

CITY OF LEE'S SUMMIT FIRE STATION #4

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

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	CARPET	CPT	FIN GR	FINISH GRADE	LWC	LIGHTWEIGHT CONCRETE	REQL	REQUIRED
AB	ANCHOR BOLT	CIRCUMFERENCE	CR	FIN WD	FINISH WOOD			RESIL	RESILIENT
ABBRV	ABBREVIATION	COURTYARD	CRT YD	FIXT	FIXTURE			REV	REVISION
ACC	ACCESSIBLE	CAST STONE	CS	FLG	FLOORING			RHR	RIGHT HAND REVERSE
ACoust INSUL	ACOUSTICAL INSULATION	CASING	CSG	FLR FIN	FLOOR FINISH			RLG	RAILING
ACoust PNL	ACOUSTICAL PANEL	CONSTRUCTION	CSI	FLR PL	FLOOR PLATE			RM	ROOM
ACS DR	ACCESS DOOR	SPECIFICATIONS INSTITUTE		FN	FENCE			RO	ROUGH OPENING
ACS FLR	ACCESS FLOOR	COUNTER SUNK	CSK	FOUNT	FOUNTAIN			RSD	ROLLING STEEL DOOR
ACS PNL	ACCESS PANEL	CASEMENT	CSMT	FR	FIRE RATING			RT	RIGHT
ACT	ACOUSTICAL CEILING TILE	CASE STEEL	CSLT	FRMG	FRAMING			RTF	RUBBER TILE FLOOR
ADA	AMERICANS WITH DISABILITIES ACT	CASEWORK	CSWK	FRP	FIBERGLASS REINFORCED PLASTIC			RTG	RATING
AFF	ABOVE FINISHED FLOOR	CUT STONE	CT CTN	FRST GL	FROSTED GLASS			RTU	ROOF TOP UNIT
AGGR	AGGREGATE	CERAMIC TILE BASE	CTB	FRTW	FIRE RETARDANT TREATED WOOD			RV	ROOF VENT
AHU	AUTHORITY HAVING JURISDICTION	CERAMIC TILE FLOOR	CTF					RVL	REVEAL
AHU	AIR HANDLING UNIT	COATING	CTG						
AIA	AMERICAN INSTITUTE OF ARCHITECTS	CENTER	CTR						
ALM	ALARM	CONTROL	CTRL						
ALT	ALTERNATE	CUBIC FEET	CU FT						
ALT NO	ALTERNATE NUMBER	CUBIC INCH	CU IN						
ALUM	ALUMINUM	CUBIC YARD	CU YD						
ANN	ANNUNCIATOR	CURTAIN	CURT						
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	BUILDING AUTOMATION	DIST						
BAS	BASEBOARD	BOOKCASE	DOC						
BC	BOARD	DOOR CLOSER	DPTN						
BD	BOUNDARY	DOOR FRAME	DR						
BDRY	BOUNDARY	DOOR OPENING	DR CL						
BFF	BUILDERS HARDWARE	DOOR HOLDER	DR OPNG						
BHMA	ASSOCIATION	DOOR LOUVER	DRH						
	BITUMINOUS	DOOR STOP	DRLV						
	BLK/HD	DOOR SWITCH	DRST						
	BLT IN	DISHWASHER	DRSW						
	BLW CLG	DRAWING	DW						
BN	BULLNOSE								
BRCG	BRACING								
BRDG	BRIDGING								
BRDG JST	BRIDGING JOIST								
BRG	BEARING								
BRG PL	BEARING PLATE								
BRZ	Bronze								
BTWN	BETWEEN								
BUR	BUILT-UP ROOFING								
C	LABEL	CLASS C DOOR	EJ						
CAB	CABINET	ELEVATION	ELEV						
CAC	CEILING ATTENUATION	ELECTRIC(IAL)	ELEC						
CLASS	CATWALK	EDGE OF SLAB	EOS						
CATW	CEMENTITIOUS BACKER BOARD	EXPANDED POLYSTYRENE BOARD (INSULATION)	EPS						
CBB	CERAMIC	EQUIP	EQ						
CEM	CEMENT FINISH	EXISTING	EXIST						
CEM FIN	CEMENT PLASTER	EXT GR	EXT GR						
CEM PLAS	CEMENT PLAS CLG	EXT LT	EXT LT						
CER	CONTRACTOR FURNISHED/	FIRE BRICK	F BRK						
CF/CI	CONTRACTOR FURNISHED/	FIRE ALARM ANNUNCIATOR	FAAP						
CF/CI	CONTRACTOR FURNISHED/	FIRE ALARM BELL	FABL						
CFE	EQUIPMENT	FIRE ALARM BOX	FACP						
CFLG	COUNTERFLASHING	FIRE ALARM CONTROL	FAN						
CFMF	COLD-FORMED METAL	FLOOR AREA RATIO	FAS BD						
CG	CHAMFER	FASCIA BOARD	FC BRK						
CHFR	CHAMFER	FACE BRICK	FD						
CI	CAST IRON	FIRE DEPARTMENT	FDC						
CIP	CAST-IN-PLACE	CONNECTION	FDCC						
CIR	CIRCLE	FIRE DEPARTMENT CONNECTION	FDMPR						
CJ	CENTER JOINT	FIRE DOOR	FDN						
CL	CENTER LINE	FIRE DEPARTMENT VALVE	FE						
CLDG	CLADDING	FIRE EXTINGUISHER	FEC						
CLG	CEILING	FIRE EXTINGUISHER CABINET	FF						
CLG DIFF	CEILING DIFFUSER	FOIL BACKED BATT	FF BATT						
CLG GR	CEILING GRILLE	FOUNDATION	FF EL						
CLG HT	CEILING HEIGHT	FIRE EXTINGUISHER	FF&E						
CLG REG	CEILING REGISTER	FIRE EXTINGUISHER CABINET							
CLK JT	CAULKED JOINT	FROM FLOOR ABOVE							
CLR	COLOR	FROM FLOOR BELOW							
CMPST	COMPOSITE	EQUAL HYDRANT							
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		REVISION TAG	
NAME	ROOM TAG	DOOR TAG	
NO			
ID	WINDOW TAG	PARTITION TAG	KEYNOTE TAG
100'-0"			
SPOT ELEVATION TAG	CENTER LINE	EQUIPMENT TAG	
NORTH INDICATOR			
PLAN NORTH	PROJECT NORTH LINE	TRUE NORTH LINE	
COLUMN LINE GRID INDICATOR			
ID	GRID IDENTIFICATION	ID	
DRAWING BLOCK TITLE			
VIEW NUMBER	VIEW NAME	VIEW SCALE	GRAPHIC SCALE
C4	X" = X'-X"	0 4' 8' 16'	
DETAIL/CALLOUT IDENTIFICATION			
NO	DETAIL NUMBER	SHEET NUMBER	
NO	SHEET NUMBER		
BUILDING SECTION IDENTIFICATION			
NO	SECTION NUMBER	SHEET NUMBER	
NO	SHEET NUMBER		
WALL SECTION IDENTIFICATION			
NO	SECTION NUMBER	SHEET NUMBER	
NO	SHEET NUMBER		
EXTERIOR ELEVATION IDENTIFICATION			
ELEVATION NAME	ELEVATION		
EXTERIOR ELEVATION IDENTIFICATION			
ELEVATION NUMBER	SHEET NUMBER		
INTERIOR ELEVATION IDENTIFICATION			
ELEVATION NUMBER	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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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064
ISSUED FOR CONSTRUCTION

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

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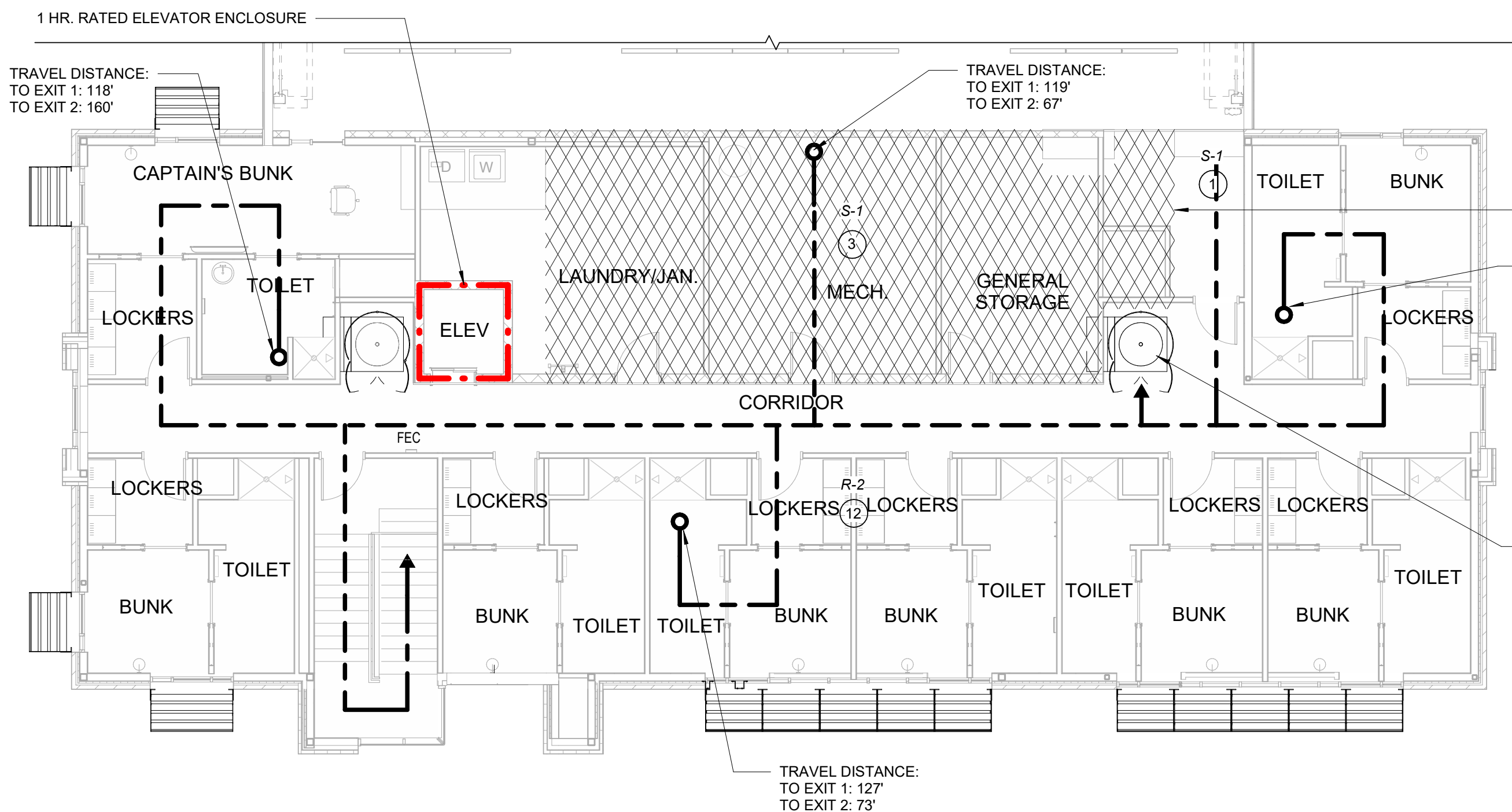
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D

C

B

A



2 LEVEL 2 CODE PLAN

CODE INFORMATION

I. Applicable Codes

- 2018 IBC
- 2020 ICC 500
- ICC/ANSI A117.1-2009
- 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:

- II-B Construction (Per IBC 602)
- Fully Sprinklered (Per IBC 903.2)
- Full Perimeter Frontage (Per IBC 506.3)
- Use Group: Mixed Non-separated S-1, S-2, B, R-2 (Per IBC 508.3)

III. Code Compliance Summary:

A. Building Height & Area:

- 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 Bay;
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

	Required	Proposed
A, B, E, F, M, S, U	0 hr.	0 hr.
R per Code modification. See sheet G-003	0 hr.	0 hr.
Elevator Shaft Enclosure	1 hr.	1 hr.

Notes:

- 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."
- 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 601

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%	0 hr.
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5. Accessory Storage room separation (>100sf)

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:
- Per IBC 2902.1.1, occupancy shall be viewed at 50% male and 50% female
 - 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."
 - Occupant loads for plumbing fixture calculations have been calculated in accordance with IPC Table 403.1 and IBC 2902

Business	1894gsf / 100	18.9occ
- Toilets (M):	19occ / 25	0.76
- Toilets (F):	19occ / 25	0.76
- Lavatories (M):	19occ / 25	0.76
- Lavatories (F):	19occ / 25	0.76
- Drinking Fountain:	19occ / 100	0.19
Residential	2538gsf / 200	12.0occ
- Toilets (M):	12occ / 10	1.20
- Toilets (F):	12occ / 10	1.20
- Lavatories (M):	12occ / 10	1.20
- Lavatories (F):	12occ / 10	1.20
- Showers:	12occ / 8	1.50
- Drinking Fountain:	12occ / 100	0.12
Storage	1969gsf / 300	6.6occ
	3606gsf / 200	18.0occ
	322gsf / 50	6.4occ
- Toilets (M):	31occ / 100	0.31
- Toilets (F):	31occ / 100	0.31
- Lavatories (M):	31occ / 100	0.31
- Lavatories (F):	31occ / 100	0.31
- Drinking Fountain:	31occ / 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:

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

	Required
1. Per IBC Table 1006.2.1	100 ft
B, S	125 ft
R-2	75 ft
All others	

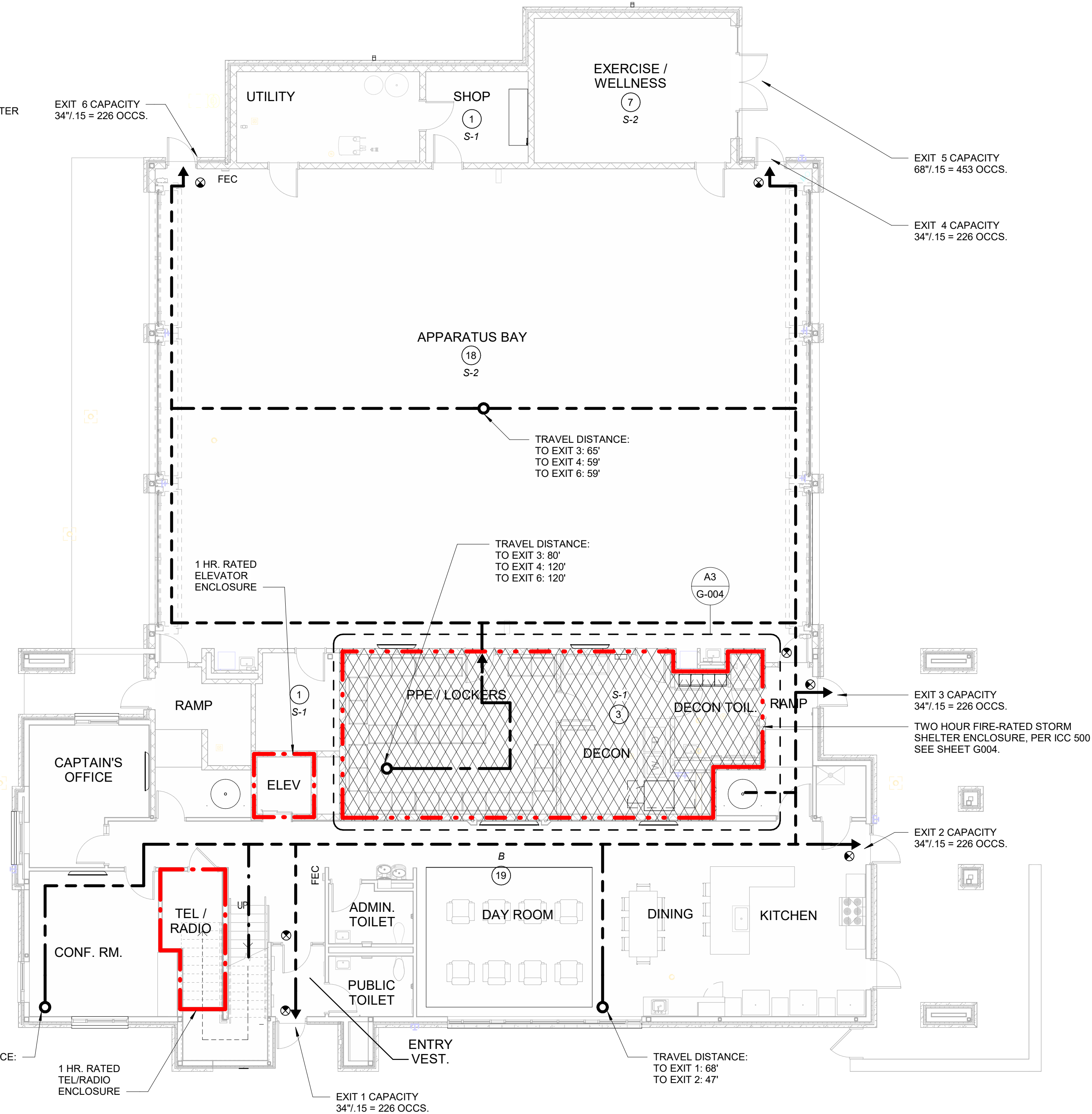
G. Sprinkler System

- NFPA 13
- IBC 903
- Centrally Monitored

H. Fire Alarm System

- 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."

1 LEVEL 1 CODE PLAN



CODE PLAN LEGEND

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

INTERIOR WALL & CEILING FINISH REQUIREMENTS BY OCCUPANCY

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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CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

#	Description	Date
1	ASB 01	11/21/2022

STATE OF MISSOURI
PAUL J. MICHELL
NUMBER
A-2009021701
11/21/22
ARCHITECT

PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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

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CODE SUMMARY

G-002

PLEASE CONSIDER THE ENVIRONMENT
BEFORE PRINTING THIS

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 DEISER - CODES ADMINISTRATION MANAGER () APPROVAL (X) DENIAL

SIGNATURE: Tracy Deister DATE: 8/11/2022

RYAN ELAM - DIRECTOR OF DEVELOPMENT SERVICES: () APPROVED (X) DENIED

SIGNATURE: [Signature] DATE:

COMMENTS: Stations 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 <http://www.ada.gov/reg20102010ADAStandards/Guidance2010ADAa...>

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)(4) 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 industry commenter requested that the triggering event of "first use," as noted in the Advisory note to section 234.1 of the 2004 ADAAG, be included in the final rule. The Advisory note provides that "[a] 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 1991 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 1991 Standards or UFAS. Section 35.151(c)(5) 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 those provisions, noncomplying new construction and alterations constructed or altered after the effective date of the applicable ADA requirements and before March 15, 2012 shall, before March 15, 2012, be made accessible in accordance with either the 1991 Standards, UFAS, or the 2010 Standards. 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(d) 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 those elements in the 1991 Standards or UFAS. Section 35.151(c)(5) 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 those provisions, noncomplying new construction and alterations constructed or altered after the effective date of the applicable ADA requirements and before March 15, 2012 shall, before March 15, 2012, be made accessible in accordance with either the 1991 Standards, UFAS, or the 2010 Standards. 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.

The Department also wishes to clarify that the advisory notes, appendix notes, and figures that accompany the 1991 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 ANPRM 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 provision 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 primarily long-term in

Guidance on the 2010 ADA Standards for Accessible Design: Volume 2 <http://www.ada.gov/reg20102010ADAStandards/Guidance2010ADAa...>

nature" and does not include transient lodging, inpatient medical care, licensed long-term care, 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 rooms" 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 1991 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 stable 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 1991 Standards addressing scoping 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 1991 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 1991 Standards and UFAS—have conferred many social service

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703.956.5600 T
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8 of 655

12/10/2021, 9:57 AM

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 DEISER - CODES ADMINISTRATION MANAGER (X) APPROVAL () DENIAL

SIGNATURE: Tracy Deister DATE: 8/11/2022

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

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 (plain-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, 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

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

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 request 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 out 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-third points of the second floor corridor. As the second floor will house the private bunks 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
11250 ROGER BACON DRIVE, SUITE 16
RESTON, VIRGINIA 20190
TEL: (703) 956-5600

CIVIL ENGINEER & LANDSCAPE ARCH.
GLMV ARCHITECTURE, INC.
MISSOURI CIVIL COA #2018033898
MISSOURI LANDSCAPE COA #000008
9229 WARD PARKWAY, SUITE # 210
KANSAS CITY, MO 64114
TEL: (816) 444-4200

STRUCTURAL ENGINEER
LEIGH & OKANE
MISSOURI COA #001644
2501 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) 863-8700

FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

REVISIONS:
Description Date



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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

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CODE MODIFICATION

G-003

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FILE PATH: BM 360://18225R21001_LeeSummitFireStation_# 4 and #5LSMO_FIRE STATIONS.rvt

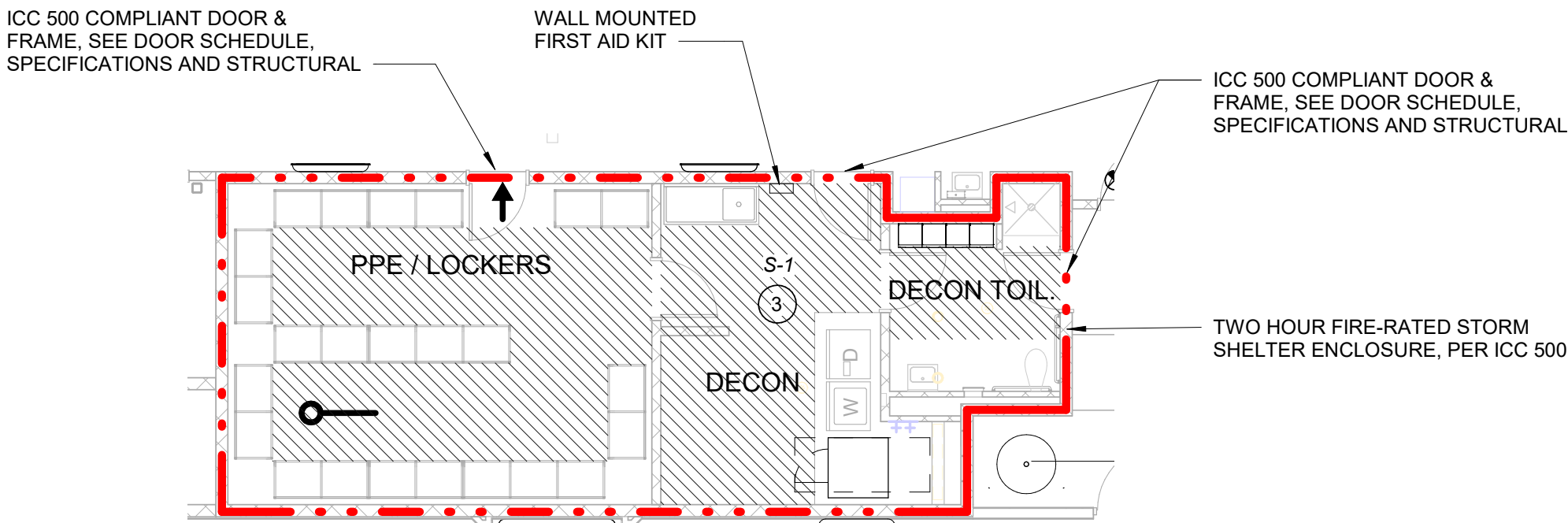
E

D

C

B

A



A3 LEVEL 1 CODE PLAN - STORM SHELTER

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.

§106.2.1 DESIGN INFORMATION	
• TYPE:	COMMUNITY SHELTER FOR TORNADO PROTECTION
• RISK CATEGORY:	IV (FIRE, RESCUE, AMBULANCE AND POLICE STATIONS)
• DESIGN WIND SPEED (V ₁):	250 MPH
• WIND EXPOSURE CATEGORY:	C
• INTERNAL PRESSURE COEFFICIENT (GC _{pi}):	+/- 0.55
• TOPOGRAPHIC FACTOR (K _z):	1.0
• DIRECTIONALITY FACTOR (K _d):	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) REFERENCE MPE SHEET
• VENTING AREA:	
• 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 information in accordance with Section 508.2. Community storm shelter areas shall be marked by signage in accordance with Sections 508.3 through 508.7, as applicable. All signs shall comply with the visual character requirements of ICC 117.1.

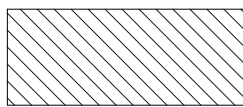
508.2 DESIGN INFORMATION SIGNAGE.
All storm shelters shall have a sign on or within the storm shelter with all of the following:
1. The design occupant capacity.
2. The storm type.
3. The design wind speed.
4. The edition of the ICC 500 used for the design.
5. The name of the manufacturer or builder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



CONSULTING ARCHITECT
FSMA ARCHITECTS
11250 ROGER BACON DRIVE, SUITE 16
RESTON, VIRGINIA 20190
TEL: (703) 956-5600

CIVIL ENGINEER & LANDSCAPE ARCH.
GLMV ARCHITECTURE, INC.
MISSOURI CIVIL COA #2018033898
MISSOURI LANDSCAPE COA #000008
9229 WARD PARKWAY, SUITE # 210
KANSAS CITY, MO 64114
TEL: (816) 444-4200

STRUCTURAL ENGINEER
LEIGH + OKANE
MISSOURI COA #001644
250 NE MULBERRY, SUITE 201
LEE'S SUMMIT, MO 64086
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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 #4
CITY OF LEE'S SUMMIT**
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

REVISIONS:

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



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

The Professional Architects seal affixed to this sheet applies only to the material and work shown on this sheet. All drawings, specifications or other documents not exhibiting this seal shall not be considered prepared by the architect, and the architect expressly disclaims any and all responsibility for such plans, drawings, or documents not exhibiting this seal.

PROJECT NO: 18225R21001

DATE: 11.21.2022

DRAWN BY: CRB

CHK'D BY: PJM

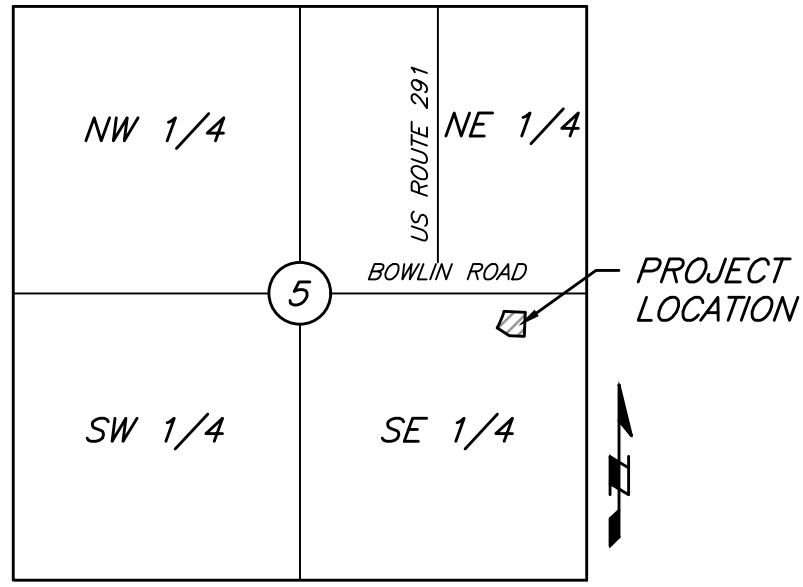
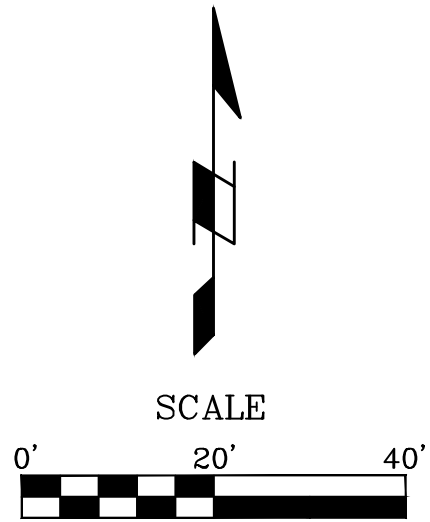
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**STORM SHELTER
CODE SUMMARY**

G-004

PLEASE CONSIDER THE ENVIRONMENT
BEFORE PRINTING THIS

ALTA/NSPS LAND TITLE SURVEY
LOT 6-A; EXECUTIVE LAKES CENTER, LOTS 6-A and 8-B
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



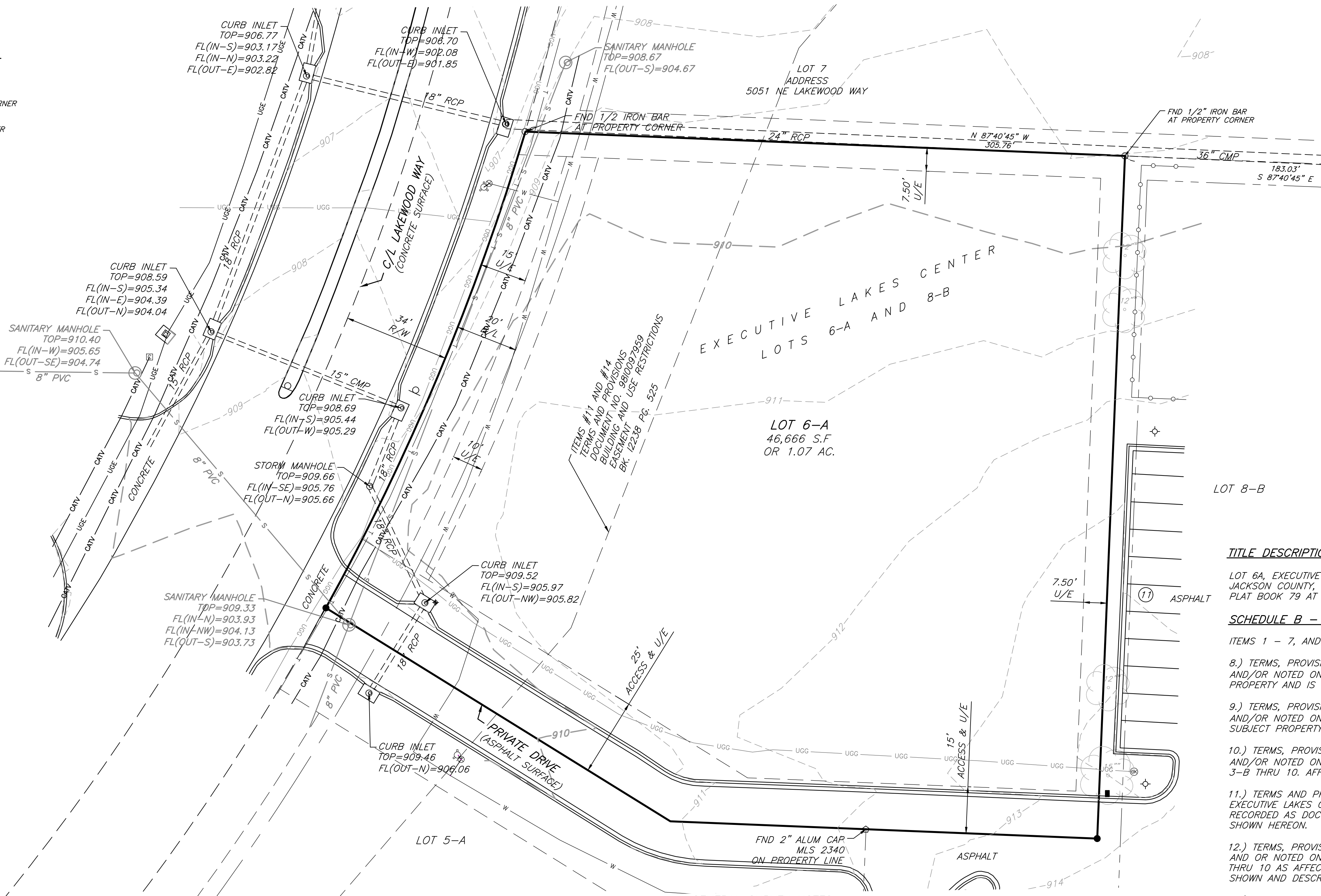
CLIENT:
GLMV
9229 Ward Parkway
Kansas City, Mo 64114

PROPERTY ADDRESS:
5031 NE Lakewood Way
Lee's Summit, Mo 64064

PROPERTY DESCRIPTION:
All of Lot 6-A, EXECUTIVE LAKES CENTER
Lots 6-A and 8-B, a subdivision in the
SE 1/4 of Section 5- T 48 N - R 31
W, Lee's Summit, Jackson County,
Missouri

**RELEASED FOR
CONSTRUCTION**
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/15/2022

LEGEND	
	- BENCHMARK
	- MONUMENT FOUND 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
B/L	- BUILDING SETBACK LINE
U/E	- UTILITY EASEMENT
	- EXISTING TREE
	- LIGHT POLE
	- WATER METER
	- WATER VALVE
	- FIRE HYDRANT
	- ELECTRIC TRANSFORMER
	- CABLE TRANSFORMER
	- GAS PIPELINE MARKER
	- SANITARY MANHOLE
	- STORM MANHOLE
	- MAILBOX
	- SIGN AS NOTED
	- PARKING STALL
	- CHAIN LINK FENCE
S	- SANITARY SEWER LINE



GENERAL SURVEY NOTES:

- 1.) The plat of EXECUTIVE LAKES CENTER is recorded in Plat Book 1-79 at Page 65 in the Recorder of Deeds Office in Jackson County, Missouri.
- 2.) The plat of EXECUTIVE LAKES CENTER LOTS 3-B & 4 THRU 10 is recorded in Plat Book 1-79 at Page 65 in the Recorder of Deeds Office in Jackson County, Missouri.
- 3.) Title Report No. MJ116323 dated November 24, 2020 at 8:00 AM was provided by First American Title Insurance Company.
- 4.) Bearings used on this survey are based on the Missouri State Plane coordinate system from GPS observation.
- 5.) 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) 29095C0313G, effective January 20, 2017.
- 6.) There are NO parking stalls identified on Subject Property at the time of this survey.
- 7.) Under Ground Utilities are shown as located by Missouri one call ticket No. 211930316 dated July 12, 2021
- 8.) There were no Wetland Delineations marked, at the time of survey.
- 9.) This Property is Zoned CP-2, Planned Community Commercial.
- 10.) There was no evidence of Earth moving work, building construction, or building additions observed in the process of conducting the fieldwork

SURVEY CONTROL POINTS				
Point #	Northing	Easting	Elevation	Description
2	1034478.67	2829553.65	944.23	JA-29
11	1032758.54	2830285.01	912.19	2" ALUM CAP MLS 234D
15	1032831.68	2830146.43	909.59	SQUARE CUT

BENCHMARKS:

STATION JA-29: Alum Disk Located about 5.5 miles North of Lee's Summit and between I-470 and the East outer Road of North Bound ramp #14

ELEVATION = 944.23

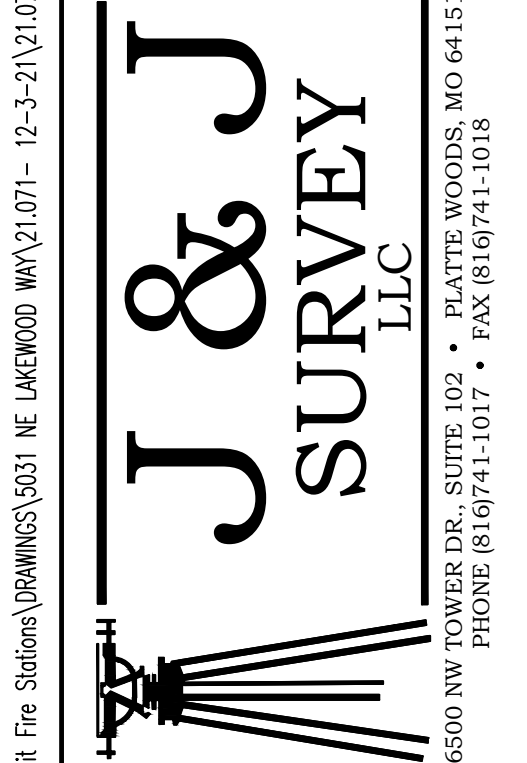
UTILITY NOTE:

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.

CERTIFICATION:

To: First American Title Insurance Company, and
Bahman Tehrani, D.D.S P.C., dba Lakewood Dental
Center, and Jaleh Nikfarjam, his wife.

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, 6, 7, 8, 9, 11, 13 and 15 of Table A, thereof. The field work was completed on the 12th day of July, 2021.



Location: S:\21.071 - Lee's Summit, Fire Stations\DRAWINGS\5031 NE LAKEWOOD WAY\21.071-12-3-21\071-ALTA 12-3-21 (C.dwg)-Dec 07, 2021-1:26pm

		07-30-21				08-26-21				12-3-21				12-07-21			
		INITIAL	SUBMITTAL	REVISED	DWG	REVISED	PER	COMMENTS		REVISED	PER	COMMENTS		REVISED	PER	COMMENTS	
1																	
2																	
3																	
4																	

SHEET 1 OF 1

GS001

LEE'S SUMMIT FIRE STATION NO. 4

5031 NORTHEAST LAKEWOOD WAY

LEE'S SUMMIT, MISSOURI 64064

FINAL DEVELOPMENT PLAN

PRCOM20225294

CONSULTANT:



9229 WARD PKWY
KANSAS CITY, MISSOURI 64114
DERICK HOLMES
derick.holmes@glmv.com
T (816) 444-4200

PARCEL INFORMATION:

ACREAGE: 1.17

ADDRESS: 5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MO 64064

LEGAL DESCRIPTION ALL OF LOT 6-A, EXECUTIVE LAKES
CENTER LOTS 6-A AND 8-B, A SUBDIVISION
IN THE SE 1/4 OF SECTION 5- T 48 N - R 31 W,
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

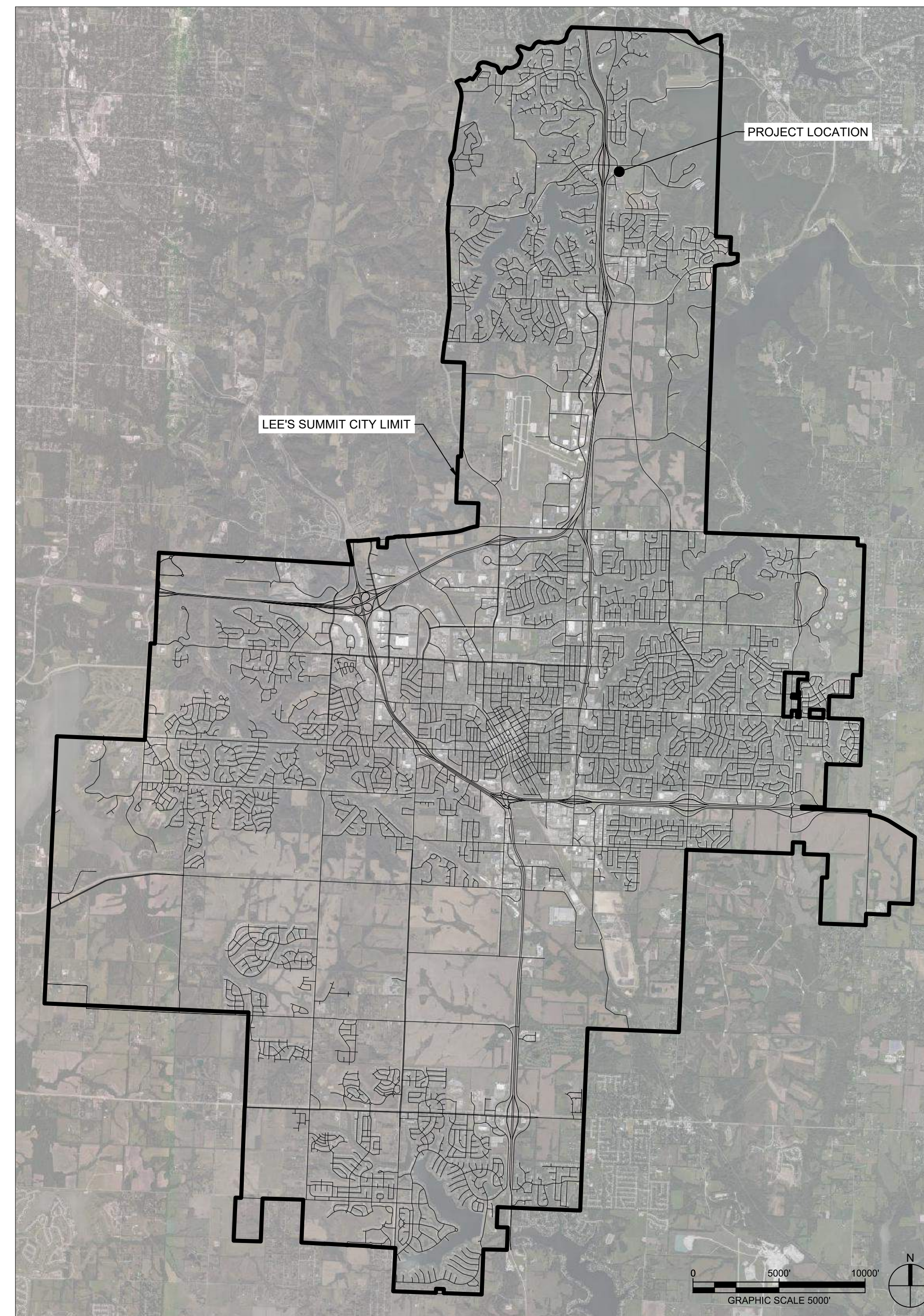
FEMA FLOODPLAIN THE SUBJECT PROPERTY IS LOCATED IN
ZONE X. AREAS DETERMINED TO BE
OUTSIDE THE 0.2% ANNUAL CHANCE
FLOODPLAIN, AS SHOWN ON FLOOD
INSURANCE RATE MAP (FIRM) 29095C0313G,
EFFECTIVE JANUARY 20, 2017.

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
DECEMBER 7, 2021.
2. MISSOURI SPATIAL DATA INFORMATION
SERVICE (FEBRUARY 20, 2022), MO 2018
STATE PERMITTED OIL AND GAS WELLS.
RETRIEVED FROM
HTTP://DATA-MSDIS.OPENDATA.ARCGIS.COM/DATASETS

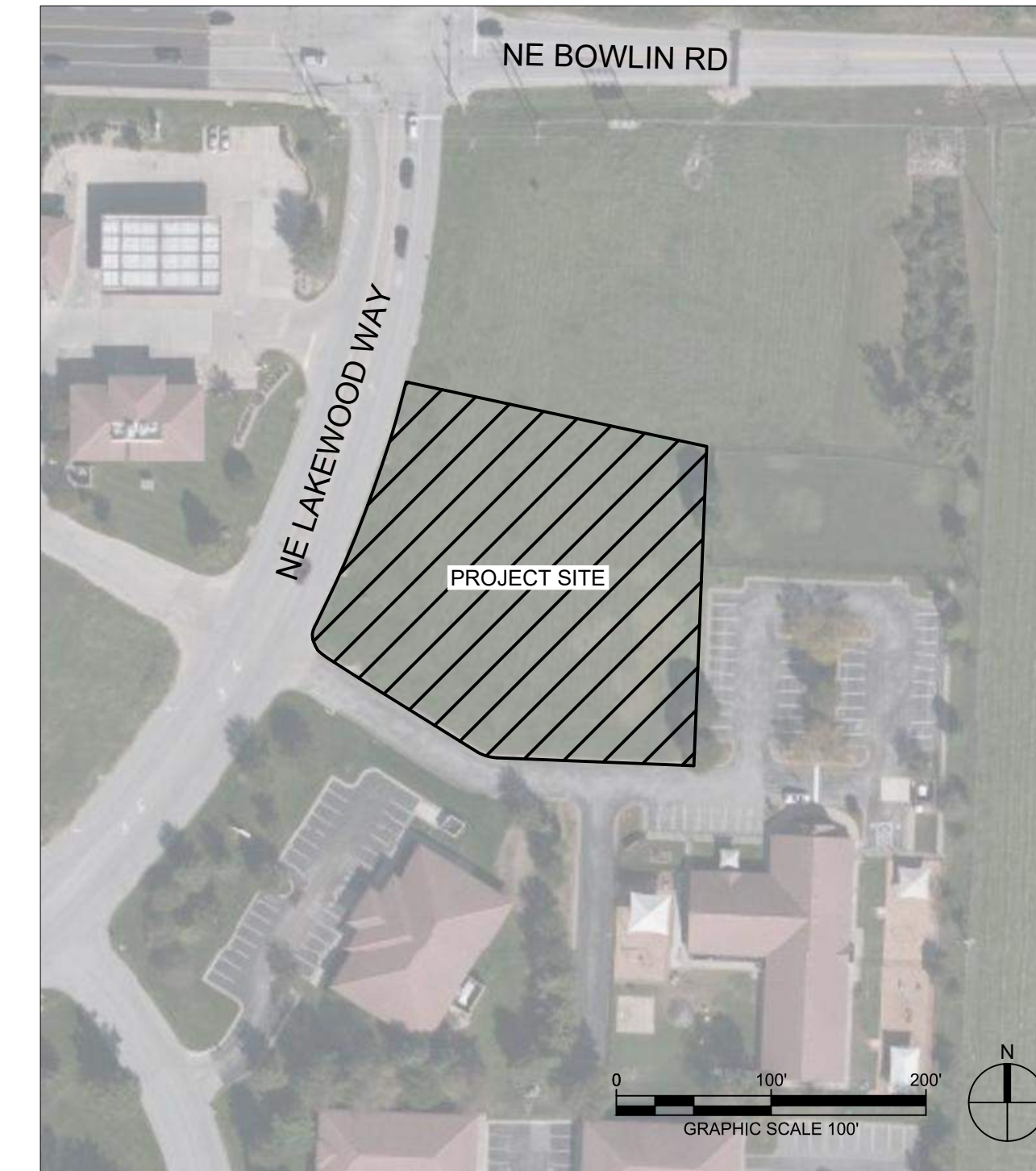
ZONING CP-2, PLANNED COMMUNITY COMMERCIAL

LAND USE SCHEDULE	
TOTAL FLOOR AREA	12,189 SF
NUMBER OF DWELLING UNITS	8
LAND AREA	1.17 ACRES
REQUIRED PARKING	DIRECTED BY FIRE CHIEF
PROPOSED PARKING	15 SPACES
IMPERVIOUS COVERAGE	32,464 SF (.75 ACRES)
FLOOR AREA RATIO (FAR)	0.24
PERMITTED LAND USE	FIRE STATION - MUNICIPAL = CONDITIONAL
DWELLING UNITS PER ACRE WITH COMMON AREA	6.84
DWELLING UNITS PER ACRE WITHOUT COMMON AREA	6.84

VICINITY MAP

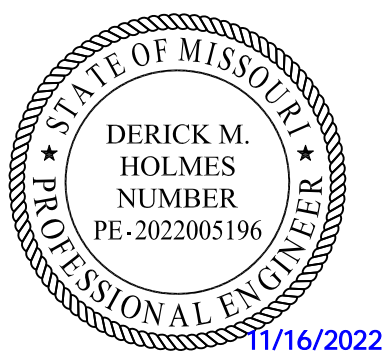


SITE LOCATION MAP



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 & PROFILES
C-231	PRIVATE STORMWATER PROFILES
C-400	GRADING ENLARGEMENTS
C-500	SITE DETAILS
C-501	SITE DETAILS
C-502	SITE DETAILS
C-503	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



#	Description	Date
1	ASI 01	11.16.2022

ISSUED FOR
PERMITTING

PROJECT NO: 18225R21001
DATE: 10.19.2022

COVER
SHEET

C-001

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Lee's Summit, Missouri
12/15/2022

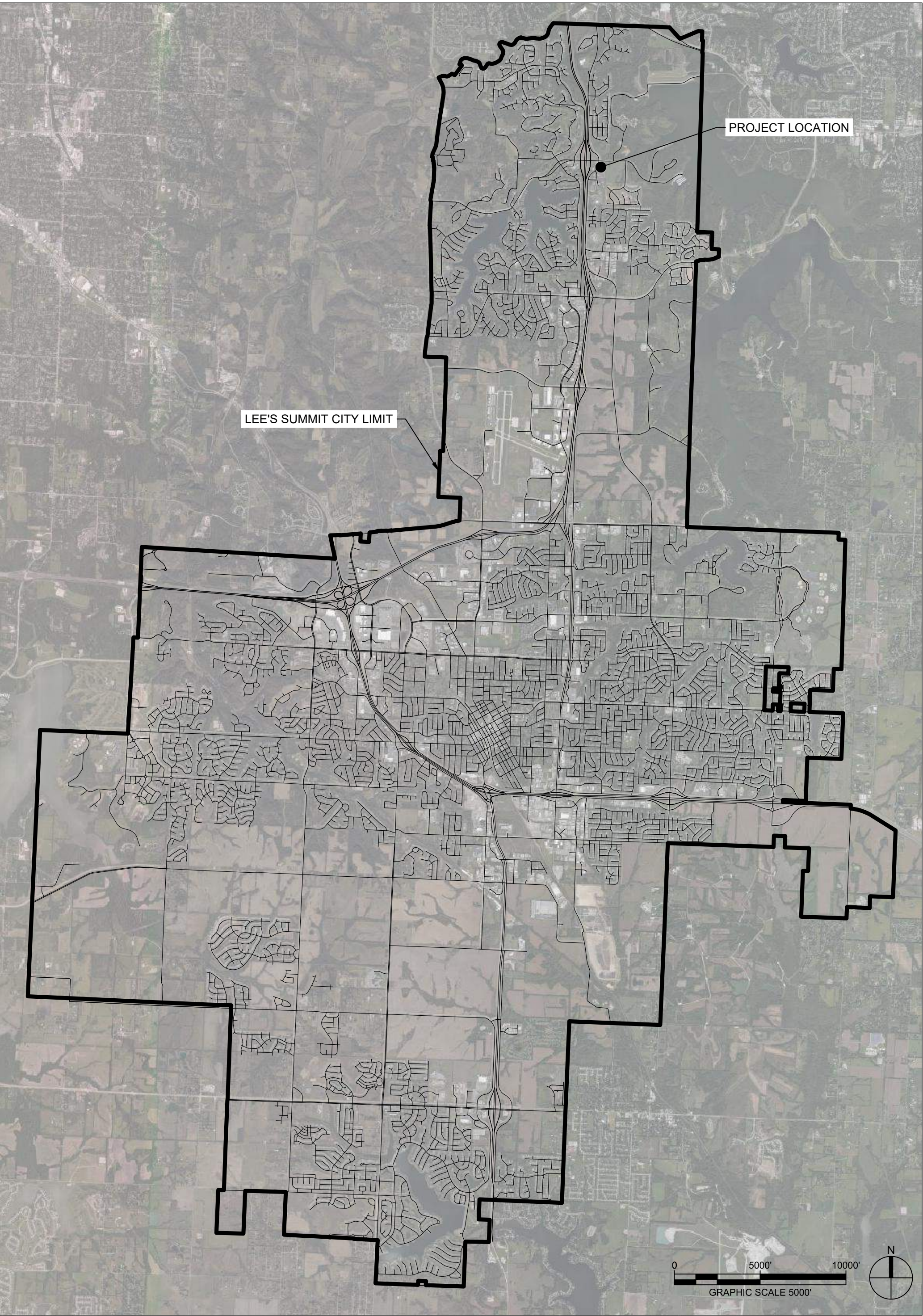
LEE'S SUMMIT FIRE STATION NO. 4
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064
PUBLIC OFFSITE STORM SEWER

CONSULTANT:

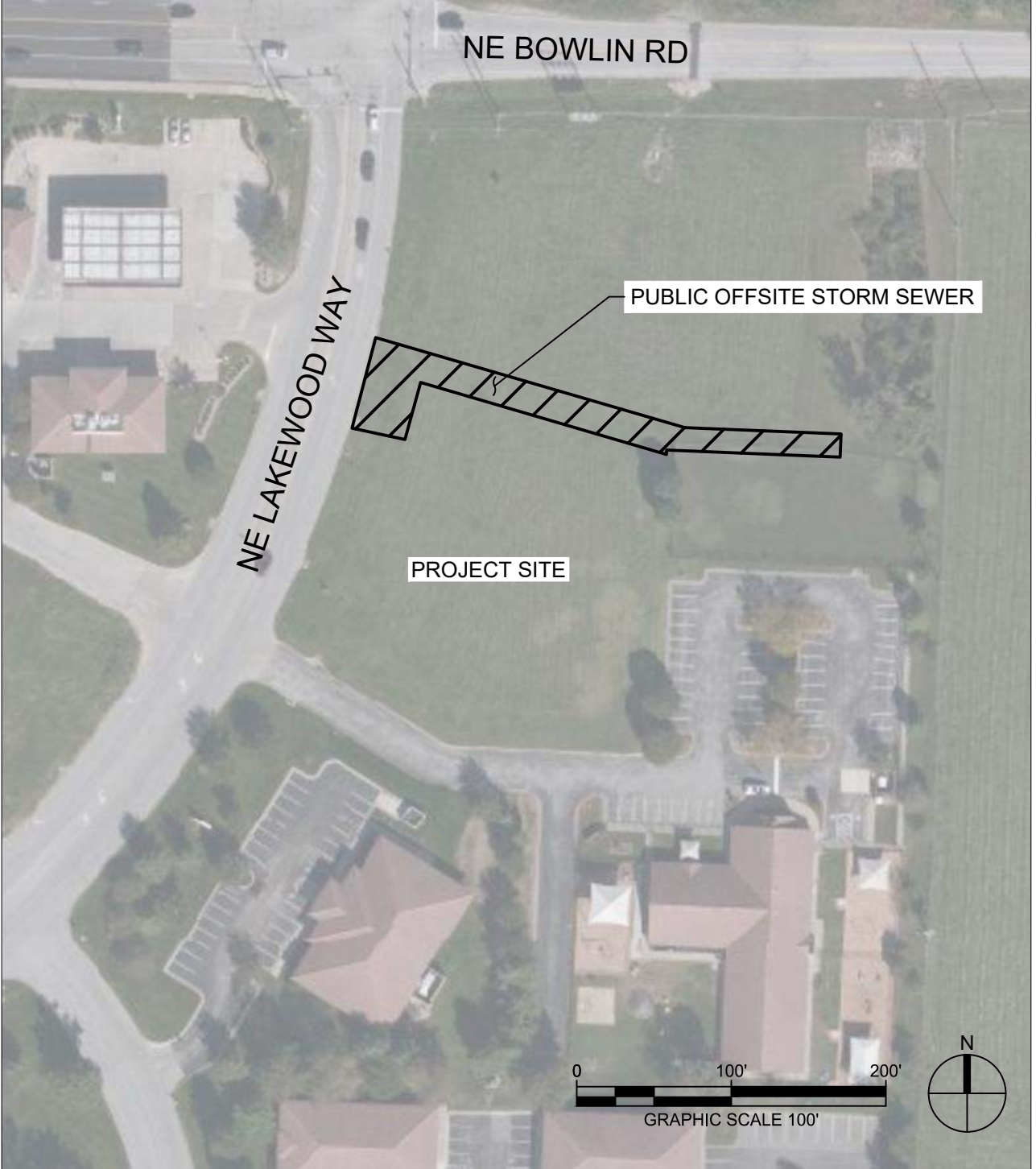


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VICINITY MAP



SITE LOCATION MAP



INDEX OF DRAWINGS

SHEET NO.	SHEET NAME
C-002	COVER SHEET
C-230	PUBLIC STORMWATER PROFILES
C-530	STORMWATER DETAILS
C-540	SANITARY SEWER DETAILS

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Lee's Summit, Missouri
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PL2022369
PRSUBD20226148



#	Description	Date
3	ASI 03	12.08.2022

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PERMITTING

PROJECT NO: 18225R21001
DATE: 12.08.2022

COVER
SHEET

C-002

NEW SHEET

LEE'S SUMMIT FIRE STATION NO. 4

5031 NORTHEAST LAKEWOOD WAY

LEE'S SUMMIT, MISSOURI 64064

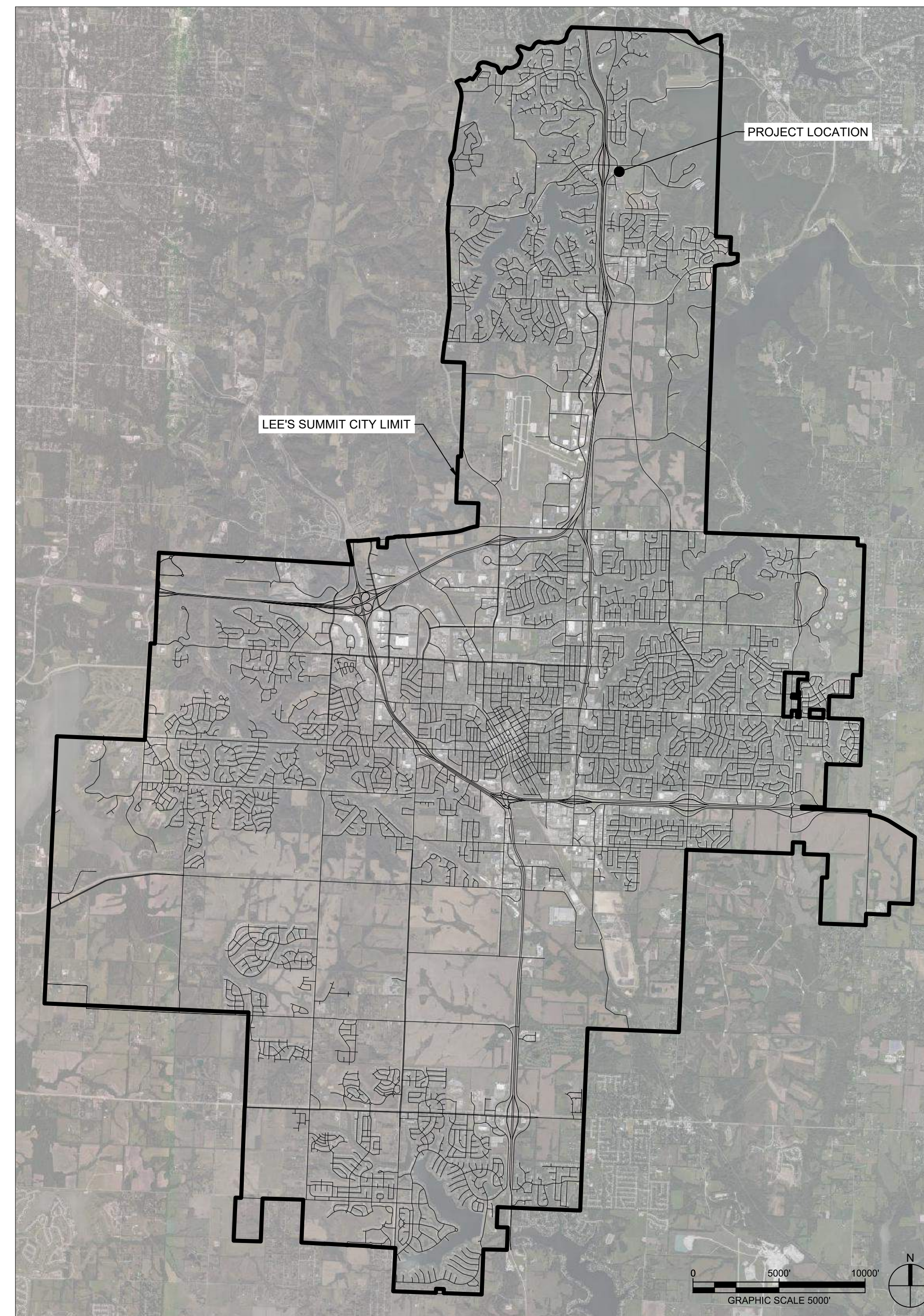
PUBLIC SANITARY SEWER MODIFICATIONS

CONSULTANT:

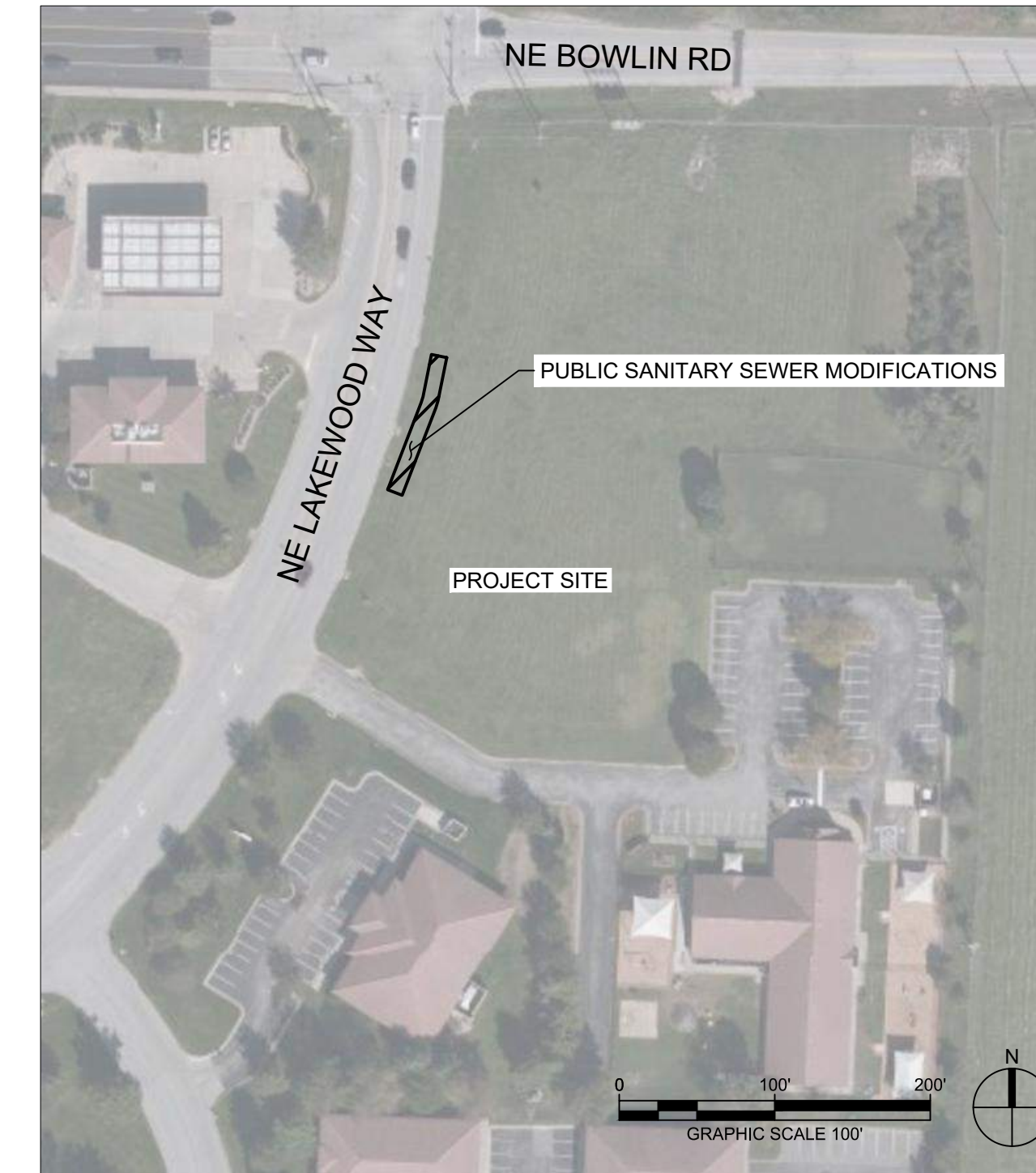


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VICINITY MAP



SITE LOCATION MAP

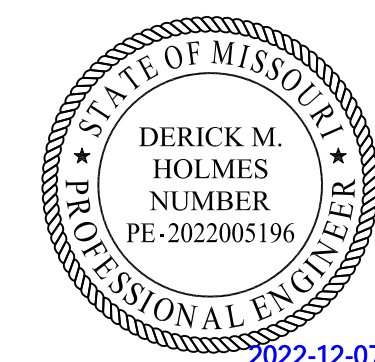


INDEX OF DRAWINGS

SHEET NO.	SHEET NAME
C-003	COVER SHEET
C-240	PUBLIC SANITARY SEWER PLAN & PROFILES
C-540	SANITARY SEWER DETAILS

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Lee's Summit, Missouri
12/16/2022

PL2022371
PRSUBD20226148



#	Description	Date
3	ASI 03	12.08.2022

ISSUED FOR
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PROJECT NO: 18225R21001
DATE: 12.08.2022

COVER
SHEET

C-003

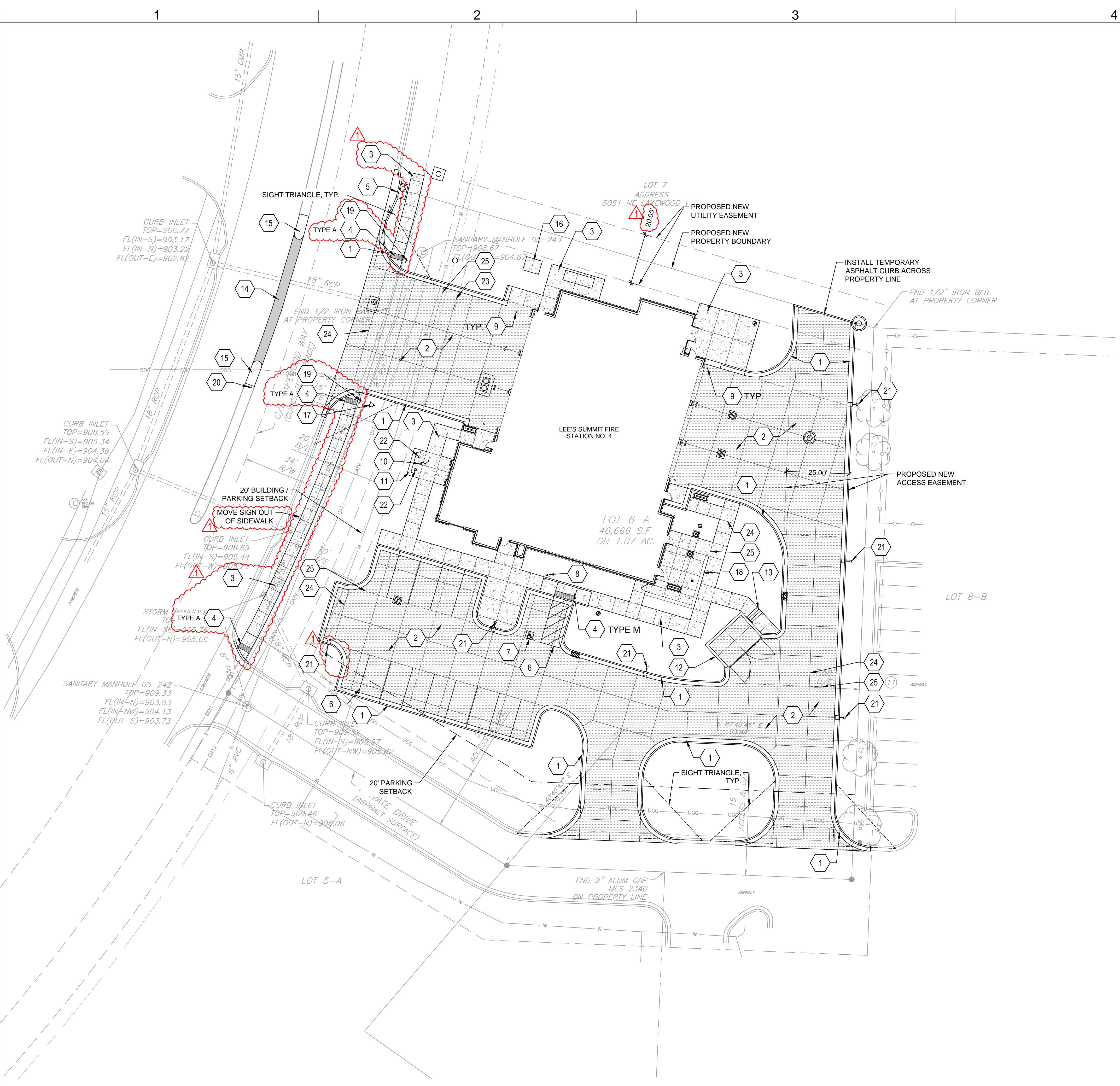
NEW SHEET

D

C

B

A



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, SPECIFICATIONS, AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
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

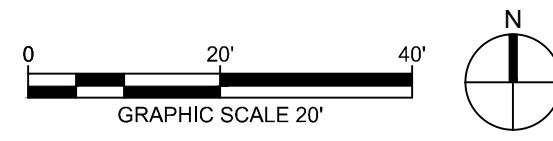
- 1 TYPE CG-1 CURB & GUTTER
LEE'S SUMMIT STANDARD DETAIL
REF: 3/C-502
- 2 TYP. CONCRETE PAVING
REF: 1/C-500
- 3 CONCRETE SIDEWALK PAVING
REF: 1/C-503
- 4 ADA SIDEWALK RAMP
REF: 4/C-503
- 5 CURB INLET
REF: C-104
- 6 PAVEMENT STRIPING
REF: 4/C-500
- 7 ADA PAVEMENT MARKING
REF: 5/C-500
- 8 ADA PARKING SIGN
REF: 6/C-500
- 9 TYP. SAFETY BOLLARD
REF: 3/C-500
- 10 FLAG POLE
REF: 8/C-500
- 11 MONUMENT SIGN
REF: 9/C-500
- 12 DUMPSTER ENCLOSURE
REF: 1-6/C-501
- 13 CONCRETE STEPS WITH RAILING
REF: 12/C-500
- 14 ROADWAY ASPHALT PATCH
LEE'S SUMMIT STANDARD DETAIL
REF: 2/C-503
- 15 MEDIAN TRANSITION
LEE'S SUMMIT STANDARD DETAIL
REF: 3/C-503
- 16 TRANSFORMER CONCRETE PAD
REF: MEP
- 17 RELOCATED FIRE HYDRANT
REF: C-220
- 18 SCREEN WALL
REF: ARCH
- 19 DO NOT ENTER SIGN
REF: 7/C-500
- 20 NO LEFT/TURN SIGN
REF: 2/C-500
- 21 TYP. AREA LIGHTING
REF: ELECTRICAL
- 22 TYP. FLAG POLE LIGHTING
REF: ELECTRICAL
- 23 LIMITS OF SNOW MELT SYSTEM
REF: MEP
- 24 CONSTRUCTION JOINT
REF: 2/C-502
- 25 ISOLATION JOINT
REF: 2/C-502

LEGEND

- TYP. CURB & GUTTER
- TYP. CONCRETE PAVING
- ASPHALT PATCH
- CONCRETE SIDEWALK

SITE PLAN

1" = 20'-0"



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9229 WARD PARKWAY
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FAX: (316) 265-5646
www.glmv.com

GLMV ARCHITECTURE, INC.
MISSOURI STATE CERTIFICATE OF AUTHORITY
#00008

CIVIL ENGINEER & LANDSCAPE ARCH.
GLMV ARCHITECTURE, INC.
MISSOURI CIVIL COA #2019033898
MISSOURI LANDSCAPE COA #000008
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STRUCTURAL ENGINEER
LEIGH + O'KANE
MISSOURI COA #001644
250 NE MURBERRY, SUITE 201
LEE'S SUMMIT, MO, 64086
(816) 444-3144 PHONE

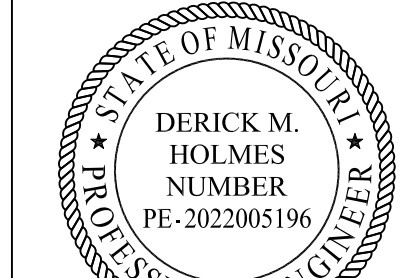
MECH. ELEC. & PLUMBING ENGINEERS
HOSS & BROWN ENGINEERS
MISSOURI COA #01022
15902 MIDLAND DRIVE
SHAWNEE, KS 66217
(913) 362-9090 PHONE

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

FIRE STATION #4 CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

#	Description	Date
1	ASI 01	11.16.2022



DERICK HOLMES - CIVIL ENGINEER
MO# PE-2022005196

The Professional Engineers and drafters of this sheet are not responsible for the design or construction of any structure or other work shown on this sheet. It is the responsibility of the client to provide all necessary information and to verify the accuracy of the information provided. The engineer assumes no responsibility for the design or construction of any structure or other work shown on this sheet.

PROJECT NO: 18225R21001
DATE: 10.19.2022
DRAWN BY: KDW
CHKD BY: DMH

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SITE PLAN

C-100

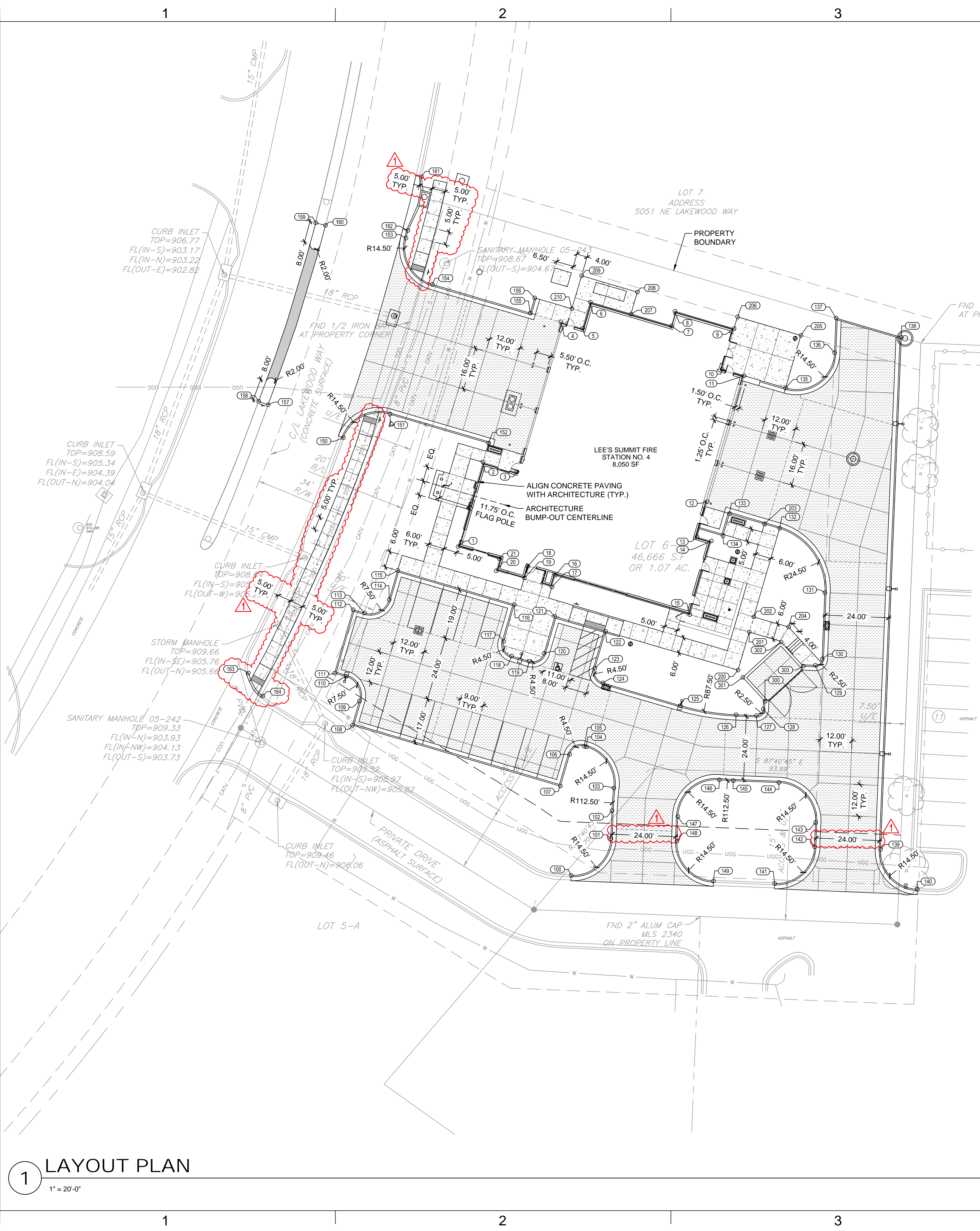
PLEASE CONSIDER THE ENVIRONMENT
BEFORE PRINTING THIS

D

C

B

A



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	1032898.4666	2830193.3865	BLDG
2	1032930.4565	2830202.7537	BLDG
3	1032926.7096	2830215.5497	BLDG
4	1032983.5720	2830232.1999	BLDG
5	1032981.1366	2830240.5173	BLDG
6	1032991.0130	2830243.4111	BLDG
7	1032982.0298	2830274.0899	BLDG
8	1032987.5530	2830275.3924	BLDG
9	1032980.9960	2830297.7855	BLDG
10	1032965.6007	2830293.2776	BLDG
11	1032963.1653	2830301.5950	BLDG
12	1032915.5400	2830287.6496	BLDG
13	1032902.2241	2830283.7505	BLDG
14	1032900.6317	2830289.1889	BLDG
15	1032872.8005	2830281.0396	BLDG
16	1032887.6943	2830230.1753	BLDG
17	1032883.2157	2830228.8639	BLDG
18	1032891.1054	2830219.7122	BLDG
19	1032886.6268	2830218.4008	BLDG
20	1032889.3981	2830207.7504	BLDG
21	1032893.8767	2830209.0618	BLDG
100	1032774.0984	2830236.1407	CURB
101	1032788.0184	2830251.1687	CURB
102	1032798.6021	2830251.5850	CURB
103	1032807.1474	2830252.2480	CURB
104	1032822.7345	2830241.9193	CURB
105	1032822.9639	2830241.1359	CURB
106	1032819.9098	2830235.5527	CURB
107	1032807.9135	2830232.0400	CURB
108	1032830.9568	2830153.3443	CURB
109	1032840.0739	2830156.0140	CURB
110	1032849.3793	2830150.9238	CURB
111	1032850.6439	2830146.6052	CURB
112	1032874.6365	2830153.6305	CURB
113	1032873.3719	2830157.9492	CURB
114	1032878.4621	2830167.2546	CURB
115	1032889.4987	2830170.4863	CURB
116	1032876.5720	2830214.6326	CURB
117	1032862.6563	2830210.5579	CURB
118	1032857.0730	2830213.6120	CURB
119	1032855.1059	2830220.3299	CURB
120	1032858.1600	2830225.9131	CURB
121	1032872.0757	2830229.9879	CURB
122	1032866.4554	2830249.1819	CURB
123	1032852.5397	2830245.1072	CURB
124	1032846.9565	2830248.1613	CURB
125	1032838.3651	2830277.5021	CURB
126	1032834.9110	2830298.5431	CURB
127	1032834.5973	2830306.2742	CURB
128	1032836.9936	2830308.8735	CURB
129	1032853.6174	2830328.5631	CURB

LAYOUT TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
130	1032856.0141	2830331.1625	CURB
131	1032881.0650	2830332.1775	CURB
132	1032905.4284	2830315.0476	CURB
133	1032910.9977	2830296.0450	CURB
134	1032902.6403	2830293.5978	CURB
135	1032958.5666	2830317.3002	CURB
136	1032971.8943	2830335.8630	CURB
137	1032984.9734	2830336.3938	CURB
138	1032977.7330	2830361.1205	CURB
139	1032783.9463	2830353.2567	CURB
140	1032768.8692	2830367.1848	CURB
141	1032771.0685	2830313.1866	CURB
142	1032784.9680	2830328.2776	CURB
143	1032794.1568	2830328.6505	CURB
144	1032809.2328	2830314.7503	CURB
145	1032809.9316	2830297.5294	CURB
146	1032810.2684	2830292.2719	CURB
147	1032796.3937	2830276.5175	CURB
148	1032787.0774	2830276.1510	CURB
149	1032772.0204	2830290.0301	CURB
150	1032939.7241	2830149.9055	CURB
151	1032948.6137	2830167.5813	CURB
152	1032937.6942	2830204.8730	CURB
153	1033015.1953	2830173.6316	CURB
154	1032997.7133	2830183.6113	CURB
155	1032986.8644	2830220.6601	CURB
156	1032992.6225	2830222.3462	CURB
157	1032952.1542	2830121.4178	CURB
158	1032953.4743	2830117.8512	CURB
159	1033021.0271	2830139.4536	CURB
160	1033020.0818	2830143.1406	CURB
161	1033038.4377	2830179.4824	CURB
162	1033018.1107	2830174.3714	CURB
163	1032850.7153	2830113.9461	CURB
164	1032841.9942	2830119.4201	CURB
200	1032851.7697	2830299.3356	PAVE
201	1032866.2054	2830303.5626	PAVE
202	1032871.9637	2830305.2487	PAVE
203	1032907.1191	2830309.2908	PAVE
204	1032868.0874	2830318.4867	PAVE
205	1032978.4404	2830323.1196	PAVE
206	1032985.4745	2830299.0969	PAVE
207	1032986.5168	2830258.7664	PAVE
208	1032994.8341	2830261.2018	PAVE
209	1033001.0165	2830240.0884	PAVE
210	1032988.5004	2830236.4235	PAVE
300	1032839.9703	2830309.4952	WALL
301	1032849.0374	2830301.1351	WALL
302	1032862.3710	2830315.5962	WALL
303	1032853.3039	2830323.9563	WALL

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LEGEND	
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	TYP. CONCRETE PAVING
	ASPHALT PATCH
	CONCRETE SIDEWALK



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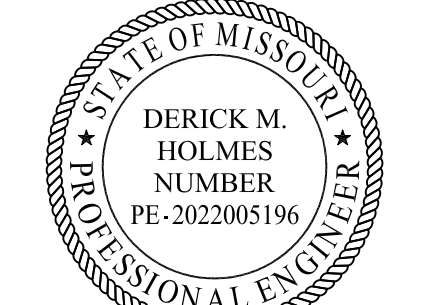
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LEE'S SUMMIT, MISSOURI 64064

#	Description	Date
1	ASI 01	11.16.2022



DERICK HOLMES - CIVIL ENGINEER
MO# PE-2022005196
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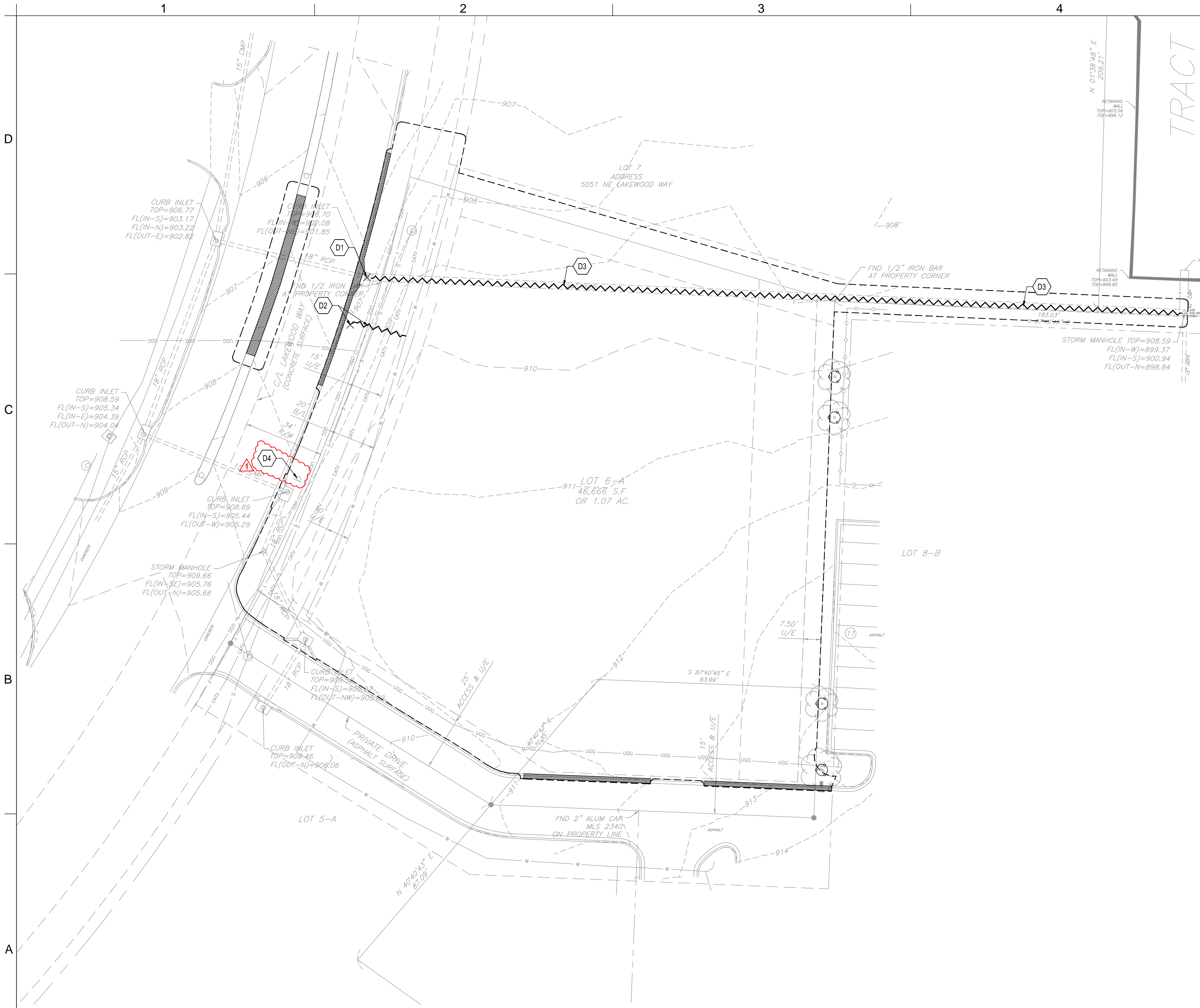
PROJECT NO: 18225R21001
DATE: 10.19.2022
DRAWN BY: KDW
CHKD BY: DMH

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LAYOUT PLAN

C-101

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- DEMOLITION NOTES:**
1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) 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 INLET, CONVERT TO JUNCTION BOX.
REF: C-104 - GRADING & DRAINAGE PLAN
 - D2 RELOCATE FIRE HYDRANT.
REF: C-220 - PUBLIC WATER PLAN & PROFILE
 - D3 REMOVE AND RELOCATE STORMWATER PIPE
REF: C-104 - GRADING & DRAINAGE PLAN
 - D4 REMOVE AND REPLACE EXISTING SIGN TO AVOID PROPOSED SIDEWALK.

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/15/2022

LEGEND

- PAVEMENT TO BE REMOVED
- TREE TO BE PROTECTED
- SITE FEATURE TO BE REMOVED
- LIMITS OF DISTURBANCE

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FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
1	AS101	11.16.2022

STATE OF MISSOURI
DERICK M. HOLMES
NUMBER
PE-2022005196
PROFESSIONAL ENGINEER
11/16/2022
DERICK HOLMES - CIVIL ENGINEER
MO# PE-2022005196
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PROJECT NO: 18225R21001

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CHKD BY:	DMH

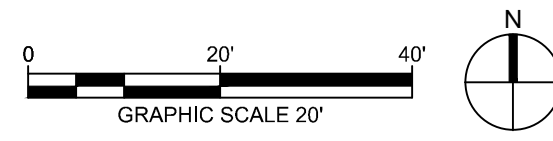
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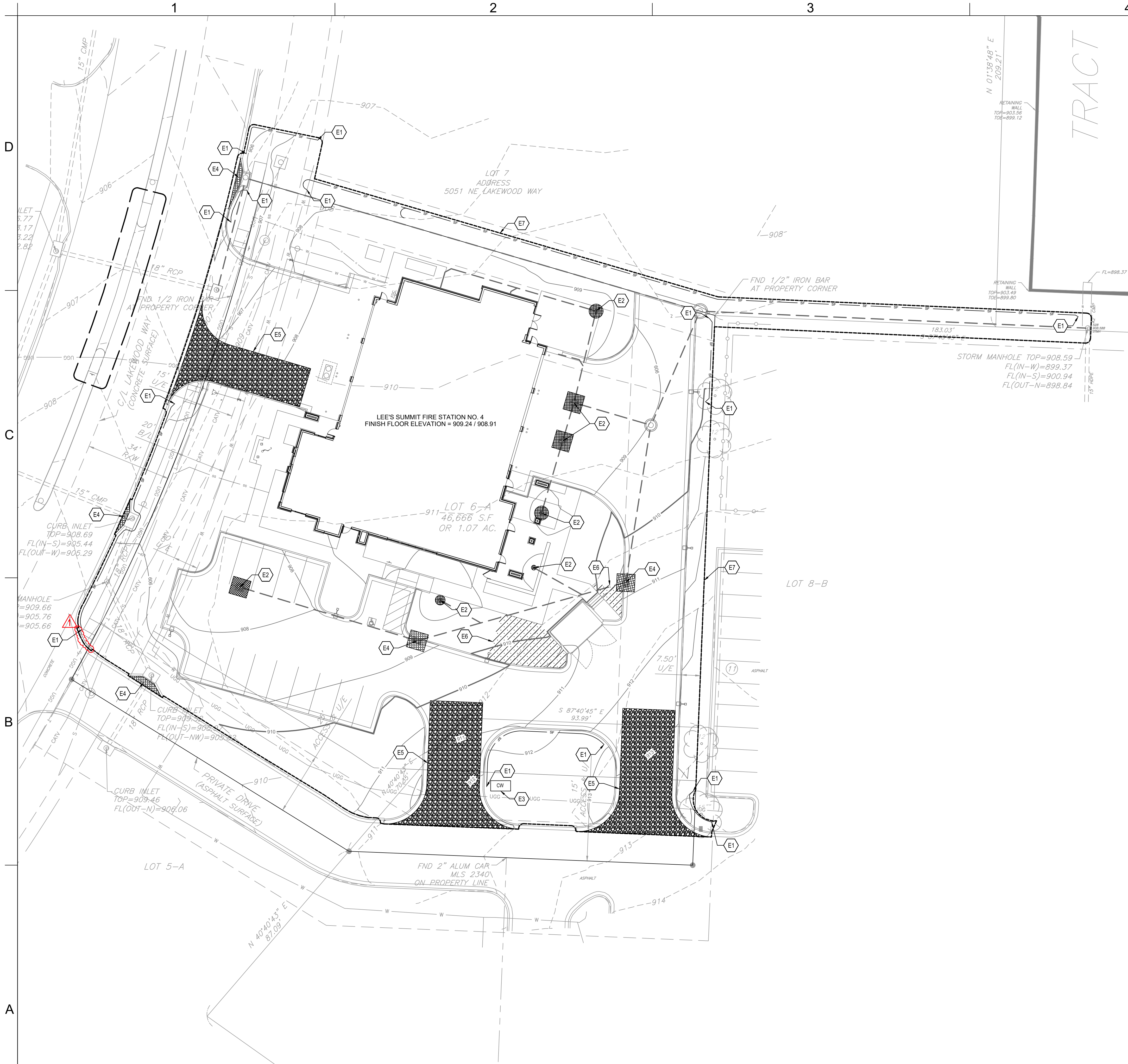
DEMOLITION PLAN

C-102

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS

DEMOLITION PLAN
1" = 20'-0"





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. THE RECOMMENDED SEQUENCE OF CONSTRUCTION ACTIVITIES AND OF THE INSTALLATION AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES IS AS FOLLOWS:
 - 2.1. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES
 - 2.2. INSTALL TEMPORARY PERIMETER SILT FENCE
 - 2.3. INSTALL TEMPORARY EXISTING CURB INLET PROTECTION
 - 2.4. CONSTRUCT SITE IMPROVEMENTS
 - 2.5. INSTALL PROTECTION FOR NEWLY INSTALLED CURB INLETS, AREA INLETS, AND JUNCTION BOXES
 - 2.6. INSTALL EROSION AND SEDIMENT CONTROL BLANKETS
 - 2.7. SEED, FERTILIZE, AND MULCH ALL SLOPES AND DISTURBED AREAS
 - 2.8. REMOVE TEMPORARY PRACTICES, PERIMETER CONTROLS, AND SITE CLEANUP.
3. 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.
4. 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.
5. 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.
6. SOIL STOCKPILED FOR MORE THAN 7 DAYS WILL HAVE SILT FENCE PLACED ON THE DOWNHILL SIDE TO TRAP SEDIMENT.
7. NO GROUND SHALL BE LEFT DISTURBED FOR MORE THAN 14 DAYS OF NON-ACTIVITY WITHOUT BEING TEMPORARILY MULCHED AND/OR SEEDED.
8. 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.
9. 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.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND EXPENSES OF PROVIDING EROSION AND SEDIMENT CONTROL MEASURES.
11. 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.
12. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED UPON STABILIZATION OF DISTURBED AREAS.

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 LIMITS OF DISTURBANCE

LEGEND

--- LIMITS OF DISTURBANCE

— SF — SILT FENCE

[Pattern] AREA INLET PROTECTION

[CW] CONCRETE WASHOUT

[Pattern] CURB INLET PROTECTION

[Pattern] CONSTRUCTION ENTRANCE

[Pattern] TEMPORARY EROSION CONTROL BLANKET

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DATE: 10.19.2022
DRAWN BY: DMH
CHKD BY: ALM

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EROSION
CONTROL PLAN

C-103

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D

C

B

A

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. THE CONTRACTOR MUST FOLLOW THE REQUIREMENTS OF ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS, WHICH HAVE JURISDICTION OVER THIS PROJECT.
2. ALL PROPOSED CONTOUR LINES AND SPOT ELEVATIONS SHOWN ARE FINISH GROUND 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 DRAWING C-230 FOR PUBLIC STORMWATER PLAN & PROFILES.
9. SEE DRAWING C-231 FOR PRIVATE STORMWATER PROFILES.

GRADING & DRAINAGE KEYNOTES

- G1 (+/-) MATCH EXISTING ELEVATION. NOTIFY ENGINEER IF SIGNIFICANT DISCREPANCY EXISTS.
- G2 START TRANSITION FROM FULL-DEPTH CURB
- G3 FLUSH CURB
- G4 4" CURB
- G5 PUBLIC STORMWATER LINE. STORMWATER LINES NOT DENOTED WITH KEYNOTE G5 SHALL BE PRIVATE LINES. SEE DRAWING C-230.
- G6 CONCRETE STEPS
REF: 12 / C-500
- G7 LIMITS OF DISTURBANCE
- G8 FINISH GRADE AT DOORS SET 3" BELOW FINISH FLOOR ELEVATIONS TO ACCOUNT FOR THRESHOLDS
- G9 ELEVATION DENOTES FINISH GRADE AT PAD EDGE AND NOT TOP OF PAD.
- G10 1.5% CROSS SLOPE TO BE MAINTAINED THROUGH DRIVEWAY SIDEWALK, TYPICAL.
REF: 1 / C-502

STORMWATER PIPE TABLE		
NAME	3D LENGTH, SIZE, MATERIAL & SLOPE	
EX MH-1000	152.83 LF OF 36" HDPE @ 0.50%	
1000-1007	185.42 LF OF 36" HDPE @ 0.50%	
1000-1001	45.21 LF OF 12" HDPE @ 1.00%	
1001-1005	28.61 LF OF 12" HDPE @ 3.75%	
1001-1002	60.86 LF OF 12" HDPE @ 1.00%	
1002-ID2	22.23 LF OF 12" HDPE @ 3.00%	
1002-ID1	18.72 LF OF 12" HDPE @ 3.00%	
1002-1003	84.59 LF OF 12" HDPE @ 1.00%	
1003-1004	72.02 LF OF 12" HDPE @ 1.00%	
1005-FS4	11.57 LF OF 6" HDPE @ 3.00%	
1005-1009	35.83 LF OF 12" HDPE @ 3.00%	
1005-1006	13.75 LF OF 12" HDPE @ 2.00%	
1006-ID3	28.17 LF OF 12" HDPE @ 2.00%	
1007-1008	41.14 LF OF 24" HDPE @ 0.70%	
1009-RD	72.89 LF OF 6" HDPE @ 1.00%	

STORMWATER PIPE & STRUCTURE TABLE NOTES:

- * LENGTH OF PIPE AND SLOPE SHOWN EXCLUDE VERTICAL PORTION OF INLINE DRAIN.
- ** EXISTING INCOMING OR OUTGOING PIPES TO REMAIN ARE NOT SHOWN IN TABLE FOR CLARITY. CONTRACTOR TO PLUG AND GROUT EXISTING PENETRATIONS IN STRUCTURE NO LONGER REQUIRED PER CITY OF LEE'S SUMMIT STANDARDS.
- *** ALL STORMWATER PIPING SHALL BE HDPE (ADS N-12 OR APPROVED EQUAL), UNLESS NOTED OTHERWISE.

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 AISLES 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. UNOBSERVED 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 OF UP TO 1/2-INCH ARE PERMITTED ONLY IF THEY INCLUDE A 1/4-INCH BEVEL AT A SLOPE NOT STEEPER THAN 1:2. NO VERTICAL CHANGES OVER 1/4-INCH ARE PERMITTED.
 - 3.3. ACCESSIBLE RAMPS 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 RAMPS. LANDING MUST PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES, AND MUST NOT EXCEED 1:50 (2.0%) SLOPE IN ANY DIRECTION. RAMPS 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. ACCESSIBLE CURB RAMPS 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 RAMPS 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 LANDINGS 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-CONFORMANCE 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-CONFORMING 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.

STORMWATER STRUCTURE TABLE					
STRUCTURE NAME	GRATE / RIM ELEVATION	PIPES IN	PIPES OUT	CL NORTHING & EASTING	NOTES
1000.MH	909.53	1000-1001, 12" INV IN = 900.63 1000-1007, 30" INV IN = 900.33	EX MH-1000, 36" INV OUT = 900.13	N: 1032977.32 E: 2830362.52	STANDARD PRECAST MANHOLE REF: 3-4 / C-530 & 3 / C-540
1001.MH	908.94	1001-1002, 12" INV IN = 901.28 1001-1005, 12" INV IN = 901.58	1000-1001, 12" INV OUT = 901.08	N: 1032931.67 E: 2830342.87	STANDARD PRECAST MANHOLE REF: 3-4 / C-530 & 3 / C-540
1002.CI	910.75	1002-1003, 12" INV IN = 902.39	1001-1002, 12" INV OUT = 901.89	N: 1032868.61 E: 2830332.81	2"X3" CURB INLET REF: 1-2 / C-531 & 2 / C-532
1003.CI	908.71	1003-1004, 12" INV IN = 903.74	1002-1003, 12" INV OUT = 903.24	N: 1032845.41 E: 2830249.41	2"X3" CURB INLET REF: 1-2 / C-531 & 2 / C-532
1004.AI	907.39		1003-1004, 12" INV OUT = 904.46	N: 1032866.83 E: 2830178.44	STANDARD DOUBLE GRATE INLET REF: 4 / C-532
1005.AI	908.15	1005-1006, 12" INV IN = 903.15 1005-1009, 12" INV IN = 903.25	1001-1005, 12" INV OUT = 902.65	N: 1032940.69 E: 2830312.07	STANDARD DOUBLE GRATE INLET REF: 4 / C-532
1006.AI	908.15	1006-ID3, 12" INV IN = 903.62	1005-1006, 12" INV OUT = 903.42	N: 1032925.34 E: 2830307.57	STANDARD DOUBLE GRATE INLET REF: 4 / C-532
1007.CI	905.98	1007-1008, 24" INV IN = 901.56	1000-1007, 30" INV OUT = 901.26	N: 1033029.98 E: 2830180.60	STANDARD CURB INLET REF: 1, 3, & 4 / C-530
1008.JB	906.48	1007-1008, 24" INV OUT = 901.85		N: 1032984.96 E: 2830168.78	CONVERT CI TO JUNCTION BOX** REF: 2-5 / C-530
1009.AI	908.50	1009-RD, 6" INV IN = 904.82	1005-1009, 12" INV OUT = 904.32	N: 1032977.32 E: 2830320.93	NYLOPLAST 18" DRAIN BASIN AND STANDARD GRATE REF: 1 & 4 / C-531 AND 5 / C-532
EX MH	908.59	EX MH-1000, 36" INV IN = 899.37		N: 1032970.53 E: 2830516.95	EXISTING MANHOLE**

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FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

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PROJECT NO: 18225R21001
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CHKD BY: ALM

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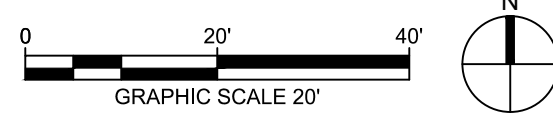
GRADING & DRAINAGE PLAN

C-104

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LEGEND

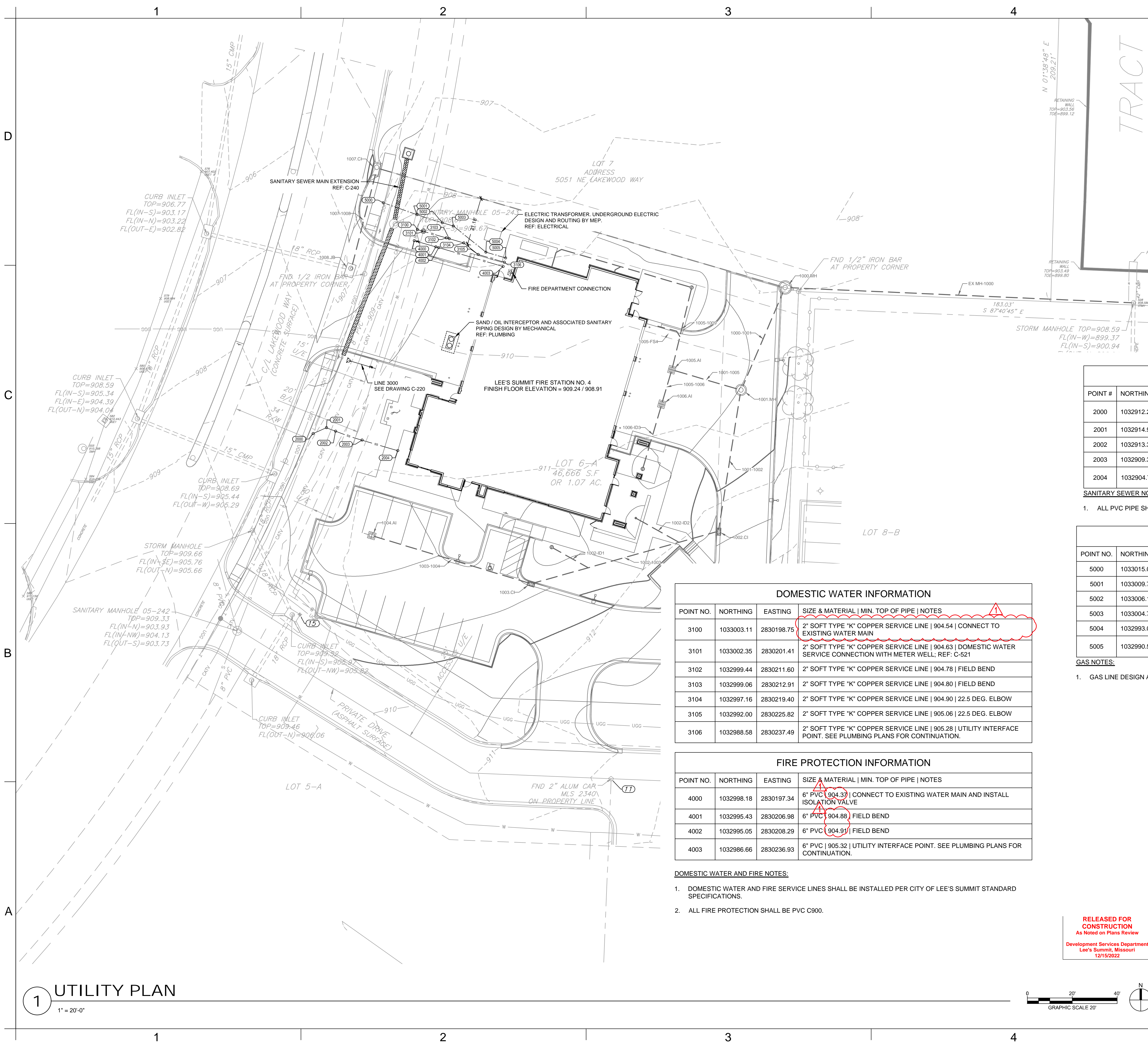
1288.00	SPOT ELEVATION	--- 430 ---	EXISTING CONTOUR
MEE	MATCH EXISTING ELEVATION	→	FLOWLINE ARROW
1288.00 1288.45	TOP OF CURB ELEVATION FLOWLINE ELEVATION	---	PROPOSED STORM SEWER
1288.00 TW 1278.00 BW	TOP OF RETAINING WALL BOTTOM OF RETAINING WALL	▨	PROPOSED CURB INLET
430	PROPOSED MAJOR CONTOUR	○	PROPOSED STORMWATER MANHOLE
429	PROPOSED MINOR CONTOUR	⊕	PROPOSED AREA INLET



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GRADING & DRAINAGE PLAN

1" = 20'-0"



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.

1. INSTALLATION, BEDDING, & TESTING OF UTILITY INSTALLATIONS SHALL BE AS PER CITY OF LEE'S SUMMIT, MO STANDARD SPECIFICATIONS AND STANDARD SPECIAL PROVISIONS.
2. 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.
3. PROTECT ALL COMPONENTS DURING DEMOLITION / CONSTRUCTION PROCESS. MAINTAIN BMP'S THROUGHOUT THE DURATION OF CONSTRUCTION.
4. STUB ALL CONNECTIONS TO WITHIN 5' OF THE BUILDING TO PROVIDE CONNECTION INTO THE BUILDING BY MECHANICAL PLUMBING CONTRACTOR.
5. CONTRACTOR TO PROVIDE DETAILED AS-BUILT DRAWINGS TO OWNER, ENGINEER, AND CITY OF LEE'S SUMMIT, MO UPON COMPLETION OF ALL UTILITIES.
8. UTILITY TRENCH BACKFILL SHALL BE PER PROJECT SPECIFICATIONS.
9. UTILITY PIPE LENGTHS ARE PROVIDED FOR INFORMATION ONLY. CONTRACTOR TO VERIFY ACTUAL LENGTHS OF PIPE REQUIRED PRIOR TO BIDDING & INSTALLING UTILITIES.
10. UTILITY CONTRACTOR TO COORDINATE BUILDING CONNECTION POINTS WITH PLUMBING PLAN AND BUILDING CONTRACTOR.
11. CONTRACTOR TO ADJUST EXISTING WATER VALVES TO PROPOSED GRADE, AS REQUIRED.
12. 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	1032912.26	2830152.34	4" PVC N/A 904.29 TIE INTO EXISTING 8" SANITARY SEWER LINE; REF: C-540	
2001	1032914.92	2830158.25	4" PVC 9.43% 904.89 45 DEG ELBOW	
2002	1032913.35	2830162.33	4" PVC 1.00% 904.93 FIELD BEND	
2003	1032909.37	2830174.09	4" PVC 1.00% 905.06 FIELD BEND	
2004	1032904.71	2830190.01	4" PVC 1.00% 905.22 CLEANOUT ; UTILITY INTERFACE POINT. SEE PLUMBING PLANS FOR CONTINUATION.	

SANITARY SEWER NOTES:

1. ALL PVC PIPE SHALL BE SDR 26.

GAS INFORMATION				
POINT NO.	NORTHING	EASTING	FINISHED GRADE NOTES	
5000	1033015.08	2830183.55	906.68 CONNECTION TO EXISTING GAS SERVICE	
5001	1033009.78	2830198.53	907.74 FIELD BEND	
5002	1033006.16	2830209.84	908.15 FIELD BEND	
5003	1033004.74	2830214.77	908.22 22.5 DEG ELBOW	
5004	1032993.07	2830229.27	908.59 22.5 DEG ELBOW	
5005	1032990.50	2830238.05	908.69 UTILITY INTERFACE POINT. SEE PLUMBING PLANS FOR CONTINUATION.	

GAS NOTES:

1. GAS LINE DESIGN AND INSTALLATION PER SERVICE PROVIDER.

DOMESTIC WATER INFORMATION				
POINT NO.	NORTHING	EASTING	SIZE & MATERIAL MIN. TOP OF PIPE NOTES	
3100	1033003.11	2830198.75	2" SOFT TYPE "K" COPPER SERVICE LINE 904.54 CONNECT TO EXISTING WATER MAIN	
3101	1033002.35	2830201.41	2" SOFT TYPE "K" COPPER SERVICE LINE 904.63 DOMESTIC WATER SERVICE CONNECTION WITH METER WELL; REF: C-521	
3102	1032999.44	2830211.60	2" SOFT TYPE "K" COPPER SERVICE LINE 904.78 FIELD BEND	
3103	1032999.06	2830212.91	2" SOFT TYPE "K" COPPER SERVICE LINE 904.80 FIELD BEND	
3104	1032997.16	2830219.40	2" SOFT TYPE "K" COPPER SERVICE LINE 904.90 22.5 DEG. ELBOW	
3105	1032992.00	2830225.82	2" SOFT TYPE "K" COPPER SERVICE LINE 905.06 22.5 DEG. ELBOW	
3106	1032988.58	2830237.49	2" SOFT TYPE "K" COPPER SERVICE LINE 905.28 UTILITY INTERFACE POINT. SEE PLUMBING PLANS FOR CONTINUATION.	

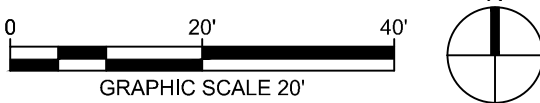
FIRE PROTECTION INFORMATION				
POINT NO.	NORTHING	EASTING	SIZE & MATERIAL MIN. TOP OF PIPE NOTES	
4000	1032998.18	2830197.34	6" PVC 904.37 CONNECT TO EXISTING WATER MAIN AND INSTALL ISOLATION VALVE	
4001	1032995.43	2830206.98	6" PVC 904.88 FIELD BEND	
4002	1032995.05	2830208.29	6" PVC 904.91 FIELD BEND	
4003	1032986.66	2830236.93	6" PVC 905.32 UTILITY INTERFACE POINT. SEE PLUMBING PLANS FOR CONTINUATION.	

DOMESTIC WATER AND FIRE NOTES:

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

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

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1 UTILITY PLAN
1" = 20'-0"

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FIRE STATION #4
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1	ASI 01	11.16.2022

DERICK M. HOLMES - CIVIL ENGINEER
MOR# PE-2022005196

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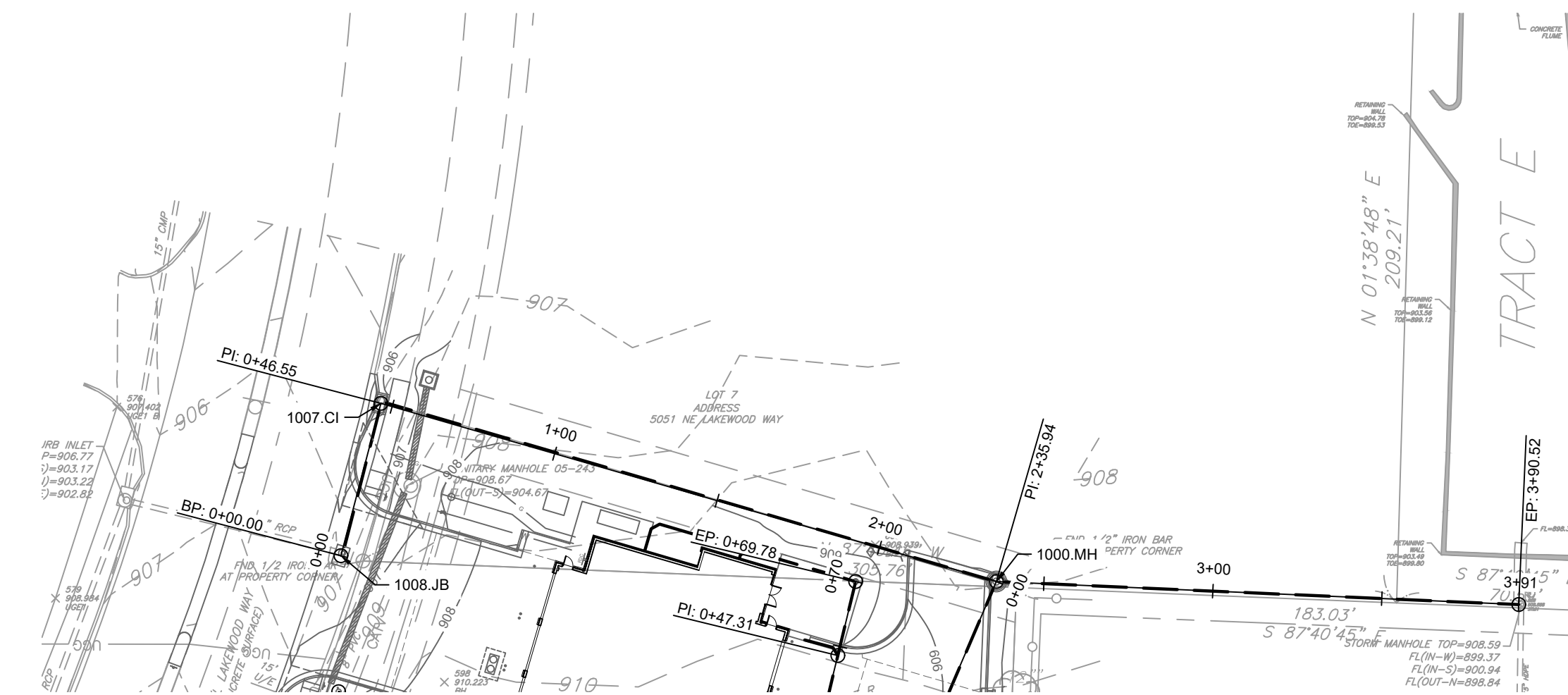
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UTILITY PLAN

C-105

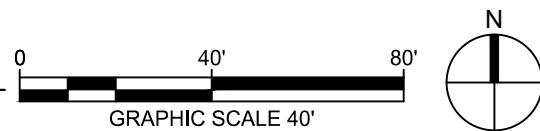
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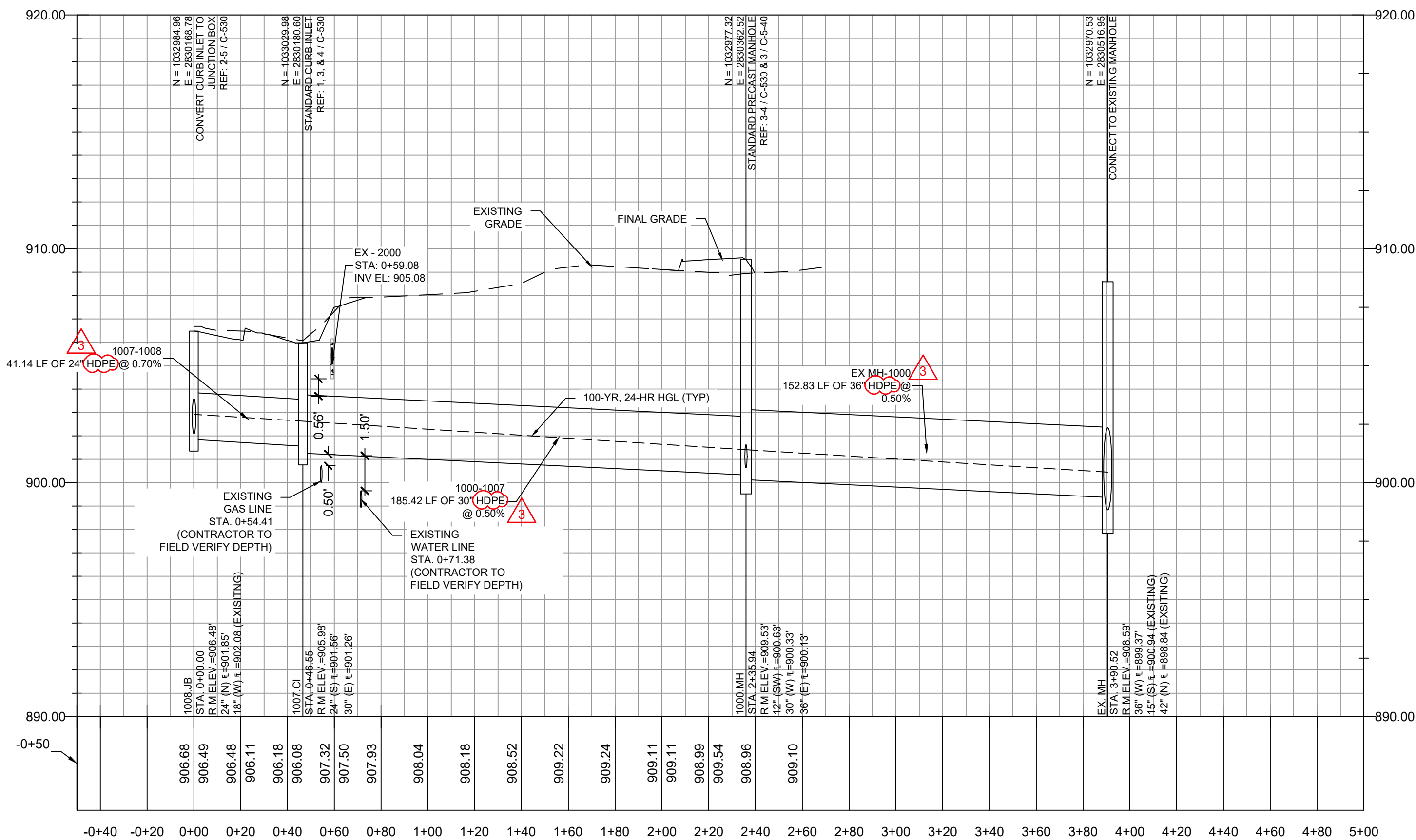


1 EX MH - 1008.JB PLAN

SCALE: 1"=40'



C



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Lee's Summit, Missouri
12/16/2022

B

2 EX MH - 1008.JB PROFILE

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

A

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)
EX-MH-1000	1000.MH	EX-MH	152.83	900.13	899.37	0.50	36	0.012	0.50	0.90	14.11	0 12:05	6.17
1000-1007	1007.CI	1000.MH	185.42	901.26	900.33	0.50	30	0.012	0.50	0.80	12.23	0 12:05	6.05
1007-1008	1008.JB	1007.CI	41.14	901.85	901.56	0.70	24	0.012	0.50	0.80	11.50	0 12:00	6.74

100-YR, 24-HR STORM EVENT	
STRUCTURE NAME	MAX HGL ELEVATION (FT)
EX. MH	900.45
1000.MH	901.41
1007.CI	902.63
1008.JB	902.92

GENERAL 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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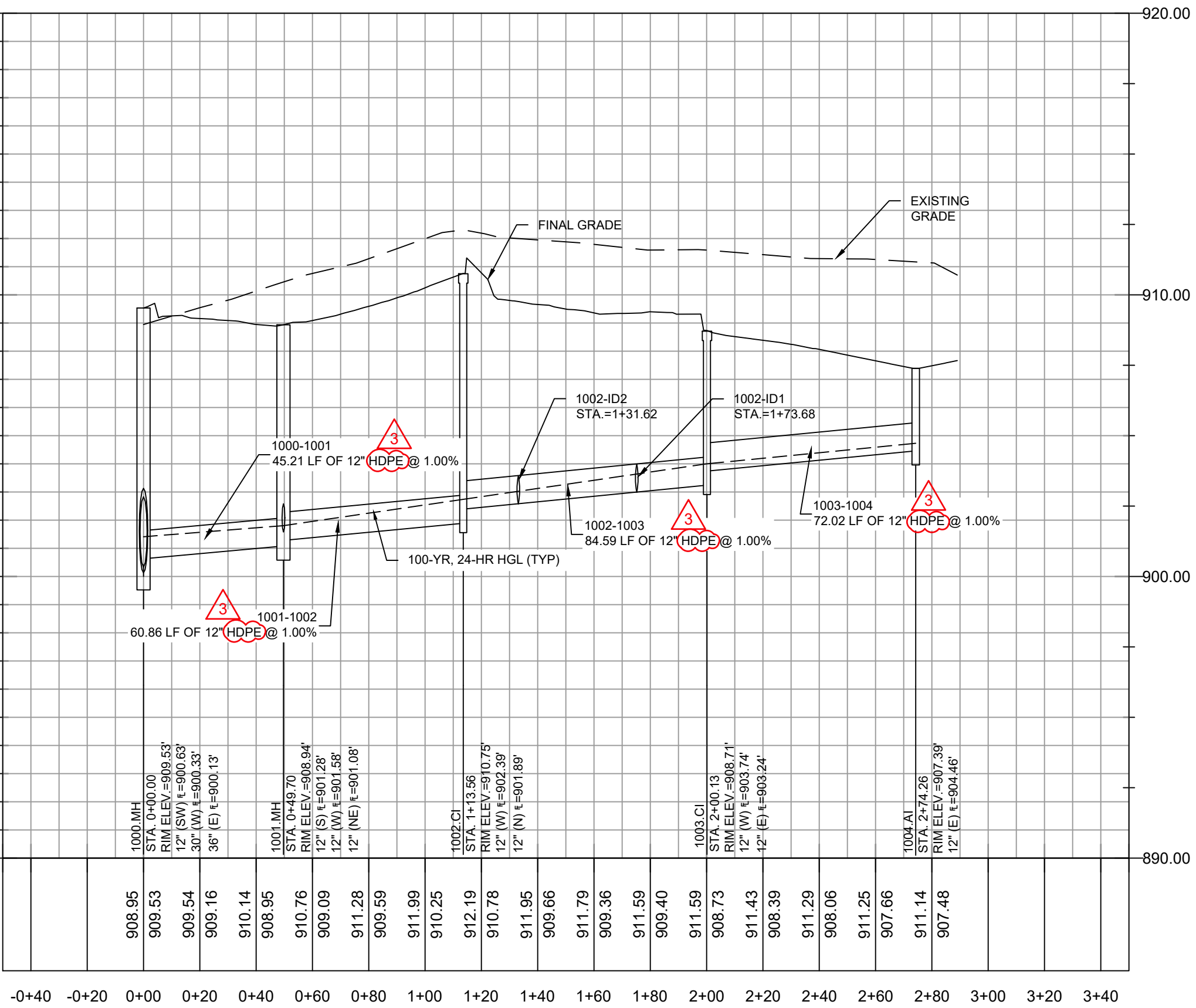
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PROFILES

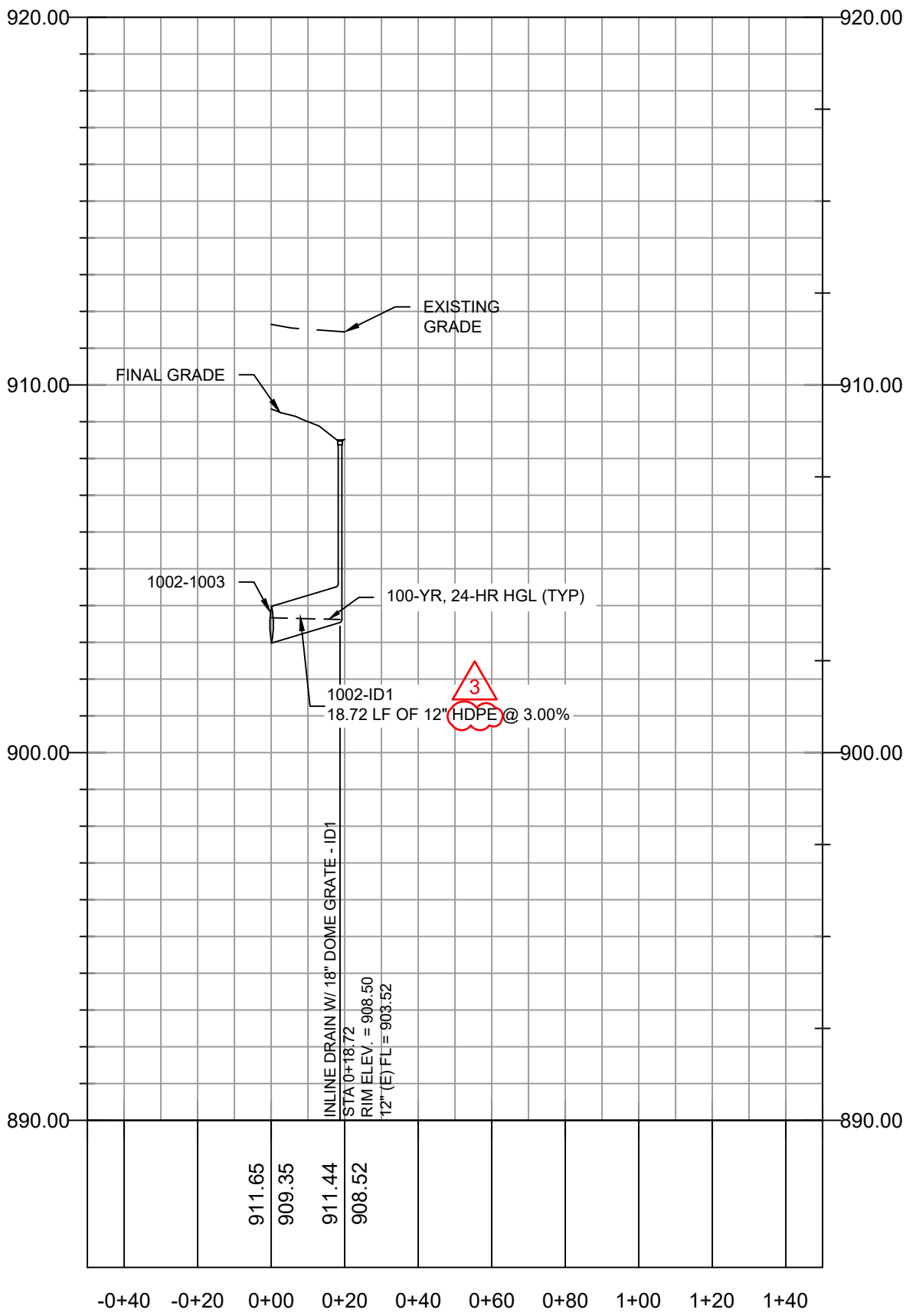
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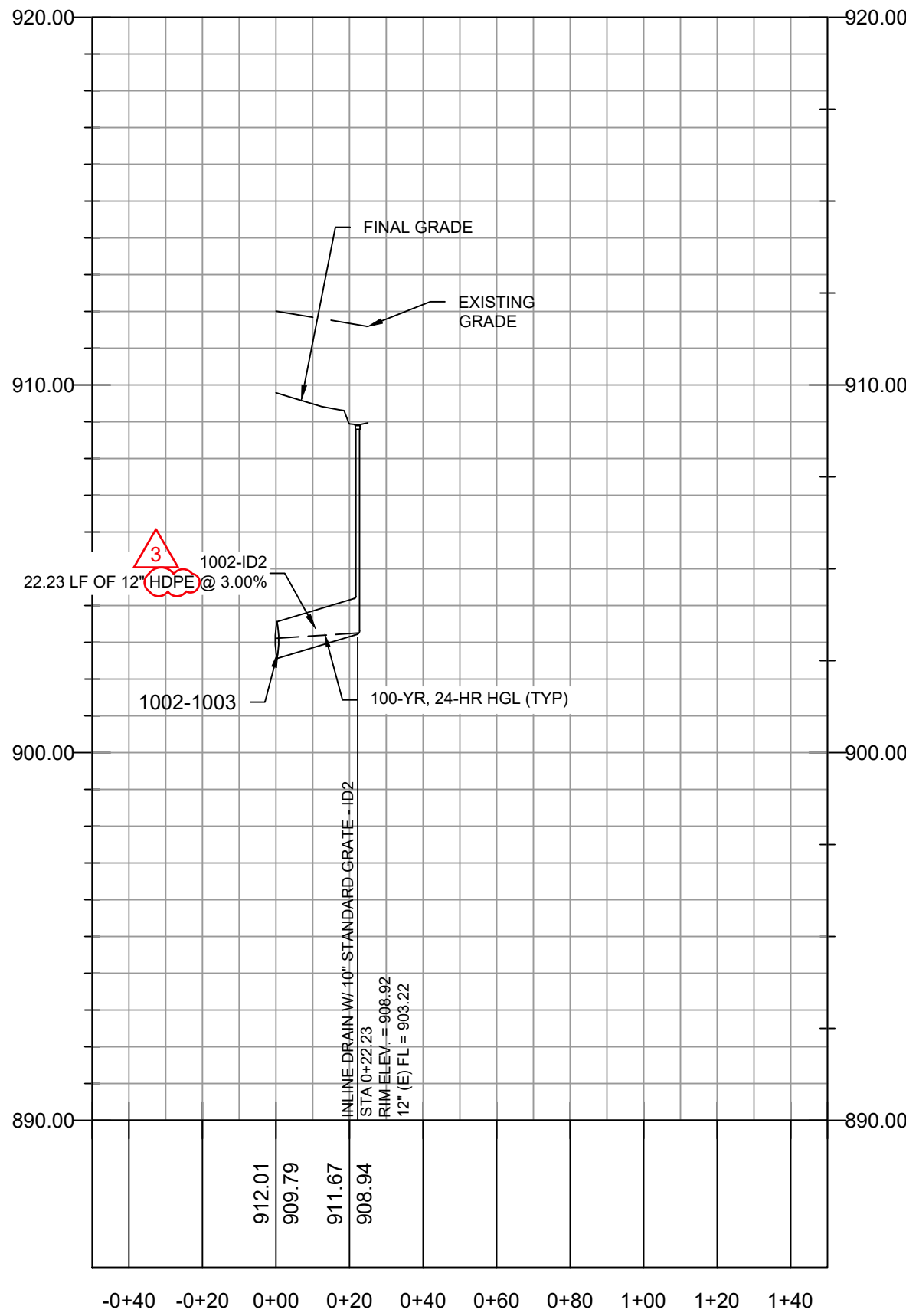
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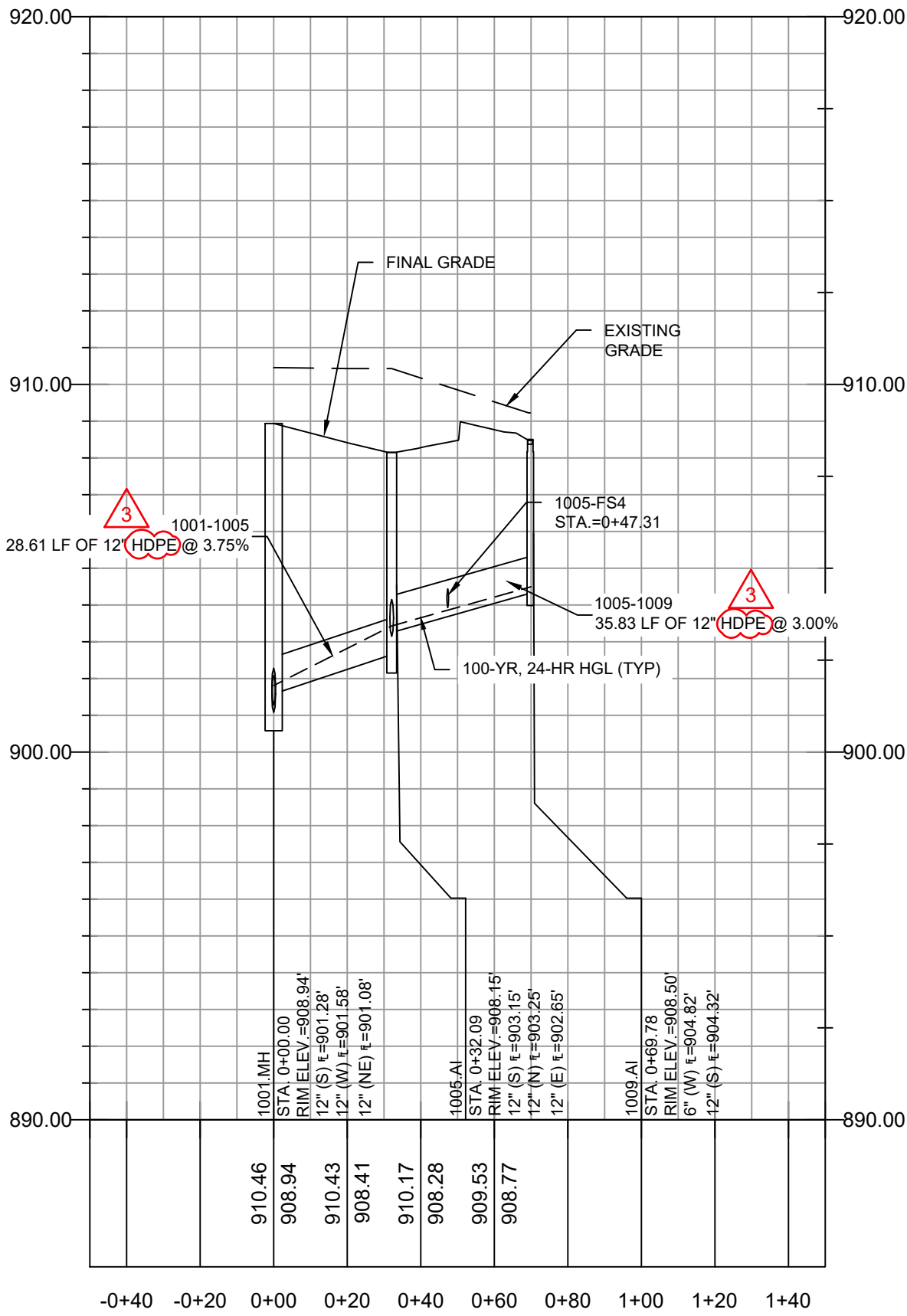
1 1000.MH - 10004.AI STORMWATER PROFILE
SCALE: HORIZONTAL 1"=40' SCALE: VERTICAL 1"=4'



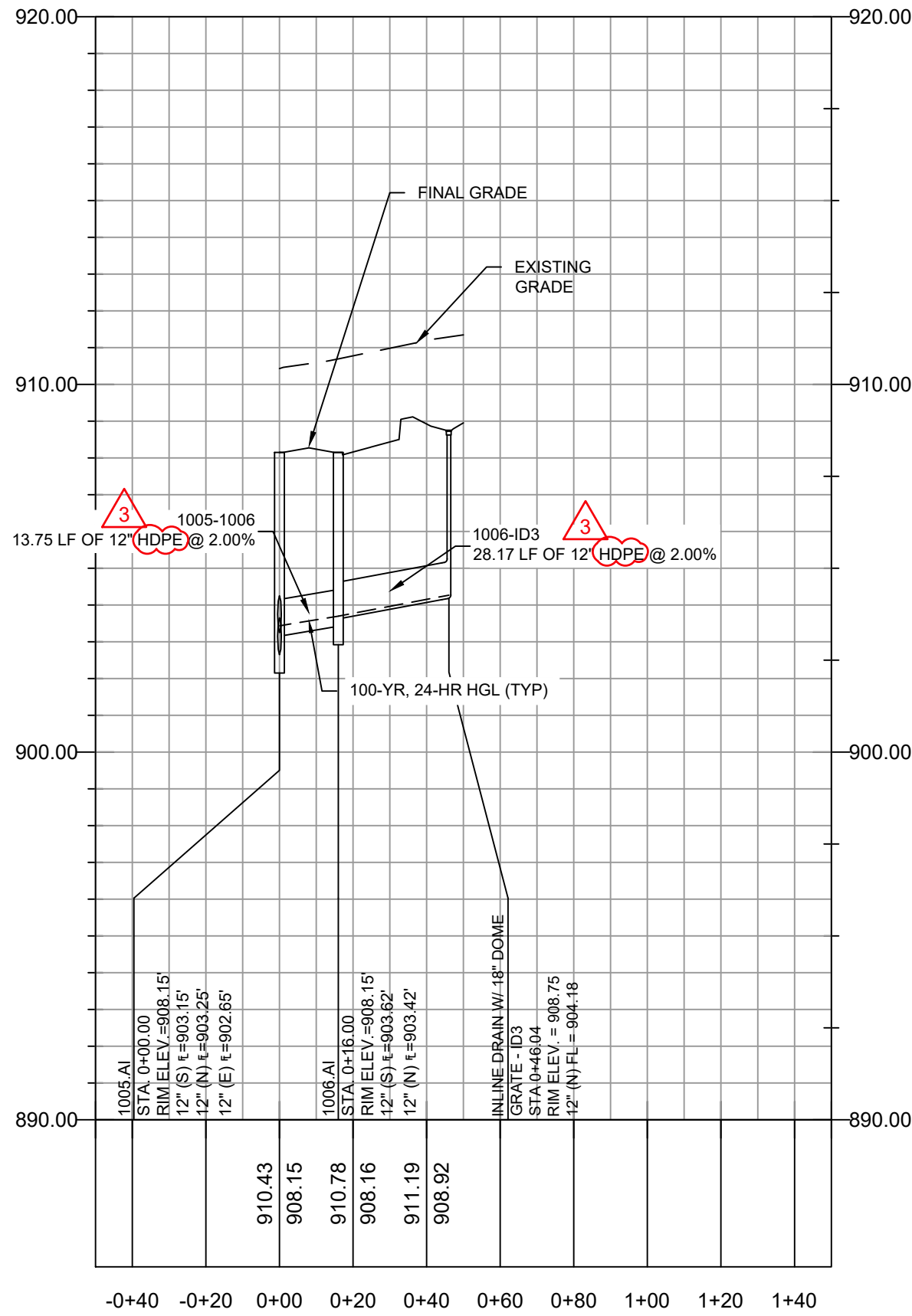
2 PIPE 1002-1003 - INLINE DRAIN 1
SCALE: HORIZONTAL 1"=40' SCALE: VERTICAL 1"=4'



3 PIPE 1002-1003 - INLINE DRAIN 2
SCALE: HORIZONTAL 1"=40' SCALE: VERTICAL 1"=4'



4 1001.MH - 1009.AI
SCALE: HORIZONTAL 1"=40' SCALE: VERTICAL 1"=4'



5 1005.AI - INLINE DRAIN 3
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)
1000-1001	1001.MH	1000.MH	45.21	901.08	900.63	1.00	12	0.012	0.50	0.80	1.89	0 12:05	4.88	0.15	3.85
1001-1002	1001.MH	1001.MH	60.86	901.89	901.28	1.00	12	0.012	0.50	0.90	1.03	0 12:05	4.18	0.24	3.86
1001-1005	1005.AI	1001.MH	28.61	902.65	901.58	3.75	12	0.012	0.50	0.90	0.86	0 12:05	6.34	0.08	7.46
1002-1003	1003.CI	1002.CI	84.59	903.24	902.39	1.00	12	0.012	0.50	0.70	1.00	0 12:05	4.12	0.17	3.91
1002-ID1	ID1	WYE	18.72	903.52	902.98	3.00	12	0.012	0.50	0.70	0.09	0 12:05	2.95	0.11	6.56
1002-ID2	ID2	WYE	22.23	903.22	902.56	3.00	12	0.012	0.50	0.70	0.01	0 10:15	1.69	0.22	6.85
1003-1004	1004.AI	1003.CI	72.02	904.46	903.74	1.00	12	0.012	0.50	0.60	0.61	0 12:05	3.60	0.33	3.86
1005-1006	1006.AI	1005.AI	13.75	903.42	903.15	2.00	12	0.012	0.50	0.80	0.25	0 12:05	3.52	0.07	5.41
1005-1009	1009.AI	1005.AI	35.83	904.32	903.25	3.00	12	0.012	0.50	0.80	0.47	0 11:40	4.92	0.12	6.67
1006-ID3	ID3	1006.AI	28.17	904.18	903.62	2.00	12	0.012	0.50	0.50	0.08	0 12:05	2.50	0.19	5.44

100-YR, 24-HR STORM EVENT	
STRUCTURE NAME	MAX HGL ELEVATION (FT)
1001.MH	901.81
1002.CI	902.74
1003.CI	904.01
1004.AI	904.73
1005.AI	903.43
1006.AI	903.70
1009.AI	904.50

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FIRE STATION #4
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need shall not be considered prepared by the engineer and
this engineer assumes full responsibility for the design and
each plan, drawing, or document not including this note.

PROJECT NO: 18225R21001
DATE: 10.19.2022
DRAWN BY: HFL
CHKD BY: DMH

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PROFILES**

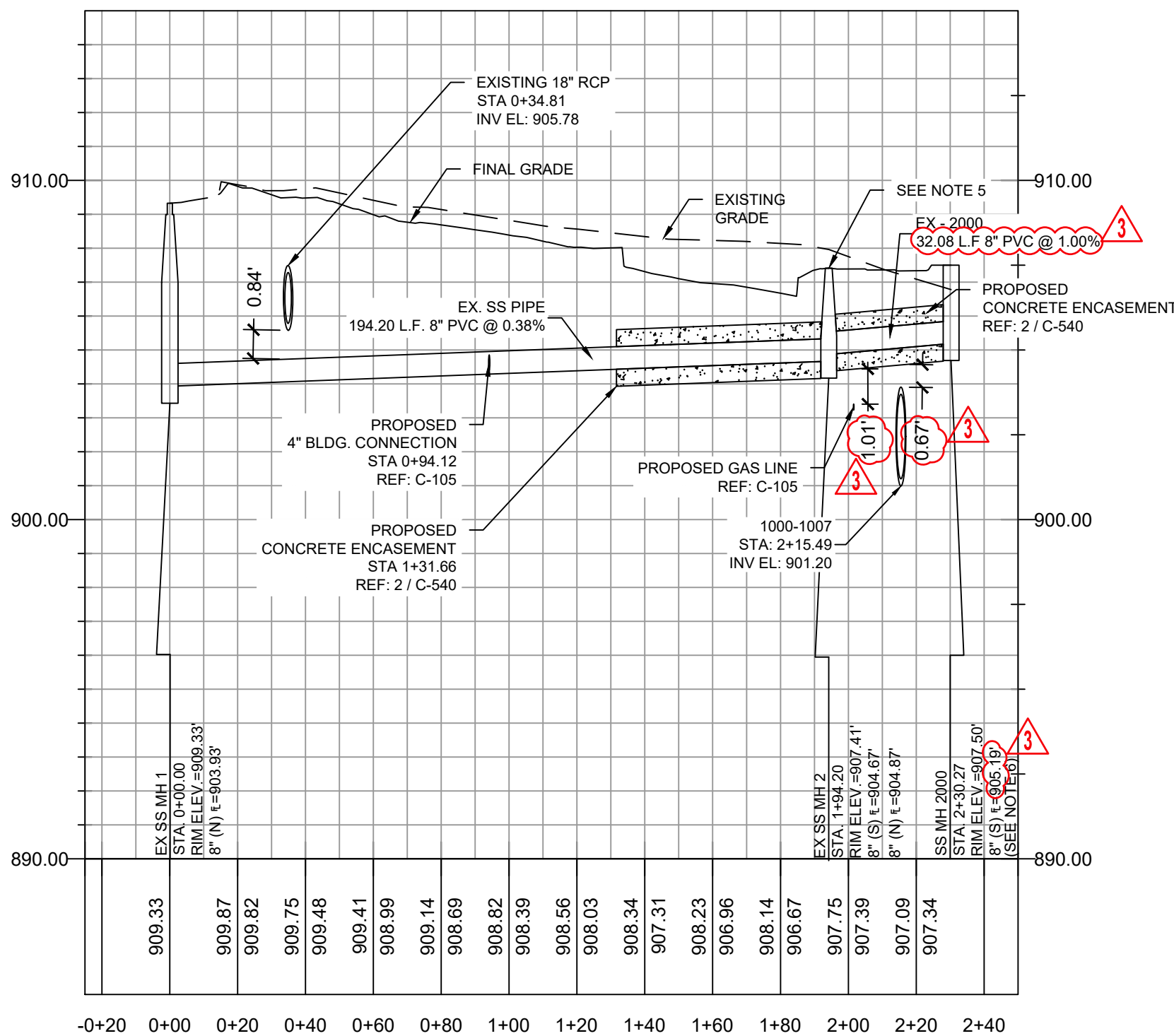
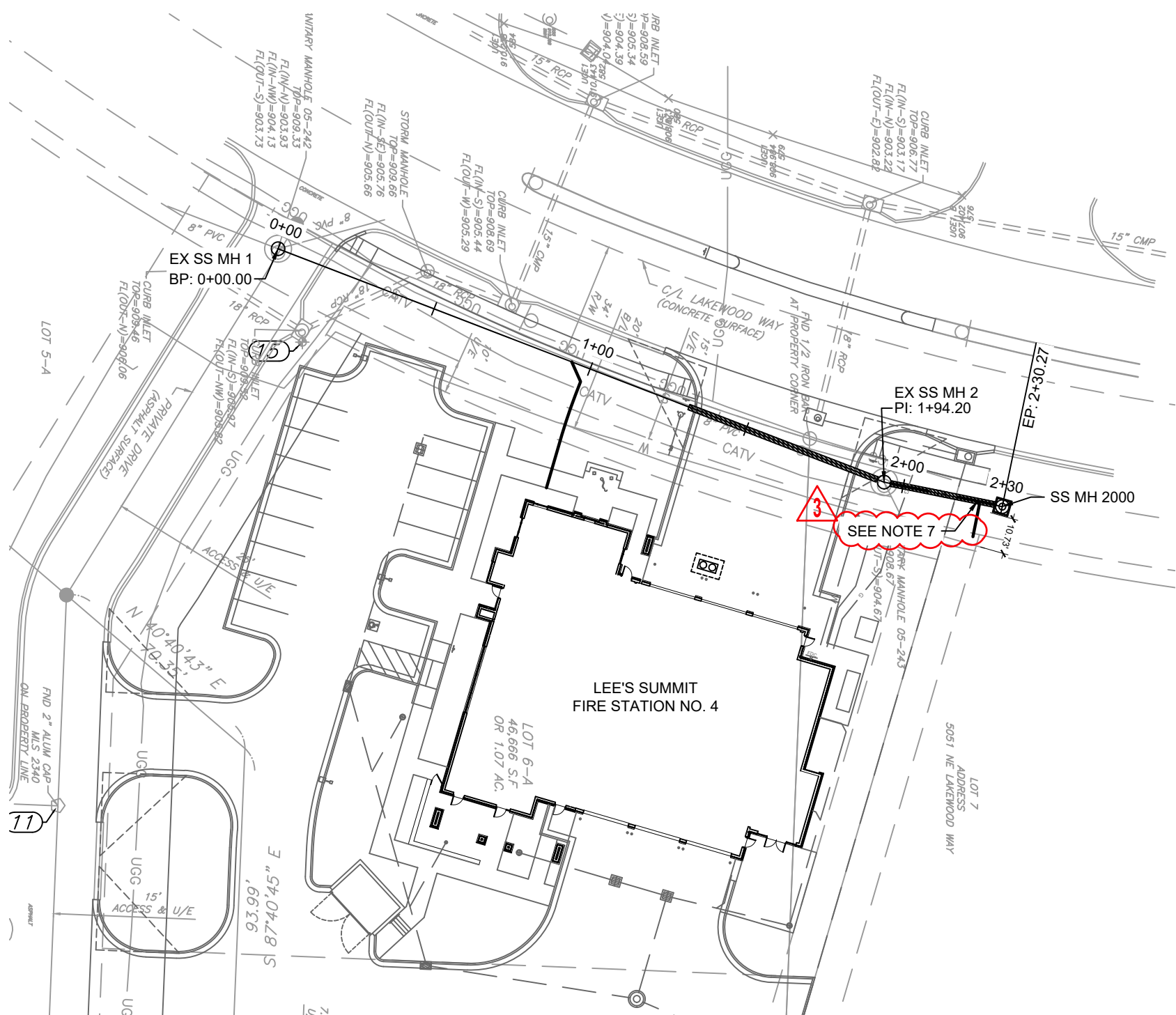
C-231

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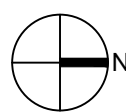
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B

A



1 SANITARY SEWER MAIN PLAN & PROFILE
SCALE: HORIZONTAL 1"= 40'
SCALE: VERTICAL 1"= 4'



GENERAL NOTES:

- CONSTRUCTION OF SANITARY SEWER 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.
- PROTECT ALL COMPONENTS DURING DEMOLITION / CONSTRUCTION PROCESS. MAINTAIN BMP'S THROUGHOUT THE DURATION OF CONSTRUCTION.
- CONTRACTOR TO PROVIDE DETAILED AS-BUILT DRAWINGS TO OWNER, ENGINEER, AND CITY OF LEE'S SUMMIT, MO UPON COMPLETION OF ALL UTILITIES.
- ADJUST EXISTING MH RIM ELEVATION TO NEW PROPOSED GRADE.
- INSTALL STANDARD SHALLOW PRECAST MANHOLE.
REF: 4 / C-540
- INSTALL 6" STUB TO SERVE LOT 7 PER THE FOLLOWING:
 - MAIN STATION: 2+22.87
 - 8" MAIN INVERT ELEVATION: 905.14
 - MINIMUM STUB SLOPE: 2%
 - MINIMUM STUB LENGTH: 10.0 FEET
 - MINIMUM HORIZONTAL DISTANCES:
 - NEW WYE SHALL BE NO LESS THAN 4.0 FEET FROM THE MANHOLE AS MEASURED FROM THE OUTSIDE WALL OF THE MANHOLE TO THE FIRST PART OF THE WYE.
 - NEW WYE SHALL BE NO LESS THAN 5.0 FEET FROM THE PROPOSED PUBLIC STORM SEWER, MEASURED FROM OUTSIDE WALL TO OUTSIDE WALL.

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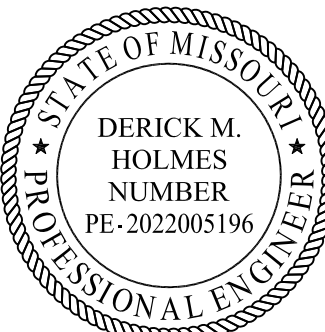
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FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100% CONSTRUCTION DOCUMENT DRAWINGS

#	Description	Date
1	ASI 01	11.16.2022
3	ASI 03	12.08.2022



12/09/2022

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MO# PE-2022005196

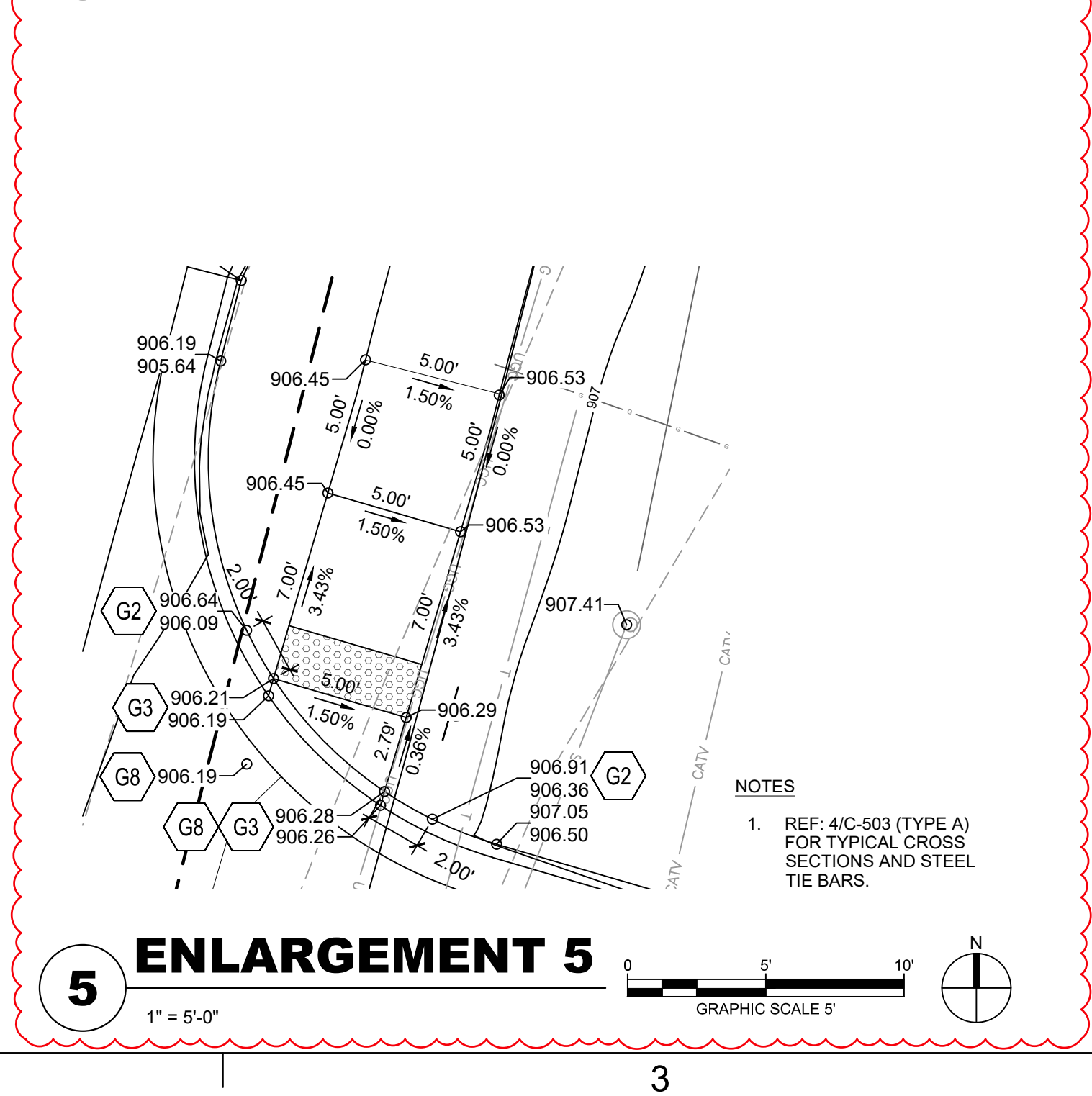
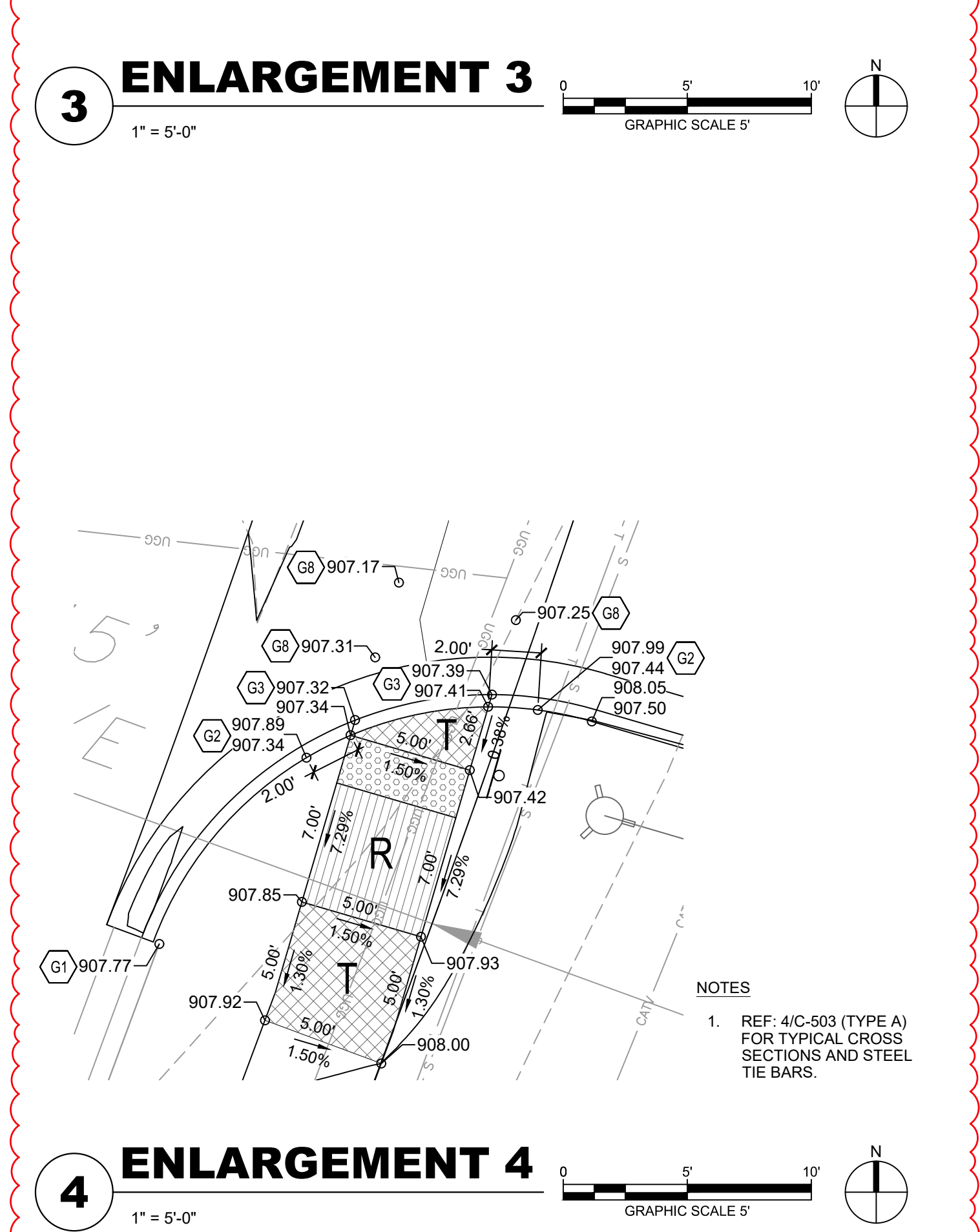
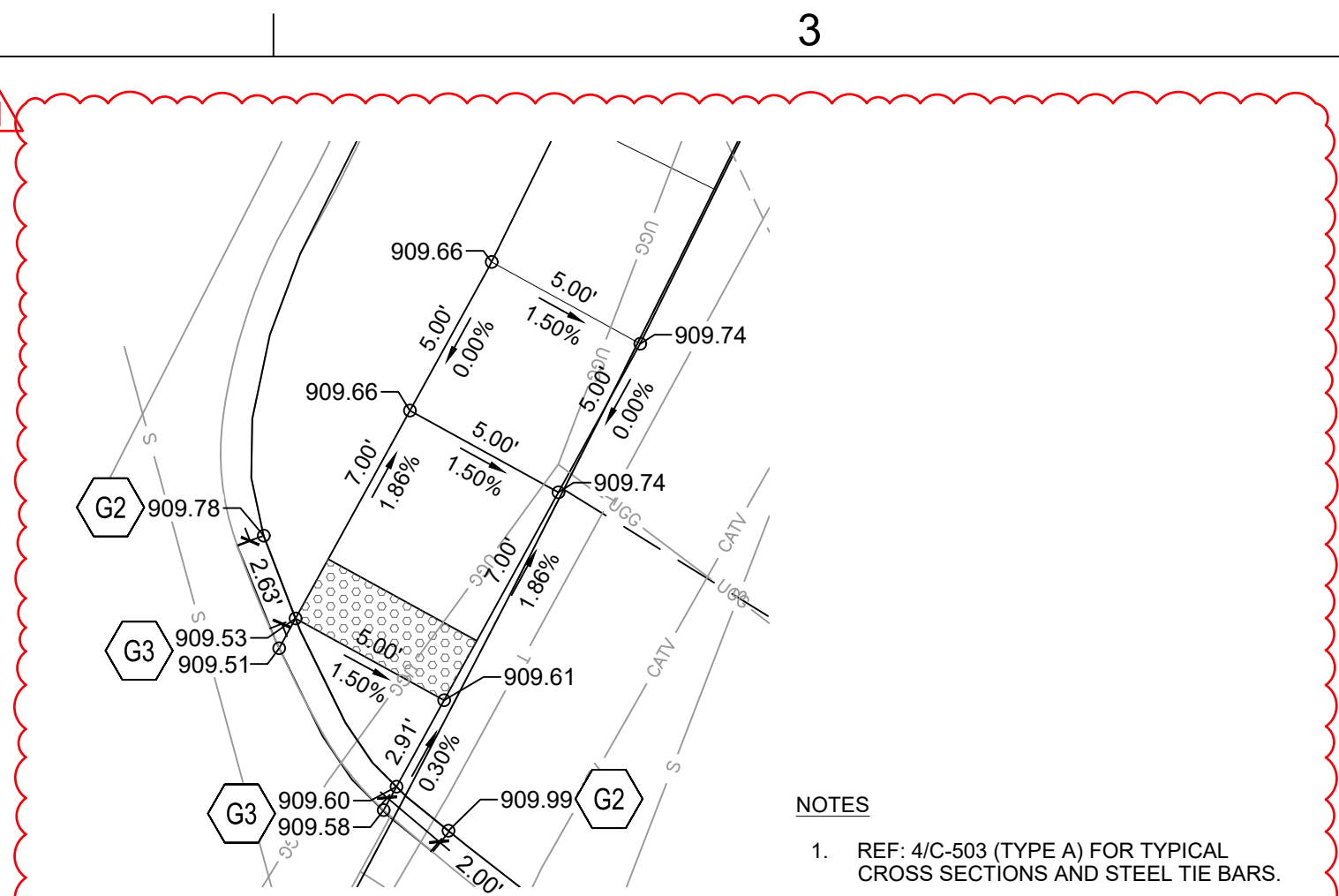
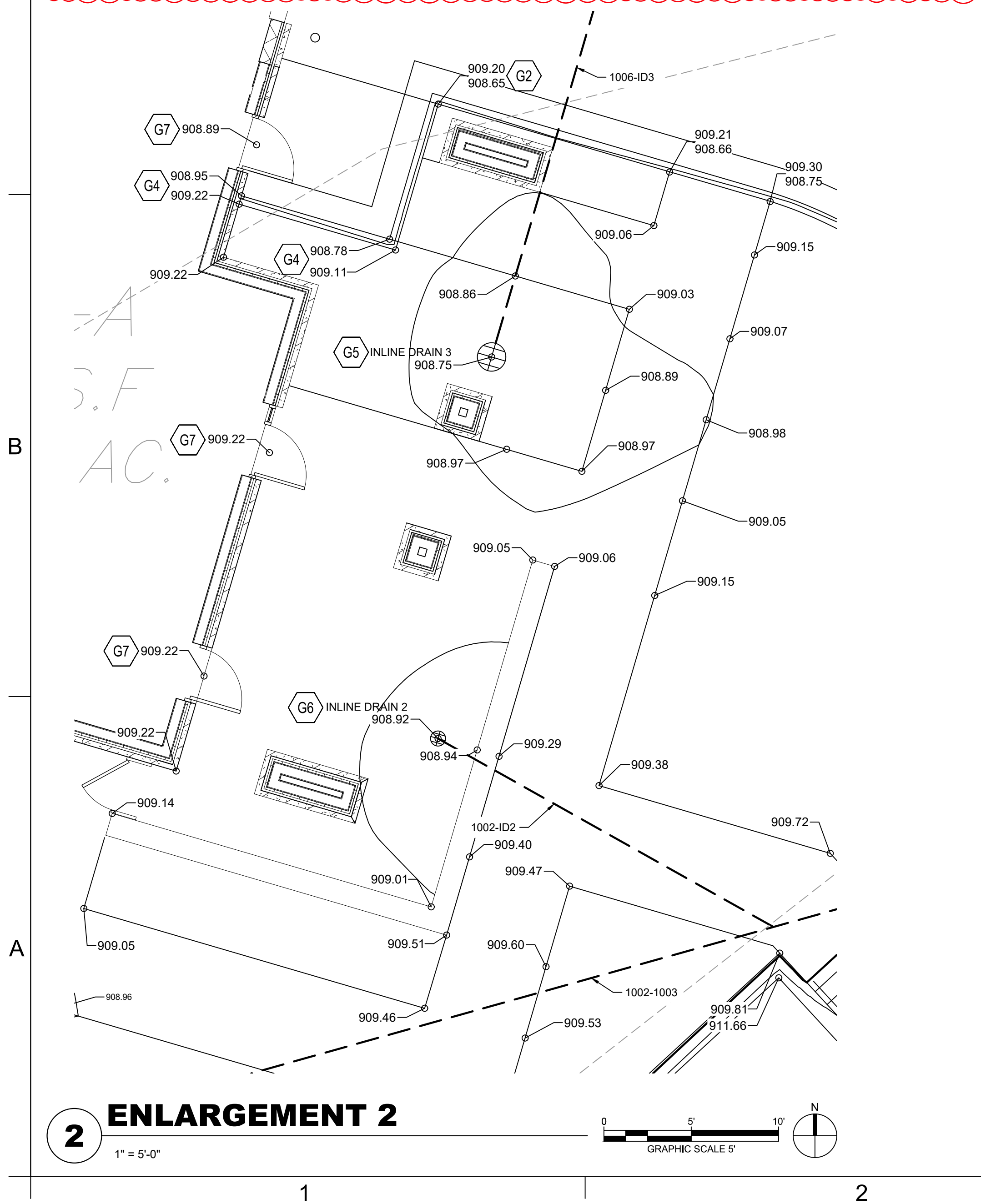
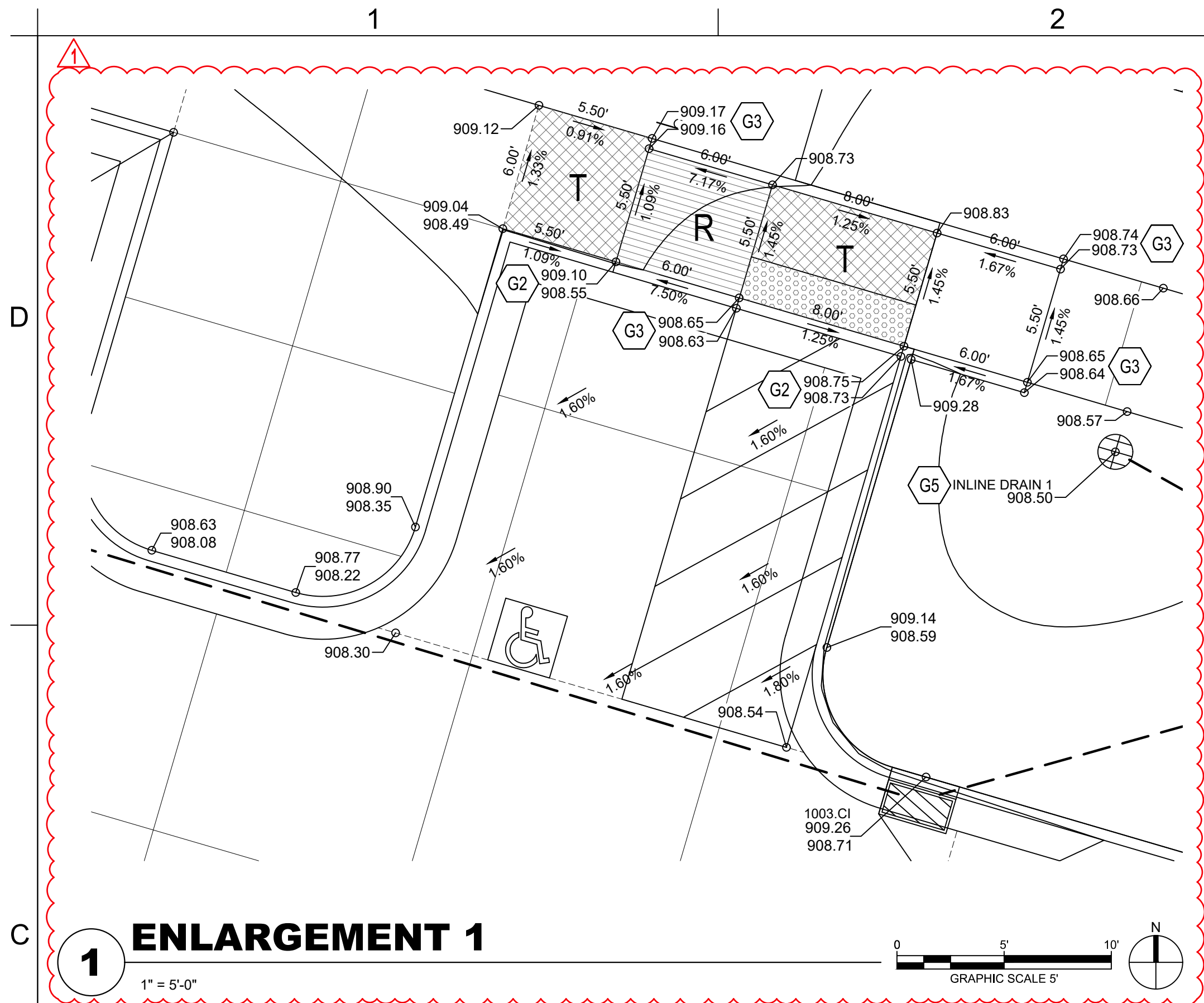
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SEWER PLAN &
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C-240



GENERAL GRADING & DRAINAGE NOTES:

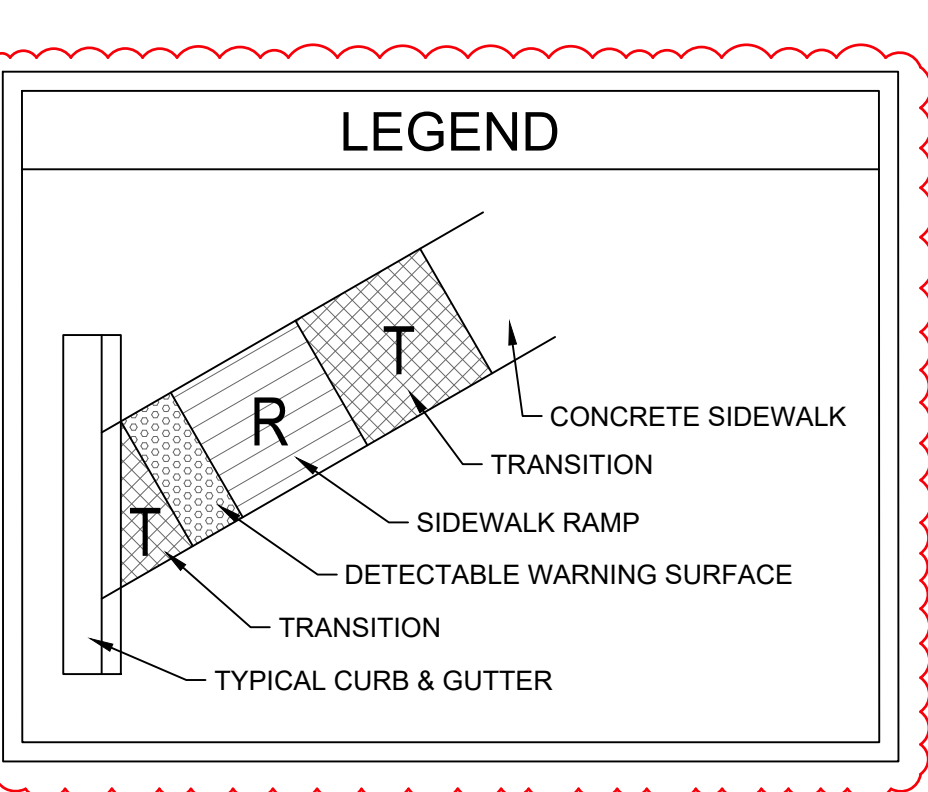
1. SEE DRAWING C-104 FOR GENERAL GRADING & DRAINAGE NOTES APPLICABLE TO THIS DRAWING.

ADA NOTES:

1. SEE DRAWING C-104 FOR GENERAL ADA NOTES APPLICABLE TO THIS DRAWING.

GRADING & DRAINAGE KEYNOTES

- G1 (+/-) MATCH EXISTING ELEVATION. NOTIFY ENGINEER IF SIGNIFICANT DISCREPANCY EXISTS.
- G2 START TRANSITION FROM FULL-DEPTH CURB
- G3 FLUSH CURB
- G4 4" CURB
- G5 INLINE DRAIN WITH 18" DOME GRATE.
REF: C-231 & C-532
- G6 INLINE DRAIN WITH 10" STANDARD GRATE.
REF: C-231, C-531, AND C-532
- G7 FINISH GRADE AT DOORS SET 1/2" BELOW FINISH FLOOR ELEVATIONS TO ACCOUNT FOR THRESHOLDS
- G8 1.5% CROSS SLOPE TO BE MAINTAINED THROUGH DRIVEWAY SIDEWALK, TYPICAL.
REF: 1 / C-502



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CITY OF LEE'S SUMMIT

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100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
1	ASI 01	11.16.2022

STATE OF MISSOURI

DERICK M. HOLMES
NUMBER
PE-2022005196

11/16/2022

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MD# PE-2022005196

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PROJECT NO: 18225R21001

DATE: 10.19.2022

DRAWN BY: JAC

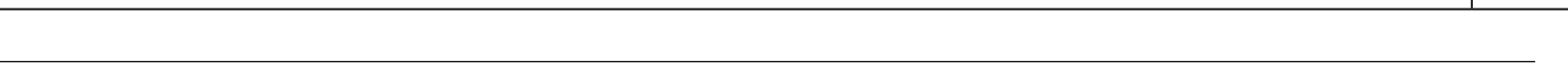
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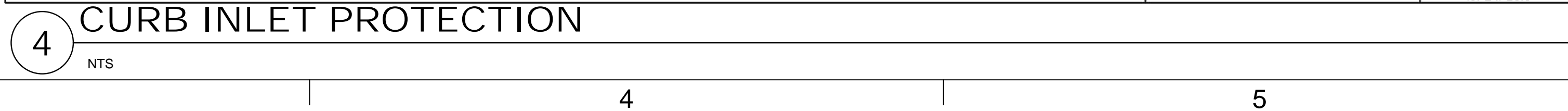
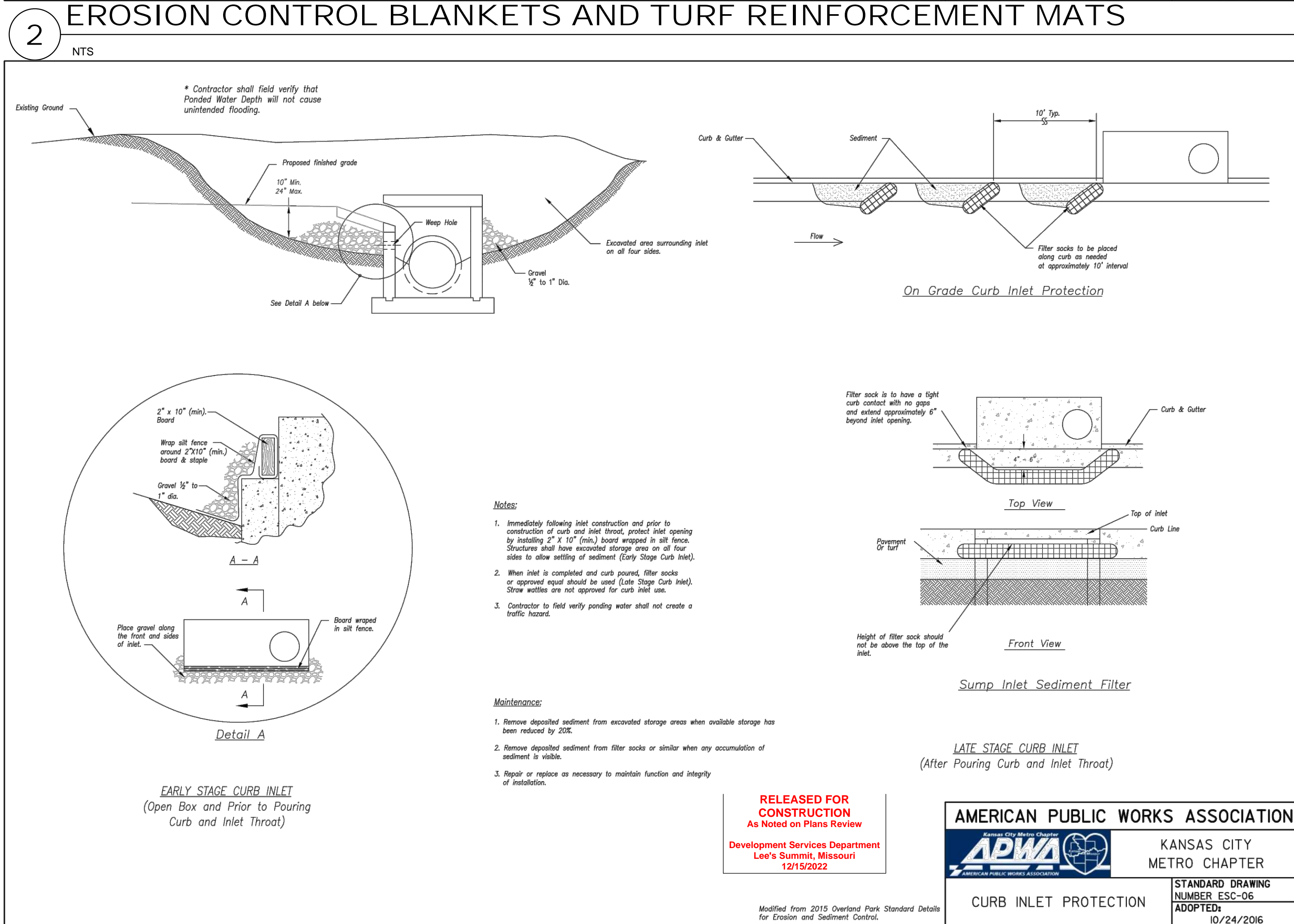
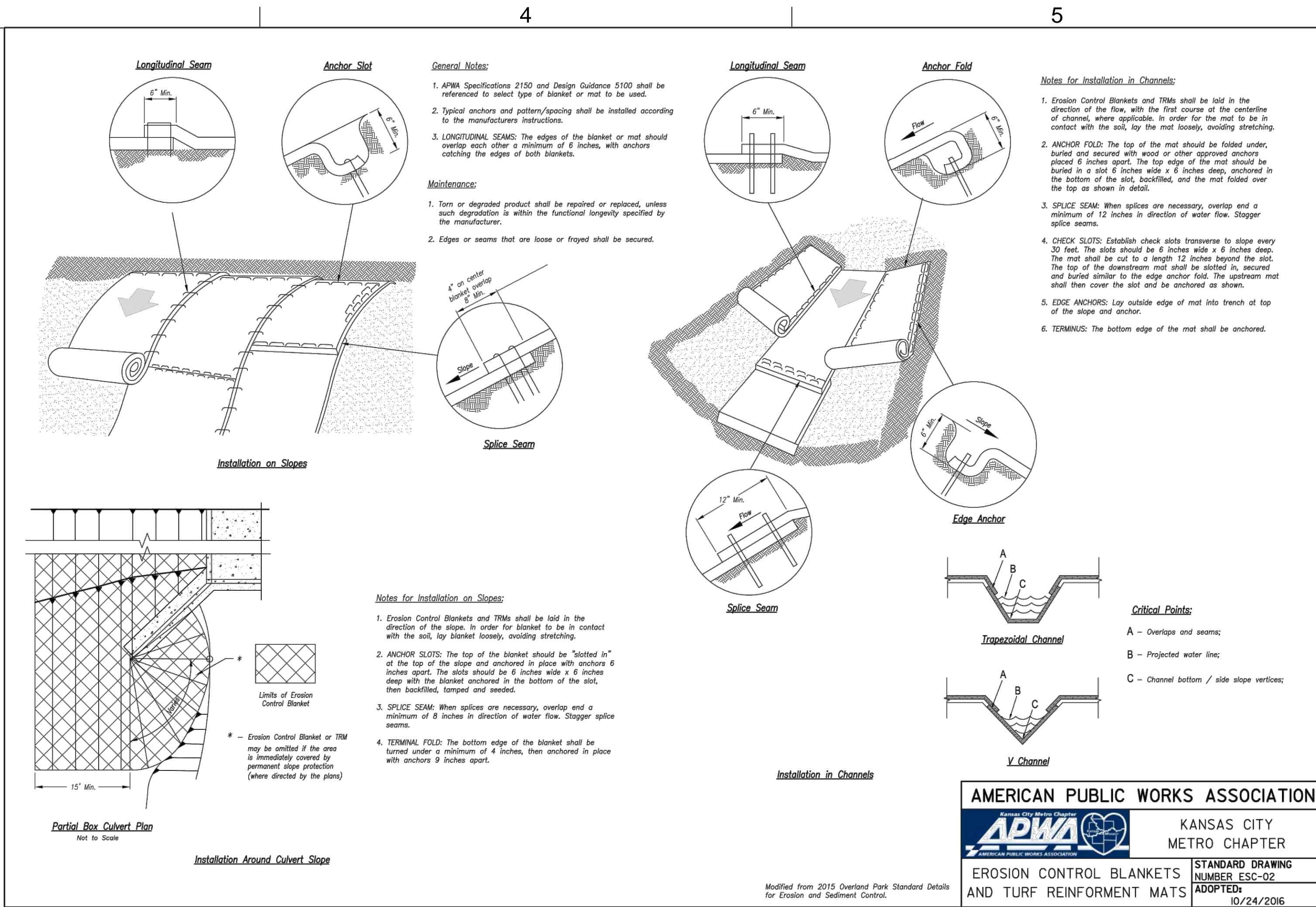
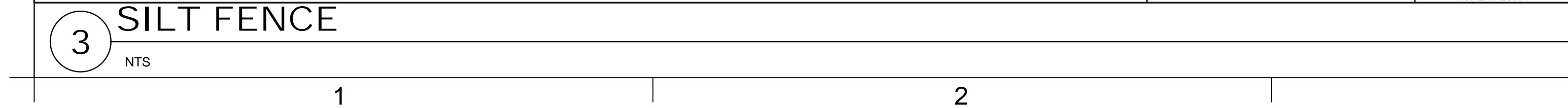
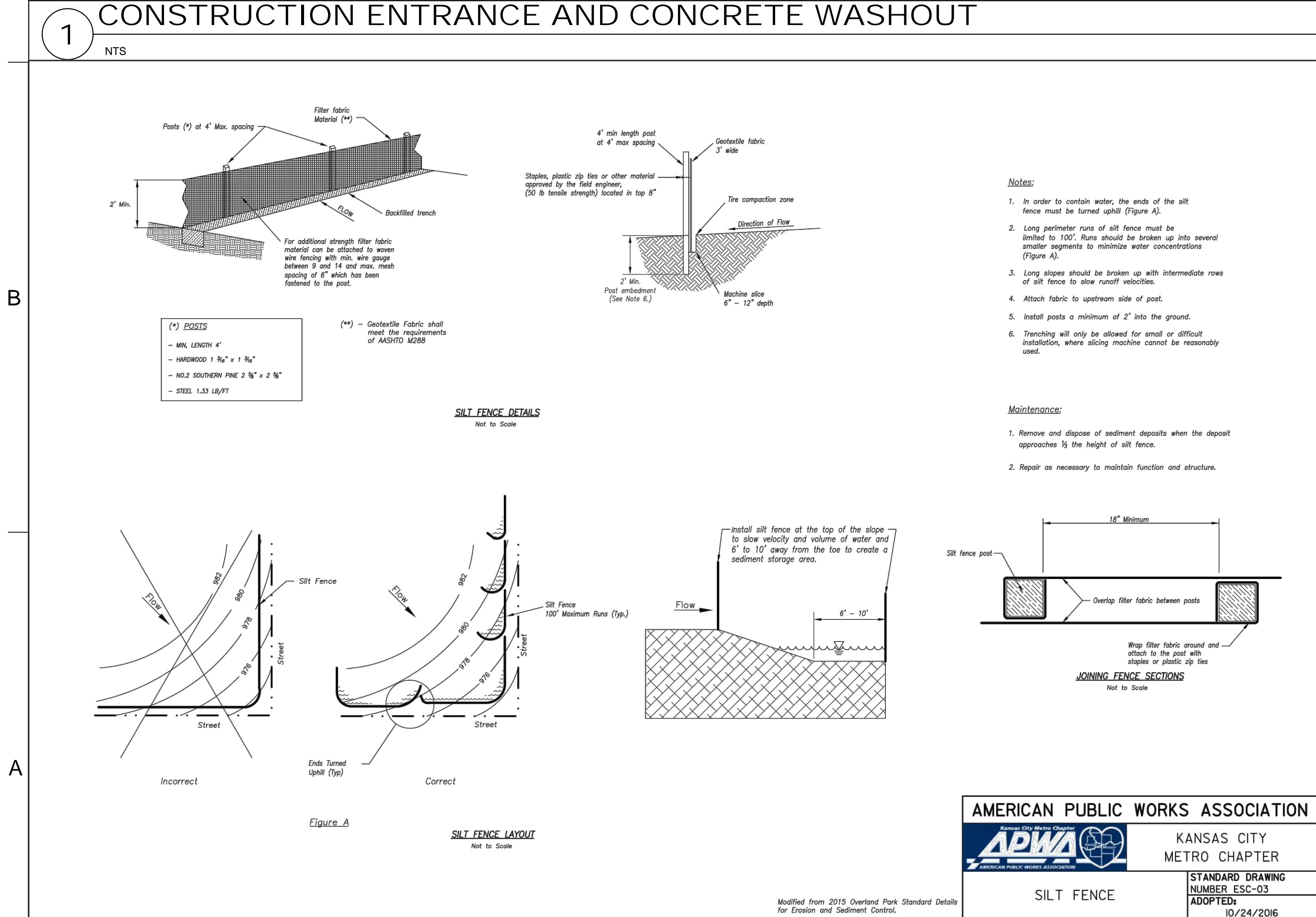
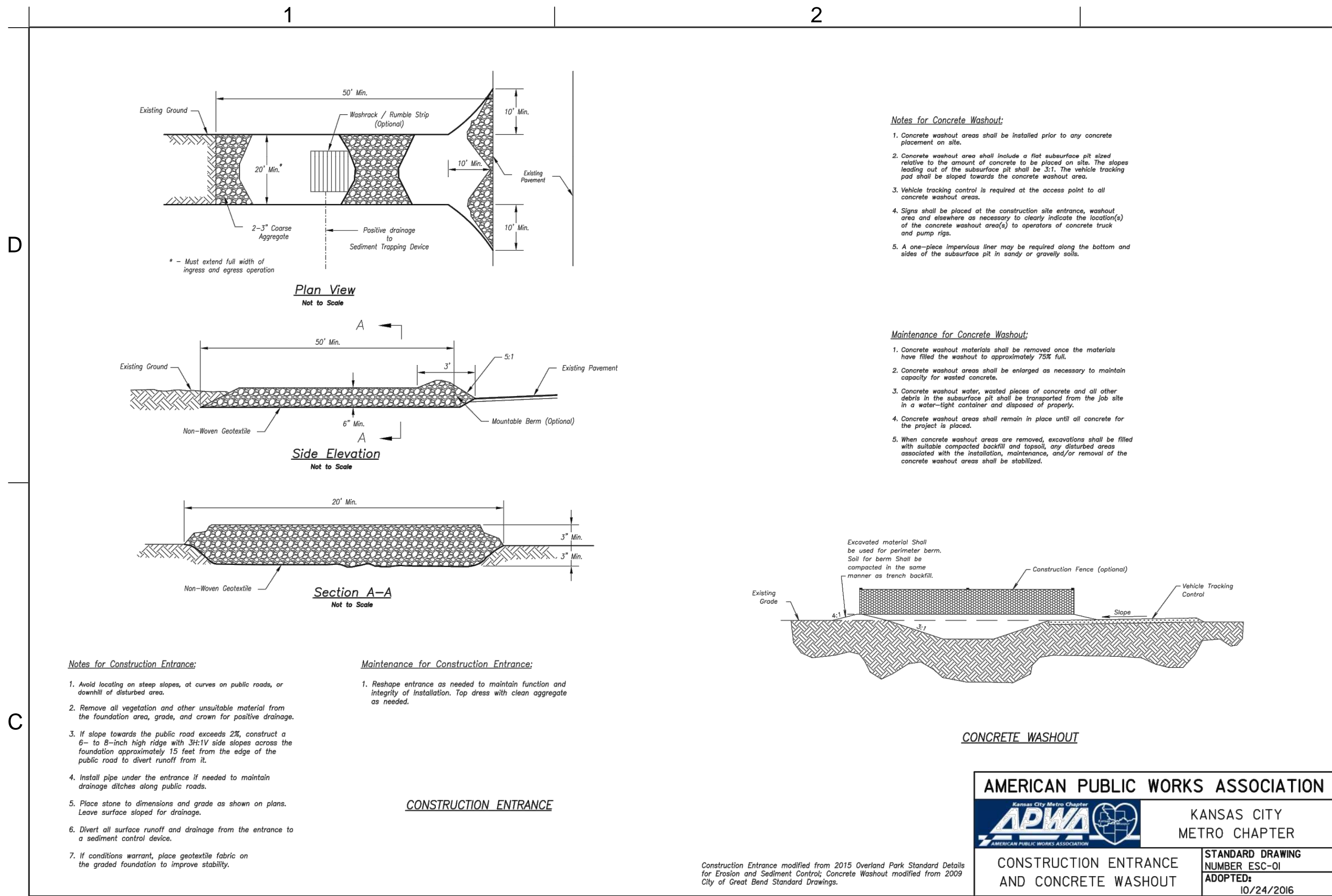
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GRADING
ENLARGEMENTS

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DERICK HOLMES - CIVIL ENGINEER MOD# PE-2022005196

PROJECT NO: 18225R21001

DATE: 10.19.2022

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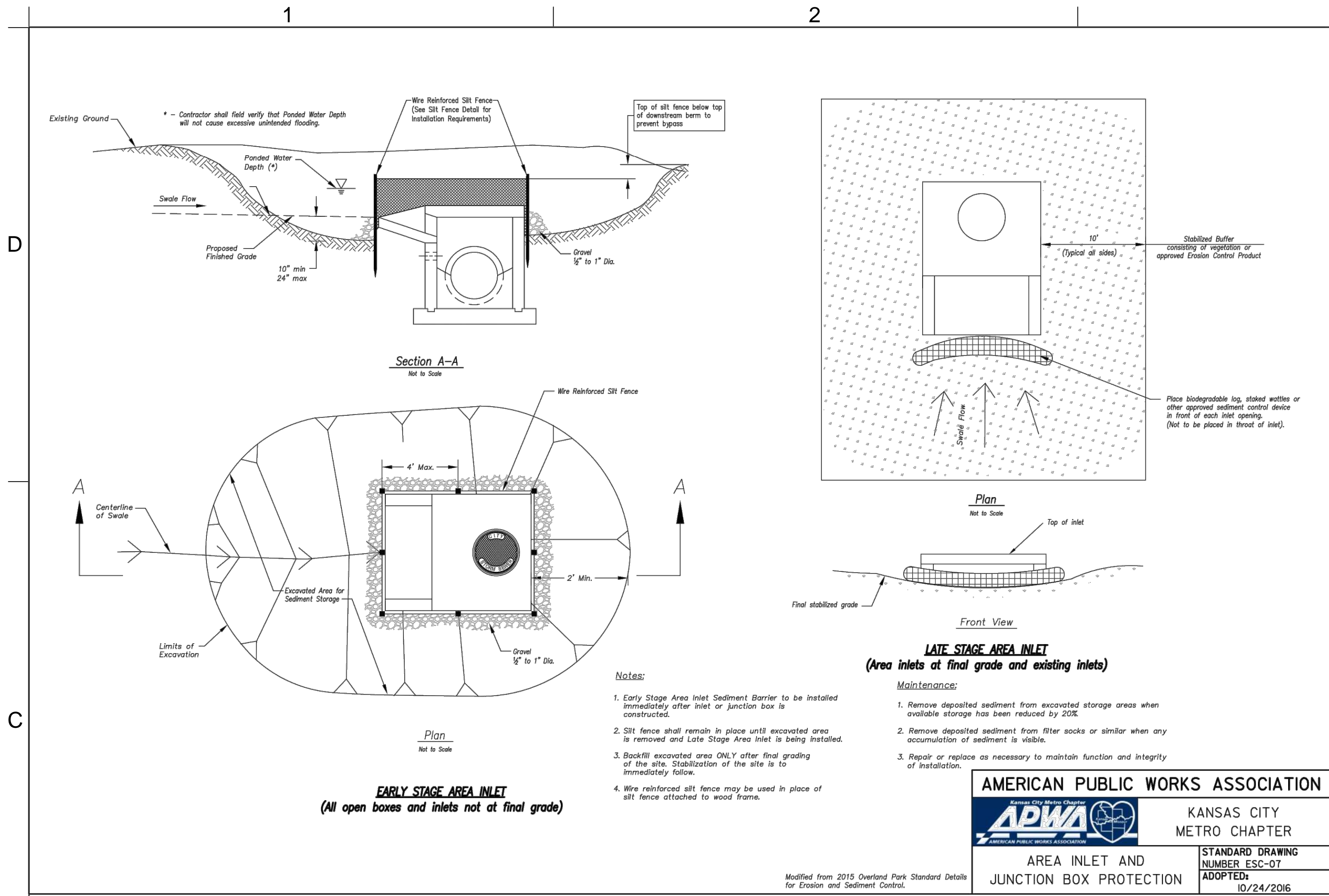
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EROSION CONTROL DETAILS

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1 AREA INLET AND JUNCTION BOX PROTECTION

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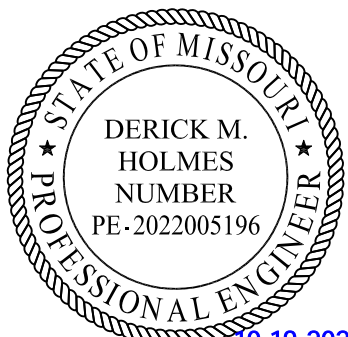
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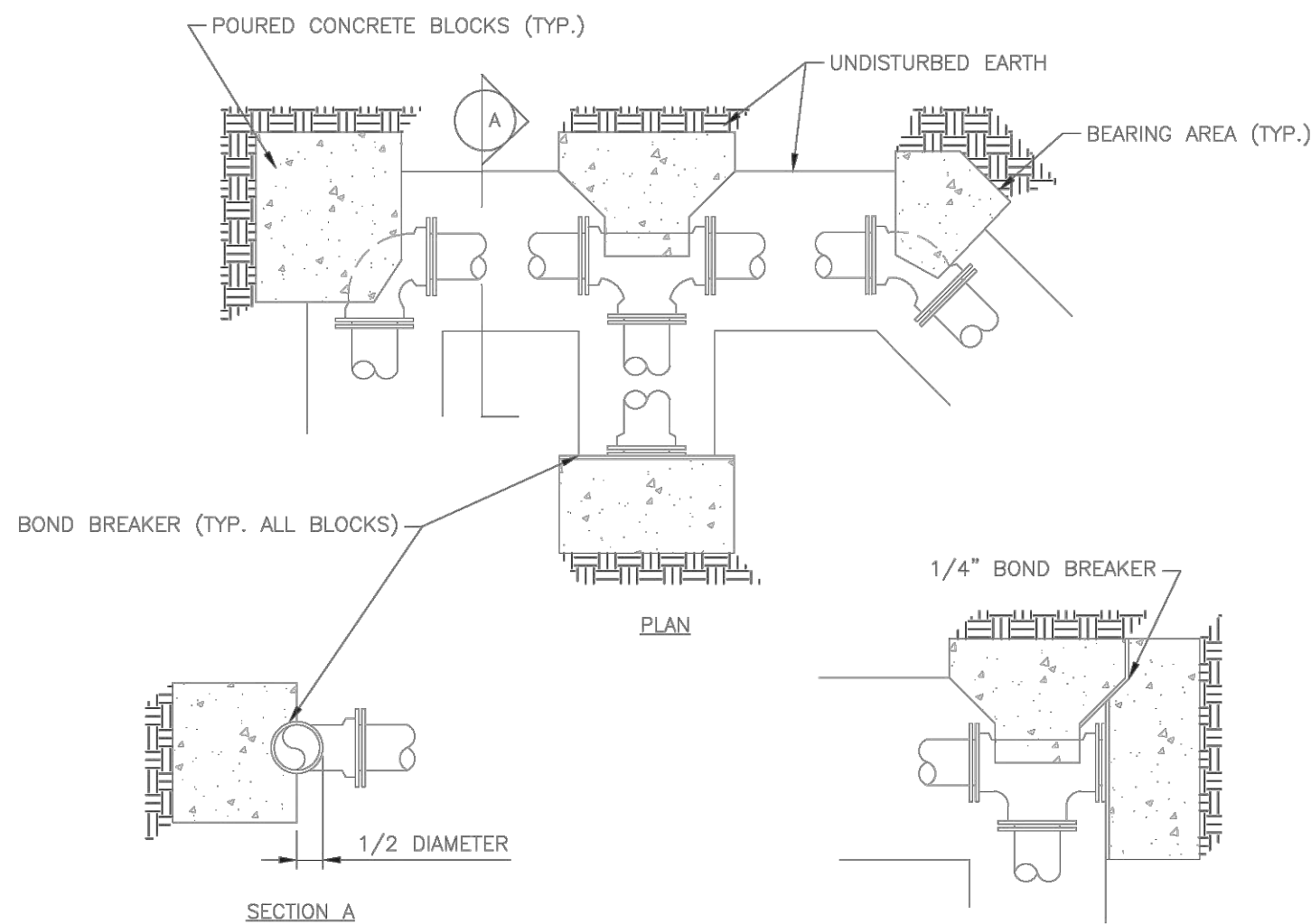
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REQUIRED CONCRETE BEARING AREA (SQUARE FEET - SF)					
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	4.7	6.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
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



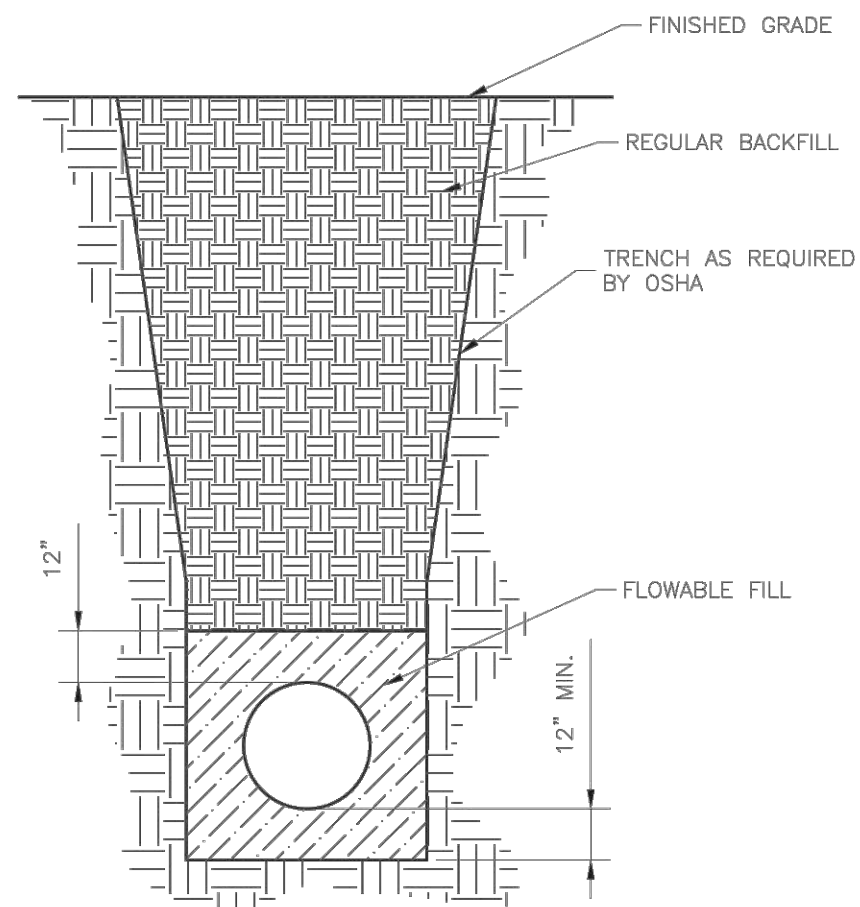
NOTES:

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.



HORIZONTAL THRUST BLOCK

NTS



NOTES:

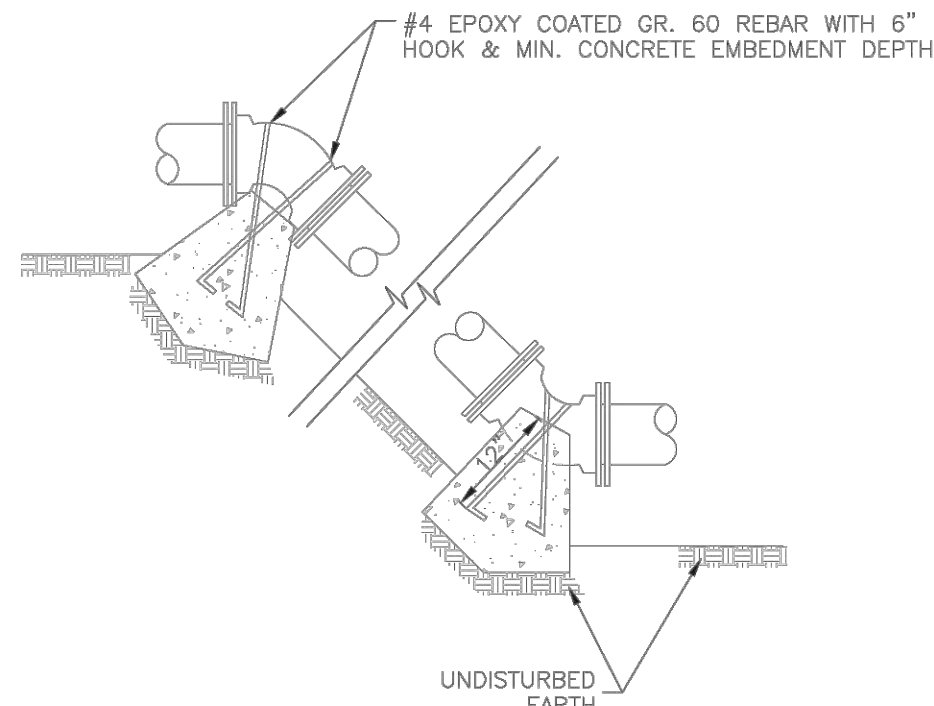
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
4. LENGTH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



WATER TRENCH CHECK DETAIL

NTS

REQUIRED CONCRETE VOLUME (CUBIC FEET - CF)						
NO. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND	
6	50.5	71.4	38.6	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	284.1	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	



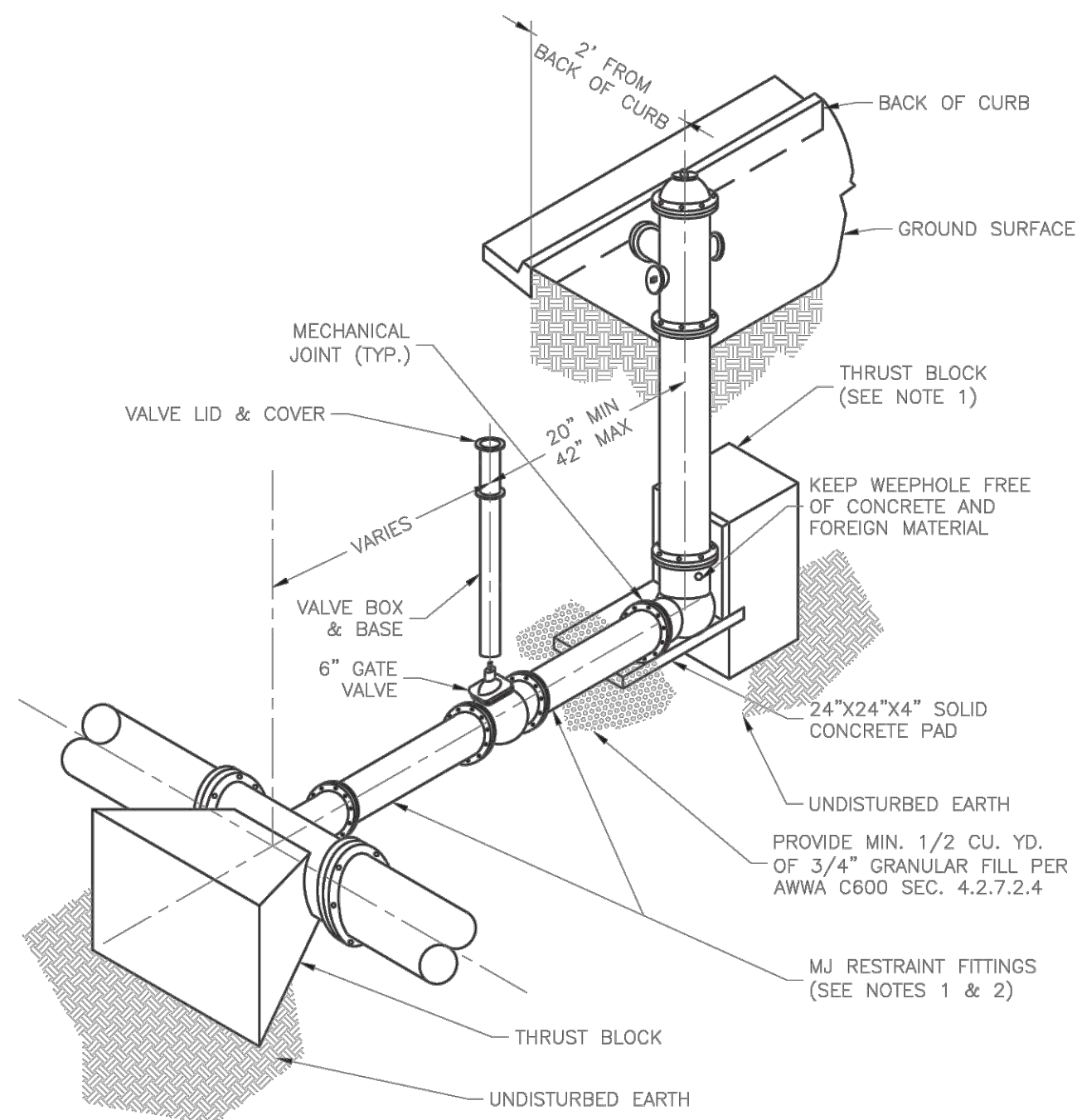
NOTES:

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.



VERTICAL THRUST BLOCK

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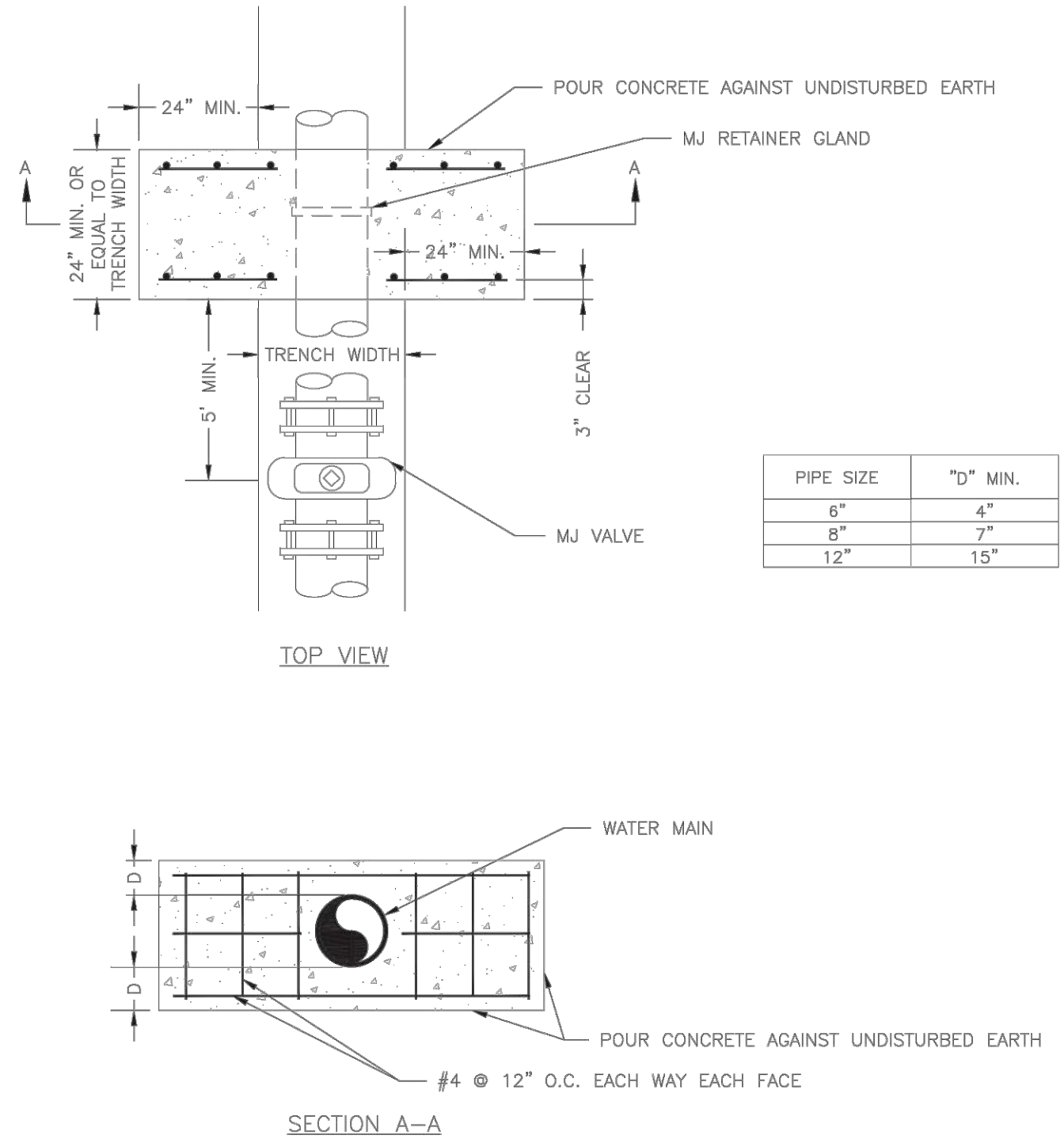
NOTES:

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. ALL FITTINGS AND PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
4. BOTTOM HORIZONTAL FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
5. FOR STREETS WITHOUT CURBS FIRE HYDRANT 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.



HYDRANT - STRAIGHT SET

NTS

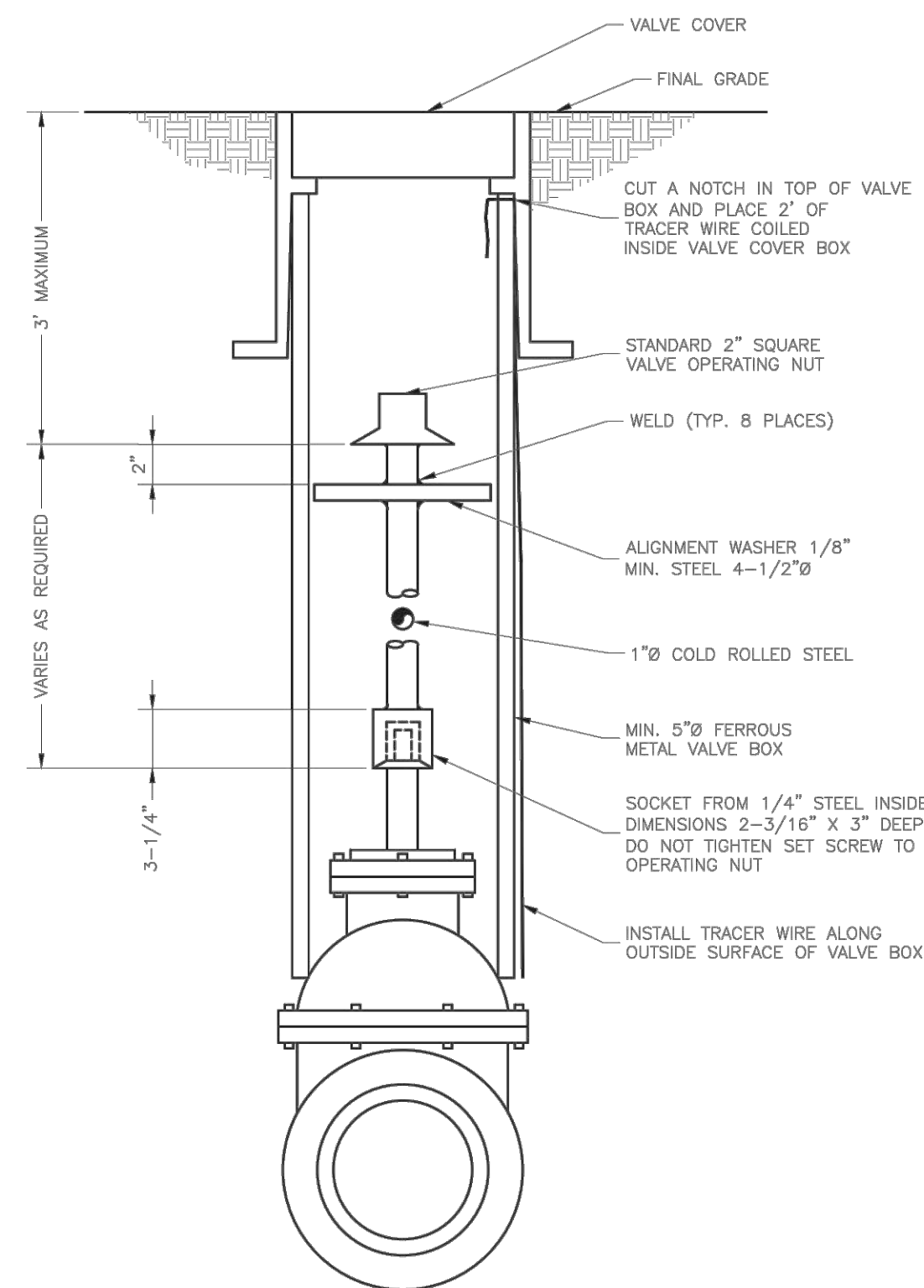


NOTE:
THIS DETAIL NOT TO BE USED FOR PIPE GREATER THAN 12"



STRADDLE BLOCK

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VALVE STEM EXTENSION & VALVE BOX

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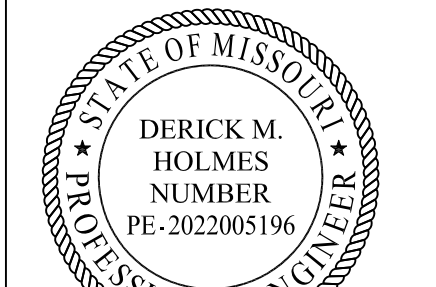
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DATE:	10.19.2022
DRAWN BY:	DMH
CHK'D BY:	SJB

WATER DETAILS

C-520

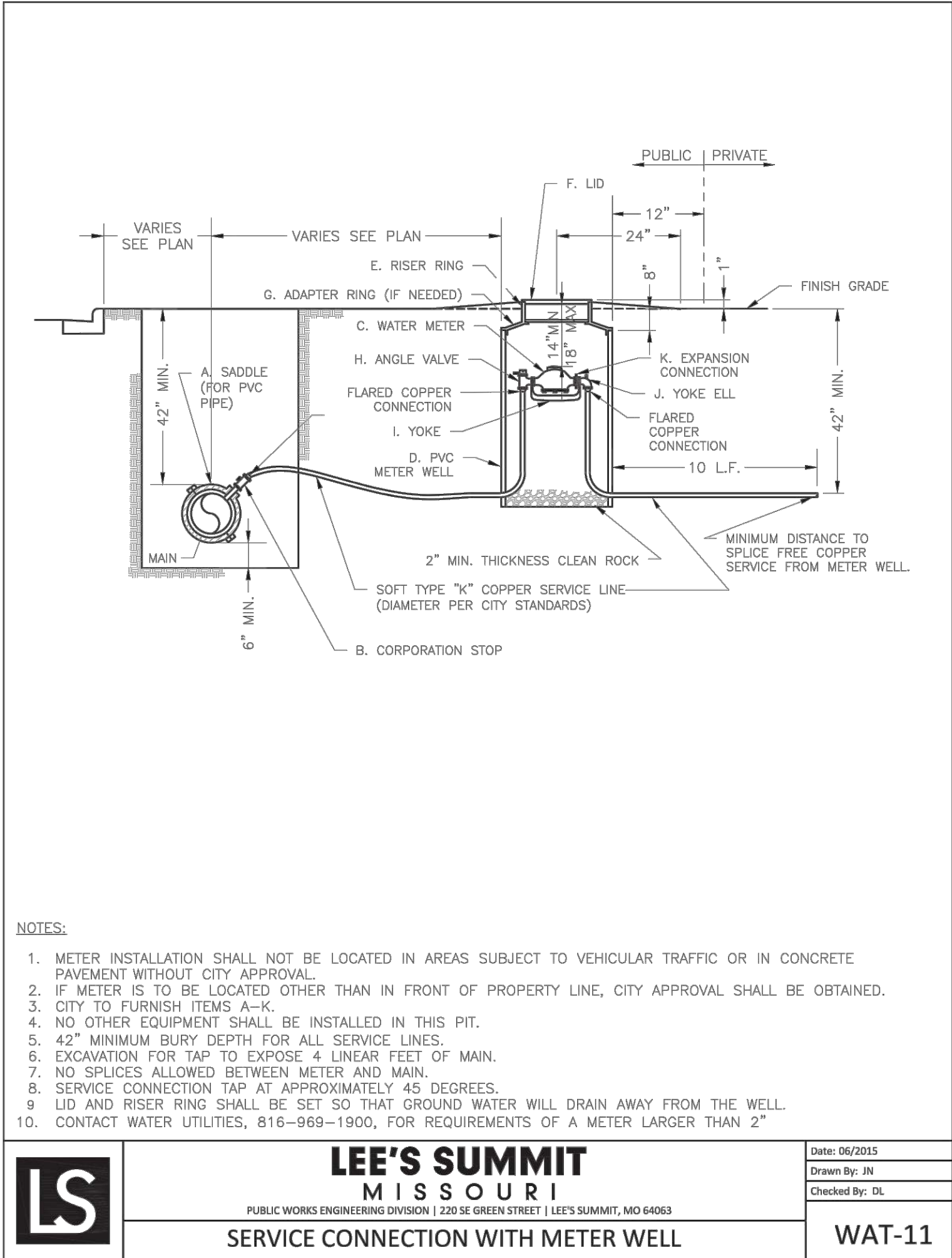
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- NOTES:
1. METER INSTALLATION SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR IN CONCRETE PAVEMENT WITHOUT CITY APPROVAL.
 2. IF METER IS TO BE LOCATED OTHER THAN IN FRONT OF PROPERTY LINE, CITY APPROVAL SHALL BE OBTAINED.
 3. CITY TO FURNISH ITEMS A-K.
 4. NO OTHER EQUIPMENT SHALL BE INSTALLED IN THIS PIT.
 5. 42\"/>

LS

LEE'S SUMMIT

MISSOURI

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

Date: 06/2015

Drawn By: JN

Checked By: DL

WAT-11

SERVICE CONNECTION WITH METER WELL

1

SERVICE CONNECTION WITH METER WELL

NTS

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/15/2022



9229 WARD PARKWAY
SUITE # 210
KANSAS CITY, MO 64114
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#00006

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(913) 362-9090 PHONE

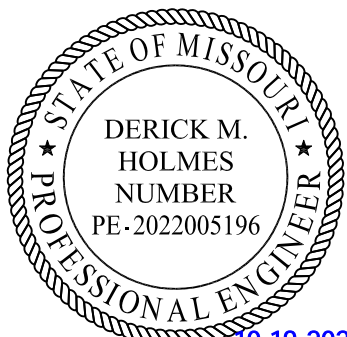
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HENDERSON ENGINEERS
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KANSAS CITY, MO 64108
(816) 663-8700 PHONE

FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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DERICK HOLMES - CIVIL ENGINEER
MO# PE-2022005196

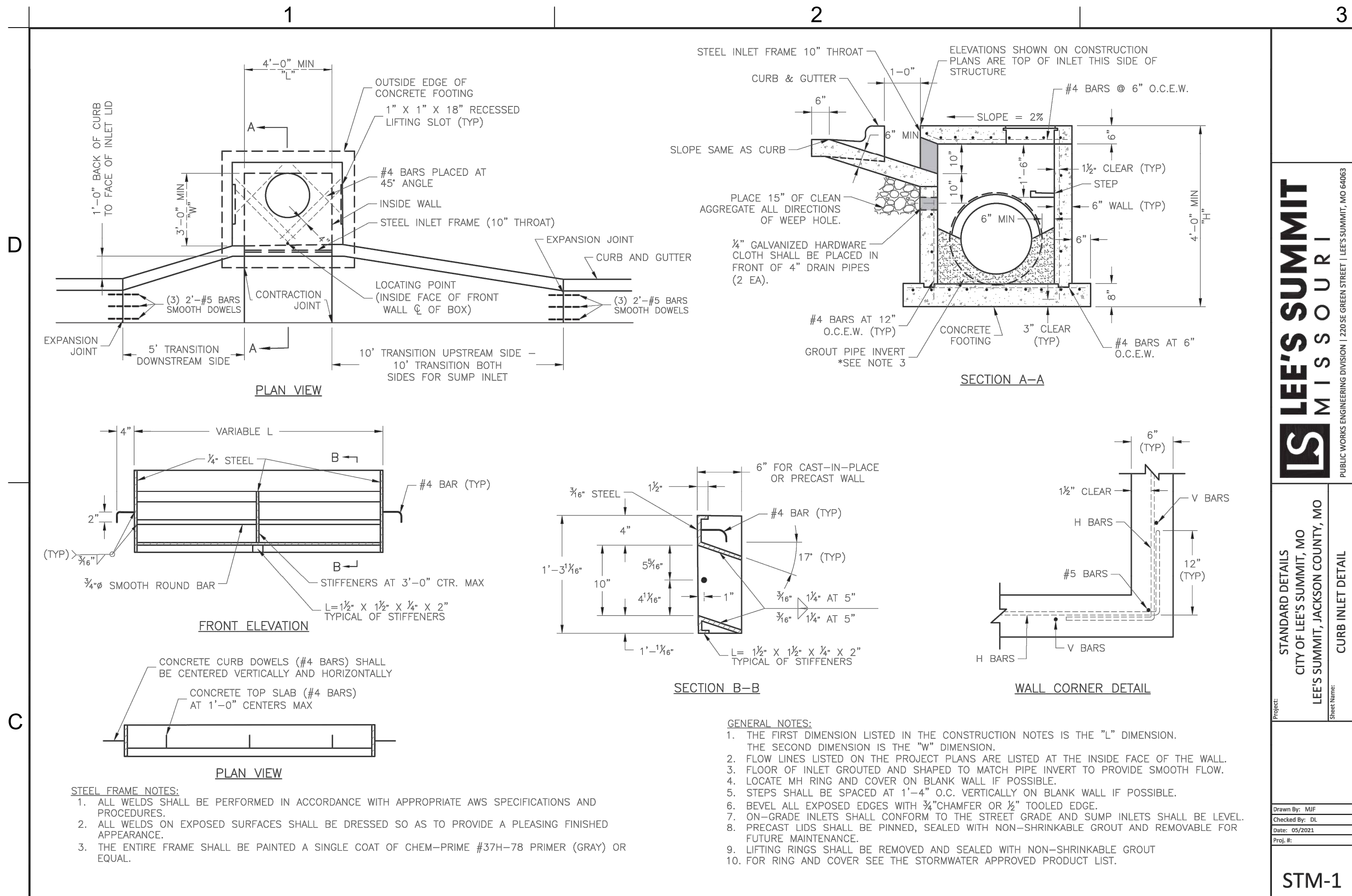
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PROJECT NO:	18225R21001
DATE:	10.19.2022
DRAWN BY:	DMH
CHKD BY:	SJB

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WATER
DETAILS

C-521



D

C

B

A

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Section 2721

Engineered Surface Drainage Products

GENERAL

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.



MATERIALS

The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION

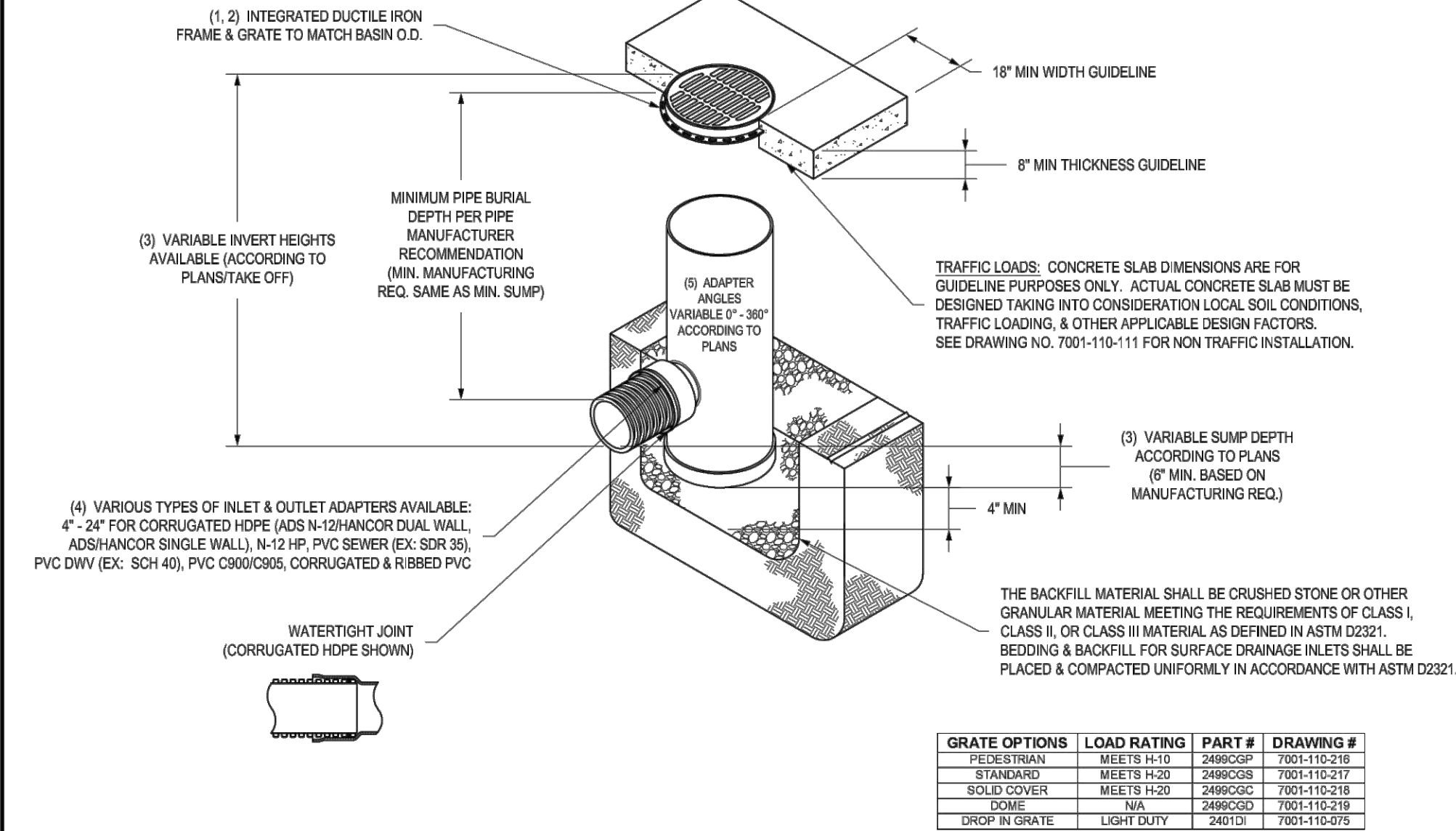
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and 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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	DATE 3-10-00	PROJECT NO. NAME	
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	DATE 02-21-18	PROJECT NO. NAME	
DWG SIZE A	SCALE 1:1	SHEET 1 OF 1	DWG NO. 7001-110-011
TITLE 8 IN - 36 IN DRAIN BASIN SPECIFICATIONS			
REV J			



8 IN - 36 IN DRAIN BASIN SPECIFICATIONS

NTS

NYLOPLAST 24" DRAIN BASIN: 2824AG _X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTAL	MEETS H-10	2480CGR	7001-110-218
STANDARD	MEETS H-20	2480CGR	7001-110-217
SOLID COVER	MEETS H-20	2480CGR	7001-110-219
DOME	NA	2480CGR	7001-110-219
DROP IN GRATE	LIGHT DUTY	2481D	7001-110-075

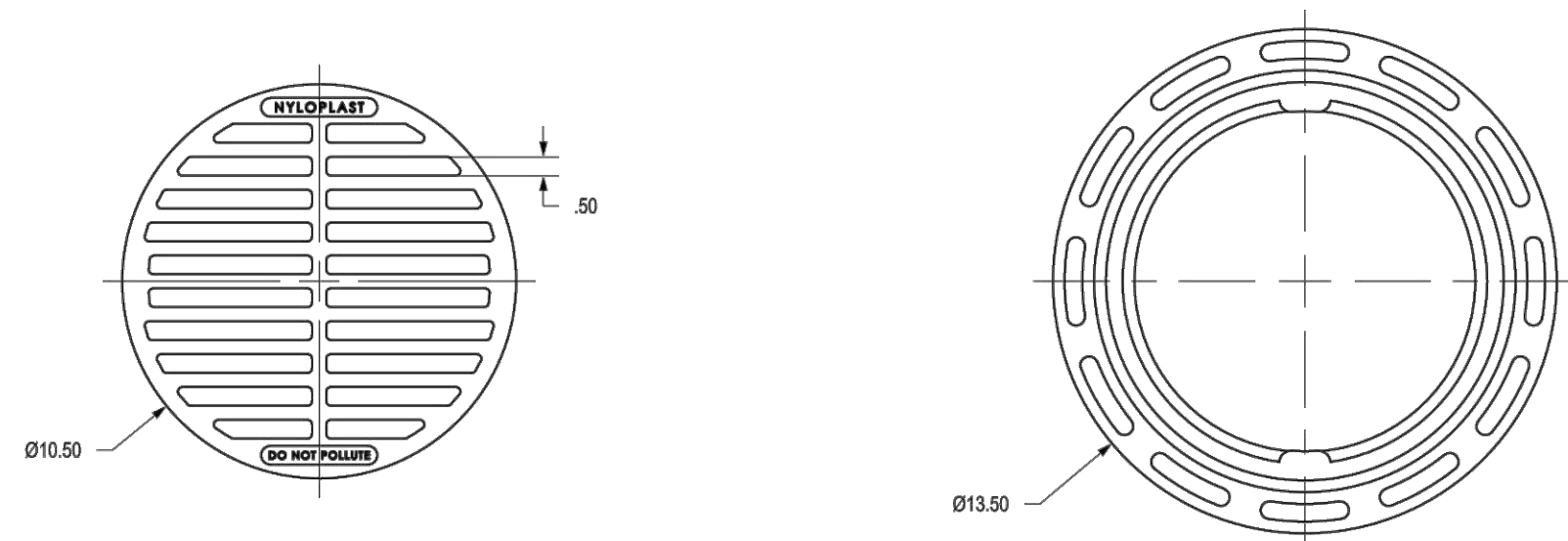
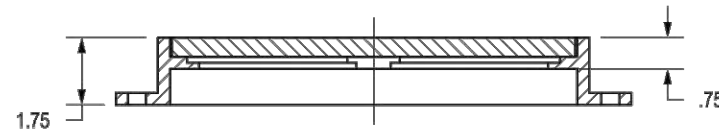
1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE REQUIRED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-085. 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12 HANCOR DUAL WALL), N-12 HP & PVC SEWER. 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 300°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-075.	THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. (00121 NYLOPLAST)	DRAWN BY EBC	MATERIAL	 3130 VERONA AVE BURFORD, GA 30918 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
		DATE 04-09-00	PROJECT NO. NAME	
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		DATE 03-14-16	PROJECT NO. NAME	
DWG SIZE A	SCALE 1/4"	SHEET 1 OF 1	DWG NO. 7001-110-192	REV E
TITLE 24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL				

24" DRAIN BASIN QUICK SPEC INSTALLATION DETAIL



NTS

1099CGSF

APPROX. DRAIN AREA = 37.35 SQ IN
APPROX. WEIGHT = 15.40 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE HAS LIGHT DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART II, DEPARTMENT OF JUSTICE, 28 CFR PART 36.

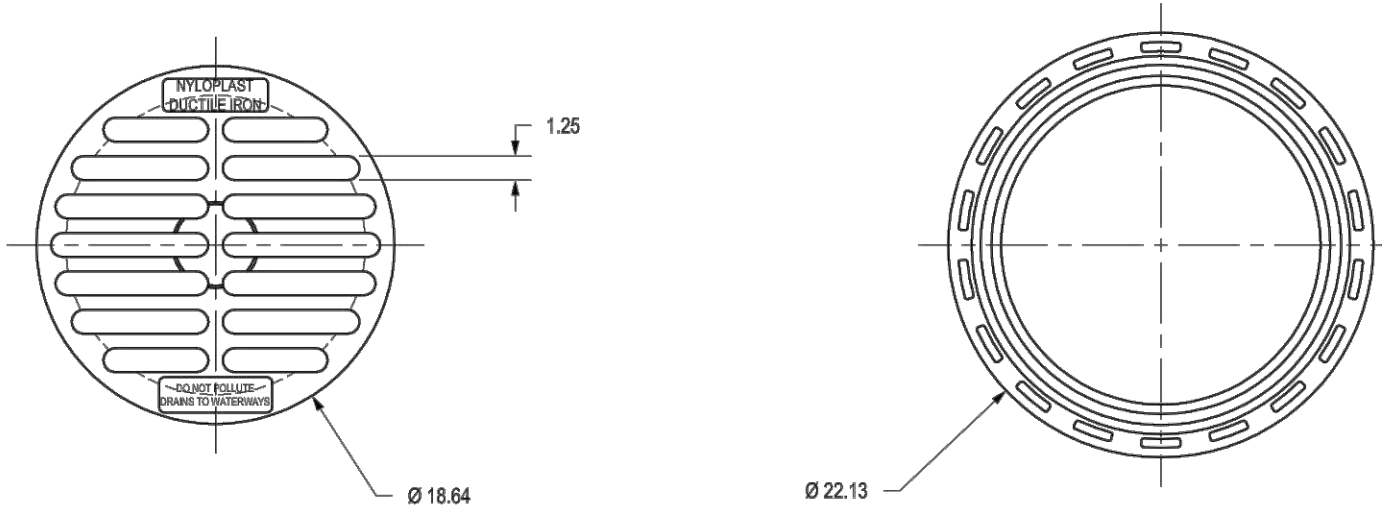
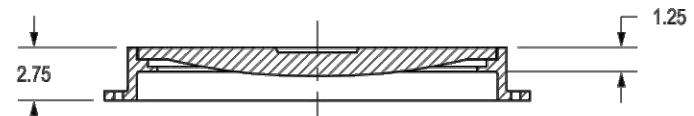
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	DATE 6-25-18	DUCTILE IRON	
THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. (00121 NYLOPLAST)	APPROVED BY NMH	PROJECT NO. NAME	 3130 VERONA AVE BURFORD, GA 30918 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
	DATE 6-25-18	PROJECT NO. NAME	
DWG SIZE A	SCALE 1:5	SHEET 1 OF 1	DWG NO. 7001-110-040
TITLE 10 IN STANDARD GRATE ASSEMBLY - TYPE B			
REV A			

10" STANDARD GRATE ASSEMBLY - TYPE B



NTS

1899CGS

APPROX. DRAIN AREA = 116.72 SQ IN
APPROX. WEIGHT WITH FRAME = 68.50 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-029

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	DATE 3-4-06	DUCTILE IRON	
THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. (00121 NYLOPLAST)	REVISED BY EBC	PROJECT NO. NAME	 3130 VERONA AVE BURFORD, GA 30918 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
	DATE 3-13-10	PROJECT NO. NAME	
DWG SIZE A	SCALE 1:10	SHEET 1 OF 1	DWG NO. 7001-110-213
TITLE 18 IN STANDARD GRATE ASSEMBLY - TYPE C			
REV C			

18" STANDARD GRATE ASSEMBLY-TYPE C

NTS



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CITY OF LEE'S SUMMIT

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LEE'S SUMMIT, MISSOURI 64064

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REVISIONS:

#	Description	Date
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DERICK HOLMES - CIVIL ENGINEER
MO# PE-2022005196

The Professional Engineers and drafters of this sheet agree to the terms and conditions of the contract. All drawings, statements or other documents not including this sheet shall not be considered prepared by this engineer, and the engineer assumes no responsibility for such plans, drawings, or documents not including this sheet.

PROJECT NO: 18225R21001
DATE: 10.19.2022
DRAWN BY: DMH
CHKD BY: SJB

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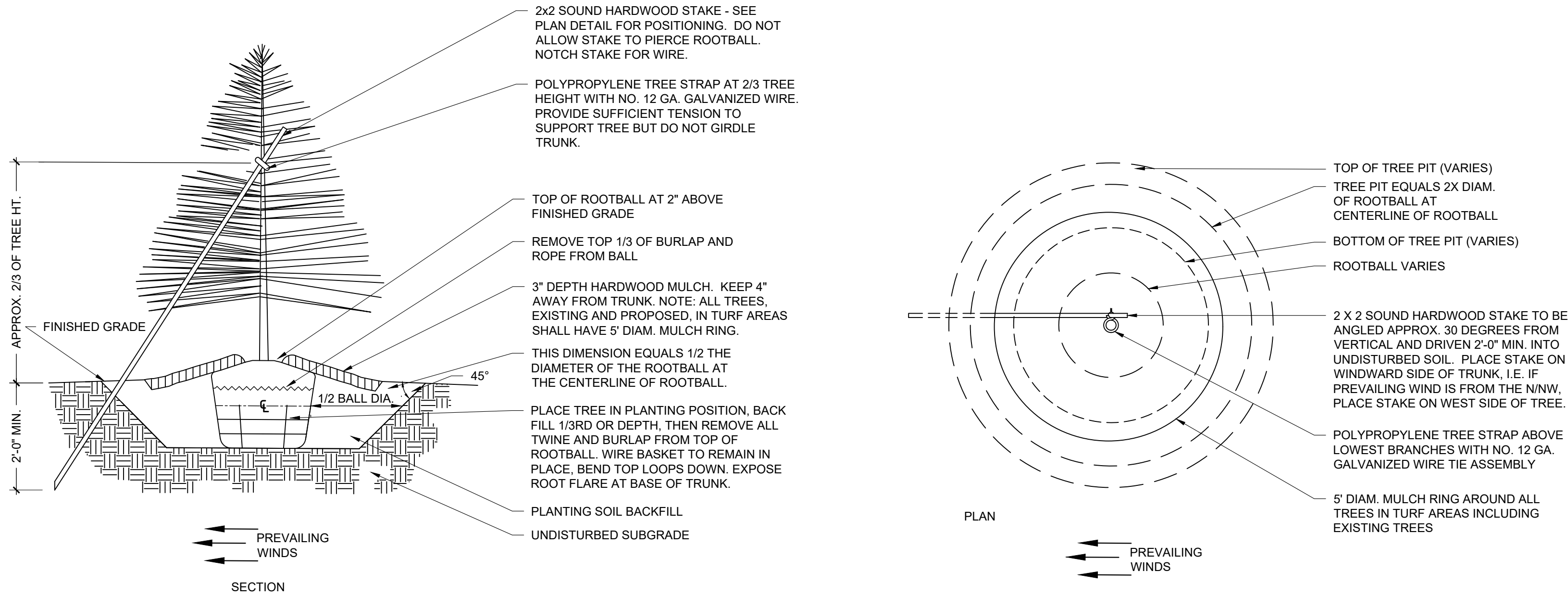
STORMWATER
DETAILS

C-531

PLEASE CONSIDER THE ENVIRONMENT
BEFORE PRINTING THIS

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12/15/2022

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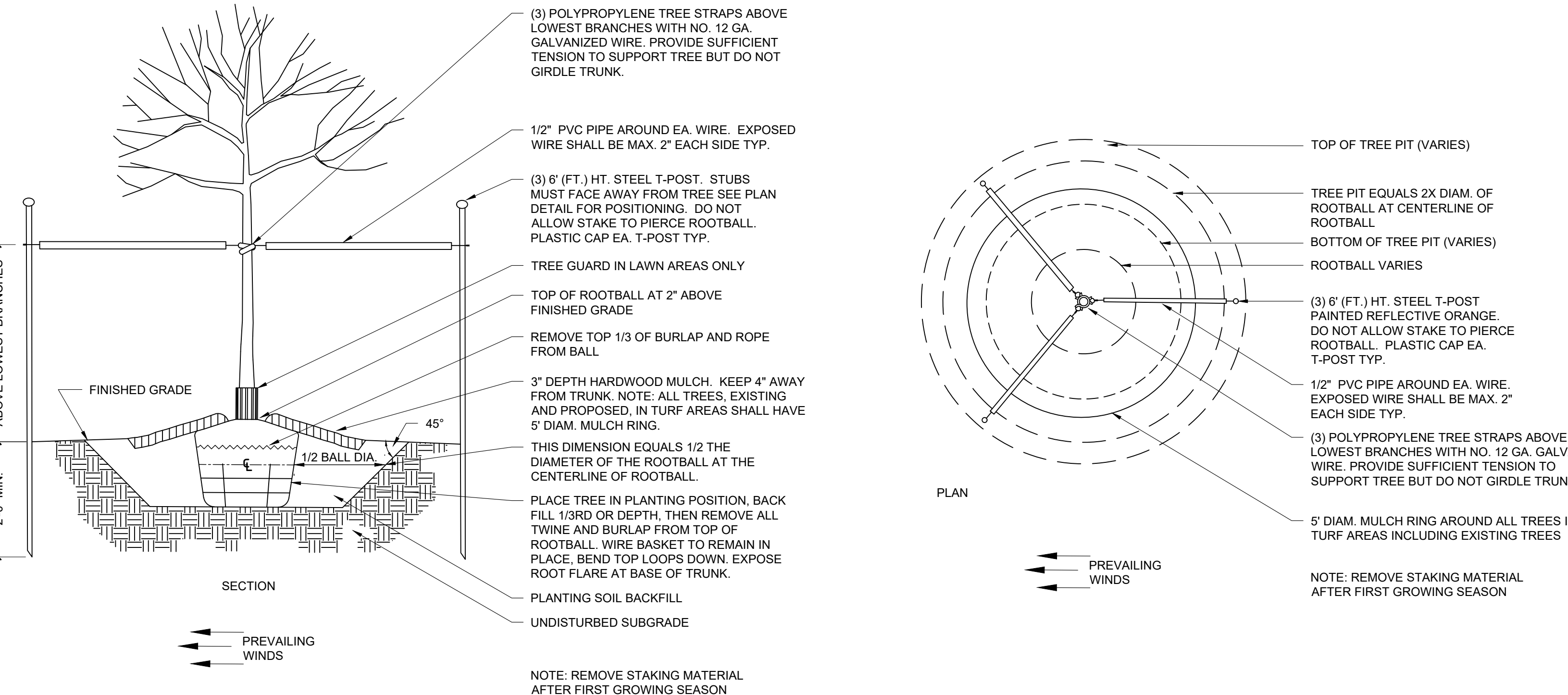


1

EVERGREEN TREE PLANTING

N.T.S.

C



2

EVERGREEN TREE STAKING

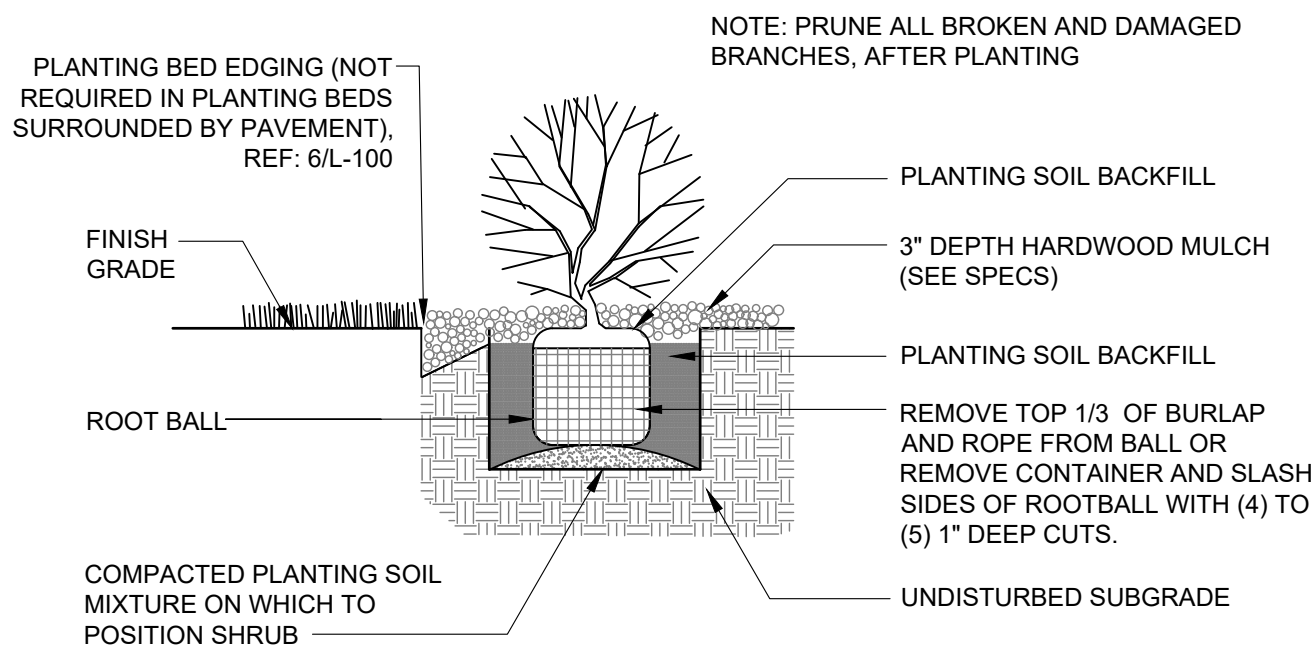
N.T.S.

B

3

DECIDUOUS TREE PLANTING

N.T.S.



5

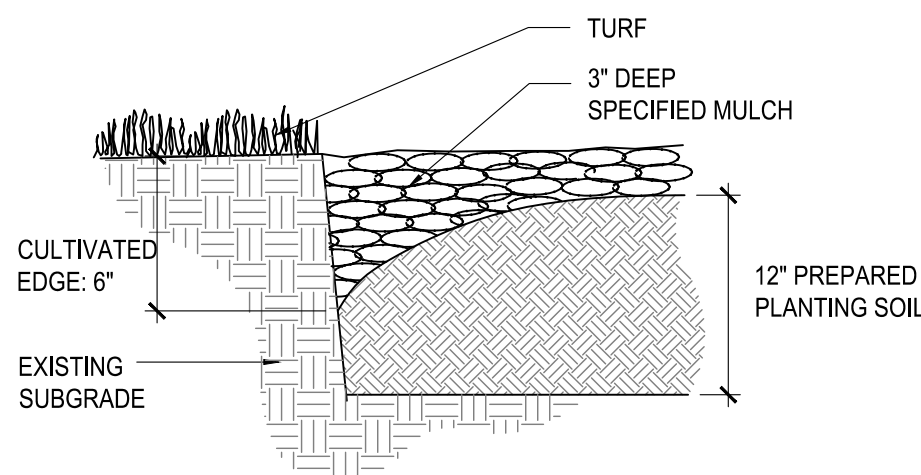
SHRUB PLANTING

N.T.S.

4

DECIDUOUS TREE STAKING

N.T.S.



6





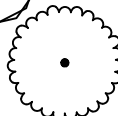


















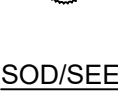

CULTIVATED EDGE

N.T.S.

GENERAL LANDSCAPE SITE NOTES

- PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL GIVE 48 HOURS ADVANCE NOTICE TO ALL 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 NAME	COMMON NAME	CONT	SIZE	
	MA	4	Malus x 'Adirondack'	Adirondack Crabapple	B & B	3" 	
	NW	7	Nyssa sylvatica 'Wildfire'	Black Gum	B & B	3" 	
	ZM	5	Zelkova serrata 'Musashino'	Musashino Sawleaf Zelkova	B & B	3" 	
CONIFERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	
	PB	2	Picea pungens 'Baby Blue'	Baby Blue Colorado Spruce	B & B	8' Ht 	
	TS	18	Thuja occidentalis 'Smaragd'	Emerald Green Arborvitae	B & B	8' Ht 	
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SPACING	SPACING
	Ca	17	Cornus sericea 'Artic Fire'	Artic Fire Dogwood	5 gal	Pot	48" o.c.
	Ec	10	Euonymus alatus 'Compactus'	Compact Burning Bush	5 gal	Pot	72" o.c.
	Ho	43	Hemerocallis x 'Stella de Oro'	Stella de Oro Daylily	Quart	Pot	18" o.c.
	Hf	17	Hosta x 'First Frost'	First Frost Hosta	2 gal	Pot	30" o.c.
	Il	10	Itea virginica 'Little Henry' TM	Virginia Sweetspire	2 gal	Pot	36" o.c.
	Pi	6	Perovskia atriplicifolia 'Little Spire' TM	Little Spire Russian Sage	2 gal	Pot	24" o.c.
	Rr	19	Rosa x 'Knockout' TM	Rose	2 gal	Pot	48" o.c.
GRASSES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SPACING	SPACING
	Ck	21	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	3 gal.	Pot	36" o.c.
	Fe	28	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	1 gal.	Pot	18" o.c.
	Sp	18	Schizachyrium scoparium 'Prairie Munchkin'	Prairie Munchkin Little Bluestem	2 gal	Pot	24" o.c.
	Sh	42	Sporobolus heterolepis	Prairie Dropseed	2 gal	Pot	30" o.c.
EVERGREEN	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SPACING	SPACING
	Jl	19	Juniperus chinensis 'Gold Lace'	Gold Lace Juniper	5 gal	Pot	60" o.c.
	Ja	8	Juniperus horizontalis 'Andorra'	Andorra Juniper	2 gal	Pot	48" o.c.
SOD/SEED	CODE	QTY	BOTANICAL NAME	COMMON NAME	TYPE		
	Fa	16,824 sf 	Festuca arundinacea 90% Fescue, 10% Bluegrass Mix	Tall Fescue	sod		

RELEASED FOR CONSTRUCTION As Noted on Plans

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/15/2022

7

LANDSCAPE SCHEDULE

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
#000005

CIVIL ENGINEER & LANDSCAPE ARCH.
GLMV ARCHITECTURE, INC.
MISSOURI CIVIL COA #2019033898
MISSOURI LANDSCAPE COA #000008
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MECH., ELEC. & PLUMBING ENGINEERS
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SECURITY & IT ENGINEERS
HENDERSON ENGINEERS
MISSOURI COA # 000556
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(816) 663-8700 PHONE

FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

#	Description	Date
1	ASI 01	11.16.2022

KYLE WARD - LANDSCAPE ARCHITECT
MOR PLA-2016002020
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PROJECT NO:	18225R21001
DATE:	10.19.2022
DRAWN BY:	KDW
CHKD BY:	CDW

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LANDSCAPE
SCHEDULE

L-100

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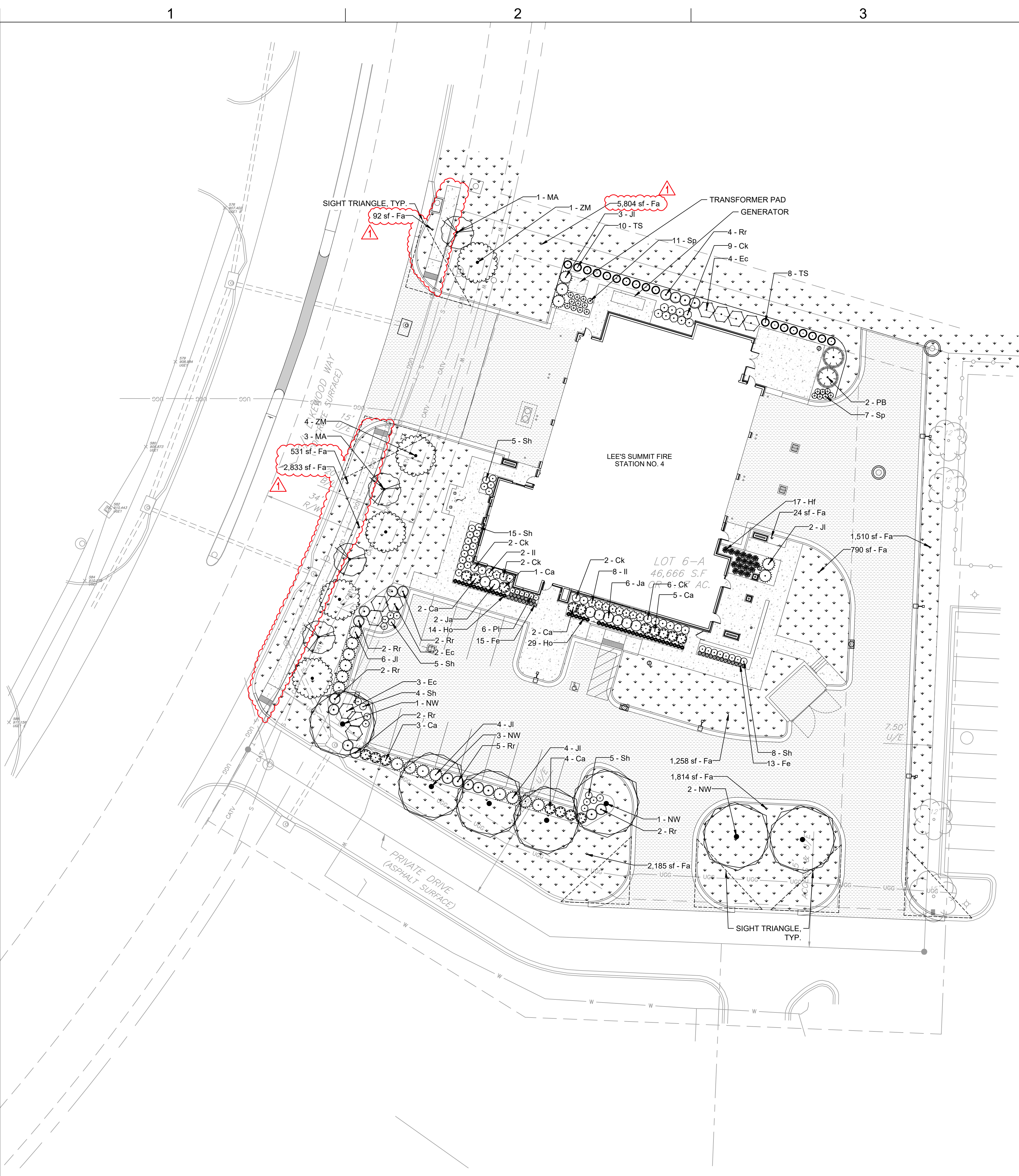
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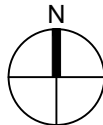
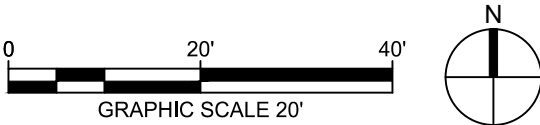
LANDSCAPE NOTES

- 1. ALL SHRUBS ADJACENT TO A SIDEWALK OR EDGE SHALL BE PLANTED 1/2 THE SPACING SPECIFIED IN THE PLANT SCHEDULE.
- 2. SEE SHEET L-100 FOR PLANT SCHEDULE AND QUANTITIES.
- 3. FINAL PLANT LOCATIONS TO BE VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 4. ALL PLANTING BED EDGES SHALL BE A CULTIVATED EDGE. SEE DETAIL 6 ON SHEET L-100.
- 5. 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
	MA	Malus x 'Adirondack'	Adirondack Crabapple
	NW	Nyssa sylvatica 'Wildfire'	Black Gum
	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
	Il	Itea virginica 'Little Henry' TM	Virginia Sweetspire
	Pi	Perovskia atriplicifolia 'Little Spire' TM	Little Spire Russian Sage
	Rr	Rosa x 'Knockout' TM	Rose
GRASSES	CODE	BOTANICAL NAME	COMMON NAME
	Ck	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass
	Fe	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue
	Sp	Schizachyrium scoparium 'Prairie Munchkin'	Prairie Munchkin Little Bluestem
	Sh	Sporobolus heterolepis	Prairie Dropseed
EVERGREEN	CODE	BOTANICAL NAME	COMMON NAME
	Jl	Juniperus chinensis 'Gold Lace'	Gold Lace Juniper
	Ja	Juniperus horizontalis 'Andorra'	Andorra Juniper
SOD/SEED	CODE	BOTANICAL NAME	COMMON NAME
	Fa	Festuca arundinacea 90% Fescue, 10% Bluegrass Mix	Tall Fescue

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1 LANDSCAPE PLAN

1" = 20'-0"



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11/16/2022
KYLE WARD - LANDSCAPE ARCHITECT
MO# PLA-2016002020
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PROJECT NO: 18225R21001
DATE: 10.19.2022
DRAWN BY: KDW
CHKD BY: CDW

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LANDSCAPE PLAN

L-101

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E

D

C

B

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_a 0.099
 3. S_1 0.068
 4. S_{D1} 0.105
 5. S_{D1} 0.108
 6. SEISMIC IMPORTANCE FACTOR, I 1.5
 7. SITE CLASS C
 8. SEISMIC DESIGN CATEGORY
 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. 5-307
 8. ROOF COMPONENTS & CLADDING (U.N.O.) REF. 5-307
 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.
8. 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 CONCRETE SLABS-ON-GRADE SHALL BE CUT TO 1/3 OF DEPTH WHEN USING WET-CUTTING PROCESS AND 1/4 OF DEPTH WHEN USING EARLY-ENTRY DRY-CUT PROCESS. CUT JOINTS AS SOON AS APPLICABLE AFTER PROCESS USED. AFTER CONCRETE HAS BEEN PLACED WITHOUT DISLODGING AGGREGATE, OR USE A KEVED COLD JOINT.
- J. CUT SLABS-ON-GRADE INTO AREAS OF APPROXIMATELY 225 SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS AS POSSIBLE. LENGTH TO WIDTH RATIOS OF JOINTED PANELS SHALL NOT EXCEED 1.5:1. COORDINATE LOCATIONS OF CONTROL JOINTS WITH ARCHITECT.
- K. 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.
- L. 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, PLACE, 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/SA540 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.	GYPNUM
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
SEC.	SECTION
SHT.	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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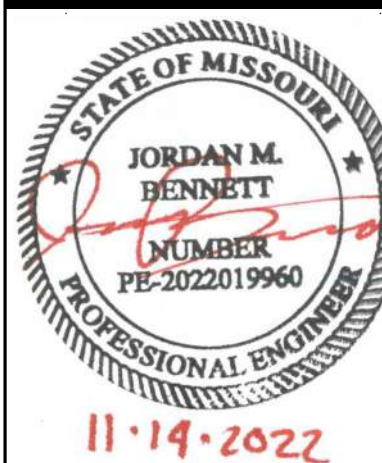
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FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

#	Description	Date
1	ASB 01	11/16/2022



PROJECT NO.: 18225R21001
DATE: 11.16.2022
DRAWN BY: JMB
CHKD BY: WNH

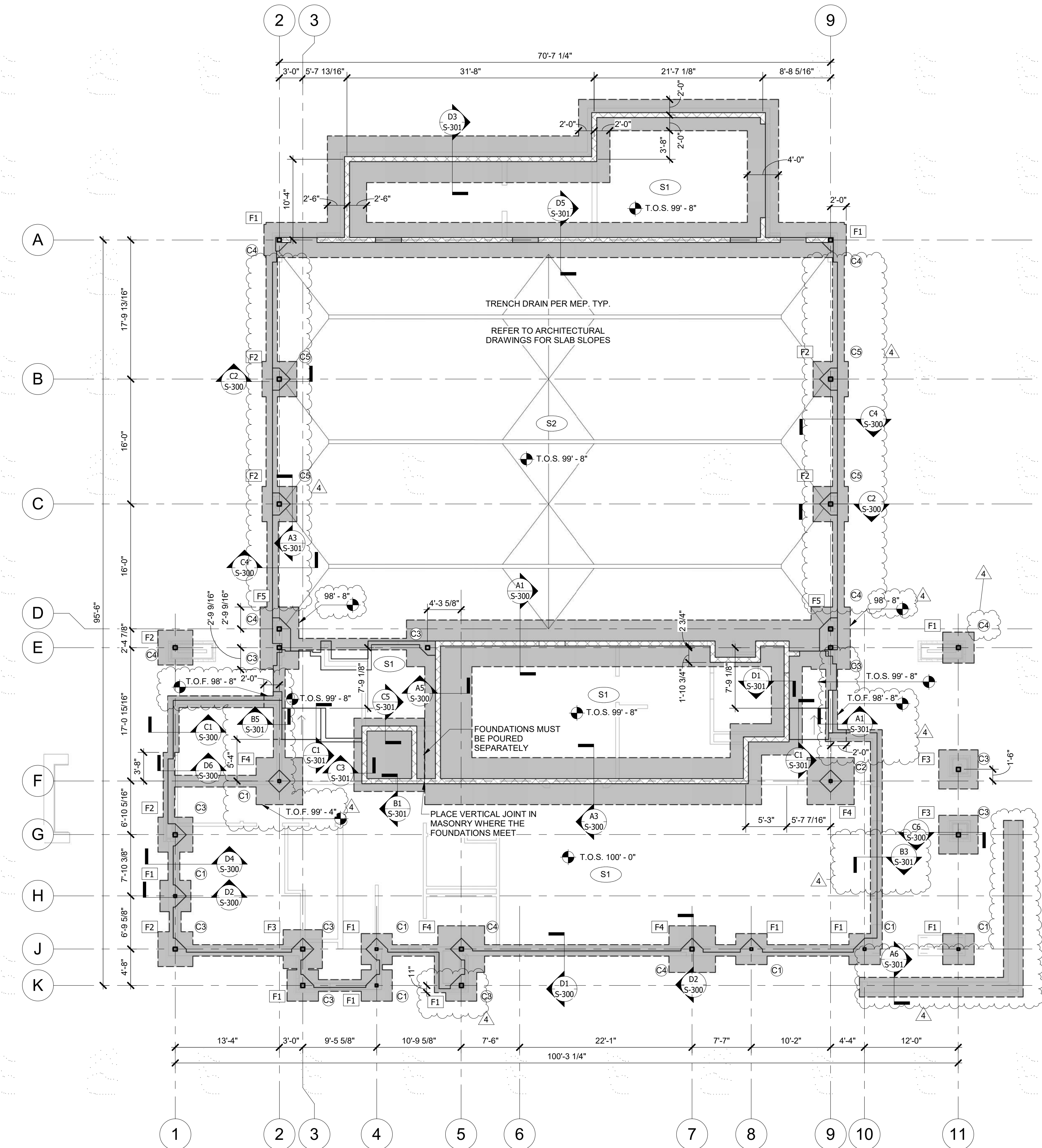
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GENERAL NOTES

S-001

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A1 FOUNDATION PLAN
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 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 FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
10. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR RETAINING WALL AND RAMP LOCATION AND ELEVATION INFORMATION.
11. 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 #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

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
PLAN**

S-100

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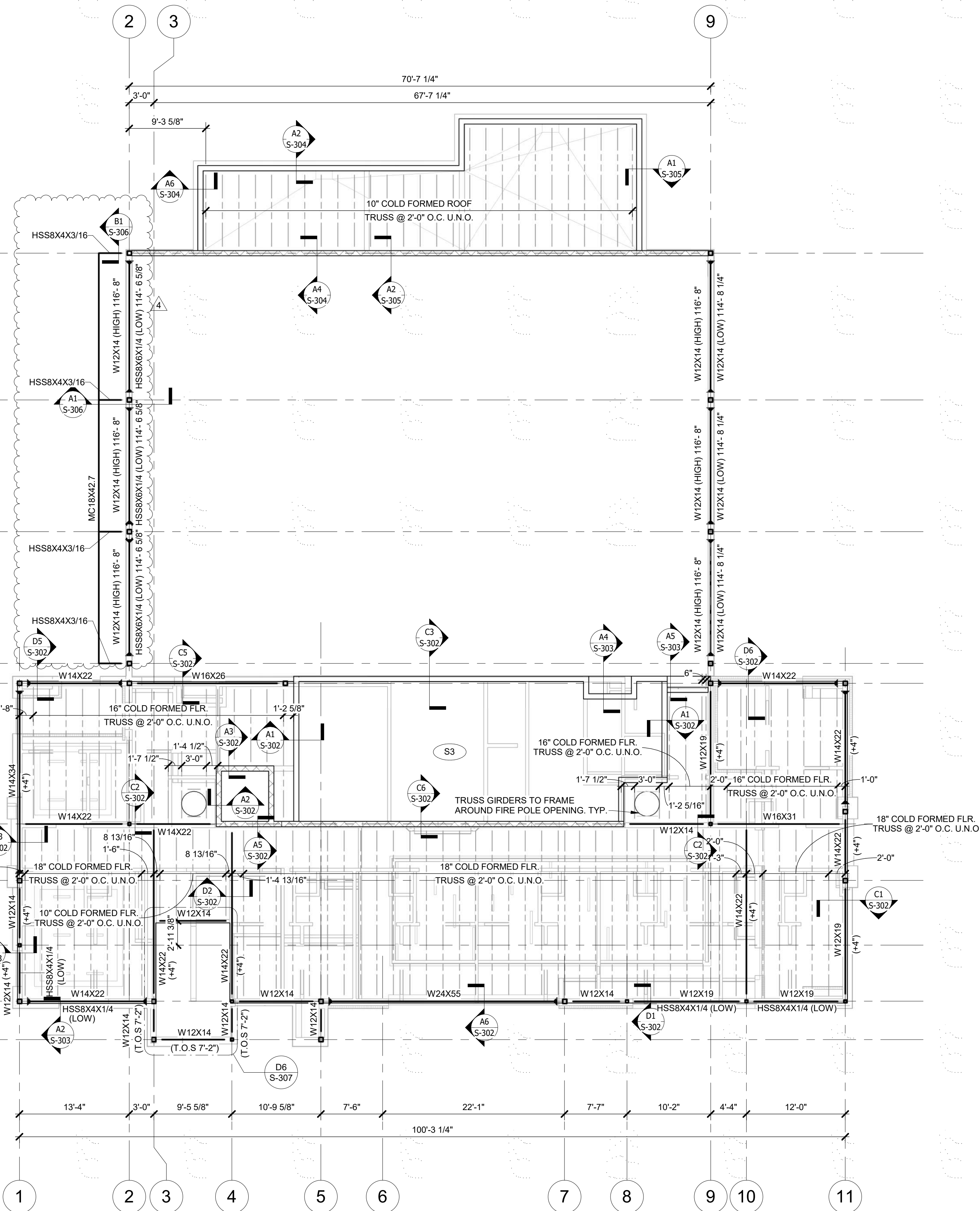
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A1 LEVEL 2 FRAMING PLAN
1/8" = 1'-0"

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 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 #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

#	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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LEVEL 2
FRAMING PLAN

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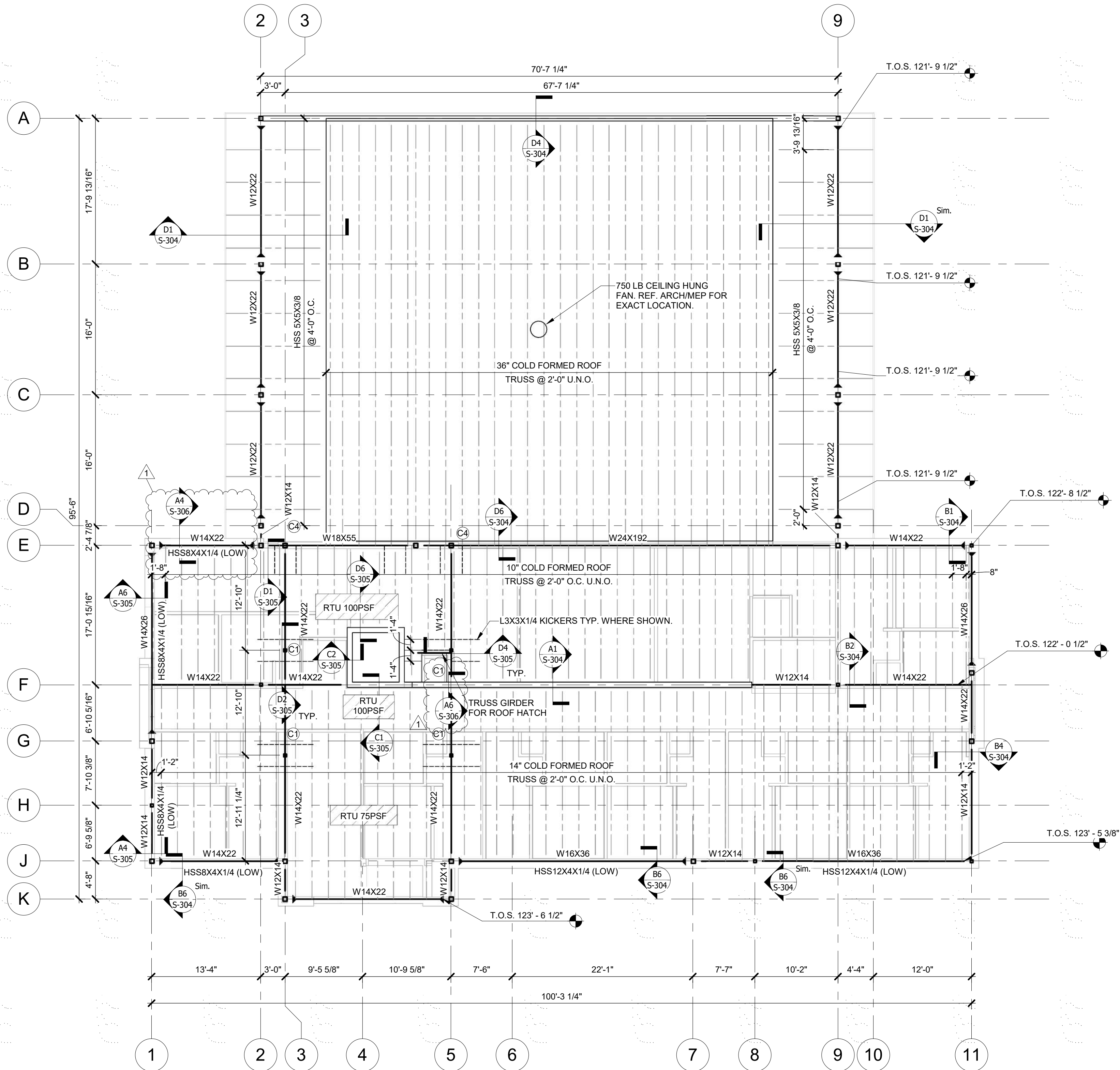
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ROOF FRAMING PLAN NOTES:

1. ROOF DECK TO BE 1.5B 20 GA. DECK FASTENED IN A 3/4\"/>

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



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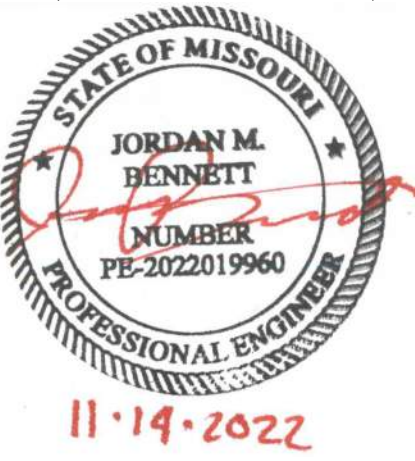
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FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

#	Description	Date
1	ASB 01	11/16/2022



PROJECT NO:	18225R21001
DATE:	11.16.2022
DRAWN BY:	JMB
CHKD BY:	WNH

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LOW ROOF
FRAMING PLAN

S-103

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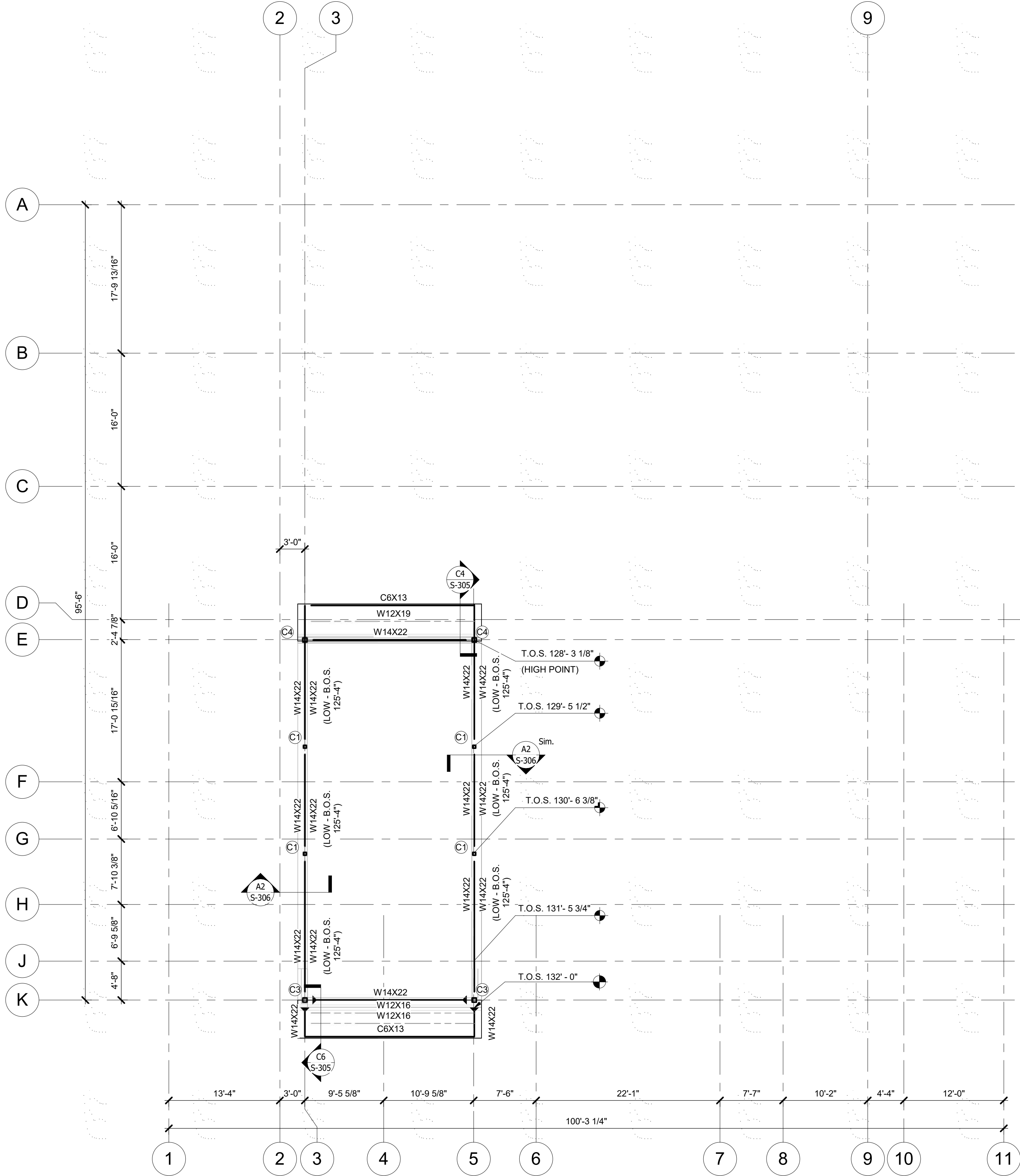
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ROOF FRAMING PLAN NOTES:

1. ROOF DECK TO BE 1.5B 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.



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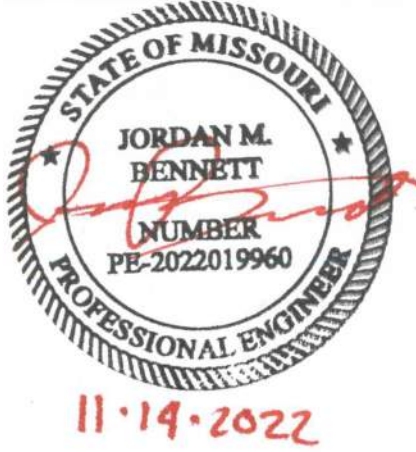
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CITY OF LEE'S SUMMIT

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LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
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PROJECT NO: 18225R21001
DATE: 11.16.2022
DRAWN BY: JMB
CHKD BY: WNH

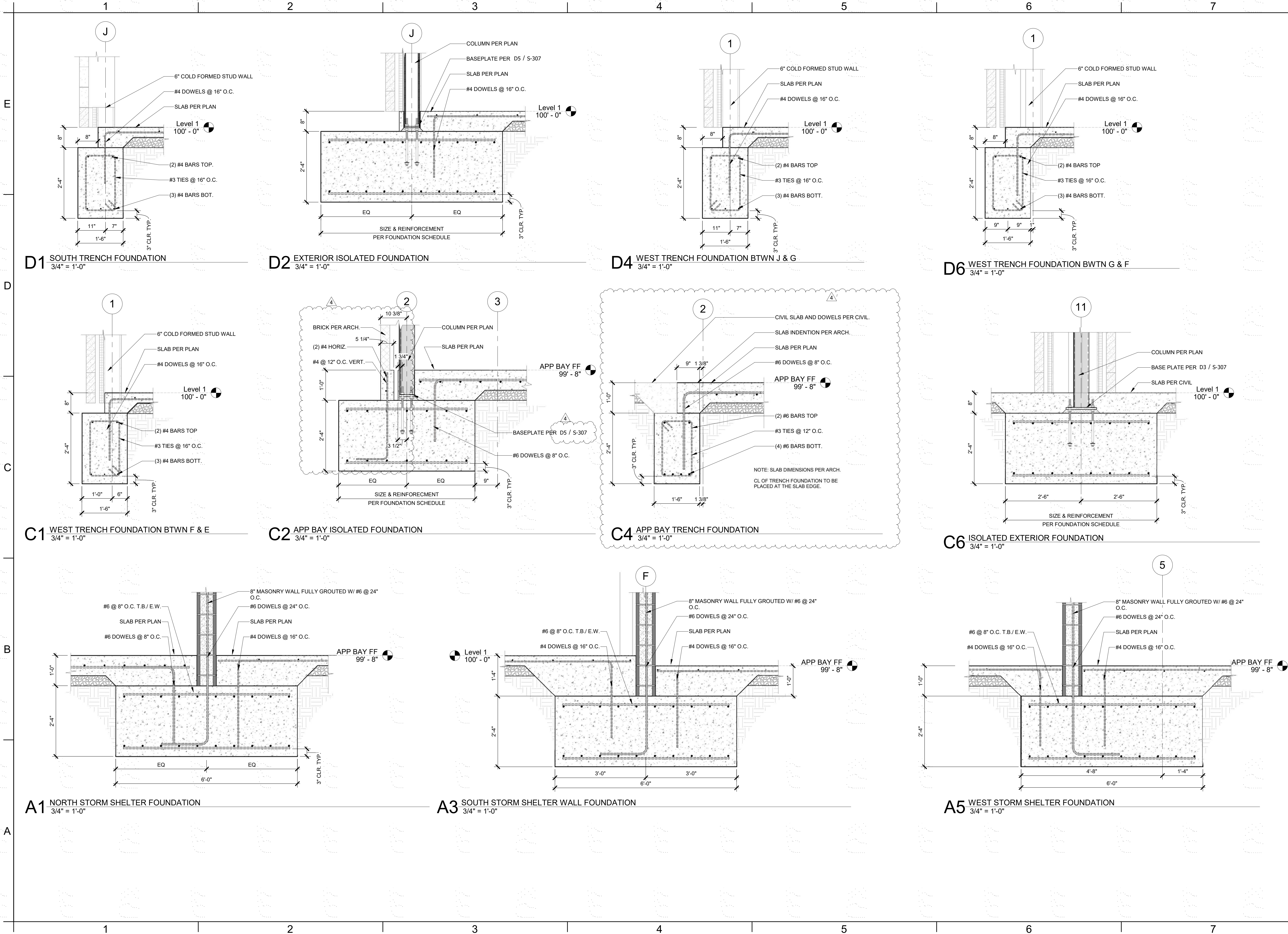
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**HIGH ROOF
FRAMING PLAN**

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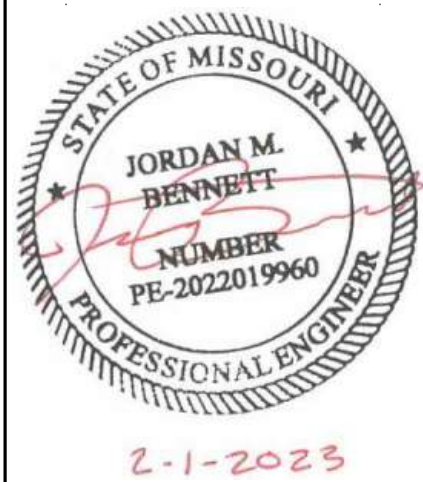
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HENDERSON ENGINEERS
MISSOURI COA #000556
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KANSAS CITY, MO 64108
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FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

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



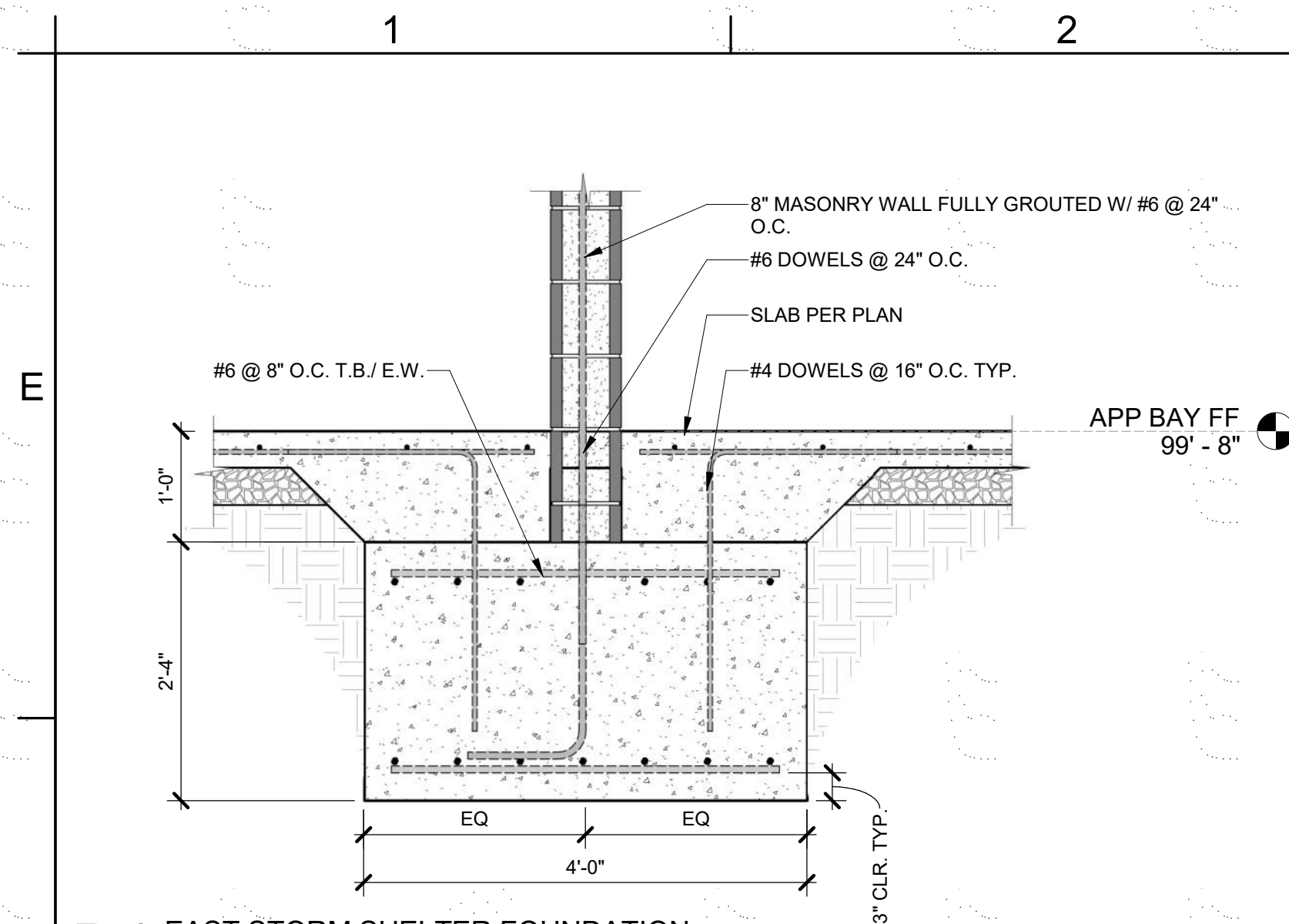
PROJECT NO: 18225R21001
DATE: 02/01/2023
DRAWN BY: JMB
CHKD BY: WNH

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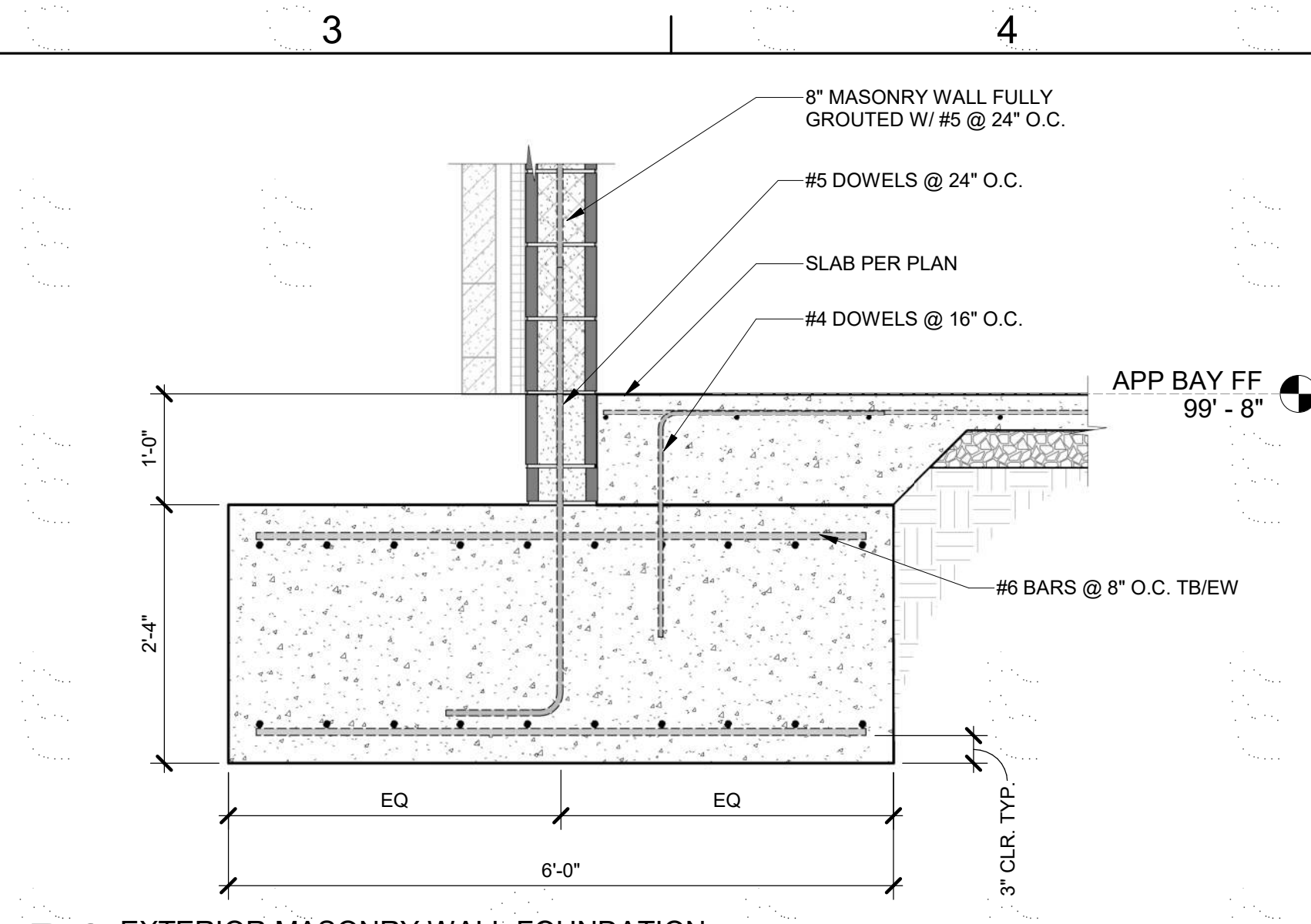
**FOUNDATION
SECTIONS**

S-300

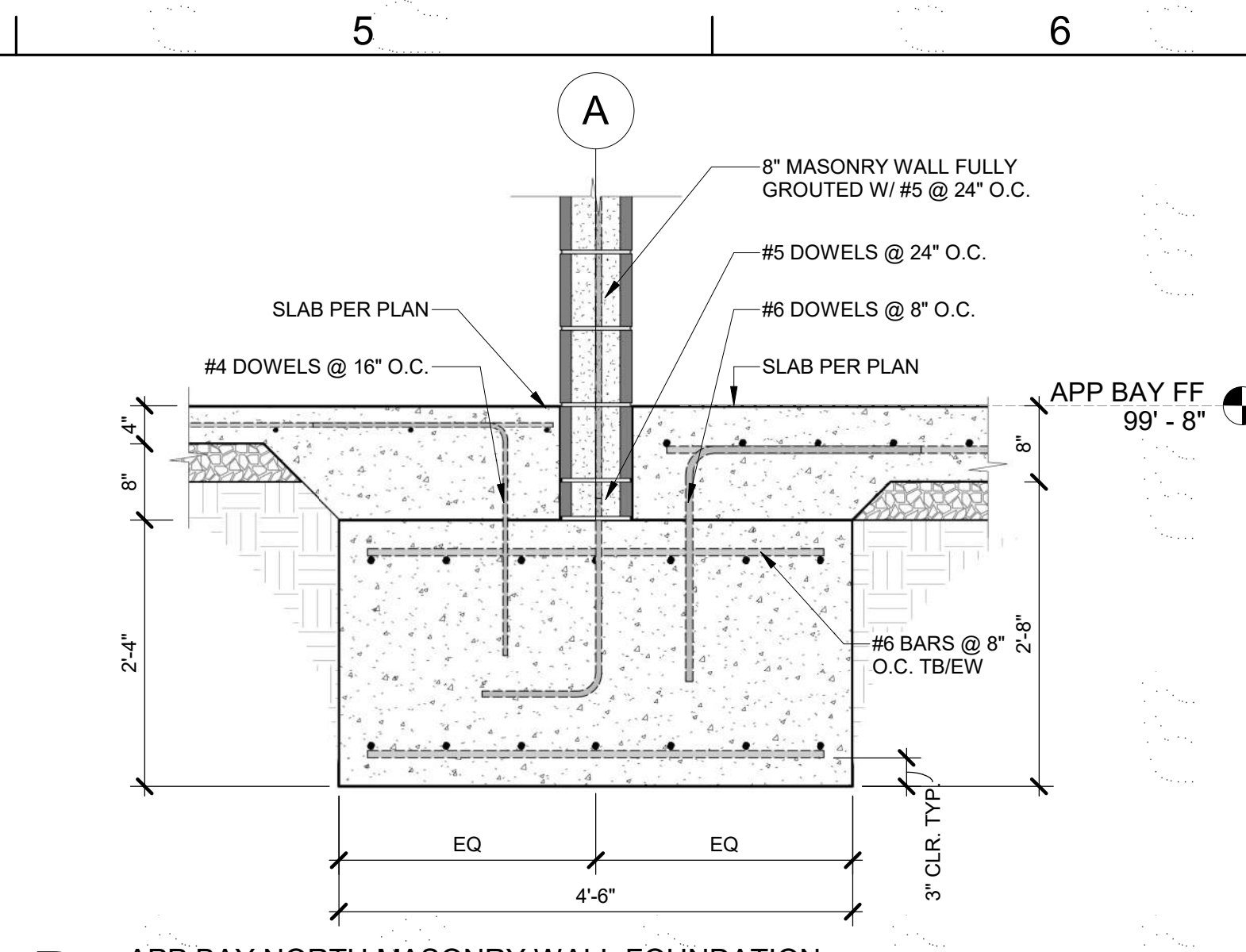
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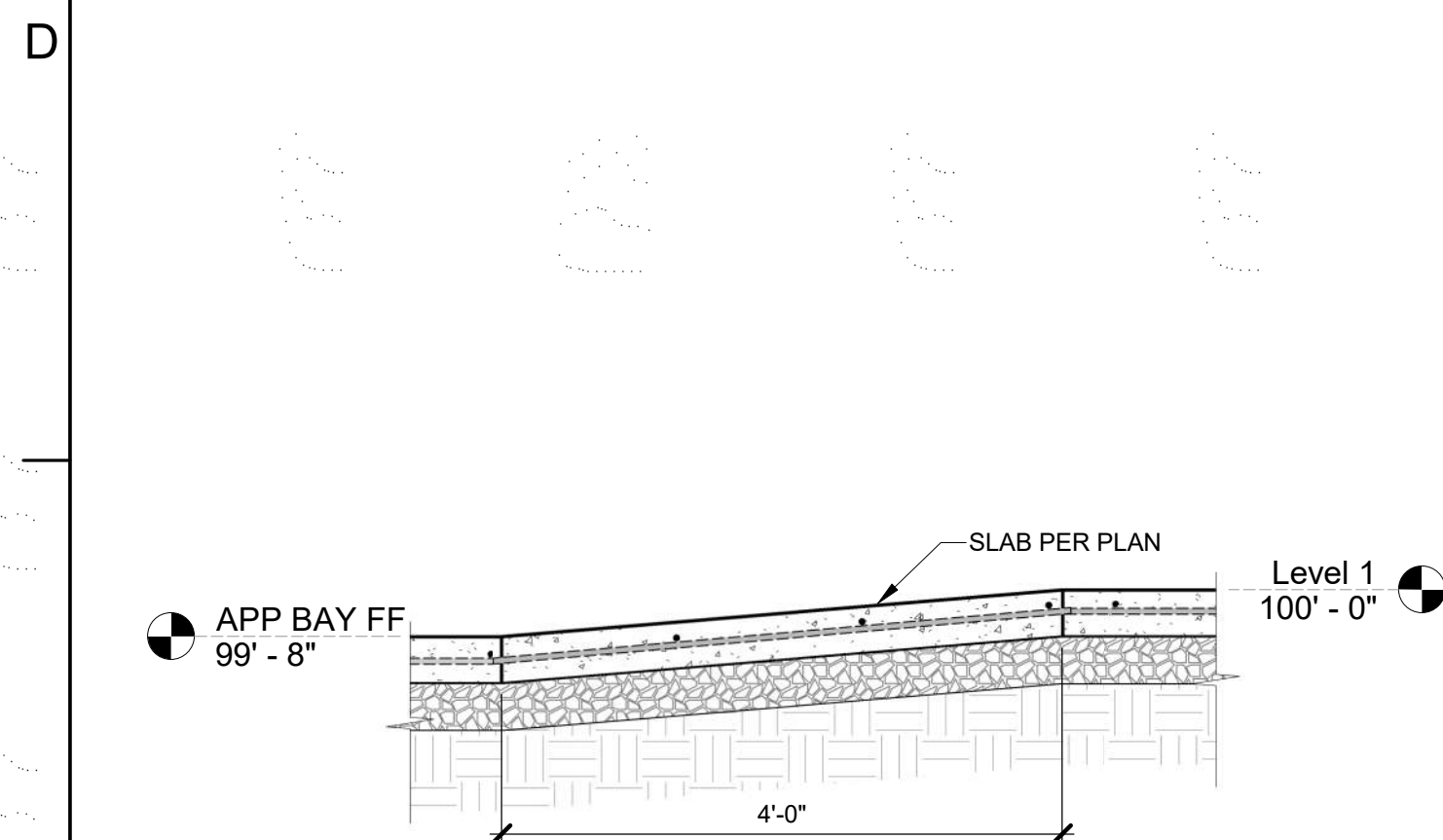
D1 EAST STORM SHELTER FOUNDATION
3/4" = 1'-0"



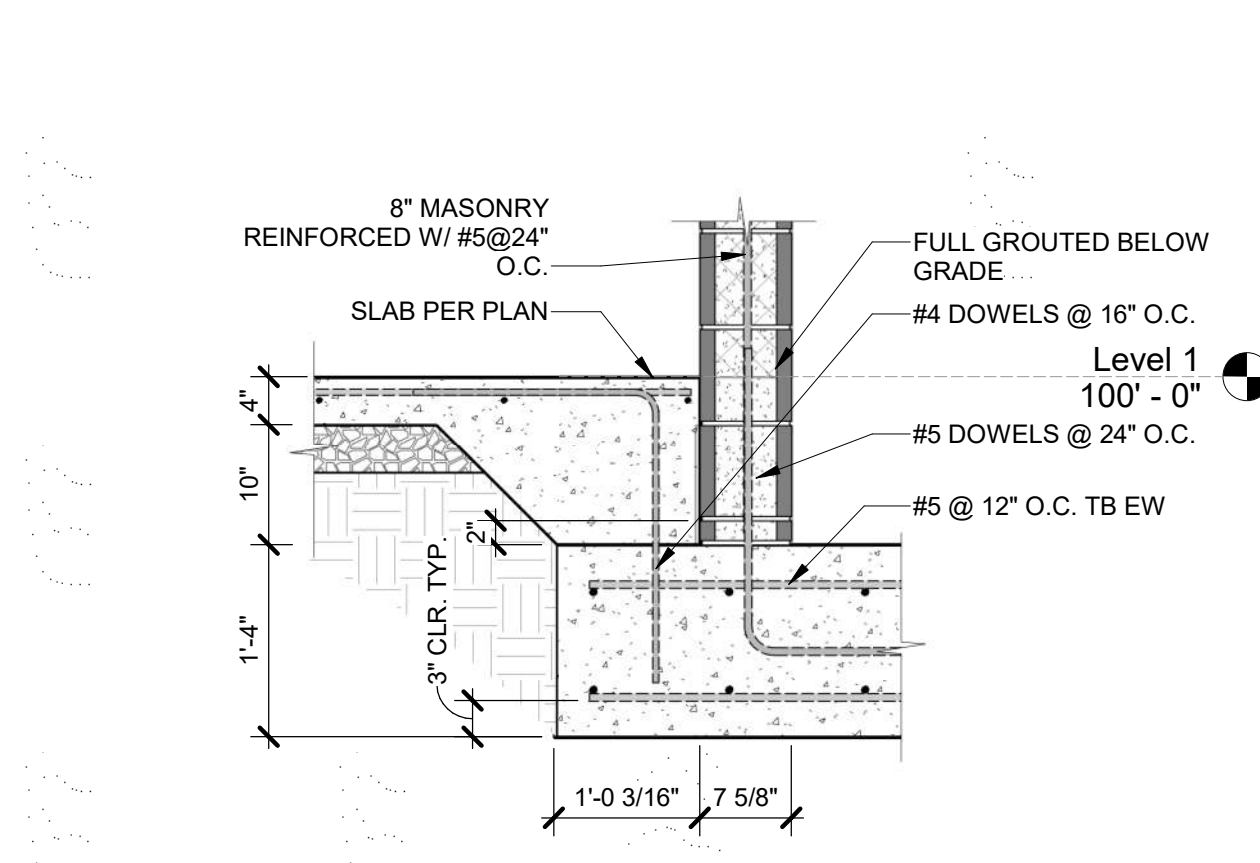
D3 EXTERIOR MASONRY WALL FOUNDATION
3/4" = 1'-0"



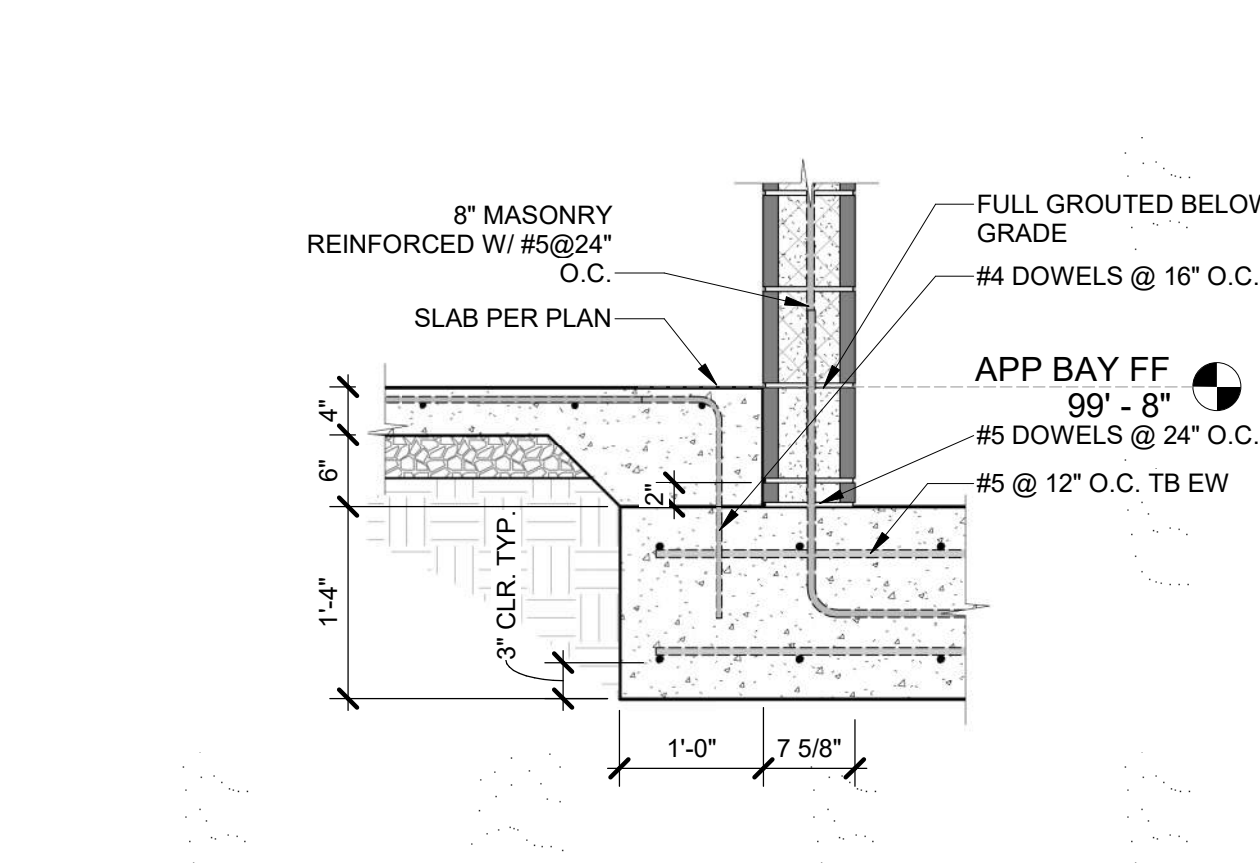
D5 APP BAY NORTH MASONRY WALL FOUNDATION
3/4" = 1'-0"



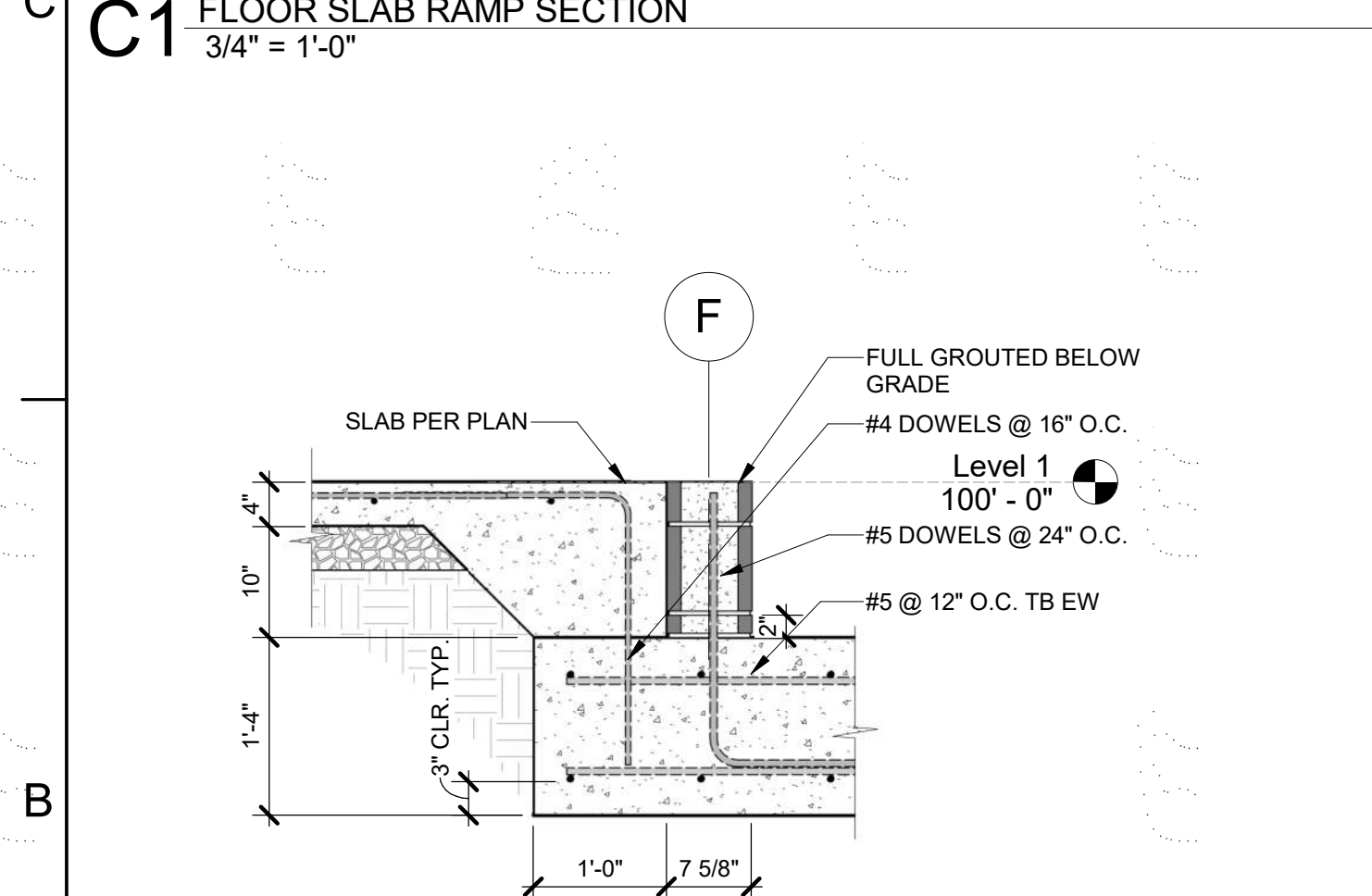
C1 FLOOR SLAB RAMP SECTION
3/4" = 1'-0"



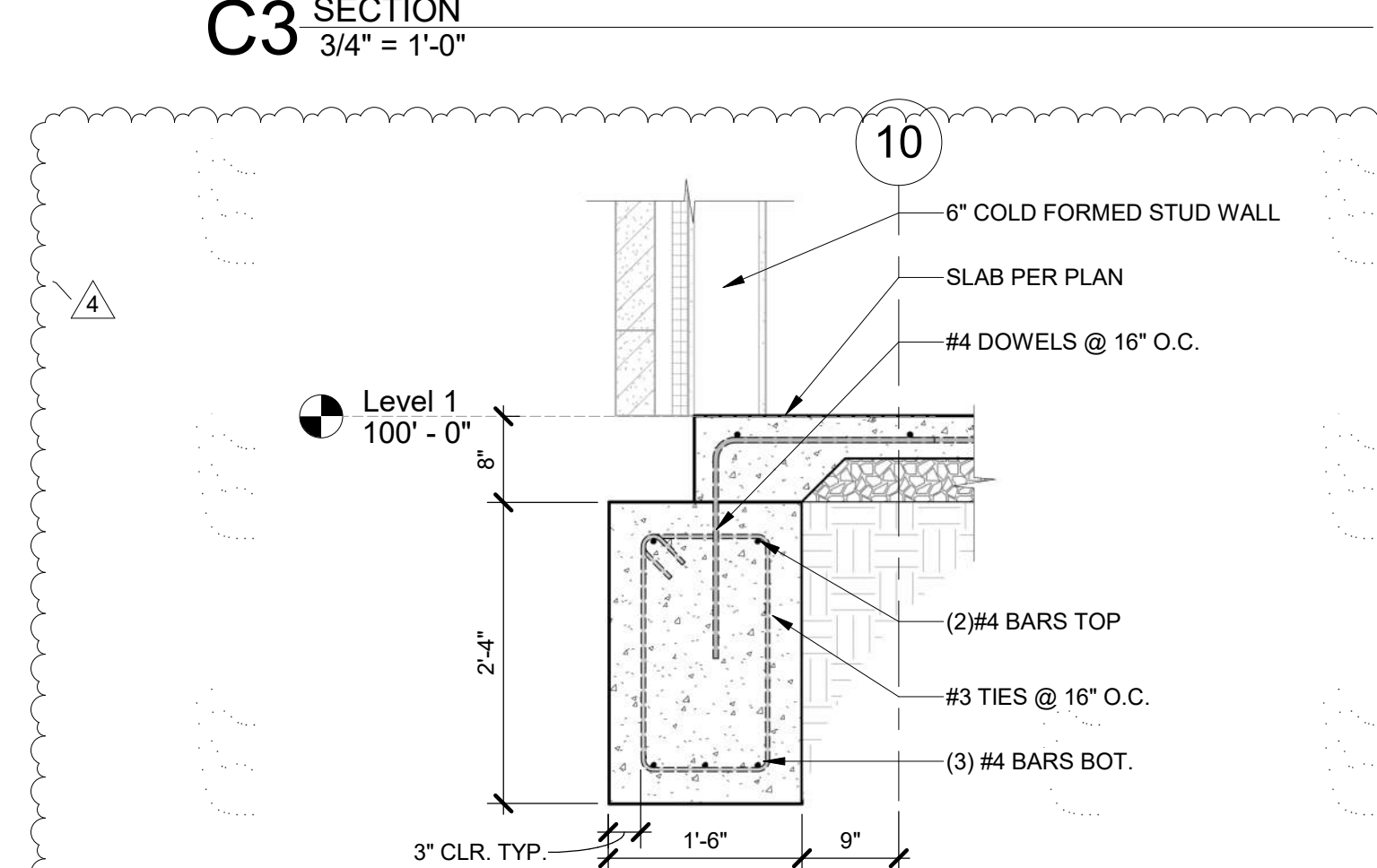
C3 SECTION
3/4" = 1'-0"



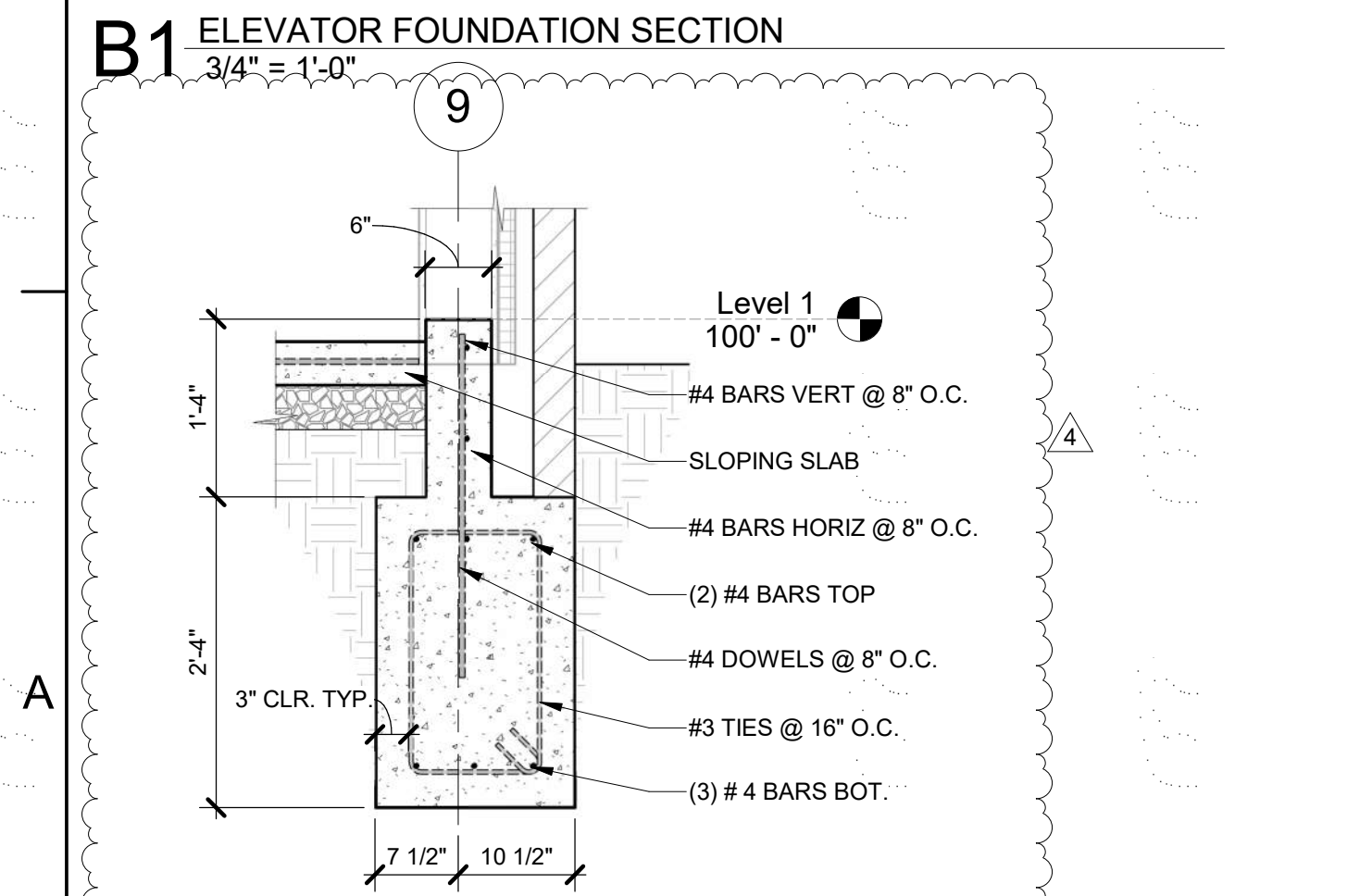
C5 SECTION
3/4" = 1'-0"



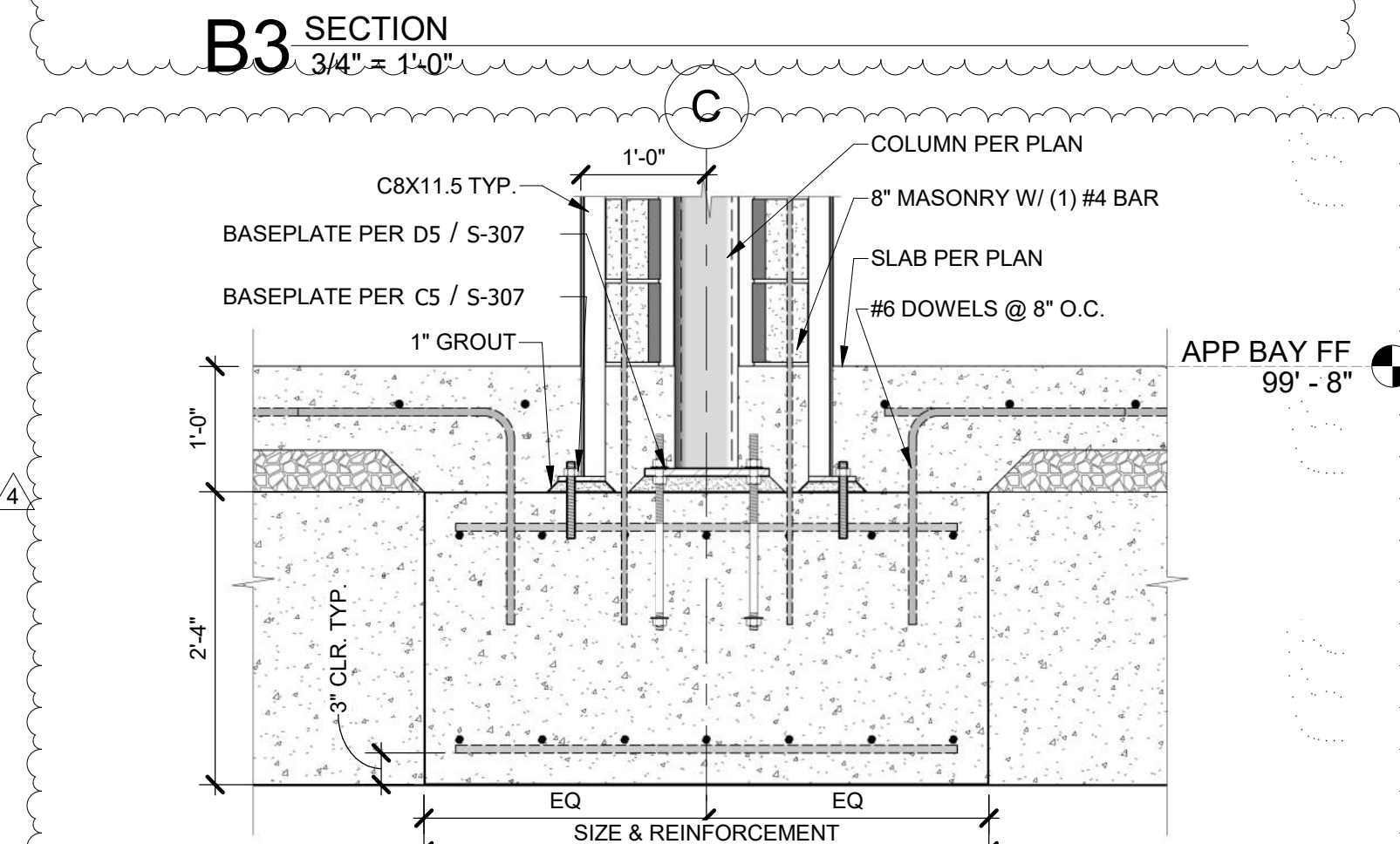
B1 ELEVATOR FOUNDATION SECTION
3/4" = 1'-0"



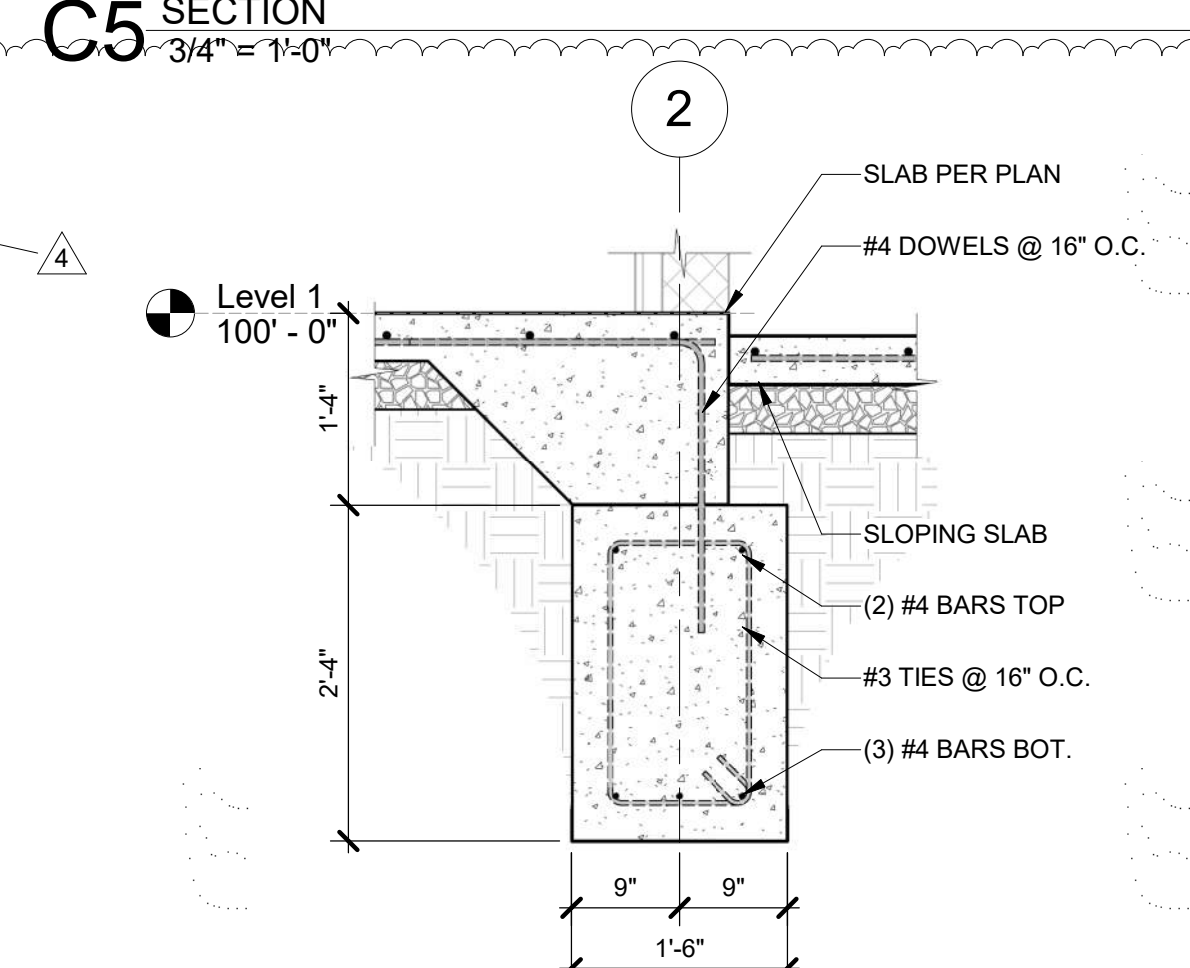
B3 SECTION
3/4" = 1'-0"



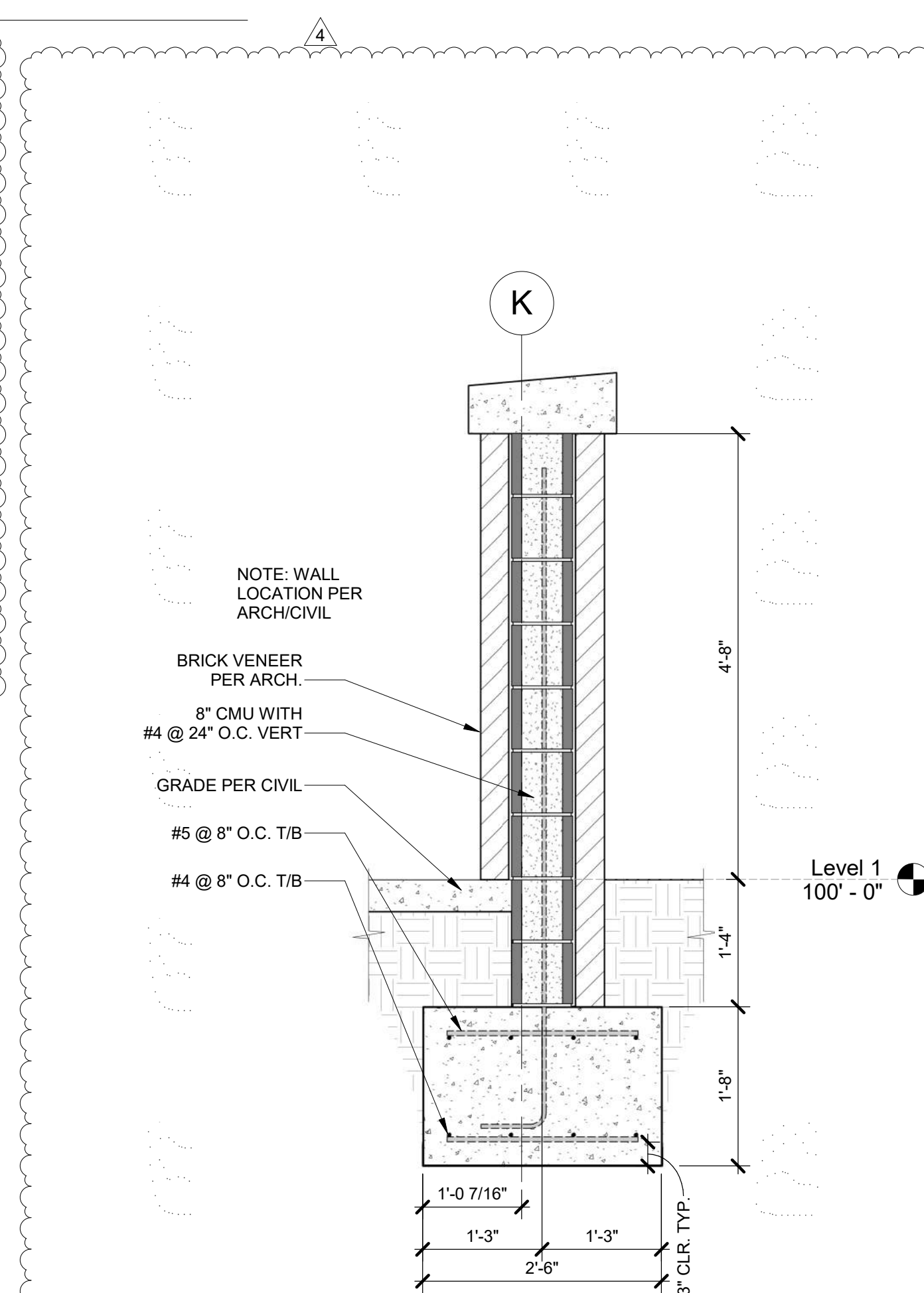
A1 SECTION
3/4" = 1'-0"



A3 APP BAY COLUMN DETAIL
3/4" = 1'-0"



B5 SECTION
3/4" = 1'-0"



A6 SCREEN WALL
2'4" = 1'0"



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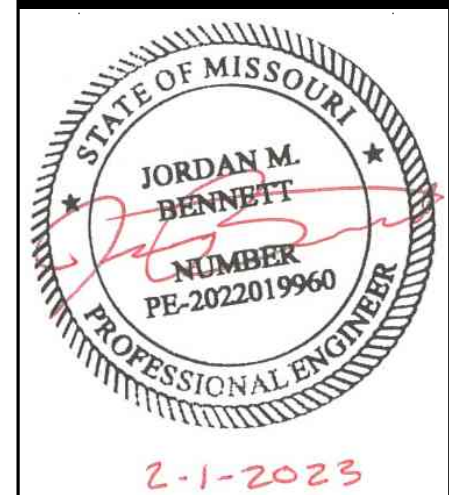
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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
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ISSUED FOR CONSTRUCTION

#	Description	Date
4	Rev 04 - ASI04	02/01/2023



PROJECT NO:	18225R2100
DATE:	02/01/2023
DRAWN BY:	JMB
CHK'D BY:	WNH

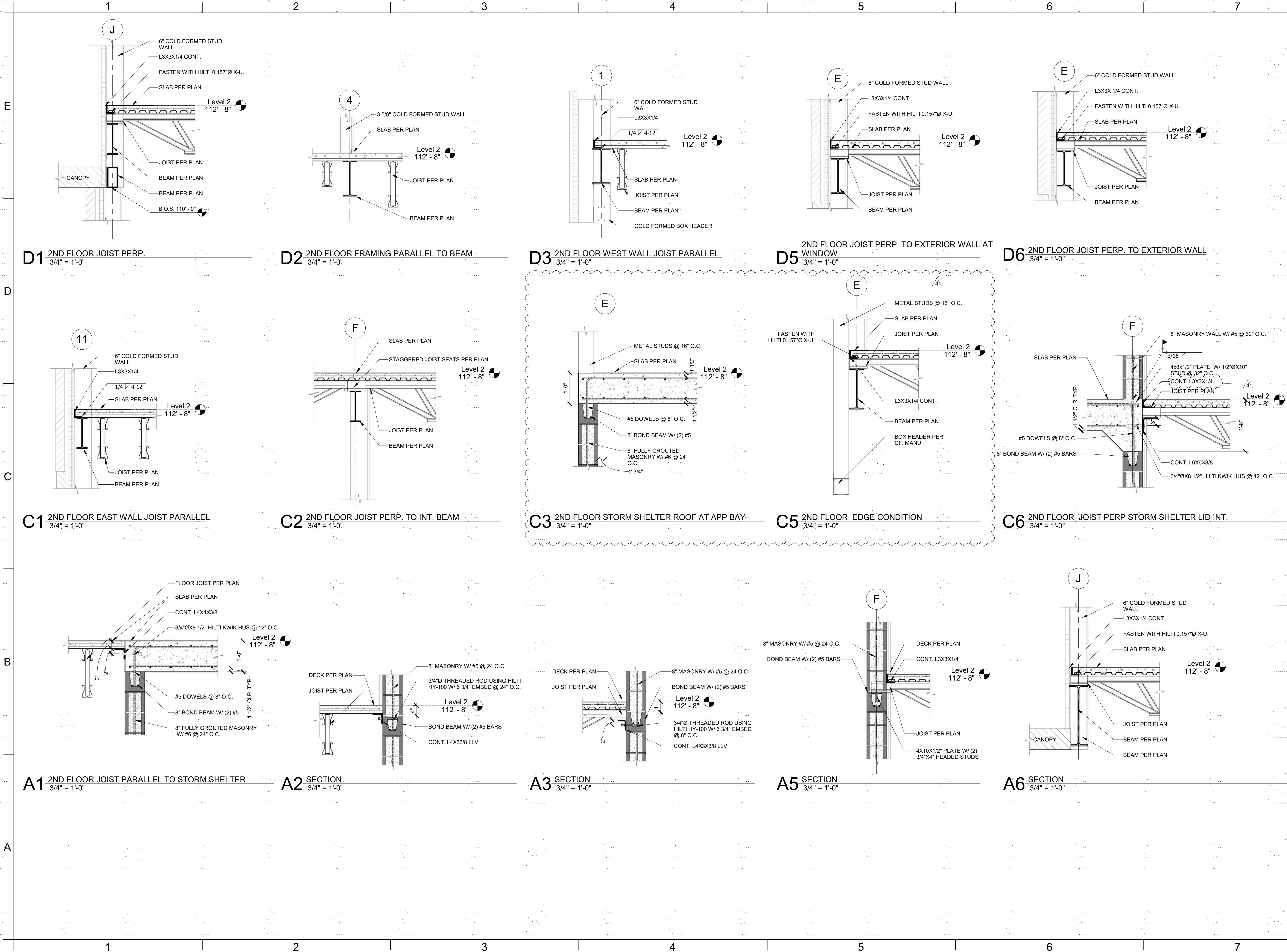
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FOUNDATION SECTIONS

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CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
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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
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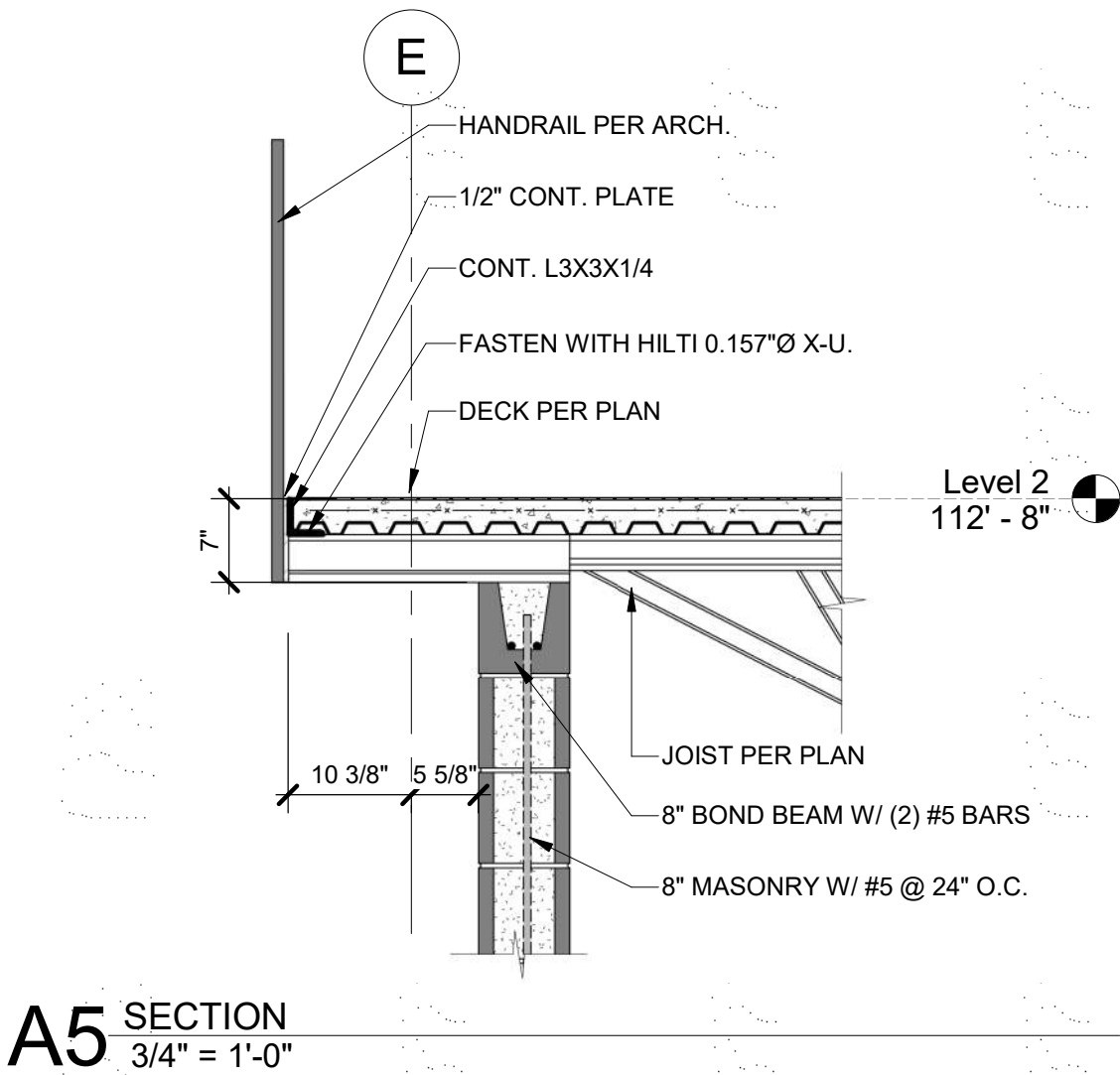
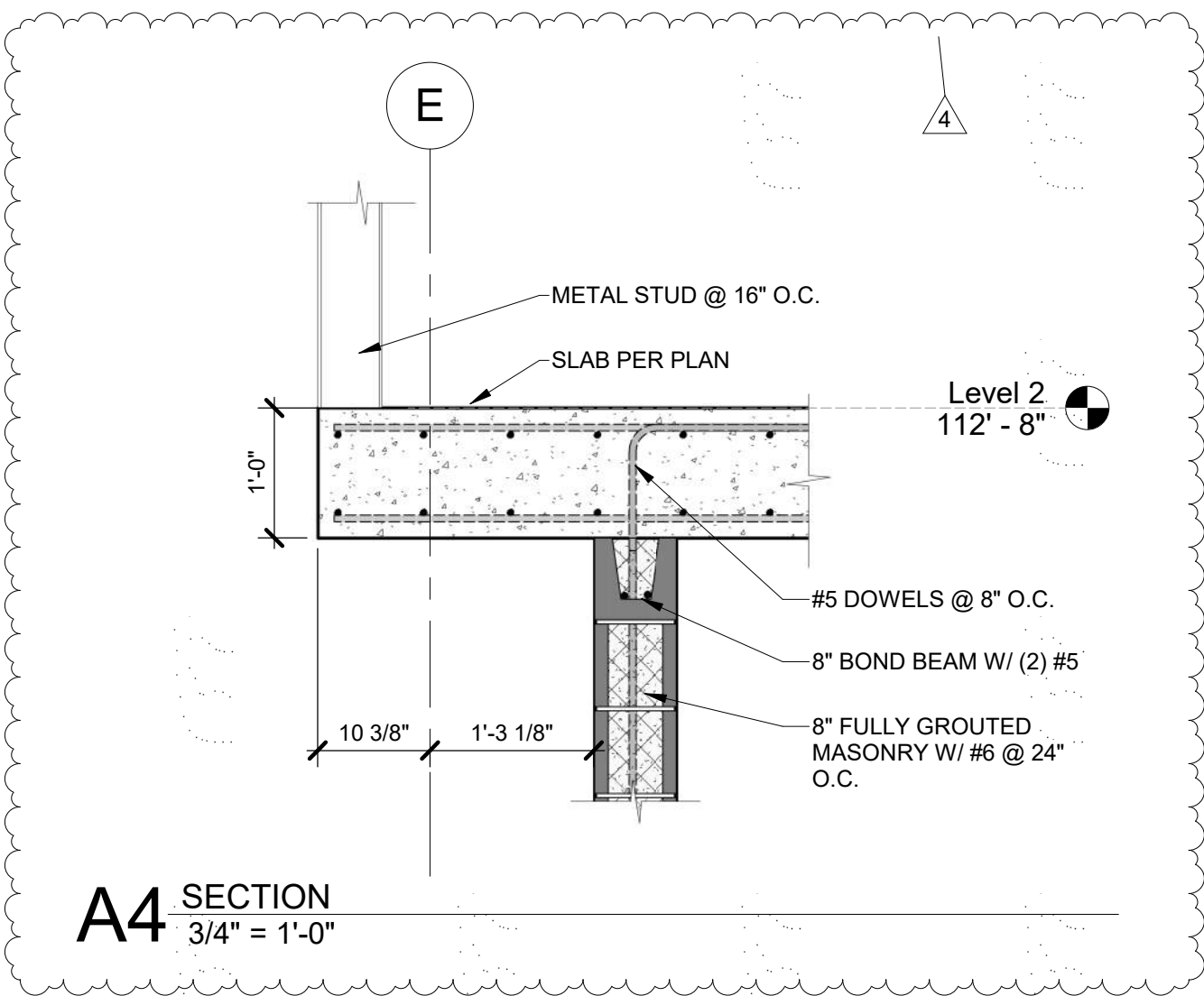
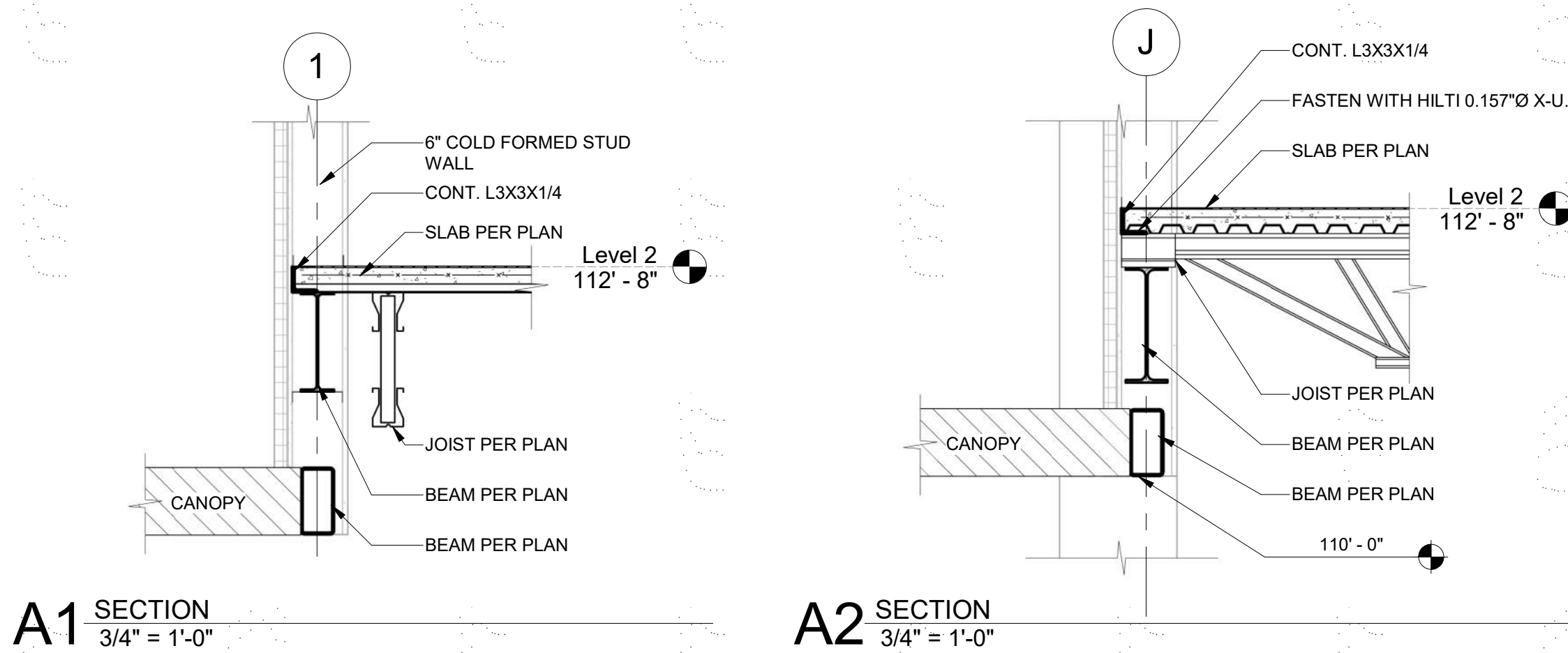
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FIRE STATION #4
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5031 NORTHEAST LAKEWOOD WAY
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#	Description	Date
4	Rev 04 - ASB04	02/01/2023



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

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E

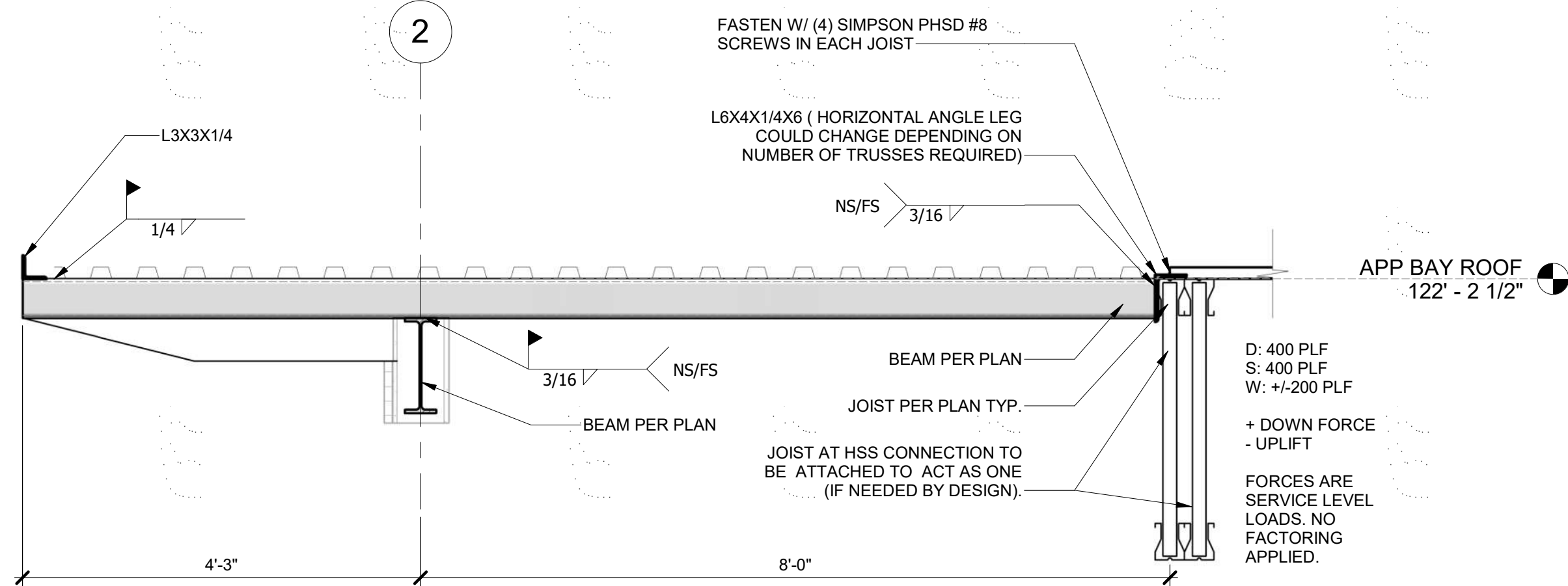
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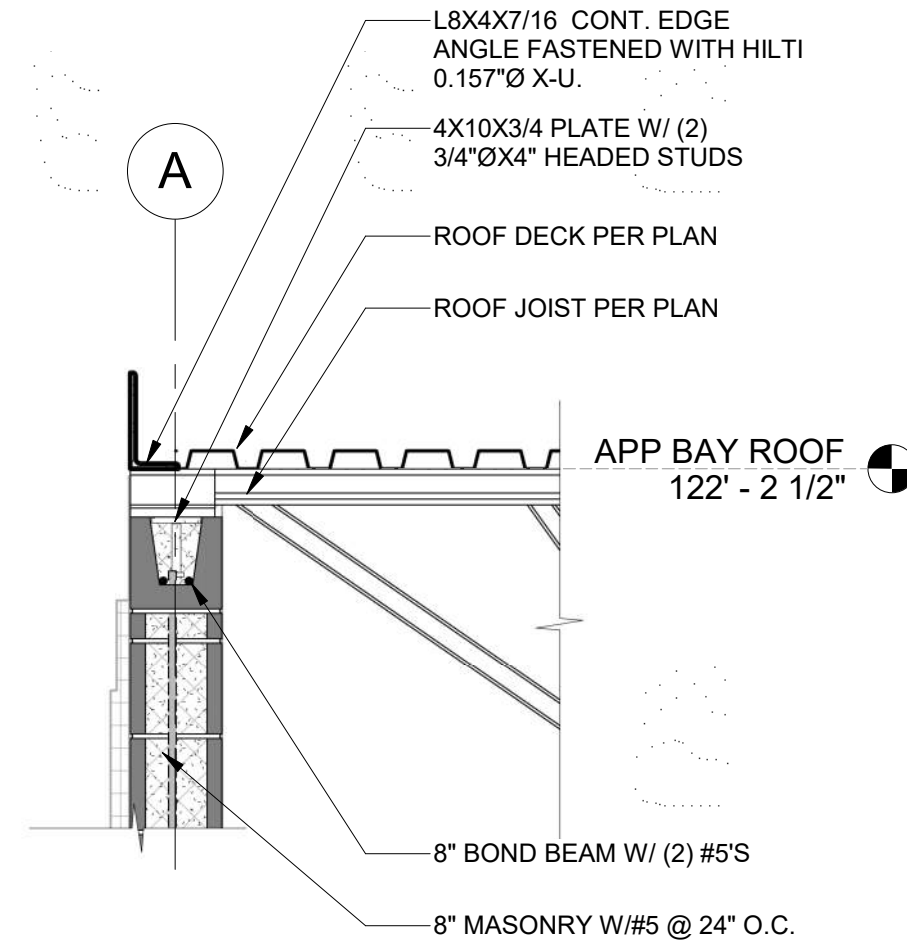
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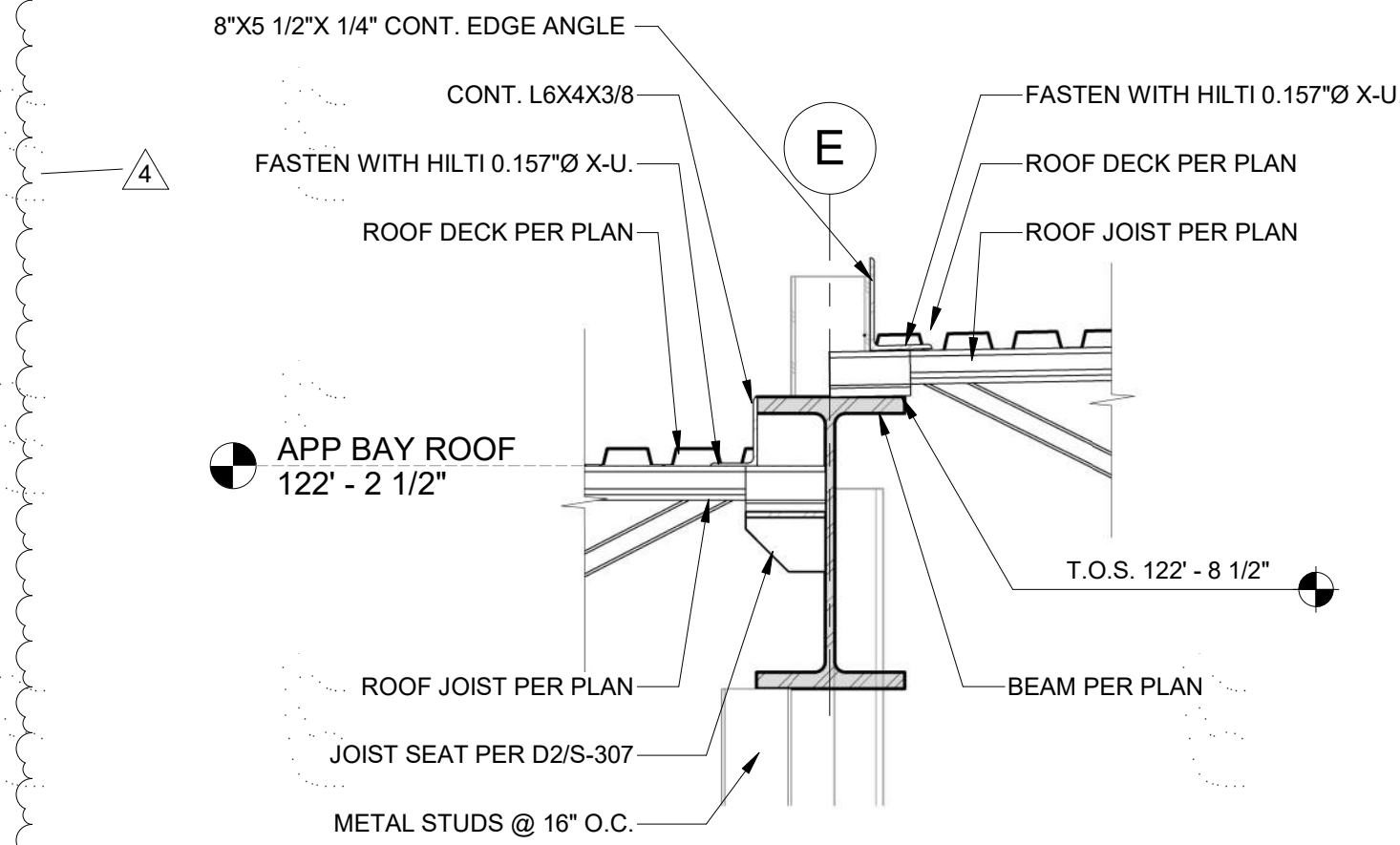
D1 APP BAY ROOF EDGE CONDITION
3/4" = 1'-0"



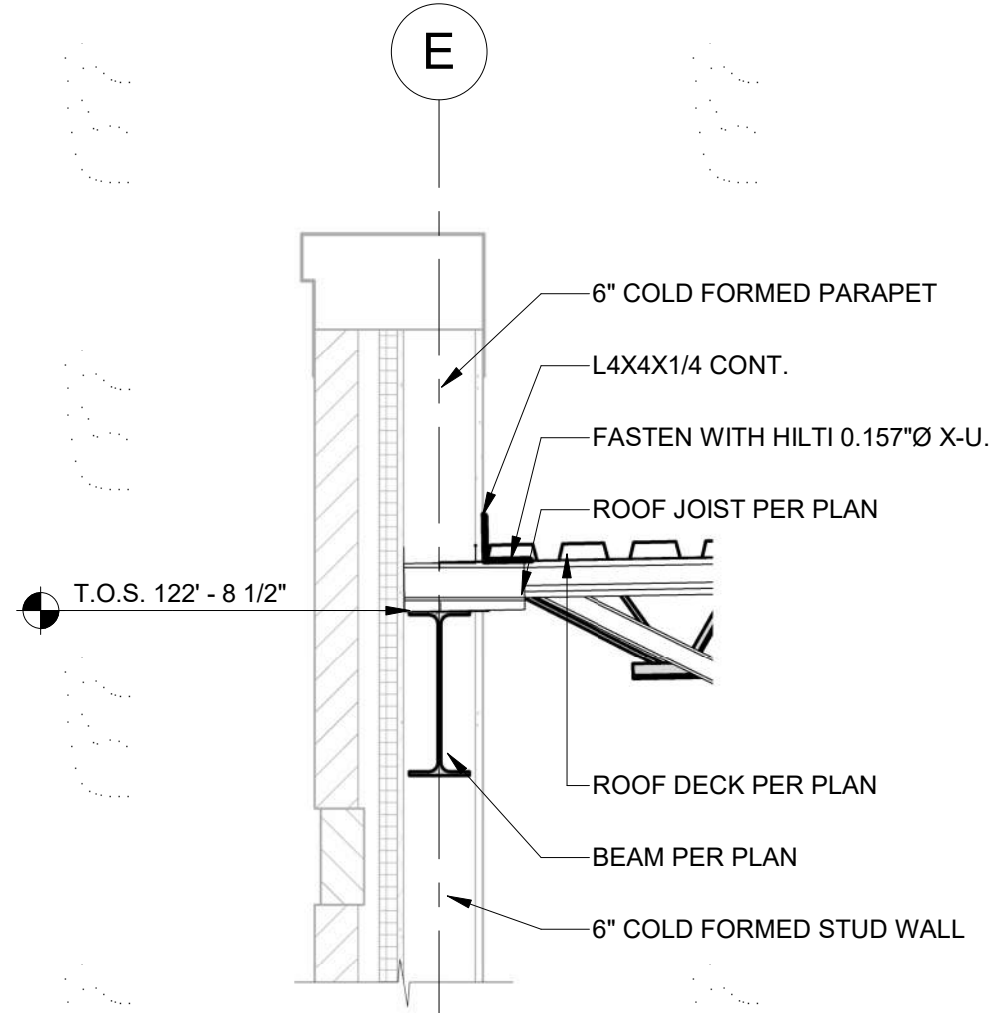
D4 APP BAY ROOF JOIST PERP. TO MASONRY
3/4" = 1'-0"



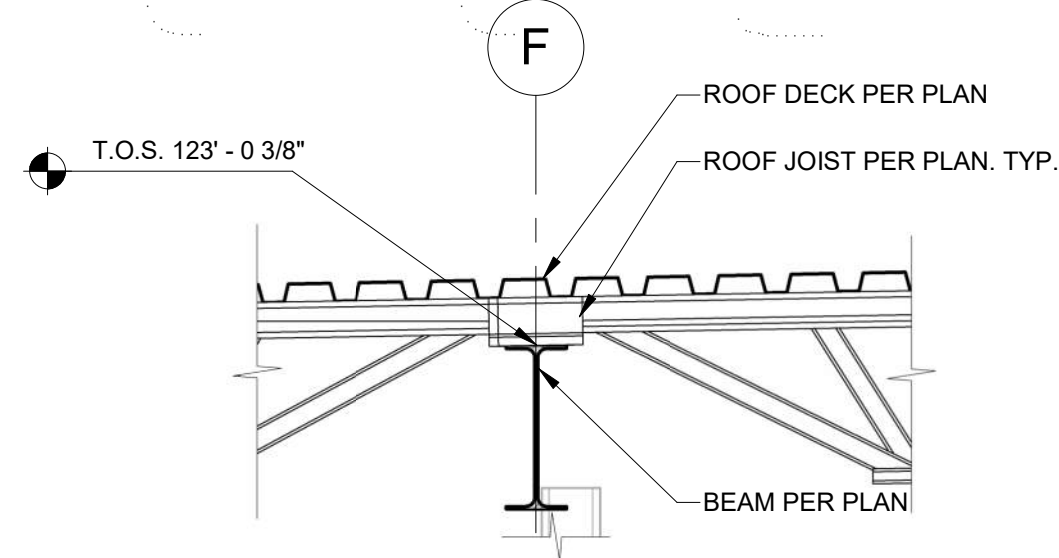
D6 APP BAY ROOF SOUTH BEARING LINE
3/4" = 1'-0"



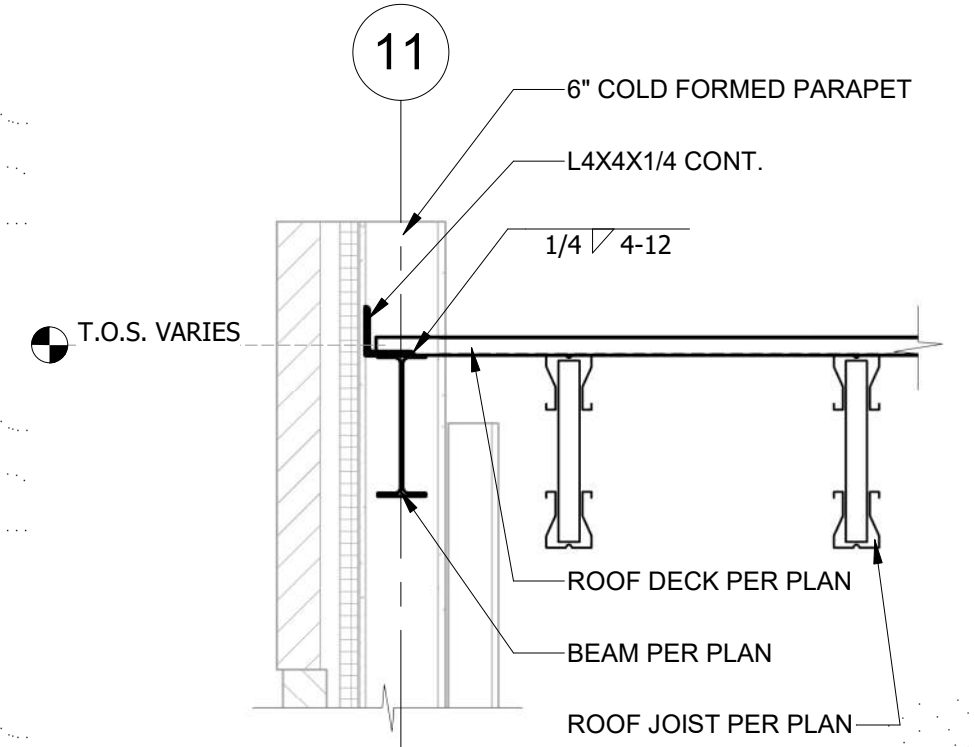
B1 ROOF FRAMING PERP. NOT AT APP BAY NORTH
3/4" = 1'-0"



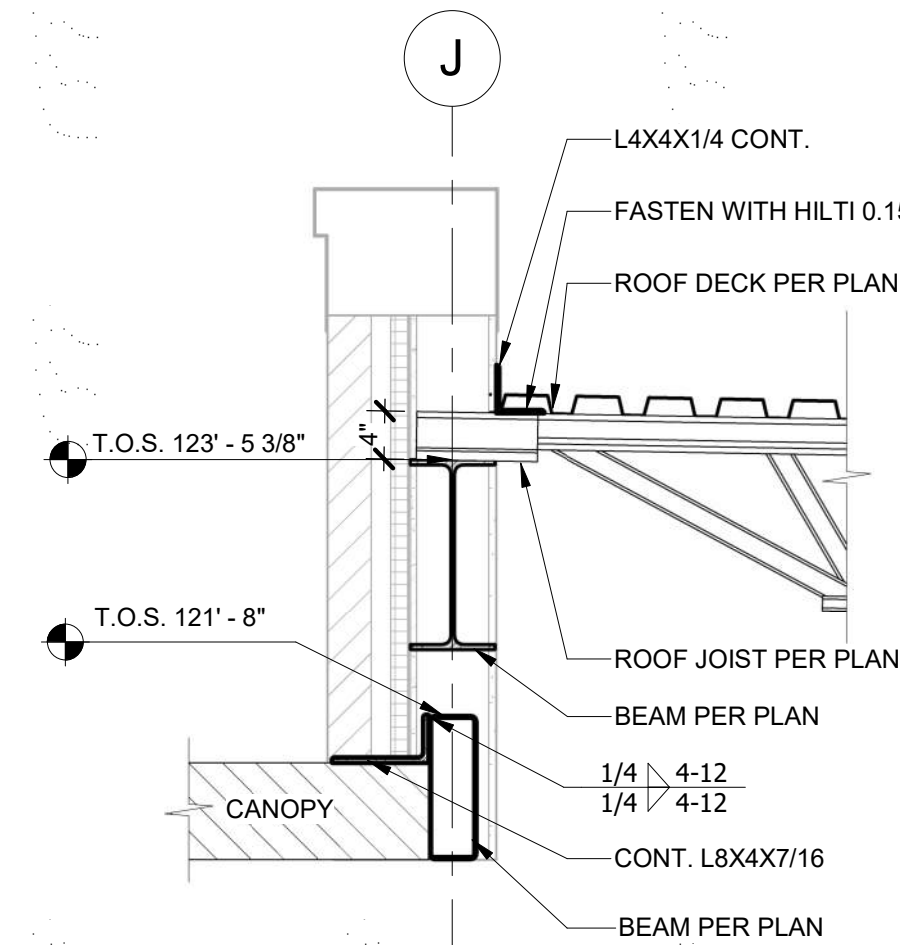
B2 ROOF INTERIOR BEAM BEARING LINE
3/4" = 1'-0"



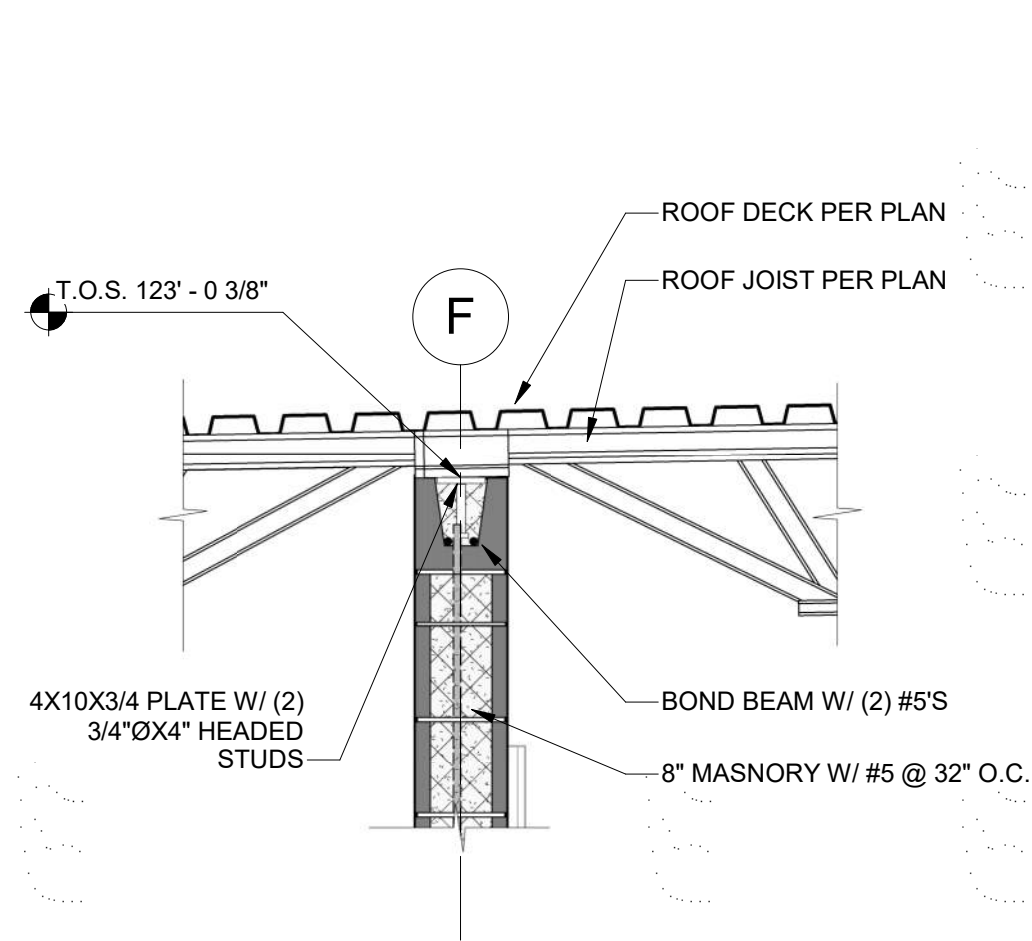
B4 ROOF FRAMING PARALLEL
3/4" = 1'-0"



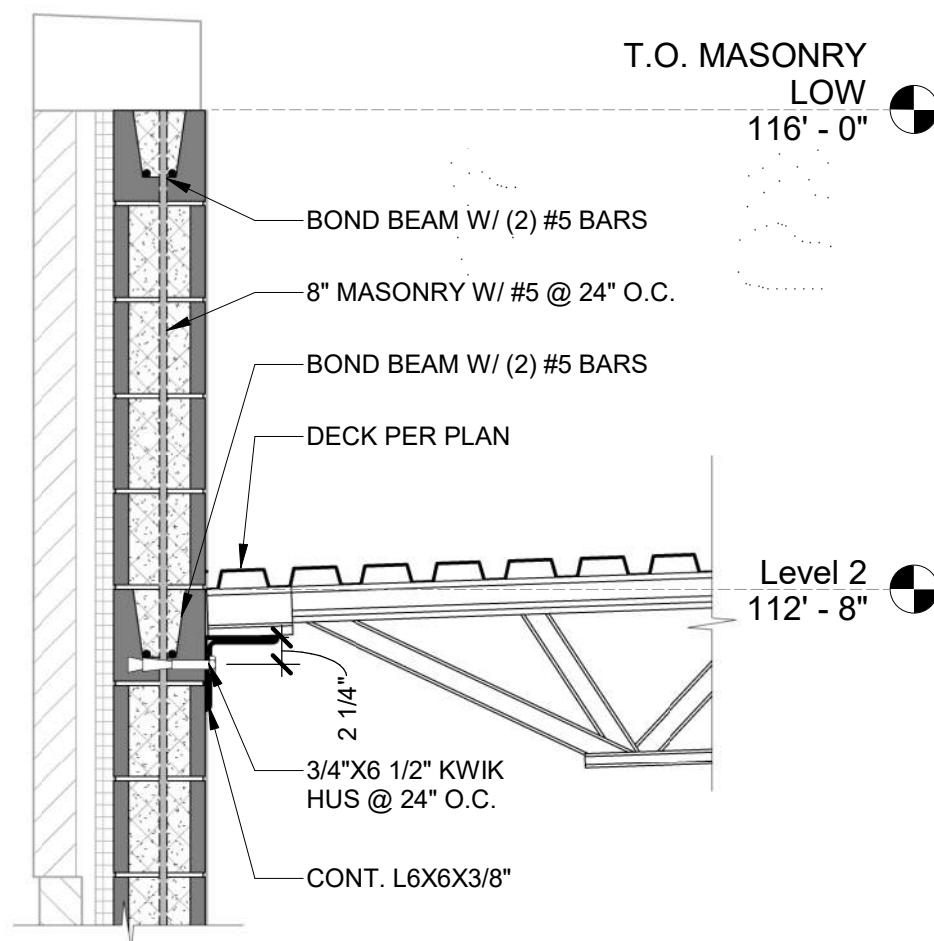
B6 ROOF FRAMING PERP. SOUTH SIDE
3/4" = 1'-0"



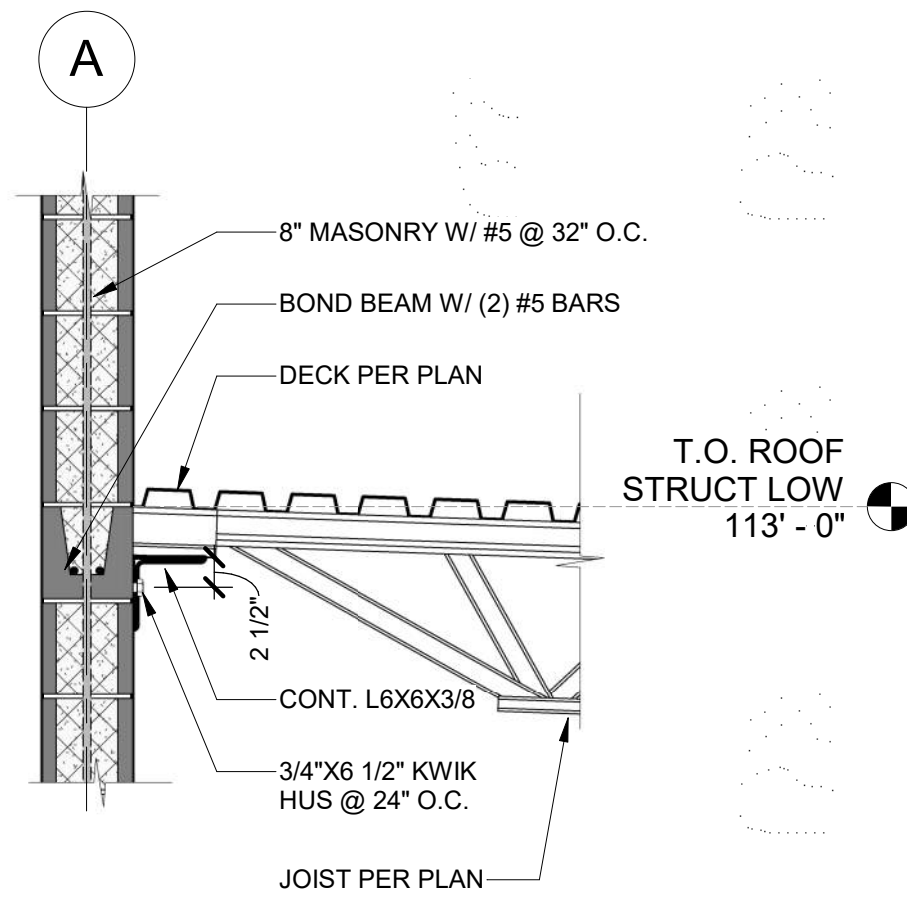
A1 ROOF FRAMING BEARING ON INT. MASONRY WALL
3/4" = 1'-0"



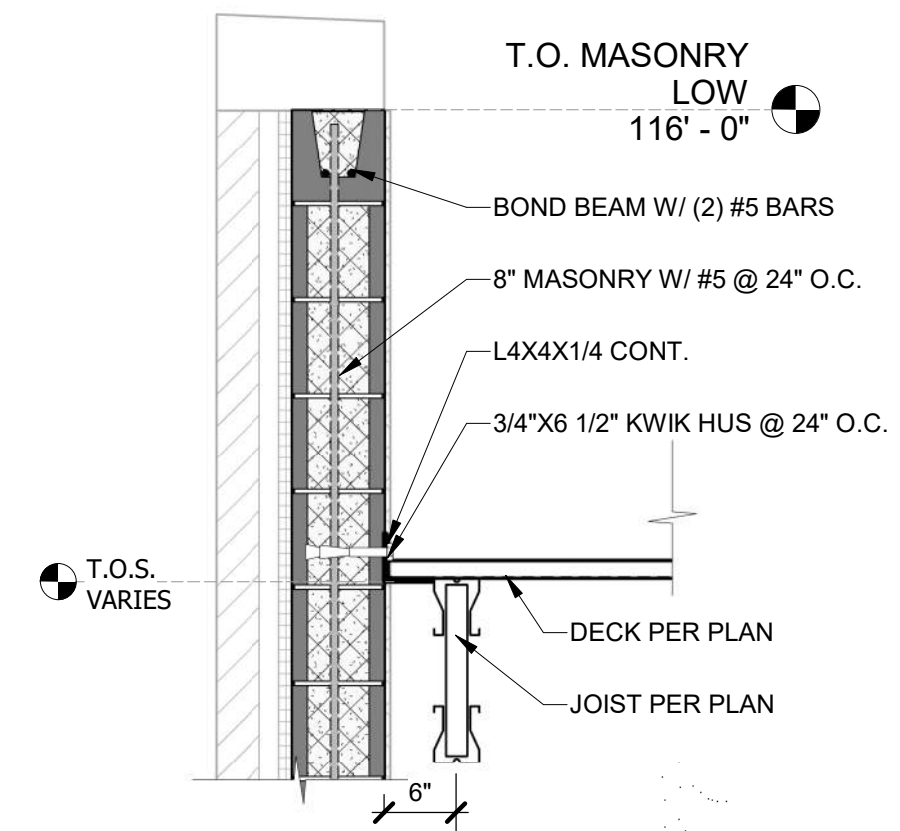
A2 NORTH CMU WALL @ FITNESS CENTER
3/4" = 1'-0"



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



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



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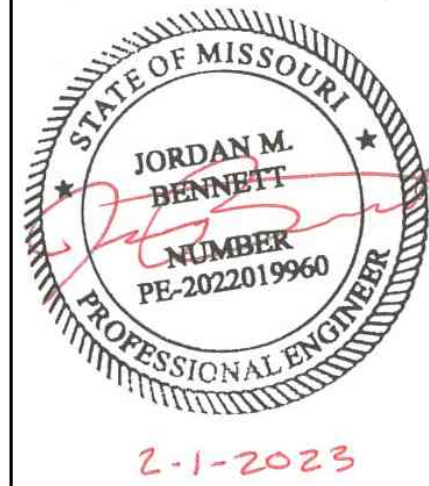
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FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

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
DRAWN BY: JMB
CHKD BY: WNH

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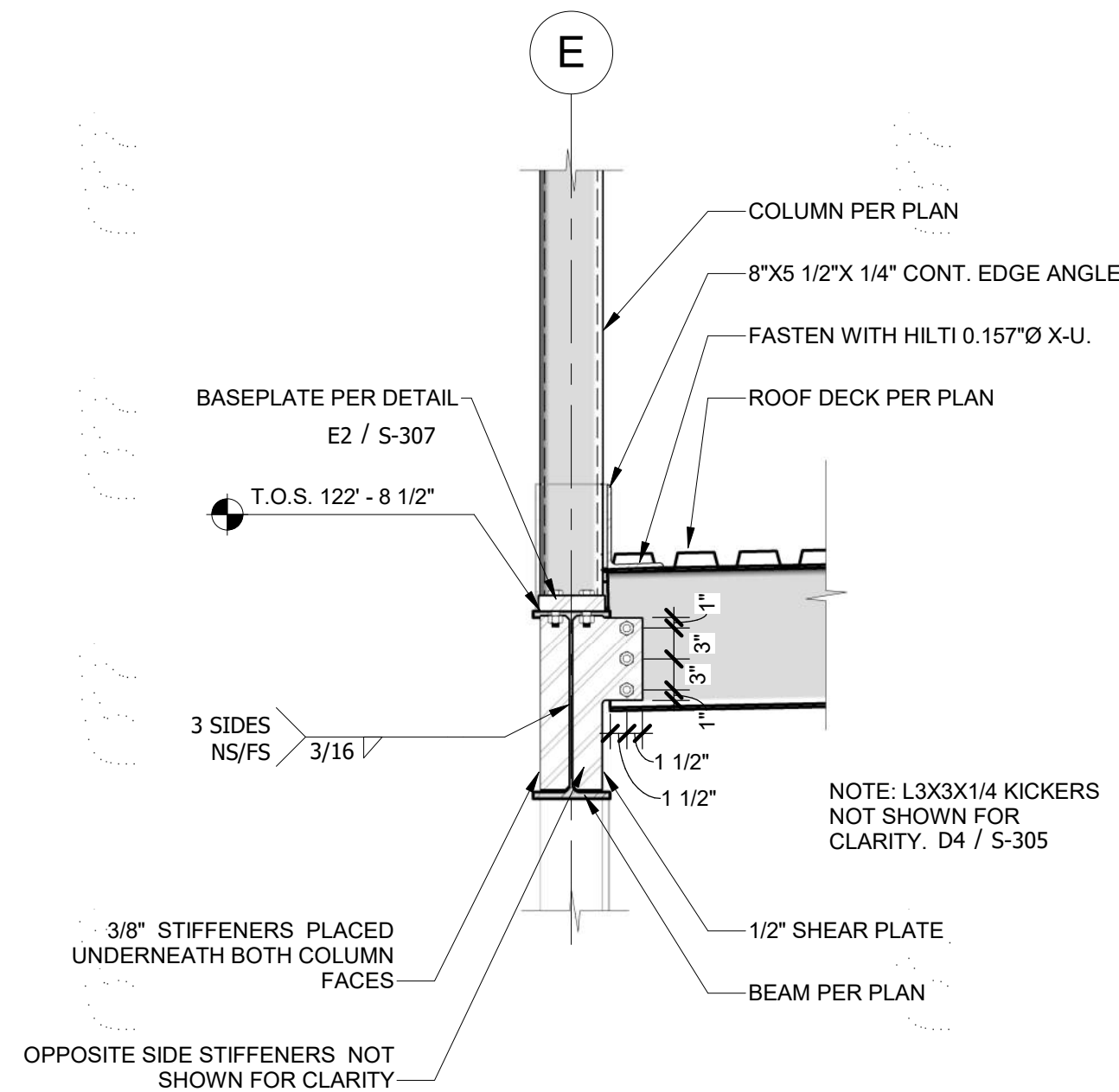
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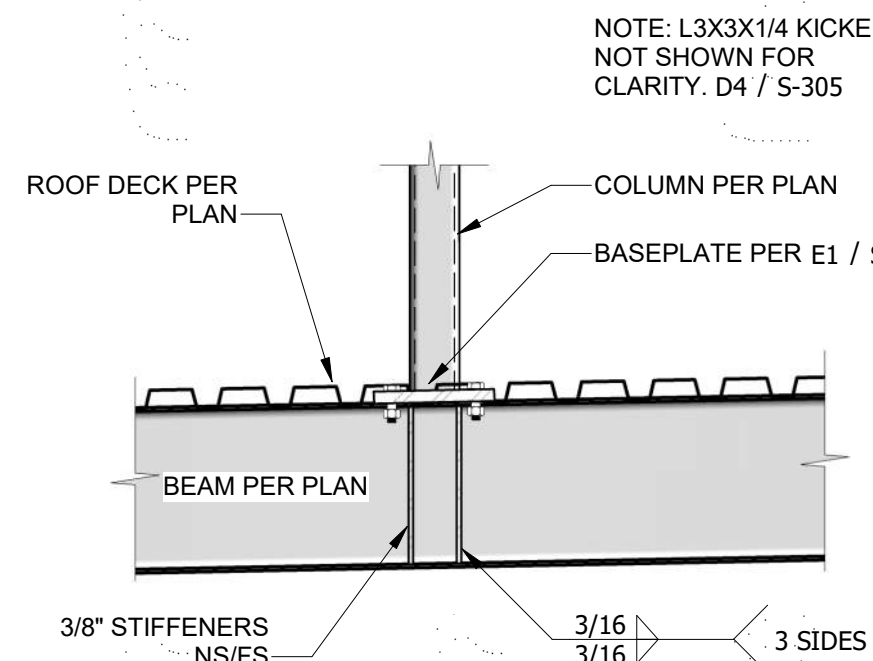
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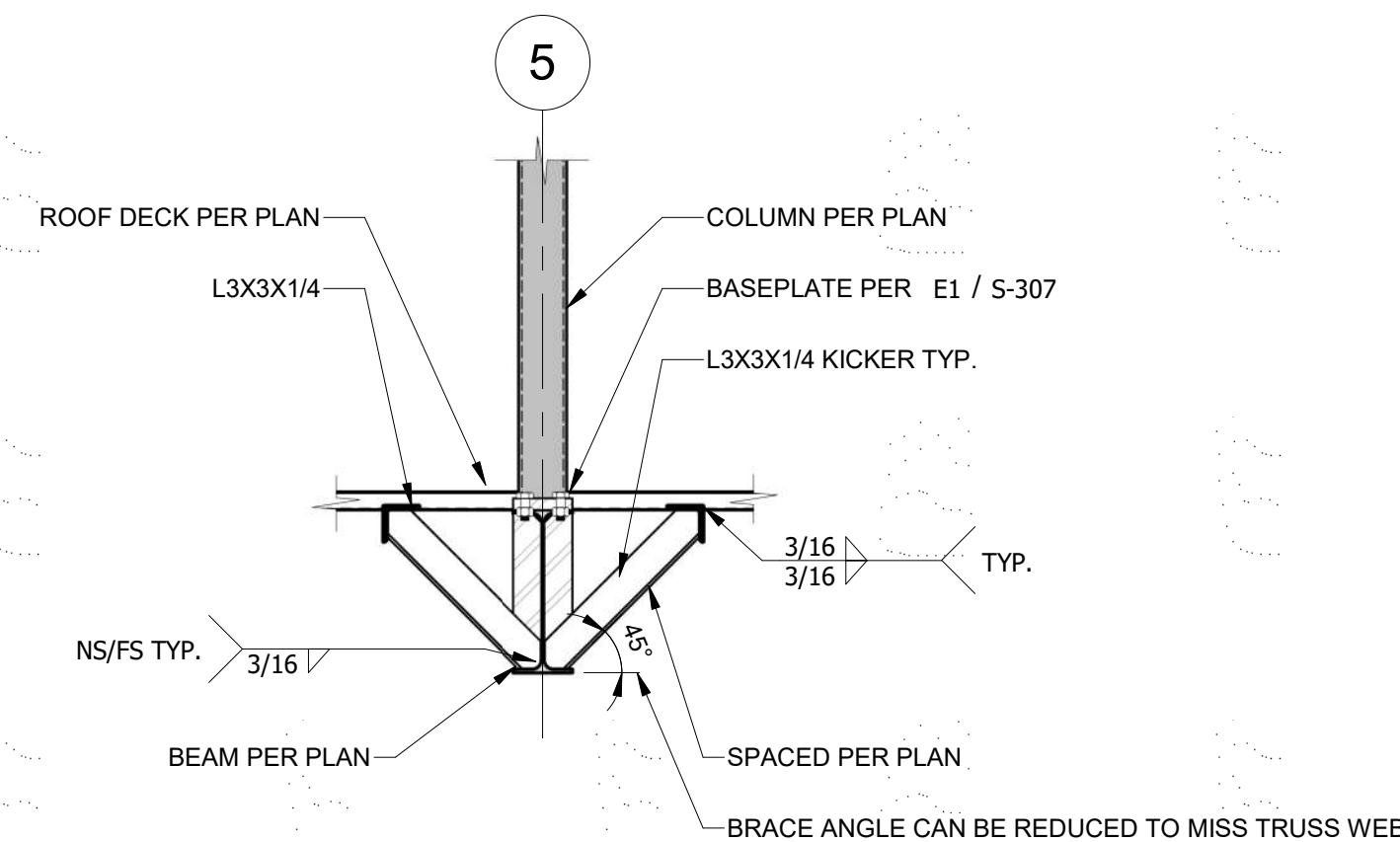
D1 HIGH ROOF HSS 6X6 COLUMN SUPPORT
3/4" = 1'-0"



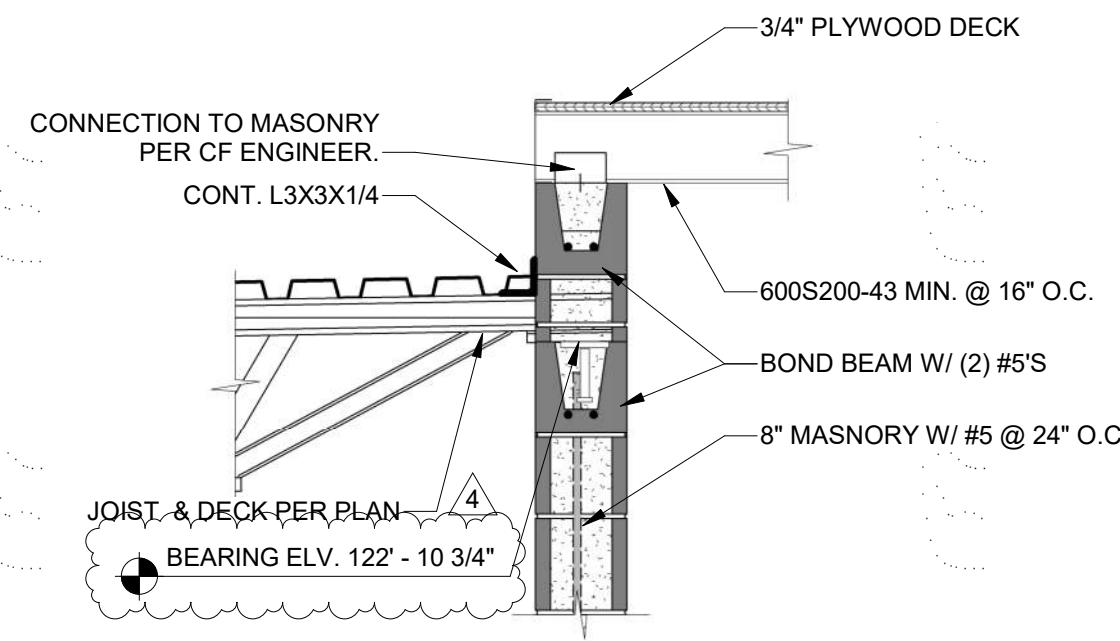
D2 HIGH ROOF HSS 4X4 COLUMN SUPPORT
3/4" = 1'-0"



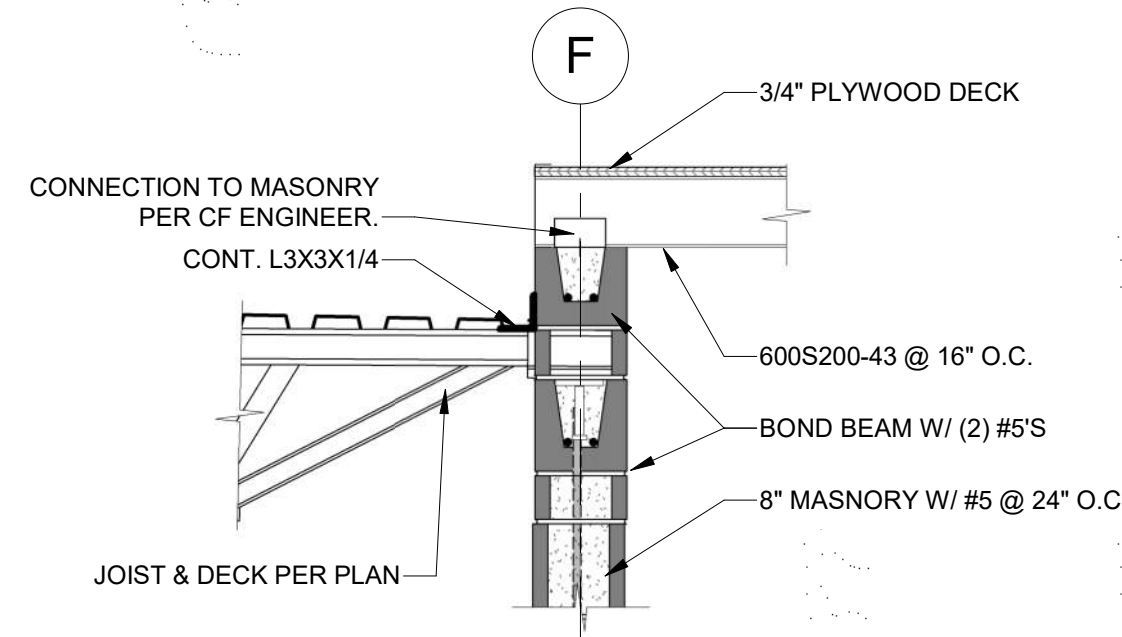
D4 HIGH ROOF KICKER DETAIL
3/4" = 1'-0"



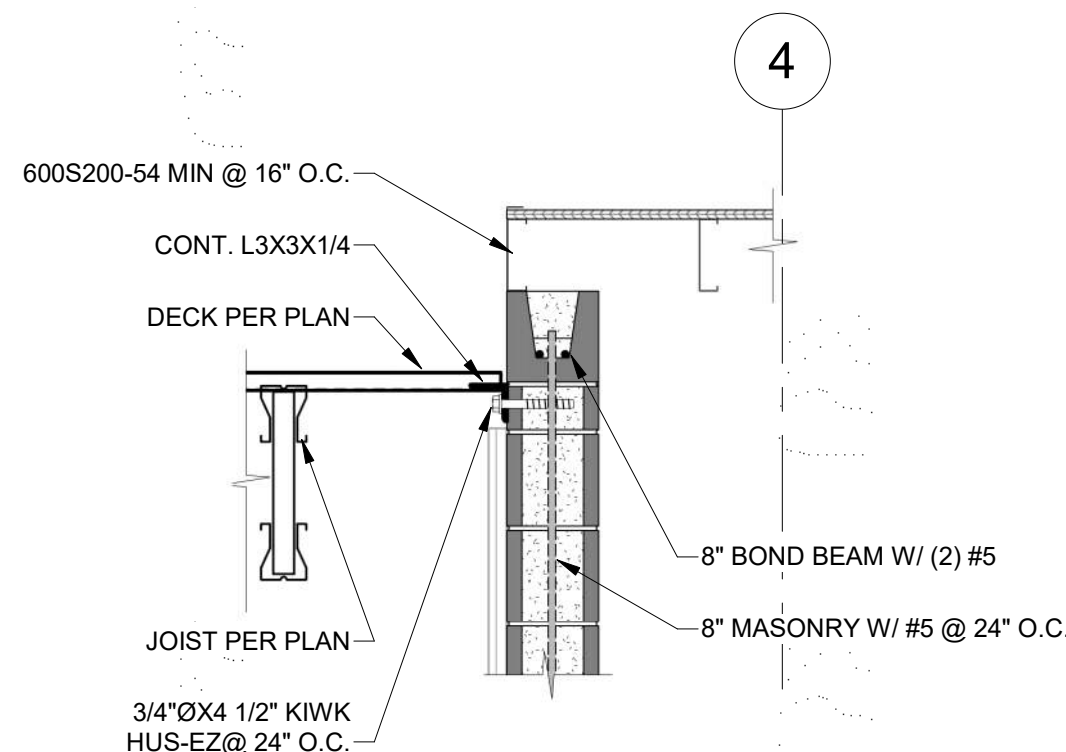
D6 SECTION
3/4" = 1'-0"



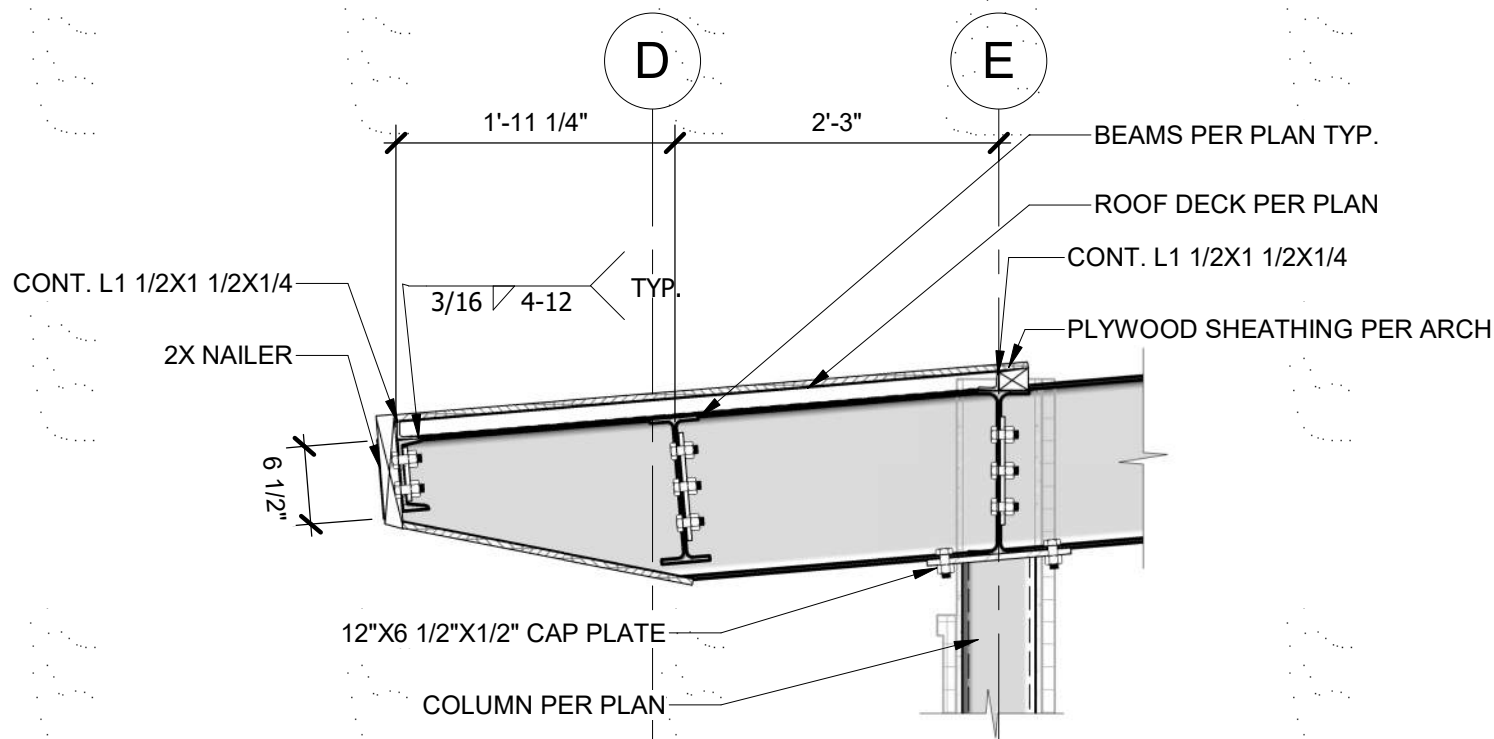
C1 SECTION
3/4" = 1'-0"



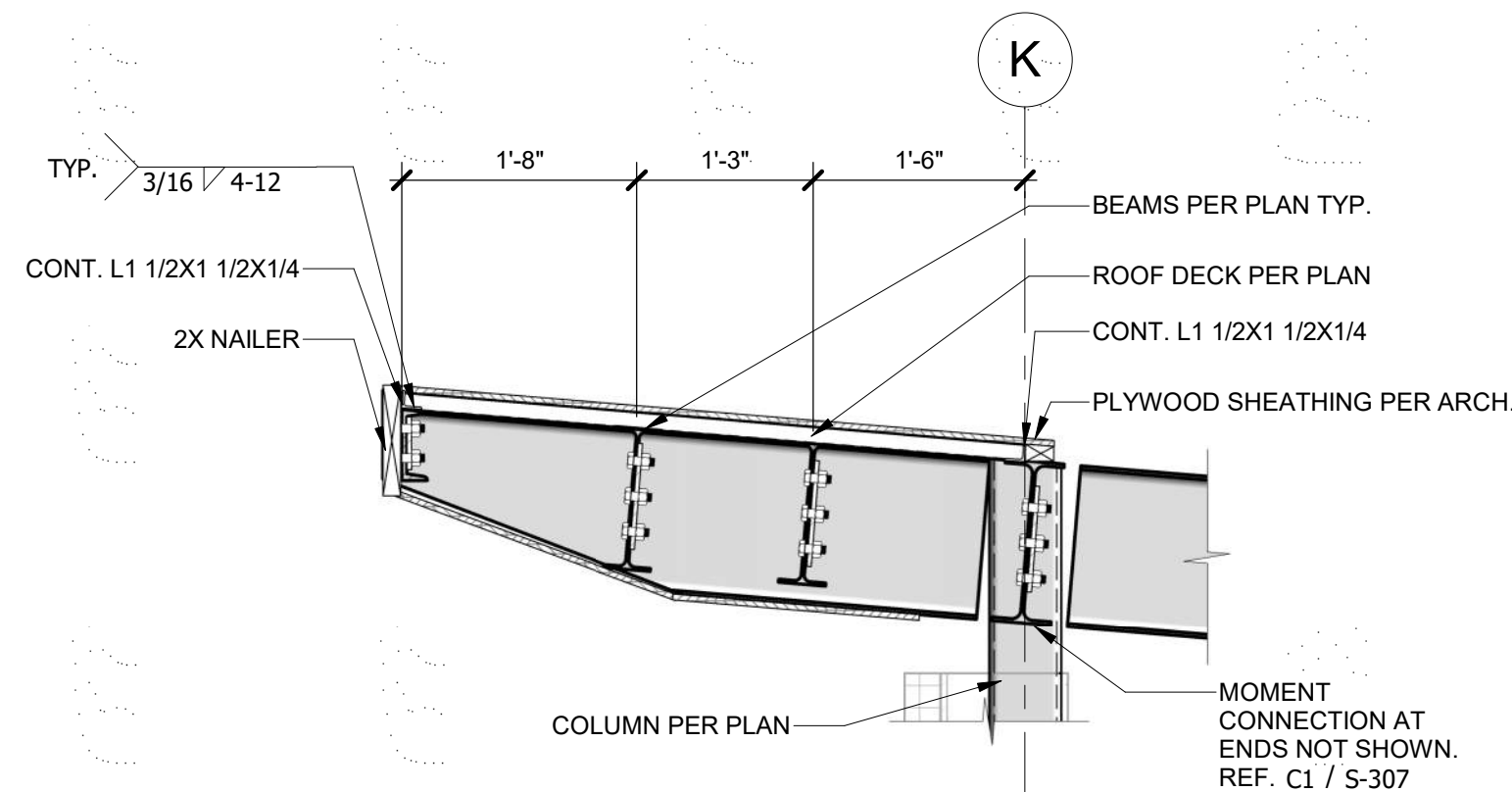
C2 SECTION
3/4" = 1'-0"



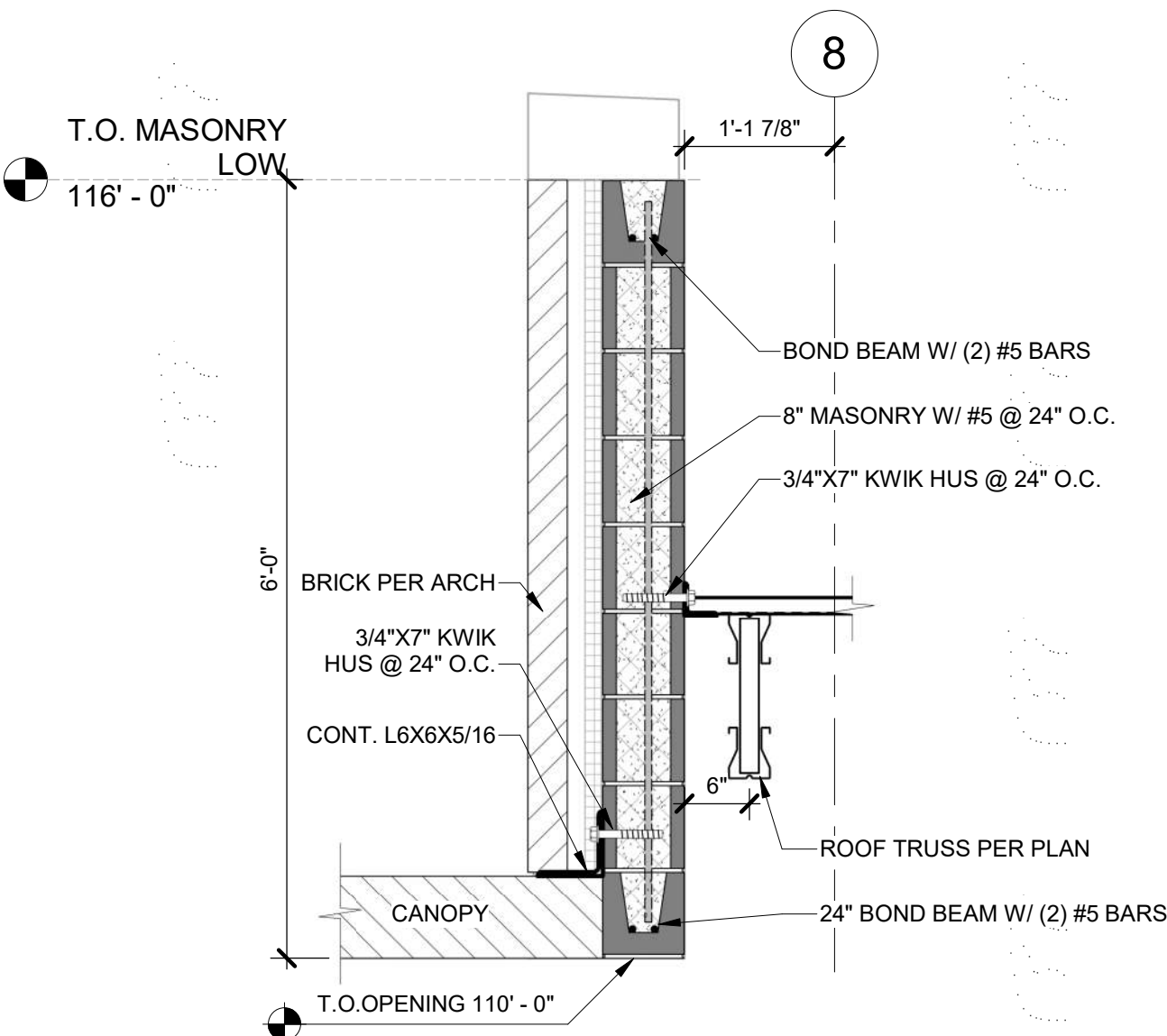
C4 HIGH ROOF OVERHANG
3/4" = 1'-0"



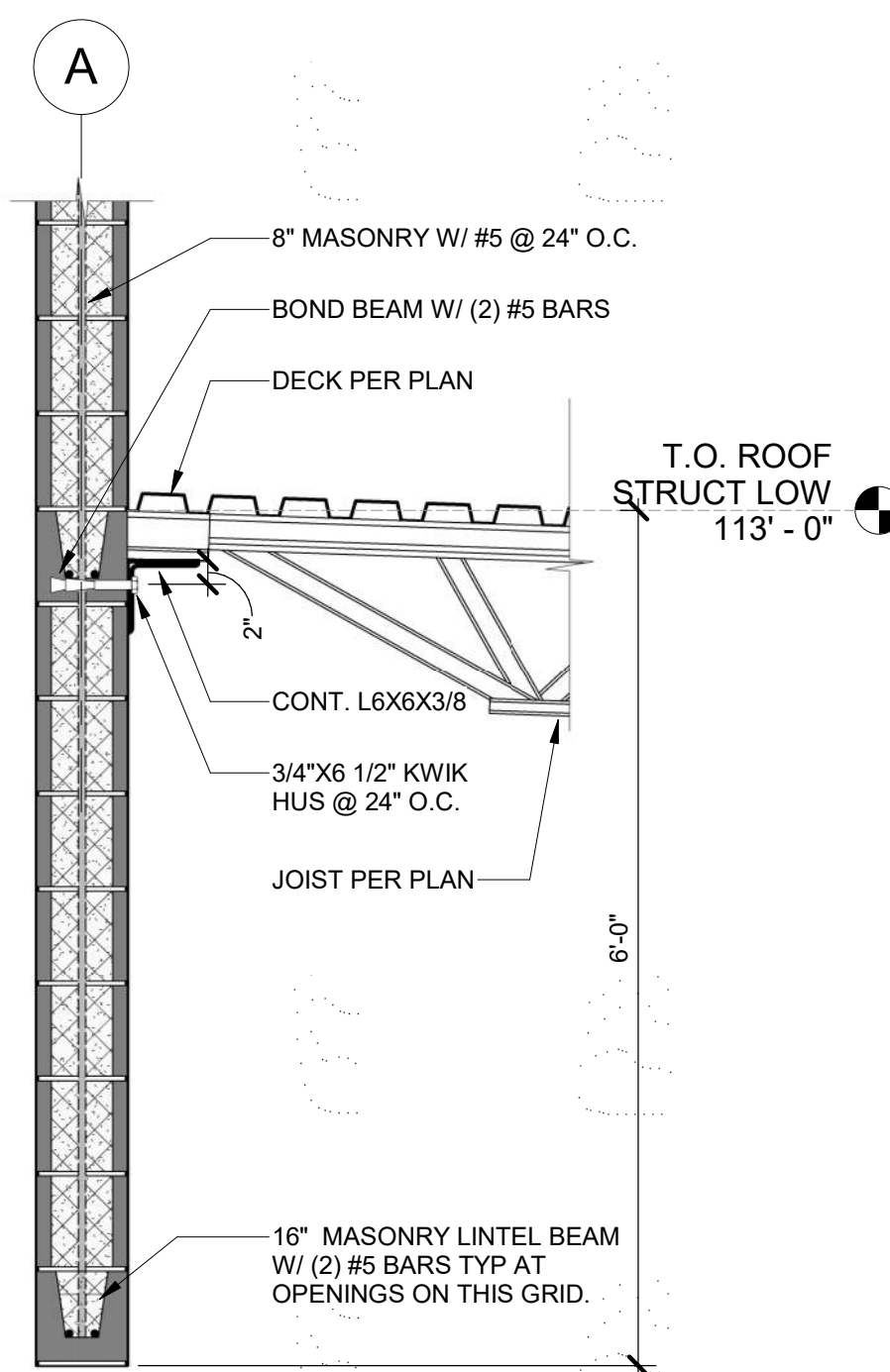
C6 SECTION
3/4" = 1'-0"



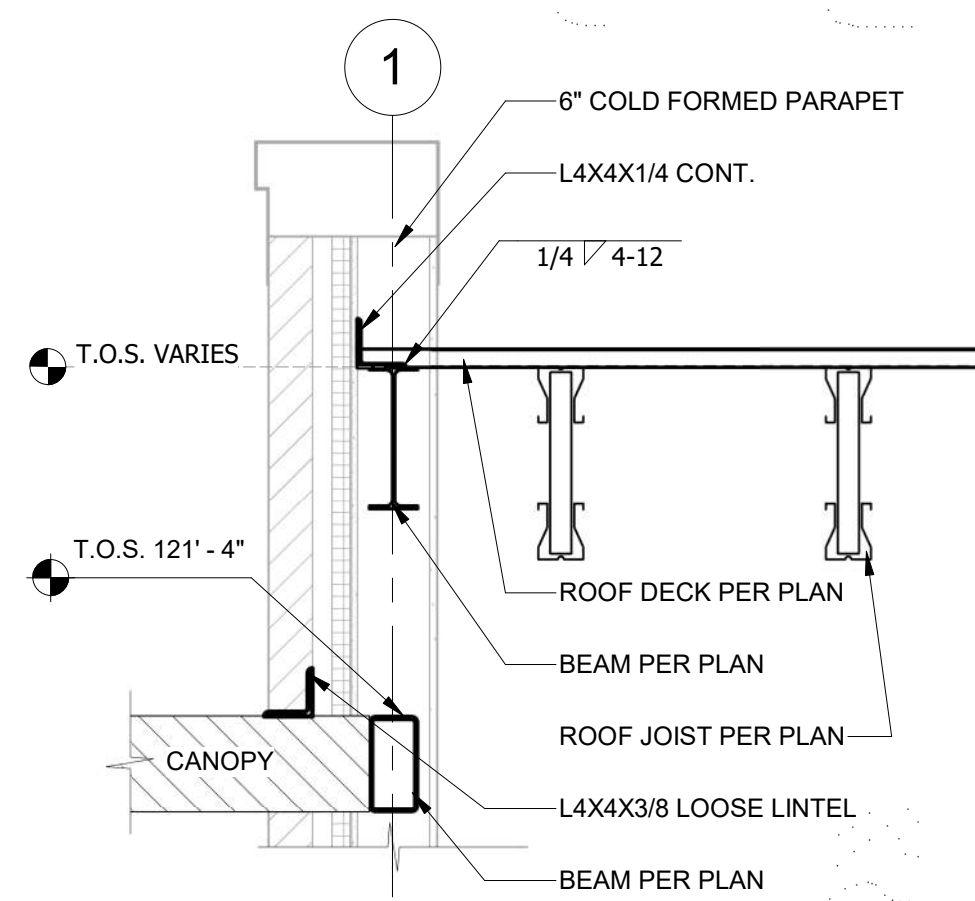
A1 SECTION
3/4" = 1'-0"



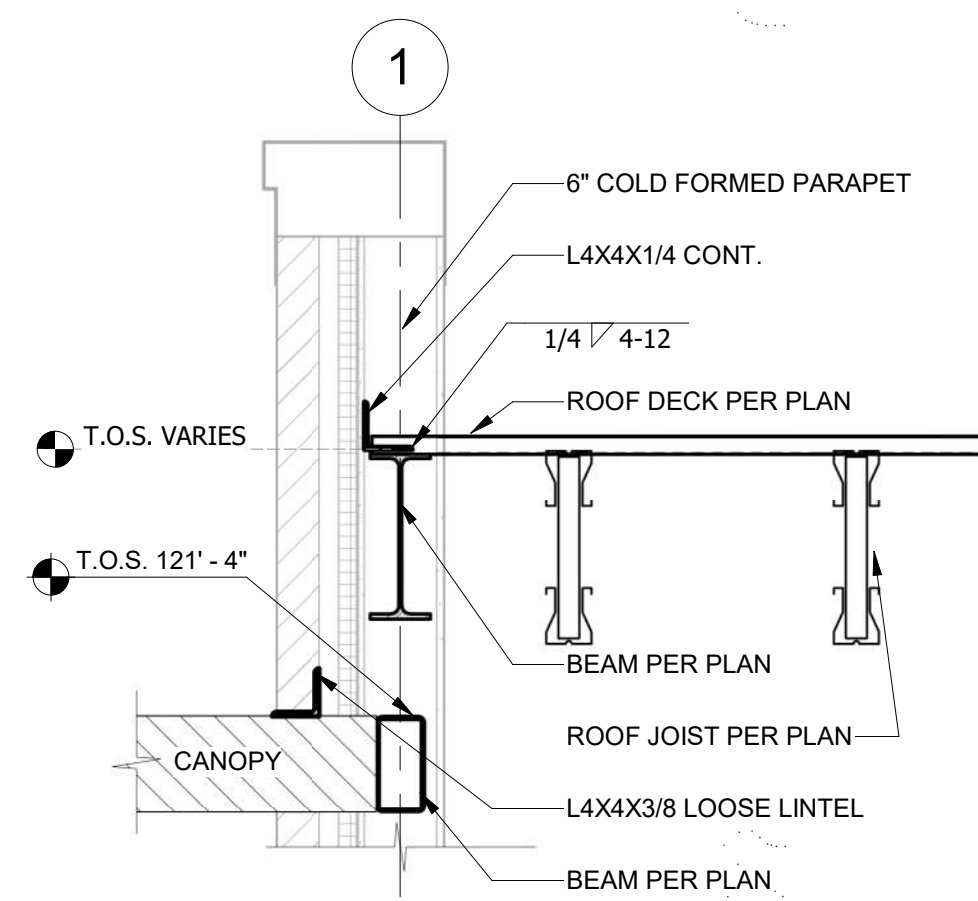
A2 JOIST BEARING ON GRID A
3/4" = 1'-0"



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



A6 SECTION
3/4" = 1'-0"



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FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
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ISSUED FOR CONSTRUCTION

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



PROJECT NO:	18225R21001
DATE:	02/01/2023
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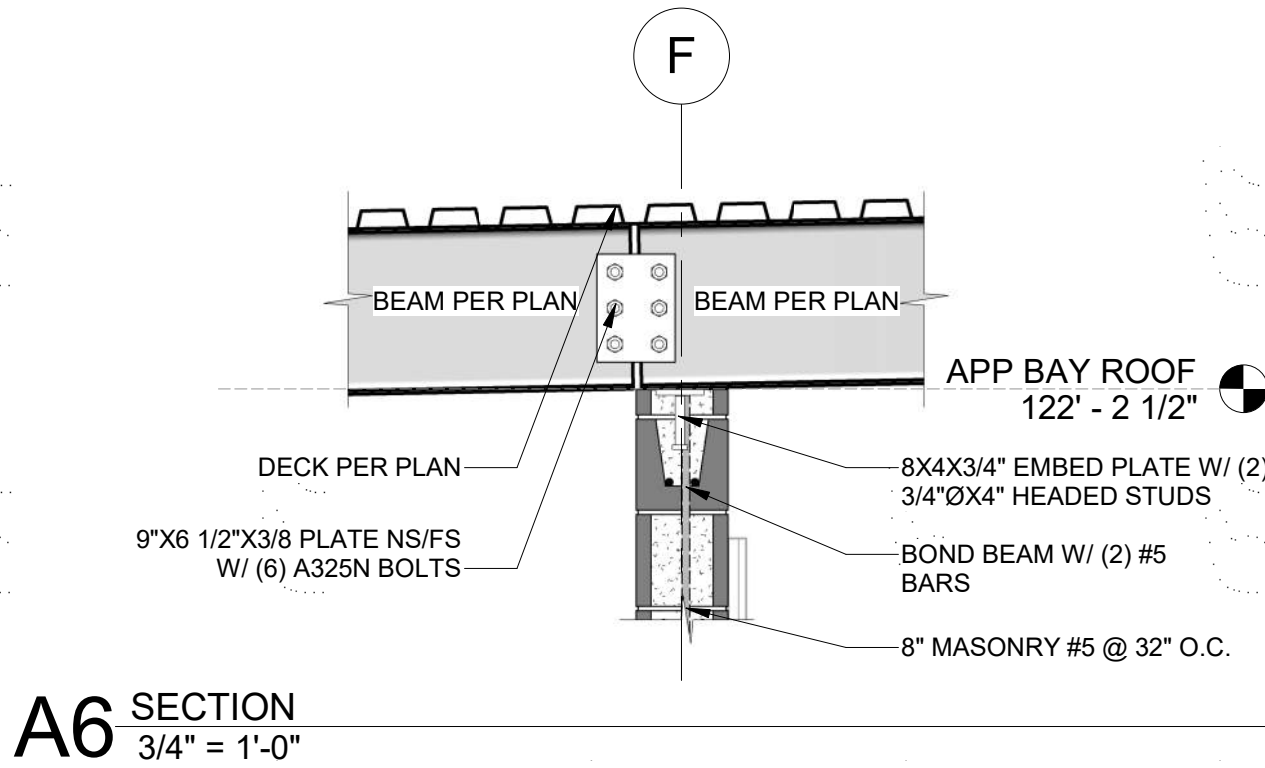
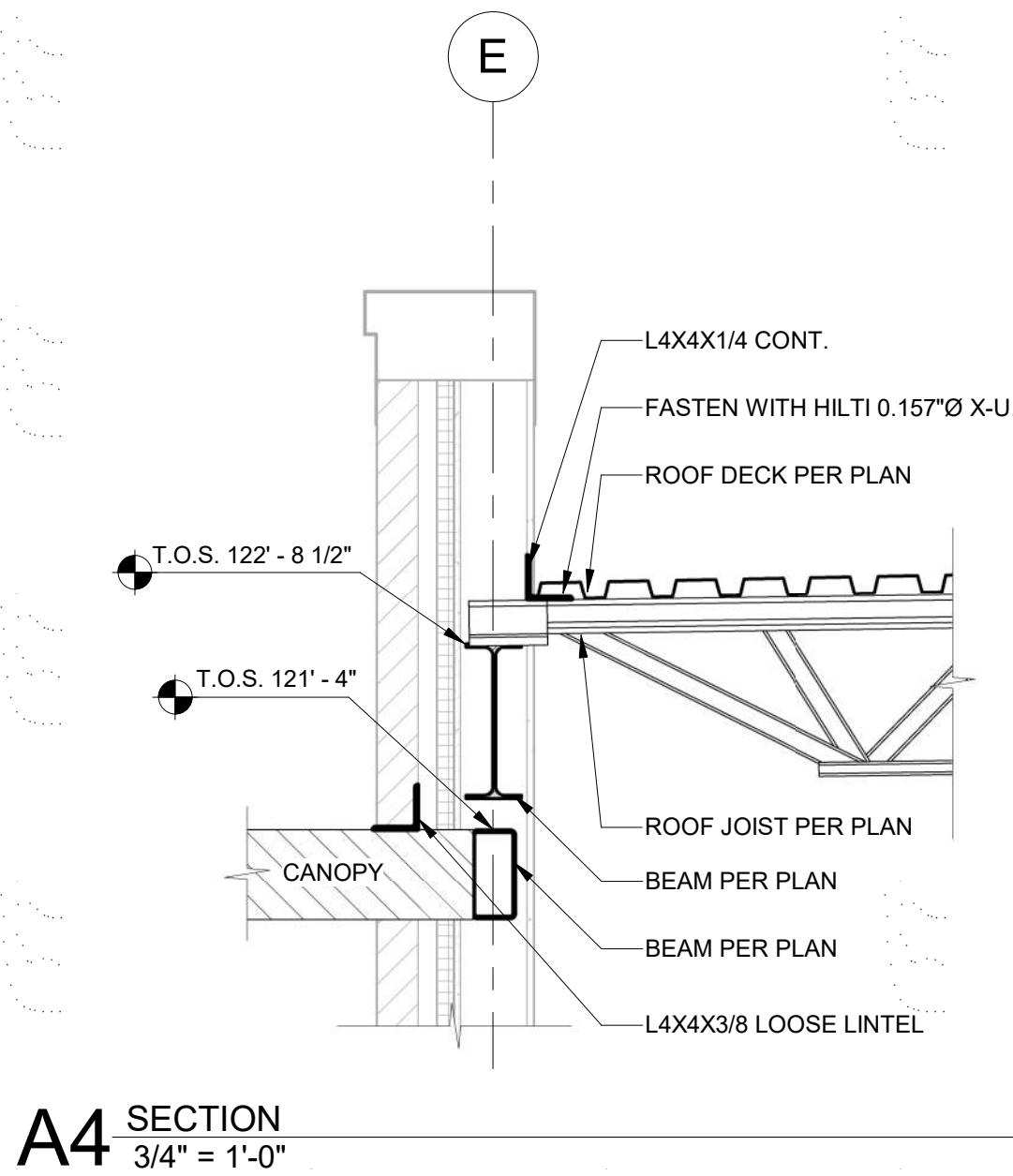
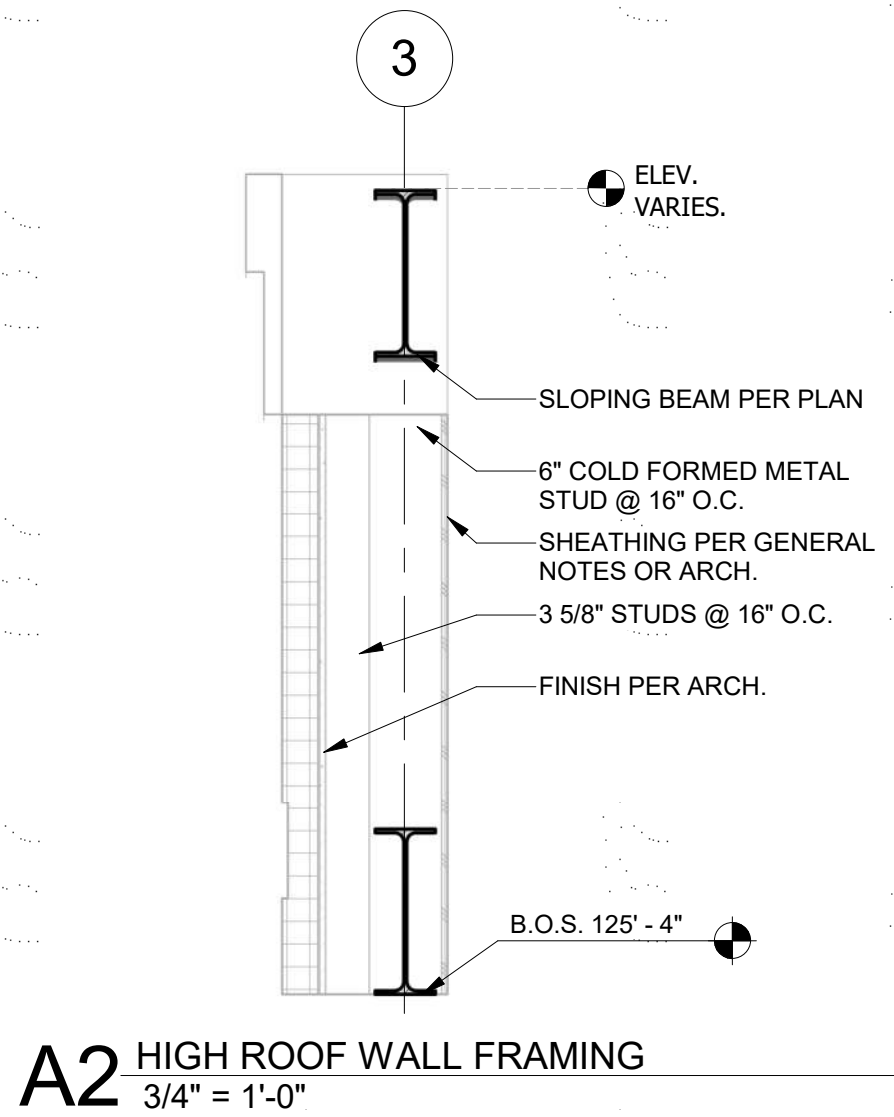
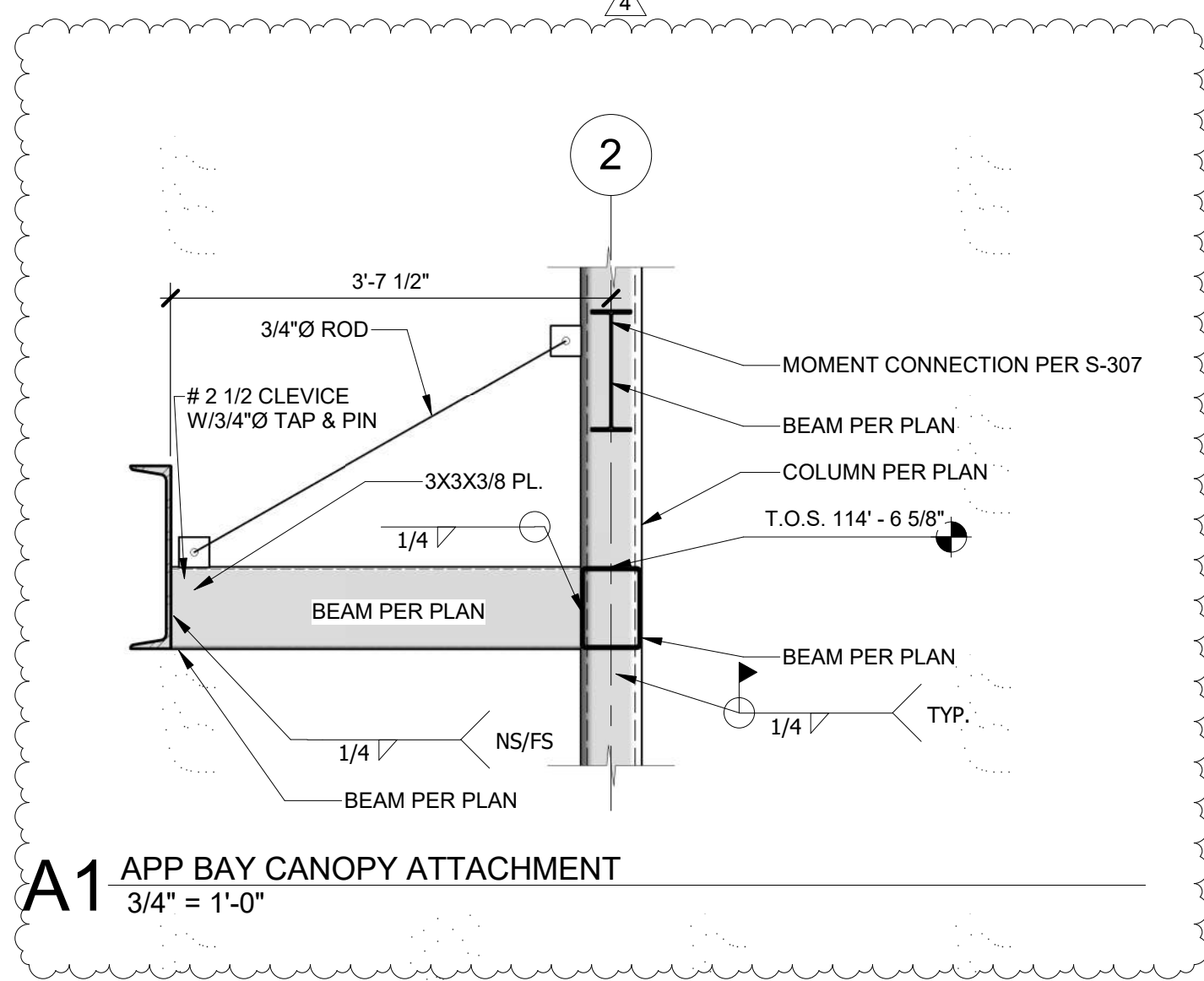
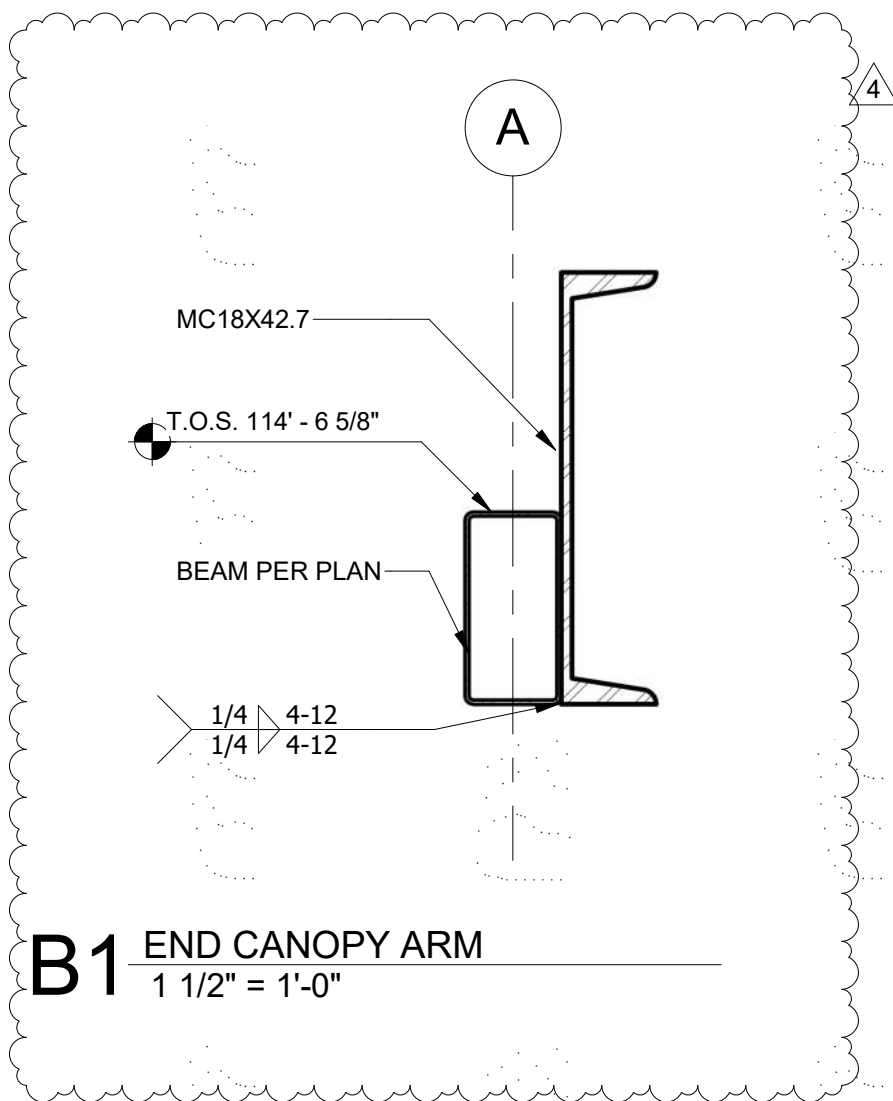
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B

A



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FIRE STATION #4

CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

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
DRAWN BY:	JMB
CHKD BY:	WNH

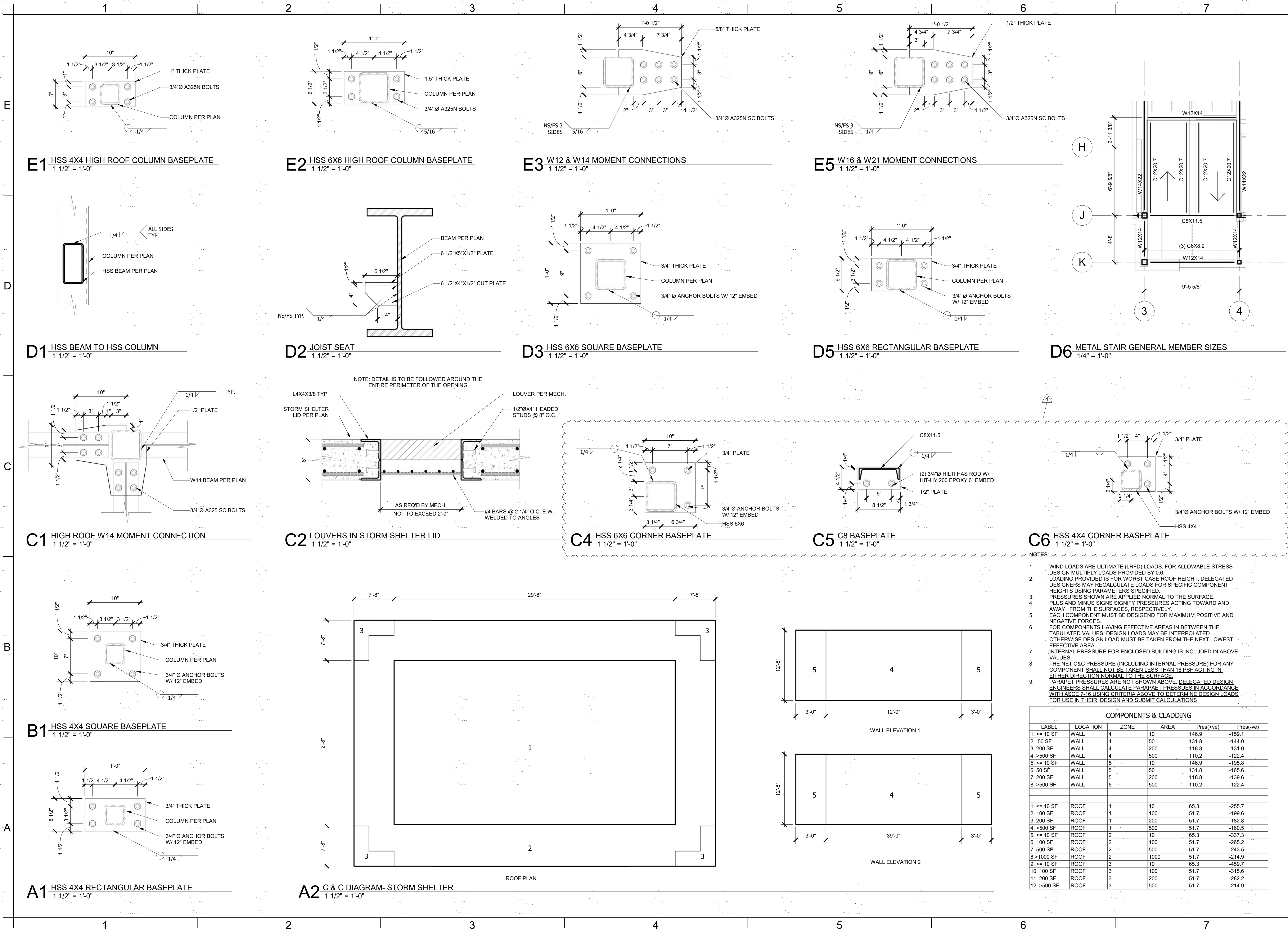
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ROOF SECTIONS

S-306

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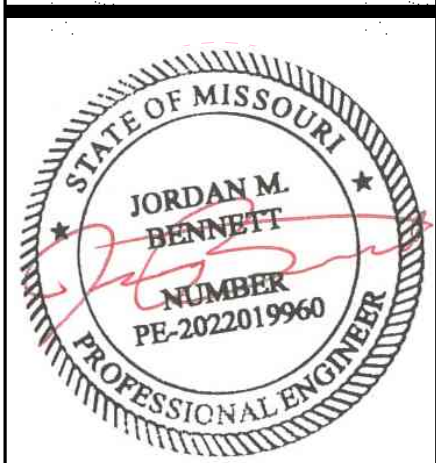
FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

REVISIONS:

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



PROJECT NO: 18225R21001
DATE: 02/01/2023
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MISC. DETAILS

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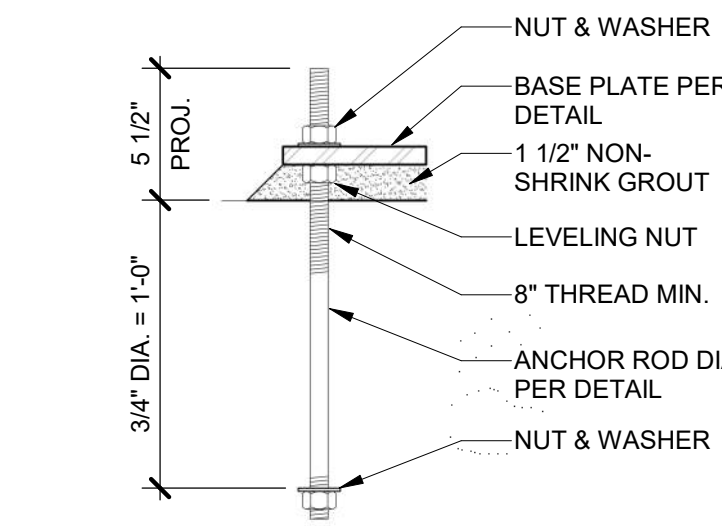
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- NOTES:
- WIND LOADS ARE ULTIMATE (LRFD) LOADS. FOR ALLOWABLE STRESS DESIGN MULTIPLY LOADS PROVIDED BY 0.6.
 - LOADING PROVIDED IS FOR WORST CASE ROOF OF HEIGHT. DELEGATED DESIGNERS MAY RECALCULATE LOADS FOR SPECIFIC COMPONENT HEIGHTS USING PARAMETERS SPECIFIED.
 - PRESSURES SHOWN ARE APPLIED NORMAL TO THE SURFACE. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
 - EACH COMPONENT MUST BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
 - FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN THE TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED.
 - OTHERWISE DESIGN LOAD MUST BE TAKEN FROM THE NEXT LOWEST EFFECTIVE AREA.
 - INTERNAL PRESSURE FOR ENCLOSED BUILDING IS INCLUDED IN ABOVE VALUES.
 - THE NET C&C PRESSURE (INCLUDING INTERNAL PRESSURE) FOR ANY COMPONENT SHALL NOT BE TAKEN LESS THAN 16 PSF ACTING IN EITHER DIRECTION NORMAL TO THE SURFACE.
 - PARAPET PRESSURES ARE NOT SHOWN ABOVE. DELEGATED DESIGN ENGINEERS SHALL CALCULATE PARAPET PRESSURES IN ACCORDANCE WITH ASCE 7-16 USING CRITERIA ABOVE TO DETERMINE DESIGN LOADS FOR USE IN THEIR DESIGN AND SUBMIT CALCULATIONS.

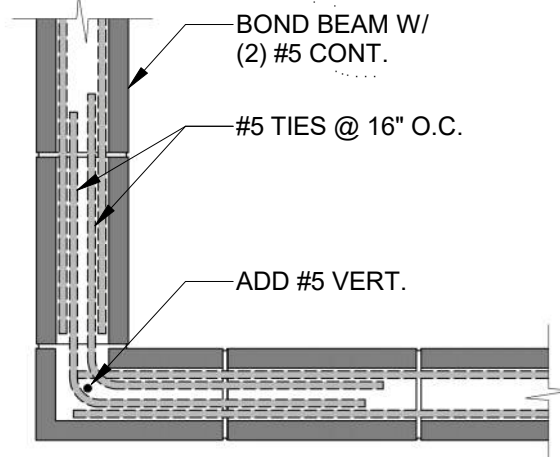
COMPONENTS & CLADDING						
LABEL	LOCATION	ZONE	AREA	Pres(+ve)	Pres(-ve)	
1. <= 10 SF	WALL	4	10	146.9	-159.1	
2. 50 SF	WALL	4	50	131.8	-144.0	
3. 200 SF	WALL	4	200	118.8	-131.0	
4. >500 SF	WALL	4	500	110.2	-122.4	
5. <= 10 SF	WALL	5	10	146.9	-195.8	
6. 50 SF	WALL	5	50	131.8	-165.6	
7. 200 SF	WALL	5	200	118.8	-139.6	
8. >500 SF	WALL	5	500	110.2	-122.4	
1. <= 10 SF	ROOF	1	10	65.3	-255.7	
2. 100 SF	ROOF	1	100	51.7	-199.6	
3. 200 SF	ROOF	1	200	51.7	-182.8	
4. >500 SF	ROOF	1	500	51.7	-160.5	
5. <= 10 SF	ROOF	2	10	65.3	-337.3	
6. 100 SF	ROOF	2	100	51.7	-265.2	
7. 500 SF	ROOF	2	500	51.7	-243.5	
8. >1000 SF	ROOF	2	1000	51.7	-214.9	
9. <= 10 SF	ROOF	3	10	65.3	-459.7	
10. 100 SF	ROOF	3	100	51.7	-315.6	
11. 200 SF	ROOF	3	200	51.7	-282.2	
12. >500 SF	ROOF	3	500	51.7	-214.9	

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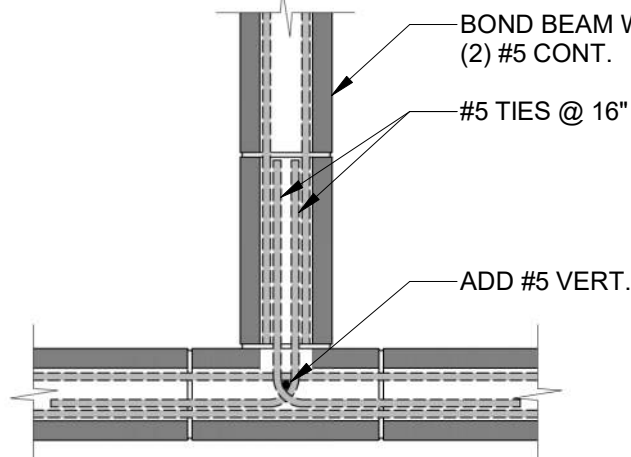
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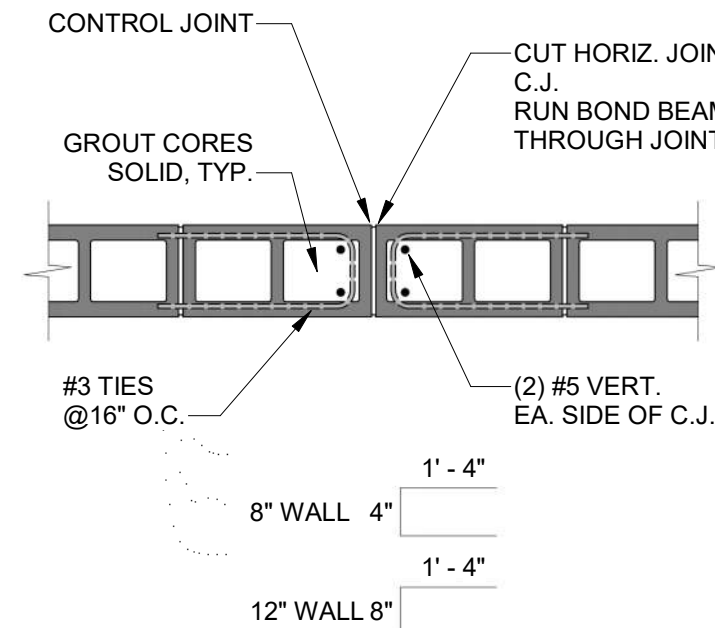
E1 ANCHOR BOLT DETAIL
3/4" = 1'-0"



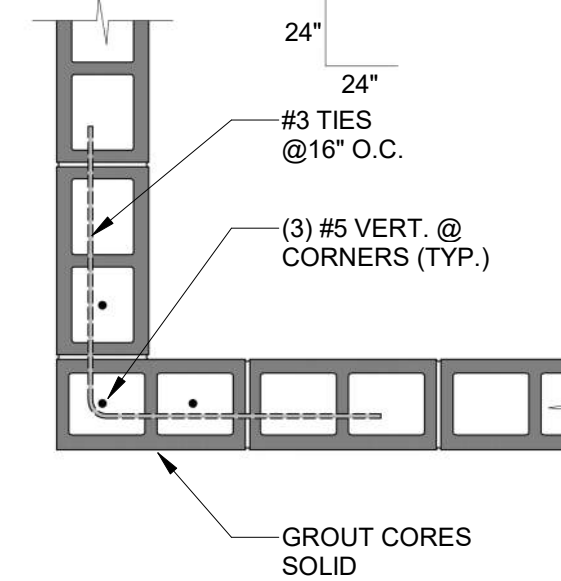
E2 BOND BEAM CORNER DETAIL
3/4" = 1'-0"



E3 BOND BEAM INTERSECTION DETAIL
3/4" = 1'-0"

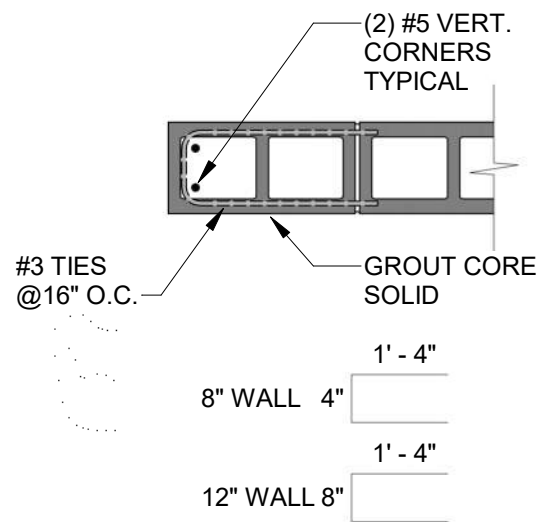


E4 CMU WALL CONTROL JOINT DETAIL
3/4" = 1'-0"

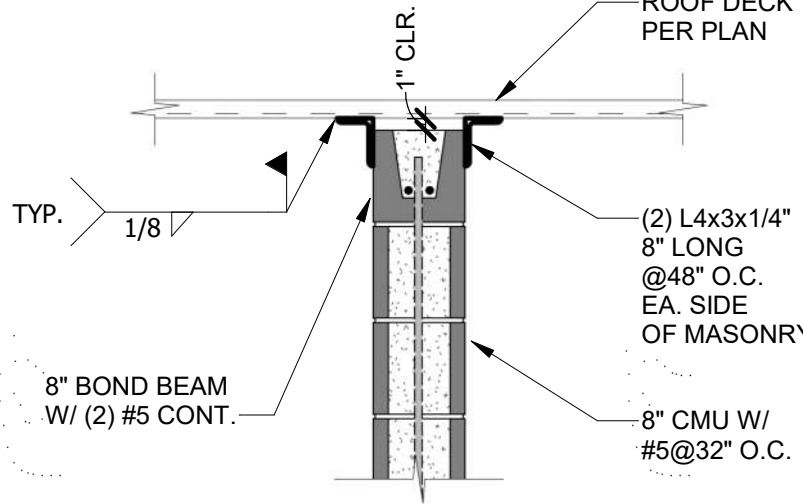


E6 CMU WALL CORNER DETAIL
3/4" = 1'-0"

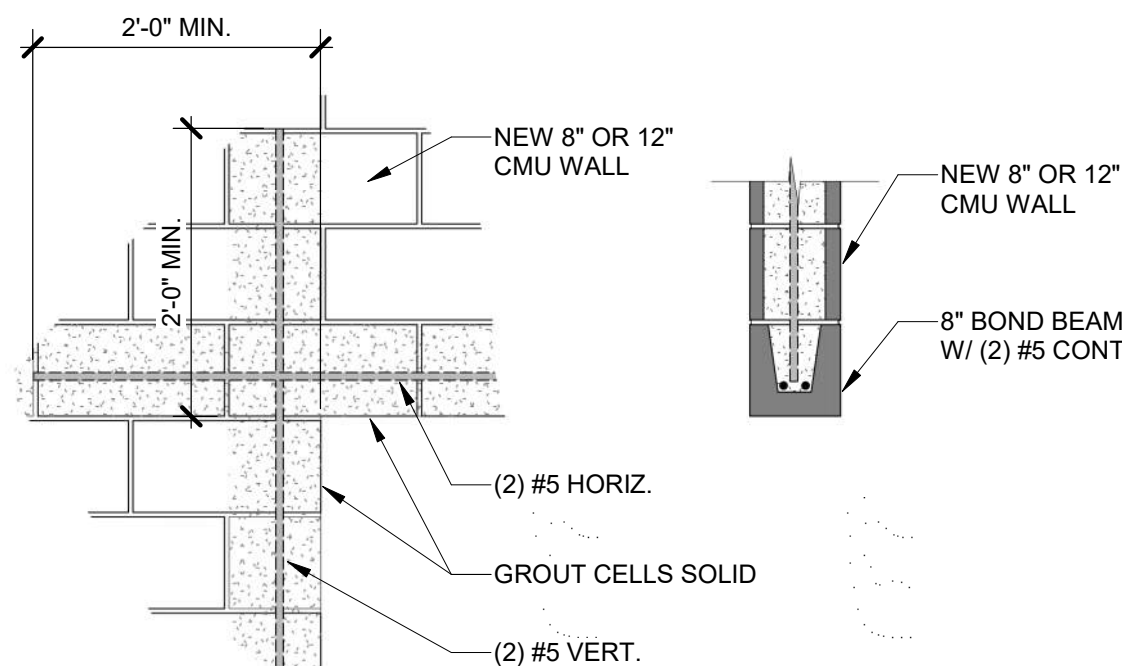
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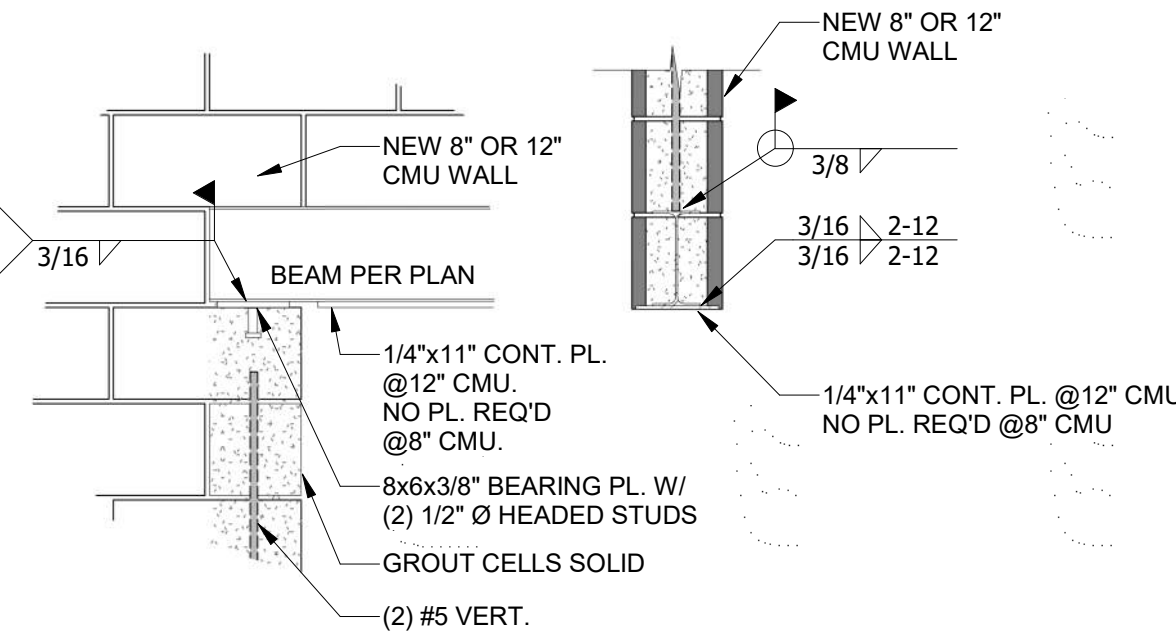
D1 CMU WALL END DETAIL
3/4" = 1'-0"



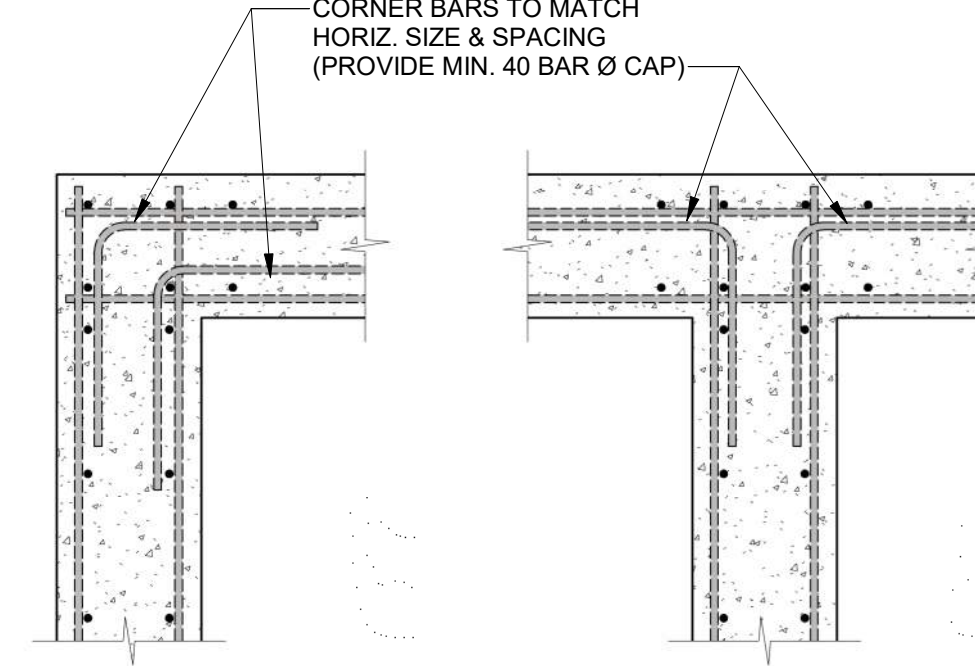
D2 CMU WALL SUPPORT SECTION
3/4" = 1'-0"



D3 TYP. MASONRY LINTEL DETAIL
3/4" = 1'-0"

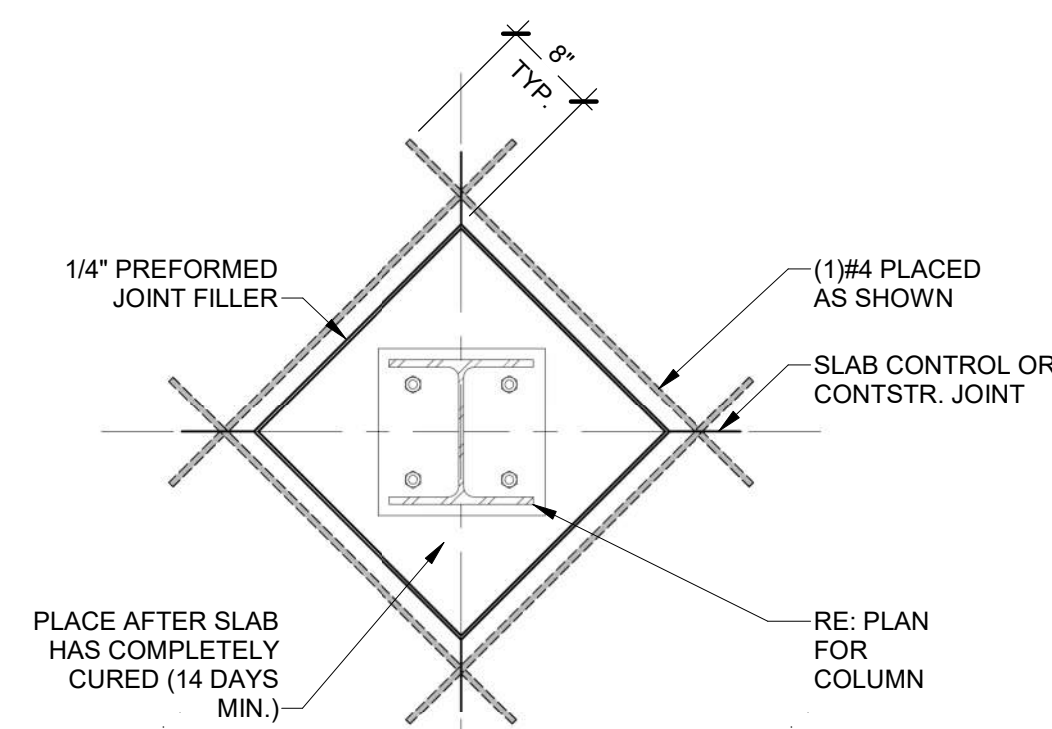


D4 TYP. STEEL LINTEL DETAIL
3/4" = 1'-0"

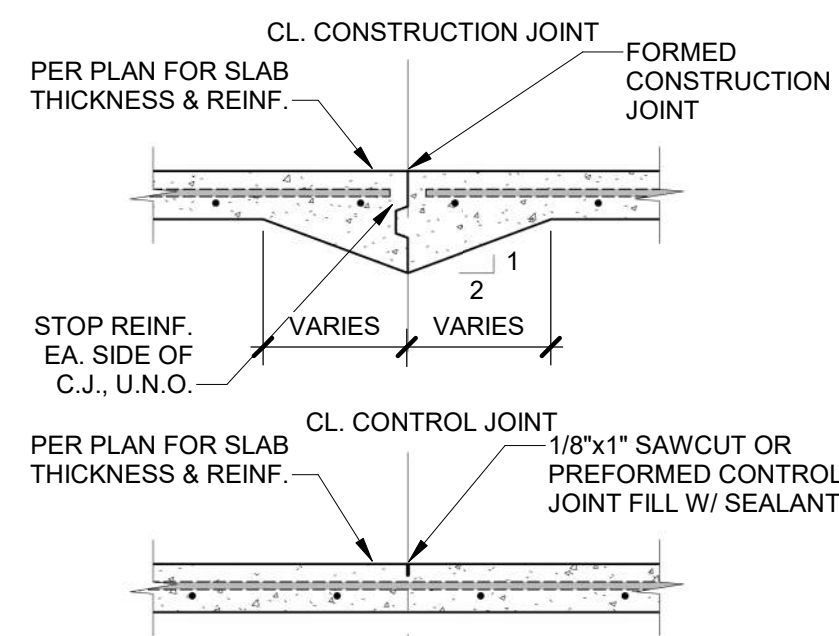


D6 HORIZ. CORNER BARS DETAIL
3/4" = 1'-0"

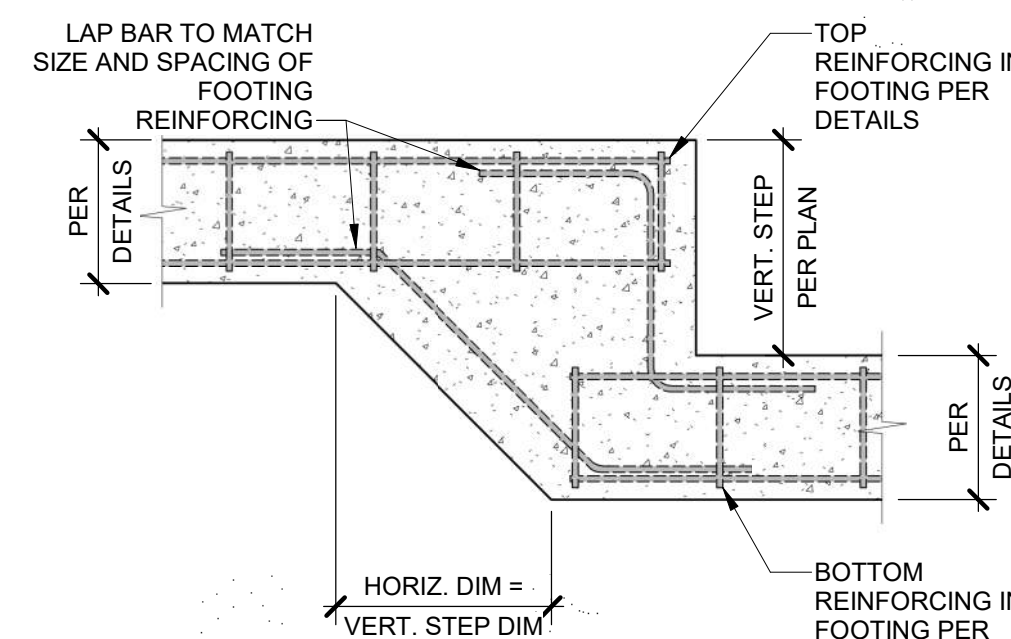
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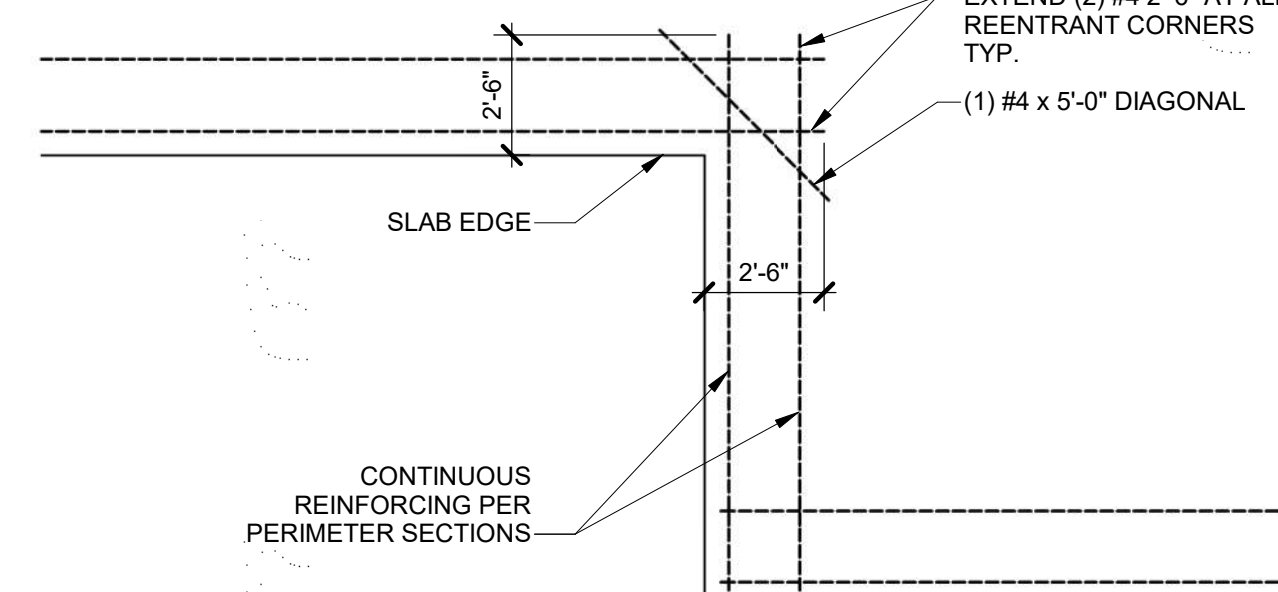
B1 ISOLATION JOINT
3/4" = 1'-0"



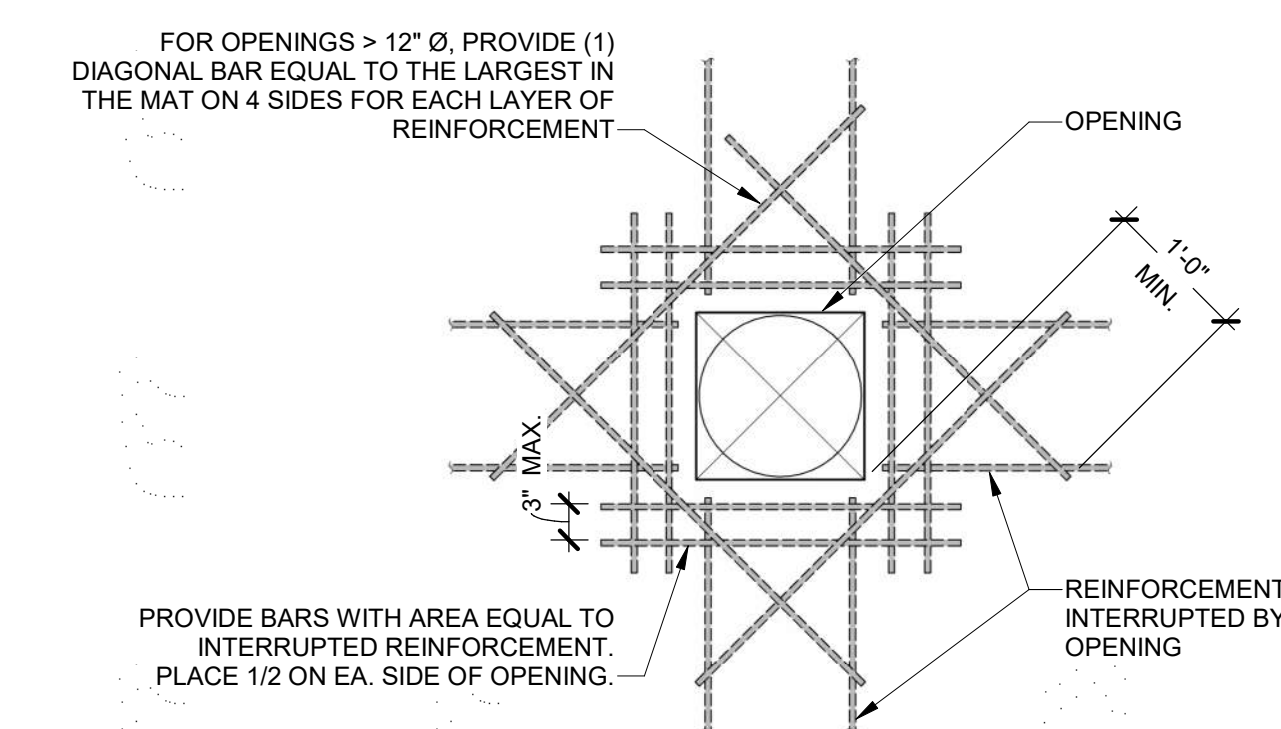
B2 SLAB JOINT DETAILS
3/4" = 1'-0"



B3 TRENCH FOOTING STEP DETAIL
3/4" = 1'-0"

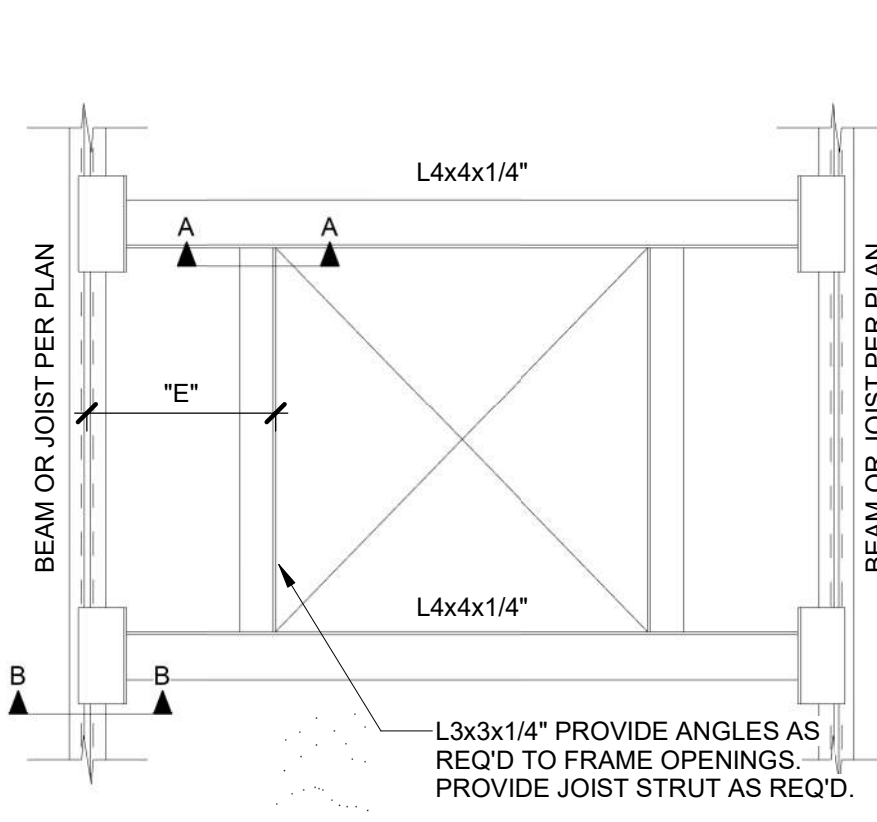


B4 TYPICAL REENTRANT CORNER REINF. DETAIL
1/4" = 1'-0"

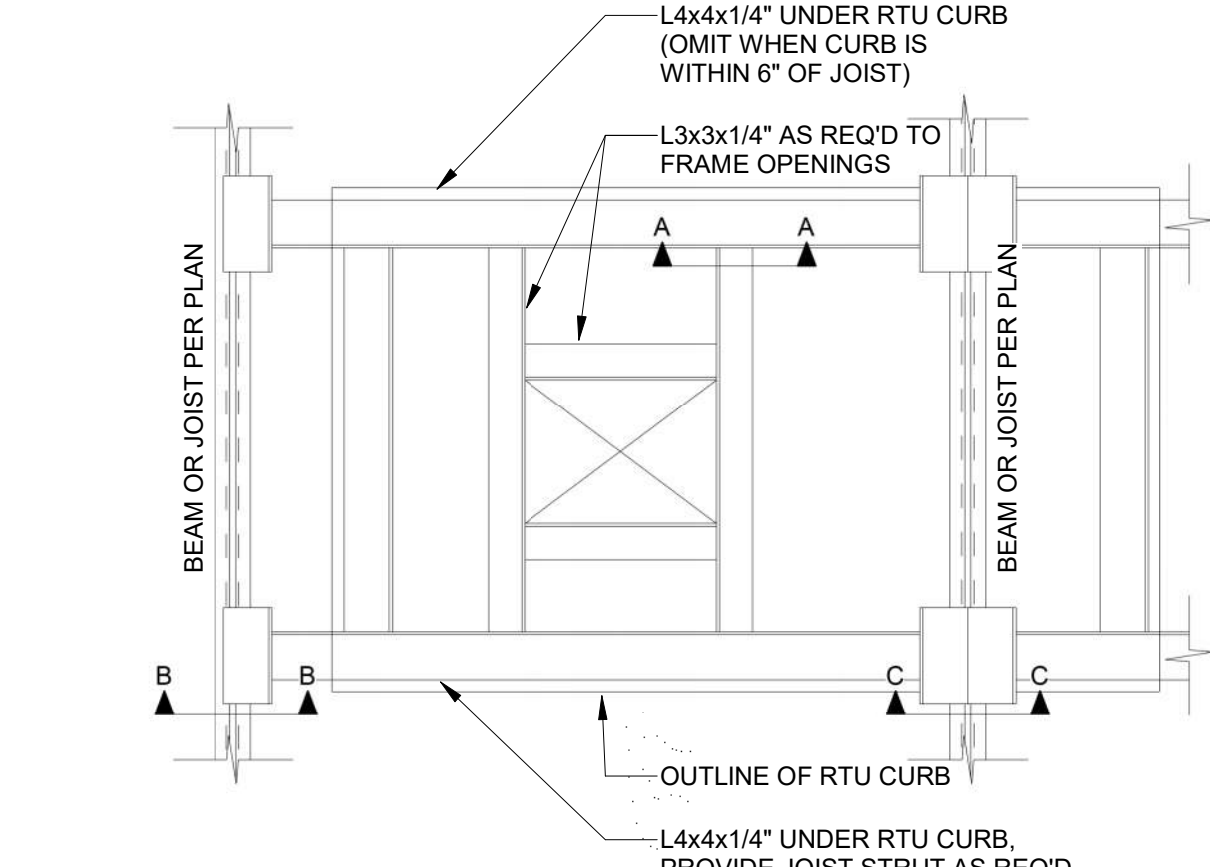


B6 WALL & FLOOR PENETRATION DETAIL
3/4" = 1'-0"

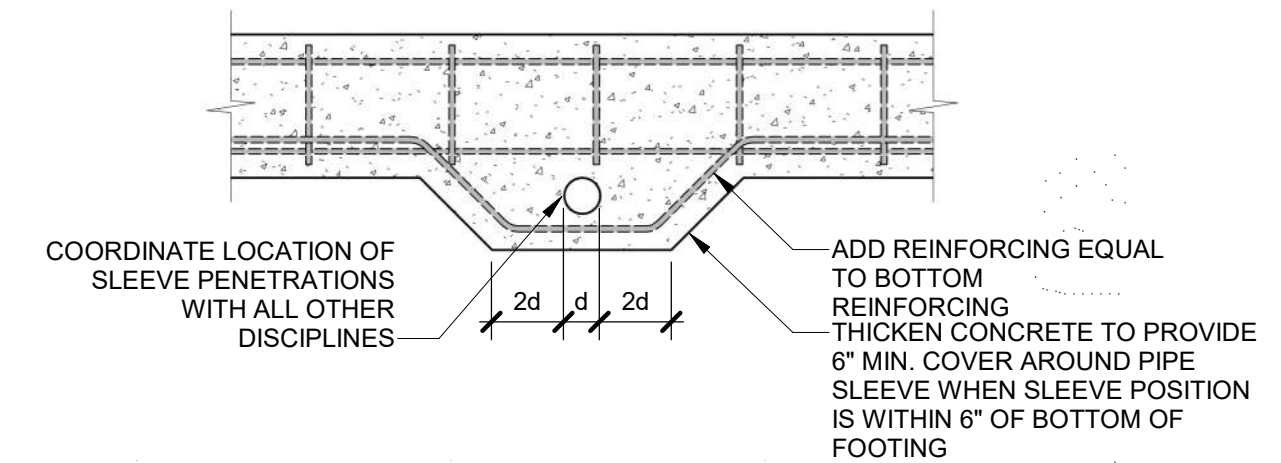
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A1 RTU SUPPORT DETAILS
3/4" = 1'-0"

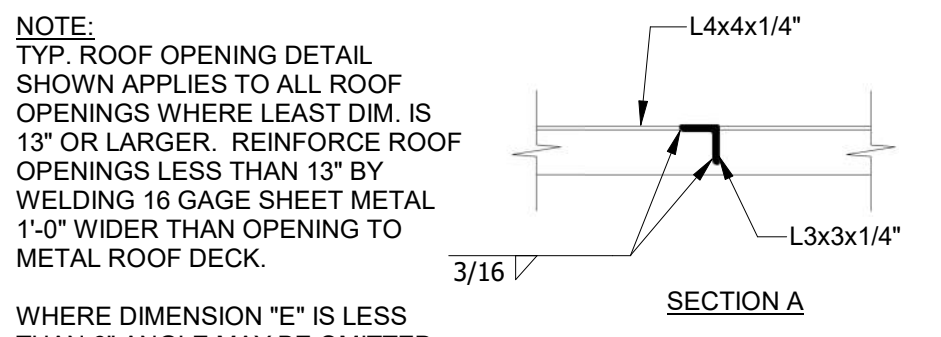


A4 TYP. SHEAR PLATE CONNECTION
3/4" = 1'-0"



A6 FOUNDATION SLEEVE DETAIL
3/4" = 1'-0"

A



NOTE: TYP. ROOF OPENING DETAIL SHOWN APPLIES TO ALL ROOF OPENINGS WHERE LEAST DIM. IS 13" OR LARGER. REINFORCE ROOF OPENINGS LESS THAN 13" BY WELDING 16 GAGE SHEET METAL 1'-0" WIDER THAN OPENING TO METAL ROOF DECK.

WHERE DIMENSION "E" IS LESS THAN 6" ANGLE MAY BE OMITTED.

NOTE:

1. PROVIDE MINIMUM BOLT NUMBER AND 3/4" Ø A325N BOLTS AS THE TYPICAL CONNECTION. MINIMUM DISTANCE FROM TOP BOLT TO A COPE SHALL BE 1 1/2". INCREASE DISTANCE FROM TOP OF BEAM TO TOP OF BOLT, IF REQUIRED.
2. USE ONLY STANDARD HOLES TO GIRDER WEB. USE HORIZONTAL SHORT SLOTTED HOLES TO PURLIN WEB.

CONNECTION SCHEDULE	
NOMINAL BEAM DEPTH "D"	"N" ROWS OF BOLTS
W8 TO W10	2
W12 TO W14	3
W16	4
W18	5
W21-W24	6
W27	7
W30	8
W33	9
W36	10
W40	11
W44	12

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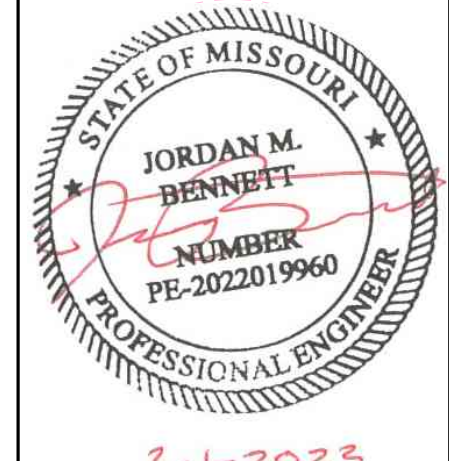
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CITY OF LEE'S SUMMIT

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ISSUED FOR CONSTRUCTION

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



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

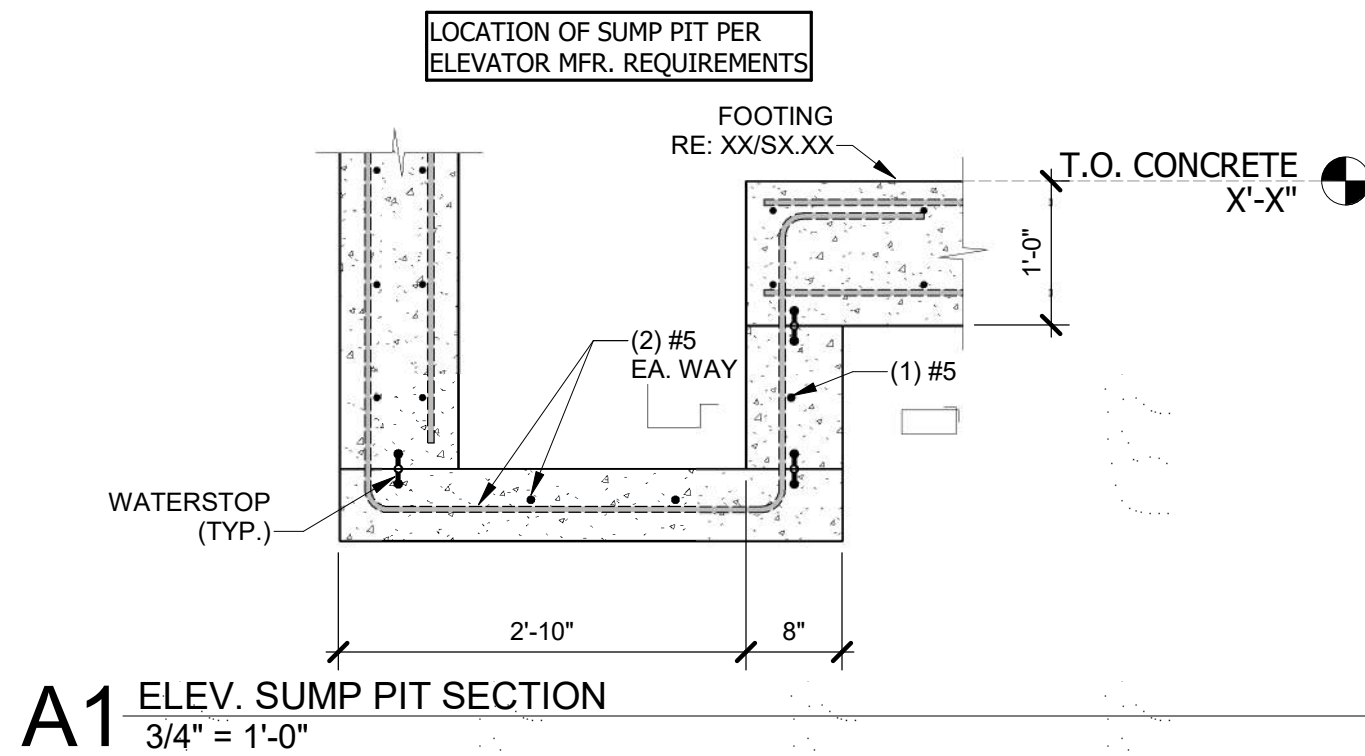
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TYPICAL DETAILS

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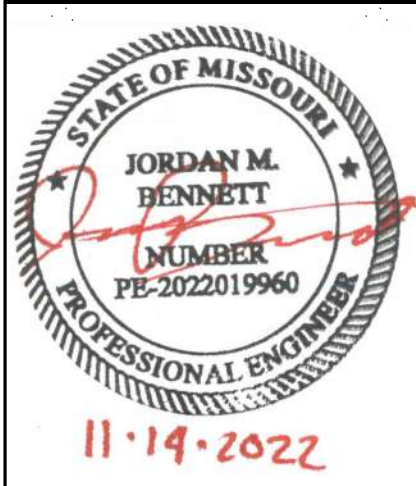
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ISSUED FOR CONSTRUCTION

REVISIONS:

#	Description	Date
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PROJECT NO: 18225R21001
DATE: 11.16.2022
DRAWN BY: JMB
CHKD BY: WNH

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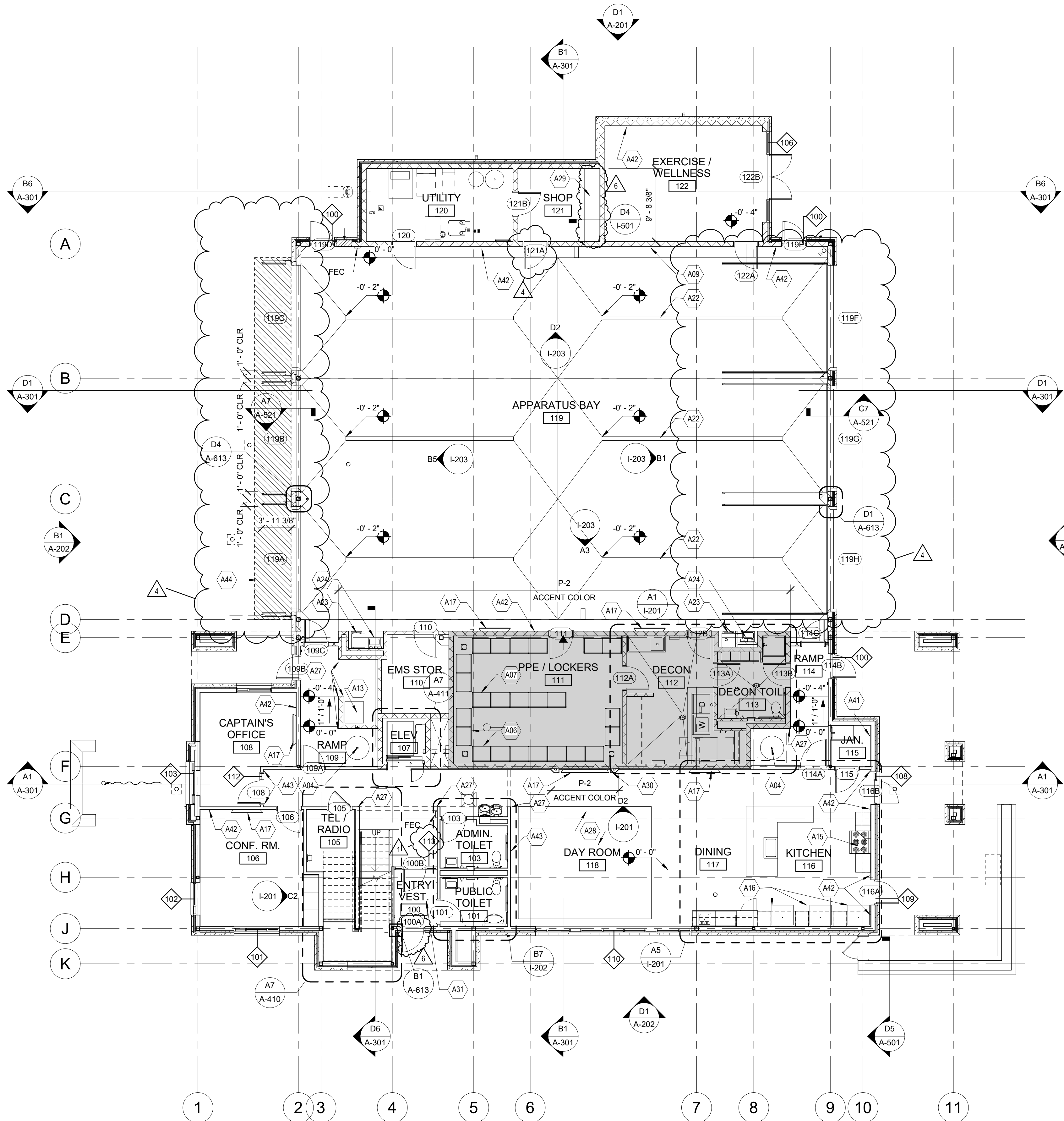
E

D

C

B

A



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

ARCH NOTES

- THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO THE SITE, AND THE STORAGE OF MATERIALS AND EQUIPMENT ON SITE WITH THE OWNER.
- THE GENERAL CONTRACTOR SHALL REPAIR DAMAGE TO ANY ADJACENT AREAS OCCURRING DURING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS TRASH AND OTHER MISCELLANEOUS MATERIALS FROM THE SITE DAILY.
- MAINTAIN EXIT PATHS FOR THE DURATION OF THE CONSTRUCTION.
- CONTRACTOR SHALL NOT REPRODUCE ANY PORTION OF A CONTRACT DRAWING FOR USE IN ANY PORTION OF A SUBMITTAL.
- ALL DIMENSIONS ARE FROM THE FACE OF STUD FRAMING, FACE OF MASONRY, FACE OF CONCRETE, OR CENTER LINE OF STRUCTURAL STEEL (U.N.O.).
- 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.).
- COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES, ETC. PRIOR TO INSTALLATION OF FINISH MATERIAL.
- 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.).
- PROVIDE CONTROL JOINTS ON CONTINUOUS GYPSUM BOARD SURFACES IN EXCESS OF 30'-0", AT A MAXIMUM INCREMENT OF 30'-0" ON CENTER (U.N.O.).
- PROVIDE SEALANT IN FLOOR JOINTS OF EXPOSED FINISHES PER FLOOR COATING MANUFACTURER'S RECOMMENDATIONS.
- SEE SHEET A-601 FOR PARTITION TYPES (REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL PARTITION IDENTIFICATION).
- 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, OFCI
A17	WALL-MOUNTED TV, OFCI, 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
A29	WOOD WORK BENCH
A30	GYM FLOOR 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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(816) 663-8700

FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

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

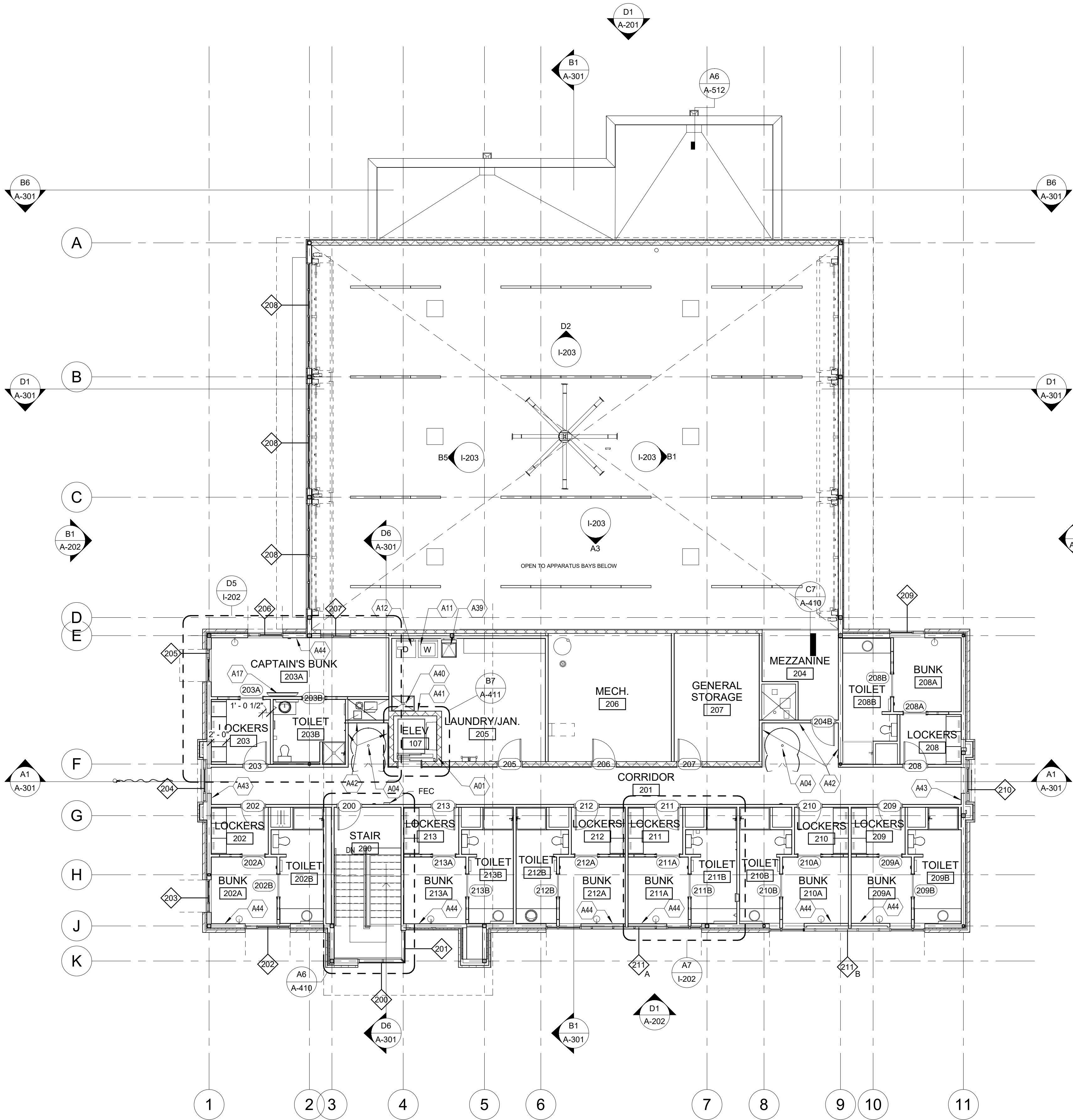
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FIRST FLOOR PLAN

A-101

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FILE PATH: BM 360/18225R21001_LeeSummitFireStation_# 4 and #5/LSMO_FIRE STATIONS.rvt



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

ARCH NOTES

- THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO THE SITE, AND THE STORAGE OF MATERIALS AND EQUIPMENT ON SITE WITH THE OWNER.
- THE GENERAL CONTRACTOR SHALL REPAIR DAMAGE TO ANY ADJACENT AREAS OCCURRING DURING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS TRASH AND OTHER MISCELLANEOUS MATERIALS FROM THE SITE DAILY.
- MAINTAIN EXIT PATHS FOR THE DURATION OF THE CONSTRUCTION.
- CONTRACTOR SHALL NOT REPRODUCE ANY PORTION OF A CONTRACT DRAWING FOR USE IN ANY PORTION OF A SUBMITTAL.
- ALL DIMENSIONS ARE FROM THE FACE OF STUD FRAMING, FACE OF MASONRY, FACE OF CONCRETE, OR CENTER LINE OF STRUCTURAL STEEL (U.N.O.).
- ALL DOORS ARE LOCATED 6 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.).
- COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES, ETC. PRIOR TO INSTALLATION OF FINISH MATERIAL.
- 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.).
- PROVIDE CONTROL JOINTS ON CONTINUOUS GYPSUM BOARD SURFACES IN EXCESS OF 30'-0", AT A MAXIMUM INCREMENT OF 30'-0" ON CENTER (U.N.O.).
- PROVIDE SEALANT IN FLOOR JOINTS OF EXPOSED FINISHES PER FLOOR COATING MANUFACTURER'S RECOMMENDATIONS.
- SEE SHEET A-601 FOR PARTITION TYPES (REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL PARTITION IDENTIFICATION).
- 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)
A11	HEAVY-DUTY RESIDENTIAL WASHER, OFCI
A12	HEAVY-DUTY RESIDENTIAL DRYER, OFCI
A17	WALL-MOUNTED TV, OFOI. BLOCKING AND TV BRACKET, CFCI
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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REVISIONS:

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

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CHK'D BY: GLW

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SECOND FLOOR PLAN

A-102

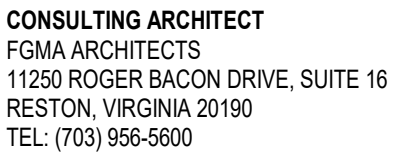
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PLAN NORTH

A diagram showing a circle with a vertical line and a dashed line. A key indicates the direction of the dashed line.

- 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 6 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.
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- J. PROVIDE CONTJOINT JOINTS ON CONTINUOUS GYPSUM BOARD SURFACES IN EXCESS OF 30'-0", AT A MAXIMUM INCREMENT OF 30'-0" ON CENTER (U.N.O.).
- 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).
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6	ASI 06	02/22/2023



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MO# A-2018024473

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FIRST FLOOR DIMENSION PLAN

A-103

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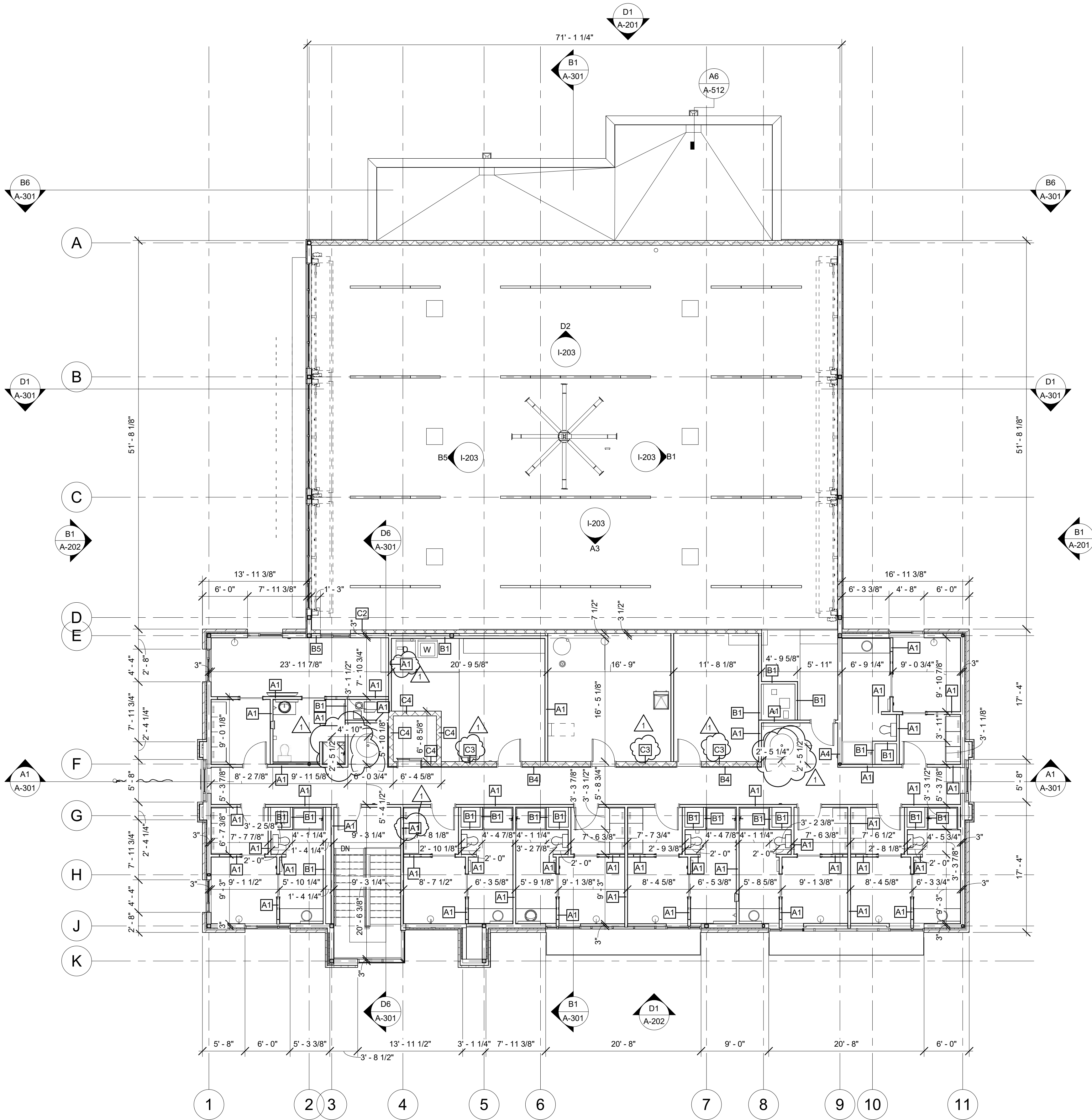
E

D

C

B

A



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



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#	Description	Date
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MO# A-2009021701

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SECOND FLOOR
DIMENSION PLAN

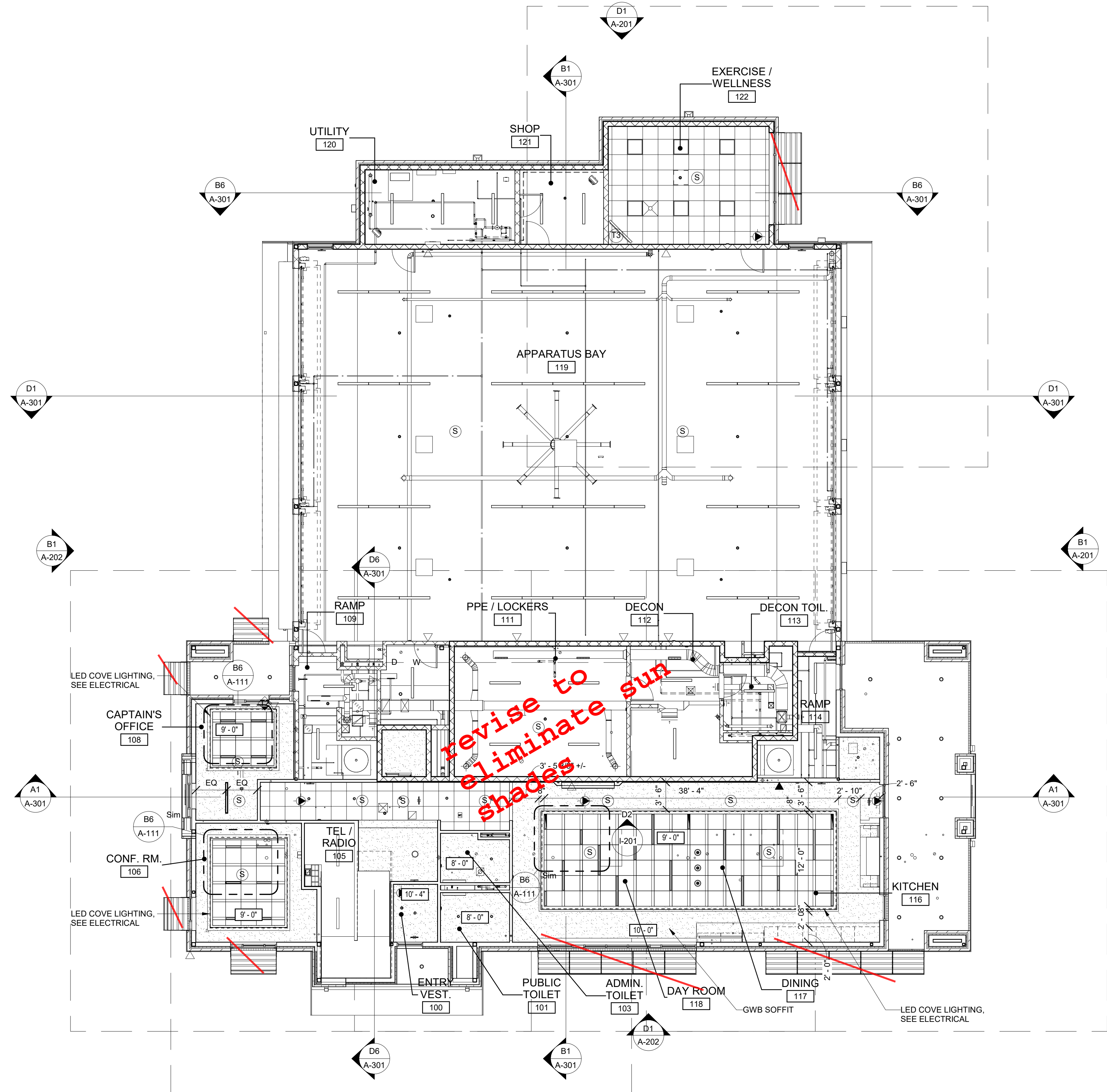
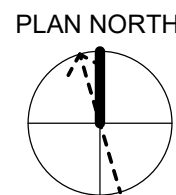
A-104

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A1 LEVEL 1 CEILING PLAN

1/8" = 1'-0"

0 4' 8' 16'



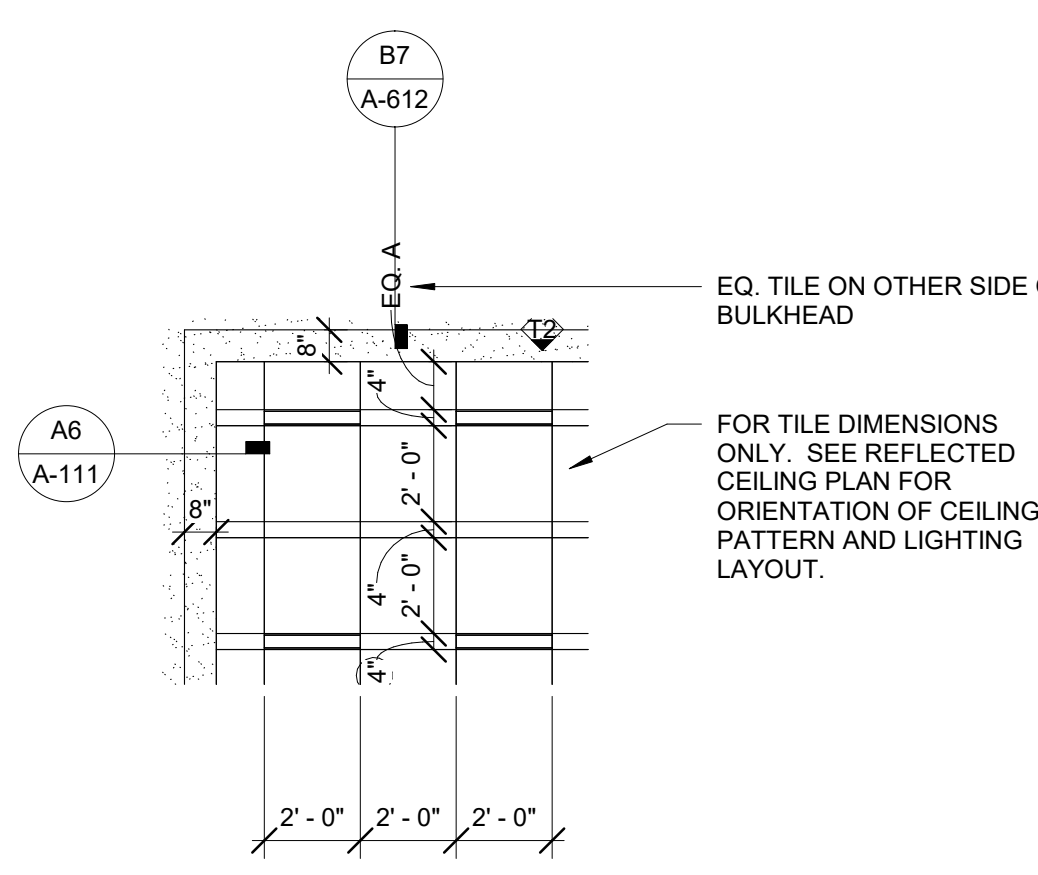
Revise to eliminate sun shades

CEILING PLAN LEGEND

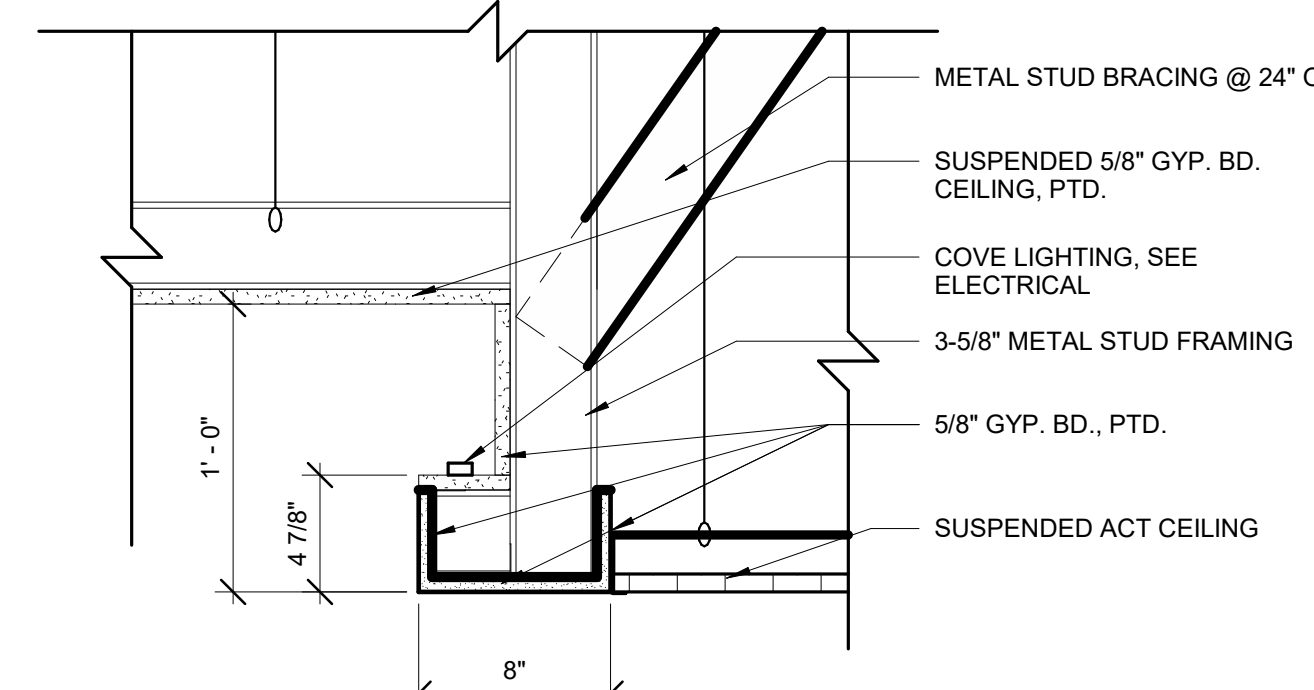
	PLASTER, GYPSUM OR PORTLAND CEMENT		LIGHT FIXTURE, RECESSED FLUORESCENT A (2x4)
	TILE, ACOUSTICAL CEILING		LIGHT FIXTURE, RECESSED FLUORESCENT B (1x4)
	SHEET METAL		LIGHT FIXTURE, RECESSED FLUORESCENT C (1x8)
	CEILING ELEVATION TAG		LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT A (2x4)
	PENDANT HEAD SPRINKLERS		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-610 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.



B6 BULKHEAD CEILING DETAIL



A6 BULKHEAD AND COVE DETAIL



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CHK'D BY:	PJM

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FIRST FLOOR
REFLECTED
CEILING PLAN

A-111

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E

D

C

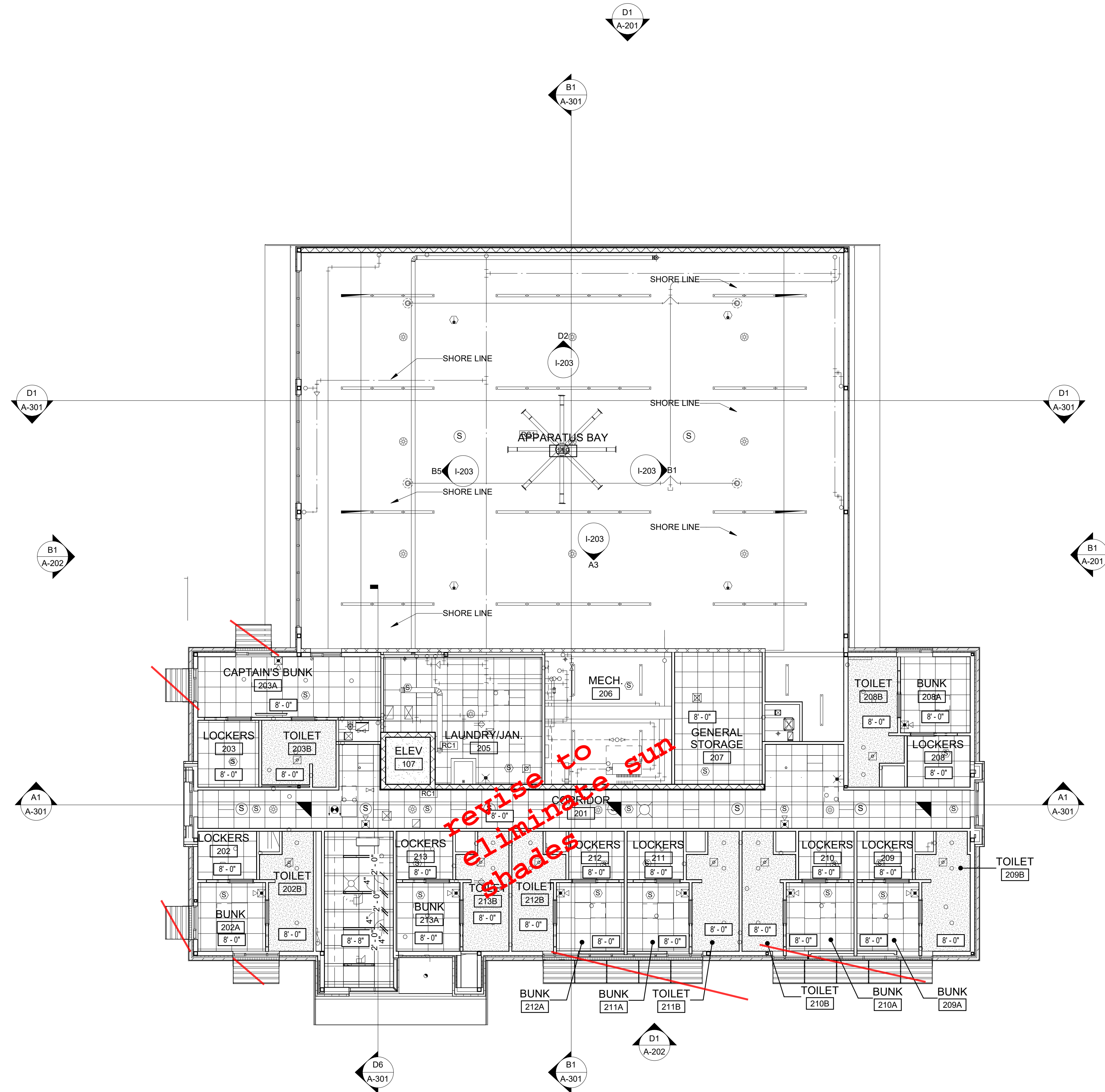
B

A

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\"/>		
	LIGHT FIXTURE, 2' LED LINEAR RECESSED BASIS OF DESIGN: MANUFACTURER = FOCAL POINT MODEL = SEEM 4, 1.5\"/>		

SHEET NOTES

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FIRE STATION #4
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5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

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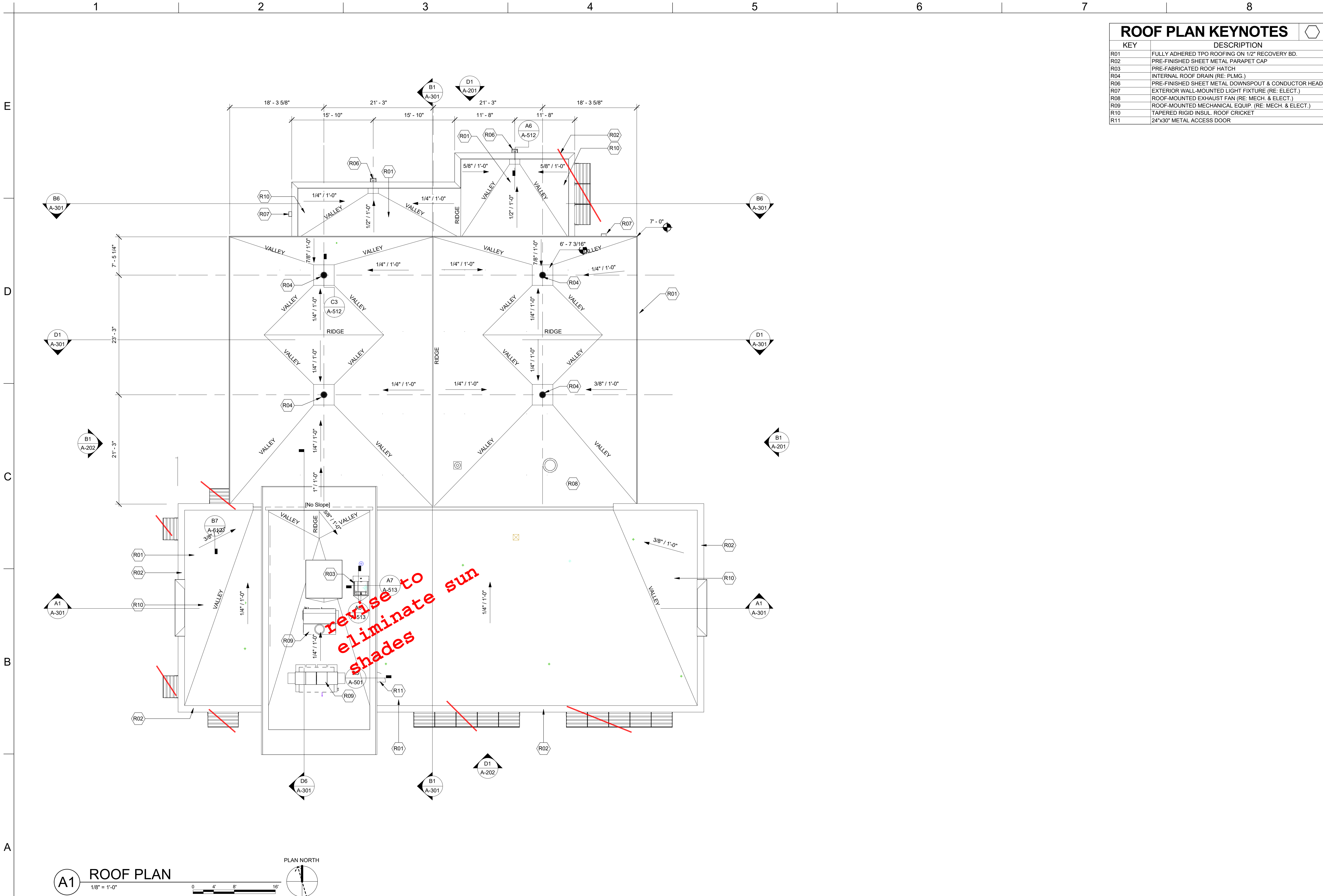
PROJECT NO: 18225R21001
DATE: 11.21.2022
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CHK'D BY: PJM

SECOND FLOOR
REFLECTED
CEILING PLAN

A-112

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FILE PATH: BIM 360://18225R21001_LeeSummitFireStation_# 4 and #5/LSMO_FIRE STATIONS.rvt



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.)
R06	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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DRAWN BY:	JSP
CHK'D BY:	PJM

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ROOF PLAN

A-121

E

D

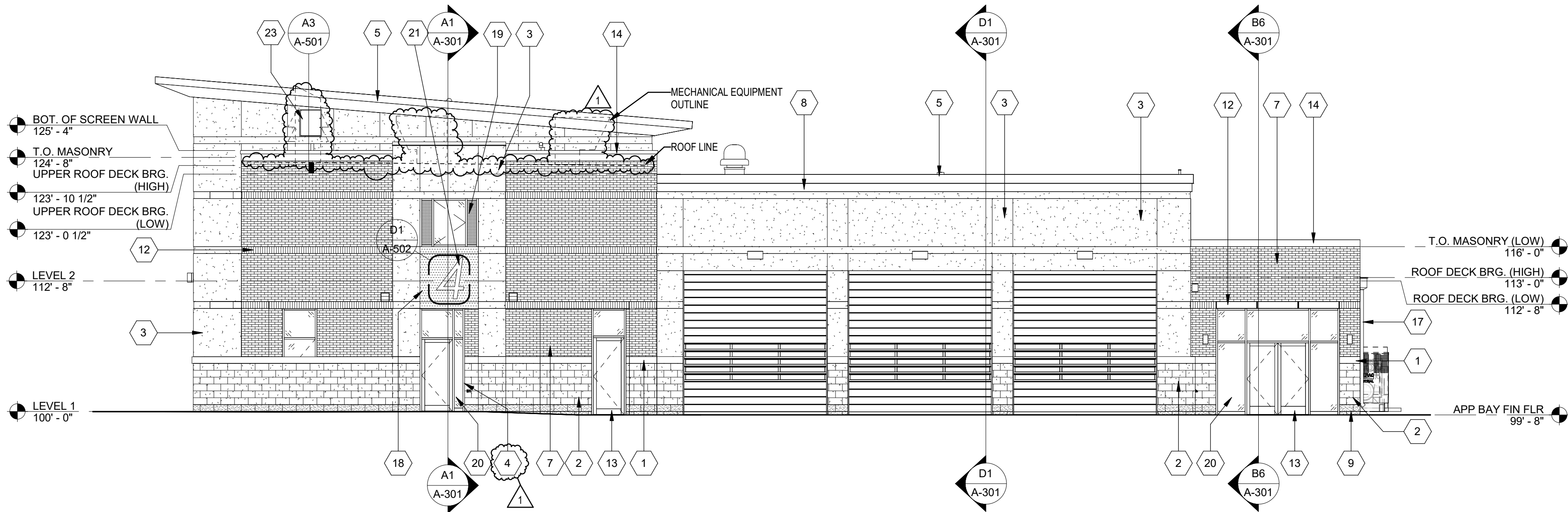
C

B

A

12345678

D1 NORTH ELEVATION
1/8" = 1'-0"



B1 EAST ELEVATION
1/8" = 1'-0"

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
15	PRE-FINISHED SHEET METAL CANOPY
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
21	BACKLIT PIN-MOUNTED PRE-FINISHED METAL SIGNAGE
22	WALL HYDRANT (RE: PLMG)
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

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BUILDING ELEVATIONS

A-201

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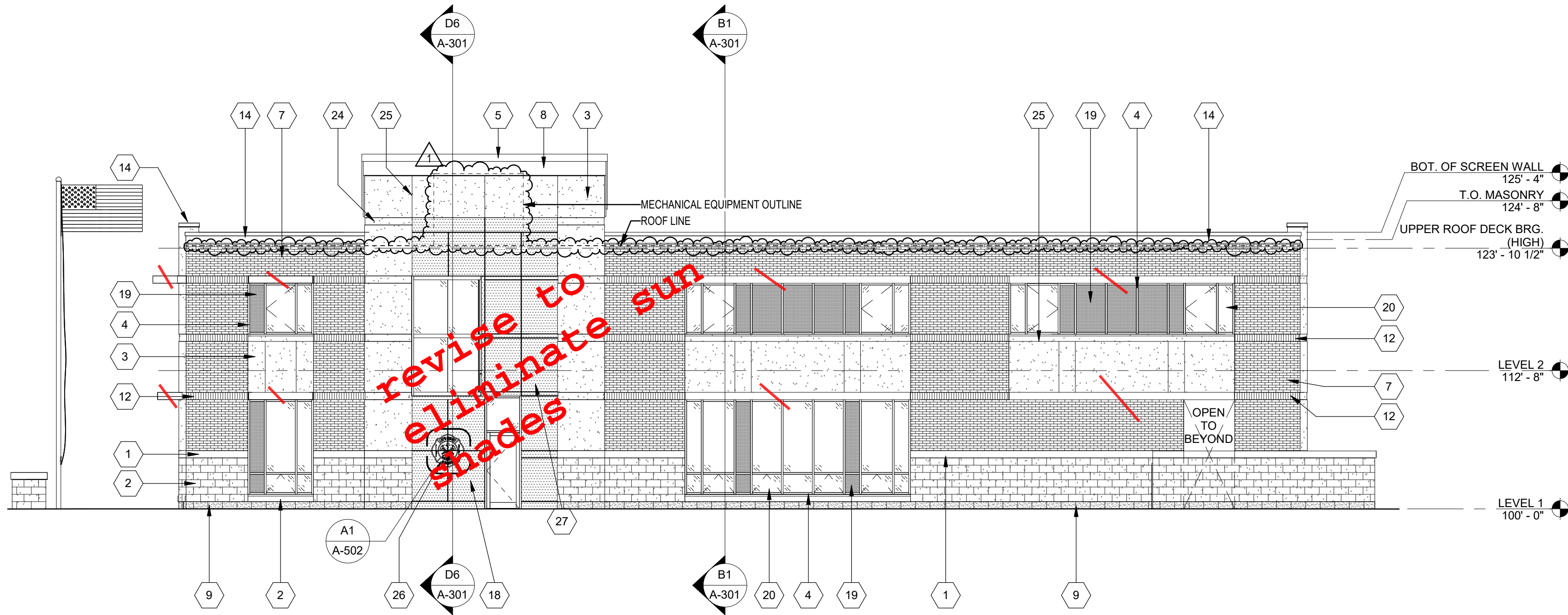
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D

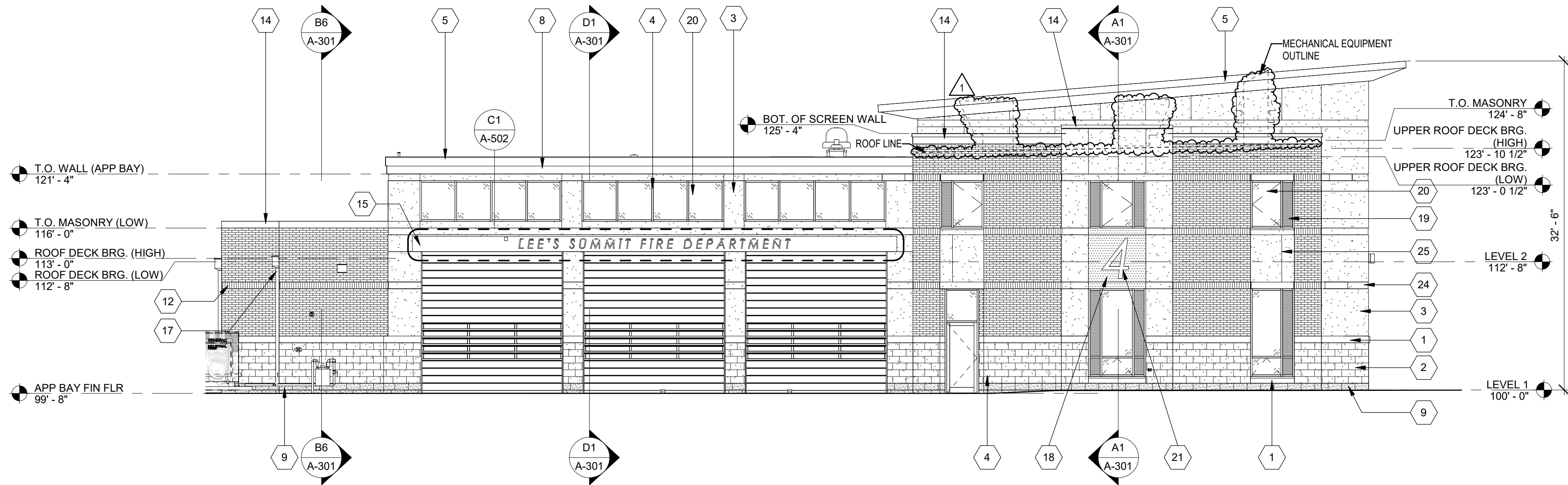
C

B

A



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



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

BUILDING ELEVATION...	
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1	CAST STONE MASONRY SILL
2	ANCHORED STONE MASONRY VENEER (TYPE 1)
3	EIFS
4	PRE-FINISHED ALUMINUM-FRAMED STOREFRONT
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6	PRE-FINISHED ALUMINUM-FRAMED STOREFRONT
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12	4" MASONRY VENEER (SOLDIER)
13	PRE-FINISHED ALUMINUM-FRAMED ENTRANCE
14	PRE-FINISHED SHEET METAL PARAPET CAP
15	PRE-FINISHED SHEET METAL CANOPY steel sign. see detail
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
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23	24"x30" METAL ACCESS DOOR
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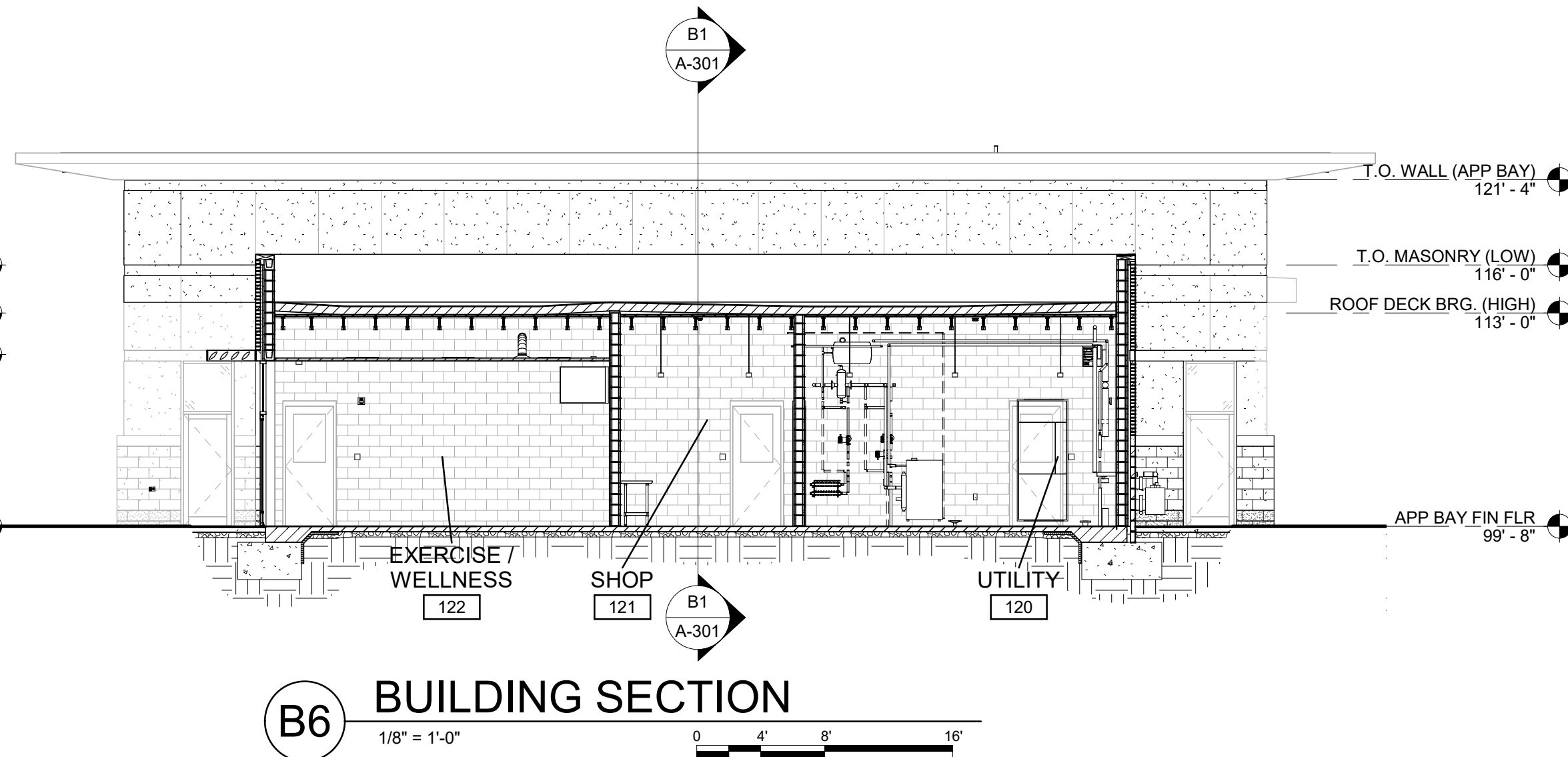
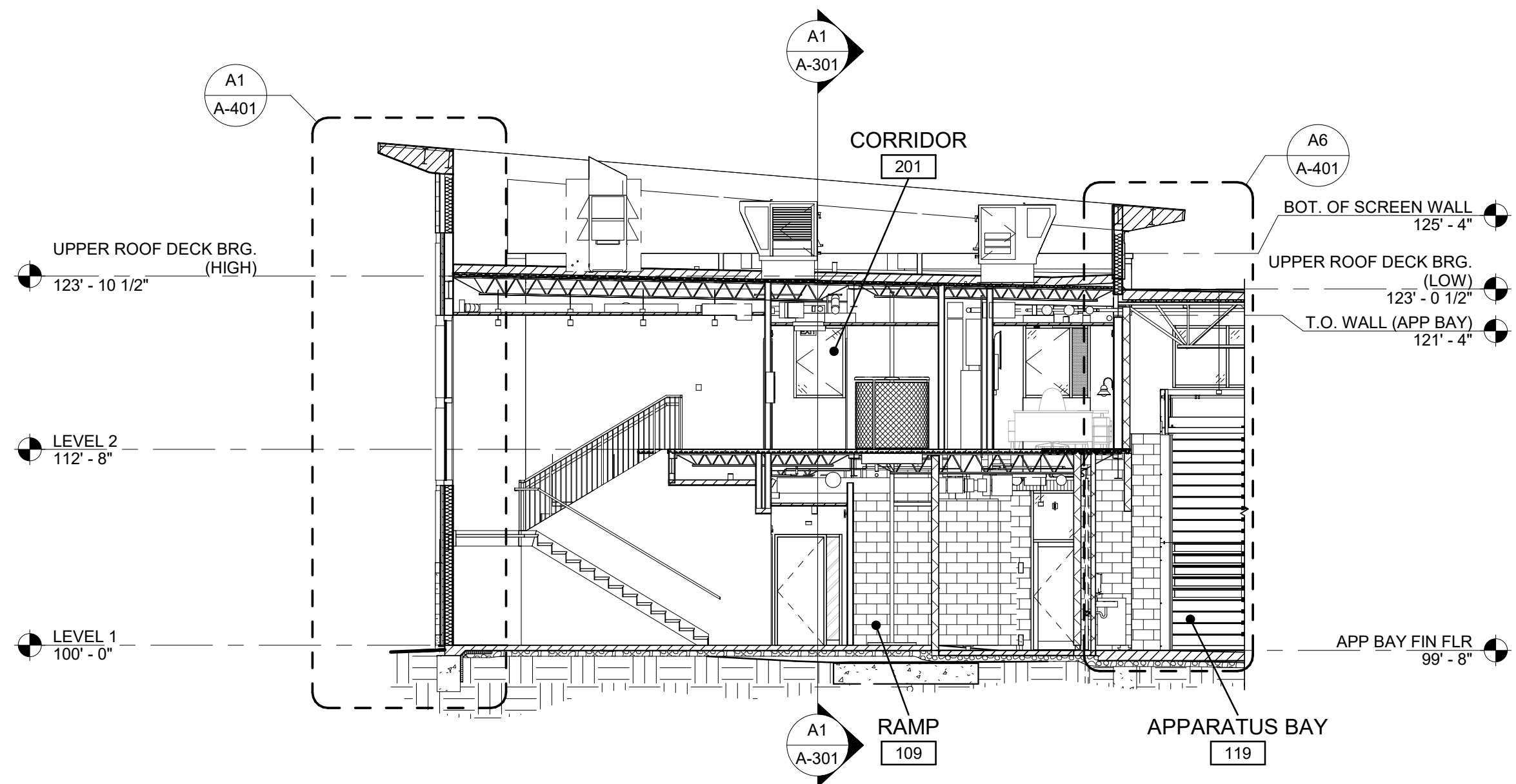
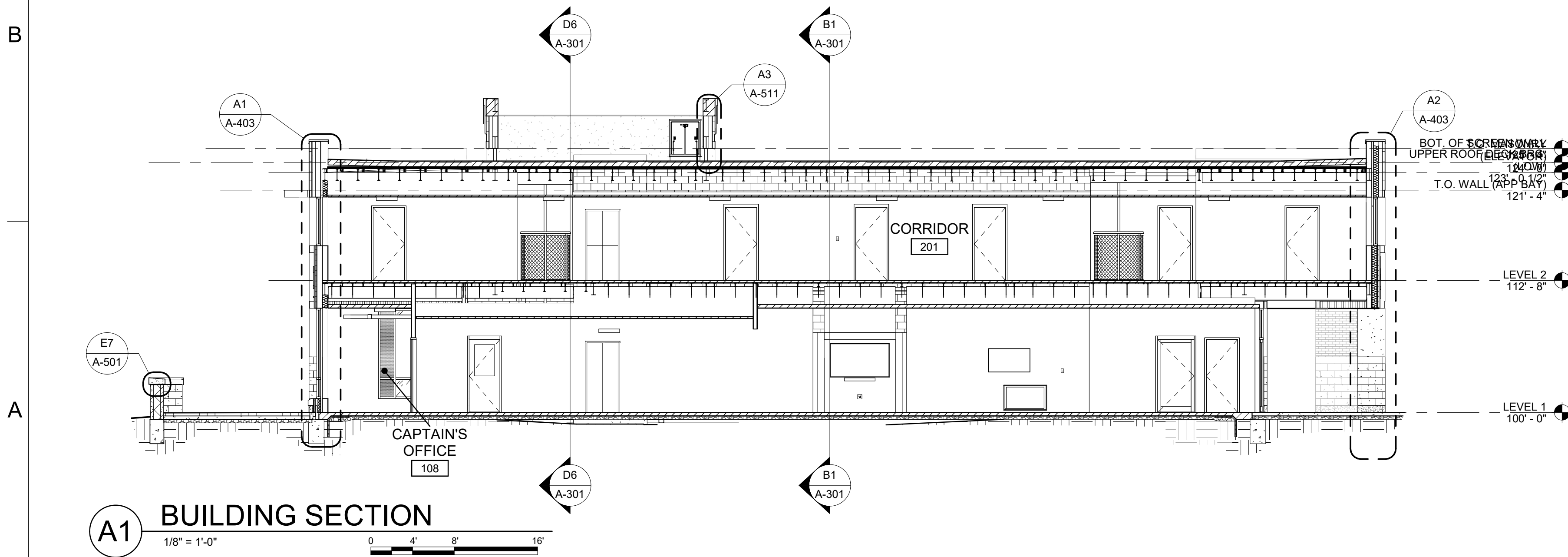
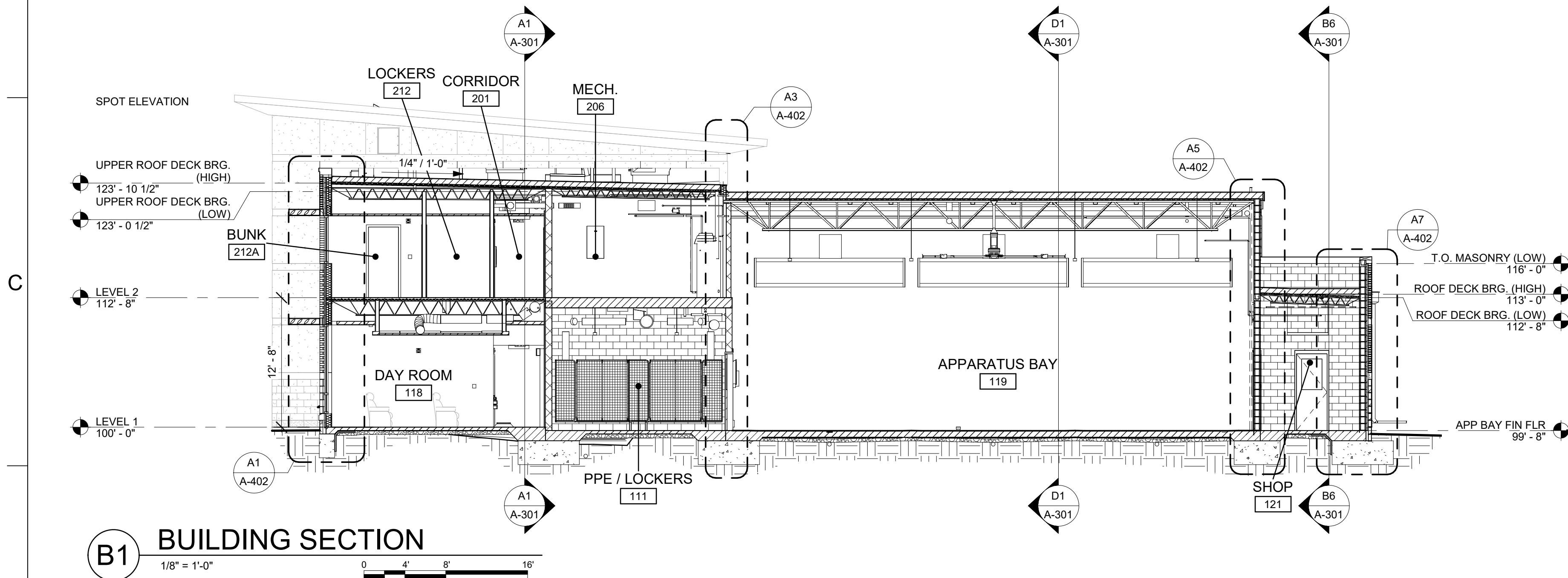
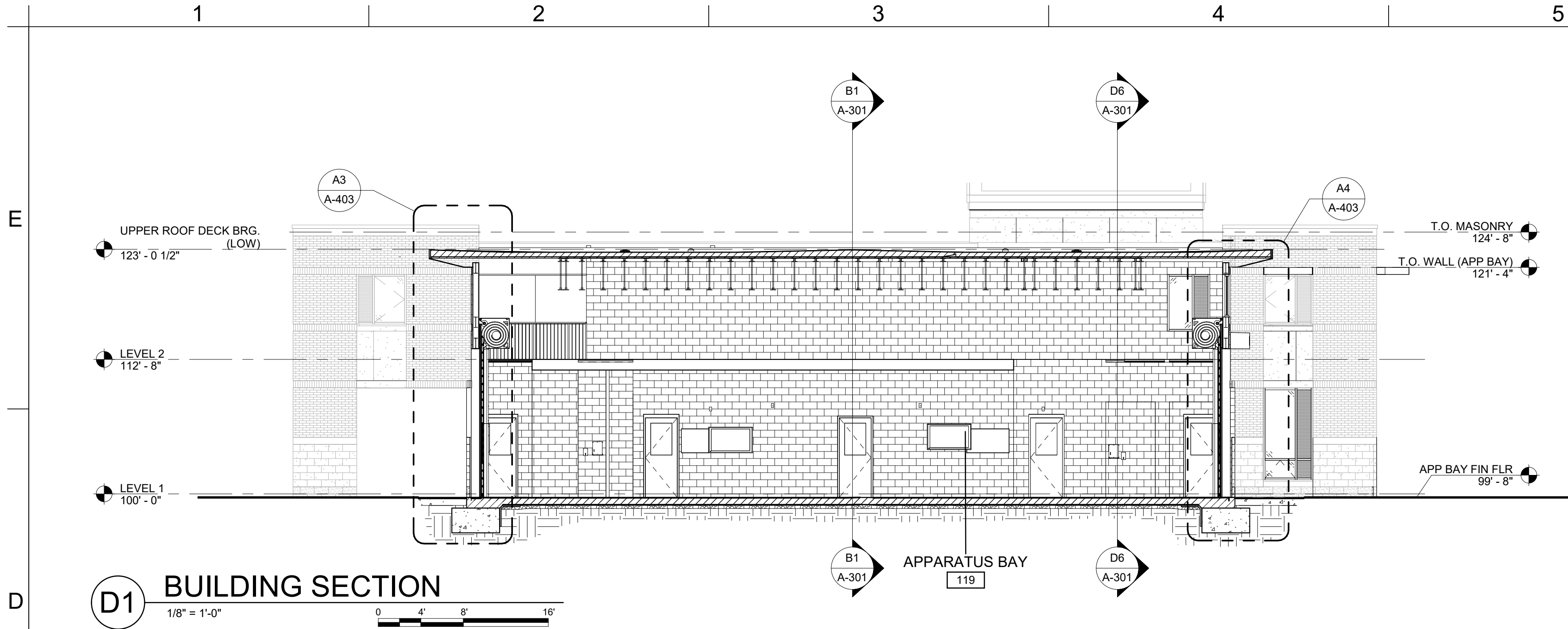
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BUILDING ELEVATIONS

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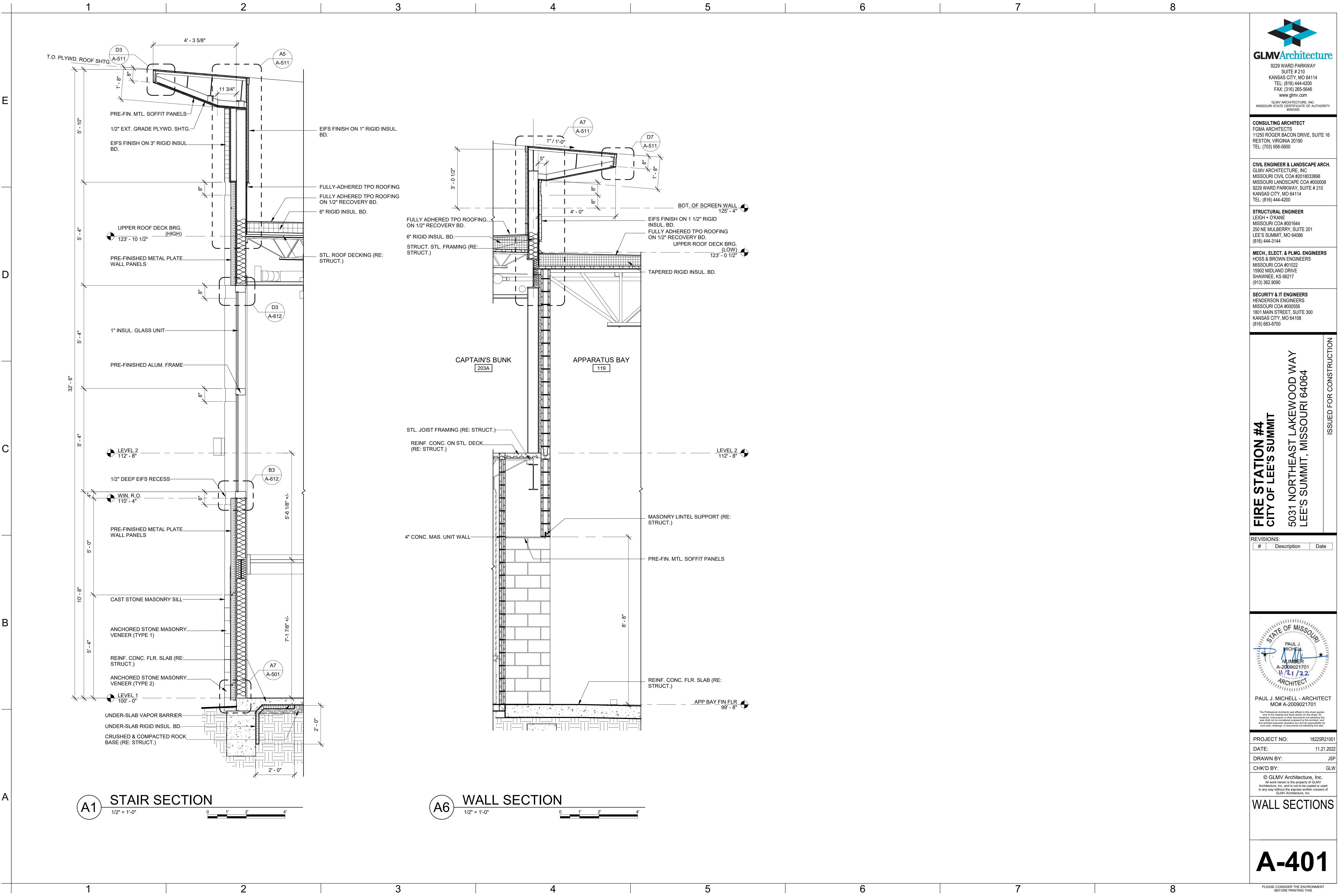
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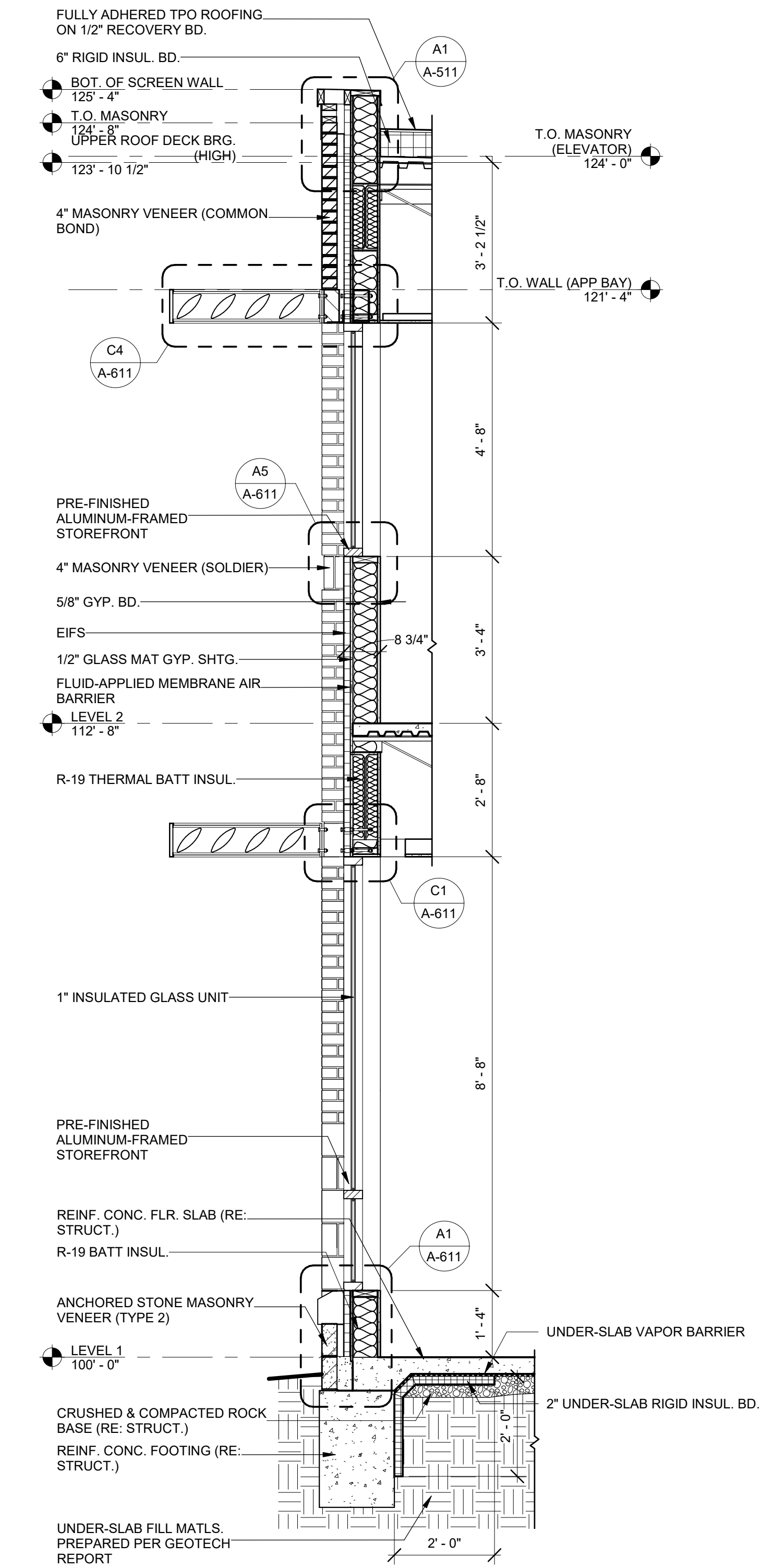
WALL SECTIONS

A-401

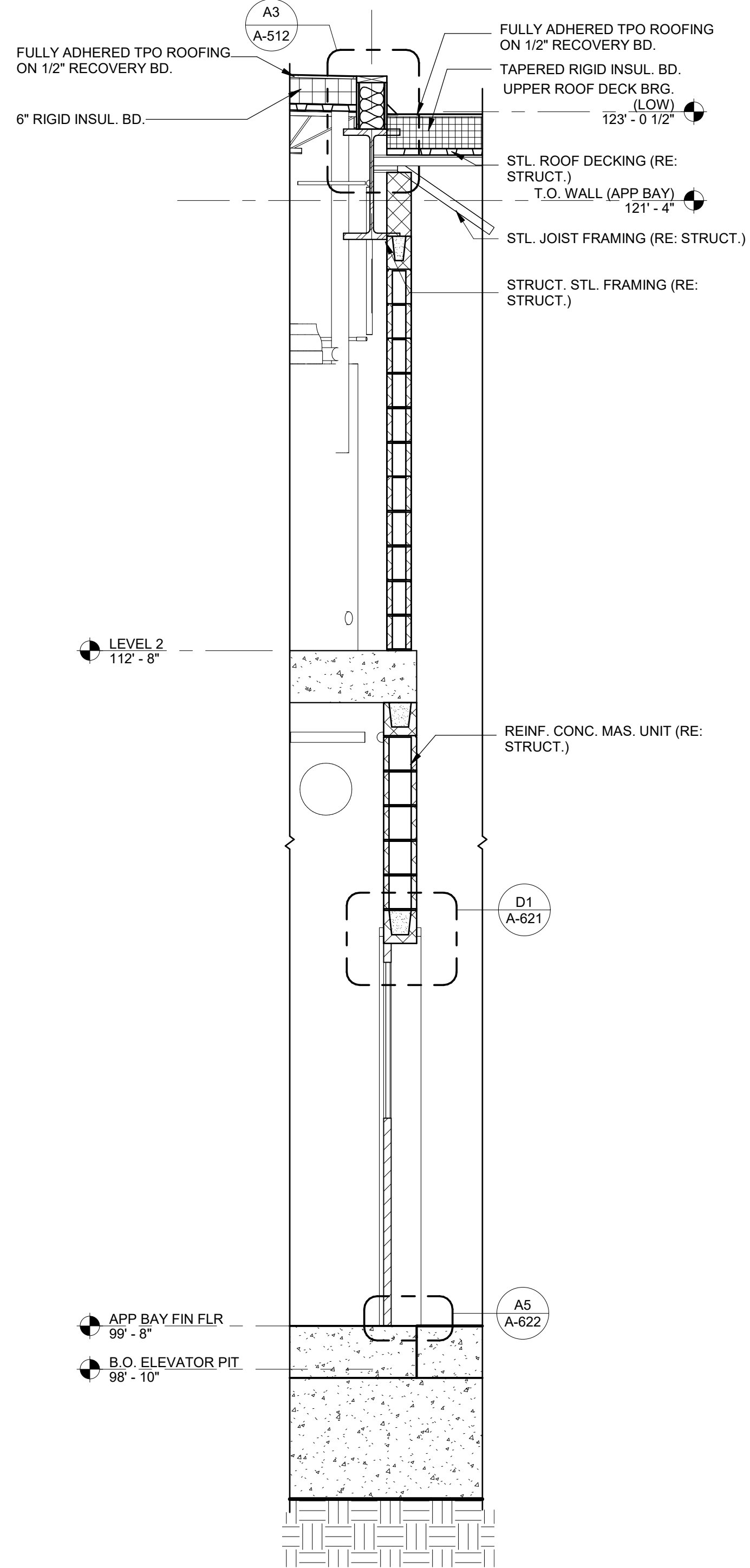
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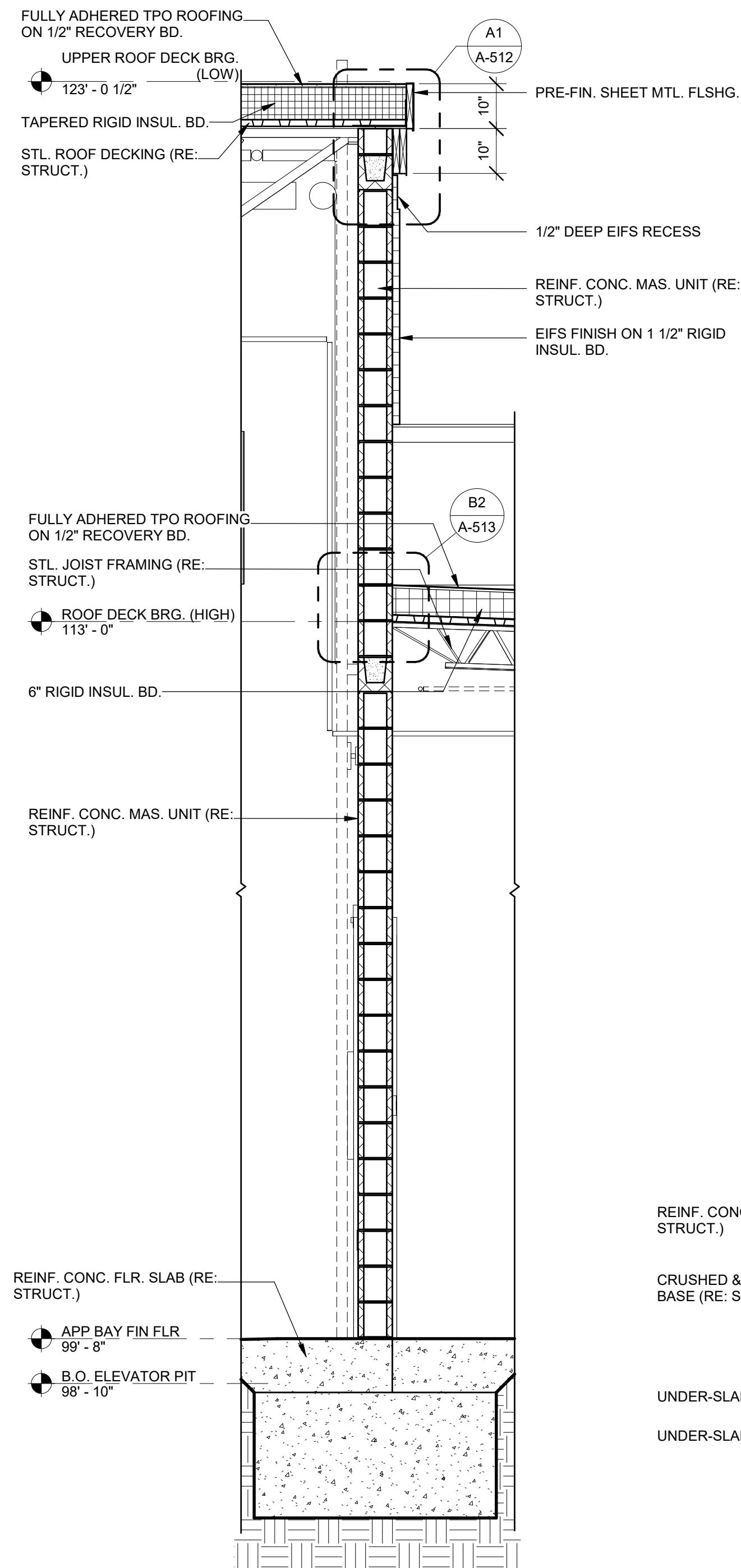
E
D
C
B
A



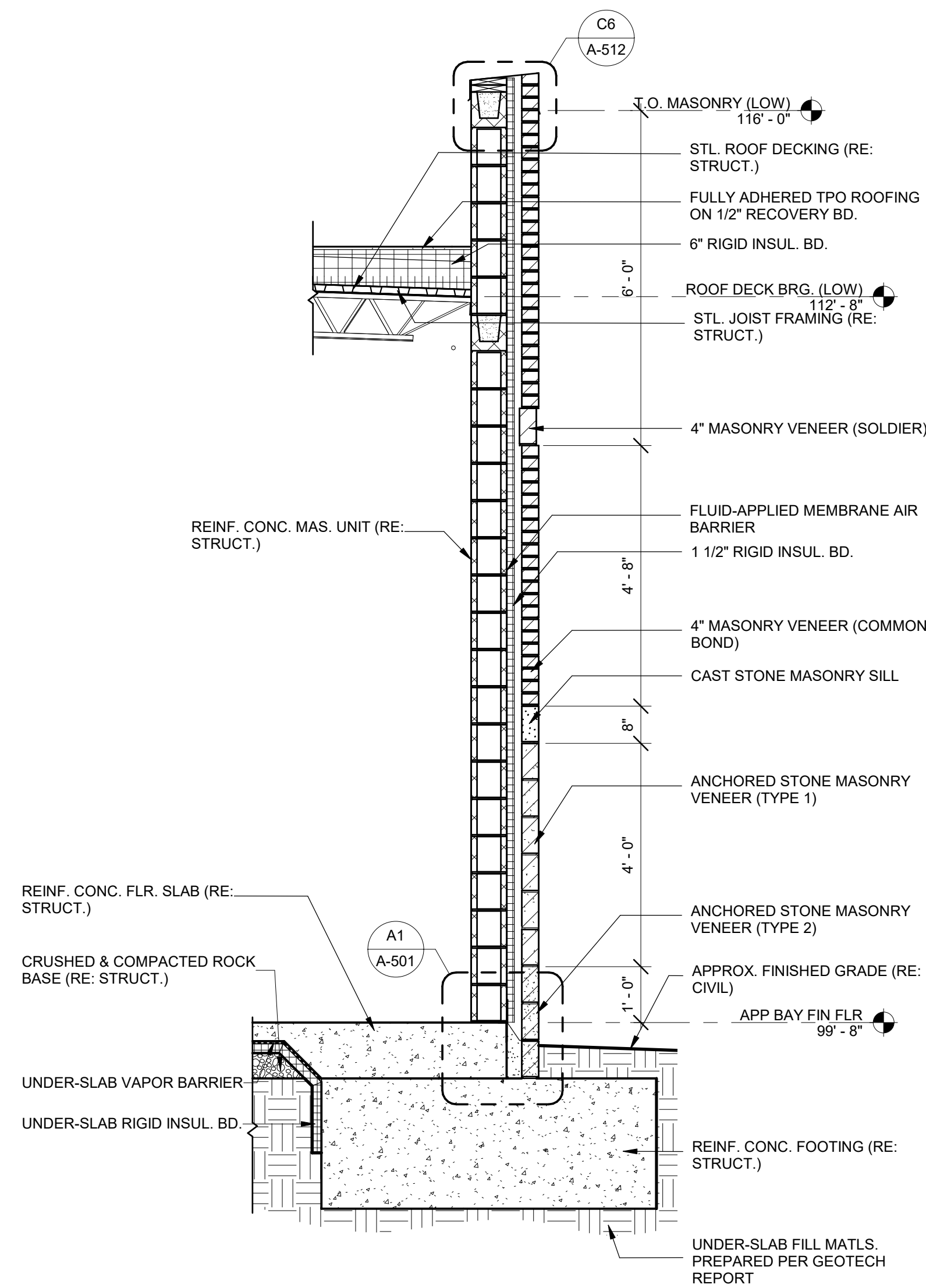
A1 WALL SECTION
1/2" = 1'-0"
0 1' 2' 4'



A3 WALL SECTION
1/2" = 1'-0"
0 1' 2' 4'



A5 WALL SECTION
1/2" = 1'-0"
0 1' 2' 4'



A7 WALL SECTION
1/2" = 1'-0"
0 1' 2' 4'



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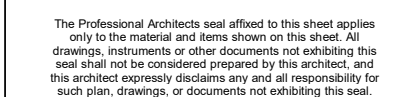
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WALL SECTIONS

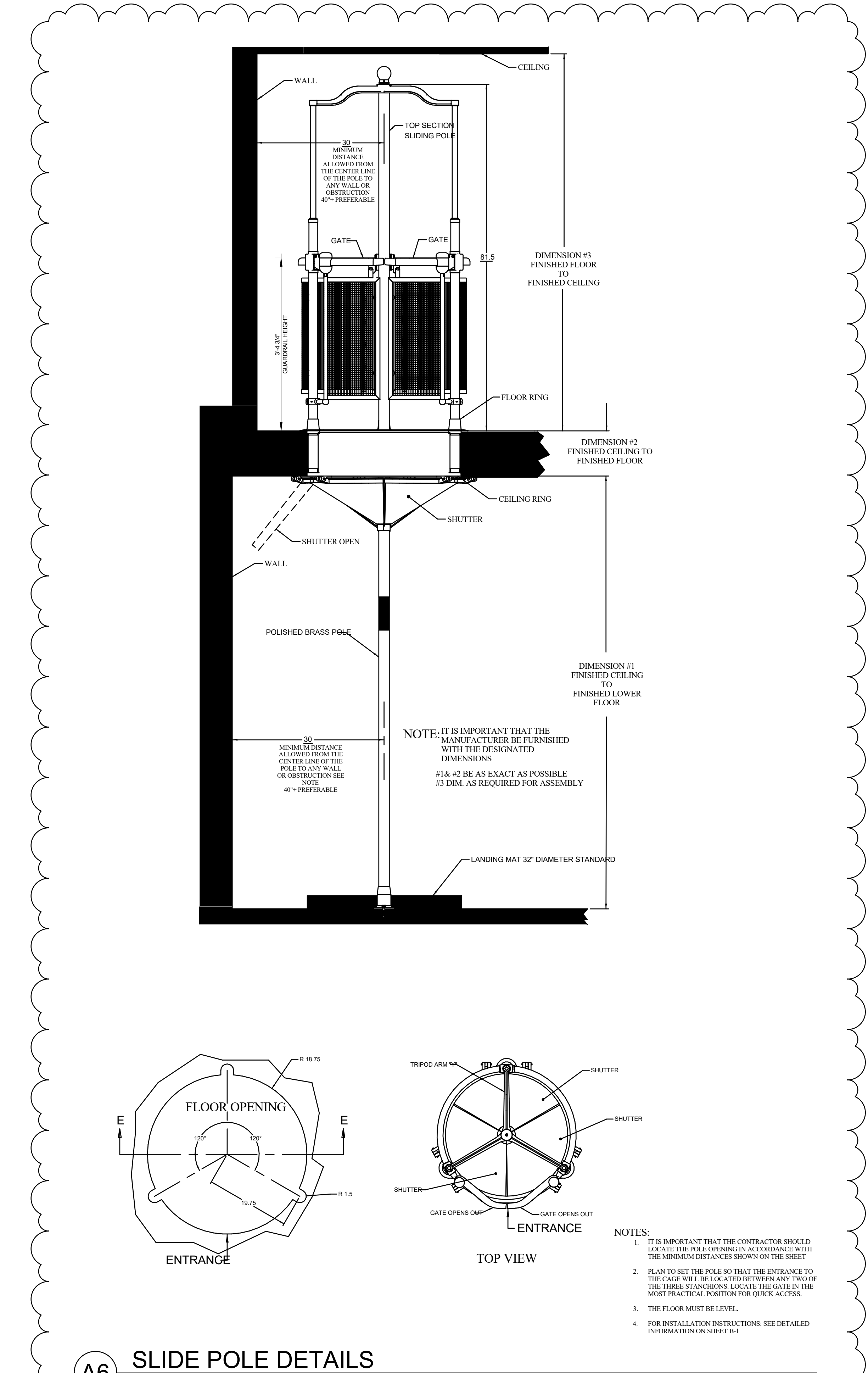
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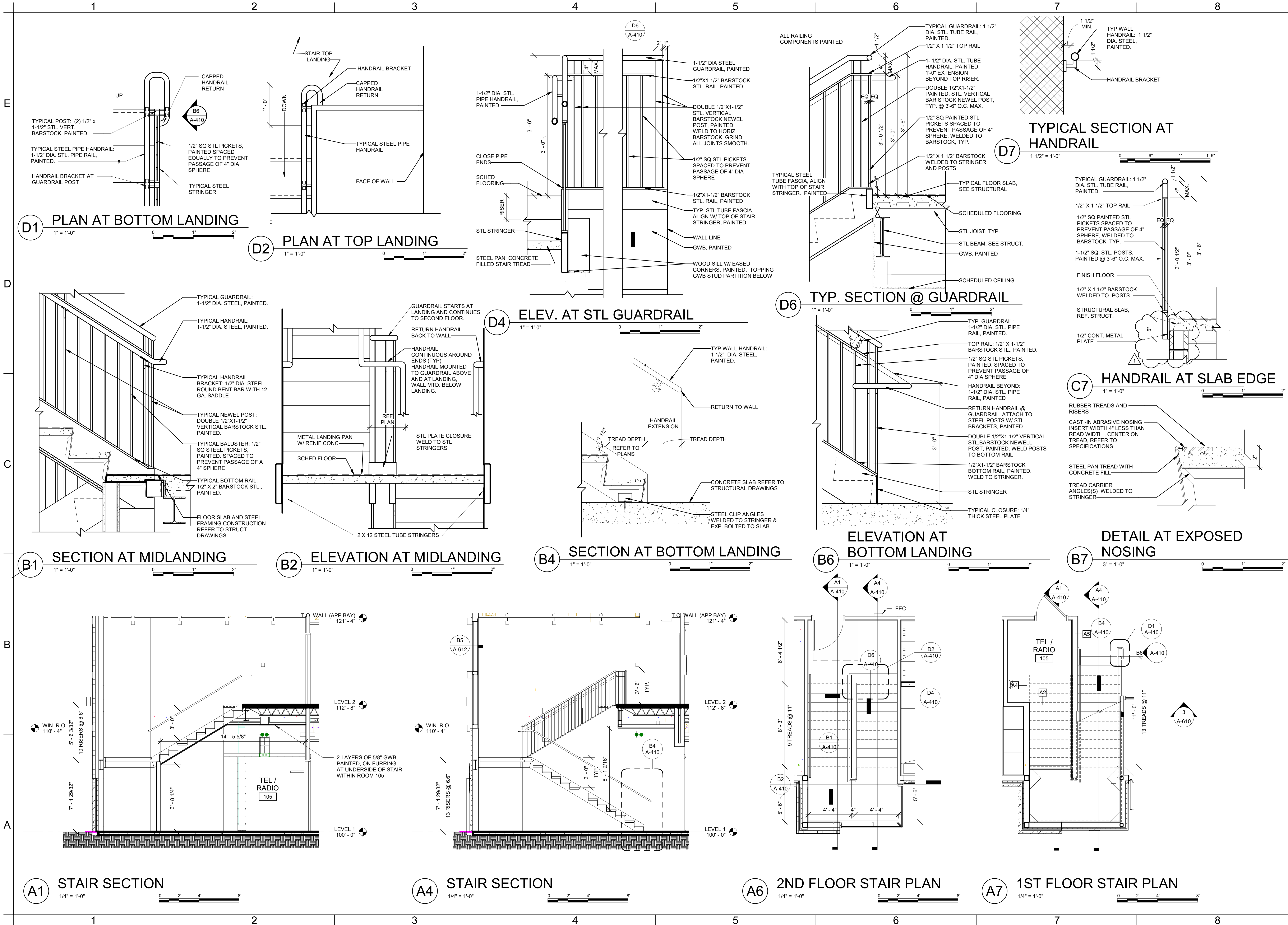
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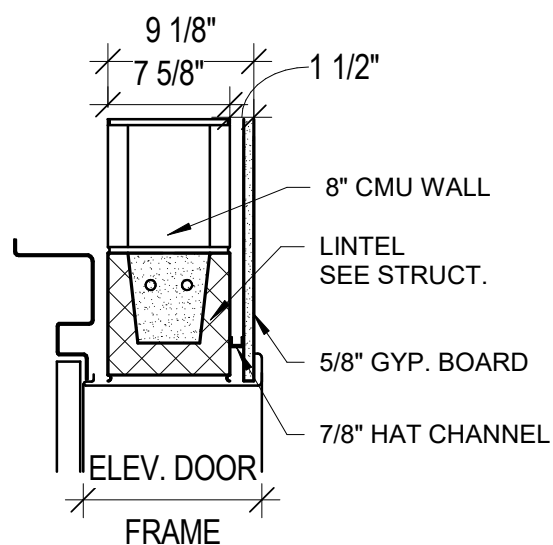
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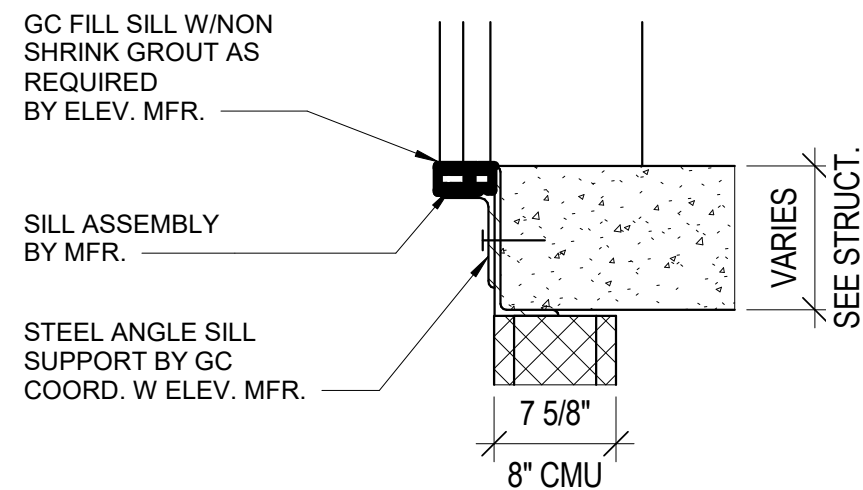
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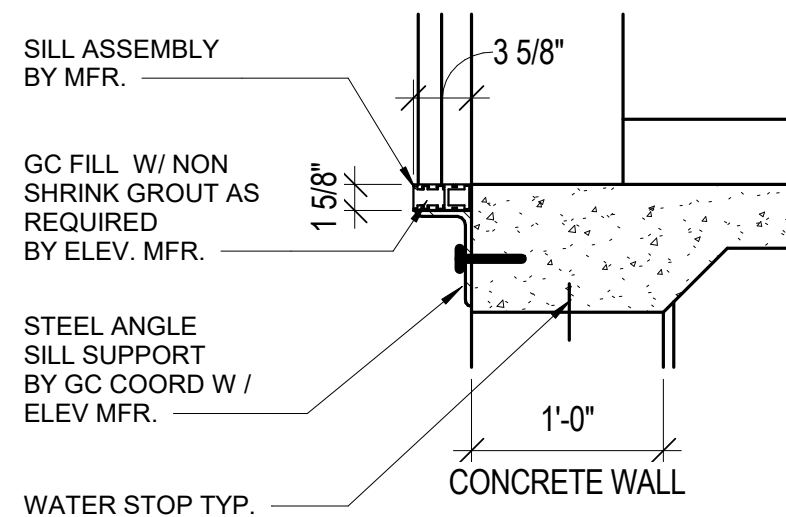
ELEVATOR DOOR
HEAD - TYP.

C5



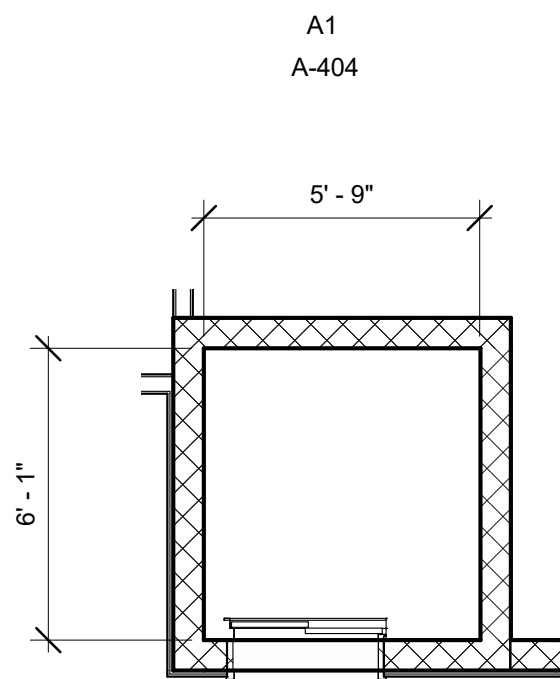
ELEVATOR - DOOR SILL TYP.

B5



ELEVATOR DOOR SILL
1ST FLOOR

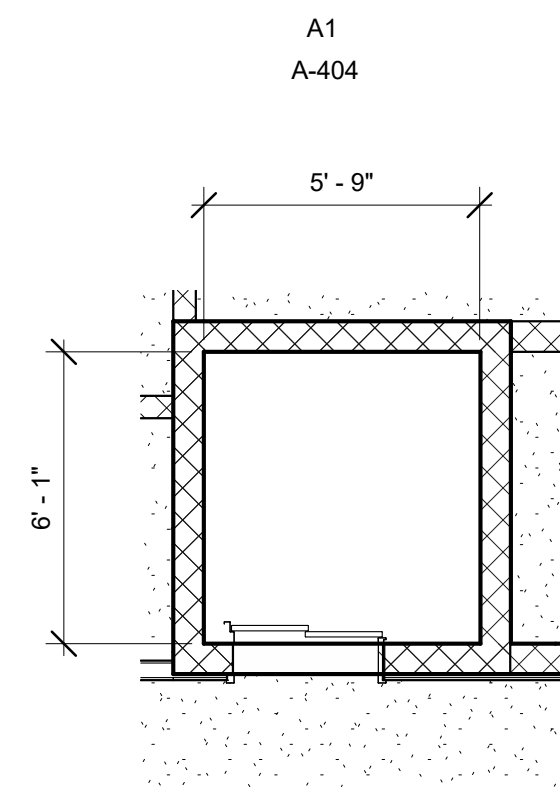
A5



ENL. ELEVATOR PLAN -
2ND FLOOR

B7

1/4" = 1'-0" 0 2' 4' 8'



ENL. ELEVATOR PLAN -
1ST FLOOR

A7

1/4" = 1'-0" 0 2' 4' 8'



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MO# A-2009021701

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PROJECT NO: 18225R21001

DATE: 11.21.2022

DRAWN BY: KSK

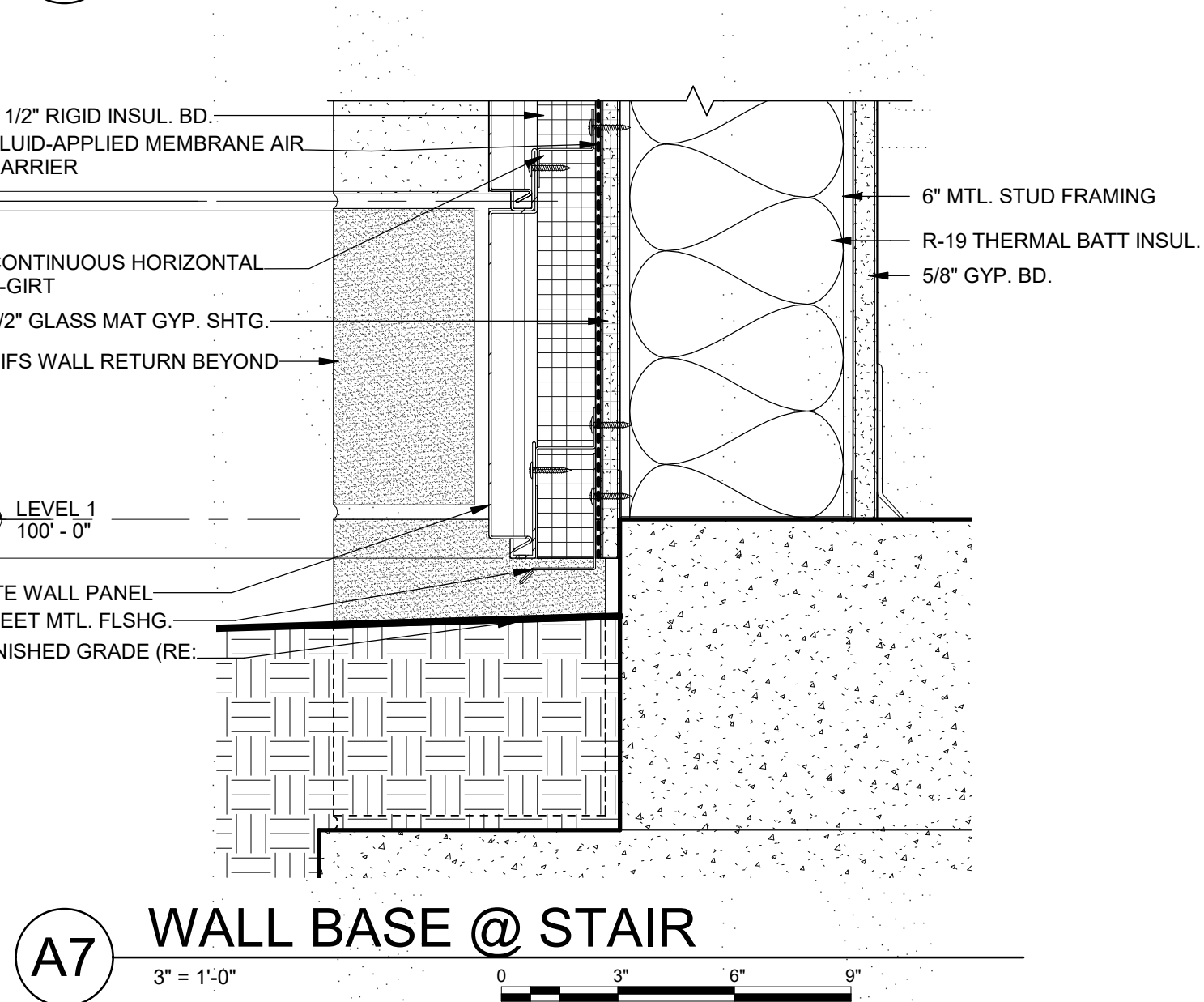
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**ENLARGED
ELEVATOR PLAN**

A-411

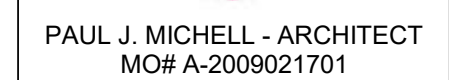
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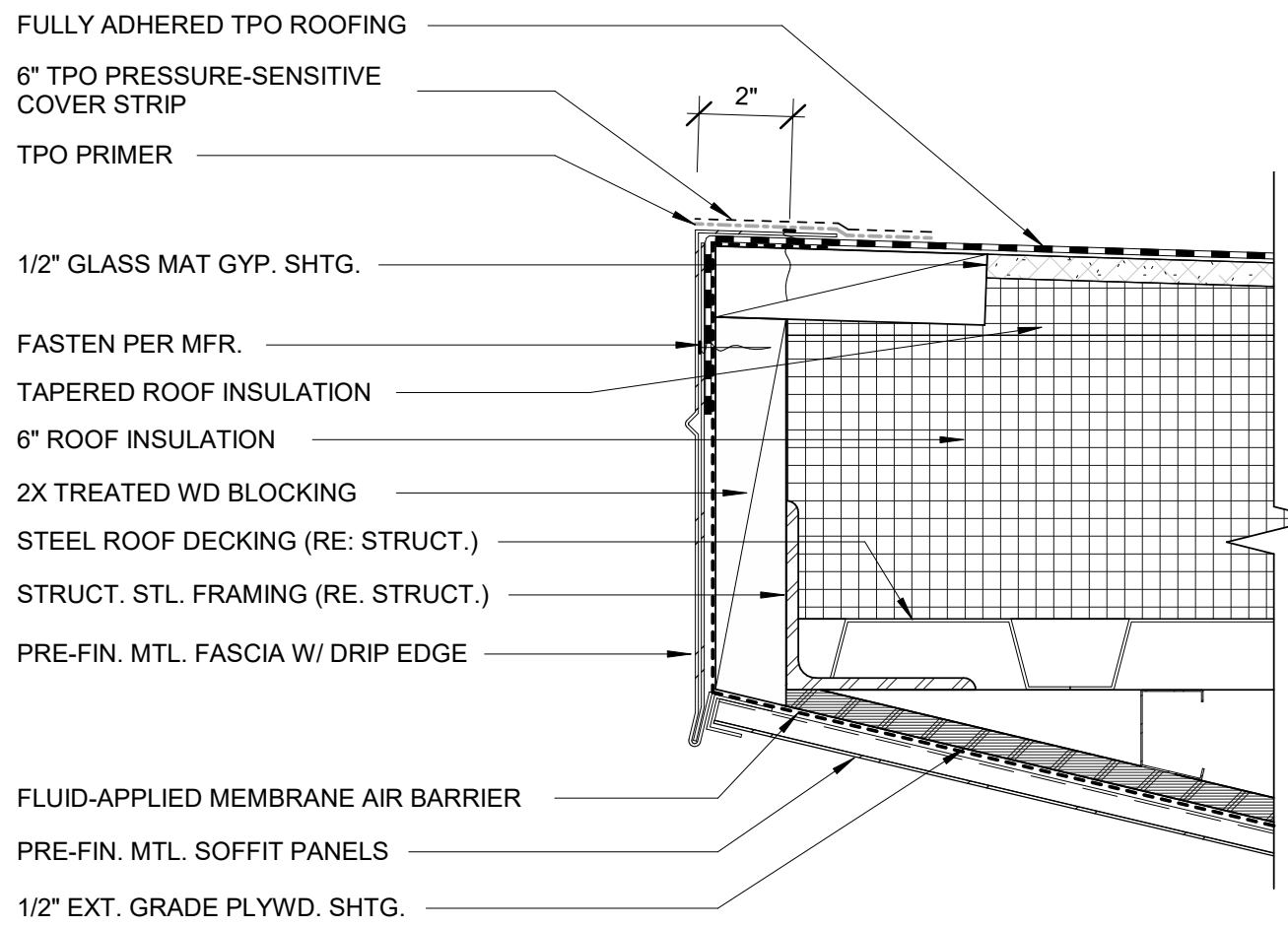
PROJECT NO:	18225R21001
DATE:	11.21.2022
DRAWN BY:	JSP
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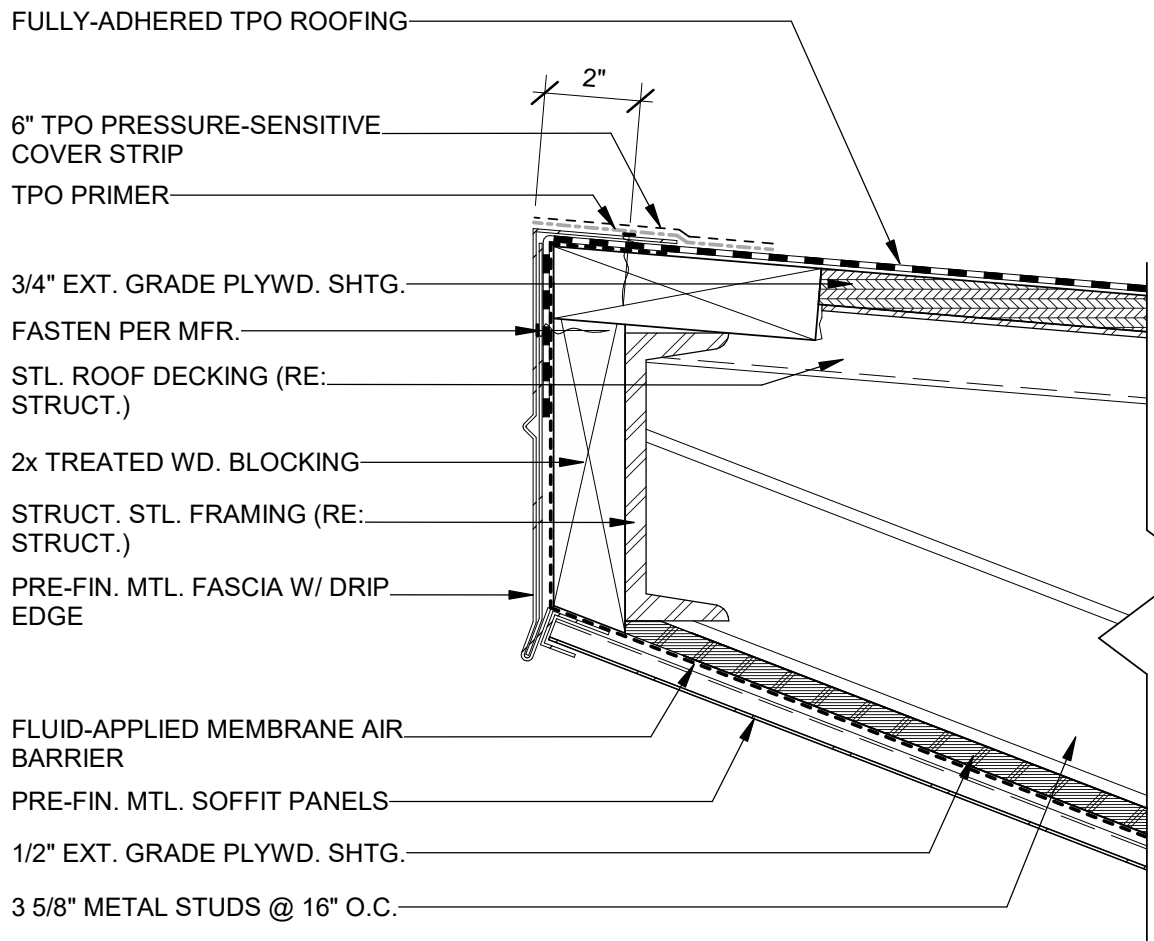
WALL DETAILS

A-502

E
D
C
B
A



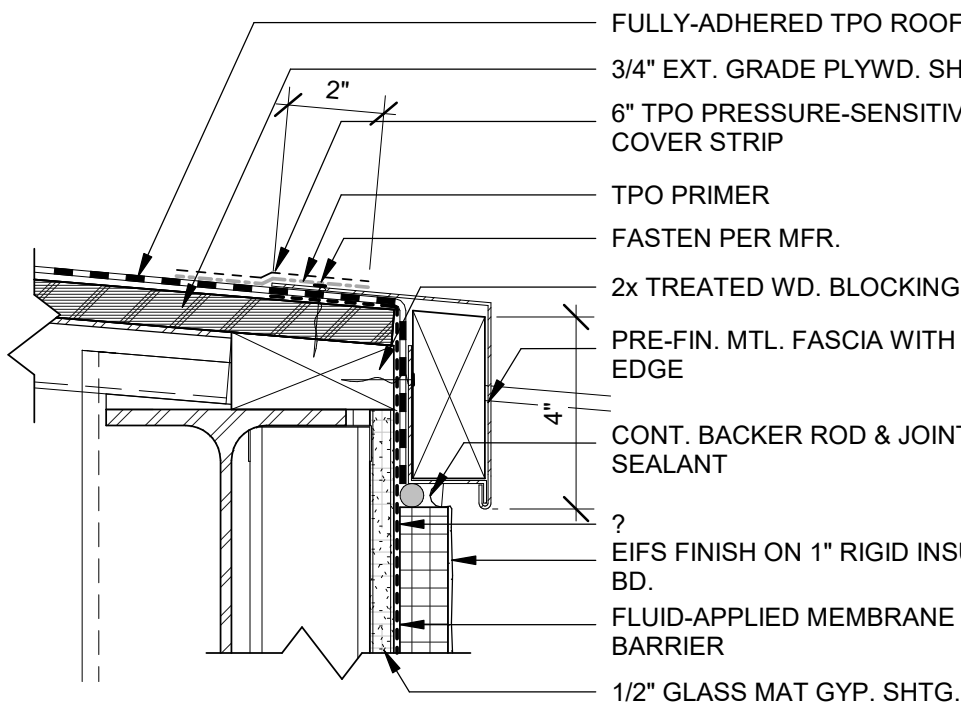
D1 ROOF - APP BAY (EAVE)
3" = 1'-0"



D3 ROOF EAVE DETAIL
3" = 1'-0"

DETAIL NOTES:

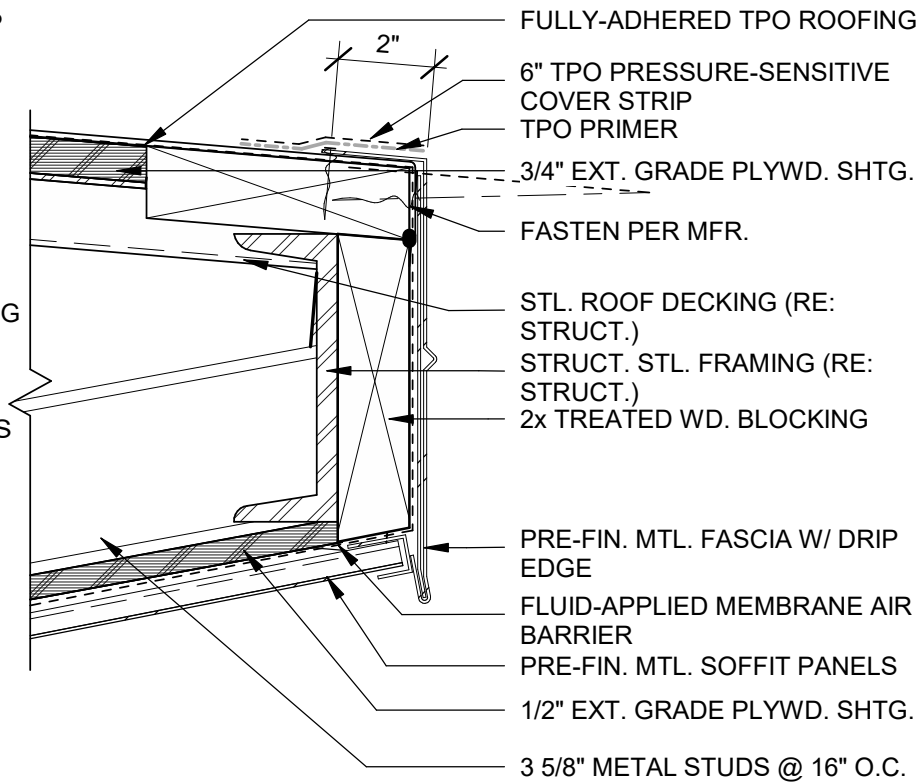
- METAL FASCIA DECK FLANGE TO BE COMPLETELY COVERED BY TPO PRESSURE-SENSITIVE COVER STRIP WITH MINIMUM 2" COVERAGE PAST NAIL HEADS.
- WOOD BLOCKING TO EXTEND PAST TOTAL WIDTH OF METAL FASCIA DECK FLANGE.
- REMOVE ANY FINISHING OILS ON METAL FLASHING PER TPO MFR. (ALLOW TO DRY PRIOR TO APPLYING TPO PRIMER).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



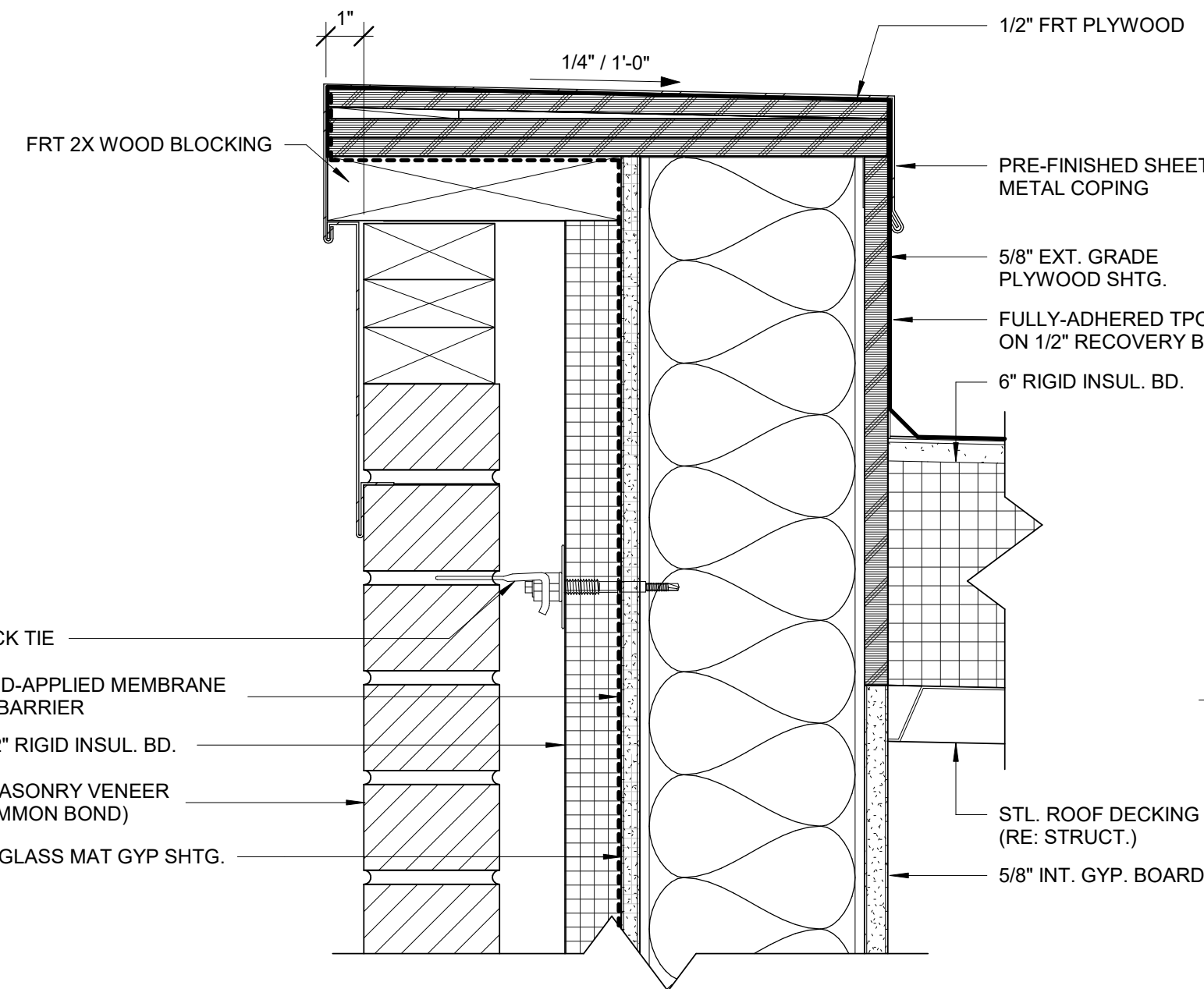
D5 ROOF EDGE DETAIL
3" = 1'-0"

DETAIL NOTES:

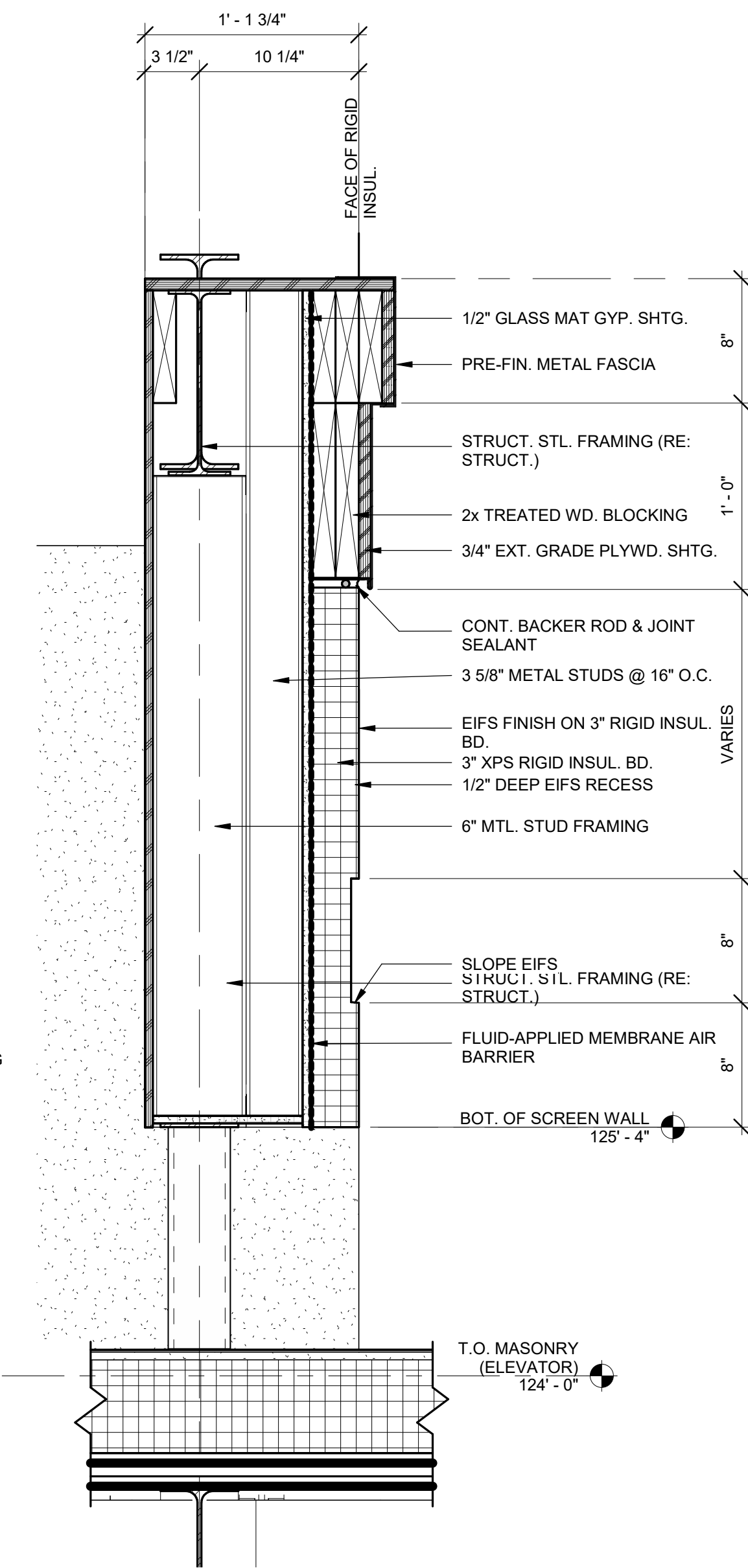
- METAL FASCIA DECK FLANGE TO BE COMPLETELY COVERED BY TPO PRESSURE-SENSITIVE COVER STRIP WITH MINIMUM 2" COVERAGE PAST NAIL HEADS.
- WOOD BLOCKING TO EXTEND PAST TOTAL WIDTH OF METAL FASCIA DECK FLANGE.
- REMOVE ANY FINISHING OILS ON METAL FLASHING PER TPO MFR. (ALLOW TO DRY PRIOR TO APPLYING TPO PRIMER).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



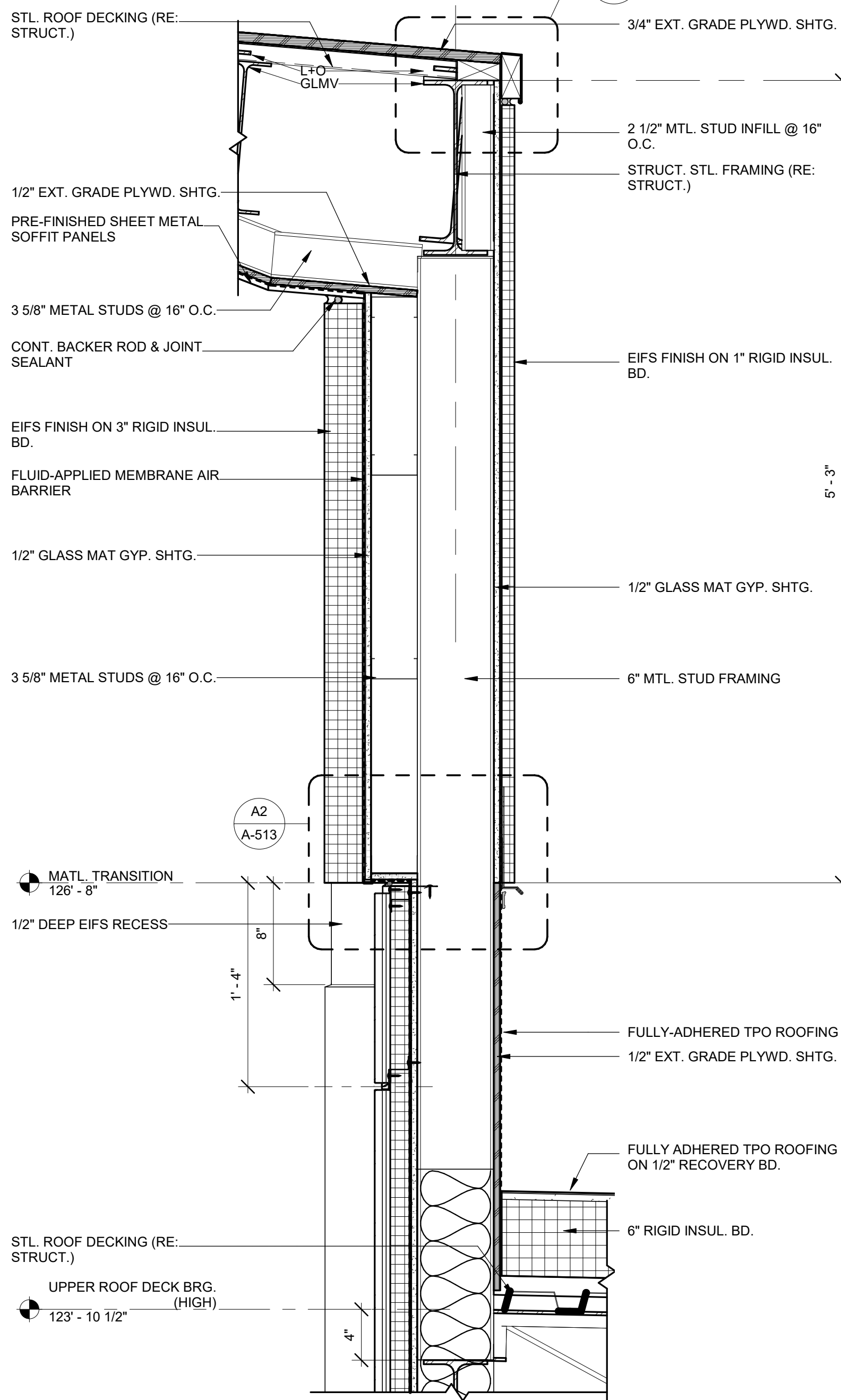
D7 ROOF EAVE DETAIL
3" = 1'-0"



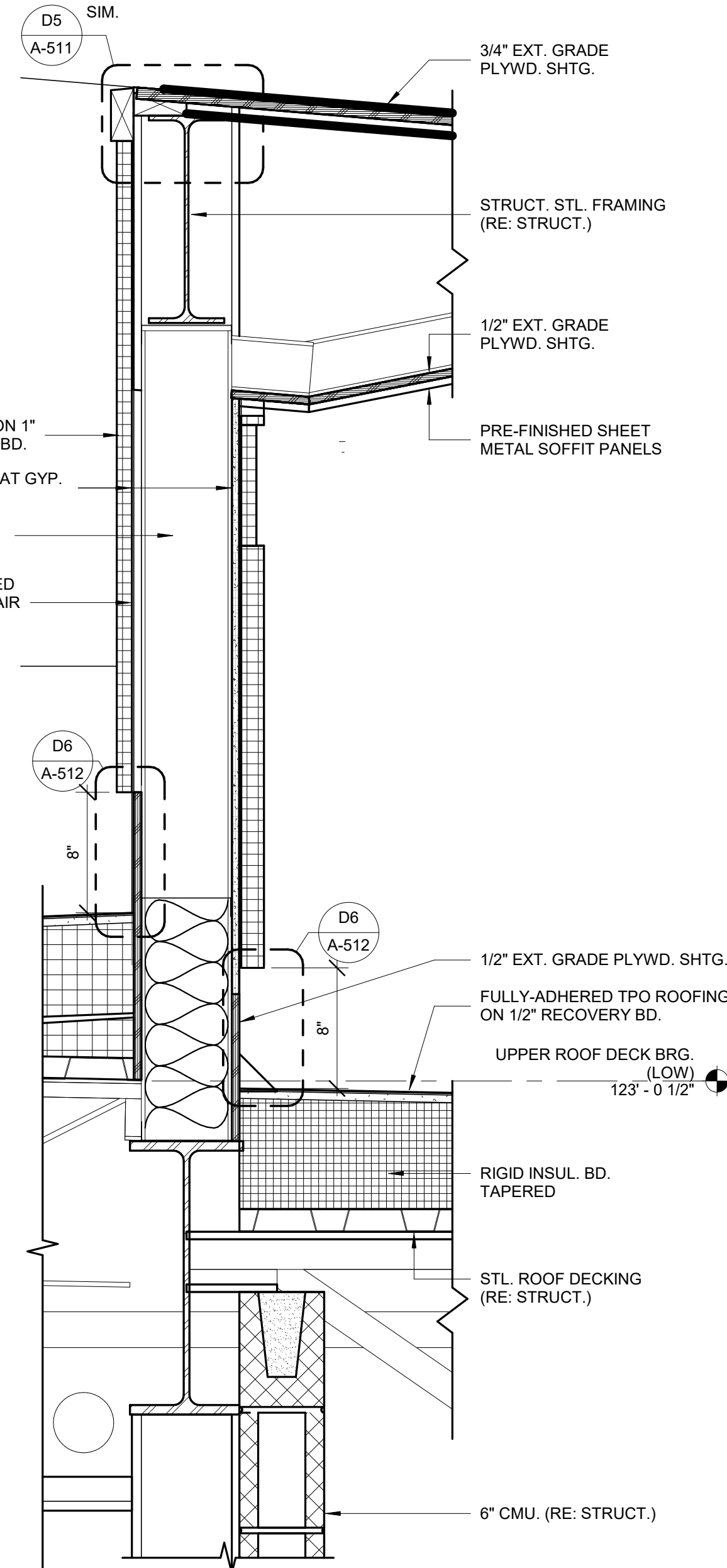
A1 PARAPET DETAIL
3" = 1'-0"



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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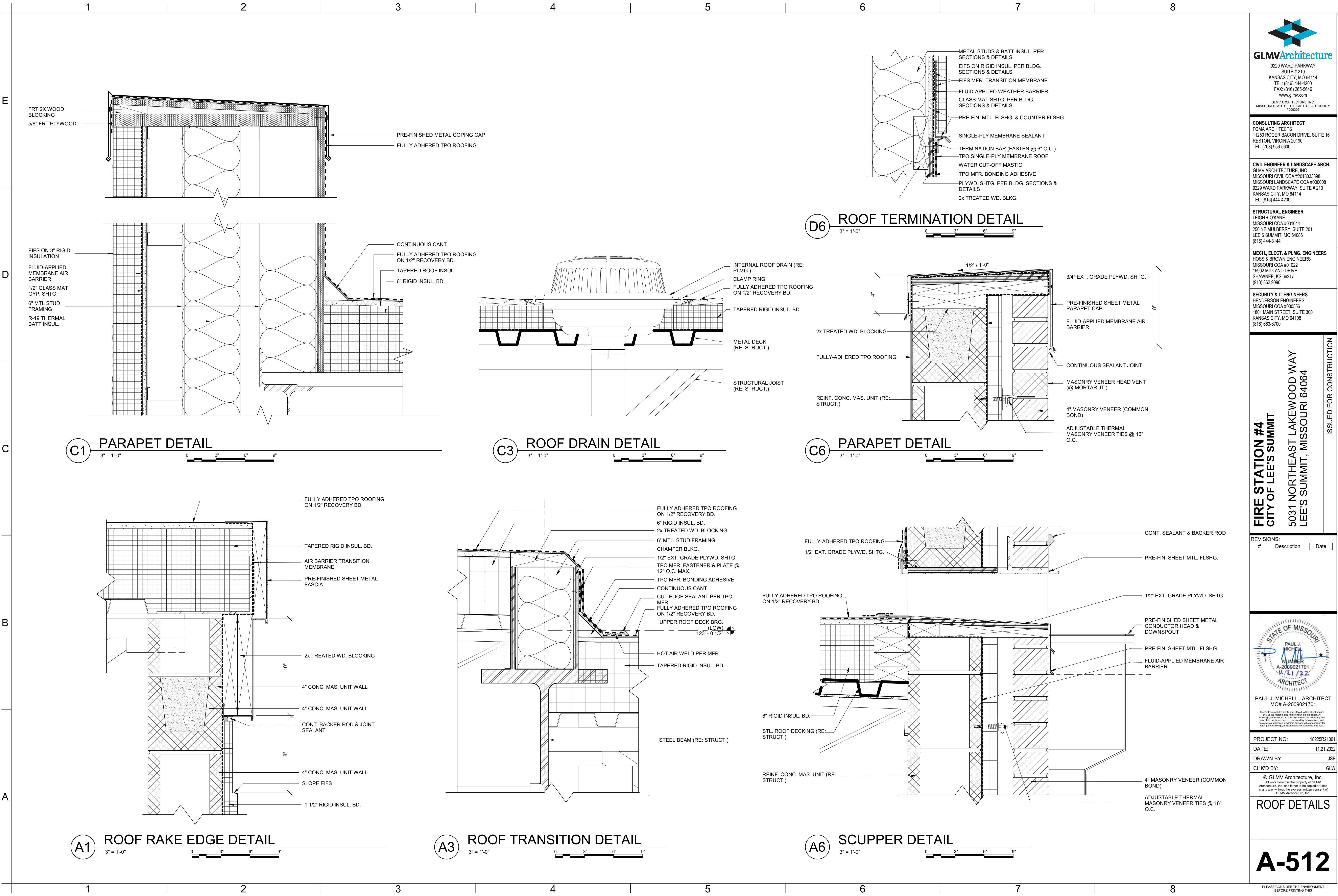
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ROOF DETAILS

A-511

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A-512

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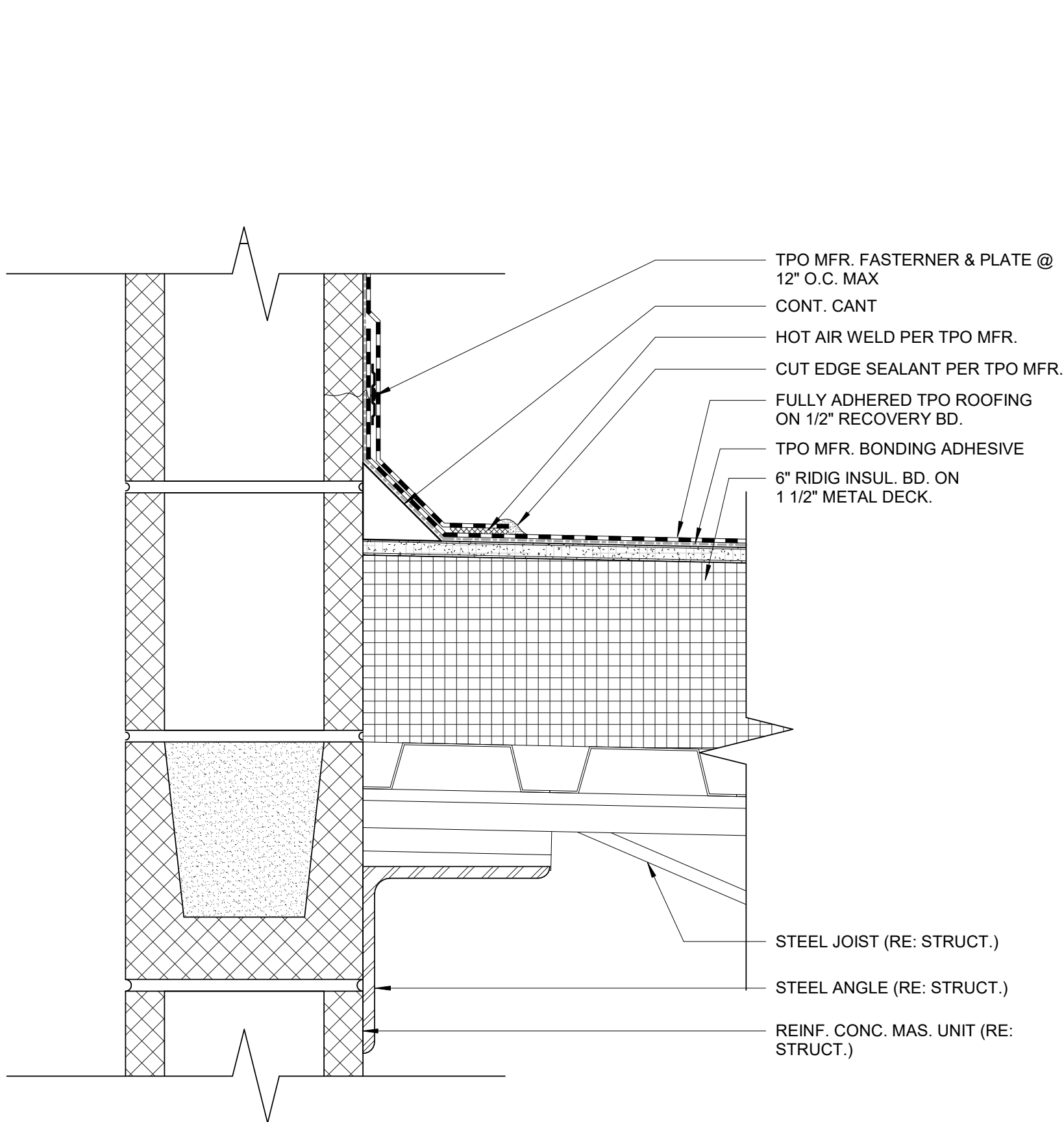
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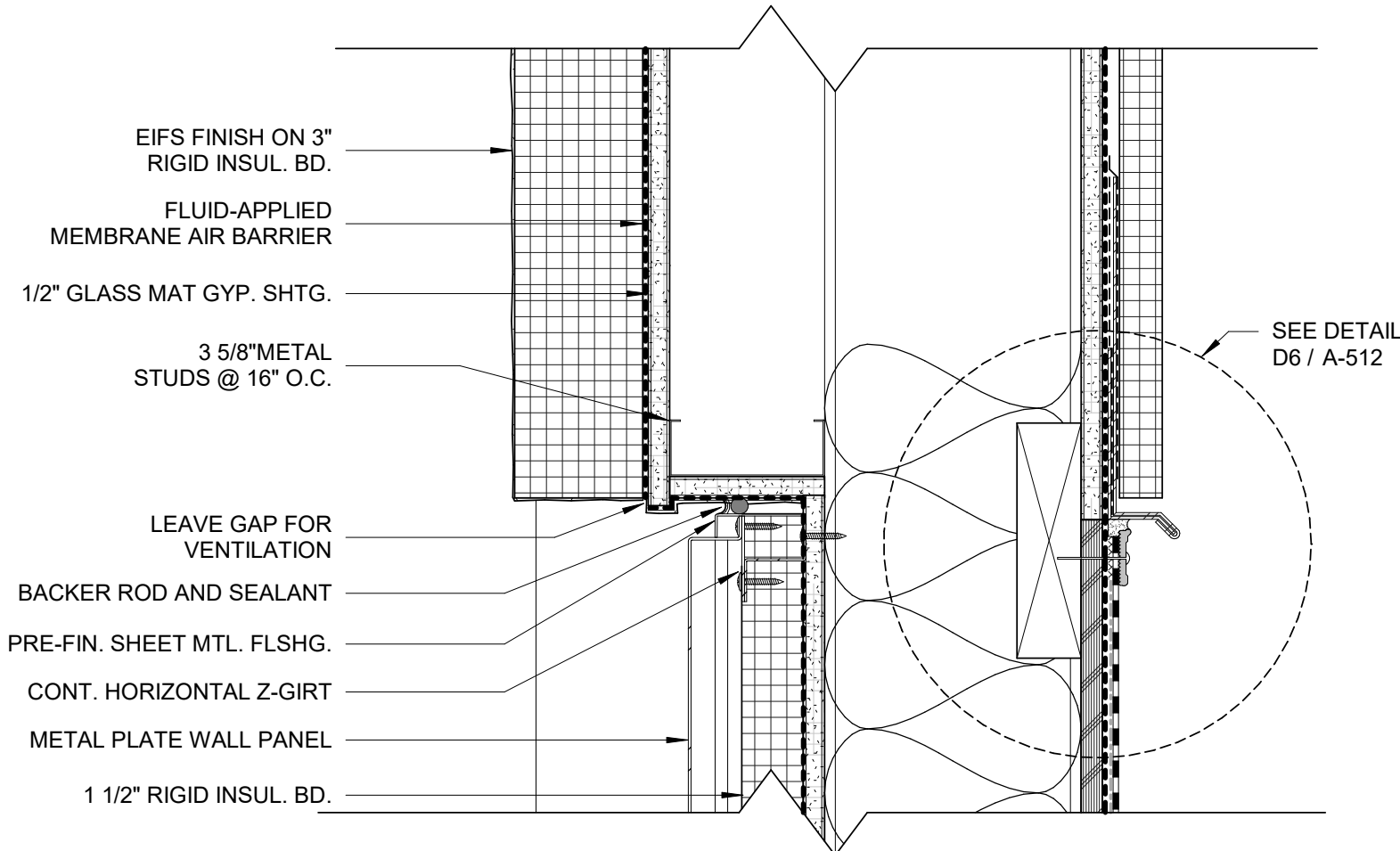
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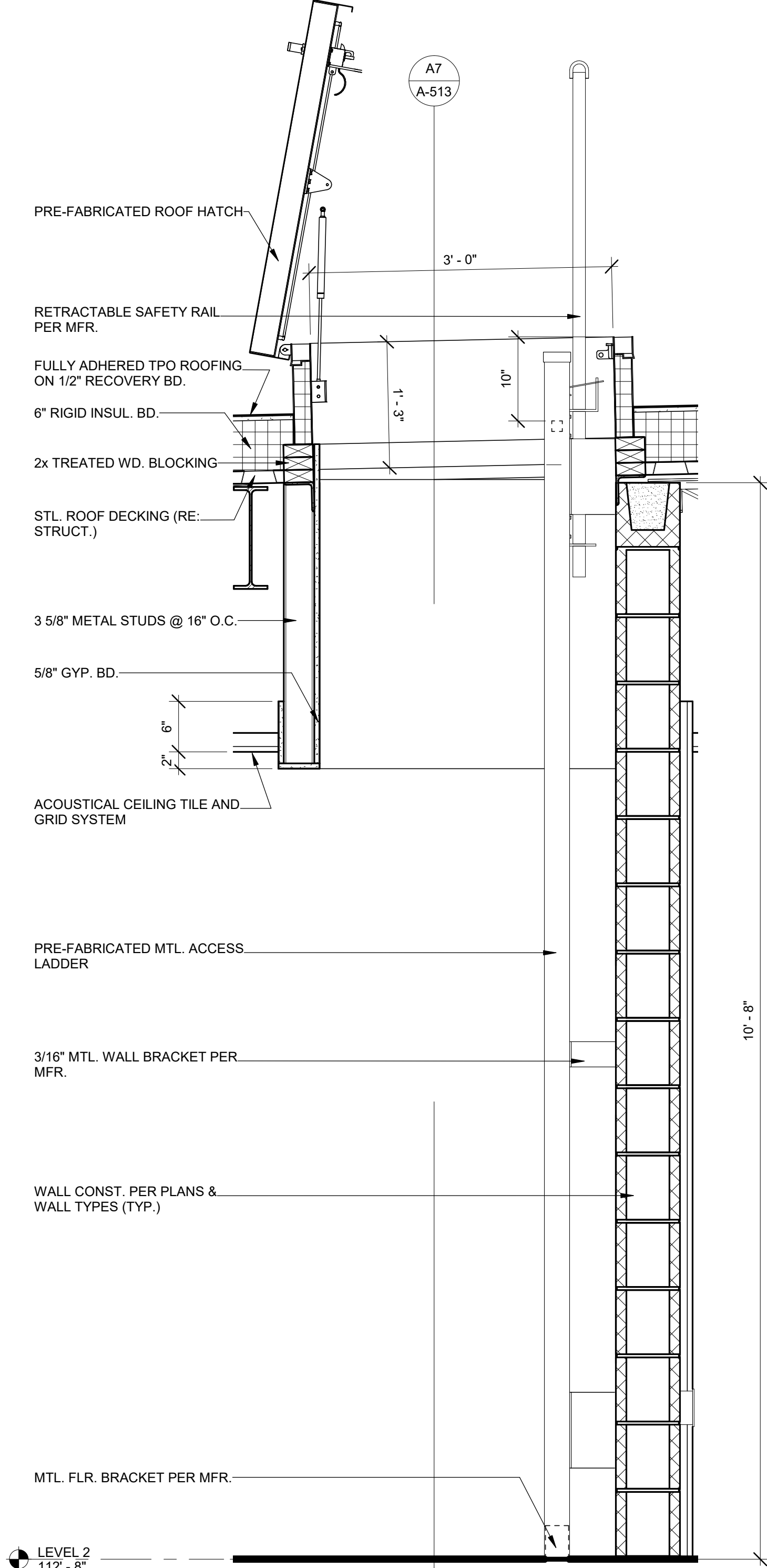
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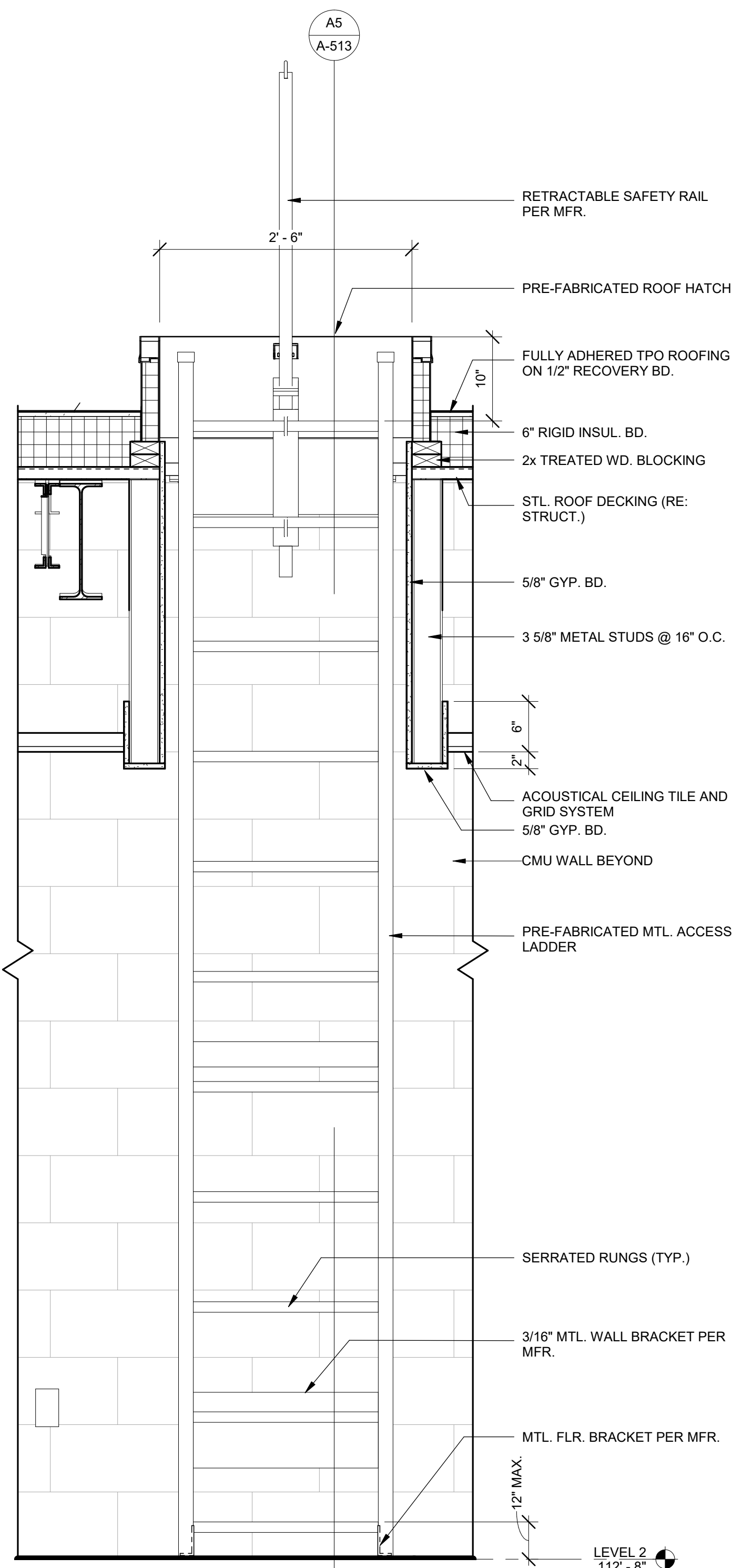
B2 WALL - CMU - VERT TRANS @ APP BAY
3' = 1'-0"



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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A-513

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FILE PATH: BM 360/18225R21001_LeesSummitFireStation_#4 and #5/LSMO FIRE STATIONS.rvt

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6	ASH 06	02/22/2023



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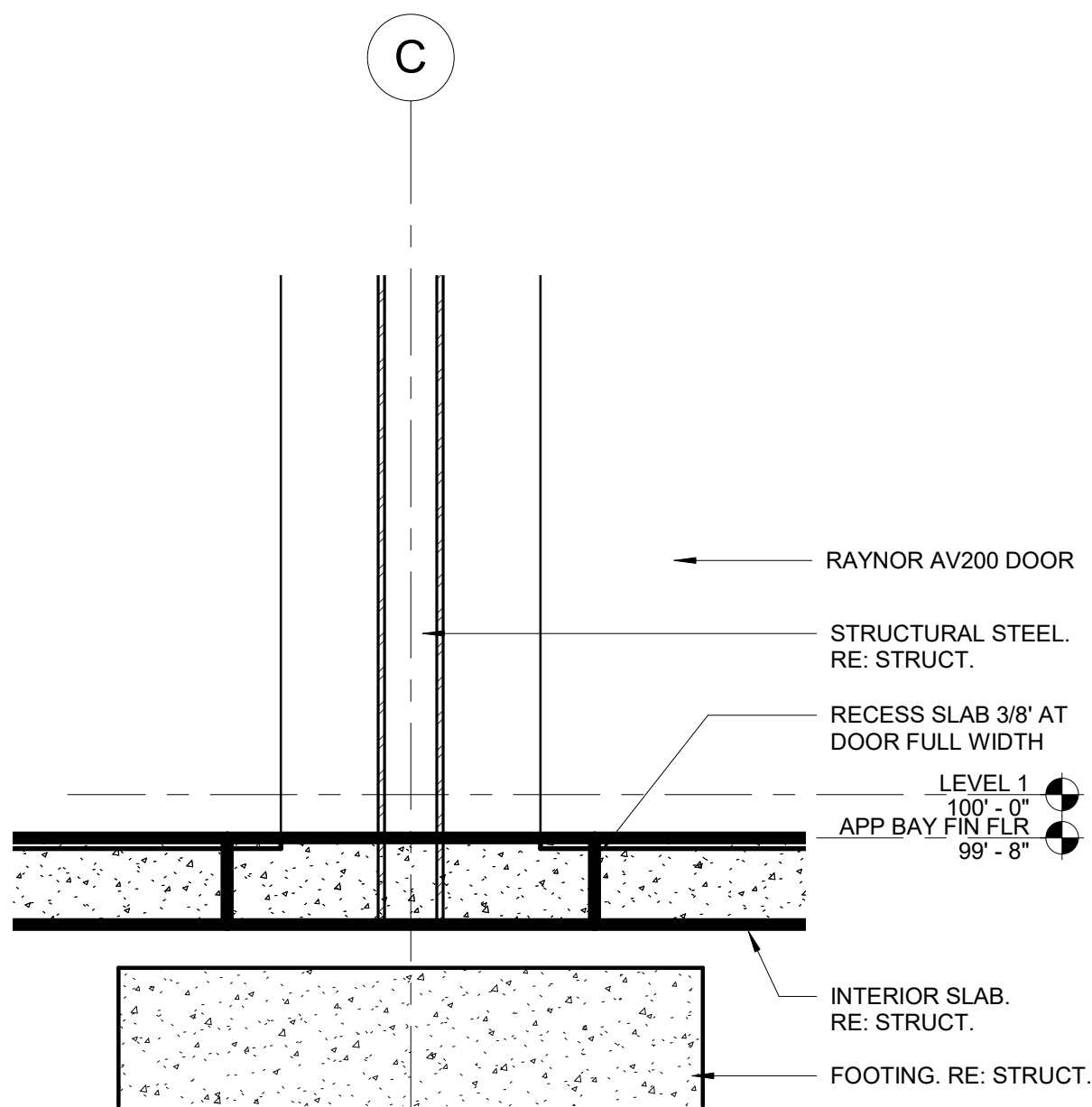
PROJECT NO: 18225R21001
DATE: 02.22.2023
DRAWN BY: Author
CHK'D BY: Checker

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FLOOR DETAILS

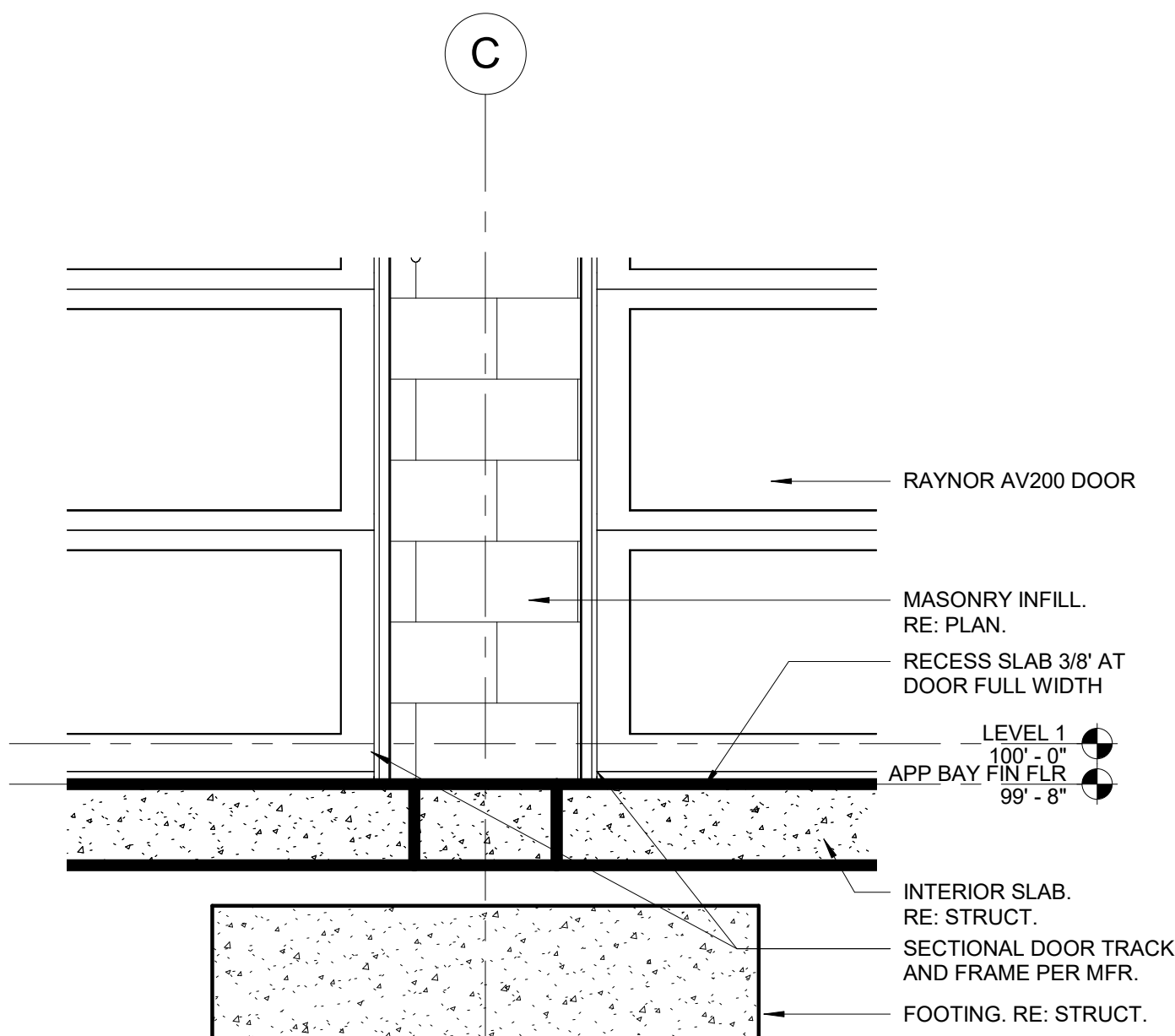
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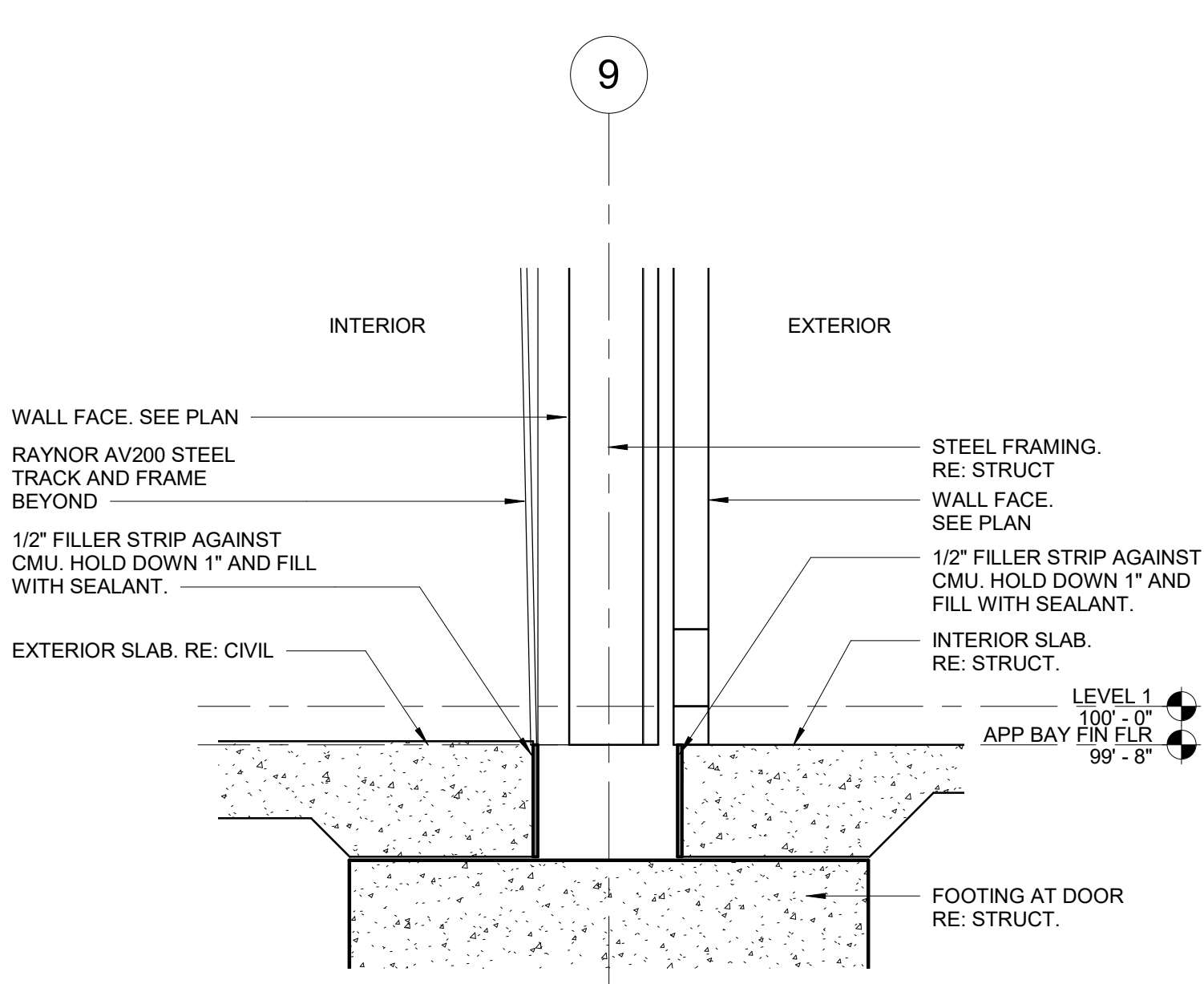
5 SLAB DETAIL

3/4" = 1'-0"



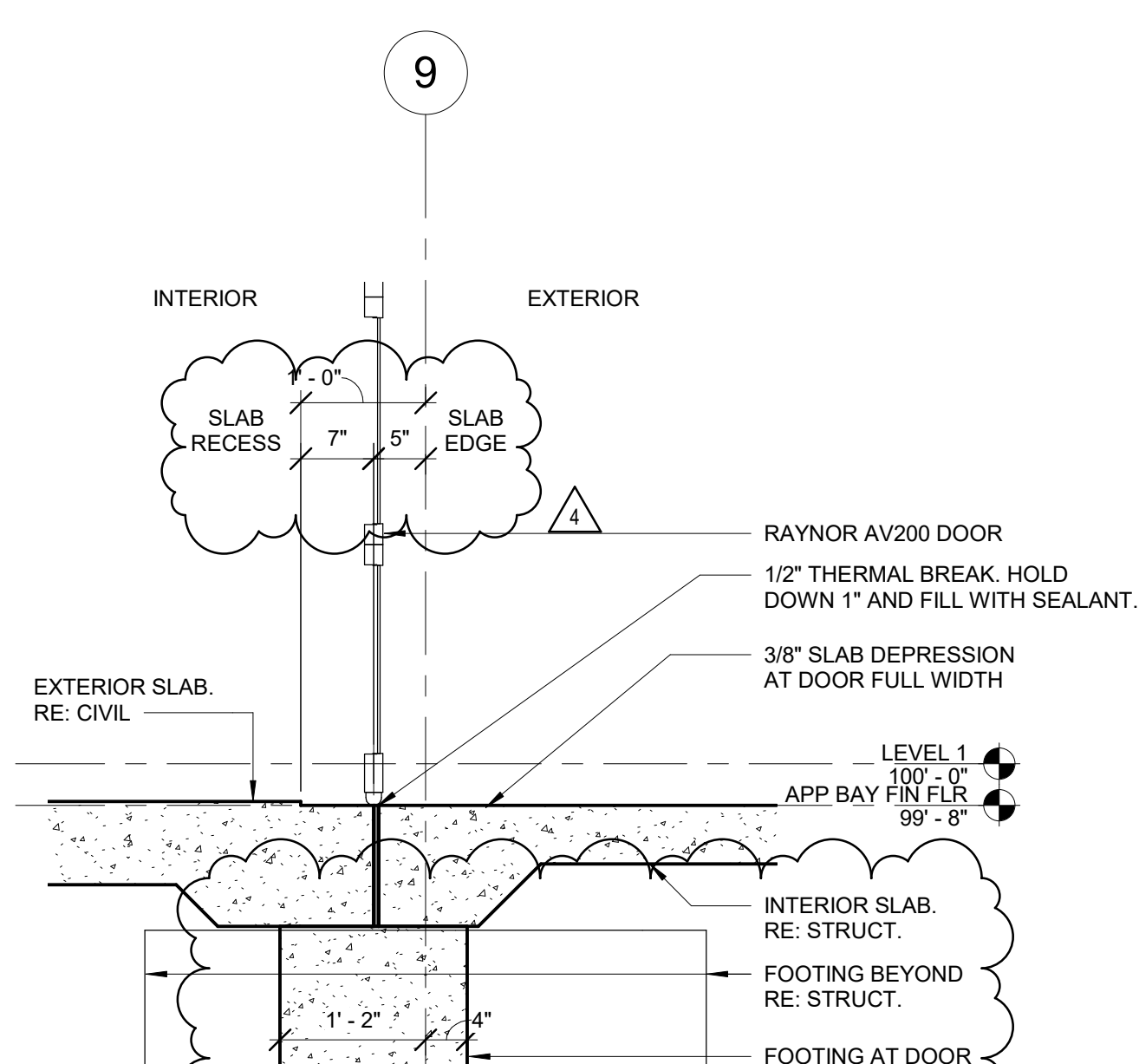
C3 SLAB DETAIL

3/4" = 1'-0"



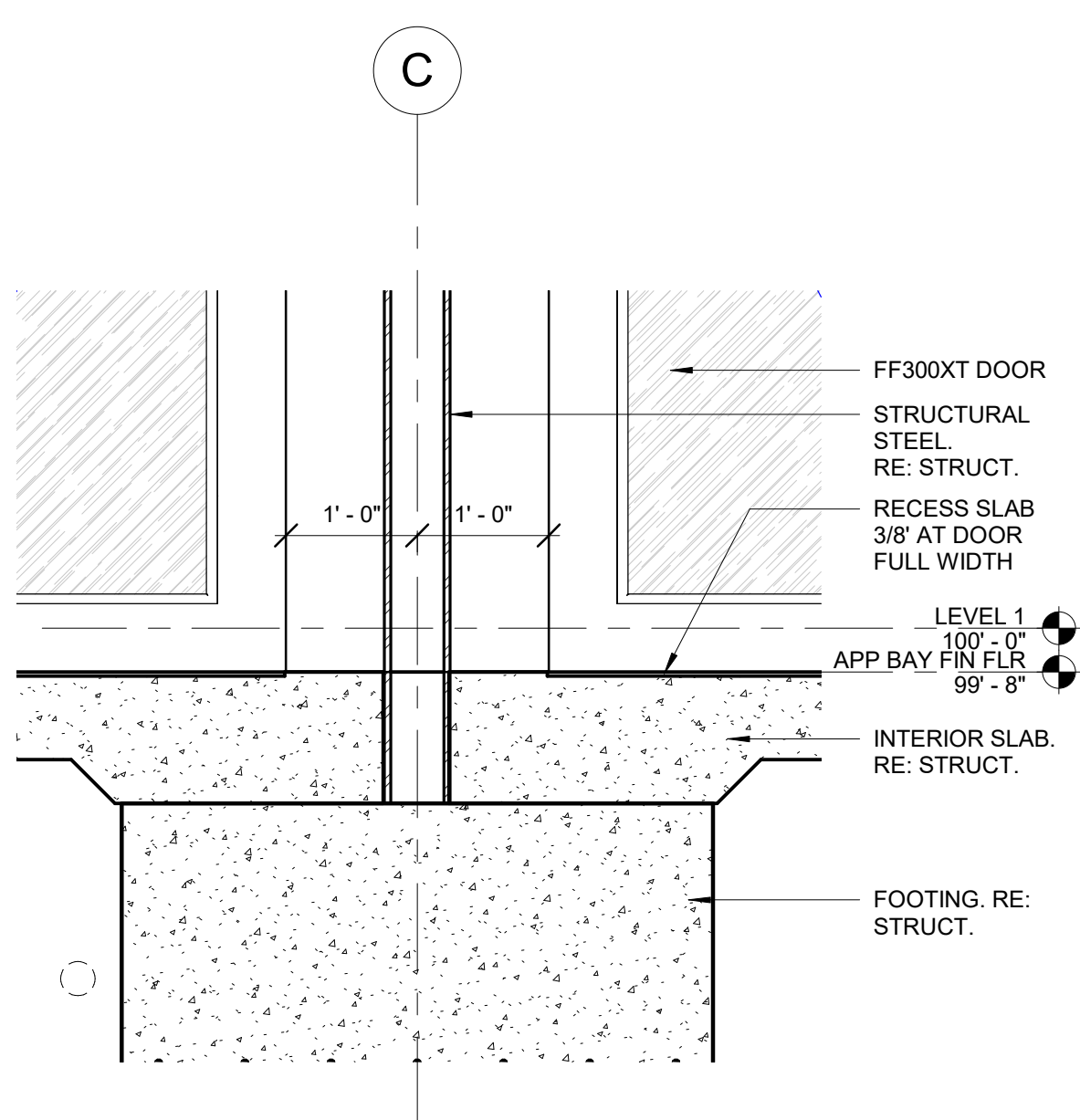
C5 SLAB DETAIL

3/4" = 1'-0"



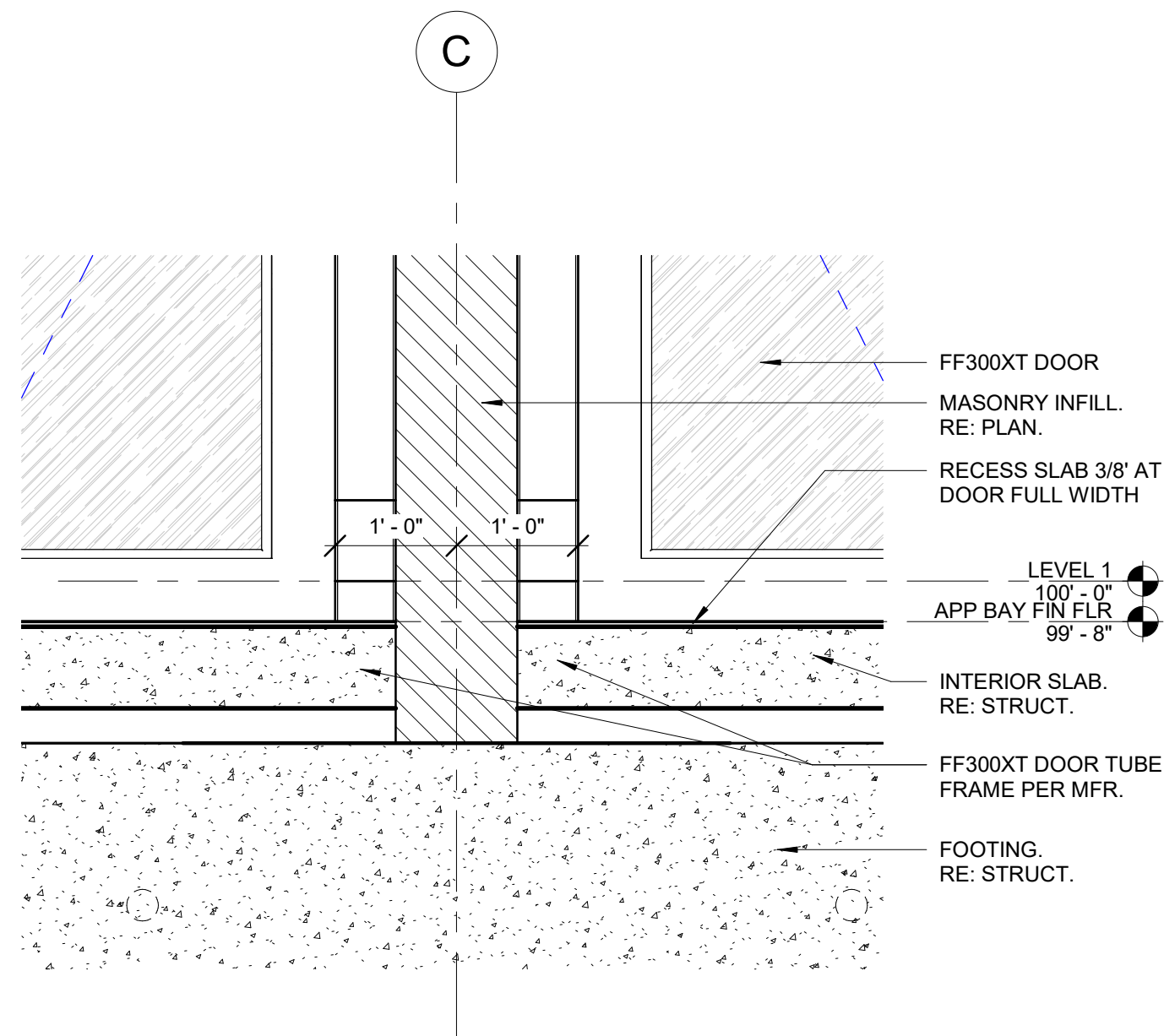
C7 SLAB DETAIL

3/4" = 1'-0"



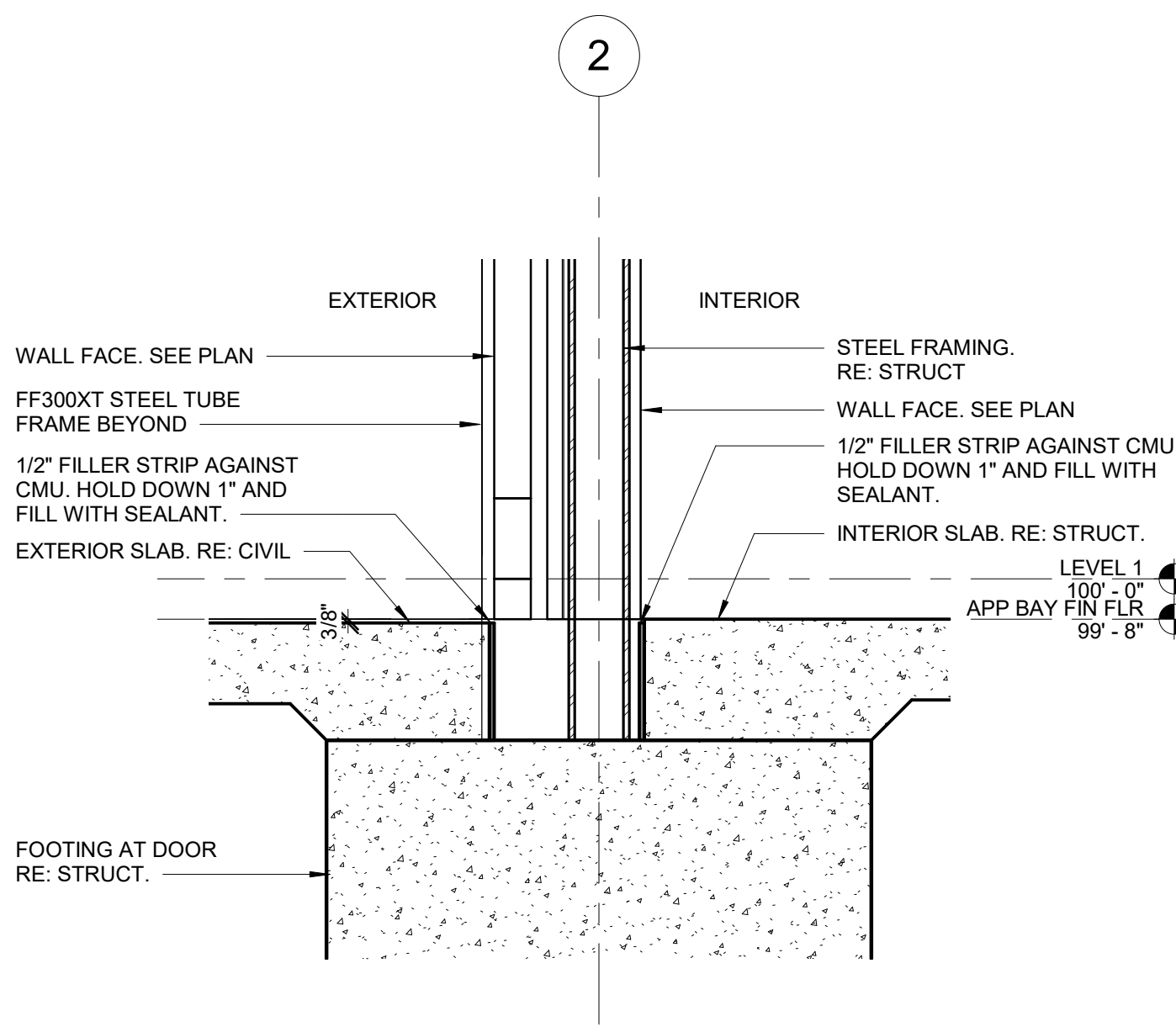
A1 SLAB DETAIL

3/4" = 1'-0"



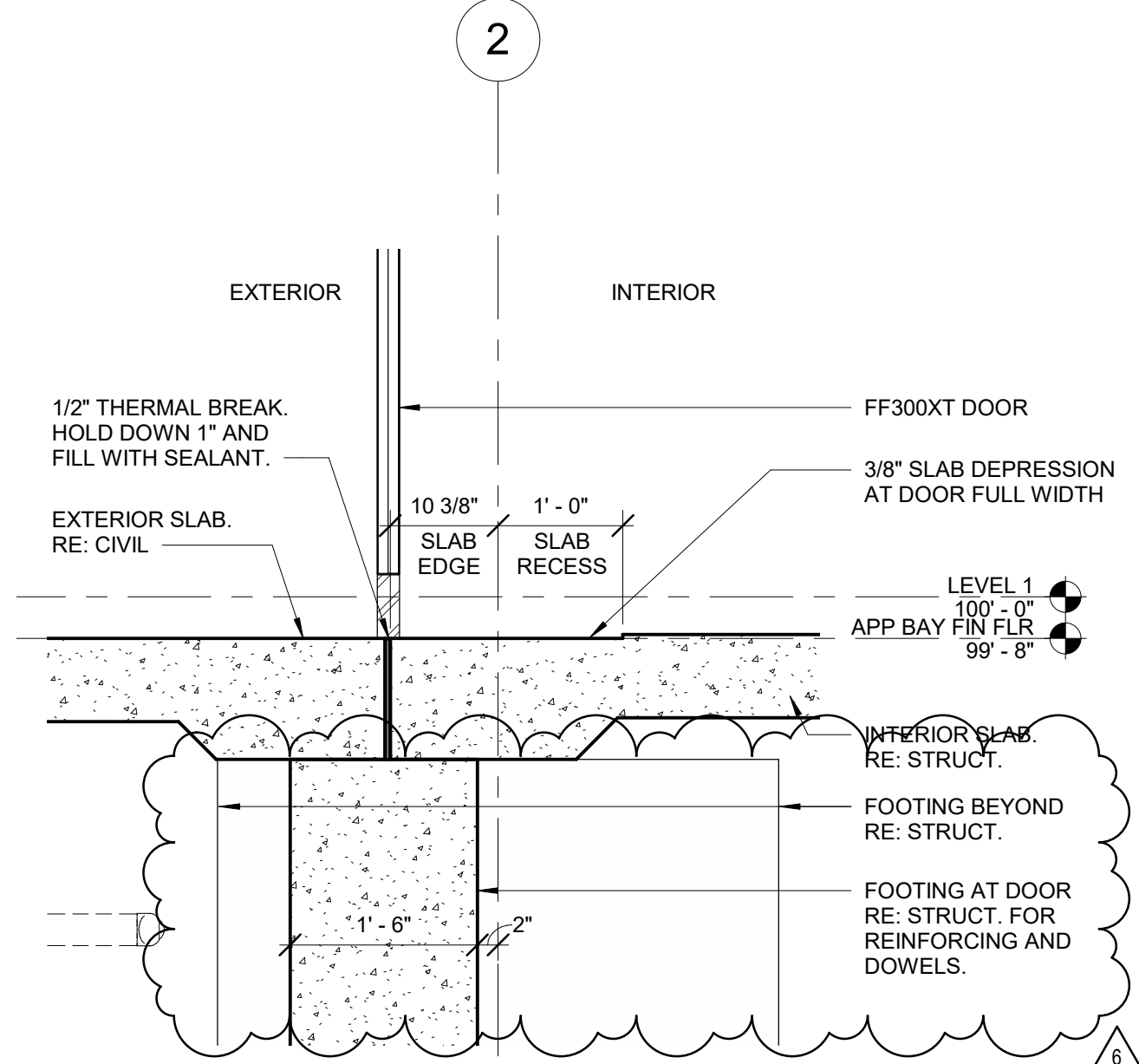
A3 SLAB DETAIL

3/4" = 1'-0"



A5 SLAB DETAIL

3/4" = 1'-0"



A7 SLAB DETAIL

3/4" = 1'-0"

FILE PATH: BIM 360://18225R21001_LeeSummitFireStation_# 4 and #5/LSMO FIRE STATIONS.rvt

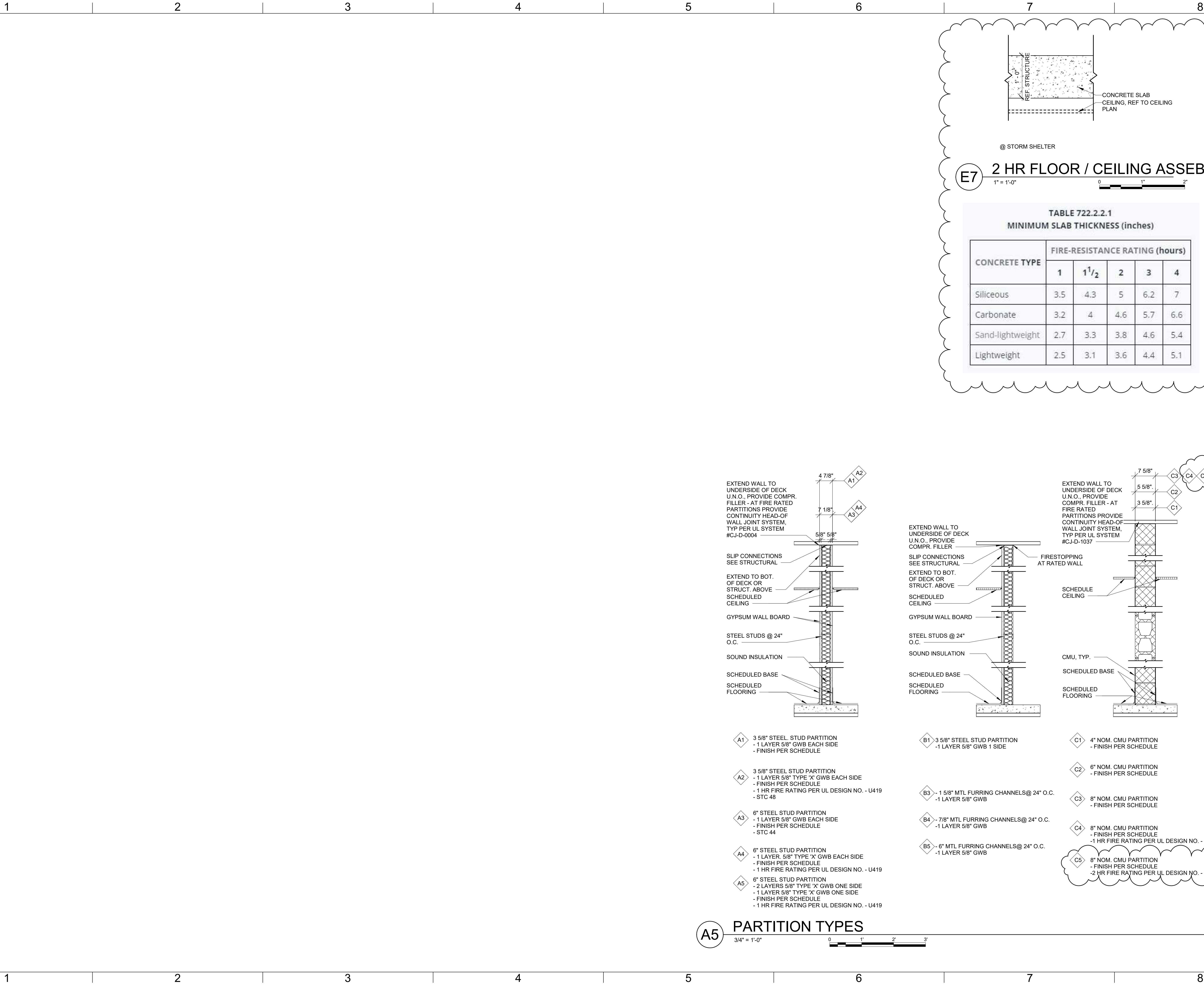
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CHK'D BY:	PJM

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

June 6, 2022

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](#)

Horizontal Section

Diagram showing a horizontal section of a three-bay bridge. The deck width is 34' and the height is 5'-5/8" Min. The section shows three bays separated by two piers. Reinforcement details are indicated by numbers 1, 2, and 3.

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

ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

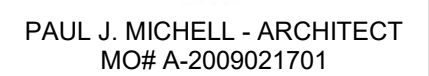
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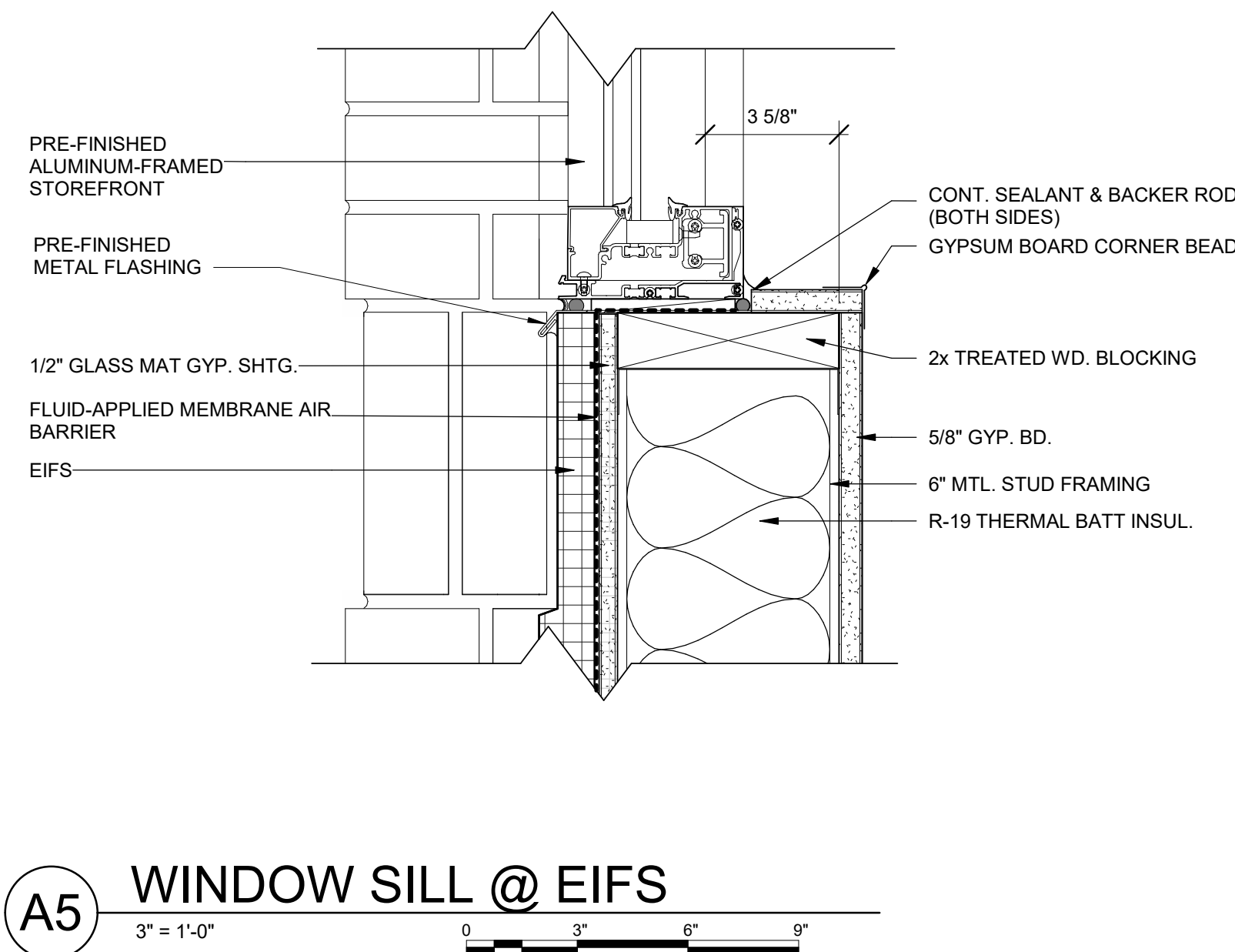
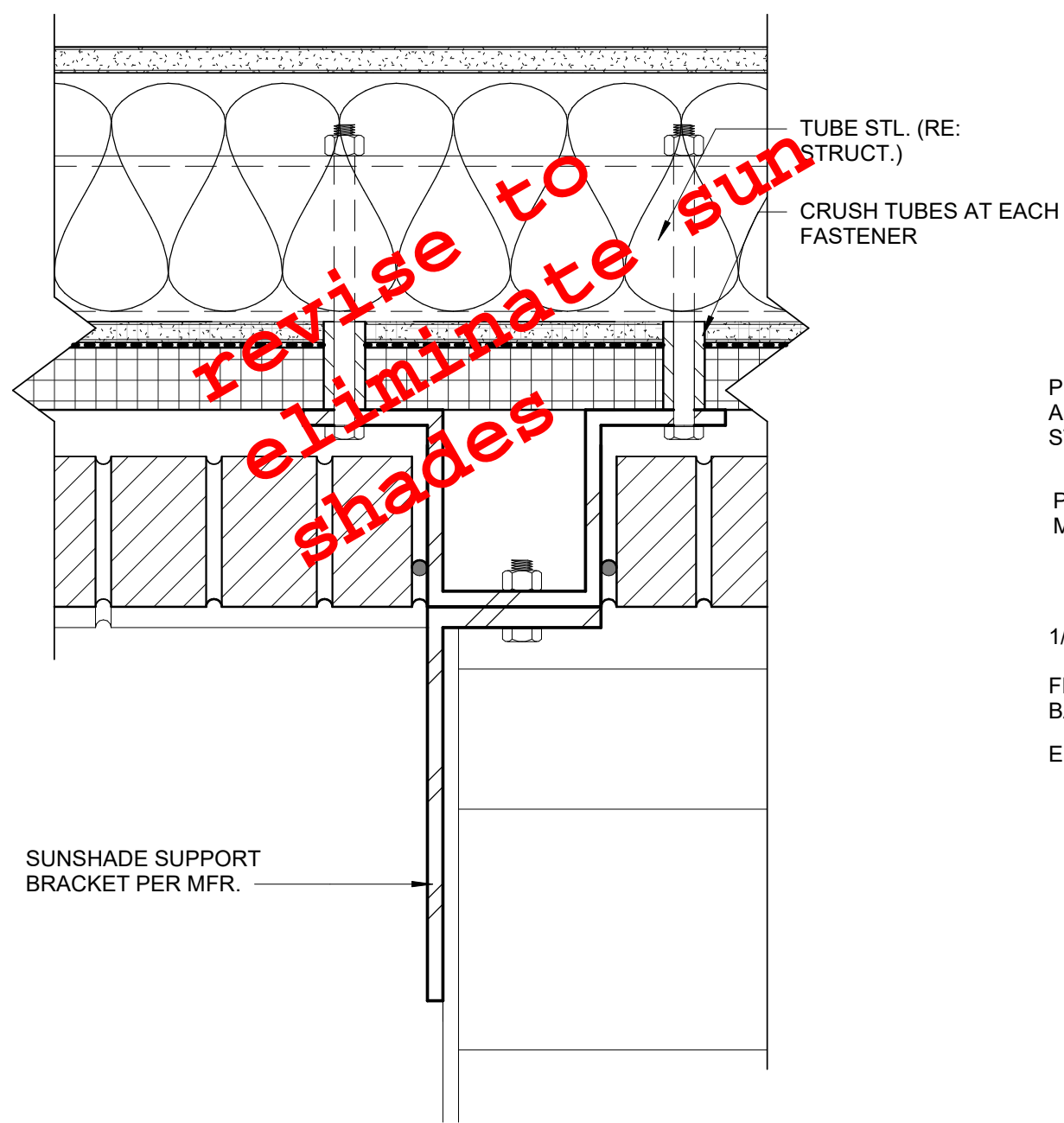
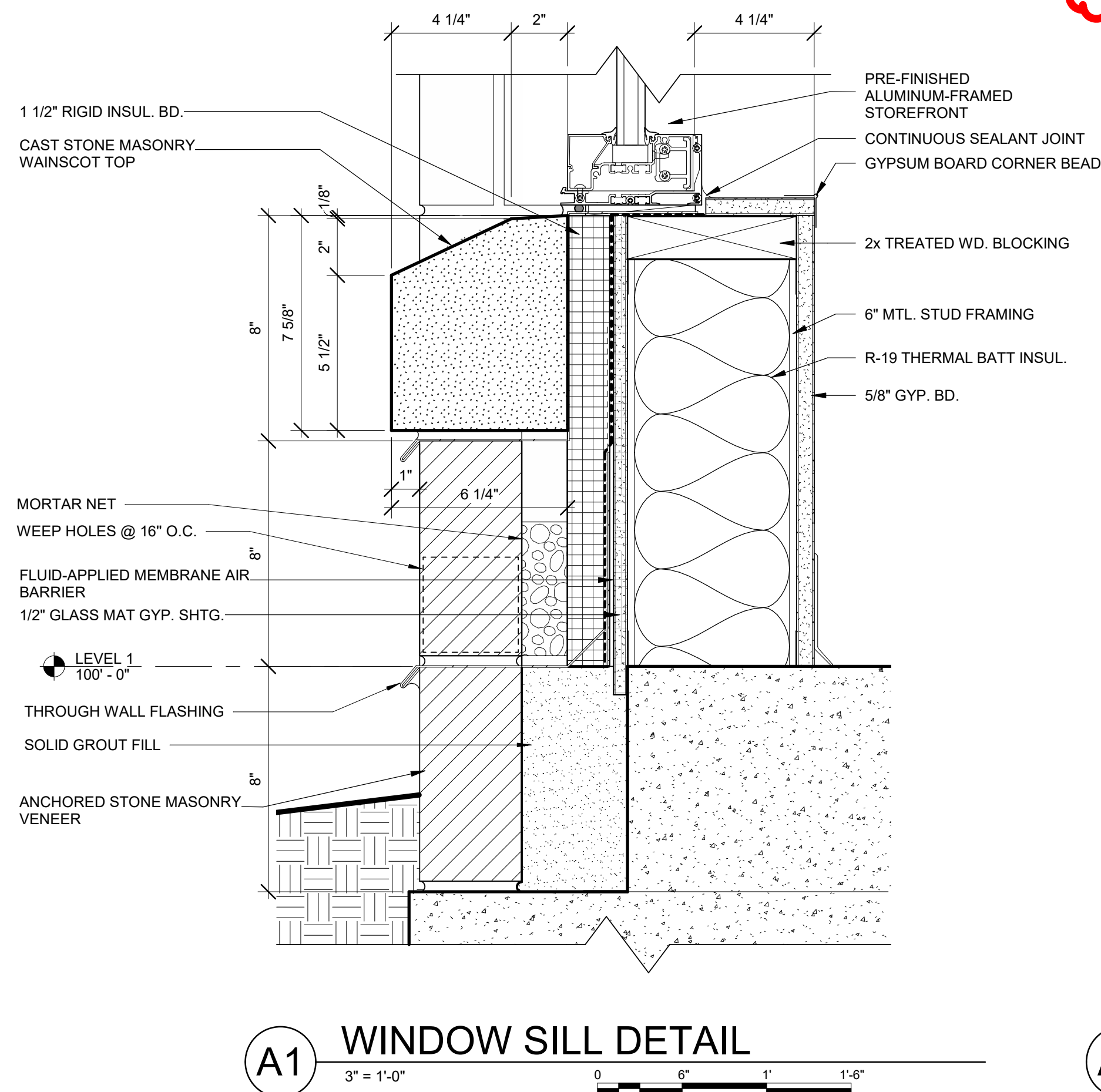
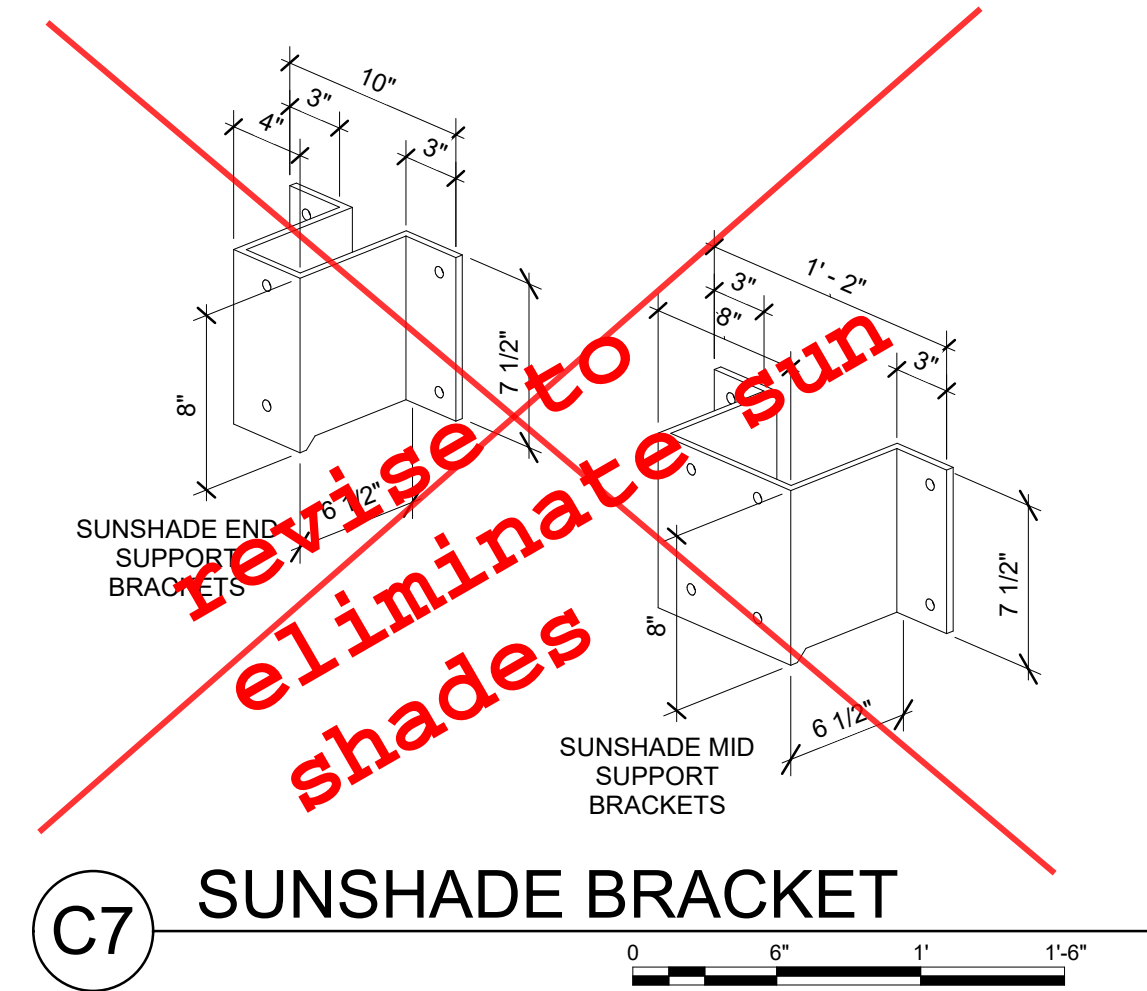
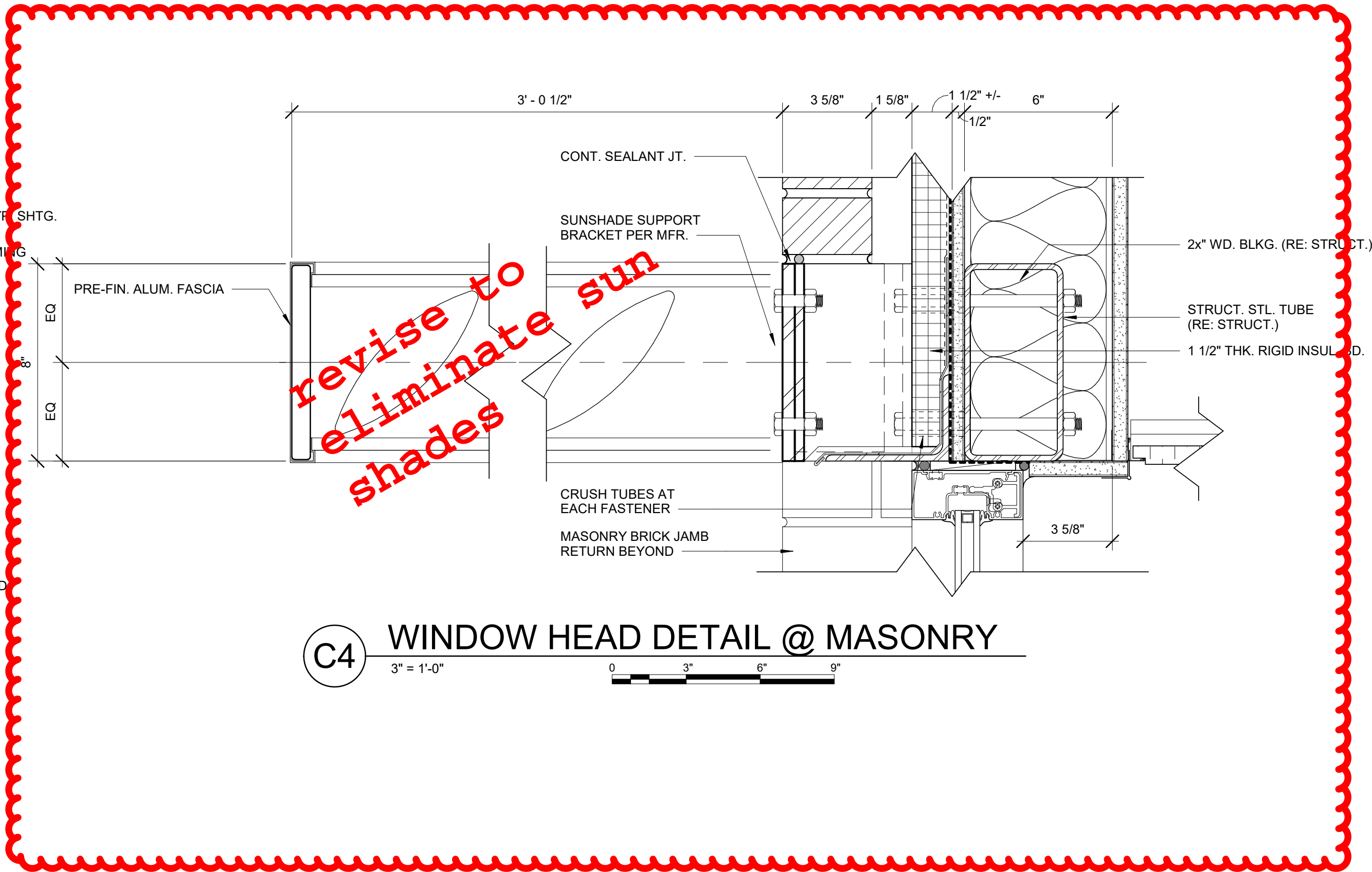
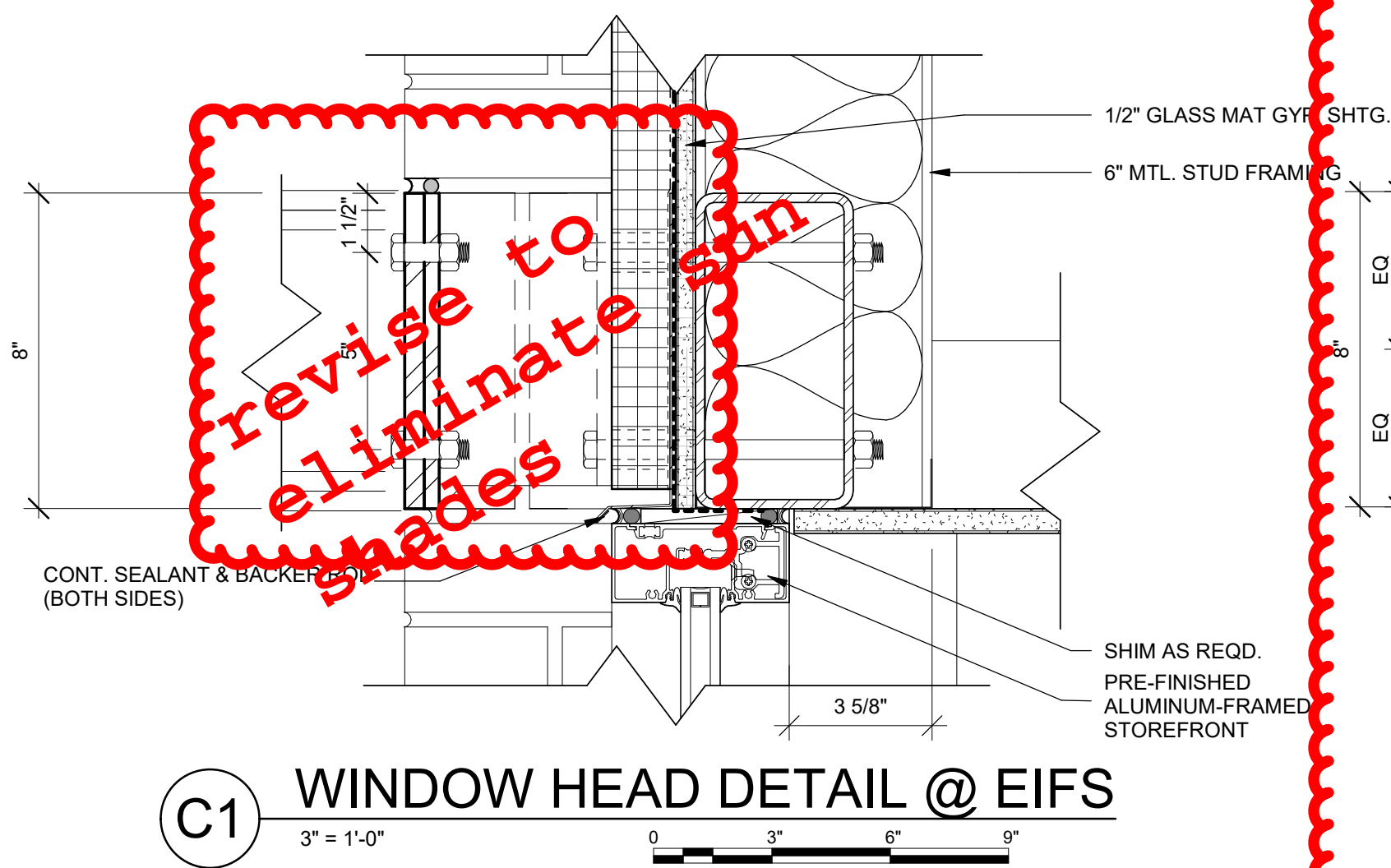
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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

ISSUED FOR CONSTRUCTION

REVISIONS:

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

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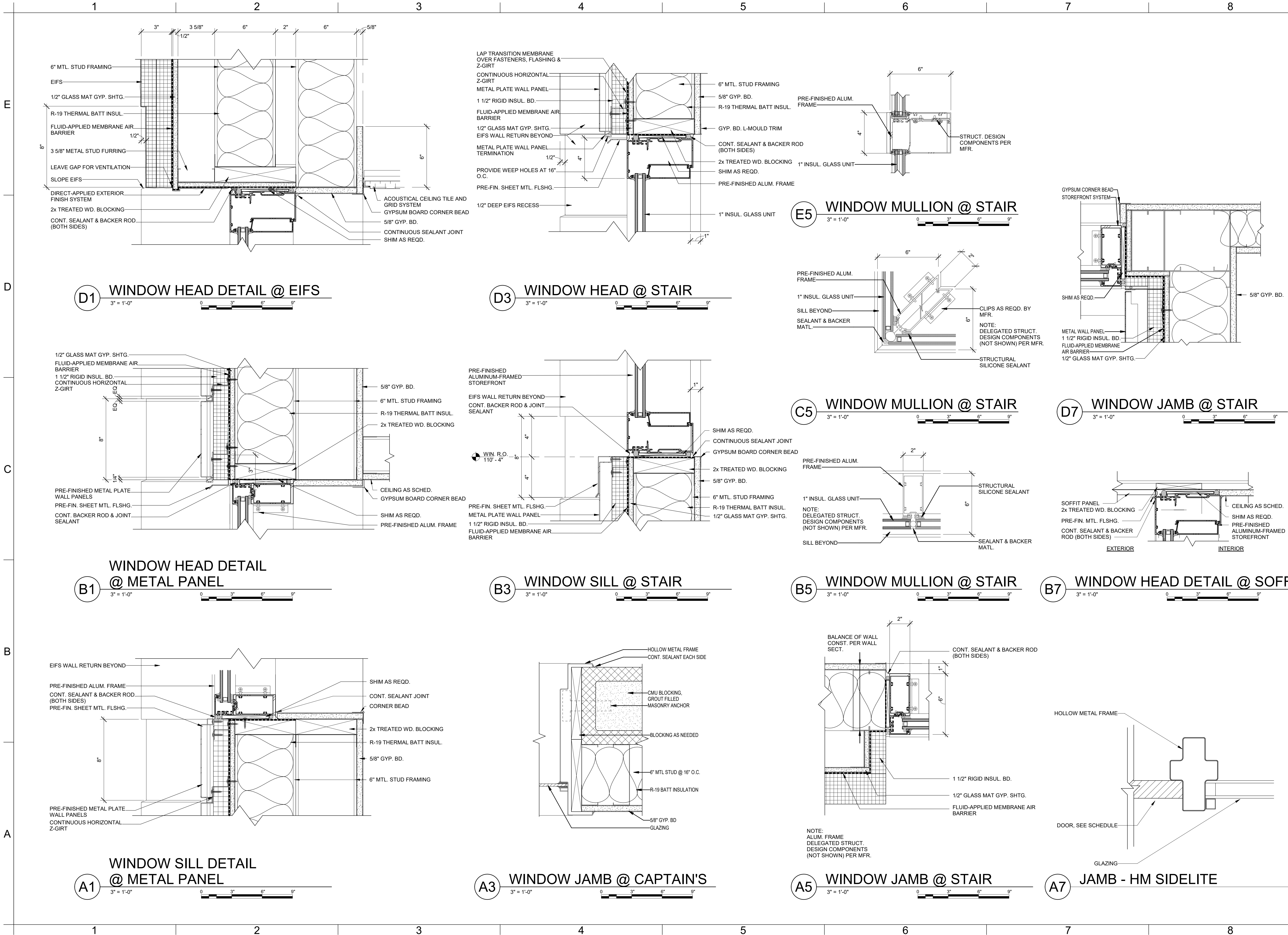
WINDOW DETAILS

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5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:		
#	Description	Date

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STATE OF MISSOURI
PAUL J. MICHELL
NUMBER
A-2009021701
11/21/22
ARCHITECT

PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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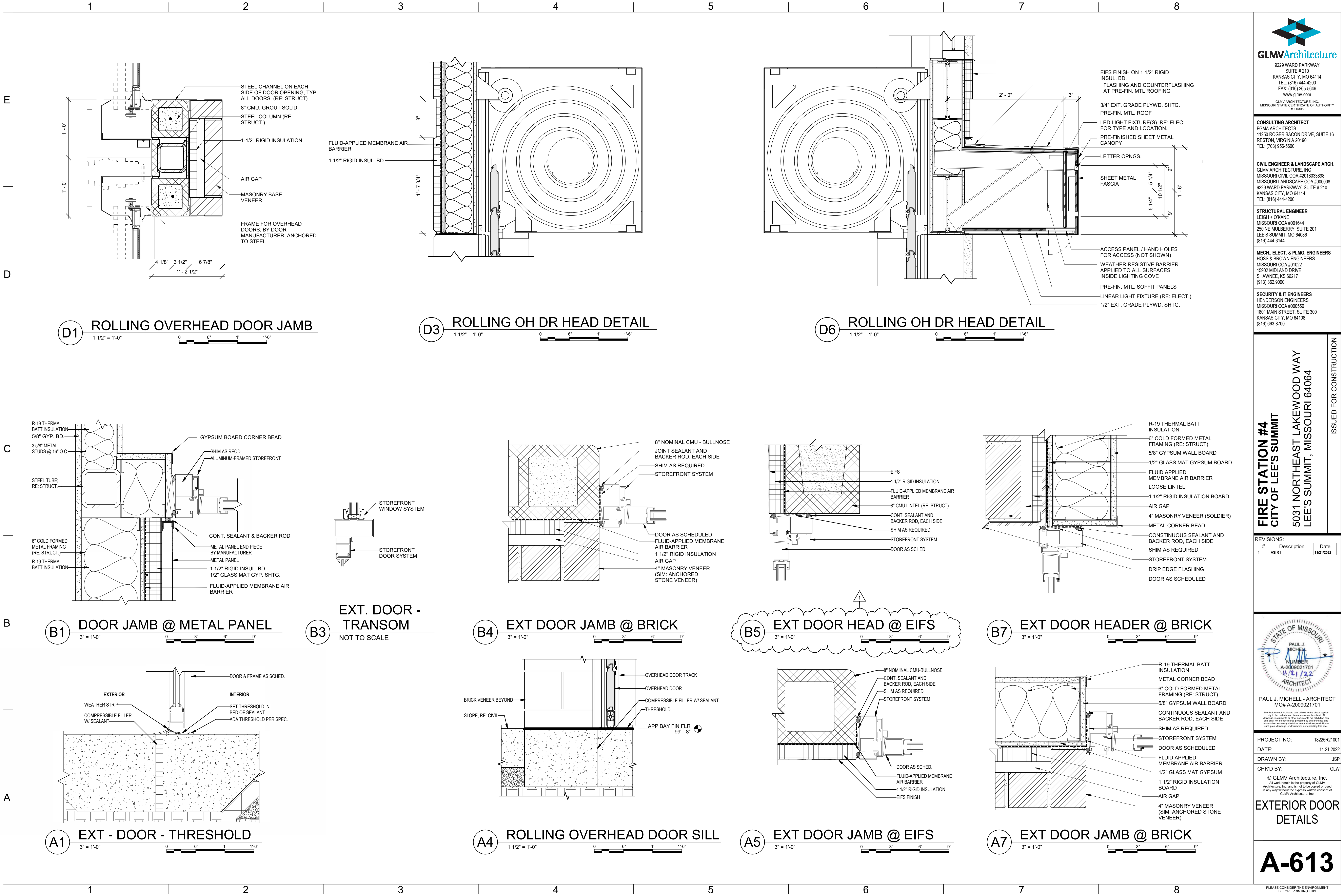
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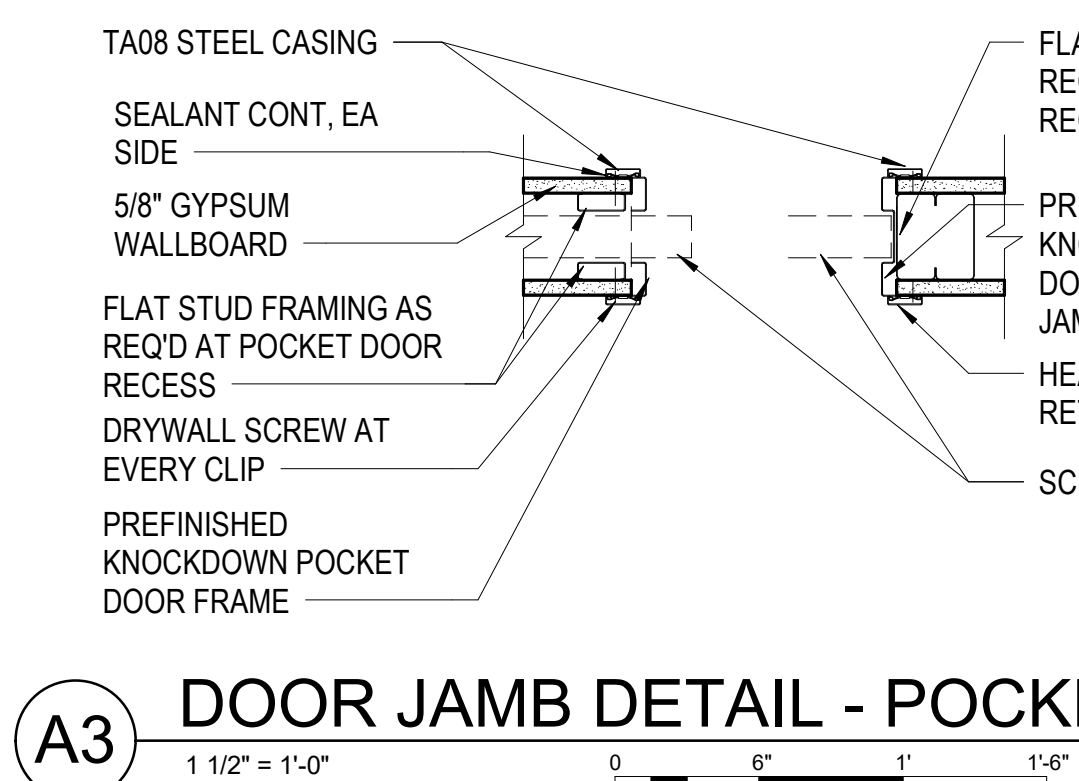
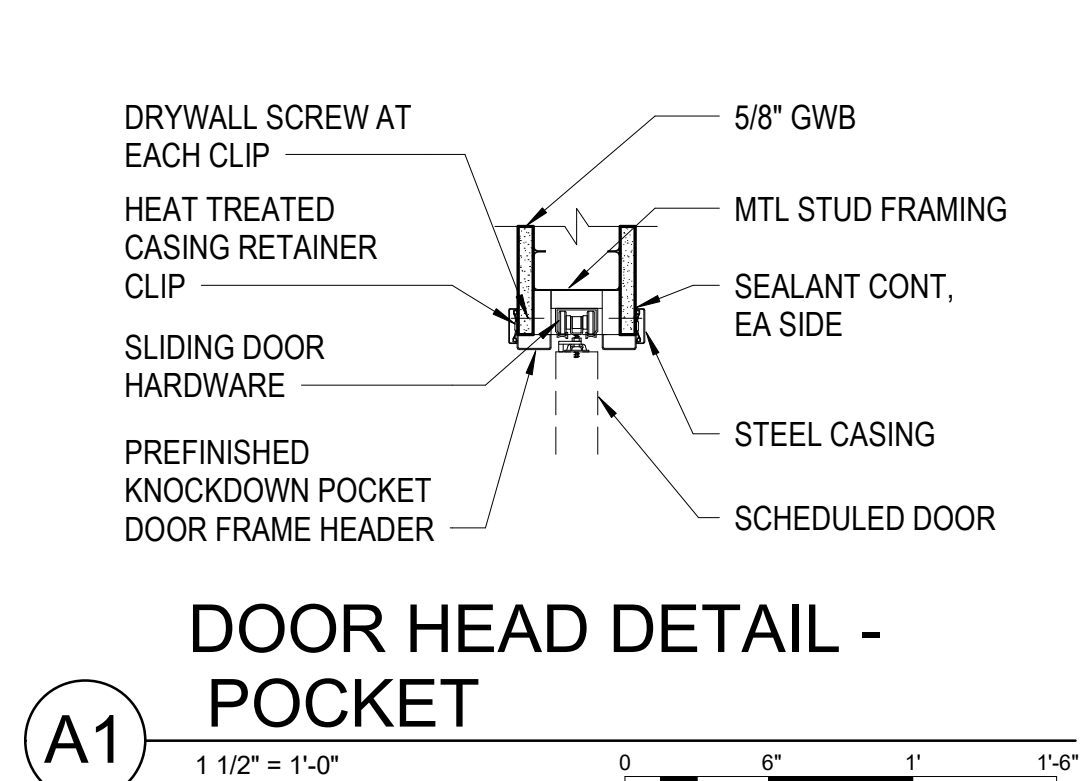
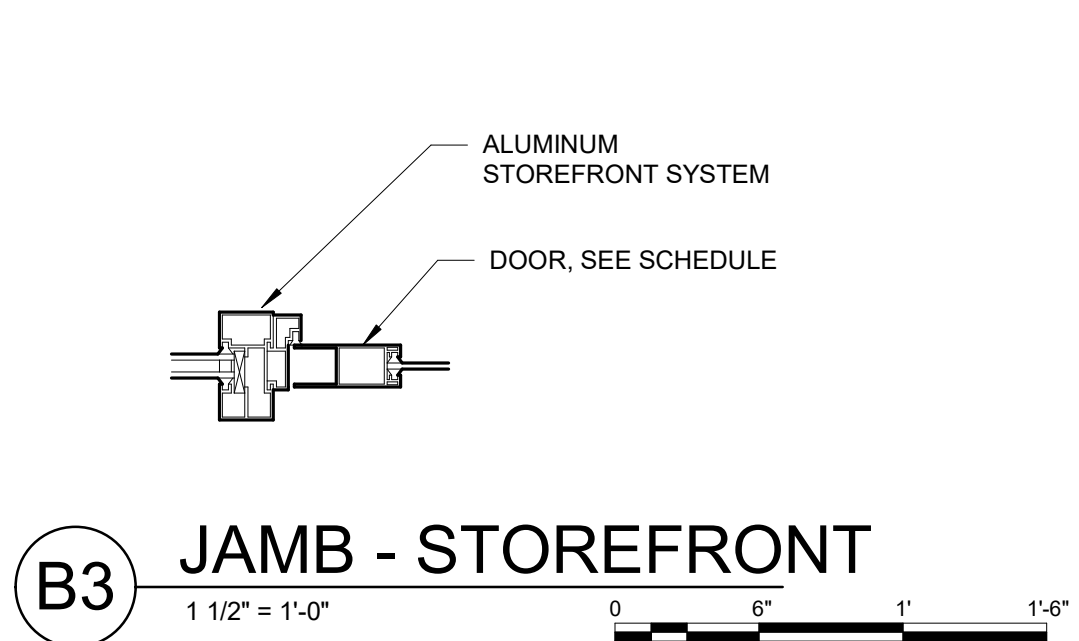
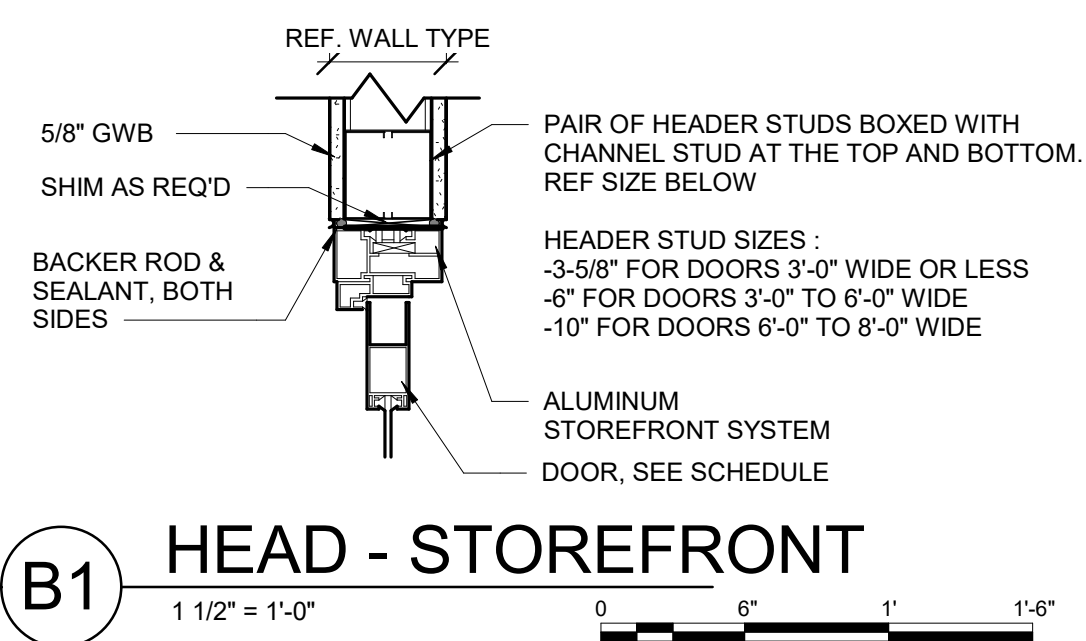
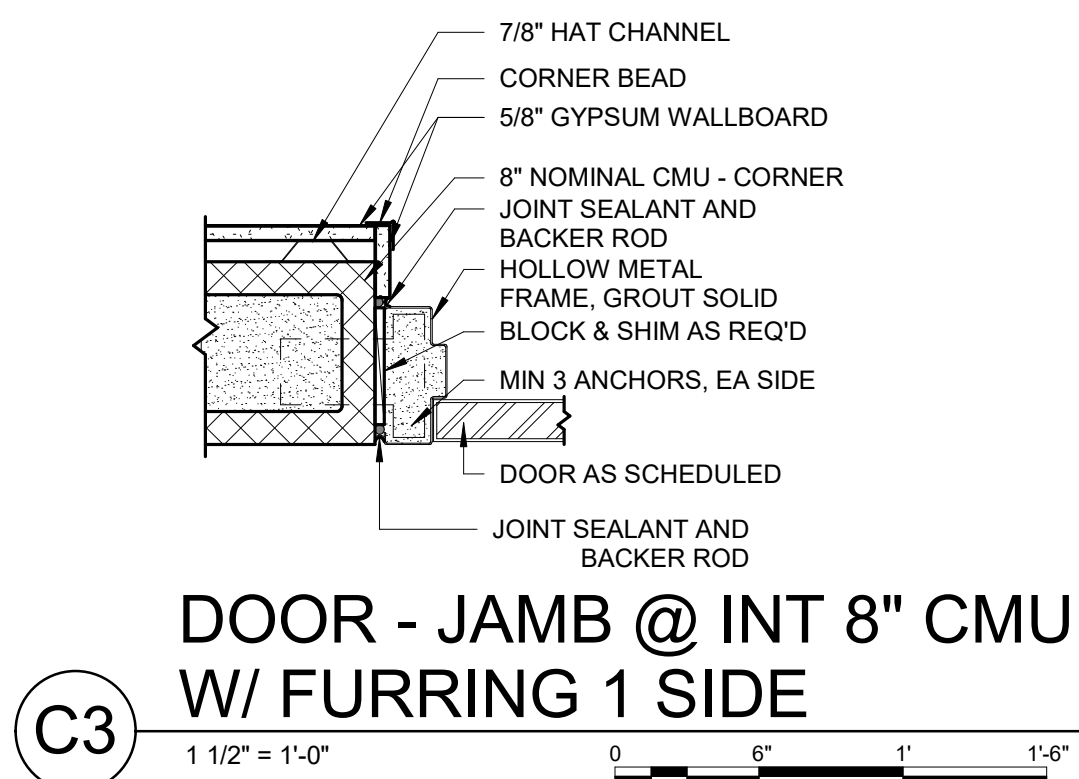
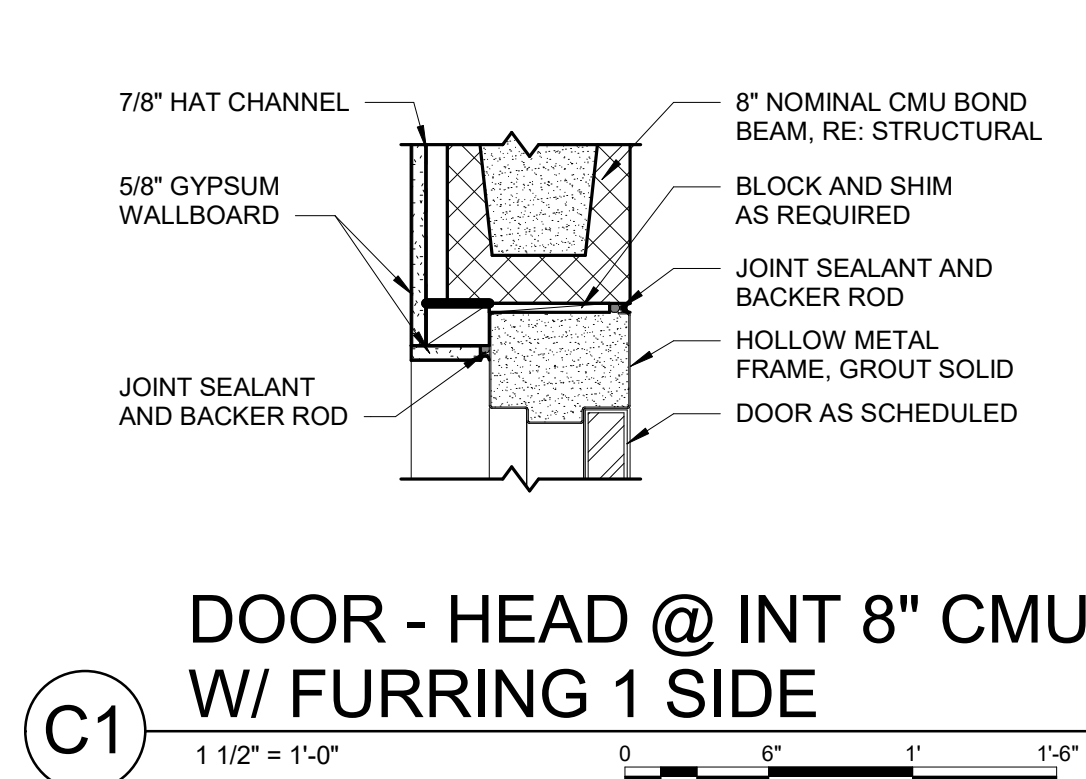
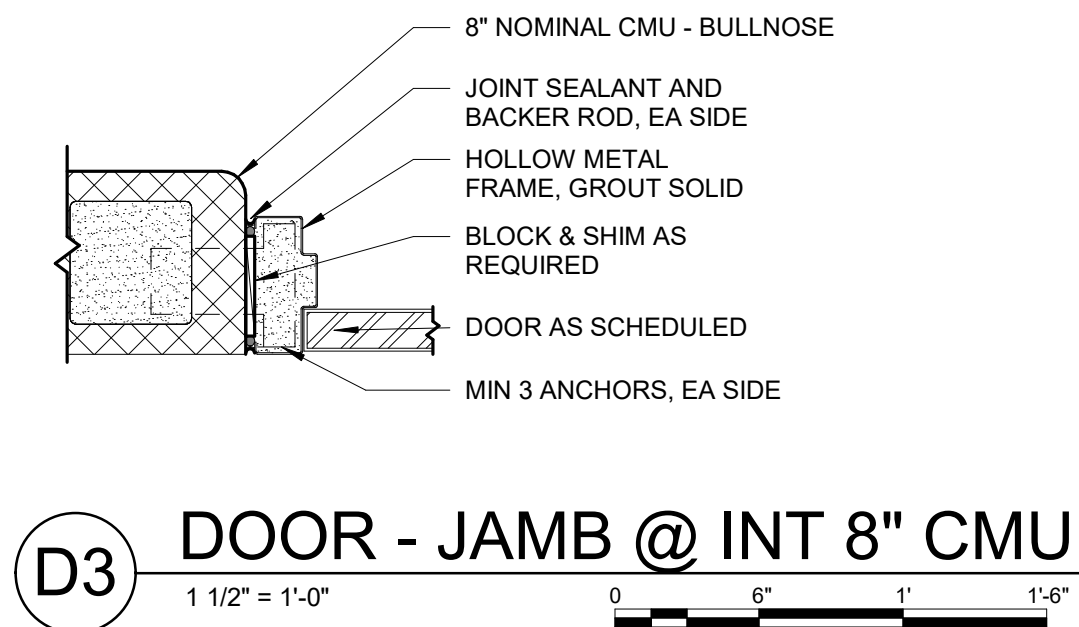
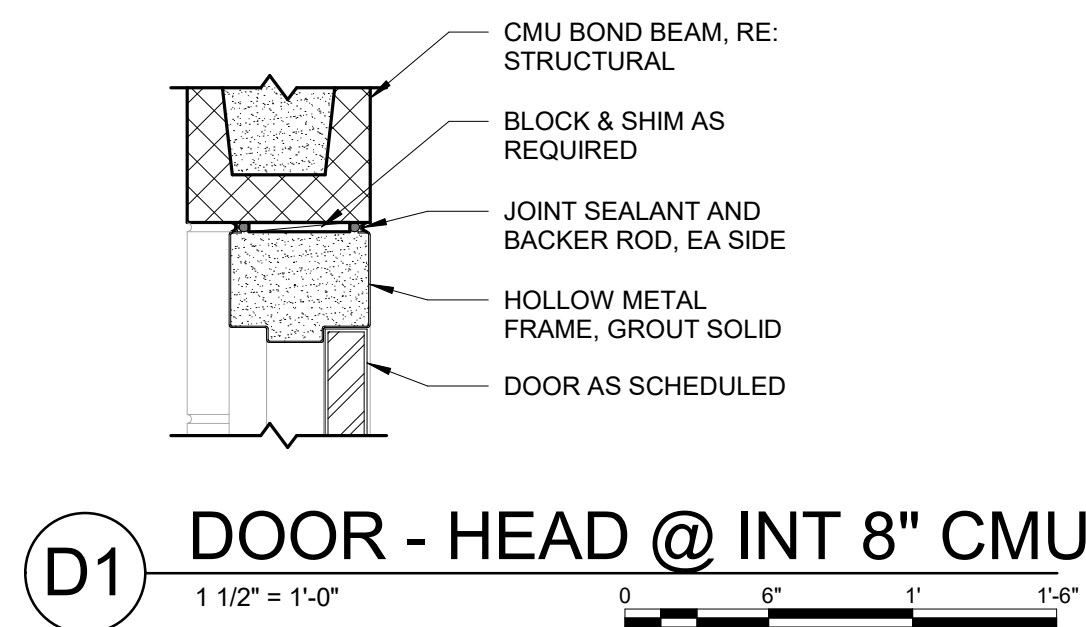
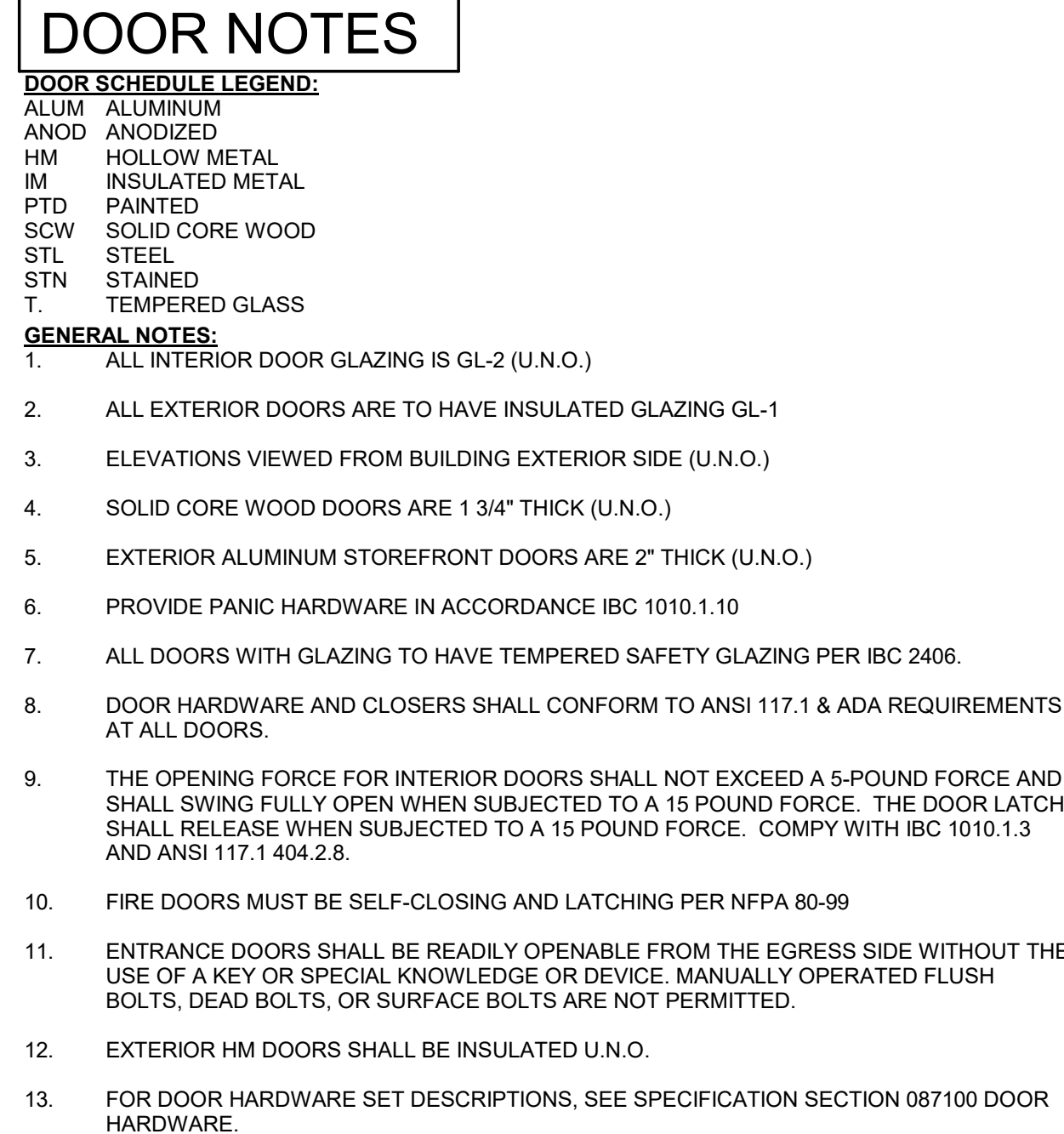
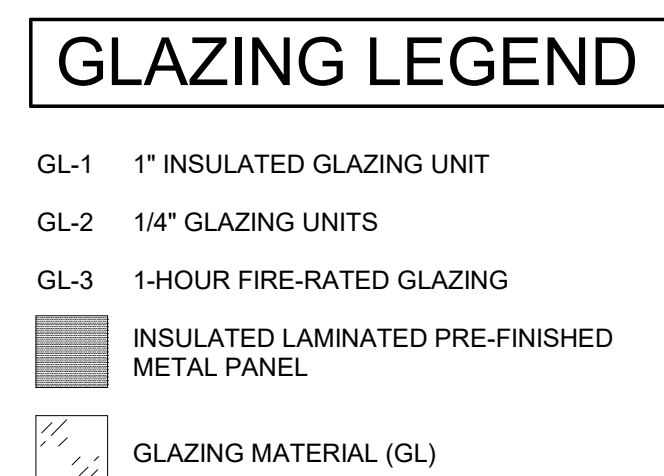
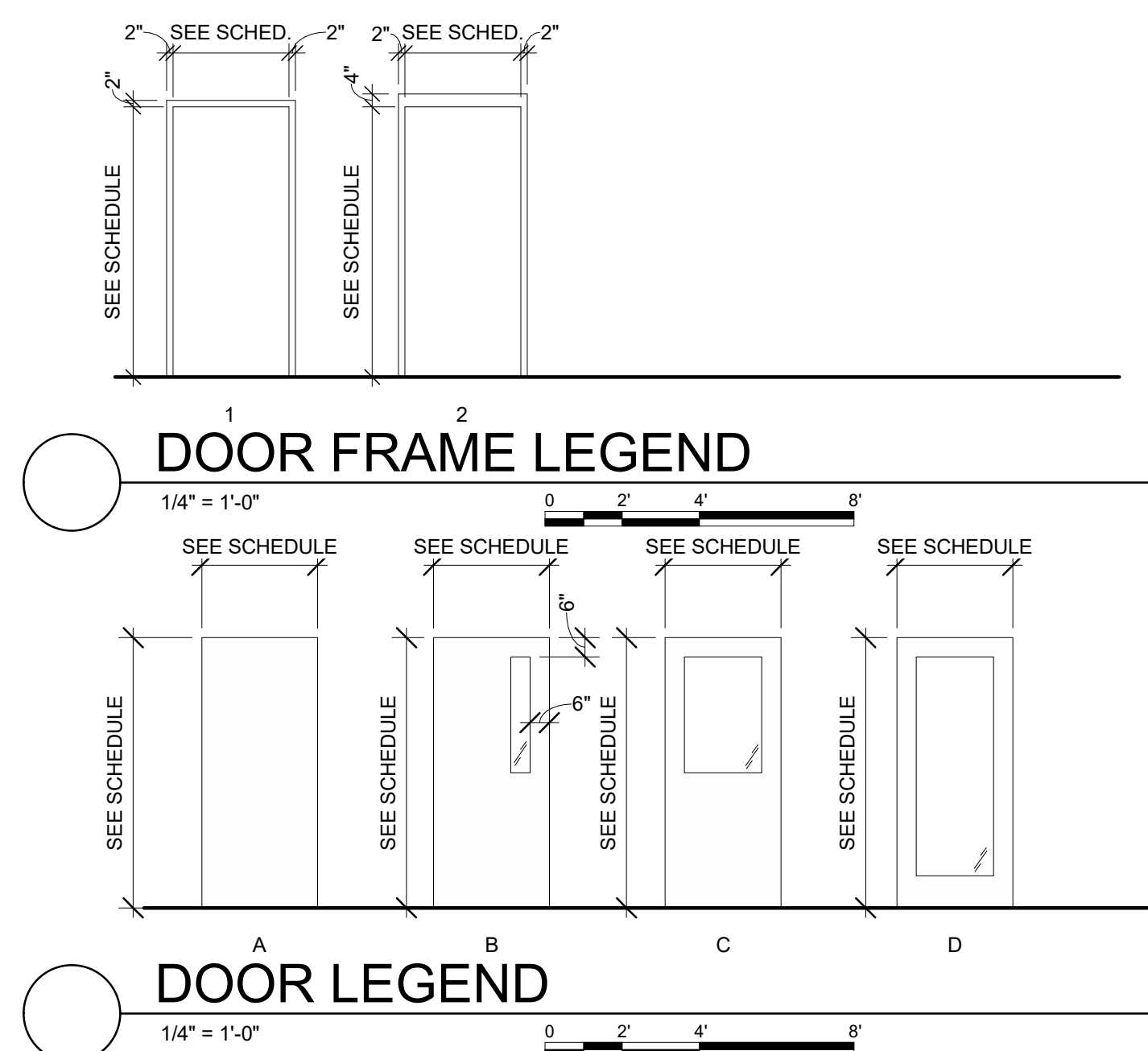
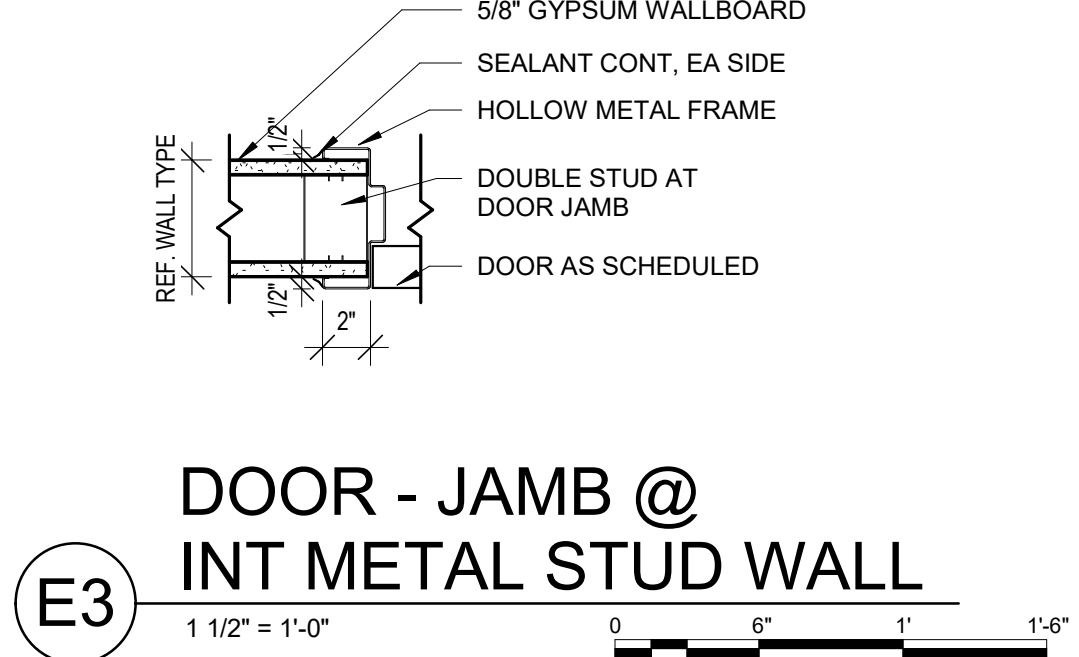
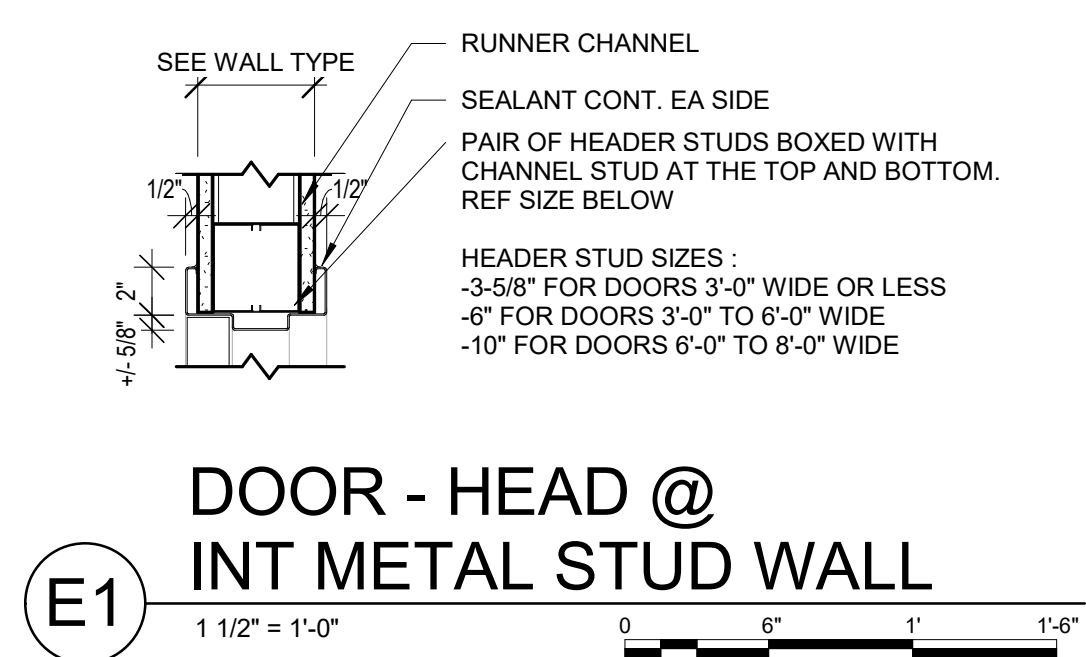
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EXTERIOR DOOR DETAILS

A-613



DOOR SCHEDULE																
MARK	ROOM NAME	DOOR						FRAME			DETAIL				HDMR NOTES	REMARKS
		SIZE		TYPE	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL			
		WIDTH	HEIGHT													
100A	ENTRY VEST.	3'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	ALUM	ANOD	B3/A-613	B1/A-613	A1/A-613	HW-7	PANIC HARDWARE	
100B	KITCHEN	3'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	ALUM	ANOD	B1/A-621	B3/A-621	A7/A-622	HW-1	PANIC HARDWARE, CARD READER	
101	PUBLIC TOILET	3'-0"	7'-0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	E7/A-622	HW-3		
103	ADMIN. TOILET	3'-0"	7'-0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	E7/A-622	HW-3		
105	TEL / RADIO	3'-0"	7'-0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	A5/A-622	HW-2	45 MIN. FIRE RATING	
106	CONF. RM.	3'-0"	7'-0"	D	SCW	STN	GL-2	1	HM	PTD	E1/A-621	E3/A-621	A5/A-622	HW-4		
108	CAPTAIN'S OFFICE	3'-0"	7'-0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621 & A7/A612	A5/A-622	HW-4		
109A	RAMP	3'-0"	7'-0"	C	SCW	PTD	GL-2	1	HM	PTD	B3/A-613	B4/A-613	A1/A-613	HW-2	PANIC HARDWARE	
109B	RAMP	3'-0"	7'-0"	D	ALUM	ANOD	-	1	ALUM	ANOD	B3/A-613	B4/A-613	A1/A-613	HW-1	PANIC HARDWARE	
109C	RAMP	3'-0"	7'-6"	C	HM	PTD	GL-2	1	HM	PTD	D1/A-621	D3/A-621	-	HW-1	CARD READER	
110	EMS STOR.	3'-0"	7'-6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2	CARD READER	
111	APPARATUS BAY	3'-0"	7'-6"	A	STL	PTD	-	1	STL	PTD	B3/A-622	A3/A-622	-	HW-8	STORM SHELTER - 2 HR. FIRE RATING, CARD READER	
112A	DECON	3'-0"	7'-6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2		
112B	DECON	3'-0"	7'-6"	A	STL	PTD	-	1	STL	PTD	B3/A-622	A3/A-622	-	HW-8	STORM SHELTER- 2 HR. FIRE RATING, CARD READER	
113A	DECON TOIL.	3'-0"	7'-6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2		
113B	RAMP	3'-0"	7'-6"	A	HM	PTD	-	1	HM	PTD	B3/A-622	A3/A-622	-	HW-8	STORM SHELTER - 2 HR. FIRE RATING	
114A	RAMP	3'-6"	7'-0"	C	SCW	PTD	GL-2	1	HM	PTD	E1/A-621	E3/A-621	-	HW-2	PANIC HARDWARE	
114B	RAMP	3'-0"	7'-6"	D	ALUM	ANOD	GL-1	-	ALUM	ANOD	B3/A-613	A7/A-613	A1/A-613	HW-1	PANIC HARDWARE	
114C	APPARATUS BAY	3'-0"	7'-6"	C	HM	PTD	GL-2	1	HM	PTD	D1/A-621	D3/A-621	-	HW-1	CARD READER	
115	JAN.	3'-0"	7'-0"	A	HM	PTD	-	1	HM	PTD	E1/A-621	E3/A-621	-	HW-2		
116A	KITCHEN	3'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	ALUM	ANOD	B3/A-613	A7/A-613	A1/A-613	HW-1	PANIC HARDWARE	
116B	KITCHEN	3'-0"	7'-0"	D	ALUM	ANOD	GL-2	-	ALUM	ANOD	B3/A-613	B3/A-621 & A7/A-613	A1/A-613	HW-1	PANIC HARDWARE	
119A	APPARATUS BAY	14'-0"	14'-0"		STL	PTD	-	-	STL	PTD	-	-	-		FOUR FOLD OUTSWING DOOR	
119B	APPARATUS BAY	14'-0"	14'-0"		STL	PTD	-	-	STL	PTD	-	-	-		FOUR FOLD OUTSWING DOOR	
119C	APPARATUS BAY	14'-0"	14'-0"		STL	PTD	-	-	STL	PTD	-	-	-		FOUR FOLD OUTSWING DOOR	
119D	APPARATUS BAY	3'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	ALUM	ANOD	B3/A-613	B4/A-613 SIM. & A5/A-613	A1/A-613	HW-1	PANIC HARDWARE	
119E	APPARATUS BAY	3'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	ALUM	ANOD	B3/A-613	B4/A-613 SIM. & A5/A-613	A1/A-613	HW-1	PANIC HARDWARE	
119F	APPARATUS BAY	14'-0"	14'-0"		ALUM	PTD	-	-	STL	GALV	-	-	-		OVERHEAD SECTIONAL DOOR	
119G	APPARATUS BAY	14'-0"	14'-0"		ALUM	PTD	-	-	STL	GALV	-	-	-		OVERHEAD SECTIONAL DOOR	
119H	APPARATUS BAY	14'-0"	14'-0"		ALUM	PTD	-	-	STL	GALV	-	-	-		OVERHEAD SECTIONAL DOOR	
120	UTILITY	3'-0"	7'-6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2	PANIC HARDWARE	
121A	SHOP	3'-0"	7'-6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2	PANIC HARDWARE	
121B	SHOP	3'-0"	7'-6"	A	HM	PTD	-	1	HM	PTD	D1/A-621	D3/A-621	-	HW-2	PANIC HARDWARE	
122A	APPARATUS BAY	3'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	ALUM	ANOD	B3/A-613	B4/A-613 SIM. & A5/A-613	A1/A-613	HW-1	PANIC HARDWARE	
122B	EXERCISE / WELLNESS	6'-0"	7'-0"	D	ALUM	ANOD	GL-1	-	ALUM	ANOD	A7/A-613	D2/A-613	A1/A-613	HW-7	DOOR PAIR, 90 DEGREE HOLD OPEN	
200	CORRIDOR	3'-0"	7'-0"	B	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	B7/A-622	HW-2	PANIC HARDWARE	
202	LOCKERS	3'-0"	7'-0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2		
202A	BUNK	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
202B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
203	LOCKERS	3'-0"	7'-0"	A	SCW	STN	-	1	HM	PTD	E1/A-621	E3/A-621	C7/A-622	HW-2		
203A	CAPTAIN'S BUNK	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
203B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
204B	MEZZANINE	3'-0"	7'-0"	B	SCW	STN	GL-2	1	HM	PTD	E1/A-621	E3/A-621	A5/A-622	HW-2		
205	LAUNDRY/JAN.	3'-0"	7'-0"	A	SCW	STN	-	1	HM	PTD	C1/A-621	C3/A-621	D7/A-622	HW-2		
206	MECH.	3'-0"	7'-0"	B	SCW	STN	GL-2	1	HM	PTD	C1/A-621	C3/A-621	A5/A-622	HW-2		
207	GENERAL STORAGE	3'-0"	7'-0"	A	SCW	STN	-	1	HM	PTD	C1/A-621	C3/A-621	A5/A-622	HW-2		
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208A	BUNK	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
208B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
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209A	BUNK	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
209B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
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210B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
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211B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
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212A	BUNK	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
212B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	
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213A	BUNK	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	-	HW-3	POCKET DOOR	
213B	TOILET	3'-0"	7'-0"	A	SCW	STN	-	-	HM	PTD	A1/A-621	A3/A-621	D7/A-622	HW-3	POCKET DOOR	

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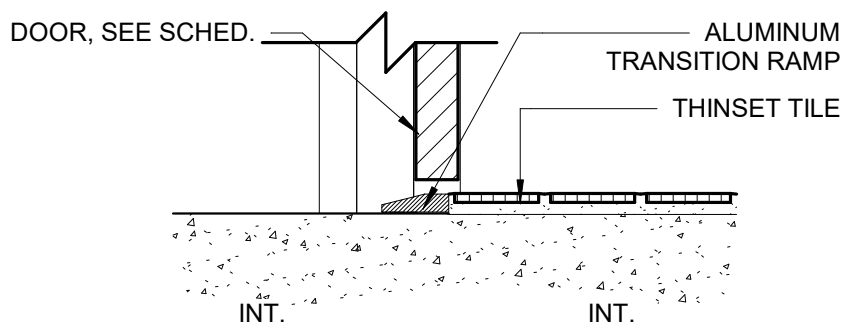
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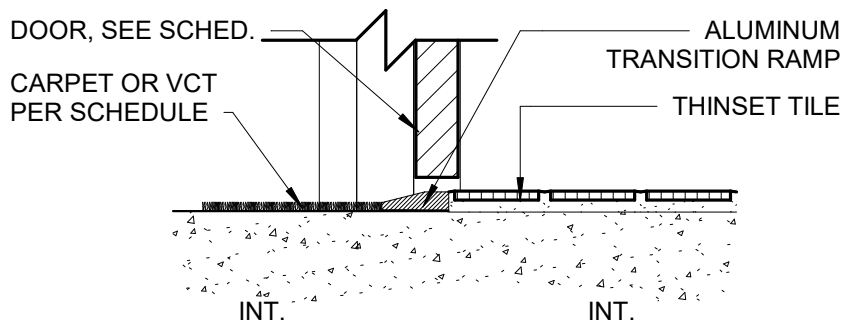
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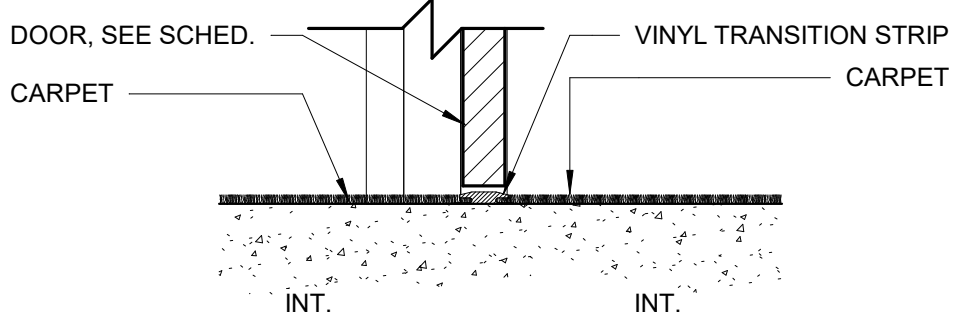
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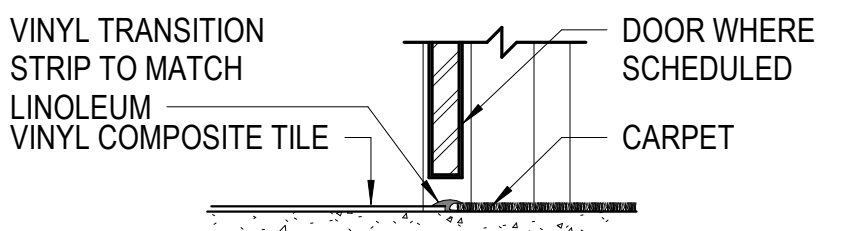
E7 THRESHOLD - CONC TO TILE



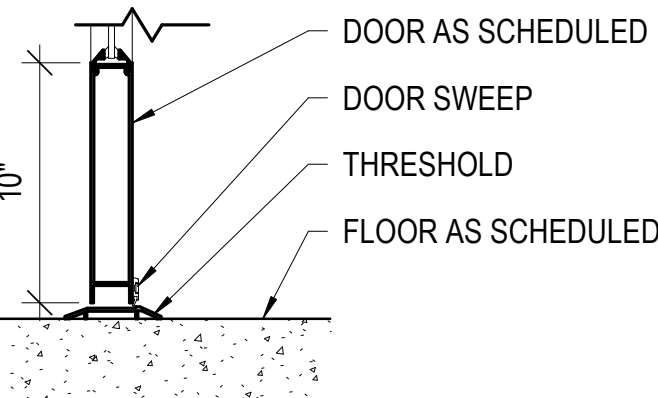
D7 THRESHOLD - CPT, LVT, VCT TO TILE



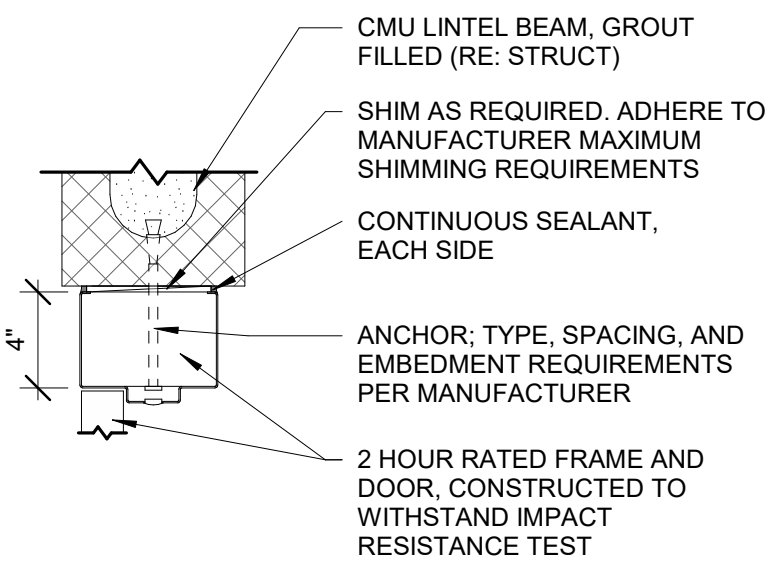
C7 THRESHOLD - CPT TO CPT



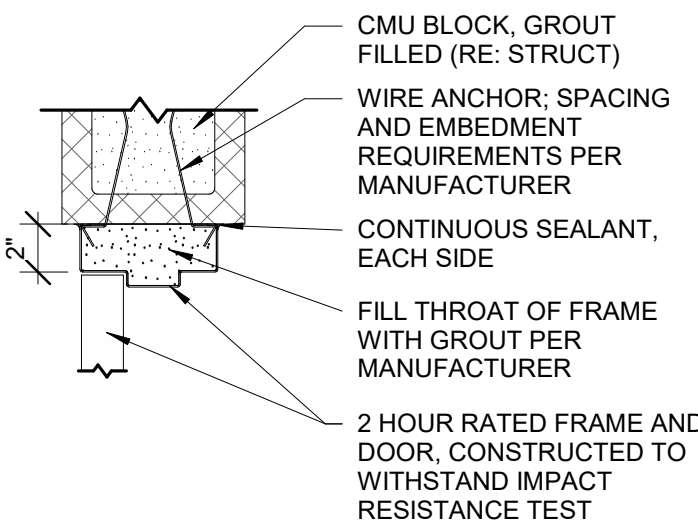
B7 THRESHOLD - VCT TO CPT



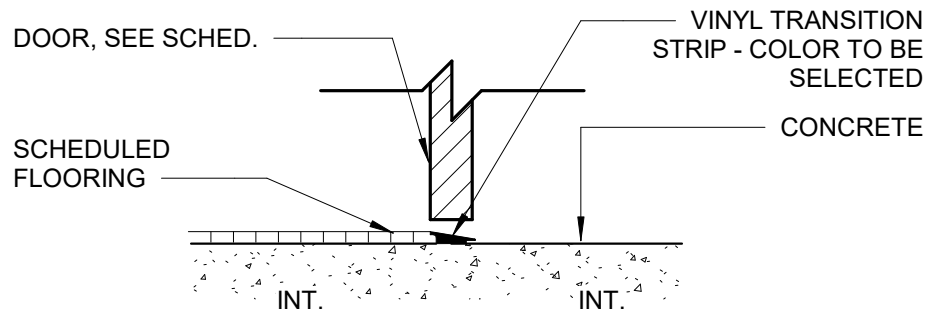
A7 STOREFRONT - SILL - DOOR



B3 DOOR HEADER STORM SHELTER



A3 DOOR JAMB STORM SHELTER



A5 THRESHOLD - INT CONC TO CPT, VCT, RF

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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:		
#	Description	Date



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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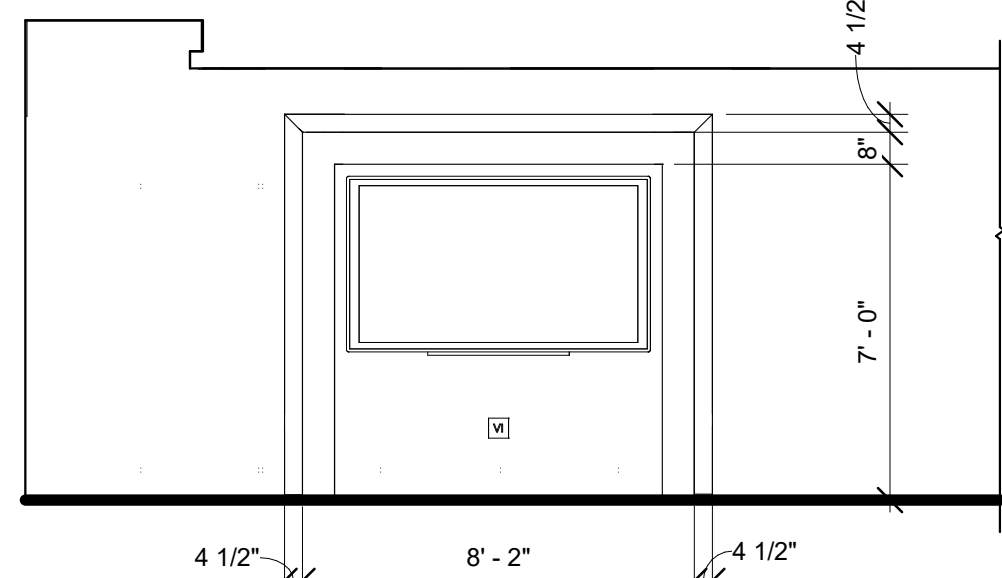
PROJECT NO:	18225R21001
DATE:	11.21.2022
DRAWN BY:	KSK
CHK'D BY:	PJM

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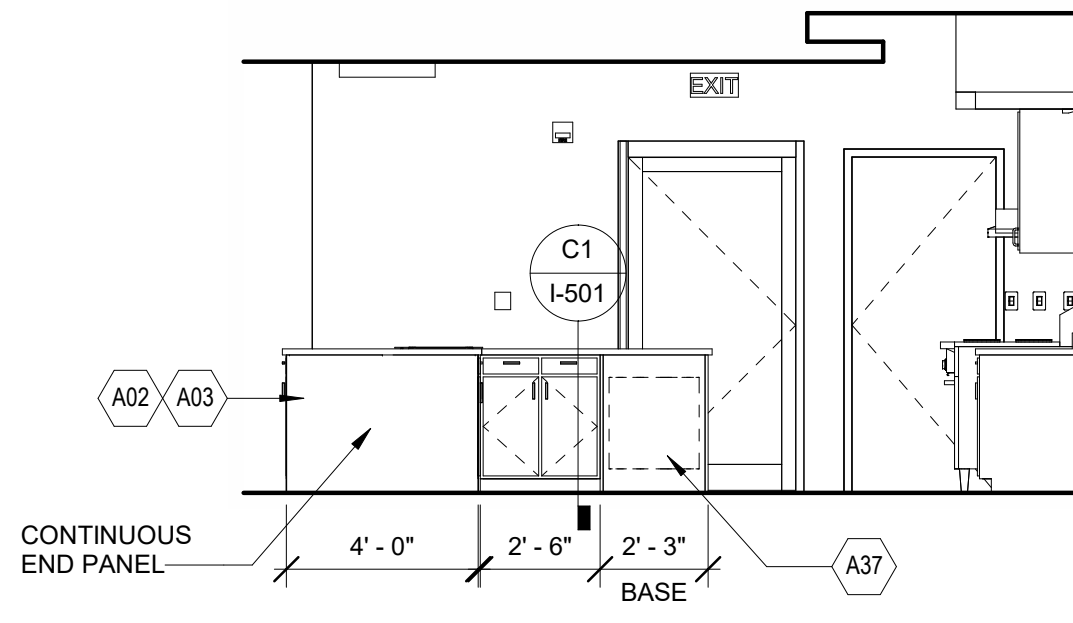
DOOR DETAILS

A-622

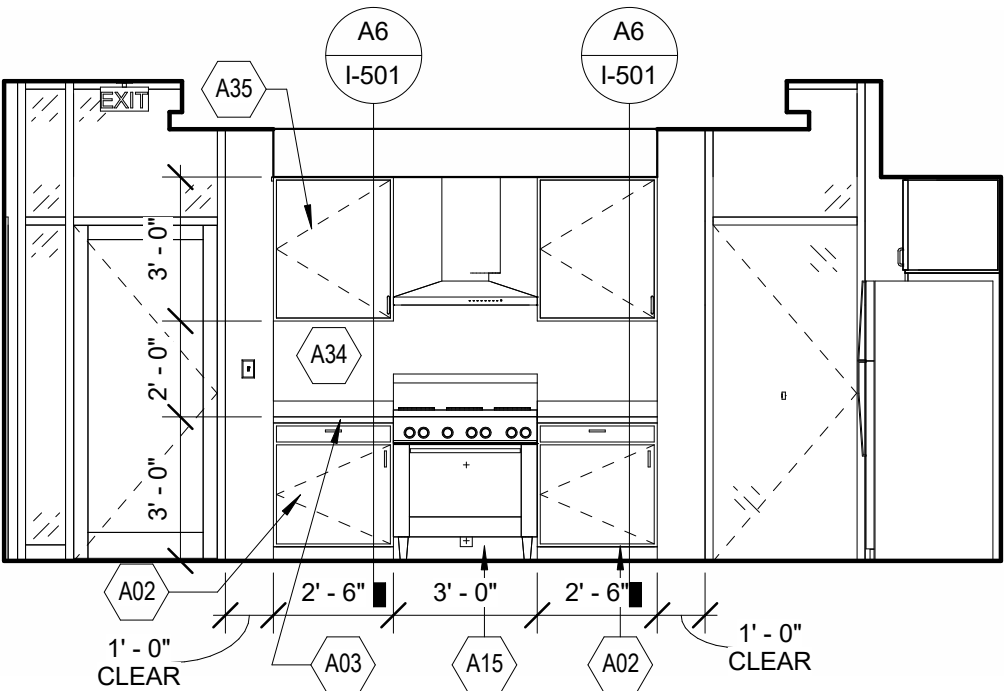
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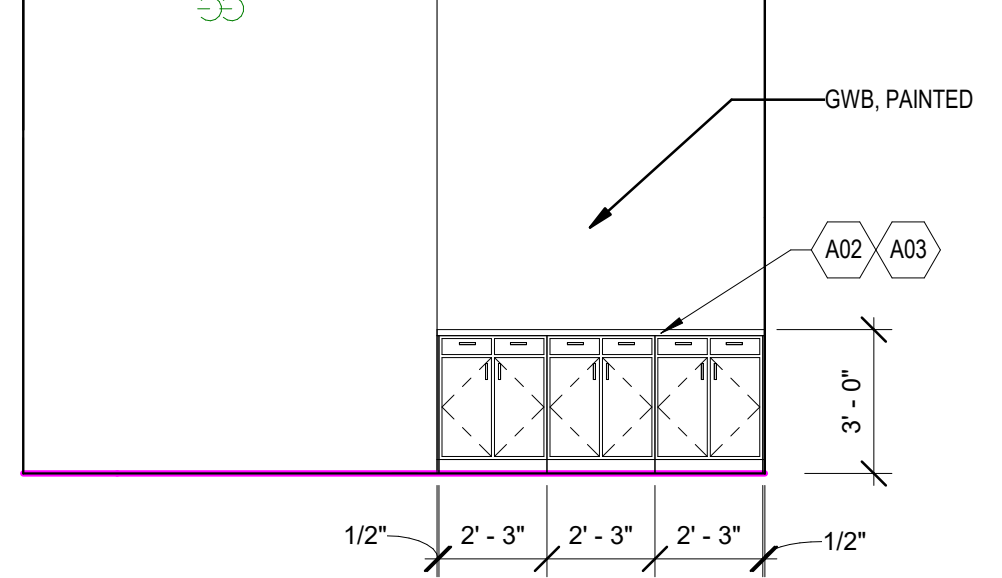
D2 DAY ROOM ELEVATION
1/4" = 1'-0"



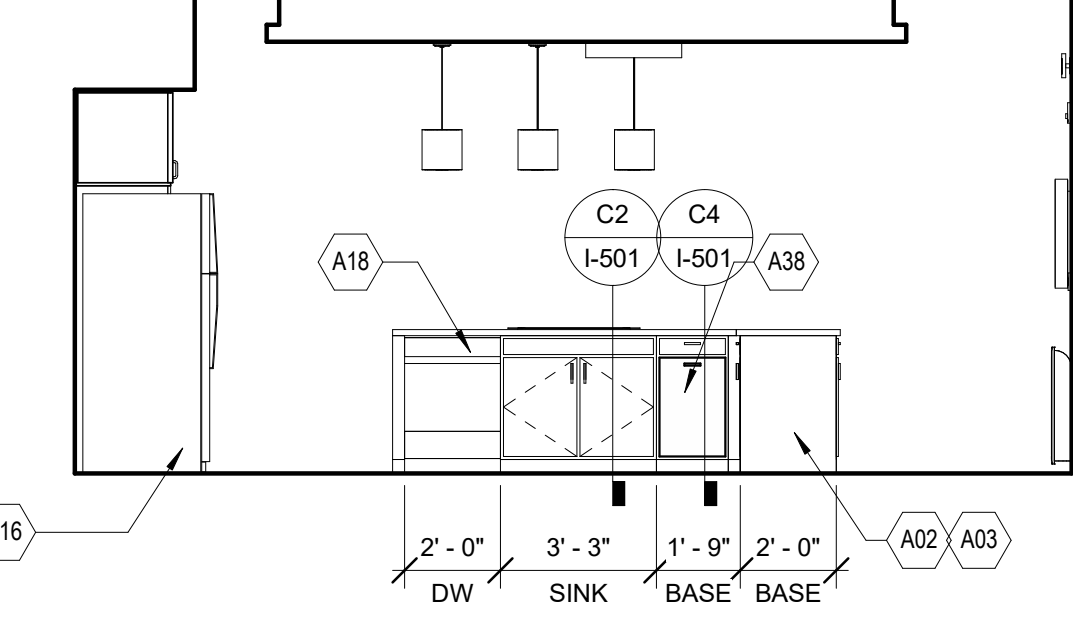
D3 KITCHEN NORTH ELEVATION
1/4" = 1'-0"



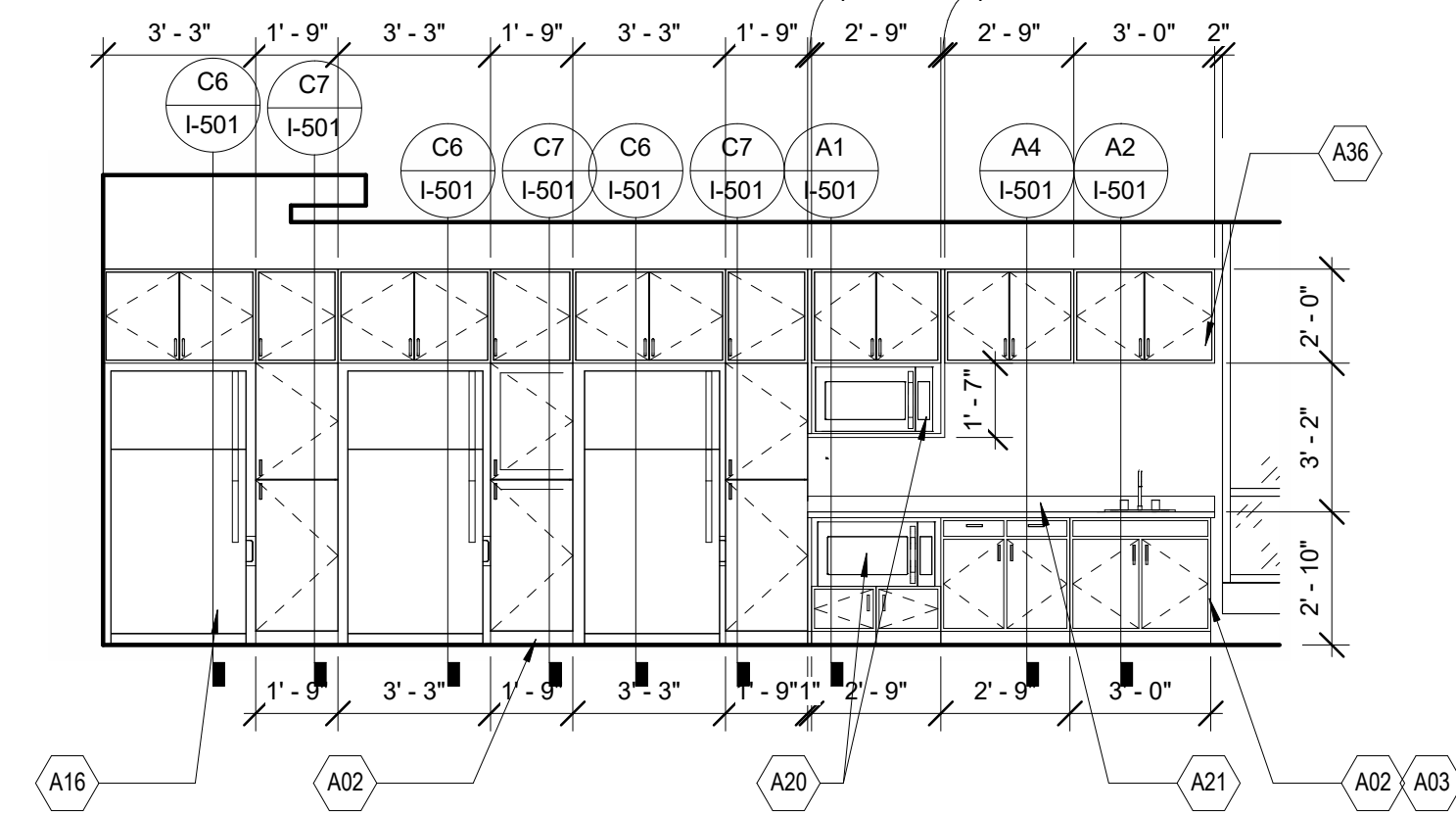
D5 KITCHEN WEST ELEVATION
1/4" = 1'-0"



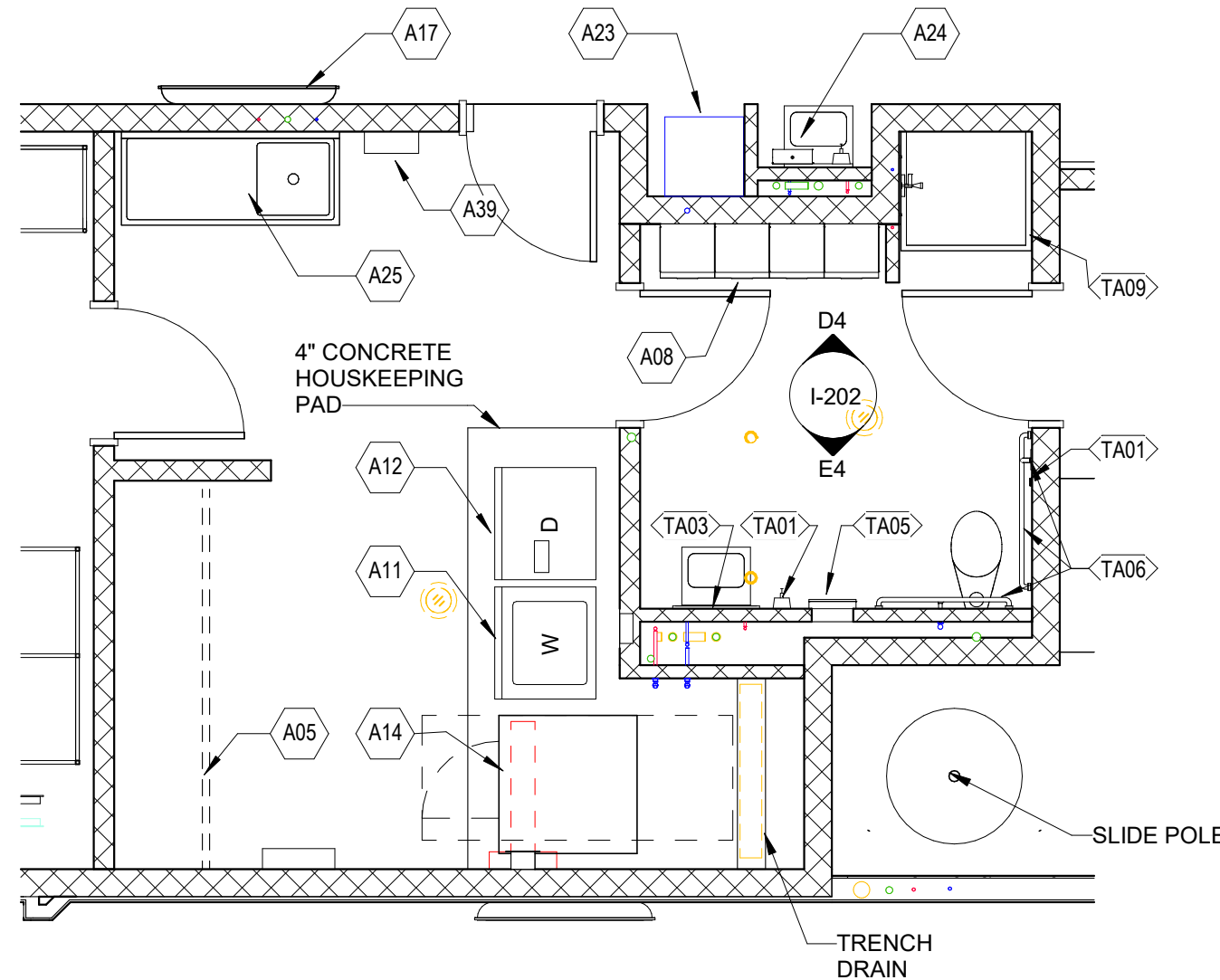
C2 CONF. ROOM EAST ELEVATION
1/4" = 1'-0"



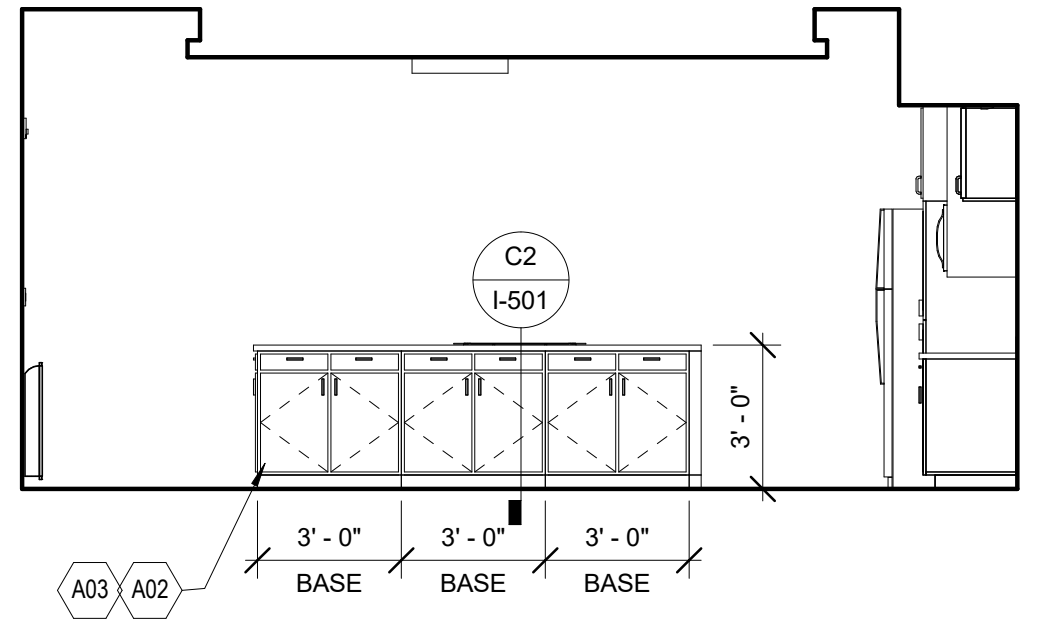
C3 KITCHEN ISLAND EAST ELEVATION
1/4" = 1'-0"



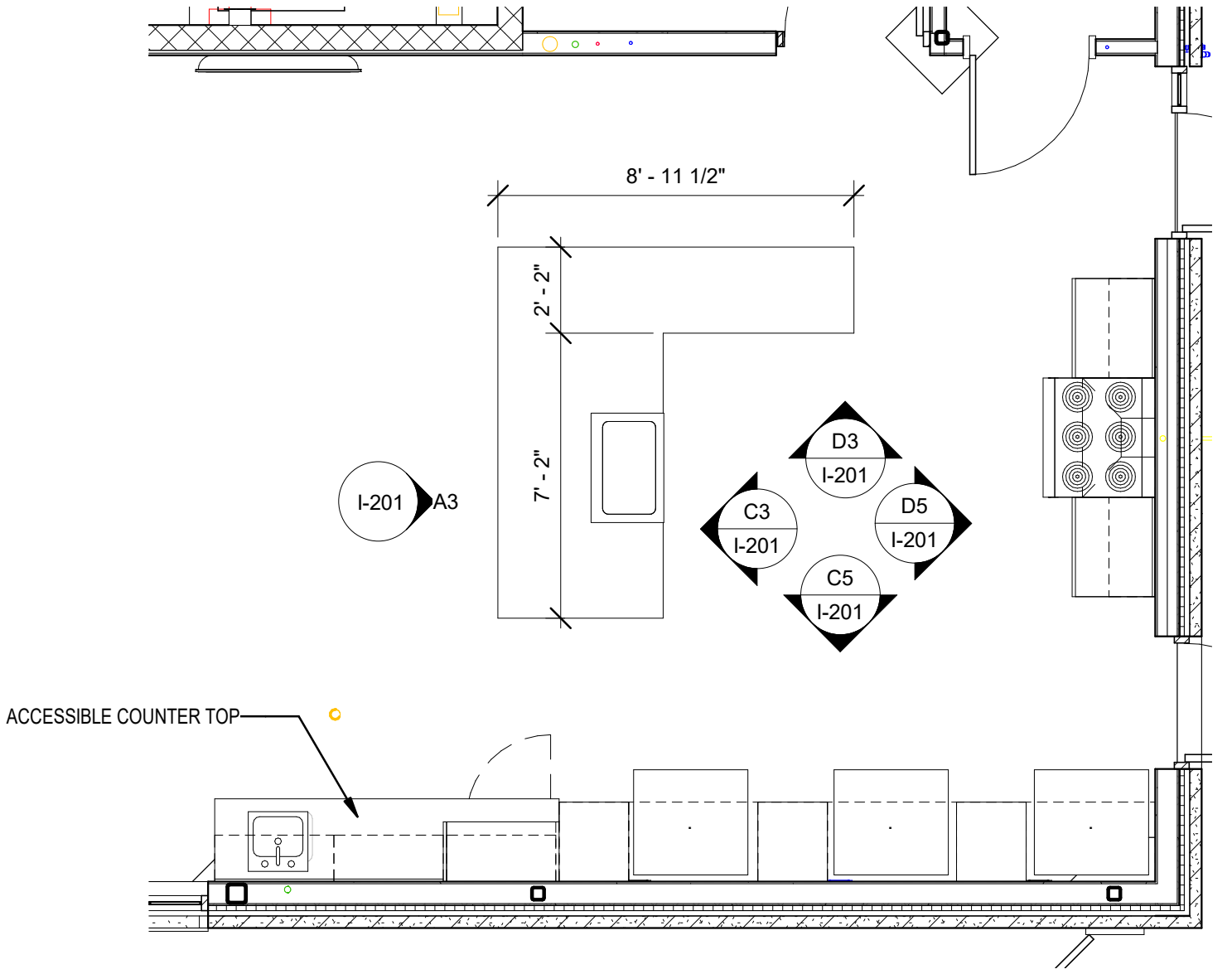
C5 KITCHEN SOUTH ELEVATION
1/4" = 1'-0"



A1 DECON ENLARGED FLOOR PLAN
1/4" = 1'-0"



A3 KITCHEN ISLAND WEST ELEVATION
1/4" = 1'-0"



A5 KITCHEN ENLARGED PLAN
1/4" = 1'-0"

KEYNOTES	
Note Number	Note Description
A02	PLYBOO BASE CABINETS
A03	QUARTZ COUNTERTOP
A05	GEAR DRYER RACK (HEAVY-DUTY HANGING ROD) W/ WIRE SHELF ABOVE ROD
A08	5-TIER METAL PERSONAL LOCKERS
A11	HEAVY-DUTY RESIDENTIAL WASHER, OFCI
A12	HEAVY-DUTY RESIDENTIAL DRYER, OFCI
A14	COMMERCIAL WASHER/EXTRACTOR, BASIS OF DESIGN: HUESSCH MODEL HYND40FNH, OFOI
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
A18	DISHWASHER-OFCI
A20	MICROWAVE - OFOI
A21	COFFEE MAKER - OFOI
A23	BOOT WASH, SEE PLUMBING
A24	HAND WASHING SINK FOR CONTAMINANT CONTROL W/ EYEWASH ATTACHMENT, SEE PLUMBING
A25	2-COMPARTMENT STAINLESS STEEL SINK W/ DRAINBOARDS
A34	STAINLESS STEEL BACKSPLASH
A35	36" HIGH PLYBOO WALL CABINETS
A36	24" HIGH PLYBOO WALL CABINETS
A37	BELOW COUNTER TRASH RECEPTACLE, RUBBERMAID BRUTE 20 GALLON - MODEL FG262000, W/ DOLLY - MODEL FG264043BLA, OFOI
A38	PULL-OUT DOUBLE RECYCLING CABINET
A39	FIRST AID KIT

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



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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

#	Description	Date
1	ASB 01	11/21/2022



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CHK'D BY:	BJD

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**INTERIOR
DESIGN
ELEVATIONS**

I-201

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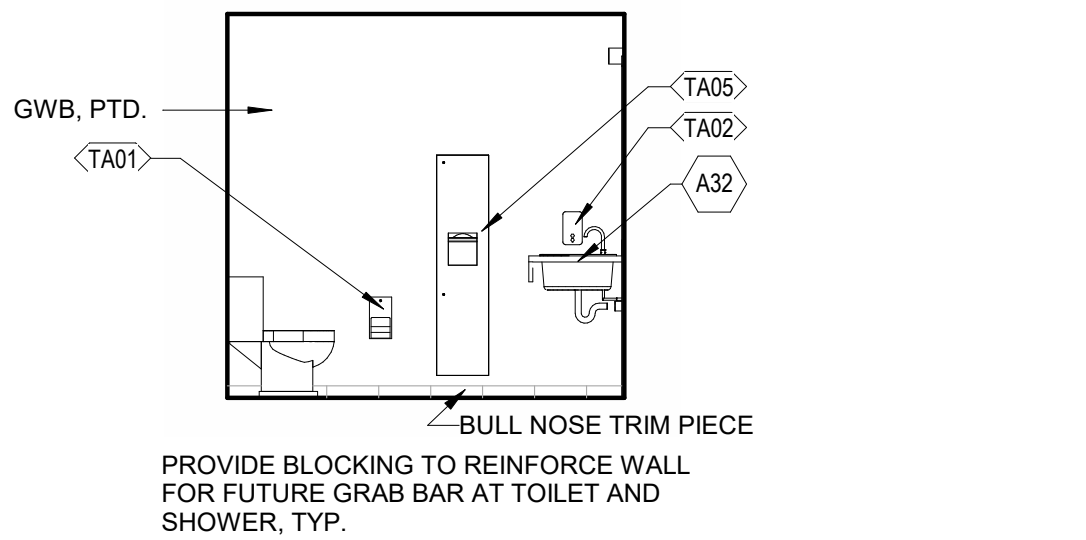
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D

C

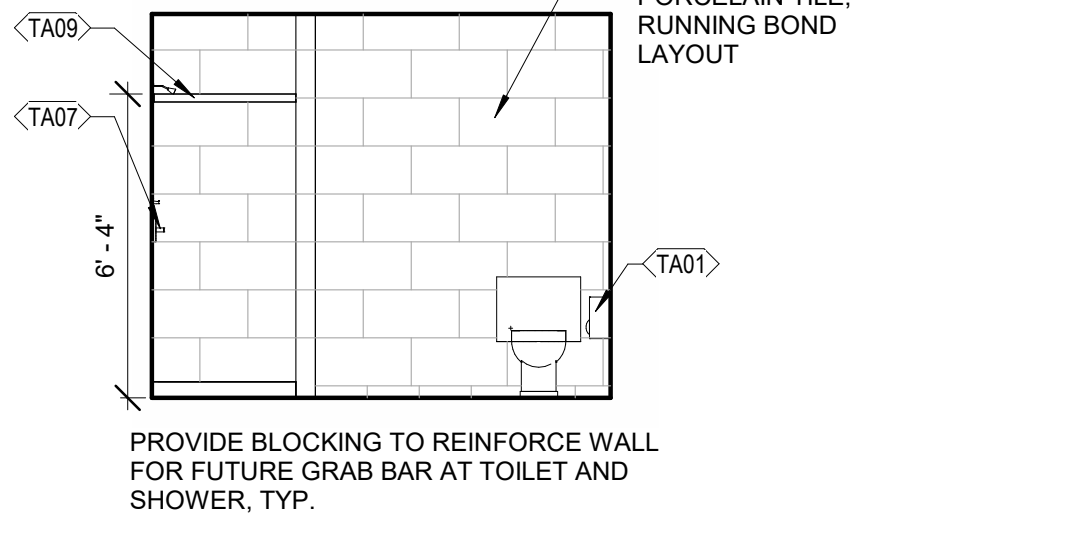
B

A



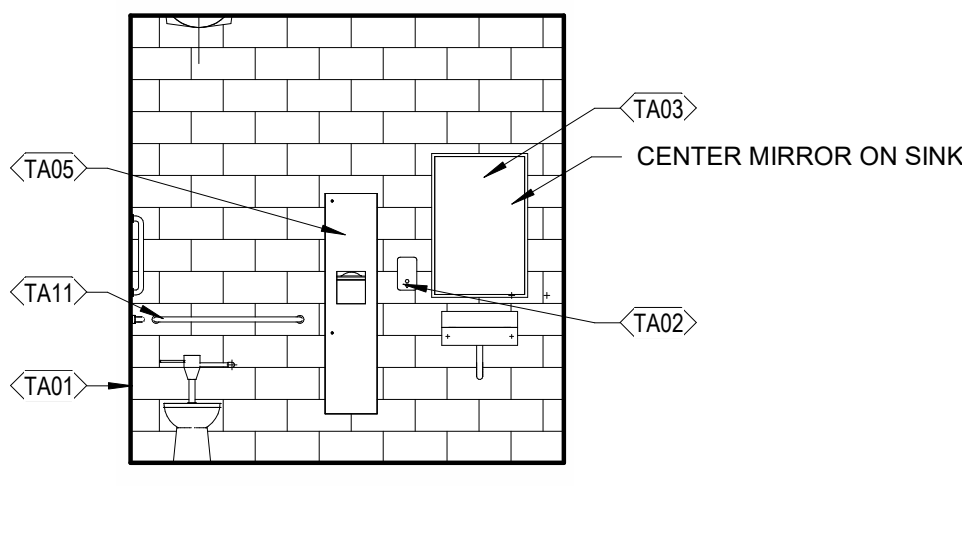
ROOM 203B
WEST ELEV.

E1 1/4" = 1'-0" 0 2' 4' 8'



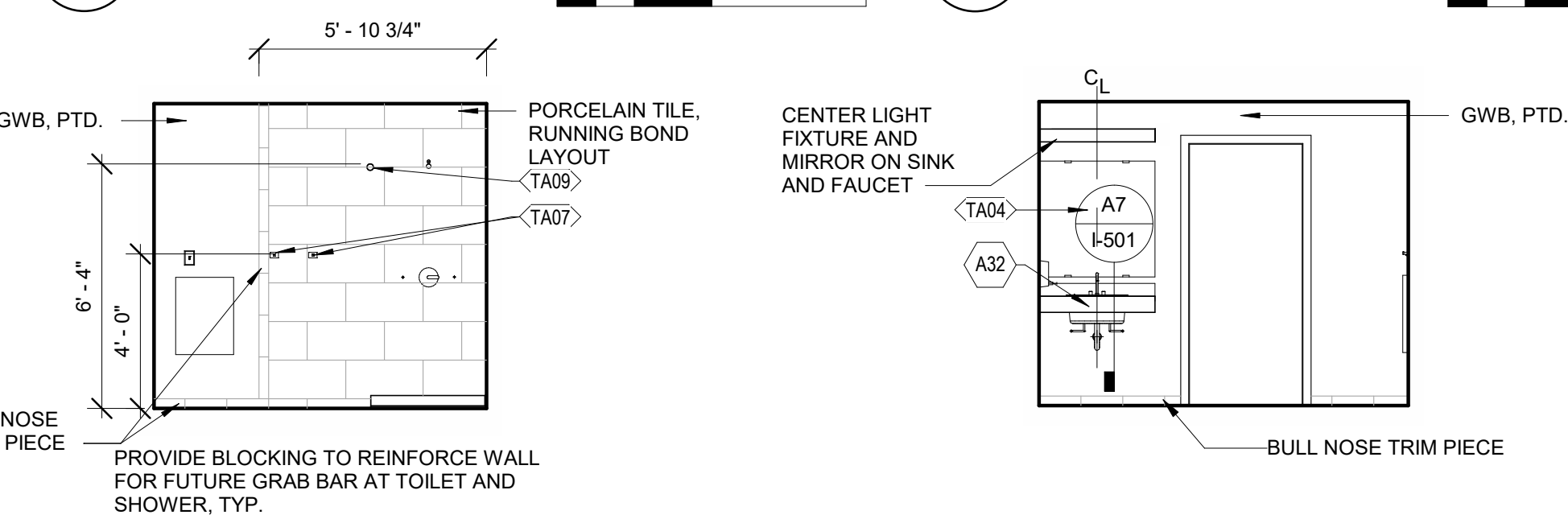
ROOM 203B
SOUTH ELEV.

E3 1/4" = 1'-0" 0 2' 4' 8'



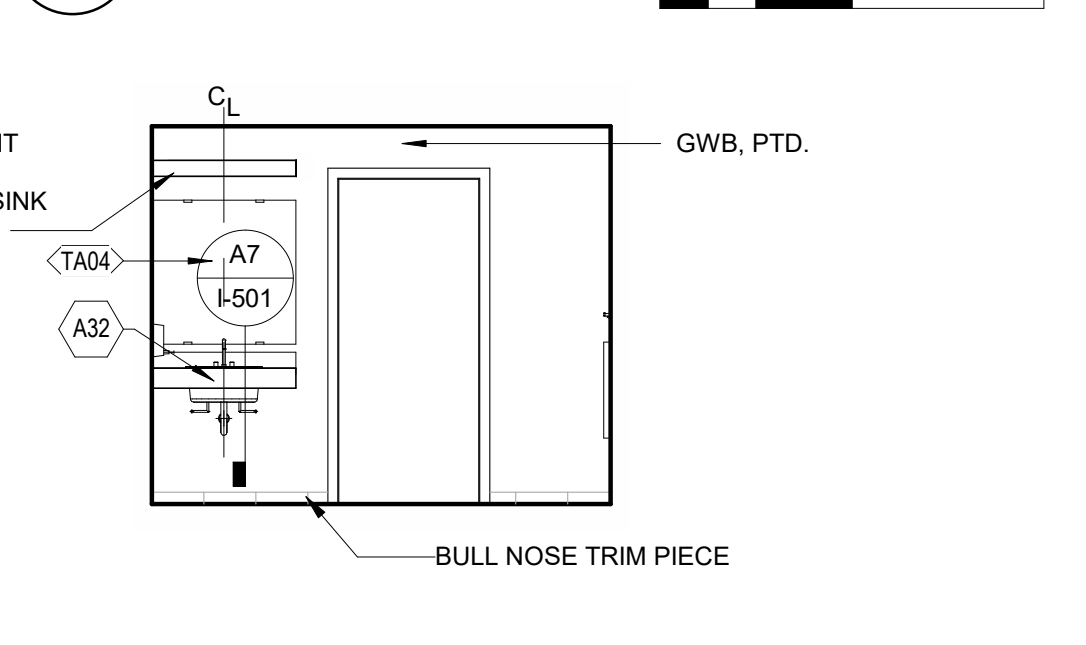
DECON TOILET
SOUTH ELEVATION

E4 1/4" = 1'-0" 0 2' 4' 8'



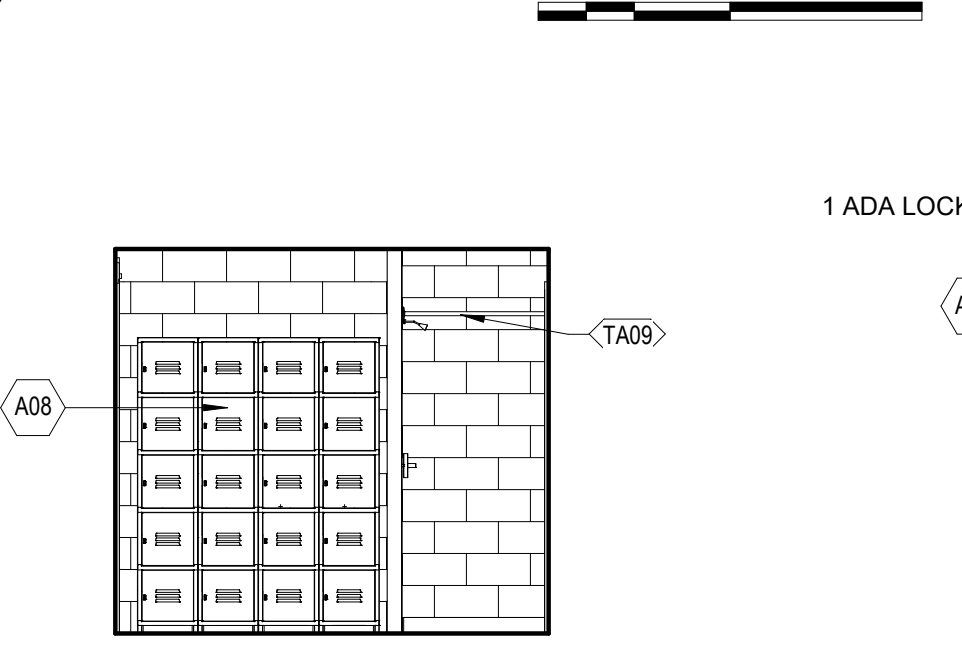
ROOM 203B
EAST ELEV.

D1 1/4" = 1'-0" 0 2' 4' 8'



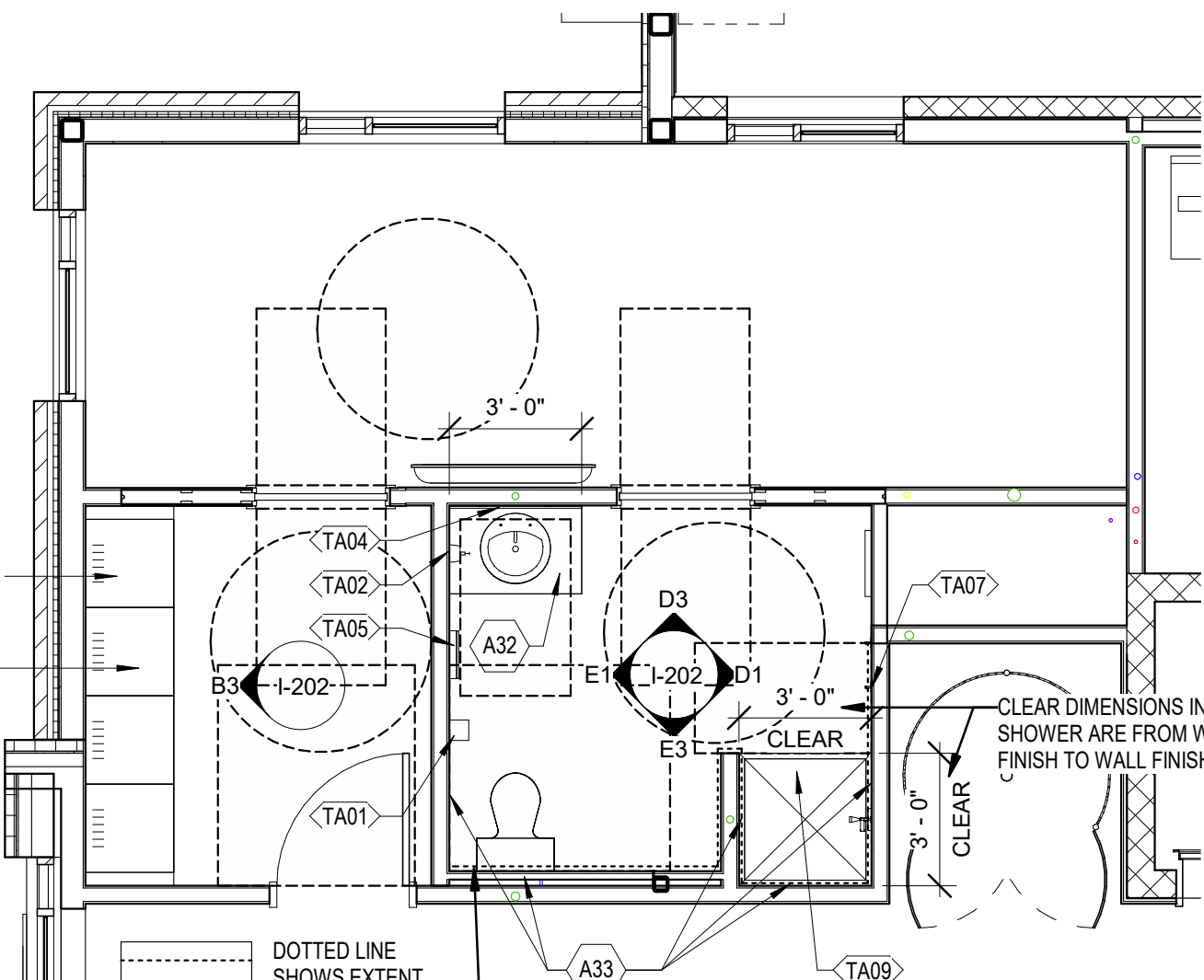
ROOM 203B
NORTH ELEV.

D3 1/4" = 1'-0" 0 2' 4' 8'



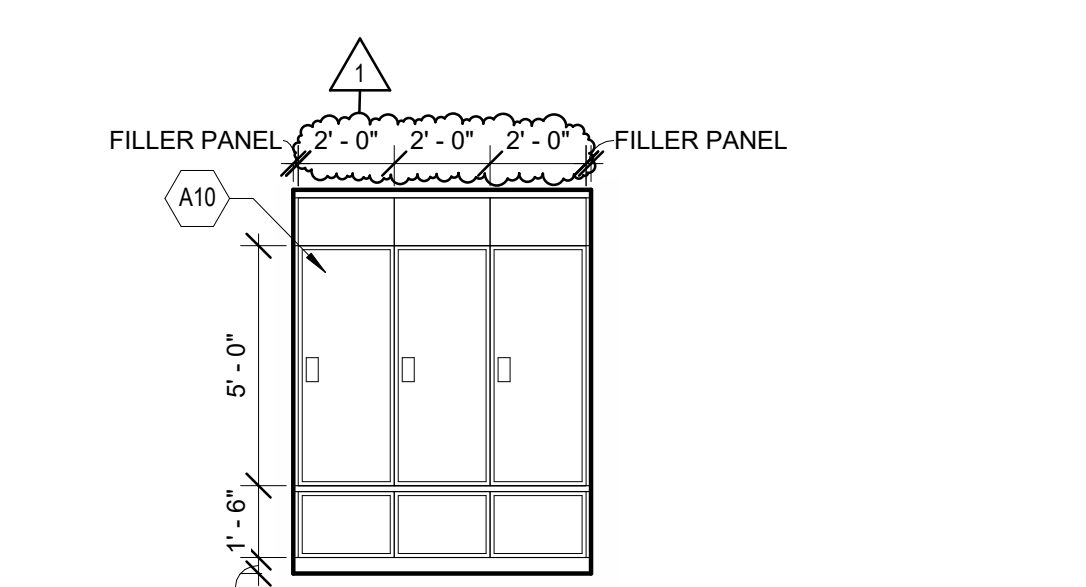
DECON TOILET
NORTH ELEVATION

D4 1/4" = 1'-0" 0 2' 4' 8'



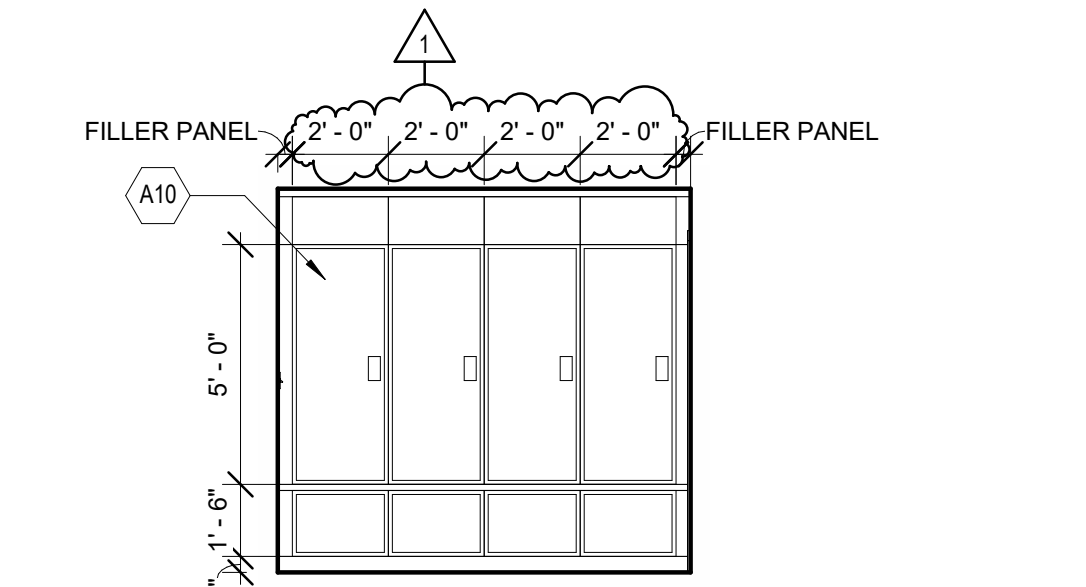
TYPE A BUNK ROOM ENLARGED

D5 1/4" = 1'-0" 0 2' 4' 8'



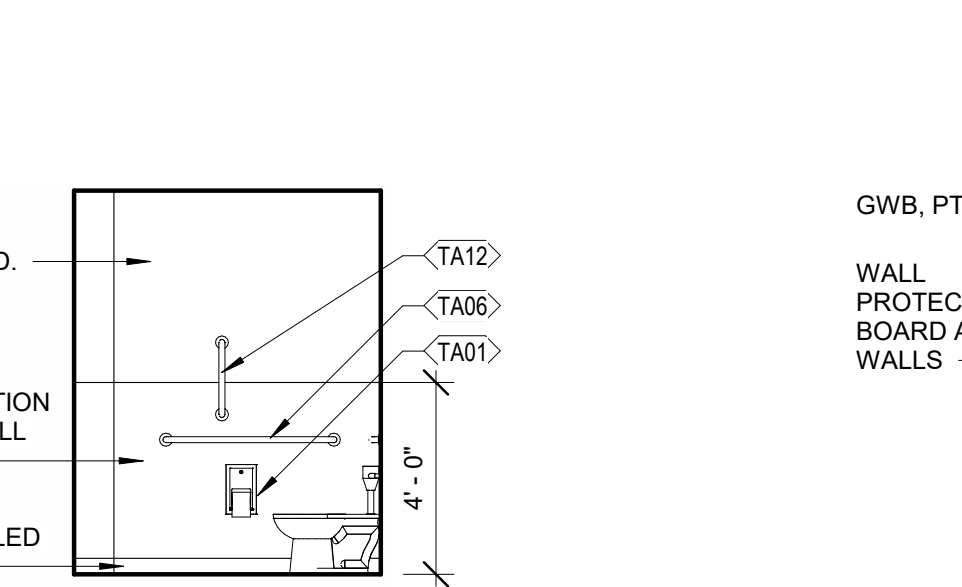
BUNK LOCKER
ELEVATION

B1 1/4" = 1'-0" 0 2' 4' 8'



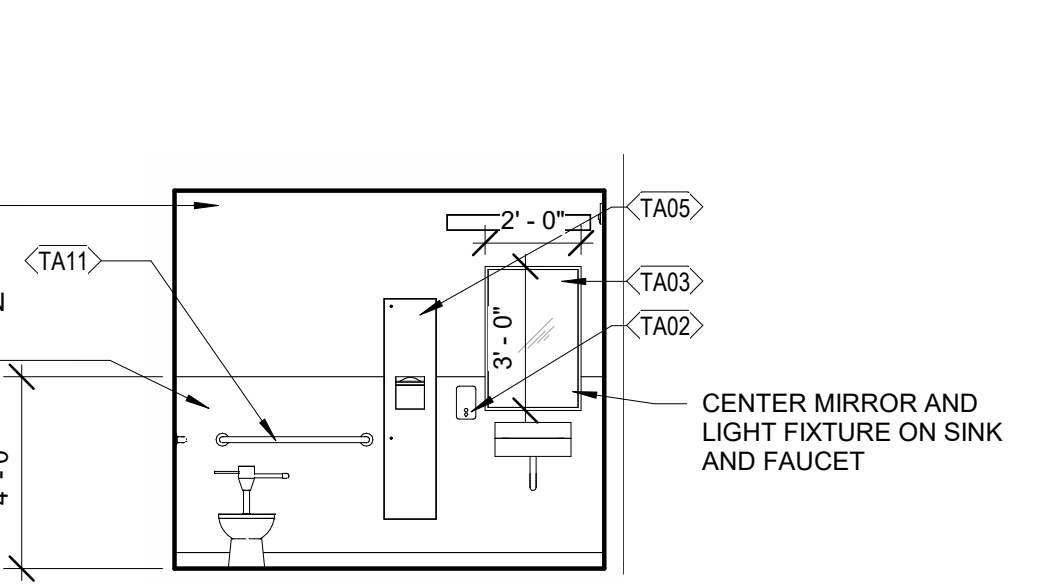
ROOM 203C -
LOCKER ELEV.

B3 1/4" = 1'-0" 0 2' 4' 8'



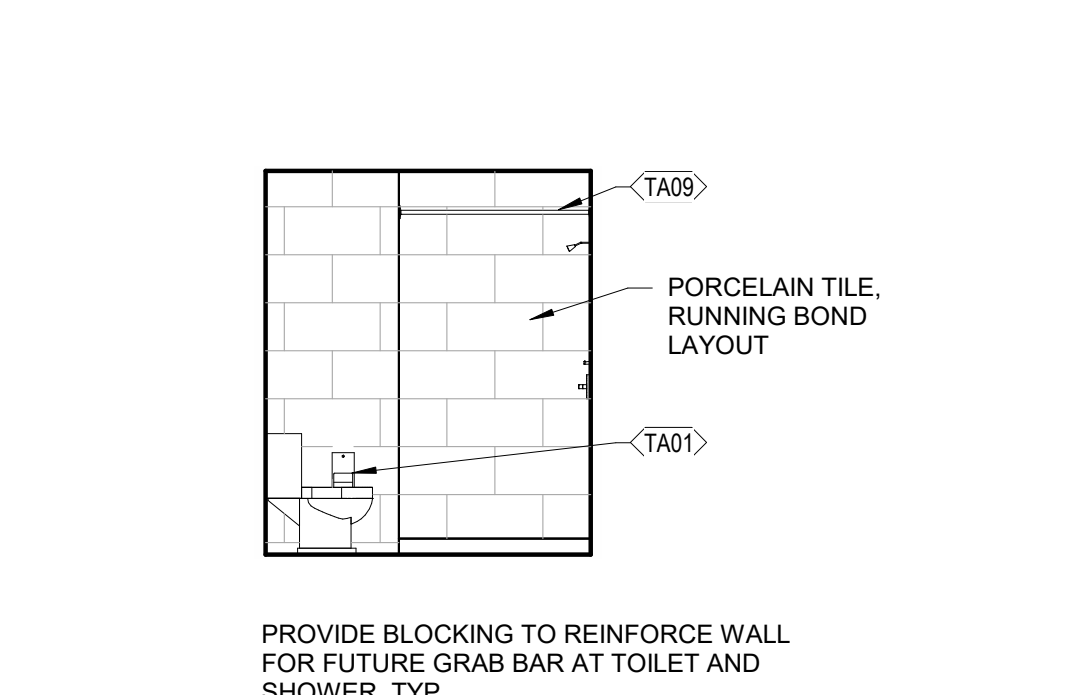
PUBLIC TOILET
ELEVATION

B4 1/4" = 1'-0" 0 2' 4' 8'



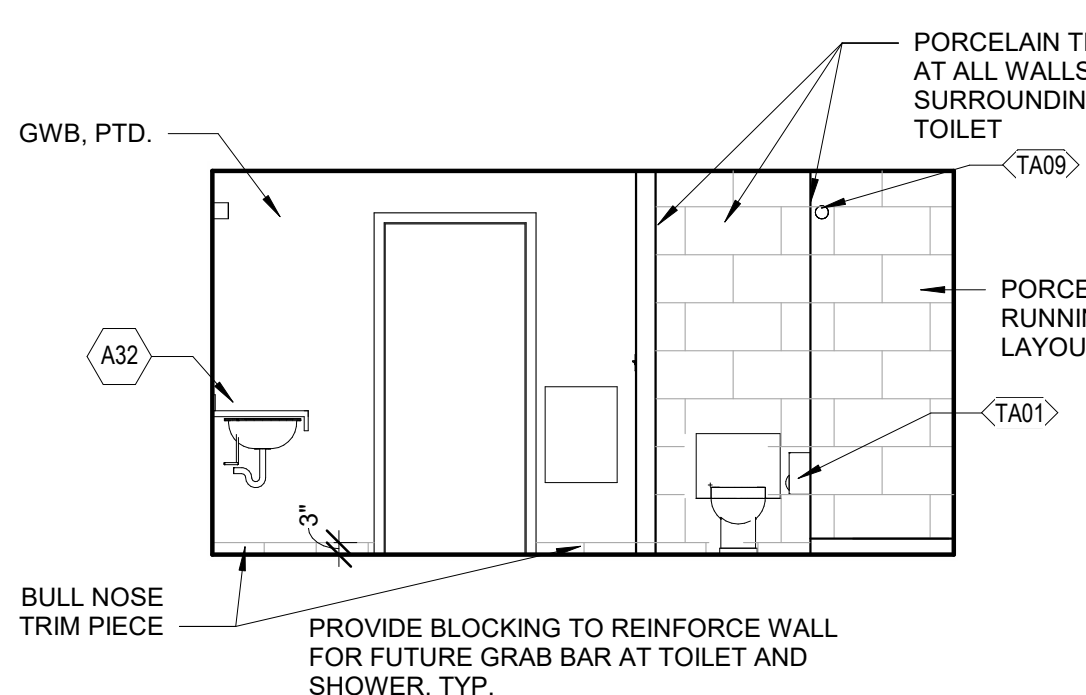
PUBLIC TOILET
ELEVATION

B5 1/4" = 1'-0" 0 2' 4' 8'



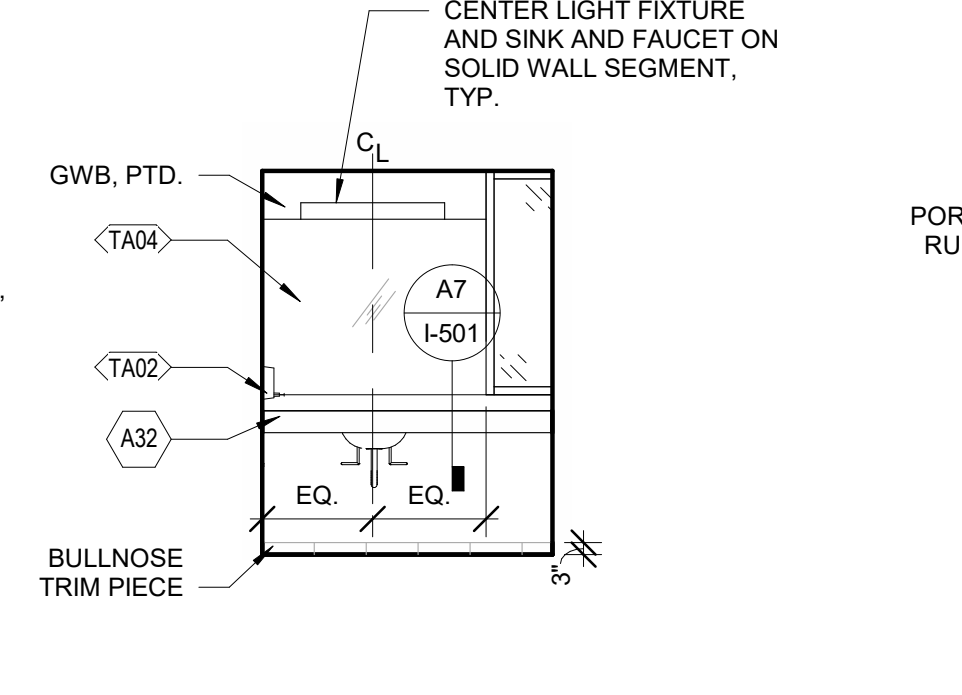
TYP. BUNK T/S
NORTH ELEVATION

A1 1/4" = 1'-0" 0 2' 4' 8'



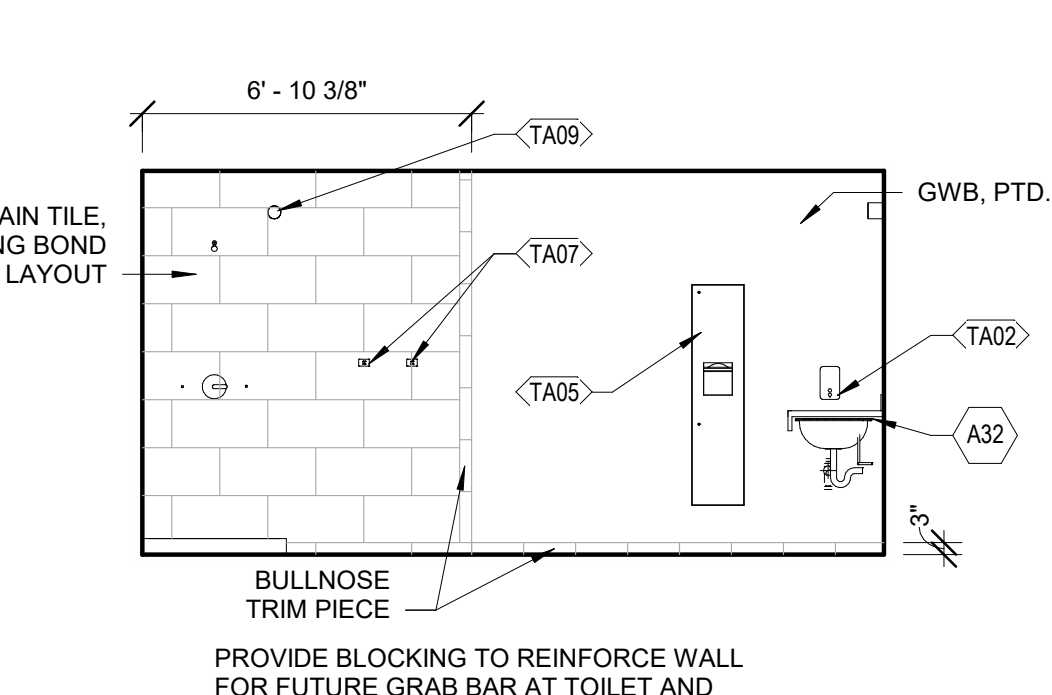
TYP. BUNK TOILET/
SHOWER EAST ELEV.

A3 1/4" = 1'-0" 0 2' 4' 8'



TYP. BUNK T/S
SOUTH ELEV.

A4 1/4" = 1'-0" 0 2' 4' 8'



TYP. BUNK TOILET/
SHOWER WEST ELEV.

A5 1/4" = 1'-0" 0 2' 4' 8'



TYPICAL BUNK ROOM
ENLARGED PLAN

A7 1/4" = 1'-0" 0 2' 4' 8'

KEYNOTES - I-202	
Note Number	Note Description
A08	5 TIER METAL PERSONAL LOCKERS
A10	24" X 24" DRAWER BASE LOCKER, TYP. ON 4" CONCRETE BASE. SLOPED TOP.
A32	SOLID SURFACE COUNTERTOP W/ INTEGRAL 4" BACKSPLASH AND 5" APRON
A33	REINFORCING IN WALL FOR FUTURE GRAB BARS/FOLDING SHOWER SEAT

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



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5031 NORTHEAST LAKEWOOD WAY
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REVISIONS:

#	Description	Date
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1 A501 11/21/2022



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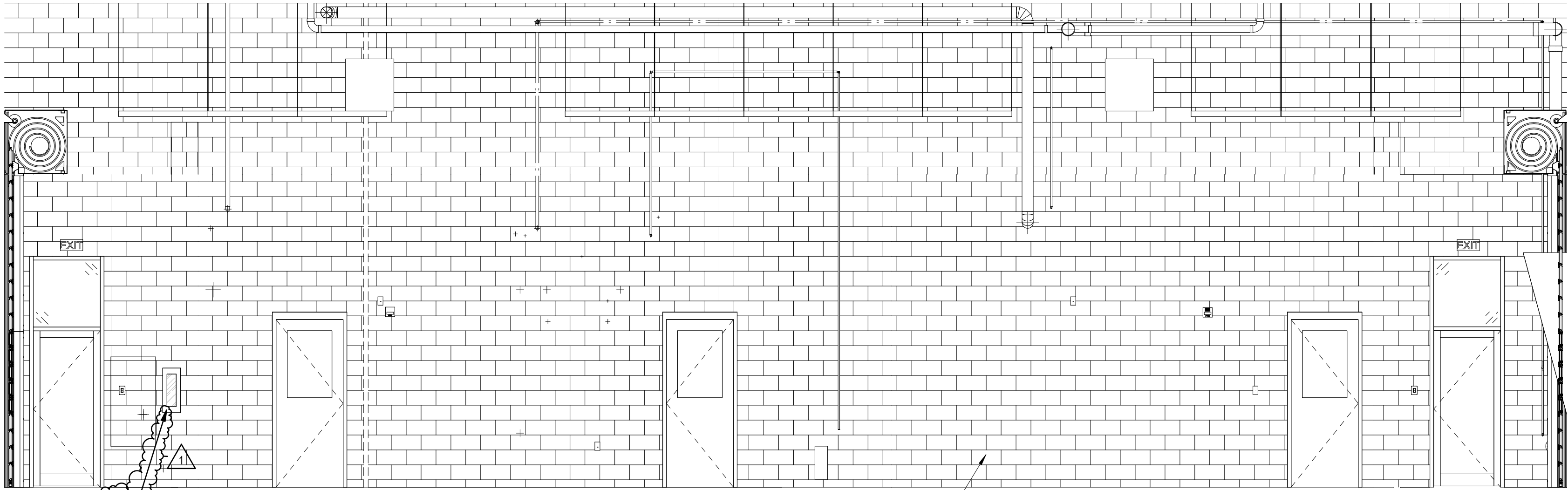
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INTERIOR
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ELEVATIONS

I-202

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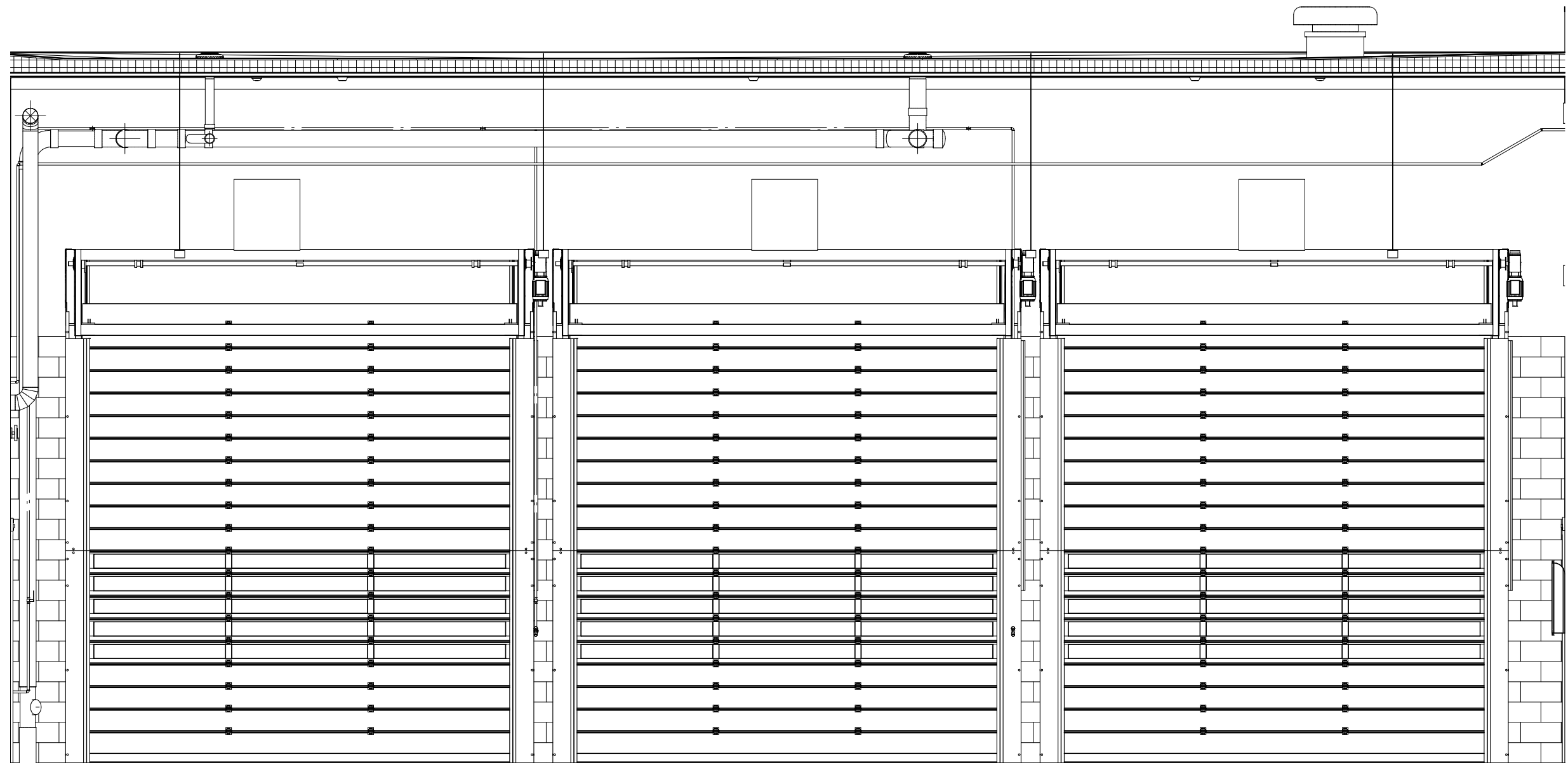


D2 APPARATUS BAY NORTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

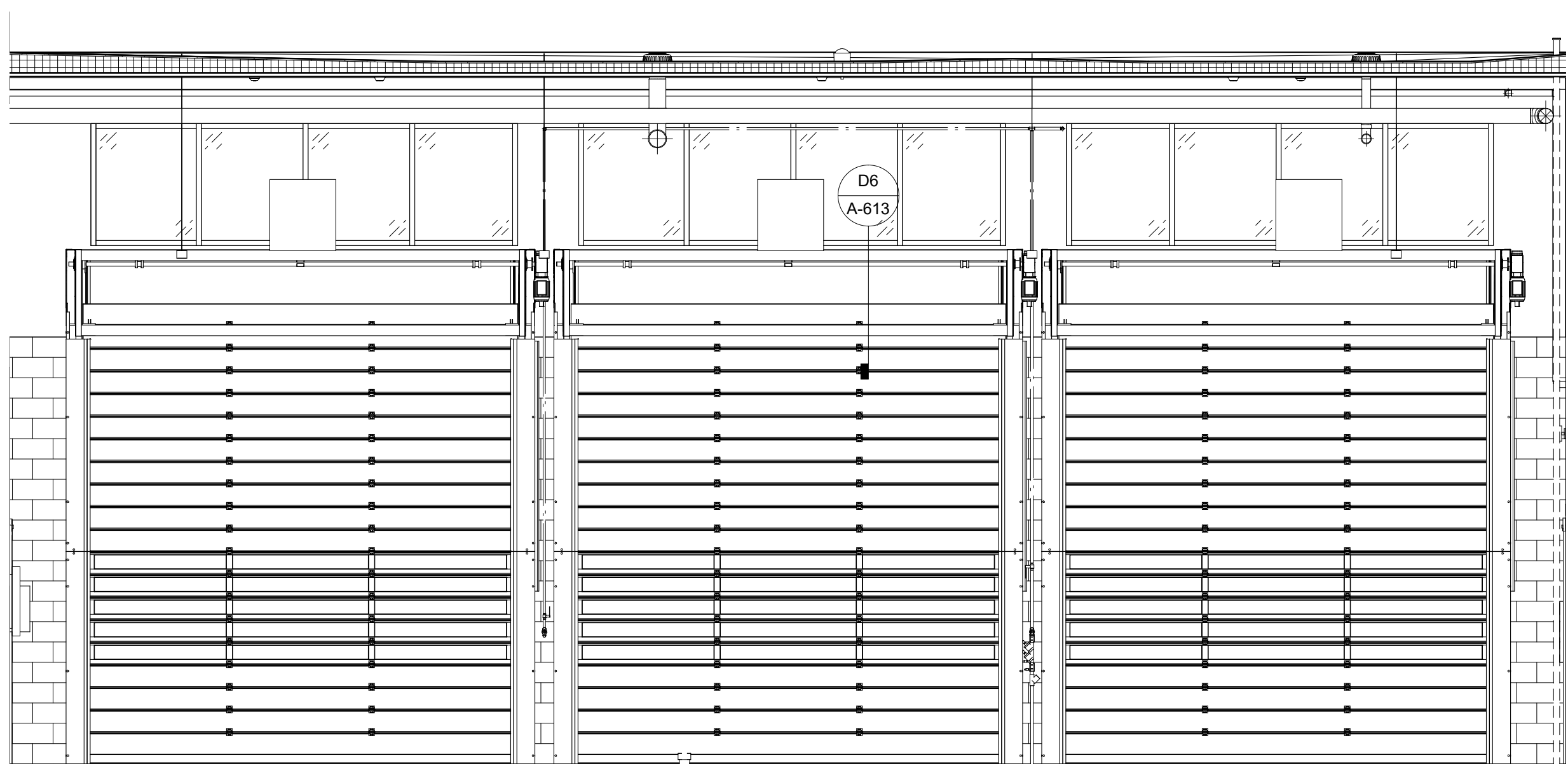
P-2 ACCENT COLOR



B1 APPARATUS BAY EAST ELEVATION

1/4" = 1'-0"

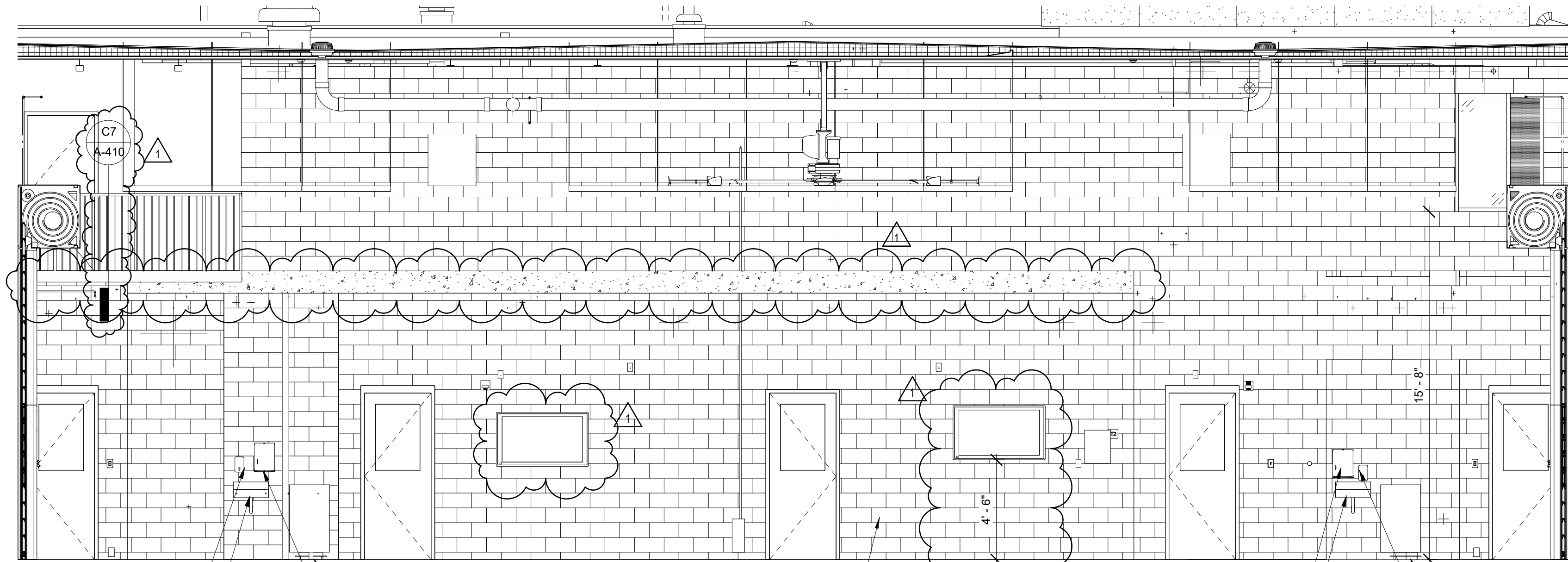
0 2' 4' 8'



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

SOAP DISPENSER SINK

BOOT WASH PAPER TOWEL DISPENSER

#	Description	Date
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DATE:	11.21.2022
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CHK'D BY:	PJM

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APPARATUS BAY ELEVATIONS

I-203

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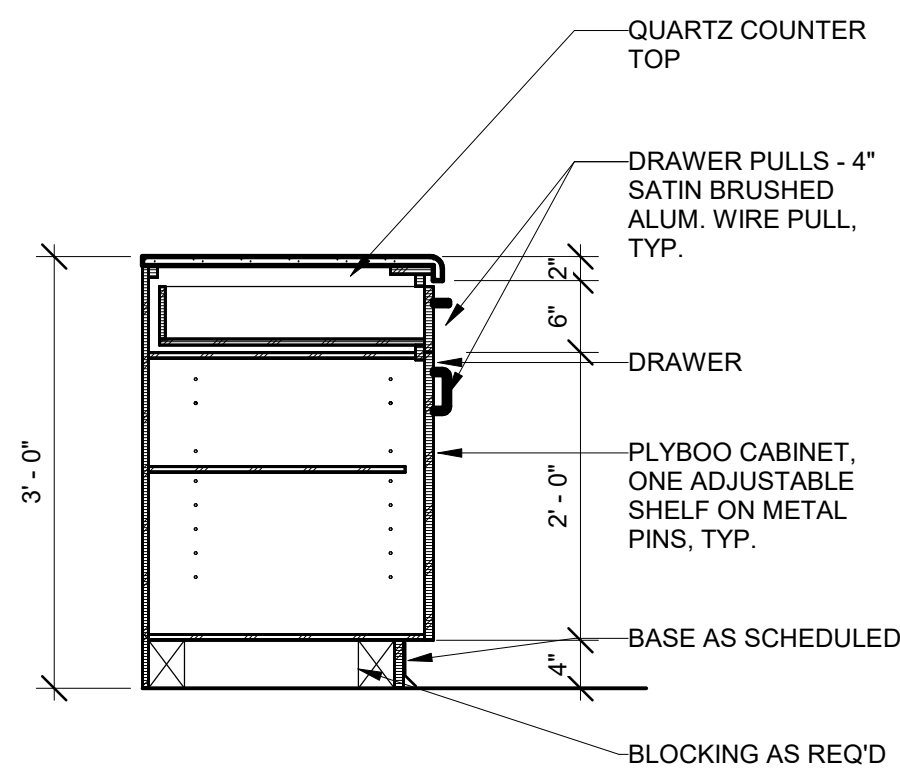
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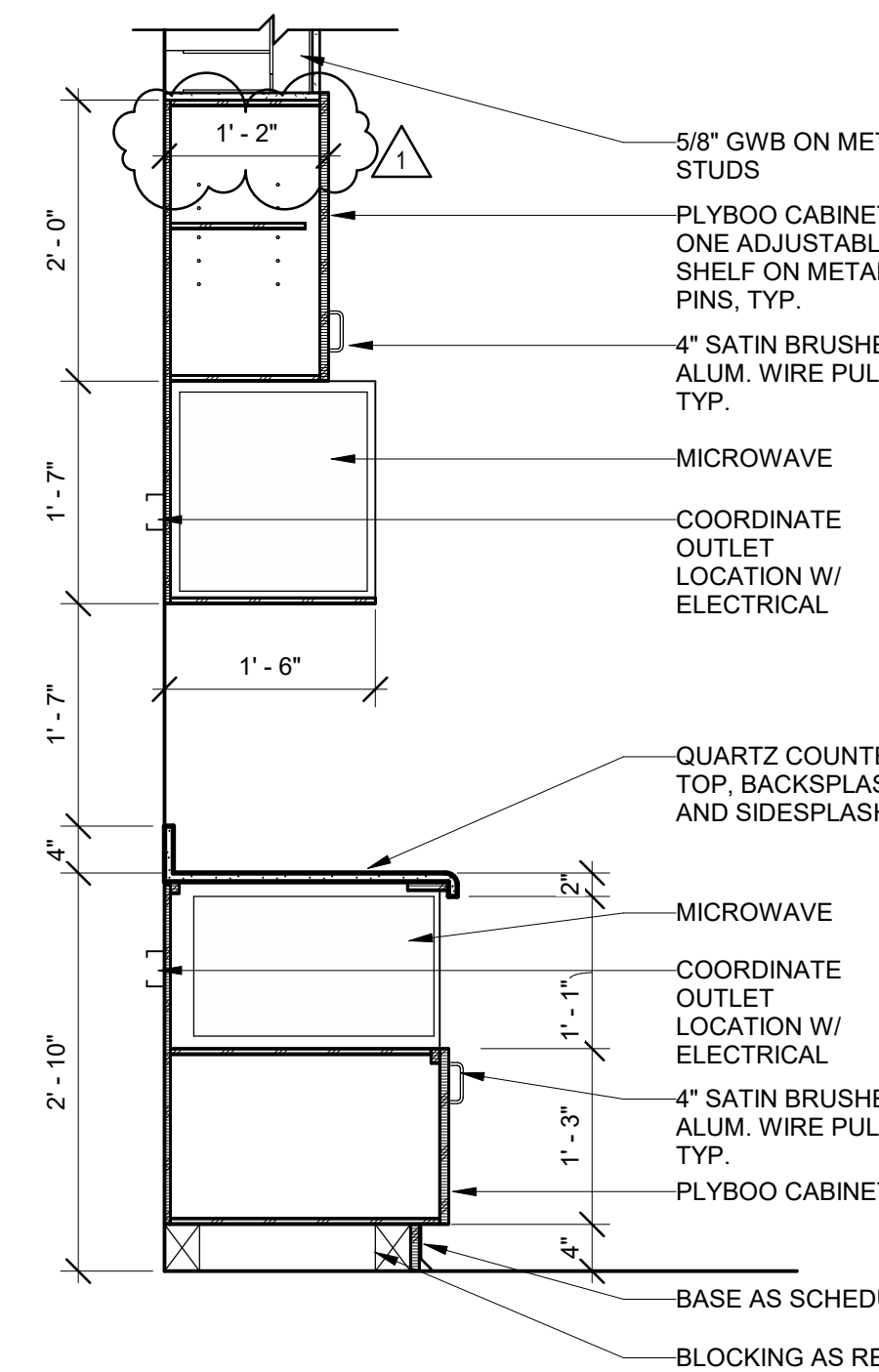
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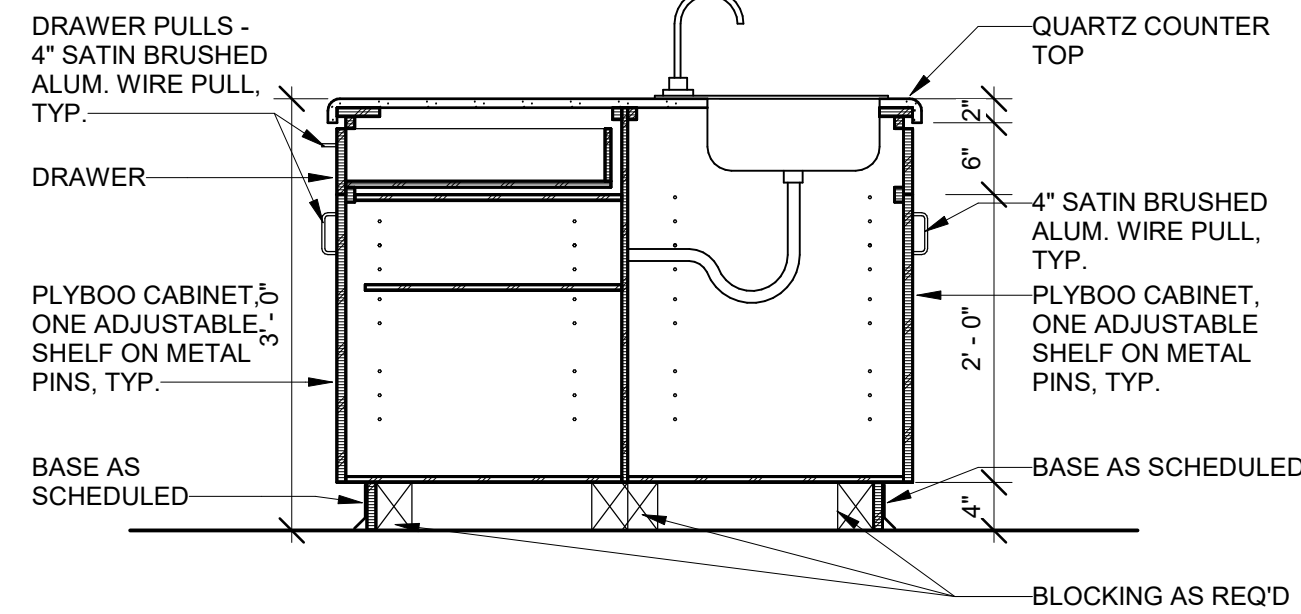
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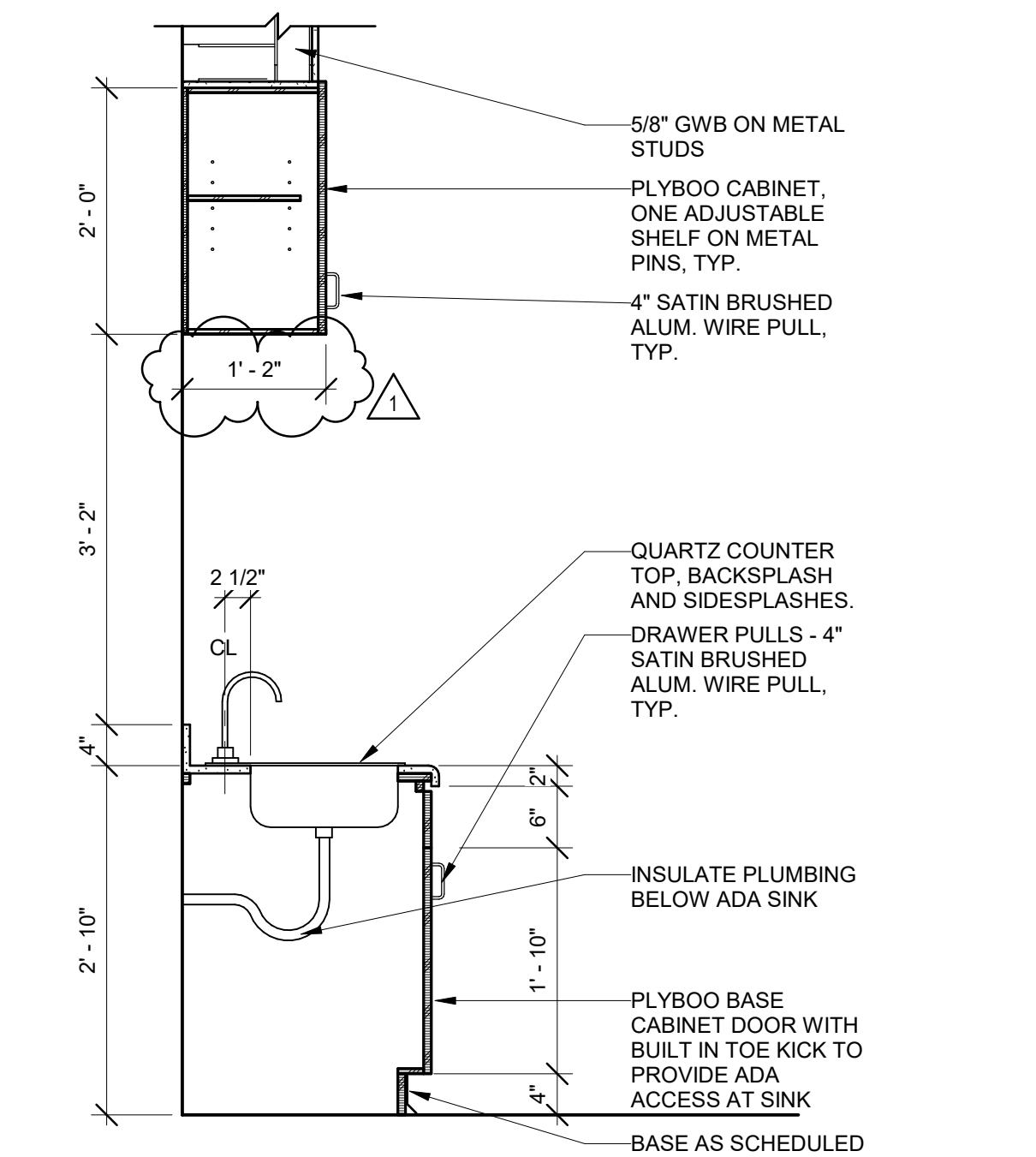
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@ ISLAND



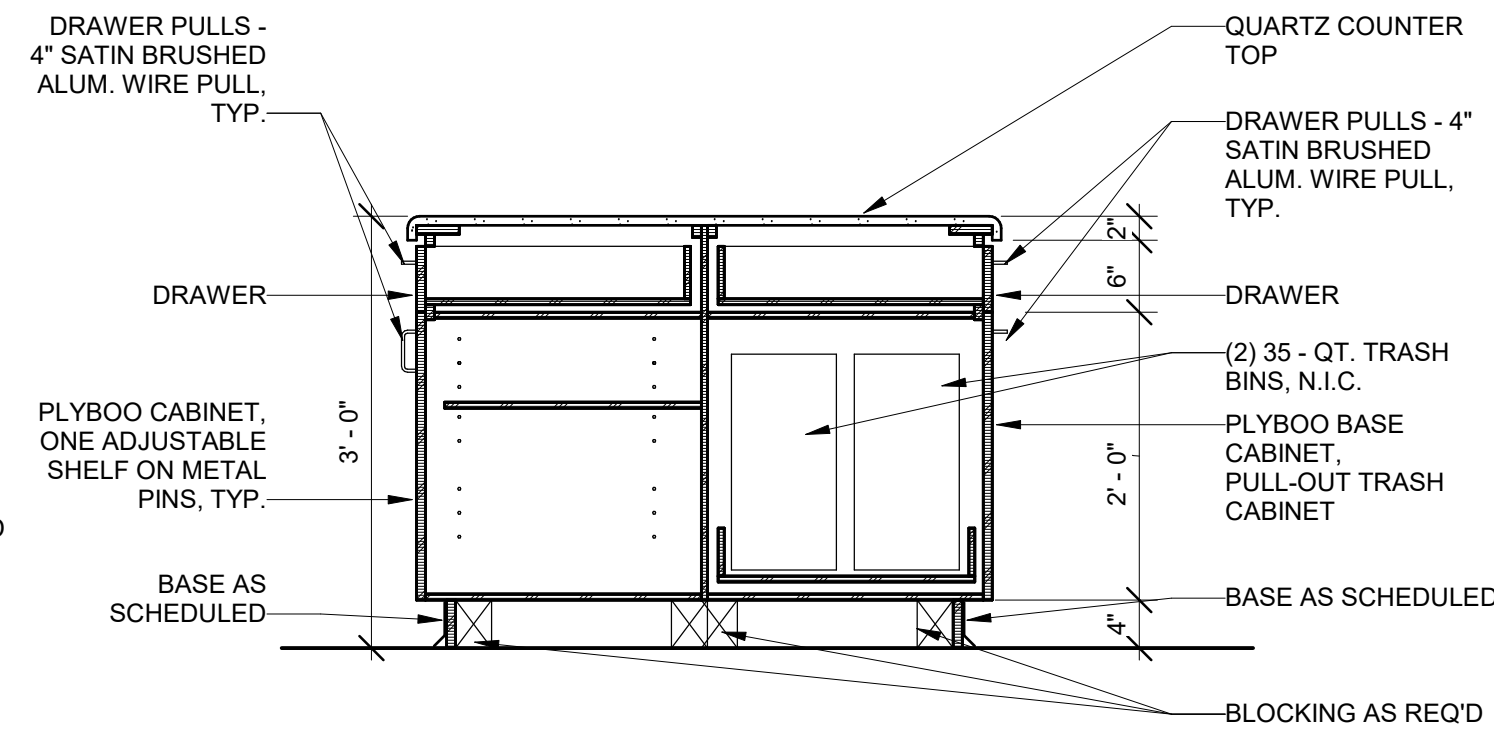
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@ MICROWAVE



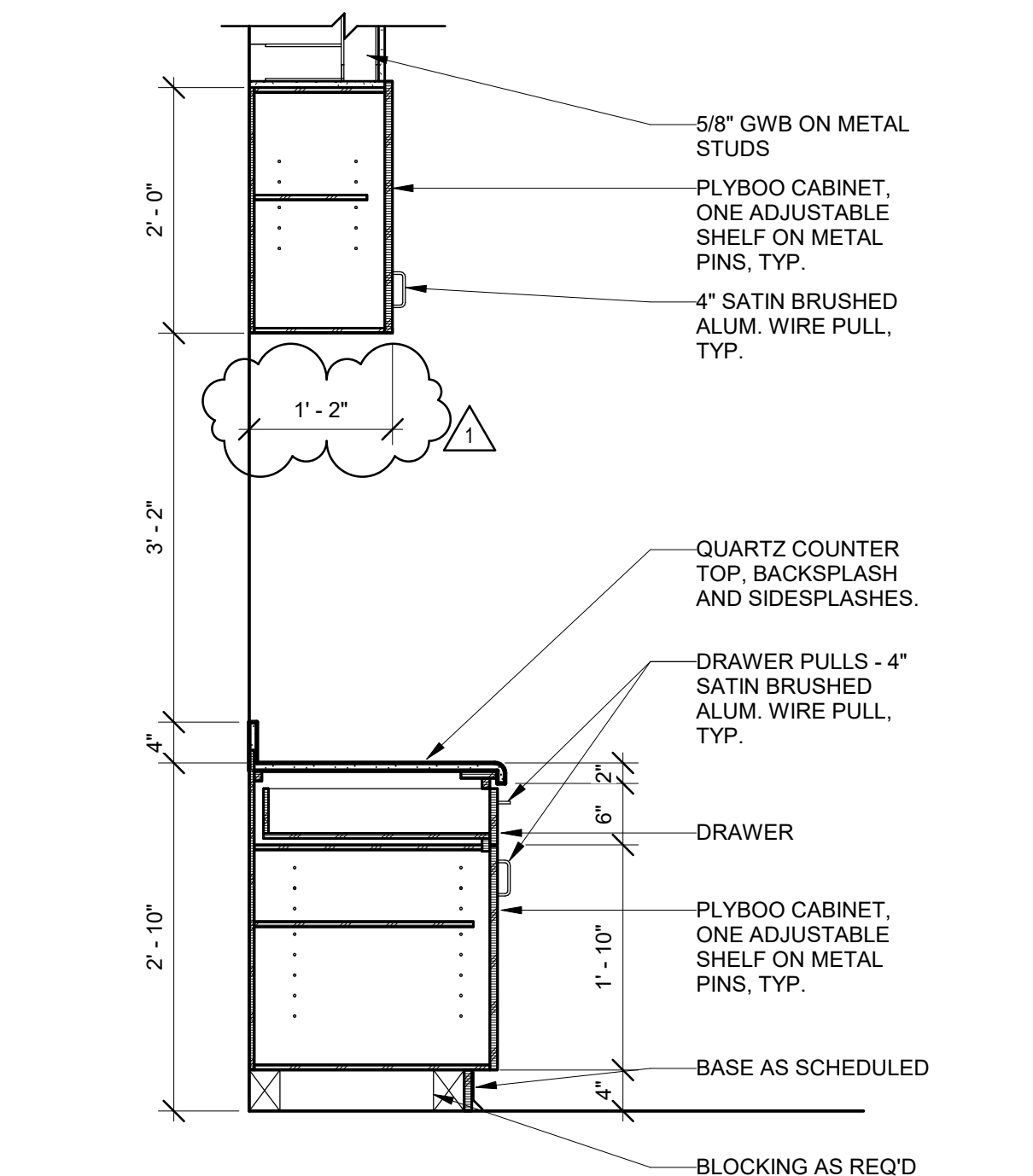
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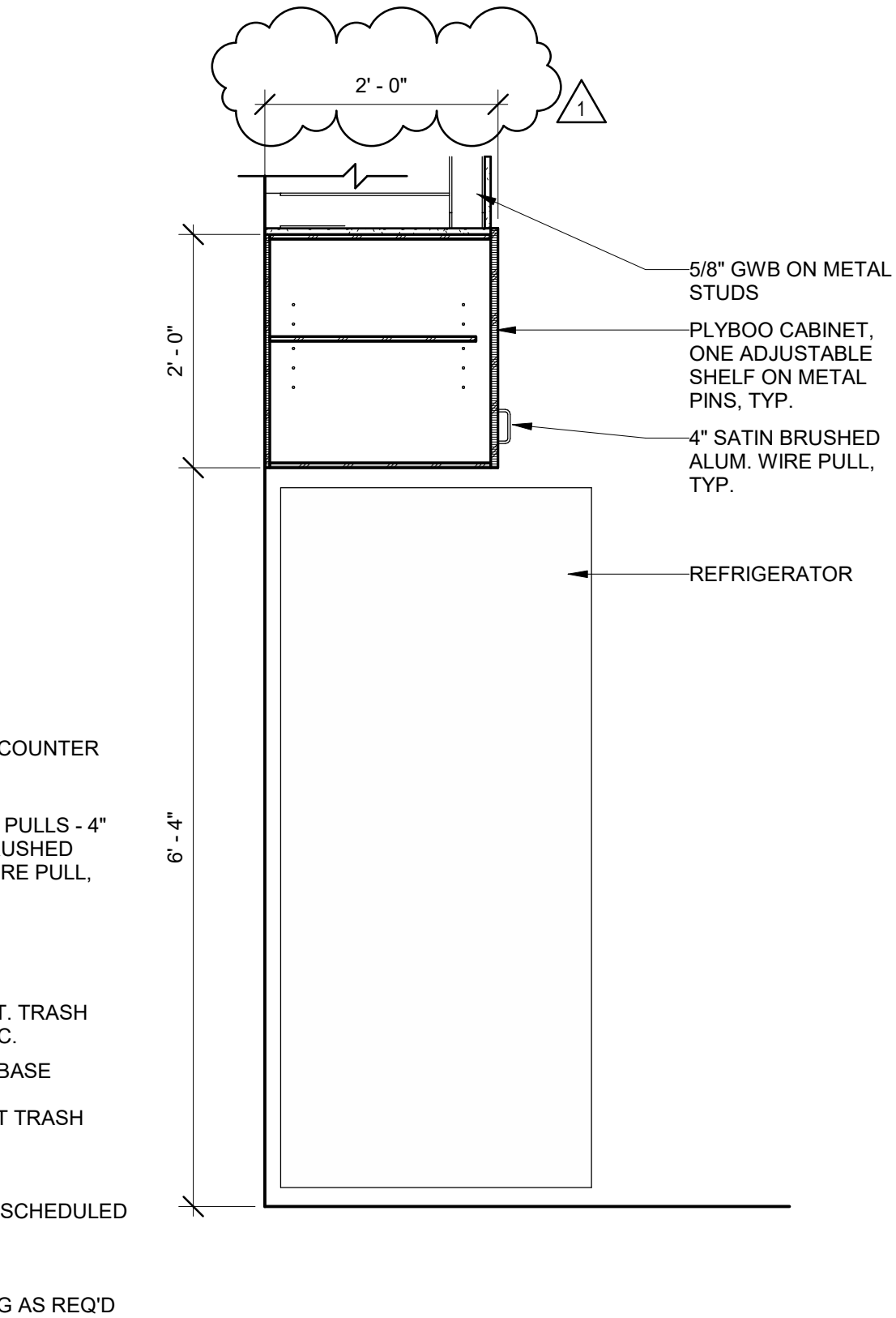
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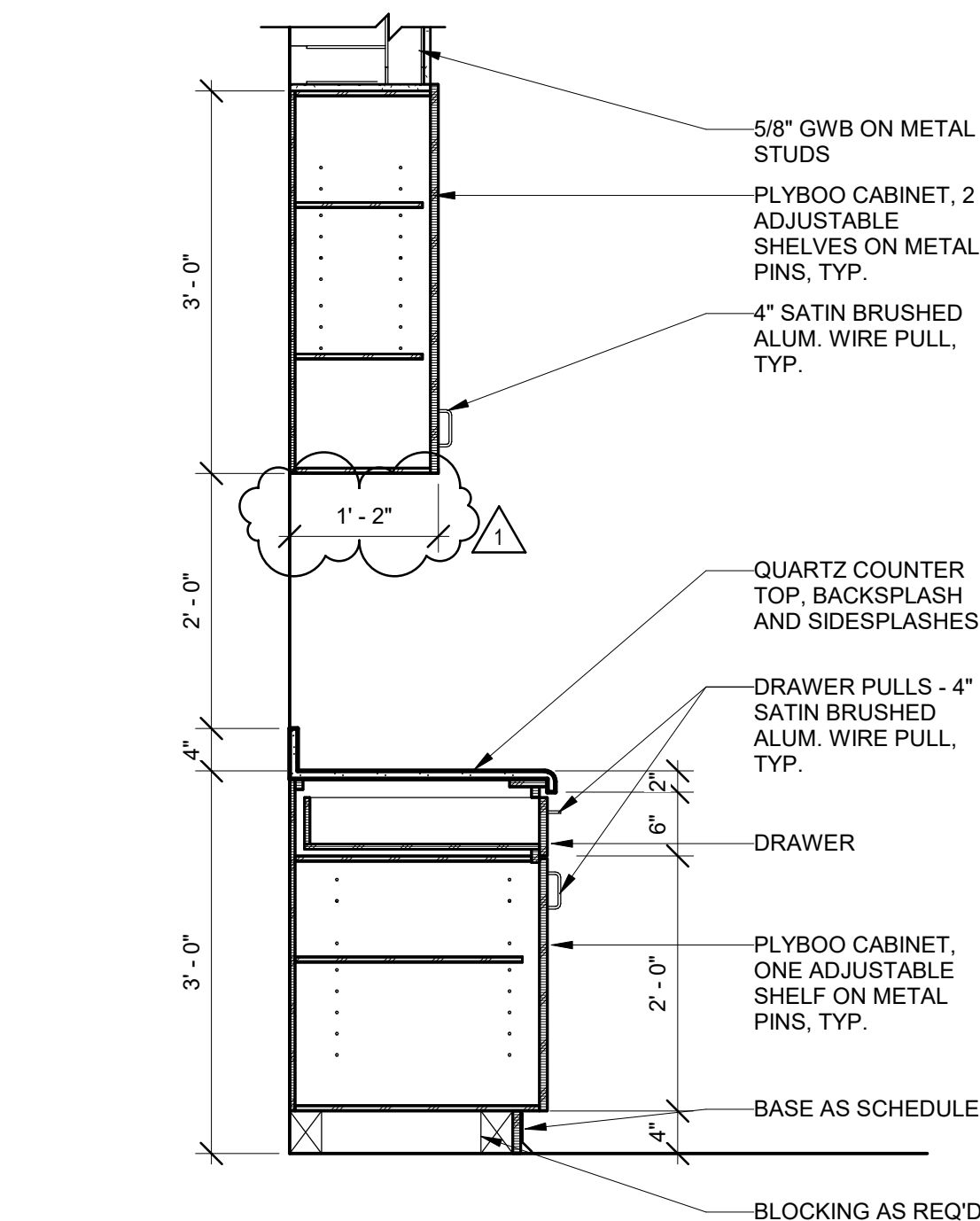
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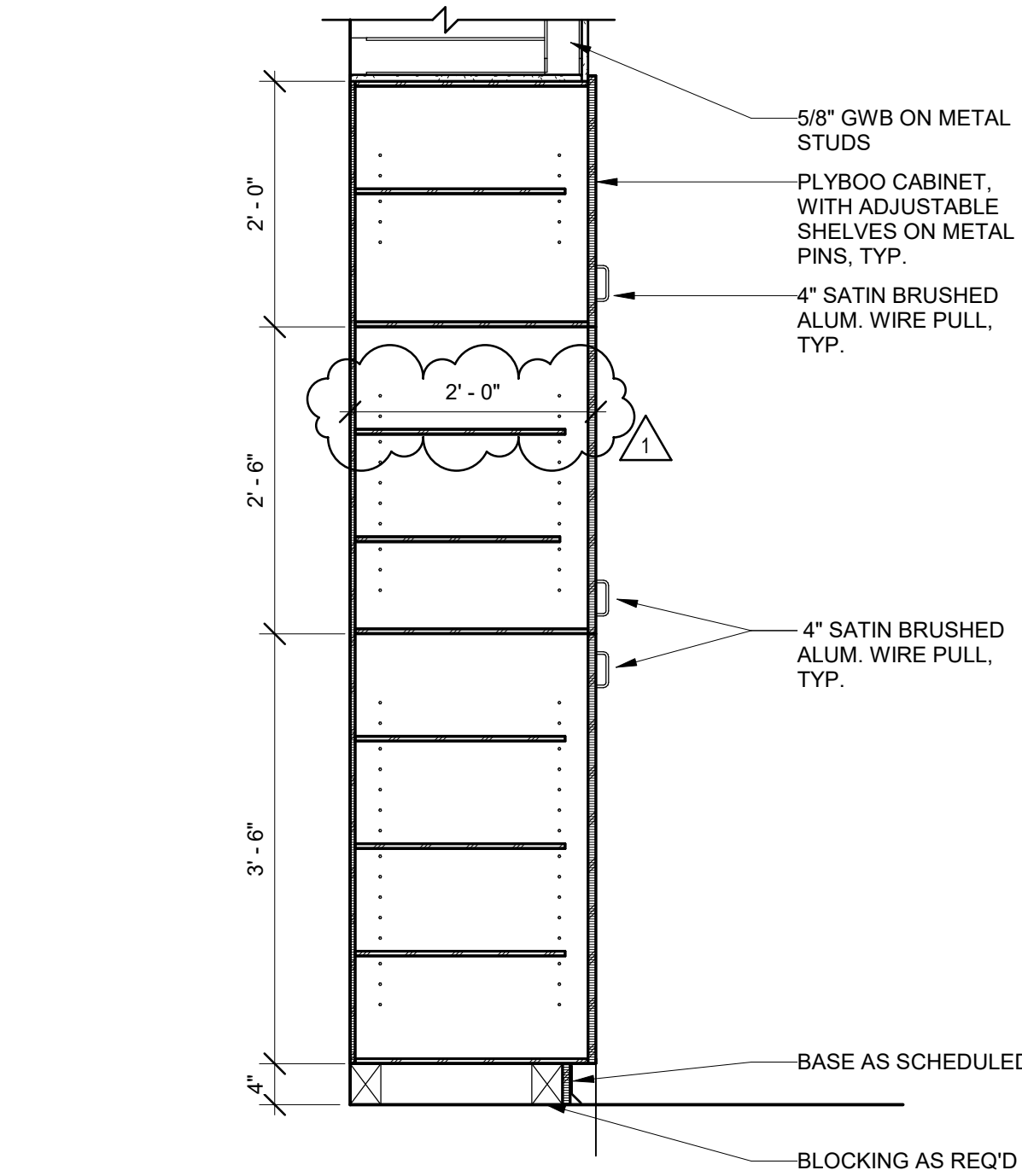
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@ KITCHEN ADA, TYP.



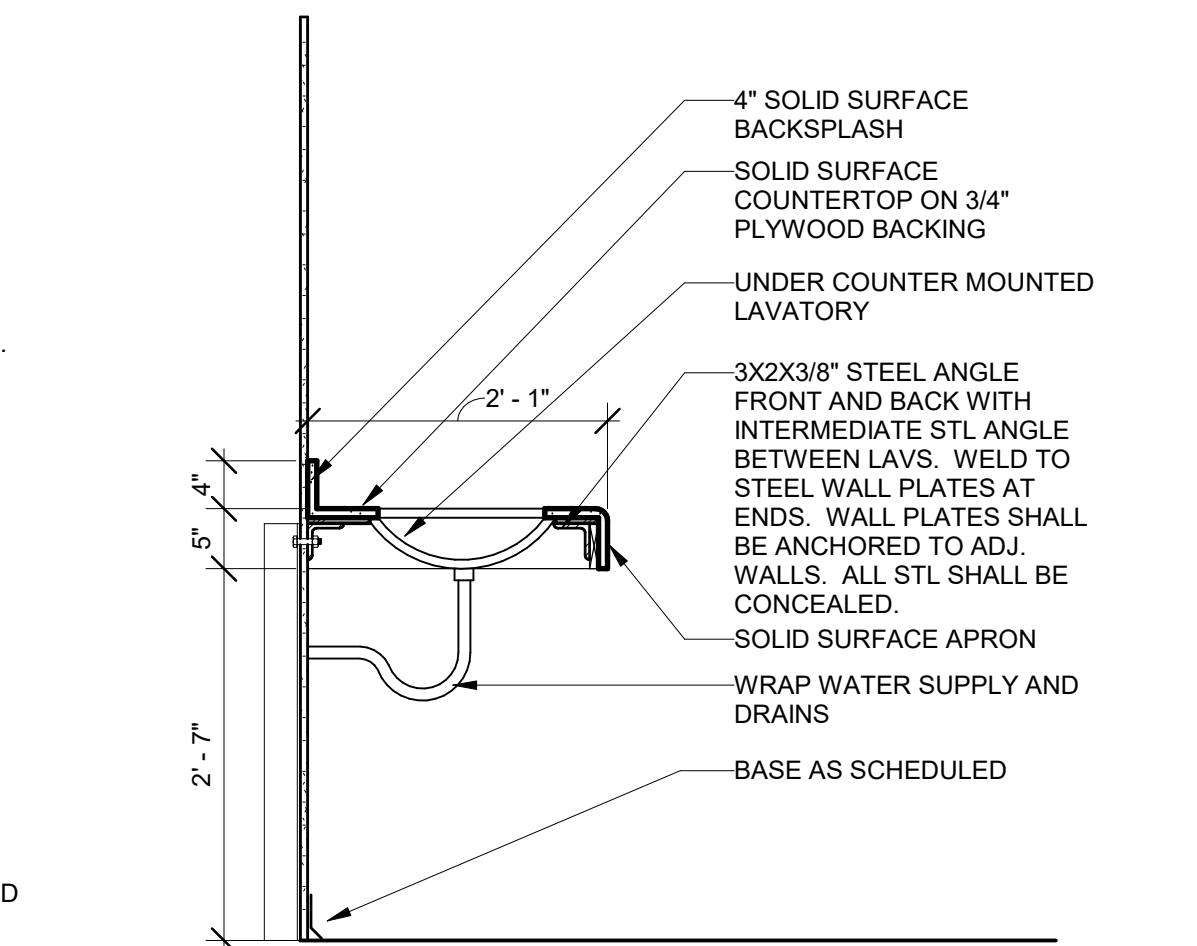
CASEWORK SECTION
@ REFRIGERATOR



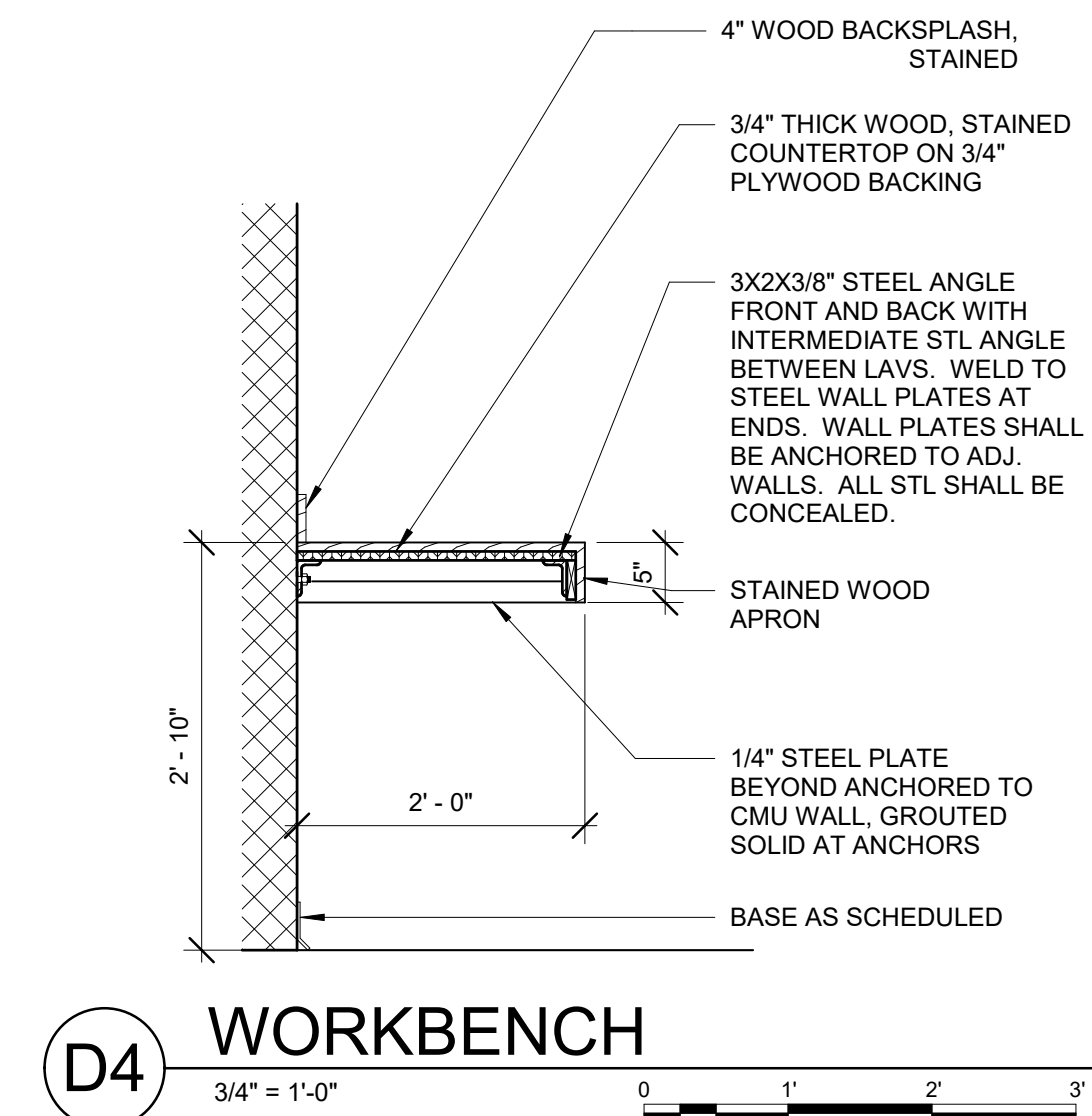
CASEWORK SECTION
@ KITCHEN, TYP.



CASEWORK SECTION
@ PANTRY

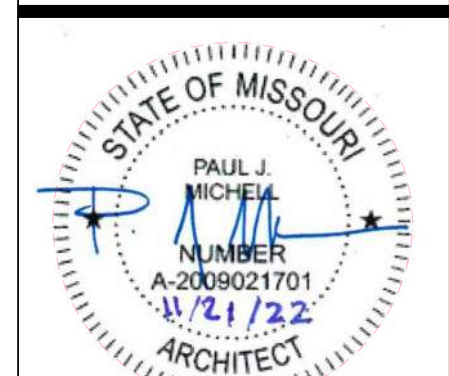


CASEWORK SECTION
@ TOILETS



WORKBENCH

#	Description	Date
1	ASB 01	11/21/2022



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

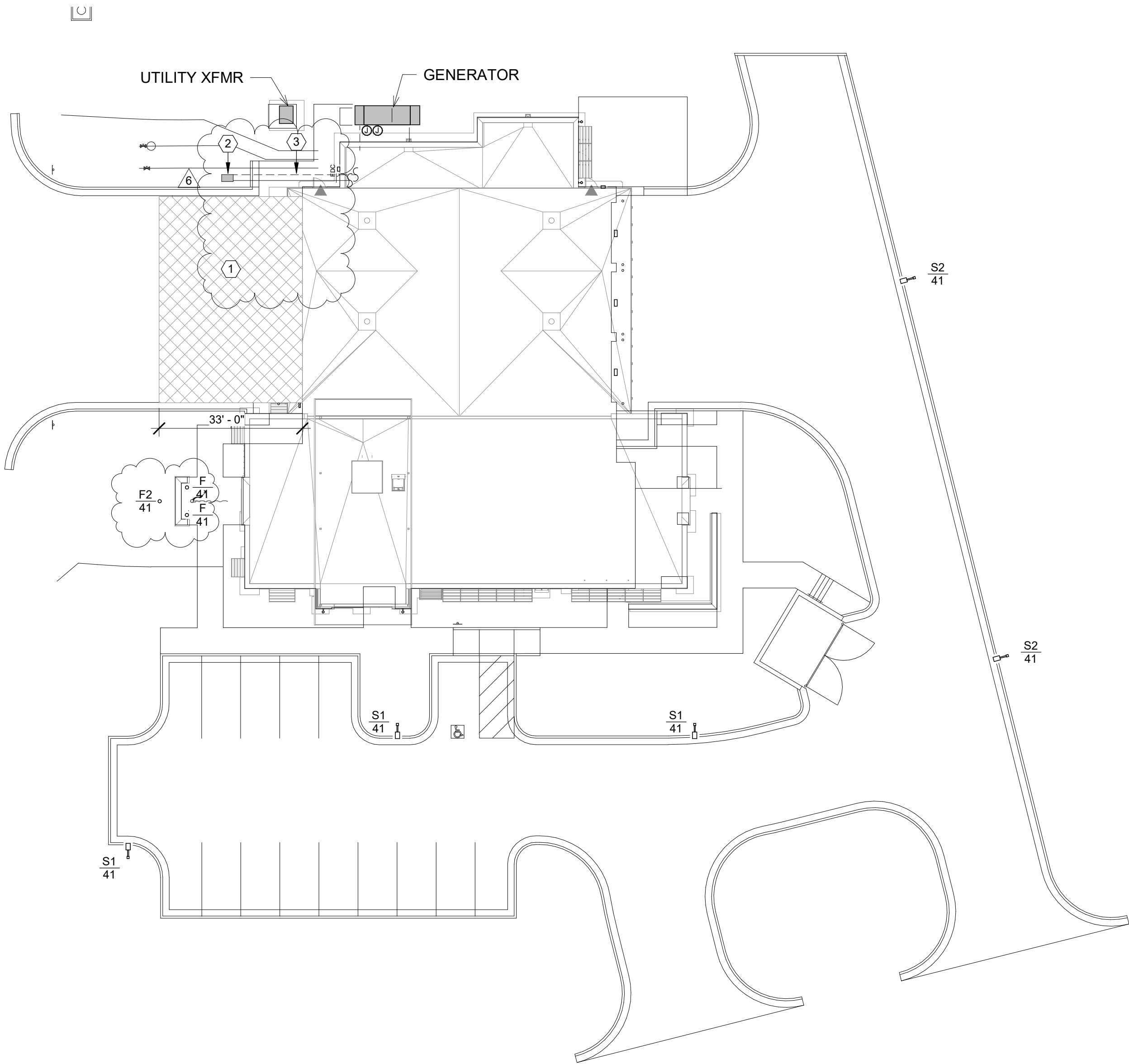
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DRAWN BY: CLW
CHK'D BY: BJD

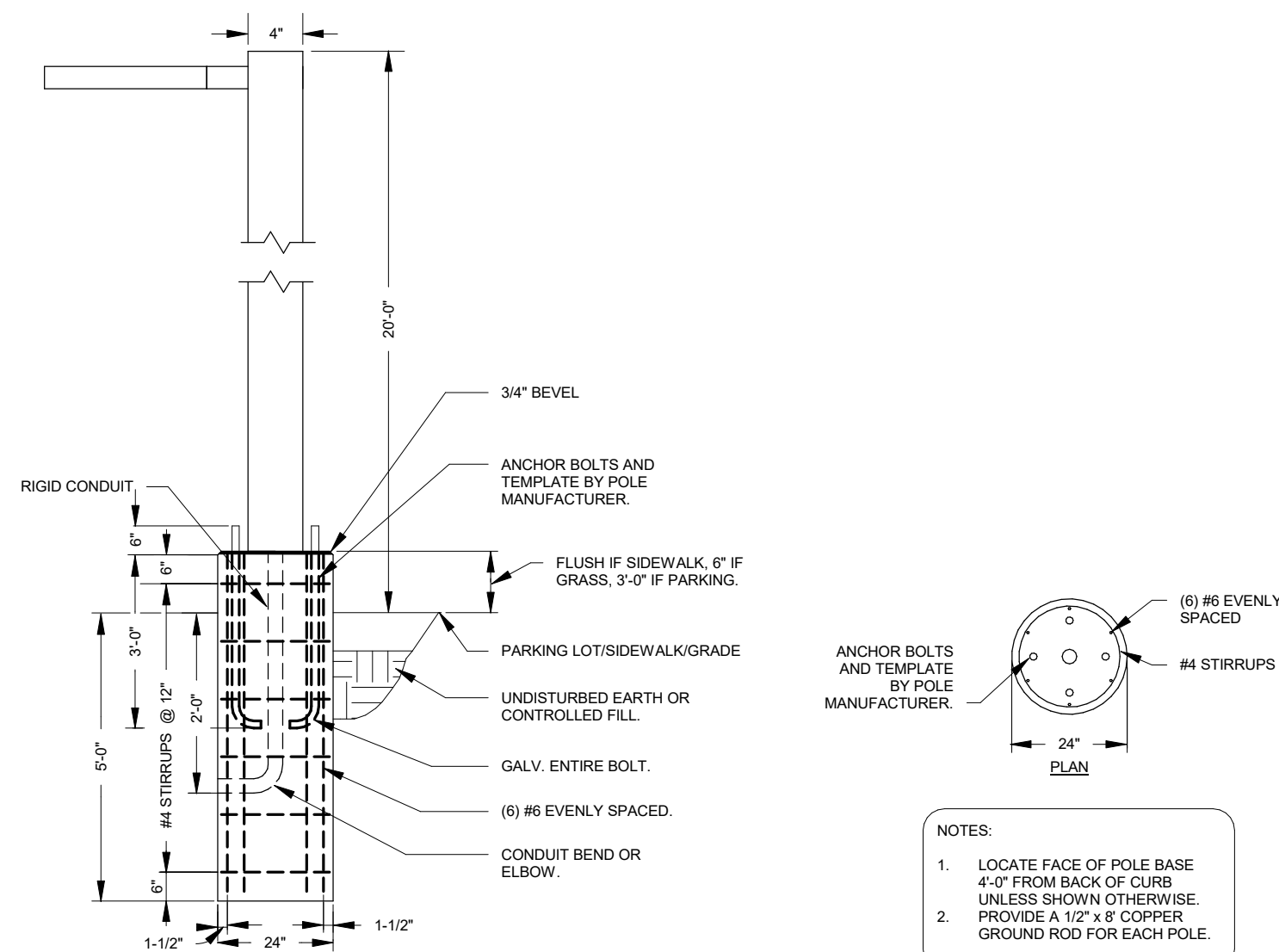
CASEWORK SECTIONS

I-501

FILE PATH: B:\380-1\18225R21001_LeesSummitFireStation_#4 and #5\LSMO_FIRE STATIONS_MEP_V19.rvt



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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FIRE STATION #4
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LEE'S SUMMIT, MISSOURI 64064

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#	Description	Date
6	A6: 06	02/22/2022



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MO# PE-2007023868

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MPE SITE PLAN

ME001

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DATE: 10.19.20

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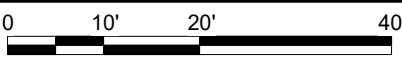
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SITE LIGHTING PHOTOMETRIC PLAN

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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	CRI							
F	VISTA LIGHTING	1188-B-NS-35-C-MV-CX-ND-B34	LED	3000	3000 K	85	--	IN-GRADE	120	37	41	CAST-IN PLACE IN-GRADE LIQUID TIGHT FLAGPOLE FIXTURE	2,4
S1	LITHONIA	DSX1 LED P4 30K T4M MVOLT	LED	13165	3000 K	80	--	POLE	120	125	139	POLE MOUNTED SITE LIGHTING FIXTURE	2,10
S2	LITHONIA	DSX1 LED P4 30K T4M MVOLT HS	LED	13165	3000 K	80	--	POLE	120	125	139	POLE MOUNTED SITE LIGHTING WITH BACKLIGHT SHIELD FIXTURE	2,10
WL	MICROLINEA	ML3WLA5Y-D-CO(628LPF)-K40-80-12 -R-FLA-F01MEF-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

NOTES:

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 FACIAL DOWN ARROWS TO MATCH WHAT IS SHOWN ON DRAWINGS.
6. MOUNT FIXTURE 6'-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 SIGHT TRIANGLE WHERE SHOWN. REFER TO ARCHITETUURAL PLAN FOR SOFFIT DETAILS.
10. POLE MOUNT FIXTURE AT 25'-0" ABOVE GRADE.

GENERAL NOTES:
A. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES.
B. PROVIDE ALL REQUIRED ACCESSORIES F



- 
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MPE ROOF PLAN

ME101

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E

D

C

B

A

HVAC MASTER SYMBOLS LEGEND		
STANDARD MOUNTING HEIGHTS	PIPE FITTINGS AND VALVES	DUCTWORK
CONTROLS (TOP OF DEVICE) 48" AFF	SHUT-OFF VALVE	EQUIPMENT WITH FLEXIBLE DUCT CONNECTION
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.	CHECK VALVE	SUPPLY AIR DUCT UP
ANNOTATIONS	SHUT-OFF VALVE	RETURN / EXHAUST AIR DUCT UP
INDICATES CONNECTION TO EXISTING SYSTEM	TRIPLE DUTY VALVE	SUPPLY AIR DUCT DOWN
INDICATES DEMO FROM EXISTING SYSTEM	SOLENOID VALVE	RETURN / EXHAUST AIR DUCT DOWN
PLAN NOTE REFERENCE	STRAINER	FLEXIBLE DUCT
DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER	STRAINER WITH BLOWOFF	ELBOW WITH TURNING VEINS
SECTION REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER	TWO-WAY CONTROL VALVE	MANUAL BALANCE DAMPER
MECHANICAL EQUIPMENT DESIGNATION	TWO-WAY CONTROL VALVE	MOTORIZED DAMPER
PLUMBING EQUIPMENT DESIGNATION	PRESSURE REDUCING VALVE	CONTROL DAMPER
ABBREVIATIONS	PRESSURE GAUGE	RELIEF DAMPER
A/C AIR CONDITIONING	THERMOMETER	BACKDRAFT DAMPER
AFC ABOVE FINISHED CEILING	BACKFLOW PREVENTER	FIRE DAMPER
AFF ABOVE FINISHED FLOOR	EXPANSION JOINT	SMOKE DAMPER
AFG ABOVE FINISHED GRADE	PIPE ANCHOR	FIRE / SMOKE DAMPER
AHJ AUTHORITY HAVING JURISDICTION	UNION	SPIN-IN BRANCH DUCT CONNECTOR - WITH DAMPER IF SHOWN
AHU AIR HANDLING UNIT	REDUCER	HIGH EFFICIENCY BRANCH DUCT CONNECTOR - WITH DAMPER IF SHOWN
AP ACCESS PANEL	CAP	DUCT MOUNTED GRILLE / WALL GRILLE
APD AIR PRESSURE DROP	ELBOW UP	SUPPLY AIR DIFFUSER
BCU BLOWER COIL UNIT	ELBOW DOWN	RETURN AIR DIFFUSER
BHP BRAKE HORSEPOWER	TEE UP	LINEAR SLOT DIFFUSER
BOD BOTTOM OF DUCT	TEE DOWN	DIFFUSER, GRILLE, OR REGISTER TYPE
BOP BOTTOM OF PIPE	SIAMESE CONNECTION	CFM
BOS BOTTOM OF STRUCTURE		CONNECTION SIZE
BTUH BRITISH THERMAL UNITS PER HOUR	PIPING	
CAV CONSTANT AIR VOLUME	CHILLED WATER SUPPLY	
CFH CUBIC FEET PER HOUR	CHILLED WATER RETURN	
CFM CUBIC FEET PER MINUTE	HOT-CHILLED WATER SUPPLY	
CH CHILLER	HOT-CHILLED WATER RETURN	
CO CARBON MONOXIDE	HEATING HOT WATER SUPPLY	
CO2 CARBON DIOXIDE	HEATING HOT WATER RETURN	
CT COOLING TOWER	HEATING HOT WATER SUPPLY	
CU CONDENSING UNIT	HEATING HOT WATER RETURN	
CUH CABINET UNIT HEATER	HEATING HOT WATER SUPPLY	
DDC DIRECT DIGITAL CONTROL	HEATING HOT WATER RETURN	
DX DIRECT EXPANSION	CONDENSATE DRAINING PIPING	
EA EXHAUST AIR	REFRIGERANT LIQUID	
EAT ENTERING AIR TEMPERATURE	REFRIGERANT SUCTION	
EDB ENTERING DRY BULB	INTAKE PIPING	
EF EXHAUST FAN	EXHAUST PIPING	
EJ EXPANSION JOINT	TEMPERATURE CONTROLS	
ESP EXTERNAL STATIC PRESSURE	THERMOSTAT / TEMPERATURE SENSOR SERVING RTU 1	
ETR EXISTING TO REMAIN	HUMIDITY SENSOR / HUMIDISTAT	
EWB ENTERING WET BULB	REMOTE TEMPERATURE SENSOR	
FCU FAN COIL UNIT	REMOTE HUMIDITY SENSOR	
FTU FAN TERMINAL UNIT	CARBON DIOXIDE SENSOR	
GC GENERAL CONTRACTOR	OCCUPANCY SENSOR	
HD HEAD	CARBON MONOXIDE SENSOR	
HP HEAT PUMP	STATIC PRESSURE SENSOR	
HSTAT HUMIDISTAT	DIFFERENTIAL PRESSURE TRANSMITTER	
HTG HEATING	DIFFERENTIAL PRESSURE TRANSMITTER	
HTR HEATER	LINETYPE LEGEND	
IN. WC INCHES OF WATER COLUMN	EXISTING TO REMAIN	
LAT LEAVING AIR TEMPERATURE	NEW WORK	
LDB LEAVING DRY BULB	DEMOLISH	
LWB LEAVING WET BULB		
LWT LEAVING WATER TEMPERATURE		
MAU MAKE-UP AIR UNIT		
MBH 1000 BTU PER HOUR		
MC MECHANICAL CONTRACTOR		
NC NOISE CRITERIA		
N/O, N/C NORMALLY OPEN, NORMALLY CLOSED		
OA OUTSIDE AIR		
PD PRESSURE DROP (FEET OF WATER)		
RA RETURN AIR		
RF RETURN FAN		
RH RELATIVE HUMIDITY		
RTU ROOFTOP UNIT		
SA SUPPLY AIR		
SF SUPPLY FAN		
SP STATIC PRESSURE		
STC SOUND TRANSMISSION CLASS		
TSP TOTAL STATIC PRESSURE		
TSTAT THERMOSTAT		
TU TERMINAL UNIT		
UH UNIT HEATER		
UL UNDEWRITERS LABORATORIES, INC.		
UNO UNLESS NOTED OTHERWISE		
VAV VARIABLE AIR VOLUME		
VD VOLUME DAMPER		
VFD VARIABLE FREQUENCY DRIVE		
VRF VARIABLE REFRIGERANT FLOW		
WB WET BULB		
WC WATER COLUMN		
WT WEIGHT		

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

HVAC GENERAL NOTES

- A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND PER APPLICABLE CODES 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 NOT 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. BRANCH 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. PROVIDE CONCEALED DAMPER OPERATORS WHERE LOCATED ABOVE HARD CEILINGS.
- I. ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION.
- J. PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO BALANCING DAMPERS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. COORDINATE WITH THE ARCHITECTURAL TRADES.
- K. COORDINATE THE INSTALLATION OF PIPING AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES.
- L. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW EQUIPMENT.
- M. THE CONTRACTOR SHALL ARRANGE BRANCH PIPING TO VRF UNIT COILS SO THAT IT DOES NOT INTERFERE WITH ACCESS TO THE UNIT OR CONTROLS.
- N. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR SUPPORTS, ANCHORS, AND GUIDES. SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- O. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- P. ALL REFRIGERANT PIPING BETWEEN SPLIT SYSTEMS SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING SHALL BE ROUTED AT RIGHT ANGLES 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.
- Q. ALL TEMPERATURE CONTROLS DEVICES AND WIRING REQUIRED FOR THE INSTALLATION OF THE LOW VOLTAGE PORTION 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 REQUIRED FOR THE TEMPERATURE CONTROL SYSTEM UNDER THE SUPERVISION OF THE TEMPERATURE CONTROL CONTRACTOR.



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CHK'D BY: NB

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**HVAC SYMBOLS
LEGEND**

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- 1 PROVIDE ZINC, 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 E 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 OF KITCHETTE.
- 9 MOUNT DIFFUSER AT 30" FROM HORIZONTAL.
- 10 AIR TRANSFER FROM CONFORMANCE-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 MULTI-GAS 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 OF THE TYPICAL OF GUARDIAN MODEL #G300B. FURNISH WITH 3-PRONG APPLIANCE SHUTOFF, CONNECTION TO GAS SOLENOID VALVE AND WIRELESS RECEIVER FOR RANGE SHUTOFF. HAVE INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE WITH REMOTE MANUAL PULL STATION AND REMOTE ALARM/STROBE ASSEMBLY. PROVIDE WITH PULL STATION FOR REMOTE ACTIVATION TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
- 15 PROVIDE CYCLONE, OR EQUAL, CWYSO 10X11X10 SHROUD AROUND DRYER DUCT PENETRATION.



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M101

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



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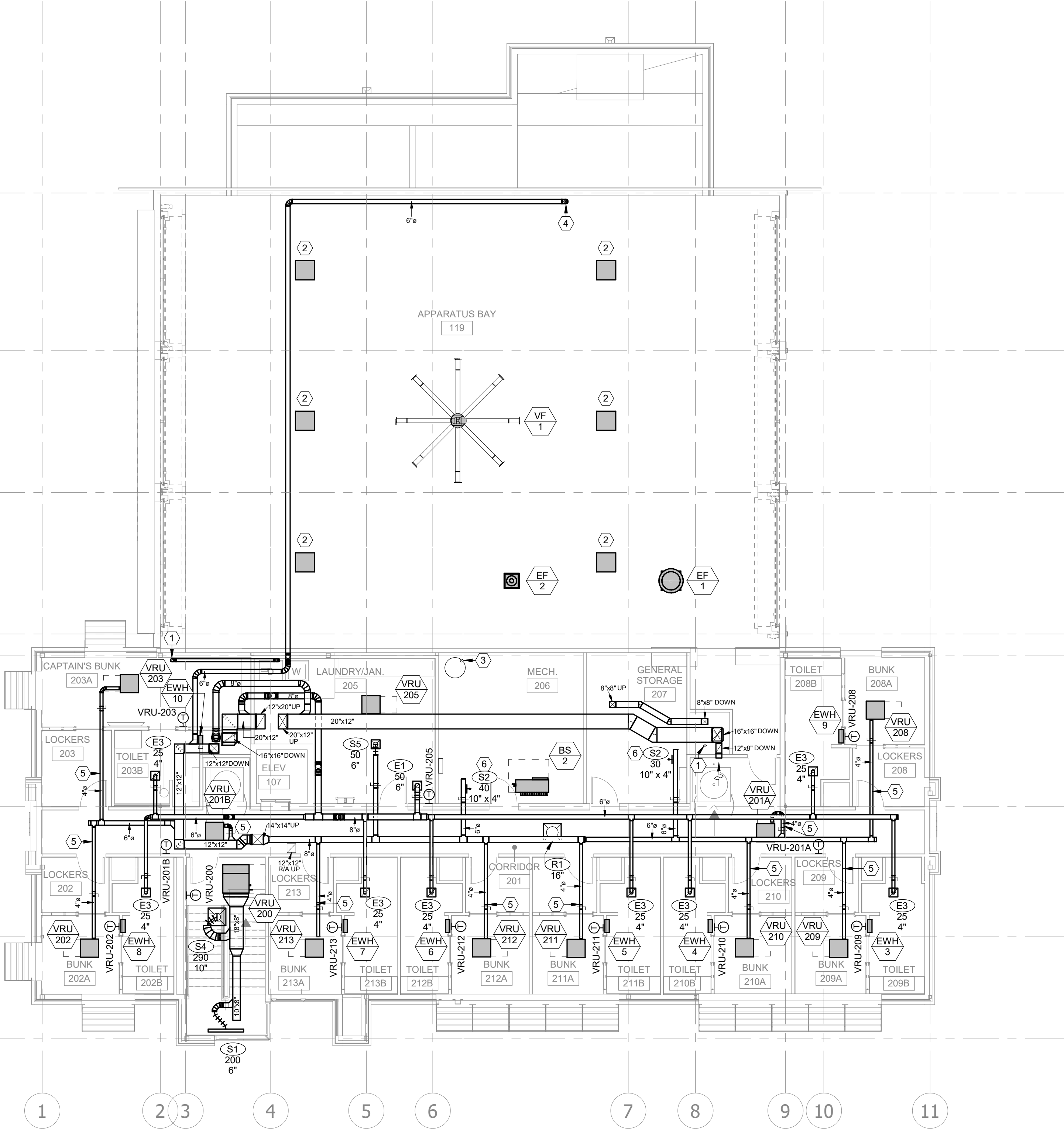
PROJECT NO: 18225R21001
DATE: 10.19.2022
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CHK'D BY: NB

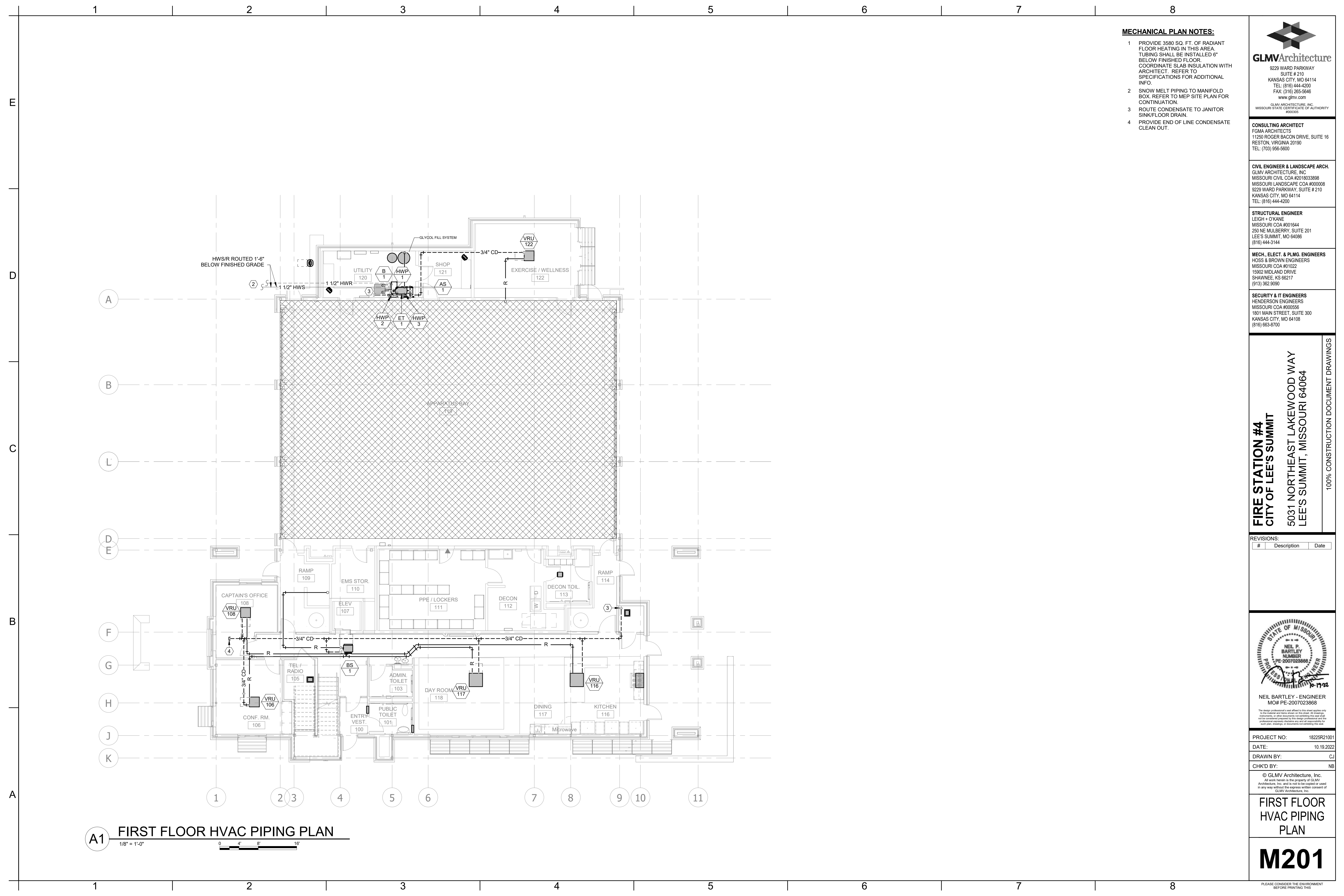
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SECOND FLOOR
HVAC PLAN

M102

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- MECHANICAL PLAN NOTES:**
- 1 PROVIDE 3580 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.
 - 2 SNOW MELT PIPING TO MANIFOLD BOX. REFER TO MEP SITE PLAN FOR CONTINUATION.
 - 3 ROUTE CONDENSATE TO JANITOR SINK/FLOOR DRAIN.
 - 4 PROVIDE END OF LINE CONDENSATE CLEAN OUT.

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**FIRST FLOOR
HVAC PIPING
PLAN**

M201

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MECHANICAL PLAN NOTES:

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



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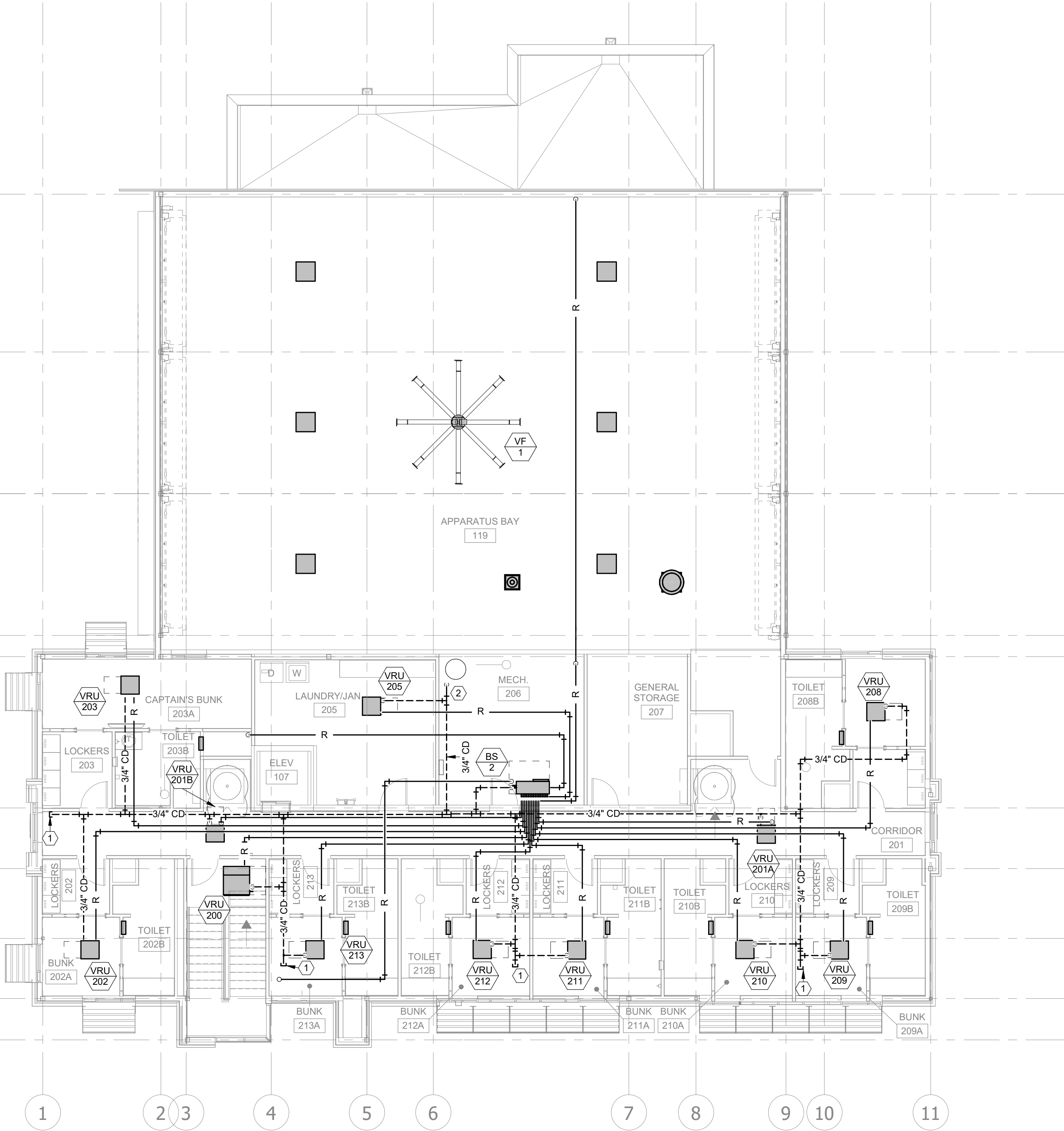
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SECOND FLOOR
HVAC PIPING
PLAN

M202

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A1 SECOND FLOOR HVAC PIPING PLAN

1/8" = 1'-0"



FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5/LSMO_FIRE STATIONS MEP_V19.rvt

E

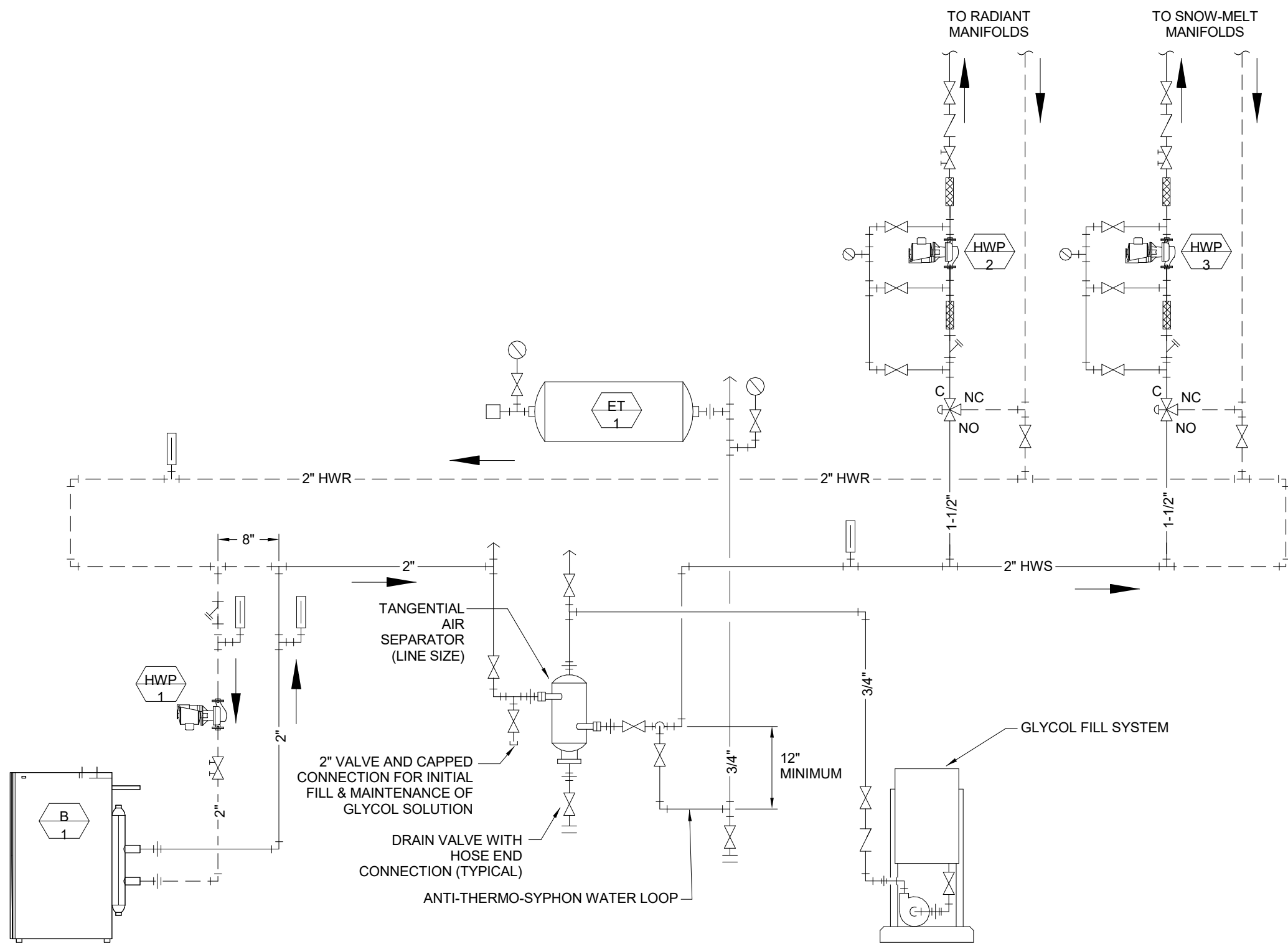
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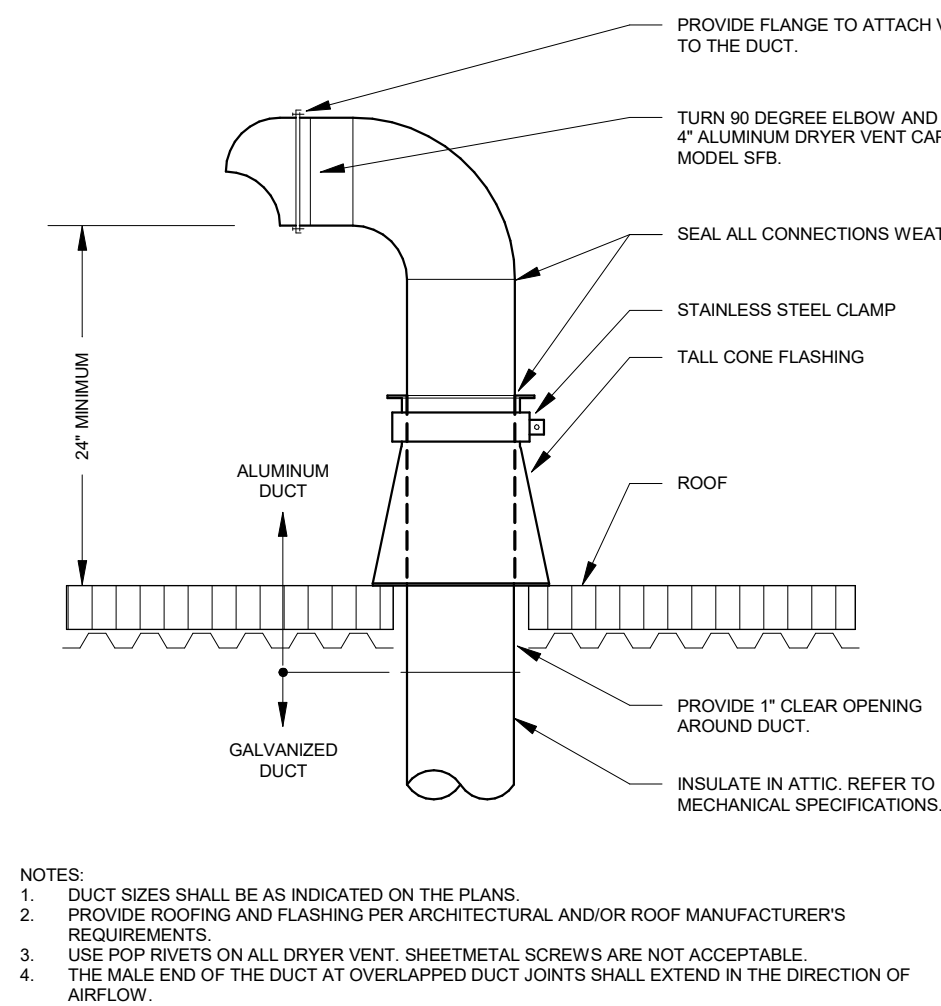
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A

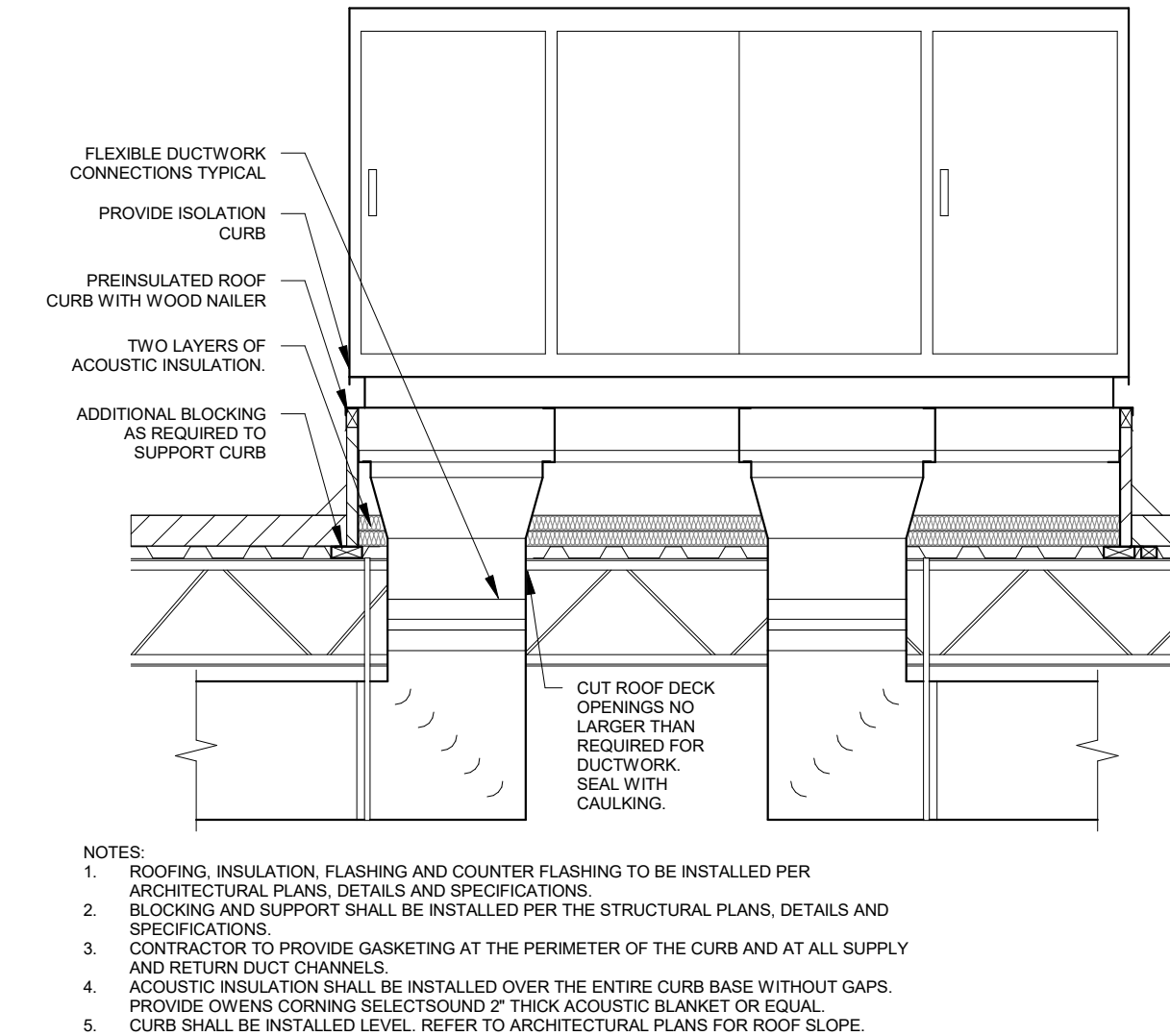
A2 Radiant Piping Schematic
NOT TO SCALE



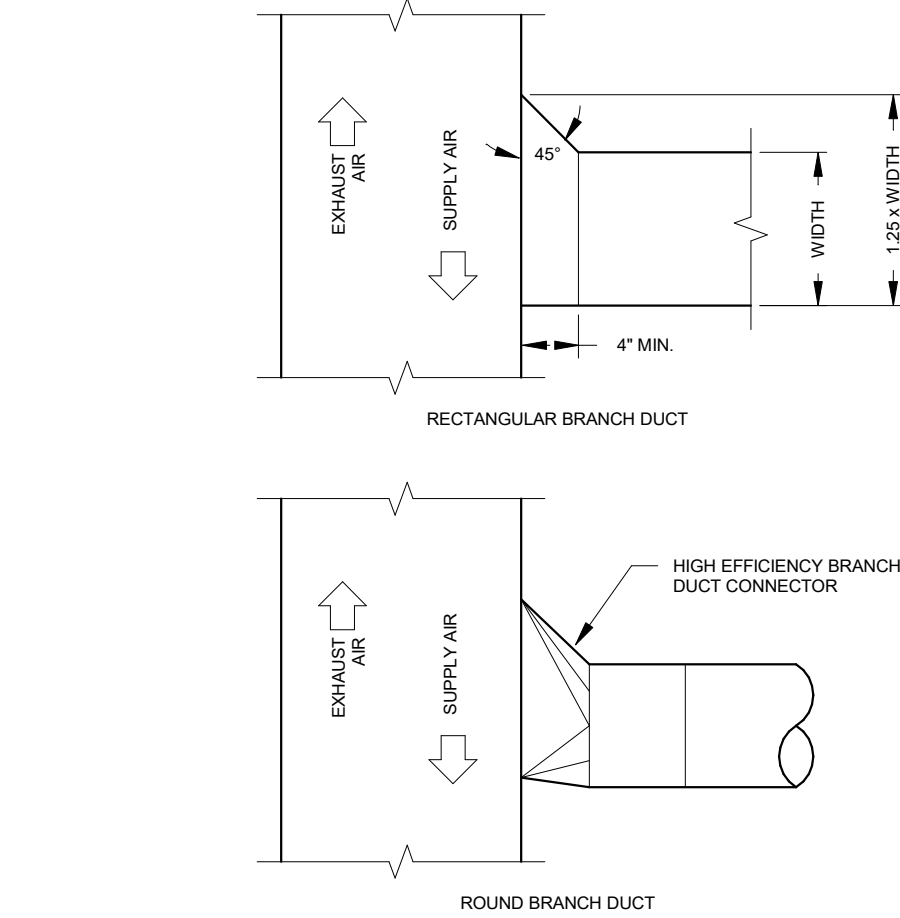
A5 VENT ROOF CLOTHES DRYER
NOT TO SCALE



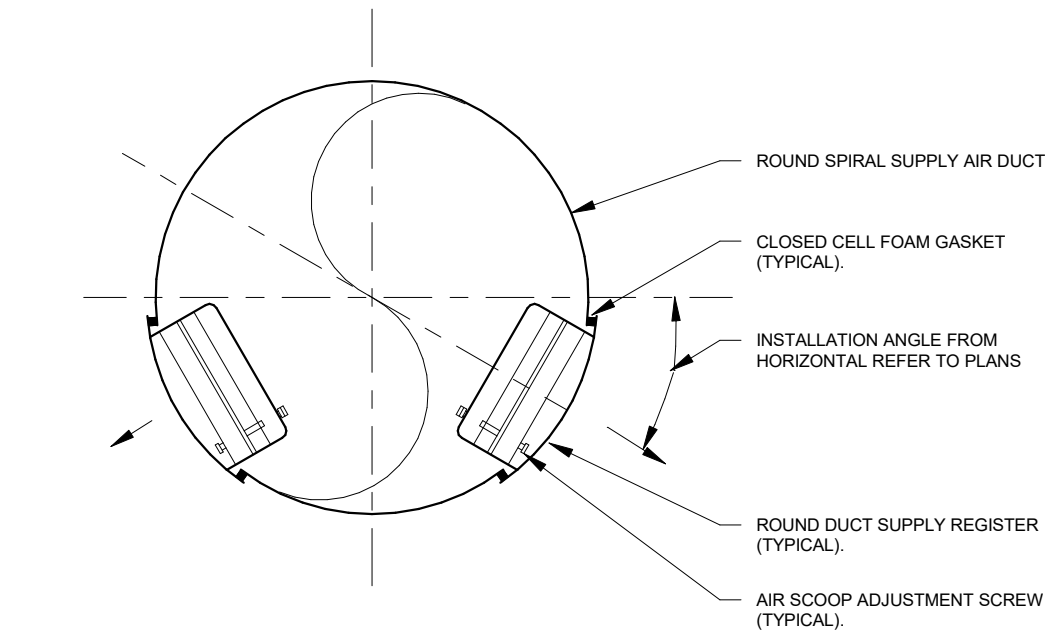
D5 FAN EXHAUST ROOF
NOT TO SCALE



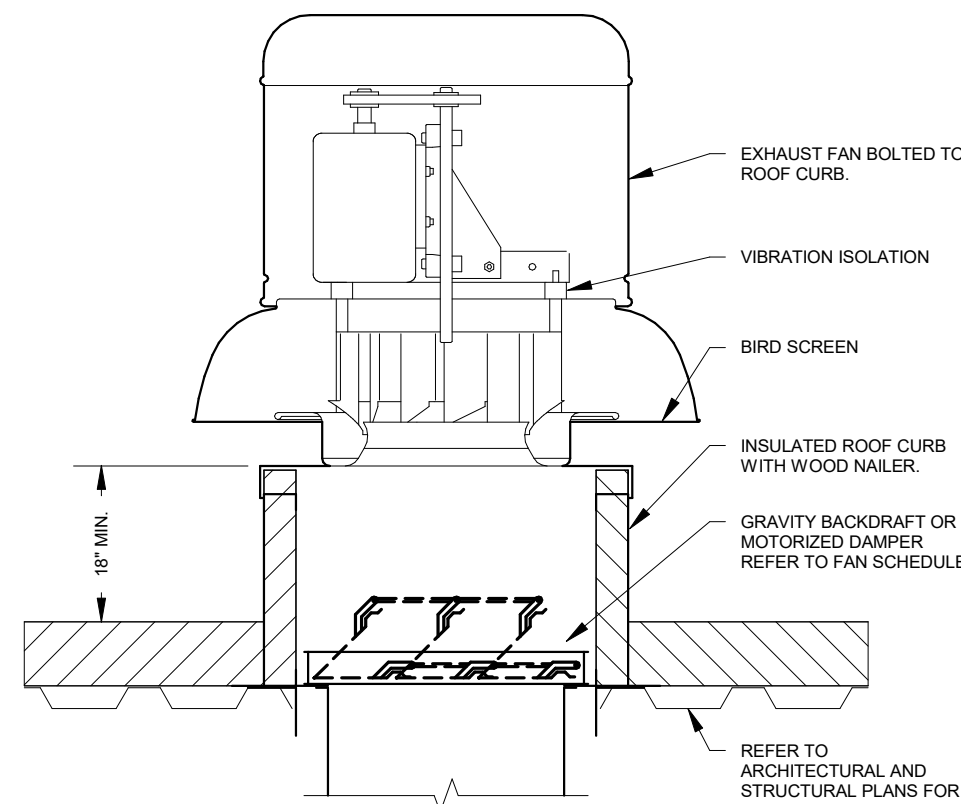
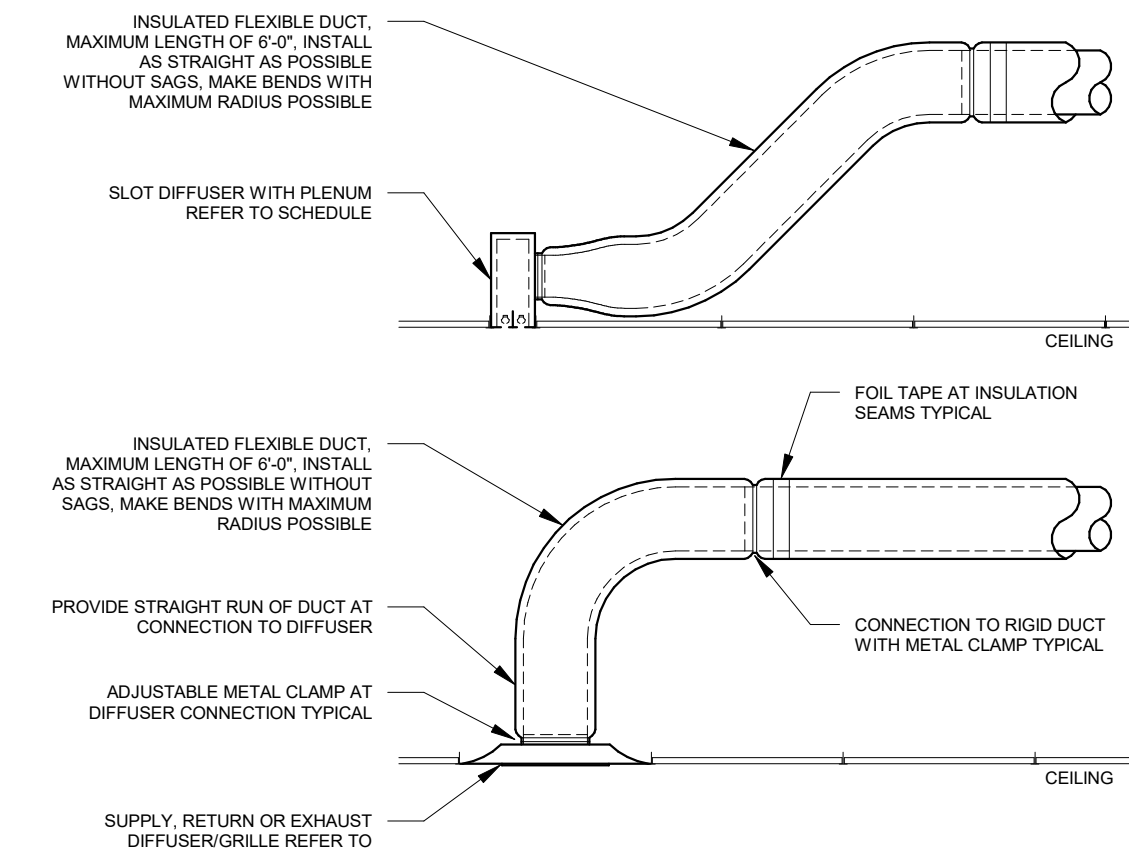
A7 DUCT BRANCH CONNECTION
NOT TO SCALE



B7 DIFFUSER SUPPLY SPIRAL GRILLE
NOT TO SCALE



D7 DIFFUSER CONNECTION
NOT TO SCALE



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**MECHANICAL
DETAILS**

M301

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FILE PATH: BIM 360://16225R21001_LeesSummitFireStation_#4 and #5/LSMO_FIRE STATIONS MEP_V19.rvt

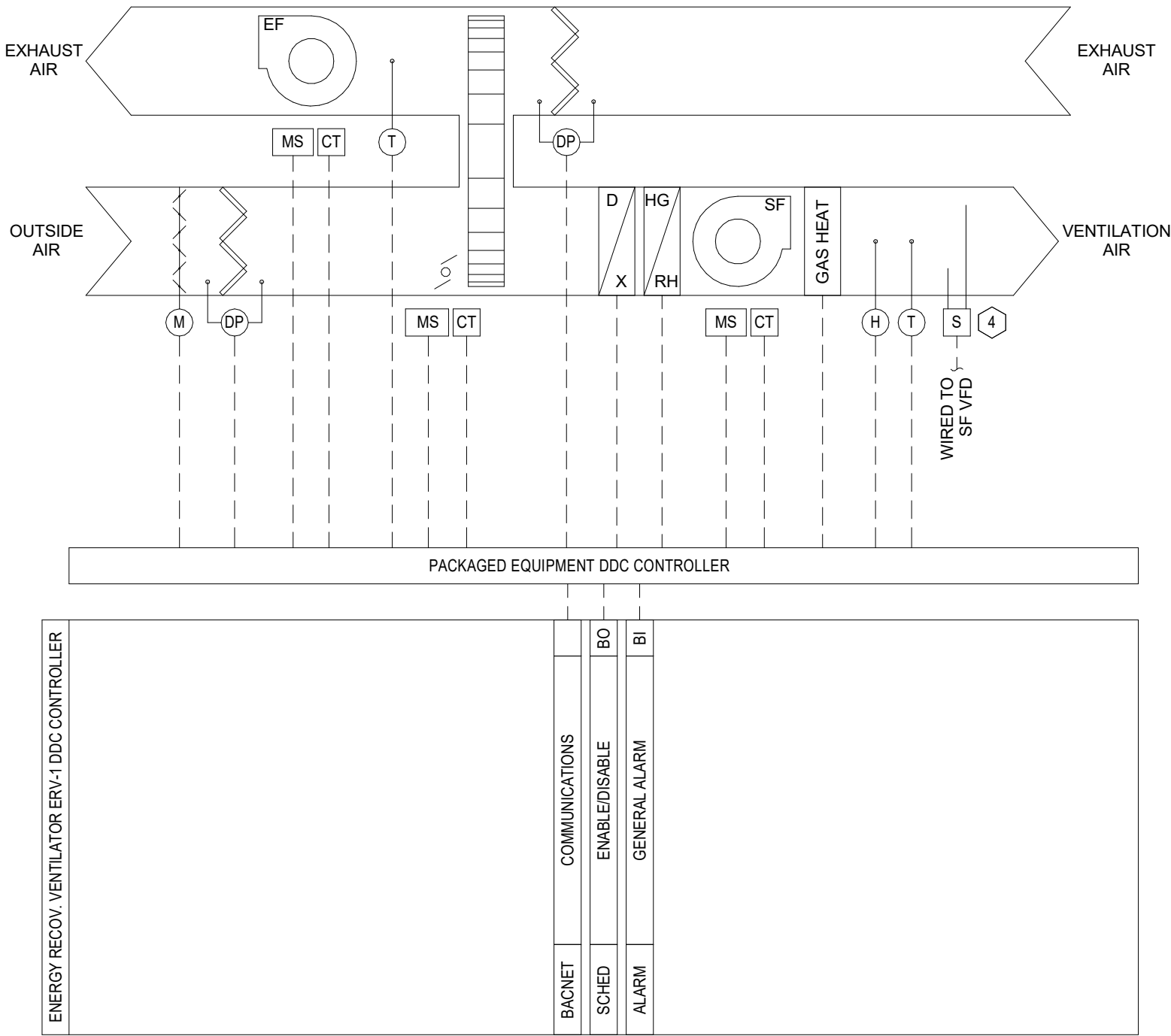
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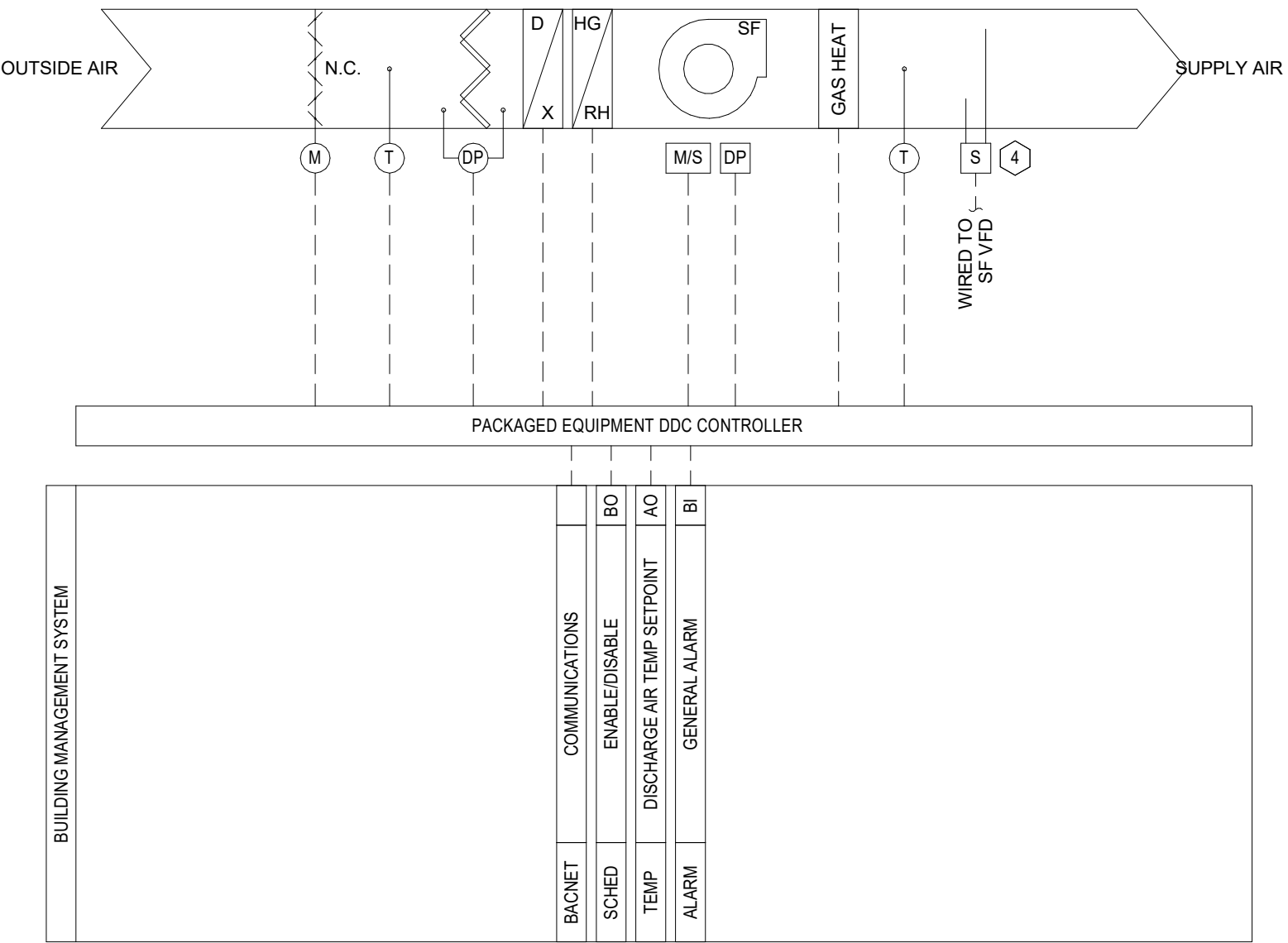
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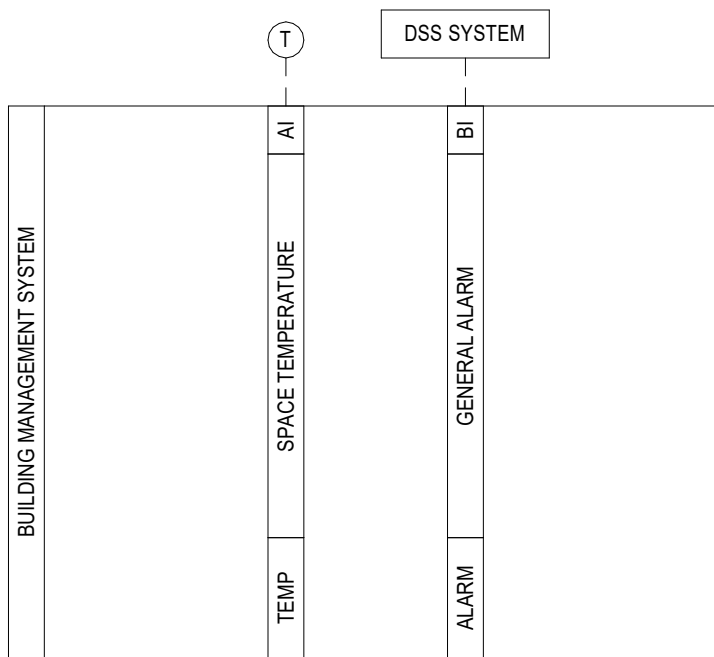
01 Energy Recovery Ventilator ERV-1 Control Diagram

Scale: None



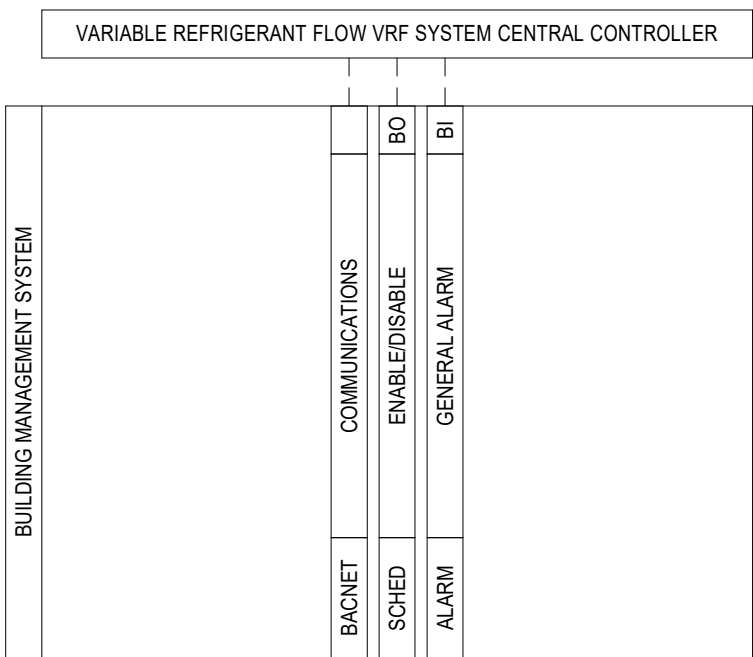
02 Dedicated Outside Air System DOAS-1 Control Diagram

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 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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DRAWN BY:	JL
CHK'D BY:	NB

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TEMPERATURE CONTROLS

M302

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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	CAPTIVEAIRE	CASRTU1-I.125-13-6T	1025	1025	13P-1	DIRECT	1.00	1.25	0.230	1	1100	0	-	-	0.00	0.00	0.00	0	0	87	76	57	57	83.9	33.6	70	61	104.3	84.5	208	3	30.7	35	1313	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	
NOTES: 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.								
GENERAL NOTES (APPLY TO ALL ABOVE): 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	SGN-D	250	0.00	DIRECT	0.00	0.00	120	1	2,3
VF 1	SKY BLADE	FNTM-1443	0	0.00	DIRECT	1.50	1.35	208	3	1,2
NOTES: 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
NOTES: 1. PUMP SHALL HAVE INTEGRAL VFD/ECM MOTOR AND SMART CONTROL. PUMPS SHALL BE SET FOR CONSTANT VOLUME OPERATION.									
GENERAL NOTES (APPLY TO ALL ABOVE): 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	GRSI-8	INTAKE	10 1/2"	10 1/2"	250	0.35	0.08	
LV 1	RUSKIN	ELC-637SDAX	INTAKE	24"	48"	2700	4.09	0.15	1
NOTES: 1. PROVIDE COMBINATION LOUVER/DAMPER. DAMPER SHALL BE CONTROLLED WITH EF-1 FAN OPERATION.									
GENERAL NOTES (APPLY TO ALL ABOVE): 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
NOTES: 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.									
GENERAL NOTES: 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				NOTES
									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	2
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	1
VRU 201A	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15	2
VRU 201B	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15	2
VRU 202	TRANE	TPLFYP008FM140A	24x24 Cassette	25	315	7865.0	5509.0	6114.0	208	1	0.3	15	2
VRU 203	TRANE	TPLFYP008FM140A	24x24 Cassette	25	315	7865.0	5509.0	6114.0	208	1	0.3	15	2
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	2
VRU 209	TRANE	TPLFYP012FM140A	24x24 Cassette	25	335	11797.0	7347.0	9171.0	208	1	0.3	15	2
VRU 210	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15	2
VRU 211	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15	2
VRU 212	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15	2
VRU 213	TRANE	TPEFYP005FM140A	24x24 Cassette	25	280	4916.0	3819.0	3804.0	208	1	0.2	15	2
NOTES: 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.													
GENERAL NOTES: 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
NOTES: 1. PROVIDE FACTORY INSTALLED PHASE MONITOR.												
GENERAL NOTES: 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.												

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							
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 - CERTAINTED 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 - CERTAINTED 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 - CERTAINTED 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 - CERTAINTED 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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100% CONSTRUCTION DOCUMENT DRAWINGS

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CHK'D BY:	N. BARTLEY

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MECHANICAL SCHEDULES

M402

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FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5/LSMO_FIRE STATIONS MEP_V19.rvt

PLUMBING MASTER SYMBOLS LEGEND

STANDARD MOUNTING HEIGHTS	PIPE FITTINGS AND VALVES
REFER TO ARCHITECTURAL ELEVATIONS FOR PLUMBING FIXTURE MOUNTING HEIGHTS, UNO.	<div><div></div>SHUT-OFF VALVE</div> <div><div></div>CHECK VALVE</div> <div><div></div>SHUT-OFF VALVE</div> <div><div></div>TRIPLE DUTY VALVE</div> <div><div></div>SOLENOID VALVE</div> <div><div></div>STRAINER</div> <div><div></div>STRAINER WITH BLOWOFF</div> <div><div></div>TWO-WAY CONTROL VALVE</div> <div><div></div>TWO-WAY CONTROL VALVE</div> <div><div></div>PRESSURE REDUCING VALVE</div> <div><div></div>PRESSURE GAUGE</div> <div><div></div>THERMOMETER</div> <div><div></div>BACKFLOW PREVENTER</div> <div><div></div>EXPANSION JOINT</div> <div><div></div>PIPE ANCHOR</div> <div><div></div>UNION</div> <div><div></div>REDUCER</div> <div><div></div>CAP</div> <div><div></div>ELBOW UP</div> <div><div></div>ELBOW DOWN</div> <div><div></div>TEE UP</div> <div><div></div>TEE DOWN</div> <div><div></div>SIAMESE CONNECTION</div>

- PLUMBING GENERAL NOTES:**
- A. 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.
- B. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.
- C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
- D. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- E. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW DUCT MOUNTED AIR TERMINAL UNITS, TERMINAL HEATING COILS, OR OTHER EQUIPMENT.
- F. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
- G. COORDINATE THE SHUT DOWN OF ANY EXISTING SERVICES AND/OR EQUIPMENT WITH THE OWNER'S REPRESENTATIVE.
- H. 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.
- I. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- J. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".
- K. ALL ROOF DRAIN PIPING SHALL BE ROUTED AT 1/8" FALL PER FOOT. COORDINATE INSTALLATION WITH OTHER TRADES.



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FIRE STATION #4

CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY

LEE'S SUMMIT, MISSOURI 64064

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MO# PE-2007023868

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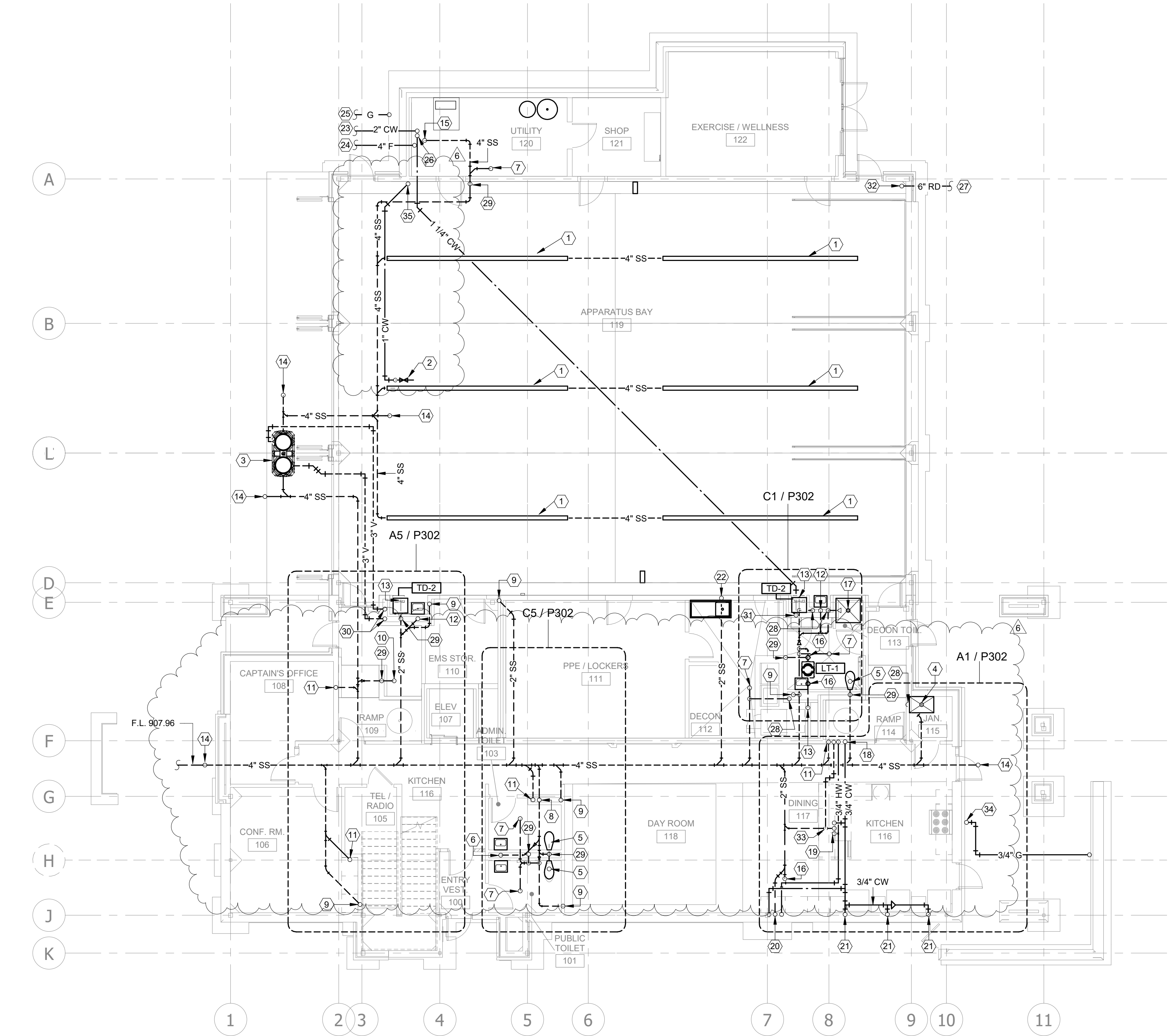
PLUMBING
SYMBOLS
LEGEND

P001

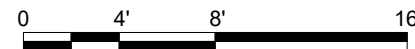
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A1 UNDERGROUND PLUMBING PLAN
1/8" = 1'-0"



- PLUMBING PLAN NOTES:**
- 1 24FT TRENCH DRAIN, REFER TO SPECIFICATIONS.
 - 2 ROUTE 1" WATER LINE INTO END OF TRENCH DRAIN FOR OWNER FURNISHED TRUCK WASH. EXTEND 18" INTO TRENCH DRAIN AND PROVIDE SHUTOFF VALVE.
 - 3 PROVIDE STRIEM OS-100 100 GPM POLYETHYLENE OIL/SAND SEPARATOR.
 - 4 3" TRAPPED WASTE UP TO JANITOR'S SINK.
 - 5 4" WASTE UP TO WATER CLOSET.
 - 6 2" WASTE UP TO LAVATORIES.
 - 7 2" TRAPPED WASTE UP TO FLOOR DRAIN.
 - 8 2" WASTE UP TO DRINKING FOUNTAIN.
 - 9 2" WASTE FROM ABOVE.
 - 10 2" TRAPPED WASTE UP TO FLOOR SINK.
 - 11 4" WASTE FROM ABOVE.
 - 12 2" WASTE UP TO LAVATORY.
 - 13 2" TRAPPED WASTE UP TO TRENCH DRAIN.
 - 14 4" WASTE UP TO FLOOR GRADE CLEANOUT.
 - 15 4" TRAPPED WASTE UP TO FLOOR SINK.
 - 16 2" WASTE UP TO FLOOR CLEANOUT.
 - 17 2" TRAPPED WASTE UP TO SHOWER.
 - 18 3/4" HOT AND 3/4" COLD WATER DOWN FROM ABOVE TO SERVE SINKS.
 - 19 1/2" HOT, 1/2" COLD, AND 2" WASTE UP TO KITCHEN SINK.
 - 20 1/2" HOT, 1/2" COLD, AND 2" WASTE UP TO SINK.
 - 21 1/2" COLD WATER UP TO ICE MAKER BOX.
 - 22 2" WASTE UP TO SINK.
 - 23 2" DOMESTIC WATER SERVICE, REFER TO CIVIL PLANS FOR CONTINUATION.
 - 24 4" FIRE SPRINKLER SERVICE ENTRANCE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 25 NEW INCOMING GAS SERVICE, REFER TO CIVIL DRAWINGS FOR CONTINUATION.
 - 26 1-1/4" COLD WATER FROM ABOVE.
 - 27 6" STORM DRAIN. REFER TO CIVIL PLANS FOR CONTINUATION.
 - 28 1-1/2" VENT UP.
 - 29 2" VENT UP.
 - 30 3" VENT UP.
 - 31 1-1/4" COLD WATER UP
 - 32 6" STORM UP.
 - 33 PROVIDE ISLAND VENTING FOR THIS FIXTURE. REFER TO DETAIL.
 - 34 3/4" GAS ROUTED FROM ABOVE TO OUTDOOR GRILL. PROVIDE SHUT-OFF VALVE AT APPLIANCE CONNECTION.
 - 35 ROUTE 1" WATER LINE EXPOSED DOWN WALL. PROVIDE ISOLATION VALVE AND BACKFLOW PREVENTER.

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UNDERGROUND PLUMBING PLAN

P100

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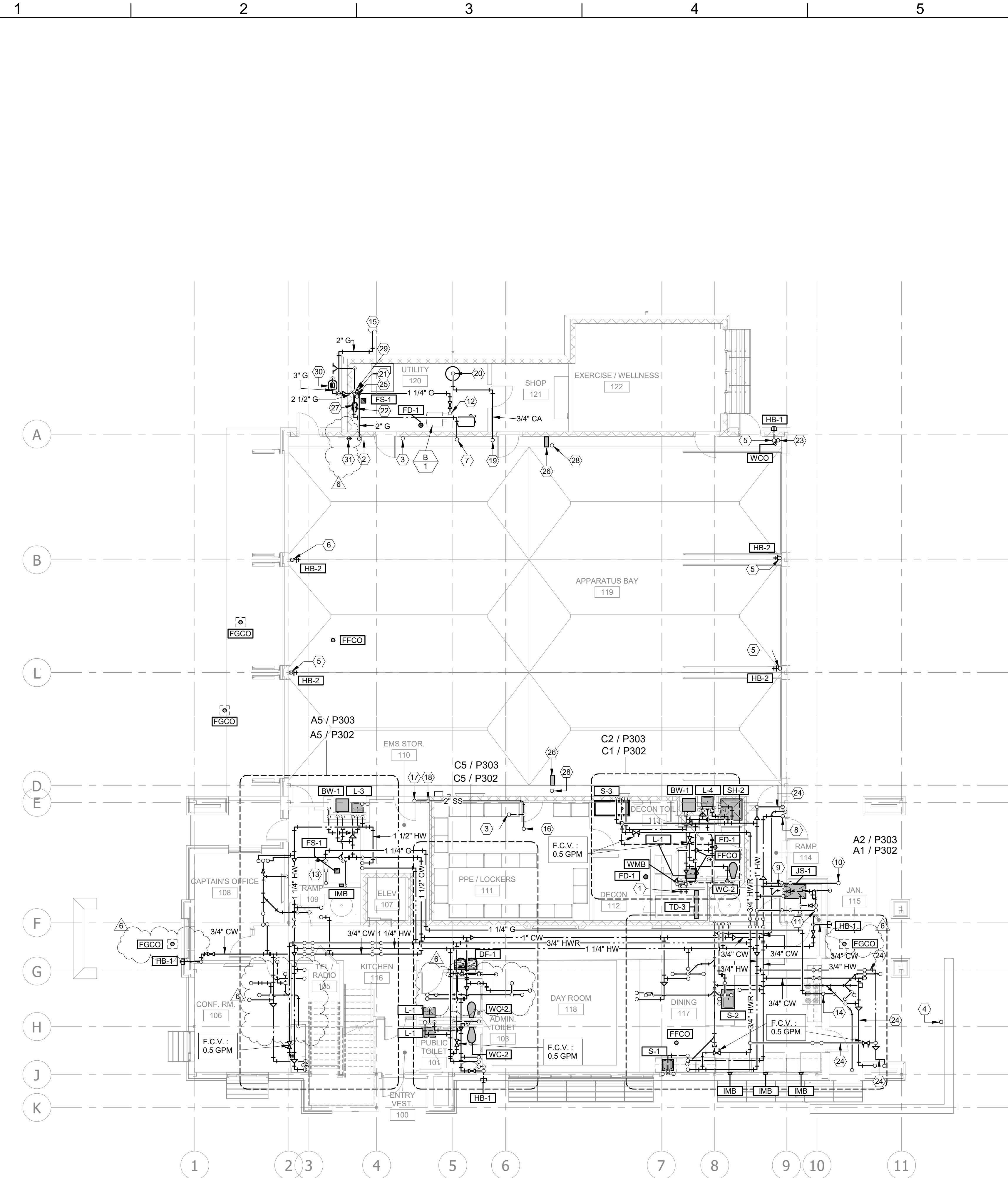
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A1 FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"
0 4' 8' 16'

- 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" COLD WATER FROM ABOVE, PROVIDE SHUTOFF VALVE. 1" LINE CONTINUES BELOW GRADE WITH 1" DOUBLE CHECK BACK FLOW PREVENTER CONNECTED IN LINE.
 - 7 1-1/2" COLD WATER PIPE UP.
 - 8 1/2" COLD, 1/2" HOT, AND 2" WASTE UP TO LAVATORY.
 - 9 3/4" COLD, 3/4" HOT WATER, AND 1-1/2" VENT DOWN TO JANITOR'S SINK.
 - 10 1/2" COLD WATER AND 4" WASTE UP TO WATER CLOSET.
 - 11 1/2" COLD, 1/2" HOT WATER, AND 2" TRAPPED WASTE UP TO SHOWER.
 - 12 1-1/4" GAS DOWN TO BOILER.
 - 13 1-1/4" GAS FROM ABOVE.
 - 14 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.
 - 15 2" GAS TO GENERATOR.
 - 16 2" TRAPPED WASTE UP TO FLOOR DRAIN.
 - 17 2" WASTE UP TO SINK.
 - 18 2" WASTE DOWN.
 - 19 3/4" COMPRESSED AIR UP.
 - 20 3/4" COMPRESSED AIR PIPING DOWN TO COMPRESSOR.
 - 21 2" DOUBLE-CHECK BACKFLOW PREVENTER SERVING DOMESTIC WATER TO BE MOUNTED IN VERTICAL POSITION.
 - 22 4" DOUBLE-CHECK BACKFLOW PREVENTER SERVING FIRE PROTECTION TO BE MOUNTED IN VERTICAL POSITION.
 - 23 6" STORM DRAIN DOWN BELOW GRADE.
 - 24 ROUTE DOMESTIC WATER THROUGH WARM SIDE OF INSULATION IN CEILING.
 - 25 1-1/4" DOMESTIC COLD WATER DOWN BELOW GRADE WITH SHUT OFF VALVE.
 - 26 AIR HOSE REEL, REFER TO SPECS.
 - 27 4" FIRE PROTECTION WATER SERVICE MAIN FROM BELOW. REFER TO BELOW GRADE PLUMBING PLAN, SHEET P-100, FOR CONTINUATION.
 - 28 1/2" COMPRESSED AIR LINE DOWN TO HOSE REEL.
 - 29 2" DOMESTIC COLD WATER SERVICE MAIN FROM BELOW. REFER TO BELOW GRADE PLUMBING PLAN, SHEET P-100, FOR CONTINUATION.
 - 30 NEW GAS SERVICE AND METER.
 - 31 ROUTE 1" WATER LINE EXPOSED DOWN WALL PROVIDE ISOLATION VALVE AND BACKFLOW PREVENTER.



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FIRST FLOOR
PLUMBING PLAN

P101

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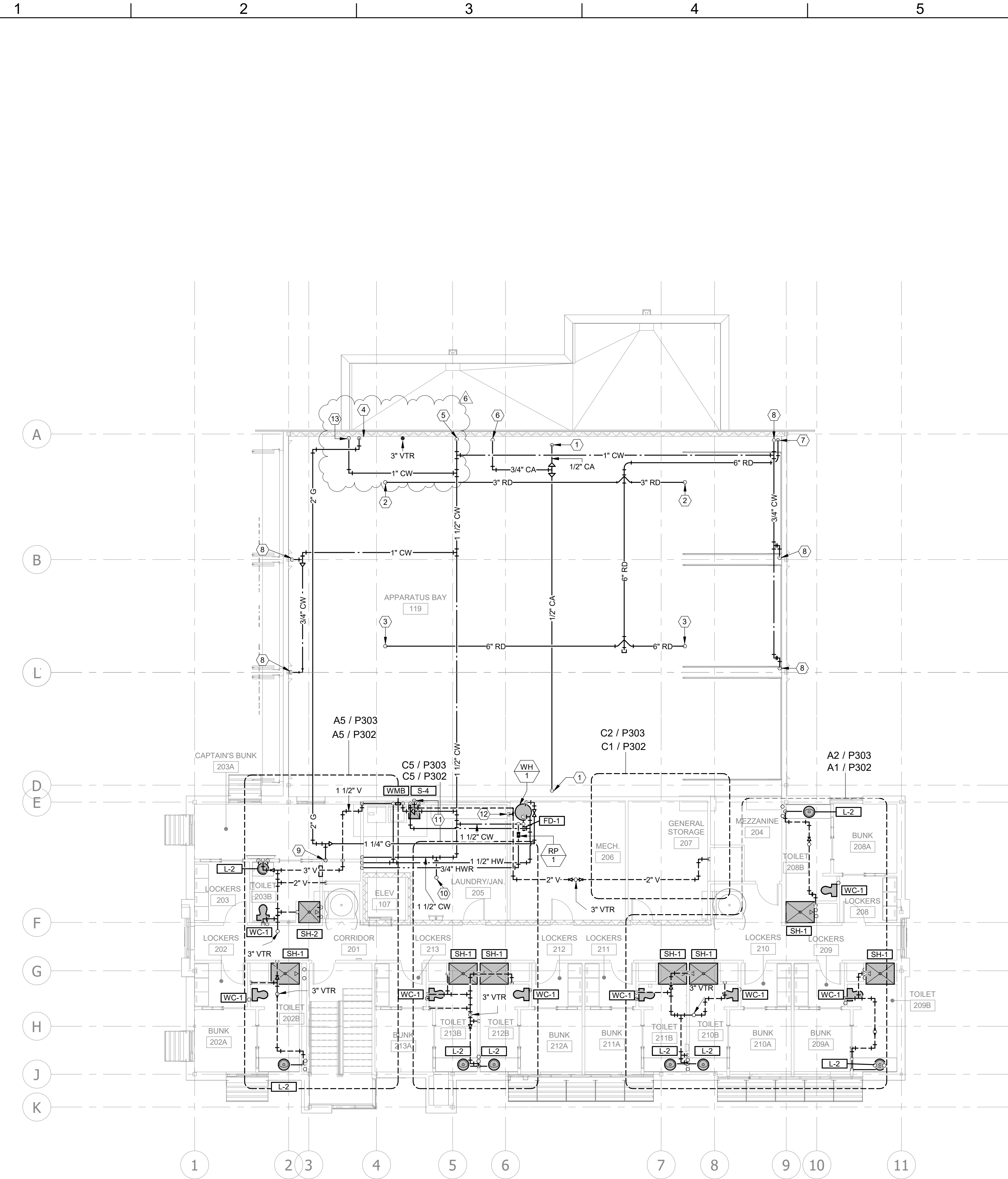
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A1 SECOND FLOOR PLUMBING PLAN
1/8" = 1'-0"

PLUMBING PLAN NOTES:

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

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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

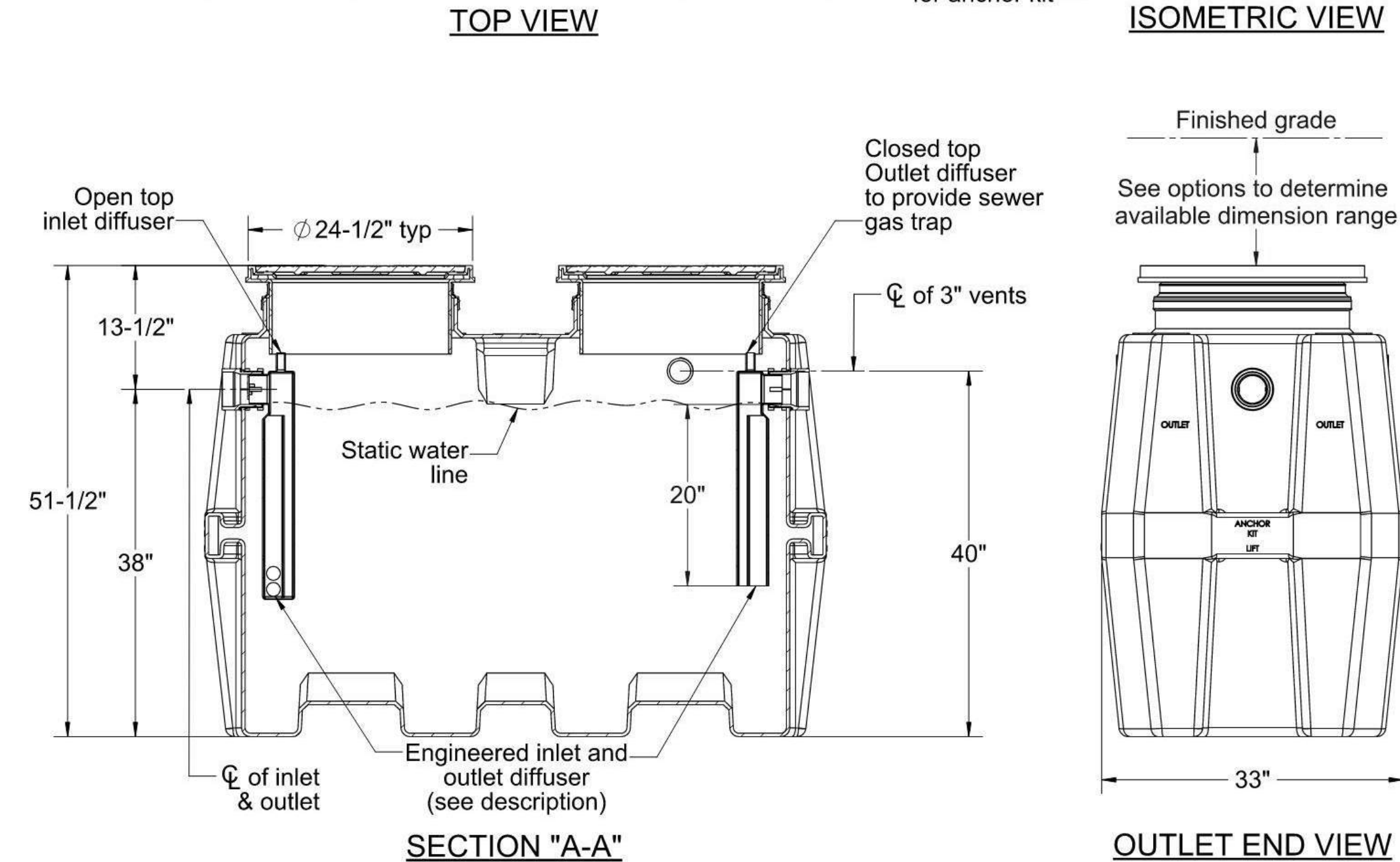
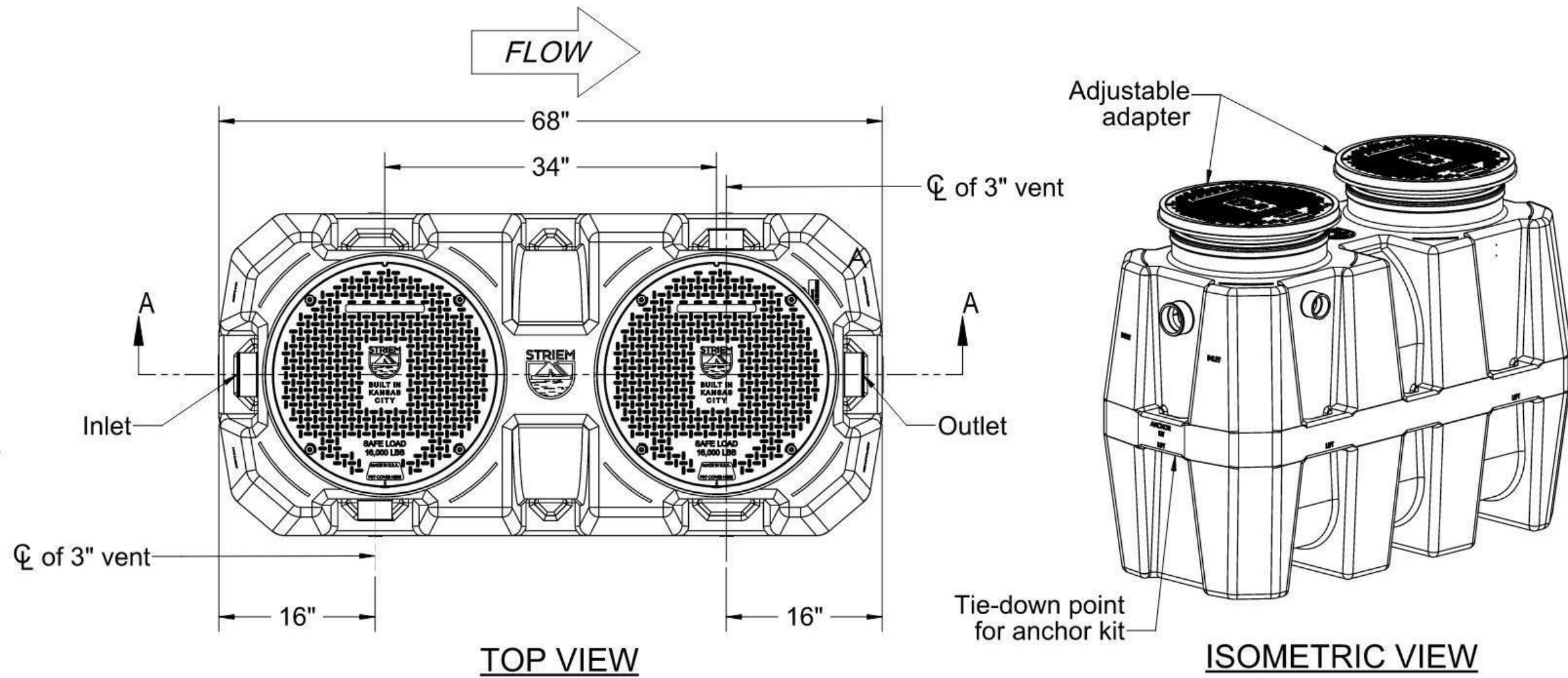
- ☐ 4M - 4" Male Thread Inlet / Outlet
- ☐ 6P - 6" Plain End SCH.40 Inlet / Outlet
- ☐ 6M - 6" Male Thread Inlet / Outlet
- ☐ C24-HP (2) - H20 Rated Pickable Cast Iron Cover
- ☐ CC24 (2) - Integral Membrane Clamping Collar Kit
- ☐ CS3 - Clean Sweep Coalescing Media (single)*
- ☐ CS6 - Clean Sweep Coalescing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


*Clean Sweep Coalescing Media not compatible with CPRK

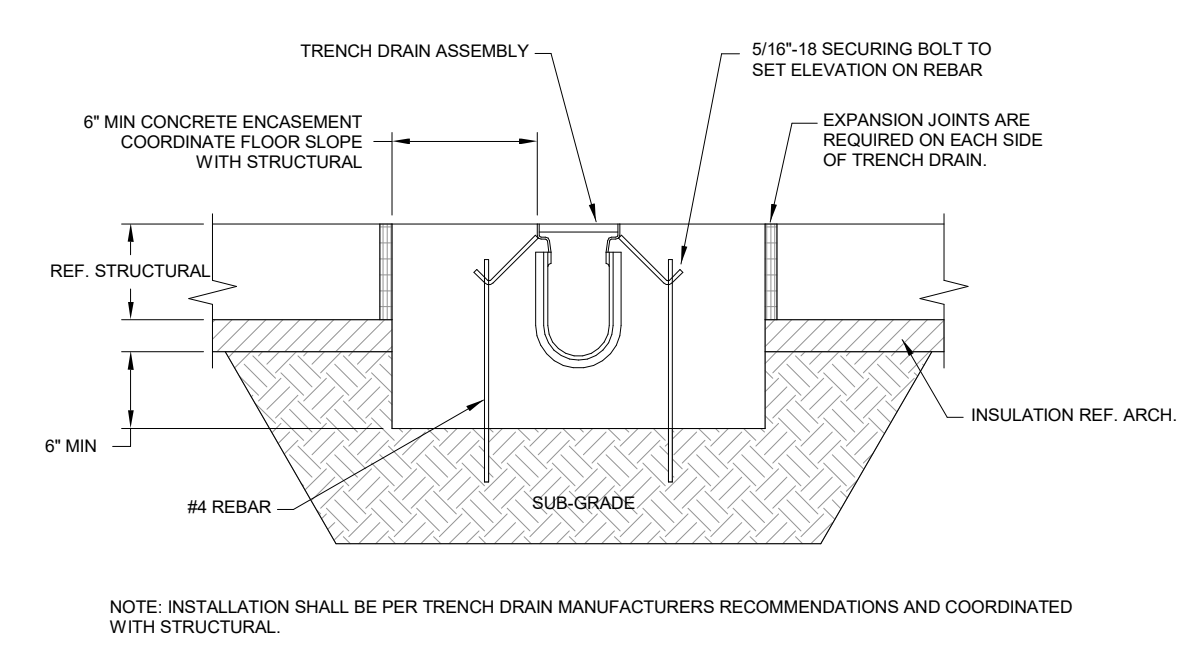
RISER OPTIONS

- ☐ 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.

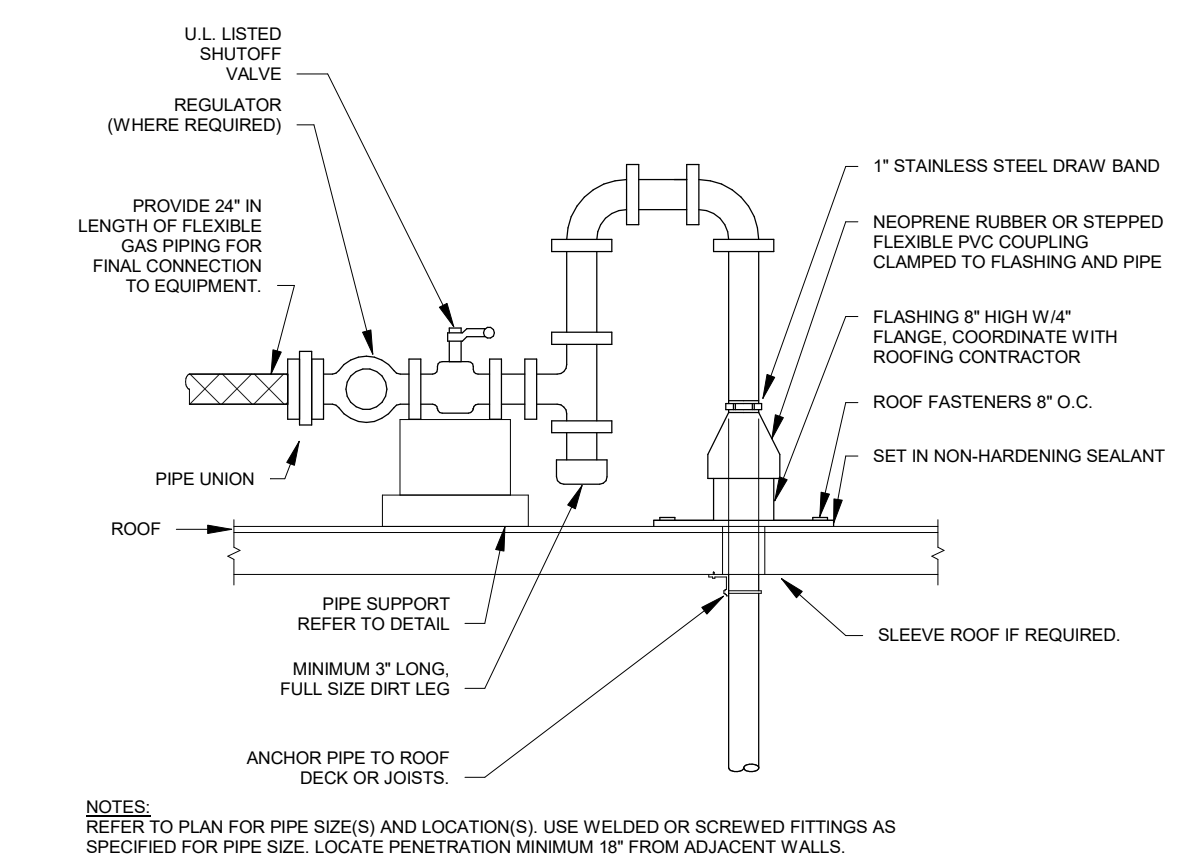
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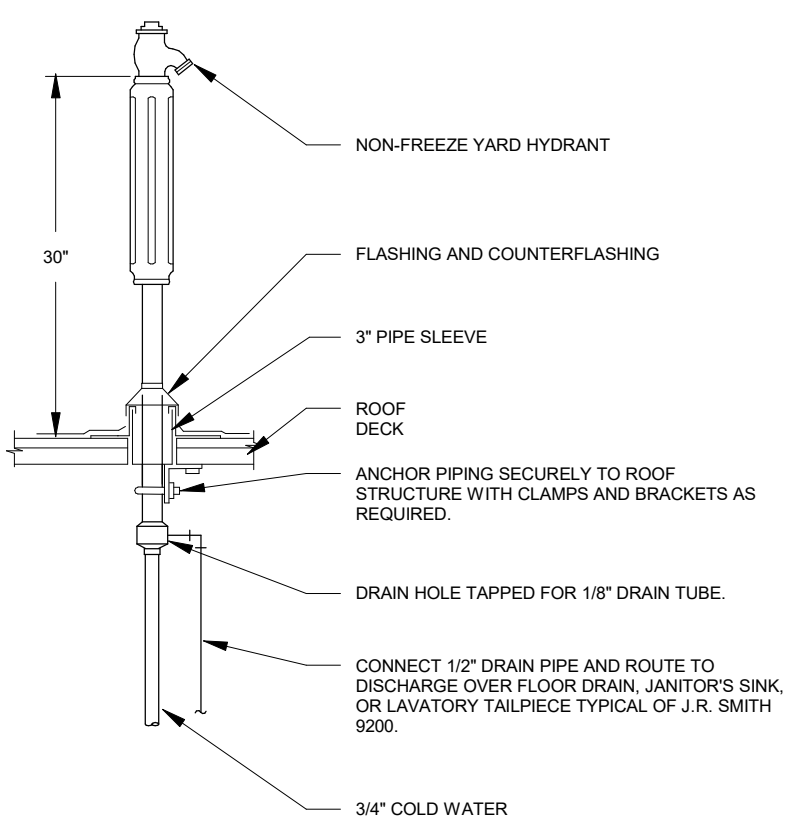
MODEL NUMBER: OS-100				SPECIFICATION SHEET	
DESCRIPTION: 100 GPM POLYETHYLENE OIL/SAND SEPARATOR					
DWG BY: MJ				DATE: 12/09/2020	
REV: 0				ECO:	
				Striem 3100 Brinkerhoff Kansas City, KS 66115 Tel: 913-222-1500 orders@striemco.com www.striemco.com Made in the U.S.A	
					



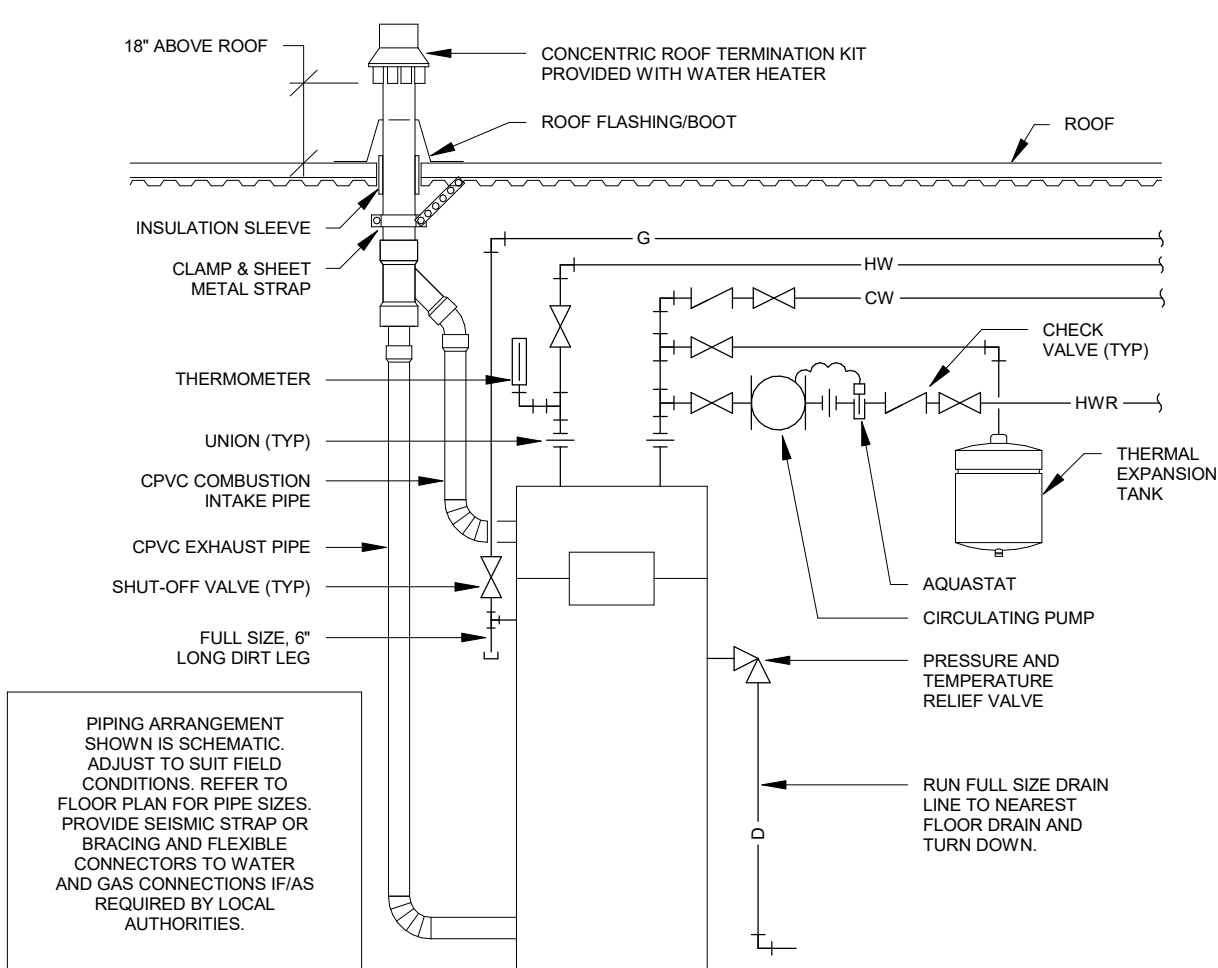
D7 TRENCH DRAIN DETAIL
NOT TO SCALE



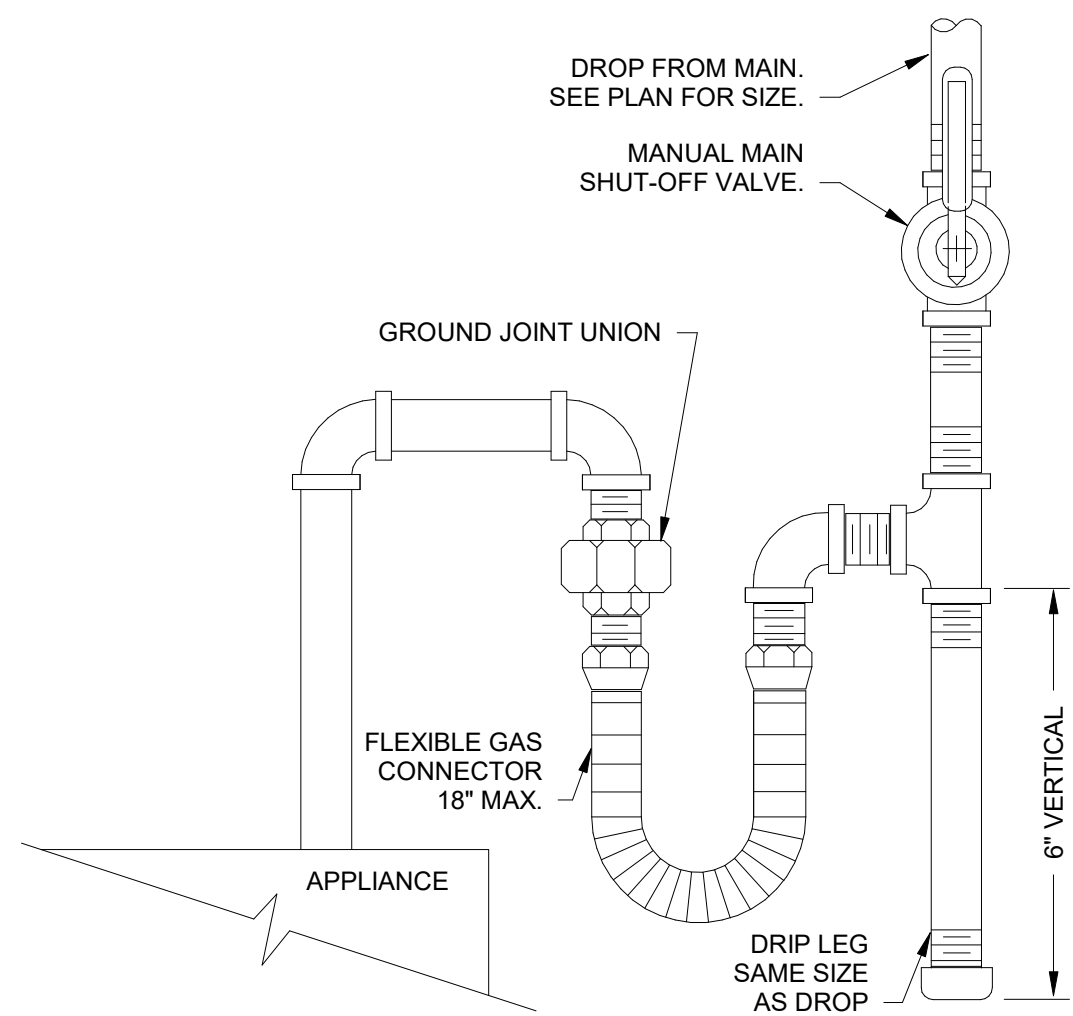
C7 GAS PIPE THRU ROOF
NOT TO SCALE



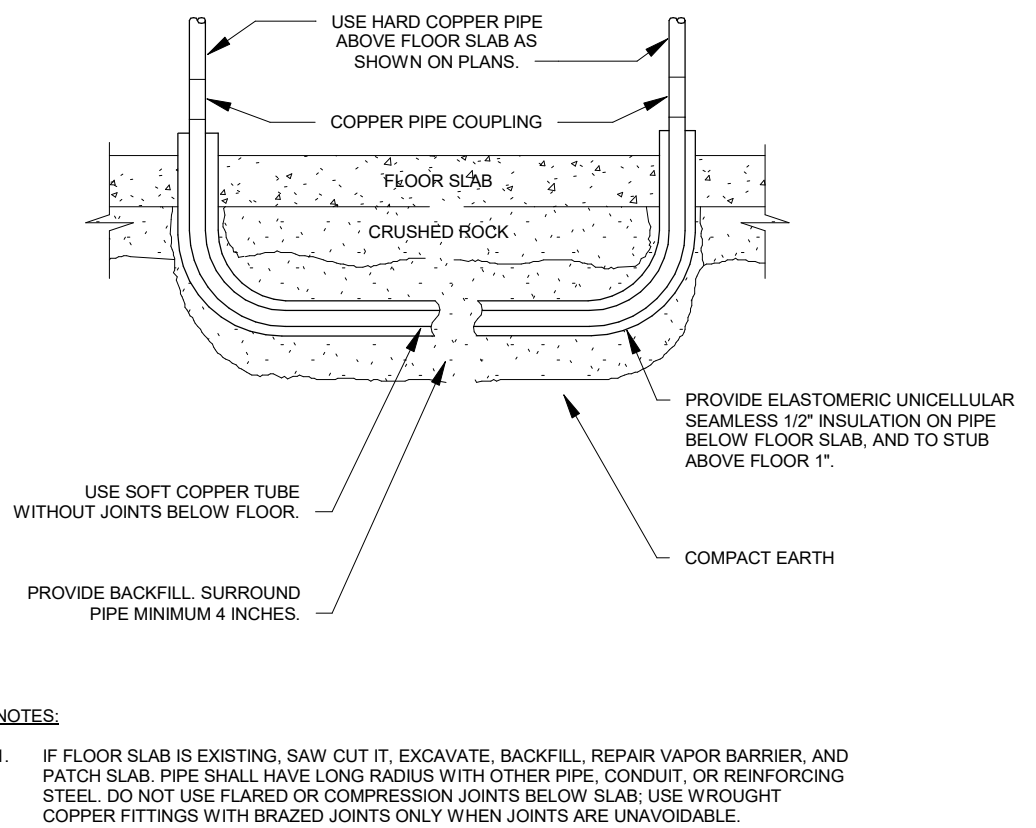
B7 ROOF HYDRANT
NOT TO SCALE



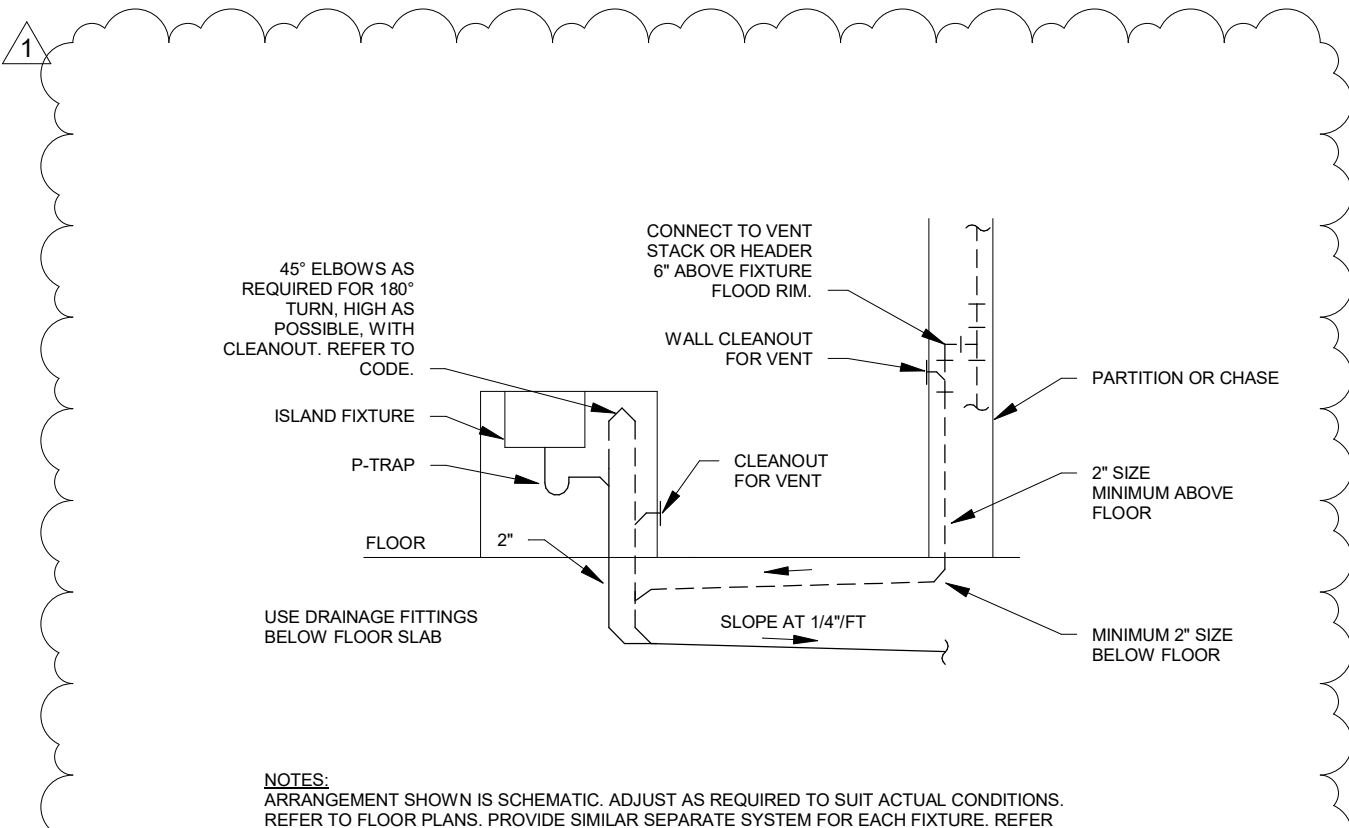
A7 GAS WATER HEATER AND HIGH EFF VENT ROOF
NOT TO SCALE



A1 GAS APPLIANCE CONNECTION DETAIL
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A3 UNDER SLAB WATER PIPE
NOT TO SCALE



A5 ISLAND FIXTURE VENT
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FIRE STATION #4
CITY OF LEE'S SUMMIT
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LEE'S SUMMIT, MISSOURI 64064

#	Description	Date
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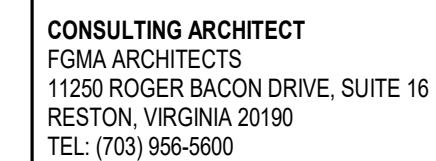
PLUMBING DETAILS

P301

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- 1 1-1/2" VENT DOWN AND 2" WASTE UP TO WASHING MACHINE BOX.
- 2 2" TRAPPED WASTE UP TO TRENCH DRAIN.
- 3 2" TRAPPED WASTE UP TO FLOOR SINK.
- 4 2" VENT DOWN AND 4" WASTE UP TO FLOOR CLOSE.
- 5 1-1/2" VENT DOWN AND 2" WASTE UP TO LAVATORY.
- 6 1-1/2" VENT DOWN AND 2" WASTE UP TO SHOWER.
- 7 SEE UNDERGROUND PLUMBING PLAN, P101 FOR CONTINUATION.
- 8 1-1/2" VENT DOWN AND 2" WASTE UP TO DRINKING FOUNTAIN.
- 9 2" TRAPPED WASTE UP TO FLOOR DRAIN.
- 10 PROVIDE ISLAND VENTING FOR THIS FIXTURE. REFER TO DETAIL.
- 11 2" WASTE UP TO SINK.
- 12 1-1/2" VENT DOWN AND 2" WASTE UP TO SINK.
- 13 1-1/2" VENT DOWN AND 3" TRAPPED WASTE UP TO JANITOR'S SINK.
- 14 SEE FIRST FLOOR PLUMBING PLAN, P101 FOR CONTINUATION.
- 15 SEE SECOND FLOOR PLUMBING PLAN, P102, FOR CONTINUATION.



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WASTE AND VENT RISERS

P302

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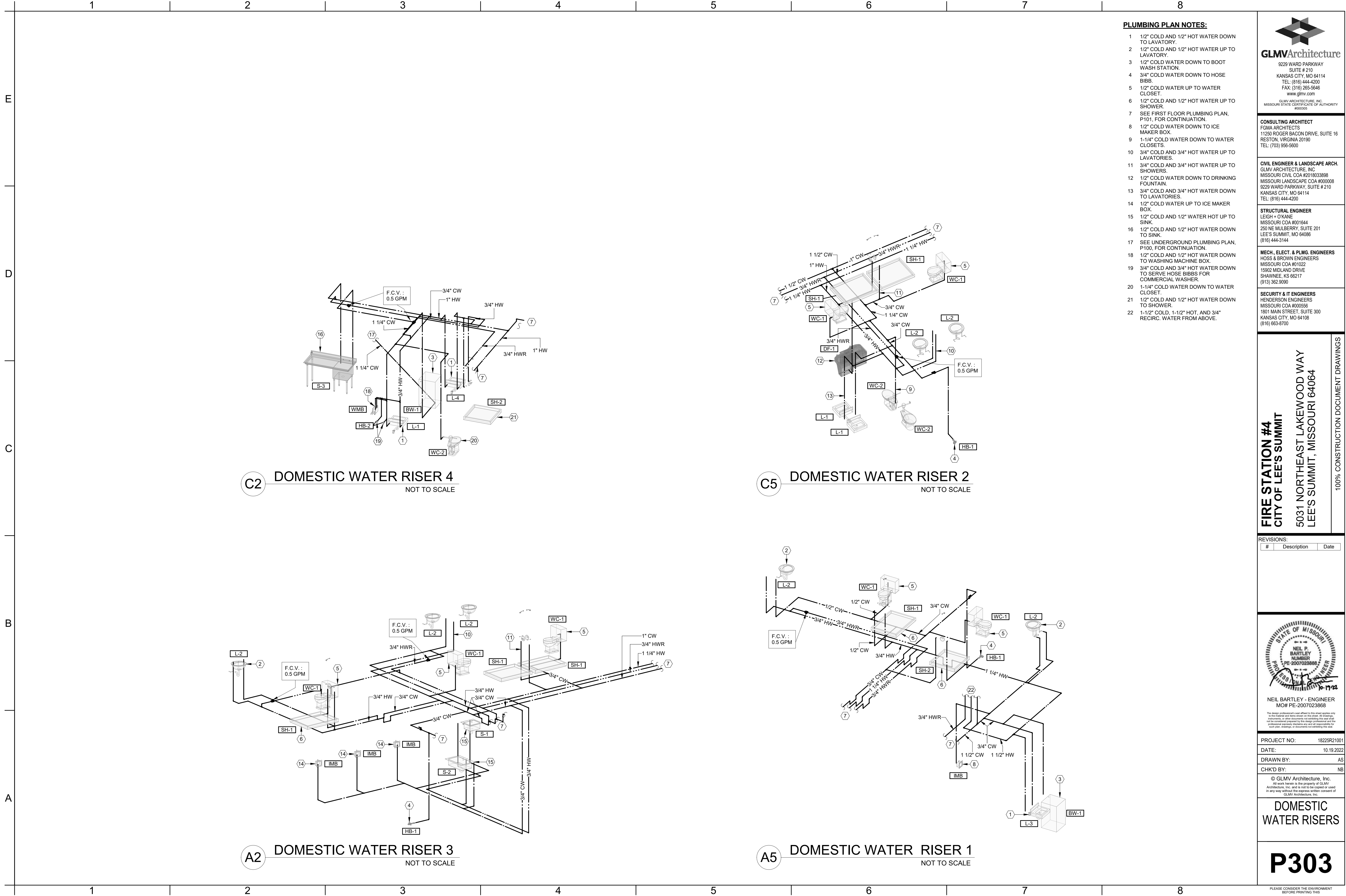
D

C

B

A

FILE PATH: BIM 360://18225R21001_LeesSummitFireStation_#4 and #5/LSMO_FIRE STATIONS MEP_V19.rvt



PLUMBING PLAN NOTES:

- 1 1/2" COLD AND 1/2" HOT WATER DOWN TO LAVATORY.
- 2 1/2" COLD AND 1/2" HOT WATER UP TO LAVATORY.
- 3 1/2" COLD WATER DOWN TO BOOT WASH STATION.
- 4 3/4" COLD WATER DOWN TO HOSE BIBB.
- 5 1/2" COLD WATER UP TO WATER CLOSET.
- 6 1/2" COLD AND 1/2" HOT WATER UP TO SHOWER.
- 7 SEE FIRST FLOOR PLUMBING PLAN, P101, FOR CONTINUATION.
- 8 1/2" COLD WATER DOWN TO ICE MAKER BOX.
- 9 1-1/4" COLD WATER DOWN TO WATER CLOSETS.
- 10 3/4" COLD AND 3/4" HOT WATER UP TO LAVATORIES.
- 11 3/4" COLD AND 3/4" HOT WATER UP TO SHOWERS.
- 12 1/2" COLD WATER DOWN TO DRINKING FOUNTAIN.
- 13 3/4" COLD AND 3/4" HOT WATER DOWN TO LAVATORIES.
- 14 1/2" COLD WATER UP TO ICE MAKER BOX.
- 15 1/2" COLD AND 1/2" WATER HOT UP TO SINK.
- 16 1/2" COLD AND 1/2" HOT WATER DOWN TO SINK.
- 17 SEE UNDERGROUND PLUMBING PLAN, P100, FOR CONTINUATION.
- 18 1/2" COLD AND 1/2" HOT WATER DOWN TO WASHING MACHINE BOX.
- 19 3/4" COLD AND 3/4" HOT WATER DOWN TO SERVE HOSE BIBBS FOR COMMERCIAL WASHER.
- 20 1-1/4" COLD WATER DOWN TO WATER CLOSET.
- 21 1/2" COLD AND 1/2" HOT WATER DOWN TO SHOWER.
- 22 1-1/2" COLD, 1-1/2" HOT, AND 3/4" RECIRC. WATER FROM ABOVE.



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DOMESTIC WATER RISERS

P303

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E

D

C

B

A

TOTAL CONNECTED GAS LOAD	
EQUIPMENT MARK	GAS LOAD (MBH)
B 1	500.0
DOAS 1	104.3
ERV 1	196.2
GENERATOR	2115.0
GRILL	56.0
RANGE OVEN	78.0
WH 1	199.9
TOTAL GAS LOAD: 7	3249.4

PLUMBING FIXTURE SCHEDULE (CONTINUED)									
MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTIONS				NOTES
					CW	HW	W	V	
WMB	WASHING MACHINE CONNECTION BOX	GUY GRAY	B200	GALVANIZED STEEL BOX	1/2"	1/2"	2"	1-1/2"	
IMB	ICE MAKER CONNECTION BOX	GUY GRAY	BIM875	GALVANIZED STEEL BOX	1/2"	--	--	--	
MV-1	POINT-OF-USE THERMOSTATIC MIXING VALVE	SYMMONS	270-LF	0.25 GPM MIN. FLOW ASSE 1017 CERTIFIED LOW FLOW	SEE PLAN	--	--		15
EW-1	FAUCET WITH INTEGRAL EMERGENCY EYE WASH	BRADLEY	S19-505M	FAUCET WITH SWING ACTIVATED EYE-WASH PROVIDE S19-2000 TMV	1/2"	1/2"	--	--	
ET-1	EXPANSION TANK	AMTROL	THERM-X-TROL ST-12	WATER HEATER	--	3/4"	--	--	
		TACO	PAX						
RP-1	HIGH EFFICIENCY RECIRCULATION PUMP	TACO	006e3	1/40 HP, 120V AQUASTAT WITH 7-DAY DIGITAL TIMER 3.0 GPM, 8' HEAD	--	--	--	--	15
GD-1	GARBAGE DISPOSAL	INSINKERATOR	BADGER 5	1/2 HP, 120V	--	--	--	--	
HB-1	NON-FREEZE WALL HYDRANT	WOODFORD	MODEL 65	VACUUM BREAKER	1/2"	--	--	--	10
		WADE	8600	LOOSE CONTROL KEY WALL CLAMP					
HB-2	ROUGH BRASS HOSE BIBB	WOODFORD	MODEL 24	VACUUM BREAKER	1/2"	--	--	--	
		CHICAGO	998	DRAIN PLUG					
RD-1	CAST IRON ROOF DRAIN WITH CAST IRON DOME	WADE	W-3000	ROOF DRAIN WITH FLANGE, FLASHING RING, GRAVEL STOP AND CAST IRON DOME	--	--	--	--	
		ZURN	ZC-100						
		SMITH	1010-CID						
RH-1	FREEZELESS ROOF HYDRANT NO DRAIN	WOODFORD	2131R	--	3/4"	--	--	--	
NOTES:									
1. FIXTURE IS ADA COMPLIANT. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL MOUNTING HEIGHT.									
2. FAUCET HOLES TO MATCH FAUCET SPECIFIED.									
3. MOUNT WITH HANDICAPPED RECEPTOR RIM 34" ABOVE FLOOR.									
4. FIXTURE ASSEMBLY MUST BE APPROVED BY AND INSTALLED PER ADA.									
5. PROVIDE TRAP GUARDS FOR ALL FLOOR DRAINS OUTSIDE OF FOOD SERVICE AREA.									
6. PROVIDE FIRE RATED BOX WHERE INSTALLATION IS WITHIN FIRE RATED WALLS, AND STANDARD BOX FOR ALL OTHER WALL TYPES.									
7. TOLJET FLUSH HANDLES SHALL BE MOUNTED ON THE OPEN SIDE OF THE WATER CLOSET OPPOSITE THE GRAB BALL WALL.									
8. PROVIDE BLOCKING FOR FUTURE GRAB BAR INSTALLATION.									
9. COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED.									
10. PROVIDE OPERATING ROD ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS BASED ON WALL THICKNESS.									
11. PIPE FOR SHOWER HEAD SHALL BE LOCATED AT 6'-8" A.F.F., ABOVE SURROUND									
12. COORDINATE SPUD SIZE WITH FLUSH VALVE SUPPLIED.									
13. EQUIVALENT CARRIER BY WADE.									
14. PLUG THE DRAIN FITTING AT THE BOX.									
15. PIPE SIZE AS SHOWN ON DRAWING.									
16. PROVIDE LOAD CLASS C, 9870-462-DGC DUCTILE IRON SLOTTED GRATE. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.									
GENERAL NOTES:									
A. PROVIDE INSULATION KIT ON ALL ADA FIXTURES WITH EXPOSED TRAP AND SUPPLIES.									

PIPE INSULATION							
INSULATION	DESCRIPTION						
TYPE 1	FIBER GLASS RIGID MOLDED INSULATION - JOHNS-MANVILLE MICRO-LOK, ASJ JACKET, K-VALUE = 0.23, MAX SERVICE TEMP = 850°F VAPOR TRANSMISSION = 0.02 PERMS MAX, COMPLIES WITH ASTM C 547, CLASS 3, AND ASTM C1136 TYPE 1						
TYPE 2	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 3	ALUMINUM JACKETS, 0.016" THICK, EMBOSSED FINISH, LONGITUDINAL SLIP JOINTS AND 2" LAPS COMPLIES WITH ASTM B 209						
TYPE 4	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						
TYPE 5	LAVATORY PIPING COVERS - HANDICAPPED LAVATORY P-TRAPS AND HOT/ COLD WATER LINES SHALL BE INSULATED WITH TRUEBRO LAV GUARD 2, FULLY MOLDED VINYL INSULATION SYSTEM. VINYL THICKNESS = 0.125", ADA COMPLIANT, MEETING ASTM D-635, ASTM G21, ASTM G22, COLOR SHALL BE CHINA WHITE AND PAINTABLE WITH LATEX PAINT.						
INSULATED PIPE SUPPORTS							
PIPE SIZE		INSERT LENGTH	SHIELD LENGTH	SHIELD GAUGE	INSULATION	NOTES	
1 1/2" TO 5"		6"	4"	20	TYPE 4	4	
6" TO 8"		9"	6"	16	TYPE 4	4	
INSULATION THICKNESS FOR PIPES LOCATED WITHIN THE BUILDING THERMAL ENVELOPE							
PIPING SYSTEM	CONTINUOUS VAPOR BARRIER	PIPE SIZE				INSULATION	NOTES
		<= 1 1/2"	2" - 4"	5" - 6"	>= 8"		
CW	YES	1"	1"	1"	1"	TYPE 1	...
HW	NO	1"	1"	1"	1"	TYPE 1	...
HWC	NO	1"	1"	1"	1"	TYPE 1	...
ROOF DRAIN	YES	1"	1"	1"	1"	TYPE 1	...
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.	SEAL LONGITUDINAL SEAMS, ENG JOINTS AND PROTRUSIONS WITH VAPOR-BARRIER MASTIC AND JOINT SEALANT.						
3.	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.	INSTALL ALL PIPE INSULATION PER MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.						
C.	INSTALL INSULATION CONTINUOUSLY THROUGH PENETRATIONS						
D.	PROVIDE LAVATORY PIPING COVERS AT ALL ADA ACCESSIBLE SINKS AND LAVATORIES						

PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTIONS				NOTES
					CW	HW	W	V	
WC-1	ADA FLOOR MOUNTED FLUSH TANK	AMERICAN STANDARD	CADET III 3717C.001	CHURCH 9500C OPEN FRONT SEAT TOTO SC534 OPEN FRONT SEAT	1/2"	--	4"	2"	1, 4, 7
	WATER CLOSET-1.28 GPF	KOHLER	K-5310-0						
WC-2	ADA FLOOR MOUNTED FLUSH VALVE	TOTO	CST454CEFG	CHURCH 9500C OPEN FRONT SEAT TOTO SC534 OPEN FRONT SEAT	1-1/4"	--	4"	2"	4, 9
	WATER CLOSET	AMERICAN STANDARD	MADERA 3043.001						
		KOHLER	K-96057-0						
FV-1	BATTERY POWERED SENSOR WATER CLOSET FLUSH VALVE	TOTO	CT705ELN	1.6 GALLONS PER FLUSH	--	--	--	--	
		SLOAN	G2 811-1.6						
		ZURN	ZER6000AV-TM-WS1						
L-1	WALL HUNG LAVATORY	TOTO	TET1GA	FAUCET: F-7 20X18 BASIN, CONCEALED ARM CARRIER, MIXING VALVE MV-1	--	--	2"	1-1/2"	2
		AMERICAN STANDARD	LUCERNE 0355.012						
		KOHLER	KINGSTON K-2005						
L-2	SOLID SURFACE SINK FURNISHED WITH COUNTERTOP	TOTO	LT307	FAUCET: F-1	--	--	2"	1-1/2"	2
		FURNISHED BY OTHERS	--						
L-3	WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	FAUCET: F-3 20X18 BASIN, CONCEALED ARM CARRIER, MIXING VALVE MV-1	--	--	2"	1-1/2"	2
		KOHLER	KINGSTON K-2005						
		TOTO	LT307						
L-4	WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	FAUCET: EW-1 20X18 BASIN, CONCEALED ARM CARRIER	--	--	2"	1-1/2"	2
		KOHLER	KINGSTON K-2005						
		TOTO	LT307						
S-1	ADA SINGLE BOWL 18 GAUGE SELF RIM SINK	ELKAY	LRAD202265PD LUSTERSTONE	FAUCET F-3 INTEGRAL DRAIN WITH STOP	--	--	2"	1-1/2"	1, 2, 4
S-2	ADA SINGLE BOWL TOP MOUNT KITCHEN SINK	ELKAY	LRADQ312265PD LUSTERSTONE	FAUCET: F-3 GARBAGE DISPOSAL: GD-1 33X22XS-1/2" SINGLE BOWL	--	--	2"	--	1, 2, 4
S-3	SINGLE BOWL SINK WITH TWO DRAINBOARDS	JUST MANUFACTURING	NSFB-260-24RL-12/12	FAUCET: F-4	--	--	2"	--	2
S-4	FLOOR MOUNTED TUB TYPE SERVICE SINK	FIAT	FL-1	FAUCET F-6 INTEGRAL DRAIN WITH STOP	--	--	2"	1-1/2"	
JS-1	MOLDED STONE JANITOR'S SINK	FIAT	MSB-3624	FAUCET: F-5; S/S BUMPERGUARDS, S/S WALL GUARDS	--	--	3"	1-1/2"	
BW-1	BOOT WASH	RHINO	AGRIWASH	FAUCET: HB-2 DRAIN: TD-2 INTEGRAL SUMP, SS WATER LINES	--	--	--	--	
F-1	ADA SINGLE LEVER LAVATORY FAUCET	AMERICAN STANDARD	RELIANT 7385007	2.5 GPM, VANDAL RESISTANT POP-UP DRAIN, 4" CENTERS	1/2"	1/2"	--	--	3
F-2	HANDS FREE LAVATORY FAUCET	DELTA	501/520/523-WFHD	THERMOSTATIC MIXING VALVE	1/2"	1/2"	--	--	
		ZURN	SIERRA Z-7440-VP						
F-3	ADA SINGLE LEVER KITCHEN FAUCET	TOTO	TEL105-D10E	0.5 GPM, SELF-GENERATING BATTERY, THERMOSTATIC MIXING VALVE, GRID STRAINER, COVER PLATE	1/2"	1/2"	--	--	
		AMERICAN STANDARD	2021.634						
F-4	ADA TWO-HANDLE WALL-MOUNT SINK FAUCET	DELTA	400-WFELHHDF	HAND SPRAY	1/2"	1/2"	--	--	
		MOEN	BANBURY 87017						
F-5	JANITOR'S SINK FAUCET	DELTA	28T6443	CUP STRAINER DRAIN	1/2"	1/2"	--	--	
		ZURN	Z-841H1						
F-6	TUB TYPE SINK FAUCET	T&S	B-0290	2.5 GPM, 8" CENTERS	3/4"	3/4"	--	--	
		AMERICAN STANDARD	8344.112						
F-7	HANDS FREE LAVATORY FAUCET	FIAT	830-AA	SWING SPOUT	3/4"	3/4"	--	--	
		DELTA	28T9-AC						
		FIAT	A-1	MOUNT ON BACKSPLASH	3/4"	3/4"	--	--	
				VACUUM BREAKER, WALL BRACE, PAIL HOOK, 30" HOSE WITH WALL GRIP, MOP HANGER	1/2"	1/2"	--	--	
				DECK FAUCET	1/2"	1/2"	--	--	
				4" CENTERS	1/2"	1/2"	--	--	
				0.5 GPM, SELF-GENERATING BATTERY, THERMOSTATIC MIXING VALVE, GRID STRAINER	1/2"	1/2"	--	--	
DF-1	ADA WALL HUNG BI-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLING STATION	ELKAY	EXSTLDDWSVRLK	--	1/2"	--	2"	1-1/2"	3, 4
SH-1	48"x36" SHOWER BASE	AQUATIC	SB4836	WHITE CERAMIC BASE CENTER DRAIN 3" THRESHOLD, SHOWER VALVE: SV-1	--	--	2"	1-1/2"	8
SH-2	36"x36" SHOWER BASE	AQUATIC	SB3636	WHITE CERAMIC BASE CENTER DRAIN 3" THRESHOLD, SHOWER VALVE: SV-1	--	--	2"	1-1/2"	8
SV-1	SINGLE LEVER PRESSURE BALANCE SHOWER FAUCET	DELTA	T13H133	1.75 GPM CHROME FINISH SHOWER VALVE	1/2"	1/2"	--	--	11
FD-1	7" ROUND FLOOR DRAIN	WADE	1100STD	NICKEL BRONZE STRAINER DEEP SEAL TRAP	--	--	--	--	
FS-1	8" SQUARE FLOOR SINK	ZURN	Z-415	6-1/4" DEEP BODY, ENAMELED INTERIOR, SEDIMENT BUCKET, NICKEL BRONZE RIM AND GRATE	--	--	--	--	
		SMITH	2005						
TD-1	TRENCH DRAIN	WADE	9110	6" WIDE POLYPROPYLENE CHANNEL w/COATED STEEL FRAME RADIUSUED BTM 9870-462-DGC DUCTILE IRON SLOTTED...	--	--	--	4"	16
		ZURN	Z-1910						
TD-2	MINI-TRENCH DRAIN	SMITH	3100	6" WIDE, 12" LONG, CAST IRON WITH BOTTOM OUTLET, DOME STRAINER, SLOTTED GRATE	--	--	--	--	
TD-3	LAUNDRY TRENCH DRAIN			POLYPROPYLENE BODY AND LID	--	--	2"	--	
		H-M COPMANY	DRAIN TROUGH						
LT-1	SMALL BASKET-STYLE SOLIDS INTERCEPTOR	STRIEM	AA-S	OMIT ALL SCREENS AND STRAINERS 12" WIDE x 12" DEEP, SIDE OUTLET 35 GPM, POLYETHYLENE 1/8" DIAMETER SCREEN PERFORATIONS,	--	--	2"	--	

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ELECTRICAL MASTER SYMBOLS LEGEND				
STANDARD MOUNTING HEIGHTS	LIGHTING	WIRING DEVICES & OUTLETS	NURSE CALL	ELECTRICAL ONE-LINE & RISER DIAGRAM
CONTROLS (TOP OF DEVICE) RECEPTACLES RECEPTACLES (EXTERIOR) RECEPTACLES (GARAGES) RECEPTACLES (ABOVE COUNTER) RECEPTACLES IN EQUIPMENT ROOMS DATA OUTLETS TELEVISION OUTLETS	48" 18" 24" 24" 4" ABOVE BACKSPLASH/COUNTER 44" SAME AS ADJACENT DEVICE UNO REFER TO ARCH DRAWINGS	CIRCUIT DESIGNATION AS FOLLOWS: LP-1 - 5 LP-1 = ASSOCIATED PANEL 5 = CIRCUIT SIMPLEX RECEPTACLE DUPLX RECEPTACLE GFCI DUPLX RECEPTACLE DOUBLE DUPLX RECEPTACLE DOUBLE DUPLX 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/DUPLX WP = WEATHER PROOF COVER WR = WEATHER RESISTANT TR = TAMPER RESISTANT TV = TELEVISION 60" = MOUNTING HEIGHT TO CENTER OF DEVICE	NCMS NURSE CALL MASTER STATION NCA NURSE CALL ANNUNCIATION PANEL SL S NURSE CALL SWITCH PANEL W SL NURSE CALL ROOM STATUS CORRIDOR LIGHT - WALL MOUNT C SL NURSE CALL ROOM STATUS CORRIDOR LIGHT - CEILING MOUNT W N NURSE CALL CORRIDOR LIGHT - WALL MOUNT C N NURSE CALL CORRIDOR LIGHT - CEILING MOUNT N 1 NURSE CALL PATIENT STATION - SINGLE CALL CORD N 2 NURSE CALL PATIENT STATION - DOUBLE CALL CORD N D NURSE CALL DUTY STATION N E NURSE CALL EMERGENCY STATION - PULL CORD N PB NURSE CALL EMERGENCY STATION - PUSH BUTTON N CB NURSE CALL CODE BLUE STATION	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)
ANNOTATIONS	LIGHTING CONTROL DEVICES	FIRE ALARM DEVICES	SECURITY	COMMUNICATION
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	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	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		
ABBREVIATIONS	POWER EQUIPMENT			
AD ACCESS DOOR AF AMPERE FRAME SIZE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHJ AUTHORITY HAVING JURISDICTION AIC AMPERE INTERRUPTING CAPACITY AS AMPERE SWITCH AT AMPERE TRIP SETTING ATS AUTOMATIC TRANSFER SWITCH C CONDUIT CKT CIRCUIT CT CURRENT TRANSFORMER DEMO DEMOLITION EC ELECTRICAL CONTRACTOR EM EMERGENCY FCA FAULT CURRENT AMPS AVAILABLE FLA FULL LOAD AMPS GC GENERAL CONTRACTOR GEC GROUNDING ELECTRODE CONDUCTOR G GROUND MCA MINIMUM CIRCUIT AMPACITY MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MGB MAIN GROUNDING BUSBAR MLO MAIN LUGS ONLY MOCP MAXIMUM OVERCURRENT PROTECTION N/A NOT APPLICABLE NF NON-FUSED NL NIGHT LIGHT (24 HR ON) P POLE PHØ PHASE PNLBD PANELBOARD PROVIDE FURNISH AND INSTALL PT POTENTIAL TRANSFORMER QTY QUANTITY RCPT RECEPTACLE RLA RUNNING LOAD AMPS SCCR SHORT CIRCUIT CURRENT RATING SD SMOKE DETECTOR SF SQUARE FEET SPD SURGE PROTECTION DEVICE ST SHUNT TRIP SWBD SWITCHBOARD SWGR SWITCHGEAR TBB TELECOMMUNICATIONS BONDING BACKBONE TGB TELECOMMUNICATIONS GROUND BUSBAR TMGB TELECOMMUNICATIONS MAIN GROUND BUSBAR UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SUPPLY VD VOLTAGE DROP VFD VARIABLE FREQUENCY DRIVE W WIRE	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.	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		
LINETYPE LEGEND	HOME RUN CONDUIT CONDUIT TURNING UP CONDUIT TURNING DOWN			

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. 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.
- P. 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.
- Q. GROUND FAULT INTERRUPTER RECEPTACLES SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.8 OF THE 2017 NEC.
- R. ARC FAULT INTERRUPTER PROTECTION SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.12 OF THE 2017 NEC.
- S. 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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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

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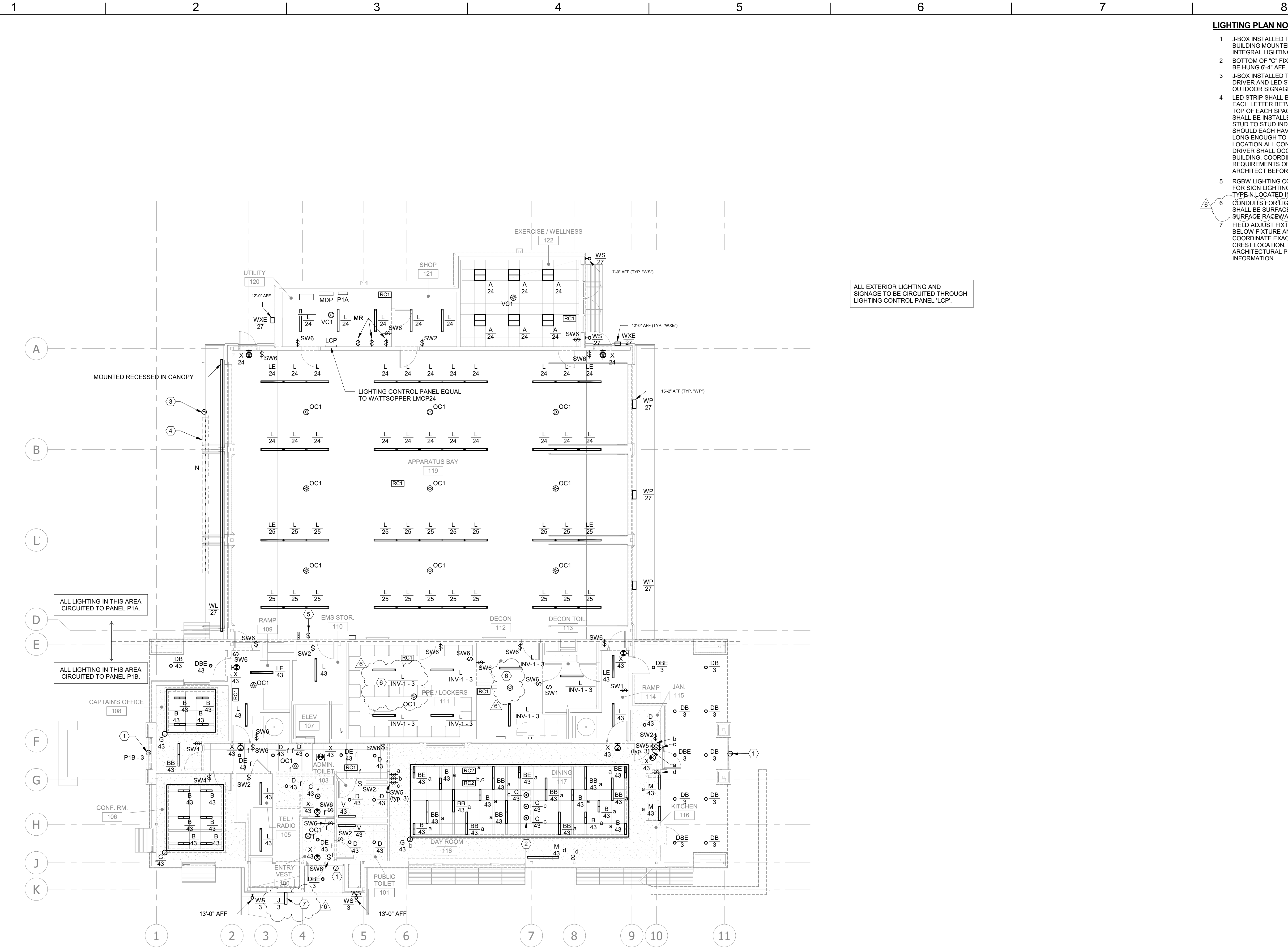
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**ELECTRICAL
SYMBOLS
LEGEND**

E001

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E
D
C
B
J
A



A1 FIRST FLOOR LIGHTING RCP
1/8" = 1'-0"
0 4' 8' 16'

- LIGHTING PLAN NOTES:**
- J-BOX INSTALLED TO PROVIDE POWER FOR BUILDING MOUNTED SIGNAGE WITH INTEGRAL LIGHTING.
 - BOTTOM OF "C" FIXTURES IN DINING SHALL BE HUNG 6'-4" AFF.
 - J-BOX INSTALLED TO PROVIDE POWER TO DRIVER AND LED STRIP LIGHTS FOR OUTDOOR SIGNAGE LIGHTING.
 - 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.
 - RGBW LIGHTING CONTROLLER STATION FOR SIGN LIGHTING. TO CONTROL FIXTURE TYPE-N LOCATED IN CANOPY.
 - CONDUITS FOR LIGHTING AND CONTROLS SHALL BE SURFACE MOUNTED WITH SURFACE RACEWAY-THIS ROOM.
 - 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'.

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FIRST FLOOR
LIGHTING RCP

E101

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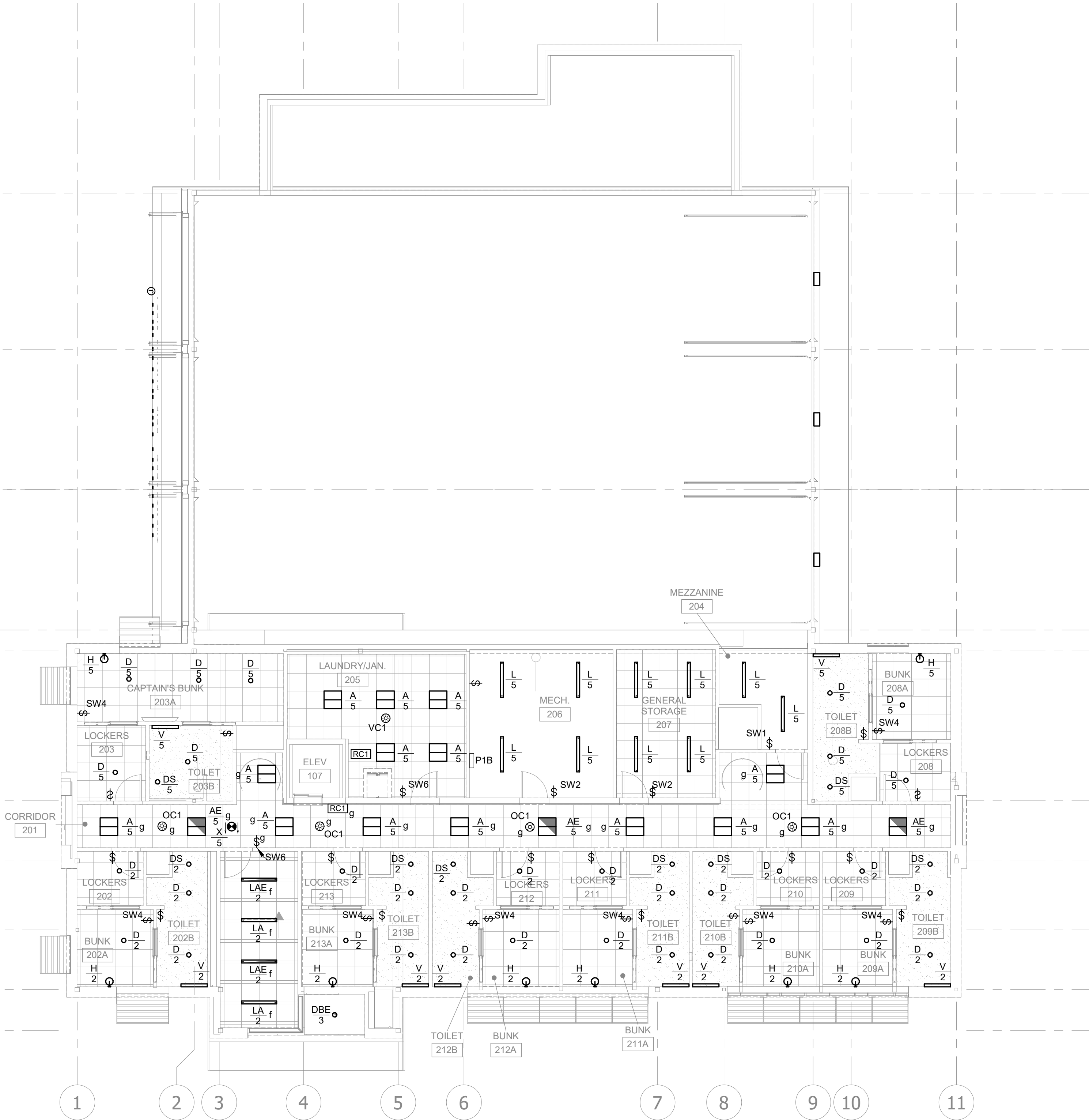
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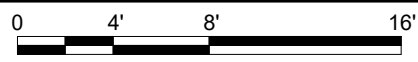
SECOND FLOOR
LIGHTING RCP

E102

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



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ELECTRICAL PLAN NOTES:

- 1 REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR AIR-VAC SYSTEM DETAILS.
- 2 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.
- 3 J-BOX INSTALLED FOR POWER TO AUTOMATIC GARAGE DOOR. COORDINATE EXACT LOCATION WITH GARAGE DOOR MOTOR INSTALLATION.
- 4 RECEPTACLE INSTALLED UNDER COUNTER FOR DISHWASHER. ROUTE HOMERUN BELOW SLAB TO NEAREST WALL, THEN UP TO ABOVE CEILING.
- 5 GFCI RECEPTACLE INSTALLED IN ELEVATOR PIT.
- 6 J-BOX INSTALLED FOR ELEVATOR LIGHTING.
- 7 GARAGE DOOR CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH IN.
- 8 PROVIDE RED COLORED RECEPTACLE FOR EMERGENCY. POWERED FROM THE INVERTER.
- 9 MOUNT TV RECEPTACLE IN WALL FURRING.
- 10 240V/2P/30A FUSIBLE DISCONNECT IN NEMA 1 ENCLOSURE. PROVIDE FUSES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- 11 AIR-VAC SYSTEM CONTROLLER. REFER MECH.
- 12 PROVIDE GROUNDING BAR IN TEL/RADIO. REFER TO SPECIFICATIONS AND DETAILS FOR MORE INFORMATION.
- 13 MULTI-GAS DETECTION SYSTEM. REFER MECH.
- 14 VF-1 FAN CONTROLLER, REF. MECH.
- 15 TYPE A: SINGLE GANG RECEPTACLE FLOOR BOX. REFER TO SPECS.
- 16 STORM SHELTER INVERTER, REFER TO SPECS.
- 17 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.
- 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 ES12R2GF1, 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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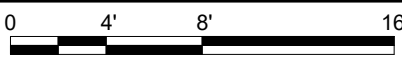
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**FIRST FLOOR
POWER PLAN**

E201

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



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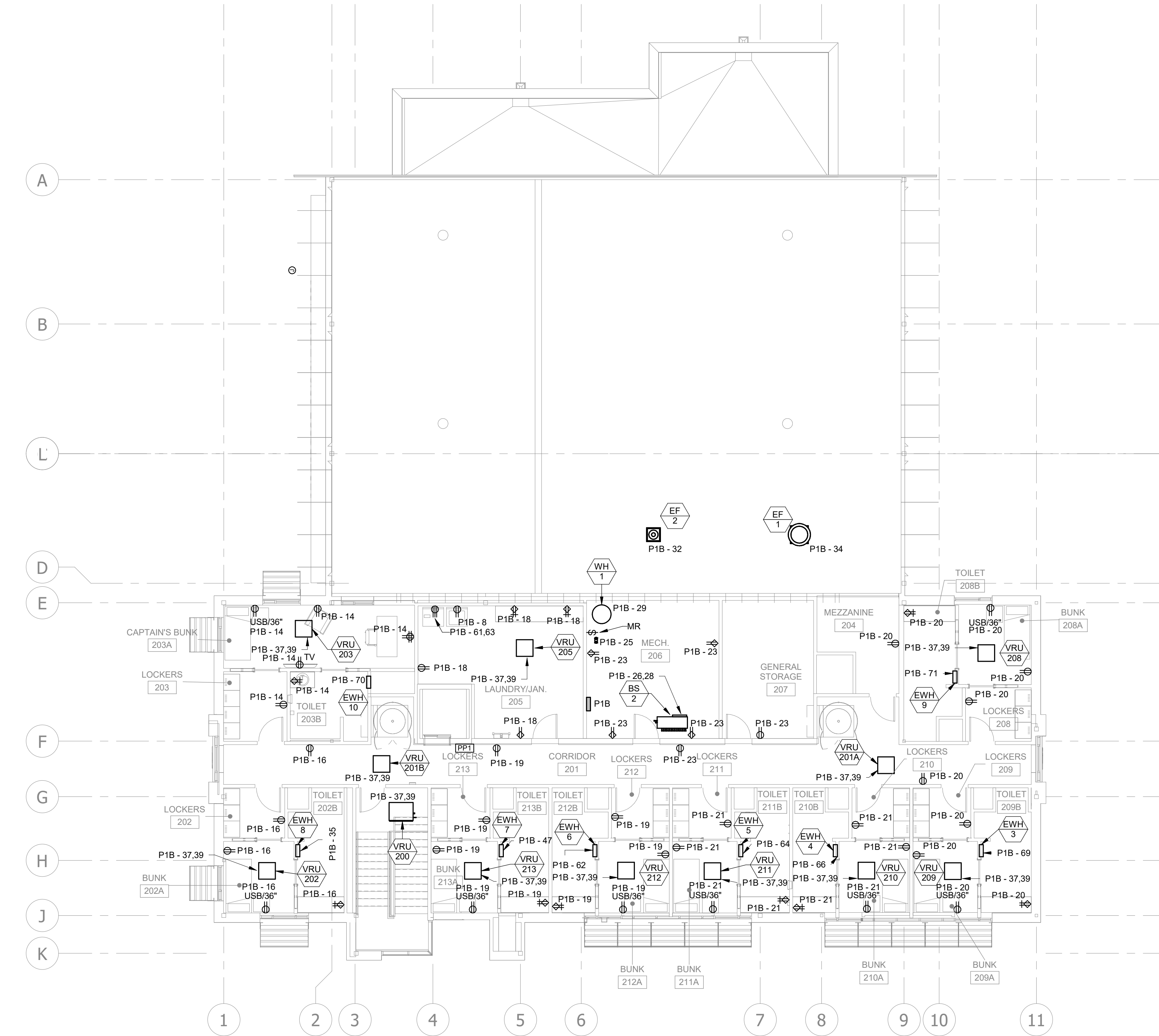
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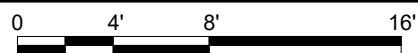
C

B

A



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



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FIRE STATION #4
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DATE:	10.19.2022
DRAWN BY:	JL
CHK'D BY:	NB

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SECOND FLOOR
POWER PLAN

E202

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ELECTRICAL PLAN NOTES:

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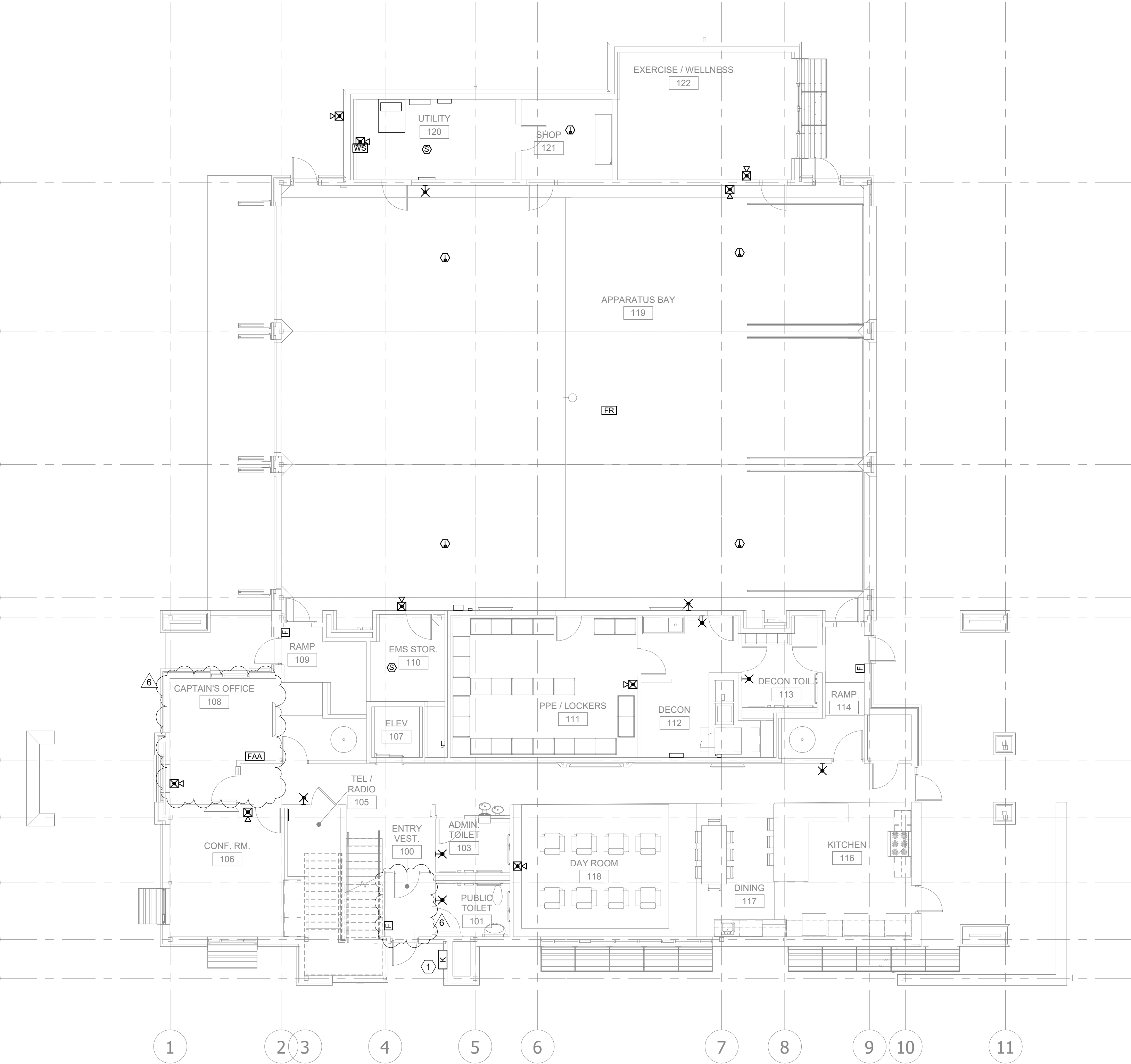
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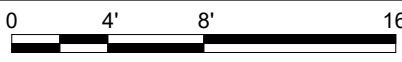
**FIRST FLOOR
FIRE ALARM
PLAN**

E401

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



FILE PATH: BIM 360://182252R21001_LeeSummitFireStation_#4 and #5/LSMO_FIRE STATIONS MEP_V19.rvt

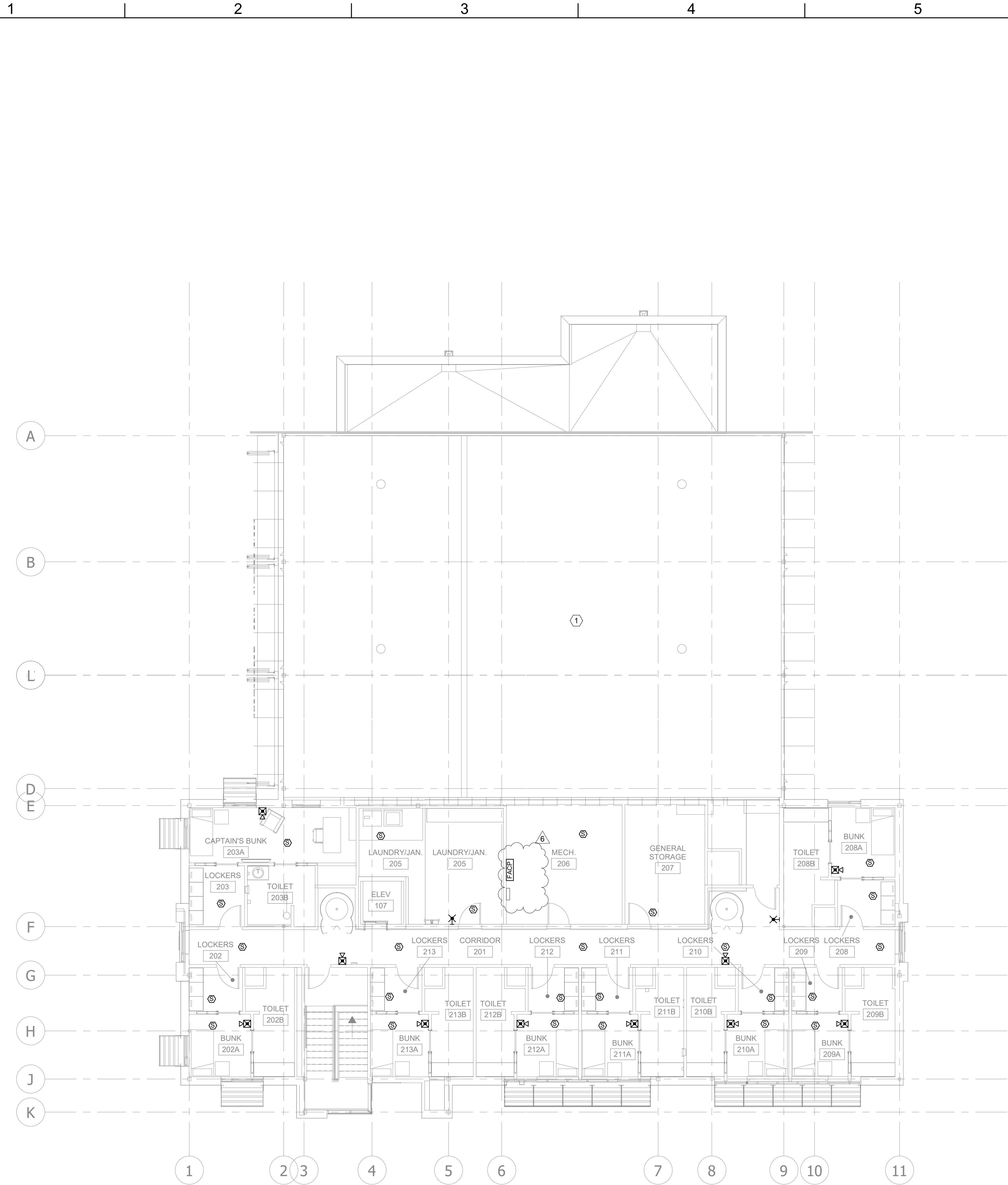
E

D

C

B

A



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



ELECTRICAL PLAN NOTES:

1

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SECOND FLOOR
FIRE ALARM
PLAN

E402

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	SYSTEM INPUTS			SYSTEM OUTPUTS		
	SIGNAL	NOTIFICATION	HVAC	SIGNAL	NOTIFICATION	HVAC
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		●				
ALARM	●	●	●			
SUPERVISORY	●	●	●			
TROUBLE	●	●	●			
REPORT TO FIRE ALARM CONTROL PANEL	●	●	●			
SIGNAL SUPERVISING STATION	●	●	●			
ACTIVATE GENERAL FIRE ALARM	●	●	●			
SHUTDOWN ASSOCIATED FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION DEVICES	●	●	●			
SHUTDOWN ALL FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT	●	●	●			
SHUTDOWN ALL FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT FOR AFFECTED HVAC SYSTEM	●	●	●			
CLOSE ASSOCIATED SMOKE DAMPER	●	●	●			

A6 FIRE ALARM SEQUENCE OF OPERATIONS
NOT TO SCALE

FILE PATH: BIM 360://18225R21001_LessSummitFireStation_#4 and #5/LSMO FIRE STATIONS MEP_V19.rvt

E

D

C

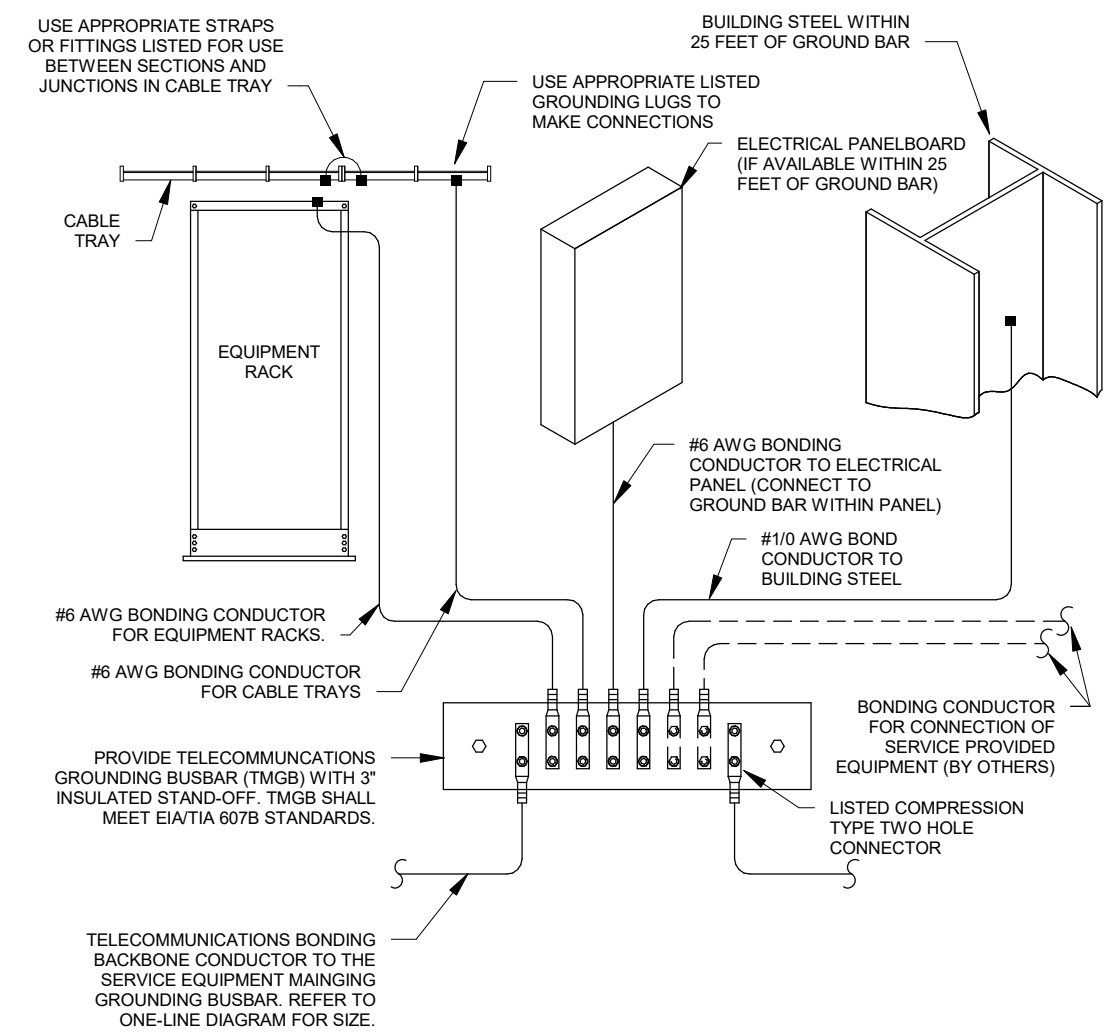
B

A

B1

CONDUIT PENETRATION THROUGH FLOOR

NOT TO SCALE



A1

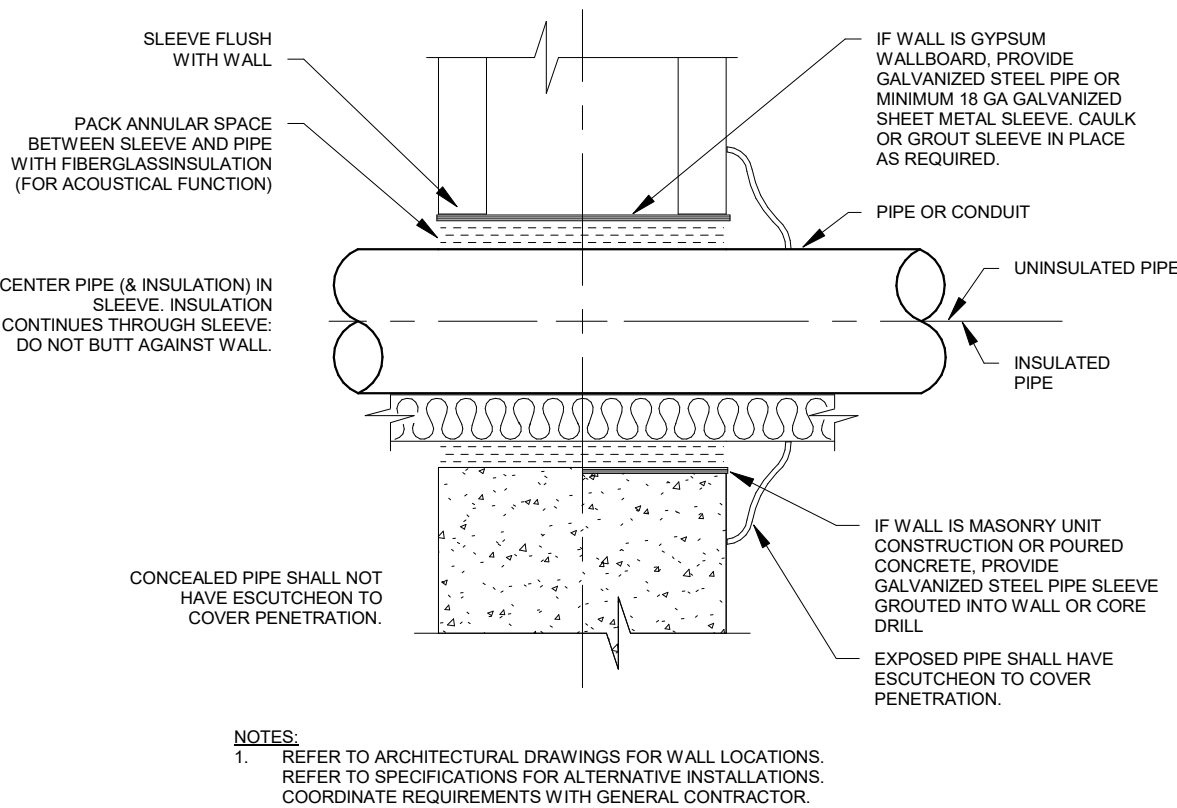
TMGB CONNECTION DETAIL

NOT TO SCALE

B2

CONDUIT PENETRATION THROUGH NON-FIRE RATED WALL

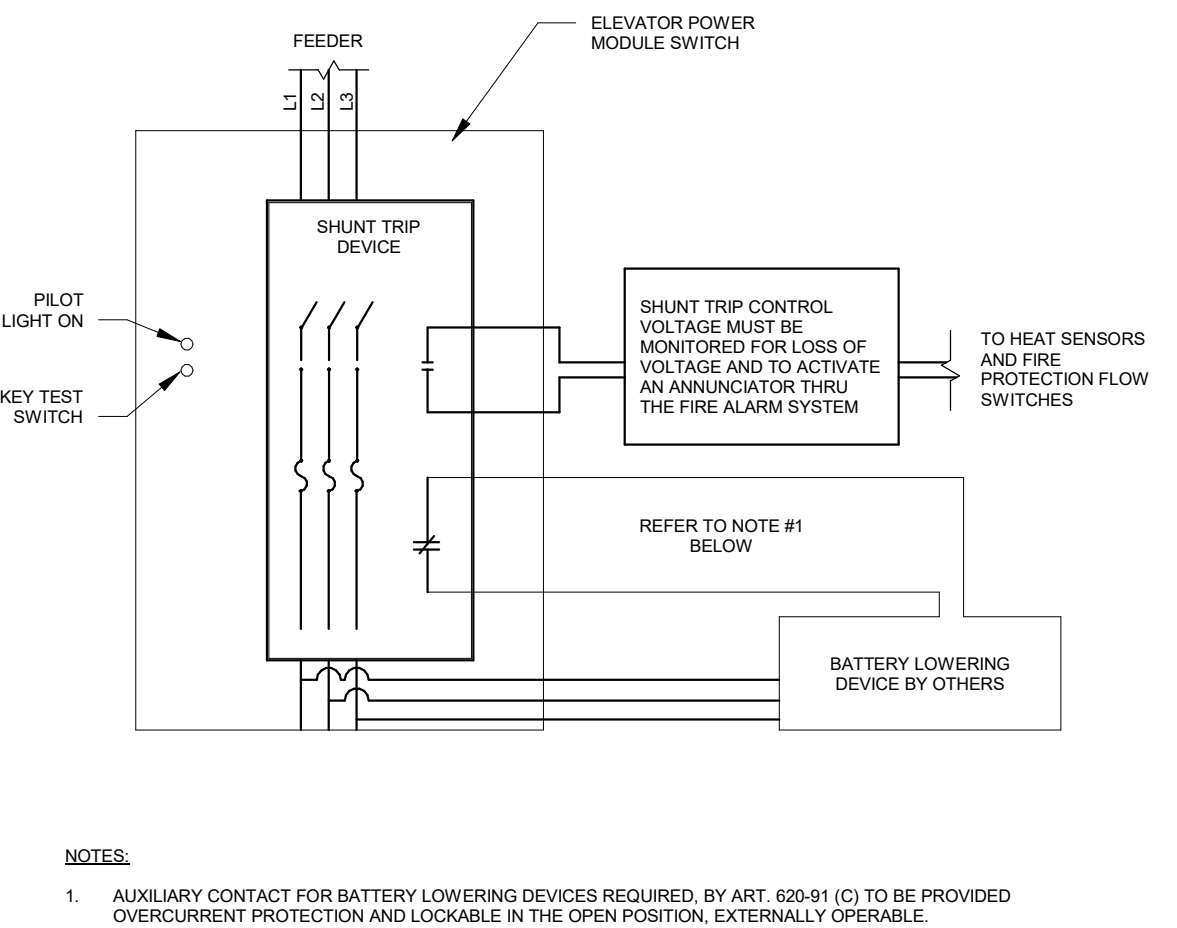
NOT TO SCALE



A2

ELEVATOR SHUNT TRIP DEVICE WIRING DIAGRAM

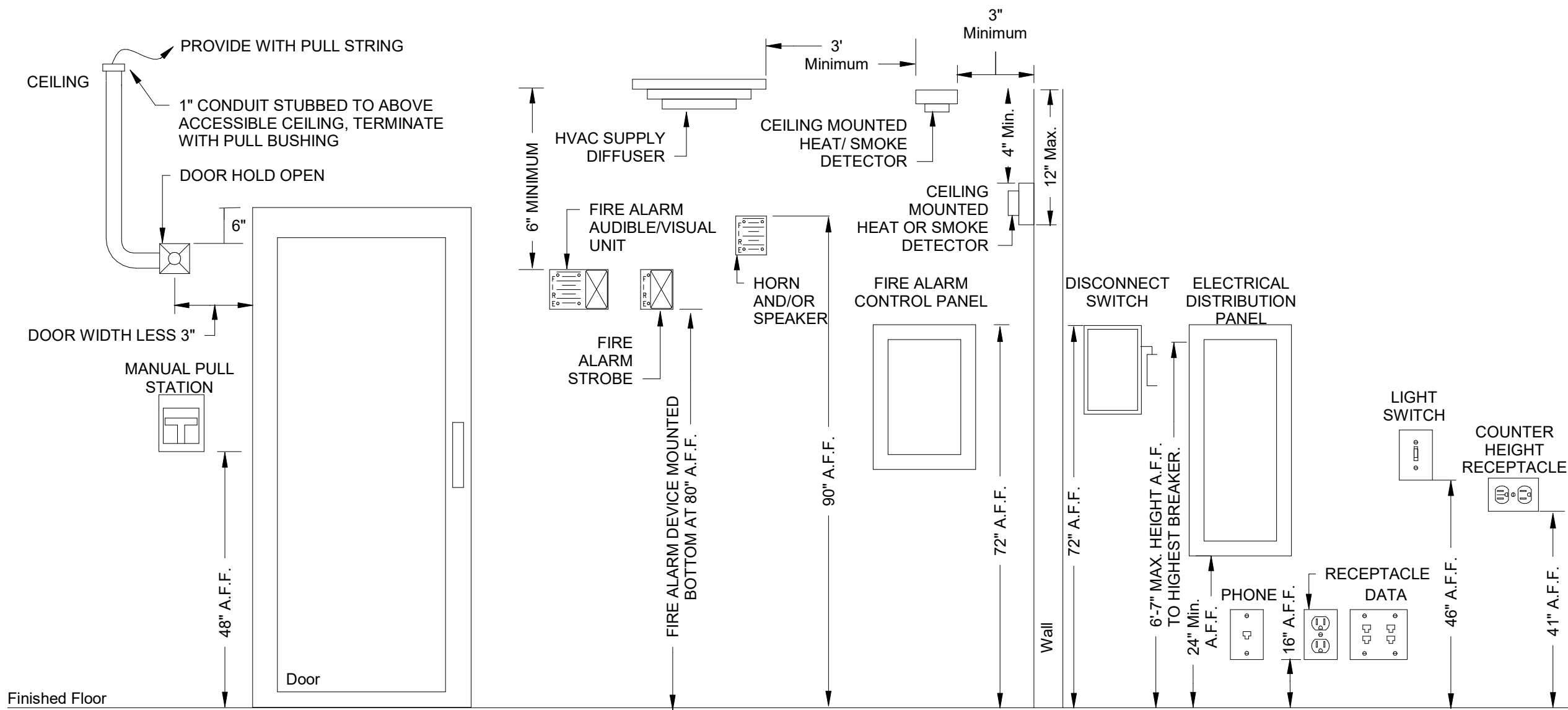
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C4

STANDARD MOUNTING HEIGHTS

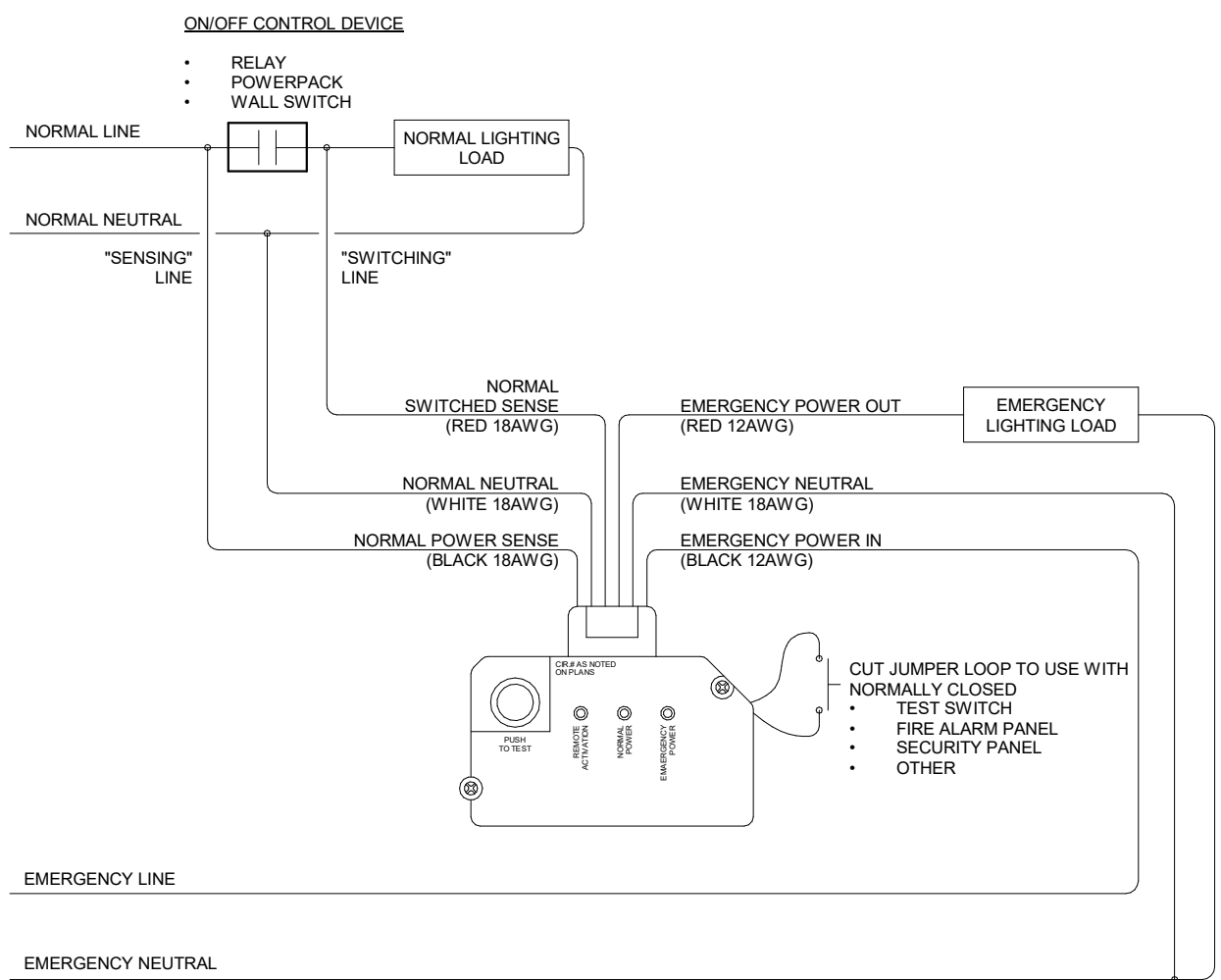
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B4

DISCONNECT LABELING

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A4

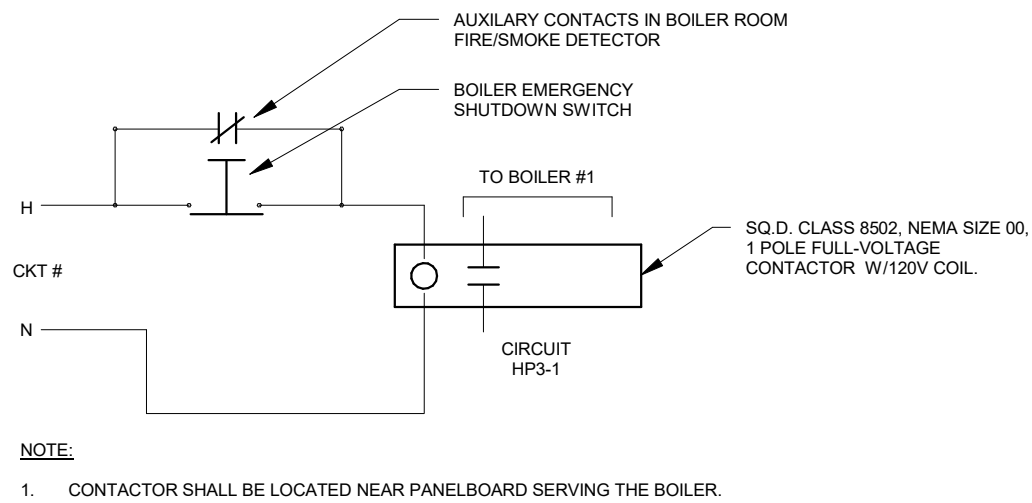
EMERGENCY LIGHTING CONTROL UNIT WIRING DIAGRAM

NOT TO SCALE

B6

EMERGENCY BOILER SHUTDOWN DETAIL

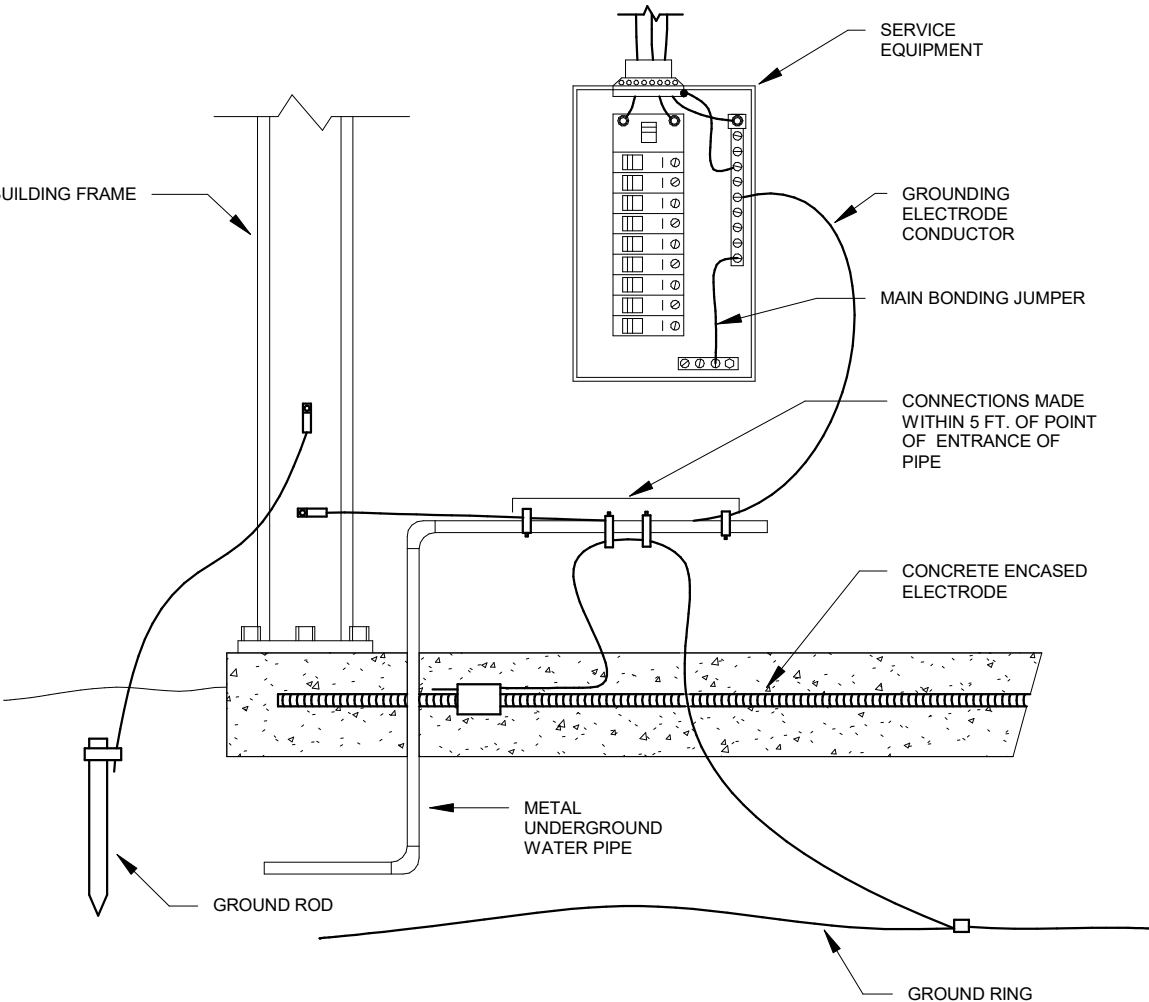
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A6

GROUNDING ELECTRODE SYSTEM

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ELECTRICAL DETAILS

E501

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NEIL P. BARTLEY
NUMBER
PE-2007023868

PROFESSIONAL ENGINEER

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E502

LIGHTING DEVICE SCHEDULE

DEVICE TAG	MANUFACTURER	MODEL	DESCRIPTION	DIMMING	ON MODE	SENSOR TYPE	TIME DELAY	MAX LOAD	MOUNTING TYPE	VOLTAGE	NOTES
AUXILIARY DEVICES											
RC1	WATTSTOPPER	LMRC-10X	2 ZONE CEILING PLENUM ROOM CONTROLLER	--				20 A	PLENUM	120	
RC2	WATTSTOPPER	LMRC-11X	2 ZONE CEILING PLENUM ROOM CONTROLLER WITH DIMMING CAPABILITIES	0-10V				10 A	PLENUM	120	
CEILING-MOUNTED OCCUPANCY SENSOR											
OC1	WATTSTOPPER	DT-300	LOW VOLTAGE CEILING MOUNTED DUAL TECH SENSOR IN OCCUPANCY MODE		AUTO-ON		30 MIN		CEILING	24	
VC1	WATTSTOPPER	DT-300	LOW VOLTAGE CEILING MOUNTED DUAL TECH SENSOR IN VACANCY MODE		MANUAL-ON		30 MIN		CEILING	24	
OCCUPANCY SENSOR SWITCH											
SW1	WATTSTOPPER	DW-100	LINE VOLTAGE SWITCH WITH INTERGRAL DUAL TECH SENSOR IN OCCUPANCY MODE	--	AUTO-ON		30 MIN	20 A	WALL	120	4
SW2	WATTSTOPPER	DW-100	LINE VOLTAGE SWITCH WITH INTERGRAL DUAL TECH SENSOR IN VACANCY MODE	--	MANUAL-ON		30 MIN	20 A	WALL	120	4
SW4	WATTSTOPPER	DW-311	LINE VOLTAGE SWITCH WITH INTERGRAL DUAL TECH SENSOR IN VACANCY MODE WITH DIMMING CAPABILITIES	0-10V	MANUAL-ON		30 MIN	20 A	WALL	120	2
WALL SWITCHES											
SW5	WATTSTOPPER	LMSW-105	LOW VOLTAGE WALL SWITCH WITH DIMMING CAPABILITIES (5 BUTTON)	0-10V					WALL	24	1
SW6	WATTSTOPPER	LMSW-102	LOW VOLTAGE ON/OFF WALL SWITCH (2 BUTTON)	--					WALL	24	3

GENERAL CONTROL NOTES:

- 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.

GENERAL NOTES:

- 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 CORRIDORS SHALL BE SET TO EXTENDED CORRIDOR DETECTION.

NOTES:

1. THIS SWITCH SHALL BE PROGRAMED WITH THE FOLLOWING SCENES. COORDINATE FINAL SCENE 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 FINAL SCENE 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 FINAL SCENE WITH OWNER PRIOR TO COMMISSIONING:
- BUTTON 1: ALL ON
 - BUTTON 2: ALL OFF
4. THIS SWITCH SHALL BE PROGRAMED WITH THE FOLLOWING SCENES. COORDINATE FINAL SCENE WITH OWNER PRIOR TO COMMISSIONING:
- BUTTON 1: ALL ON/OFF

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 EMERGENCY BACKUP 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	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 EMERGENCY BACKUP 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	VISTA LIGHTING	1188-B-NS-35-C-MV-CX-ND-B34		LED	3000	3000 K	85	--	IN-GRADE	120	37	41	CAST-IN PLACE IN-GRADE LIQUID TIGHT FLAGPOLE FIXTURE	2,4,7
F2	HYDREL	M9410C-A-LED-P1-40K-MVOLT-WWD-R-LCSR-12B-LSF-LDIM-DNA		LED	1262	3000 K	80	--	IN-GRADE	120	11	12	CAST-IN PLACE IN-GRADE LIQUID TIGHT WALL WASH FIXTURE	2,13
G	ACCLAIM LIGHTING	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	1,2,12
L	HE WILLIAMS	75L-4-L38/830-DMA-ACF-DIM-UNV		LED	3800	3000 K	80	0-10V	SUSPENDE D	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	SUSPENDE D	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	SUSPENDE D	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	SUSPENDE D	120	31	35	4' LENSED SUSPENDED STRIP FIXTURE WITH EMERGENCY BACKUP BATTERY	
M	TASK LIGHTING	SA9Q-F30		LED	200	3000 K	80	0-10V	SURFACE	120	2	2	UNDERCABINET LINEAR FIXTURE. LUMENS PER FOOT, WATTS PER FOOT.	
N	KELVIX	RGBW-1-WR-24V		LED	425		90	0-10V	SURFACE	120	96	96	COLOR CHANGING LIGHTING FOR SIGN LETTERS	11
S1	LITHONIA	DSX1 LED P4 30K T4M MVOLT		LED	13165	3000 K	80	--	POLE	120	125	139	POLE MOUNTED SITE LIGHTING FIXTURE	
S2	LITHONIA	DSX1 LED P4 30K T4M MVOLT HS		LED	13165	3000 K	80	--	POLE	120	125	139	POLE MOUNTED SITE LIGHTING WITH BACKLIGHT SHEILD FIXTURE	2,10
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	ML3WLAS-Y-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

NOTES:

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 6'-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. POLE MOUNT FIXTURE AT 25'-0" ABOVE GRADE.
11. PROVIDE FIXTURES WITH CH-409-WH ALUMINUM MOUNTING CHANEL WITH LENS, HLV96 90W INTERIOR RATED DRIVER (2 REQUIRED), AND RFC-A-RGBW-3S-IW-W WALL CONTROLLER. CONTRACTOR SHALL VERIFY LENGTHS REQUIRED WITH ARCHITECT AND STRUCTURAL FRAMING. TWO DRIVERS REQUIRED SPLIT TOTAL LENGTH OF LED LIGHTING EVENLY BETWEEN THE TWO.
12. MOUNT FIXTURE 8'-0" ABOVE FINISHED GRADE.
13. MOUNT FIXTURE CENTERED ON THE WALL 3'-0" FROM THE FACE.

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.

REVISIONS:		
#	Description	Date
5	AS: 01	11/16/2022
6	AS: 06	02/22/2023

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



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FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100% CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
5	AS: 01	11/16/2022
6	AS: 06	02/22/2023



NEIL BARTLEY - ENGINEER
MO# PE-2007023868

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PROJECT NO: 18225R21001

DATE: 10.19.2022

DRAWN BY: JL

CHK'D BY: NB

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ELECTRICAL
SCHEDULES

E600

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E

D

C

B

A

PANELBOARD: P1A																							
LOCATION: COMPR 121							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	8	10		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	8	10		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	8	10		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 /...

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																	
LOCATION: PERSONNEL...							VOLTS/PHASE 208Y/120V, 3Ph, 4W							EQUIPMENT GROUND BUS			
FED FROM: MDP							MIN AIC RATING: 10 kAIC										
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			683	268		1	20 A		INV-1	4	
5	SECOND FLOOR LIGHTING				20 A	1						1	20 A		ICE MACHINE	6	
7	CAPTAIN OFFICE RECEPTACLES				20 A	1	1440	750				1	20 A		RECEPTACLE MECH. 205	8	
9	CONF. ROOM RECEPTACLES				20 A	1			1440	1260		1	20 A		TOILET/EMS STOR....	10	
11	TEL/RADIO/RAMP RECEPTACLES				20 A	1				1060	540	1	20 A		DAY ROOM RECEPTACLES	12	
13	RECEPTACLE DAY ROOM 117				20 A	1	540	1080				1	20 A		CAPTAN BUNKS RECEPTACLES	14	
15	KITCHEN/JAN/RAMP...				20 A	1			900	900		1	20 A		BUNK 202 RECEPTACLES	16	
17	KITCHEN RANGE CONTROLS				20 A	1				180	720	1	20 A		LAUNDRY 205 RECEPTACLES	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	HWH 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				777	2867	--	--	--	--	--	42
43	FIRST FLOOR LIGHTING				20 A	1	1163	1500				1	20 A		WASHING MACHINE	44	
45	LOCKER ROOM RECEPTACLES				20 A	1			900	1873		2	30 A		10	10	46
47	SUPPLEMENTAL HEATING RR				20 A	1				1500	1873	--	--	--	--	--	48
49	FIRE ALARM CONTROL PANEL				20 A	1	300	1500				1	20 A		MICROWAVE	50	
51	RCPT. KITCHEN				20 A	1			360	180		1	20 A		RCPT. KITCHEN	52	
53											1680	1	20 A		MICROWAVE	54	
55	MISCELLANEOUS STAIR 200				20 A	1	1200	360				1	20 A		RECEPTACLE ADMIN...	56	
57	RCPT. KITCHEN				20 A	1			180	360		1	20 A		RECEPTACLE ADMIN...	58	
59	RECEPTACLE JAN. 104				20 A	1				180	720	1	20 A		RCPTS. DAY ROOM	60	
61	DRYER LAUNDRY 205	10	10		30 A	2	1440	400				1	20 A		KITCHEN RANGE HOOD	62	
63	--	--	--	--	--	--			1440	1500		1	20 A		BATHROOM HEATER	64	
65	DRYER DECON 112	10	10		30 A	2				1440	800	1	20 A		DISPOSER	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	750	1	20 A		REFRIGERATOR	72	
73	BATHROOM HEATER				20 A	1	1500									74	
75	BATHROOM HEATER				20 A	1			1500							76	
77	BATHROOM HEATER				20 A	1				1500						78	
79								0				--	--	--	--	SPD	80
81									0			--	--	--	--	--	82
83										0		--	--	--	--	--	84
TOTAL LOAD (VA):							25429 VA	23680 VA	25085 VA								
TOTAL AMPS:							214 A	197 A	211 A								
LOAD TYPE		CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES					PANELBOARD TOTALS							
EXISTING LOAD																	
COOLING			0%	0 VA													
HEATING			0%	0 VA													
LIGHTING		3244 VA	125%	4055 VA													
RECEPTACLES		20370 VA	75%	15185 VA													
MOTORS (125% OF LARGEST)		14953 VA	114%	17103 VA													
KITCHEN EQUIPMENT																	
MISCELLANEOUS		17370 VA	100%	17370 VA													
SUPPLEMENTAL HEAT		15000 VA	100%	15000 VA													
SIGNAGE																	

FILE PATH: BM 360//18252P21001_LeesSummitFireStation_#4 and #5/2150001291_LSMO FIRE STATIONS TECH_F19.rvt

MARK D. MAURER

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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"	36"
POWER CONDUIT 120A	-	48"	48"	48"	48"	48"
POWER CONDUIT 240A	-	RIGID	RIGID	RIGID	RIGID	RIGID
POWER CONDUIT 400A	-	RIGID	RIGID	RIGID	RIGID	RIGID

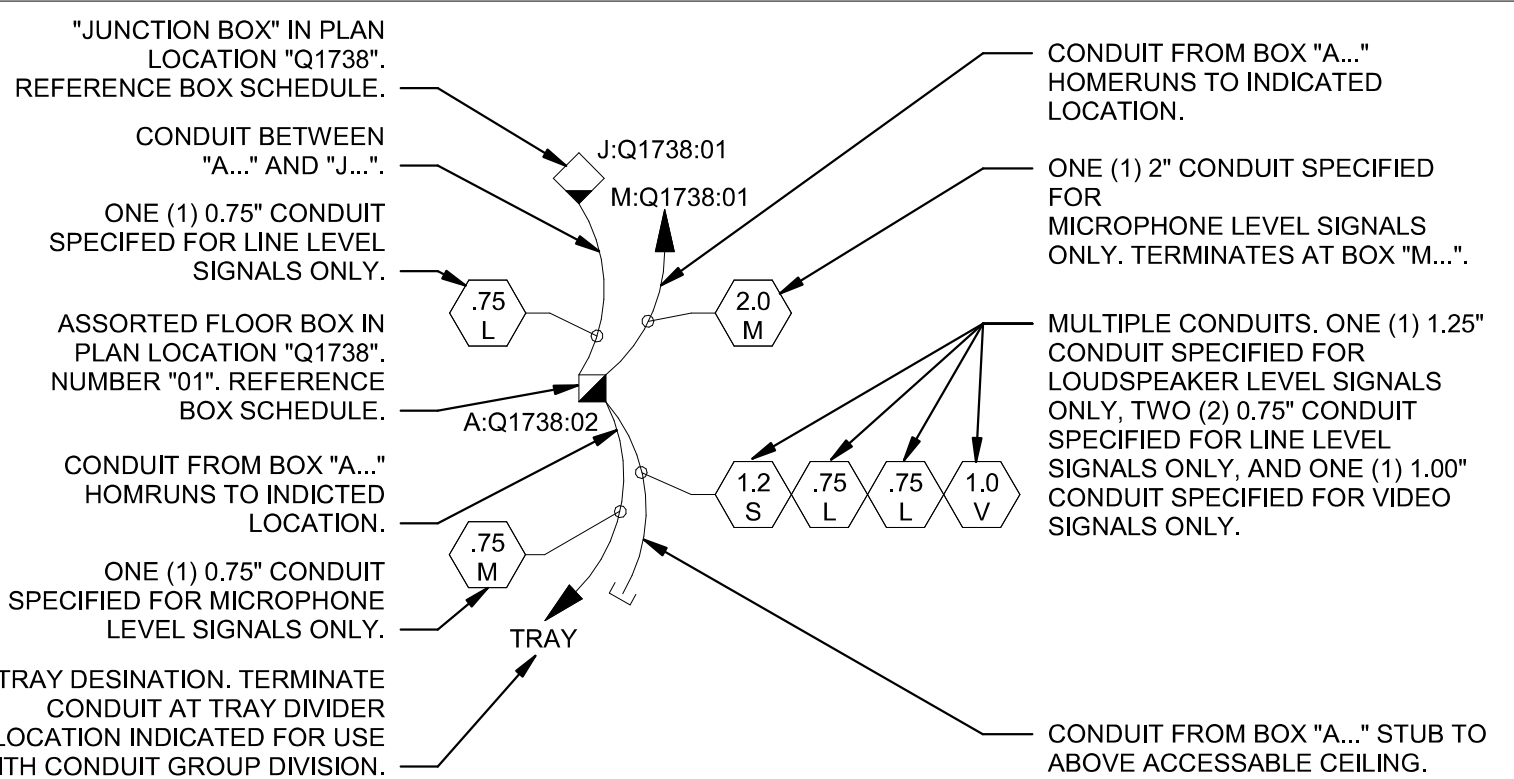
POWER IN RIGID

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.

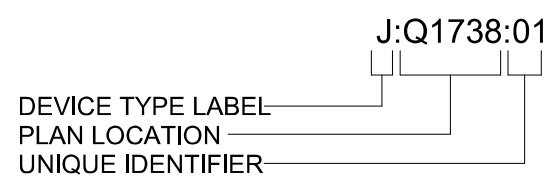
PLAN LEGEND

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.
NOTE: BLANK CELLS ON TYPICAL BOX SCHEDULE INDICATE INFORMATION PROVIDED ELSEWHERE.	
CONDUIT LEGEND	
	INDICATES ASSORTED SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	INDICATES LINE LEVEL SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	INDICATES MICROPHONE LEVEL SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	INDICATES PRODUCTION INTERCOM LEVEL SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	INDICATES LOUDSPEAKER LEVEL SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	INDICATES VIDEO SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.
	INDICATES WIRELESS/RF SIGNALS ONLY. "#" 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

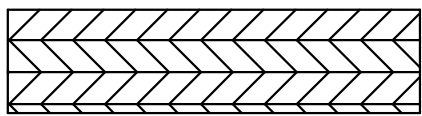
A	ASSORTED
B	BROADCAST
C	CONTROL
D	DSS SATELLITE
E	EXISTING
F	FUTURE / BY OTHERS
G	GAME CLOCK
J	JUNCTION / PULL BOX
K	CAMERA
L	LINE-LEVEL AUDIO
M	MICROPHONE-LEVEL AUDIO
P	PRODUCTION INTERCOM
R	EQUIPMENT RACK
S	LOUDSPEAKER-LEVEL AUDIO
T	TELEVISION DISTRIBUTION
V	VIDEO
W	WIRELESS / RF
DS	DIGITAL SIGNAGE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

LABEL STANDARD

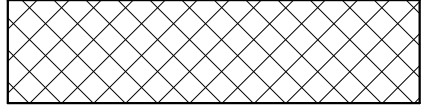


CALL OUTS

ENLARGED PLAN CALLOUT



NOT IN SCOPE



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LEMA YERICKSON WILL COX
ARCHITECTS
11250 ROGER BACON DRIVE, SUITE 16
RESTON, VIRGINIA 20190
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MISSOURI LANDSCAPE COA #000008
9229 WARD PARKWAY, SUITE # 210
KANSAS CITY, MO 64114
TEL: (816) 444-4200

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MISSOURI COA #000556
1801 MAIN STREET, SUITE 300
KANSAS CITY, MO 64108
(816) 963-8700

FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

#	Description	Date
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10/19/2022

PROJECT NO: 2150001291
DATE: 10.19.2022
DRAWN BY: J.ROSE
CHK'D BY: M.MAURER

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AUDIO-VIDEO
GENERAL NOTES

TA000

PLEASE CONSIDER THE ENVIRONMENT
BEFORE PRINTING THIS

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MARK D. MAURER

E

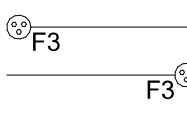
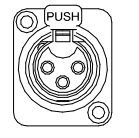
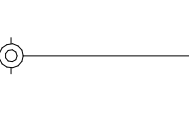
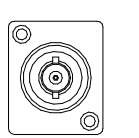
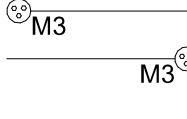
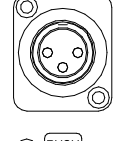


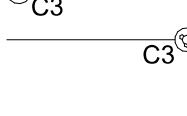
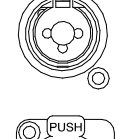

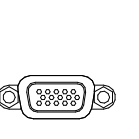
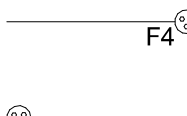
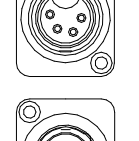
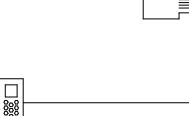
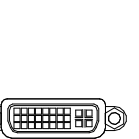
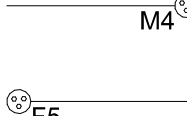
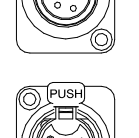
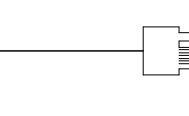

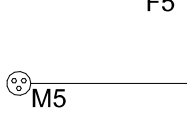
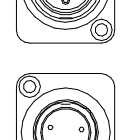
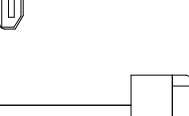


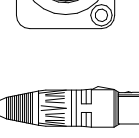

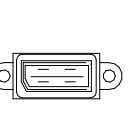
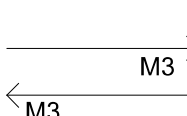
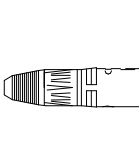
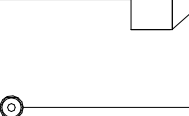
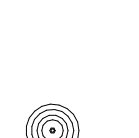

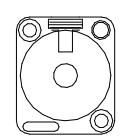
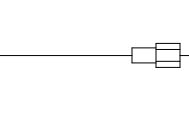

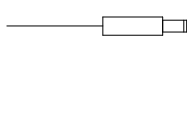
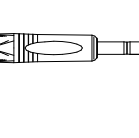



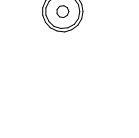

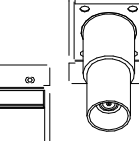
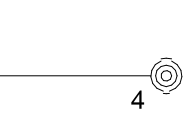
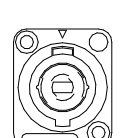
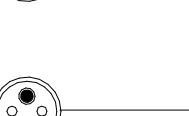
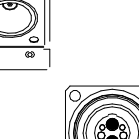
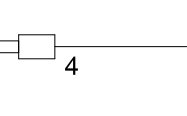
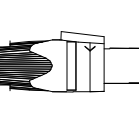
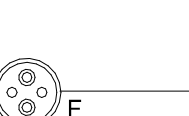
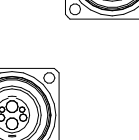
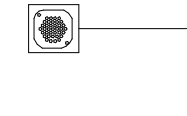
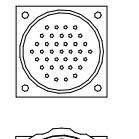

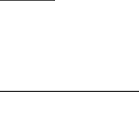
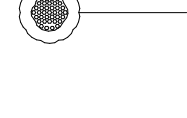
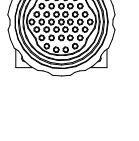

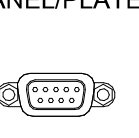


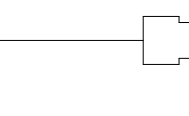



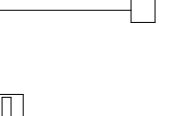
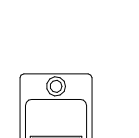
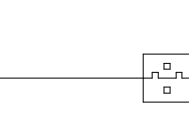
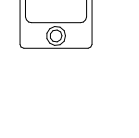
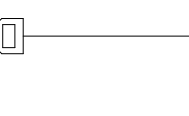
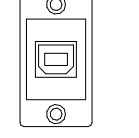

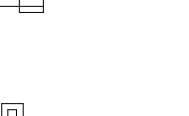
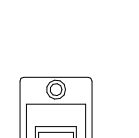

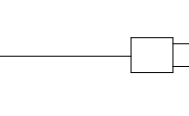
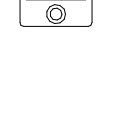



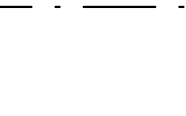







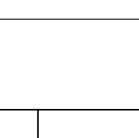
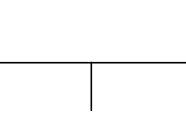



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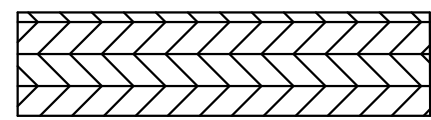
AUDIO-VIDEO SYMBOLS

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		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			

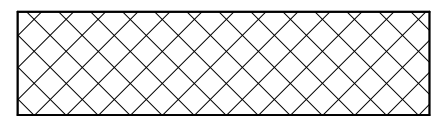
NOTE: PANEL & PLATE CONNECTORS ARE NOT SHOWN TO SCALE.

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
GPIO	GPIO/GPO/GPIO - GENERAL PURPOSE INPUT AND/OR OUTPUT	(NOTE 4)	
H	HDMI VIDEO/AUDIO SIGNAL	(NOTE 3)	
HOSDI	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

- 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
Y/S/V 1 Y/S/V 1/2	DEVICE IDENTIFICATION AND LABEL
M/L 1 St 1	
Y/S/V 2 Y/S/V 3	
M/L 2 St 2	SIGNAL TYPE (TYPICAL) SEE WIRE TYPE AND ABBREVIATIONS SCHEDULE
R/Y 3 R/Y/S/V 4	
St 1 St 3	
R/Y 4 DM 5	
St 2 DM 6	
R/Y 5 DM 7	
St 3 Cont Net	
DM 1 LS L	
DM 2 LS R	
USB Com A	
IR In Com B	
IO IR A	
IO IR B	
LAN CC 1	
Product Name/Model#	PRODUCT REFLECTING BASIS OF DESIGN



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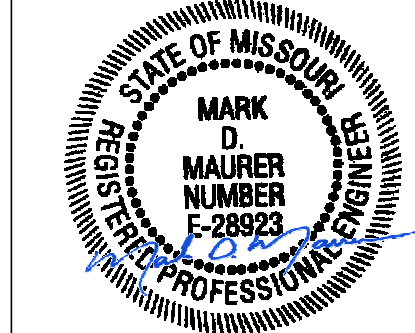
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REVISIONS:

#	Description	Date
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10/19/2022

PROJECT NO: 2150001291

DATE: 10.19.2022

DRAWN BY: J.ROSE

CHK'D BY: M.MAURER

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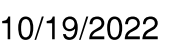
AUDIO-VIDEO
GENERAL
SYMBOLS

TA001

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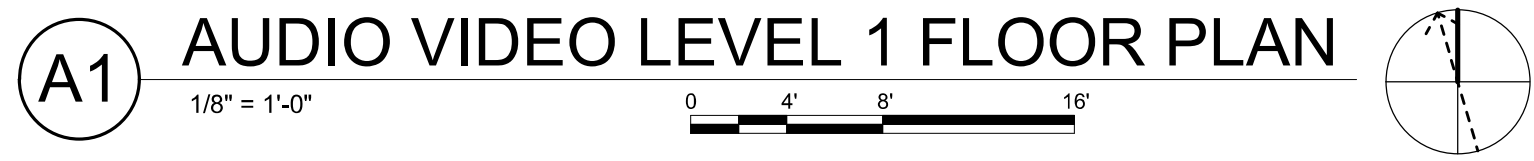
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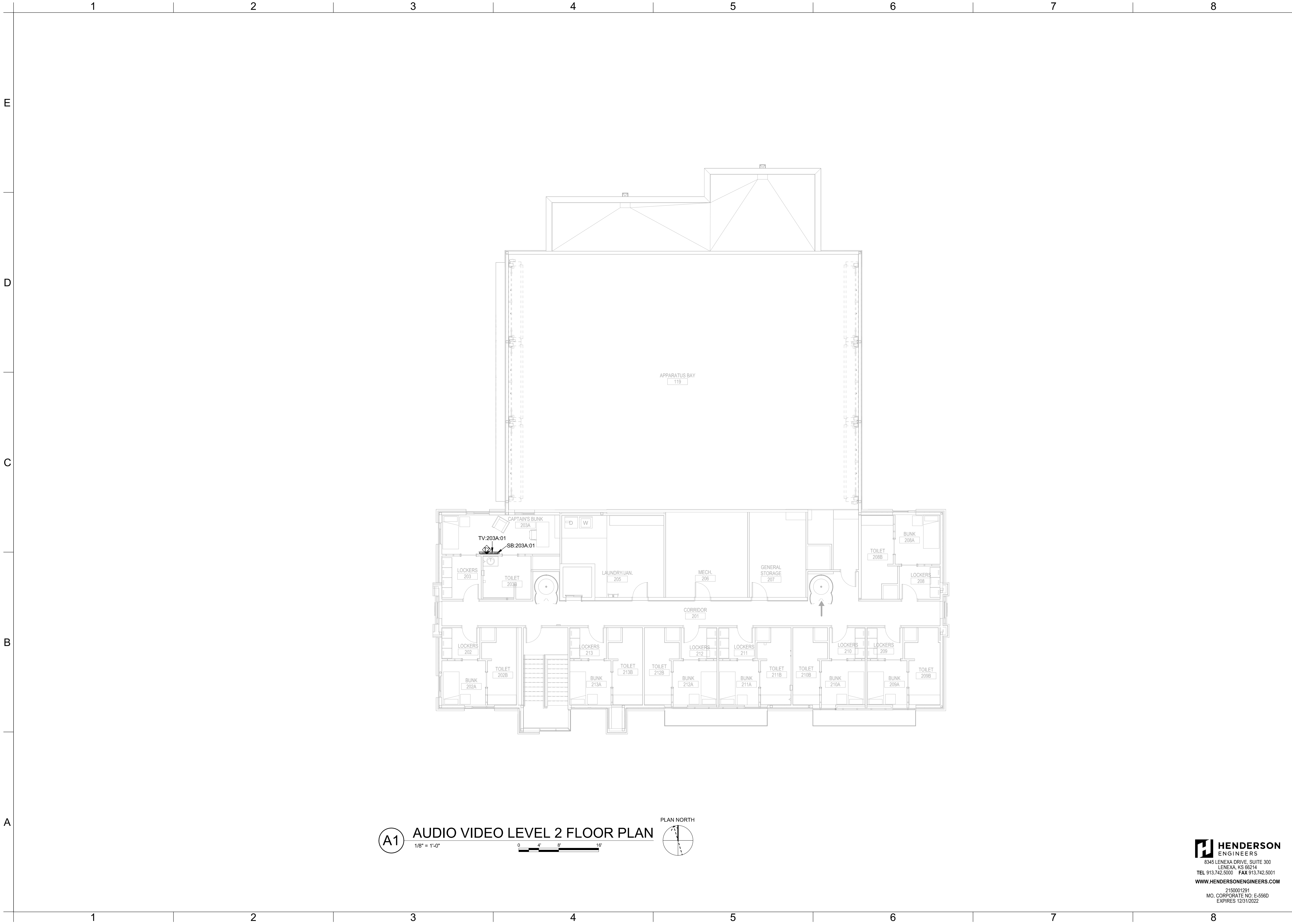
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**AUDIO-VIDEO
LEVEL 2 PLAN**

TA102

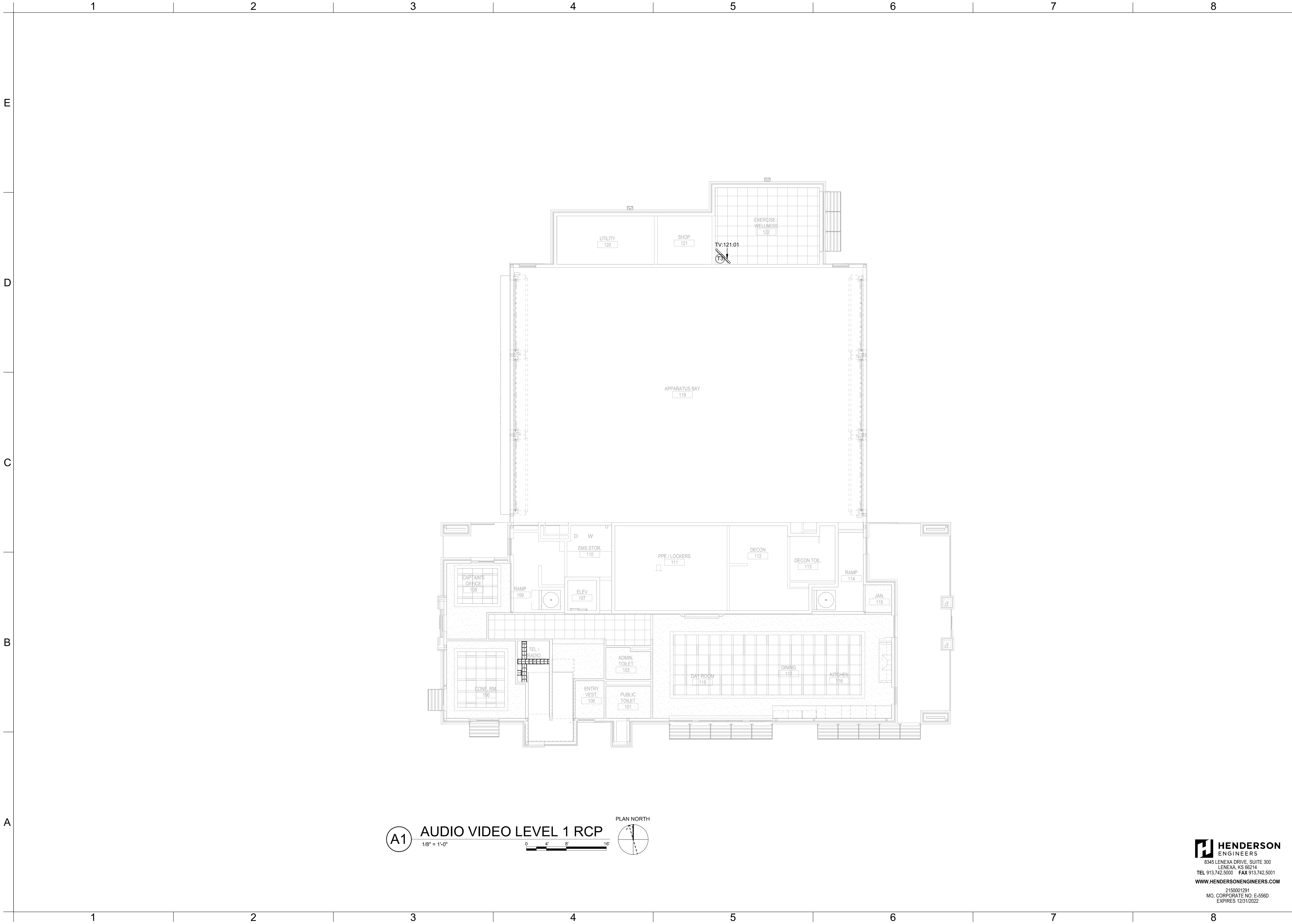


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**AUDIO-VIDEO
LEVEL 1 RCP**

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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		

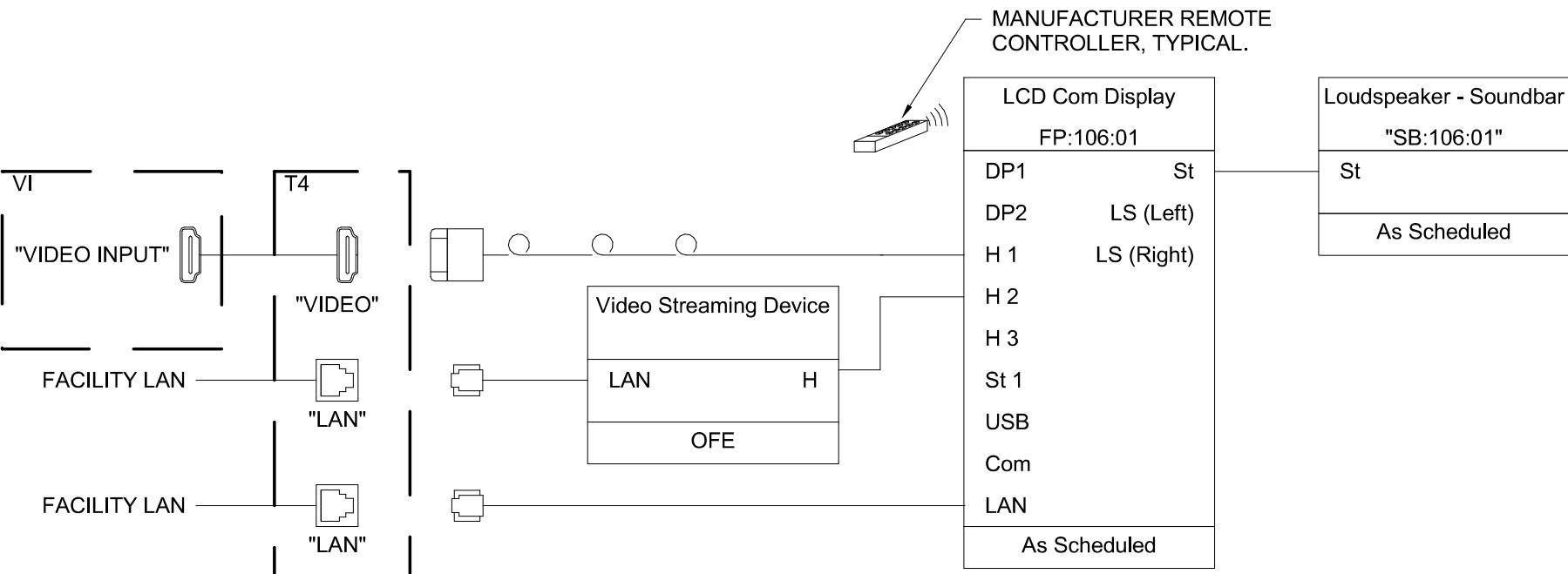
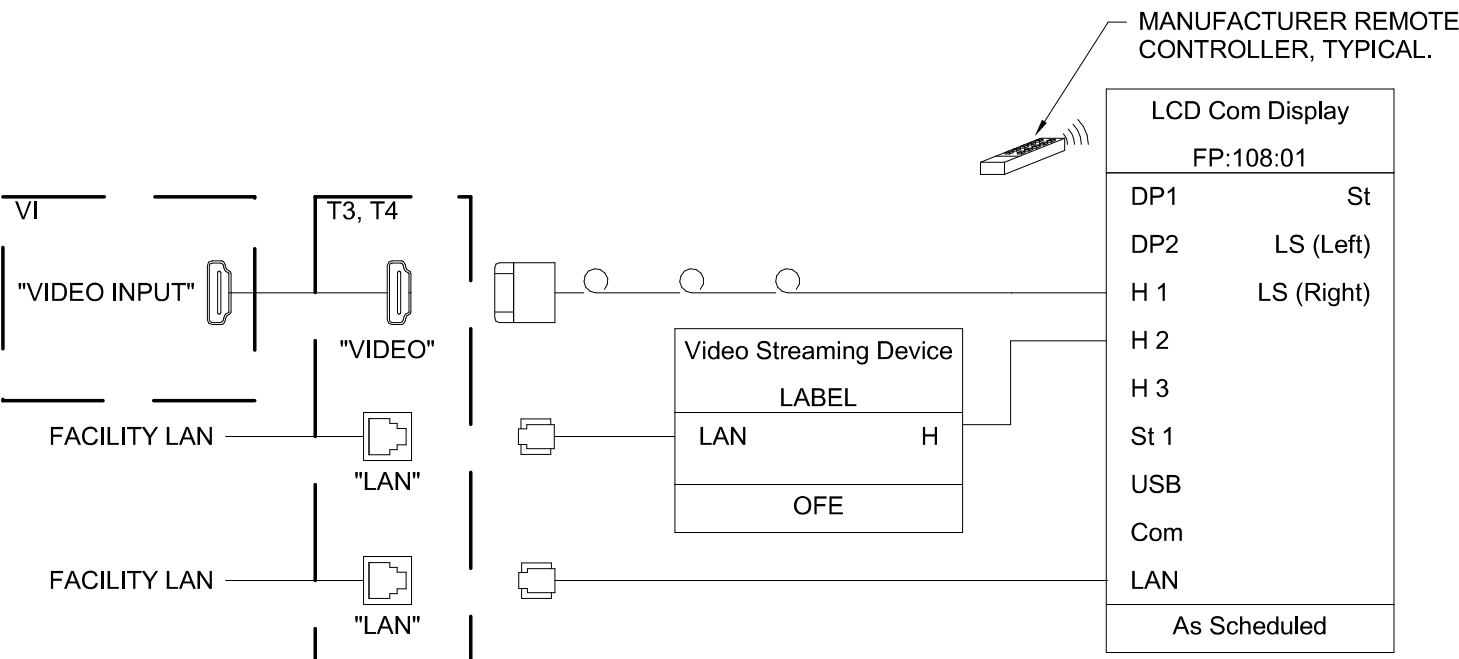
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AUDIO-VIDEO FLAT PANEL DISPLAY SCHEDULE									
DISPLAY PROPERTIES				MOUNTING REQUIREMENTS			DISPLAY RESPONSIBILITY		
ID	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT AFF. (CENTER OF DISPLAY)	TYPE	FURNISHED BY	INSTALLED BY	PROVIDED BY	NOTES
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	

C



B

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)

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

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

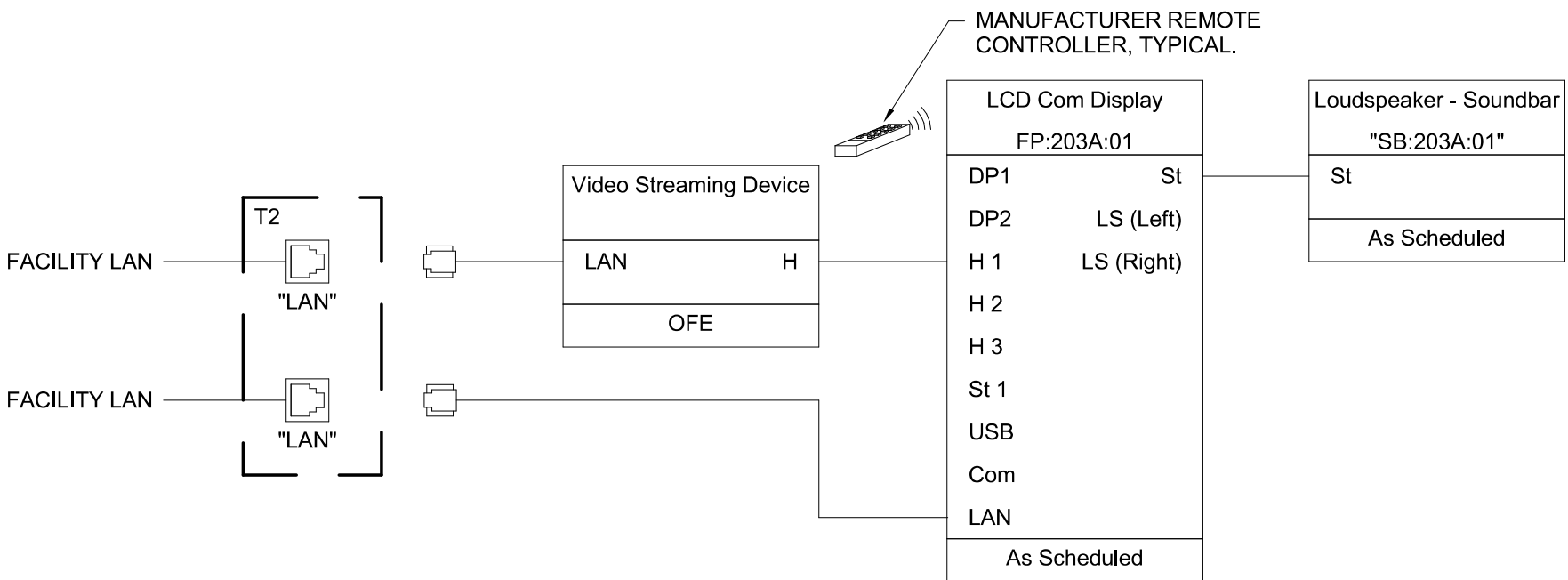
A

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)

A4 CAPTAIN'S BUNK 203 DISPLAY

NOT TO SCALE



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5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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10/19/2022

PROJECT NO: 2150001291
DATE: 10.19.2022
DRAWN BY: J.ROSE
CHK'D BY: M.MAURER

AUDIO-VIDEO SCHEDULES & SIGNAL FLOWS

TA600

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12345678

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

ANNOTATION

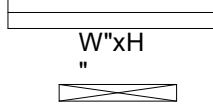

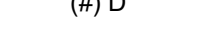
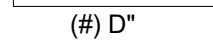
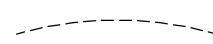

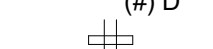
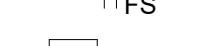
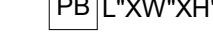
①	TECHNOLOGY PLAN CALLOUT
1	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
●	CONNECTION POINT OF NEW WORK TO EXISTING
1 T1	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER
1 T1	SECTION CUT DESIGNATION
▨	DEDICATED EQUIPMENT ACCESS TILE
▣	ACCESS 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)
	CABLE SUPPORTS OR J-HOOKS
	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,D6/TN500
▽ 2D	DATA WALL OUTLET	2	0	A3,D6/TN500
▽ 2D, TV	DATA WALL OUTLET FOR AV DISPLAY. MOUNT AT 60" AFF	2	0	B6/TN500
▽ WAP	DATA WALL OUTLET FOR WIRELESS ACCESS POINT. MOUNT AT 120" AFF	1	0	A3,D6/TN500
▽ W, 1D	DATA WALL OUTLET FOR WIRELESS ACCESS POINT. MOUNT AT 120" AFF	1	0	A6/TN500
▽ 2D ELEV	DATA WALL OUTLET FOR ELEVATOR	2	0	D6/TN500
▽ 2D	DATA CEILING OUTLET	0	2	A1,E1/TN500
▽ 2D	DATA CEILING OUTLET	2	0	D1/TN501
▽ TYPE "X"	DATA CEILING OUTLET	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 #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100 % CONSTRUCTION DOCUMENT DRAWINGS

#	Description	Date
6	A506	2/22/25

02/22/2023

PROJECT NO:	2150001291
DATE:	10.19.2022
DRAWN BY:	J.CORONADO
CHK'D BY:	M.MAURER

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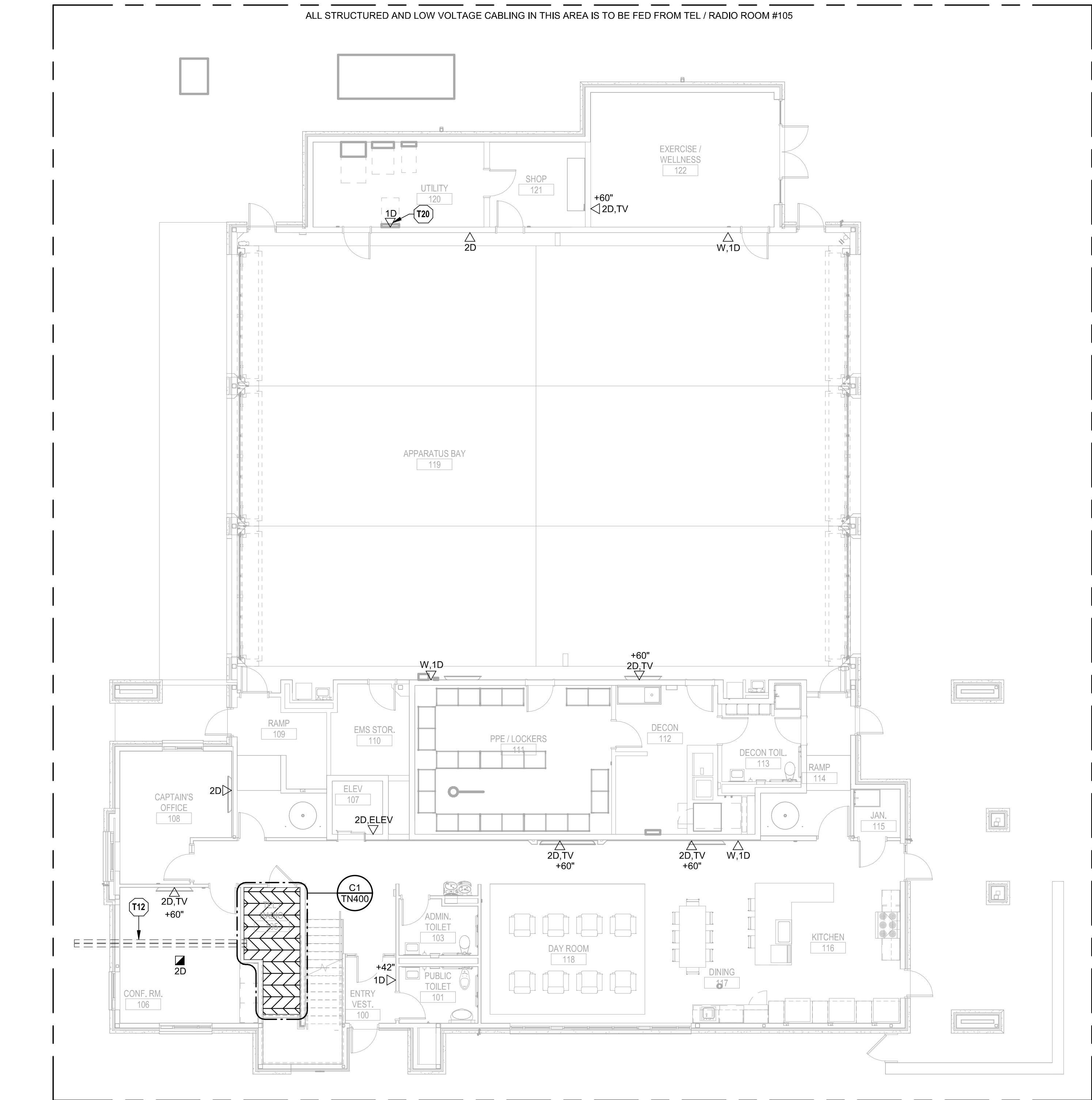
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A



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

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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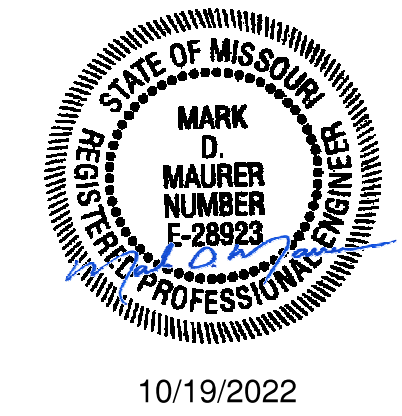
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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

#	Description	Date
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PROJECT NO: 2150001291
DATE: 10.19.2022
DRAWN BY: J.CORONADO
CHK'D BY: M.MAURER

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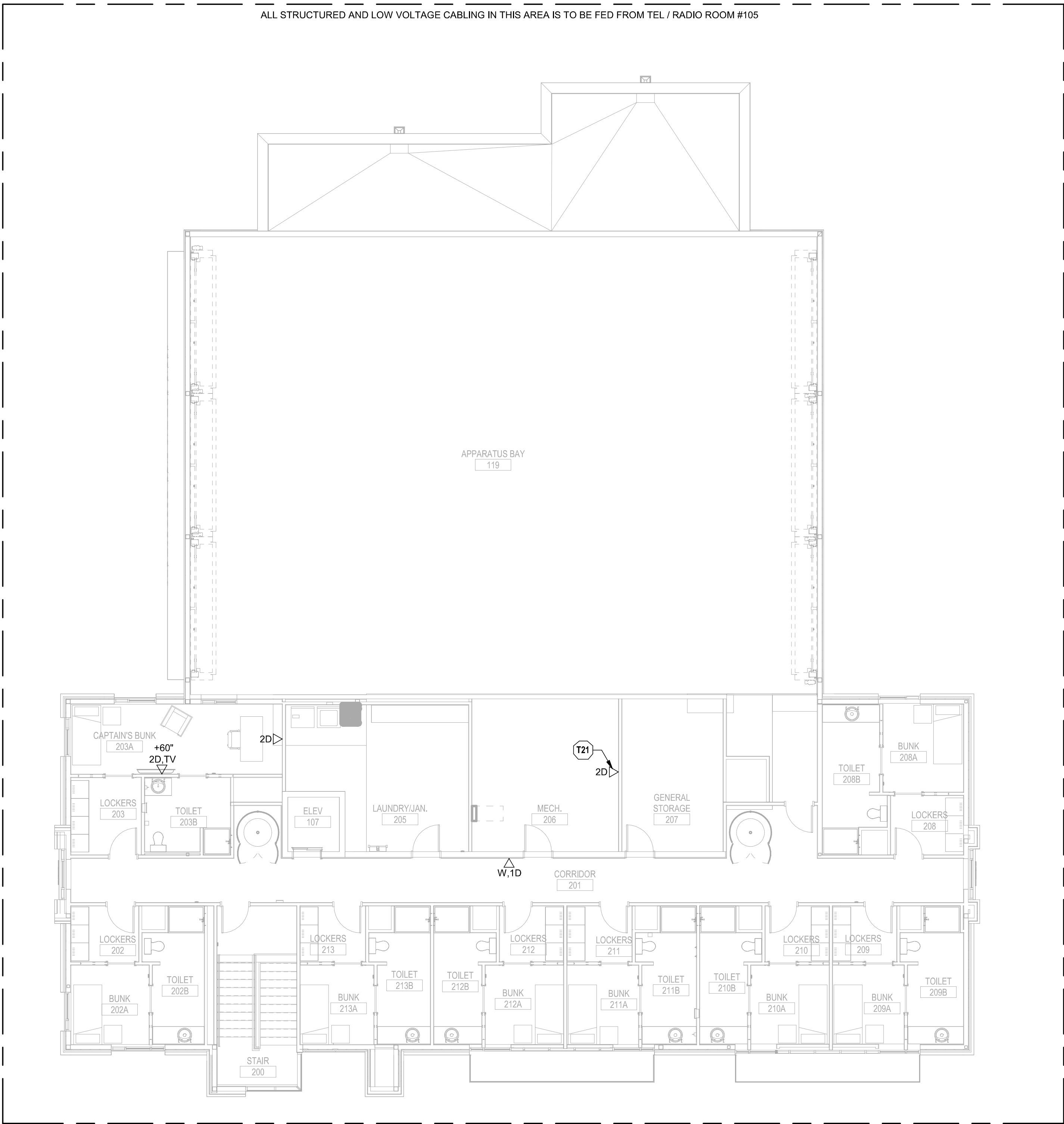
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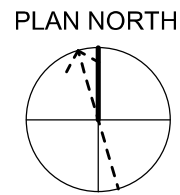


A1

TECHNOLOGY LEVEL 2 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'



- 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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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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10/19/2022

PROJECT NO: 2150001291

DATE: 10.19.2022

DRAWN BY: J.CORONADO

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TECHNOLOGY
LEVEL 2 PLAN

TN102



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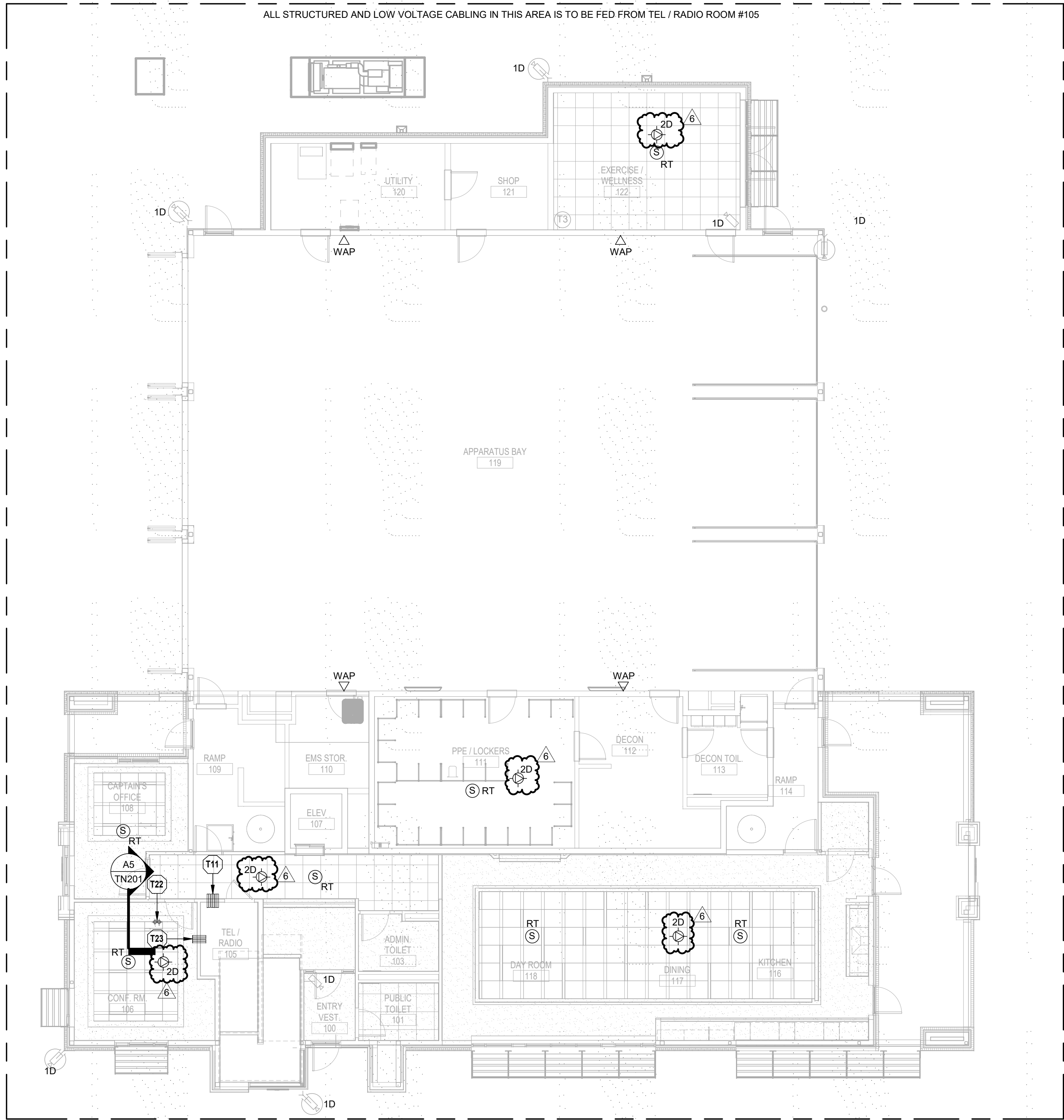
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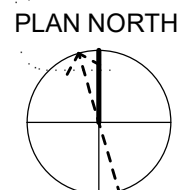
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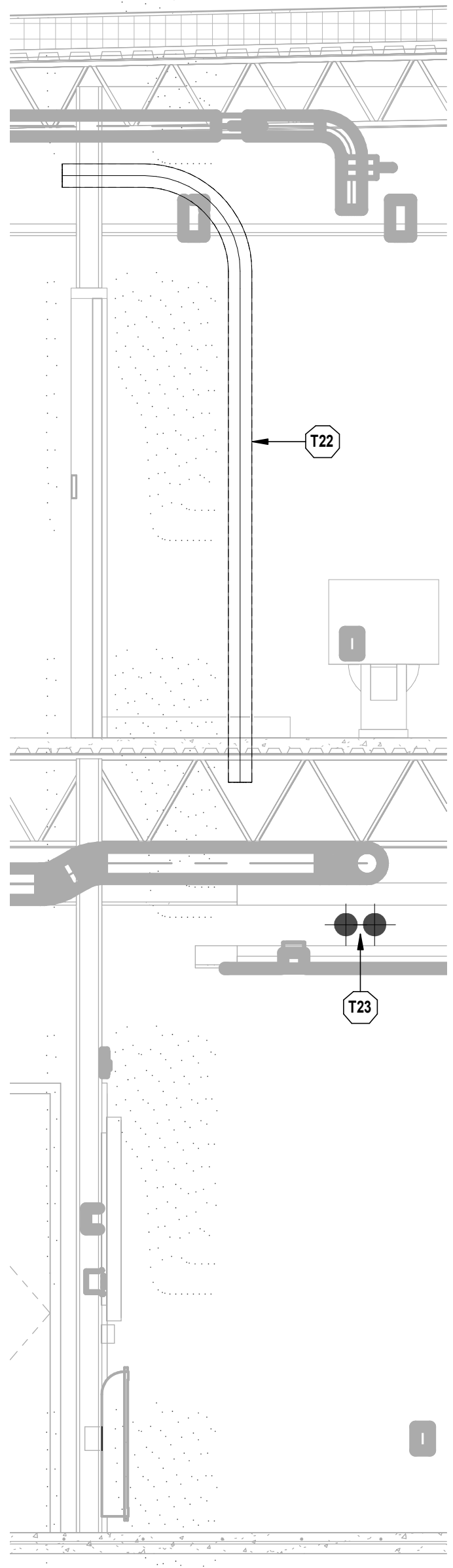
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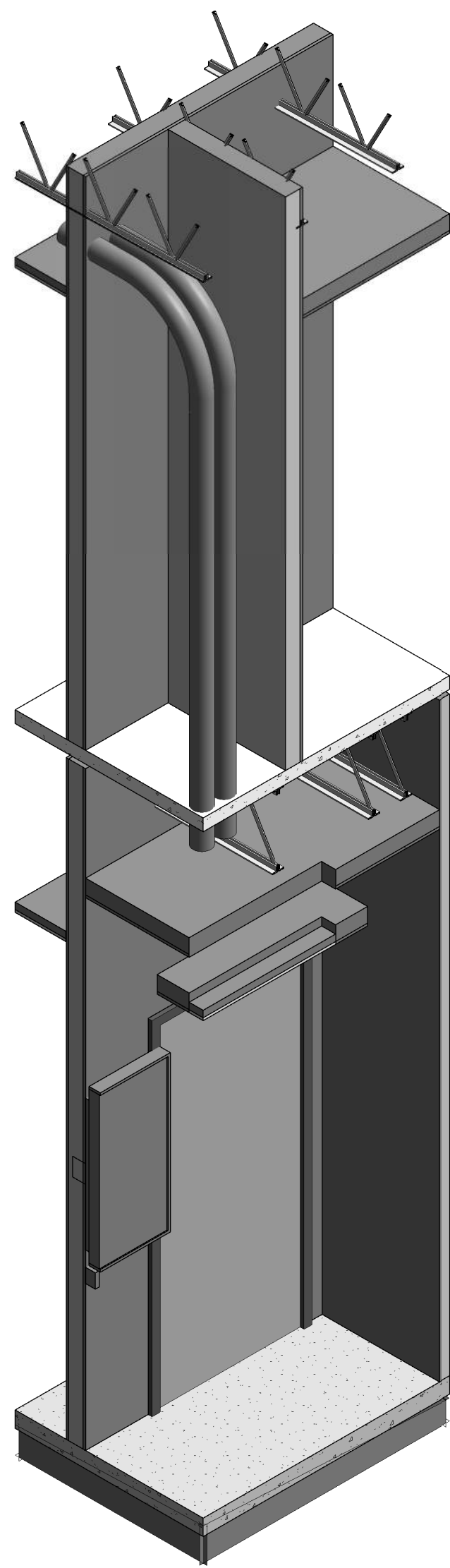
A1 TECHNOLOGY LEVEL 1 RCP
1/8" = 1'-0"



A5 LEVEL 2 CONDUIT PATHWAY
1/2" = 1'-0"



A7 LEVEL 2 CONDUIT PATHWAY
0 4' 8' 16'



- TECHNOLOGY PLAN NOTES:**
- T11 PROVIDE (3) 3/4" FIRE-RATED CONDUITS FOR HORIZONTAL CABLING.
- T22 PROVIDE (2) 4" FIRE-RATED CONDUITS FOR 2ND FLOOR HORIZONTAL CABLING ORIGINATING FROM TEL / RADIO ROOM #105.
- T23 PROVIDE (2) 4" FIRE-RATED CONDUIT SLEEVES FOR 2ND FLOOR HORIZONTAL CABLING.

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FIRE STATION #4
CITY OF LEE'S SUMMIT
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LEE'S SUMMIT, MISSOURI 64064

#	Description	Date
6	A506	2/22/23



PROJECT NO: 2150001291
DATE: 10.19.2022
DRAWN BY: J.CORONADO
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**TECHNOLOGY
LEVEL 1 RCP**

TN201

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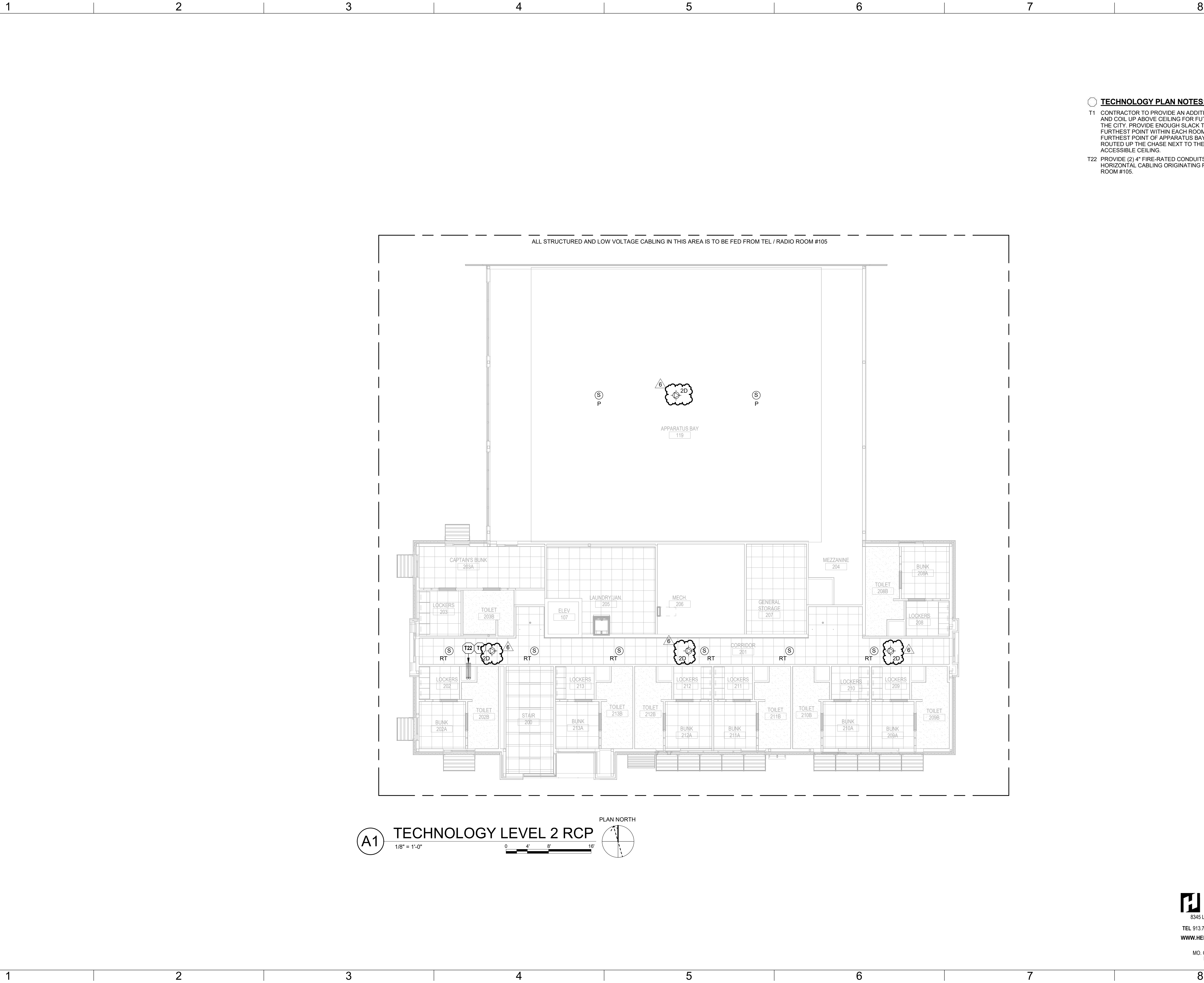
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- TECHNOLOGY PLAN NOTES:**
- T1 CONTRACTOR TO PROVIDE AN ADDITIONAL 30 DATA CABLES AND COIL UP ABOVE CEILING FOR FUTURE TERMINATION BY THE CITY. PROVIDE ENOUGH SLACK TO REACH THE FURTHEST POINT WITHIN EACH ROOM SPECIFICALLY FURTHEST POINT OF APPARATUS 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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LEE'S SUMMIT, MISSOURI 64064

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#	Description	Date
6	ASDC	2/22/23

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
MARK D. MAURER
NUMBER E-28823
02/22/2023

PROJECT NO:	2150001291
DATE:	10.19.2022
DRAWN BY:	J. CORONADO
CHK'D BY:	M. MAURER

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TECHNOLOGY
LEVEL 2 RCP

TN202

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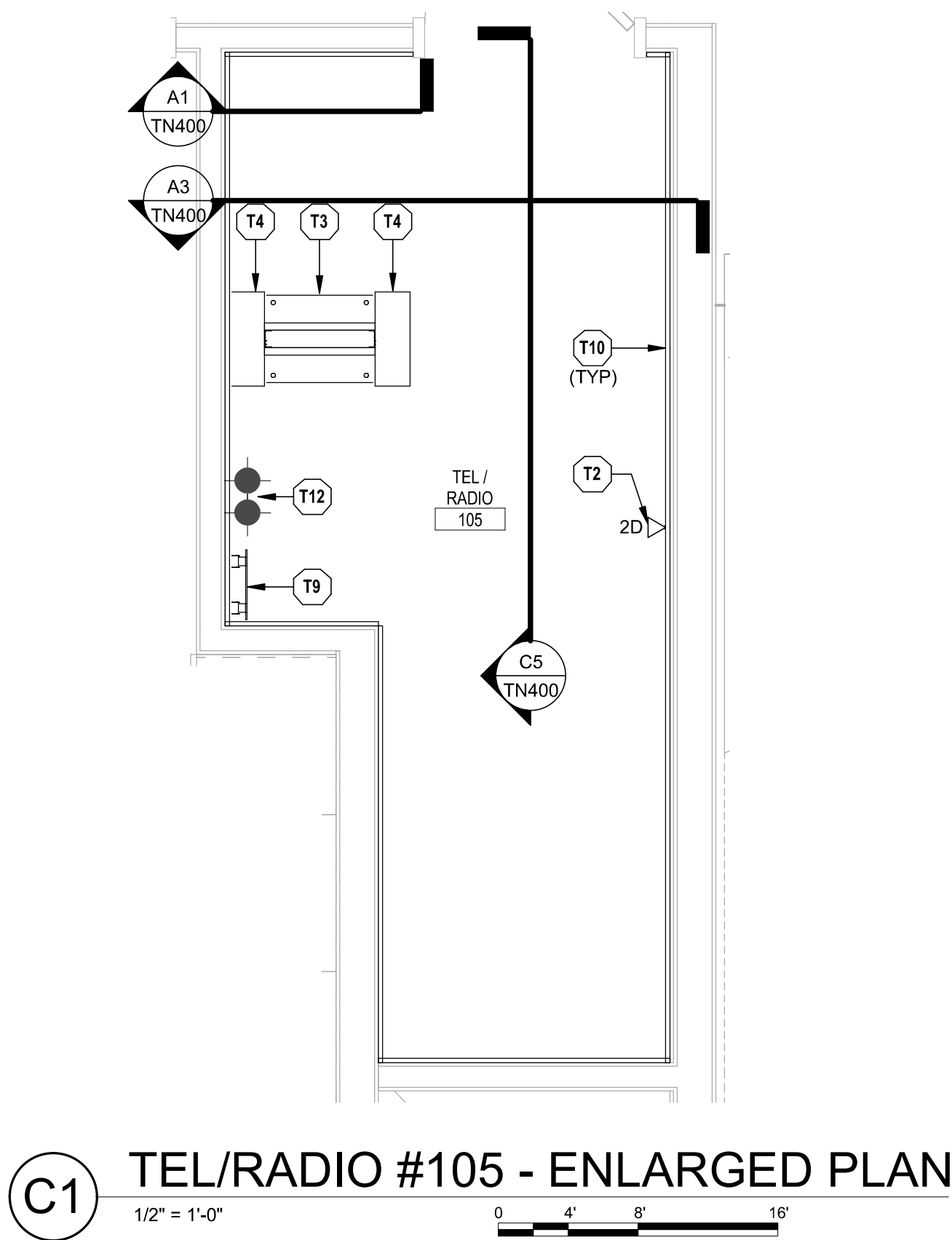
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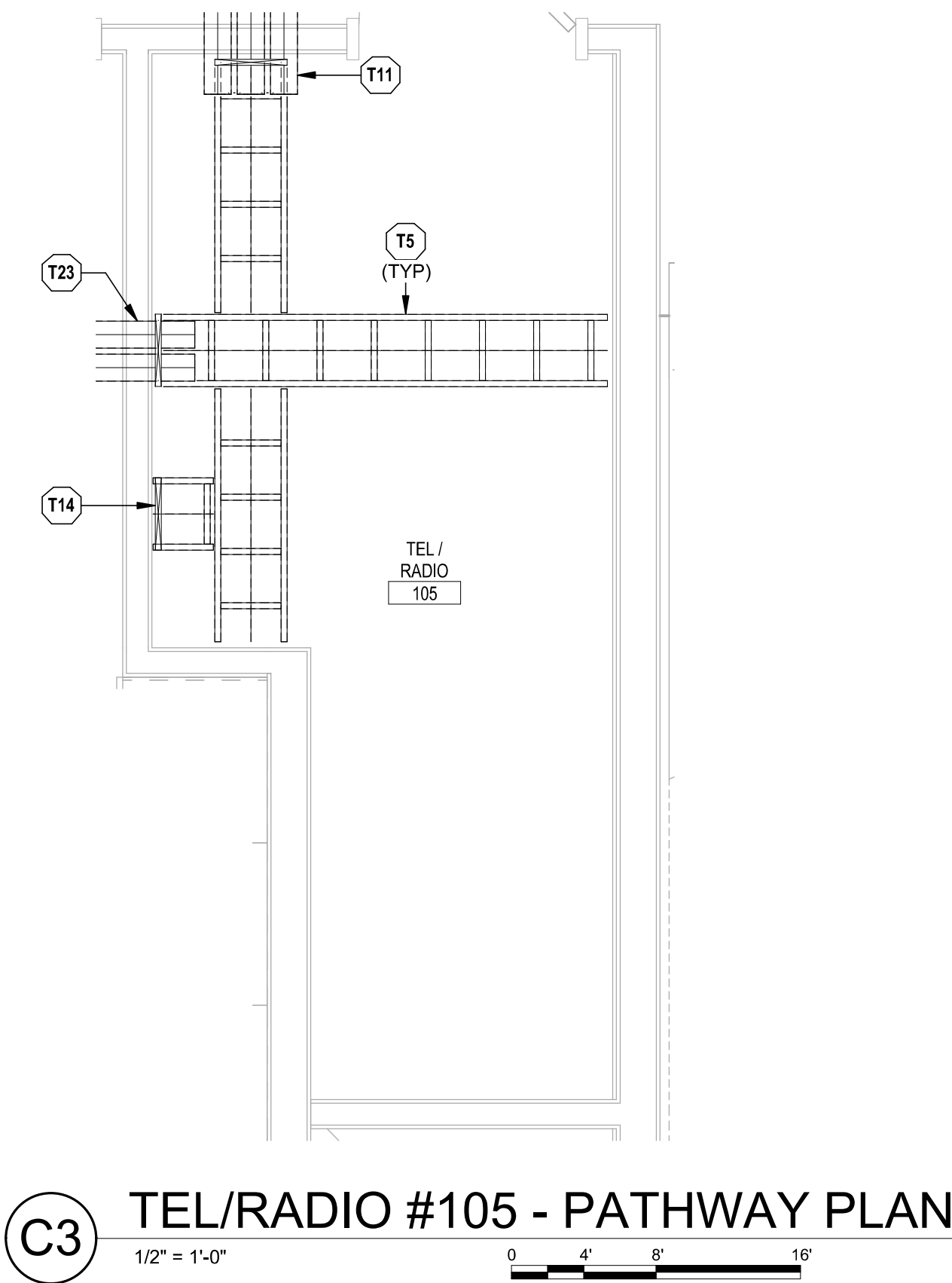
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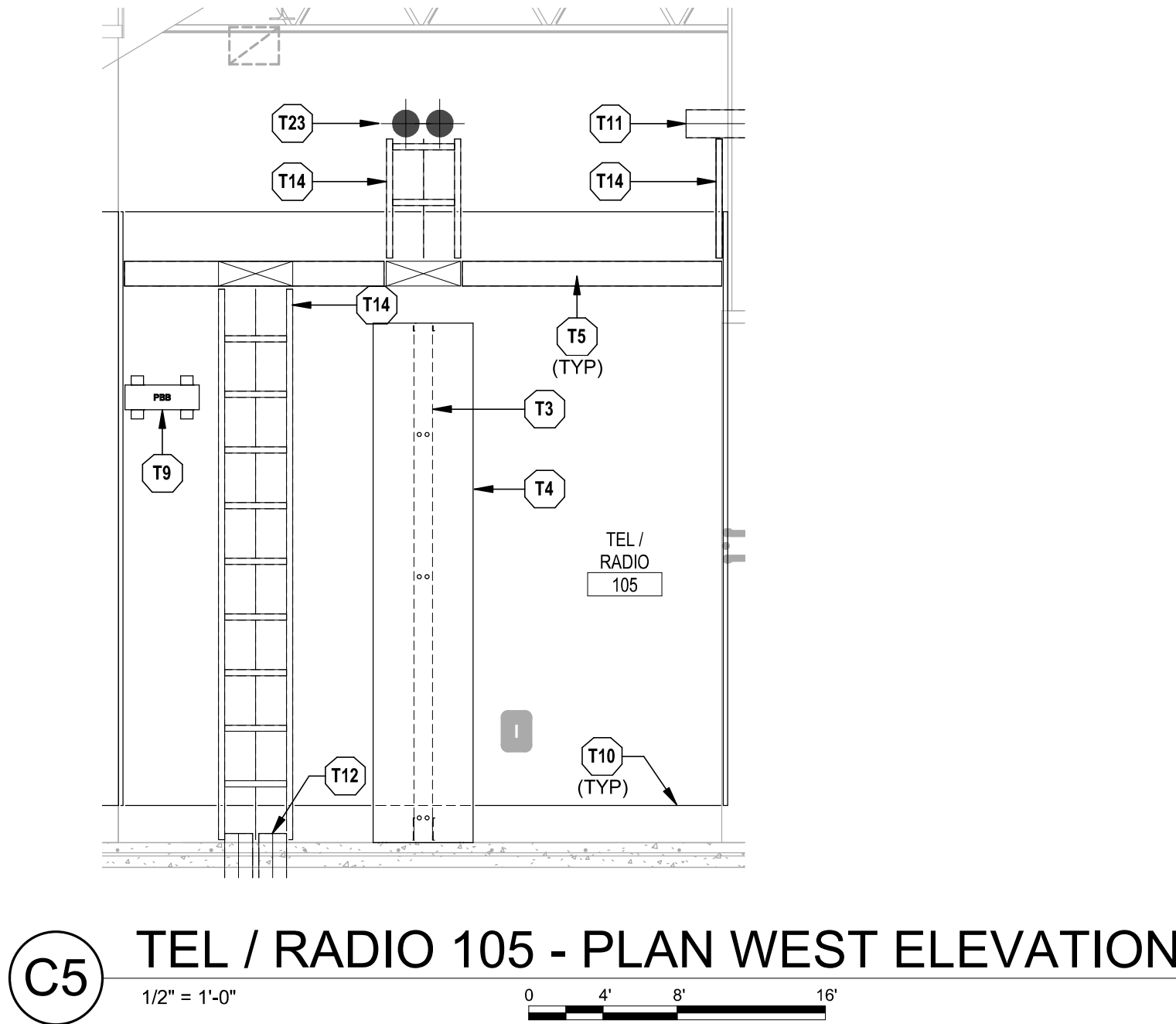
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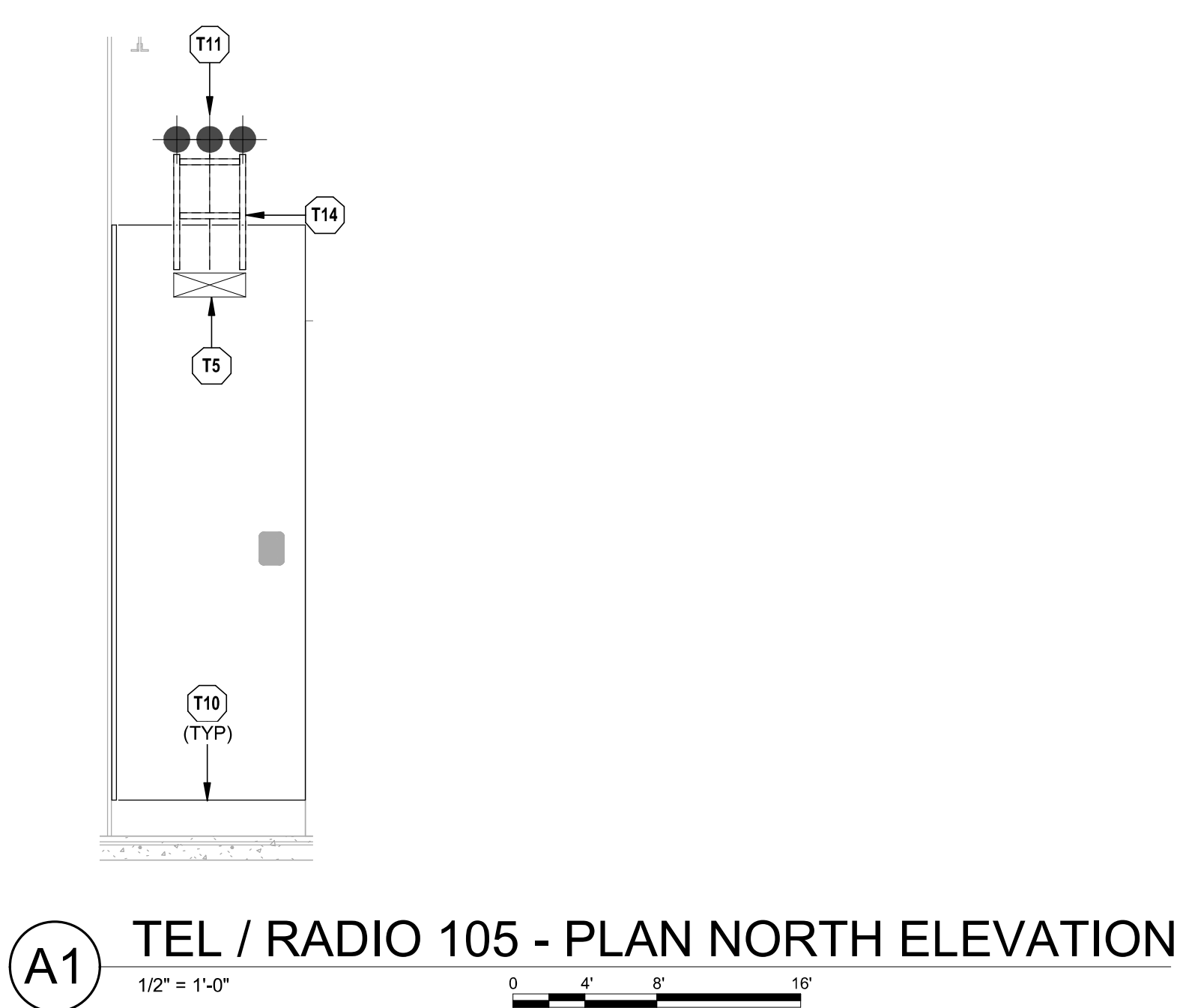
C1 TEL/RADIO #105 - ENLARGED PLAN



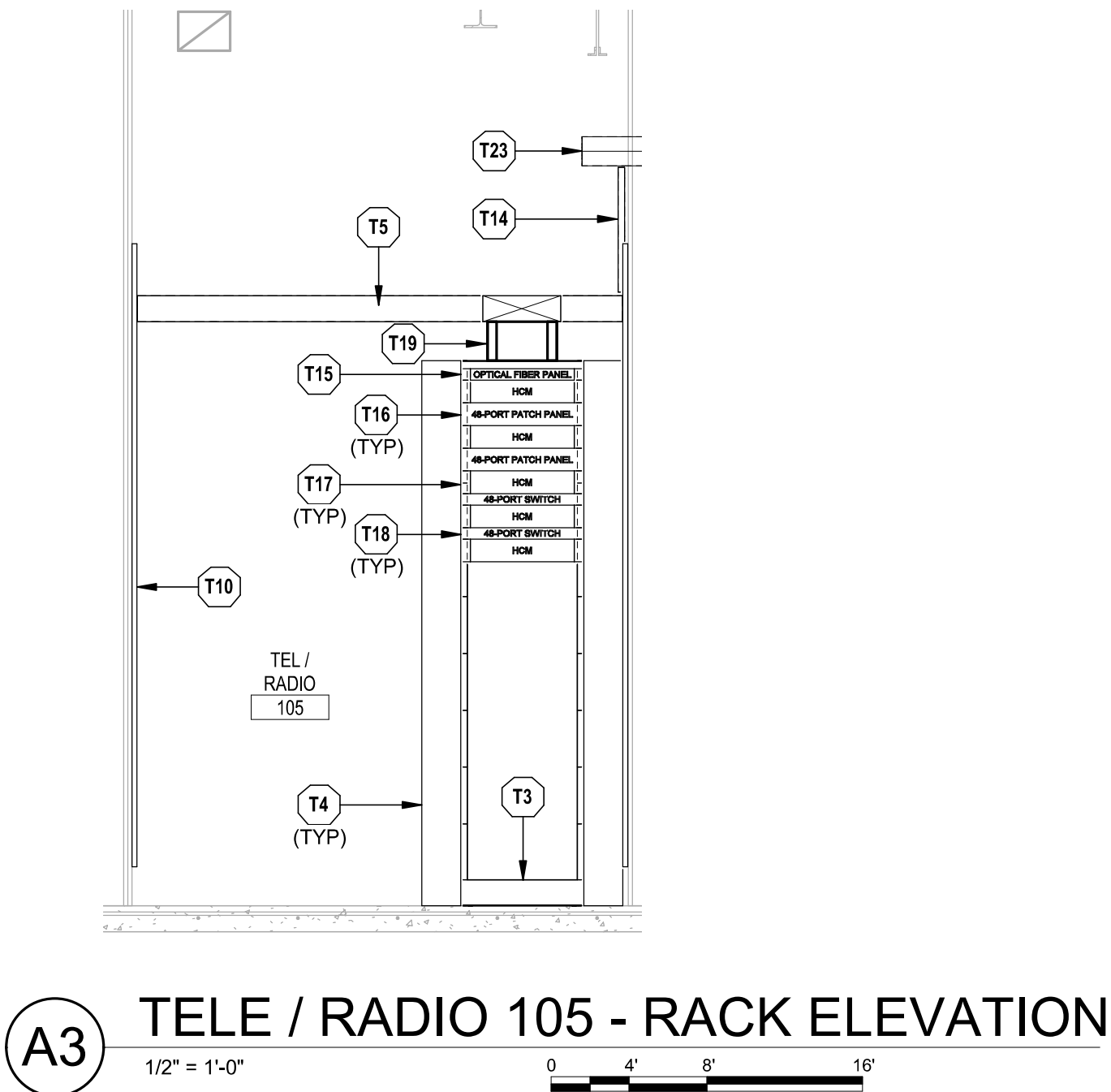
C3 TEL/RADIO #105 - PATHWAY PLAN



C5 TEL / RADIO 105 - PLAN WEST ELEVATION



A1 TEL / RADIO 105 - PLAN NORTH ELEVATION



A3 TELE / RADIO 105 - RACK ELEVATION

- TECHNOLOGY PLAN NOTES:**
- T2 PROVIDE DATA OUTLET FOR SECURITY SYSTEM. REFER TO SECURITY SHEETS FOR ADDITIONAL INFORMATION. FIELD VERIFY EXACT LOCATION WITH SECURITY PROVIDER.
- T3 PROVIDE TWO-POST FLOOR RACK. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T4 PROVIDE VERTICAL CABLE MANAGEMENT. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T5 PROVIDE 12" WIDE LADDER RACK WITH 9" RUNG SPACING. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T9 PROVIDE TELECOMMUNICATIONS PRIMARY BUS BAR (PBB). REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T10 PROVIDE TELECOMMUNICATIONS BACKBOARD, GRADE A/C 3/4" THICK FIRE RATED PLYWOOD BACKBOARDS DOUBLE COATED IN UL 723 CLASSIFIED FIRE RETARDANT LOW GLOSS WHITE PAINT. THE "A" SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE "C" SIDE PLACED AGAINST THE BUILDING STRUCTURE. PLYWOOD SHALL BE PAINTED PRIOR TO INSTALLATION OF EQUIPMENT. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T11 PROVIDE (3) 4" FIRE-RATED CONDUITS FOR HORIZONTAL CABLING.
- 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.
- T14 PROVIDE 12" WIDE VERTICAL LADDER RACK WITH 9" RUNG SPACING. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T15 PROVIDE OPTICAL FIBER ENCLOSURE, PANELS AND MODULES TO PROVIDE COMPLETE TERMINATION OF OPTICAL FIBER CABLES FOR A FULLY-FUNCTIONING SYSTEM. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T16 PROVIDE PATCH PANEL FOR HORIZONTAL CABLING. PROVIDE APPROPRIATE QUANTITY TO SUPPORT DEVICES SERVED FROM COMM ROOM PLUS SPARES AS NOTED IN SPECIFICATIONS. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T17 PROVIDE HORIZONTAL CABLE MANAGEMENT. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T18 OWNER PROVIDED NETWORK SWITCH.
- T19 PROVIDE 6" RUNWAY EXTENSION KIT AND A 3" TOP PLATE AT EACH EQUIPMENT RACK. REFER TO DIVISION 27 SPECIFICATIONS FOR FURTHER INFORMATION.
- T23 PROVIDE (2) 4" FIRE-RATED CONDUIT SLEEVES FOR 2ND FLOOR HORIZONTAL CABLING.

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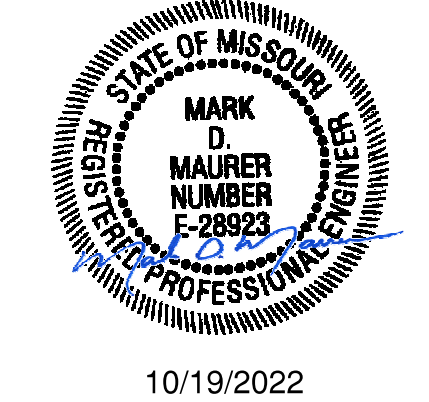
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LEE'S SUMMIT, MISSOURI 64064

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DATE: 10.19.2022
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CHK'D BY: M.MAURER

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**ENLARGED
PLANS**

TN400

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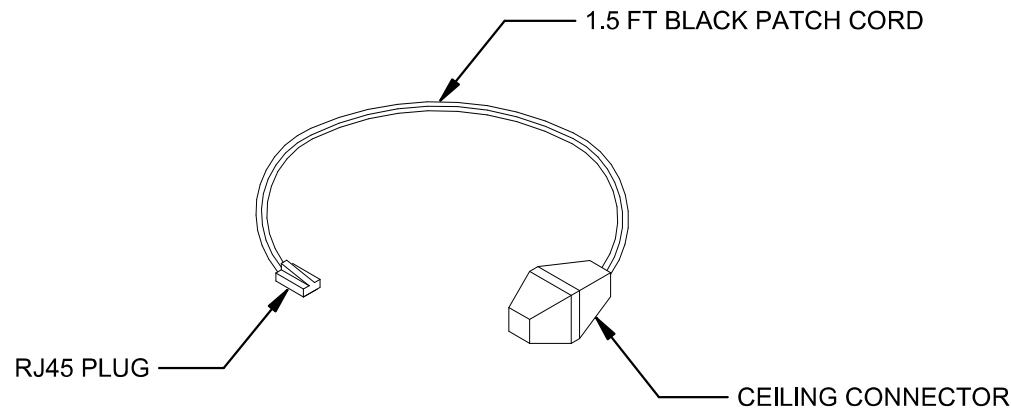
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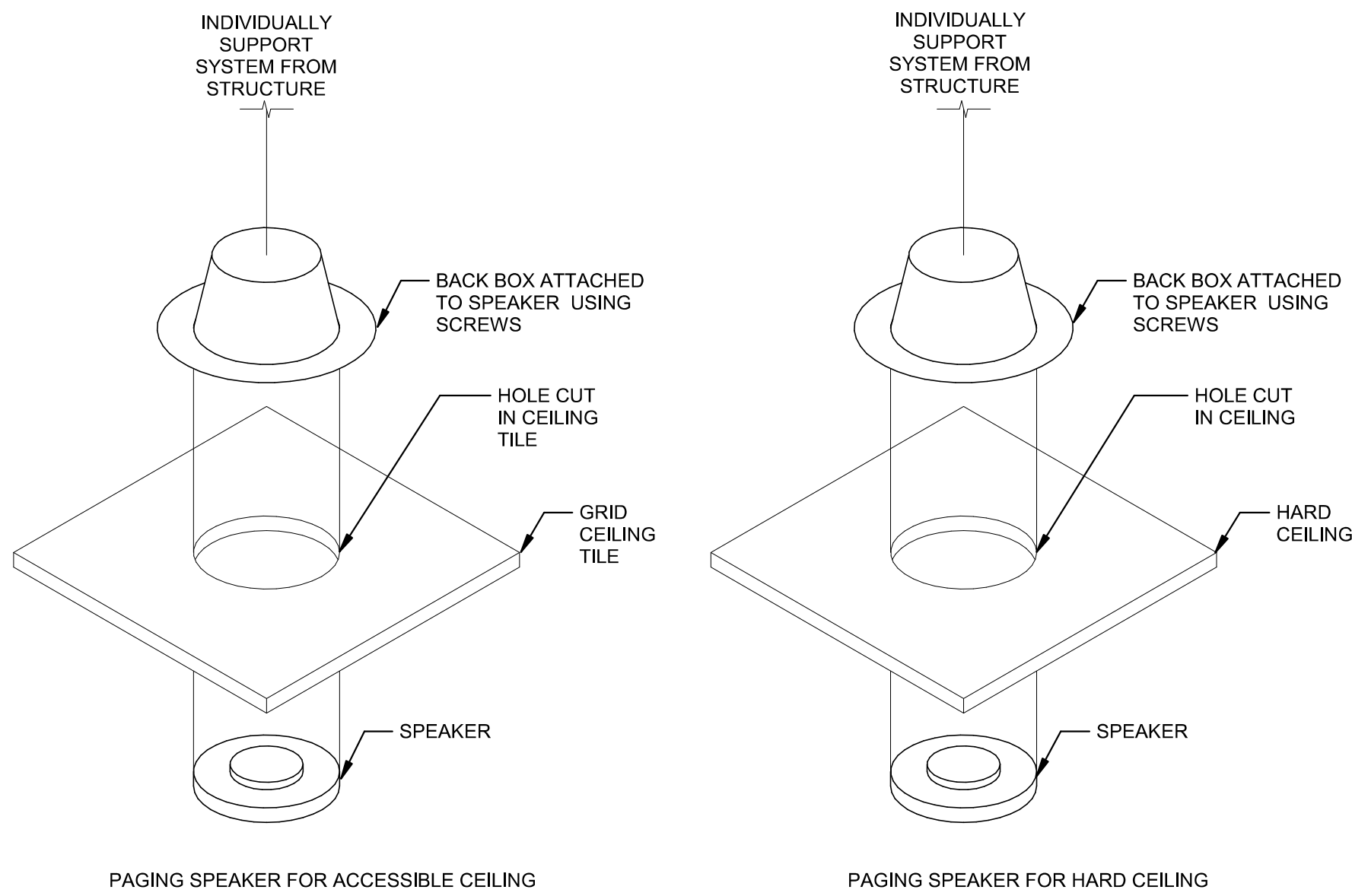
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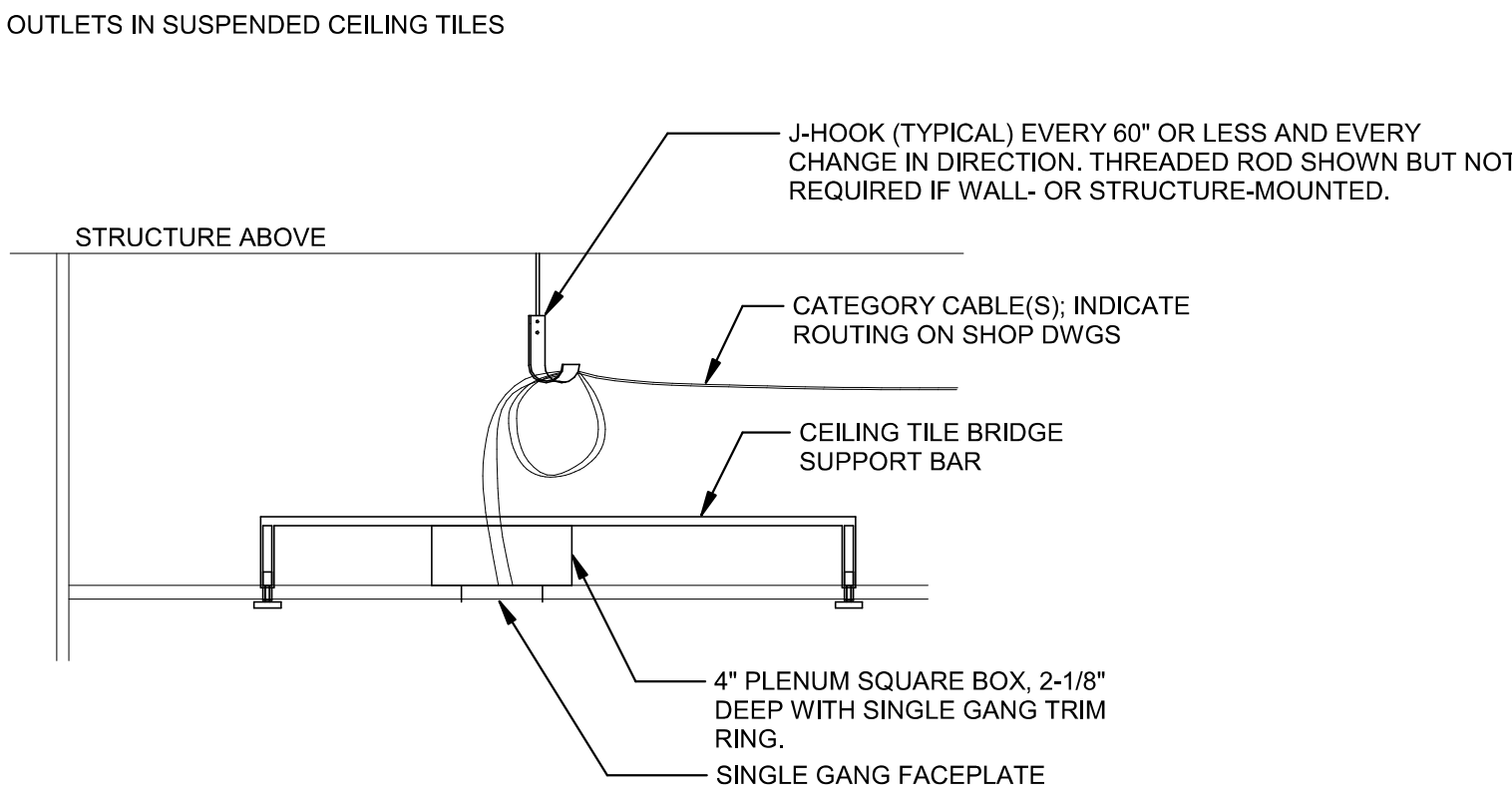


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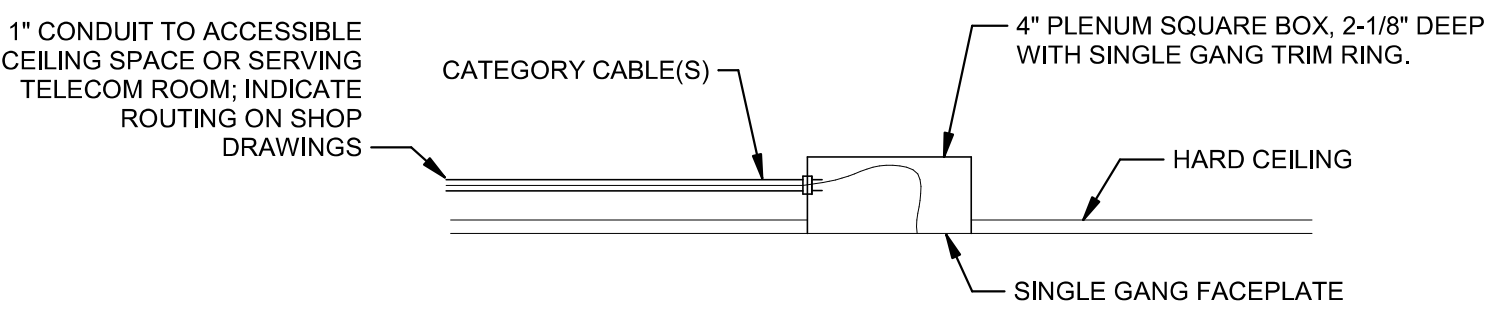


C1 SPEAKER INSTALLATION
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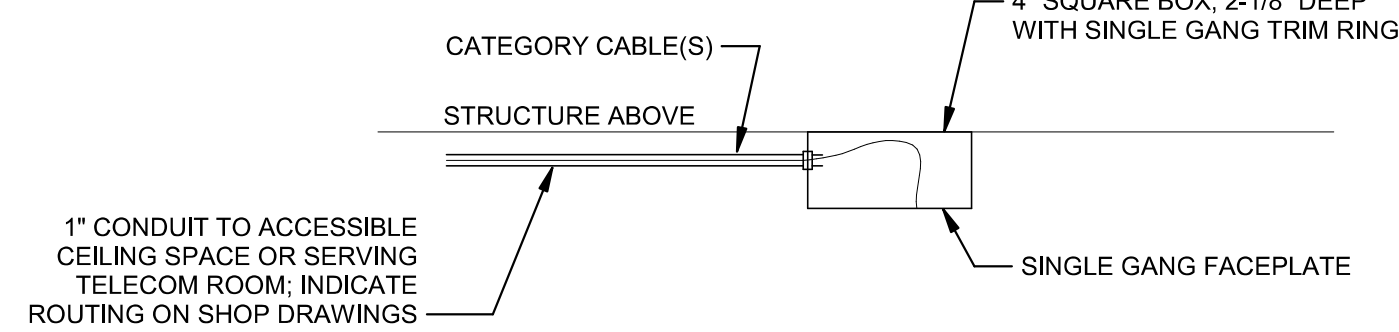
FOR OUTLETS IN SUSPENDED CEILING TILES



FOR OUTLETS IN GYPSUM BOARD CEILINGS

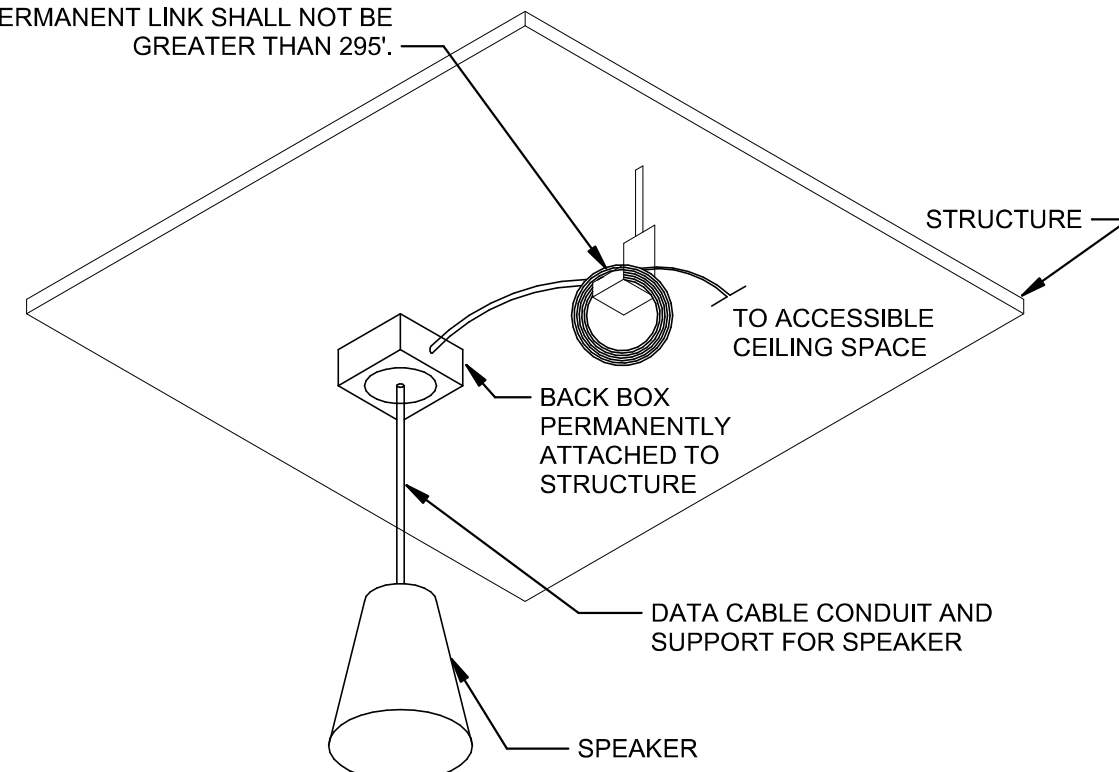


FOR OUTLETS IN EXPOSED TO STRUCTURE AREAS



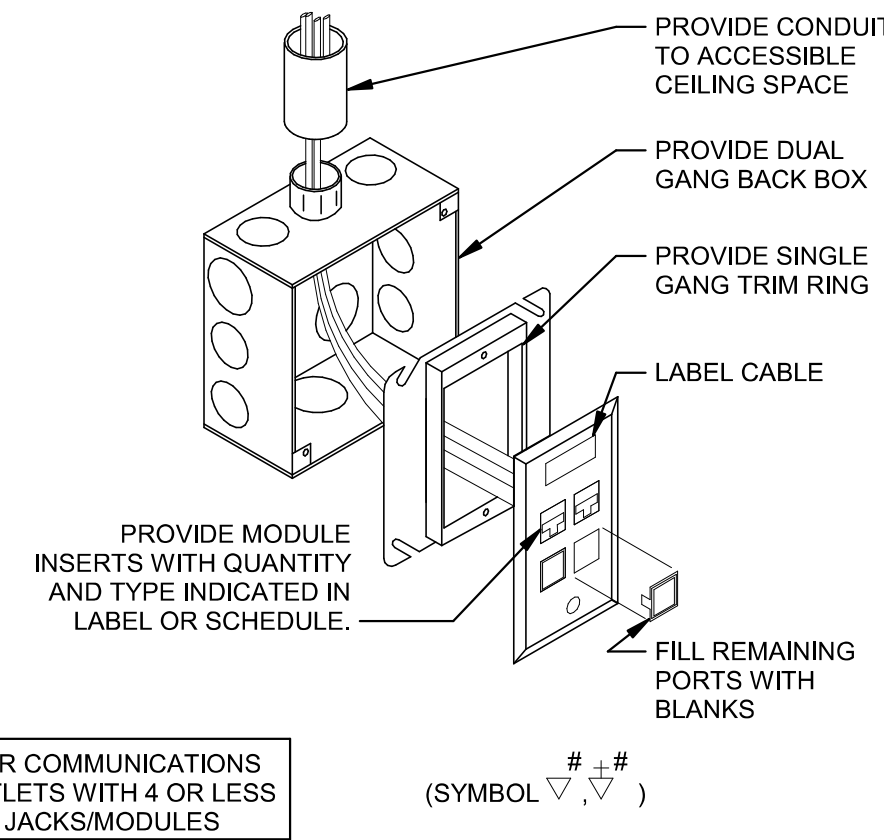
A1 CEILING COMM OUTLET 2D
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PROVIDE 5'-0" OF DATA CABLE SLACK. PERMANENT LINK SHALL NOT BE GREATER THAN 295'.

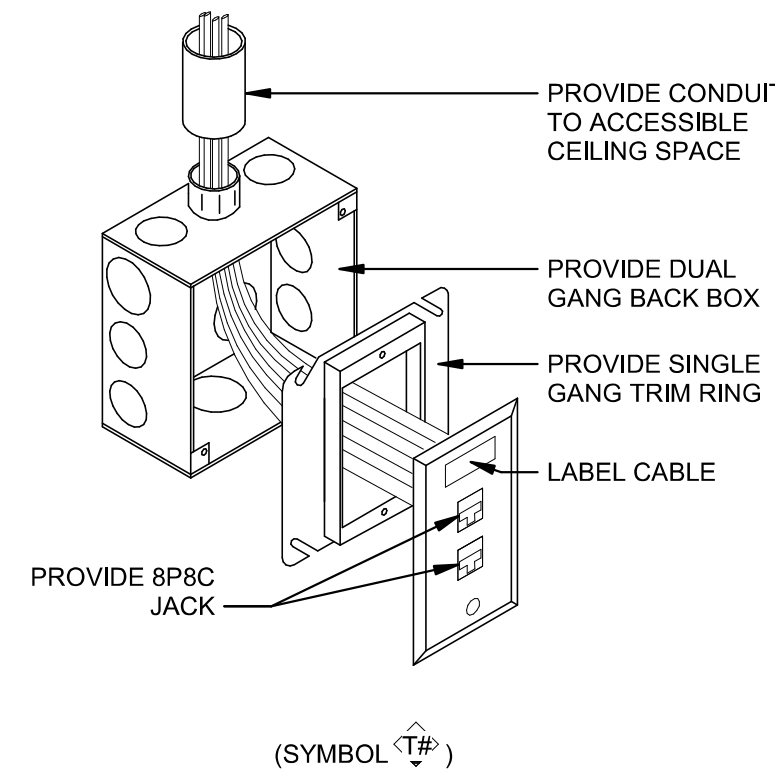


PAGING SPEAKER FOR EXPOSED CEILING

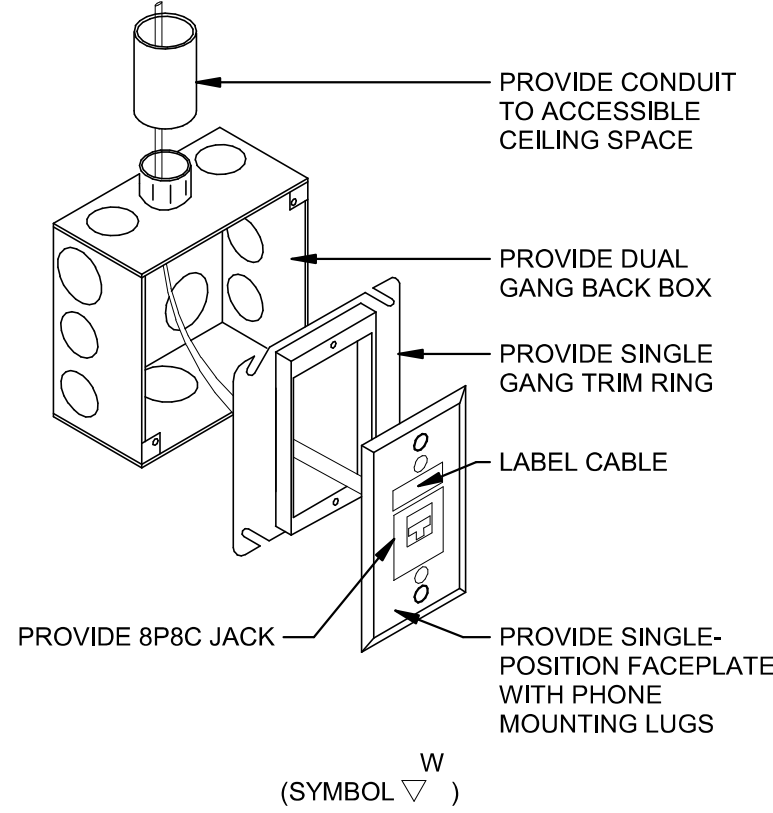
A3 COMMUNICATIONS OUTLET MOUNTING
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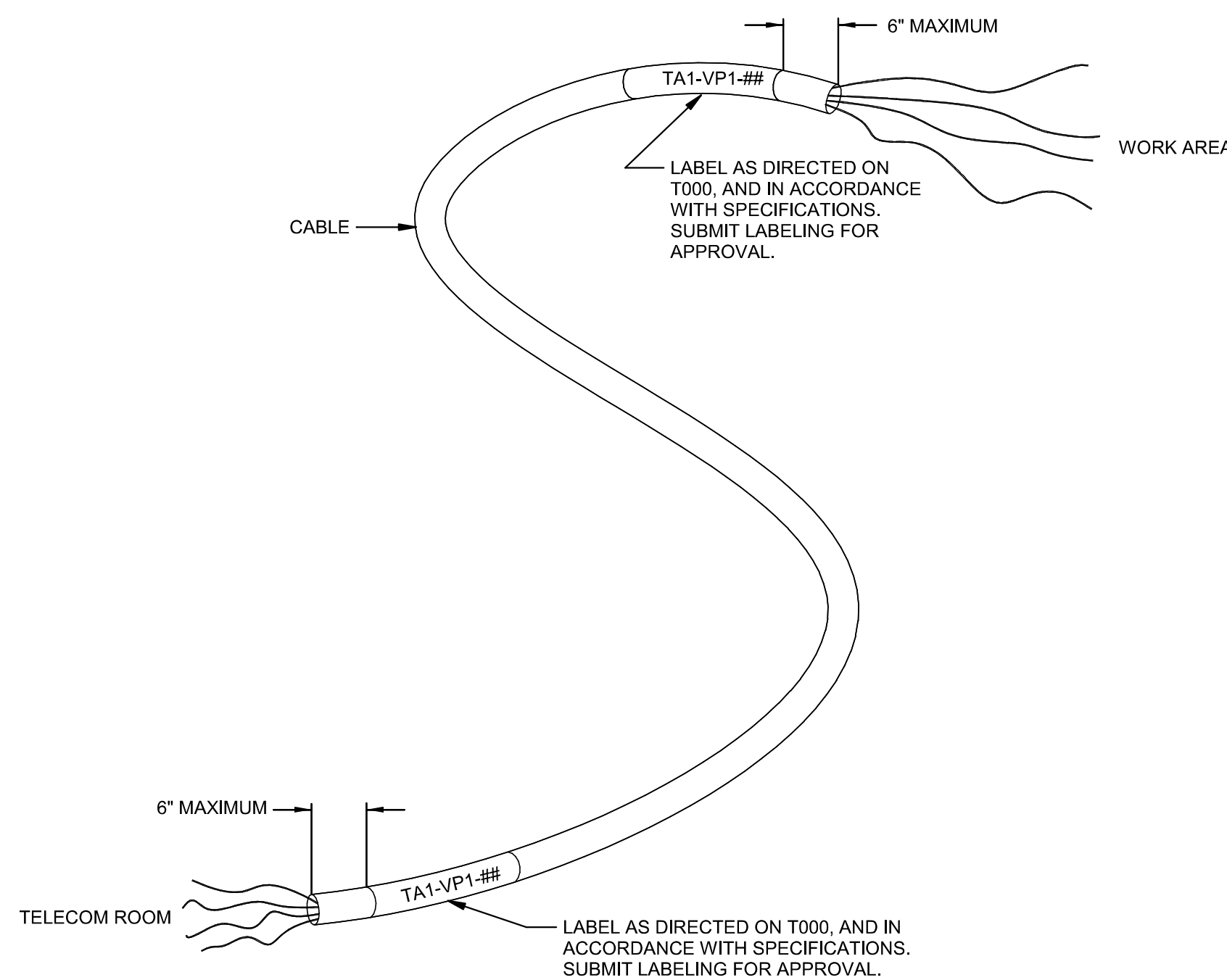
D5 SINGLE GANG COMM OUTLET (3D)
NOT TO SCALE



C5 SINGLE GANG COMM OUTLET FOR DISPLAY (3D)
NOT TO SCALE



D7 WALL PHONE OUTLET (3D)
NOT TO SCALE



A6 LABELING OF HORIZONTAL CABLE
NOT TO SCALE



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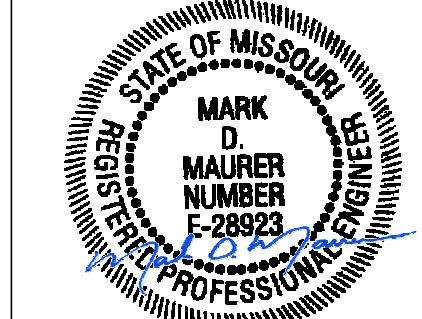
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LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

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PROJECT NO: 2150001291

DATE: 10.19.2022

DRAWN BY: J.CORONADO

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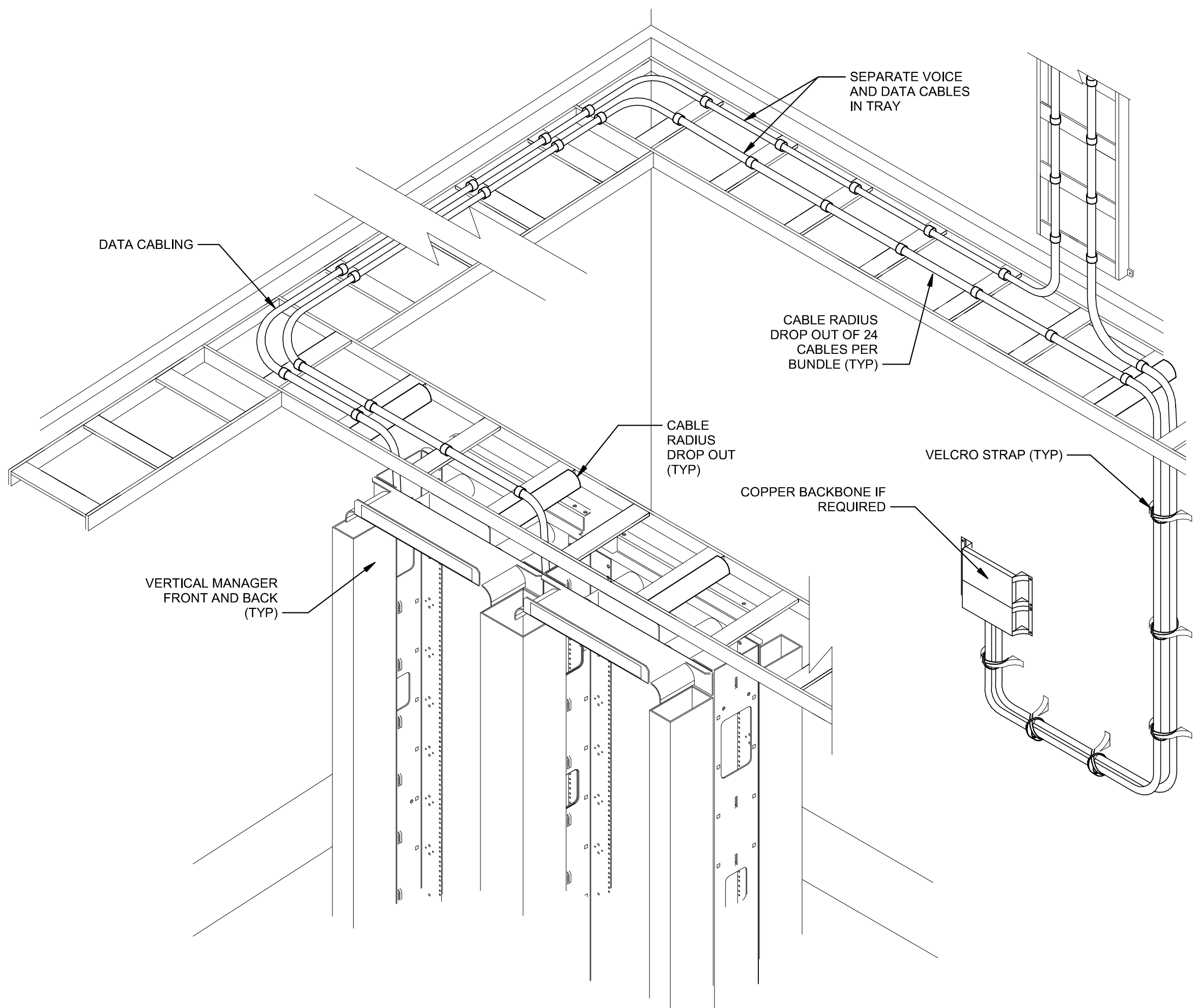
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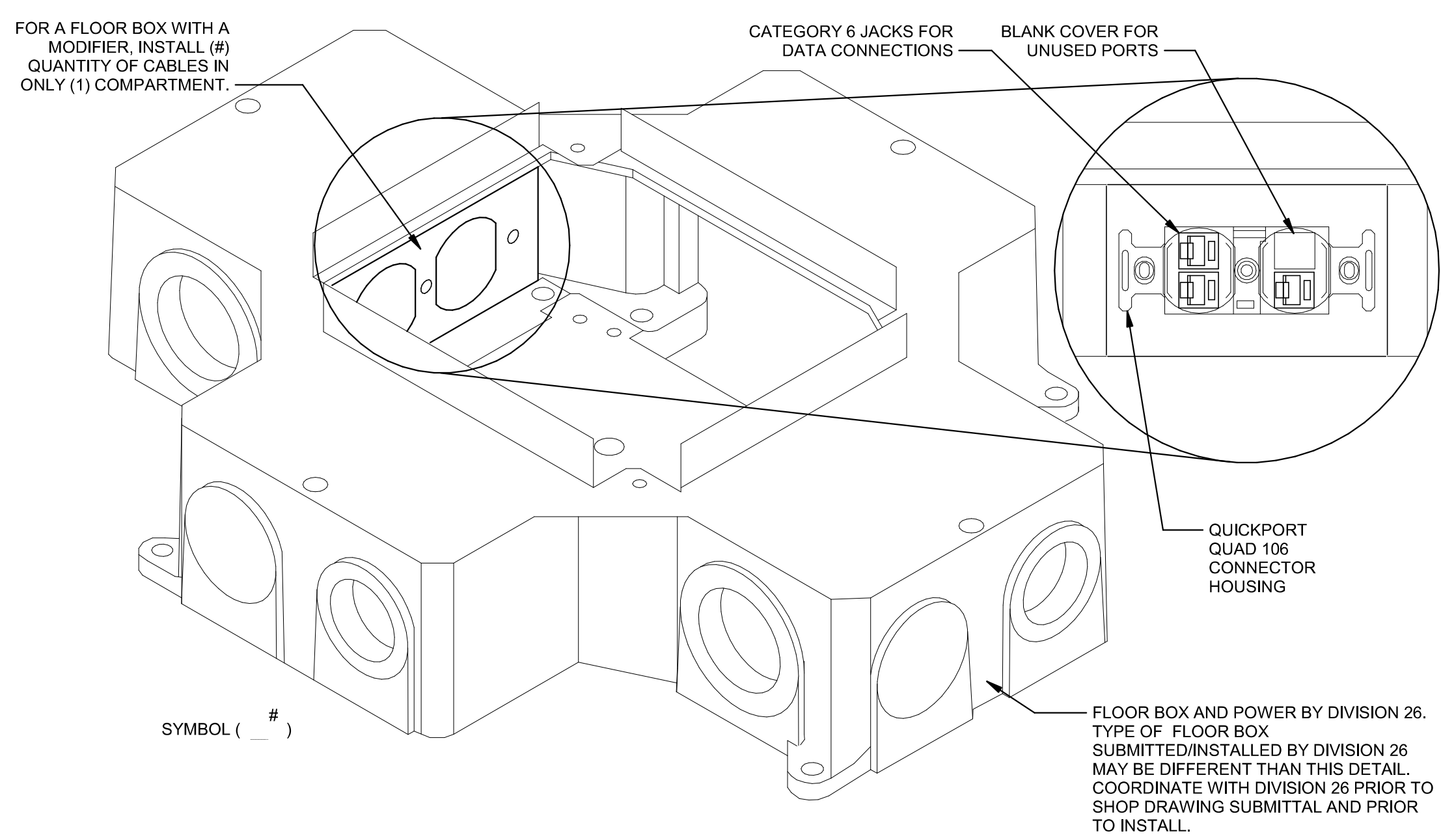
TELECOM ROOM TRAY ALIGNMENT, BEND RADIUS TREATMENT

NOT TO SCALE



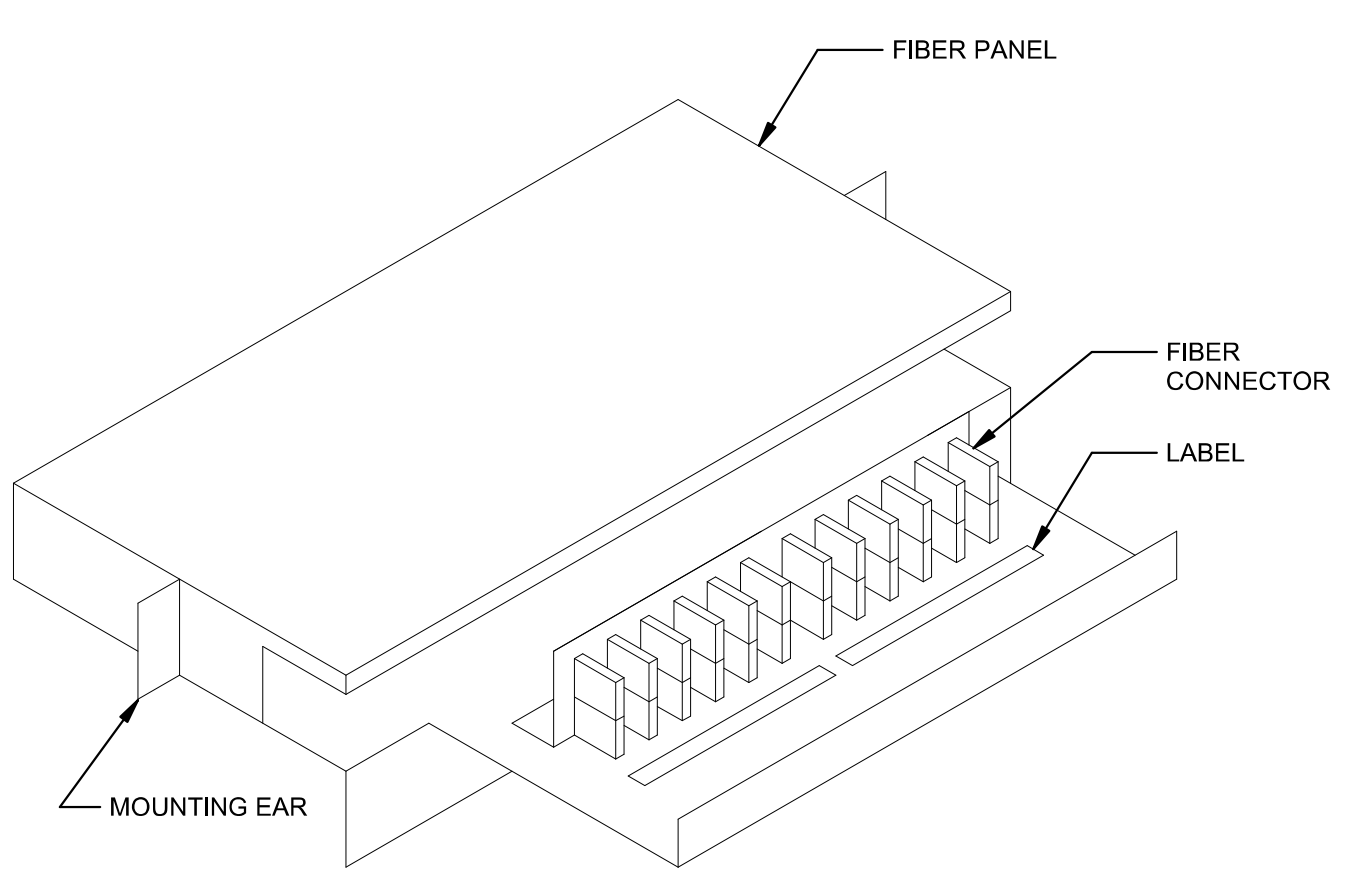
D1 FLOOR BOX

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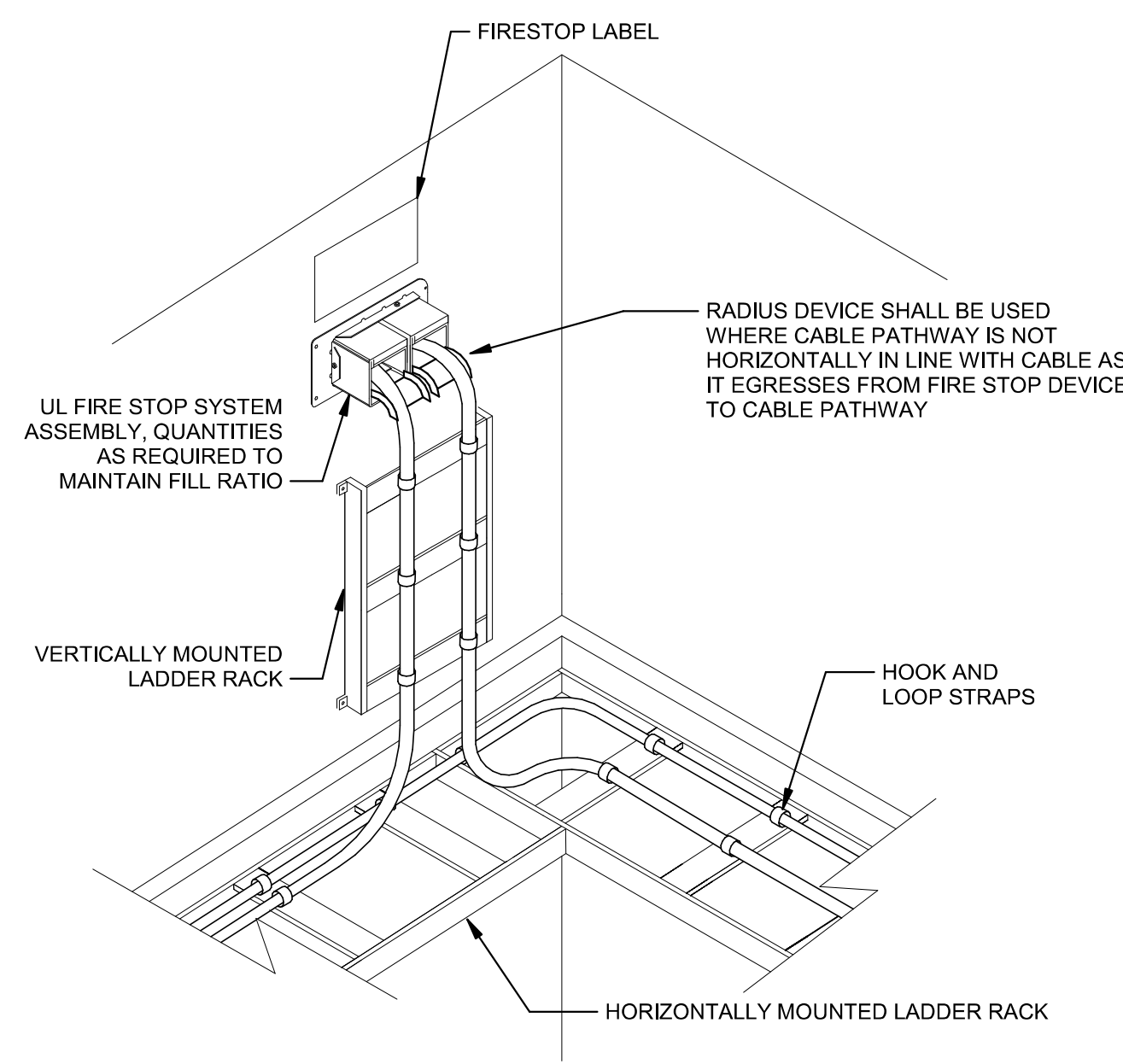
1 FIBER PANEL

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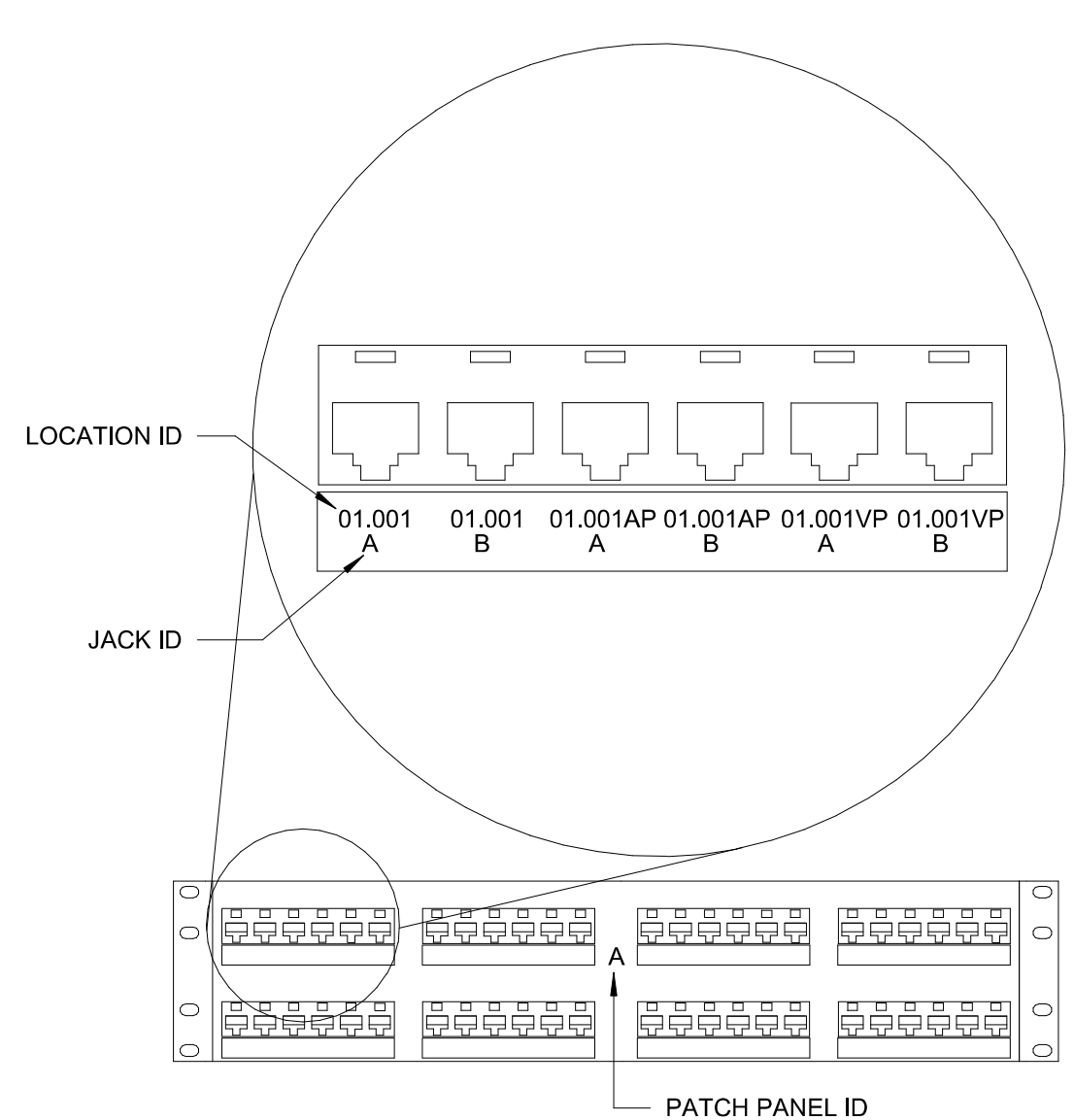
A4 FIRE STOP SYSTEM

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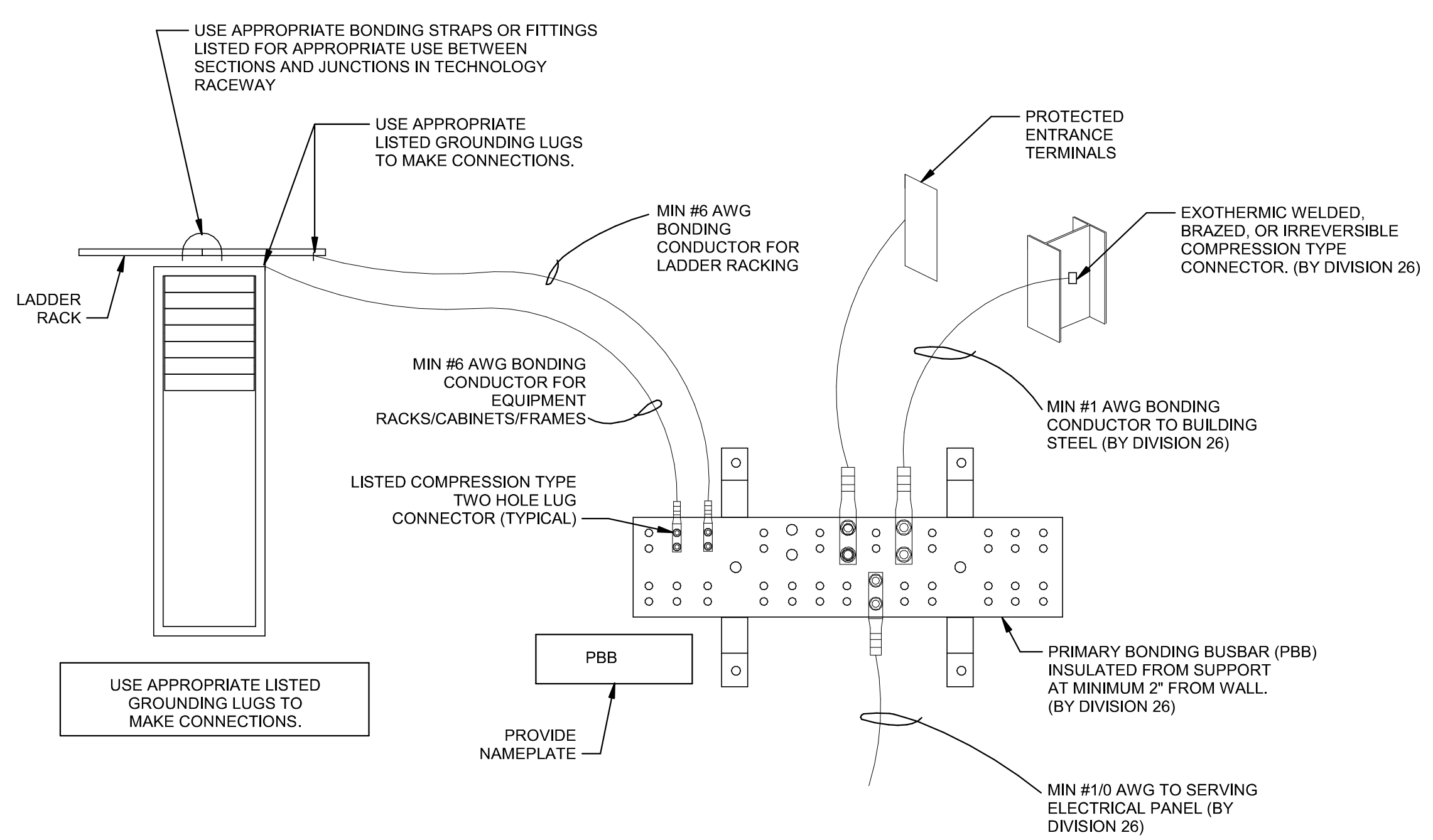
A7 TYPICAL PATCH PANEL LABELING DETAIL

NOT TO SCALE



D5 PBB CONNECTIONS DIAGRAM

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FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100 % CONSTRUCTION DOCUMENT DRAWINGS

REVISIONS:

#	Description	Date
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10/19/2022

PROJECT NO: 2150001291

DATE: 10.19.2022

DRAWN BY: J.CORONADO

CHK'D BY: M.MAURER

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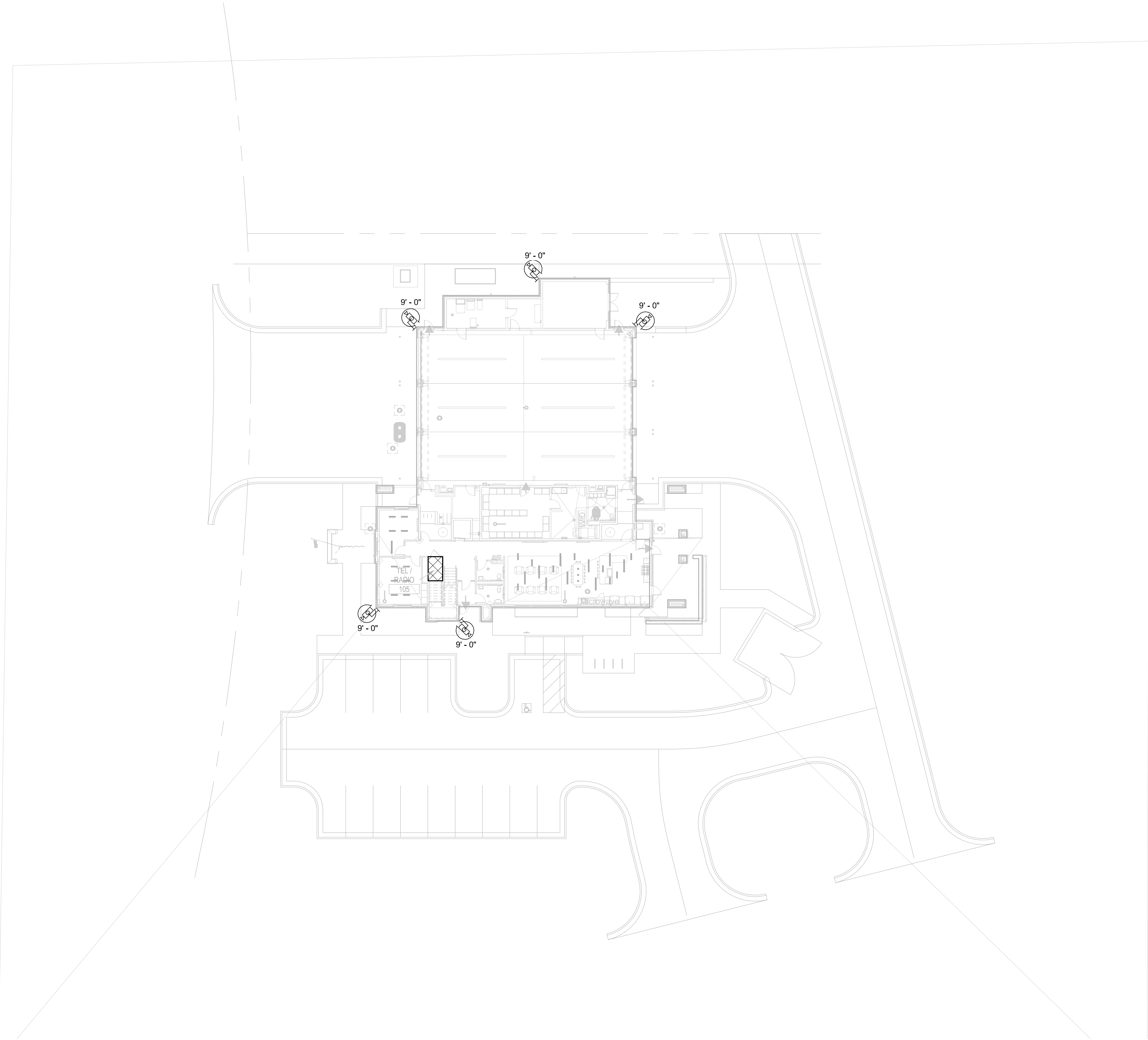
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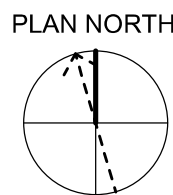


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SECURITY SITE PLAN

1" = 20'-0"

0 4' 8' 16'

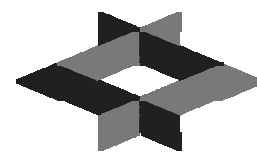


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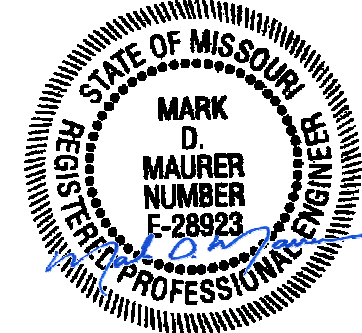
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SECURITY SITE
PLAN

TY100

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PLAN NORTH

A diagram showing a circle with a vertical line passing through its center. A dashed line is drawn from the center to the upper-left quadrant, forming an angle with the vertical line. The angle is labeled with an arc and the number 15.

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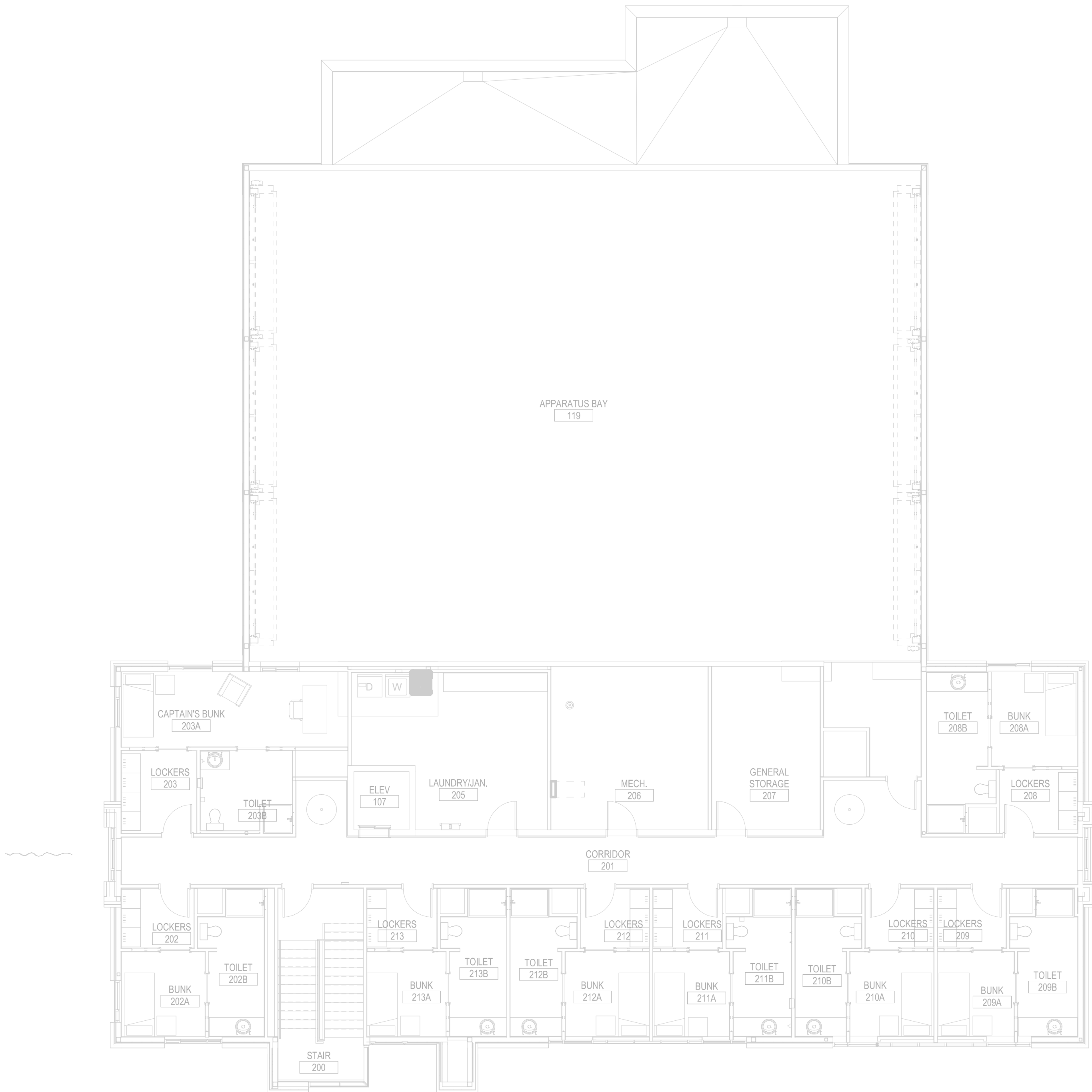
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A1

SECURITY LEVEL 2 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'



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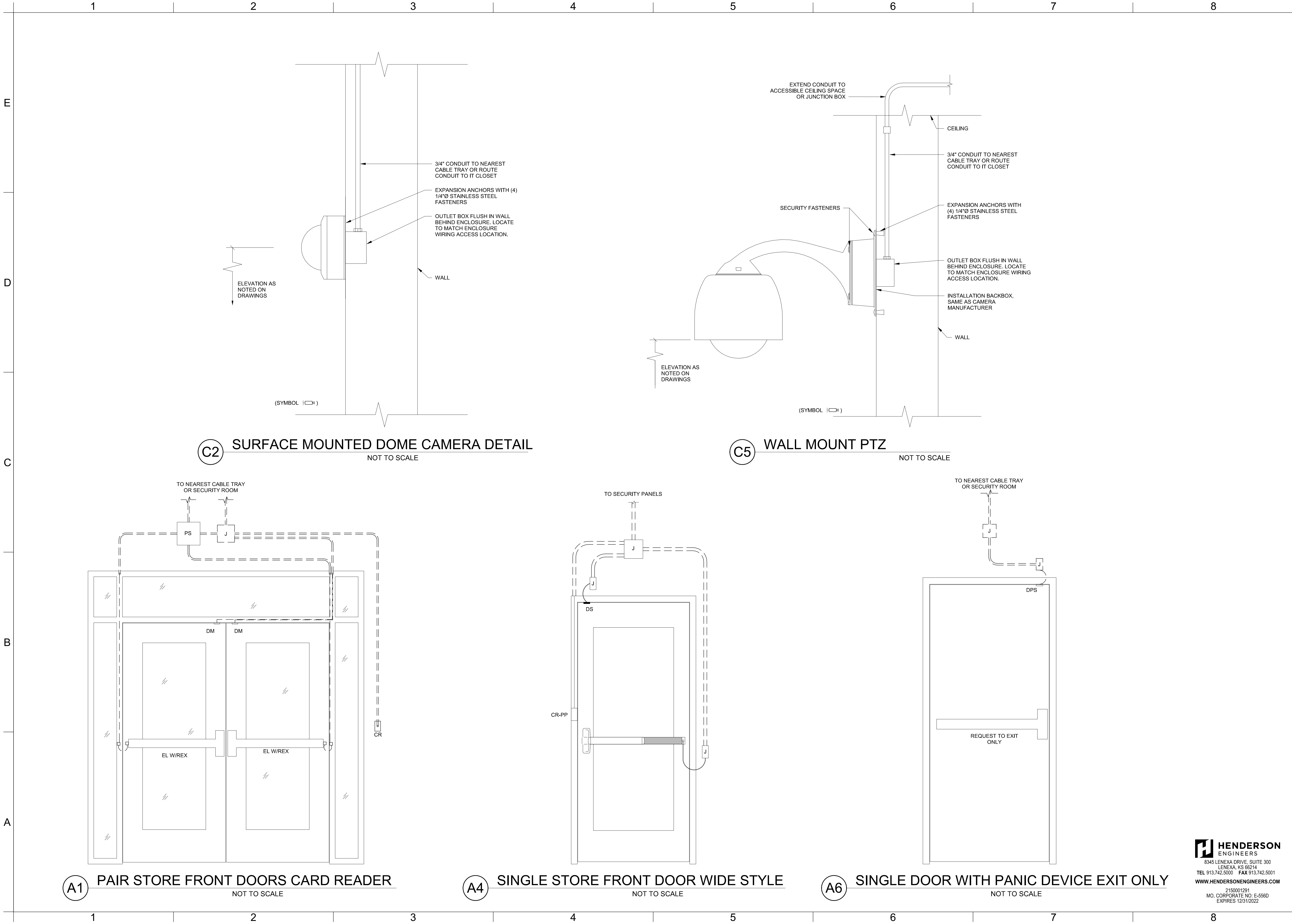
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SECURITY LEVEL
2 PLAN

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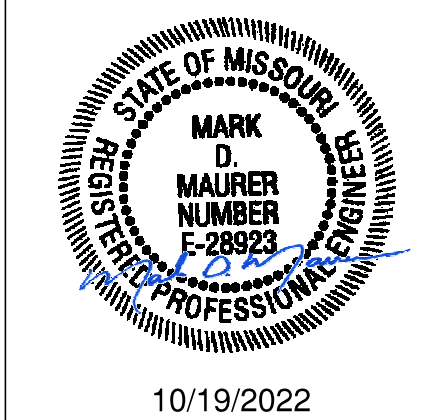
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