

**ADDENDUM NO. 5
IRONDALE PUBLIC LIBRARY**

BIDS RECEIVED:

TIME: 2:00pm

DATE: February 15, 2024

Irondale Library Meeting Room

CITY OF IRONDALE

THIS ADDENDUM IS DIRECTED TO ALL PRIME BIDDERS, AND ALL OTHERS TO WHOM DRAWINGS AND SPECIFICATIONS HAVE BEEN ISSUED.

THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS. THE FOLLOWING CONDITIONS TAKE PRECEDENCE OVER ANY CONFLICTING CONDITIONS IN THE DRAWINGS AND SPECIFICATIONS. THE DRAWINGS AND SPECIFICATIONS ARE HEREBY AMENDED IN THE FOLLOWING PARTICULARS.

GENERAL

1. Underground storm retention details attached.

DRAWINGS

1. Sheet C1.01
 - a. Added demo and removal of existing driveway apron west of site entrance.
2. Sheet C2.01
 - a. Reprint sheet issued in Addendum 4 due to corrupted file.
3. Sheet C3.01
 - a. Reprint sheet issued in Addendum 4 due to corrupted file.
4. Sheet C4.01
 - a. Reprint sheet issued in Addendum 4 due to corrupted file.
5. Sheet C5.01
 - a. Reprint sheet issued in Addendum 4 due to corrupted file.
6. Sheet C5.02
 - a. Added drain line behind building to profile view
 - b. Added bioretention cell detail
7. Sheet S3.02
 - a. Section 2 – 3x3 3/8" Bent Plate at roof
 - b. Section 4 – 3x3 3/8" Bent Plate at roof
 - c. Section 5 & 6 – Dimension note added
8. Sheet E002
 - a. Added Fixtures 'P5E', 'W2', and 'PL4'.
 - b. Updated Manufacturer and Model Numbers for Fixture 'P12' and 'P13'.
 - c. Updated description for fixture 'PL2'.
9. Sheet E003
 - a. Deleted Timeclock Wiring Diagram Detail.
 - b. Added Detail for Lighting Control Panel.
10. Sheet E005
 - a. Added biscuit jack clarification to Wireless Access Point Detail.
11. Sheet E101

- a. Moved monumental sign. Coordinate the exact location with the civil drawings.
 - b. Updated circuiting requirements for the site.
- 12. Sheet E201
 - a. Light fixture designations modified to reflect additional fixtures that will require battery back-up.
 - b. Removed two (2) exit signs at entry lobby.
 - c. Added General Note 'D'.
- 13. Sheet E202
 - a. Added cabling requirements for Wireless Access Points.
 - b. Added plan note designations to floor boxes that were not identified.
- 14. Sheet E203
 - a. Added duct mounted smoke detectors at roof top unit as required.

SPECIFICATIONS

- 1. Section 07 41 13 Metal Roof Panels
 - a. Approved: Fabral Power Seam 24 Gauge 16" Roof Panels.
- 2. Section 10 21 13.15 Stainless Steel Toilet Compartments
 - a. Add Scranton Products- Hiny Hiders Solid Plastic partitions as approved alternate.
- 3. Section 10 21 13.18 Solid Plastic Toilet Compartments
 - a. Add attached specification to Project Manual.
- 4. Section 27 15 00
 - a. Change all references in this section from "City of Huntsville" to "City of Irondale".

REQUEST FOR INFORMATION/CLARIFICATIONS

- 1. Per the mechanical drawings RTU's 1, 2, 3, 6, 7, and 8 are the only units over 2000CFM. Will these be the only units requiring duct detectors and should they be on both the supply and return?
Response: Duct detectors to be provided by electrical and installed by mechanical. Duct detectors required on supply and return ductwork at RTU-1, 2, 3, 6, 7, and 8.
- 2. Light Fixture 'PL2' quantity of (3) on electrical drawing E101 is shown as a single head but on the lighting schedule on electrical drawing E002 fixture 'PL2' is listed as a double-head. Please clarify.
Response: Fixture shall be single head.
- 3. Light fixture 'PL4' quantity of (2) on electrical drawing E101 is not listed on the lighting schedule on electrical drawing E002. Please provide a part number.
Response: Added on attached revised sheets.
- 4. Light fixture type 'W2' quantity of (4) shown on the exterior of the building at entry 100 on electrical drawing E201 is not listed on the lighting schedule on electrical drawing E002. Please provide a part number.
Response: Added on attached revised sheets.
- 5. Light fixture type 'P13' as shown in comp. station 208 on electrical drawing E201 does not appear to be 14' long as noted on the lighting schedule on electrical drawing E002. Please clarify.
Response: Fixture description and catalog number revised. See revised sheet.
- 6. General note 11 on sheet L2.04 states that the landscape contractor shall provide approved topsoil to perform incidental grading work. What quantity of topsoil should be provided for incidental grading work?
Response: 20 yards, sifted topsoil. Will add to bid sheet

7. Please provide details for the coordination of the proposed light pole foundation that is shown to be in the underground detention system on sheet C3.01. Sheet C4.01 and C5.01 have a note pointing to a dashed box within the underground detention system that says to allow for utility pole foundation in the storm water detention chamber layout. Does this mean the underground detention will need to be left out of this boxed area to allow for the light pole foundation?

Response: The underground detention design has been coordinated with the placement of the proposed light pole base. Detention layout drawings are attached.

8. Sheet C3.01 shows another light pole that will be located in the bioretention cell BRC 4. Will there need to be any special foundation details for this light pole foundation?

Response: The light pole shown on sheet C3.01 has been adjusted outside the bioretention cell BRC4.

9. Sheet L2.01 show an area labeled Pine tree mass. There is not a species, size or spacing given for these on the plans or in the planting schedule.

Response: There are 198 total pines on the plan, installed in three equal parts between the following species: Pinus Virginiana, Pinus Taeda, and Pinus Palustris. All are to be 15 gal at 7'-8' ht at install, 12'=0" o.c.

10. Detail 7 on sheet L1.03 call for a brown or black drainage gravel under filter fabric. Could we get clarification on what that gravel needs to be or if #57 is acceptable?

Response: #50AA blue/brown rip rap from Alabama Wholesale Stone or approved equal

11. Neither the civil grading plan, sheet C4.01, nor the hardscape plans, sheets L1.01 and L1.02, show any grades for the dry creek beds. Sheet L1.01 and L1.02 reference detail 7/L1.03 for the dry creek bed which shows a cross section of a swale which is not depicted in the grading of the site. Please provide grades and details of where and how this dry creek swale are intended to be built and drain to.

Response: See civil for elevations. See landscape detail 9/L2.04 for bio-swale detail and detail 7/L1.03 for swale when not called out as bio-swale

12. General note 10 on sheet L2.04 calls for 6" of topsoil in shrub beds and all areas to be seeded. Will the existing onsite topsoil stripped during the grading operations be acceptable for re-use in these areas? Grading note 10 on sheet C4.01 calls for 4" of topsoil for areas not covered with pavement or building. Are we to provide 4" of topsoil or 6" of topsoil in seeded and landscape areas?

Response: 6" of topsoil. See specifications for soil amendments if needed based off soils report/testing to be provided by GC. Sheet C4.01 will be revised in coordination with Landscape plans to show grades at dry creek locations behind building and at SE corner of site. Grades also to be shown at island between parking aisles, to drain toward bioretention cells.

13. Detail 9 on sheet L2.04 says to see the civil plans for drain pipe, pipe type, size, depth, and locations for the perforated drain pipes in the bioretention areas. The civil plans do not show any of the underdrains for the bioretention areas. Please provide details for the bioretention drain pipes.

Response: See updated plans

14. Drawing C3.01- Please include details and sizes of the proposed water meter, back flow(s) and all piping.

Response: Gas line location revised to show connection to building at SE back corner. Details for water meter, etc. to be provided.

15. Trash Receptacles - Spec 129323. Please provide a count for the Trash receptacles added in Addendum #4. They are not shown on L1.01 & L1.02.

Response: Provide a total of three (3). Two (2) Trash cans shown on L1.01, and one (1) trash can as shown on L1.02.

16. Please clarify heavy-duty asphalt areas.

Response: It should be heavy duty for the main driveway and the drive up to the dumpster pad. The rest of the loop and parking area should be standard duty.

17. Please provide spec for Automated External Defibrillator. **Response:** Provide AED and Wall cabinet equal to "Defibtech Lifeline AED Business Package" include pediatric pads.

www.aed.com/defibtech-lifeline-business-package.html

18. Please provide specs for curtain track

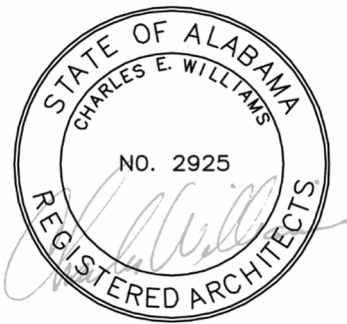
Response: provide curtain track equal to 85000 CS Aluminum Curtain Track, with 96" tall Oxford Privacy curtain. Curtain includes 20" of white mesh at top. For more information review at www.curtain-tracks.com Provide all hooks and mounting as required for a complete installation.

END OF ADDENDUM NO. 5

Attachment 1: Specification 10 21 13.15 Solid Plastic Toilet Compartments

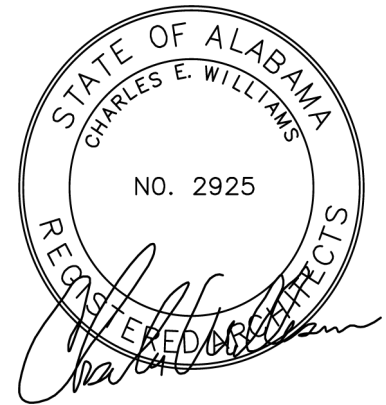
Attachment 2: Underground retention details

Attachment 3: Full size sheets: C1.01, C2.01, C3.01, C4.01, C5.01, C5.02, S3.02, E002, E003, E005, E101, E201, E202, and E203



SECTION 10 21 13.18

SOLID PLASTIC TOILET COMPARTMENTS



PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Solid plastic toilet compartments and urinal screens
- B. Related Sections:
 - 1. Division 01: Administrative, procedural, and temporary work requirements.

1.2 REFERENCES

- A. ASTM International (ASTM):
 - 1. A167 - Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - 2. B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 - 3. E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. National Fire Protection Association (NFPA) 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.

1.3 SYSTEM DESCRIPTION

- A. Compartment Configurations:
 - 1. Toilet partitions and privacy screens: Floor mounted, overhead braced.
 - 2. Urinal screens: Wall mounted.

1.4 SUBMITTALS

- A. Submittals for Review:
 - 1. Shop Drawings: Include dimensioned layout, elevations, trim, closures, and accessories.
 - 2. Product Data: Manufacturer's descriptive data for panels, hardware, and accessories.
 - 3. Samples: 2 x 3 inch samples in each color indicated on Drawings

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum [5] years experience in manufacture of solid plastic toilet compartments with products in satisfactory use under similar service conditions.
- B. Installer Qualifications: Minimum [5] years experience in work of this Section.

1.6 WARRANTIES

- A. Provide manufacturer's 25 year warranty against breakage, corrosion, and delamination under normal conditions.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by Scranton Products.
(www.scrantonproducts.com)
- B. Substitutions: Under provisions of Division 1.

2.2 MATERIALS

- A. Doors, Panels and Pilasters:
 - 1. High density polyethylene (HDPE), fabricated from polymer resins compounded under high pressure, forming single thickness panel.
 - 2. Waterproof and nonabsorbent, with self-lubricating surface, resistant to marks by pens, pencils, markers, and other writing instruments.
 - 3. 1 inch thick with edges rounded to 1/4 inch radius.
 - 4. Recycled content: Minimum 25 percent.
 - 5. Fire hazard classification: Not required.
 - 6. Color: As indicated on Finish Schedule
- B. Aluminum Extrusions: ASTM B221, 6463-T5 alloy and temper.
- C. Stainless Steel: ASTM A167, Type 304.

2.3 HARDWARE

- A. Hinges: Stealth integral hinge from door and pilaster material with exposed metal parts on interior of stall.
- B. Door Strike and Keeper:
 - 1. Continuous Aluminum, fabricate from heavy-duty extruded aluminum with bright dip anodized finish, with wrap-around flanges secured to pilasters with stainless steel tamper resistant Torx head sex bolts.
 - 2. Bumper: Extruded black vinyl.

- C. Latch and Housing:
 - 1. Heavy-duty extruded aluminum.
 - 2. Latch housing: Bright dip anodized finish.
 - 3. Slide bolt and button: Black anodized finish.
- D. Coat Hook/Bumper:
 - 1. Combination type, chrome plated Zamak.
 - 2. Equip outswing handicapped doors with second door pull and door stop.
- E. Door Pulls: Chrome plated Zamak.

2.4 COMPONENTS

- A. Doors and Dividing Panels: 55 inches high, mounted 14 inches above finished floor, [with aluminum heat-sinc fastened to bottom edges.]
- B. Pilasters: 82 inches high, fastened to pilaster sleeves with stainless steel tamper resistant Torx head sex bolt.
- C. Pilaster Sleeves: 3 inches high, one-piece molded HDPE, secured to pilaster with stainless steel tamper resistant Torx head sex bolt.
- D. Wall Brackets: 54 inches long, heavy-duty aluminum, bright dip anodized finish, fastened to pilasters and panels with stainless steel tamper resistant Torx head sex bolts.
- E. Headrail: Heavy-duty extruded aluminum, anti-grip design, clear anodized finish, fastened to headrail bracket with stainless steel tamper resistant Torx head sex bolt and at top of pilaster with stainless steel tamper resistant Torx head screws.
- F. Headrail Brackets: 20 gage stainless steel, satin finish, secured to wall with stainless steel tamper resistant Torx head screws.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install compartments in accordance with manufacturer's instructions and approved Shop Drawings.
- B. Install rigid, straight, plumb, and level.
- C. Locate bottom edge of doors and panels 14 inches above finished floor.
- D. Provide uniform, maximum 3/8 inch vertical clearance at doors.

E. Not Acceptable: Evidence of cutting, drilling, or patching.

3.2 ADJUSTING

A. Adjust doors and latches to operate correctly.

END OF SECTION

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	JOSEPH LEACH 470-432-1615 JOSEPH.LEACH@ADSPIPE.COM
ADS SALES REP	BRAGG KNOTT 205-504-3745 BRAGG.KNOTT@ADS-PIPE.COM
PROJECT NO.	S388993



IRONDALE LIBRARY

IRONDALE, AL, USA

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

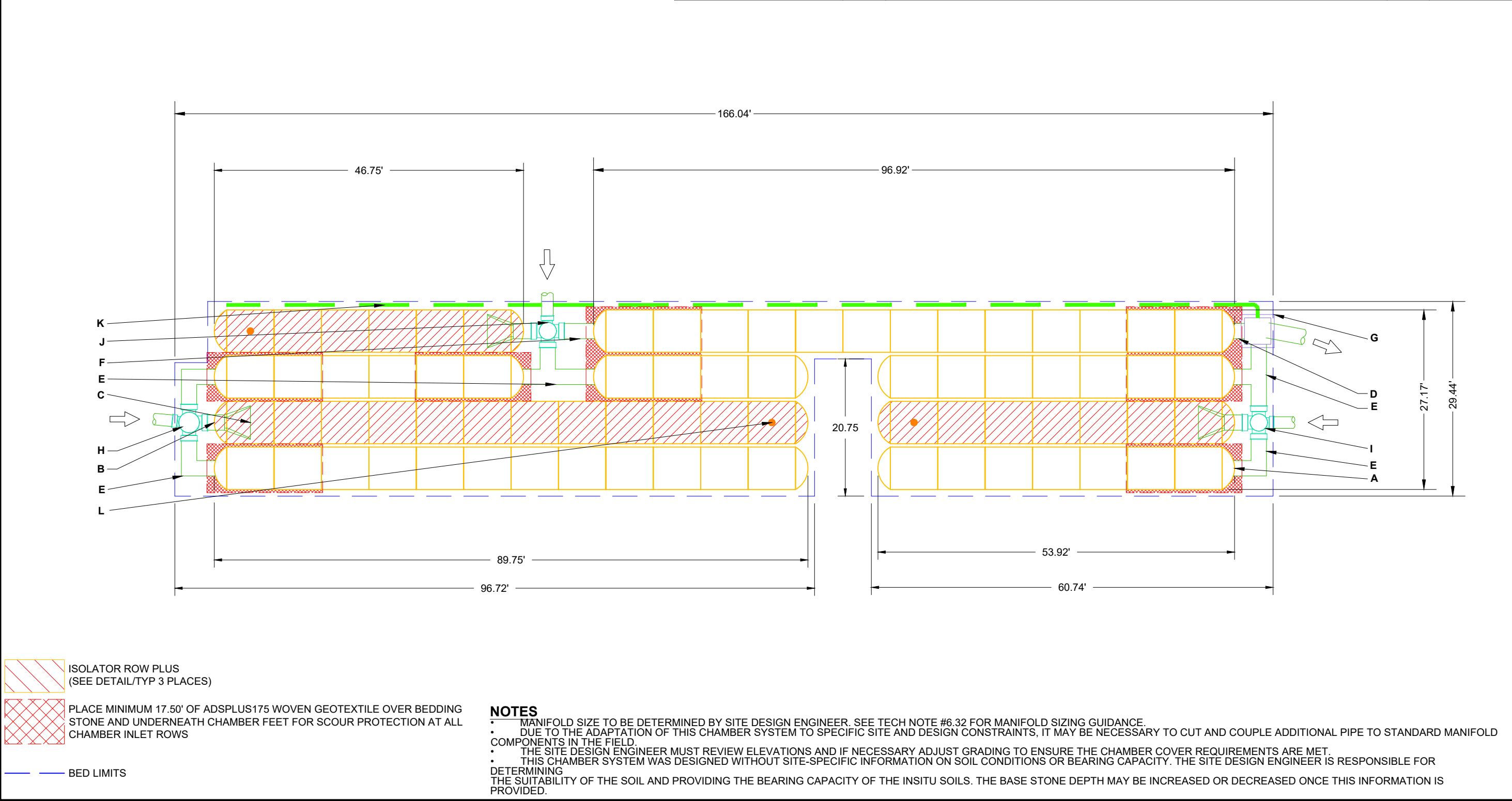
NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT		PROPOSED ELEVATIONS:		*INVERT ABOVE BASE OF CHAMBER				
				PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
74	STORMTECH MC-3500 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	917.50	PREFABRICATED END CAP	A	24" TOP CORED END CAP, PART#: MC3500IEPP24TC / TYP OF ALL 24" TOP CONNECTIONS	14.48"	
18	STORMTECH MC-3500 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	911.50	PREFABRICATED END CAP	B	24" BOTTOM CORED END CAP, PART#: MC3500IEPP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	2.06"	
12	STONE ABOVE (in)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	911.00	FLAMP	C	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: MCFLAMP (TYP 3 PLACES)		
9	STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	911.00	CONNECTION	D	24" BOTTOM CONNECTION, ADS N-12	2.06"	
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	911.00	MANIFOLD	E	24" x 24" TOP MANIFOLD, ADS N-12	14.48"	
15306	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF STONE:	910.50	CONNECTION	F	24" TOP CONNECTION, ADS N-12	14.48"	
		TOP OF MC-3500 CHAMBER:	909.50	CONCRETE STRUCTURE	G	OCS (DESIGN BY ENGINEER / PROVIDED BY OTHERS)		14.0 CFS OUT
		24" x 24" TOP MANIFOLD / CONNECTION INVERT:	906.96	NYLOPLAST (INLET W/ ISO PLUS ROW)	H	36" DIAMETER (24.00" SUMP MIN)		12.7 CFS IN
		24" ISOLATOR ROW PLUS INVERT:	905.92	NYLOPLAST (INLET W/ ISO PLUS ROW)	I	30" DIAMETER (24.00" SUMP MIN)		25.5 CFS IN
4665	SYSTEM AREA (SF)	24" BOTTOM CONNECTION INVERT:	905.92	NYLOPLAST (INLET W/ ISO PLUS ROW)	J	30" DIAMETER (24.00" SUMP MIN)		21.2 CFS IN
432	SYSTEM PERIMETER (ft)	BOTTOM OF MC-3500 CHAMBER:	905.75	UNDERDRAIN	K	6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN		
		UNDERDRAIN INVERT:	905.00	INSPECTION PORT	L	4" SEE DETAIL (TYP 3 PLACES)		
		BOTTOM OF STONE:	905.00					



IRONDALE LIBRARY

IRONDALE, AL, USA

DATE: 01/30/2024

DRAWN: EM

PROJECT # : S388993

CHECKED: RKC

DESCRIPTION	CHK	DATE	DRW

StormTech®
Chamber System

888-892-2694 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD
HILLIARD, OH 43026
1-800-733-7473

ADS

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

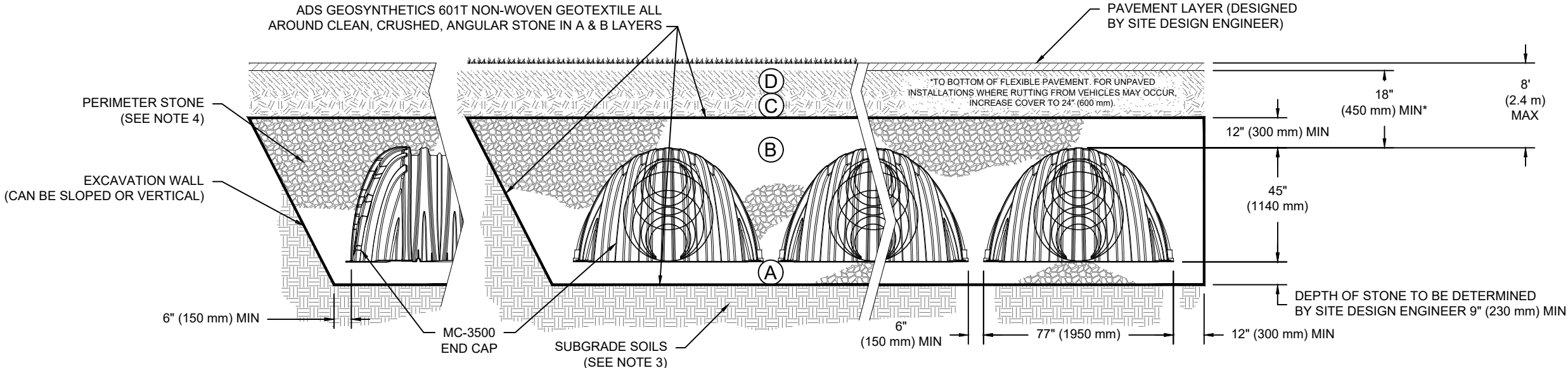
SHEET
2 OF 6

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

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<p>ENTATIVE. THE SITE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE PREPARATION OF THE SITE DESIGN REQUIREMENTS, AND PROJECT REQUIREMENTS.</p>

CHK

DRW

TE

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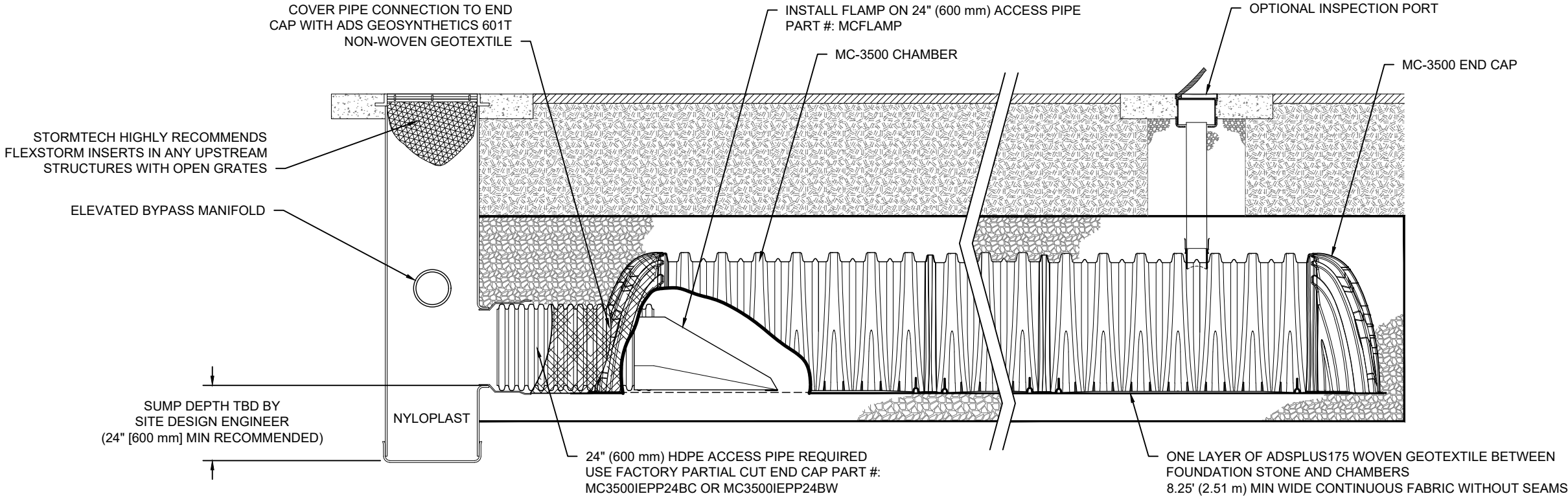
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3 OF 6

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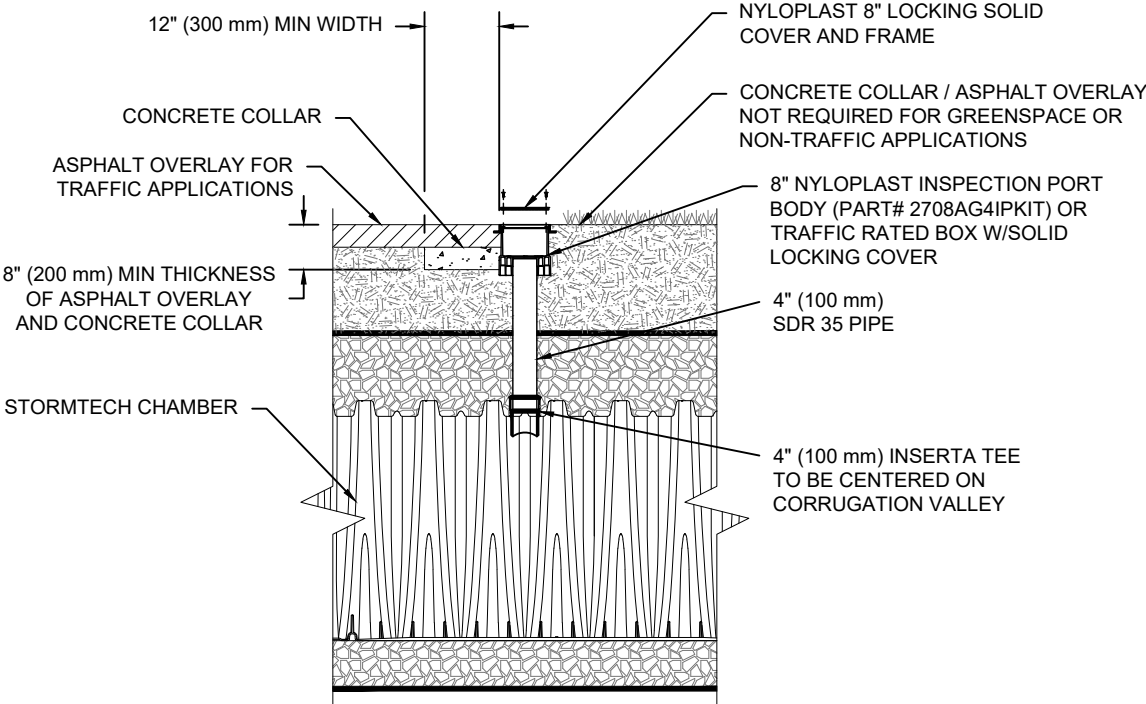
MC-3500 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
 - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - B. ALL ISOLATOR PLUS ROWS
 - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4" PVC INSPECTION PORT DETAIL
(MC SERIES CHAMBER)
NTS

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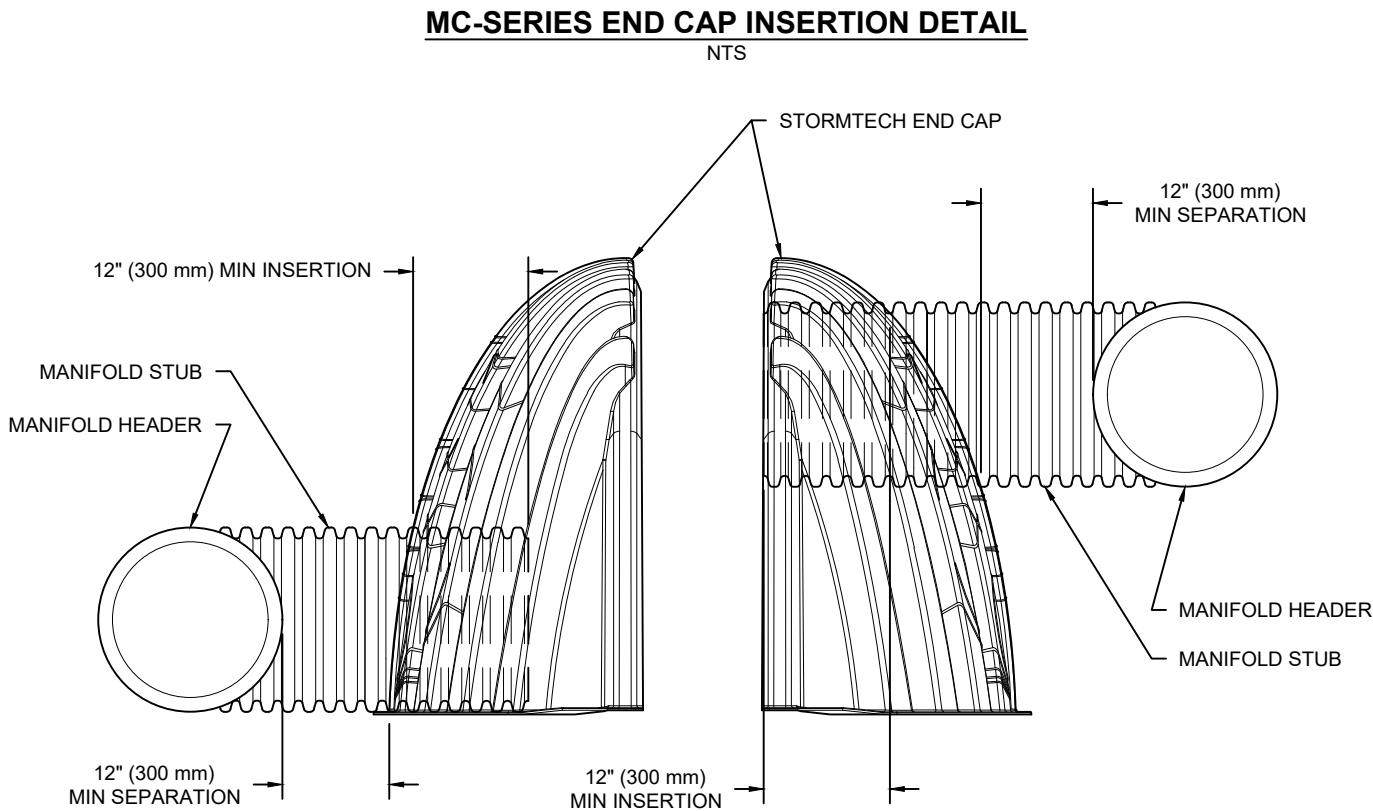
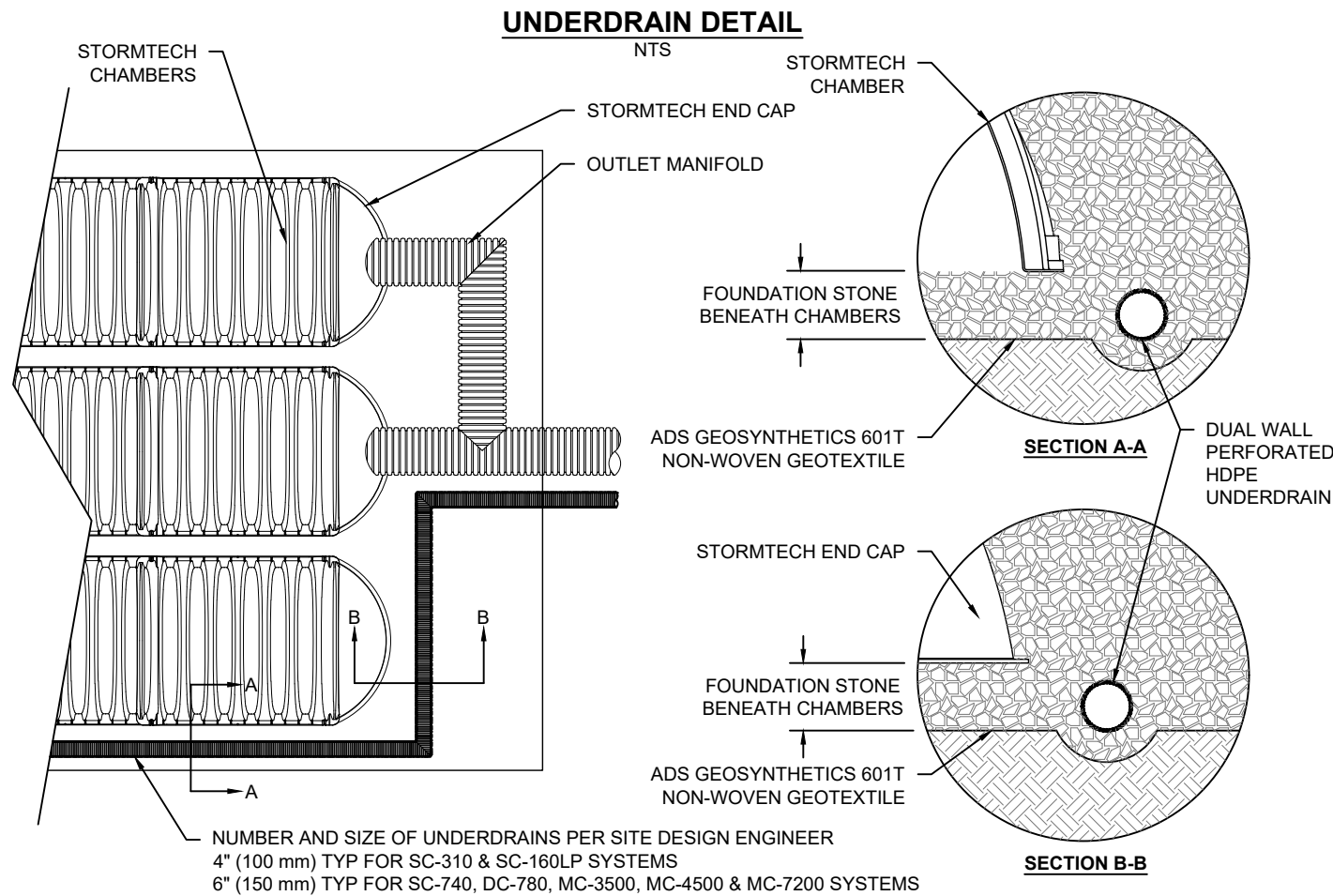
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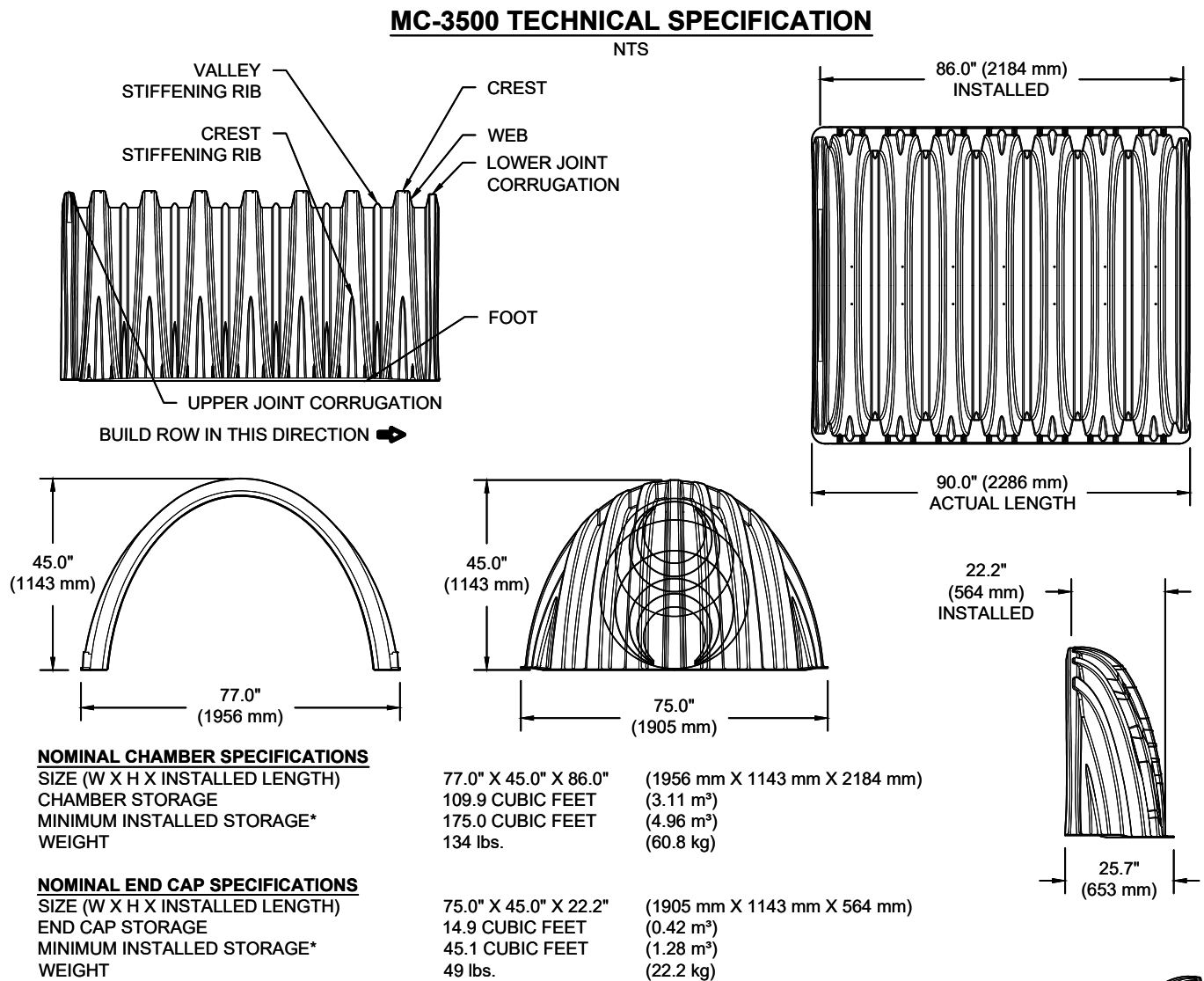
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NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.



*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" SPACING BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW		---	1.77" (45 mm)
MC3500IEPP18BC			
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW		---	2.06" (52 mm)
MC3500IEPP24BC			
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

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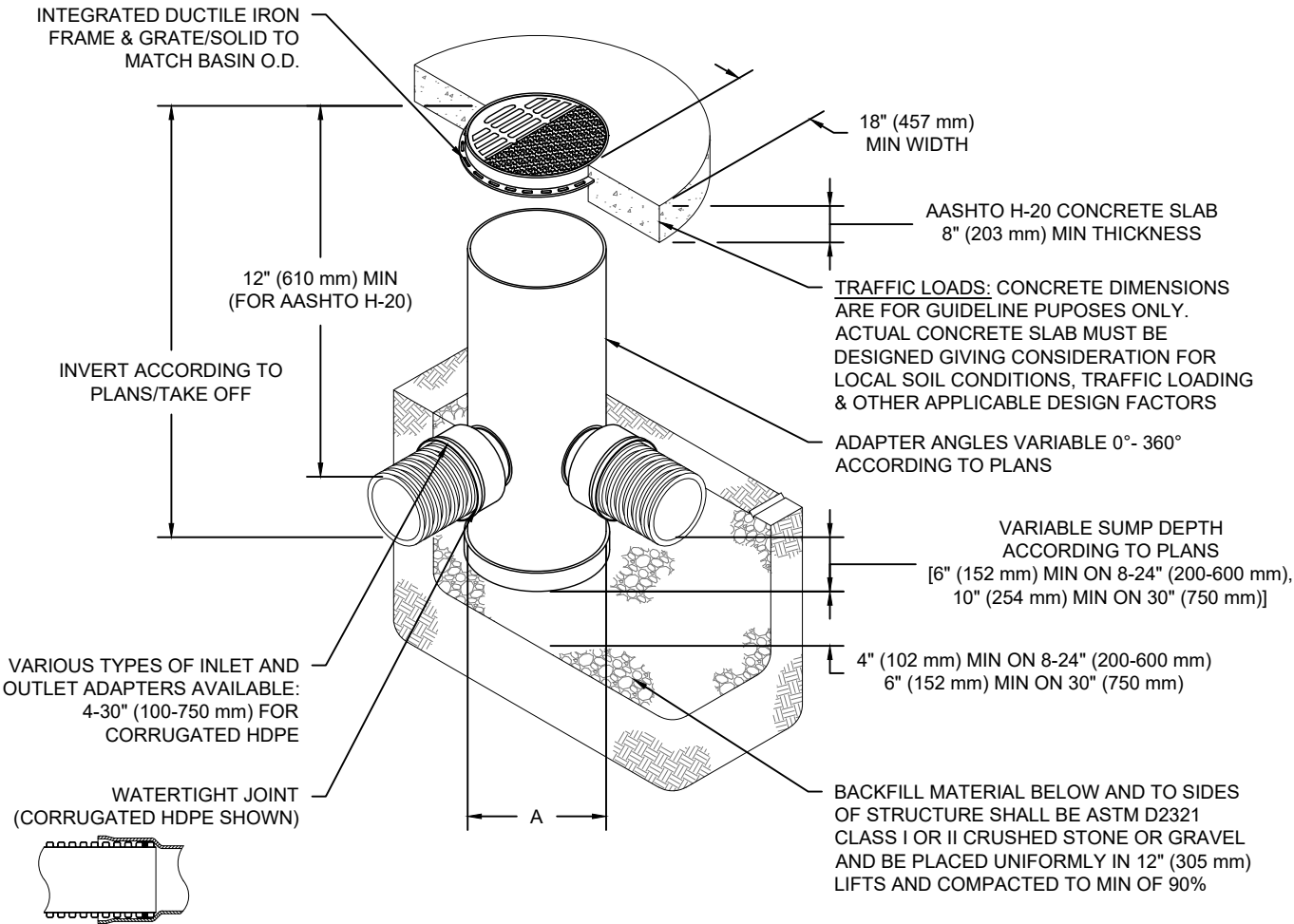
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5 OF 6

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NYLOPLAST DRAIN BASIN

NTS



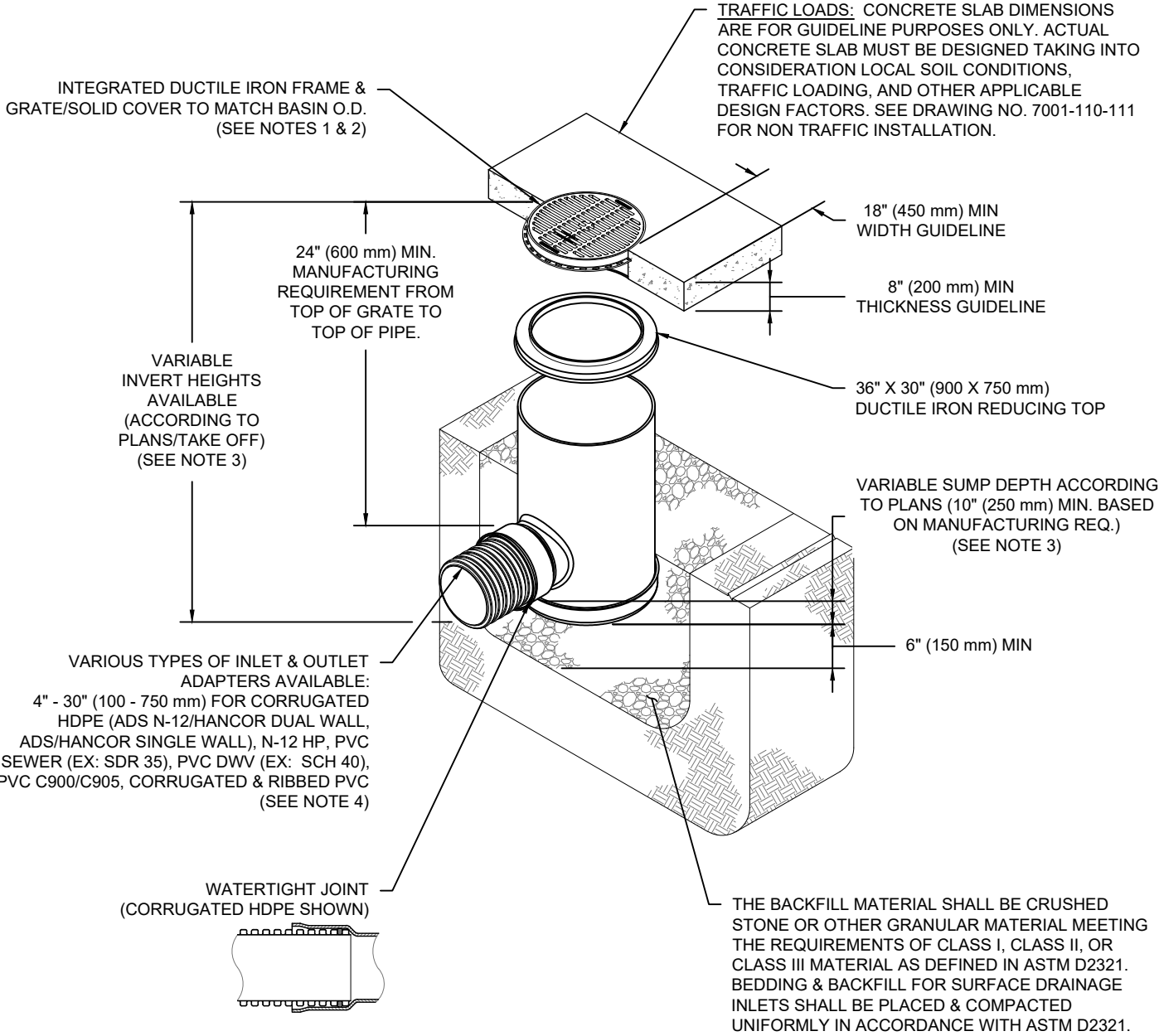
NOTES

- 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION: WWW.NYLOPLAST-US.COM
- TO ORDER CALL: 800-821-6710

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

36" (900 mm) NYLOPLAST DRAIN BASIN

NTS



NOTES

- GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" (2.13 m) DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

GRATE OPTION	LOAD RATING	PART #	DWG #
PEDESTRIAN	MEETS H-20	3099CGP	7001-110-220
STANDARD	MEETS H-20	3099CGS	7001-110-221
SOLID COVER	MEETS H-20	3099CGC	7001-110-222
DOME	N/A	3099CGD	7001-110-223

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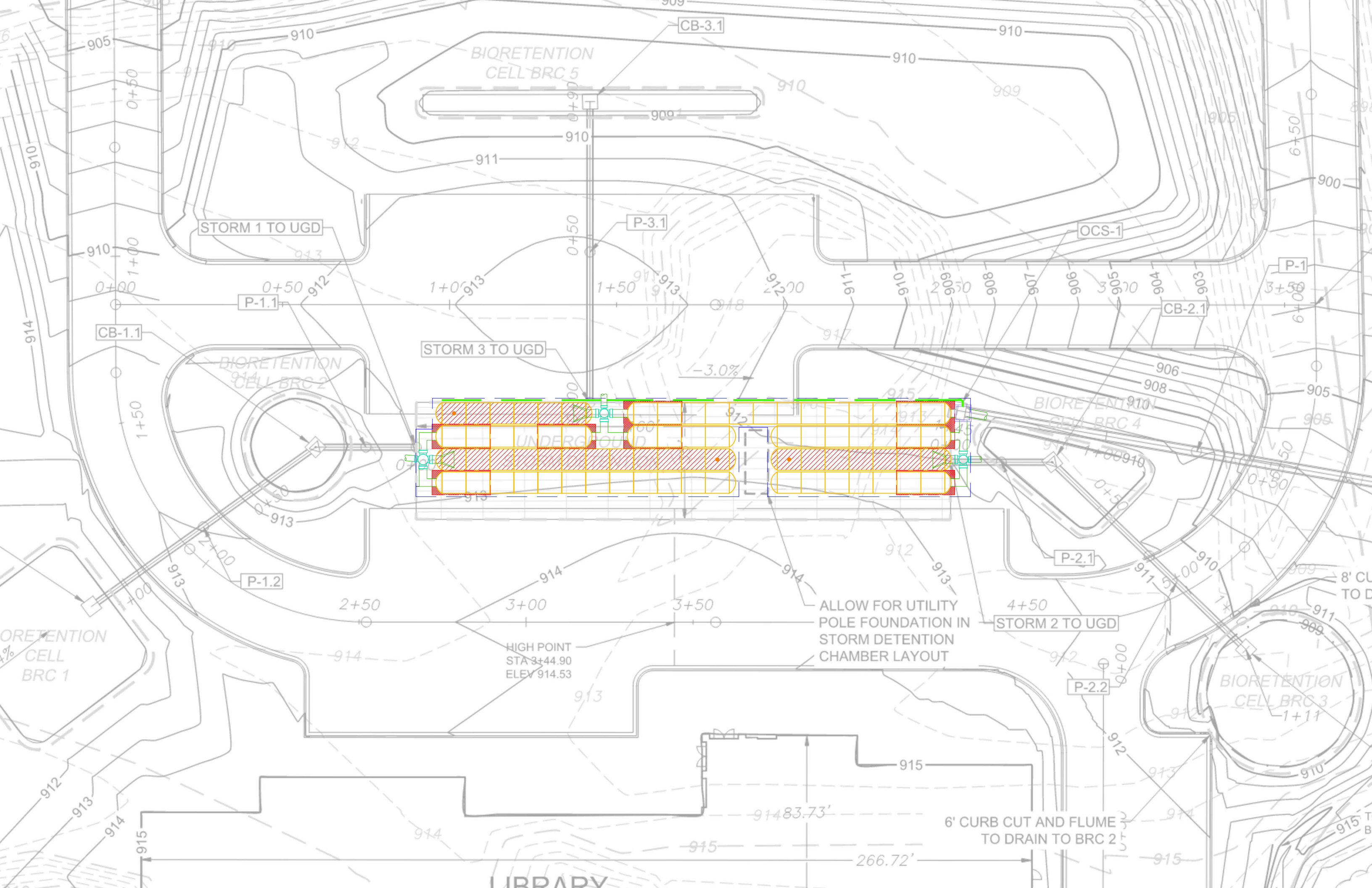
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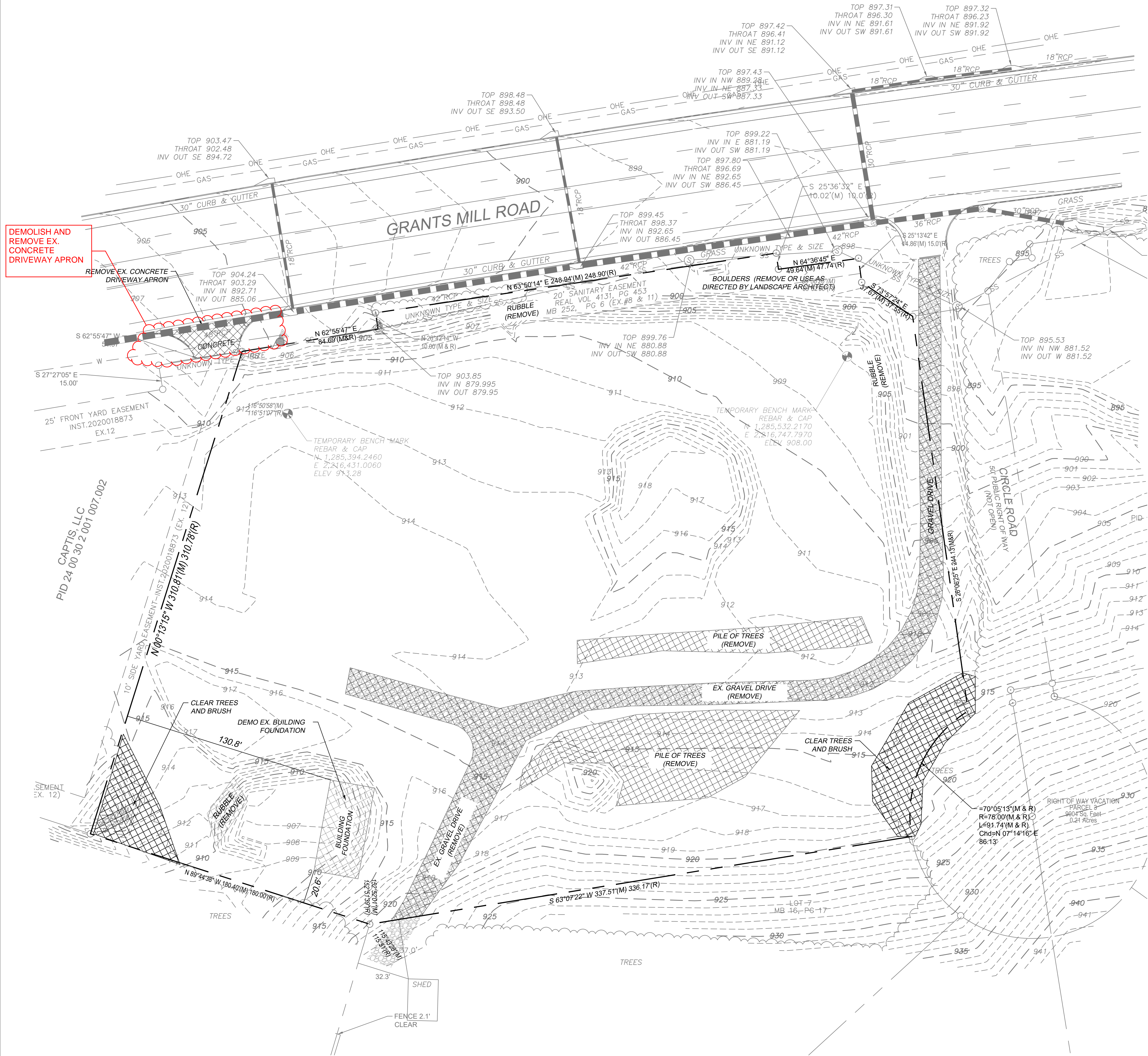


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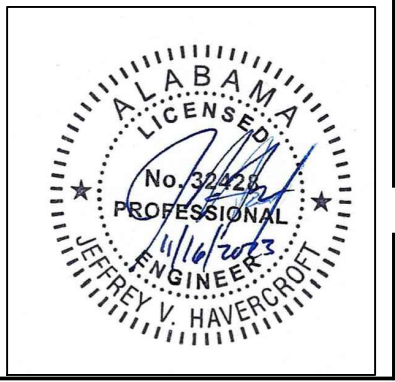




DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AND PIPING WHICH MIGHT INTERFERE WITH DEMOLITION. ANY DAMAGES TO UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS.
- 3. ALL EXISTING PUBLIC SIDEWALKS ARE TO REMAIN IN PLACE AND TO REMAIN ACCESSIBLE FOR PEDESTRIAN TRAFFIC DURING DEMOLITION.
- 4. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
- 5. TREES TO BE DEMOLISHED SHALL BE CLEARED AND GRUBBED. NO BURNING SHALL BE ALLOWED ON OWNERS PROPERTY. ALL TREE AND VEGETATION LOCATIONS ARE APPROXIMATE.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST OF THE RELOCATION OF ALL UTILITIES ALONG THE RIGHT OF WAY AND ON THE SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO, SIGNAL POLES, SIGNAL CONTROLS, DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, ETC.
- 7. CONTRACTOR SHALL MAINTAIN SITE SECURITY BY CONTRACTOR'S OWN MEANS AND METHODS. ALL WORK, INCLUDING MATERIAL STORAGE, SHALL BE KEPT WITHIN THE SECURED AREA. CONTRACTOR SHALL RESTORE THE CONSTRUCTION AREA TO A CONDITION ACCEPTABLE TO THE OWNER.
- 8. ALL UTILITY WORK & MATERIALS SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE PERTINENT UTILITY.
- 9. ALL MANHOLE AND VALVE BOXES THAT ARE TO REMAIN ARE NOT TO BE BURIED AND FINAL GRADING SHALL BE ADJUSTED TO MATCH THOSE ELEVATIONS.
- 10. DEMOLITION OF ANY/ALL CONCRETE AND/OR ASPHALT SIDEWALKS, DRIVEWAYS, ETC. SHALL INCLUDE CLEAN CUTS AT LOCATIONS ABUTTING PUBLIC, OR OTHERWISE, SIDEWALKS AND/OR DRIVEWAYS, WHICH ARE TO REMAIN IN PLACE.
- 11. CONTRACTOR SHALL BE REQUIRED TO OBTAIN AND PAY FOR ALL PERMITS NECESSARY TO PERFORM THE WORK.
- 12. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL, WHICH SHALL BE IN ACCORDANCE WITH THE CITY OF BIRMINGHAM AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
- 13. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST FROM THE PROJECT SO THAT IT DOES NOT POSE A HAZARD TO PEDESTRIAN AND VEHICLE TRAFFIC OR TO THE SURROUNDING BUILDING ENVIRONMENT. CONTRACTOR SHOULD CONTROL DUST SO THAT THESE AREAS ARE NOT AFFECTED BY DUST FROM THE DEMOLITION PROCESS.
- 14. UNLESS OTHERWISE NOTED, ALL UTILITIES OUTSIDE THE PROPERTY LINE ARE TO REMAIN AND FUNCTION THROUGHOUT THE DEMOLITION PROCESS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING SAID UTILITIES PRIOR TO THE DEMOLITION PROCESS.

Revisions		
No.	Date	Description
4	2/6/2024	Addendum



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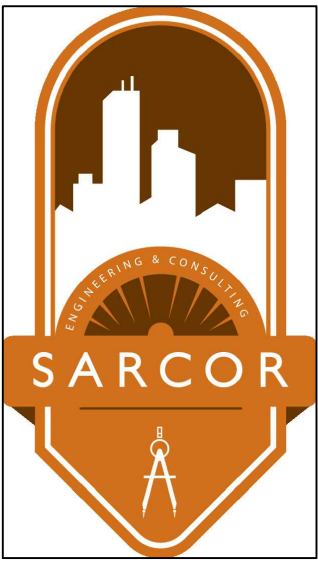
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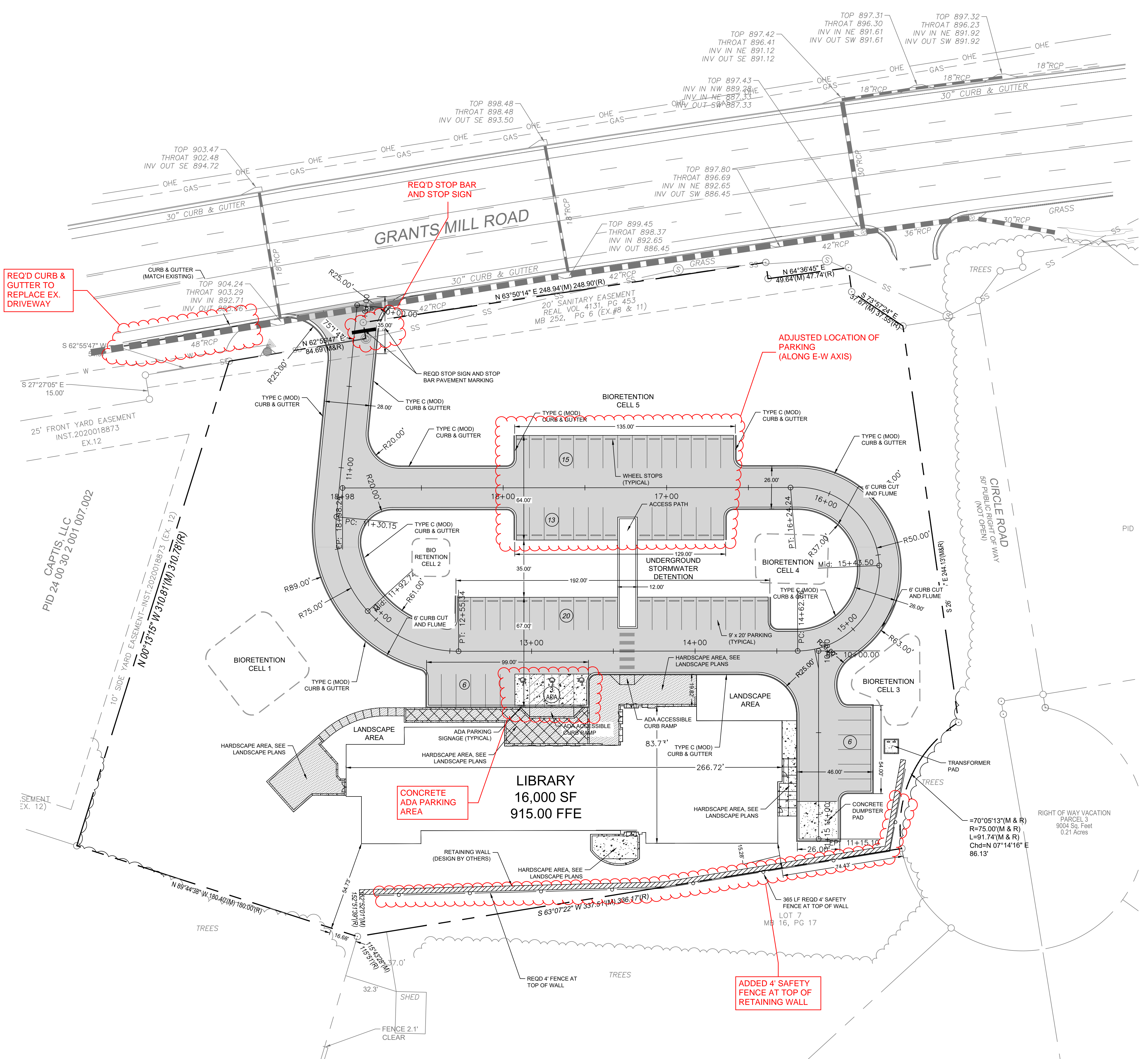
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FAX: 205-250-0515

SHEET TITLE:	
EX. CONDITIONS / DEMOLITION PLAN	
PROJECT NUMBER:	
2022-08	
DATE:	
11/16/23	
DRAWN BY:	
JH/GP	
CHECKED BY:	
JH	

SHEET NUMBER

C1.01





SITE NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SITE WORK SPECIFICATIONS AND SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- REFERENCE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS, STEPS, TRANSFORMER PADS, ADDITIONAL SITEWORK, ALTERNATE INFORMATION, etc.
- TOPOGRAPHIC BOUNDARY SURVEY, PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES, AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY SAIN ASSOCIATES. SARCOR, LLC. IS NOT RESPONSIBLE FOR THE ACCURACY.
- ALL DIMENSIONS AND RADII ARE TO THE FACE OF THE CURB UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHOWN TO THE BUILDINGS ARE TO THE OUTSIDE FACE OF BUILDING.
- ALL HANDICAP ACCESSIBLE PARKING SIGNS AND STRIPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITY ACT (ADA).
- ALL TRAFFIC SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD AND SPECIAL DRAWINGS.
- ALL STRIPED AND CURBED RADII SHALL BE 5' UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ANY EXISTING IMPROVEMENTS, ONSITE OR OFF SITE, SUCH AS PAVEMENT, UTILITIES, STORM DRAINAGE, etc. THE REPAIR MUST BE APPROVED BY THE ENGINEER AND BE EQUAL OR BETTER THAN EXISTING CONDITIONS.
- CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
- SITE CONTRACTOR SHALL SUPPLY AS-BUILT PLANS INDICATING ALL CHANGES AND DEVIATIONS.
- ANY DEVIATION FROM THESE PLANS MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- ANY UNANTICIPATED CONDITIONS ENCOUNTERED DURING THE CONSTRUCTION PROCESS SHALL BE IDENTIFIED AND THE ENGINEER NOTIFIED IMMEDIATELY.
- CONCRETE USED FOR SIDEWALK AND CONCRETE PADS SHALL BE 3,000 PSI 28 DAY COMPRESSIVE STRENGTH. CONCRETE USED FOR CONCRETE APRONS/DRIVEWAYS SHALL BE 4,000 PSI 28 DAY COMPRESSIVE STRENGTH.
- PROJECT SIGNAGE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- ALL CURB AND GUTTER WITHIN THE DEVELOPMENT SHALL BE 18".
- PARKING LOT STRIPING SHALL BE INCLUDED IN THE PAVING CONTRACTOR'S SCOPE OF WORK. STRIPING WILL BE ACCORDING TO OWNER'S SPECIFICATION UNLESS NOTED OTHERWISE. ALL STRIPING IS TO HAVE TWO (2) COATS OF PAINT (MIN).
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL OFF SITE EASEMENTS NOT DELINEATED ON THE PLANS OR KNOWN OF AT TIME OF PLAN ISSUANCE.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL WORK AND APPURTENANCE TO WITHIN 5' OF THE BUILDING. THIS INCLUDES TRANSFORMER AND DUMPSTER PADS AS WELL AS UTILITY CONDUITS.

Revisions		
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4	2/6/2024	Addendum



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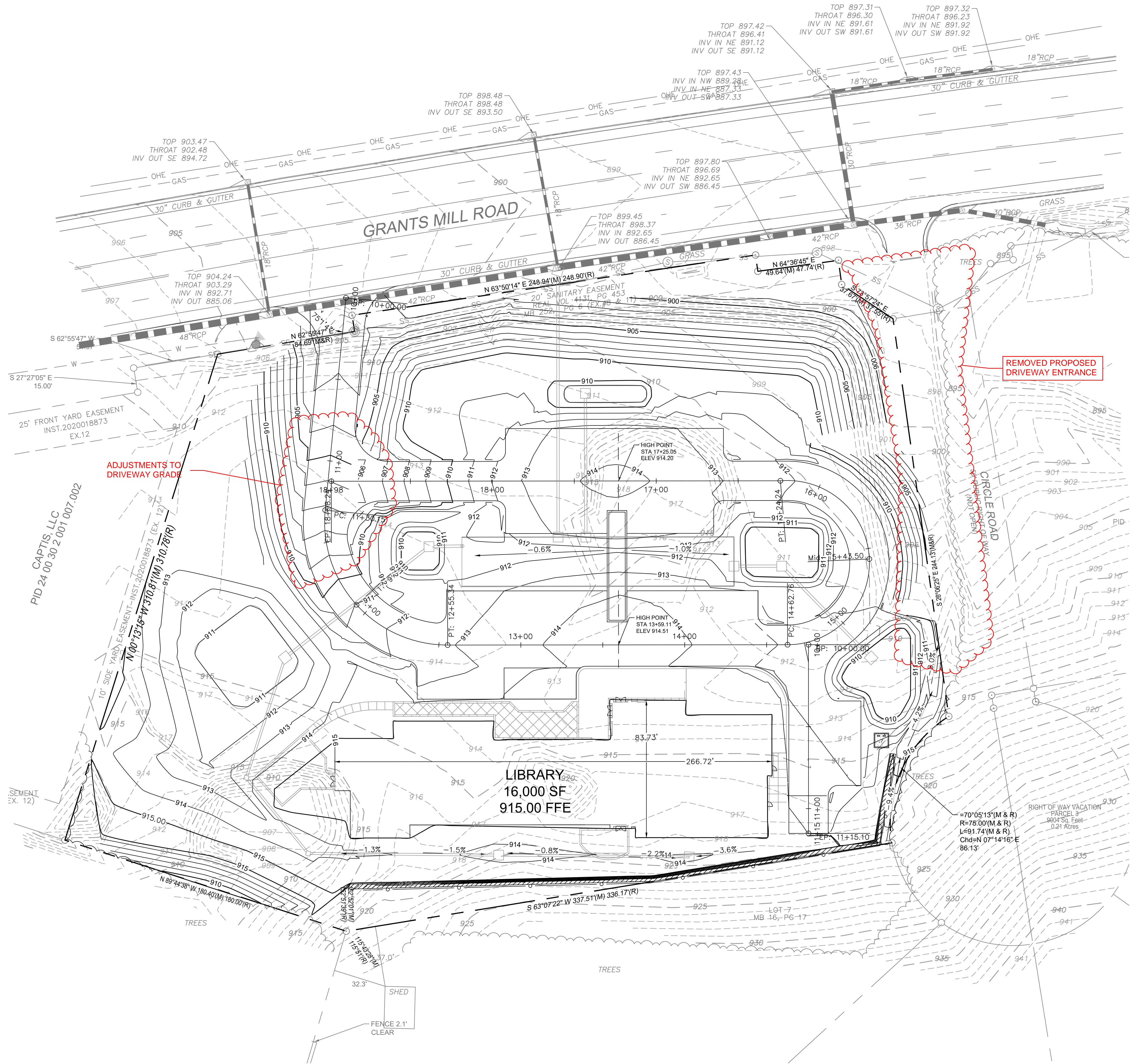
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FAX: 205-250-0515

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PROJECT NUMBER: 2022-08	
DATE: 11/16/23	
DRAWN BY: JH/GP	CHECKED BY: JH

SHEET NUMBER C2.01	
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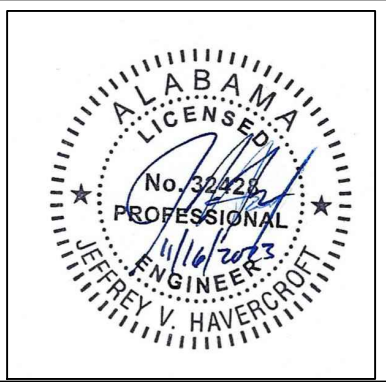




GRADING NOTES

- ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS NOT ACCEPTABLE TO THE OWNER AND ENGINEER.
- IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE CONTRACTOR SHALL MAKE A TOPOGRAPHIC SURVEY AT THEIR OWN EXPENSE AND SUBMIT IT TO THE OWNER FOR REVIEW.
- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
- CONTRACTOR SHALL PROVIDE DRAINAGE AWAY FROM THE BUILDINGS.
- PRECAST STRUCTURES MAY BE USED AT THE CONTRACTORS OPTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST OF THE RELOCATION OF ALL UTILITIES ALONG THE RIGHT OF WAY AND ON THE SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO SIGNAL POLES, SIGNAL CONTROLS, DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, AND ETC.
- THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL PLANS AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- ALL SLOPES AND DISTURBED AREAS NOT COVERED BY BUILDING OR PAVEMENT SHALL BE GRADED SMOOTH AND RECEIVE 6" OF TOPSOIL, OR AS SHOWN ON LANDSCAPE PLANS. CONTRACTOR TO PROVIDE TOPSOIL IF NOT AVAILABLE ON SITE. THE AREAS SHALL BE SEEDED, MULCHED, FERTILIZED, AND WATERED TO PROVIDE A HEARTY MOWABLE STAND OF GRASS. SMALL ROCKS MUST BE REMOVED. ANY AREA DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- SPOIL FROM THE FOOTINGS IS THE SITE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR IS TO USE THE SOIL ON SITE OR REMOVE IT FROM THE SITE.
- EARTHWORK SHALL BE ON AN UNCLASSIFIED BASIS.
- THIS GRADING PLAN WAS PRODUCED WITH REFERENCE TO THE JUNE 14, 2017 AND DECEMBER 20, 2022 GEOTECHNICAL REPORTS BY BECC, INC.

Revisions		
No.	Date	Description
4	2/6/2024	Addendum



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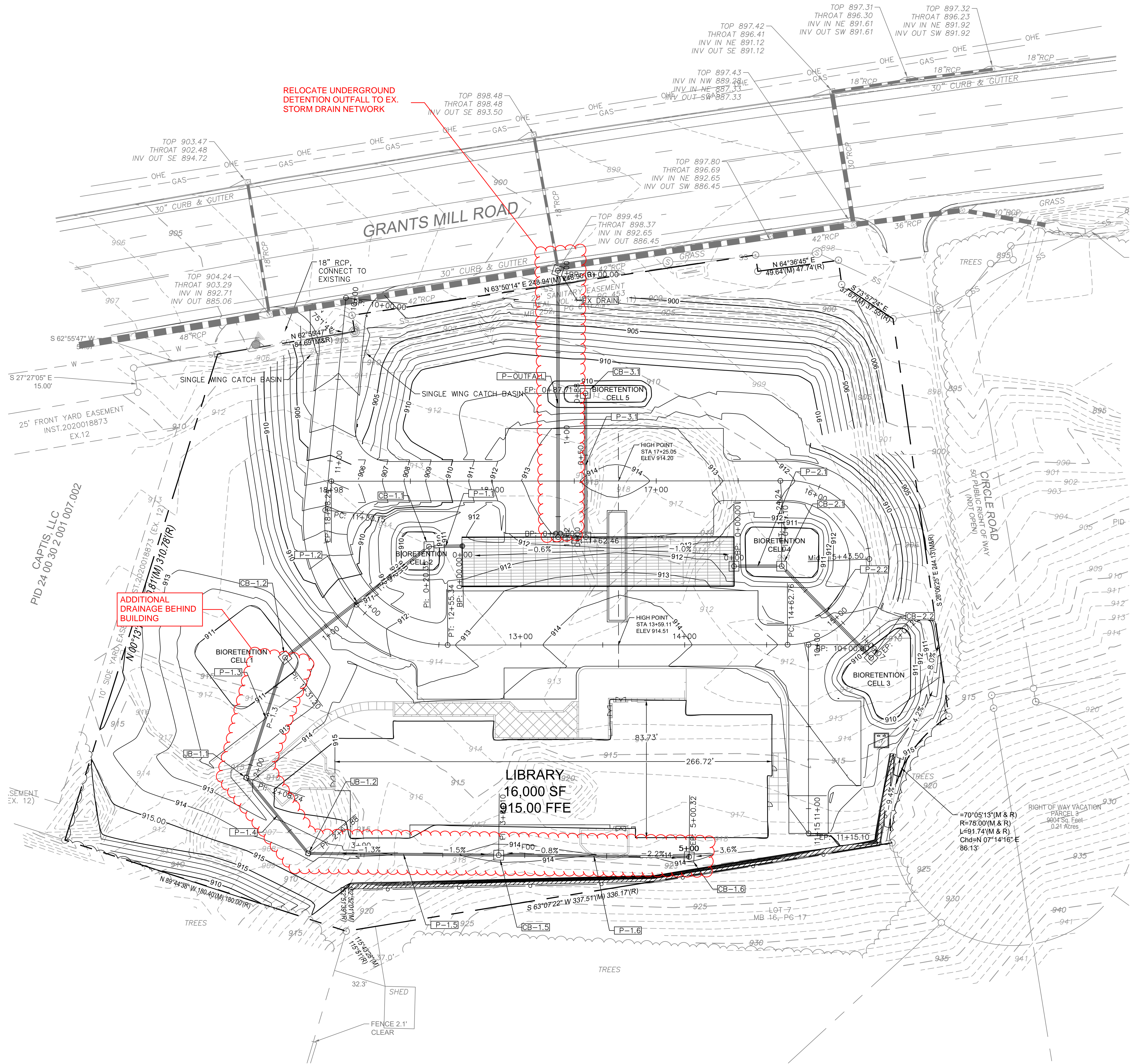
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CWC
CHARLES WILLIAMS & ASSOCIATES ARCHITECTS
3601 8TH AVE. SOUTH
BIRMINGHAM, ALABAMA 35222
PH: 205-250-0700
FAX: 205-250-0515

SHEET TITLE: GRADING PLAN	
PROJECT NUMBER: 2022-08	
DATE: 11/16/23	
DRAWN BY: JH/GP	CHECKED BY: JH

SHEET NUMBER
C4.01





GRADING NOTES

1. ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS NOT ACCEPTABLE TO THE OWNER AND ENGINEER.
3. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE CONTRACTOR SHALL MAKE A TOPOGRAPHIC SURVEY AT THEIR OWN EXPENSE AND SUBMIT IT TO THE OWNER FOR REVIEW.
4. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
5. CONTRACTOR SHALL PROVIDE DRAINAGE AWAY FROM THE BUILDINGS.
6. PRECAST STRUCTURES MAY BE USED AT THE CONTRACTORS OPTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST OF THE RELOCATION OF ALL UTILITIES ALONG THE RIGHT OF WAY AND ON THE SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO SIGNAL POLES, SIGNAL CONTROLS, DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, AND ETC.
8. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL PLANS AND SPECIFICATIONS.
9. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
10. ALL SLOPES AND DISTURBED AREAS NOT COVERED BY BUILDING OR PAVEMENT SHALL BE GRADED SMOOTH AND RECEIVE 6" OF TOPSOIL, OR AS SHOWN ON LANDSCAPE PLANS. CONTRACTOR TO PROVIDE TOPSOIL IF NOT AVAILABLE ON SITE. THE AREAS SHALL BE SEEDED, MULCHED, FERTILIZED, AND WATERED TO PROVIDE A HEARTY MOWABLE STAND OF GRASS. SMALL ROCKS MUST BE REMOVED. ANY AREA DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
11. SPOIL FROM THE FOOTINGS IS THE SITE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR IS TO USE THE SOIL ON SITE OR REMOVE IT FROM THE SITE.
12. EARTHWORK SHALL BE ON AN UNCLASSIFIED BASIS.
13. THIS GRADING PLAN WAS PRODUCED WITH REFERENCE TO THE JUNE 14, 2017 AND DECEMBER 20, 2022 GEOTECHNICAL REPORTS BY BECC, INC.

Revisions		
No.	Date	Description
4	2/6/2024	Addendum



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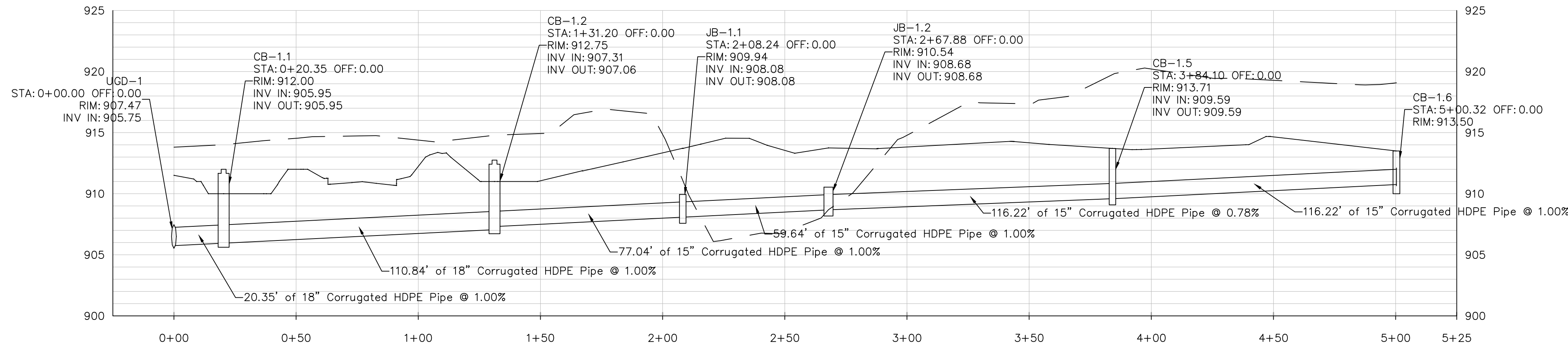
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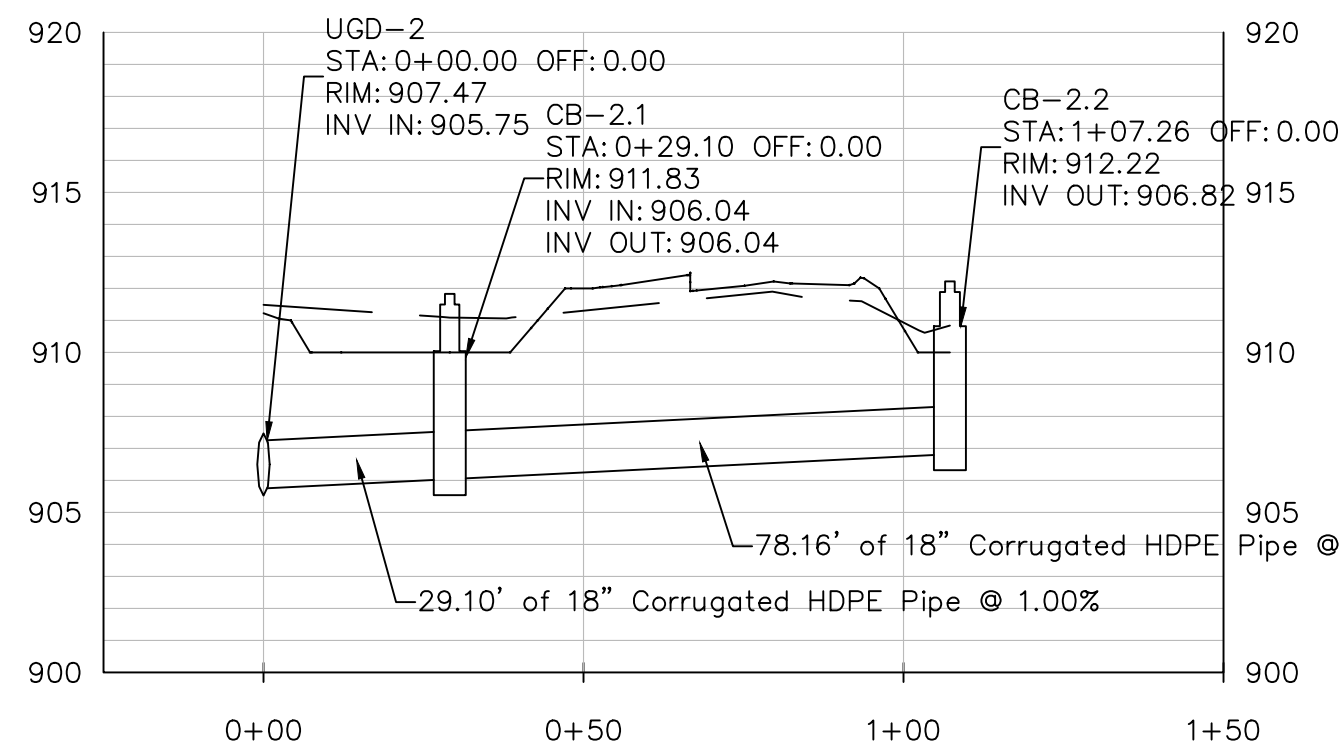
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PROJECT NUMBER: 2022-08	
DATE: 11/16/23	
DRAWN BY: JH/GP	CHECKED BY: JH

SHEET NUMBER
C5.01

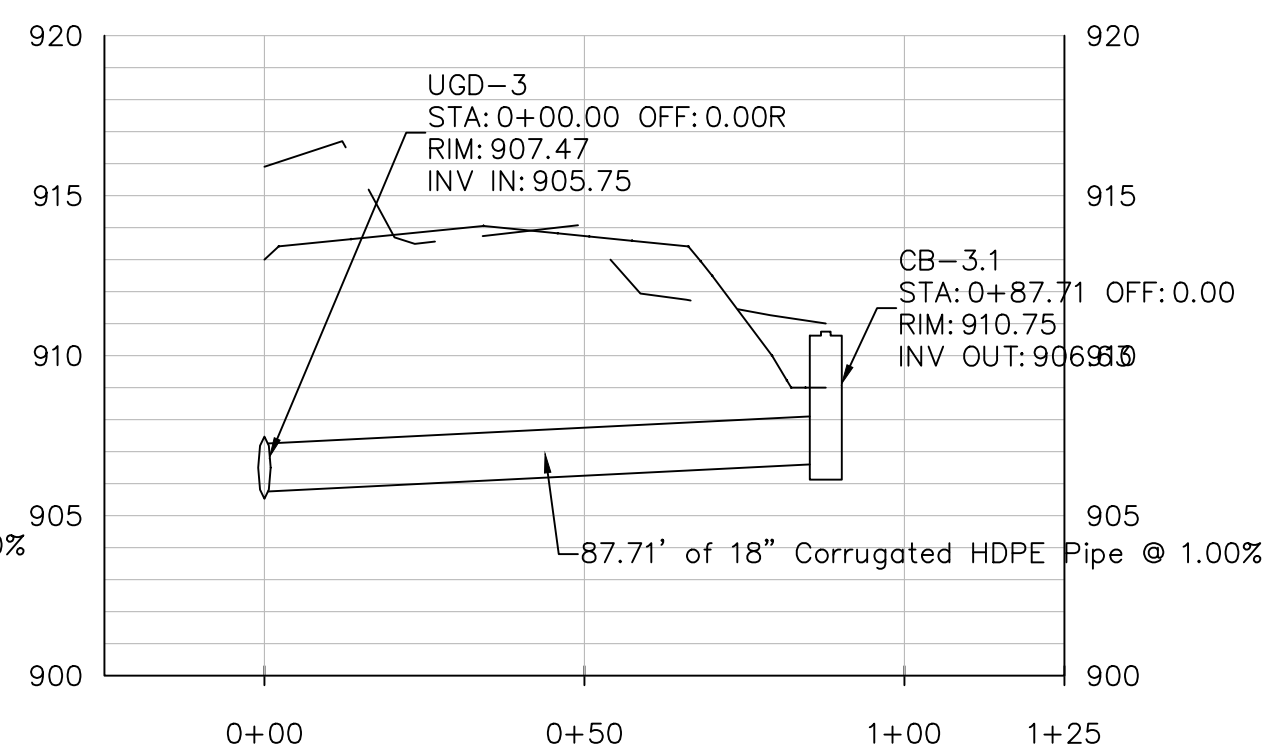




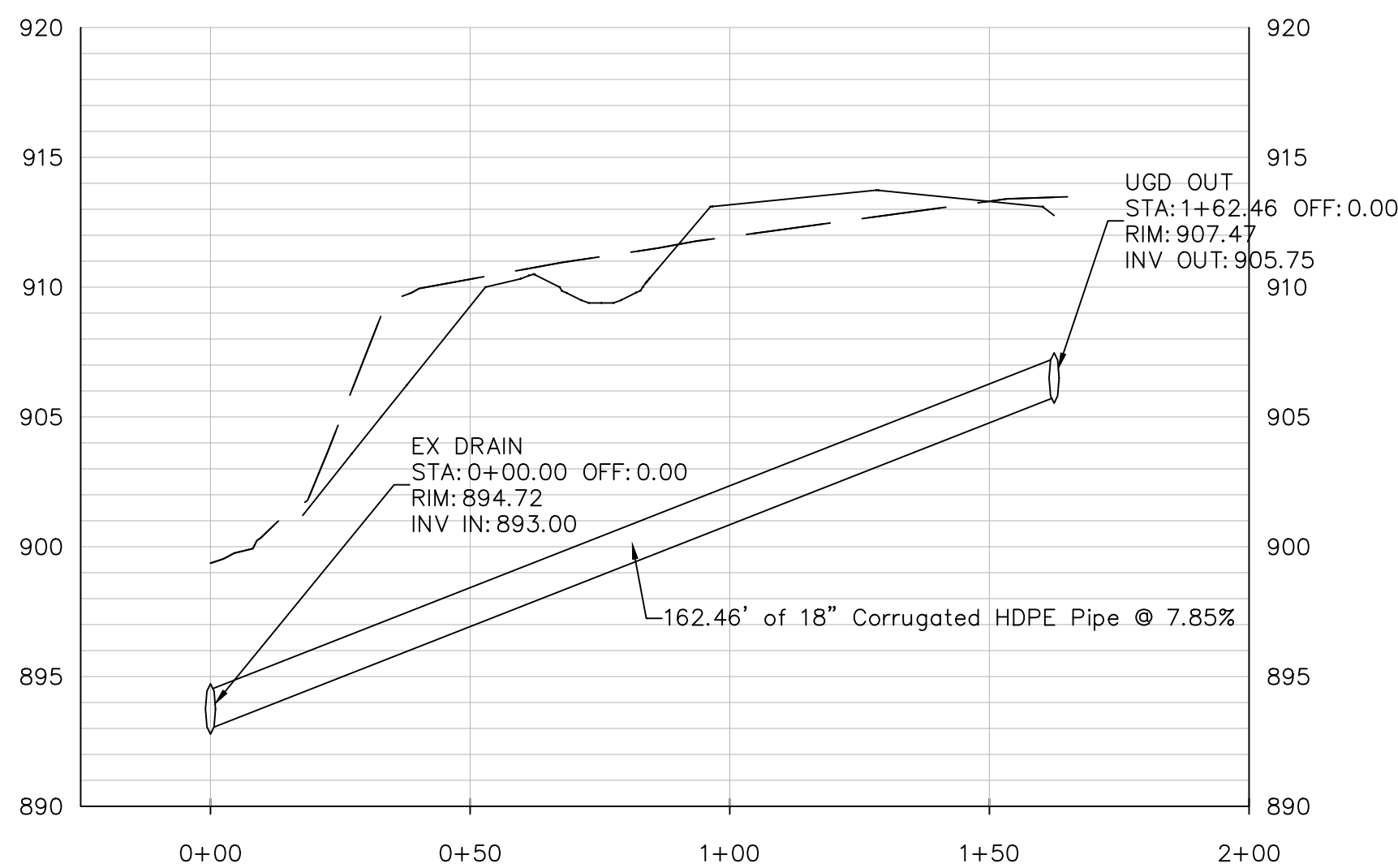
STORM 1 PROFILE



STORM 2 PROFILE

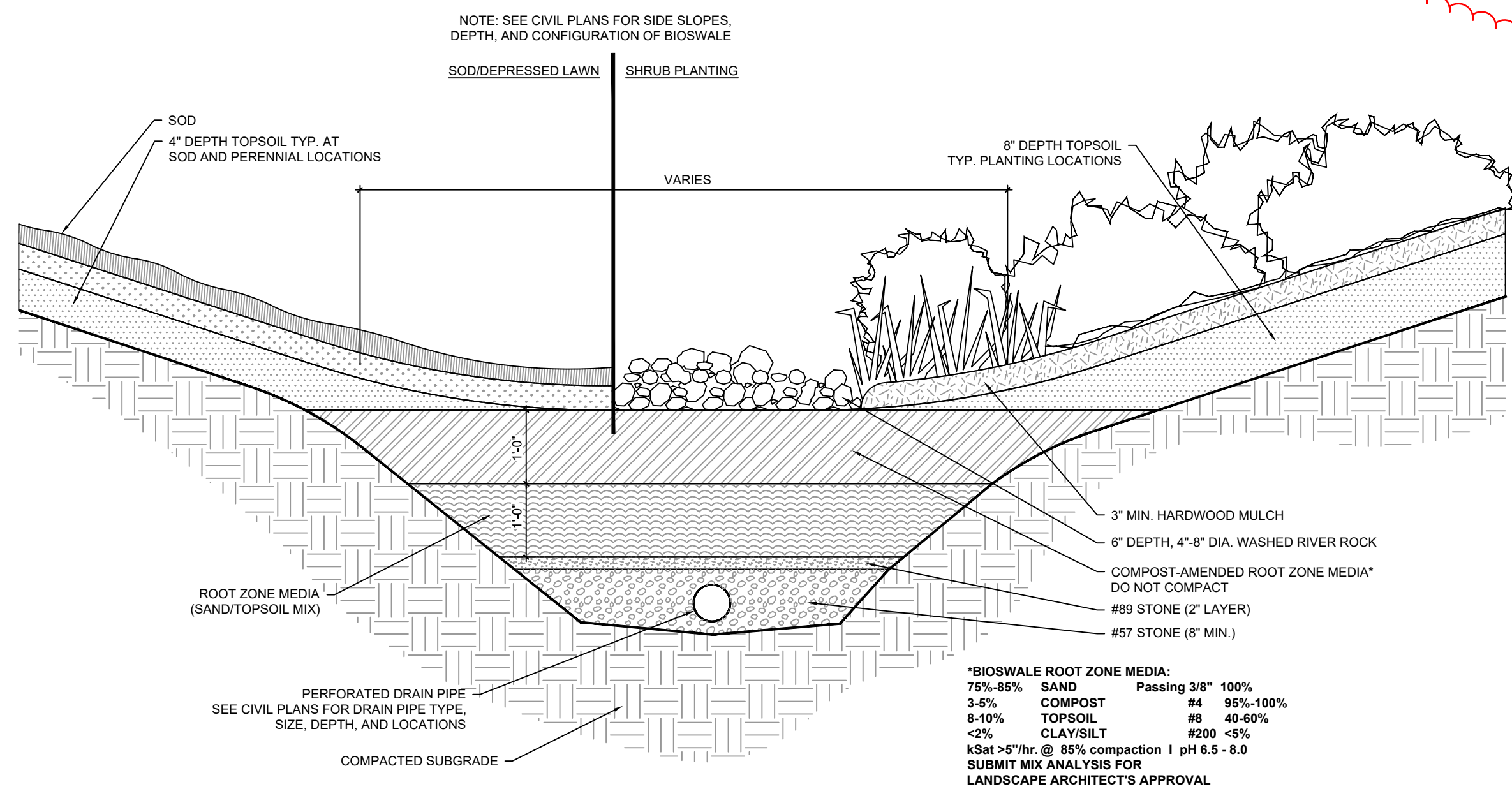


STORM 3 PROFILE



STORM OUTFALL PROFILE

BIOSWALE DETAIL



BIORETENTION CELL SOIL PROFILE

BIORETENTION CELL	LENGTH	WIDTH	SURFACE AREA	SIDE SLOPE	MEDIA DEPTH	89 STONE	57 STONE	UNDERDRAIN DIA
1	48	48	2304	2:1	2	0.17	0.67	4IN
2	22	22	484	2:1	2	0.17	0.67	4IN
3	IRREGULAR SHAPE		1470	2:1	2	0.17	0.67	4IN
4	45	30	1350	2:1	2	0.17	0.67	4IN
5	50	10	500	2:1	2	0.17	0.67	4IN

Revisions		
No.	Date	Description
4	2/6/2024	Addendum



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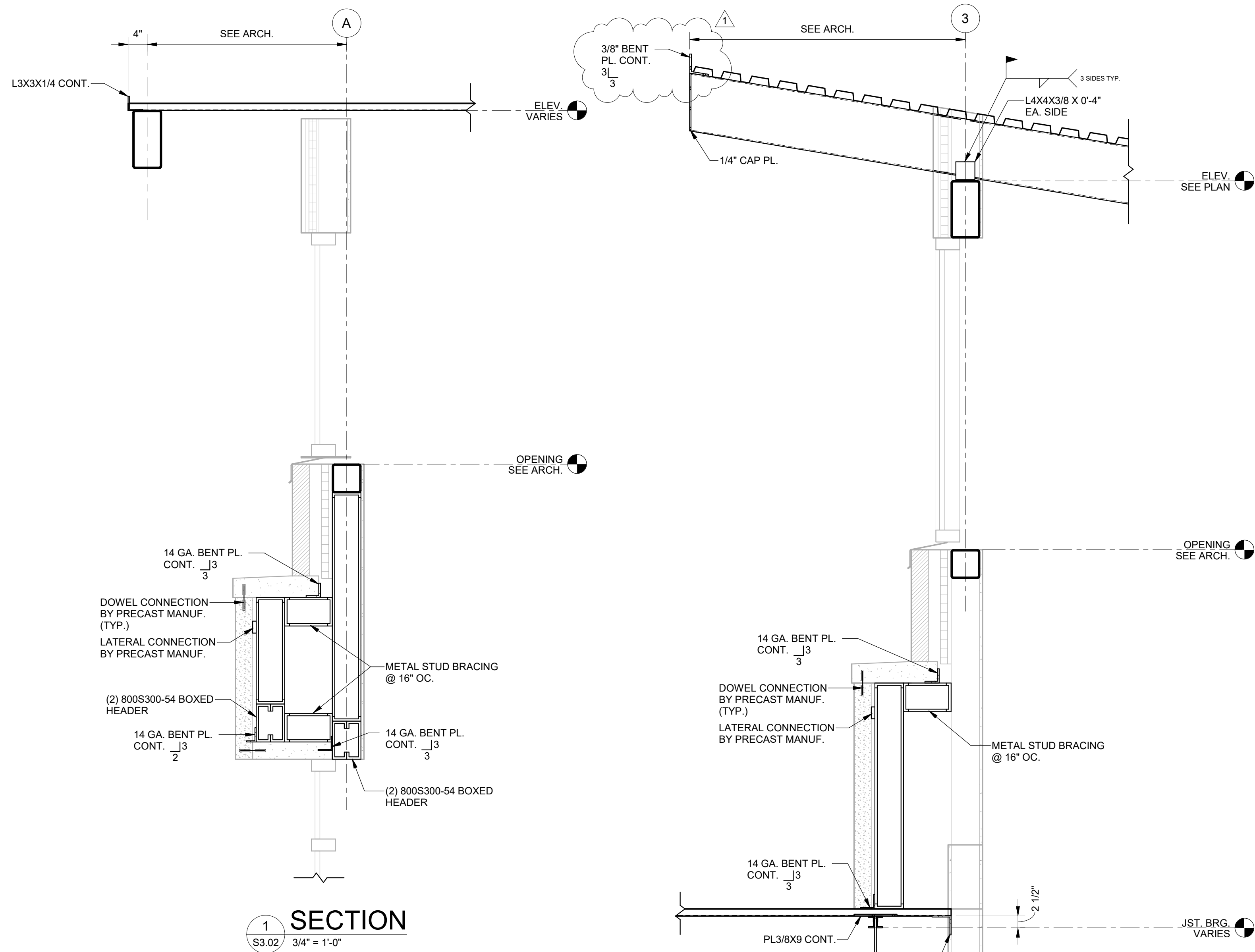
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FAX: 205-250-0515

SHEET TITLE:	
DRAINAGE PROFILES	
PROJECT NUMBER:	
2022-08	
DATE:	
11/16/23	
DRAWN BY:	CHECKED BY:
JH/GP	JH

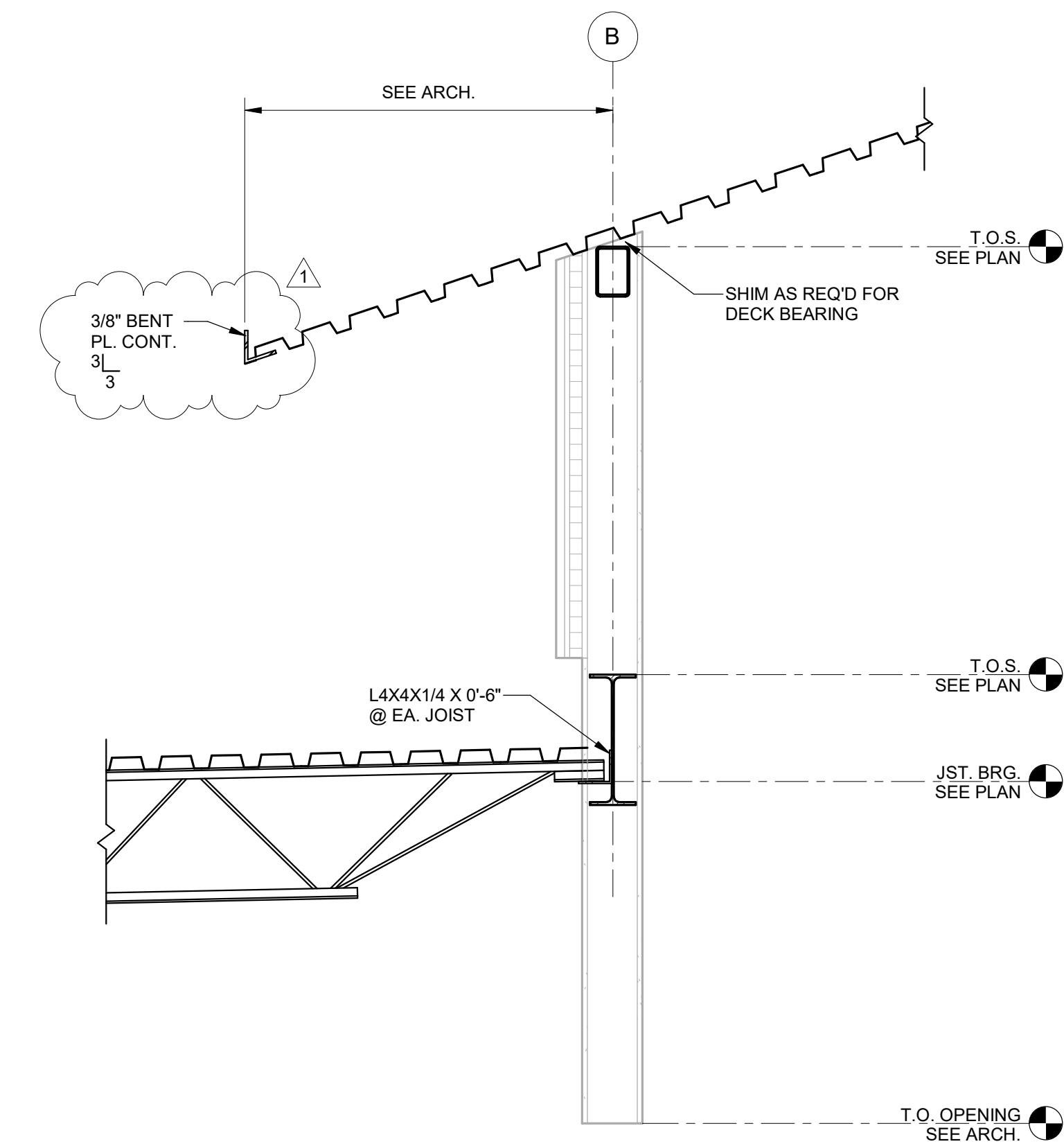
SHEET NUMBER

C5.02

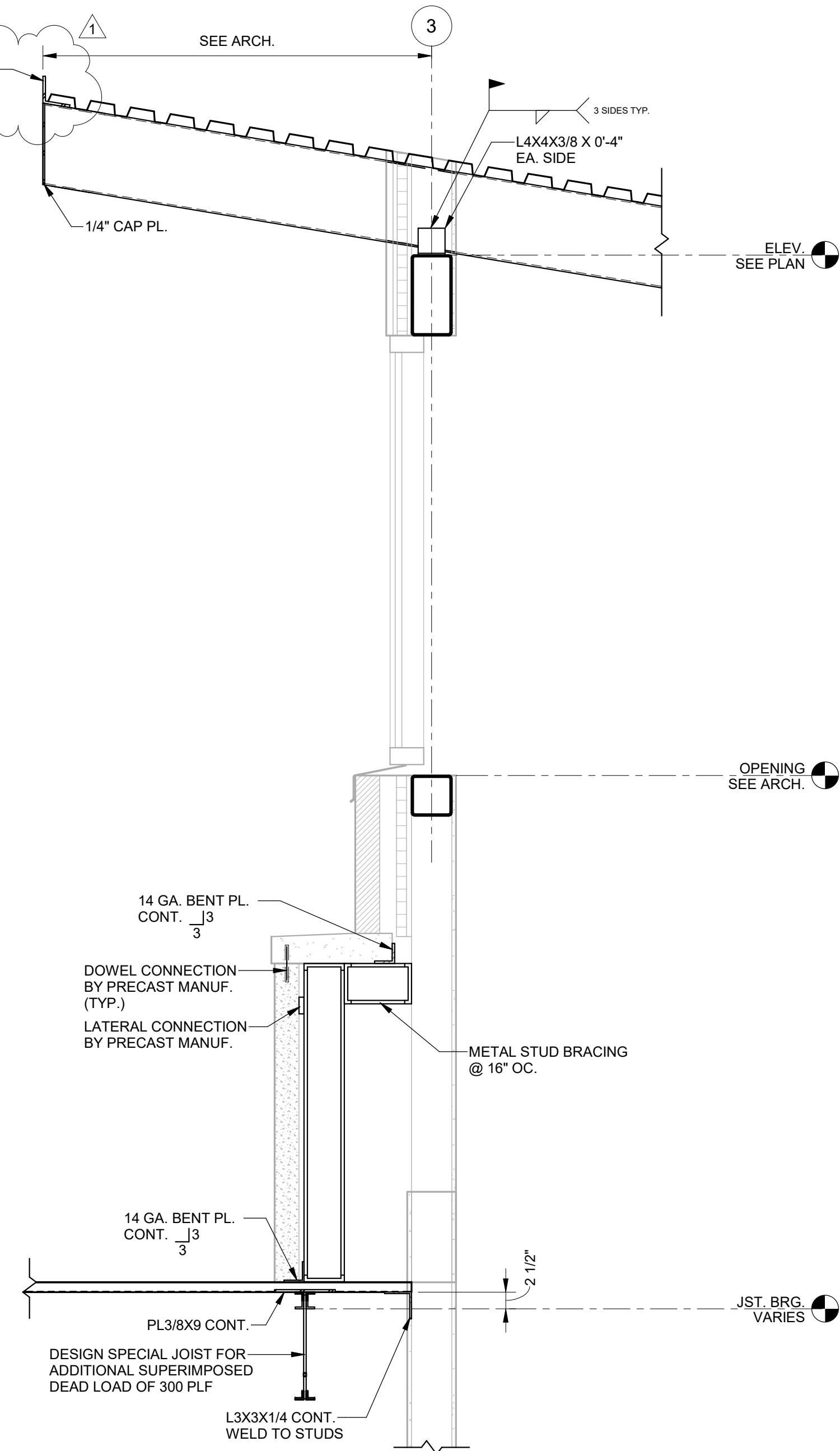




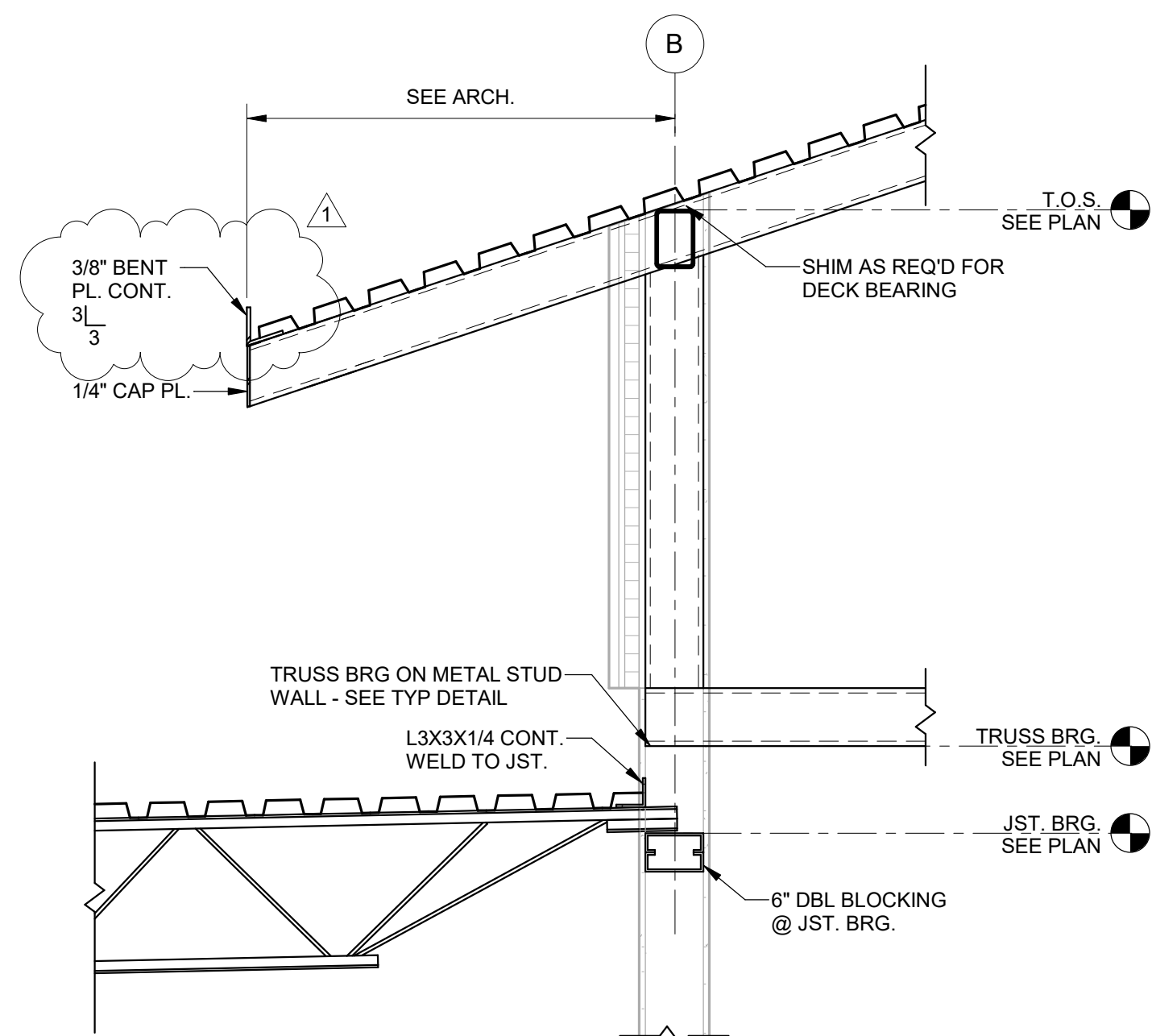
1 SECTION
S3.02 3/4" = 1'-0"



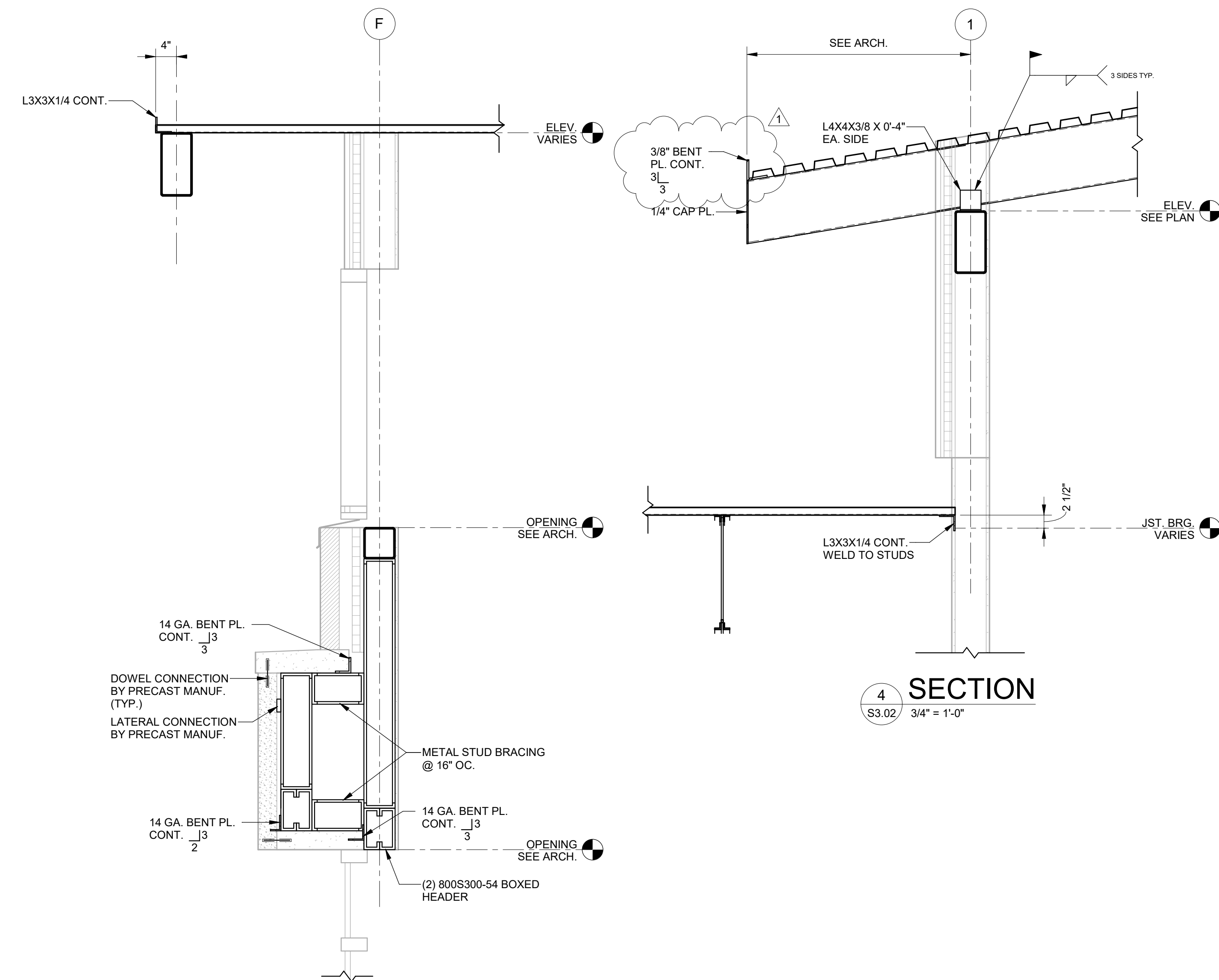
5 SECTION
S3.02 3/4" = 1'-0"



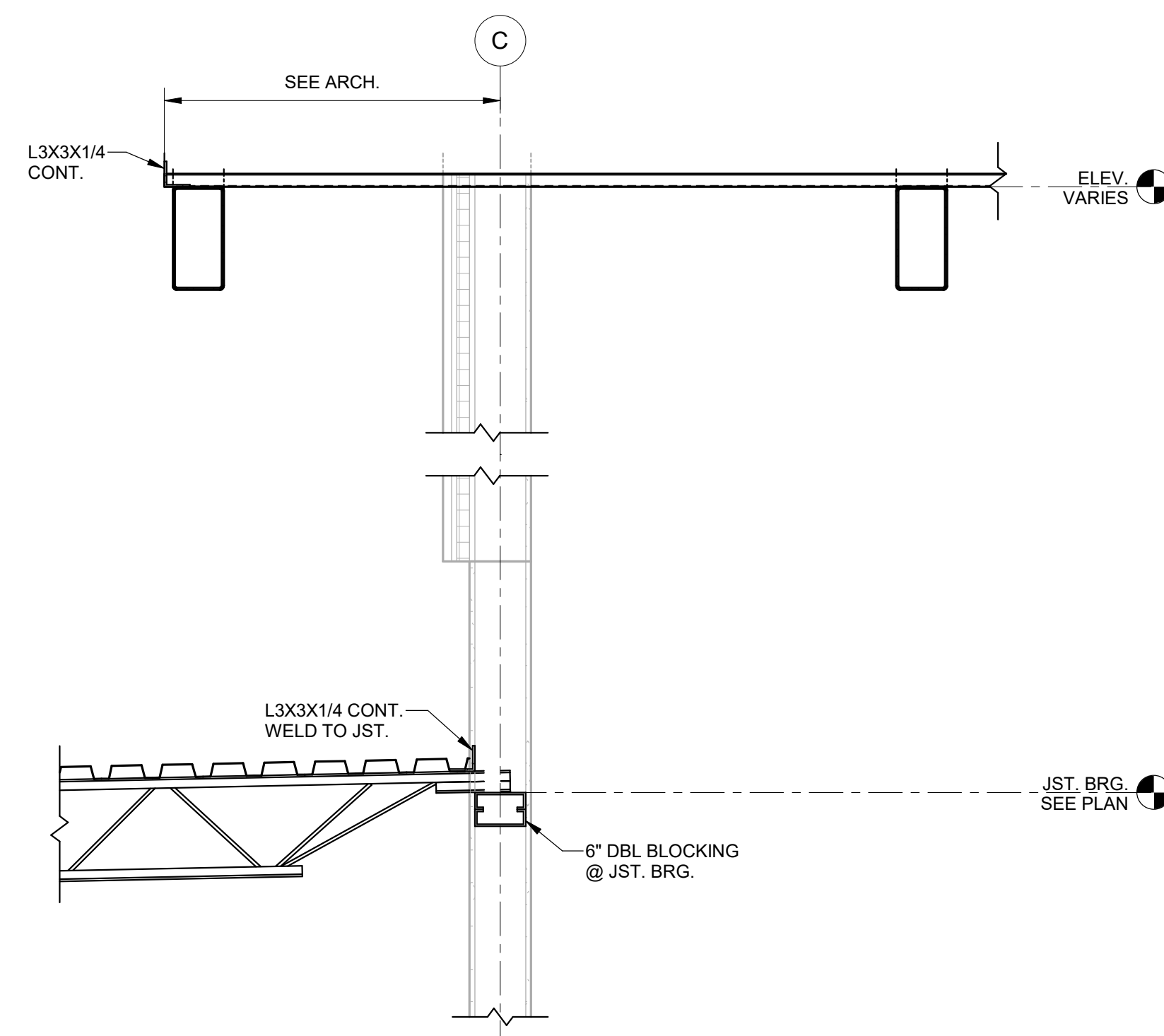
2 SECTION
S3.02 3/4" = 1'-0"



6 SECTION
S3.02 3/4" = 1'-0"



3 SECTION
S3.02 3/4" = 1'-0"



7 SECTION
S3.02 3/4" = 1'-0"

4 SECTION
S3.02 3/4" = 1'-0"

Revisions		
No	Date	Description
1	02/08/24	ADDENDUM 5



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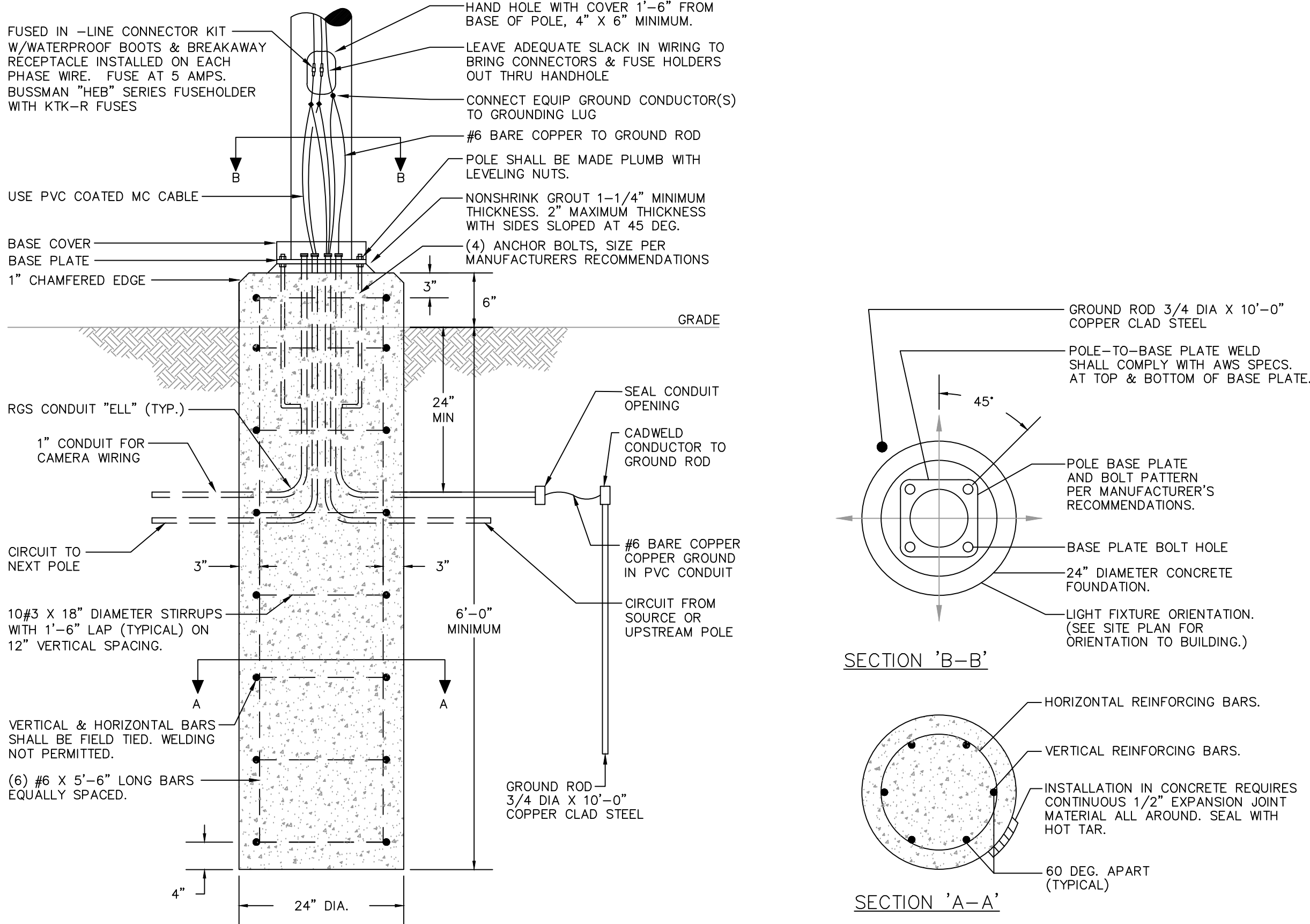
SHEET TITLE: SECTIONS	
PROJECT NUMBER: 2022-08	
DATE: 11/16/2023	
DRAWN BY: ATK	CHECKED BY: KLO

SHEET NUMBER

MBA ENGINEERS, INC.
STRUCTURAL CIVIL GEOTECHNICAL

S3.02

LIGHTING FIXTURE SCHEDULE										
TYPE	DESCRIPTION	MOUNTING		MANUFACTURER	CATALOG NUMBER	L.E.D.			VOLTS	TOTAL WATTS
		TYPE	HGBHT			LUMENS	COLOR	DRIVER QTY / TYPE		
X1	SINGLE FACE EDGE LIT EXT SIGHN WITH MIRRORED BACK AND DIRECTIONAL CHEVRONS AS SHOWN	UNIVERSAL	CEILING / 8'-0" AFF	LITHONIA	EDG-1-RMR-EL	FURNISHED WITH UNIT		N/A	120	10
XD	WALL MOUNTED EXT DISCHARGE LIGHT WITH INTEGRAL HEATER AND BATTERY	WALL	8'-0" AFF	LITHONIA	AFB-OLE-DCB7XD-UVOLT-LTP-SDRT-WT-CW	FURNISHED WITH UNIT		N/A	120	15
PL2	SINGLE HEAD SITE LIGHTING FIXTURE, WITH TYPE II DISTRIBUTION, MOUNTED ON A 27'-0" POLE WITH INTEGRAL DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT AND/OR OWNER	POLE	30'-0" AFG	NLS LIGHTING	NV-2-T2-112-7-40K7-UNV-ASA-**-	21,000	4000K	1	208	200
PL4	SINGLE HEAD SITE LIGHTING FIXTURE, WITH TYPE IV DISTRIBUTION, MOUNTED ON A 27'-0" POLE WITH INTEGRAL DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT AND/OR OWNER	POLE	30'-0" AFG	NLS LIGHTING	NV-2-T4-112-7-40K7-UNV-ASA-**-	20,160	4000K	1	208	200
PL44	TWIN HEAD SITE LIGHTING FIXTURE, WITH TYPE IV DISTRIBUTION, MOUNTED ON A 27'-0" POLE WITH INTEGRAL DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT AND/OR OWNER	POLE	30'-0" AFG	NLS LIGHTING	NV-2-T4-T4-112-7-40K7-UNV-ASA-**-	20,160	4000K	1	208	200 EA
PL5	SINGLE HEAD SITE LIGHTING FIXTURE, WITH TYPE V DISTRIBUTION, MOUNTED ON A 27'-0" POLE WITH INTEGRAL DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT AND/OR OWNER	POLE	30'-0" AFG	NLS LIGHTING	NV-2-T5-112-7-40K7-UNV-ASA-**-	21,168	4000K	1	208	200 EA
GF1	IN-GRADE 60'-0" LINEAR FLOOD LIGHT WITH INTEGRAL DRIVER, U.L. LISTED FOR WET LOCATION, COLOR TO BE SELECTED BY THE ARCHITECT	IN-GRADE	GRADE	INSIGHT LUMENPULSE LUMASCAPE LIGMAN / TARGETTI	MIG-HO-40K-760-(AS REQUIRED)-UNV-NO-**- APPROVED EQUAL	55 LUMENS PER WATT	4000K	1	120	20 WATTS PER FT
FL1	L.E.D. STNACHION MOUNTED FLOOD LIGHT, U.L. LISTED FOR WET LOCATION.	GROUND STANCHION	GRADE	LITHONIA NLS LIGHTING	DSXF1-P1-40K-FL-MVOLT-THK- APPROVED EQUAL	2,965	4000K	1	120	25
GENERAL NOTES: A. MANUFACTURER CATALOG NUMBERS ARE SHOWN FOR GENERAL DESCRIPTIVE PURPOSES AND TO ESTABLISH A STANDARD OF QUALITY. MANUFACTURERS LISTED AS "EQUAL" DOES NOT ENSURE NOR GUARANTEE APPROVAL OF ANY PRODUCT BY THE LISTED MANUFACTURER. FOR APPROVAL, FIXTURES MUST PROVIDE EQUAL PERFORMANCE RELATIVE TO DELIVERY OF LIGHTING, ENERGY USE, AND BE OF SIMILAR DESIGN AND CONSTRUCTION. REQUESTS FOR PRIOR APPROVAL OF FIXTURES NOT LISTED IN THIS SCHEDULE MUST BE RECEIVED BY THE ENGINEER A MINIMUM OF 10 DAYS PRIOR TO BID (SEE SPECIFICATIONS) FOR REVIEW BY THE ARCHITECT/ENGINEER. MANUFACTURERS APPROVAL THROUGH THIS PROCESS WILL BE LISTED IN AN ADDENDUM PRIOR TO BID. FIXTURES NOT LISTED IN AN ADDENDUM ARE NOT APPROVED. B. CONTRACTOR SHALL PROVIDE LUMINAIRES COMPLETE WITH ALL OPTIONS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALL PRODUCTS SHALL BE U.L. LISTED. C. PROVIDE PROPER LAMP FOR REFLECTOR ASSEMBLY SPECIFIED AND AS RECOMMENDED BY LUMINAIRE MANUFACTURER. D. VERIFY CONSTRUCTION AND TYPE CEILINGS TO BE INSTALLED AND PROVIDE LUMINAIRES IN APPROPRIATE CONFIGURATION WITH ALL HARDWARE AND ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. E. PROVIDE LUMINAIRES WITH JOINING PLATES, END CAPS, CANOPIES, MOUNTING HARDWARE, ETC., AS REQUIRED FOR COMPLETE INSTALLATION. F. EXT LIGHTS SHALL BE PROVIDED WITH RED LETTERS REQUIRED BY LOCAL CODE AUTHORITY. FURNISH WITH CHEVRON DIRECTIONAL INDICATORS AS INDICATED AND/OR AS REQUIRED. G. PROVIDE DEVICES FOR SECURING LAY-IN TYPE LUMINAIRES TO CEILING GRID TO COMPLY WITH ARTICLE 410 OF THE NATIONAL ELECTRICAL CODE. H. FURNISH LINEAR LUMINAIRES IN CONTINUOUS ROWS OR PATTERNS AS INDICATED ON DRAWINGS. PROVIDE WITH CORNER, ANGLE, AND END PIECES AS REQUIRED FOR A COMPLETE FINISHED INSTALLATION.										
SCHEDULE NOTES:										



SITE LIGHTING POLE BASE DETAILS
TYPICAL FOR: 'PL2', 'PL4', & 'PL44'
SCALE: NONE

LIGHTING FIXTURE SCHEDULE										
TYPE	DESCRIPTION	MOUNTING		MANUFACTURER	CATALOG NUMBER	L.E.D.			VOLTS	TOTAL WATTS
		TYPE	HEIGHT			LUMENS	COLOR	DRIVER QTY / TYPE		
P1	16" ROUND PENDANT MOUNTED FIXTURE WITH ACRYLIC LENS, DECORATIVE STRUTS, 0-10 VOLT DIMMABLE DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	PENDANT	VERIFY WITH ARCH DRAWINGS	LUMINIS	PR1682-LIL60-80-4000K-**-FS-STM	5,995	4000K	1 / 0-10V DIMMABLE	120	50
P1E	SAME AS FIXTURE P1 EXCEPT WITH AN EMERGENCY BATTERY TO OPERATE FIXTURE FOR 90 MINUTES UPON LOSS OF POWER	PENDANT	VERIFY WITH ARCH DRAWINGS	LUMINIS	PR1682-LIL60-80-4000K-**-FS-STM-EMLC2	5,995	4000K	1 / 0-10V DIMMABLE	120	50
P2 (*)	2" WIDE PENDANT MOUNTED FIXTURE WITH 0-10 VOLT INTEGRAL DRIVER, FIXTURE LENGTH SHOWN (*) IS IN INCHES. COLOR TO BE SELECTED BY THE ARCHITECT.	PENDANT	VERIFY WITH ARCH DRAWINGS	AXIS LIGHTING	B2SQDLED-1000-80-40-SO-**-120-1-CTS	1000 PER FT	4000K	1 / 0-10V DIMMABLE	120	10 WATTS PER FT
P2E (*)	SAME AS FIXTURE P2 EXCEPT WITH AN EMERGENCY BATTERY TO OPERATE FIXTURE FOR 90 MINUTES UPON LOSS OF POWER	PENDANT	VERIFY WITH ARCH DRAWINGS	AXIS LIGHTING	B2SQDLED-1000-80-40-SO-**-120-1-CTS-B2	1000 PER FT	4000K	1 / 0-10V DIMMABLE	120	10 WATTS PER FT
P3	24" ROUND PENDANT MOUNTED FIXTURE WITH HARD EDGE AND 0-10 VOLT DIMMABLE DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	PENDANT	VERIFY WITH ARCH DRAWINGS	PRUDENTIAL	RDSP-24-LED4-SO-**-D1-SC-UNV-RPM-**-DM01	4,525	4000K	1 / 0-10V DIMMABLE	120	45
P4	36" ROUND PENDANT MOUNTED FIXTURE WITH HARD EDGE AND 0-10 VOLT DIMMABLE DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	PENDANT	VERIFY WITH ARCH DRAWINGS	PRUDENTIAL	RDSP-36-LED4-SO-**-D1-SC-UNV-RPM-**-DM01	10,625	4000K	1 / 0-10V DIMMABLE	120	100
P5	PENDANT MOUNTED RECTANGULAR SUSPENDED FIXTURE WITH CONCAVE APPEARANCE AND 0-10 VOLT DIMMABLE DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	PENDANT	VERIFY WITH ARCH DRAWINGS	PEERLESS	VNU4-RECT-CCV-40N-80CRI-40K-11500LM-7800LM-MN1-120-SCT-**-	1500 UP / 7800 DN	4000K	1 / 0-10V DIMMABLE	120	85
P5E	SAME AS FIXTURE P5 EXCEPT WITH AN EMERGENCY BATTERY TO OPERATE FIXTURE FOR 90 MINUTES UPON LOSS OF POWER	PENDANT	VERIFY WITH ARCH DRAWINGS	PEERLESS	VNU4-RECT-CCV-40N-80CRI-40K-11500LM-7800LM-MN1-120-SCT-**-E10WLC	1500 UP / 7800 DN	4000K	1 / 0-10V DIMMABLE	120	85
P6	PENDANT MOUNTED RECTANGULAR SUSPENDED FIXTURE WITH CONVEX APPEARANCE AND 0-10 VOLT DIMMABLE DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	PENDANT	VERIFY WITH ARCH DRAWINGS	PEERLESS	VNU4-RECT-CCV-40N-80CRI-40K-11500LM-7800LM-MN1-120-SCT-**-	1500 UP / 7800 DN	4000K	1 / 0-10V DIMMABLE	120	85
P7	PENDANT MOUNTED SQUARE SUSPENDED FIXTURE WITH CONCAVE APPEARANCE AND 0-10 VOLT DIMMABLE DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	PENDANT	VERIFY WITH ARCH DRAWINGS	PEERLESS	VNU4-SQ-CCV-40N-80CRI-40K-11500LM-4500LM-MN1-120-SCT-**-	1500 UP / 4500 DN	4000K	1 / 0-10V DIMMABLE	120	55
P8	PENDANT MOUNTED SQUARE SUSPENDED FIXTURE WITH CONVEX APPEARANCE AND 0-10 VOLT DIMMABLE DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	PENDANT	VERIFY WITH ARCH DRAWINGS	PEERLESS	VNU4-SQ-CVX-40N-80CRI-40K-11500LM-7800LM-MN1-120-SCT-**-	1500 UP / 4500 DN	4000K	1 / 0-10V DIMMABLE	120	55
P9	PENDANT MOUNTED 48" EURO-STYLE BODY WITH 0-10 VOLT DIMMABLE DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	PENDANT	VERIFY WITH ARCH DRAWINGS	PRUDENTIAL	OLV-40-LED4-SO-FWA-**-D1-SC-UNV-MPCA-XB-DM01	8,850	4000K	1 / 0-10V DIMMABLE	120	135
P10	PENDANT MOUNTED 33" ROUND SPHERE WITH ACOUSTIC FINS AND 0-10 VOLT DIMMABLE DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	PENDANT	VERIFY WITH ARCH DRAWINGS	OCL LIGHTING	KW4-P1FK-33-MW-**-LED2-40K-ND-UNV-DM1	1,765	4000K	1 / 0-10V DIMMABLE	120	20
P11	4" WIDE x 6'-0" PENDANT MOUNTED FIXTURE WITH 0-10 VOLT INTEGRAL DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	PENDANT	VERIFY WITH ARCH DRAWINGS	AXIS LIGHTING	TB4DLED-1000-80-40-SO-S(6)-**-120-DP-1**	1000 PER FT	4000K	1 / 0-10V DIMMABLE	120	10 WATTS PER FT
P11E	SAME AS FIXTURE P11 EXCEPT WITH AN EMERGENCY BATTERY TO OPERATE FIXTURE FOR 90 MINUTES UPON LOSS OF POWER	PENDANT	VERIFY WITH ARCH DRAWINGS	AXIS LIGHTING	TB4DLED-1000-80-40-SO-S(6)-**-120-DP-1**-B1	1000 PER FT	4000K	1 / 0-10V DIMMABLE	120	10 WATTS PER FT
P12	SAME AS FIXTURE P13 EXCEPT WITH AN EMERGENCY BATTERY TO OPERATE FIXTURE FOR 90 MINUTES UPON LOSS OF POWER	PENDANT	VERIFY WITH ARCH DRAWINGS	PEERLESS	OPM4W-LSL-4FT-MSL4-80CRI-40K-1010LMF-810LMF-ZT-120-SCT-1EC	810 PER FT	4000K	1 / 0-10V DIMMABLE	120	10 WATTS PER FT
P13	4" WIDE x 4'-0" PENDANT MOUNTED FIXTURE WITH 0-10 VOLT INTEGRAL DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	PENDANT	VERIFY WITH ARCH DRAWINGS	PEERLESS	OPM4W-LSL-4FT-MSL4-80CRI-40K-1010LMF-810LMF-ZT-120-SCT	810 PER FT	4000K	1 / 0-10V DIMMABLE	120	10 WATTS PER FT
PW	2" WIDE PENDANT MOUNTED WALL WASH FIXTURE WITH 0-10 VOLT INTEGRAL DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	PENDANT	VERIFY WITH ARCH DRAWINGS	AXIS LIGHTING	GPDL-EX-100-80-40-FL-120-120-DP-1-CTS	1000 PER FT	4000K	1 / 0-10V DIMMABLE	120	10 WATTS PER FT
R1	6" ROUND DOWNLIGHT WITH CLEAR SEMI-DIFFUSE REFLECTOR AND 0-10 VOLT DIMMABLE DRIVER	RECESSED	CEILING	LITHONIA	LDN6-40-15-L06-AR-LSS-**-MVOLT-GZ1	1,500	4000K	1 / 0-10V DIMMABLE	120	20
R1E	SAME AS FIXTURE R1 EXCEPT WITH AN EMERGENCY BATTERY TO OPERATE FIXTURE FOR 90 MINUTES UPON LOSS OF POWER	RECESSED	CEILING	LITHONIA	LDN6-40-15-L06-AR-LSS-**-MVOLT-GZ1-E10WCP	1,500	4000K	1 / 0-10V DIMMABLE	120	20
R2	RECESSED 2x4 FLAT PANEL WITH SWITCHABLE LIGHT OUTPUT AND 0-10 VOLT DIMMABLE DRIVER	RECESSED	CEILING	LITHONIA	CPANL-2X4-AL06-SWW7-M2	5,000	4000K	1 / 0-10V DIMMABLE	120	55
R2E	SAME AS FIXTURE R2 EXCEPT WITH AN EMERGENCY BATTERY TO OPERATE FIXTURE FOR 90 MINUTES UPON LOSS OF POWER	RECESSED	CEILING	LITHONIA	CPANL-2X4-AL06-SWW7-M2-ELA PSDMT	5,000	4000K	1 / 0-10V DIMMABLE	120	55
R3	RECESSED 4" WIDE x 8'-0" LONG LINEAR FIXTURE WITH 0-10 VOLT DIMMABLE DRIVER, COLOR TO BE SELECTED BY THE ARCHITECT	RECESSED	CEILING	AXIS LIGHTING	BBRLED-1000-80-40-FL-8-**-120-DP-1-TB*	1000 PER FT	4000K	1 / 0-10V DIMMABLE	120	10 WATTS PER FT
R3E	SAME AS FIXTURE R3 EXCEPT WITH AN EMERGENCY BATTERY TO OPERATE FIXTURE FOR 90 MINUTES UPON LOSS OF POWER	RECESSED	CEILING	AXIS LIGHTING	BBRLED-1000-80-40-FL-8-**-120-DP-1-TB*-B1	1000 PER FT	4000K	1 / 0-10V DIMMABLE	120	10 WATTS PER FT
S1	4'-0" SURFACE MOUNTED STRIP WITH INTEGRAL DRIVER	SURFACE	CEILING	LITHONIA	CLX148-5000LM-SEF-WD-MVOLT-GZ10-40K-80CRI	5,000	4000K	1 / 0-10V DIMMABLE	120	35
S1E	SAME AS FIXTURE S1 EXCEPT WITH AN EMERGENCY BATTERY TO OPERATE FIXTURE FOR 90 MINUTES UPON LOSS OF POWER	SURFACE	CEILING	LITHONIA	CLX148-5000LM-SEF-WD-MVOLT-GZ10-40K-80CRI-E10WLC	5,000	4000K	1 / 0-10V DIMMABLE	120	35
W1	WALL MOUNTED VANITY LIGHT	WALL	VERIFY WITH ARCH DRAWINGS	VISUAL COMFORT	700BCBND-12-MB-LED930	350	3000K	N/A	120	15
W2	EXTERIOR WALL MOUNTED FIXTURE WITH INTEGRAL DRIVER, U.L. LISTED FOR WET LOCATION	WALL	VERIFY WITH ARCH DRAWINGS	VISA	OW1342-L40KH-MVOLT-**-	2,900	4000K	1	120	30

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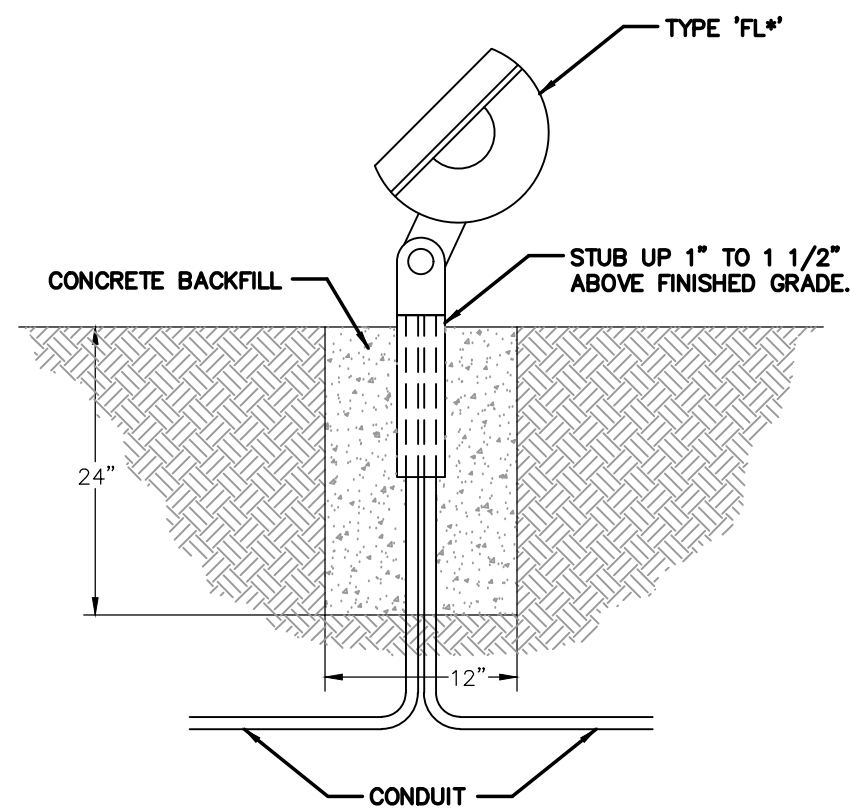
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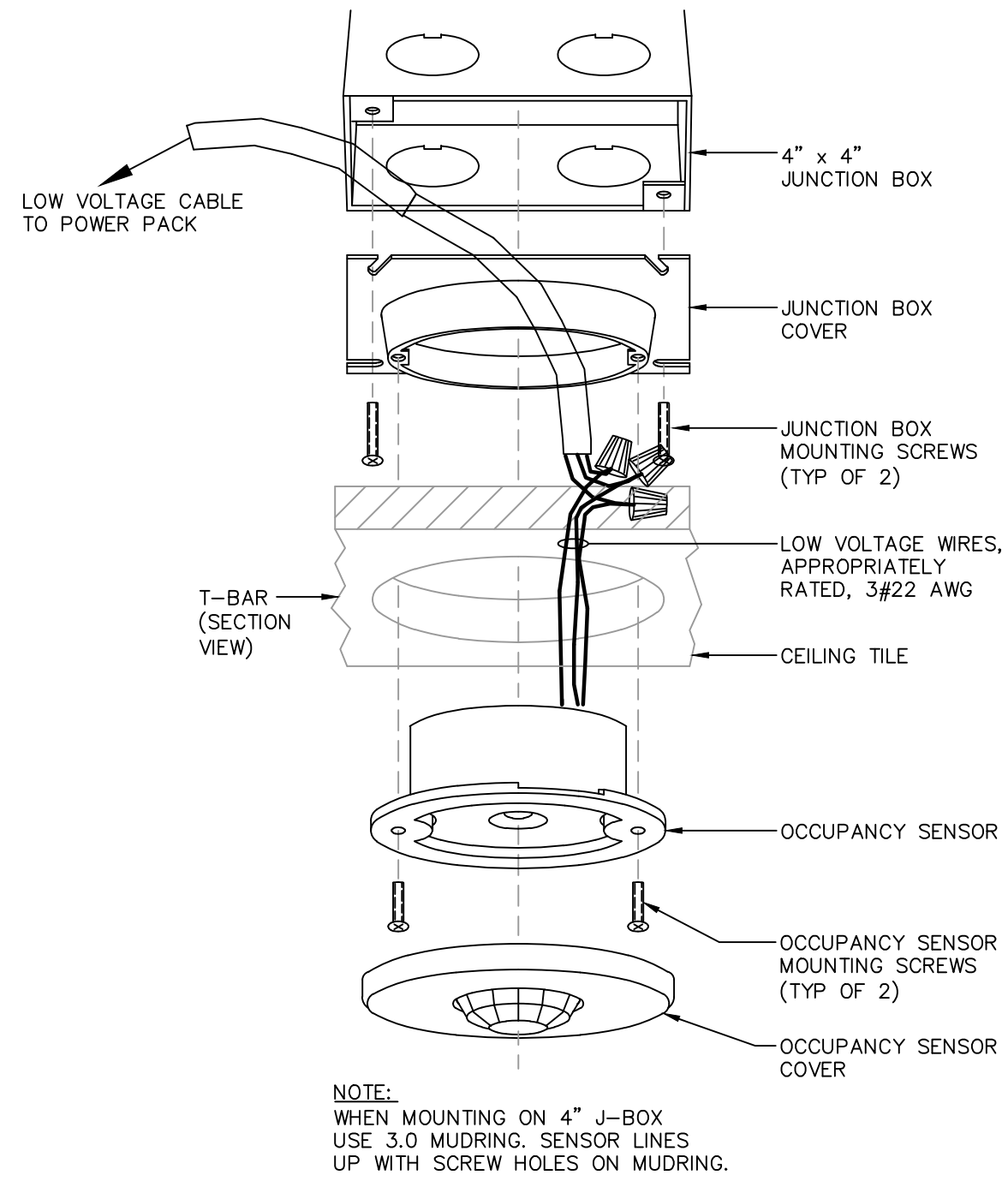
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SHEET TITLE: ELECTRICAL DETAILS	
PROJECT NUMBER: 2022-08	
DATE: NOVEMBER 16, 2023	
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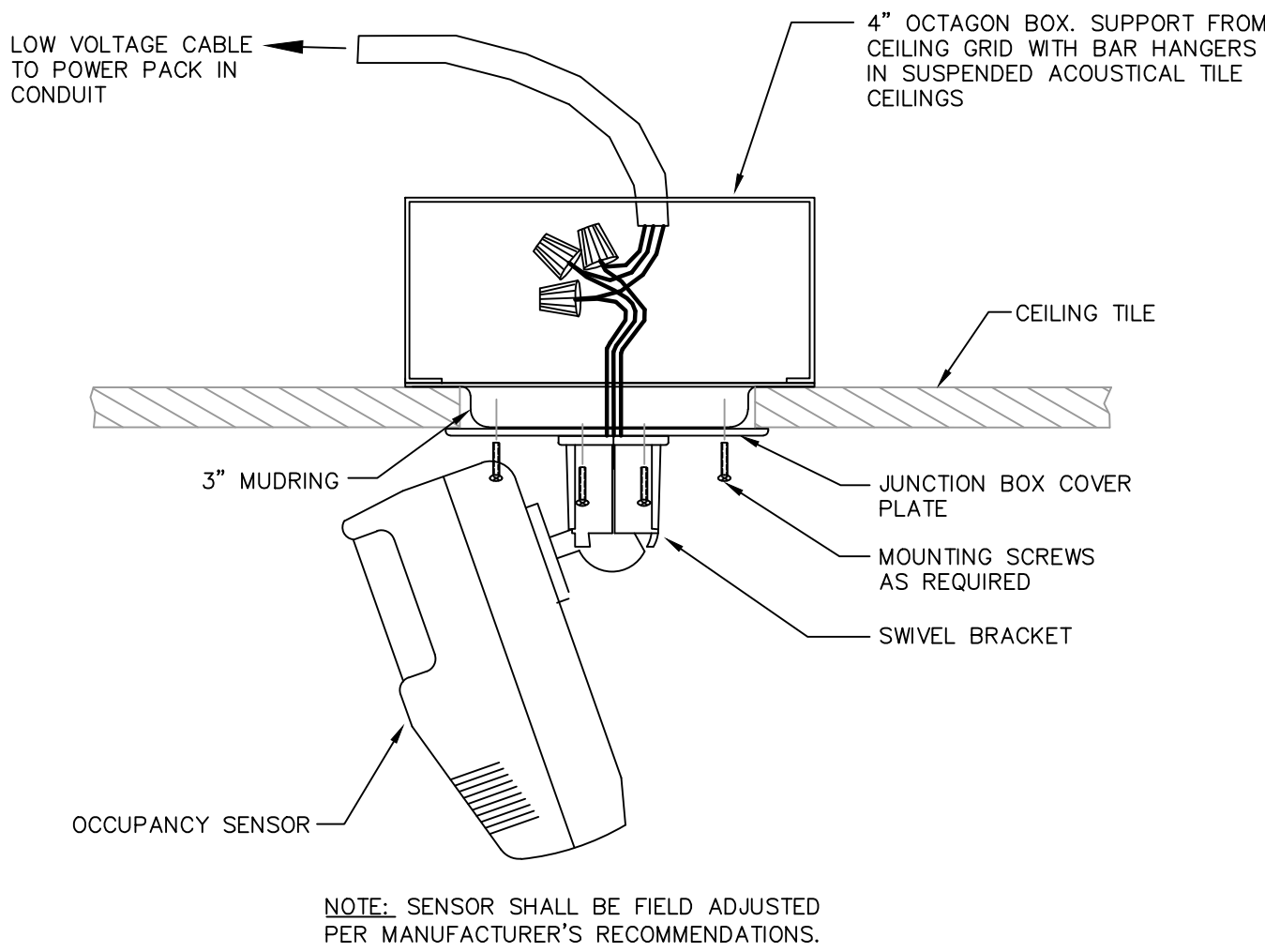
SHEET NUMBER
E002



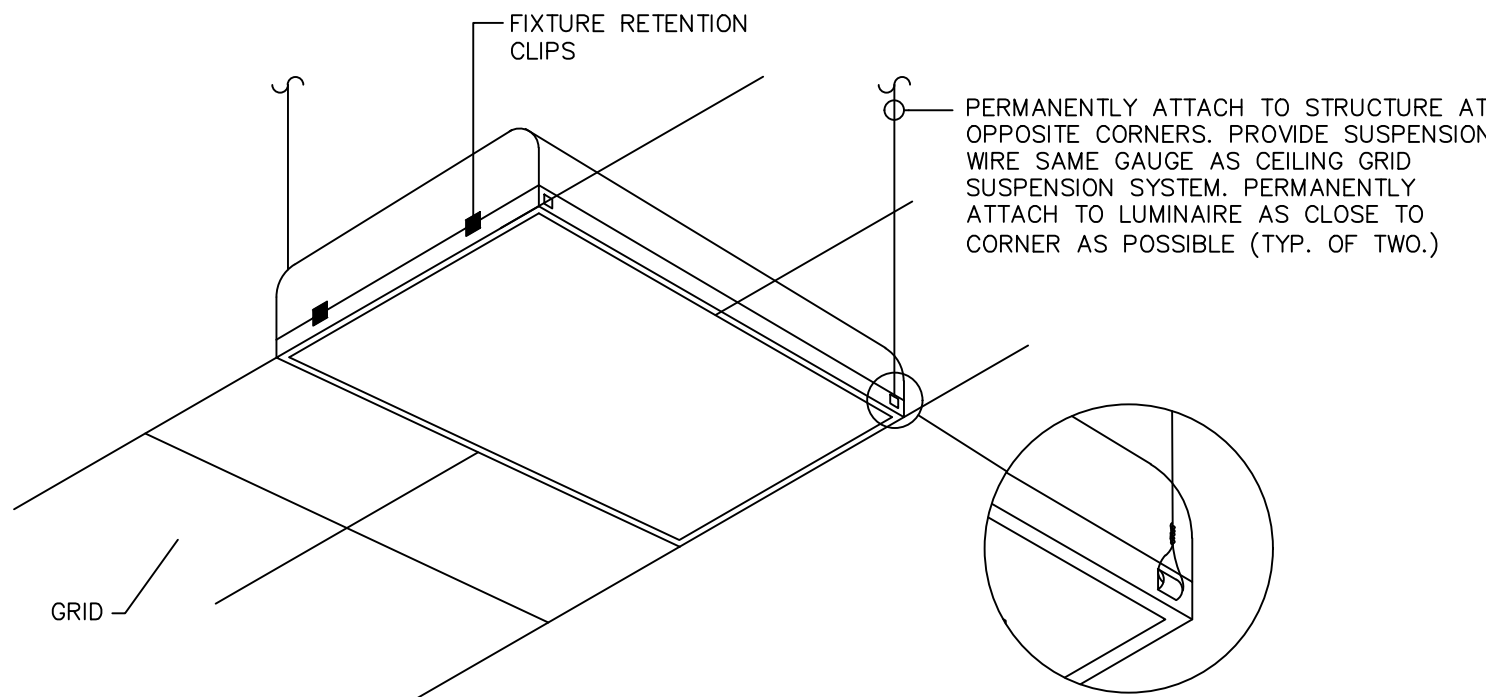
FLOOD LIGHT INSTALLATION DETAIL
TYPICAL FOR FIXTURES 'FL1', 'FL2', & 'FL3'
NOT TO SCALE



OCCUPANCY SENSOR 'OS' & 'OSA' - MOUNTING DETAIL
NOT TO SCALE



OCCUPANCY SENSOR 'OSB' - MOUNTING DETAIL
NOT TO SCALE



TROFFER MOUNTING DETAIL
NOT TO SCALE

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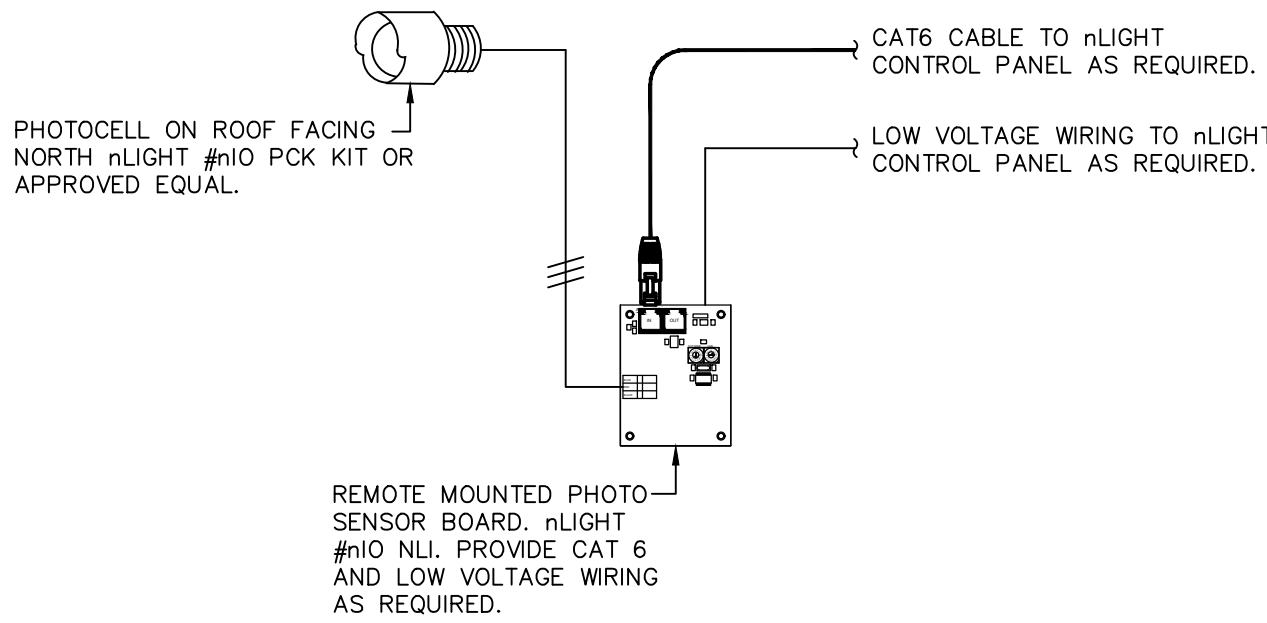
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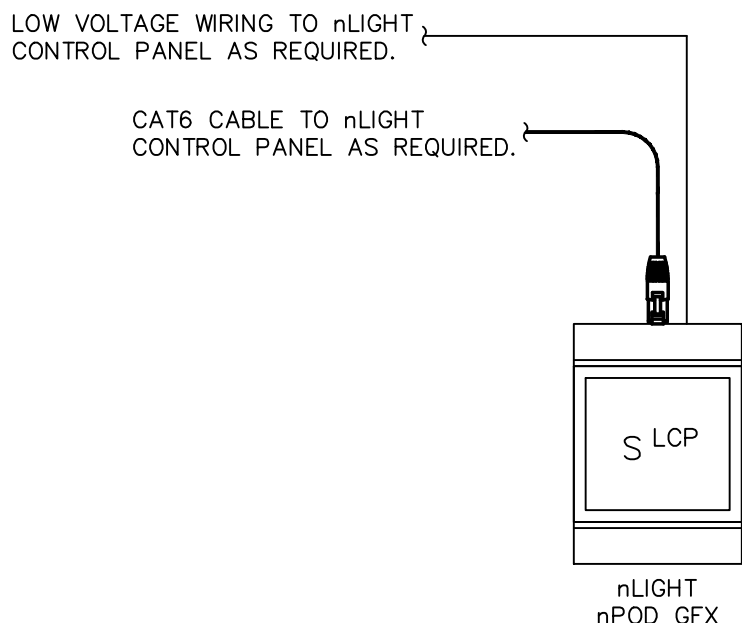
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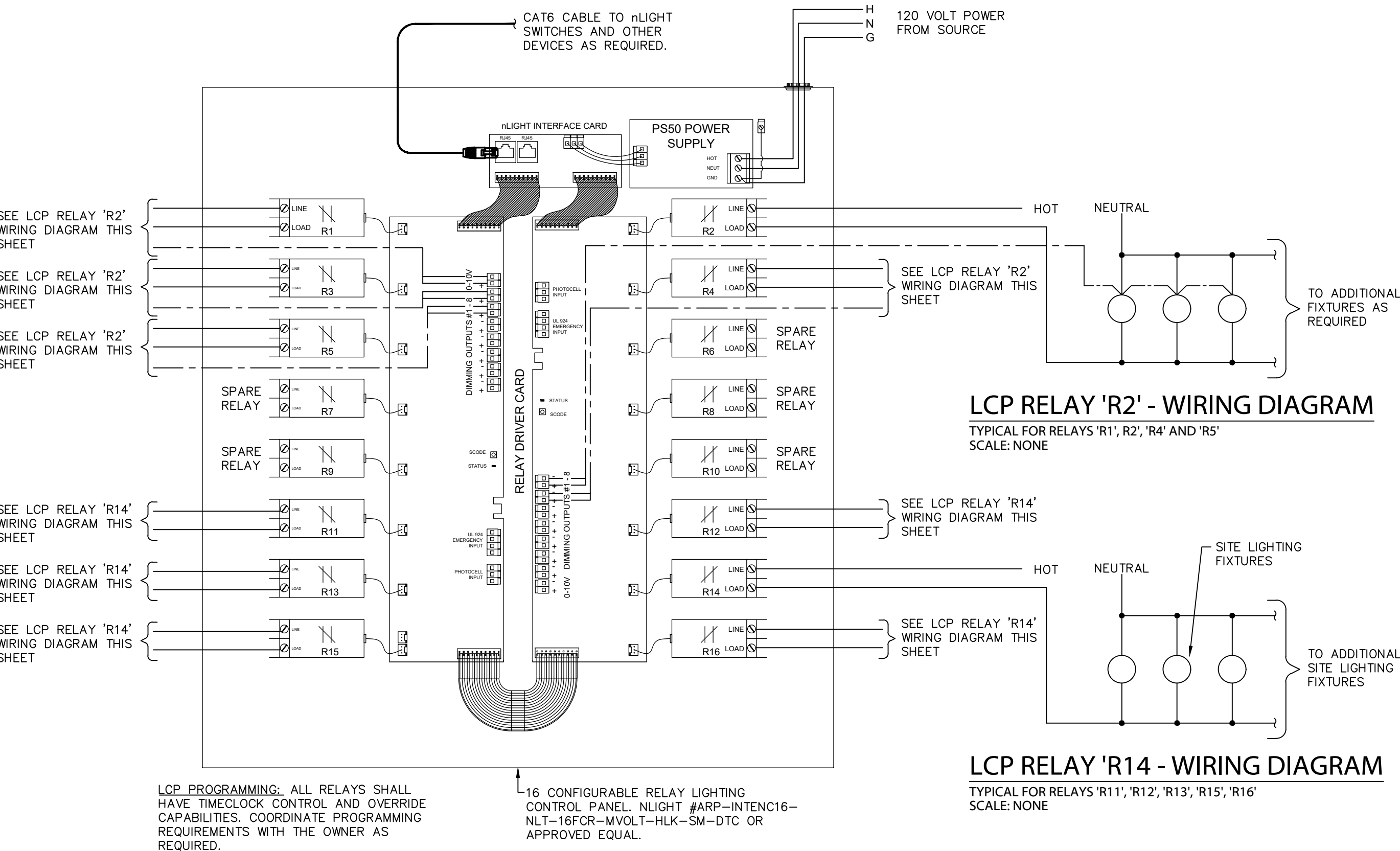
E003



LCP PHOTOCELL - WIRING DIAGRAM
SCALE: NONE

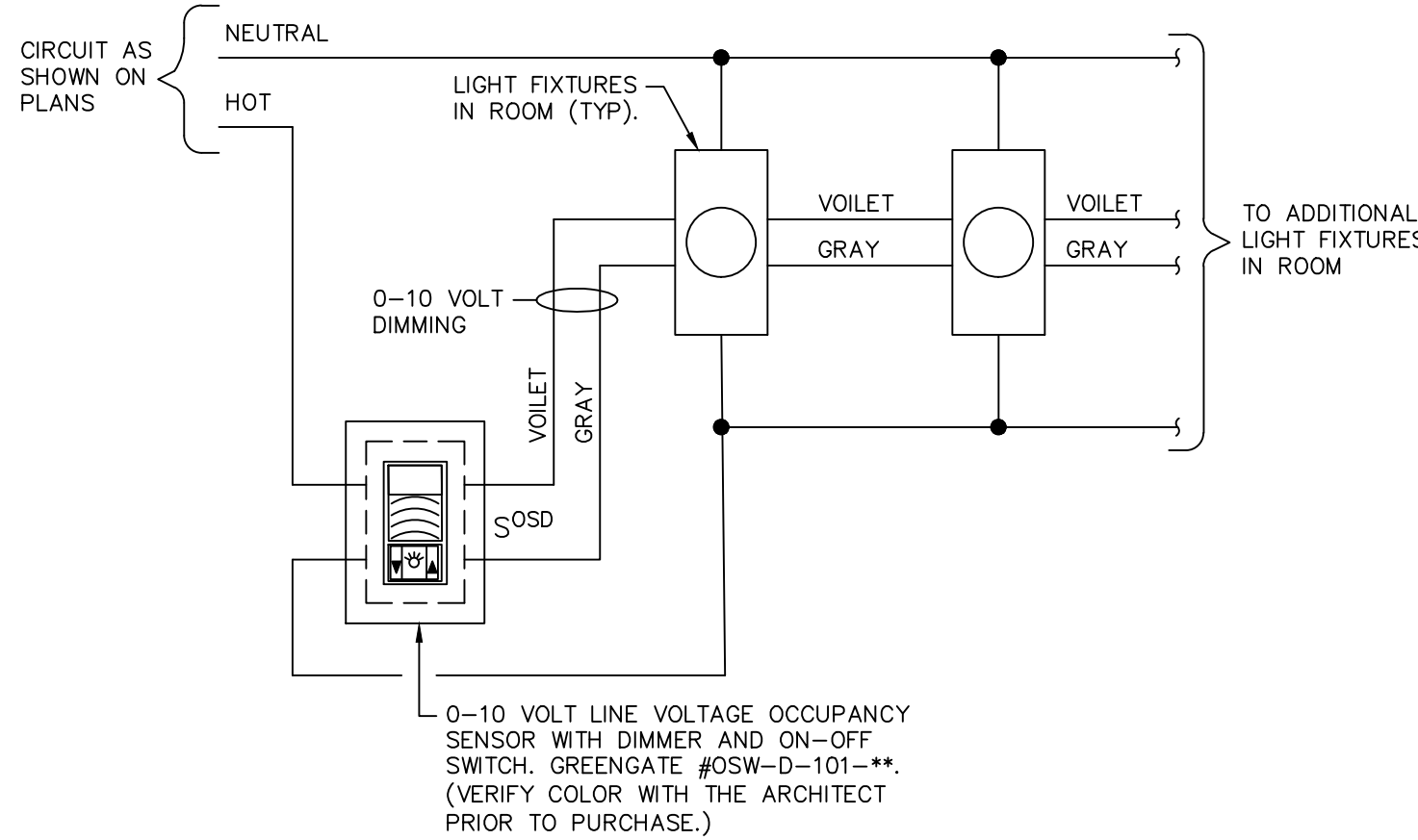


LOW VOLTAGE SWITCH 'LCP' WIRING DIAGRAM
SCALE: NONE

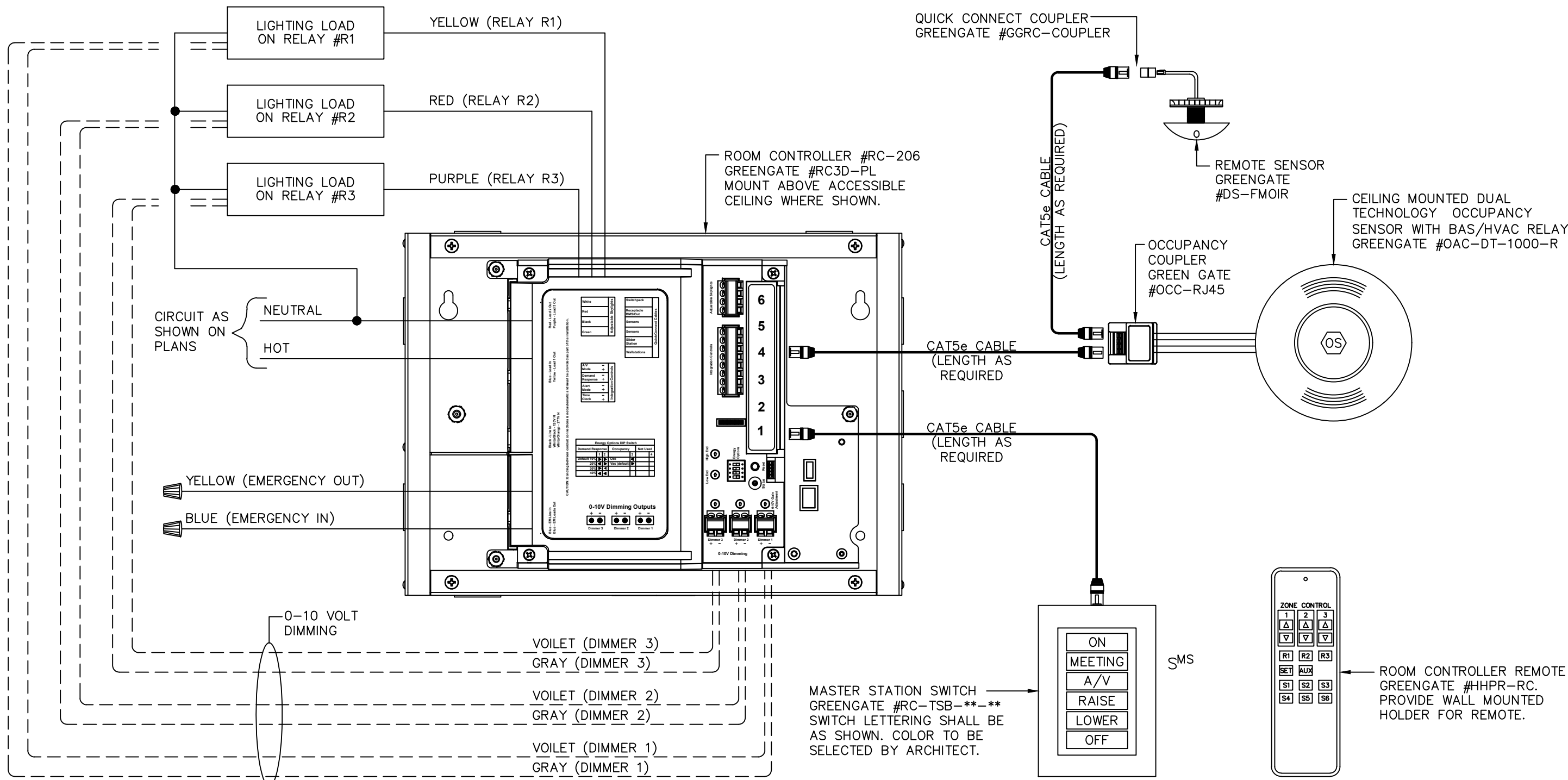


LIGHTING CONTROL PANEL 'LCP' - WIRING DIAGRAM
SCALE: NONE

- ROOM CONTROLLER #RC-*** SEQUENCE OF CONTROL:**
- ROOM CONTROLLER SHALL BE SET TO OCCUPANCY MODE.
 - MASTER SWITCH "ON" SETTING:
 - ALL LIGHTS IN ROOM SHALL TURN ON AT FULL LUMEN OUTPUT.
 - MASTER SWITCH "OFF" SETTING:
 - ALL LIGHT FIXTURES IN ROOM SHALL TURN OFF.
 - ALL OTHER SETTINGS SHALL BE PROGRAMMED AS DIRECTED BY THE OWNER.
 - OCCUPANCY SENSORS
 - PRE-SET TO 15 MINUTES. COORDINATE WITH THE OWNER AND ADJUST SETTINGS AS REQUIRED.
 - SHOULD LIGHTS TURN OFF DUE TO OCCUPANCY SENSORS TIMING OUT, THE ROOM CONTROLLER SHALL DEFAULT TO "ON" SWITCH SETTING WHEN OCCUPANCY SENSORS DETECT MOTION IN THE ROOM.



OFFICE LIGHTING CONTROL DIAGRAM
NOT TO SCALE



MEETING ROOM #102 LIGHTING CONTROL DIAGRAM
NOT TO SCALE

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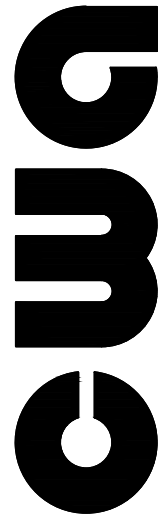


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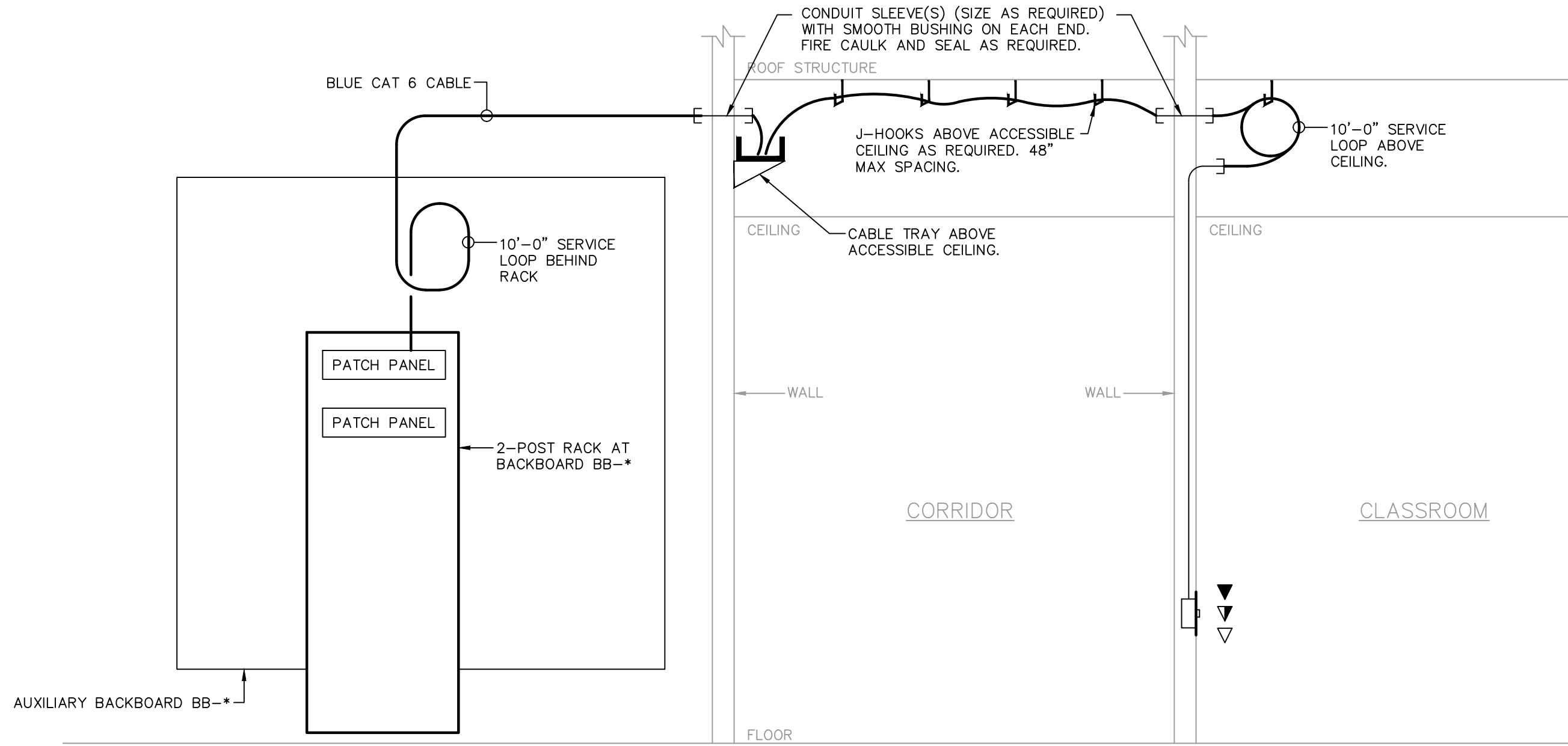


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SHEET NUMBER

E005

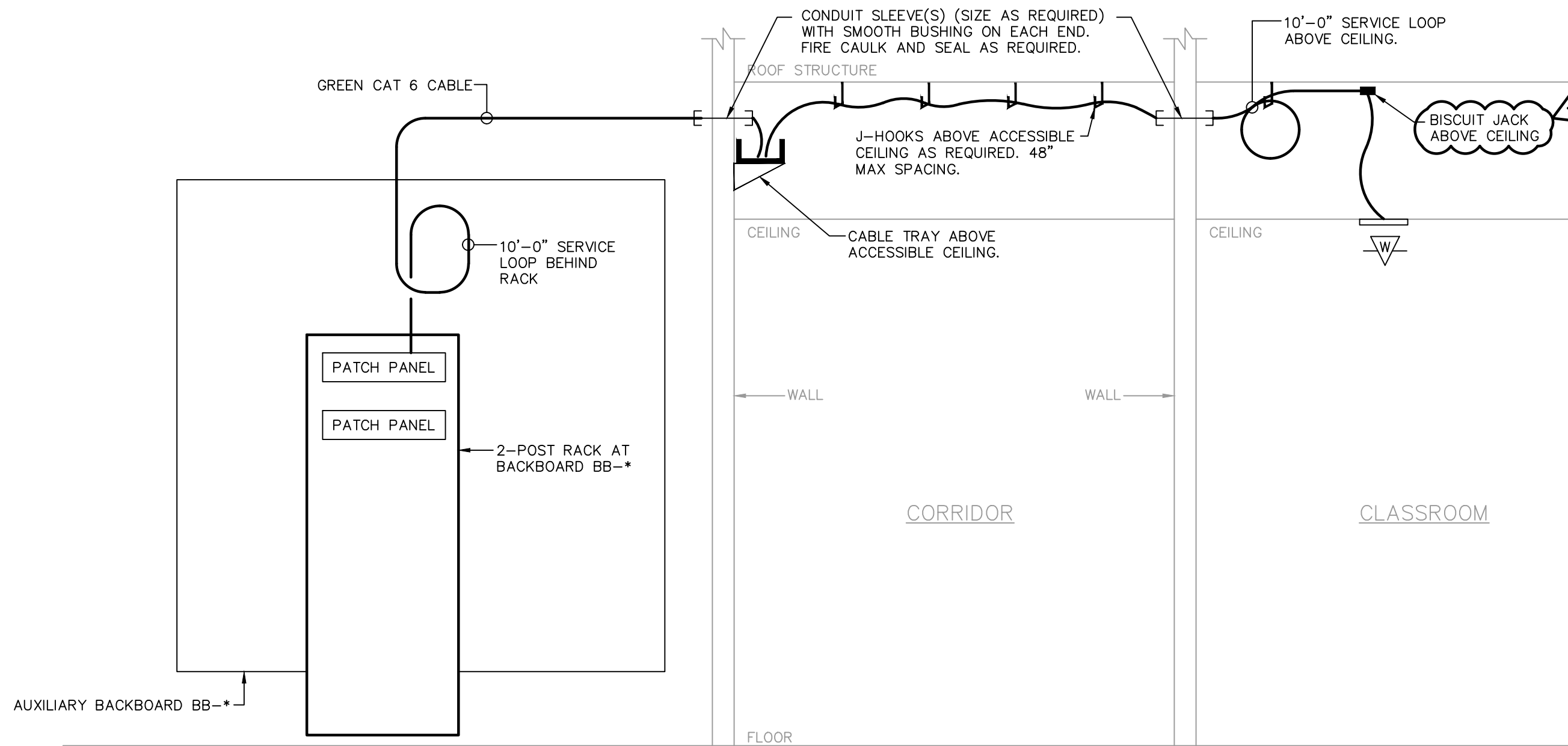


DATA WIRING NOTES:

- DATA OUTLET (# DATA AS INDICATED) – FLUSH MOUNTED IN 4" SQUARE BOX WITH SINGLE GANG RAISED COVER. FURNISH AND INSTALL CAT6 CONNECTOR WITH DATA ICONS FOR EACH DATA JACK AS INDICATED WITH PORT CAPACITY FOR EACH DATA JACK AS INDICATED AND TO PROVIDE A MINIMUM OF ONE FUTURE PORT. FURNISH AND INSTALL CAT6 RATED CABLES (# AS INDICATED FOR DATA) FROM OUTLET TO BACKBOARD BB-* VIA CONDUIT, CABLE TRAY, J-HOOKS, AND SLEEVES. ALL CABLES SHALL BE TERMINATED, BOTH ENDS, AS DIRECTED BY OWNER.
- PROVIDE 10'-0" BLUE PATCH CORD PER DROP AT EACH PATCH PANEL PORT.
- PROVIDE 7'-0" BLACK PATCH CORD PER DROP AT EACH WORK AREA OUTLET

DATA OUTLET DETAIL ▽ ▽ ▽

SCALE: NONE

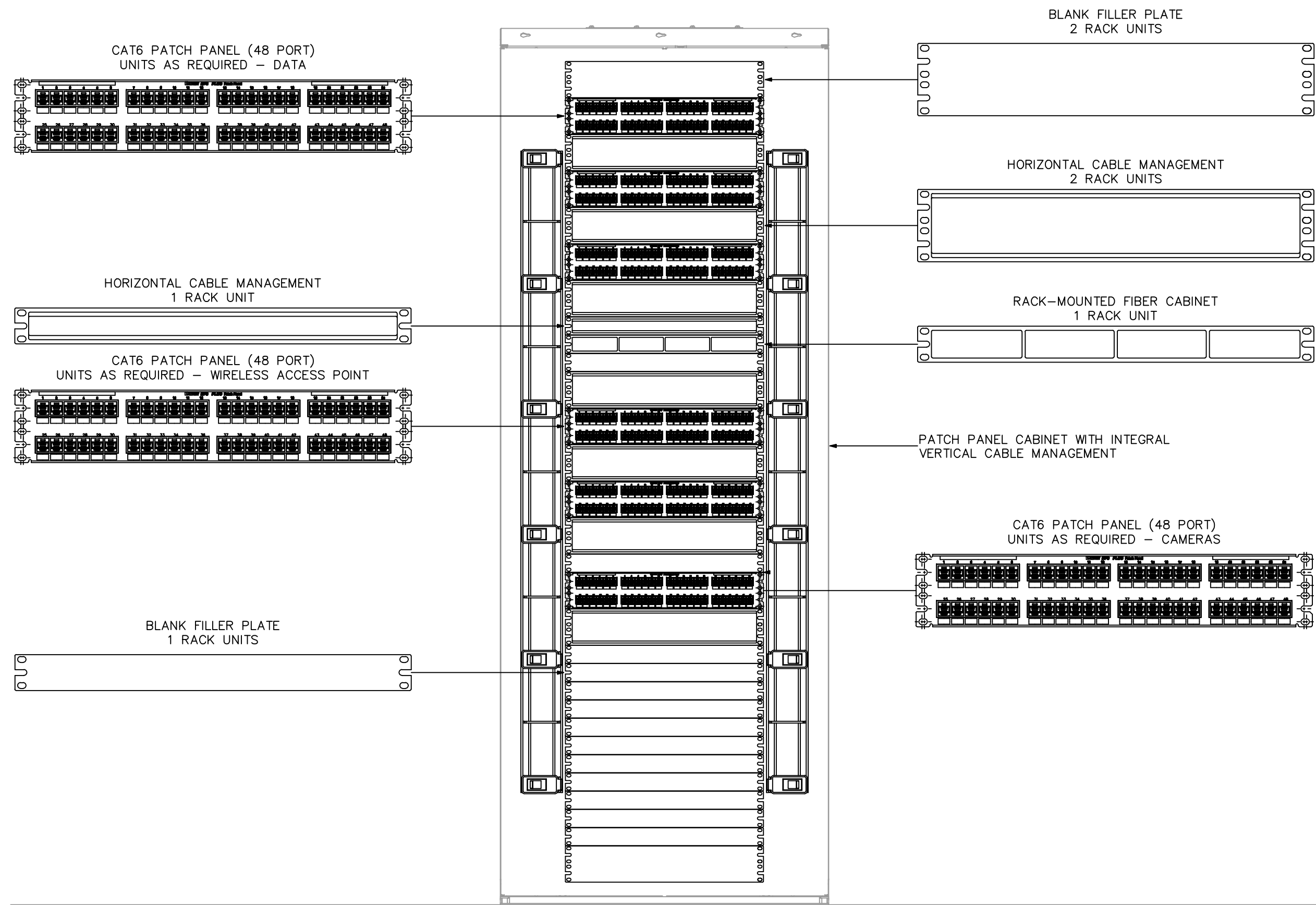


WIRELESS ACCESS POINT WIRING NOTES:

- DATA OUTLET (# DATA AS INDICATED) – FURNISH AND INSTALL CAT6 CONNECTOR WITH DATA ICONS FOR EACH DATA JACK AS INDICATED. FURNISH AND INSTALL CAT6 RATED CABLES (# AS INDICATED FOR DATA) FROM OUTLET TO BACKBOARD BB-* VIA CONDUIT, CABLE TRAY, J-HOOKS, AND SLEEVES. ALL CABLES SHALL BE TERMINATED, BOTH ENDS, AS DIRECTED BY OWNER.
- PROVIDE 10'-0" GREEN PATCH CORD PER DROP AT EACH PATCH PANEL PORT.
- PROVIDE 10'-0" GREEN PATCH CORD PER DROP AT EACH WIRELESS ACCESS POINT.
- PROVIDE A GREEN DOT STICKER ON CEILING GRID UNDER THE BISCUIT JACK TO IDENTIFY THE LOCATION OF THE DEVICE.

WIRELESS ACCESS POINT DETAIL ▽ ▽ ▽

SCALE: NONE



DATA RACK LAYOUT NOTES:

- PROVIDE DATA RACK AS CALLED FOR IN SPECIFICATIONS.
- ALL PATCH PANELS SHALL BE DEDICATED FOR DATA, WIRELESS ACCESS POINT (WAP), OR CAMERAS. DO NOT INTERMIX CABLING BETWEEN PATCH PANELS.
- PROVIDE UNINTERRUPTIBLE POWER SUPPLY AT EACH RACK AS CALLED FOR IN SPECIFICATIONS AT BOTTOM OF EACH CABINET.

TYPICAL DATA RACK LAYOUT

SCALE: NONE

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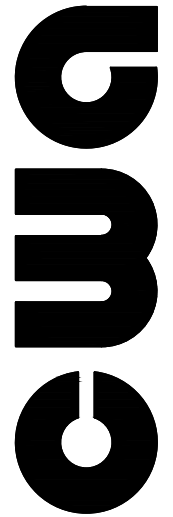


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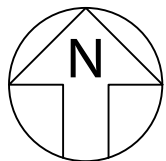
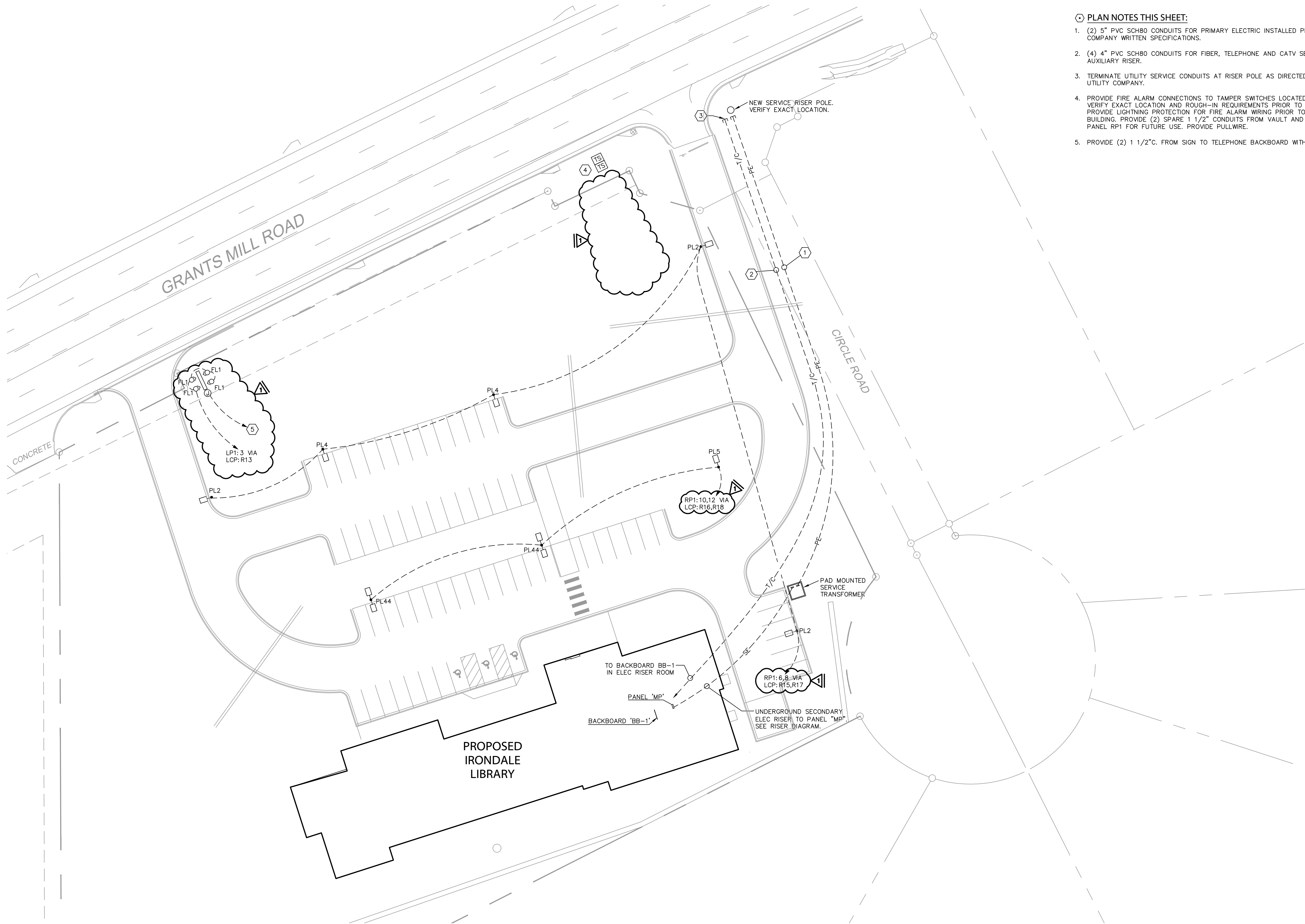


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SHEET TITLE: SITE PLAN - ELECTRICAL	
PROJECT NUMBER: 2022-08	
DATE: NOVEMBER 16, 2023	
DRAWN BY: JLB/CEB	CHECKED BY: JLB

SHEET NUMBER

E101

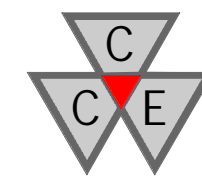


SITE PLAN - ELECTRICAL

SCALE: 1" = 30'-0"

PLAN NOTES THIS SHEET:

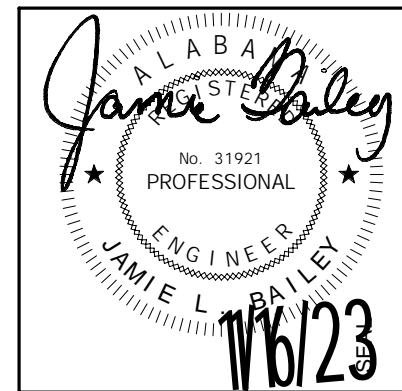
- (2) 5" PVC SCH80 CONDUITS FOR PRIMARY ELECTRIC INSTALLED PER LOCAL POWER COMPANY WRITTEN SPECIFICATIONS.
- (4) 4" PVC SCH80 CONDUITS FOR FIBER, TELEPHONE AND CATV SERVICE. SEE AUXILIARY RISER.
- TERMINATE UTILITY SERVICE CONDUITS AT RISER POLE AS DIRECTED BY RESPECTIVE UTILITY COMPANY.
- PROVIDE FIRE ALARM CONNECTIONS TO TAMPER SWITCHES LOCATED IN FIRE VAULT. VERIFY EXACT LOCATION AND ROUGH-IN REQUIREMENTS PRIOR TO ANY WORK. PROVIDE LIGHTNING PROTECTION FOR FIRE ALARM WIRING PRIOR TO ENTERING THE BUILDING. PROVIDE (2) SPARE 1 1/2" CONDUITS FROM VAULT AND STUB UP AT PANEL RP1 FOR FUTURE USE. PROVIDE PULLWIRE.
- PROVIDE (2) 1 1/2"C. FROM SIGN TO TELEPHONE BACKBOARD WITH PULLWIRE.



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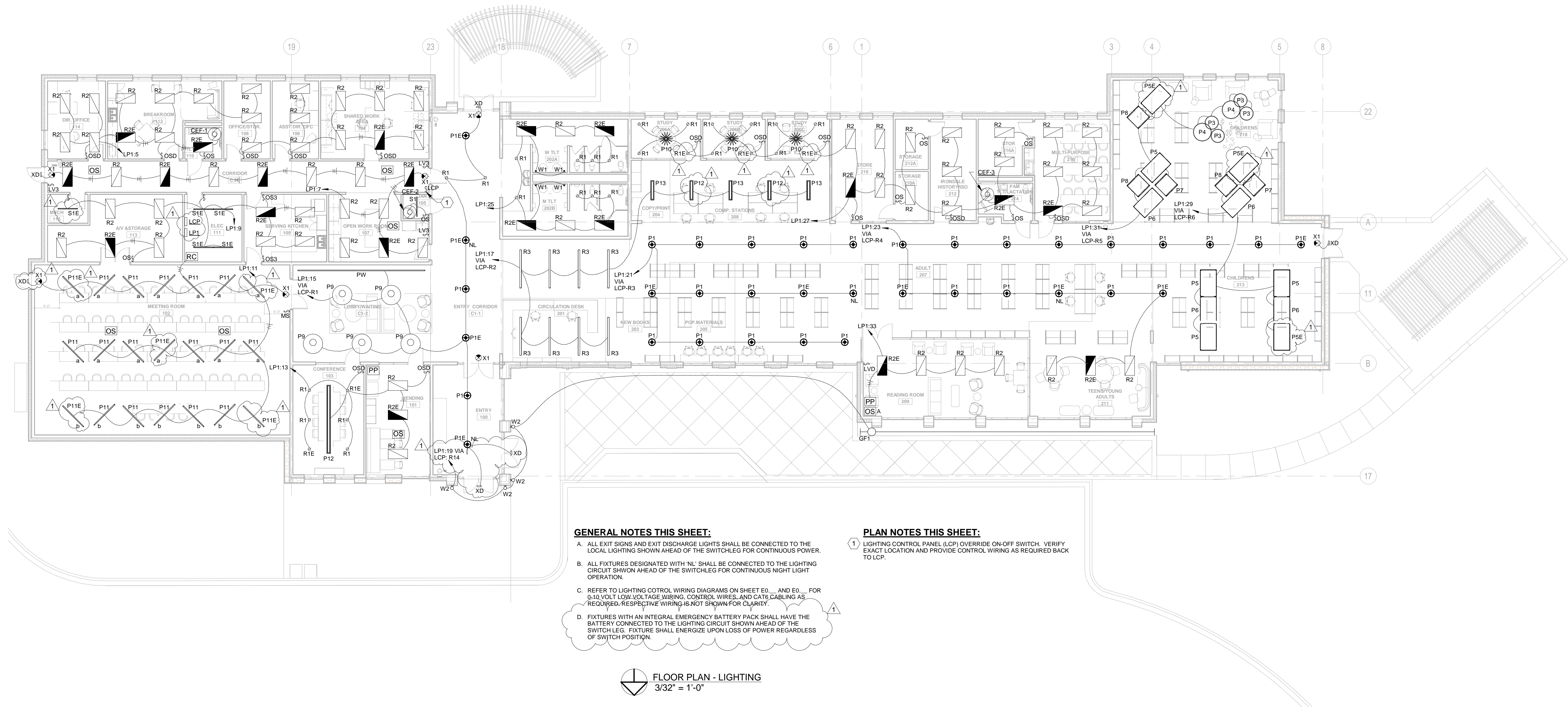
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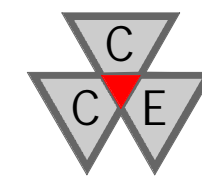
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SHEET TITLE: FLOOR PLAN - LIGHTING	
PROJECT NUMBER: 2022-08	
DATE: 11/07/2023	
DRAWN BY: JLB/CEB	CHECKED BY: JLB

SHEET NUMBER

E201

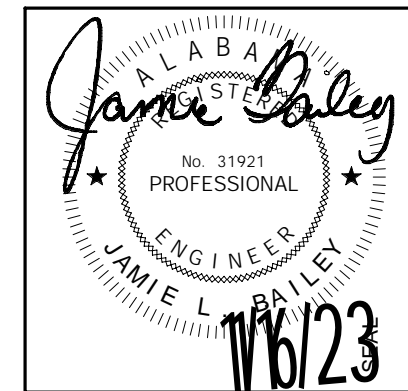




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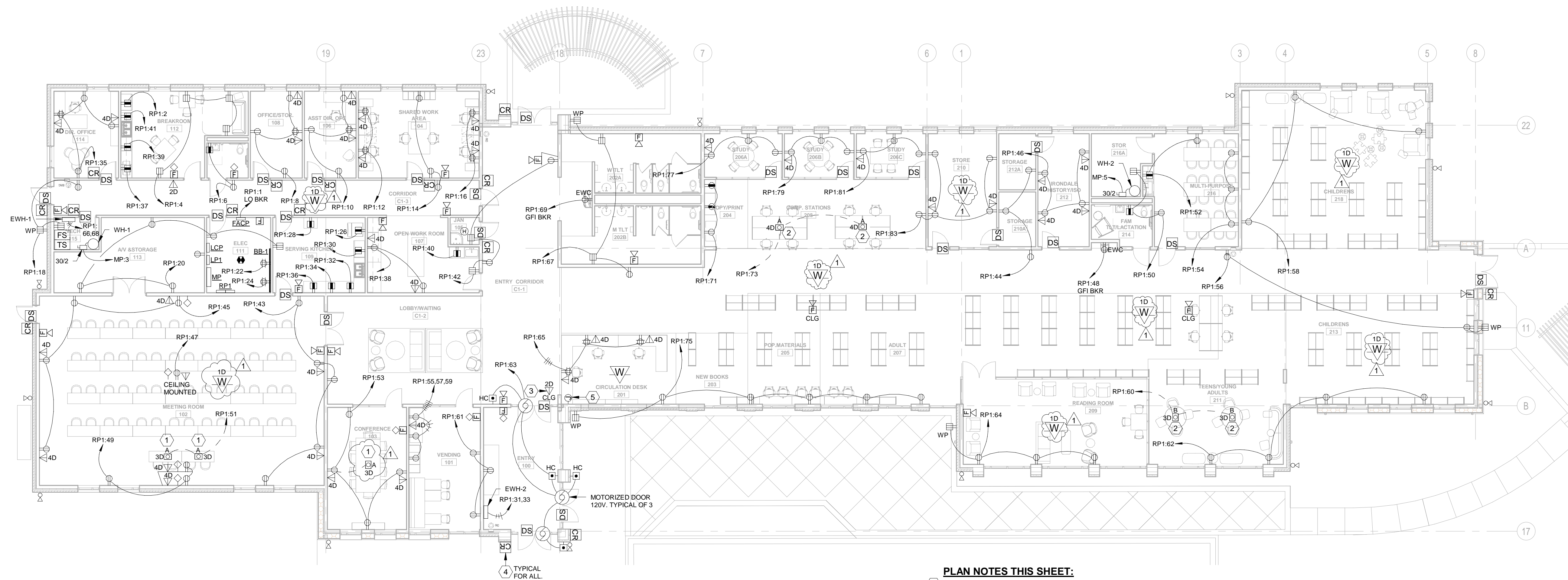
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SHEET TITLE: FLOOR PLAN - POWER & AUXILIARY	
PROJECT NUMBER: 2022-08	
DATE: 11/07/2023	
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SHEET NUMBER
E202



FLOOR PLAN - POWER & AUXILIARY
3/32" = 1'-0"

PLAN NOTES THIS SHEET:

- FLOOR BOX WITH (2) DUPLEX RECEPTACLES AND DATA OUTLETS AS SHOWN. PROVIDE PROVISIONS FOR A/V DEVICES. FURNISH WITH (2) 1" C. STUBBED TO BACKBOARD BB-1 WITH PULLWIRE. WIREMOLD #EFB6 SERIES OR APPROVED EQUAL.
- FLOOR BOX WITH (2) DUPLEX RECEPTACLES AND DATA OUTLETS AS SHOWN. FURNISH WITH (2) 1" C. STUBBED TO BACKBOARD BB-1 WITH PULLWIRE. WIREMOLD #EFB6 SERIES OR APPROVED EQUAL.
- CEILING MOUNTED DATA OUTLET FOR COUNTER DEVICE PROVIDED BY OWNER. VERIFY LOCATION PRIOR TO ROUGH-IN.
- VERIFY EXACT LOCATION OF CARD READER WITH OWNERS SECURITY CONTRACTOR PRIOR TO ROUGH-IN. TYPICAL FOR ALL CARD READERS.
- JUNCTION BOX FOR DOOR SECURITY AT STUDY ROOM, STORE, AND MULTIPURPOSE ROOM. VERIFY EXACT LOCATION WITH OWNERS SECURITY PRIOR TO ROUGH-IN.

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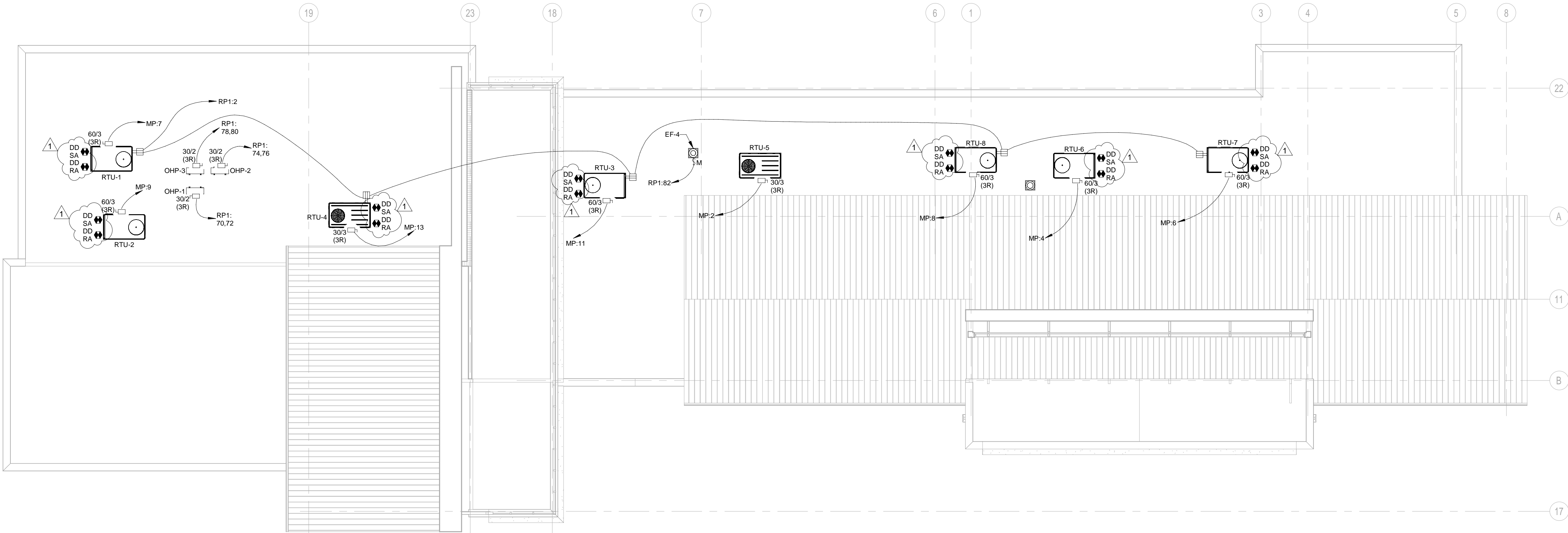
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SHEET TITLE: ROOF PLAN - EQUIPMENT CONNECTIONS	
PROJECT NUMBER: 2022-08	
DATE: 11/07/2023	
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E203



ROOF PLAN - EQUIPMENT CONNECTIONS
3/32" = 1'-0"