

# CITY OF LEE'S SUMMIT FIRE STATION #5

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

# ISSUED FOR CONSTRUCTION

## TERMS AND ABBREVIATIONS

ABBREVIATION	TERM	CONST	CONSTRUCTION	FHC	FIRE HOSE CABINET	FLUOR LT	FLUORESCENT LIGHT(ING)	RD	ROOF DRAIN
A	LABEL	CLASS A DOOR	CONSULTANT	FHP	FULL HEIGHT PARTITION	LT GA	LIGHT GAGE	RDG INS	RIGID INSULATION, SOLID
A/C	AIR CONDITION(ER)	AIR CONDITIONING UNIT	COORD	FIN	FINISH	LTG	LIGHTING	REBAR	REINFORCING STEEL BARS
A/C UNIT	AIR CONDITIONING UNIT	ARCHITECT/ENGINEER	CORR	FIN BS	FINISH BOTH SIDES	LVR	LOUVER	REIN	REINFORCE(D)
A/E	ARCHITECT/ENGINEER	COVER PLATE	COV PL	FIN FLR	FINISH FLOOR	LW PLAS	LIGHTWEIGHT PLASTER	REQ	REQUIRED
AAP	ALARM ANNUNCIATOR PANEL	CONTROL PANEL	CP	FIN GR	FINISH GRADE	FIN WD	FINISH WOOD	RESIL	RESILIENT
AB	ANCHOR BOLT	CARPET	CPT	FLG	FLOORING	FIXT	FIXTURE	REV	REVISION
ABBRV	ABBREVIATION	CIRCUMFERENCE	CRMF	FLR	FLOOR	FLR FIN	FLOOR FINISH	RHR	RIGHT HAND REVERSE
ACC	ACCESSIBLE	COURTYARD	CRT YD	FLR PL	FLOOR PLATE	FLR SK	FLOOR SINK	RLG	RAILING
ACoust INSUL	ACOUSTICAL INSULATION	CASE	CSG	FN	FENCE	MECH	MECHANICAL	RM	ROOM
ACoust PNL	ACOUSTICAL PANEL	CASEMENT	CSI	FOUNT	FOUNTAIN	FR	FIRE RATING	RO	ROUGH OPENING
ACS DR	ACCESS DOOR	CASING	CSMT	FRM	FRAMING	FRM	FIRE RATING	RSD	ROLLING STEEL DOOR
ACS FLR	ACCESS FLOOR	CONSTRUCTION	CSWL	FRM	FRAMING	FRM	FIRE RATING	RT	RIGHT
ACS PNL	ACCESS PANEL	CONSTRUCTION INSTITUTE	CSWK	FRP	FIBERGLASS REINFORCED	FRP	FIBERGLASS REINFORCED	RTF	RUBBER TILE FLOOR
ACT	ACOUSTICAL CEILING TILE	COUNTER SUNK	CT	FRST GL	FROSTED GLASS	FRST GL	FROSTED GLASS	RTG	RATING
ADA	AMERICANS WITH DISABILITIES ACT	CERAMIC TILE	CT STN	FRTW	FIRE RETARDANT TREATED WOOD	FT	FEET	RTU	ROOF TOP UNIT
AFF	AGGREGATE	CERAMIC TILE BASE	CTB			FTG	FOOTING	RV	ROOF VENT
AGGR	AGGREGATE	CERAMIC TILE FLOOR	CTF			FURN	FURNITURE	RVL	REVEAL
AHU	AUTHORITY HAVING JURISDICTION	CEILING	CTG			FW	FIRE WALL		
AHU	AIR HANDLING UNIT	CEILING	CTR			FWK	FABRIC WALLCOVERING FORMWORK		
AIA	AMERICAN INSTITUTE OF ARCHITECTS	CEILING	CTRL						
ALM	ALARM	CUBIC FEET	CU FT						
ALT	ALTERNATE	CUBIC INCH	CU IN						
ALT NO	ALTERNATE NUMBER	CUBIC YARD	CU YD						
ALUM	ALUMINUM	CURTAIN	CURT						
ANN	ANNUNCIATOR								
ANOD	ANODIZE								
APC	ACOUSTICAL PANEL CEILING								
APPD	APPROVED								
APPROX	APPROXIMATE								
ARCH	ARCHITECT								
ASKLR	AUTOMATIC SPRINKLER								
ASPH	ASPHALT								
AV	AUDIO VISUAL								
B	LABEL	CLASS B DOOR	DIA						
B PL	BASE PLATE	DIAMETER	DIAM						
BAS	BUILDING AUTOMATION SYSTEM	DIMENSION	DIM						
BB	BASEBOARD	DISTANCE	DIST						
BC	BOOKCASE	DOCUMENT	DOC						
BD	BOARD	DEMOUNTABLE PARTITION	DPTN						
BDRY	BOUNDARY	DOOR	DR						
BFF	BUILDING FINISH(ED) FLOOR	DOOR CLOSER	DR CL						
BHMA	BUILDERS HARDWARE ASSOCIATION	DOOR FRAME	DR FRM						
BITUM	BITUMINOUS	DOOR OPENING	DR OPNG						
BLKHD	BULKHEAD	DOOR HOLDER	DRH						
BLT IN	BUILT IN	DOOR LOUVER	DR LV						
BLW CLG	BELOW CEILING	DOOR STOP	DRST						
BN	BULLNOSE	DOOR SWITCH	DRSW						
BRCG	BRACING	DISHWASHER	DW						
BRDG	BRIDGING	DRAWING	DWG						
BRDG JUST	BRIDGING JOIST								
BRG	BEARING								
BRG PL	BEARING PLATE								
BRZ	Bronze								
BTWN	BETWEEN								
BUR	BUILT-UP ROOFING								
C	LABEL	CLASS C DOOR	EJFS						
CAB	CABINET	ELEVATION	EL						
CAC	CEILING ATTENUATION	ELECTRIC(IAL)	ELEC						
CLASS		ELEVATOR	ELEV						
CATW	CATWALK	ENTRANCE	ENTR						
CBB	CEMENTITIOUS BACKER BOARD	EDGE OF SLAB	EOS						
CEM	CEMENT FINISH	EXPANDED POLYSTYRENE BOARD (INSULATION)	EPS						
CEM FIN	CEMENT FINISH	EQUIPMENT	EQ						
CEM PLAS	CEMENT PLASTER	EXISTING	EXIST						
CEM PLAS CLG	CEMENT PLASTER CEILING	EXTERIOR	EXT						
CER	CERAMIC	EXTERIOR GRADE	EXT GR						
CF	CONTRACTOR FURNISHED	EXIT LIGHT	EXT LT						
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED								
CF/IO	CONTRACTOR FURNISHED/OWNER INSTALLED								
CFLG	COUNTERFLASHING								
CFMF	COLD-FORMED METAL FRAMING								
CG	CORNER GUARD								
CHFR	CHAMFER								
CI	CAST IRON								
CIP	CAST-IN-PLACE								
CIR	CIRCLE								
CJ	CONNECTION JOINT								
CL	CENTER LINE								
CLDG	CLADDING								
CLG	CEILING								
CLG DIFF	CEILING DIFFUSER								
CLG GR	CEILING GRILLE								
CLG HT	CEILING HEIGHT								
CLG REG	CEILING REGISTER								
CLK JT	CAULKED JOINT								
CLR	COLOR								
CMPST	COMPOSITE								
CMPTR	COMPUTER								
CMU	CONCRETE MASONRY UNIT								
CNR	CORNER								
CNTOR	CONTRACTOR								
CNTR	COUNTER								
CO	COLUMN								
COL	COMMUNICATION								
COMM	CONCRETE								
CONC	CONCRETE FLOORING								
CONC FLR	CONCRETE FLOORING								
CONC OPNG	CONCRETE OPENING								

## GRAPHIC SYMBOLS LEGEND

FLOOR PLAN REFERENCE INDICATORS		DOOR TAG		REVISION TAG	
NAME	ROOM TAG	101A			
ID	WINDOW TAG	ID	PARTITION TAG		KEYNOTE TAG
100'-0"	SPOT ELEVATION TAG		CENTER LINE		EQUIPMENT TAG
NORTH INDICATOR		COLUMN LINE GRID INDICATOR			
PLAN NORTH		GRID IDENTIFICATION			
PROJECT NORTH LINE		VIEW NAME			
TRUE NORTH LINE		VIEW SCALE			
DRAWING BLOCK TITLE		DRAWING BLOCK TITLE			
VIEW NUMBER		VIEW SCALE			
C4		X" = X'-X"			
DETAIL/CALLOUT IDENTIFICATION		EXTERIOR ELEVATION IDENTIFICATION			
DETAIL NUMBER		ELEVATION NAME			
NO		ELEVATION			
SHT		SHEET NUMBER			
BUILDING SECTION IDENTIFICATION		EXTERIOR ELEVATION IDENTIFICATION			
SECTION NUMBER		ELEVATION NUMBER			
NO		SHEET NUMBER			
SHT		SHEET NUMBER			
WALL SECTION IDENTIFICATION		INTERIOR ELEVATION IDENTIFICATION			
SECTION NUMBER		ELEVATION NUMBER			
NO		SHEET NUMBER			
SHT		SHEET NUMBER			

## MATERIAL SYMBOLS LEGEND

CONCRETE (CAST-IN-PLACE)	PLASTER (GYPSUM OR PORTLAND CEMENT)
GROUT	GLASS (ELEVATION)
BRICK (COMMON/FACE)	EARTHWORK (CRUSHED ROCK GRAVEL)
CONCRETE MASONRY UNIT	EARTHWORK (COMPACTED FILL)
STONE (CAST)	SAND
ALUMINUM	CMU LINTEL
ORNAMENTAL METAL	CMU BOND BEAM
STEEL AND OTHER METALS	CMU (SECTION)
INSULATION (BLANKET)	PLYWOOD
INSULATION, RIGID BOARD	WOOD BLOCKING OR SHIM
SHEET METAL	WOOD FRAMING (CONTINUOUS)

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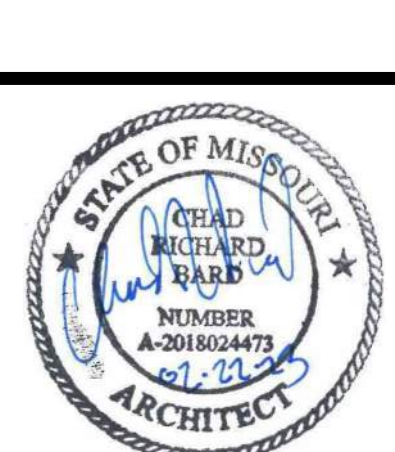
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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
**801 MISSOURI HIGHWAY 150**  
**LEE'S SUMMIT, MISSOURI 64082**

#	Description	Date
4	ASB 04	02/01/2023
6	ASB 06	02/23/2023

#	Description	Date
4	ASB 04	02/01/2023
6	ASB 06	02/23/2023



CHAD R. BARD - ARCHITECT  
MO# A-2018024473

PROJECT NO: 18225R21001

DATE: 02.22.2023

DRAWN BY: CRB

CHK'D BY: PJM

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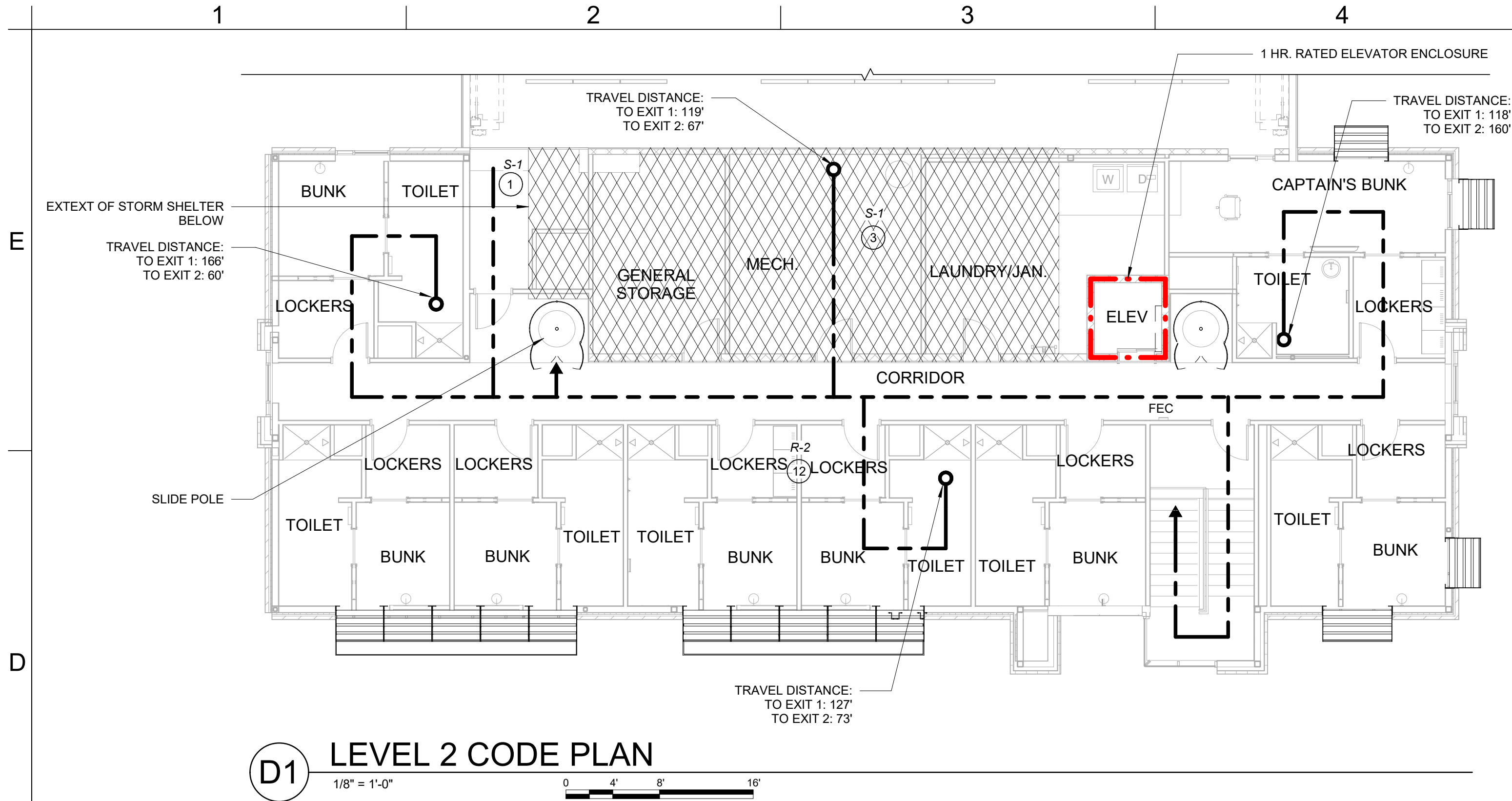
**COVER SHEET**

**G-001**

PLEASE CONSIDER THE ENVIRONMENT  
BEFORE PRINTING THIS



FILE PATH: BIM 360://18225R21001\_LeeSummitFireStation\_#4 and #5/LSMO FIRE STATION 5.rvt



CODE INFORMATION

I. Applicable Codes

- A. 2018 IBC
- C. 2020 ICC 500
- D. ICC/ANSI A117.1-2009
- E. 28 CODE OF FEDERAL REGULATIONS (CFR) PART 35.15 AS DETAILED IN THE DEPARTMENT OF JUSTICE TITLE II ADA REGULATIONS AND THE 2010 ADA STANDARDS OF ACCESSIBLE DESIGN

II. Building Information:

- A. II-B Construction (Per IBC 602)
- B. Fully Sprinklered (Per IBC 901.2)
- C. Full Perimeter Frontage (Per IBC 506.3)
- D. Use Group: Mixed Non-separated S-1, S-2, B, R-2 (Per IBC 508.3)

III. Code Compliance Summary:

A. Building Height & Area:

- 1. Allowable Area / Stories / Height per IBC Table 504.3, 504.4, 506.2, Fully-Sprinklered:
  - S-1: 52,500 sf / 3-story / 75 ft. (S-1 most restrictive height)
  - S-2: 78,000 sf / 4-story / 75 ft.
  - B: 69,000 sf / 4-story / 75 ft.
  - R-2: 48,000 sf / 5-story / 75 ft. (R-2 most restrictive area)

2. Allowable:

Height: 3-story, 75 ft.  
Area per story: 48,000 sf

3. Proposed:

Height: 2-Story Building, 33 ft  
Area:  
7,692 sf - First Floor  
3,754 sf - Second Floor  
11,446 sf - Total

98 sf - Mezzanine above Apparatus Bays  
3,606 sf - Apparatus Bay

per IBC 505.2.1: "The aggregate area of a mezzanine or mezzanines within a room shall not exceed one-third of the floor area of that room or space in which they are located."

"Exception 2: The aggregate area of mezzanine in building and structures of Type I or II construction shall be not greater than one-half of the floor area of the room in buildings and structures equipped throughout with an approved automatic sprinkler system in accordance with Section 903.1.1 and an approved emergency voice/alarm communication system in accordance with Section 907.5.2.2."

B. Fire Resistance Ratings

1. Building Elements per IBC Table 601

	Required	Proposed
Exterior Load Bearing Walls	0 hr.	0 hr.
Interior Load Bearing Walls	0 hr.	0 hr.
Structural Frame	0 hr.	0 hr.
Floor Construction	0 hr.	0 hr.
Roof Construction	0 hr.	0 hr.

2. Corridors with Sprinkler System per IBC-T 1020.1

A, B, E, F, M, S, U  
R per Code modification. See sheet G-003  
Elevator Shaft Enclosure

Notes:

- a. Per IBC 708.4: "Fire partitions shall extend from the top of the foundation or floor/ceiling assembly below to one of the following: 1. The underside of the floor or roof sheathing, slab or deck above. 2. The underside of a floor/ceiling or roof/ceiling assembly having a fire-resistance rating that is not less than the fire-resistance rating of the fire partition."
- b. Also, per IBC 708.4.1: "The supporting construction for a fire partition shall have a fire-resistance rating that is equal to or greater than the required fire-resistance rating of the supported fire partition. Exception: In buildings of Types IIB, IIIB and VB construction, the supporting construction requirement shall not apply to fire partitions separating tenant spaces in covered and open mall buildings, fire partitions separating dwelling units, fire partitions separating sleeping units and fire partitions serving as corridor walls."

3. Exterior Walls per Separation Distance IBC Table 602:

Greater than 30 feet	0 hr.	0 hr.
Less than 5 feet	1 hr.	1 hr.

4. Maximum Area of Exterior Wall Openings Based on Fire Separation Distance and Degree of Opening

Protection per IBC Table 705.8

5 to less than 10 feet, Unprotected, Sprinklered (UP,S)

25%

5. Accessory Storage room separation (>100sf)

0 hr.

C. Occupant Load (IBC Table 1004.5)

Business	19
Residential	12
Storage	34
Total	65

D. Plumbing Fixtures as Required per IBC Table 2902.1:

Notes:

- 1. Per IBC 2902.1.1, occupancy shall be viewed at 50% male and 50% female
- 2. Per IPC 424.2 "In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets in assembly and education occupancies. Urinals shall not be substituted for more than 50 percent of the required water closets in all other occupancies.
- 3. Occupant loads for plumbing fixture calculations have been calculated in accordance with IPC Table 403.1 and IBC 2902

Business	1894gsf / 100	18.90cc
- Toilets (M):	190cc / 25	0.76
- Toilets (F):	190cc / 25	0.76
- Lavatories (M):	190cc / 25	0.76
- Lavatories (F):	190cc / 25	0.76
- Drinking Fountain:	190cc / 100	0.19
Residential	2538gsf / 200	12.00cc
- Toilets (M):	120cc / 10	1.20
- Toilets (F):	120cc / 10	1.20
- Lavatories (M):	120cc / 10	1.20
- Lavatories (F):	120cc / 10	1.20
- Showers:	120cc / 8	1.50
- Drinking Fountain:	120cc / 100	0.12
Storage	1969gsf / 300	6.60cc
3606gsf / 200	18.00cc	
322gsf / 50	6.40cc	
- Toilets (M):	310cc / 100	0.31
- Toilets (F):	310cc / 100	0.31
- Lavatories (M):	310cc / 100	0.31
- Lavatories (F):	310cc / 100	0.31
- Drinking Fountain:	310cc / 1000	0.03
Totals		
- Toilets (Unisex):	4.54 Required /	11 Provided
- Lavatories (Unisex):	4.54 Required /	11 Provided
- Showers:	1.50 Required /	9 Provided
- Drinking Fountain:	0.34 Required /	1 Provided
- Service Sink:	2 Required /	2 Provided

E. Means of Egress Notes:

- 1. See Code Plan for additional exit / egress information
- 2. Per IBC Table 1017.2, Exit Access Travel Distance shall not exceed 250'.
- 3. Maximum Common Path of Egress Travel

1. Per IBC Table 1006.2.1

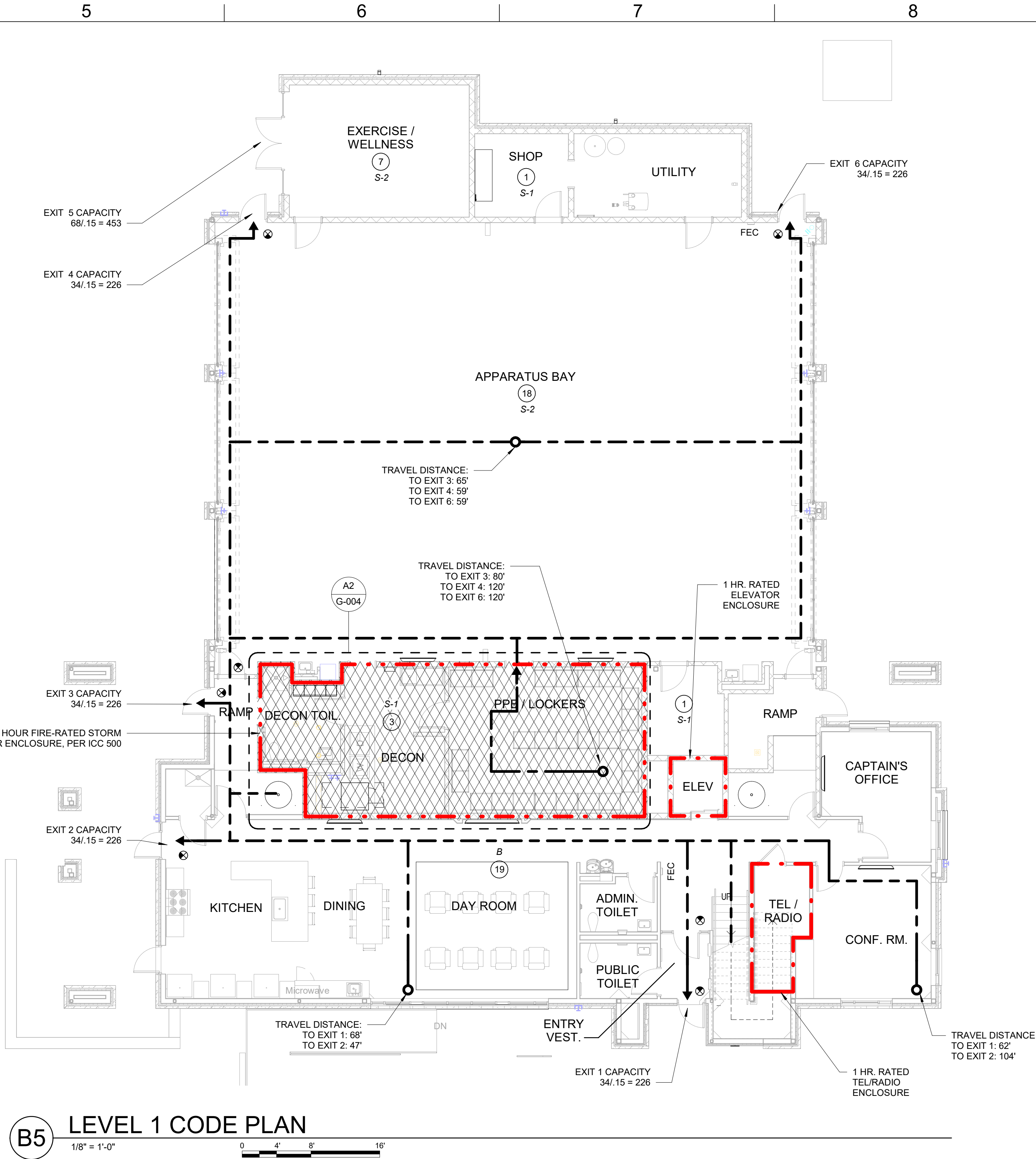
B, S	Required
R-2	100 ft
All others	125 ft
	75 ft

G. Sprinkler System

- 1. NFPA 13
- 2. IBC 903
- 3. Centrally Monitored

H. Fire Alarm System

- 1. Per IBC 907.2.9.1, Exception 1: "Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler waterflow."



CODE PLAN LEGEND

	STORM SHELTER EXTENTS
	NUMBER OF OCCUPANTS PER AREA
	EXIT SIGN
	FIRE EXTINGUISHER CABINET, FULLY RECESSED
	DEFIBRILLATOR CABINET, SEMI-RECESSED
	OCCUPANCY USE
	EGRESS PATH
	1 HR. RATED CONSTRUCTION
	2 HR. RATED CONSTRUCTION

INTERIOR WALL & CEILING FINISH REQUIREMENTS BY OCCUPANCY

PER IBC TABLE 803.13

Group	INTERIOR EXIT STAIRWAYS AND EXIT PASSAGEWAYS	CORRIDOR AND ENCLOSURE FOR EXIT ACCESS	ROOMS AND ENCLOSED SPACES
B	B	C	C
R-2, S	C	C	C

CLASS A: FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450.  
CLASS B: FLAME SPREAD 26-75; SMOKE DEVELOPED 0-450.  
CLASS C: FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450.

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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082  
ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
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PAUL J. MICHELL - ARCHITECT  
MO# A-2009021701

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PROJECT NO: 18225R21001  
DATE: 11.21.2022  
DRAWN BY: JSP  
CHK'D BY: PJM

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CODE SUMMARY

**G-002**



CODE MODIFICATION 1:



CODE MODIFICATION REQUEST (INSPECTIONS)

Revised 10/11/2017

BUILDING/STRUCTURE NAME: Lee's Summit Fire Stations No. 4 & No. 5

PREMISE ADDRESS: FS #4: 5031 Northeast Lakewood Way, Lee's Summit, Missouri 64064  
FS #5: 801 Missouri Highway 150, Lee's Summit, Missouri 64082

PERMIT NUMBER (if applicable):

OWNER'S NAME: City of Lee's Summit

TO: Director of Development Services

In accordance with the Lee's Summit Building Code, I wish to apply for a modification to one or more provisions of the code as I feel that the spirit and intent of the Lee's Summit Building Code are observed the public health, welfare and safety are assured. The following articulates my request for your review and action. (NOTE: ATTACH ANY ADDITIONAL INFORMATION NECESSARY)

Please see attached memo

SUBMITTED BY:  
NAME: Matthew Fadel ( ) OWNER (X) OWNER'S AGENT  
ADDRESS: 11250 Roger Bacon Drive Tel.# 703-956-5600  
CITY, STATE, ZIP: Reston, VA 20190 SIGNATURE: [Signature]

TRACY DEISTER - CODES ADMINISTRATION MANAGER ( ) APPROVAL (X) DENIAL  
SIGNATURE: Tracy Deister DATE: 8/1/2022

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: ( ) APPROVED (X) DENIED  
SIGNATURE: [Signature] DATE:

COMMENTS: Ratios must comply with accessibility requirements of the 2018 International Building Code

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

Development Services  
220 SE Green Street | Lee's Summit, MO 64063 | P: 816.969.1200 | F: 816.969.1221 | cityofls.net

Guidance on the 2010 ADA Standards for Accessible Design: Volume 2 <https://www.ada.gov/reg/2010/2010ADAStandardsGuidance2010ADAa...>

physical construction, whichever comes first," stating that "altering a design after a building permit has been issued can be an undue burden."

After considering these comments, the Department has decided to continue to use the commencement of physical construction as the triggering event for application of the 2010 Standards for entities covered by title II. The Department has also added clarifying language at Sec. 35.151(c)(1) to the regulation to make it clear that the date of ceremonial groundbreaking or the date a structure is razed to make it possible for construction of a facility to take place does not qualify as the commencement of physical construction.

Section 234 of the 2010 Standards provides accessibility guidelines for newly designed and constructed amusement rides. The amusement ride provisions do not provide a "triggering event" for new construction or alteration of an amusement ride. An advisory committee requested that the triggering event of "first use" be used in the Advisory note to section 234.1 of the 2004 ADAAG, be included in the final rule. The Advisory note provides that "all custom designed and constructed ride is new upon its first use, which is the first time amusement park patrons take the ride." The Department declines to treat amusement rides differently than other types of new construction and alterations. Under the final rule, they are subject to Sec. 35.151(c). Thus, newly constructed and altered amusement rides shall comply with the 2010 Standards if the start of physical construction or the alteration is on or after 18 months from the publication date of this rule. The Department also notes that section 234.4.2 of the 2010 Standards only applies where the structural or operational characteristics of an amusement ride are altered. It does not apply in cases where the only change to a ride is the theme.

Noncomplying new construction and alterations. The element-by-element safe harbor referenced in Sec. 35.150(b)(2) has no effect on new or altered elements in existing facilities that were subject to the 1993 Standards or UFAS on the date that they were constructed or altered, but do not comply with the technical and scoping specifications for those elements in the 1993 Standards or UFAS. Sections 35.151(c)(1) of the final rule sets forth the rules for noncompliant new construction or alterations in facilities that were subject to the requirements of this part. Under the final rule, a facility that is noncomplying new construction and alterations constructed or altered after the effective date of the applicable ADA requirements and before March 15, 2012, shall, on or after March 15, 2012, be made accessible in accordance with the 2010 Standards.

§ 35.151(e) Scope of coverage

In the NPRM, the Department proposed a new provision, Sec. 35.151(d), to clarify that the requirements established by Sec. 35.151, including those contained in the 2004 ADAAG, prescribe what is necessary to ensure that buildings and facilities, including fixed or built-in elements in new or altered facilities, are accessible to individuals with disabilities. Once the construction or alteration of a facility has been completed, all other aspects of programs, services, and activities conducted in that facility are subject to the operational requirements established in this final rule. Although the Department may use the requirements of the 2010 Standards as a guide to determining when and how to make equipment and furnishings accessible, those determinations fall within the discretionary authority of the Department.

The Department also wishes to clarify that the advisory notes, appendix notes, and figures that accompany the 1993 and 2010 Standards do not establish separately enforceable requirements unless specifically stated otherwise in the text of the standards. This clarification has been made to address concerns expressed by AHPRM commenters who mistakenly believed that the advisory notes in the 2004 ADAAG established requirements beyond those established in the text of the guidelines (e.g., Advisory 504.4 suggests, but does not require, that covered entities provide visual contrast on stair tread nosing to make them more visible to individuals with low vision). The Department received no significant comments on this section and it is unchanged in the final rule.

Definitions of residential facilities and transient lodging. The 2010 Standards add a definition of "residential dwelling unit" and modify the current definition of "transient lodging." Under section 106.5 of the 2010 Standards, "residential dwelling unit" is defined as "a unit intended to be used as a residence, that is a long-term unit in defined as "a unit intended to be used as a residence, that is a long-term unit in

Guidance on the 2010 ADA Standards for Accessible Design: Volume 2 <https://www.ada.gov/reg/2010/2010ADAStandardsGuidance2010ADAa...>

nature" and does not include transient lodging, inpatient medical care, licensed long-term care, and detention or correctional facilities. Additionally, section 106.5 of the 2010 Standards changes the definition of "transient lodging" to "a building or facility containing one or more guest room(s) for sleeping that provides accommodations that are primarily short-term in nature." "Transient lodging" does not include residential dwelling units intended to be used as a residence. The references to "dwelling units" and "dormitories" that are in the definition of the 1993 Standards are omitted from the 2010 Standards.

The comments about the application of transient lodging or residential standards to social service center establishments, and housing at a place of education are addressed separately below. The Department received one additional comment on this issue from an organization representing emergency response personnel seeking an exemption from the transient lodging accessibility requirements for crew quarters and common use areas serving those crew quarters (e.g., locker rooms, exercise rooms, day room) that are used exclusively by on-duty emergency response personnel and that are not used for any public purpose. The commenter argued that since emergency response personnel must meet certain physical qualifications that have the effect of exempting persons with mobility disabilities, there is no need to build crew quarters and common use areas serving those crew quarters to meet the 2004 ADAAG. In addition, the commenter argued that applying the transient lodging standards would impose significant costs and create living space that is less usable for most emergency response personnel.

The ADA does not exempt spaces because of a belief or policy that excludes persons with disabilities from certain work. However, the Department believes that crew quarters that are used exclusively as a residence by emergency response personnel and the kitchens and bathrooms exclusively serving those quarters are more like residential dwelling units and are therefore covered by the residential dwelling standards in the 2010 Standards, not the transient lodging standards. The residential dwelling standards address most of the concerns of the commenter. For example, the commenter was concerned that sinks in kitchens and lavatories in bathrooms that are accessible under the transient lodging standards would be too low to be comfortably used by emergency response personnel. The residential dwelling standards allow such features to be adaptable so that they would not have to be lowered until accessibility was needed. Similarly, grab bars and shower seats would not have to be installed at the time of construction provided that reinforcement has been installed in walls and located so as to permit their installation at a later date.

§ 35.151(e) Social service center establishments

In the NPRM, the Department proposed a new Sec. 35.151(e) requiring group homes, halfway houses, shelters, or similar social service center establishments that provide temporary sleeping accommodations or residential dwelling units to comply with the provisions of the 2004 ADAAG that apply to residential facilities, including, but not limited to, the provisions in sections 233 and 809.

The NPRM explained that this proposal was based on two important changes in the 2004 ADAAG. First, for the first time, residential dwelling units are explicitly covered in the 2004 ADAAG in section 233. Second, the 2004 ADAAG eliminates the language contained in the 1993 Standards addressing access and technical requirements for homeless shelters, group homes, and similar social service center establishments. Currently, such establishments are covered in section 9.5 of the transient lodging section of the 1993 Standards. The deletion of section 9.5 creates an ambiguity of coverage that must be addressed.

The NPRM explained the Department's belief that transferring coverage of social service center establishments from the transient lodging standards to the residential facilities standards would alleviate conflicting requirements for social service center providers. The Department believes that a substantial percentage of social service center establishments are recipients of Federal financial assistance from the Department of Housing and Urban Development (HUD). The Department of Health and Human Services (HHS) also provides financial assistance for the operation of shelters through the Administration for Children and Families programs. As such, these establishments are covered both by the ADA and section 504 of the Rehabilitation Act. UFAS is currently the design standard for new construction and alterations for entities subject to section 504. The two design standards for accessibility—the 1993 Standards and UFAS—have confronted many social service

CODE MODIFICATION 2:



CODE MODIFICATION REQUEST (INSPECTIONS)

Revised 10/11/2017

BUILDING/STRUCTURE NAME: Lee's Summit Fire Stations No. 4 & No. 5

PREMISE ADDRESS: FS #4: 5031 Northeast Lakewood Way, Lee's Summit, Missouri 64064  
FS #5: 801 Missouri Highway 150, Lee's Summit, Missouri 64082

PERMIT NUMBER (if applicable):

OWNER'S NAME: City of Lee's Summit

TO: Director of Development Services

In accordance with the Lee's Summit Building Code, I wish to apply for a modification to one or more provisions of the code as I feel that the spirit and intent of the Lee's Summit Building Code are observed the public health, welfare and safety are assured. The following articulates my request for your review and action. (NOTE: ATTACH ANY ADDITIONAL INFORMATION NECESSARY)

Please see attached memo

SUBMITTED BY:  
NAME: Matthew Fadel ( ) OWNER (X) OWNER'S AGENT  
ADDRESS: 11250 Roger Bacon Drive Tel.# 703-956-5600  
CITY, STATE, ZIP: Reston, VA 20190 SIGNATURE: [Signature]

TRACY DEISTER - CODES ADMINISTRATION MANAGER (X) APPROVAL ( ) DENIAL  
SIGNATURE: Tracy Deister DATE: 8/1/2022

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: (X) APPROVED ( ) DENIED  
SIGNATURE: [Signature] DATE:

COMMENTS:

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

Development Services  
220 SE Green Street | Lee's Summit, MO 64063 | P: 816.969.1200 | F: 816.969.1221 | cityofls.net

CODE MODIFICATION 3:



CODE MODIFICATION REQUEST (INSPECTIONS)

Revised 10/11/2017

BUILDING/STRUCTURE NAME: Lee's Summit Fire Stations No. 4 & No. 5

PREMISE ADDRESS: FS #4: 5031 Northeast Lakewood Way, Lee's Summit, Missouri 64064  
FS #5: 801 Missouri Highway 150, Lee's Summit, Missouri 64082

PERMIT NUMBER (if applicable):

OWNER'S NAME: City of Lee's Summit

TO: Director of Development Services

In accordance with the Lee's Summit Building Code, I wish to apply for a modification to one or more provisions of the code as I feel that the spirit and intent of the Lee's Summit Building Code are observed the public health, welfare and safety are assured. The following articulates my request for your review and action. (NOTE: ATTACH ANY ADDITIONAL INFORMATION NECESSARY)

Please see attached memo

SUBMITTED BY:  
NAME: Matthew Fadel ( ) OWNER (X) OWNER'S AGENT  
ADDRESS: 11250 Roger Bacon Drive Tel.# 703-956-5600  
CITY, STATE, ZIP: Reston, VA 20190 SIGNATURE: [Signature]

TRACY DEISTER - CODES ADMINISTRATION MANAGER (X) APPROVAL ( ) DENIAL  
SIGNATURE: Tracy Deister DATE:

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: (X) APPROVED ( ) DENIED  
SIGNATURE: [Signature] DATE:

COMMENTS:

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

Development Services  
220 SE Green Street | Lee's Summit, MO 64063 | P: 816.969.1200 | F: 816.969.1221 | cityofls.net

January 25, 2022

Joe Frogge & Mike Weisenborn  
City of Lee's Summit, Missouri  
Development Services  
220 SE Green Street  
Lee's Summit, Missouri 64063

RE: City of Lee's Summit Fire Station #4 and #5  
Modification Request to IBC 2018 Section 1109.2  
Exception #3 - Clustered Multiple Single-User Toilet and Bathing Facilities

Dear Mr. Deister and Mr. Elam:

The Fire Department is constructing two new Fire Stations (No. 4 and No. 5) which will house operational personnel. The two stations will use the same floor plans but on two different sites. Lemay Erickson Willcox Architects (LEWA) and GLMV Architects requests a code modification for the following:

- The request is for the City of Lee's Summit to follow the 2010 Department of Justice "Guidance on the 2010 ADA Standards for Accessible Design" which is attached. The guidance outlines this portion of an Emergency Services building that is covered by the residential dwelling standards rather than the transient lodging standards as these standards apply to the private living spaces of the station (not accessible to the public).

Sincerely,

[Signature]  
Matthew Fadel, AIA, LEED AP  
Project Manager

January 25, 2022

Joe Frogge & Mike Weisenborn  
City of Lee's Summit, Missouri  
Development Services  
220 SE Green Street  
Lee's Summit, Missouri 64063

RE: City of Lee's Summit Fire Station #4 and #5  
Modification Request to IBC 2018 Section 508.4.4 and Section 1020.1

Dear Mr. Frogge and Mr. Weisenborn:

The Fire Department is constructing two new Fire Stations (No. 4 and No. 5) which will house operational personnel. The two stations will use the same floor plans but on two different sites. Lemay Erickson Willcox Architects (LEWA) and GLMV Architects request a code modification for the following:

- The occupancy classification of the building is designed as "Mixed-Use, non-separated". The design designates the first floor spaces (plan-south of the apparatus bays) as "Business Group B" while the second floor spaces are designated as "Residential Group R-2". In accordance with IBC Section 508.4.4, Table 508.4.4, the code requires that there be a 1-hour fire-rated separation between those occupancies. Also, in accordance with IBC Table 1020.1, because the total occupant load in the R-2 occupancy is greater than 10 (12 total occupants), the required fire-resistance rating for the corridor is 1-hour rating to the exit. The occupants of the R-2 spaces are professional, able-bodied firefighters who will have a detailed familiarity of the building where they will spend most of their time. They are also equipped with the knowledge and experience to handle fire-related issues within their own building. We request that the City of Lee's Summit eliminate the requirement for the "B" and "R-2" occupancies to have 1-hour fire rated separation between occupancies and to eliminate the continuous 1-hour fire rating for egress to an exit. This would allow for the main stair to be open and communicate between the first and second floors and would also allow the two response fire poles to serve as the secondary means of egress from the second floor to the building exits.

Sincerely,

[Signature]  
Matthew Fadel, AIA, LEED AP  
Project Manager

February 10, 2022

Joe Frogge & Mike Weisenborn  
City of Lee's Summit, Missouri  
Development Services  
220 SE Green Street  
Lee's Summit, Missouri 64063

RE: City of Lee's Summit Fire Station #4 and #5  
Modification Request to IBC 2018, CHAPTER 2 - DEFINITIONS to Exit Access as it relates to Section 1006.3.3(2)

Dear Mr. Deister and Mr. Elam:

The Fire Department is constructing two new Fire Stations (No. 4 and No. 5) which will house operational personnel. The two stations will use the same floor plans but on two different sites. Lemay Erickson Willcox Architects (LEWA) and GLMV Architects requests a code modification for the following:

- In accordance with Table 1006.3.3(2), the R-2 Use Group on the second floor requires a second exit or access to a second exit from the second floor to the first floor, and the main stair is designated as an Exit Access Stair; the request is for the City of Lee's Summit to consider the fire response pole included as a part of the "Exit Access".
- The plan current represents two response poles located at approximately the one-third and two-thirds points of the second floor corridor. As the second floor will house the private banks of professional, able-bodied firefighters, they will have a very high level of familiarity and comfort with the use of such poles. The occupants will readily use those devices as part of their means of egress out of the station. The three vertical egress elements are located on the second floor and provide egress paths that allow for remote ways of exiting the building safely and address the intent of the code.

Sincerely,

[Signature]  
Matthew Fadel, AIA, LEED AP  
Project Manager



CONSULTING ARCHITECT  
FSMA ARCHITECTS  
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RESTON, VIRGINIA 20190  
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GLMV ARCHITECTURE, INC.  
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MISSOURI LANDSCAPE COA #000008  
9229 WARD PARKWAY, SUITE # 210  
KANSAS CITY, MO 64114  
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STRUCTURAL ENGINEER  
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MISSOURI COA #001644  
2501 NE MULBERRY, SUITE 201  
LEE'S SUMMIT, MO 64086  
(816) 444-3144

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HOCK & BROWN ENGINEERS  
MISSOURI COA #01022  
15902 MIDLAND DRIVE  
SHAWNEE, KS 66217  
(913) 362-9090

SECURITY & IT ENGINEERS  
HENDERSON ENGINEERS  
MISSOURI COA #000556  
1801 MAIN STREET, SUITE 300  
KANSAS CITY, MO 64108  
(816) 863-8700

FIRE STATION #5  
CITY OF LEE'S SUMMIT  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082  
ISSUED FOR CONSTRUCTION

REVISIONS:  
# Description Date



PAUL J. MICHELL - ARCHITECT  
MO# A-2009021701

PROJECT NO: 18225R21001  
DATE: 11.21.2022  
DRAWN BY: JSP  
CHK'D BY: PJM

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CODE MODIFICATION

G-003

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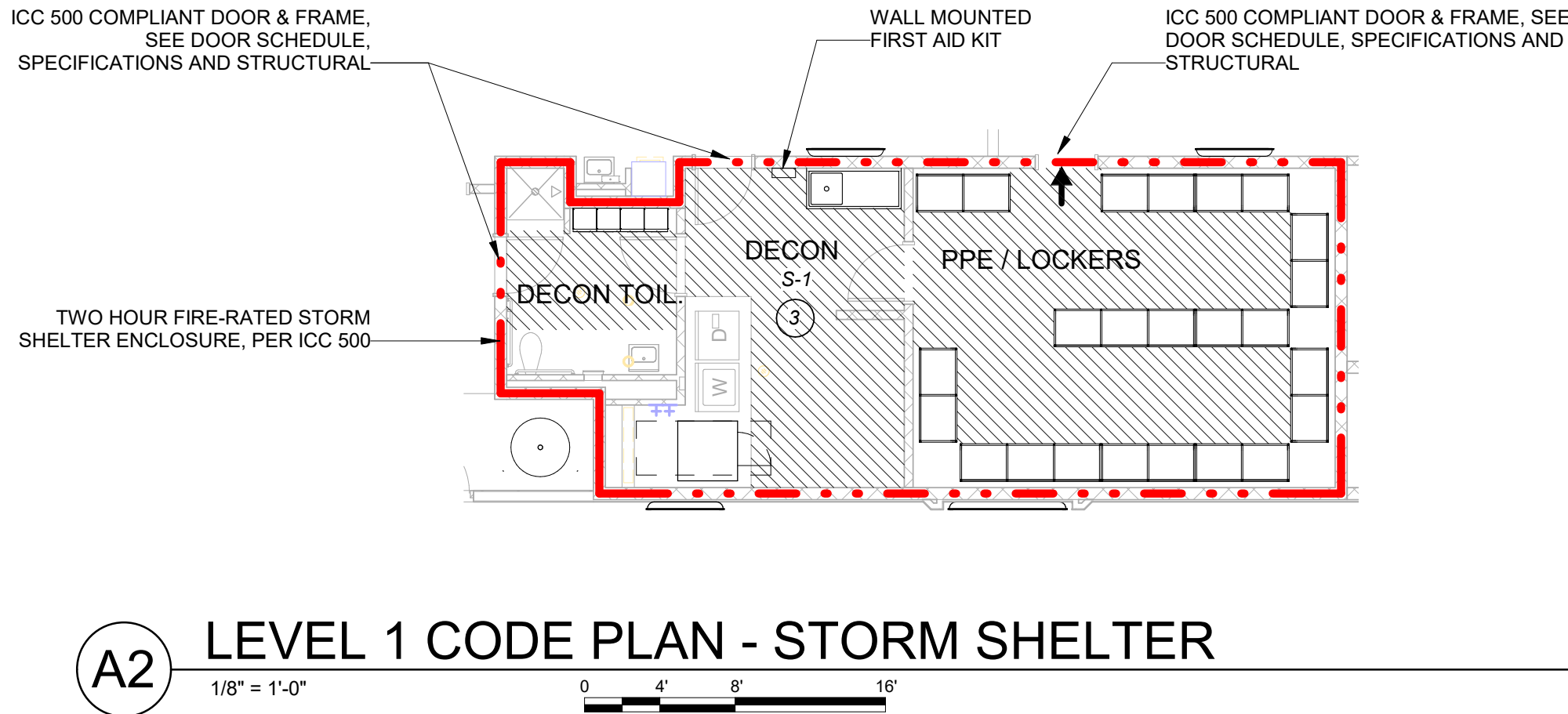
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## STORM SHELTER INFORMATION:

THE PROJECT HAS BEEN DESIGNED TO THE ICC 500-2020, ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTER REQUIREMENTS.

SEE STRUCTURAL, ARCHITECTURAL, INTERIOR, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND CALCULATIONS NOT REPRESENTED ON THIS SHEET.

REFER TO THIS SHEET FOR EXTENTS OF THE STORM SHELTER.

[S106.2.1] DESIGN INFORMATION		
• TYPE:		COMMUNITY SHELTER FOR TORNADO PROTECTION
• RISK CATEGORY:		IV (FIRE, RESCUE, AMBULANCE AND POLICE STATIONS)
• DESIGN WIND SPEED (V <sub>f</sub> ):		250 MPH
• WIND EXPOSURE CATEGORY:		C
• INTERNAL PRESSURE COEFFICIENT (GC <sub>pi</sub> ):		+/- 0.55
• TOPOGRAPHIC FACTOR (K <sub>zt</sub> ):		1.0
• DIRECTIONALITY FACTOR (K <sub>d</sub> ):		1.0
• DESIGN WIND PRESSURE FOR THE SPECIFICATION OF COMPONENTS AND CLADDING OF THE STORM SHELTER ENVELOPE		SEE STRUCTURAL SHEET S-001
• SITING:		
• MINIMUM FLOOR ELEVATION PER AUTHORITY HAVING JURISDICTION		N/A
• 500-YEAR FLOOD ELEVATION		N/A - STRUCTURE NOT LOCATED IN A FLOOD ZONE
• STORM SURGE FLOOD ELEVATION		N/A - STRUCTURE NOT LOCATED IN A FLOOD ZONE
• STORM SHELTER FLOOR ELEVATION		100' - 0" (909.24' CIVIL)
• OCCUPANT LOAD (AS A STORM SHELTER)		
• DESIGN OCCUPANCY LOAD		80
• USABLE FLOOR AREA		407 S.F. (AS INDICATED WITH HATCHED AREA PER §502.4.2)
• VENTING AREA:		REFERENCE MPE SHEET
• SANITATION FIXTURE CALCULATION (TABLE 702.3)		
• STORM SHELTER TYPE:		COMMUNITY, DESIGN OCCUPANCY LOAD >= 50
• WATER CLOSETS:		1 (1 PER 250 FOR THE FIRST 500 OCCUPANTS) REQ'D, 1 PROVIDED
• HAND WASHING FACILITIES:		1 (1 PER 1,000 OCCUPANTS) REQ'D, 1 PROVIDED
• MINIMUM FOUNDATION REQUIREMENTS		
• CAPACITY		REFERENCE STRUCTURAL SHEETS
• THICKNESS		REFERENCE STRUCTURAL SHEETS
• STEEL REINFORCEMENT/ CONCRETE COVER		SEE STRUCTURAL SHEETS
• INSTALLATION REQUIREMENTS		
• ANCHOR LOCATION, MINIMUM EDGE/ END DISTANCE		REFERENCE STRUCTURAL SHEETS
• MIN. REQUIRED CAPACITY POST-INSTALLED ANCHORS		

MAXIMUM TRAVEL DISTANCE TO ICC-500 SHELTER:  
1,000'-0" MAX. REQUIRED (PER IBC 423).  
163'-0" PROVIDED FROM ROOM 203A.

STORM SHELTER SITING:  
1. STORM SHELTER HAS NOT BEEN DESIGNED WITHIN AN AREA ON THE SITE SUSCEPTIBLE TO FLOODING.  
2. STORM SHELTER HAS NOT BEEN DESIGNED WITHIN AN AREA PROXIMATE TO HAZARDOUS MATERIALS.  
3. STORMSHELTER IS LOCATED OUTSIDE A HIGH-RISK FLOOR HAZARD AREA.

## SECTION 504 SIGNAGE FOR COMMUNITY SHELTERS

**508.1 SIGNAGE REQUIREMENTS.**  
All storm shelters shall be marked with design inforamtion in accordance with Section 508.2. Community storm shelter areas shall be marked by signage in acco4rdance with Sections 508.3 through 508.7, as applicable. All signs shall comply with the visual character requirements of ICC 117.1.

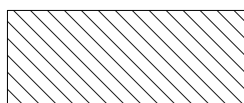
**508.2 DESIGN INFORMATION SIGNAGE.**  
All storm shelters shall have a sign on or within the storm shelter with all of the following:  
1. The design occupant capacity.  
2. The storm type.  
3. The design wind speed.  
4. The edition of the ICC 500 used for the design.  
5. The name of the manufacturer or builder of the storm shelter.

**508.5 DIRECTIONAL SIGNAGE WITHIN A HOST BUILDING**  
Where a storm shelter is within a host building, to direct untended occupants to the storm shelter. The path of travel to the storm shelter shall be clearly marked to indicate the direction of travel in cases where the path of travel is not immediately visible to the intended occupants.

**508.6 ENTRY SIGNAGE**  
Signage indicating "Tornado Shelter" or "Hurricane Shelter" and appropriate symbols as applicable, shall be installed on the outside of the storm shelter, adjacent to every access opening intended to provide entry for occupants into the storm shelter.

**508.7 PERIMETER SIGNAGE**  
Signs shall be installed inside of the storm shelter adjacent to every access or egress opening, which access nonprotected areas located outside of the storm shelter. For example, signage indicating "Notice: Now leaving the Tornado shelter," or "Notice: Now leaving the Hurricane Shelter."

## STORM SHELTER LEGEND



USABLE FLOOR AREA



2 HR FIRE SEPARATION ASSEMBLY -  
REFER TO WALL ASSEMBLY AND PARTITION TYPE DETAILS FOR ASSEMBLY INFORMATION



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KANSAS CITY, MO 64114  
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FAX: (316) 265-5646  
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MISSOURI STATE CERTIFICATE OF AUTHORITY  
#000305

**CONSULTING ARCHITECT**  
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MISSOURI LANDSCAPE COA #000008  
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**STRUCTURAL ENGINEER**  
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250 NE MULBERRY, SUITE 201  
LEE'S SUMMIT, MO 64086  
(816) 444-3144

**MECH., ELECT. & PLUMB. ENGINEERS**  
HOSS & BROWN ENGINEERS  
MISSOURI COA #01022  
15902 MIDLAND DRIVE  
SHAWNEE, KS 66217  
(913) 362-9090

**SECURITY & IT ENGINEERS**  
HENDERSON ENGINEERS  
MISSOURI COA #000556  
1801 MAIN STREET, SUITE 300  
KANSAS CITY, MO 64108  
(816) 663-8700

**FIRE STATION #5  
CITY OF LEE'S SUMMIT**  
**801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082**  
**ISSUED FOR CONSTRUCTION**

REVISIONS:

#	Description	Date
---	-------------	------



PAUL J. MICHELL - ARCHITECT  
MO# A-2009021701

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PROJECT NO: 18225R21001

DATE: 11.21.2022

DRAWN BY: JSP

CHK'D BY: PJM

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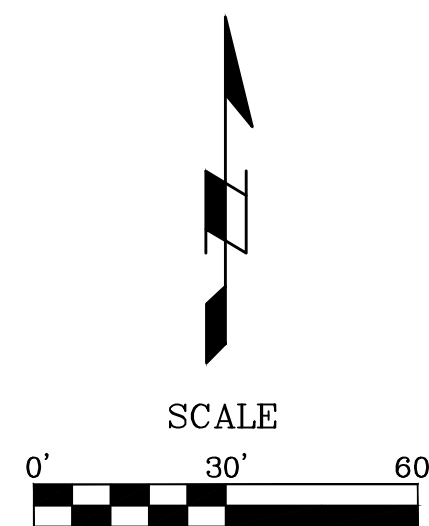
**STORM SHELTER  
CODE SUMMARY**

**G-004**

PLEASE CONSIDER THE ENVIRONMENT  
BEFORE PRINTING THIS



ALTA/NSPS LAND TITLE SURVEY  
NW 1/4, SECTION 31, TOWNSHIP 47 NORTH, RANGE 31 WEST  
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



LEGEND

- △ - SECTION CORNER AS NOTED
- - MONUMENT FOUND AS NOTED
- - SET MONUMENT AS NOTED
- - FOUND 1/2" IRON BAR AT CORNER UNLESS OTHERWISE NOTED
- - SET 1/2" IRON BAR AT CORNER W/ J & J CAP
- (P) - PLATTED DISTANCE
- (M) - MEASURED DISTANCE
- L/S - LANDSCAPED AREA
- B/L - BUILDING SETBACK LINE
- I/E - INGRESS- EGRESS EASEMENT
- U/E - UTILITY EASEMENT
- ⊕ - POWER POLE
- ⊙ - LIGHT POLE
- - GUY WIRE
- EM - ELECTRIC METER
- ET - ELECTRIC SECTIONALIZER
- ET - ELECTRIC TRANSFORMER
- ⊕ - TRAFFIC SIGNAL POLE
- WM - WATER METER
- ⊗ - WATER VALVE
- ⚡ - FIRE HYDRANT
- ⊙ - SANITARY MANHOLE
- ⊙ - STORM MANHOLE
- ⊙ - TELEPHONE PEDESTAL
- ⊙ - BOLLARD
- ⊙ - PARKING STALL
- ⊙ - SIGN AS NOTED
- ⊙ - FIBER OPTIC MARKER
- OHE - OVERHEAD ELECTRIC
- FO - FIBER OPTIC LINE
- W - UNDERGROUND WATER

CLIENT:  
GLIMV Architecture  
Attn: Paul J. Michell  
9229 Ward Parkway Ste. 210  
Kansas City, Mo 64082

PROPERTY ADDRESS:  
801 SW MO-150 HIGHWAY  
Lee's Summit, Mo 64082

UTILITY NOTE:

The utilities on this survey are shown based on source information from plans and markings and were combined with observed evidence of utilities pursuant to Section 5.E.iv, to develop a view of the underground utilities. However, lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted. In addition, in some jurisdictions, 811 or other similar utility locate requests from surveyors may be ignored or result in an incomplete response, in which case the surveyor shall note on the plat or map how this affected the surveyor's assessment of the location of the utilities. Where additional or more detailed information is required, the client is advised that excavation and/or a private utility locate request may be necessary.

GENERAL SURVEY NOTES:

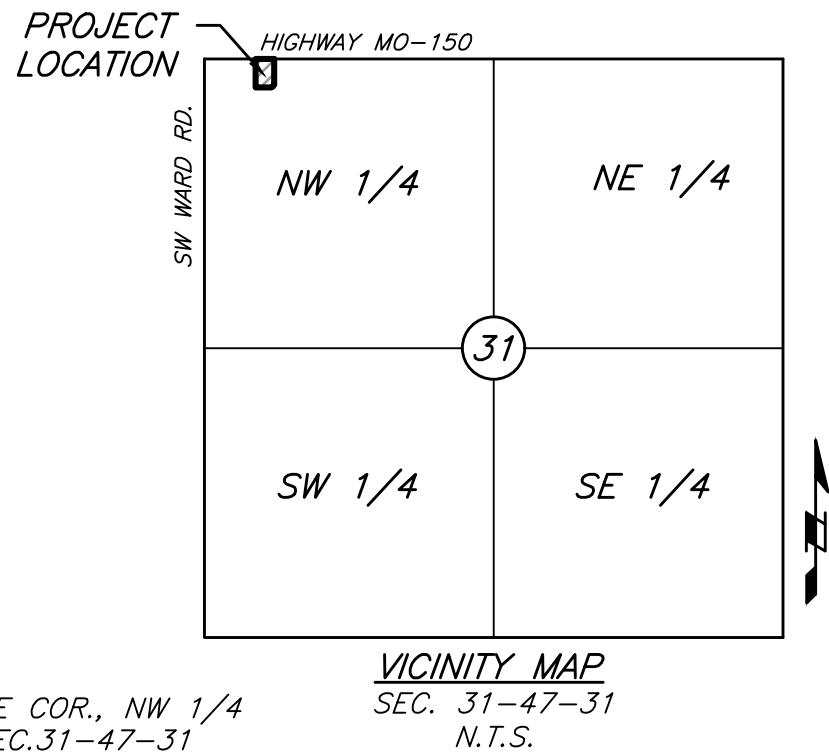
- 1.) The plat of RAINTREE LAKE VILLAGE is recorded in Plat Book 1-89 at Page 66 in the Recorder of Deeds Office in Jackson County, Missouri.
- 2.) Title Report No. MJ117076 dated April 12, 2021 at 8:00 am provided by First American Title Insurance Company.
- 3.) Bearings used on this survey are based on the Missouri State Plane coordinate system from GPS observation.
- 4.) The subject property is located in Zone X, areas determined to be outside the 0.2% annual chance floodplain, as shown on Flood Insurance Rate Map (FIRM) 29095C0532C, effective January 20, 2017.
- 5.) There are NO parking stalls identified on Subject Property at the time of this survey.
- 6.) There were no Wetland delineation at the time of survey.
- 7.) This property is Zoned CP-2, Planned Community Commercial
- 8.) Water utilities are based on the City Map image provided by City of Lee's Summit, Missouri, GIS department.

SURVEY CONTROL POINTS				
Point #	Northing	Easting	Elevation	Description
1	974540.74	2824139.37	993.44	JA137
41	977854.30	2818488.69	998.56	CHLSD SQ
50	978172.10	2818534.58	1002.12	CP +
51	977856.50	2818545.74	1001.18	CP +
52	977819.61	2818298.73	991.45	CP +

BENCHMARKS:

STATION JA 137: Alum Disk, Located about 0.7 miles South of the intersection of highway 150 and highway 291 of Lee's Summit.

ELEVATION = 993.44



TITLE DESCRIPTION:

Lot 5, RAINTREE LAKE VILLAGE, a subdivision in Lee's Summit, Jackson County, Missouri.

SCHEDULE B - PART II NOTES:

Items 1 - 7 and 14 - 18 are non survey related

8.) Easements, restrictions and setback lines as per plat, recorded in Plat Book 89, Page 66. Affects the the Subject Property and is shown hereon.

9.) The terms and provisions contained in the document entitled "Decree" recorded December 23, 1992, as Document No. Affects the the Subject Property and is Blanket in nature.

10.) The premises described herein lie within the Raintree Lake Village Transportation Development District according to the Circuit Court Case No. 0516-V22158 recorded October 31, 2005 as Document No. 2005I0096572 of Official Records. Affects the Subject Property but has nothing to plat.

11.) Building restrictions and restrictions as to use and occupancy as set forth in Declaration of Restrictions, recorded December 22, 2005, Document No. 2005I0112172, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions, or restrictions violate Title 42, Section 3604 of the United States Codes or any State Statute or Local Ordinance. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status. I1156654 in Book I2335, Page 1479 of Official Records. Affects the Subject Property and is Blanket in nature.

12.) The terms and provisions contained in the document entitled "Cooperative Agreement" recorded October 11, 2006 as Document No. 2006E0105458 of Official Records. Affects the Subject property and is Blanket in nature.

13.) Declaration of Covenants, Conditions and Restrictions, recorded October 29, 1973, Document No. 1167323 in Book I478, Page 989 but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, or national origin to the extent such covenants, conditions or restrictions violate 42USC 3604(c) or any similar state statute or local ordinance. Does not affect the Subject Property.

The above contains provision for among other things, the levy of assessments by Raintree Lake Property Owners Association, Inc., a Missouri not-for-profit corporation, which if unpaid, may become a lien thereon.

Amendment of Declaration of Covenants, Conditions and Restrictions recorded August 16, 1984, as Document No. I584739 in Book I1341, Page 1995. Does not affect the Subject Property.

Declaration of Annexation recorded August 9, 1985, as Document No. I641018 in Book I1449, Page 1536 of Official Records, Affects the Subject Property and is Blanket in Nature subject to the premises in question to the Declaration of Covenants, Conditions and Restrictions recorded as Document No. I167323 in Book I478, Page 989. Does not affect the Subject Property.

Developer Rights Assignment Agreement filed October 04, 2000 as Document No. 2000I0066205. Affects the Subject Property and is shown hereon.

Certification Concerning Declaration of Covenants, Conditions and Restrictions recorded November 14, 2013, as Document No. 2013E0118167. Affects the Subject Property and is Blanket in nature.

14.) The Premises described herein may lie within the boundaries of a public sewer district, Pursuant to 249.255 and 249.645 Rsmo Supp. 1991. Does not affect the Subject Property.

15.) Rights of parties in possession under unrecorded leases. Does not affect the Subject Property.

16.) Any lien or right to lien by any Real Estate Brokers or Real Estate Appraisers. Does not affect the Subject Property.

17.) If there has been construction, improvements or repairs to or on the property in the last 12 months, or a portion or all of the loan proceeds will be used for such, then unrecorded mechanics lien coverage will not be furnished unless arrangements are made prior to closing. If the property is 1-4 family residential and we are being asked to extend mechanic's lien coverage (through date downs or otherwise) on a construction loan, a Mechanic's Lien Indemnity Agreement secured by a satisfactory Letter of Credit will need to be furnished to the company. If the transaction is not a residential construction loan, either the aforesaid secured indemnity or satisfactory financial statements, indemnities, affidavits and possibly lien waivers, will need to be furnished to the company. Failure to notify the company in writing before closing will invalidate any mechanic's lien coverage given in the policy. Does not affect the Subject Property.

CERTIFICATION:  
To: First American Title Insurance Company, Assured Quality Title Company and Raintree Investors, LLC, a Missouri limited liability company.  
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 7a, 8, 9, 11b, 13 and 16 of Table A thereof. The field work was completed on the 16th day of July, 2021.



Location: S:\21071 - Lees Summit Fire Stations\DRAWINGS\3736 REGATA\8-6-21 revisions\ALTA 8-6-21 Regata.dwg Aug 12, 2021-11:23am

08-04-21

08-12-21

INITIAL SUBMITTAL

REVISED PER COMMENTS

1

2

SHEET 1 OF 1



6500 NW TOWER DR., SUITE 102 • PLATTE WOODS, MO 64151  
PHONE (816) 41-1017 • FAX (816) 41-1018



LEE'S SUMMIT FIRE STATION NO. 5

801 SW MO 150 HIGHWAY

LEE'S SUMMIT, MISSOURI 64082

FINAL DEVELOPMENT PLAN

PL2022358

PRCOM20225393

CONSULTANT:



GLMV Architecture

1525 E. Douglas, Wichita, KS 67211  
Tel: (316) 265-9387  
www.glmv.com

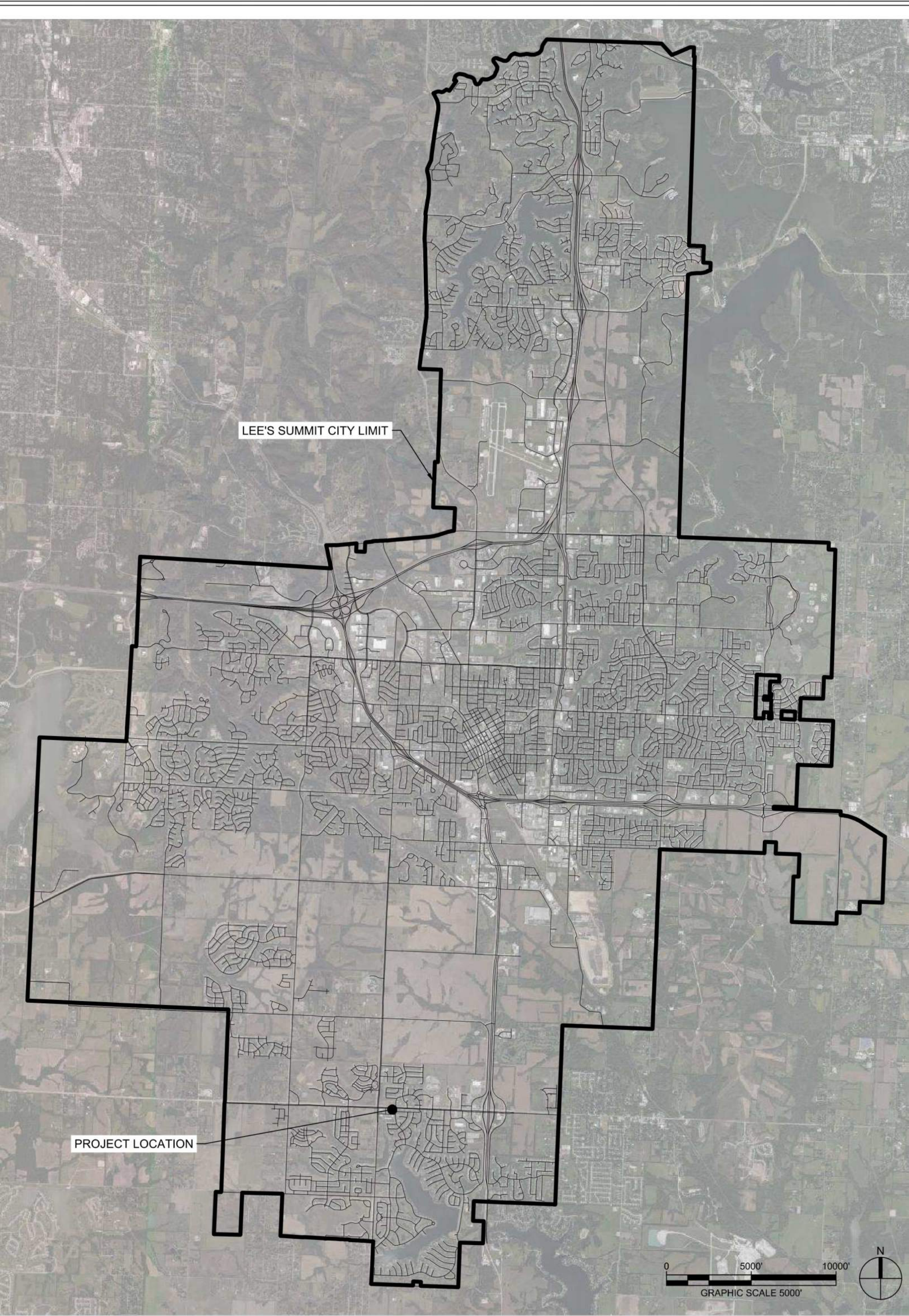
9229 WARD PKWY  
KANSAS CITY, MISSOURI 64114  
DERICK HOLMES  
DERICK.HOLMES@GLMV.COM  
T (816) 444-4200

PARCEL INFORMATION:

ACREAGE:	1.00
ADDRESS:	801 SW MO 150 HIGHWAY LEE'S SUMMIT, MO 64082
LEGAL DESCRIPTION	ALL OF LOT 5, RAINTREE LAKE VILLAGE, A SUBDIVISION IN THE NW 1/4 OF SECTION 31, T-47 N, R-31 W, LEE'S SUMMIT, JACKSON COUNTY, MISSOURI
FEMA FLOODPLAIN	THE SUBJECT PROPERTY IS LOCATED IN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM) 29095C0532G, EFFECTIVE JANUARY 20, 2017.
OIL AND GAS WELLS	NO EVIDENCE OF OIL OR GAS WELLS WERE FOUND ON LOT 6-A AND THE PORTION OF LOT 7 PROPOSED TO BE REPLATTED AS EVIDENCED BY THE FOLLOWING SOURCES 1. ATLAS/NSPS LAND SURVEY PERFORMED BY J&J SURVEYING LLC, DATED AUGUST 12, 2021. 2. MISSOURI SPATIAL DATA INFORMATION SERVICE (FEBRUARY 20, 2022), MO 2018 STATE PERMITTED OIL AND GAS WELLS. RETRIEVED FROM <a href="http://data-msdis.opendata.arcgis.com/datasets">HTTP://DATA-MSDIS.OPENDATA.ARCGIS.COM/DATASETS</a>
ZONING	CP-2, PLANNED COMMUNITY COMMERCIAL

LAND USE SCHEDULE	
TOTAL FLOOR AREA	12,189 SF
NUMBER OF DWELLING UNITS	8
LAND AREA	1.00 ACRES
REQUIRED PARKING	DIRECTED BY FIRE CHIEF
PROPOSED PARKING	13 SPACES
IMPERVIOUS COVERAGE	25,745 SF (.59 ACRES)
FLOOR AREA RATIO (FAR)	0.28
PERMITTED LAND USE	FIRE STATION - MUNICIPAL = CONDITIONAL
DWELLING UNITS PER ACRE WITH COMMON AREA	8
DWELLING UNITS PER ACRE WITHOUT COMMON AREA	8

VICINITY MAP:

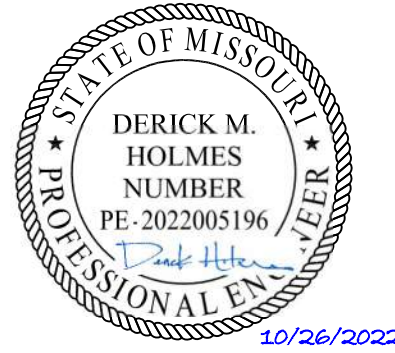


SITE LOCATION MAP:



INDEX OF DRAWINGS

SHEET NO.	SHEET NAME
C-001	COVER SHEET
GS001	ALTA/NSPS LAND TITLE SURVEY
A-101	FIRST FLOOR PLAN
A-102	SECOND FLOOR PLAN
A-201	BUILDING ELEVATIONS
A-202	BUILDING ELEVATIONS
C-100	SITE PLAN
C-101	LAYOUT PLAN
C-102	DEMOLITION PLAN
C-103	EROSION CONTROL PLAN
C-104	GRADING & DRAINAGE PLAN
C-105	UTILITY PLAN
C-220	PUBLIC WATER PLAN & PROFILE
C-231	PUBLIC STORMWATER PROFILES
C-231	PRIVATE STORMWATER PROFILES
C-400	SITE ENLARGEMENTS
C-401	SITE ENLARGEMENTS
C-402	SITE ENLARGEMENTS
C-500	SITE DETAILS
C-501	SITE DETAILS
C-502	SITE DETAILS
C-503	SITE DETAILS
C-504	SITE DETAILS
C-510	EROSION CONTROL DETAILS
C-511	EROSION CONTROL DETAILS
C-520	WATER DETAILS
C-521	WATER DETAILS
C-530	STORMWATER DETAILS
C-531	STORMWATER DETAILS
C-532	STORMWATER DETAILS
C-540	SANITARY SEWER DETAILS
ME001	MPE SITE PLAN
ME002	SITE LIGHTING PHOTOMETRIC PLAN
L-100	LANDSCAPE SCHEDULE
L-101	LANDSCAPE PLAN



RELEASED FOR CONSTRUCTION  
As Noted on Plans Review  
Development Services Department  
Lee's Summit, Missouri  
12/30/2022

Digitally signed by Mike Weisenborn  
Date: 2022.12.30 11:57:48-0500

REVISIONS:		
#	Description	Date

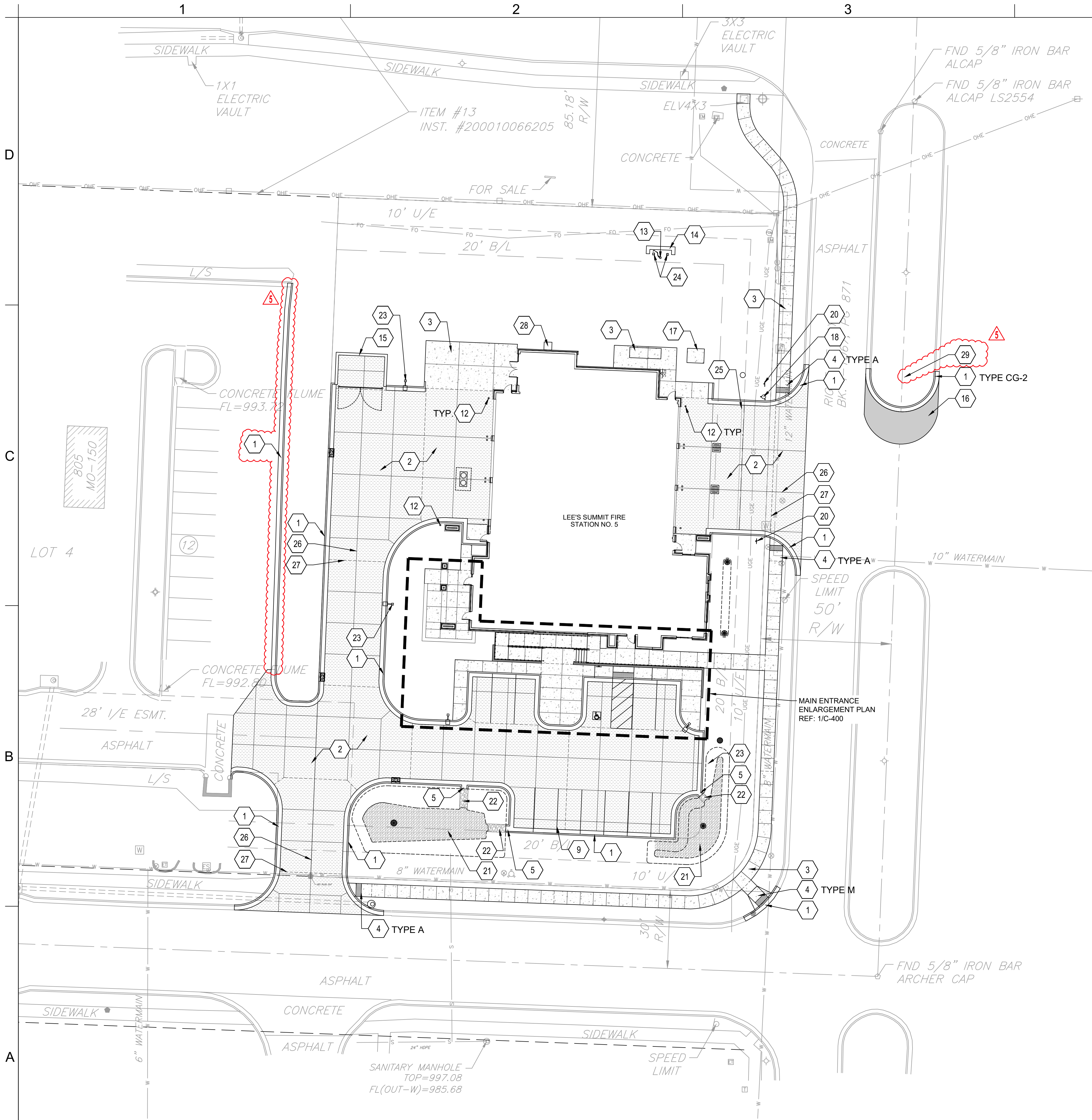
ISSUED FOR PERMITTING

PROJECT NO: 18225R21001  
DATE: 10.26.2022

COVER SHEET

C-001





GENERAL SITE NOTES:

1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL.
3. CONTRACTOR SHALL CONTACT DIG SAFE PRIOR TO ANY EXCAVATION/DIGGING.
4. ALL EXISTING CONDITIONS, DIMENSIONS, AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST, PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
5. CONTRACTOR SHALL REPAIR ALL DISTURBED LANDSCAPING.
6. REFERENCE GRADING & DRAINAGE PLAN FOR DETAILED CURB TRANSITION POINTS.

KEYNOTES

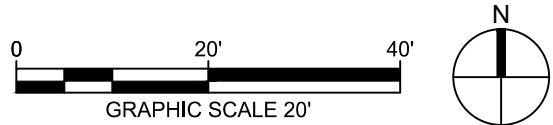
- 1 TYP. CURB & GUTTER  
TYPE CG-1 UNLESS OTHERWISE NOTED.  
LEE'S SUMMIT STANDARD DETAIL  
REF: 3/C-503
- 2 TYP. CONCRETE PAVING  
REF: 1/C-500
- 3 CONCRETE SIDEWALK PAVING  
REF: 1/C-504
- 4 ADA SIDEWALK RAMP.  
REF: 3/C-504
- 5 CURB CUT  
REF: 11/C-500
- 6 RETAINING WALL  
REF: STRUCTURAL
- 7 CONCRETE STEPS  
REF: 4/C-502
- 8 ADA RAMP AND GALVANIZED HANDRAIL  
REF: 2, 3, 4, 5/C-502
- 9 PAVEMENT STRIPING  
REF: 3/C-500
- 10 ADA PAVEMENT MARKING  
REF: 4/C-500
- 11 ADA PARKING SIGN  
REF: 5/C-500
- 12 TYP. SAFETY BOLLARD  
REF: 2/C-500
- 13 FLAG POLE  
REF: 7/C-500
- 14 MONUMENT SIGN  
REF: 8-10/C-500
- 15 DUMPSTER ENCLOSURE  
REF: 1-6/C-501
- 16 ROADWAY ASPHALT PATCH  
LEE'S SUMMIT STANDARD DETAIL  
REF: 2/C-504
- 17 TRANSFORMER CONCRETE PAD  
REF: MEP
- 18 RELOCATED FIRE HYDRANT  
REF: C-220
- 19 SCREEN WALL  
REF: ARCH
- 20 DO NOT ENTER SIGN  
REF: 6/C-500
- 21 MISSOURI RIVER ROCK, 1"-1½" IN SIZE.  
PLACED OVER GEOTEXTILE FABRIC.  
REF: 3 & 4/C-401
- 22 MISSOURI RIVER ROCK RIPRAP, 3"-5" IN SIZE.  
PLACED OVER GEOTEXTILE FABRIC.  
REF: 11/C-500
- 23 TYP. AREA LIGHTING  
REF: ELECTRICAL
- 24 TYP. FLAG POLE LIGHTING  
REF: ELECTRICAL
- 25 LIMIT OF SNOW MELT SYSTEM  
REF: MEP
- 26 CONSTRUCTION JOINT  
REF: 2/C-503
- 27 ISOLATION JOINT  
REF: 2/C-503
- 28 3' X 3' CONCRETE SPLASH BLOCK  
REF: 1/C-504
- 29 INSTALL Boulders in similar layout to existing.  
INSTALL RELOCATED SHRUBS.  
ADJUST IRRIGATION LINES AND HEADS.

LEGEND

- TYP. CURB & GUTTER
- TYP. CONCRETE PAVING
- ASPHALT PATCH
- CONCRETE SIDEWALK
- MISSOURI RIVER ROCK
- RETAINING WALL

1 SITE PLAN

1" = 20'-0"



9229 WARD PARKWAY  
SUITE # 210  
KANSAS CITY, MO 64114  
TEL: (816) 444-4200  
FAX: (316) 265-5646  
www.glmv.com

GLMV ARCHITECTURE, INC.  
MISSOURI STATE CERTIFICATE OF AUTHORITY  
#00036

CIVIL ENGINEER & LANDSCAPE ARCH.

GLMV ARCHITECTURE, INC.  
MISSOURI CIVIL COA #2019033898  
MISSOURI LANDSCAPE COA #000008  
9229 WARD PARKWAY, SUITE # 210  
KANSAS CITY, MO 64114  
TEL: (816) 444-4200

STRUCTURAL ENGINEER

LEIGH + O'KANE  
MISSOURI COA #001644  
250 NE MURBERRY, SUITE 201  
LEE'S SUMMIT, MO, 64086  
(816) 444-3144 PHONE

MECH. ELEC. & PLUMBING ENGINEERS

HOSS & BROWN ENGINEERS  
MISSOURI COA #01022  
15902 MIDLAND DRIVE  
SHAWNEE, KS 66217  
(913) 362-9090 PHONE

SECURITY & IT ENGINEERS

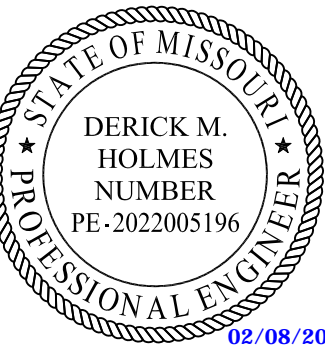
HENDERSON ENGINEERS  
MISSOURI COA # 000556  
1601 MAIN STREET, SUITE 300  
KANSAS CITY, MO 64108  
(816) 663-8700 PHONE

FIRE STATION #5  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

REVISIONS:

#	Description	Date
2	ASI 02	11.22.2022
5	ASI 05	02.08.2023



DERICK HOLMES - CIVIL ENGINEER

MO# PE-2022005196

The Professional Engineers and allied to this sheet applies  
and to the material and work shown on this sheet. It is  
acknowledged that the engineer and allied to this sheet are  
not responsible for the design and construction of the  
work shown on this sheet. The engineer and allied to this  
sheet are not responsible for the design and construction  
of the work shown on this sheet. The engineer and allied  
to this sheet are not responsible for the design and  
construction of the work shown on this sheet.

PROJECT NO: 18225R21001

DATE: 10.26.2022

DRAWN BY: KDW

CHKD BY: DMH

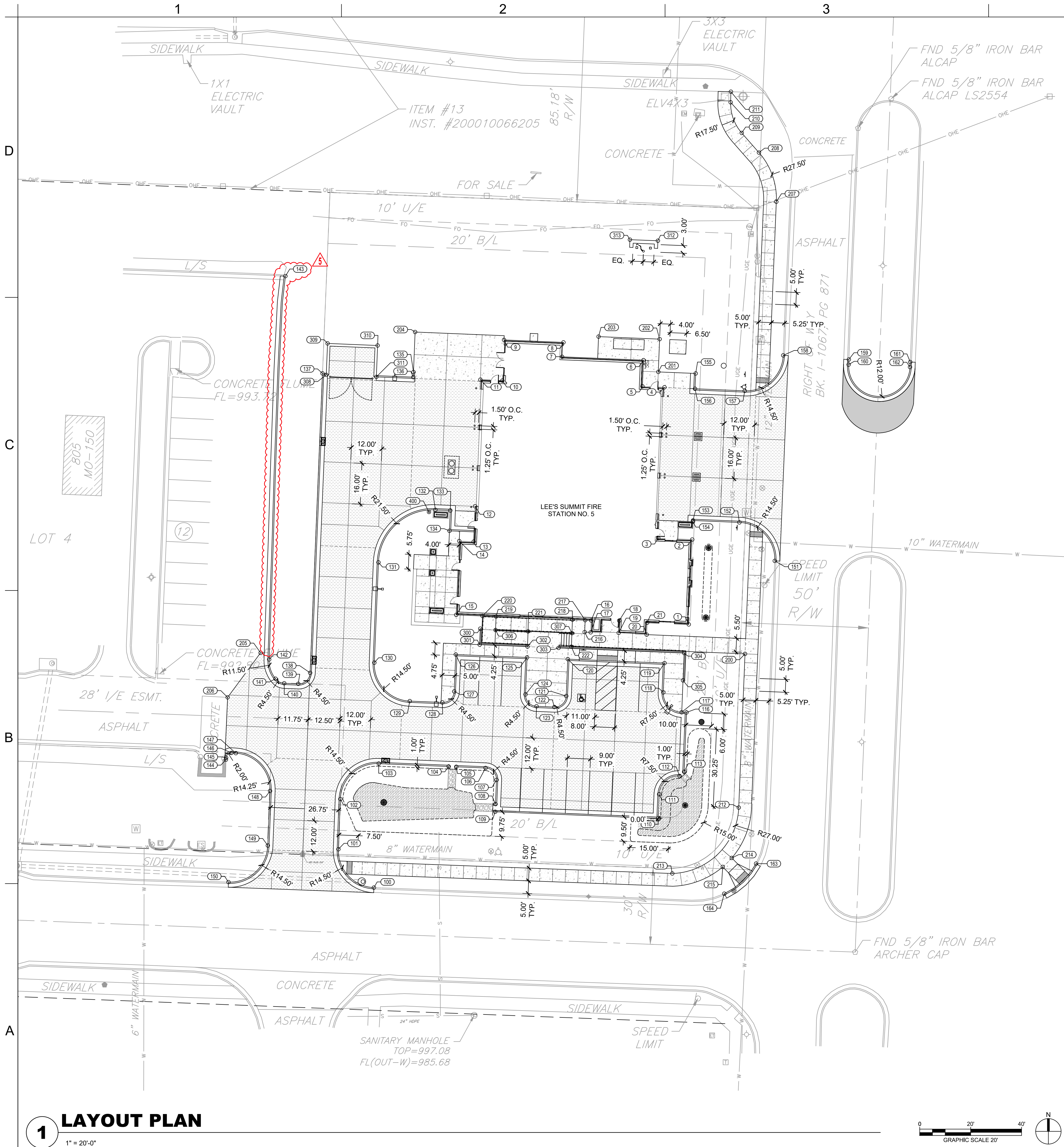
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SITE PLAN

C-100

PLEASE CONSIDER THE ENVIRONMENT  
BEFORE PRINTING THIS





LAYOUT NOTES

- 1. ALL CURB POINTS INDICATE BACK OF CURB UNLESS OTHERWISE NOTED.
- 2. SEE UTILITY PLAN FOR ALL UTILITY LOCATIONS AND LAYOUT.

LAYOUT TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
1	977961.0508	2818527.9968	BLDG
2	977994.3558	2818529.3645	BLDG
3	977994.9029	2818516.0424	BLDG
4	978054.1030	2818518.4736	BLDG
5	978054.4586	2818509.8143	BLDG
6	978064.7417	2818510.2357	BLDG
7	978066.0534	2818478.2947	BLDG
8	978071.7029	2818478.8291	BLDG
9	978072.6603	2818455.5154	BLDG
10	978056.7154	2818454.8606	BLDG
11	978057.0711	2818446.2012	BLDG
12	978007.4046	2818444.1615	BLDG
13	977993.5413	2818443.5922	BLDG
14	977993.7738	2818437.9302	BLDG
15	977964.7985	2818436.7403	BLDG
16	977962.6237	2818489.6956	BLDG
17	977957.9610	2818489.5041	BLDG
18	977962.5471	2818500.7018	BLDG
19	977957.7594	2818500.5051	BLDG
20	977957.0583	2818511.4858	BLDG
21	977961.7210	2818511.6771	BLDG
100	977857.8114	2818404.4309	CURB
101	977872.8579	2818390.5043	CURB
102	977892.5228	2818391.2609	CURB
103	977906.4532	2818406.3451	CURB
104	977905.3279	2818433.7559	CURB
105	977905.2049	2818436.7534	CURB
106	977904.7332	2818448.2432	CURB
107	977900.0523	2818452.5548	CURB
108	977890.5603	2818452.1650	CURB
109	977887.5629	2818452.0419	CURB
110	977884.9368	2818515.9880	CURB
111	977894.4288	2818516.3778	CURB
112	977901.6058	2818524.3953	CURB
113	977903.2415	2818526.1710	CURB
116	977926.5147	2818527.1267	CURB
117	977926.5937	2818525.2050	CURB
118	977934.3951	2818518.0191	CURB
119	977945.8854	2818518.4910	CURB
120	977947.4446	2818480.5230	CURB
121	977932.9569	2818479.9280	CURB
122	977928.8453	2818475.2471	CURB
123	977928.9325	2818468.2530	CURB
124	977933.6134	2818463.9415	CURB
125	977948.1012	2818464.5365	CURB
126	977949.2501	2818436.5600	CURB
127	977934.7623	2818435.9651	CURB
128	977930.4507	2818431.2842	CURB
129	977930.9750	2818418.5014	CURB
130	977946.0563	2818404.6086	CURB
131	977985.3941	2818406.2199	CURB
132	978005.9963	2818428.5798	CURB
133	978005.7578	2818434.4152	CURB
134	977997.7681	2818434.0887	CURB
135	978060.0648	2818419.9688	CURB
136	978058.0664	2818419.8867	CURB
137	978059.5293	2818384.2588	CURB
138	977942.0584	2818379.4156	CURB
139	977937.7481	2818374.7335	CURB
140	977937.9760	2818369.2236	CURB
141	977939.7570	2818365.8193	CURB
142	977947.3249	2818363.3264	CURB
143	978097.7030	2818369.7155	CURB
144	977908.0055	2818346.3667	CURB
145	977908.7720	2818346.4110	CURB
146	977910.6535	2818348.5228	CURB
147	977910.5543	2818350.2429	CURB

LAYOUT TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
148	977895.7090	2818363.6726	CURB
149	977874.3278	2818362.7921	CURB
150	977859.9520	2818347.3463	CURB
151	977985.9905	2818561.7588	CURB
152	978001.0741	2818547.8782	CURB
153	978001.8385	2818529.6722	CURB
154	978001.3499	2818529.6518	CURB
155	978059.5199	2818530.7136	CURB
156	978053.5172	2818530.4621	CURB
157	978052.6995	2818549.9744	CURB
158	978066.5984	2818565.0696	CURB
159	978064.9792	2818590.8405	CURB
160	978062.9815	2818590.7572	CURB
161	978063.9999	2818614.9252	CURB
162	978062.0135	2818614.8424	CURB
163	977867.2305	2818554.4154	CURB
164	977855.4185	2818541.9400	CURB
200	977949.5112	2818550.0897	PAVE
201	978060.1225	2818516.0497	PAVE
202	978072.9884	2818516.5781	PAVE
203	978073.9732	2818492.5983	PAVE
204	978075.7618	2818420.6133	PAVE
205	977949.9284	2818359.9668	PAVE
206	977932.4304	2818347.0272	PAVE
207	978126.8807	2818562.3780	PAVE
208	978146.1608	2818555.5595	PAVE
209	978153.8724	2818548.7836	PAVE
210	978165.8776	2818544.4357	PAVE
211	978170.0400	2818544.5438	PAVE
212	977889.2129	2818547.6134	PAVE
213	977863.3360	2818521.5435	PAVE
214	977869.4400	2818544.8847	PAVE
215	977865.9177	2818541.3361	PAVE
216	977958.0571	2818487.1638	PAVE
217	977962.7199	2818487.3552	PAVE
218	977962.9161	2818482.3591	PAVE
219	977964.1560	2818452.3847	PAVE
220	977964.3751	2818447.0505	PAVE
221	977958.3239	2818464.9486	PAVE
222	977952.3103	2818481.9326	PAVE
300	977959.3831	2818446.1832	WALL
301	977953.1180	2818445.9361	WALL
302	977952.3469	2818464.7108	WALL
303	977951.8460	2818476.9093	WALL
304	977949.8217	2818526.2015	WALL
305	977939.0807	2818525.7604	WALL
306	977958.8485	2818452.1754	WALL
307	977957.6175	2818482.1505	WALL
308	978058.9715	2818385.7372	WALL
309	978071.2940	2818386.2453	WALL
310	978070.4837	2818405.8986	WALL
311	978058.1613	2818405.3905	WALL
312	978111.5826	2818515.8967	WALL
313	978112.0038	2818504.9051	WALL
400	978005.1651	2818426.0425	BOLLARD

LEGEND

- TYP. CURB & GUTTER
- TYP. CONCRETE PAVING
- ASPHALT PATCH
- CONCRETE SIDEWALK
- MISSOURI RIVER ROCK
- RETAINING WALL



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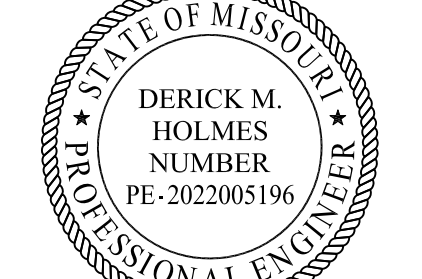
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FIRE STATION #5  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

#	Description	Date
2	ASI 02	11.22.2022
5	ASI 05	02.08.2023



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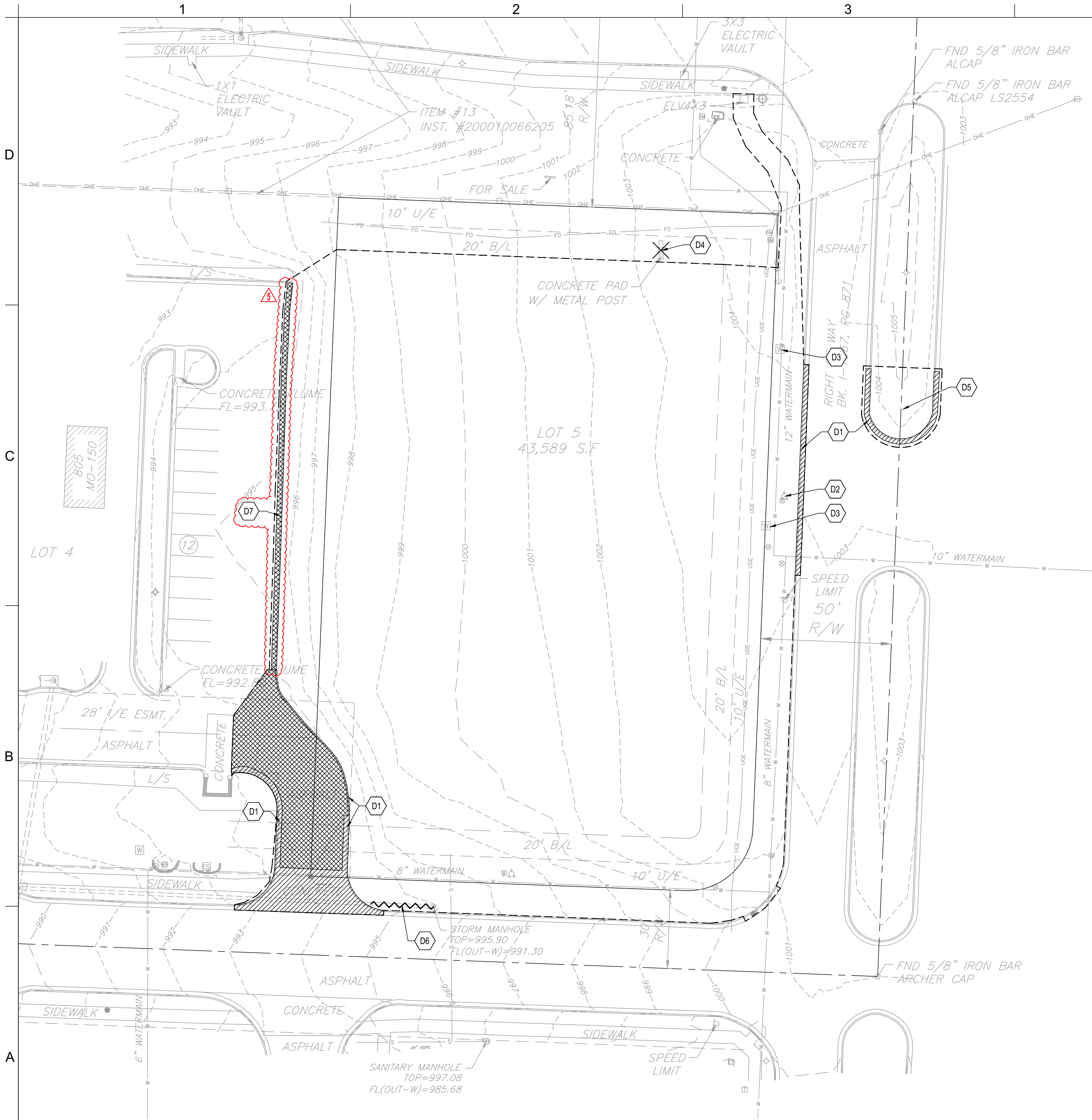
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LAYOUT PLAN

C-101

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GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, UNDERGROUND STORAGE TANKS, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
4. EXISTING PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING WORK TO BE PERFORMED AND REMOVAL OF ALL SERVICE LINES. CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY AS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ROAD RIGHT-OF-WAY DURING CONSTRUCTION.
6. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BMP'S) AS APPROVED BY OWNER, AUTHORITY HAVING JURISDICTION, AND CONSTRUCTION MANAGER.
7. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
8. PRIOR TO ANY DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES MUST BE INSTALLED.
9. ALL DISTURBED FEATURES SHALL BE RESTORED OR RELOCATED AS REQUIRED TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL REPAIR/REPLACE ANY SURROUNDING FEATURES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
11. CONTRACTOR TO CLEAR SITE TO EXTENTS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
12. CONTRACTOR SHALL REMOVE ALL TREES AND SHRUBS WITHIN PROPERTY BOUNDARY LIMITS NOT INDICATED AS PROTECTED OR TO REMAIN.

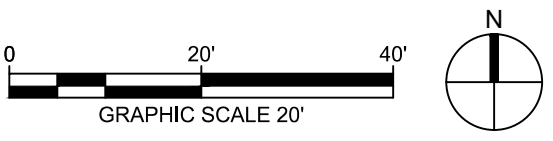
KEYNOTES

- D1 REMOVE CURB & GUTTER
- D2 RELOCATE FIRE HYDRANT  
REF: C-220
- D3 ADJUST WATER VALVE  
TO PROPOSED GRADE
- D4 REMOVE SIGN POST AND FOUNDATION.  
CAP AND ABANDON ALL ELECTRICAL IN PLACE
- D5 MOVE BOULDERS AND LANDSCAPE TO BE  
EQUIDISTANT FROM CURB AS EXISTING CONDITION
- D6 REMOVE STORMWATER PIPE. REMOVE AND RELOCATE  
STORM STRUCTURE, REF: C-104
- D7 REMOVE ASPHALT CURB  
REF: 3/C-503, CURB REPLACEMENT DETAIL

LEGEND

- PAVEMENT TO BE REMOVED
- ASPHALT PAVEMENT TO BE REMOVED
- SITE FEATURE TO BE REMOVED
- APPROXIMATE LIMITS OF DISTURBANCE

1 DEMOLITION PLAN



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**FIRE STATION #5**  
CITY OF LEES SUMMIT  
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LEES SUMMIT, MISSOURI 64082

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

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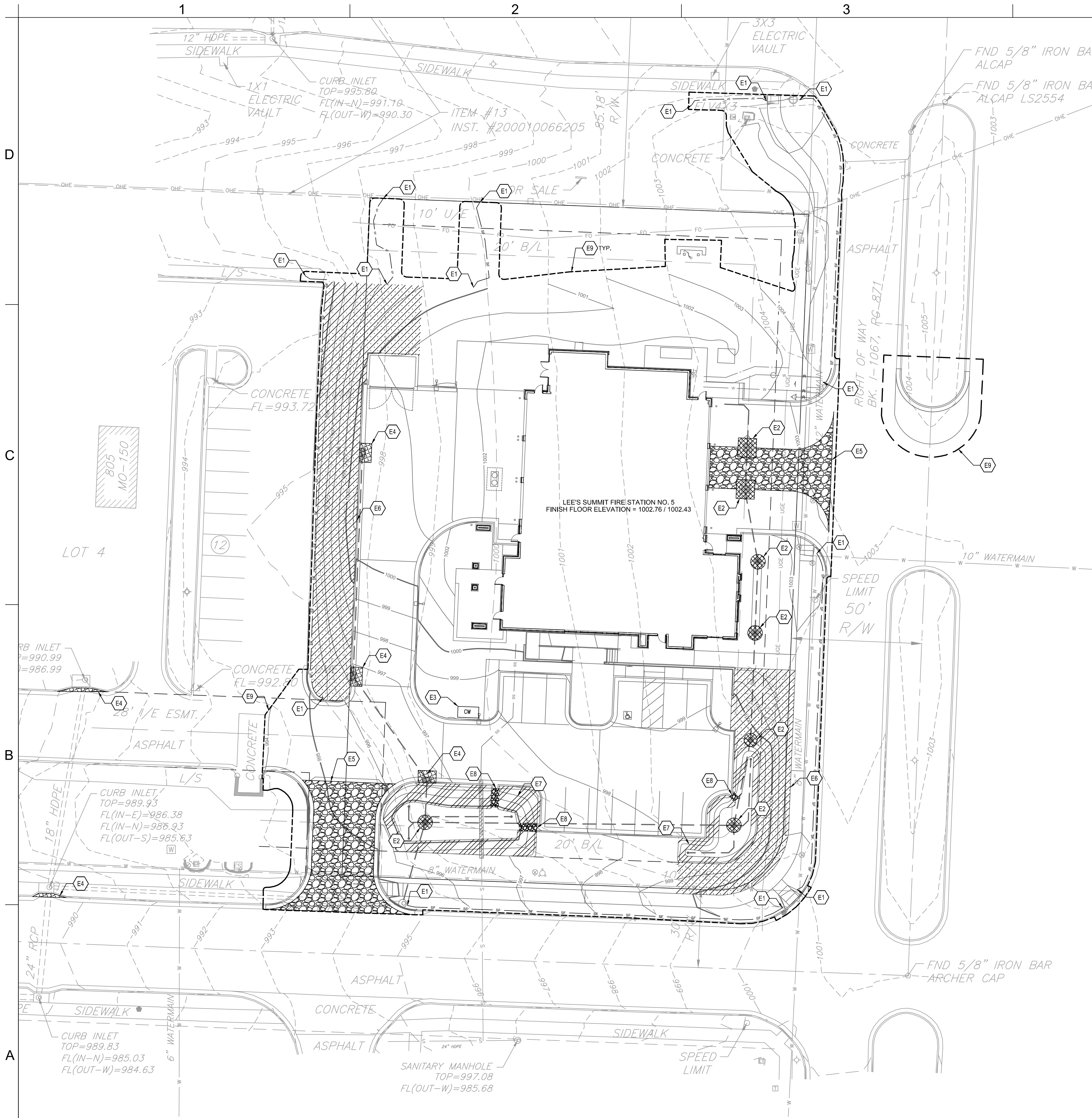
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**DEMOLITION PLAN**

**C-102**

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GENERAL EROSION AND SEDIMENT CONTROL NOTES:

THIS SHEET OUTLINES MINIMUM STORMWATER PRACTICES TO BE FOLLOWED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREVENTION OF SOIL OR SEDIMENT LOSS FROM THE CONSTRUCTION SITE. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC SEDIMENT AND EROSION CONTROL SCHEDULE. THESE NOTES ARE TO BE USED AS A GUIDELINE ONLY. THE PROJECT IS NOT CONSIDERED COMPLETE UNTIL ALL PERMANENT EROSION AND SEDIMENT CONTROLS AND STORMWATER MANAGEMENT PRACTICES ARE IN PLACE TO THE SATISFACTION OF THE OWNER AND ENGINEER. ALL TEMPORARY PRACTICES MUST BE PROPERLY REMOVED.

IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS PURSUANT TO THE GENERAL NPDES PERMIT FOR CONSTRUCTION STORMWATER, A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED FOR THIS SITE. THE PLAN WAS DEVELOPED TO MINIMIZE THE EFFECTS OF SOIL EROSION AND RESULTING SEDIMENT LOSS. PREVENTION WILL BE PROVIDED THROUGH THE USE OF PROPER CONSTRUCTION TECHNIQUES. THESE TECHNIQUES WILL INCLUDE BOTH TEMPORARY AND PERMANENT MANAGEMENT PRACTICES. TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE CONSTRUCTION SITE, THE FOLLOWING STEPS SHALL BE TAKEN DURING CONSTRUCTION:

1. PRIOR TO STARTING ANY SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES AND GRAVEL CONSTRUCTION ENTRANCES.
2. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE KANSAS CITY METRO CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION. INSTALL SILT FENCE AT INDICATED LOCATIONS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION. SILT FENCE SHALL BE KEPT IN PLACE UNTIL THE PROJECT IS STABILIZED.
3. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS AND PAVED STREETS. THIS MAY INCLUDE PERIODIC TOP DRESSING WITH ADDITIONAL CRUSHED STONE AS CONDITIONS WARRANT. REPAIR OF ENTRANCE(S) AND CLEANING OF RIGHT-OF-WAYS AND PAVED STREETS THAT HAVE BEEN SOILED BY CONSTRUCTION ACTIVITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
4. DURING ALL SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE THE TIME OF EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL. PARTICULAR CARE MUST BE EXERCISED WHEN DEALING WITH STOCKPILES OF TOPSOIL OR FILL MATERIALS AND WITH SOIL ON SLOPES.
5. SOIL STOCKPILED FOR MORE THAN 7 DAYS WILL HAVE SILT FENCE PLACED ON THE DOWNHILL SIDE TO TRAP SEDIMENT.
6. NO GROUND SHALL BE LEFT DISTURBED FOR MORE THAN 14 DAYS OF NON-ACTIVITY WITHOUT BEING TEMPORARILY MULCHED AND/OR SEEDED.
7. EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR NOT LESS THAN WEEKLY AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO SEDIMENT REMOVAL AND SILT FENCE REPAIR AND/OR REPLACEMENT.
8. WHENEVER DIRT, ROCK, OR OTHER MATERIALS ARE EXPORTED FOR PLACEMENT IN AREAS OFF THE PRIMARY CONSTRUCTION SITE, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THAT ALL JURISDICTIONAL AUTHORITY REQUIREMENTS ARE MET. PRIOR TO THE REMOVAL OF ANY MATERIALS FROM THE SITE THE CONTRACTOR WILL FURNISH THE ENGINEER WITH A WRITTEN AGREEMENT, SIGNED BY EACH LANDOWNER WHO WILL RECEIVE EXPORTED MATERIALS, STATING THAT THE RECEIVING SITE WILL BE PROPERLY PERMITTED, WHEN REQUIRED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND EXPENSES OF PROVIDING EROSION AND SEDIMENT CONTROL MEASURES.
10. CONTRACTOR SHALL KEEP A WRITTEN LOG OF WHEN CONSTRUCTION ACTIVITIES BEGIN, EROSION AND SEDIMENT CONTROLS ARE INSTALLED, INSPECTED, AND REPAIRED. COPIES OF LOG SHALL BE FURNISHED TO THE ENGINEER.
11. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED UPON STABILIZATION OF DISTURBED AREAS.

EROSION AND SEDIMENT CONTROL PHASING SCHEDULE	
PRIOR TO CONSTRUCTION	1. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES. 2. INSTALL TEMPORARY PERIMETER SILT FENCE. 3. INSTALL TEMPORARY EXISTING CURB INLET PROTECTION.
DURING CONSTRUCTION	1. INSTALL THE FOLLOWING AS SITE IMPROVEMENTS ARE COMPLETED: A. TEMPORARY CURB AND AREA INLET PROTECTION. B. TEMPORARY EROSION AND SEDIMENT CONTROL BLANKETS. C. PERMANENT TURF REINFORCEMENT MATS. 2. TEMPORARY SEED AREAS OF SITE, AS REQUIRED (SEE NOTE 6).
AFTER CONSTRUCTION	1. SEED, FERTILIZE, AND MULCH ALL SLOPES AND DISTURBED AREAS. 2. PERFORM SITE CLEANUP. 3. REMOVE TEMPORARY PRACTICES AND PERIMETER CONTROLS ONCE FINAL STABILIZATION HAS BEEN ACHIEVED.

EROSION CONTROL KEYNOTES

- E1

SILT FENCE  
REF: 3 / C-510
- E2

AREA INLET AND JUNCTION BOX PROTECTION  
REF: 1 / C-511
- E3

CONCRETE WASHOUT  
REF: 1 / C-510
- E4

CURB INLET PROTECTION  
REF: 4 / C-510
- E5

CONSTRUCTION ENTRANCE  
REF: 1 / C-510
- E6

TEMPORARY EROSION CONTROL BLANKET  
REF: 2 / C-510
- E7

PERMANENT TURF REINFORCEMENT MAT  
REF: 2 / C-510
- E8

RIPRAP  
REF: C-100
- E9

LIMITS OF DISTURBANCE

LEGEND	
-----	LIMITS OF DISTURBANCE
— SF —	SILT FENCE
	AREA INLET PROTECTION
	CONCRETE WASHOUT
	CURB INLET PROTECTION
	CONSTRUCTION ENTRANCE
	TEMPORARY EROSION CONTROL BLANKET
	PERMANENT TURF REINFORCEMENT MAT
	RIPRAP



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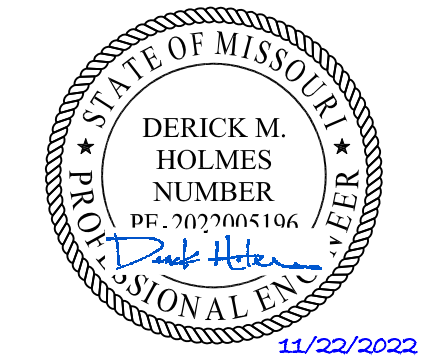
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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT  
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LEE'S SUMMIT, MISSOURI 64082

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2	ASI 02	11.22.2022



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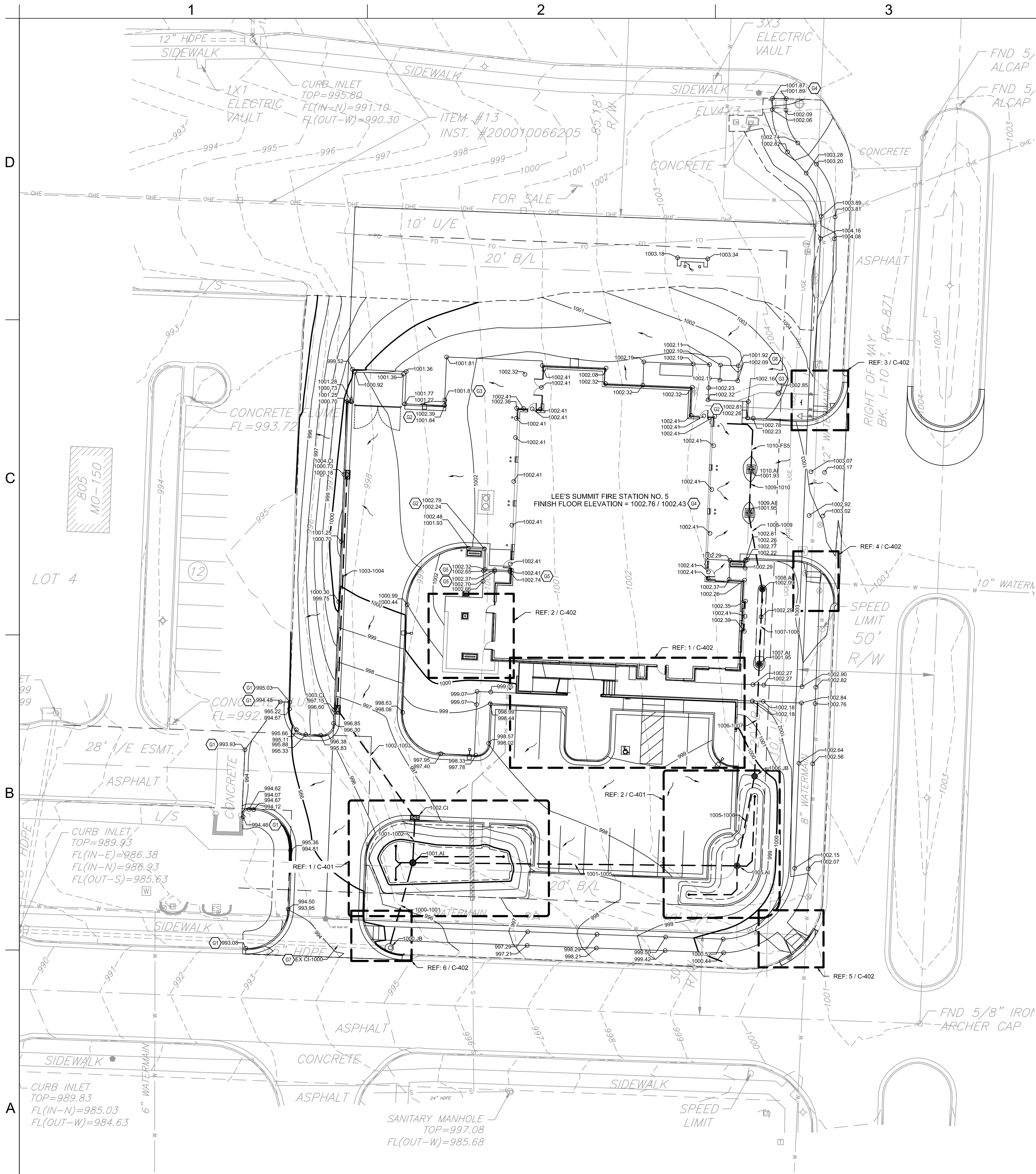
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**EROSION CONTROL PLAN**

**C-103**

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### GENERAL GRADING & DRAINAGE NOTES:

1. SITE GRADING MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AS REFERENCED IN THIS PLAN SET. ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL. THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.
2. ALL PROPOSED CONTOUR LINES AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE ELEVATIONS. CONTRACTOR SHALL ACCOUNT FOR PAVEMENT DEPTHS, BUILDING PADS, LOW VOLUME CHANGE MATERIAL, TOPSOIL, ETC. WHEN GRADING THE SITE.
3. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED (GREEN SPACES) SHALL BE FINISH GRADED WITH A MINIMUM OF SIX INCHES OF TOPSOIL.
4. ALL EXCAVATIONS AND EMBANKMENTS SHALL COMPLY WITH THE RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER.
5. FINISHED GRADES SHALL NOT BE STEEPER THAN 3:1, UNLESS NOTED OTHERWISE ON THE PLANS.
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS OF CONNECTION POINTS AS SHOWN ON GRADING PLANS. NOTIFY ENGINEER IF DISCREPANCY EXISTS FOR DIRECTION.
7. ALL GRADES SHALL BE CONTOURED SMOOTHLY WITH GENTLE ROUNDING/SHAPING OF ALL AFFECTED LAND SURFACES. ABRUPT TRANSITIONS AT THE TOP OF SLOPES WHERE PROPOSED GRADES MEET EXISTING ARE NOT ACCEPTABLE. GRADING SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE ADDITION OF THE TOPSOIL LAYER.
8. SEE DRAWINGS C-230 AND C-231 FOR STORMWATER INFORMATION.

### ADA NOTES:

1. ALL ACCESSIBLE (A.K.A. ADA) COMPONENTS AND ACCESSIBLE ROUTES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF: (A) THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12101 ET SEQ. AND 42 U.S.C. § 4151 ET SEQ.); AND (B) ANY APPLICABLE LOCAL AND STATE GUIDELINES, AND ANY AND ALL AMENDMENTS TO BOTH, WHICH ARE IN EFFECT WHEN THESE PLANS WERE COMPLETED.
2. THE CONTRACTOR MUST REVIEW ALL DOCUMENTS REFERENCED IN THESE NOTES FOR ACCURACY, COMPLIANCE, AND CONSISTENCY WITH INDUSTRY GUIDELINES.
3. THE CONTRACTOR MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ACCESSIBLE (ADA) COMPONENTS AND ACCESSIBLE ROUTES FOR THE SITE. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACES, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, AND INTER-BUILDING ACCESS TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT MUST COMPLY WITH THE ACCESSIBLE GUIDELINES AND REQUIREMENTS WHICH INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
  - 3.1. ACCESSIBLE PARKING SPACES AND ACCESS AISLE SLOPES MUST NOT EXCEED 1:50 (2.0%) IN ANY DIRECTION.
  - 3.2. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE MUST PROVIDE A 48-INCHES MINIMUM WIDTH. UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS) MUST NOT REDUCE THIS MINIMUM WIDTH. THE SLOPE MUST NOT EXCEED 1:20 (5.0%) IN THE DIRECTION OF TRAVEL AND MUST NOT EXCEED 1:50 (2.0%) IN CROSS SLOPE. WHERE ACCESSIBLE PATH OF TRAVEL IS GREATER THAN 1:20 (5.0%), AN ACCESSIBLE RAMP MUST BE PROVIDED. ALONG THE ACCESSIBLE PATH OF TRAVEL, OPENINGS MUST NOT EXCEED 1/2-INCH IN WIDTH. VERTICAL CHANGES OVER 1/4-INCH ARE PERMITTED.
  - 3.3. ACCESSIBLE RAMP SLOPES MUST NOT EXCEED A SLOPE OF 1:12 (8.3%) AND A RISE OF 30-INCHES. LEVEL LANDINGS MUST BE PROVIDED AT EACH END OF ACCESSIBLE RAMP. LANDING MUST PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES, AND MUST NOT EXCEED 1:50 (2.0%) SLOPE IN ANY DIRECTION. RAMP SLOPES THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS MUST HAVE A CLEAR LANDING OF A MINIMUM OF 60-INCHES BY 60-INCHES. HANDRAILS ON BOTH SIDES OF THE RAMP MUST BE PROVIDED ON AN ACCESSIBLE RAMP WITH A RISE GREATER THAN 6-INCHES.
  - 3.4. ACCESSIBLE CURB RAMP SLOPES MUST NOT EXCEED A SLOPE OF 1:12 (8.3%). WHERE FLARED SIDES ARE PROVIDED, THEY MUST NOT EXCEED 1:10 (10%) SLOPE. LEVEL LANDING MUST BE PROVIDED AT RAMP'S TOP AT A MINIMUM OF 36-INCHES LONG (48-INCHES PREFERRED). IN ALTERATIONS, WHEN THERE IS NO LANDING AT THE TOP, FLARE SIDES SLOPES MUST NOT EXCEED A SLOPE OF 1:12 (8.3%).
  - 3.5. DOORWAY LANDING AREAS MUST BE PROVIDED ON THE EXTERIOR SIDE OF ANY DOOR LEADING TO AN ACCESSIBLE PATH OF TRAVEL. THIS LANDING MUST BE SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA MUST BE NO FEWER THAN 60-INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE CLEARLY PERMITTED BY ACCESSIBLE STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2009 AND OTHER REFERENCES INCORPORATED BY CODE).
  - 3.6. WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ACCESSIBLE COMPONENTS FROM EXISTING DOORWAYS OR SURFACES, THE CONTRACTOR MUST VERIFY ALL EXISTING ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS FOR ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES IN RARE CIRCUMSTANCES. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD. IN WRITING, OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR IN ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS BEFORE COMMENCING. ANY CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE ACCESSIBLE GUIDELINES.
  - 3.7. THE CONTRACTOR MUST VERIFY ALL OF THE SLOPES OF THE CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-COMFORMANCE EXISTS OR IS OBSERVED OR DISCOVERED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IN WRITING, PRIOR TO POURING CONCRETE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND/OR REPLACE NON-COMFORMING CONCRETE AND/OR PAVEMENT SURFACES.
4. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION TO ENSURE SAME IS CONSISTENT WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCING CONSTRUCTION.

### GRADING & DRAINAGE KEYNOTES:

- G1 (+/-) MATCH EXISTING ELEVATION. NOTIFY ENGINEER IF SIGNIFICANT DISCREPANCY EXISTS.
- G2 START TRANSITION FROM FULL-DEPTH CURB
- G3 FLUSH CURB
- G4 FINISH GRADE AT DOORS SET 1" BELOW FINISH FLOOR ELEVATIONS TO ACCOUNT FOR THRESHOLDS.
- G5 4" CURB
- G6 SPOT ELEVATION DENOTES FINISH GRADE AT PAD EDGE AND NOT TOP OF PAD ELEVATION.
- G7 PUBLIC STORMWATER LINE, STORMWATER LINES NOT DENOTED WITH KEYNOTE G7 SHALL BE PRIVATE LINES.

### LEGEND

- 1289.00 SPOT ELEVATION
- 1289.00 TOP OF CURB ELEVATION
- 1288.45 FLOWLINE ELEVATION
- 1289.00 TW 1279.00 BW TOP OF RETAINING WALL BOTTOM OF RETAINING WALL
- 430 PROPOSED MAJOR CONTOUR
- 429 PROPOSED MINOR CONTOUR
- 430 EXISTING CONTOUR
- FLOWLINE ARROW
- PROPOSED STORM SEWER
- PROPOSED CURB INLET
- PROPOSED AREA INLET
- BIORETENTION BASIN / SWALE EDGE

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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

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DERICK M. HOLMES  
NUMBER  
PE-2022005196  
11/22/2022  
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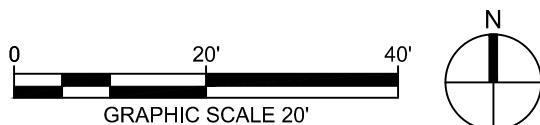
**GRADING & DRAINAGE PLAN**

**C-104**

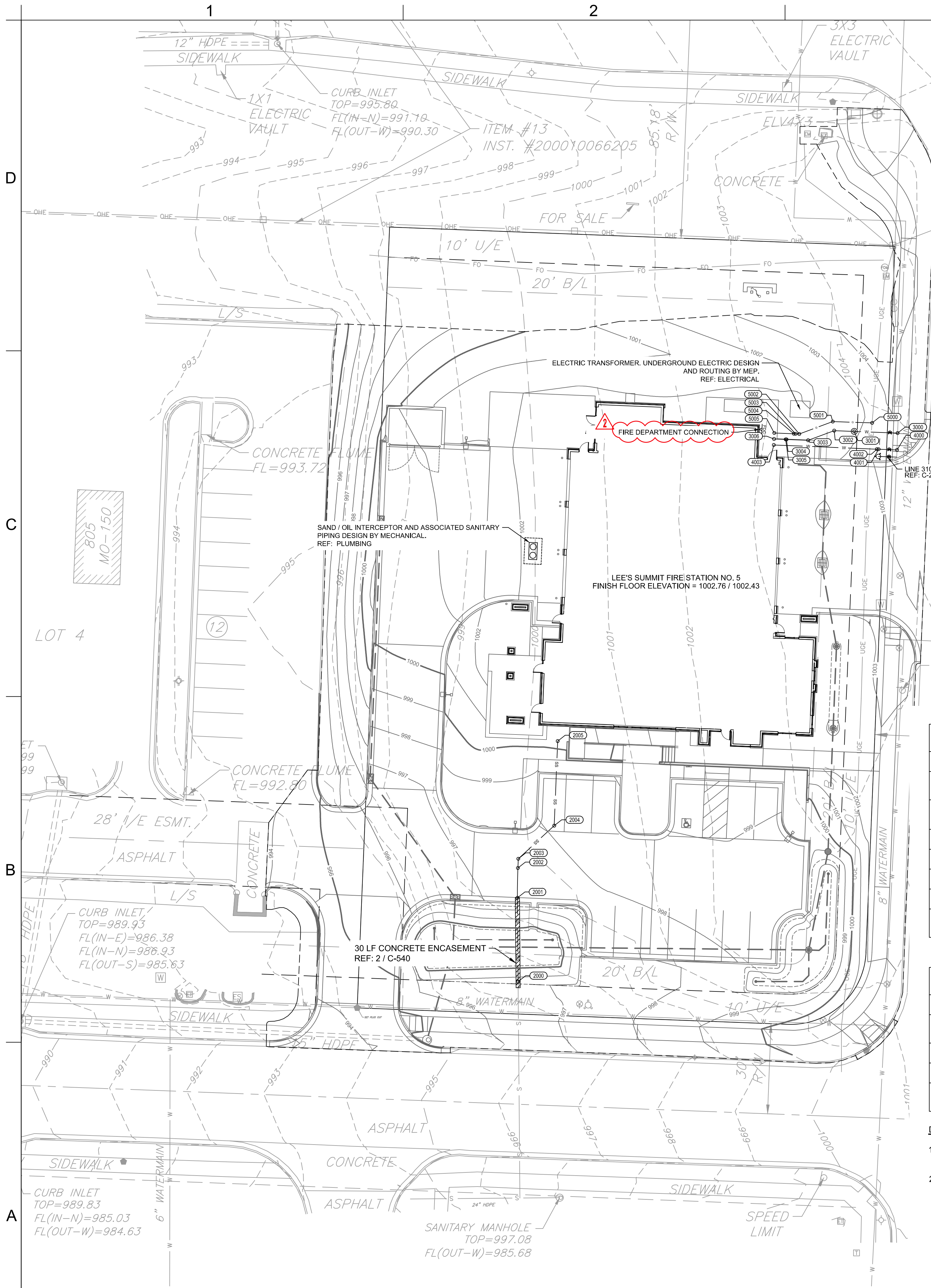
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## 1 GRADING & DRAINAGE PLAN

1" = 20'-0"







DOMESTIC WATER INFORMATION				
POINT #	NORTHING	EASTING	SIZE & MATERIAL   MIN. TOP OF PIPE   NOTES	
3000	978062.00	2818556.14	2" SOFT TYPE "K" COPPER SERVICE LINE   1000.29   CONNECT TO EXISTING 12" WATER MAIN AND INSTALL ISOLATION VALVE.	
3001	978062.55	2818541.72	2" SOFT TYPE "K" COPPER SERVICE LINE   999.35   DOMESTIC WATER SERVICE CONNECTION WITH METER WELL ; REF: 1 / C-521	
3002	978062.80	2818535.06	2" SOFT TYPE "K" COPPER SERVICE LINE   998.90   22.5 DEG ELBOW	
3003	978059.60	2818526.39	2" SOFT TYPE "K" COPPER SERVICE LINE   998.71   22.5 DEG ELBOW	
3004	978059.87	2818519.19	2" SOFT TYPE "K" COPPER SERVICE LINE   998.79   FIELD BEND	
3005	978059.88	2818518.90	2" SOFT TYPE "K" COPPER SERVICE LINE   998.79   FIELD BEND	
3006	978060.04	2818515.05	2" SOFT TYPE "K" COPPER SERVICE LINE   998.84   UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION.	

FIRE PROTECTION INFORMATION				
POINT #	NORTHING	EASTING	SIZE & MATERIAL   MIN. TOP OF PIPE   NOTES	
4000	978056.38	2818555.93	6" PVC   999.91   CONNECT TO EXISTING 12" WATER MAIN & INSTALL ISOLATION VALVE.	
4001	978056.61	2818549.82	6" PVC   1000.05   FIELD BEND	
4002	978056.64	2818549.24	6" PVC   1000.05   FIELD BEND	
4003	978058.04	2818514.97	6" PVC   998.87   UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION.	

- DOMESTIC WATER AND FIRE NOTES**
- DOMESTIC WATER AND FIRE SERVICE LINES SHALL BE INSTALLED PER CITY OF LEE'S SUMMIT STANDARD SPECIFICATIONS.
  - ALL FIRE PROTECTION PVC SHALL BE C900.

- GENERAL UTILITY NOTES:**
- UTILITY CONSTRUCTION SHALL COMPLY WITH THE STANDARD SPECIFICATIONS, CODES, AND DETAILS OF THE CITY OF LEE'S SUMMIT, MO AND UTILITY PROVIDERS.
- INSTALLATION, BEDDING, & TESTING OF UTILITY INSTALLATIONS SHALL BE AS PER CITY OF LEE'S SUMMIT, MO STANDARD SPECIFICATIONS AND STANDARD SPECIAL PROVISIONS.
  - THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION AND FOR MAKING HIS OWN VERIFICATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
  - PROTECT ALL COMPONENTS DURING DEMOLITION / CONSTRUCTION PROCESS. MAINTAIN BMP'S THROUGHOUT THE DURATION OF CONSTRUCTION.
  - STUB ALL CONNECTIONS TO WITHIN 5' OF THE BUILDING TO PROVIDE CONNECTION INTO THE BUILDING BY MECHANICAL PLUMBING CONTRACTOR.
  - CONTRACTOR TO PROVIDE DETAILED AS-BUILT DRAWINGS TO OWNER, ENGINEER, AND CITY OF LEE'S SUMMIT, MO UPON COMPLETION OF ALL UTILITIES.
  - UTILITY TRENCH BACKFILL SHALL BE PER PROJECT SPECIFICATIONS.
  - UTILITY PIPE LENGTHS ARE PROVIDED FOR INFORMATION ONLY. CONTRACTOR TO VERIFY ACTUAL LENGTHS OF PIPE REQUIRED PRIOR TO BIDDING & INSTALLING UTILITIES.
  - UTILITY CONTRACTOR TO COORDINATE BUILDING CONNECTION POINTS WITH PLUMBING PLAN AND BUILDING CONTRACTOR.
  - CONTRACTOR TO ADJUST EXISTING WATER VALVES TO PROPOSED GRADE, AS REQUIRED.
  - FIELD BEND INFORMATION IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO FOLLOW PIPE MANUFACTURER'S RECOMMENDATIONS FOR FIELD ADJUSTMENTS OF PIPE BETWEEN FITTINGS.

SANITARY SEWER INFORMATION				
POINT #	NORTHING	EASTING	SIZE & MATERIAL   SLOPE DOWNSTREAM   INV. EL.   NOTES	
2000	977879.55	2818429.96	4" PVC   N/A   989.58   CONNECTION TO EXISTING SERVICE. SEE SANITARY SEWER NOTE 2	
2001	977907.40	2818429.72	4" PVC   4.32%   990.78   FIELD BEND	
2002	977917.33	2818429.88	4" PVC   4.32%   991.21   FIELD BEND	
2003	977920.39	2818430.01	4" PVC   4.32%   991.34   45 DEG ELBOW	
2004	977931.40	2818441.95	4" PVC   13.19%   993.49   45 DEG ELBOW	
2005	977959.53	2818443.11	4" PVC   13.19%   997.20   CLEANOUT UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION	

- SANITARY SEWER NOTES**
- ALL PVC PIPE SHALL BE SDR 26.
  - APPROXIMATE LOCATION OF EXISTING SANITARY SEWER STUB (PER CITY AS-BUILTS). CONTRACTOR TO FIELD VERIFY PRIOR TO INSTALLING UPSTREAM PIPE.

GAS INFORMATION				
POINT #	NORTHING	EASTING	FINISHED GRADE   NOTES	
5000	978065.39	2818547.67	1003.19   SEE GAS NOTE 2	
5001	978065.83	2818534.58	1002.30   22.5 DEG ELBOW	
5002	978061.70	2818523.44	1002.22   22.5 DEG ELBOW	
5003	978061.75	2818522.21	1002.23   FIELD BEND	
5004	978061.77	2818521.63	1002.24   FIELD BEND	
5005	978062.04	2818515.13	1002.30   UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION.	

- GAS NOTES**
- GAS LINE DESIGN AND INSTALLATION PER SERVICE PROVIDER.
  - EXISTING GAS NOT PICKED UP ON SITE SURVEY. CONTRACTOR TO COORDINATE WITH SERVICE PROVIDER FOR SERVICING SITE WITH NATURAL GAS.

UTILITY LEGEND	
G	PROPOSED GAS
SS	PROPOSED SANITARY SEWER
---	PROPOSED STORM SEWER
[Symbol]	PROPOSED CURB INLET
[Symbol]	PROPOSED STORMWATER MANHOLE
[Symbol]	PROPOSED AREA INLET
W	PROPOSED WATER
[Symbol]	PROPOSED ISOLATION VALVE
[Symbol]	PROPOSED FIRE HYDRANT
FDC	PROPOSED FIRE DEPARTMENT CONNECTION

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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

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MO# PE-2022005196

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**UTILITY PLAN**

**C-105**

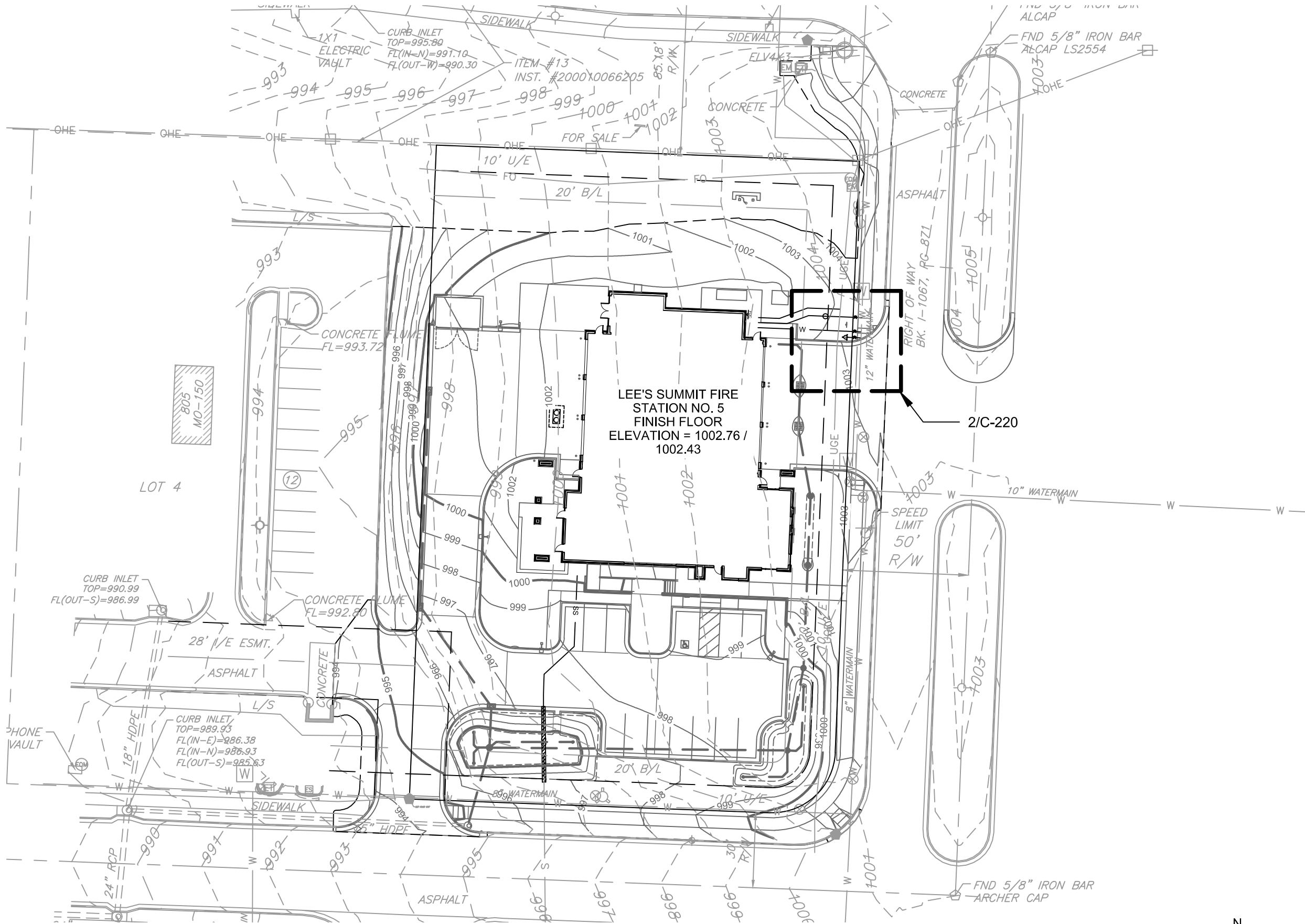


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C  
  
  
B  
  
  
A

1

FIRE PROTECTION LINE PLAN VIEW

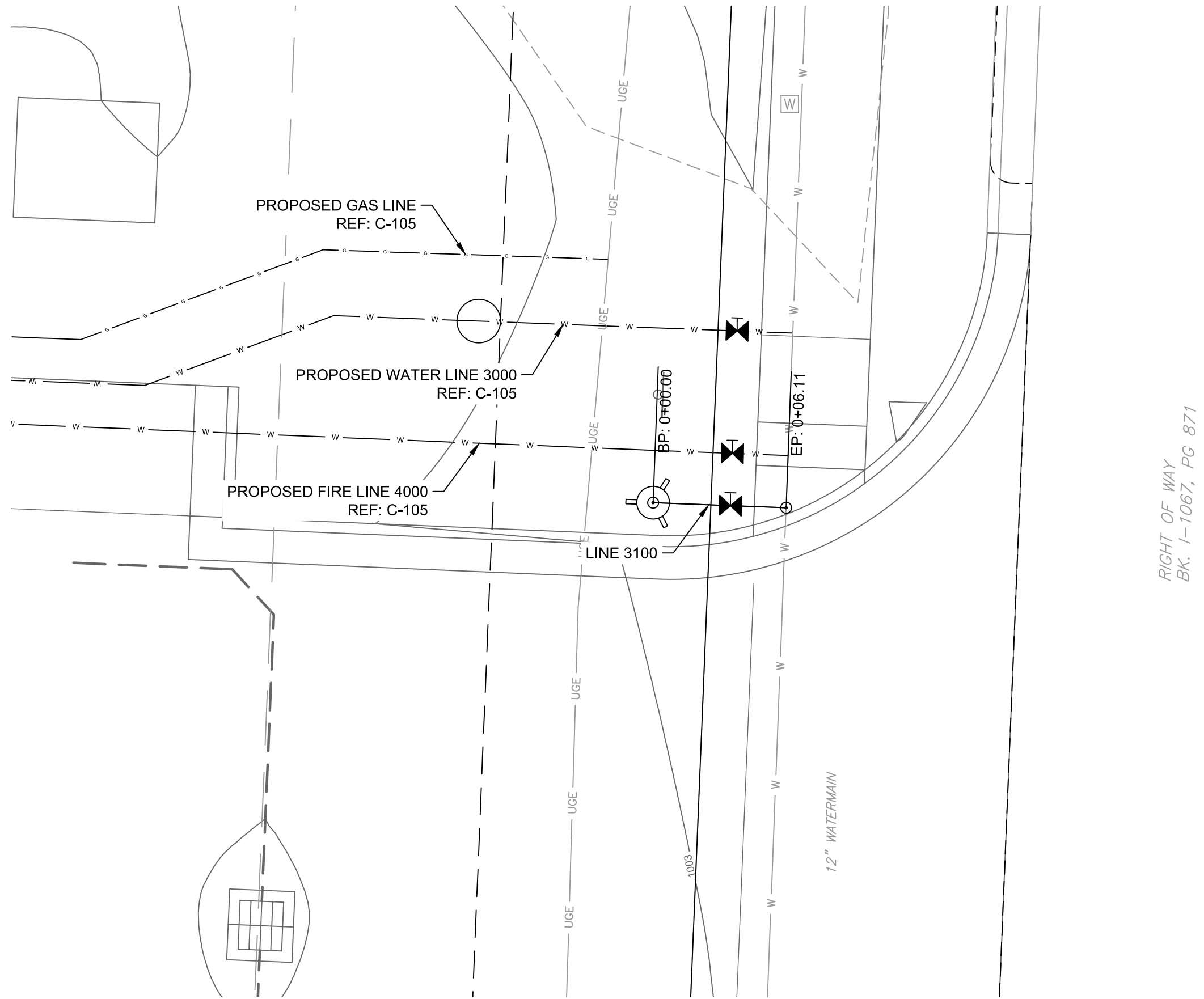
SCALE: HORIZONTAL 1"=40'



2

FIRE PROTECTION LINE 3100 PLAN VIEW ENLARGEMENT

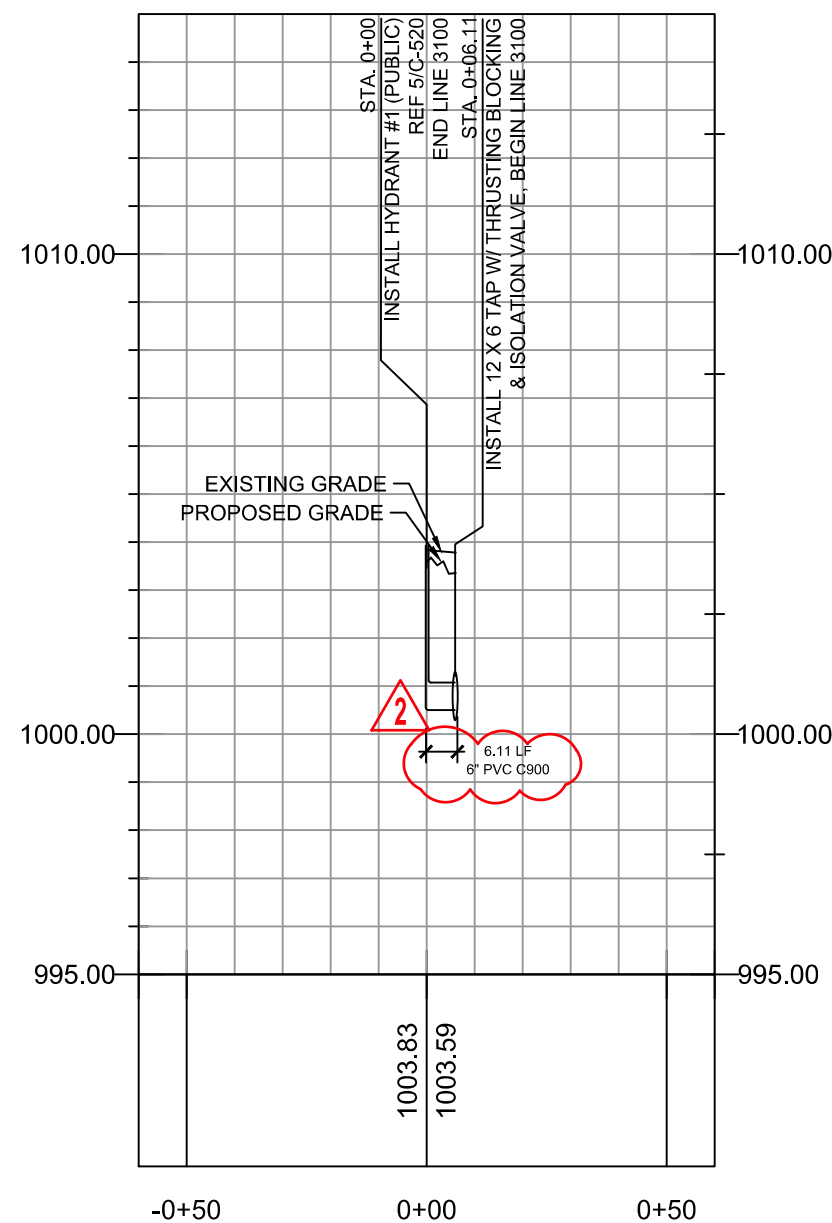
SCALE: HORIZONTAL 1"=5'



3

FIRE PROTECTION LINE 3100 PROFILE

SCALE: HORIZONTAL 1"=40' SCALE: VERTICAL 1"=4'



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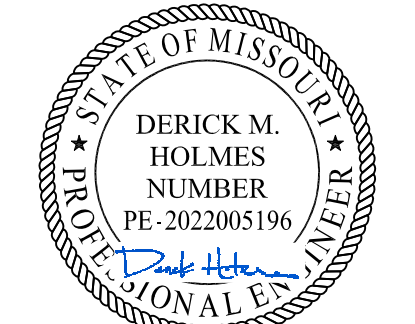
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FIRE STATION #5  
CITY OF LEE'S SUMMIT

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PROJECT NO: 18225R21001

DATE: 10.26.2022

DRAWN BY: JAC

CHKD BY: DMH

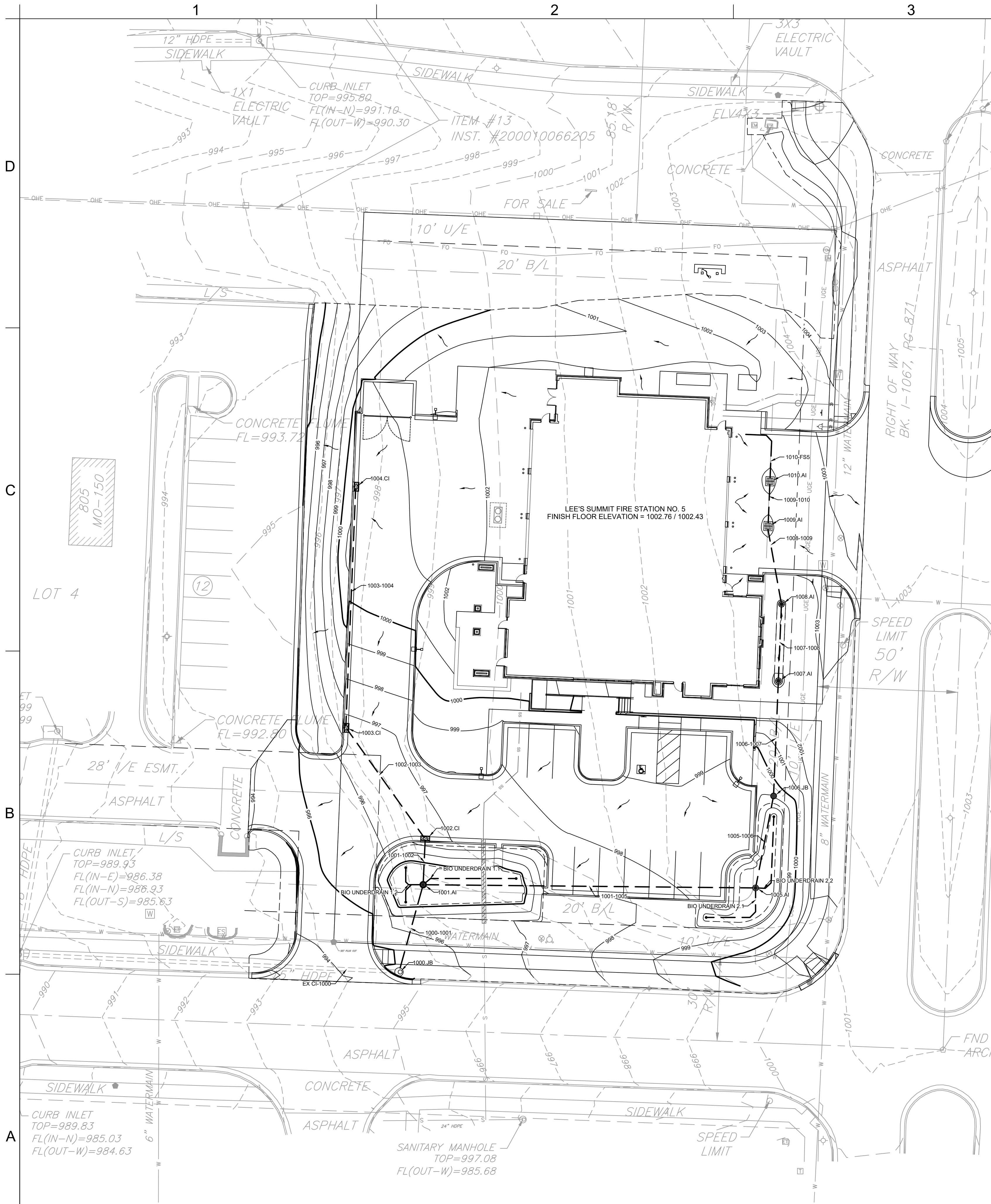
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PUBLIC WATER  
PLAN & PROFILES

C-220

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GENERAL STORMWATER NOTES:

- CONSTRUCTION OF STORMWATER IMPROVEMENTS SHALL BE AS PER CITY OF LEE'S SUMMIT, MO STANDARD SPECIFICATIONS AND STANDARD SPECIAL PROVISIONS.
- THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION AND FOR MAKING HIS OWN VERIFICATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
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- CONTRACTOR TO PROVIDE DETAILED AS-BUILT DRAWINGS TO OWNER, ENGINEER, AND CITY OF LEE'S SUMMIT, MO UPON COMPLETION OF ALL UTILITIES.

LEGEND

1289.00

SPOT ELEVATION

1289.00  
1288.45

TOP OF CURB ELEVATION  
FLOWLINE ELEVATION

1289.00 TW  
1279.00 BW

TOP OF RETAINING WALL  
BOTTOM OF RETAINING WALL

430

PROPOSED MAJOR CONTOUR

429

PROPOSED MINOR CONTOUR

430

EXISTING CONTOUR

FLOWLINE ARROW

PROPOSED STORM SEWER

PROPOSED CURB INLET

PROPOSED AREA INLET

BIORETENTION BASIN / SWALE  
EDGE

STORMWATER STRUCTURE TABLE					
STRUCTURE NAME	GRATE / RIM ELEVATION	PIPES IN	PIPES OUT	CL NORTHING & EASTING	NOTES
1000.JB	995.23	1000-1001, 12" INV IN = 990.90	EX CI-1000, 15" INV OUT = 990.60	N: 977860.16 E: 2818399.70	EXISTING MANHOLE, SEE NOTE 1
1001.AI	995.50	1001-1005, 12" INV IN = 991.71 1001-1002, 12" INV IN = 991.71 BIO UNDERDRAIN 1.1, 6" INV IN = 992.00 BIO UNDERDRAIN 1.2, 6" INV IN = 992.00	1000-1001, 12" INV OUT = 991.21	N: 977891.22 E: 2818408.30	30" AREA INLET W/ DOME GRATE, SEE NOTE 2 REF: C-401; 1 / C-530, 5 / C-531 & 1-2 / C-532
1002.CI	996.63	1002-1003, 12" INV IN = 992.06	1001-1002, 12" INV OUT = 991.86	N: 977907.48 E: 2818409.02	2'X3' CURB INLET REF: 1 / C-530 & 1-2 / C-531
1003.CI	996.60	1003-1004, 12" INV IN = 992.73	1002-1003, 12" INV OUT = 992.53	N: 977947.03 E: 2818380.76	2'X3' CURB INLET REF: 1 / C-530 & 1-2 / C-531
1004.CI	1000.18		1003-1004, 12" INV OUT = 996.00	N: 978032.84 E: 2818384.29	2'X3' CURB INLET REF: 1 / C-530 & 1-2 / C-531
1005.AI	997.86	1005-1006, 12" INV IN = 993.66 BIO UNDERDRAIN 2.1, 6" INV IN = 994.03 BIO UNDERDRAIN 2.2, 6" INV IN = 994.03	1001-1005, 12" INV OUT = 993.16	N: 977890.08 E: 2818526.60	24" AREA INLET W/ DOME GRATE, SEE NOTE 2 REF: C-401; 1 / C-530 & 2, 3, 5 / C-531
1006.JB	999.40	1006-1007, 12" INV IN = 994.21	1005-1006, 12" INV OUT = 994.01	N: 977922.79 E: 2818532.99	24" DRAIN BASIN W/ SOLID COVER REF: 1 / C-530 & 2, 4, & 5 / C-531
1007.AI	1001.95	1007-1008, 12" INV IN = 995.19	1006-1007, 12" INV OUT = 994.99	N: 977963.78 E: 2818534.70	24" AREA INLET W/ DOME GRATE REF: 1 / C-530 & 2, 3, & 5 / C-531
1008.AI	1002.09	1008-1009, 12" INV IN = 995.90	1007-1008, 12" INV OUT = 995.70	N: 977991.06 E: 2818535.81	24" AREA INLET W/ DOME GRATE REF: 1 / C-530 & 2, 3, & 5 / C-531
1009.AI	1001.95	1009-1010, 12" INV IN = 996.62	1008-1009, 12" INV OUT = 996.42	N: 978018.84 E: 2818531.05	STANDARD DOUBLE GRATE INLET REF: 2 / C-530
1010.AI	1001.93	1010-FS5, 6" INV IN = 997.09	1009-1010, 12" INV OUT = 996.89	N: 978034.78 E: 2818531.72	STANDARD DOUBLE GRATE INLET REF: 2 / C-530
EX CI	989.93	EX CI-1000, 15" INV IN = 986.38		N: 977866.28 E: 2818263.15	EXISTING CURB INLET, SEE NOTE 3 REF: 3-4 / C-530

STORMWATER PIPE TABLE	
NAME	PIPE DESCRIPTION
BIO UNDERDRAIN 2.2	28.85 L.F. OF PERFORATED 6" PVC @ 0.5%
BIO UNDERDRAIN 2.1	25.92 L.F. OF PERFORATED 6" PVC @ 0.5%
BIO UNDERDRAIN 1.2	17.72 L.F. OF PERFORATED 6" PVC @ 0.5%
BIO UNDERDRAIN 1.1	32.74 L.F. OF PERFORATED 6" PVC @ 0.5%
EX CI-1000	133.81 LF OF 15" HDPE @ 3.16%
1000-1001	5 31.21 LF OF 12" HDPE @ 1.00%
1001-1002	5 14.52 LF OF 12" HDPE @ 1.00%
1001-1005	5 116.32 LF OF 12" HDPE @ 1.25%
1002-1003	47.13 LF OF 12" HDPE @ 1.00%
1003-1004	5 84.45 LF OF 12" HDPE @ 3.88%
1005-1006	5 31.33 LF OF 12" HDPE @ 1.12%
1006-1007	5 39.03 LF OF 12" HDPE @ 2.00%
1007-1008	5 25.31 LF OF 12" HDPE @ 2.00%
1008-1009	5 26.08 LF OF 12" HDPE @ 2.00%
1009-1010	5 13.70 LF OF 12" HDPE @ 2.00%
1010-FS5	23.28 LF OF 6" HDPE @ 1.13%

- NOTES
1.

CONTRACTOR TO REUSE EXISTING MANHOLE, IF POSSIBLE. SEE C-102. GROUT AND REPAIR EXISTING PIPE PENETRATIONS NO LONGER NECESSARY PER CITY OF LEE'S SUMMIT, MO STANDARDS. NOTIFY ENGINEER IF STRUCTURE IS UNABLE TO BE REUSED. EXISTING INVERT ELEVATION OUT ASSUMED BASED ON LINEAR INTERPOLATION. CONTRACTOR TO FIELD VERIFY AND CONTACT ENGINEER IF DISCREPANCY EXISTS.
2.

BIORETENTION BASIN OUTLET CONTROL STRUCTURE. SEE C-401.
3.

THIS STRUCTURE HAS ADDITIONAL EXISTING PIPES NOT SHOWN IN THIS STRUCTURE TABLE.

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**FIRE STATION #5**  
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801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

REVISIONS:

#	Description	Date
2	ASI 02	11.22.2022
5	ASI 05	02.08.2023

DERICK M. HOLMES  
NUMBER  
PE-2022005196  
02/08/2023

DERICK HOLMES - CIVIL ENGINEER  
MOR PE-2022005196

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DATE: 10.26.2022  
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CHKD BY: DMH

STORMWATER PLAN

C-230

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D

C

B

A

1

2

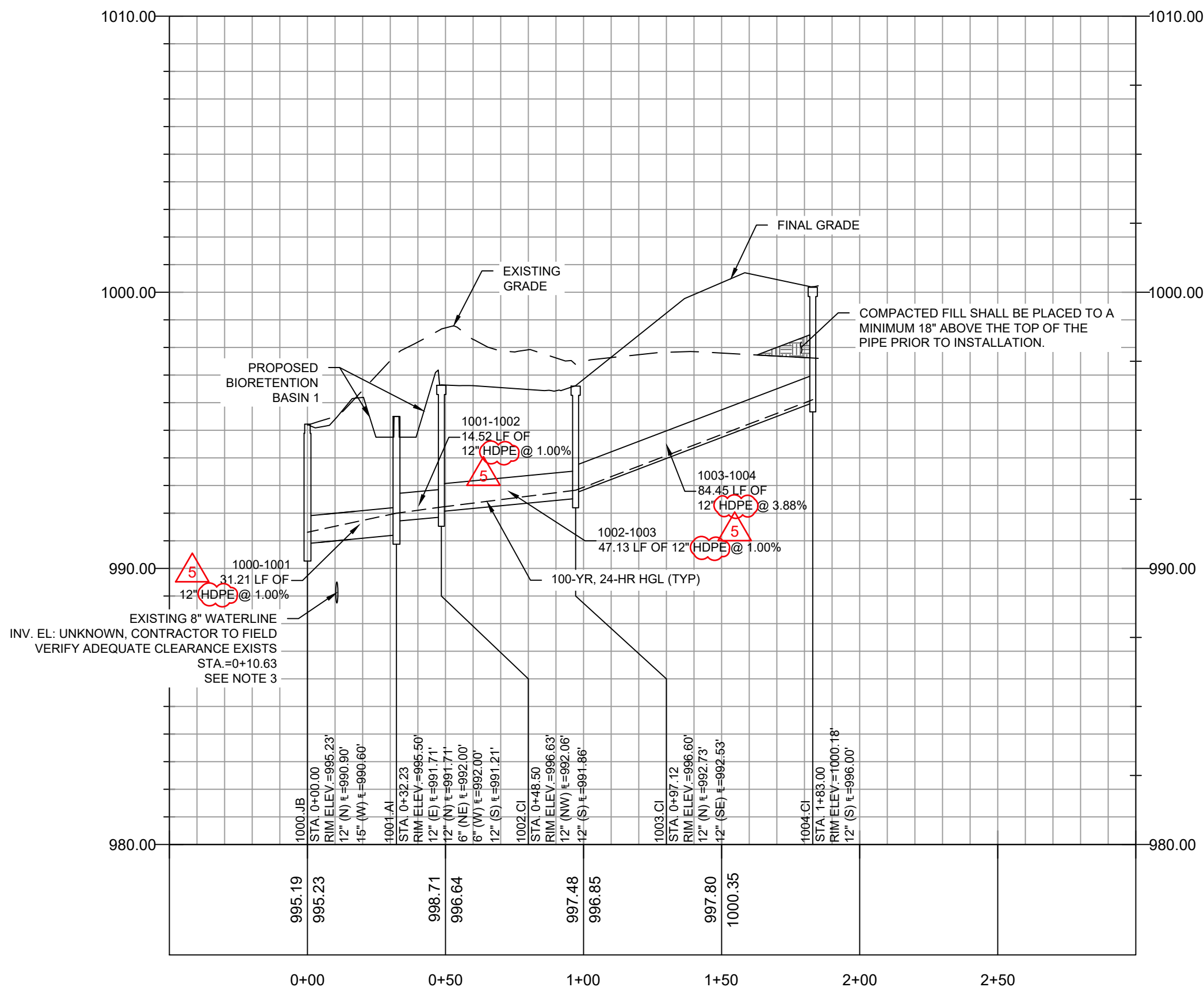
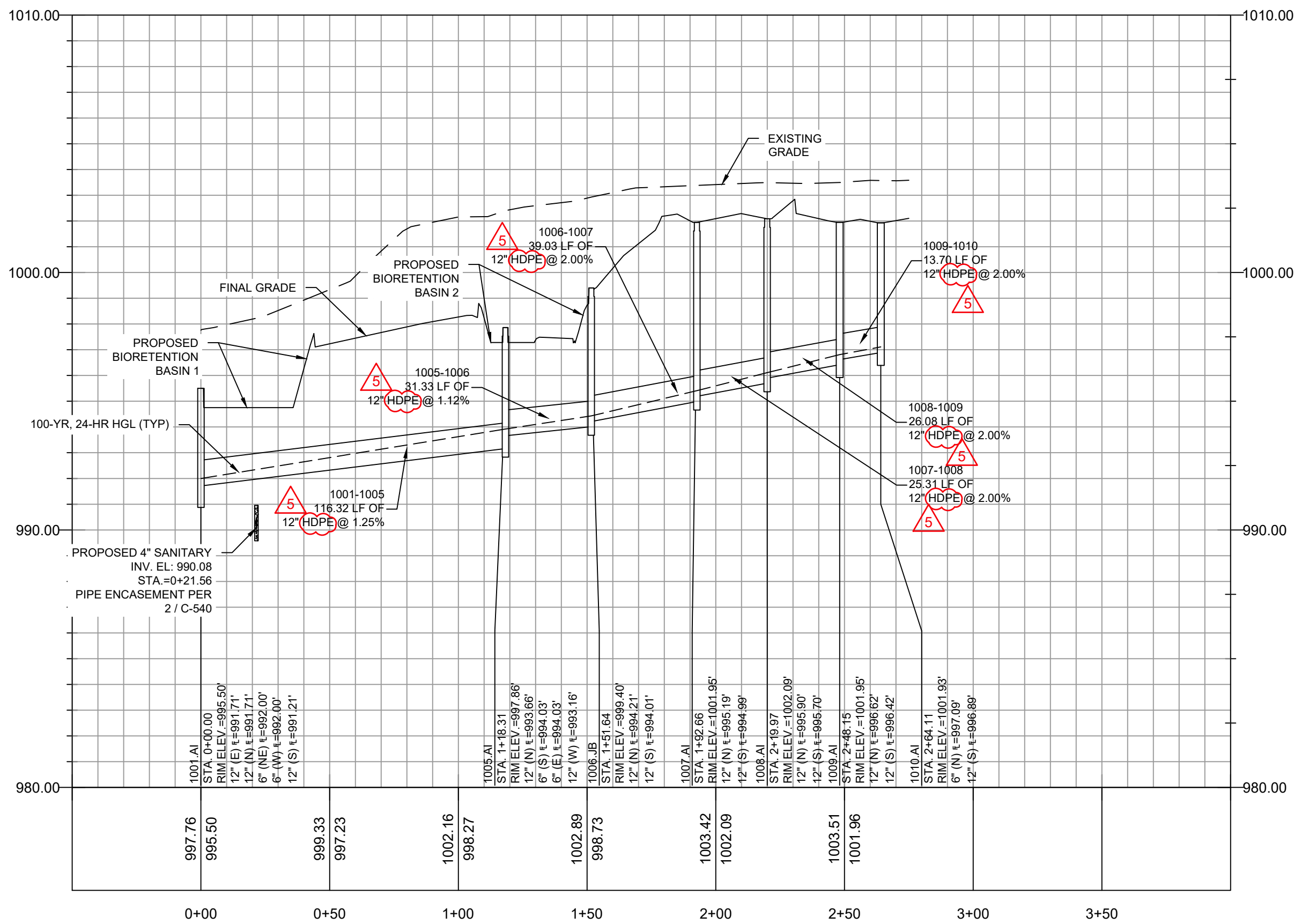
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4

5

## GENERAL NOTES:

- SEE DRAWING C-230 FOR GENERAL NOTES APPLICABLE TO THIS DRAWING.
- ALL STORMWATER STRUCTURES AND PIPES SHOWN ON THIS DRAWING ARE PRIVATE, UNLESS NOTED OTHERWISE.
- 18" MINIMUM CLEARANCE REQUIRED.

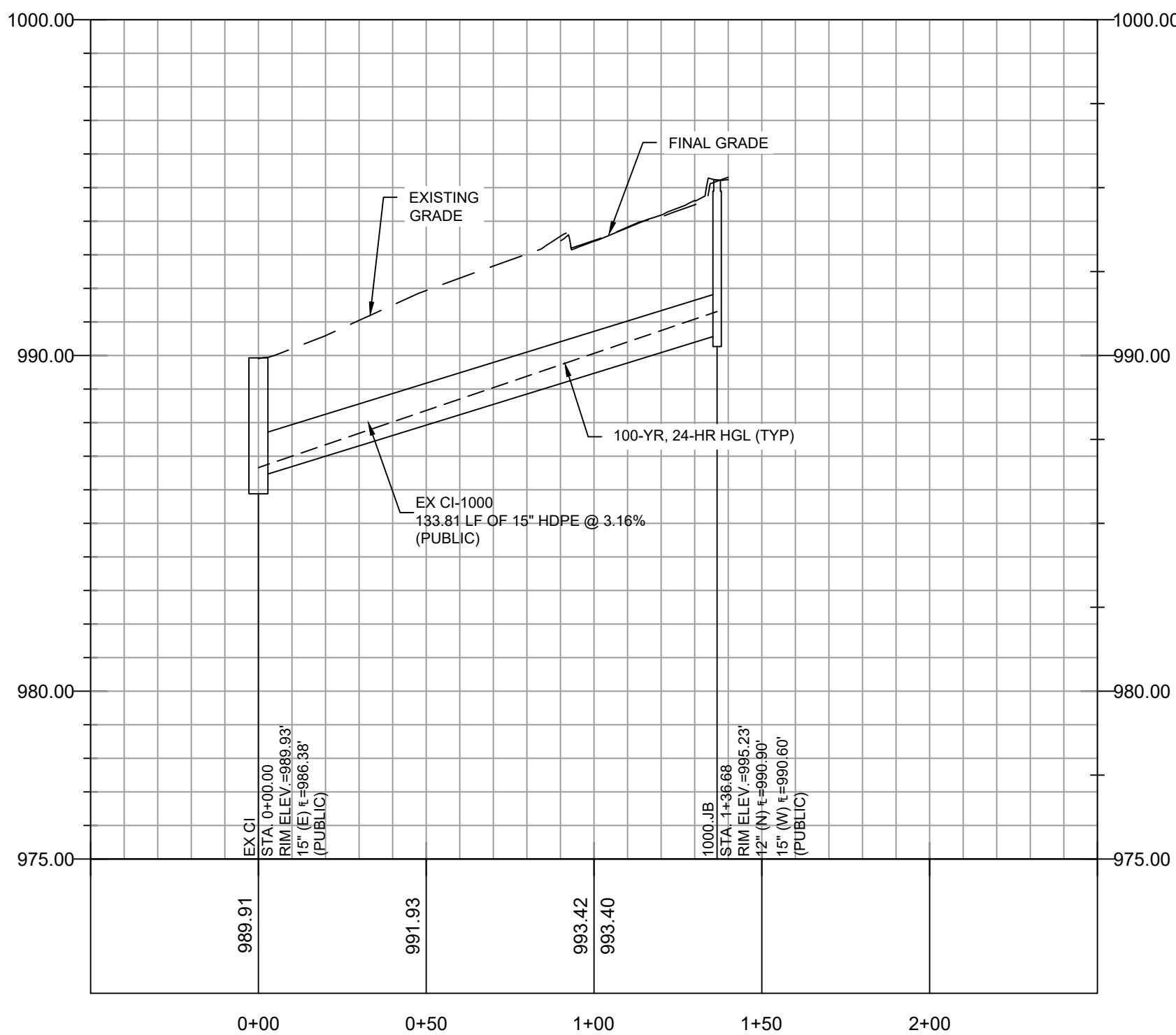


## 1001.AI - 1010.AI PROFILE

SCALE: HORIZONTAL 1"=40' SCALE: VERTICAL: 1"=4'

## 1000.JB - 1004.CI PROFILE

SCALE: HORIZONTAL 1"=40' SCALE: VERTICAL: 1"=4'



## EX CI - 1000.JB PROFILE

SCALE: HORIZONTAL 1"=40' SCALE: VERTICAL: 1"=4'

100-YR, 24-HR STORM EVENT																	
PIPE NAME	UPSTREAM NODE	DOWNSTREAM NODE	LENGTH (FT)	INLET INVERT ELEVATION (FT)	OUTLET INVERT ELEVATION (FT)	SLOPE (%)	PIPE DIAMETER (INCHES)	MANNING'S ROUGHNESS (N)	ENTRANCE LOSSES	EXIT/BEND LOSSES	PEAK FLOW (CFS)	TIME OF PEAK FLOW OCCURRENCE (DAYS HH:MM)	MAX FLOW VELOCITY (FT/SEC)	TRAVEL TIME (MIN)	DESIGN FLOW CAPACITY (CFS)	MAX FLOW / DESIGN FLOW RATIO	MAX FLOW DEPTH (FT)
1000-1001	1001.AI	1000.JB	31.21	991.21	990.90	1.00	12	0.012	0.50	0.80	1.36	0 12:01	4.47	0.12	3.85	0.35	0.41
1001-1002	1002.CI	1001.AI	14.52	991.86	991.71	1.00	12	0.012	0.50	1.00	0.28	0 12:00	3.02	0.08	4.18	0.07	0.18
1001-1005	1005.AI	1001.AI	116.32	993.16	991.71	1.25	12	0.012	0.50	1.00	0.77	0 12:01	4.18	0.46	4.31	0.18	0.29
1002-1003	1003.CI	1002.CI	47.13	992.53	992.06	1.00	12	0.012	0.50	0.60	0.21	0 12:00	2.69	0.29	3.94	0.05	0.16
1003-1004	1004.CI	1003.CI	84.45	996.00	992.73	3.88	12	0.012	0.50	0.60	0.17	0 12:05	3.91	0.36	7.60	0.02	0.11
1005-1006	1006.JB	1005.AI	31.33	994.01	993.66	1.12	12	0.012	0.50	0.80	0.59	0 12:00	3.70	0.14	4.08	0.14	0.26
1006-1007	1007.AI	1006.JB	39.03	994.99	994.21	2.00	12	0.012	0.50	0.55	0.59	0 12:00	4.58	0.14	5.49	0.11	0.22
1007-1008	1008.AI	1007.AI	25.31	995.70	995.19	2.00	12	0.012	0.50	0.50	0.57	0 12:00	4.54	0.09	5.53	0.10	0.22
1008-1009	1009.AI	1008.AI	26.08	996.42	995.90	2.00	12	0.012	0.50	0.55	0.54	0 11:20	4.50	0.10	5.55	0.10	0.21
1009-1010	1010.AI	1009.AI	13.70	996.89	996.62	2.00	12	0.012	0.50	0.50	0.47	0 11:20	4.42	0.05	5.71	0.08	0.19
EX CI - 1000.JB	1000.JB	EX CI	133.81	990.60	986.38	3.16	15	0.012	0.50	0.50	1.36	0 12:02	6.66	0.33	12.43	0.11	0.28

100-YR, 24-HR STORM EVENT	
STRUCTURE NAME	MAX HGL ELEVATION (FT)
1000.JB	991.31
1001.AI	992.00
1002.CI	992.22
1003.CI	992.83
1004.CI	996.11
1005.AI	993.92
1006.JB	994.43
1007.AI	995.41
1008.AI	996.11
1009.AI	996.81
1010.AI	997.11
EX CI	986.66



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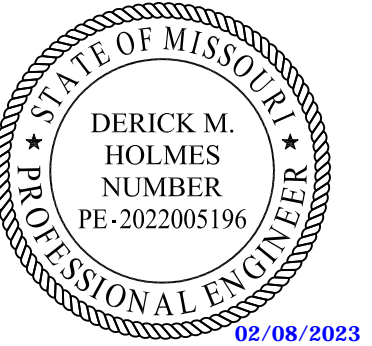
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**FIRE STATION #5**  
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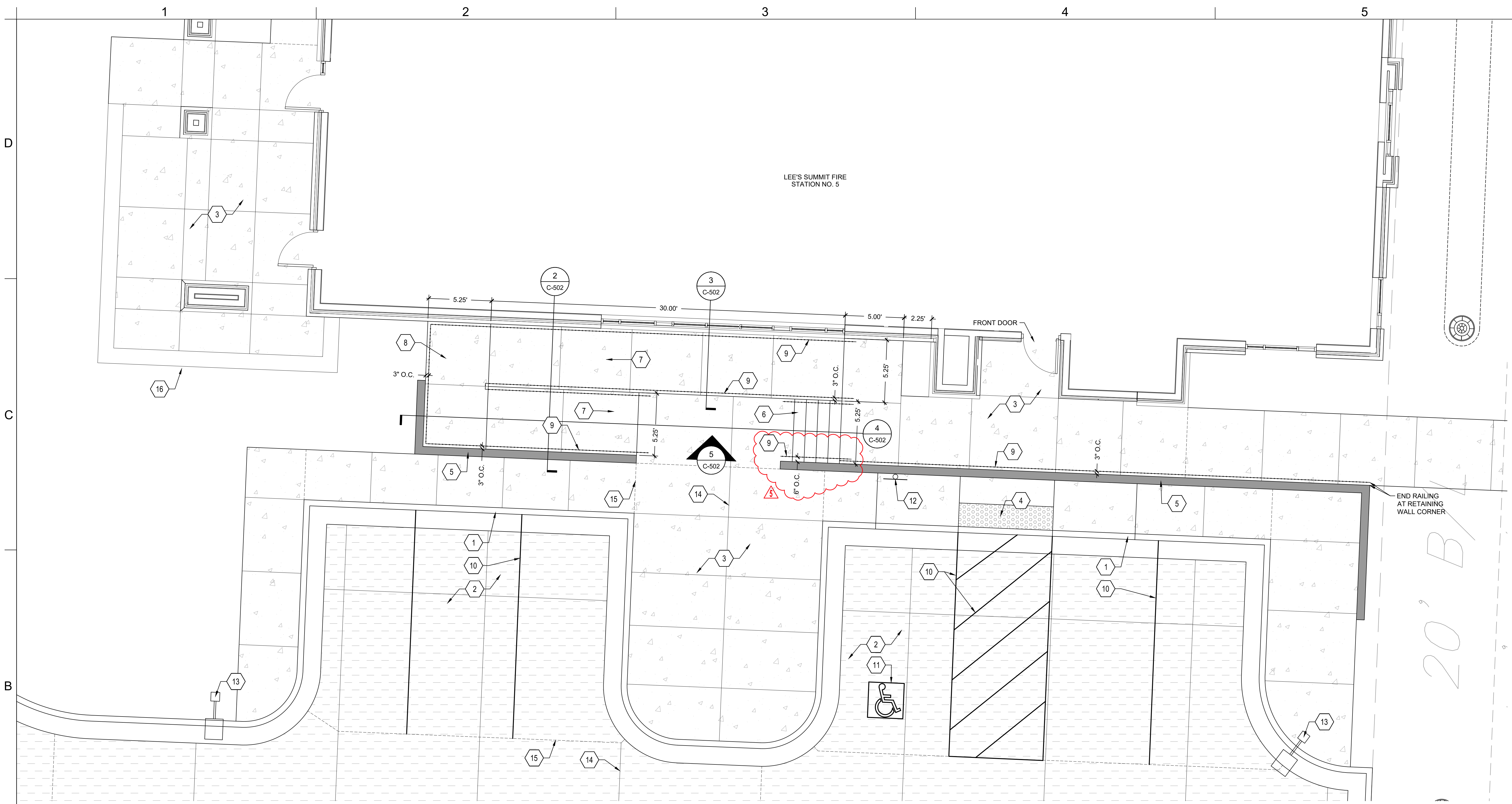
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**STORMWATER PROFILES**

**C-231**

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**1 MAIN ENTRANCE ENLARGEMENT PLAN**  
1/4" = 1'-0"

**KEYNOTES**

- |  |  |
|--|--|
| 1 TYP. CURB & GUTTER<br>LEE'S SUMMIT STANDARD DETAIL<br>REF: 3/C-503 | 9 GALVANIZED RAILING<br>REF: 2, 3, 4, 5/C502 |
| 2 TYP. CONCRETE PAVING<br>REF: 1/C-500                               | 10 PAVEMENT STRIPING<br>REF: 3/C-500         |
| 3 CONCRETE SIDEWALK PAVING<br>REF: 1/C-504                           | 11 ADA PAVEMENT MARKING<br>REF: 4/C-500      |
| 4 ADA SIDEWALK RAMP<br>REF: 3/C-504                                  | 12 ADA PARKING SIGN<br>REF: 5/C-500          |
| 5 RETAINING WALL, SMOOTH FINISH<br>REF: C-402, C-502 & STRUCTURAL    | 13 TYP. AREA LIGHTING<br>REF: 2/C-503        |
| 6 CONCRETE STEPS<br>REF: 4/C-502                                     | 14 CONSTRUCTION JOINT<br>REF: 2/C-503        |
| 7 ADA RAMP   | 15 ISOLATION JOINT<br>REF: 2/C-503           |
| 8 ADA RAMP LANDING   | 16 SCREEN WALL<br>REF: ARCHITECTURE          |

**LEGEND**

- |  |                      |
|--|----------------------|
|  | TYP. CURB & GUTTER   |
|  | TYP. CONCRETE PAVING |
|  | ASPHALT PATCH        |
|  | CONCRETE SIDEWALK    |
|  | MISSOURI RIVER ROCK  |
|  | RETAINING WALL       |

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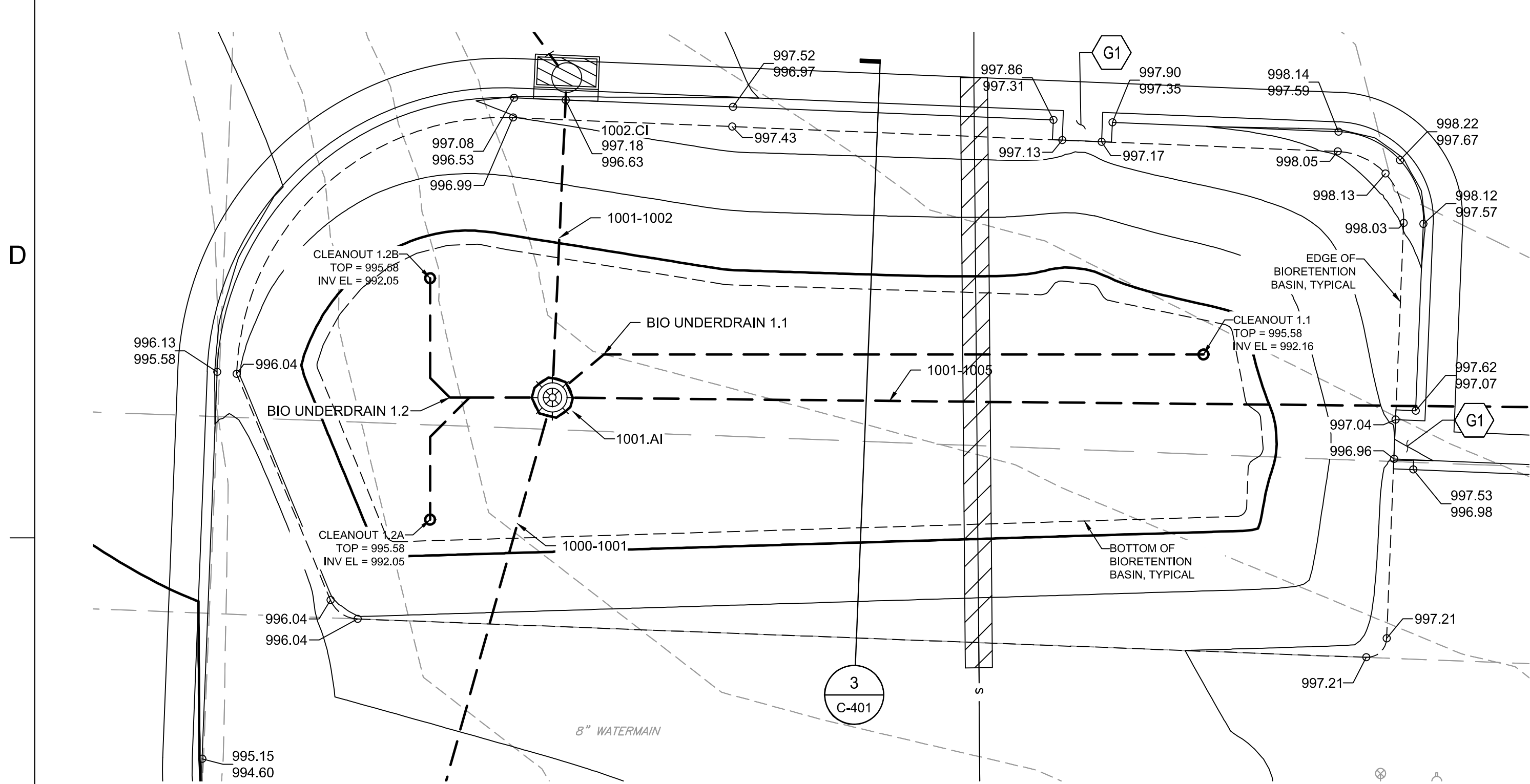
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**SITE ENLARGEMENTS**

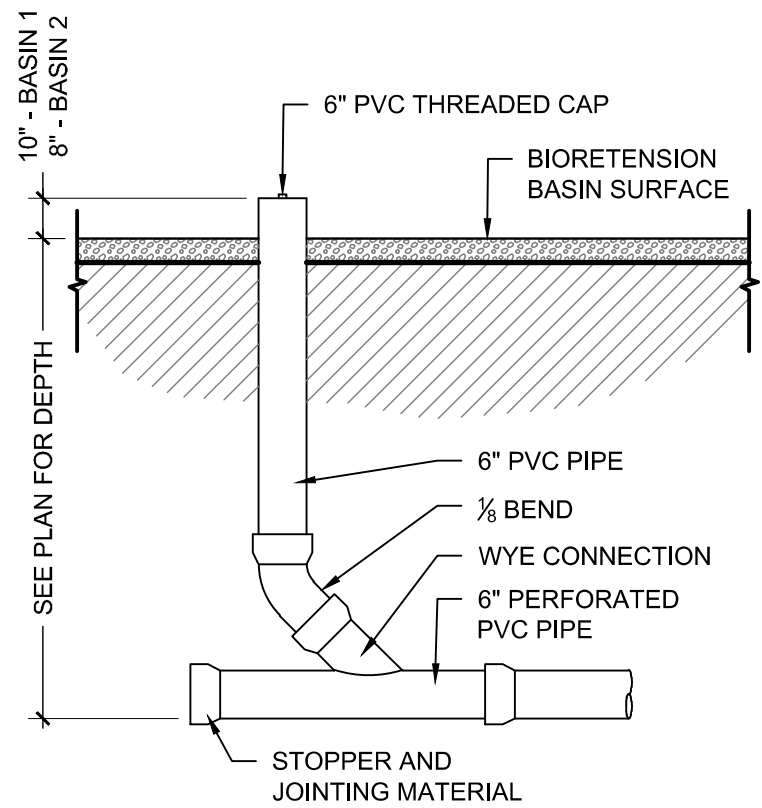
**C-400**





KEYNOTES

G1 TYP. CURB CUT  
REF: 11 / C-500

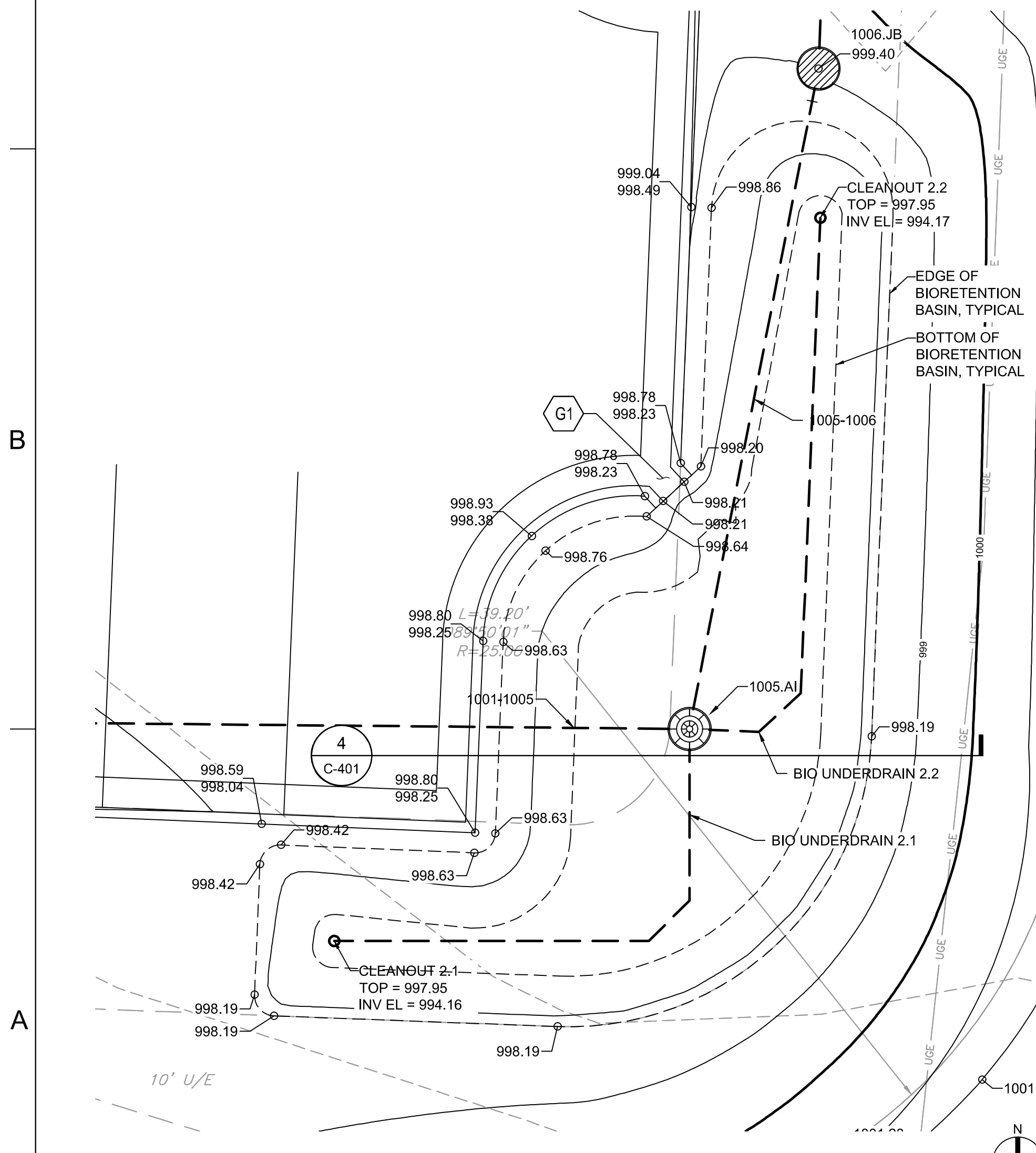


5 CLEANOUT DETAIL

1/2" = 1'-0"

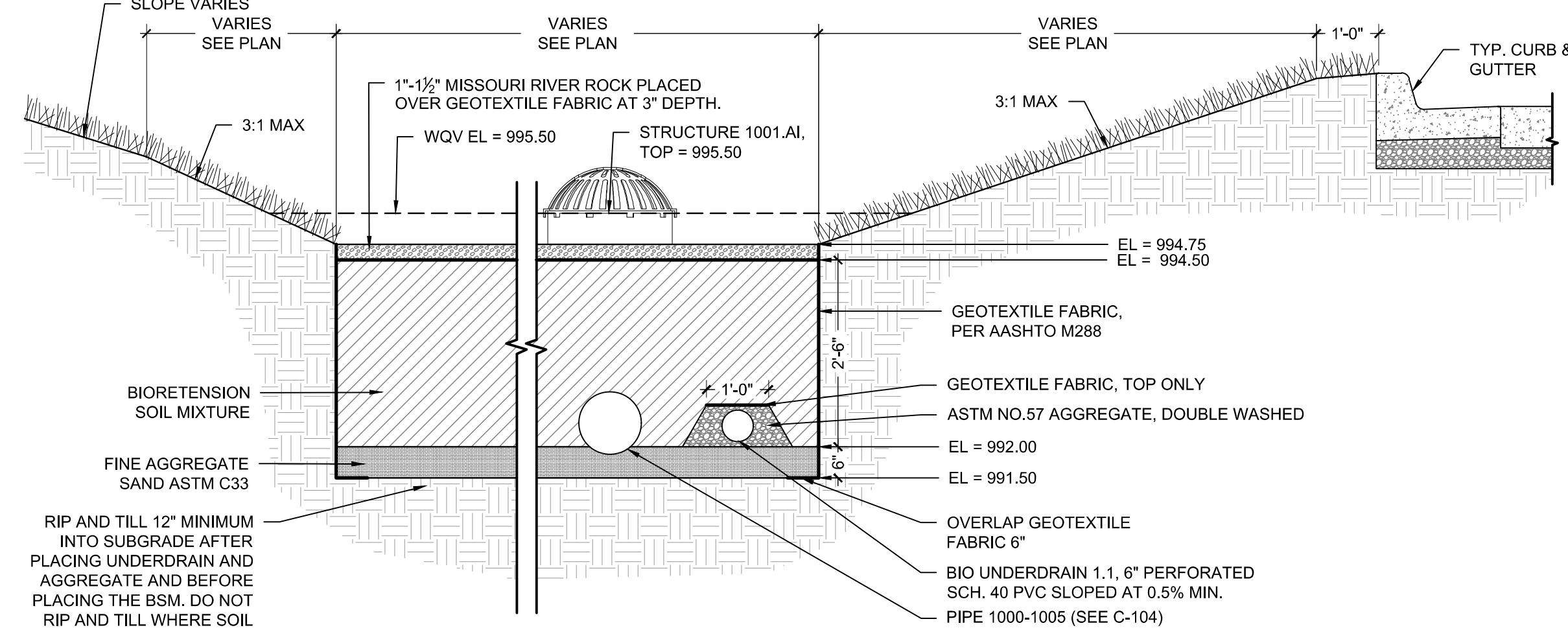
1 BIORETENTION BASIN 1 ENLARGEMENT PLAN

1" = 5'-0"



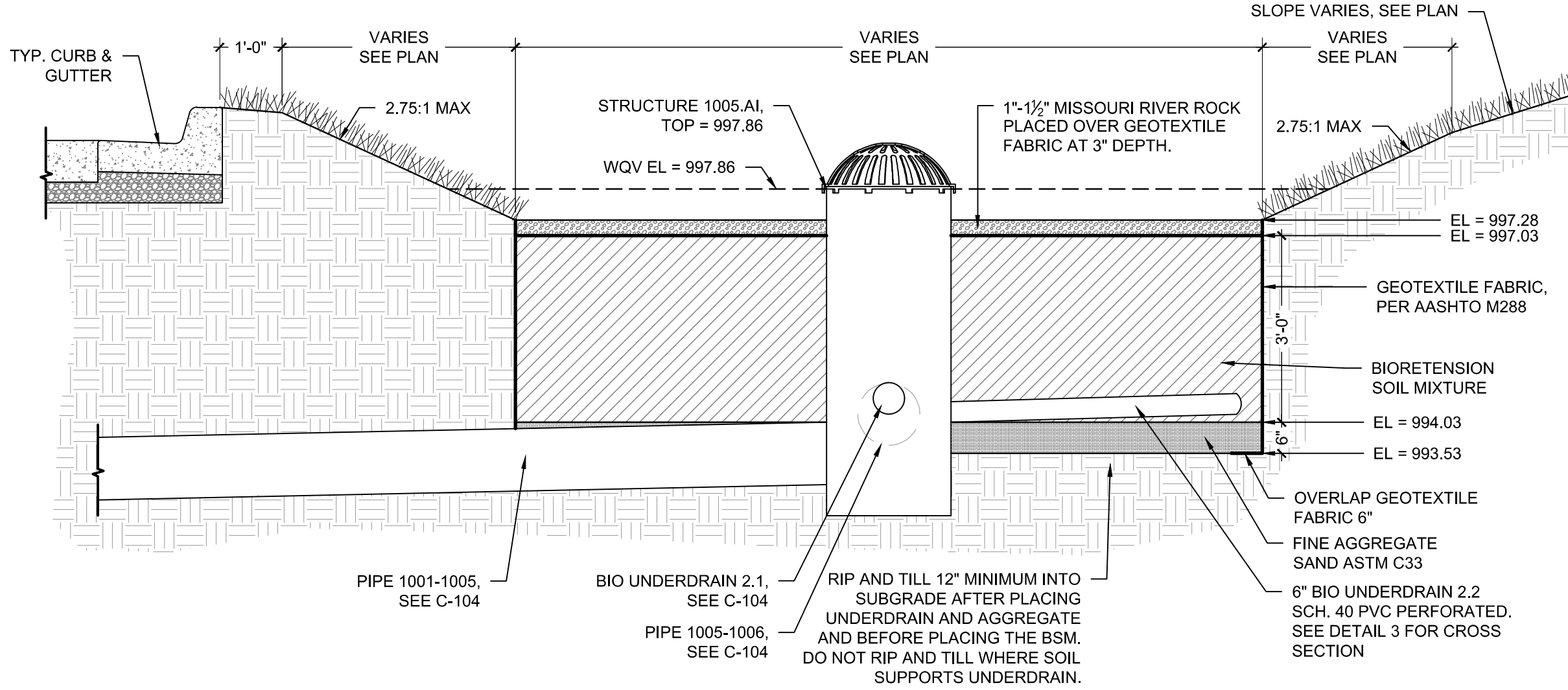
2 BIORETENTION BASIN 2 ENLARGEMENT PLAN

1" = 5'-0"



3 BIORETENTION BASIN 1 CROSS SECTION

1/2" = 1'-0"



4 BIORETENTION BASIN 2 CROSS SECTION

1/2" = 1'-0"

GENERAL NOTES:

- BIORETENTION FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREAS ARE PERMANENTLY STABILIZED AGAINST EROSION AND SEDIMENTATION. ANY DISCHARGE OF SEDIMENT THAT AFFECTS THE PERFORMANCE OF THE CELL WILL REQUIRE RECONSTRUCTION OF THE CELL TO RESTORE ITS DEFINED PERFORMANCE.
- NO HEAVY EQUIPMENT SHALL OPERATE WITHIN THE BIORETENTION FACILITY DURING UNDERDRAIN PLACEMENT, BACKFILLING, OR PLANTING OF THE FACILITY.
- IF THE BIORETENTION FACILITY IS TO BE USED AS A SEDIMENT BASIN, THE BIORETENTION FACILITY SHALL BE EXCAVATED TO THE DIMENSIONS, SIDE SLOPES, AND 1 FOOT ABOVE THE BOTTOM OF THE BIORETENSION SOIL MIXTURE. ANY SEDIMENT FROM CONSTRUCTION OPERATIONS DEPOSITED IN THE BIORETENTION FACILITY SHALL BE COMPLETELY REMOVED FROM THE FACILITY AFTER ALL VEGETATION HAS BEEN ESTABLISHED. THE EXCAVATION LIMITS SHALL THEN BE FINAL GRADED TO THE DIMENSIONS, SIDE SLOPES, AND FINAL ELEVATIONS. LOW GROUND-CONTACT PRESSURE EQUIPMENT IS TO BE USED WHEN CONSTRUCTING THE BIORETENTION FACILITIES TO MINIMIZE DISTURBANCE TO ESTABLISH AREAS AROUND PERIMETER OF CELL. NO HEAVY EQUIPMENT SHALL BE USED WITHIN THE PERIMETER OF THE BIORETENTION FACILITY BEFORE, DURING, OR AFTER THE PLACEMENT OF THE BSM.
- THE BIORETENTION SOIL MIXTURE (BSM) SHALL BE PLACED IN LAYERS NOT TO EXCEED 12 INCHES. THE BSM SHALL BE SATURATED OVER THE ENTIRE AREA OF THE FACILITY AFTER EACH LIFT OF BSM IS PLACED UNTIL WATER FLOWS FROM THE UNDERDRAIN TO LIGHTLY CONSOLIDATE THE BSM MIXTURE. WATER FOR SATURATION SHALL BE APPLIED BY SPRAYING OR SPRINKLING TO AVOID SEPARATION OF THE BSM COMPONENTS. FINAL GRADING OF THE BSM SHALL BE PERFORMED AFTER A 24-HOUR SETTLING PERIOD. UPON FINAL GRADING THE SURFACE OF THE BSM SHALL BE ROTO-TILLED TO A DEPTH OF 6".
- SEE DRAWING L-100 AND L-101 FOR PLANTING SCHEDULE. PESTICIDES, HERBICIDES, AND FERTILIZER SHALL NOT BE APPLIED DURING PLANTING UNDER ANY CIRCUMSTANCES.

BIORETENTION SOIL MIXTURE (BSM) SPECIFICATIONS:

MATERIALS

- A. BIORETENTION SOIL MIXTURE: THE BIORETENTION SOIL MIXTURE (BSM) IS A MIXTURE OF PLANTING SOIL, COMPOST, AND SAND CONSISTING OF THE FOLLOWING:

ITEM	COMPOSITION BY VOLUME	REFERENCE
PLANTING SOIL	30%	SEE BELOW
ORGANIC COMPOST	20%	SEE BELOW
SAND	50%	ASTM C33 FINE AGGREGATE

- B. PLANTING SOIL: THE USDA TEXTURAL CLASSIFICATION OF THE PLANTING SOIL FOR THE BSM SHALL BE LOAMY SAND OR SANDY LOAM. THE PLANTING SOIL SHALL BE TESTED AND MEET THE FOLLOWING CRITERIA:

ITEM	PERCENT BY WEIGHT	TEST METHOD
SAND (2.0 - 0.050 MM)	50-85%	AASHTO T88
SILT (0.050 - 0.002 MM)	0-50%	AASHTO T88
CLAY (LESS THAN 0.002 MM)	2-5%	AASHTO T88
ORGANIC MATTER	3-10%	AASHTO T194

THE TEXTURAL ANALYSIS OF THE PLANTING SOIL SHALL BE AS FOLLOWS:

ASTM E11 SIEVE SIZE	MINIMUM PERCENT PASSING BY WEIGHT
2 IN.	100%
NO. 4	90
NO. 10	80

AT LEAST 45 DAYS PRIOR TO THE START OF CONSTRUCTION OF THE BIORETENTION FACILITIES, THE CONTRACTOR SHALL SUBMIT THE SOURCE AND TESTING RESULTS OF THE PLANTING SOIL FOR THE BSM TO THE ENGINEER FOR APPROVAL.

C. ORGANIC COMPOST:

COMPOST IS DEEMED ACCEPTABLE IF IT MEETS 2 OF THE FOLLOWING REQUIREMENTS:

- C/N RATIO  $\leq$  25;
- OXYGEN UPTAKE RATE  $\leq$  150 mg/l O<sub>2</sub>/kg VOLATILE SOLIDS PER HOUR
- COMPOST MUST NOT CONTAIN MORE THAN 1 PERCENT FOREIGN MATTER. FOREIGN MATTER IS DEFINED AS: "ANY MATTER OVER A 2 MM DIMENSION THAT RESULTS FROM HUMAN INTERVENTION AND HAVING ORGANIC OR INORGANIC CONSTITUENTS SUCH AS METAL, GLASS AND SYNTHETIC POLYMERS (E.G., PLASTIC OR RUBBER) THAT MAY BE PRESENT IN THE COMPOST BUT EXCLUDING MINERAL SOILS, WOODY MATERIAL AND ROCKS."
- FOREIGN MATTER LESS THAN 1 PERCENT BY WEIGHT MUST NOT EXCEED 12.5 MM IN ANY DIMENSION.

- D. THE BIORETENTION SOIL MIXTURE (BSM) SHALL BE A UNIFORM MIX, FREE OF PLANT RESIDUE, STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES EXCLUDING MULCH. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE BIORETENTION AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS.

1. THE BIORETENTION SOIL MIXTURE SHALL BE TESTED AND MEET THE FOLLOWING CRITERIA:

ITEM	CRITERIA	TEST METHOD
CORRECTED pH	5.5 - 7.5	ASTM D4972
MAGNESIUM	MINIMUM 32 PPM	*
PHOSPHORUS (PHOSPHATE - P <sub>2</sub> O <sub>5</sub> )	NOT TO EXCEED 60 PPM PLANT AVAILABLE PHOSPHORUS	*
POTASSIUM (K <sub>2</sub> O)	MINIMUM 78 PPM	*
SOLUBLE SALTS	NOT TO EXCEED 500 PPM	*

\*USE AUTHORIZED SOIL TEST PROCEDURES

2. SHOULD THE pH FALL OUTSIDE OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED WITH LIME (TO RAISE) OR AMMONIUM SULFATE (TO LOWER). THE LIME OR AMMONIUM SULFATE MUST BE MIXED UNIFORMLY INTO THE BSM PRIOR TO USE IN BIORETENTION FACILITIES.

3. SHOULD THE BSM NOT MEET THE MINIMUM REQUIREMENT FOR MAGNESIUM, IT MAY BE MODIFIED WITH MAGNESIUM SULFATE. LIKEWISE, SHOULD THE BSM NOT MEET THE MINIMUM REQUIREMENT FOR POTASSIUM, IT MAY BE MODIFIED WITH POTASH. MAGNESIUM SULFATE AND POTASH MUST BE MIXED UNIFORMLY INTO THE BSM PRIOR TO USE IN BIORETENTION FACILITIES.

4. PLANTING SOIL AND/OR BSM THAT FAILS TO MEET THE MINIMUM REQUIREMENTS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. MIXING OF THE CORRECTIVE ADDITIVES TO THE BSM IS INCIDENTAL AND SHALL BE AT THE CONTRACTOR'S EXPENSE.

5. MIXING OF THE BSM TO A HOMOGENOUS CONSISTENCY SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER. UPON APPROVAL OF ALL REQUIREMENTS AND TESTING ABOVE, THE BSM SHALL BE STOCKPILED, AND NO MATERIAL SHALL BE ADDED TO THE BSM IN THE STOCKPILE OR DURING TRANSPORT TO THE BIORETENTION FACILITY.

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As Noted on Plans Review  
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Lee's Summit, Missouri  
12/30/2022



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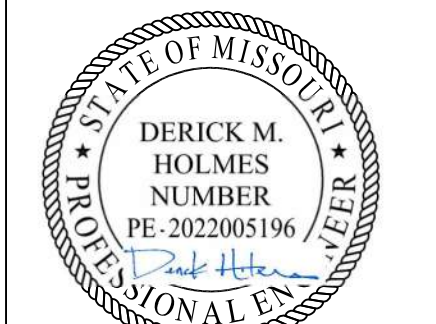
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FIRE STATION #5  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

REVISIONS:

#	Description	Date
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DATE: 10.26.2022  
DRAWN BY: KDW  
CHKD BY: DMH

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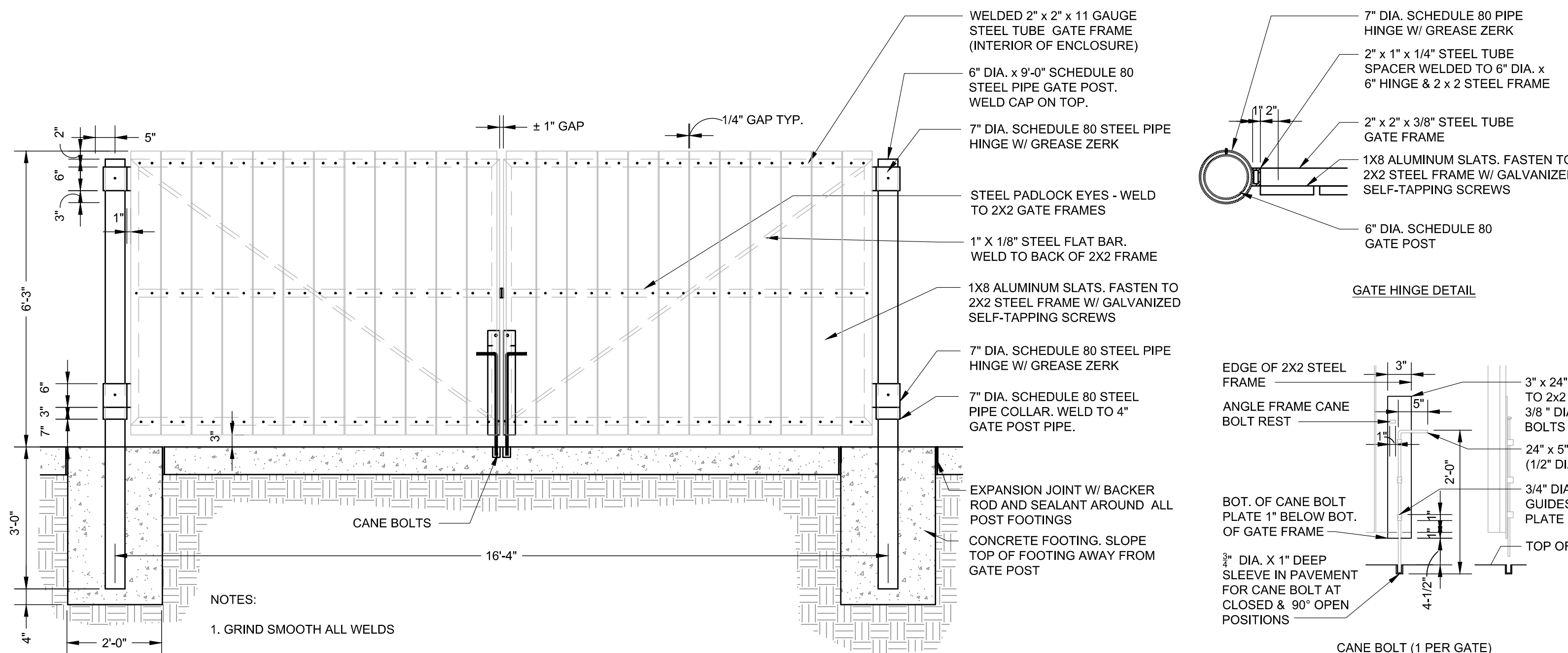
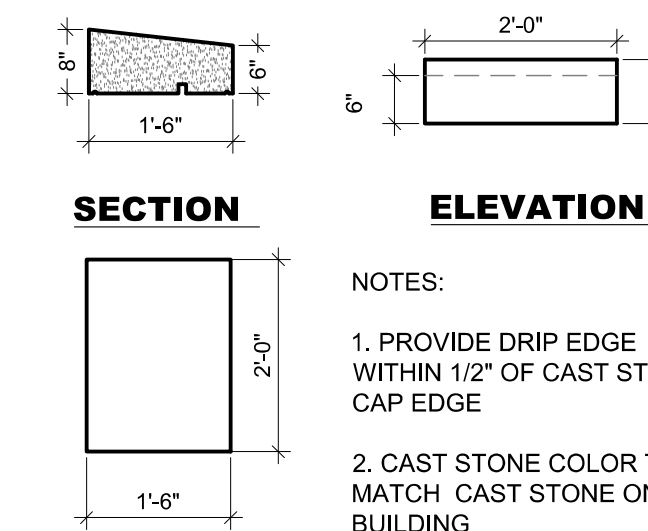
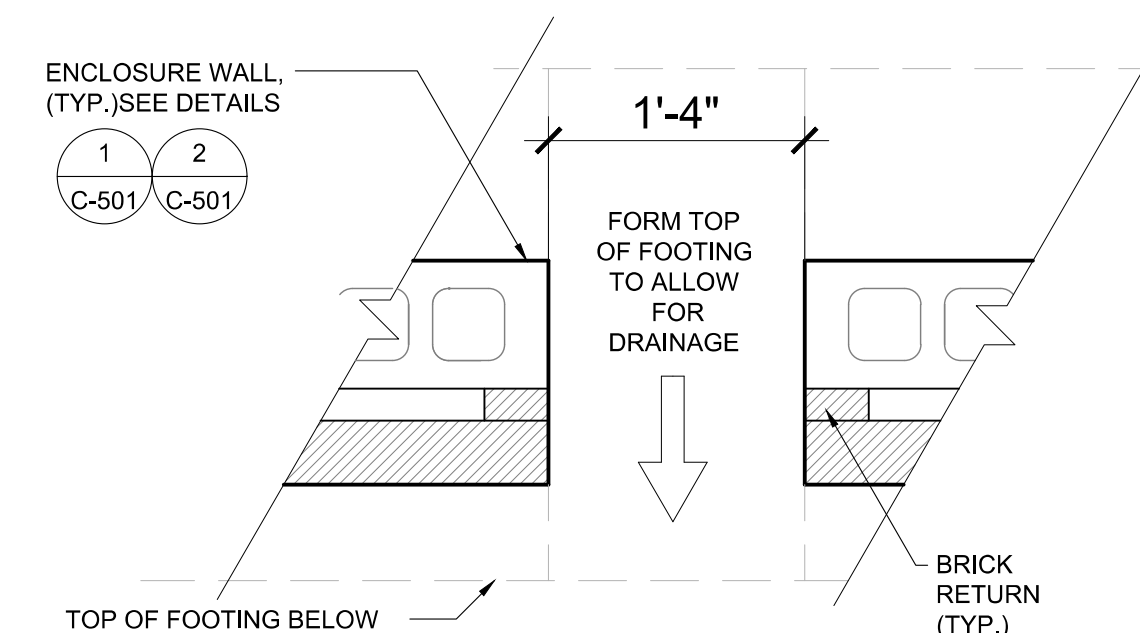
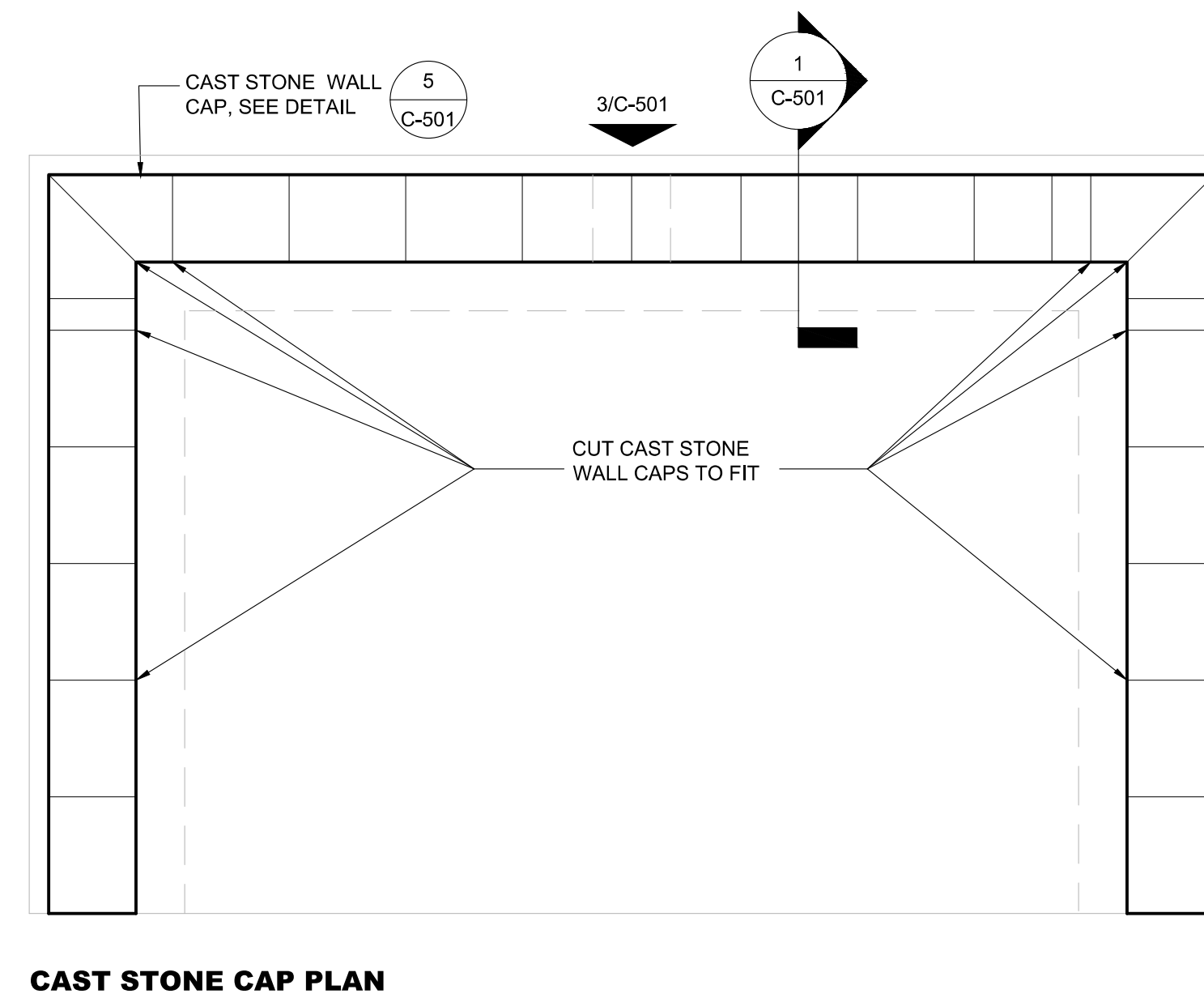
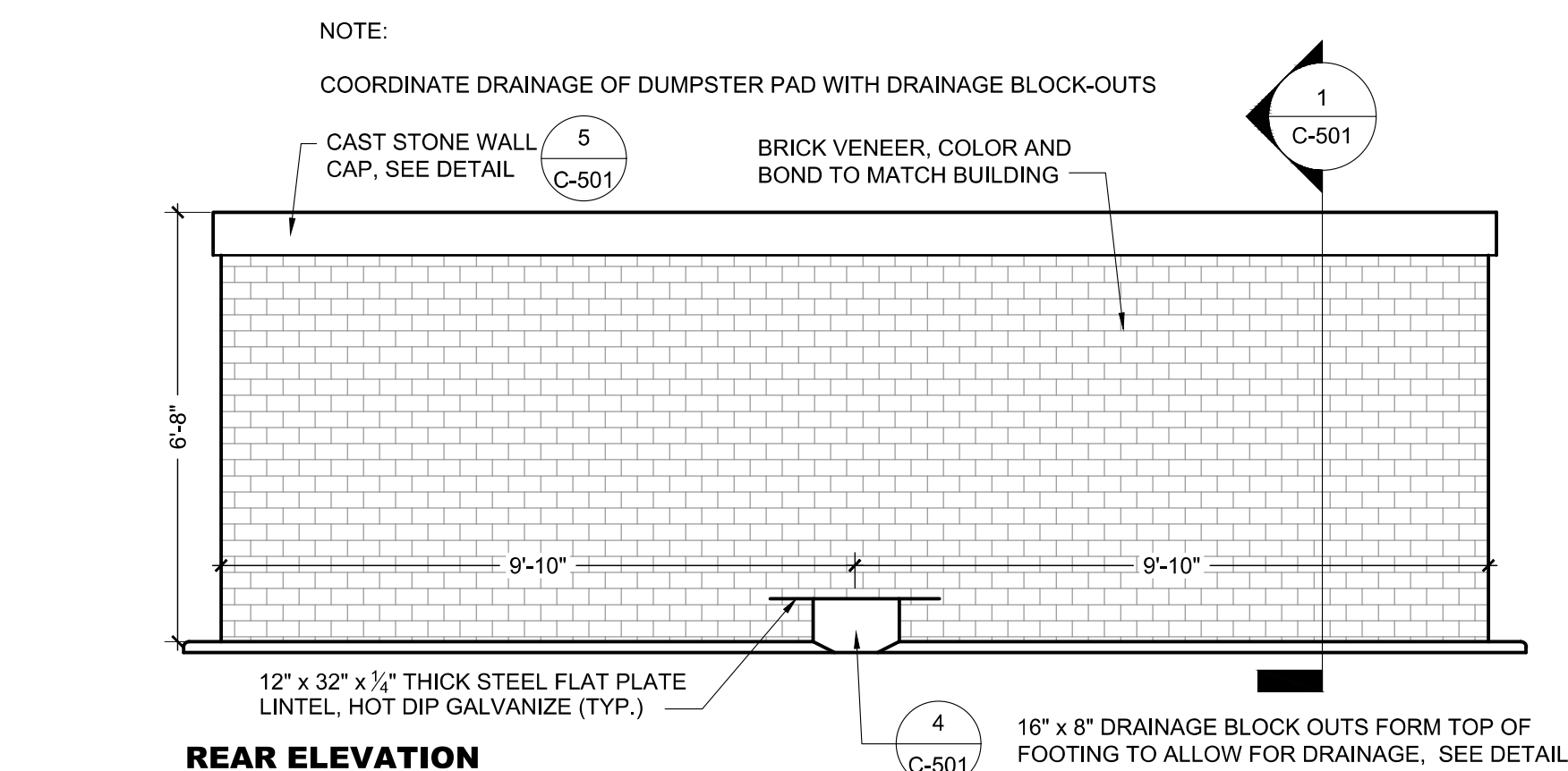
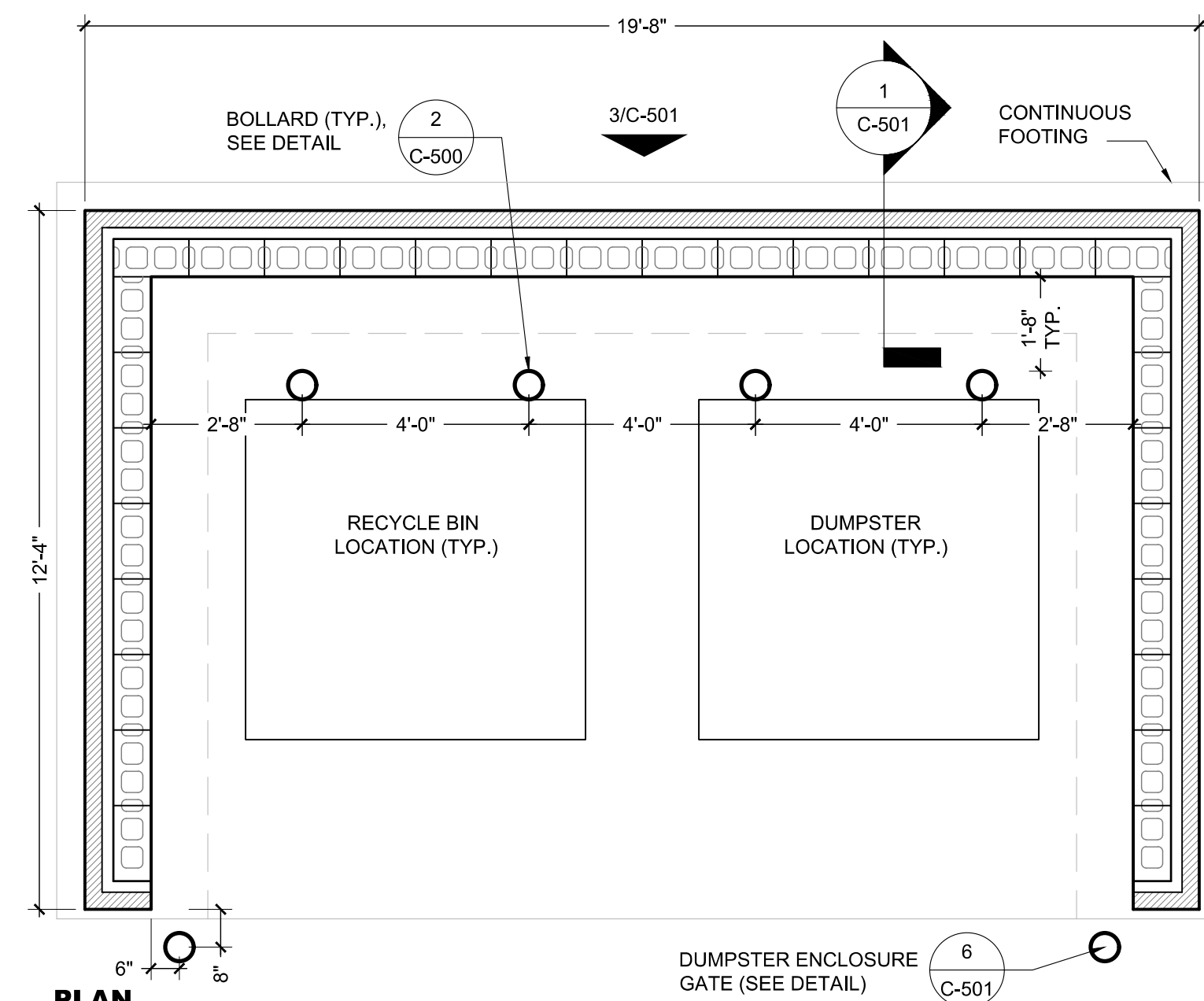
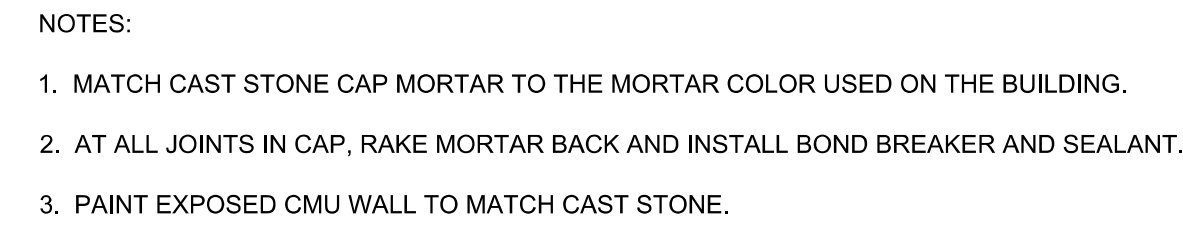








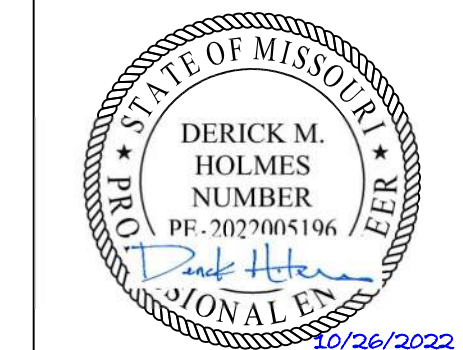




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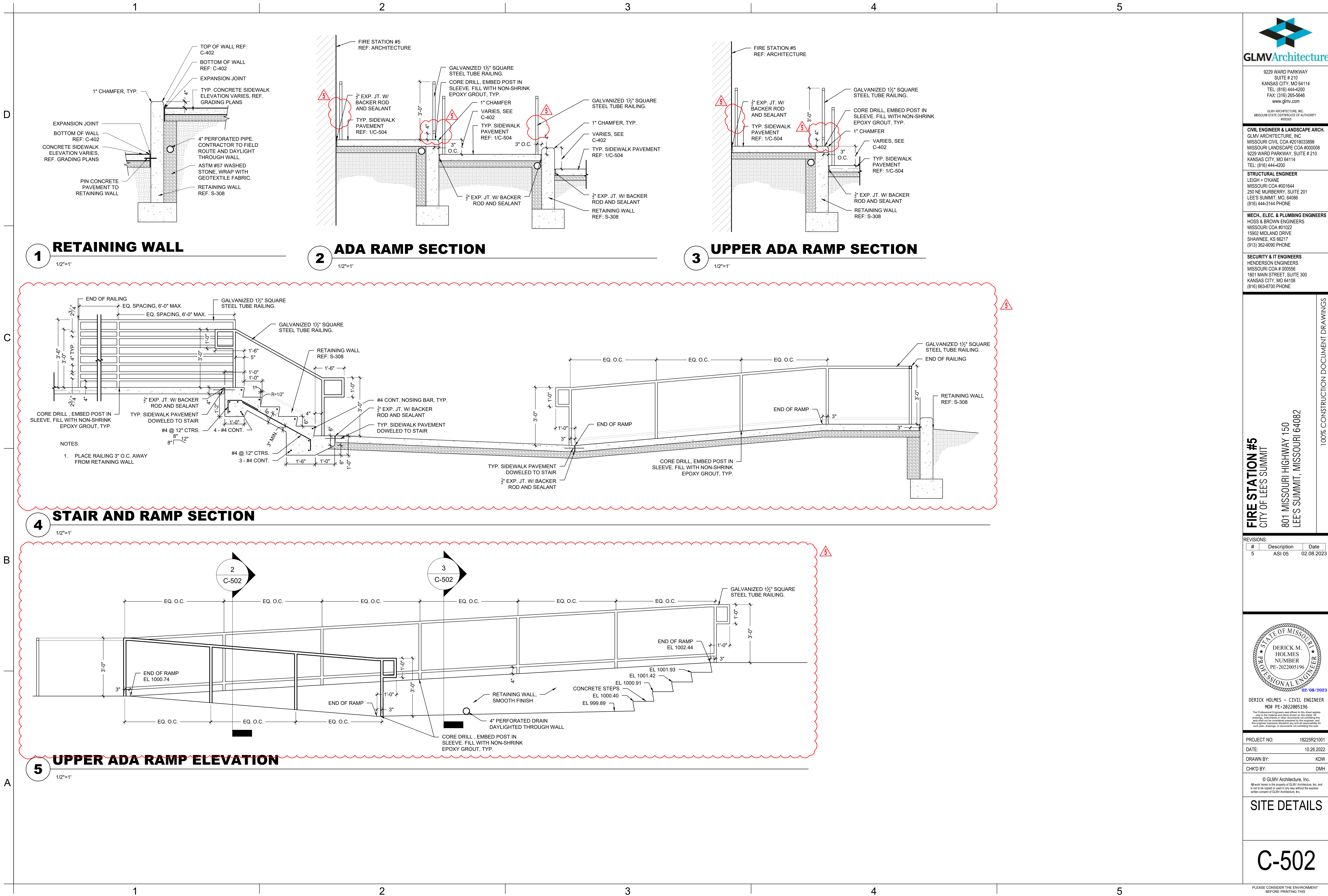
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DATE:	10.26.2022
DRAWN BY:	KDW
CHK'D BY:	DMH

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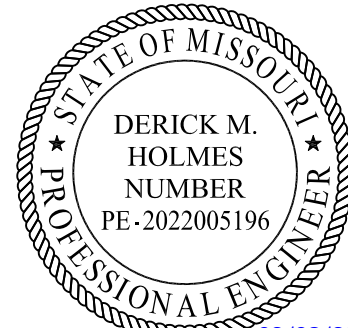
## SITE DETAILS

C-501





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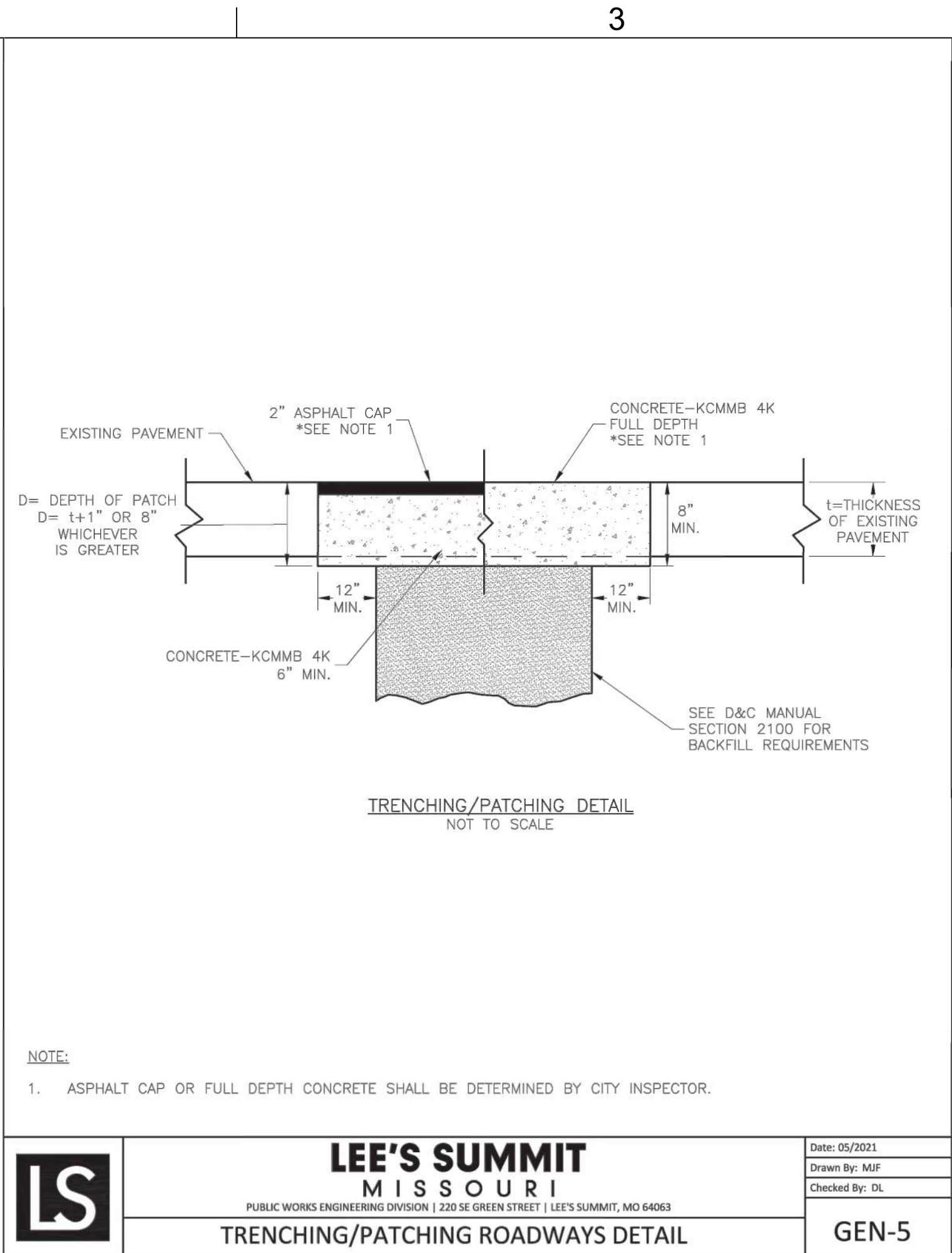
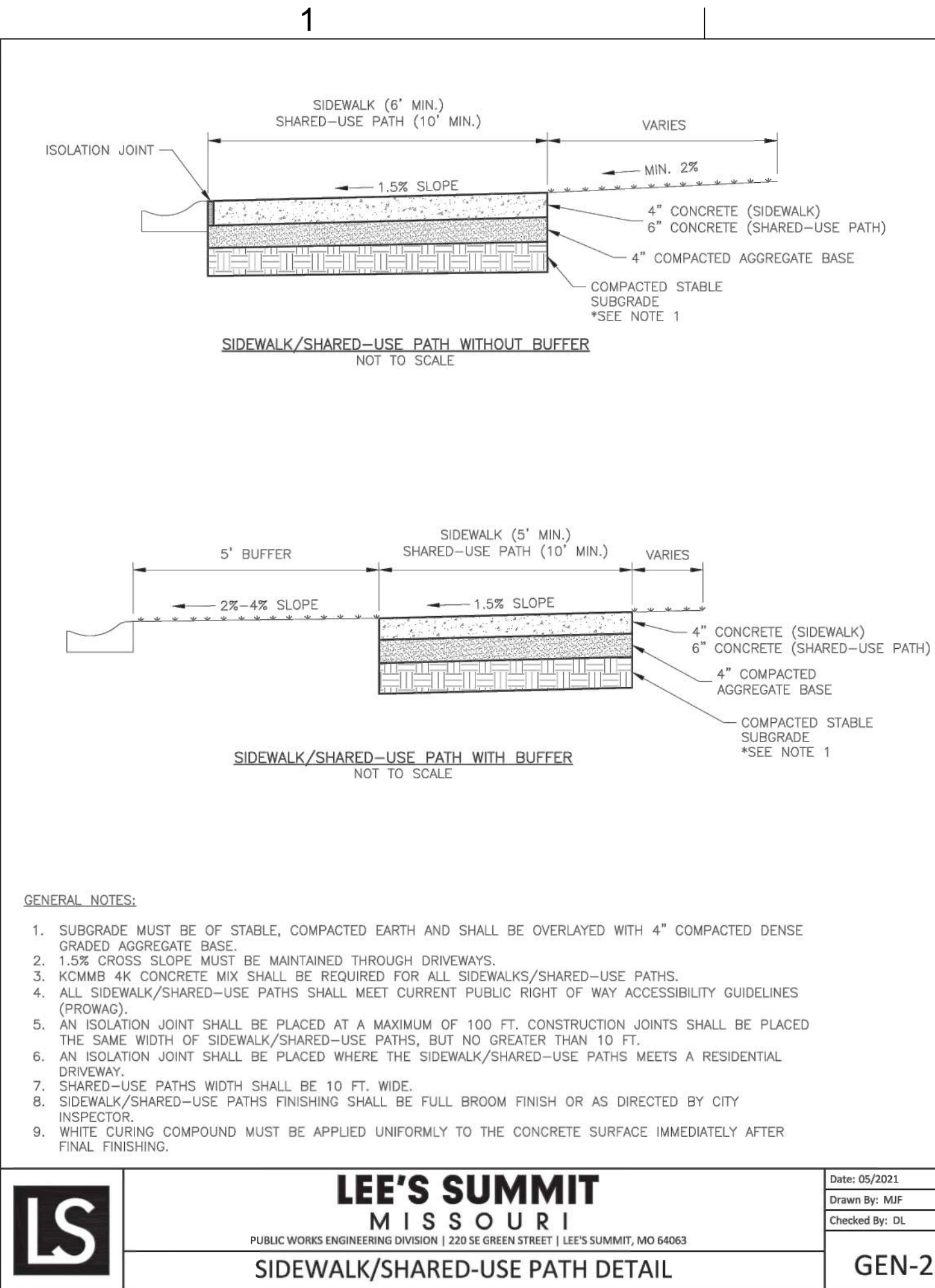






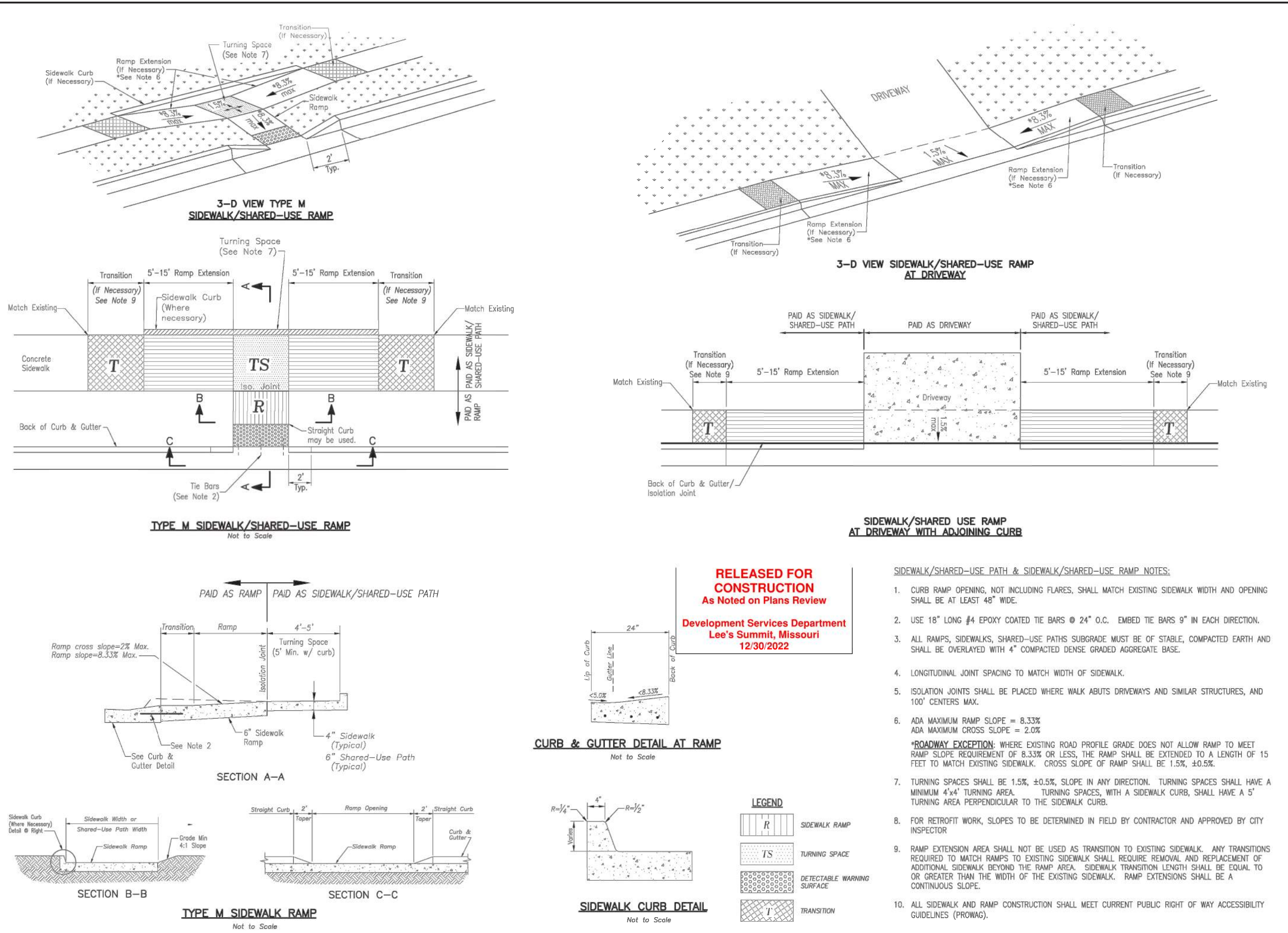
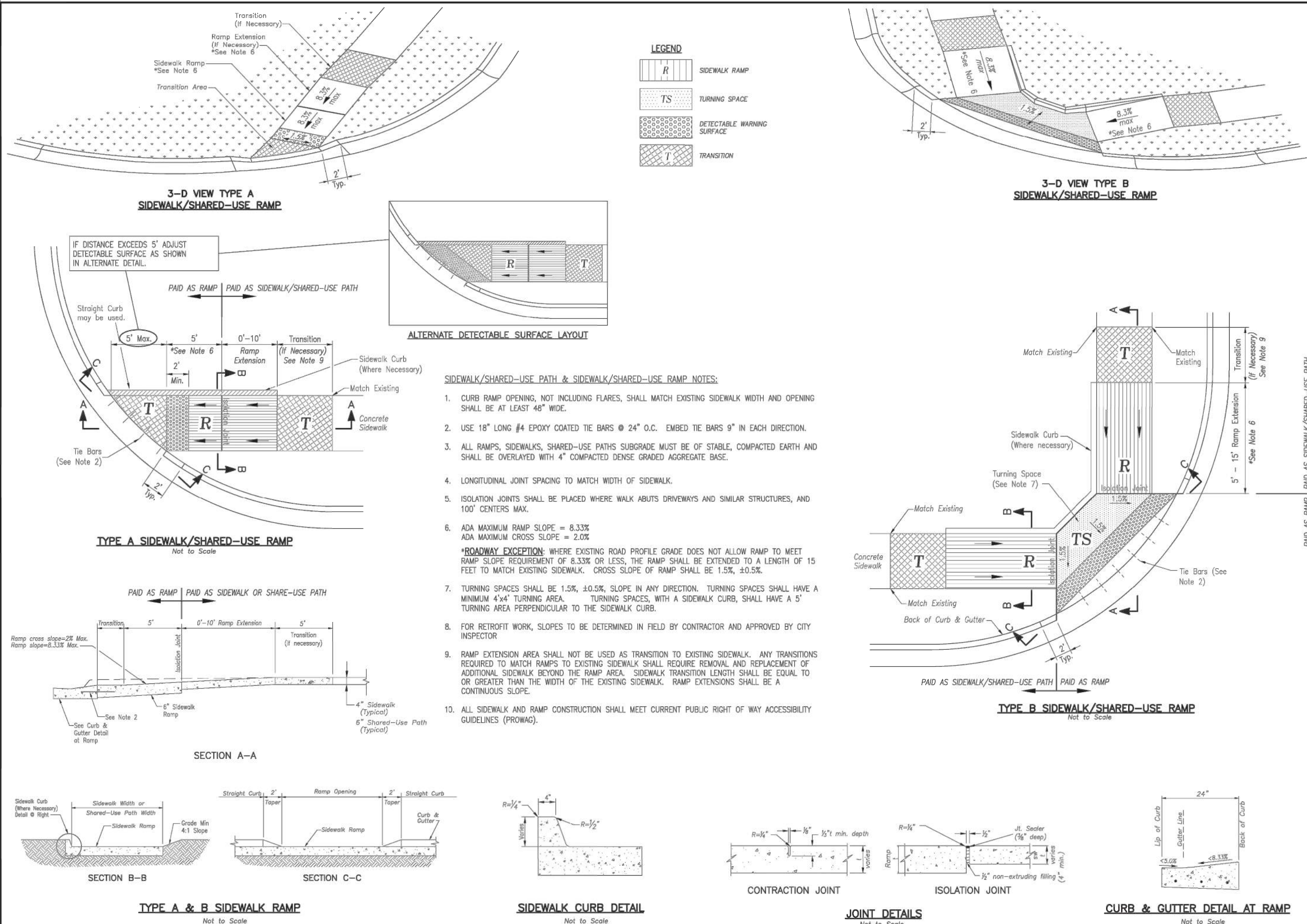
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**FIRE STATION #5**  
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MOR PE-202205196  
10/26/2022

PROJECT NO: 18225R21001  
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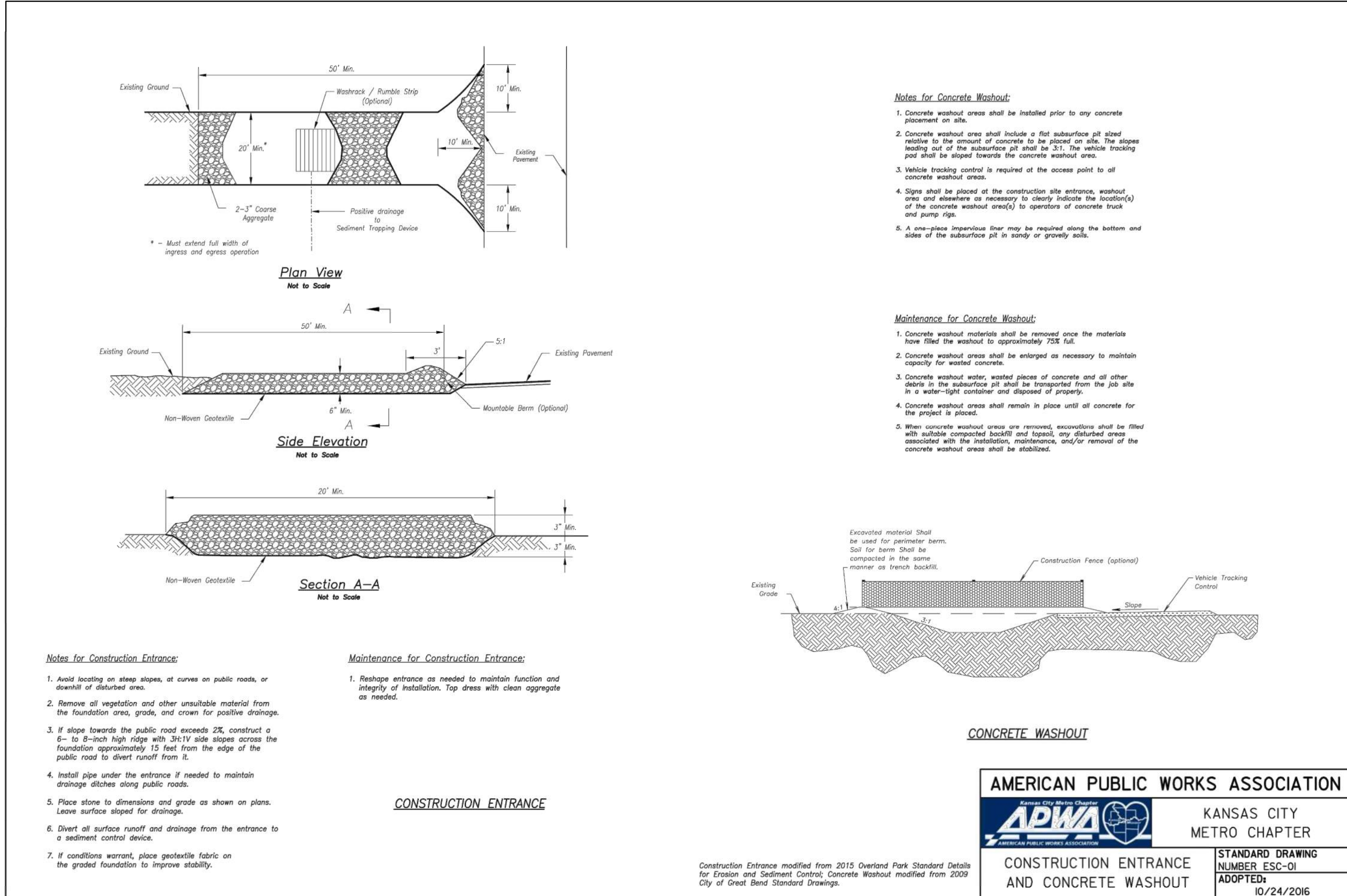
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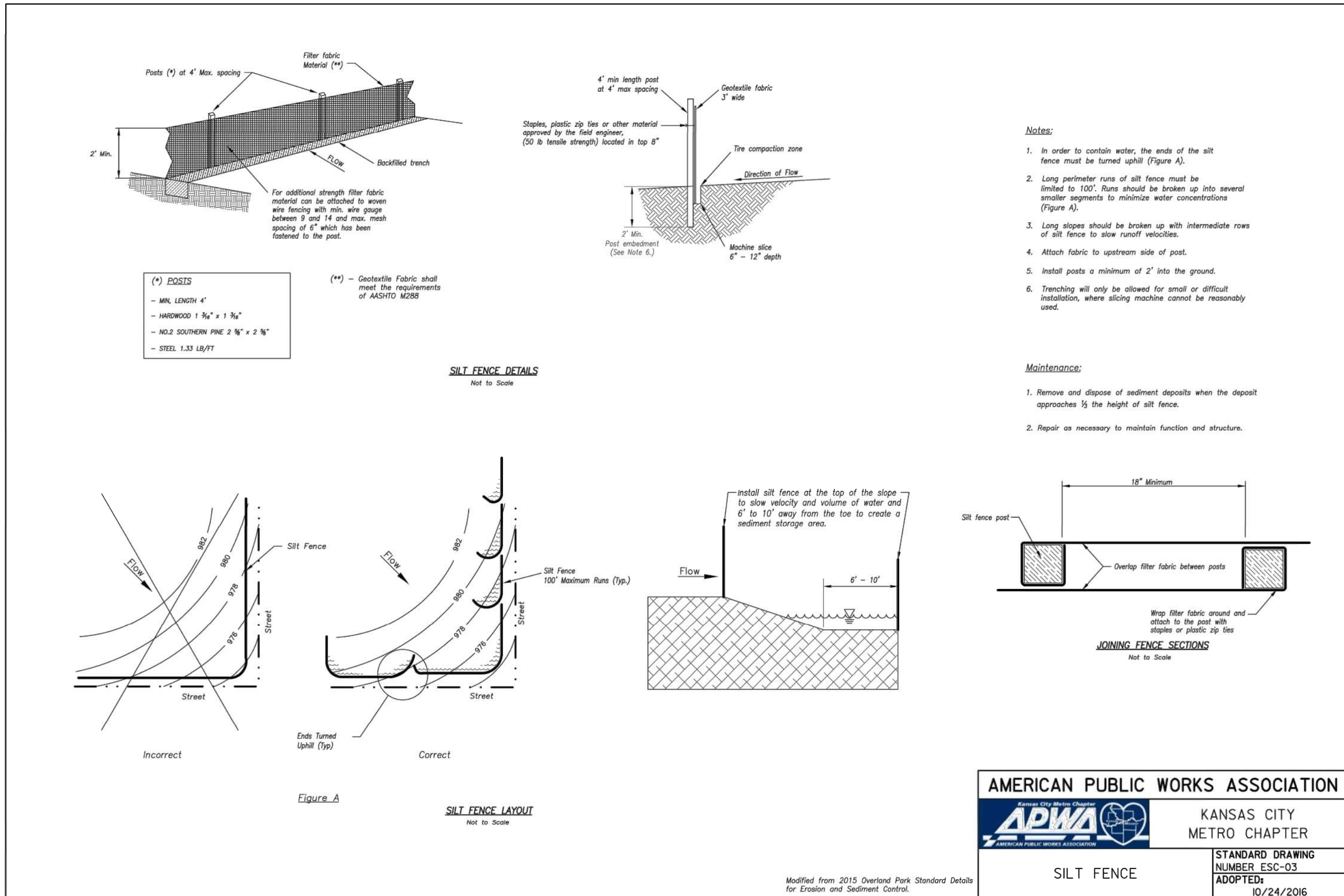
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## 1 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT

NTS

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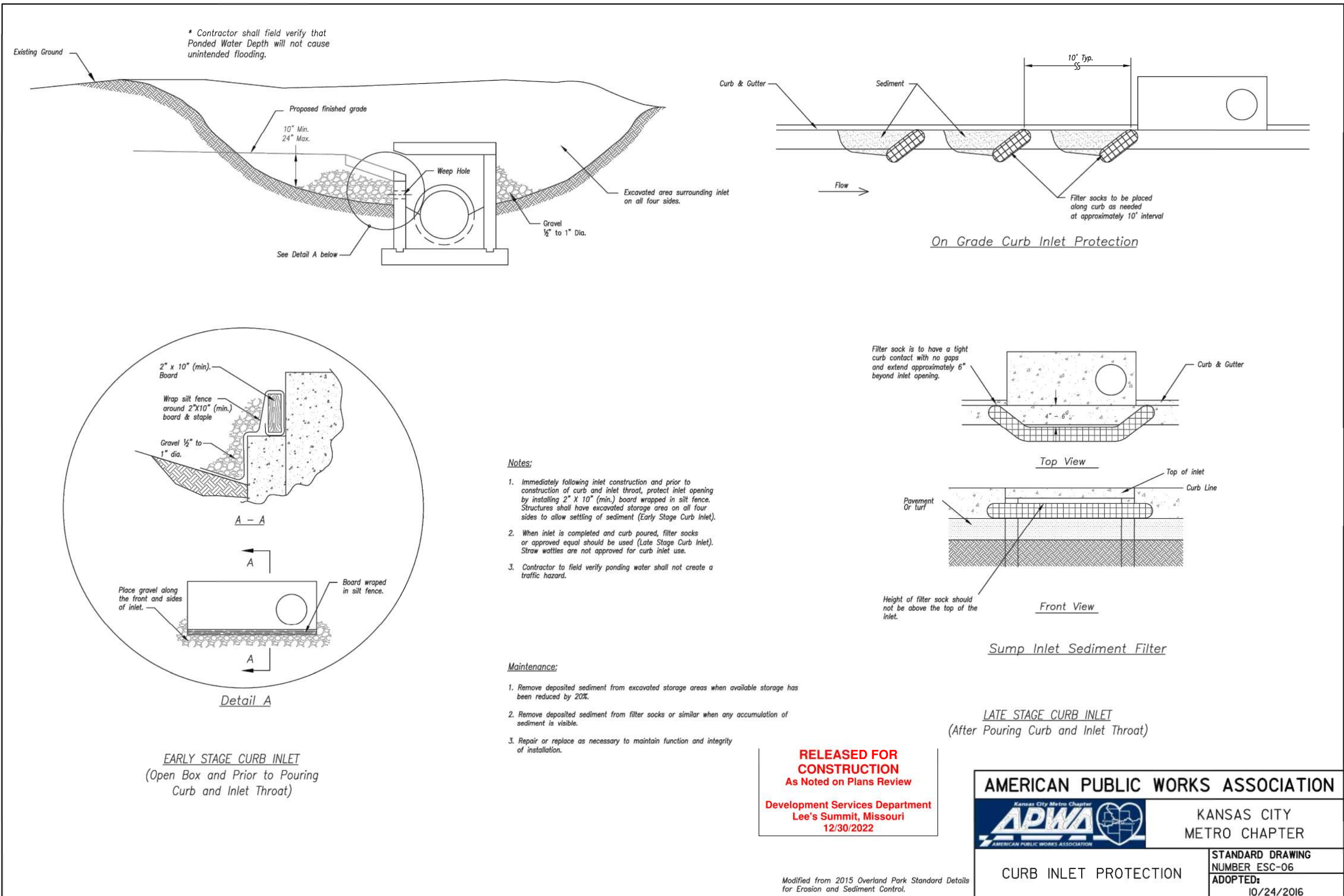
## 3 SILT FENCE

NTS

3

## 2 EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS

NTS



## 4 CURB INLET PROTECTION

NTS

4

4

5

5

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PROJECT NO: 18225R21001  
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CHKD BY: DMH

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**EROSION CONTROL DETAILS**  
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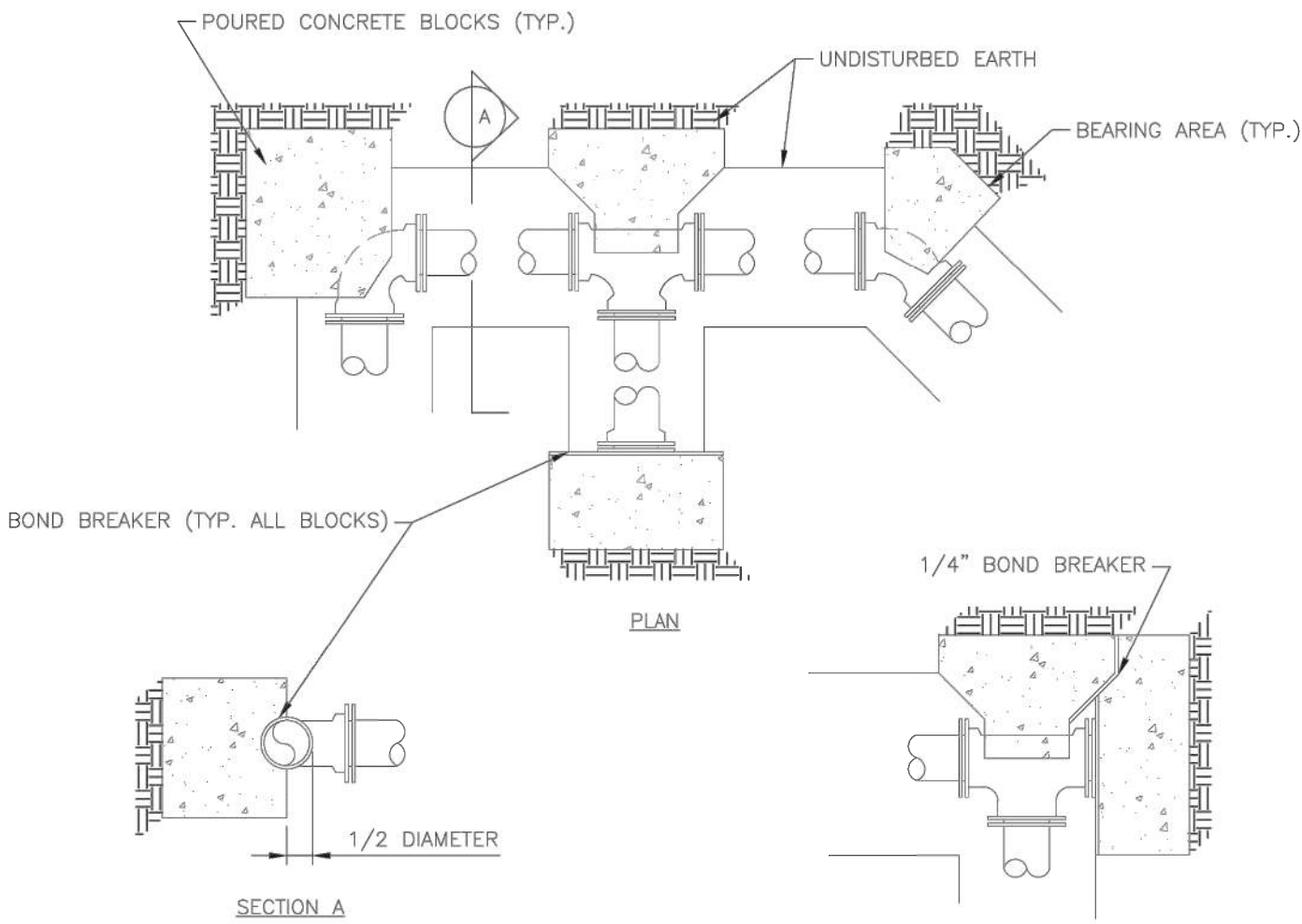
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A

REQUIRED CONCRETE BEARING AREA (SQUARE FEET - SF)					
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	4.7	6.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
16	33.5	47.4	25.6	13.1	6.6
18	42.4	REST. JT.	32.5	16.5	8.3
20	REST. JT.	REST. JT.	40.1	20.4	10.3
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8



- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
  2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
  3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
  4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

LS

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Date: 01/2016

Drawn By: JN

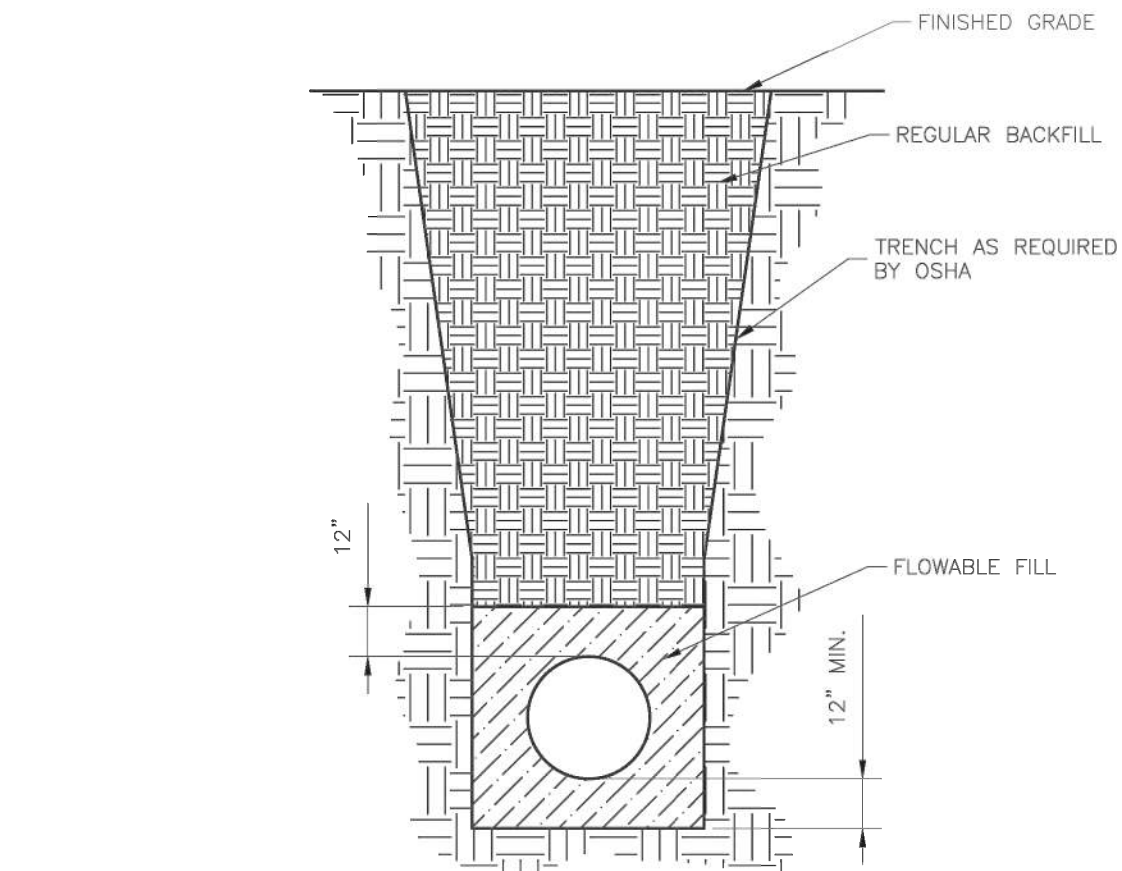
Checked By: DL

**HORIZONTAL THRUST BLOCK**

WAT-1

1

NTS



- NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
  2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
  3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
  4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12".

LS

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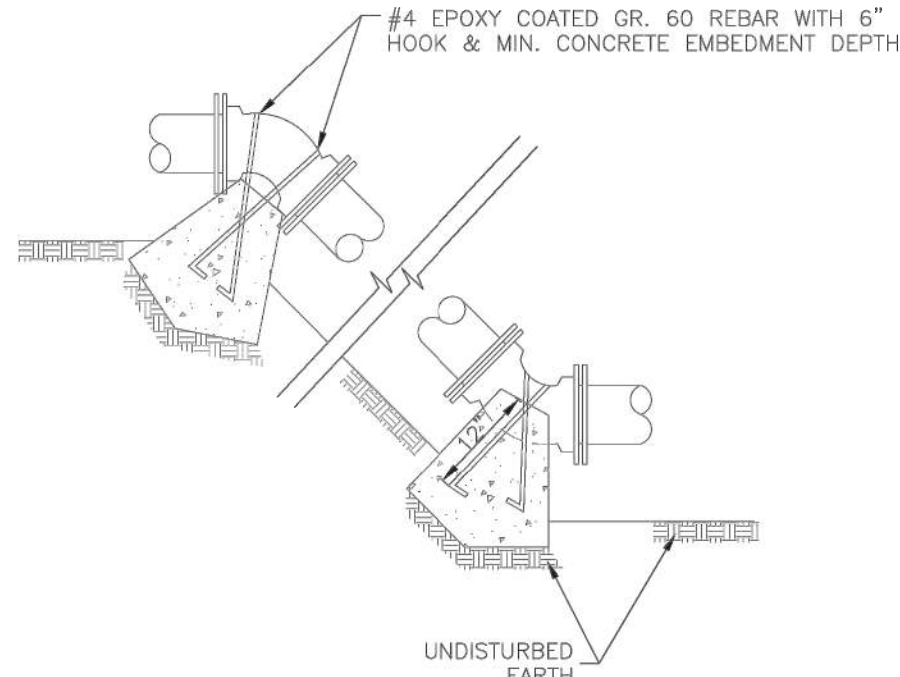
**WATER TRENCH CHECK DETAIL**

WAT-6

4

NTS

REQUIRED CONCRETE VOLUME (CUBIC FEET - CF)					
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	50.5	71.4	36.6	19.7	9.9
8	89.8	126.9	68.7	35.0	17.6
10	140.2	198.3	107.3	54.7	27.5
12	202.0	REST. JT.	154.6	78.8	39.6
14	REST. JT.	REST. JT.	210.4	107.3	53.9
16	REST. JT.	REST. JT.	REST. JT.	140.1	70.4
18	REST. JT.	REST. JT.	REST. JT.	177.3	89.1
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.	110.0
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.	158.4



- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
  2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
  3. BEARING MUST BE AGAINST UNDISTURBED SOIL.
  4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

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PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: WAT-2

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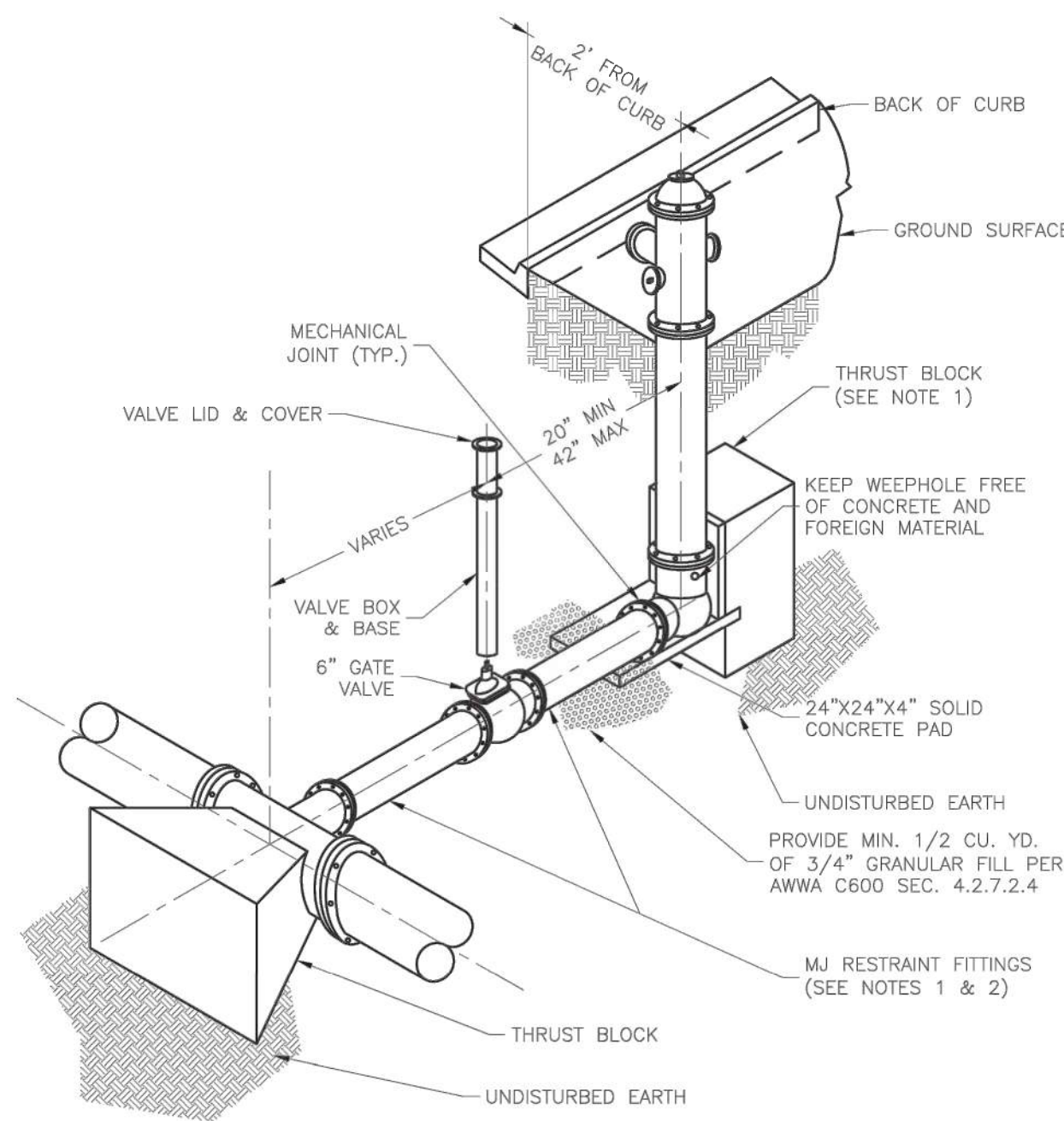
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**VERTICAL THRUST BLOCK**

WAT-2

2

NTS



- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
  2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
  3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
  4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
  5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
  6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

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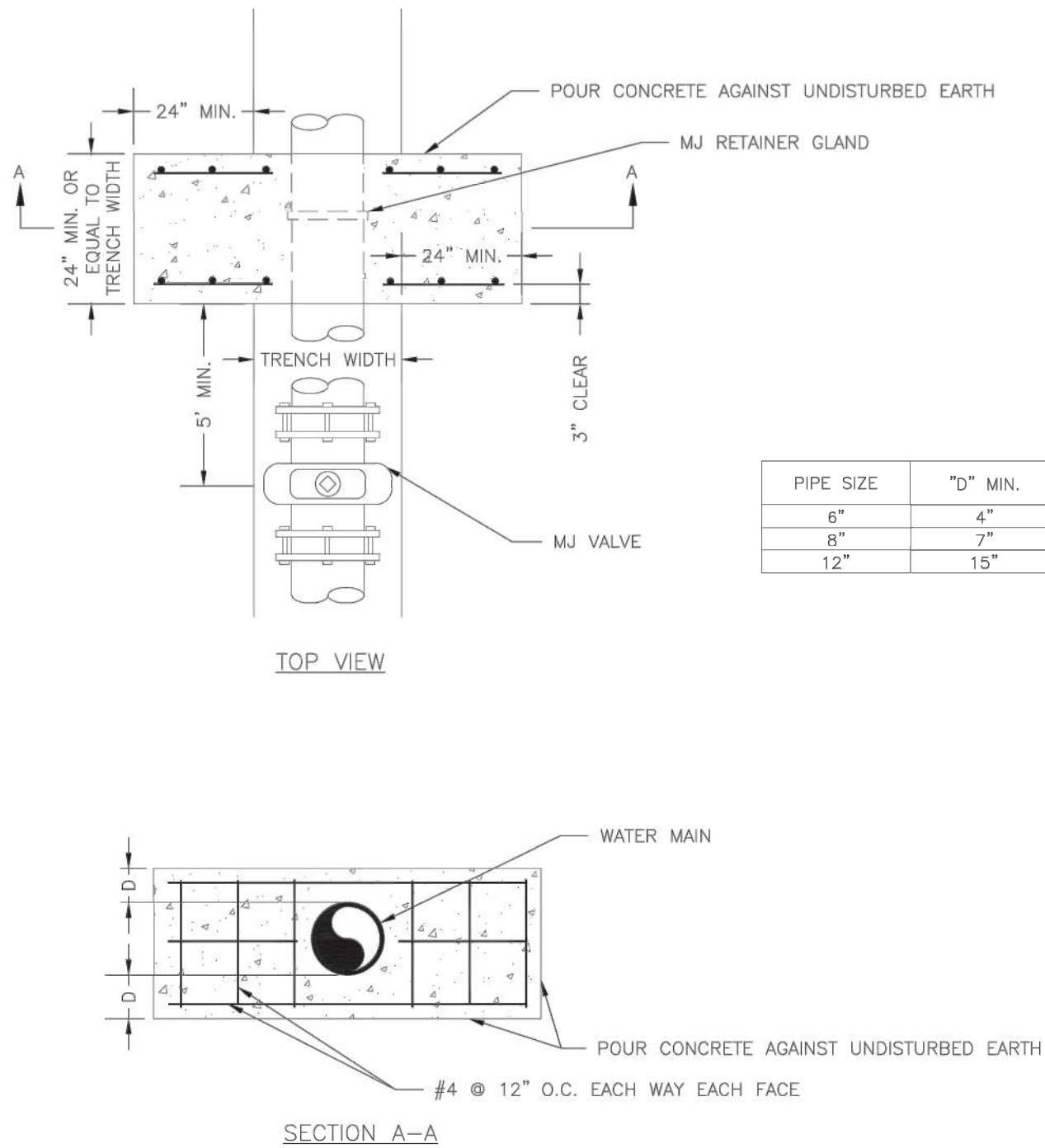
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**HYDRANT - STRAIGHT SET**

WAT-7

5

NTS



NOTE:  
THIS DETAIL NOT TO BE USED FOR PIPE GREATER THAN 12"

LS

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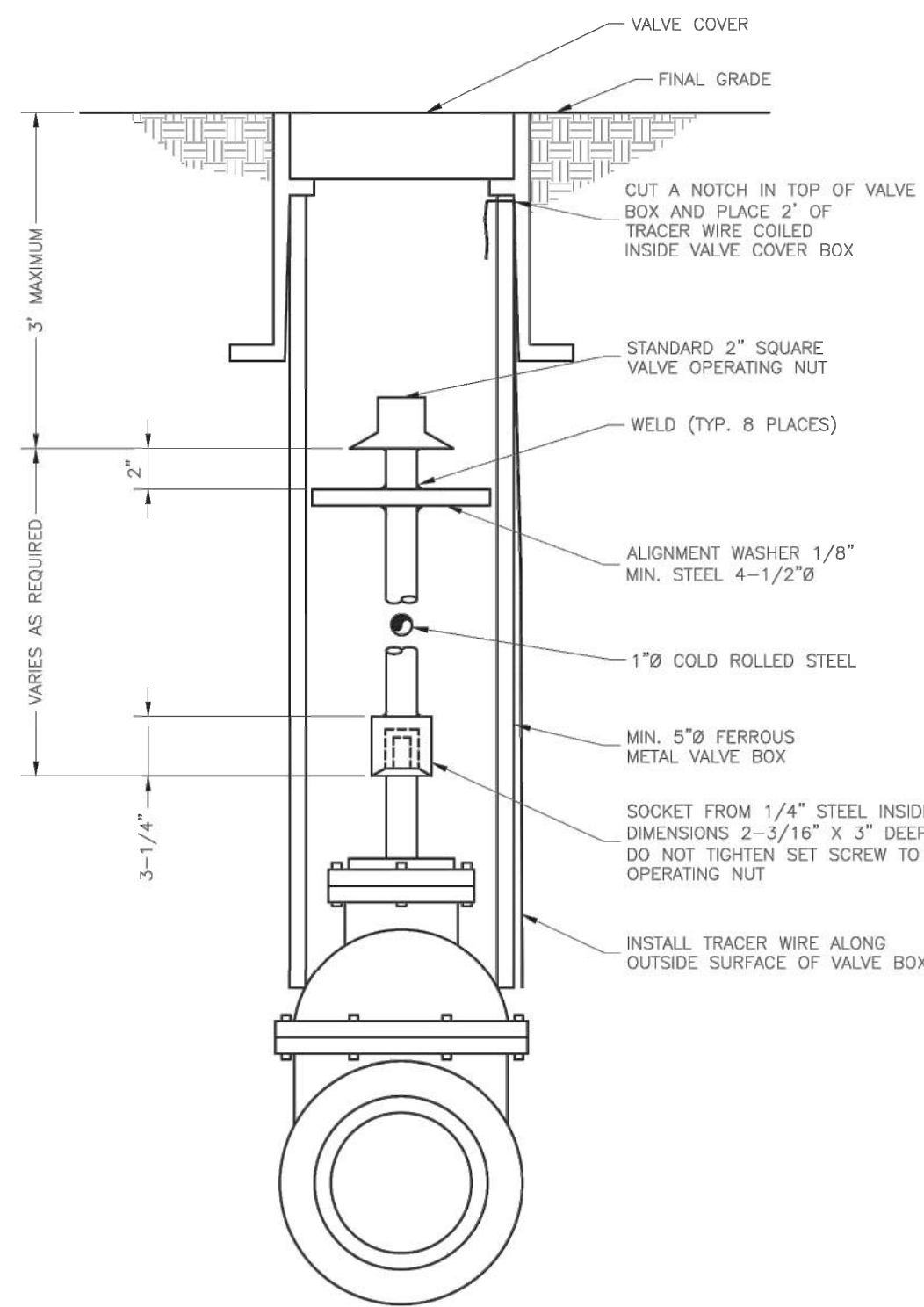
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**STRADDLE BLOCK**

WAT-3

3

NTS



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**VALVE STEM EXTENSION & VALVE BOX**

WAT-9

6

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**WATER  
DETAILS**

**C-520**

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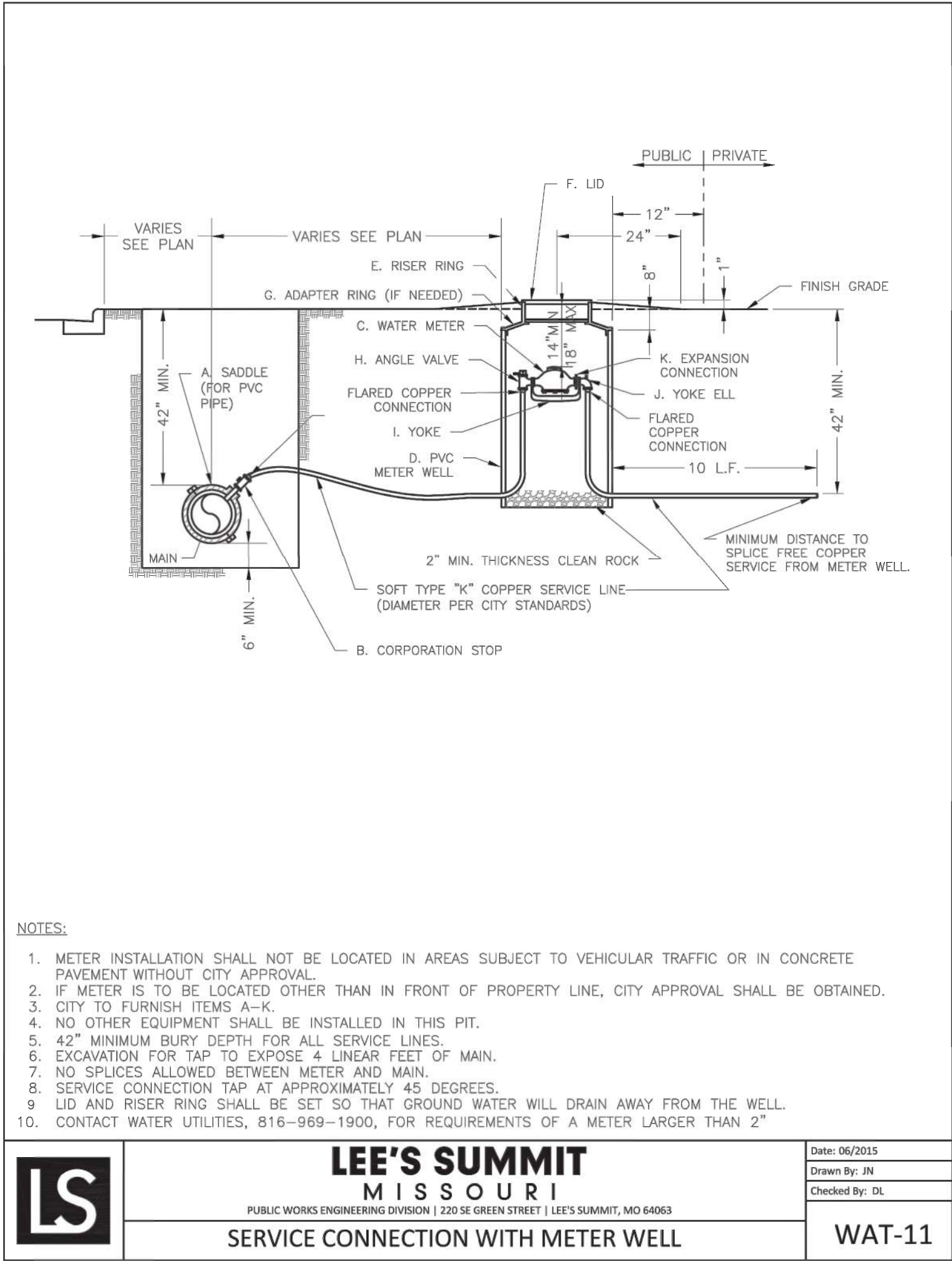


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**1 SERVICE CONNECTION WITH METER WELL**

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**WATER  
DETAILS**

**C-521**





The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 backfill as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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## NTS



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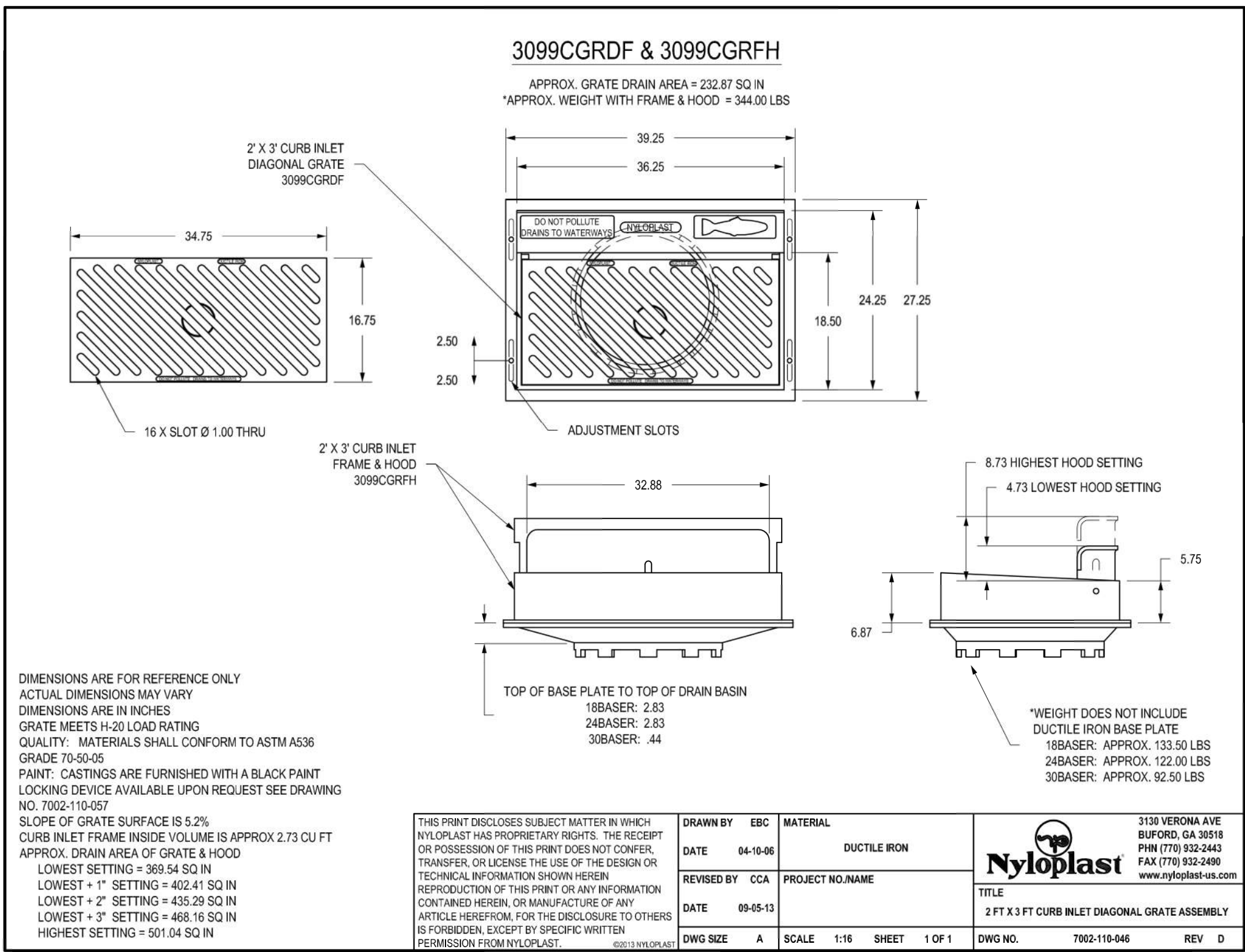
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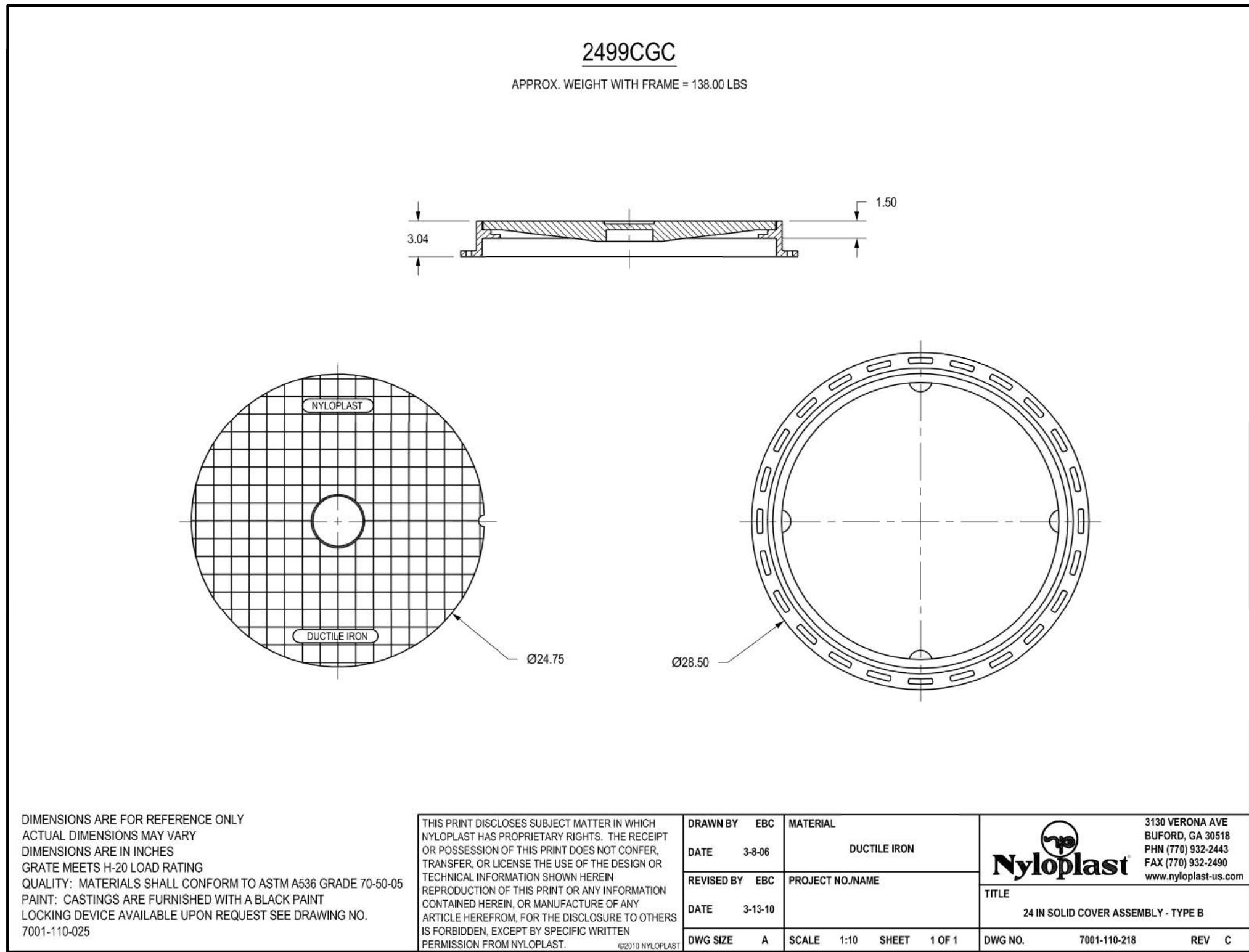


C

## 1 2'x3' CURB INLET DIAGONAL GRATE ASSEMBLY

NTS

B



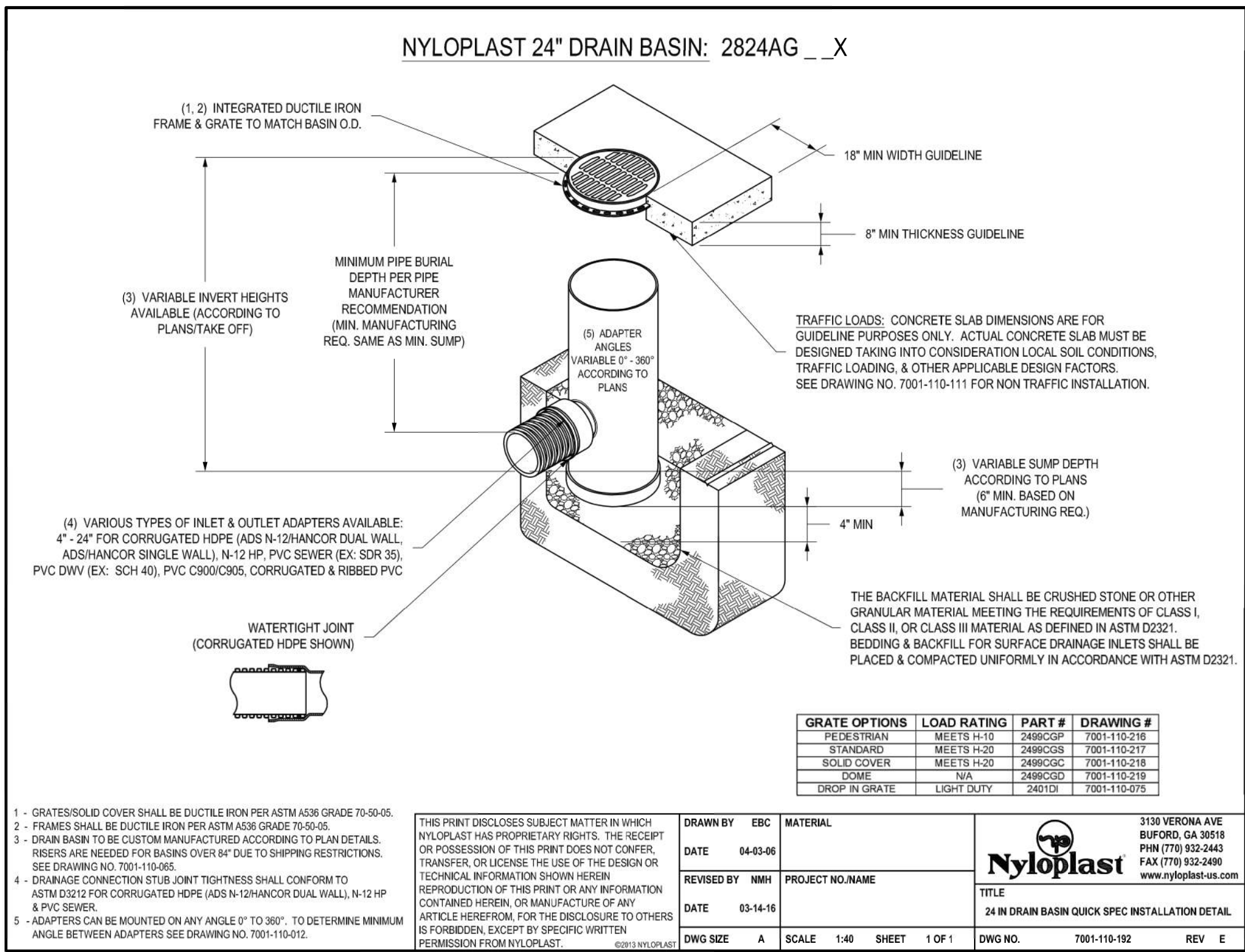
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## 24" SOLID COVER ASSEMBLY - TYPE B

NTS

2

3

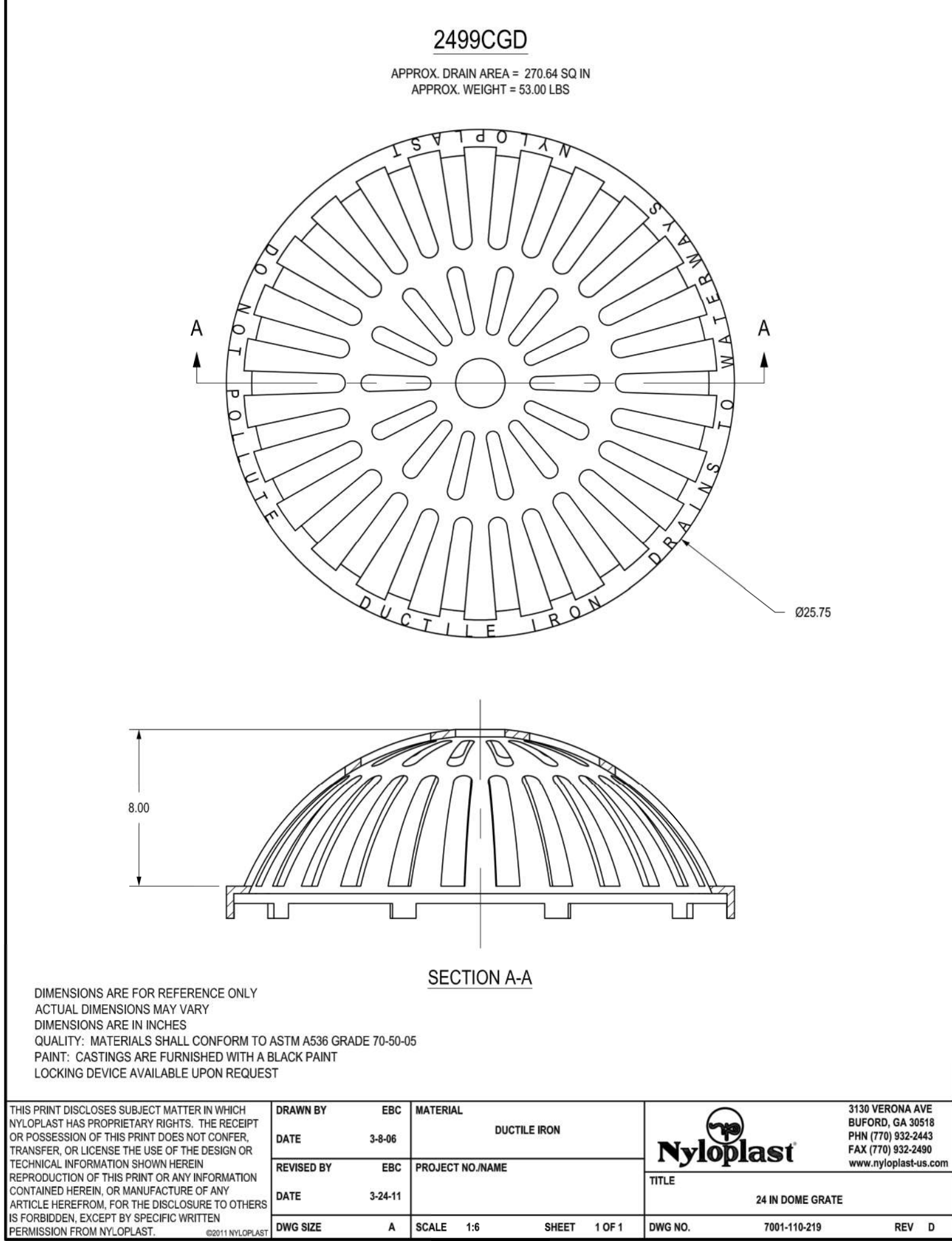


2

## 24" DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

NTS

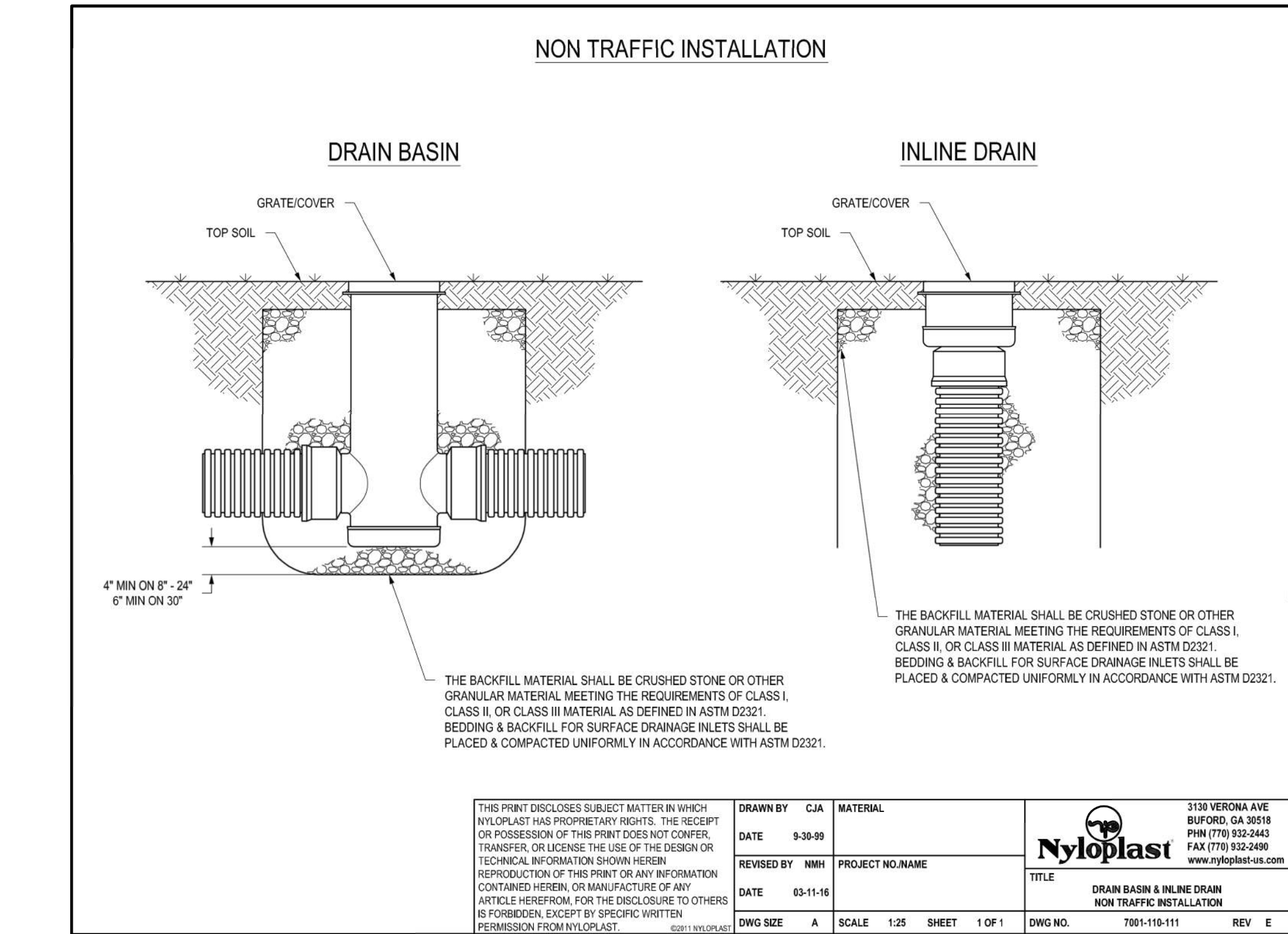
4



## 3 24" DOME GRATE

NTS

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5

## DRAIN BASIN & INLINE DRAIN NON-TRAFFIC INSTALLATION

NTS

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MISSOURI LANDSCAPE COA #000008  
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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

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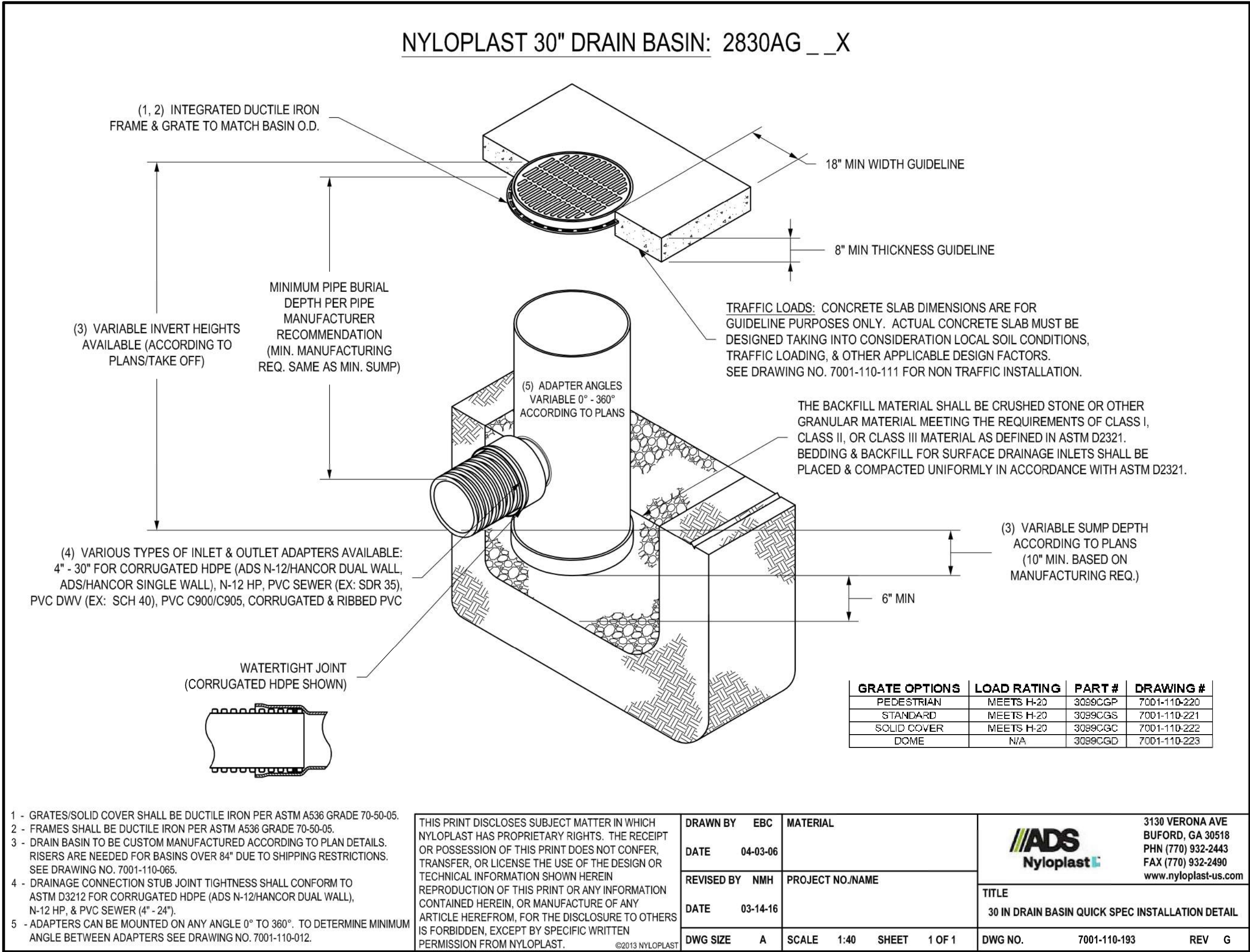


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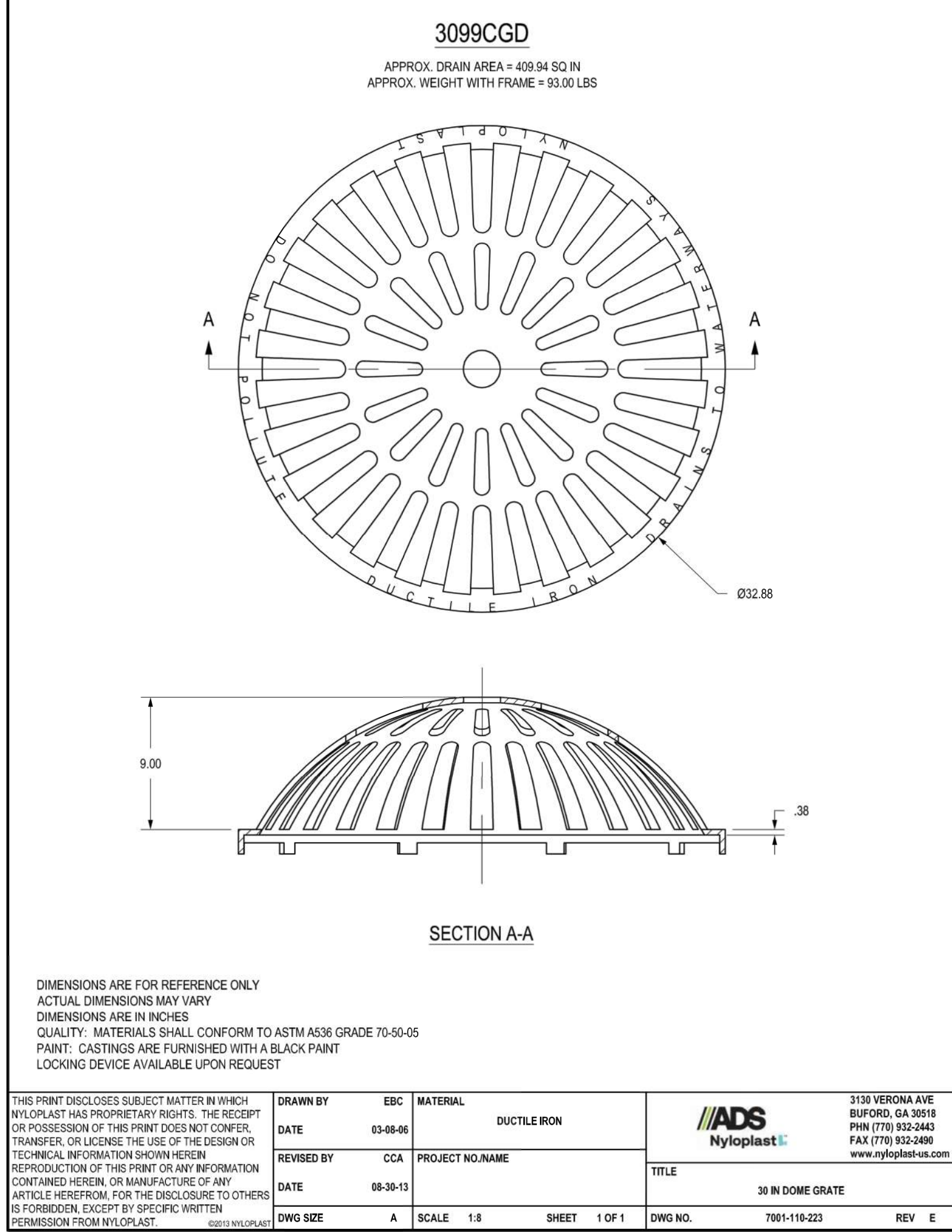
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B

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1 30" DRAIN BASIN QUICK SPEC INSTALLATION DETAIL



2 30" DOME GRATE

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REVISIONS:		
#	Description	Date

STATE OF MISSOURI  
DERICK M. HOLMES  
NUMBER  
PE-2022005196  
10/26/2022

DERICK HOLMES - CIVIL ENGINEER  
MO# PE-2022005196

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PROJECT NO:	18225R21001
DATE:	10.26.2022
DRAWN BY:	SJB
CHKD BY:	DMH

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**STORMWATER  
DETAILS**

**C-532**

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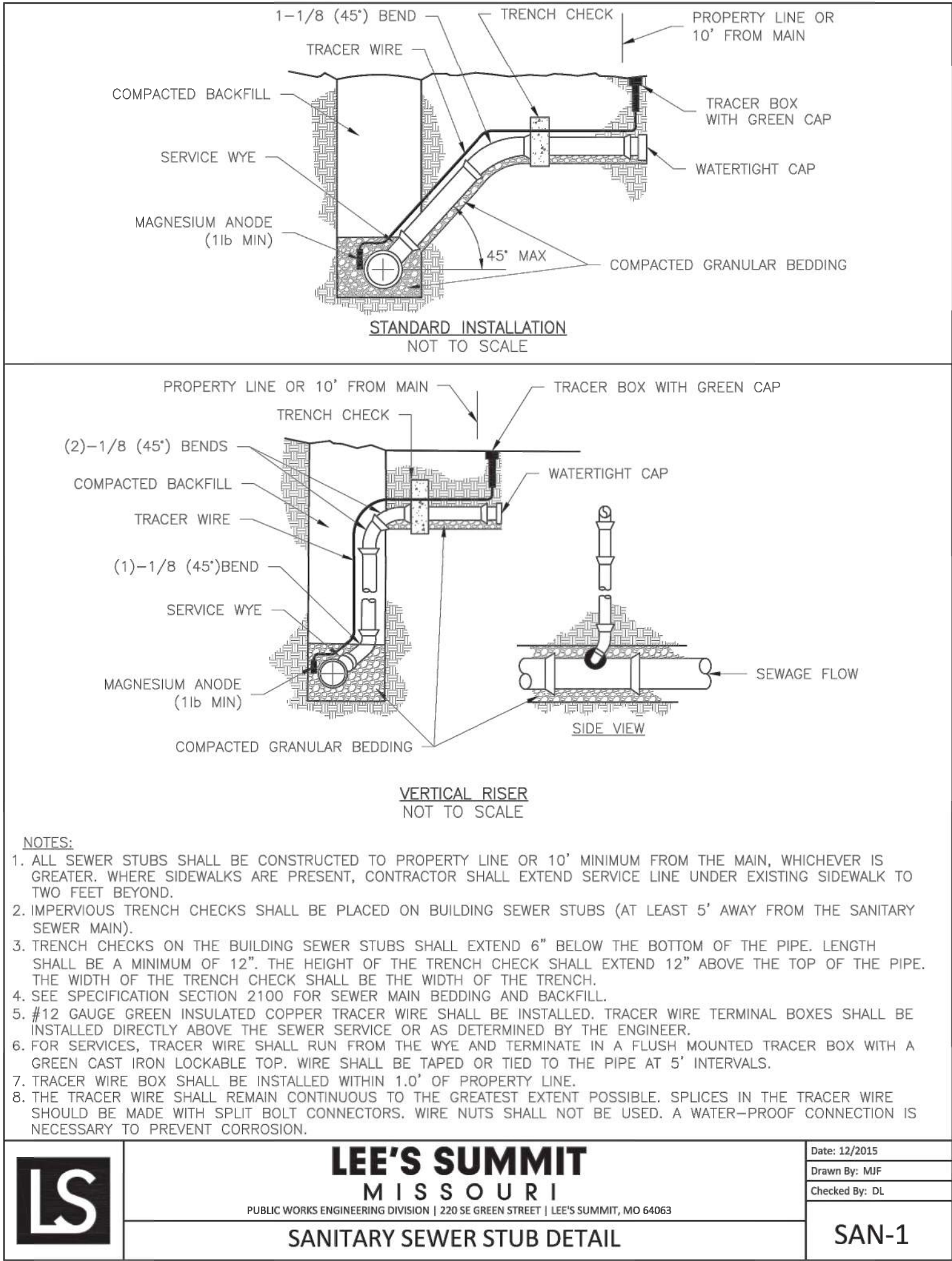


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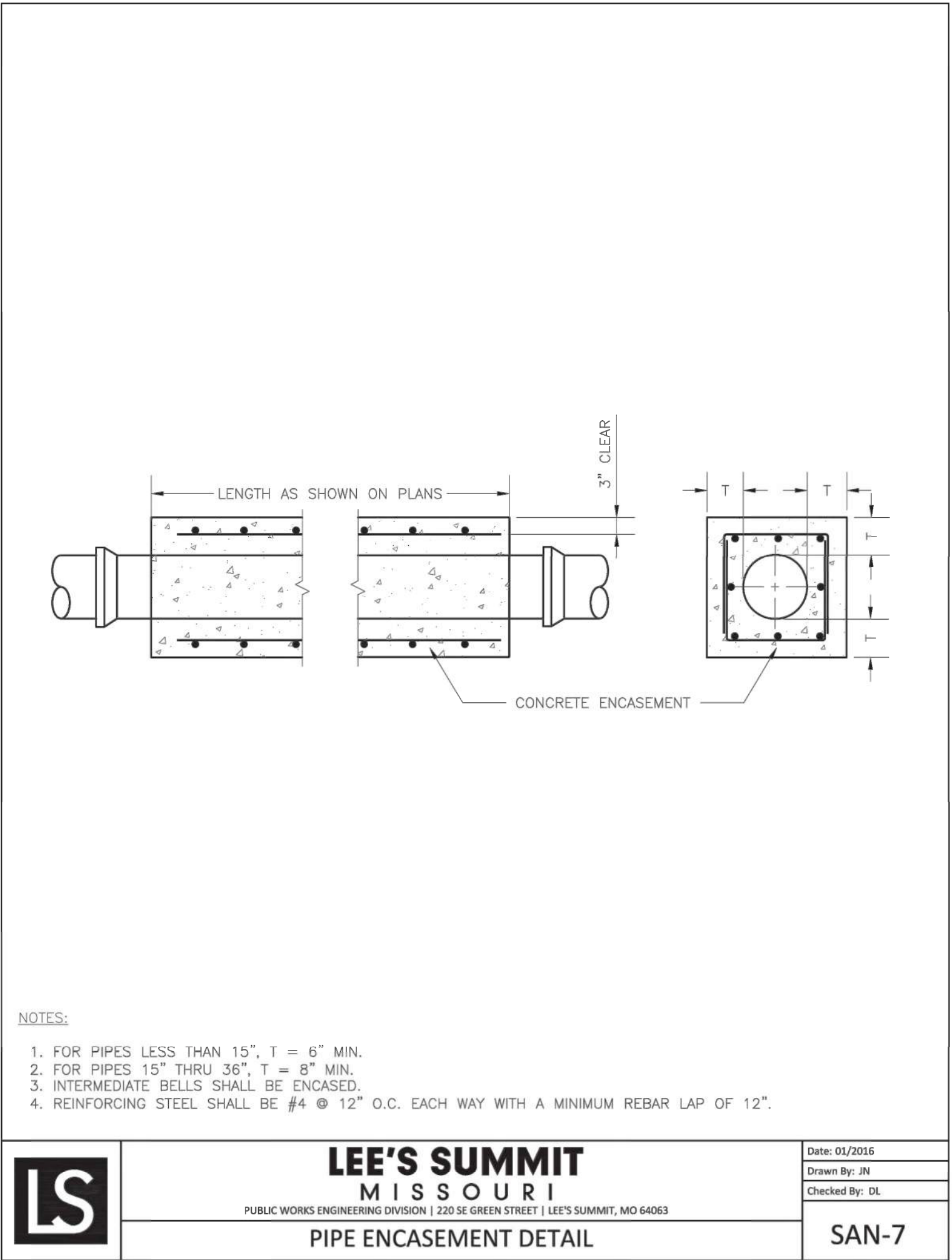
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**1** **SANITARY SEWER STUB**  
NTS



**2** **PIPE ENCASEMENT**  
NTS

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**FIRE STATION #5**  
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REVISIONS:

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CHKD BY:	DMH

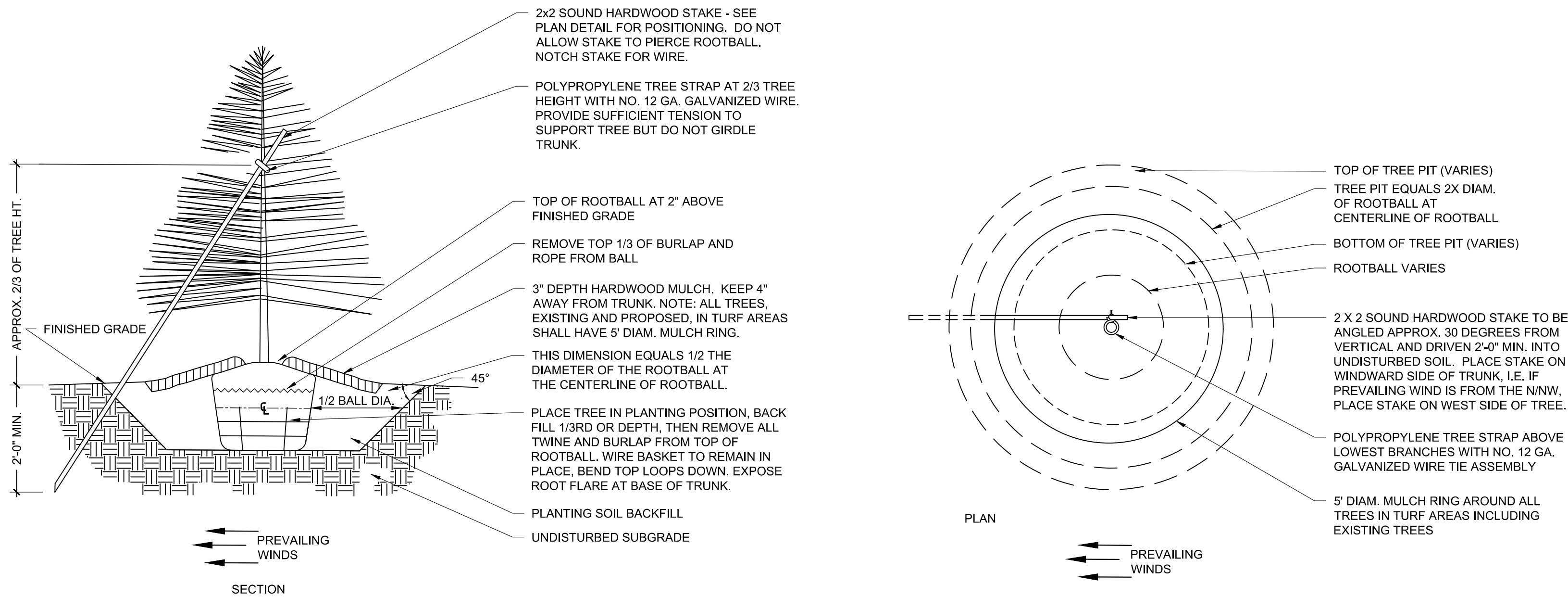
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**SANITARY  
SEWER  
DETAILS**

**C-540**



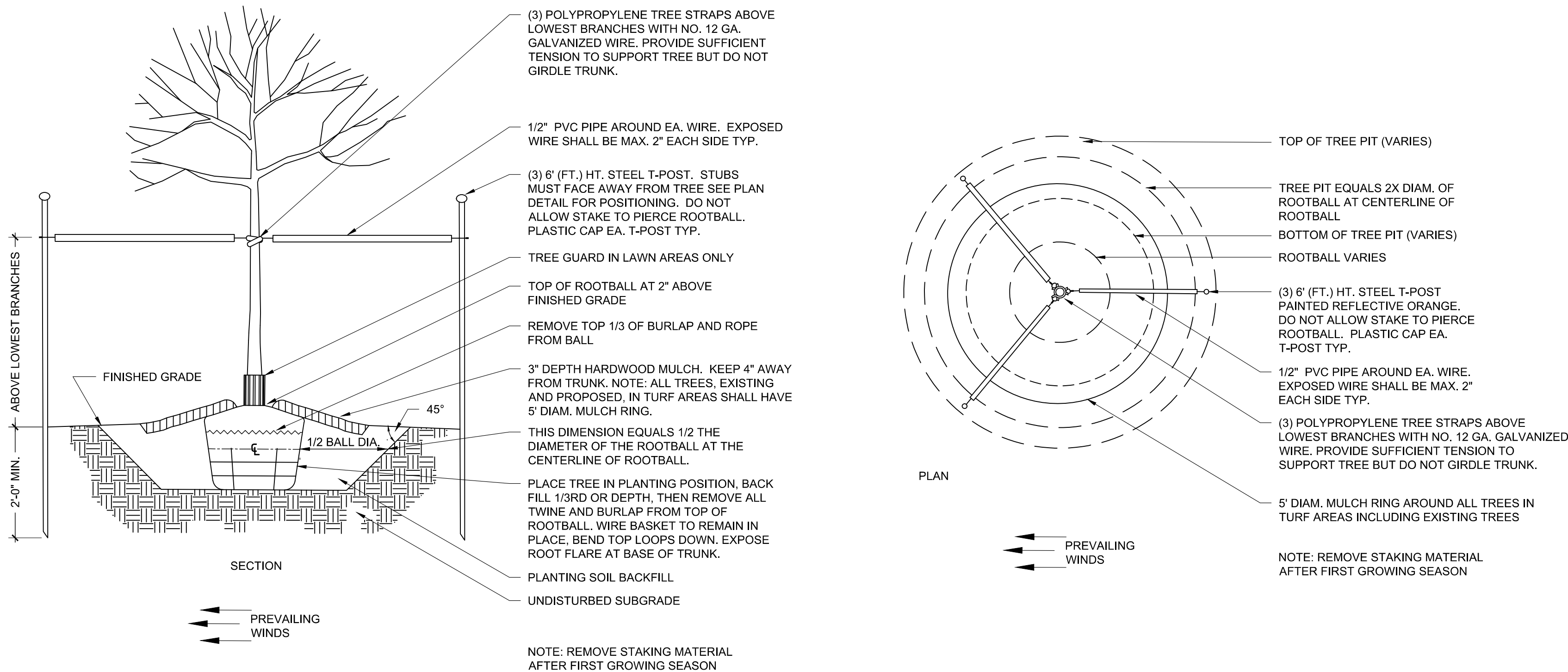
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## 1 EVERGREEN TREE PLANTING

N.T.S.

C



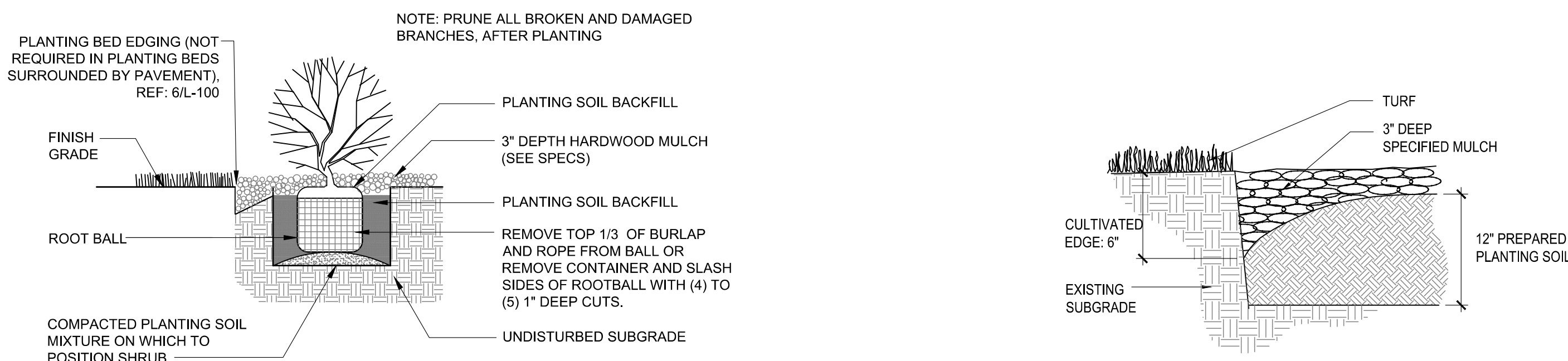
## 2 EVERGREEN TREE STAKING

N.T.S.

B

## 3 DECIDUOUS TREE PLANTING

N.T.S.



## 5 SHRUB PLANTING

N.T.S.

A

## 4 DECIDUOUS TREE STAKING

N.T.S.

## 6 CULTIVATED EDGE

N.T.S.

## GENERAL LANDSCAPE SITE NOTES

- PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL GIVE 48 HOURS ADVANCE NOTICE TO ALL THOSE COMPANIES/UTILITIES THAT HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
  - CONTRACTOR SHALL VERIFY ALL PLANT COUNTS, QUANTITIES AND AREAS AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT PRIOR TO ORDERING OR INSTALLING MATERIALS SPECIFIED.
  - SEE PLANT SCHEDULE FOR PLANT LEGEND AND QUANTITIES.
  - SYMBOLS INDICATED ON THE PLAN TAKE PRIORITY OVER WRITTEN QUANTITIES AND LABELS.
  - PLANTS CALLED OUT IN PLAN ARE CONSIDERED IN CLUSTERS EVEN IF NOT ATTACHED BY CONNECTING LINES. CALLOUTS HAVE TOTAL COUNTS NEEDED.
  - CONTRACTOR SHALL MAINTAIN THE LANDSCAPE UNTIL SUBSTANTIAL COMPLETION. MAINTENANCE WORK SHALL CONSIST OF APPLYING WATER, WEEDING, AND FERTILIZING.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR DISEASE AND PEST CONTROL DURING THE MAINTENANCE PERIOD.
  - CONTRACTOR TO VERIFY, WITH SOIL ANALYSIS, THE SOIL AMENDMENT NEEDED AND CONTACT THE LANDSCAPE ARCHITECT IF THERE ARE ANY INADEQUATE AMENITIES.
  - PLANT MATERIAL SHALL NOT BE DELIVERED TO THE SITE NOR INSTALLED WHEN TEMPERATURES ARE ABOVE 90°F OR BELOW 40°F AT THE TIME OF PLANTING AND FORECASTED FOR A PERIOD OF 2 WEEKS AFTER INSTALLATION.
  - CONTRACTOR TO PROVIDE A 1-YEAR WARRANTY ON ALL INSTALLED PLANTINGS FROM POINT OF SUBSTANTIAL COMPLETION.
- ## PLANTING NOTES
- ALL PLANT MATERIAL SHALL BE OF EXCELLENT QUALITY, FREE OF DISEASE AND INFESTATION, AND TRUE TO TYPE, VARIETY, SIZE SPECIFIED, AND FORM PER THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1, CURRENT VERSION), PUBLISHED BY THE AMERICAN NURSERYMEN'S ASSOCIATION.
  - PLANT MATERIAL SHALL BE PLANTED AND MAINTAINED TO ASNS SPECIFICATIONS.
  - CONTRACTOR SHALL VERIFY ALL LANDSCAPE MATERIAL QUANTITIES AND SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
  - NO SUBSTITUTIONS FOR VARIETY OR CULTIVAR SHALL BE ACCEPTED WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM LANDSCAPE ARCHITECT.
  - ALL TREES AND SHRUBS SHALL BE LAID OUT IN A UNIFORM AND CONSISTENT PATTERN, FOLLOWING THE LANDSCAPE PLAN ACCURATELY, PAYING ATTENTION TO EVEN SPACING IN THE ROW OR COVERAGE AREA OF THE INDIVIDUAL SPECIES AND HOW IT IS BEING USED.
  - ALL PLANTING BEDS ABUTTING LAWN AREAS SHALL HAVE A CULTIVATED EDGE (SEE DETAIL, THIS SHEET).
  - ALL PLANTINGS SHALL BE THOROUGHLY WATERED IN WITH A GARDEN HOSE, TWICE, THE SAME DAY AS INSTALLATION TO ELIMINATE AIR POCKETS IN THE BACKFILL.
  - NO PLANTINGS SHALL BE PLACED CLOSER THAN 3' FROM THE BACK OF THE CURB TO ALLOW FOR VEHICLE BUMPER OVERHANG.
  - PROPOSED TREES SHALL NOT BE PLACED OVER EXISTING OR PROPOSED UTILITY SERVICE LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND UTILITY LOCATIONS AND HAVE THEM MARKED DURING TREE PLANTING OPERATIONS. IF UTILITY IS DAMAGED DURING PLANTING, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE GENERAL CONTRACTOR AND OWNER OF UTILITY AND PAYING FOR REPAIR OF THE DAMAGED UTILITY.
  - ALL PLANTING BEDS WILL HAVE 3-INCHES OF SHREDDED BROWN HARDWOOD MULCH UNLESS OTHERWISE SPECIFIED.

## PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	
	AB	3	Acer rubrum 'Brandywine' / Brandywine Red Maple	B & B	3"	
	AA	3	Acer rubrum 'Armstrong' / Armstrong Red Maple	B & B	3"	
	GP	2	Ginkgo biloba 'Princeton Sentry' / Princeton Sentry Maidenhair Tree	B & B	3"	
	KP	2	Koelreuteria paniculata / Golden Rain Tree	B & B	3"	
	MA	3	Malus x 'Adirondack' / Adirondack Crabapple	B & B	3"	
	NW	5	Nyssa sylvatica 'Wildfire' / Black Gum	B & B	3"	
	UC	1	Ulmus x 'Frontier' / Frontier Elm	B & B	3"	
	ZM	3	Zelkova serrata 'Musashino' / Musashino Sawleaf Zelkova	B & B	3"	
CONIFERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	
	PB	4	Picea pungens 'Baby Blue' / Baby Blue Colorado Spruce	B & B	8' Ht	
	TS	10	Thuja occidentalis 'Smaragd' / Emerald Green Arborvitae	B & B	8' Ht	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONT.	SPACING
	Ca	25	Cornus sericea 'Artic Fire' / Artic Fire Dogwood	5 gal	Pot	48" o.c.
	Ec	3	Euonymus alatus 'Compactus' / Compact Burning Bush	5 gal	Pot	72" o.c.
	Ho	33	Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily	Quart	Pot	18" o.c.
	Hf	3	Hosta x 'First Frost' / First Frost Hosta	2 gal	Pot	30" o.c.
	Lm	20	Liriope muscari / Lily Turf	Quart	Pot	12" o.c.
	Rr	12	Rosa x 'Knockout' TM / Rose	2 gal	Pot	48" o.c.
GRASSES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONT.	SPACING
	Ck	20	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	3 gal.	Pot	36" o.c.
	Sh	34	Sporobolus heterolepis / Prairie Dropseed	2 gal	Pot	30" o.c.
EVERGREEN	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONT.	SPACING
	Jl	17	Juniperus chinensis 'Gold Lace' / Gold Lace Juniper	5 gal	Pot	60" o.c.
SOD/SEED	CODE	QTY	BOTANICAL / COMMON NAME	TYPE		
	Fa	15,445 sf	Festuca arundinacea / Tall Fescue 90% Fescue, 10% Bluegrass Mix	sod		

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Lee's Summit, Missouri  
12/30/2022

## LANDSCAPE SCHEDULE

7

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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

#	Description	Date
2	ASI 02	11.22.2022

11.22.2022  
KYLE WARD - LANDSCAPE ARCHITECT  
MO# PLA-2016002020

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DATE: 10.26.2022  
DRAWN BY: KDW  
CHKD BY: CDW

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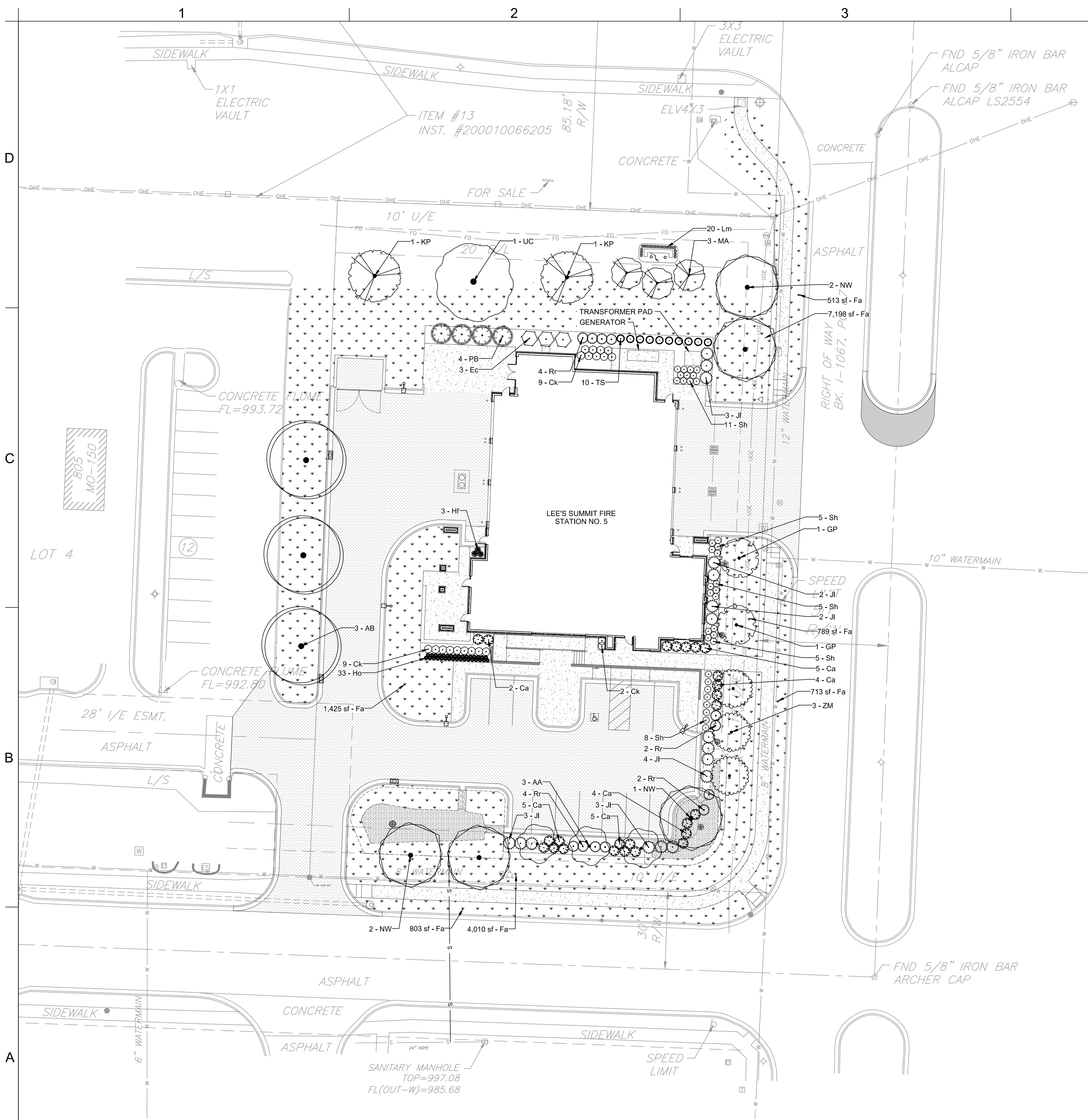
## LANDSCAPE SCHEDULE

L-100

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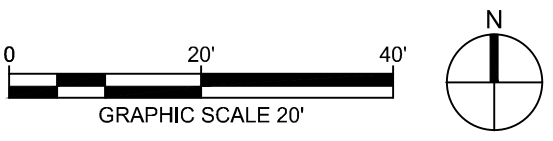
LANDSCAPE NOTES

- ALL SHRUBS ADJACENT TO A SIDEWALK OR EDGE SHALL BE PLANTED 1/2 THE SPACING SPECIFIED IN THE PLANT SCHEDULE.
- SEE SHEET L-100 FOR PLANT SCHEDULE AND QUANTITIES.
- FINAL PLANT LOCATIONS TO BE VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL PLANTING BED EDGES SHALL BE A CULTIVATED EDGE. SEE DETAIL 6 ON SHEET L-100.
- ALL LANDSCAPE AREAS (EXCLUDING SOD) ARE TO BE MULCHED WITH A 3" DEEP LAYER OF BROWN HARDWOOD MULCH AT THE CONCLUSION OF THE PLANTING OPERATIONS. MULCH SHALL BE DOUBLE GROUND, HARDWOOD, 1" DIAMETER IN SIZE OR SMALLER.

LANDSCAPE LEGEND

TREES	CODE	BOTANICAL NAME	COMMON NAME
	AB	Acer rubrum 'Brandywine'	Brandywine Red Maple
	AA	Acer rubrum 'Armstrong'	Armstrong Red Maple
	GP	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Maidenhair Tree
	KP	Koelreuteria paniculata	Golden Rain Tree
	MA	Malus x 'Adirondack'	Adirondack Crabapple
	NW	Nyssa sylvatica 'Wildfire'	Black Gum
	UC	Ulmus x 'Frontier'	Frontier Elm
	ZM	Zelkova serrata 'Musashino'	Musashino Sawleaf Zelkova
CONIFERS	CODE	BOTANICAL NAME	COMMON NAME
	PB	Picea pungens 'Baby Blue'	Baby Blue Colorado Spruce
	TS	Thuja occidentalis 'Smaragd'	Emerald Green Arborvitae
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME
	Ca	Cornus sericea 'Artic Fire'	Artic Fire Dogwood
	Ec	Euonymus alatus 'Compactus'	Compact Burning Bush
	Ho	Hemerocallis x 'Stella de Oro'	Stella de Oro Daylily
	Hf	Hosta x 'First Frost'	First Frost Hosta
	Lm	Liriope muscari	Lily Turf
	Rr	Rosa x 'Knockout' TM	Rose
GRASSES	CODE	BOTANICAL NAME	COMMON NAME
	Ck	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass
	Sh	Sporobolus heterolepis	Prairie Dropseed
EVERGREEN	CODE	BOTANICAL NAME	COMMON NAME
	JI	Juniperus chinensis 'Gold Lace'	Gold Lace Juniper
SOD/SEED	CODE	BOTANICAL NAME	COMMON NAME
	Fa	Festuca arundinacea 90% Fescue, 10% Bluegrass Mix	Tall Fescue

1 LANDSCAPE PLAN



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KYLE WARD - LANDSCAPE ARCHITECT  
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DATE: 10.26.2022  
DRAWN BY: KDW  
CHKD BY: CDW

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**LANDSCAPE  
PLAN**

**L-101**

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A

1. ALL WORK SHALL CONFORM TO 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI.
2. DESIGN LOADS
- A. ROOF LOAD (5 PSF NET UPLIFT)
1. DEAD LOAD TOP CHORD 20 PSF
  2. DEAD LOAD BOT. CHORD 5 PSF
  3. LIVE LOAD TOP CHORD 25 PSF
  4. LIVE LOAD BOT. CHORD 0 PSF (U.N.O)
- B. ROOF LOAD (STORM SHELTER)
1. DEAD LOAD SELF PSF
  2. LIVE LOAD 170 PSF
- C. FLOOR LOADS
1. DEAD LOAD 55 PSF
  2. LIVE LOAD 100 PSF
- D. STAIR LOADS
1. DEAD LOAD 40 PSF
  2. LIVE LOAD 100 PSF
- E. ROOF SNOW LOAD
1. FLAT ROOF SNOW LOAD,  $P_f$  24 PSF
  2. SNOW EXPOSURE FACTOR,  $C_e$  0.9
  3. SNOW LOAD IMPORTANCE FACTOR,  $I$  1.2
  4. THERMAL FACTOR,  $C_t$  1.1
  5. DRIFTING PER CODE
- F. WIND LOADS
1. BASIC WIND SPEED (3 SECOND GUST) 122 MPH
  2. WIND IMPORTANCE FACTOR,  $I$  1.0
  3. BUILDING CATEGORY IV
  4. WIND EXPOSURE B
  5. COMPONENTS AND CLADDING DESIGN VALUE (U.N.O.) 25 PSF
- G. SEISMIC LOADS
1. CATEGORY IV
  2.  $S_s$  0.099
  3.  $S_1$  0.068
  4.  $S_{DS}$  0.105
  5.  $S_{D1}$  0.108
  6. SEISMIC IMPORTANCE FACTOR,  $I$  1.5
  7. SITE CLASS C
  8. SEISMIC DESIGN CATEGORY C
  9. SEISMIC FORCE RESISTING SYSTEMS; STEEL ORDINARY MOMENT FRAMES
  10. RESPONSE MODIFICATION COEFFICIENT,  $R$  3 1/2
  11. SEISMIC RESPONSE COEFFICIENTS,  $C_s$  0.045
  12. DESIGN BASE SHEAR 22 K
  13. ANALYSIS PROCEDURE; EQUIVALENT LATERAL FORCE PROCEDURE.
- H. WIND LOADS - STORM SHELTER
1. SHELTER TYPE TORNADO SHELTER
  2. BASIC WIND SPEED (3 SECOND GUST) 250 MPH
  3. WIND IMPORTANCE FACTOR,  $I$  1.0
  4. BUILDING CATEGORY IV
  5. WIND EXPOSURE C
  6. INTERNAL PRESSURE COEFFICIENT; GCPI +/- 0.55
  7. WALL COMPONENTS & CLADDING (U.N.O.) REF. S-307
  8. ROOF COMPONENTS & CLADDING (U.N.O.) REF. S-307
  9. WIND UPLIFT 163 PSF
  10. TOPOGRAPHIC FACTOR;  $K_{zt}$  1.0
  11. DIRECTIONALITY FACTOR;  $K_d$  1.0
  12. THE WIND DESIGN CONFORMS TO THE PROVISIONS OF THE ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS PER THE ICC 500 2020.
  13. STRUCTURE IS NOT LOCATED IN A FLOOD ZONE.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO FABRICATION. REFERENCE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. IF DISCREPANCIES EXIST BETWEEN SPECIFICATIONS, CONTRACT DRAWINGS, AND/OR SHOP DRAWINGS NOTIFY THE ENGINEER OF RECORD.
5. THE CONTRACTOR SHALL REVIEW DRAWINGS FROM ALL OTHER DISCIPLINES FOR PERTINENT MISC. ITEMS OR INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED.
6. THE BUILDING IS NOT STRUCTURALLY STABLE UNTIL ALL CONNECTIONS, FRAMING, SHEAR WALLS, PERMANENT BRACING, AND EXTERIOR LOAD-BEARING WALLS ARE COMPLETE AND HAVE ACHIEVED THEIR RESPECTIVE DESIGN STRENGTHS. CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING STRUCTURAL STABILITY DURING ERECTION AND CONSTRUCTION. TEMPORARY BRACING SYSTEMS ARE NOT TO BE REMOVED UNTIL STRUCTURAL WORK IS COMPLETE.
7. PROVIDE ADEQUATE SHORING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND AND UNBALANCED LOADS DUE TO CONSTRUCTION. DO NOT BACKFILL UNTIL CONCRETE HAS CURED 14 DAYS.
9. FOUNDATIONS
- A. FOUNDATIONS ARE DESIGNED TO BEAR ON 2000 PSF FOR STRIP FOOTINGS ON SOIL AND 2000 PSF FOR SPREAD FOOTINGS ON SOIL PER GEOTECH REPORT # AOG 21-126E-1 BY ALPHA OMEGA GEOTECHS.
- B. CONTRACTOR SHALL REMOVE EXISTING FOOTINGS AND FOUNDATIONS THAT ARE LOCATED WITHIN THE FOOTPRINT OF THE NEW BUILDING.
- C. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE GEOTECHNICAL REPORT OR WHEN DIFFERENT BEARING MATERIAL IS EVIDENT AND THERE IS A QUESTION OF BEARING CAPACITY.
10. CONCRETE
- A. CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI-301, 305, 306, 315, 318, AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS.
- B. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:
1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS: 4000 PSI (w/c MAX 0.45)
  2. SLAB ON GRADE: 4000 PSI (w/c MAX 0.42)
  3. ELEVATED COMPOSITE SLAB: 4000 PSI (w/c MAX 0.42)
  4. REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE.
- C. SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH.
- D. IT IS THE INTENT OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PLASTIC SHRINKAGE CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABILITY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL ADMIXTURES.
- E. CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES.
- F. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-145) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY IF ADMIXTURE IS TO BE ADDED IN THE FIELD IS SHALL BE ADDED THROUGH THE USE OF AN EXTERNAL MEASURING DEVICE (I.E. 5 GALLON BUCKET).
- G. CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTAIN 6% (+/- 1%) ENTRAINED AIR BY VOLUME.
- H. CHAMFER ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE.
- I. ALL CONTROL JOINTS IN WALLS SHALL BE PLACED AT 20'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. LOCATE JOINTS BESIDE PIERS INTEGRAL WITH WALLS, NEAR CORNERS, AND IN CONCEALED LOCATIONS WHERE POSSIBLE. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CONTROL JOINTS AT CONTRACTOR'S DISCRETION. COORDINATE LOCATION OF CONTROL JOINTS WITH ARCHITECT.
- J. PRIOR TO PLACING CONCRETE IN ANY LOCATION, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THOROUGHLY CHECKED AND COORDINATED ALL DIMENSIONS, ELEVATIONS, OPENINGS, RECESS, AND BLOCKOUTS AS SHOWN ON ANY CONTRACT DRAWINGS. IN THE EVENT ERRORS, CONFLICTS, OR OMISSIONS EXIST, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ARCHITECT OR ENGINEER FOR NECESSARY CORRECTIVE ACTION.
- M. EMBEDDED ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR PRIOR TO PLACING CONCRETE.
- N. ANCHOR RODS AND ANCHOR BOLTS SHALL BE HELD IN PLACE WITH A RIGID TEMPLATE
- O. HORIZONTAL JOINTS BEYOND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUCTED WITHOUT THE APPROVAL OF THE ARCHITECT AND ENGINEER.

11. REINFORCING STEEL
- A. ALL REINFORCING SHALL BE ASTM A615 GRADE 60, EXCEPT WELDED REINFORCING WHICH SHALL BE ASTM A706 GRADE 60.
- B. ALL WELDED WIRE FABRIC SHALL BE ASTM A82 COLD DRAWN WIRE.
- C. ALL ACCESSORIES FOR SUPPORTING REINFORCING SHALL BE GALVANIZED OR HAVE PLASTIC-COATED FEET.
- D. PROVIDE CORNER BARS AT THE EXTERIOR FACE OF ALL WALL AND FOOTING CORNERS EQUAL TO HORIZONTAL BARS.
- E. REINFORCING SHALL BE DETAILED, FABRICATED, PLACED, AND SUPPORTED IN ACCORDANCE WITH ACI 315, LATEST APPLICABLE EDITION.
- F. STANDARD COVERAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.
1. PERMANENTLY EXPOSED TO WEATHER
    - A. CAST AGAINST EARTH 3"
    - B. IN CONTACT WITH WATER 3"
    - C. FORMED 2"
  2. NOT EXPOSED TO EARTH OR WEATHER
    - A. SLABS AND WALLS 3/4"
    - B. BEAMS AND COLUMNS 1 1/2"
- G. SPLICE LENGTH
1. 3000 PSI CONCRETE
    - A. NON-COATED 55 db (BAR DIAMETER)
    - B. EPOXY COATED 83 db
  2. 4000 PSI CONCRETE
    - A. NON-COATED 48 db
    - B. EPOXY COATED 72 db
  3. 5000 PSI CONCRETE
    - A. NON-COATED 43 db
    - B. EPOXY COATED 64 db
- H. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN AND NOTED ON THE CONTRACT DRAWINGS OR PERMITTED BY THE ENGINEER OF RECORD.
- I. ALL REINFORCEMENT AND EMBEDDED ITEMS INCLUDING PLATES AND ANCHOR RODS SHALL BE ACCURATELY PLACED, ADEQUATELY SUPPORTED, AND SECURED AGAINST DISPLACEMENT BEFORE CONCRETE IS PLACED. NEITHER REINFORCEMENT NOR EMBEDDED ITEMS SHALL BE PLACED INTO FRESHLY PLACED CONCRETE UNLESS APPROVED BY THE ENGINEER OF RECORD.
12. MASONRY
- A. MASONRY UNIT COMPRESSIVE STRENGTH ( $f'_m$ ) = 1500 PSI. MORTAR - TYPE S.
- B. LINTELS SHALL BE STEEL BEAMS OR MASONRY BOND BEAMS AS SHOWN ON THE PLANS. OPENINGS LESS THAN 4'-0" WIDE SHALL BE A BOND BEAM WITH (2) #5 CONTINUOUS EXTENDING PAST OPENINGS A MIN. OF 2'-0".
- C. GROUT ALL REINFORCED CELLS AND CELLS BELOW GRADE SOLID.
- D. PLACE A BOND BEAM WITH (2) #5 CONTINUOUS AT THE TOP OF WALLS & 8'-0" O.C. VERTICALLY.
- E. REINFORCE 8" CMU WALLS WITH #5 @ 32" O.C. VERT. AND 12" CMU WALLS WITH #5 @ 24" O.C. VERT. UNLESS NOTED OTHERWISE. IN ADDITION, REINFORCE WALL CORNERS AND JAMBS OF WINDOWS AND DOORS WITH (2) #5 EXTENDING PAST OPENINGS A MIN. OF 2'-0".
- F. BRACE THE TOPS OF PARTITION WALLS TO THE UNDERSIDE OF DECK.
13. STRUCTURAL STEEL
- A. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST APPLICABLE EDITION AND AISC CODE OF STANDARD PRACTICE.
- B. ALL STRUCTURAL STEEL FOR WIDE FLANGE SHALL BE A992 GRADE 50 UNLESS NOTED OTHERWISE. ALL ANGLES, PLATES AND CHANNELS SHALL BE ASTM A36 UNLESS NOTED OTHERWISE. ALL RECTANGULAR AND ROUND HSS SHAPES SHALL BE ASTM A500, GRADE B.
- C. ALL BOLTS SHALL BE 3/4" Ø A-325 BOLTS WITH HEAVY HEX HEADS UNLESS NOTED OTHERWISE. ALL CONNECTIONS SHALL HAVE A MINIMUM OF (2) 3/4" Ø BOLTS, BEARING TYPE CONNECTIONS ONLY.
- D. ALL STRUCTURAL STEEL WELDS IN THE SHOP OR IN THE FIELD SHALL BE PERFORMED BY A QUALIFIED WELDER AND SHALL CONFORM TO THE CURRENT REQUIREMENTS OF A.W.S.
- E. SHOP WELDED AND FIELD BOLTED CONNECTIONS ARE PREFERRED UNLESS NOTED OTHERWISE.
- F. ALL STEEL EXPOSED TO THE EXTERIOR, EXHIBITS, POOLS, AND LSS AREAS SHALL BE HOT-DIP GALVANIZED AND PAINTED PER ARCHITECT UNLESS NOTED OTHERWISE.
- G. THE CONTRACTOR SHALL PROVIDE SHELF ANGLES, GLASS SUPPORTS, LINTELS, AND OTHER MISC. STEEL AS SHOWN ON THESE DRAWINGS AS REQUIRED TO PROVIDE SUPPORT (STABILIZATION) AROUND AND THROUGHOUT THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISC. STEEL DETAILS.
14. COLD-FORMED STEEL
- A. ALL LIGHT GAGE METAL FRAMING AND CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AISI (SPECIFICATION FOR THE SIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS) (AND NAAMM ML/SFA540 LIGHTWEIGHT STEEL FRAMING SYSTEMS MANUAL)
- B. ALL LIGHT GAGE METAL FRAMING SHOWN IN THESE DOCUMENTS SHALL BE IN ACCORDANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
- C. ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A-655 STEEL MATERIAL AND SHALL HAVE A MINIMUM YIELD STRESS OF 33 KSI.
- D. WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.3 - LATEST EDITION, STRUCTURAL WELDING CODE, SHEET STEEL.
- E. SUGGESTED WELD METAL AND PROCESS FOR SHOP WELDING ARE, 70 KSI WELD METAL STRENGTH, SUGGESTED METHODS FOR FIELD WELDING, 1/8" E70XX ELECTRODE-SMAW OR GASLESS M16.
- F. MINIMUM WELD THROAT THICKNESS (t) MUST MATCH OR EXCEED THE BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE
- G. WEB STIFFENERS FOR STUD JOISTS SHALL BE PROVIDED AT ALL REACTION POINTS, INTERMEDIATE CONCENTRATED LOADS, AND WHERE INDICATED ON THE DRAWINGS.
- H. SEQUENCING OF WELDS SHALL BE SO AS TO AVOID DISTORTION OF MEMBERS.
- I. REPLACE ALL MEMBER WHEN BURN THROUGH DURING WELDING.
- J. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED ON ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.
- K. NO SPLICES IN STUDS, JOISTS, OR OTHER LOAD CARRYING MEMBERS MAY BE MADE WITHOUT PRIOR ENGINEERING REVIEW AND SPECIFIC DETAILS FOR ANY SUCH SPLICE.
- L. TOP AND BOTTOM TRACKS TO MATCH GAGE OF STUD.
- INSTALL CONTINUOUS HORIZONTAL BRIDGING IN STUD SYSTEM, SPACED (VERTICAL DISTANCE) NOT TO EXCEED 4'-0" O.C. WELD OR FASTEN TO EACH STUD.
15. POST CONSTRUCTION ANCHORS
- A. POST INSTALLED ANCHORS ARE NOT TO BE SUBSTITUTED FOR ANCHORS SHOWN ON THE DRAWINGS. IF CAST IN PLACE ANCHOR IS DETERMINED TO BE OUT OF TOLERANCE OR OMITTED, CONTRACTOR MUST GENERATE A REQUEST FOR INFORMATION IN REGARDS TO THE SOLUTION. THIS SECTION IS NOT MEANT AS A DIRECT SUBSTITUTION FOR CAST IN PLACE ANCHORS.
- B. MECHANICAL ANCHORS SHALL BE SIMPSON TITEN HD ANCHORS UNLESS NOTED OTHERWISE. MINIMUM EMBEDMENT FOR ANCHORS ARE AS FOLLOWS UNLESS NOTED OTHERWISE.
1. 1/2" Ø ANCHORS 5 3/4"
  2. 5/8" Ø ANCHORS 5 3/4"
  3. 3/4" Ø ANCHORS 5 3/4"
- C. EPOXY ANCHORS IN HOLLOW MASONRY SHALL USE HILTI HY 20 ADHESIVE WITH SCREEN TUBES UNLESS NOTED OTHERWISE.
- D. EPOXY ANCHORS IN CONCRETE SHALL USE HILTI HY 150 ADHESIVE. MINIMUM EMBEDMENT FOR ANCHORS ARE AS FOLLOWS UNLESS NOTED OTHERWISE.
1. 1/2" Ø ANCHORS 4 1/4"
  2. 5/8" Ø ANCHORS 5"
  3. 3/4" Ø ANCHORS 6 5/8"
  4. 1" Ø ANCHORS 8 1/4"
- E. EMBEDMENT DEPTH SHALL BE DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE.
- F. OBSERVATION AND VERIFICATION OF EMBEDMENT HOLE CLEANING, DEPTH, AND ANCHOR INSTALLATION IS REQUIRED FOR ALL EPOXY ANCHORS.
- G. EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, CURRENT WITH THE REQUIREMENTS OF THE PROJECT.

16. STRUCTURAL ENGINEER SITE OBSERVATIONS
- A. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCES.
- B. THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR AN OTHER PERSONS PERFORMING ANY OF THE WORK, OR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- C. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF LEIGH & O'KANE L.L.C. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS AND DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
17. SUBMITTALS
- A. ALL SHOP DRAWINGS AND SUBMITTALS MUST BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL. ENGINEER'S REVIEW OF SHOP DRAWINGS IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF COMPONENTS AND MATERIALS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE DESIGN DRAWINGS, QUANTITIES, DIMENSIONAL ERRORS, OR OMISSIONS IN THE SHOP DRAWINGS.
- B. ALL SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS AND SHALL NOT BE REPRODUCTIONS OF THESE CONTRACT DOCUMENTS.
- C. SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF EACH MEMBER AND ITS CONNECTIONS. DETAIL DRAWINGS ARE TO BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI FOR THE FOLLOWING ITEMS.
1. LIGHT GAGE METAL FRAMING
  2. COLD FORMED BAR JOISTS
- D. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING ITEMS.
1. CONCRETE MIX DESIGN AND MATERIALS
  2. CONCRETE REINFORCING STEEL
  3. MASONRY REINFORCING STEEL
  4. STRUCTURAL STEEL
  5. LIGHT GAGE METAL FRAMING
  6. COLD FORMED ROOF, FLOOR JOISTS AND JOIST GIRDERS
- E. PROVIDE A FINAL, "FOR CONSTRUCTION" SET OF ALL SHOP DRAWINGS TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION OF THOSE ITEMS.
18. SPECIAL INSPECTIONS
- A. THE FOLLOWING MINIMUM ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE BUILDING CODE. LOCAL CITY MAY REQUIRE ADDITIONAL SPECIAL INSPECTIONS.
1. CONCRETE PLACING
  2. CONCRETE REINFORCING
  3. STEEL BOLTING
  4. STEEL WELDING
  5. BOLTS EMBEDDED IN CONCRETE / POST-INSTALLED ANCHORS
  6. ANCHOR RODS
  7. ROOF DIAPHRAGM ATTACHMENT
  8. MASONRY
  9. SOIL VERIFICATION
  10. STEEL FRAME
- B. THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.
- C. STRUCTURAL OBSERVATIONS SHALL BE PROVIDED DURING CONSTRUCTION OF THE SHELTER BY A REGISTERED PROFESSIONAL.

HATCH PATTERN KEY	
	= CONCRETE IN SECTION
	= EARTH IN SECTION
	= EPOXY IN SECTION
	= EXISTING IN PLAN AND SECTION
	= GRANULAR FILL IN SECTION
	= GRATING IN PLAN AND SECTION
	= GROUT IN SECTION
	= INSULATION IN SECTION
	= OPENINGS IN PLAN
	= PLYWOOD IN SECTION
	= SNOW DRIFT LOADING IN PLAN
	= STEEL IN SECTION
	= TOPPING IN SECTION
	= WOOD END GRAIN IN SECTION
	= WOOD FACE GRAIN IN SECTION

#### STANDARD ABBREVIATIONS

ALT.	ALTERNATE
A.B.	ANCHOR BOLT
ARCH.	ARCHITECT
@	AT
BM.	BEAM
BOT.	BOTTOM
B.O.	BOTTOM OF
BLDG.	BUILDING
CL.	CENTER LINE
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
C.J.	CONTROL JOINT
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DWG(S)	DRAWING(S)
EA	EACH
ELEV.	ELEVATION
EL.	ELEVATION
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXIST.	EXISTING
EXT.	EXTERIOR
F.S.	FAR SIDE
FIN.	FINISH
FLR.	FLOOR
FTG.	FOOTING
FOUND.	FOUNDATION
GALV.	GALVANIZED
GYP.	GYPSUM
H.S.	HEADED STUD
HI	HIGH
HORIZ.	HORIZONTAL
INSUL.	INSULATION
INT.	INTERIOR
LOC.	LOCATION
LLH	LONG LEG HORIZONTAL
LLO	LONG LEG OUT
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LO	LOW
MSRY.	MASONRY
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MIR.	MIRRORED
N.S.	NEAR SIDE
N.A.	NOT APPLICABLE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPNG.	OPENING
PL.	PLATE
R.	RADIUS
RE.	REFERENCE
REINF.	REINFORCING
REQ'D	REQUIRED
SCHED.	SCHEDULE
SECT.	SECTION
SHEET	SHEET
SIM.	SIMILAR
SQ.	SQUARE
S.S.	STAINLESS STEEL
STL.	STEEL
T&B	TOP & BOTTOM
T.O.	TOP OF
TRANS.	TRANSVERSE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W/	WITH
W/O	WITHOUT



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FIRE STATION #5  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

REVISONS:

#	Description	Date
1	ASB 01	11/16/2022



2-1-2023

PROJECT NO.: 18225R21001  
DATE: 02/01/2023  
DRAWN BY: JMB  
CHKD BY: WNH

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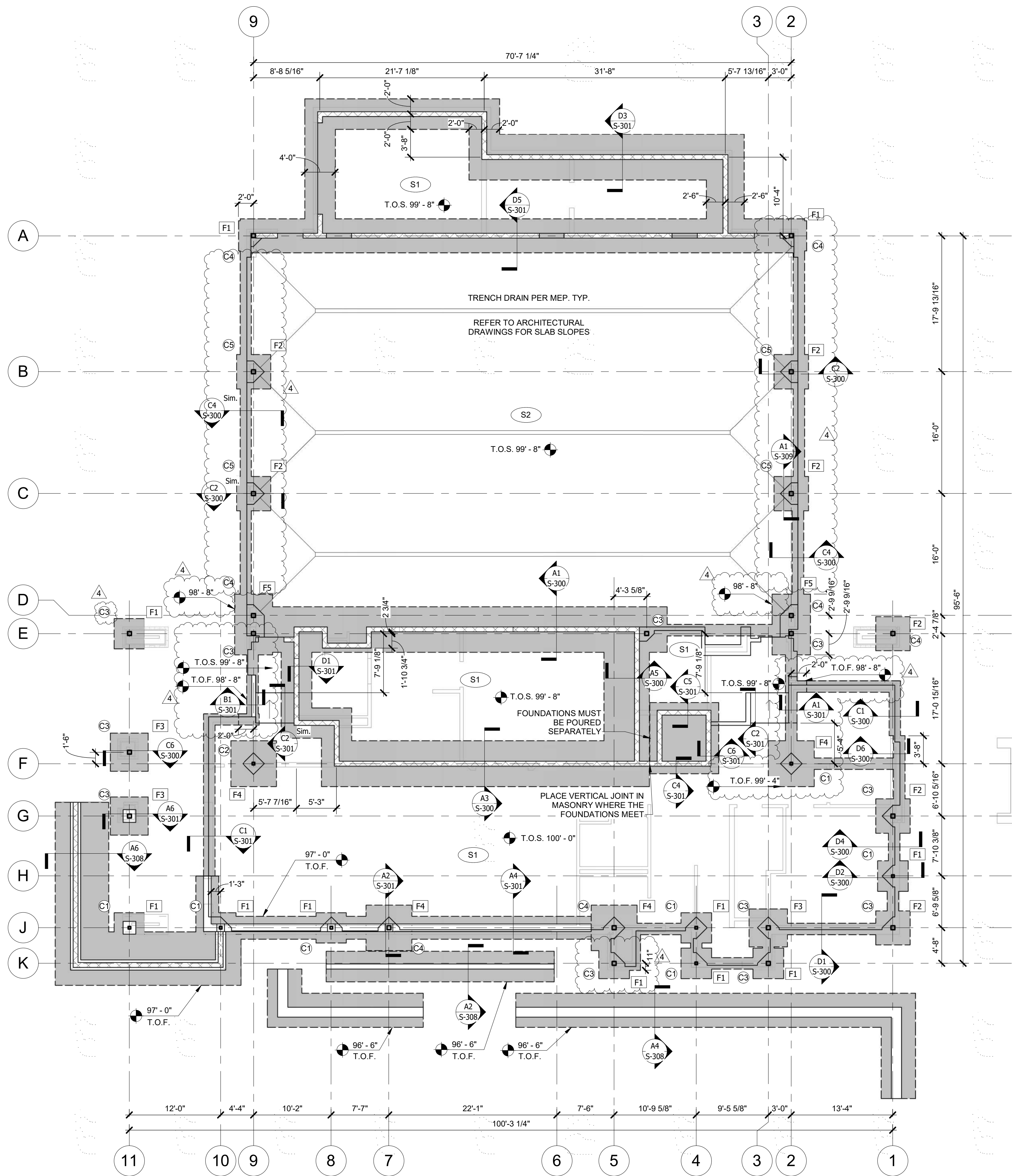
#### GENERAL NOTES

S-001

PLEASE CONSIDER THE ENVIRONMENT  
BEFORE PRINTING THIS



FILE PATH: BM 360/18225R21001\_LeesSummitFireStation\_#4 and #5LSMO\_FIRE STATIONS\_STRUCT\_F55.vt



A1 APP BAY FF  
1/8" = 1'-0"

#### FOUNDATION PLAN NOTES:

1. TOP OF CONCRETE SLAB ELEVATION = 100'-0" U.N.O.
2. SLAB REINFORCEMENT PER SCHEDULE
3. SLAB CONTROL AND CONSTRUCTION JOINTS PER TYPICAL DETAILS. CONSTRUCTION JOINTS MAY BE SUBSTITUTED FOR CONTROL JOINTS AT THE CONTRACTOR'S DISCRETION.
4. ISOLATION JOINTS PER DETAIL S500
5. FOOTING STEPS PER DETAIL S500
6. CONTRACTOR TO COORDINATE ALL FLOOR AND SLAB PENETRATIONS WITH ALL OTHER DISCIPLINES.
7. DURING INSTALLATION OF ALL POST CONSTRUCTION ANCHORS, CARE MUST BE TAKEN TO AVOID ALL REINFORCING.
8. REFER TO ARCHITECTURAL FOR NON-LOAD BEARING WALL LOCATIONS.
9. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR RETAINING WALL AND RAMP LOCATION AND ELEVATION INFORMATION.
10. GENERATOR PADS TO BE 12" THICK CONCRETE W/ #5 @ 8" O.C. EACH WAY TOP AND BOTTOM, REFER TO MANUFACTURER'S INFORMATION FOR REQUIRED PAD SIZE. REFER TO CIVIL & MEP DRAWINGS FOR LOCATIONS.

#### STRUCTURAL FOUNDATION SCHEDULE

MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT
F1	4' - 0"	4' - 0"	2' - 4"	#6 @ 8" O.C. EW TB
F2	4' - 6"	4' - 6"	2' - 4"	#6 @ 8" O.C. EW TB
F3	5' - 0"	5' - 0"	2' - 4"	#6 @ 8" O.C. EW TB
F4	6' - 0"	6' - 0"	2' - 4"	#6 @ 8" O.C. EW TB
F5	8' - 0"	5' - 0"	2' - 4"	#6 @ 8" O.C. EW TB

#### STRUCTURAL COLUMN SCHEDULE

MARK	COLUMN
C1	HSS4X4X3/8
C2	HSS4X4X1/2
C3	HSS6X6X3/8
C4	HSS6X6X1/2
C5	HSS6X6X5/8

#### SLAB SCHEDULE

MARK	TYPE	REINFORCEMENT
S1	4" SLAB ON GRADE	#4 @ 16" O.C. E.W.
S2	8" SLAB ON GRADE	#6 @ 18" O.C. E.W.
S3	12" STORM SHELTER LID	#5 @ 8" O.C. T/B E.W.



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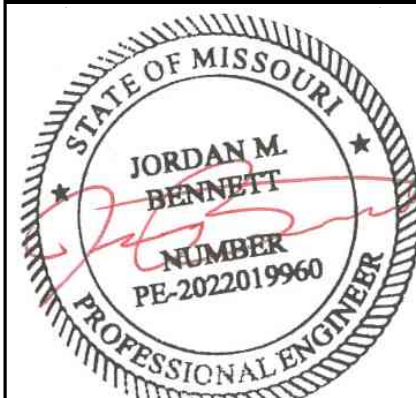
**FIRE STATION #5**  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

#### REVISIONS:

#	Description	Date
4	Rev 04 - ASB04	02/01/2023



2-1-2023

PROJECT NO: 18225R21001

DATE: 02/01/2023

DRAWN BY: JMB

CHKD BY: WNH

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**FOUNDATION  
PLAN**

**S-100**

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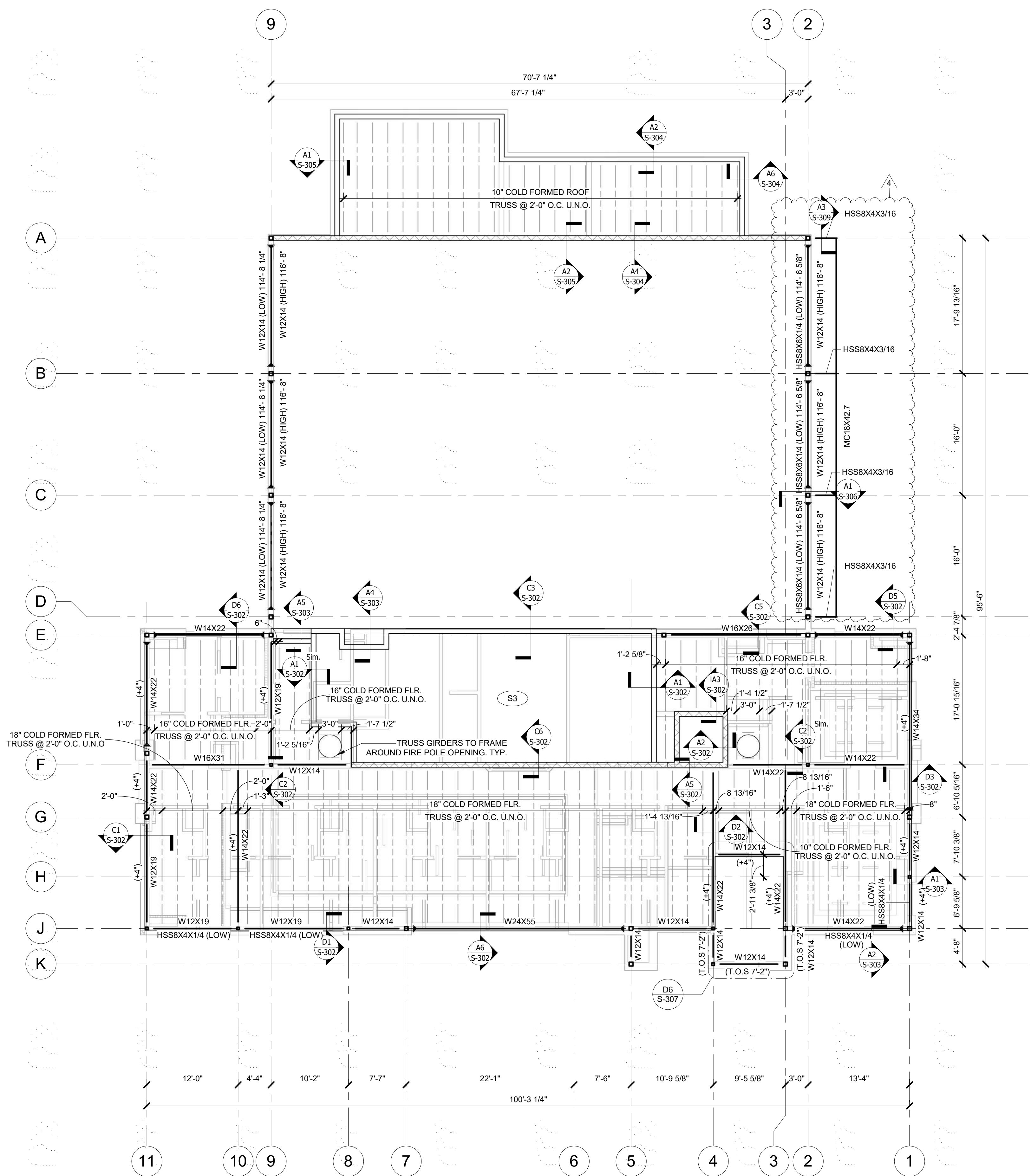
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D

C

B

A



**A1** LEVEL 2 FRAMING PLAN  
1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. ROOF DECK TO BE 1.58 20 GA. DECK FASTENED IN A 3/4 PATTERN USING # 10 SCREWS
2. OPENINGS IN THE ROOF DECK AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
3. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE PLANS.
4. NON-LOAD BEARING STUD WALLS SHALL HAVE 1" GAP BETWEEN TOP OF STUD AND BOTTOM OF ROOF FRAMING
5. COLD FORMED ROOF JOISTS JOIST SEATS ARE 4" DEEP U.N.O.
6. COLD FORMED JOISTS TO BE 16 GA. METAL OR THICKER AS REQUIRED BY DESIGN.
7. SPECIFIED TRUSS SPACINGS ARE A MAXIMUM. TRUSSES CAN BE SHIFTED AS NEEDED AS LONG AS THE MAX SPACING IS UPHELD.

FLOOR FRAMING PLAN NOTES:

1. T.O.S. 112'-1"
2. FLOOR DECK 0.6C 22GA. METAL DECK W/ 3" TOTAL DEPTH CONCRETE FASTENED TO SUPPORTS USING #10 SCREWS IN A 3/4 PATTERN W/ (3) # 10 SCREW SIDE LAP FASTENERS PER SPAN. DECK MUST SPAN A MIN. OF 2 SPANS. REINFORCE CONCRETE W/ WWF 6X6 - W1.4XW1.4
3. OPENINGS IN FLOORS AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
4. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
5. NON-LOAD BEARING WALLS SHALL HAVE 1" GAP BETWEEN TOP OF STUD AND BOTTOM OF FLOOR FRAMING.
6. COLD FORMED FLOOR JOISTS JOIST SEATS ARE 4" DEEP U.N.O.
7. COLD FORMED JOISTS TO BE 16 GA. METAL OR THICKER AS REQUIRED BY DESIGN.
8. SPECIFIED TRUSS SPACINGS ARE A MAXIMUM. TRUSSES CAN BE SHIFTED AS NEEDED AS LONG AS THE MAX SPACING IS UPHELD.

SLAB SCHEDULE		
MARK	TYPE	REINFORCEMENT
S1	4" SLAB ON GRADE	#4 @ 16" O.C. E.W.
S2	8" SLAB ON GRADE	#6 @ 18" O.C. E.W.
S3	12" STORM SHELTER LID	#5 @ 8" O.C. T/B E.W.



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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:		
#	Description	Date
4	Rev 04 - ASB04	02/01/2023



PROJECT NO:	18225R21001
DATE:	02/01/2023
DRAWN BY:	JMB
CHKD BY:	WNH

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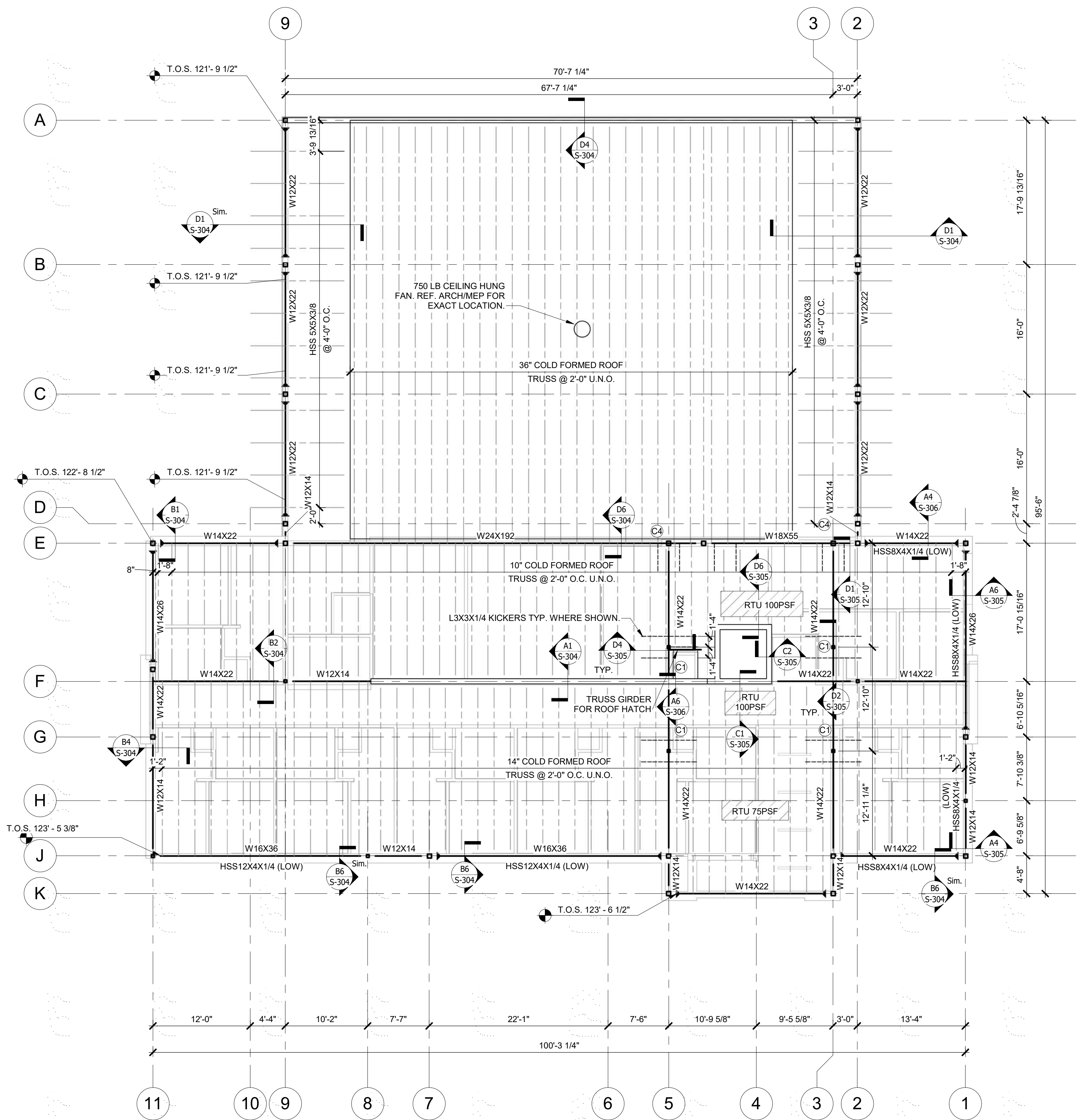
LEVEL 2  
FRAMING PLAN

**S-101**

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- ROOF FRAMING PLAN NOTES:
1. ROOF DECK TO BE 1.5B 20 GA. DECK FASTENED IN A 36/4 PATTERN USING # 10 SCREWS
  2. OPENINGS IN THE ROOF DECK AND WALLS TO BE COORDINATED WITH ALL OTHER DISCIPLINES.
  3. REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE PLANS.
  4. NON-LOAD BEARING STUD WALLS SHALL HAVE 1" GAP BETWEEN TOP OF STUD AND BOTTOM OF ROOF FRAMING
  5. COLD FORMED ROOF JOISTS JOIST SEATS ARE 4" DEEP U.N.O.
  6. COLD FORMED JOISTS TO BE 16 GA. METAL OR THICKER AS REQUIRED BY DESIGN.
  7. SPECIFIED TRUSS SPACINGS ARE A MAXIMUM. TRUSSES CAN BE SHIFTED AS NEEDED AS LONG AS THE MAX SPACING IS UPHELD.

STRUCTURAL COLUMN SCHEDULE	
MARK	COLUMN
C1	HSS4X4X3/8
C2	HSS4X4X1/2
C3	HSS6X6X3/8
C4	HSS6X6X1/2
C5	HSS6X6X5/8

A1 LOW ROOF FRAMING  
1/8" = 1'-0"



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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

#	Description	Date
1	ASB 01	11/16/2022



2-1-2023

PROJECT NO:	18225R21001
DATE:	02/01/2023
DRAWN BY:	JMB
CHKD BY:	WNH

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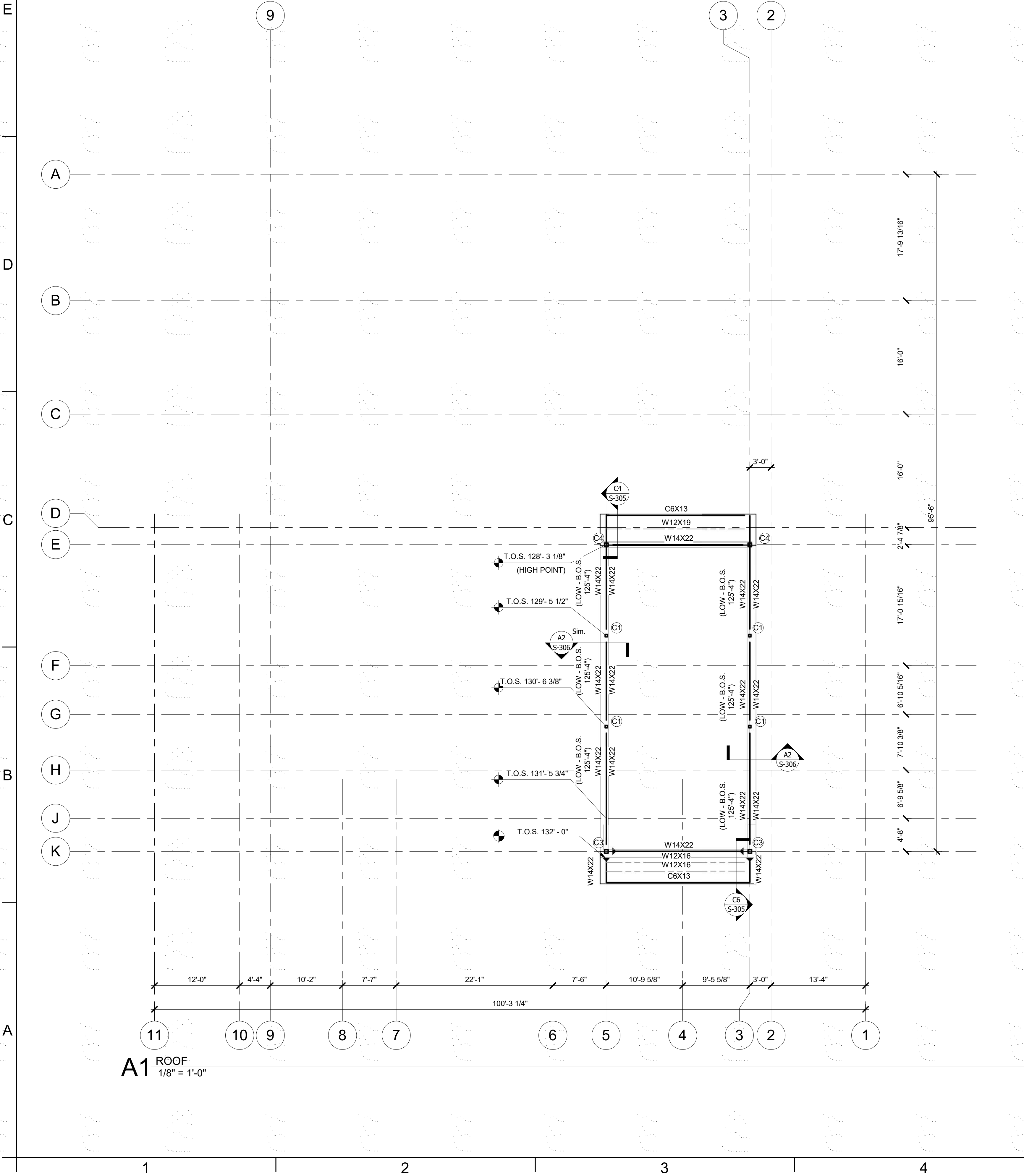
**LOW ROOF  
FRAMING PLAN**

**S-103**

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ROOF FRAMING PLAN NOTES:

1. ROOF DECK TO BE 1.58 20 GA. DECK FASTENED IN A 3/4 PATTERN USING # 10 SCREWS
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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

REVISIONS:

#	Description	Date
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2-1-2023

PROJECT NO: 18225R21001

DATE: 02/01/2023

DRAWN BY: JMB

CHKD BY: WNH

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**HIGH ROOF  
FRAMING PLAN**

**S-104**

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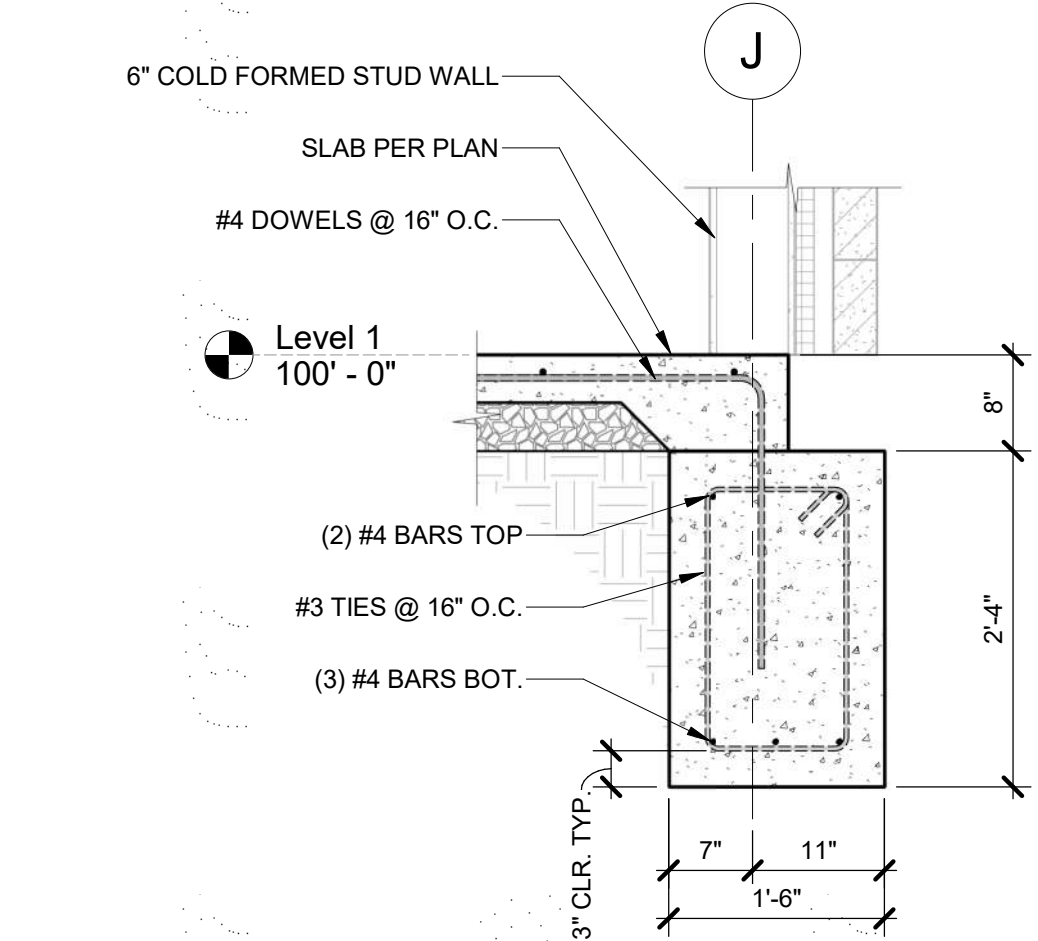
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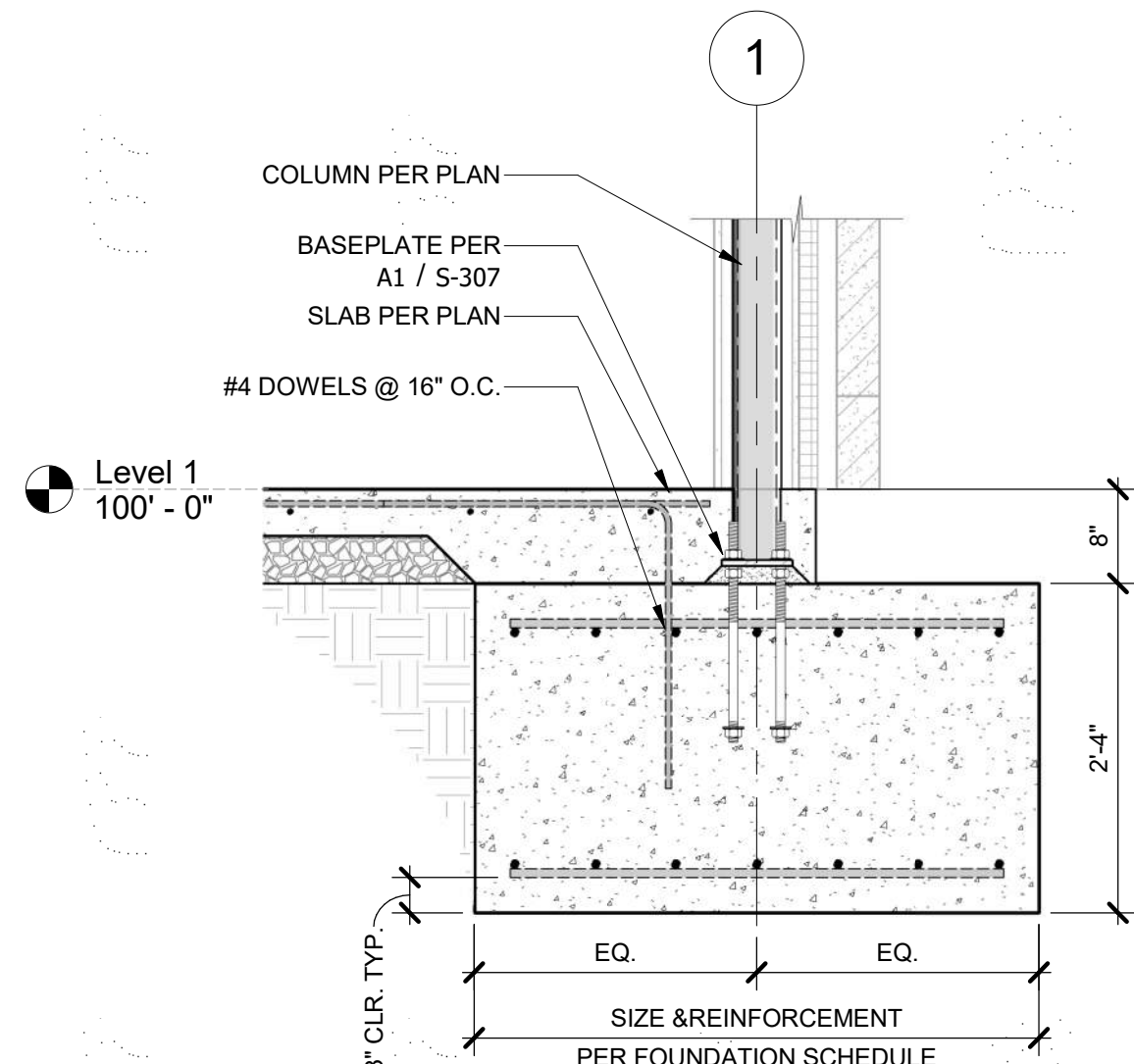
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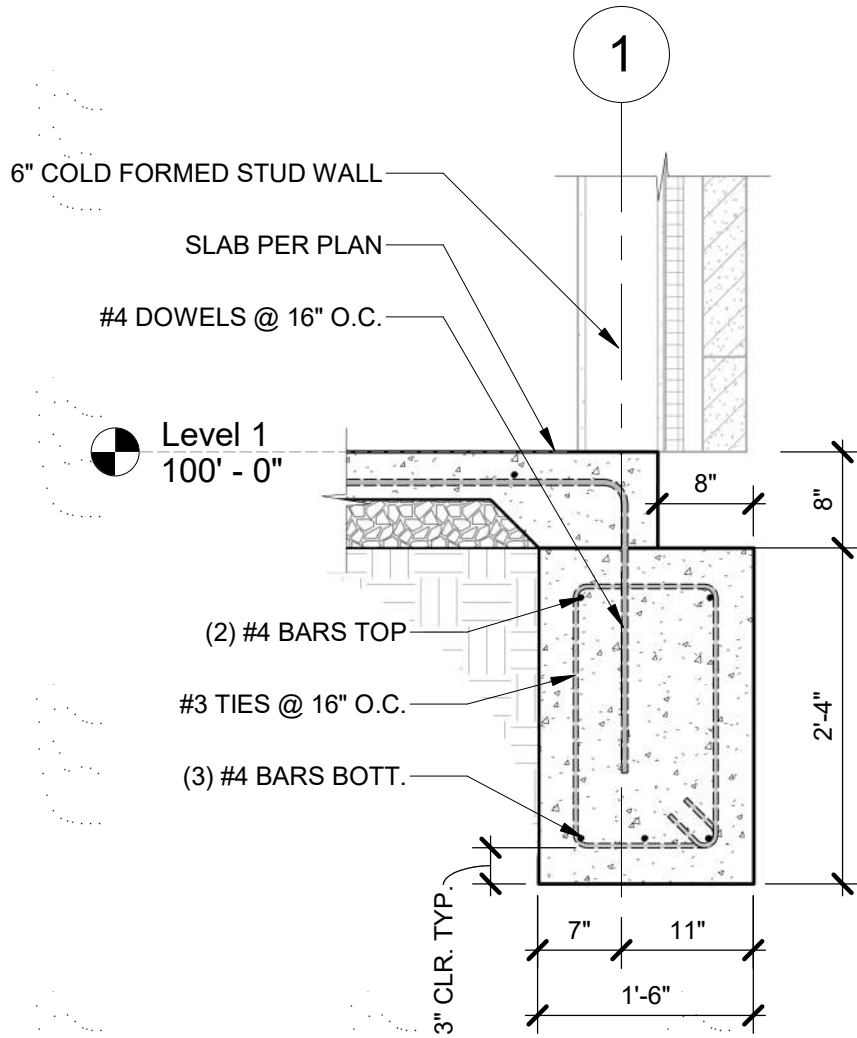
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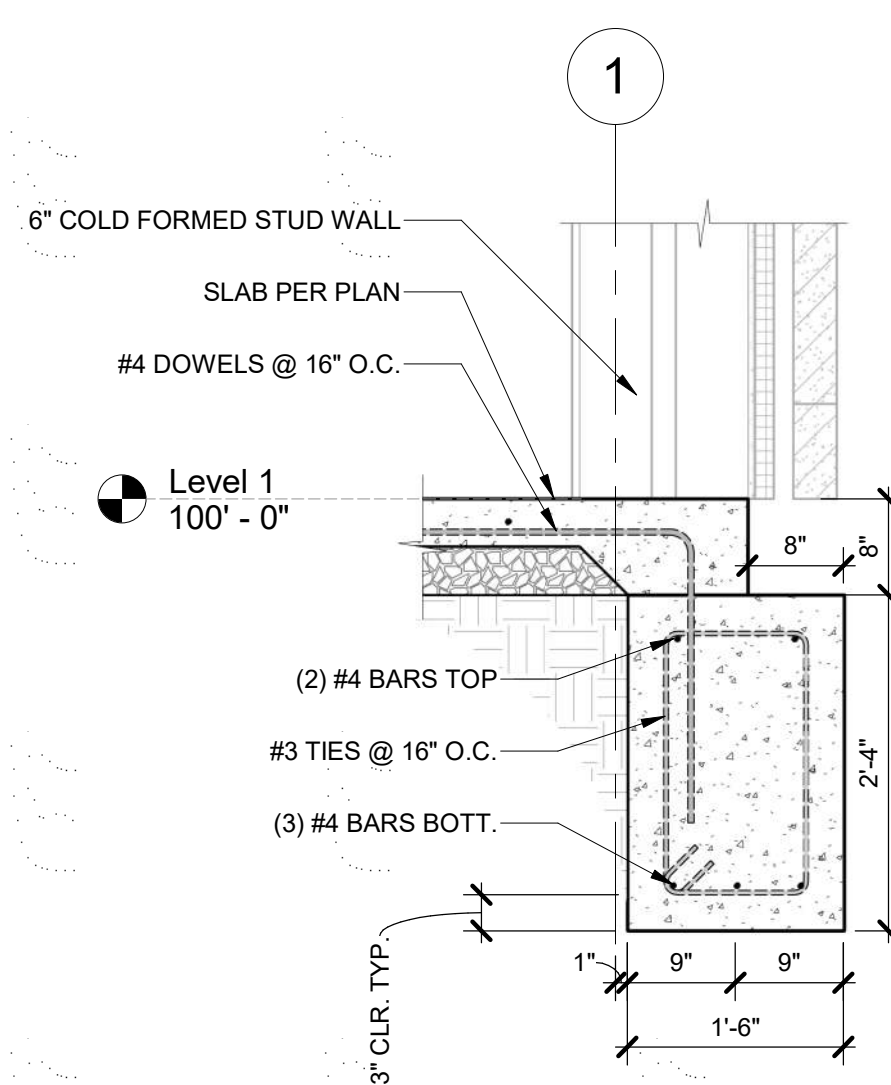
**D1 SOUTH TRENCH FOUNDATION**  
3/4" = 1'-0"



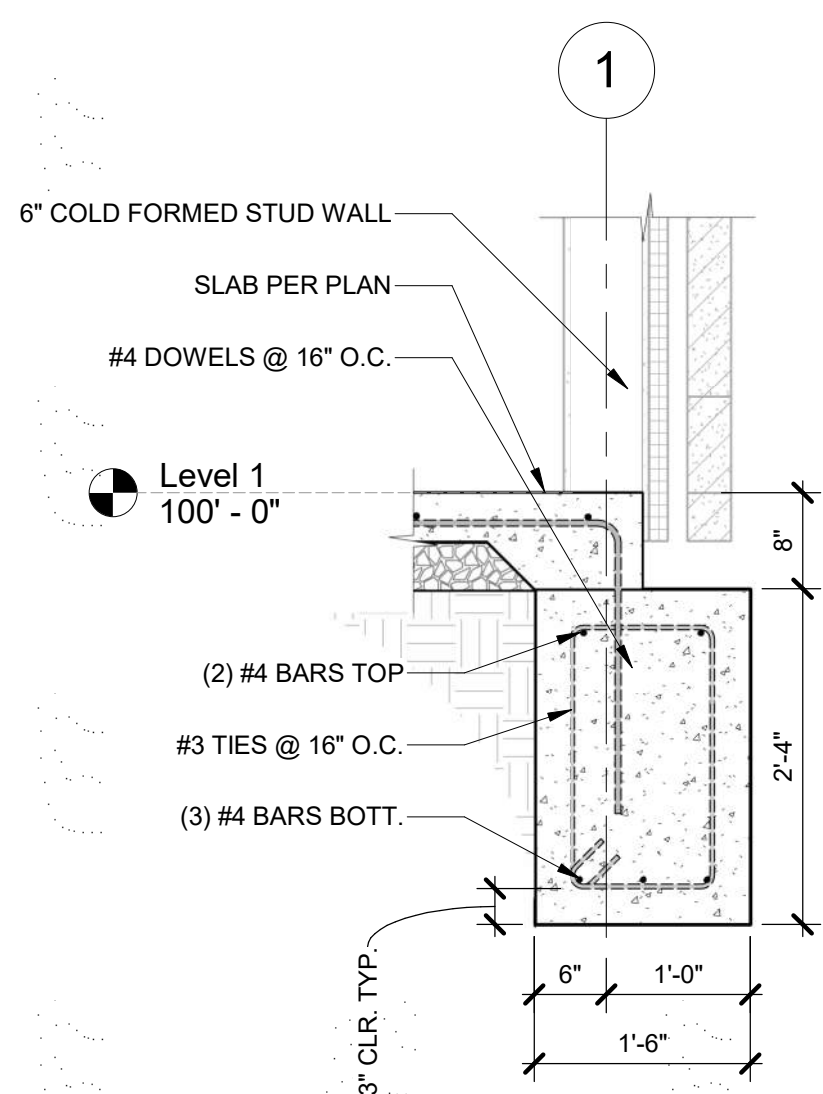
**D2 EXTERIOR ISOLATED FOUNDATION**  
3/4" = 1'-0"



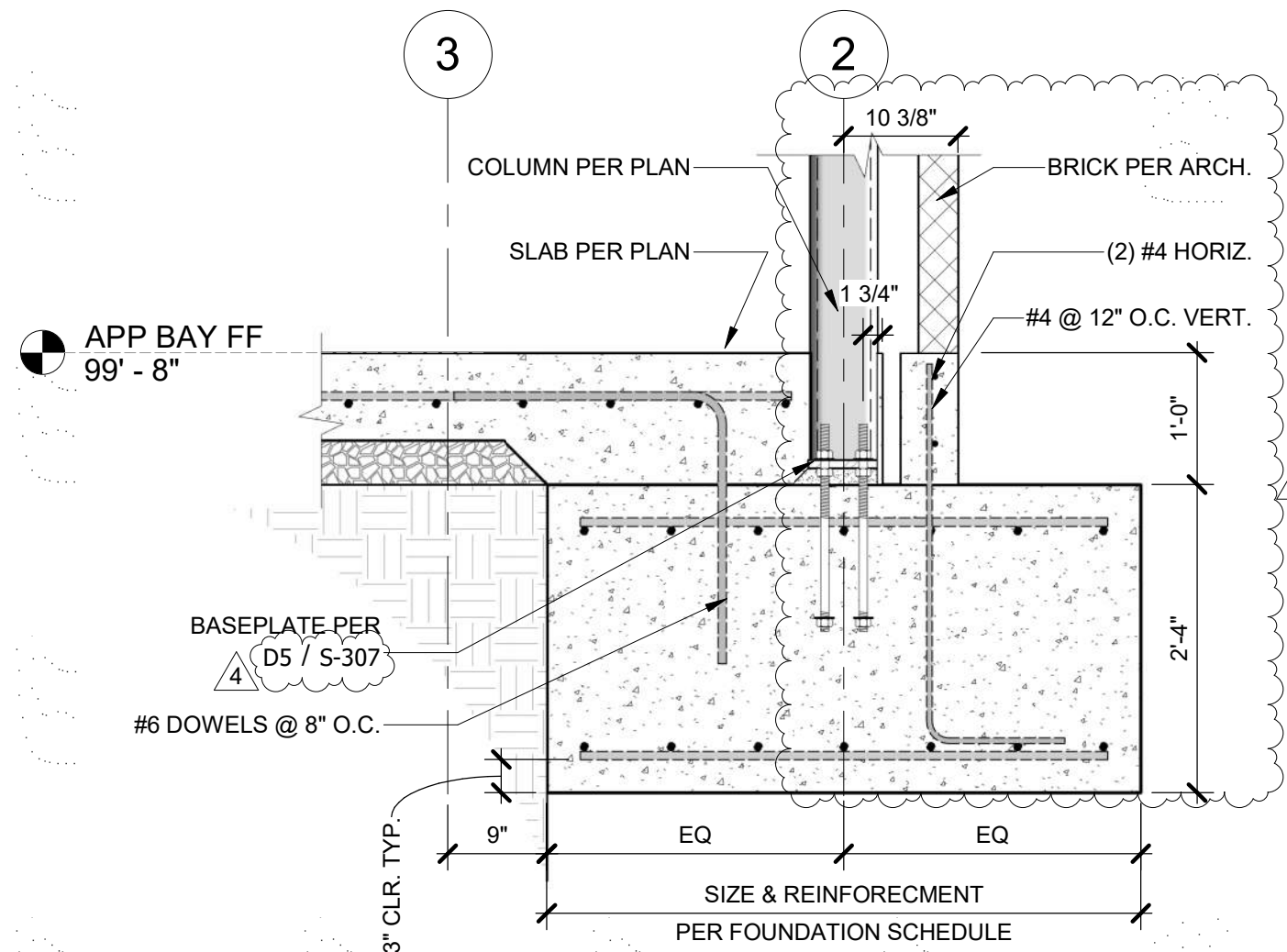
**D4 EAST TRENCH FOUNDATION BTWN J & G**  
3/4" = 1'-0"



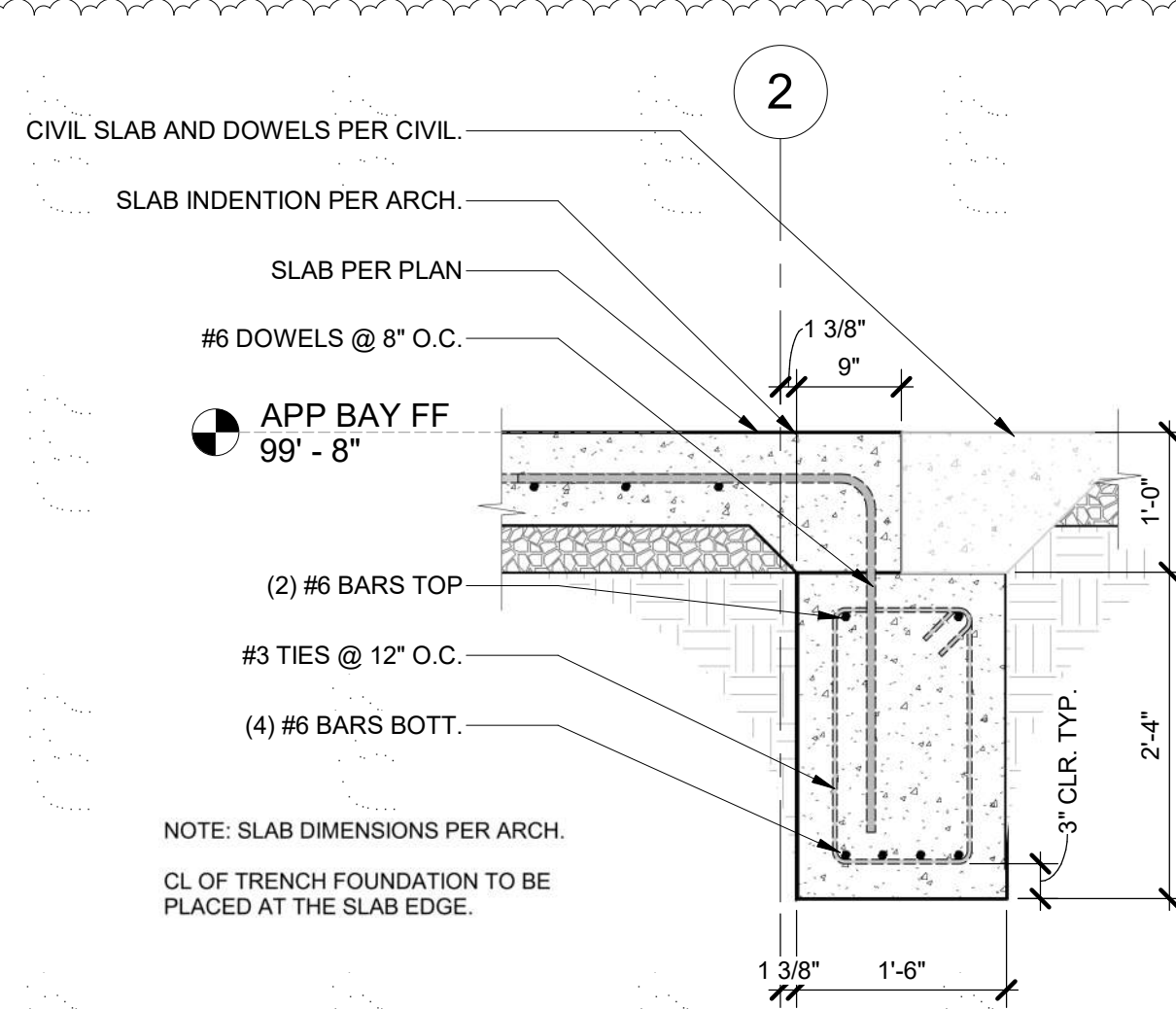
**D6 EAST TRENCH FOUNDATION BTWN G & F**  
3/4" = 1'-0"



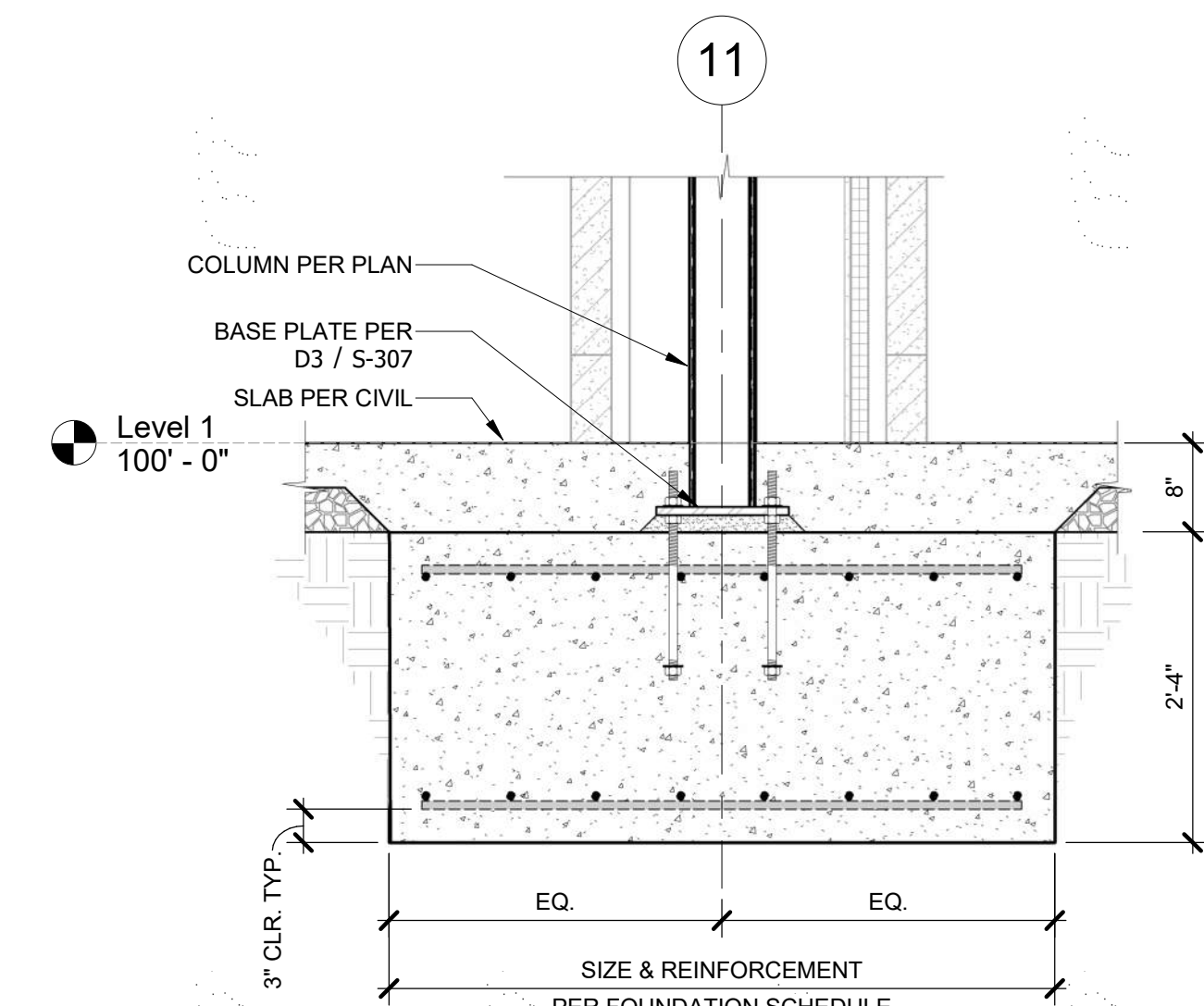
**C1 EAST TRENCH FOUNDATION BTWN F & E**  
3/4" = 1'-0"



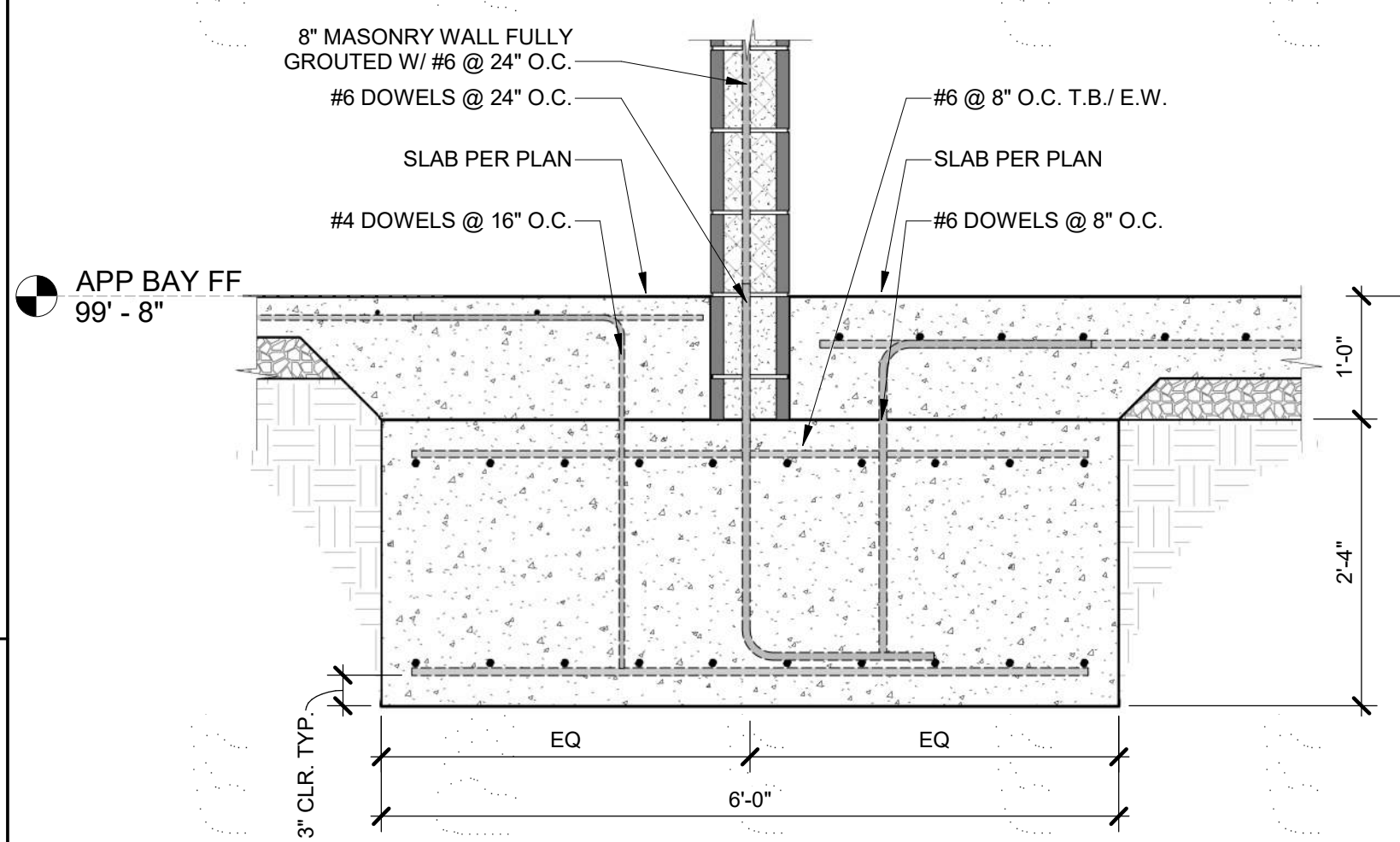
**C2 APP BAY ISOLATED FOUNDATION**  
3/4" = 1'-0"



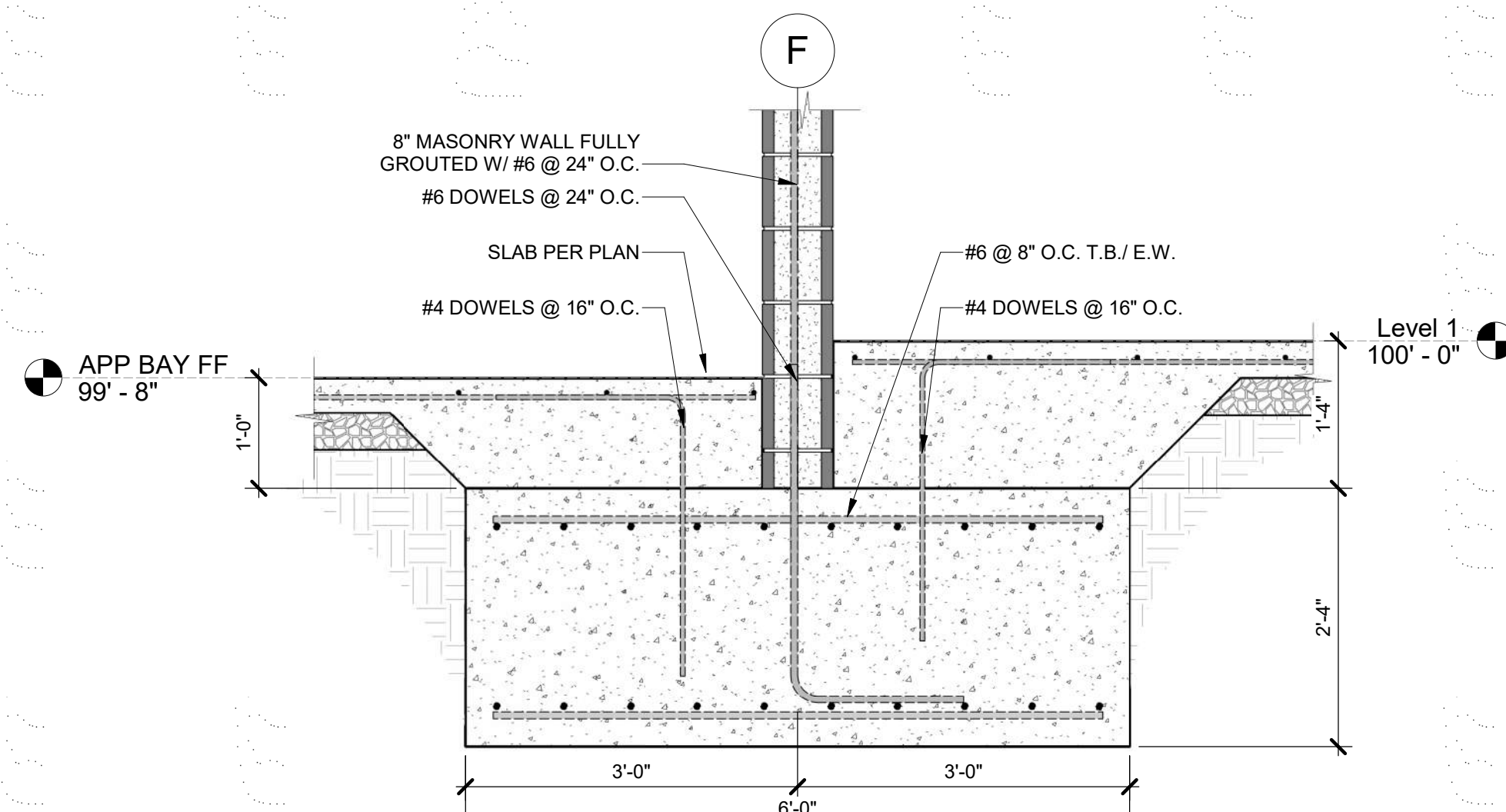
**C4 APP BAY TRENCH FOUNDATION**  
3/4" = 1'-0"



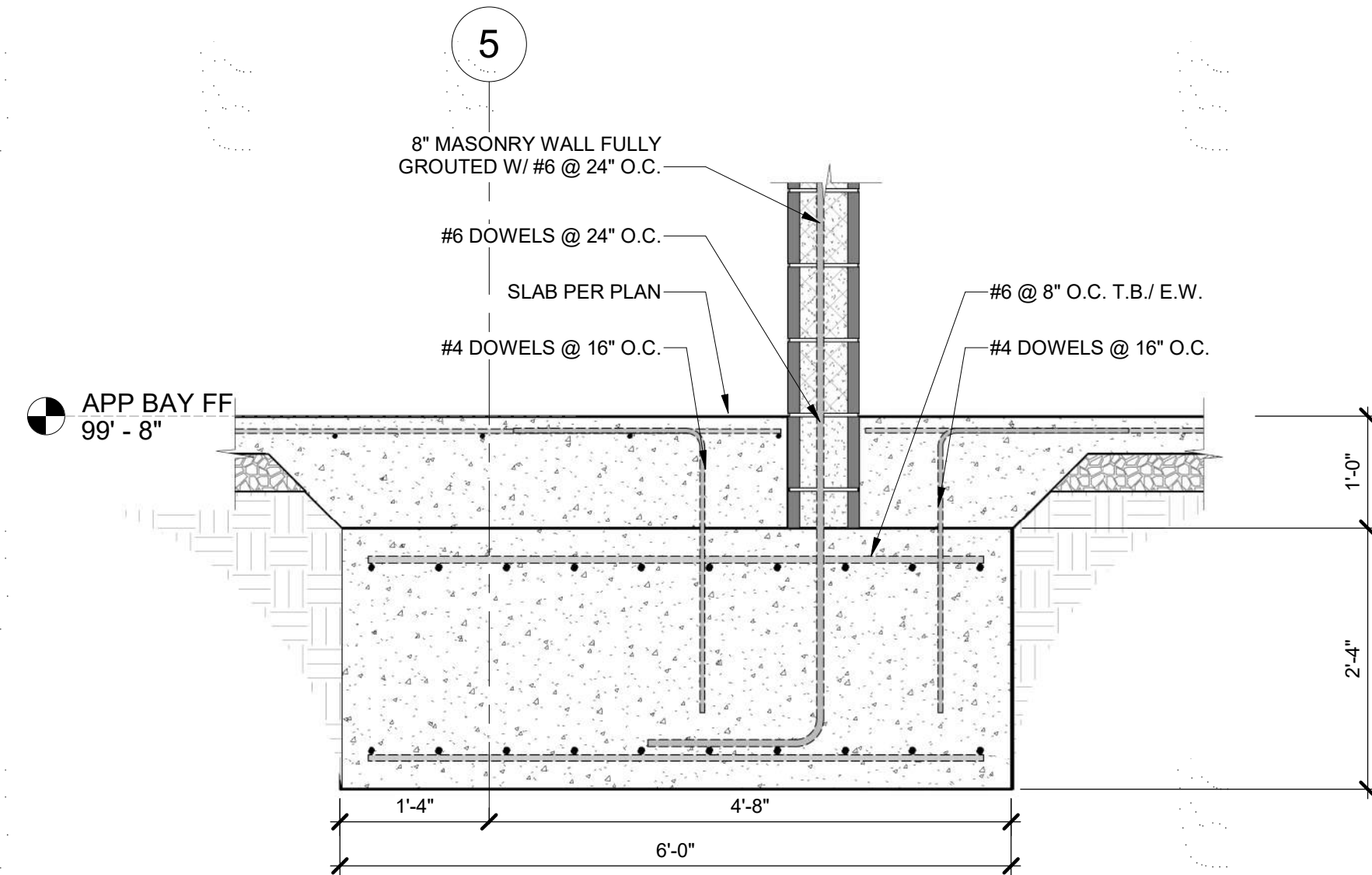
**C6 ISOLATED EXTERIOR FOUNDATION**  
3/4" = 1'-0"



**A1 NORTH STORM SHELTER FOUNDATION**  
3/4" = 1'-0"



**A3 SOUTH STORM SHELTER WALL FOUNDATION**  
3/4" = 1'-0"



**A5 EAST STORM SHELTER FOUNDATION**  
3/4" = 1'-0"



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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
4	Rev 04 - ASB04	02/01/2023



PROJECT NO: 18225R21001  
DATE: 02/01/2023  
DRAWN BY: JMB  
CHKD BY: WNH

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**FOUNDATION  
SECTIONS**

**S-300**

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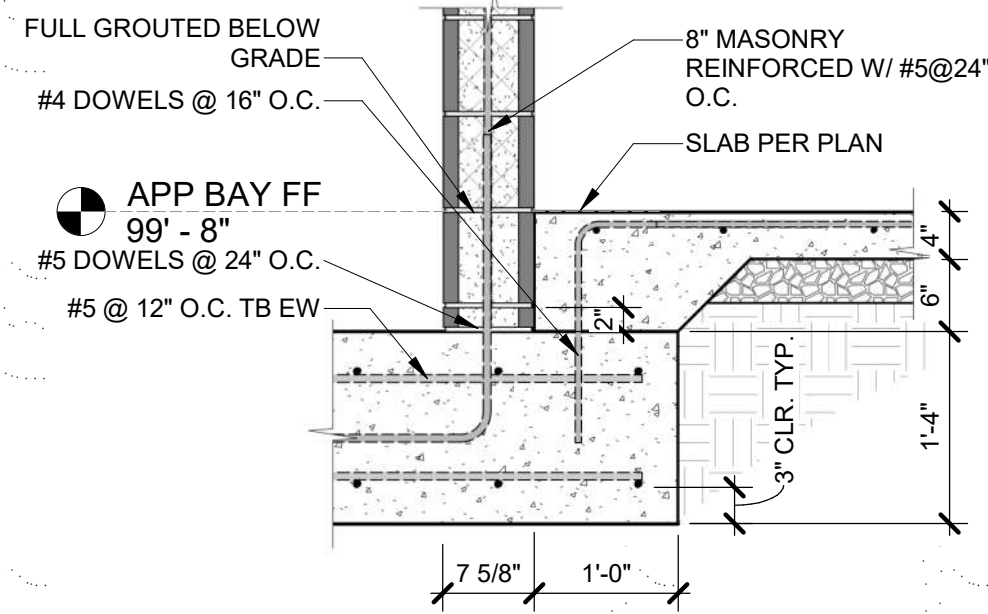
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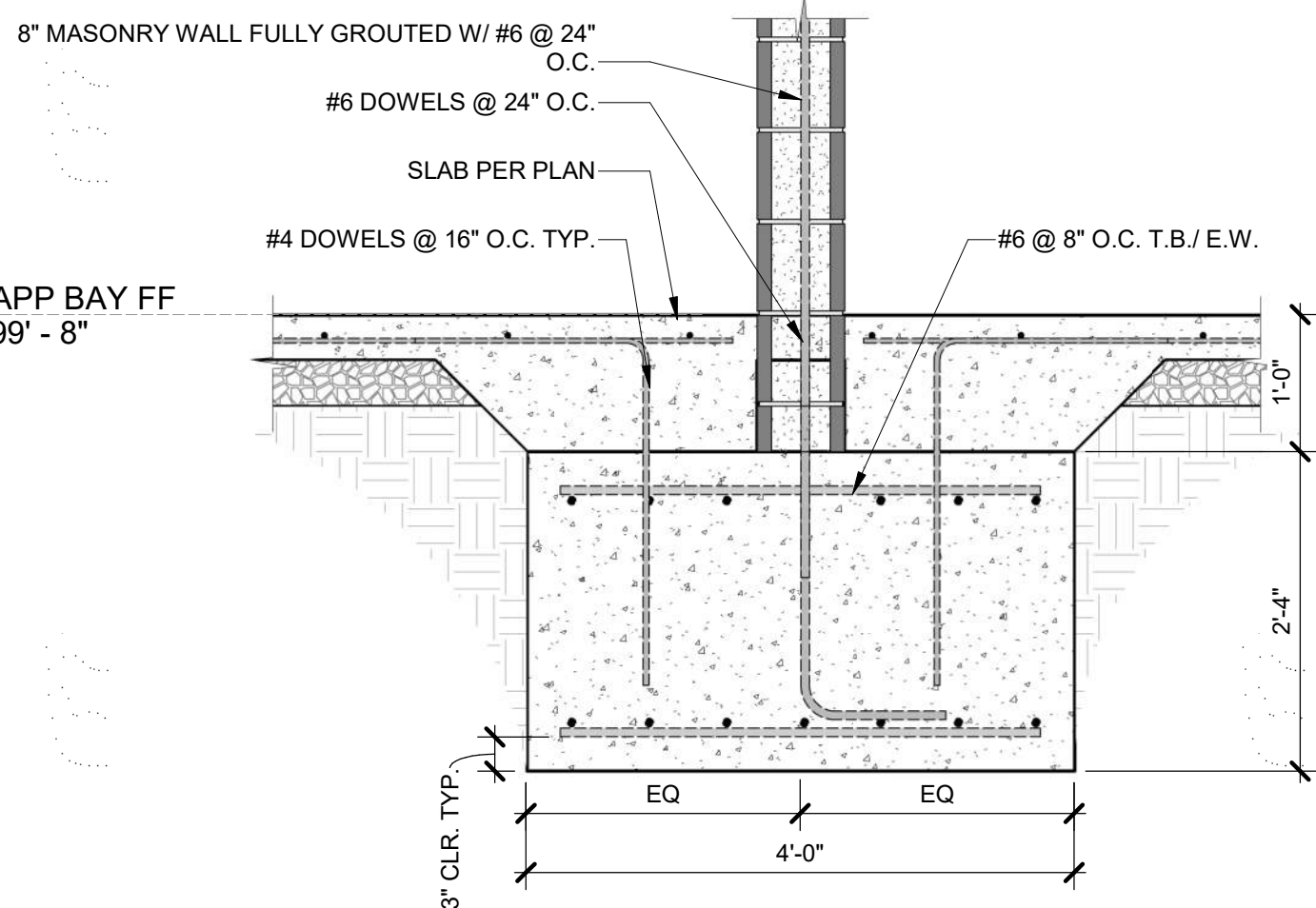
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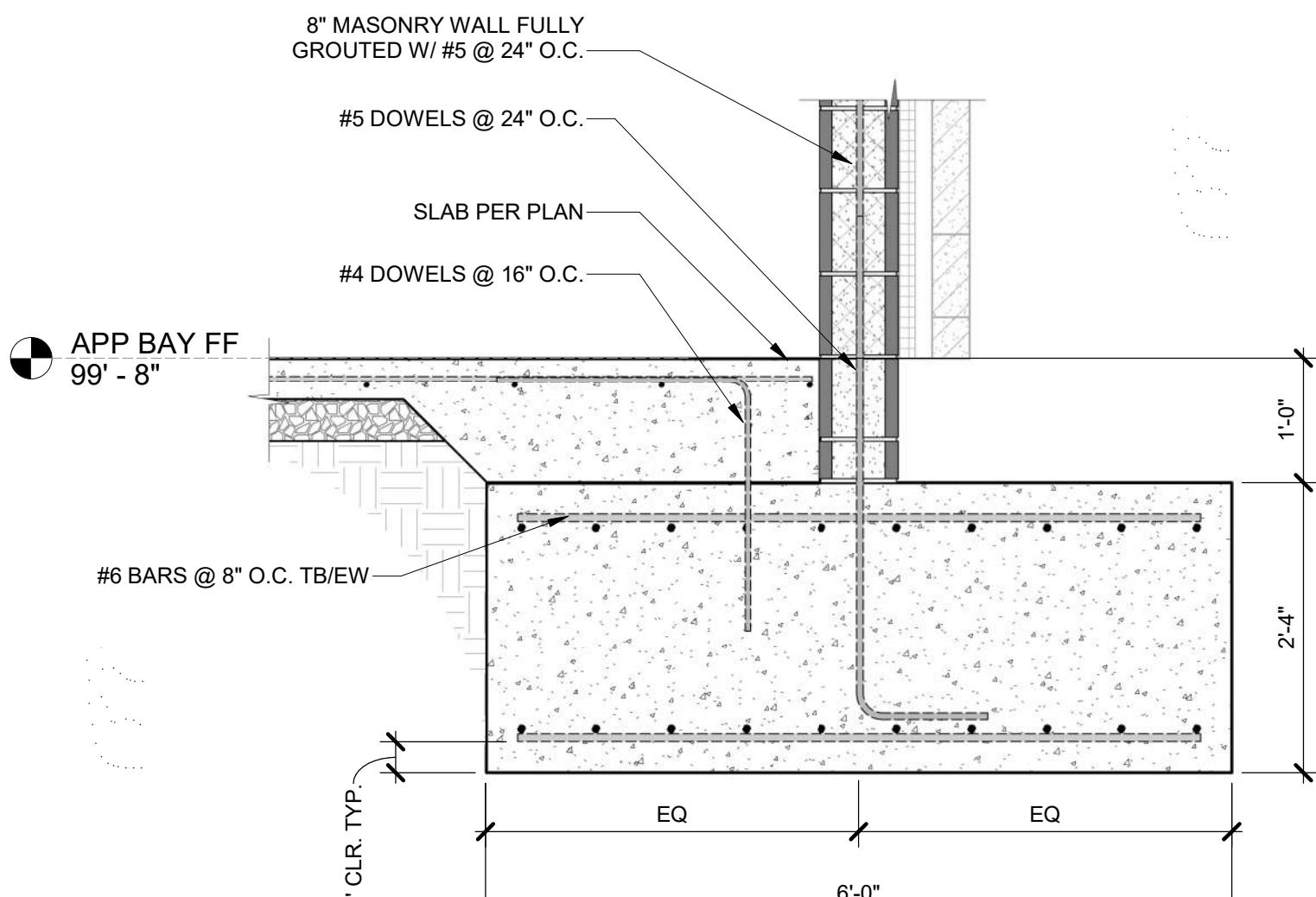
**C5 SECTION**  
3/4" = 1'-0"



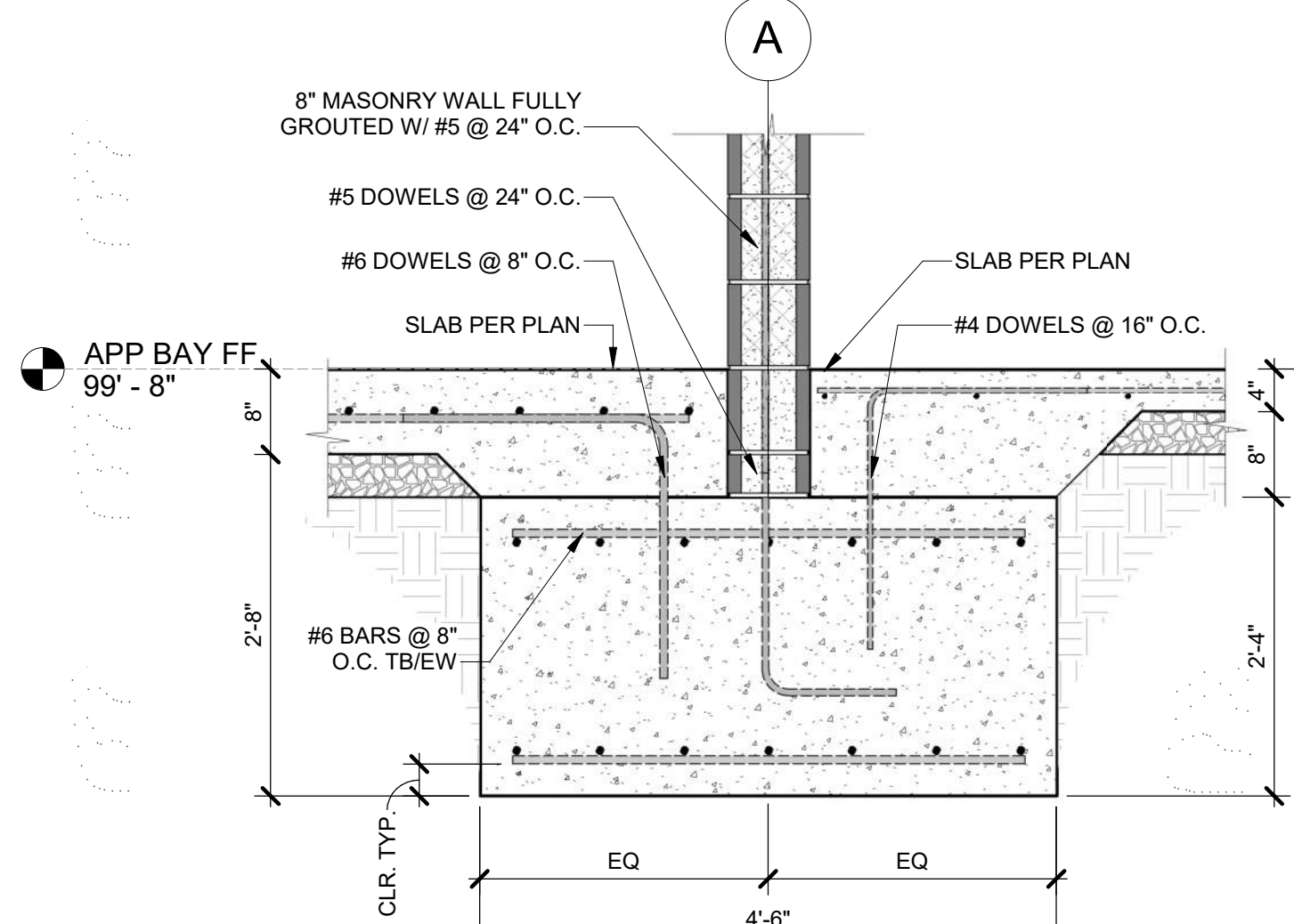
**D1 WEST STORM SHELTER FOUNDATION**  
3/4" = 1'-0"



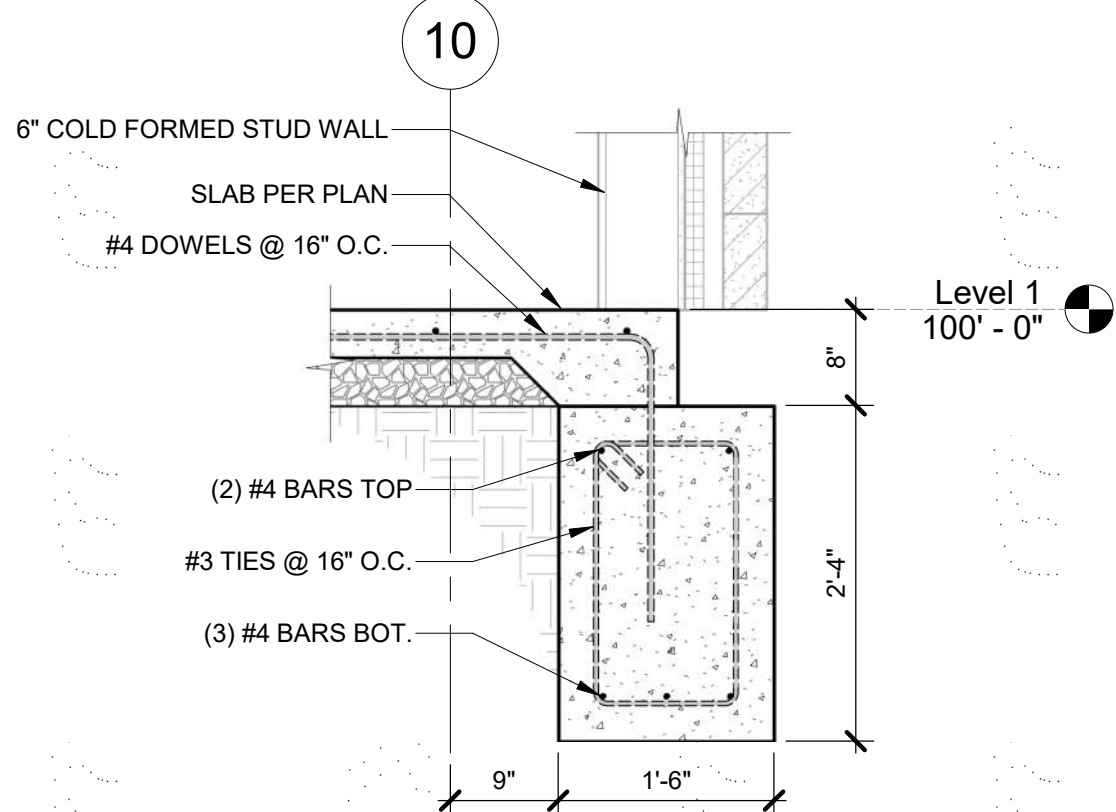
**D3 EXTERIOR MASONRY WALL FOUNDATION**  
3/4" = 1'-0"



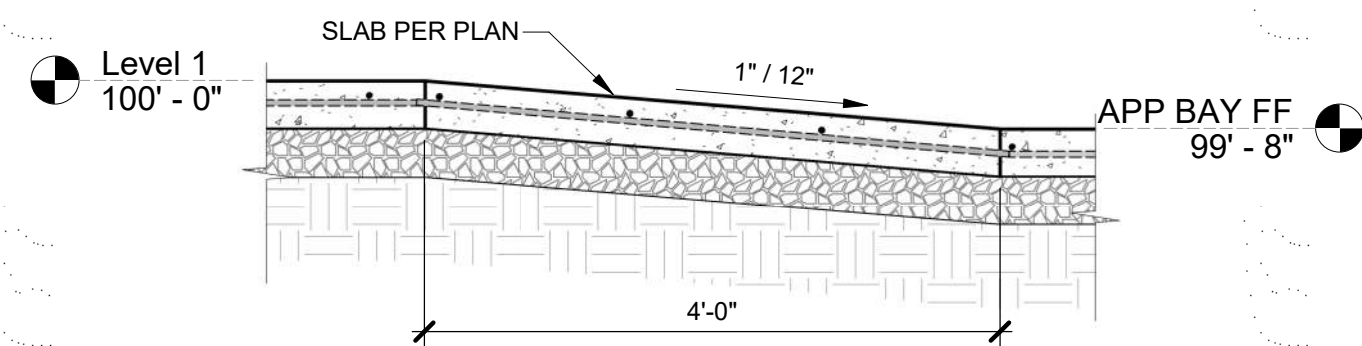
**D5 APP BAY NORTH MASONRY WALL FOUNDATION**  
3/4" = 1'-0"



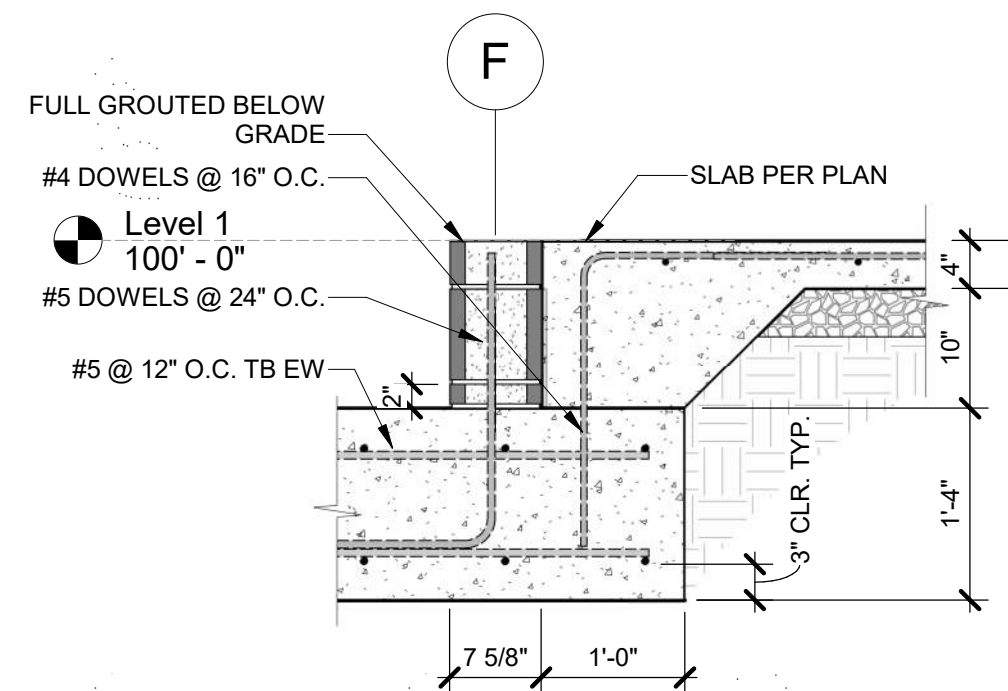
**C1 WEST TRENCH FOUNDATION**  
3/4" = 1'-0"



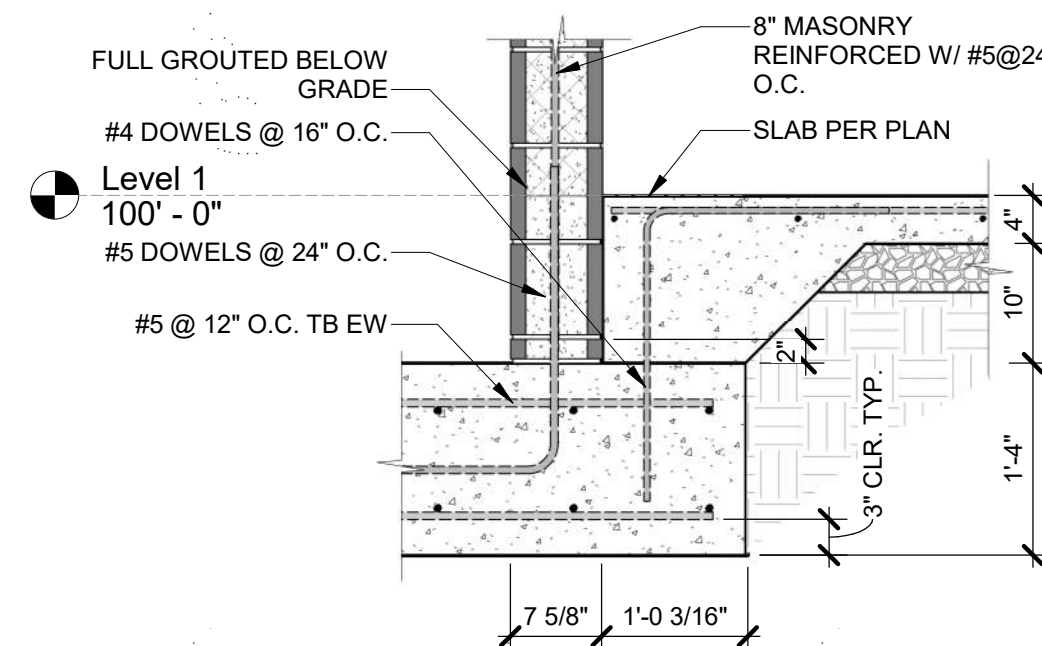
**C2 FLOOR SLAB RAMP SECTION**  
3/4" = 1'-0"



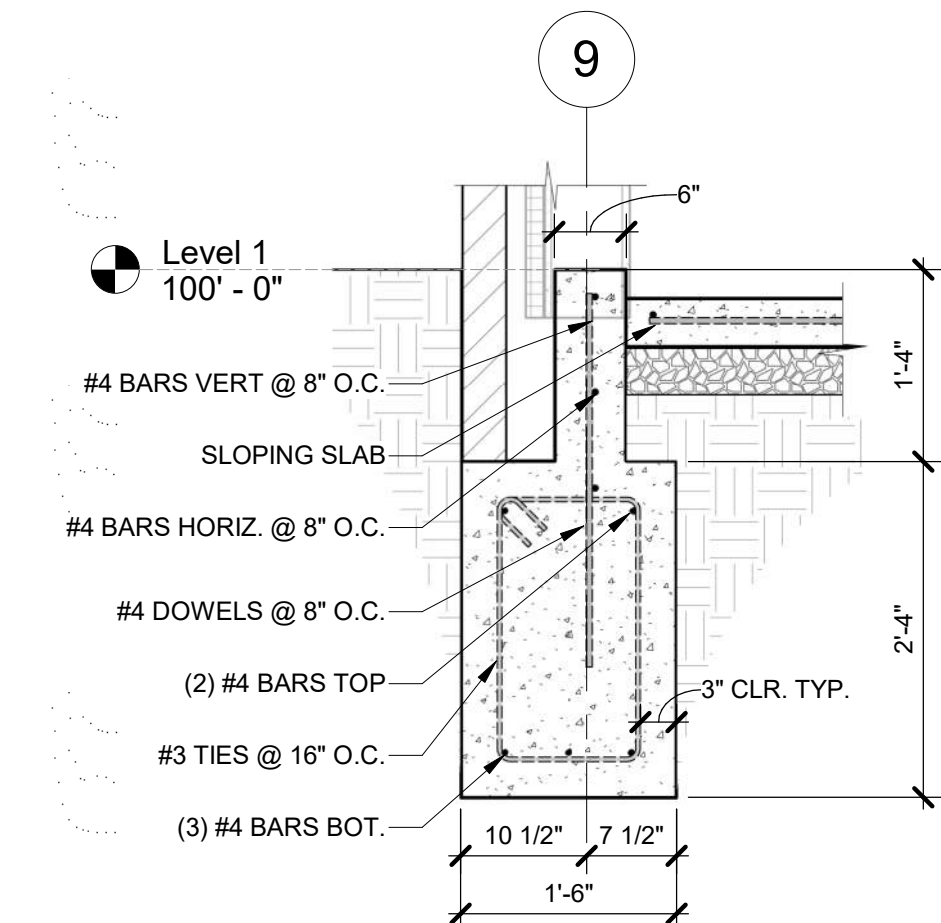
**C4 ELEVATOR FOUNDATION SECTION**  
3/4" = 1'-0"



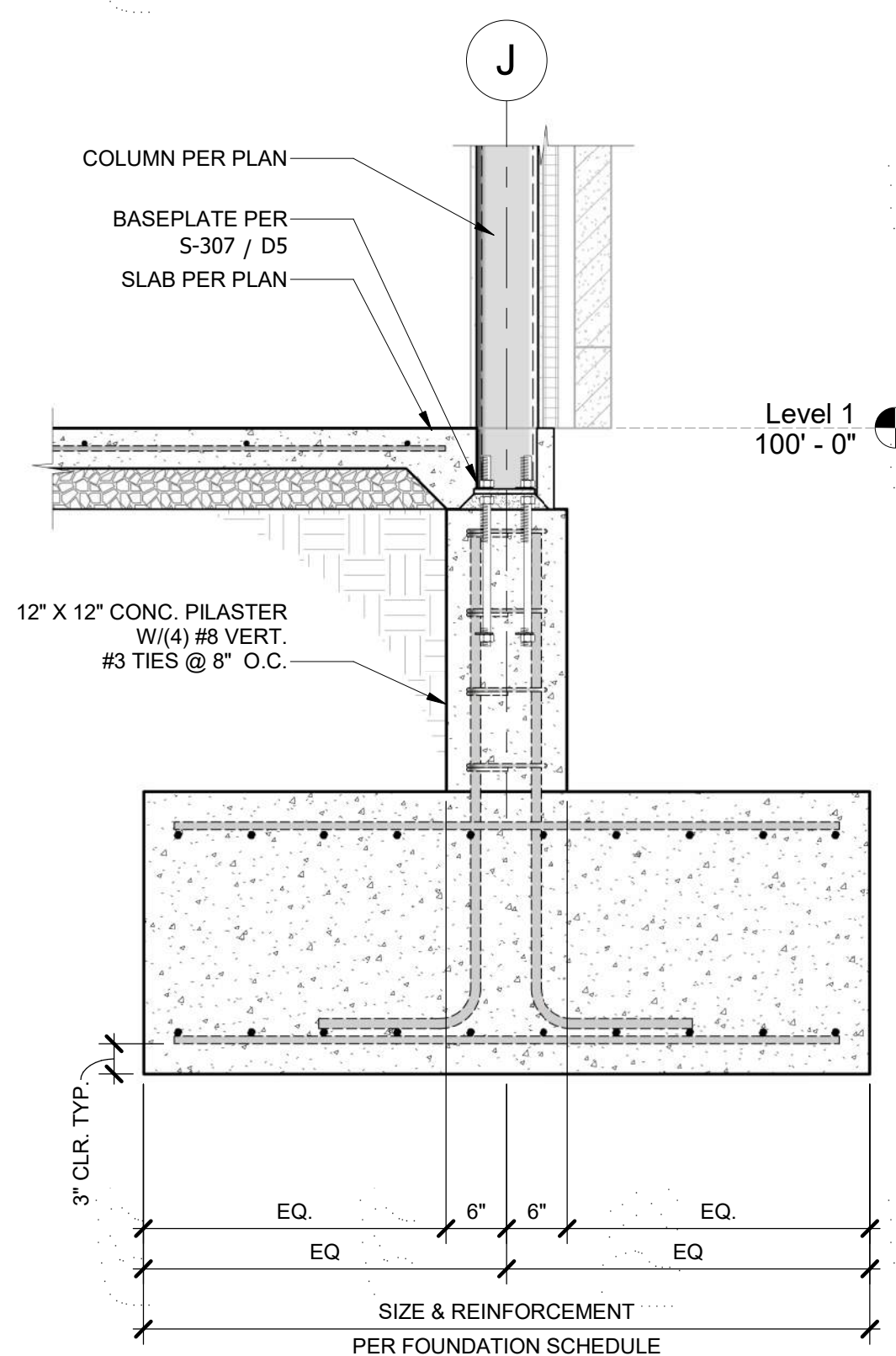
**C6 SECTION**  
3/4" = 1'-0"



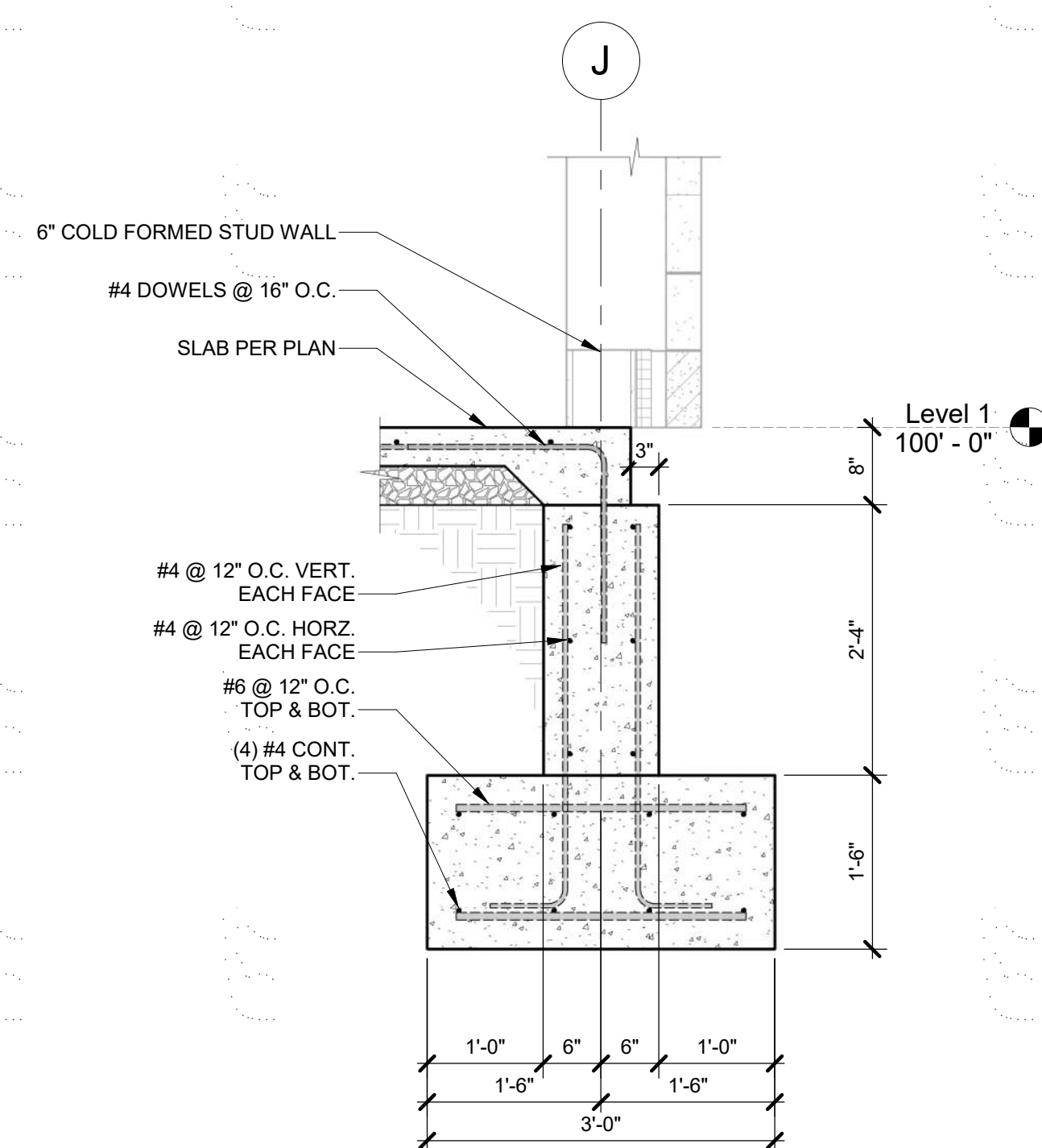
**B1 SECTION**  
3/4" = 1'-0"



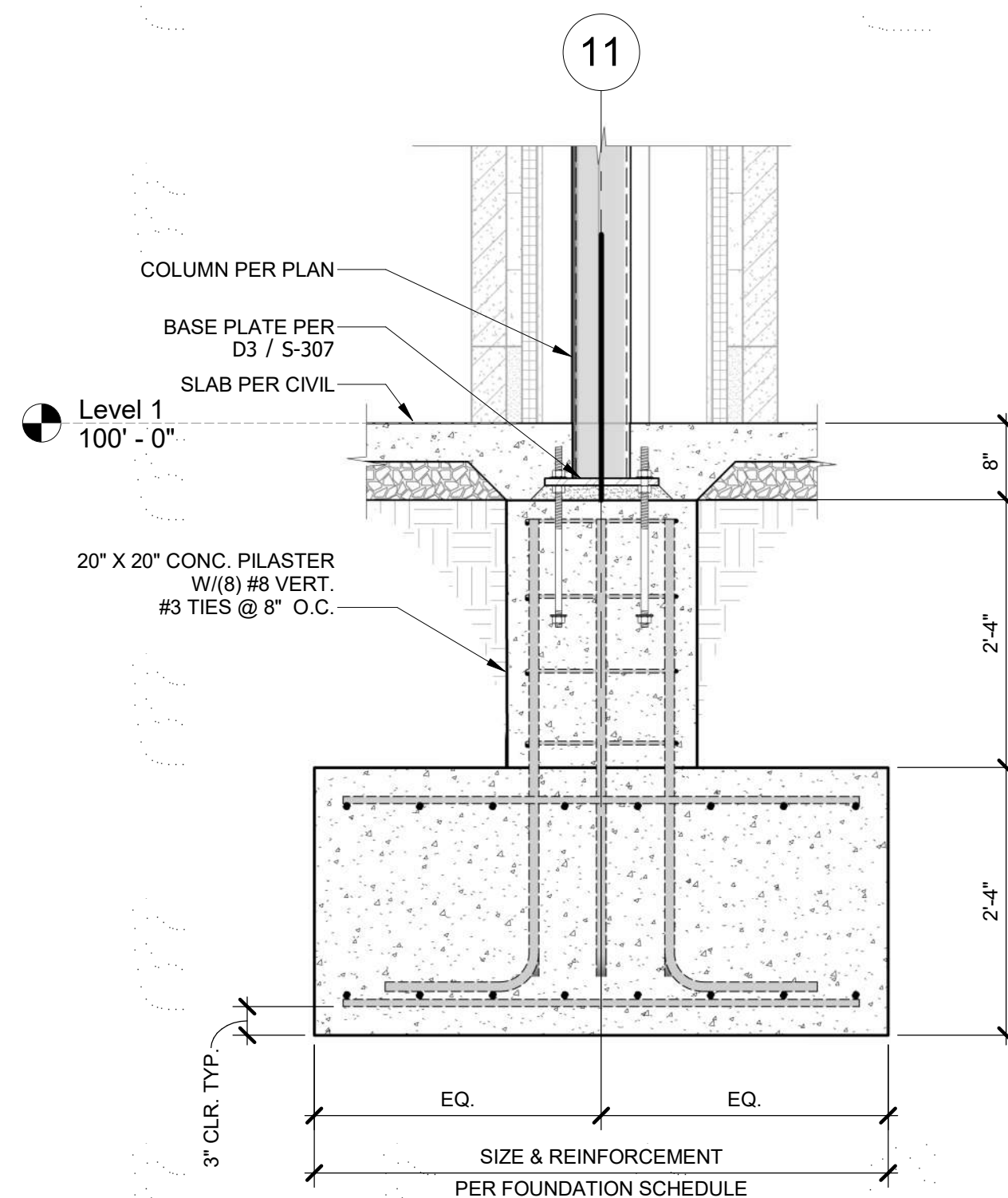
**A2 EXTERIOR ISOLATED FOUNDATION SOUTH**  
3/4" = 1'-0"



**A4 SOUTH STEM WALL FOUNDATION**  
3/4" = 1'-0"



**A6 ISOLATED EXTERIOR FOUNDATION W/PILASTER**  
3/4" = 1'-0"



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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:		
#	Description	Date
4	Rev 04 - ASB/DA	02/01/2023



2-1-2023

PROJECT NO: 18225R21001  
DATE: 02/01/2023  
DRAWN BY: JMB  
CHKD BY: WNH

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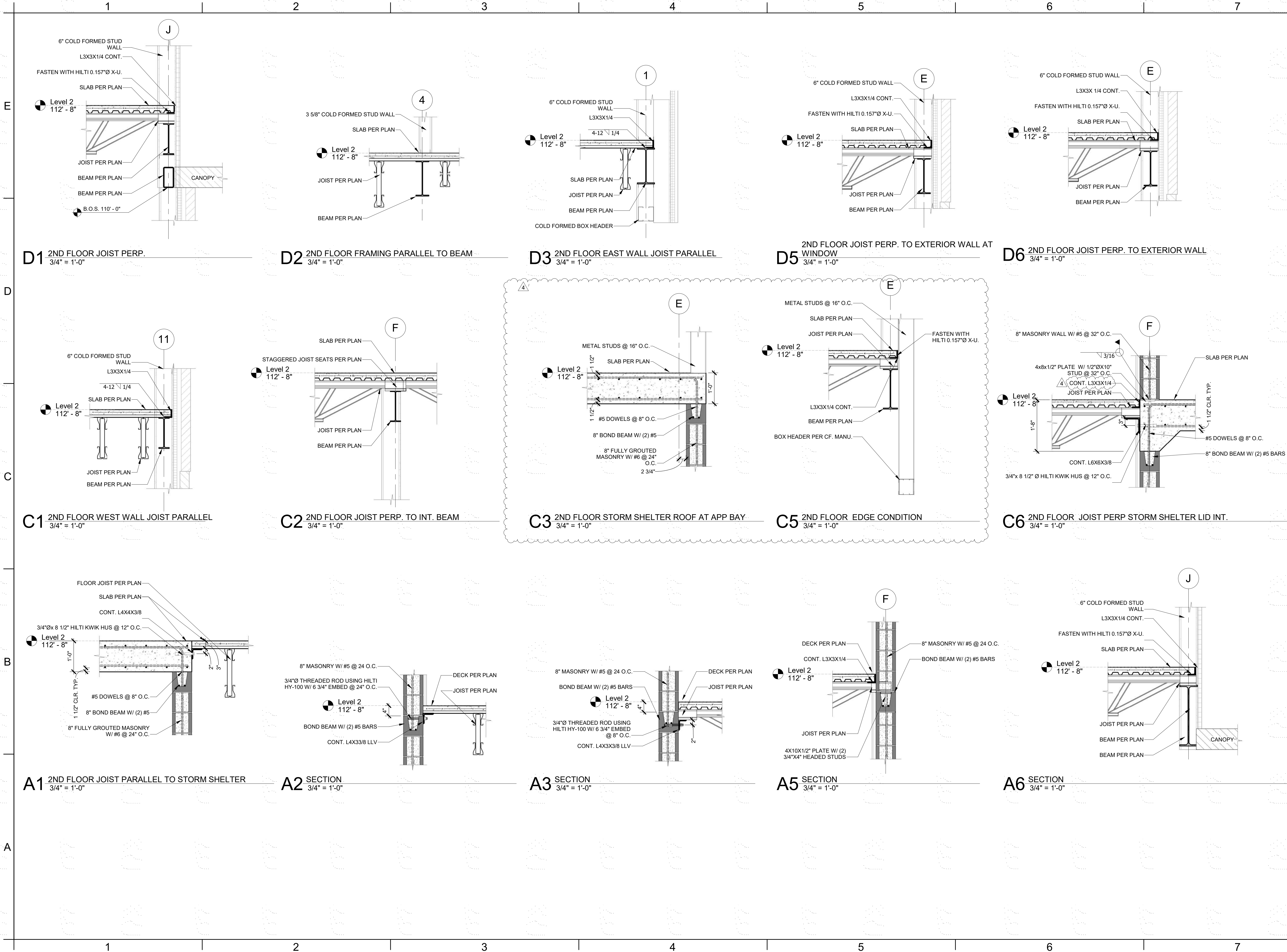
**FOUNDATION  
SECTIONS**

**S-301**

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FILE PATH: BM 360//18225R21001\_LeesSummitFireStation\_#4 and #5LSMO\_FIRE STATIONS\_STRUCT\_F55.vt



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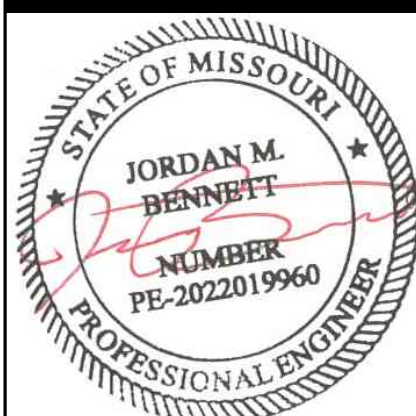
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LEIGH + O'KANE  
MISSOURI COA #001644  
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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

#	Description	Date
1	AS1 01	11/16/2022
4	Rev 04 - AS04	02/01/2023



PROJECT NO: 18225R21001  
DATE: 02/01/2023  
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**FLOOR  
SECTIONS**

**S-302**

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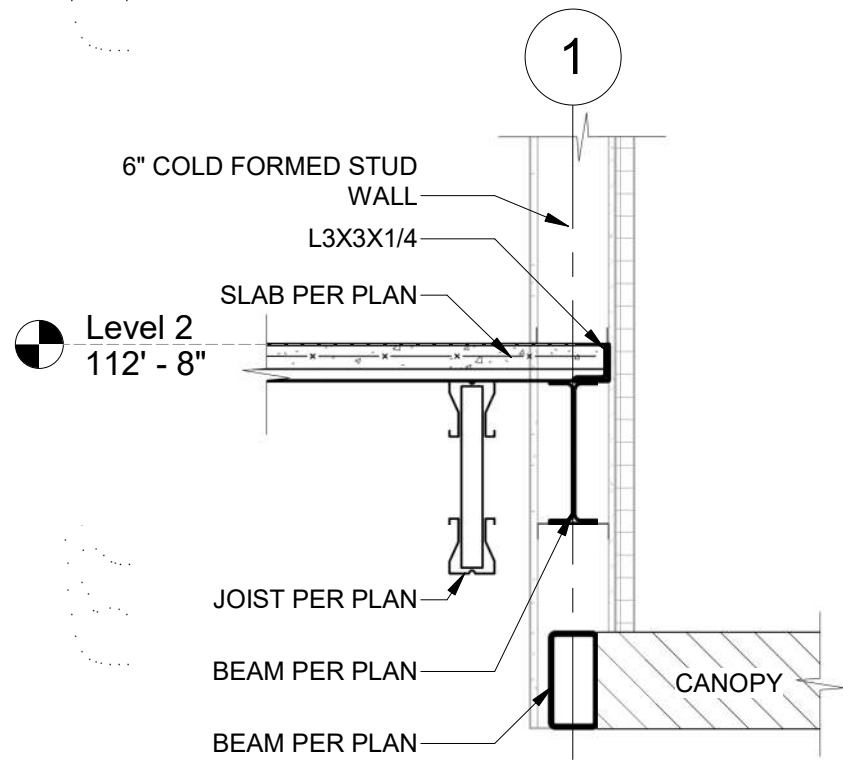
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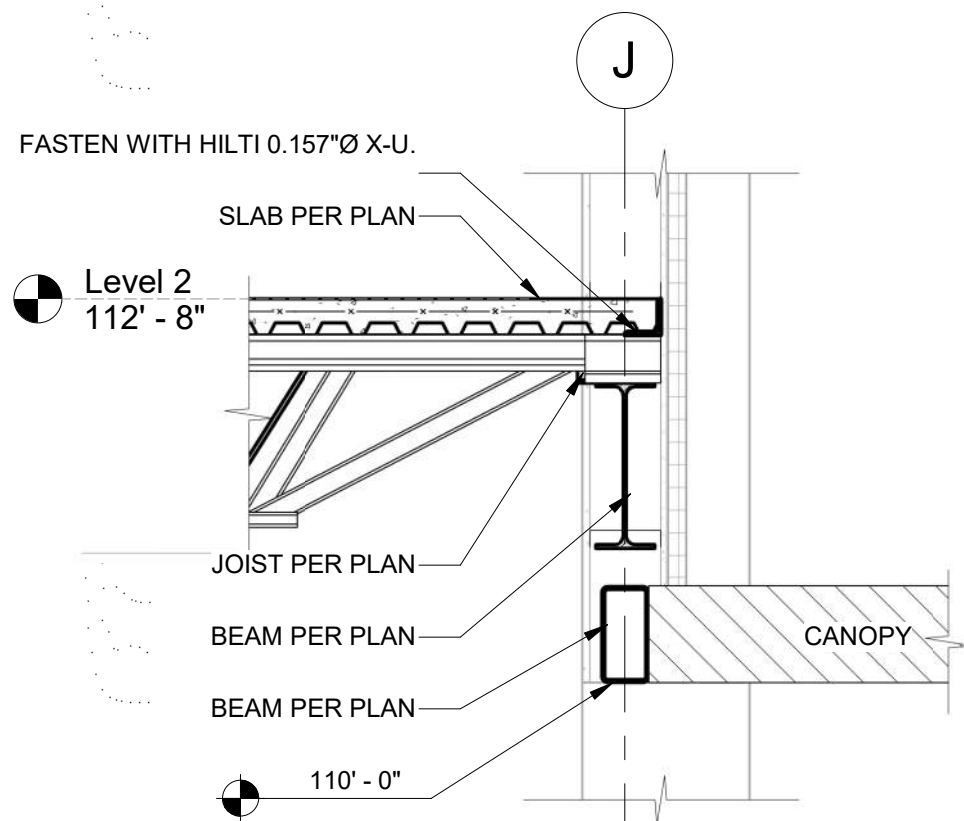
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B

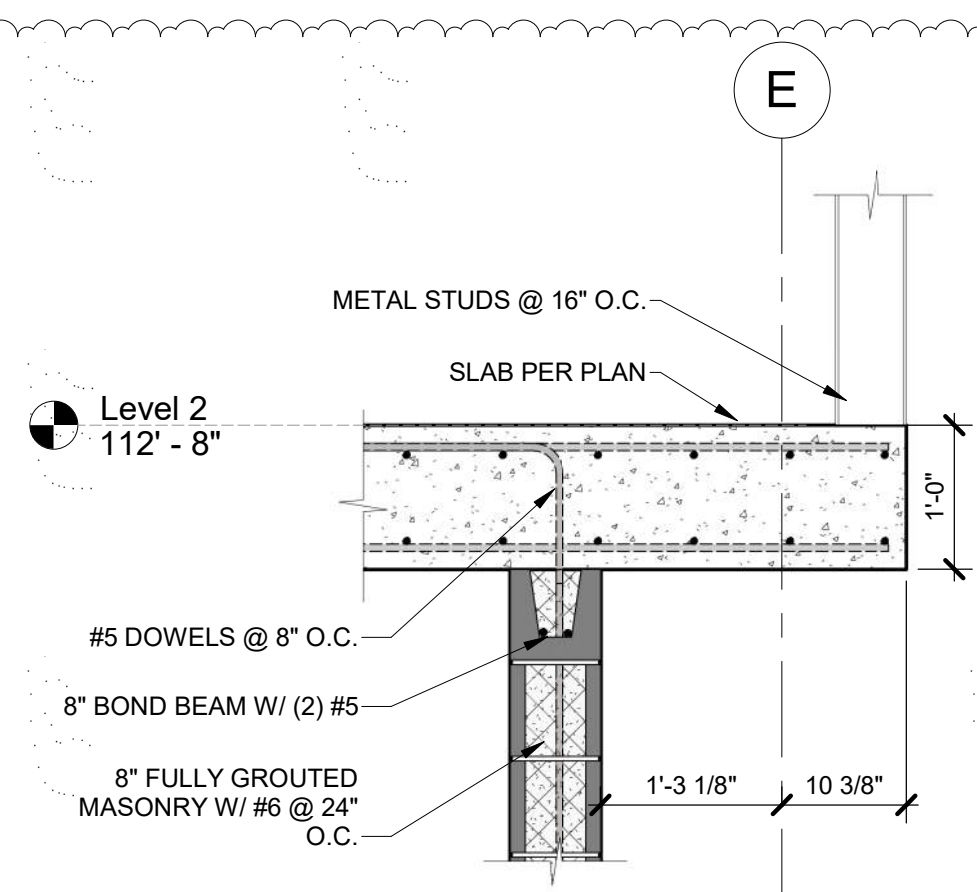
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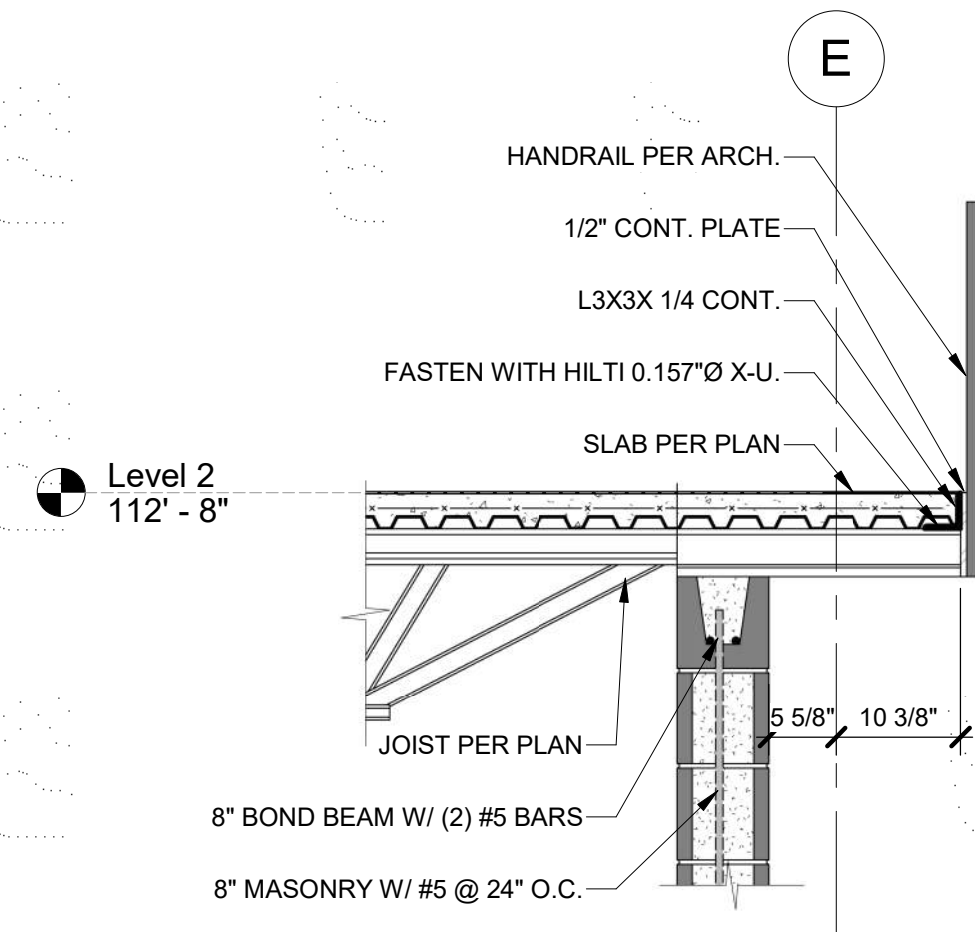
A1 SECTION  
3/4" = 1'-0"



A2 SECTION  
3/4" = 1'-0"



A4 SECTION  
3/4" = 1'-0"



A5 SECTION  
3/4" = 1'-0"



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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

#	Description	Date
4	Rev 04 - ASB04	02/01/2023



PROJECT NO: 18225R21001  
DATE: 02/01/2023  
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**FLOOR  
SECTIONS**

**S-303**

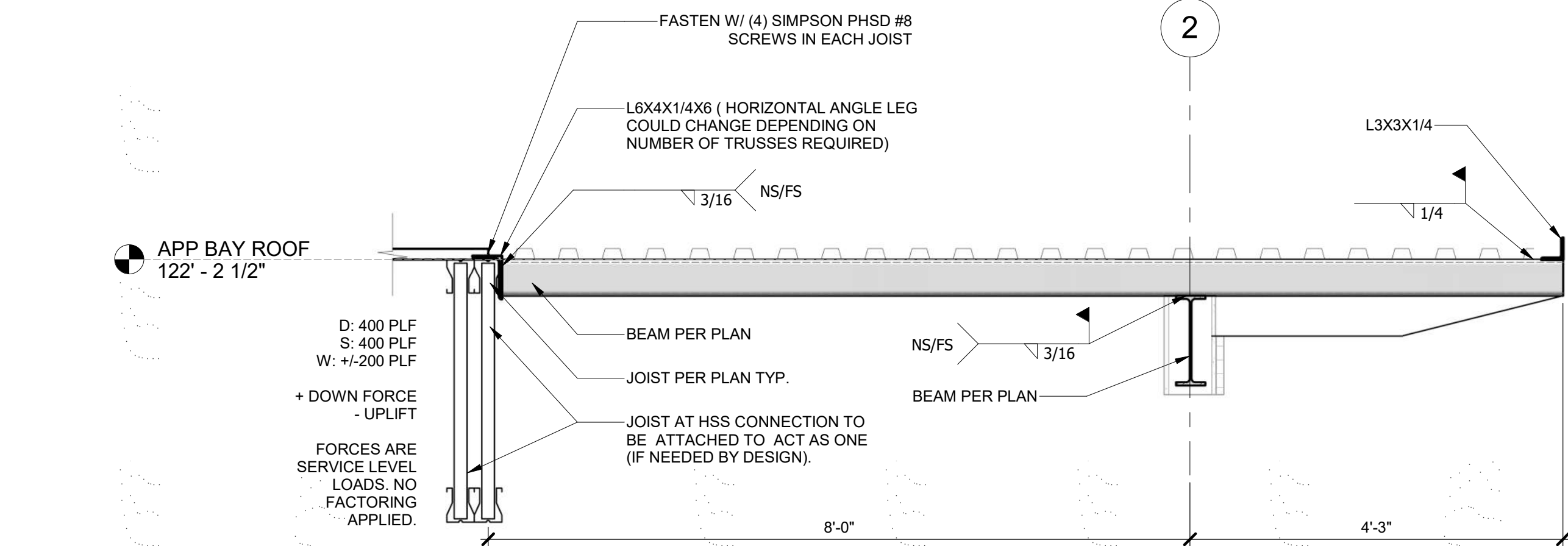
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FILE PATH: BM 360//18225R21001\_LeesSummitFireStation\_#4 and #5LSMO\_FIRE STATIONS\_STRUCT\_F55.vit

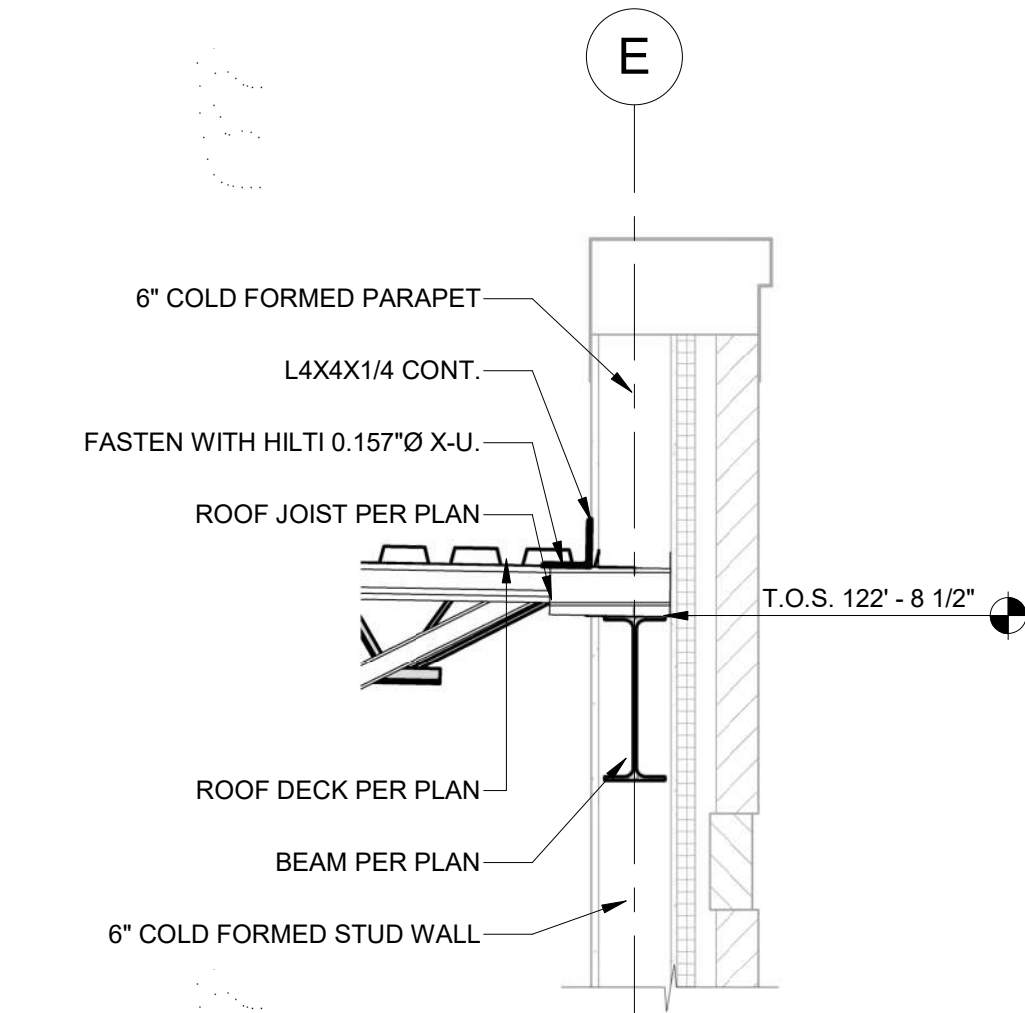
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D



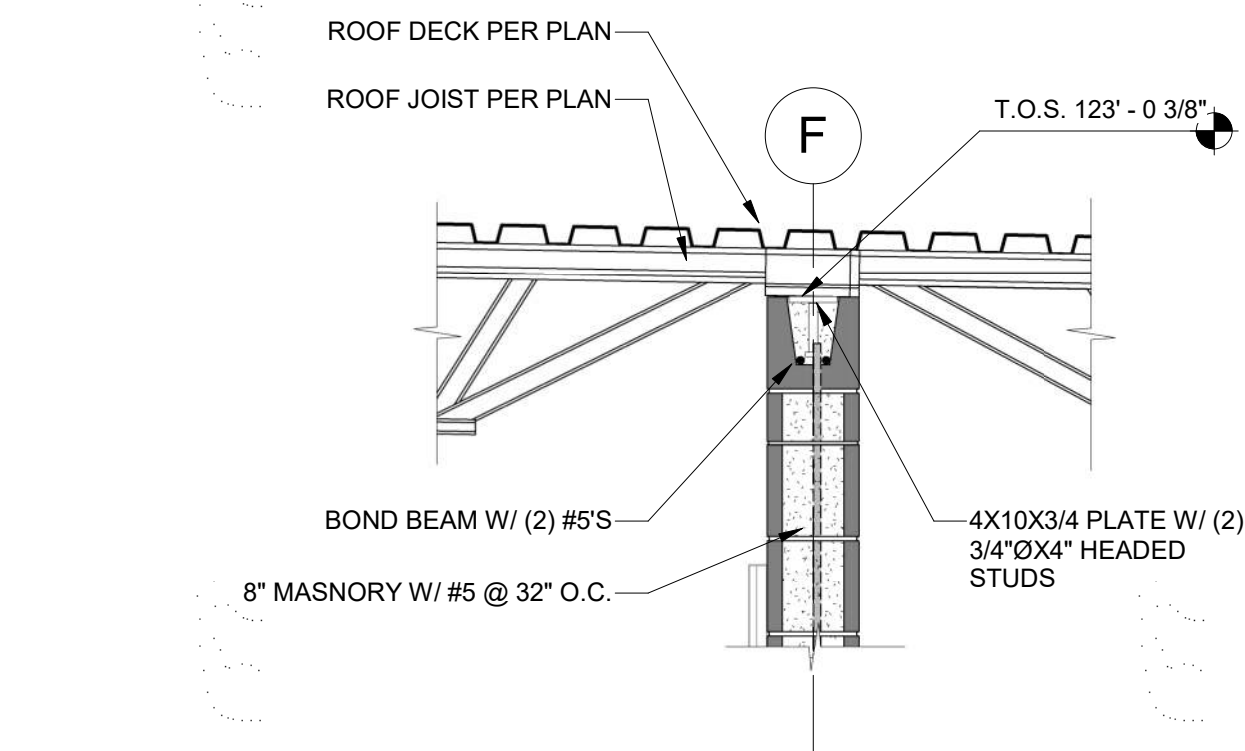
**D1 APP BAY ROOF EDGE CONDITION**  
3/4" = 1'-0"

C



**B1 ROOF FRAMING PERP. NOT AT APP BAY NORTH**  
3/4" = 1'-0"

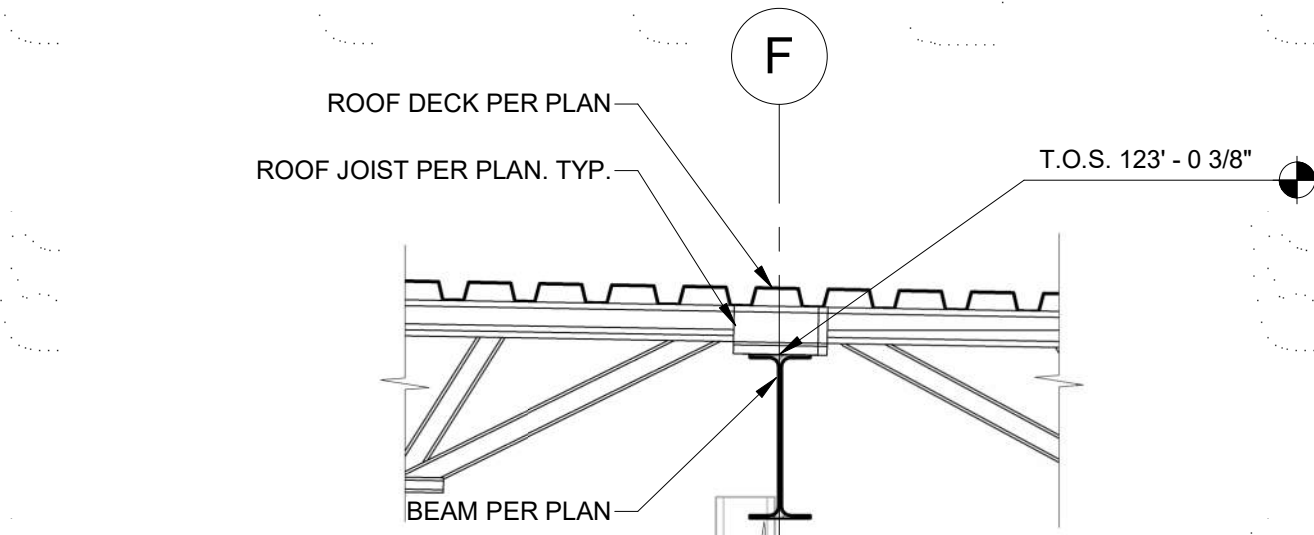
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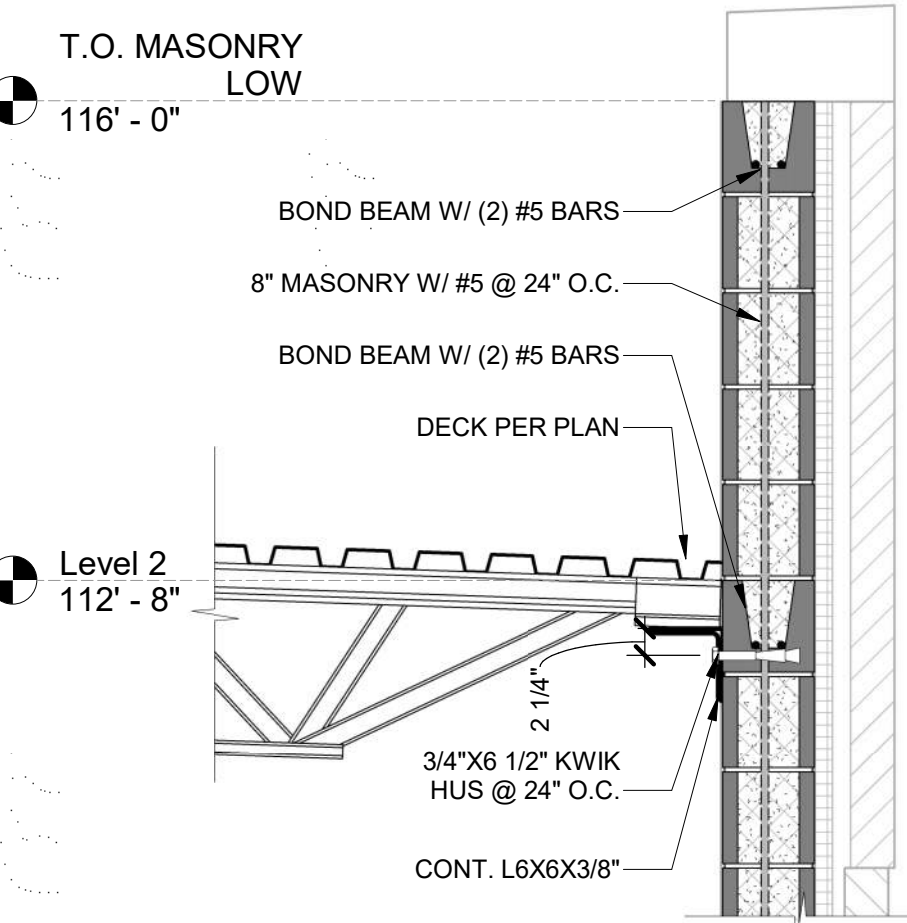
**A1 ROOF FRAMING BEARING ON INT. MASONRY WALL**  
3/4" = 1'-0"

2

2



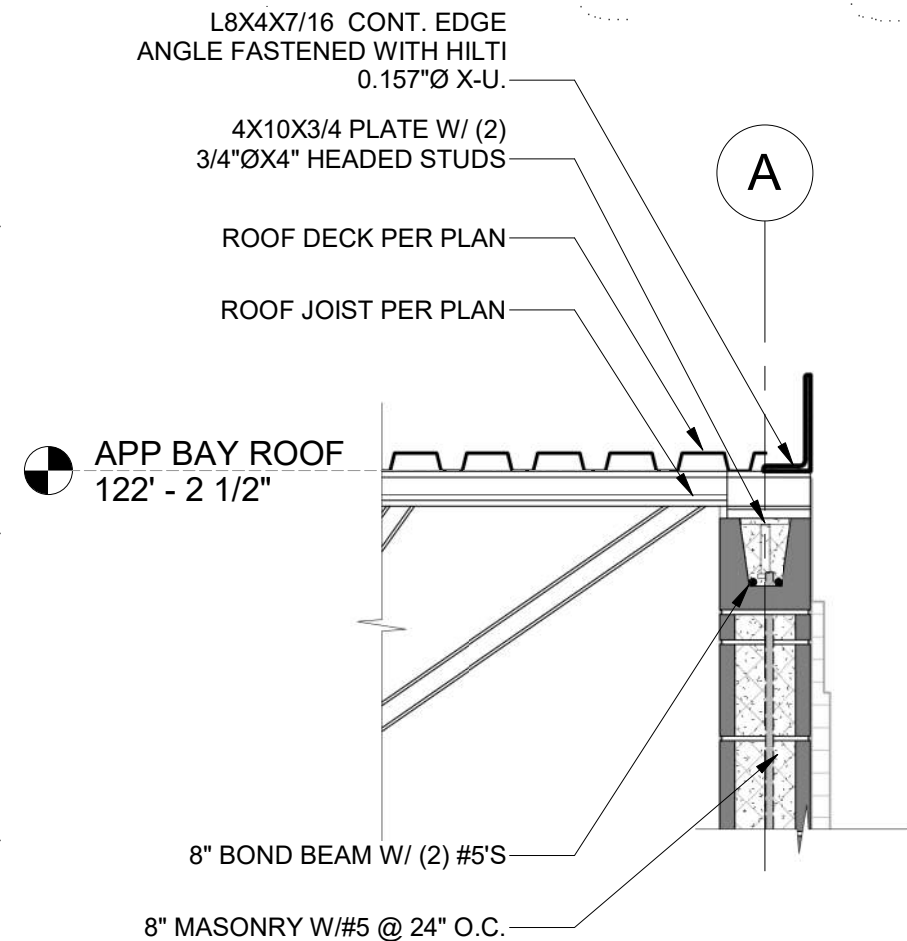
**B2 ROOF INTERIOR BEAM BEARING LINE**  
3/4" = 1'-0"



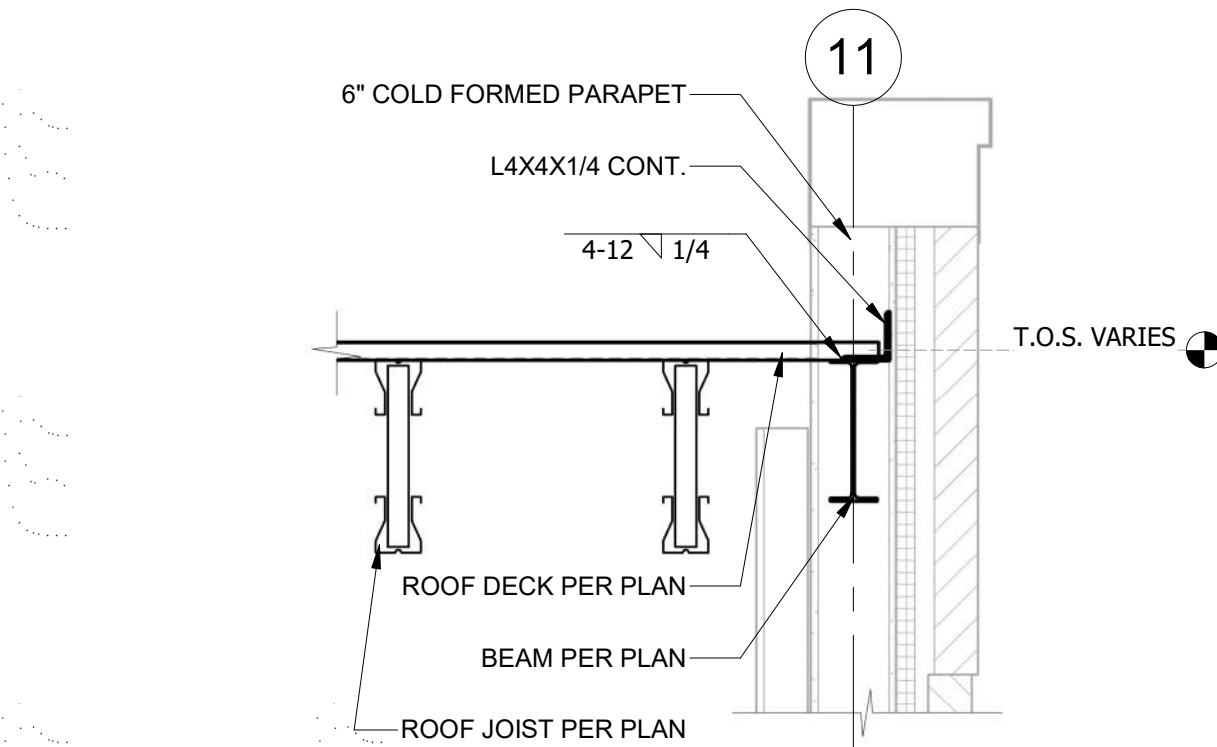
**A2 NORTH CMU WALL @ FITNESS CENTER**  
3/4" = 1'-0"

4

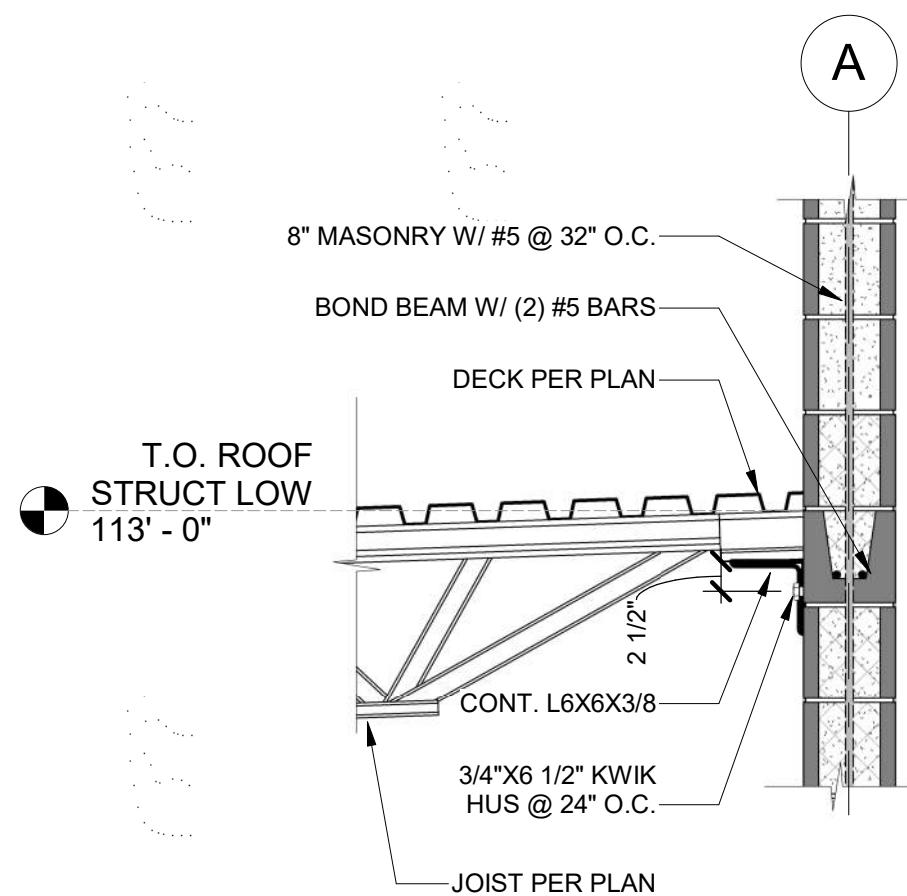
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**D4 APP BAY ROOF JOIST PERP. TO MASONRY**  
3/4" = 1'-0"



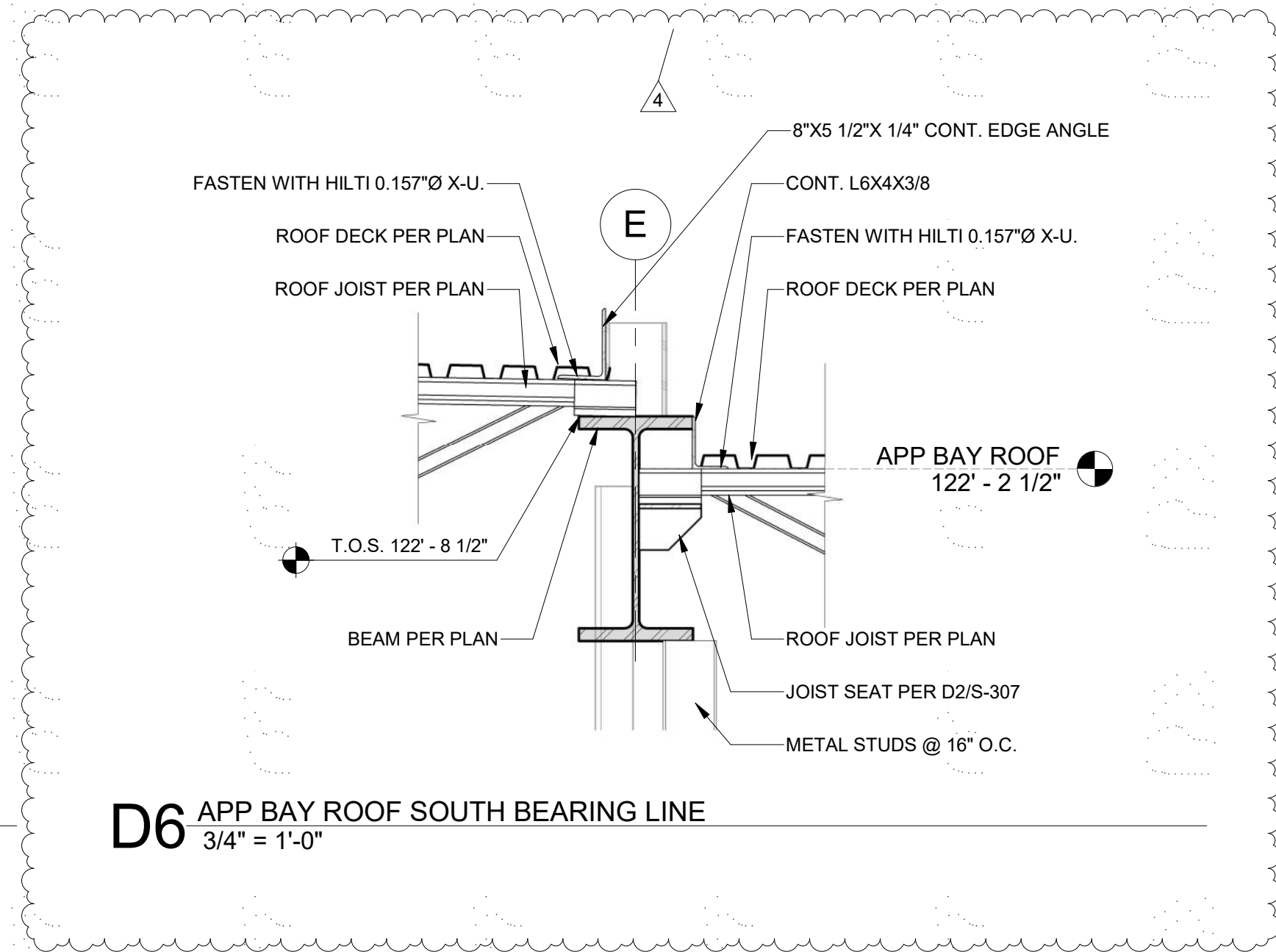
**B4 ROOF FRAMING PARALLEL**  
3/4" = 1'-0"



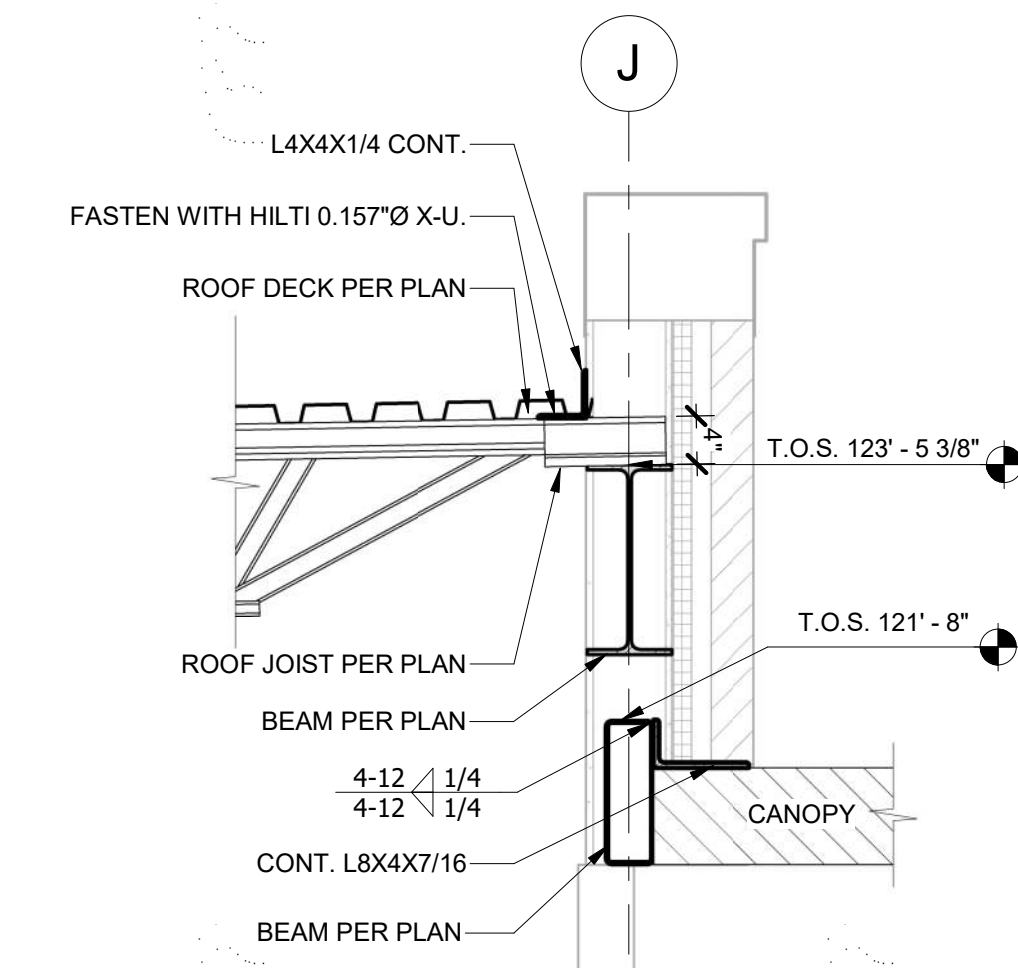
**A4 SOUTH CMU WALL @ FITNESS CENTER ROOF**  
3/4" = 1'-0"

5

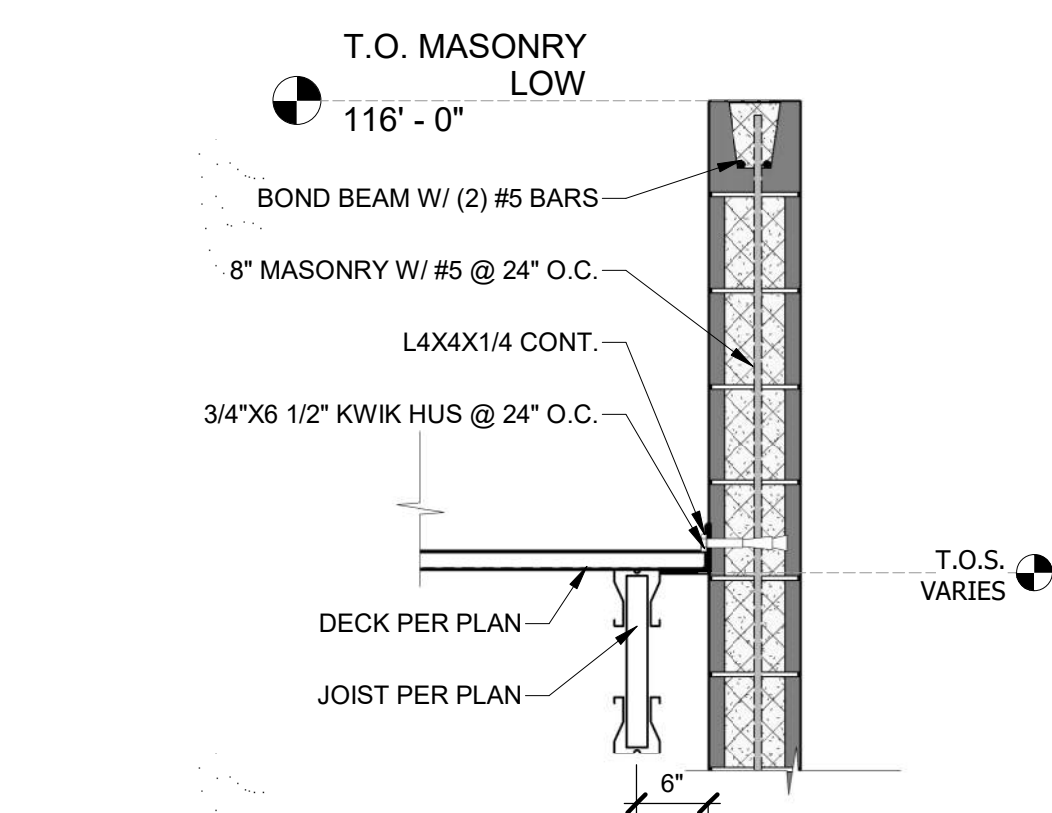
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**D6 APP BAY ROOF SOUTH BEARING LINE**  
3/4" = 1'-0"



**B6 ROOF FRAMING PERP. SOUTH SIDE**  
3/4" = 1'-0"



**A6 ROOF FRAMING PARALLEL AT FITNESS CENTER**  
3/4" = 1'-0"



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**FIRE STATION #5**

**CITY OF LEE'S SUMMIT**

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

#	Description	Date
1	ASB 01	11/16/2022
4	Rev 04 - ASB04	02/01/2023



PROJECT NO: 18225R21001  
DATE: 02/01/2023  
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CHKD BY: WNH

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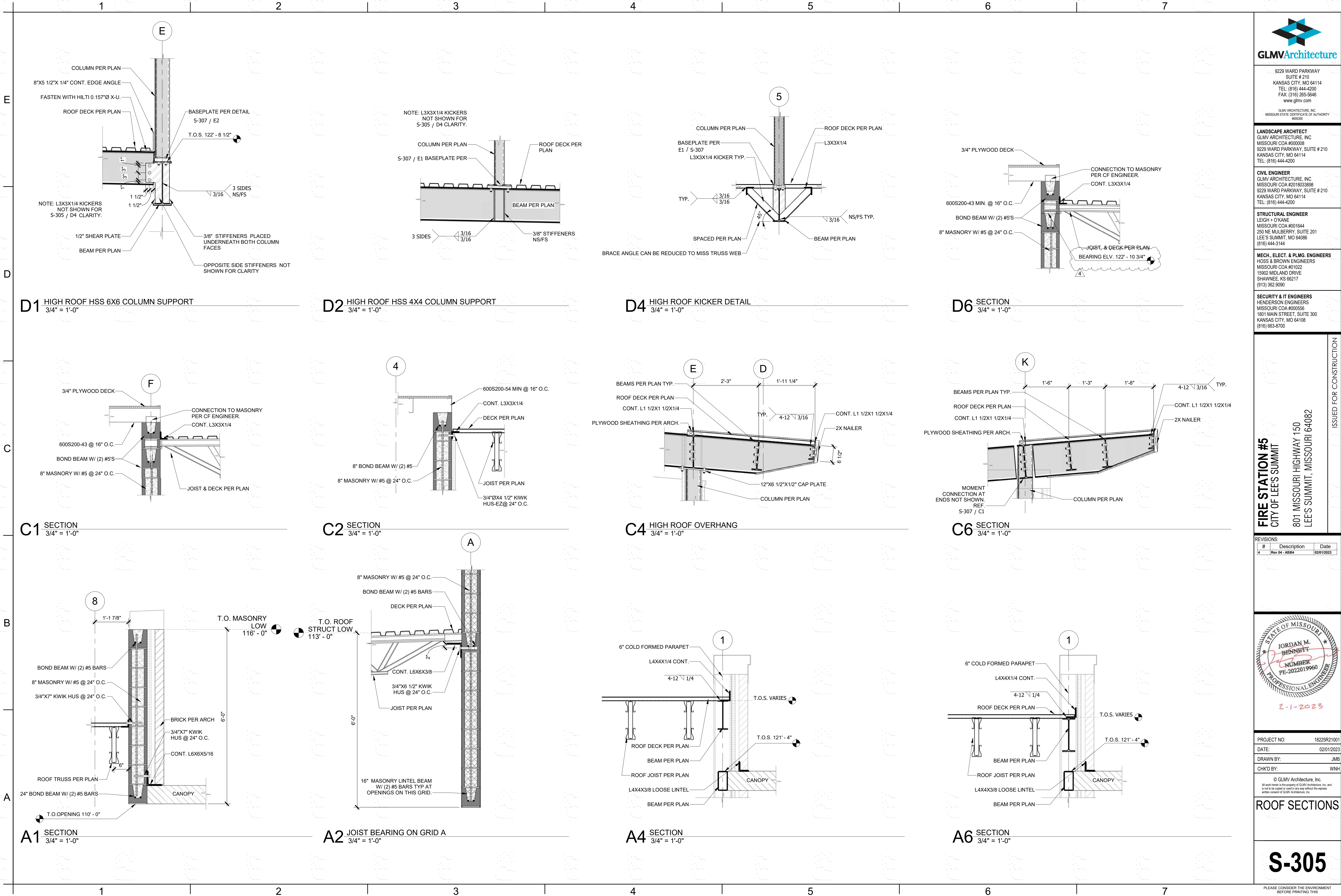
**ROOF SECTIONS**

**S-304**

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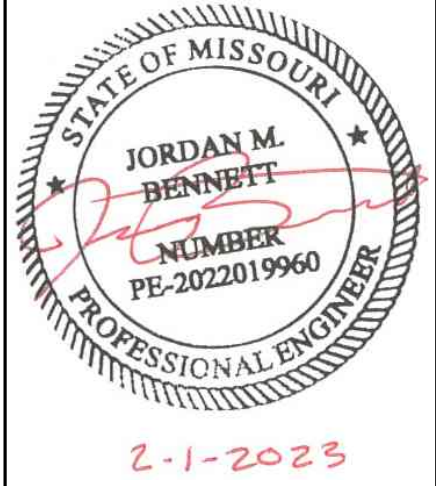
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**FIRE STATION #5**  
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REVISIONS:

#	Description	Date
4	Rev 04 - ASB04	02/01/2023



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**ROOF SECTIONS**

**S-305**

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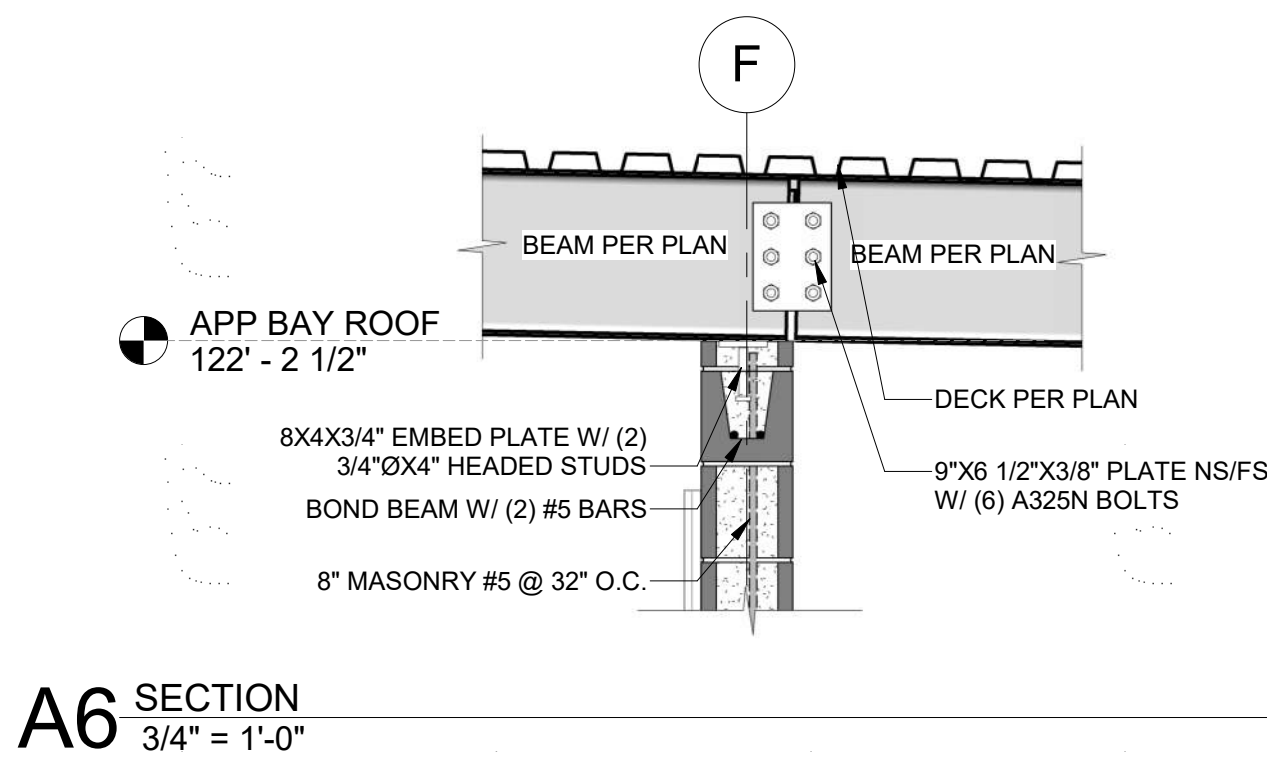
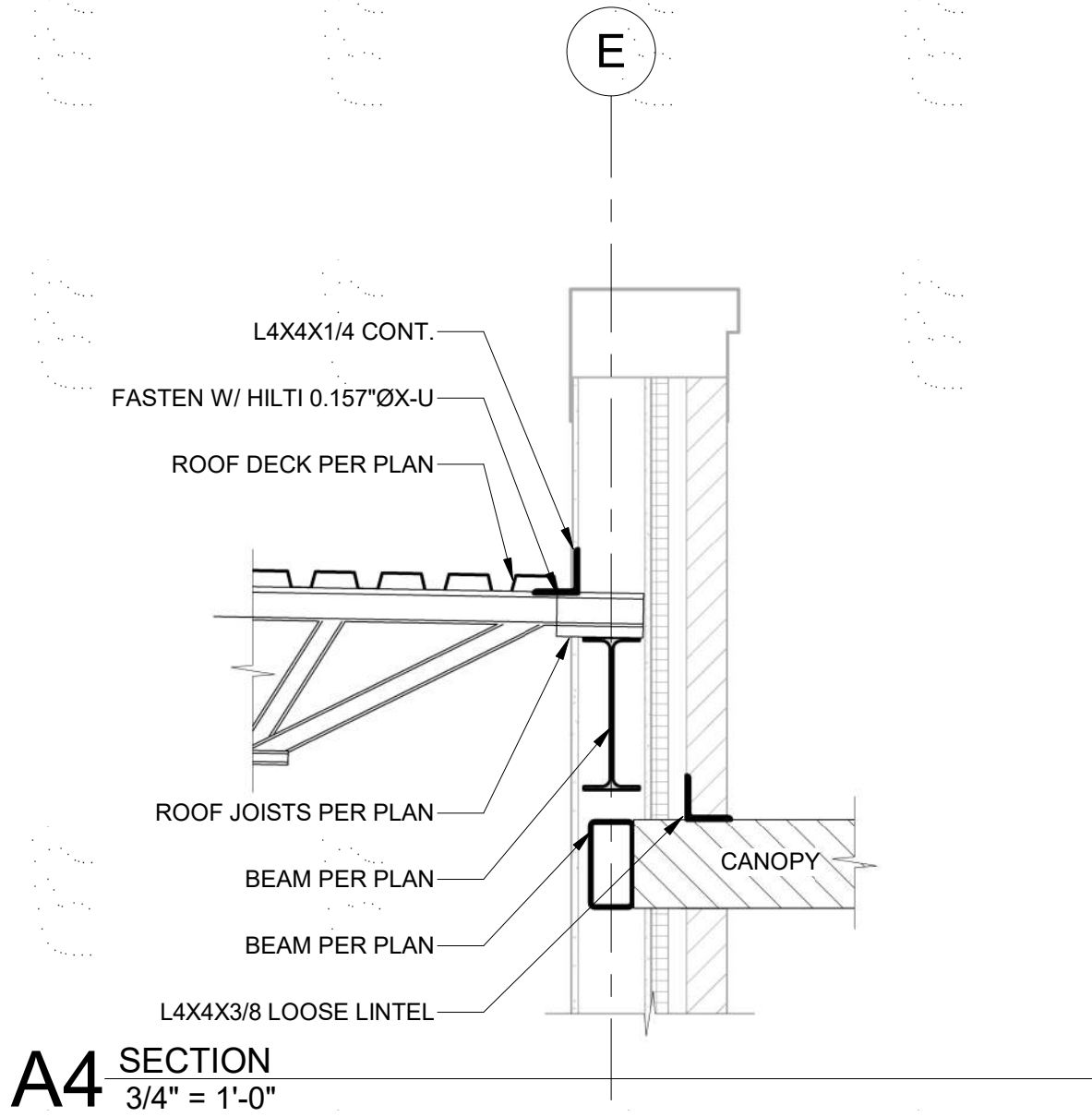
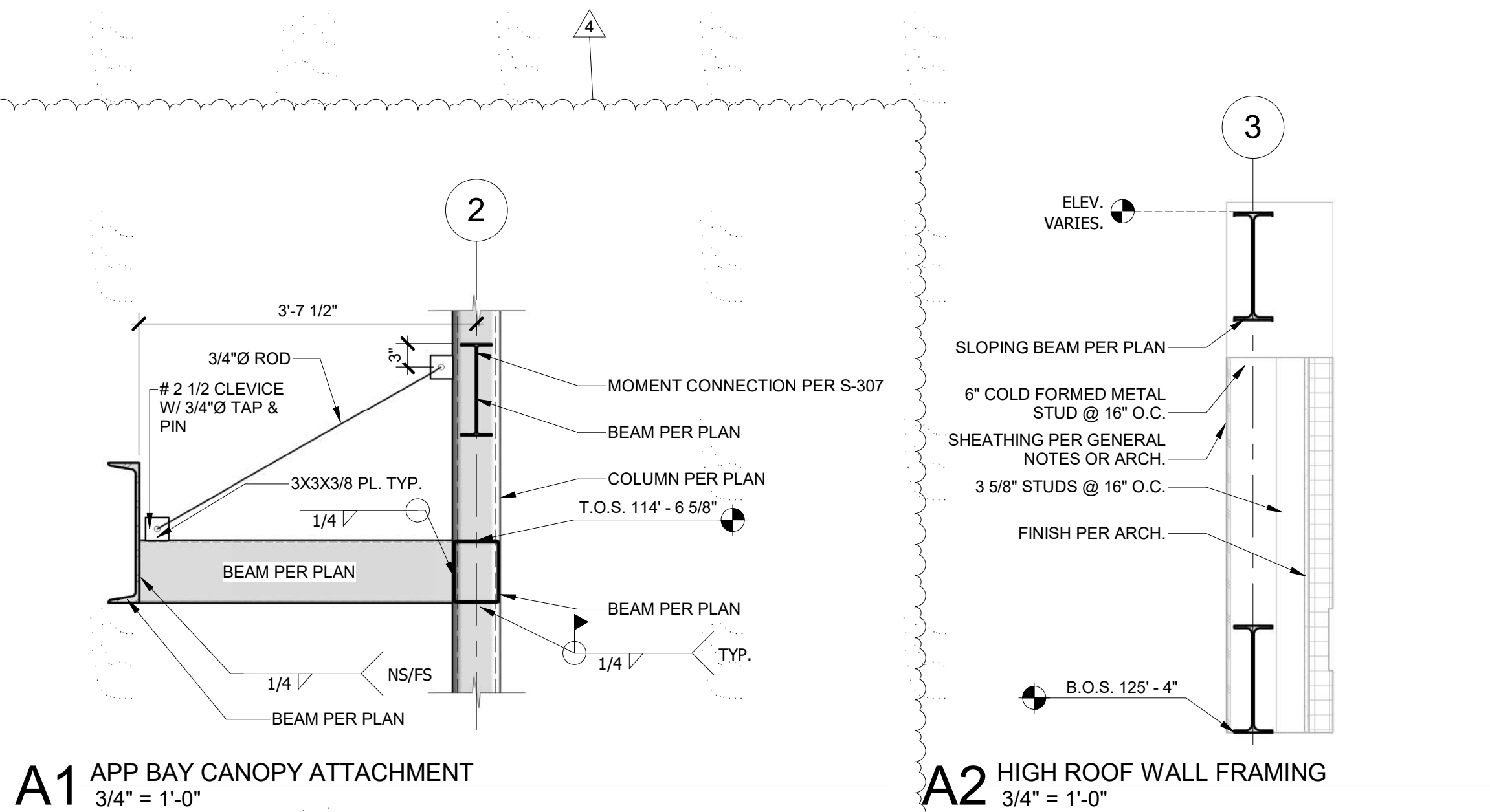
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A





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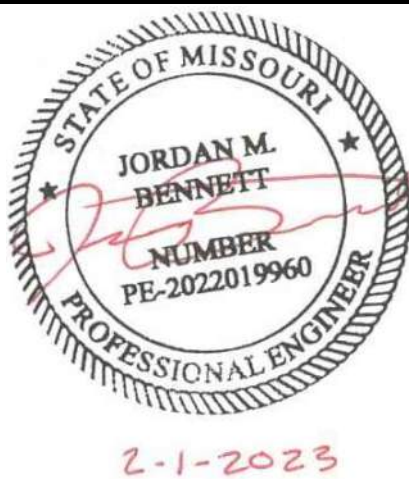
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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:		
#	Description	Date
1	ASB 01	11/16/2022
4	Rev 04 - ASB04	02/01/2023



PROJECT NO:	18225R21001
DATE:	02/01/2023
DRAWN BY:	JMB
CHKD BY:	WNH

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ROOF SECTIONS

**S-306**

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E

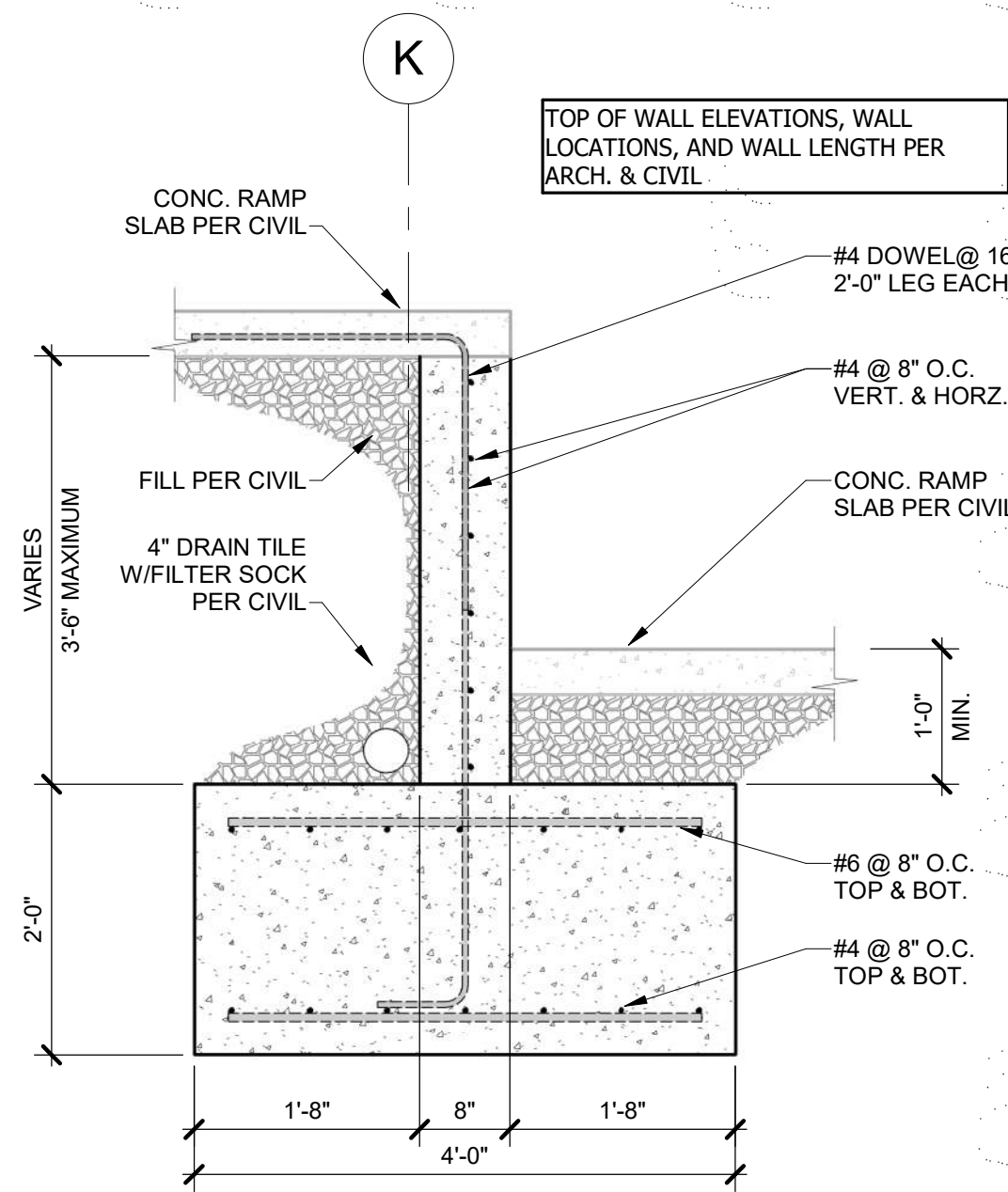
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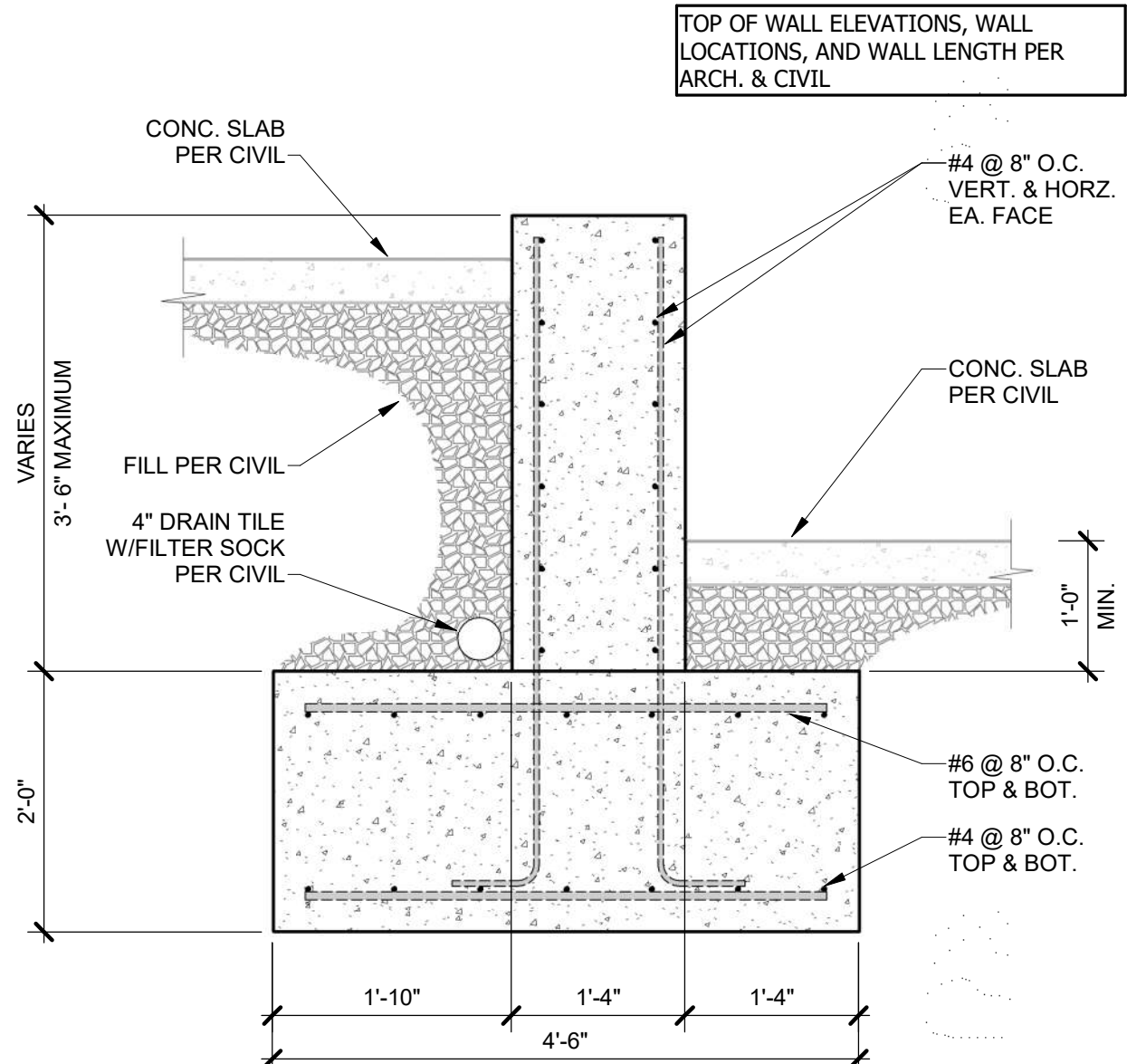
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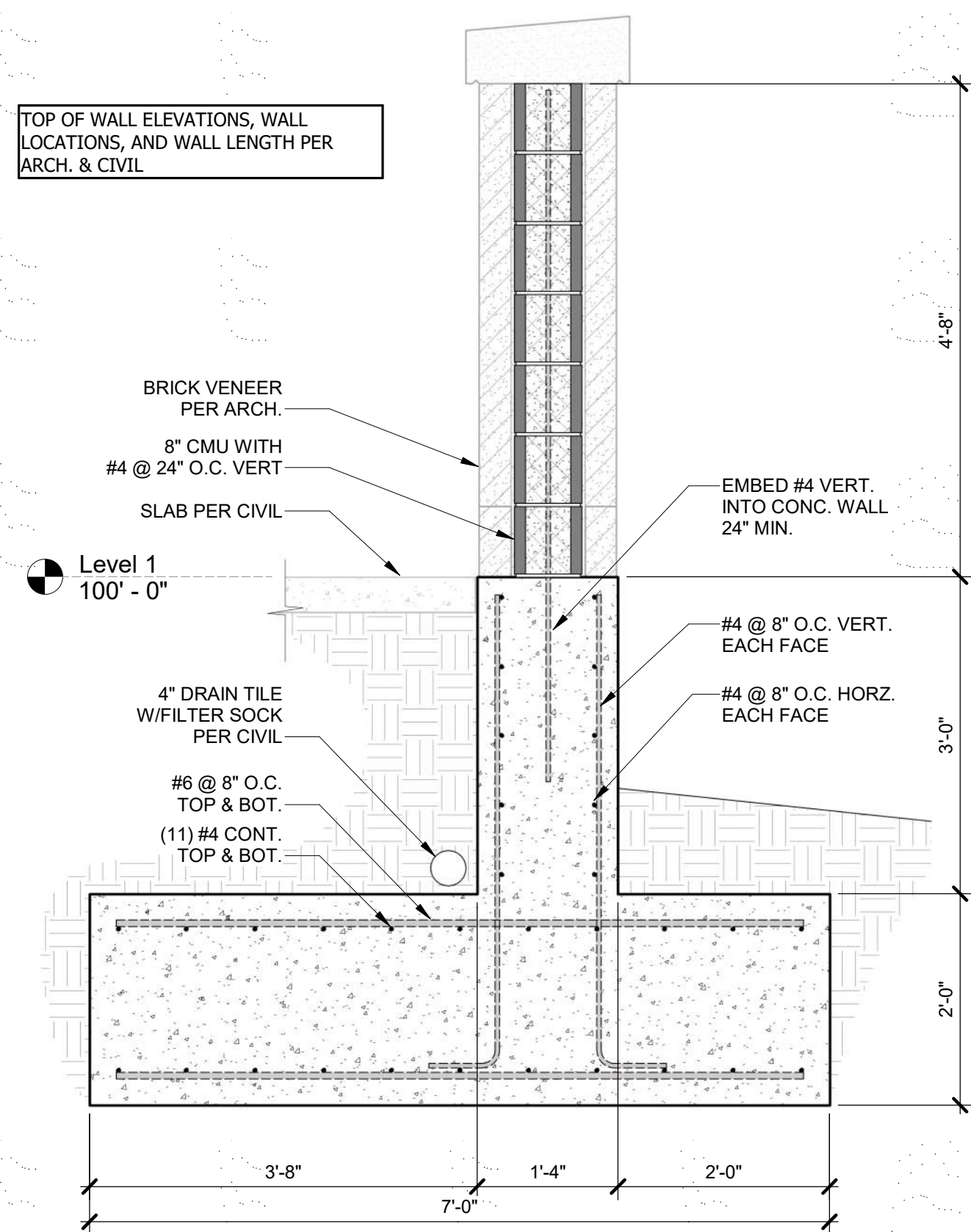
A2 RETAINING WALL BETWEEN RAMPS  
3/4" = 1'-0"



A4 TYPICAL RETAINING WALL SECTION  
3/4" = 1'-0"



A6 RETAINING WALL SECTION @ PATIO  
3/4" = 1'-0"



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FIRE STATION #5  
CITY OF LEE'S SUMMIT

801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
---	-------------	------



PROJECT NO: 18225R21001  
DATE: 02/01/2023  
DRAWN BY: JMB  
CHKD BY: WNH

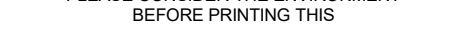
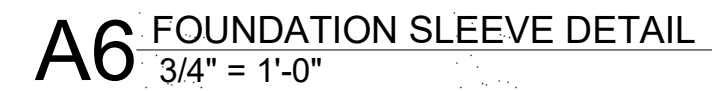
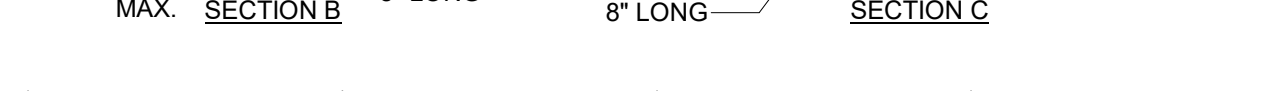
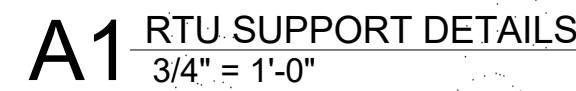
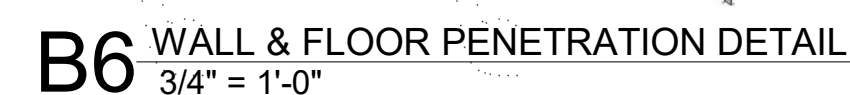
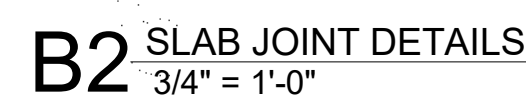
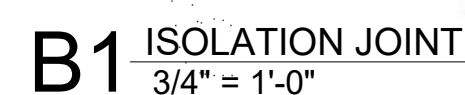
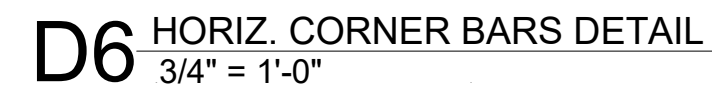
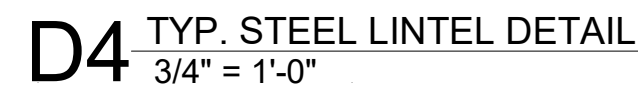
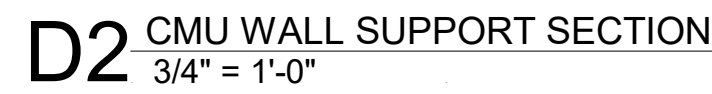
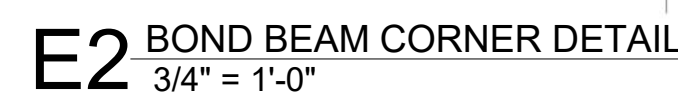
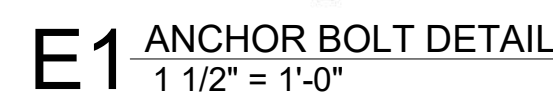
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RETAINING WALL  
SECTIONS

S-308

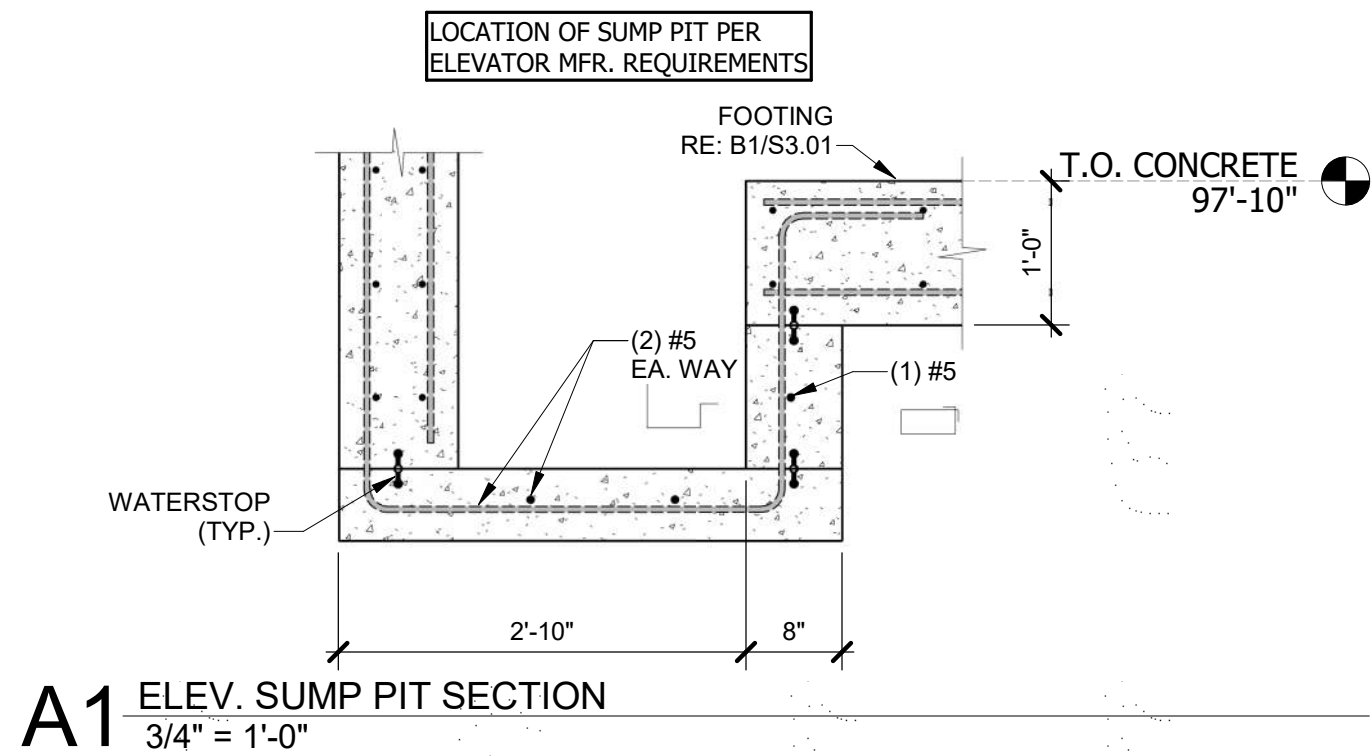
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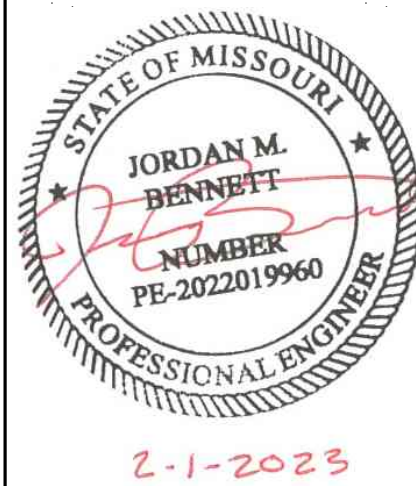
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KANSAS CITY, MO 64108  
(816) 663-8700

**FIRE STATION #5**  
CITY OF LEE'S SUMMIT  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
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PROJECT NO: 18225R21001

DATE: 02/01/2023

DRAWN BY: JMB

CHKD BY: WNH

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TYPICAL DETAILS

**S-501**

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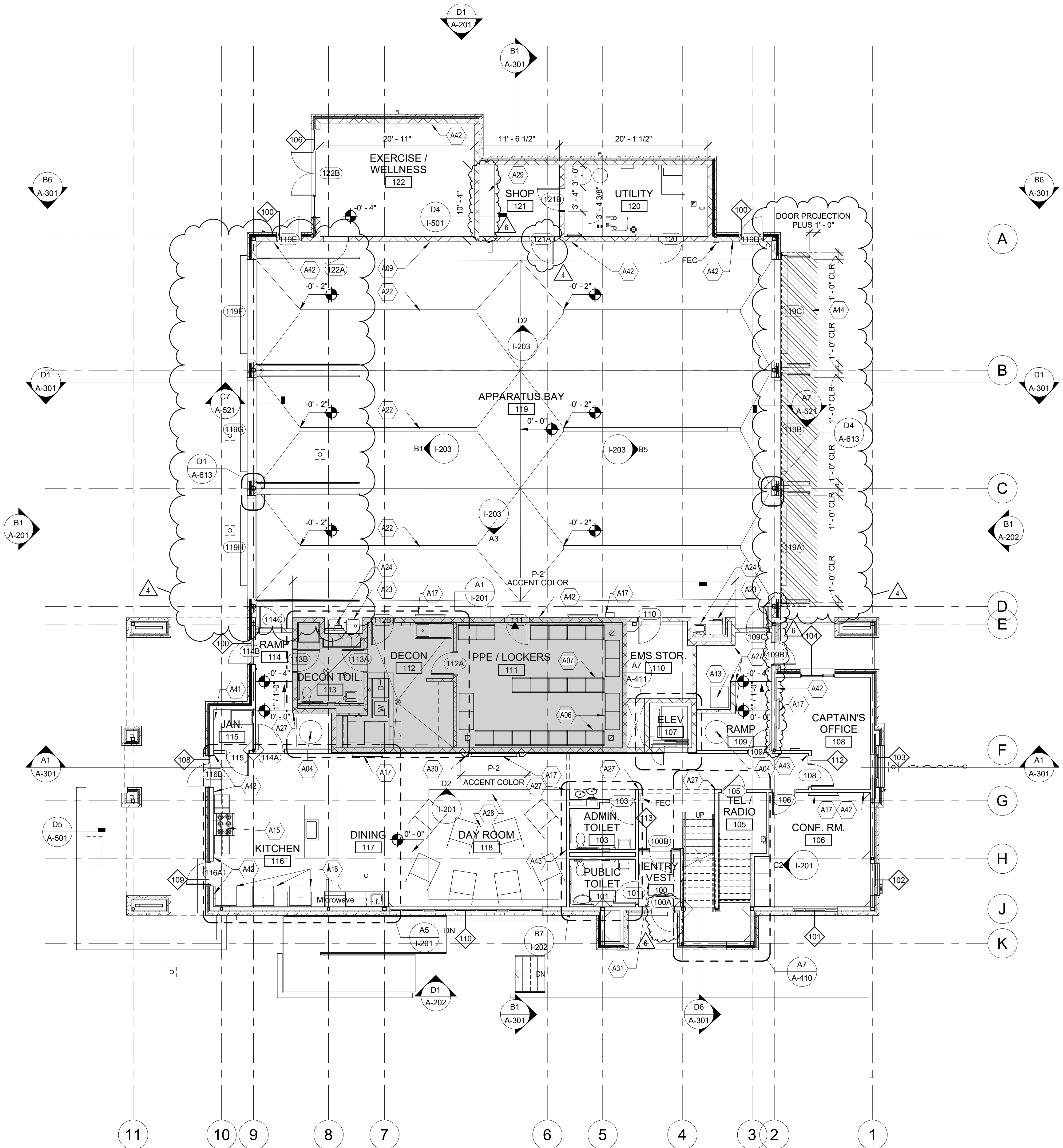
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A



**A3 FIRST FLOOR PLAN**  
1/8" = 1'-0"  
0 4' 8' 16'  
PLAN NORTH

**ARCH NOTES**

- A. THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO THE SITE, AND THE STORAGE OF MATERIALS AND EQUIPMENT ON SITE WITH THE OWNER.
- B. THE GENERAL CONTRACTOR SHALL REPAIR DAMAGE TO ANY ADJACENT AREAS OCCURRING DURING CONSTRUCTION.
- C. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS TRASH AND OTHER MISCELLANEOUS MATERIALS FROM THE SITE DAILY.
- D. MAINTAIN EXIT PATHS FOR THE DURATION OF THE CONSTRUCTION.
- E. CONTRACTOR SHALL NOT REPRODUCE ANY PORTION OF A CONTRACT DRAWING FOR USE IN ANY PORTION OF A SUBMITTAL.
- F. ALL DIMENSIONS ARE FROM THE FACE OF STUD FRAMING, FACE OF MASONRY, FACE OF CONCRETE, OR CENTER LINE OF STRUCTURAL STEEL (U.N.O.).
- G. ALL DOORS ARE LOCATED 8 INCHES FROM THE ADJACENT PERPENDICULAR STUD WALL FRAMING AND 8 INCHES FROM THE ADJACENT PERPENDICULAR CMU WALL FRAMING TO THE HINGE SIDE OF THE DOOR OPENING (U.N.O.).
- H. COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES, ETC. PRIOR TO INSTALLATION OF FINISH MATERIAL.
- I. ALL A.D.A. ACCESSIBLE WATER CLOSETS MUST BE LOCATED 18 INCHES MINIMUM FROM THE FINISHED FACE OF THE NEAREST ADJACENT WALL TO THE CENTER LINE OF THE FIXTURE (U.N.O.).
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- K. PROVIDE SEALANT IN FLOOR JOINTS OF EXPOSED FINISHES PER FLOOR COATING MANUFACTURER'S RECOMMENDATIONS.
- L. SEE SHEET A-601 FOR PARTITION TYPES (REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL PARTITION IDENTIFICATION).
- M. REFER TO STRUCTURAL NOTES FOR ALL CAST-IN-PLACE CONCRETE AND MASONRY CONTROL JOINTS.

**FLOOR PLAN KEYNOTES**

KEY	DESCRIPTION
A01	ROOFTOP ACCESS LADDER AND ACCESS HATCH
A04	SLIDING POLE UNIT (1 HR RATED)
A06	30"-WIDE, WALL-HUNG "GEAR GRID" LOCKERS
A07	30"-WIDE, FREE-STANDING "GEAR GRID" LOCKERS
A09	GEAR GRID WALL-MOUNT HOSE DRYER, OFCI
A11	HEAVY-DUTY RESIDENTIAL WASHER, OFCI
A12	HEAVY-DUTY RESIDENTIAL DRYER, OFCI
A13	ICE MACHINE, CFCI
A15	6-BURNER RANGE W/ OVEN & RESIDENTIAL HOOD W/ INTEGRAL FIRE SUPPRESSION
A16	RESIDENTIAL REFRIGERATOR, OFOI
A17	WALL-MOUNTED TV, OFOI. BLOCKING AND TV BRACKET, CFCI
A22	TRENCH DRAIN, SEE PLUMBING
A23	BOOT WASH, SEE PLUMBING
A24	HAND WASHING SINK FOR CONTAMINANT CONTROL W/ EYEWASH ATTACHMENT, SEE PLUMBING
A26	CAR WASH SYSTEM INTEGRATED INTO THIS BAY, SEE PLUMBING
A27	VINYL CORNER GUARD AT EXTERIOR CORNER - FULL WALL HEIGHT
A28	CARPET TILE TO LAY ON TOP OF POLISHED CONC FLOOR
A30	GYP. BD. SURROUND TO CREATE TV NICHE
A31	RECESSED SLAB AT ENTRY FOR RECESSED W.O.M.
A41	MOP AND BROOM RACK
A42	P-2 - ACCENT COLOR
A43	P-3 - ACCENT COLOR
A44	DOOR OPERATING AND SAFETY CLEARANCE.

**FLOOR PLAN NOTES**

■ EXTEND OF STORM SHELTER, SEE G-004 FOR MORE INFORMATION

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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
1	ASB 01	11/21/2022
4	ASB 04	02/01/2023
6	ASB 06	02/22/2023



CHAD R. BARD - ARCHITECT  
MO# A-2018024473

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DRAWN BY: JSP  
CHK'D BY: GLW

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**FIRST FLOOR PLAN**

**A-101**

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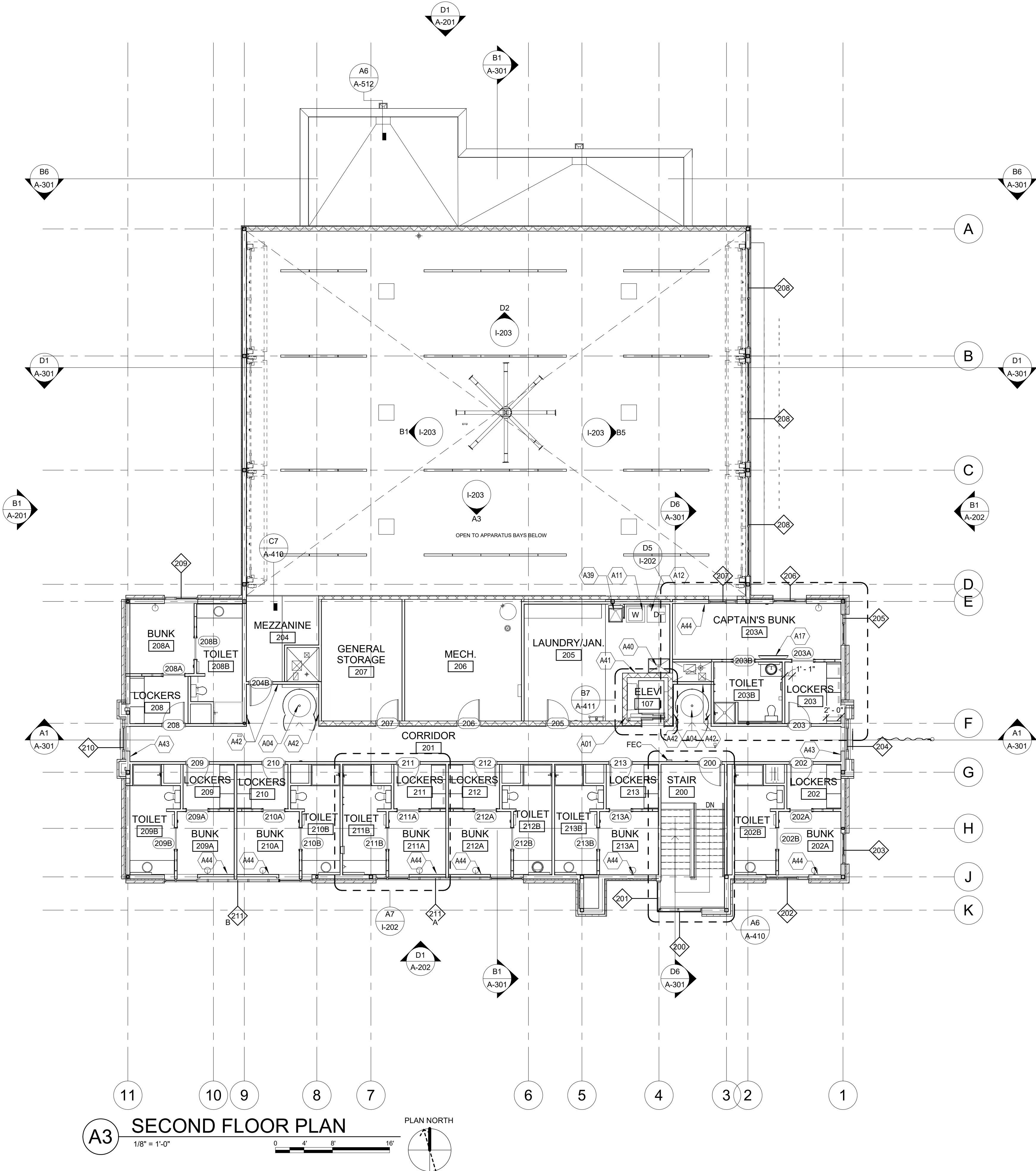
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## FLOOR PLAN KEYNOTES.

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A39	UTILITY SINK
A40	MOP SINK
A41	MOP AND BROOM RACK
A42	P-2 - ACCENT COLOR
A43	P-3 - ACCENT COLOR
A44	P-4 - ACCENT COLOR



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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

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PAUL J. MICHELL - ARCHITECT  
MO# A-2009021701

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CHK'D BY: PJM

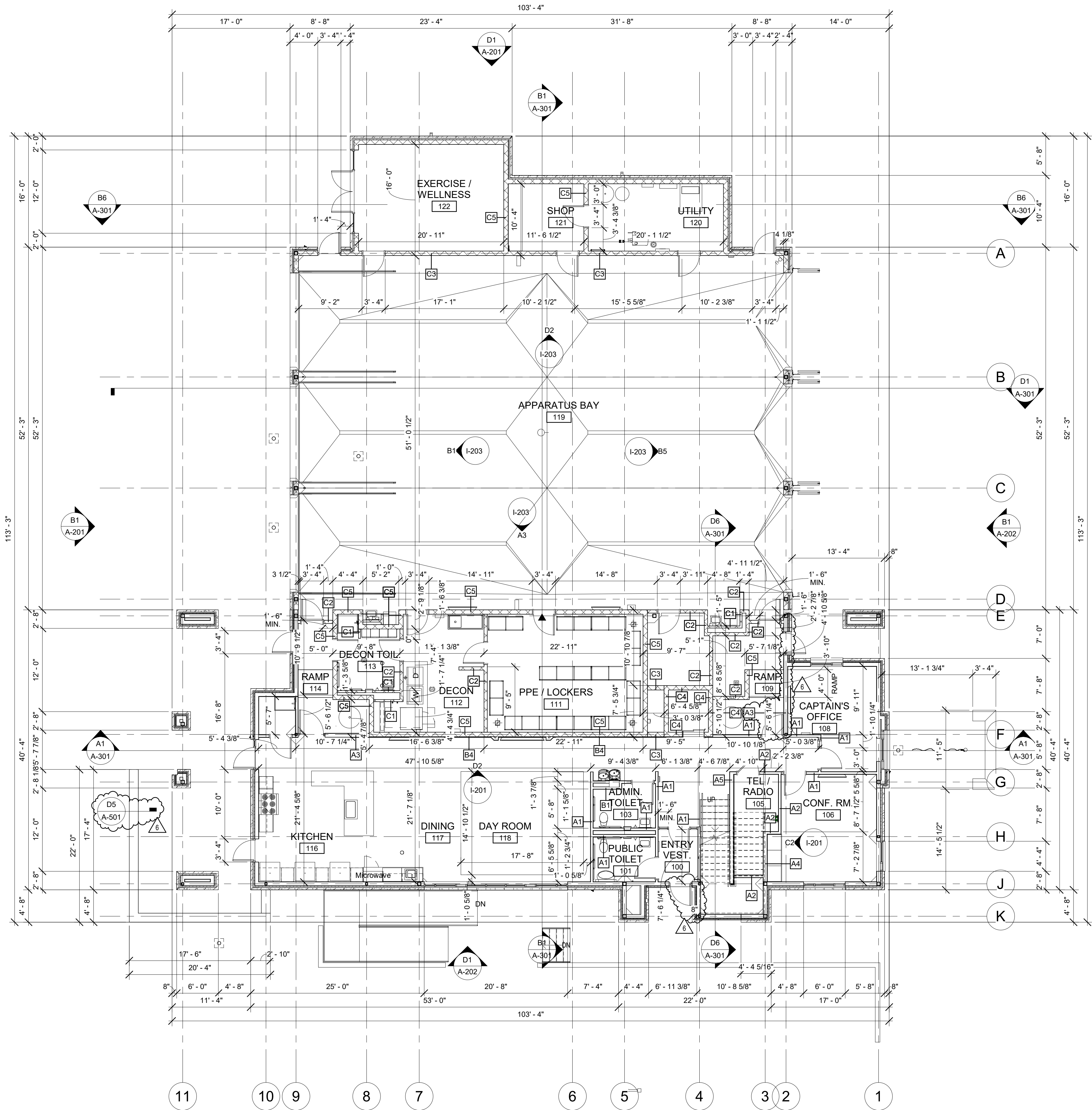
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**SECOND FLOOR PLAN**

**A-102**

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**A3 FIRST FLOOR DIMENSION PLAN**  
1/8" = 1'-0"

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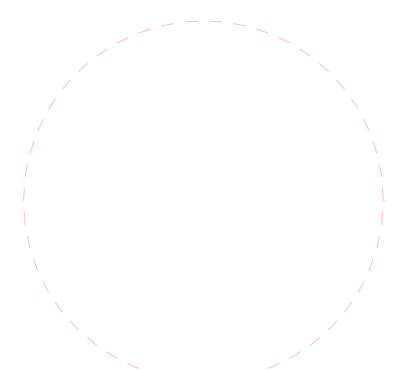
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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
**801 MISSOURI HIGHWAY 150**  
**LEE'S SUMMIT, MISSOURI 64082**

REVISIONS:

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MO# A-2018024473

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DRAWN BY:	JSP
CHK'D BY:	CRB

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**FIRST FLOOR**  
**DIMENSION PLAN**

**A-103**



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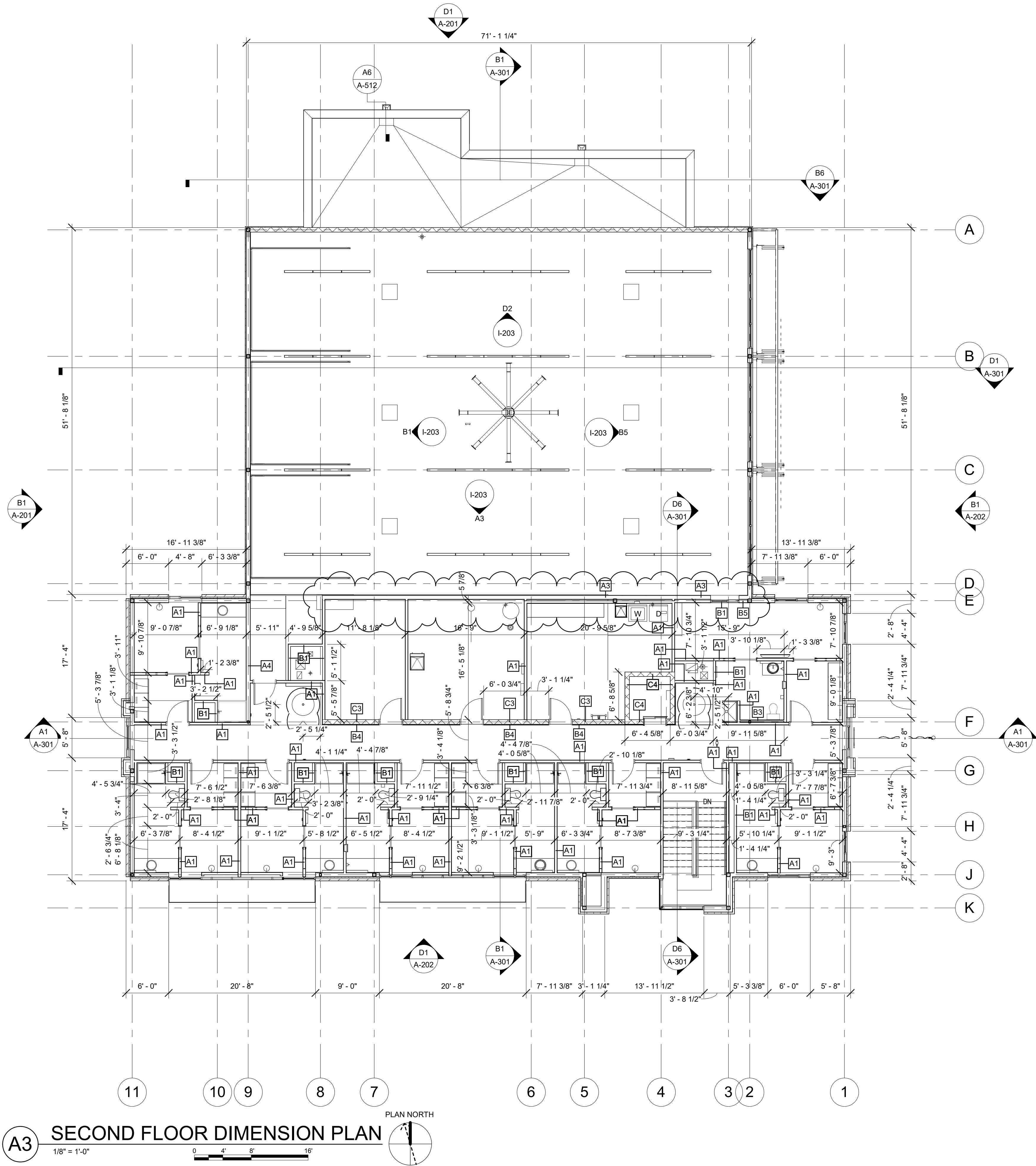
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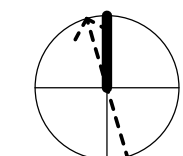
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**SECOND FLOOR**  
**DIMENSION PLAN**

**A-104**

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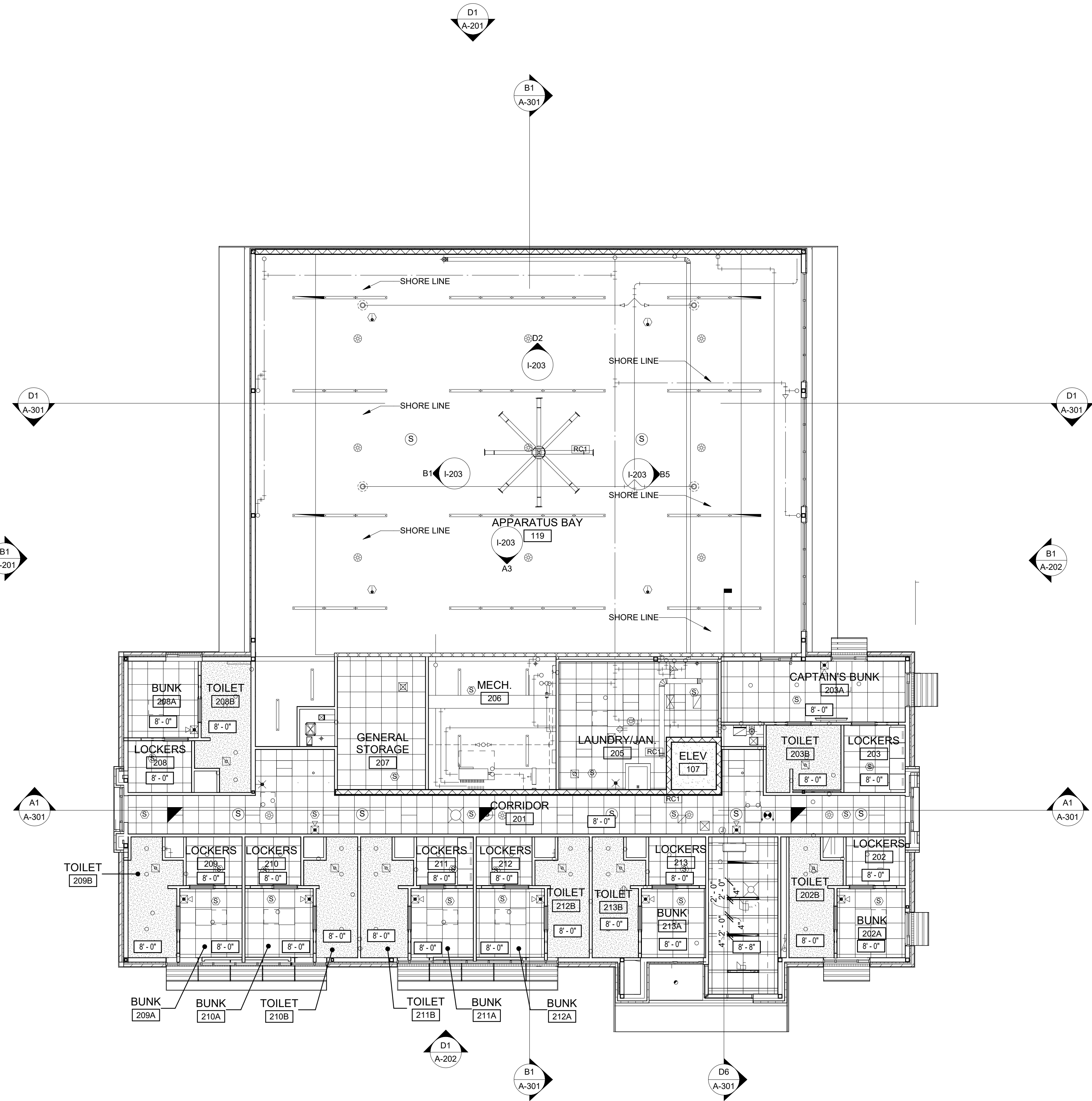
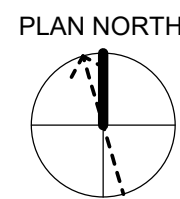
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A1 LEVEL 2 CEILING PLAN

1/8" = 1'-0"

0 4' 8' 16'



CEILING PLAN LEGEND

	PLASTER, GYPSUM OR PORTLAND CEMENT		LIGHT FIXTURE, RECESSED FLUORESCENT A (2x4)
	TILE, ACOUSTICAL CEILING		LIGHT FIXTURE, RECESSED FLUORESCENT B (1x4)
	SHEET METAL		LIGHT FIXTURE, RECESSED FLUORESCENT C (1x8)
	CEILING ELEVATION TAG		LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT A (2x4)
	PENDANT HEAD SPRINKLERS		LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT B (1x4)
	ACCESS DOOR (AD) OR ACCESS PANEL (AP)		LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT C (1x8)
	RETURN AIR, CEILING		EMERGENCY LIGHTING, ONE EMERGENCY BATTERY POWER
	SUPPLY AIR, CEILING		EMERGENCY LIGHTING, THREE EMERGENCY BATTERY POWER
	LIGHT FIXTURE, FLUORESCENT EMERGENCY		HEAT DETECTOR
	EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROW		SMOKE DETECTOR
	LIGHT FIXTURE, INCANDESCENT, CEILING MOUNTED		
	LIGHT FIXTURE, 4' LED LINEAR RECESSED BASIS OF DESIGN: MANUFACTURER = FOCAL POINT MODEL = SEEM 4, 1.5" POP		
	LIGHT FIXTURE, 2' LED LINEAR RECESSED BASIS OF DESIGN: MANUFACTURER = FOCAL POINT MODEL = SEEM 4, 1.5" POP		

SHEET NOTES

- SEE ROOM FINISH SCHEDULE SHEET I-601 FOR CEILING TYPES AND MATERIALS IN EACH ROOM/AREA.
- PERIMETER TRACK FOR ALL ACOUSTICAL CEILING GRIDS SHALL BE INSTALLED IN ACCORDANCE WITH IBC AND CISCA GUIDELINES.
- ALL DIMENSIONS ARE FROM FACE OF FINISH MATERIAL.
- CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION.
- CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. SEE INTERIOR ELEVATIONS FOR SOFFIT HEIGHTS ABOVE CASEWORK, U.N.O.
- SEE ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING, AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH CEILING LAYOUT SHOWN ON THIS SHEET.
- LIGHT FIXTURES, HVAC DIFFUSERS, AND SPECIAL SYSTEMS ARE SHOWN FOR POSITIONING WITHIN FINISH CEILING LAYOUT. COORDINATE WITH ELECTRICAL, MECHANICAL, AND SPECIAL SYSTEMS DRAWINGS FOR FIXTURE TYPES, LOCATIONS, SIZES, AND SCHEDULES.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS INDICATED.
- CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, GENERAL ALARM, AND MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED, U.N.O..
- INSTALL ACCESS PANELS IN GYP BD CEILINGS AT DUCT DAMPER CONTROLS, DUCT MOUNTED SMOKE DETECTORS, MANUAL DUCT CONTROLS, ETC.
- LIGHT FIXTURES LOCATED AT STAIRS SHALL OCCUR AT EACH FLOOR AND INTERMEDIATE LANDINGS.
- LOCATE SPRINKLER HEADS IN THE CENTER ZONE OF THE CEILING TILE. ALIGN CORRIDOR SPRINKLER HEADS IN THE SAME LINE PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION.



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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

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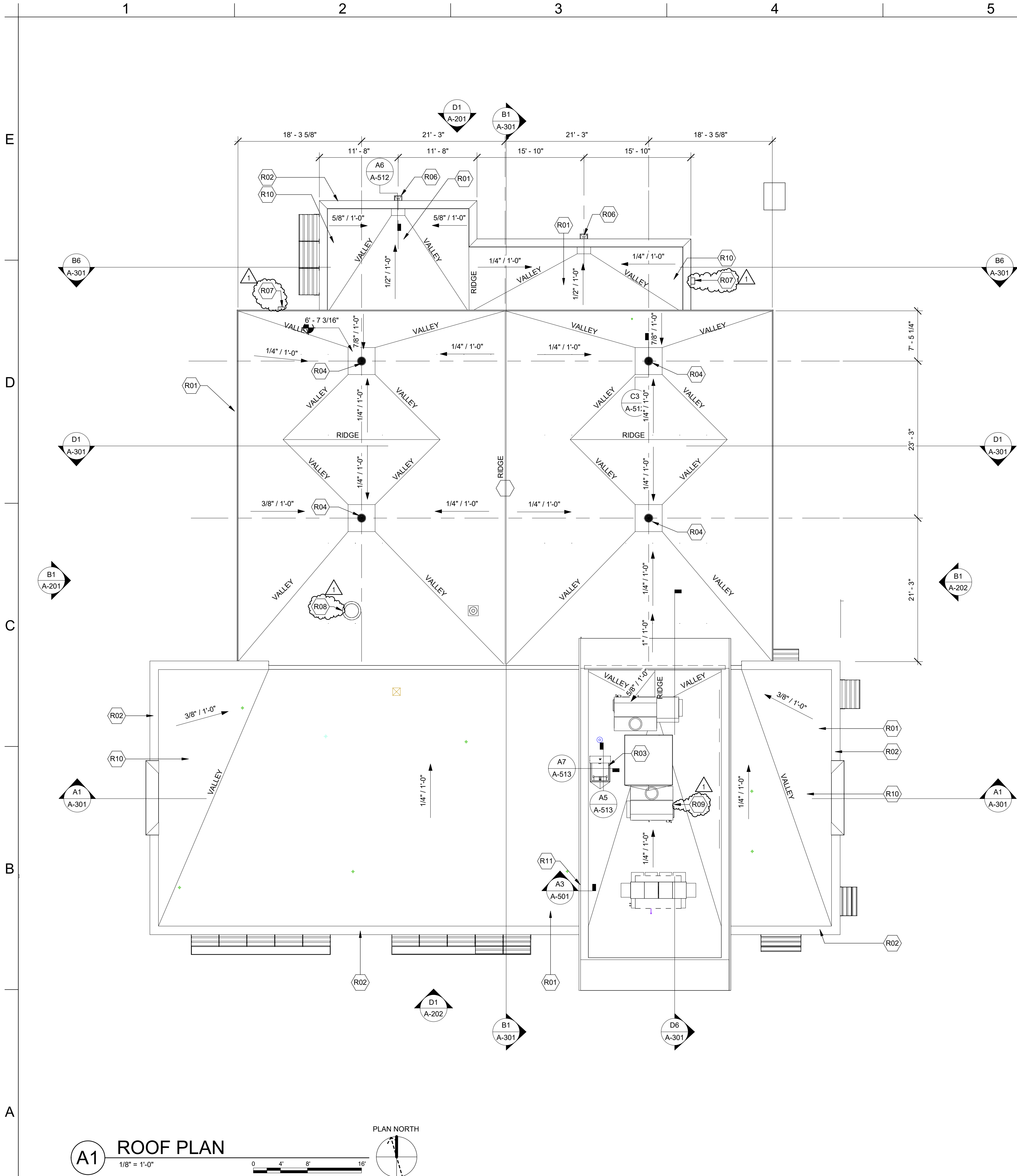
SECOND FLOOR  
REFLECTED  
CEILING PLAN

A-112

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ROOF PLAN KEYNOTES	
KEY	DESCRIPTION
R01	FULLY ADHERED TPO ROOFING ON 1/2" RECOVERY BD.
R02	PRE-FINISHED SHEET METAL PARAPET CAP
R03	PRE-FABRICATED ROOF HATCH
R04	INTERNAL ROOF DRAIN (RE: PLMG.)
R05	PRE-FINISHED SHEET METAL DOWNSPOUT & CONDUCTOR HEAD
R07	EXTERIOR WALL-MOUNTED LIGHT FIXTURE (RE: ELECT.)
R08	ROOF-MOUNTED EXHAUST FAN (RE: MECH. & ELECT.)
R09	ROOF-MOUNTED MECHANICAL EQUIP. (RE: MECH. & ELECT.)
R10	TAPERED RIGID INSUL. ROOF CRICKET
R11	24"x30" METAL ACCESS DOOR



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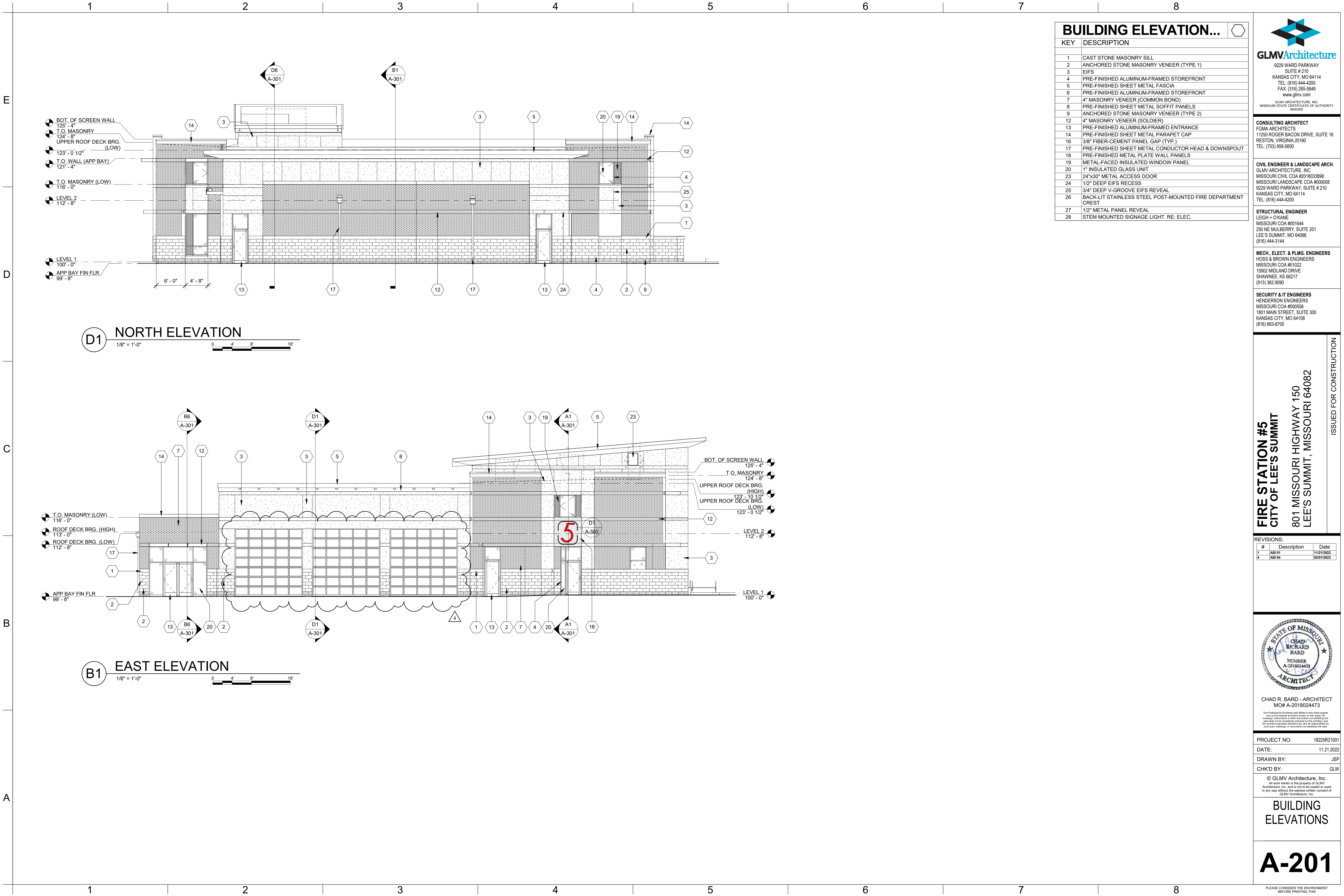
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**ROOF PLAN**

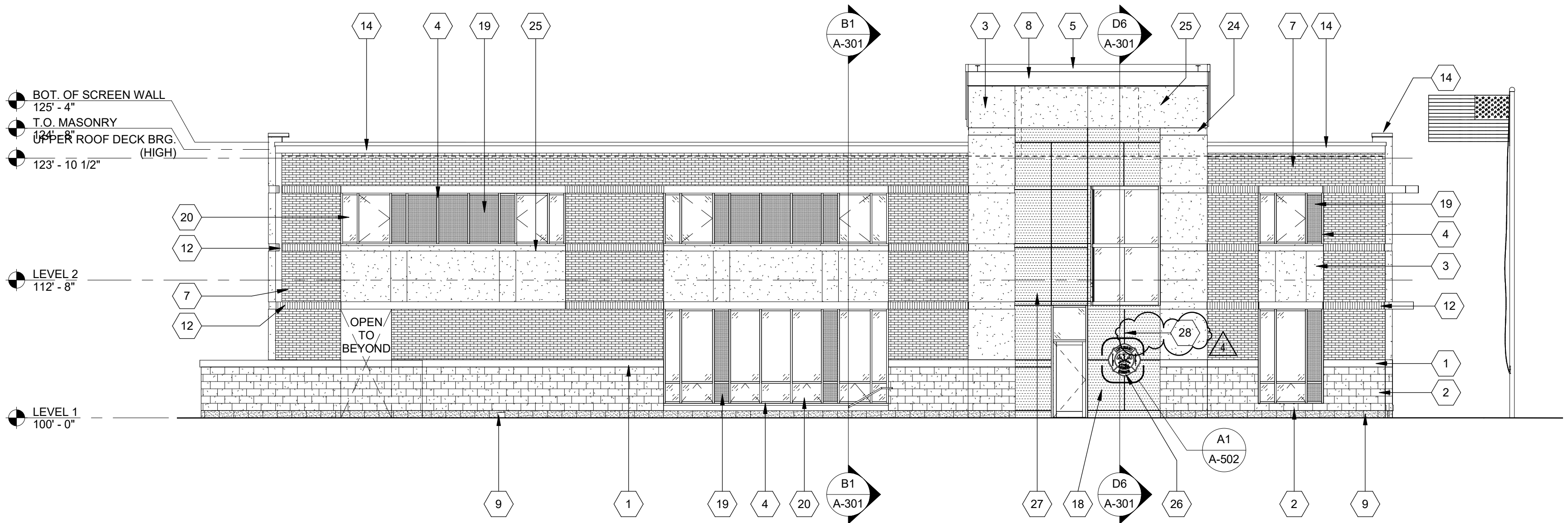
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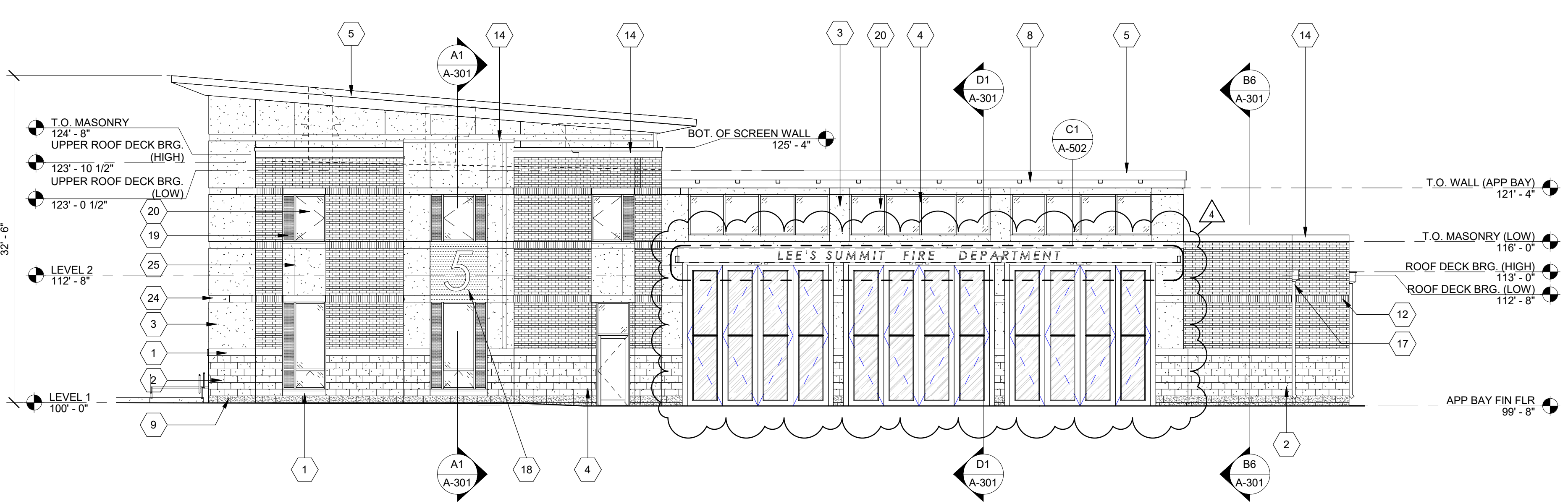








**D1 SOUTH ELEVATION**  
1/8" = 1'-0"  
0 4' 8' 16'



**B1 WEST ELEVATION**  
1/8" = 1'-0"  
0 4' 8' 16'

BUILDING ELEVATION...	
KEY	DESCRIPTION
1	CAST STONE MASONRY SILL
2	ANCHORED STONE MASONRY VENEER (TYPE 1)
3	EIFS
4	PRE-FINISHED ALUMINUM-FRAMED STOREFRONT
5	PRE-FINISHED SHEET METAL FASCIA
6	PRE-FINISHED ALUMINUM-FRAMED STOREFRONT
7	4" MASONRY VENEER (COMMON BOND)
8	PRE-FINISHED SHEET METAL SOFFIT PANELS
9	ANCHORED STONE MASONRY VENEER (TYPE 2)
12	4" MASONRY VENEER (SOLDIER)
13	PRE-FINISHED ALUMINUM-FRAMED ENTRANCE
14	PRE-FINISHED SHEET METAL PARAPET CAP
16	3/8" FIBER-CEMENT PANEL GAP (TYP.)
17	PRE-FINISHED SHEET METAL CONDUCTOR HEAD & DOWNSPOUT
18	PRE-FINISHED METAL PLATE WALL PANELS
19	METAL-FACED INSULATED WINDOW PANEL
20	1" INSULATED GLASS UNIT
23	24"x30" METAL ACCESS DOOR
24	1/2" DEEP EIFS RECESS
25	3/4" DEEP V-GROOVE EIFS REVEAL
26	BACK-LIT STAINLESS STEEL POST-MOUNTED FIRE DEPARTMENT CREST
27	1/2" METAL PANEL REVEAL
28	STEM MOUNTED SIGNAGE LIGHT, RE: ELEC.



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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
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**LEE'S SUMMIT, MISSOURI 64082**

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4	ASH 04	02/01/2023

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CHAD RICHARD BARD  
NUMBER A-2018024473  
ARCHITECT

CHAD R. BARD - ARCHITECT  
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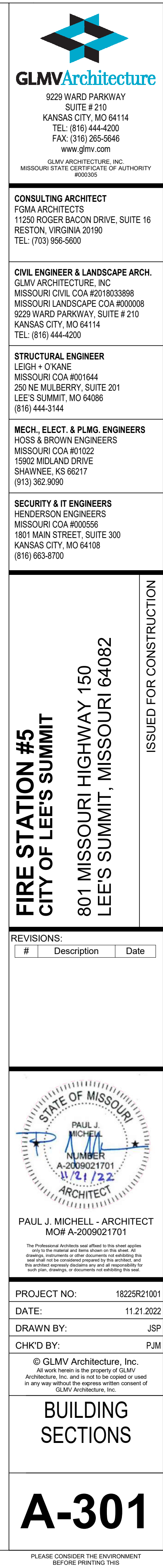
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**BUILDING ELEVATIONS**

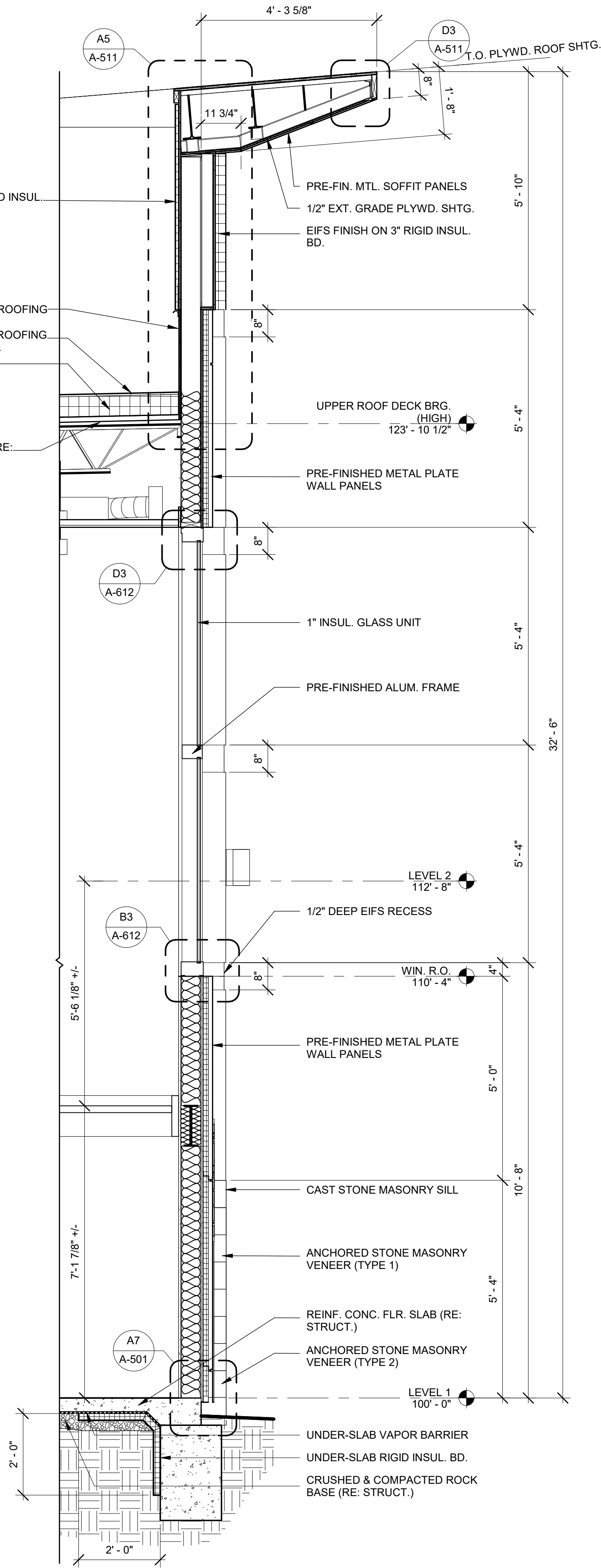
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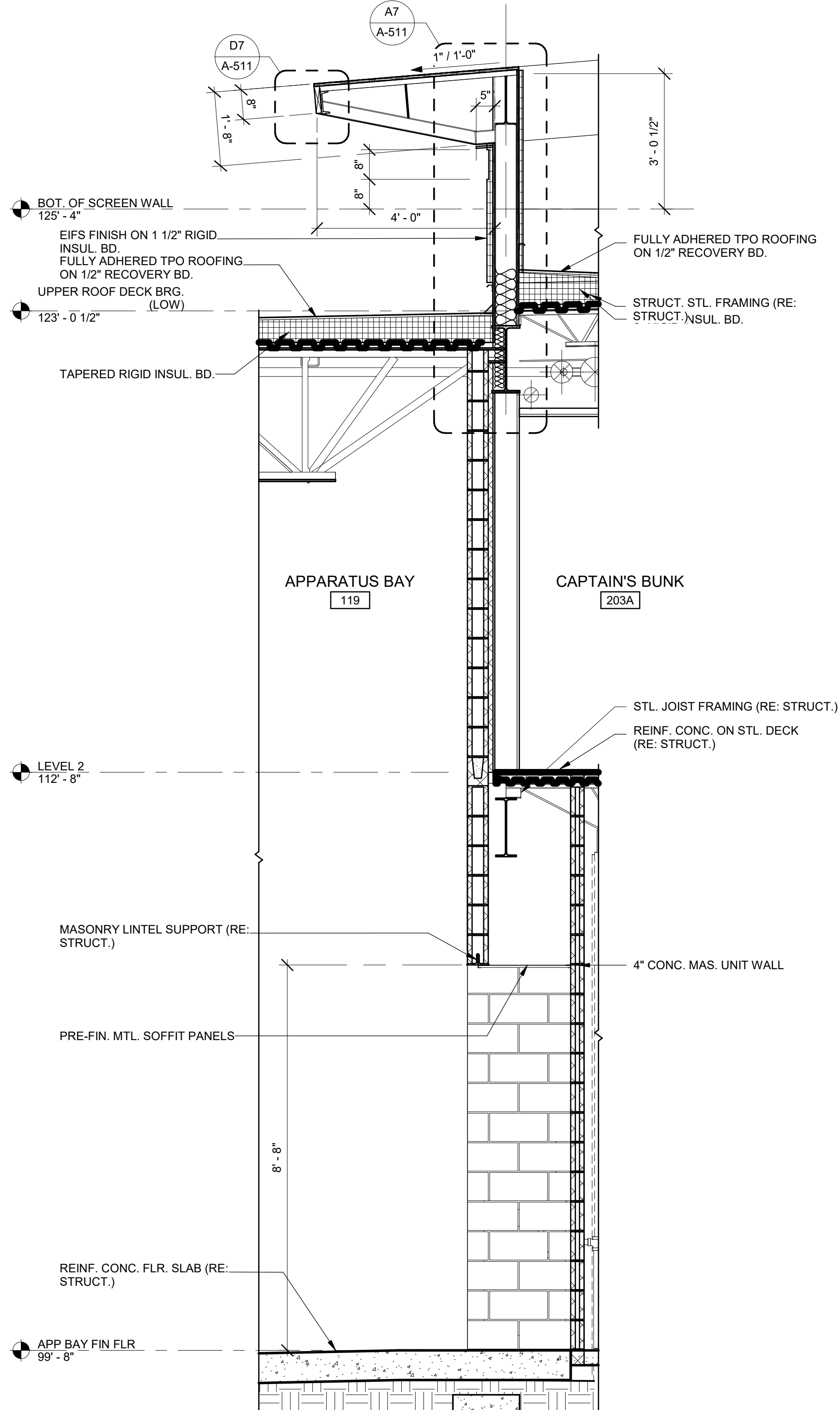
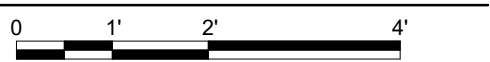




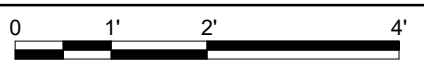
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**A1** STAIR SECTION  
1/2" = 1'-0"



**A6** WALL SECTION  
1/2" = 1'-0"



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**WALL SECTIONS**

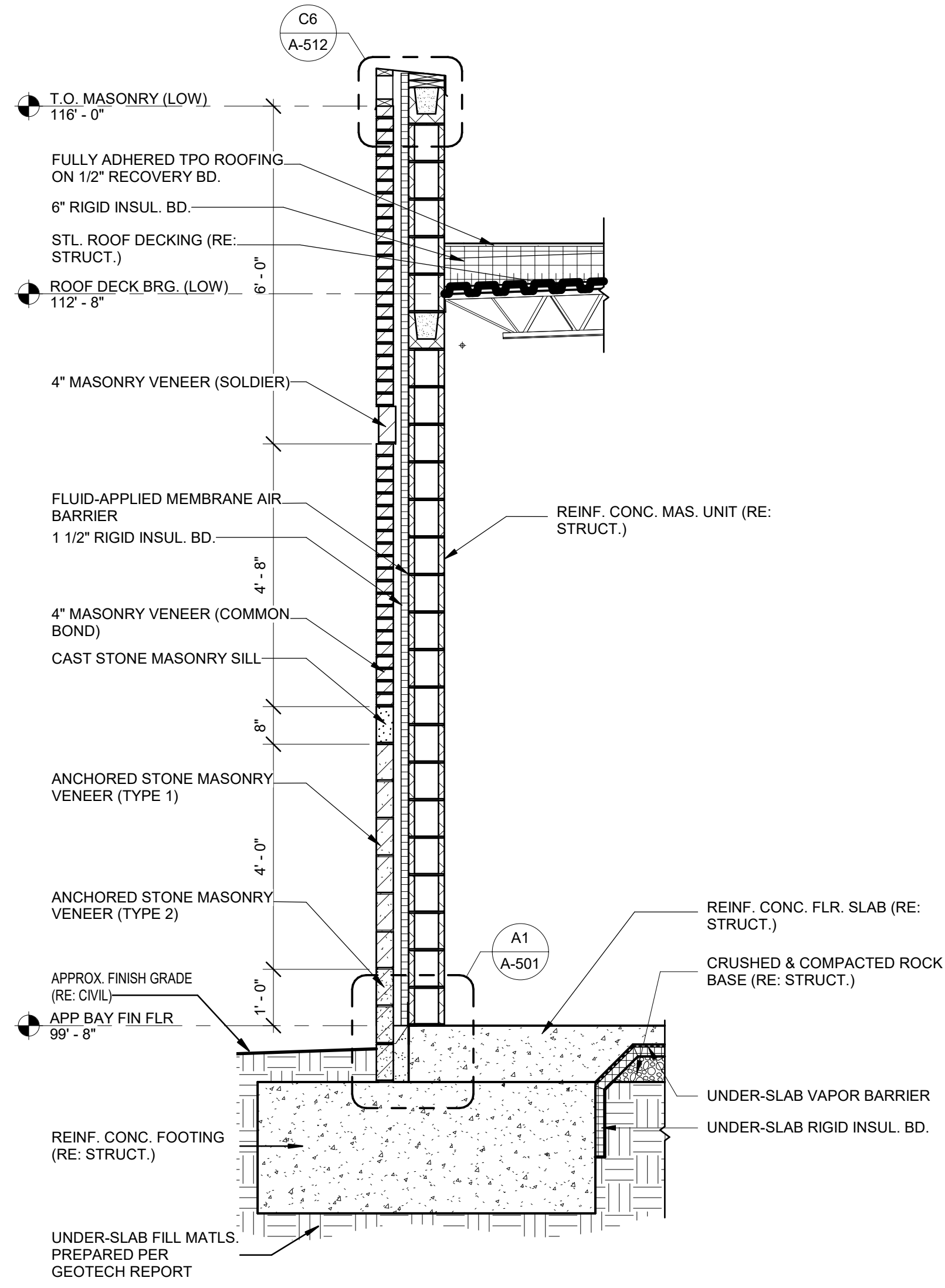
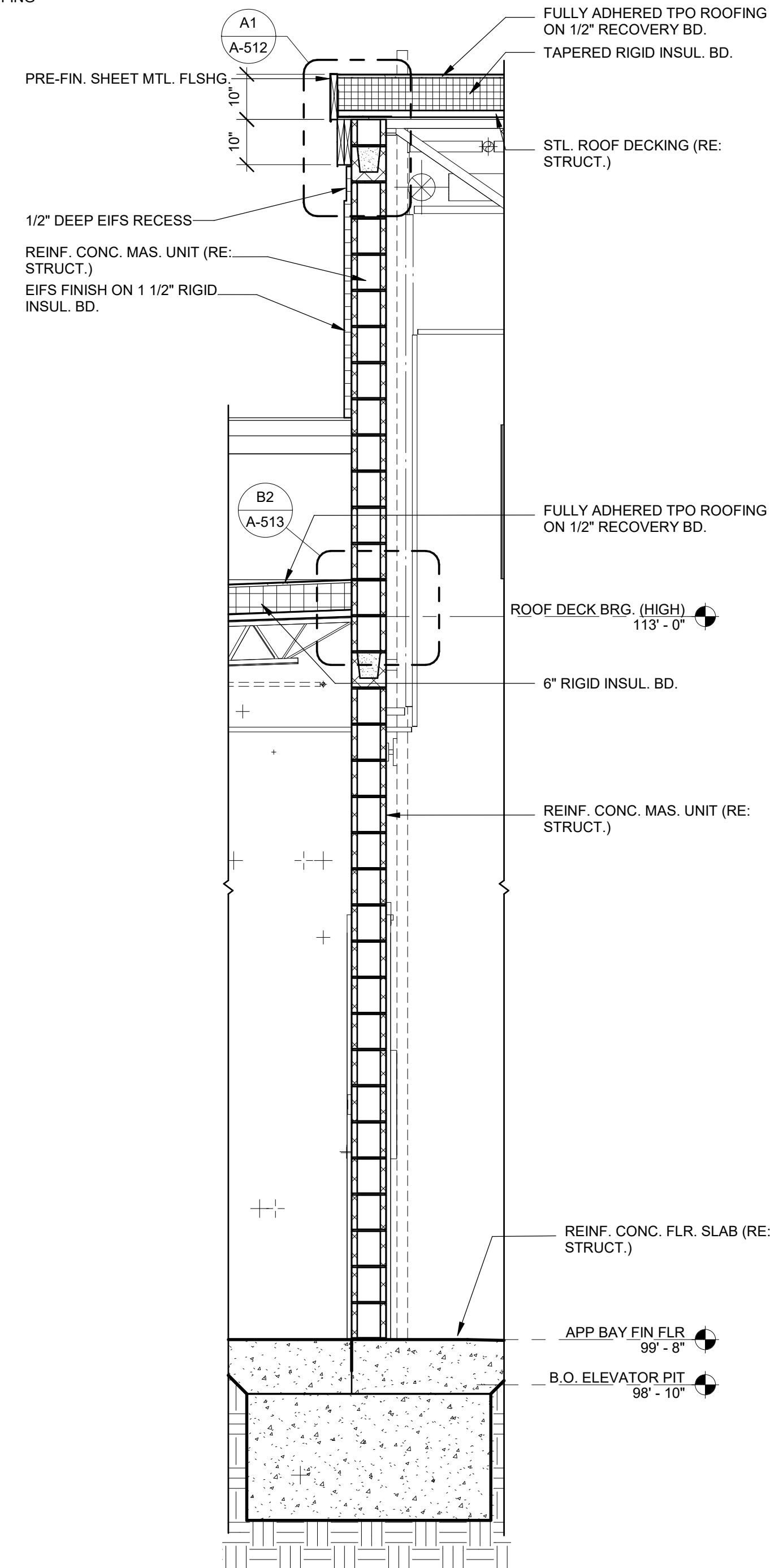
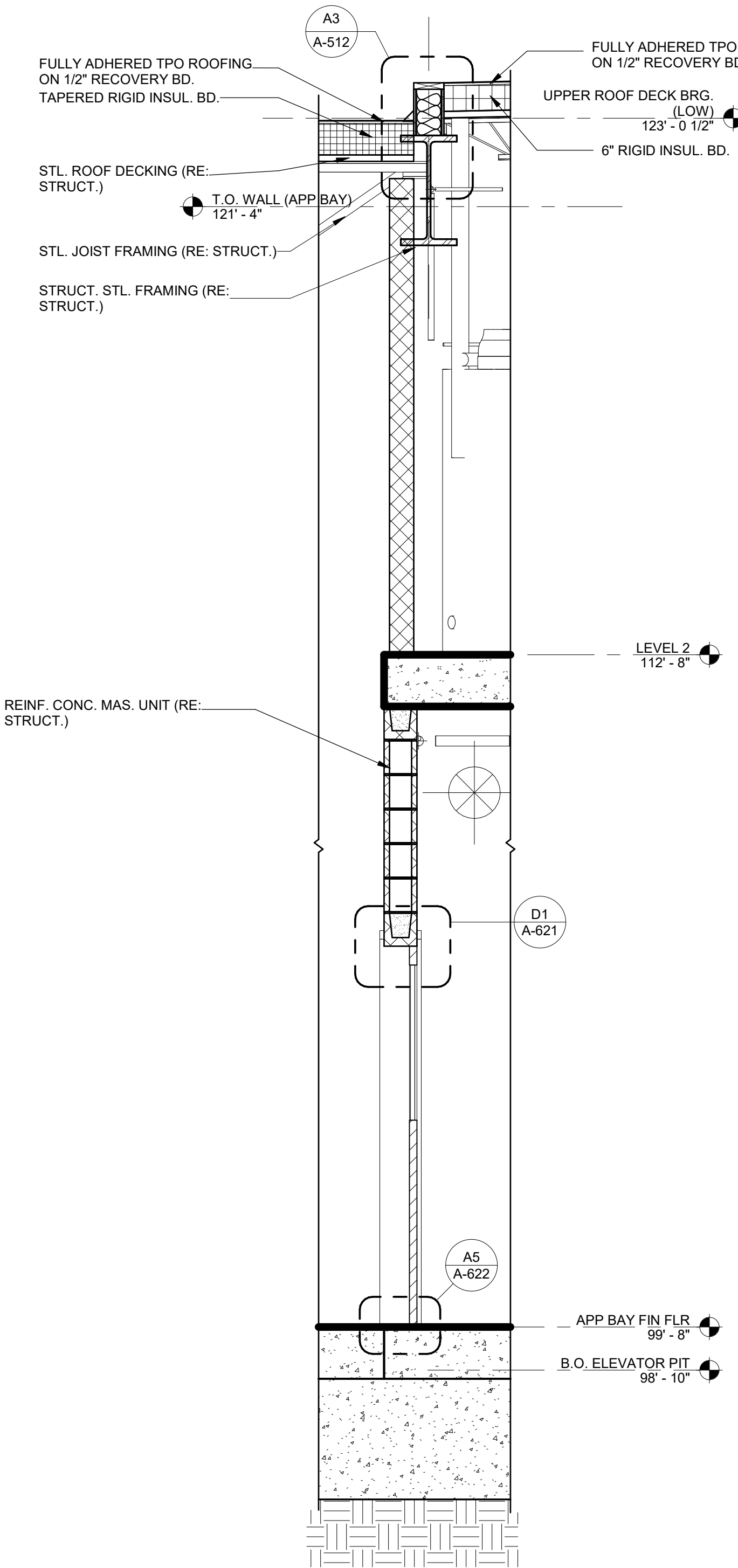
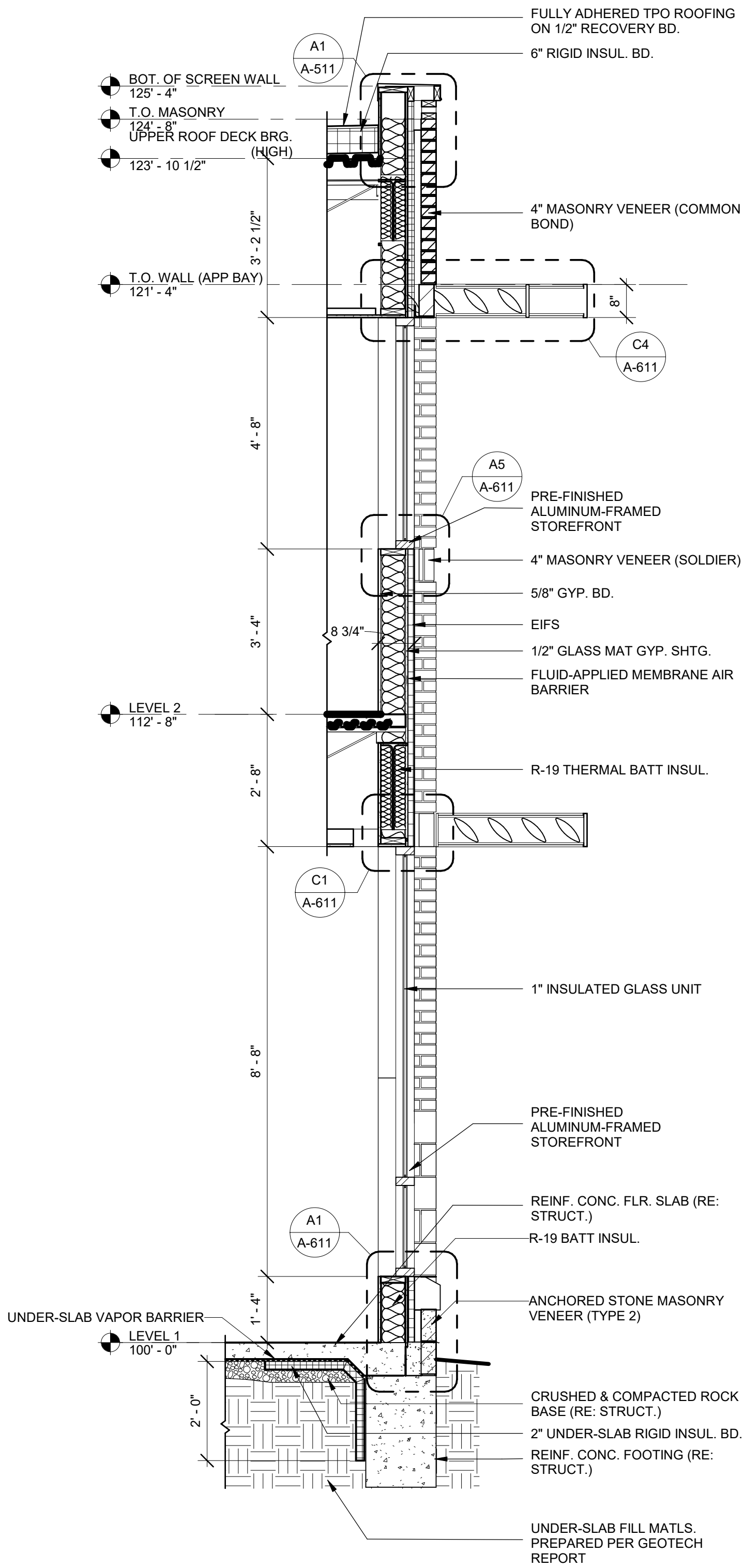
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E  
D  
C  
B  
A



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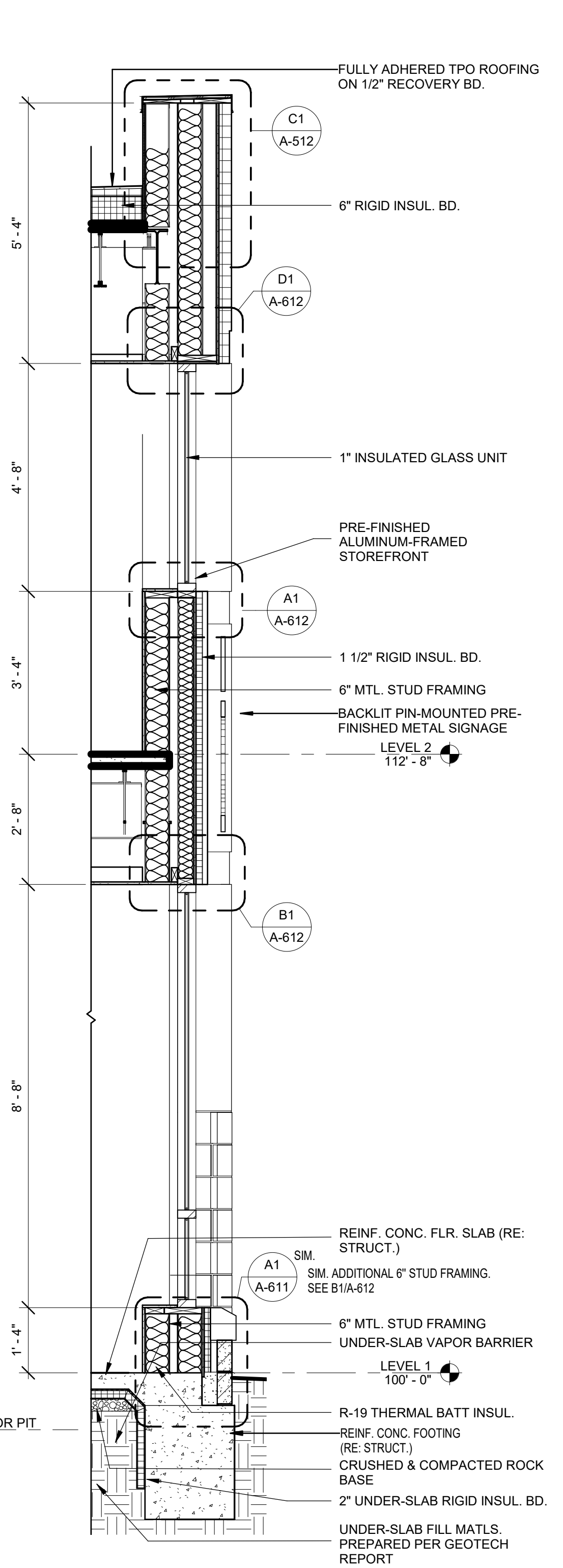
**WALL SECTIONS**

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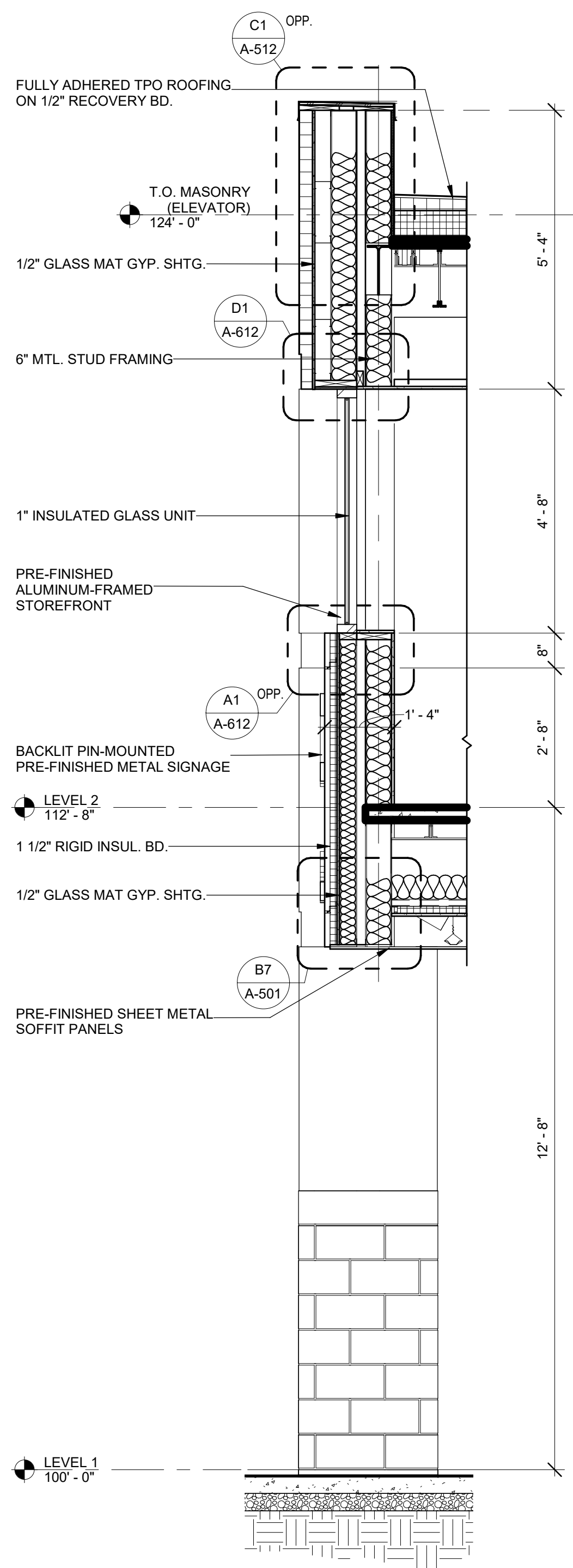
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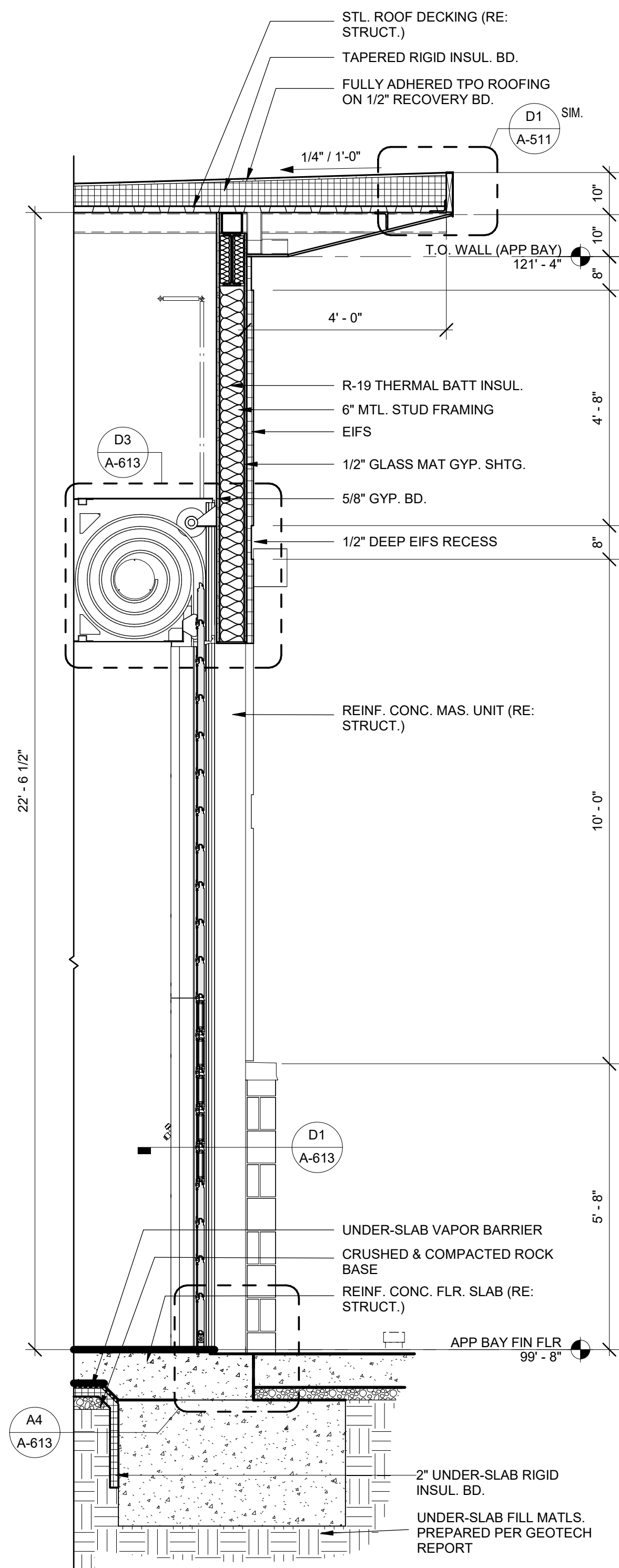
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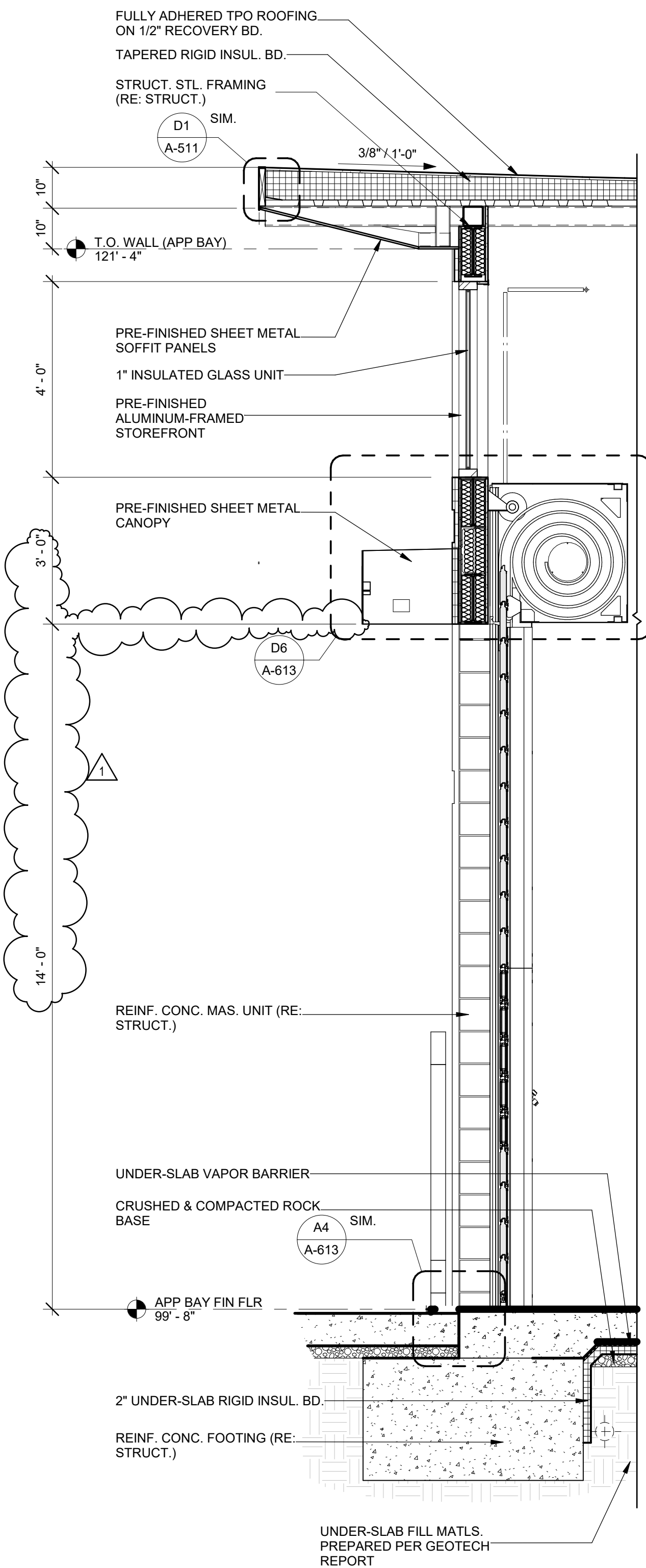
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A3 WALL SECTION

1/2" = 1'-0"

0 1' 2' 4'



A4 WALL SECTION

1/2" = 1'-0"

0 1' 2' 4'



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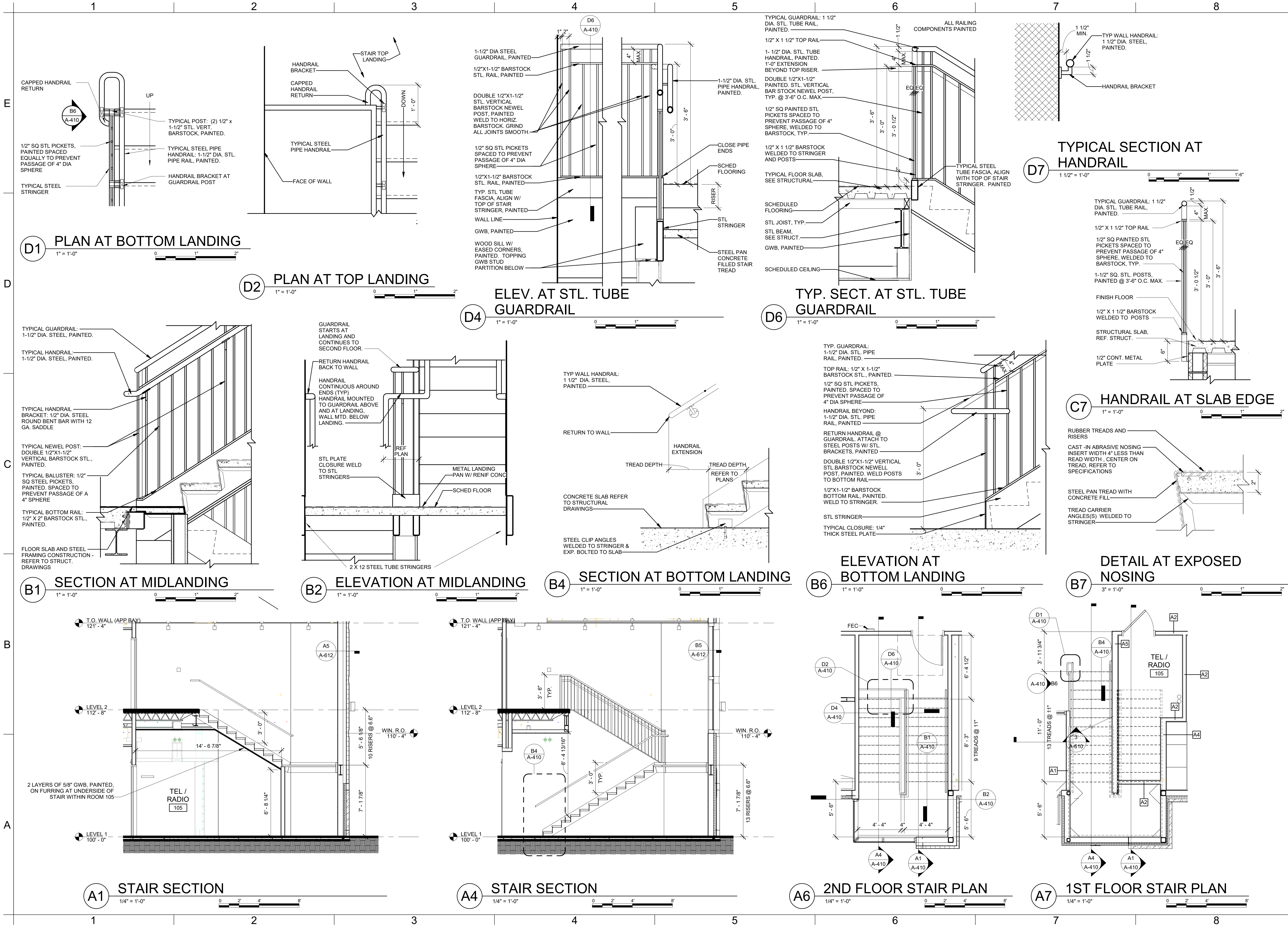
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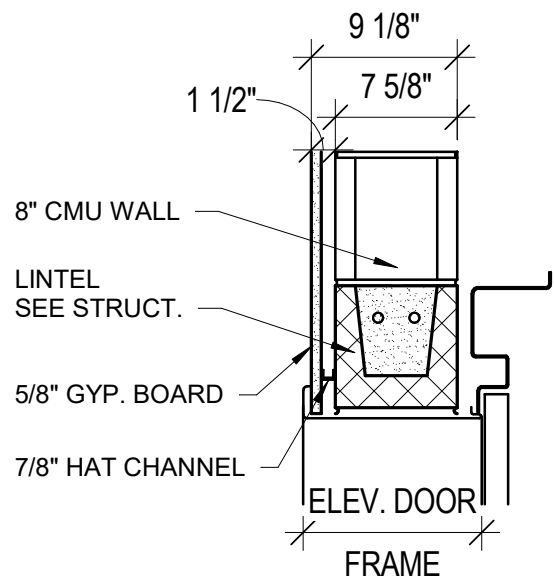
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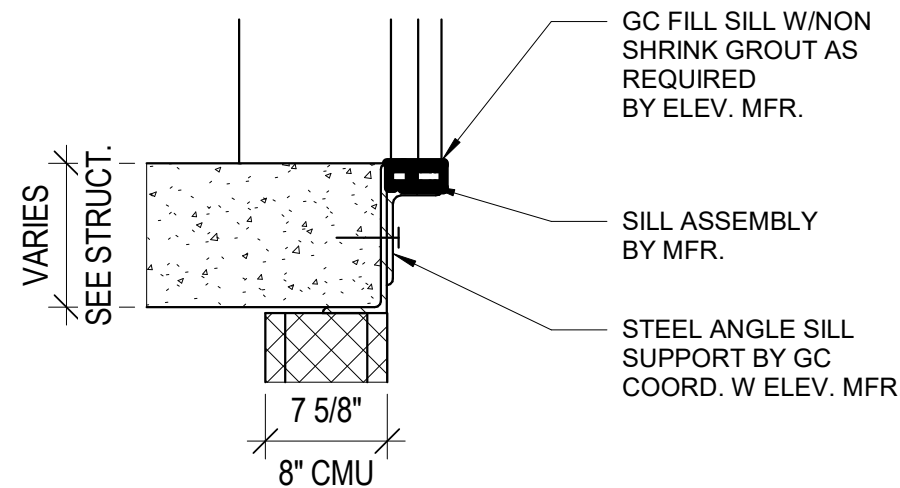
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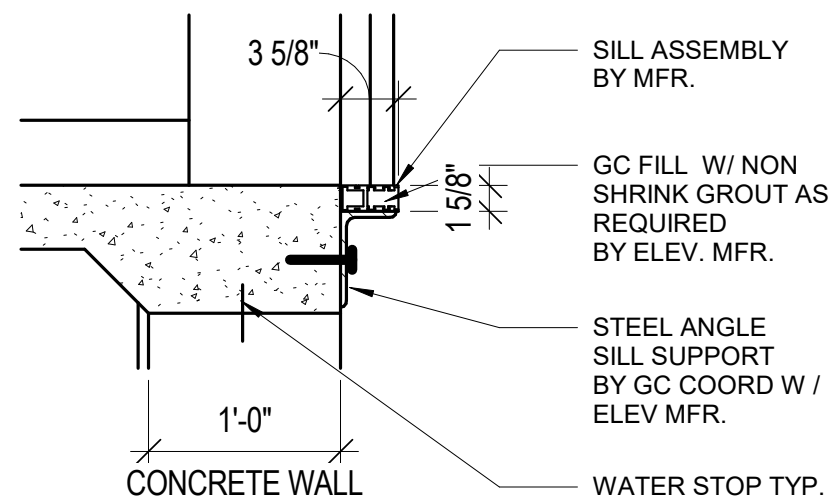
ELEVATOR DOOR HEAD - TYP.

C5



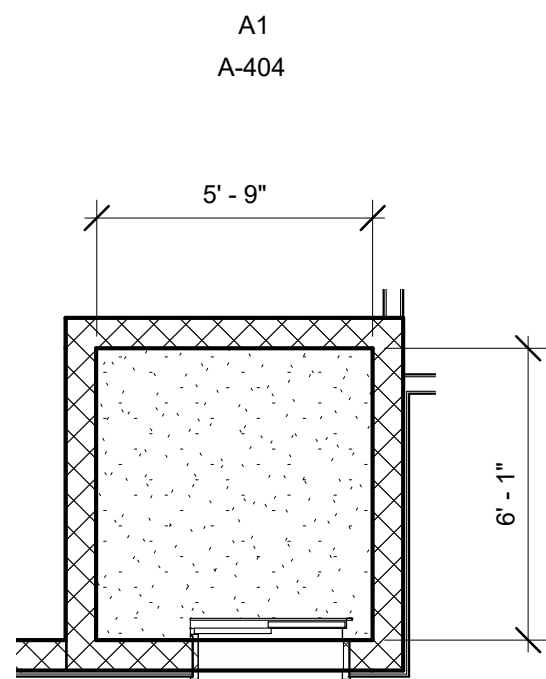
ELEVATOR - DOOR SILL TYP.

B5



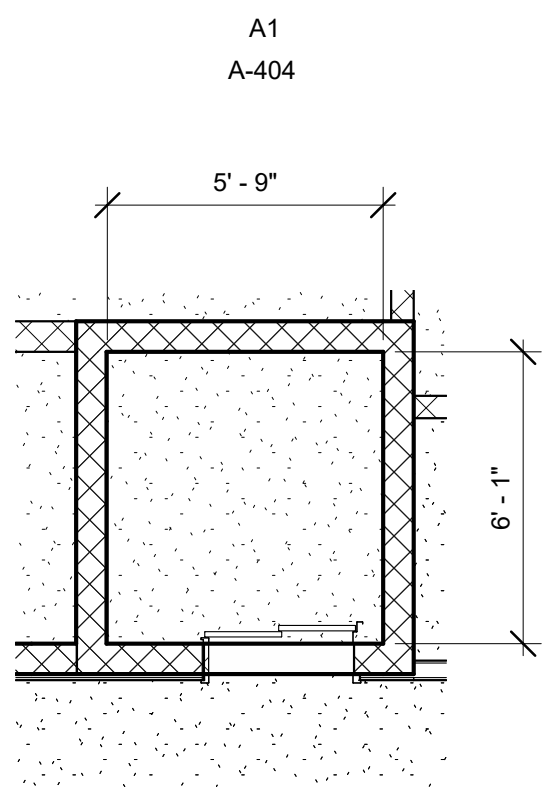
ELEVATOR DOOR SILL 1ST FLOOR

A5



ENL. ELEVATOR PLAN - 2ND FLOOR

B7



ENL. ELEVATOR PLAN - 1ST FLOOR

A7



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**FIRE STATION #5**  
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DATE:	11.21.2022
DRAWN BY:	JSP
CHK'D BY:	PJM

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ENLARGED  
ELEVATOR PLAN

A-411

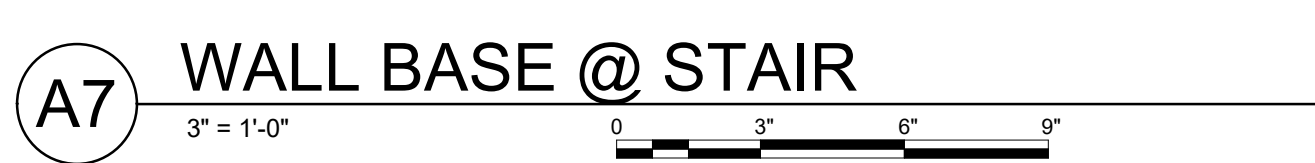
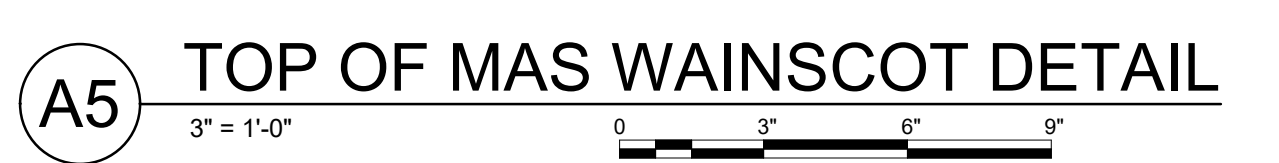
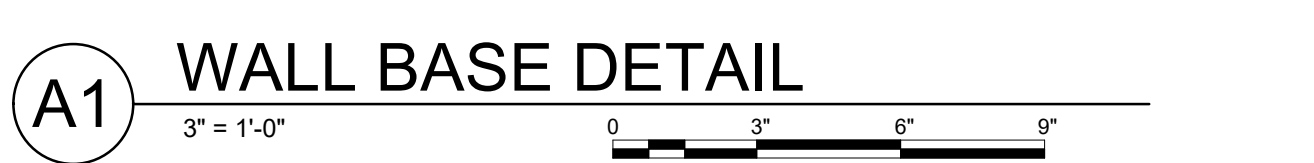
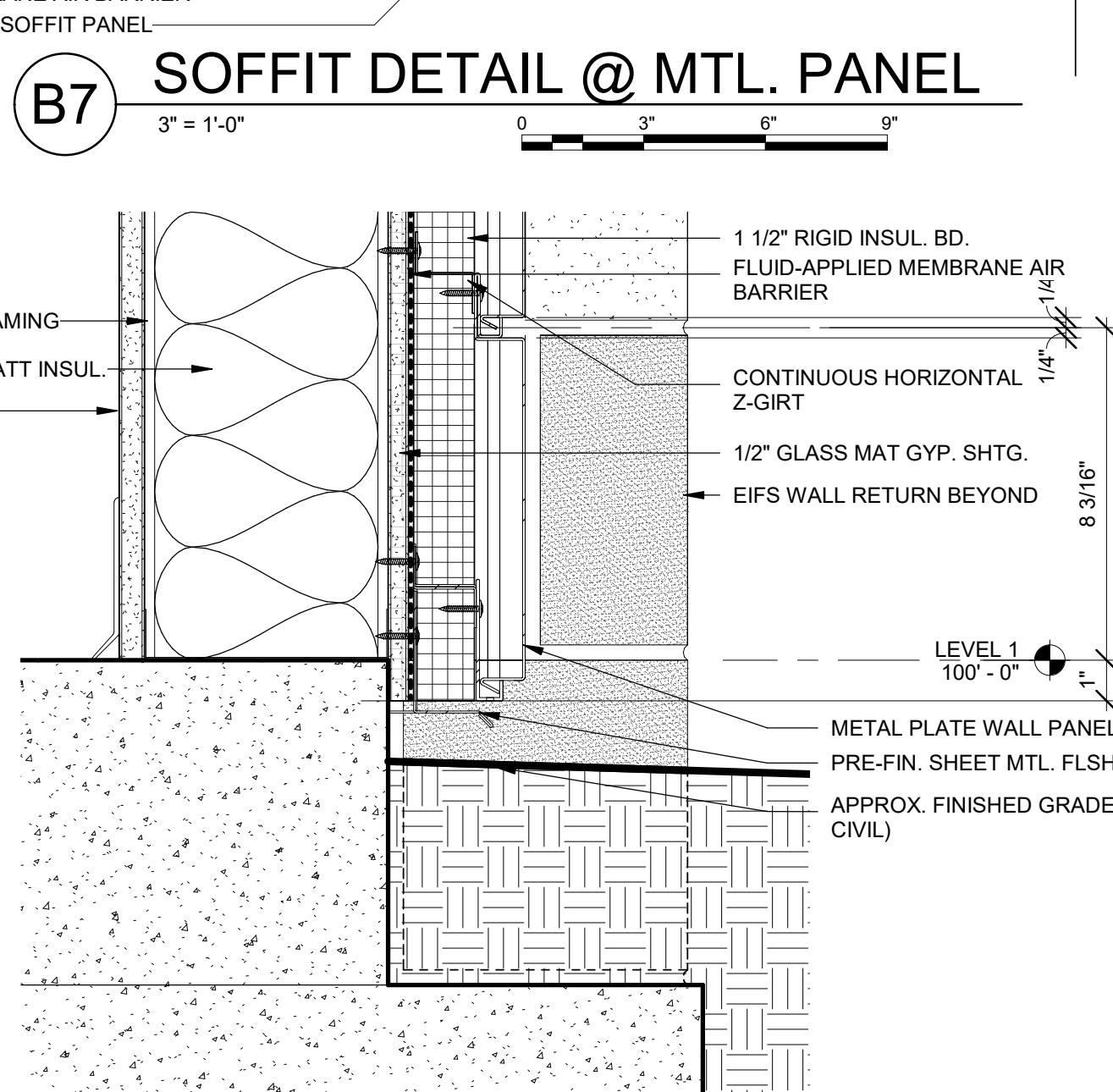
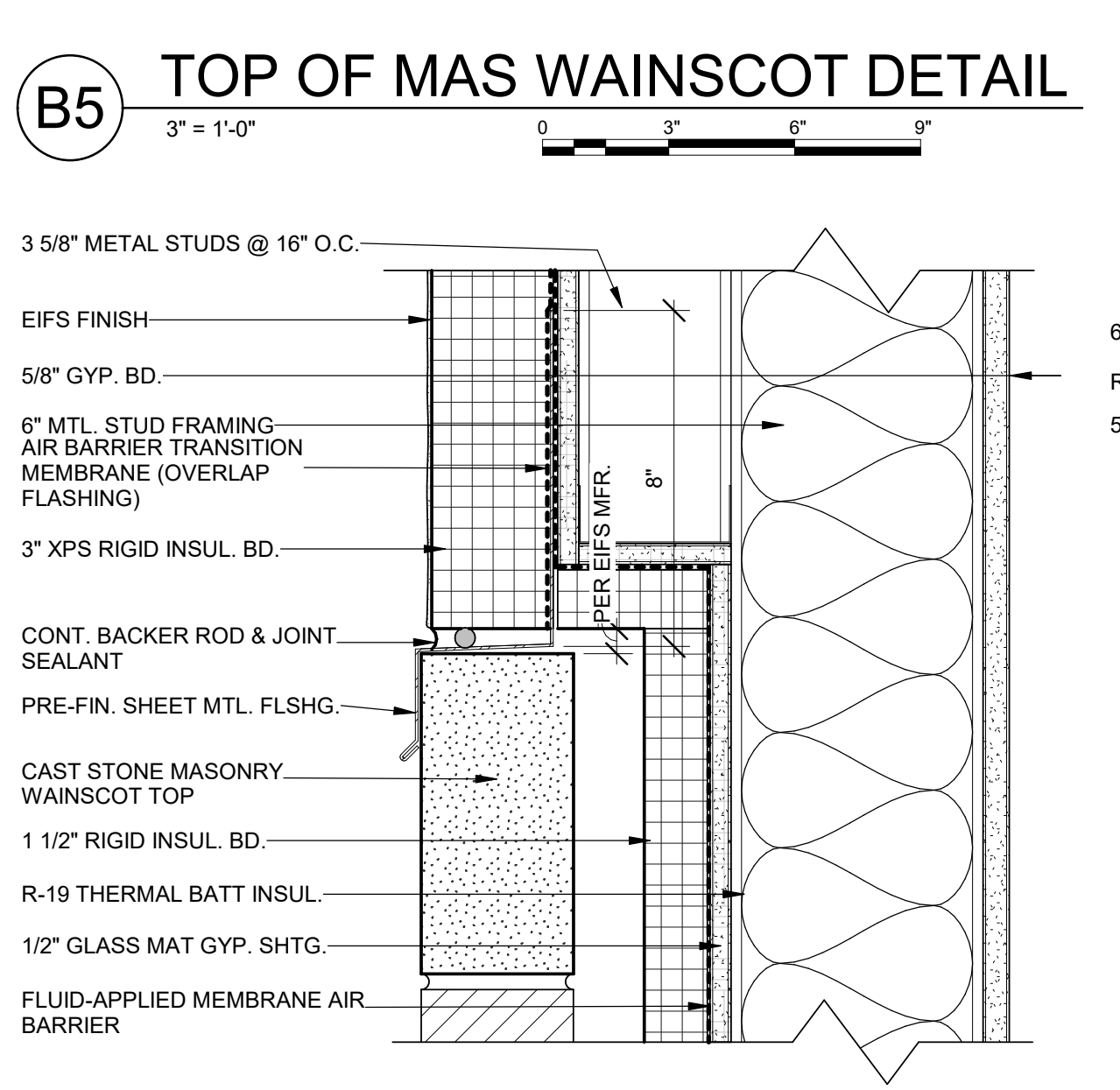
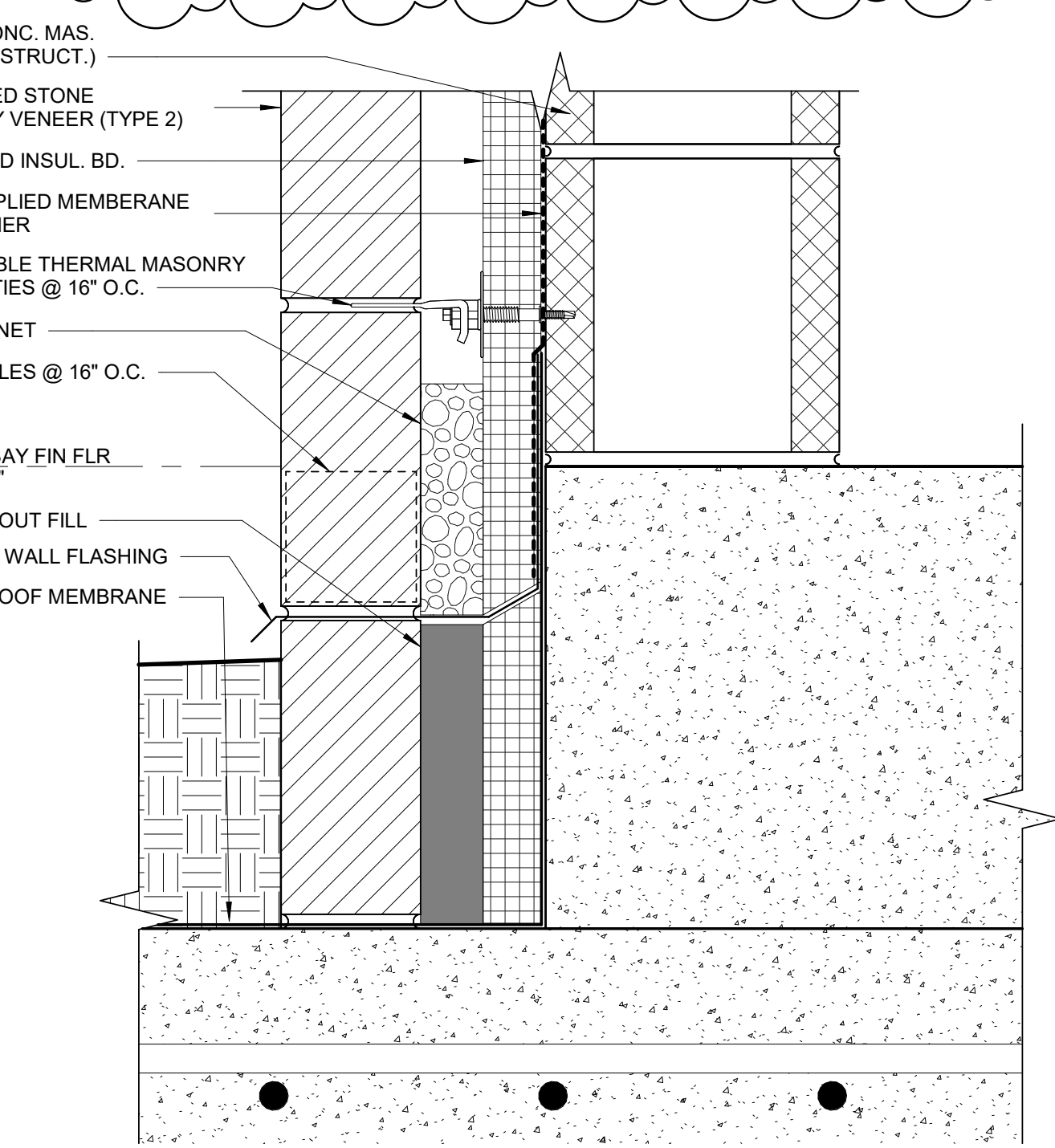
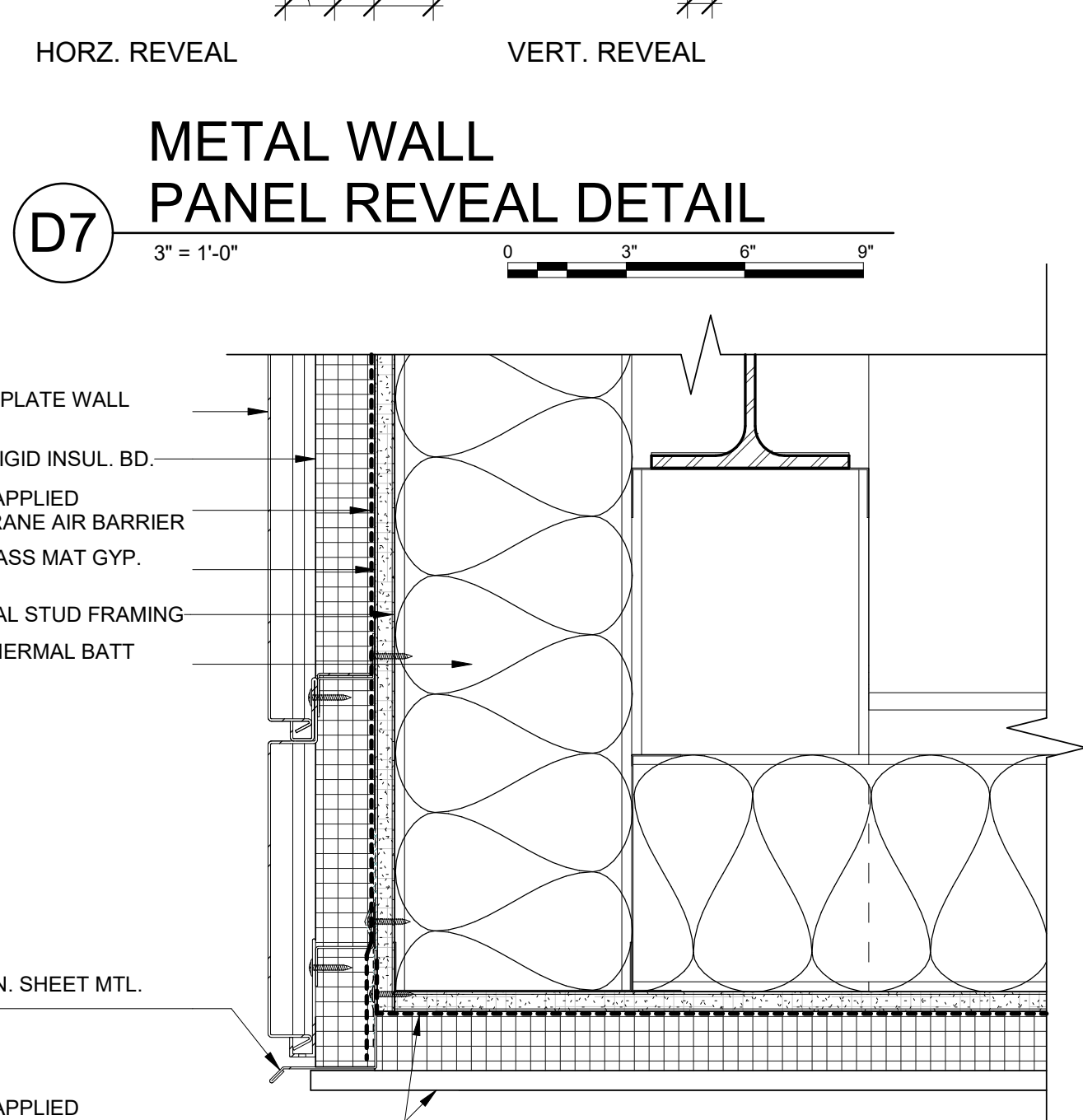
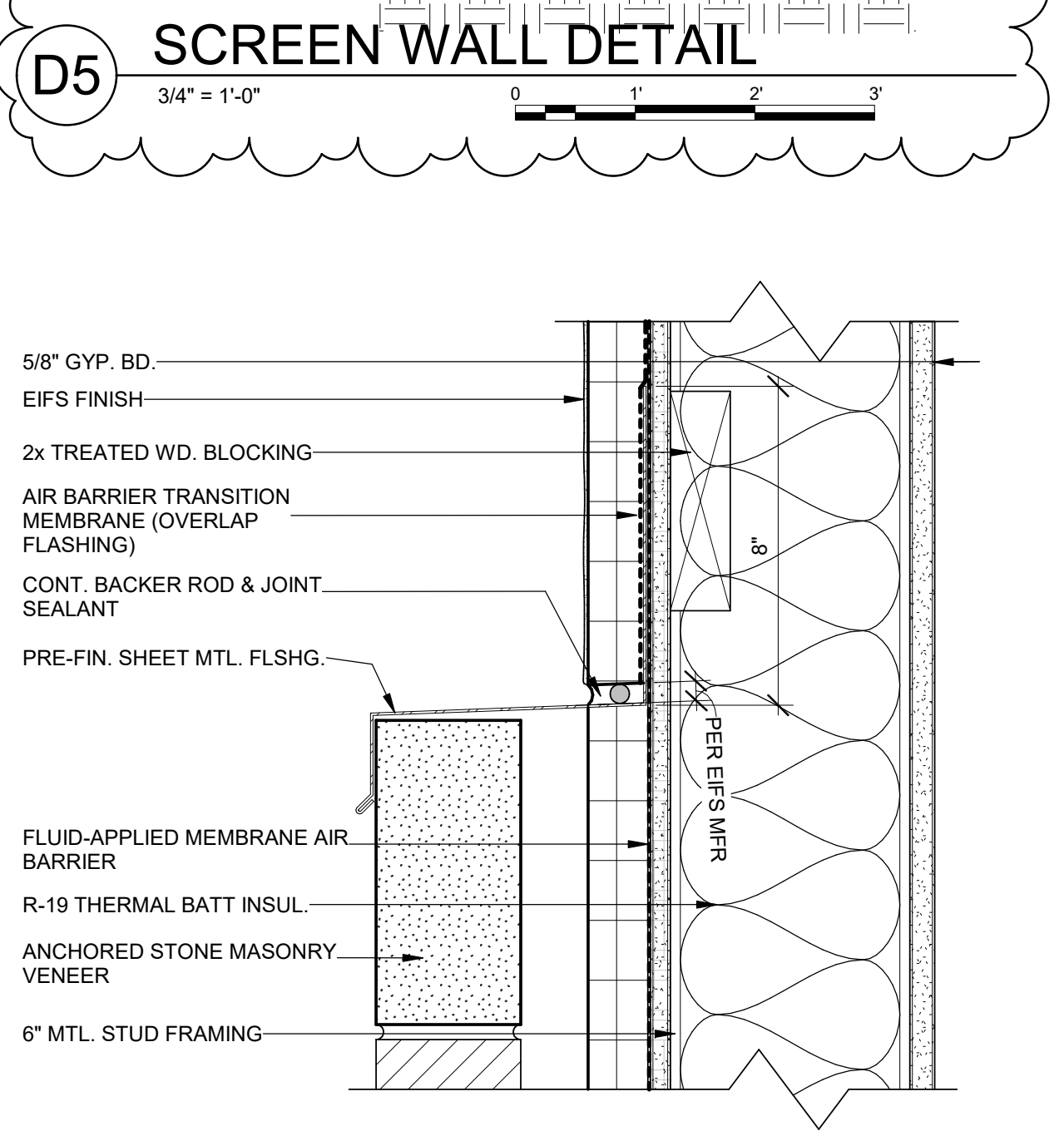
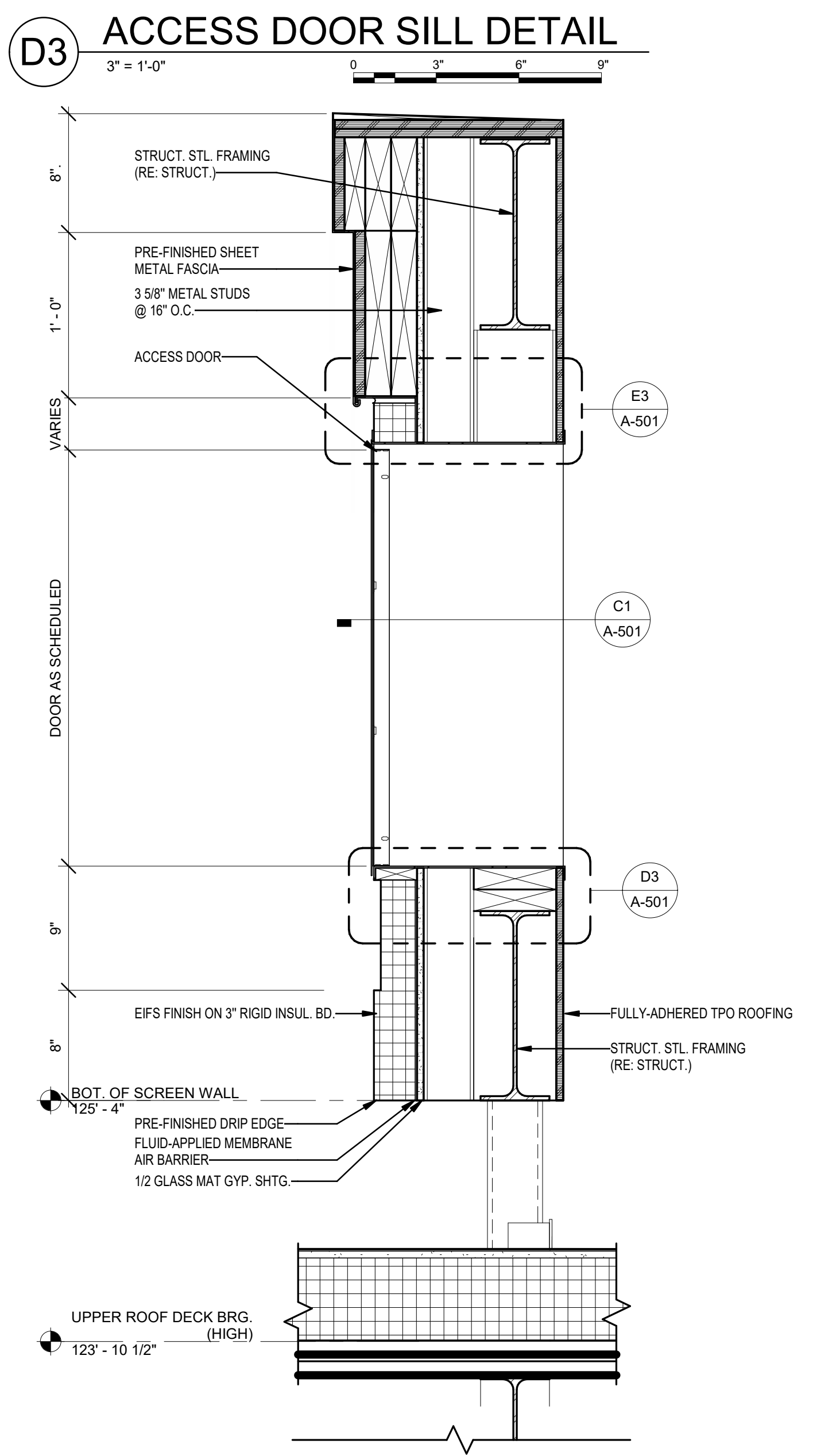
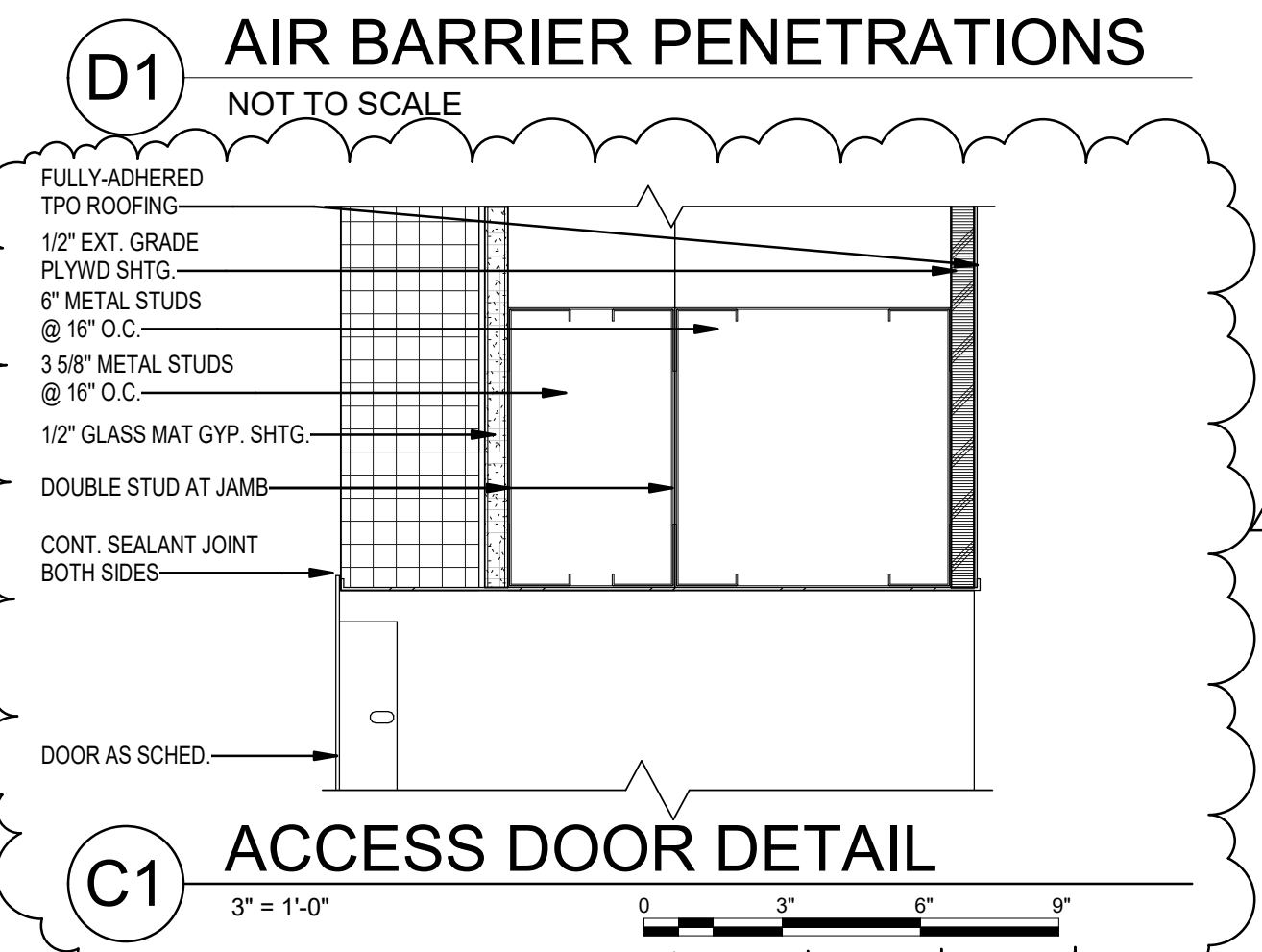
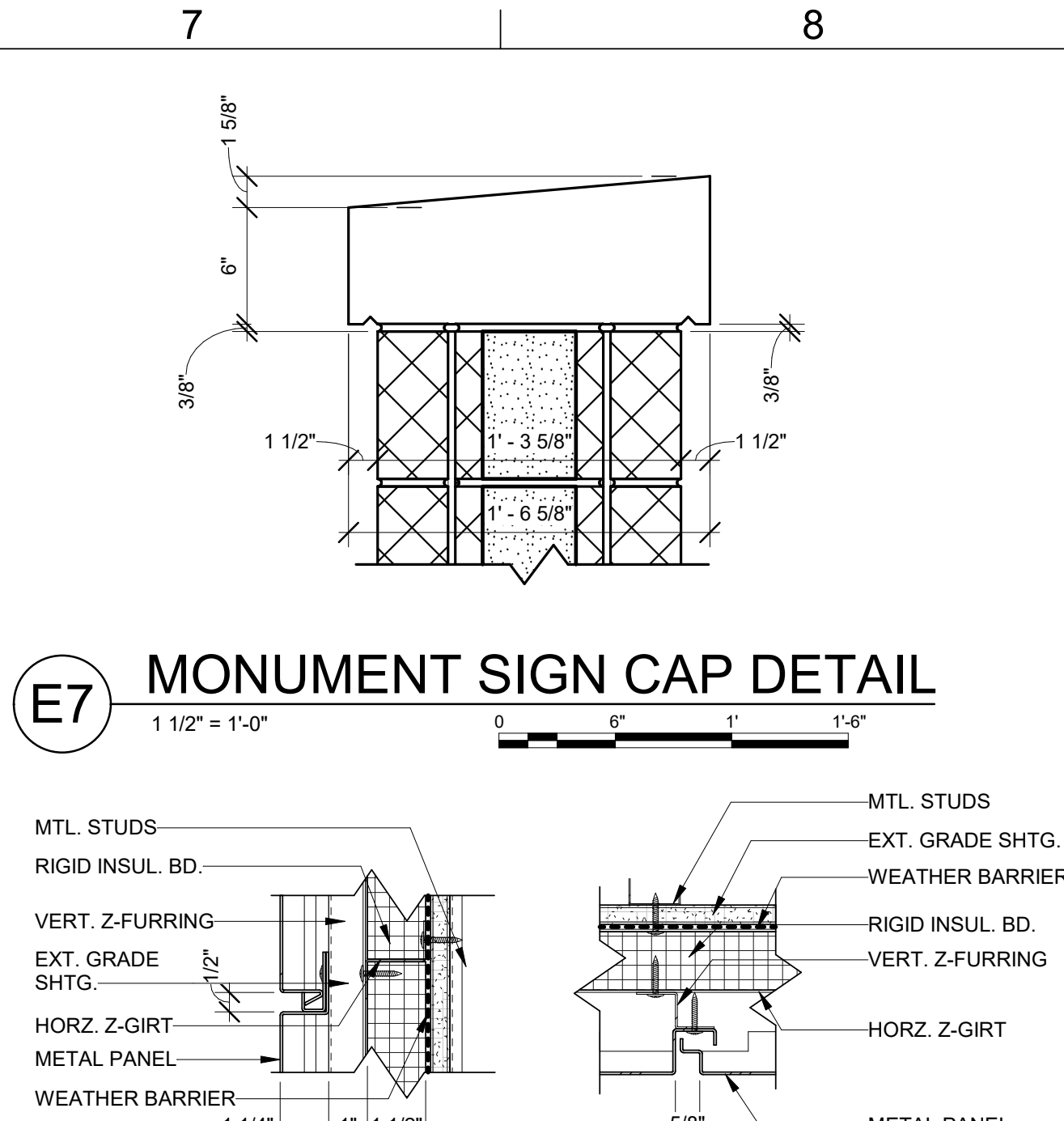
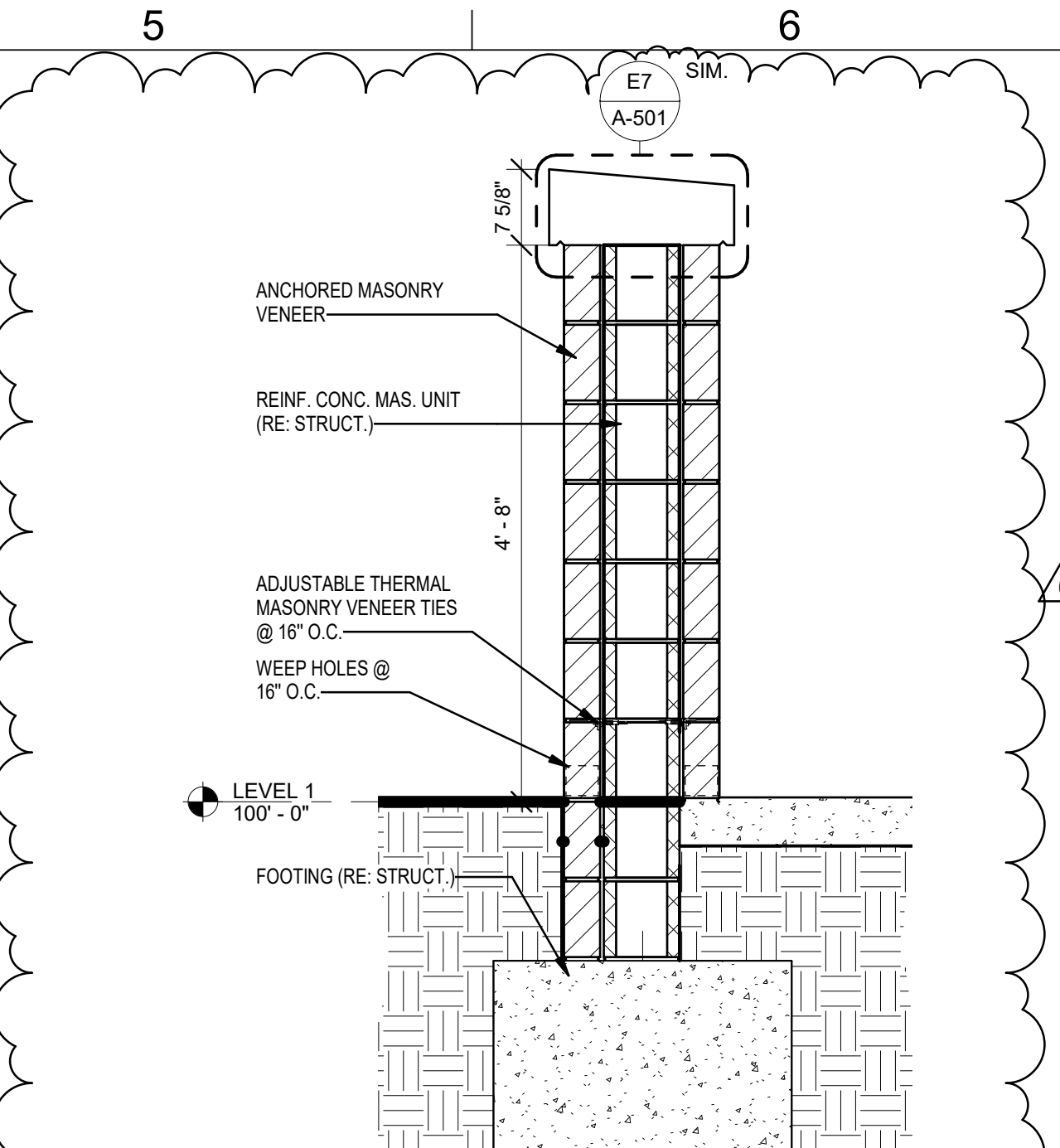
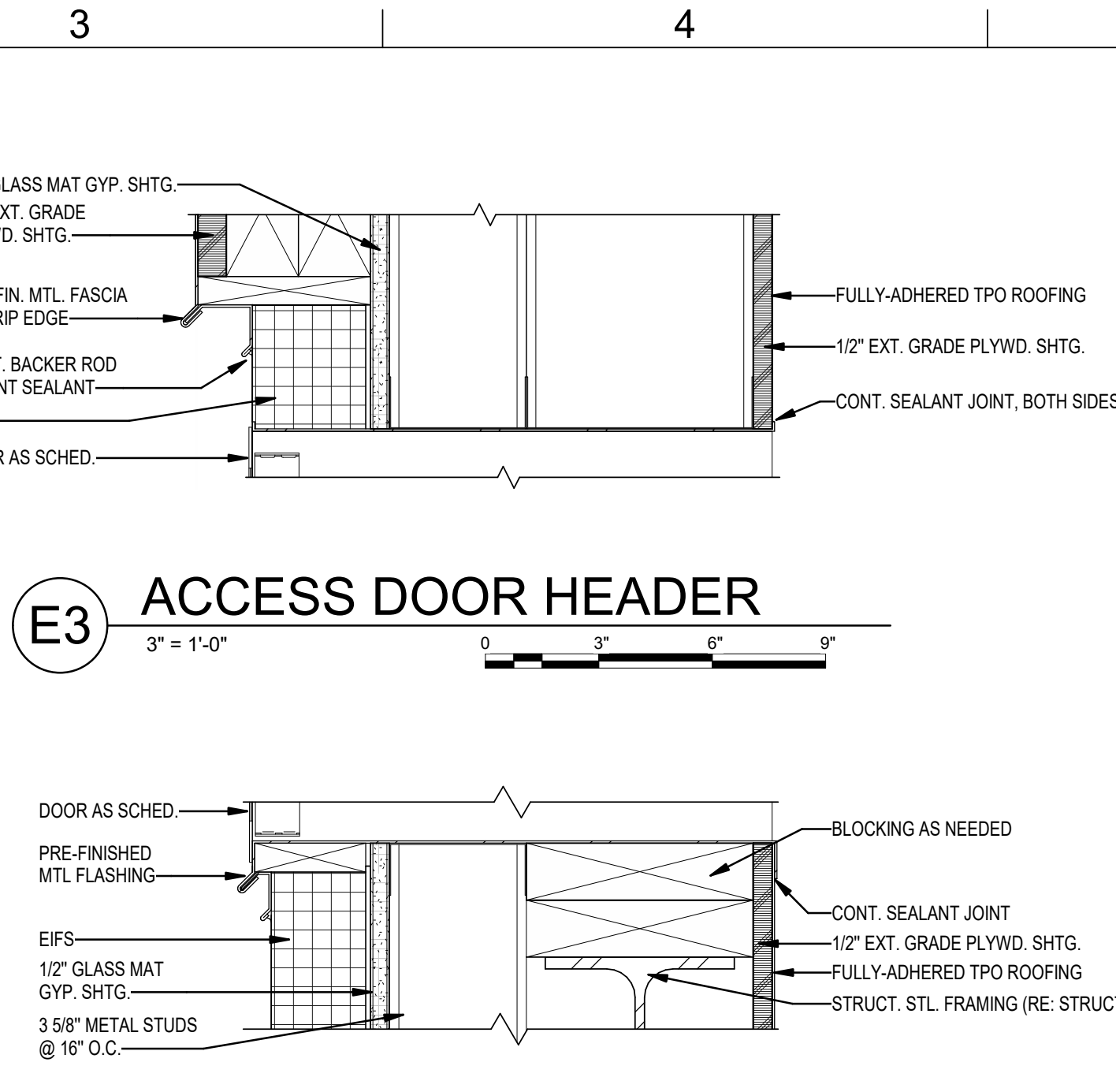
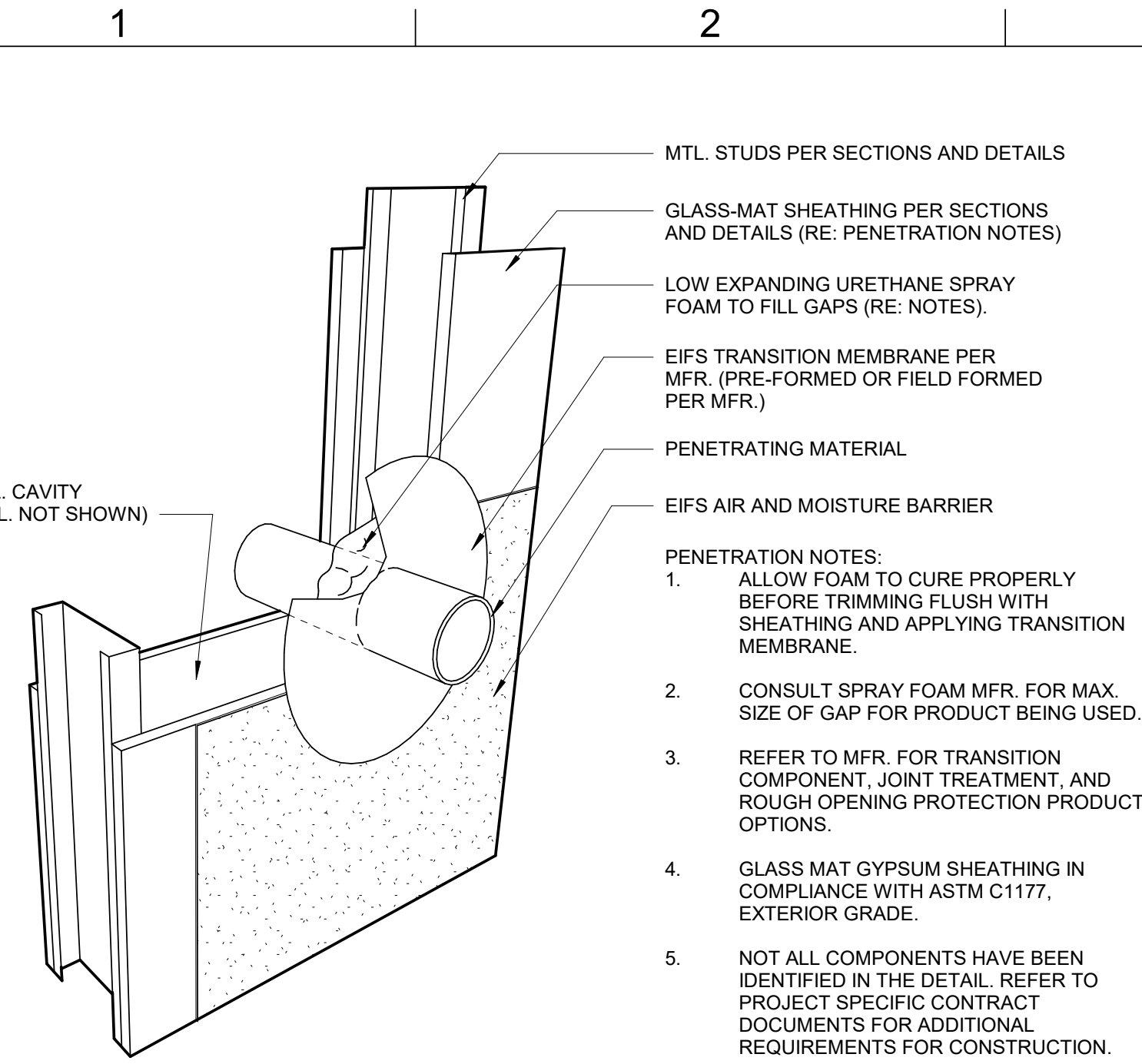
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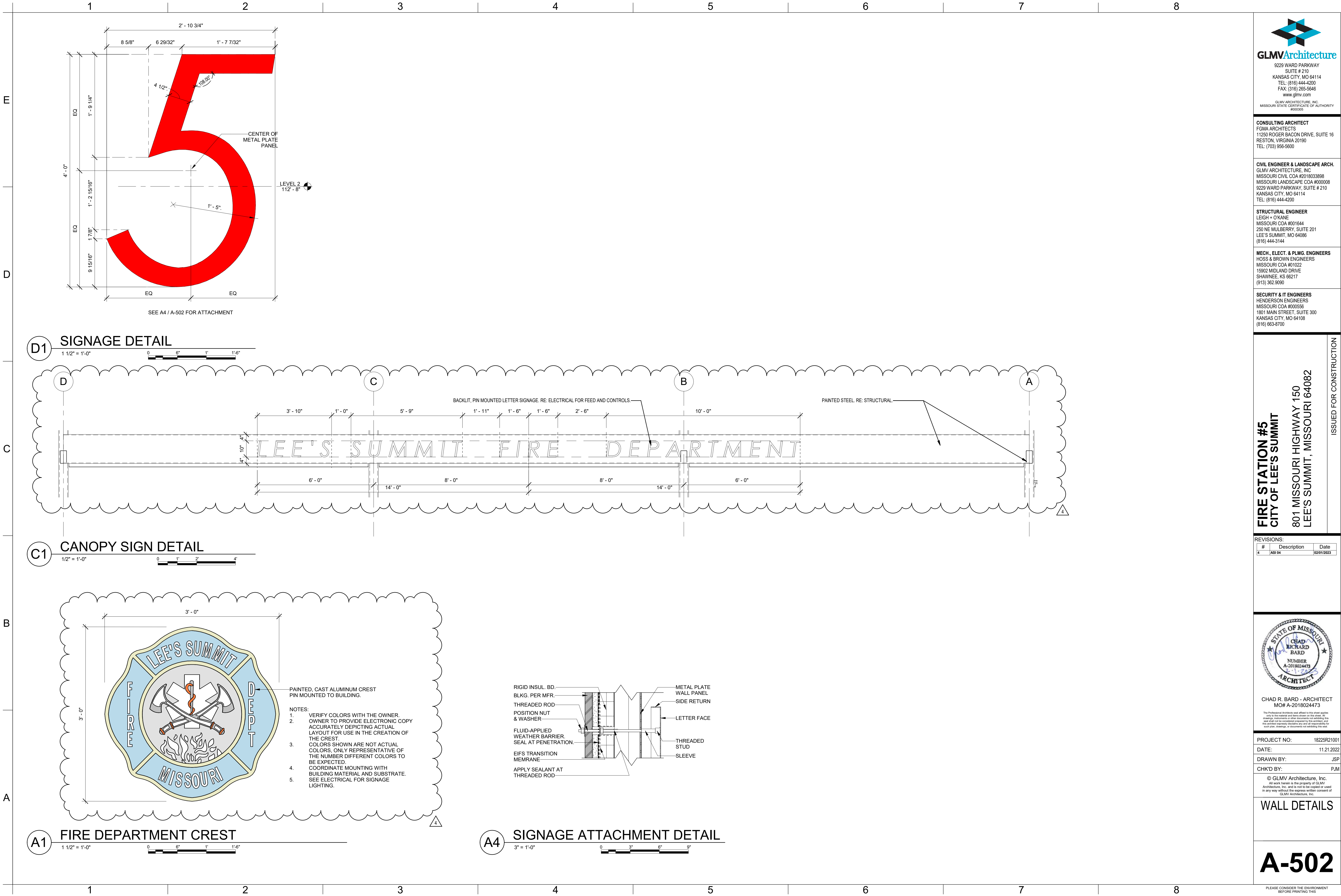
**A-501**

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FILE PATH: BM 360//18225R21001\_LeeSummitFireStation\_#4 and #5/LSMO FIRE STATION s.v4



  
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CHK'D BY:	PJM

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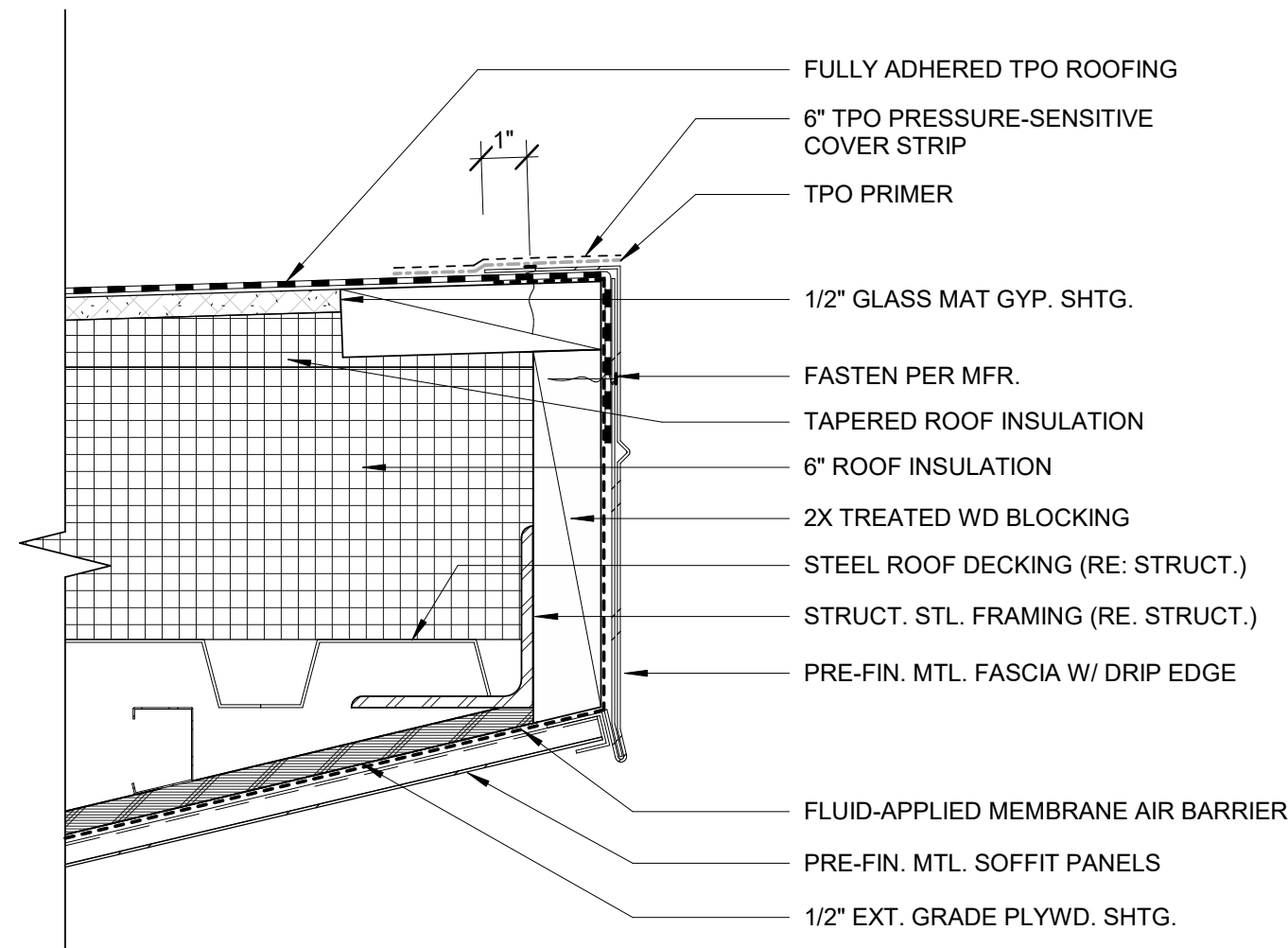
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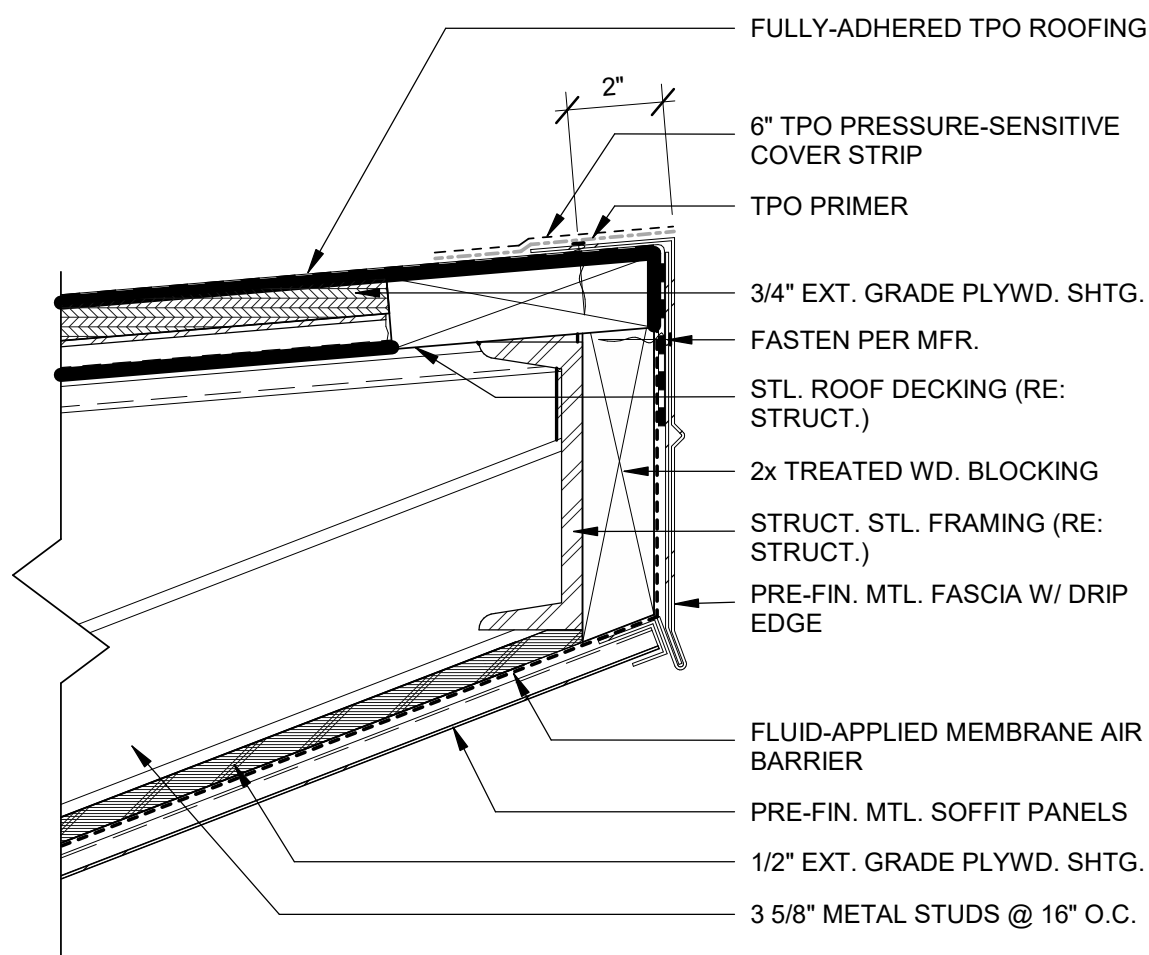


D1 ROOF - APP BAY (EAVE)

3" = 1'-0"

DETAIL NOTES:

1. METAL FASCIA DECK FLANGE TO BE COMPLETELY COVERED BY TPO PRESSURE-SENSITIVE COVER STRIP WITH MINIMUM 2" COVERAGE PAST NAIL HEADS.
2. WOOD BLOCKING TO EXTEND PAST TOTAL WIDTH OF METAL FASCIA DECK FLANGE.
3. REMOVE ANY FINISHING OILS ON METAL FLASHING PER TPO MFR. (ALLOW TO DRY PRIOR TO APPLYING TPO PRIMER).
4. METAL FASCIA FASTENER TYPE AND FASTENING FREQUENCY AS RECOMMENDED BY METAL FLASHING MANUFACTURER.



D3 ROOF EAVE DETAIL

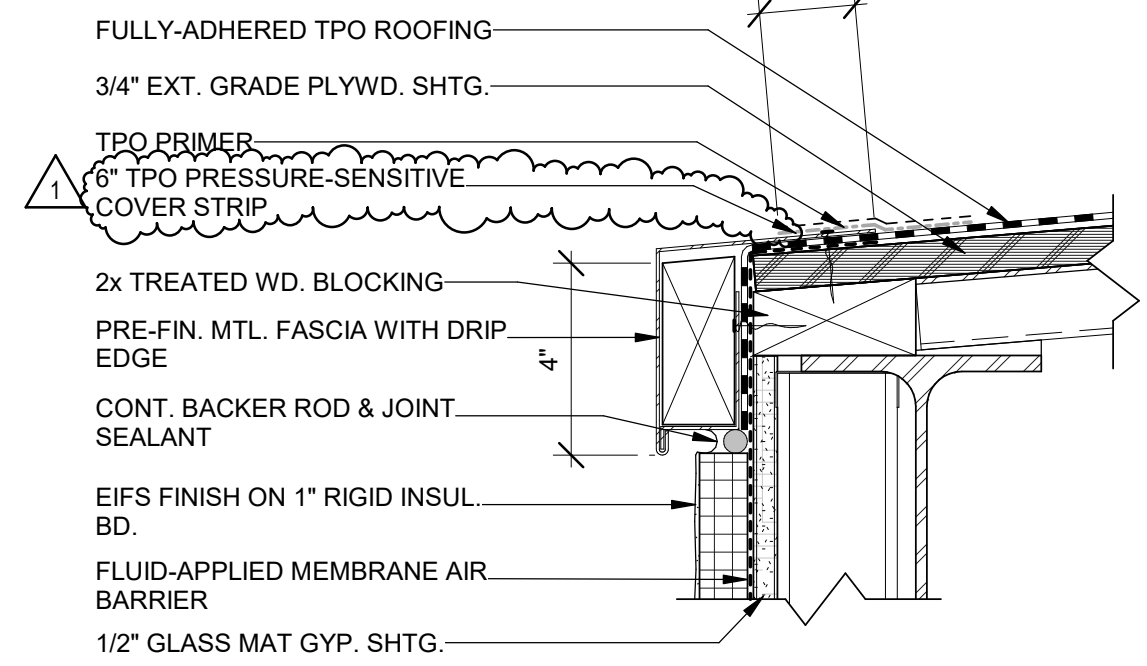
3" = 1'-0"

D

C

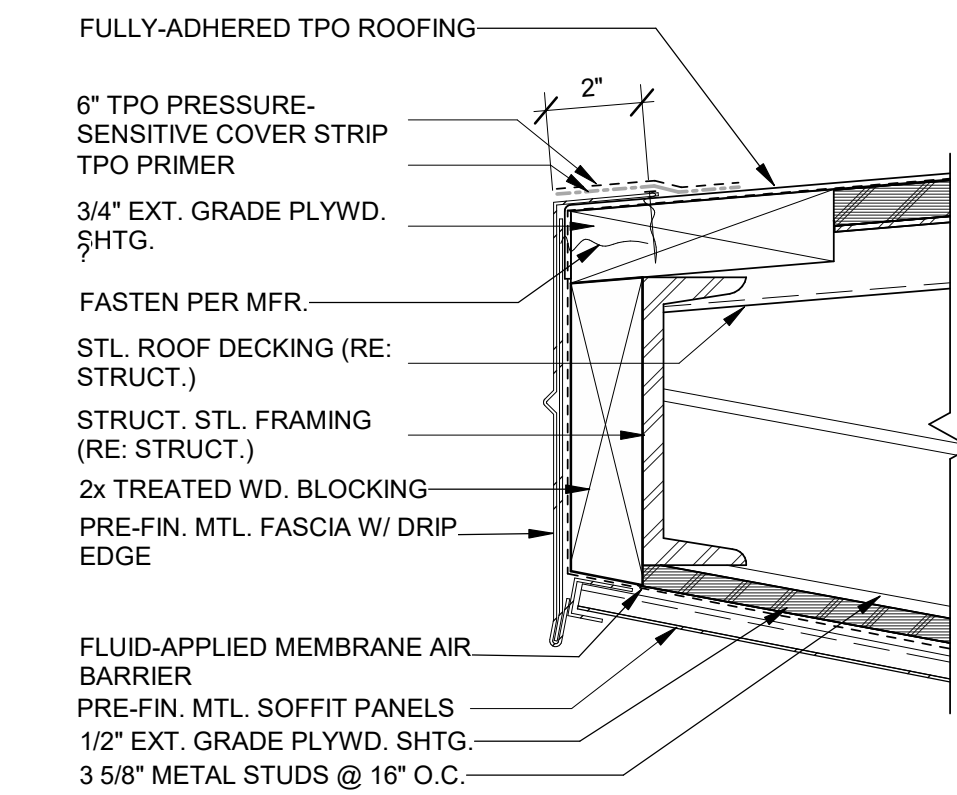
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A



D5 ROOF EDGE DETAIL

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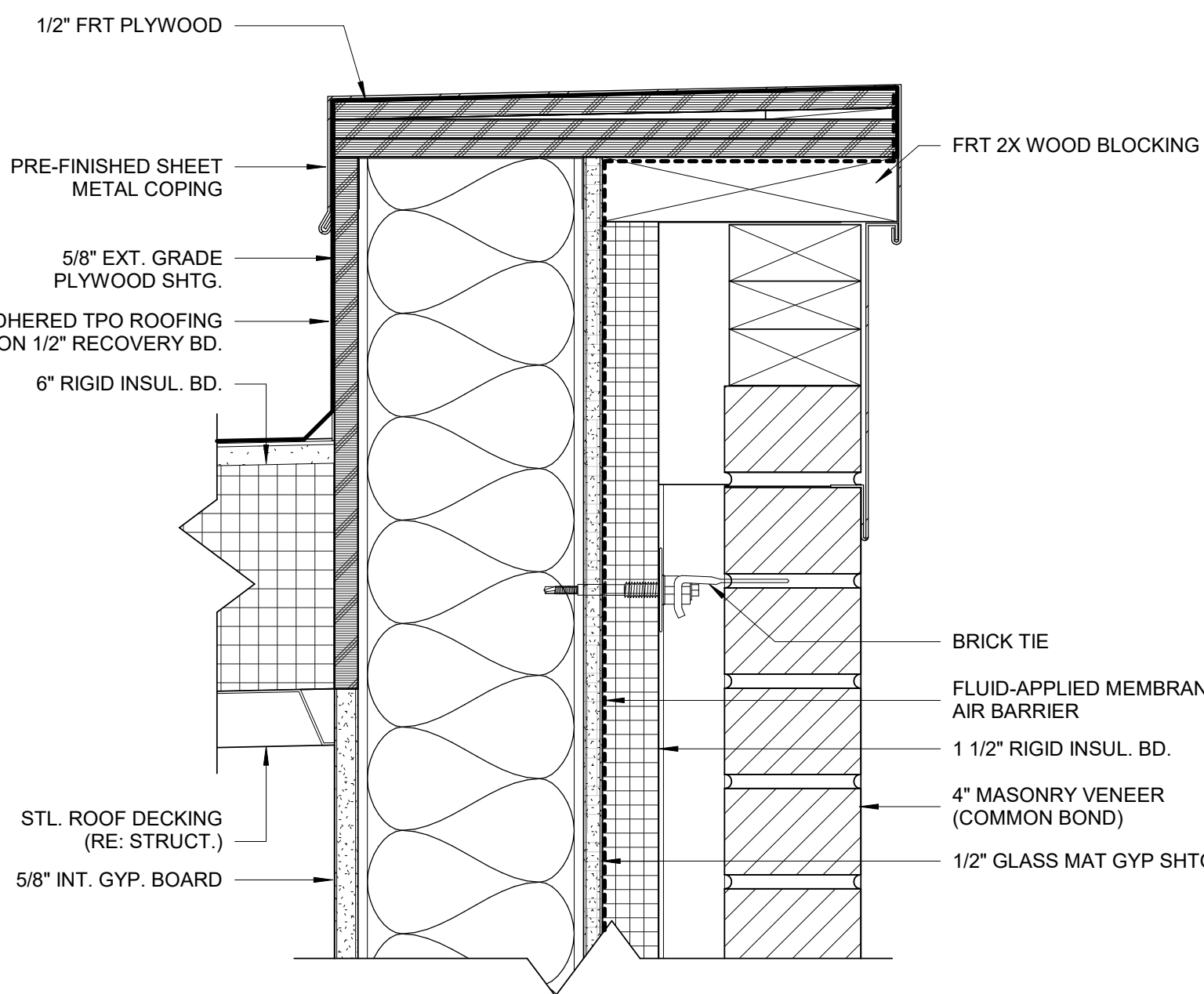


D7 ROOF EAVE DETAIL

3" = 1'-0"

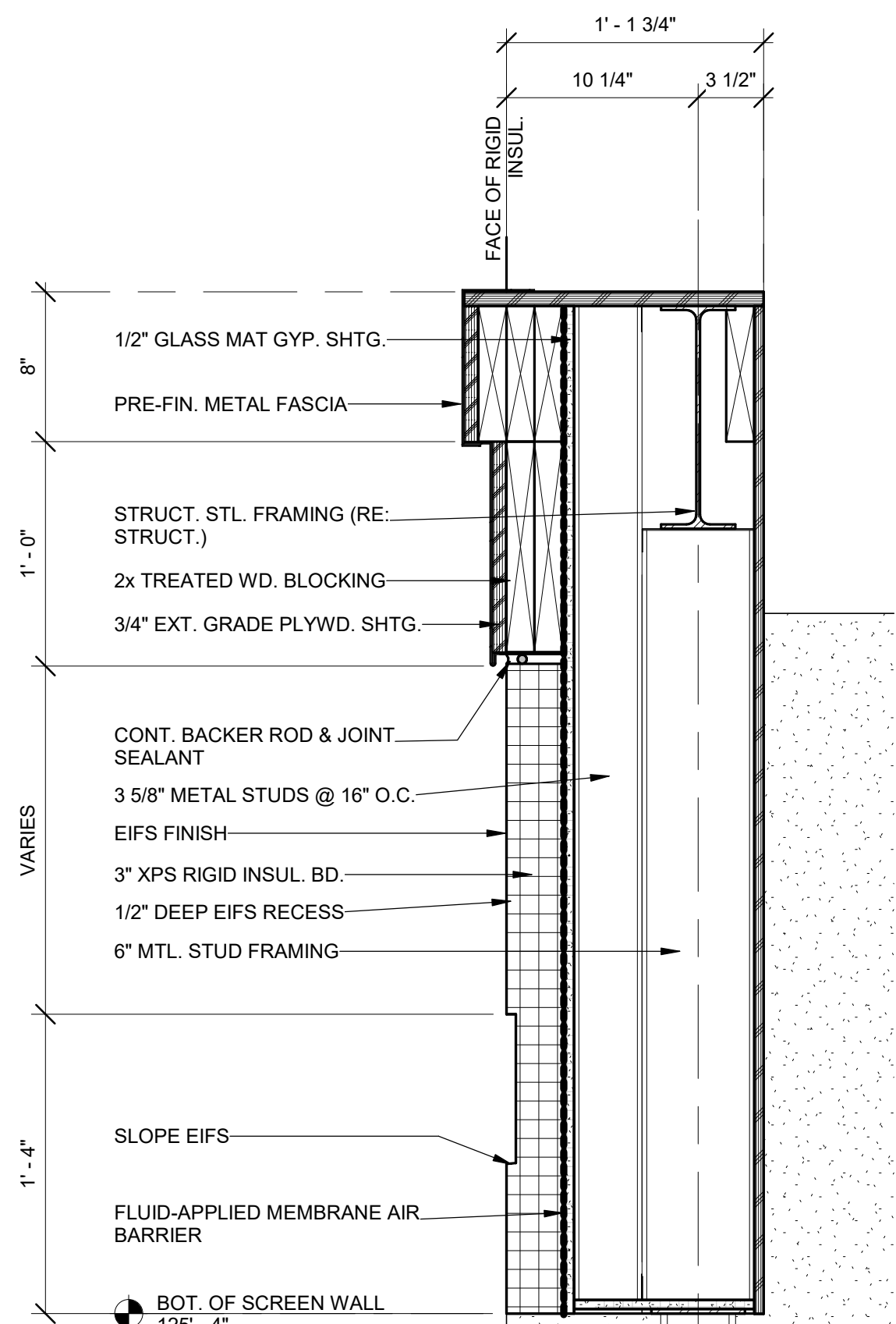
DETAIL NOTES:

1. METAL FASCIA DECK FLANGE TO BE COMPLETELY COVERED BY TPO PRESSURE-SENSITIVE COVER STRIP WITH MINIMUM 2" COVERAGE PAST NAIL HEADS.
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4. METAL FASCIA FASTENER TYPE AND FASTENING FREQUENCY AS RECOMMENDED BY METAL FLASHING MANUFACTURER.



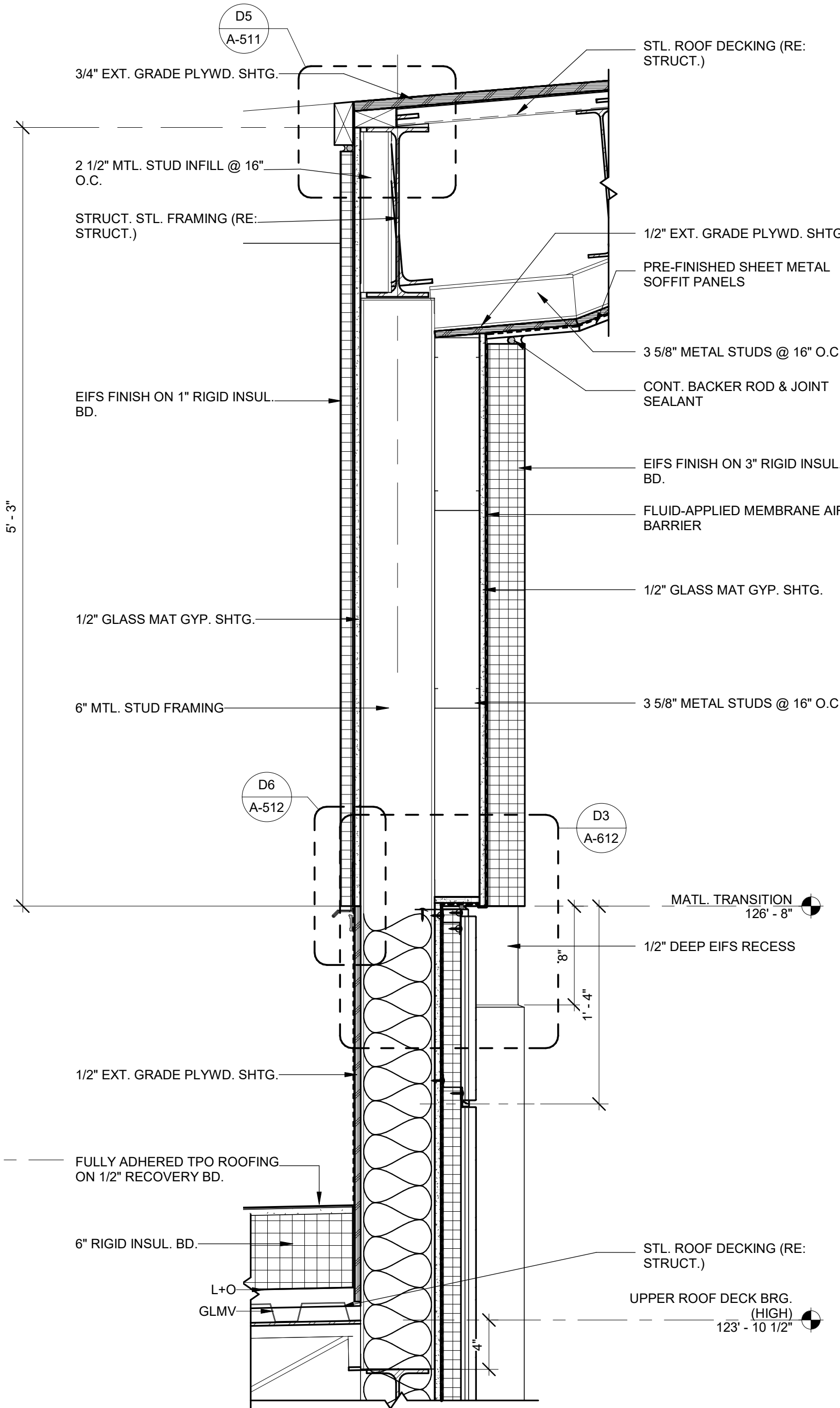
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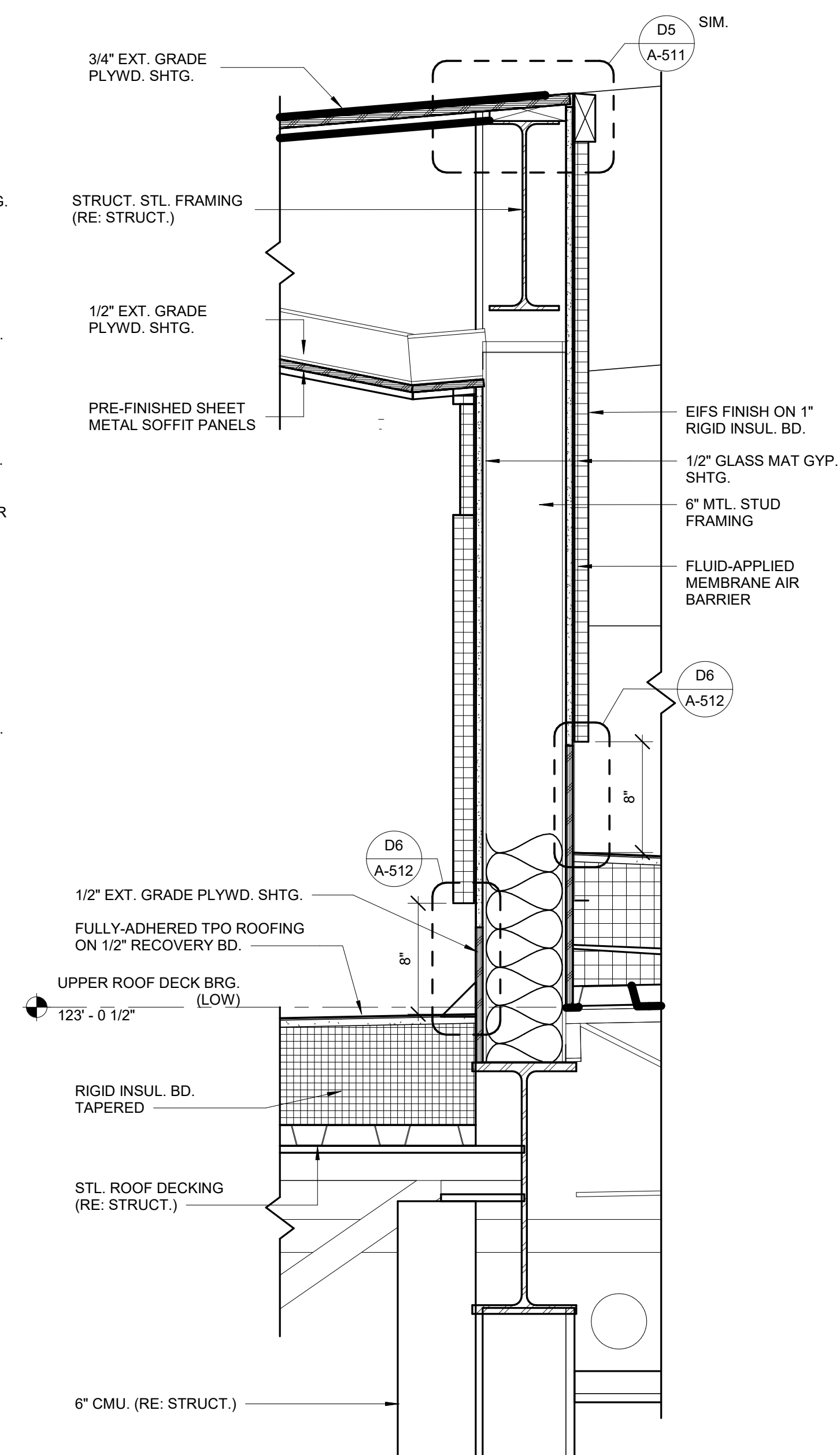
A3 MECHANICAL EQUIP. SCREEN

1 1/2" = 1'-0"



A5 FRONT ENTRY ROOF DETAIL

1 1/2" = 1'-0"



A7 FRONT ENTRY ROOF DETAIL

1 1/2" = 1'-0"



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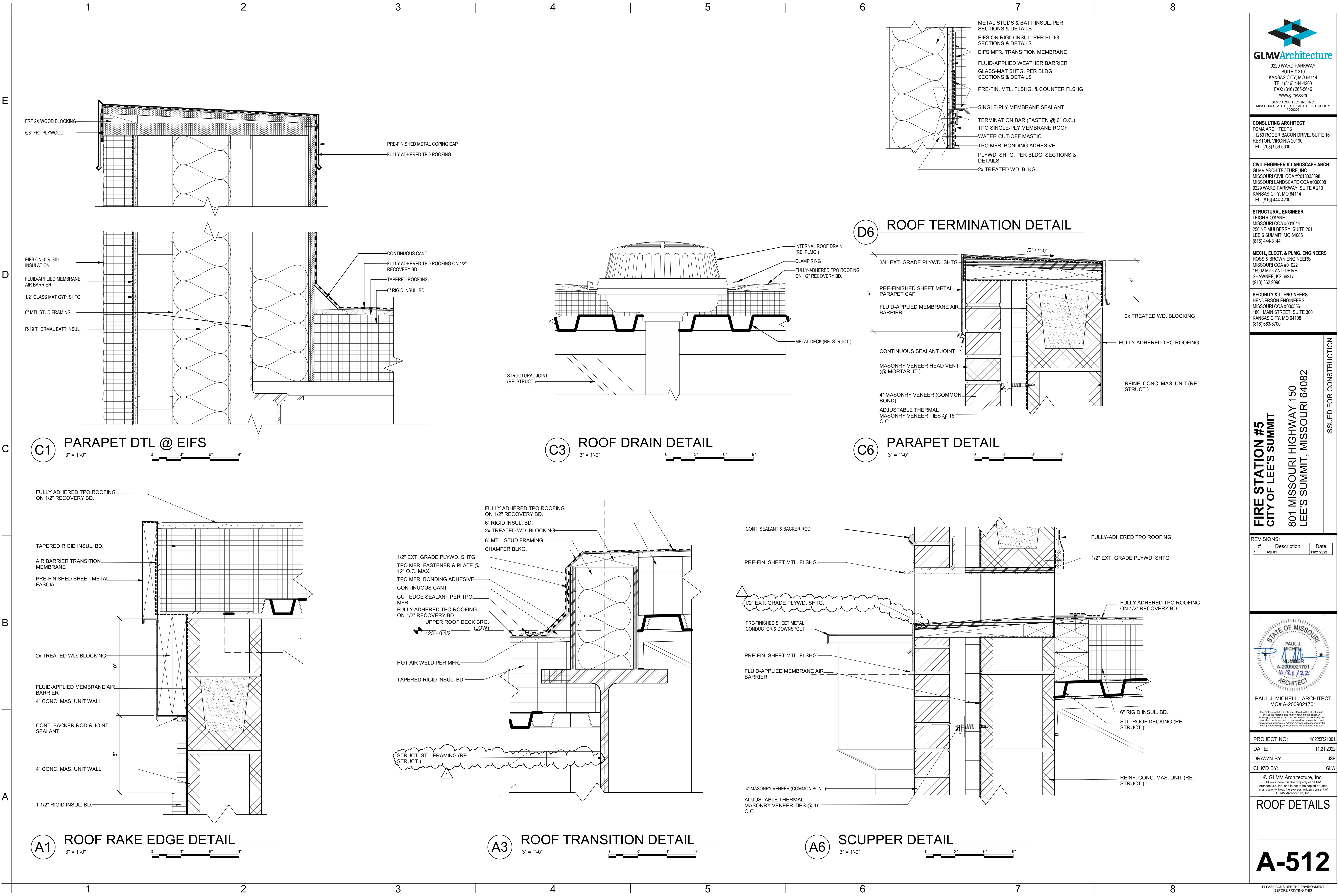
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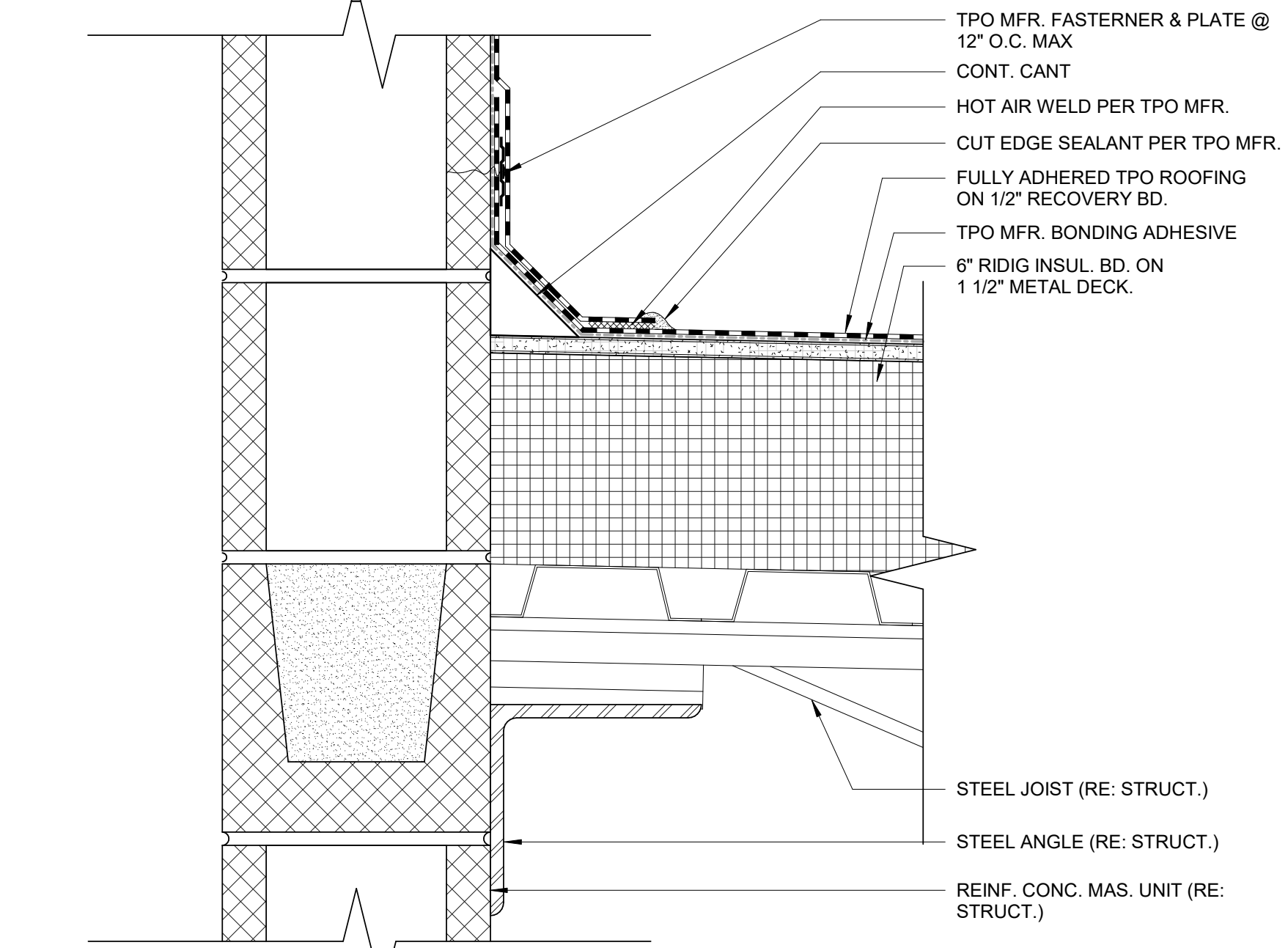
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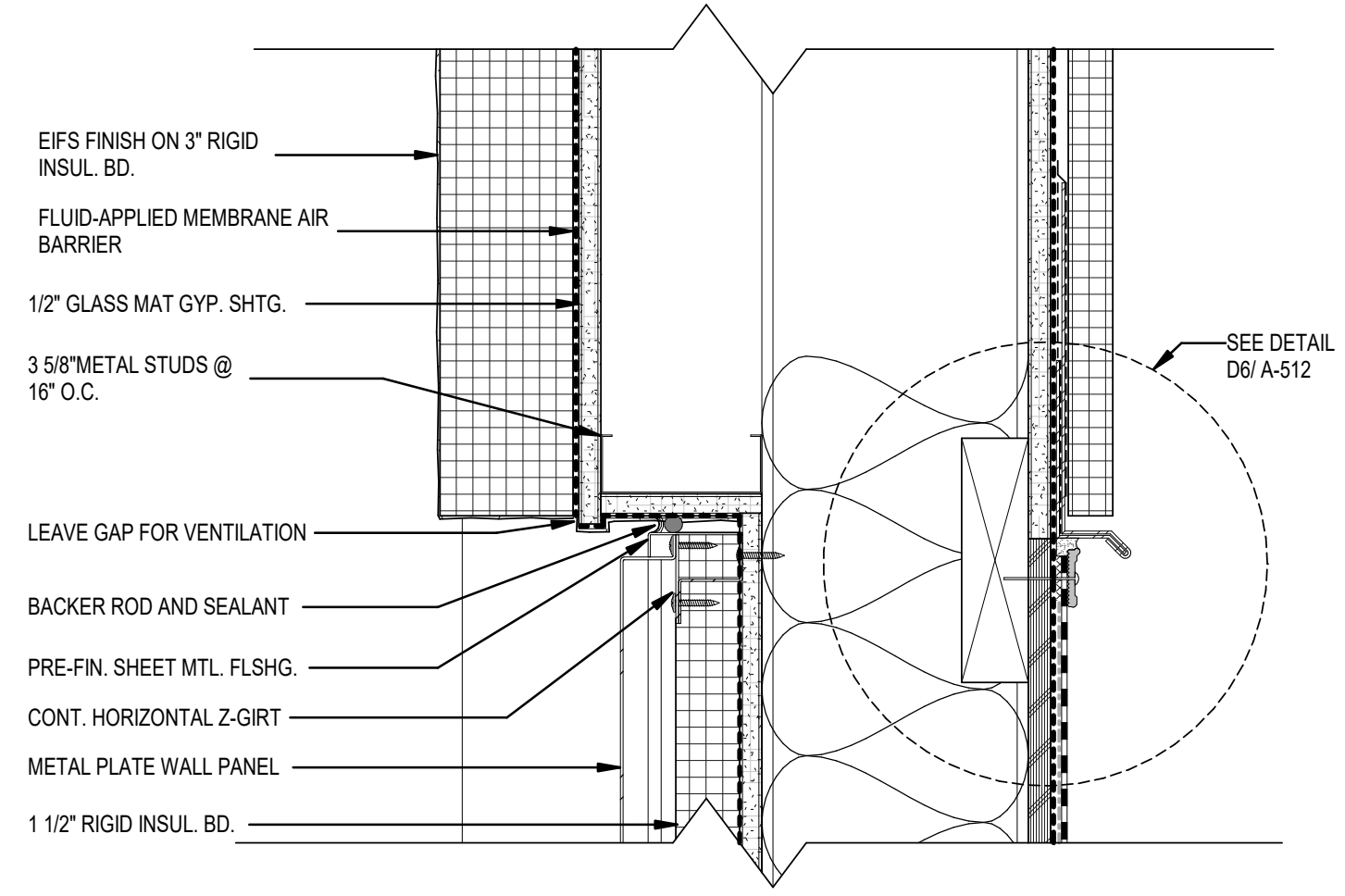
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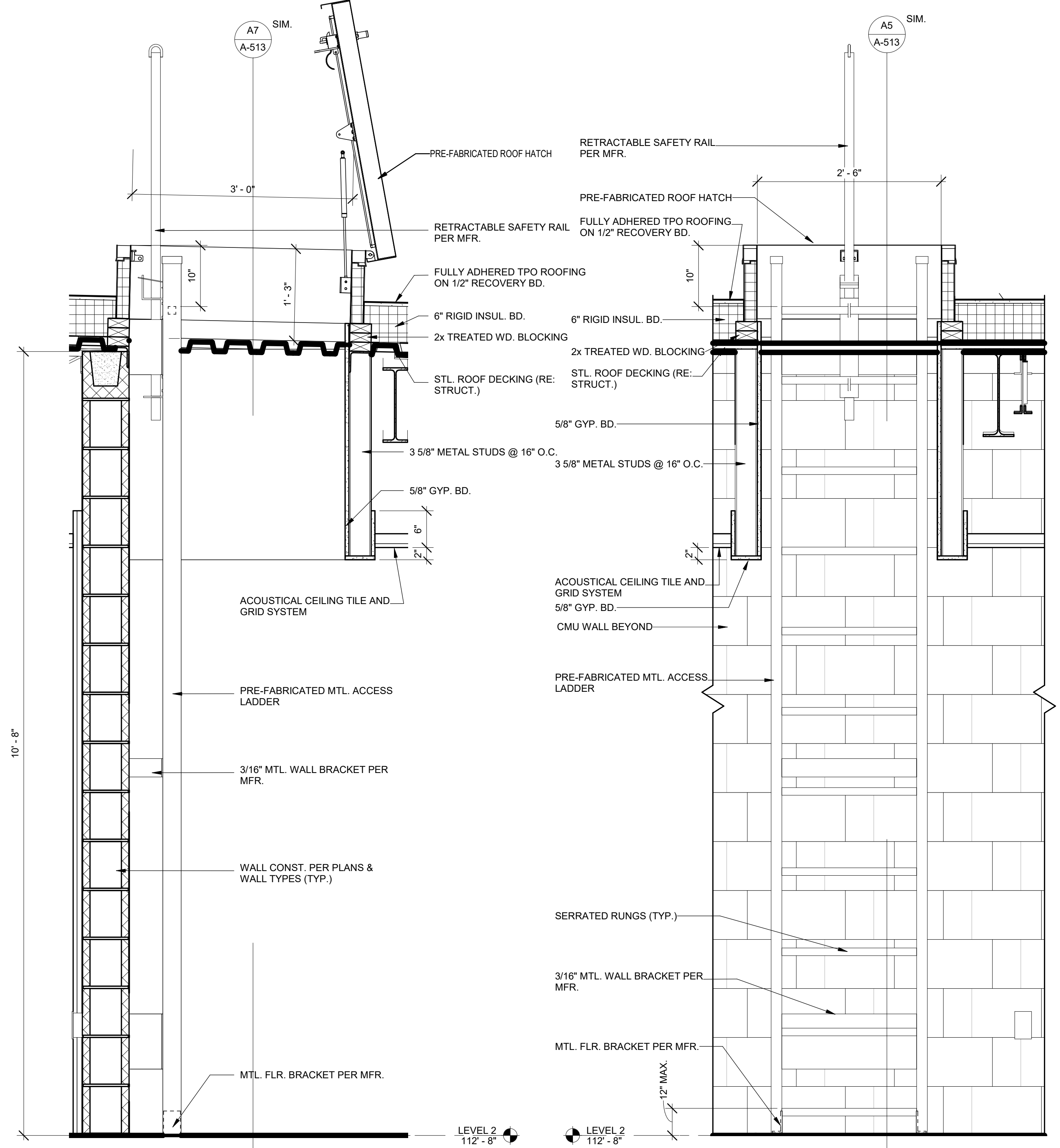
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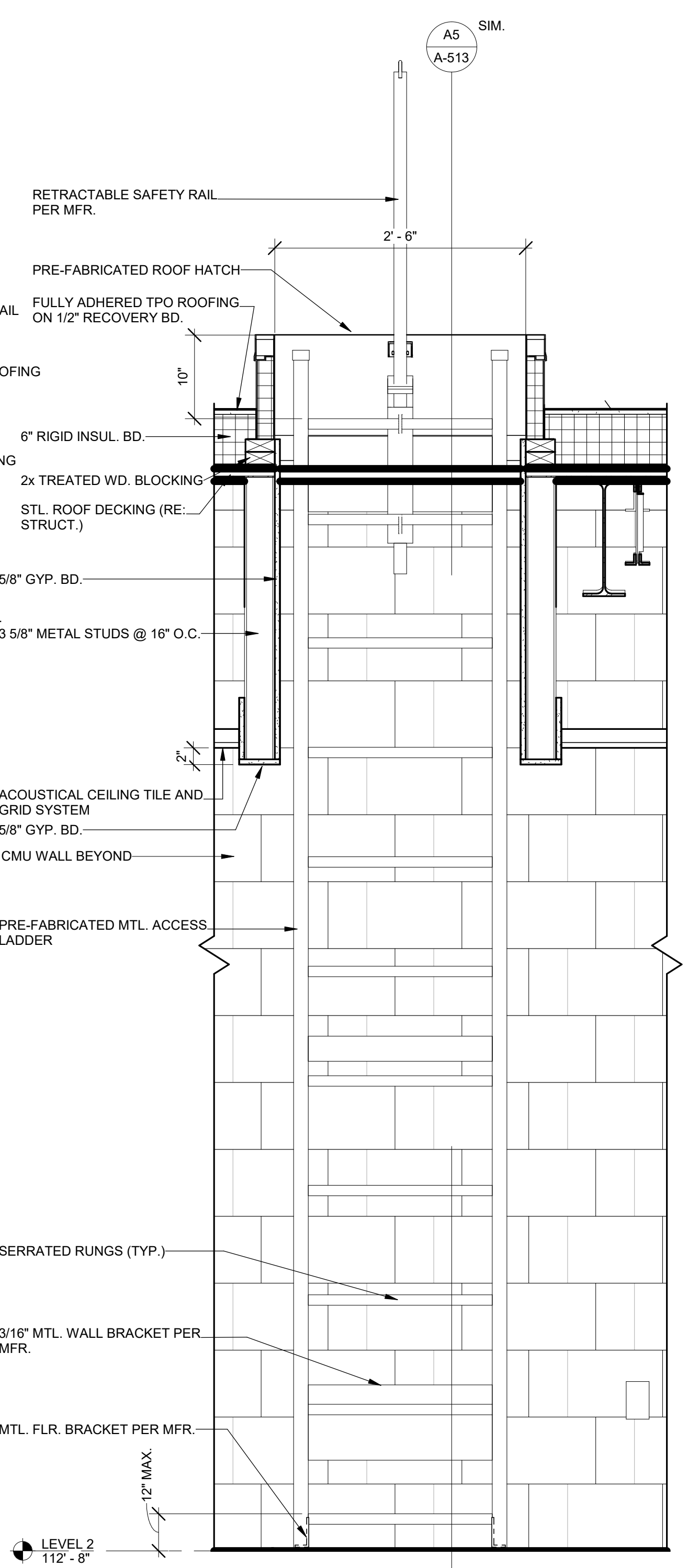
**B2** WALL- CMU - VERT TRANS @ APP BAY  
3" = 1'-0"



**A2** EIFS TRANSITION DETAIL  
3" = 1'-0"



**A5** ROOF HATCH DETAIL  
1" = 1'-0"



**A7** ROOF HATCH DETAIL  
1" = 1'-0"



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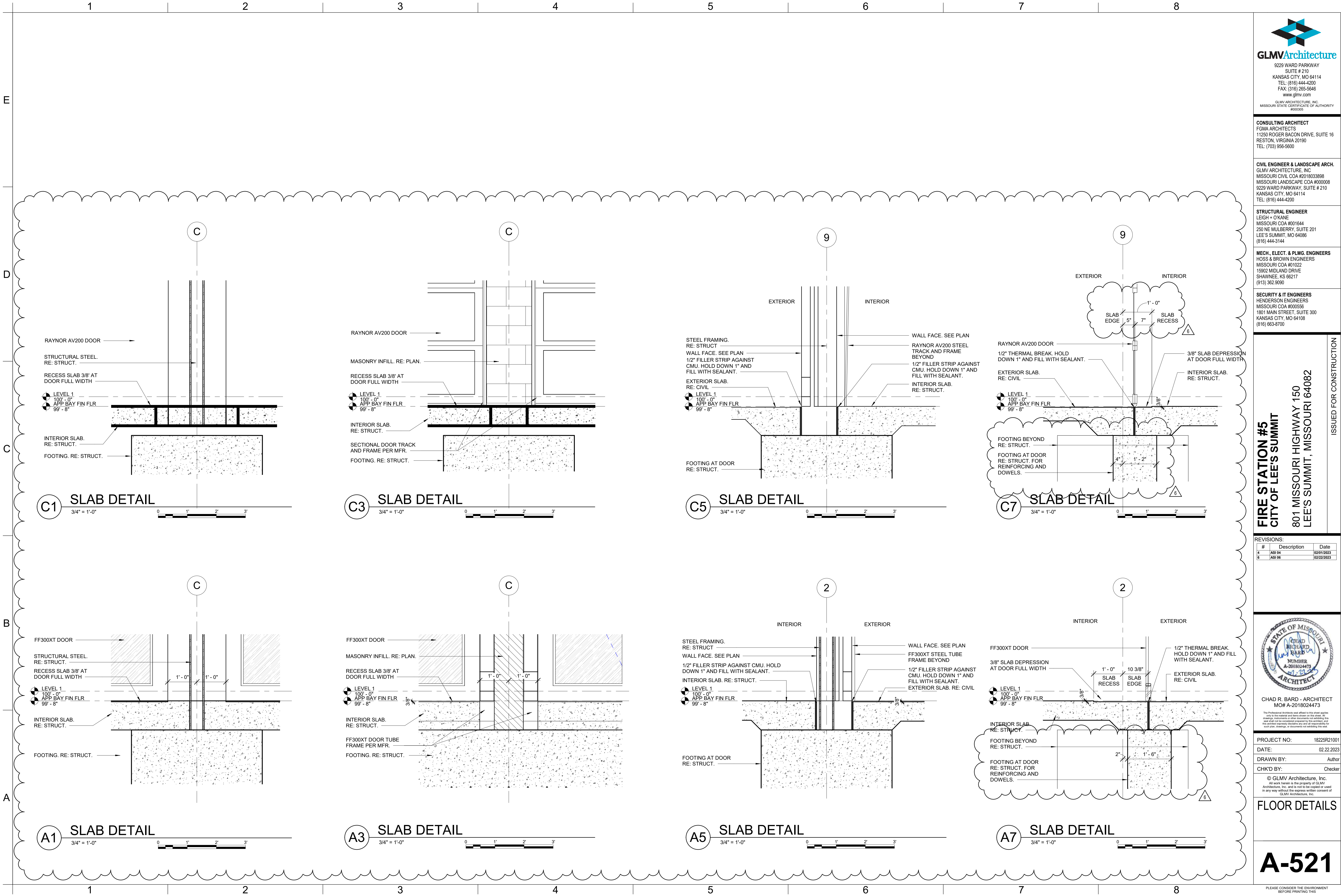
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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:		
#	Description	Date
4	ASB 04	02/01/2023
6	ASB 06	02/22/2023



CHAD R. BARD - ARCHITECT  
MO# A-2018024473

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DATE:	02.22.2023
DRAWN BY:	Author
CHK'D BY:	Checker

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**FLOOR DETAILS**

**A-521**

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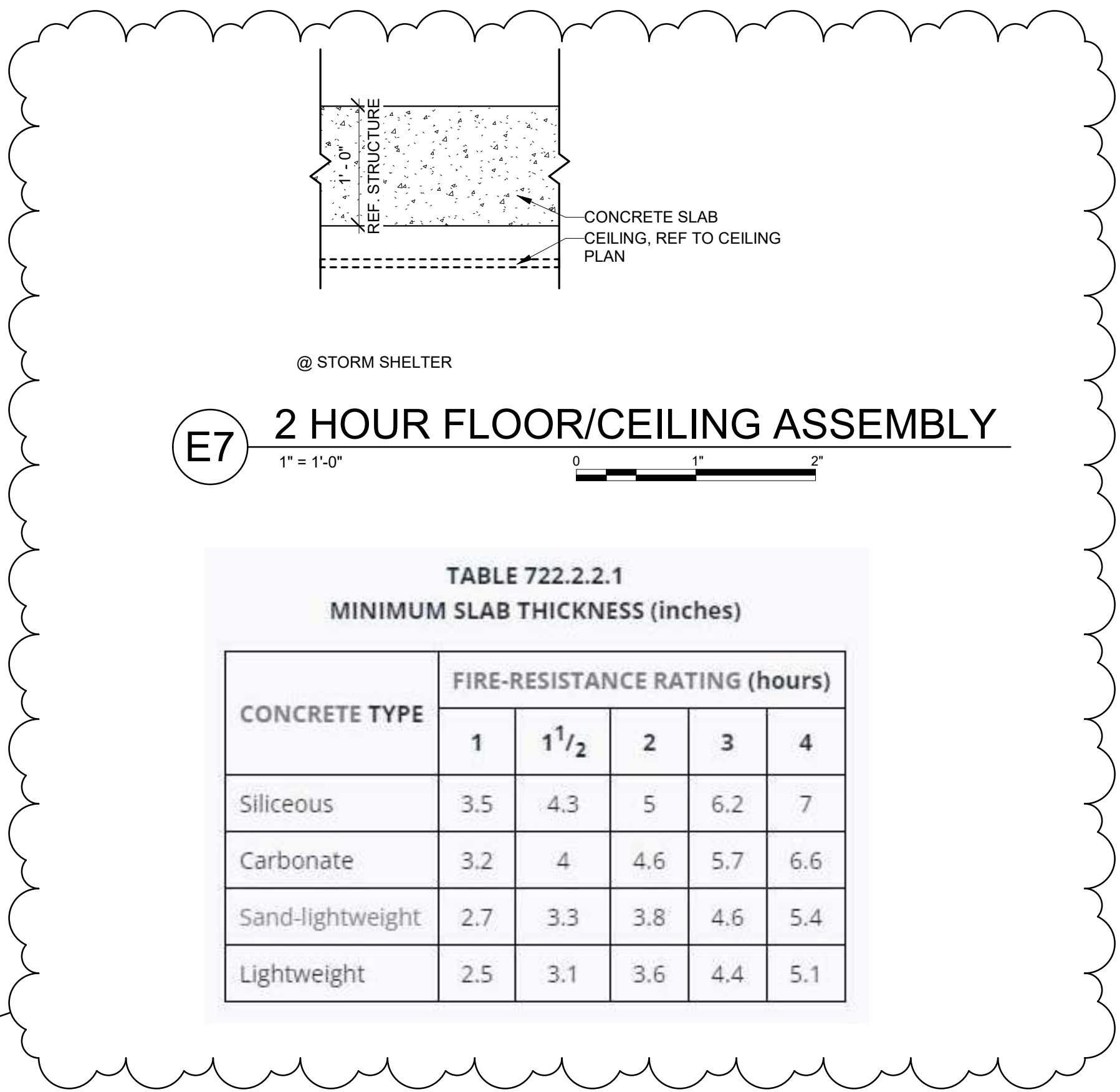
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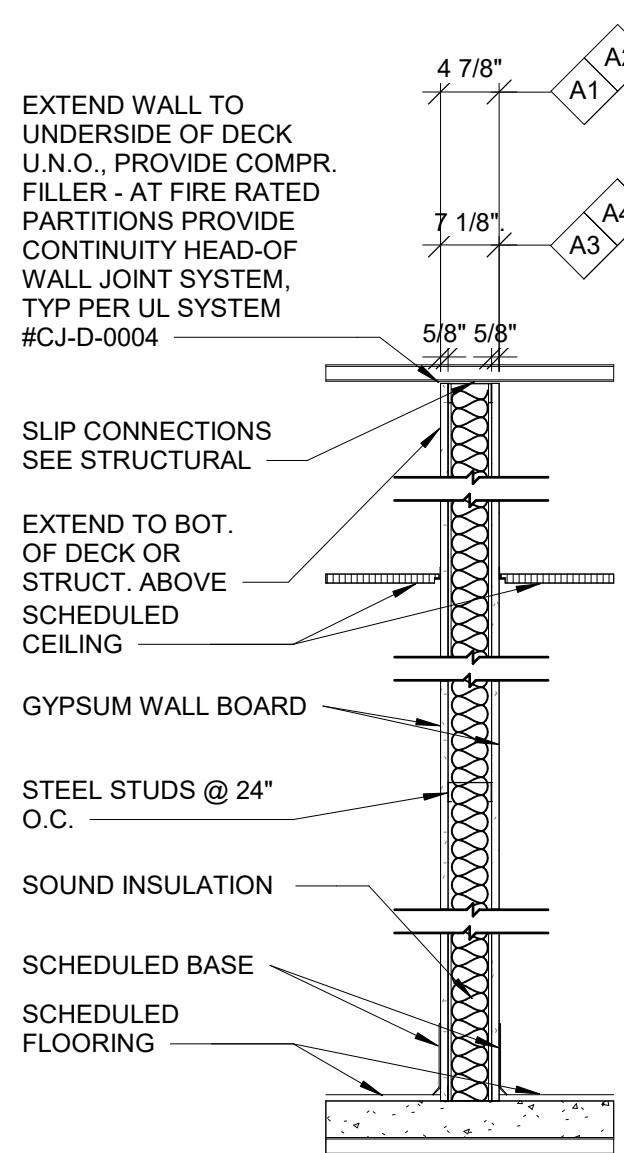
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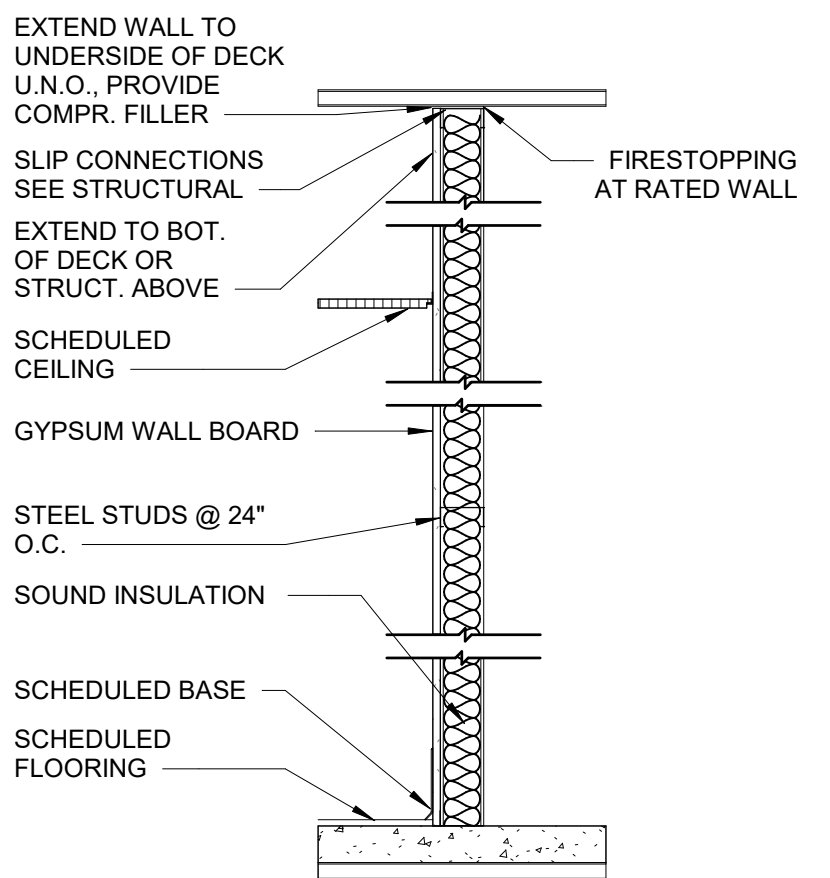


E7 2 HOUR FLOOR/CEILING ASSEMBLY  
1" = 1'-0"

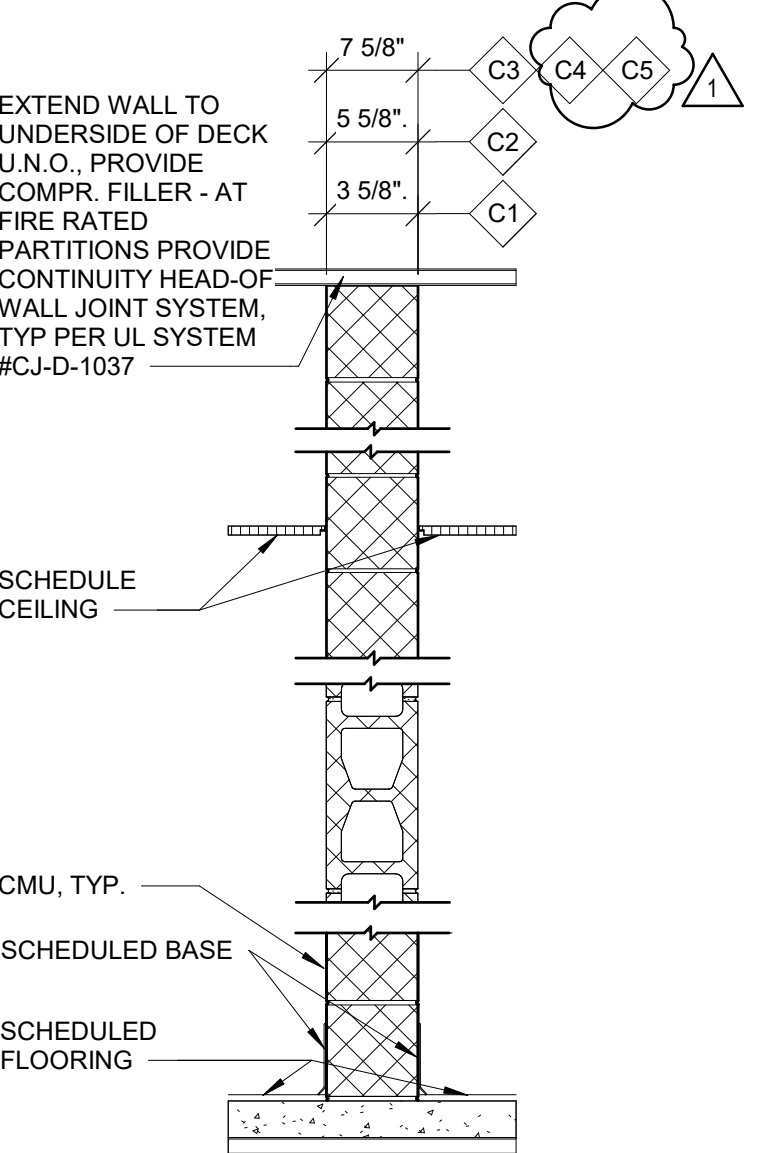
TABLE 722.2.2.1 MINIMUM SLAB THICKNESS (inches)					
CONCRETE TYPE	FIRE-RESISTANCE RATING (hours)				
	1	1 1/2	2	3	4
Siliceous	3.5	4.3	5	6.2	7
Carbonate	3.2	4	4.6	5.7	6.6
Sand-lightweight	2.7	3.3	3.8	4.6	5.4
Lightweight	2.5	3.1	3.6	4.4	5.1



- A1 3 5/8" STEEL STUD PARTITION  
- 1 LAYER 5/8" GWB EACH SIDE  
- FINISH PER SCHEDULE
- A2 3 5/8" STEEL STUD PARTITION  
- 1 LAYER 5/8" TYPE 'X' GWB EACH SIDE  
- FINISH PER SCHEDULE  
- 1 HR FIRE RATING PER UL DESIGN NO. - U419  
- STC 48
- A3 6" STEEL STUD PARTITION  
- 1 LAYER 5/8" GWB EACH SIDE  
- FINISH PER SCHEDULE  
- STC 44
- A4 6" STEEL STUD PARTITION  
- 1 LAYER 5/8" TYPE 'X' GWB EACH SIDE  
- FINISH PER SCHEDULE  
- 1 HR FIRE RATING PER UL DESIGN NO. - U419
- A5 6" STEEL STUD PARTITION  
- 2 LAYERS 5/8" TYPE 'X' GWB ONE SIDE  
- 1 LAYER 5/8" TYPE 'X' GWB ONE SIDE  
- FINISH PER SCHEDULE  
- 1 HR FIRE RATING PER UL DESIGN NO. - U419



- B3 3 5/8" STEEL STUD PARTITION  
- 1 LAYER 5/8" GWB 1 SIDE
- B4 7/8" MTL FURRING CHANNELS@ 24" O.C.  
- 1 LAYER 5/8" GWB
- B5 6" MTL FURRING CHANNELS@ 24" O.C.  
- 1 LAYER 5/8" GWB



- C1 4" NOM. CMU PARTITION  
- FINISH PER SCHEDULE
- C2 6" NOM. CMU PARTITION  
- FINISH PER SCHEDULE
- C3 8" NOM. CMU PARTITION  
- FINISH PER SCHEDULE
- C4 8" NOM. CMU PARTITION  
- FINISH PER SCHEDULE  
- 1 HR FIRE RATING PER UL DESIGN NO. - U906
- C5 8" NOM. CMU PARTITION  
- FINISH PER SCHEDULE  
- 2 HR FIRE RATING PER UL DESIGN NO. - U906

A5 PARTITION TYPES  
3/4" = 1'-0"



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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

#	Description	Date
1	ASB 01	11/21/2022



PAUL J. MICHELL - ARCHITECT  
MO# A-2009021701

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DATE:	11.21.2022
DRAWN BY:	KSK
CHK'D BY:	PJM

**PARTITION TYPES**

**A-601**

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UL Product iQ®

BXUV.U906 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Last Updated on 2022-06-06

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States  
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States  
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada  
Design Criteria and Allowable Variances

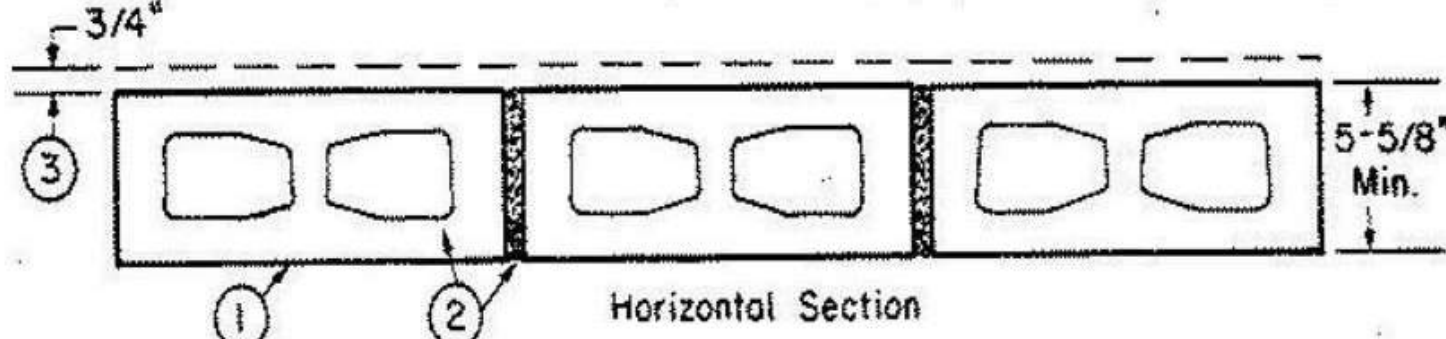
Design No. U906

June 6, 2022

Bearing Wall Rating — 2 HR.  
Nonbearing Wall Rating — 2 HR.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Concrete Blocks\*** — Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr).  
See **Concrete Blocks** category for list of eligible manufacturers.

**ANCHOR CONCRETE PRODUCTS INC**

**GAGNE & SON CONCRETE BLOCK INC**

**GLENWOOD MASONRY PRODUCTS**

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

**OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS**

**WESTBROOK CONCRETE BLOCK CO INC**

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. **Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. **Foamed Plastic\*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).  
**ATLAS ROOFING CORP** — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

**DUPONT DE NEMOURS, INC.** — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax HI Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

**FIRESTONE BUILDING PRODUCTS CO L L C** — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

**HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC** — Types "Xci-Class A", "Xci 286", "Xci Foil (Class A)"

**RMAX, A BUSINESS UNIT OF SIKA CORPORATION** — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

**JOHNS MANVILLE** — Type "AP Foil-Faced Foam Sheathing"

4A. **Building Units\*** — As an alternate to Item 4, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.  
**RMAX, A BUSINESS UNIT OF SIKA CORPORATION** — "Thermasheath-SI", "ECOBASci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply"

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

#	Description	Date
1	ASB 01	11/21/2022

  
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MO# A-2009021701  
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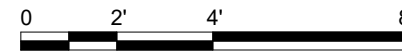
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UL DETAILS

**A-603**




$$1/4" = 1'-0"$$


1. ALL EXTERIOR GLAZING IS GL-1 (U.N.O.)
2. WINDOW ELEVATIONS VIEWED FROM BUILDING EXTERIOR SIDE (U.N.O.)
3. REFER TO DOOR SCHEDULE FOR EXTERIOR ALUMINUM STOREFRONT DOOR LOCATIONS
4. REFER TO SPECIFICATIONS FOR GLAZING PERFORMANCE REQUIREMENTS
5. ALL FRAMES HAVE 2" WIDE FACE (U.N.O.)
6. ALL FRAMES NOTED AS "INTERIOR" ARE HOLLOW METAL (HM); ALL EXTERIOR LOCATIONS ARE PRE-FINISHED ALUMINUM FRAMED STOREFRONT FRAMES

- |   |  |    |  |
|---|--|----|--|
| GL-1  | 1" INSULATED GLAZING UNIT                    | 1. | ALL EXTERIOR GLAZING IS GL-1 (U.N.O.)                                  |
| GL-2  | 1/4" GLAZING UNITS                           | 2. | WINDOW ELEVATIONS VIEWED FROM BUILDING EXTERIOR SIDE (U.N.O.)          |
| GL-3  | 1-HOUR FIRE-RATED GLAZING                    | 3. | REFER TO DOOR SCHEDULE FOR EXTERIOR ALUMINUM STOREFRONT DOOR LOCATIONS |
|  | INSULATED LAMINATED PRE-FINISHED METAL PANEL | 4. | REFER TO SPECIFICATIONS FOR GLAZING PERFORMANCE REQUIREMENTS           |
|  | GLAZING MATERIAL (GL)                        |    |  |

NOTE:  
ADJACENT CONST. IS THE SAME (THE EXTENT VARIES) →

B (A SIM.)

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PROJECT NO: 18225R2100

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CHK'D BY: GLV

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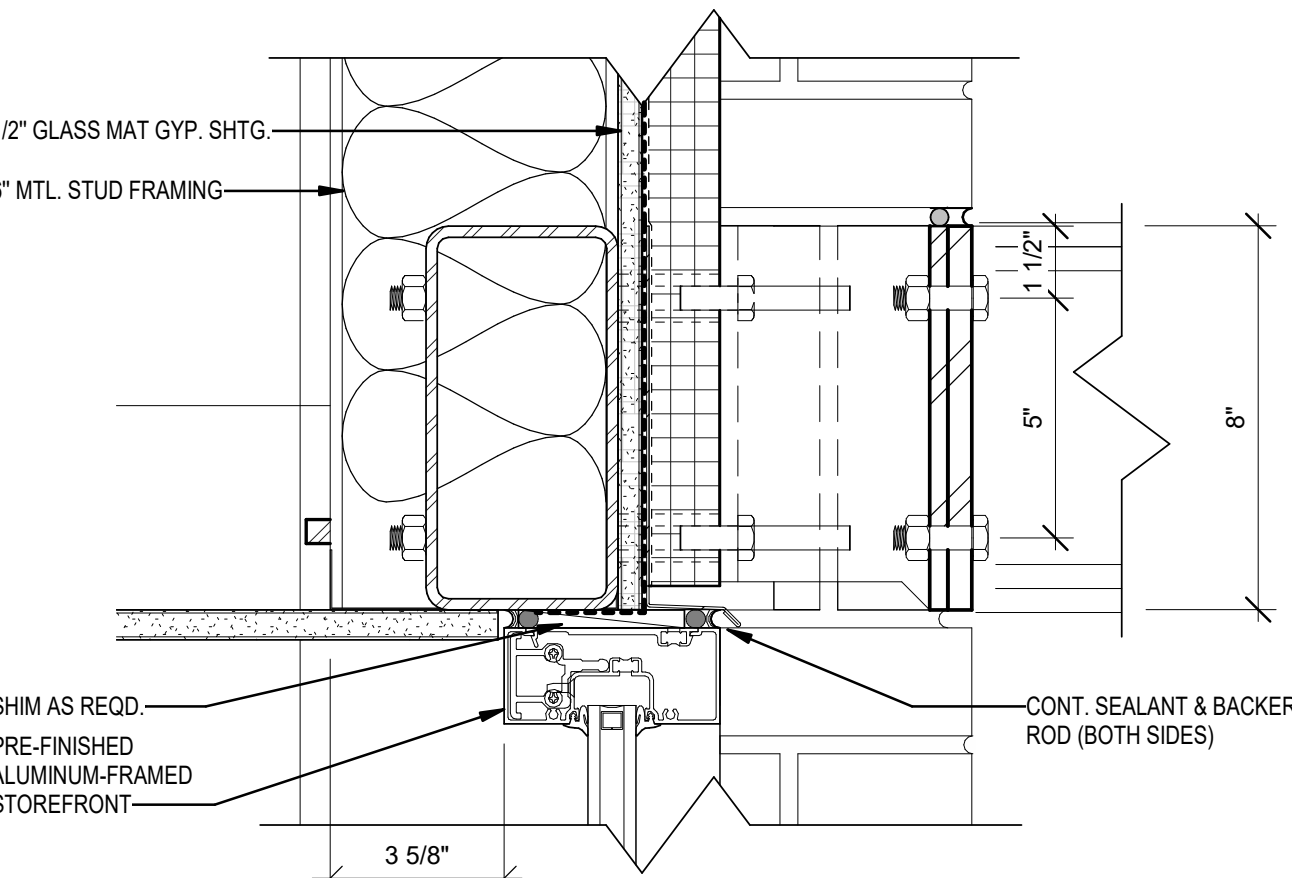
## WINDOW ELEVATIONS

# A-610

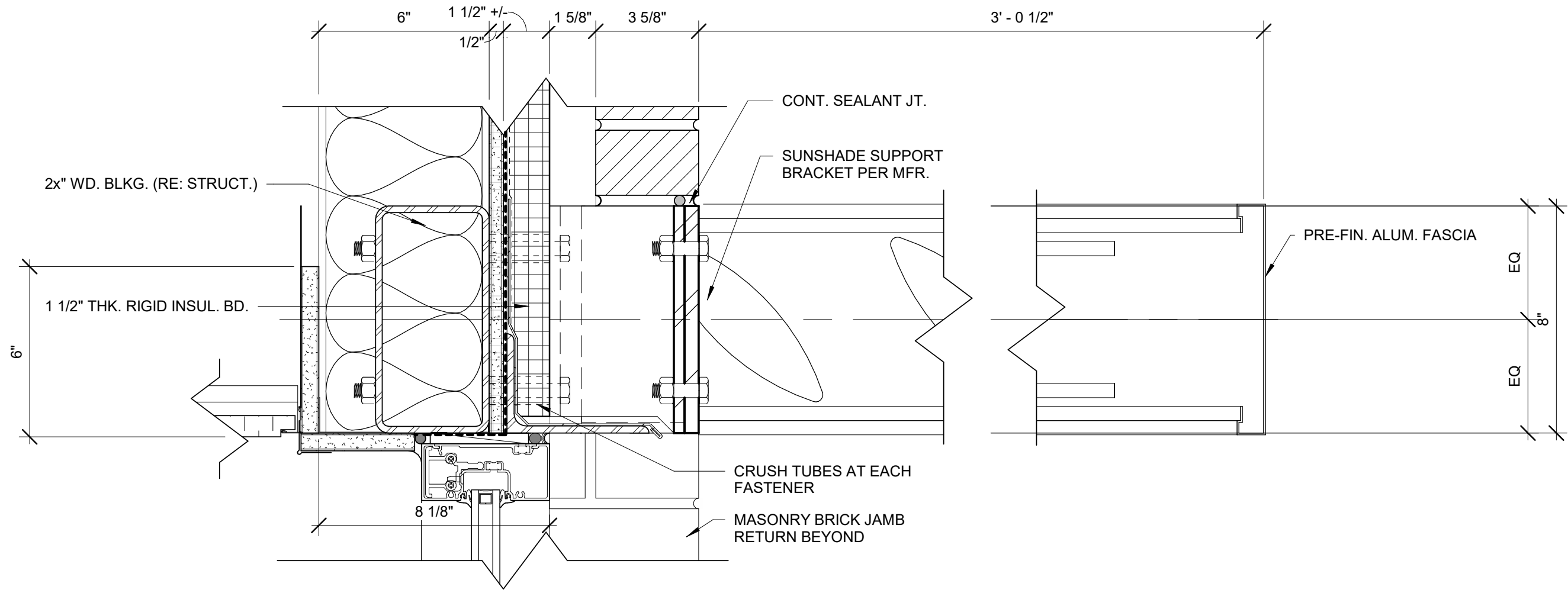
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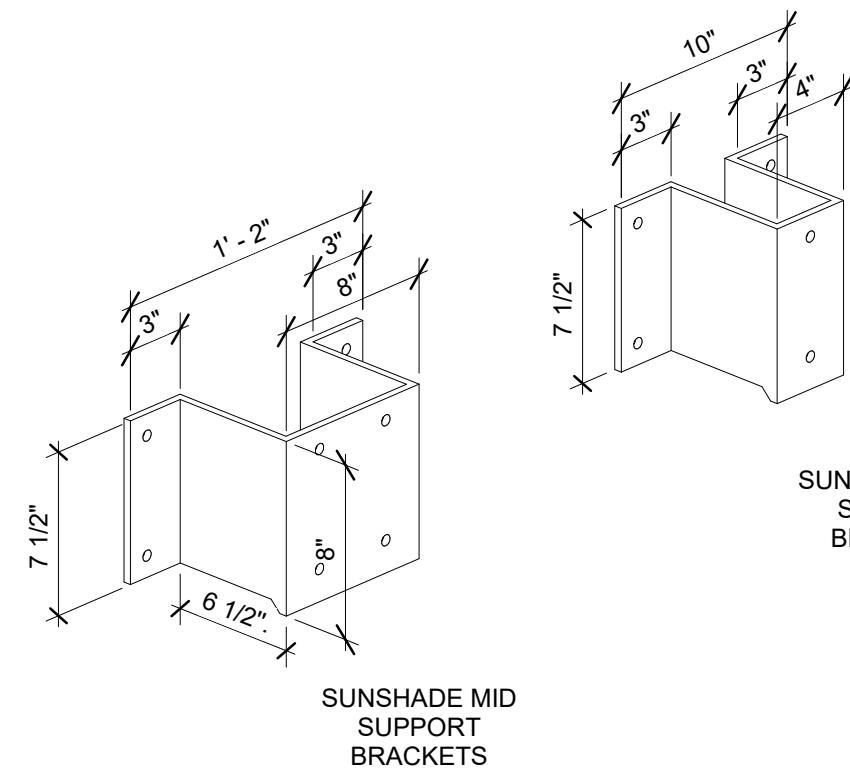
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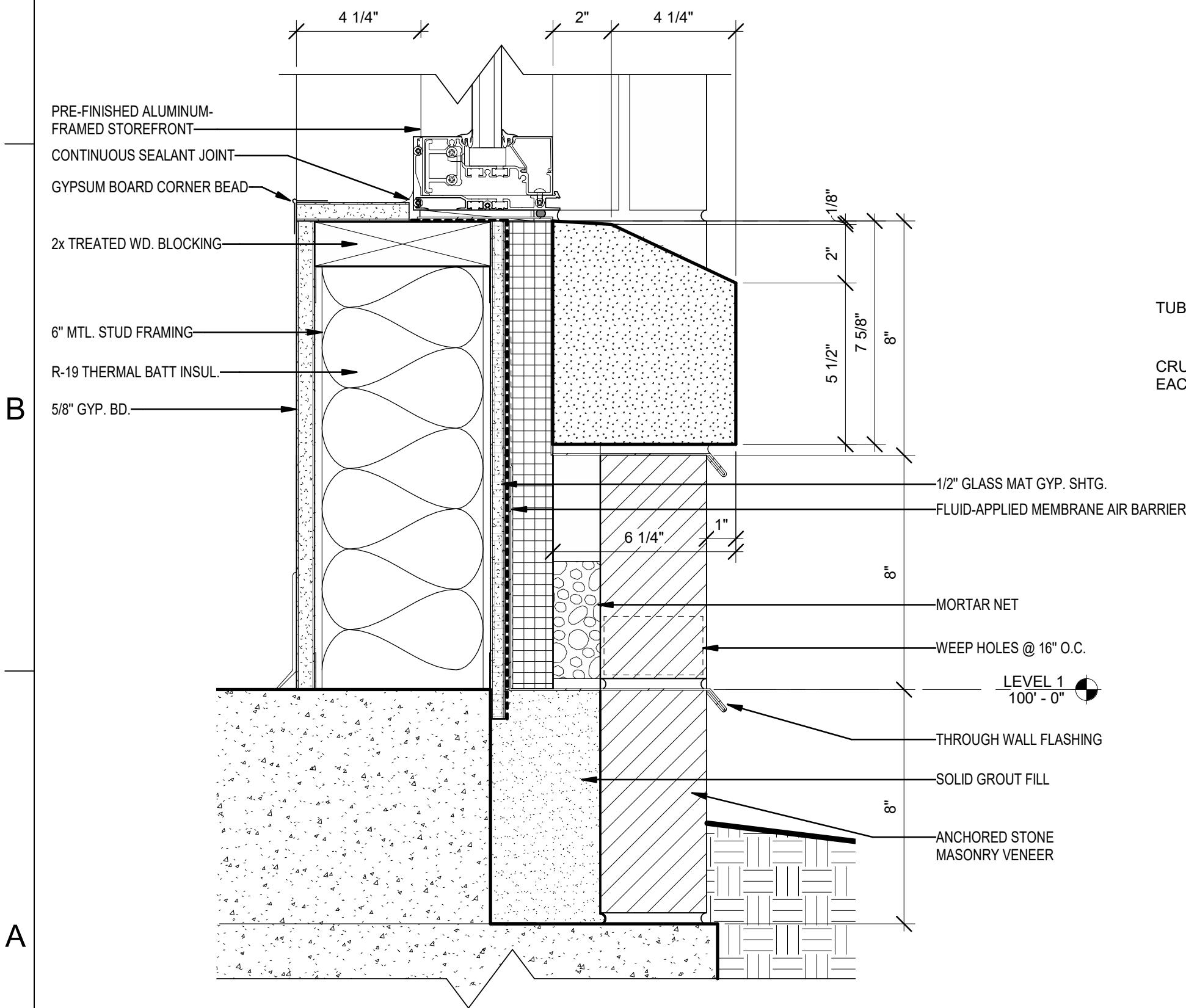
C1 WINDOW HEAD DETAIL @ EIFS  
3" = 1'-0"



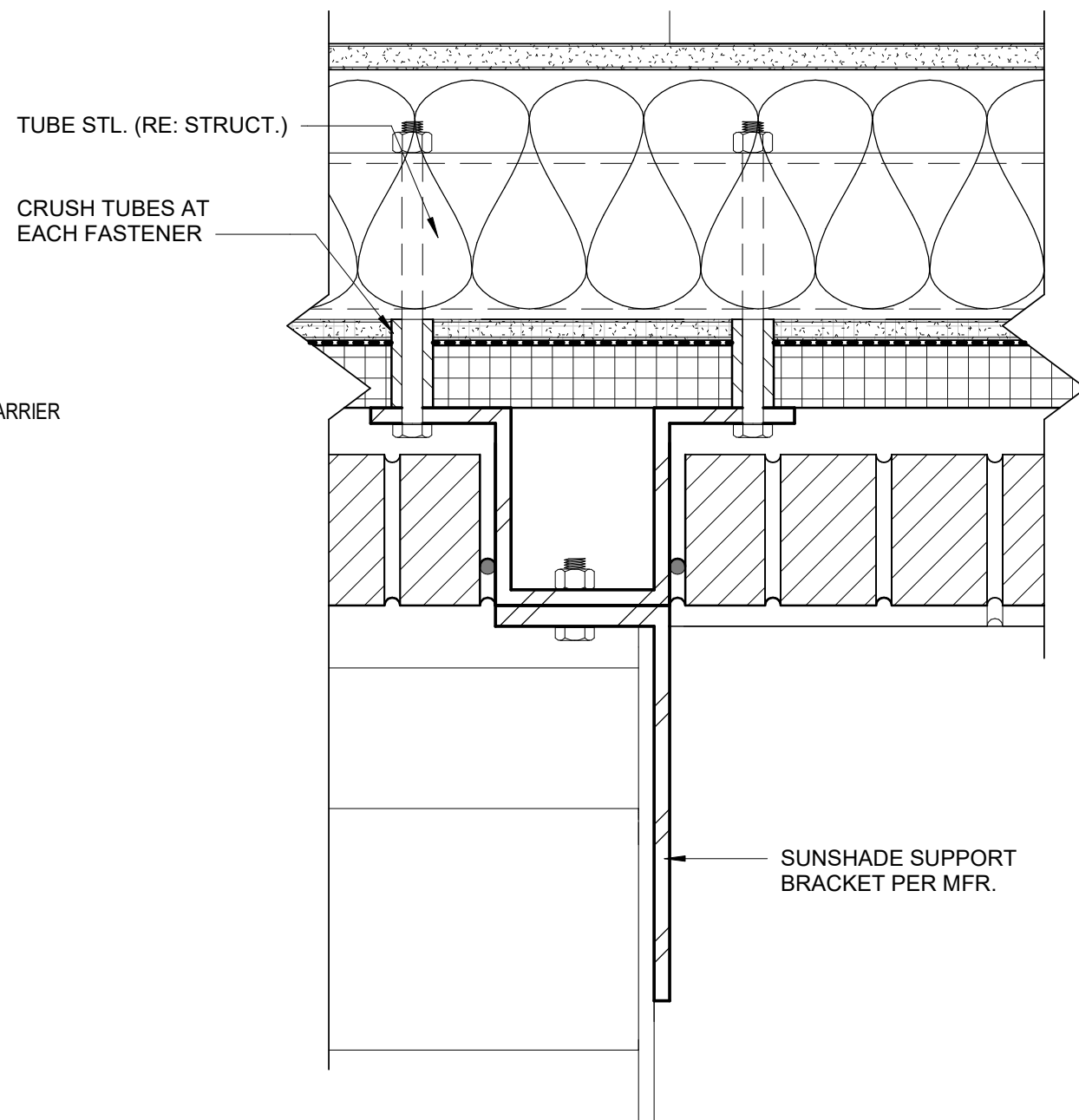
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3" = 1'-0"



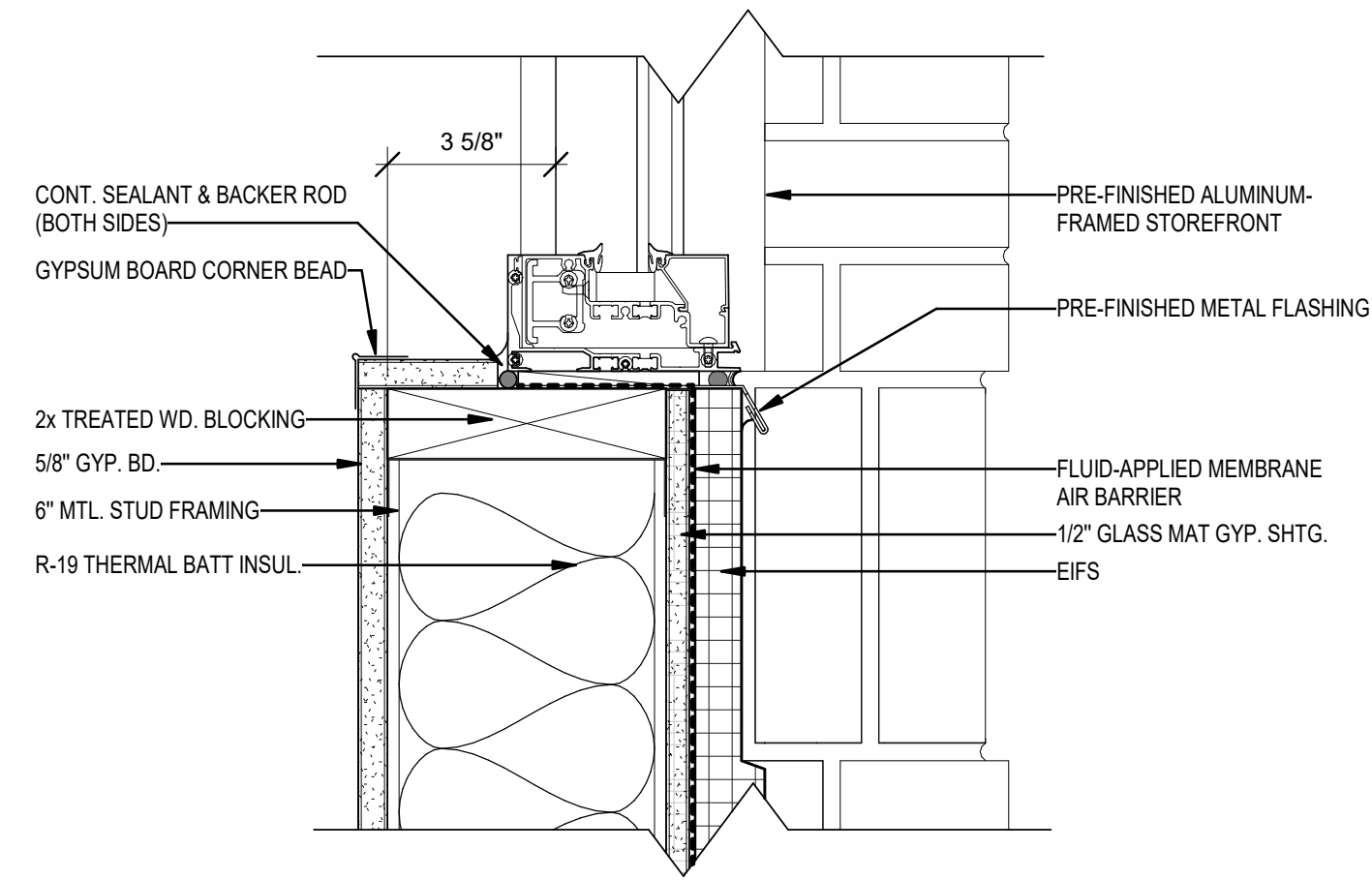
C7 SUNSHADE BRACKET  
0 3 6 1' 1'-6"



A1 WINDOW SILL DETAIL  
3" = 1'-0"



A3 SUNSHADE PLAN DETAIL  
3" = 1'-0"



A5 WINDOW SILL @ EIFS  
3" = 1'-0"

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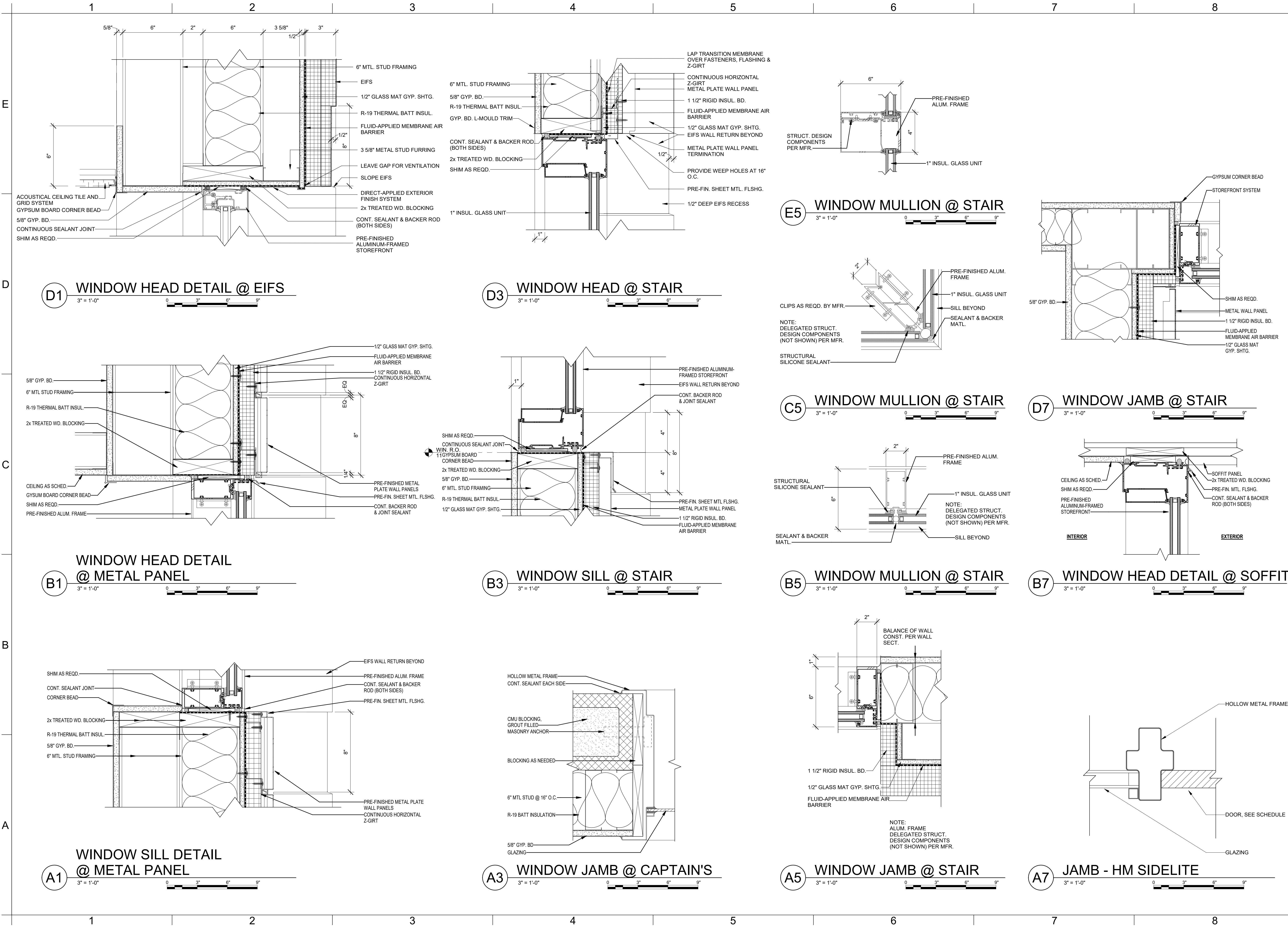
**WINDOW DETAILS**

**A-611**

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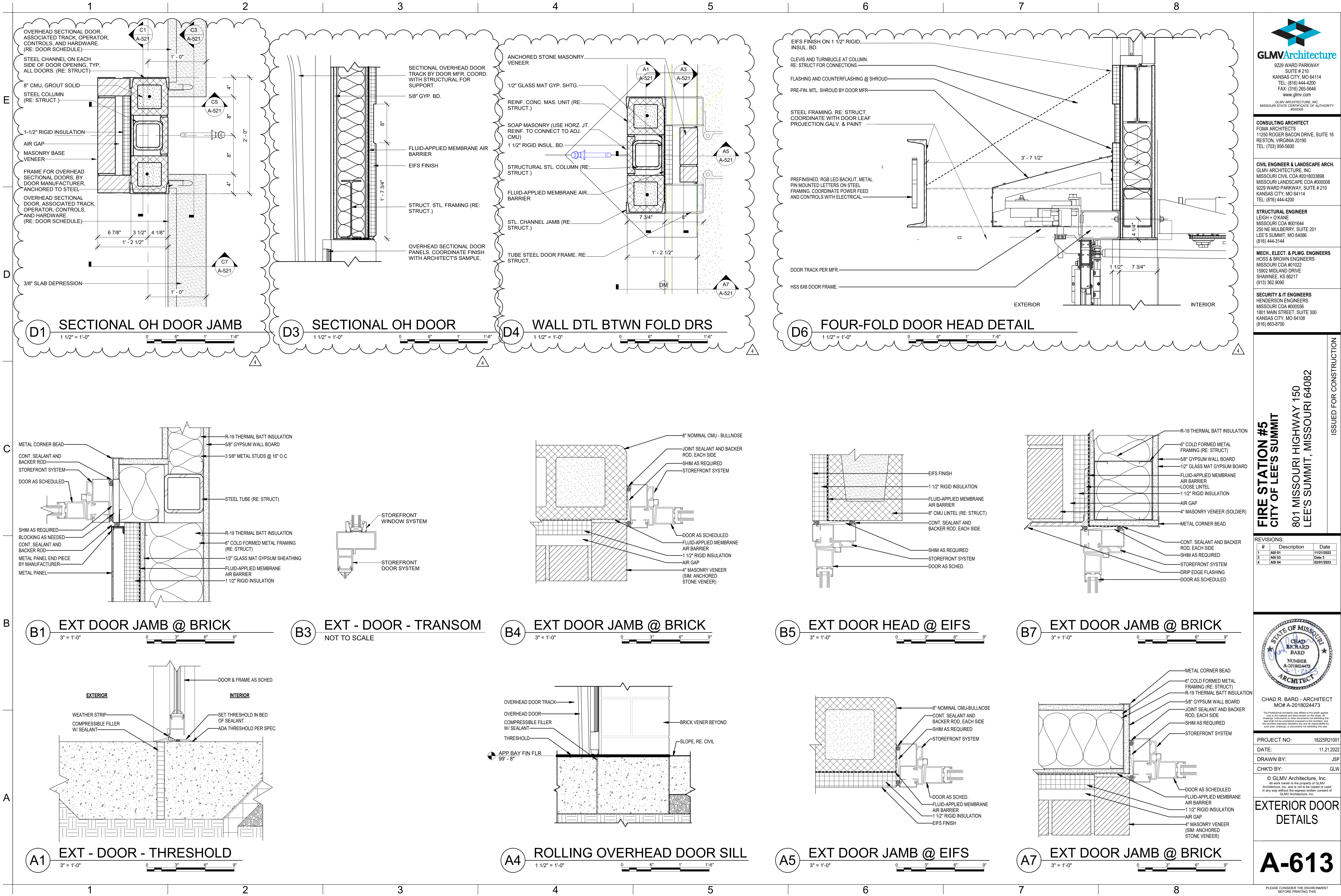
**WINDOW DETAILS**

**A-612**

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#	Description	Date
1	ASH 01	11/21/2022
3	ASH 03	04/03/2023
4	ASH 04	02/01/2023



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MO# A-2018024473

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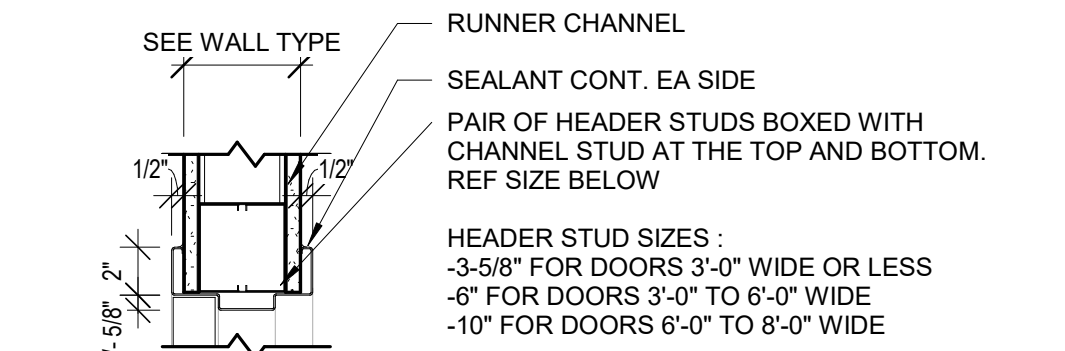
PROJECT NO: 18225R21001  
DATE: 11/21/2022  
DRAWN BY: JSP  
CHK'D BY: GLW

**EXTERIOR DOOR DETAILS**

**A-613**

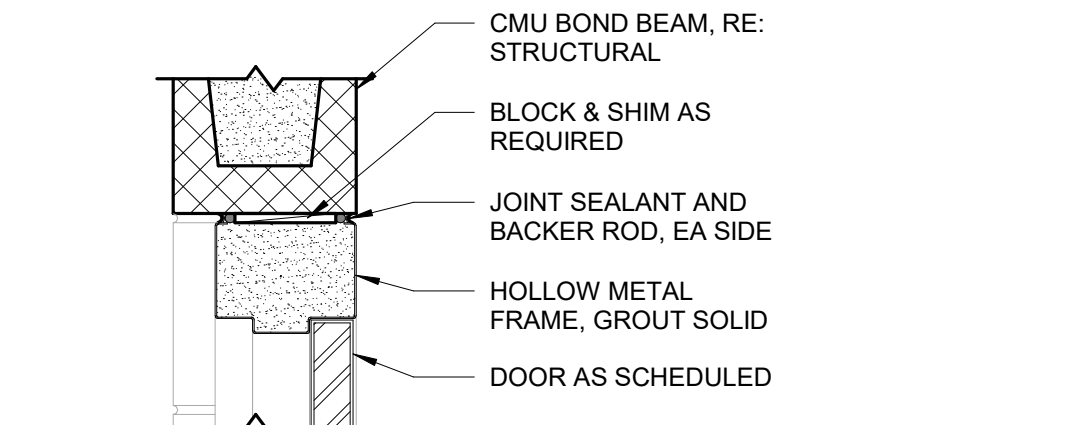


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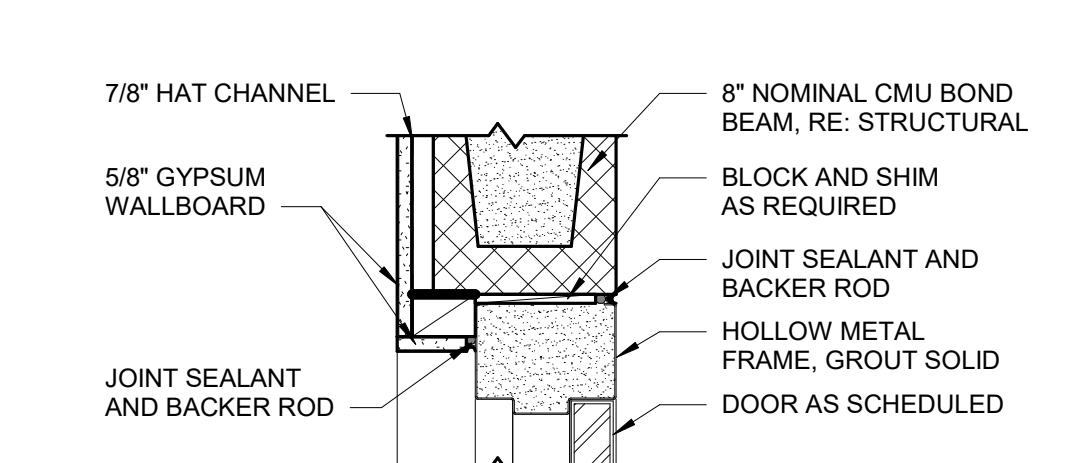
**DOOR - HEAD @ INT METAL STUD WALL**  
E1 1 1/2" = 1'-0"

D



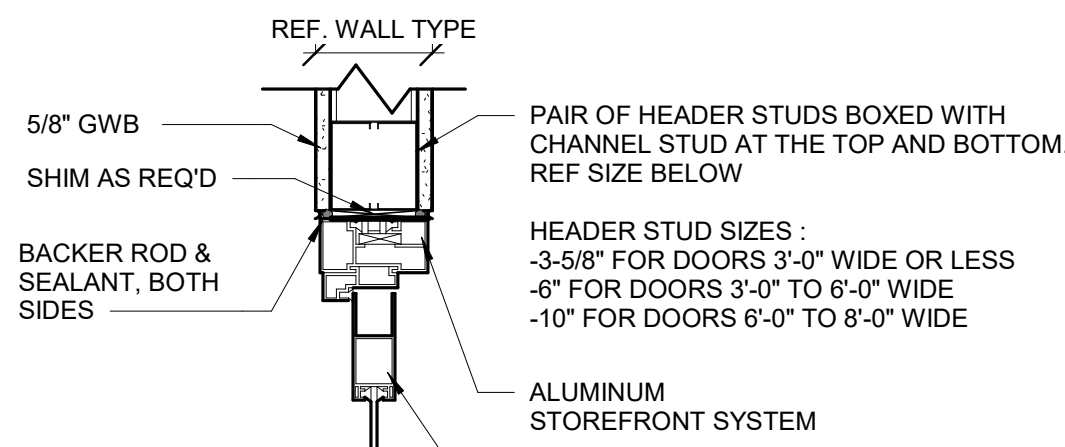
**DOOR - HEAD @ INT 8" CMU**  
D1 1 1/2" = 1'-0"

C



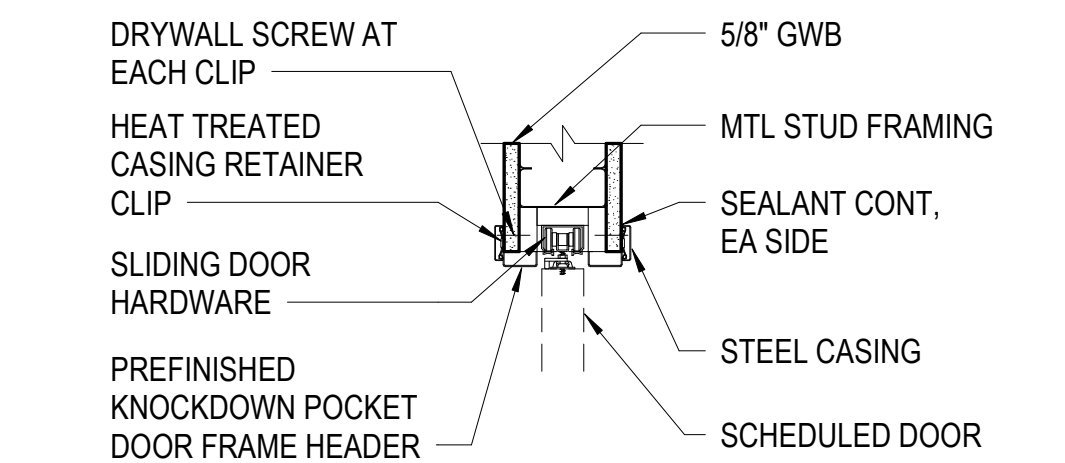
**DOOR - HEAD @ INT 8" CMU W/ FURRING 1 SIDE**  
C1 1 1/2" = 1'-0"

B



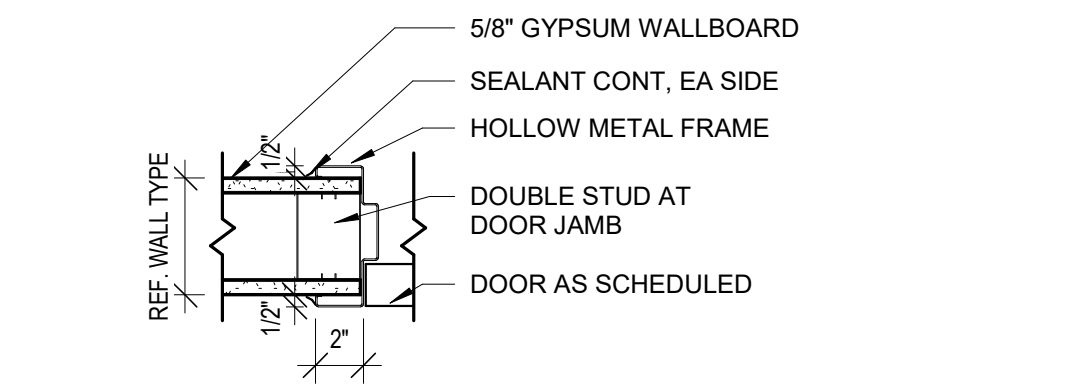
**HEAD - STOREFRONT**  
B1 1 1/2" = 1'-0"

A



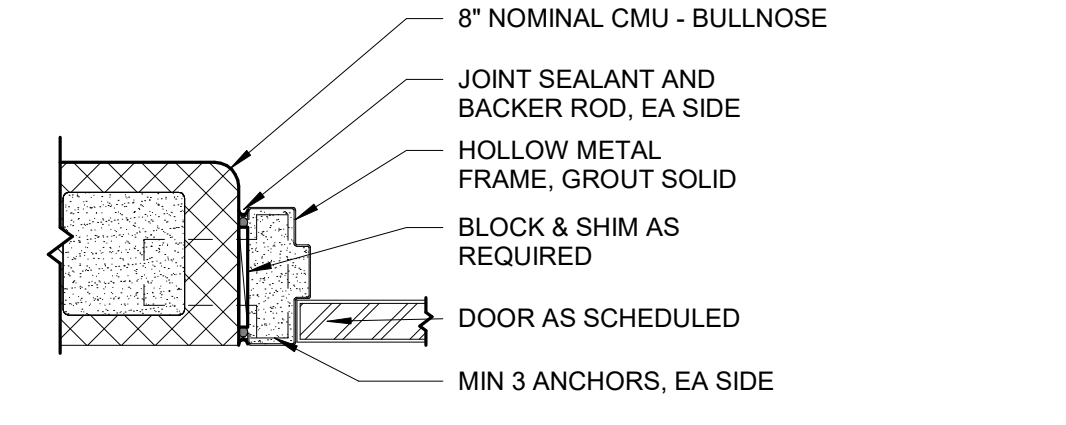
**DOOR HEAD DETAIL - POCKET**  
A1 1 1/2" = 1'-0"

E



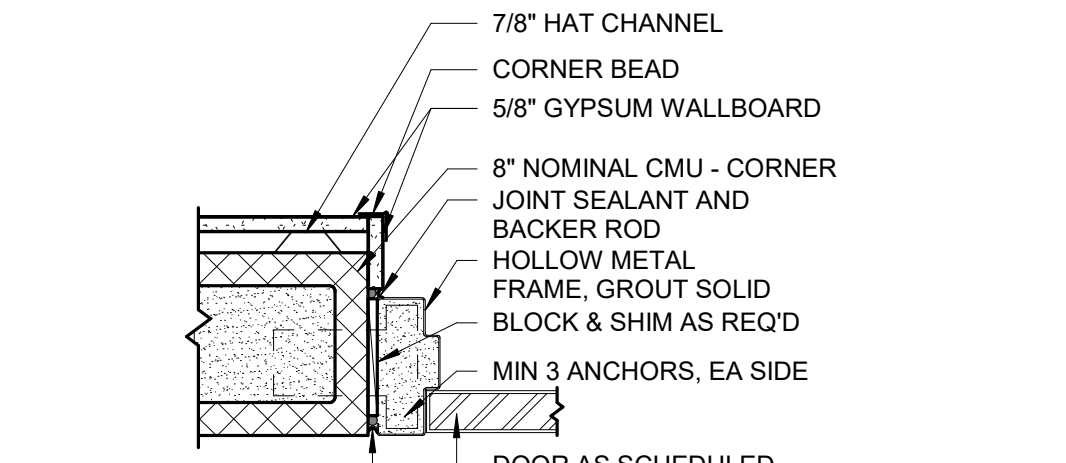
**DOOR - JAMB @ INT METAL STUD WALL**  
E3 1 1/2" = 1'-0"

D



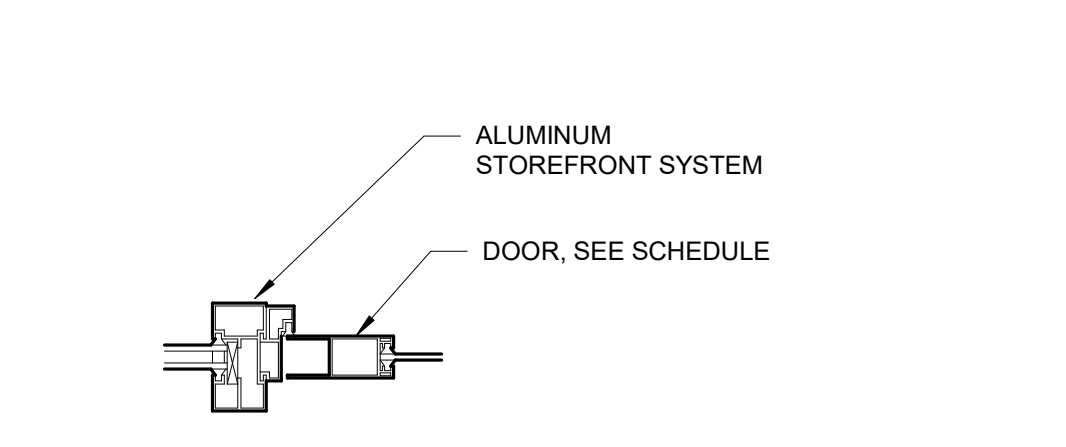
**DOOR - JAMB @ INT 8" CMU**  
D3 1 1/2" = 1'-0"

C



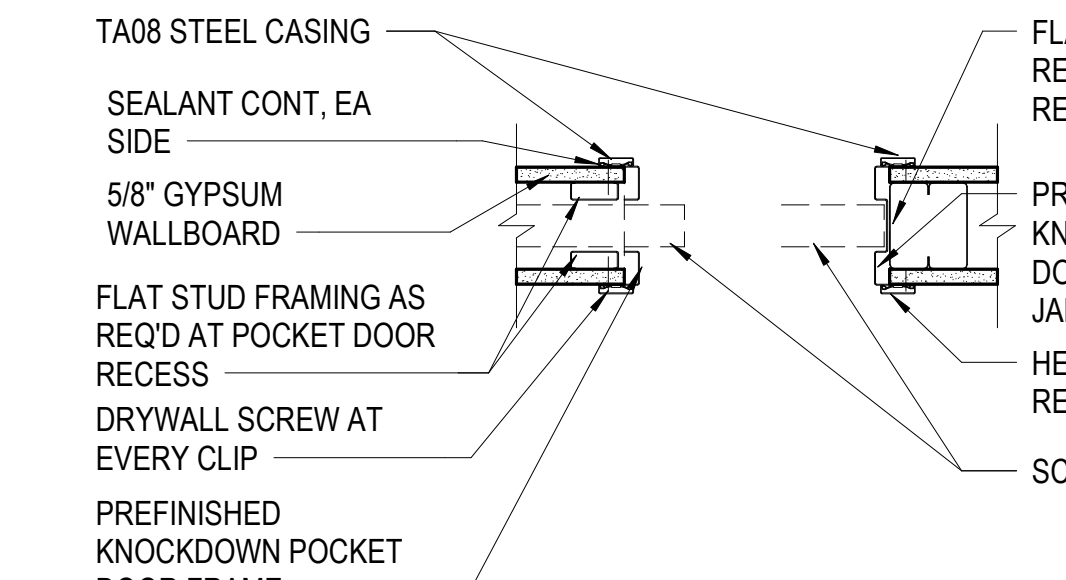
**DOOR - JAMB @ INT 8" CMU W/ FURRING 1 SIDE**  
C3 1 1/2" = 1'-0"

B



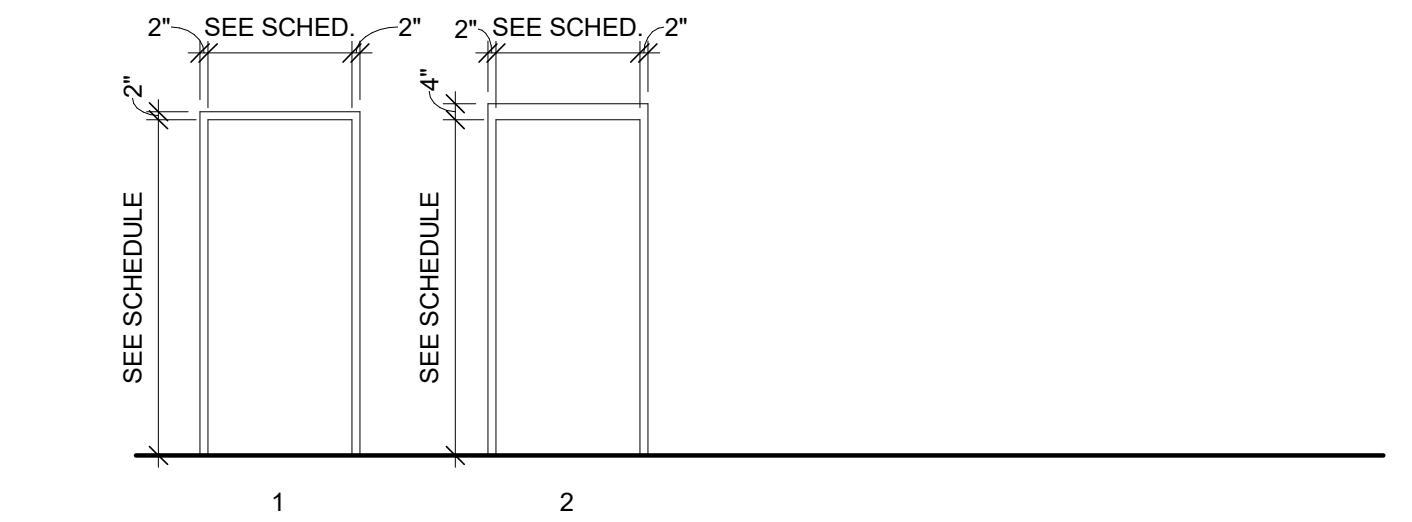
**JAMB - STOREFRONT**  
B3 1 1/2" = 1'-0"

A



**DOOR JAMB DETAIL - POCKET**  
A3 1 1/2" = 1'-0"

E



**DOOR FRAME LEGEND**

**DOOR LEGEND**  
1/4" = 1'-0"

**GLAZING LEGEND**

- GL-1 1" INSULATED GLAZING UNIT  
GL-2 1/4" GLAZING UNITS  
GL-3 1-HOUR FIRE-RATED GLAZING  
INSULATED LAMINATED PRE-FINISHED METAL PANEL  
GLAZING MATERIAL (GL)

**DOOR HARDWARE NOTES:**

- HW-1 - ACCESS CONTROL - CARD READER 1 SIDE, FREE EGRESS OTHER  
HW-2 - PASSAGE - ALWAYS UNLOCKED BOTH WAYS  
HW-3 - PRIVACY - PINHOLE OUTSIDE, PUSH BUTTON LOCK INSIDE TO LOCK OUTSIDE LEVER, RELEASE BY ROTATING INSIDE LEVER. FREE EGRESS FROM INSIDE  
HW-4 - OFFICE - KEY OUTSIDE, PUSH/TURN BUTTON INSIDE TO LOCK AND UNLOCK OUTSIDE LEVER, FREE EGRESS FROM INSIDE  
HW-5 - STORE ROOM - OUTSIDE ALWAYS LOCKED. LATCHBOLT RELEASED W/ KEY OUTSIDE OR ROTATING INSIDE LEVER. FREE EGRESS FROM INSIDE.  
HW-6 - CLASSROOM - KEY OUTSIDE TO LOCK OR UNLOCK OUTSIDE LEVER. FREE EGRESS FROM INSIDE.  
HW-7 - PULL HARDWARE OUTSIDE. THUMB TURN LOCK FROM INSIDE. FREE EGRESS FROM INSIDE.  
HW-8 - STORM SHELTER HARDWARE.

**DOOR NOTES**

- DOOR SCHEDULE LEGEND:**  
ALUM ALUMINUM  
ANOD ANODIZED  
HM HOLLOW METAL  
IM INSULATED METAL  
PTD PAINTED  
SCW SOLID CORE WOOD  
STL STEEL  
STN STAINED  
T TEMPERED GLASS
- GENERAL NOTES:**  
1. ALL INTERIOR DOOR GLAZING IS GL-2 (U.N.O.)  
2. ALL EXTERIOR DOORS ARE TO HAVE INSULATED GLAZING GL-1  
3. ELEVATIONS VIEWED FROM BUILDING EXTERIOR SIDE (U.N.O.)  
4. SOLID CORE WOOD DOORS ARE 1 3/4" THICK (U.N.O.)  
5. EXTERIOR ALUMINUM STOREFRONT DOORS ARE 2" THICK (U.N.O.)  
6. PROVIDE PANIC HARDWARE IN ACCORDANCE IBC 1010.1.10  
7. ALL DOORS WITH GLAZING TO HAVE TEMPERED SAFETY GLAZING PER IBC 2406.  
8. DOOR HARDWARE AND CLOSERS SHALL CONFORM TO ANSI 117.1 & ADA REQUIREMENTS AT ALL DOORS.  
9. THE OPENING FORCE FOR INTERIOR DOORS SHALL NOT EXCEED A 5-POUND FORCE AND SHALL SWING FULLY OPEN WHEN SUBJECTED TO A 15 POUND FORCE. THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15 POUND FORCE. COMPLY WITH IBC 1010.1.3 AND ANSI 117.1.404.2.8.  
10. FIRE DOORS MUST BE SELF-CLOSING AND LATCHING PER NFPA 80-99  
11. ENTRANCE DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR DEVICE. MANUALLY OPERATED FLUSH BOLTS, DEAD BOLTS, OR SURFACE BOLTS ARE NOT PERMITTED.  
12. EXTERIOR HM DOORS SHALL BE INSULATED U.N.O.  
13. FOR DOOR HARDWARE SET DESCRIPTIONS, SEE SPECIFICATION SECTION 087100 DOOR HARDWARE.

**DOOR SCHEDULE**

MARK	ROOM NAME	DOOR		FRAME		DETAIL		HDMR NOTES	REMARKS
		WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	GLAZING		
100A	ENTRY	3'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	PANIC HARDWARE
100B	ENTRY VEST.	3'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	PANIC HARDWARE, CARD READER
101	PUBLIC TOILET	3'-0"	7'-0"	A	SCW	STN	-	1	
103	ADMIN. TOILET	3'-0"	7'-0"	A	SCW	STN	-	1	
105	TEL / RADIO	3'-0"	7'-0"	A	SCW	STN	-	1	
106	CONF. RM.	3'-0"	7'-0"	D	SCW	STN	GL-2	1	
108	CAPTAIN'S OFFICE	3'-0"	7'-0"	A	SCW	STN	-	1	
109A	RAMP	3'-0"	7'-0"	C	SCW	PTD	-	1	
109B	RAMP	3'-0"	7'-0"	D	ALUM	ANOD	-	1	
109C	APPARATUS BAY	3'-0"	7'-6"	C	HM	PTD	GL-2	1	
110	EMS STOR.	3'-0"	7'-6"	A	HM	PTD	-	1	
111	PPE / LOCKERS	3'-0"	7'-6"	A	STL	PTD	-	1	
112A	DECON	3'-0"	7'-6"	A	HM	PTD	-	1	
112B	DECON	3'-0"	7'-6"	A	STL	PTD	-	1	
113A	DECON TOIL.	3'-0"	7'-6"	A	HM	PTD	-	1	
113B	DECON TOIL.	3'-0"	7'-6"	A	HM	PTD	-	1	
114A	RAMP	3'-6"	7'-0"	C	SCW	PTD	GL-2	1	
114B	RAMP	3'-0"	7'-6"	D	ALUM	ANOD	GL-1	-	
114C	APPARATUS BAY	3'-0"	7'-6"	C	HM	PTD	GL-2	1	
115	JAN.	3'-0"	7'-0"	A	HM	PTD	-	1	
116A	KITCHEN	3'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	
116B	KITCHEN	3'-0"	7'-0"	D	ALUM	ANOD	GL-2	-	
119A	APPARATUS BAY	14'-0"	14'-0"	-	STL	PTD	-	-	
119B	APPARATUS BAY	14'-0"	14'-0"	-	STL	PTD	-	-	
119C	APPARATUS BAY	14'-0"	14'-0"	-	STL	PTD	-	-	
119D	APPARATUS BAY	3'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	
119E	APPARATUS BAY	3'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	
119F	APPARATUS BAY	14'-0"	14'-0"	-	ALUM	PTD	-	-	
119G	APPARATUS BAY	14'-0"	14'-0"	-	ALUM	PTD	-	-	
119H	APPARATUS BAY	14'-0"	14'-0"	-	ALUM	PTD	-	-	
120	UTILITY	3'-0"	7'-6"	A	HM	PTD	-	1	
121A	SHOP	3'-0"	7'-6"	A	HM	PTD	-	1	
121B	SHOP	3'-0"	7'-6"	A	HM	PTD	-	1	
122A	EXERCISE / WELLNESS	3'-0"	7'-6"	C	HM	PTD	GL-2	1	
122B	EXERCISE / WELLNESS	6'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	
200	CORRIDOR	3'-0"	7'-0"	B	SCW	STN	GL-2	1	
202	LOCKERS	3'-0"	7'-0"	A	SCW	STN	-	1	
202A	BUNK	3'-0"	7'-0"	A	SCW	STN	-	1	
202B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	1	
203	LOCKERS	3'-0"	7'-0"	A	SCW	STN	-	1	
203A	CAPTAIN'S BUNK	3'-0"	7'-0"	A	SCW	STN	-	1	
203B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	1	
204B	MEZZANINE	3'-0"	7'-0"	B	SCW	STN	GL-2	1	
205	LAUNDRY/JAN.	3'-0"	7'-0"	A	SCW	STN	-	1	
206	MECH.	3'-0"	7'-0"	B	SCW	STN	GL-2	1	
207	GENERAL STORAGE	3'-0"	7'-0"	A	SCW	STN	-	1	
208	LOCKERS	3'-0"	7'-0"	A	SCW	STN	-	1	
208A	BUNK	3'-0"	7'-0"	A	SCW	STN	-	1	
208B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	1	
209	LOCKERS	3'-0"	7'-0"	A	SCW	STN	-	1	
209A	BUNK	3'-0"	7'-0"	A	SCW	STN	-	1	
209B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	1	
210	LOCKERS	3'-0"	7'-0"	A	SCW	STN	-	1	
210A	BUNK	3'-0"	7'-0"	A	SCW	STN	-	1	
210B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	1	
211	LOCKERS	3'-0"	7'-0"	A	SCW	STN	-	1	
211A	BUNK	3'-0"	7'-0"	A	SCW	STN	-	1	
211B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	1	
212	LOCKERS	3'-0"	7'-0"	A	SCW	STN	-	1	
212A	BUNK	3'-0"	7'-0"	A	SCW	STN	-	1	
212B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	1	
213	LOCKERS	3'-0"	7'-0"	A	SCW	STN	-	1	
213A	BUNK	3'-0"	7'-0"	A	SCW	STN	-	1	
213B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	1	

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**FIRE STATION #5**  
CITY OF LEE'S SUMMIT  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

#	Description	Date
4	ASH 04	02/01/2023
6	ASH 06	02/22/2023



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MO# A-2018024473

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PROJECT NO: 18225R21001  
DATE: 02.22.2023  
DRAWN BY: JSP  
CHK'D BY: PJM

**DOOR AND FRAME SCHEDULE**

**A-621**



FILE PATH: BIM 360://18225R21001\_LeeSummitFireStation\_# 4 and #5LSMO\_FIRE STATION 5.rvt

E

D

C

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A

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3

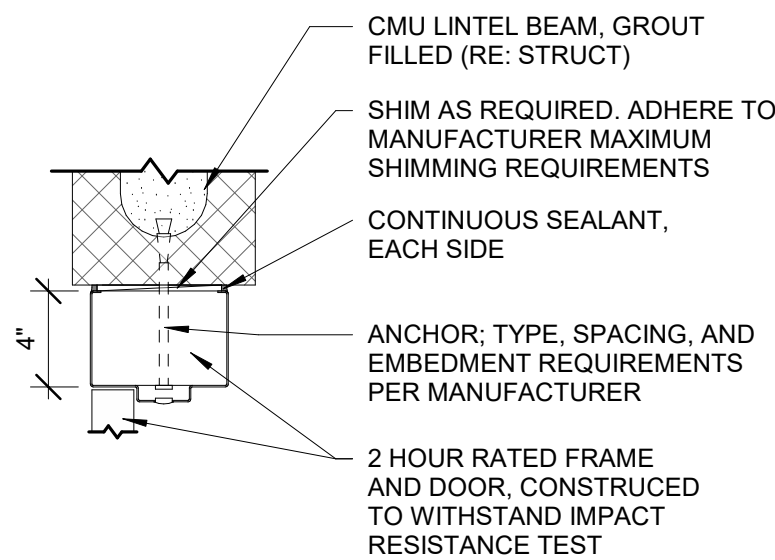
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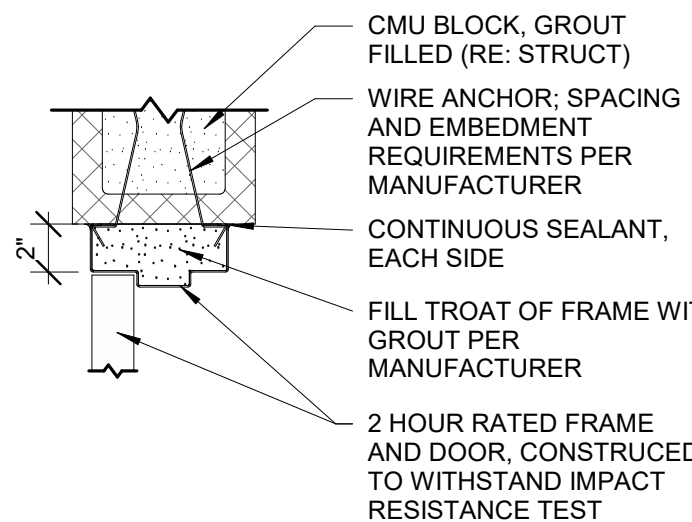
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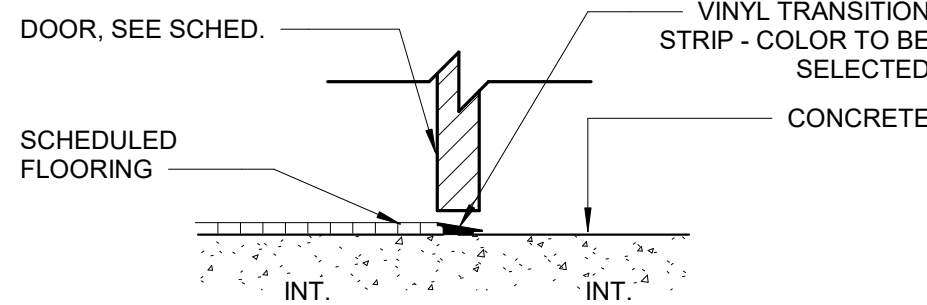
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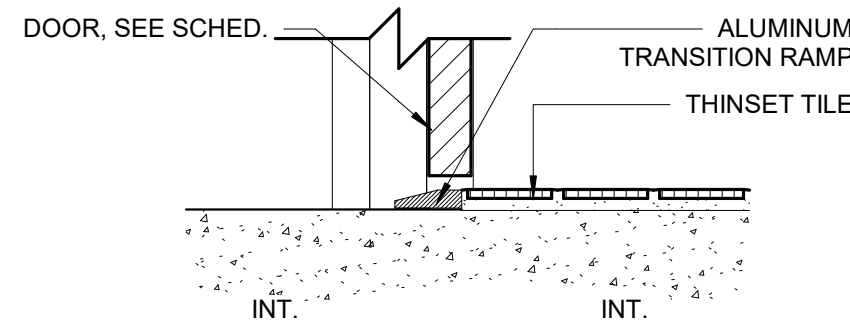
**B3** DOOR HEADER  
STORM SHELTER



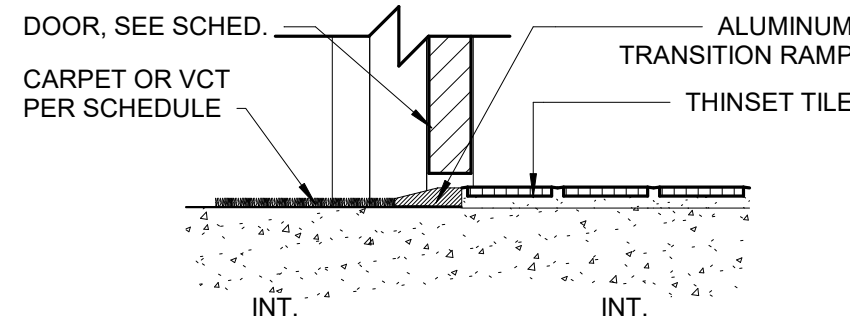
**A3** DOOR JAMB  
STORM SHELTER



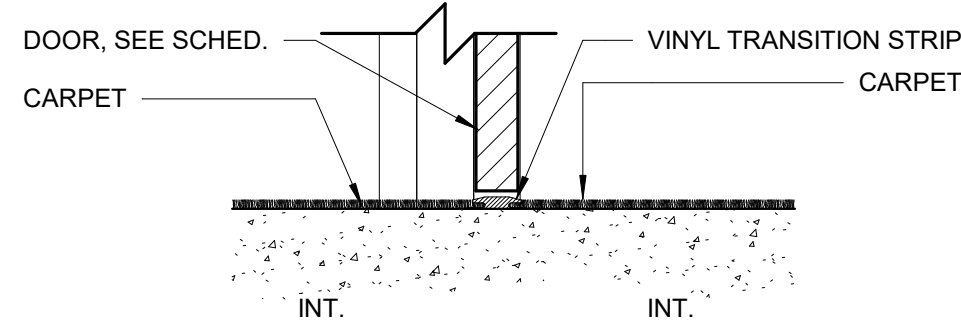
**A5** THRESHOLD -  
INT CONC TO CPT, VCT, RF



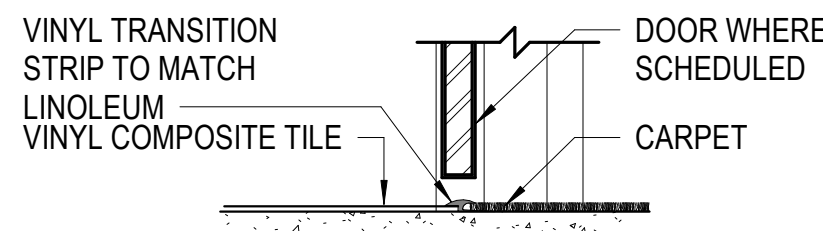
**E7** THRESHOLD - CONC TO TILE



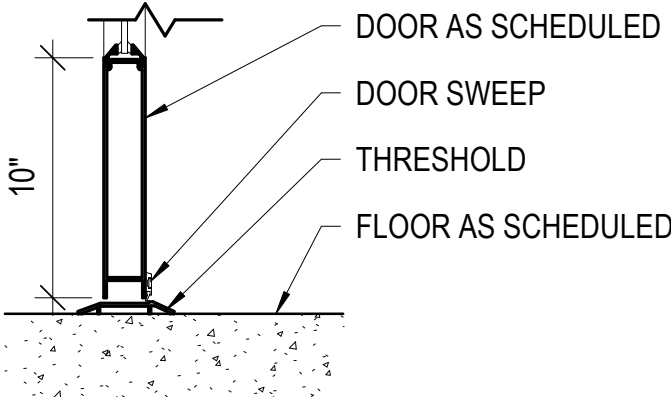
**D7** THRESHOLD - CPT, LVT, VCT  
TO TILE



**C7** THRESHOLD -  
CPT TO CPT



**B7** THRESHOLD - VCT TO CPT



**A7** STOREFRONT - SILL - DOOR



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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
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MO# A-2009021701

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DATE: 11.21.2022  
DRAWN BY: JSP  
CHK'D BY: PJM

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**DOOR DETAILS**

**A-622**

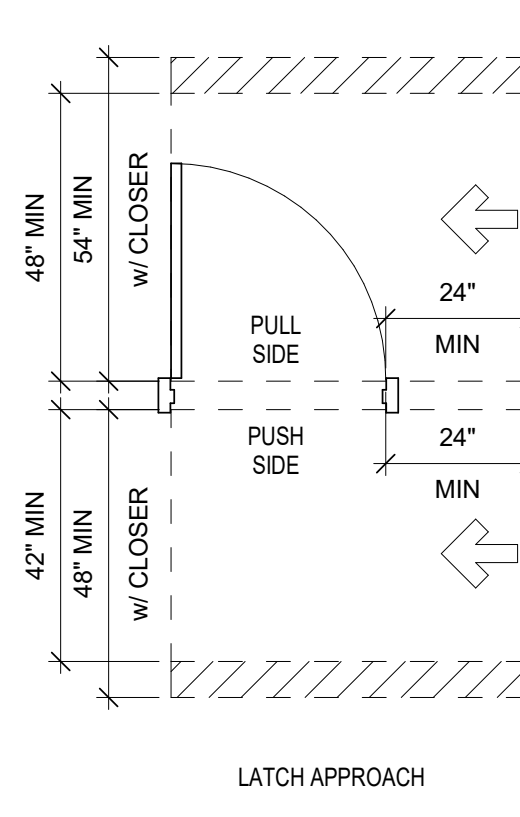
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## SHEET NOTES



## SPECIALTIES / ACCESSORIES SCHEDULE




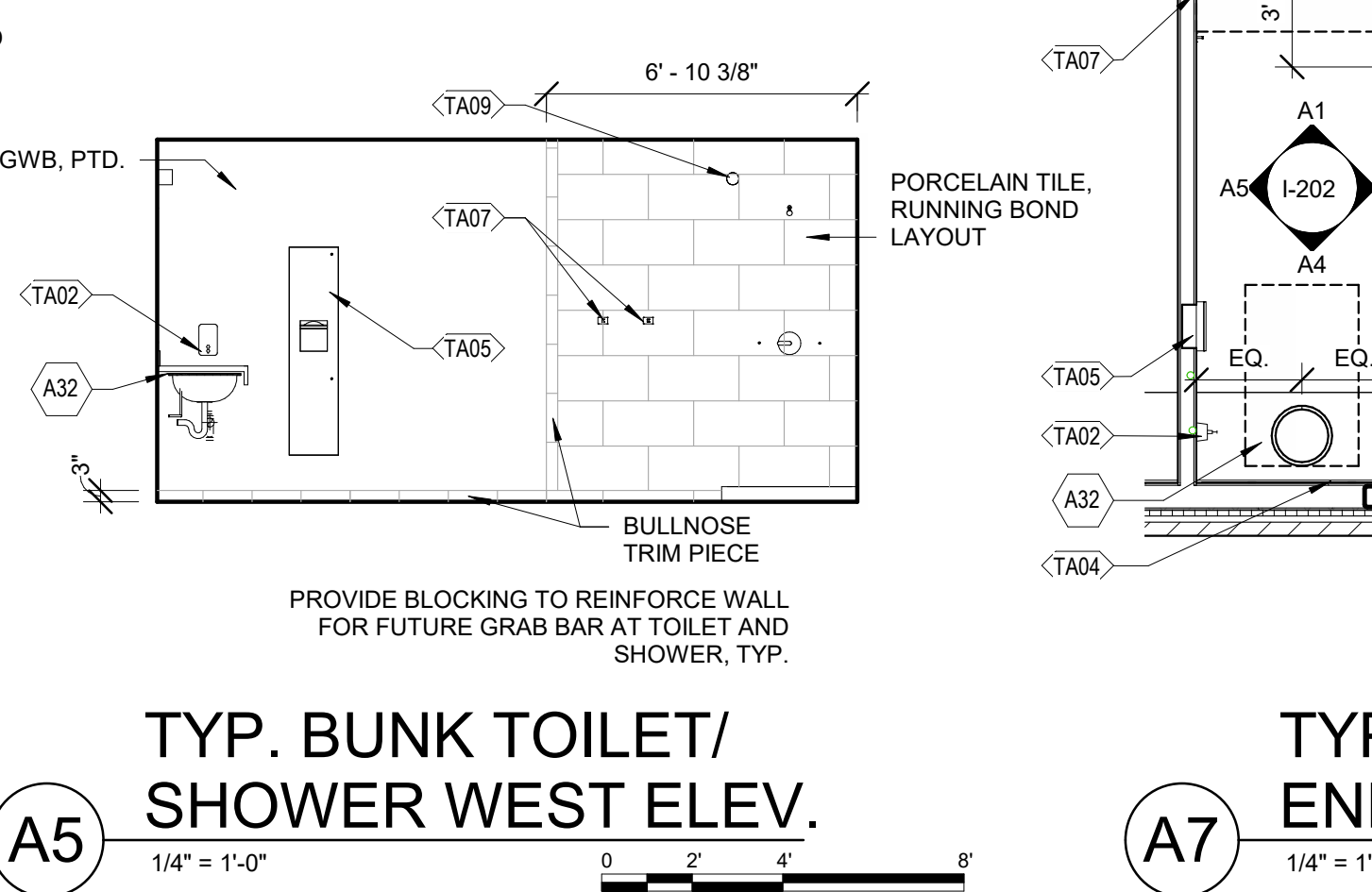
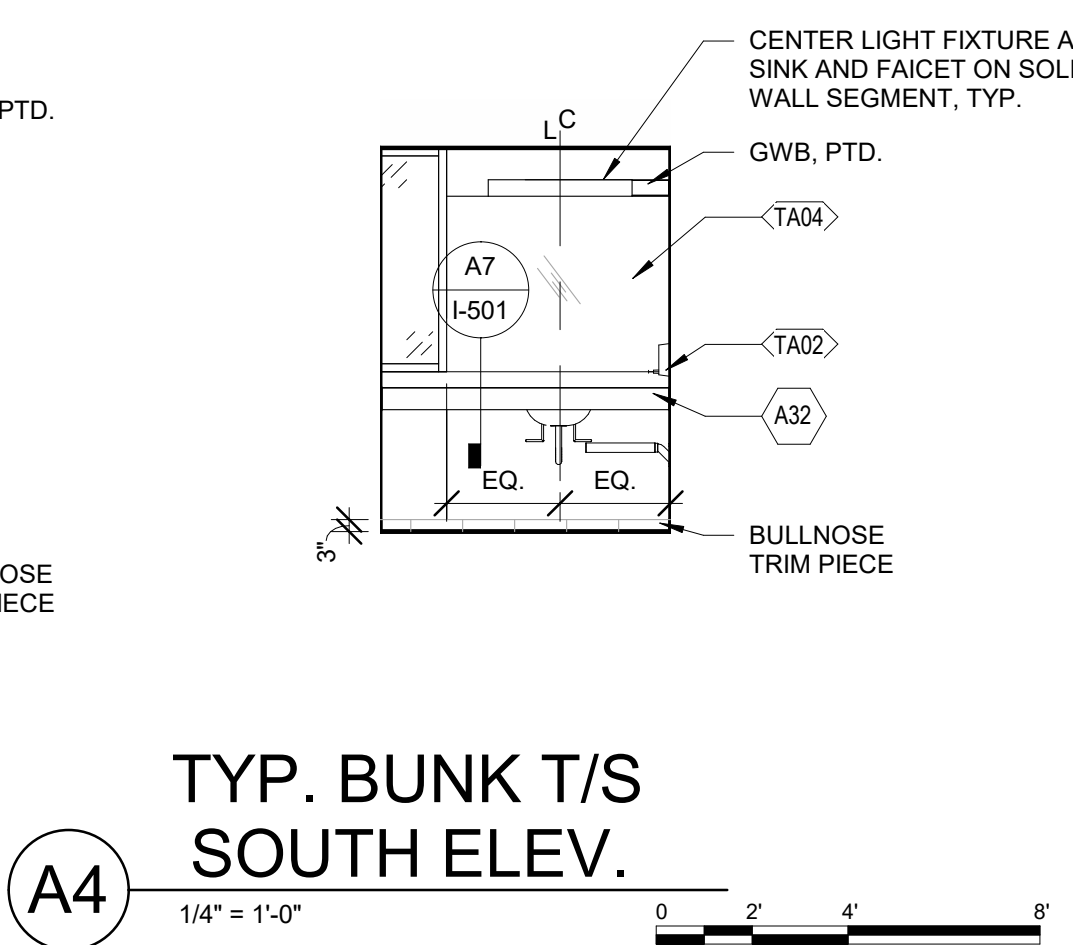
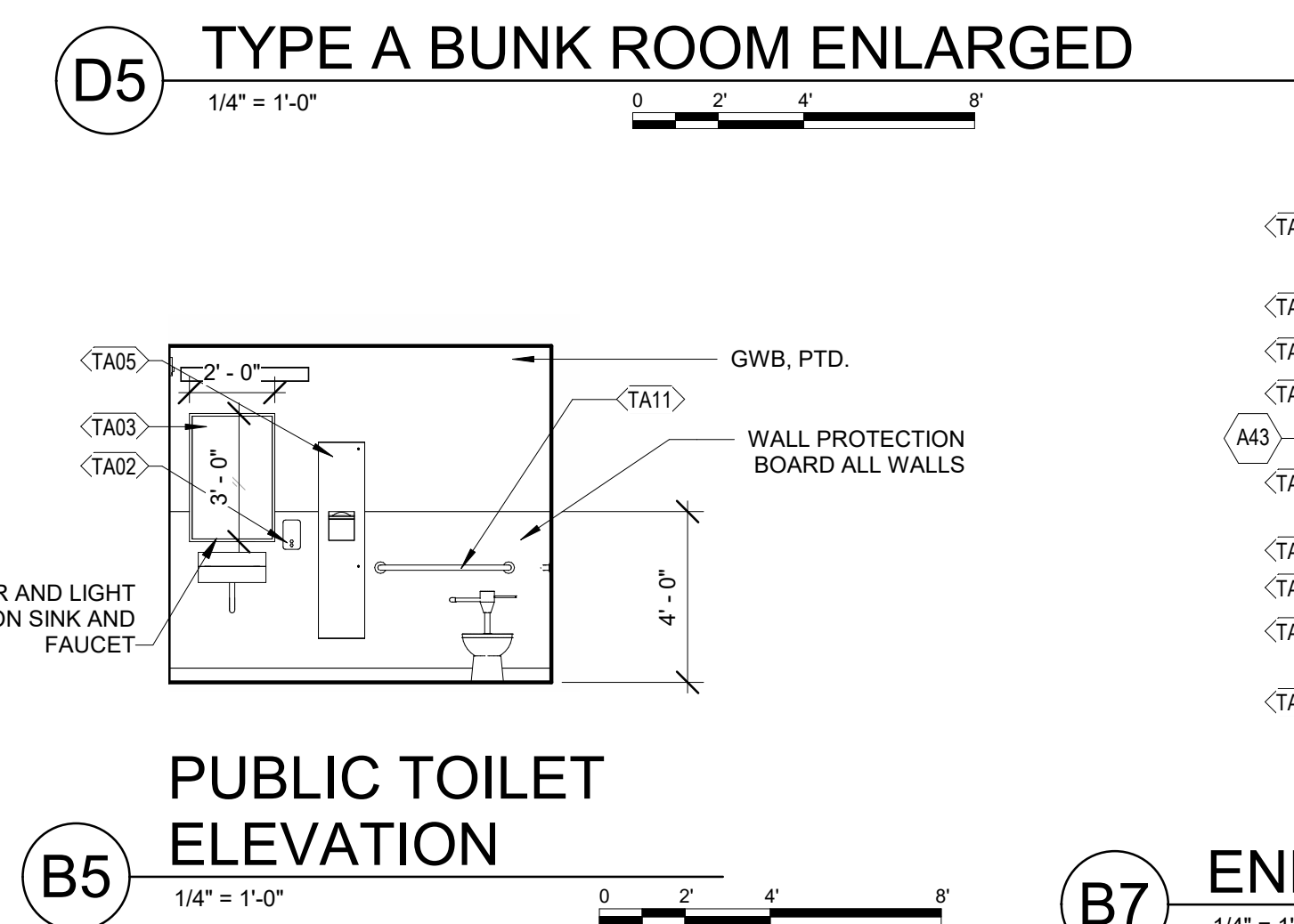
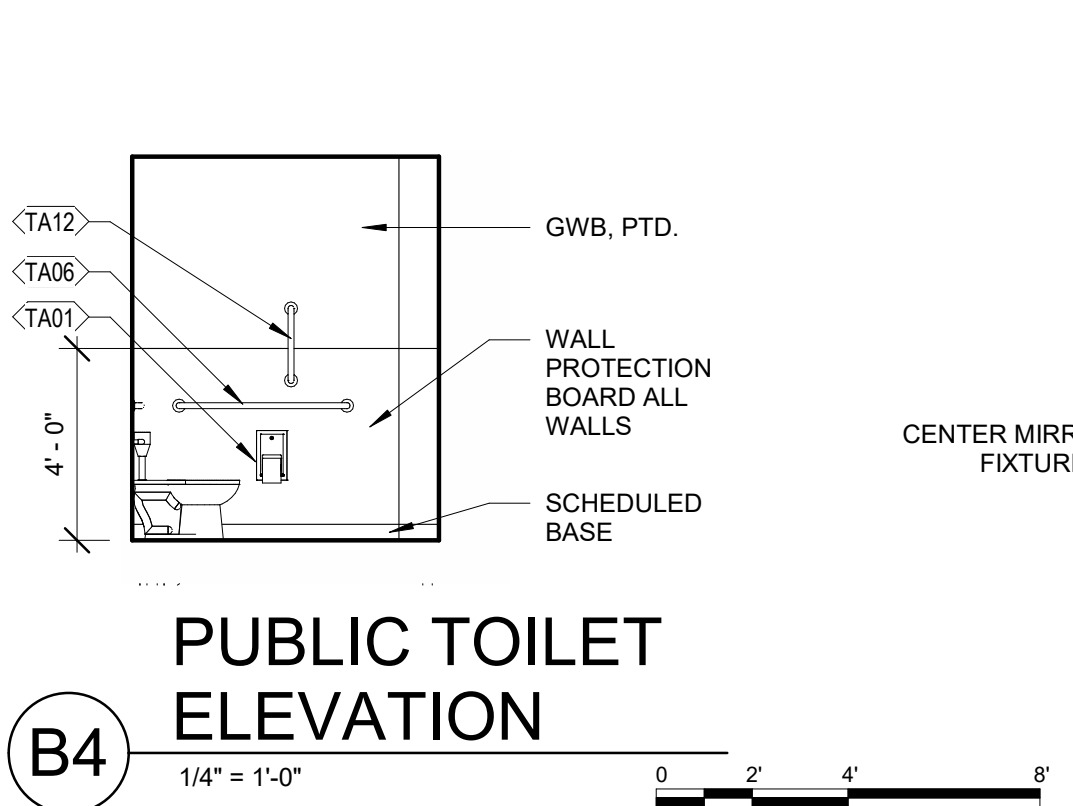
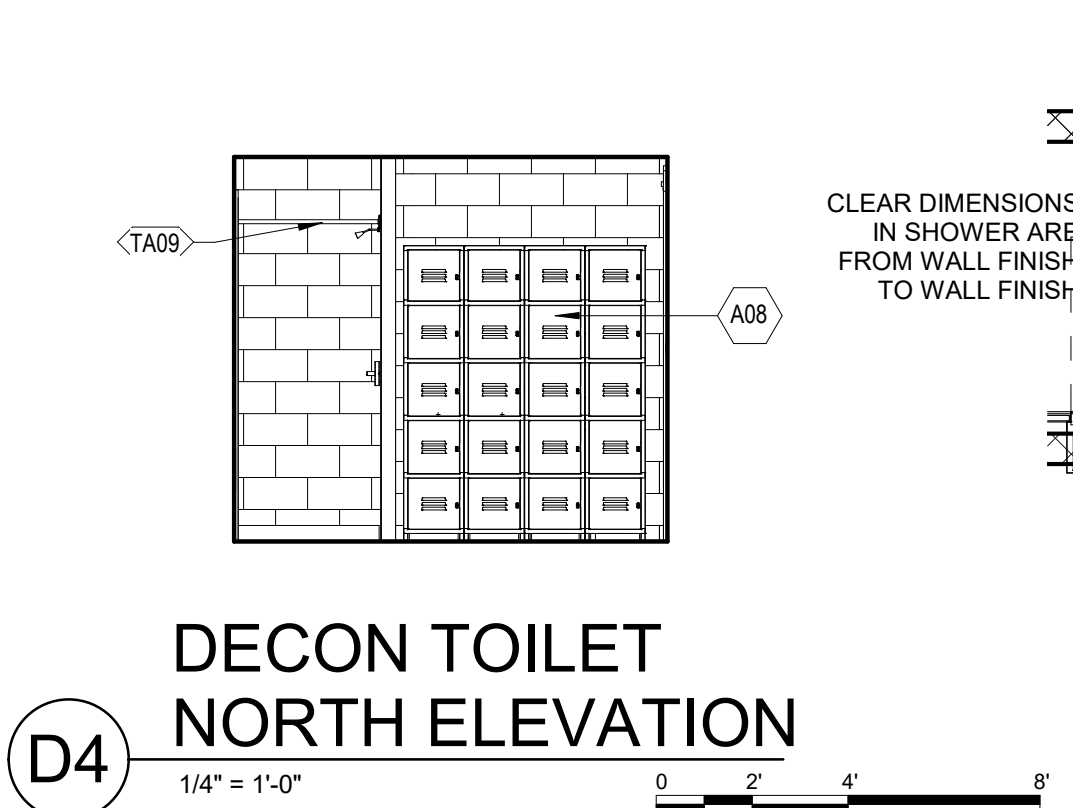
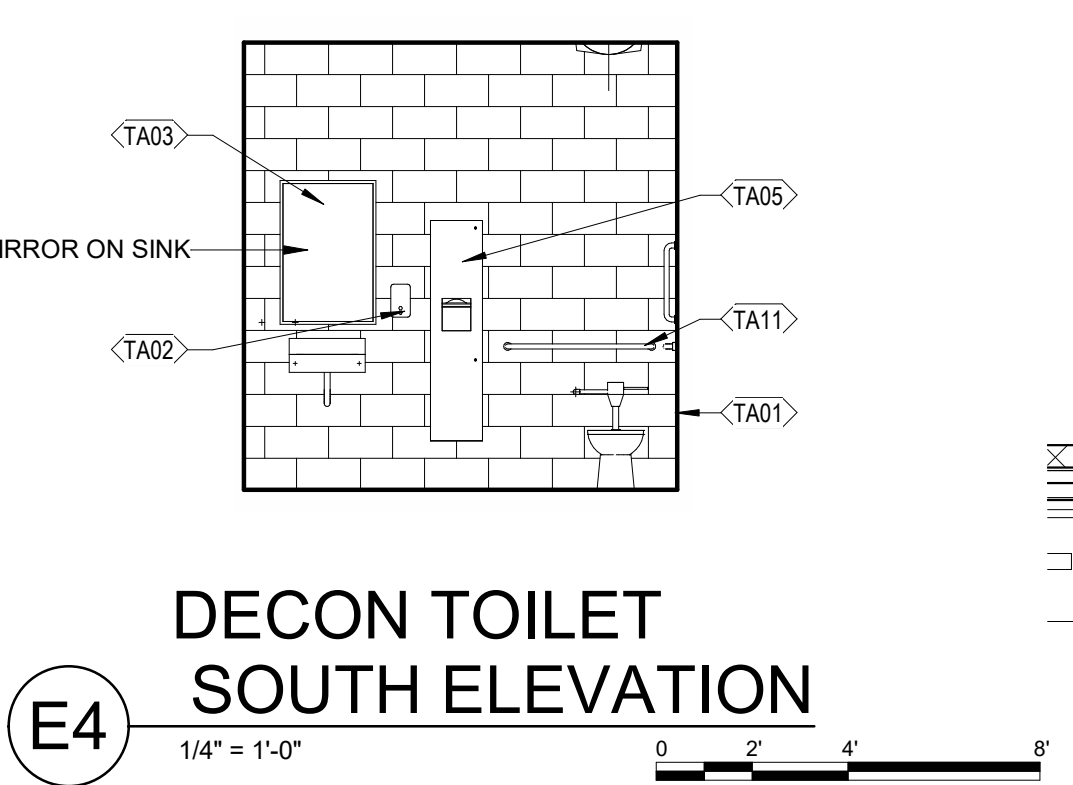
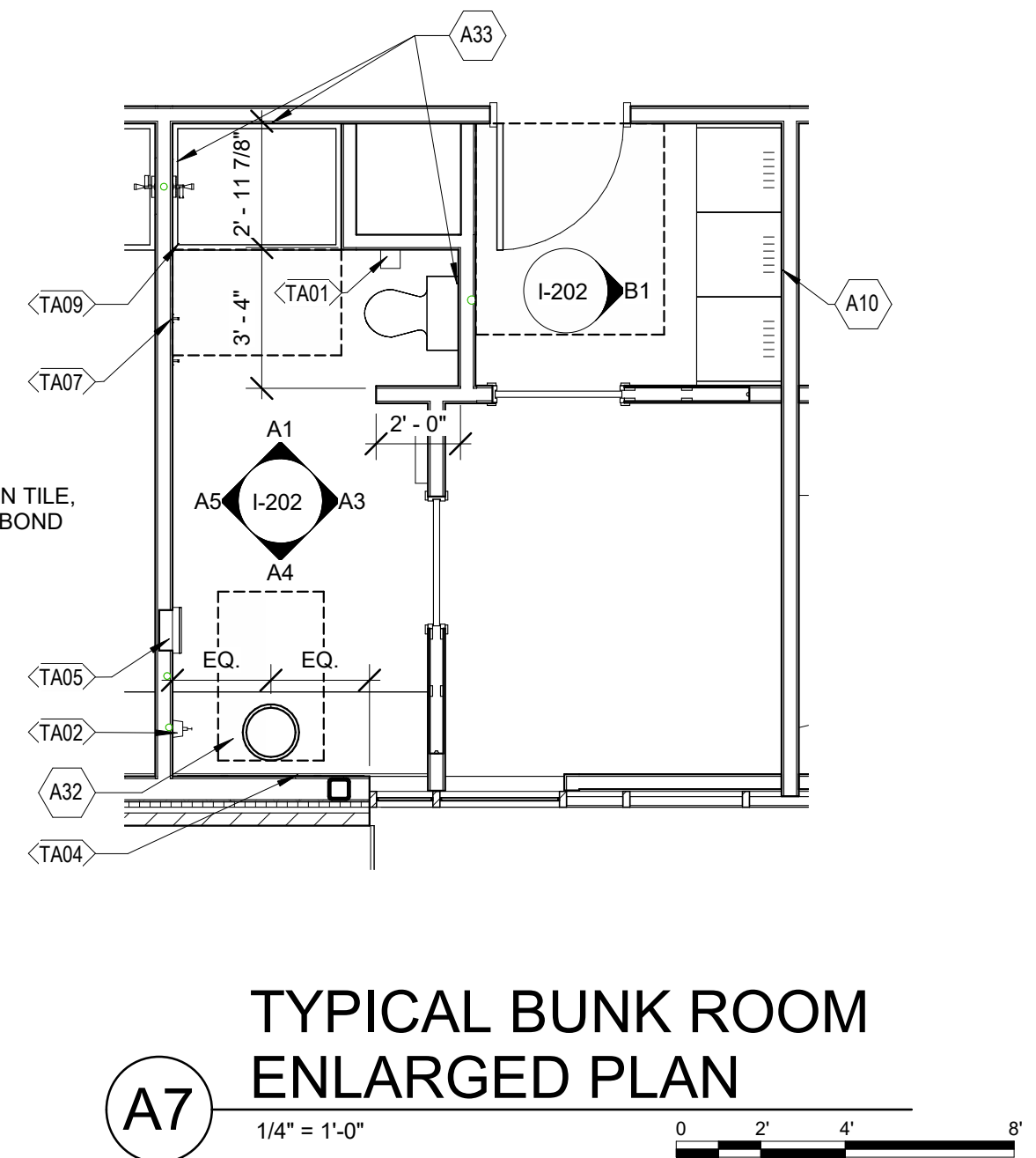








TOILET ACCESSORIES...		
Note Number	Note Description	
TA01	TOILET PAPER DISPENSER - CFCI	
TA02	SOAP DISPENSER - MOTION ACTIVATED AUTOMATIC - CFCI	
TA03	FRAMED MIRROR - CFCI	
TA04	FRAMELESS MIRROR - CFCI	
TA05	PAPER TOWEL DISPENSER - MOTION ACTIVATED AUTOMATIC AND WASTE RECEPTACLE -CFCI	
TA06	GRAB BAR- 42" CFCI	
TA07	TOWEL HOOK-CFCI	
TA08	FOLD DOWN CHANGING STATION-CFCI	
TA09	SHOWER ROD AND CURTAIN-CFCI	
TA11	GRAB BAR- 36" CFCI	
TA12	GRAB BAR- 18" CFCI	





FILE PATH: BM 360://18225R21001\_LeeSummitFireStation\_#4 and #5/LSMO\_FIRE STATION 5.rvt

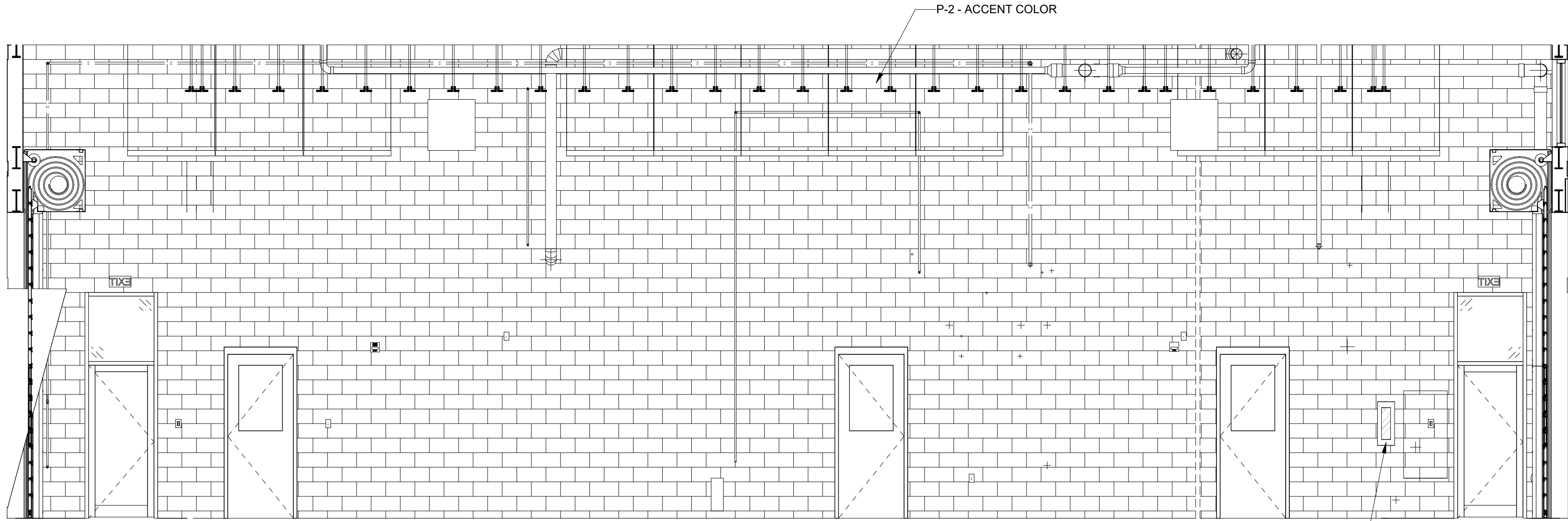
E

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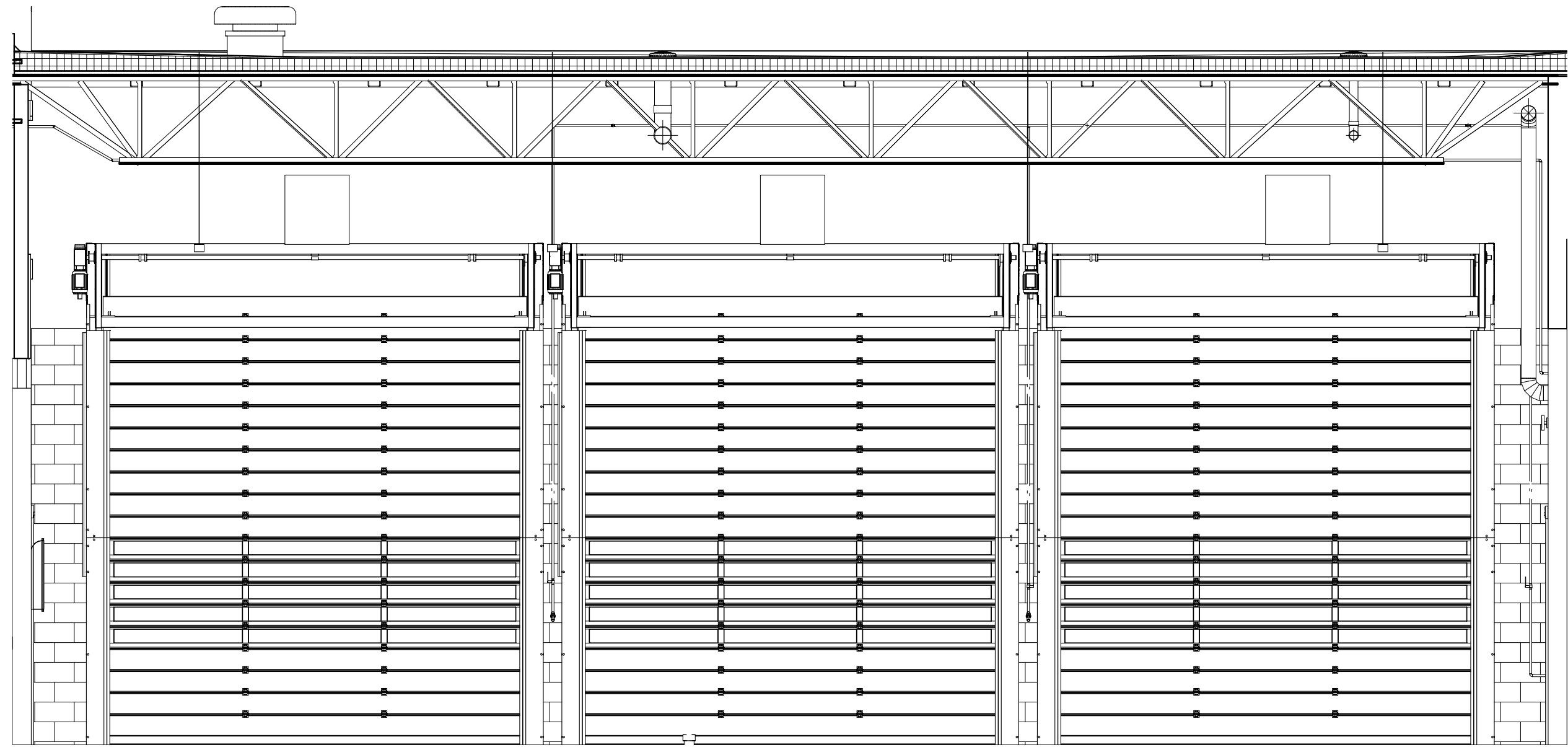


D2 APPARATUS BAY NORTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

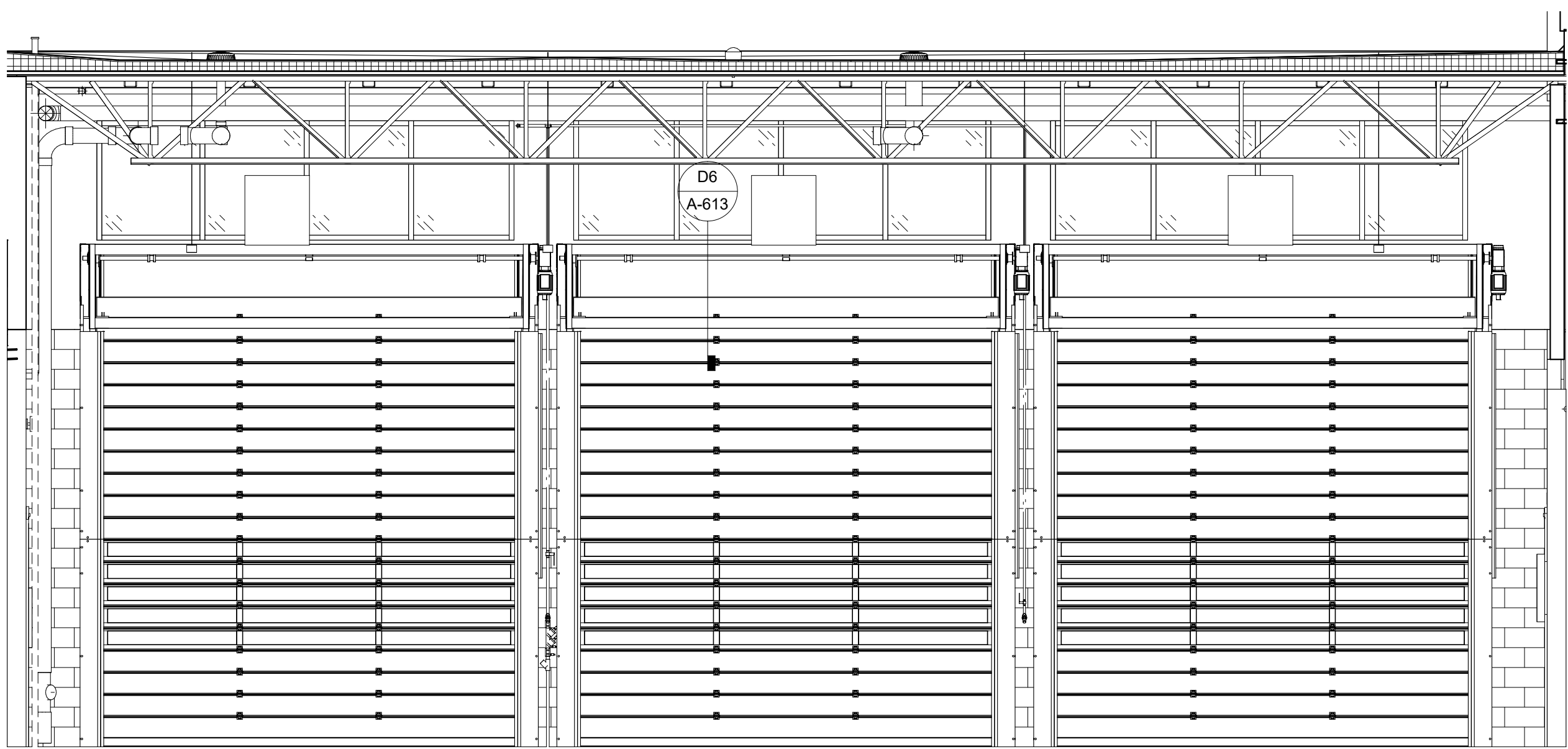
FEC



B1 APPARATUS BAY EAST ELEVATION

1/4" = 1'-0"

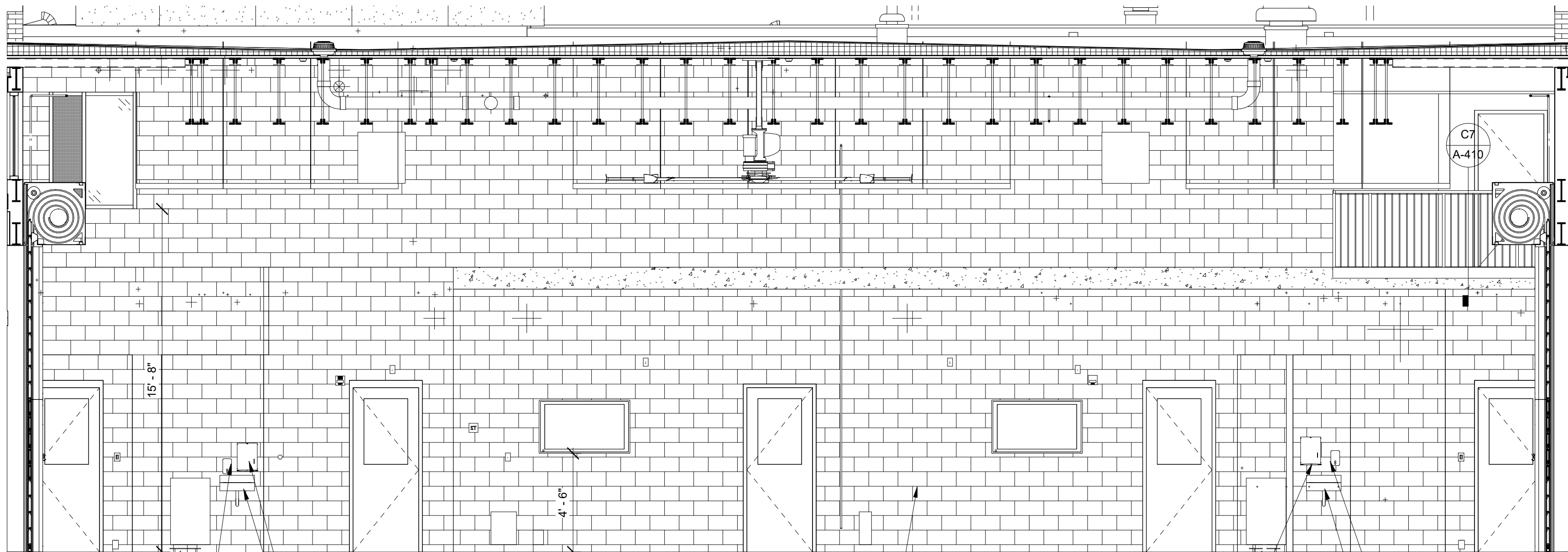
0 2' 4' 8'



B5 APPARATUS BAY WEST ELEVATION

1/4" = 1'-0"

0 2' 4' 8'



A3 APPARATUS BAY SOUTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

P-2 - ACCENT COLOR

BOOT WASH  
PAPER TOWEL DISPENSER

SOAP DISPENSER  
SINK

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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

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REVISIONS:

#	Description	Date
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PAUL J. MICHELL - ARCHITECT  
MO# A-2009021701

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PROJECT NO: 18225R21001

DATE: 11.21.2022

DRAWN BY: JSP

CHK'D BY: PJM

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**APPARATUS BAY ELEVATIONS**

**I-203**

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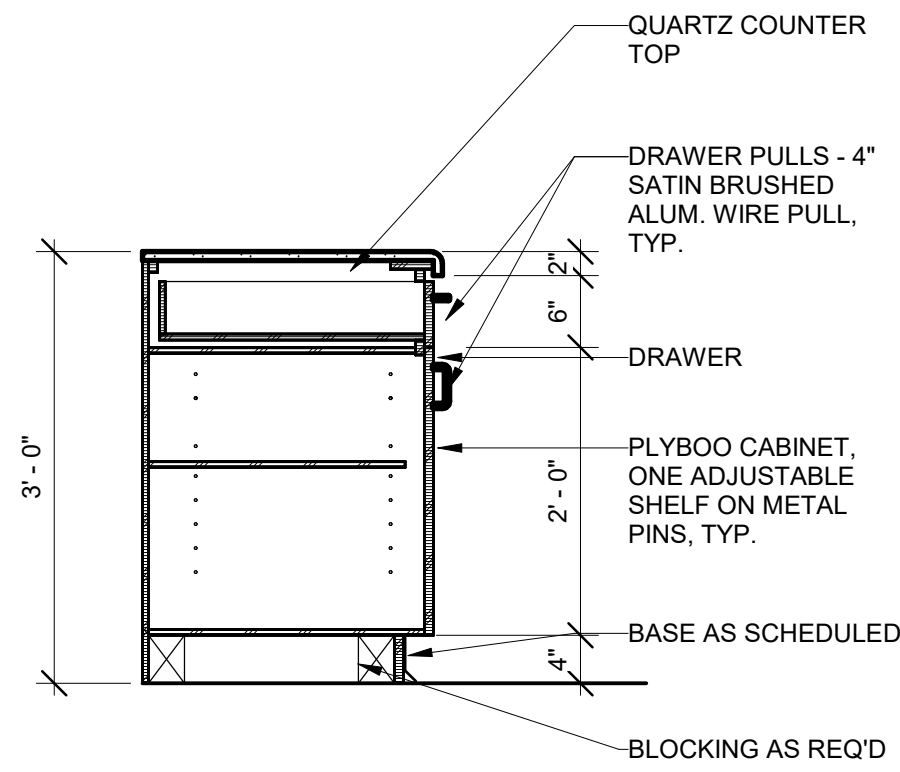
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D

C

B

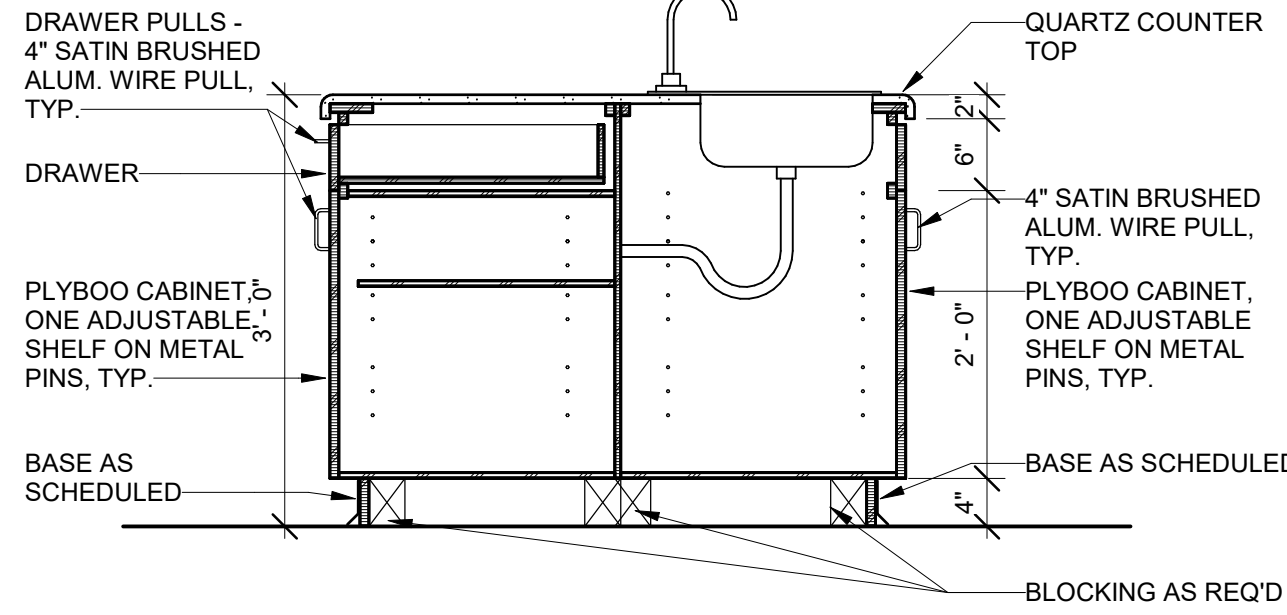
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**CASEWORK SECTION @ ISLAND**

C1

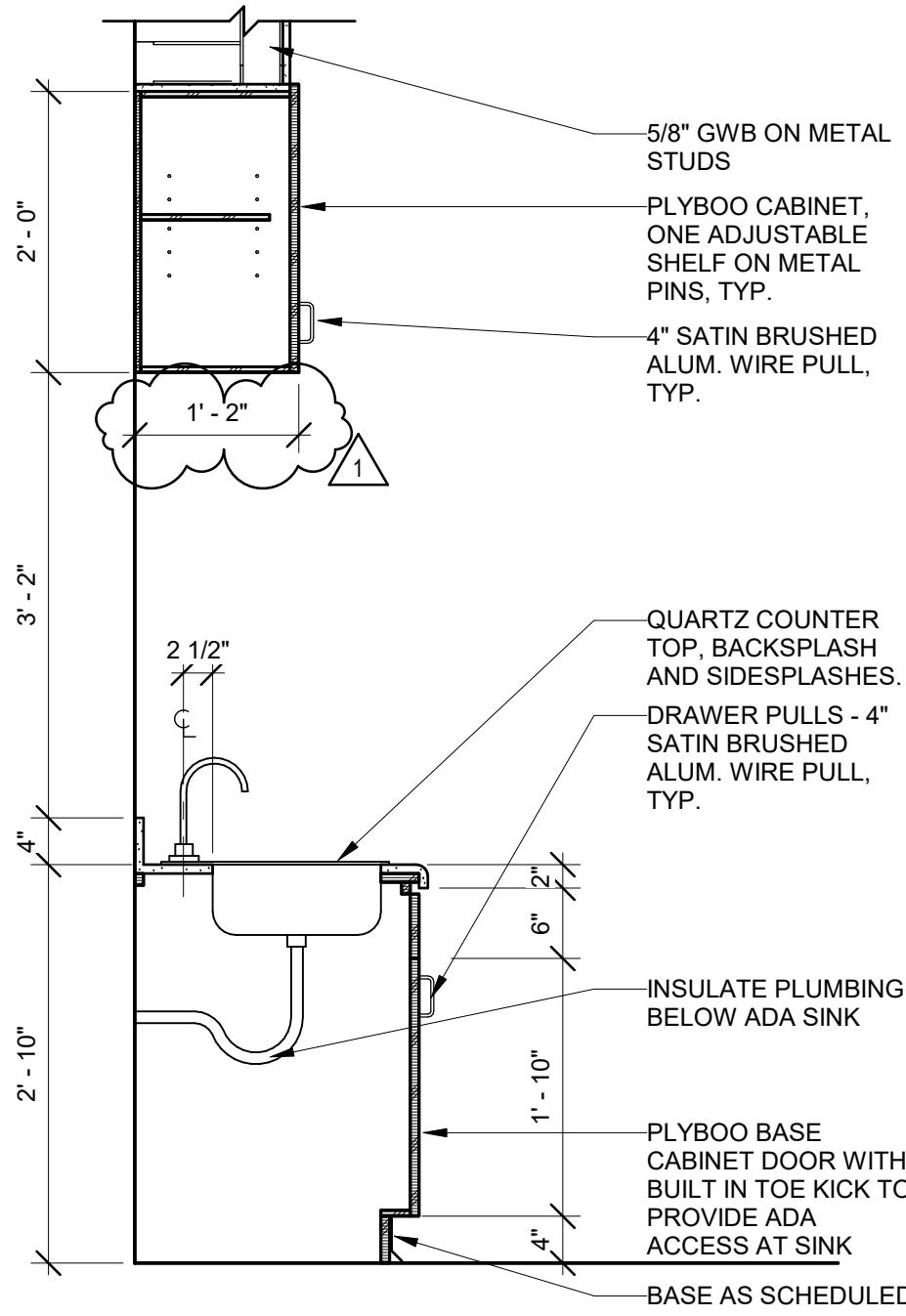
3/4" = 1'-0"



**CASEWORK SECTION @ ISLAND SINK**

C2

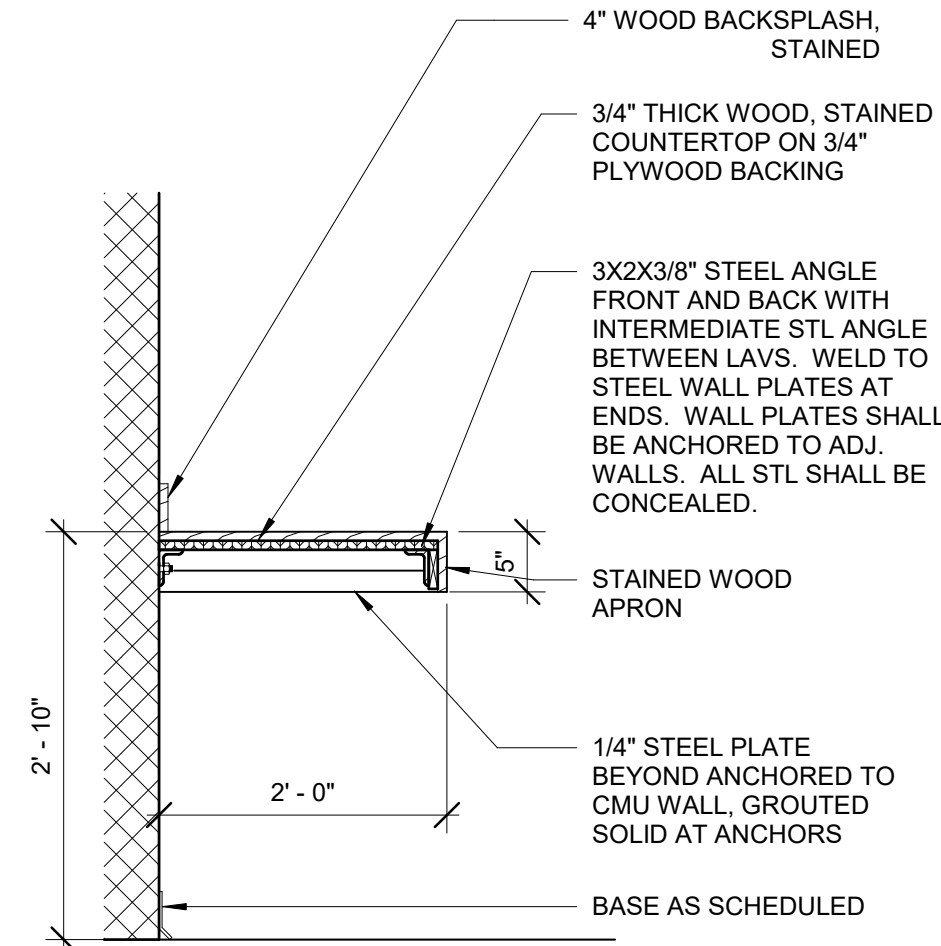
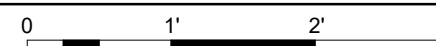
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**CASEWORK SECTION @ ADA SINK**

A2

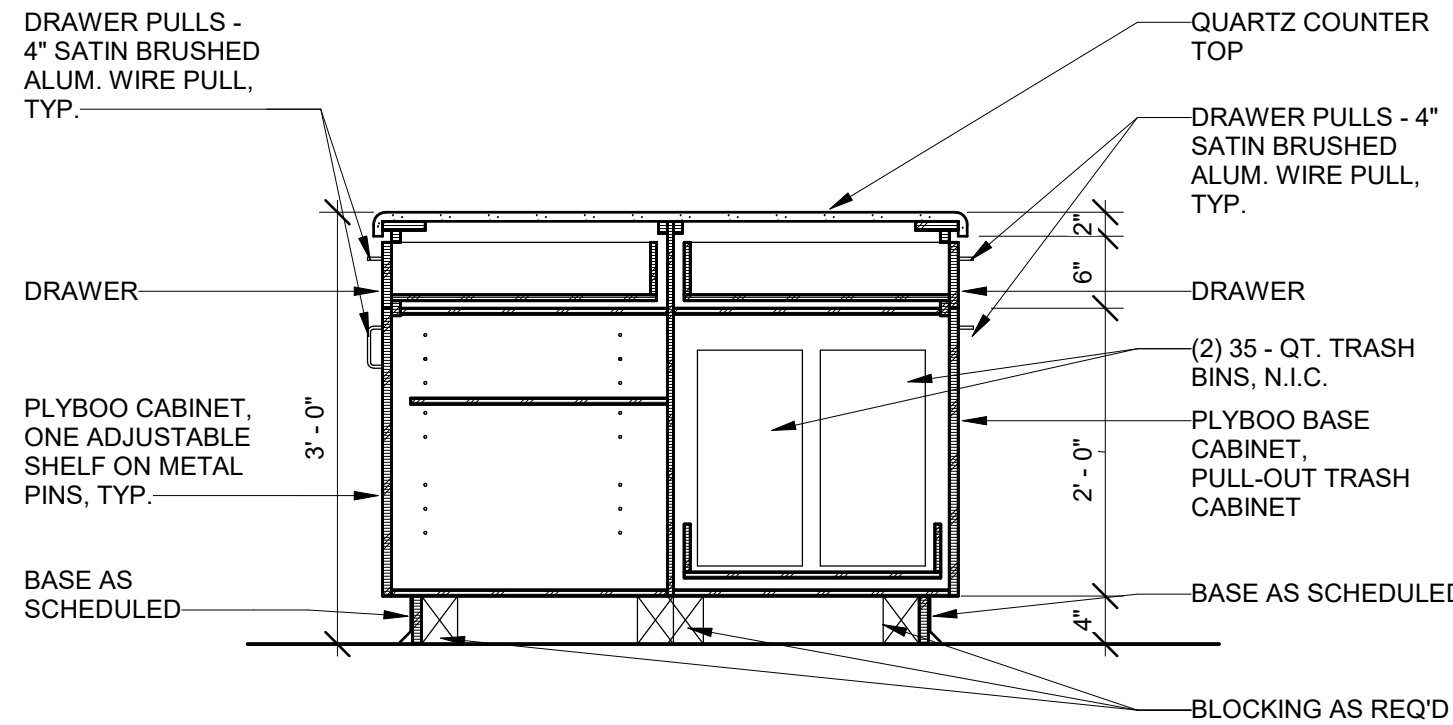
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**WORKBENCH**

D4

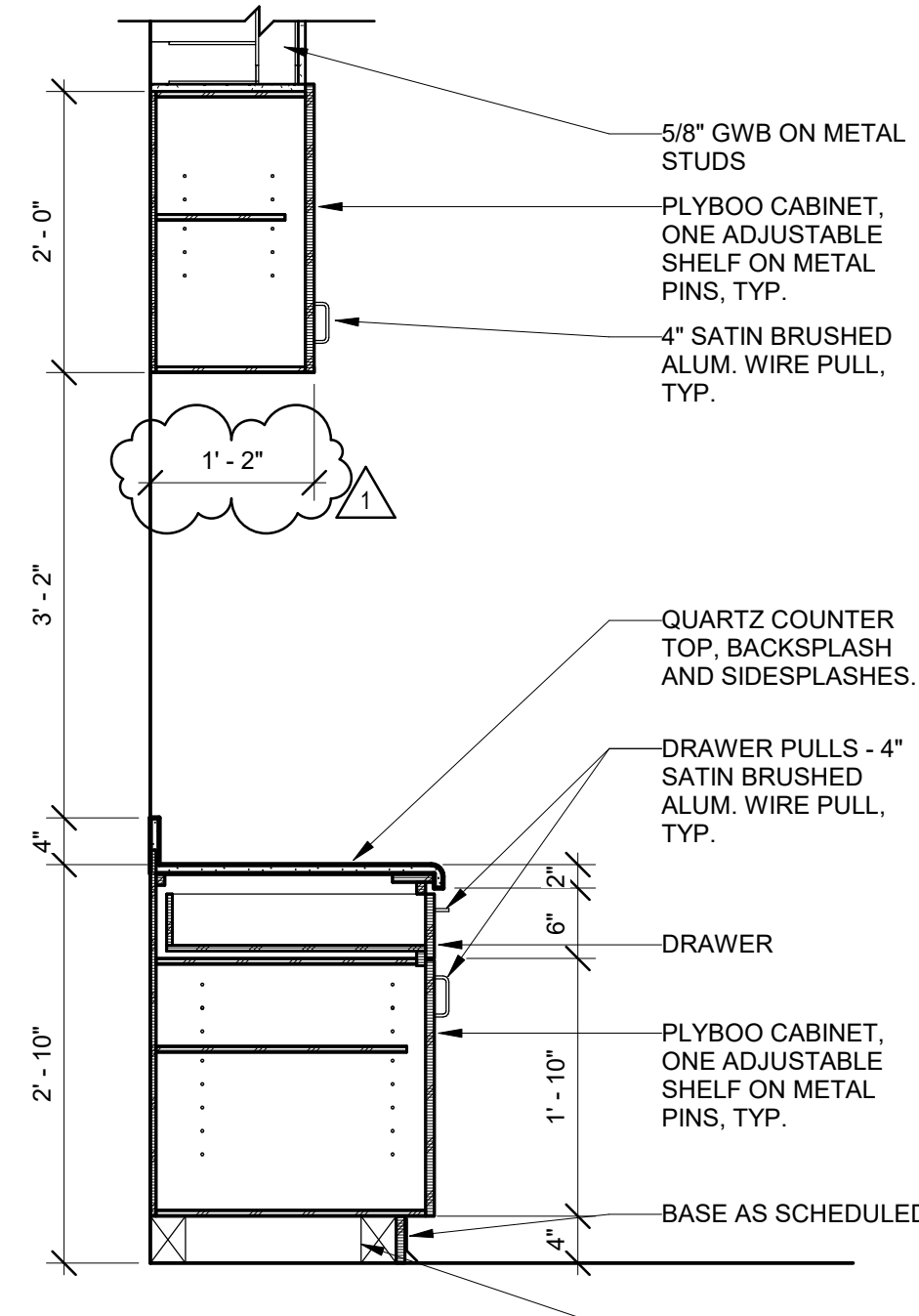
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**CASEWORK SECTION @ RECYCLING**

C4

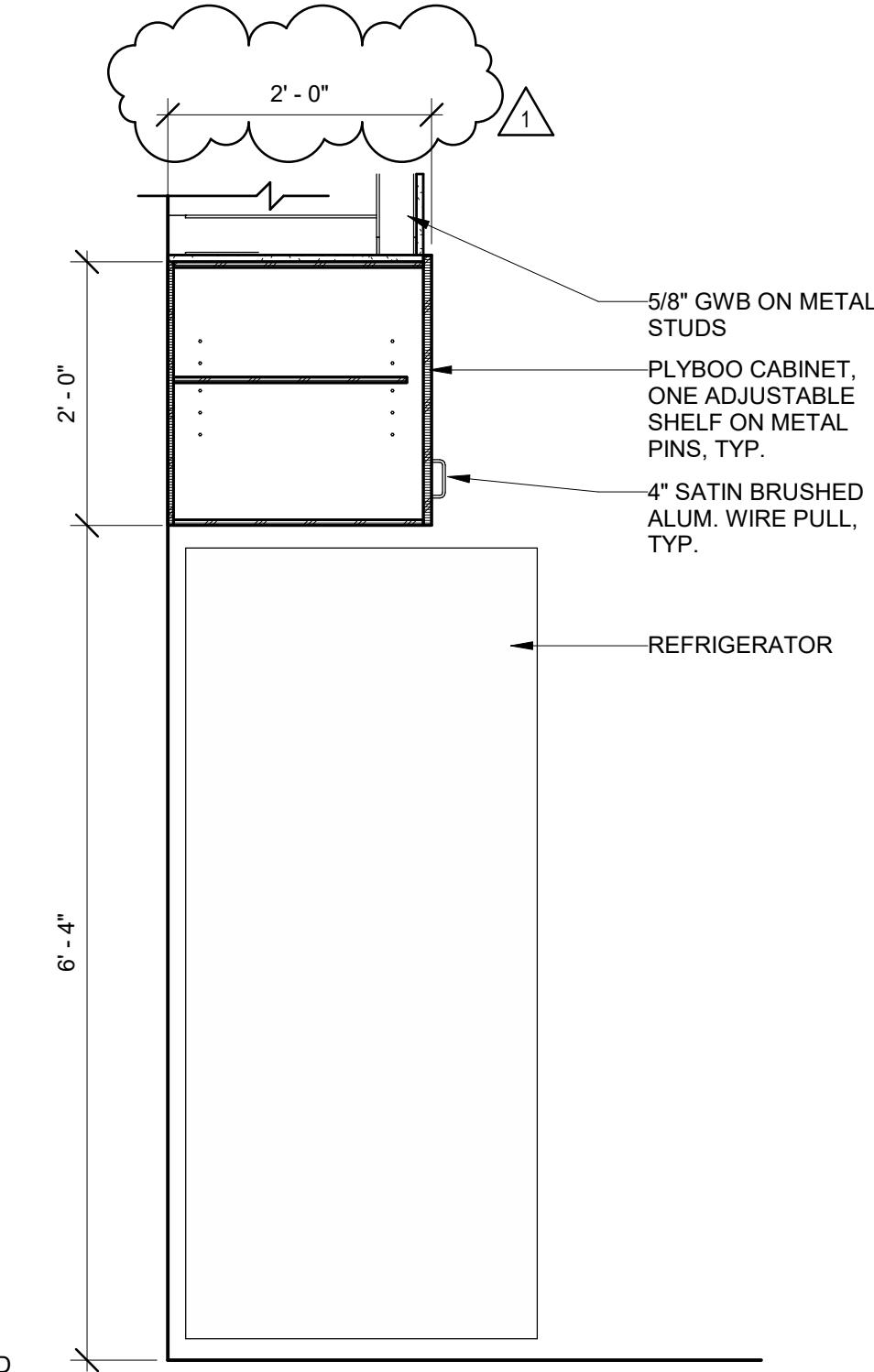
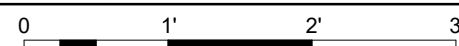
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**CASEWORK SECTION @ KITCHEN ADA, TYP.**

A4

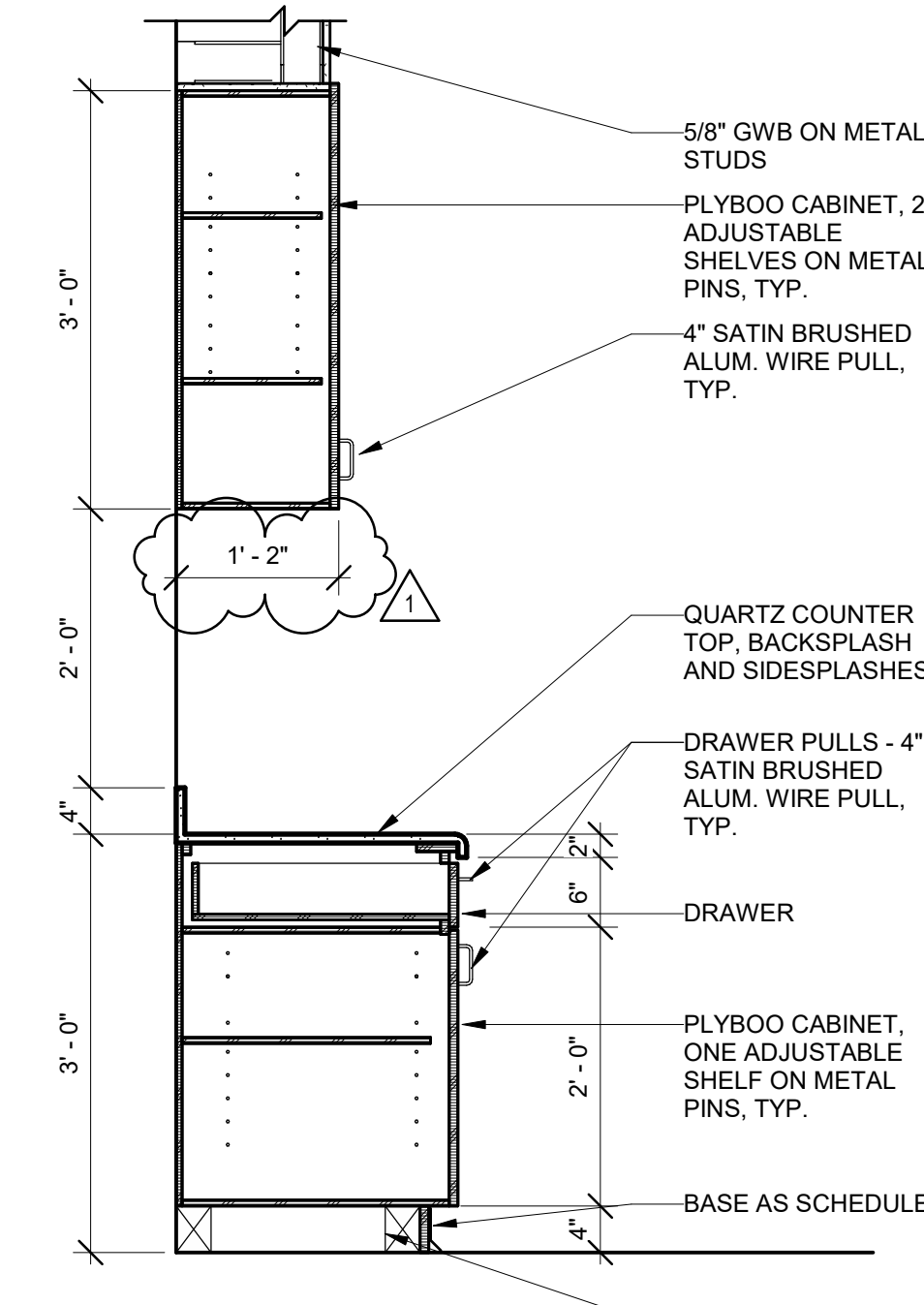
3/4" = 1'-0"



**CASEWORK SECTION @ REFRIGERATOR**

C6

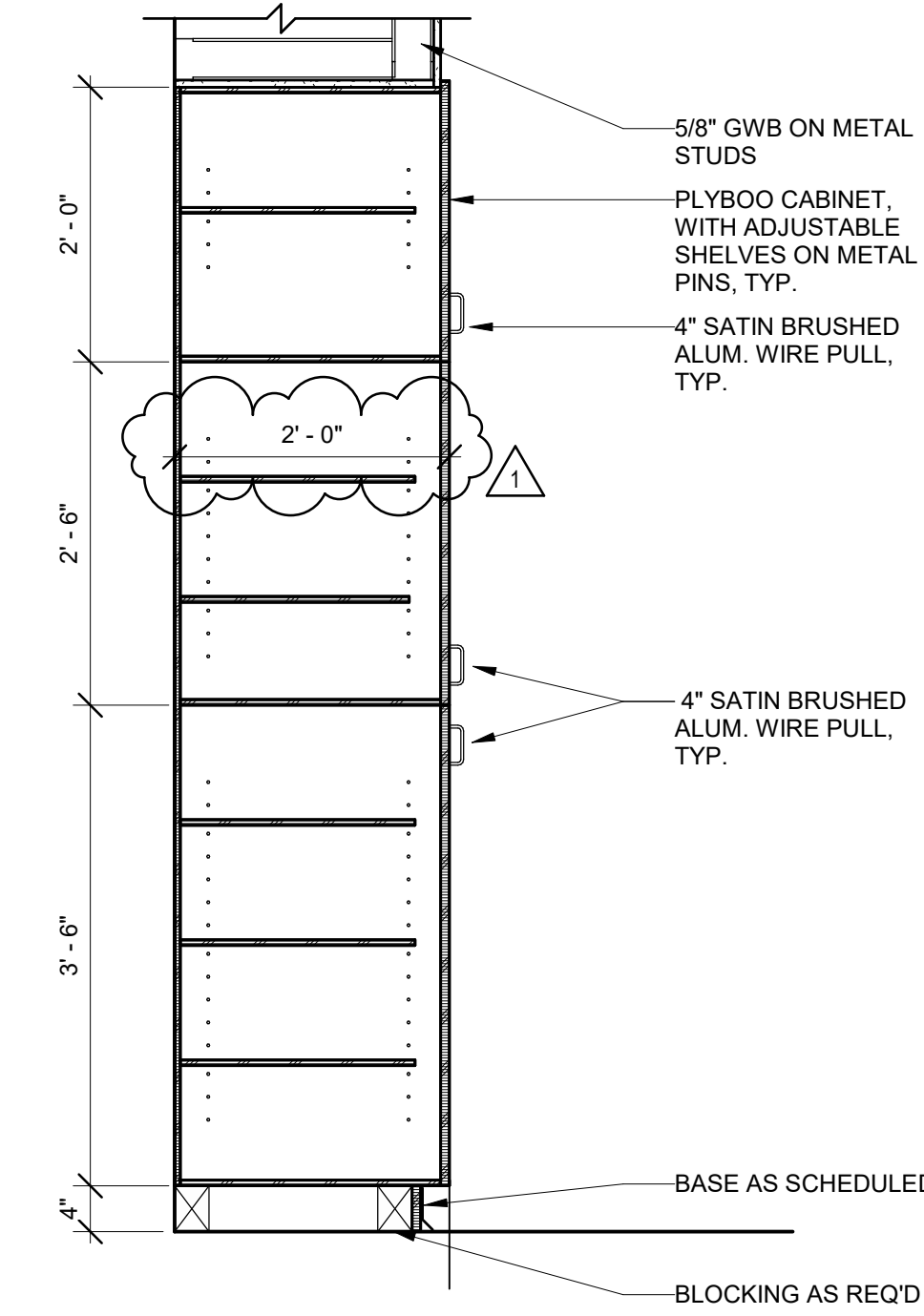
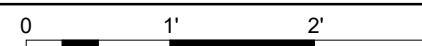
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**CASEWORK SECTION @ KITCHEN, TYP.**

A6

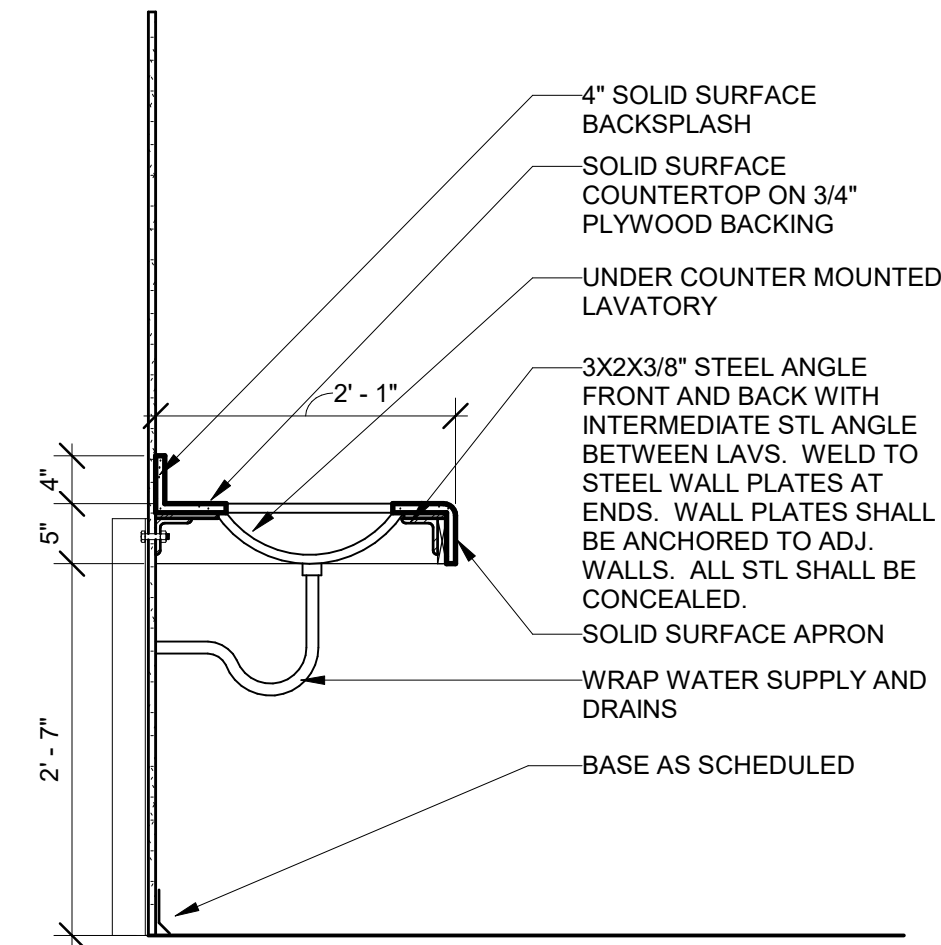
3/4" = 1'-0"



**CASEWORK SECTION @ PANTRY**

C7

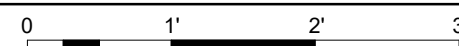
3/4" = 1'-0"



**CASEWORK SECTION @ TOILETS**

A7

3/4" = 1'-0"



#	Description	Date
1	ASB 01	11/21/2022



PAUL J. MICHELL - ARCHITECT  
MO# A-2009021701

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PROJECT NO: 18225R21001  
DATE: 11.21.2022  
DRAWN BY: CLW  
CHK'D BY: BJD

**CASEWORK SECTIONS**

**I-501**



ROOM NO.	NAME	FLOOR	BASE TYPE/ FINISH	NORTH MAT. / FIN.	EAST MAT. / FIN.	SOUTH MAT. / FIN.	WEST MAT. / FIN.	CEILING	IR	WET	REMARKS
100	ENTRY VEST	POLISHED CONC	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD			
101	PUBLIC TOILET	POLISHED CONC	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD			PROTECTION BOARD ON WET WALL
103	ADMIN. TOILET	POLISHED CONC	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			PROTECTION BOARD ON WET WALL
105	TEL. RADIO	VCT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	EXP/PTD			
106	CONF. RM.	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
107	ELEV										
108	CAPTAIN'S OFFICE	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
109	RAMP	SC	RB	CMU/PTD	CMU/PTD	GWB/PTD	CMU/PTD	EXP/PTD			
110	EMS STOR.	SC	RB	CMU/PTD	CMU/PTD	GWB/PTD	CMU/PTD	EXP/PTD			
111	PPE / LOCKERS	SC	RB	CMU/PTD	CMU/PTD	CMU/PTD	CMU/PTD	EXP/PTD			
112	DECON	SC	RB	CMU/ EPOXY PTD	CMU/ EPOXY PTD	CMU/ EPOXY PTD	CMU/ EPOXY PTD	EXP/PTD			
113	DECON TOIL.	SC	RB	CMU/ EPOXY PTD	CMU/ EPOXY PTD	CMU/ EPOXY PTD	CMU/ EPOXY PTD	EXP/PTD			
114	RAMP	SC	RB	CMU/PTD	GWB/PTD	GWB/PTD	CMU/PTD	EXP/PTD			
115	JAN.										
116	KITCHEN	POLISHED CONC	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT DECORATIVE			
117	DINING	POLISHED CONC	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT DECORATIVE			
118	DAY ROOM	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT DECORATIVE			
119	APPARATUS BAY	SC	-	CMU/PTD	CMU/PTD	CMU/PTD	CMU/PTD	EXP/PTD			
120	UTILITY	SC	-	CMU/PTD	CMU/PTD	CMU/PTD	CMU/PTD	EXP/PTD			
121	SHOP	SC	-	CMU/PTD	CMU/PTD	CMU/PTD	CMU/PTD	EXP/PTD			
122	EXERCISE / WELLNESS	RAF	RB	CMU/PTD	CMU/PTD	CMU/PTD	CMU/PTD	ACT			
200	STAIR	RT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
201	CORRIDOR	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			CORRIDOR WALLS TO RECEIVE CORNER GUARDS
202	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
202A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
202B	TOILET	PT	PT	PT	GWB/PTD/PT	GWB/PTD	GWB/PTD/PT	GWB/PTD			
203	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
203A	CAPTAIN'S BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
203B	TOILET	PT	PT	GWB/PTD	GWB/PTD/PT	PT	GWB/PTD	GWB/PTD			
204	MEZZANINE										
205	LAUNDRY/JAN.	PT	PT	GWB/PTD	GWB/PTD	CMU/PTD	CMU/GWB/PTD	ACT			
206	MECH.	SC	-	CMU/PTD	GWB/PTD	CMU/PTD	GWB/PTD	-			
207	GENERAL STORAGE	SC	RB	GWB/PTD	GWB/PTD	CMU/PTD	GWB/PTD				
208	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
208A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
208B	TOILET	PT	PT	GWB/PTD	GWB/PTD/PT	PT	GWB/PTD/PT	GWB/PTD			
209	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
209A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
209B	TOILET	PT	PT	PT	GWB/PTD/PT	GWB/PTD	GWB/PTD/PT	GWB/PTD			
210	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
210A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
210B	TOILET	PT	PT	PT	GWB/PTD/PT	GWB/PTD	GWB/PTD/PT	GWB/PTD			
211	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
211A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
211B	TOILET	PT	PT	PT	GWB/PTD/PT	GWB/PTD	GWB/PTD/PT	GWB/PTD			
212	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
212A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
212B	TOILET	PT	PT	PT	GWB/PTD/PT	GWB/PTD	GWB/PTD/PT	GWB/PTD			
213	LOCKERS	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
213A	BUNK	CPT	RB	GWB/PTD	GWB/PTD	GWB/PTD	GWB/PTD	ACT			
213B	TOILET	PT	PT	PT	GWB/PTD/PT	GWB/PTD	GWB/PTD/PT	GWB/PTD			

## ROOM FINISH CODE

GENERAL NOTES:

1. ALL FLOOR FINISHES TO EXTEND UNDER MOVEABLE FURNITURE
2. ALL EXPOSED STRUCTURE IS TO BE PAINTED U.N.O
3. PROVIDE WINDOW TREATMENTS AT ALL EXTERIOR WINDOWS AND/OR STOREFRONT GLAZING SYSTEM SECTIONS
4. ALL WALL/COLOR/EXPOSED STRUCTURE PAINT COLORS TO BE P-1 U.N.O. REFER TO FINISH PLANS FOR EXTENT OF ACCENT WALL COLORS
5. ALL TILED WALLS TO USE GLASS MAT BOARD
6. ALL ROOMS MARKED "WET" ARE TO RECEIVE WATER RESISTANT GWB
7. ALL ROOMS MARKED "IR" ARE TO RECEIVE 5/8" IMPACT RESISTANT TYPE "X" GWB

**FINISH SCHEDULE LEGEND:**

ACT	ACOUSTICAL CEILING TILE
CPT	CARPET TILE
CMU	CONCRETE MASONRY UNIT
EXP	EXPOSED STRUCTURE
GW/B	GYPSUM WALL BOARD
HPC	HIGH PERFORMANCE COATING
IR	IMPACT RESISTANT
PC	POLISHED CONCRETE
PT	PORCELAIN TILE
PTD	PAINTED
RAF	RESILIENT ATHLETIC FLOOR
RF	RUBBER FLOORING
RT	RUBBER TREAD
RB	RUBBER BASE
SC	SEALED CONCRETE



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KANSAS CITY, MO 64108  
(816) 663-8700

**FIRE STATION #5**  
CITY OF LEE'S SUMMIT  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64082

---

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REVISIONS:

#	Description	Date
6	ASI 06	02/22/2023



CHAD R. BARD - ARCHITECT  
MO# A-2018024473

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PROJECT NO: 18225R210

DATE: 02.22.20

DRAWN BY: KSCHK'D BY: \_\_\_\_\_ P. \_\_\_\_\_

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## FINISH SCHEDULE

# I-601



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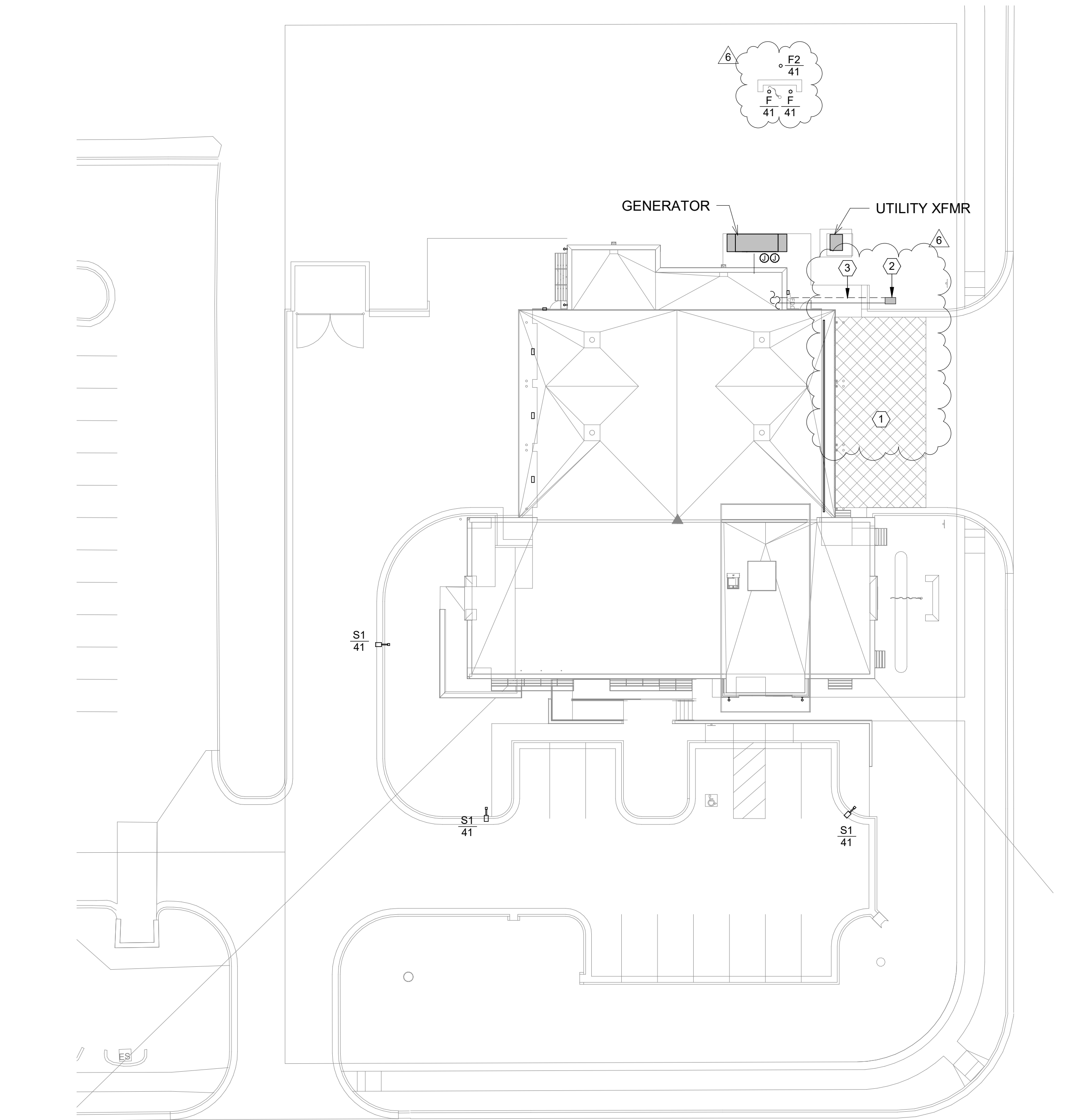
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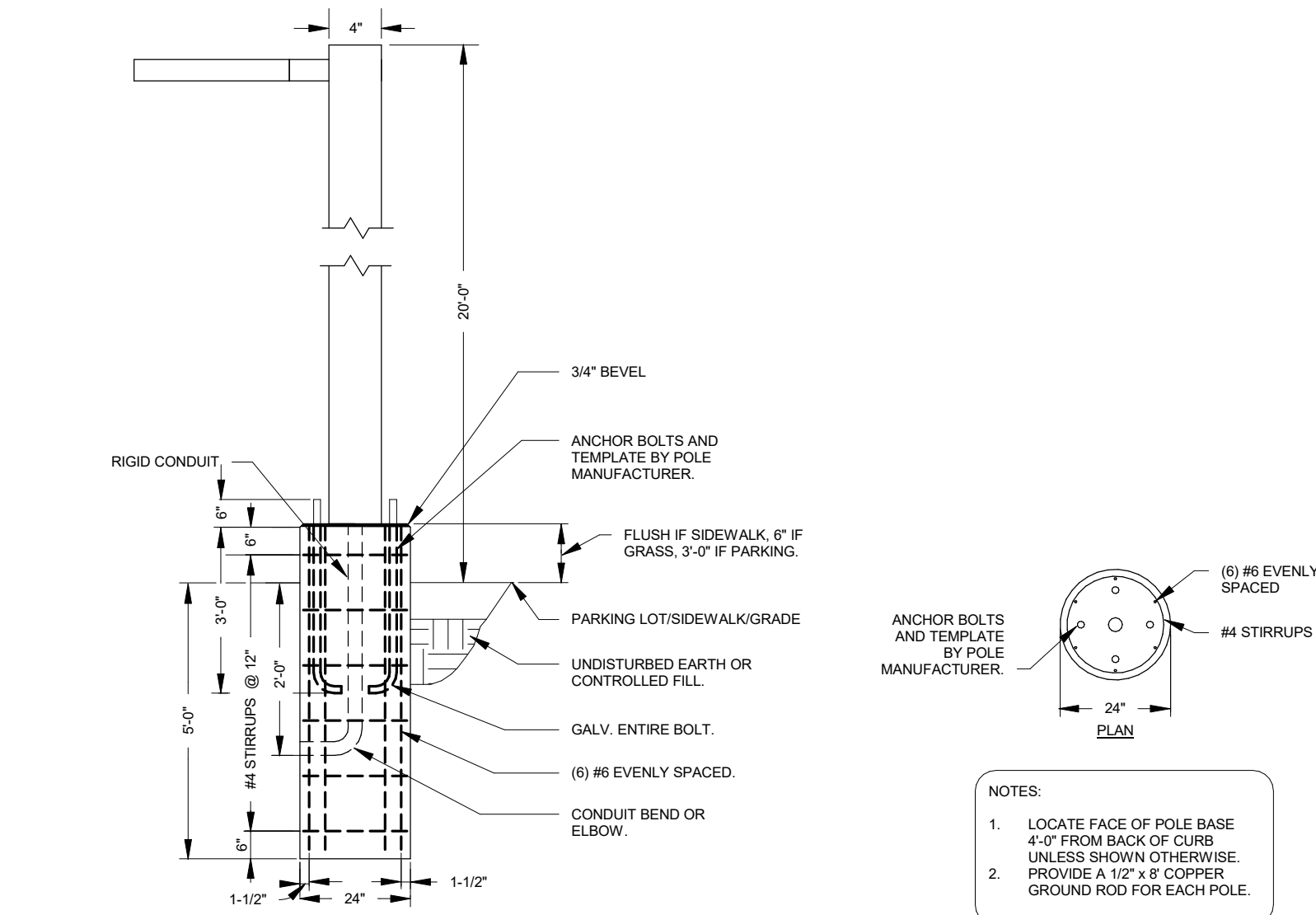
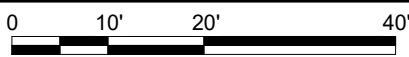
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A



A1 MPE SITE PLAN

1" = 20'-0"



A6 POLE BASE DETAIL

NOT TO SCALE

PLAN NOTES:

- 1 PROVIDE 1575 SQ. FT. OF CONCRETE WITH SNOW MELT. TUBING SHALL BE INSTALLED 6" BELOW FINISHED FLOOR. COORDINATE SLAB INSULATION WITH ARCHITECT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFO.
- 2 PROVIDE NDS, OR EQUAL, MODEL 313BCBW MIN. 14X19 VALVE BOX FOR SNOW MELT MANIFOLD.
- 3 SNOW MELT PIPING TO MANIFOLD BOX. REFER TO HVAC PIPING PLAN FOR CONTINUATION.

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HENDERSON ENGINEERS  
MISSOURI COA #000556  
1801 MAIN STREET, SUITE 300  
KANSAS CITY, MO 64108  
(816) 663-8700

**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64064

100% CONSTRUCTION DOCUMENT DRAWINGS

#	Description	Date
6	A6: 06	02/22/2023



NEIL BARTLEY - ENGINEER  
MO# PE-2007023868

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DATE:	10.20.2022
DRAWN BY:	JL
CHK'D BY:	NB

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**MPE SITE PLAN**

**ME001**

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FIXTURE TAG	MANUFACTURER	MODEL	LIGHT SOURCE			DIMMING TYPE	MOUNTING TYPE	VOLTAGE	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
			TYPE	LUMENS	COLOR TEMP							
S1	LITHONIA	DSX1 LED P4 30K T4M MVOLT	LED	13165	3000 K	80	--	POLE	120	125	POLE MOUNTED SITE LIGHTING FIXTURE	10
WL	MICROLINEA	ML3WLAS-Y-D-CO60RPFJ-KA-90-12-R-FLA-F01M-EF-UNV-DIM10	LED	2578	3000 K	80	--	RECESSED	120	356	EXTERIOR LINEAR WALL WASH FIXTURE, 4 FT SECTIONS, 7.5 W/FT LUMENS OUTPUT PER 4 FT	2
WP	ACUITY	WDGE3 LED P2 30K 80CRI MVOLT SRM	LED	8500	3000 K	80	--	WALL MOUNT	120	15	EXTERIOR WALL PACK	2
WS	BEGA	24 582	LED	1581	3000 K	85	--	WALL MOUNT	120	17	EXTERIOR WALL SQUARE DOWN LIGHT	2
WXE	ACUITY	WDGE2 P130K 80CRI VF MVOLT SRM	LED	1200	3000 K	80	--	WALL MOUNT	120	11	EXTERIOR WALL PACK WITH COLD-WEATHER EM BATTERY	2,4

**GENERAL NOTES:**

- A. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES
- B. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.
- C. REFERENCE PLANS FOR FIXTURES REQUIRING EMERGENCY DRIVERS.
- D. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES

This architectural floor plan shows a building with a complex layout, including a central courtyard and several wings. The plan is overlaid with a grid of dimensions, likely in meters, indicating the spacing between structural elements. The dimensions are as follows:

Row	Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8	Col 9	Col 10	Col 11	Col 12	Col 13	Col 14	Col 15	Col 16	Col 17	Col 18	Col 19	Col 20	Col 21	Col 22	Col 23	Col 24	Col 25	Col 26	Col 27	Col 28	Col 29	Col 30	Col 31	Col 32	Col 33	Col 34	Col 35	Col 36	Col 37	Col 38	Col 39	Col 40	Col 41	Col 42	Col 43	Col 44	Col 45	Col 46	Col 47	Col 48	Col 49	Col 50	Col 51	Col 52	Col 53	Col 54	Col 55	Col 56	Col 57	Col 58	Col 59	Col 60	Col 61	Col 62	Col 63	Col 64	Col 65	Col 66	Col 67	Col 68	Col 69	Col 70	Col 71	Col 72	Col 73	Col 74	Col 75	Col 76	Col 77	Col 78	Col 79	Col 80	Col 81	Col 82	Col 83	Col 84	Col 85	Col 86	Col 87	Col 88	Col 89	Col 90	Col 91	Col 92	Col 93	Col 94	Col 95	Col 96	Col 97	Col 98	Col 99	Col 100	Col 101	Col 102	Col 103	Col 104	Col 105	Col 106	Col 107	Col 108	Col 109	Col 110	Col 111	Col 112	Col 113	Col 114	Col 115	Col 116	Col 117	Col 118	Col 119	Col 120	Col 121	Col 122	Col 123	Col 124	Col 125	Col 126	Col 127	Col 128	Col 129	Col 130	Col 131	Col 132	Col 133	Col 134	Col 135	Col 136	Col 137	Col 138	Col 139	Col 140	Col 141	Col 142	Col 143	Col 144	Col 145	Col 146	Col 147	Col 148	Col 149	Col 150	Col 151	Col 152	Col 153	Col 154	Col 155	Col 156	Col 157	Col 158	Col 159	Col 160	Col 161	Col 162	Col 163	Col 164	Col 165	Col 166	Col 167	Col 168	Col 169	Col 170	Col 171	Col 172	Col 173	Col 174	Col 175	Col 176	Col 177	Col 178	Col 179	Col 180	Col 181	Col 182	Col 183	Col 184	Col 185	Col 186	Col 187	Col 188	Col 189	Col 190	Col 191	Col 192	Col 193	Col 194	Col 195	Col 196	Col 197	Col 198	Col 199	Col 200	Col 201	Col 202	Col 203	Col 204	Col 205	Col 206	Col 207	Col 208	Col 209	Col 210	Col 211	Col 212	Col 213	Col 214	Col 215	Col 216	Col 217	Col 218	Col 219	Col 220	Col 221	Col 222	Col 223	Col 224	Col 225	Col 226	Col 227	Col 228	Col 229	Col 230	Col 231	Col 232	Col 233	Col 234	Col 235	Col 236	Col 237	Col 238	Col 239	Col 240	Col 241	Col 242	Col 243	Col 244	Col 245	Col 246	Col 247	Col 248	Col 249	Col 250	Col 251	Col 252	Col 253	Col 254	Col 255	Col 256	Col 257	Col 258	Col 259	Col 260	Col 261	Col 262	Col 263	Col 264	Col 265	Col 266	Col 267	Col 268	Col 269	Col 270	Col 271	Col 272	Col 273	Col 274	Col 275	Col 276	Col 277	Col 278	Col 279	Col 280	Col 281	Col 282	Col 283	Col 284	Col 285	Col 286	Col 287	Col 288	Col 289	Col 290	Col 291	Col 292	Col 293	Col 294	Col 295	Col 296	Col 297	Col 298	Col 299	Col 300	Col 301	Col 302	Col 303	Col 304	Col 305	Col 306	Col 307	Col 308	Col 309	Col 310	Col 311	Col 312	Col 313	Col 314	Col 315	Col 316	Col 317	Col 318	Col 319	Col 320	Col 321	Col 322	Col 323	Col 324	Col 325	Col 326	Col 327	Col 328	Col 329	Col 330	Col 331	Col 332	Col 333	Col 334	Col 335	Col 336	Col 337	Col 338	Col 339	Col 340	Col 341	Col 342	Col 343	Col 344	Col 345	Col 346	Col 347	Col 348	Col 349	Col 350	Col 351	Col 352	Col 353	Col 354	Col 355	Col 356	Col 357	Col 358	Col 359	Col 360	Col 361	Col 362	Col 363	Col 364	Col 365	Col 366	Col 367	Col 368	Col 369	Col 370	Col 371	Col 372	Col 373	Col 374	Col 375	Col 376	Col 377	Col 378	Col 379	Col 380	Col 381	Col 382	Col 383	Col 384	Col 385	Col 386	Col 387	Col 388	Col 389	Col 390	Col 391	Col 392	Col 393	Col 394	Col 395	Col 396	Col 397	Col 398	Col 399	Col 400	Col 401	Col 402	Col 403	Col 404	Col 405	Col 406	Col 407	Col 408	Col 409	Col 410	Col 411	Col 412	Col 413	Col 414	Col 415	Col 416	Col 417	Col 418	Col 419	Col 420	Col 421	Col 422	Col 423	Col 424	Col 425	Col 426	Col 427	Col 428	Col 429	Col 430	Col 431	Col 432	Col 433	Col 434	Col 435	Col 436	Col 437	Col 438	Col 439	Col 440	Col 441	Col 442	Col 443	Col 444	Col 445	Col 446	Col 447	Col 448	Col 449	Col 450	Col 451	Col 452	Col 453	Col 454	Col 455	Col 456	Col 457	Col 458	Col 459	Col 460	Col 461	Col 462	Col 463	Col 464	Col 465	Col 466	Col 467	Col 468	Col 469	Col 470	Col 471	Col 472	Col 473	Col 474	Col 475	Col 476	Col 477	Col 478	Col 479	Col 480	Col 481	Col 482	Col 483	Col 484	Col 485	Col 486	Col 487	Col 488	Col 489	Col 490	Col 491	Col 492	Col 493	Col 494	Col 495	Col 496	Col 497	Col 498	Col 499	Col 500	Col 501	Col 502	Col 503	Col 504	Col 505	Col 506	Col 507	Col 508	Col 509	Col 510	Col 511	Col 512	Col 513	Col 514	Col 515	Col 516	Col 517	Col 518	Col 519	Col 520	Col 521	Col 522	Col 523	Col 524	Col 525	Col 526	Col 527	Col 528	Col 529	Col 530	Col 531	Col 532	Col 533	Col 534	Col 535	Col 536	Col 537	Col 538	Col 539	Col 540	Col 541	Col 542	Col 543	Col 544	Col 545	Col 546	Col 547	Col 548	Col 549	Col 550	Col 551	Col 552	Col 553	Col 554	Col 555	Col 556	Col 557	Col 558	Col 559	Col 560	Col 561	Col 562	Col 563	Col 564	Col 565	Col 566	Col 567	Col 568	Col 569	Col 570	Col 571	Col 572	Col 573	Col 574	Col 575	Col 576	Col 577	Col 578	Col 579	Col 580	Col 581	Col 582	Col 583	Col 584	Col 585	Col 586	Col 587	Col 588	Col 589	Col 590	Col 591	Col 592	Col 593	Col 594	Col 595	Col 596	Col 597	Col 598	Col 599	Col 600	Col 601	Col 602	Col 603	Col 604	Col 605	Col 606	Col 607	Col 608	Col 609	Col 610	Col 611	Col 612	Col 613	Col 614	Col 615	Col 616	Col 617	Col 618	Col 619	Col 620	Col 621	Col 622	Col 623	Col 624	Col 625	Col 626	Col 627	Col 628	Col 629	Col 630	Col 631	Col 632	Col 633	Col 634	Col 635	Col 636	Col 637	Col 638	Col 639	Col 640	Col 641	Col 642	Col 643	Col 644	Col 645	Col 646	Col 647	Col 648	Col 649	Col 650	Col 651	Col 652	Col 653	Col 654	Col 655	Col 656	Col 657	Col 658	Col 659	Col 660	Col 661	Col 662	Col 663	Col 664	Col 665	Col 666	Col 667	Col 668	Col 669	Col 670	Col 671	Col 672	Col 673	Col 674	Col 675	Col 676	Col 677	Col 678	Col 679	Col 680	Col 681	Col 682	Col 683	Col 684	Col 685	Col 686	Col 687	Col 688	Col 689	Col 690	Col 691	Col 692	Col 693	Col 694	Col 695	Col 696	Col 697	Col 698	Col 699	Col 700	Col 701	Col 702	Col 703	Col 704	Col 705	Col 706	Col 707	Col 708	Col 709	Col 710	Col 711	Col 712	Col 713	Col 714	Col 715	Col 716	Col 717	Col 718	Col 719	Col 720	Col 721	Col 722	Col 723	Col 724	Col 725	Col 726	Col 727	Col 728	Col 729	Col 730	Col 731	Col 732	Col 733	Col 734	Col 735	Col 736	Col 737	Col 738	Col 739	Col 740	Col 741	Col 742	Col 743	Col 744	Col 745	Col 746	Col 747	Col 748	Col 749	Col 750	Col 751	Col 752	Col 753	Col 754	Col 755	Col 756	Col 757	Col 758	Col 759	Col 760	Col 761	Col 762	Col 763	Col 764	Col 765	Col 766	Col 767	Col 768	Col 769	Col 770	Col 771	Col 772	Col 773	Col 774	Col 775	Col 776	Col 777	Col 778	Col 779	Col 780	Col 781	Col 782	Col 783	Col 784	Col 785	Col 786	Col 787	Col 788	Col 789	Col 790	Col 791	Col 792	Col 793	Col 794	Col 795	Col 796	Col 797	Col 798	Col 799	Col 800	Col 801	Col 802	Col 803	Col 804	Col 805	Col 806	Col 807	Col 808	Col 809	Col 810	Col 811	Col 812	Col 813	Col 814	Col 815	Col 816	Col 817	Col 818	Col 819	Col 820	Col 821	Col 822	Col 823	Col 824	Col 825	Col 826	Col 827	Col 828	Col 829	Col 830	Col 831	Col 832	Col 833	Col 834	Col 835	Col 836	Col 837	Col 838	Col 839	Col 840	Col 841	Col 842	Col 843	Col 844	Col 845	Col 846	Col 847	Col 848	Col 849	Col 850	Col 851	Col 852	Col 853	Col 854	Col 855	Col 856	Col 857	Col 858	Col 859	Col 860	Col 861	Col 862	Col 863	Col 864	Col 865	Col 866	Col 867	Col 868	Col 869	Col 870	Col 871	Col 872	Col 873	Col 874	Col 875	Col 876	Col 877	Col 878	Col 879	Col 880	Col 881	Col 882	Col 883	Col 884	Col 885	Col 886	Col 887	Col 888	Col 889	Col 890	Col 891	Col 892	Col 893	Col 894	Col 895	Col 896	Col 897	Col 898	Col 899	Col 900	Col 901	Col 902	Col 903	Col 904	Col 905	Col 906	Col 907	Col 908	Col 909	Col 910	Col 911	Col 912	Col 913	Col 914	Col 915	Col 916	Col 917	Col 918	Col 919	Col 920	Col 921	Col 922	Col 923	Col 924	Col 925	Col 926	Col 927	Col 928	Col 929	Col 930	Col 931	Col 932	Col 933	Col 934	Col 935	Col 936	Col 937	Col 938	Col 939	Col 940	Col 941	Col 942	Col 943	Col 944	Col 945	Col 946	Col 947	Col 948	Col 949	Col 950	Col 951	Col 952	Col 953	Col 954	Col 955	Col 956	Col 957	Col 958	Col 959	Col 960	Col 961	Col 962	Col 963	Col 964	Col 965	Col 966	Col 967	Col 968	Col 969	Col 970	Col 971	Col 972	Col 973	Col 974	Col 975	Col 976	Col 977	Col 978	Col 979	Col 980	Col 981	Col 982	Col 983	Col 984	Col 985	Col 986	Col 987	Col 988	Col 989	Col 990	Col 991	Col 992	Col 993	Col 994	Col 995	Col 996	Col 997	Col 998	Col 999	Col 1000	Col 1001	Col 1002	Col 1003	Col 1004	Col 1005	Col 1006	Col 1007	Col 1008	Col 1009	Col 1010	Col 1011	Col 1012	Col 1013	Col 1014	Col 1015	Col 1016	Col 1017	Col 1018	Col 1019	Col 1020	Col 1021	Col 1022	Col 1023	Col 1024	Col 1025	Col 1026	Col 1027	Col 1028	Col 1029	Col 1030	Col 1031	Col 1032	Col 1033	Col 1034	Col 1035	Col 1036	Col 1037	Col 1038	Col 1039	Col 1040	Col 1041	Col 1042	Col 1043	Col 1044	Col 1045	Col 1046	Col 1047	Col 1048	Col 1049	Col 1050	Col 1051	Col 1052	Col 1053	Col 1054	Col 1055	Col 1056	Col 1057	Col 1058	Col 1059	Col 1060	Col 1061	Col 1062	Col 1063	Col 1064	Col 1065	Col 1066	Col 1067	Col 1068	Col 1069	Col 1070	Col 1071	Col 1072	Col 1073	Col 1074	Col 1075	Col 1076	Col 1077	Col 1078	Col 1079	Col 1080	Col 1081	Col 1082	Col 1083	Col 1084	Col 1085	Col 1086	Col 1087	Col 1088	Col 1089	Col 1090	Col 1091	Col 1092	Col 1093	Col 1094	Col 1095	Col 1096	Col 1097	Col 1098	Col 1099	Col 1100	Col 1101	Col 1102	Col 1103	Col 1104	Col 1105	Col 1106	Col 1107	Col 1108	Col 1109	Col 1110	Col 1111	Col 1112	Col 1113	Col 1114	Col 1115	Col 1116	Col 1117	Col
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A circle with a vertical line segment from the center to the top edge, labeled 'N'.



FILE PATH: BIM 360://18225R21001\_LeesSummitFireStation\_#4 and #5/LSMO\_FIRE STATION\_5\_MEP\_V19.rvt

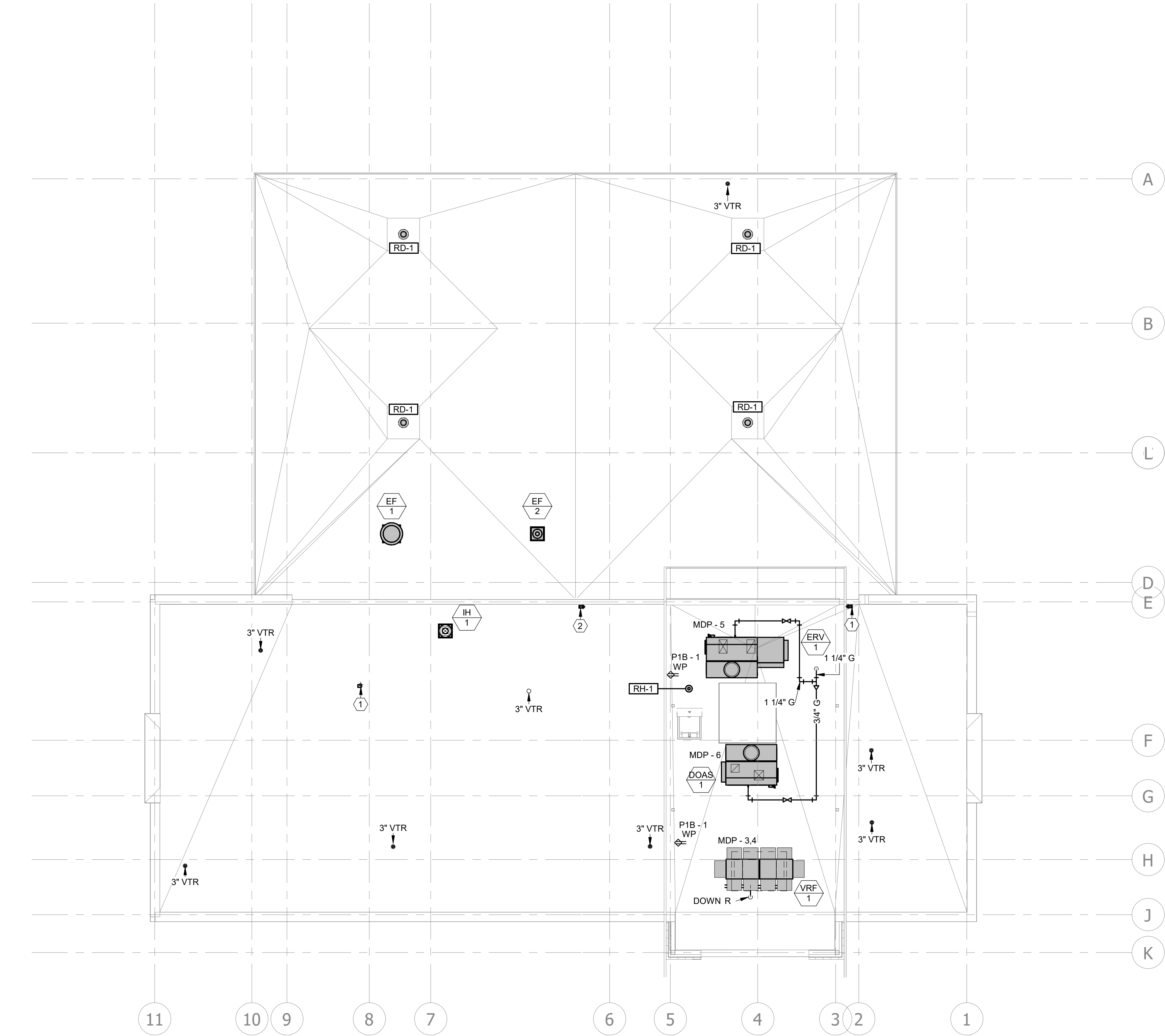
E

D

C

B

A



**A1 MPE ROOF PLAN**  
1/8" = 1'-0"  
0 4' 8' 16'

**MECHANICAL PLAN NOTES:**

- 1 4" DRYER DUCT TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
- 2 4" WATER HEATER VENT/COMBUSTION AIR PIPING TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.

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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64064  
100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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STATE OF MISSOURI  
NEIL P. BARTLEY  
REGISTERED PROFESSIONAL ENGINEER  
PE-2007023868  
10-26-12  
NEIL BARTLEY - ENGINEER  
MO# PE-2007023868  
The Professional Architects seal affixed to this sheet applies only to the material and work shown on this sheet. No drawings, calculations, or other documents or exhibits, however, shall not be considered prepared by the architect, and the architect's responsibility is not to be considered by each plan, drawing, or document not exhibiting this seal.

PROJECT NO: 18225R21001  
DATE: 10.20.2022  
DRAWN BY: JL  
CHK'D BY: NB

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**MPE ROOF PLAN**

**ME101**

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS



THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS  
ETC. ARE USED ON THE DRAWINGS.

- A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND APPLY FINISHES INCLUDING ALL NECESSARY OFFSETS, FITTINGS AND SPECIAL RADIUS OR MITERED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- B. COORDINATE THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY SYSTEM COMPONENTS.
- C. DUCTWORK SHALL BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- D. PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
- E. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS ETC. WITH THE ARCHITECTURAL TRADES.
- F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
- G. BALANCE DUCTWORK TO DIFFUSERS, REGISTERS OR GRILLES SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.
- H. ALL RUNOUTS TO SUPPLY DIFFUSERS SHALL BE PROVIDED WITH BALANCING DAMPERS.
- I. ALL DUCTWORK CONNECTED TO BALANCING TRAPERS WHERE LOCATED ABOVE HARD CEILINGS.
- J. ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION.
- K. PROVIDE ACCESS DOORS IN HARD CEILING AREAS TO ACCESS BALANCING DAMPERS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. COORDINATE WITH THE ARCHITECTURAL TRADES.
- L. COORDINATE THE INSTALLATION OF PIPING AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES.
- M. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW EQUIPMENT.
- N. THE CONTRACTOR SHALL ARRANGE BRANCH RUNOUTS TO UNIT OR UNITS SO THAT IT DOES NOT INTERFERE WITH ACCESS TO THE UNIT OR CONTROLS.
- O. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR SUPPORTS, ANCHORS, AND GUIDES. SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- P. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- Q. ALL REFRIGERANT PIPING BETWEEN SPLIT SYSTEMS SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING SHALL BE PAINTED TO MATCH FINISHES WITH RESPECT TO THE STRUCTURE, AND PAINTED TO MATCH WALL CEILING FINISHES WHERE EXPOSED. COORDINATE WITH GENERAL CONTRACTOR ANY LOCATIONS WHERE PIPING SHALL BE CONCEALED BEHIND FALSE CAVITIES OR FUR-OUTS.
- R. ALL TEMPERATURE CONTROLS DEVICES AND WIRING REQUIRED FOR THE INSTALLATION OF THE TEMPERATURE CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE TEMPERATURE CONTROL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUIT AND BOXES FOR THE TEMPERATURE CONTROL SYSTEM UNDER THE SUPERVISION OF THE TEMPERATURE CONTROL CONTRACTOR.

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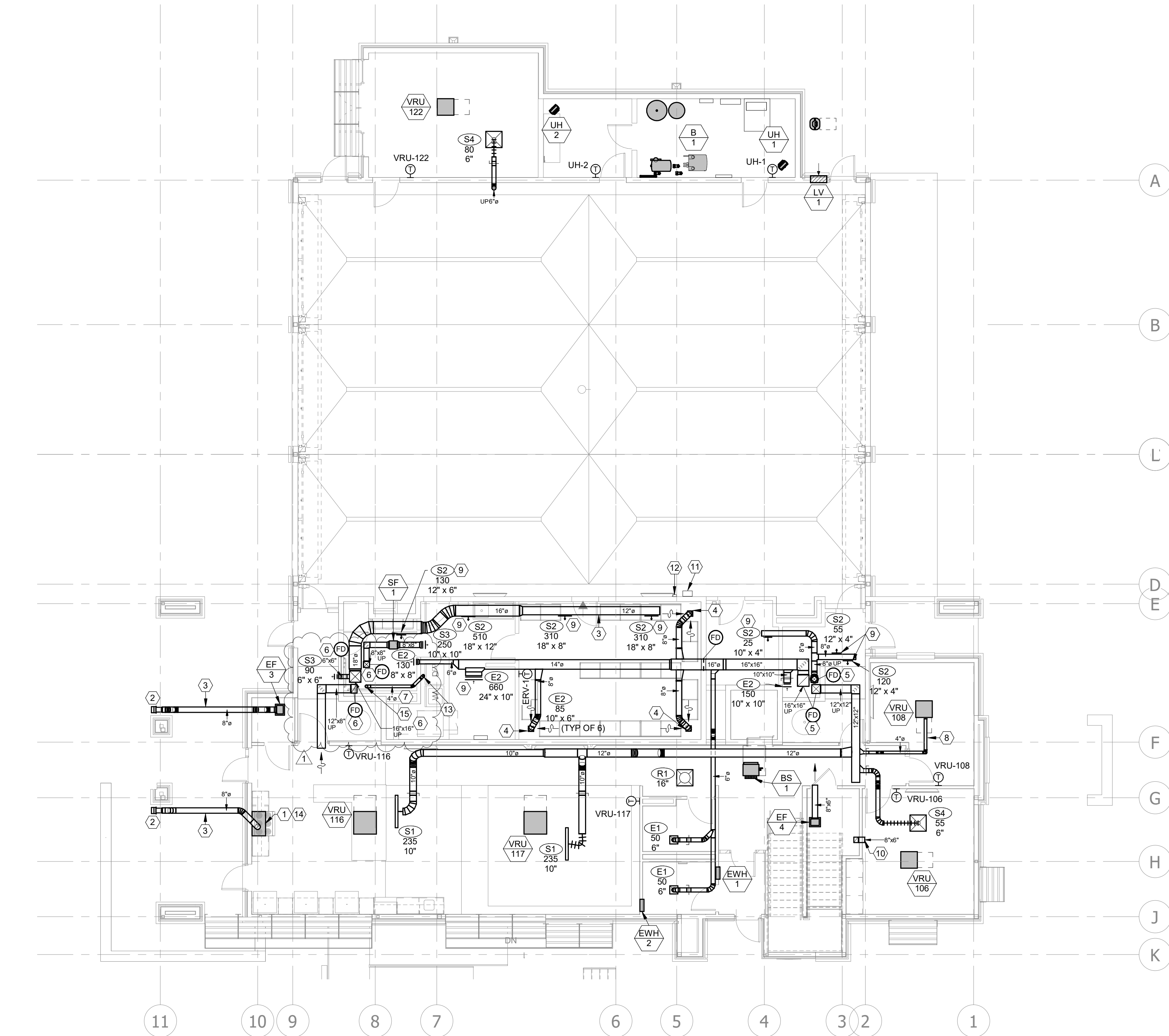
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**A1 FIRST FLOOR HVAC PLAN**  
1/8" = 1'-0"  
0 4' 8' 16'

**MECHANICAL PLAN NOTES:**

- 1 PROVIDE ZLINE, OR EQUAL, MODEL 597 36" STAINLESS STEEL WALL MOUNTED HOOD. MAXIMUM OF 500CFM AIRFLOW WITH INTEGRAL CONTROLS. PROVIDE MATCHING STAINLESS STEEL DUCT SHROUD LENGTH AS REQUIRED TO REACH THE CEILING HEIGHT.
- 2 PROVIDE BROAN, OR EQUAL, MODEL 647 WALL CAP WITH INTEGRAL BACKDRAFT DAMPER AND BIRD SCREEN.
- 3 ROUTE DUCT TIGHT TO THE BOTTOM OF STRUCTURE.
- 4 PROVIDE 8X8 PLENUM AT BOTTOM OF ROUND DUCT. PROVIDE (2) TYPE E2 EXHAUST GRILLES, ONE EACH FACING THE LOCKERS. BOTTOM OF GRILLE AT 18" AFF.
- 5 PROVIDE FIRE DAMPER AT FLOOR PENETRATION.
- 6 PROVIDE 3HR RATED FIRE DAMPER AT WALL/CEILING PENETRATION. COORDINATE PENETRATION WITH STRUCTURAL.
- 7 4" DRYER DUCT TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
- 8 CONNECT TO OUTSIDE AIR DUCT CONNECTION INLET ON CEILING CASSETTE
- 9 MOUNT DIFFUSER AT 30" FROM HORIZONTAL.
- 10 AIR TRANSFER FROM CONFERENCE-106 FOR EF-4. ROUTE DUCT TIGHT TO WALL TO 12" AFF.
- 11 AIR-VAC SYSTEM CONTROLLER. COORDINATE EXACT LOCATION WITH OWNER AND MANUFACTURERS RECOMMENDATIONS. REFER TO SPECS.
- 12 MULTIGAS SYSTEM CONTROLLER. COORDINATE EXACT LOCATION WITH OWNER AND MANUFACTURERS RECOMMENDATIONS. REFER TO SPECS.
- 13 4" DRYER VENT.
- 14 PROVIDE FIRE SUPPRESSION SYSTEM WITHIN THE RANGE HOOD TYPICAL OF GUARDIAN MODEL #5300B. FURNISH WITH 3-PRONG APPLIANCE SHUTOFF. CONNECTION TO GAS SOLENOID VALVE AND WIRELESS RECEIVER FOR RANGE SHUT DOWN TO BE INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE WITH REMOTE MANUAL PULL STATION AND REMOTE ALARM/STROBE ASSEMBLY. PROVIDE WITH PULL STATION FOR REMOTE ACTIVATION TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
- 15 PROVIDE CYCLONE, OR EQUAL, CWVSO 10X11X10 SHROUD AROUND DRYER DUCT PENETRATION.

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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64064  
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1	AS/ C1	11/16/2022



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DATE:	10.20.2022
DRAWN BY:	JL
CHK'D BY:	NB

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**FIRST FLOOR**  
**HVAC PLAN**

**M101**

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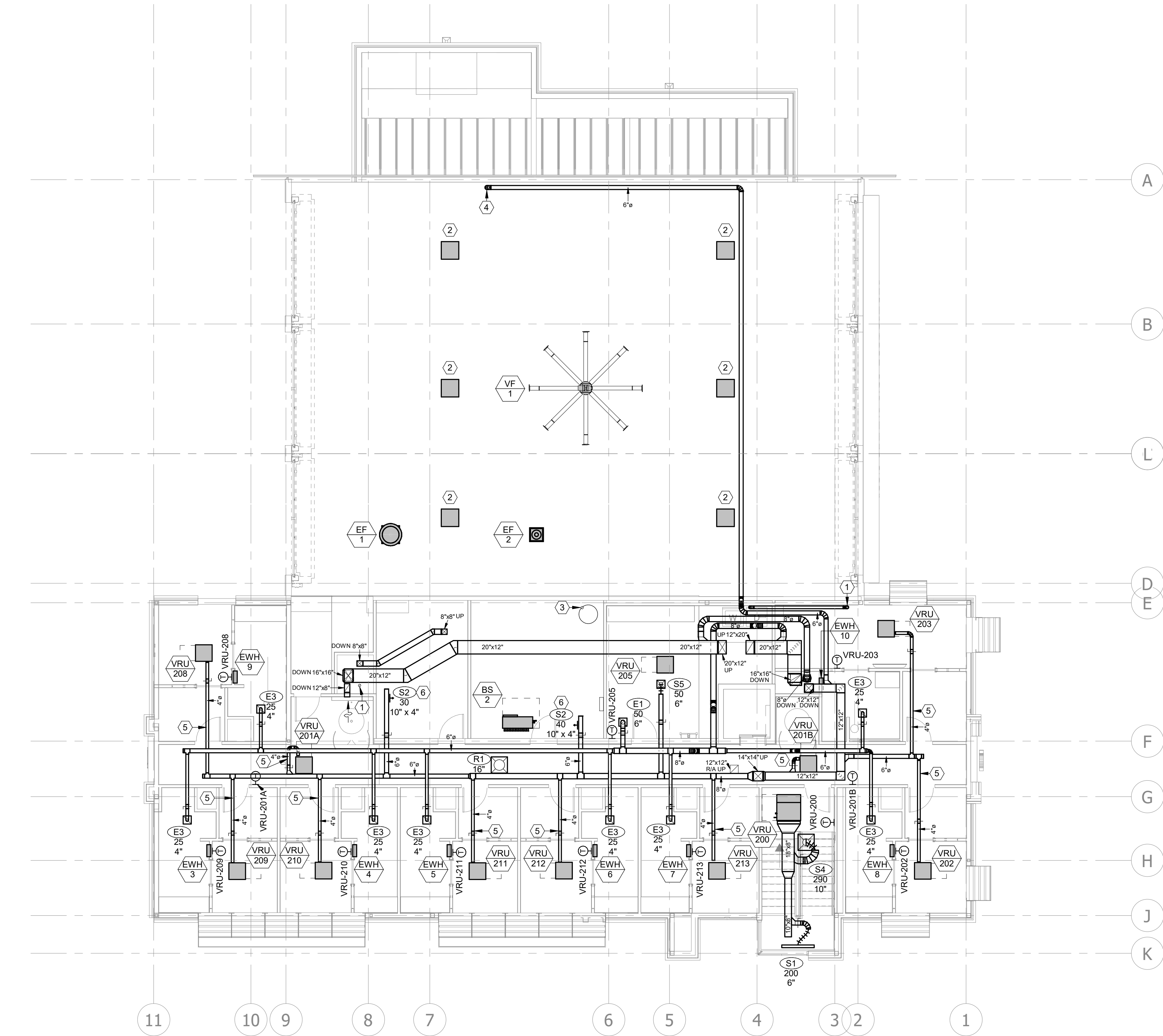
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A1 SECOND FLOOR HVAC PLAN  
1/8" = 1'-0"

MECHANICAL PLAN NOTES:

- 1 4" DRYER DUCT TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
- 2 PROVIDE AIRVAC 911, OR EQUAL VEHICLE EXHAUST FILTRATION SYSTEM. 3/4HP/120V POWER.
- 3 4" WATER HEATER VENT/COMBUSTION AIR PIPING TO ROOF TERMINATION. REFER TO DETAIL, SHEET M301.
- 4 6" DUCT DOWN. REFER TO SHEET M101 FOR CONTINUATION.
- 5 CONNECT TO OUTSIDE AIR DUCT CONNECTION INLET ON CEILING CASSETTE
- 6 MOUNT DIFFUSER AT 30" FROM HORIZONTAL.

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**SECOND FLOOR**  
**HVAC PLAN**

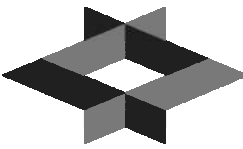
**M102**

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MECHANICAL PLAN NOTES:

- 1 SNOW MELT PIPING TO MANIFOLD BOX. REFER TO MEP SITE PLAN FOR CONTINUATION.
- 2 ROUTE CONDENSATE TO JANITOR SINK/FLOOR DRAIN.
- 3 PROVIDE END OF LINE CONDENSATE CLEAN OUT.
- 4 PROVIDE 3500 SQ. FT. OF RADIANT FLOOR HEATING IN THIS AREA. TUBING SHALL BE INSTALLED 6" BELOW FINISHED FLOOR. COORDINATE SLAB INSULATION WITH ARCHITECT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFO.



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**FIRE STATION #5**  
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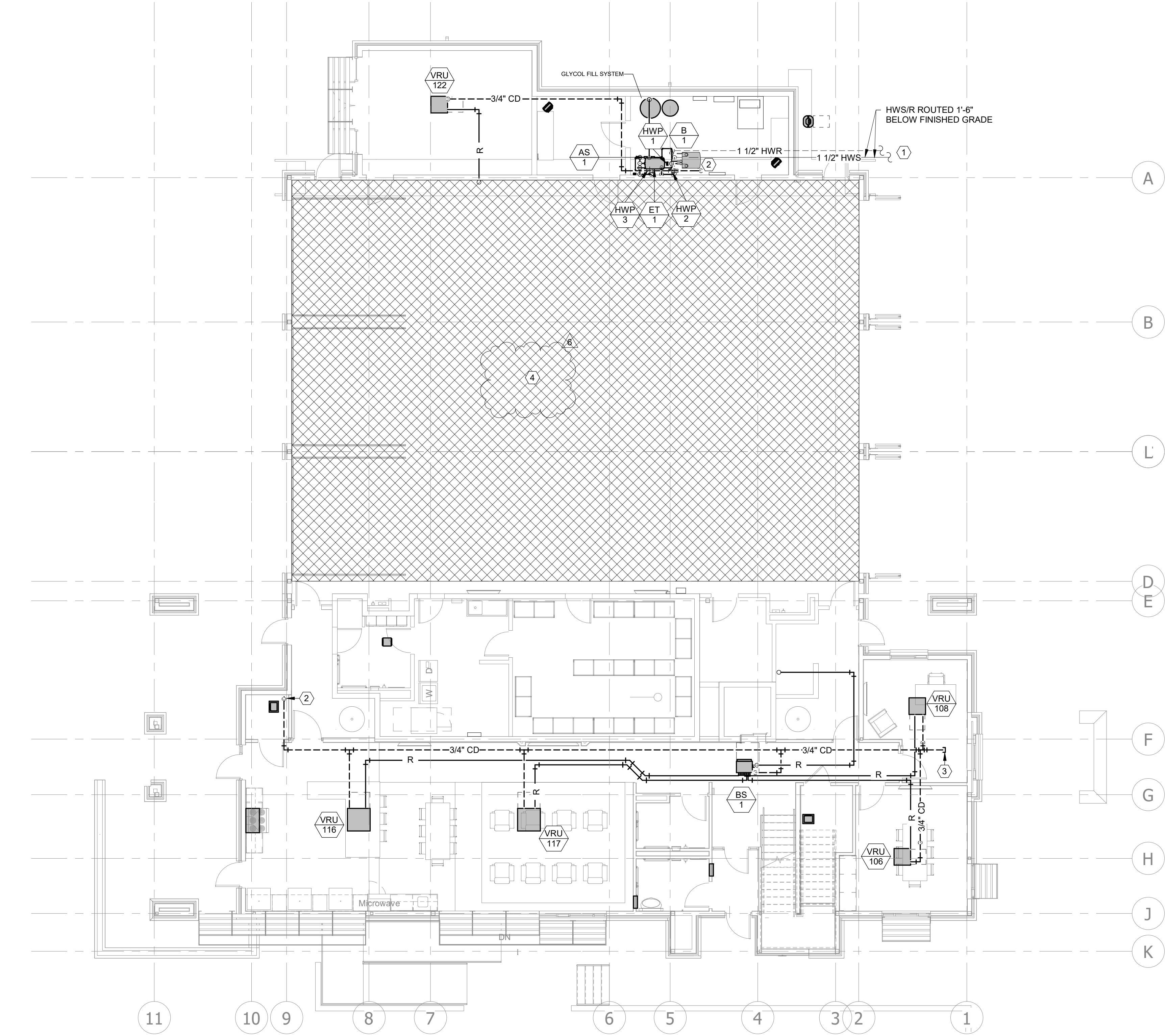
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**FIRST FLOOR**  
**HVAC PIPING**  
**PLAN**

**M201**

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**A1 FIRST FLOOR HVAC PIPING PLAN**  
1/8" = 1'-0"





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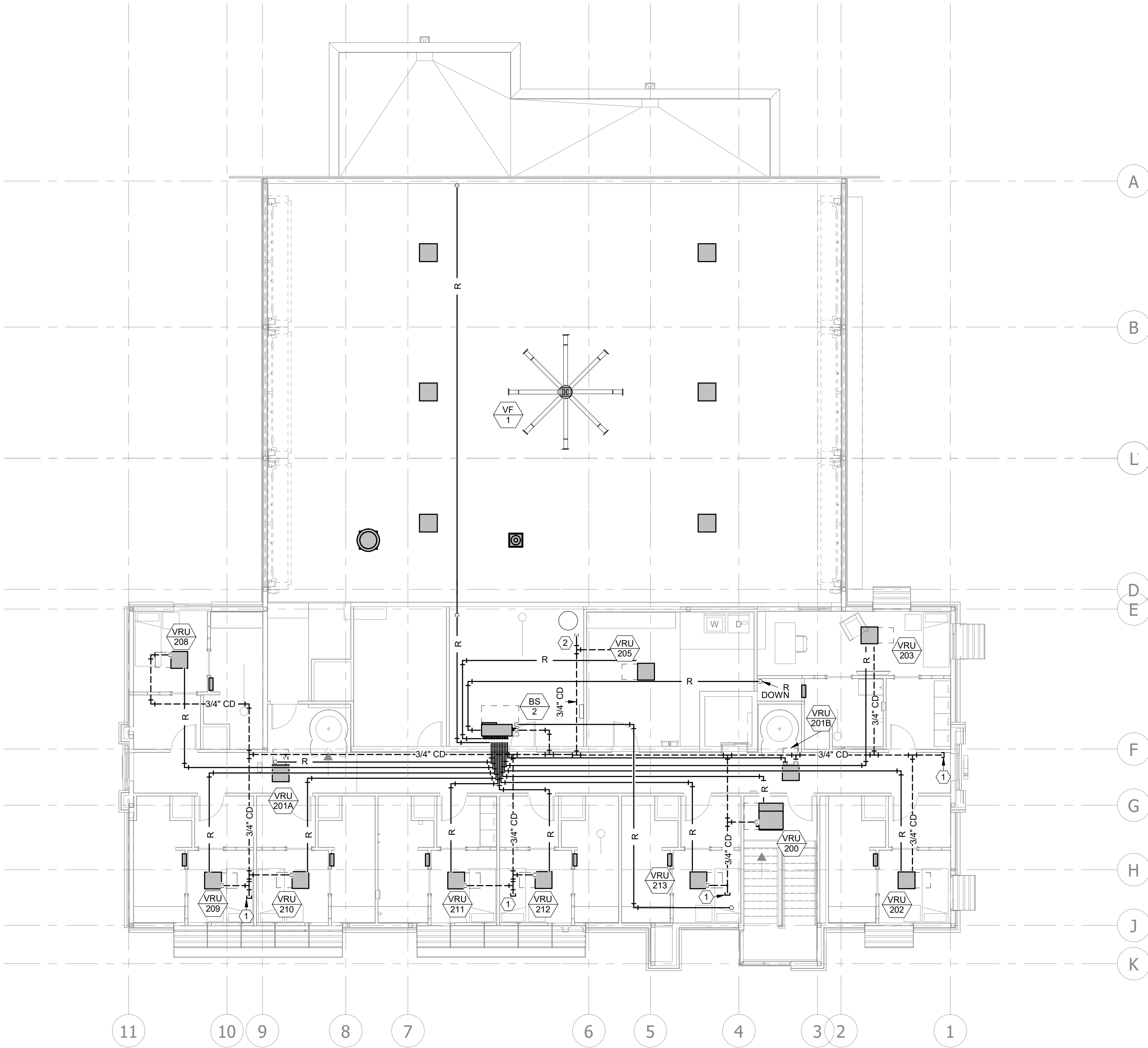
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**A1 SECOND FLOOR HVAC PIPING PLAN**  
1/8" = 1'-0"

**MECHANICAL PLAN NOTES:**

- 1 PROVIDE END OF LINE CONDENSATE CLEAN OUT.
- 2 ROUTE CONDENSATE TO JANITOR SINK/FLOOR DRAIN.

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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
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**SECOND FLOOR  
HVAC PIPING  
PLAN**

**M202**

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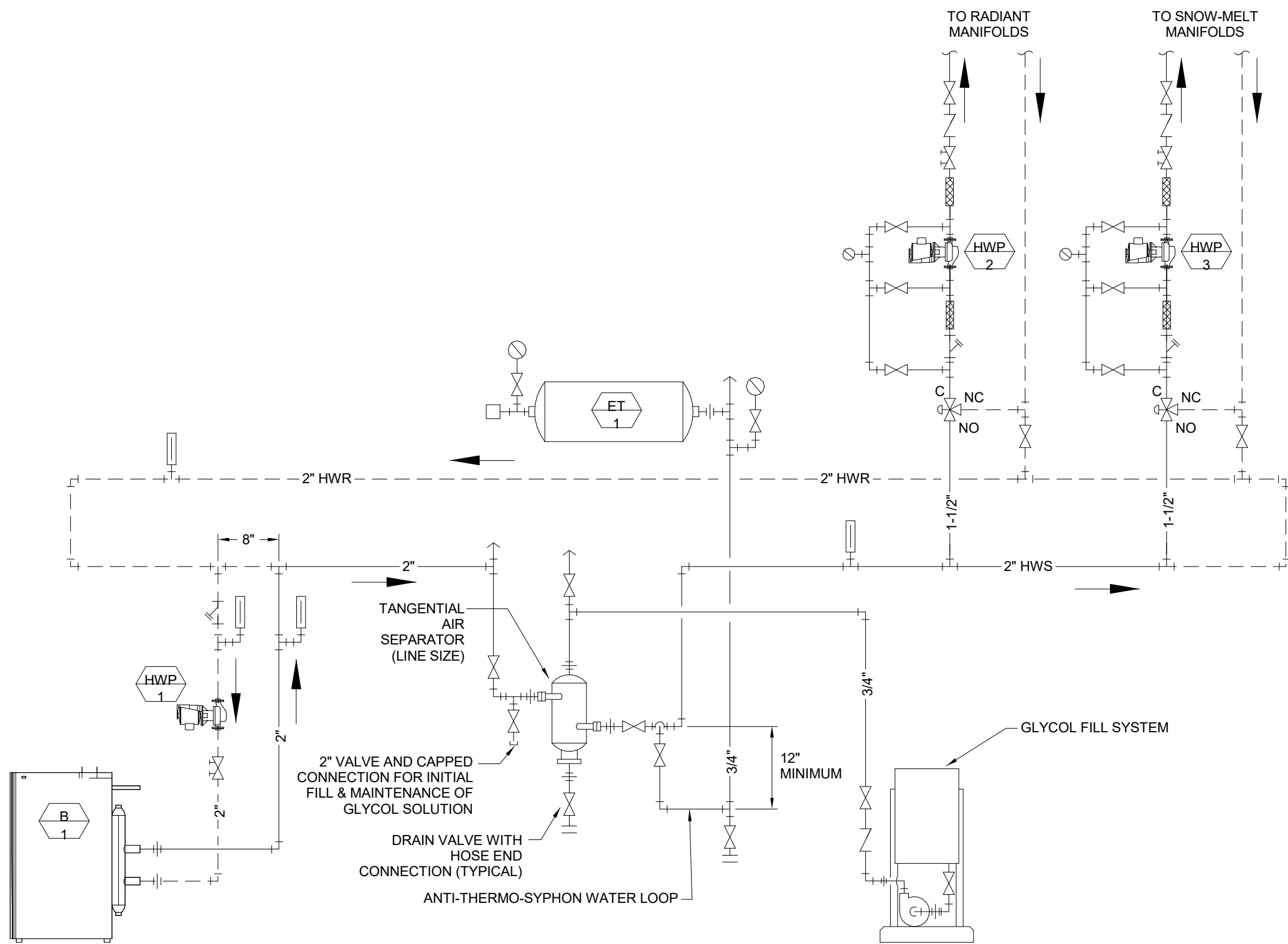
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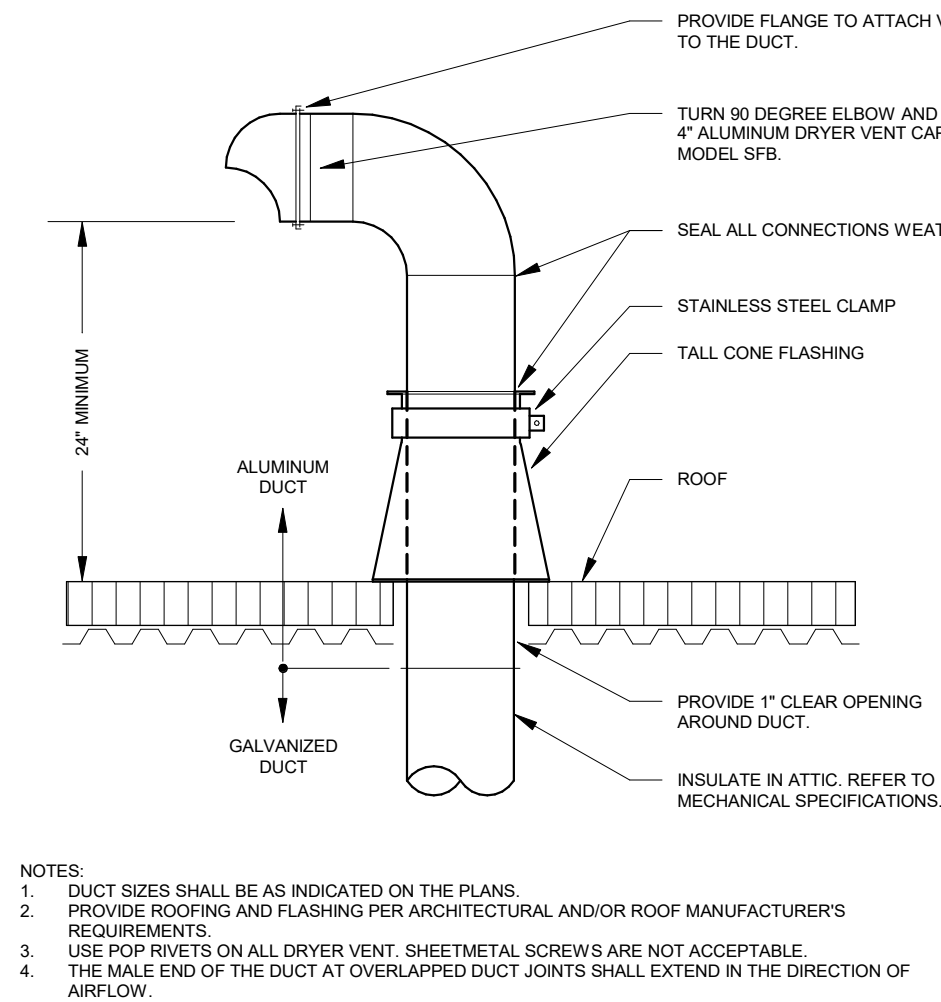
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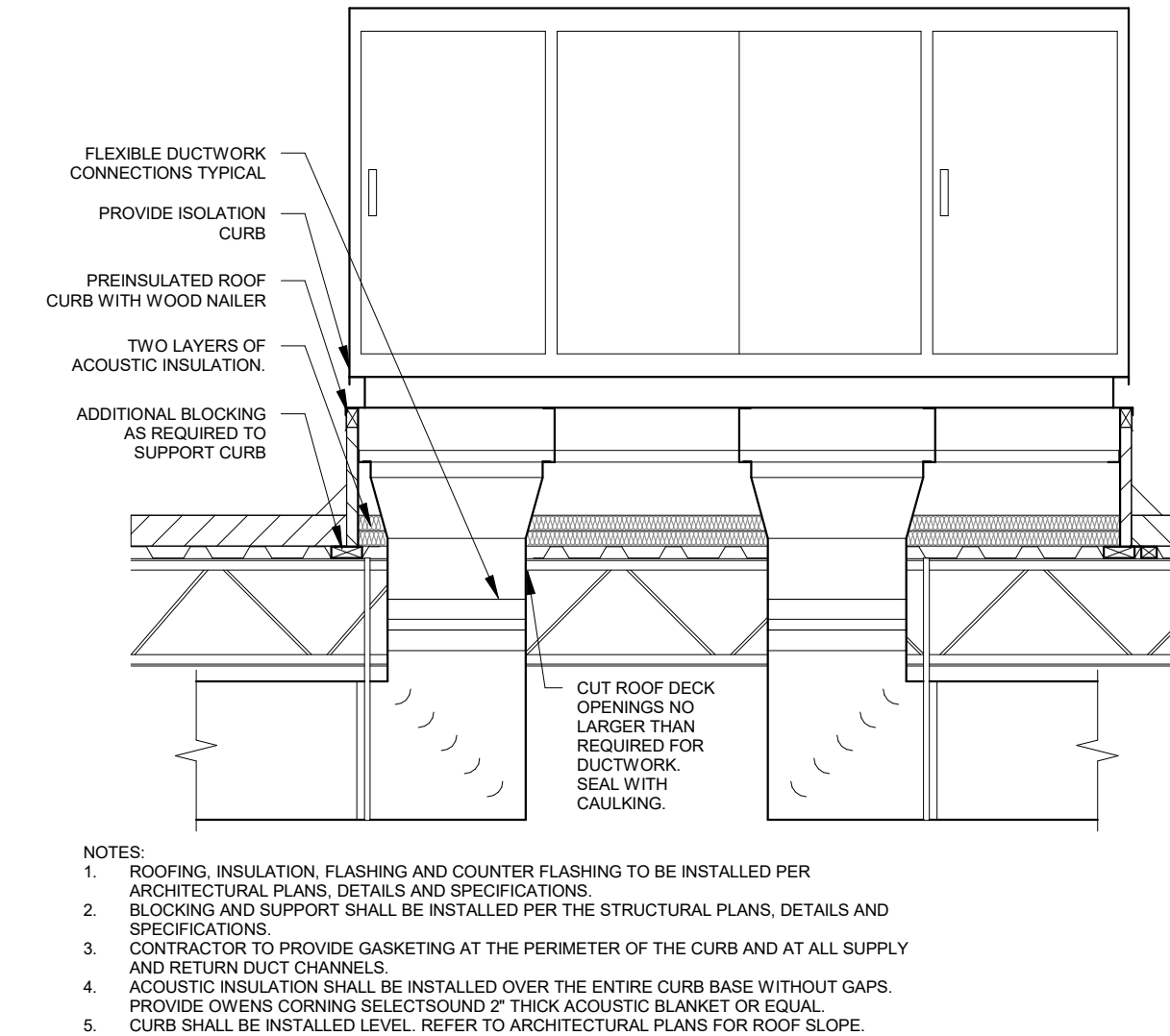
A2 Radiant Piping Schematic  
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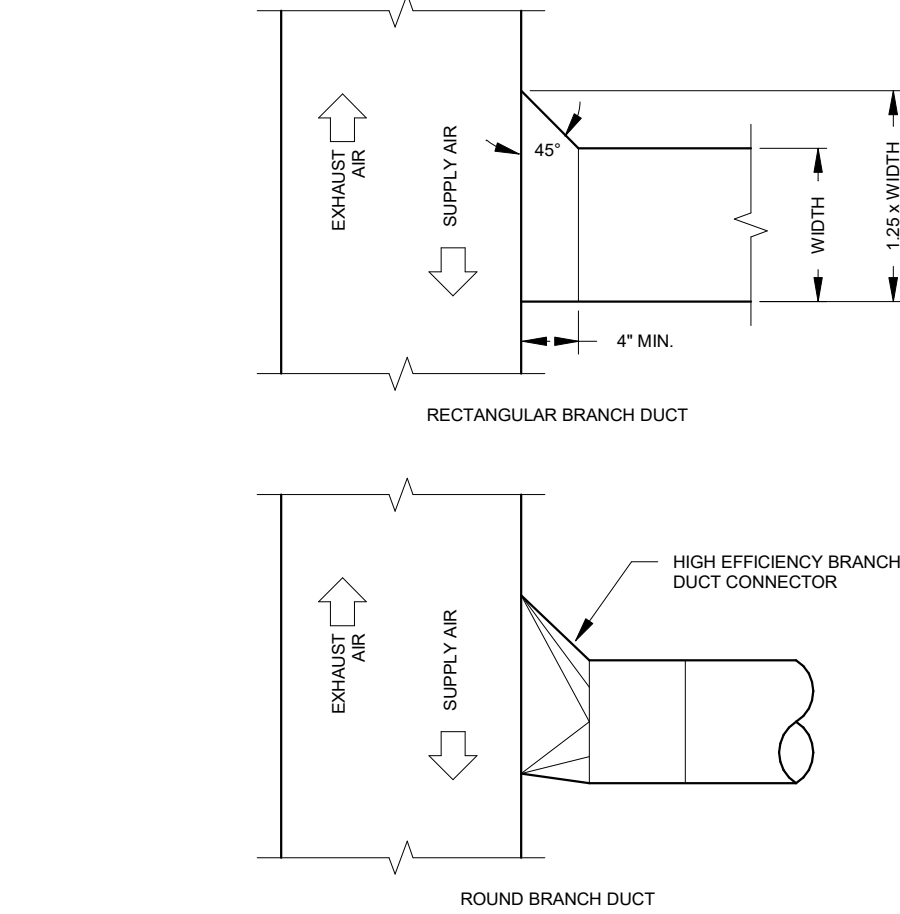
A5 VENT ROOF CLOTHES DRYER  
NOT TO SCALE



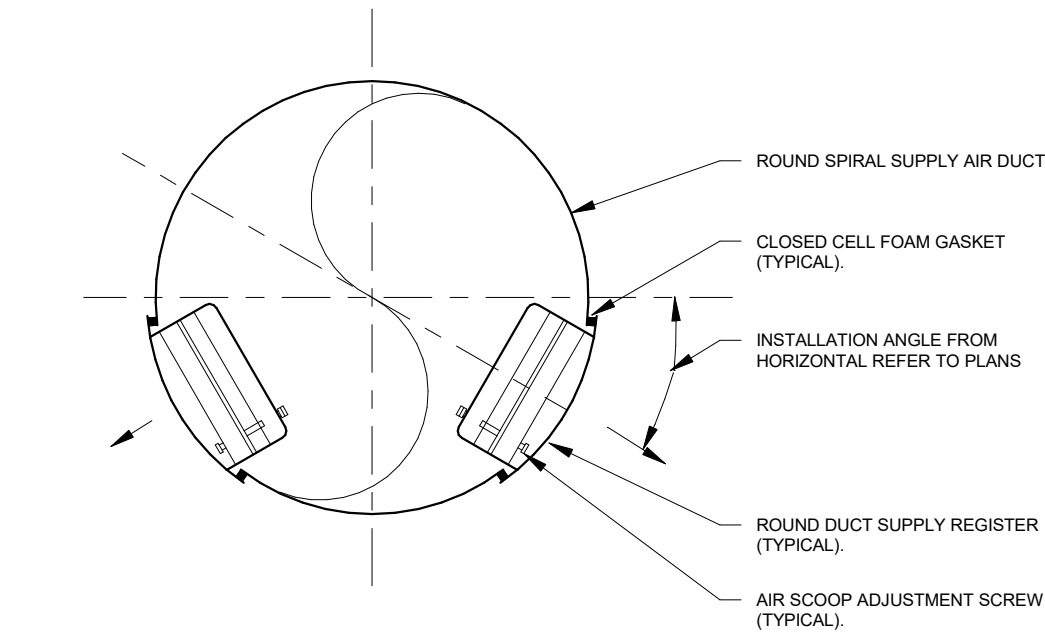
D5 FAN EXHAUST ROOF  
NOT TO SCALE



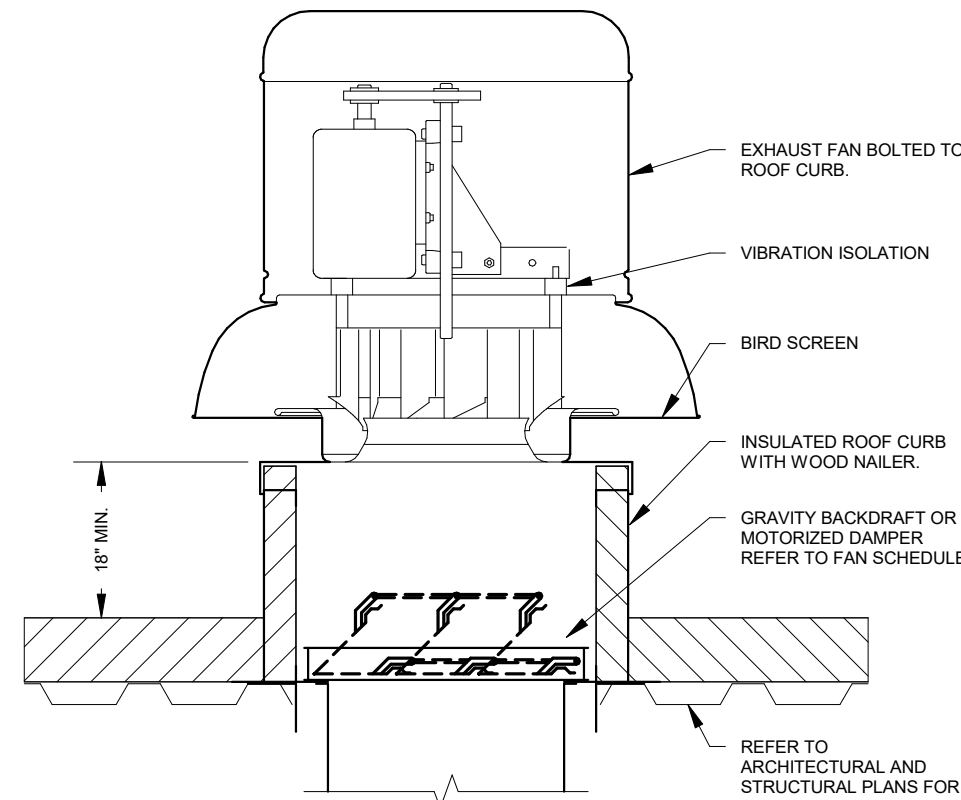
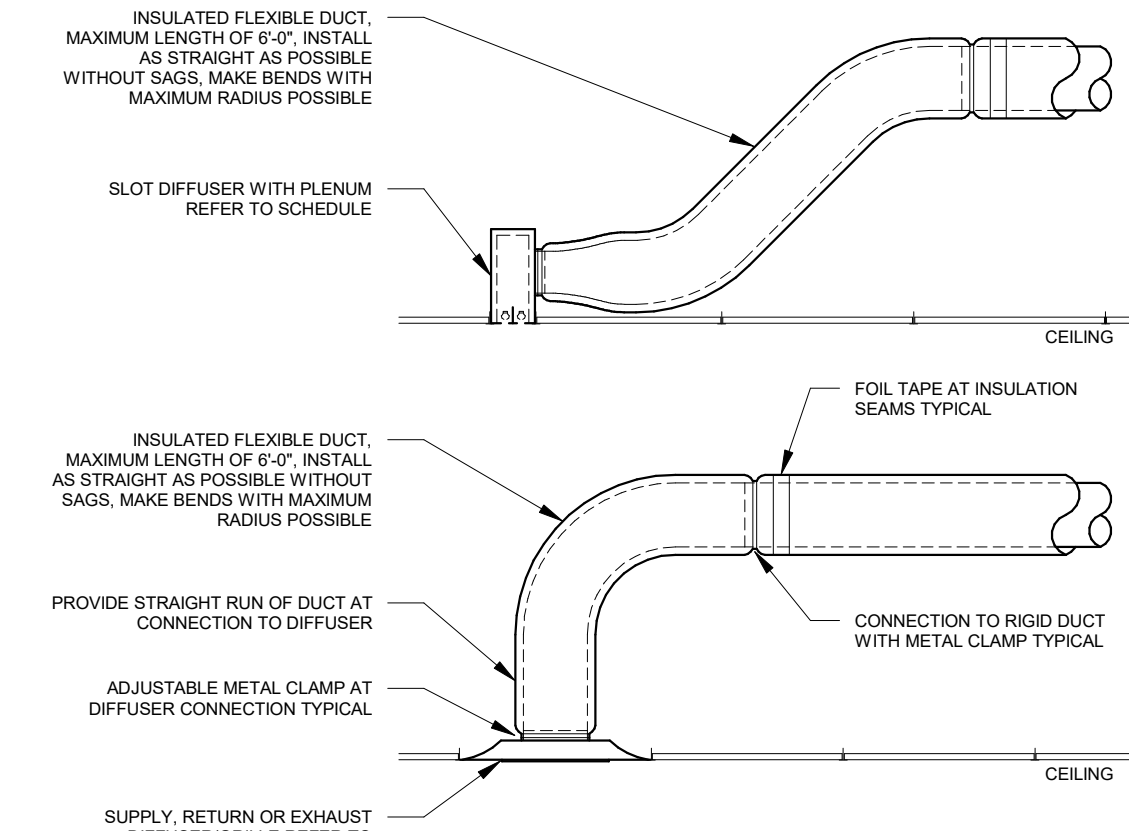
A7 DUCT BRANCH CONNECTION  
NOT TO SCALE



B7 DIFFUSER SUPPLY SPIRAL GRILLE  
NOT TO SCALE



D7 DIFFUSER CONNECTION  
NOT TO SCALE



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**FIRE STATION #5**  
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LEE'S SUMMIT, MISSOURI 64064

REVISIONS:		
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DATE:	10.20.2022
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**MECHANICAL  
DETAILS**

**M301**

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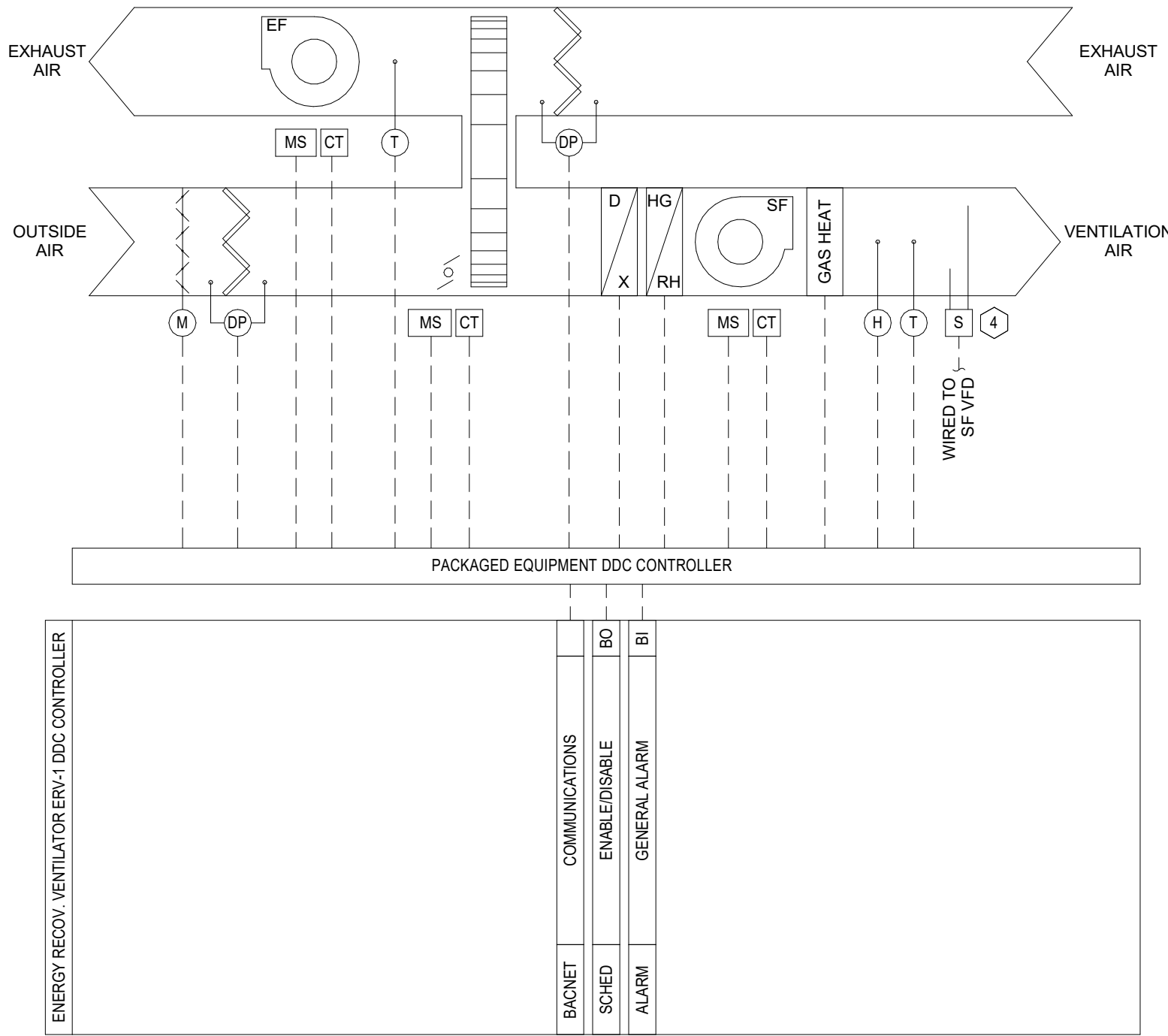
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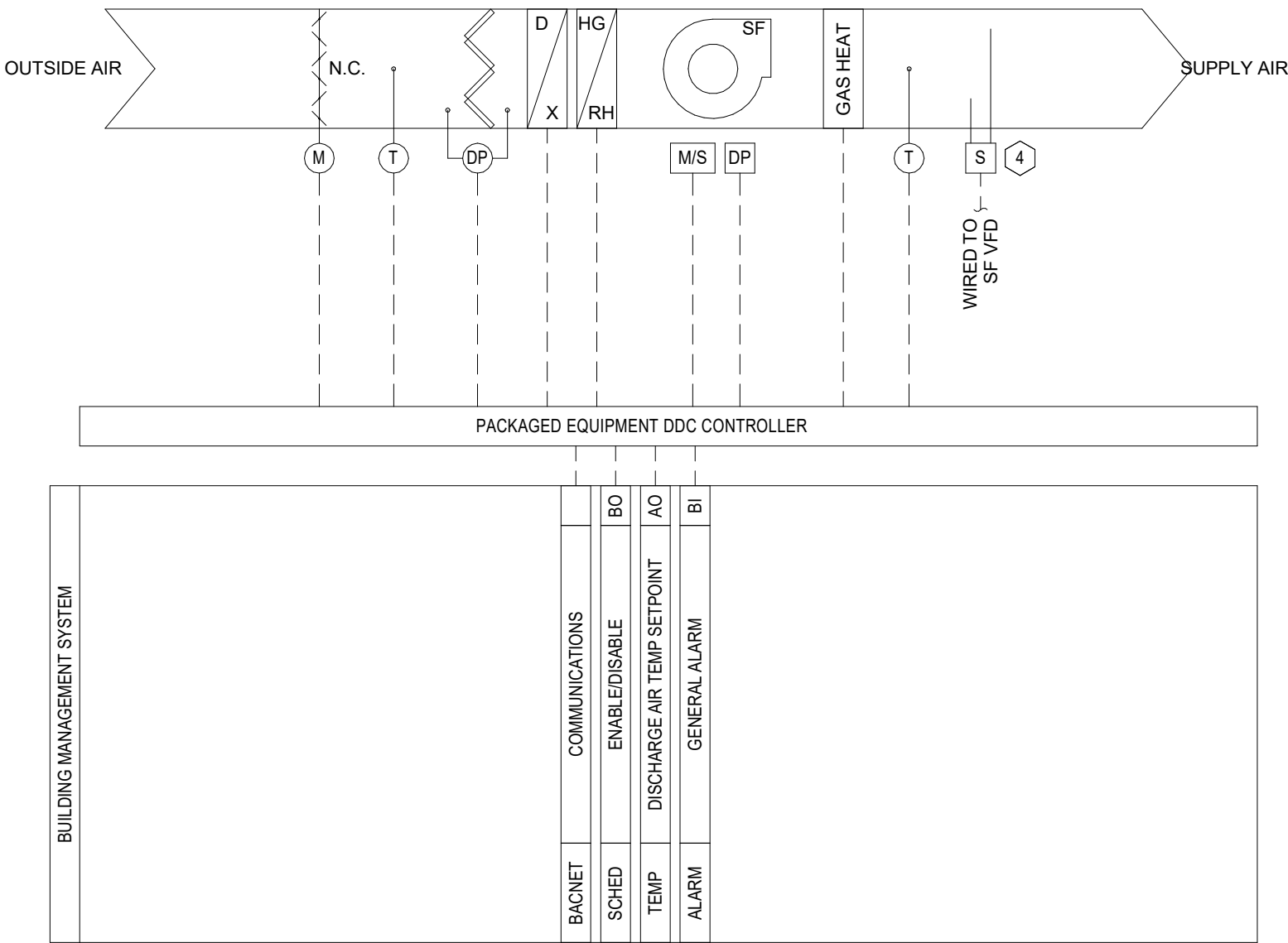
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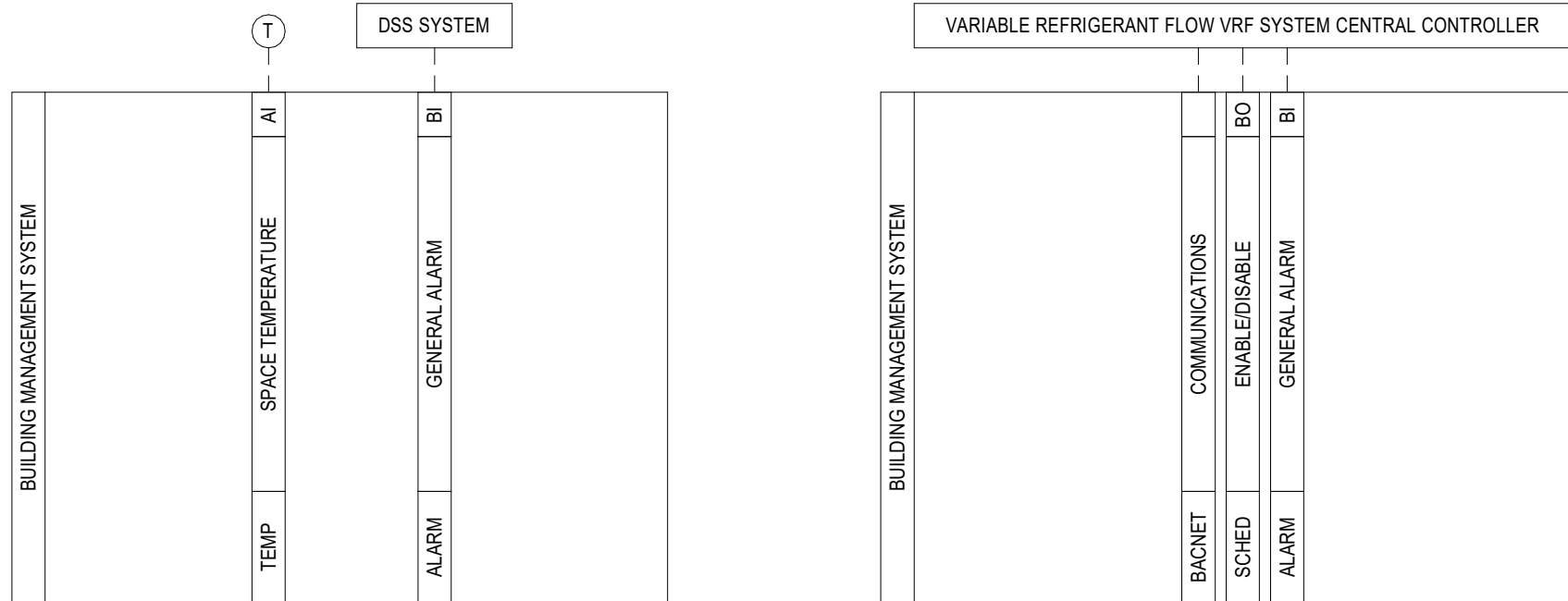
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Scale: None



02 Dedicated Outside Air System DOAS-1 Control Diagram

Scale: None



05 IT/DSS Control Diagram

Scale: None

03 VRF System Control Diagram

Scale: None

GENERAL NOTES:

- All control schematics are for the clarification of equipment interlocking functions and the interface of various contractors' work.
- The temperature control contractor shall provide DDC controllers as required to meet intent of design documents. Refer to the plans for the DDC functions that apply to each mechanical system.
- All wiring and system control voltages shall be in accordance with the equipment manufacturer's recommendation and the electrical specifications.
- Duct smoke detectors shall be provided, wired to the fire alarm system and interlocked with AHU motor starters or variable speed drives to provide code required shut-down by the electrical contractor and/or their fire alarm subcontractor.
- All DDC control interlock wiring shall be provided by the temperature control contractor unless otherwise noted. The temperature control contractor shall coordinate with the motor starter or variable speed drive supplier to determine exact wiring requirements and termination points.
- All DDC control interlock wiring between components shall be installed without intermediate stops. Wire splicing at intermediate terminal strips is not acceptable.
- All electrical wiring shall comply with electrical specification requirements. Raceway required for all 120v wiring and for 24v wiring located in mechanical or electrical rooms. 24v plenum rated cable may be used for DDC wiring concealed above ceilings.
- The Electrical contractor shall provide power supplies required for the temperature control system as indicated on the power plans. Temperature control contractor shall coordinate locations of panels and power requirements with the electrical contractor.
- The temperature control contractor shall verify exact location of all field mounted components.
- Space temperature sensors shall be mounted 4'-0" above finished floor or at elevation of adjacent light switches and other devices. Refer to architectural plans for further details.
- Remotely mounted field devices such as relays, control transformers, etc., shall be housed in an enclosure provided by the temperature control contractor.
- Current switches used for operational status shall have current threshold setpoint adjusted to indicate belt or drive failure.
- All setpoints and operating modes described in the sequences shall be adjustable by the system operators at the operator's workstation graphics. Use appropriate deadbands to prevent short cycling of equipment. All motor control switches shall be in "auto" position.
- All initial setpoints, design flows, design temperatures, etc. shall be shown next to adjustable or monitoring points on the graphics. Runtime shall be shown for each piece of energized equipment. Maintenance alerts shall be shown next to each runtime meter based on manufacturer's recommendations.

CONTROL DIAGRAM NOTES:

- Control damper provided and installed in the ductwork by the mechanical contractor. Provide actuator and control as indicated.
- Packaged unit sensor provided by the equipment manufacturer and installed by the electrical contractor.
- Duct smoke detectors shall be furnished, wired to the fire alarm system and interlocked to AHU variable speed drives/motor starters by the electrical contractor.

SEQUENCE OF OPERATION:

**APPARATUS BAY VENTILATION SEQUENCE OF OPERATION**  
General Ventilation:  
The minimum exhaust fan shall run continuously to maintain the apparatus bay at a negative pressure relative to the rest of the building. If the exhaust fan fails to prove status, it will be commanded off and an alarm will be annunciated at the BMS workstation.

**Heating Packaged Controls:**  
The radiant floor heating system shall operate to maintain the heating space temperature setpoint of 50°F.

**Carbon Monoxide/Nitrogen Dioxide Detection and Alarm:**  
Packaged controls: When carbon monoxide (CO) reaches the low-level alarm setpoint of 50 PPM or nitrogen dioxide (NOX) reaches the low-level alarm setpoint of 2 PPM, the maximum exhaust fan shall be enabled and the outside air damper at the intake louver will open. If space temperature drops below heating setpoint the gas heaters will operate to maintain the space temperature setpoint. When carbon monoxide (CO) reaches the alarm setpoint of 200 PPM or nitrogen dioxide (NOX) reaches the alarm setpoint of 5 PPM, the minimum and maximum exhaust fans shall continue to operate, the outside air damper at the intake louver shall remain open, an audible/visual alarm shall be activated.

SEQUENCE OF OPERATION:

**VARIABLE REFRIGERANT FLOW VRF SYSTEM SEQUENCE OF OPERATION**  
**Packaged Controls:**  
The manufacturer's central controller shall be provided with required sensors and programming for the system. The controller shall be factory programmed, mounted, wired and tested. The controller shall have an LCD readout for changing setpoints and monitoring operation. The controls shall be provided with a BACnet communications interface allowing the capability of BMS monitoring and control of the system.  
The system shall be enabled 24/7/365. The system shall only be disabled for maintenance/service.  
Individual indoor cassettes shall operate continuously to maintain the space temperature setpoint. The occupants shall be able to adjust the space temperature setpoint within system limits. Space temperature setpoints and system limits shall be coordinated with the owner and modifiable for each indoor unit.

**ENERGY RECOVERY VENTILATOR ERV-1 SEQUENCE OF OPERATION**  
**Packaged Controls:**  
The manufacturer's controller shall be provided with required sensors and programming for the unit. The controller shall be factory programmed, mounted, wired and tested. The controller shall have an LCD readout for changing setpoints and monitoring operation. The controls shall be provided with a BACnet communications interface allowing the capability of BMS monitoring and control of the unit.

**Unit Startup:**  
The unit shall be enabled 24/7/365, the following shall occur:  
- Outdoor air damper opens  
- Supply and Exhaust fans start  
- Tempering and energy wheel function as described below

**Unit Stop:**  
When the unit is disabled for maintenance, the following shall occur:  
- Supply and Exhaust fans stop  
- Outdoor air damper closes  
- Tempering and energy wheel function are disabled

**Supply and Exhaust Fan Operation:**  
The supply and exhaust fans are provided with factory mounted variable frequency drives. The supply and exhaust fans shall operate at a constant speed setpoints (adjustable) during operation.

**Outdoor Air Damper Operation:**  
The outdoor air damper is provided with a two-position actuator. When the unit is enabled, the damper will open. When the unit is disabled, the damper will close.

**Cooling Operation:**  
The unit DX cooling is modulated to maintain the space temperature setpoint. Dehumidification Operation:  
During dehumidification cooling is modulated to maintain the cooling coil setpoint (55F adjustable), the hot gas reheat is modulated to maintain the space temperature setpoint. Hot gas reheat is modulated to maintain the space temperature setpoint.

**Heating Operation:**  
The unit gas heat is modulated to maintain the space temperature setpoint. Freeze Protection:  
If supply air temperature drops below setpoint (35F adjustable) for 5 minutes (adjustable), the unit will be disabled and activate the alarm output.

**Energy Wheel Frost Control Operation:**  
Frost control is enabled when frost is present on the wheel based on the outside air temperature and pressure drop across the wheel. Frost control is enabled when outdoor air temperature is below setpoint (5F adjustable) and the differential pressure across the wheel is above setpoint (1.5 IN WG adjustable).

**During frost control the supply fan is cycled (30 minutes on/5 minutes off, adjustable) to allow the warm exhaust air to defrost the wheel. Once either pressure drop is below setpoint or outdoor air temperature is above setpoint the unit will resume normal operation.**

**Alarms:**  
The controller will display alarms on the LCD.  
- Dirty Wheel: If pressure drop across the wheel increases and an alarm shall be generated.  
- Supply and Exhaust Fan Status: If fan status is abnormal and an alarm shall be generated.  
- DX System: If high/low refrigerant pressure is detected the compressors will shut down and an alarm shall be generated.  
- Temperature Sensor: If a temp sensor fails an alarm shall be generated.

**DEDICATED OUTSIDE AIR SYSTEM DOAS-1 SEQUENCE OF OPERATION**  
**Packaged Controls:**  
The manufacturer's controller shall be provided with required sensors and programming for the unit. The controller shall be factory programmed, mounted, wired and tested. The controller shall have an LCD readout for changing setpoints and monitoring operation. The controls shall be provided with a BACnet communications interface allowing the capability of BMS monitoring and control of the unit.

**Unit Startup:**  
The unit shall be enabled 24/7/365, the following shall occur:  
- Outdoor air damper opens  
- Supply fan starts  
- Tempering functions as described below

**Unit Stop:**  
When the unit is disabled for maintenance, the following shall occur:  
- Supply fan stops  
- Outdoor air damper closes  
- Tempering function are disabled

**Supply Fan Operation:**  
The supply fan is provided with an ECM motor for fan speed control. The supply fan shall operate at a constant speed setpoint (adjustable) during operation.

**Outdoor Air Damper Operation:**  
The outdoor air damper is provided with a modulating actuator. When the unit is enabled, the damper will open to its setpoint. When the unit is disabled, the damper will close.

**Cooling Operation:**  
The unit DX cooling is modulated to maintain the discharge air temperature setpoint (70F adjustable).  
Dehumidification Operation:  
During dehumidification (supply air dewpoint) DX cooling is modulated to maintain the cooling coil setpoint (55F adjustable), the hot gas reheat is modulated to maintain the discharge air temperature setpoint.

**Heating Operation:**  
The unit gas heat is modulated to maintain the space temperature setpoint. Freeze Protection:  
If supply air temperature drops below setpoint (35F adjustable) for 5 minutes (adjustable), the unit will be disabled and activate the alarm output.

**Alarms:**  
The controller will display alarms on the LCD.  
- Dirty Filter: If pressure drop across the filter increases and an alarm shall be generated.  
- Supply Fan Status: If fan status is abnormal and an alarm shall be generated.  
- DX System: If high/low refrigerant pressure is detected the compressors will shut down and an alarm shall be generated.  
- Temperature Sensor: If a temp sensor fails an alarm shall be generated.



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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
**801 MISSOURI HIGHWAY 150**  
**LEE'S SUMMIT, MISSOURI 64064**

#	Description	Date
6	AS 06	02/22/2023



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**TEMPERATURE CONTROLS**

**M302**

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS



ROOFTOP UNIT SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	MIN O/A CFM	SUPPLY FAN						RETURN FAN						DX COOLING				HOT GAS REHEAT		GAS HEAT		ELECTRICAL DATA				WEIGHT (LBS)	NOTES						
				CFM	TYPE	DRIVE	ESP	TSP	BHP	HP	RPM	CFM	TYPE	DRIVE	ESP	TSP	BHP	HP	RPM	ENTERING AIR TEMP		LEAVING AIR TEMP		TOTAL CAPACITY (BTU/H)	SENSIBLE CAPACITY (BTU/H)	LEAVING AIR TEMP				INPUT (Mbh)	OUTPUT (Mbh)	VOLTS	PHASE	MCA	MOCP (A)
																				DB	WB	DB	WB			DB	WB								
DOAS 1	RUPP AIR	CASRTU1-I-75-13-6T	1025	1025	13P-1	DIRECT	1.00	1.25	0.230	1	1100	0	-	-	0.00	0.00	0.00	0	0	87	79	57	57	83.9	33.6	70	62	104.3	84.5	208	1	30.7	35	1183	1,2,3,4,5,6
ERV 1	RUPP AIR	RARTU1-I-200-15-5T	1540	1540	15P-1	DIRECT	2.00	2.50	1.140	2	1400	1925	15P-1	DIRECT	1.00	1.50	1.14	2	0	80	66	53	53	59.9	43.9	75	61	196.2	156.9	208	3	38.1	40	1649	1,2,3,4,5

**NOTES:**

- ESP DOES NOT INCLUDE DIRTY FILTER PRESSURE DROP. ADD 0.5" TO INTERNAL PRESSURE DROP FOR DIRTY FILTERS.
- PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED DISCONNECT FOR SINGLE-POINT ELECTRICAL CONNECTION.
- PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED VFD.
- PROVIDE INSULATED ROOF CURB, HEIGHT AS REQUIRED TO PROVIDE 18" CLEARANCE ABOVE FINISHED ROOF. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPE.
- PROVIDE BURNER WITH MODULATING GAS HEAT.
- PROVIDE UNIT WITH BAROMETRIC RELIEF DAMPER.

**GENERAL NOTES (APPLY TO ALL ABOVE):**

- PROVIDE MINIMUM EFFICIENCY OF MERV 6 FILTERS DURING CONSTRUCTION AND CHANGE MONTHLY AFTER UNIT START-UP. FINAL FILTER CHANGE AT OWNER OCCUPANCY SHALL BE MERV 8.
- ELECTRICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS IN THE MAIN RETURN DUCT AND INTERLOCK WITH UNIT PER CODE.
- FUEL SOURCE FOR GAS HEATER IS NATURAL GAS.
- PROVIDE A CONDENSATE DRAIN WITH A TRAP DEPTH 2" DEEPER THAN THE EXPECTED STATIC PRESSURE AT THE DRAIN LOCATION IN THE UNIT AND EXTEND TO NEAREST ROOF DRAIN.
- COOLING CAPACITY SHALL BE BASED ON 105 F AMBIENT TEMPERATURE.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	FACE SIZE	SERVICE	MAX NC	MAX PRESSURE DROP (IN WG)	DAMPER	NOTES
E1	TITUS	355FL	12x12	EXHAUST	30	0.10	NO	
E2	TITUS	355RL	SEE PLAN	EXHAUST	30	0.10	YES	
E3	TITUS	355FL	12x12	EXHAUST	30	0.10	YES	
R1	TITUS	OMNI	24x24	RETURN	30	0.10	NO	
S1	TITUS	ML-39	48"x4"	SUPPLY	30	0.10	NO	1,2
S2	TITUS	S300FL	SEE PLAN	SUPPLY	30	0.10	YES	
S3	TITUS	300RL	SEE PLAN	SUPPLY	30	0.10	NO	
S4	TITUS	OMNI	24x24	SUPPLY	30	0.10	NO	
S5	TITUS	OMNI	12x12	SUPPLY	30	0.10	NO	
<b>NOTES:</b> 1. PROVIDE 2 - 1" SLOTS AND MANUFACTURER'S 48" INSULATED PLENUM WITH 10" INLET. CONTRACTOR SHALL CONSTRUCT A PLENUM EXTENSION AS REQUIRED FOR THE PLENUM TO CLEAR THE CEILING STRUCTURE. EACH DIFFUSER GROUPING SHALL CONSIST OF (2) 48" ACTIVE FACE GRILLES, AND (1) 48" BLANK SECTION. PERFORMANCE DATA ON PLAN IS LISTED PER 48" SECTION. 2. PROVIDE DIFFUSER WITH BOARDER TYPE 15, FLUSH CONCEALED BOARDER. COLOR SHALL BE SELECTED BY ARCHITECT.								
<b>GENERAL NOTES (APPLY TO ALL ABOVE):</b> A. PROVIDE MOUNTING FRAME TO MATCH CEILING TYPE. VERIFY WITH ARCHITECT'S PLANS PRIOR TO ORDERING. B. REFER TO DIFFUSER TAGS ON PLANS FOR NECK SIZE AND AIRFLOW. C. UNLESS NOTED OTHERWISE, COLOR SHALL BE STANDARD WHITE. D. FOUR-WAY THROW PATTERN FOR SQUARE DIFFUSERS UNLESS NOTED OTHERWISE. E. MAXIMUM NC OF 30 FOR ALL GRILLES, REGISTERS, AND DIFFUSERS. F. MAXIMUM PRESSURE DROP OF 0.1 IN-WG FOR ALL GRILLES, REGISTERS, AND DIFFUSERS.								

FAN SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	CFM	STATIC PRESSURE (IN WG)	DRIVE	BHP	HP	VOLTS	PHASE	NOTES
EF 1	LOREN COOK	ACED	2700	0.20	DIRECT	0.47	0.75	120	1	2,3,4,5
EF 2	LOREN COOK	ACED	200	0.20	DIRECT	0.00	0.05	120	1	2,3,4,5
EF 3	LOREN COOK	GC-422	50	0.10	DIRECT	0.03	0.03	120	1	2,3,6
EF 4	LOREN COOK	GC-422	275	0.20	DIRECT	0.00	0.00	120	1	2,3,6
SF 1	LOREN COOK	SON-D	250	0.00	DIRECT	0.00	0.00	120	1	2,3
VF 1	SKY BLADE	FN1M-1443	0	0.00	DIRECT	1.50	1.35	208	3	1,2
<b>NOTES:</b> 1. PROVIDE 14FT. DIA. 6-BLADE HVLS FAN AND MANUFACTURER'S SINGLE YOKE CONTROLLER. 2. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION. 3. PROVIDE WITH FACTORY INSTALLED AND WIRED DISCONNECT AND SPEED CONTROLLER. 4. PROVIDE TALL ROOF CURB. HEIGHT AS REQUIRED TO PROVIDE 18" CLEARANCE ABOVE FINISHED FLOOR. 5. PROVIDE WITH BACKDRAFT DAMPER, AND INTEGRAL BIRD SCREEN. 6. PROVIDE WITH MANUFACTURER'S ALUMINUM GRILLE.										

PUMP SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	GPM	HEAD	BHP	HP	VOLTS	PHASE	NOTES
HWP 1	TACO	VR15L	37	15	0.36	0.40	120	1	1
HWP 2	TACO	0034e	14	15	0.00	0.00	120	1	1
HWP 3	TACO	0034e	23	19	0.00	0.00	120	1	1
<b>NOTES:</b> 1. PUMP SHALL HAVE INTEGRAL VFD/ECM MOTOR AND SMART CONTROL. PUMPS SHALL BE SET FOR CONSTANT VOLUME OPERATION									
<b>GENERAL NOTES (APPLY TO ALL ABOVE):</b> A. FLUID IS 30% PROPYLENE GLYCOL. B. ALL PUMPS SHALL BE NON-OVERLOADING.									

HOOD & LOUVER SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	SERVICE	SIZE		AIRFLOW CFM	MIN. FREE AREA (S.F.)	MAX. PD INCHES WC	NOTES
				W	H				
IH 1	GREENHECK	GRS1-8	INTAKE	10 1/2"	10 1/2"	250	0.35	0.08	
LV 1	RUSKIN	ELC-6375DAX	INTAKE	24"	48"	2700	4.09	0.15	1
<b>NOTES:</b> 1. PROVIDE COMBINATION LOUVER/DAMPER. DAMPER SHALL BE CONTROLLED WITH EF-1 FAN OPERATION.									
<b>GENERAL NOTES (APPLY TO ALL ABOVE):</b> A. PROVIDE MOUNTING FRAME TO MATCH CONSTRUCTION. B. COLOR TO BE SELECTED BY CONTRACTOR FROM MANUFACTURER'S STANDARD COLORS. C. PROVIDE ALL FASTENERS, HANGERS, AND ASSOCIATED DEVICES REQUIRED FOR COMPLETE INSTALLATION.									

ELECTRIC UNIT HEATER SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	SUPPLY CFM	ELEMENT KW	ELECTRICAL DATA				NOTES
					VOLTS	PHASE	FLA	MOCP (A)	
EW1	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW2	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW3	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW4	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW5	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW6	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW7	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW8	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW9	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
EW10	QMARK	AWH3150F	100	1.5	120	1	15.6	20	1,2
UH 1	QMARK	MUH0381-PRO	350	3.0	208	1	14.5	20	1,3,4
UH 2	QMARK	MUH0381-PRO	350	3.0	208	1	14.5	20	1,3,4
<b>NOTES:</b> 1. PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED DISCONNECT FOR A SINGLE-POINT ELECTRICAL CONNECTION. 2. PROVIDE A UNIT-MOUNTED, FACTORY WIRED THERMOSTAT. 3. PROVIDE MANUFACTURER'S STANDARD 24V WALL-MOUNTED THERMOSTAT. 4. PROVIDE WITH MANUFACTURER'S STANDARD LOUVER AND CEILING MOUNTING BRACKET.									
<b>GENERAL NOTES:</b> A. ELECTRIC HEAT KW SHOWN IS ACTUAL OUTPUT AT THE VOLTAGE SHOWN. B. CABINET COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLOR.									

VRF INDOOR UNIT SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	UNIT TYPE	DOAS AIR CFM	SUPPLY AIR CFM	COOLING TOTAL BTUH	COOLING SENSIBLE BTUH	HEATING BTUH	ELECTRICAL DATA			
									VOLTS	PHASE	MCA	MOCP (A)
VRU 106	TRANE	TPLFYP015FM140A	24x24 Cassette	0	390	14747.0	9037.0	11548.0	208	1	0.4	15
VRU 108	TRANE	TPLFYP008FM140A	24x24 Cassette	20	315	7865.0	5509.0	6114.0	208	1	0.3	15
VRU 116	TRANE	TPLFYP024EM140A	36x36 Cassette	0	810	24000.0	17100.0	27000.0	208	1	0.4	15
VRU 117	TRANE	TPLFYP024EM140A	36x36 Cassette	0	810	24000.0	17100.0	27000.0	208	1	0.4	15
VRU 122	TRANE	TPLFYP018FM140A	24x24 Cassette	0	460	17696.0	10869.0	13586.0	208	1	0.5	15
VRU 200	TRANE	TPEFYP015MA144A	CONCEALED	0	494	14747.0	10108.0	11548.0	208	1	2.9	15
VRU 201A	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15
VRU 201B	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15
VRU 202	TRANE	TPLFYP008FM140A	24x24 Cassette	25	315	7865.0	5509.0	6114.0	208	1	0.3	15
VRU 203	TRANE	TPLFYP008FM140A	24x24 Cassette	25	315	7865.0	5509.0	6114.0	208	1	0.3	15
VRU 205	TRANE	TPEFYP005FM140A	24x24 Cassette	0	280	4916.0	3819.0	3804.0	208	1	0.2	15
VRU 208	TRANE	TPLFYP012FM140A	24x24 Cassette	25	335	11797.0	7347.0	9171.0	208	1	0.3	15
VRU 209	TRANE	TPLFYP012FM140A	24x24 Cassette	25	335	11797.0	7347.0	9171.0	208	1	0.3	15
VRU 210	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15
VRU 211	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15
VRU 212	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15
VRU 213	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15
<b>NOTES:</b> 1. PROVIDE UNIT WITH FBM2-2-A FILTER BOX. 2. CONNECT DOAS SUPPLY AIR TO EQUIPMENT OUTSIDE AIR DUCT CONNECTION. PROVIDE REDUCER AT CONNECTION AS REQUIRED.												
<b>GENERAL NOTES:</b> A. INDOOR UNIT CAPACITIES BASED ON INDOOR SPACE CONDITIONS: SUMMER = 75F/55%RH, WINTER = 70F B. MANUFACTURER TO SIZE REFRIGERANT PIPING AND CALCULATE REFRIGERANT VOLUME REQUIRED. PROVIDE DIAGRAMS WITH SUBMITTALS. C. PROVIDE MANUFACTURER'S BASIC THERMOSTATS AND CENTRAL CONTROLLER. PROVIDE WITH WEB-INTERFACE CAPABILITY. D. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE PUMP. E. PROVIDE 3/4" CONDENSATE LINE UNLESS OTHERWISE NOTED.												

VRF OUTDOOR UNIT SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	CORRECTED COOLING BTUH	CORRECTED HEATING BTUH	FIELD REFRIGERANT CHARGE (lbs)	ELECTRICAL DATA						NOTES
						VOLTS	PHASE	UNIT #1		UNIT #2		
								MCA	MOCP (A)	MCA	MOCP (A)	
VRF 1	TRANE	TURYH1443BN40AN	143867.0	135184.0	33.1	208	3	38.0 A	60 A	38.0 A	60 A	1
<b>NOTES:</b> 1. PROVIDE FACTORY INSTALLED PHASE MONITOR.												
<b>GENERAL NOTES:</b> A. OUTDOOR UNIT CAPACITIES BASED ON AMBIENT TEMPERATURES: SUMMER = 105F, WINTER - 10F B. MANUFACTURER TO SIZE REFRIGERANT PIPING AND CALCULATE REFRIGERANT VOLUME REQUIRED. PROVIDE DIAGRAMS WITH SUBMITTALS. C. PROVIDE MANUFACTURER'S BASIC THERMOSTATS AND CENTRAL CONTROLLER. D. PROVIDE OUTDOOR UNIT WITH MANUFACTURER'S LOW AMBIENT KIT. E. MOUNT UNITS ON STRUCTURAL STEEL BASE AT LEAST 24" ABOVE ROOF - QUICKSLING VRF SUPERSTAND OR EQUIVALENT F. PROVIDE TOP HOOD ACCESSORY, AND HAIL GUARDS.												

BOILER SCHEDULE

EQUIPMENT MARK	MANUFACTURER	MODEL	GAS LOAD (BTU/H)		FLOW (GPM)	WATER TEMPERATURE (°F)		ELECTRICAL DATA			
			INPUT	OUTPUT		ENTERING	LEAVING	VOLTS	PHASE	MCA	MOCP (A)
B 1	AERCO	AM 399-500	500.0	495.0	33.0	80	110	120	1	2.25	15
GENERAL NOTES:											
A. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT.											
B. PROVIDE LOW WATER CUTOFF WITH MANUAL RESET.											
C. PROVIDE ASME RELIEF VALVE.											
D. FUEL SOURCE IS NATURAL GAS											
E. OUTPUT SHALL BE BASED ON 40% PROPYLENE GLYCOL.											



FILE PATH: BW 380-118225R21001\_LeesSummitFireStation\_#4 and #5LSMO\_FIRE STATION\_5\_MEP\_V19.rvt

E

D

C

B

A

### HVAC PIPE INSULATION

INSULATION	DESCRIPTION																														
TYPE 1	FIBER GLASS RIGID MOLDED INSULATION - JOHNS-MANVILLE MICRO-LOK, ASJ JACKET, K-VALUE = 0.23, MAX SERVICE TEMP = 850F VAPOR TRANSMISSION = 0.02 PERMS MAX, COMPLIES WITH ASTM C 547, CLASS 3, AND ASTM C1136 TYPE 1																														
TYPE 2	ARMACELL AP/ARMAFLEX SS FOAM INSULATION, 3.0-6.0 PCF, K-VALUE = 0.25, MAX SERVICE TEMP. = 180F VAPOR PERMEABILITY = 0.05 PERM-IN COMPLIES WITH ASTM C534, TYPE 1, ASTM C1338 AND ASTM G22																														
TYPE 3	PVC JACKETS, HIGH-IMPACT-RESISTANT, UV-RESISTANT, 30 MILS THICK, 1" OVERLAP AT LONGITUDINAL SEAMS AND END JOINTS COMPLIES WITH ASTM D 1784 AND CLASS 16354-C																														
TYPE 4	ALUMINUM JACKETS, 0.016" THICK, EMBOSSED FINISH, LONGITUDINAL SLIP JOINTS AND 2" LAPS COMPLIES WITH ASTM B 209																														
TYPE 5	ISULATED PIPE SUPPORTS, 360° PRE-MOLDED PIPE SUPPORTS, VAPOR BARRIER AND GALVANIZED STEEL SHIELD, FOR > 1 1/2" PIPES MINIMUM COMPRESSIVE STRENGTH: 100 PSIG FOR PIPE SIZE < 6", 450 PSIG FOR PIPE SIZE 6" AND LARGER																														
INSULATED PIPE SUPPORTS																															
	<table><tr><th>PIPE SIZE</th><th>INSERT LENGTH</th><th>SHIELD LENGTH</th><th>SHIELD GAUGE</th><th>INSULATION</th><th>...</th></tr><tr><td>1 1/2" TO 5"</td><td>6"</td><td>4"</td><td>20</td><td>TYPE 5</td><td>4</td></tr><tr><td>6" TO 8"</td><td>9"</td><td>6"</td><td>16</td><td>TYPE 5</td><td>4</td></tr><tr><td>10" TO 12"</td><td>9"</td><td>6"</td><td>14</td><td>TYPE 5</td><td>4</td></tr><tr><td>14" AND LARGER</td><td>12"</td><td>10"</td><td>12</td><td>TYPE 5</td><td>4</td></tr></table>	PIPE SIZE	INSERT LENGTH	SHIELD LENGTH	SHIELD GAUGE	INSULATION	...	1 1/2" TO 5"	6"	4"	20	TYPE 5	4	6" TO 8"	9"	6"	16	TYPE 5	4	10" TO 12"	9"	6"	14	TYPE 5	4	14" AND LARGER	12"	10"	12	TYPE 5	4
PIPE SIZE	INSERT LENGTH	SHIELD LENGTH	SHIELD GAUGE	INSULATION	...																										
1 1/2" TO 5"	6"	4"	20	TYPE 5	4																										
6" TO 8"	9"	6"	16	TYPE 5	4																										
10" TO 12"	9"	6"	14	TYPE 5	4																										
14" AND LARGER	12"	10"	12	TYPE 5	4																										
INSULATION THICKNESS FOR PIPES LOCATED WITHIN THE BUILDING THERMAL ENVELOPE																															
PIPING SYSTEM	CONTINUOUS VAPOR BARRIER	PIPE SIZE				INSULATION	...																								
		< 1 1/2"	1 1/2" - 4"	5" - 6"	>= 8"																										
HWS & HWR	NO	1 1/2"	2"	2"	2"	TYPE 1	1																								
COOL COIL...	YES	1/2"	1/2"	1/2"	1/2"	TYPE 2	2																								
REFRIG SUCTION	YES	3/4"	3/4"	3/4"	3/4"	TYPE 2	2																								
INSULATION THICKNESS FOR PIPES LOCATED OUTSIDE THE BUILDING THERMAL ENVELOPE																															
PIPING SYSTEM	CONTINUOUS VAPOR BARRIER	PIPE SIZE				INSULATION	...																								
		<= 1 1/2"	2" - 4"	5" - 6"	>= 8"																										
HWS & HWR	NO	1 1/2"	2"	2"	2"	TYPE 1,4	1																								
COOL COIL.....	YES	1/2"	1/2"	1/2"	1/2"	TYPE 2	2																								
REFRIG SUCTION	YES	3/4"	3/4"	3/4"	3/4"	TYPE 2,4	2																								
NOTES:																															
1.		ALL FITTINGS, VALVES, TEES, FLANGES, CONNECTIONS, ETC. SHALL BE INSULATED AND COVERED WITH THE APPROPRIATE PVC INSULATED FITTING COVERS. FITTING COVERS SHALL MATCH PVC JACKETS. (FOR FIBER GLASS INSULATION)																													
2.		ALL FITTINGS, VALVES, TEES, FLANGES, CONNECTIONS, ETC. SHALL BE INSULATED AND COVERED WITH THE APPROPRIATE... FACTORY-FABRICATED INSULATION FITTINGS. PROVIDE ARMAFIX PRE-INSULATED PIPE HANGER FITTINGS AT ALL HANGER...																													
3.		SEAL LONGITUDINAL SEAMS, ENG JOINTS AND PROTRUSIONS WITH VAPOR-BARRIER MASTIC AND JOINT SEALANT																													
4.		PIPE INSERT THICKNESS SHALL BE EQUAL TO THE ADJOINING INSULATION THICKNESS																													
GENERAL NOTES: (APPLY ALL TO ABOVE)																															
A.		THE BASIS FOR FIBER GLASS PIPE INSULATION AND FITTING COVERS IS JOHNS-MANVILLE WHICH SHALL REPRESENT THE MINIMUM LEVEL OF CONSTRUCTION. PRODUCTS MANUFACTURED BY OWENS-CORNING AND KNAUF SHALL BE PERMITTED TO BID.																													
B.		THE BASIS FOR FLEXIBLE ELASTOMERIC INSULATION IS ARMACELL WHICH SHALL REPRESENT THE MINIMUM LEVEL OF ... PRODUCTS MANUFACTURED BY AEROFLEX SHALL BE PERMITTED TO BID.																													
C.		INSTALL ALL PIPE INSULATION PER MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.																													
D.		INSTALL INSULATION CONTINUOUSLY THROUGH PENETRATIONS																													

### DUCT INSULATION SCHEDULE

INSULATION	DESCRIPTION				
TYPE 1	WRAP INSULATION - CERTAINTEEDED SOFTTOUCH, TYPE 150, FSK FACED, 1 1/2" THICK, 1.5 PCF, K-VALUE = 0.24, R-VALUE = 6.2, VAPOR TRANSMISSION = 0.02 PERMS MAX. COMPLIES WITH ASTM C553 TYPE II, ASTM C1290 AND ASTM C1338 FUNGI RESISTANCE				
TYPE 2	WRAP INSULATION - CERTAINTEEDED SOFTTOUCH, TYPE 75, FSK FACED, 3" THICK, 0.75 PCF, K-VALUE = 0.31, R-VALUE = 9.6, VAPOR TRANSMISSION = 0.02 PERMS MAX. COMPLIES WITH ASTM C553 TYPE II, ASTM C1290 AND ASTM C1338 FUNGI RESISTANCE				
TYPE 3	ROUND DUCT LINER - CERTAINTEEDED ULTRAROUND DUCT LINER, 1" THICK, K-VALUE = 0.23, R-VALUE = 4.3, NRC = 0.75. COMPLIES WITH ASTM C1071 TYPE I, ASTM G22 BACTERIA RESISTANCE AND ASTM C1338 FUNGI RESISTANCE.				
TYPE 4	DUCT LINER - CERTAINTEEDED TOUGHGARD R DUCT LINER, TYPE 200, 1/2" THICK, 2.0 PCF, K-VALUE = 0.24, R-VALUE = 2.1, NRC = 0.45. COMPLIES WITH ASTM C1071 TYPE I, ASTM G22 BACTERIA RESISTANCE AND ASTM C1338 FUNGI RESISTANCE.				
DUCT WITHIN THE BUILDING THERMAL ENVELOPE					
DUCT TYPE - CONCEALED	INSULATION	NOTES	DUCT TYPE - EXPOSED	INSULATION	NOTES
ROUND LOW PRESSURE SUPPLY AIR	TYPE 1	-	ROUND LOW PRESSURE SUPPLY AIR	TYPE 3	-
ROUND LOW PRESSURE RETURN AIR	NONE	-	ROUND LOW PRESSURE RETURN AIR	NONE	-
ROUND OUTDOOR AIR	TYPE 2	-	ROUND OUTDOOR AIR	TYPE 2	-
ROUND VENTILATION AIR	NONE	-	ROUND VENTILATION AIR	NONE	-
ROUND MIXED AIR	TYPE 1	-	ROUND MIXED AIR	TYPE 1	-
ROUND LOW PRESSURE EXHAUST AIR	NONE	-	ROUND LOW PRESSURE EXHAUST AIR	NONE	-
ROUND LOW PRESSURE RELIEF AIR	TYPE 2	-	ROUND LOW PRESSURE RELIEF AIR	TYPE 2	-
RECTANGULAR LOW PRESSURE SUPPLY AIR	TYPE 1	-	RECTANGULAR LOW PRESSURE SUPPLY AIR	TYPE 1	-
RECTANGULAR LOW PRESSURE RETURN AIR	NONE	-	RECTANGULAR LOW PRESSURE RETURN AIR	NONE	-
RECTANGULAR OUTDOOR AIR	TYPE 2	-	RECTANGULAR OUTDOOR AIR	TYPE 2	-
RECTANGULAR VENTILATION AIR	NONE	-	RECTANGULAR VENTILATION AIR	NONE	-
RECTANGULAR MIXED AIR	TYPE 1	-	RECTANGULAR MIXED AIR	TYPE 1	-
RECTANGULAR LOW PRESSURE EXHAUST AIR	NONE	-	RECTANGULAR LOW PRESSURE EXHAUST AIR	NONE	-
RECTANGULAR LOW PRESSURE RELIEF AIR	TYPE 2	-	RECTANGULAR LOW PRESSURE RELIEF AIR	TYPE 2	-
DUCT OUTSIDE THE BUILDING THERMAL ENVELOPE					
DUCT TYPE - CONCEALED	INSULATION	NOTES	DUCT TYPE - EXPOSED	INSULATION	NOTES
ROUND LOW PRESSURE SUPPLY AIR	TYPE 2	-	ROUND LOW PRESSURE SUPPLY AIR	TYPE 2	-
ROUND LOW PRESSURE RETURN AIR	TYPE 2	-	ROUND LOW PRESSURE RETURN AIR	TYPE 2	-
ROUND OUTDOOR AIR	TYPE 1	-	ROUND OUTDOOR AIR	TYPE 1	-
ROUND VENTILATION AIR	TYPE 2	-	ROUND VENTILATION AIR	NONE	-
ROUND MIXED AIR	TYPE 2	-	ROUND MIXED AIR	TYPE 2	-
ROUND LOW PRESSURE EXHAUST AIR	TYPE 1	-	ROUND LOW PRESSURE EXHAUST AIR	TYPE 1	-
ROUND LOW PRESSURE RELIEF AIR	NONE	-	ROUND LOW PRESSURE RELIEF AIR	NONE	-
RECTANGULAR LOW PRESSURE SUPPLY AIR	TYPE 2	-	RECTANGULAR LOW PRESSURE SUPPLY AIR	TYPE 2	-
RECTANGULAR LOW PRESSURE RETURN AIR	TYPE 2	-	RECTANGULAR LOW PRESSURE RETURN AIR	TYPE 2	-
RECTANGULAR OUTDOOR AIR	TYPE 1	-	RECTANGULAR OUTDOOR AIR	TYPE 2	-
RECTANGULAR VENTILATION AIR	TYPE 2	-	RECTANGULAR VENTILATION AIR	NONE	-
RECTANGULAR MIXED AIR	TYPE 2	-	RECTANGULAR MIXED AIR	TYPE 2	-
RECTANGULAR LOW PRESSURE EXHAUST AIR	TYPE 1	-	RECTANGULAR LOW PRESSURE EXHAUST AIR	TYPE 1	-
RECTANGULAR LOW PRESSURE RELIEF AIR	NONE	-	RECTANGULAR LOW PRESSURE RELIEF AIR	NONE	-
ACOUSTICALLY LINED DUCTS					
DUCT TYPE	INSULATION	NOTES	DUCT TYPE	INSULATION	NOTES
RECTANGULAR SUPPLY AIR AT CENTRAL UNIT	TYPE 4	1	RECTANGULAR EXHAUST AIR	TYPE 4	4
RECTANGULAR SUPPLY AIR AT FAN TERMINAL UNIT	TYPE 4	2	RECTANGULAR RETURN AIR BOOTS	TYPE 4	-
RECTANGULAR RETURN AIR AT CENTRAL UNIT	TYPE 4	3	RECTANGULAR RETURN AIR TRANSFERS	TYPE 4	-
NOTES:					
1. THE VERTICAL DUCTWORK FROM THE UNIT DISCHARGE TO HORIZONTAL AND THE FIRST 10 FEET OF HORIZONTAL DUCTWORK IN ALL DIRECTIONS (TYPICAL FOR CENTRAL AHU, RTU, MAU, DOAU, ETC.)					
2. THE FIRST 10 FEET OF DUCTWORK FROM THE FAN TERMINAL OUTLET.					
3. THE VERTICAL DUCTWORK FROM THE UNIT INLET TO HORIZONTAL AND THE FIRST 10 FEET OF HORIZONTAL DUCTWORK IN ALL DIRECTIONS (TYPICAL FOR CENTRAL AHU, RTU, MAU, DOAU, ETC.)					
4. THE FIRST 10 FEET OF DUCTWORK FROM THE EXHAUST FAN INLET.					
GENERAL NOTES (APPLY ALL TO ABOVE):					
A. THE BASIS FOR THE DUCT INSULATION IN THIS SCHEDULE IS CERTAIN-TEED WHICH SHALL REPRESENT THE MINIMUM LEVEL OF CONSTRUCTION. PRODUCTS MANUFACTURED BY OWENS-CORNING, JOHNS-MANSVILLE, KNAUF, 3M, FIREMASTER AND AEROFLEX SHALL BE PERMITTED TO BID.					
B. REFER TO FLOOR PLANS AS ADDITIONAL INSULATION REQUIREMENTS MAY BE INDICATED THERE.					
C. THE REQUIREMENT FOR ACOUSTICAL INSULATION IS IN ADDITION TO THE THERMAL INSULATION REQUIREMENT. PROVIDE EXTERNAL THERMAL INSULATION AND INTERNAL ACOUSTICAL LINER AS INDICATED.					
D. INSTALL ALL DUCT INSULATION PER MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.					
DEFINITIONS:					
SUPPLY AIR: CONDITIONED AIR FROM AN AIR HANDLING SYSTEM TO AN OCCUPIED SPACE					
RETURN AIR: AIR FROM AN OCCUPIED SPACE BACK TO AN AIR HANDLING SYSTEM					
VENTILATION AIR: CONDITIONED AIR FROM THE DISCHARGE OF THE DOAS TO THE OCCUPIED SPACE					
RELIEF AIR: AIR DOWNSTREAM OF THE DOAS/ERW ENERGY RECOVERY SYSTEM TO OUTSIDE THE BUILDING					
OUTSIDE AIR: UNCONDITIONED AIR FROM OUTSIDE THE BUILDING TO AN AIR HANDLING SYSTEM					
EXHAUST AIR: AIR THAT IS REMOVED FROM A BUILDING SPACE AND CONVEYED TO OUTSIDE THE BUILDING					
LOW PRESSURE: LESS THAN 2" STATIC PRESSURE					
CONCEALED LOCATION: DUCT IS LOCATED ABOVE A CEILING, WITHIN CHASE OR SHAFT, ETC.					
EXPOSED LOCATION: DUCT IS NOT CONCEALED WITH THE BUILDING CONSTRUCTION (FINISHED SPACES, OR UNFINISHED SUCH AS MECHANICAL ROOMS)					



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PROJECT NO:	18225R21001
DATE:	10.20.2022
DRAWN BY:	JL
CHK'D BY:	NB

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**MECHANICAL SCHEDULES**

**M402**



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## PLUMBING MASTER SYMBOLS LEGEND

STANDARD MOUNTING HEIGHTS	PIPE FITTINGS AND VALVES
REFER TO ARCHITECTURAL ELEVATIONS FOR PLUMBING FIXTURE MOUNTING HEIGHTS, UNO.	SHUT-OFF VALVE
WALL CLEANOUT TOILET COLD WATER SUPPLY ROUGH-IN HOSE BIBBS	CHECK VALVE
12" AFF 12" AFF 36" AFF TO CENTER	SHUT-OFF VALVE
ANNOTATIONS	TRIPLE DUTY VALVE
INDICATES CONNECTION TO EXISTING SYSTEM	SOLENOID VALVE
INDICATES DEMO FROM EXISTING SYSTEM	STRAINER
PLAN NOTE REFERENCE	STRAINER WITH BLOWOFF
DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER	TWO-WAY CONTROL VALVE
SECTION REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER	TWO-WAY CONTROL VALVE
MECHANICAL EQUIPMENT DESIGNATION	PRESSURE REDUCING VALVE
PLUMBING EQUIPMENT DESIGNATION w/ WASTE CONNECTION SIZE	PRESSURE GAUGE
ABBREVIATIONS	THERMOMETER
AD ACCESS DOOR	BACKFLOW PREVENTER
ADA AMERICANS WITH DISABILITIES ACT	EXPANSION JOINT
AFF ABOVE FINISHED FLOOR	PIPE ANCHOR
AFG ABOVE FINISHED GRADE	UNION
AHJ AUTHORITY HAVING JURISDICTION	REDUCER
BAS BUILDING AUTOMATION SYSTEM	CAP
BFF BELOW FINISHED FLOOR	ELBOW UP
BFG BELOW FINISHED GRADE	ELBOW DOWN
BOP BOTTOM OF PIPE	TEE UP
BOS BOTTOM OF STRUCTURE	TEE DOWN
CP CONDENSATE PUMP	SIAMESE CONNECTION
DEMO DEMOLITION	PIPING
DFU DRAINAGE FIXTURE UNIT	WASTE LINE ABOVE FLOOR
DN DOWN	WASTE LINE BELOW FLOOR
DS DOWNSPOUT	GREASE WASTE LINE ABOVE FLOOR
ETR EXISTING TO REMAIN	GREASE WASTE LINE BELOW FLOOR
EWC ELECTRIC WATER COOLER	VENT LINE
FD FLOOR DRAIN	DOMESTIC COLD WATER
FFA FROM FLOOR ABOVE	DOMESTIC HOT WATER
FFB FROM FLOOR BELOW	DOMESTIC HOT WATER RECIRC.
FL FLOW LINE	DOMESTIC TEMPERED HOT WATER
FLA FULL LOAD AMPS	140 DEGREE DOMESTIC HOT WATER
FR FROM	ROOF DRAIN ABOVE FLOOR
GPM GALLONS PER MINUTE	ROOF DRAIN BELOW FLOOR
HD HEAD, HUB DRAIN	ACID WASTE ABOVE FLOOR
IE INVERT ELEVATION	ACID WASTE BELOW FLOOR
IN WC INCHES OF WATER COLUMN	ACID VENT BELOW FLOOR
MBH 1000 BTU PER HOUR	COMPRESSED AIR
MH MANHOLE	NATURAL GAS
N/A NOT APPLICABLE	DOMESTIC WATER SERVICE
NIC NOT IN CONTRACT	CONDENSATE DRAIN
N/O, N/C NORMALLY OPEN, NORMALLY CLOSED	PLUMBING EQUIPMENT
ORD OVERFLOW ROOF DRAIN	FLUSH FLOOR CLEANOUT
PROVIDE FURNISH AND INSTALL	FLUSH GRADE CLEANOUT
PRV PRESSURE REDUCING VALVE	WALL CLEANOUT
PSI POUNDS PER SQUARE INCH	ROOF DRAIN
QTY QUANTITY	FLUSH DRAIN
RCP REINFORCED CONCRETE PIPE	FLOOR SINK
RD ROOF DRAIN	HOSE BIB
SF SQUARE FEET	WALL HYDRANT
SP SUMP PUMP	PLUMBING FIXTURE (REFER TO SCHEDULE)
SS STAINLESS STEEL, SERVICE SINK, SANITARY SEWER	
STM STEAM	
TDH TOTAL DYNAMIC HEAD	
TFA TO FLOOR ABOVE	
TFB TO FLOOR BELOW	
UL UNDERWRITERS LABORATORIES	
UNO UNLESS NOTED OTHERWISE	
VFD VARIABLE FREQUENCY DRIVE	
VS VENT STACK	
VTR VENT THROUGH ROOF	
WC WATER COLUMN, WATER CLOSET	
WH WALL HYDRANT	
WS WASTE STACK	
LINETYPE LEGEND	THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS.
EXISTING TO REMAIN	
NEW WORK	
DEMOLISH	

### PLUMBING GENERAL NOTES:

- GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY COMPONENTS AND OFFSETS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.
- COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
- PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW DUCT MOUNTED AIR TERMINAL UNITS, TERMINAL HEATING COILS, OR OTHER EQUIPMENT.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
- COORDINATE THE SHUT DOWN OF ANY EXISTING SERVICES AND/OR EQUIPMENT WITH THE OWNER'S REPRESENTATIVE.
- PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF THE PARAPET.
- PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".
- ALL ROOF DRAIN PIPING SHALL BE ROUTED AT 1/8" FALL PER FOOT. COORDINATE INSTALLATION WITH OTHER TRADES.



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**PLUMBING  
SYMBOLS  
LEGEND**

**P001**

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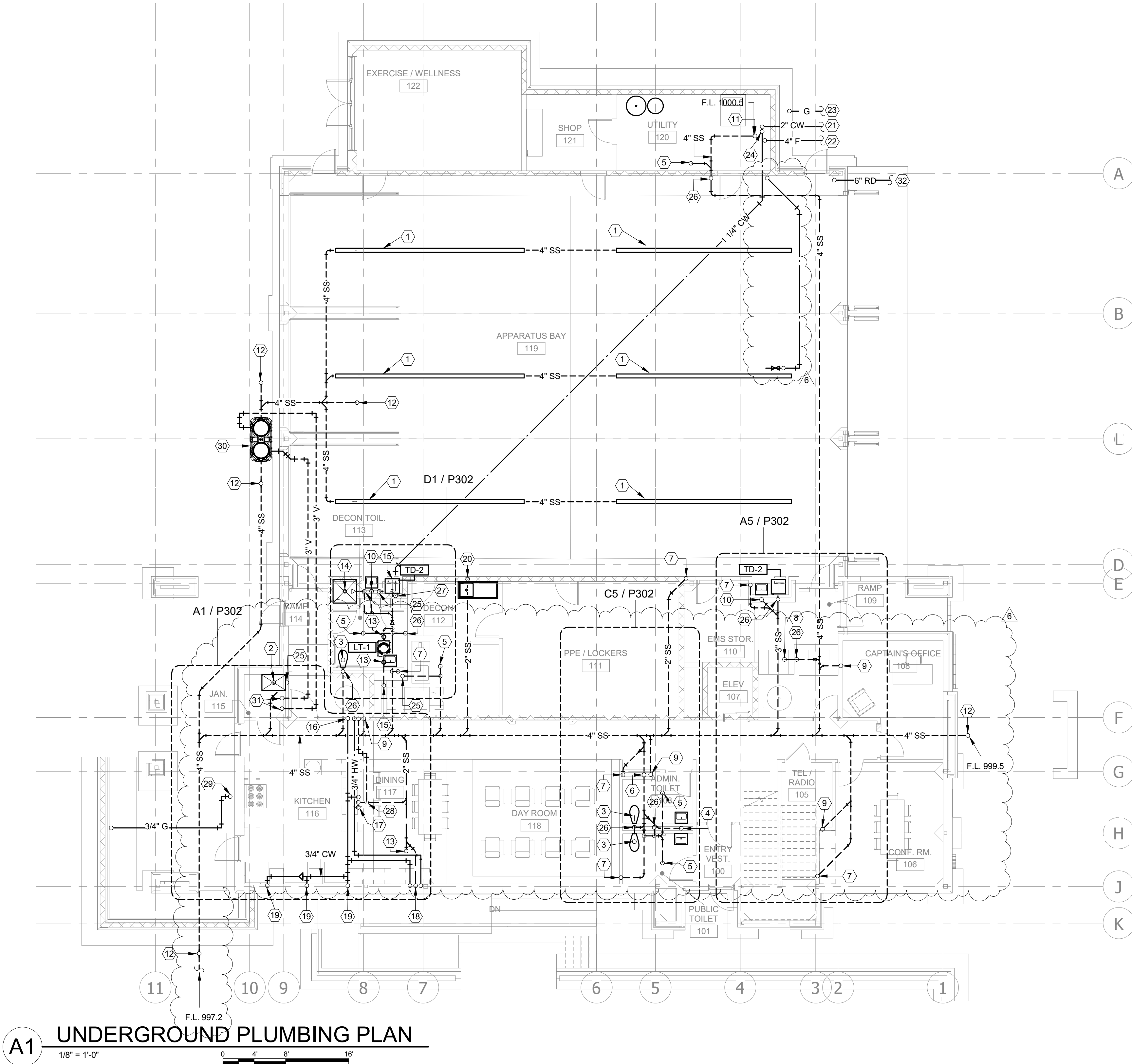
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**PLUMBING PLAN NOTES:**

- 24FT TRENCH DRAIN, REFER TO SPECIFICATIONS.
- 3" TRAPPED WASTE UP TO JANITOR'S SINK.
- 4" WASTE UP TO WATER CLOSET.
- 2" WASTE UP TO LAVATORIES.
- 2" TRAPPED WASTE UP TO FLOOR DRAIN.
- 2" WASTE UP TO DRINKING FOUNTAIN.
- 2" WASTE FROM ABOVE.
- 2" TRAPPED WASTE UP TO FLOOR SINK.
- 4" WASTE FROM ABOVE.
- 2" WASTE UP TO LAVATORY.
- 4" TRAPPED WASTE UP TO FLOOR SINK.
- 4" WASTE UP TO FLOOR GRADE CLEANOUT.
- 2" WASTE UP TO FLOOR CLEANOUT.
- 2" TRAPPED WASTE UP TO SHOWER.
- 2" TRAPPED WASTE UP TO TRENCH DRAIN.
- 3/4" HOT AND 3/4" COLD WATER DOWN FROM ABOVE TO SERVE SINKS.
- 1/2" HOT, 1/2" COLD, AND 2" WASTE UP TO KITCHEN SINK.
- 1/2" HOT, 1/2" COLD, AND 2" WASTE UP TO SINK.
- 1/2" COLD WATER UP TO ICE MAKER BOX.
- 2" WASTE UP TO SINK.
- 2" DOMESTIC WATER SERVICE. REFER TO CIVIL PLANS FOR CONTINUATION.
- 4" FIRE SPRINKLER SERVICE ENTRANCE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- NEW INCOMING GAS SERVICE, REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 1-1/4" COLD WATER FROM ABOVE.
- 1-1/2" VENT UP.
- 2" VENT UP.
- 1-1/4" COLD WATER UP.
- PROVIDE ISLAND VENTING FOR THIS FIXTURE. REFER TO DETAIL.
- 3/4" GAS ROUTED FROM ABOVE TO OUTDOOR GRILL. PROVIDE SHUT-OFF VALVE AT APPLIANCE CONNECTION.
- PROVIDE STRIEM OS-100 100 GPM POLYETHYLENE OIL/SAND SEPARATOR.
- 3" VENT UP.
- 6" STORM DRAIN. REFER TO CIVIL PLANS FOR CONTINUATION.
- 1" COLD WATER DOWN FROM ABOVE.



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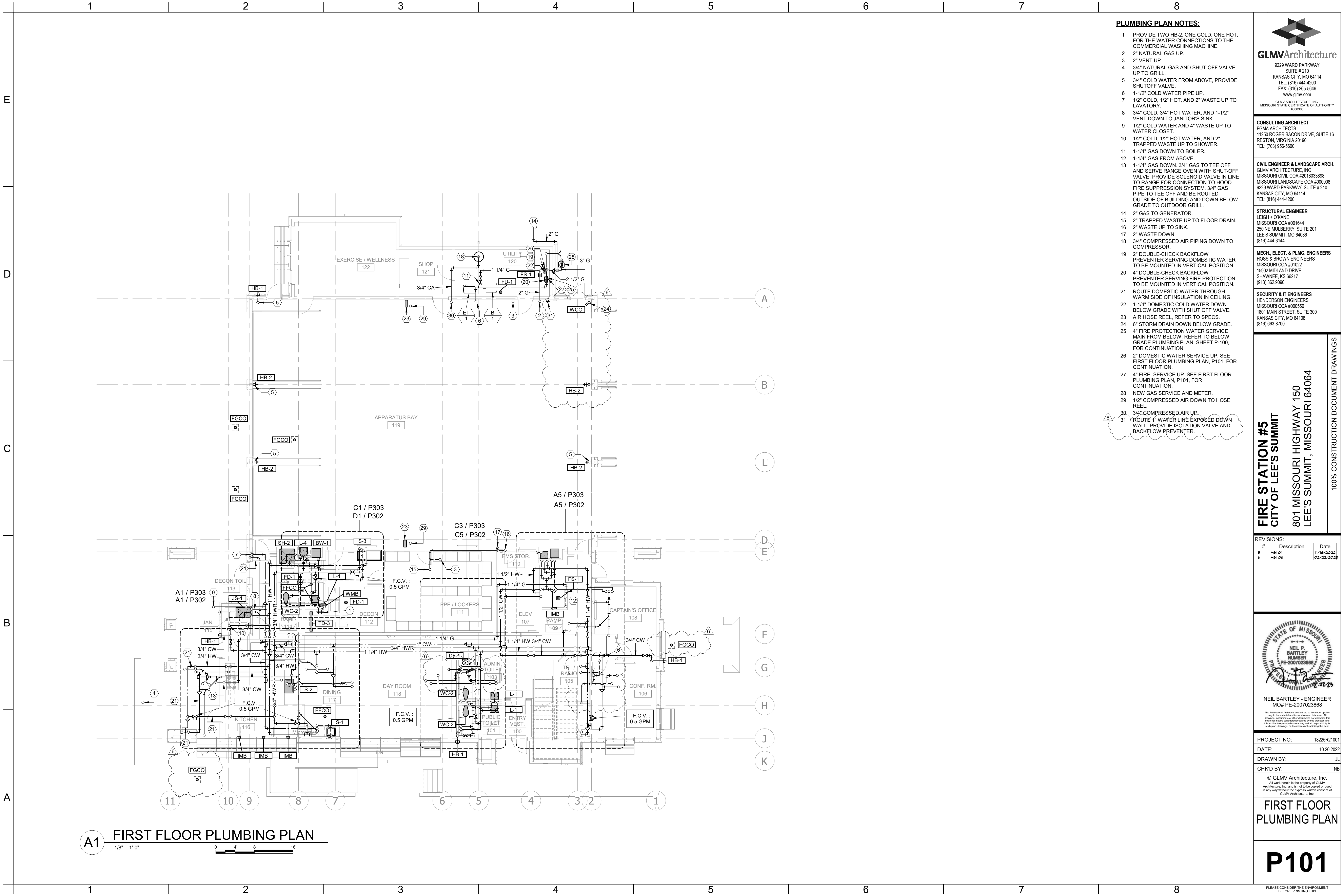
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**UNDERGROUND PLUMBING PLAN**

**P100**

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- PLUMBING PLAN NOTES:**
- 1 PROVIDE TWO HB-2, ONE COLD, ONE HOT, FOR THE WATER CONNECTIONS TO THE COMMERCIAL WASHING MACHINE.
  - 2 2" NATURAL GAS UP.
  - 3 2" VENT UP.
  - 4 3/4" NATURAL GAS AND SHUT-OFF VALVE UP TO GRILL.
  - 5 3/4" COLD WATER FROM ABOVE, PROVIDE SHUTOFF VALVE.
  - 6 1-1/2" COLD WATER PIPE UP.
  - 7 1/2" COLD, 1/2" HOT, AND 2" WASTE UP TO LAVATORY.
  - 8 3/4" COLD, 3/4" HOT WATER, AND 1-1/2" VENT DOWN TO JANITOR'S SINK.
  - 9 1/2" COLD WATER AND 4" WASTE UP TO WATER CLOSET.
  - 10 1/2" COLD, 1/2" HOT WATER, AND 2" TRAPPED WASTE UP TO SHOWER.
  - 11 1-1/4" GAS DOWN TO BOILER.
  - 12 1-1/4" GAS FROM ABOVE.
  - 13 1-1/4" GAS DOWN, 3/4" GAS TO TEE OFF AND SERVE RANGE OVEN WITH SHUT-OFF VALVE. PROVIDE SOLENOID VALVE IN LINE TO RANGE FOR CONNECTION TO HOOD FIRE SUPPRESSION SYSTEM. 3/4" GAS PIPE TO TEE OFF AND BE ROUTED OUTSIDE OF BUILDING AND DOWN BELOW GRADE TO OUTDOOR GRILL.
  - 14 2" GAS TO GENERATOR.
  - 15 2" TRAPPED WASTE UP TO FLOOR DRAIN.
  - 16 2" WASTE UP TO SINK.
  - 17 2" WASTE DOWN.
  - 18 3/4" COMPRESSED AIR PIPING DOWN TO COMPRESSOR.
  - 19 2" DOUBLE-CHECK BACKFLOW PREVENTER SERVING DOMESTIC WATER TO BE MOUNTED IN VERTICAL POSITION.
  - 20 4" DOUBLE-CHECK BACKFLOW PREVENTER SERVING FIRE PROTECTION TO BE MOUNTED IN VERTICAL POSITION.
  - 21 ROUTE DOMESTIC WATER THROUGH WARM SIDE OF INSULATION IN CEILING.
  - 22 1-1/4" DOMESTIC COLD WATER DOWN BELOW GRADE WITH SHUT OFF VALVE. AIR HOSE REEL, REFER TO SPECS.
  - 23 6" STORM DRAIN DOWN BELOW GRADE.
  - 24 4" FIRE PROTECTION WATER SERVICE MAIN FROM BELOW. REFER TO BELOW GRADE PLUMBING PLAN, SHEET P-100, FOR CONTINUATION.
  - 26 2" DOMESTIC WATER SERVICE UP. SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
  - 27 4" FIRE SERVICE UP. SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
  - 28 NEW GAS SERVICE AND METER.
  - 29 1/2" COMPRESSED AIR DOWN TO HOSE REEL.
  - 30 3/4" COMPRESSED AIR UP.
  - 31 ROUTE 1" WATER LINE EXPOSED DOWN WALL. PROVIDE ISOLATION VALVE AND BACKFLOW PREVENTER.

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**FIRE STATION #5**  
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LEE'S SUMMIT, MISSOURI 64064

100% CONSTRUCTION DOCUMENT DRAWINGS

**REVISIONS:**

#	Description	Date
5	AS: C1	11/16/2022
6	AS: C6	02/22/2023

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PROJECT NO: 18225R21001  
DATE: 10.20.2022  
DRAWN BY: JL  
CHK'D BY: NB

**FIRST FLOOR PLUMBING PLAN**

**P101**

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FILE PATH: BM 380://18225R21001\_LeeSummitFireStation\_#4 and #5LSMO\_FIRE STATION\_5\_WEP\_V19.rvt





- 1 1/2" COMPRESSED AIR DOWN TO HOSE REEL.
- 2 3" PIPE UP TO ROOF DRAIN.
- 3 6" PIPE UP TO ROOF DRAIN.
- 4 2" NATURAL GAS FROM BELOW.
- 5 1-1/2" COLD WATER FROM BELOW.
- 6 3/4" COMPRESSED AIR DOWN.
- 7 3/4" COLD WATER DOWN.
- 8 2" GAS UP TO ROOF.
- 9 3/4 COLD WATER UP TO ROOF HYDRANT.
- 10 1/2" COLD, 1/2" HOT WATER, 1-1/2" VENT, AND 2" WASTE TO LAUNDRY SINK.
- 11 2" VENT FROM BELOW.
- 12 6" STORM DRAIN-DOWN-BELOW-GRADE.
- 13 ROUTE 1" WATER LINE EXPOSED DOWN WALL PROVIDE ISOLATION VALVE AND BACKFLOW PREVENTER.

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**FIRE STATION #5**  
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#	Description	Date
6	ADD CB	02/22/2021



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DATE: 10.20.202

DRAWN BY: J

CHK'D BY:	N
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## SECOND FLOOR PLUMBING PLAN

## P102

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SPECIFICATIONS

1. 4" Plain End inlet/outlet, 3" Plain End vents.
2. Max flow rate: 100 GPM
3. Capacities: Liquid: 250 gal. (33.4 cu. ft.); Oil: 144 gal.; Sand: 95 gal.
4. Unit weight with composite cover: 230 lbs.; with cast iron: 346 lbs.
5. Maximum operating temperature 140 °F continuous.
6. Highway rated covers: 16,000 lb. capacity.

NOTES

1. Snap-in Flow control (ships with unit).
2. Seamless medium density polyethylene tank.
3. Unit supplied with built-in adapter for up to 5" of adjustability. Additional riser(s) available for deeper burial depth.
4. Cover placement allows full access to tank for proper maintenance.
5. Narrow footprint allows clearance through doorways and down stairs.
6. Engineered inlet and outlet diffusers are removable to inspect/clean piping.
7. For on-the-floor or buried applications.

DIFFUSION FLOW TECHNOLOGY

The inlet diffuser splits influent into three paths, creating laminar flow and utilizing the entire liquid volume of the tank for efficient oil separation. The calibrated openings greatly reduce influent turbulence. The influent enters the main chamber without disturbing the existing oil or sand layers. The bottom of the outlet diffuser allows only effluent that is free of oil to exit the tank.

ENGINEER SPECIFICATION GUIDE

Striem Oil Reserve™ oil/sand separator model OS-100 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Separator shall be furnished for above or below grade installation, with field adjustable riser system, snap-in flow control and (2) vent connections. Separator flow rate shall be 100 GPM. Separator oil capacity shall be 144 gallons. Sand capacity shall be 95 gallons. Covers shall provide water/gas-tight seal and have a maximum 16,000 lbs load capacity.

THIRD PARTY STRUCTURAL ANALYSIS

The OS-100 has been structurally analyzed in accordance with the requirements of IBC 2012 and ASCE/SEI 7 for direct burial. The maximum burial depth and backfill material are specified in our installation instructions. The structural design has been reviewed and sealed by a professional engineer registered in the state of California. A sealed structural analysis report is available upon request.

OPTIONS

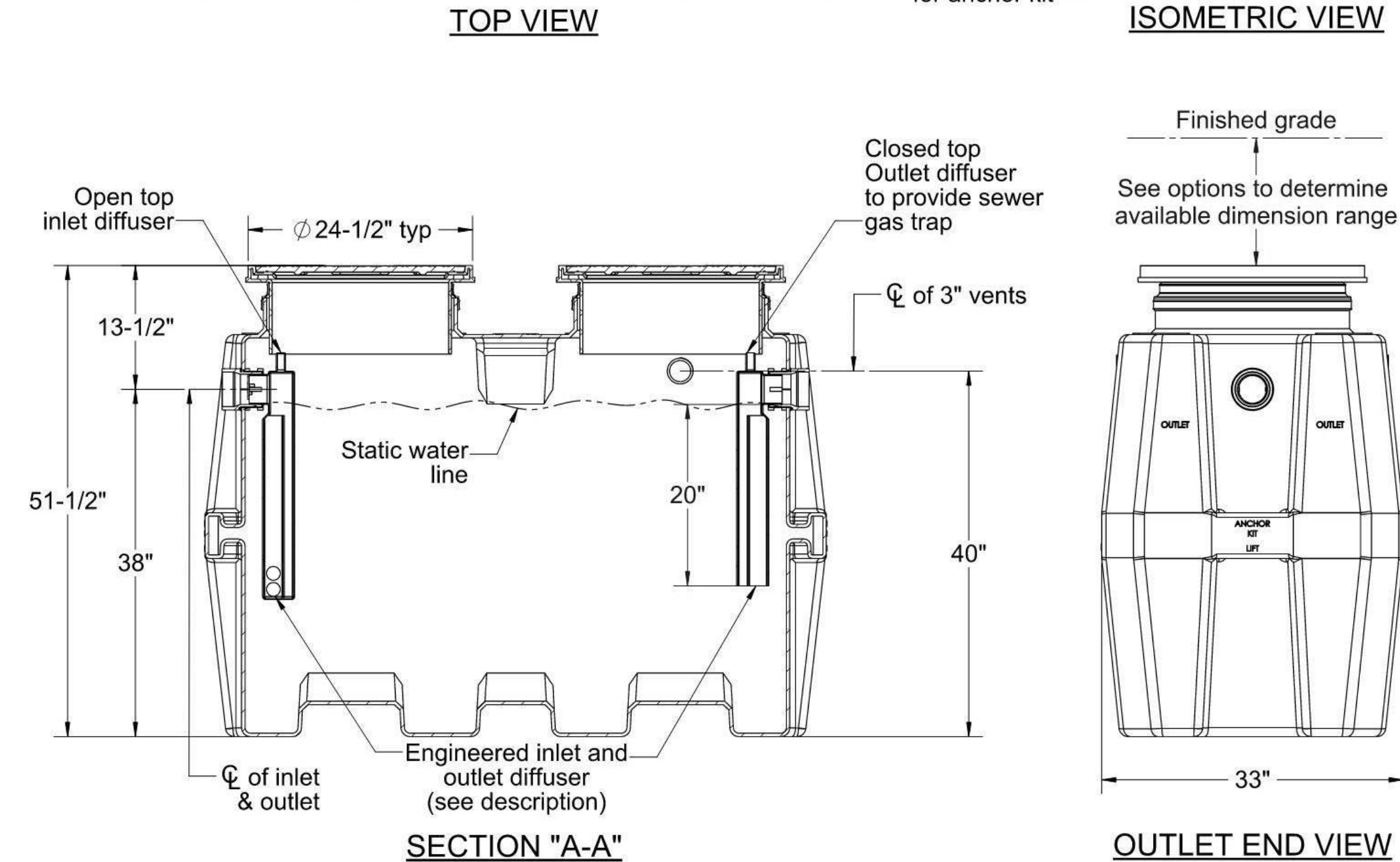
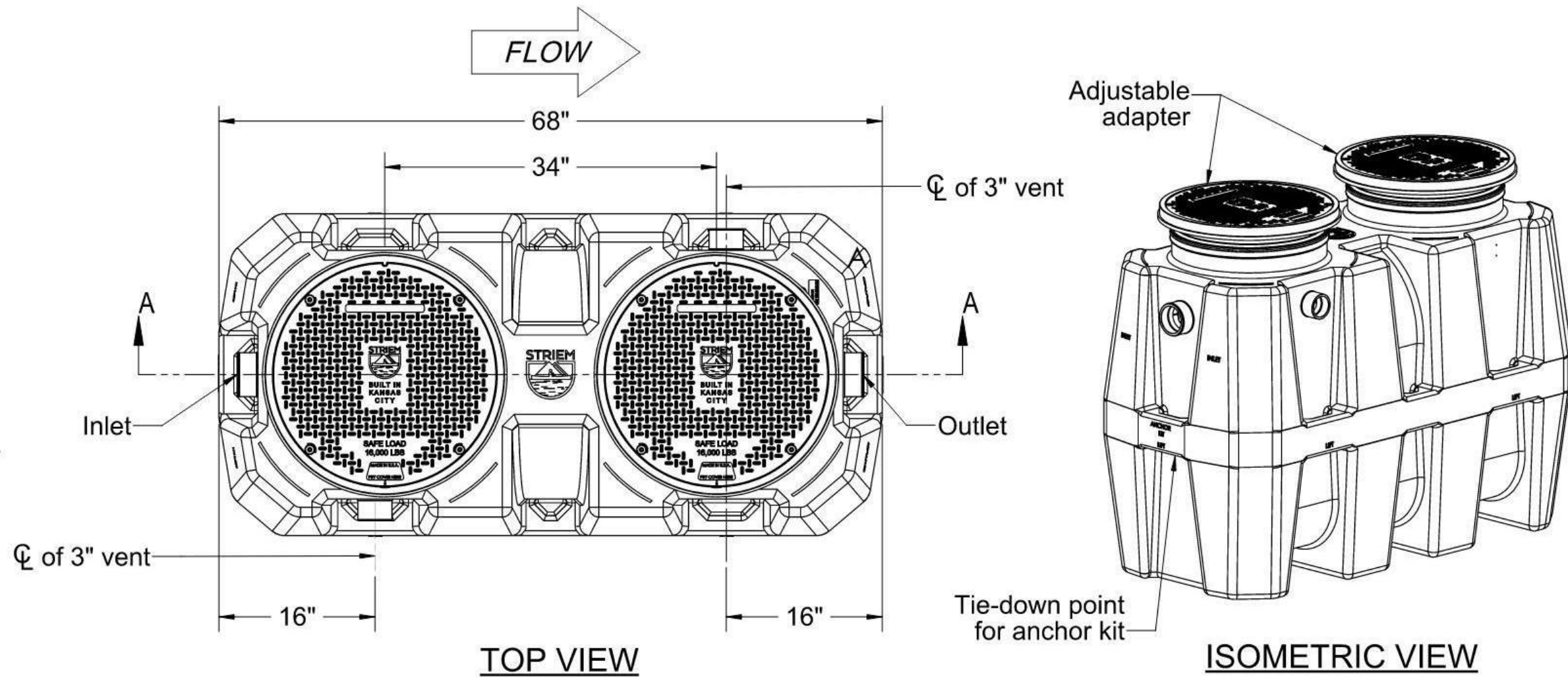
- ☐ 4M - 4" Male Thread Inlet / Outlet
- ☐ 6P - 6" Plain End SCH.40 Inlet / Outlet
- ☐ 6M - 6" Male Thread Inlet / Outlet
- ☐ C24-HP (2) - H20 Rated Pickable Cast Iron Cover
- ☐ CC24 (2) - Integral Membrane Clamping Collar Kit
- ☐ CS3 - Clean Sweep Coalescing Media (single)\*
- ☐ CS6 - Clean Sweep Coalescing Media (double)\*
- ☐ HDK-2 - High Water Anchor Kit

\*Clean Sweep Coalescing Media not compatible with CPRK

RISER OPTIONS

- ☐ SR24 (2) - >5"-24"
  - ☐ LR24 (2) - >24"-39"
  - ☐ SR24 (4) - >39"-43"
  - ☐ SR24 (2) + LR24 (2) - >43"-58"
  - ☐ LR24 (4) - >58"-72"
  - ☐ SR24 (2) + LR24 (4) - >72"-90"
- ☐ CPRK (2) : >11" - 90"
    - Corrugated Pipe Riser Kit.
    - 18" diameter corrugated pipe by others.
    - Used in substitute of SR/LR riser options
    - See CPRK specification for more detail.

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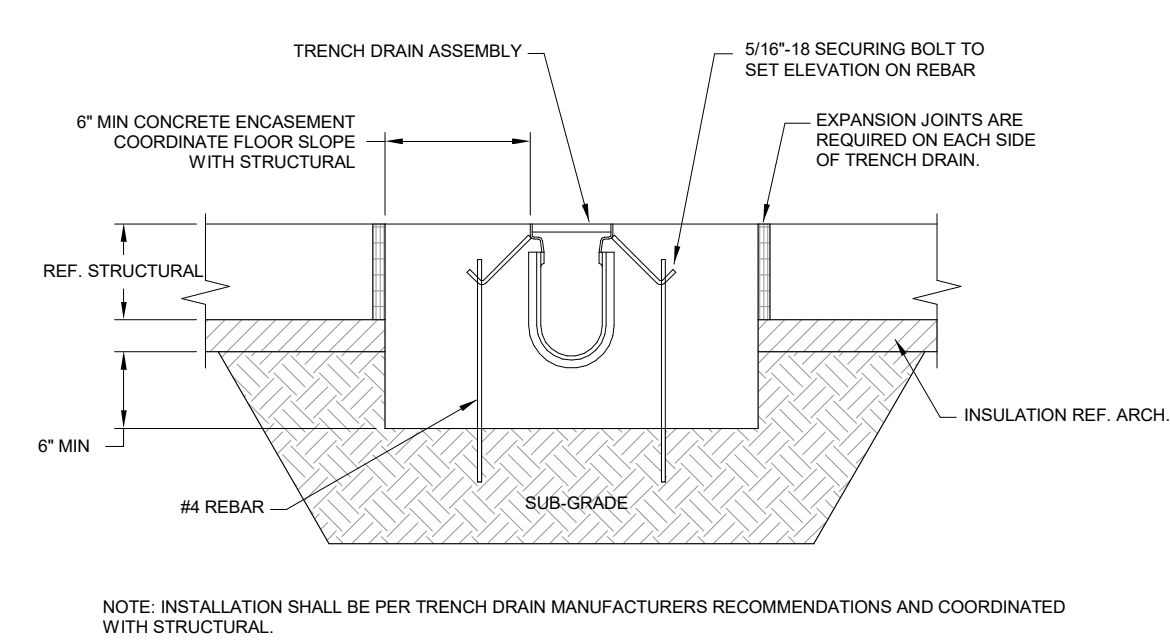


MODEL NUMBER:	OS-100
DESCRIPTION:	100 GPM POLYETHYLENE OIL/SAND SEPARATOR
DWG BY:	MJ
DATE:	12/09/2020
REV:	0
ECO:	

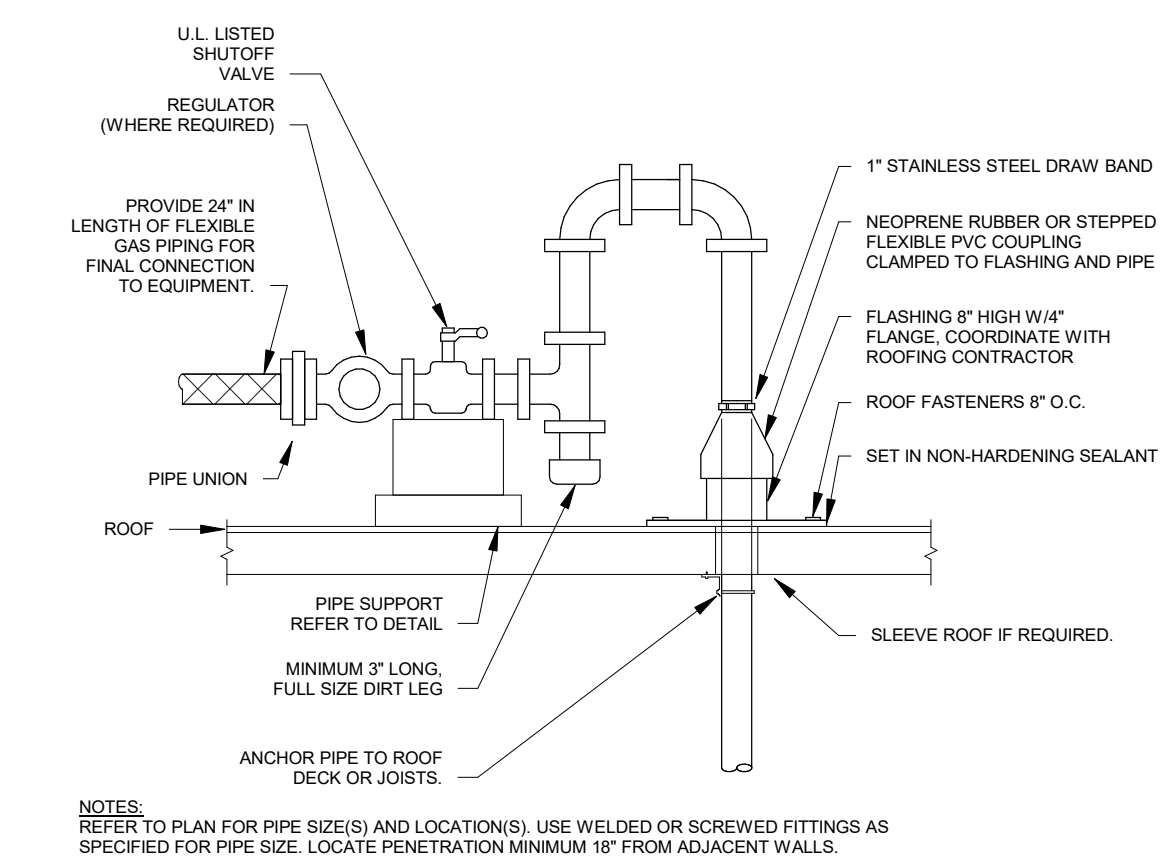
**SPECIFICATION SHEET**

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Kansas City, KS 66115  
Tel: 913-222-1500  
orders@striemco.com  
www.striemco.com

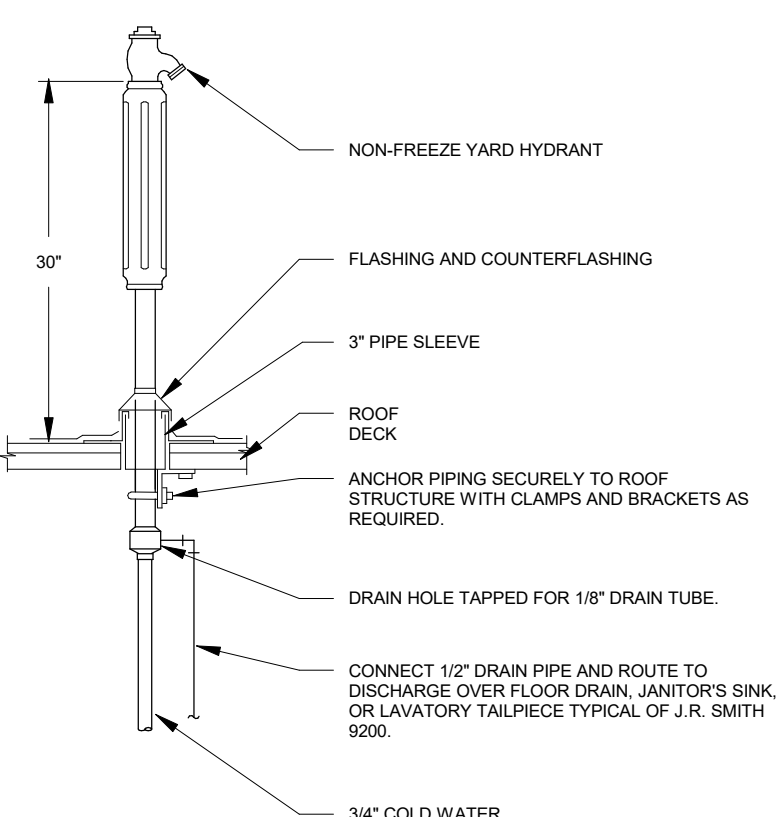
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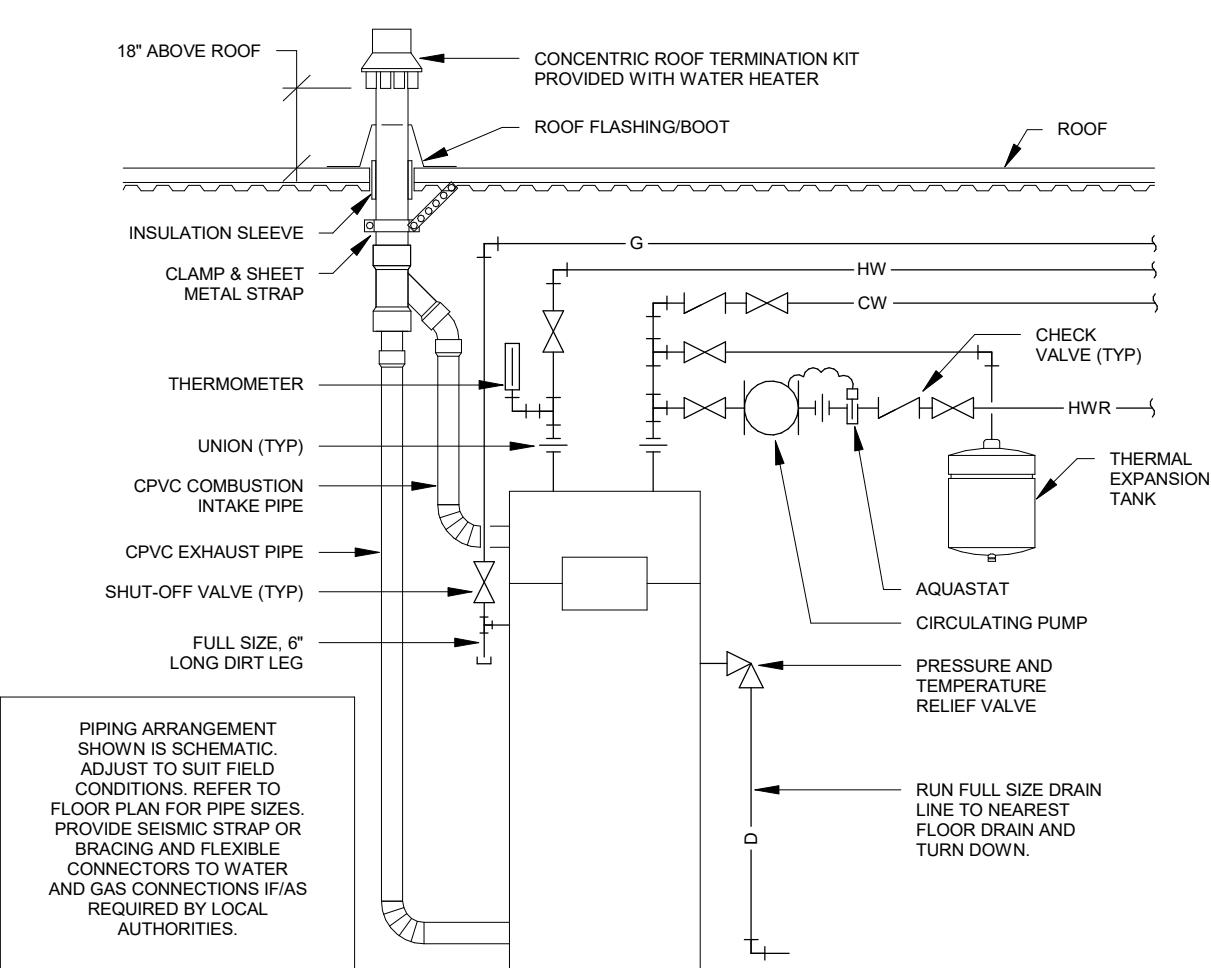
D7 TRENCH DRAIN DETAIL  
NOT TO SCALE



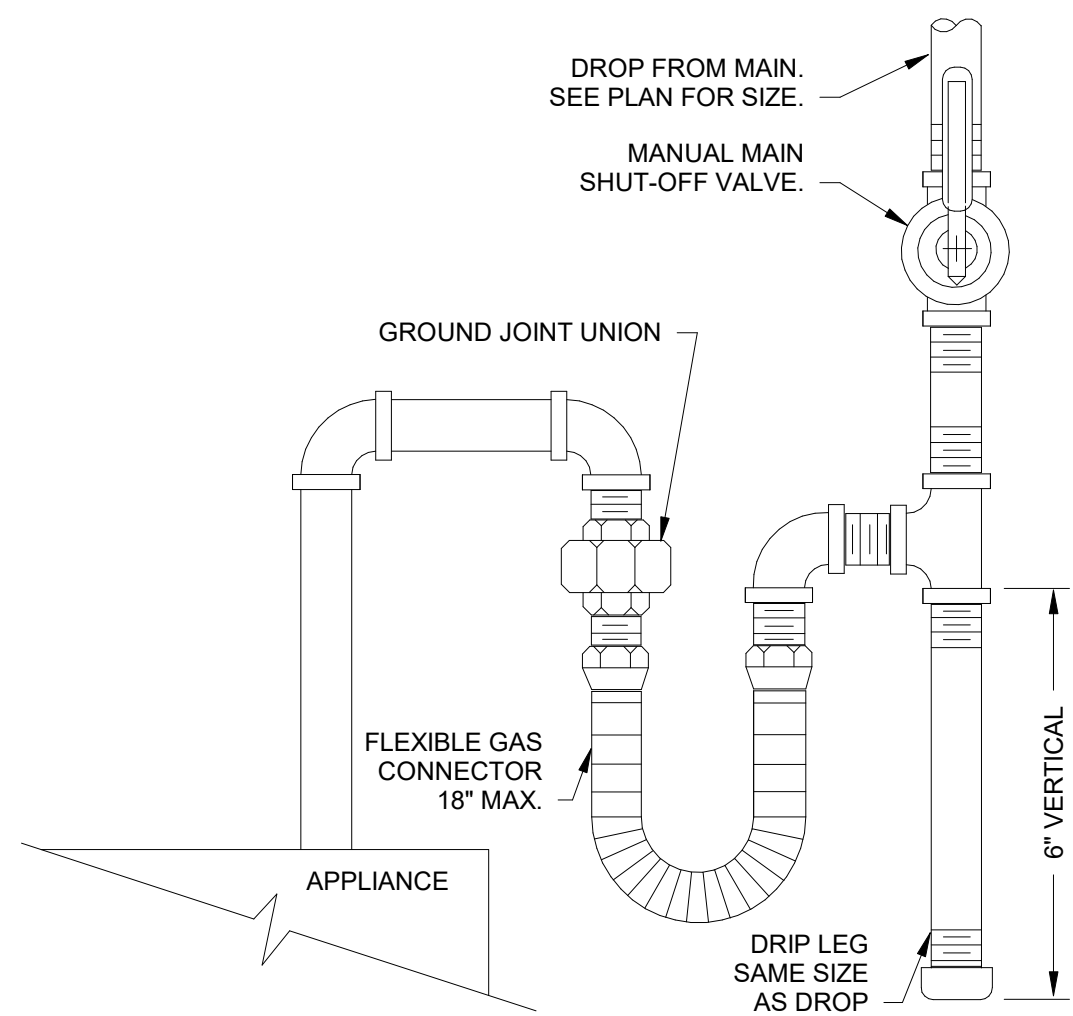
C7 GAS PIPE THRU ROOF  
NOT TO SCALE



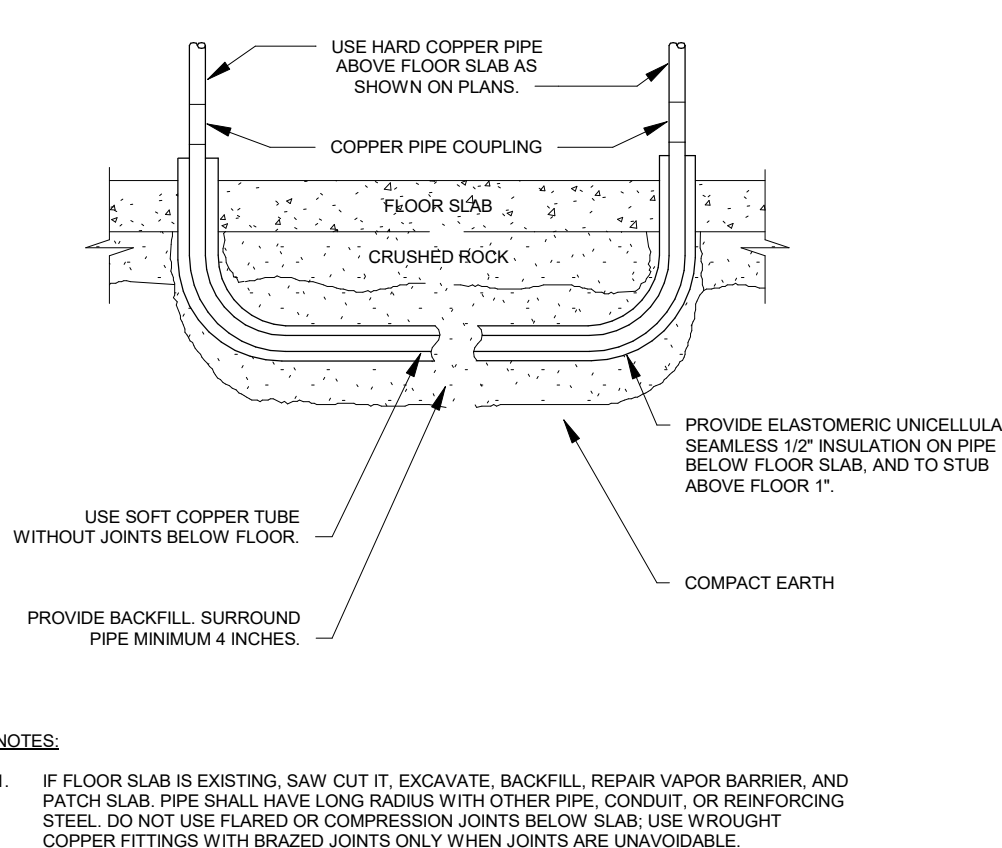
B7 ROOF HYDRANT  
NOT TO SCALE



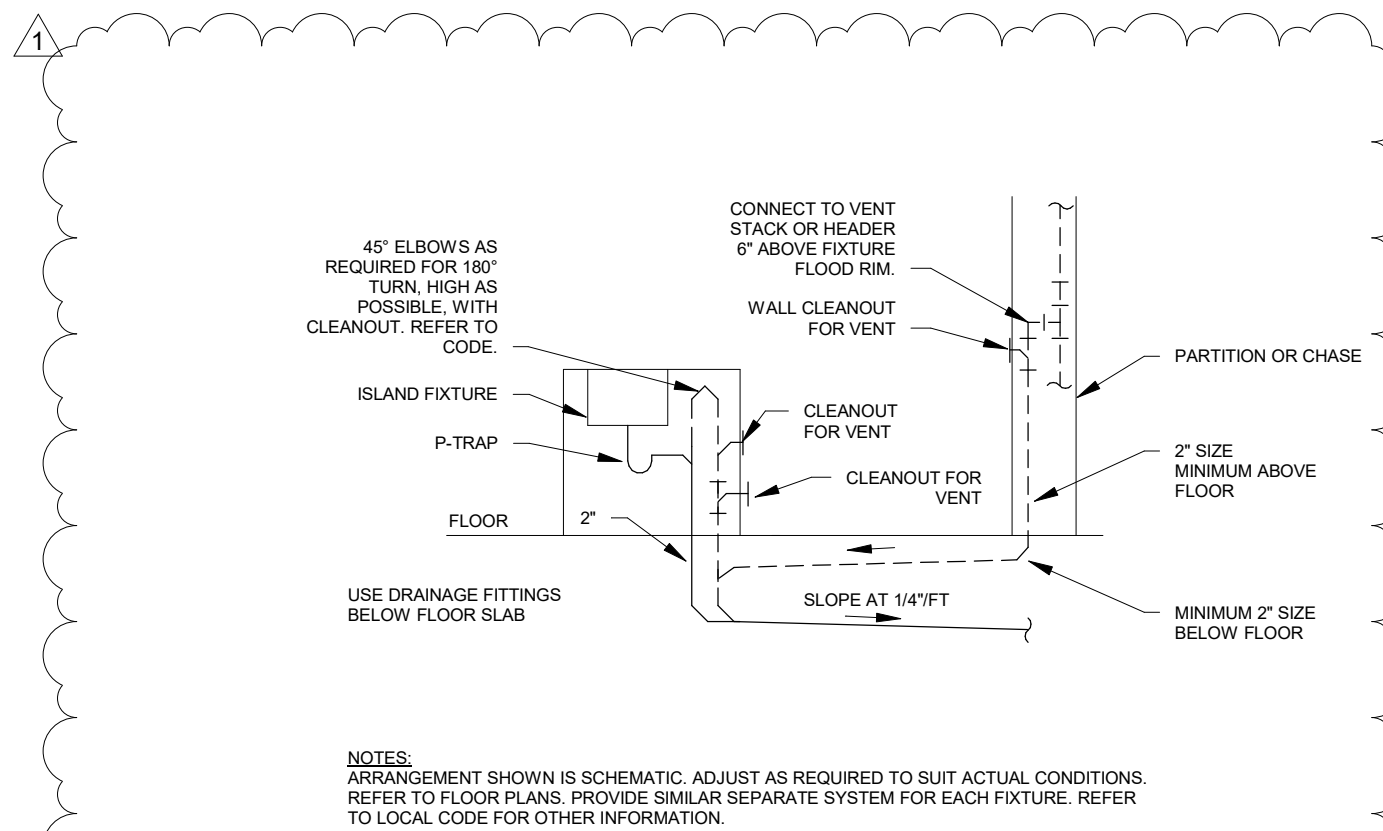
A7 GAS WATER HEATER AND HIGH EFF VENT ROOF  
NOT TO SCALE



A1 GAS APPLIANCE CONNECTION DETAIL  
NOT TO SCALE



A3 UNDER SLAB WATER PIPE  
NOT TO SCALE



A5 ISLAND FIXTURE VENT  
NOT TO SCALE

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PROJECT NO:	1822SR21001
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**PLUMBING DETAILS**

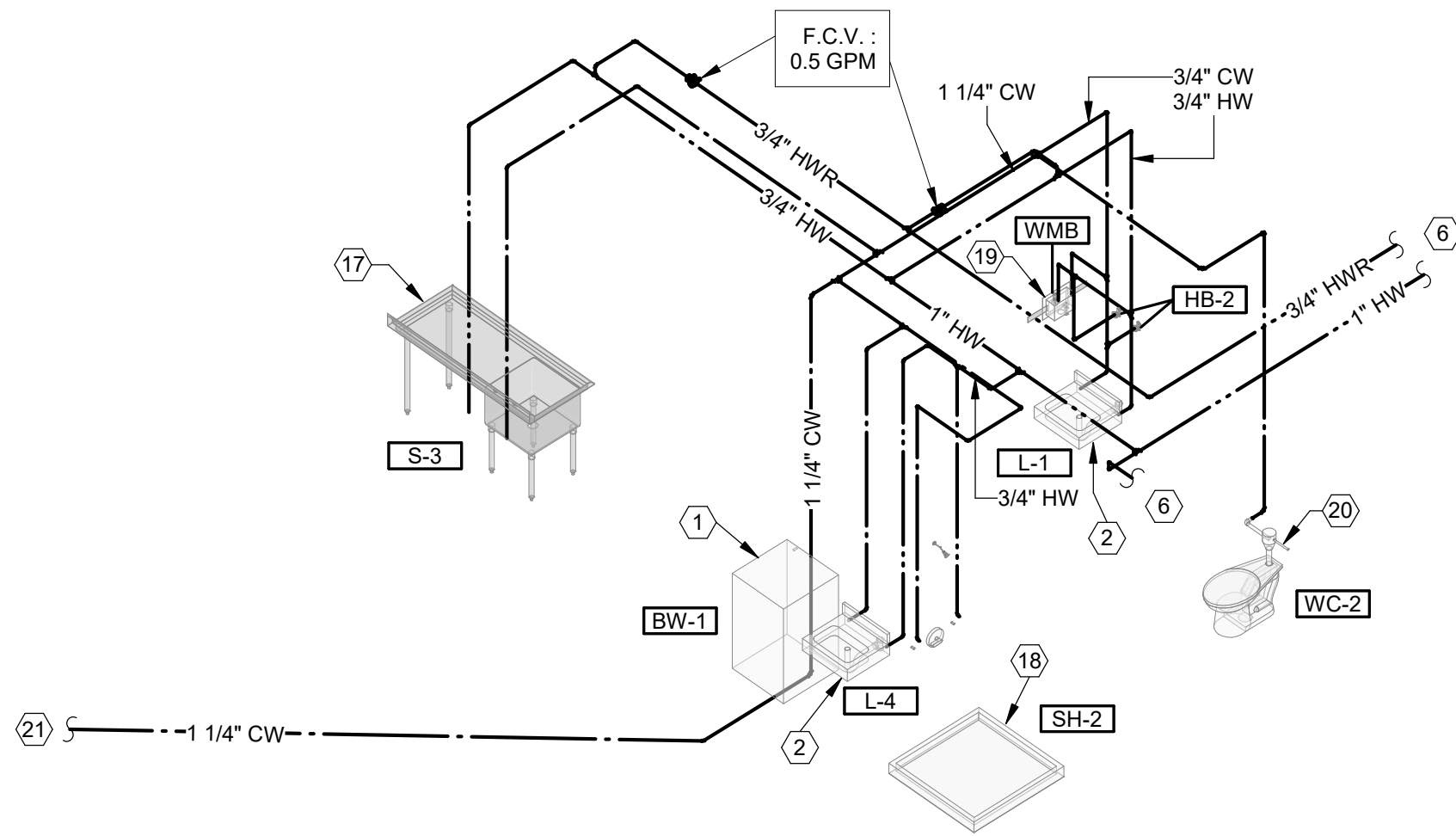
**P301**

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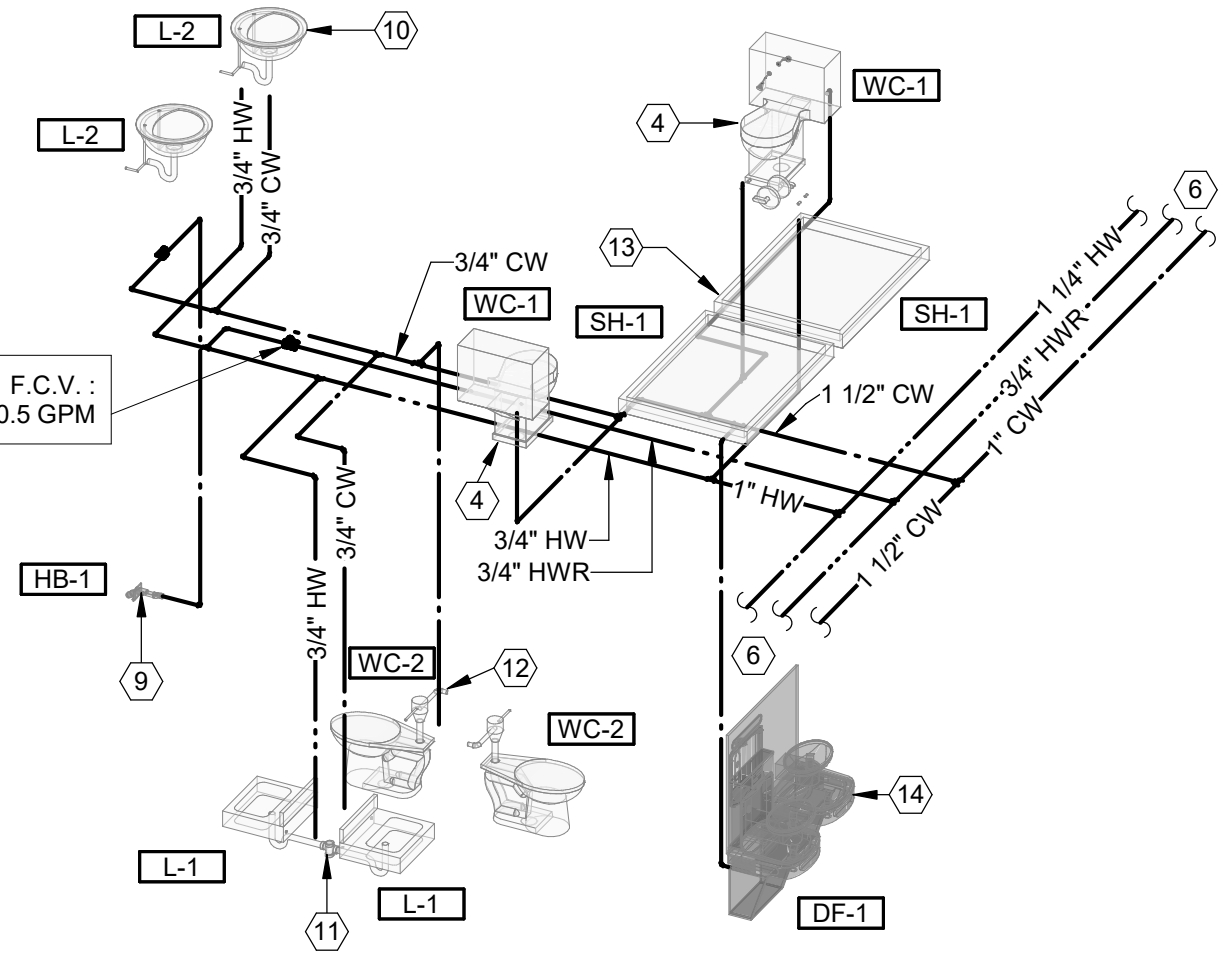




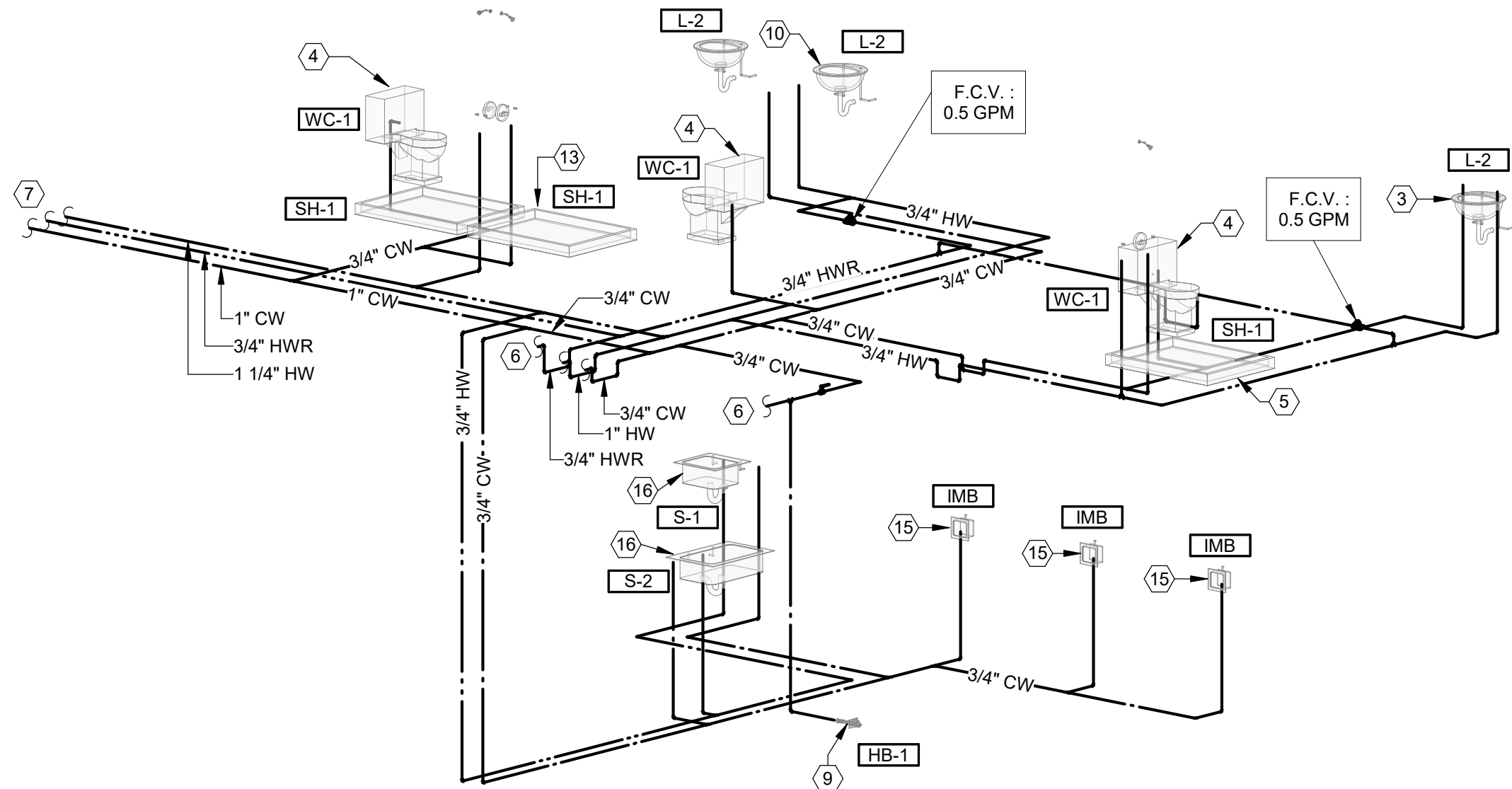




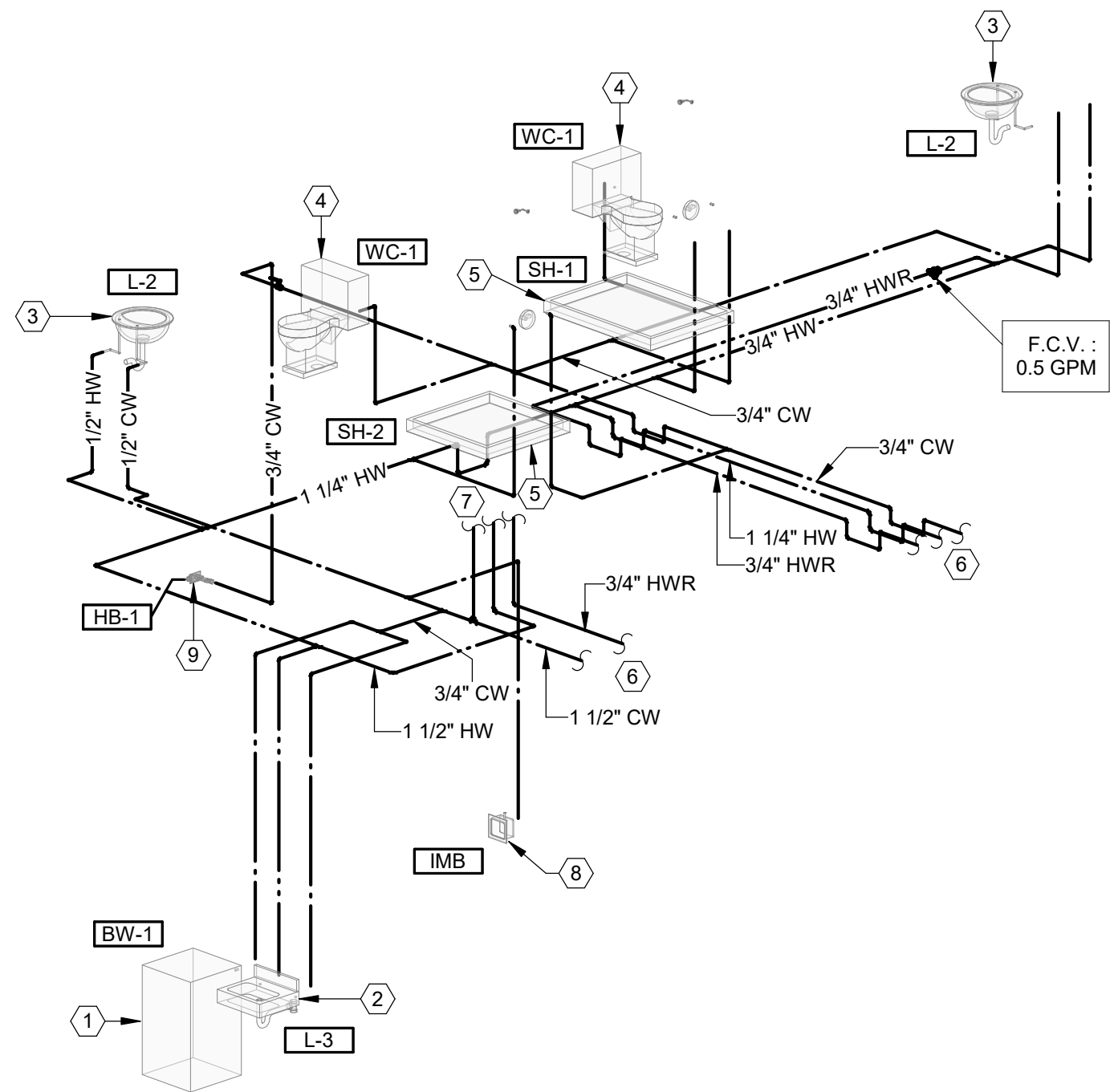
C1 DOMESTIC WATER RISER 4  
NOT TO SCALE



C3 DOMESTIC WATER RISER 2  
NOT TO SCALE



A1 DOMESTIC WATER RISER 3  
NOT TO SCALE



A5 DOMESTIC WATER RISER 1  
NOT TO SCALE

- PLUMBING PLAN NOTES:**
- 1 1/2" COLD WATER DOWN TO BOOT WASH STATION.
  - 2 1/2" COLD AND 1/2" HOT WATER DOWN TO LAVATORY.
  - 3 1/2" COLD AND 1/2" HOT WATER UP TO LAVATORY.
  - 4 1/2" COLD WATER UP TO WATER CLOSET.
  - 5 1/2" COLD AND 1/2" HOT WATER UP TO SHOWER.
  - 6 SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
  - 7 SEE SECOND FLOOR PLUMBING PLAN, P102, FOR CONTINUATION.
  - 8 1/2" COLD WATER DOWN TO ICE MAKER BOX.
  - 9 3/4" COLD WATER DOWN TO HOSE BIBB.
  - 10 3/4" COLD AND 3/4" HOT WATER UP TO LAVATORIES.
  - 11 3/4" COLD AND 3/4" HOT WATER DOWN TO LAVATORIES.
  - 12 1-1/4" COLD WATER DOWN TO WATER CLOSETS.
  - 13 3/4" COLD AND 3/4" HOT WATER UP TO SHOWERS.
  - 14 1/2" COLD WATER DOWN TO DRINKING FOUNTAIN.
  - 15 1/2" COLD WATER UP TO ICE MAKER BOX.
  - 16 1/2" COLD AND 1/2" WATER HOT UP TO SINK.
  - 17 1/2" COLD AND 1/2" HOT WATER DOWN TO SINK.
  - 18 1/2" COLD AND 1/2" HOT WATER DOWN TO SHOWER.
  - 19 1/2" COLD AND 1/2" HOT WATER DOWN TO WASHING MACHINE BOX.
  - 20 1-1/4" COLD WATER DOWN TO WATER CLOSET.
  - 21 SEE UNDERGROUND PLUMBING PLAN, P100, FOR CONTINUATION.

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#	Description	Date
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CHK'D BY:	NB

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**DOMESTIC WATER RISERS**

**P303**

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ELECTRICAL MASTER SYMBOLS LEGEND

STANDARD MOUNTING HEIGHTS	
CONTROLS (TOP OF DEVICE)	48"
RECEPTACLES	18"
RECEPTACLES (EXTERIOR)	24"
RECEPTACLES (GARAGES)	24"
RECEPTACLES (ABOVE COUNTER)	4" ABOVE BACKSPLASH/COUNTER
RECEPTACLES IN EQUIPMENT ROOMS	44"
DATA OUTLETS	SAME AS ADJACENT DEVICE, UNO
TELEVISION OUTLETS	REFER TO ARCH DRAWINGS
DEFAULT MOUNTING HEIGHTS SHOWN ABOVE TO BE USED UNLESS NOTED OTHERWISE BY ARCHITECT OR IN CONSTRUCTION DOCUMENTS. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.	
INSTALLATION HEIGHT OF ALL FIRE ALARM DEVICES SHALL BE AS REQUIRED BY THE LATEST EDITION OF NFPA 72, COORDINATE WITH EQUIPMENT MANUFACTURER BASED ON ACTUAL PROVIDED EQUIPMENT.	
ANNOTATIONS	
	INDICATES CONNECTION TO EXISTING SYSTEM
	INDICATES DEMO FROM EXISTING SYSTEM
	PLAN NOTE REFERENCE
	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
	SECTION REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
	MECHANICAL EQUIPMENT DESIGNATION
ABBREVIATIONS	
AD AF AFF AFG AHJ AIC AS AT ATS C CKT CT DEMO EC EM FCA FLA GC GEC G MCA MCB MCC MGB MLO MOCP N/A NF NL P PH/Ø PNLBD PROVIDE PT QTY RCPT RLA SCCR SD SF SPD ST SWBD SWGR TBB TGB TMGB UNO UPS VD VFD W	ACCESS DOOR AMPERE FRAME SIZE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMPERE INTERRUPTING CAPACITY AMPERE SWITCH AMPERE TRIP SETTING AUTOMATIC TRANSFER SWITCH CONDUIT CIRCUIT CURRENT TRANSFORMER DEMOLITION ELECTRICAL CONTRACTOR EMERGENCY FAULT CURRENT AMPS AVAILABLE FULL LOAD AMPS GENERAL CONTRACTOR GROUNDING ELECTRODE CONDUCTOR GROUND MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN GROUNDING BUSBAR MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION NOT APPLICABLE NON-FUSED NIGHT LIGHT (24 HR ON) POLE PHASE PANELBOARD FURNISH AND INSTALL POTENTIAL TRANSFORMER QUANTITY RECEPTACLE RUNNING LOAD AMPS SHORT CIRCUIT CURRENT RATING SMOKE DETECTOR SQUARE FEET SURGE PROTECTION DEVICE SHUNT TRIP SWITCHBOARD SWITCHGEAR TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS GROUND BUSBAR TELECOMMUNICATIONS MAIN GROUND BUSBAR UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY VOLTAGE DROP VARIABLE FREQUENCY DRIVE WIRE
LINETYPE LEGEND	
	EXISTING TO REMAIN
	NEW WORK
	DEMOLISH

LIGHTING	
	LIGHT FIXTURE
	CENTER LINE INDICATES ARCHITECTURAL BASKET ORIENTATION, WHERE APPLICABLE
	ARROW INDICATES AIMING DIRECTION
	SUSPENDED LIGHT FIXTURE
	LIGHT FIXTURE CIRCUITED AS NIGHT LIGHT
	EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
	NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
	A = LIGHT FIXTURE TYPE a = LIGHT FIXTURE CONTROL 15 = CIRCUIT
	LIGHTING TRACK WITH LIGHT FIXTURE TYPES AS INDICATED
	EXTERIOR SITE PARKING LOT LIGHT FIXTURE WITH NUMBER OF HEADS INDICATED
	EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED
	EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING / WALL MOUNTED
	CEILING FAN
LIGHTING CONTROL DEVICES	
	SINGLE POLE SWITCH
	SWITCH, LETTER DESIGNATION AS FOLLOWS:  2 = TWO POLE 3 = THREE-WAY 4 = FOUR-WAY D = DIMMER K = KEYED LV = LOW VOLTAGE M = MOMENTARY CONTACT OS = OCCUPANCY SENSOR VA = VACANCY SENSOR WP = WEATHERPROOF MR = MOTOR RATED
	CEILING MOUNT OCCUPANCY/VACANCY SENSOR
	WALL MOUNT OCCUPANCY/VACANCY SENSOR
	EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL DEVICE
	ROOM CONTROLLER - REFER TO SCHEDULE FOR MORE INFORMATION
	POWER PACK - REFER TO SCHEDULE FOR MORE INFORMATION
REFER TO LIGHTING DEVICE SCHEDULE FOR MORE DEVICE INFORMATION.	
POWER EQUIPMENT	
	ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNTED)
	ELECTRICAL DISTRIBUTION PANELBOARD
	TRANSFORMER - THIN OUTLINE INDICATES EQUIPMENT PAD EXTENDING 6" FROM EQUIPMENT WHERE FLOOR MOUNTED
	DISCONNECT SWITCH - "60/3/60/3R" DENOTES AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING, NF = NON-FUSED, CB = CIRCUIT BREAKER, NO VALUE FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING
	COMBINATION DISCONNECT SWITCH - "60/3/60/0/3R" DENOTES AMPERES/POLE/FUSE/STARTER SIZE/NEMA ENCLOSURE RATING, NF = NON-FUSED, CB = CIRCUIT BREAKER, NO VALUE FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING
	HOME RUN
	CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN

WIRING DEVICES & OUTLETS	
CIRCUIT DESIGNATION AS FOLLOWS:  LP-1 - 5 LP-1 = ASSOCIATED PANEL 5 = CIRCUIT	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	GFCI DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	DOUBLE DUPLEX GFCI RECEPTACLE
	SPECIAL TYPE RECEPTACLE - NEMA TYPE AS NOTED
	CONTROLLED RECEPTACLE
	INDICATES RECEPTACLE PROTECTED BY GFCI BREAKER
	RECEPTACLE INSTALLED ABOVE COUNTER OR BACKSPLASH
	RECEPTACLE INSTALLED VIA DROP CORD
RECEPTACLE, LETTER DESIGNATION AS FOLLOWS:  EM = EMERGENCY RECEPTACLE H = HORIZONTALLY MOUNTED IG = ISOLATED GROUND USB = USB/DUPLEX WP = WEATHER PROOF COVER WR = WEATHER RESISTANT TR = TAMPER RESISTANT TV = TELEVISION 60" = MOUNTING HEIGHT TO CENTER OF DEVICE	
	TOGGLE DISCONNECT SWITCH, RATING AS INDICATED
	TELEPHONE OUTLET
	DATA OUTLET
	DATA / TELEPHONE COMBINATION OUTLET
	DATA OUTLET INSTALLED ABOVE COUNTER OR BACKSPLASH
	WIRELESS ACCESS POINT
	MULTI-SERVICE FLOOR BOX WITH DATA AND POWER OUTLETS; A = TYPE
	MULTI-SERVICE POKE THROUGH WITH DATA AND POWER OUTLETS; A = TYPE
	JUNCTION BOX (JBOX)
	EMERGENCY POWER OFF BUTTON
FIRE ALARM DEVICES	
	FIRE ALARM RELAY
	WATER FLOW SWITCH
	VALVE TAMPER SWITCH
	FAN SHUTDOWN RELAY
	FIRE ALARM STROBE - WALL MOUNTED
	FIRE ALARM STROBE - CEILING MOUNTED
	MANUAL FIRE ALARM PULL STATION
	FIRE ALARM BELL
	FIRE HORN AND STROBE - WALL MOUNTED
	FIRE HORN
	FIRE SPEAKER - WALL MOUNTED
	FIRE SPEAKER - CEILING MOUNTED
	FIRE SPEAKER AND STROBE - WALL MOUNTED
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	CARBON DIOXIDE DETECTOR
	CEILING SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	THERMAL DETECTOR (HEAT)
	ELECTRIC DOOR HOLDER
	FIREMAN'S TELEPHONE OUTLET
	KNOX BOX

NURSE CALL	
	NURSE CALL MASTER STATION
	NURSE CALL ANNUNCIATION PANEL
	NURSE CALL SWITCH PANEL
	NURSE CALL ROOM STATUS CORRIDOR LIGHT - WALL MOUNT
	NURSE CALL ROOM STATUS CORRIDOR LIGHT - CEILING MOUNT
	NURSE CALL CORRIDOR LIGHT - WALL MOUNT
	NURSE CALL CORRIDOR LIGHT - CEILING MOUNT
	NURSE CALL PATIENT STATION - SINGLE CALL CORD
	NURSE CALL PATIENT STATION - DOUBLE CALL CORD
	NURSE CALL DUTY STATION
	NURSE CALL EMERGENCY STATION - PULL CORD
	NURSE CALL EMERGENCY STATION - PUSH BUTTON
	NURSE CALL CODE BLUE STATION
SECURITY	
COMMUNICATION	

ELECTRICAL ONE-LINE & RISER DIAGRAM	
	FEEDER SYMBOL - REFER TO FEEDER SCHEDULE
	UTILITY METER (AS REQUIRED BY UTILITY)
	SURGE PROTECTION DEVICE
	GROUND CONNECTION
	MOTOR
	CIRCUIT BREAKER (RATING AS INDICATED)
	FUSED DISCONNECT SWITCH (RATING AS INDICATED)
	TRANSFORMER (TYPE AND RATINGS AS INDICATED)
	AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED)
	GENERATOR (RATINGS AS INDICATED)
	NON-SEPARATELY DERIVED SOURCE SEPARATELY DERIVED SOURCE
	PANELBOARD, MULTIPLE SECTIONS WHERE SHOWN (REFER TO SCHEDULES)
THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS.	

- ELECTRICAL GENERAL NOTES:**
- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DE-RATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
- C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.
- D. PROVIDE FIRESTOPPING ON CONDUITS PASSING THROUGH FIRE RATED WALLS AND FLOORS. COORDINATE LOCATION AND RATINGS OF WALLS WITH ARCHITECTURAL DRAWINGS.
- E. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.
- F. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.
- G. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS.
- H. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.
- I. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.
- J. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.
- K. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL PANELS.
- L. PROVIDE BLANK COVER PLATES FOR ALL EXISTING OPEN J-BOXES LOCATED IN EXISTING WALL.
- M. MAINTAIN ALL EXISTING CIRCUIT CONTINUITIES.
- N. PROVIDE ROUGH-IN BOXES AND CONDUIT FOR THERMOSTATS AS INDICATED.
- O. REFER TO TELECOMMUNICATION DRAWINGS FOR DATA REQUIREMENTS.
- P. PROVIDE DUCT SMOKE DETECTORS IN RETURN AIR PATHS FOR AIR HANDLING EQUIPMENT 2,000 CFM AND LARGER AND WHERE SHOWN ON PLANS. INTERLOCK WITH AIR HANDLING EQUIPMENT TO SHUT DOWN UNIT UPON SMOKE DETECTION.
- Q. THE FIRE ALARM SCOPE OF WORK IS A DELEGATED DESIGN AND DEFERRED SUBMITTAL REQUIRING FIRE ALARM SUBCONTRACTOR STAMPED ENGINEERING AND SUBMISSION TO THE AHJ FOR REVIEW/APPROVAL. IT IS THE RESPONSIBILITY OF THE ELECTRICAL AND FIRE ALARM SUBCONTRACTORS TO PROVIDE A FULLY COORDINATED, COMPLETE, AND CODE COMPLIANT SYSTEM DESIGN AND INSTALLATION.
- R. GROUND FAULT INTERRUPTER RECEPTACLES SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.8 OF THE 2017 NEC.
- S. ARC FAULT INTERRUPTER PROTECTION SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.12 OF THE 2017 NEC.
- T. TAMPER RESISTANT RECEPTACLES SHALL BE PROVIDED AT ALL LOCATIONS AS REQUIRED BY SECTION 406.12 (DWELLING UNITS) OF THE 2017 NEC.

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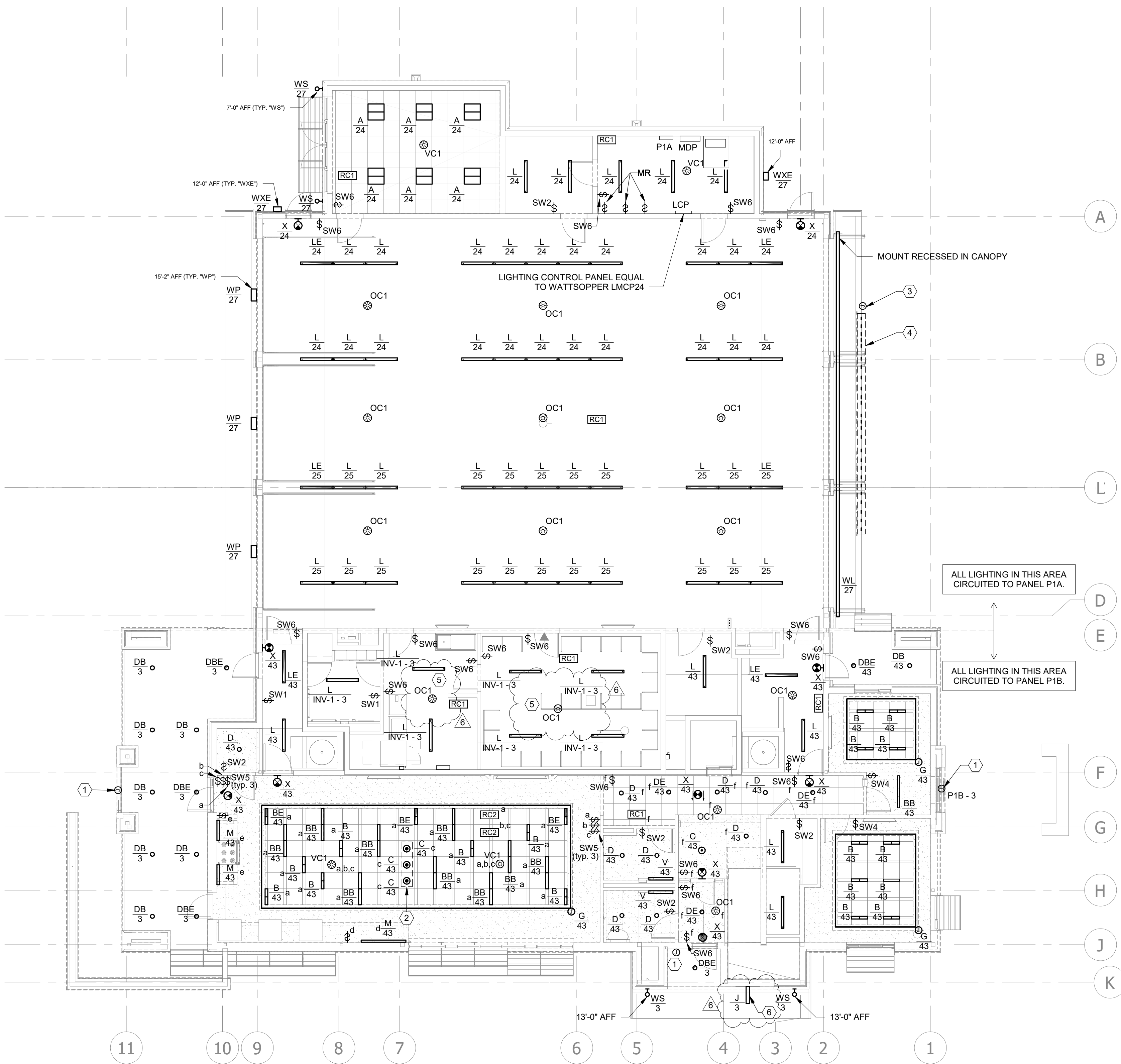
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**ELECTRICAL SYMBOLS LEGEND**

**E001**





- LIGHTING PLAN NOTES:**
- 1 J-BOX INSTALLED TO PROVIDE POWER FOR BUILDING MOUNTED SIGNAGE WITH INTEGRAL LIGHTING.
  - 2 BOTTOM OF "C" FIXTURES IN DINING SHALL BE HUNG 6'-4" AFF.
  - 3 J-BOX INSTALLED TO PROVIDE POWER TO DRIVER AND LED STRIP LIGHTS FOR OUTDOOR SIGNAGE LIGHTING
  - 4 LED STRIP SHALL BE INSTALLED BEHIND EACH LETTER BETWEEN STUDS AT THE TOP OF EACH SPACE. THE LED STRIP SHALL BE INSTALLED AT A LENGTH FROM STUD TO STUD INDIVIDUAL SECTIONS SHOULD EACH HAVE A FIXTURE WHIP LONG ENOUGH TO REACH THE DRIVER LOCATION ALL CONNECTIONS TO THE DRIVER SHALL OCCUR INSIDE THE BUILDING. COORDINATE EXACT REQUIREMENTS OF INSTALLATION WITH ARCHITECT BEFORE ROUGH IN.
  - 5 CONDUITS FOR LIGHTING AND CONTROLS SHALL BE SURFACE MOUNTED WITH SURFACE RACEWAY, THIS ROOM.
  - 6 FIELD ADJUST FIXTURE TO AIM AT CREST BELOW FIXTURE AND LOCK INTO PLACE. COORDINATE EXACT LOCATION WITH CREST LOCATION. REFERENCE ARCHITECTURAL PLANS FOR MORE INFORMATION

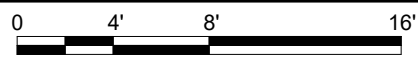
ALL EXTERIOR LIGHTING AND SIGNAGE TO BE CIRCUITED THROUGH LIGHTING CONTROL PANEL 'LCP'.

MOUNT RECESSED IN CANOPY

ALL LIGHTING IN THIS AREA CIRCUITED TO PANEL P1A.

ALL LIGHTING IN THIS AREA CIRCUITED TO PANEL P1B.

**A1 FIRST FLOOR LIGHTING RCP**  
1/8" = 1'-0"



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**FIRST FLOOR LIGHTING RCP**

**E101**



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LIGHTING PLAN NOTES:



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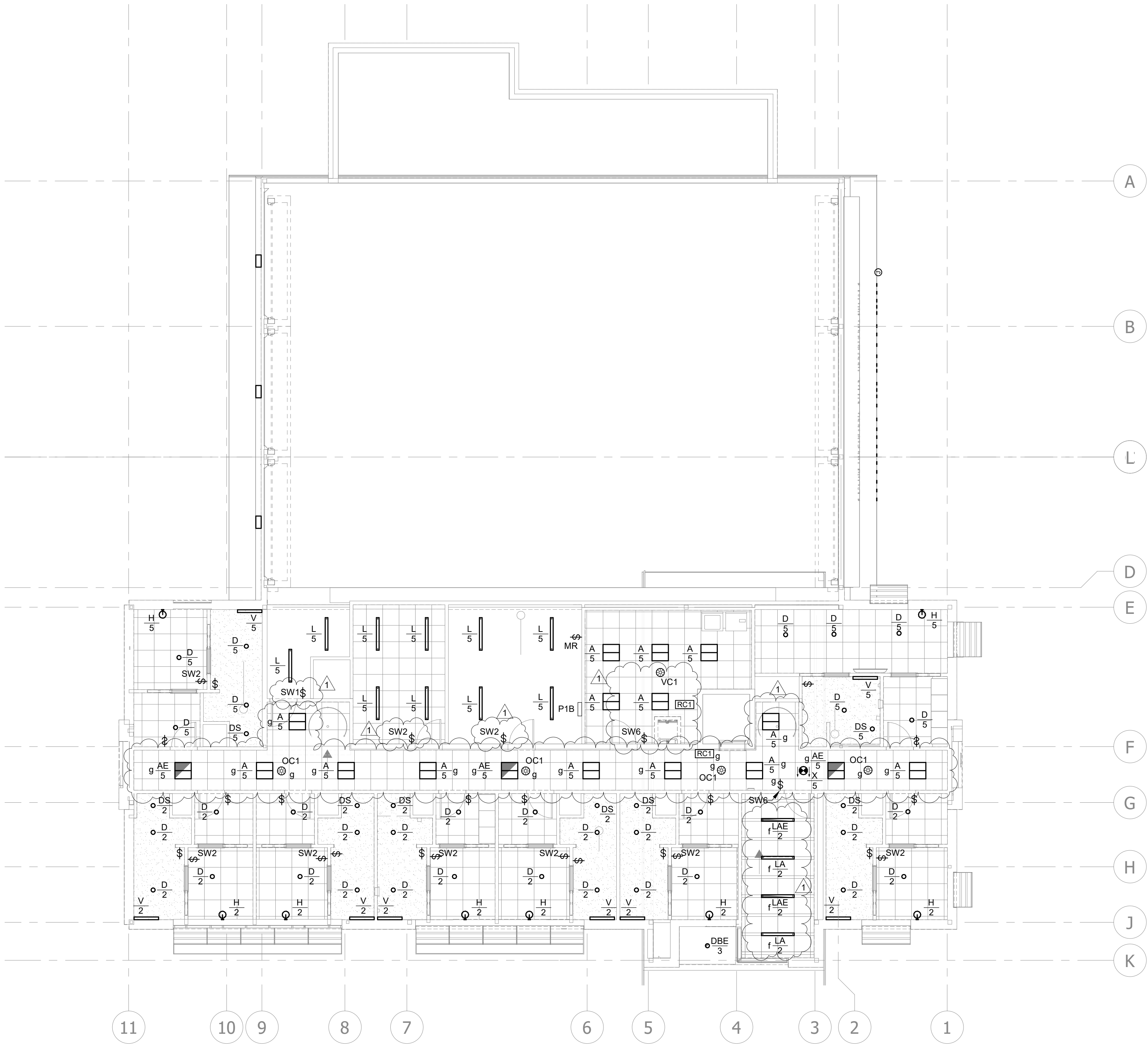
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**SECOND FLOOR  
LIGHTING RCP**

**E102**

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**1 SECOND FLOOR LIGHTING RCP**

1/8" = 1'-0"

0 4' 8' 16'



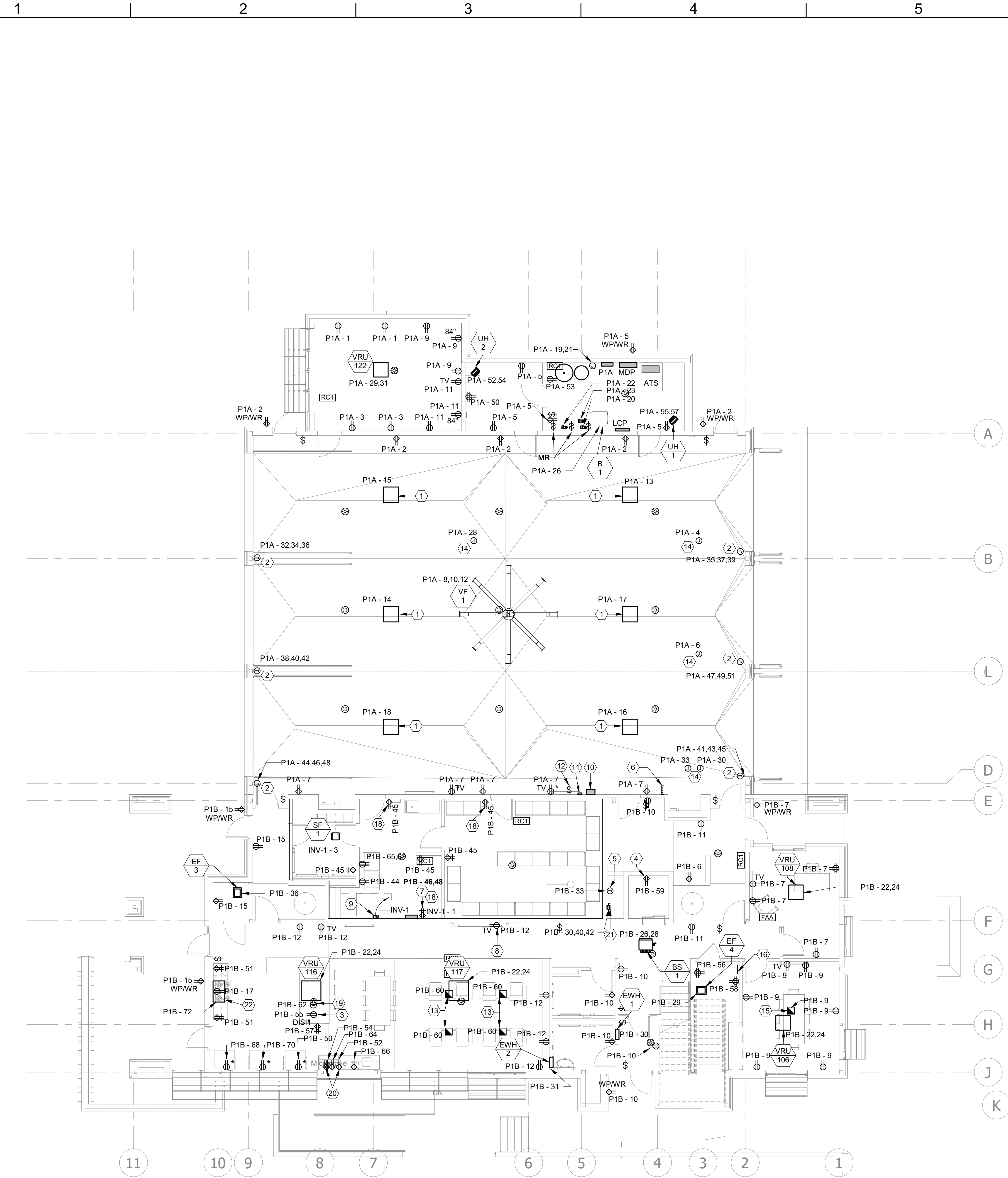
E

D

C

B

A



**ELECTRICAL PLAN NOTES:**

- 1 REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR AIR-VAC SYSTEM DETAILS.
- 2 J-BOX INSTALLED FOR POWER TO AUTOMATIC GARAGE DOOR. COORDINATE EXACT LOCATION WITH GARAGE DOOR MOTOR INSTALLATION.
- 3 RECEPTACLE INSTALLED UNDER COUNTER FOR DISHWASHER. ROUTE HOMERUN BELOW SLAB TO NEAREST WALL, THEN UP TO ABOVE CEILING.
- 4 GFCI RECEPTACLE INSTALLED IN ELEVATOR PIT.
- 5 J-BOX INSTALLED FOR ELEVATOR LIGHTING.
- 6 GARAGE DOOR CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH IN.
- 7 PROVIDE RED COLORED RECEPTACLE FOR EMERGENCY. POWERED FROM THE INVERTER.
- 8 MOUNT TV RECEPTACLE IN WALL FURRING.
- 9 240V/2P/30A FUSIBLE DISCONNECT IN NEMA 1 ENCLOSURE. PROVIDE FUSES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- 10 AIR-VAC SYSTEM CONTROLLER. REFER MECH.
- 11 MULTI-GAS DETECTION SYSTEM. REFER MECH.
- 12 VF-1 FAN CONTROLLER. REF. MECH.
- 13 TYPE A: SINGLE GANG RECEPTACLE FLOOR BOX, REFER TO SPECS.
- 14 PROVIDE 30FT. HEAVY-DUTY #12 AWG. POWER CORD WITH NEMA 5-20R CONNECTION. PROVIDE STRAIN RELIEF WHERE CORD MOUNTS TO THE J-BOX ABOVE. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 15 TYPE B: TWO GANG RECEPTACLE/DATA FLOOR BOX, REFER TO SPECS. ROUTE 1-1/4" CONDUIT FROM FLOOR BOX UP INTO WALL FOR AV/IT NEEDS.
- 16 PROVIDE GROUNDING BAR IN TEL/RADIO. REFER TO SPECIFICATIONS AND DETAILS FOR MORE INFORMATION.
- 17 STORM SHELTER INVERTER. REFER TO SPECS.
- 18 RECEPTACLE SHALL BE SURFACE MOUNTED WITH SURFACE RACEWAY.
- 19 PROVIDE POWER CONNECTION AND SWITCH UNDER SINK FOR DISPOSER. ROUTE HOMERUN BELOW SLAB TO NEAREST WALL, THEN UP TO ABOVE CEILING.
- 20 MICROWAVE RECEPTACLES. MOUNT ONE AT 24" AFF. AND THE SECOND AT 5'-6" VERIFY EXACT DIMENSIONS WITH CASEWORK.
- 21 PROVIDE EATON ELEVATOR POWER SWITCH MODEL EST2R2GF1 N.
- 22 PROVIDE JUNCTION BOX AND MAKE ELECTRICAL CONNECTION TO RANGE HOOD AND TO RANGE HOOD CONTROL SWITCH. INSTALL RANGE HOOD FIRE SUPPRESSION APPLIANCE SHUT OFF AND WIRELESS RECEIVER. FURNISHED BY MECH. SUPPRESSION SYSTEM SHALL CUT POWER TO THE RANGE WHEN ACTIVATED. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

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**FIRST FLOOR  
POWER PLAN**

**E201**

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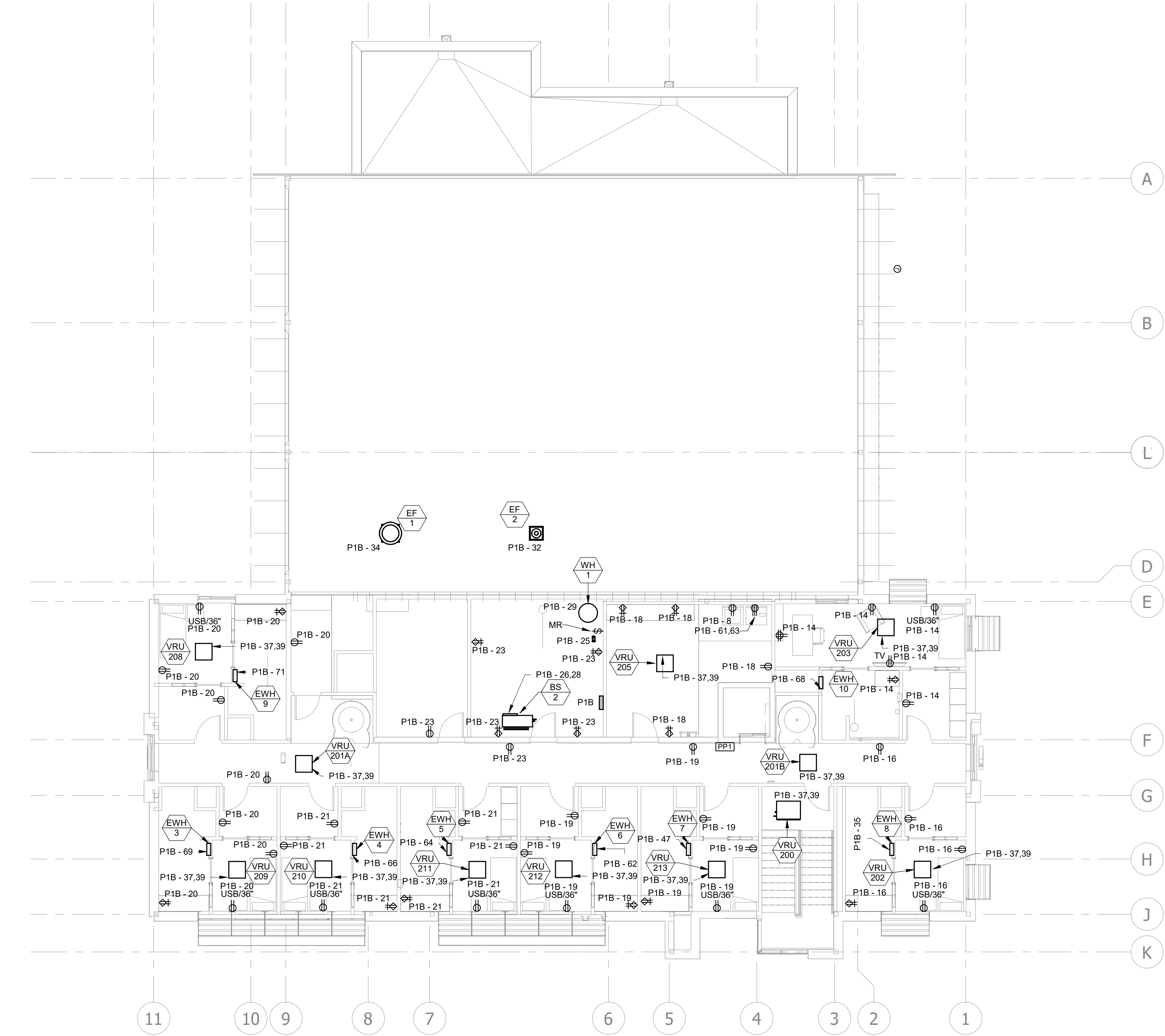
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SECOND FLOOR  
POWER PLAN

E202

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A1 SECOND FLOOR POWER PLAN  
1/8" = 1'-0"

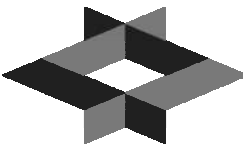




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ELECTRICAL PLAN NOTES:

1 PROVIDE KNOX BOX.



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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
801 MISSOURI HIGHWAY 150  
LEE'S SUMMIT, MISSOURI 64064

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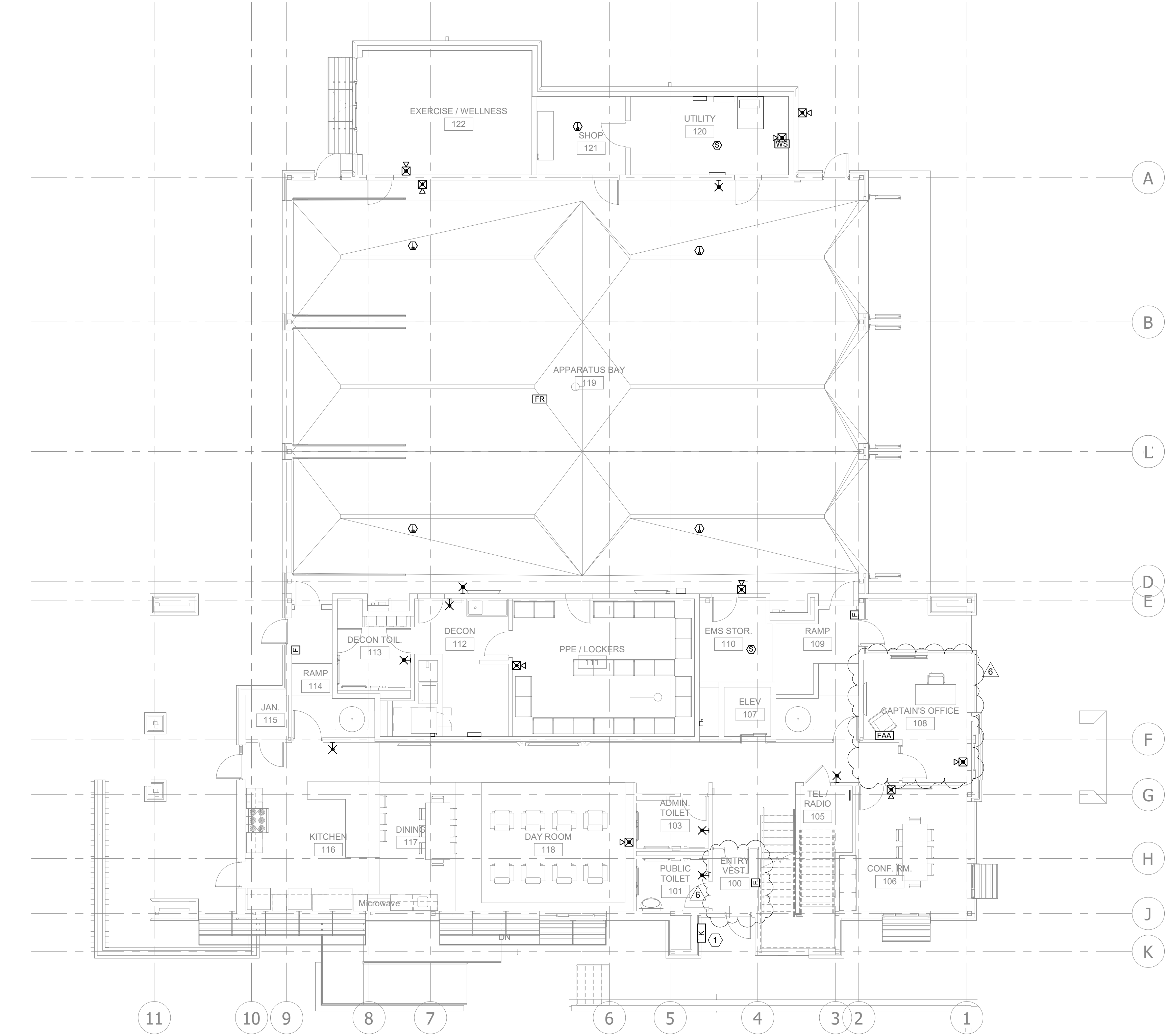
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**FIRST FLOOR**  
**FIRE ALARM**  
**PLAN**

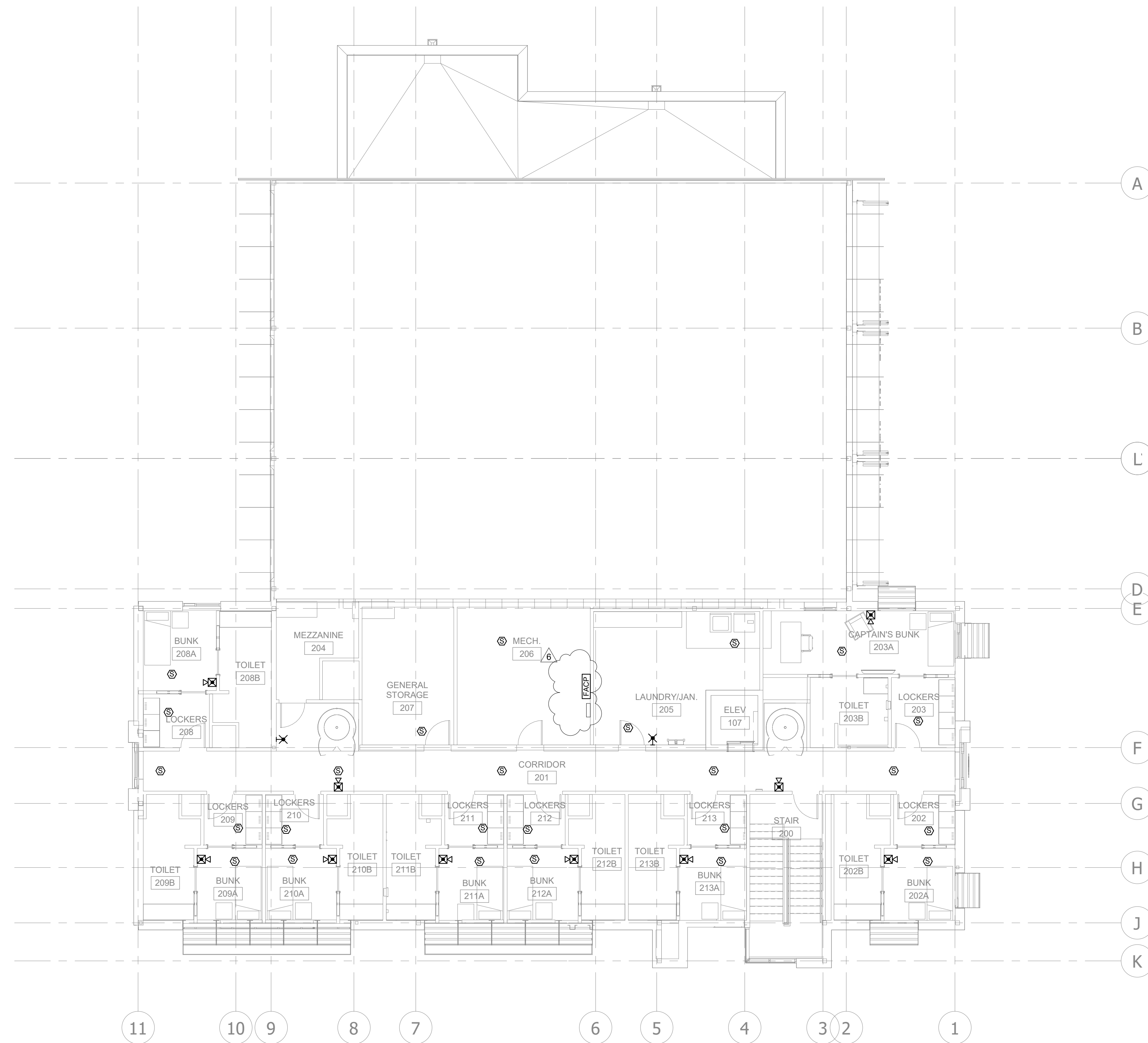
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**A1 FIRST FLOOR FIRE ALARM PLAN**  
1/8" = 1'-0"





**A1 SECOND FLOOR FIRE ALARM PLAN**

SYSTEM INPUTS										ALARM	SURV	TRIP	REARM	SIG	ACT	SHUT	SHUT	SHUT	
MANUAL PULL STATIONS										●				●	●				
AREA SMOKE DETECTORS										●				●	●				●
DUCT SMOKE DETECTORS																			
SPRINKLER VALVE TAMPER											●			●			●		●
SPRINKLER WATER FLOW										●				●					●
FIRE ALARM CONTROL PANEL LOSS OF POWER														●	●				
FIRE ALARM OPEN CIRCUIT												●	●	●					
FIRE ALARM GROUND FAULT												●	●	●					
FIRE ALARM SHORT CIRCUIT												●	●	●					

① FIRE ALARM SIGNALS OF OPERATIONS  
1/8" = 1'-0"

**ELECTRICAL PLAN NOTES:**



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**FIRE STATION #5**  
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SECOND FLOOR  
FIRE ALARM  
PLAN

## E402

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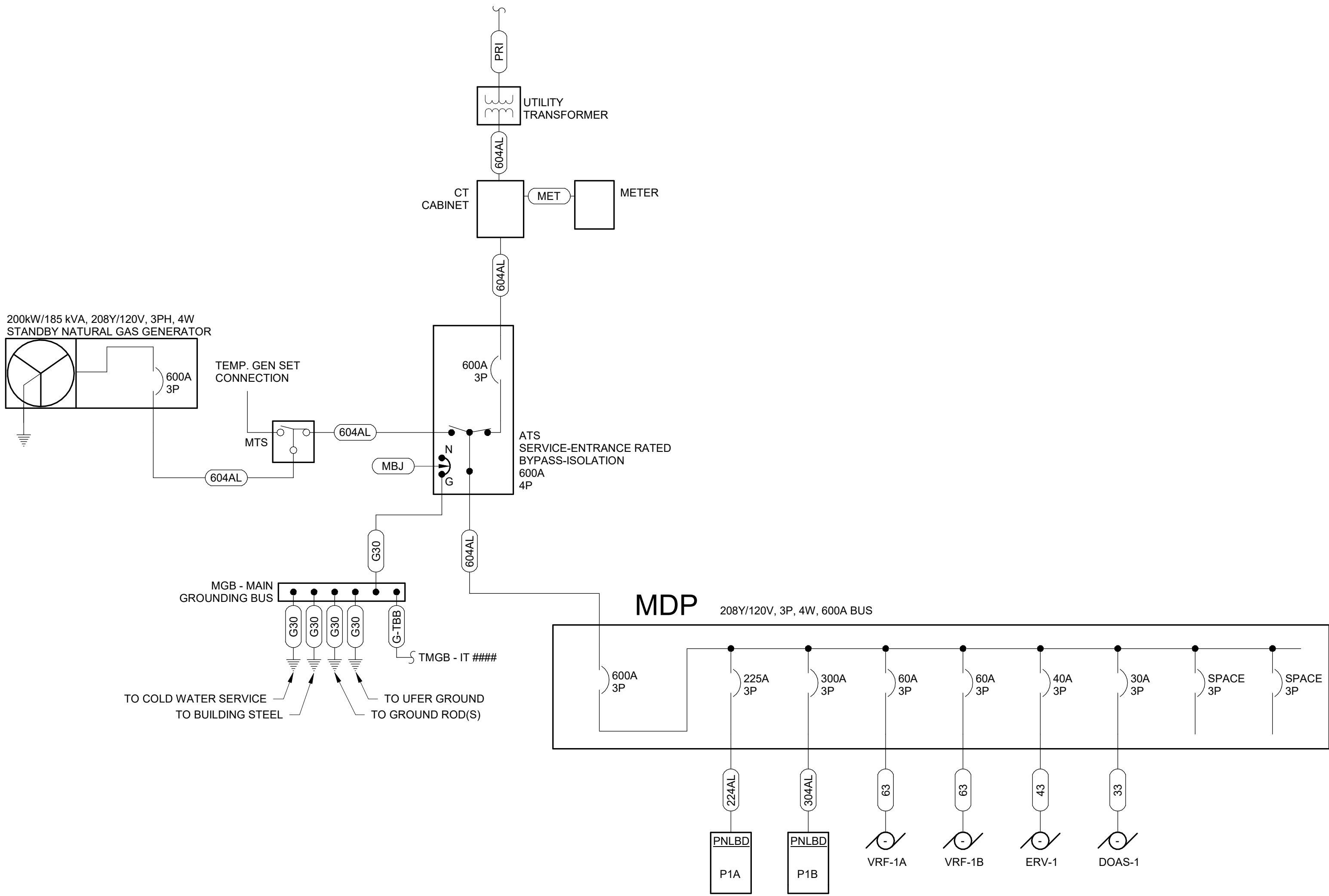
E

D

C

B

A



A3 ELECTRICAL ONE-LINE DIAGRAM  
NOT TO SCALE

## FEEDER SCHEDULE

FEEDER TAG	FEEDER SIZE
23	20 A, (3)#12, (1)#12 G, 0.75" C
33	30 A, (3)#10, (1)#10 G, 0.75" C
43	40 A, (3)#8, (1)#10 G, 0.75" C
44	40 A, (4)#8, (1)#10 G, 0.75" C
53	50 A, (3)#8, (1)#10 G, 0.75" C
54	50 A, (4)#8, (1)#10 G, 0.75" C
54T	50 A, (4)#8, (1)#8 SSB, 0.75" C
63	60 A, (3)#6, (1)#10 G, 1" C
64	60 A, (3)#6, (1)#10 G, 1" C
73	70 A, (3)#4, (1)#8 G, 1" C
74	70 A, (4)#4, (1)#8 G, 1.25" C
83	80 A, (3)#4, (1)#8 G, 1" C
84	80 A, (4)#4, (1)#8 G, 1.25" C
93	90 A, (3)#3, (1)#8 G, 1.25" C
94	90 A, (4)#3, (1)#8 G, 1.25" C
103	100 A, (3)#3, (1)#8 G, 1.25" C
104	100 A, (4)#3, (1)#8 G, 1.25" C
104T	100 A, (4)#3, (1)#8 SSB, 1.25" C
123	125 A, (3)#1, (1)#6 G, 1.5" C
124	125 A, (4)#1, (1)#6 G, 1.5" C
153	150 A, (3)#1/0, (1)#6 G, 1.5" C
154	150 A, (4)#1/0, (1)#6 G, 1.5" C
154T	150 A, (4)#1/0, (1)#6 SSB, 1.5" C
173	175 A, (3)#2/0, (1)#6 G, 1.5" C
174	175 A, (4)#2/0, (1)#6 G, 1.5" C
203	200 A, (3)#3/0, (1)#6 G, 2" C
204	200 A, (4)#3/0, (1)#6 G, 2" C
223	225 A, (3)#4/0, (1)#4 G, 2.5" C
224	225 A, (4)#4/0, (1)#4 G, 2.5" C
224AL	225 A, (4)300kcmil, (1)#2 G, 3" C (ALUMINUM)
224T	225 A, (4)#4/0, (1)#2 SSB, 2.5" C
253	250 A, (3)250kcmil, (1)#4 G, 2.5" C
254	250 A, (4)250kcmil, (1)#4 G, 2.5" C
303	300 A, (3)350kcmil, (1)#4 G, 3" C
304	300 A, (4)350kcmil, (1)#4 G, 3" C
304AL	300A, (2) sets of (4)#3/0, #2 G, 2" C (ALUMINUM)
353	350 A, (3)500kcmil, (1)#3 G, 3" C
354	350 A, (4)500kcmil, (1)#3 G, 3" C
403	400 A, (2) sets of (3)#3/0, (1)#3 G, 2" C
404	400 A, (2) sets of (4)#3/0, (1)#3 G, 2" C
404T	400 A(2) sets of (4)#3/0, (1)#1/0 SSB, 2.5" C
503	500 A, (2) sets of (3)250kcmil, (1)#2 G, 2.5" C
504	500 A, (2) sets of (4)250kcmil, (1)#2 G, 2.5" C
604	600 A, (2) sets of (4)350kcmil, (1)#1 G, 3" C
604AL	600 A, (2) sets of (4)500kcmil, (1)#2/0 G, 3" C (ALUMINUM)
604T	600 A, (2) sets of (4)350kcmil, (1)#2/0 SSB, 3" C
704	700 A, (2) sets of (4)500kcmil, (1)#1/0 G, 3" C
803	800 A, (3) sets of (3)300kcmil, (1)#1/0 G, 3" C
804	800 A, (4) sets of (3)300kcmil, (1)#1/0 G, 3" C
804S	800 A, (4) sets of (3)300kcmil, 3" C
1004	1000 A, (3) sets of (4)400kcmil, (1)#2/0 G, 3" C
1204	1200 A, (4) sets of (4)350kcmil, (1)#3/0 G, 3" C
1604	1600 A, (5) sets of (4)400kcmil, (1)#4/0 G, 3" C
2504	2500 A, (8) sets of (4)400kcmil, (1)#350 G, 3" C
G2	#2 COPPER GROUND, 0.75" C
G4	#4 COPPER GROUND, 0.75" C
G6	#6 COPPER GROUND, 0.75" C
G8	#8 COPPER GROUND, 0.75" C
G10	#1/0 COPPER GROUND, 1" C
G20	#2/0 COPPER GROUND, 1" C
G30	#3/0 COPPER GROUND, 1" C
G-TBB	250kcmil G, 1.5" PVC
MBJ	MAIN BONDING JUMPER, #3/0 COPPER GROUND
MET	1.25" C WITH PULL WIRE. GROUND METER PER UTILITY STANDARDS.
PRI	4" C WITH PULL TAPE. PRIMARY UTILITY SERVICE FEEDER. COORDINATE ALL REQUIREMENTS WITH UTILITY.



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**ELECTRICAL**  
**ONE-LINE**  
**DIAGRAM**

**E502**

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E

D

C

B

A

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PANELBOARD SCHEDULE LEGEND	
OL	REFER TO ONE-LINE DIAGRAM
AF	ARC FAULT CIRCUIT BREAKER
GF	GROUND FAULT CIRCUIT BREAKER
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER
FA	PROVIDE RED HANDLE-ON CLAMP FOR FIRE ALARM CIRCUIT
HLO	PROVIDE PAD LOCKABLE-OFF DEVICE CAPABLE OF SECURING BREAKER HANDLE IN THE OFF POSITION.
ST	PROVIDE SHUNT TRIP DEVICE FOR BREAKER

## LIGHT FIXTURE SCHEDULE

FIXTURE TAG	MANUFACTURER	MODEL	EQUIVALENT MANUFACTURER	LIGHT SOURCE				DIMMING TYPE	MOUNTING TYPE	VOLTAGE	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
				TYPE	LUMENS	COLOR TEMP	CRI							
A	HE WILLIAMS	AT1-22-L40/830-D-DIM-UNV		LED	3000	3000 K	80	0-10V	RECESSED	120	37	41	2X2 RECESSED TROFFER	1
AE	HE WILLIAMS	AT1-22-L40/830-D-EM/10W-DIM-UNV		LED	3000	3000 K	80	0-10V	RECESSED	120	37	41	2X2 RECESSED TROFFER WITH INTERGRAL EMERGENCY BATTERY	1,3
B	HE WILLIAMS	LRX4F-2-L8/830-DMA-DIM-UNV		LED	1600	3000 K	80	0-10V	RECESSED	120	13	15	2' RECESSED STRIP FIXTURE	1
BB	HE WILLIAMS	LRX4F-4-L8/830-DMA-DIM-UNV		LED	3200	3000 K	80	0-10V	RECESSED	120	27	30	4' RECESSED STRIP FIXTURE	1
BE	HE WILLIAMS	LRX4F-2-L8/830-EM/10W-DMA-DIM-UNV		LED	1600	3000 K	80	0-10V	RECESSED	120	13	15	2' RECESSED STRIP FIXTURE WITH INTERGRAL EMERGENCY BATTERY	1
C	HE WILLIAMS	6CR-TL-L10/830-DIM-UNV-OM		LED	1000	3000 K	80	0-10V	PENDANT	120	9	10	DECORATIVE PENDANT TBD	1,6,7
D	HE WILLIAMS	4DR-TL-L10/830-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	4" RECESSED DOWNLIGHT	1
DB	HE WILLIAMS	6DR-TL-L10/830-ATH-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	6" RECESSED DOWNLIGHT WEATHER RATED	1,2
DBE	HE WILLIAMS	6DR-TL-L10/830-EM/10W-ATH-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	6" RECESSED DOWNLIGHT WEATHER RATED WITH INTERGRAL COLD WEATHER EMERGENCY BATTERY	1,2,4
DE	HE WILLIAMS	4DR-TL-L10/830-EM/10W-DIM-UNV-OW-OF		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	4" RECESSED DOWNLIGHT WITH INTERGRAL EMERGENCY BATTERY	1
DS	HE WILLIAMS	4DR-TL-L10/830-DIM-UNV-SW-OF-WH-A D		LED	1000	3000 K	80	0-10V	RECESSED	120	9	10	4" RECESSED DOWNLIGHT SHOWER RATED	
F	BEGA	84 45Z - NON-SKID LENS		LED	3211	3000 K	80	--	IN-GRADE	120	34	38	CAST-IN PLACE IN-GRADE FLAGPOLE FIXTURE	2,4,7
F2	HYDREL	M9410C-A-LED-P1-40K-MVOLT-WWD-P		LED	1262	3000 K	80	--	IN-GRADE	120	11	12	CAST-IN PLACE IN-GRADE LIQUID TIGHT WALL WASH FIXTURE	2,7
G	ACCLAIM LIGHTING	LCSR-12B-LSF-LDIM-DNA FLEXOSI35		LED	232	3000 K	95	0-10V	CHANNEL	120	3	3	LED TAPELIGHT WITH 45 DEG CHANNEL. LUMENS PER LINEAR FOOT. WATTAGE PER LINEAR FOOT	1,8,9
H	ARTEMIDE	SKOPOS		LED	72	3000 K	80	--	WALL MOUNT	120	1	1	WALL MOUNT FLEXABLE DESK LIGHT	
J	HK USA LIGHTING	SIGN-12V-4-30-24"		LED	131	3000 K	80	0-10V	WALL MOUNT	120	4	4	WALL MOUNTED CREST LIGHT	1,10
L	HE WILLIAMS	75L-4-L38/830-DMA-ACF-DIM-UNV		LED	3800	3000 K	80	0-10V	SUSPENDED	120	31	35	4' LENSED SUSPENDED STRIP FIXTURE	
LA	FOCAL POINT	FSM4LS-BW-625F-30K-1C-UNV-LD1-C2 4		LED	2500	3000 K	80	0-10V	SUSPENDED	120	22	24	4' SUSPENDED LINEAR	
LAE	FOCAL POINT	FSM4LS-BW-625F-30K-1C-UNV-LD1-C2 4-1EM		LED	2500	3000 K	80	0-10V	SUSPENDED	120	22	24	4' SUSPENDED LINEAR WITH INTERGRAL EMERGENCY BATTERY	3
LE	HE WILLIAMS	75L-4-L38/830-EM/10W-DMA-ACF-DIM-UNV		LED	3800	3000 K	80	0-10V	SUSPENDED	120	31	35	4' LENSED SUSPENDED STRIP FIXTURE WITH INTERGRAL EMERGENCY BATTERY	
M	TASK LIGHTING	SA9Q-F30		LED	200	3000 K	80	0-10V		120	2	2	UNDERCABINET LINEAR FIXTURE. LUMENS PER FOOT, WATTS PER FOOT.	
S1	LITHONIA	DSX1 LED P4 30K T4M MVOLT		LED	13165	3000 K	80	--	POLE	120	125		POLE MOUNTED SITE LIGHTING FIXTURE	
V	HUBBELL	3L-W-ID-LPA-3-03-SOF-30K-I030-D030-U NV		LED	900	3000 K	80	0-10V	WALL MOUNT	120	6	7	VANITY LIGHT TBD	1
WL	MICROLINEA	ML3WLASY-D-CO(628LPF)K40-80-12-R-FLA-F01M-EF-UNV-DIM10		LED	2578	3000 K	80	--	RECESSED	120	356	395	EXTERIOR LINEAR WALL-WASH FIXTURE. 4 FT SECTIONS, 7.5 W/FT. LUMENS OUTPUT PER 4 FT	2
WP	ACUITY	WDGE3 LED P2 30K 80CRI MVOLT SRM		LED	8500	3000 K	80	--	WALL MOUNT	120	15	17	EXTERIOR WALL PACK	2
WS	BEGA	24 582		LED	1581	3000 K	85	--	WALL MOUNT	120	17	18	EXTERIOR WALL SQUARE DOWN LIGHT	2
WXE	ACUITY	WDGE2 P130K 80CRI VF MVOLT SRM		LED	1200	3000 K	80	--	WALL MOUNT	120	10	11	EXTERIOR WALL PACK WITH COLD-WEATHER EM BATTERY	2,4
X	H.E. WILLIAMS	EXIT-R-EM-WHT-SDT		LED					UNIVERSAL	120				3,5
<b>NOTES:</b> 1. PROVIDE FIXTURE WITH DIMMABLE DRIVER. 2. PROVIDE FIXTURE WITH COLD WEATHER DRIVER. 3. PROVIDE FIXTURE WITH EMERGENCY DRIVER. 4. PROVIDE FIXTURE WITH COLD WEATHER EMERGENCY DRIVER. 5. PROVIDE NUMBER OF FACES AND DIRECTIONAL ARROWS TO MATCH WHAT IS SHOWN ON DRAWINGS. 6. MOUNT FIXTURE 8'-4" ABOVE FINISHED GRADE. 7. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. 8. PROVIDE CONTINUOUS RUN LENGTHS AS SHOWN ON PLANS. 9. MOUNT WITHIN ARCHITECTURAL SOFFIT WHERE SHOWN. REFER TO ARCHITETUARAL PLAN FOR SOFFIT DETAILS. 10. MOUNT FIXTURE 8'-0" ABOVE FINISHED GRADE. 11. MOUNT FIXTURE CENTERED ON THE WALL 3'-0" FROM THE FACE.														
<b>GENERAL NOTES:</b> A. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES. B. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION. C. REFERENCE PLANS FOR FIXTURES REQUIRING EMERGENCY DRIVERS. D. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES.														

## LIGHTING DEVICE SCHEDULE

DEVICE TAG	MANUFACTURER	MODEL	DESCRIPTION	DIMMING	ON MODE	SENSOR TYPE	TIME DELAY	MAX LOAD	MOUNTING TYPE	VOLTAGE	NOTES
SW6	WATTSTOPPER	LMSW-102	LOW VOLTAGE ON/OFF WALL SWITCH (2 BUTTON)	--					WALL	24	
<b>AUXILIARY DEVICES</b>											
RC1	WATTSTOPPER	LMRC-10X	2 ZONE CEILING PLENUM ROOM CONTROLLER	--				0 A	PLENUM	120	
RC2	WATTSTOPPER	LMRC-11X	2 ZONE CEILING PLENUM ROOM CONTROLLER WITH DIMMING CAPABILITIES	0-10V				10 A	PLENUM	120	
<b>CEILING-MOUNTED OCCUPANCY SENSOR</b>											
OC1	WATTSTOPPER	DT-300	LOW VOLTAGE CEILING MOUNTED DUAL TECH SENSOR IN OCCUPANCY MODE						CEILING	24	
VC1	WATTSTOPPER	DT-300	LOW VOLTAGE CEILING MOUNTED DUAL TECH SENSOR IN VACANCY MODE						CEILING	24	
<b>OCCUPANCY SENSOR SWITCH</b>											
SW1	WATTSTOPPER	DW-100	LINE VOLTAGE SWITCH WITH INTERGRAL DUAL TECH SENSOR IN OCCUPANCY MODE	--				0 A	WALL	120	
SW2	WATTSTOPPER	DW-100	LINE VOLTAGE SWITCH WITH INTERGRAL DUAL TECH SENSOR IN VACANCY MODE	--				0 A	WALL	120	
SW4	WATTSTOPPER	DW-311	LINE VOLTAGE SWITCH WITH INTERGRAL DUAL TECH SENSOR IN VACANCY MODE WITH DIMMING CAPABILITIES	0-10V				0 A	WALL	120	
<b>WALL SWITCHES</b>											
SW5	WATTSTOPPER	LMSW-105	LOW VOLTAGE WALL SWITCH WITH DIMMING CAPABILITIES (5 BUTTON)	0-10V					WALL	24	
<b>GENERAL CONTROL NOTES:</b>  A. AUTO ON (OCCUPANCY MODE): LOAD TURNS ON AND OFF AUTOMATICALLY BASED ON OCCUPANCY. IF LOAD IS TURNED OFF MANUALLY, LOAD REMAINS OFF UNTIL 5 MINUTES AFTER OCCUPANT DETECTION. IT THEN REVERTS TO AUTO ON MODE. B. MANUAL ON (VACANCY MODE): OCCUPANT MUST MANUALLY PRESS ON/OFF BUTTON TO ENERGIZE THE LOAD. LOAD REMAINS ENERGIZED UNTIL NO MOTION IS DETECTED FOR THE SELECTED TIME DELAY.											
<b>GENERAL NOTES:</b>  A. PROVIDE ALL REQUIRED WIRING FOR A COMPLETE INSTALLATION. REFERENCE MANUFACTURER'S WIRING DIAGRAMS FOR ALL REQUIRED WIRING. B. DUAL TECHNOLOGY SENSORS OCCUPANCY LOGIC SHALL BE SELECTED FOR DETECTION BY EITHER TECHNOLOGY AND SHOULD ONLY REQUIRE ONE FOR INITIAL AND MAINTAINED OCCUPANCY AND RETRIGGER WHEN OPTION IS AVAILABLE. C. PROVIDE TWO DIGITAL WIRELESS CONFIGURATION TOOLS. WATTSTOPPER MODEL LMCT-100. D. COORDINATE FINISHES WITH ARCHITECT/OWNER PRIOR TO ORDERING ALL CONTROL DEVICES. E. ALL SENSORS IN CORRDORS SHALL BE SET TO EXTNEDED CORRIDOR DETECTION.											
<b>NOTES:</b>  1. THIS SWITCH SHALL BE PROGRAMED WITH THE FOLLOWING SCENES. COORDINATE FINALE SCHENE WITH OWNER PRIOR TO COMMISSIONING: • PADDLE: ALL ON/OFF 50% BY DEFAULT. ALL DIM UP/DOWN. • BUTTON 1: ALL 100% • BUTTON 2: ALL 75% • BUTTON 3: ALL 50% • BUTTON 4: ALL 25%  2. THIS SWITCH SHALL BE PROGRAMED WITH THE FOLLOWING SCENES. COORDINATE FINALE SCHENE WITH OWNER PRIOR TO COMMISSIONING: • PADDLE: ALL ON/OFF 50% BY DEFAULT • BUTTON 1: ALL DIM UP • BUTTON 2: ALL DIM DOWN  3. THIS SWITCH SHALL BE PROGRAMED WITH THE FOLLOWING SCENES. COORDINATE FINALE SCHENE WITH OWNER PRIOR TO COMMISSIONING: • BUTTON 1: ALL ON • BUTTON 2: ALL OFF  4. THIS SWITCH SHALL BE PROGRAMED WITH THE FOLLOWING SCENES. COORDINATE FINALE SCHENE WITH OWNER PRIOR TO COMMISSIONING: • BUTTON 1: ALL ON/OFF											



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REVISIONS:		
#	Description	Date
5	AS: 01	11/16/2022
6	AS: 02	02/22/2023



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PROJECT NO:	18225R21001
DATE:	10.20.2022
DRAWN BY:	JL
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**ELECTRICAL SCHEDULES**

**E600**

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E

D

C

B

A

PANELBOARD: P1A																	
LOCATION: UTILITY 120							VOLTS/PHASE 208Y/120V, 3Ph, 4W							EQUIPMENT GROUND BUS			
FED FROM: MDP							MIN AIC RATING: 22 kAIC										
MOUNTING: SURFACE							BUS AMPS: 225 A										
							MAIN LUG RATING: 225 A										
CKT	LOAD DESCRIPTION	WIRE SIZE	GND SIZE	TYPE	BKR AMP	P	A	B	C	P	BKR AMP	TYPE	GND SIZE	WIRE SIZE	LOAD DESCRIPTION	CKT	
1	NORTH EXERCISE RECEPTACLES				20 A	1	360	900			1	20 A			NORTH WALL APP. BAY...	2	
3	SOUTH EXERCISE RECEPTACLES				20 A	1			360	500		1	20 A		DROP CORD RECEPTACLES	4	
5	UTILITY AND SHOP...				20 A	1				900	500	1	20 A		DROP CORD RECEPTACLES	6	
7	SOUTH WALL APP. BAY...				20 A	1	900	828			3	15 A			APP. BAY VENT FAN (VF-1)	8	
9	RECEPTACLE EXERCISE /...				20 A	1		540	828		--	--	--	--	--		10
11	RECEPTACLE EXERCISE /...				20 A	1			540	828	--	--	--	--	--		12
13	NORTHWEST APP. EXHASUT FAN				20 A	1	1560	1560			1	20 A			EAST APP. EXHASUT FAN	14	
15	NORTHEAST APP. EXHASUT FAN				20 A	1		1560	1560		1	20 A			SOUTHWEST APP. EXHASUT FAN	16	
17	WEST APP. EXHASUT FAN				20 A	1			1560	1560	1	20 A			SOUTHEAST APP. EXHASUT FAN	18	
19	AIR COMPRESSOR				60 A	2	2912	90			1	20 A			HOT WATER PUMP 2	20	
21	--	--	--	--	--	--		2912	90		1	20 A			HOT WATER PUMP 3	22	
23	HOT WATER PUMP 1				20 A	1			110	1195	1	20 A			UTILITY, SHOP, EXER., APP. BA...	24	
25	SOUTH APPARATUS BAY...				20 A	1	763	420			1	20 A			BOILER	26	
27	OUTDOOR LIGHTING				20 A	1		504	500		1	20 A			DROP CORD RECEPTACLES	28	
29	EXERCISE VRU				15 A	2			52	500	1	20 A			DROP CORD RECEPTACLES	30	
31	--	--	--	--	--	--	52	1320			3	30 A			EAST BAY DOOR 1 - 3hp	32	
33	DROP CORD RECEPTACLES				20 A	1		500	1320		--	--	--	--	--		34
35	WEST BAY DOOR 1 - 5hp				35 A	3			2100	1320	--	--	--	--	--		36
37	--	--	--	--	--	--	2100	1320			3	20 A			EAST BAY DOOR 2 - 3hp	38	
39	--	--	--	--	--	--		2100	1320		--	--	--	--	--		40
41	WEST BAY DOOR 2 - 5hp				35 A	3			2100	1320	--	--	--	--	--		42
43	--	--	--	--	--	--	2100	1320			3	20 A			EAST BAY DOOR 3 - 3hp	44	
45	--	--	--	--	--	--		2100	1320		--	--	--	--	--		46
47	WEST BAY DOOR 3 - 5hp				35 A	3			2100	1320	--	--	--	--	--		48
49	--	--	--	--	--	--	2100	360			1	20 A			RECEPTACLE SHOP 122	50	
51	--	--	--	--	--	--		2100	1500		2	20 A			SUPPLEMENTAL HEAT 121	52	
53	RECEPTACLE COMPR 121				20 A	1			180	1500	--	--	--	--	--		54
55	SUPPLEMENTAL HEAT 120				20 A	2	1500										56
57	--	--	--	--	--	--		1500									58
59	GENERATOR BLOCK HEATER				20 A	1			1500								60
61	GENERATOR BATTERY CHARGER				20 A	1	400										62
63																	64
65																	66
67																	68
69																	70
71																	72
73																	74
75																	76
77																	78
79																	80
81																	82
83																	84
TOTAL LOAD (VA):							22865 VA	23114 VA	21185 VA								
TOTAL AMPS:							193 A	195 A	177 A								
LOAD TYPE		CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES					PANELBOARD TOTALS							
EXISTING LOAD										TOTAL CONNECTED LOAD: 67164 VA							
COOLING			0%	0 VA						TOTAL NEC DEMAND: 68169 VA							
HEATING			0%	0 VA						TOTAL CONNECTED CURRENT: 186 A							
LIGHTING		2462 VA	125%	3077 VA						TOTAL NEC DEMAND CURRENT: 189 A							
RECEPTACLES		5040 VA	100%	5040 VA													
MOTORS (125% OF LARGEST)		9754 VA	104%	10144 VA													
KITCHEN EQUIPMENT																	
MISCELLANEOUS		41004 VA	100%	41004 VA													
SUPPLEMENTAL HEAT																	
SIGNAGE																	

Branch Panel: INV-1

Location: DECON 112

Supply From: P1B

Mounting: Surface

Enclosure:

Volts: 208/120V, 1Ph, 3W

Phases: 1

Wires: 3

Input: 120V, 1ph

Output: 120V, 1ph

A.I.C. Rating:

Mains Type:

Mains Rating: 20 A

MCB Rating: 20 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	STORM SHELTER RECEPTACLES	20 A	1	180 VA	88 VA		1	20 A	STORM SHELTER FAN	2
3	STORM SHELTER LIGHTING...	20 A	1		243 VA					4
		Total Load:		268 VA	243 VA	0 VA				
		Total Amps:		3 A	2 A	0 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	88 VA	125%	110 VA	
Receptacle	180 VA	100%	180 VA	Total Conn. Load: 510 VA
				Total Est. Demand: 593 VA
				Total Conn.: 2 A
				Total Est. Demand: 3 A

Notes:

PANELBOARD SCHEDULE LEGEND	
OL	REFER TO ONE-LINE DIAGRAM
AF	ARC FAULT CIRCUIT BREAKER
GF	GROUND FAULT CIRCUIT BREAKER
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER
FA	PROVIDE RED HANDLE-ON CLAMP FOR FIRE ALARM CIRCUIT
HLO	PROVIDE PAD LOCKABLE-OFF DEVICE CAPABLE OF SECURING BREAKER HANDLE IN THE OFF POSITION.
ST	PROVIDE SHUNT TRIP DEVICE FOR BREAKER

PANELBOARD: P1B														EQUIPMENT GROUND BUS										
LOCATION: MECH. 206							VOLTS/PHASE 208Y/120V, 3Ph, 4W							EQUIPMENT GROUND BUS										
FED FROM: MDP							MIN AIC RATING: 10 kAIC							SURGE PROTECTION DEVICE										
MOUNTING: SURFACE							BUS AMPS: 400 A							SURGE PROTECTION DEVICE										
MAIN LUG RATING: 400 A																								
NOTE: PANEL PROTECTED WITH 300A OCPD																								
CKT	LOAD DESCRIPTION	WIRE SIZE	GND SIZE	TYPE	BKR AMP	P	A	B	C	P	BKR AMP	TYPE	GND SIZE	WIRE SIZE	LOAD DESCRIPTION	CKT								
1	RECEPTACLE				20 A	1	360	1027			1	20 A			LIGHTING LCKR ALC. 202	2								
3	OUTDOOR LIGHTING				20 A	1					1	20 A			INV-1	4								
5	SECOND FLOOR LIGHTING				20 A	1		683	268		1	20 A			ICE MACHINE	6								
7	CAPTAIN OFFICE RECEPTACES				20 A	1	1440	750			1	20 A			RECEPTACLE MECH. 205	8								
9	CONF. ROOM RECEPTACES				20 A	1			1440	1260	1	20 A			TOILET/EMS STOR...	10								
11	TEL/RADIO/RAMP RECEPTACES				20 A	1				1060	1080	1	20 A		DAY ROOM RECEPTACES	12								
13	BATHROOM HEATER				20 A	1	1500	1080			1	20 A			CAPTAN BUNKS RECEPTACES	14								
15	KITCHEN/JAN/RAMP...				20 A	1			900	900	1	20 A			BUNK 202 RECEPTACES	16								
17	KITCHEN/RANGETOP				20 A	1				180	720	1	20 A		LAUNDRY 205 RECEPTACES	18								
19	BUNK 212 AND 213...				20 A	1	1620	1800			1	20 A			BUNK 208 AND 209...	20								
21	BUNK 210 AND 211...				20 A	1			1440	216	2	15 A			FIRST LEVEL VRU	22								
23	MECH/GEN STORAGE...				20 A	1				1080	216	--	--	--	--	--	24							
25	HHW RECIRCULATION PUMP				20 A	1	100	104			2	15 A			BS-1	26								
27	WATER HEATER				20 A	1			600	104	--	--	--	--	--	--	28							
29	TEL/RADIO EF-4				20 A	1				126	1500	1	20 A		EWH-1	30								
31	EWH-2				20 A	1	1500	82			1	20 A			EF-1	32								
33	ELEVATOR LIGHTING				15 A	1			180	1656	1	20 A			EF-2	34								
35	BATHROOM HEATER				20 A	1				1500	37	1	20 A		EF-3	36								
37	2ND LEVEL VRU				15 A	2	624	2867			3	30 A			ELEVATOR	38								
39	--	--	--	--	--	--		624	2867		--	--	--	--	--	--	40							
41	SITE LIGHTING				20 A	1				493	2867	--	--	--	--	--	42							
43	FIRST FLOOR LIGHTING				20 A	1	1163	1500			1	20 A			WASHING MACHINE	44								
45	LOCKER ROOM RECEPTACES				20 A	1			900	1873	2	30 A		10	10	WASHER/EXTRACTOR...	46							
47	SUPPLEMENTAL HEATING RR				20 A	1				1500	1873	--	--	--	--	--	48							
49	FIRE ALARM CONTROL PANEL				20 A	1	300	750			1	20 A			REFRIGERATOR	50								
51	RECEPTACLE STAIR 200				20 A	1			360	1500	1	20 A			MICROWAVE	52								
53	BATHROOM HEATER				20 A	1				1500	1500	1	20 A		MICROWAVE	54								
55	MISCELLANEOUS STAIR 200				20 A	1	1200	360			1	20 A			RECEPTACLE ADMIN...	56								
57	RECEPTACLE STAIR 200				20 A	1			180	360	1	20 A			RECEPTACLE ADMIN...	58								
59	RECEPTACLE JAN. 104				20 A	1				180	720	1	20 A		RECEPTACLE DAY ROOM 117	60								
61	DRYER LAUNDRY 205	10	10		30 A	2	1440	800			1	20 A			DISPOSER	62								
63	--	--	--	--	--	--			1440	180	1	20 A			RCPT. KITCHEN	64								
65	DRYER DECON 112	10	10		30 A	2				1440	180	1	20 A		RCPT. KITCHEN	66								
67	--	--	--	--	--	--	1440	750			1	20 A			REFRIGERATOR	68								
69	BATHROOM HEATER				20 A	1			1500	750	1	20 A			REFRIGERATOR	70								
71	BATHROOM HEATER				20 A	1				1500	400	1	20 A		RANGE HOOD	72								
73	BATHROOM HEATER				20 A	1	1500										74							
75	BATHROOM HEATER				20 A	1			1500								76							
77																	78							
79							0					--	--	--	--	SPD	80							
81									0			--	--	--	--		82							
83										0		--	--	--	--		84							
TOTAL LOAD (VA):							26039 VA	23680 VA	24191 VA															
TOTAL AMPS:							218 A	197 A	202 A															
LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES						PANELBOARD TOTALS														
EXISTING LOAD																								
COOLING		0%	0 VA							TOTAL CONNECTED LOAD: 73910 VA														
HEATING		0%	0 VA							TOTAL NEC DEMAND: 71684 VA														
LIGHTING	3238 VA	125%	4048 VA							TOTAL CONNECTED CURRENT: 205 A														
RECEPTACES	20370 VA	75%	15185 VA							TOTAL NEC DEMAND CURRENT: 199 A														
MOTORS (125% OF LARGEST)	16322 VA	113%	18472 VA																					
KITCHEN EQUIPMENT																								
MISCELLANEOUS	17370 VA	100%	17370 VA																					
SUPPLEMENTAL HEAT	15000 VA	100%	15000 VA																					
SIGNAGE																								



FILE PATH: B:\380-1182252P21001\_LeesSummitFireStation\_#4 and #5\210001291 LSNO FIRE STAION\_#5 v19.rvt

MARK D. MAURER

E

D

C

B

A

GENERAL NOTES	
SPECIFICATION REFERENCES:	
1.	REFER TO DIVISION 27 SPECIFICATION SECTION "AUDIO-VIDEO SYSTEMS" AND RELATED DOCUMENTS AND SECTIONS FOR PRODUCT INFORMATION AND ADDITIONAL REQUIREMENTS.
2.	CATEGORY AND FIBER CABLEING SHALL BE INSTALLED, TERMINATED, AND TESTED PER DIVISION 27 SECTION "TELECOMMUNICATIONS REQUIREMENTS FOR AUDIO-VIDEO SYSTEMS".
GENERAL PATHWAY NOTES:	
1.	ALL BUILDING INFRASTRUCTURE, CONDUIT, AND PATHWAYS INCLUDING BUT NOT LIMITED TO CONDUIT, RACEWAYS, CABLE TRAYS, PEDESTALS, BACK BOXES, JUNCTION BOXES, FLOOR BOXES, DOORS, LIDS, AND COVERS ARE PER DIVISION 27 SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS" UNLESS OTHERWISE NOTED WITHIN THIS DRAWING SERIES SET.
2.	REFER TO "CONDUIT ROUTING AND SEPARATION" ON THIS SHEET FOR CONDUIT SPACING INFORMATION.
3.	PROVIDE CONTINUOUS UNOBSTRUCTED CABLE PATH FOR ENTIRE LENGTH OF CABLE RUN. EXPOSED CABLEING MAY REQUIRE CONDUIT TRANSITION(S) TO ACHIEVE A COMPLETE PATHWAY.
4.	COORDINATE ANY CONFLICTS WITH APPROPRIATE DISCIPLINES.
5.	REFER TO LIFE SAFETY PLANS FOR LOCATION OF FIRE- AND SMOKE-RATED WALLS AND FLOORS. PROVIDE LISTED FIRESTOPPING SYSTEMS FOR PENETRATIONS PER DIVISION 27 SPECIFICATION SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS".
BOX SCHEDULE NOTES:	
1.	VERIFY QUANTITIES, LOCATIONS, AND MOUNTING WITH PLAN, DETAIL, AND EQUIPMENT VIEW DRAWINGS.
2.	ALL BOXES SHOWN IN SCHEDULE ARE PER DIVISION 27 SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS" UNLESS OTHERWISE NOTED WITHIN THIS DRAWING SERIES SET.
3.	FIELD VERIFY MOUNTING CONDITIONS AND BOX SIZE PRIOR TO INSTALLATION.
4.	WALL MOUNTED BOXES SHOWN AT SWITCH OR CONVENIENCE OUTLET HEIGHT SHALL MATCH MOUNTING HEIGHT OF ADJACENT BOXES ON WALL UNLESS OTHERWISE NOTED.
5.	WALL MOUNTED TERMINATION GANG BOXES SHALL BE MOUNTED 18" A.F.F. TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.
6.	WALL MOUNTED TERMINATION NEMA AND MANUFACTURER SPECIFIC BOXES SHALL BE MOUNTED 16" A.F.F. TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED.
7.	SURFACE MOUNTED BOXES SHALL BE PAINTED TO MATCH SURROUNDING FINISH.
8.	COORDINATE ANY CONFLICTS WITH APPROPRIATE DISCIPLINES.
GENERAL PANEL AND PLATE NOTES:	
1.	CUSTOM TERMINATION COVER PANELS AND PLATES SHALL BE PROVIDED PER SPECIFICATION SECTION "AUDIO-VIDEO SYSTEMS" REQUIREMENTS AND SHALL BE SIZED TO APPROPRIATELY SELF-TRIM THEIR CORRESPONDING BACK BOX.
2.	ALL PANELS AND PLATES SHALL BE 1/8" THICK (MINIMUM) BLACK ANODIZED ALUMINUM WITH ENGRAVED OR LASER ETCHED LETTERING OF A CONTRASTING COLOR. DEFAULT ENGRAVED TEXT COLOR SHALL BE WHITE. UTILIZE 3/16" UPPER CASE LETTERING, SANS-SERIF FONT. VERIFY PLATE COLOR WITH ARCHITECT.
3.	REINFORCE PLATE AND/OR INCREASE PLATE THICKNESS TO MINIMIZE DEFLECTION.
4.	UTILIZE COUNTERSUNK SCREW HEADS. SCREWS HEADS SHALL MATCH PLATE COLOR.
5.	ANY PANEL AND PLATE DETAILS OR INFORMATION RELATED TO TERMINATION PLATING CONTAINED IN THIS SET ARE INCLUDED FOR COMMUNICATION OF FABRICATION REQUIREMENTS AND ARE FOR CONCEPT ONLY. LAYOUTS DO NOT REFLECT SPECIFIC REQUIREMENTS FOR THIS PROJECT UNLESS SPECIFICALLY STATED AS SUCH. VERIFY SIZES OF ALL COMPONENTS AND BOXES PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
6.	FIELD VERIFY THE SIZE OF ALL COMPONENTS AND BOXES PRIOR TO INSTALLATION. MODIFY PLATE SIZES IN THE CASE OF ALTERATIONS TO FIELD CONDITIONS.
7.	REFER TO SPECIFICATIONS FOR SUBMITTAL AND ADDITIONAL PANEL AND PLATE REQUIREMENTS.
CABLE TERMINATION NOTES:	
1.	ALL AUDIO TERMINATIONS SHOULD COMPLY WITH RANE CORPORATION RANENOTE 110 REFERENCE FOR SOUND SYSTEM INTERCONNECTION.
EQUIPMENT RACK NOTES:	
1.	REFER TO SPECIFICATIONS FOR RACK LAYOUT SUBMITTAL REQUIREMENTS.
2.	ANY RACK LAYOUTS OR INFORMATION RELATED TO EQUIPMENT RACKING CONTAINED IN THIS SET ARE FOR CONCEPT ONLY. VERIFY RACK LAYOUT FOR EQUIPMENT FURNISHED PRIOR TO SUBMITTAL OF SHOP DRAWINGS. REVISE AS REQUIRED FOR ALTERNATES ACCEPTED OR REJECTED.
3.	IF THERE ARE DIFFERENCES IN EQUIPMENT RACKING INFORMATION TO THAT SHOWN ON THE SIGNAL FLOW DIAGRAMS, SIGNAL FLOWS SHALL TAKE PRECEDENCE.
LOUDSPEAKER INSTALLATION NOTES:	
1.	ANY STRUCTURAL DETAILS, STRUCTURAL MEMBER TYPES, SIZES, AND ATTACHMENT METHODS CONTAINED IN THIS SET ARE SHOWN FOR CONCEPT ONLY. FINAL DESIGN, INCLUDING DOCUMENTATION STAMPED BY STRUCTURAL ENGINEER (PROVIDED AS PORTION OF SHOP DRAWING REQUIREMENTS), SHALL BE MADE BY THE CONTRACTOR AND SHALL BE VERIFIED BY THE OWNER AND AV CONSULTANT.
2.	REFER TO SPECIFICATIONS FOR ALL MOUNTING, INSTALLATION, ACCESS, AND SHOP DRAWING REQUIREMENTS.
3.	EXPOSED LOUDSPEAKER CIRCUITS UTILIZING STRUCTURAL STEEL PATHWAYS SHALL BE ROUTED HIGH WITHIN TRUSS SPACE OR WHERE OTHERWISE PROTECTED FROM DAMAGE. ROUTING SHALL MINIMIZE CIRCUIT LENGTH BETWEEN LOUDSPEAKER AND EQUIPMENT RACK WHERE FEASIBLE. NEATLY BUNDLE CIRCUITS AND FASTEN SECURELY TO STRUCTURE TO ENSURE PROPER SUPPORT AND PROTECTION. TO MINIMIZE DAMAGE FROM TEMPORARY RIGGING ACTIVITIES ASSOCIATED WITH SPECIAL EVENT SUPPORT, AVOID ROUTING CIRCUITS IN AREAS PRONE TO THIS USE, I.E. BOTTOM CHORDS OF TRUSSES. AVOID CONTACT OR CONFLICT WITH OTHER BUILDING ELEMENTS SUCH AS LIGHTING FIXTURES & BALLASTS, DUCTS, RIGGING, AND SHARP EDGES. CABLE COLOR SHALL MATCH SURROUNDING ELEMENTS.

CONDUIT/CIRCUIT GROUP DIVISIONS				
GROUP	DESCRIPTIONS	LEVEL	BANDWIDTH	
A	CONTROL CIRCUITS DATA CIRCUITS FIBER CIRCUITS	0-28 VOLT INTO <50 KOHMS 2 VOLT PEAK-TO-PEAK INTO 100 OHMS	0 Hz TO 250 MHz 0 Hz TO 500 MHz	
L	LINE LEVEL AUDIO CIRCUITS	-30dBu TO +24dBu	20 Hz TO 20kHz	
M	MICROPHONE LEVEL AUDIO CIRCUITS	BELOW -30dBu	20 Hz TO 20kHz	
P	PRODUCTION INTERCOM COMMUNICATION CIRCUITS	-30dBu TO +24dBu	20 Hz TO 20kHz	
S	SPEAKER LEVEL AUDIO CIRCUITS INCLUDING BOTH LOW IMPEDANCE AND HIGH IMPEDANCE (70 VOLT) TYPES	GREATER THAN +24dBu	20 Hz TO 20kHz	
V	VIDEO CIRCUITS	1 VOLT PEAK-TO-PEAK INTO 75 OHMS	0 Hz TO 250 MHz	
W	RF LEVEL CIRCUITS INCLUDING WIRELESS MICROPHONE, ANTENNA CABLE, SATELLITE, ASSISTED LISTENING SYSTEM, AND TV DISTRIBUTION	GREATER THAN +24dBu	5 MHz TO 3GHz	

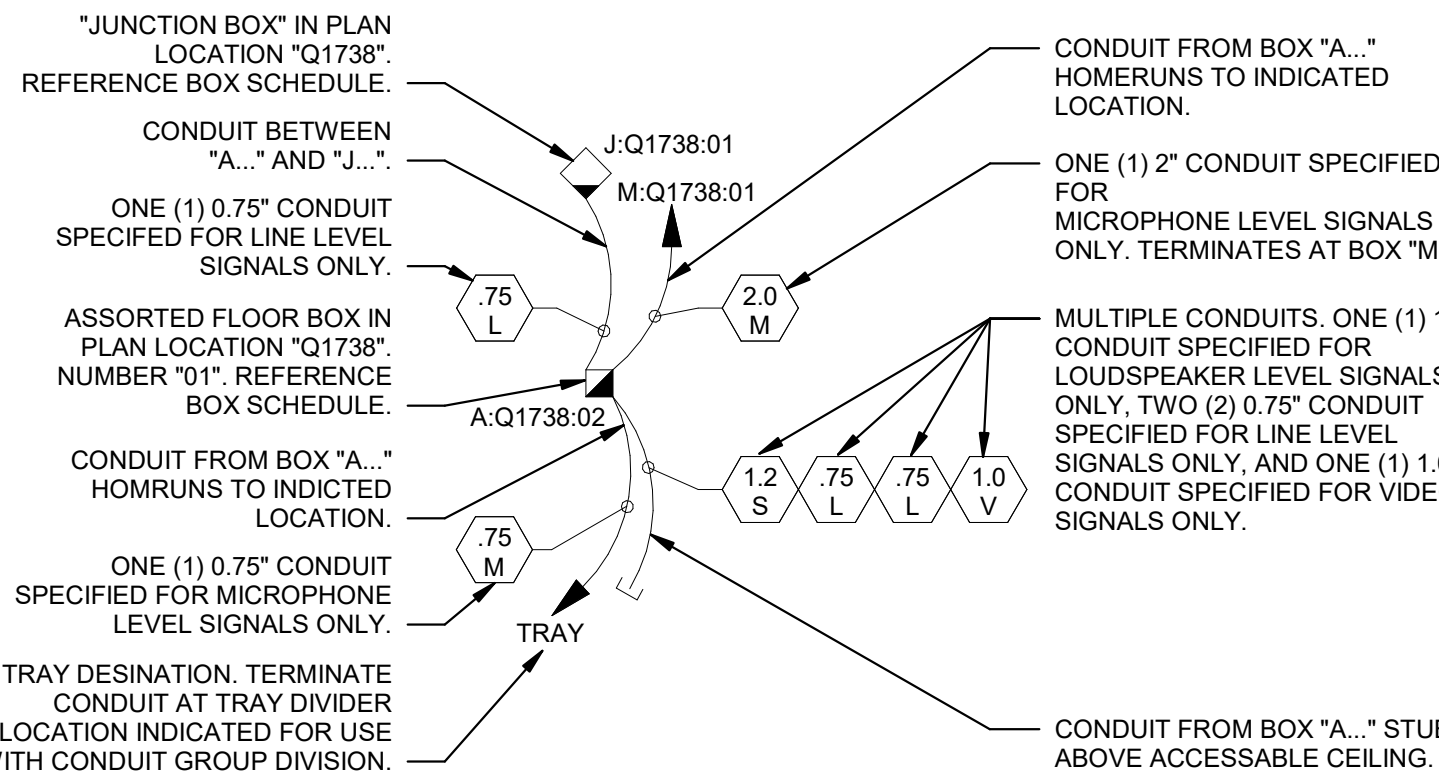
## CONDUIT ROUTING AND SEPARATION

BOTH EMT							
EMT	RIGID	M	L, P	W	S	V	
M	-	ADJACENT	6"	12"	12"	12"	
L, P	-	6"	ADJACENT	12"	12"	6"	
W	-	12"	12"	ADJACENT	ADJACENT	6"	
S	-	12"	12"	ADJACENT	ADJACENT	6"	
V	-	12"	6"	6"	6"	ADJACENT	
POWER CONDUIT UNDER 60A		24"	24"	24"	24"	24"	
POWER CONDUIT 60A		-	36"	36"	36"	36"	
POWER CONDUIT 120A		-	48"	48"	48"	48"	
POWER CONDUIT 240A		-	RIGID	RIGID	RIGID	RIGID	
POWER CONDUIT 400A		-	RIGID	RIGID	RIGID	RIGID	

POWER IN RIGID							
EMT	RIGID	M	L, P	W	S	V	
M	-	ADJACENT	6"	12"	12"	12"	
L, P	-	6"	ADJACENT	12"	12"	6"	
W	-	12"	12"	ADJACENT	ADJACENT	6"	
S	-	12"	12"	ADJACENT	ADJACENT	6"	
V	-	12"	6"	6"	6"	ADJACENT	
-	POWER CONDUIT UNDER 60A	4"	4"	4"	4"	4"	
-	POWER CONDUIT 60A	8"	8"	8"	8"	8"	
-	POWER CONDUIT 120A	12"	12"	12"	12"	12"	
-	POWER CONDUIT 240A	24"	24"	24"	24"	24"	
-	POWER CONDUIT 400A	48"	48"	48"	48"	48"	

BOTH IN RIGID							
EMT	RIGID	M	L, P	W	S	V	
-	M	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	
-	L, P	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	
-	W	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	
-	S	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	
-	V	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT	
-	POWER CONDUIT UNDER 60A	1"	1"	1"	1"	1"	
-	POWER CONDUIT 60A	2"	2"	2"	2"	2"	
-	POWER CONDUIT 120A	4"	4"	4"	4"	4"	
-	POWER CONDUIT 240A	8"	8"	8"	8"	8"	
-	POWER CONDUIT 400A	16"	16"	16"	16"	16"	

## PLAN BOX & CONDUIT EXAMPLE

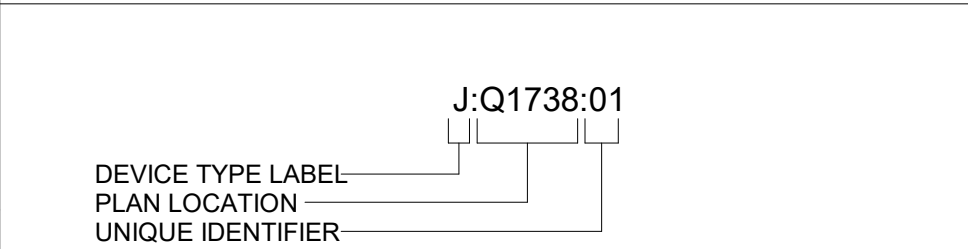


NOTE: FOR TYPICAL BOXES, REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INSTRUCTIONS. FOLLOW CONDUIT REQUIREMENTS AS LISTED IN SCHEDULE AND ANY ADDITIONAL NOTES AS INDICATED ON PLANS.

PLAN LEGEND	
BOX AND PLAN SYMBOLS	
	WALL BOX. "X" INDICATES FUNCTION OF BOX (REFER TO BOX LABEL LEGEND). "##" INDICATES BOX DESIGNATION.
	FLOOR BOX. SIMILAR TO ABOVE.
	POKE THRU. SIMILAR TO ABOVE.
	CEILING MOUNTED BOX. SIMILAR TO ABOVE.
	FLUSH MOUNTED CEILING LOUDSPEAKER. "S##" DESIGNATOR INDICATES LOUDSPEAKER IDENTIFICATION INFORMATION.
	PENDANT MOUNTED LOUDSPEAKER. "S##" DESIGNATOR INDICATES LOUDSPEAKER IDENTIFICATION INFORMATION.
	CEILING MOUNTED MICROPHONE. SIMILAR TO ABOVE. NO BACK BOX.
	CEILING MOUNTED CAMERA. SIMILAR TO ABOVE. NO BACK BOX.
TYPICAL BOX SYMBOLS	
	WALL BOX. "YY" INDICATES TYPE. REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INFORMATION AND AS INDICATED ON PLANS AND KEY NOTES.
	FLOOR BOX. CEILING BOX. SIMILAR TO ABOVE. "YY" INDICATES SYMBOL TYPE. "F#" INDICATES UNIQUE IDENTIFIER.
CONDUIT LEGEND	
	INDICATES ASSORTED SIGNALS ONLY. "A" SPECIFIES SIZE OF CONDUIT.
	INDICATES LINE LEVEL SIGNALS ONLY. "L" SPECIFIES SIZE OF CONDUIT.
	INDICATES MICROPHONE LEVEL SIGNALS ONLY. "M" SPECIFIES SIZE OF CONDUIT.
	INDICATES PRODUCTION INTERCOM LEVEL SIGNALS ONLY. "P" SPECIFIES SIZE OF CONDUIT.
	INDICATES LOUDSPEAKER LEVEL SIGNALS ONLY. "S" SPECIFIES SIZE OF CONDUIT.
	INDICATES VIDEO SIGNALS ONLY. "V" SPECIFIES SIZE OF CONDUIT.
	INDICATES WIRELESS/RF SIGNALS ONLY. "W" SPECIFIES SIZE OF CONDUIT.
	0.75" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
	1" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
	1.25" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
	1.5" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
	2" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
	2.5" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
	3" CONDUIT. X INDICATES SIGNAL TYPE. SEE ABOVE.
	CONDUIT PATH.
	CONDUIT PATH CONTINUES ON TO DESTINATION AS INDICATED.
	CONDUIT STUB TO ACCESSIBLE PORTION OF CEILING. BUSH CONDUIT ENDS.
	CONDUIT STUB TO BELOW RAISED FLOOR IF PRESENT, OTHERWISE BELOW FLOOR SLAB. BUSH CONDUIT ENDS.
	CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION
	EXPOSED CABLE PATH. NO CONDUIT.
	CABLE TRAY. SIZE AS INDICATED ON PLANS.
REFER TO BOX SCHEDULE FOR ADDITIONAL INFORMATION.	

LABEL LEGEND	
A	ASSORTED
B	BROADCAST
C	CONTROL
D	DSS SATELLITE
E	EXISTING
F	FUTURE / BY OTHERS
G	GAME CLOCK
J	JUNCTION / PULL BOX
K	CAMERA
L	LINE-LEVEL AUDIO
M	MICROPHONE-LEVEL AUDIO
P	PRODUCTION INTERCOM
R	EQUIPMENT RACK
S	LOUDSPEAKER-LEVEL AUDIO
T	TELEVISION DISTRIBUTION
V	VIDEO
W	WIRELESS / RF
DS	DIGITAL SIGNAGE
DV	DIRECT VIEW LED
FP	FLAT PANEL DISPLAY
LS	LOUDSPEAKER
PR	PROJECTOR
PS	PROJECTION SCREEN
TV	TELEVISION
VW	VIDEO WALL

## LABEL STANDARD



CALL OUTS	
ENLARGED PLAN CALLOUT	
NOT IN SCOPE	



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**LEE'S SUMMIT, MISSOURI 64064**

REVISIONS:

#	Description	Date
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10/26/2022

PROJECT NO:	2150001291
DATE:	10.26.2022
DRAWN BY:	J.ROSE
CHK'D BY:	M.MAURER

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**AUDIO-VIDEO**  
**GENERAL NOTES**

**TA000**

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FILE PATH: BIM 360://182252P21001\_LeesSummitFireStation\_#4 and #5/2150001291 LSNO FIRE STATION\_#5 v19.rvt

MARK D. MAURER

E

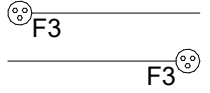
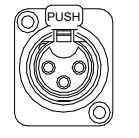

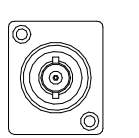
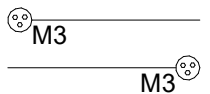
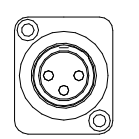
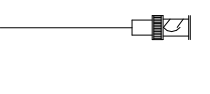

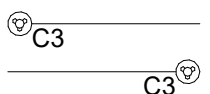
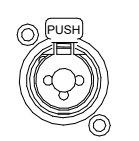


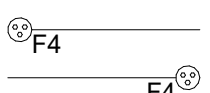
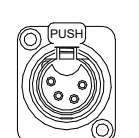
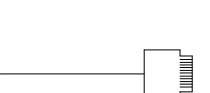

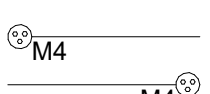
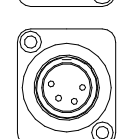

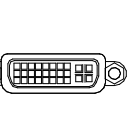
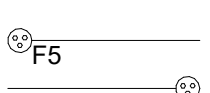
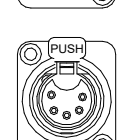
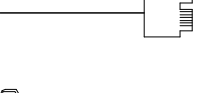
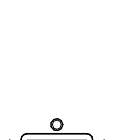
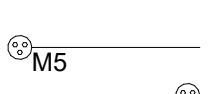
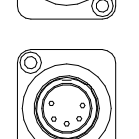


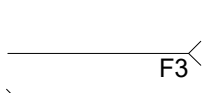
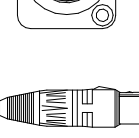

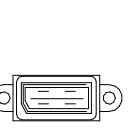
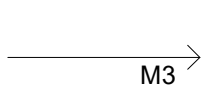
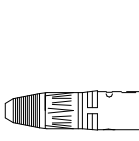
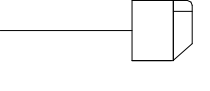


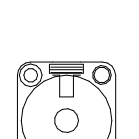

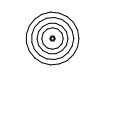

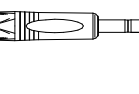



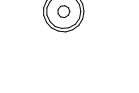






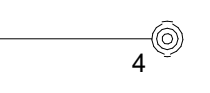
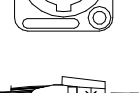

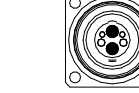
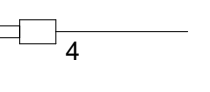
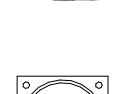

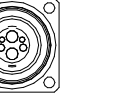
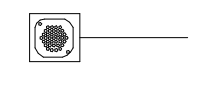



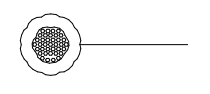





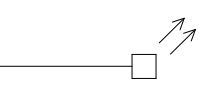

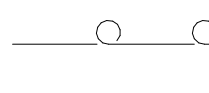
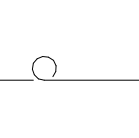

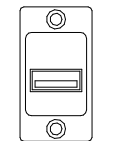


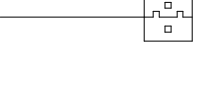
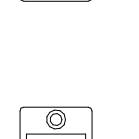



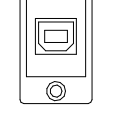



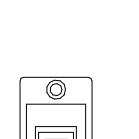

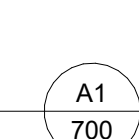

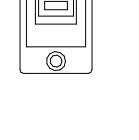




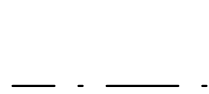







D

C

B

A

## AUDIO-VIDEO SYMBOLS

AUDIO			VIDEO		
SIGNAL FLOW	PANEL/PLATE	DESCRIPTION	SIGNAL FLOW	PANEL/PLATE	DESCRIPTION
		FEMALE 3-PIN XLR PANEL MOUNT CONNECTOR			BNC PANEL MOUNT CONNECTOR
		MALE 3-PIN XLR PANEL MOUNT CONNECTOR			CABLE END BNC CONNECTOR
		FEMALE COMBO 3-PIN XLR AND 1/4" PANEL MOUNT CONNECTOR			75 OHM BNC TERMINATOR
		FEMALE 4-PIN XLR PANEL MOUNT CONNECTOR			RGBHV HD-15 PANEL MOUNT CONNECTOR
		MALE 4-PIN XLR PANEL MOUNT CONNECTOR			RGBHV HD-15 CABLE MOUNT CONNECTOR
		FEMALE 5-PIN XLR PANEL MOUNT CONNECTOR			DVI PANEL MOUNT CONNECTOR
		MALE 5-PIN XLR PANEL MOUNT CONNECTOR			DVI CABLE MOUNT CONNECTOR
		FEMALE XLR CABLE MOUNT CONNECTOR (NUMBER BELOW SYMBOL INDICATES NUMBER OF PINS)			HDMI PANEL MOUNT CONNECTOR
		MALE XLR CABLE MOUNT CONNECTOR (NUMBER BELOW SYMBOL INDICATES NUMBER OF PINS)			HDMI CABLE MOUNT CONNECTOR
		1/4" 3-CONDUCTOR PANEL MOUNT CONNECTOR			DISPLAYPORT PANEL MOUNT CONNECTOR
		1/4" 3-CONDUCTOR CABLE MOUNT CONNECTOR			DISPLAYPORT CABLE MOUNT CONNECTOR
		1/8" 3-CONDUCTOR MINI PANEL MOUNT CONNECTOR			F-STYLE RF PANEL MOUNT CONNECTOR
		1/8" 3-CONDUCTOR MINI CABLE MOUNT CONNECTOR			F-STYLE RF CABLE MOUNT CONNECTOR
		SPEAKON JACK, 2-CONDUCTOR BLANK, 4-CONDUCTOR SHOWN			VIDEO PATCH PANEL JACK
		SPEAKON PLUG, SIMILAR TO ABOVE			TRIAx MALE
		MALE DT12 PANEL MOUNT CONNECTOR			TRIAx FEMALE
		FEMALE DT12 PANEL MOUNT CONNECTOR			SMPTE 304 MALE
					SMPTE 304 FEMALE
CONTROL			DEVICES AND CONNECTIONS		
SIGNAL FLOW	PANEL/PLATE	DESCRIPTION	SIGNAL FLOW	PANEL/PLATE	DESCRIPTION
		COM (DB-9) PANEL MOUNT CONNECTOR			CONNECTION TO CHASSIS GROUND
		COM (DB-9) CABLE MOUNT CONNECTOR			RUBBER JACKETED EXTENSION CABLE
		IR EMITTER			PARALLEL CONNECTION OR CHANGE IN WIRE TYPE
		USB TYPE A PANEL MOUNT CONNECTOR			ANTENNA
		USB TYPE A CABLE MOUNT CONNECTOR			PATCH POINT, CONNECT TO PATCH PANEL PER SPECIFICATION REQUIREMENTS
		USB TYPE B PANEL MOUNT CONNECTOR			CONNECTION BUBBLE UPPER DESIGNATION REFERS TO CONNECTION LABEL LOWER DESIGNATION REFERS TO THE SHEET NUMBER ON WHICH THE CONNECTION IS CONTINUED.
		USB TYPE B CABLE MOUNT CONNECTOR			EQUIPMENT / TERMINATIONS WITHIN A COMMON LOCATION AS LABELED.
		USB TYPE C PANEL MOUNT CONNECTOR			ALTERNATE OUTLINE
		USB TYPE C CABLE MOUNT CONNECTOR			
NOTE: PANEL & PLATE CONNECTORS ARE NOT SHOWN TO SCALE.					
CALL OUTS					
ENLARGED PLAN CALLOUT					
NOT IN SCOPE					

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

## WIRE TYPE AND ABBREVIATIONS

(NOTE 1)	ABBREVIATION DEFINITION OR SIGNAL TYPES	WIRE TYPE	(NOTE 2)
AB	AUDIO TRANSPORT OVER MANUF. PROPRIETARY (NON-IP) PROTO. - REQ. STP	CAT6 STP	90m
AEC	ACOUSTIC ECHO CANCELING SIGNAL	-	-
AES	DIGITAL AUDIO OVER AES FORMAT - BALANCED UNBALANCED	22 AWG	100m
AN	AUDIO TRANSPORT OVER IP STANDARD PROTOCOL REQUIRING STP	RG-6	1000m
CC	RELAY OR CONTACT CLOSURE CONTROL SIGNAL	CAT6 STP	90m
Com	CONTROL SIGNAL (RS232, RS422, RS485)	22 AWG	
Cii	CONTROL SIGNAL OVER MANUF. PROPRIETARY PROTOCOL	(NOTE 3)	
D	DVI VIDEO SIGNAL	PREMADE	25'
DM	DIGITAL MEDIA AUDIO/VIDEO/CONTROL SIGNAL	CAT6 STP	90m
DP	DISPLAY PORT SIGNAL	PREMADE	3m
FW	FIREWIRE IEEE 1394	PREMADE	4.5m
GPI0	GPI/GPO/GPIO - GENERAL PURPOSE INPUT AND/OR OUTPUT	(NOTE 4)	
H	HDMI VIDEO/AUDIO SIGNAL	(NOTE 3)	
HDSOI	HD-SDI PER SMPTE 292M	RG-59	300'
		RG-6	370'
		RG-11	580'
IC	INTERCOM (PRODUCTION)	22 AWG	
IR	INFRARED CONTROL SIGNAL	PREMADE	
I/O	VARIABLE VOLTAGE CONTROL SIGNAL	22 AWG	
L	LINE LEVEL AUDIO SIGNAL	22 AWG	
LAN	ETHERNET	CAT6	90m
LS	LOUDSPEAKER LEVEL AUDIO SIGNAL 2/4/8/16OHM	(NOTE 5)	
LS70	LOUDSPEAKER LEVEL AUDIO SIGNAL 70V	(NOTE 5)	
M	MICROPHONE LEVEL AUDIO SIGNAL	22 AWG	
MADI	MADI SIGNAL PROTOCOL	RG-6	100m
		SMF	40km
MIDI	MIDI CONTROL SIGNAL	PREMADE	
MMF	MULTI-MODE FIBER	(NOTE 3)	
Mono	MONO AUDIO SIGNAL	22 AWG	
Phone	TELEPHONE SIGNAL	CAT3	
R	RGBHV VIDEO SIGNAL	PREMADE	25'
Ref	REFERENCE/SYNC/BLACK - BLACK BURST OR TRI-LEVEL SYNCHRONIZATION	RG-59	
RF	RADIO FREQUENCY	RG-59	IN RACK
	RF WIRELESS MIC ANTENNA (-5dB @ 800MHz NO AMP)	RG-6X	40'
	RF WIRELESS MIC ANTENNA (-5dB @ 800MHz NO AMP)	RG-213	65'
	RF WIRELESS MIC ANTENNA (-5dB @ 800MHz NO AMP)	RG-8/U	120'
SAT IF	SATELLITE INTERMEDIATE FREQUENCY SIGNAL (TYPICALLY L-BAND)	RG-59	IN RACK
		RG-6	DROP
		RG-11	DISTRO
SDI	SERIAL DIGITAL INTERFACE PER SMPTE 259M	PREMADE	950'
		RG-6	1150'
		RG-11	1850'
SMF	SINGLE-MODE FIBER	(NOTE 3)	2.5Km
SPDIF	DIGITAL AUDIO OVER S/PDIF	PREMADE	10m
St	STEREO AUDIO SIGNAL	PREMADE	5m
		22 AWG	
TLY	TALLY	24 AWG	
TB	THUNDERBOLT SIGNAL	PREMADE	3m
TC	TIMECODE	RG-59	
TIE LINES	MICROPHONE LEVEL	22 AWG	
	LINE LEVEL	22 AWG	
	LOUDSPEAKER LEVEL	(NOTE 4)	
	VIDEO	(NOTE 4)	
TPA	AUDIO SIGNAL OVER TWISTED PAIR	CAT6	90m
TPC	CONTROL SIGNAL OVER TWISTED PAIR	CAT6	90m
TPT	TELEVISION SIGNAL OVER TWISTED PAIR	CAT6	90m
TPV	VIDEO SIGNAL OVER TWISTED PAIR	CAT6	90m
TRIAx	TRIAx VIDEO CAMERA CABLE	RG-59/U	IN ROOM
		RG-11/U	2950'
TV	CABLE TELEVISION DISTRIBUTION SIGNAL	RG-59	IN RACK
		RG-6	DROP
		RG-11	DISTRO
		1/2" HARDLINE	TRUNK
USB	UNIVERSAL SERIAL BUS SIGNAL	PREMADE	
USB1	USB VERSION 1.0	PREMADE	5m
USB2	USB VERSION 2.0	PREMADE	5m
USB3	USB VERSION 3.0	PREMADE	5m
V	COMPOSITE VIDEO SIGNAL	RG-59	750'
		RG-6	900'
		RG-11	1200'
		RG-59	125'
		RG-6	200'
		RG-59	200'
		RG-6	250'
		RG-11	390'
		(NOTE 4)	
Y	COMPONENT VIDEO SIGNAL		
3GSDI	3G-SDI PER SMPTE 424M		
6GSDI	6G-SDI		
*	DENOTES PORTION OF ITEM		
NOTES			
COMPLY WITH ALL MANUFACTURER REQUIREMENTS.			
1 SIGNAL FLOW SIGNAL TYPE ABBREVIATION.			
2 CABLE DISTANCE LIMITATION. CONTACT CONSULTANT FOR CONDITIONS OUTSIDE PARAMETERS.			
3 REFER TO SPECIFICATION FOR WIRE TYPE.			
4 REFER TO SIGNAL FLOWS FOR WIRE TYPE.			
5 REFER TO SCHEDULES FOR WIRE TYPE.			
SIGNAL FLOW BLOCK LEGEND			
			
Block Description			
SPECIFICATION REFERENCE			
DEVICE IDENTIFICATION AND LABEL			
SIGNAL TYPE (TYPICAL) SEE WIRE TYPE AND ABBREVIATIONS SCHEDULE			
PRODUCT REFLECTING BASIS OF DESIGN			



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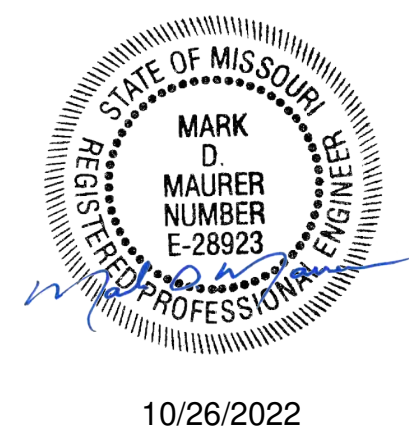
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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
5031 NORTHEAST LAKEWOOD WAY  
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

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DATE: 10.26.2022  
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CHK'D BY: M.MAURER

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**AUDIO-VIDEO GENERAL SYMBOLS**

**TA001**

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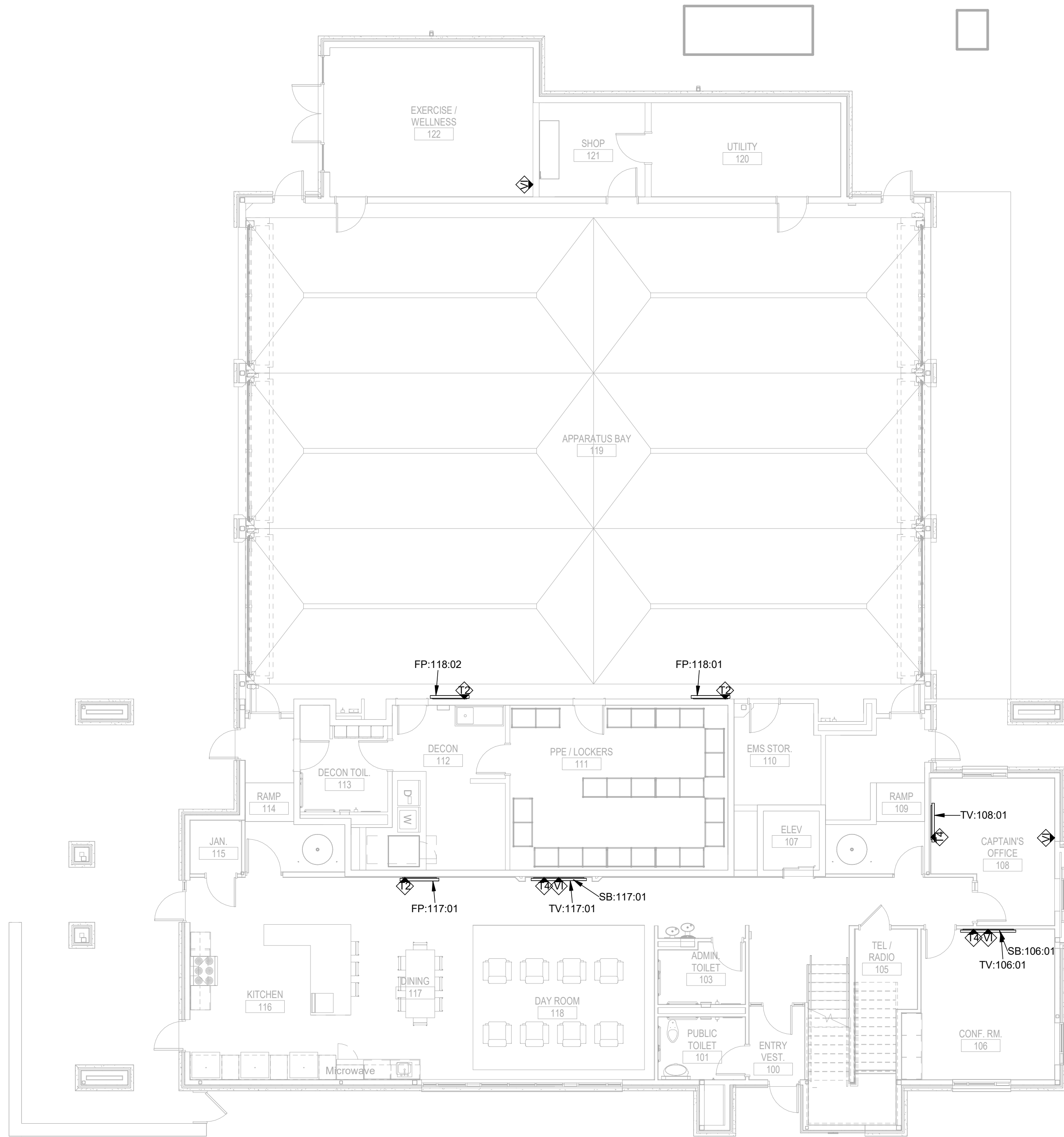
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**A1** AUDIO VIDEO LEVEL 1 FLOOR PLAN  
1/8" = 1'-0"  
0 4' 8' 16'  
PLAN NORTH

**HENDERSON**  
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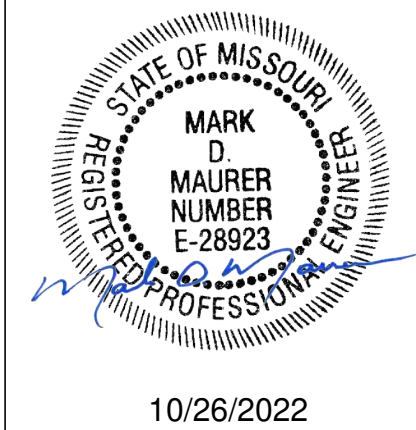
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**AUDIO-VIDEO**  
**LEVEL 1 PLAN**

**TA101**

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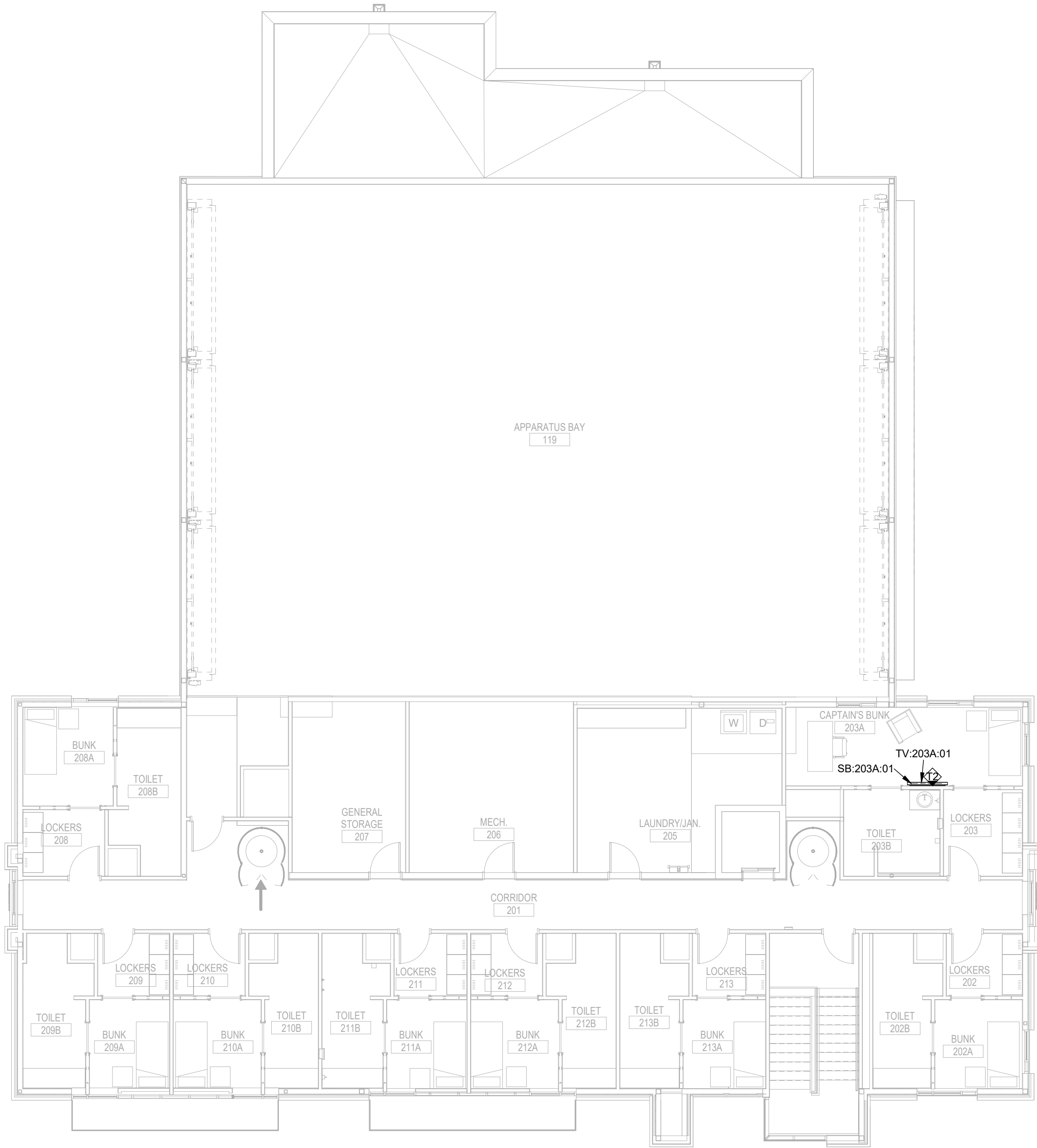
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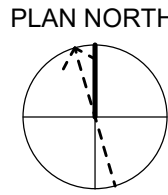
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**A1** AUDIO VIDEO LEVEL 2 FLOOR PLAN



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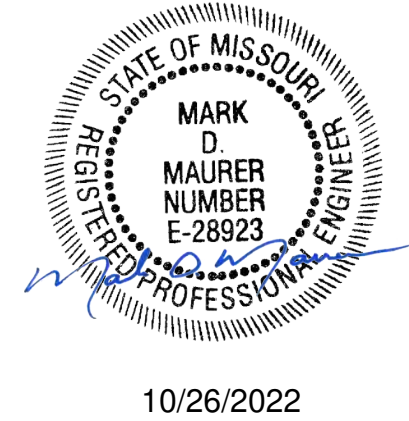
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**AUDIO-VIDEO**  
**LEVEL 2 PLAN**

**TA102**

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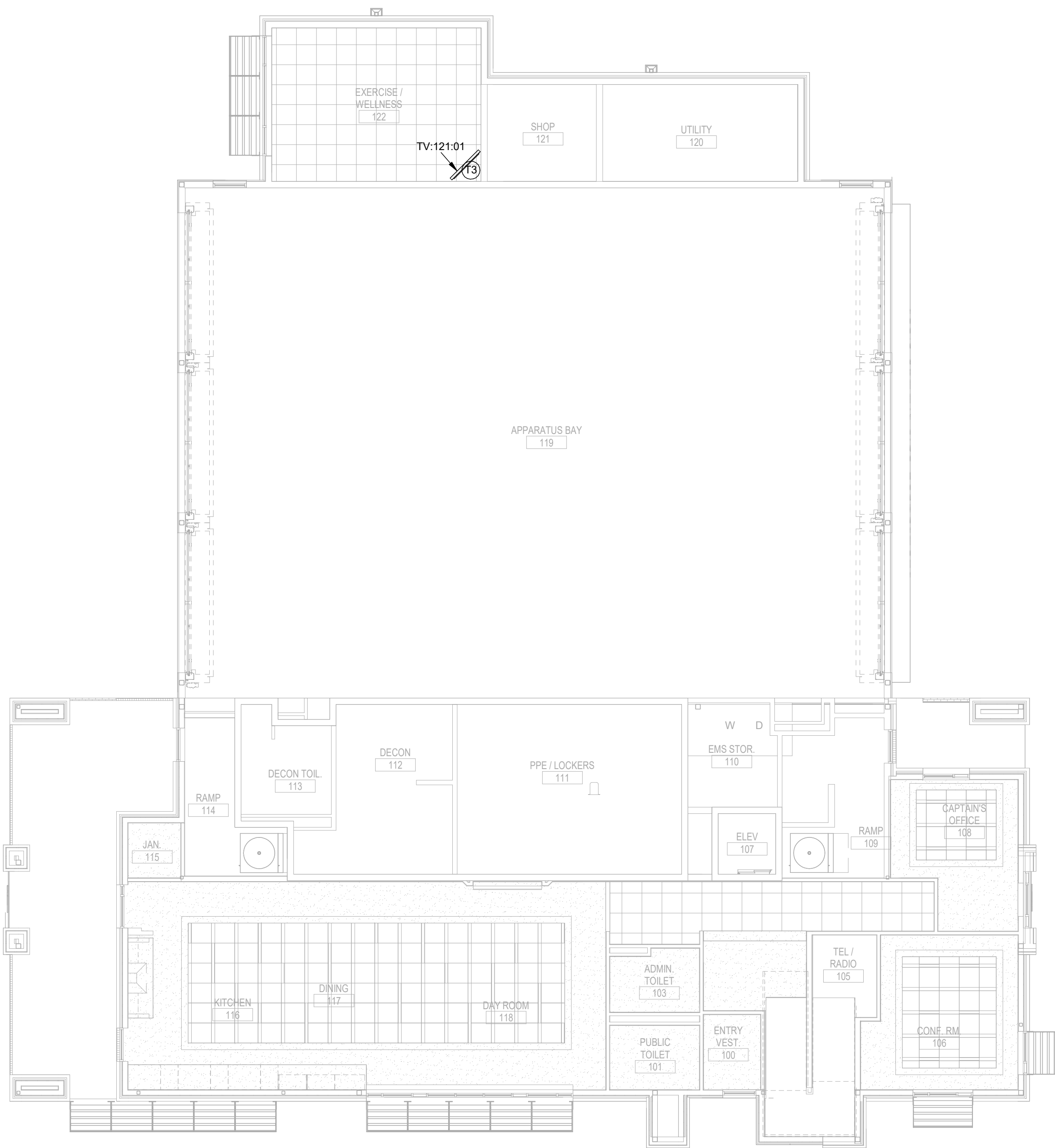
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**AUDIO-VIDEO**  
**LEVEL 1 RCP**

**TA201**

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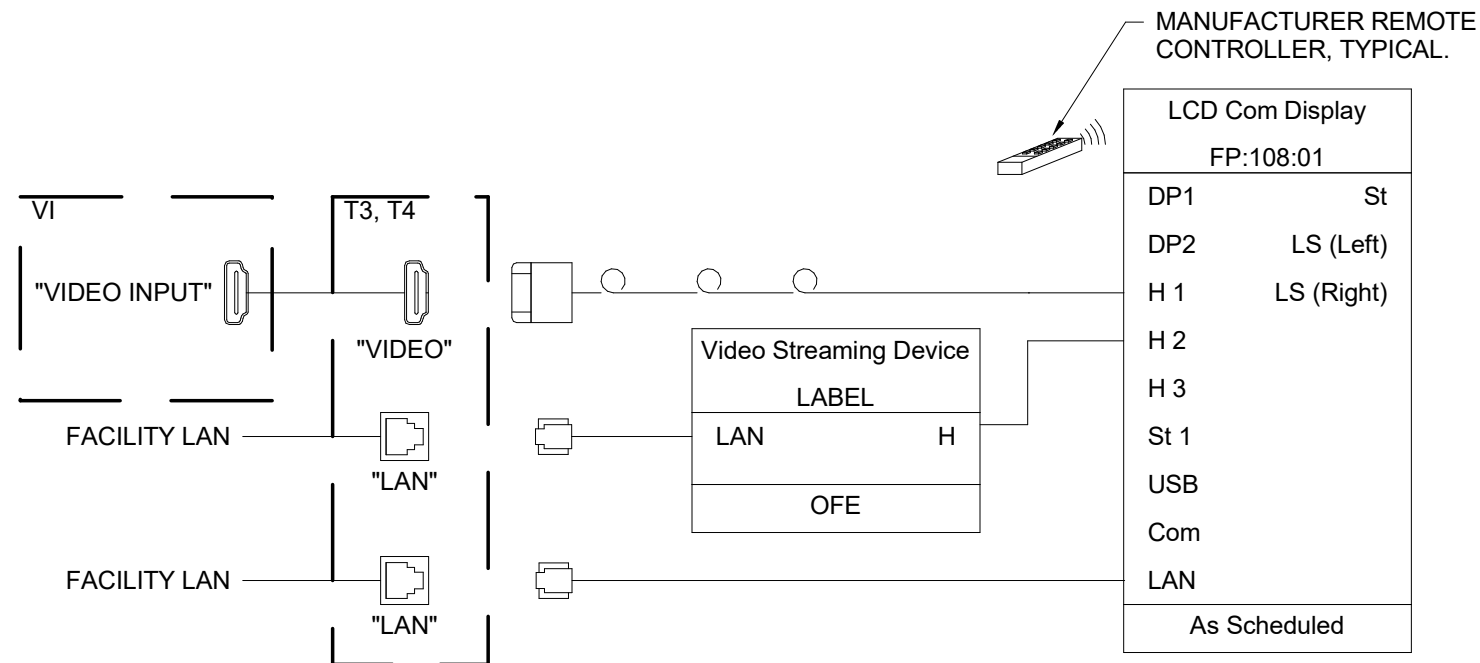


AUDIO-VIDEO BOX SCHEDULE - TYPICALS											
BOX FUNCTION		BOX PROPERTIES					BOX ACCESSORIES			CONDUIT REQUIREMENTS	
ID	DESCRIPTION	TYPE	B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT (CENTER OF BOX)	MOUNTING	COVER	INSERTS	SIZE	ROUTE	NOTES
T2	TELEVISION CONNECTION BOX	2-GANG/2-GANG	RACO	260 W/ 818	MATCH CENTER HEIGHT OF DISPLAY	FLUSH	BLANK	NONE	1.25" C	ABOVE ACESSIBLE CEILING OR AS HIGH AS POSSIBLE TO CEILING DECK IN ROOM	
T3	TELEVISION CONNECTION CEILING BOX	2-GANG/2-GANG	RACO	167 W/ 818	0"	CEILING FLUSH	BLANK	NONE	-	-	
T4	TELEVISION CONNECTION BOX	2-GANG/2-GANG	RACO	260 W/ 818	MATCH CENTER HEIGHT OF DISPLAY	FLUSH	BLANK	NONE	1.25" C	ABOVE ACESSIBLE CEILING OR AS HIGH AS POSSIBLE TO CEILING DECK IN ROOM	
VI	ASSORTED CONNECTION WALL BOX	2-GANG/1-GANG	RACO	260 W/ 843	18"	FLUSH	BLANK	NONE	1.25" C	ABOVE ACESSIBLE CEILING OR AS HIGH AS POSSIBLE TO CEILING DECK IN ROOM	

AUDIO-VIDEO FLAT PANEL DISPLAY SCHEDULE									
DISPLAY PROPERTIES				MOUNTING REQUIREMENTS			DISPLAY RESPONSIBILITY		
ID	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT AFF. (CENTER OF DISPLAY)	TYPE	FURNISHED BY	INSTALLED BY	PROVIDED BY	NOTES
FP:117:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING ADA	CONTRACTOR	CONTRACTOR	OWNER	
FP:118:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER	
FP:118:02	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER	
TV:106:01	LCD COMM DISPLAY - 2160/75	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER	
TV:108:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER	
TV:117:01	LCD COMM DISPLAY - 2160/75	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING ADA	CONTRACTOR	CONTRACTOR	OWNER	
TV:121:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	102"	CEILING - POLE	CONTRACTOR	CONTRACTOR	OWNER	
TV:203A:01	LCD COMM DISPLAY - 2160/55	ONWER FURNISHED	ONWER FURNISHED	60"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER	

AUDIO-VIDEO LOUDSPEAKER SCHEDULE													
ID	LOUDSPEAKER PROPERTIES					LOUDSPEAKER MOUNTING		ORIENTATION			ENCLOSURE/HORN		NOTES
	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	IMPEDANCE (OHM)	70V TAP (WATTS)	MOUNTING CONDITION	HEIGHT	YAW	PITCH	ROLL	ROLL ENCL. 90	ROTATE HORN 90	

SB:106:01	SB 8 4x2 - SP	JBL	PSB-1	8	-	SURFACE	38"	0.00°	0.00°	0.00°	No	No	
SB:117:01	SB 8 4x2 - SP	JBL	PSB-1	8	-	SURFACE	38"	0.00°	0.00°	0.00°	No	No	
SB:203A:01	SB 8 4x2 - SP	JBL	PSB-1	8	-	SURFACE	44"	0.00°	0.00°	0.00°	No	No	

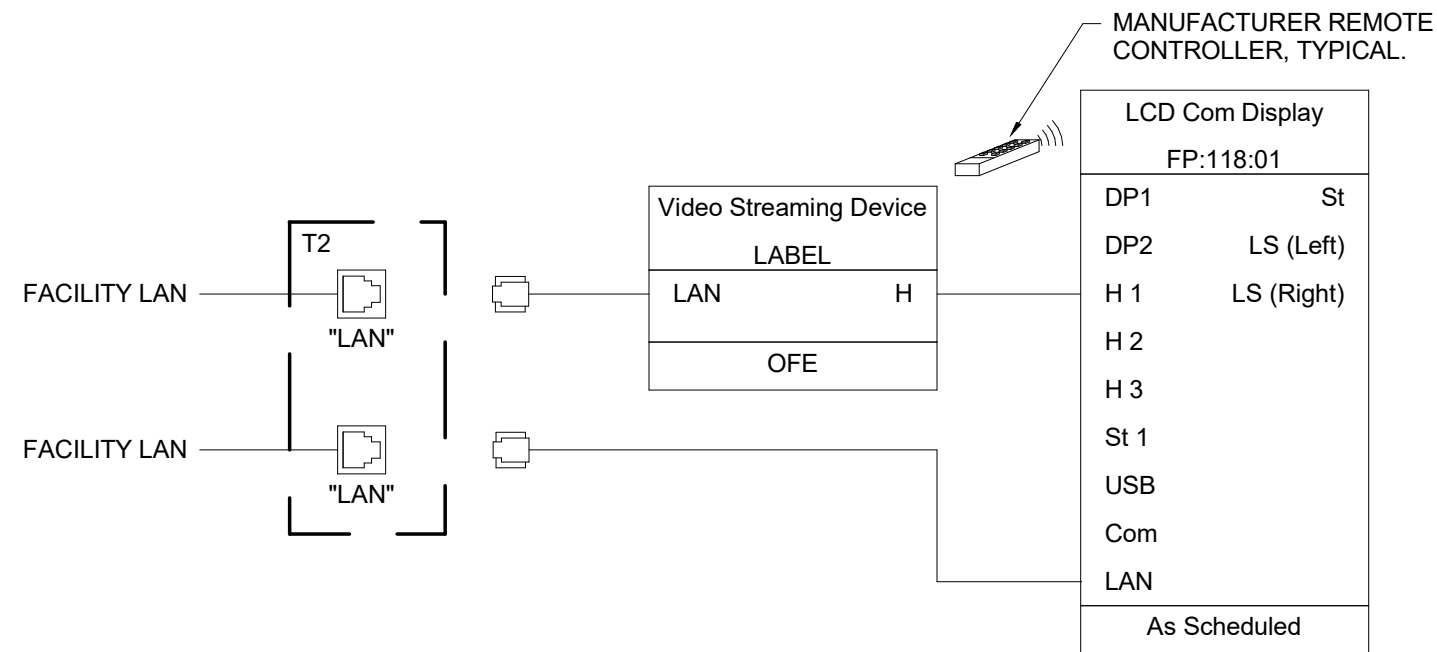


**B1** CAPTAIN'S OFFICE 108 DISPLAY WITH LOCAL HDMI, FP:108:01 SHOWN

NOT TO SCALE

NOTES:

1. SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN, PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS:
  - 1.1 EXERCISE / WELLNESS 122 (FP:122:01)

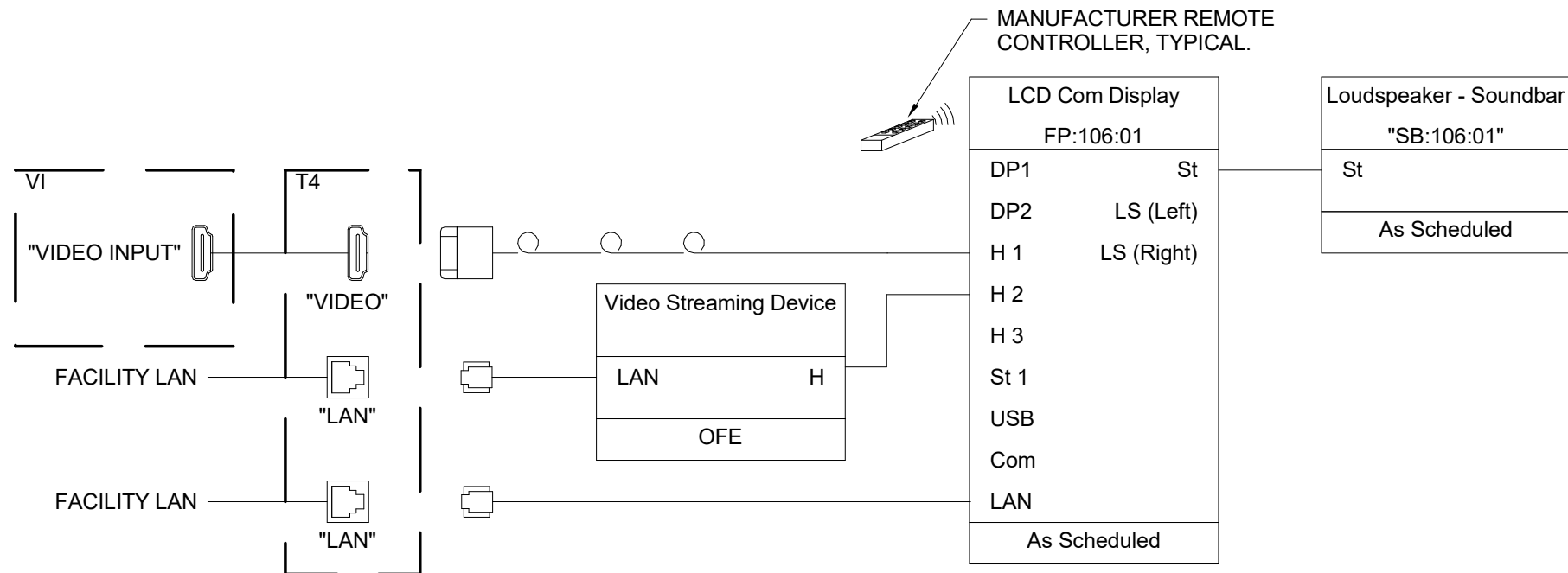


**A1** APPARATUS BAY 118 DISPLAY, TYPICAL FP:118:01 SHOWN

NOT TO SCALE

NOTES:

1. SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN, PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS:
  - 1.1 APPARATUS BAY 118 (FP:118:02)
  - 1.2 DINNING 117 (FP:117:01)

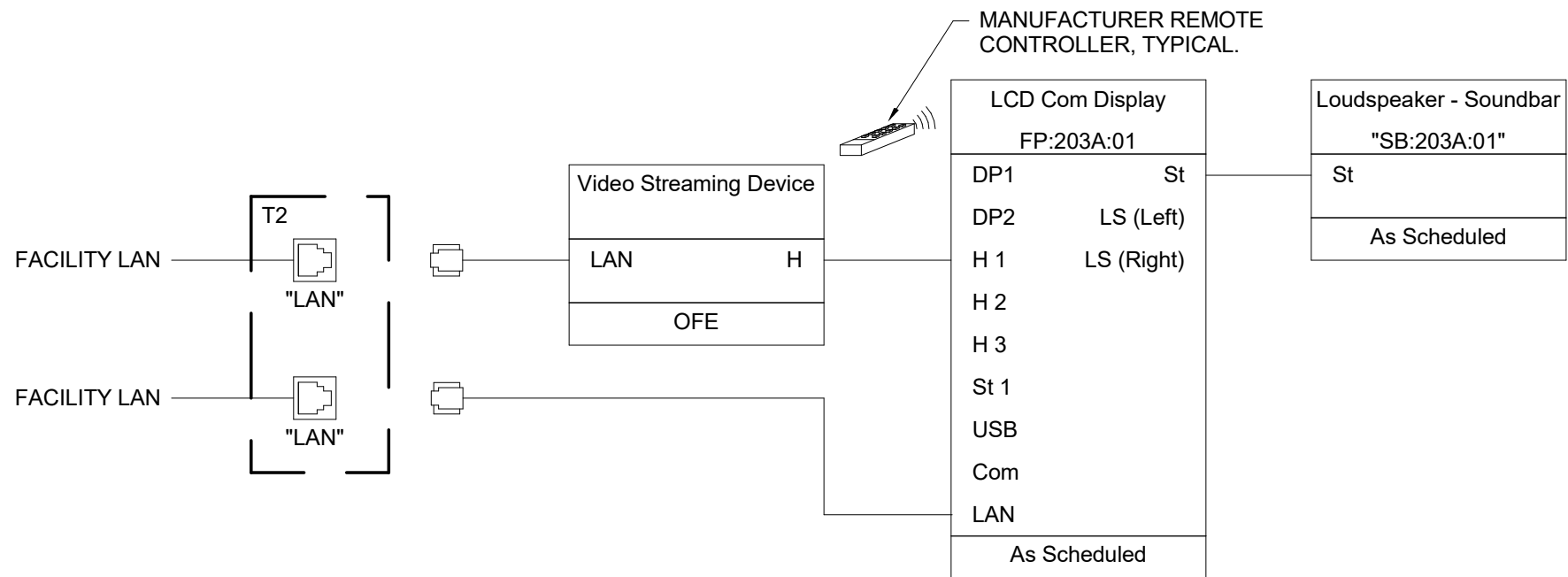


**B4** SINGLE DISPLAY WITH LOCAL HDMI, TYPICAL TRAINING/SMALL CONFERENCE ROOM 106 SHOWN

NOT TO SCALE

NOTES:

1. SYSTEM/ROOM SHOWN IS TYPICAL OF MULTIPLE SYSTEMS/ROOMS. IN ADDITION TO THE SYSTEM/ROOM SHOWN, PROVIDE ONE SYSTEM THIS TYPE FOR THE FOLLOWING ROOMS:
  - 1.1 DAY ROOM 117



**A4** CAPTAIN'S BUNK 203 DISPLAY

NOT TO SCALE



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100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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10/26/2022

PROJECT NO: 2150001291  
DATE: 10.26.2022  
DRAWN BY: J.ROSE  
CHK'D BY: M.MAURER

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**TA600**



TELECOMMUNICATIONS SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

V2.00

STANDARD MOUNTING HEIGHTS

TELECOM BACKBOARD (BOTTOM OF BACKBOARD)	4"
LADDER RACK IN TELECOM ROOMS (BOTTOM OF DEVICE)	90"
CABLE TRAY / CONDUIT AFC (BOTTOM OF PATHWAY)	3"(MIN)
LIGHT FIXTURE IN TELECOM ROOMS (BOTTOM OF DEVICE)	108"(MIN)
DATA WALL OUTLET (CENTERLINE)	48"
TELEVISION OUTLET	SAME AS ADJACENT DEVICE, UNO
REFER TO ARCH DRAWINGS	
TMGB/TGB (CENTERLINE)	84"
WALL CLOCK (CENTERLINE)	84"
INTERCOM (CENTERLINE)	48"

USE THE DEFAULT MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) TO BOTTOM OF OUTLET BOX. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ABBREVIATIONS

A	AMPERES	LAN	LOCAL AREA NETWORK
ADA	AMERICANS WITH DISABILITIES ACT	LCC	LIMITED COMBUSTIBLE CABLE
AFC	ABOVE FINISHED CEILING	LEC	LOCAL EXCHANGE CARRIER
AFF	ABOVE FINISHED FLOOR	LF	LINEAR FEET
AFG	ABOVE FINISHED GRADE	MAN	METROPOLITAN AREA NETWORK
AHJ	AUTHORITY HAVING JURISDICTION	MATV	MASTER ANTENNA TELEVISION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MC	MAIN CROSS-CONNECT
AP	ACCESS POINT	MDF	MAIN DISTRIBUTION FRAME
AV	AUDIO-VIDEO	MFR	MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MH	MAINTENANCE HOLE
BAS	BUILDING AUTOMATION SYSTEM	MM	MULTIMODE
BBC	BACKBONE BONDING	MPOE	MAIN POINT OF ENTRANCE
BD	CONDUCTOR	MPOP	MAIN POINT OF PRESENCE
BDF	BUILDING DISTRIBUTION FRAME	MTD	MOUNTED
BFC	BELOW FINISHED CEILING	N/A	NOT APPLICABLE
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CAT	CATEGORY	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CATV	COMMUNITY ANTENNA TELEVISION	NIC	NOT IN CONTRACT
CCTV	CLOSED CIRCUIT TELEVISION	nm	NANOMETER
CD	CAMPUS DISTRIBUTOR	NRTL	NATIONALLY RECOGNIZED TESTING LAB
CMP	COMMUNICATIONS PLENUM	OC	ON CENTER
JACKET		OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CMR	COMMUNICATIONS RISER	OSP	OUTSIDE PLANT
JACKET		PBB	PRIMARY BONDING BUSBAR
DAS	DISTRIBUTED ANTENNA SYSTEM	PBX	PRIVATE BRANCH EXCHANGE
dB	DECIBELS	POE	POWER OVER ETHERNET
DEMO	DEMOLITION	PON	PASSIVE OPTICAL NETWORK
(E)	EXISTING	POTS	PLAIN OLD TELEPHONE SERVICE
EC	ELECTRICAL CONTRACTOR	PSTN	PUBLIC SWITCHED TELEPHONE NETWORK
ECIA	ELECTRONIC COMPONENTS INDUSTRY ASSOCIATION	QTY	QUANTITY
EMI	ELECTROMAGNETIC INTERFERENCE	RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
EMS	ENERGY MANAGEMENT SYSTEM	RMC	RIGID METAL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RU	RACK UNIT
ER	EQUIPMENT ROOM	SBB	SECONDARY BONDING BUSBAR
ETR	EXISTING TO REMAIN	SCS	STRUCTURED CABLING SYSTEM
FACP	FIRE ALARM ANNUNCIATOR PANEL	SM	SQUARE FEET
FACP	FIRE ALARM CONTROL PANEL	SP	SINGLEMODE
FD	FLOOR DISTRIBUTOR	SPECS	SPECIFICATIONS
FMC	FLEXIBLE METAL CONDUIT	TBB	TELECOMMUNICATIONS BONDING BACKBONE
FS	FIRE STOP SYSTEM	TBD	TO BE DETERMINED
FLR	FLOOR	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
F/UTP	SCREEN TWISTED PAIR (SHIELDED)	TR	TYPICAL
GC	GENERAL CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
GYP	GYPSPUM BOARD	UL	UNDERWRITER LABORATORIES, INC.
HC	HORIZONTAL CROSS-CONNECT	UPS	UNINTERRUPTIBLE POWER SUPPLY
HCM	HORIZONTAL CABLE MANAGER	UI/UTP	UNSHIELDED TWISTED PAIR VOLT(S)
HH	HAND HOLE	V	VOLT(S)
HZ	HERTZ	VCN	VERTICAL CABLE MANAGER
IMC	INTERMEDIATE METAL CONDUIT	W	WIRE
IP	INTERNET PROTOCOL	WAN	WIDE AREA NETWORK
ISP	INTERNET SERVICE PROVIDER	WAO	WORK AREA OUTLET
ISP	INSIDE PLANT CABLE	WAP	WIRELESS ACCESS POINT
JB	JUNCTION BOX	WP	WEATHER PROOF
J-BOX	JUNCTION BOX	WR	WEATHER RESISTANT
		WT	WATERTIGHT
		XP	EXPLOSION-PROOF

ANNOTATION

①	TECHNOLOGY PLAN CALLOUT
1	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
●	CONNECTION POINT OF NEW WORK TO EXISTING
1 T1	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER
1 T1	SECTION CUT DESIGNATION
▨	DEDICATED EQUIPMENT ACCESS TILE
▣	ACCESS PANEL

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINE-TYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	————	NEW	————
DEMOLISH	----	FUTURE	-----

PATHWAYS

	WIRE MESH CABLE TRAY (W"=WIDTH, "H"=HEIGHT)
	VERTICAL CABLE TRAY
	UNDERGROUND CONDUIT ("H"=QUANTITY, "D"=CONDUIT DIAMETER)
	CONDUIT ("H"=QUANTITY, "D"=CONDUIT DIAMETER)
	CONDUIT SLEEVE ("H"=QUANTITY, "D"=CONDUIT DIAMETER)
	UL FIRESTOP SYSTEM ASSEMBLY
	PULL BOX ("L"=LENGTH, "W"=WIDTH, "H"=HEIGHT)
	SPLICE

RISER DIAGRAMS

	FIBER OPTIC CROSS CONNECT
	COPPER UTP CROSS CONNECT
	110-TYPE PROTECTOR BLOCK
	PATCH PANEL
	SECONDARY BONDING BUSBAR (SBB)
	PRIMARY BONDING BUSBAR (PBB)
	TELECOMMUNICATIONS BACKBONE CABLING (REFER TO RISER DIAGRAM FOR MORE INFORMATION)

TELECOMMUNICATIONS ROOM

	LADDER RACK
	PRIMARY BONDING BUSBAR (PBB) - WALL ELEVATION VIEW
	SECONDARY BONDING BUSBAR (SBB) - WALL ELEVATION VIEW
	PBB/SBB - PLAN VIEW
	TELECOM BACKBOARD
	TWO-POST EQUIPMENT RACK
	FOUR-POST EQUIPMENT RACK
	EQUIPMENT CABINET (REFER TO PLAN NOTES ON ENLARGED PLANS FOR MORE INFORMATION)

CABLE TYPES

A	CATEGORY 6 CABLE
B	CATEGORY 6A CABLE

TELECOMMUNICATIONS OUTLETS

SYMBOL	DESCRIPTION	CABLE(S)		DETAIL
		A	B	
▽ 1D	DATA WALL OUTLET	1	0	A3,D5/TN500
▽ 2D	DATA WALL OUTLET	2	0	A3,D5/TN500
▽ 2D, TV	DATA WALL OUTLET FOR AV DISPLAY. MOUNT AT 60" AFF	2	0	C5/TN500
▽ WAP	DATA WALL OUTLET FOR WIRELESS ACCESS POINT. MOUNT AT 120" AFF	1	0	A1,E1/TN500
▽ W, 1D	TELEPHONE, VoIP WALL OUTLET	1	0	D7/TN500
▽ 2D, ELEV	DATA WALL OUTLET FOR ELEVATOR	2	0	D5/TN500
⊕ 1D	DAT CEILING OUTLET	0	1	A1,E1/TN500
2D, TYPE "X"	MULTI-SERVICE FLOOR BOX WITH DATA AND POWER OUTLETS. REFER TO ELECTRICAL DRAWINGS FOR FLOOR BOX TYPE	2	0	D1/TN501

TELECOMMUNICATIONS END-POINT DEVICES

SYMBOL	DESCRIPTION	CABLE(S)		DETAIL
		A	B	
Ⓢ RT	PAGING SPEAKER, RECESSED CEILING TILE MOUNT	1	0	C1/TN500
Ⓢ P	PAGING SPEAKER, PENDANT CEILING MOUNT	1	0	C1/TN500

TELECOMMUNICATIONS RESPONSIBILITY MATRIX

Description	Furnish		Install		Comments
	Construction Team	Owner	Construction Team	Owner	
General Communications					
Grounding and Bonding	X		X		
Hangers and Supports	X		X		
Conduits and Backboxes	X		X		
Surface Raceways	X		X		
Underground pathways for utility entrance and floor boxes	X		X		
Firestops, Conduit Sleeves, and Sleeve Seals	X		X		
Structured Cabling					
Telecom Room Cabinets, Racks, Frames, and Enclosures	X		X		
Copper Horizontal Cable and Connectivity	X		X		
Data Communications					
Router / Firewall		X		X	
Core Switch / Edge Switch		X		X	
Wireless Access Points		X		X	
Servers / Storage and Backup		X		X	
Laptops / Desktops / Copiers / Printers / Scanners		X		X	
Voice Communications					
VoIP Gateway / Analog handsets		X		X	
VoIP handset wall mount kit		X		X	
VoIP handsets		X		X	
VoIP Network licensing		X		X	
Distributed & Monitoring Communications					
Overhead Analog/IP Paging	X		X		
Electronic Safety and Security					
Conduits and Backboxes for Security systems	X		X		
Refer to Security drawings for Security Scope					

GENERAL NEW WORK NOTES

- READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WORK AND ALL SUBCONTRACTORS.
- ALL WORK SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS (DIVISION 26, DIVISION 27, DIVISION 28, ETC.) AND THE CUSTOMER PRE-ESTABLISHED STRUCTURED CABLING STANDARDS. SHOULD DIFFERENCES EXIST IN THE SPECIFICATIONS RELATING TO TECHNOLOGY AND THE CLIENT'S PRE-ESTABLISHED STANDARDS THE CONTRACTOR SHALL CONTACT THE LOW VOLTAGE ENGINEER FOR CLARIFICATION THROUGH THE RFI PROCESS.
- FULLY COORDINATE ALL FIRE STOP CONDUITS / SLEEVES, AND CONDUIT ROUTING WITH STRUCTURAL ELEMENTS. COORDINATE CONDUIT INSTALLATIONS WITH ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. ROUTING IN CONCRETE SLAB OR UNDER SLAB (WHERE CONDUIT WOULD BE ON GRADE) REQUIRES THE USE OF WET LOCATION RATED CABLES.
- ALL TELECOMMUNICATIONS CONTINUOUS PATHWAYS SHALL BE BONDED TO THE TELECOMMUNICATIONS BONDING BACKBONE; FOR CONDUITS, INSULATION BUSHINGS SHALL BE USED AT THE END OF THE CONDUIT THE FARTHEST AWAY FROM THE SERVING TR; A BONDING BUSHING SHALL BE USED AT THE END CLOSEST TO THE SERVING TR. CONTRACTOR TO REFER TO THE ANSI-STD-J 607 STANDARD FOR ADDITIONAL INFORMATION AS TO THE INSTALLATION OF THE TELECOMMUNICATIONS BONDING BACKBONE.
- ALL FIRE RATED WALL / FLOOR ASSEMBLIES PENETRATED FOR TELECOMMUNICATIONS CABLING PATHWAYS SHALL BE FIRE STOPPED WITH THE APPROVED FIRE STOP SYSTEMS (FIS). ALL FIRESTOP SYSTEMS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER AND AS SPECIFIED IN DIVISION 07 07 84 00 - "FIRES TOPPING". FIRE STOP ASSEMBLY LOCATIONS ARE TO BE COORDINATED WITH CABLE TRAY PATHWAY TO TELECOMMUNICATIONS ROOM.
- BACK BOXES AND CONDUIT LOCATIONS IN PRECAST CONCRETE WALLS SHALL BE COORDINATED WITH ARCHITECT, STRUCTURAL ENGINEER, AND GC PRIOR TO ORDERING THE PRECAST WALLS.
- ROUTING OF CABLES SHALL BE CONCEALED. CABLES SHALL BE ROUTED IN CONDUIT IN EXPOSED AREAS. MINIMIZE AMOUNT OF EXPOSED CONDUIT BY EMBEDDING CONDUIT IN SLAB WHEN POSSIBLE. EMBEDDED CONDUITS AND PENETRATIONS OF STRUCTURE SHALL FOLLOW DETAILS IN STRUCTURAL DRAWINGS. WHEN CONDUITS CAN ONLY BE INSTALLED EXPOSED, NOTIFY ARCHITECT PRIOR TO START OF INSTALLATION OF CONDUITS. CABLES SHALL BE ROUTED IN CONDUIT WHEN ABOVE HARD CEILINGS. CONDUITS FOR ELEVATOR PHONES AND FIRE ALARM CONTROL PANEL SHALL BE CONTINUOUS (HOMERUN) FROM THE TELECOMMUNICATIONS ROOM TO THE APPLICABLE BOX / CABINET. CONTRACTOR SHALL SIZE AND PROVIDE CONDUITS TO MEET TIA-569.
- TELECOMMUNICATIONS ROOMS SHALL BE DEDICATED FOR INFORMATION TECHNOLOGY USE (I.E. NO SHARED SPACE WITH A JANITOR, FIRE ALARM SYSTEM, ETC.) NO SERVICES SHALL PASS THROUGH THE SPACE UNLESS DEDICATED TO THE SPACE (NO PLUMBING, MECHANICAL, ELECTRICAL, FIRE, ETC.)

HATCHING LEGEND

ENLARGED PLAN	
NOT IN SCOPE (NIS)	

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FIRE STATION #5  
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DRAWN BY:	J.CORONADO
CHK'D BY:	M.MAURER

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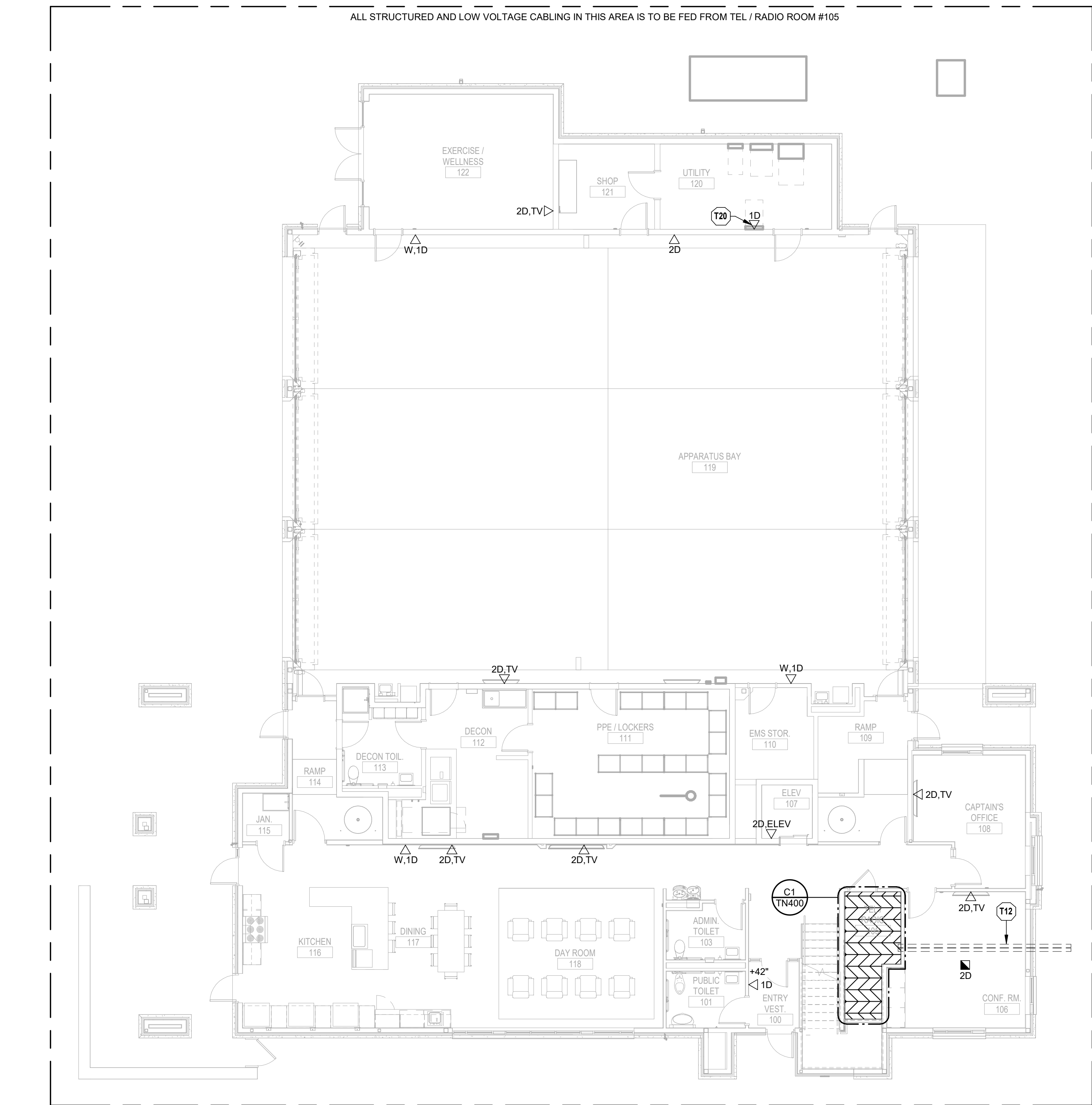
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A



**(A1) TECHNOLOGY LEVEL 1 FLOOR PLAN**  
1/8" = 1'-0"

0 4' 8' 16'

PLAN NORTH

- TECHNOLOGY PLAN NOTES:**
- T12 PROVIDE (2) 4" SERVICE ENTRANCE CONDUITS FROM ENTRANCE FACILITY TO 5'-0" OUTSIDE OF BUILDING. PROVIDE PULL STRING. REFER TO CIVIL SITE PLANS AND DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T20 PROVIDE DATA OUTLET FOR LIGHTING CONTROL PANEL. REFER TO ELECTRICAL SHEETS FOR FURTHER INFORMATION. COORDINATE WITH ELECTRICAL CONTRACTOR ON EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.



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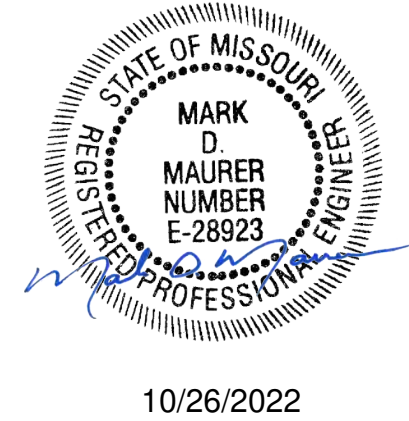
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**TECHNOLOGY  
LEVEL 1 PLAN**

**TN101**

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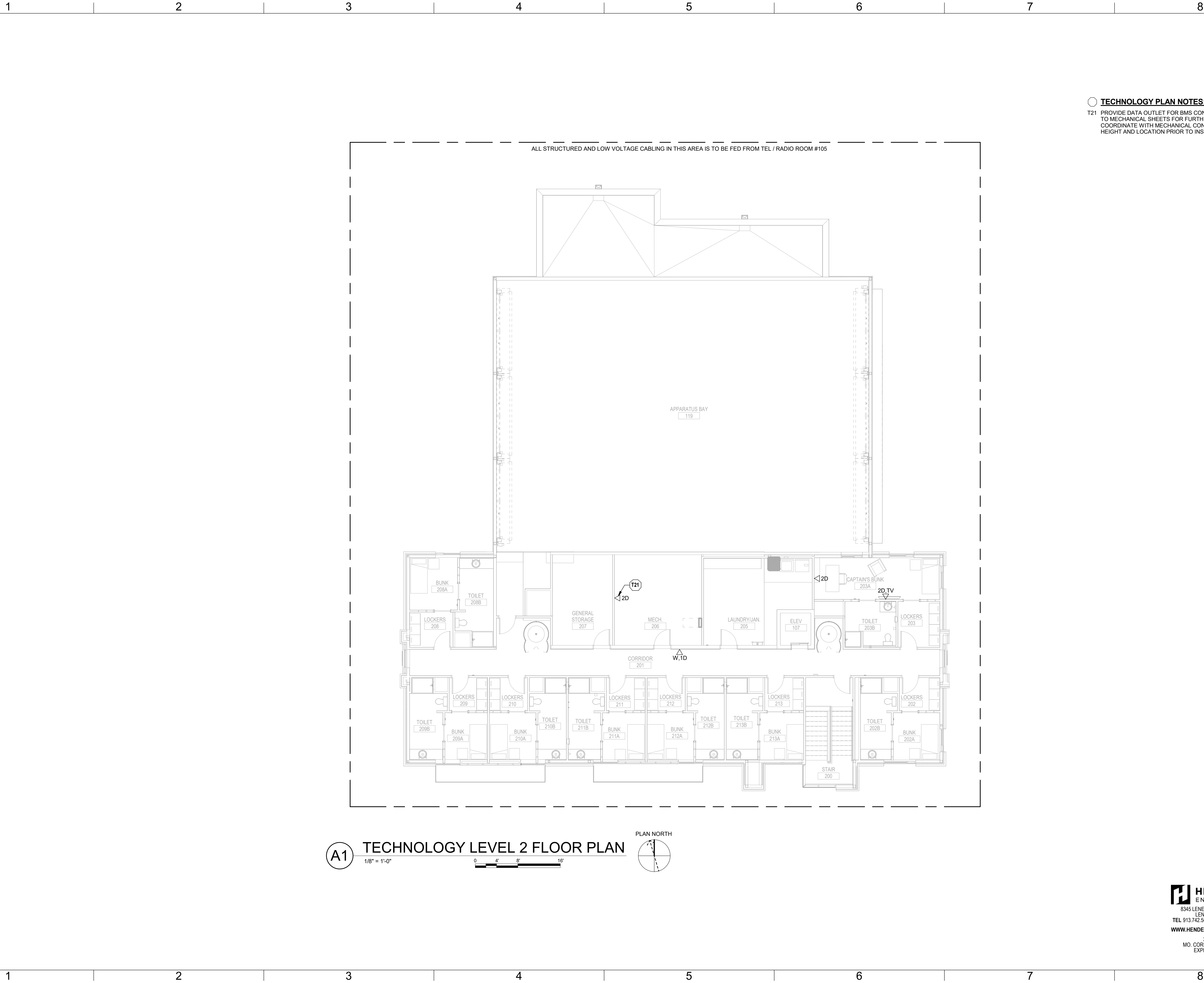
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**TECHNOLOGY PLAN NOTES:**  
T21 PROVIDE DATA OUTLET FOR BMS CONTROL PANEL. REFER TO MECHANICAL SHEETS FOR FURTHER INFORMATION. COORDINATE WITH MECHANICAL CONTRACTOR ON EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.

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STATE OF MISSOURI  
REGISTERED PROFESSIONAL ENGINEER  
MARK D. MAURER  
NUMBER E-28923  
10/26/2022

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DRAWN BY:	J.CORONADO
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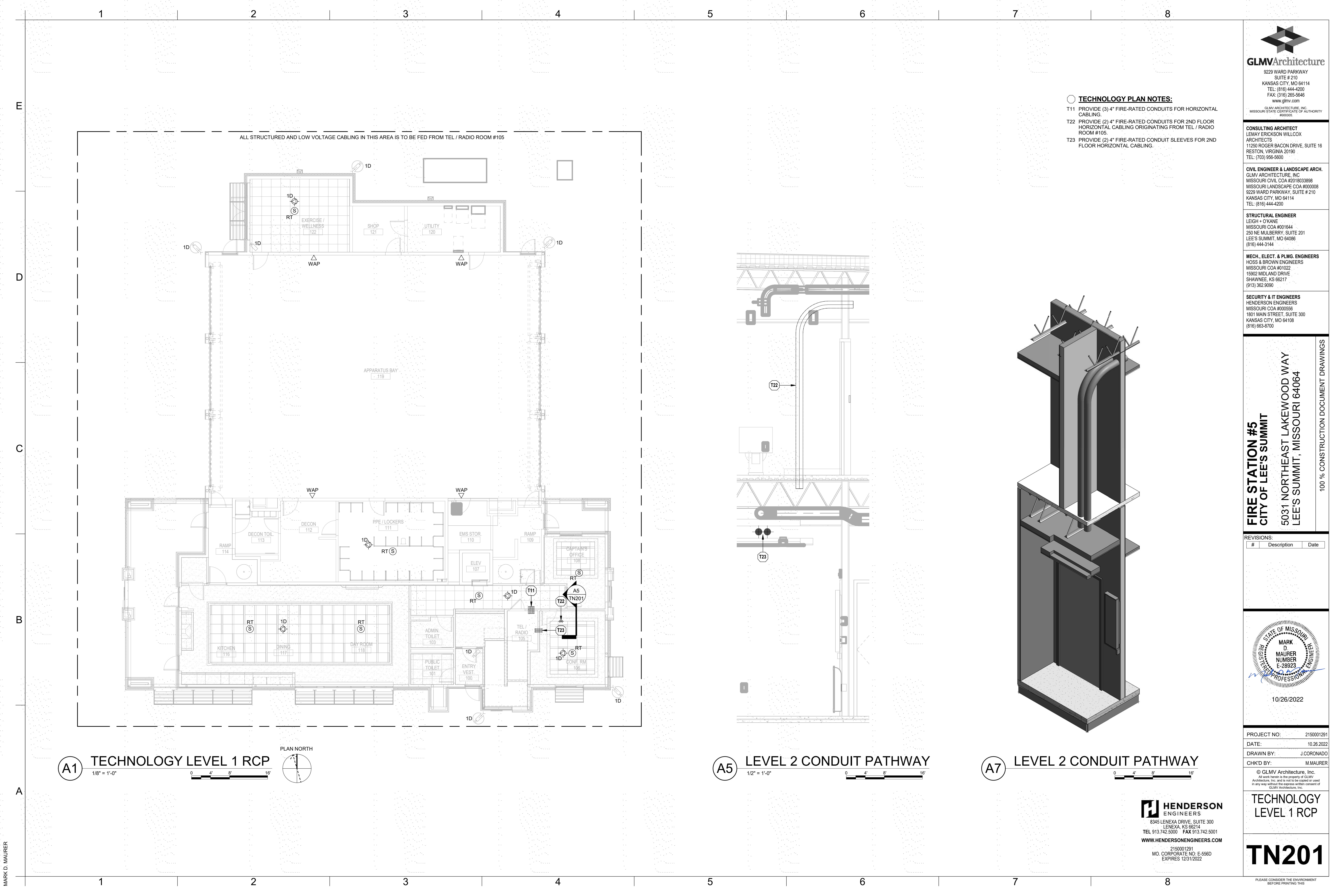
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**TECHNOLOGY**  
**LEVEL 2 PLAN**

**TN102**

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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
5031 NORTHEAST LAKEWOOD WAY  
LEE'S SUMMIT, MISSOURI 64064

100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:		
#	Description	Date



10/26/2022

PROJECT NO:	2150001291
DATE:	10.26.2022
DRAWN BY:	J. CORONADO
CHK'D BY:	M. MAURER



**HENDERSON ENGINEERS**  
8345 LENEXA DRIVE, SUITE 300  
LENEXA, KS 66214  
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WWW.HENDERSONENGINEERS.COM

2150001291  
MO. CORPORATE NO: E-556D  
EXPIRES 12/31/2022

**TECHNOLOGY**  
**LEVEL 1 RCP**

**TN201**

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MARK D. MAURER

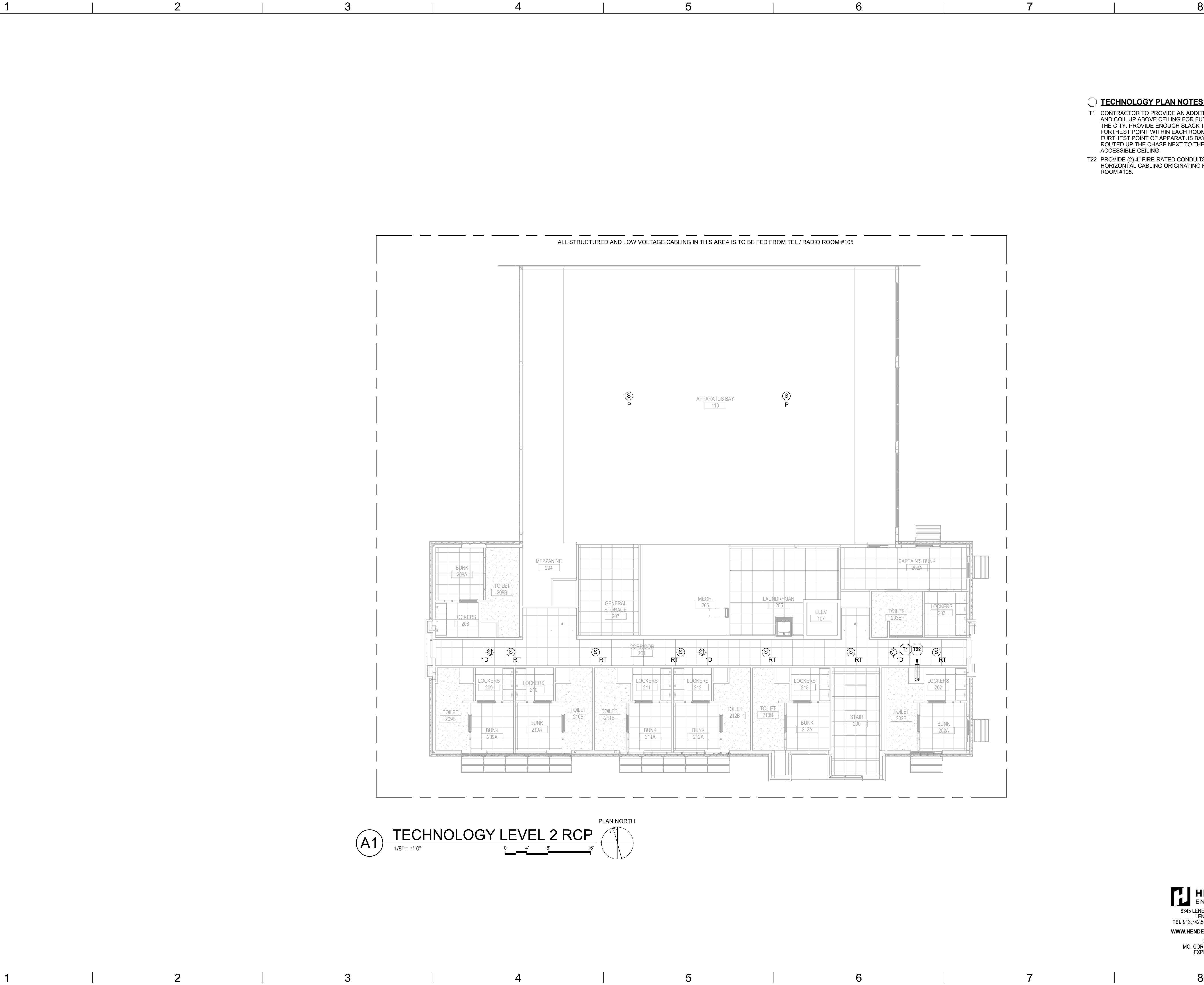
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- TECHNOLOGY PLAN NOTES:**
- T1 CONTRACTOR TO PROVIDE AN ADDITIONAL 30 DATA CABLES AND COIL UP ABOVE CEILING FOR FUTURE TERMINATION BY THE CITY. PROVIDE ENOUGH SLACK TO REACH THE FURTHEST POINT WITHIN EACH ROOM SPECIFICALLY FURTHEST POINT OF APPARATUS BAY. CABLES ARE TO BE ROUTED UP THE CHASE NEXT TO THE STAIRWELL INTO ACCESSIBLE CEILING.
- T22 PROVIDE (2) 4" FIRE-RATED CONDUITS FOR 2ND FLOOR HORIZONTAL CABLING ORIGINATING FROM TEL / RADIO ROOM #105.



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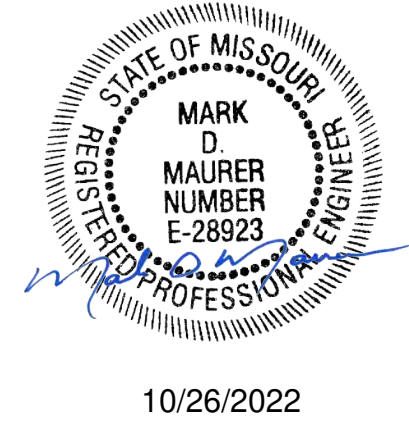
**SECURITY & IT ENGINEERS**  
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**5031 NORTHEAST LAKEWOOD WAY**  
**LEE'S SUMMIT, MISSOURI 64064**

100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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PROJECT NO: 2150001291  
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DRAWN BY: J.CORONADO  
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**TECHNOLOGY**  
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MARK D. MAURER

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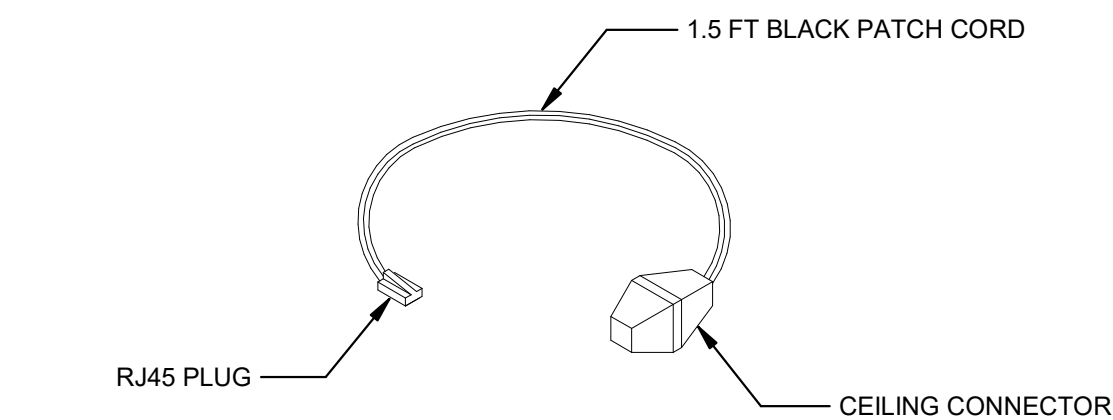
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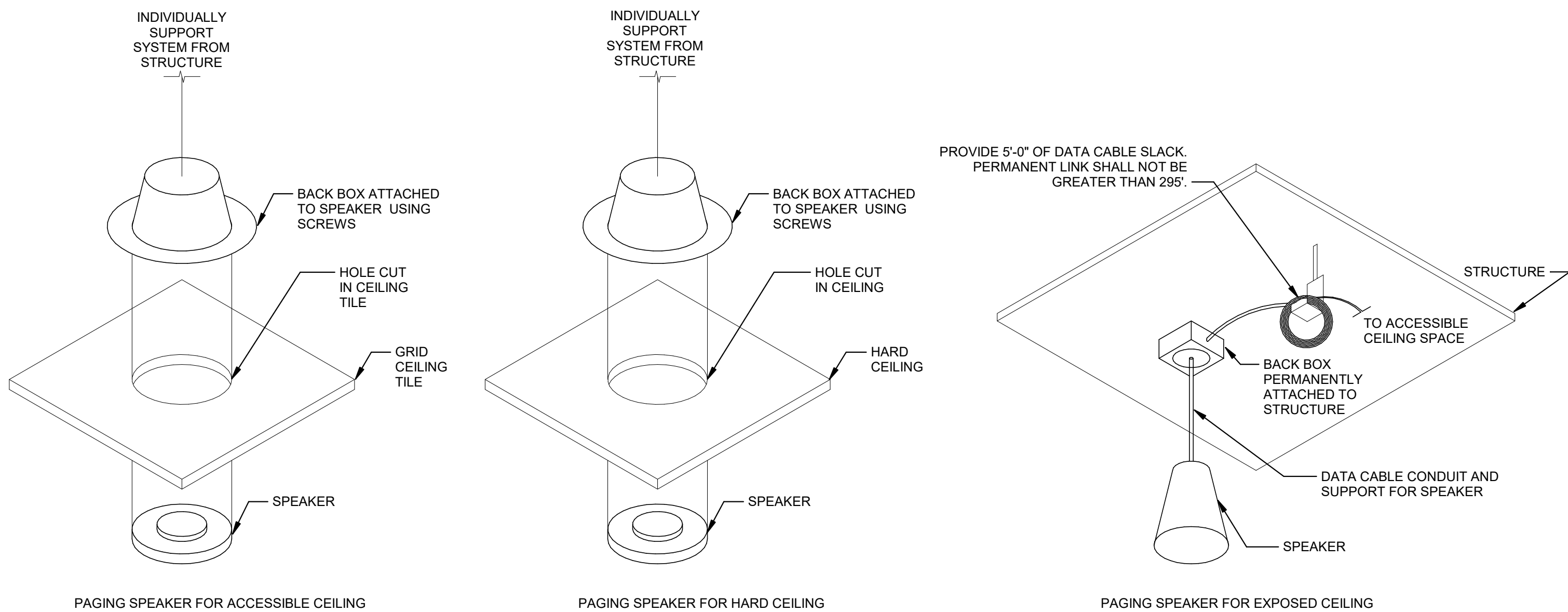
## E1 ACCESS POINT CONNECTOR ASSEMBLY

NOT TO SCALE



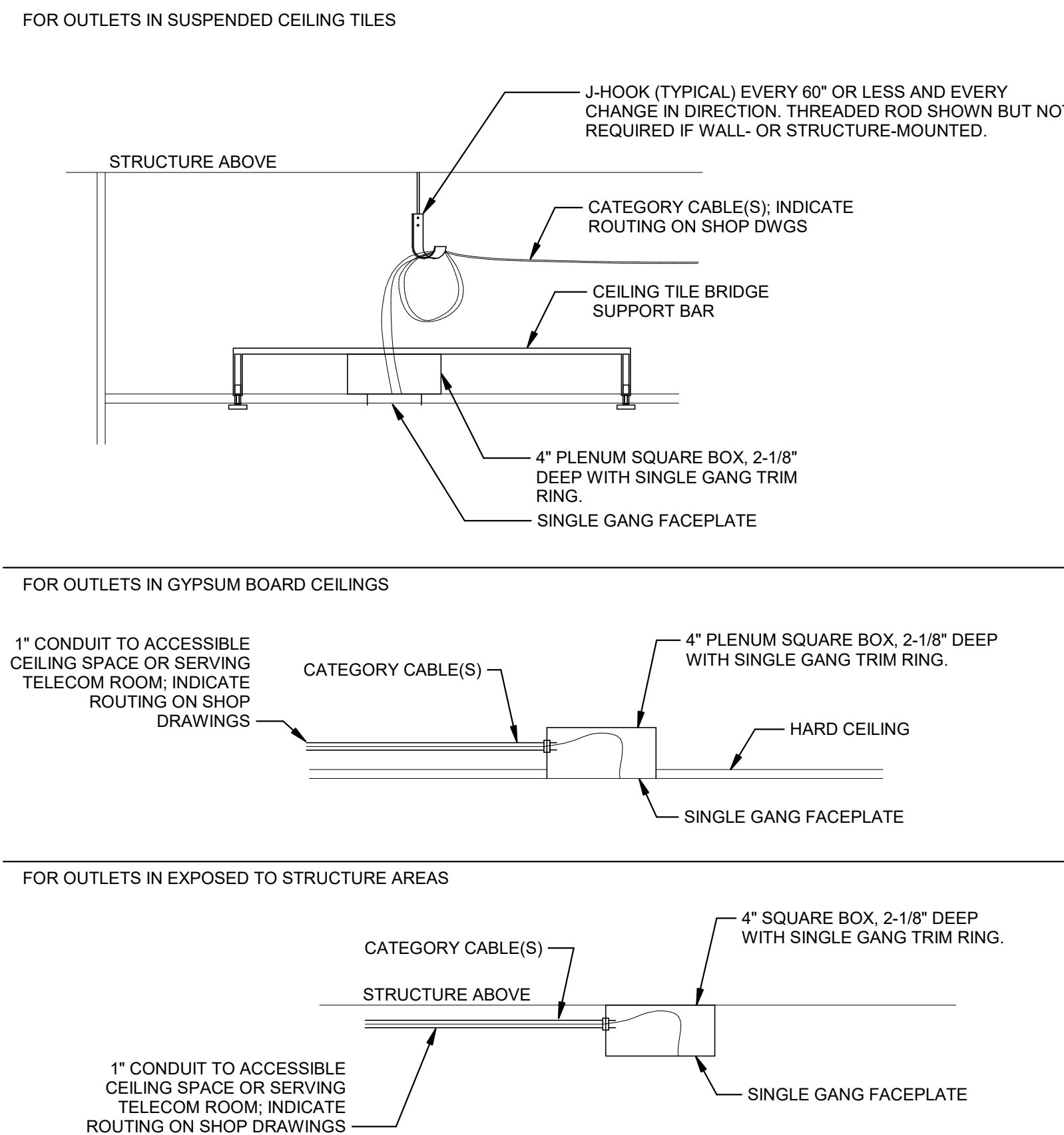
## C1 SPEAKER INSTALLATION

NOT TO SCALE



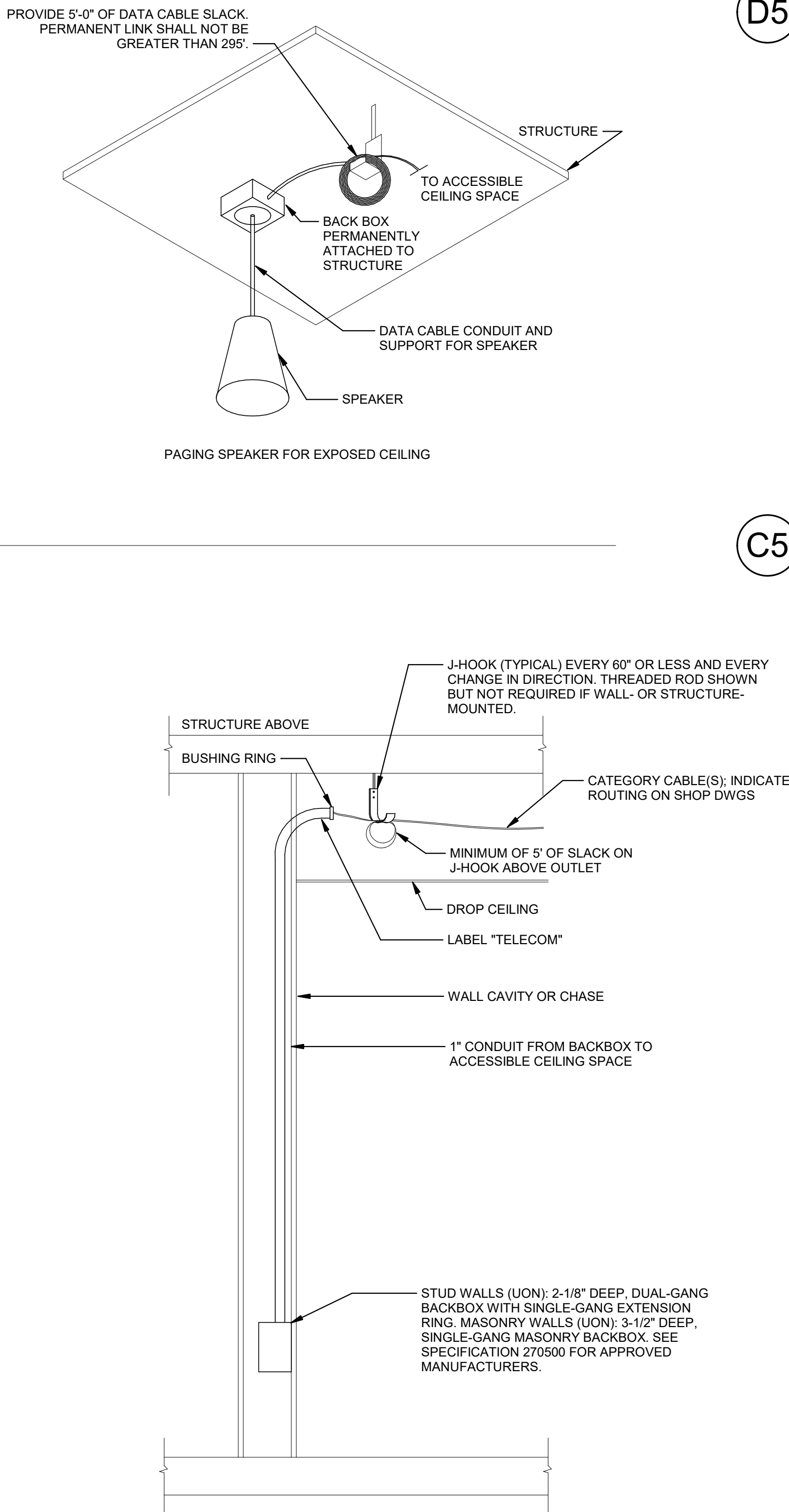
## A1 CEILING COMM OUTLET 2D

NOT TO SCALE



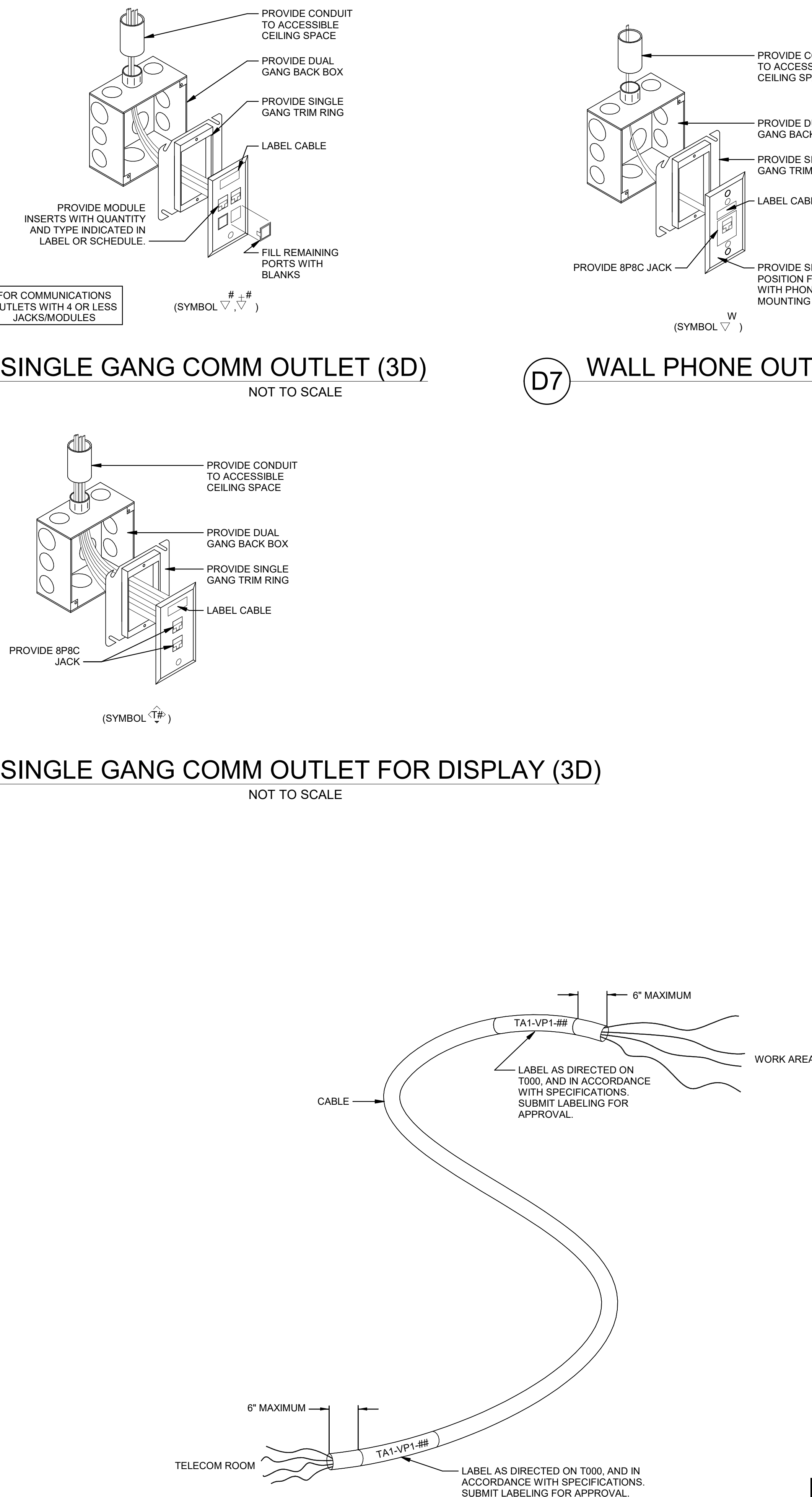
## A3 COMMUNICATIONS OUTLET MOUNTING

NOT TO SCALE



## A6 LABELING OF HORIZONTAL CABLE

NOT TO SCALE



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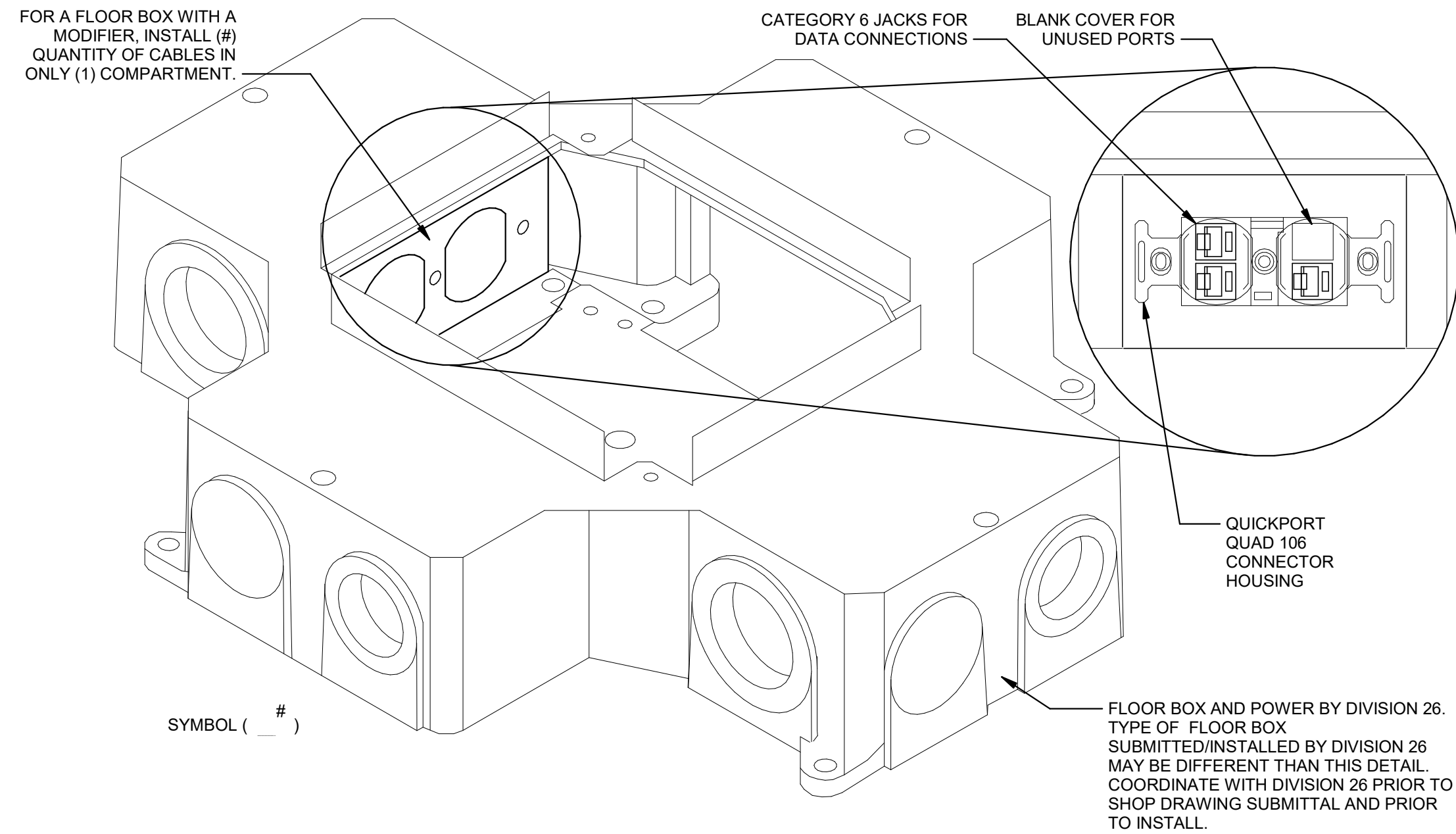
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**TECHNOLOGY  
DETAILS**

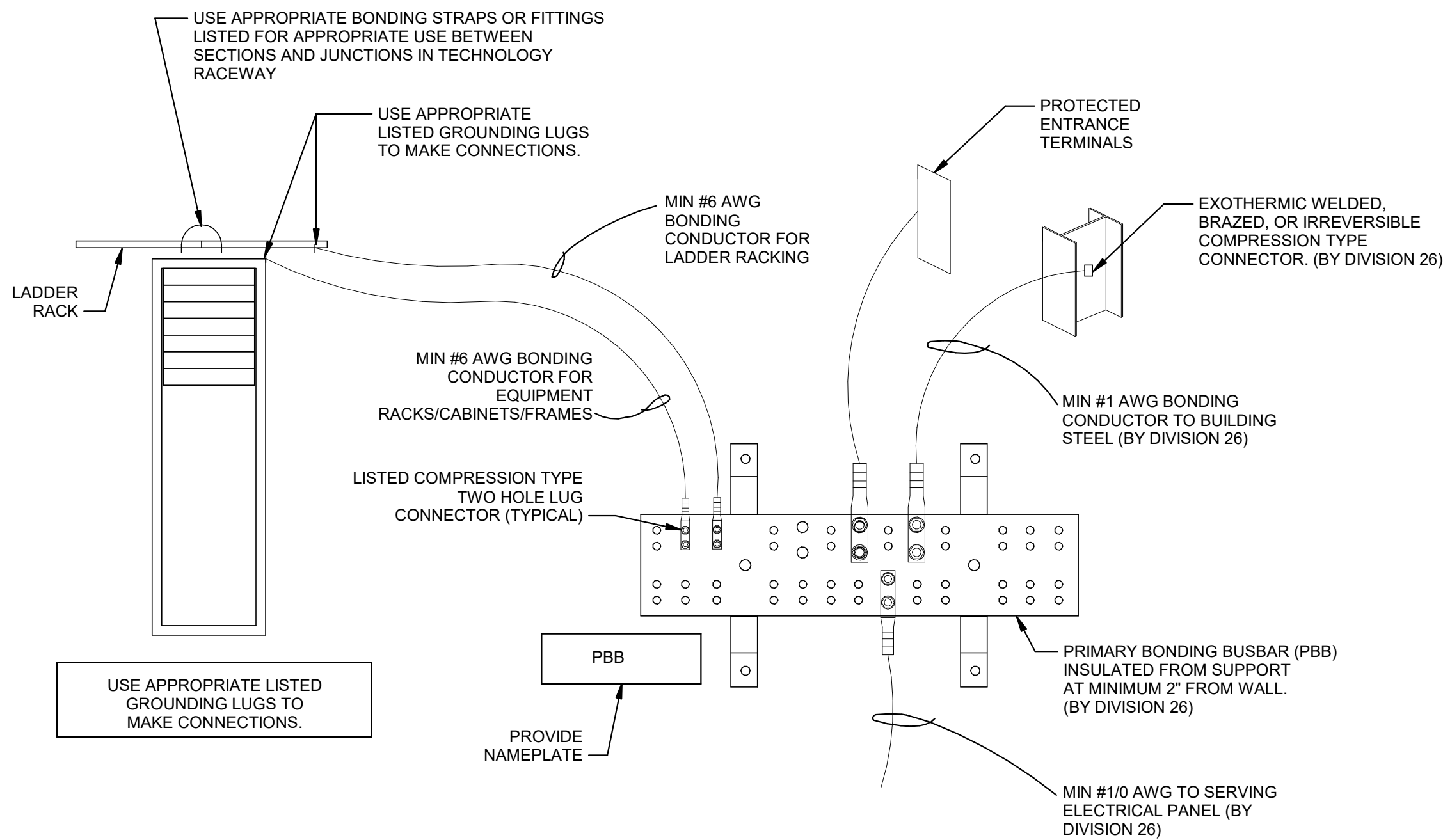
**TN500**

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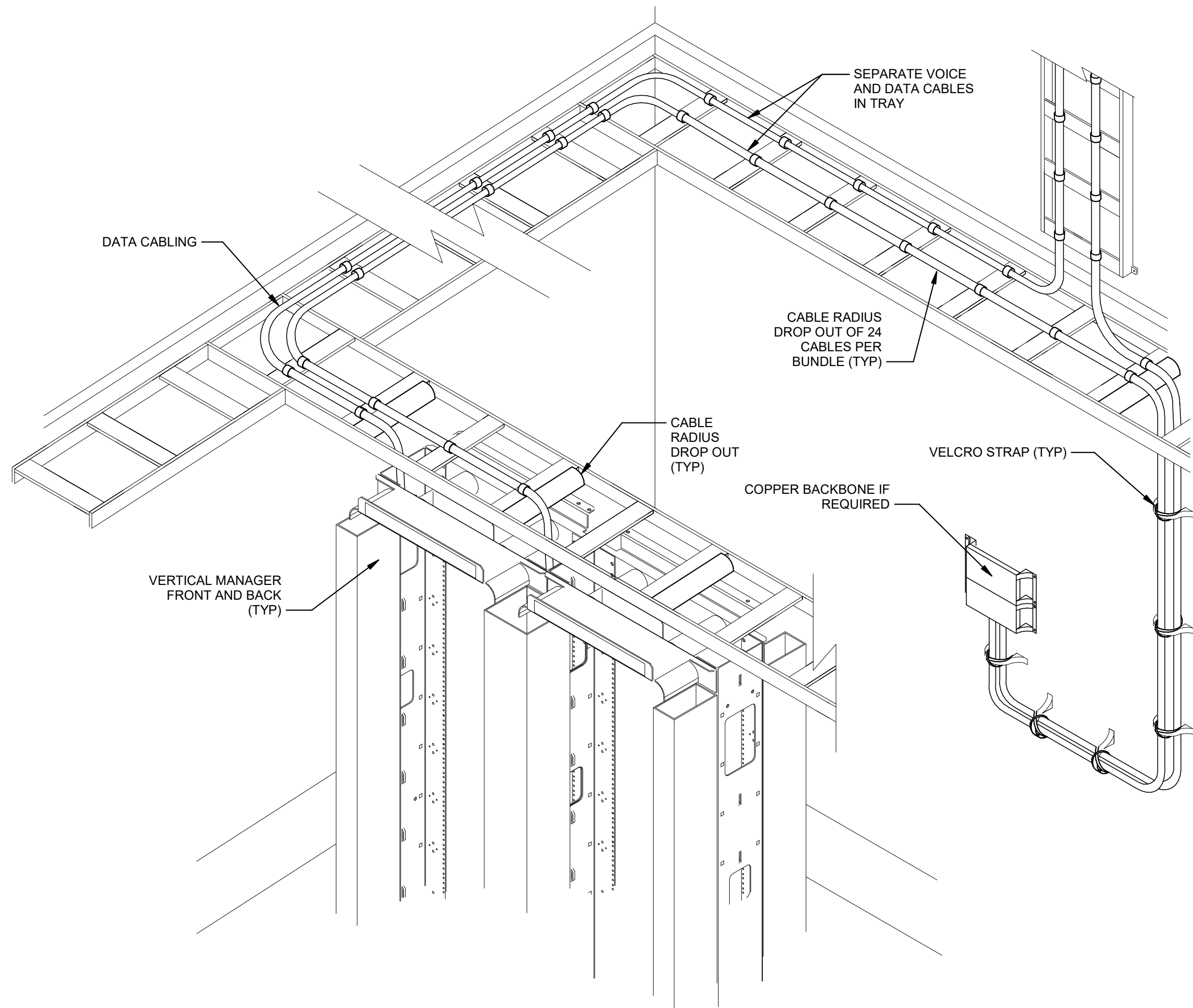




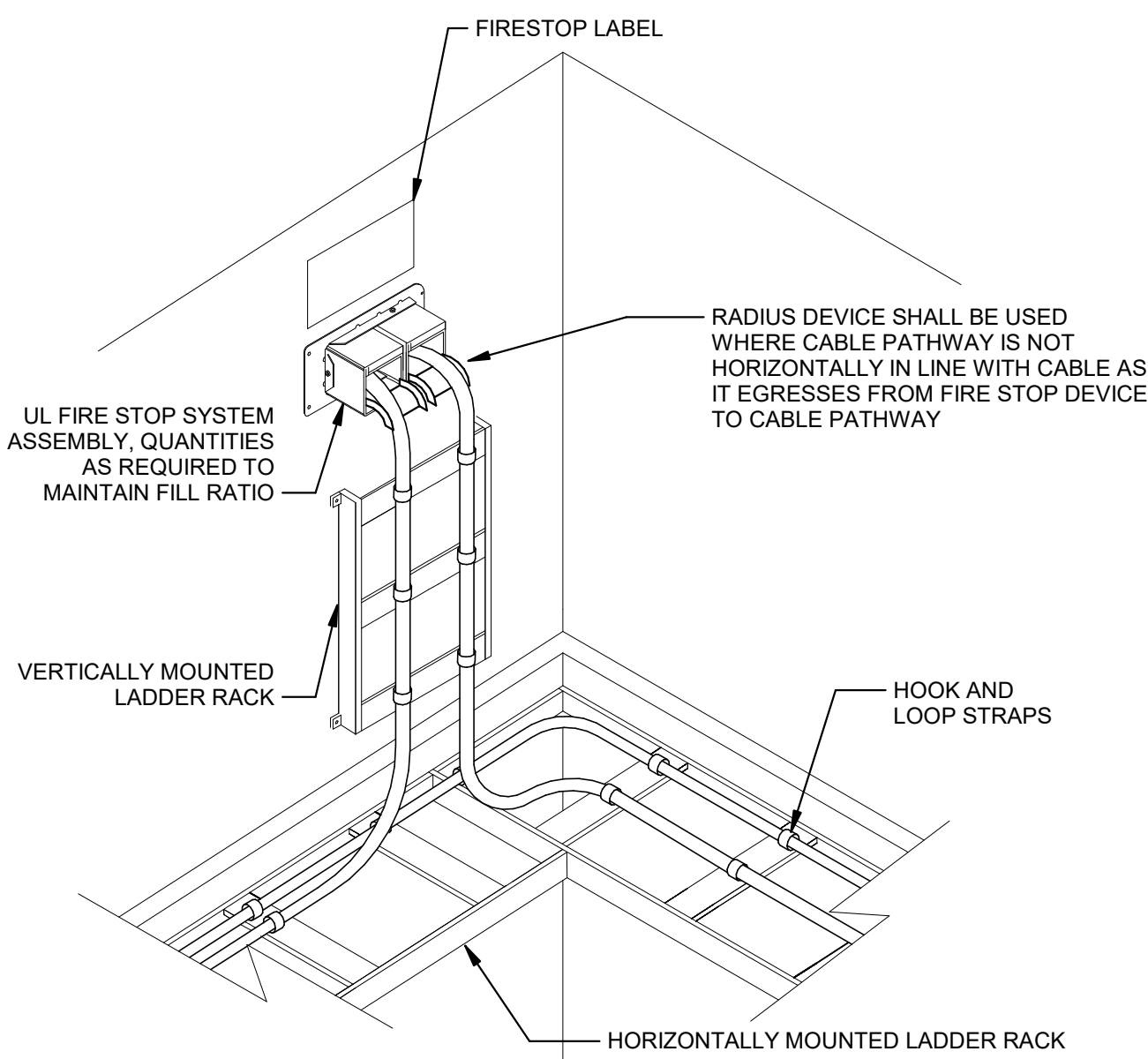
D1 FLOOR BOX  
NOT TO SCALE



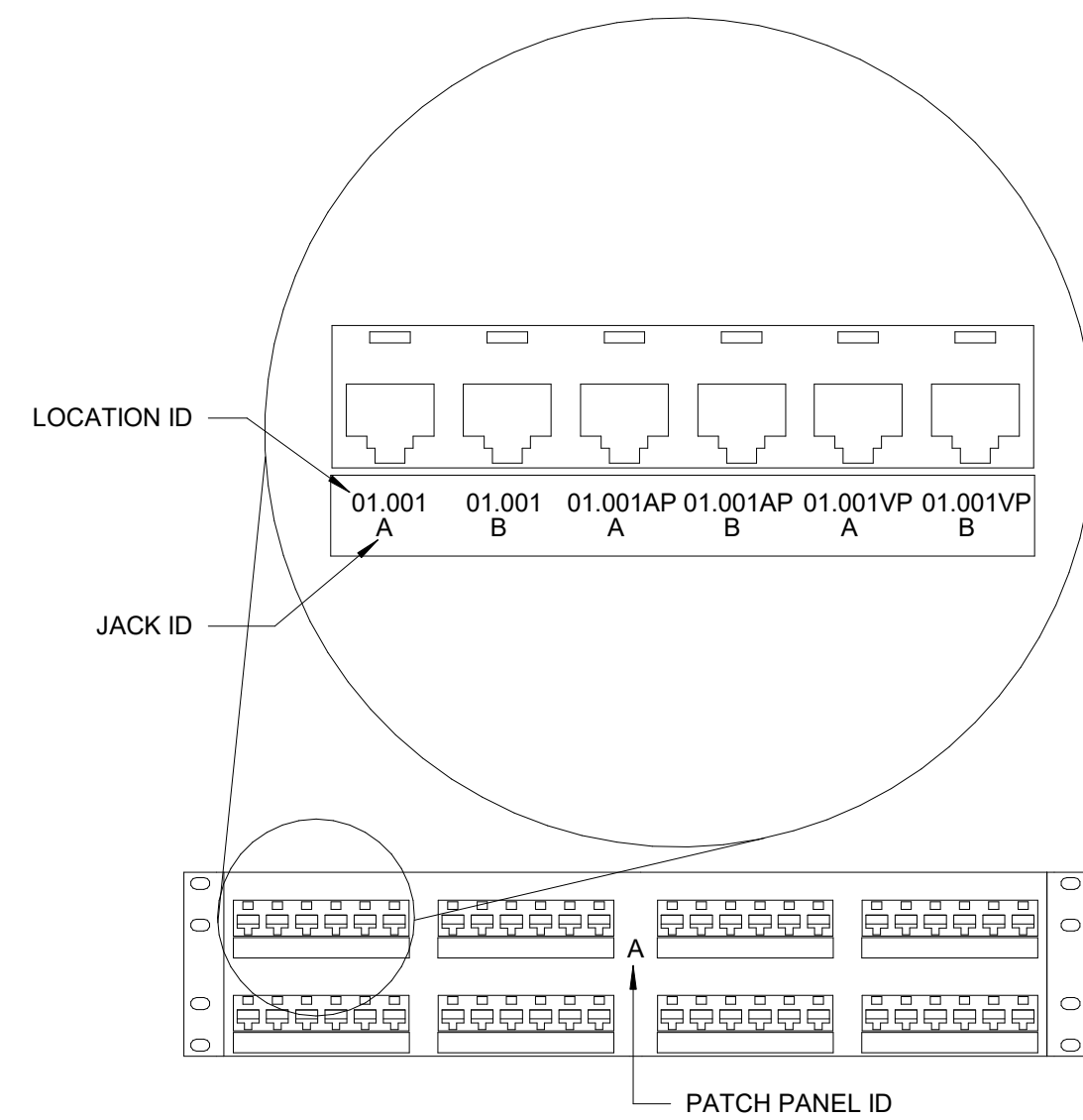
D5 PBB CONNECTIONS DIAGRAM  
NOT TO SCALE



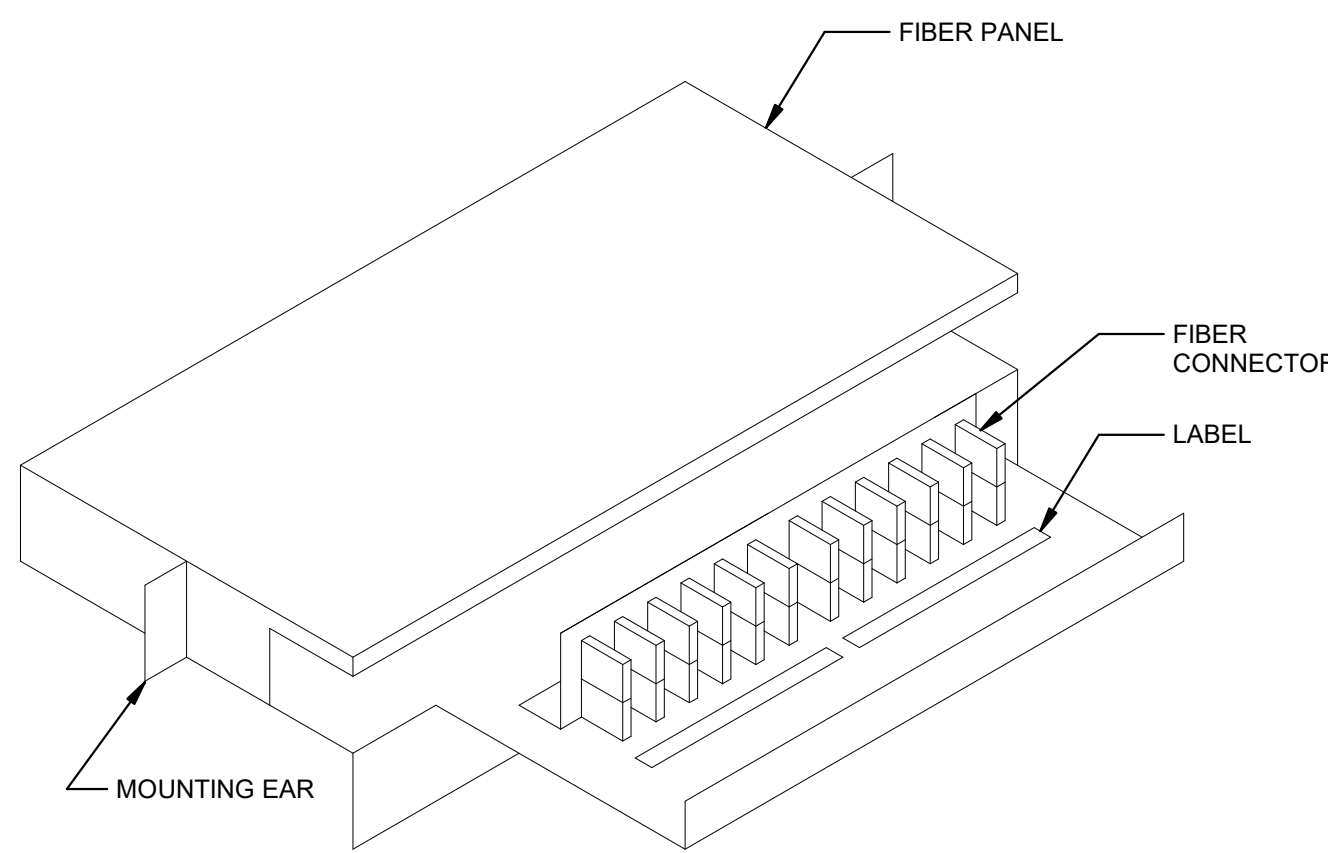
A1 TELECOM ROOM TRAY ALIGNMENT, BEND RADIUS TREATMENT  
NOT TO SCALE



B4 FIRE STOP SYSTEM  
NOT TO SCALE



B7 TYPICAL PATCH PANEL LABELING DETAIL  
NOT TO SCALE



A4 FIBER PANEL  
NOT TO SCALE



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










































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A

SECURITY SYMBOLS													
THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.													
STANDARD MOUNTING HEIGHTS			SECURITY SYMBOLS			CAMERA TYPE SCHEDULE							
INTERCOM (OPERABLE PART)		48"			AREA OF REFUGE CALL BOX	TYPE	FORM FACTOR	DESCRIPTION	LOCATIONS				
CARD READER (CENTER OR TOP WHERE OPERABLE PARTS EXIST)		48"			PROXIMITY CARD READER								
EMERGENCY LOCK RELEASE		48"			CLIENT WORKSTATION WHERE X = NUMBER OF MONITORS	01		VANDAL DOME CAMERA	INDOOR/ OUTDOOR				
EMERGENCY PHONE (OPERABLE PARTS)		48"			(AC) ACCESS CONTROL (SM) SECURITY MANAGEMENT (TS) TOUCHSCREEN CONTROL (VS) VIDEO SURVEILLANCE	02		360 DEGREE MULTISENSOR CAMERA	OUTDOOR				
DEFAULT MOUNTING HEIGHTS SHOWN ABOVE WHERE NO CALL-OUT IS PROVIDED. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG). ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.					DOOR ANNUNCIATOR	CAMERA TYPE SCHEDULE							
ABBREVIATIONS					DOOR BELL (PB) PUSH BUTTON (CH) CHIME	TYPE	FORM FACTOR	TECHNOLOGY	LOCATIONS				
A AMPS KVM KEYBOARD VIDEO MOUSE SWITCH					DOOR POSITION SWITCH ONLY SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE	01		RFID	INDOOR/ OUTDOOR				
ACP ACCESS CONTROL PANEL LAN LOCAL AREA NETWORK					DOOR POSITION SWITCH AND LATCHBOLT MONITOR SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE	02		RFID	INDOOR/ OUTDOOR				
ADA AMERICANS WITH DISABILITIES ACT LED LIGHT-EMITTING DIODE					ELECTRIFIED LOCKING DEVICE, REQUEST TO EXIT, DOOR POSITION SWITCH, AND LATCH BOLT MONITOR SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE	INTERCOM TYPE SCHEDULE							
AFC ABOVE FINISHED CEILING LF LINEAR FEET					ELECTRIFIED LOOKING DEVICE SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE	TYPE	FORM FACTOR	DESCRIPTION	LOCATIONS				
AFF ABOVE FINISHED FLOOR MBS MAINTENANCE BYPASS SWITCH					EMERGENCY PHONE								
AFG ABOVE FINISHED GRADE MDF MAIN DISTRIBUTION FRAME					GLASS BREAK DETECTOR								
AHJ AUTHORITY HAVING JURISDICTION MFR MANUFACTURER					INTERCOM (CR) WITH CARD READER (DS) DOOR STATION (RS) RECEIVING (MASTER) STATION (VS) VIDEO STATION								
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE MH MAINTENANCE HOLE					INMATE PHONE								
AV AUDIO-VIDEO MM MULTIMODE					KEYPAD (ID) INTRUSION DETECTION SYSTEM (AC) ACCESS CONTROL								
AWG AMERICAN WIRE GAUGE MPOE MAIN POINT OF ENTRANCE					LIGHTING CONTROL RELAYS								
BAS BUILDING AUTOMATION SYSTEM MPOP MAIN POINT OF PRESENCE MOUNTED					MOTION DETECTOR								
BD BUILDING DISTRIBUTOR N/A NOT APPLICABLE					PANIC ALARM THREE-COLOR INDICATOR LIGHT								
BDF BUILDING DISTRIBUTION FRAME NEC NATIONAL ELECTRICAL CODE					PANIC/DURESS BUTTON								
BFC BELOW FINISHED CEILING NIC NOT IN CONTRACT					REQUEST-TO-EXIT PUSH PAD								
BR BIOMETRIC READER nm NANOMETER					REMOTE UNLOCK/OPEN BUTTON								
C CONDUIT NRTL NATIONALLY RECOGNIZED TESTING LAB					MICROPHONE STATUS LIGHT, WALL MOUNT								
CAT CATEGORY NVR NETWORK VIDEO RECORDER					MICROPHONE								
CC CENTRAL CONTROL OSP OUTSIDE PLANT					MICROPHONE MUTE ILLUMINATED SWITCH								
CCTV CLOSED CIRCUIT TELEVISION OC ON CENTER					SPEAKER (DOOR BELL)								
CD CAMPUS DISTRIBUTOR OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION					PAGING SPEAKER								
CMP COMMUNICATIONS PLENUM JACKET POF POWER OVER ETHERNET					VAULT MONITOR								
CMR COMMUNICATIONS RISER PON PASSIVE OPTICAL NETWORK					WATER CONTROL VALVE VALVE BY DIVISION 22, CONTROL BY DIVISION 28								
(D) REMOTE DEVICE QTY QUANTITY					WATCH TOUR								
DAS DISTRIBUTED ANTENNA SYSTEM (R) RELOCATED EXISTING DEVICE (RE) REMOVE EXISTING DEVICE AND INSTALL AT ANOTHER LOCATION, SEE (R)			SECURITY CAMERAS										
dB DECIBELS RMC RIGID METAL CONDUIT					FIXED CAMERA			TWO IMAGER CAMERA					
DCS DOOR CONTROL SYSTEM RMS REMOTE MONITORING STATION					PTZ CAMERA			FOUR IMAGER CAMERA					
DEMO DEMOLITION RU RACK UNIT					360 CAMERA	MOUNTING TYPE SYMBOLS (APPLIES TO ANY SECURITY DEVICE SYMBOL)							
DSP DIGITAL SIGNAL PROCESSOR SCS STRUCTURED CABLING SYSTEM					180 CAMERA	1							
DVR DIGITAL VIDEO RECORDER SF SQUARE FEET			SECURITY CAMERAS (TYPICAL)										
(E) EXISTING DEVICE SM SINGLEMODE					CEILING MOUNT	ANNO							
EC ELECTRICAL CONTRACTOR SP SCRAMBLE PAD					WALL MOUNT	1							
ECIA ELECTRONIC COMPONENTS INDUSTRY ASSOCIATION TBD TO BE DETERMINED					POLE / BOLLARD MOUNT	TY							
EMI ELECTROMAGNETIC INTERFERENCE TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION					CORNER MOUNT	1							
EMS ENERGY MANAGEMENT TGB TELECOMMUNICATIONS GROUND BUS BAR					PENDANT MOUNT	TY							
EMT ELECTRICAL METALLIC TUBING TMGB TELECOMMUNICATIONS MAIN GROUND BUS BAR					WALL MOUNT PENDANT ARM	1							
ER EQUIPMENT ROOM TR TELECOMMUNICATIONS ROOM			LABELING SCHEME										
(ETR) EXISTING TO REMAIN TYP TYPICAL					A: DEVICE SYMBOL	SECURITY DEVICES (TYPICAL)							
(F) DOOR FRAME MOUNTED DEVICE UNO UNLESS NOTED OTHERWISE					XX: MODIFIER FOR SPECIAL OPERATION IF APPLICABLE	SEE MATCHING SCHEDULES ON THIS SHEET (IF APPLICABLE)							
FAAP FIRE ALARM ANNUNCIATOR UL UNDERWRITER LABORATORIES, INC.					YY: DEVICE TYPE	SECURITY CAMERAS (TYPICAL)							
FACP FIRE ALARM CONTROL PANEL UPS UNINTERRUPTIBLE POWER SUPPLY			CALL OUTS										
FD FLOOR DISTRIBUTOR UPSDP UNINTERRUPTIBLE POWER SUPPLY DISTRIBUTION PANEL					C-XX: CAMERA NUMBER	ENLARGED PLAN CALLOUT							
FMC FLEXIBLE METAL CONDUIT VCM VERTICAL CABLE MANAGER					AA: CAMERA TYPE (SEE CAMERA SCHEDULE ON THIS PAGE)	NOT IN SCOPE							
FOR FIBER OPTIC RACK VMS VIDEO MANAGEMENT SYSTEM					## AFF: FOR WALL MOUNTED CAMERAS, HEIGHT ABOVE FINISHED FLOOR	DEMOLISH							
FS FIRE STOP SYSTEM WAO WORK AREA OUTLET													
FLR FLOOR WP WEATHER PROOF													
GC GENERAL CONTRACTOR WT WATERTIGHT													
(GT) GUARD TOUR XP EXPLOSION-PROOF													
GYP GYPSUM BOARD													
HH HAND HOLE													
HZ HERTZ													
IMC INTERMEDIATE METAL CONDUIT													
ICS INTERCOM CONTROL SYSTEM													
IP INTERNET PROTOCOL													
ISP INSIDE PLANT CABLE													
J-BOX JUNCTION BOX													
(K) ELECTRICALLY OPERATED BY KEY													
KP KEY PAD													
( ) - INDICATES MODIFIER FOR SPECIAL OPERATION IN LABELING SCHEME													
ANNO													
1													
CONNECTION POINT OF NEW WORK TO EXISTING													
1													
TY													
1													
TY													
SECTION CUT DESIGNATION													
1													
TY													
DEDICATED EQUIPMENT ACCESS TILE													
1													
TY													
ACCESS PANEL													
1													
TY													
LINETYPE LEGEND													
THROUGHOUT THE DRAWINGS DIFFERENT LINE-TYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.													
EXISTING													
DEMOLISH													
NEW													
FUTURE													



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**FIRE STATION #5**  
**CITY OF LEE'S SUMMIT**  
**5031 NORTHEAST LAKEWOOD WAY**  
**LEE'S SUMMIT, MISSOURI 64064**

100 % CONSTRUCTION DOCUMENT DRAWINGS

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#	Description	Date
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10/26/2022

PROJECT NO: 2150001291  
DATE: 10.26.2022  
DRAWN BY: R.GAMMON  
CHK'D BY: M.MAURER

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**SECURITY GENERAL NOTES**

**TY000**



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FILE PATH: BIM 360://182252P21001\_LeesSummitFireStation\_#4 and #5/2150001291.LSWO FIRE STATION #5 v19.rvt

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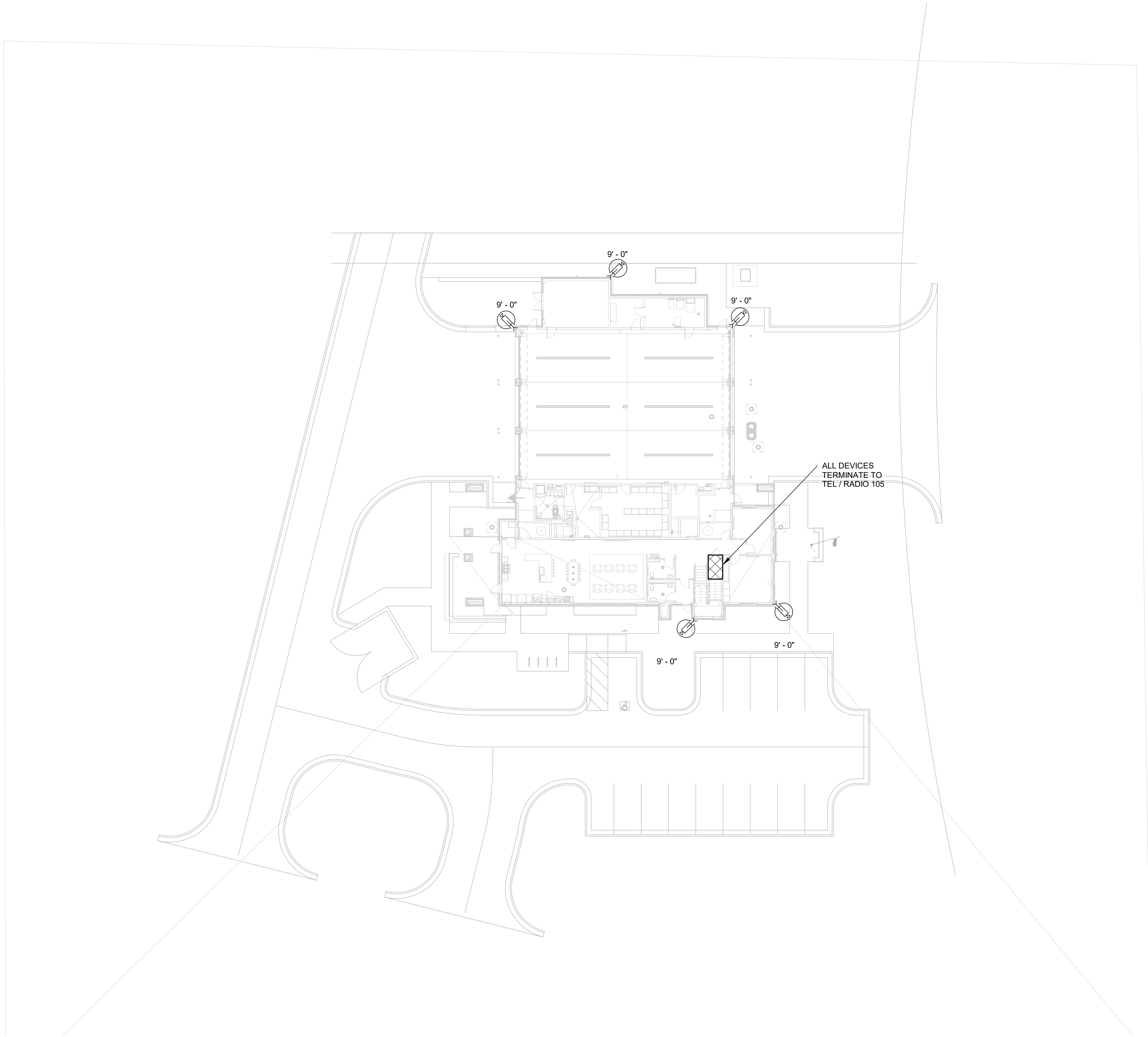
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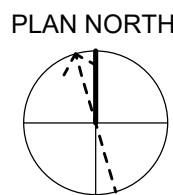


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## SECURITY SITE PLAN

1" = 20'-0"

0 4' 8' 16'



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**SECURITY SITE  
PLAN**

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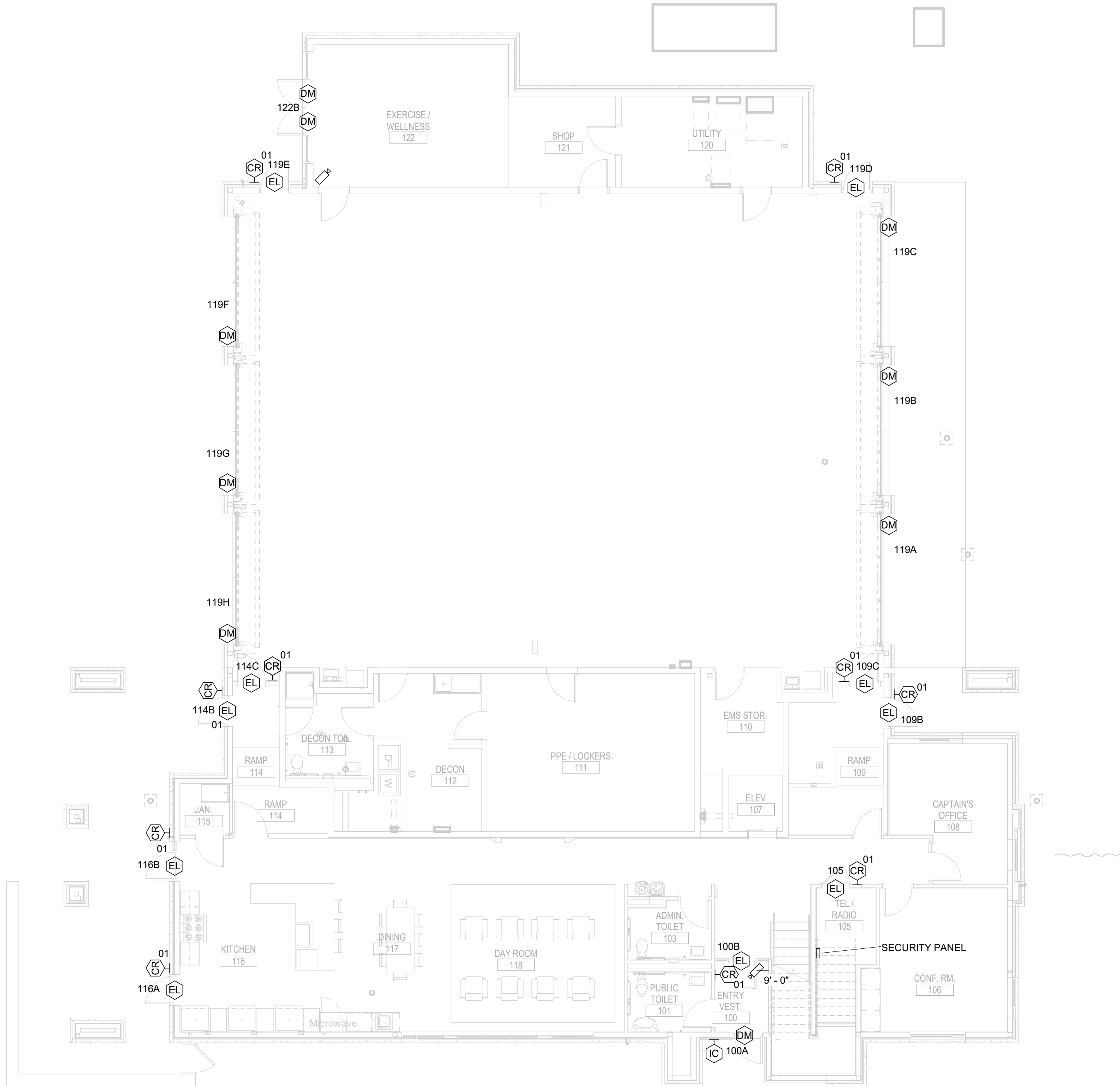
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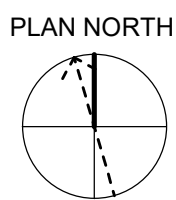
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**A1 SECURITY LEVEL 1 FLOOR PLAN**  
1/8" = 1'-0"

0 4' 8' 16'



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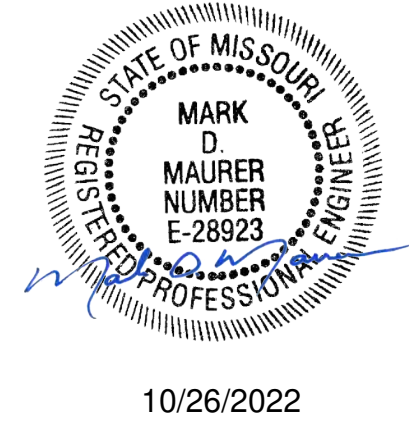
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**SECURITY LEVEL**  
**1 PLAN**

**TY101**

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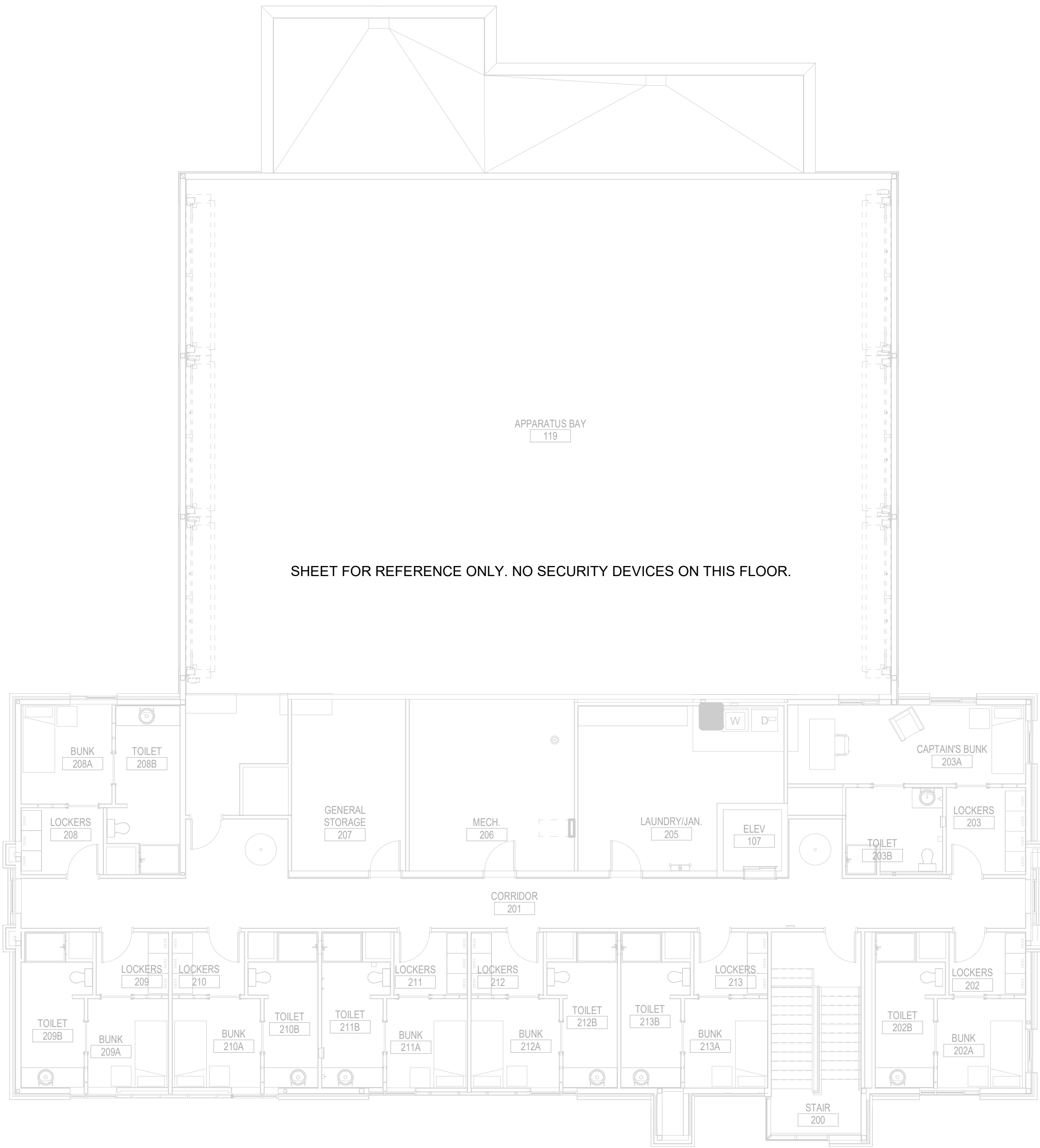
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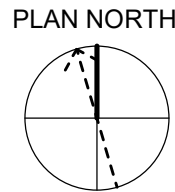


A1

SECURITY LEVEL 2 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'



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**SECURITY LEVEL**  
**2 PLAN**

**TY102**

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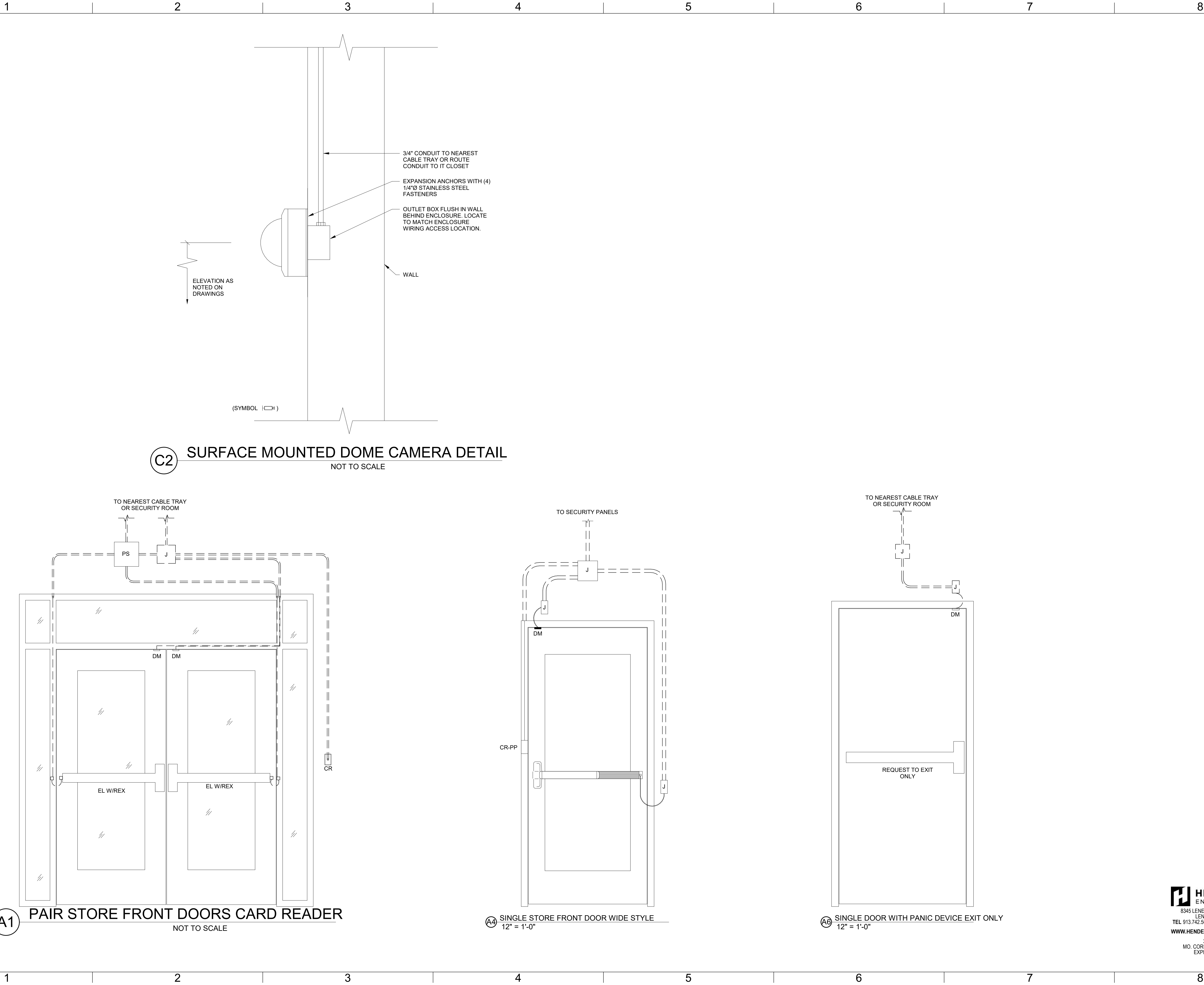
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STATE OF MISSOURI  
REGISTERED PROFESSIONAL ENGINEER  
MARK D. MAURER  
NUMBER E-28923  
10/26/2022

PROJECT NO:	2150001291
DATE:	10.26.2022
DRAWN BY:	R.GAMMON
CHK'D BY:	M.MAURER

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