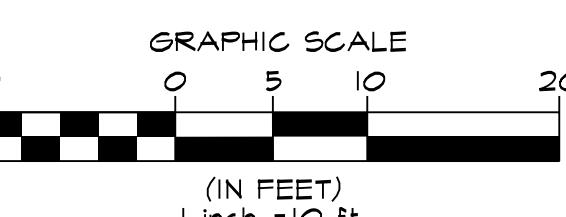
PROJECT NO: 2012
AWN BY: VJ

ECHECKED BY: AP
UTILITY

PROFILES

SHEET
C-5 01

0.01



inch = 10 ft.

PLAT #'S.: HH-21, 21-A1, 19-A1 BCNR-10111 EPLANS #2022-54 ESD #8124

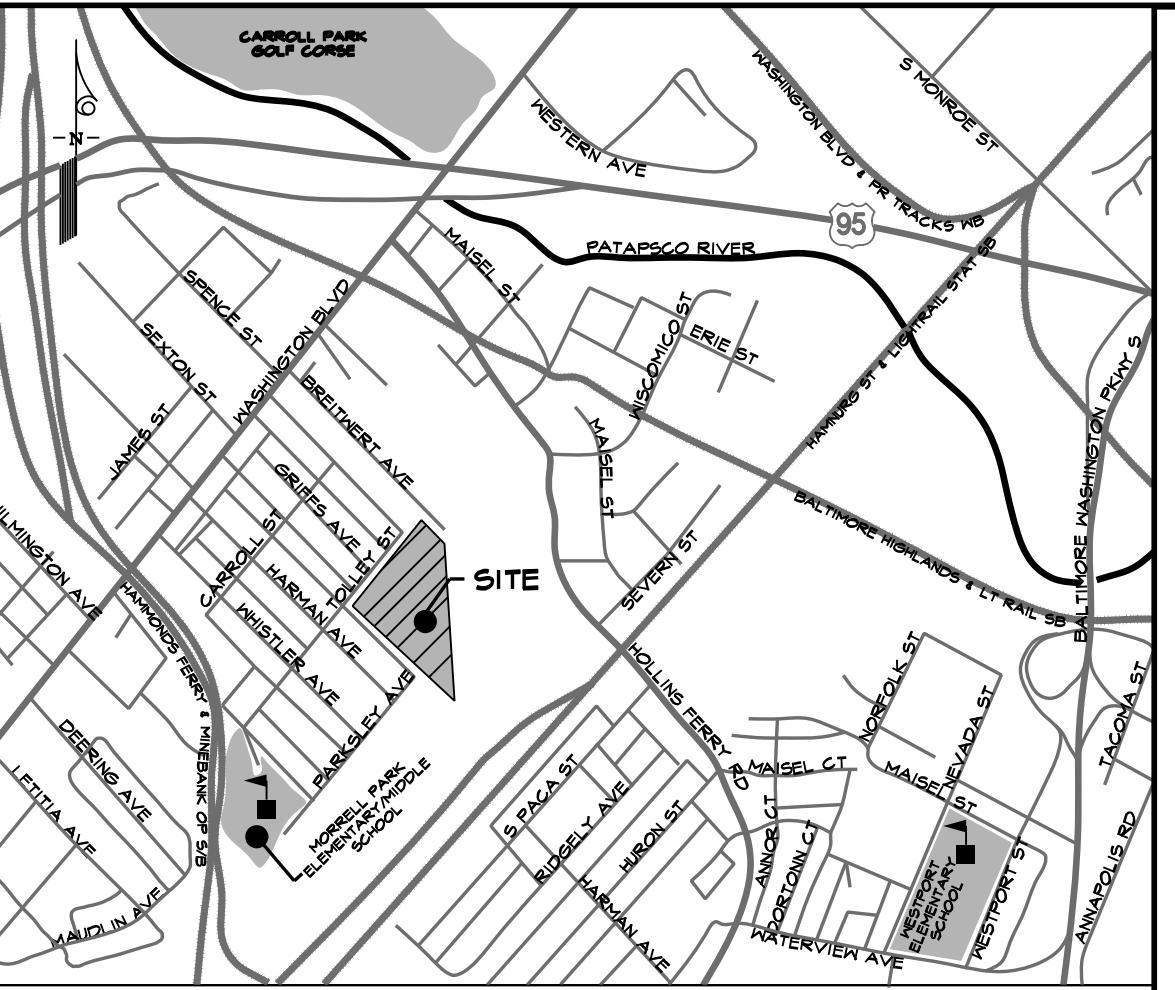
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**BALTIMORE CITY RECREATION & PARKS
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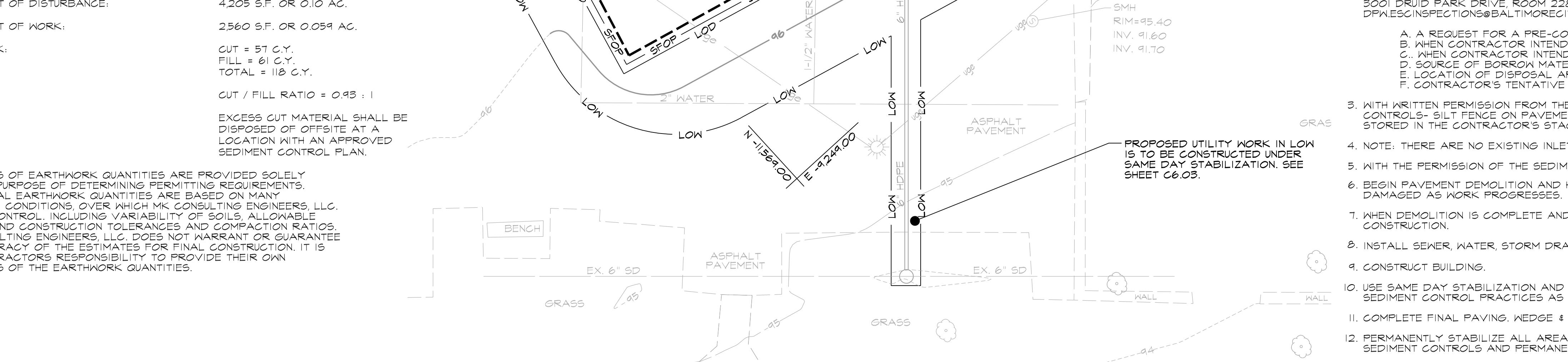
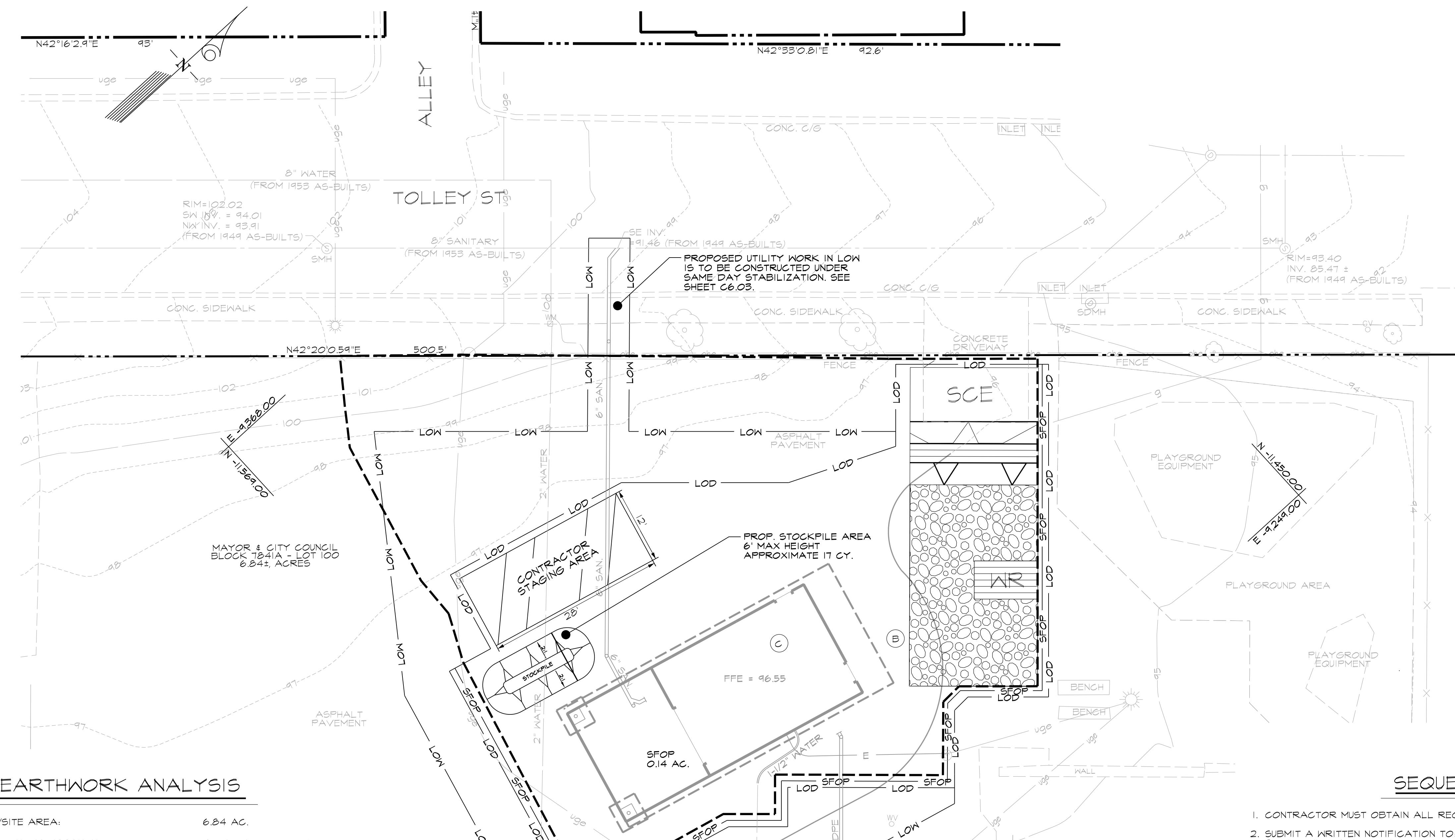


VICINITY MAP

SCALE: 1"=100'

LEGEND

—	RIGHT OF WAY LINE
— 100	EX. INDEX CONTOUR
— 99	EX. INTERMEDIATE CONTOUR
—	EX. CURB AND GUTTER
— 98	PROP. CONTOUR
— LOD	LIMIT OF DISTURBANCE
— LOW	LIMIT OF WORK
— SFOP	SILT FENCE ON PAVEMENT
— SCE	STABILIZED CONSTRUCTION ENTRANCE
— WR	WASH RACK
—	CONTRACTOR'S STAGING AREA
—	CONTRACTOR'S STOCKPILE AREA
— - - - -	DRAINAGE AREA BOUNDARY



SEQUENCE OF CONSTRUCTION

1. CONTRACTOR MUST OBTAIN ALL REQUIRED PERMITS PRIOR TO BEGINNING ANY CONSTRUCTION.
2. SUBMIT A WRITTEN NOTIFICATION TO: THE DEPARTMENT OF PUBLIC WORKS, OFFICE OF COMPLIANCE AND RESEARCH: 3001 DRUID PARK DRIVE, ROOM 228, BALTIMORE, MD 21215, PHONE NUMBER, 410-346-0732, DPWESINSPECTIONS@BALTIMORECITY.GOV, AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION STATING:
 - A. REQUEST FOR A PRE-CONSTRUCTION MEETING
 - B. WHEN CONTRACTOR INTENDS TO BEGIN CONSTRUCTION
 - C. WHEN CONTRACTOR INTENDS TO INSTALL STORMWATER MANAGEMENT FACILITIES
 - D. SOURCE OF BORROW MATERIAL
 - E. LOCATION OF DISPOSAL AREA OF SITE MATERIAL
 - F. CONTRACTOR'S TENTATIVE CLOSING DATE
3. WITH WRITTEN PERMISSION FROM THE ESC INSPECTOR, CLEAR AND GRUB FOR INSTALLATION OF PERIMETER SEDIMENT CONTROLS- SILT FENCE ON PAVEMENT AND STABILIZED CONSTRUCTION ENTRANCE. NO EROSION MATERIAL MAY BE STORED IN THE CONTRACTOR'S STAGING AREA.
4. NOTE: THERE ARE NO EXISTING INLETS WITHIN THE LIMIT OF DISTURBANCE.
5. WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB SITE AREA. BEGIN SITE GRADING.
6. BEGIN PAVEMENT DEMOLITION AND HAUL OFF. GRADE DEMO AREA AS NECESSARY AND REPAIR ANY SEDIMENT CONTROLS DAMAGED AS WORK PROGRESSES.
7. WHEN DEMOLITION IS COMPLETE AND WITH THE WRITTEN PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, BEGIN CONSTRUCTION.
8. INSTALL SEWER, WATER, STORM DRAIN, GAS AND ELECTRICAL UTILITY WORK.
9. CONSTRUCT BUILDING.
10. USE SAME DAY STABILIZATION AND WITH PERMISSION OF SEDIMENT CONTROL INSPECTOR TO REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES AS INTERFERENCES OCCUR.
11. COMPLETE FINAL PAVING, WEDGE & LEVEL TO EXISTING GRADE.
12. PERMANENTLY STABILIZE ALL AREAS, AND WITH WRITTEN PERMISSION OF THE SEDIMENT CONTROL REMOVE ALL REMAINING SEDIMENT CONTROLS AND PERMANENTLY STABILIZE ANY AREAS DISTURBED BY THERE REMOVAL.

STABILIZATION SCHEDULE

AREA	SQ. FT.	STABILIZATION TYPE	SEQUENCE #
(A) PERVIOUS AREAS	0	SEEDING (TEMPORARY)	N/A
		SEEDING (PERMANENT)	N/A
(B) IMPERVIOUS AREAS	3,689	SEEDING/STONE BASE (TEMPORARY)	5
		CONCRETE/PAVEMENT (PERMANENT)	10
(C) BUILDING	516	PROPOSED BUILDING	9

* AREAS TO BE VEGETATIVELY STABILIZED TO SATISFY THE 3 / 7 DAY REQUIREMENTS AS PER THE BALTIMORE CITY STANDARD EROSION AND SEDIMENT CONTROL NOTES.

BCNR-10111 EPLANS #2022-54 ESD #8124

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY APPROVED BY ME, AND THAT THE INFORMATION CONTAINED THEREIN IS TRUE AND CORRECT.
I HAVE READ AND UNDERSTOOD THE REQUIREMENTS OF THE STATE OF MARYLAND LICENSE NO. 3588, EXPIRATION DATE 11-02-2025.
I HAVE READ AND UNDERSTOOD THE REQUIREMENTS OF THE STATE OF MARYLAND LICENSE NO. 3588, EXPIRATION DATE 11-02-2025.
I HAVE READ AND UNDERSTOOD THE REQUIREMENTS OF THE STATE OF MARYLAND LICENSE NO. 3588, EXPIRATION DATE 11-02-2025.

PROJECT NO: 20120

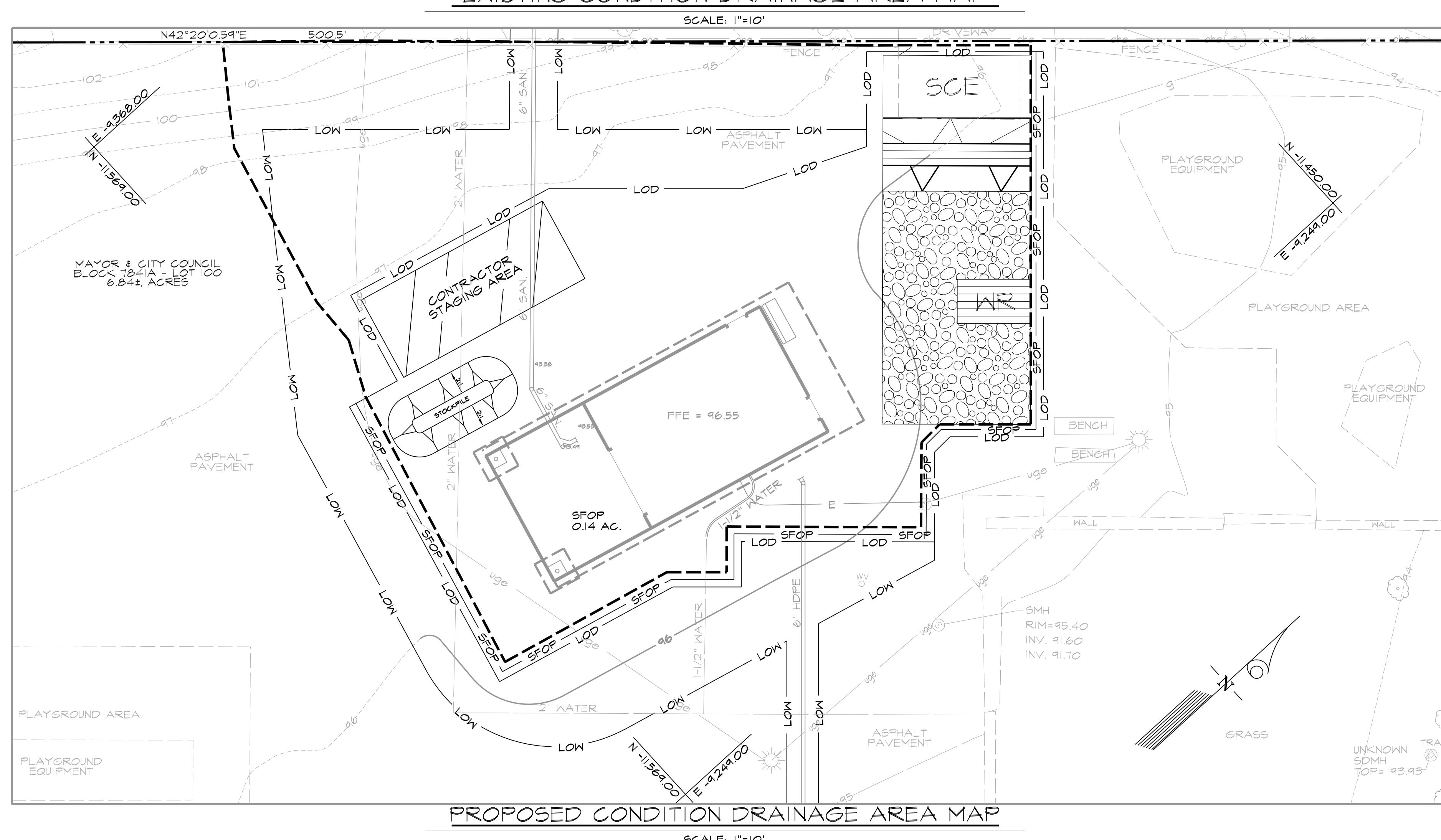
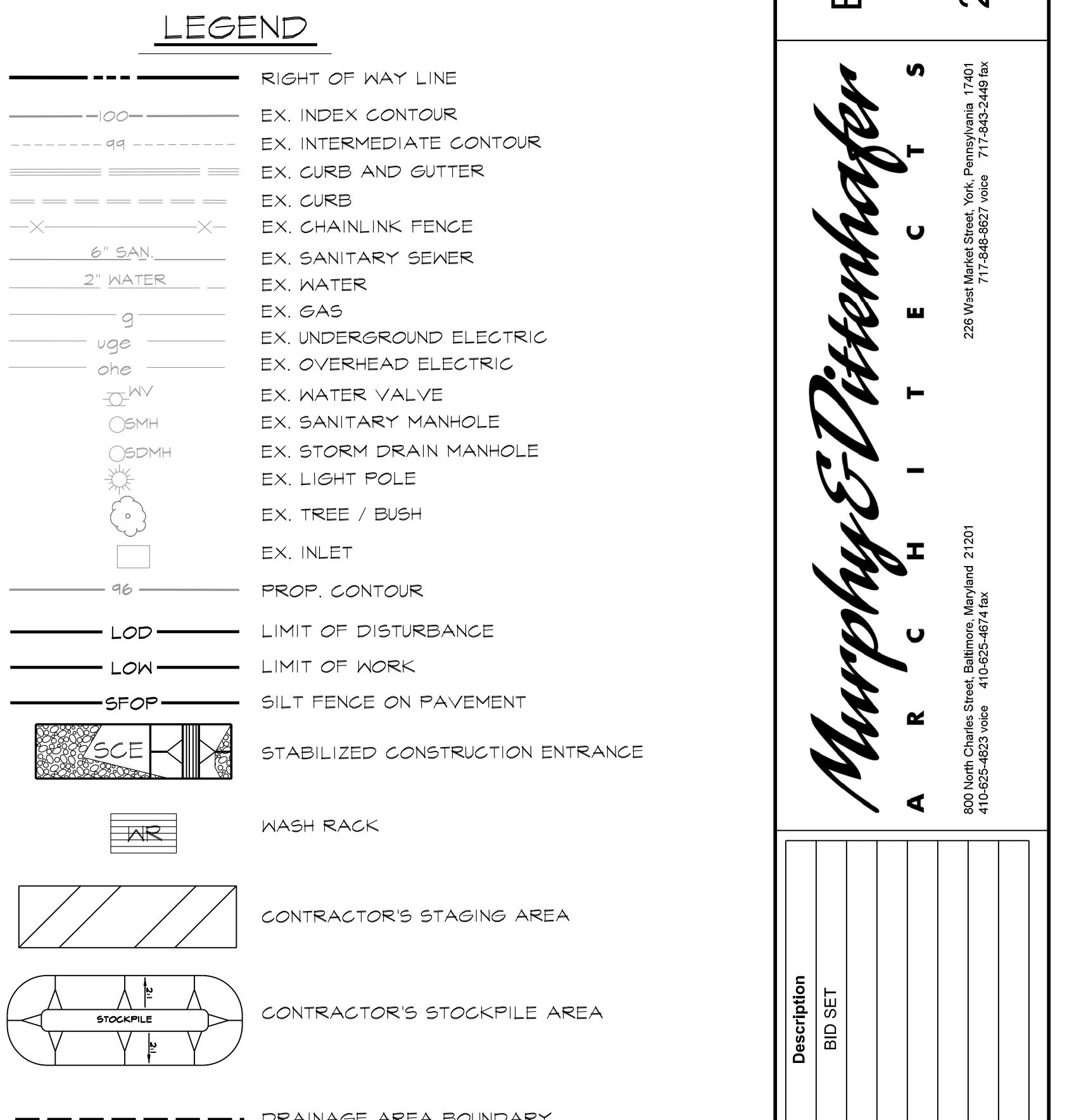
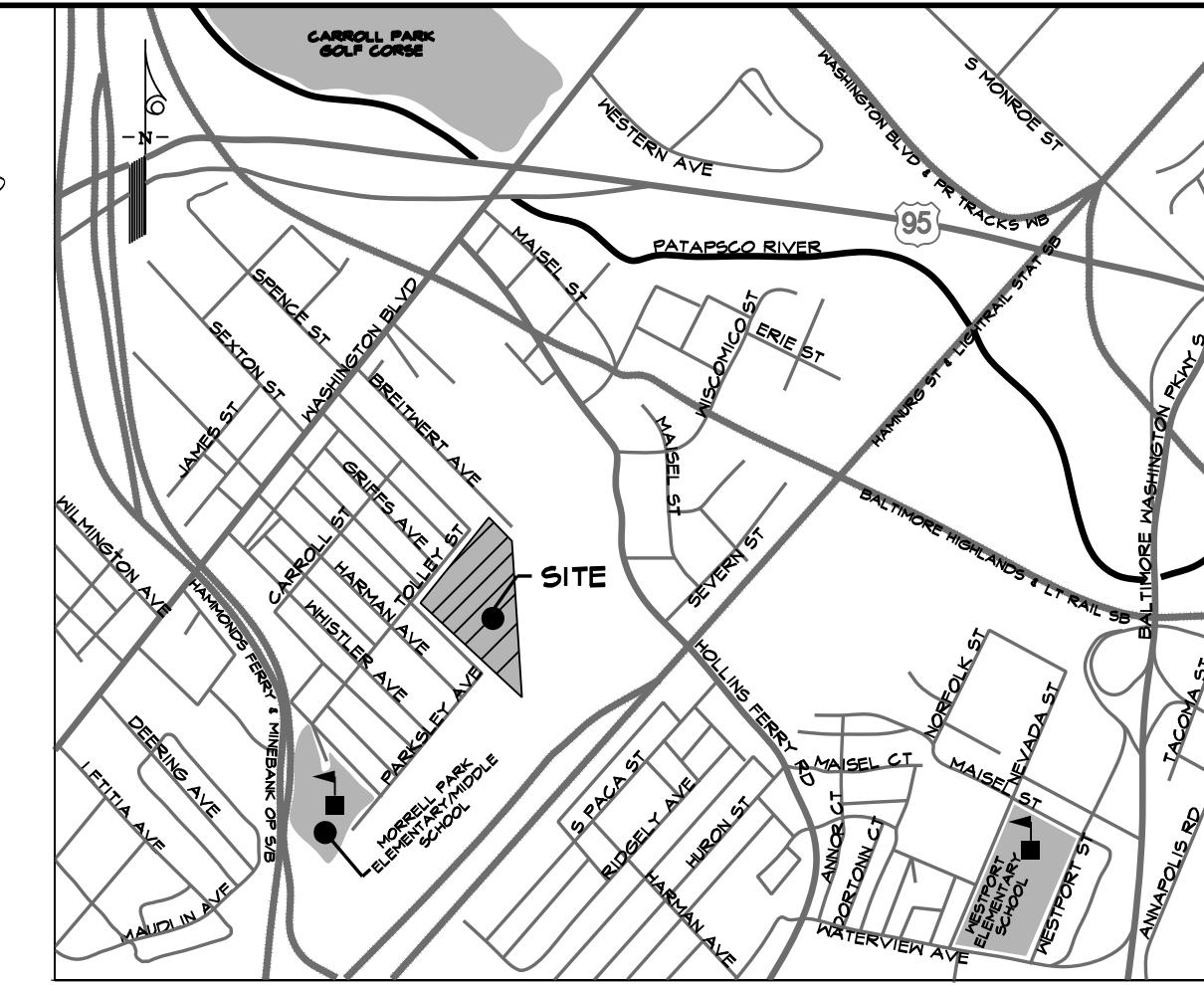
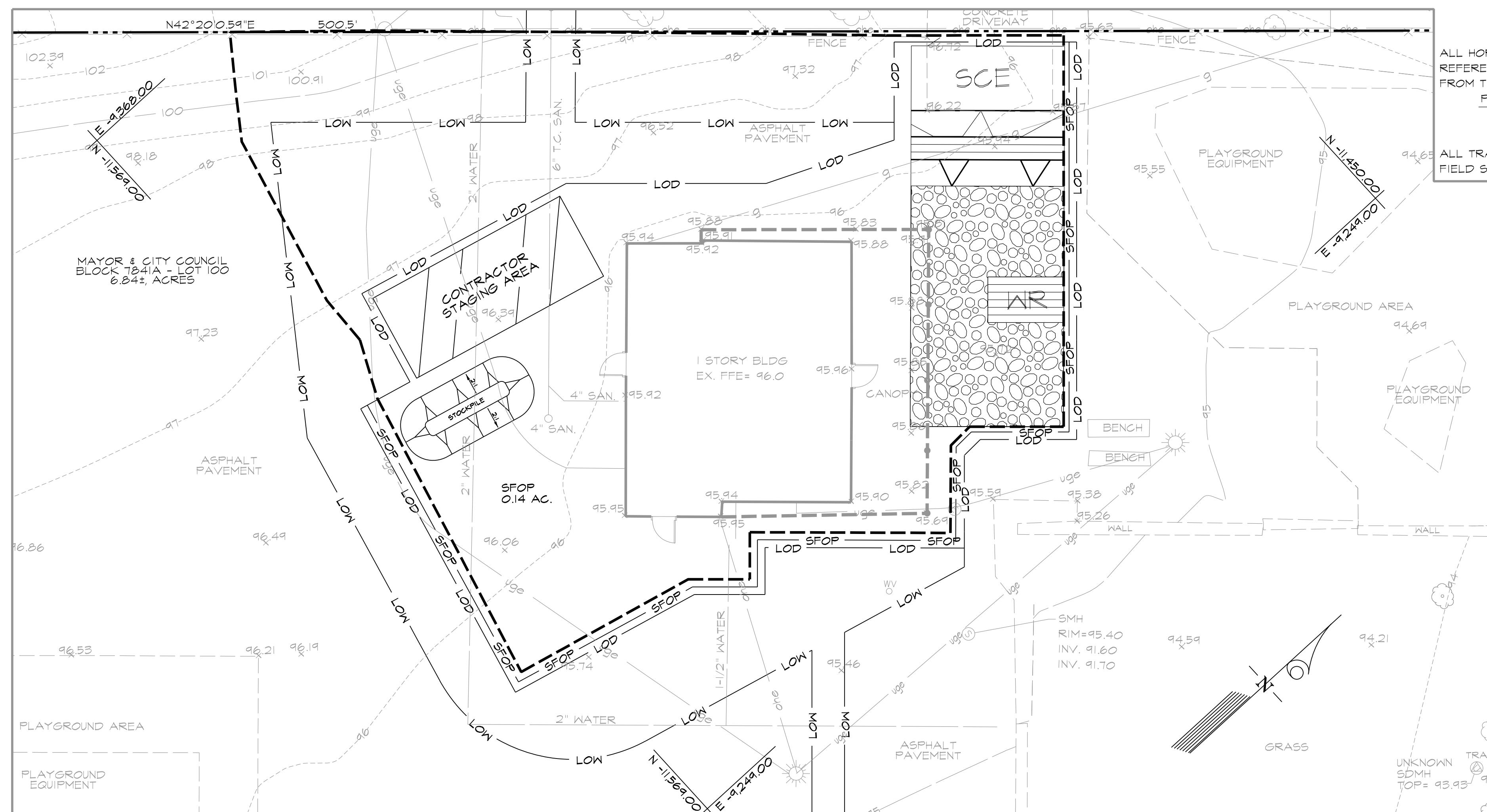
DRAWN BY: VJ

CHECKED BY: AP

EROSION &
SEDIMENT
CONTROL PLAN

SHEET

C-6.00



BALTIMORE CITY RECREATION & PARKS
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228 West Market Street, York, Pennsylvania 17401
717-848-4627 voice

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED ON APPROVAL OF ME, AND THAT I AM THE OWNER OF THE TRADE NAME AND TRADE SECRET OF THE FIRM OF MARYLAND LICENSE NO. 2050. EXPIRATION DATE: 11/2020
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED AND APPROVED BY ME, AND THAT I AM THE OWNER OF THE TRADE NAME AND TRADE SECRET OF THE FIRM OF MARYLAND LICENSE NO. 3538. EXPIRATION DATE: 11/2020

PROJECT NO: 20120

DRAWN BY: VJ

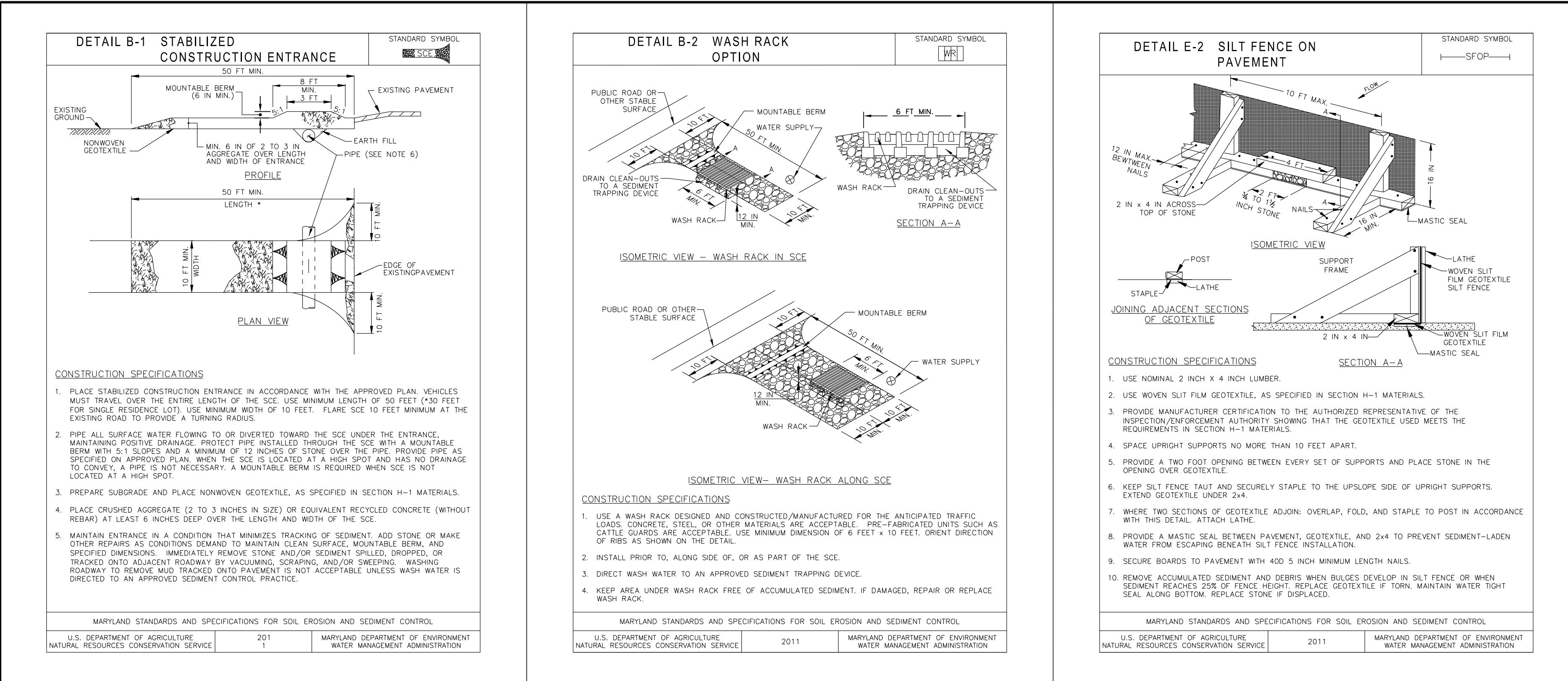
CHECKED BY: AP

EROSION &
SEDIMENT
CONTROL DETAILS

SHEET

C-6.02

BCNR-10111 EPLANS #2022-54 ESD #8124



B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

DEFINITION

A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES. PURPOSE TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS.

CONDITIONS

WHERE PRACTICE APPLIES STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

CRITERIA

1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
2. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.
3. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.
4. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE.
5. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SNAKE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVE MANNER.
6. WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGES.
7. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION.
8. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

Maintenance

THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH THE SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO. THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.

H-5 STANDARDS & SPECIFICATIONS FOR DUST CONTROL

DEFINITION

CONTROLLING THE SUSPENSION OF DUST PARTICLES FROM CONSTRUCTION ACTIVITIES.

PURPOSE

TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES TO REDUCE ON AND OFF-SITE DAMAGE.

CONDITIONS WHERE PRACTICE APPLIED

AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS

1. MULCHES; SEE SECTION B-4-2 SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS, SECTION B-4-3 SEEDING AND MULCHING, AND SECTION B-4-4 TEMPORARY STABILIZATION. MULCH MUST BE ANCHORED TO PREVENT BLOWING.
2. VEGETATIVE COVER; SEE SECTION B-4-4 TEMPORARY STABILIZATION.
3. TILLAGE; TILL TO ROUGHEN SURFACE AND BRING CLODS TO SURFACE, BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12" APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT THAT MAY PRODUCE THE DESIRED EFFECT.
4. IRRIGATION; SPRINKLE SITE WITH WATER UNTIL SURFACE IS MOIST. REPEAT AS NEEDED. THE SITE MUST NOT BE IRRIGATED TO THE POINT THAT RUNOFF OCCURS.
5. BARRIERS; SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
6. CHEMICAL TREATMENT; USE OF CHEMICAL TREATMENT REQUIRES APPROVAL BY THE APPROPRIATE PLAN REVIEW AUTHORITY.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

- A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
- B. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

GENERAL NOTES

1. CONTRACTOR SHALL PLACE 4" MINIMUM TOPSOIL (AFTER COMPACTION), SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS ON SHEETS C6.03.
2. THE CONTRACTOR SHALL SUBMIT SEED MIXTURE CERTIFICATION TO THE OWNER PRIOR APPLICATION.
3. FOR EROSION AND SEDIMENT CONTROL DETAILS SEE SHEET C6.02.
4. FOR EROSION AND SEDIMENT CONTROL STAB. NOTES SEE SHTS. C6.04 & C6.05.

UTILITY NOTES

1. CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY.
2. PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF THE TRENCH.
3. ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.
4. CONTRACTOR TO ENSURE PROPER SAFETY PRECAUTIONS FOR TRAFFIC ARE TAKEN WHEN IN AREAS OF AUTOMOBILE TRAVEL AREAS.
5. ANY EXCESS STOCKPILE MATERIAL MAY BE PLACED ON-SITE IN THE TEMPORARY STOCKPILE AREA.

NOTE TO CONTRACTOR:
EROSION AND SEDIMENT CONTROLS SHALL BE STRICTLY ENFORCED.

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR WILL COMPLY WITH ALL REQUIREMENTS OF SEDIMENT AND EROSION CONTROL AS SET FORTH IN THE MARYLAND SEDIMENT AND EROSION MANUAL AND BALTIMORE CITY CODE ARTICLE 7.
2. SUBMIT A WRITTEN NOTIFICATION TO: THE DEPARTMENT OF PUBLIC WORKS, OFFICE OF COMPLIANCE AND LABORATORIES, 3001 DRUID PARK DRIVE, ROOM 228, BALTIMORE, MD 21215, PHONE NUMBER, 410-396-0732, FAX 410-525-9047, DPWESINSPECTIONS@BALTIMORECITY.GOV AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION STATING:
 - A. REQUEST FOR A PRECONSTRUCTION MEETING
 - B. WHEN CONTRACTOR INTENDS TO BEGIN CONSTRUCTION
 - C. WHEN CONTRACTOR INTENDS TO INSTALL STORMWATER MANAGEMENT FACILITIES,
 - D. SOURCE OF BORROW MATERIAL
 - E. LOCATION OF DISPOSAL AREA OF SITE MATERIAL
 - F. CONTRACTOR'S TENTATIVE CLOSING DATE.
3. INITIAL DISTURBANCE WILL BE LIMITED TO THAT NECESSARY TO GAIN ENTRANCE TO THE SITE AND INSTALL NECESSARY SEDIMENT CONTROLS AS PER THE APPROVED PLANS.
4. ALL SEDIMENT CONTROLS AND CRITICAL SLOPES MUST BE STABILIZED WITHIN THREE (3) CALENDAR DAYS. ALL OTHER INACTIVE DISTURBED AREAS ON THE PROJECT SITE MUST BE STABILIZED WITHIN SEVEN (7) CALENDAR DAYS.
5. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE WHENEVER POSSIBLE AND CONFINED TO AN AREA WHERE IT WILL NOT BE OBSTRUCT THE NORMAL COURSE OF DRAINAGE.
6. PUMPING OF SEDIMENT LADEN WATER WILL NOT BE ALLOWED UNLESS IT IS FILTERED BY WAY OF AN APPROVED SEDIMENT TRAPPING DEVICE.
7. CONTINUOUS INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES IS MANDATORY.
8. ALL POINTS OF INGRESS AND EGRESS SHALL BE PROTECTED TO MINIMIZE TRACKING OF MUD ON TO PUBLIC RIGHT-OF-WAYS.
10. ANY EARTH, GRAVEL, AND/OR OTHER MATERIAL TRACKED, SPILLED OR WASHED ON TO ADJACENT ROADS MUST BE IMMEDIATELY REMOVED AND DISPOSED OF IN A PROPER MANNER. NO FLUSHING WILL BE PERMITTED. ALL MATERIAL MUST BE REMOVED BY MEANS OF SHOVELING AND SWEEPING.
11. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 5,000 SQ. FT, THE CONTRACTOR SHALL HAVE A BALTIMORE CITY EROSION AND SEDIMENT CONTROL INSPECTOR INSPECT AND APPROVE THE WORK COMPLETED AT THE STAGES OF CONSTRUCTIONS SPECIFIED BELOW:
 - A. UPON COMPLETION OF THE INSTALLATION OF THE PERIMETER SEDIMENT CONTROLS;
 - B. DURING ALL GRADING AND BUILDING OPERATIONS;
 - C. UPON FIRST STABILIZATION OF THE ENTIRE SITE PRIOR TO REMOVAL OF THE SEDIMENT CONTROLS.
12. THE CONTRACTOR SHALL NOT DEVIATE FROM THE APPROVED SEDIMENT AND EROSION CONTROL PLAN WITHOUT FIRST RECEIVED APPROVAL FROM THE OFFICE OF COMPLIANCE AND LABORATORIES. VARIATIONS TO THE ORIGINAL PLAN MUST BE SUBMITTED IN WRITING WITH ALL PROPOSED MODIFICATIONS STILL BEING HIGHLIGHTED. SUBSTANTIAL CHANGES WILL NECESSITATE AMENDMENT OF THE GRADING/BUILDING PERMIT.

B-4-7 STANDARDS AND SPECIFICATIONS FOR HEAVY USE AREA PROTECTION

DEFINITION

THE STABILIZATION OF AREAS FREQUENTLY AND INTENSIVELY USED BY SURFACING WITH SUITABLE MATERIALS (E.G., MULCH AND AGGREGATE).

PURPOSE

TO PROVIDE A STABLE, NON-ERODING SURFACE FOR AREAS FREQUENTLY USED AND TO IMPROVE WATER QUALITY FROM THE RUNOFF OF THESE AREAS.

CONDITIONS WHERE PRACTICE APPLIED

THIS PRACTICE APPLIES TO INTENSIVELY USED AREAS (E.G., EQUIPMENT AND MATERIAL STORAGE, STAGING AREAS, HEAVILY USED TRAVEL LANES).

CRITERIA

1. A MINIMUM 4-INCH BASE COURSE OF CRUSHED STONE OR OTHER SUITABLE MATERIALS INCLUDING WOOD CHIPS OVER NONNOVEN GEOTEXTILE SHOULD BE PROVIDED AS SPECIFIED IN SECTION H-1 MATERIALS.
2. SELECT THE STABILIZING MATERIAL BASED ON THE INTENDED USE, DESIRED MAINTENANCE FREQUENCY AND RUNOFF CONTROL.
3. THE TRANSPORT OF SEDIMENTS, NUTRIENTS, OILS, CHEMICALS, PARTICULATE MATTER ASSOCIATED WITH VEHICULAR TRAFFIC AND EQUIPMENT, AND MATERIAL STORAGE NEEDS TO BE CONSIDERED IN THE SELECTION OF MATERIAL. ADDITIONAL CONTROL MEASURES MAY BE NECESSARY TO CONTROL SOME OF THESE POTENTIAL POLLUTANTS.
4. SURFACE EROSION CAN BE A PROBLEM ON LARGE HEAVY USE AREAS, IN THESE SITUATIONS, MEASURES TO REDUCE THE FLOW LENGTH OF RUNOFF OR EROSION VELOCITIES NEED TO BE CONSIDERED.

MAINTENANCE

THE HEAVY USE AREAS MUST BE MAINTAINED IN A CONDITION THAT MINIMIZES EROSION. THIS MAY REQUIRE ADDING SUITABLE MATERIAL, AS SPECIFIED ON THE APPROVED PLANS, TO MAINTAIN A CLEAN SURFACE.

SUPPLEMENTAL EROSION AND SEDIMENT CONTROL NOTES

1. FOR UTILITY TRENCHES OUTSIDE THE DRAINAGE AREA LIMITS OF EROSION & SEDIMENT CONTROL (ES) CONTROLS, THE CONTRACTOR SHALL OPEN ONLY A SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED AT THE END OF EACH WORKDAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT. ANY EXCESS STOCKPILE MATERIAL SHALL BE REMOVED FROM THE SITE AT THE END OF EACH WORKDAY. FOR PERVIOUS SURFACES, THE USE OF ANY VEHICLE TRAFFIC IS PROHIBITED FOR THE FIRST 24 HOURS AFTER A RAIN EVENT.
2. ALL DISTURBED AREAS SHALL BE STABILIZED PER THE STABILIZATION SCHEDULE.
3. THE ESC INSPECTOR HAS AUTHORITY TO REQUIRE ADDITIONAL ESC CONTROLS BEYOND THOSE SHOWN ON THE APPROVED ESC PLAN. ANY ADDITIONAL CONTROLS REQUIRED BY THE INSPECTOR SHALL BE PROVIDED BY THE CONTRACTOR AT THE DIRECTION OF THE INSPECTOR WITH 24 HOURS OF VERBAL NOTIFICATIONS BY THE ESC INSPECTOR.
4. WHERE SAME DAY STABILIZATION IS SPECIFIED ON THE ESC PLAN, IT SHALL BE CONSIDERED THE PRIMARY ESC CONTROL. ANY CONTROLS PROVIDED DOWNSTREAM OF AREAS SPECIFIED FOR SAME DAY STABILIZATION SHALL BE CONSIDERED SECONDARY CONTROLS UNLESS SPECIFIED OTHERWISE. (SECONDARY CONTROLS ARE DEFINED AS CONTROLS PROVIDED AS BACKUP MEASURES TO A PRIMARY CONTROL).
5. SAME DAY STABILIZATION IS DEFINED AS THE COMPLETION OF PROPOSED WORK WITHIN A DEFINED AREA WITH THE STIPULATION OF A NON-ERODIBLE SURFACE AT THE END OF EACH WORK DAY. EXAMPLES OF ACCEPTABLE NON-ERODIBLE SURFACES INCLUDE PAVEMENT, STEEL PLATES, A 2" MINIMUM STONE LAYER, OR STABILIZATION MATTING OVER PERMANENT SEEDING. THIRTY (30) MIL PLASTIC SHEETING WITH ANCHORING MAY BE TEMPORARY SEEDING AND MULCH IS NOT CONSIDERED AN ACCEPTABLE SAME DAY STABILIZATION PRACTICE. CONSIDERED ACCEPTABLE IF EITHER SPECIFIED ON AN APPROVED PLAN OR APPROVED BY THE ESC INSPECTOR.

ENGINEER'S CERTIFICATION

I DO HEREBY CERTIFY THAT THIS PLAN FOR EROSION SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED UPON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BALTIMORE CITY OFFICE OF COMPLIANCE AND LABORATORIES.

MARIANNE K. CRAMPTON 38369
PRINT NAME LIC. NO.

Marianne K. Crampton 8/08/2025
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TELEPHONE NUMBER

OWNER'S/ DEVELOPER'S CERTIFICATION

I/WE DO HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED PLAN AND ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE CERTIFICATION OF ATTENDANCE AT AN APPROVED MARYLAND DEPARTMENT OF THE ENVIRONMENTAL SEDIMENT AND EROSION CONTROL TRAINING PROGRAM PRIOR TO THE BEGINNING OF WORK. THE CITY'S DPW AND DHCD AND I/WE WILL BE ALLOWED RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION.

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PROJECT NO: 20120
DRAWN BY: VJ
CHECKED BY: AP
EROSION & SEDIMENT CONTROL NOTES
SHEET C-6.03
BCNR-10111 EPLANS #2022-54 ESD #8124

B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

DEFINITION

USING VEGETATION AS COVER TO PROTECT EXPOSED SOIL FROM EROSION.

PURPOSE

TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL.

CONDITIONS WHERE PRACTICE APPLIES

ON ALL DISTURBED AREAS NOT STABILIZED BY OTHER METHODS. THIS SPECIFICATION IS DIVIDED INTO SECTIONS ON INCREMENTAL STABILIZATION; SOIL PREPARATION, SOIL AMENDMENTS AND TOPSOILING; SEEDING AND MULCHING; TEMPORARY STABILIZATION; AND PERMANENT STABILIZATION.

EFFECTS ON WATER QUALITY AND QUANTITY

STABILIZATION PRACTICES ARE USED TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL. WHEN SOIL IS STABILIZED WITH VEGETATION, THE SOIL IS LESS LIKELY TO ERODE AND MORE LIKELY TO ALLOW INFILTRATION OF RAINFALL, THEREBY REDUCING SEDIMENT LOADS AND RUNOFF TO DOWNSTREAM AREAS. PLANTING VEGETATION IN DISTURBED AREAS WILL HAVE AN EFFECT ON THE WATER BUDGET, ESPECIALLY ON VOLUMES AND RATES OF RUNOFF, INFILTRATION, EVAPORATION, TRANSPERSION, PERCOLATION, AND GROUNDWATER RECHARGE. OVER TIME, VEGETATION WILL INCREASE ORGANIC MATTER CONTENT AND IMPROVE THE WATER HOLDING CAPACITY OF THE SOIL AND SUBSEQUENT PLANT GROWTH. VEGETATION WILL HELP REDUCE THE MOVEMENT OF SEDIMENT, NUTRIENTS, AND OTHER CHEMICALS CARRIED BY RUNOFF TO RECEIVING WATERS. PLANTS WILL ALSO HELP PROTECT GROUNDWATER SUPPLIES BY ASSIMILATING THOSE SUBSTANCES PRESENT WITHIN THE ROOT ZONE. SEDIMENT CONTROL PRACTICES MUST REMAIN IN PLACE DURING GRADING, SEEDBED PREPARATION, SEEDING, MULCHING, AND VEGETATIVE ESTABLISHMENT.

ADEQUATE VEGETATIVE ESTABLISHMENT

INSPECT SEEDED AREAS FOR VEGETATIVE ESTABLISHMENT AND MAKE NECESSARY REPAIRS, REPLACEMENTS, AND RESEEDINGS WITHIN THE PLANTING SEASON.

1. ADEQUATE VEGETATIVE STABILIZATION REQUIRES 45 PERCENT GROUNDCOVER.
2. IF AN AREA HAS LESS THAN 40 PERCENT GROUNDCOVER, RESTABILIZE FOLLOWING THE ORIGINAL RECOMMENDATIONS FOR LIME, FERTILIZER, SEEDBED PREPARATION, AND SEEDING.
3. IF AN AREA HAS BETWEEN 40 AND 44 PERCENT GROUNDCOVER, OVER-SEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY SPECIFIED.
4. MAINTENANCE FERTILIZER RATES FOR PERMANENT SEEDING ARE SHOWN IN TABLE B-6.

B-4-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

DEFINITION

ESTABLISHMENT OF VEGETATIVE COVER ON CUT AND FILL SLOPES.

PURPOSE

TO PROVIDE TIMELY VEGETATIVE COVER ON CUT AND FILL SLOPES AS WORK PROGRESSES.

CONDITIONS WHERE PRACTICE APPLIES

ANY CUT OR FILL SLOPE GREATER THAN 15 FEET IN HEIGHT. THIS PRACTICE ALSO APPLIES TO STOCKPILES.

CRITERIA

A. INCREMENTAL STABILIZATION - CUT SLOPES

1. EXCAVATE AND STABILIZE CUT SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL CUT SLOPES AS THE WORK PROGRESSES.
2. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.1):
 - a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO CONVEY RUNOFF AROUND THE EXCAVATION.
 - b. PERFORM PHASE 1 EXCAVATION, PREPARE SEEDBED, AND STABILIZE.
 - c. PERFORM PHASE 2 EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PHASE 1 AREAS AS NECESSARY.
 - d. PERFORM FINAL PHASE EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEDED AREAS AS NECESSARY.

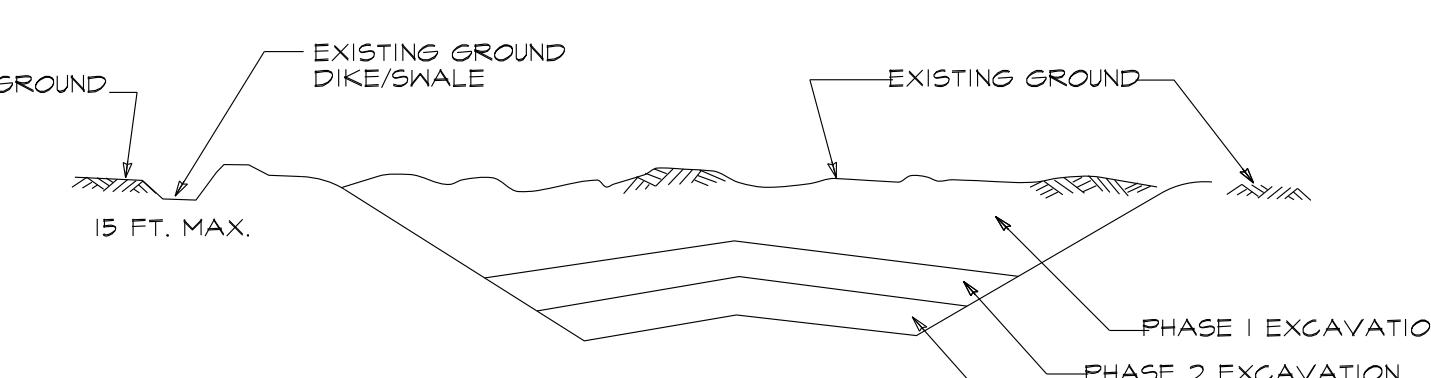


Figure B.1: Incremental Stabilization - Cut

B. INCREMENTAL STABILIZATION - FILL SLOPES

1. CONSTRUCT AND STABILIZE FILL SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL SLOPES AS THE WORK PROGRESSES.
2. STABILIZE SLOPES IMMEDIATELY WHEN THE VERTICAL HEIGHT OF A LIFT REACHES 15 FEET, OR WHEN THE GRADING OPERATION CEASES AS PRESCRIBED IN THE PLANS.
3. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
4. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO FIGURE B.2):
 - a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO DIVERT RUNOFF AROUND THE FILL. CONSTRUCT SILT FENCE ON LOW SIDE OF FILL UNLESS OTHER METHODS SHOWN ON THE PLANS ADDRESS THIS AREA.
 - b. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
 - c. PLACE PHASE 1 FILL, PREPARE SEEDBED, AND STABILIZE.
 - d. PLACE PHASE 2 FILL, PREPARE SEEDBED, AND STABILIZE.
 - e. PLACE FINAL PHASE FILL, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEDED AREAS AS NECESSARY.

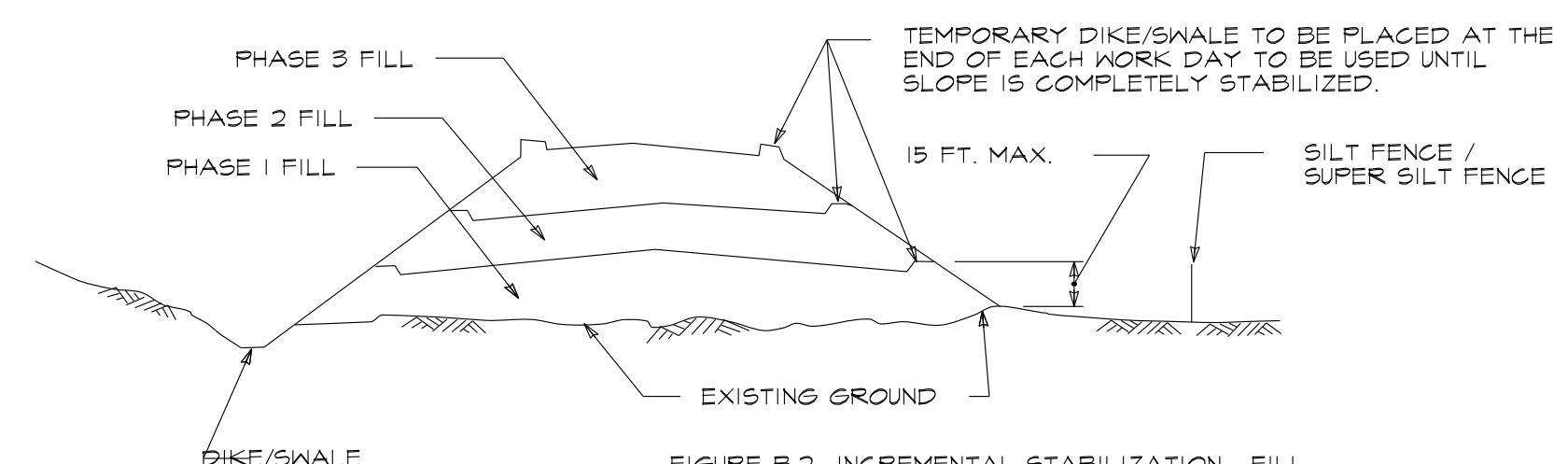


Figure B.2: Incremental Stabilization - Fill

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

DEFINITION

THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.

PURPOSE

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.

CONDITIONS WHERE PRACTICE APPLIES

WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

CRITERIA

A. SOIL PREPARATION

1. TEMPORARY STABILIZATION

1. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPER MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
2. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
3. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

2. PERMANENT STABILIZATION

1. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
 - i. SOIL PH BETWEEN 6.0 AND 7.0.
 - ii. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
 - iii. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
 - iv. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
 - v. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
2. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
3. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
4. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
5. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SMOOTH THE SURFACE. REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEARLY DISTURBED AREAS.

B. TOPSOILING

1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 - c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.
5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:
 - a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE BE A MIXTURE CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDER, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 INCH IN DIAMETER.
 - b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
 - c. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
6. TOPSOIL APPLICATION
 - a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
 - b. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
 - c. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETERIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 90 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

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DRAWN BY: VJ
CHECKED BY: AP
STABILIZATION NOTES
SHEET C-6.04
BCNR-10111 EPLANS #2022-54 ESD #8124

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

DEFINITION
TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

PURPOSE
TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

CRITERIA

1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

TEMPORARY SEEDING SUMMARY

HARDNESS ZONE (from figure B.3): SEED MIXTURE (from table B.1):					7A	FERTILIZER RATE (10-20-20)	LIME RATE
NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTH(S)			
	ANNUAL RYEGRASS	40	FEB. 15-APR. 30 AUG. 15-NOV. 30	1/2 "			
	FOXTAIL MILLET	30	MAY 1-AUG. 14	1/2 "			
	ANNUAL RYEGRASS	40	DEC. 1-FEB. 14	1/2 "			

436 lb/ac
(10 lb/1000 sf)

2 tons/ac
(50 lb/1000 sf)

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

DEFINITION
TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

PURPOSE
TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

CRITERIA

1. **SEED MIXTURES**
 1. **GENERAL USE**
 - a. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
 - b. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 - CRITICAL AREA PLANTING.
 - c. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.
 - d. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.
 2. **TURFGRASS MIXTURES**
 - i. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.
 - ii. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
 - a. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 15 TO 20 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
 - b. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
 - iii. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES: CERTIFIED TALL FESCUE CULTIVARS 45 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.
 - iv. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES: CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1 TO 3 POUNDS PER 1000 SQUARE FEET.

NOTES:

SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR CULTIVAR RECOMMENDATIONS FOR MARYLAND".

CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE.

- c. **IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES**
WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A)
CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B)
SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B)
- d. **TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1 INCH IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOKING OF GRASSES WILL POSE NO DIFFICULTY.**
- e. **IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.**

PERMANENT SEEDING SUMMARY

HARDNESS ZONE (from figure B.3): SEED MIXTURE (from table B.1):					7A	FERTILIZER RATE (10-20-20)	LIME RATE
NO.	SPECIES	APPLICATION RATE (lb/ac)	SEEDING DATES	SEEDING DEPTHS			
11	CREEPING RED FESCUE KENTUCKY BLUEGRASS CHENING FESCUE	30 20 30	FEB. 15-APR. 30 AUG. 15-OCT. 31 NOV. 1 - NOV. 30	1/4 - 1/2 in.			
2	TALL FESCUE	100	FEB. 15-APR. 30 AUG. 15-OCT. 31 NOV. 1 - NOV. 30	1/4 - 1/2 in.		45 POUNDS PER ACRE (10 lb/1000 sf)	20 lb/ac (2 lb/1000 sf)
4	TALL FESCUE KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	60 40 20	FEB. 15-APR. 30 AUG. 15-OCT. 31 NOV. 1 - NOV. 30	1/4 - 1/2 in.		90 lb/ac (2 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)
3	DEERTONGUE CANADA WILD RYE COMMON LESPEDEZA	20 3 10	FEB. 15-APR. 30 MAY 1 - MAY 31	1/4 - 1/2 in.			2 tons/ac (50 lb/1000 sf)

B. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).

1. **GENERAL SPECIFICATIONS**
 - a. **CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.**
 - b. **SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 1 INCH, PLUS OR MINUS .1 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH, BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.**
 - c. **STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.**
 - d. **SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.**
 - e. **SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.**
2. **SOD INSTALLATION**
 - a. **DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.**
 - b. **LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT Voids WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.**
 - c. **WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.**
 - d. **WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.**
3. **SOD MAINTENANCE**
 - a. **IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.**
 - b. **AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.**
 - c. **DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN .5 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.**

Mark	Date	Description
1	08/08/2025	BID SET

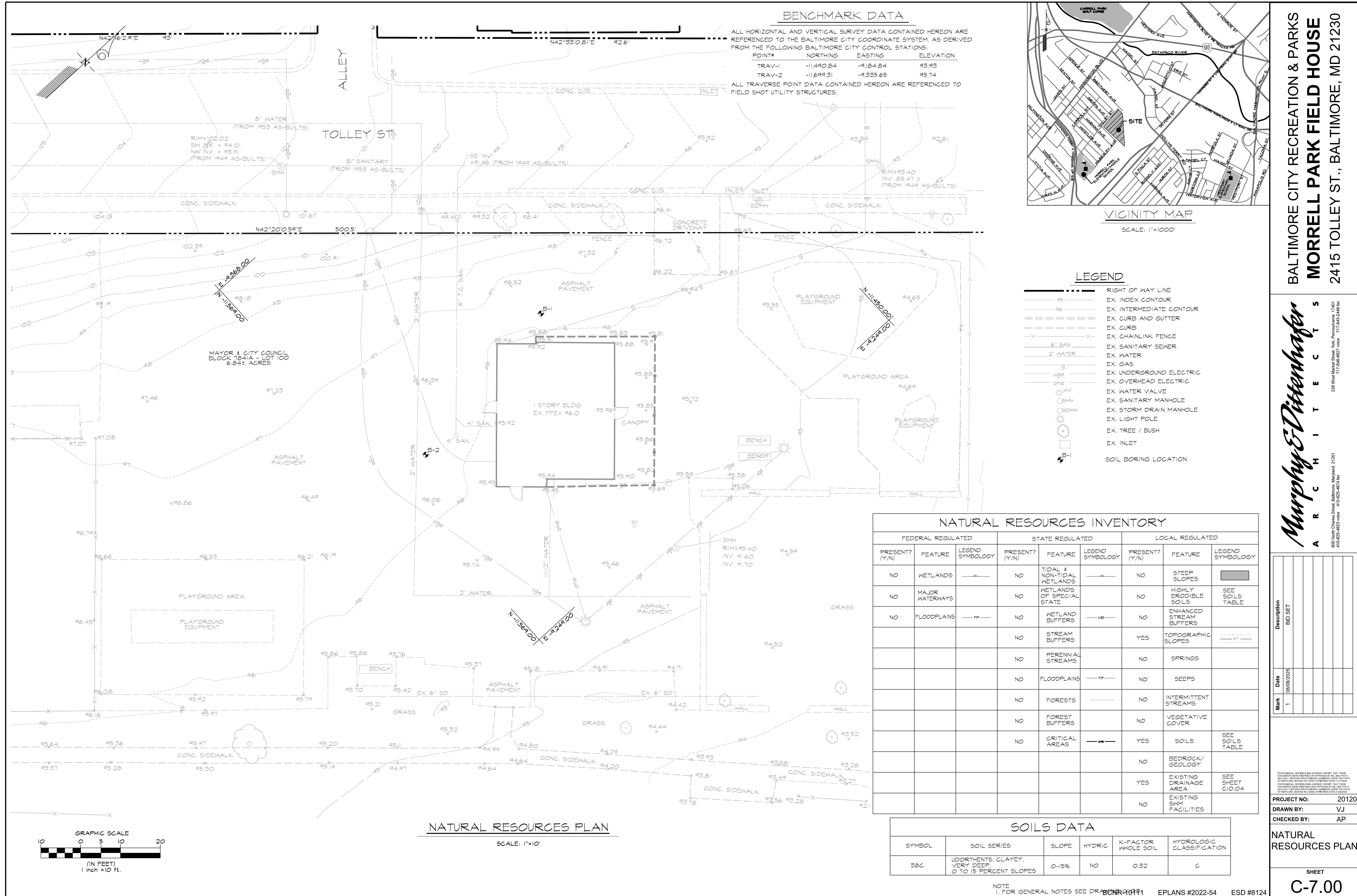
PROJECT NO: 20120
DRAWN BY: VJ
CHECKED BY: AP
STABILIZATION NOTES

SHEET
C-6.05

BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230

Murphy & Dittnerhauer
ARCHITECTS
800 North Charles Street, Baltimore, Maryland 21201
410-625-4823 voice 410-625-4671 fax
228 West Market Street, York, Pennsylvania 17401
717-845-4627 voice

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED ON APPROVAL OF ME, AND THAT I AM THE OWNER OF THE INFORMATION CONTAINED THEREIN. I AM A REGISTERED LANDSCAPE ARCHITECT IN THE STATE OF MARYLAND, LICENSE NO. 2050, EXPIRATION DATE: 11/2025.
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED AND APPROVED BY ME, AND THAT I AM THE OWNER OF THE INFORMATION CONTAINED THEREIN. I AM A REGISTERED LANDSCAPE ARCHITECT IN THE STATE OF MARYLAND, LICENSE NO. 3588, EXPIRATION DATE: 11/2025.



**Navarro & Wright
Consulting Engineers**

ENGINEERS FIELD BORING LOG

PROJECT NAME Morrell Park Field House COUNTY Baltimore

LOCATION _____ NORTHING _____ EASTING _____

INSPECTOR (SIGNED) J. Hu DRILLERS NAME/COMPANY S. Foster

EQUIPMENT USED CME-55

DRILLING METHODS 2.0' Continuous Interval Sampling

CASING: SIZE: 3.25" HSA DEPTH: _____ WATER: DEPTH: 2.0' TIME: 0 HR DATE: 7/16/21

CHECKED BY: E.N. DATE: 8/20/2021 DEPTH: 3.5' TIME: 24 HR DATE: 7/17/21

BORING NO. <u>B-1</u>
SHEET <u>1</u> OF <u>1</u>
DATE: START <u>7/15/21</u>
END <u>7/16/21</u>
O.G. ELEV. <u>95.0</u>
GWL ELEV. <u>91.5</u>

DEPTH (FT)	SAMPLE NO./ TYPE/CORE RUN	BLOWS/0.5 FT. ON SAMPLER	RECOVERY (Ft.)	RECOVERY (%)	RQD (%)	POCKET PENT/ TORVANE (TSF)	USCS	AASHTO	H ₂ O CONTENT	DESCRIPTION		NOT ENCOUNTERED <input type="checkbox"/>	REMARKS
										DESCRIPTION	NOT ENCOUNTERED		
0										Asphalt			
3.0	S-1	3	1.1	54	-	0.8			0.8	Sandy SILT with gravel, (fl-ml), brown and red, moist, stiff (Fill)	94.2		S-1: 23.7%
5.0	S-2	3	0.8	42	-	1.0			1.0	Fine silty SAND, (fl-sm), brown, wet, medium dense (Fill)	94.0		S-2: 18.9%
7.0	S-3	3	1.0	50	-	3.0			3.0	Lean CLAY, some Sand, (cl), brown and gray, moist, firm (LL=23%, PI=6%)	92.0		S-3 18.4%
9.0	S-4	2	0.7	33	-	4			4				S-4: 22.9%
11.0	S-5	4	1.2	58	-	3			3	Fine silty SAND, (sm), brown and white, wet, loose	88.0		S-5: 25.9%
13.0	S-6	2	2.0	100	-	2			2				S-6: 26.8%
15.0	S-7	3	1.3	67	-	3			3				S-7: 20.0%
20						4			4	End of boring at 15.0'	80.0		

Job Number: 2107GT126

BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230

Murphy & Dittner
A R c H i T E c T s

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE STATE OF MARYLAND, LICENSE NO. 25058, EXPIRATION DATE, 11-17-2026.

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE STATE OF MARYLAND, LICENSE NO. 38369, EXPIRATION DATE, 01-06-2026.

ECHECKED BY: AP

SHEET
C-8.00

HAZARDOUS MATERIALS ABATEMENT NOTES	DEMOLITION GENERAL NOTES																												
<p>HAZARDOUS MATERIALS ABATEMENT NOTES</p> <ol style="list-style-type: none"> 1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL HAZARDOUS MATERIAL TESTING AND ABATEMENT FOUND DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR HAZARDOUS MATERIAL TRAINING FOR ALL CONTRACTOR AND SUB-CONTRACTOR PERSONNEL. ALL WORKERS SHALL BE INFORMED OF THE POTENTIAL TYPES AND LOCATIONS OF ALL HAZARDOUS MATERIALS AT THE JOBSITE. ALL WORKERS SHALL BE INSTRUCTED TO STOP WORK PROCEDURES IF ANY UNKNOWN, SUSPECTED OR FORESEEN HAZARDOUS MATERIALS ARE ENCOUNTERED. THEY SHALL NOT BE DISTURBED WITHOUT AUTHORIZATION OF THE GENERAL CONTRACTOR. IF THE GENERAL CONTRACTOR CANNOT MAKE A DETERMINATION REGARDING THE NATURE OF THE SUSPECT HAZARDOUS MATERIALS BASED ON CONTRACT DOCUMENTS, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO HIRE A THIRD PARTY INSPECTOR TO MAKE THE DETERMINATION. THE GENERAL CONTRACTOR WILL ASSURE THAT KNOWN OR SUSPECT HAZARDOUS MATERIALS ARE ONLY DISTURBED BY PROPERLY TRAINED AND LICENSED CONTRACTORS AND PERSONNEL AND ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. 2. THE GENERAL CONTRACTOR SHALL PERFORM SURVEYS AS WORK PROGRESSES TO DETECT HAZARDS RESULTING FROM SELECTIVE DEMOLITION ACTIVITIES. WHEN CONDUCTING ANY CONTRACT WORK, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ASBESTOS-CONTAINING MATERIAL (ACM) DISTURBANCES ON THE OTHER SIDE OF WALLS, FLOOR SLABS, OR CEILING DECKS ADJACENT TO THE IMMEDIATE WORK SPACE. EQUIPMENT PIPING, DUCTING, AND OTHER CONSTRUCTION MATERIALS MAY CAUSE DISTURBANCES IN ADJACENT ROOMS OR AT FLOOR LEVELS. ABOVE OR BELOW THE WORK SPACE, THE GENERAL CONTRACTOR SHALL ANTICIPATE SUCH POTENTIAL DISTURBANCES AND INVESTIGATE CONDITIONS IN ADJOINING AREAS BEFORE WORK BEGINS. CONDUCT ABATEMENT OR TAKE OTHER PRECAUTIONS, AS NECESSARY, TO AVOID ACM DISTURBANCE IN THE WORK SPACE AND IN ADJACENT AREAS. IF PRE-WORK INVESTIGATION IDENTIFIES EXISTING CONDITIONS REQUIRING REMEDIATION, DUE TO PREVIOUS WORK BY OTHERS, THE DISTURBED MATERIALS SHALL BE REMEDIATED TO AVOID FURTHER DISTURBANCE. 3. ASBESTOS PIPE AND FITTING INSULATION MAY EXIST IN INACCESSIBLE AREAS OF THE BUILDING STRUCTURES, SUCH AS ABOVE FIXED PLASTER AND DRYWALL CEILINGS, BEHIND CASEWORK, AND IN HIDDEN WALL, CEILING, AND OTHER CHASES. AS THESE BUILDING STRUCTURES ARE MADE ACCESSIBLE FOR RENOVATION PURPOSES, HIDDEN ASBESTOS-CONTAINING MATERIALS AND CONDITIONS MAY BE REVEALED. AT THE TIME THAT THE BUILDING STRUCTURE IS ACCESSED, THE GENERAL CONTRACTOR (OR HIS DESIGNATED LICENSED ASBESTOS INSPECTOR) SHALL BE PRESENT TO INSPECT THE CONCEALED BUILDING STRUCTURE(S). THE CONTRACTOR MAY NOT USE UNLICENSED ASBESTOS CONTRACTORS PRESENT AT ALL TIMES WHILE WORK IS TAKING PLACE WITHIN THE CONCEALED BUILDING STRUCTURE. THE GENERAL CONTRACTOR SHALL BE PRESENT TO ENSURE THAT NO UNFORESEEN ASBESTOS MATERIALS OR CONDITIONS ARE ENCOUNTERED. WHILE WORKING IN THESE BUILDING STRUCTURES, WORKERS WHO ARE NOT TRAINED TO RECOGNIZE ASBESTOS MATERIALS OR HAZARDS SHALL NOT BE ALLOWED TO WORK UNSUPERVISED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF REMEDIATION IF UNFORESEEN HAZARDOUS MATERIALS ARE DISTURBED DUE TO NEGLIGENCE OR POOR SUPERVISION OF WORKERS. 4. THE GENERAL CONTRACTOR SHALL REPORT ALL ENVIRONMENTAL OR HAZARDOUS MATERIALS TESTING OR SAMPLING RESULTS TO THE ENGINEER. A COPY OF LABORATORY REPORTS MUST BE SUBMITTED TO THE ENGINEER IMMEDIATELY UPON RECEIPT BY THE GENERAL CONTRACTOR OR ANY OF HIS DIRECT OR INDIRECT SUBCONTRACTORS. THE LABORATORY REPORT SHALL CONSIST OF A FAX COPY OF THE LABORATORY REPORT FORM AND COPY OF CUSTODY FORM FOLLOWED BY A TELEPHONE CALL CONFIRMING FAX RECEIPT. DURING OPERATIONS, RESULTS OF SAMPLING WILL BE REPORTED DAILY, BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING: ASBESTOS BULK SAMPLES; FINAL CLEARANCE AIR SAMPLES; LEAD-PAINT CHIP OR DUST WIPES SAMPLES; POST-STERILIZATION WATER SAMPLES FOR BACTERIA; OR WATER SAMPLES FOR ANY OTHER CONTAMINANTS. 5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF HAZARDOUS MATERIALS BY PROPERLY TRAINED AND LICENSED PERSONNEL. 6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION, AND SCHEDULING OF ALL HAZARDOUS MATERIALS ABATEMENT WORK. THE HAZARDOUS MATERIALS ABATEMENT CONTRACTOR IS TO BE APPROPRIATELY LICENSED BY ALL APPLICABLE REGULATORY AGENCIES. ASBESTOS ABATEMENT CONTRACTORS SHALL ADDITIONALLY COMPLY WITH AHERA REGULATIONS, INCLUDING BUT NOT LIMITED TO: AN ACCREDITED LABOR FORCE AND AN ON-SITE ACCREDITED SUPERVISOR AVAILABLE AT ALL TIMES ABATEMENT WORK OCCURRING. 7. ALL HAZARDOUS MATERIALS ABATEMENT WORK (INCLUDING SET-UP OPERATIONS, ABATEMENT, AND TEAR-DOWN OPERATIONS) SHALL BE SCHEDULED AT TIMES WHEN THE BUILDING IS NOT OCCUPIED. 8. THE GENERAL CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND LIABILITY FOR THE COMPLIANCE WITH ALL APPLICABLE LAWS, REGULATIONS, STANDARDS, LICENSING REQUIREMENTS AND PATENTED SYSTEMS PERTAINING TO ASBESTOS ABATEMENT, WORK PRACTICES, HAULING, DISPOSAL AND PROTECTION OF WORKERS, VISITORS TO THE WORK SITE AND PERSONS OCCUPYING AREAS ADJACENT TO THE WORK SITE. THE GENERAL CONTRACTOR SHALL HOLD HARMLESS THE INDIVIDUAL OWNERS OF ANY PROPERTY AS A LEGEE OF PROPERTY INVESTED IN, FAILING TO COMPLY WITH APPLICABLE STANDARDS AND LICENSING REQUIREMENTS ON THE PART OF HIMSELF, HIS EMPLOYEES OR HIS SUB-CONTRACTORS. 9. THE GENERAL CONTRACTOR SHALL HAVE AVAILABLE, COPIES OF ALL APPLICABLE CODES, REGULATIONS, STANDARDS, DOCUMENTS, THE ASBESTOS SURVEY REPORT, AND ALL OTHER RELATED SPECIFICATION SECTIONS AND DRAWINGS. 10. WHERE CONFLICTS AMONG THE REQUIREMENTS OF THE CODES, REGULATIONS, STANDARDS, DOCUMENTS, SPECIFICATIONS, AND DRAWINGS EXIST, THE MOST STRINGENT REQUIREMENT SHALL BE UTILIZED BY THE GENERAL CONTRACTOR. 11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COMPOSING AND SUBMITTING TO THE PROPER AUTHORITIES ANY REQUIRED FEDERAL, STATE AND LOCAL ASBESTOS ABATEMENT NOTIFICATION. THE GENERAL CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR SUBMITTING TO THE PROPER AUTHORITIES ANY REVISIONS TO THE ORIGINAL NOTIFICATION. 12. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR POSTING THE NOTICE OF ASBESTOS PROJECT SIGNS AT THE REQUIRED LOCATIONS IN OR ON THE BUILDING. THE GENERAL CONTRACTOR SHALL ENSURE THAT THESE SIGNS REMAIN IN PLACE THROUGHOUT THE PROJECT. 13. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER AND THE OWNER 10 DAYS PRIOR TO CONDUCTING ANY ASBESTOS OR LEAD ABATEMENT WORK AT THE JOBSITE. THE OWNER MUST BE INFORMED AT LEAST 7 BUSINESS DAYS PRIOR TO POSTING ASBESTOS NOTIFICATION SIGNS ON THE BUILDING AND / OR PROPERTY. 14. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A PROJECT DESIGN AS REQUIRED BY TITLE 40, CODE OF FEDERAL REGULATIONS, PART 763.90(i). 15. THE PROJECT SHALL BE DESIGNED AND CONDUCTED BY INDIVIDUALS ACCREDITED TO PERFORM THESE FUNCTIONS IN ACCORDANCE WITH TITLE 40, CODE OF FEDERAL REGULATIONS, PART 61, SUBPART E. 15A. PROVIDE THE NAME FOR EACH "AHERA ACCREDITED ASBESTOS ABATEMENT PROJECT DESIGNER" THAT WILL WORK ON THE PROJECT. 15B. PROVIDE THE NAME AND DATE OF HIRE FOR EACH "AHERA ACCREDITED ASBESTOS ABATEMENT WORKER". 15C. PROVIDE THE NAME AND DATE OF HIRE FOR EACH "AHERA ACCREDITED ASBESTOS ABATEMENT SUPERVISOR". THE GENERAL CONTRACTOR AND / OR SUB-CONTRACTOR SHALL PROVIDE AHERA TRAINING CERTIFICATES, AND OTHER DOCUMENTATION (IF REQUESTED BY THE ENGINEER AND / OR OWNER) DOCUMENTING THAT THE SUPERVISOR HAS A MINIMUM OF TWO (2) YEARS EXPERIENCE AS AN AHERA ACCREDITED ASBESTOS ABATEMENT SUPERVISOR. 15D. PROVIDE A COPY OF ALL AHERA CERTIFICATES HELD BY EACH WORKER, SUPERVISOR, AND PROJECT DESIGNER. 15E. PROVIDE WRITTEN AFFIRMATION THAT ALL ABATEMENT WORKERS AND SUPERVISORS, AND PROJECT DESIGNERS ARE FULL TIME EMPLOYEES FOR THE ABATEMENT CONTRACTOR; THAT THEY ARE PROPERLY TRAINED, EXPERIENCED, AND AHERA ACCREDITED EMPLOYEES; THAT THEY ARE NOT PART TIME, CONTRACTUAL, OR TEMPORARY EMPLOYEES, AND THAT THESE ARE THE ONLY EMPLOYEES THAT WILL BE USED FOR WORK ON THE PROJECT. 16. PROVIDE A COPY OF THE ABATEMENT COMPANY'S STATE OF MARYLAND LICENSE FOR DOING ASBESTOS ABATEMENT WORK. 17. THE ABATEMENT COMPANY SHALL HAVE SUCCESSFULLY COMPLETED OTHER ASBESTOS ABATEMENT SERVICES OF SIMILAR SCOPE AND SIZE FOR THE OWNER AND / OR ANOTHER SIMILAR AGENCY DURING THE PAST 18 MONTHS. THE ABATEMENT COMPANY SHALL PROVIDE AT LEAST THREE (3) NAMES OF CONTACT PERSONS AND PHONE NUMBERS, AS REFERENCES, FOR THESE SUCCESSFULLY COMPLETED SIMILAR ASBESTOS ABATEMENT EXPERIENCES. ABATEMENT COMPANIES WHO CANNOT DEMONSTRATE TO THE SATISFACTION OF THE OWNER THAT THEY HAVE HAD SIMILAR EXPERIENCES ASBESTOS ABATEMENT SERVICES SHALL NOT BE USED. 18. THE ABATEMENT COMPANY SHALL HAVE BEEN IN BUSINESS PROVIDING ASBESTOS ABATEMENT SERVICES FOR A MINIMUM OF THREE (3) YEARS. BUSINESSES WITHOUT THREE (3) YEARS PRIOR EXPERIENCE SHALL NOT BE USED. 19. DETERMINE AND COMPLY WITH THE OWNER'S STANDARDS FOR DOCUMENTING HAZARDOUS MATERIAL TESTING RESULTS AND ABATEMENT OF HAZARDOUS MATERIALS. 	<p>DEMOLITION GENERAL NOTES</p> <ol style="list-style-type: none"> 1. SEE SPECIFICATION SECTION 02 41 00 - DEMOLITION 2. REMOVE ALL EXISTING CONSTRUCTION AND FINISHES NECESSARY FOR THE COMPLETION OF THE WORK AS DEPICTED ON THE DRAWINGS, INCLUDING BUT NOT LIMITED TO, ITEMS SHOWN ON THE PLANS WITH DASHED LINES. 3. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH ADJACENT SPACES. PROTECT ALL EXISTING ITEMS, SURFACES AND FINISHES TO REMAIN. 4. PROVIDE SHORING AND BRACING WHERE NECESSARY. 5. REMOVE AND SALVAGE EXISTING FIXTURES AND DOORS. COORDINATE WITH OWNER FOR REUSE OF MATERIALS. 6. COORDINATE AND DISCONNECT UTILITIES. COORDINATE WITH MEP DRAWINGS. 7. CAP AND IDENTIFY ABANDONED UTILITIES AT TERMINATION POINTS. 8. SEE CIVIL DRAWINGS FOR DEMOLITION OF SITE ELEMENTS AND UTILITIES. 9. NOISE CONTROL: SITE IS SURROUNDED BY A RESIDENTIAL NEIGHBORHOOD. HOURS OF DEMOLITION ARE LIMITED TO DAYLIGHT HOURS BETWEEN 8:00 AM AND 4:00 PM (8 HOURS) ON WEEKDAYS, MONDAY THROUGH FRIDAY. WHEN CONTRACTOR DESIRES TO PERFORM WORK AFTER HOURS AND / OR ON WEEKENDS, REQUEST SHOULD BE MADE IN WRITING (NOT EXCLUDING EMAIL COMMUNICATION) TO BALTIMORE CITY RECREATION AND PARKS (BCRP) AT LEAST 72 HOURS IN ADVANCE. BCRP RETAINS THE RIGHT TO REJECT ALL REQUESTS. 10. DUST CONTROL: SITE IS SURROUNDED BY A RESIDENTIAL NEIGHBORHOOD. CONTRACTOR SHALL UTILIZE SPRAY WATER FOR DUST CONTROL AND / OR OTHER DUST CONTROL MEASURES IN ORDER TO PREVENT AIRBORNE DUST FROM SETTLING ON NEIGHBORHOOD PROPERTIES. 11. OUTAGES: SITE IS SURROUNDED BY A RESIDENTIAL NEIGHBORHOOD. CONTRACTOR SHALL ENSURE THAT UTILITY SERVICES - INCLUDING BY NOT LIMITED TO ELECTRICITY, WATER, GAS, AND SANITARY SEWER - ARE MAINTAINED TO THE NEIGHBORHOOD. WHEN OUTAGES ARE REQUIRED NOTIFICATION SHALL BE PROVIDED TO BCRP AT LEAST ONE WEEK IN ADVANCE. 12. CONTRACTOR SHALL MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION. SEE CIVIL AND MECHANICAL, ELECTRICAL, & PLUMBING DRAWINGS. 13. CONTRACTOR SHALL REMOVE RUBBISH AND DEBRIS FROM PROJECT SITE DAILY TO KEEP SITE CLEAR AND SAFE. 14. CONTRACTOR SHALL SEPARATE MATERIALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. 15. CONTRACTOR SHALL NOT COMMENCE ANY EXCAVATION, FILLING, OR OTHER EARTH-MOVING OPERATIONS THAT ARE SEQUENTIAL TO DEMOLITION IN AREAS OCCUPIED BY STRUCTURES TO BE DEMOLISHED UNTIL ALL DEMOLITION IN THE AREA HAS BEEN COMPLETED AND DEBRIS REMOVED. 16. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FOR AND SECURING A RAZING / DEMOLITION PERMIT FROM THE BALTIMORE CITY PERMIT OFFICE. 	<p>BALTIMORE CITY RECREATION & PARKS MORRELL PARK FIELD HOUSE 2415 TOLLEY ST., BALTIMORE, MD 21230</p> <p><i>Murphy & Dittnerhafer</i> ARCHITECTS</p> <p>228 West Market Street, York, Pennsylvania 17401 717-848-8627 voice 717-848-8627 fax</p> <p>800 North Charles Street, Baltimore, Maryland 21201 410-625-4623 voice 410-625-4671 fax</p> <table border="1" data-bbox="6393 2810 6739 3571"> <thead> <tr> <th>Mark</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8/3/2021</td> <td>50% CONSTRUCTION DOCUMENTS</td> </tr> <tr> <td>2</td> <td>12/3/2021</td> <td>100% CONSTRUCTION DOCUMENTS</td> </tr> <tr> <td>3</td> <td>8/8/2025</td> <td>BID SET</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>PROJECT NO: 20120 DRAWN BY: KCG CHECKED BY: RDT</p> <p>DEMOLITION AND HAZMAT NOTES</p> <p>SHEET</p> <p>AD-100</p>	Mark	Date	Description	1	8/3/2021	50% CONSTRUCTION DOCUMENTS	2	12/3/2021	100% CONSTRUCTION DOCUMENTS	3	8/8/2025	BID SET															
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BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230

Murphy & Dittner Associates
A R C H I T E C T S
800 North Charles Street, Baltimore, Maryland 21201
410-625-4623 voice 410-525-4671 fax

Mark	Date	Description
1	8/3/2021	50% CONSTRUCTION DOCUMENTS
2	12/3/2021	100% CONSTRUCTION DOCUMENTS
3	8/8/2025	BID SET

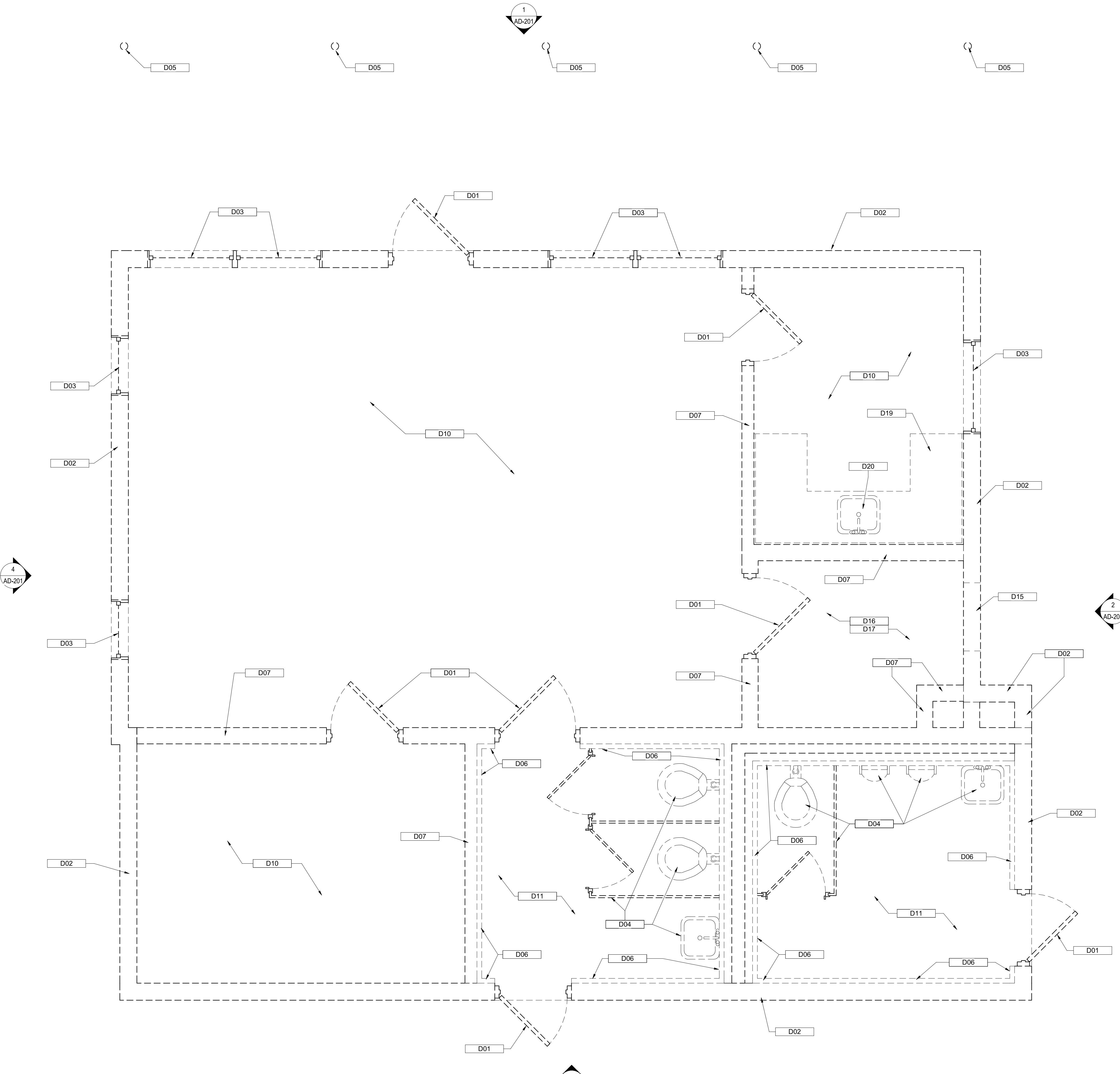
PROJECT NO: 20120
DRAWN BY: KCG
CHECKED BY: RDT

FIRST FLOOR
DEMOLITION
PLAN
SHEET
AD-101

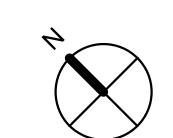
DEMOLITION LEGEND	
Existing wall construction to remain	EXISTING WALL CONSTRUCTION TO REMAIN
Existing wall construction to be removed	EXISTING WALL CONSTRUCTION TO BE REMOVED

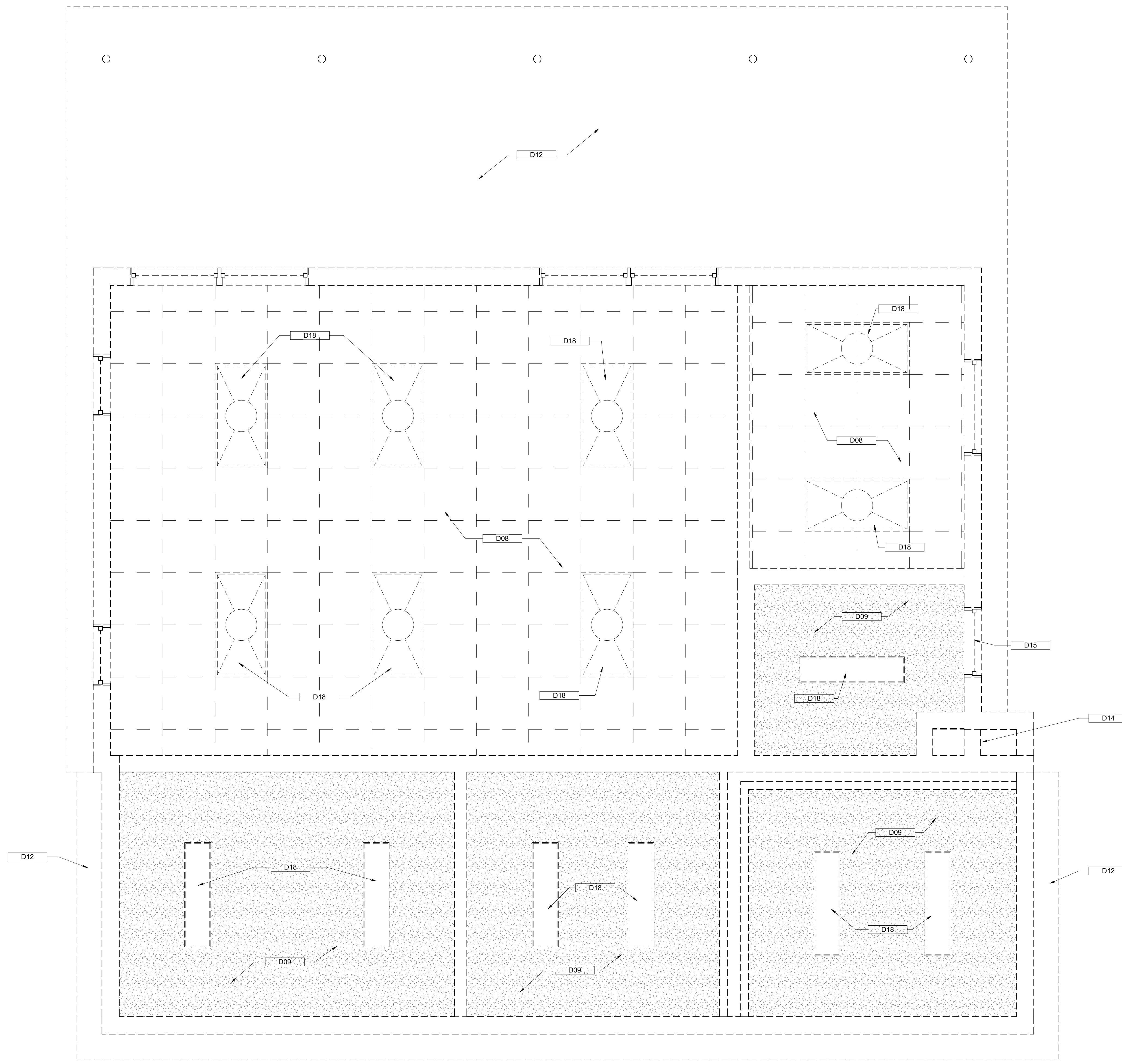
NOTE: REFER TO CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

KEYNOTE LEGEND	
TAG	DESCRIPTION
D01	REMOVE EXISTING DOOR, FRAME, AND HARDWARE IN ITS ENTIRETY.
D02	REMOVE EXISTING CMU AND BRICK MASONRY WALL IN ITS ENTIRETY.
D03	REMOVE EXISTING WINDOW, FRAME, AND ACCESSORIES IN ITS ENTIRETY.
D04	REMOVE EXISTING PLUMBING FIXTURES, TOILET ACCESSORIES, AND TOILET PARTITIONS. COORDINATE WITH MEP.
D05	REMOVE EXISTING STEEL COLUMN IN ITS ENTIRETY.
D06	REMOVE EXISTING CMU PARTITION WITH CERAMIC TILE IN ITS ENTIRETY.
D07	REMOVE EXISTING CMU PARTITION IN ITS ENTIRETY.
D10	REMOVE EXISTING FLOOR FINISH IN ITS ENTIRETY.
D11	REMOVE EXISTING CERAMIC TILE FLOORING IN ITS ENTIRETY.
D15	REMOVE EXISTING LOUVER, FRAME, AND ACCESSORIES IN ITS ENTIRETY.
D16	REMOVE EXISTING ALL MECHANICAL EQUIPMENT. COORDINATE WITH MEP.
D17	REMOVE EXISTING ALL ELECTRICAL EQUIPMENT. COORDINATE WITH MEP.
D19	REMOVE EXISTING CASEWORK, COUNTERTOP, AND SHELVING IN ITS ENTIRETY.
D20	REMOVE EXISTING SINK. COORDINATE WITH MEP.



① FIRST FLOOR DEMOLITION PLAN
1/2" = 1'-0"





KEYNOTE LEGEND	
TAG	DESCRIPTION
D08	REMOVE EXISTING ACOUSTIC TILE CEILING AND GRID IN ITS ENTIRETY.
D09	REMOVE EXISTING GWB CEILING IN ITS ENTIRETY.
D12	REMOVE EXISTING WOOD SOFFIT IN ITS ENTIRETY.
D14	REMOVE EXISTING MASONRY CHIMNEY AND CONCRETE CAP IN ITS ENTIRETY.
D15	REMOVE EXISTING LOUVER, FRAME, AND ACCESSORIES IN ITS ENTIRETY.
D18	REMOVE EXISTING LIGHT FIXTURE. COORDINATE WITH MEP.

NOTE: SEE AD-100 FOR DEMOLITION GENERAL NOTES

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100 North Charles Street, Baltimore, Maryland 21201
10-625-4623 voice 410-625-4674 fax

1	8/31/2021	50% CONSTRUCTION DOCUMENTS
2	12/3/2021	100% CONSTRUCTION DOCUMENTS
3	8/8/2025	BID SET

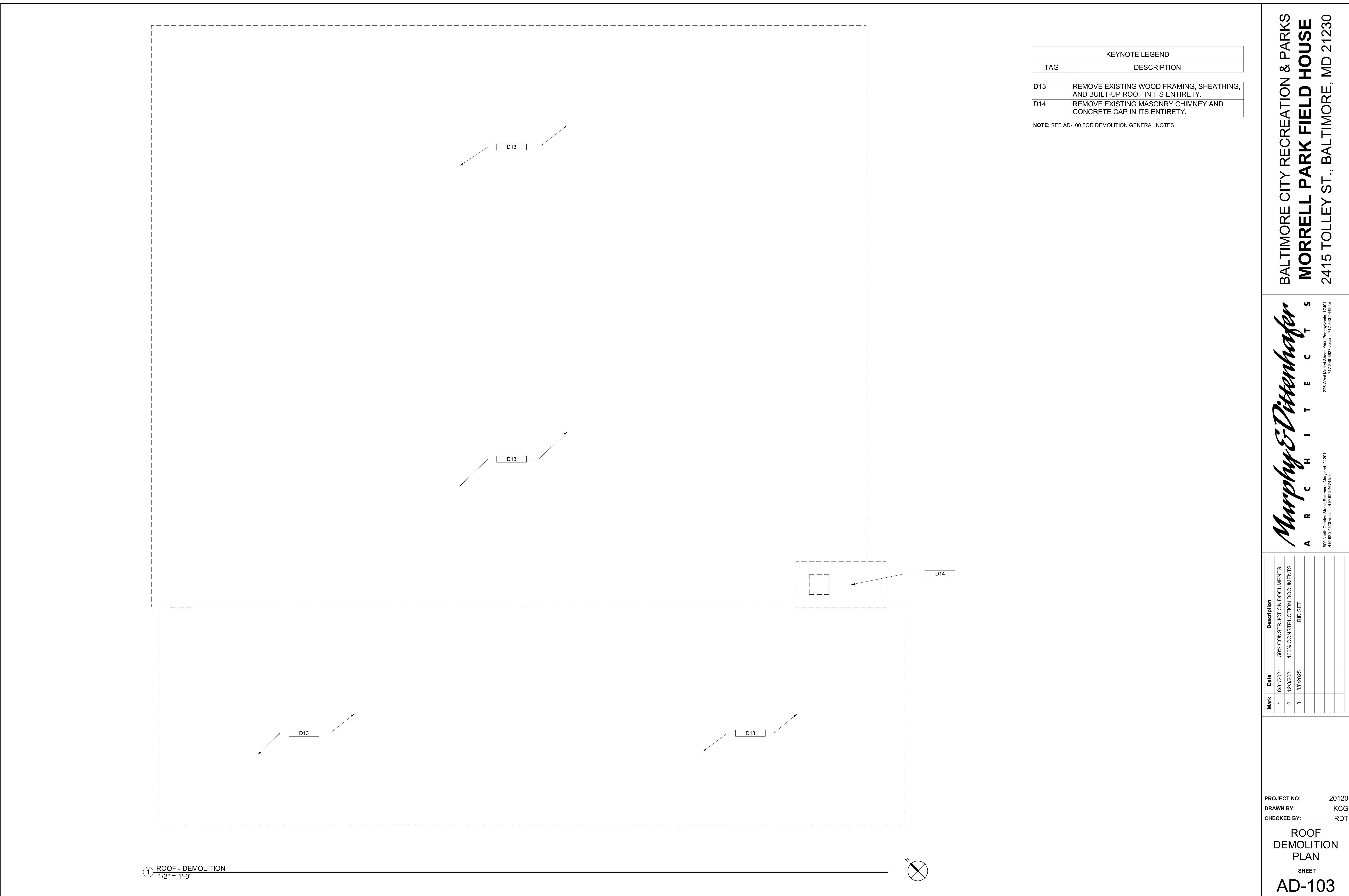
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WN BY: KCG
CKED BY: RDT

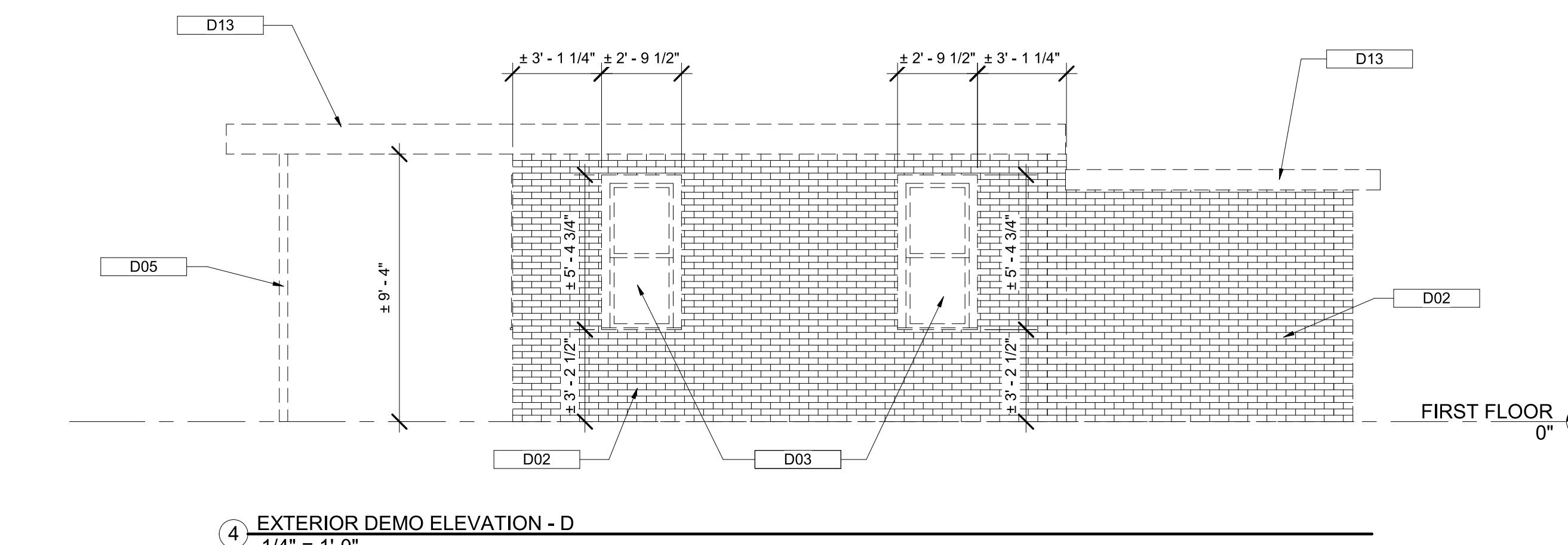
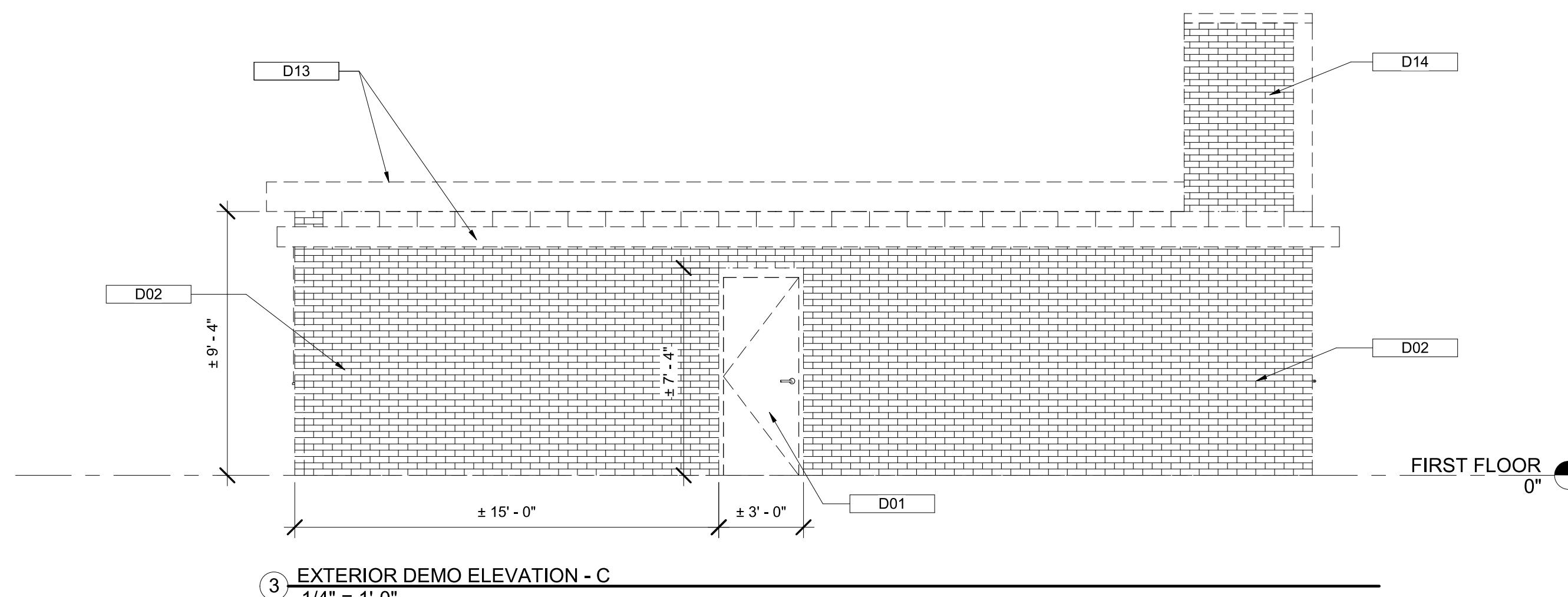
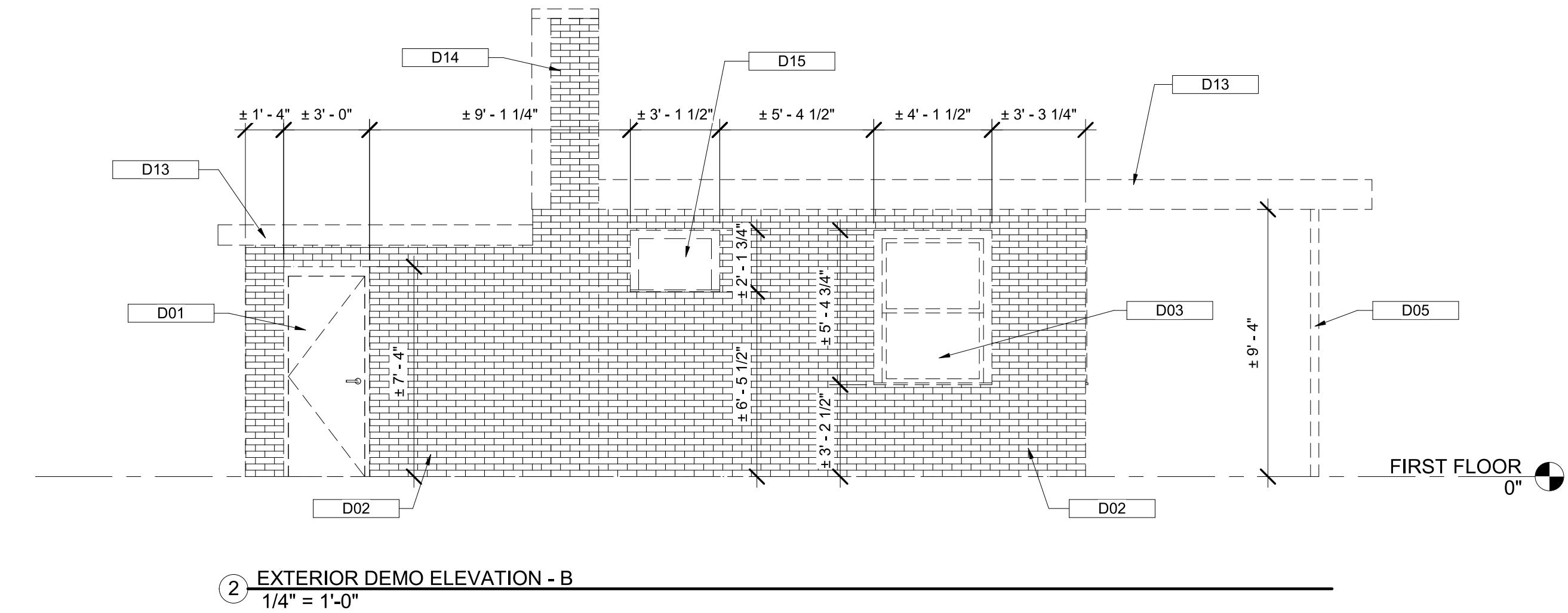
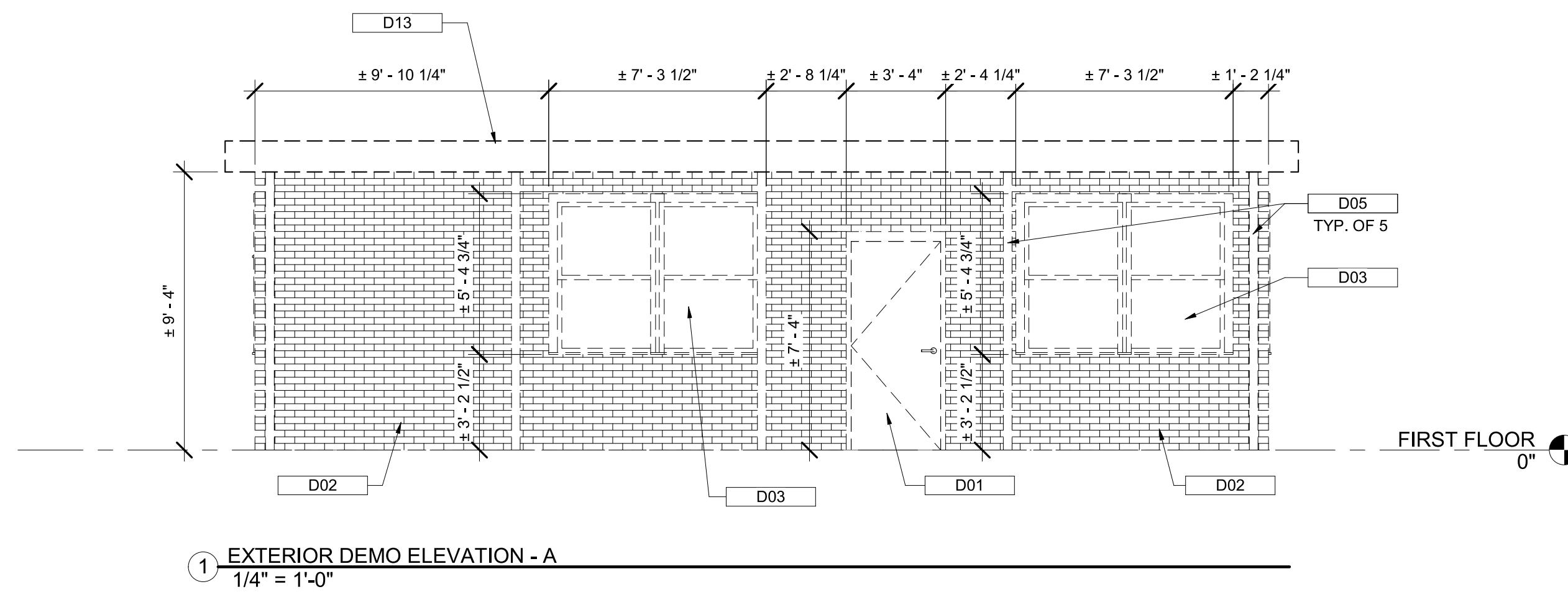
CEILING DEMOLITION PLAN

PLAN SHEET

AD-102

1 FIRST FLOOR - DEMOLITION REFLECTED CEILING PLAN
1/2" = 1'-0"





PROJECT NO:	2012
DRAWN BY:	KC
CHECKED BY:	RD

EXTERIOR ELEVATIONS - DEMOLITION

SHEET

AD-201

KEYNOTE LEGEND	
TAG	DESCRIPTION
D01	REMOVE EXISTING DOOR, FRAME, AND HARDWARE IN ITS ENTIRETY.
D02	REMOVE EXISTING CMU AND BRICK MASONRY WALL IN ITS ENTIRETY.
D03	REMOVE EXISTING WINDOW, FRAME, AND ACCESSORIES IN ITS ENTIRETY.
D05	REMOVE EXISTING STEEL COLUMN IN ITS ENTIRETY.
D13	REMOVE EXISTING WOOD FRAMING, SHEATHING, AND BUILT-UP ROOF IN ITS ENTIRETY.
D14	REMOVE EXISTING MASONRY CHIMNEY AND CONCRETE CAP IN ITS ENTIRETY.

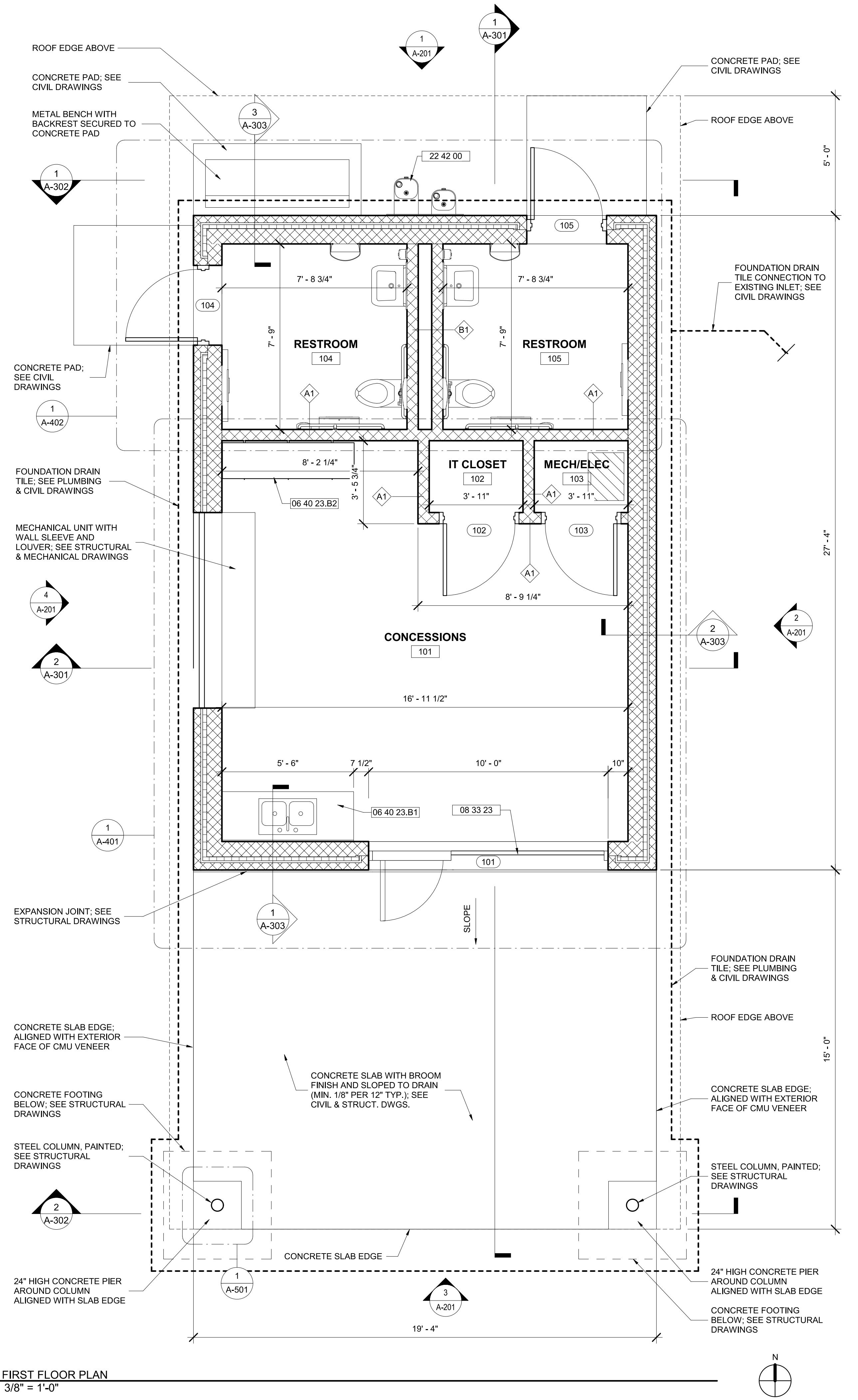
NOTE: SEE AP-100 FOR DEMOLITION GENERAL NOTES.

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MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230

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KEYNOTE LEGEND	
TAG	DESCRIPTION
06 40 23.B1	Stainless Steel Countertop and Backsplash
06 40 23.B2	Metal Standard and Bracket Open Adjustable Shelving
08 33 23	Roll-Up Door with Insulated Panel and Pedestrian Door
22 42 00	Water Cooler - See Plumbing Drawings

NOTE: CONDUIT TO BE RUN IN BLOCK

GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL COORDINATE ALL WORK FOR THIS PROJECT WITH ALL TRADES AND/OR WITH SUBCONTRACTORS AS TO ASSURE THE PROPER EXECUTION OF WORK.
2. THE BUILDING OWNER SHALL APPLY AND PAY FOR THE BUILDING PERMIT. A COPY OF THE APPROVED PERMIT PLANS WILL REMAIN ON THE JOB SITE AT ALL TIMES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND SECURING THE RAZING / DEMOLITION PERMIT FROM THE BALTIMORE CITY PERMIT OFFICE.
3. THE GENERAL CONTRACTOR SHALL SCHEDULE ALL NECESSARY INSPECTIONS AND ACQUIRE FINAL CERTIFICATE OF OCCUPANCY.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS AND UNL. AND ALL OTHER RESOURCES REQUIRED TO COMPLETE THE PROJECT.
5. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL EXAMINE THE DRAWINGS AND CHECK ALL MEASUREMENTS AND DETAILS. CONTRACTOR AND SUBCONTRACTOR SHALL ALSO COMPARE THE PLANS WITH THE SPECIFICATIONS, AS ANY ITEM REQUIRED IN ONE OR THE OTHER, IF NOT DUPLICATED, SHALL IN ANY EVENT BE CONSTRUED TO BE PART OF BOTH.
6. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS AT THE BUILDING AS SHOWN ON THE DRAWINGS, AND THEY SHALL REPORT ANY INCONSISTENCIES IN THE ABOVE TO THE ENGINEER BEFORE COMMENCING WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS. ANY DIFFERENCES SHALL BE SUBMITTED TO THE ENGINEER FOR DISCUSSION BEFORE PROCEEDING WITH THE WORK.
7. THE CONTRACTOR SHALL PROVIDE ALL SHORING, NEEDLING, BRACING AND SHEATHING AS REQUIRED FOR SAFETY AND FOR THE PROPER EXECUTION OF HIS WORK AND HAVE SAME REMOVED WHEN THE WORK IS COMPLETED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN-UP OF THE WORK AND DISPOSAL OF TRASH AND DEBRIS OFF THE PREMISES. ALL DEBRIS AND WASTE MATERIAL SHALL BE REMOVED FROM THE SITE AT THE END OF EACH WORKING DAY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
9. THE GENERAL CONTRACTOR SHALL PERFORM A FINAL CLEANUP OF ALL NEW WORK PRIOR TO TURNING THE COMPLETED PROJECT OVER TO THE OWNER FOR OPERATIONAL USE. IN THE REMOVAL OF ALL MARKS, STAINS AND SOILS FROM SURFACES, REMOVAL OF ALL TEMPORARY PROTECTION, SCAFFOLDING, ETC., CLEAN ALL SURFACES TO INCLUDE GLASS, MIRRORS, TILE AND FLOORS.
10. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS GOVERNING DEMOLITION AND CONSTRUCTION OF THIS PROJECT.
11. IT SHALL BE UNDERSTOOD THAT THE ENGINEER'S DRAWINGS ARE PARTIALLY DIAGRAMMATIC AND THE MECHANICAL AND ELECTRICAL SUBCONTRACTORS SHALL WORK IN COOPERATION WITH THE GENERAL CONTRACTOR IN DETERMINING THE RUNNING OF PIPE LINES AND LOCATING EQUIPMENT. ANY NECESSARY VARIATIONS SHALL BE MADE TO CONFORM TO THE INTENT OF THE DIAGRAMMATIC DRAWINGS WITHOUT ADDITIONAL COSTS. WHERE THERE ARE INTERSECTIONS INVOLVING VARIOUS DUCTS, PIPING AND EQUIPMENT, PARTICULAR CONSIDERATION SHALL BE GIVEN TO CLEARANCES.
12. THE OWNER RESERVES THE RIGHT TO LET OTHER CONTRACTS AND TO INSTALL CERTAIN EQUIPMENT IN THE BUILDING AT ANY TIME DURING CONSTRUCTION. THIS RIGHT SHALL NOT INTERFERE IN ANY WAY WITH THE CONTINUITY OF BUILDING CONSTRUCTION OR COMPLETION. THE OWNER SHALL INFORM THE CONTRACTOR PRIOR TO ANY WORK AND/OR INSTALLATION OF EQUIPMENT.
13. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH ALL GUARANTEES, WARRANTIES, OPERATION AND MAINTENANCE INSTRUCTIONS AND OTHER LITERATURE PROVIDED WITH ALL EQUIPMENT USED IN THE PROJECT.

PAINTING

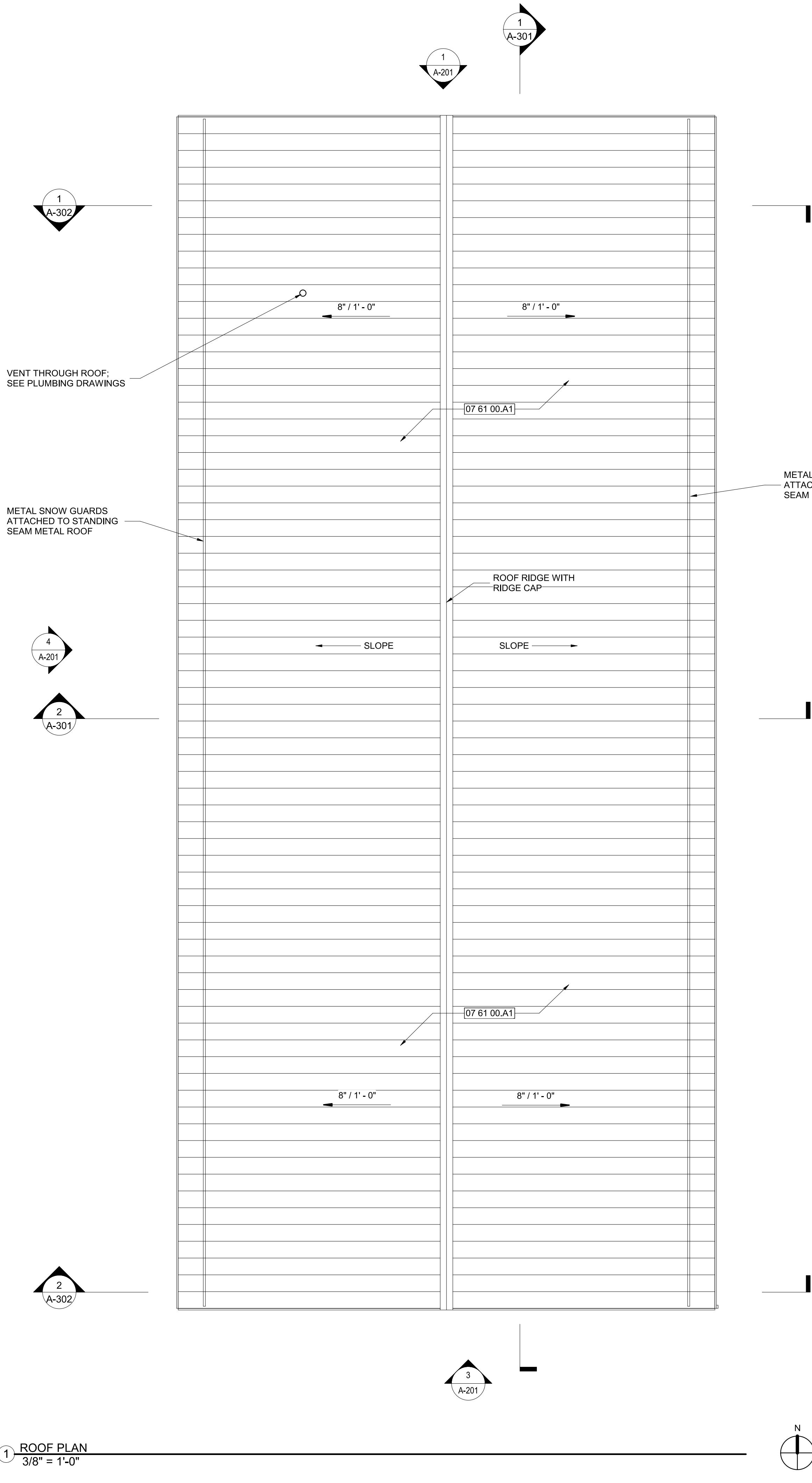
1. PAINT ALL NEWLY CREATED SURFACES (WALLS, DOORS, WINDOWS, TRIM, ETC.).
2. ALL SURFACES TO BE PREPARED FOR NEW PAINT, INCLUDING SANDING AND PATCHING OF ALL CRACKS, HOLES, ETC.
3. APPLY 2 COATS + PRIMER OF LATEX PAINT ON ALL WALLS.
4. APPLY 2 COATS OF SEMI-GLOSS LATEX PAINT ON ALL DOOR FRAMES AND INTERIOR TRIM - ALL BARE MATERIAL TO BE PRIMED.
5. PROVIDE ALL NECESSARY PROTECTION TO ENSURE THAT NO SURROUNDING MATERIALS ARE DAMAGED BY PAINT. (I.E. LIGHT FIXTURES, FURNITURE, FLOORING, ETC.).

PROJECT NO: 20120
DRAWN BY: NFL/KCG
CHECKED BY: RDT

FIRST FLOOR
PLAN

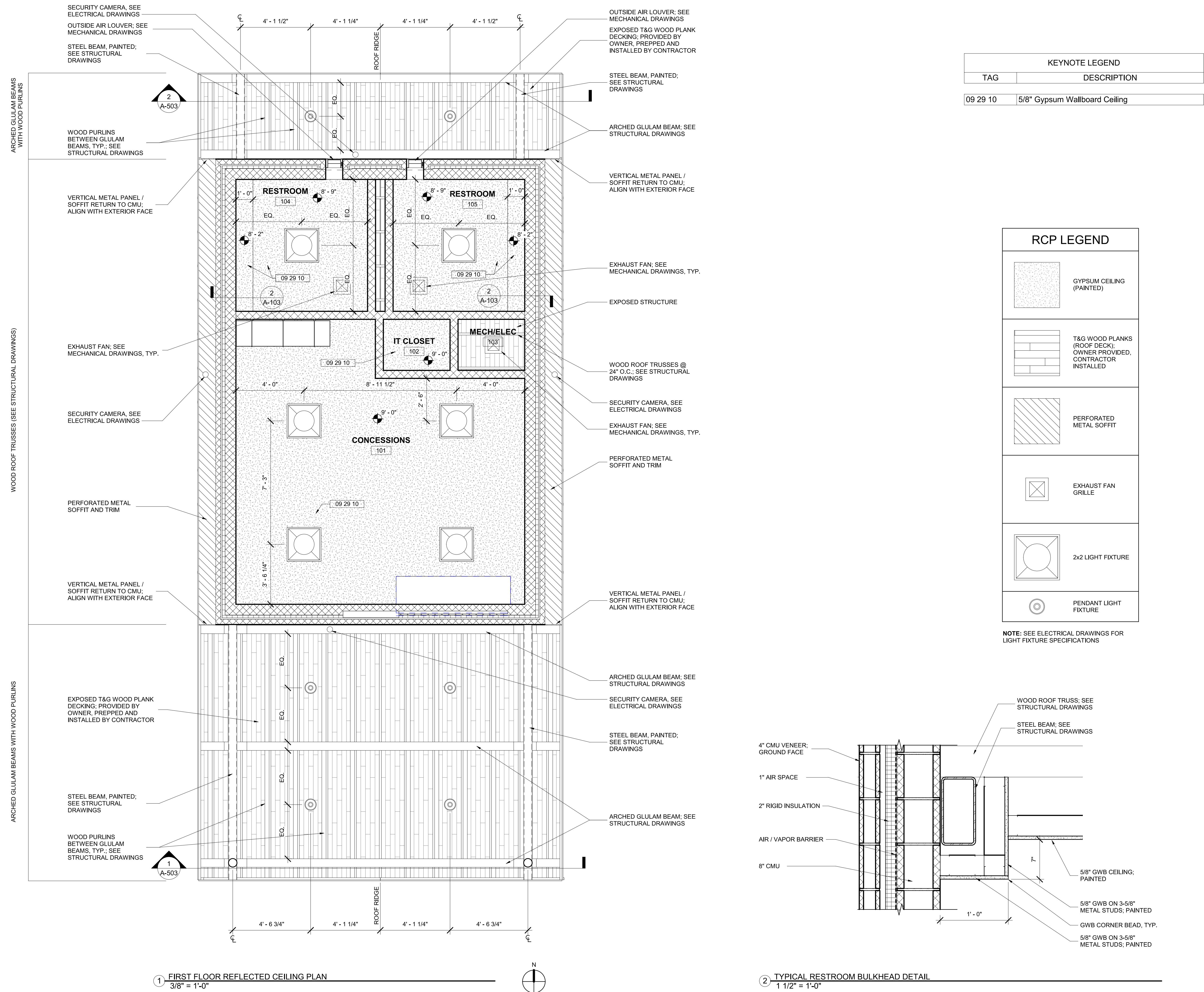
SHEET
A-101

228 West Market Street, York, Pennsylvania 17401
717-845-2449 fax



KEYNOTE LEGEND	
TAG	DESCRIPTION
07 61 00.A1	Standing Seam Metal Roof

MURPHY & DITTENHAFER ARCHITECTS 228 West Market Street, York, Pennsylvania 17401 412-625-4623 voice 412-625-4674 fax 717-843-8627 voice 717-843-2449 fax	BALTIMORE CITY RECREATION & PARKS					
	MORRELL PARK FIELD HOUSE					
2415 TOLLEY ST., BALTIMORE, MD 21230						
PROJECT NO: 20120 DRAWN BY: NFL/KCG CHECKED BY: RDT						
ROOF PLAN						
SHEET A-102						



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226 West Market Street, York, Pennsylvania 17401
717-848-8627 voice 717-843-2449 fax

Mark	Date	Description
1	8/31/2021	50% CONSTRUCTION DOCUMENTS
2	12/3/2021	100% CONSTRUCTION DOCUMENTS
3	8/8/2025	BID SET

PROJECT NO:	2012
DRAWN BY:	NFL/KCC
CHECKED BY:	RD

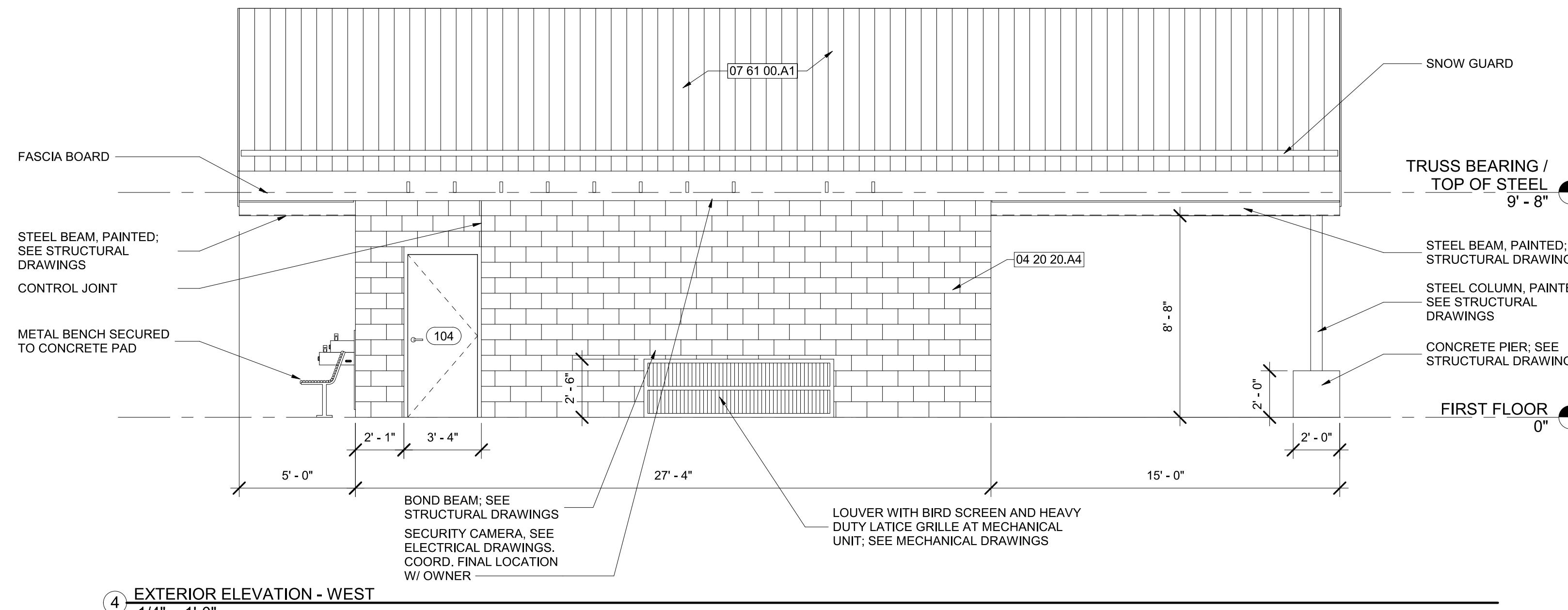
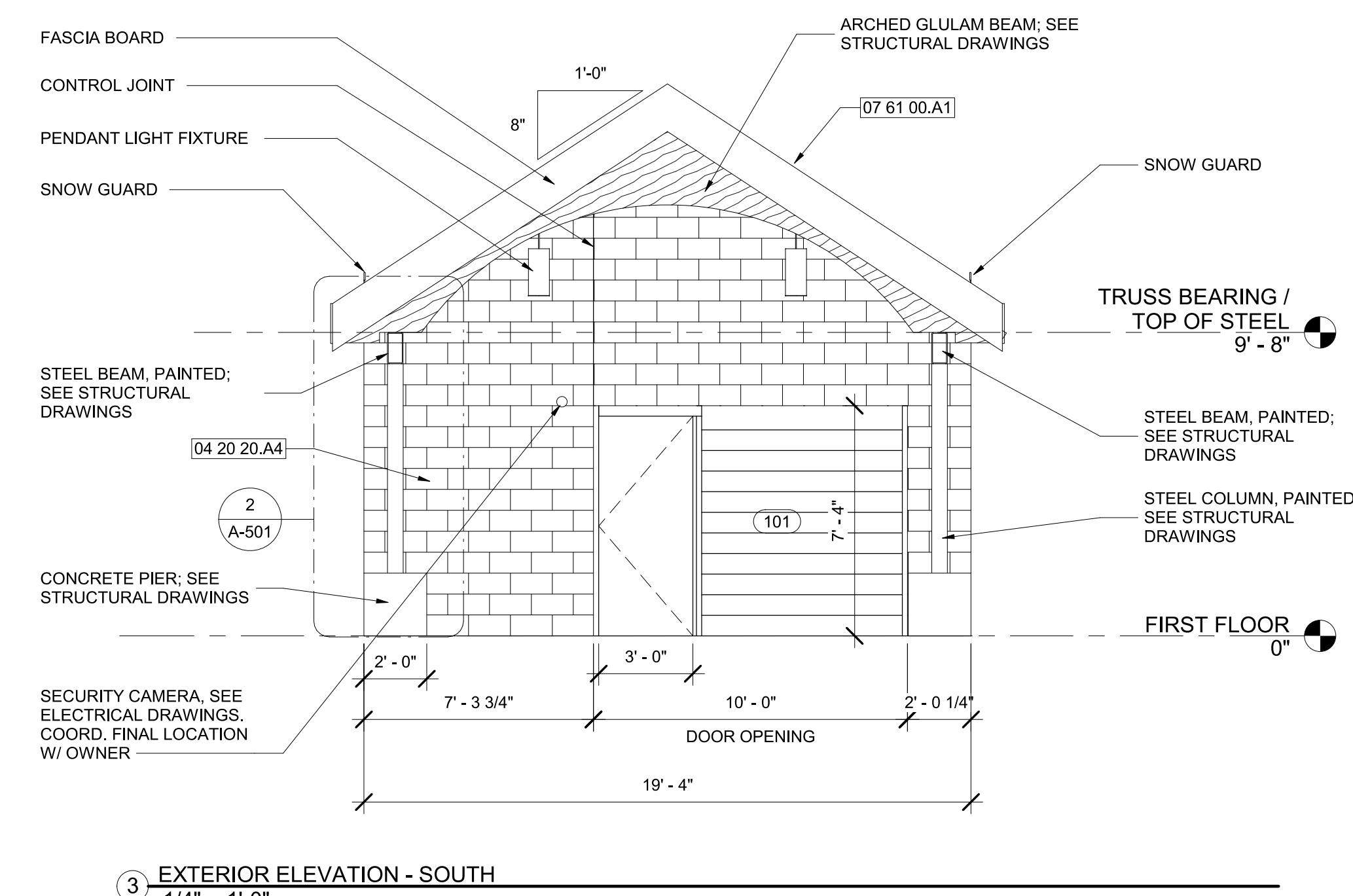
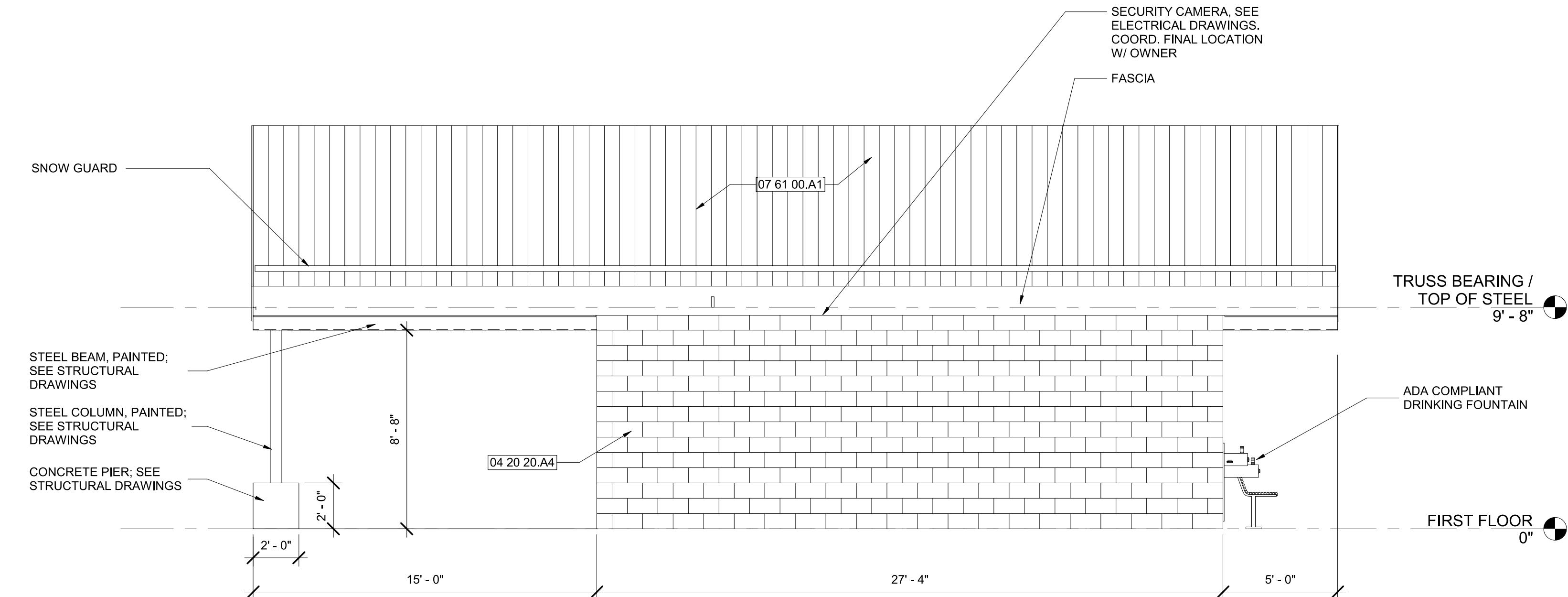
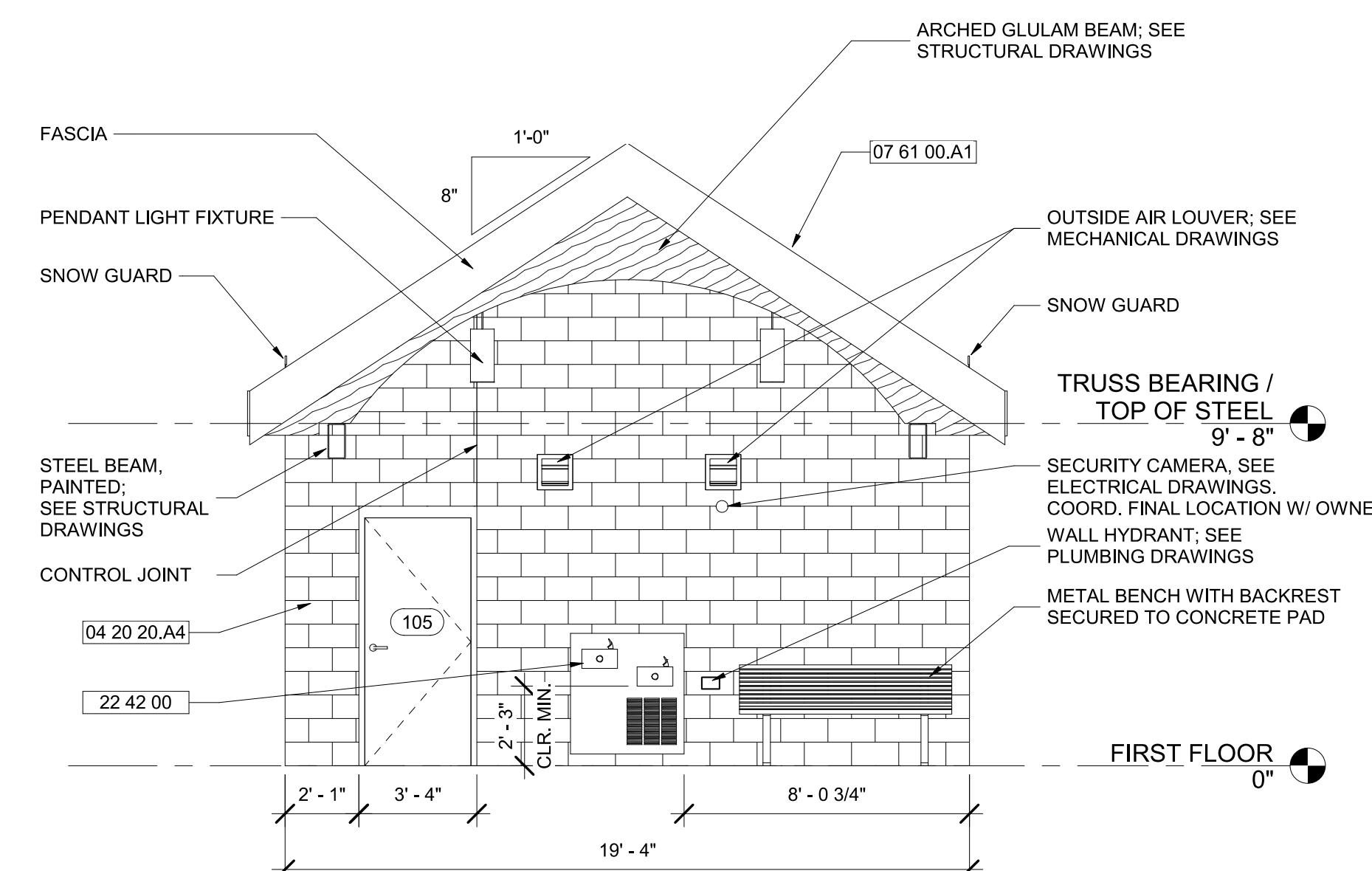
FIRST FLOOR REFLECTED CEILING PLAN

SHEET
A-103

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 2415 TOLLEY ST., BALTIMORE, MD 21230

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 800 North Charles Street, Baltimore, Maryland 21201
 410-625-4623 voice 410-625-4671 fax

228 West Market Street, York, Pennsylvania 17401
 717-845-8627 voice



KEYNOTE LEGEND	
TAG	DESCRIPTION
04 20 20.A4	CMU Cavity Wall System: 4" CMU Veneer Over 1" Air Cavity Over 2" Continuous Rigid Insulation and Fluid Applied Air/Vapor Barrier Over 8" Structural CMU
07 61 00.A1	Standing Seam Metal Roof
22 42 00	Water Cooler - See Plumbing Drawings

PROJECT NO: 20120
 DRAWN BY: NFL/KCG
 CHECKED BY: RDT

EXTERIOR ELEVATIONS

SHEET
 A-201

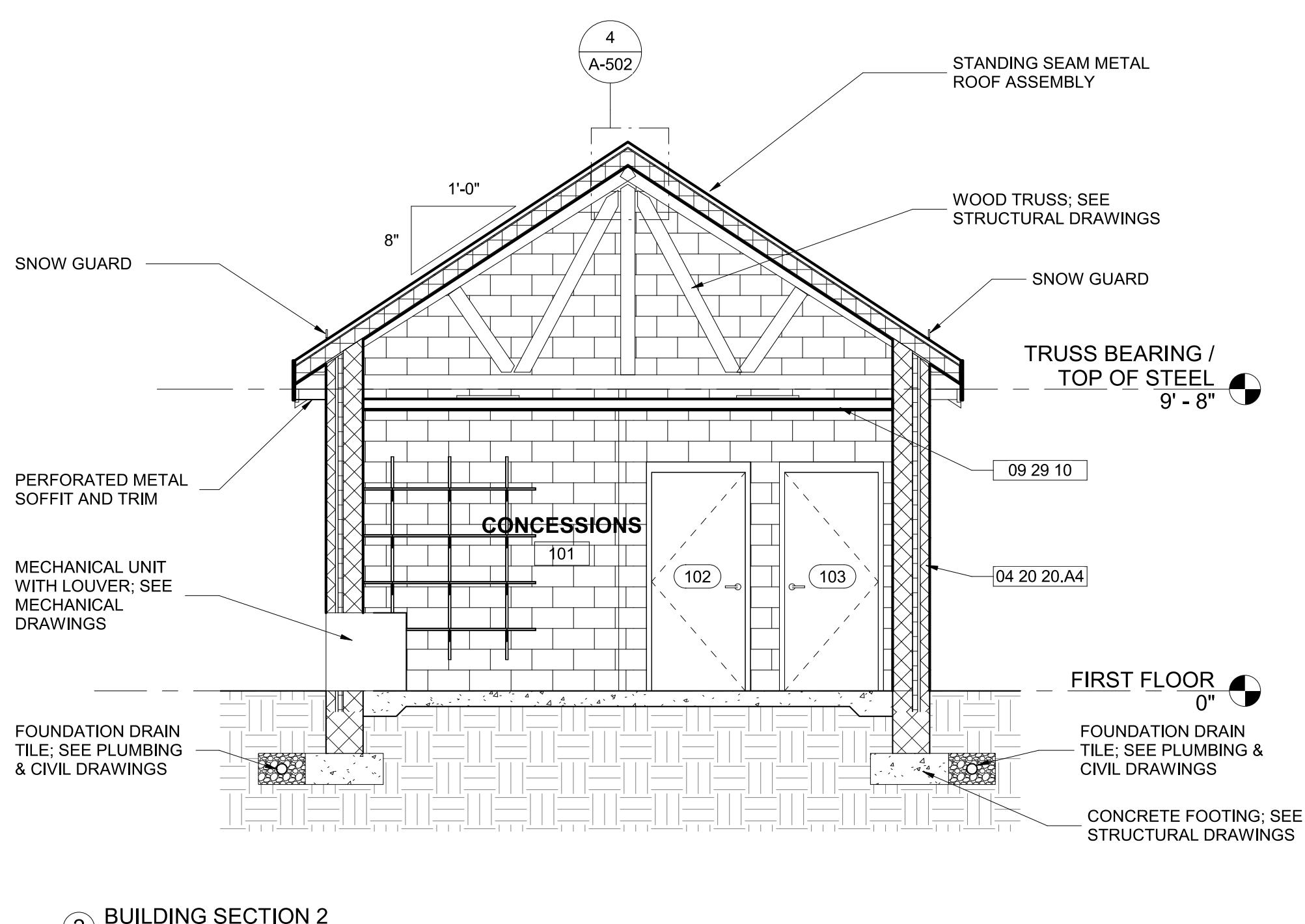
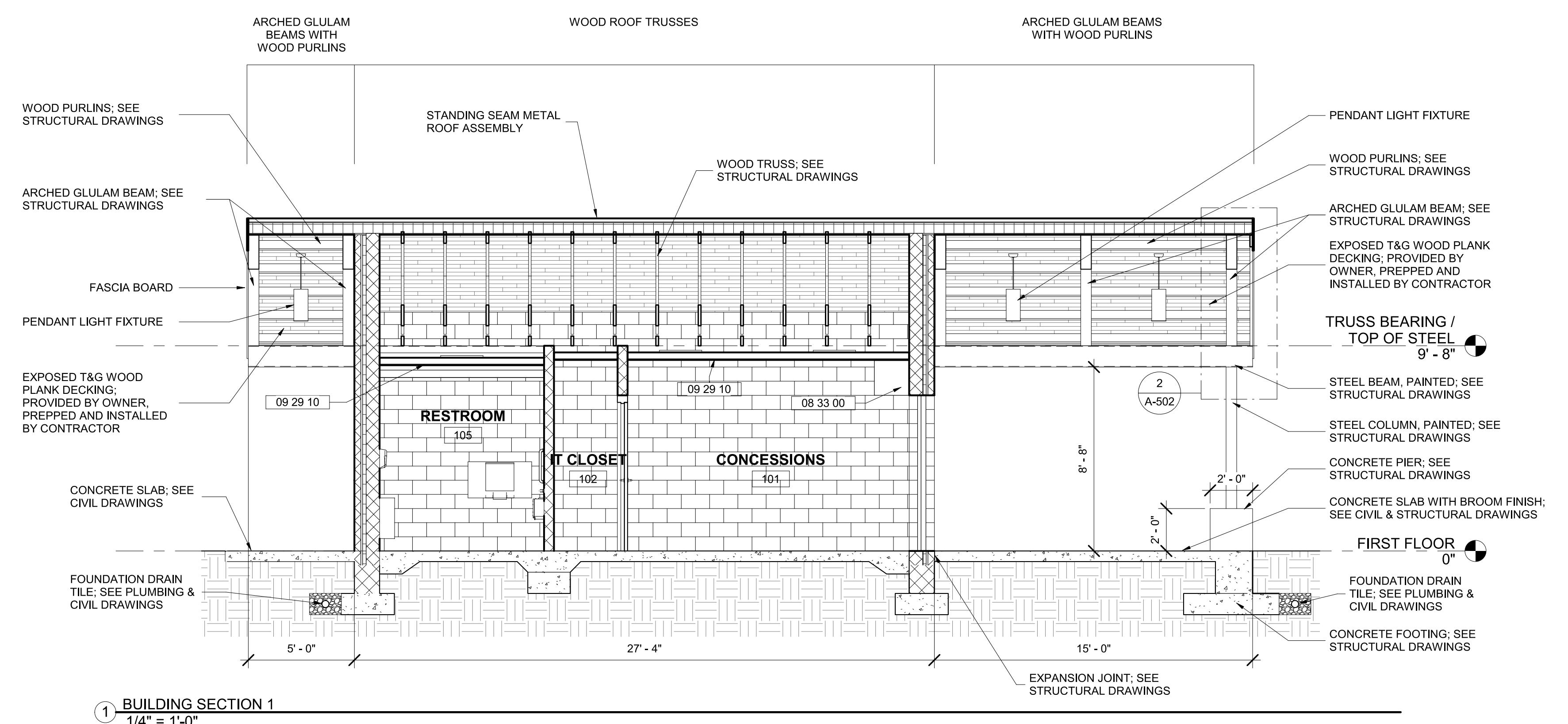
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Murphy & Dittenhofer
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800 North Charles Street, Baltimore, Maryland 21201
410-625-4623 voice 410-625-4671 fax

KEYNOTE LEGEND	
TAG	DESCRIPTION
04 20 20.A4	CMU Cavity Wall System: 4" CMU Veneer Over 1" Air Cavity Over 2" Continuous Rigid Insulation and Fluid Applied Air/Vapor Barrier Over 8" Structural CMU
08 33 00	Coiling Doors and Grilles
09 29 10	5/8" Gypsum Wallboard Ceiling



Mark	Date	Description
1	8/3/2021	50% CONSTRUCTION DOCUMENTS
2	12/3/2021	100% CONSTRUCTION DOCUMENTS
3	8/8/2025	BID SET

PROJECT NO: 20120
DRAWN BY: NFL/KCG
CHECKED BY: RDT
BUILDING SECTIONS
SHEET
A-301

BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
 2415 TOLLEY ST., BALTIMORE, MD 21230

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 800 North Charles Street, Baltimore, Maryland 21201
 410-625-4623 voice 410-625-4674 fax
 228 West Market Street, York, Pennsylvania 17401
 717-848-8627 voice

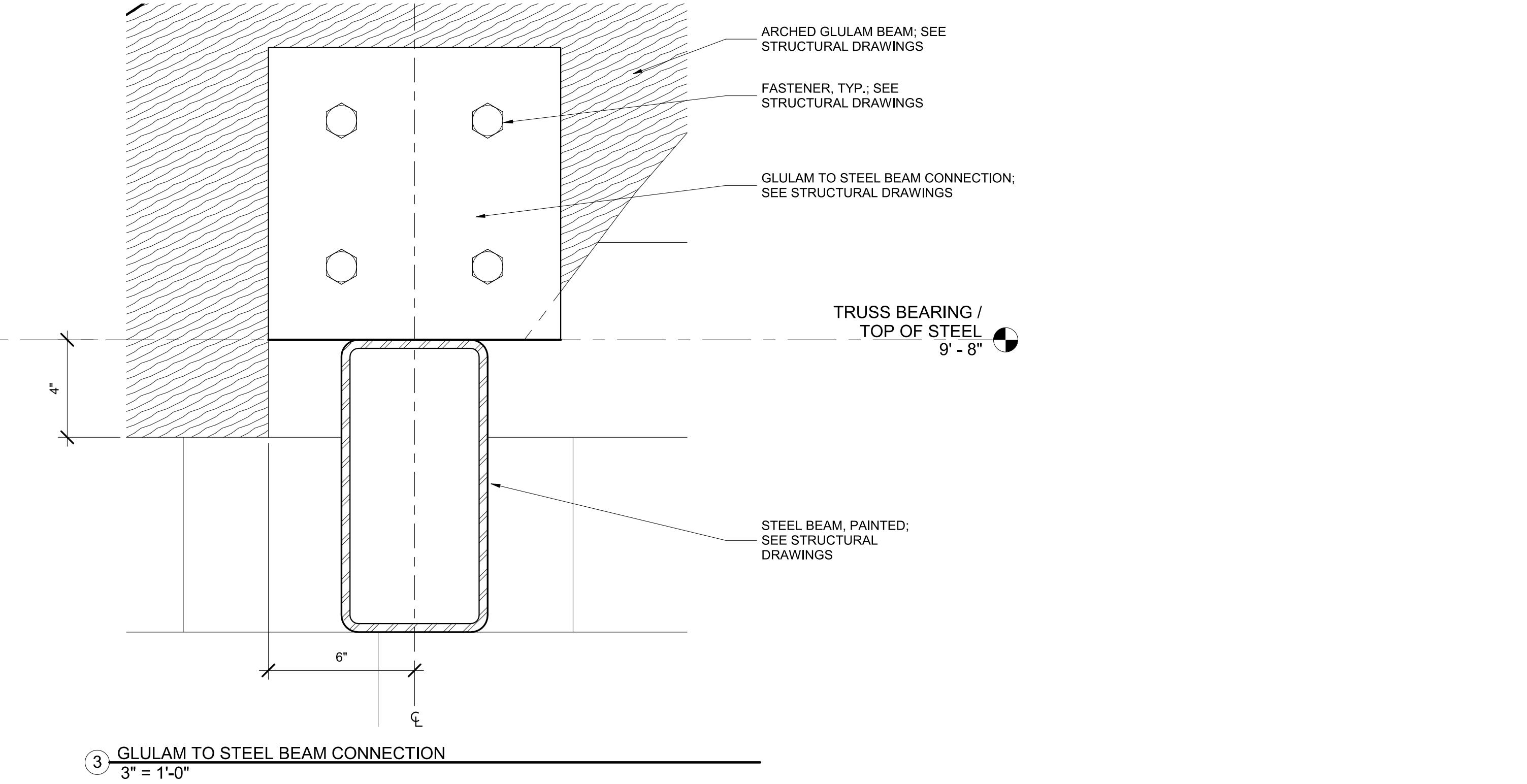
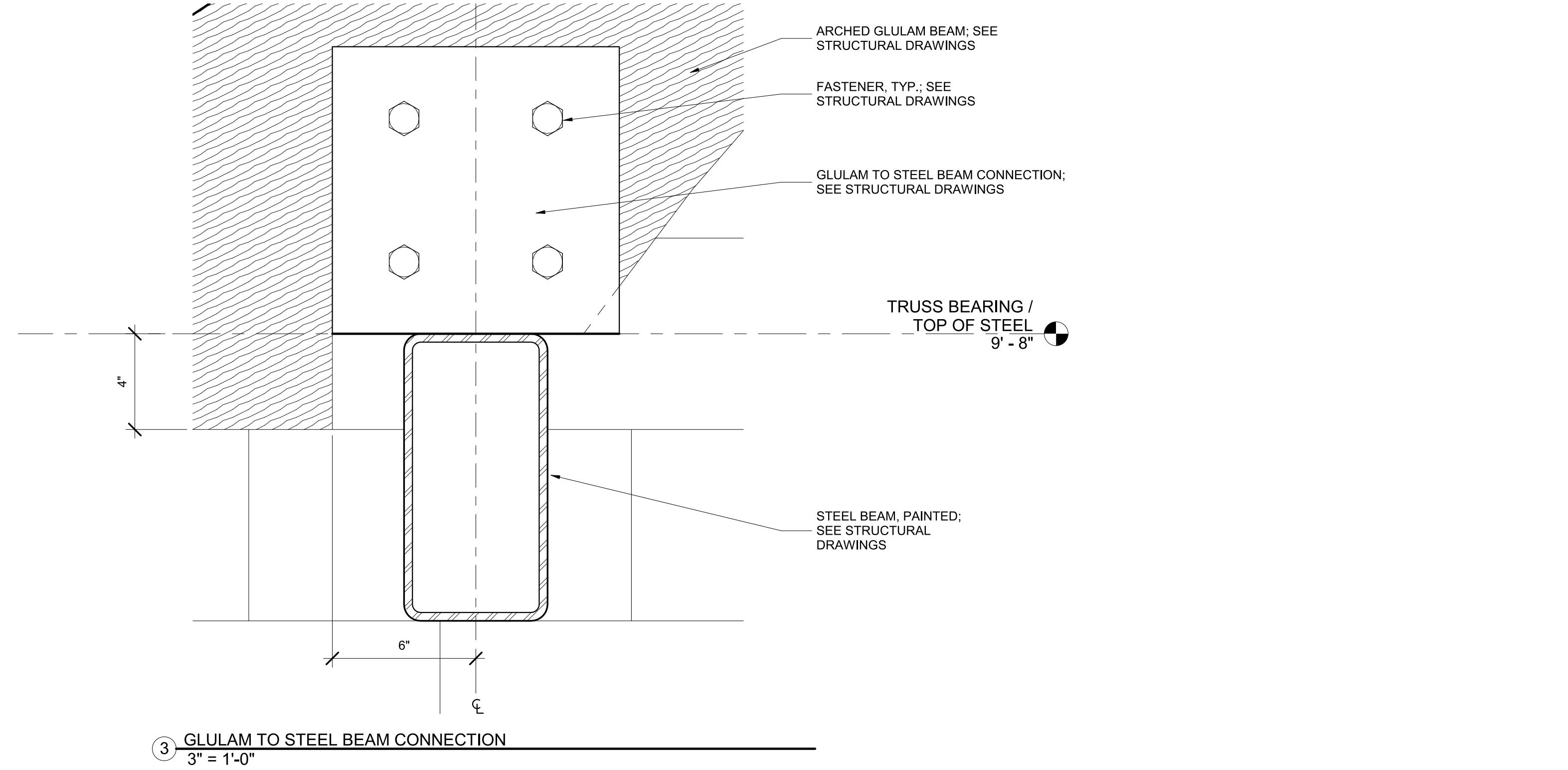
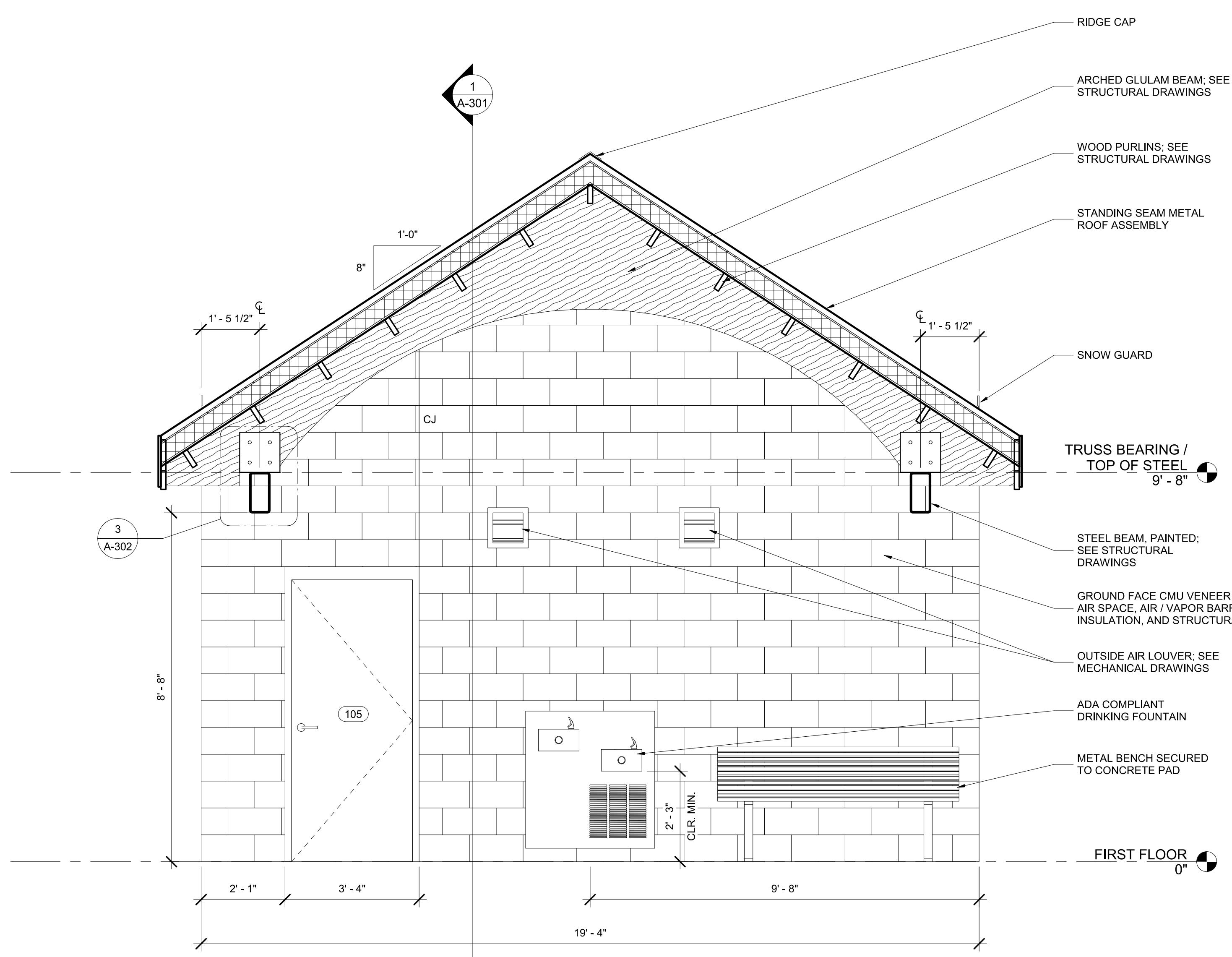
2415 TOLLEY ST., BALTIMORE, MD 21230

800 North Charles Street, Baltimore, Maryland 21201
 410-625-4623 voice 410-625-4674 fax

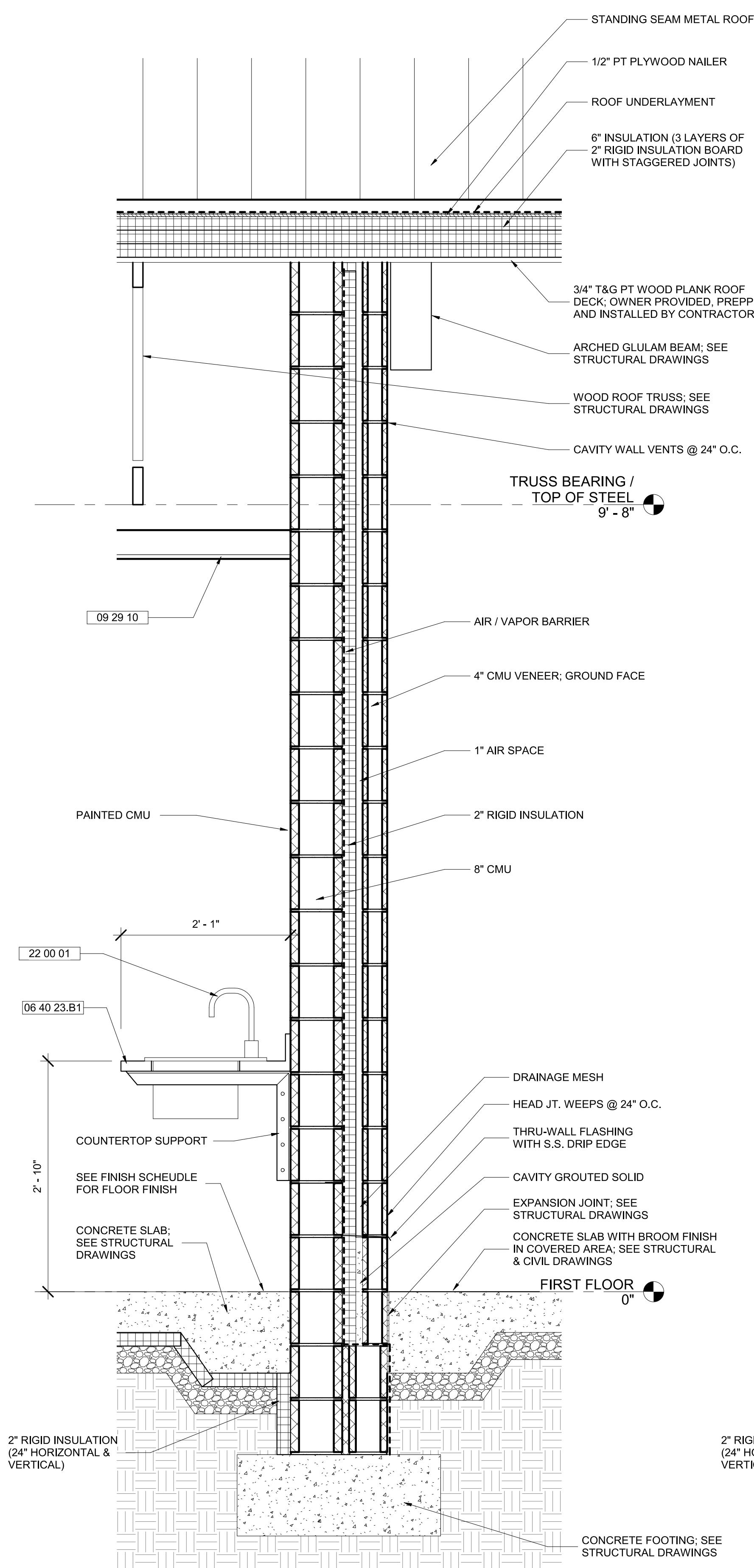
PROJECT NO: 20120
 DRAWN BY: KCG
 CHECKED BY: RDT

BUILDING
 SECTIONS

SHEET
 A-302



Mark	Date	Description
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2	12/3/2021	100% CONSTRUCTION DOCUMENTS
3	8/8/2025	BID SET



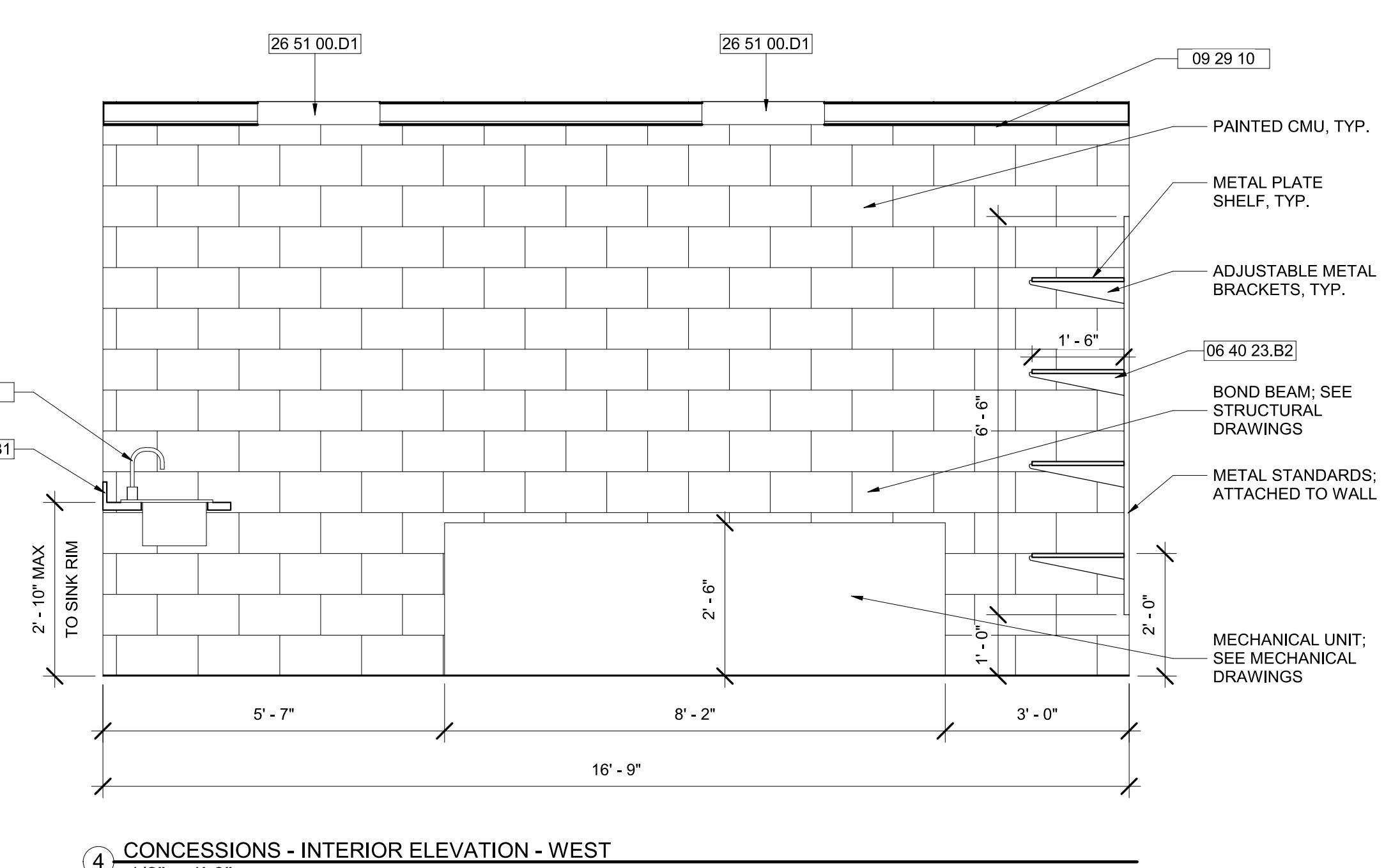
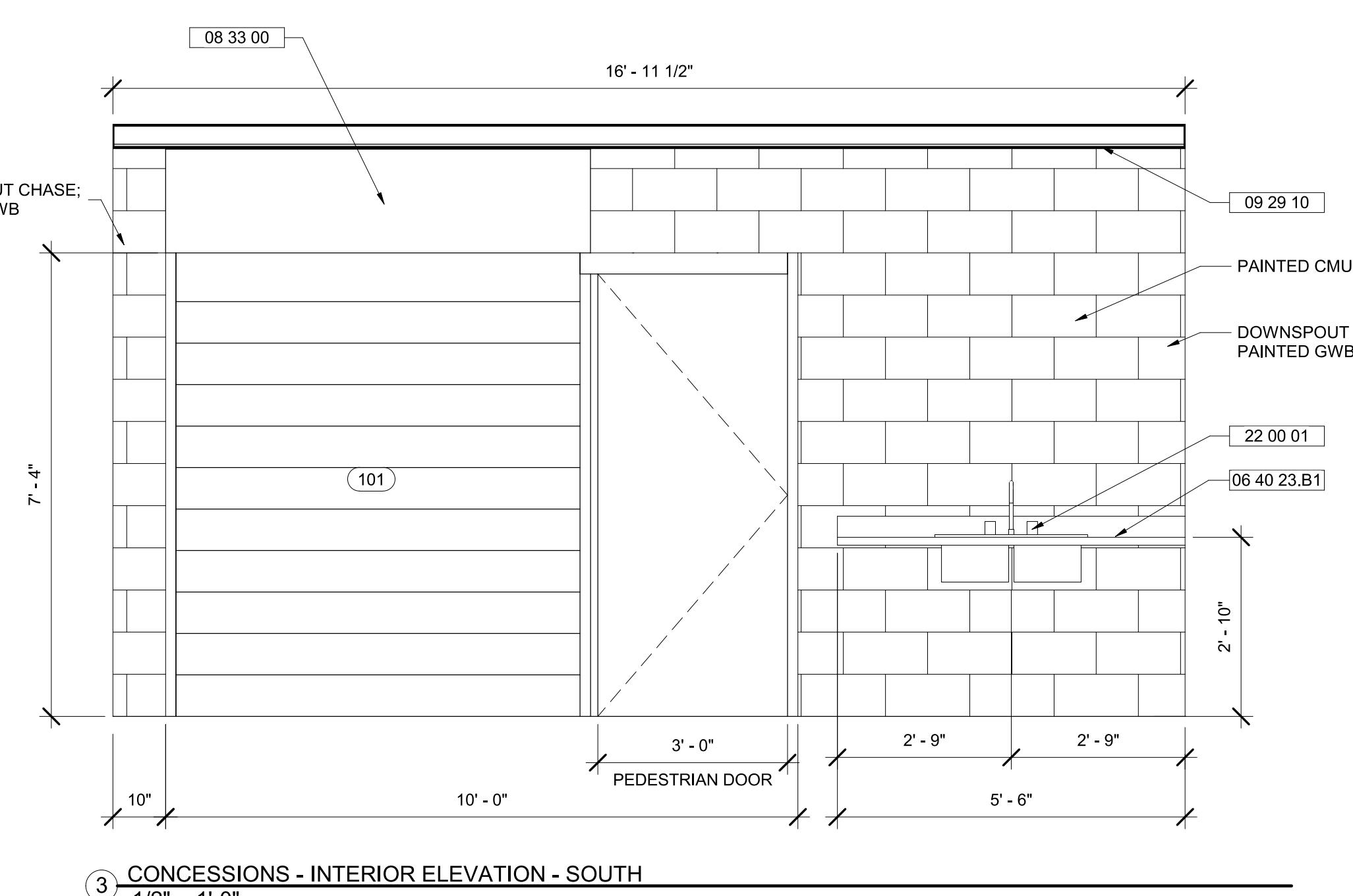
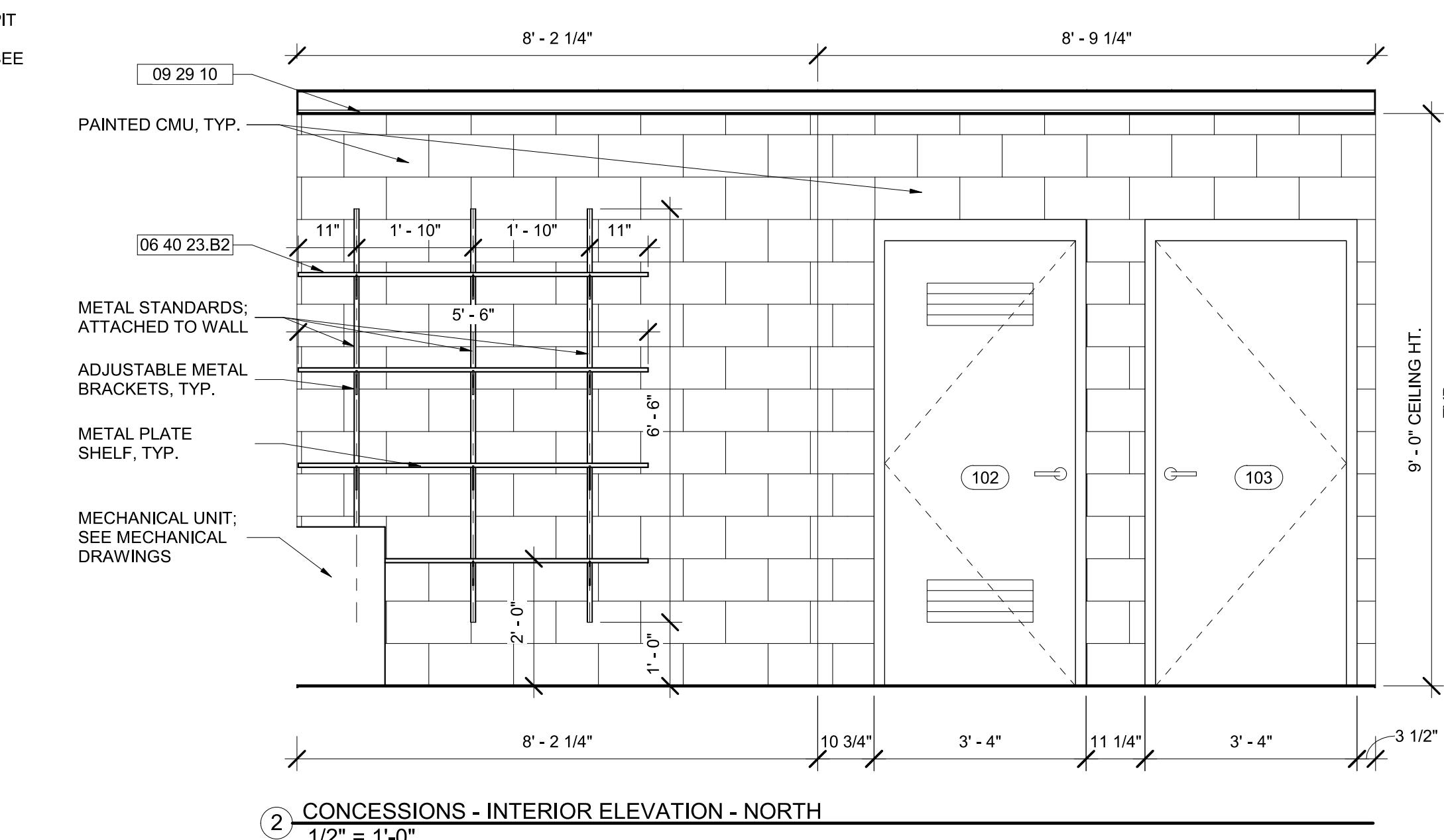
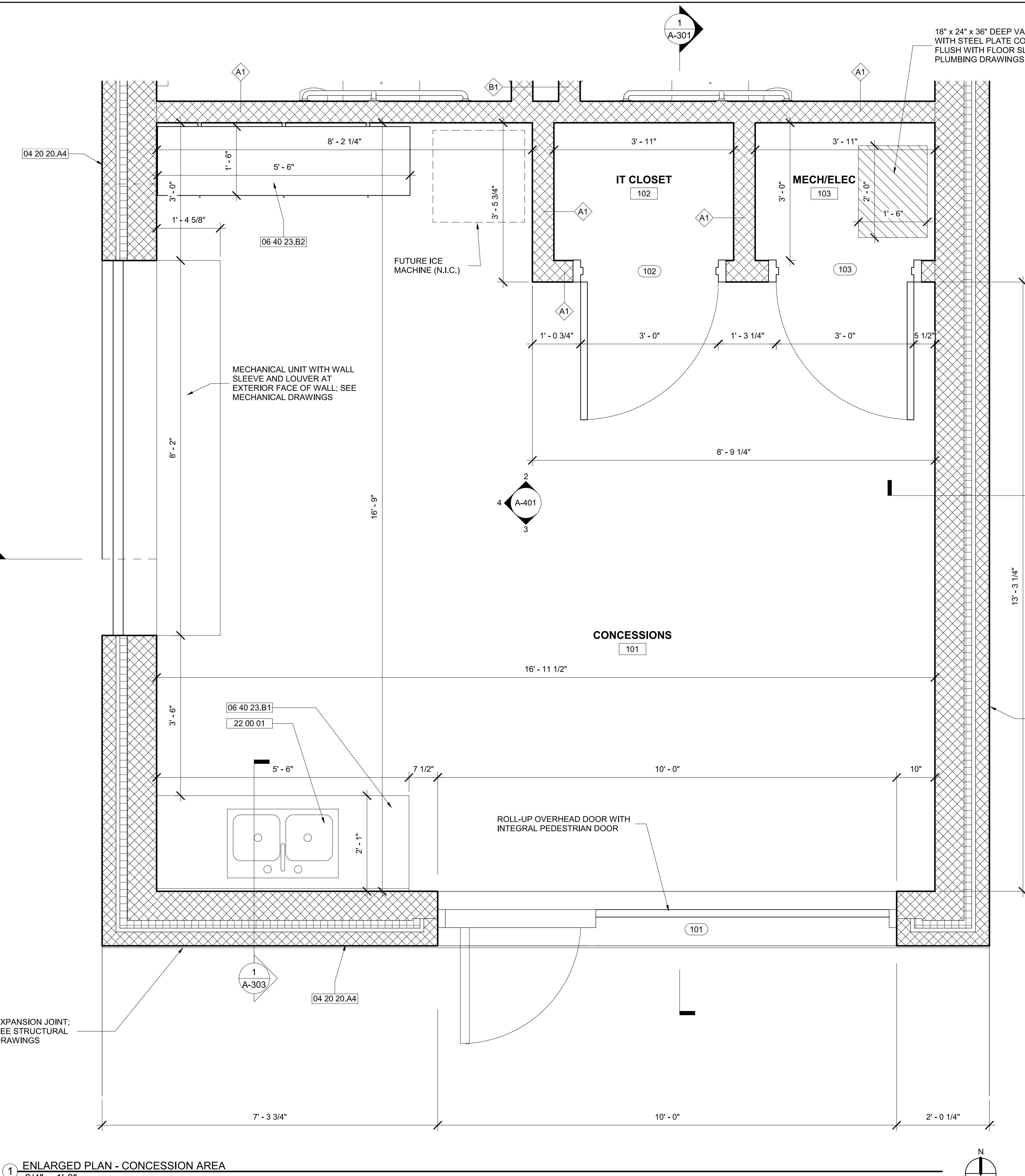
BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
 2415 TOLLEY ST., BALTIMORE, MD 21230

Murphy & Dittenhafer
A R C H I T E C T S
 800 North Charles Street, Baltimore, Maryland 21201
 410-625-4623 voice 410-625-4671 fax
 228 West Market Street, York, Pennsylvania 17401
 717-848-8627 voice

2415 Tolley Street, York, Pennsylvania 17401
 717-848-8627 voice

Mark	Date	Description
1	8/31/2021	50% CONSTRUCTION DOCUMENTS
2	12/31/2021	100% CONSTRUCTION DOCUMENTS
3	8/6/2025	BID SET

PROJECT NO:	20120
DRAWN BY:	NFL/KCG
CHECKED BY:	RDT
ENLARGED PLAN - CONCESSIONS	
SHEET	
A-401	



BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230

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717-845-8627 voice

228 West Market Street, York, Pennsylvania 17401
717-845-8627 voice

2415 TOLLEY ST., BALTIMORE, MD 21230

Mark	Date	Description
1	8/31/2021	50% CONSTRUCTION DOCUMENTS
2	12/31/2021	100% CONSTRUCTION DOCUMENTS
3	8/6/2025	BID SET

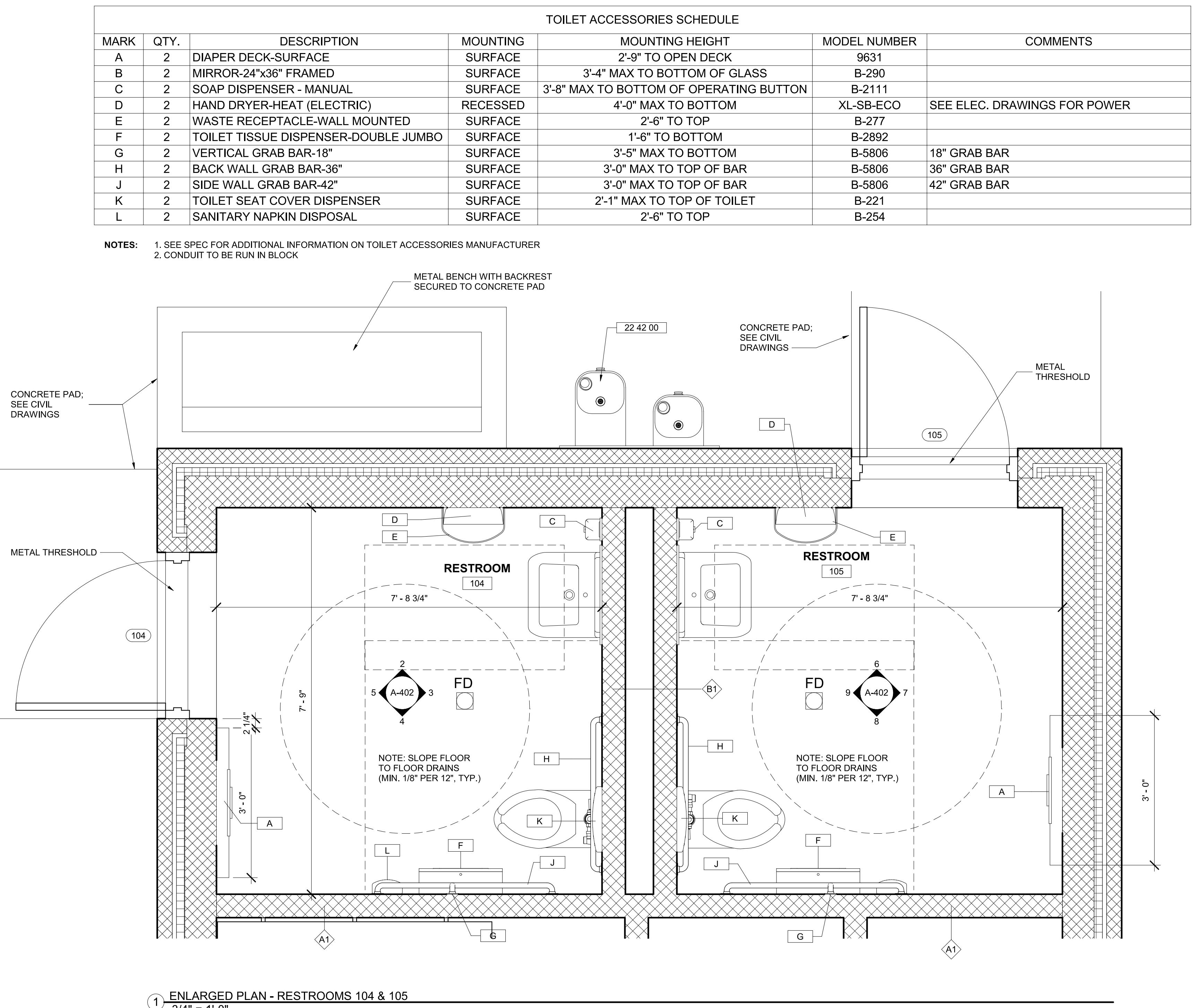
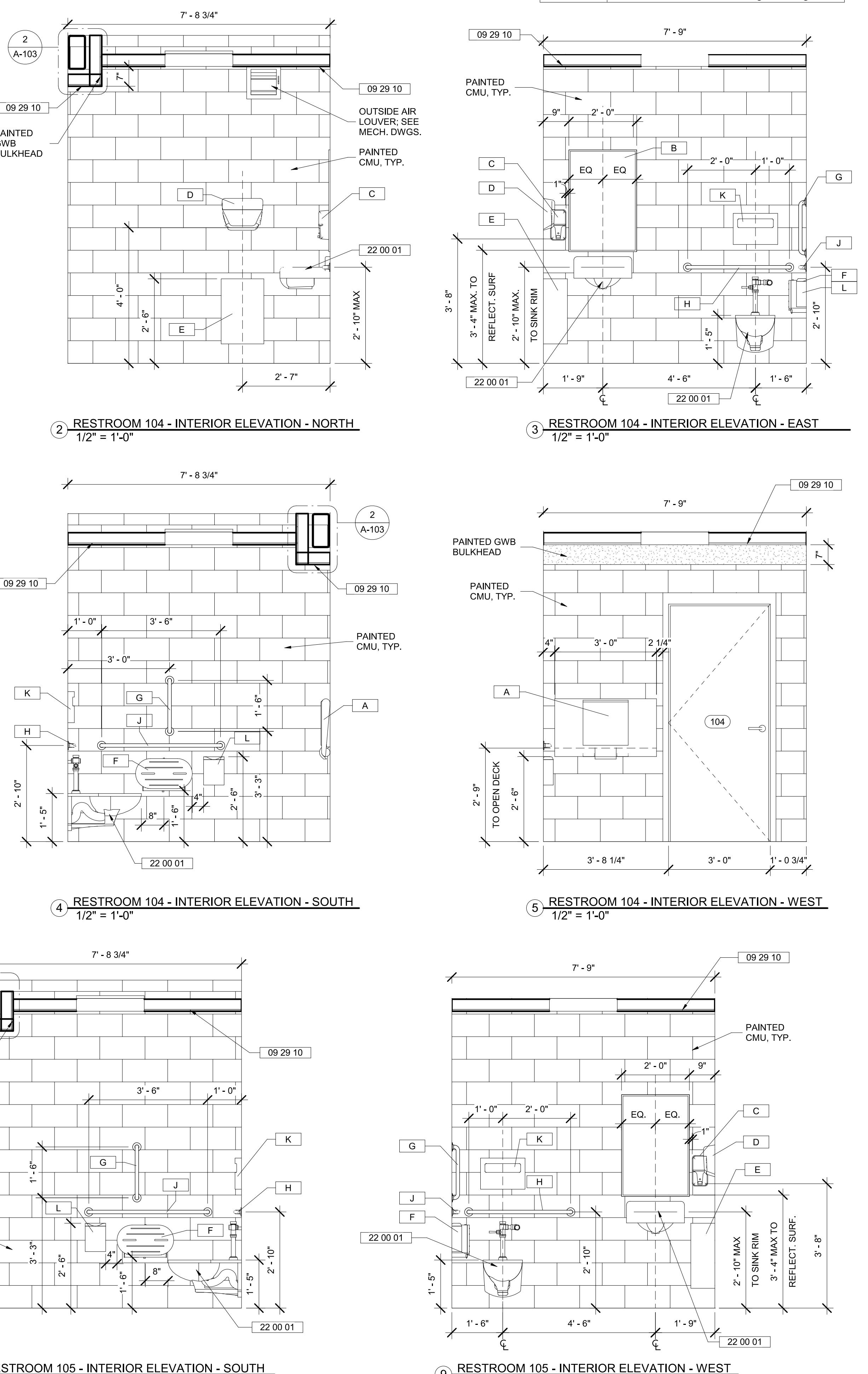
PROJECT NO: 20120
DRAWN BY: NFL/KCG
CHECKED BY: RDT

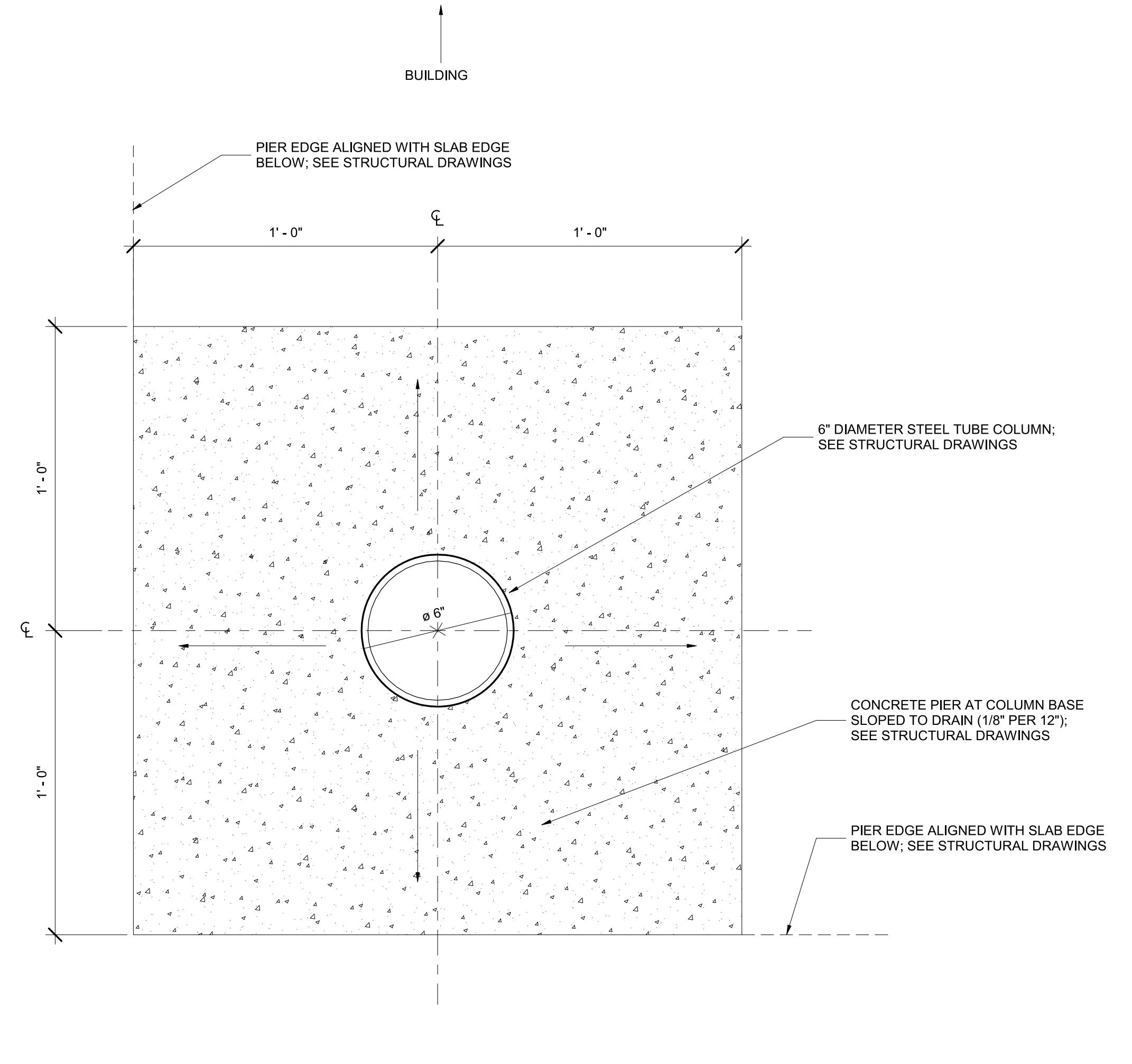
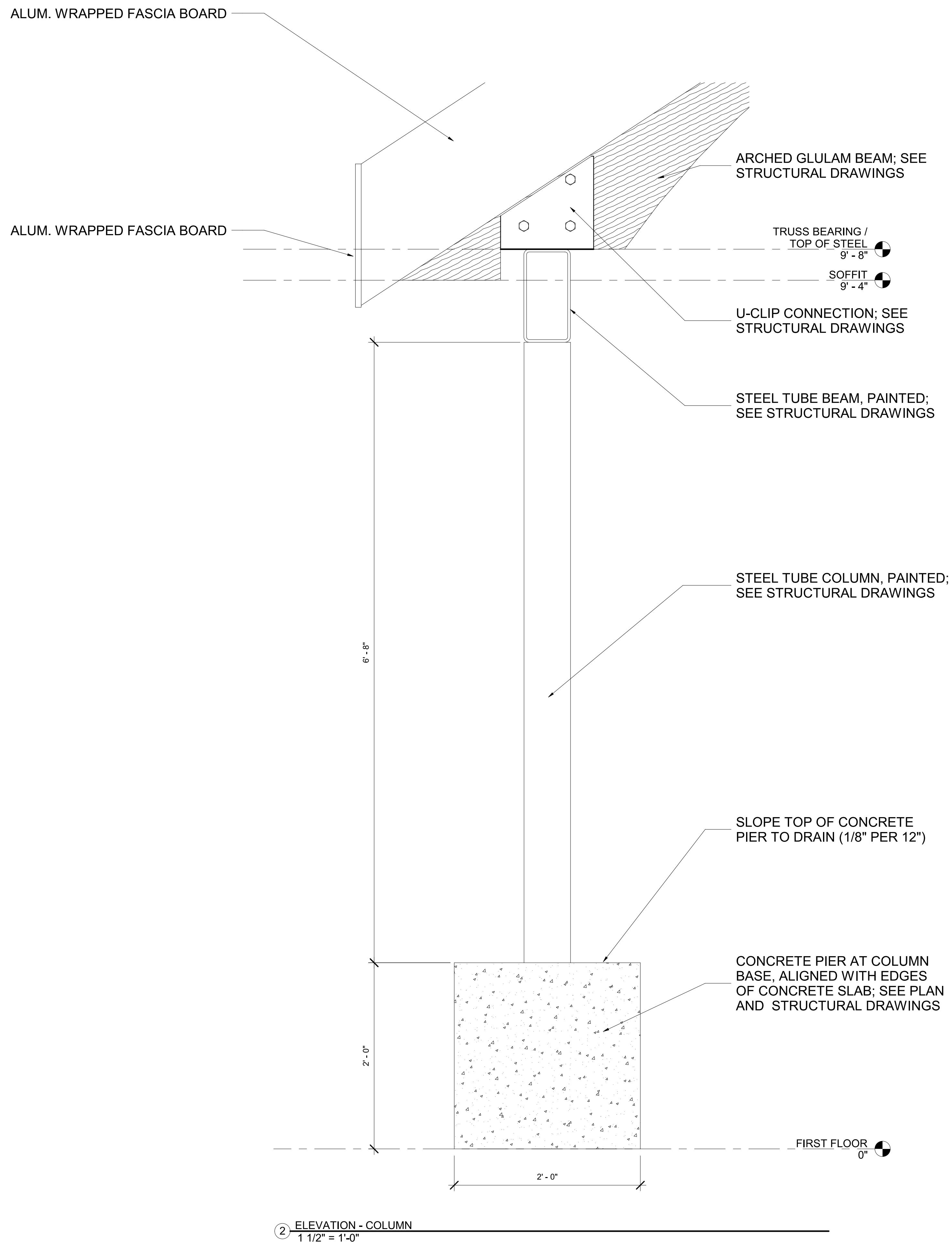
ENLARGED PLAN - RESTROOMS

SHEET
A-402

KEYNOTE LEGEND

Tag	Description
09 29 10	5/8" Gypsum Wallboard Ceiling
22 00 01	Plumbing Fixtures - See Plumbing Drawings
22 42 00	Water Cooler - See Plumbing Drawings





BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
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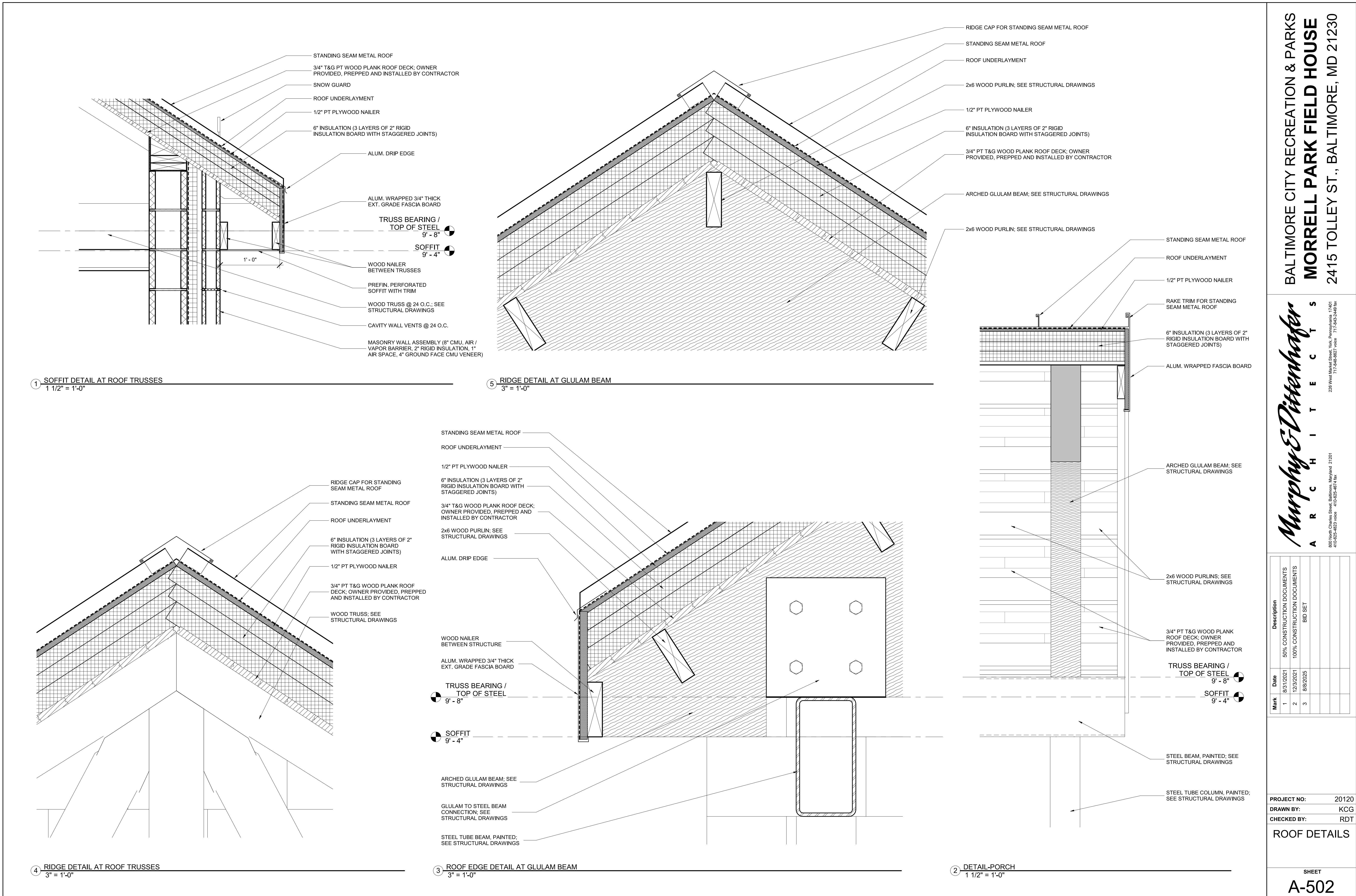
Murphy & Dittenhafer
ARCHITECTS

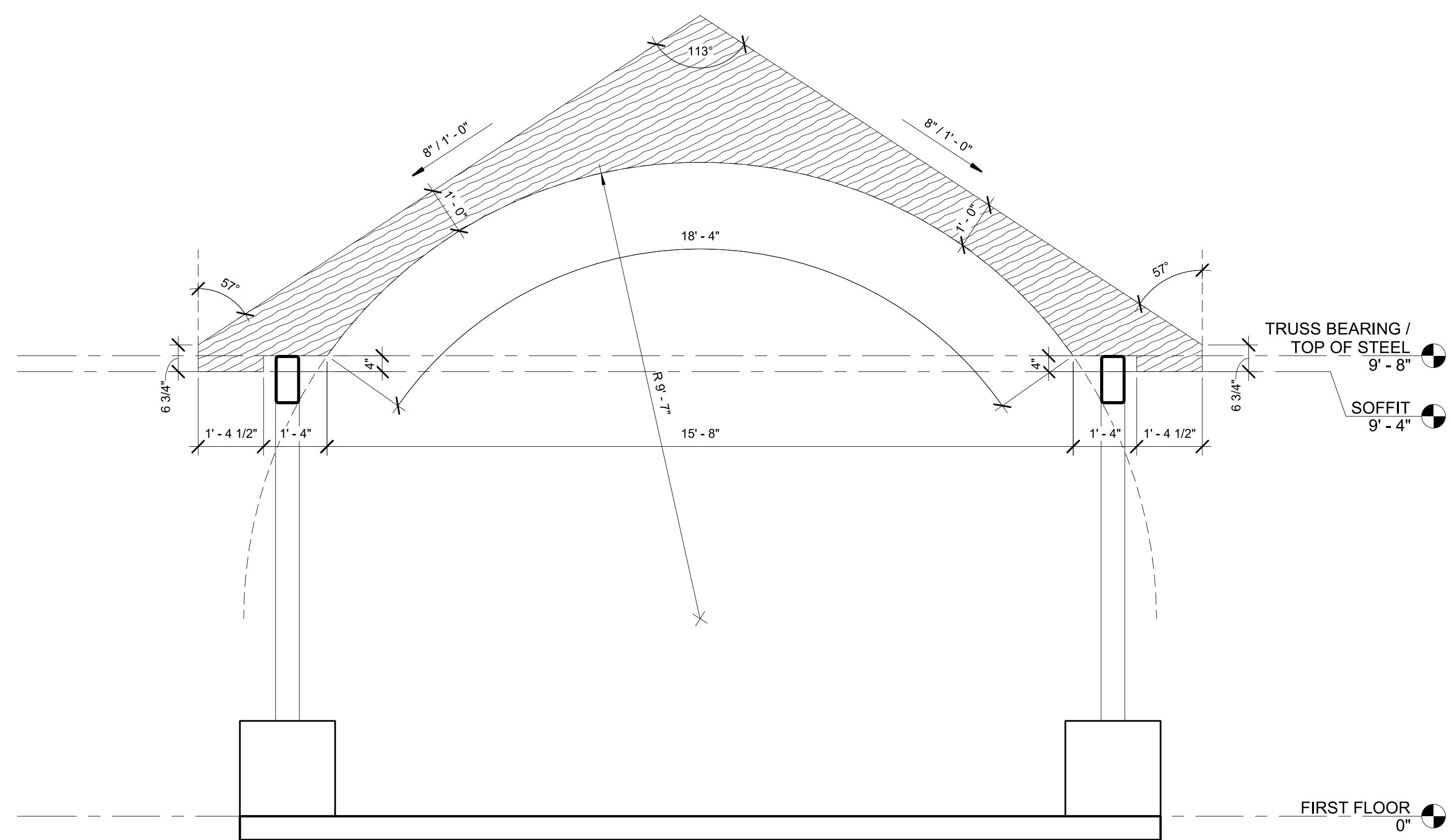
228 West Market Street, York, Pennsylvania 17401
717-848-8627 voice
717-848-2449 fax

Mark	Date	Description
1	8/3/2021	50% CONSTRUCTION DOCUMENTS
2	12/3/2021	100% CONSTRUCTION DOCUMENTS
3	8/8/2025	BID SET

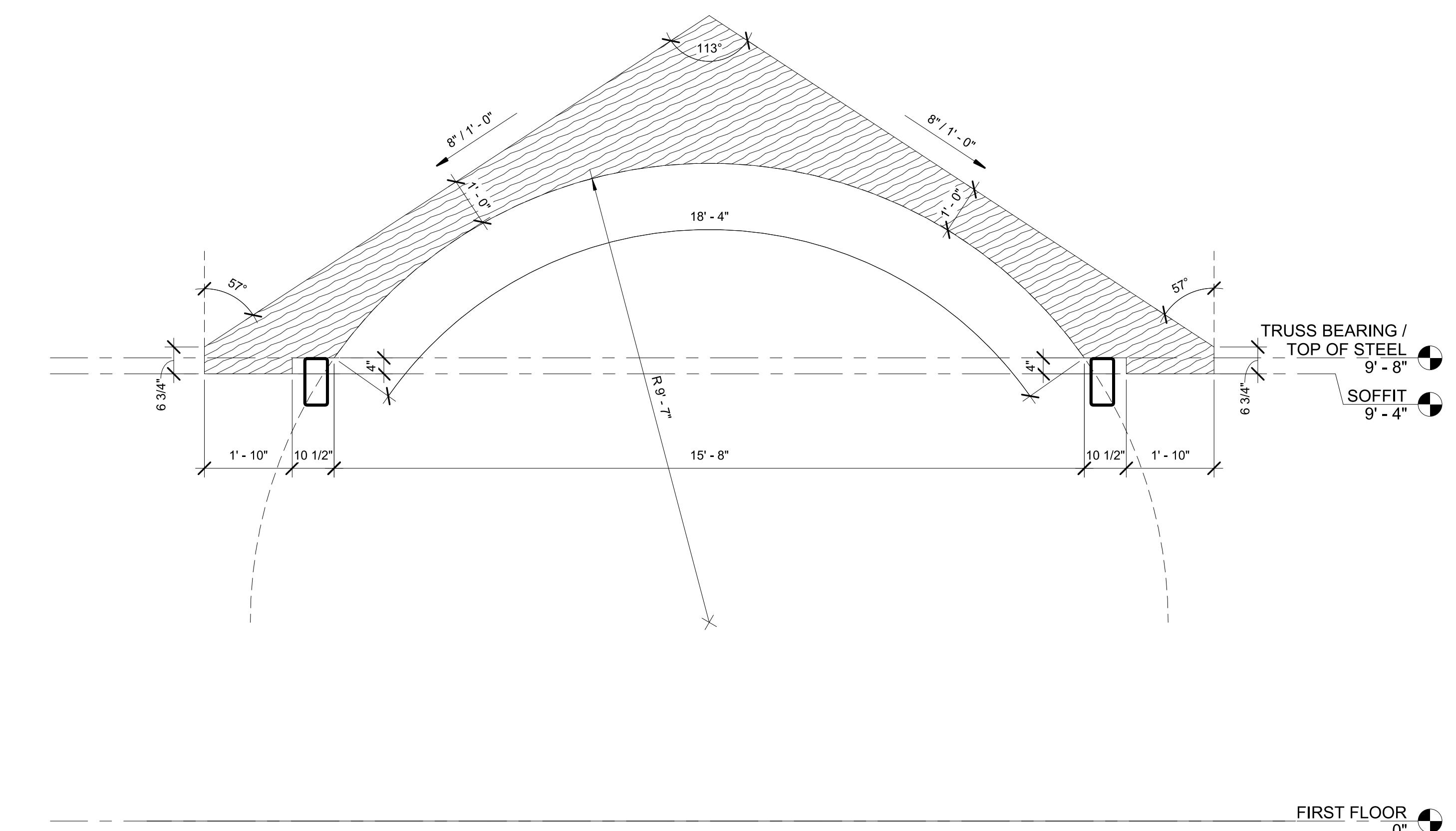
PROJECT NO:	20120
DRAWN BY:	KCG
CHECKED BY:	RDT
COLUMN PIER DETAILS	
SHEET	

PROJECT NO: 20120
DRAWN BY: KCG
CHECKED BY: RDT
COLUMN PIER DETAILS
SHEET
A-501





① GLULAM PROFILE AT COLUMNS
1/2" = 1'-0"



② GLULAM PROFILE AT CANTILEVER
1/2" = 1'-0"

Murphy & Dittenhafer
ARCHITECTS

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MORRELL PARK FIELD HOUSE

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717-843-8627 voice

228 West Market Street, York, Pennsylvania 17401
717-843-2449 fax

Mark	Date	Description
1	8/3/2021	50% CONSTRUCTION DOCUMENTS
2	12/3/2021	100% CONSTRUCTION DOCUMENTS
3	8/8/2025	BID SET

PROJECT NO: 20120
DRAWN BY: KCG
CHECKED BY: RDT
GLULAM PROFILES
SHEET
A-503

BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230

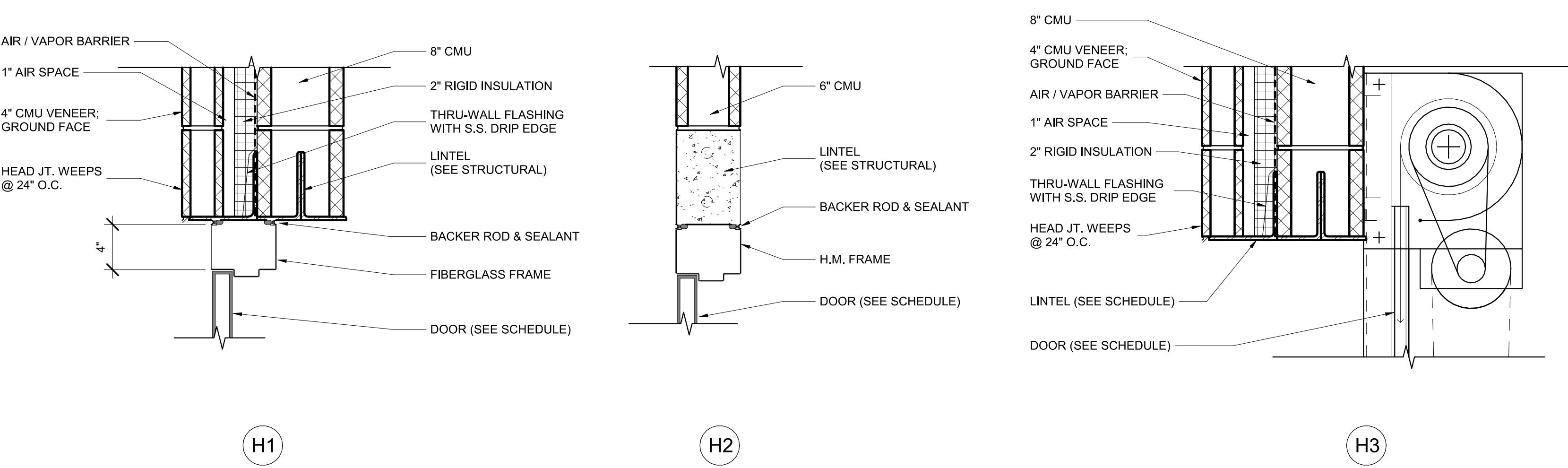
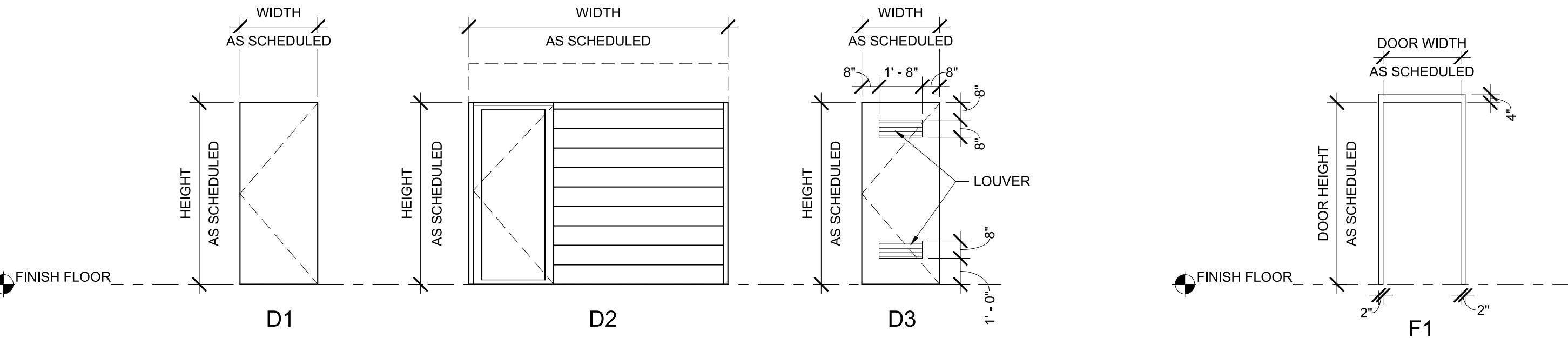
Murphy & Dittenhafer
ARCHITECTS
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410-525-4623 voice 410-525-4671 fax

228 West Market Street, York, Pennsylvania 17401
717-845-8627 voice

PROJECT NO: 20120
DRAWN BY: NFL/KCG
CHECKED BY: RDT
DOOR SCHEDULE AND DETAILS

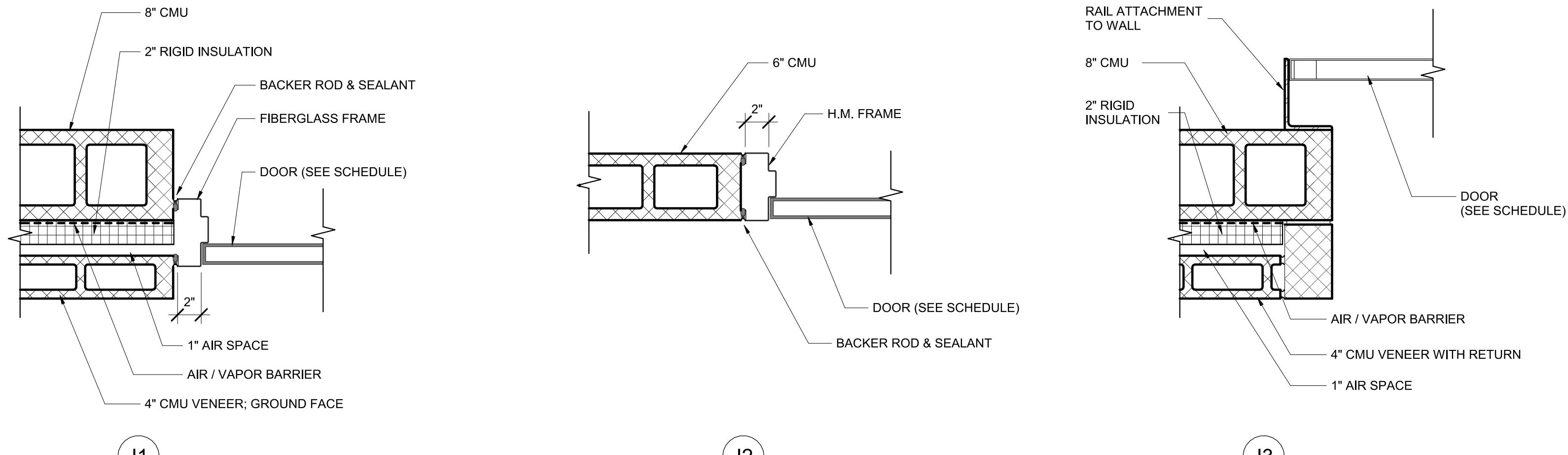
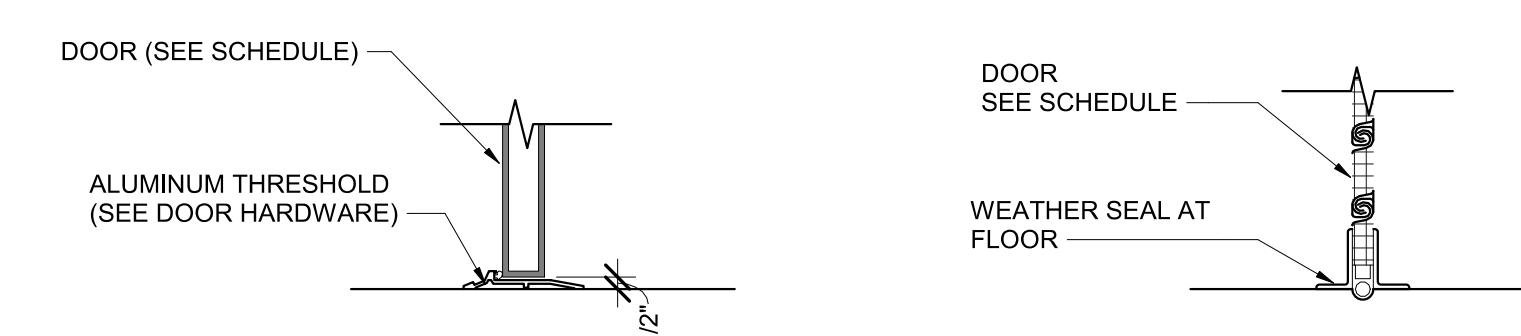
SHEET
A-601

MARK	Width	Height	Thickness	DOOR		FRAME		CONSTRUCTION DETAILS			HARDWARE SET	FIRE RATING	COMMENTS
				TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	SILL			
101	10'-0"	7'-4"	2"	D2	ALUM	-	ALUM	H3	J3	S2	5	-	OVERHEAD DOOR WITH INTEGRATED MAN DOOR
102	3'-0"	7'-0"	1 3/4"	D3	HM	F1	HM	H2	J2	S3	2	-	LOUVER AT TOP AND BOTTOM OF DOOR
103	3'-0"	7'-0"	1 3/4"	D1	HM	F1	HM	H2	J2	S3	1	-	
104	3'-0"	7'-0"	1 3/4"	D1	FIBERGLASS	F1	FIBERGLASS	H1	J1	S1	4	-	THERMALLY BROKEN HM FRAME
105	3'-0"	7'-0"	1 3/4"	D1	FIBERGLASS	F1	FIBERGLASS	H1	J1	S1	4	-	THERMALLY BROKEN HM FRAME

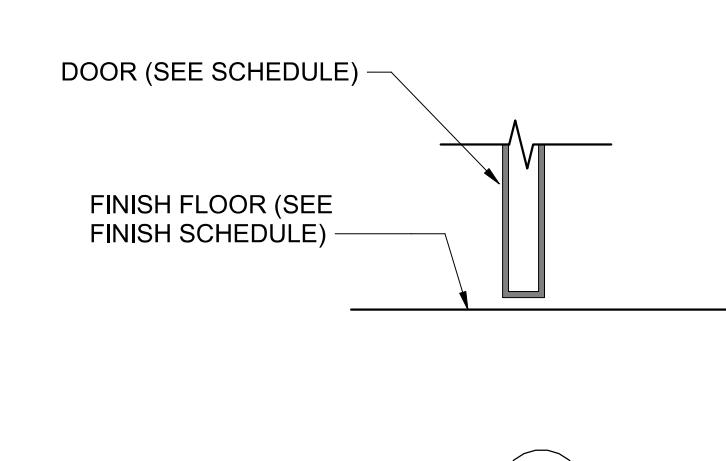


① DOOR HEAD DETAILS
1 1/2" = 1'-0"

④ LOUVER DETAILS
1 1/2" = 1'-0"



② DOOR JAMB DETAILS
1 1/2" = 1'-0"



③ DOOR SILL DETAILS
1 1/2" = 1'-0"

Mark	Date	Description
1	8/3/2021	50% CONSTRUCTION DOCUMENTS
2	12/3/2021	100% CONSTRUCTION DOCUMENTS
3	8/8/2025	BID SET

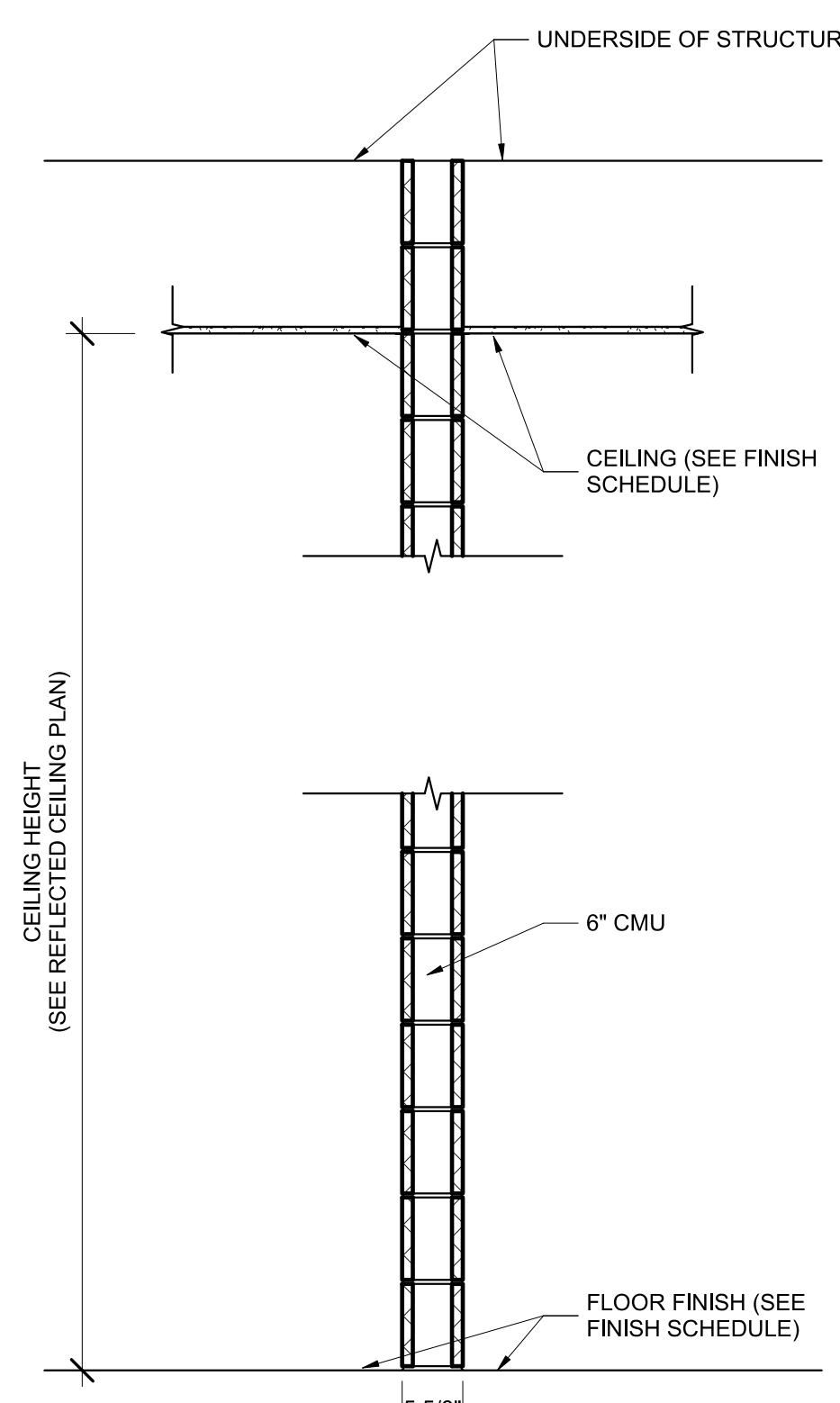
PROJECT NO: 20120
DRAWN BY: NFL/KCG
CHECKED BY: RDT

DOOR SCHEDULE AND DETAILS

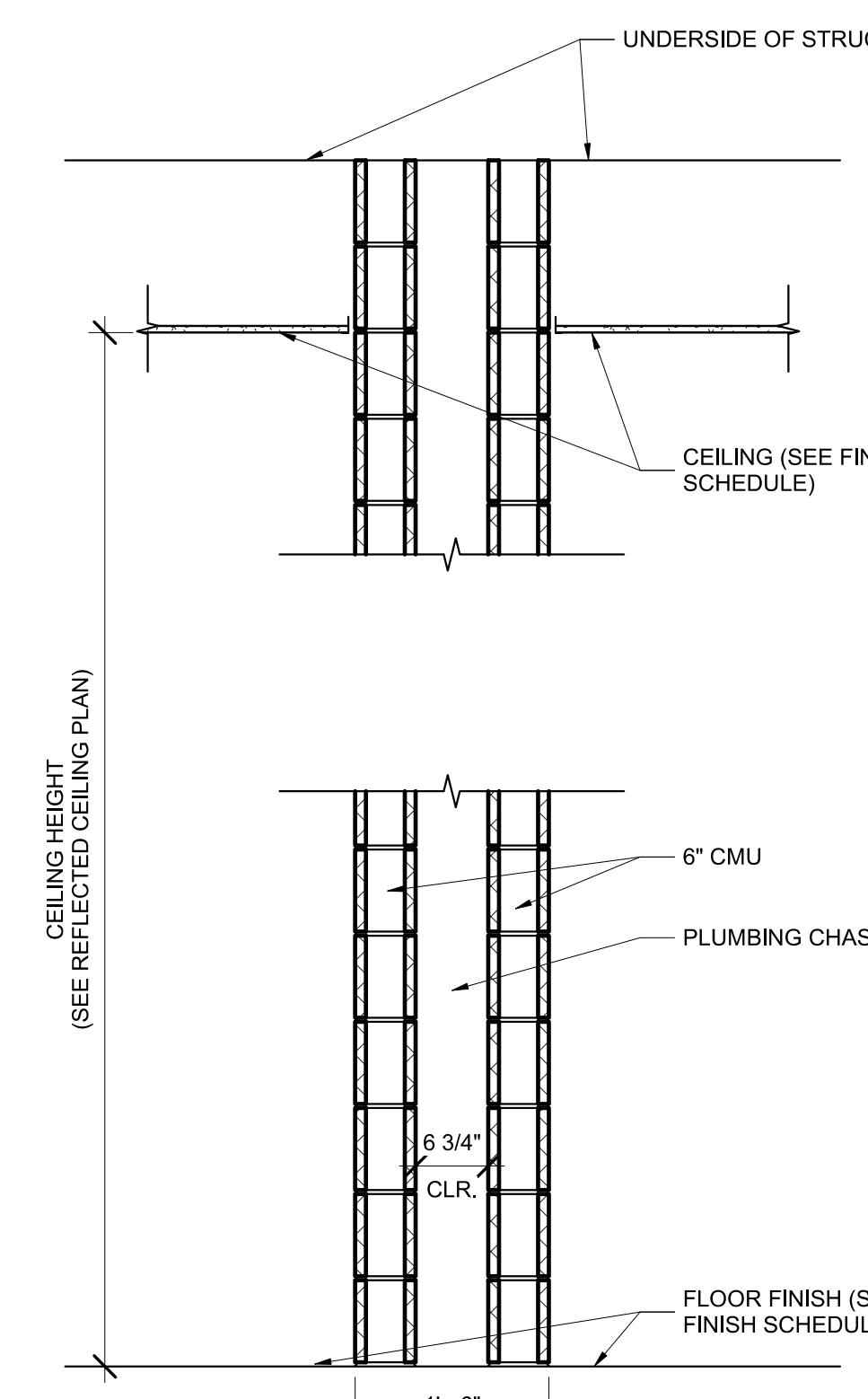
SHEET

A-601

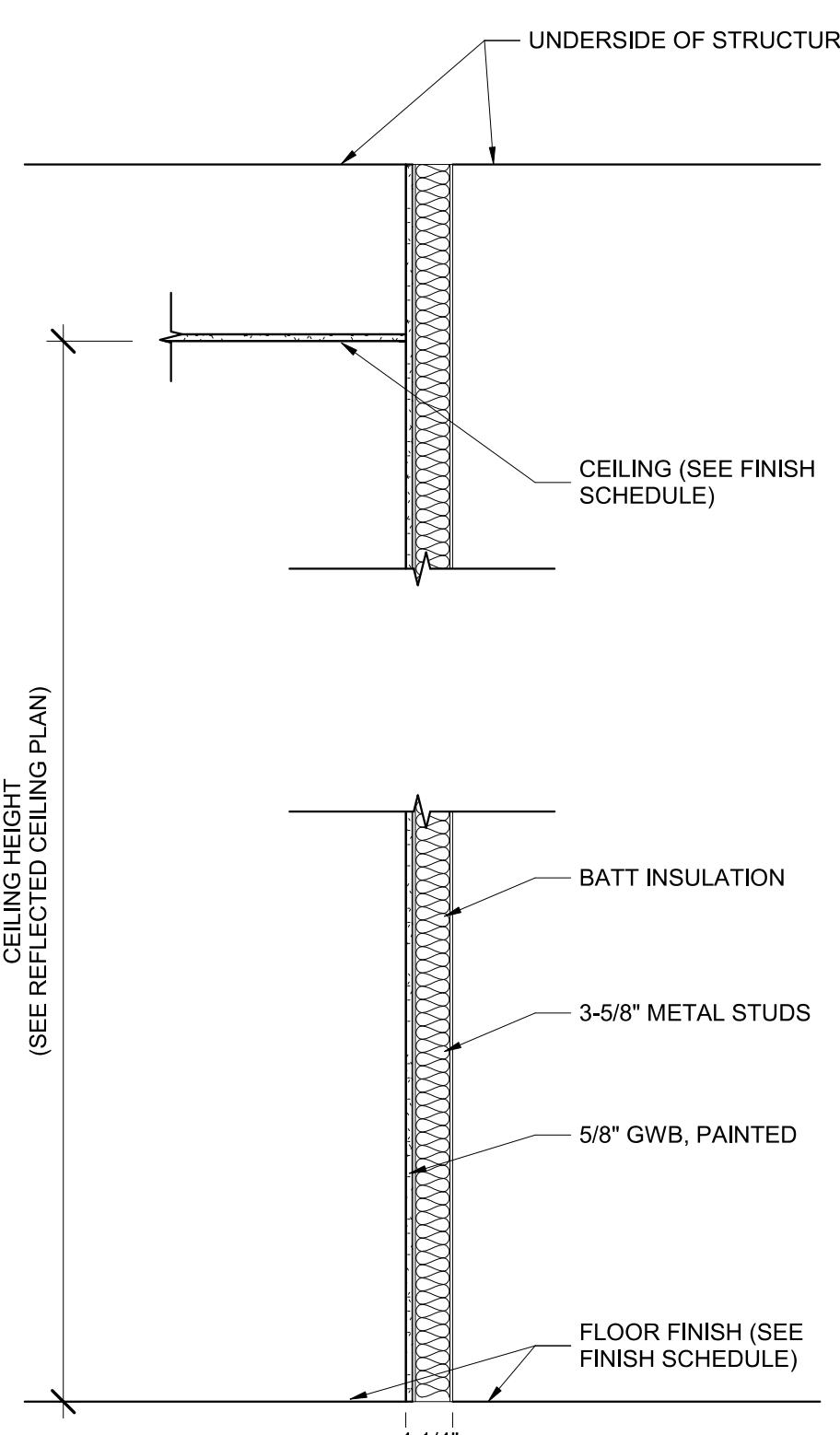
ROOM FINISH SCHEDULE													
ROOM NUMBER	ROOM NAME	FLOOR		WALLS				CEILING FINISH	REMARKS				
		FINISH	COLOR	FINISH	COLOR	FINISH	COLOR		FINISH	COLOR	FINISH	COLOR	
101	CONCESSIONS	SEALED CONCRETE		PAINT		PAINT		PAINT		PAINT		GWB	5/8" MOLD RESISTANT GWB FOR CEILINGS; PAINT GWB CEILING
102	IT CLOSET	SEALED CONCRETE		PAINT		PAINT		PAINT		PAINT		GWB	5/8" MOLD RESISTANT GWB FOR CEILINGS; PAINT GWB CEILING
103	MECH/ELEC	SEALED CONCRETE		PAINT		PAINT		PAINT		PAINT		EXPOSED	
104	RESTROOM	SEALED CONCRETE		PAINT		PAINT		PAINT		PAINT		GWB	5/8" MOLD RESISTANT GWB FOR CEILINGS; PAINT GWB CEILING
105	RESTROOM	SEALED CONCRETE		PAINT		PAINT		PAINT		PAINT		GWB	5/8" MOLD RESISTANT GWB FOR CEILINGS; PAINT GWB CEILING



TYPICAL INTERIOR PARTITION

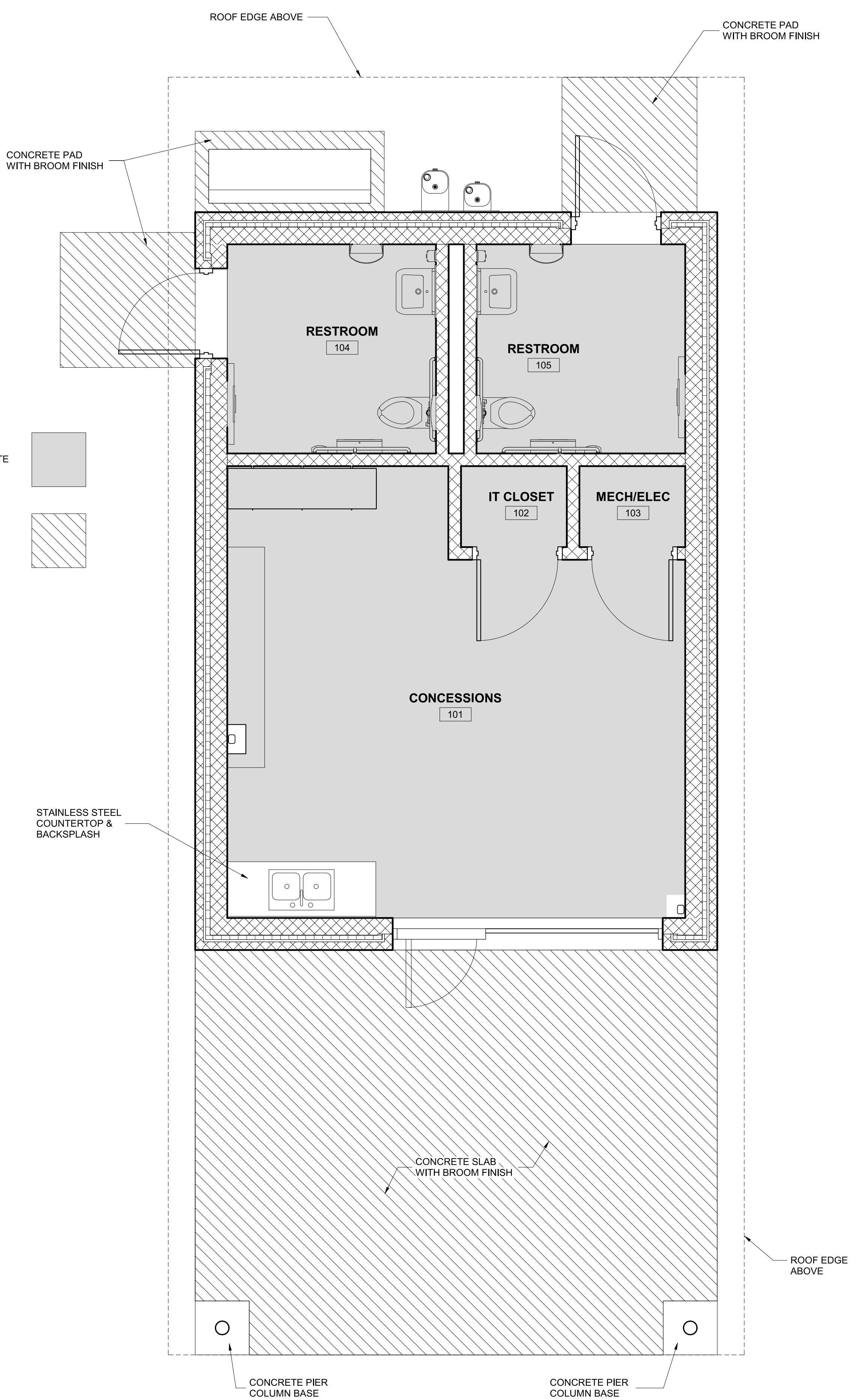


TYPICAL RESTROOM PLUMBING CHASE PARTITION



TYPICAL CHASE PARTITION

② PARTITION TYPES
3/4" = 1'0"



① FIRST FLOOR - FINISH PLAN
3/8" = 1'0"

Mark	Date	Description
1	8/3/2021	50% CONSTRUCTION DOCUMENTS
2	12/3/2021	100% CONSTRUCTION DOCUMENTS
3	8/8/2025	BID SET

PROJECT NO: 20120
DRAWN BY: NFL/KCG
CHECKED BY: RDT
PARTITION TYPES & FINISH SCHEDULE
SHEET A-602

Murphy & Dittnerhauer
ARCHITECTS
800 North Charles Street, Baltimore, Maryland 21201
410-625-4623 voice 410-625-4671 fax
228 West Market Street, York, Pennsylvania 17401
717-848-8627 voice 717-848-2449 fax

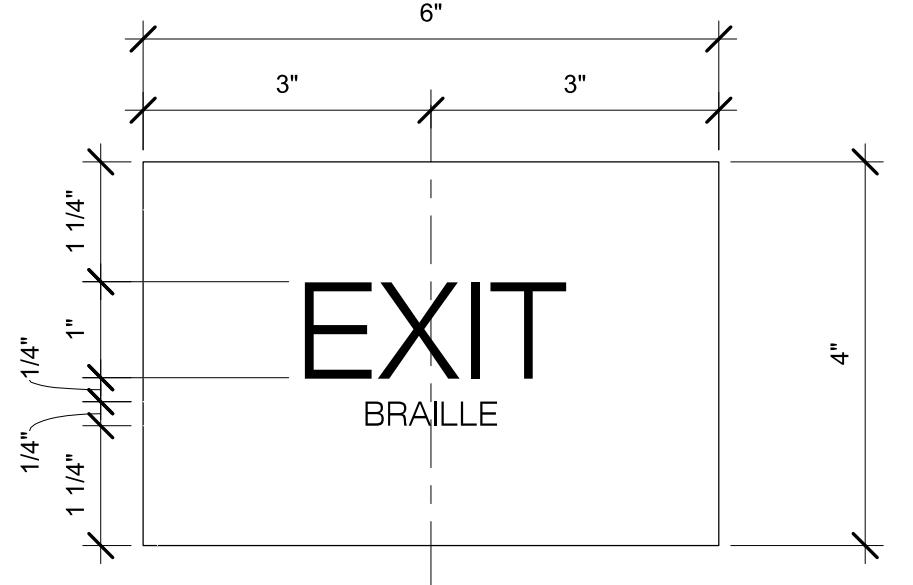
BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230

BALTIMORE CITY RECREATION & PARKS
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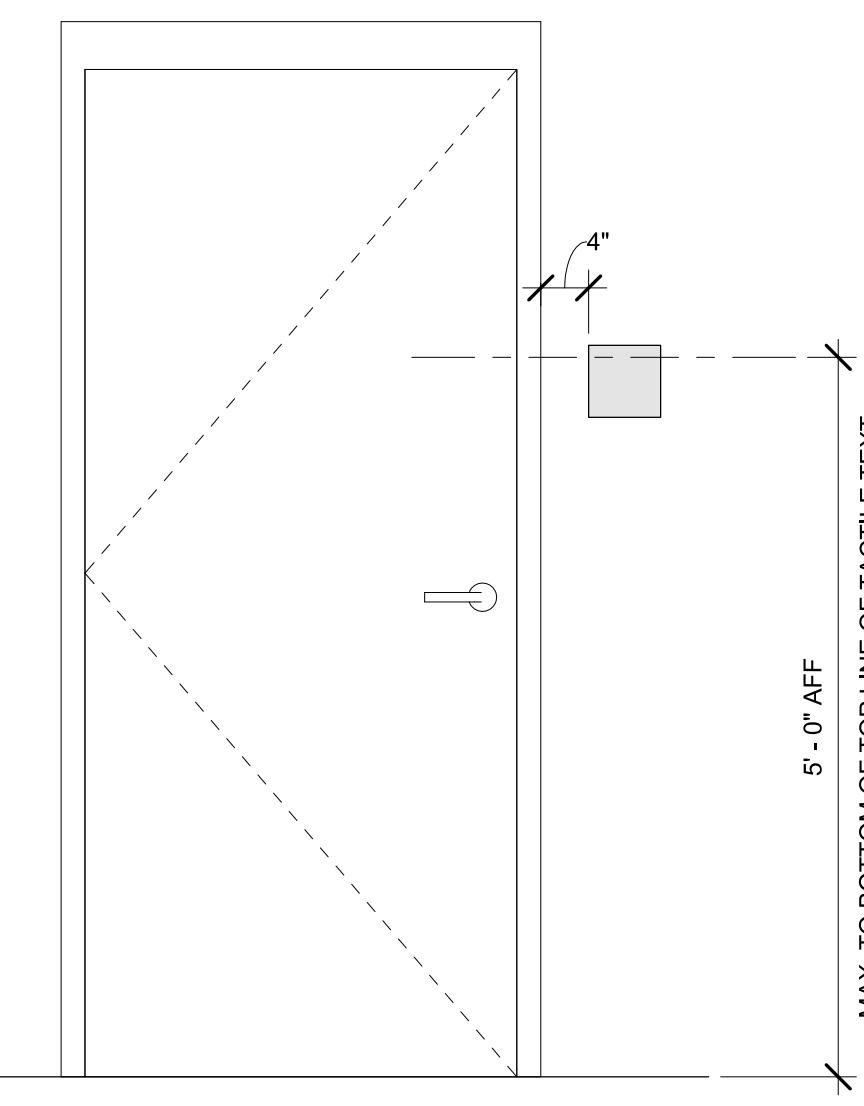


TYPE 1
ACCESSIBLE UNISEX ROOM SIGN

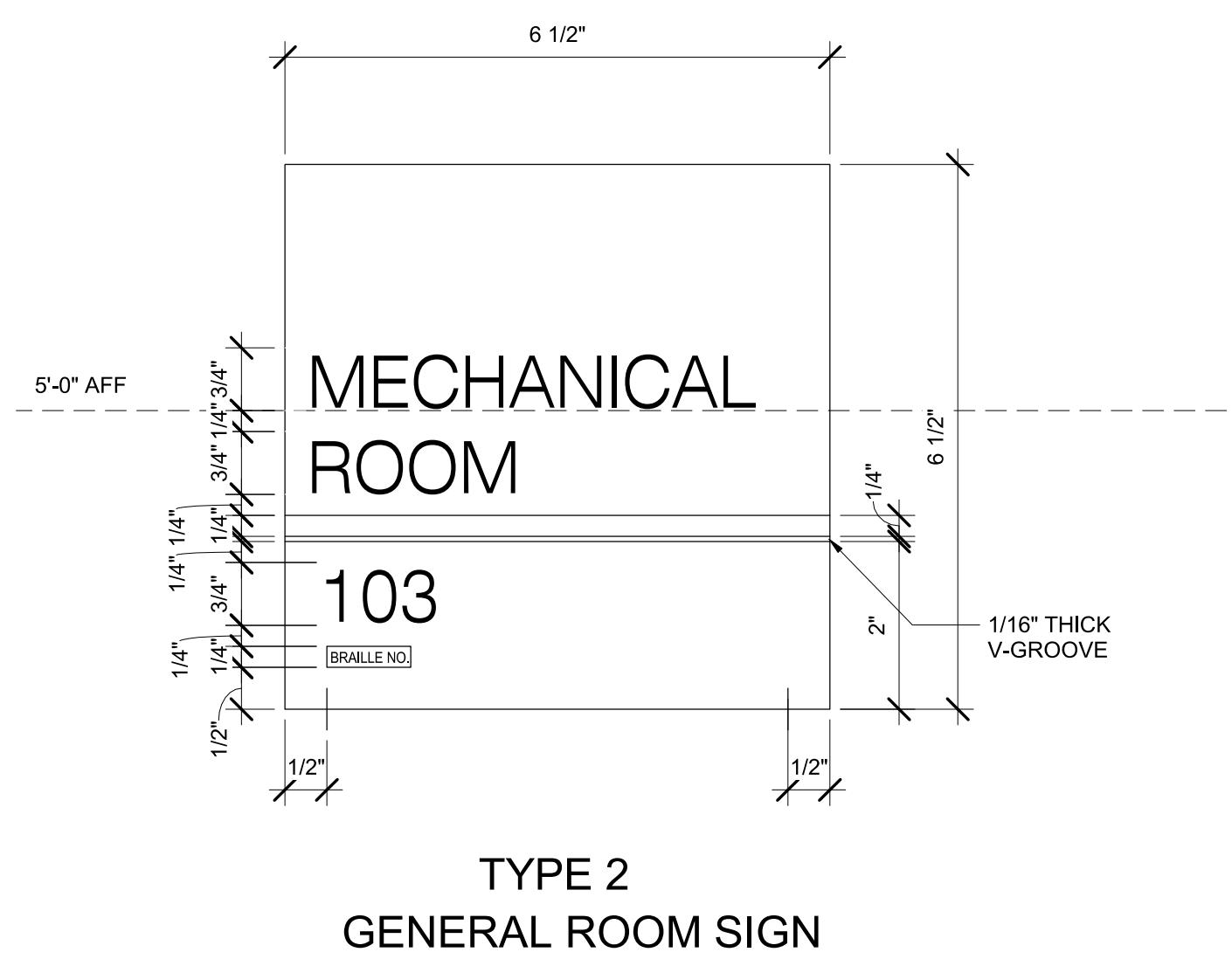


TYPE 3
ADA EXIT SIGNAGE

② SIGNAGE TYPES
6" = 1'-0"



③ TYPICAL SIGNAGE MOUNTING HEIGHT DETAIL
3/4" = 1'-0"



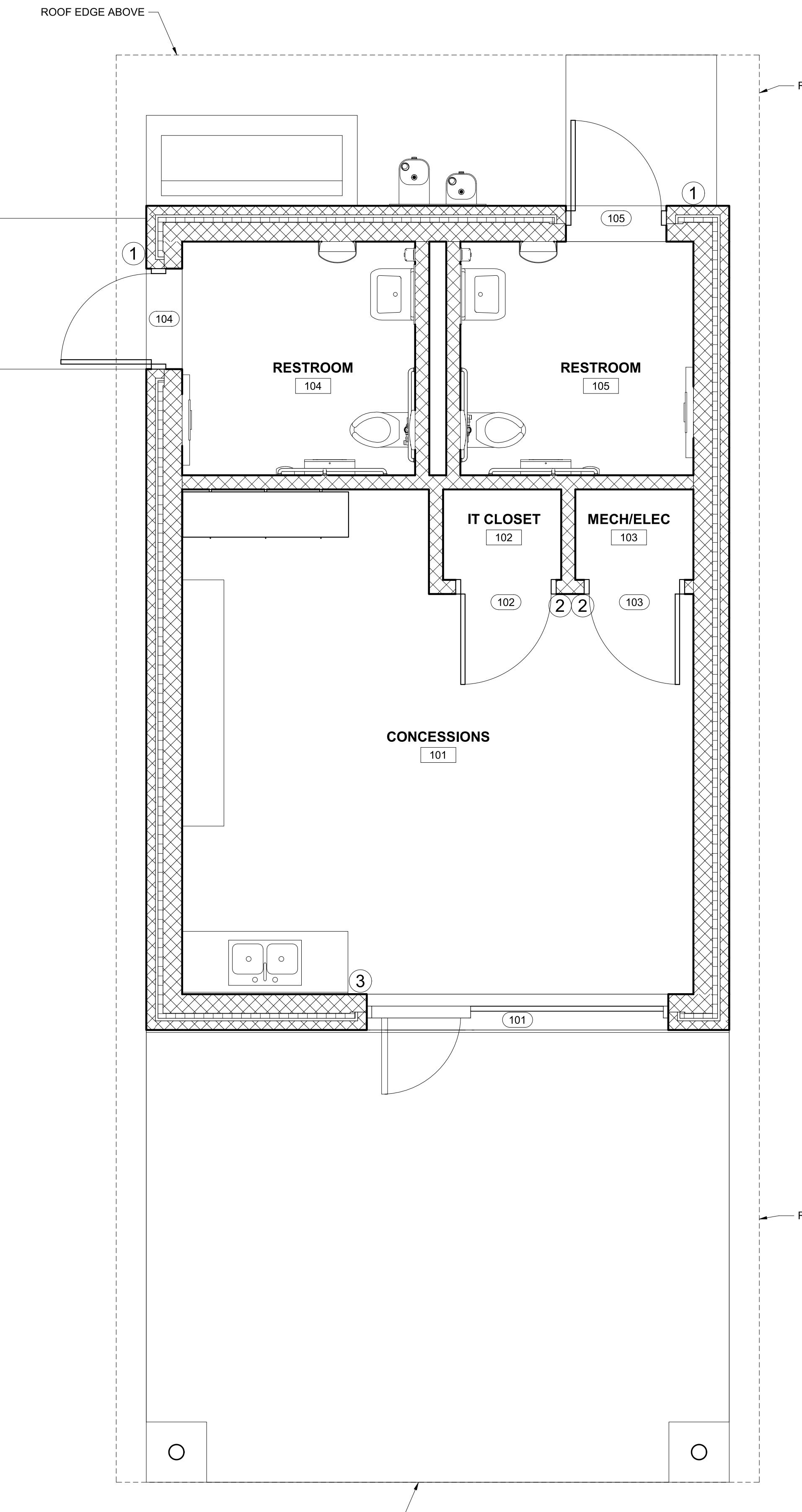
TYPE 2
GENERAL ROOM SIGN

ROOM NAME/NUMBER FOR EXAMPLE
ONLY, SEE ROOM SCHEDULE FOR
TEXT

SIGNAGE SCHEDULE

SIGNAGE TYPE	QUANTITY
TYPE 1	2
TYPE 2	2
TYPE 3	1

EXTERIOR MOUNTED SIGNS SHALL BE MOUNTED
WITH S.S. SCREWS



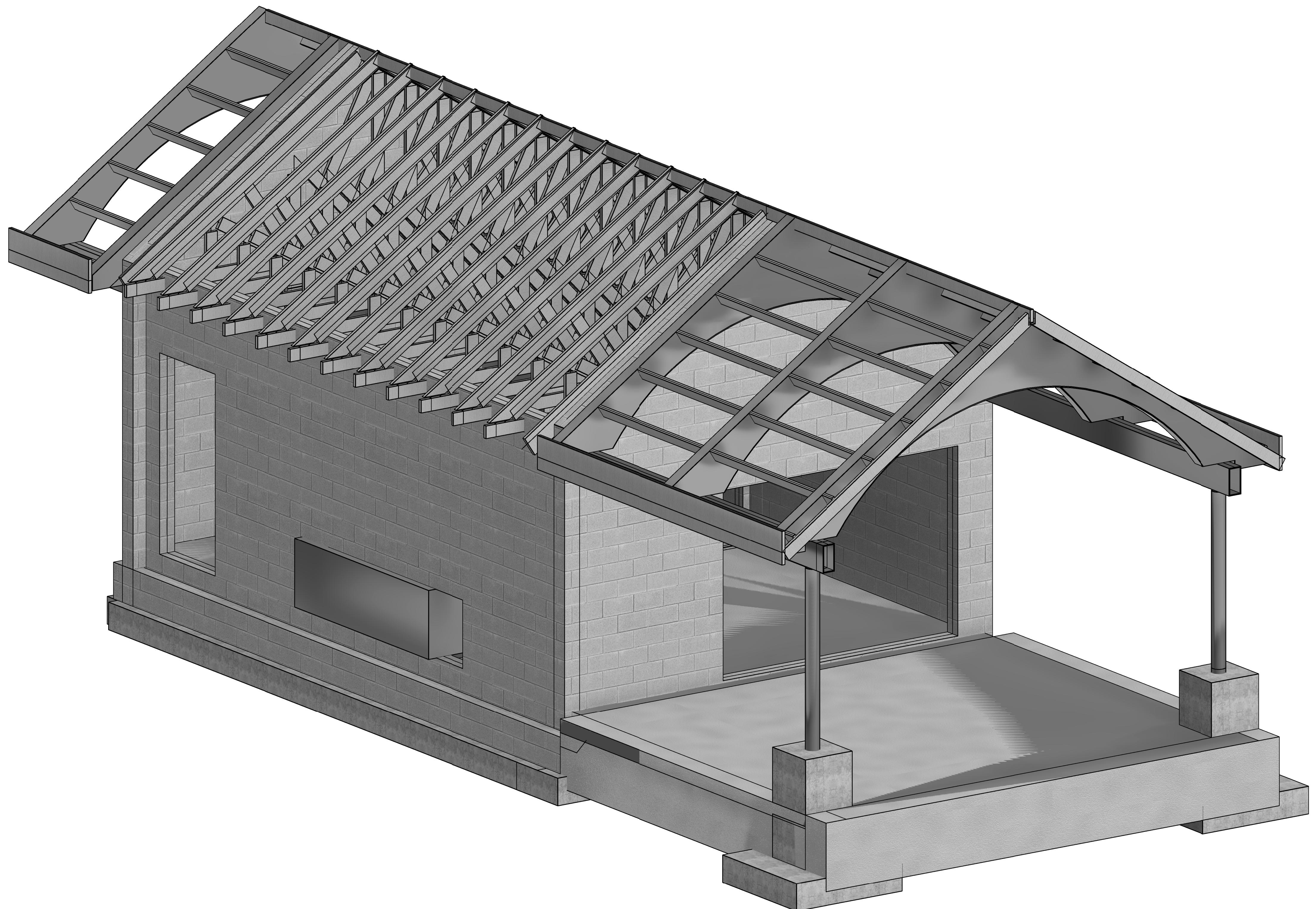
① FIRST FLOOR PLAN - SIGNAGE PLAN
3/8" = 1'-0"

PROJECT NO: 20120
DRAWN BY: KCG
CHECKED BY: RDT

SIGNAGE
TYPES &
SIGNAGE PLAN

SHEET

A-603



1 PERSPECTIVE VIEW

BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230

Murphy & Dittenhoffer
A R C H I T E C T S

228 West Market Street, York, Pennsylvania 17401
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900 North Charles Street, Baltimore, Maryland 21201
410-525-4623 voice 410-525-4671 fax

Mark	Date	Description
1	08/31/21	50% CONSTRUCTION DOCUMENTS
2	12/05/21	100% CONSTRUCTION DOCUMENTS
3	08/08/25	BID SET



PROJECT NO: 16126
DRAWN BY: AL
CHECKED BY: AJ

PERSPECTIVE

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED
OR APPROVED BY ME, AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE
STATE OF MARYLAND
NAME: ALAA JABER LICENSE NUMBER: 25342
EXPIRATION DATE: 02.15.2025

SHEET
S-001

BALTIMORE CITY RECREATION & PARKS
MORRELL PARK FIELD HOUSE
2415 TOLLEY ST., BALTIMORE, MD 21230

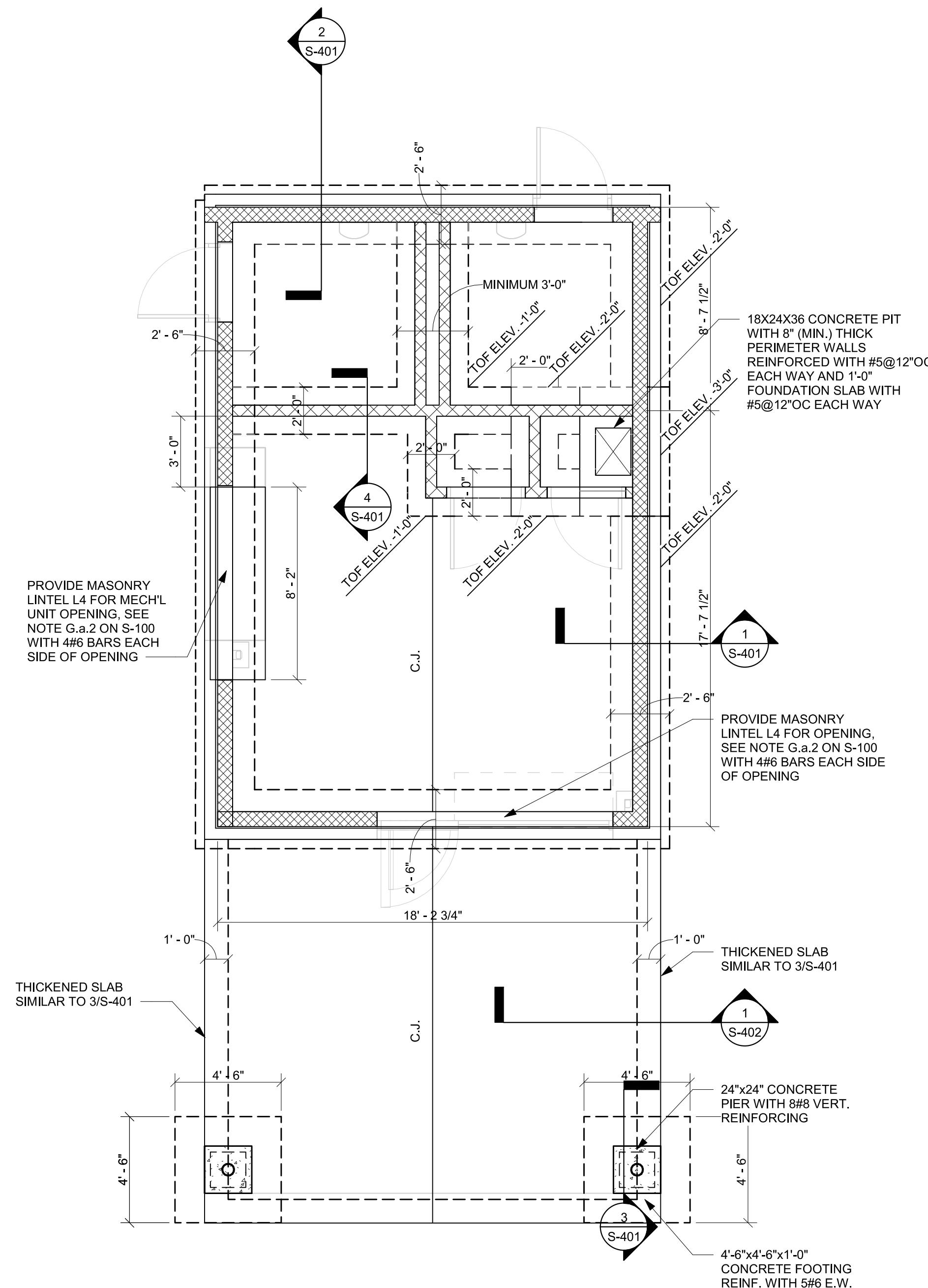
Murphy & Dittnerhauer
ARCHITECTS

228 West Market Street, York, Pennsylvania 17401
(717)845-2489 fax

900 North Charles Street, Baltimore, Maryland 21201
(410) 525-4623 voice

A. MAJOR CODES AND STANDARDS	
1. INTERNATIONAL BUILDING CODE 2018	
2. ASCE 7-16 (Formerly ANSI A58.1)	
3. ACI 318-2014	
4. AISC	ASD/LRFD Current Edition
5. NDS	Current Edition
6. AWS	Current Edition
7. ASTM	Current Edition.
B. DESIGN LOADS	
a. LIVE LOADS	
GROUND FLOOR	100 psf
ROOF	30 psf Min. + Snow Drift
b. SNOW LOADS	
Ground Snow Load	Pg = 30 psf
Snow Exposure Factor	Ce = 1.0
Snow Importance Factor	I = 1.0
Flat Roof Snow Load	Pf = 21 psf
c. LATERAL LOADS	
i. Wind	
Basic Wind Speed	115 MPH
Wind Exposure	C
Category	II
ii. Seismic	
Spectral Response Acceleration at short period:	Ss = 0.139
Design Spectral Response at short period :	Sds = 0.149
Spectral Response Acceleration at 1-sec. period:	Si = 0.043
Design Spectral Response at 1-sec. period :	SDi = 0.069
Importance Factor I :	Ie = 1.0
Site Class :	D
Building Occupancy Category :	II
Seismic Design Category :	B
Basic Seismic Force Resisting System :	Ordinary Reinforced Masonry Shear Walls
Response Modification Factor :	R = 2.4. For ordinary Reinf. CMU Shear Wall
Deflection Amplification Factor :	Cd = 1.75
Design Base Shear Analysis procedure :	Equivalent Lateral Force Procedure
1. NO PART OF THE BUILDING SHALL BE USED AS A STAGING AREA RESULTING IN A LOAD (UNDER THE LIMITED LOADED AREA) THAT EXCEEDS 75% OF THE DESIGN LIVE LOAD.	
C. GENERAL	
1. ALL DETAILS, SECTIONS, AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.	
2. NO CHANGE IN SIZE, DIMENSIONS OR POSITION OF STRUCTURAL ELEMENTS SHALL BE MADE, NOR SHALL ANY OPENINGS OR SLEEVES BE PERMITTED THROUGH ANY STRUCTURAL ELEMENT, WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD, UNLESS THEY ARE DETAILED AND SPECIFICALLY NOTED ON THE STRUCTURAL SHOP DRAWINGS. PROVIDE SEPARATE SHOP DRAWINGS INDICATING ALL THE PENETRATIONS THROUGH STRUCTURAL ELEMENTS FOR APPROVAL, PRIOR TO THE SUBMISSION OF THE SHOP DRAWINGS FOR THE AFFECTED STRUCTURAL ELEMENT.	
3. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF CHASES, OPENINGS, SLEEVES, DRIPS, REVEALS, FINISHES, DEPRESSIONS, DOORS, EXP. JOINT FILLER MATERIAL, AND OTHER SUCH PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.	
4. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AS REQUIRED TO PROPERLY CONSTRUCT THE BUILDING.	
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING CONSTRUCTION AND/OR SUBMITTING SHOP DRAWINGS FOR APPROVAL. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT DURING CONSTRUCTION.	
6. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT EXISTING AND NEW UTILITIES AND SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE DURING CONSTRUCTION	
7. PROVIDE MINIMUM 4" CONCRETE PADS REINFORCED WITH #4@12" E.W. AT ALL EQUIPMENT SUPPORTED ON SLABS ON GRADE OR ON FRAMED FLOORS (U.O.N.) USE LIGHT WEIGHT CONCRETE FOR ALL THE PADS ON FRAMED FLOORS. PAD SHALL EXTEND MINIMUM 6" ON ALL SIDES OF THE EQUIPMENT.	
8. DO NOT SCALE DRAWINGS.	
D. EARTHWORK	
1. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR SHORING AND BRACING (INCLUDING DETERMINING THE EXTENT AND NEED OF IT) OF THE BUILDING EXCAVATION EMBANKMENT INCLUDING THE EXCAVATION FOR UTILITIES AND FOUNDATIONS, AND IS ALSO FULLY RESPONSIBLE FOR THE DESIGN AND PERFORMANCE OF SHORING AND BRACING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR Dewatering CONSTRUCTION AS REQD.	
2. CONTRACTOR SHALL COORDINATE THE EXTENT OF THE EXCAVATION, SHORING AND BRACING WITH CIVIL DRAWINGS. CONTRACTOR SHALL ALSO REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR Dewatering, FILL UNDER SLAB ON GRADE, STABILITY OF SLOPES AND RELATED INFORMATION NOT COVERED IN THE STRUCTURAL DRAWINGS.	
3. IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 31200, CONTRACTORS QUALITY CONTROL, THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT GEOTECHNICAL INSPECTION AGENCY TO INSPECT ALL EARTHWORK, BACKFILLING, COMPACTION REQUIREMENTS AND VERIFY SOIL BEARING CAPACITY AT EACH FOOTING PRIOR TO PLACEMENT OF CONCRETE.	
E. FOUNDATION	
1. GEO-TECHNICAL REPORT HAS BEEN PREPARED BY _____ DATED ON _____.	
2. THE BUILDING FOUNDATION SYSTEM IS SPREAD FOOTING WITH 3 KSF ALLOWABLE BEARING CAPACITY ON NATURAL GROUND (SOIL)	
3. MATERIAL MUST BE PROVIDED AS CALLED IN THE SOIL REPORT AND MUST BE CERTIFIED BY A SITE SOIL ENGINEER REGISTERED IN THE STATE OF MARYLAND.	
4. LATERAL EARTH EQUIVALENT FLUID PRESSURE USED IS $P_o = 60 \text{ PCF} + 0.50 \times \text{SURCHARGE LOAD}$. BACKFILLING MATERIAL MUST BE PROVIDED AS CALLED IN THE SOIL REPORT AND MUST BE CERTIFIED BY THE ON SITE GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF MARYLAND.	

5. FILLS UNDER SLABS ON GRADE SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS AND NOTES ON THE DRAWINGS. FILLS UNDER SLABS ON GRADE SHALL BE PROOF ROLLED USING A 10 TON LOADED DUMP TRUCK OR EQUIVALENT PRIOR TO PLACING CONCRETE AND AFTER ANY EXCAVATION. NO BACKFILLING IN THE VICINITY HAS BEEN COMPLETED. THEY SHALL BE COMPACTION IN LIFTS NOT EXCEEDING 6" IN LOOSE THICKNESS TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY FOR PTM-1 (ASTM D-698). ALL COMPACTION SHALL BE APPROVED BY THE GEOTECH ENGINEER.					
6. FOOTINGS MUST BE PLACED ONLY AFTER, AND WITHIN ONE DAY OF, THE APPROVAL OF THE SOIL OR ROCK BEARING CAPACITY BY THE CONTRACTOR'S ON SITE GEOTECHNICAL ENGINEER. ANY SOIL OR ROCK BEARING SURFACE DISTURBED AFTER INSPECTION OR NOT COVERED WITH MINIMUM OF 4" CONCRETE WITHIN THE ABOVE SPECIFIED PERIOD, MUST BE REINСПECTED BEFORE CONCRETE IS PLACED. IF LESSER BEARING CAPACITY VALUE IS ENCOUNTERED AT THE SPECIFIED ELEVATION, THE CONTRACTOR SHALL CONTACT THE EOR FOR FURTHER DIRECTION PRIOR TO PLACING THE FOUNDATION.					
F. CONCRETE					
1. ALL CONCRETE SHALL BE CONTROLLED CONCRETE, NORMAL WEIGHT (UNLESS OTHERWISE NOTED) WITH COMPRESSIVE STRENGTH AS FOLLOWS:					
SLAB ON GRADE	$f_c = 3,500 \text{ psi}$				
MUD SLAB	$f_c = 2,000 \text{ psi}$				
PIERS OR PEDESTALS	$f_c = 4,000 \text{ psi}$				
2. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES. HOPPERS, VERTICAL CHUTES, OR TRUNKS SHALL BE USED IN SUFFICIENT NUMBERS SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED SIX FEET AND TO ENSURE THAT THE CONCRETE IS KEPT LEVEL AT ALL TIMES.					
3. CLEAN SURFACE AND PROVIDE BONDING COMPOUND PRIOR TO PLACING CONCRETE AGAINST CONCRETE IN PLACE.					
4. THE CONTRACTOR SHALL PROVIDE SHOP DWG. FOR SLAB ON GRADE CONTROL JOINTS FOR APPROVAL.					
5. ALUMINUM CONDUITS OR OTHER EMBEDDED ITEMS ARE NOT PERMITTED IN CONCRETE ELEMENTS.					
6. CONCRETE MIX DESIGNS SHALL BE MADE BY AN APPROVED LABORATORY FOR ALL CONCRETE AND SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR APPROVAL BEFORE USE.					
7. CALCIUM CHLORIDE SHALL NOT BE PERMITTED IN CONCRETE IN ANY FORM.					
8. ALL KEYS SHALL BE 2"x4" (NORMAL) UNLESS OTHERWISE SHOWN ON THE DRAWINGS.					
9. IF CONTROL JOINTS ARE CUT INTO SLAB ON GRADE, SOFT-CUT METHOD SHALL BE USED. JOINTS MUST BE CUT WITHIN 2 HOURS OF THE END OF FINISHING OPERATIONS.					
10. CONCRETE CAST ON SLOPED SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION UNTIL THE INTENDED POOR IS COMPLETED.					
11. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE NOTED ON ARCHITECTURAL PLANS AND SPECIFICATIONS.					
G. REINFORCING STEEL					
1. ALL REINFORCING STEEL, INCLUDING STIRRUPS AND TIES, SHALL BE HIGH STRENGTH, NEW BILLET STEEL CONFORM TO ASTM A-6 GRADE 60. ALL REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A-706 GRADE 60.					
2. U.O.N. ON STRUCTURAL DRAWINGS, PROVIDE MINIMUM CONCRETE PROTECTION FOR REINFORCING, AS FOLLOWS:					
CAST AGAINST EARTH	3"				
EXPOSED TO EARTH OR WEATHER:					
#5 and smaller bars and W.W.F.	1-1/2"				
#6 and larger bars	2"				
NOT EXPOSED TO EARTH OR WEATHER:					
SLABS AND WALLS:					
#11 and smaller bars and W.W.F.	3/4"				
BEAMS, PIERS AND COLUMNS:	1-1/2"				
3. WHERE CONSTRUCTION JOINTS ARE PROVIDED, THE REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH THE JOINT AND ADEQUATE SHEAR TRANSFER REINFORCEMENT SHALL BE PROVIDED.					
4. W.W.F. SHALL HAVE ENDS LAPPED ONE FULL PANEL +2" AND SHALL BE WIRED TIED.					
5. ALL WELDING OF REINFORCING TO BE DONE WITH E90XX ELECTRODES IN ACCORDANCE WITH LATEST A.W.S. SPECIFICATIONS FOR REINFORCING STEEL.					
H. STRUCTURAL STEEL					
1. ALL STRUCTURAL W SHAPE STEEL SHALL CONFORM TO ASTM SPECIFICATIONS A-992 OR A-572 GRADE 50 (50G) FOR WHICH MILL TEST REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER.					
2. TUBES SHALL CONFORM TO ASTM A-500 GRADE B, AND PILES SHALL CONFORM TO ASTM A53.					
3. HIGH STRENGTH STEEL BOLTS SHALL CONFORM TO ASTM A-325 OR A-490. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554.					
4. STEEL CONNECTIONS:					
a. ALL CONNECTIONS SHALL BE DESIGNED USING ALLOWABLE STRESS DESIGN.					
b. THE CONNECTIONS SHALL BE DESIGNED FOR THE REACTIONS INDICATED ON THE PLANS PLUS 10% IN CASE WHERE REACTIONS ARE NOT INDICATED, THE REACTIONS SHALL BE CALCULATED AS FOLLOWS:					
(a) FOR NON-COMPOSITE BEAMS/GIRDERS THE REACTIONS SHALL BE HALF THE TOTAL UNIFORM LOAD CAPACITY SHOWN ON AICU MANUAL "TABLES FOR ALLOWABLE LOADS ON BEAMS" FOR THE GIVEN STEEL SECTIONS AND SPAN.					
c. NO CONNECTION SHALL BE DESIGNED FOR LESS THAN 10 KIPS OF REACTION.					
d. BOLTS USED SHALL NOT BE SMALLER THAN 3/4" IN DIAMETER.					
e. ANY "SLIP CRITICAL" CONNECTIONS REQUIRED SHALL BE MADE BY THE USE OF TWIST-OFF TENSION CONTROL TYPE BOLTS CONFORMING TO ASTM F-1852.					
f. THE MINIMUM NUMBER OF BOLT ROWS PER CONNECTION SHALL BE PER THE FOLLOWING TABLE:					
NOMINAL BEAM DEPTH	MINIMUM # OF ROWS				
6, 8, 10, 12	2				
14, 16, 18	3				
g. STIFFENED OR UN-STIFFENED SEATED CONNECTIONS ARE NOT ALLOWED.					
h. SINGLE PLATE SHEAR CONNECTIONS, ARE PERMITTED ONLY IN ACCORDANCE WITH THE FOLLOWING RESTRICTIONS:					
(a) FOR BEARING TYPE BOLTS ONLY STANDARD HOLES SHALL BE USED FOR THE CONNECTION TO THE BEAM. SHORT OR LONG SLOTTED HOLES ARE NOT PERMITTED. FOR SLIP CRITICAL TYPE BOLTS/CONNECTION ANY SLOTTED HOLES ARE PERMITTED.					
(b) THE WELD SHALL BE CONSIDERED TO CARRY ONLY SHEAR ALL MOMENT RESULTING FROM THE ECCENTRICITY SHALL BE RESISTED BY THE BOLT GROUP.					
(c) THE EFFECT OF THE WELDING ON BOTH SIDES OF A GIRDER OR COLUMN WEB MUST BE ENGINEERED.					
j. SINGLE ANGLE CONNECTIONS ARE PERMITTED ONLY IN ACCORDANCE WITH THE FOLLOWING RESTRICTIONS:					
(a) CONNECTION OF BOTH LEGS OF THE ANGLE SHALL BE BY BOLTS (SHOP & FIELD BOLTED), WELDING OF THE ANGLE TO THE SUPPORTING MEMBER IS NOT ALLOWED.					
(b) THE SAME LENGTH, GAGE, NUMBER AND TYPE OF BOLTS MUST BE USED FOR BOTH LEGS OF THE ANGLE.					
(c) FOR BEARING TYPE BOLTS ONLY STANDARD HOLES SHALL BE USED FOR THE CONNECTION. SHORT OR LONG SLOTTED HOLES ARE NOT PERMITTED. FOR SLIP CRITICAL TYPE BOLTS/CONNECTION SLOTTED HOLES ARE PERMITTED.					
k. DOUBLE ANGLE CASE I TYPE CONNECTION (WELDED TO BEAM, BOLTED TO GIRDER/COLUMN) ARE PERMITTED WITH NO RESTRICTION.					
l. DOUBLE ANGLE CASE II TYPE CONNECTION (BOLTED TO BEAM, WELDED TO GIRDER/COLUMN) ARE PERMITTED ONLY IN ACCORDANCE WITH THE FOLLOWING RESTRICTIONS:					
(a) FOR BEARING TYPE BOLTS ONLY STANDARD HOLES SHALL BE USED FOR CONNECTION TO THE BEAM. SHORT OR LONG SLOTTED HOLES ARE NOT PERMITTED. FOR SLIP CRITICAL TYPE BOLTS/CONNECTION SLOTTED HOLES ARE PERMITTED.					
(b) THE WELD SHALL BE CONSIDERED TO CARRY ONLY SHEAR AND MOMENT RESULTING FROM ECCENTRICITY SHALL BE RESISTED BY THE BOLT GROUP.					
(c) THE EFFECT OF THE WELDING ON BOTH SIDES OF A GIRDER OR COLUMN WEB MUST BE ENGINEERED.					
m. END PLATE SHEAR CONNECTIONS ARE PERMITTED WITH NO RESTRICTIONS.					
n. MOMENT, TRUSS & BRACING CONNECTIONS SHALL UTILIZE SLIP CRITICAL BOLTS FOR ALL CONNECTIONS.					
o. ALL TUBE TO W SHAPE COLUMNS SHALL BE MADE W/ END PLATE CONNECTION.					
q. ALL CURVED BEAMS SHALL BE CONNECTED TO EACH END COLUMN W/ MOMENT CONNECTION AS REQUIRED.					
5. SPlicing OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED IS PROHIBITED.					
6. WHEN BEAM FLANGES ARE COPED MORE THAN DISTANCE K, SHEAR CAPACITY OF THE REMAINING WEB MUST BE CHECKED BY THE DETAILER, UNLESS CLIP ANGLES ARE EXTENDED 1" BEYOND THE COPE.					
7. ANY BOLTED CONNECTION INDICATED ON DRAWINGS CAN BE SUBSTITUTED W/ WELDED ONE (SHOP OR FIELD) OF EQUAL CAPACITY. IF BOLTING CLEARANCES REQUIRE SO, SUBSTITUTION SHALL BE AT NO EXTRA COST TO THE AUTHORITY & ONLY AFTER THE APPROVAL OF EOR.					
8. ALL CONTACT SURFACES WITH HIGH-STRENGTH BOLT CONNECTIONS SHALL BE FREE OF OIL, PAINT, LACQUER OR GALVANIZING.					
9. WELDING ELECTRODES SHALL CONFORM TO ASTM SPECIFICATIONS E-70XX.					
10. ALL BUTT WELDS SHALL BE FULL PENETRATION BUTT WELDS. SHOP PAINTED WITH A RUST INHIBITIVE GRAY PRIMER.					
11. ALL STRUCTURAL STEEL NOT RECEIVING SPRAY-ON FIREPROOFING INCLUDING ALL MEMBERS AND CONNECTIONS SHOWN AND NOTED ON THE DRAWINGS SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE GRAY PRIMER. NO ASPHALTIC PAINT IS PERMITTED					
12. ALL STEEL EXPOSED TO WEATHER STEEL SHALL BE HOT DIP GALVANIZED.					
13. BASE PLATES, BEAMS, COLUMNS, AND HARDWARE EXPOSED TO SOIL SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE PRIOR TO BACKFILL.					
14. FABRICATE BEAMS WITH THE NATURAL CAMBER UP.					
15. NO FINAL BOLTING OR WELDING SHALL BE DONE UNTIL AS MUCH OF THE STRUCTURAL FRAMING AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.					
16. THE MINIMUM PLATE THICKNESS SHALL BE $5/16"$ (U.O.N.). THE MINIMUM BOLT DIAMETER SHALL BE $3/4"$ (U.O.N.). THE MINIMUM WELD THROAT SHALL BE $3/16"$ (U.O.N.).					
17. ALL TEMPORARY ERECTION BRACING SHALL REMAIN IN PLACE UNTIL ALL STRUCTURAL MEMBERS ARE PROPERLY ALIGNED AND CONNECTED AND SHALL NOT BE REMOVED WITHOUT WRITTEN APPROVAL OF ARCHITECT, ENGINEER AND OWNER.					
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES.					
G. LINTELS					
a. MASONRY BOND BEAM LINTELS:					
1. PROVIDE MASONRY BOND BEAM UNIT WITH THICKNESS EQUAL TO MIN. WIDTH OF WALL.					
2. PROVIDE THE FOLLOWING BOND BEAM LINTELS UNLESS OTHERWISE NOTED OR SHOWN ON CONTRACT DOCUMENTS:					
REINF.					
MARK	SPAN	HEIGHT	BOT.	TOP	STIRRUPS
L1	3'-1" TO 4'-0"	16"	2#5	2#4	2#3 @ 8"
L2	4'-1" TO 6'-0"	16"	2#5	2#4	2#3 @ 8"
L3	6'-1" TO 8'-0"	16"	2#6	2#4	3#3 @ 8"
L4	8'-1" TO 10'-0"	16"	2#7	2#5	4#3 @ 8"
L5	10'-1" TO 14'-4"	16"	2#8	2#5	6#3 @ 8"
3. MINIMUM BEARING AT EACH END SHALL BE 8" U.O.N. FOR BOND BEAM OR PRECAST LINTELS.					
b. STEEL LINTELS:					
1. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR TYPES OF LINTEL REQUIRED.					
2. PROVIDE ONE STEEL ANGLE FOR EACH 4" OF WALL THICKNESS FOR THE FOLLOWING OPENINGS UNLESS OTHERWISE NOTED OR SHOWN ON CONTRACT DOCUMENTS:					
OPENINGS UP TO 3'-4"	L3-1/2X3-1/2X5/16 (LLV)				
OPENINGS 3'-5" TO 5'-0"	L4X3-1/2X5/16 (LLV)				
OPENINGS 5'-1" TO 6'-0"	L5X3-1/2X5/16 (LLV)				
3. FOR OPENINGS 6'-1" UP TO 8'-6", PROVIDE W8 X 15 WITH 5/16" SUSPENDED PLATE BY 5/16" PLATE HANGERS @ 16" O.C. UNLESS OTHERWISE NOTED.					
FOR OPENINGS 8'-7" UP TO 11'-0", PROVIDE W8 X 24 WITH 5/16" SUSPENDED PLATE AND 5/16" PLATE HANGERS @ 16" O.C. UNLESS OTHERWISE NOTED.					
4. THE STEEL LINTEL SCHEDULES ABOVE SHALL APPLY TO ALL PENETRATIONS U.O.N. THROUGH RUNNING BOND MASONRY WALLS U.O.N.					
5. PRECAST LINTELS, WHEN USED FOR MASONRY PARTITION WALL ONLY SHALL BE DESIGNED BY THE PRECAST MANUFACTURER.					
6. MINIMUM BEARING AT EACH END SHALL BE 6" FOR STEEL AND 8" FOR BOND BEAMS, PRECAST AND C.I.P. LINTELS. PROVIDE 2-1/2" x 6" ANCHOR BOLTS WELDED TO PLATE AND PLACED ON GROUTED MASONRY CELLS AT EACH END OF STEEL BEAM LINTELS.					
7. PROVIDE SHOP PRIMER FOR ALL INTERIOR STE					



1 FIRST FLOOR AND FOUNDATION PLAN

1/4" = 1'0"

FIRST FLOOR AND FOUNDATION PLAN NOTES

1. T.O. SLAB ON GRADE IS 0.00' TYP. (U.O.N.). CONCRETE SLAB ON GRADE SHALL BE 5" THICK CONCRETE SLAB REINFORCED W/ 6#6-W2.9xW2.9 W.W.F. ON 15 MIL VAPOR BARRIER, ON 4" LAYER OF CLEAN CRUSHED STONE OR GRAVEL, PLACED OVER WELL COMPACTED SOIL. (U.O.N.)
2. ALL BEARING & SHEAR WALLS SHALL BE REINFORCED WITH #5@16" O.C. VERT. AND ALL MASONRY BELOW GROUND SHALL BE SOLID GROUTED.
3. TOP ELEVATION OF EXTERIOR FOOTING 2'0" MIN BELOW EXT SOG. OR FINISHED GRADE U.O.N. TOP ELEVATION OF INTERIOR FOOTING 1'0" MIN BELOW FINISHED GRADE U.O.N.
4. C.J. INDICATES CONTROL JOINT OR CONSTRUCTION JOINTS
5. INDICATES CMU BEARING & SHEAR WALLS (U.O.N.)
6. REFER TO DRAWINGS: S101 FOR GENERAL NOTES
S301-302 FOR TYPICAL DETAILS
S401-402 FOR SECTIONS AND DETAILS

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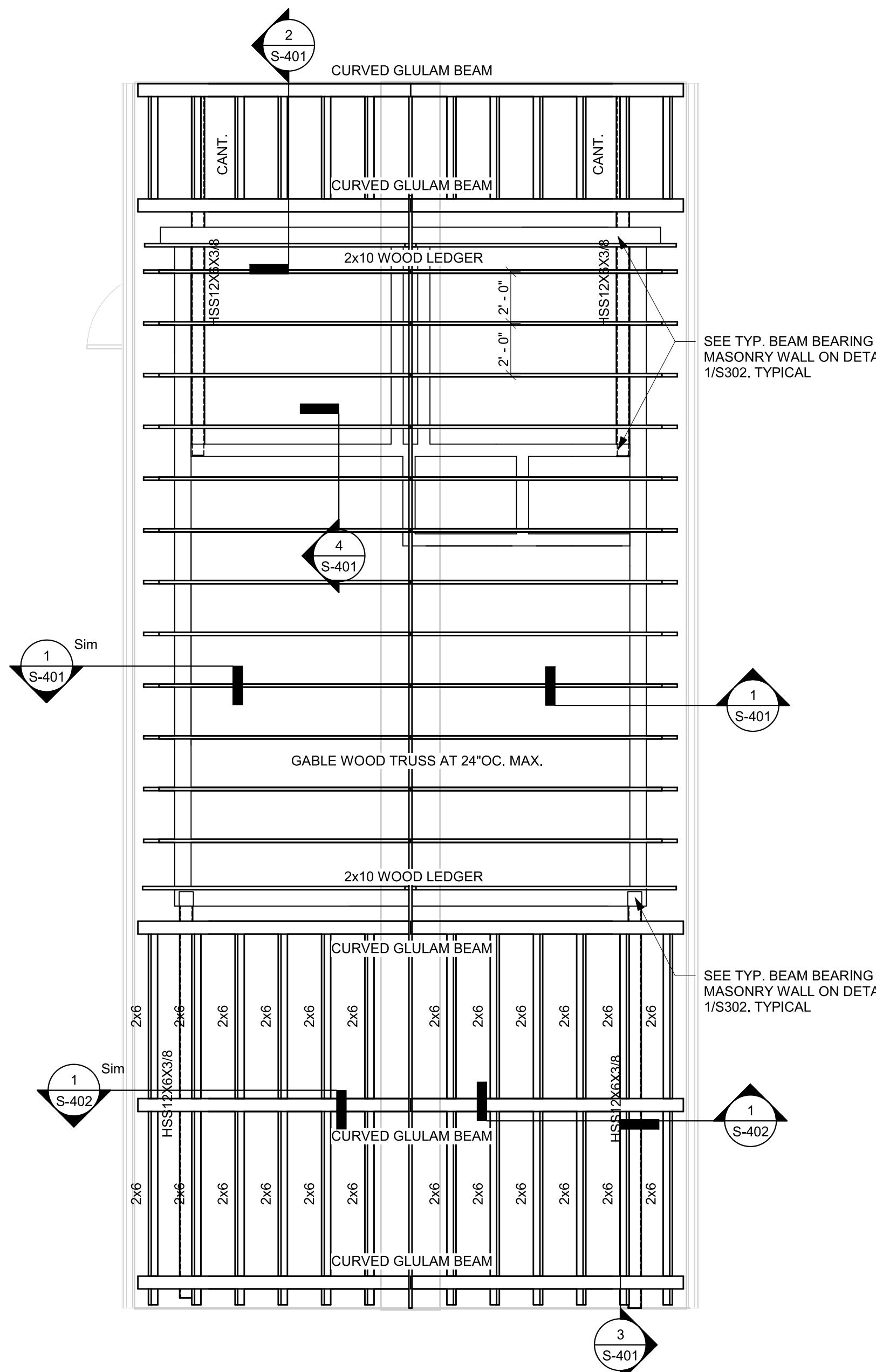
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1	08/31/21	50% CONSTRUCTION DOCUMENTS
2	12/05/21	100% CONSTRUCTION DOCUMENTS
3	08/08/25	BD SET



PROJECT NO: 16126
DRAWN BY: AL
CHECKED BY: AJ
FIRST FLOOR & FOUNDATION PLAN

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NAME: ALAA JABER LICENSE NUMBER: 25342
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SHEET
S-201



1 ROOF FRAMING PLAN
1/4" = 1'-0"

ROOF FRAMING PLAN NOTES

1. BOTTOM OF DECK ELEVATION SHALL VARY TO ACCOMMODATE ROOF SLOPES.
2. ROOF CONSTRUCTION SHALL BE 3/4" MIN. T&G WOOD BOARDS OVER THE FRONT AND BACK PORCHES (GLULAM LOCATIONS) AND 3/4" PLYWOOD SHEATHING EVERYWHERE ELSE. MATERIAL FOR WOOD BOARDS SHALL BE CEDAR OR SOUTHERN PINE.
3. INDICATES CMU BEARING & SHEAR WALLS W/ #5@16" O.C. TYP.
4. SEE ARCH. AND MEP DRAWINGS FOR ELEVATIONS, SLOPES, E.O.S., DIMENSIONS, SLEEVES, OPENINGS AND OTHER REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
5. WOOD LEDGER (IF REQ'D) SHALL BE ANCHORED TO MASONRY WALL WITH 5/8" DIA EPOXY ADHESIVE ANCHORS x 6" LONG, AT 16" O.C. TOP AND BOTTOM.
6. REFER TO DRAWINGS: S101 FOR STRUCTURAL NOTES
S301-302 FOR TYPICAL DETAILS
S401-402 FOR SECTIONS AND DETAILS
7. COORDINATE PLACEMENT OF OPENINGS SUCH THAT THEY WILL NOT INTERFERE WITH THE STRUCTURAL FRAMING SHOWN ON THE PLANS. CONTRACTOR IS TO PROVIDE FRAMING FOR ALL ROOF OPENINGS NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. FOR ROOF OPENING FRAMING, SEE TYP. DETAIL 8/S301.

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717-843-2487 voice

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ROOF
FRAMING PLAN

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SHEET
S-202

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Mark	Date	Description
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3	08/09/21	BID SET

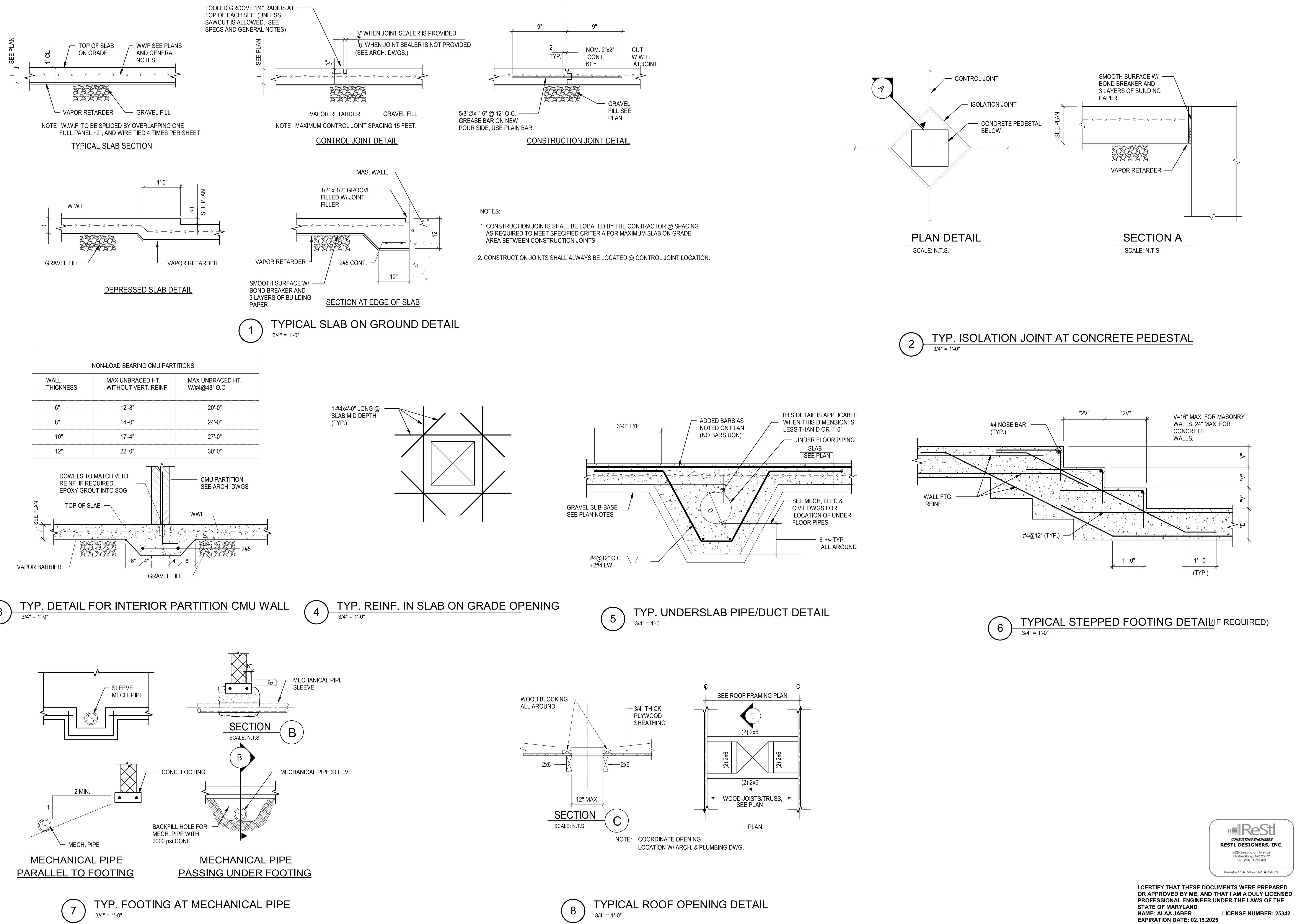


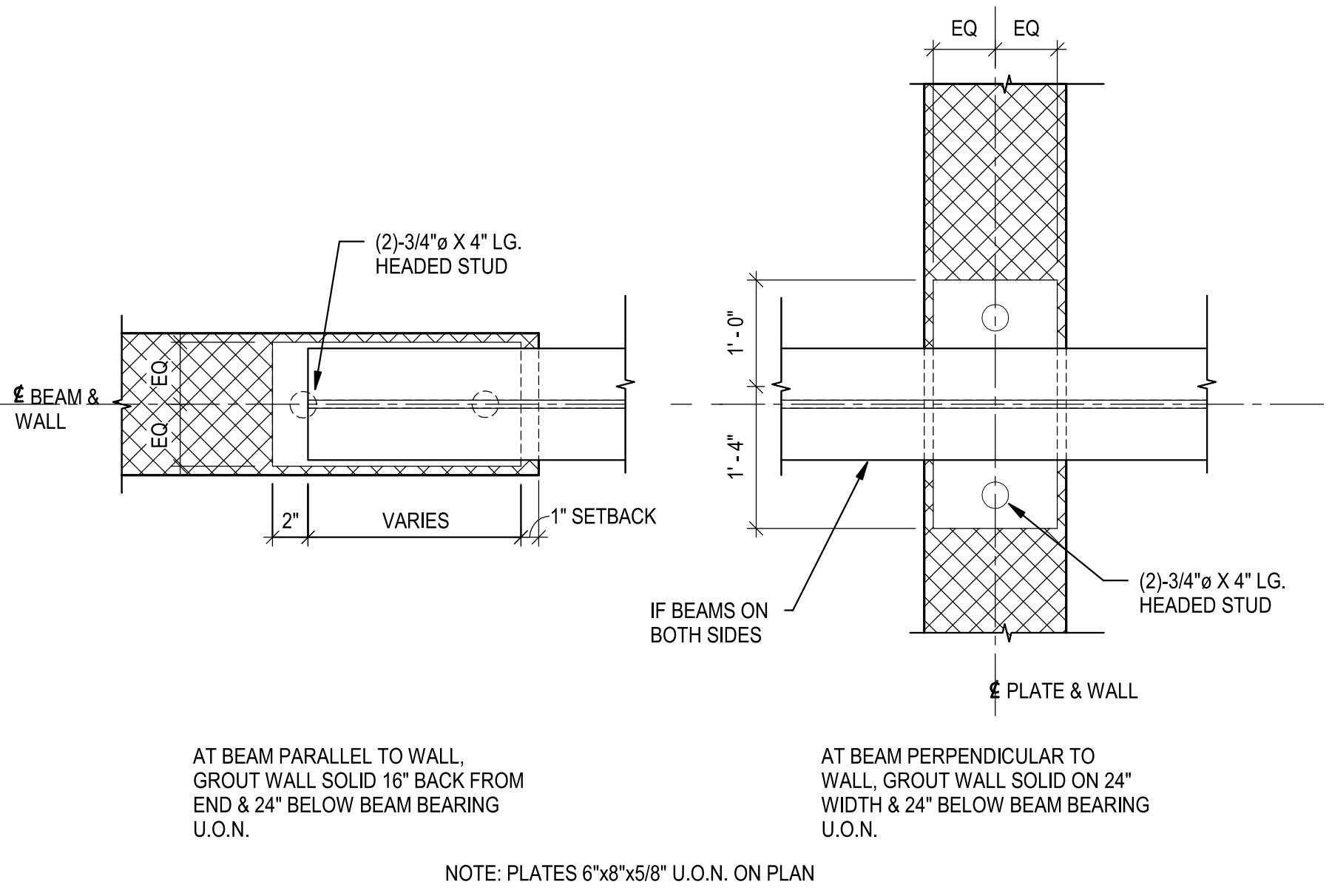
PROJECT NO: 16126
DRAWN BY: AL
CHECKED BY: AJ

TYPICAL DETAILS

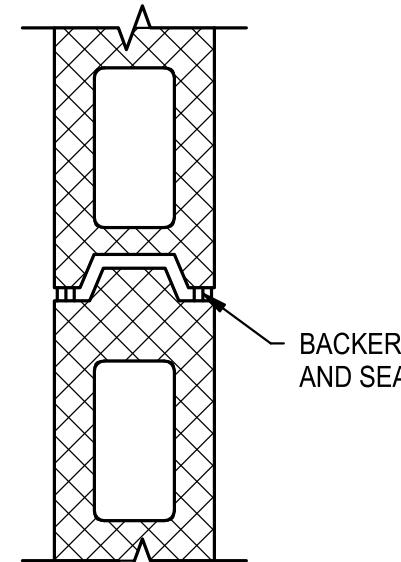
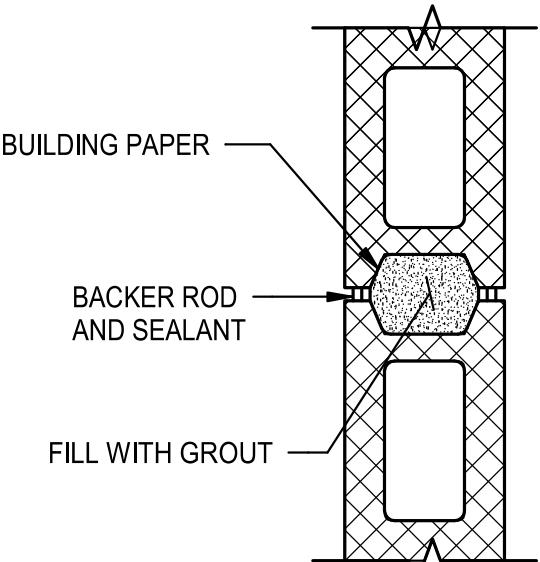
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EXPIRATION DATE: 02.15.2025

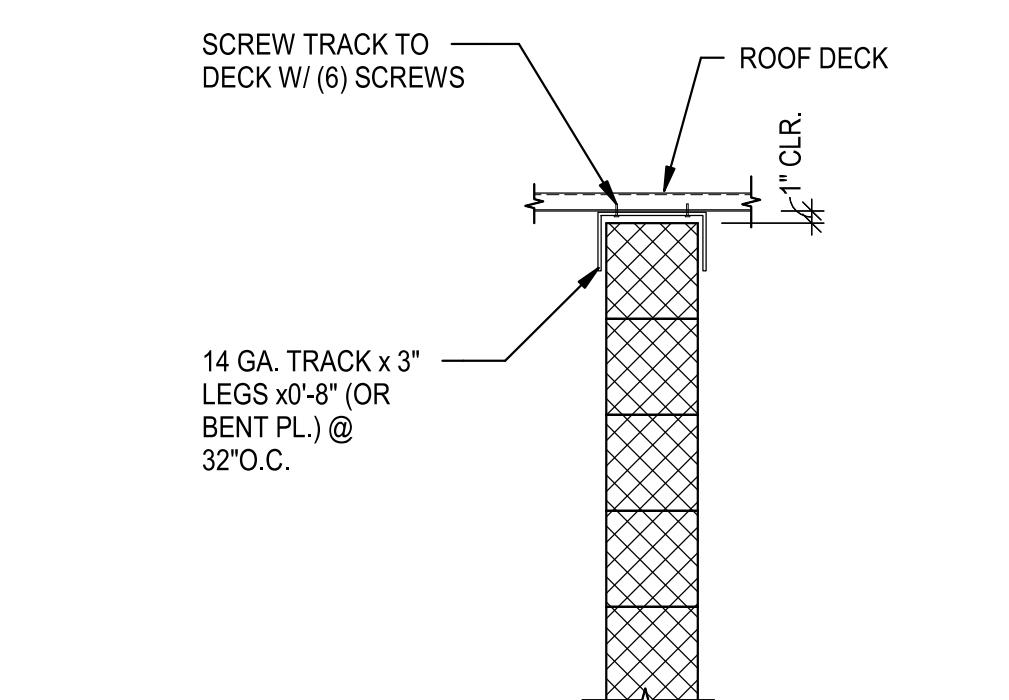




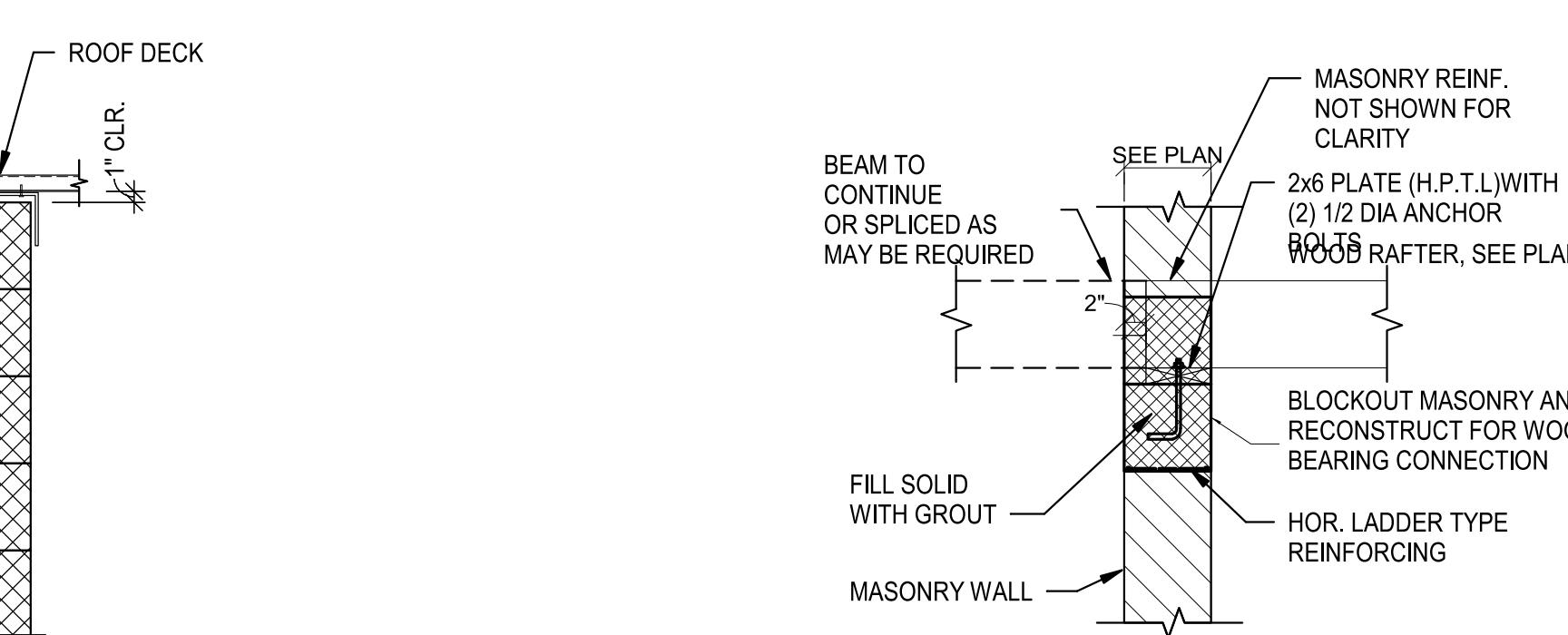
1 TYP. BEAM BEARING ON MASONRY WALL



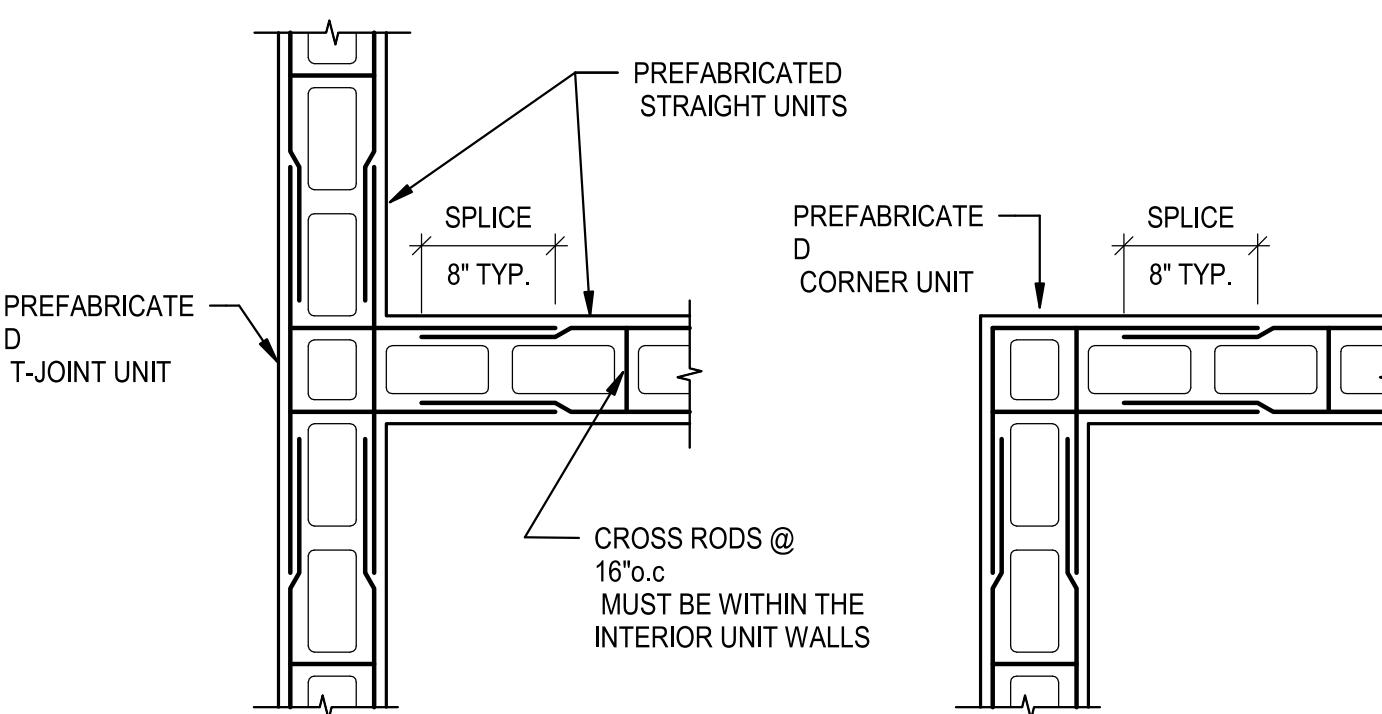
4 TYP. CONTROL JOINTS FOR MASONRY



5 TYP. MASONRY WALL BRACING AT TOP



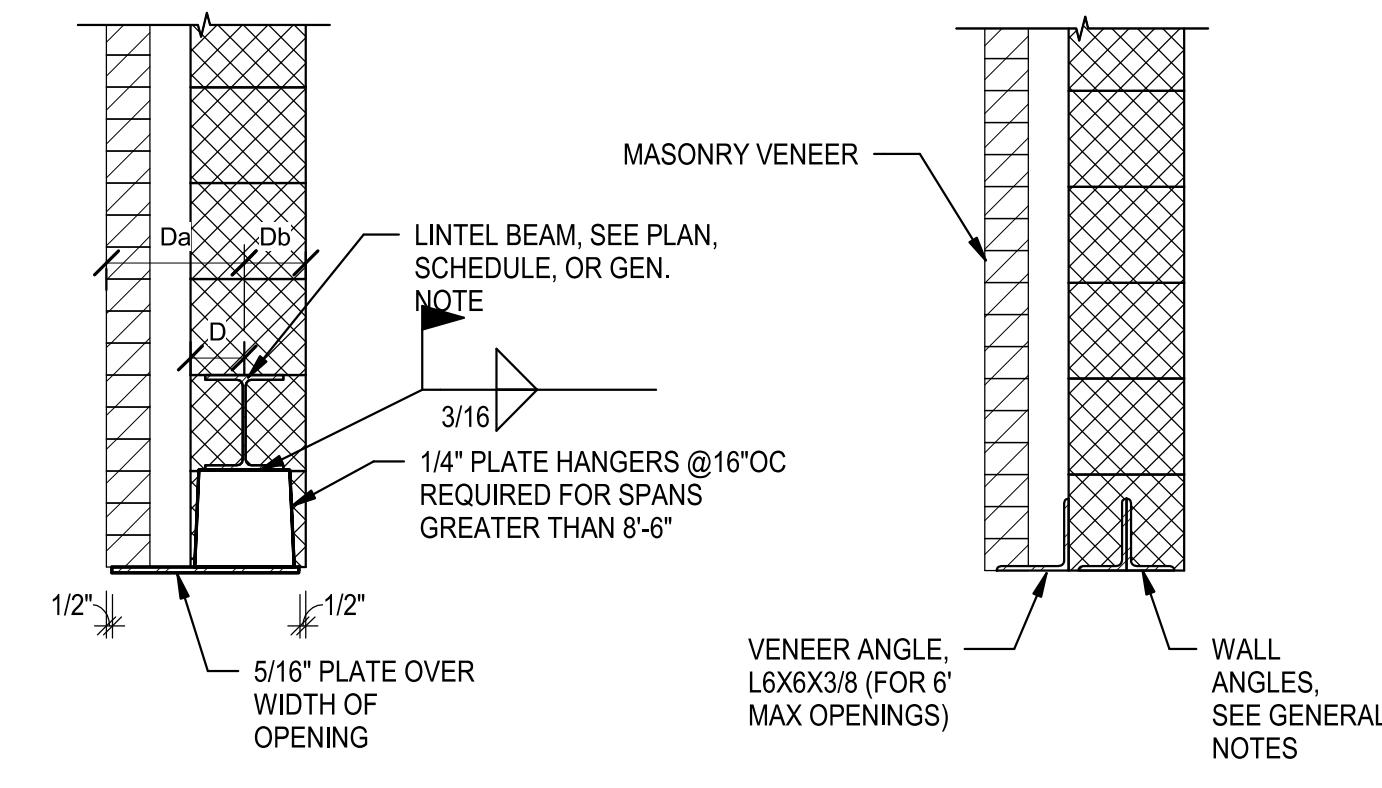
6 TYP. WOOD JOIST BEARING ON MASONRY



@ T-JOINT

@ CORNERS

NOTE: SEE SPECIFICATIONS FOR MORE INFORMATION.

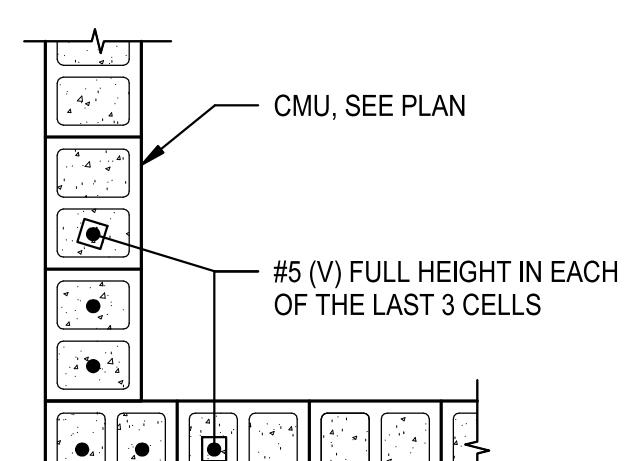


NONBEARING WALLS: $D = 1/2$ BEAM
FLANGE + 1/2", SUBJECT TO LIMITATION
THAT D_a MUST BE $> D_b$

BEARING WALLS: D = D_b , IF $D_a > 9"$
PROVIDE
4" x 3/8" VERTICAL STIFF. @ INSIDE FACE
OF
VENEFER

AT STEEL BEAM

AT MULTIPLE ANGLES



PROVIDE HORIZONTAL MASONRY REINFORCING AT 16" OC



PROJECT NO:	1612
DRAWN BY:	A
CHECKED BY:	A

DETAILS
SHEET
S-302

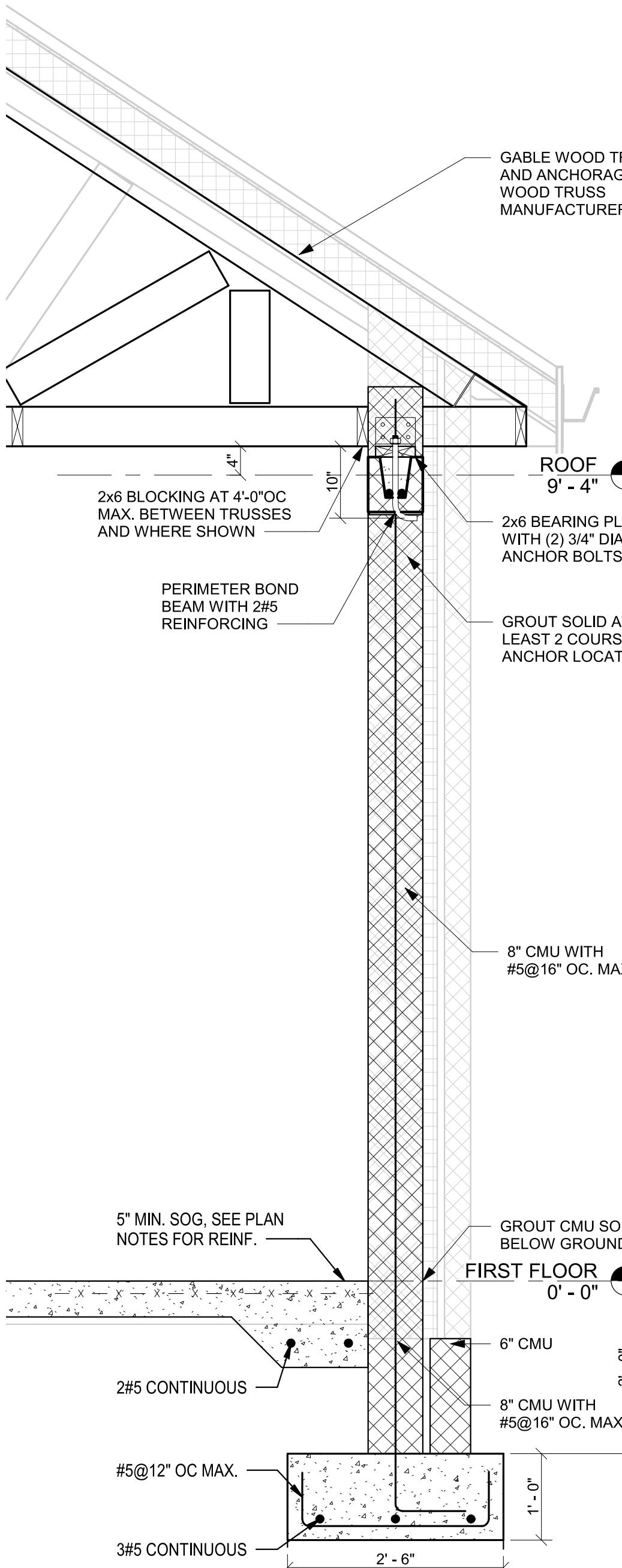
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3	08/08/25	BID SET

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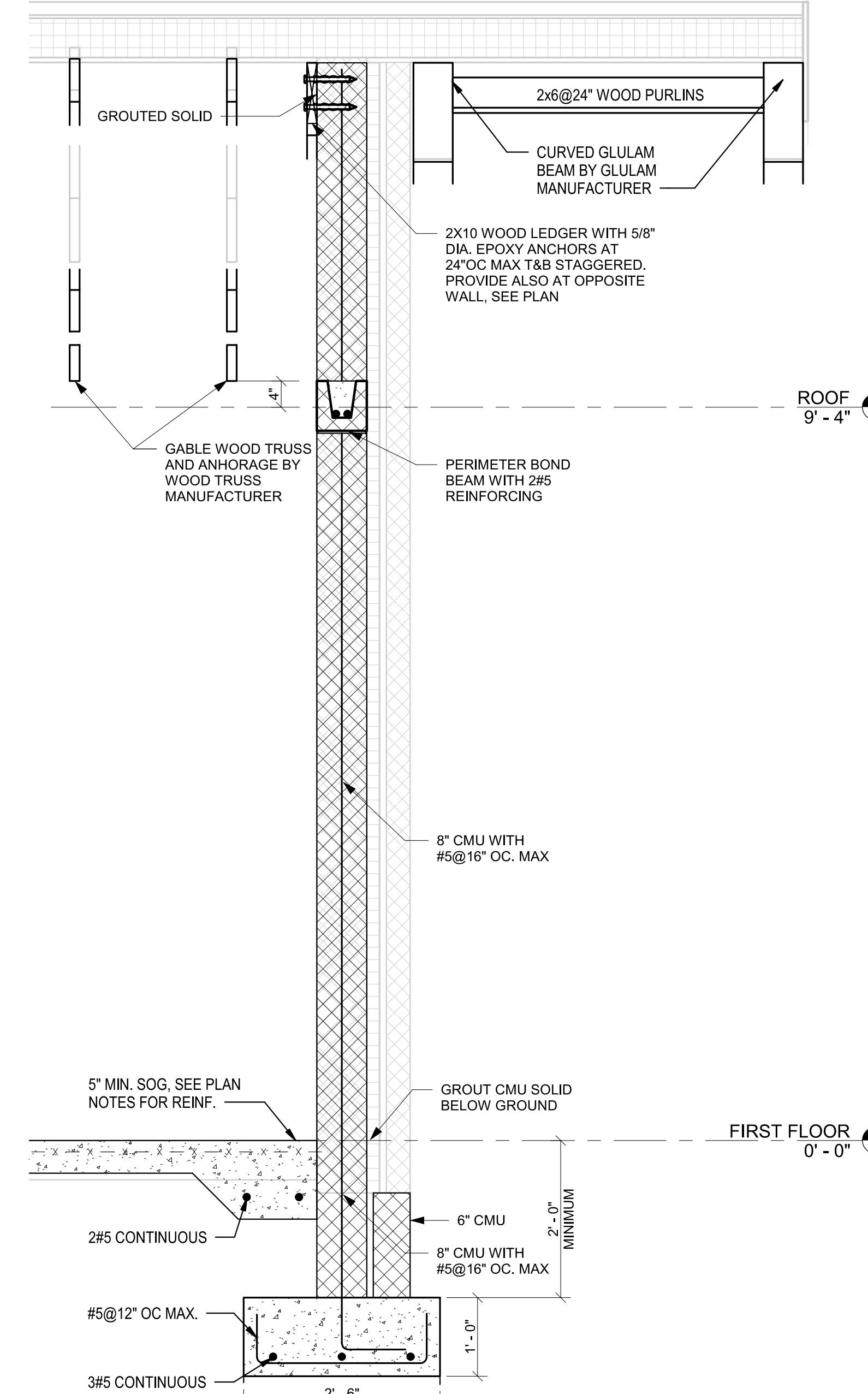
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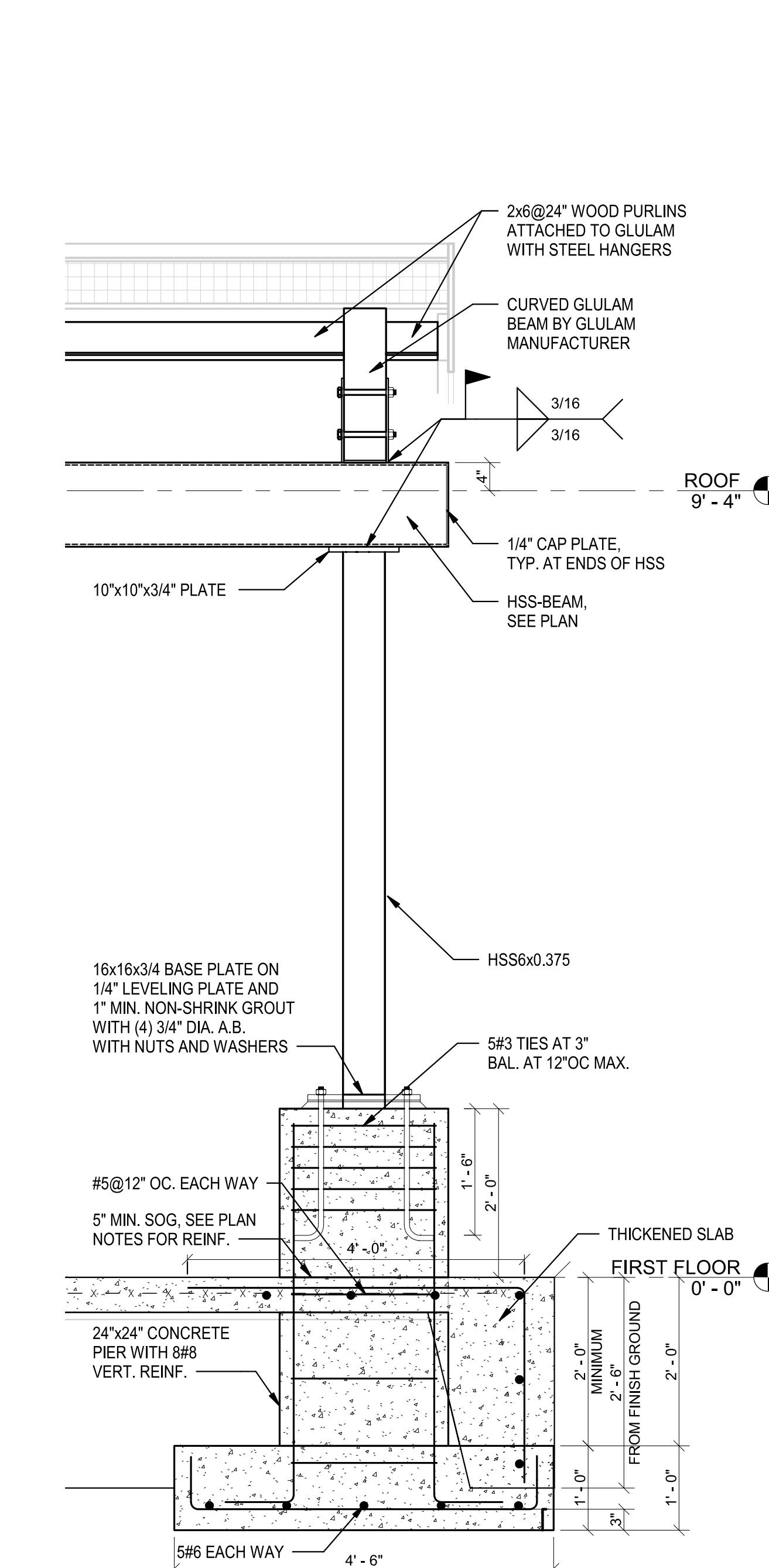
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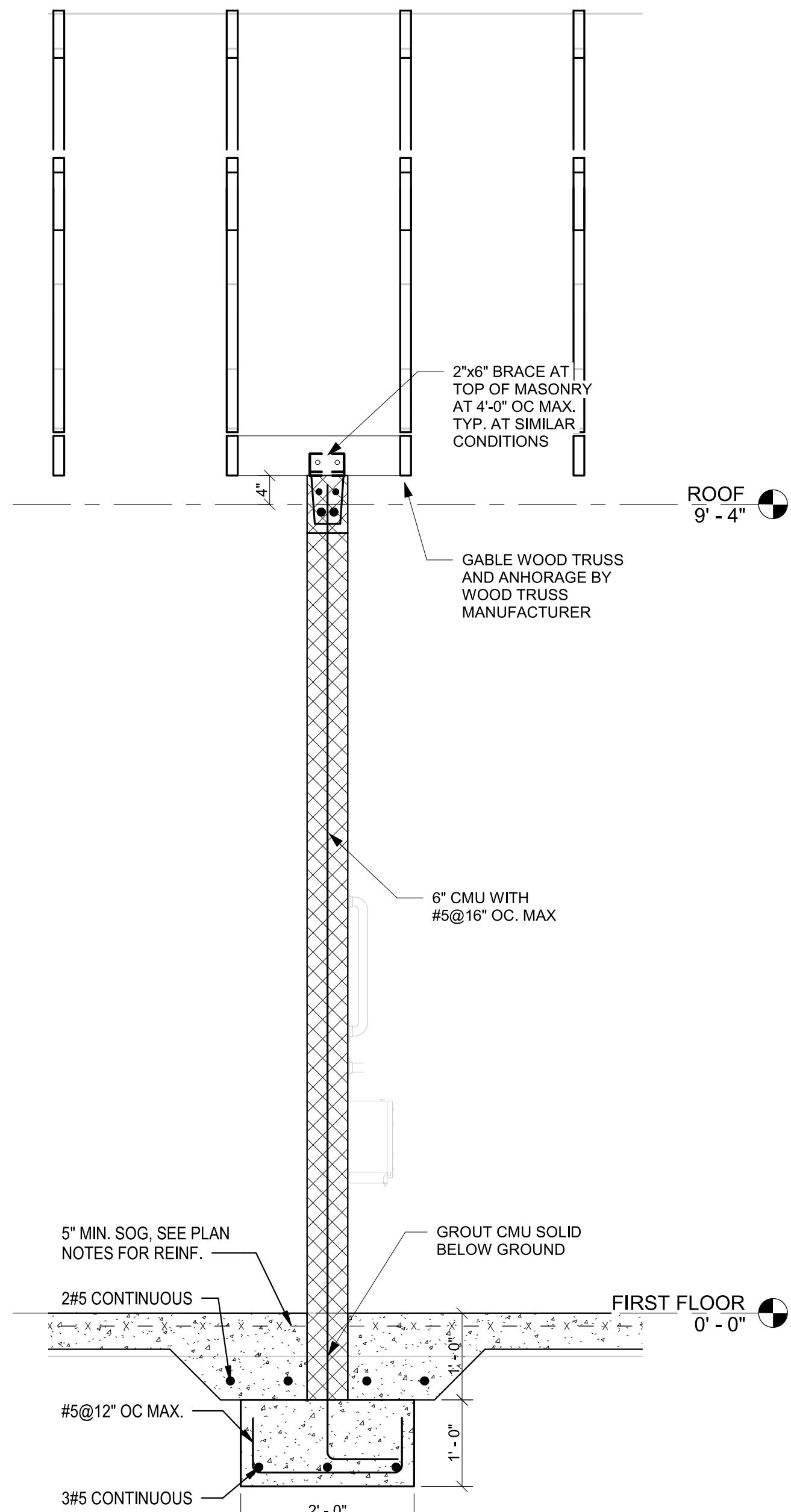
1 SECTION AT EXTERIOR WALL
SCALE: N.T.S.



2 SECTION AT ROOF CANTILEVER
SCALE: N.T.S.



3 SECTION AT CANOPY
SCALE: N.T.S.



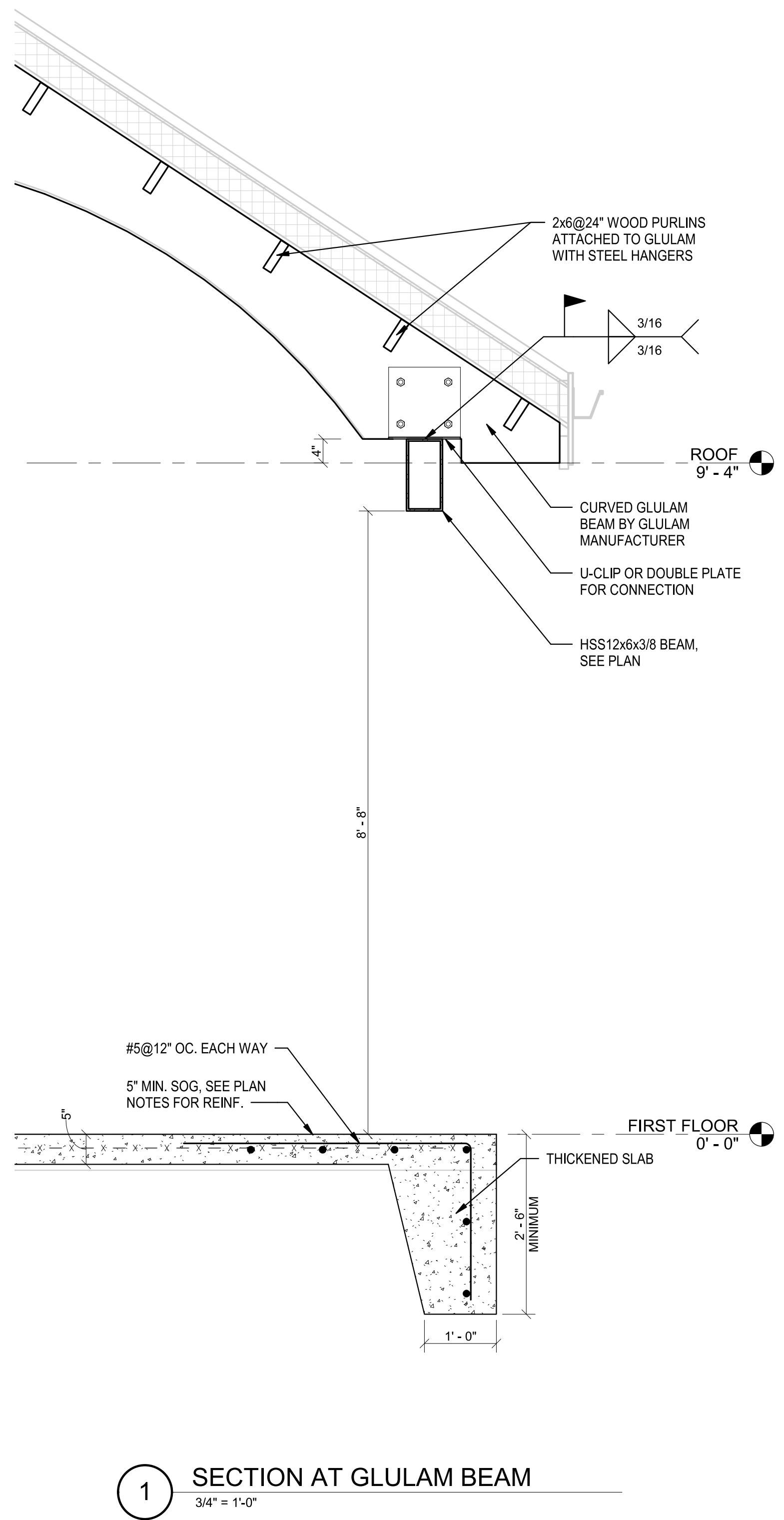
4 SECTION AT INTERIOR MASONRY WALL
SCALE: N.T.S.



PROJECT NO: 16126
DRAWN BY: AL
CHECKED BY: AJ
SECTIONS AND DETAILS

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EXPIRATION DATE: 02.15.2025

SHEET
S-401



1 SECTION AT GLULAM BEAM
3/4" = 1'0"

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1	08/31/21	50% CONSTRUCTION DOCUMENTS
2	12/05/21	100% CONSTRUCTION DOCUMENTS
3	08/08/25	BID SET

PROJECT NO: 16126
DRAWN BY: AL
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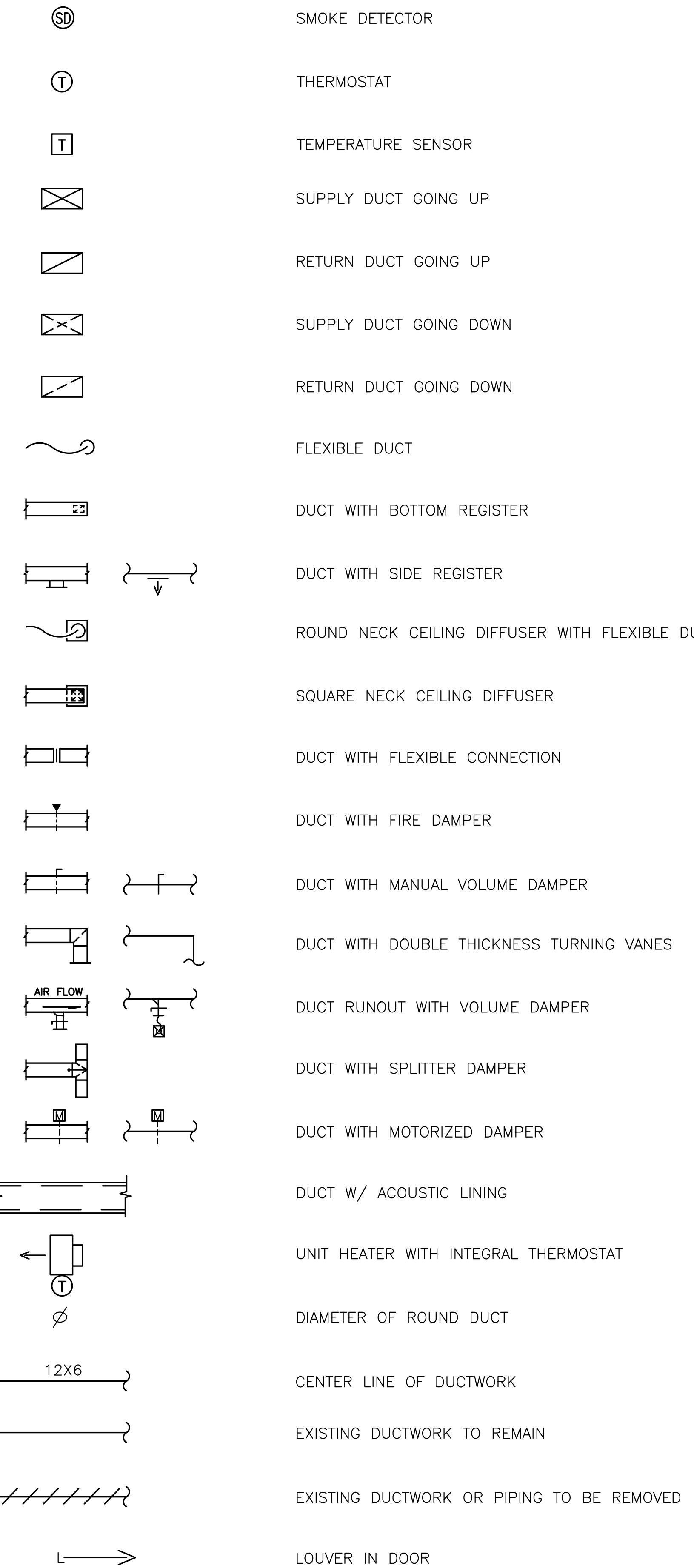
SECTIONS AND DETAILS

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NAME: ALAA JABER LICENSE NUMBER: 25342
EXPIRATION DATE: 02.15.2025

DUCTWORK SYMBOLS:



ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BD	BACKDRAFT DAMPER
CD	CEILING DIFFUSER
CG	CEILING GRILLE
CLG.	CEILING
DB	DRY BULB
DL	DOOR LOUVER
DU	DOOR UNDERCUT
DN	DOWN
EA.	EACH
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
ER	EXHAUST REGISTER
ESP	EXTERNAL TO AHU STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EX	EXISTING
FLR	FLOOR
KW	KILOWATT
HVU	HEATING AND VENTILATING UNIT
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
MAU	MAKE-UP AIR UNIT
MER	MECHANICAL EQUIPMENT ROOM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTORIZED DAMPER
NC	NOISE CRITERIA
N.I.C.	NOT IN CONTRACT
OA	OUTSIDE AIR
P.D.	PRESSURE DROP
RA	RETURN AIR
SA	SUPPLY AIR
SP	STATIC PRESSURE
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
UH	UNIT HEATER
VD	MANUAL VOLUME DAMPER

GENERAL NOTES

1. PROVIDE LABOR AND MATERIALS REQUIRED TO INSTALL, TEST AND PLACE INTO OPERATION ALL SYSTEMS INDICATED IN THE CONTRACT DOCUMENTS AND ACCORDING TO APPLICABLE CODES AND REGULATIONS, OWNER'S CRITERIA AND NORMAL INDUSTRY STANDARDS OF WORKMANSHIP AND QUALITY.
2. ALL INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES OF BALTIMORE CITY.
3. FOLLOW MANUFACTURES' RECOMMENDATIONS AND INSTRUCTION FOR INSTALLING, CONNECTING, AND ADJUSTING EQUIPMENT. PROVIDE A COPY OF SUCH INSTRUCTIONS AT THE EQUIPMENT DURING INSTALLATION.
4. MAINTAIN A COMPLETE SET OF THE MOST CURRENT APPROVED SHOP DRAWINGS, PRODUCT DATA AND APPLICABLE REVISIONS ON SITE.
5. THE CONTRACT DOCUMENT ESTABLISH SCOPE, MATERIALS AND QUALITY BUT NOT DETAILED INSTALLATION INSTRUCTIONS. DRAWINGS ARE DIAGRAMMATIC.
6. THE CONTRACTOR SHALL CHECK SPACE REQUIREMENTS WITH OTHER TRADES TO ENSURE THAT THE EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED WITHOUT ANY OBSTRUCTION TO THE OPERATIONAL ACTIVITIES IN THAT SPACE.
7. INSTALL MECHANICAL EQUIPMENT TO PERMIT REMOVAL OF COMPONENTS AND TO MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.
8. IN CASES OF DOUBT AS TO THE WORK INTENDED, OR IN THE EVENT OF THE NEED FOR EXPLANATION THEREOF, REQUEST SUPPLEMENTARY INSTRUCTIONS FROM THE ARCHITECT.
9. PROTECT THE WORK, EQUIPMENT AND MATERIALS OF OTHER TRADES FROM DAMAGE BY WORK OR WORKER OF THIS TRADE, AND CORRECT DAMAGE CAUSED WITHOUT ADDITIONAL COST TO THE OWNER.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, MATERIAL AND EQUIPMENT UNTIL FINALLY INSPECTED, TESTED AND ACCEPTED.
11. ALL DUCT SIZES INDICATE CLEAR INSIDE DIMENSIONS.
12. UNLESS OTHERWISE INDICATED, ALL SUPPLY, RETURN, AND EXHAUST AIR DUCTWORK SHALL BE MADE OF LOW PRESSURE DUCT CONSTRUCTION IN ACCORDANCE WITH THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) STANDARD.
13. ALL DUCT RUNOUTS SHALL BE PROVIDED WITH MANUAL DAMPER.
14. UNLESS OTHERWISE INDICATED, ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED WITH 1-1/2" THICK DUCT IN ACCORDANCE WITH IECC-2018 EXCEPT FOR SOUND-LINED DUCTWORK.
15. BALANCE AIR DIFFUSERS AND REGISTERS TO PROVIDE THE CFM INDICATED.

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DRAWN BY: M
CHECKED BY: K

**MECHANICAL
LEGENDS AND
GENERAL NOTES**

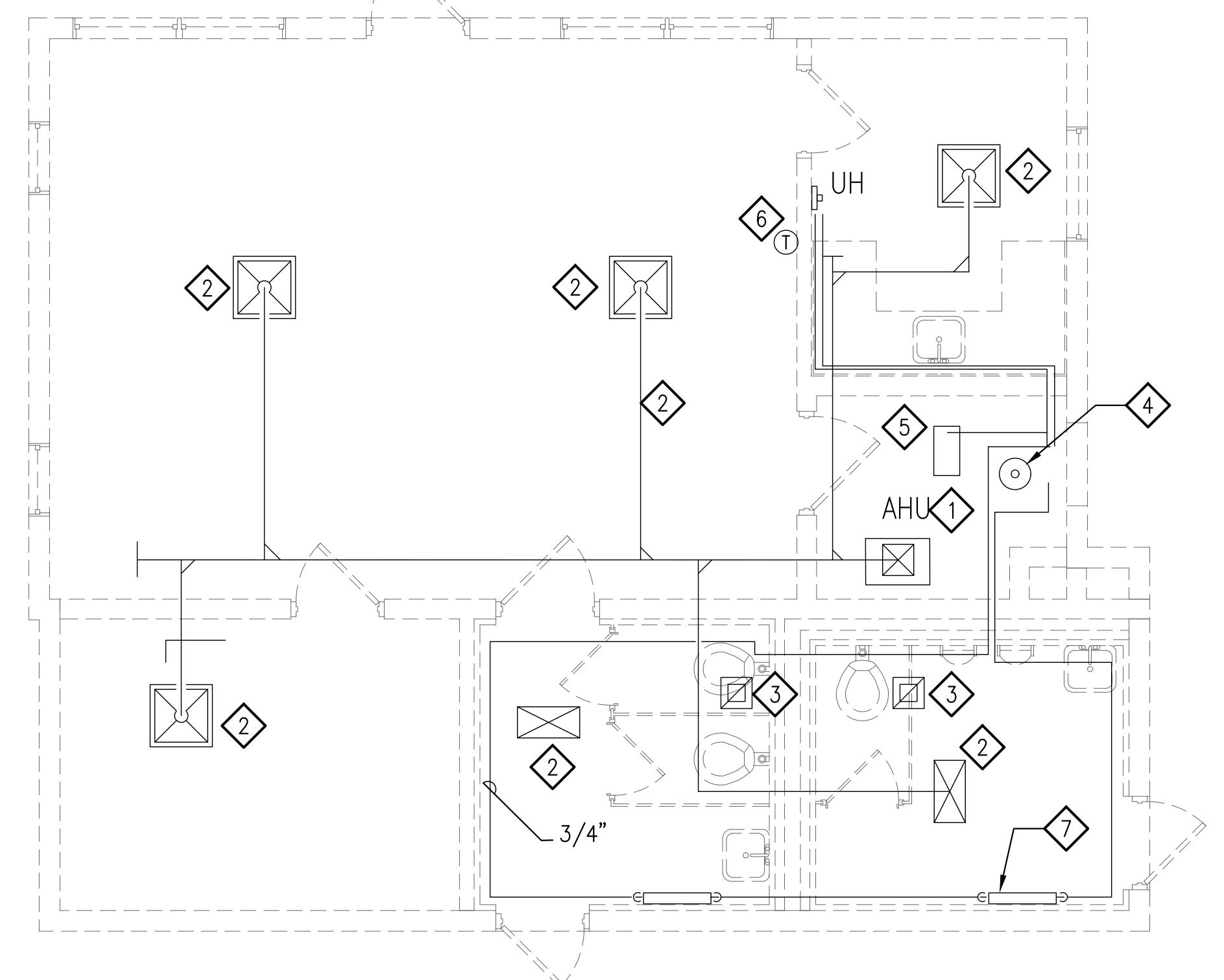
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M-001

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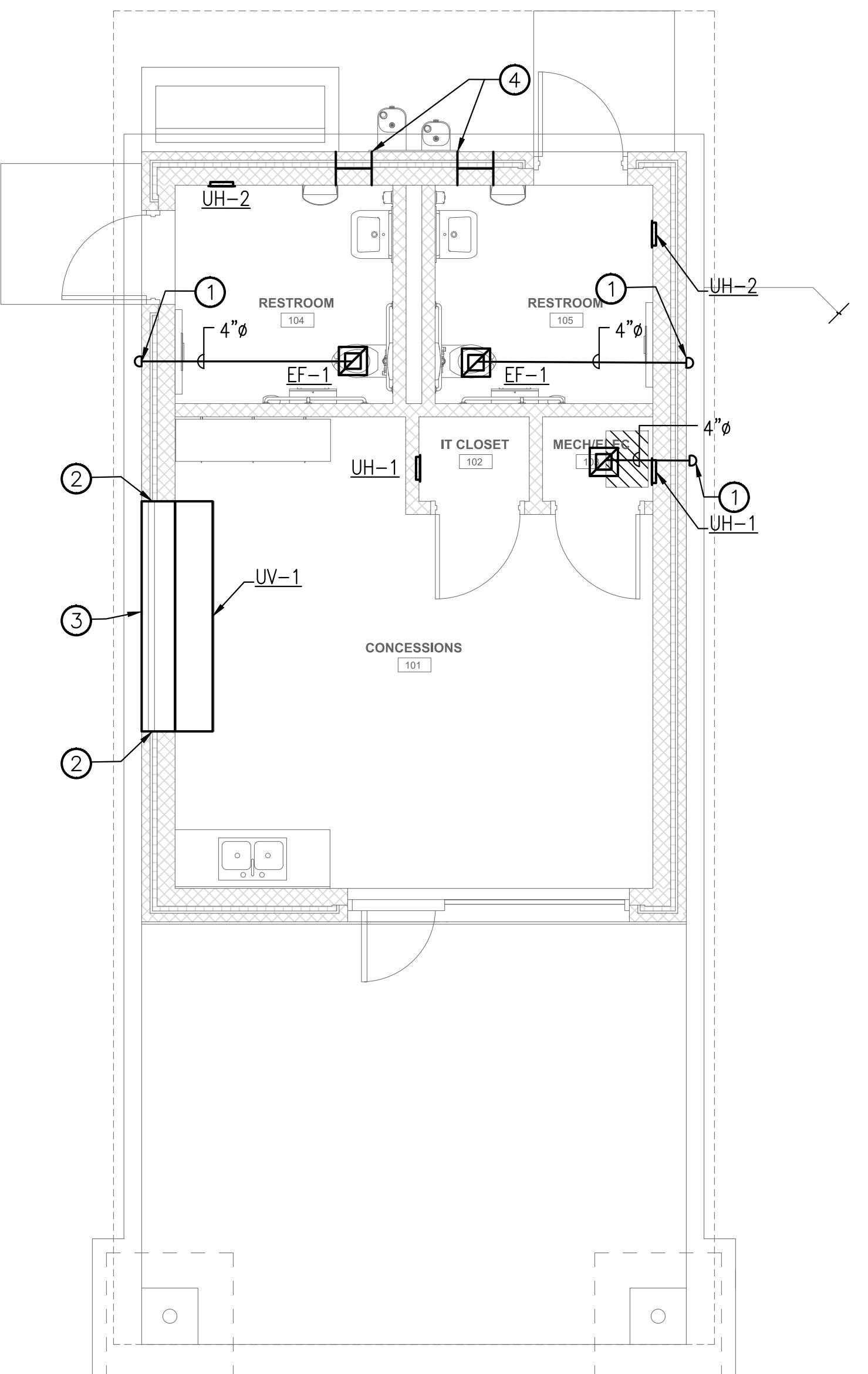
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1 MECHANICAL DEMOLITION PLAN

M-101

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



2 MECHANICAL NEW WORK PLAN

M-101

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

GENERAL NOTES

1. SEE MECHANICAL COVER SHEET FOR SYMBOLS, CONVENTIONS, ABBREVIATIONS, AND GENERAL NOTES.

MECHANICAL DEMOLITION NOTES

- 1 DISCONNECT AND REMOVE AIR HANDLING UNIT/GAS FURNACE AND FLUE PIPE.
- 2 DISCONNECT AND REMOVE ALL SUPPLY AND RETURN AIR DUCTWORK AND AIR DEVICES.
- 3 DISCONNECT AND REMOVE CEILING FAN.
- 4 DISCONNECT AND REMOVE GAS FIRED WATER HEATER AND ASSOCIATED PIPING.
- 5 DISCONNECT AND REMOVE EXPANSION TANK AND ASSOCIATED PIPING.
- 6 DISCONNECT AND REMOVE THERMOSTAT AND WIRING.
- 7 DISCONNECT AND REMOVE CONVECTOR AND ASSOCIATED PIPING.

MECHANICAL NEW WORK NOTES

- 1 PROVIDE WALL CAP W/BIRD SCREEN.
- 2 PROVIDE MANUFACTURER RECOMMENDED WALL SLEEVE.
- 3 PROVIDE MANUFACTURER RECOMMENDED WALL LOUVER.
- 4 PROVIDE 8"X8" METAL WALL LOUVER IN COORDINATION WITH ARCHITECTURAL PLANS AND ELEVATIONS. PROVIDE BIRD SCREEN ON LOUVERS.



GRAPHIC SCALE



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

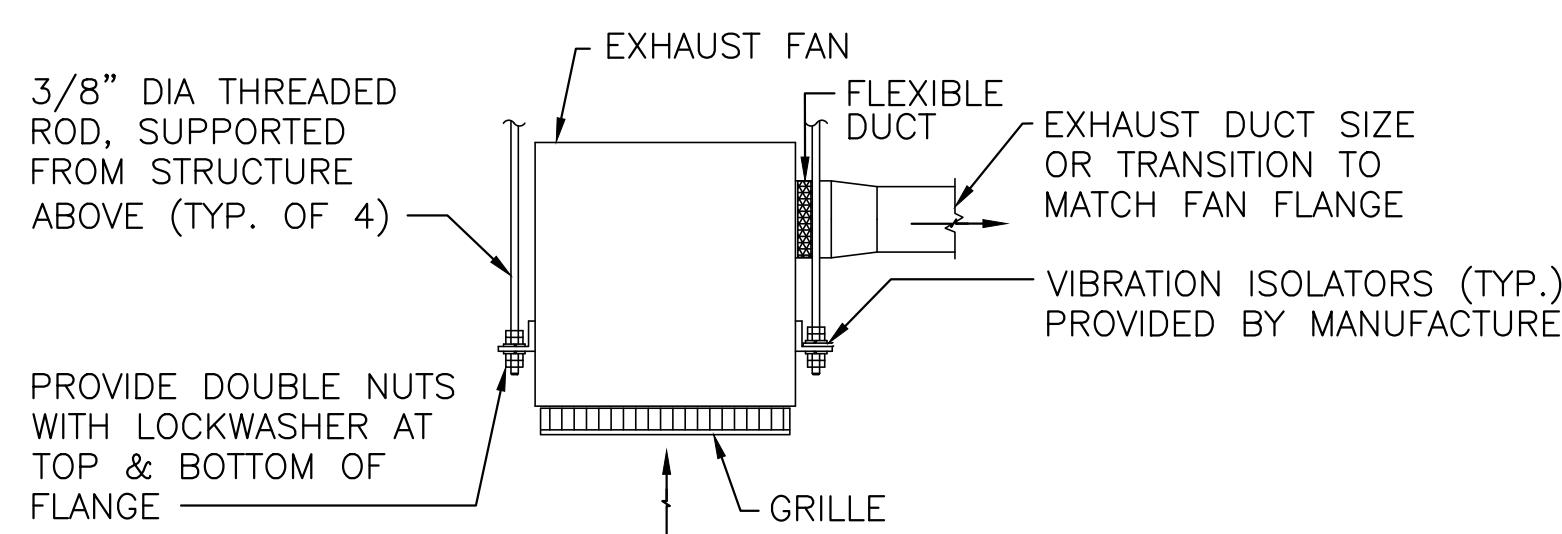
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GRAPHIC SCALE MUST BE USED.

PROJECT NO: 20120
DRAWN BY: MH
CHECKED BY: KS

MECHANICAL
PLANS

SHEET
M-101

ELECTRIC CABINET/UNIT HEATER SCHEDULE													
UNIT No.	LOCATION	OUTPUT CAP.			DIMENSIONS			ELECTRICAL DATA			WEIGHT (LBS)	BASIS OF DESIGN	REMARKS
		CFM	MBH	KW	WIDTH (IN)	DEPTH (IN)	HEIGHT (IN)	VOLT	PHASE	HERTZ			
UH-1	MECH/STORAGE	65	1.706	0.50	10.0	4.0	12.5	120	1	60	20	QMARK CWH1101DS	WALL MOUNTED
UH-2	RESTROOMS	100	2.6	0.75	15.0	4.0	7.0	120	1	60	6	MARKEL E4002TA	SEMI-RECESSED IN WALL





EXHAUST FAN CEILING TYPE

M-102 NO SCALE

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**MECHANICAL
SCHEDULE AND
DETAILS**

SHEET

M-102

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
◆	DIAMOND WITH NUMBER – DEMOLITION NOTE.	pbx-xx	ELECTRICAL HOME RUN. "PBX" INDICATES PANEL DESIGNATION. "XX" INDICATES CIRCUIT NUMBER.
○	CIRCLE WITH NUMBER – NEW WORK NOTE.	sm,sm	SURFACE MOUNTED, FLUSH MOUNTED. MOTOR RATED DISCONNECT SWITCH.
\$	IN-WALL MANUAL-ON, TIMED OFF SWITCH (COUNTDOWN SWITCH). BOD: LUTRON MA-T51MN-BL	sh ₂₀ dh ₃₀	FUSED, UNFUSED. DISCONNECT. TOP NUMBER INDICATES DISCONNECT RATING. BOTTOM NUMBER INDICATES FUSE RATING.
\$ _{DUAL}	DUAL-CIRCUIT IN-WALL DUAL-TECHNOLOGY OCCUPANCY SENSOR-SWITCH FOR BI-LEVEL SWITCHING. "a" SET TO AUTO-ON/AUTO-OFF, "b" SET TO MANUAL-ON/AUTO-OFF. BOD: LUTRON MS-B202-BL	bx ₃₀	ENCLOSED CIRCUIT BREAKER. NUMBER INDICATES CIRCUIT BREAKER RATING.
□	2'X2' CEILING SURFACE MOUNT LED FIXTURE: STAR CLEAN – SCS-22-HC/OC-L2401C-A-UN 3125 NOMINAL LUMENS, 80+ CRI, 4000K CCT.	m	ELECTRICAL SERVICE METER
h	2' NARROW STRIP, CEILING/SLAB SURFACE MOUNTED: H.E. WILLIAMS – 75-2-L30/840. 3000 NOMINAL LUMENS, 80+ CRI, 4000K CCT.	■	120/208V PANEL. SIZED TO SCALE.
□	EMERGENCY LIGHTING UNIT WITH INTEGRAL BATTERY, 7' AFF WALL MOUNTED: LIGHT ALARMS – LSCN-EM. PROVIDES 1FC AVERAGE. FIELD SELECTABLE – SET TO "EMERGENCY LIGHTING".	○, ○	WALL, SURFACE LOCATED. – DIRECT CONNECTION TO EQUIPMENT. SEE OTHER DISCIPLINES FOR DETAILS.
□	EXTERIOR WALL PACK WITH INTEGRAL BATTERY BATTERY AND PHOTOCELL, 8' AFF/AFC: LIGHT ALARMS – INF-ACSD-DB-CW	○	DUPLEX NEMA-5-20R RECEPTACLE. 18" AFF UON. BLACK.
□	EXTERIOR WALL PACK WITH INTEGRAL PHOTOCELL, 8' AFF/AFC: LIGHT ALARMS INF-ACSD-DB-CW	○	DOUBLE DUPLEX (QUADRUPLEX) NEMA-5-20R RECEPTACLE. 18" AFF UON. BLACK.
○	EXTERIOR PENDANT LIGHT FIXTURE. 10' AFC: RAB LIGHTING – CDLED6PS-20W-80D940-Z, 1,856 NOMINAL LUMENS, 90+ CRI, 4000K CCT. WIRED TO NORTH FACING DUSK-TO-DAWN PHOTOCELL.	○	DUPLEX NEMA-5-20R RECEPTACLE WITH GFCI PROTECTION. BLACK. 18" AFF UON.
○ _{D2D}	WET/OUTDOOR RATED DUSK-TO-DAWN EXTERIOR PHOTOCELL SENSOR SWITCH.	wp○	DUPLEX NEMA-5-20R RECEPTACLE WITH GFCI PROTECTION AND WEATHER PROOF WHILE IN USE TYPE. BLACK. 18" AFF UON.
○	NEW SINGLE STATION INTERLINKED SMOKE ALARM – PHOTOELECTRIC.	○	SIMPLEX NEMA-5-20R RECEPTACLE. 18" AFF UON. BLACK.
▽	WALL MOUNTED DATA ROUGH-IN WITH 3/4" CONDUIT STUB-UP AND TURN-OUT ABOVE CEILING. PROVIDE INDICATED # OF CAT6 DROP HOME-RUNS BACK TO IT CLOSET.	○ ^{L6-15R}	SPECIAL USE RECEPTACLE. BLACK. REFER TO SYMBOL SUPERSCRIPT FOR NEMA TYPE (EXAMPLE: L6-15R).
▽ _{ISC}	WALL MTD ROUGH-IN FOR FUTURE INDOOR POE/IP SECURITY CAMERA WITH 3/4" CONDUIT STUB-UP AND TURN-OUT ABOVE CEILING, ONE (1) CAT6 DATA HOME-RUN BACK TO IT CLOSET.		
▽ _{ESC}	WALL MTD ROUGH-IN WEATHER PROOF J-BOX FOR FUTURE EXTERIOR POE/IP SECURITY CAMERA. PROVIDE 3/4" CONDUIT STUB-THROUGH WALL, ONE (1) CAT6 DATA HOME-RUN BACK TO IT CLOSET.		

ELECTRICAL ABBREVIATIONS

A	AMPERES	G, GND	GROUND	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
AIC	AMPERE INTERRUPTING CAPACITY	GFCI,GFI	GROUND FAULT CIRCUIT INTERRUPTER		
ATS	AUTOMATIC TRANSFER SWITCH	HP	HORSEPOWER	P	POLE
AWG	AMERICAN WIRE GAUGE	IBC	INTERNATIONAL BUILDING CODE	PB	PULL BOX
BLR	BELLOW ROOF	JB	JUNCTION BOX	PSI	POUND-FORCE PER SQUARE INCH
&	AND	KAIC	KILOAMPERE INTERRUPTING CAPACITY	PVC	POLYVINYL CHLORIDE CONDUIT
C	CONDUIT	KVA	KILOVOLT-AMPERES	φ, PH	PHASE
CB	CIRCUIT BREAKER	KW	KILOWATTS	RECEPT	RECEPTACLE
CCT	CIRCUIT	L	LONG	RM	ROOM
CMU	CONCRETE MASONRY UNIT	LM	LUMENS	RX	REMOVE EXISTING
CTR	CENTER	LV	LOW VOLTAGE	TEL	TELECOMMUNICATIONS
CU	COPPER	MCA	MINIMUM CIRCUIT AMPERES	TYP	TYPICAL
DIA	DIAMETER	MCB	MAIN CIRCUIT BREAKER	UC	UNDERCOUNTER
DISC	DISCONNECT	MHT	MOUNTING HEIGHT	UFAS	UNIFORM FEDERAL ACCESSIBILITY STANDARDS
DIST	DISTRIBUTION	MIN	MINIMUM	UG	UNDERGROUND
DWG(S)	DRAWING(S)	MLO	MAIN LUG ONLY	UL	UNDERWRITERS' LABORATORIES, INC.
ECB	ENCLOSED CIRCUIT BREAKER	MOP	MINIMUM OVERCURRENT PROTECTION	UON	UNLESS OTHERWISE NOTED
EF	EXHAUST FAN	MTD	MOUNTED	V	VOLTS
ELEC	ELECTRICAL	N	NEUTRAL, NORMAL	W	WATTS, WIDE
EMT	ELECTRICAL METALLIC TUBING	NEC	NATIONAL ELECTRICAL CODE	W/	WITH
EPA	ENVIRONMENTAL PROTECTION AGENCY	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	W/O	WITHOUT
EX, ETR	EXISTING, EXISTING TO REMAIN	NO., #	NUMBER	WP	WEATHERPROOF
FACP	FIRE ALARM CONTROL PANEL	OC	ON CENTER	XFMR	TRANSFORMER
FLA	FULL LOAD AMPERES	OCPD	OVERCURRENT PROTECTIVE DEVICE		

ELECTRICAL CONVENTIONS

EXAMPLE	DESCRIPTION
□ \$ □ ○	ITEMS THAT ARE DASHED ARE BEING DEMOLISHED UNLESS OTHERWISE NOTED.
□ ○ J M ▽	ITEMS THAT ARE SOLID AND LIGHT ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
□ \$ □ ○	ITEMS THAT ARE SOLID AND DARK ARE NEW TO BE INSTALLED UNLESS OTHERWISE NOTED.
□ ○ J M ▽	RECEPTACLE WITH HORIZONTAL LINE THRU INDICATES 6-8" ABOVE COUNTER MOUNTING HEIGHT. COORDINATE WITH ARCHITECTURAL ELEVATIONS. 48" AFF IF THERE IS NO COUNTER.
○ ○ ○ ○	FLOATING RECEPTACLE WITH LINE THRU AT BOTTOM INDICATES RECEPTACLE DIRECTLY BELOW ANOTHER RECEPTACLE.
○ ^{xx} \$ ^{xx} ▽ ^{xx}	+XX INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR IN INCHES TO BOTTOM OF WALL MOUNTED DEVICE.
A E X b c	UPPERCASE LETTERS INDICATE FIXTURE TYPE DESIGNATION. IF SHOWN, LOWERCASE LETTERS INDICATE ASSOCIATED SWITCHING/CONTROLS.
A E X b c	EXIT SIGNS, EXTERIOR EGRESS, & ALL FIXTURES WITH A FILLED DOT SHALL ILLUMINATE DURING A POWER OUTAGE.

ELECTRICAL GENERAL DEMOLITION NOTES

- A. INFORMATION SHOWN ON THESE DRAWINGS PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. WHERE EQUIPMENT IS NOTED "DISCONNECT" OR "REMOVE", REMOVE ASSOCIATED WIRE/CABLE AND CONDUIT BACK TO THE SOURCE UNLESS OTHERWISE NOTED.
- C. REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE/CABLE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
- D. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, SHALL BE MADE CONTINUOUS. WIRING FOR CONTINUITY SHALL BE RUN CONCEALED.
- E. WHERE DEVICES ARE TO BE REMOVED AND RELOCATED/REINSTALLED, EXTEND EXISTING WIRE AND CONDUIT TO NEW LOCATIONS AS REQUIRED.
- F. FOR DEVICES REMOVED AND BOXES TO REMAIN IN BLOCK OR CONCRETE WALLS, PROVIDE STAINLESS STEEL BLANK OFF COVER PLATES.
- G. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE RELATED ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- H. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN DASHED SHALL BE REMOVED AND ITEMS SHOWN LIGHT SOLID SHALL REMAIN.
- I. THE EXISTING FACILITY WILL REMAIN IN OPERATION DURING RENOVATION. ALL INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE PROJECT MANAGER TO MINIMIZE DISRUPTION.

ELECTRICAL GENERAL NOTES

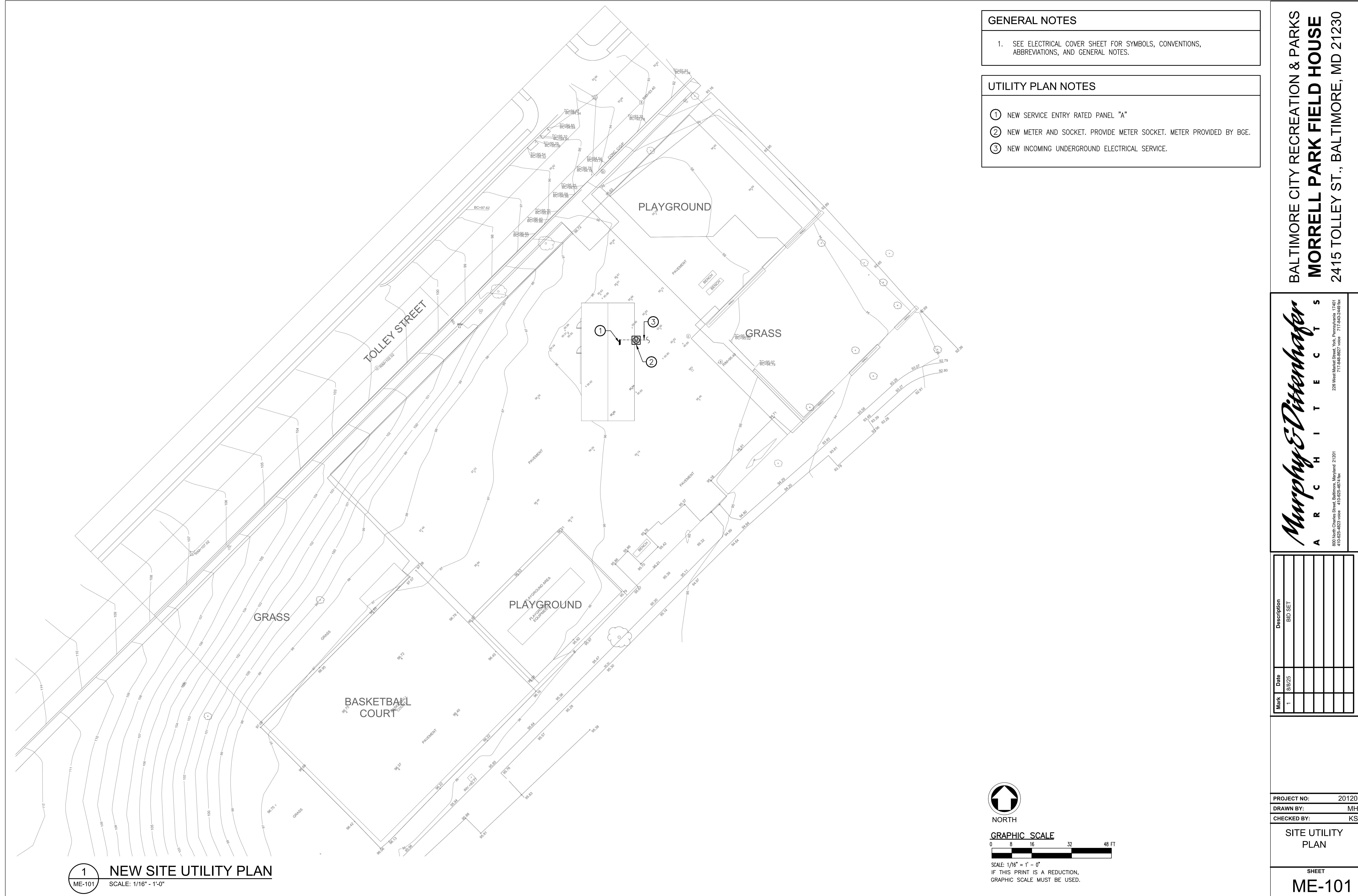
1. ALL ELECTRICAL WORK IS NEW UNLESS OTHERWISE NOTED, AND SHALL BE INSTALLED IN ACCORDANCE W/ THE CURRENT BUILDING CODES (I.E., NEC, NFPA, OSHA, INTERNATIONAL BUILDING CODE) ADOPTED BY BALTIMORE CITY, THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ). ELECTRICAL INSTALLATION SHALL COMPLY WITH THE LOCAL COUNTY CODES IN EFFECT DURING THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ELECTRICAL EQUIPMENT AND CONNECTIONS INCLUDING CONTROL WIRING IN CONDUIT SYSTEM TO OTHER DISCIPLINES' EQUIPMENT AS INDICATED AND REQUIRED FOR A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM.
2. CONDUCTORS FOR POWER SHALL BE COPPER MINIMUM #12 THHN/THWN, INSTALLED IN CONDUITS, UON, (MINIMUM 3/4", UON). RUN ALL EMT CONDUITS CONCEALED IN WALL OR OTHER EXPOSED STRUCTURE UNLESS OTHERWISE NOTED FOR SURFACE MOUNTED DEVICES/EQUIPMENT. PROVIDE PULL WIRE FOR ALL EMPTY CONDUITS. CONDUIT FOR LOW ENERGY, CONTROL AND SIGNAL CIRCUITS SHALL BE MINIMUM 3/4".
3. MANUFACTURER AND CATALOG NUMBERS ARE INDICATED AS "BASIS OF DESIGN" ONLY AND SHALL NOT PRECLUDE THE USE OF OTHER MANUFACTURER'S PRODUCTS PROVIDED THEY ARE APPROVED EQUIVALENT TO THOSE SPECIFIED.
4. ALL BRANCH CIRCUITS SHALL CONTAIN WIRING INCLUDING AN INSULATED (GREEN) GROUNDING CONDUCTOR IN A CONDUIT, EACH SIZED PER NEC. ALL CONDUCTOR SIZES ARE BASED ON THE USE OF "THHN/THWN" INSULATION AND EQUIPMENT/MANUFACTURER SELECTED DURING THE DESIGN. IN THE EVENT A DIFFERENT INSULATION/WIRES SHOULD BE USED TO ACCOMMODATE MANUFACTURER'S REQUIREMENTS/DIFFERENT EQUIPMENT PROVIDED DURING THE CONSTRUCTION, OCPD AND CONDUCTOR/CONDUIT SIZES SHALL BE ADJUSTED ACCORDING TO NEC, AND PROVIDED AT NO ADDITIONAL COST.
5. DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS, JB'S, WIRE TROUGHS, PULL BOXES OR OTHER REQUIRED ELEMENTS FOR PROPER INSTALLATION OF THE WORK. ALL NECESSARY MATERIALS NEED TO FULFILL THE PROJECT REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL COST.
6. ALL CIRCUITRY SHOWN IN THE DRAWINGS ARE INTENDED FOR DESIGN PURPOSE ONLY. THE CONTRACTOR SHALL VERIFY IN THE FIELD THE MOST SUITABLE ROUTES AS REQUIRED.
7. WORK SHALL BE CARRIED OUT IN PHASE W/ OTHER DISCIPLINES. COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING CONTRACT DOCUMENTS IN TERMS OF EQUIPMENT COMPATIBILITY AND MOUNTING ARRANGEMENT PRIOR TO INSTALLATION.
8. THE LOCATIONS OF SWITCHES, RECEPTACLES, LIGHTING FIXTURES, OUTLETS, AND OTHER EQUIPMENT ARE APPROXIMATE. COORDINATE AND INSTALL THESE ITEMS SO AS TO ELIMINATE INTERFERENCE W/ DUCTS, PIPES AND ALL OTHER EQUIPMENT. VERIFY DOOR SWINGS SO THAT LIGHT SWITCHES ARE PROPERLY LOCATED. ADJUST MHT'S AND PROVIDE APPROPRIATE MOUNTING HARDWARE AS REQUIRED AT NO ADDITIONAL COST.
9. PROVIDE EQUIPMENT GROUNDING AND/OR BONDING JUMPER TO ALL EQUIPMENT AND CIRCUITS, SIZED AS PER NEC, AND AS SHOWN ON DRAWINGS.
10. COMPLY WITH NFPA'S, OTHER APPLICABLE CODES, AND AUTHORITY HAVING JURISDICTION OR AS SHOWN ON DRAWINGS FOR MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT AND DEVICES. MAINTAIN MINIMUM WORKING CLEARANCES REQUIRED BY NEC.
11. WHERE NEW WALLS ARE BEING CONSTRUCTED, MOUNT NEW WIRING DEVICES RECESSED IN WALL AS APPLICABLE, UON. COORDINATE WITH THE ARCHITECTURAL PLANS FOR WALL SECTIONS AND DETAILS. WHERE EXISTING CMU BLOCK IS TO REMAIN, AND IN MECHANICAL ROOMS, MOUNT ALL NEW WIRING DEVICES SURFACE MOUNT, UON. COORDINATE WITH THE ARCHITECTURAL PLANS FOR WALL SECTIONS AND DETAILS. WHERE REPLACING AN EXISTING RECESSED WIRING DEVICES IN EXISTING WALL, REUSE THE EXISTING BOX AND CONDUIT AND MOUNT THE DEVICE THE SAME AS THE ONE BEING REPLACED. COORDINATE WITH THE ARCHITECTURAL PLANS FOR WALL SECTIONS AND DETAILS.
12. SEAL ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS W/ APPROVED UL LISTED FIRE STOPPING MATERIALS PER NFPA AND OTHER APPLICABLE CODES/REGULATIONS.
13. CIRCUITS SUPPLYING RECEPTACLES, AS MINIMUM, SHALL BE #12 THHN CONDUCTORS IN 3/4" EMT OR MC CABLE RUN HORIZONTALLY UNDERSIDE OF STRUCTURE; AND #12 THHN CONDUCTORS IN EMT CONDUIT RUN VERTICALLY IN THE CMU BLOCK WALL OR DRY WALL PARTITION. EACH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL. DAISY CHAIN CONNECTION BETWEEN RECEPTACLES IS NOT PERMITTED – WIRE THE OUTLET IN A MANNER THAT IF ONE OUTLET HAS BEEN REMOVED, THE REMAINING OUTLETS IN THE CIRCUIT WILL STILL BE ENERGIZED.
14. PROVIDE TAMPER-RESISTANT RECEPTACLES WHERE IT REQUIRED PER NEC CODE 2011.
15. PROVIDE A SINGLE FACE PLATE WHERE TWO OR MORE DEVICES APPEAR IN A SINGLE LOCATION ON THE DRAWINGS.
16. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS, MOUNTING HEIGHT AND INSTALLATION OF ALL ELECTRICAL DEVICES NOTED ON ARCHITECTURAL DOCUMENTS. IF THERE ARE ANY DIFFERENCES BETWEEN THE ARCHITECTURAL AND ELECTRICAL DRAWINGS, THE ARCHITECTURAL DRAWINGS SHALL SUPERSEDE ELECTRICAL DRAWINGS, UON.
17. WHERE CONDUCTORS SHALL BE CONCEALED BY GRID DROP CEILING TILES, ALL NEW CONDUCTORS SHALL BE RUN AS MC CABLE TYPE OF THE SAME RATING AND CONDUCTOR COUNT, IN PLACE OF INDIVIDUAL CONDUCTORS IN EMT CONDUIT, UON.

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Murphy & Dittnerhauer
ARCHITECTS
800 North Charles Street, Baltimore, Maryland 21201
410-625-4623 voice 410-625-4674 fax

Mark	Date	Description
1	8/6/25	BID SET

PROJECT NO: 20120
DRAWN BY: MH
CHECKED BY: KS
ELECTRICAL LEGENDS AND GENERAL NOTES
SHEET E-001



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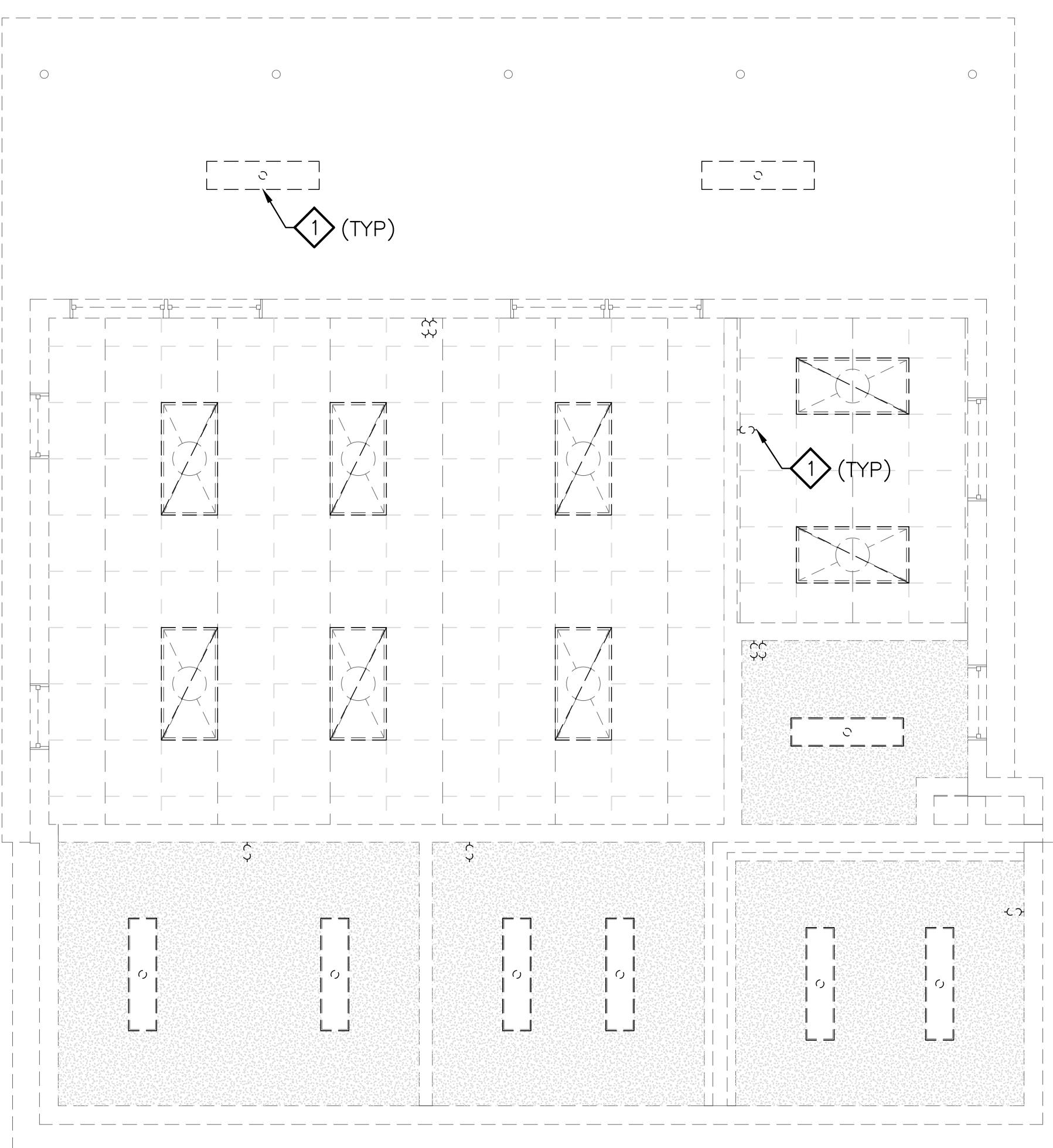
Murphy & Dittenhafer
ARCHITECTS
 800 North Charles Street, Baltimore, Maryland 21201
 410-625-4623 voice 410-625-4674 fax
 228 West Market Street, York, Pennsylvania 17401
 717-843-2449 fax

GENERAL NOTES

1. SEE ELECTRICAL COVER SHEET FOR SYMBOLS, CONVENTIONS, ABBREVIATIONS, AND GENERAL NOTES.

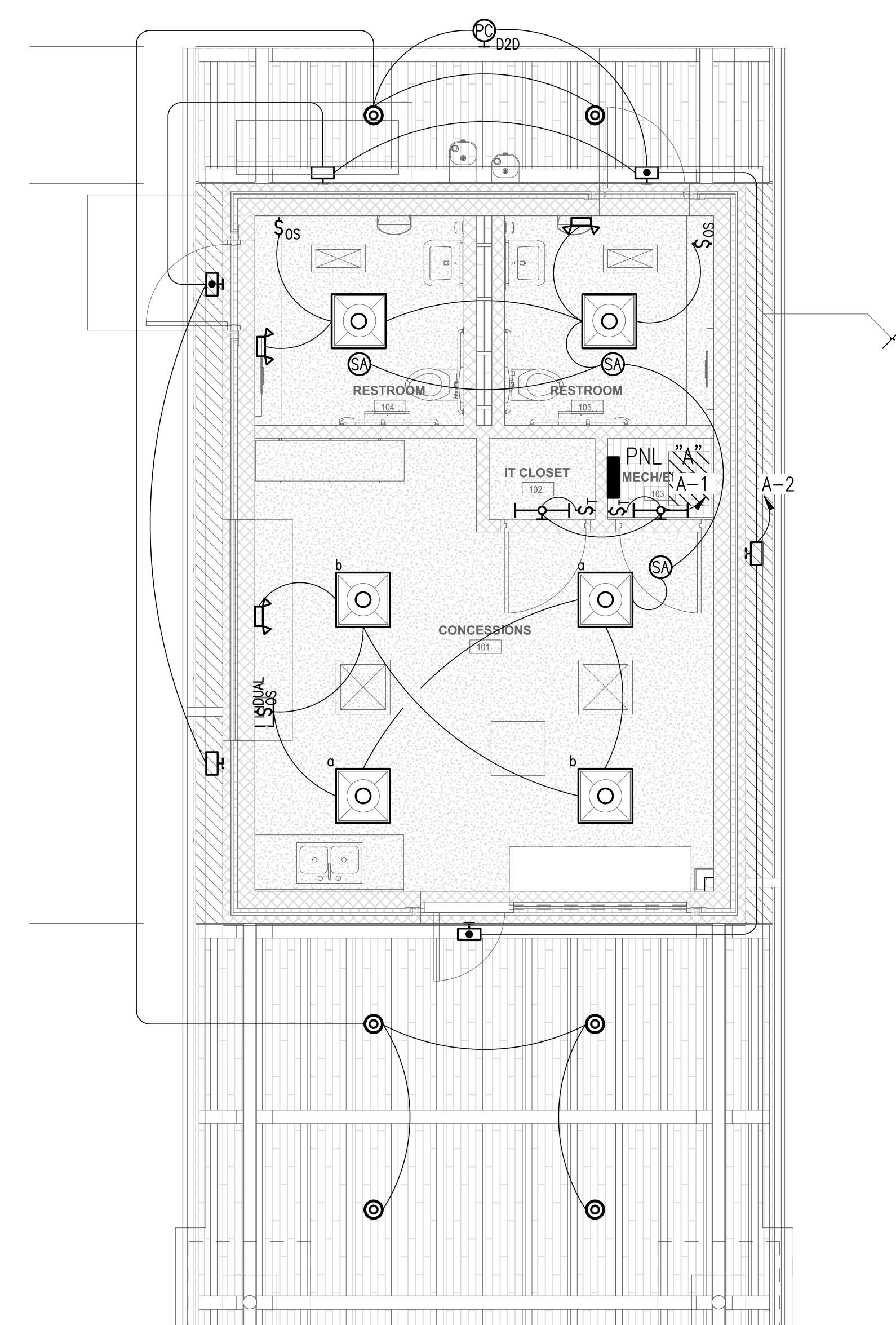
LIGHTING DEMOLITION NOTES

1 REMOVE ALL LIGHT FIXTURES AND SWITCHES.



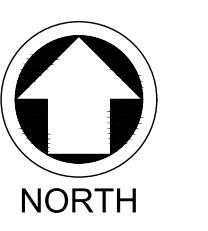
1
E-101

LIGHTING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

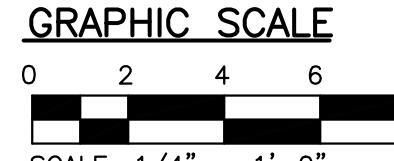


2
E-101

LIGHTING NEW WORK PLAN
 SCALE: 1/4" = 1'-0"



NORTH



GRAPHIC SCALE
 SCALE: 1/4" = 1'-0"
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 GRAPHIC SCALE MUST BE USED.

PROJECT NO: 20120
 DRAWN BY: MH
 CHECKED BY: KS

LIGHTING PLANS

SHEET
E-101

PANEL "A"													
BUS RATING: 255A			MIN. AIC: 10K			ISOLATED GROUND BUS: NONE			MOUNTING: SURFACE				
VOLTS: 240/120			SECTION: FED FROM: SERVICE METER			REMARKS:							
MLO: 225A			NETURAL BUS: 100%			NEMA ENCLOSURE: NEMA 1							
PHASE: 1Ø-3W			GROUND BUS: 50%			LOCATION: MECH [103]							
CIRK NO.	DESCRIPTION	BRANCH CIRCUIT			KVA/Ø			BRANCH CIRCUIT			DESCRIPTION	CIRK NO.	
		TRIP AMPS	POLE	NOTE	A/Ø	B/Ø	NOTE	POLE	TRIP AMPS				
1	INTERIOR LIGHTING	15	1	2	0.50	0.68		2	1	15	EXTERIOR LIGHTING	2	
3	RECEPTACLE	20	1	2			1.50	1.50	2	1	20	RECEPTACLE	4
5	RECEPTACLE	20	1	2	1.50	1.50		2	1	20	RECEPTACLE	6	
7	RECEPTACLE	20	1	2			1.50	1.50	2	1	20	RECEPTACLE	8
9	RECEPTACLE	20	1	2	1.50	0.75		1,2	1	15	WATER COOLER/DRINKING FOUNTAIN	10	
11	UNIT HEATERS (UH-1)	15	1	2			1.00	0.12	2	1	15	EXHAUST FANS	12
13	UNIT VENTILATOR (UV-1)	90	2	4	5.25			3	2	30	CONCESSIONS [101] SINK (IWH-1)	14	
15	-	-	-	-	5.25			-	-	-	-	16	
17	RESTROOM [104] LAVATORY (IWH-1)	30	2	3				3	2	30	RESTROOM [105] LAVATORY (IWH-1)	18	
19	-	-	-	-				-	-	-	-	20	
21	IT CLOSET	20	1	2				2	1	20	HAND DRYER [104]	22	
23	HAND DRYER [105]	20	1	2				2	1	20	RESTROOM HEATERS	24	
25	SPACE		1					1			SPACE	26	
27	SPACE		1					1			SPACE	28	
29	SPACE		1					1			SPACE	30	
SUB. TOTAL (KVA) : 8.75 2.93 9.25 3.12 NOTES:													
TOTAL Ø (KVA) : 11.68 12.37 1. GFCI TYPE BREAKER													
CONNECTED TOTAL (KVA) : 24.05 2. #12 PHASE-NEUTRAL + #12 GROUND - 3/4" CONDUIT													
CONNECTED TOTAL (AMPS) : 100.21 3. #10 PHASE-NEUTRAL + #10 GROUND - 3/4" CONDUIT													
4. #6 PHASE-NEUTRAL + #10 GROUND - 1" CONDUIT													

GENERAL NOTES	
1. SEE ELECTRICAL COVER SHEET FOR SYMBOLS, CONVENTIONS, ABBREVIATIONS, AND GENERAL NOTES.	
ELECTRICAL DEMOLITION NOTES	
<p>1. DISCONNECT AND REMOVE SERVICE, METER, AND PANELBOARDS.</p> <p>2. REMOVE ALL RECEPTACLES AND JACKS.</p>	

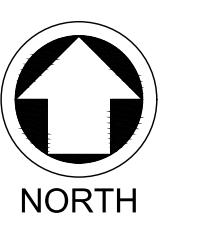
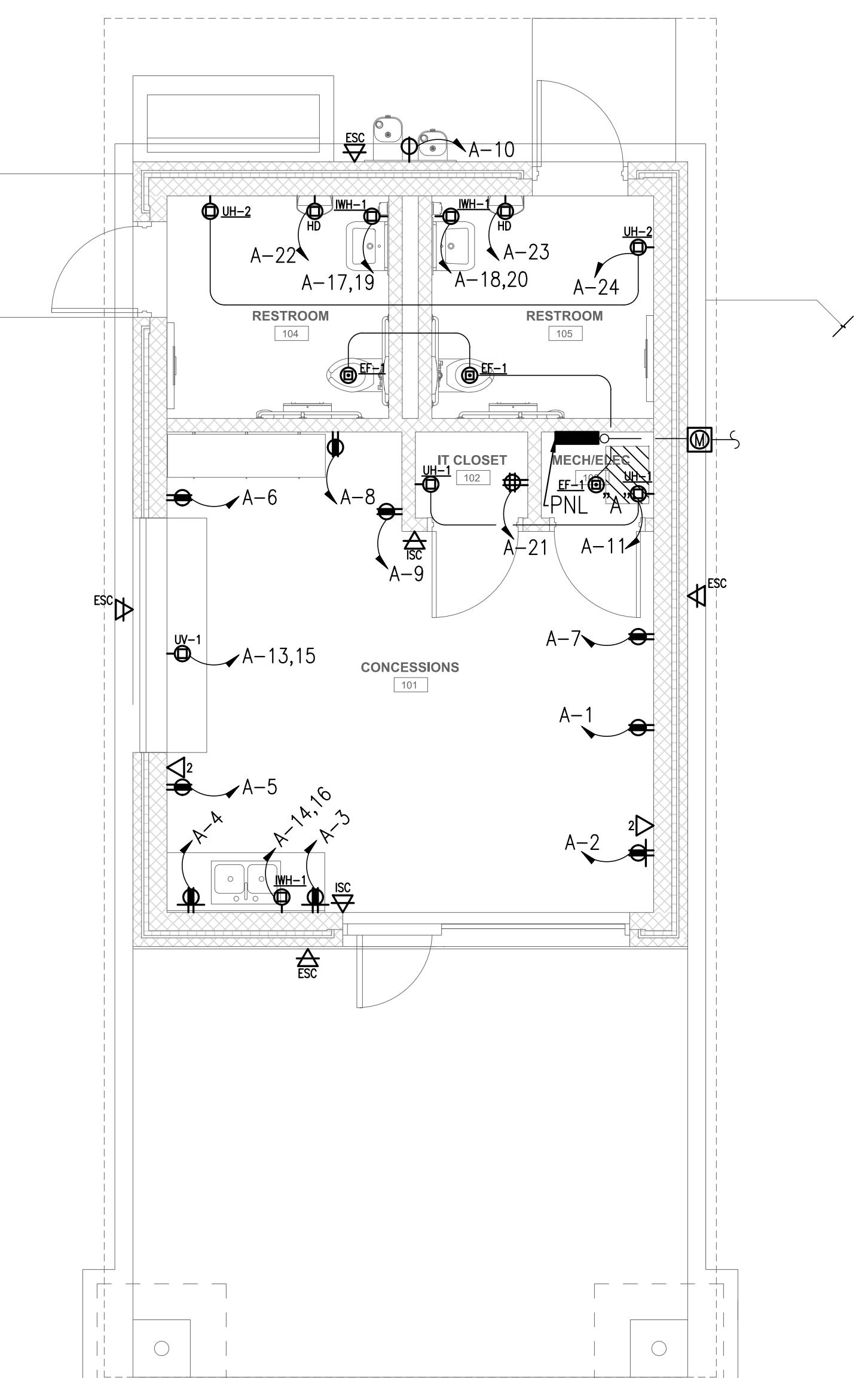
BALTIMORE CITY RECREATION & PARKS
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Murphy & Dittnerhauer
A R C H I T E C T S

Mark	Date	Description	BID SET
1	8/8/25		

PROJECT NO:	20120
DRAWN BY:	MH
CHECKED BY:	KS
ELECTRICAL PLANS & PANEL SCHEDULE	
SHEET E-201	



NORTH

GRAPHIC SCALE

0 2 4 6 8

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

IF THIS PRINT IS A REDUCTION,
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2
E-201

ELECTRICAL & DATA NEW WORK PLAN
SCALE: 1/4" = 1'-0"

1
E-201

ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

PLUMBING SYMBOLS		PLUMBING ABBREVIATIONS	PLUMBING GENERAL NOTES	
— SAN —	SAN	SANITARY OR WASTE PIPE	ADA	AMERICANS WITH DISABILITIES ACT
— SAN-UG —	SAN	UNDERGROUND SANITARY OR WASTE PIPE	BFP	BACK FLOW PREVENTER
— V —	V	VENT	DFU	DRAINAGE FIXTURE UNIT
— CW —	CW	DOMESTIC COLD WATER PIPING	DIA	DIAMETER
— HW —	HW	DOMESTIC HOT WATER PIPING	DN	DOWN
— HWR —	HWR	DOMESTIC HOT WATER RETURN	E,EX.	EXISTING
— ◊ —		BALANCING VALVE	ETR	EXISTING TO REMAIN
— Ⓜ —		PIPE TURNING DOWN	FCO	FLOOR CLEANOUT
— Ⓛ —		PIPE TURNING UP	FD	FLOOR DRAIN
— —		UNION	FLR	FLOOR
— ○ —		RISE OR DROP	FS	FLOOR SINK
— ⊕ —		BRANCH-TOP CONNECTION	FV	FLUSH VALVE
— ⊖ —		BRANCH-BOTTOM CONNECTION	GPM	GALLONS PER MINUTE
— ► —		FLOW IN DIRECTION OF ARROW	HP	HORSEPOWER
— ☒ —		CAPPED OUTLET	Hz	HERTZ
— ☐ —		CAPPED PIPE	HW	HOT WATER
— ↗ —		CHECK VALVE	IN	INCHES
— TP —		TRAP PRIMER PIPE	MAX	MAXIMUM
— ☐ —	SA	SHOCK ABSORBER	MIN	MINIMUM
— ⊕ —		BALL VALVE	SFU	SUPPLY FIXTURE UNIT
— + —		STRAINER W/HOSE	TP	TRAP PRIMER
— ⊕ —		END DRAIN VALVE	TYP	TYPICAL
— ⊕ —	CO	CLEANOUT	VTR	VENT THRU ROOF
— ☐ —	FD	FLOOR DRAIN	WCO	WALL CLEANOUT
— ☐ —		METER	W/	WITH
— + —		WALL HYDRANT (WH)		
— / / / / —		EXISTING PIPING TO BE REMOVED		
— ☐ ☐ —		EXISTING FIXTURE TO BE REMOVED		
			<ol style="list-style-type: none"> 1. THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS OF EXISTING PLUMBING SYSTEMS PRIOR TO ORDERING AND FABRICATION. 2. ALL PIPING SHALL BE INSTALLED OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OR INSIDE PIPE CHASE UNLESS OTHERWISE INDICATED. 3. INSTALL PIPING SO THAT ALL VALVES ARE ACCESSIBLE FOR MAINTENANCE. PROVIDE ACCESS PANELS WHERE HARD CEILING IS INSTALLED. 4. ALL EQUIPMENT PHYSICAL DIMENSIONS SHOWN ON PLUMBING DRAWINGS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL EQUIPMENT DIMENSIONS IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS AND COORDINATION WITH OTHER TRADES. 5. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO AND DURING INSTALLATION OF PLUMBING PIPING. 6. THE CONTRACTOR SHALL PROVIDE AND COORDINATE ALL PIPE HANGERS AND SUPPORTS INSTALLATION WITH OTHER TRADES. 7. ALL PLUMBING INSTALLATION SHALL CONFORM TO THE 2018 EDITION OF THE INTERNATIONAL PLUMBING CODE AND THE BALTIMORE CITY REGULATIONS. 8. PRIOR TO CONNECTION TO EXISTING SANITARY PIPING SYSTEM, THE CONTRACTOR SHALL FLUSH THE EXISTING SANITARY PIPING WITHIN THE CONTRACT LIMITS AND VERIFY THAT NO OBSTRUCTIONS OR LEAKS EXIST. IF OBSTRUCTIONS OR LEAKS ARE NOTED, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE. 	

PLUMBING SCHEDULES

PLUMBING FIXTURE CONNECTION SCHEDULE										ITEM DATA	
ITEM	DESCRIPTION	WASTE	VENT	CW	HW	TW	FLOW RATE	REMARKS	MFR	MODEL NUMBER	
WC-1	WATER CLOSET, ADA COMPLIANT	4"	2"	1"	-	-	1.28 GPF	FLOOR MOUNTED, FLUSH VALVE, 16 3/4" HIGH	ZURN	Z600AV-HET	
L-1	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	-	0.35 GPM	WALL MOUNTED	ZURN	Z867R0-XL	
EWC-1	ELECTRIC WATER COOLER	1 1/2"	1 1/2"	1/2"	-	-		ADA - ACCESSIBLE, BI-LEVEL. PROVIDE ASSE 1024 BFP.			
S-1	2-COMPARTMENT SINK - ADA COMPLIANT	2"	1 1/2"	1/2"	1/2"	-	0.5 GPM	COUNTER TOP, DROP-IN.	ZURN	Z831B1-XL-CT	

ELECTRIC WATER HEATER SCHEDULE												
UNIT NO	LOCATION	HEATING ELEMENT (KW)	HW HEATER RECOVERY RATE @ 90°F RISE (GPH)	ENTERING WATER TEMP.(°F)	LEAVING WATER TEMP.(°F)	STORAGE CAPACITY (GAL.)	ELECTRICAL DATA			APPROXIMATE OPERATING WEIGHT (LBS)	APPROXIMATE DIMENSIONS (IN.)	BASIS OF DESIGN
							VOLT	PHASE	CYCLE			
IWH-1	BELOW SINK/LAV	4.8	-	45	109	N/A	240	1	60	4	10.75 x 5.25 x 2.875	EEMAX MODEL EX48T EE

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A R C H I T E C T S

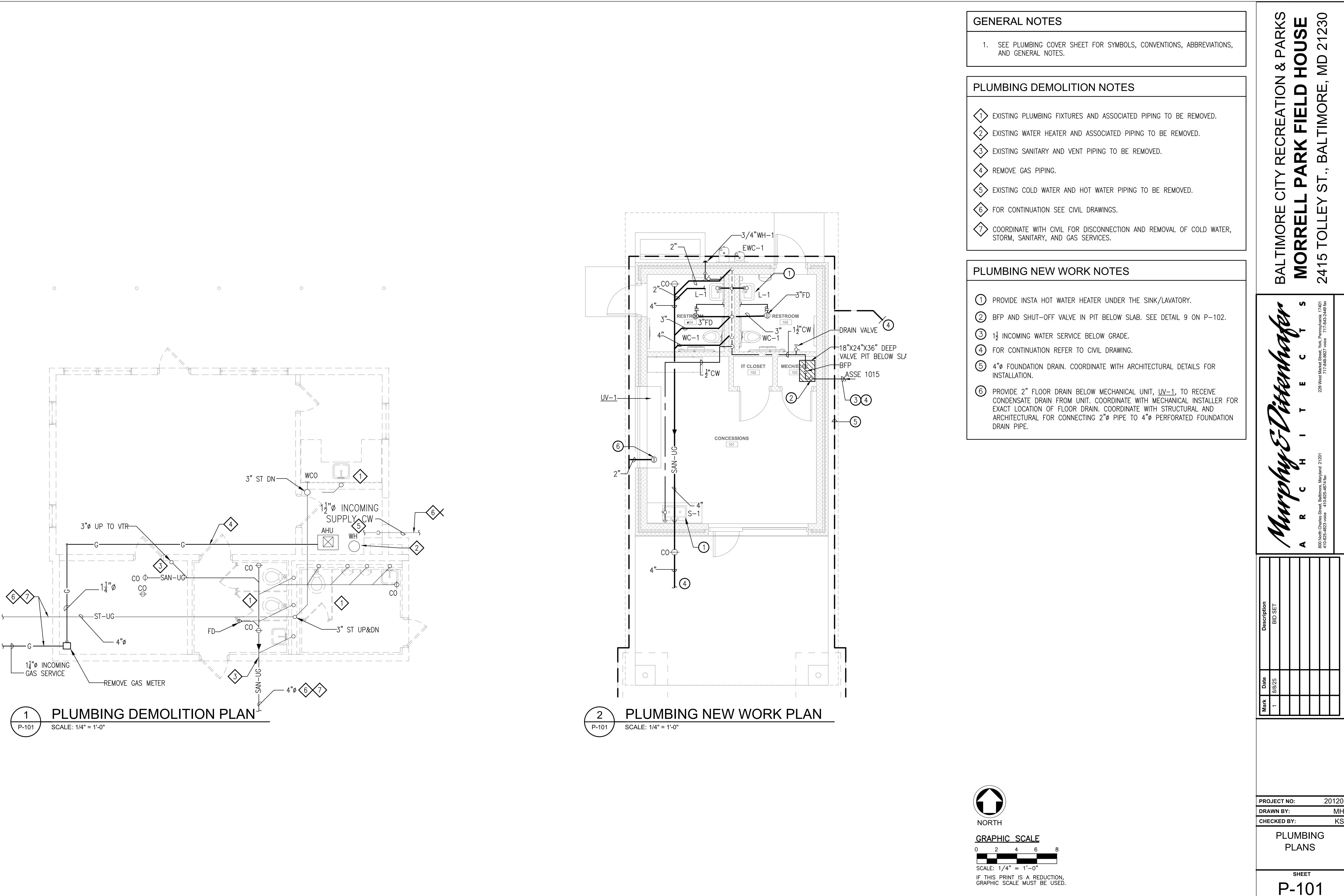
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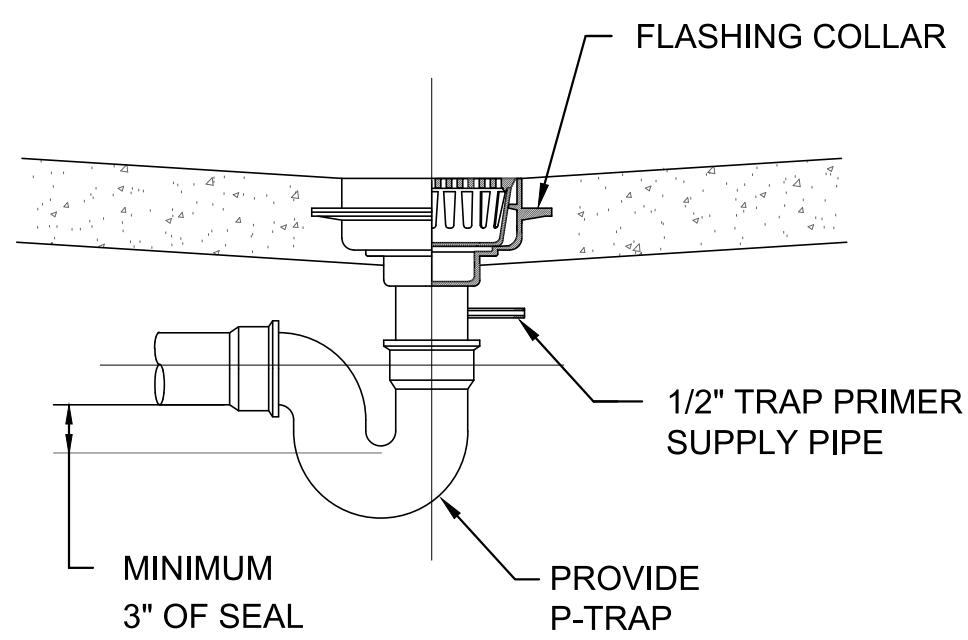
**PLUMBING
LEGEND AND
GENERAL NOTES**

SHEET

P-001

P-001

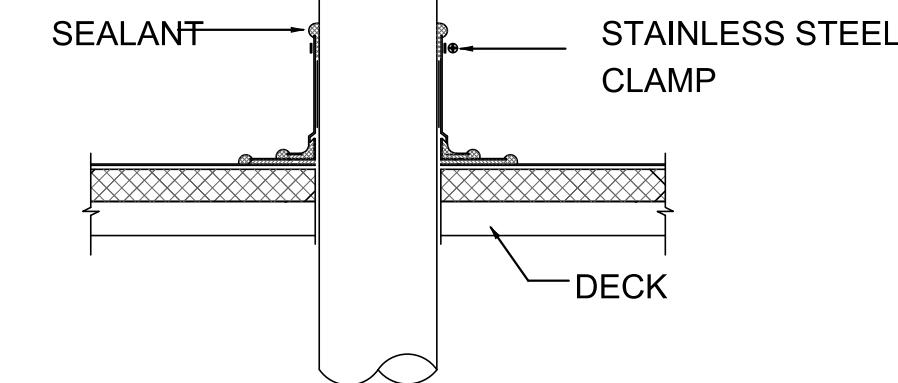




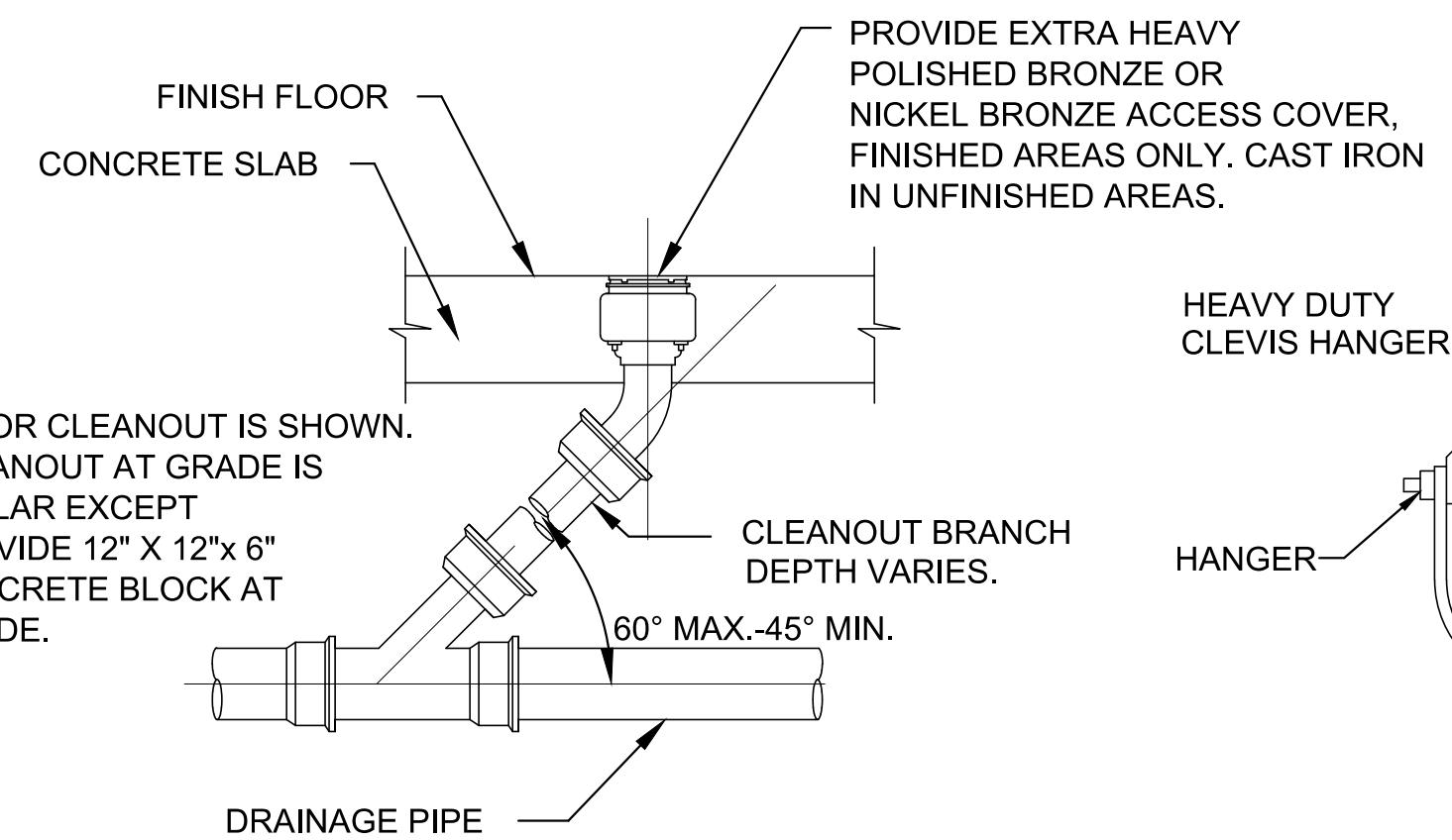


FLOOR DRAIN DETAIL

P-102 NO SCALE

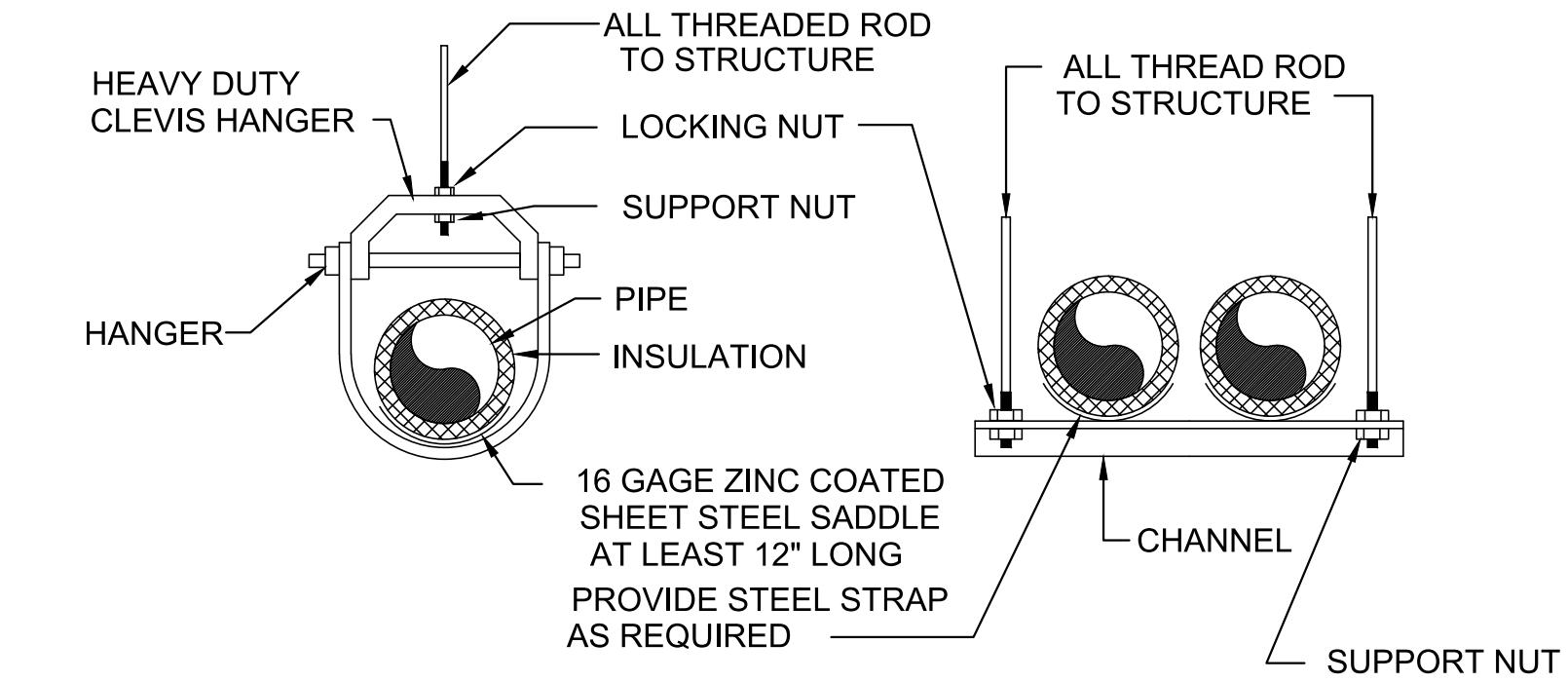


- * FLASHING MINIMUM 6" HIGH WHENEVER POSSIBLE AND MUST BE ABOVE ROOF FLOOD LEVEL.
- * REFER TO ARCH DRAWINGS FOR FLASHING DETAIL.

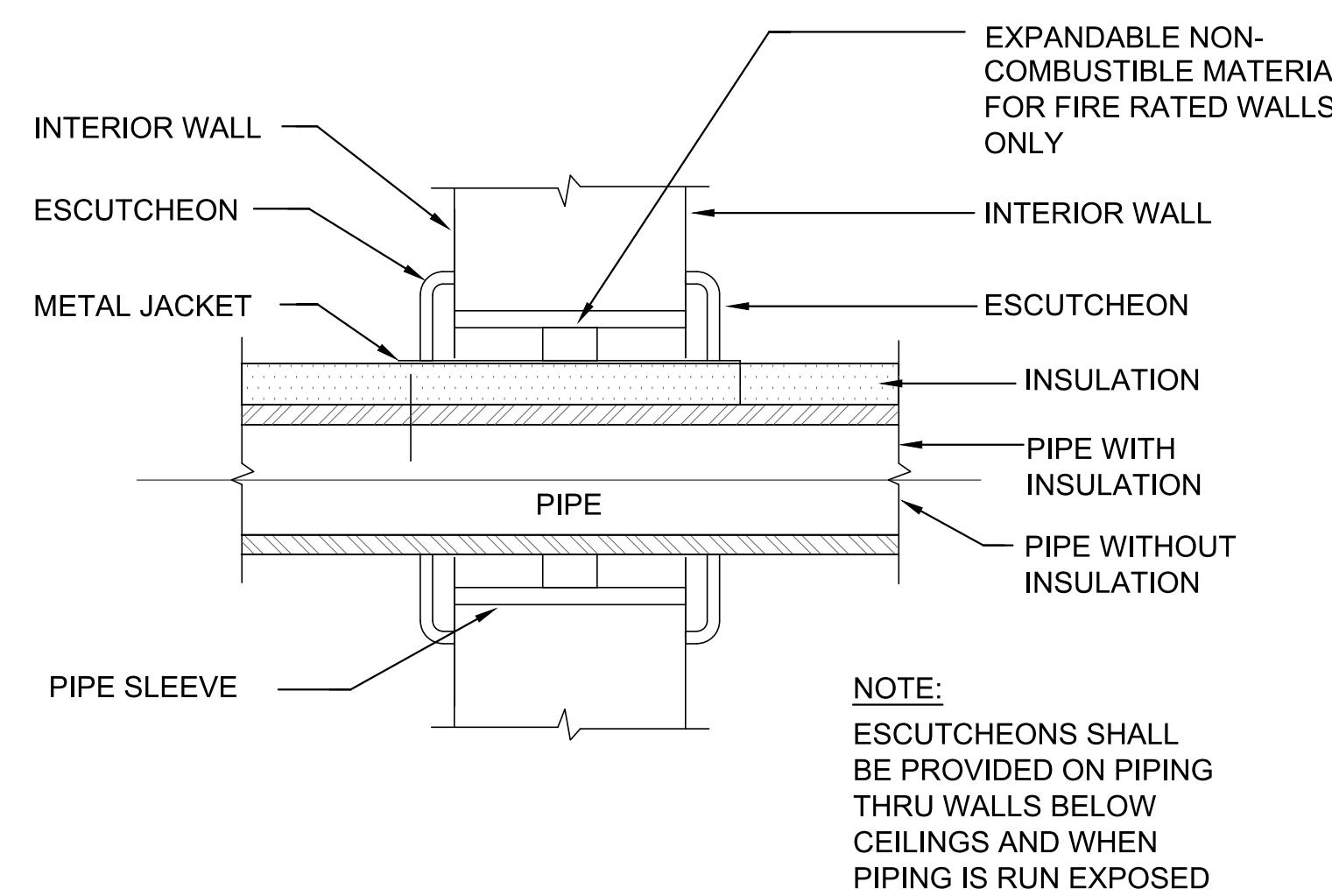


3 FLOOR CLEANOUT DETAIL

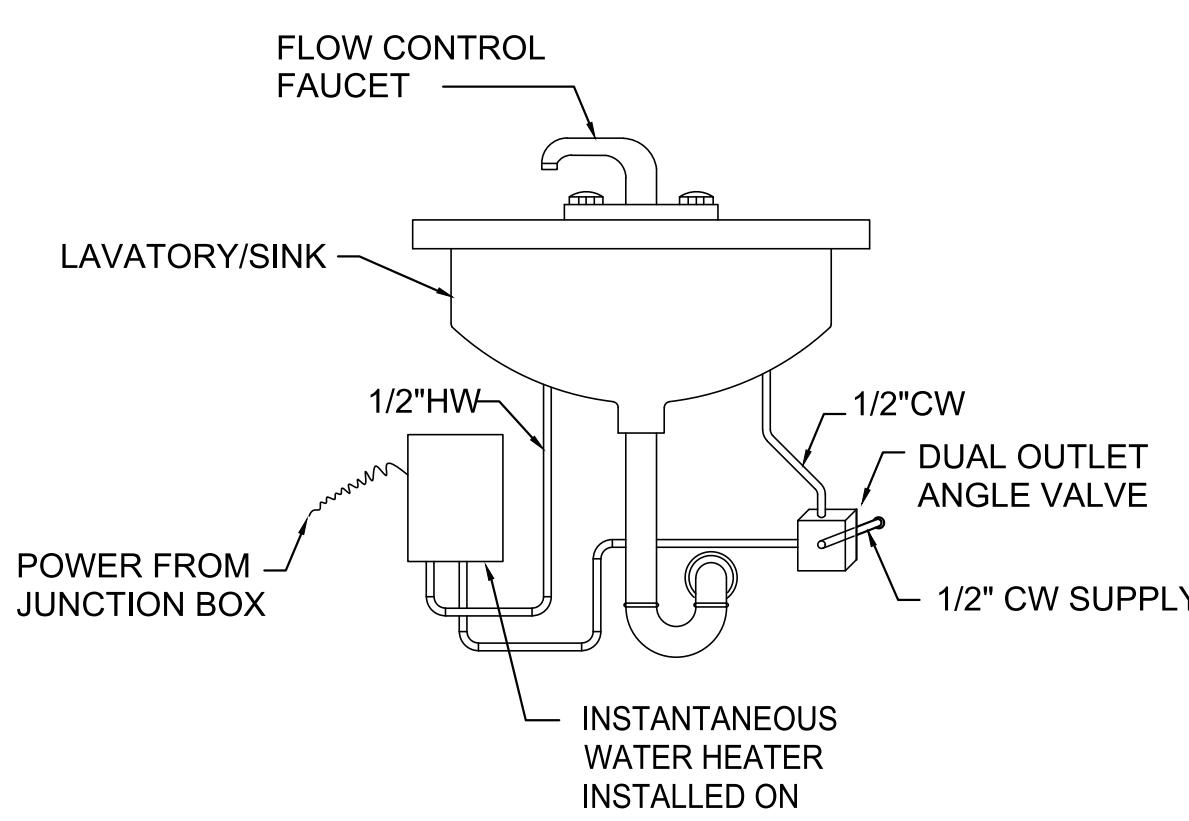
P-102 NO SCALE



PIPE SUPPORT DETAIL

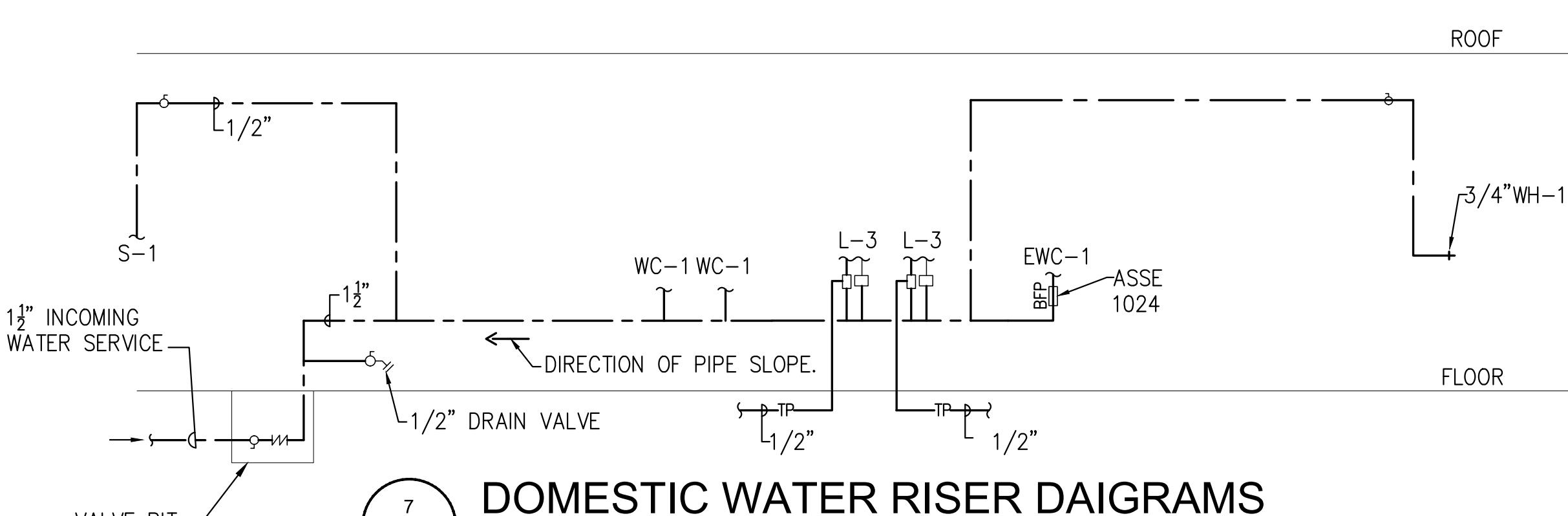


5 PIPE THRU INTERIOR WALL DETAIL



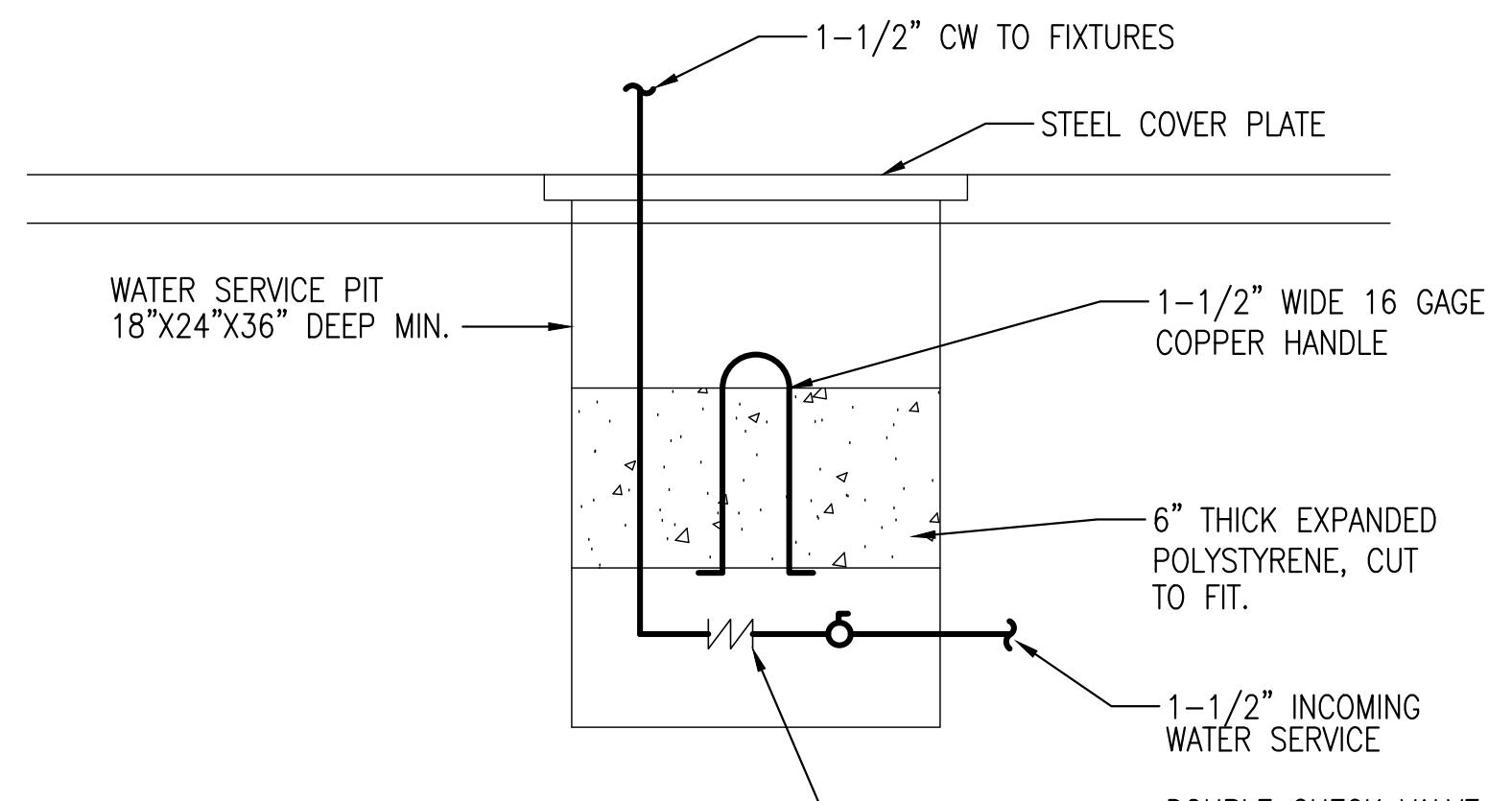


6 INSTANTANEOUS WATER HEATER DETAIL



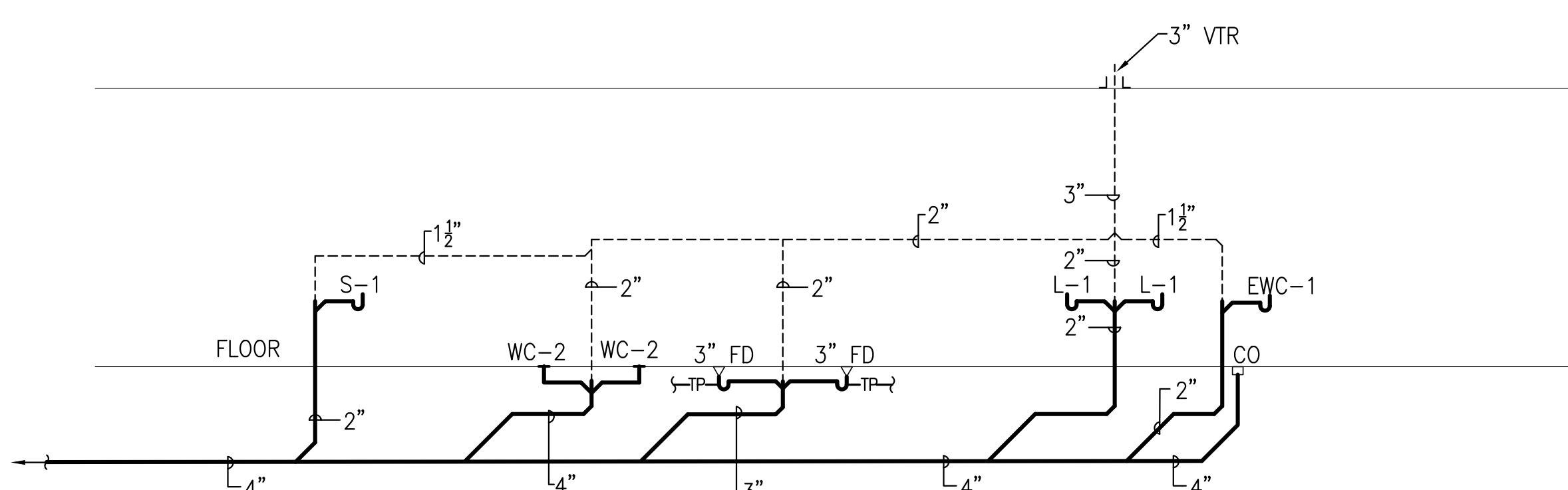


DOMESTIC WATER RISER DIAGRAMS



9 PIPING DETAIL AT VALVE PIT

P-102 NOT TO SCALE





SANITARY RISER DIAGRAMS

PROJECT NO:	20120
DRAWN BY:	MH
CHECKED BY:	KS

PLUMBING DETAILS AND RISER DIAGRAMS