

USD 419 CANTON - GALVA SCHOOLS

TRACK RENOVATION & VO/AG BUILDING

CANTON, 24-3521 KANSAS

REFERENCE LEGEND

1-A1

DETAIL REFERENCE
REF # - SHT. #

A-A1

DETAIL REFERENCE
REF # - SHT. #

A1.1

INTERIOR ELEVATION
REFERENCE

100'-0"

FIN. FLR.

ELEVATION
DESIGNATION

1

DOOR MARK

4

WINDOW MARK

CUT LINE

4

PARTITION MARK

101

WAITING

A-A1

PROJECTED VIEW
OF PHOTOGRAPH
REF # - SHT. #

SB

CEILING ELEVATION
& MATERIAL

PROJECT NORTH

TRUE NORTH

DRAWING NAME

SCALE

DRAWING SCALE

DRAWING REF #

MATERIAL LEGEND

BATT INSULATION

BRICK MASONRY

COMPACTED EARTH

RIGID INSULATION

POURED CONCRETE

WALL W/ BRICK
VENEER

METAL STUD WALL

CONCRETE WALL

WOOD STUD WALL

C.M.U. WALL

PLYWOOD

ROUGH WOOD

FINISH WOOD

METAL STUD

GLASS LARGE SCALE

STRUCTURAL STEEL

CONC. MASONRY
UNIT SECTION

MTL JOIST

MTL FURRING

PRECAST CONC.
SLAB

ABBREVIATIONS

&	AND	Cntr.	Center	Exp.	Expansion	Hr.	Hour	N.I.C.	North	Reinf.	Reinforced	Temp.	Tempered
@	Angle	Col.	Column	Ext.	Exterior	Fgt.	Height	N.I.C.	Not In Contract	Req'd	Required	T.&G.	Thick
C	Centerline	Conc.	Concrete	F.A.	Fire Alarm	I.D.	Inside Diameter	No. or #	Number	Resil.	Resilient	T.M.	Top Of Masonry
Ø	Diameter or Round	C.T.	Ceramic Tile	F.D.	Floor Drain	Insul.	Insulation	Nom.	Nominal	Rm.	Room	T.O.S.	Top Of Steel
#	Pound or Number	CMU	Concrete Masonry Unit	F.D.	Foundation	Int.	Interior	N.T.S.	Not To Scale	R.O.	Rough Opening	T.P.	Top Of Pavement
Acous.	Acoustical	Cr.	Center	F.E.	Fire Extinguisher	Jan	Janitor	O/	On or Over	S.	South	T.P.D.	Toilet Paper Dispenser
Adj.	Adjustable	Dbl.	Double	F.E.C.	F.E. Cabinet	Jt.	Joint	Obs.	Obscure	S.B.	Splash Block	T.V.	Television
A.F.F.	Above Finished Floor	Det.	Detail	F.F.	Finish	Kit.	Kitchen	O.C.	On Center	S.C.	Solid Core	T.W.	Tackwall
Aggr.	Aggregate	D.F.	Drinking Fountain	Fl.	Flash.	Lab.	Laboratory	O.D.	Outside	S.D.	Soap Dispenser	Typ.	Typical
Al.	Aluminum	Dia.	Diameter	Fl.	Flash.	Lam.	Laminate	Opp.	Opposite	Sect.	Section	Trd.	Tread
Apprx.	Approximate	Dm.	Down	Ft.	Foot or feet	Lav.	Lavatory			Sht.	Shower	U.O.N.	Unless Otherwise Noted
Arch.	Architect or Architectural	Dr.	Door	Ftg.	Footing	Lkr.	Locker			Sh.	Sheet	Ur.	Urinal
Asb.	Asbestos	Dwg.	Downspout	Furr.	Furring	Lt.	Light	P.	Paint	Sim.	Similar		
Asph.	Asphalt	Dwr.	Drawer	Fut.	Future	Mas.	Masonry	Pi.	Plate	S.N.D.	Sanitary Napkin Disp.	V.C.T.	Vinyl Composition Tile
A.V.	Audio Visual	(E)	Existing	Ga.	Gauge	Max.	Maximum	P.Lam.	Plastic Laminate	S.N.R.	Sanitary Napkin Recep.	V.T.	Vinyl Tile
Bd.	Board	E.C.	East or Existing	Galv.	Galvanized	M.C.	Medicine Cabinet	Plas.	Plaster	Spec.	Specification	Vert.	Vapor Barrier
Bitum.	Bituminous	E.G.	Each	G.B.	Grab Bar	Mech.	Mechanical	Plywd.	Plywood	Sst.	Stainless Steel	Vest.	Vestibule
Blk.	Block	Elev.	Elevation	Gd.	Grade	Mem.	Membrane	Pr.	Pair	Std.	Standard	Vyl.	Vinyl
Blk.g.	Blocking	Elev.	Elevation	Gyp.	Gypsum	Met.	Metal	P.T.D.	Paper Towel Dispenser	Stor.	Storage		
Bm.	Beam	Elec.	Electrical	H.B.	Hose Bibb	Mfr.	Manufacturer	Ptn.	Partition	Stri.	Structural		
Bot.	Bottom	Eq.	Equipment	H.C.	Hollow Core	Mir.	Mirror	P.T.R.	Paper Towel Receptacle	Susp.	Suspended		
Bot. BY OWNER	Bottom BY OWNER	Eq.	Equipment	H.C.	Hollow Core	Misc.	Miscellaneous	Q.T.	Quarry Tile	Sym.	Symmetrical		
Brg.	Bearing	Exp.	Exposed	H.C.	Hollow Core	Misc.	Miscellaneous	R.	Riser	Tex.	Texture		
Brk.	Brick	Exp.	Exposed	H.C.	Hollow Core	Misc.	Miscellaneous	R.ad.	Radius	T.B.	Towel Bar		
Cab.	Cabinet	Exp.	Exposed	H.C.	Hollow Core	Misc.	Miscellaneous	R.D.	Roof Drain	T.Bd.	Tack Board		
Cg.	Ceiling			H.C.	Hollow Core	Misc.	Miscellaneous	Ref.	Reference				
Cf.	Clear			H.C.	Hollow Core	Misc.	Miscellaneous						

JGR

JonesGillamRenz

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1881 Main Street, Suite 301 Kansas City, MO 64108 jgr@jgrarchitects.com

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CONSULTANTS

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Kansas City, MO 64111
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info@bdc-engrs.com

PERMIT SET 10-17-2025

PROJECT INFORMATION

TYPE OF CONSTRUCTION	NEW BUILDING
FACILITY NAME	CANTON-GALVA JR/SR HIGH SCHOOL
FACILITY ADDRESS	508 S. KANSAS AVE GALVA, KS
OWNER NAME	USD 419 CANTON-GALVA
OWNER ADDRESS	109 S MAIN, PO BOX 317 CANTON, KS 67428
REASON FOR SUBMITTAL	NEW BUILDING
COUNTY	McPHERSON
FIRE DEPARTMENT	CITY OF GALVA
WATER SUPPLY	CITY OF GALVA
BUILDING INSPECTION DEPT	CITY OF GALVA
AUTHORITY HAVING JURISDICTION	CITY OF GALVA
ARCHITECT	JONES GILLAM RENZ ARCHITECTS, INC. 730 N. NINTH ST. SALINA, KS 67401 ph: 785-827-0386
CODES/REGULATIONS	2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL PLUMBING CODE 2017 NATIONAL ELECTRIC CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2010 ADA STANDARDS for ACCESSIBLE DESIGN 2012 NFPA 101 LIFE SAFETY CODE KANSAS FIRE PREVENTION CODE NFPA 72 (2010) – FIRE ALARM SYSTEMS

LEGEND

DESIGNATED EMERGENCY EXIT	68"/24.4" ← EXIT WIDTH (ACTUAL/REQUIRED) 122/340 ← OCCUPANT LOAD (ACTUAL/ALLOWED)
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0 HOUR CONSTRUCTION	-----
1 HOUR FIRE PARTITION	=====
W/ 45min OPENINGS	-----

EXIT LIGHT	⊗
FIRE EXTINGUISHER	● FE
EMERGENCY LIGHT	⌋
FIRE HYDRANT	● FH

OCCUPANCY GROUP (AU – ACCESSORY USE)	EXAMPLE:
OCCUPANCY USE	A-1
ROOM SQUARE FOOTAGE/OCCUPANT LOAD FACTOR	ASSEMBLY HALL
OCCUPANT LOAD/REQUIRED NUMBER OF EXITS	5,550 15
	370 2

CODE INFORMATION

OCCUPANCY OVERALL:	MIXED OCCUPANCY
OCCUPANCY GROUPS:	B BUSINESS S-1 STORAGE
CONSTRUCTION TYPE:	V-B
BASIC ALLOWABLE AREA:	B 9,000sf S-1 9,000sf

ALLOWABLE AREA INCREASE:	
(NON-SEPERATED USES. PER IBC SEC. 508.3.3)	
BASE ALLOWABLE	9,000 SF
AREA INCREASE (8.33%)	750 SF
TOTAL ALLOWABLE AREA	9,750 SF

ACTUAL BUILDING AREA:	
STORAGE MEZZANINE	881 SF
FIRST FLOOR	5,000 SF
TOTAL	5,000 SF
(MEZZANINE NOT INCLUDED IN TOTAL PER IBC SEC. 505)	

BASIC ALLOWABLE STORIES:	1
ACTUAL STORIES:	1
BASIC ALLOWABLE HEIGHT:	40'
ACTUAL HEIGHT:	24'

FIRE RESISTANCE RATING FOR BUILDING ELEMENTS	V-B
EXTERIOR BEARING WALLS:	0 HOUR
STRUCTURAL FRAME:	0 HOUR
INTERIOR BEARING WALLS:	0 HOUR
INTERIOR NON-BEARING WALLS:	0 HOUR
SHAFT ENCLOSURES:	NA
FLOOR/CEILING ASSEMBLY:	0 HOUR
CEILING/ROOF ASSEMBLY:	0 HOUR

OCCUPANCY SEPARATIONS: (NON-SEPERATED USES. PER IBC SEC. 508.3.3)	
ALLOWABLE AREA & HEIGHT CALCULATIONS ARE BASED ON THE MOST RESTRICTIVE USE. DIFFERENT USES ARE NOT SEPARATED BY FIRE BARRIERS.	

INCIDENTAL SEPARATIONS: (PER IBC TABLE 509)	
SHOP AREA SEPARATED FROM CLASSROOMS – 1 HOUR RATING	

SPECIAL CONDITIONS:	
EXIT & EMERGENCY LIGHTING	
PORTABLE FIRE EXTINGUISHERS	

FIRE ALARM REQUIREMENTS:	
PROVIDED PER NFPA 72	

AUTOMATIC FIRE SUPPRESSION SYSTEM:	
NOT REQUIRED, NOT PROVIDED	

EMERGENCY POWER SOURCE:	
EXIT SIGNS, EXIT ILLUMINATION & EMERGENCY LIGHTING IS BY BATTERY BACK-UP	
NOTE- EMERGENCY BACK-UP LIGHTING IS INTEGRATED WITH INTERIOR LED LIGHTING SYSTEM FIXTURES.	

HAZARDOUS MATERIALS: (PER IBC TABLE 307.1(1))	
NO HAZARDOUS MATERIALS ARE TO BE STORED	

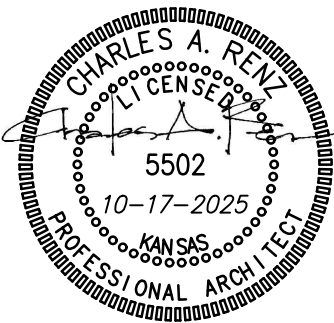
SMOKE PARTITIONS:	SMOKE CONTROL:	STANDPIPES:
NOT REQUIRED	NOT REQUIRED	NOT REQUIRED

OCCUPANT LOAD:	124 (CALCULATED) 68 ACTUAL
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EXITING:	REFERENCE PLAN
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OCCUPANT LOAD FACTORS:	
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OCCUPANCY	USE	LOAD FACTOR	OCCS=2-EXITS
S-1	STORAGE	300 sf/OCCUPANT	29
B	OFFICE	100 sf/OCCUPANT	49

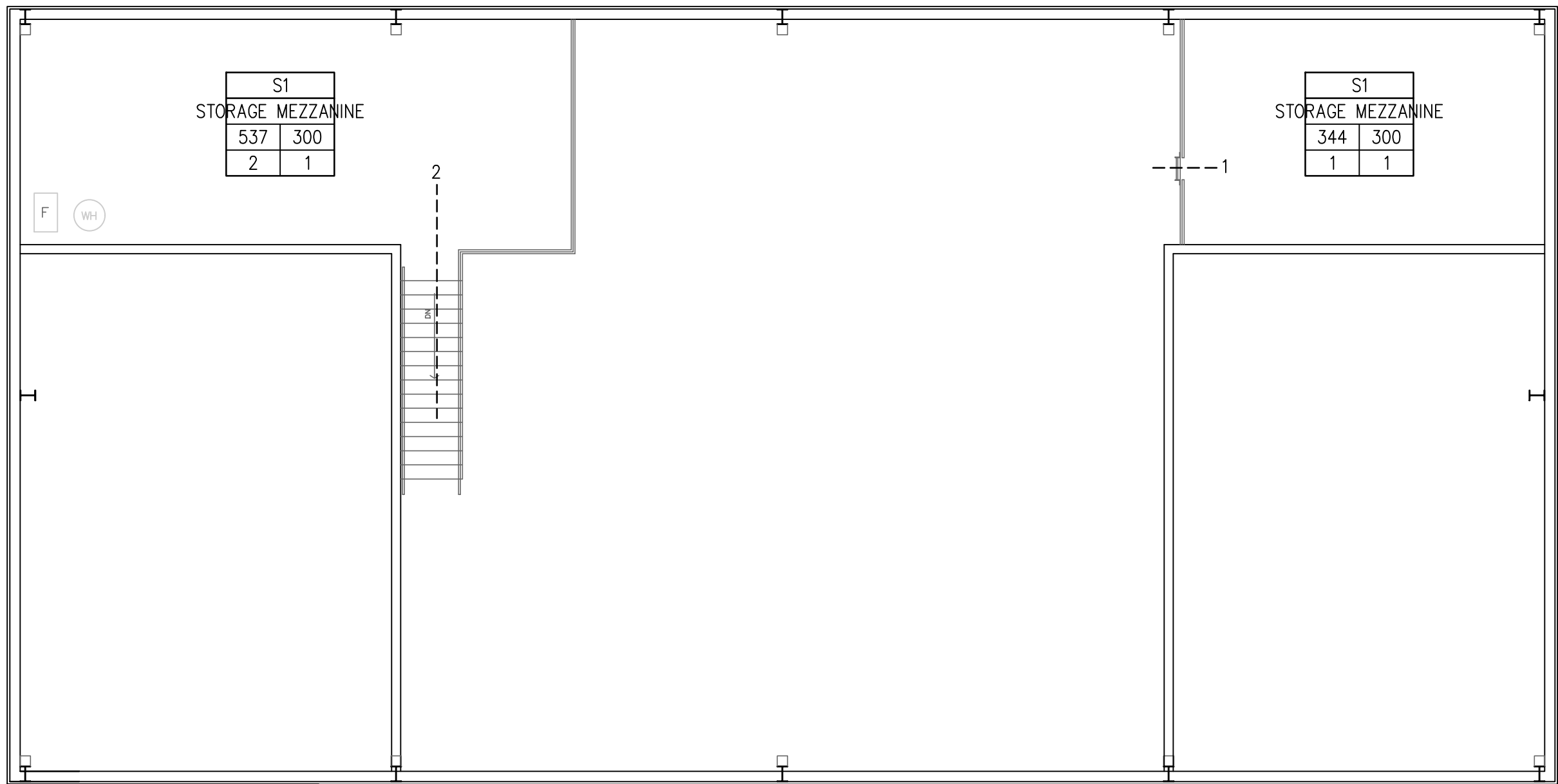


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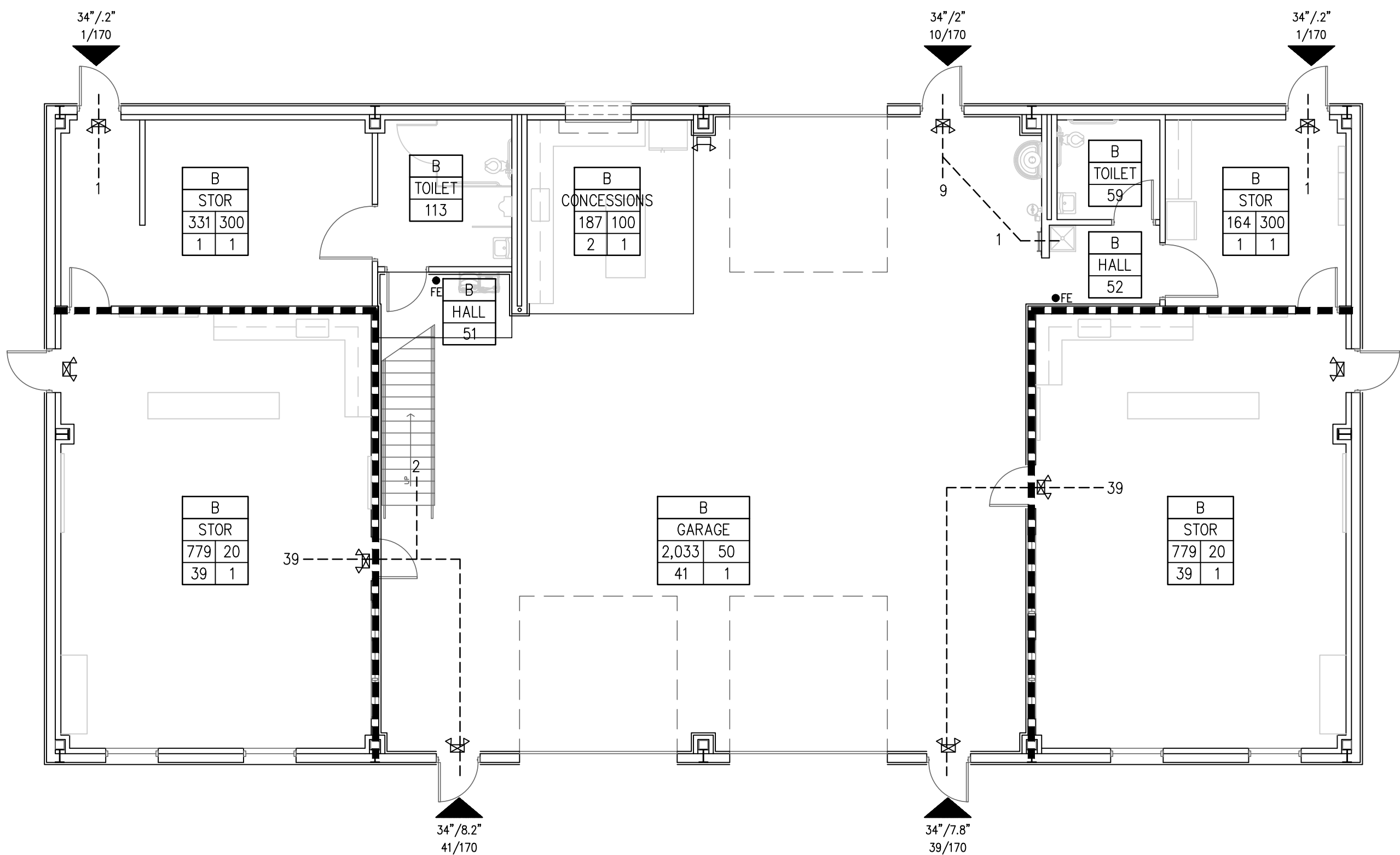
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JOB: 24-3521

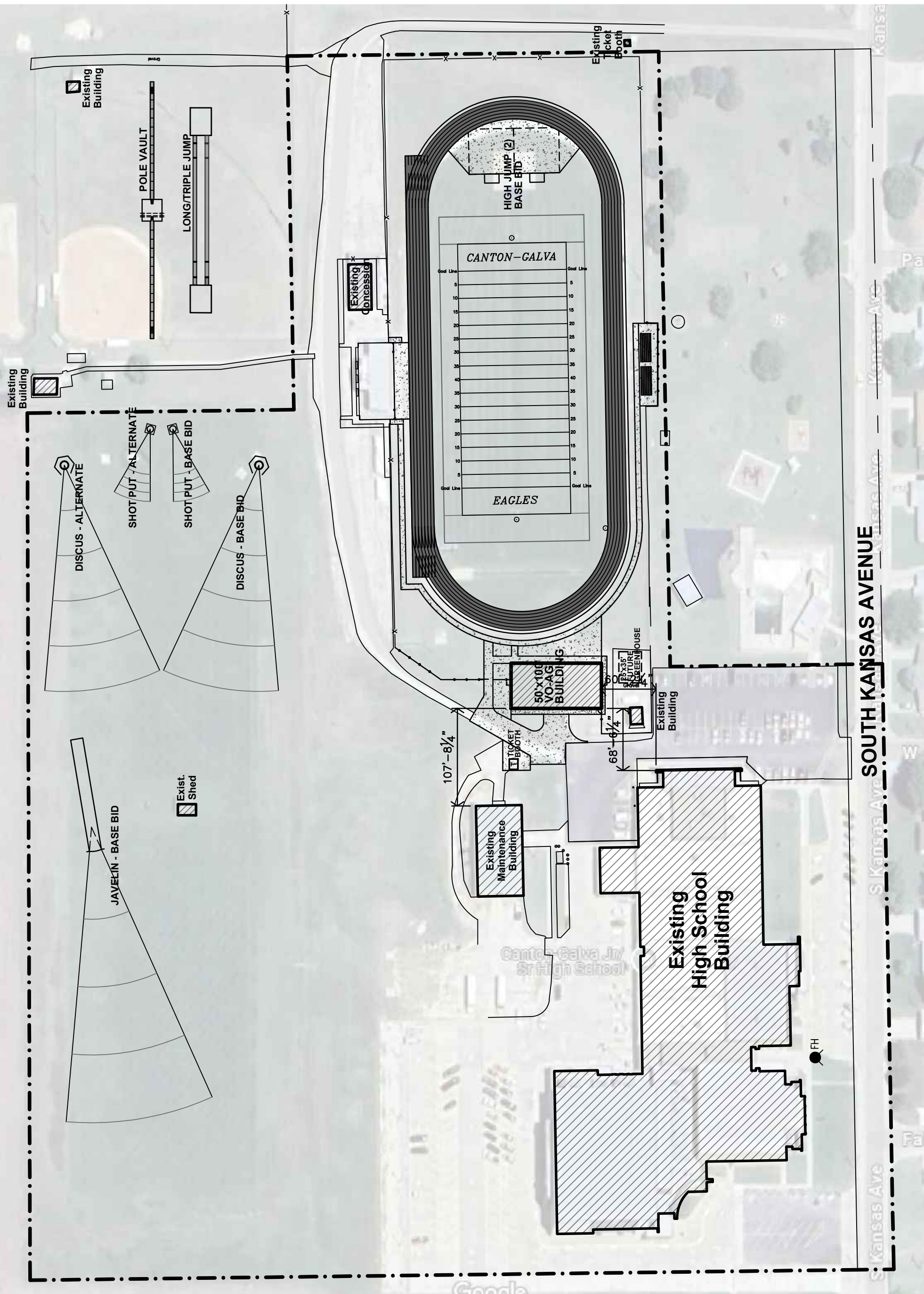
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C VO-AG BUILDING FLOOR PLAN

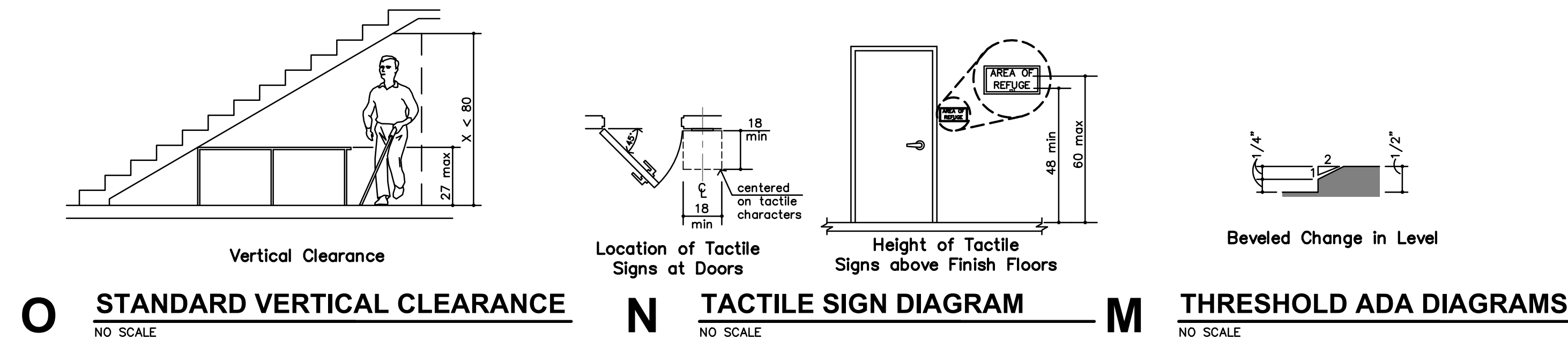
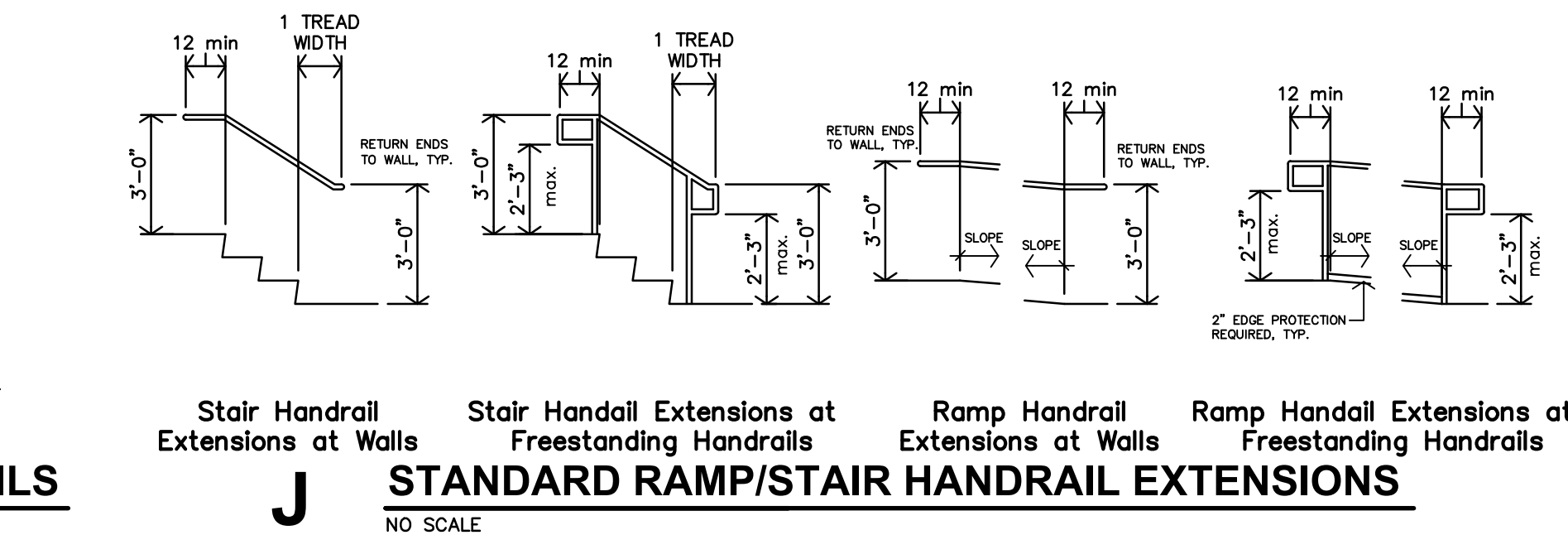
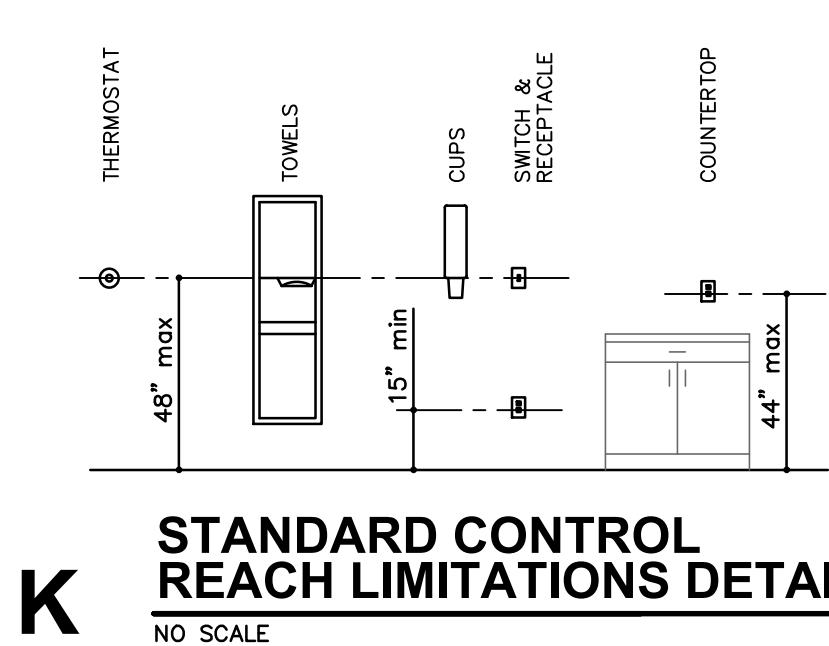
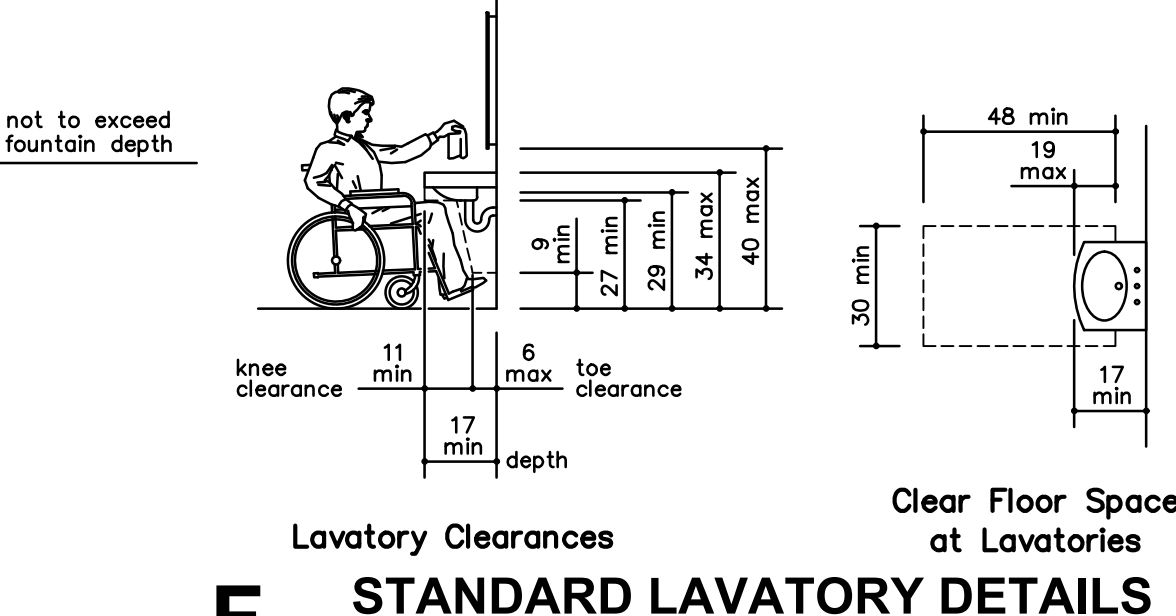
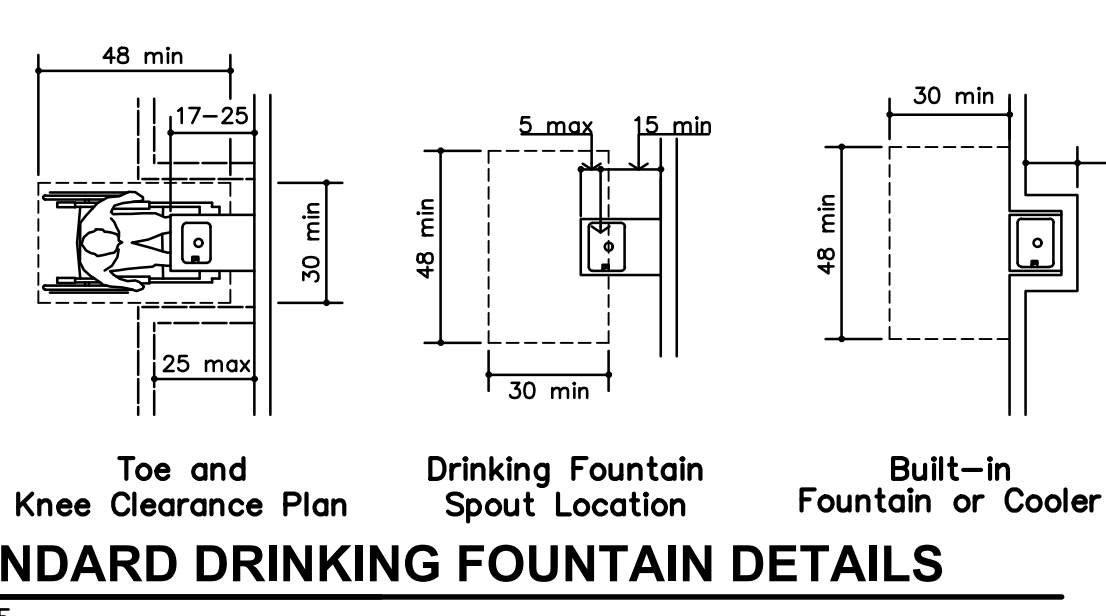
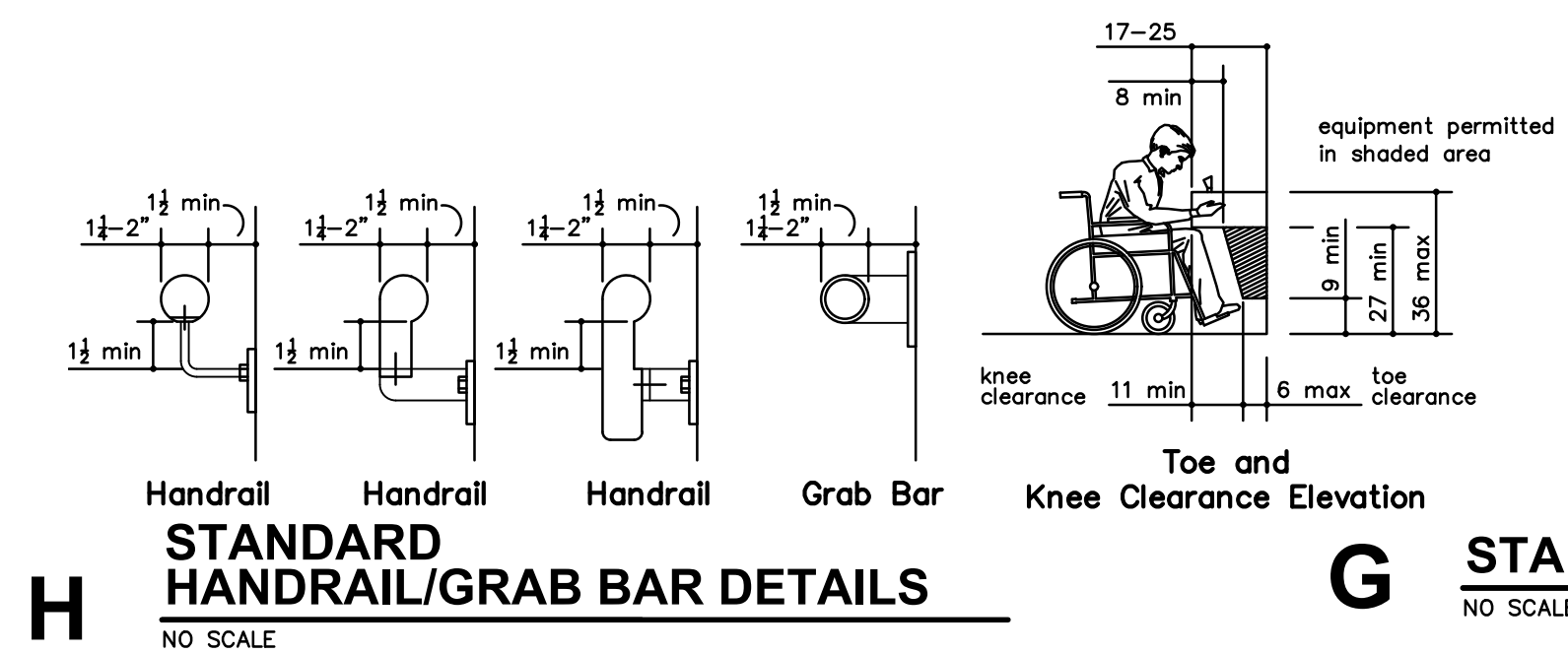
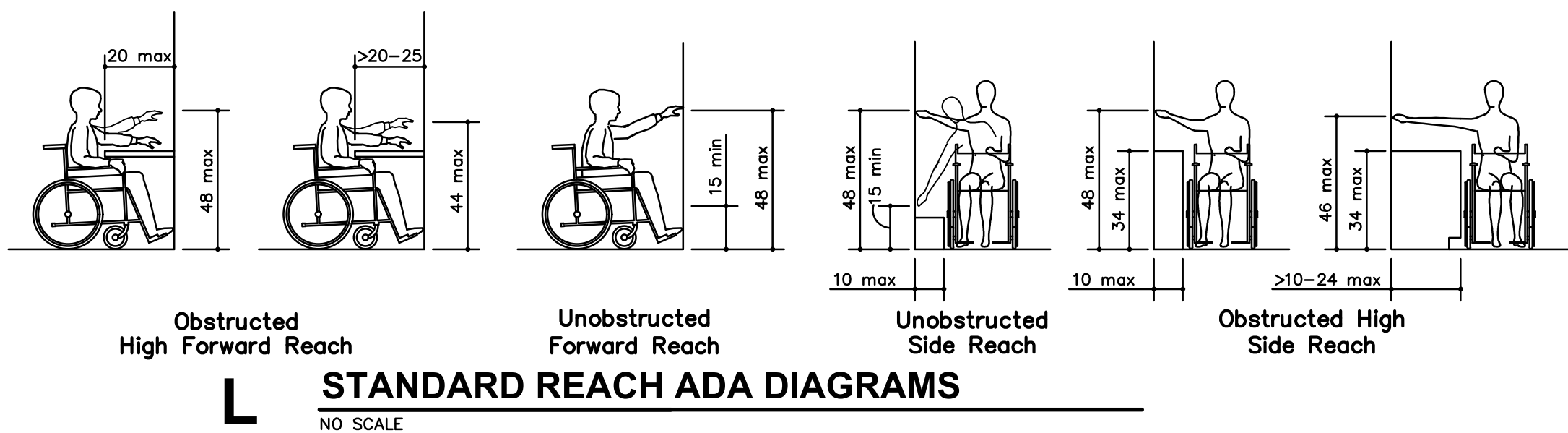
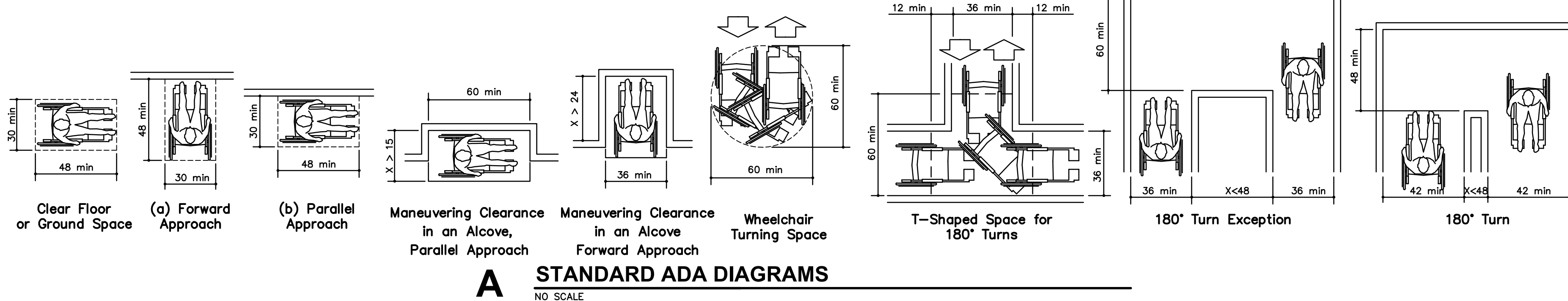
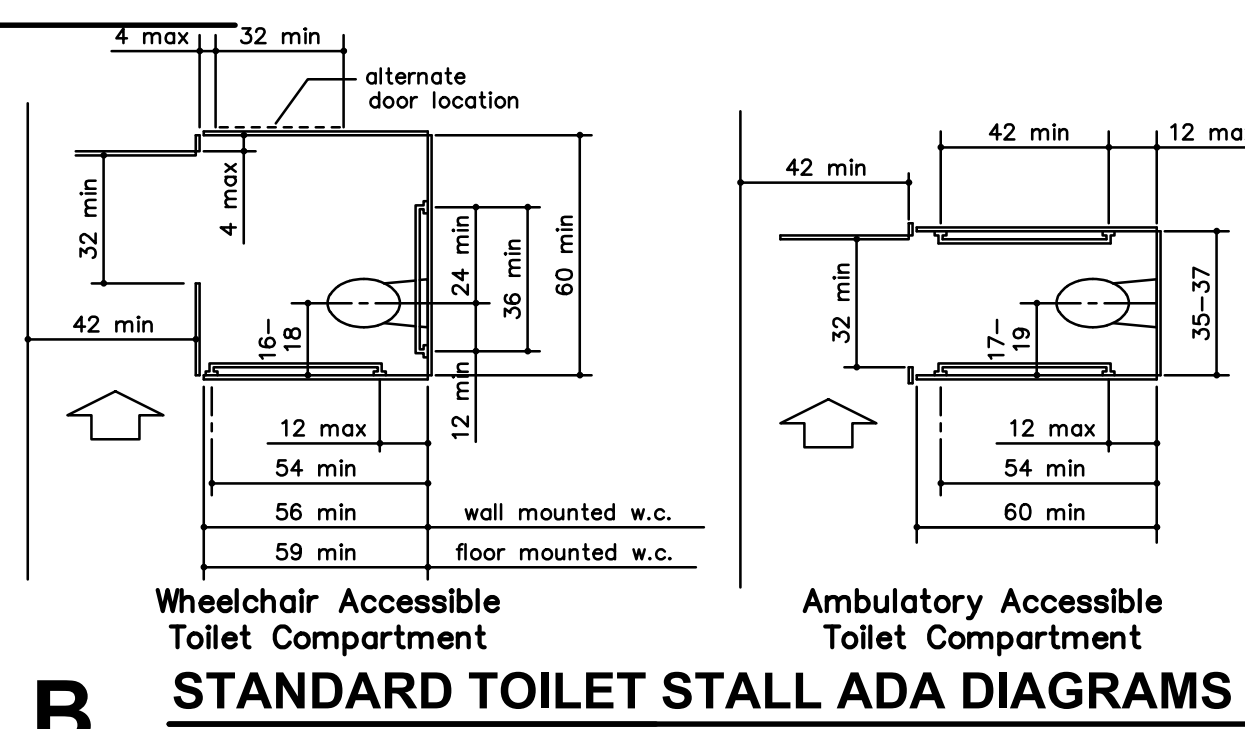
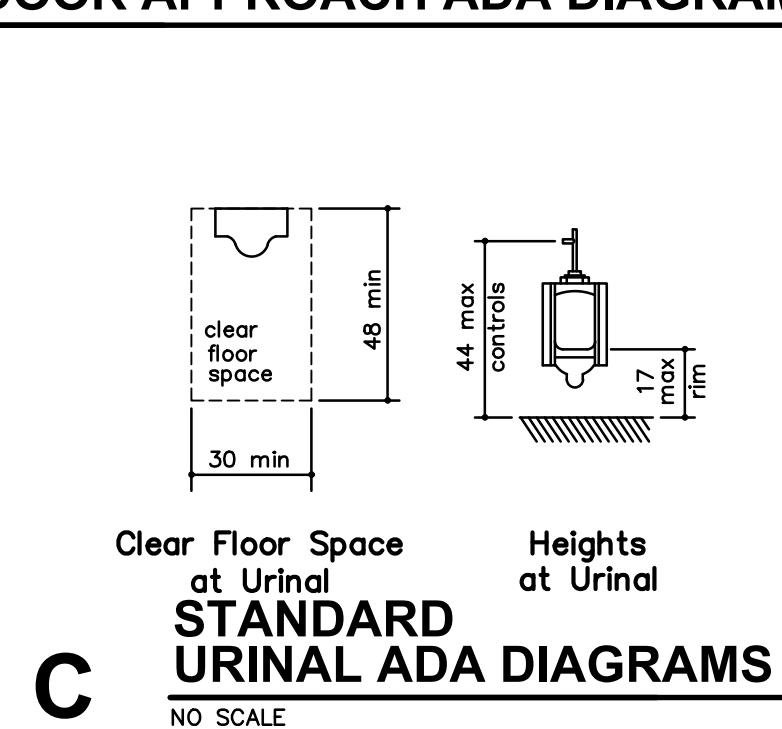
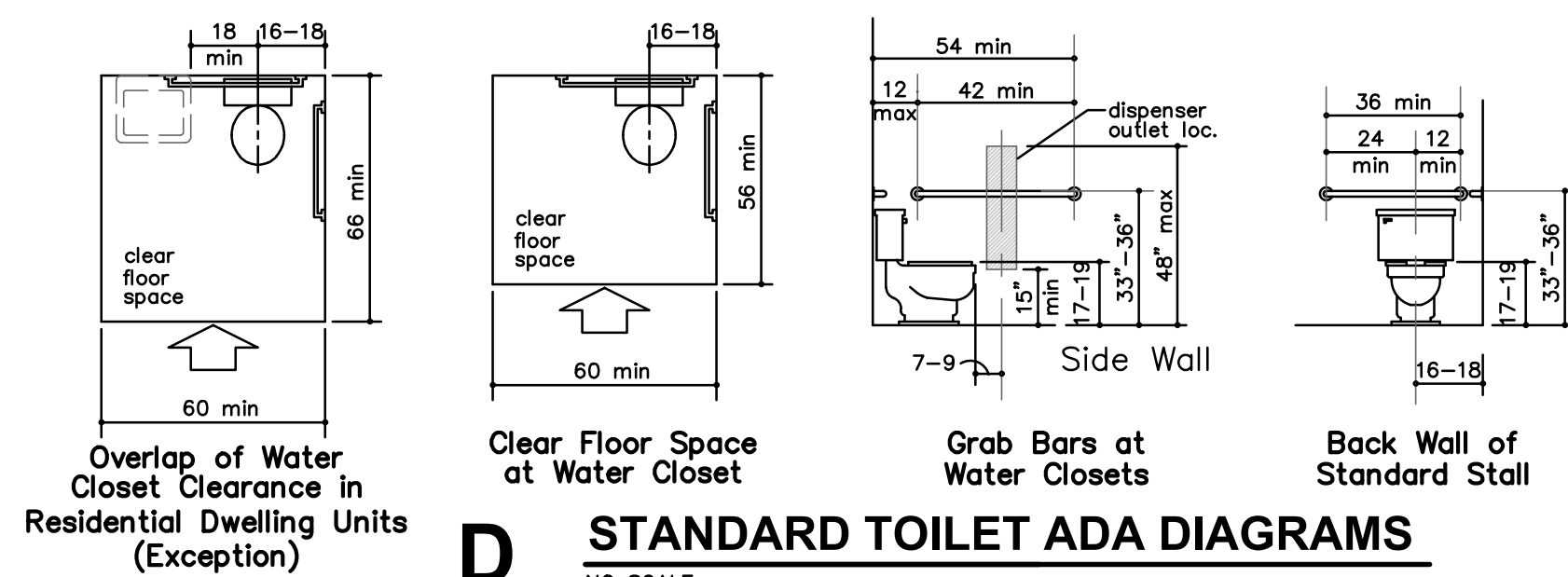
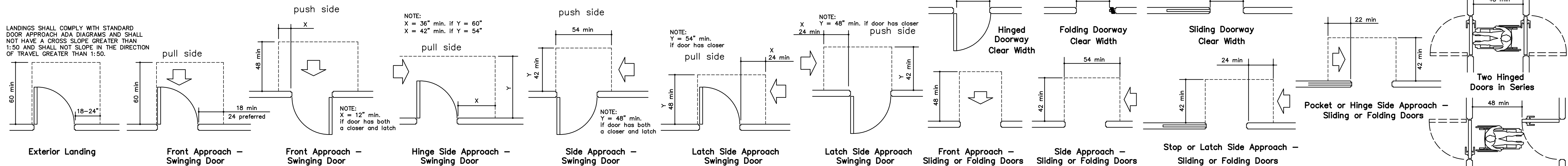


B VO-AG BUILDING FLOOR PLAN

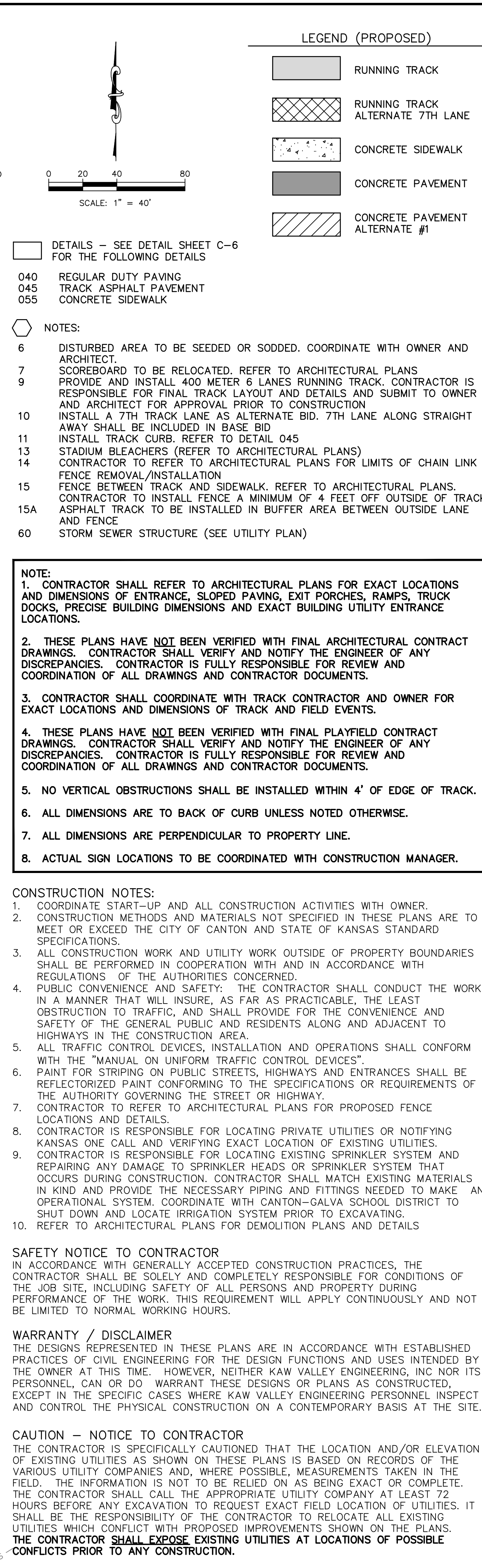


A SITE PLAN

LANDINGS SHALL COMPLY WITH STANDARD DOOR APPROACH ADA DIAGRAMS AND SHALL NOT HAVE A CROSS SLOPE GREATER THAN 1:50 AND SHALL NOT SLOPE IN THE DIRECTION OF TRAVEL GREATER THAN 1:50.



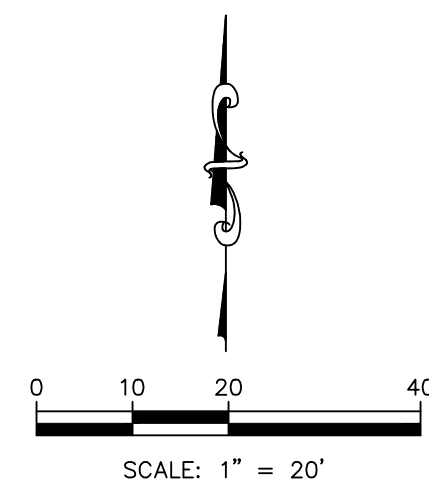
FOR REFERENCE ONLY



USD 419 CANTON-GALVA VO-AG AND TRACK 506 SOUTH KANSAS AVENUE CANTON, KANSAS 67428		 KAW VALLEY ENGINEERING 1627 SUNFLOWER LANE SALINA, KANSAS 67401 PH. (785) 823-3400 sae@kveeng.com www.kveeng.com KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/26				CIVIL PLANS SITE & DIMENSION PLAN	
PROJ. NO.		E25D4062		M/JR		TDA	
DESIGNER		DRAWN BY		0		10/16/25	
CFN		4062SP		REV		DATE	
SHEET		C-1		INITIAL ISSUE		M/JR	
		0		DESCRIPTION		DSN	
		0		CHK		M/JR	

MATCH LINE SEE SHEET C-1

JAVELIN RUNWAY, BASE BID,
SEE ARCHITECTURAL PLANS



LEGEND (PROPOSED)

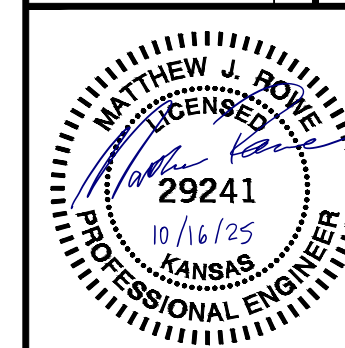
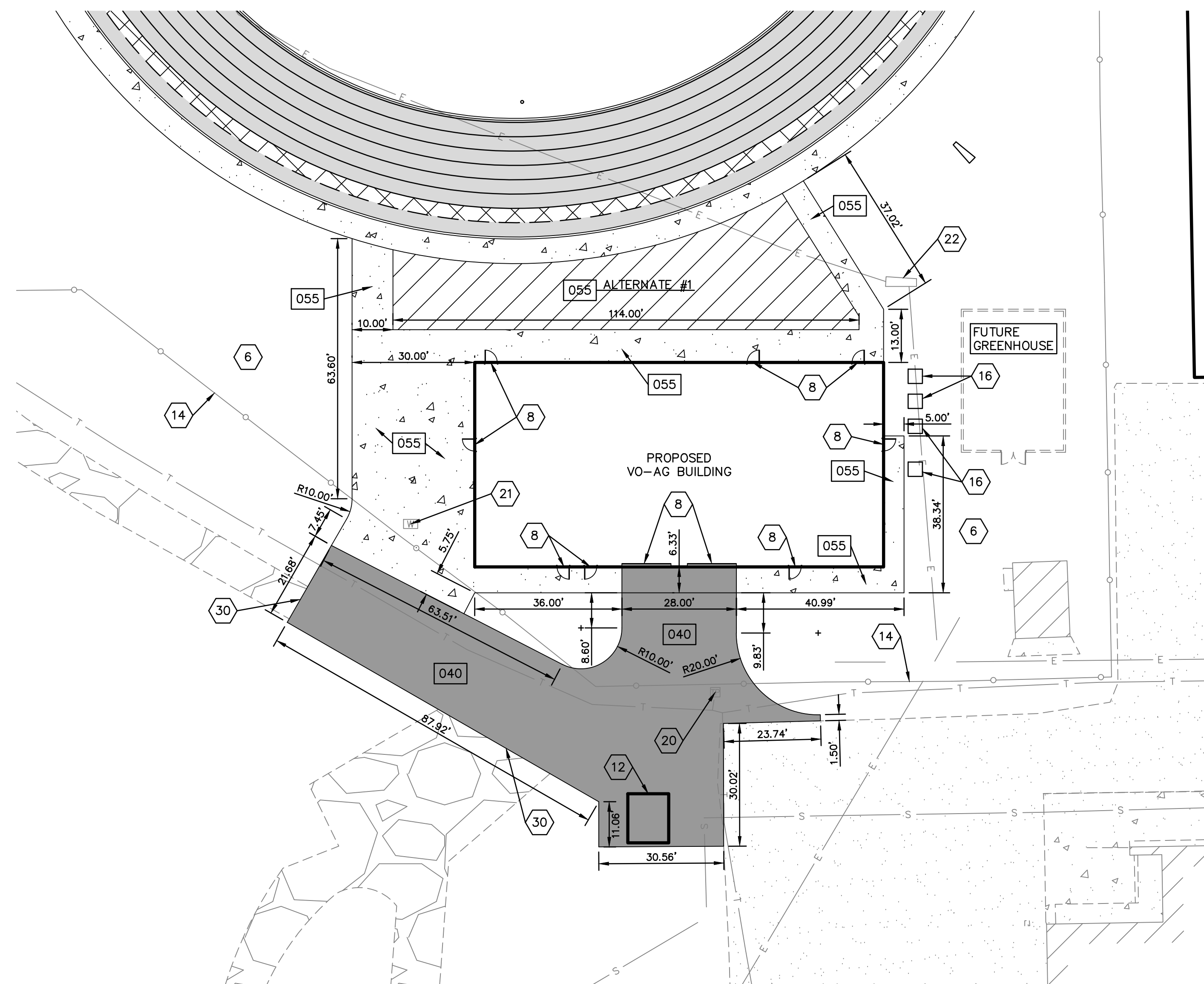
- | | |
|---|-------------------------------------|
|  | RUNNING TRACK |
|  | RUNNING TRACK
ALTERNATE 7TH LANE |
|  | CONCRETE SIDEWALK |
|  | CONCRETE PAVEMENT |
|  | CONCRETE PAVEMENT
ALTERNATE #1 |


 DETAILS - SEE DETAIL SHEET C-6
 FOR THE FOLLOWING DETAILS

- 040 REGULAR DUTY PAVEMENT
055 CONCRETE SIDEWALK

NOTES:

- 6 DISTURBED AREA TO BE SEEDDED OR SODDED
8 ENTRY (SEE ARCHITECTURAL PLANS)
12 TICKET BOOTH (REFER TO ARCHITECTURAL PLANS)
14 CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR LIMITS OF
CHAIN LINK FENCE REMOVAL/INSTALLATION
16 OUTDOOR UNIT (SEE MEP PLANS)
20 TELEPHONE PEDESTAL TO BE RELOCATED OUT OF PAVED AREA.
CONTRACTOR TO COORDINATE WITH UTILITY COMPANY. CONTRACTOR IS
RESPONSIBLE FOR ANY FEES ASSOCIATED WITH RELOCATION.
21 EXISTING WATER STRUCTURE TO BE RELOCATED OUT OF PAVED
AREA AS POSSIBLE, AND ADJUSTED TO FINISHED GRADE.
CONTRACTOR TO COORDINATE WITH OWNER.
22 ELECTRICAL STRUCTURE TO REMAIN. CONTRACTOR TO NOTIFY
ENGINEER OF ANY POTENTIAL CONFLICTS.
30 CONTRACTOR TO REMOVE AND INSTALL GRAVEL AS NECESSARY TO
PROVIDE TRANSITION FROM PROPOSED PAVEMENT TO EXISTING GRAVEL



MATTHEW J. ROWE
ENGINEER
KS # 29241

KAW VALLEY ENGINEERING

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PH. (785) 823-5400
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KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING
KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-115.
EXPIRES 12/31/26

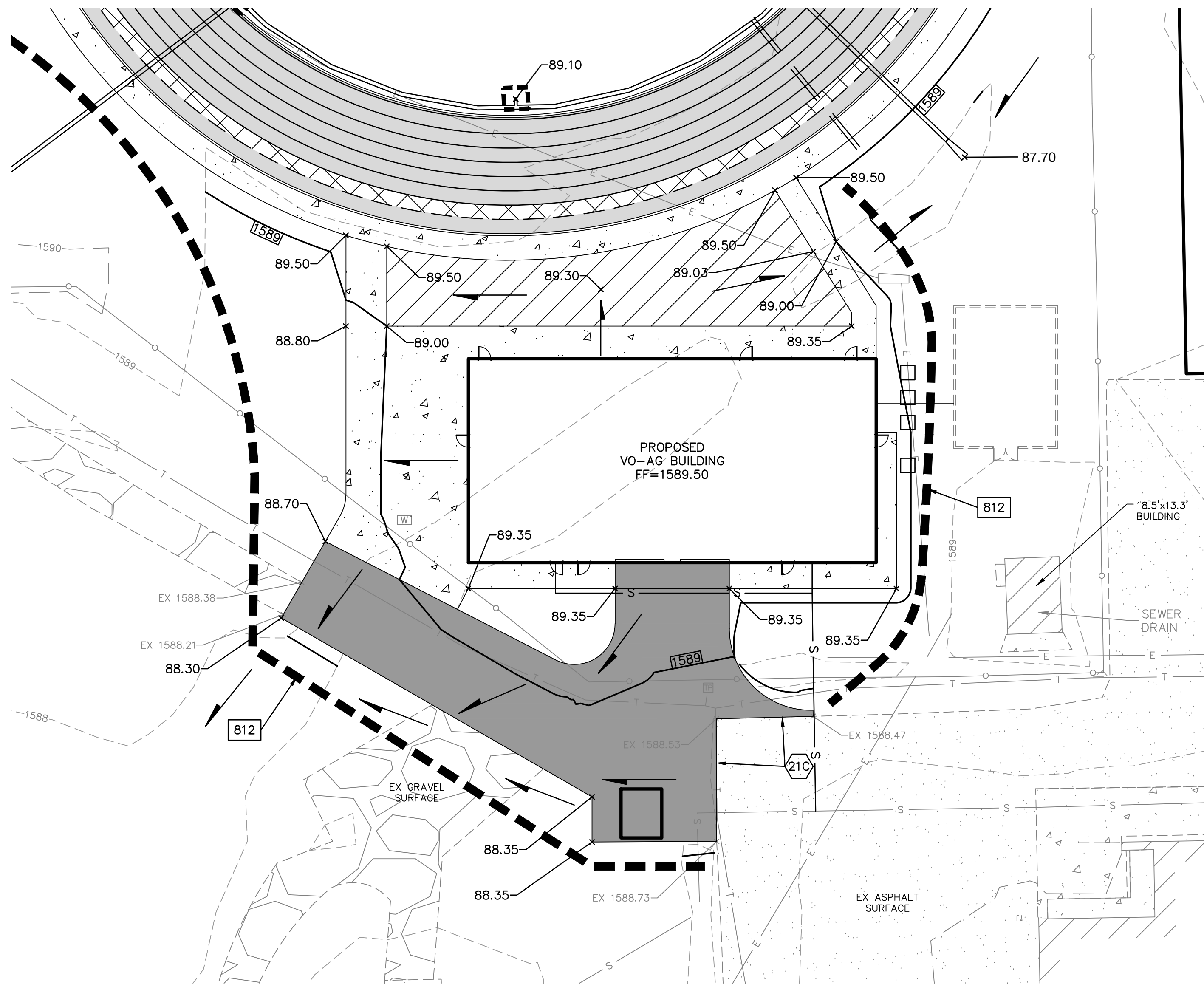
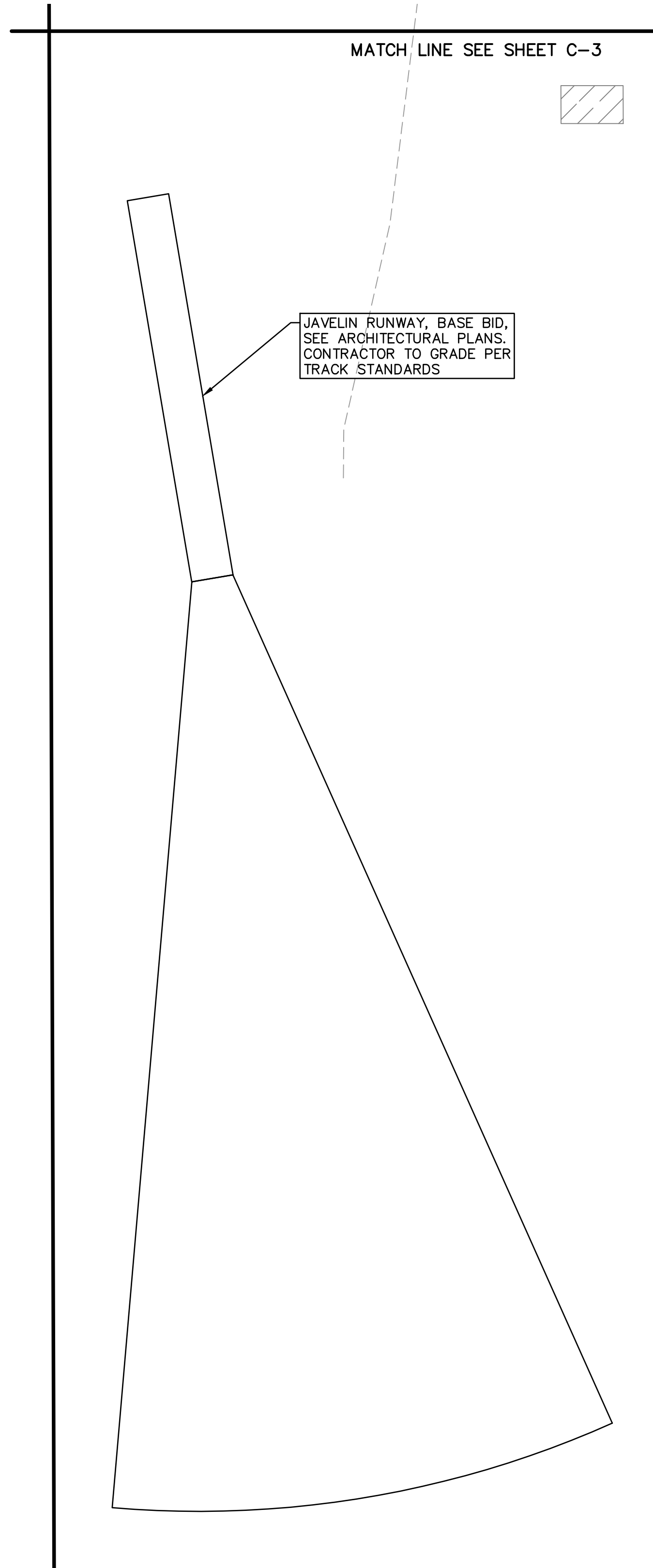
**USD 419 CANTON-GALVA VO-AG AND TRACK
1506 SOUTH KANSAS AVENUE
CANTON, KANSAS 67428**

CIVIL PLANS
SITE & DEMENSION PLAN - ENLARGED VIEWS

PROJ. NO.		E25D4062	
DESIGNER		DRAWN BY	
MJR		TDA	
CFN			
4062SP			
SHEET		REV	
C-2		0	



USD 419 CANTON-GALVA VO-AG AND TRACK 506 SOUTH KANSAS AVENUE CANTON, KANSAS 67428		 KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/26		1627 SUNFLOWER LANE SALINA, KANSAS 67401 PH. (785) 823-3400 so@kvaleng.com www.kvaleng.com				MATTHEW J. ROWE ENGINEER KS # 29241		0 10/16/25 INITIAL ISSUE		M/JR TDA M/JR		DSN DWN CHK	
CIVIL PLANS GRADING & EROSION CONTROL PLAN		E25D4062		4062GP		0		REV		DATE		DESCRIPTION		CHK	
PROJ. NO.		DESIGNER		CFN		SHEET		C-3		M/JR		TDA		M/JR	




 DETAILS - SEE DETAIL SHEET NO. C-7
 FOR THE FOLLOWING DETAILS

812 SEDIMENTATION FENCE

82.95 SPOT ELEVATION (ADD 1500)
X TOP OF PAVEMENT

— FLOW DIRECTION

- - - - -1589- - - - - EXISTING GROUND CONTOUR (1' INTERVALS)

1589 PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)

— SEDIMENTATION FENCE

— STRAW WATTLE

SAFETY NOTICE TO CONTRACTOR
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

CAUTION – NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

THE COORDINATES PROVIDED ON THIS PLAN ARE FOR INFORMATION AND CHECKING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE CONSTRUCTION STAKING COORDINATES ACCORDING TO THE DIMENSIONS SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE COORDINATES SHOWN HEREON BEFORE CONSTRUCTION.

GRADING NOTES:
1. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL BE REMOVED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES.

2. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 8-INCH DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.

3. OFF-SITE FILL MATERIAL SHALL HAVE A PLASTICITY INDEX BETWEEN 10 AND 25, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN THREE INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE OWNER PRIOR TO BRINGING ON SITE.

4. EARTHWORK UNDER THE BUILDING SHALL COMPLY WITH THE PROJECT ARCHITECTURAL PLANS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. FILL MATERIAL MAY INCLUDE ROCK FROM ON-SITE EXCAVATION IF CAREFULLY PLACED SO THAT LARGE STONES ARE WELL DISTRIBUTED AND VOIDS ARE COMPLETELY FILLED WITH SMALLER STONES, EARTH, SAND OR GRAVEL TO FURNISH A SOLID EMBANKMENT. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 12 INCHES OF EMBANKMENT.

5. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A MODERATELY HEAVY LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.

6. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

8. ALL SLOPES ARE TO BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED

9. ALL SLOPES EXCEEDING 3:1 SHALL BE PROTECTED BY RIP RAP, CONCRETE PAVING, OR OTHER METHODS INDICATED ON THESE PLANS, THAT WILL PREVENT EROSION AND PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED.

10. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON-SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEED, FERTILIZED, MACHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED. IF ANY AREAS ARE DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. CONTRACTOR TO REFER TO FINISH GRADING NOTES ON SHEET C-3

11. CONTRACTOR SHALL USE SILT FENCE, STRAW WATTLES OR OTHER MEANS OF CONTROLLING EROSION ALONG THE EDGE OF THE PROPERTY OR OTHER BOTTOM OF SLOPE LOCATIONS.

12. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.

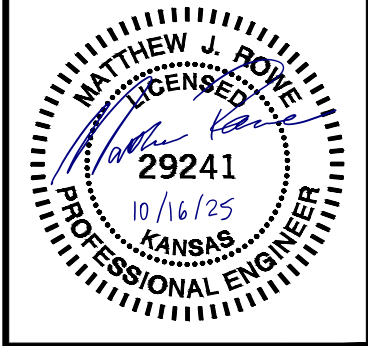
13. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.

14. IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.

15. PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF END SECTIONS.

16. HANDICAP STALLS SHALL MEET ADA REQUIREMENTS AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION AT THE BUILDING ENTRY AND ACCESSIBLE PARKING STALLS. SLOPES EXCEEDING 2.0% WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SIDEWALK RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2%.

	0	10/16/25	INITIAL ISSUE	MJR	TDA	MJR
			DESCRIPTION	DSN	DWN	CHK



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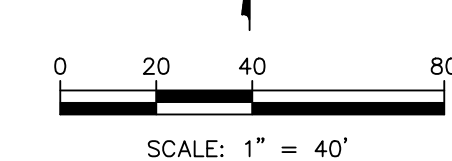
 **KAW VALLEY ENGINEERING**

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113.
EXPIRES 12/31/26

**USD 419 CANTON-GALVA VO-AG AND TRACK
506 SOUTH KANSAS AVENUE**

CIVIL PLANS
GRADING & EROSION CONTROL PLAN - ENLARGED VIEWS

PROJ. NO.		E25D4062	
DESIGNER		DRAWN BY	
MJR		TDA	
CFN			
4062GP			
SHEET		REV	
C-4		0	

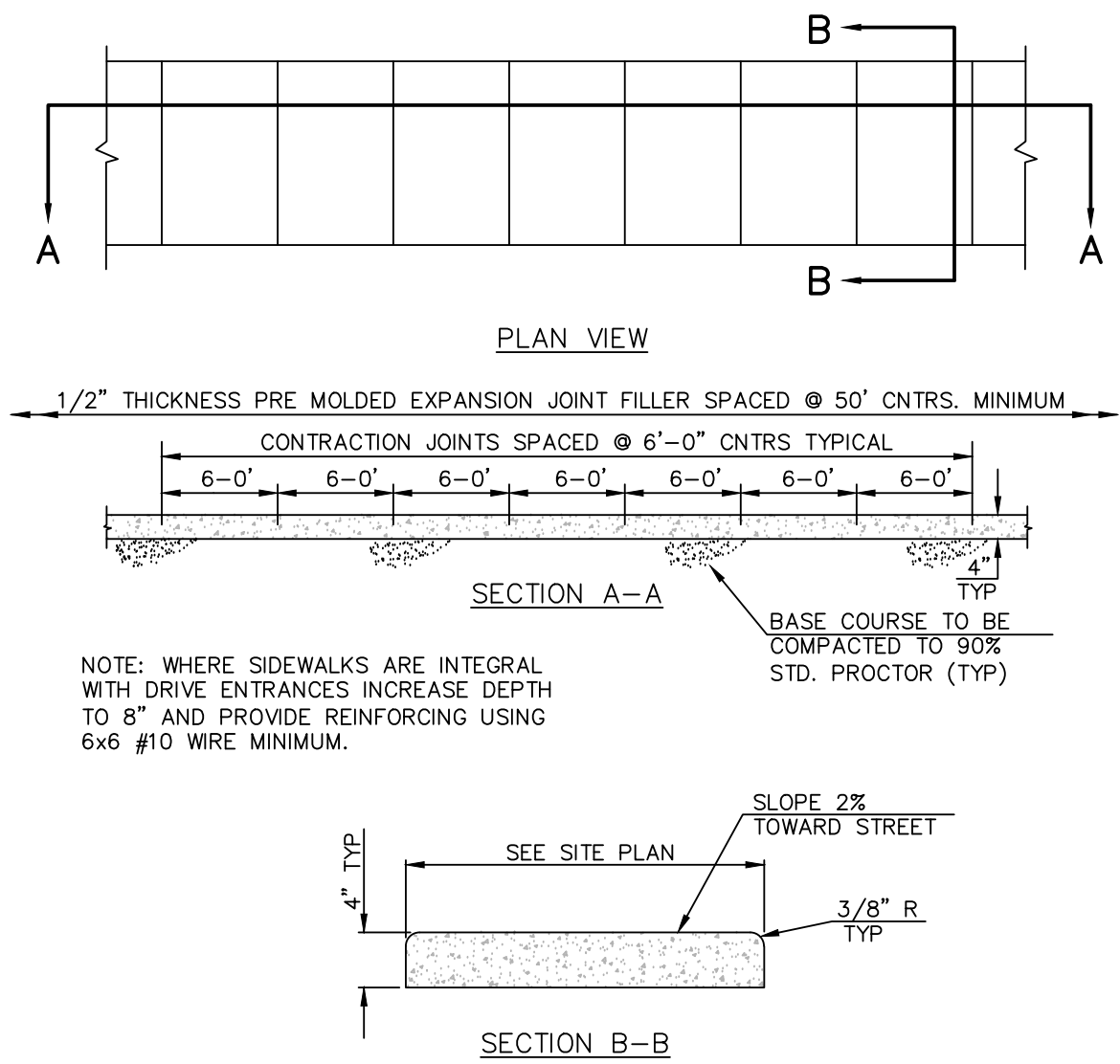


- NOTES:
- 20A CONNECT WATERLINE TO WATER MAIN. CONTRACTOR TO COORDINATE WITH OWNER FOR LOCATION OF WATER MAIN. CONTRACTOR TO COORDINATE IF WATER METER IS REQUIRED. MEET ALL CITY AND STATE STANDARDS
- 20B PROPOSE DOMESTIC WATER SERVICE LINE. REFER TO MEP PLANS FOR SIZE (MINIMUM BURIED DEPTH OF 42")
- 20C CONTRACT PROPOSED DOMESTIC WATER SERVICE LINE TO BUILDINGS. SEE MEP PLANS
- 25 TELEPHONE PEDESTAL TO BE RELOCATED OUT OF PAVED AREA. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY. CONTRACTOR IS RESPONSIBLE FOR ANY FEES ASSOCIATED WITH RELOCATION.
- 26 EXISTING WATER STRUCTURE TO BE RELOCATED OUT OF PAVED AREA AS POSSIBLE, AND ADJUSTED TO FINISHED GRADE. CONTRACTOR TO COORDINATE WITH OWNER.
- 27 ELECTRICAL STRUCTURE TO REMAIN. CONTRACTOR TO NOTIFY ENGINEER OF ANY POTENTIAL CONFLICTS.
- 30 CONTRACTOR TO INSTALL TWO (2) 2" CONDUITS AND CAP ENDS
- 70A CONNECT 4" SANITARY SEWER SERVICE TO EXISTING SANITARY SEWER LINE. EXISTING SEWER IS SHOWN PER SURVEY COMPLETED BY GARBER SURVEYING. CONTRACTOR TO VERIFY DEPTH, LOCATION AND CONDITION OF EXISTING LINE PRIOR TO CONSTRUCTION AND NOTIFY OWNER/ENGINEER OF POTENTIAL CONFLICTS.
- 70B 4" SANITARY SEWER SERVICE, PVC SDR 26 AT MINIMUM 2% SLOPE
- 70C SEE MEP PLANS FOR CONTINUATION OF SANITARY SEWER SERVICE LINE
- 70D SANITARY SEWER SERVICE LINE PER MEP PLANS (REFER TO MEP PLANS FOR DETAILS)
- 70E POINT OF CONNECTION TO BUILDING - SANITARY SEWER SERVICE (SEE MEP PLANS)

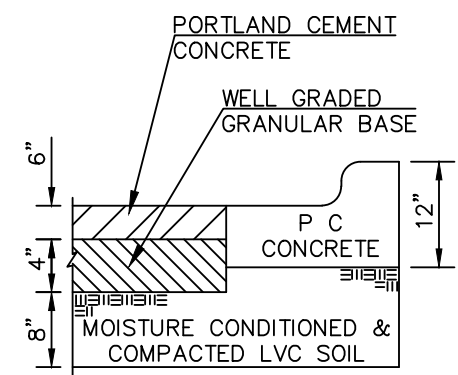
THE COORDINATES PROVIDED ON THIS PLAN ARE FOR INFORMATION AND CHECKING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE CONSTRUCTION STAKING COORDINATES ACCORDING TO THE DIMENSIONS SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE COORDINATES SHOWN HEREON BEFORE CONSTRUCTION.

UNDERGROUND UTILITY STATEMENT:
THE UNDERGROUND UTILITIES SHOWN HEREON ARE DEPICTED FROM FIELD SURVEY INFORMATION PROVIDED BY GARBOR ENGINEERING SERVICES DATED 6/12/2015. THE PLANS DO NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE ALL UNDERGROUND UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE PLANS DO NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION DEPICTED ALTHOUGH THEY ARE DEPICTED AS ACCURATELY AS POSSIBLE FROM INFORMATION MADE AVAILABLE.

1627 SUNFLOWER LANE SALINA, KANSAS 67401 PH. (785) 823-3400 sed@kveeng.com www.kveeng.com  KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/26										MATTHEW J. ROWE ENGINEER KS # 29241 										REV	DATE	DESCRIPTION	MJR	TDA	MJR	CHK
0										10/16/25	INITIAL	ISSUE														
C-5										0		10/16/25														

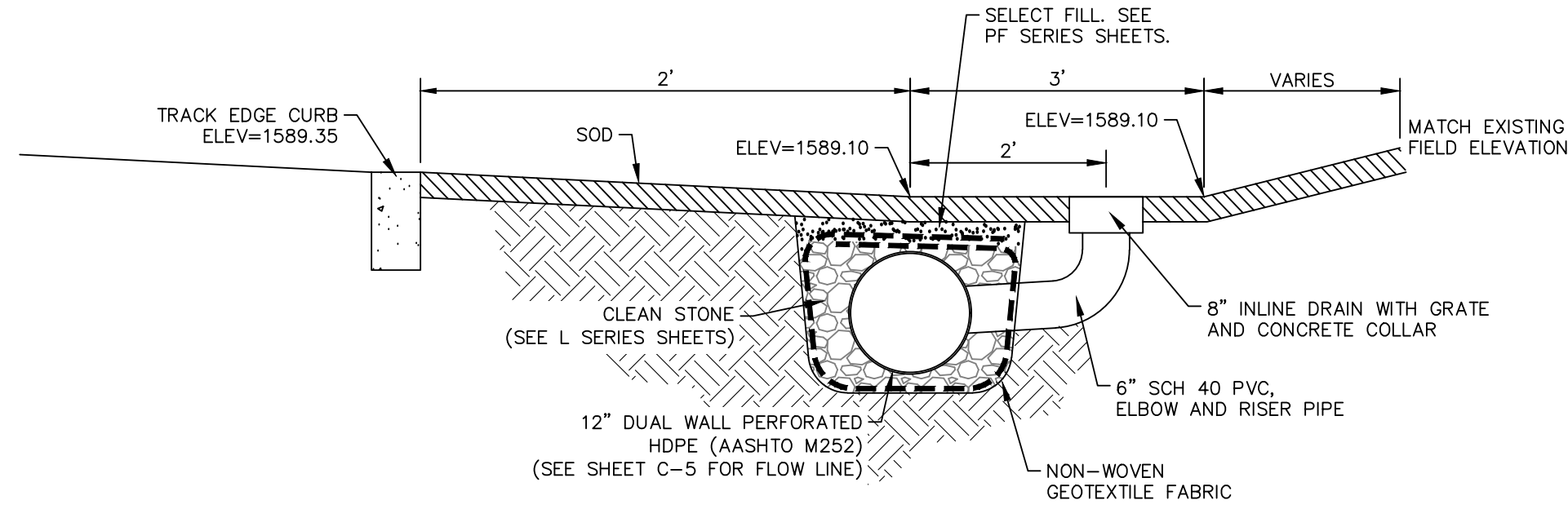


CONCRETE SIDEWALK 055



REGULAR DUTY PAVING 040

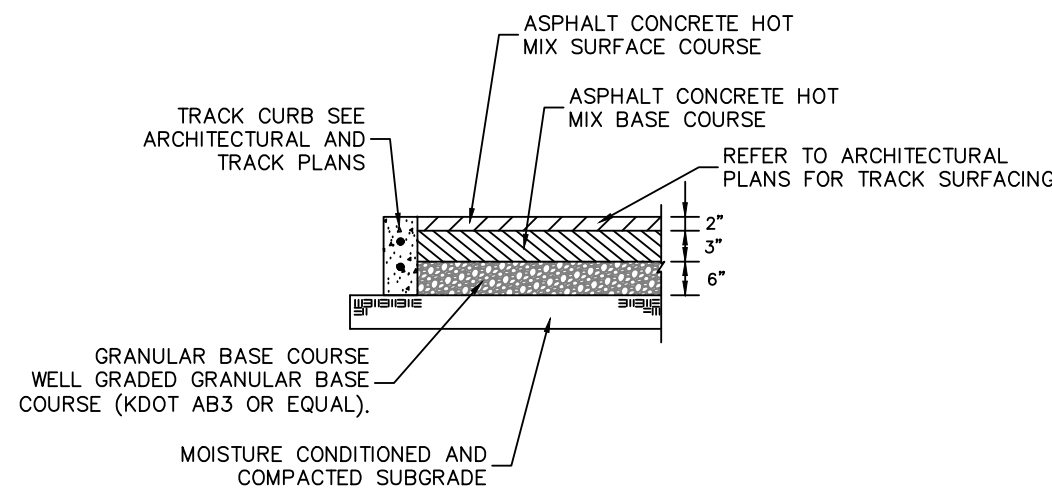
1. PORTLAND CEMENT CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS WITH 6% ENTRAINED AIR $\pm 2\%$ AND SHALL MEET OR EXCEED THE SPECIFICATIONS SET FORTH IN THE LATEST EDITION OF THE KANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION.



PERFORATED UNDERDRAIN SECTION 100

UNDERDRAIN SPECIFICATION

- AGGREGATE: NO. 57 AGGREGATE (ASTM D448) SHALL BE DOUBLE-WASHED TO REDUCE SUSPENDED SOLIDS AND POTENTIAL FOR CLOGGING. THE AGGREGATE SHALL BE PLACED AS SHOWN IN THE CONTRACT DRAWINGS.
- STORM DRAIN: PERFORATED HDPE PLASTIC PIPE UNDERDRAIN (AASHTO M252). INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321
- GEOTEXTILE FABRIC: (AASHTO M288). NON WOVEN

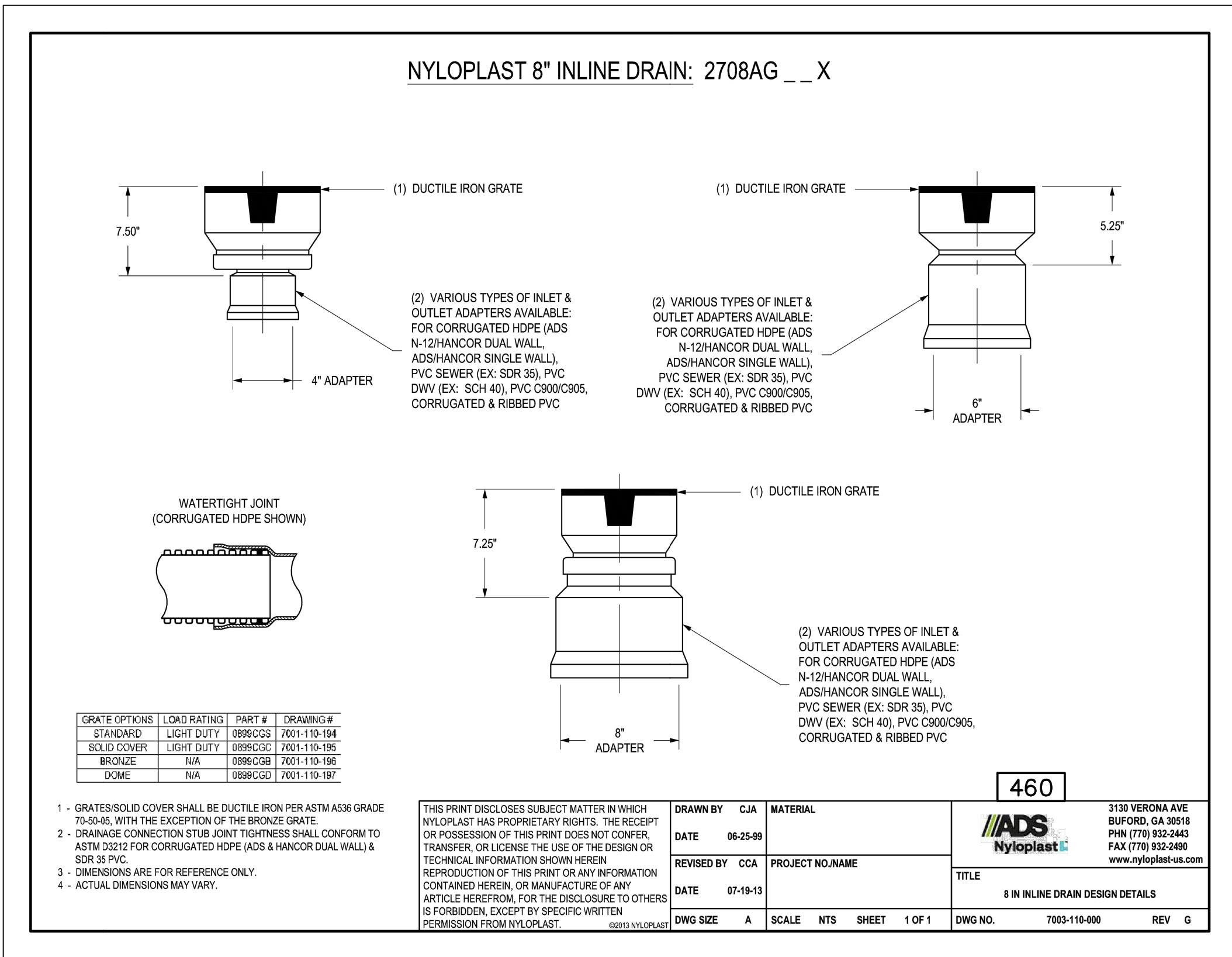


TRACK ASPHALT PAVEMENT 045

1. FLEXIBLE PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE KANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION.

ASPHALT SURFACE COURSE - TYPE BM-2, APWA TYPE 3, SURFACING COURSED SHALL BE VIRGIN MATERIALS

ASPHALT BASE COURSE - TYPE BM-2B, APWA TYPE 1

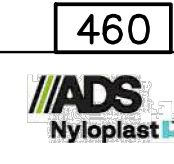


GRATE OPTIONS	LOAD RATINGS	PART #	DRAWINGS #
STANDARD	LIGHT DUTY	0896C28	7001-119-184
SOLID COVER	LIGHT DUTY	0896C25	7001-119-185
BRODGE	N/A	0896C28	7001-119-186
DOME	N/A	0896C22	7001-119-187

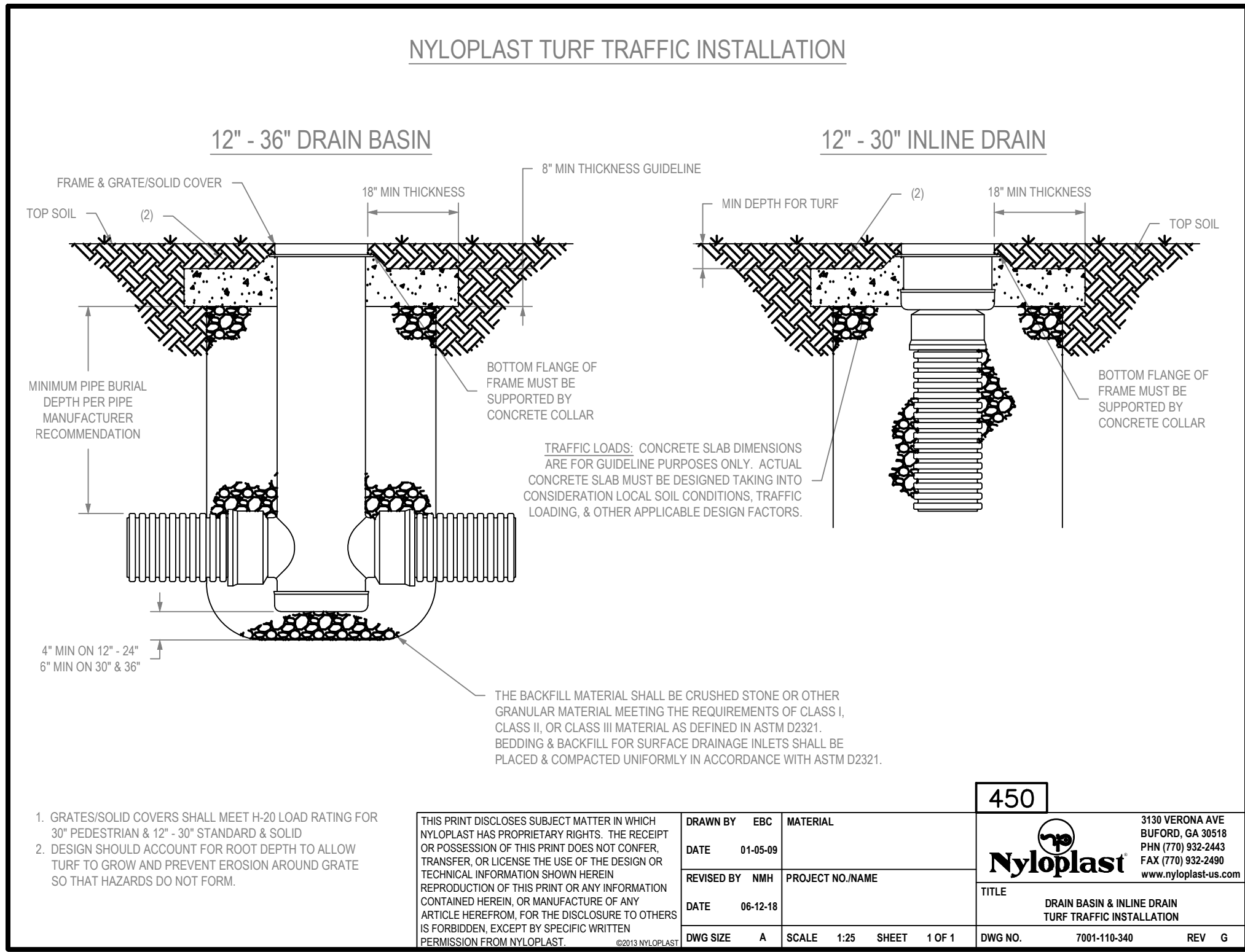
- GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-40-46, WITH THE EXCEPTION OF THE BRONZE GRATE.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC.
- DIMENSIONS ARE FOR REFERENCE ONLY.
- ACTUAL DIMENSIONS MAY VARY.

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DRAWN BY: CJA
DATE: 06-25-99
REVISD BY: CCA
DATE: 07-19-13
PROJECT NO./NAME: 7001-119-000
DWG NO.: 7001-119-000
SCALE: NTS
SHEET: 1 OF 1
REV: G



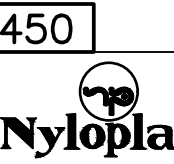
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BURLINGTON, GA 30518
PHN (770) 932-2403
FAX (770) 932-2400
www.nyloplast-usa.com



- GRATES/SOLID COVERS SHALL MEET H-20 LOAD RATING FOR 30' PEDESTRIAN & 12" - 30" STANDARD & SOLID
- DESIGN SHOULD ACCOUNT FOR ROOT DEPTH TO ALLOW TURF TO GROW AND PREVENT EROSION AROUND GRATE SO THAT HAZARDS DO NOT FORM.

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DRAWN BY: EBC
DATE: 01-05-09
REVISD BY: NMH
DATE: 06-12-18
PROJECT NO./NAME: 7001-119-340
DWG NO.: 7001-119-340
SCALE: 1:25
SHEET: 1 OF 1
REV: G



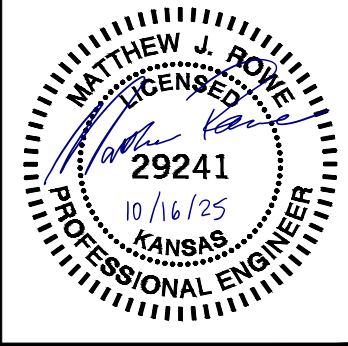
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506 SOUTH KANSAS AVENUE
CANTON, KANSAS 67428

CIVIL PLANS
DETAIL SHEET

PROJ. NO.	E25D4062
DESIGNER	MJR
CFN	4062TYP
SHEET	C-6
REV	0

REV	0	10/16/25	INITIAL ISSUE	DESCRIPTION
MJR	TDA	DSN	DWN	CHK



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KAW VALLEY ENGINEERING
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EXPIRES 12/31/26

UTILITY NOTES

COORDINATE WITH MEP AND CIVIL DRAWINGS FOR ADDITIONAL NOTES AND REQUIREMENTS.

1.

EXISTING FOOTBALL FIELD AREA INCLUDES EXISTING UNDERGROUND IRRIGATION SYSTEM. CONTRACTOR SHALL COORDINATE LOCATION OF HEADS, PIPING, VALVES, ETC. SYSTEM SHALL BE RETURNED TO WORKING ORDER AS SOON AS PRACTICAL TO ALLOW RE-SEEDING AND MAINTENANCE OF FIELD.

2.

EXISTING UTILITIES ON SITE ARE PRIVATE AND MAY NOT BE IDENTIFIED ON SURVEY DRAWINGS. CONTRACTOR SHALL USE CAUTION IN ALL EXCAVATIONS, AND HIRE LOCATE COMPANIES AS REQUIRED TO PERFORM SAFE EXCAVATIONS AND INTEGRATION OF NEW WORK.

DEMOLITION NOTES

GENERAL

1.

WHERE EXIST. BLDG. COMPONENTS ARE TO BE REMOVED; PATCH & REPAIR THE SURFACES TO MATCH EXIST. FINISH, UNLESS NEW FINISHES ARE CALLED FOR IN THE FINISH SCHEDULE.

2.

REMOVE EXIST. BLDG. AND SITE COMPONENTS AS INDICATED, IMPLIED OR AS REQUIRED SCHEMATICALLY SHOWN AS DASHED LINES. FIELD VERIFY ALL LOCATIONS.

3.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF CORE DRILLING, TRENCHING, AND OTHER EXCAVATIONS FOR NEW WORK AND BLDG AND SITE COMPONENTS.

4.

SHORING AND PROTECTION OF EXISTING STRUCTURES AND SITE COMPONENTS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

5.

NOTIFY ARCHITECT IMMEDIATELY IF ASBESTOS OR OTHER HAZARDOUS MATERIAL IS SUSPECTED ON SITE. DO NOT DISTURB UNLESS DIRECTED.

6.

IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE THE DEMOLITION BY DIFFERING TRADES.

7.

CONTRACTOR COORDINATE SCHEDULE & LOCATION OF ANY OR ALL EXISTING UTILITIES, FIXTURES, DEVICES, ETC. PRIOR TO DEMOLITION, RELOCATE OR ABANDON ACCORDINGLY.

8.

COORDINATE & REFERENCE CIVIL MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION ITEMS AND DETAILS

SPECIFIC

1

REMOVE EXISTING CHAINLINK FENCE AND MOW STRIP. SALVAGE COMPONENTS WHERE INDICATED TO BE REINSTALLED.

2

REMOVE EXISTING SOFTBALL FIELD INCLUDING DUGOUTS, LIGHTING, BASES, SCORE BOARD, ETC. TERMINATE POWER AT SOURCE/PANEL.

3

REMOVE EXISTING GRAVEL/CONCRETE SIDEWALK/DRIVE.

4

REMOVE EXISTING SCOREBOARD. SALVAGE FOR REINSTALL BY CONTRACTOR. REFERENCE STRUCTURAL DRAWINGS FOR DETAILS.

5

REMOVE EXISTING LONG JUMP TRACK & PIT. FILL, REINFORCE, AND COMPACT ALL AREAS AND PREP WITH TOPSOIL FOR NEW SEEDING.

6

REMOVE & SALVAGE EXISTING BLEACHERS. REINSTALL PER PROPOSED DRAWINGS.

7

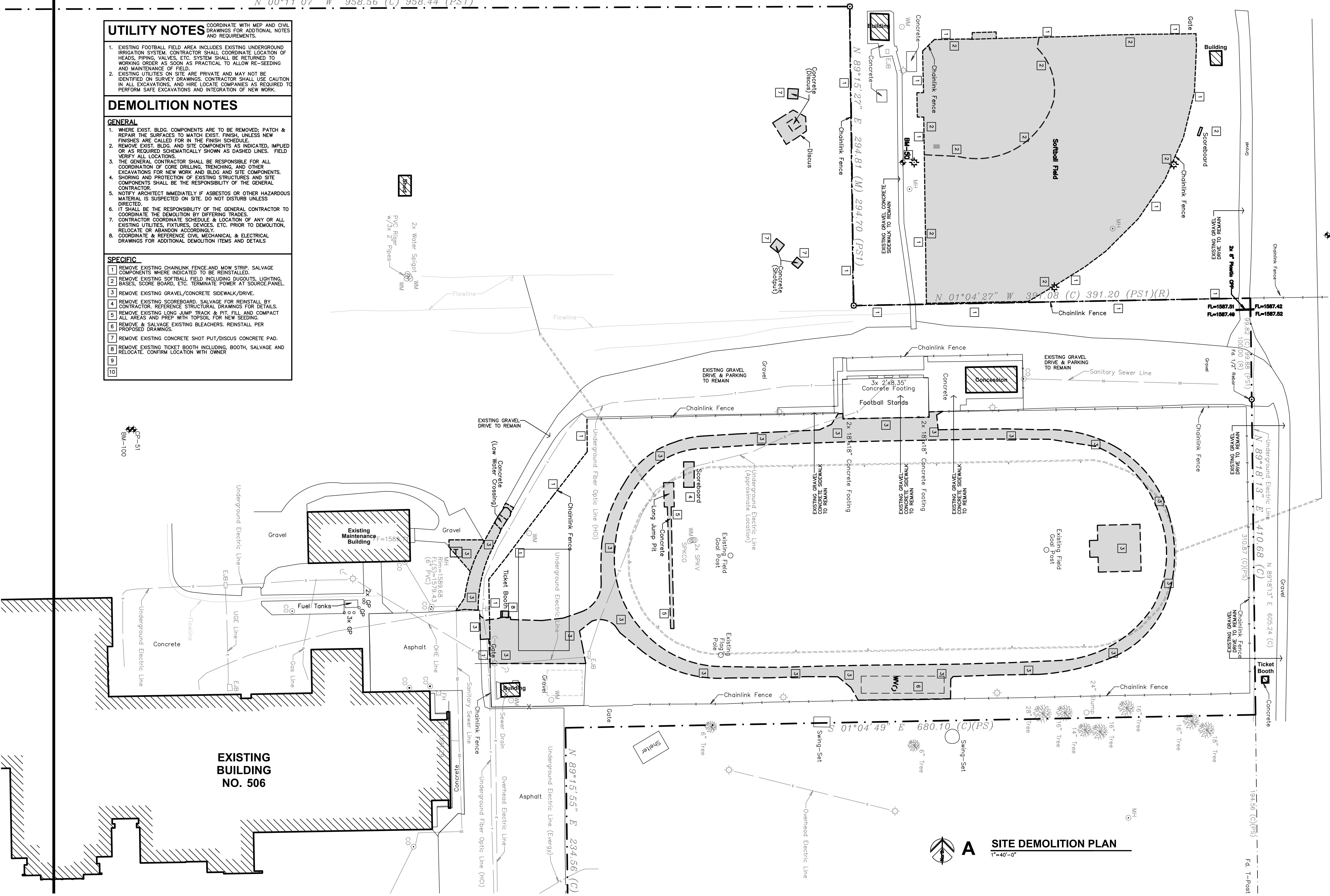
REMOVE EXISTING CONCRETE SHOT PUT/DISCUS CONCRETE PAD.

8

REMOVE EXISTING TICKET BOOTH INCLUDING, BOOTH, SALVAGE AND RELOCATE. CONFIRM LOCATION WITH OWNER

9

10



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USD 419 CANTON - GALVA SCHOOLS

TRACK RENOVATION & VO/AG BUILDING

CANTON, KANSAS

CHARLES A. RENZ

5502

10-17-2025

KANSAS

PROFESSIONAL ARCHITECT

REVISION:

DATE:

10-17-2025

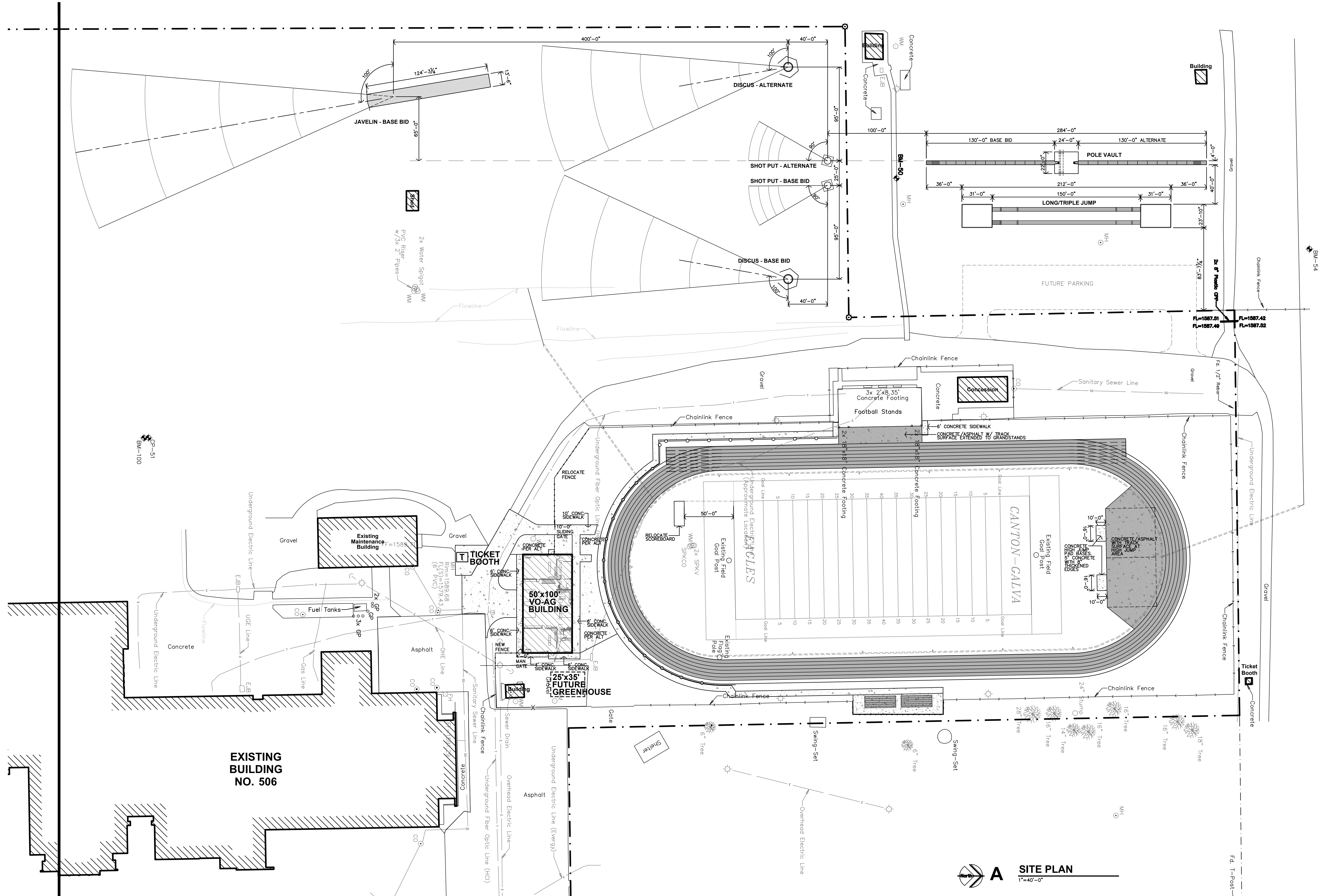
JOB:

24-3521

SHEET NO.:

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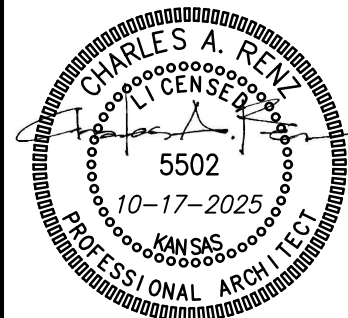


A SITE PLAN
1"=40'-0"

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jgr@jgarchitects.com



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TRACK RENOVATION & VO/AG BUILDING
CANTON, KANSAS

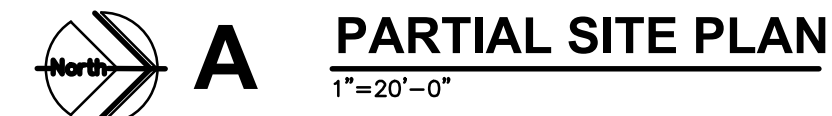


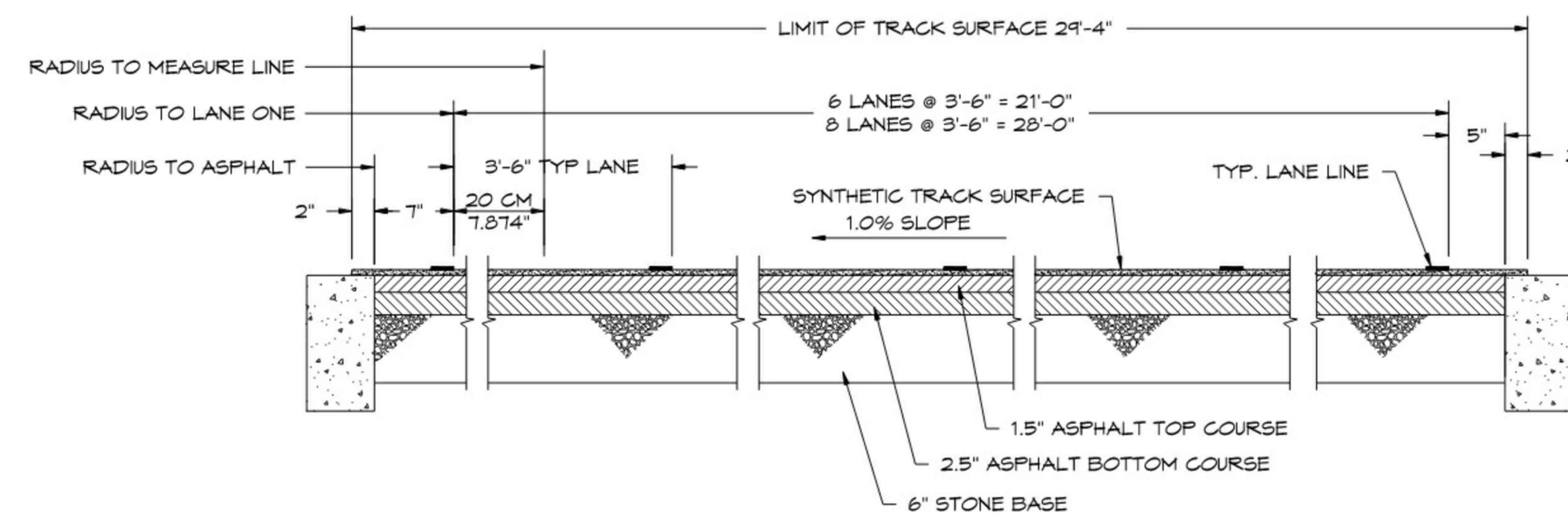
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DATE:	10-17-2025
JOB:	24-3521
SHEET NO.:	

A1.1

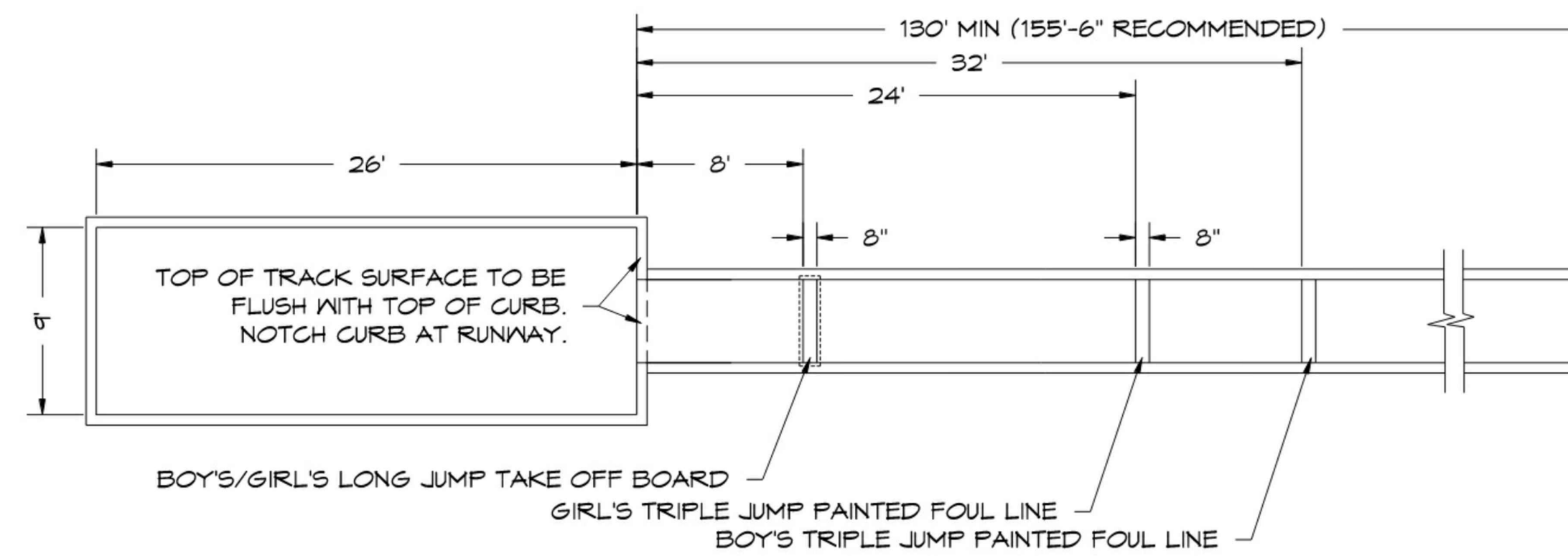
LAYOUT	1. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF TRACK TO ENSURE ACCURATE LOCATION AND LENGTH AS REQUIRED BY KHS&A. NOTED: ALL REGULATION AGENCIES SHALL BE NOTIFIED. 2. CONTRACTOR SHALL SUBMIT DRAWING IDENTIFYING FINAL PROPOSED LAYOUT AND SITE COORDINATION ITEMS FOR REVIEW BY OWNER AND ARCHITECT. 3. TRACK CONTRACTOR SHALL SUBMIT A FINAL LAYOUT OF ALL TRACK AND RUNWAY MARKINGS INCLUDING BUT NOT LIMITED TO LANES, EXCHANGE ZONES, ARROWS, NUMBERS, JUMP LINES, ETC. FOR OWNER REVIEW. PRIOR TO TRACK INSTALLATION.
---------------	---

1. NEW 6 LANE TRACK (BASE BID) WITH 7 LAND STRAIGHT-AWAY AT WEST SIDE.
2. ALTERNATE FOR 7TH RUNNING LANE AT THE TRACK SHALL BE PER ALTERNATE #4.
3. AREA BETWEEN TRACK AND WEST GRANDSTANDS SHALL INCLUDE SURFACING SYSTEM OVER BASE EQUIVALENT TO TRACK CONSTRUCTION.
4. IMPERMEABLE RUBBER TRACK SURFACE TO BE INSTALLED AT ALL TRACK AREAS, INCLUDING HIGH-JUMP AREA, ALONG WITH ALL JUMP AND FIELD EVENT RUNWAYS.
5. TRACK INSTALLATION TO INCLUDE CONCRETE CURBS, ASPHALT TRACK AREAS W/ 4" ASPHALT OVER GRANULAR BASE PER SPECIFICATIONS. JUMP EVENT RUNWAYS SHALL BE CONCRETE WITH RUBBER TRACK SURFACE.
6. PRIMARY TRACK SURFACE COLOR TO BE "RED CLAY" COLOR, TO BE SELECTED FROM TRACK COMPANY RANGE OF COLORS.
7. ALL TRACK MARKINGS SHALL BE PAINTED INCLUDING JUMP LINES.
8. ALL EXCHANGE AREAS SHALL BE 10' WIDE/MEDIUM GRAY COLOR, TO BE SELECTED FROM THE MANUFACTURER'S RANGE OF COLOR, WHERE FENCING IS LOCATED ADJACENT TO FENCE. TRACK SURFACE SHALL EXTEND 4' BEYOND OUTSIDE LANE.
9. CONSTRUCTION SHALL INCLUDE CURBS, TIE-DOWNS, CURBS, ETC AS REQUIRED FOR COMPLETE INSTALLATION AND ACCOMMODATION OF EVENTS AS REQUIRED BY KSHSAA, NFHS, AND OTHER REGULATORY AGENCIES.
10. REFER TO SPECIFICATIONS FOR ALTERNATES 5a THRU 5d IDENTIFYING FIELD EVENT ALTERNATES.

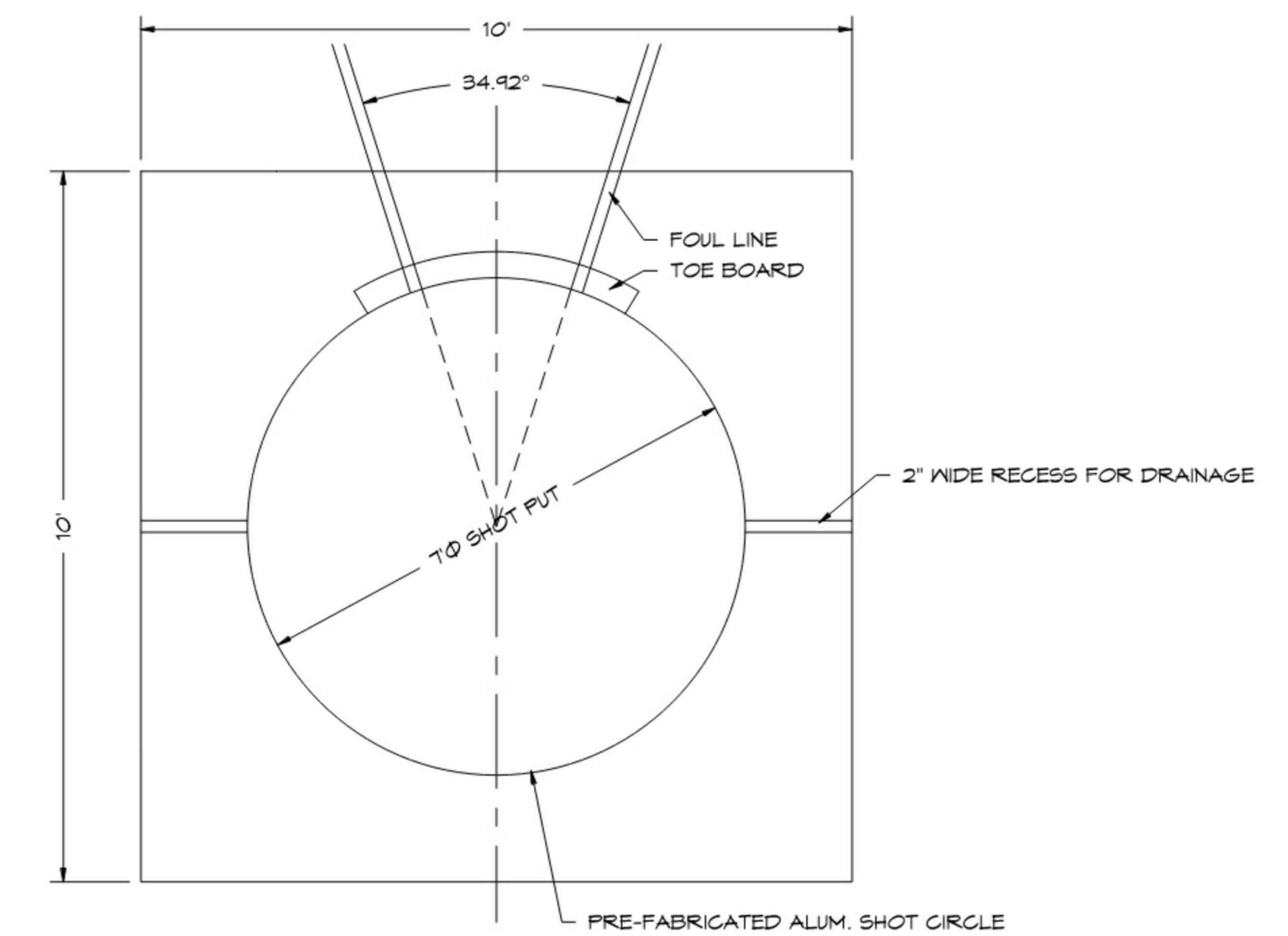




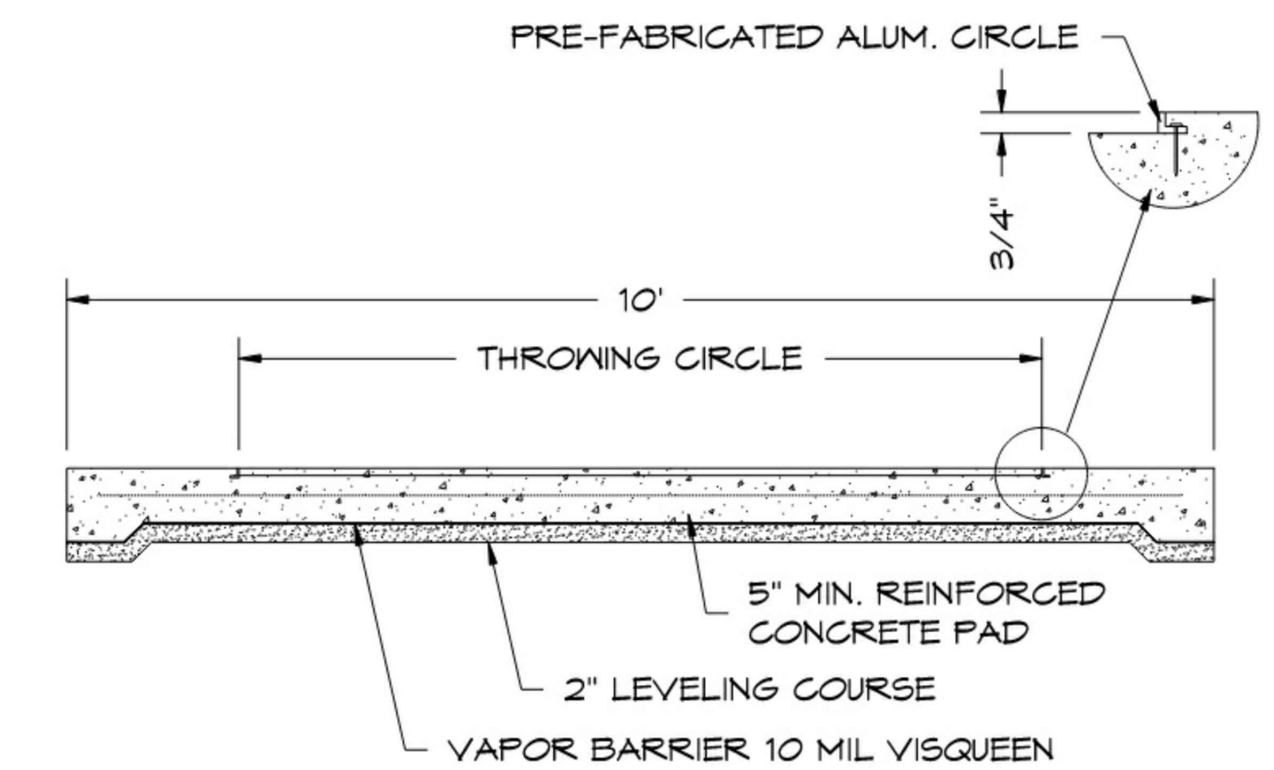
L **TRACK SECTION**
NOT TO SCALE



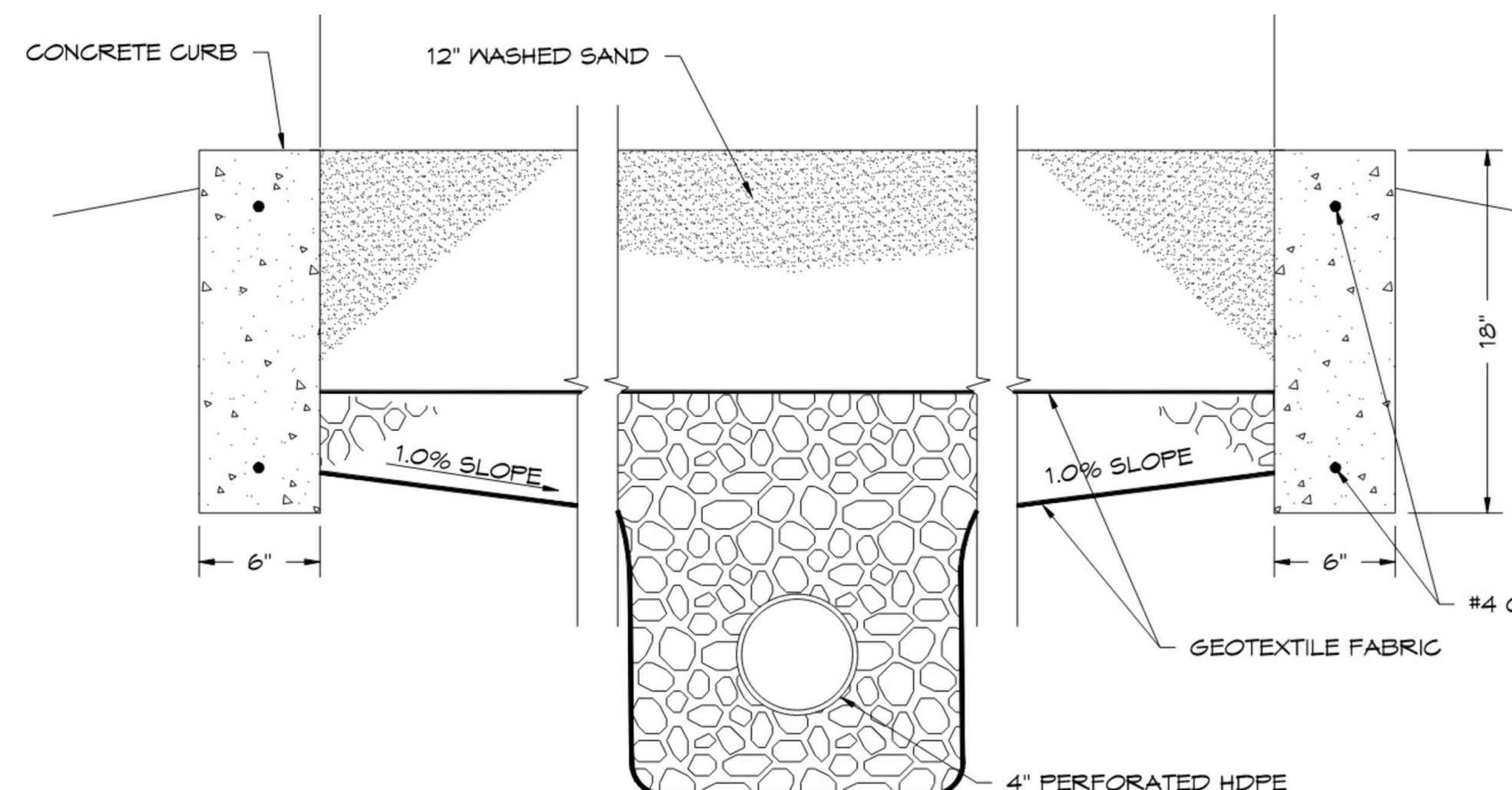
H RUNWAY PLAN LONG/TRIPLE JUMP



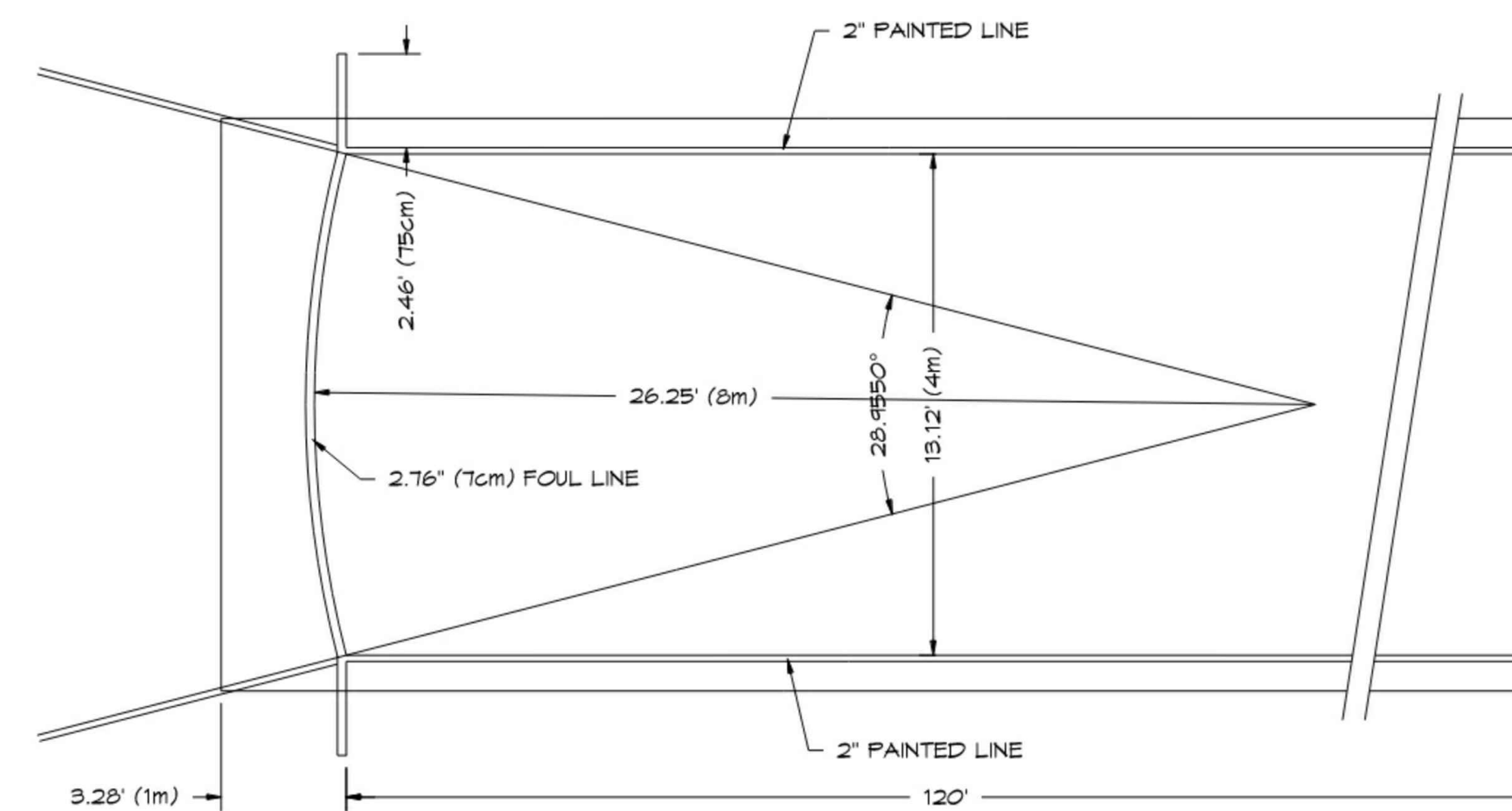
D SHOT PAD PLAN



C **DISCUS/SHOT PAD SECTION**
NOT TO SCALE

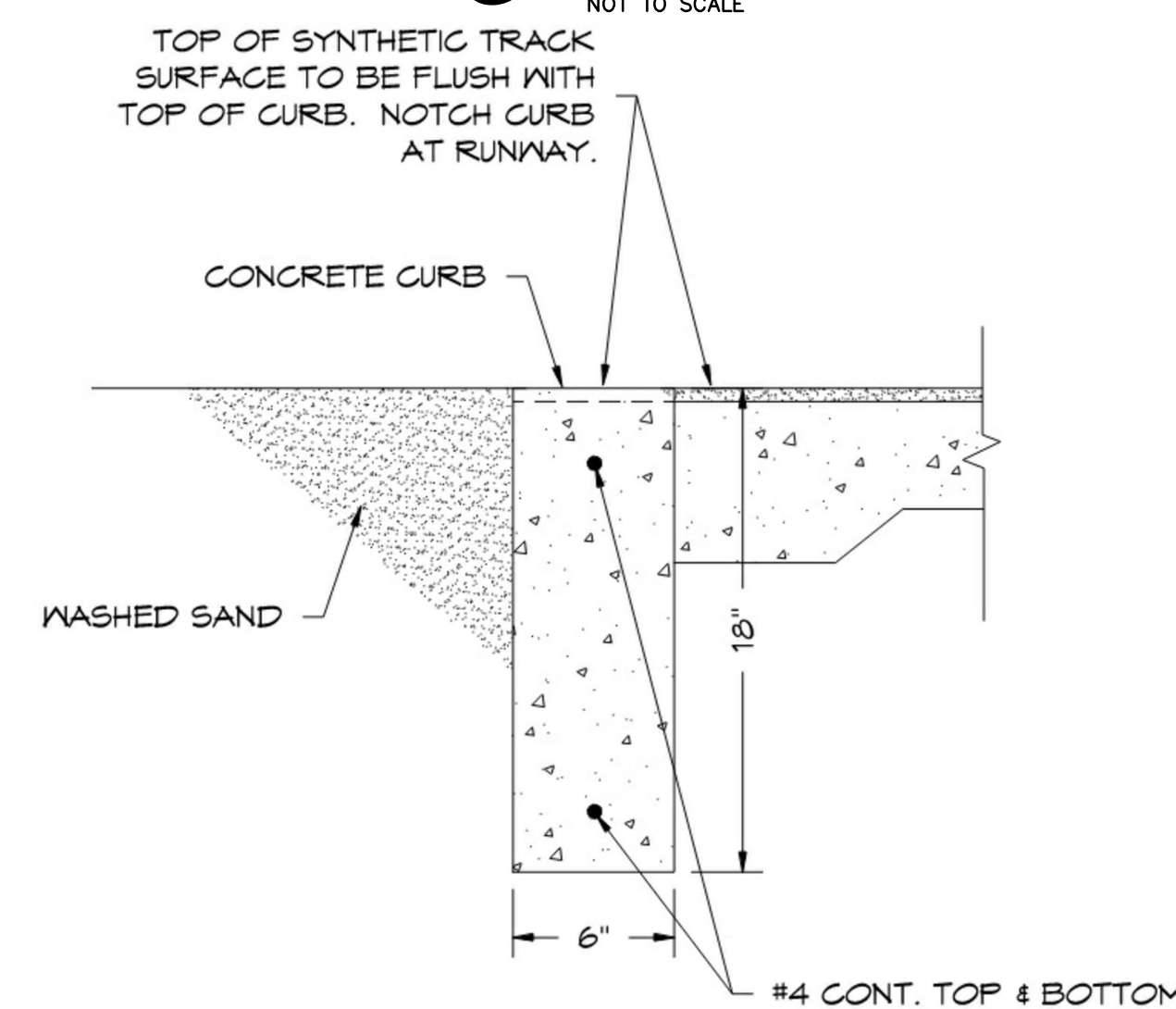


K **JUMP PIT SECTION**
NOT TO SCALE

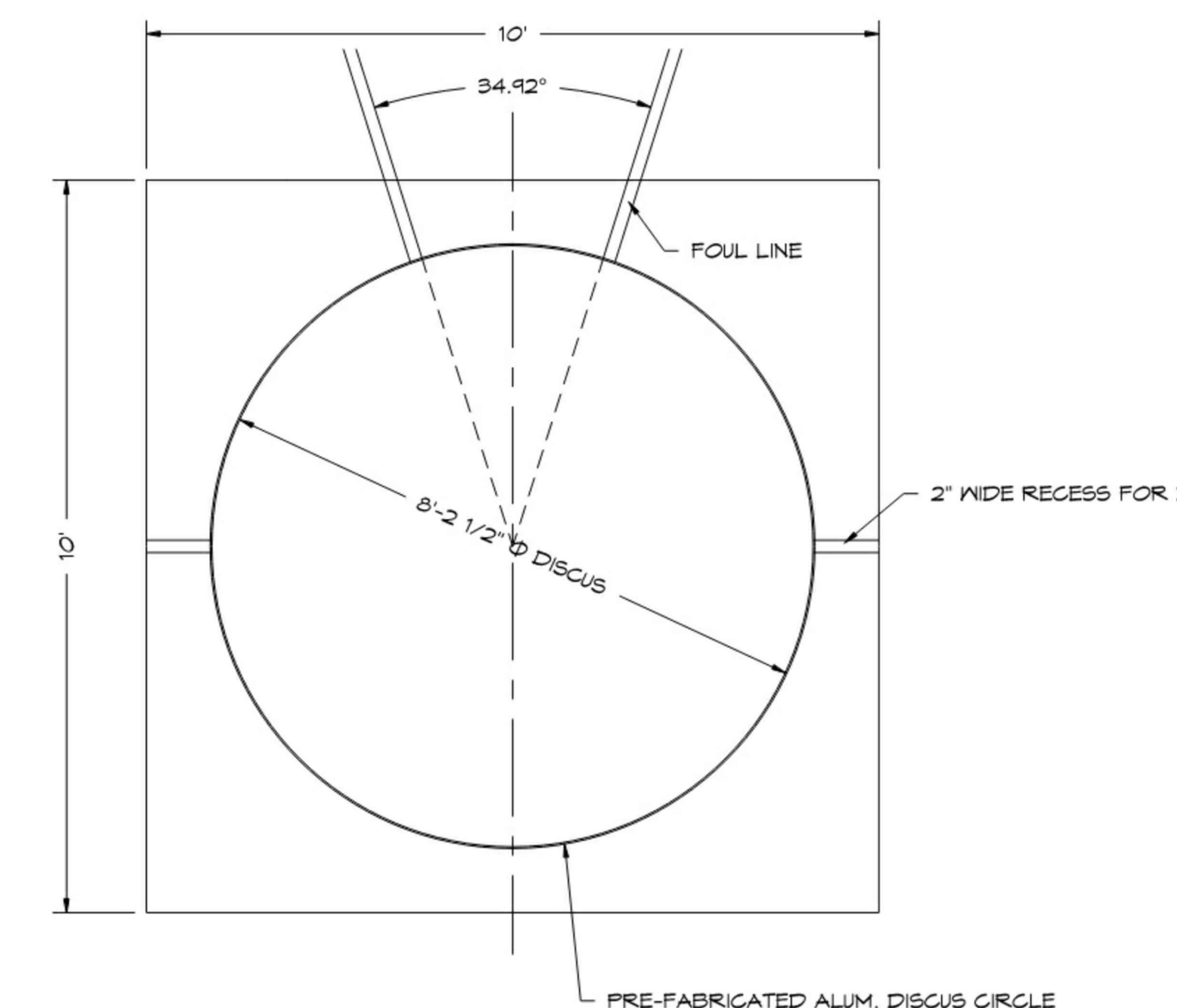


G JAVELIN MARKING PLAN

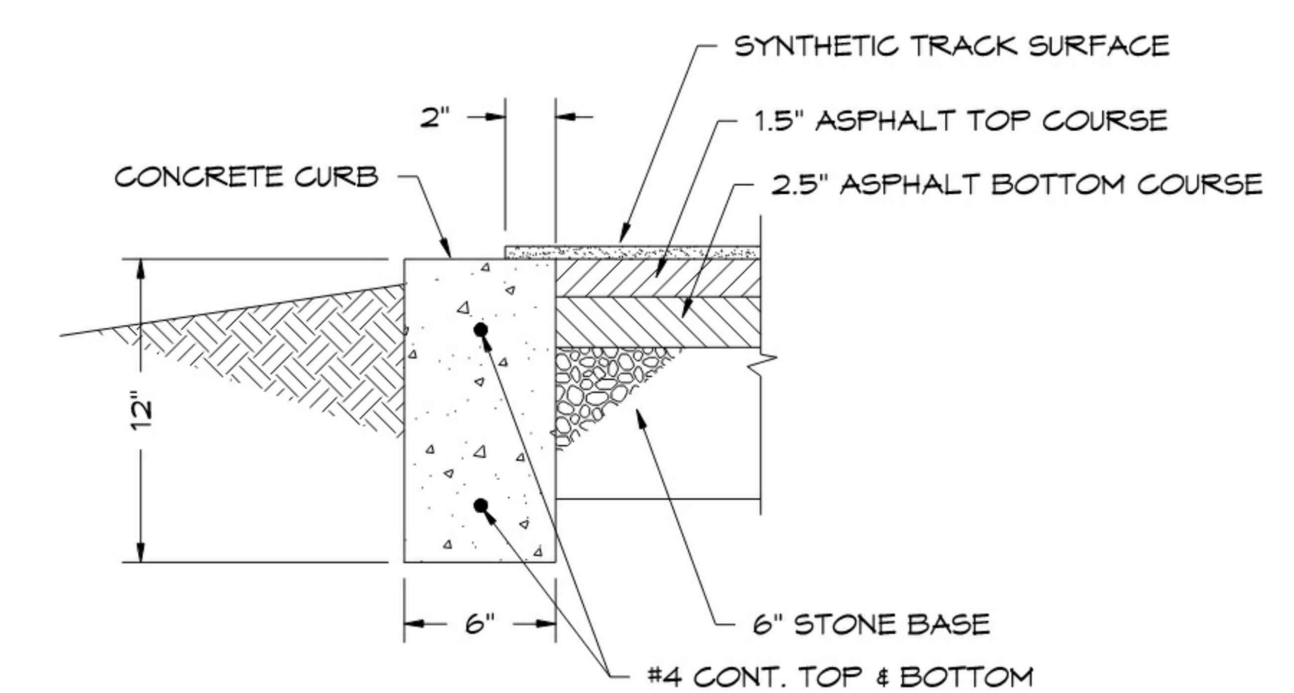
NOT TO SCALE



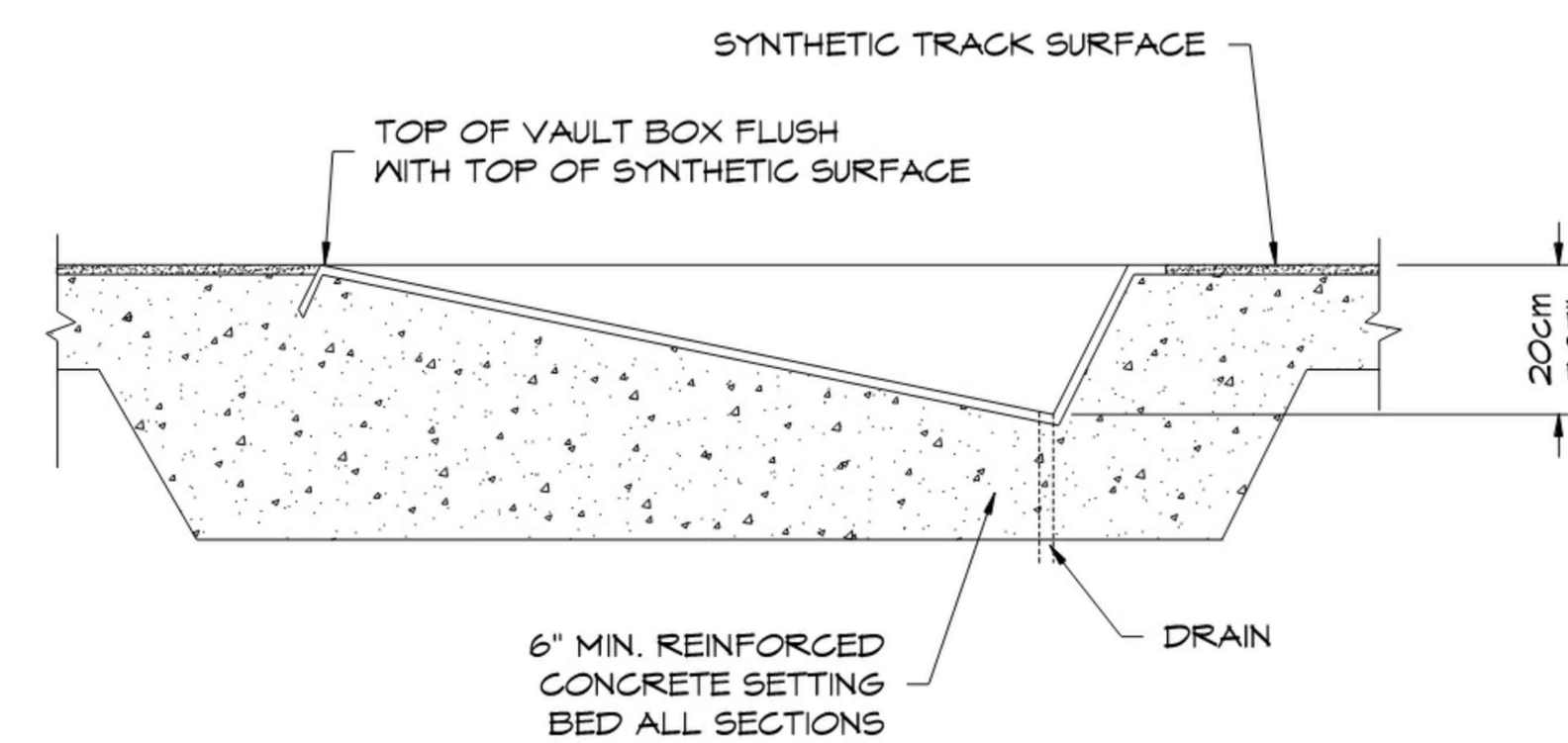
F **PIT CURB SECTION**
LONG/TRIPLE JUMP
NOT TO SCALE



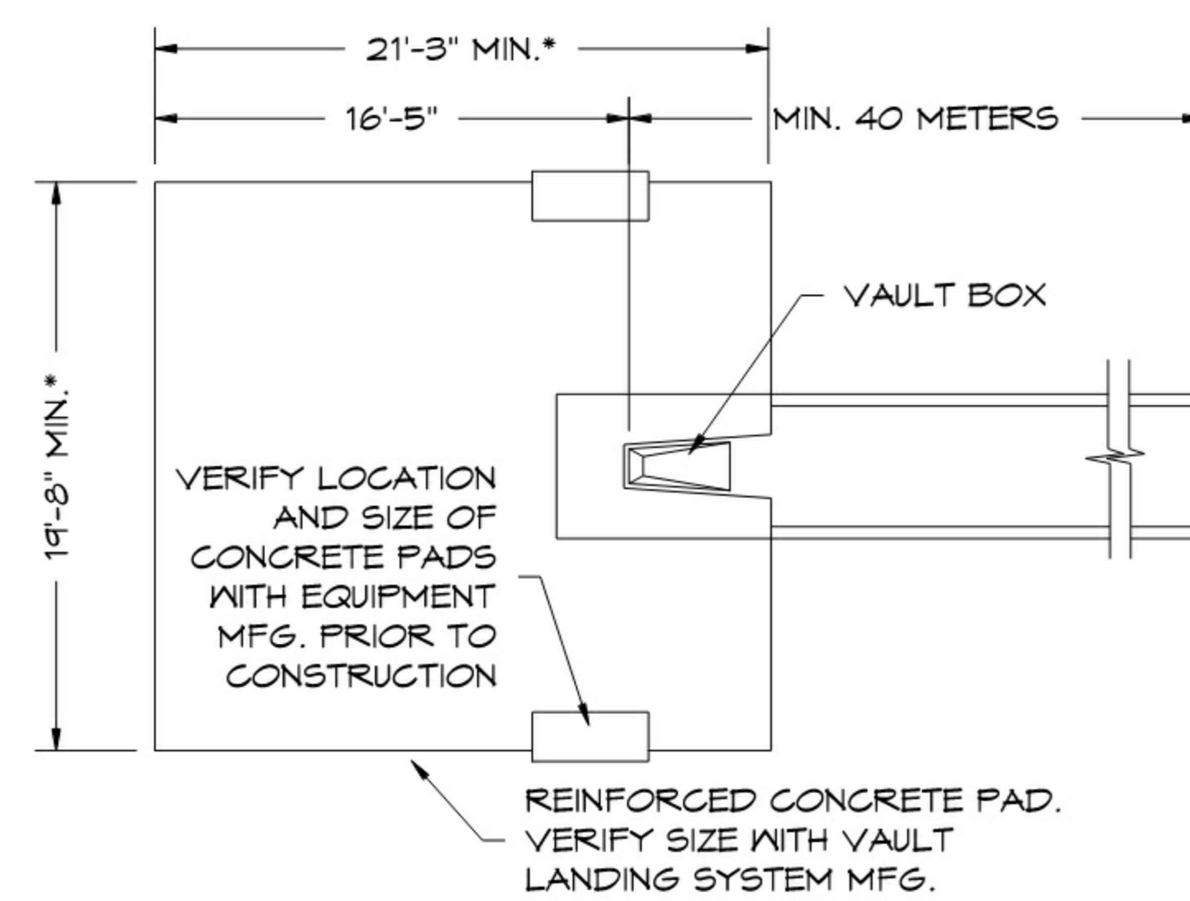
B DISCUS PAD PLAN



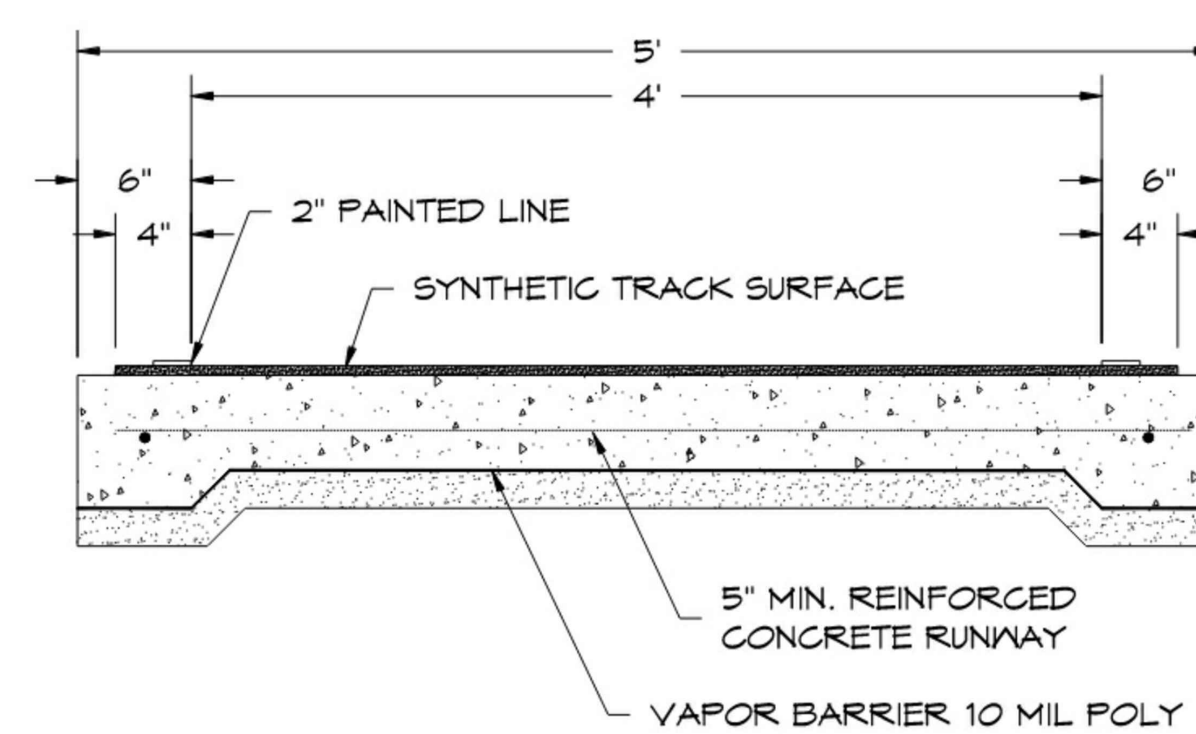
▲ TRACK CURRB DETAIL



J **POLE VAULT BOX SECTION**
NOT TO SCALE



POLE VAULT PAD PLAN



RUNWAY SECTION
LONG/TRIP FLIMP

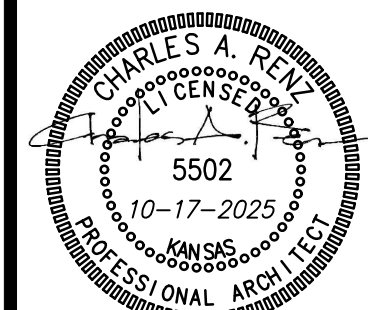
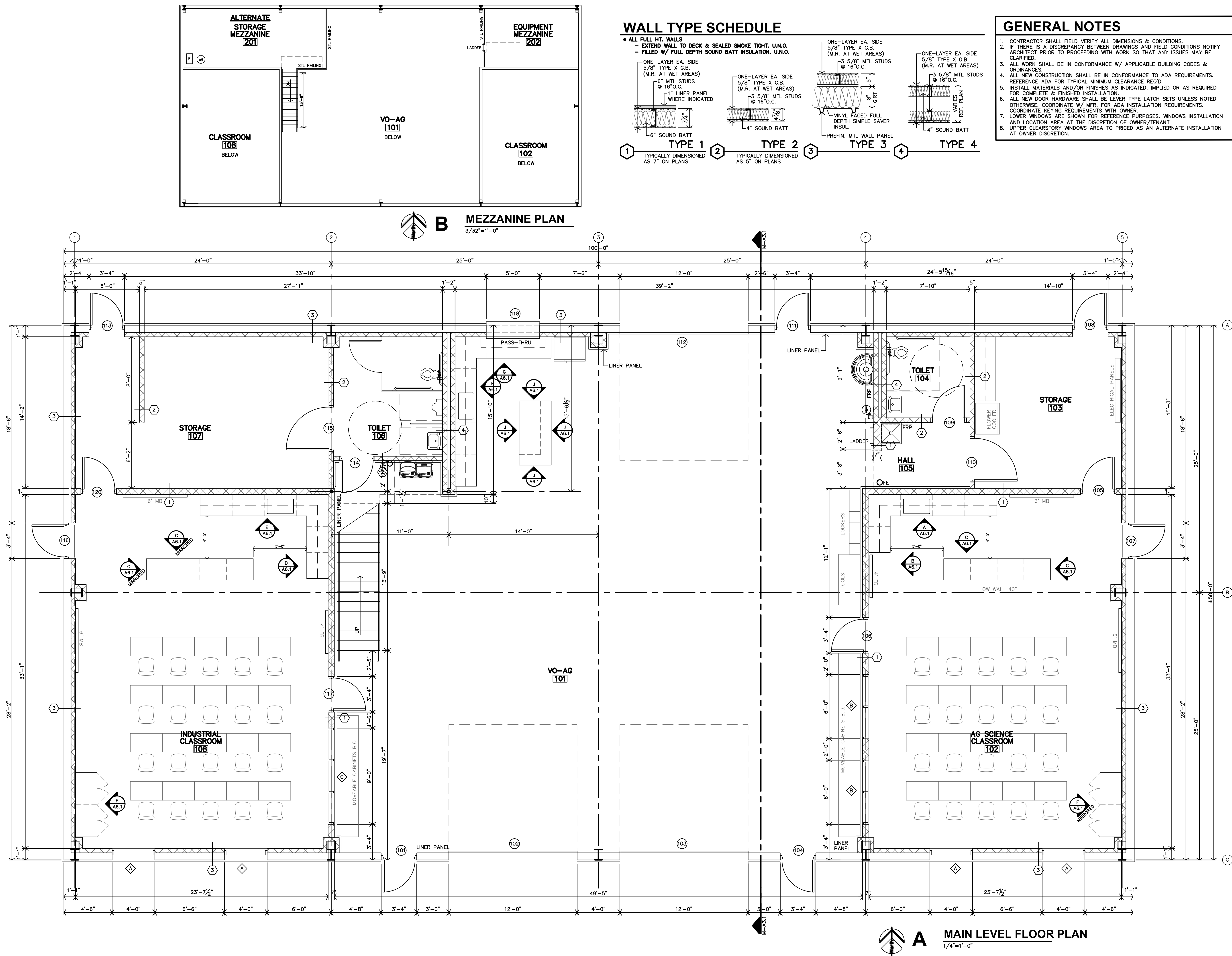
TRACK AND FIELD SYSTEM DETAILS

GENERAL NOTES:

- SYMBOLS AND NOTATION:**
1. DETAILS SHOWN ON THIS SHEET ARE MANUFACTURERS LAYOUT DETAILS PER THE BASIS OF SPECIFICATION TRACK SURFACING SYSTEMS.
 2. THESE DETAILS ARE FOR REFERENCE ONLY CONTRACTOR SHALL SUBMIT LAYOUT DRAWINGS AND DETAILS PRIOR TO CONSTRUCTION, IN COORDINATION WITH THE TRACK SURFACING CONTRACTOR.
 3. LONG/SHORT JUMP PIT IS TO BE CUSTOM SIZE TO ACCOMMODATE TWO WAY JUMPING. REFERENCE SITE PLAN FOR PIT DIMENSIONS.
 4. LONG/TRIPLE JUMP PIT IS TO BE CUSTOM SIZE TO ACCOMMODATE TWO WAY JUMPING. REFERENCE SITE PLAN FOR PIT DIMENSIONS.
 5. REFERENCE ALTERNATES FOR THE SPECIFICATIONS.
 6. PER POLYURETHANE SCAN BEAM REFLECTIONS SHALL BE ACCOMMODATED WITH A SECOND WALY BOX, COVER, AND CROSS BAR BASE TO ALLOW JUMPING FROM EITHER THE NORTH OR SOUTH DIRECTION.

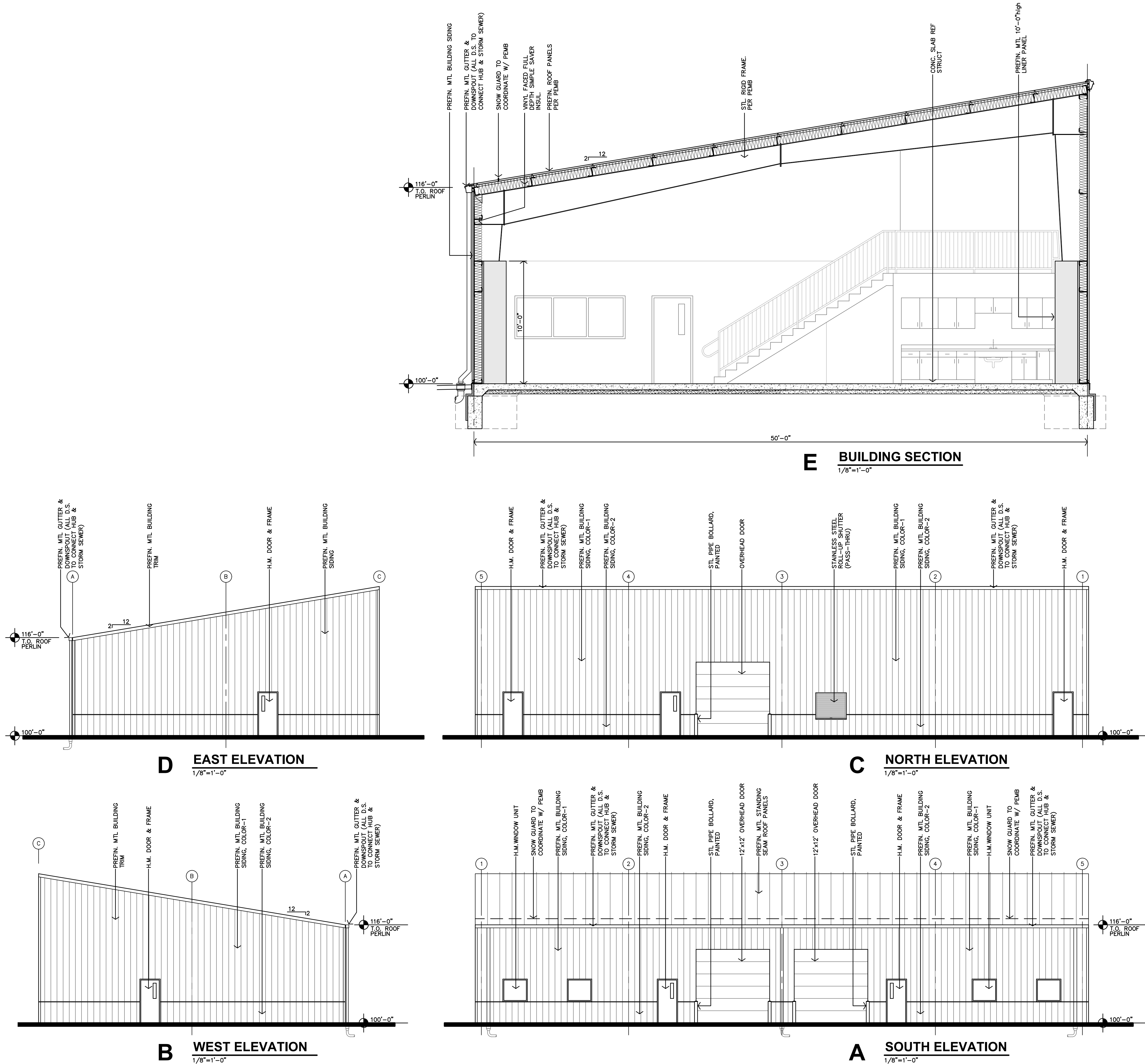
IN-GROUND EQUIPMENT TO BE INSTALLED BY CONTRACTOR:

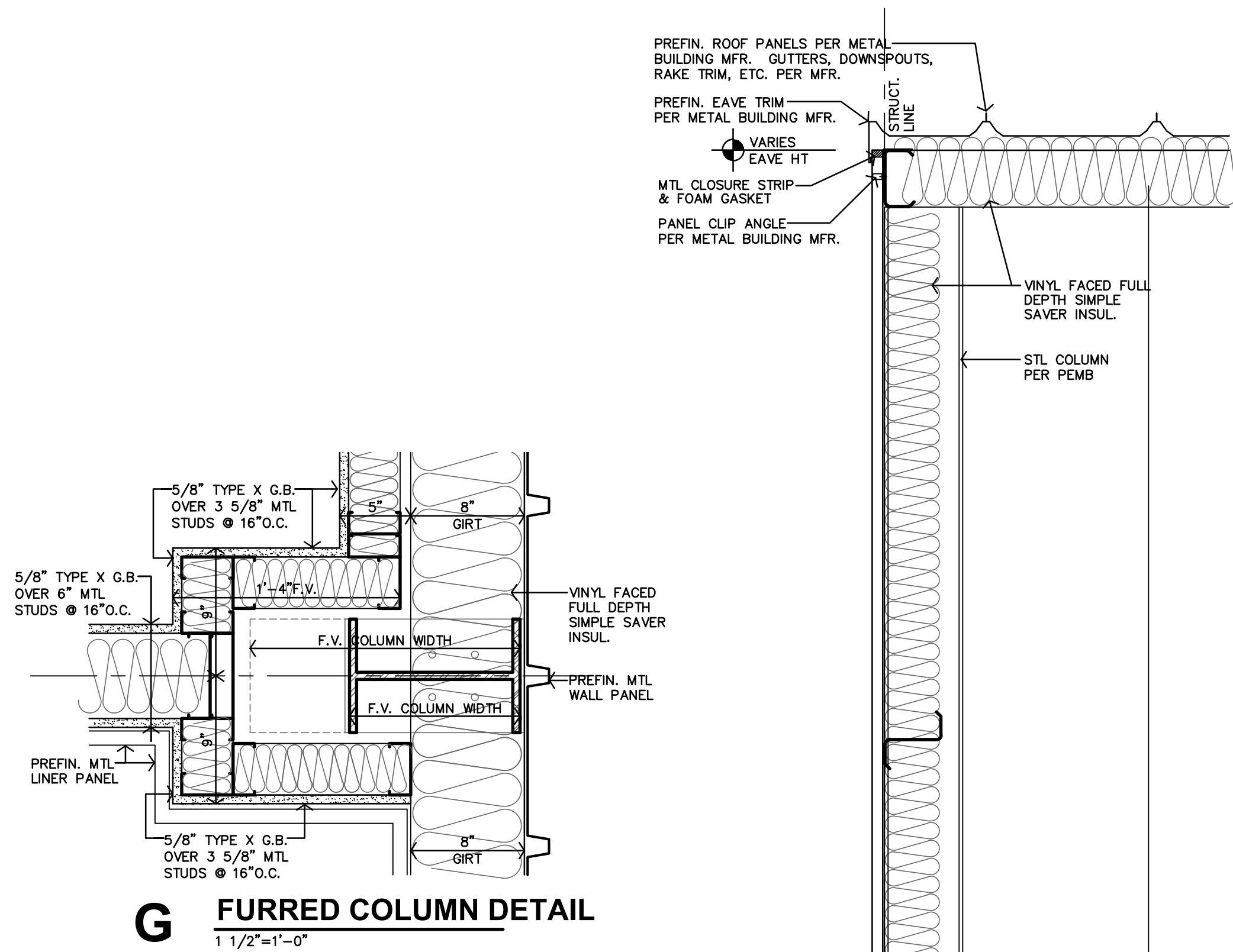
- | | |
|---|--|
| 1 | ALUMINUM OR STAINLESS STEEL VAULT BOX, INCLUDE ALL MOUNTING HARDWARE, HANGERS AND BRACKETS TO PREVENT CRACKING DURING PLACEMENT OF CONCRETE. BOX SHALL HAVE HOLE TO ALLOW DRAINING THROUGH TO AGGREGATE BASE BELOW. PROVIDE COVER. |
| 2 | SHOT PUT TIE BOARD, CAST ALUMINUM CONSTRUCTION WITH WHITE POWDERCOAT FINISH. FABRICATE FOR FLUSH INSTALLATION. |
| 3 | BRACKET MOUNTING HARDWARE FOR POLE VAULT AND HIGH JUMP PADS SHALL BE COORDINATED WITH VENDOR REQUIREMENTS PRIOR TO PLACEMENT OF CONCRETE. |



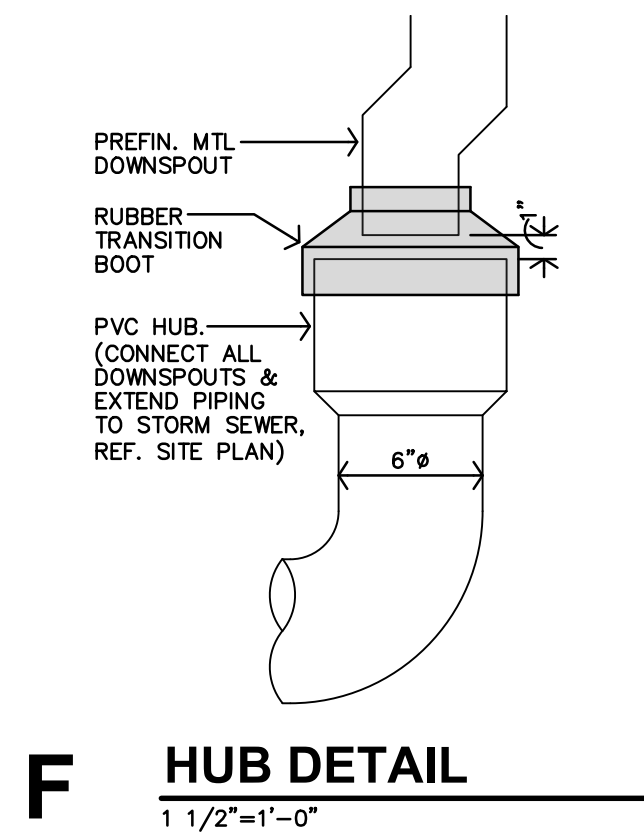
REVISION:

DATE: 10-17-2025
JOB: 24-3521
SHEET NO.:

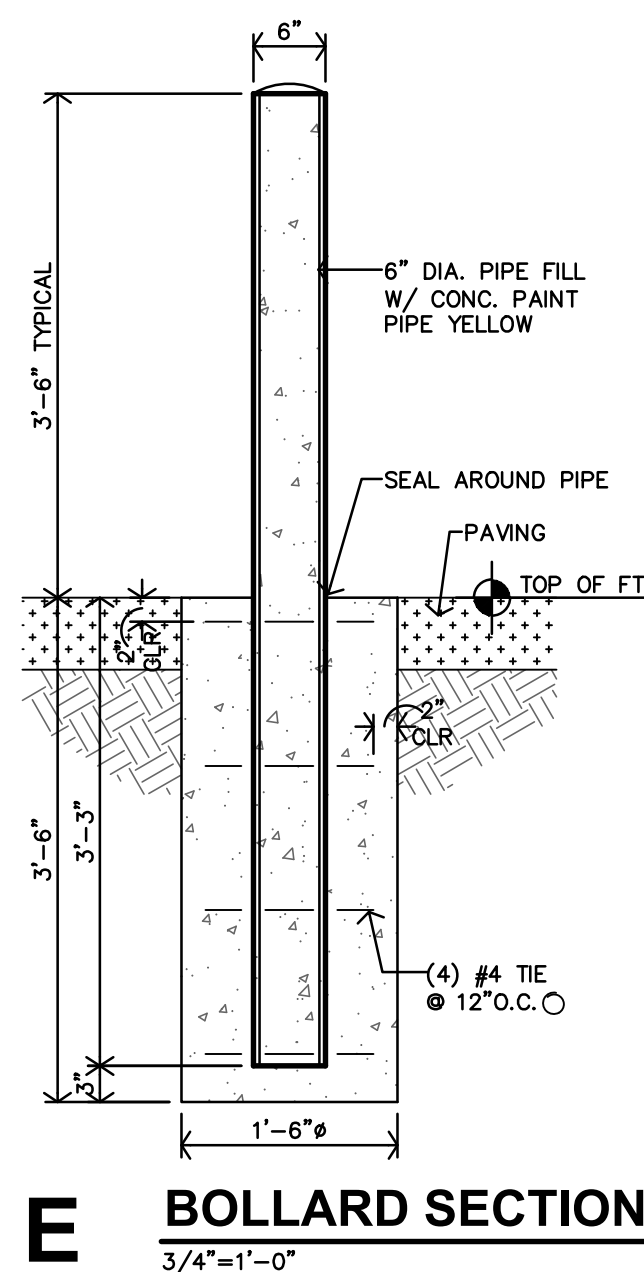




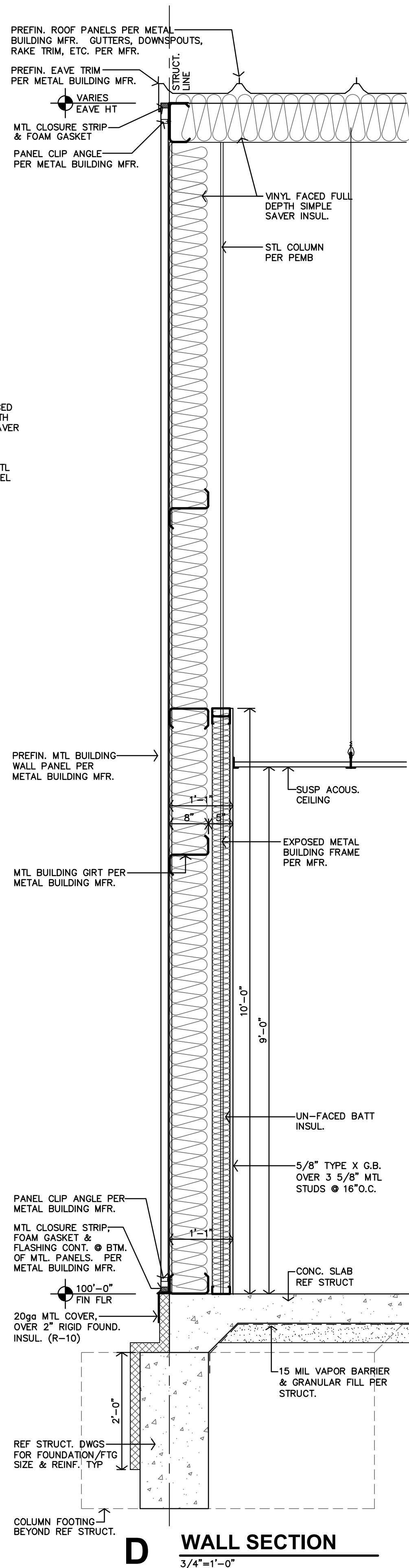
G FURRED COLUMN DETAIL
1 1/2"=1'-0"



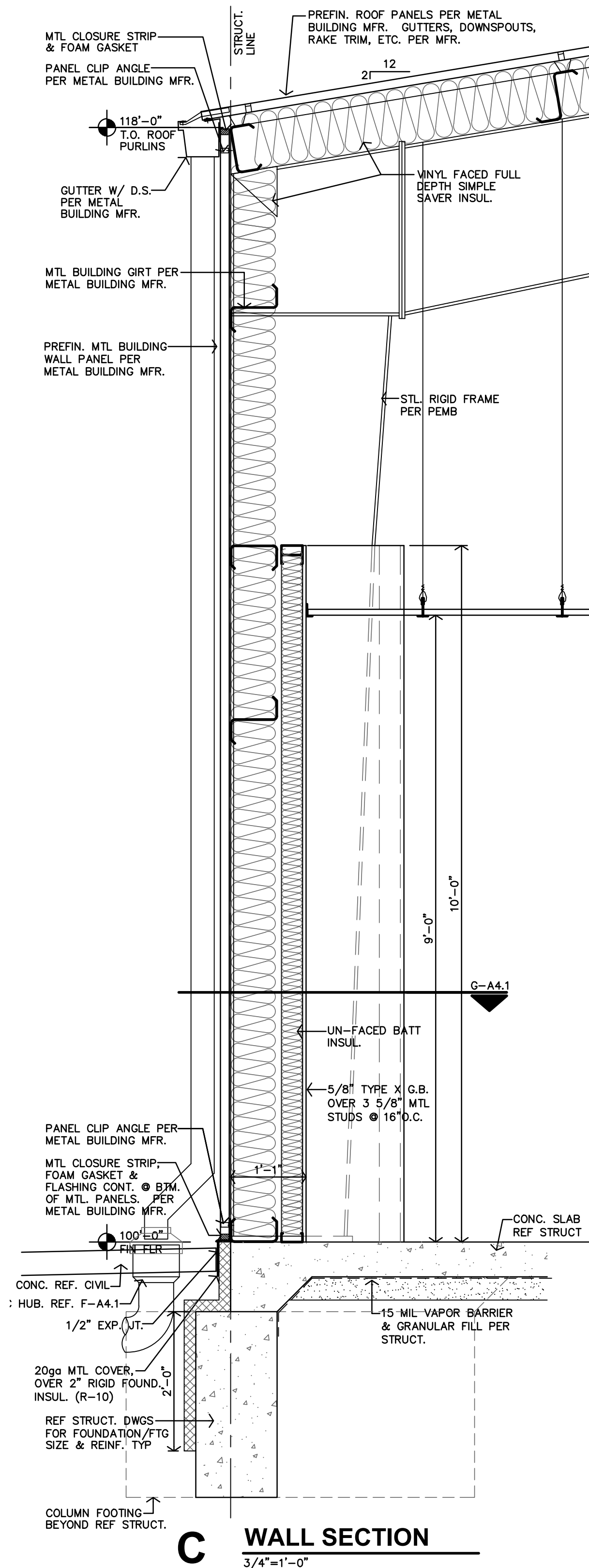
F HUB DETAIL
1 1/2"=1'-0"



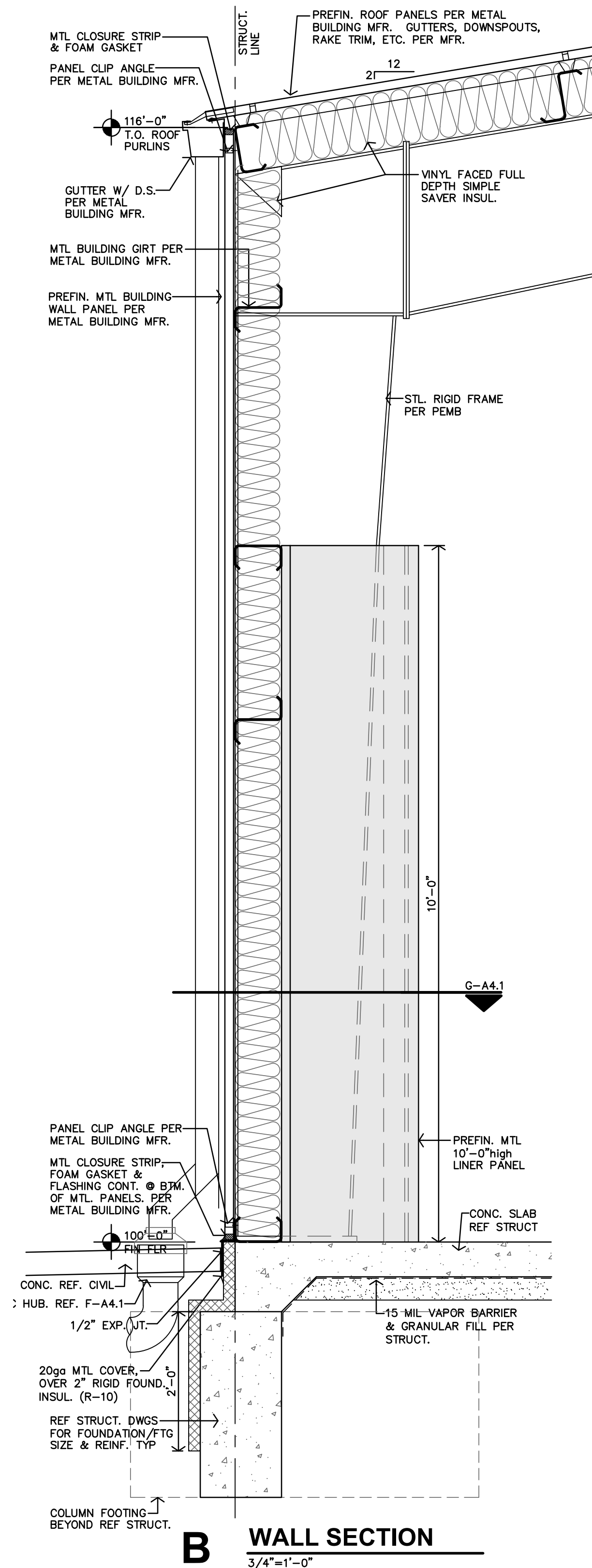
E BOLLARD SECTION
3/4"=1'-0"



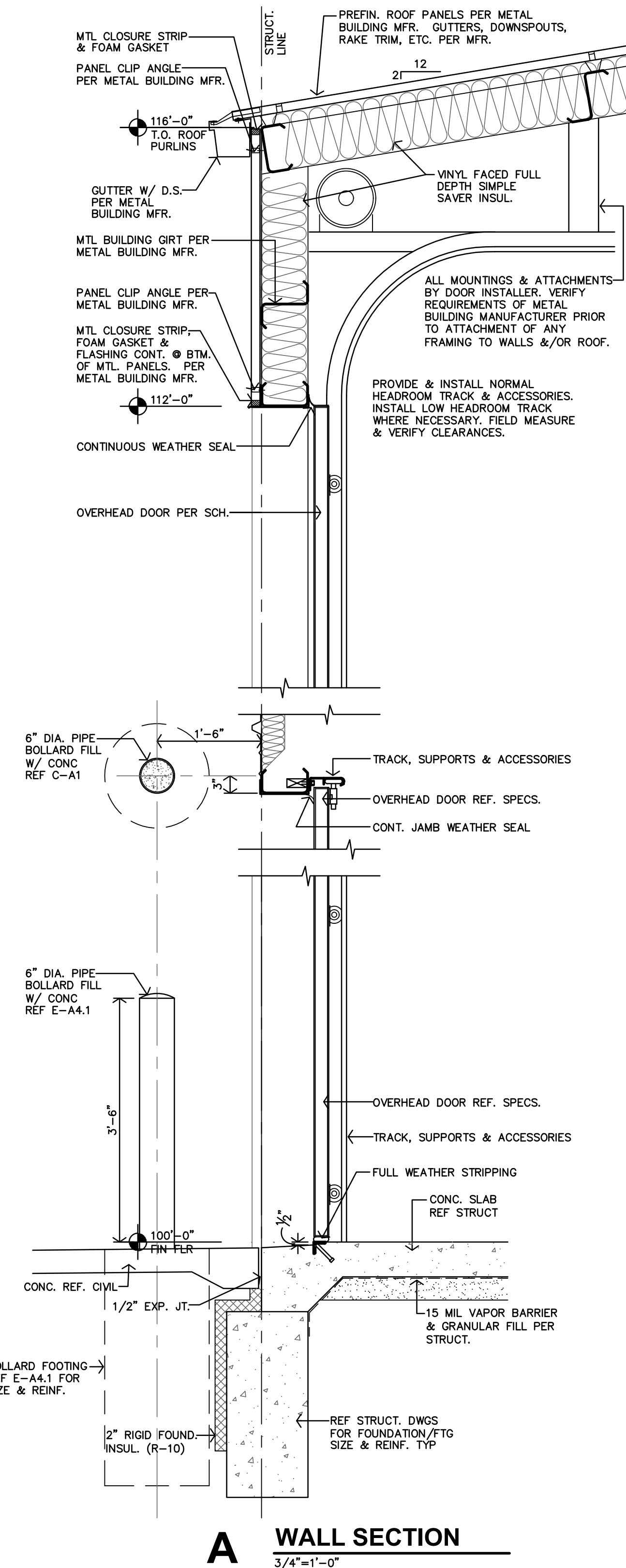
D WALL SECTION
3/4"=1'-0"



C WALL SECTION
3/4"=1'-0"

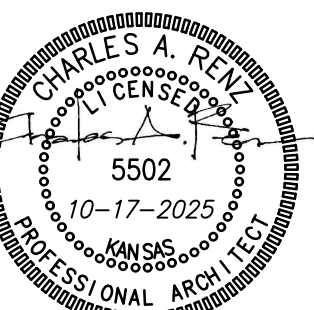


B WALL SECTION
3/4"=1'-0"



A WALL SECTION
3/4"=1'-0"

USD 419 CANTON - GALVA SCHOOLS
TRACK RENOVATION & VO/AG BUILDING
CANTON, KANSAS

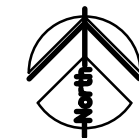


REVISION:	
DATE:	10-17-2025
JOB:	24-3521
SHEET NO.:	

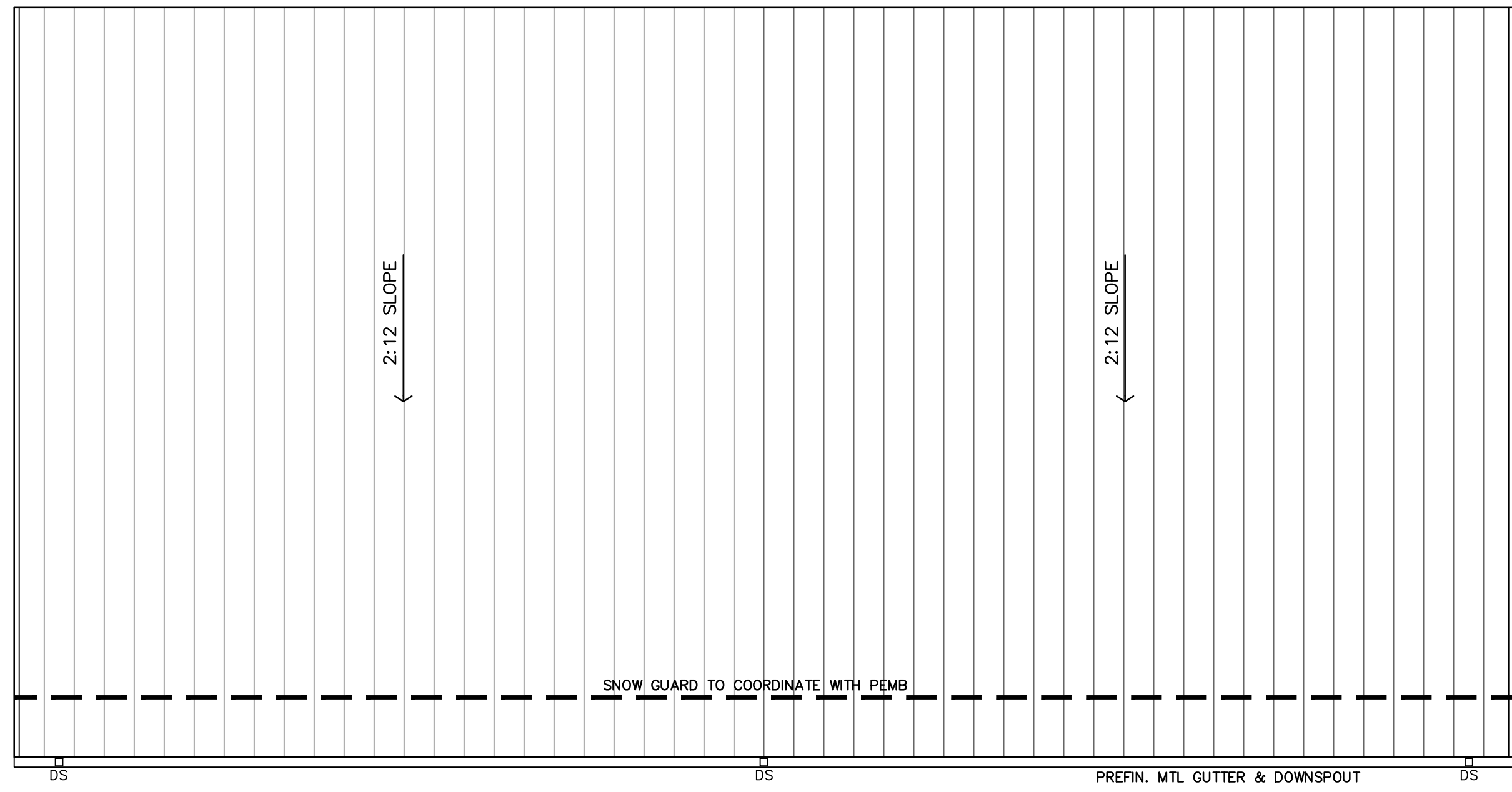
A4.1

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jgr@gillamrenz.com



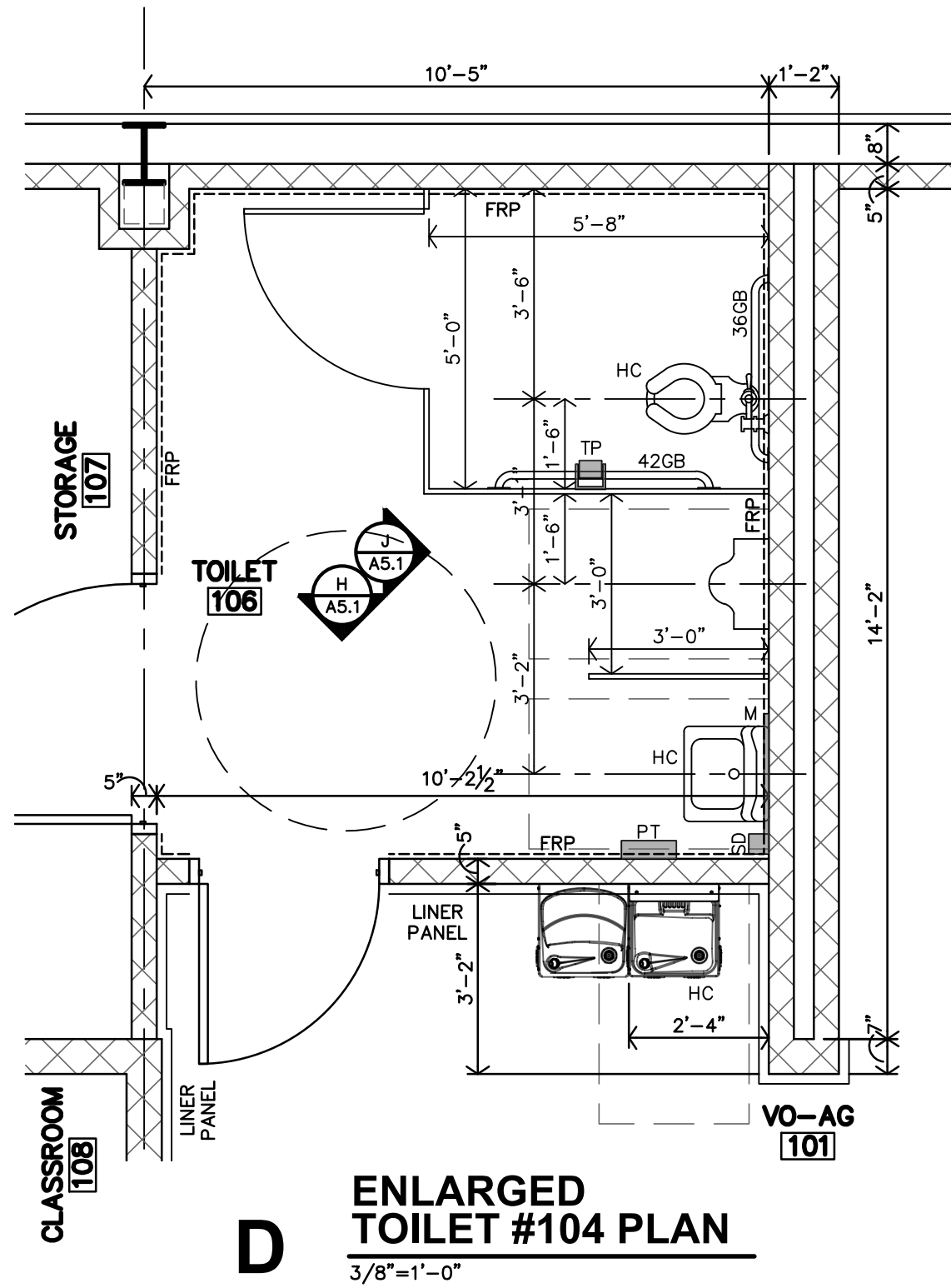
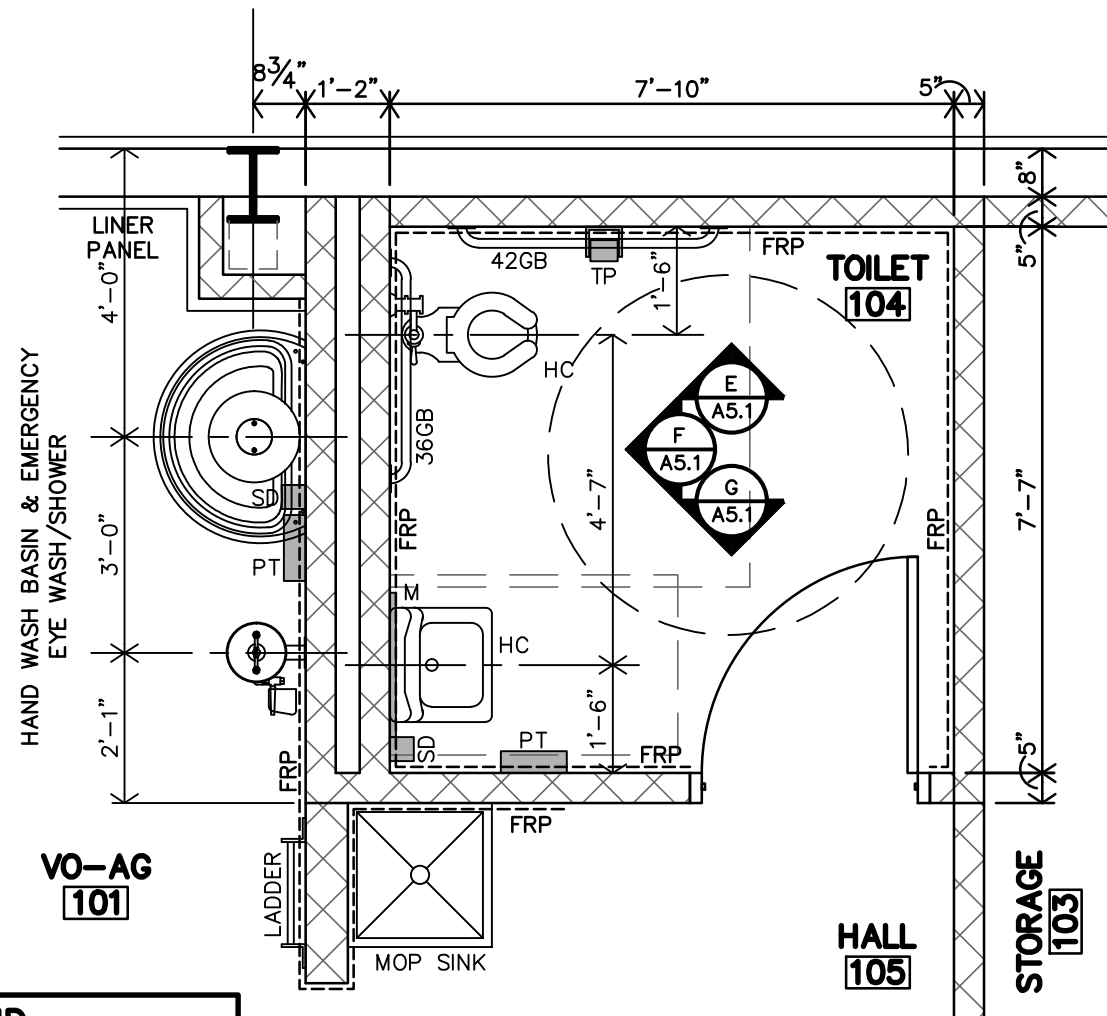
A ROOF PLAN
1/8"=1'-0"



- PRE-ENGINEERED METAL BUILDING (PEMB) NOTES**
1. DETAILS SHOWN ARE TYPICAL METAL BUILDING AND COMPONENT DETAILS. ACTUAL DETAILS MAY VARY BETWEEN MANUFACTURERS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE PEMB MANUFACTURER TO COORDINATE DISCREPANCIES AND WEATHERTIGHT CONSTRUCTION METHODS.
 2. FOR DETAILING PURPOSES, STANDARD RIBBED METAL BUILDING PANELS ARE SHOWN. REFERENCE THE SPECIFICATIONS FOR ACTUAL PANEL TYPES.
 3. FASTENER TYPES SHALL BE DETERMINED BY AND SUPPLIED BY THE PEMB MANUFACTURER. EXPOSED FASTENERS SHALL HAVE INTEGRAL NEOPRENE WASHERS.
 4. EXPOSED BREAK METAL TRIM AND CLOSURES SHALL HAVE CRIMPED EDGES, TYPICALLY.
 5. COORDINATE WITH THE ENTIRETY OF THE CONSTRUCTION DOCUMENTS FOR SPECIAL DETAILS, COMPONENTS, TRANSITIONS, TERMINATIONS, ETC.
 6. THE PEMB SHALL BE CONSTRUCTED OF A COMPLETELY WEATHER TIGHT ASSEMBLY. 20 YEAR NDL WARRANTY.
 7. REFERENCE THE ENTIRETY OF THE CONSTRUCTION DOCUMENTS FOR SPECIAL INSULATION CONDITIONS. NOTABLY, THE NORTH "OFFICE" AREAS SHALL RECEIVE FULL DEPTH INSULATION SYSTEM EQUAL TO "SIMPLE SAVER". CONTRACTOR AND BUILDING ERECTOR SHALL COORDINATE WITH THE INSTALLATION REQUIREMENTS FOR FULL DEPTH INSULATION.
 8. SNOW AND ICE GUARDS SHALL BE INSTALLED OVER THE BUILDING ENTRANCES. GUARDS SHALL NOT BE SCREWED THROUGH THE PEMB ROOF COMPONENTS.

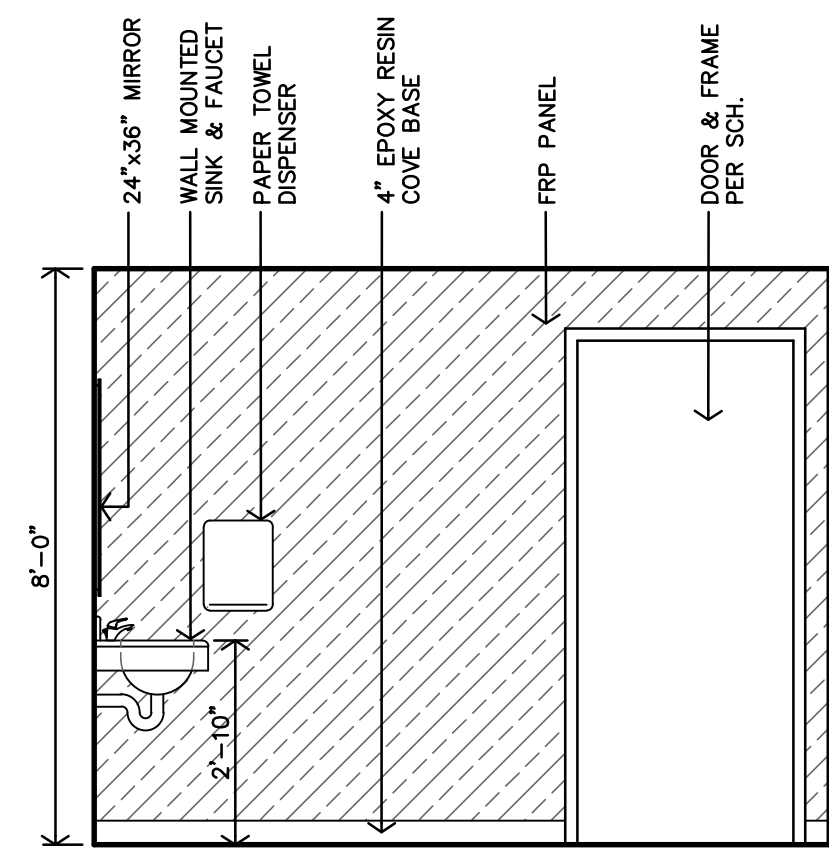
- LEGEND**
- M MIRROR
 - TP TOILET PAPER DISPENSER
 - SD SOAP DISPENSER
 - PT PAPER TOWEL DISPENSER
 - WR WASTE RECEPTACLE B.O.

C ENLARGED TOILET #104 PLAN
3/8"=1'-0"

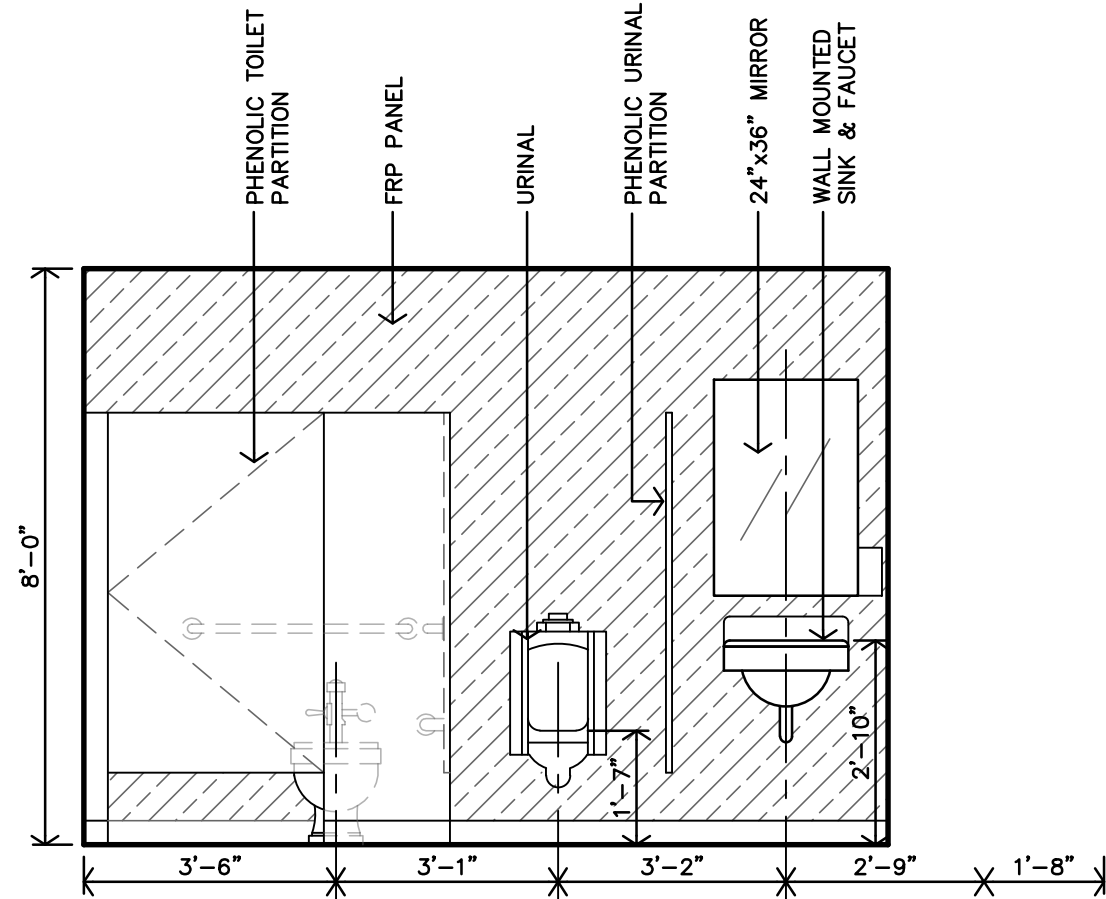


D ENLARGED TOILET #104 PLAN
3/8"=1'-0"

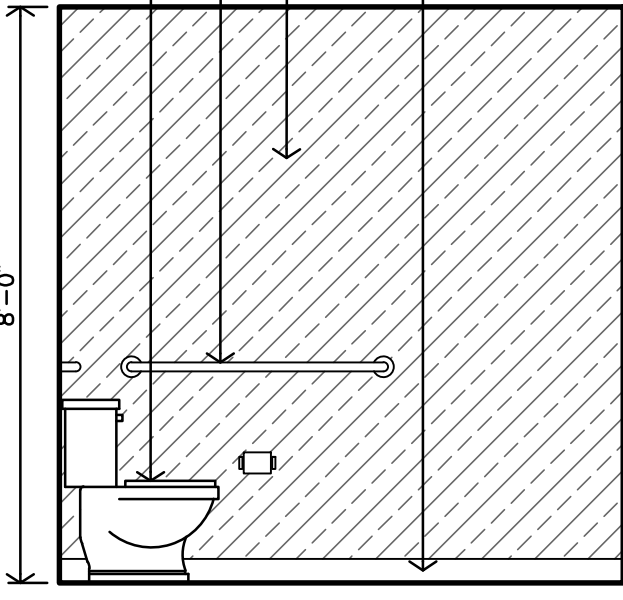
H TOILET #106 INTERIOR ELEVATION
3/8"=1'-0"



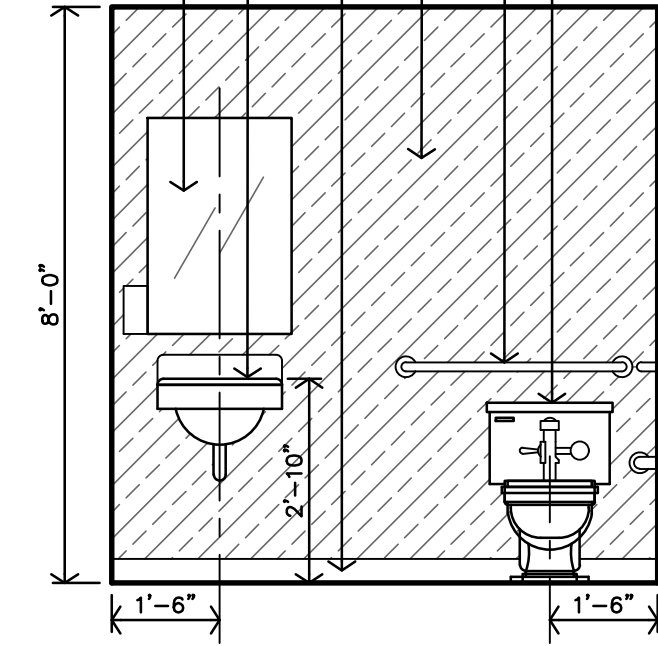
J TOILET #106 INTERIOR ELEVATION
3/8"=1'-0"



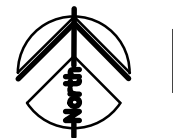
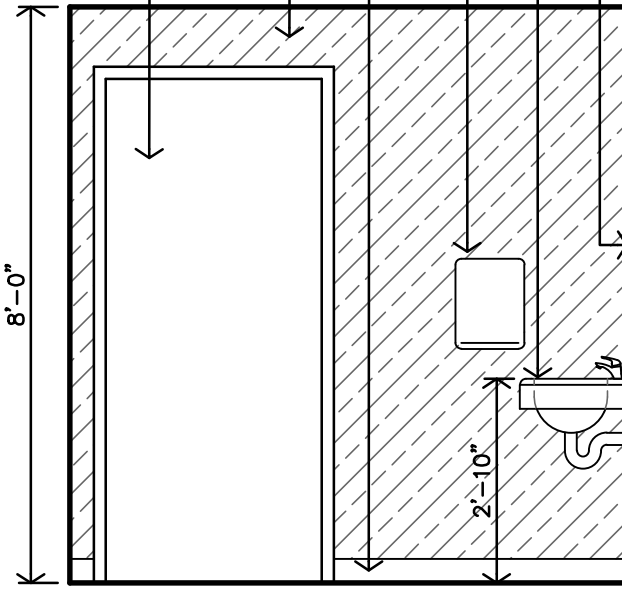
E TOILET #104 INTERIOR ELEVATION
3/8"=1'-0"



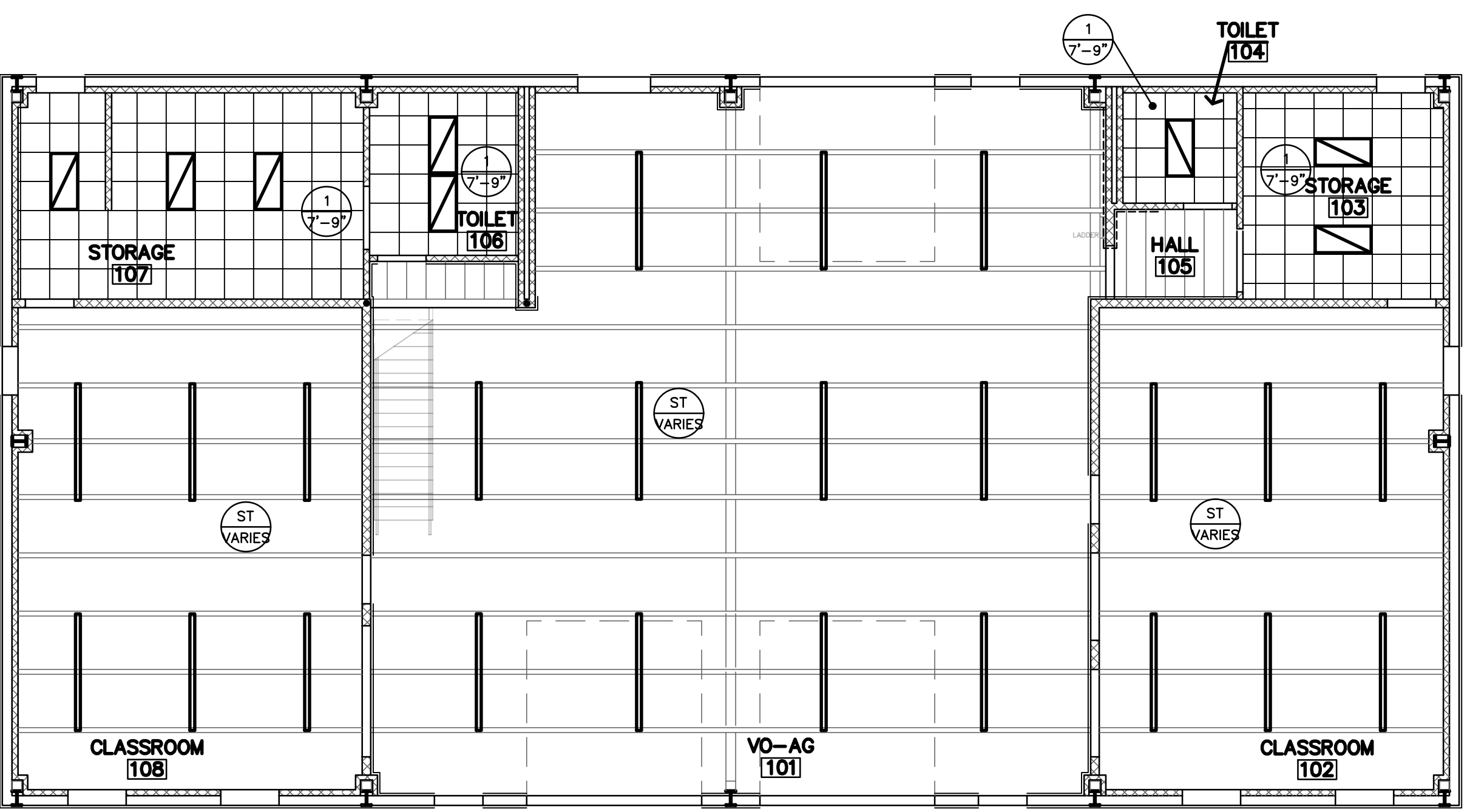
F TOILET #104 INTERIOR ELEVATION
3/8"=1'-0"



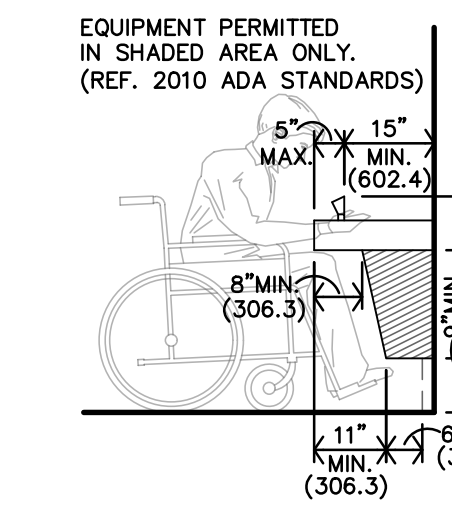
G TOILET #104 INTERIOR ELEVATION
3/8"=1'-0"



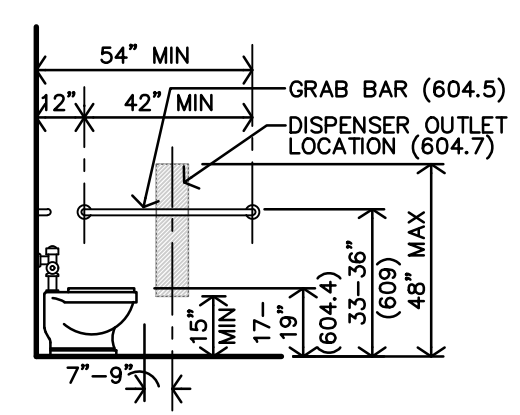
B REFLECTED CEILING PLAN
1/8"=1'-0"



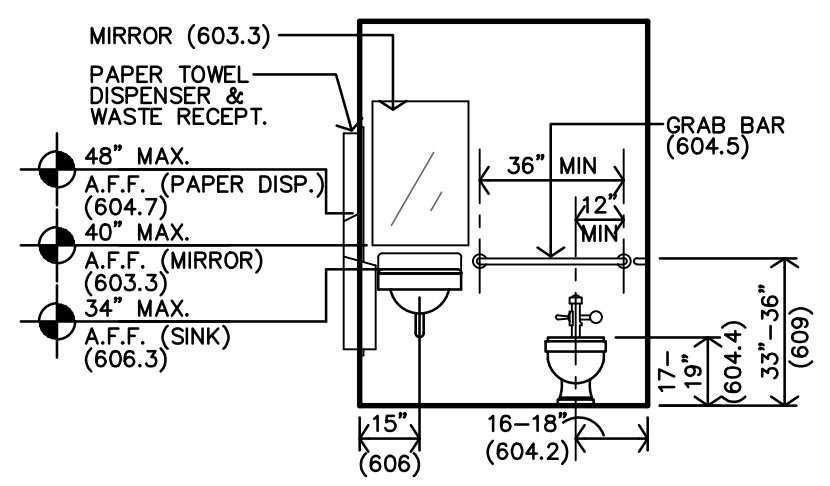
- REFLECTED CEILING PLAN NOTES**
1. CONTRACTOR SHALL COORDINATE CEILING LAYOUT WITH MECHANICAL AND ELECTRICAL FIXTURE LOCATIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICT OR DISCREPANCY.
 2. MECHANICAL/ELECTRICAL FIXTURES @ ALL CEILINGS SHALL BE HUNG IN CONFORMANCE TO U.L. SYSTEM REQUIREMENTS.
 3. CEILING MOUNTED MECHANICAL EQUIPMENT AND SUSPENDED MECHANICAL EQUIPMENT MUST BE SUSPENDED DIRECTLY FROM THE STRUCTURE.
 4. AREAS ABOVE THE FINISHED CEILING ARE PART OF A RETURN AIR PLENUM. ALL MATERIALS INCLUDING THE INSULATION SHALL HAVE FLAME SPREAD LESS THAN 25 AND SMOKE DEVELOPED LESS THAN 50.
 5. SPECIAL CEILING GRID FRAMING IS REQUIRED AT SOME CEILING MOUNTED MECHANICAL EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH MECHANICAL UNITS AND PROVIDE ALL SUSPENSION, TRIM, CLIPS, ETC. AS REQUIRED FOR A NEAT, FINISHED, AND SECURE CEILING SYSTEM.
 6. WHERE SUSPENSION DEVICES, WIRES, RODS, ETC. PENETRATE CEILING GRID AND/OR TILE OR G.B. PENETRATIONS SHALL BE NEAT AND CLEANLY CUT. PENETRATION OPENING SHALL BE AS SMALL AS POSSIBLE. SEAL AT G.B.
- CEILING TYPES**
- | | |
|----|-------------------|
| 1 | 2x2 FISSURED |
| GB | GYP BD (PAINTED) |
| ST | EXPOSED STRUCTURE |
- CLG. TYPE
- CLG. HEIGHT A.F.F.



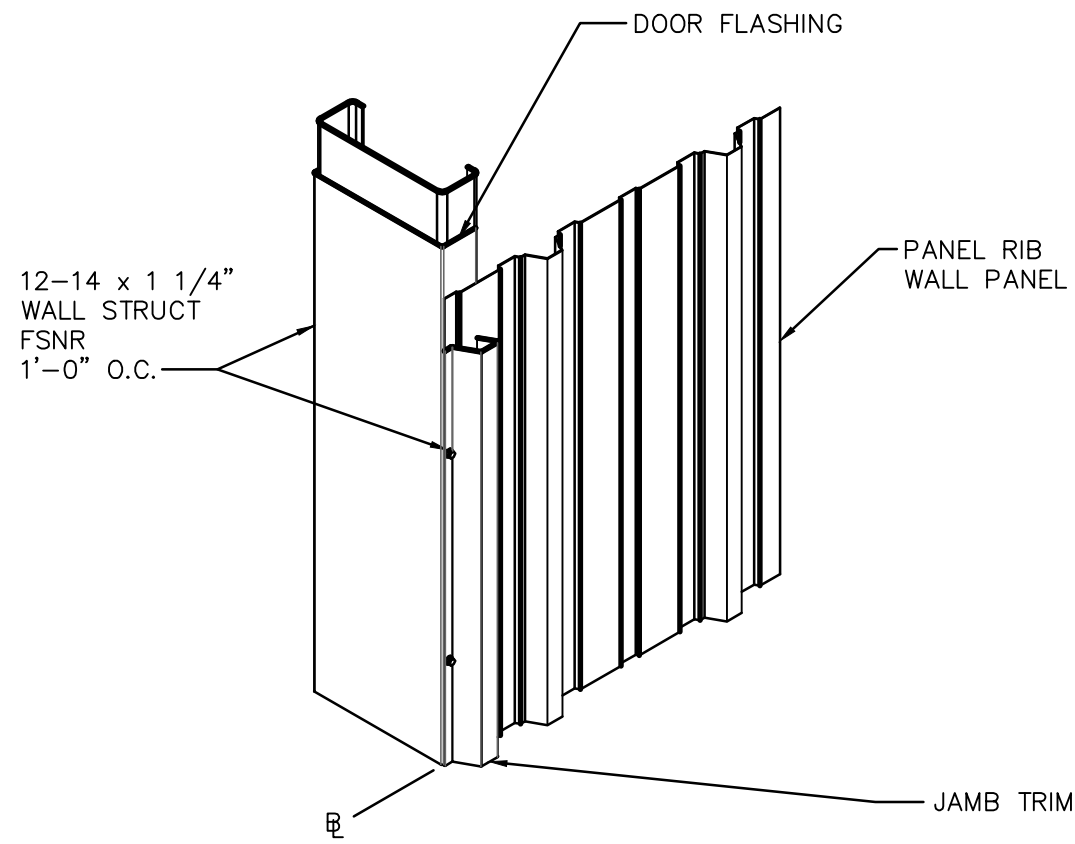
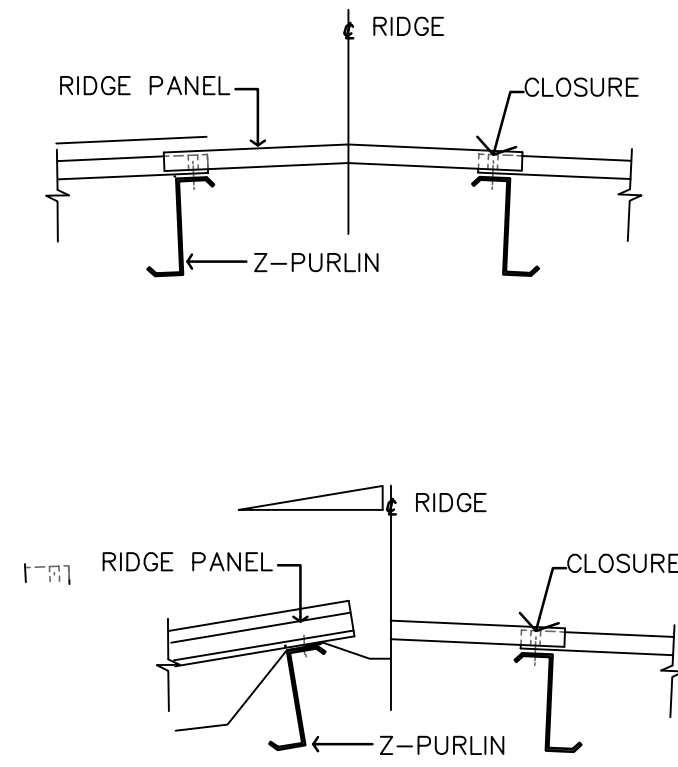
M DRINKING FOUNTAIN DETAIL
3/8"=1'-0" FOR ACCESSIBLE HEIGHTS & LOCATION ONLY



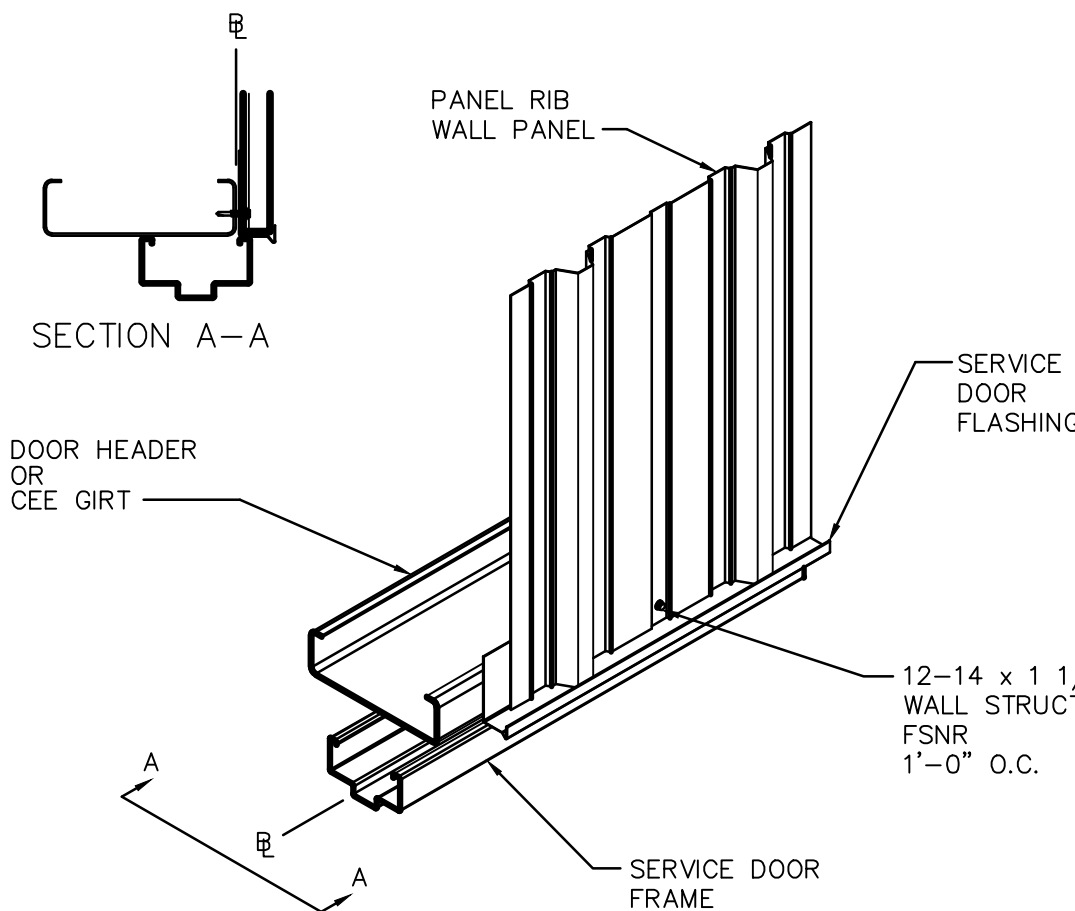
L TYP. HEIGHTS @ ACC. TOILET SIDE WALL
1/4"=1'-0" FOR ACCESSIBLE HEIGHTS & LOCATION ONLY



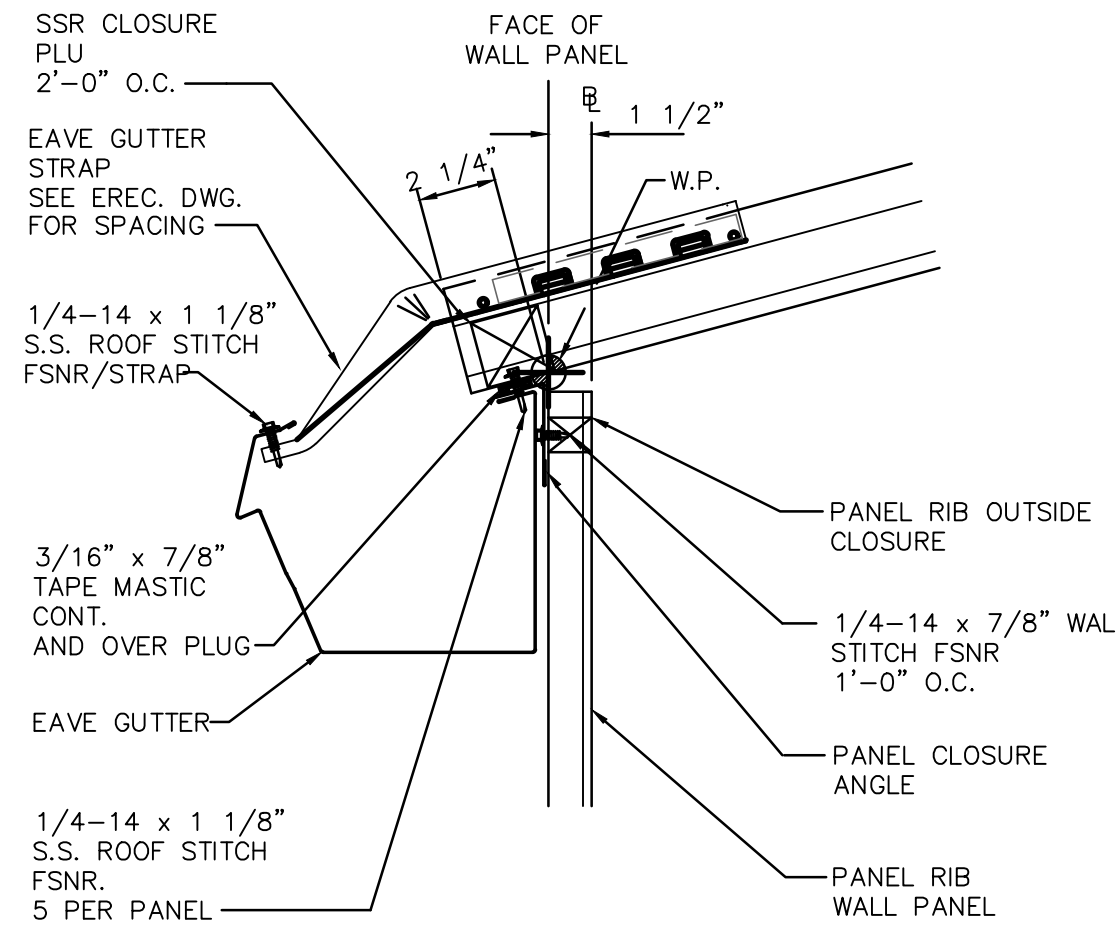
K TYP. HEIGHTS @ ACC. TOILET BACK WALL
1/4"=1'-0" FOR ACCESSIBLE HEIGHTS & LOCATION ONLY



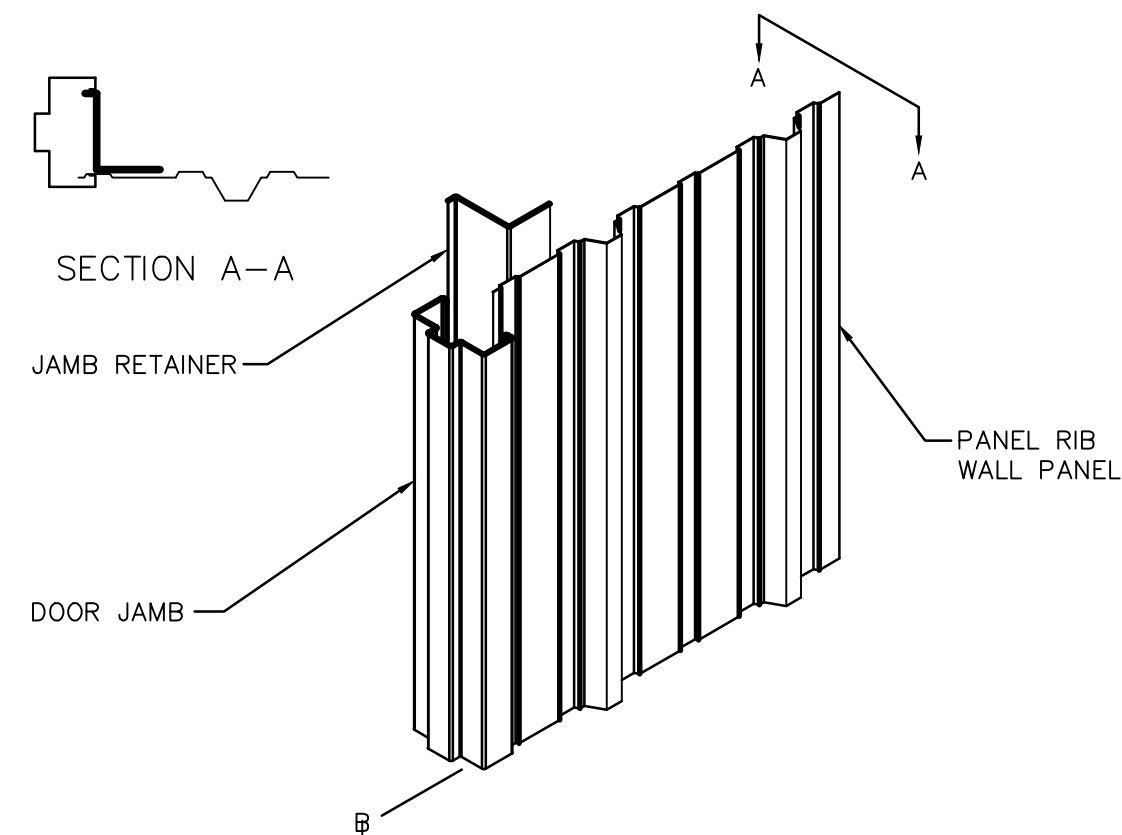
P **OPENING or O.H. DR JAMB**
NO SCALE



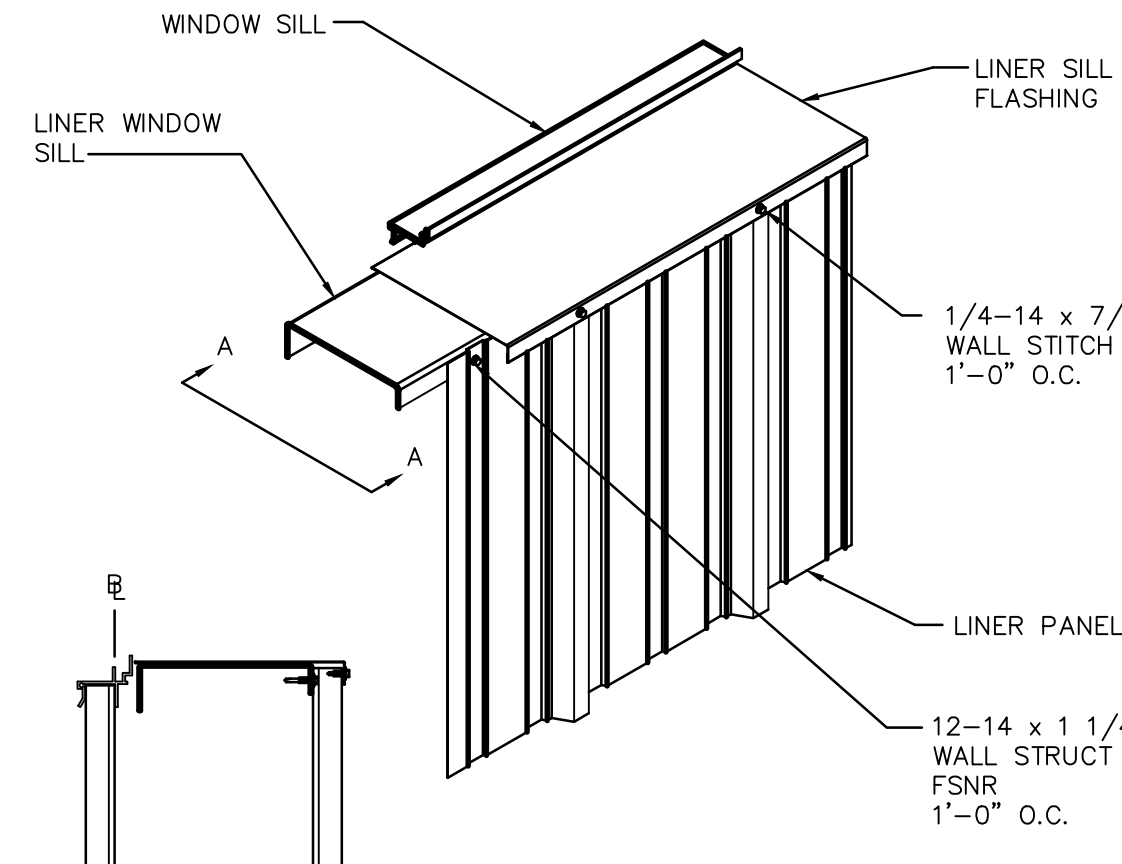
O **DOOR HEAD DETAIL**
NO SCALE



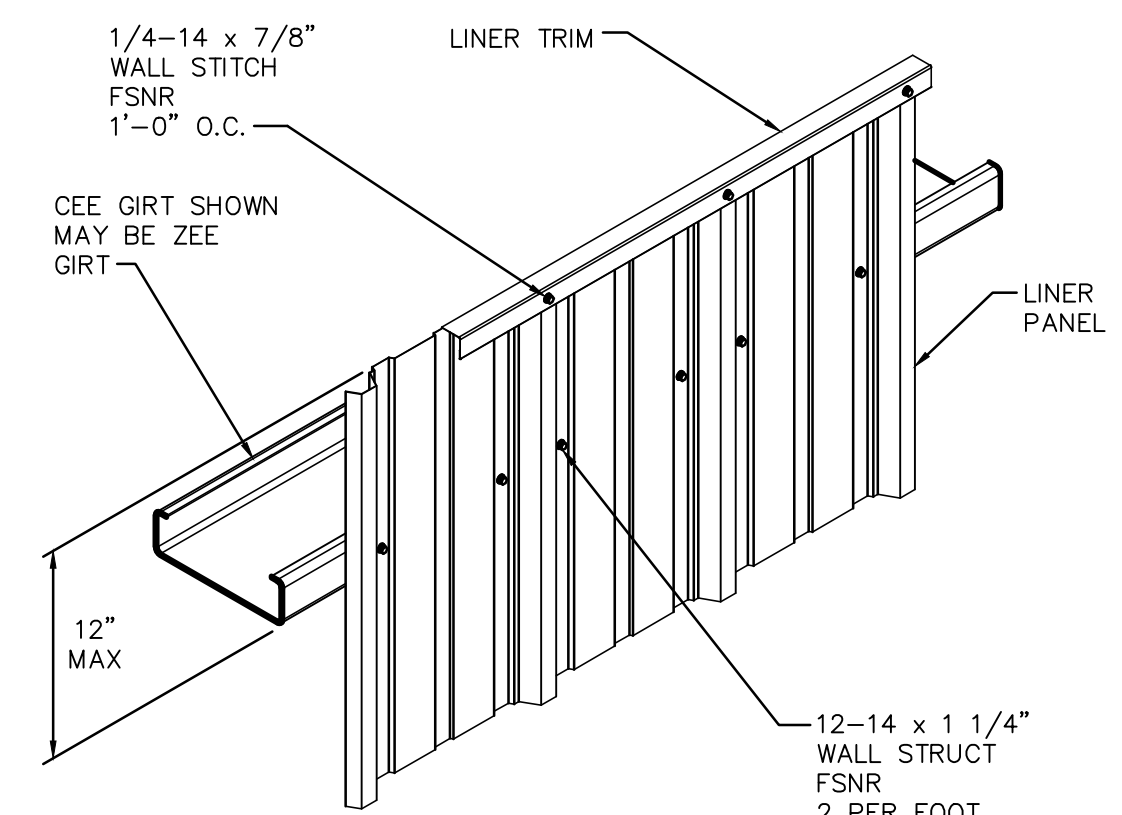
N **GUTTER DETAIL**
NO SCALE



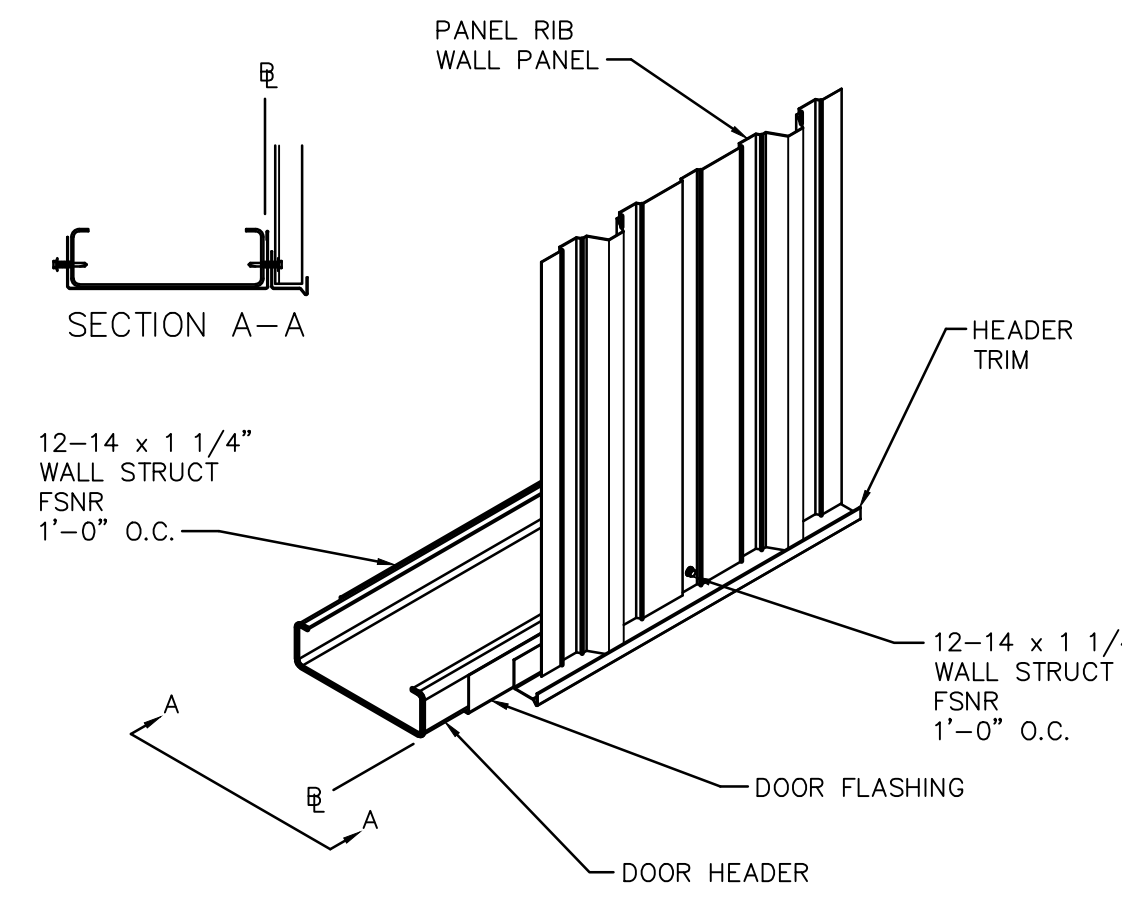
M **DOOR JAMB DETAIL**
NO SCALE



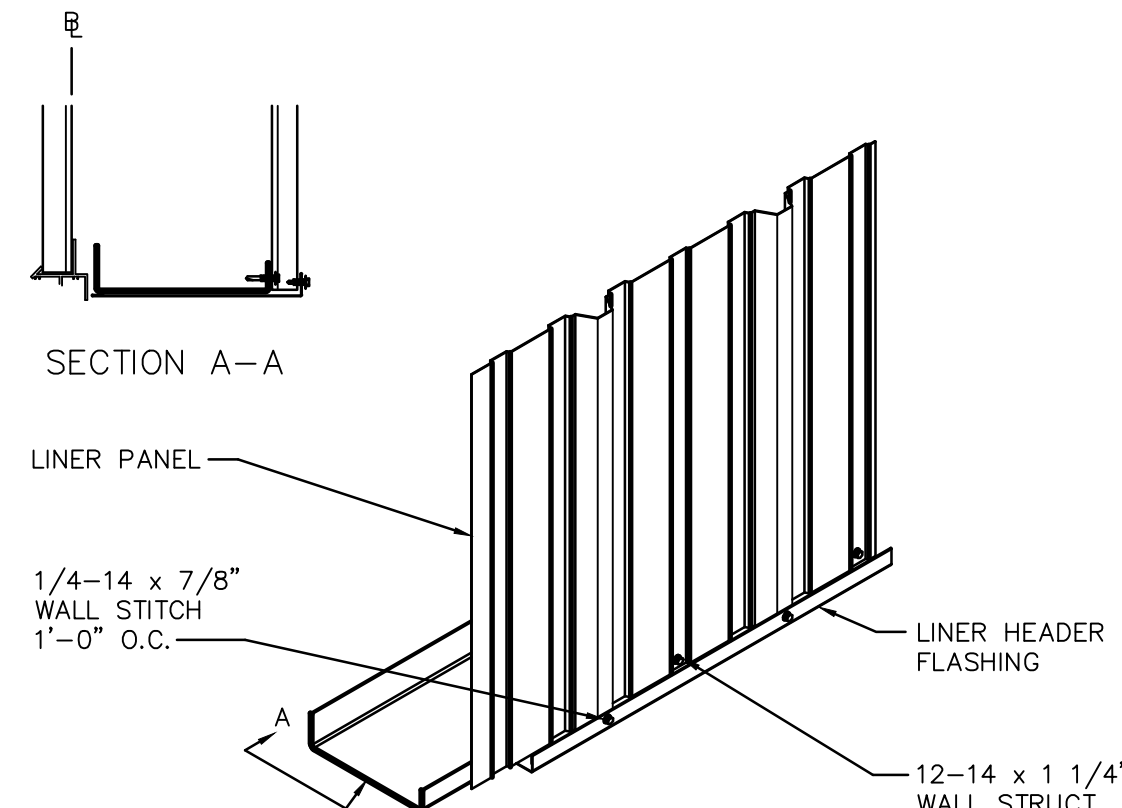
L **WINODW SILL DETAIL**
NO SCALE



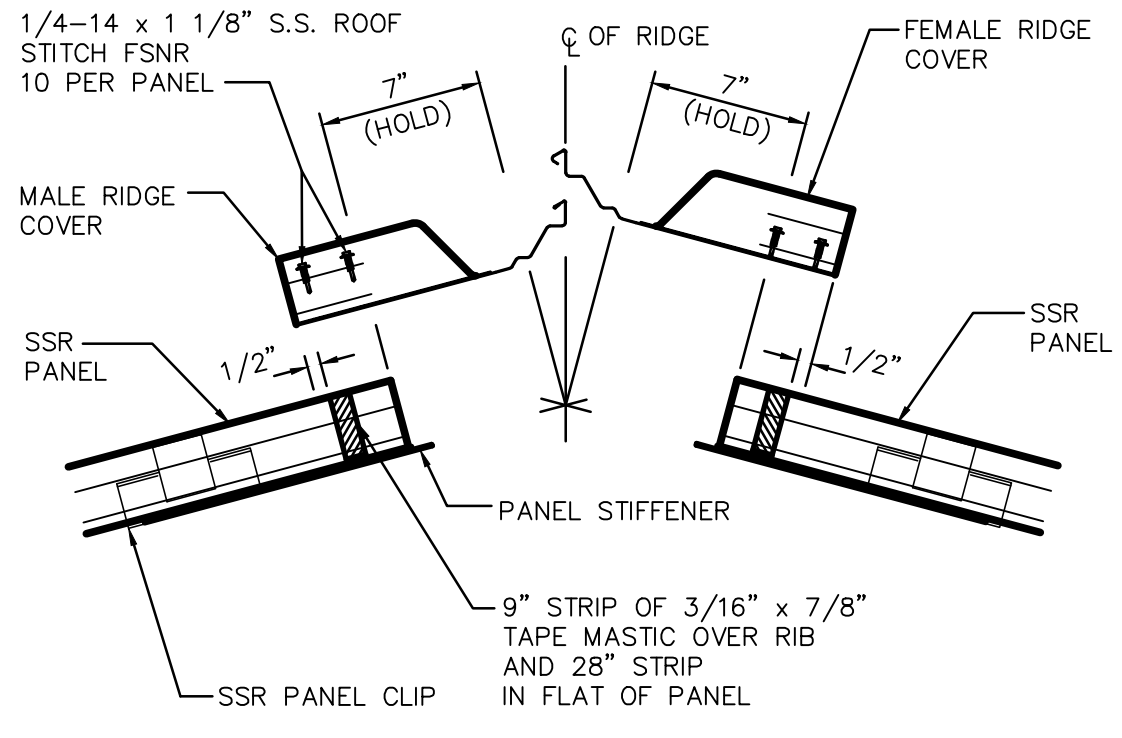
K **LINER PANEL TERMINATION**
NO SCALE



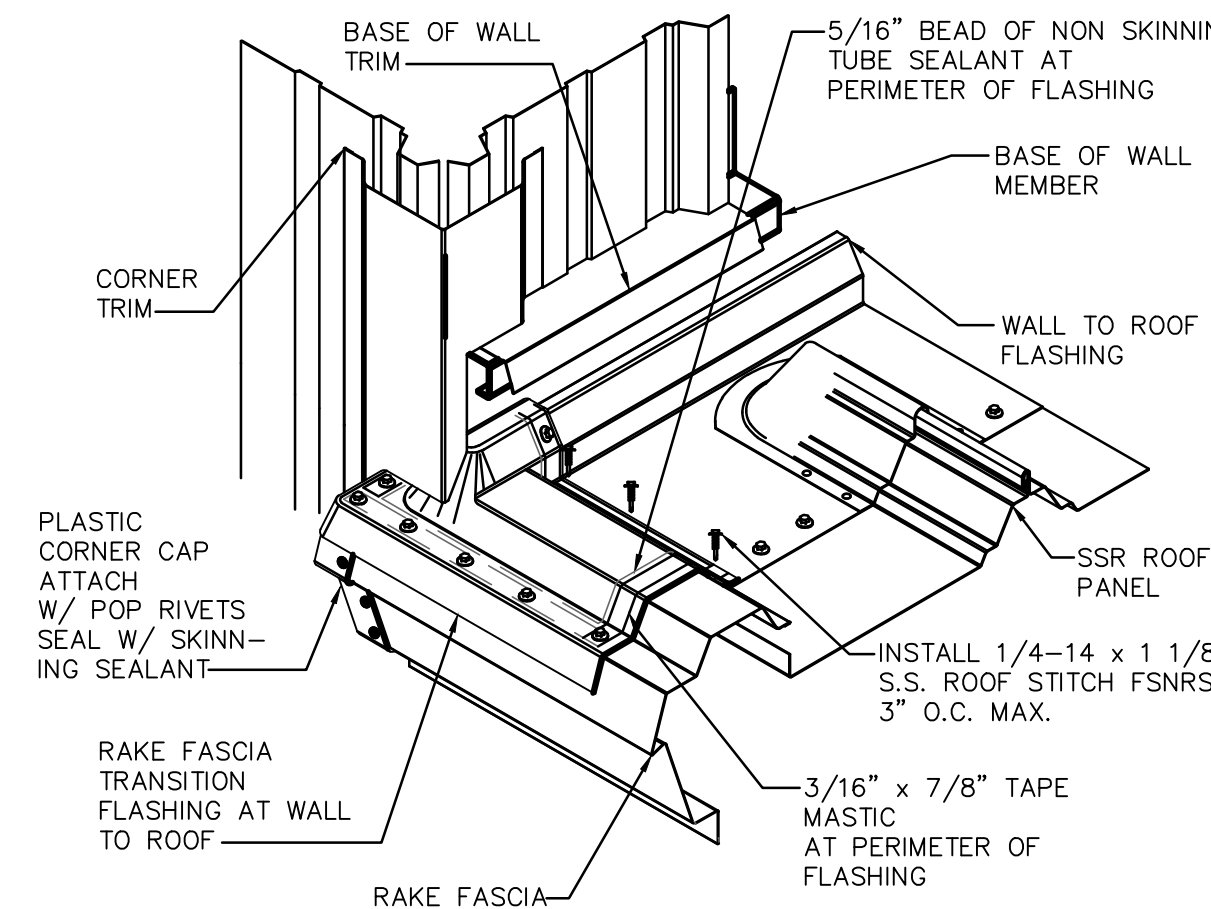
J **OPENING or O.H. DR HEAD**
NO SCALE



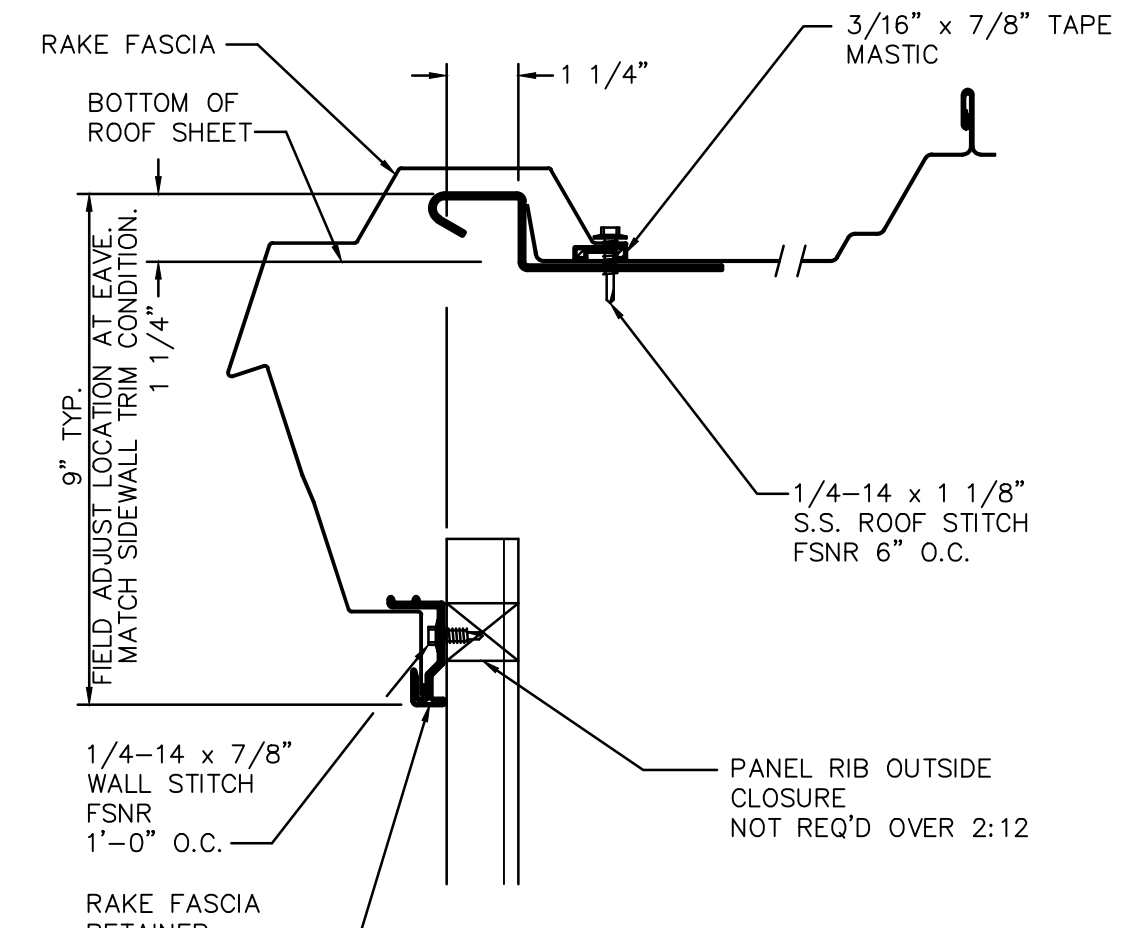
H **WINDOW HEAD DETAIL**
NO SCALE



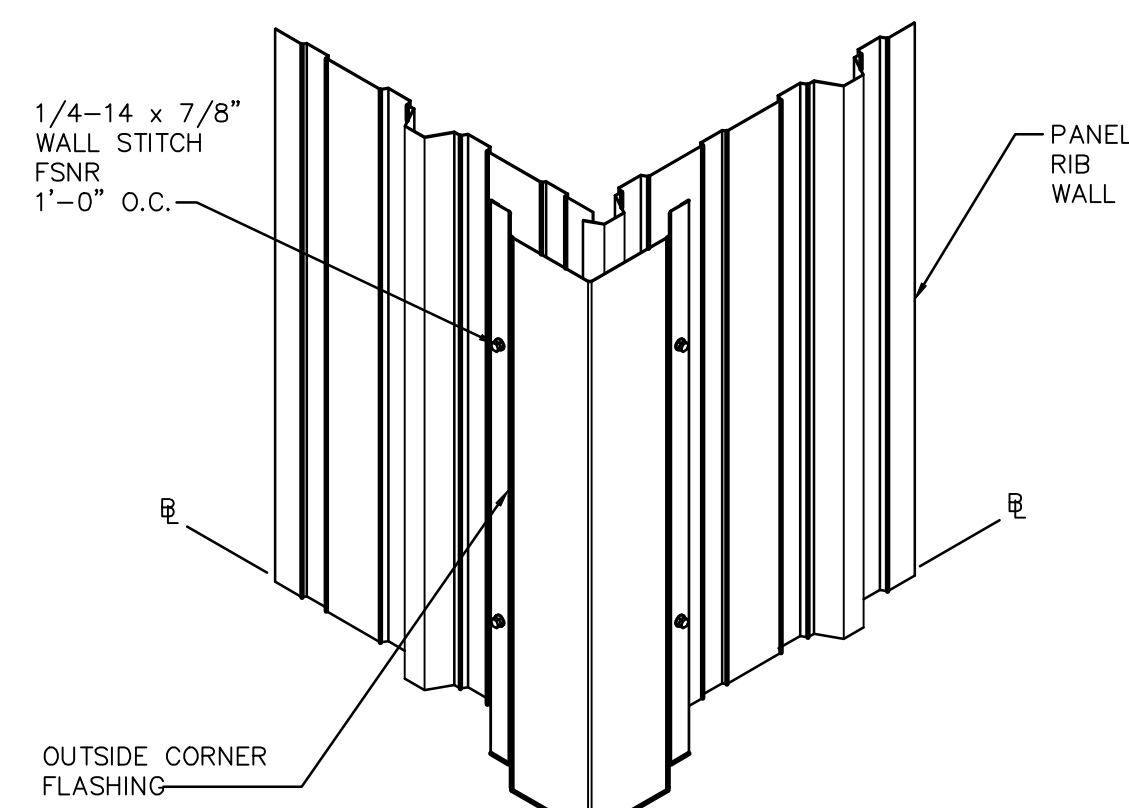
G **RIDGE DETAIL**
NO SCALE



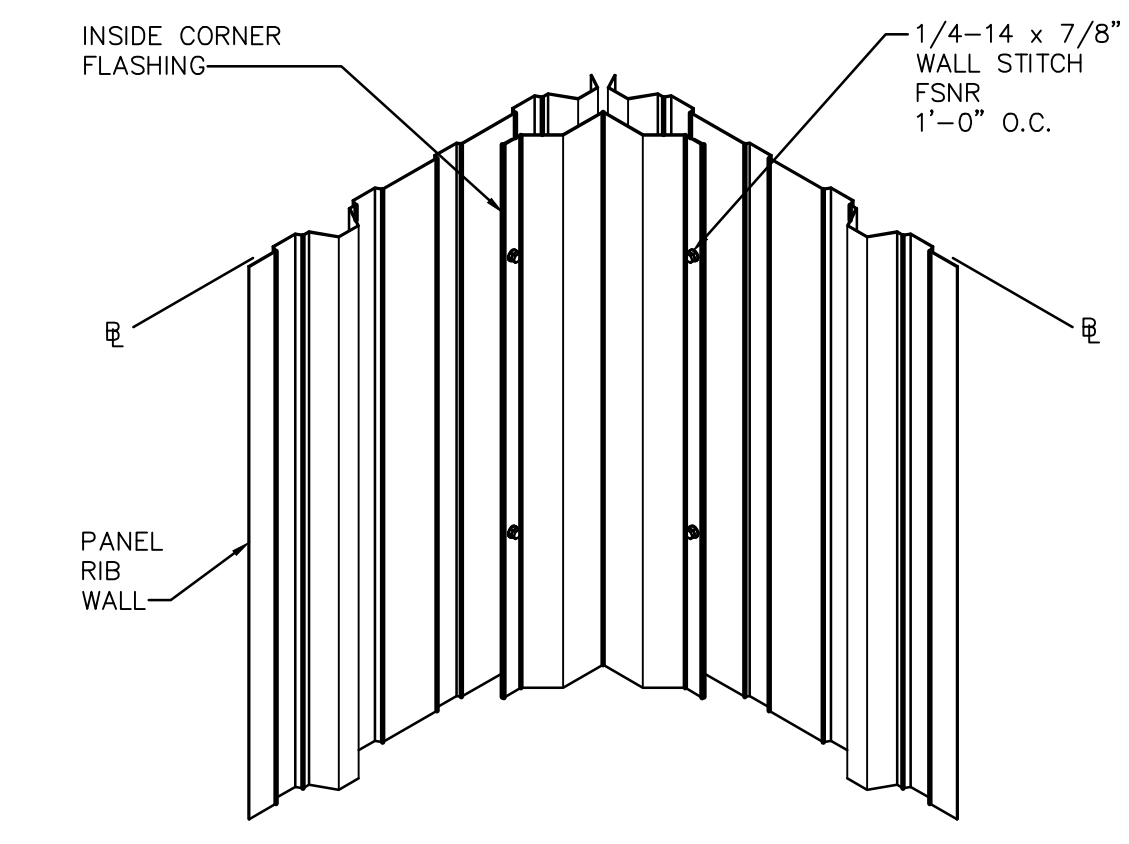
F **RAKE TO WALL DETAIL**
NO SCALE



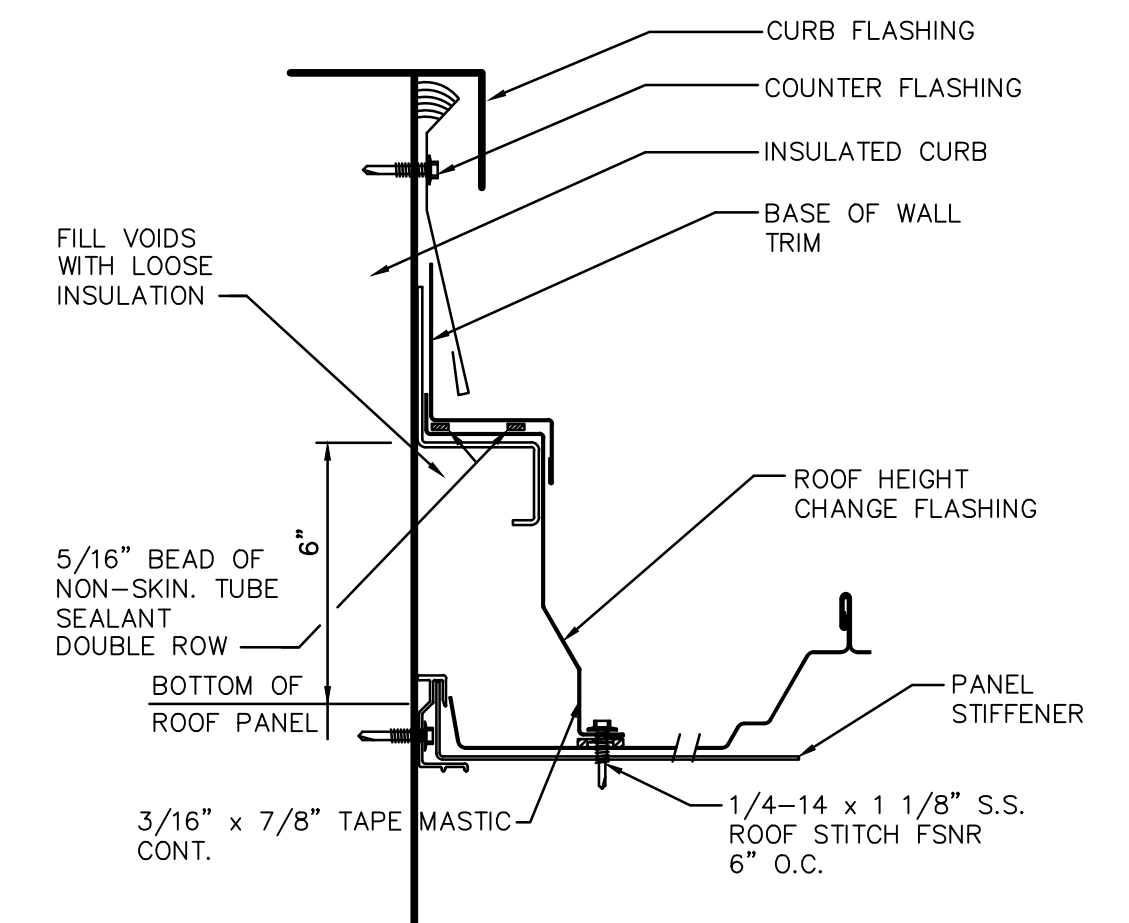
E **RAKE DETAIL**
NO SCALE



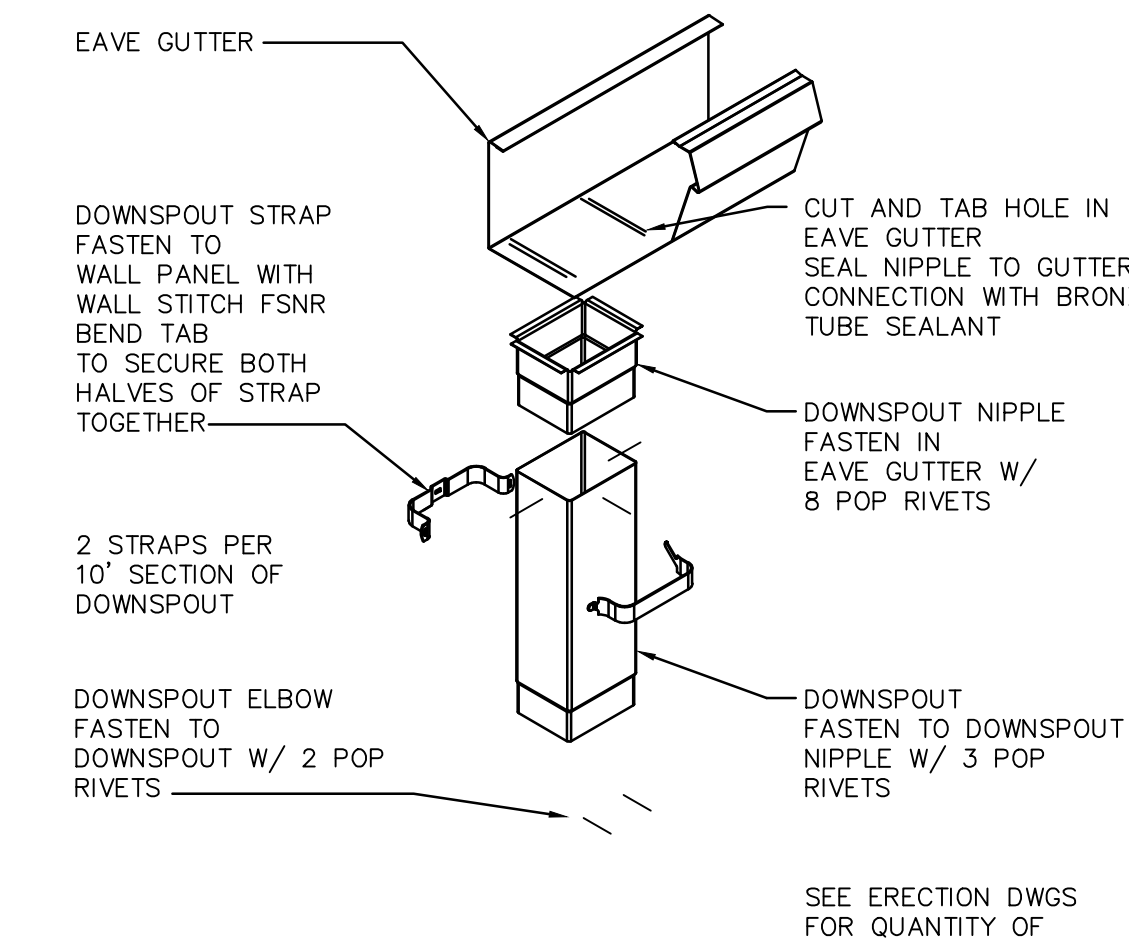
D **OUTSIDE CORNER FLASHING**
NO SCALE



C **INSIDE CORNER FLASHING**
NO SCALE

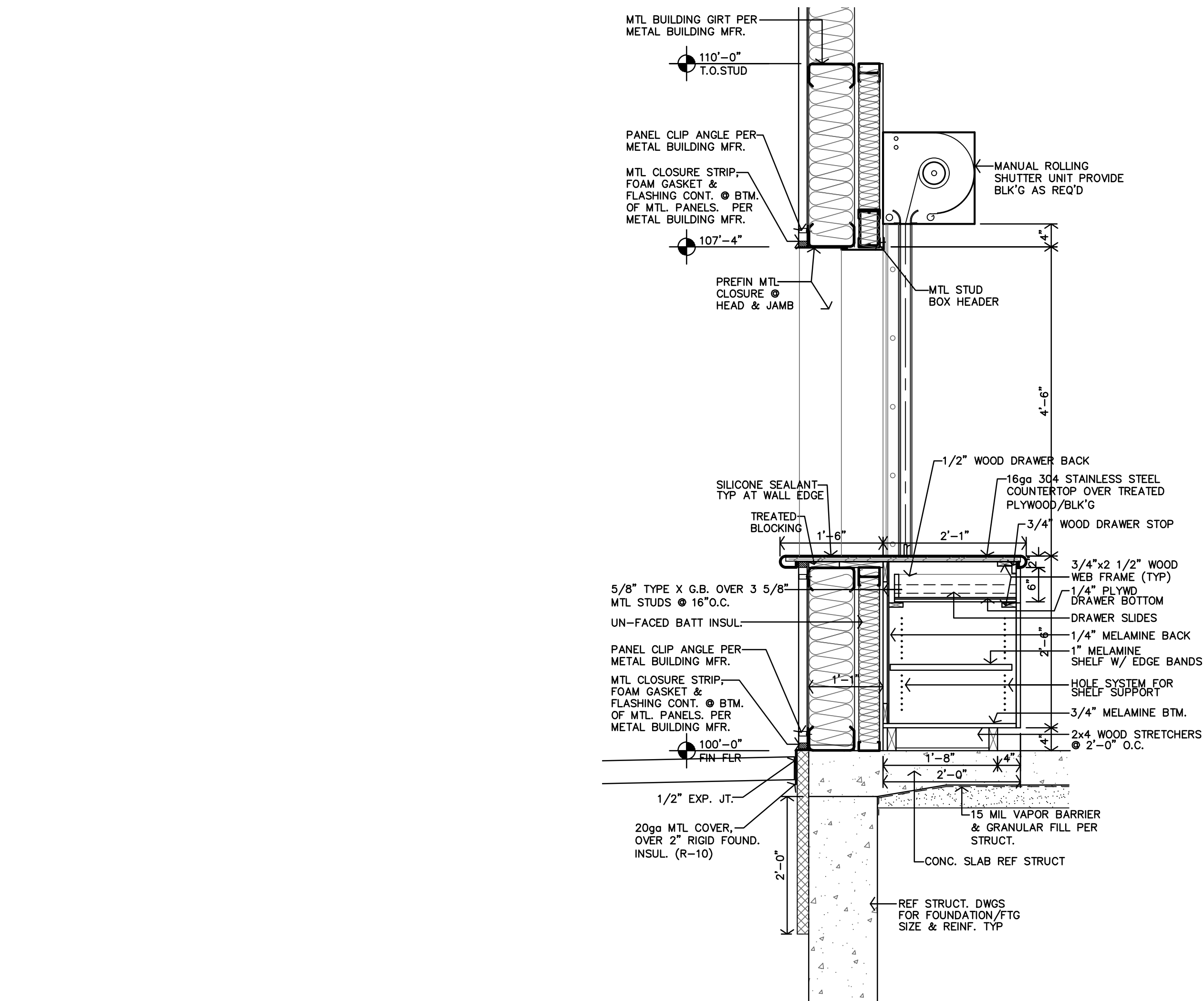


B **ROOF CURB/TRANSITION**
NO SCALE

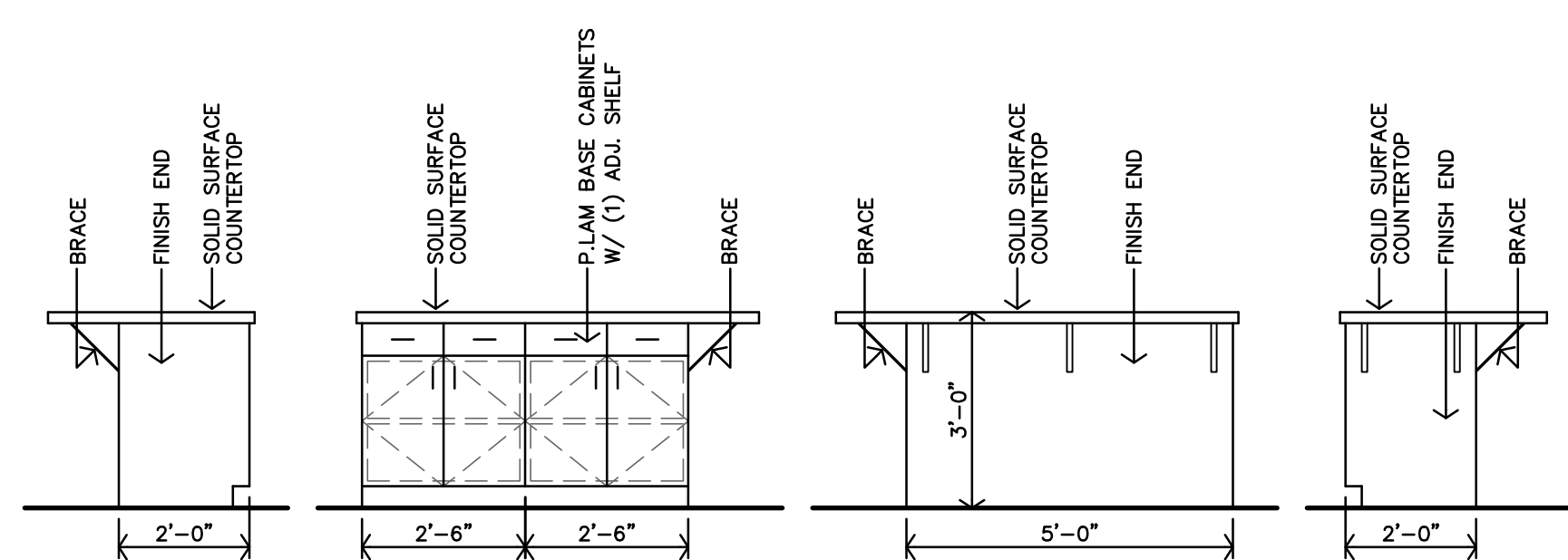


A **GUTTER & DOWNSPOUT**
NO SCALE

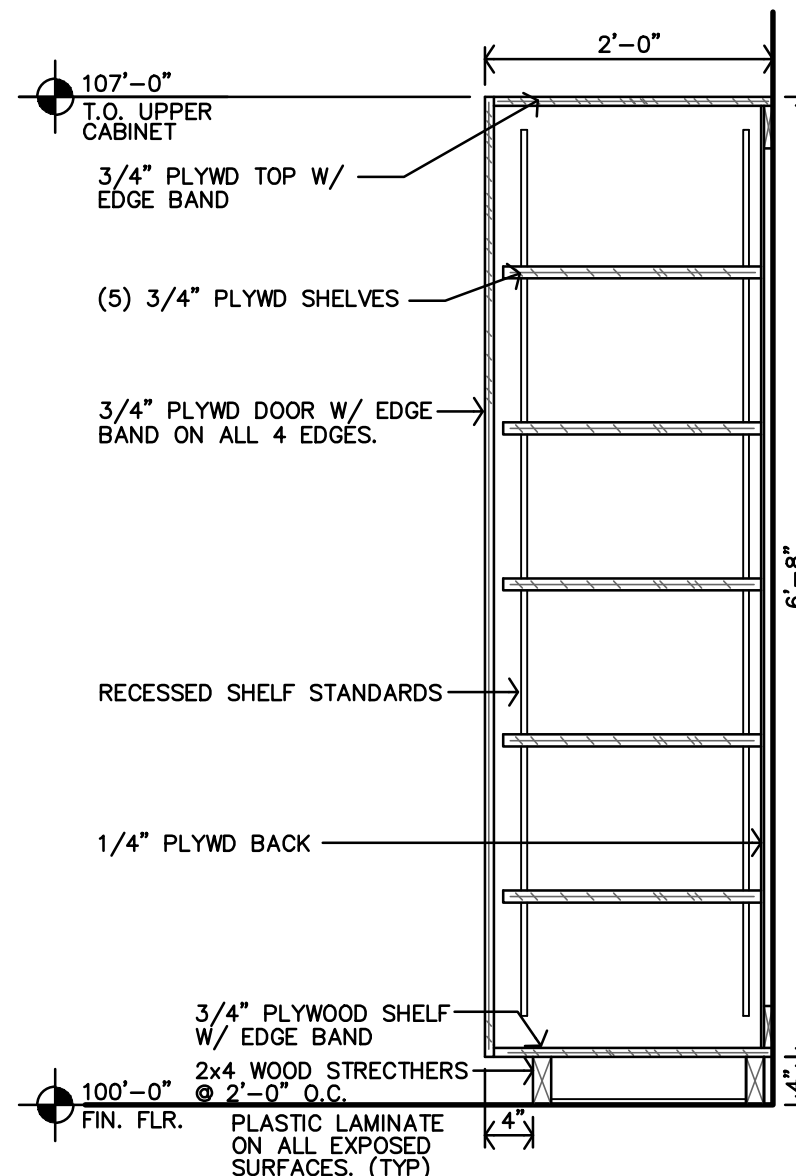
PRE-ENGINEERED METAL BUILDING COMPONENTS, CONDITIONS VARY
1. TYPICAL MANUFACTURE DETAILS. LOCAL CONDITIONS MAY VARY. REFER AND CONSULT THE W/ BUILDING DETAILS PROVIDING THE
1. MANUFACTURER'S MOST STRINGENT REQUIREMENTS, RECOMMENDATIONS, NECESSARY TO ACHIEVE COMPLETE WATERTIGHT WARRANTY.



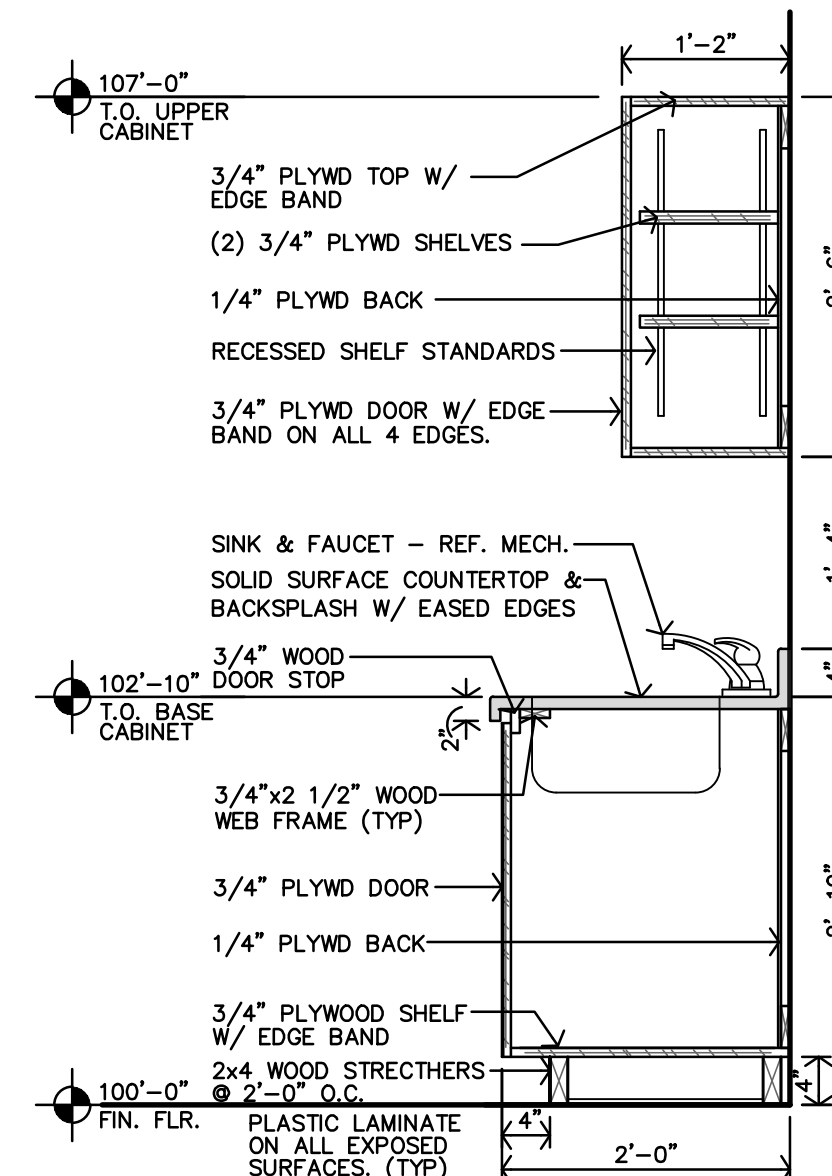
N WALL SECTION
3/4"=1'-0"



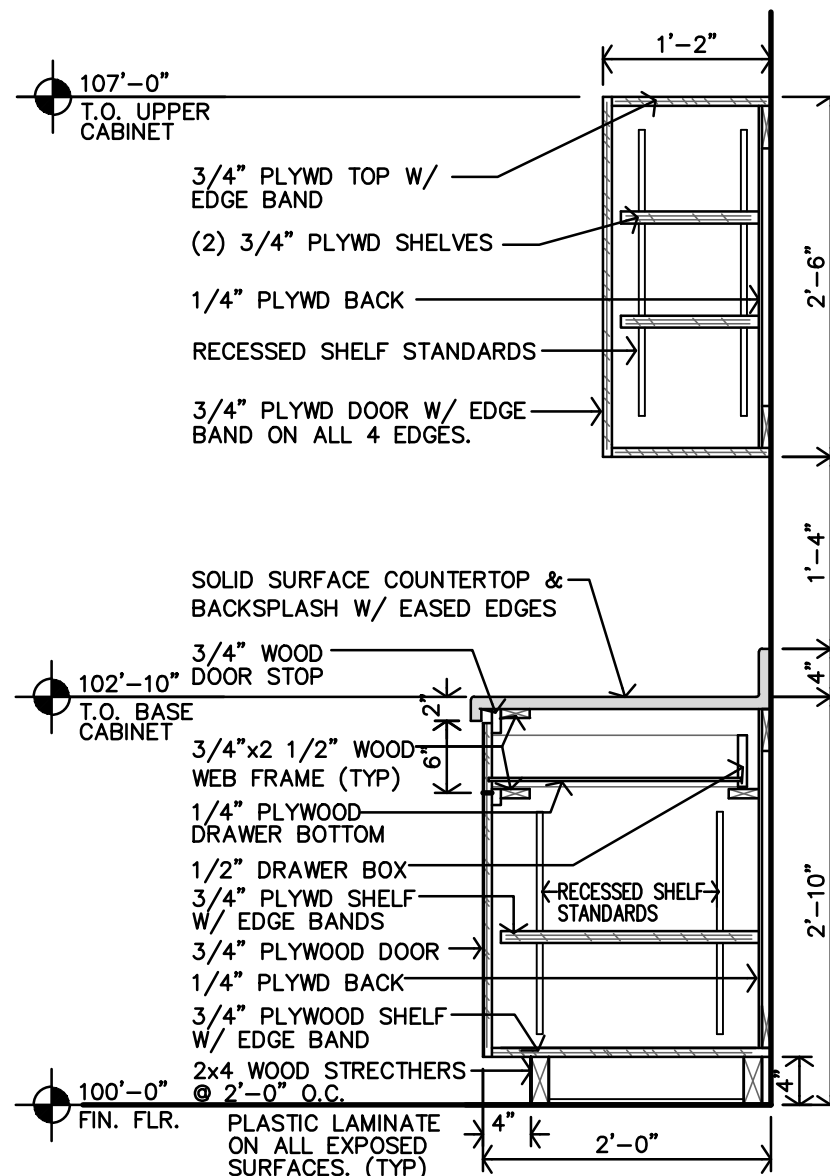
J VO-AG #101 ISLAND CASEWORK ELEVATIONS
1/4"=1'-0"



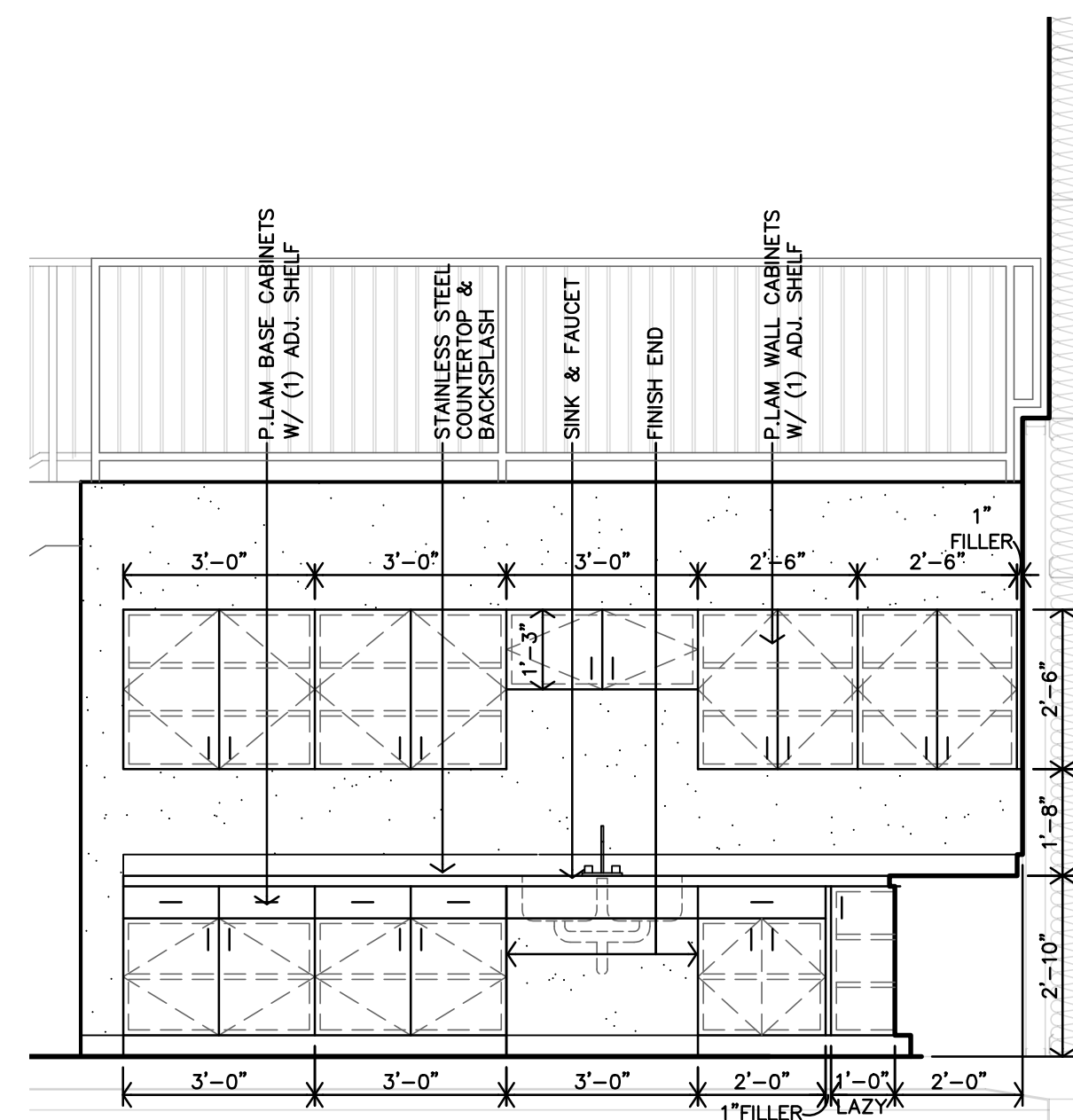
M TYPICAL CLASSROOM CASEWORK SECTION
3/4"=1'-0"



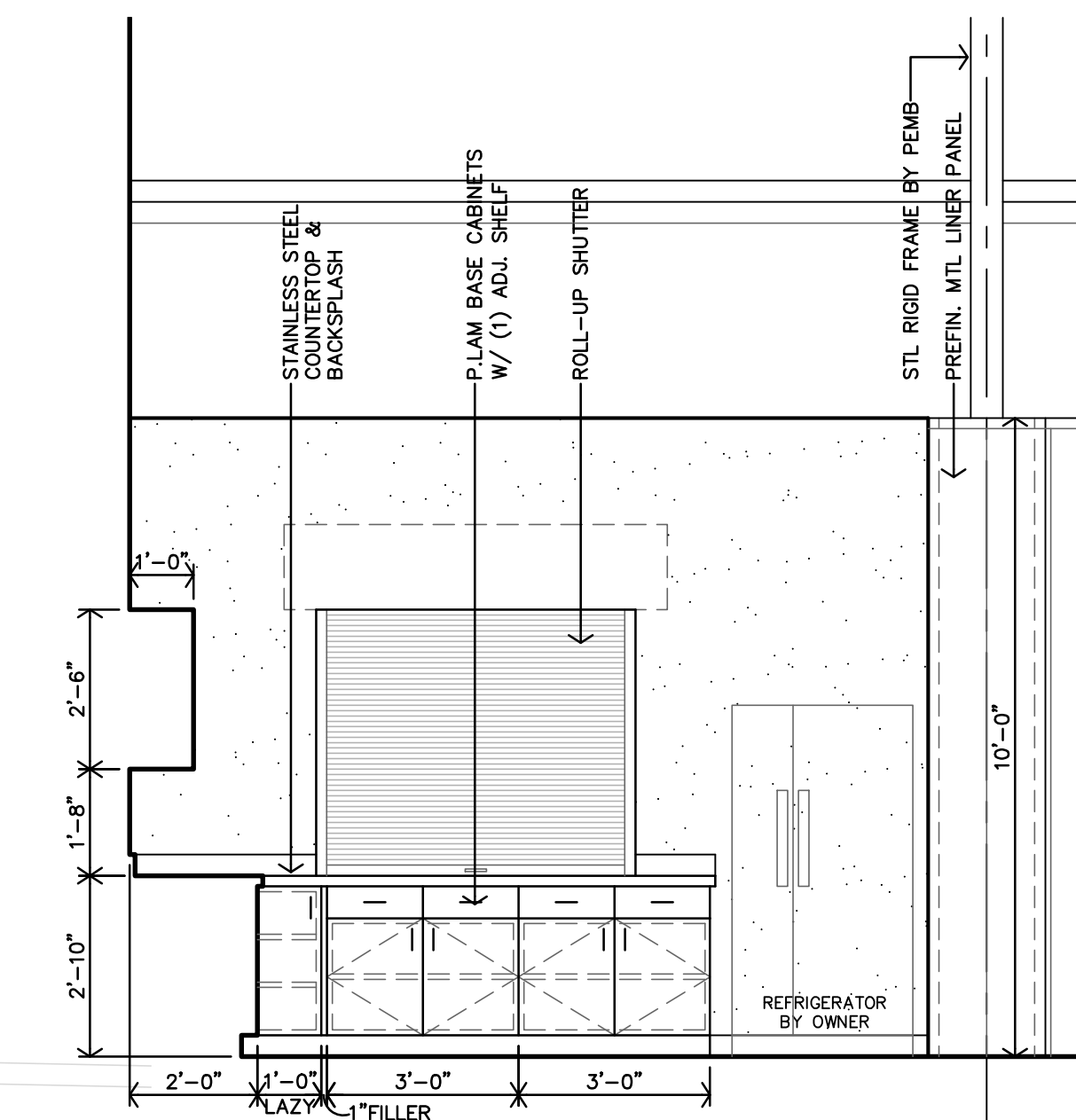
L TYPICAL CLASSROOM CASEWORK SECTION
3/4"=1'-0"



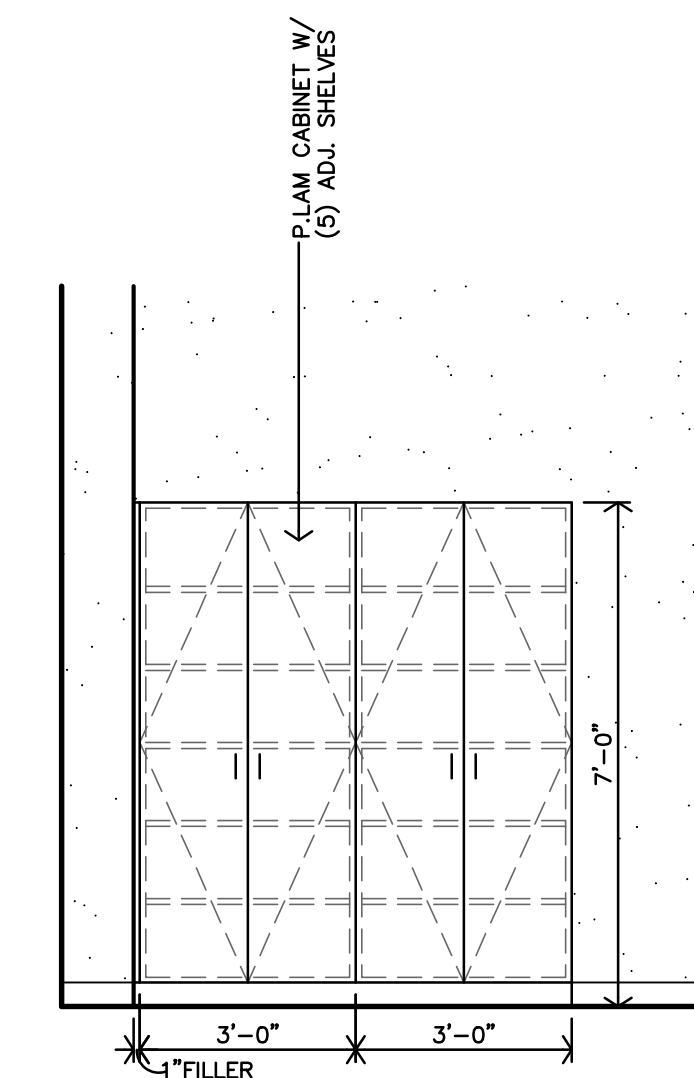
K TYPICAL CLASSROOM CASEWORK SECTION
3/4"=1'-0"



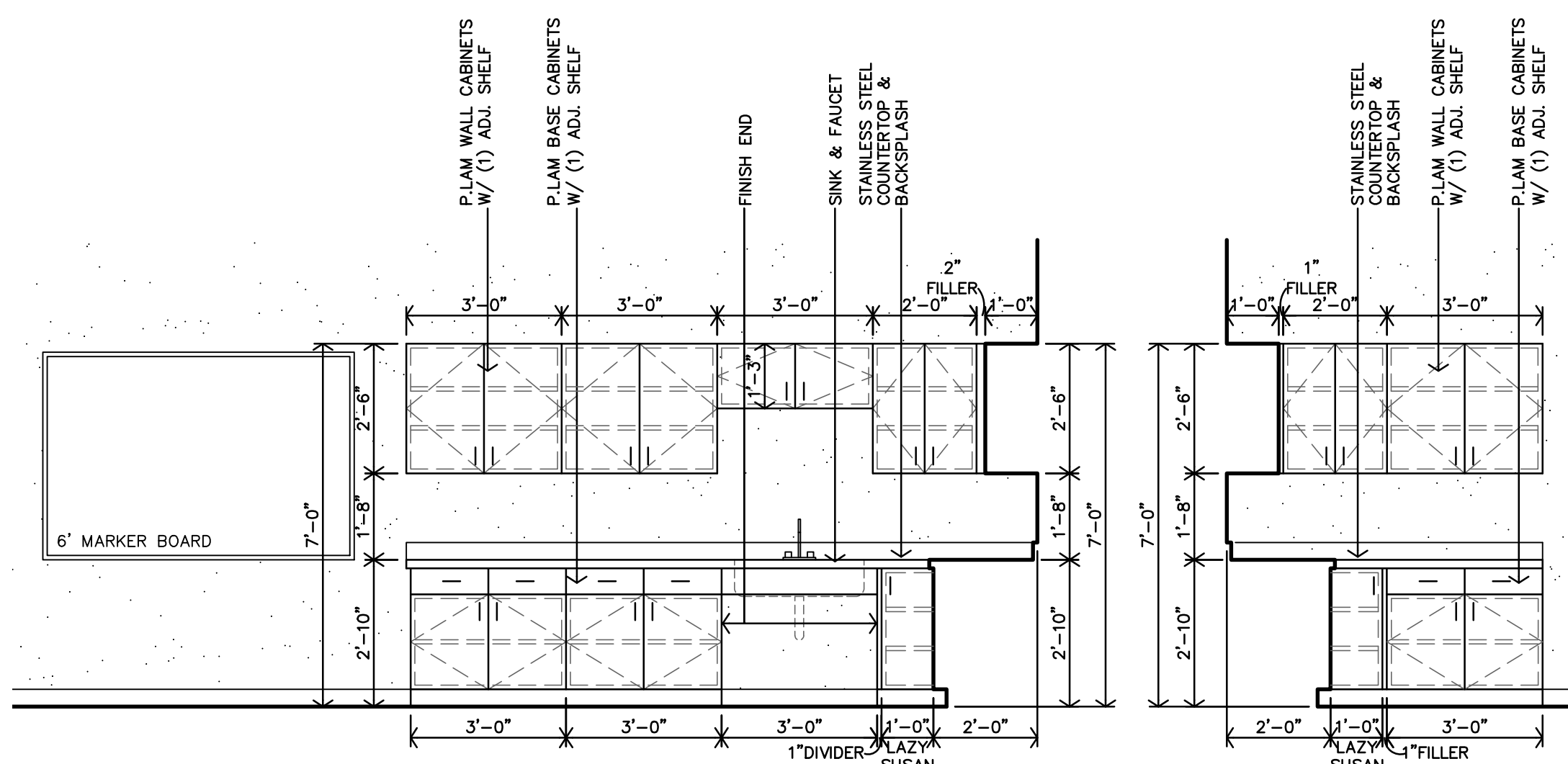
H VO-AG #101 CASEWORK ELEVATION
1/4"=1'-0"



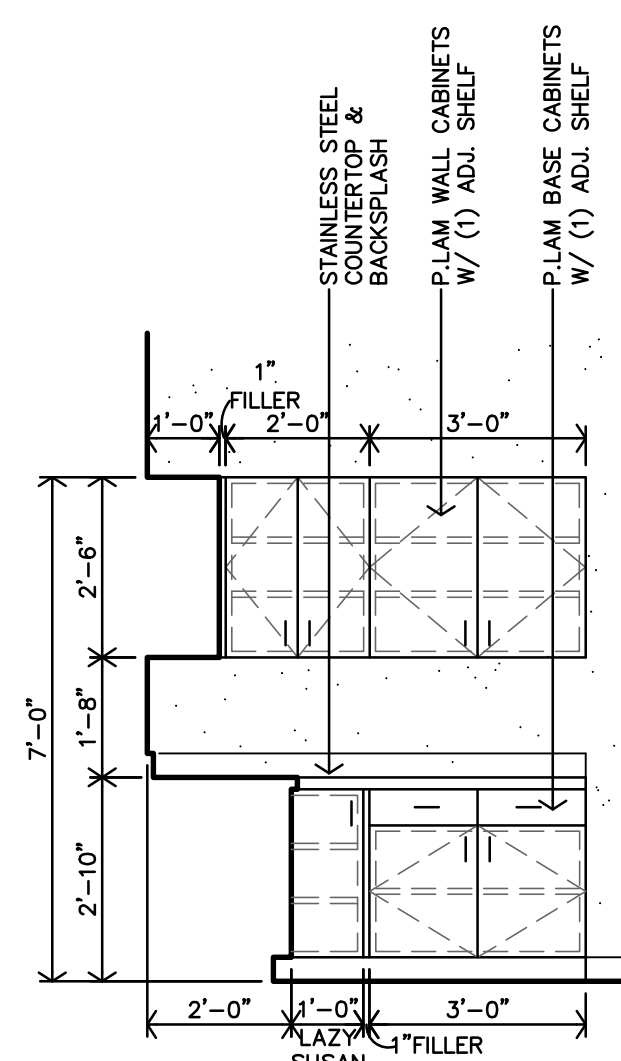
G VO-AG #101 CASEWORK ELEVATION
1/4"=1'-0"



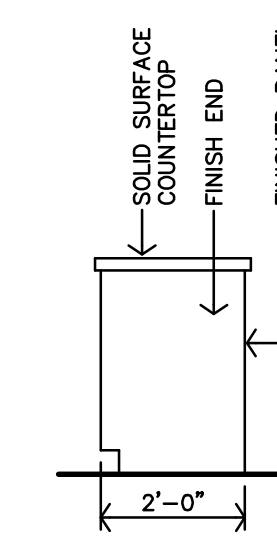
F CLASSROOMS #101/108 CASEWORK ELEVATION
1/4"=1'-0"



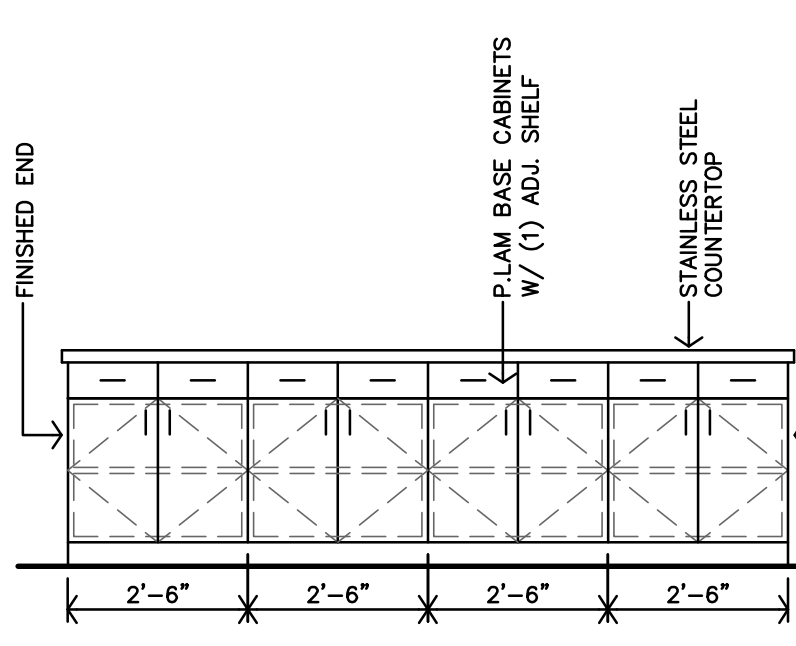
E CLASSROOM #108 CASEWORK ELEVATION
1/4"=1'-0"



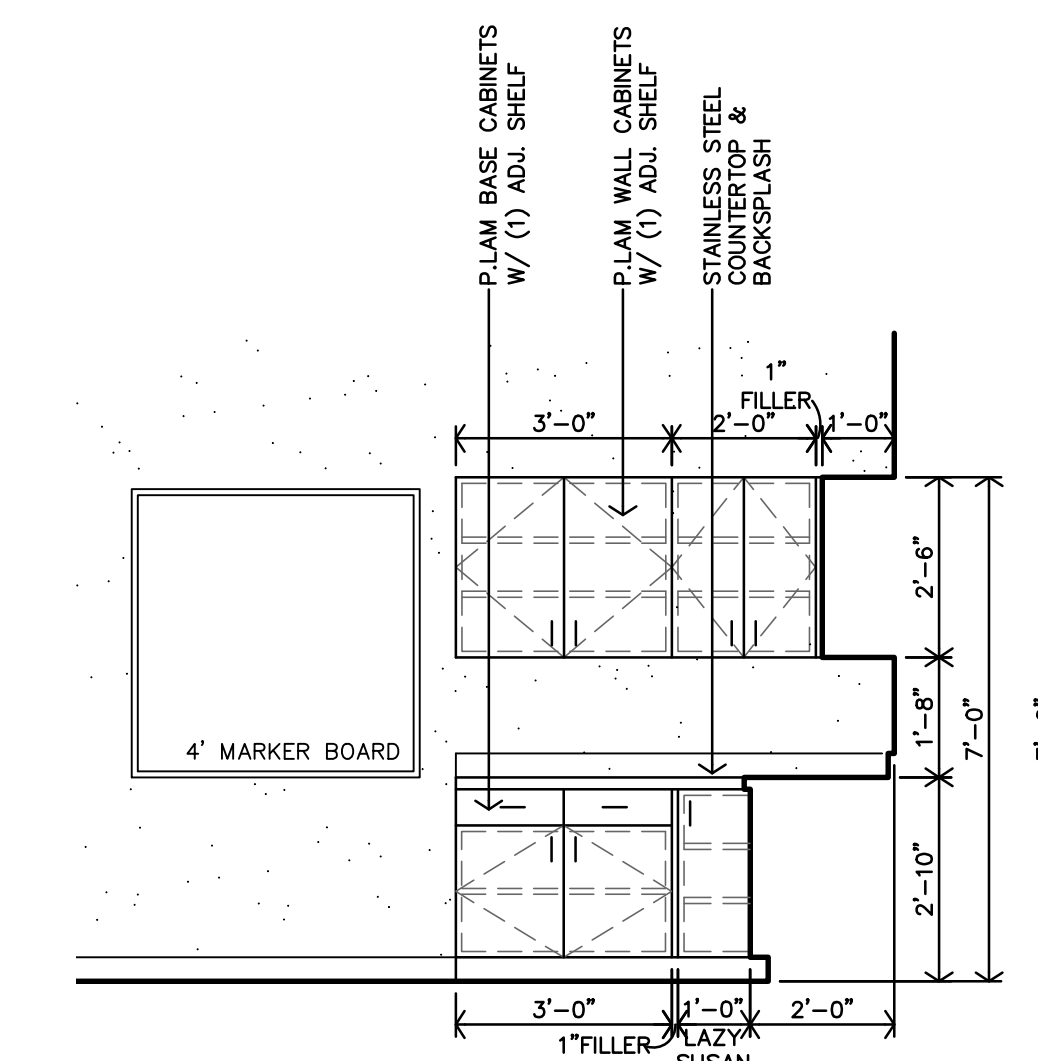
D CLASSROOM #108 CASEWORK ELEVATION
1/4"=1'-0"



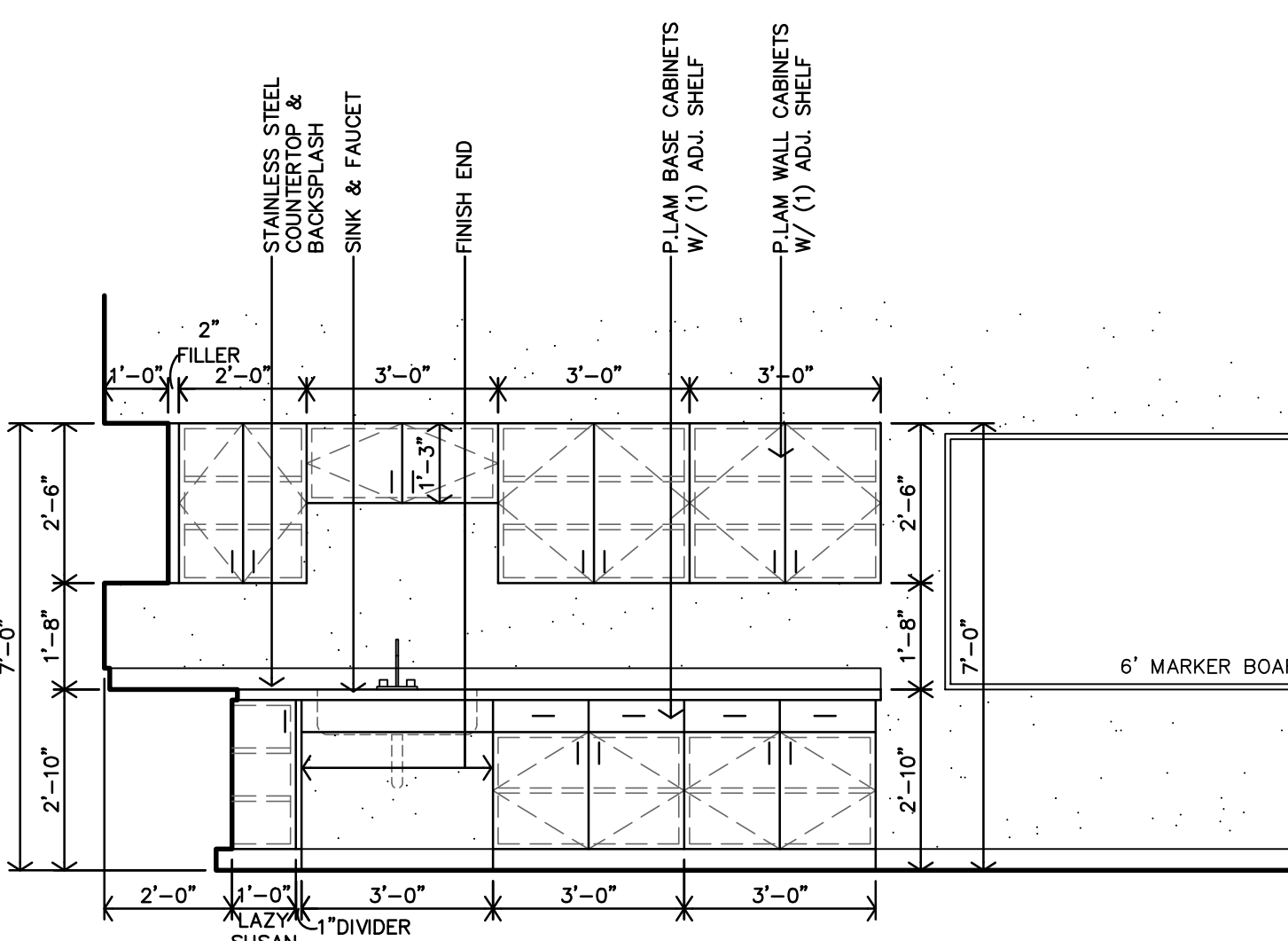
C CLASSROOM #102/108 ISLAND CASEWORK ELEVATIONS
1/4"=1'-0"

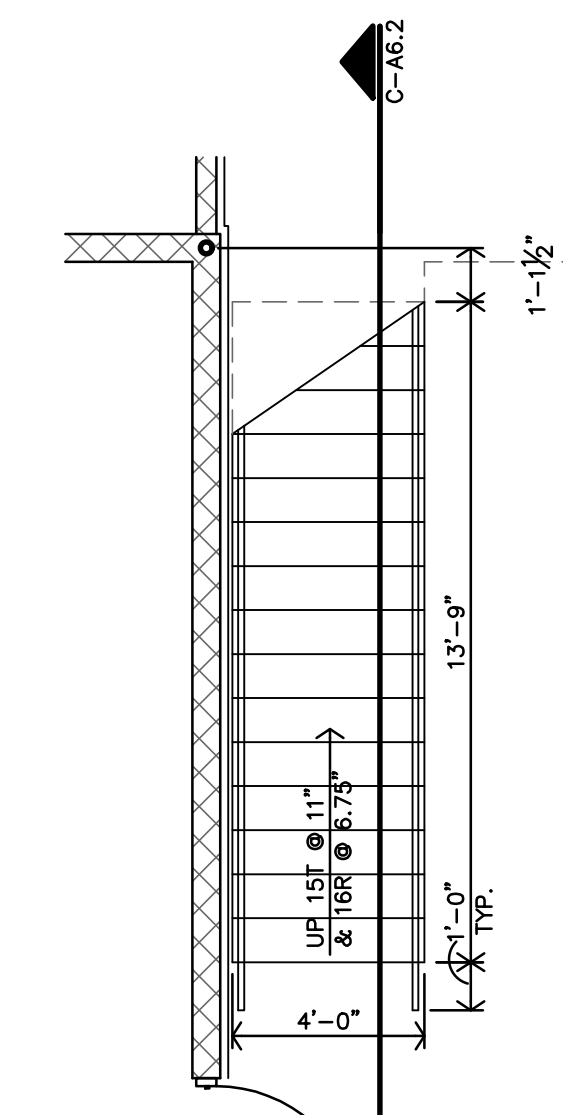
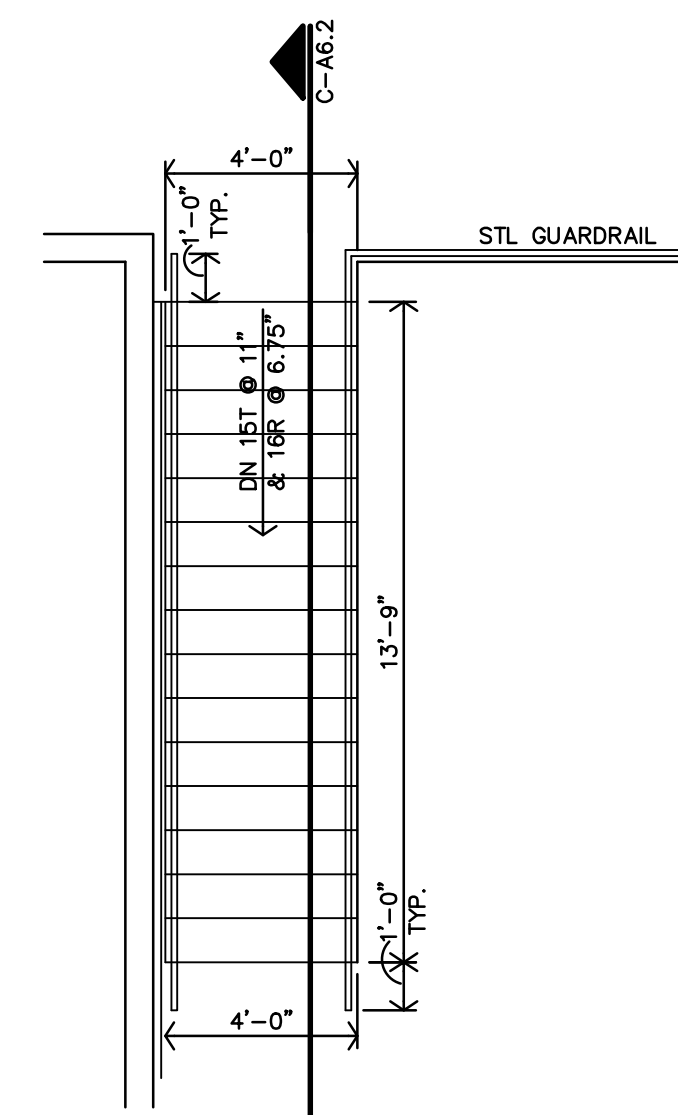
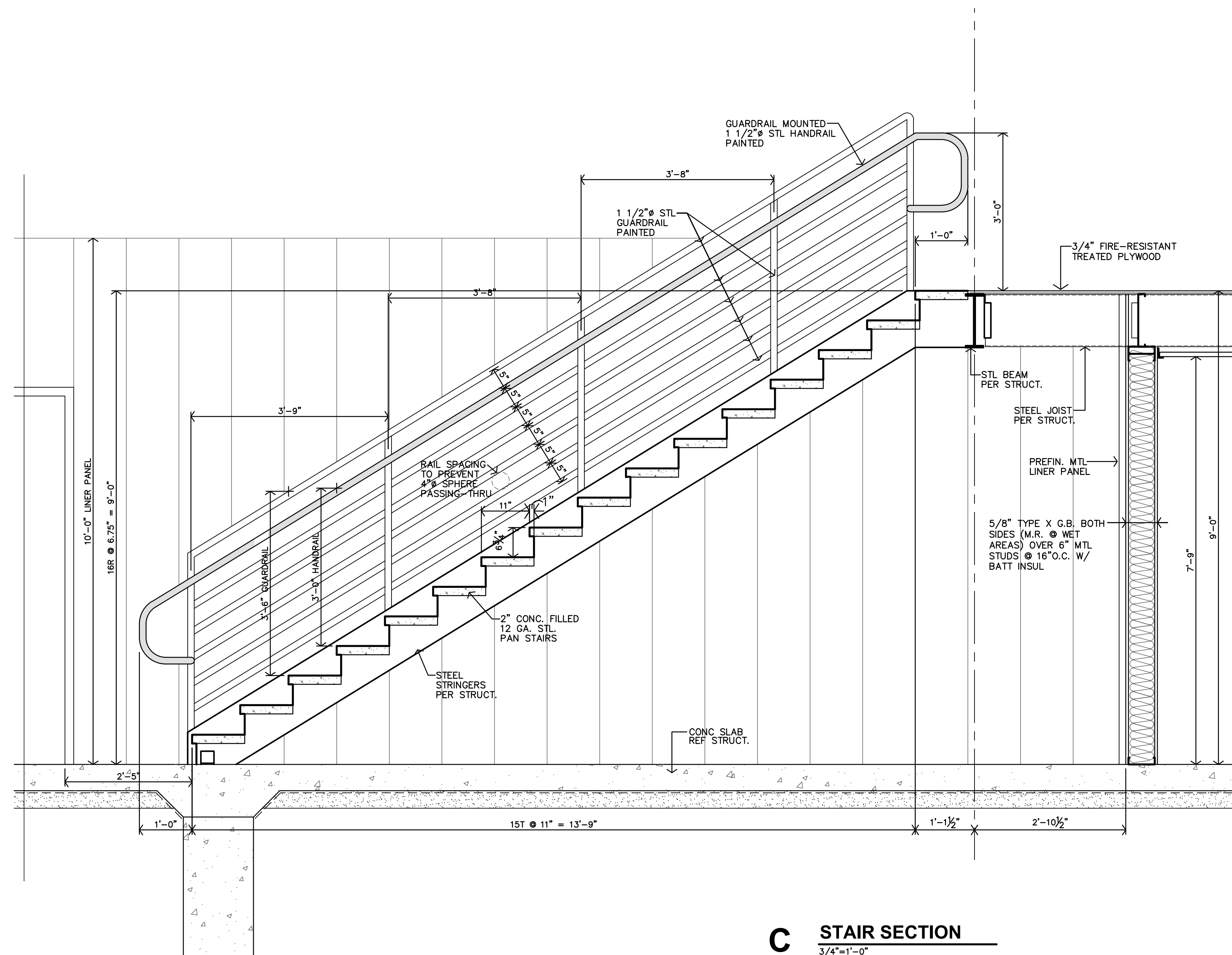


B CLASSROOM #102 CASEWORK ELEVATION
1/4"=1'-0"



A CLASSROOM #102 CASEWORK ELEVATION
1/4"=1'-0"





GLAZING SCHEDULE				
MARK	EXTERIOR/INSUL	1"	TINTED	TEMPERED
A1	●	●	●	●
A2	●	●	●	●

REFERENCE WINDOW ELEVATIONS FOR FIRE RATED GLAZING AND INTEGRAL BLIND LOCATIONS.

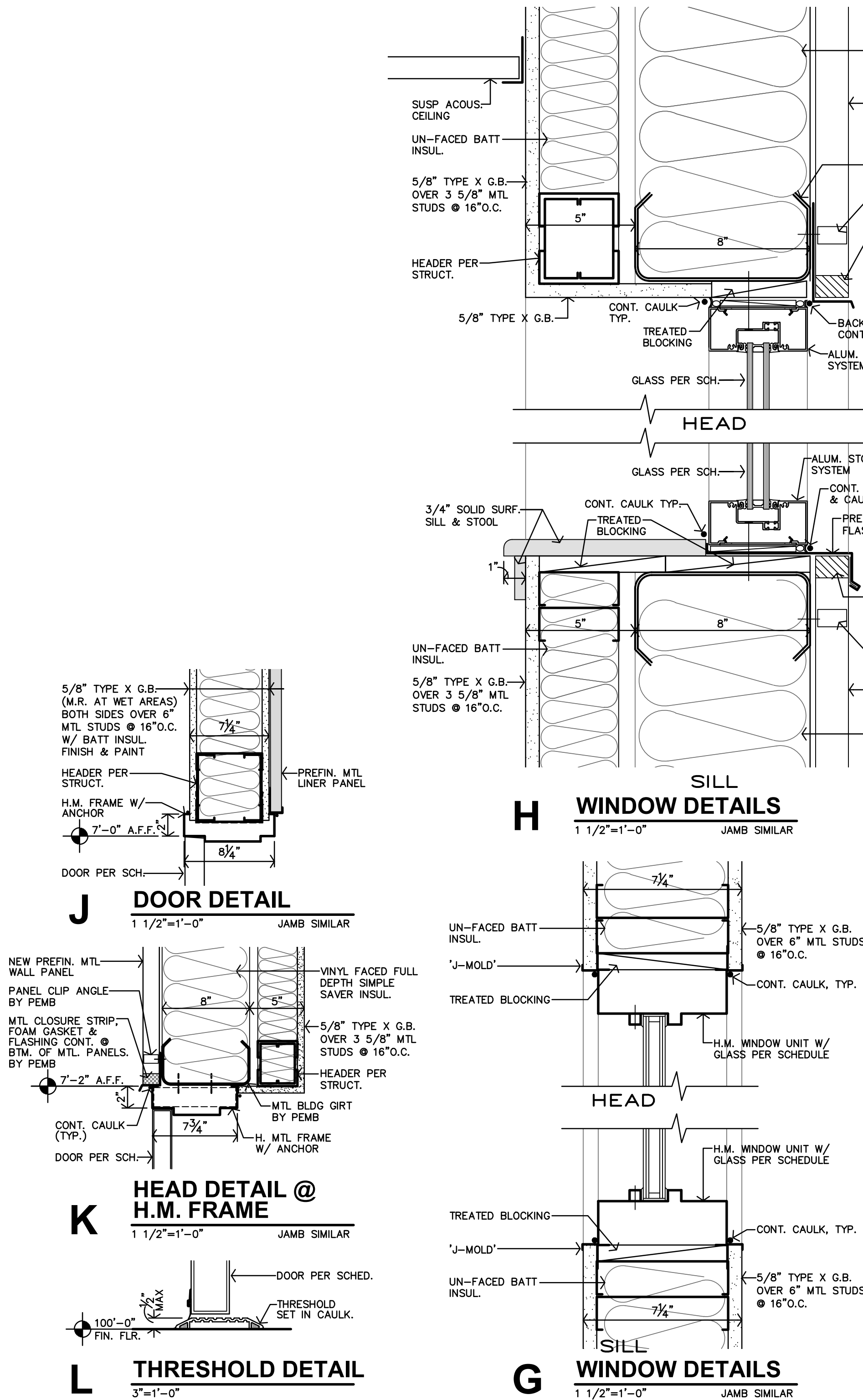
WINDOW SCHEDULE						
MARK	WIDTH	HEIGHT	STYLE	RATED	QUANTITY	DETAILS
A	4'-0"	3'-8"	ALUMINUM WINDOW		4	H-A7.1
B	6'-0"	3'-8"	H.M. WINDOW	45min	2	G-A7.1
C	9'-0"	3'-8"	H.M. WINDOW	45min	1	G-A7.1

NOTES:
A. CONTRACTOR MUST INSTALL MTL. FLASHINGS & CONT. CAULK FOR WEATHER & WATERTIGHT CONDITIONS @ ALL EXTERIOR WINDOW UNITS.
B. CONTRACTOR MUST INSTALL 1/4" INSUL. OR THERMAL BREAK, CONTINUOUS AROUND WINDOW.
C. CONTRACTOR TO PROVIDE & INSTALL MFR'S COORDINATING PANNING SYSTEM FOR ALUM. WINDOWS.
D. INSTALL 1/2" SOLID SURF. SILL AT ALL WINDOWS.
E. REFERENCE WINDOW ELEVATIONS FOR FIRE RATED GLAZING AND INTEGRAL BLIND LOCATIONS.

INTERIOR FINISH SCHEDULE												
FINISHES & INSTRUCTIONS												
P1 LATEX ENAMEL		SC SEALED CONCRETE			RB RUBBER COVE BASE			FP FIBERGLAS REINF. PANEL				
P2 EPOXY PAINT		ER EPOXY RESIN			LV LUXURY VINYL TILE							
NO.	DESCRIPTION	FLOOR	BASE		N.WALL	E.WALL	S.WALL	W.WALL	CEILING	REMARKS		
		SEALED CONC.	EPOXY RESIN LV RUBBER BASE FIBERGLASS NONE	5/8" FIRE RATED G.B. MTL LINER PANEL	5/8" FIRE RATED G.B. MTL LINER PANEL	5/8" FIRE RATED G.B. MTL LINER PANEL	5/8" FIRE RATED G.B. MTL LINER PANEL	SUSP. C.G. STRUCTURE EXPOSED				
MAIN LEVEL												
101	VO-AG	SC			●	●	●	●	●	●	●	
102	AG SCIENCE CLASSROOM	SC		RB	P1	P1	P1	P1	P1		●	
103	STORAGE	SC			P1	P1	P1	P1	P1		●	
104	TOILET	EP	EP		FP	FP	FP	FP	FP		●	
105	HALL	SC			●	●	●	●	●	●	●	
106	TOILET	EP	EP		FP	FP	FP	FP	FP		●	
107	LOCKER ROOM	SC		RB	FP	FP	FP	FP	FP		●	
108	INDUSTRIAL CLASSROOM	SC		RB	P1	P1	P1	P1	P1		●	
MEZZANINE												
201	EQUIPMENT MEZZANINE		LV	RB		●	●	P1			●	
202	STORAGE MEZZANINE		LV	RB		●	P1	P1			●	
GENERAL NOTES:										SPECIFIC NOTES:		
A. INSTALL VINYL, RUBBER, OR ALUMINUM TRANSITION STRIP BETWEEN FLOOR MATERIAL OF DIFFERING HEIGHTS, INCLUDING BUT NOT LIMITED TO CONCRETE/JOIST TRANSITIONS.										1.		
B. ALL GYPSUM BOARD AREAS WHICH ARE ACCESSORIES TO THE ROOM INCLUDING BUT NOT LIMITED TO SOFFITS, BULKHEADS, TRIM, ETC. SHALL BE PAINTED REGARDLESS OF WHETHER IT IS SPECIFICALLY INDICATED PER SCHEDULE.												
C. ALL G.B. WALLS & PERMANENT PARTITIONS SHALL RECEIVE RUBBER BASE UNLESS NOTED OTHERWISE.												
D. WALL TYPE SHOWN FOR GENERAL INFORMATION ONLY. CONTRACTOR SHALL COORDINATE WALL MATERIAL W/ DRAWINGS AND FIELD CONDITIONS. ALL AREAS INDICATED TO RECEIVE NEW FINISH SHALL RECEIVE COMPLETE FINISH AS SCHEDULED AT ENTIRE ROOM. CONTRACTOR SHALL												
COORDINATE FINISHES AND ACCESSITS WITH DETAILS AND INTERIOR ELEVATIONS.												
E. FLOORING CONTRACTOR SHALL VERIFY THAT SUBFLOOR IS LEVEL AND PROPERLY PREPPED PRIOR TO INSTALLATION OF ANY FLOORING MATERIALS.												
F. CONTRACTOR SHALL VERIFY THAT FLOORS ARE "PREPPED"/"FLOORSTONED" FOR LEVEL TRANSITION BETWEEN DIFFERING MATERIALS.												
G. ALL CONTROL JOINTS AT EXPOSED CONCRETE FLOORS SHALL RECEIVE SEALANT COMPATIBLE W/ FLOOR SEALER.												
H. CONTRACTOR SHALL COORDINATE W/ INTERIOR ELEVATIONS, FLOOR PLANS AND MISCELLANEOUS DETAILS TO VERIFY ALL AESTHETIC ACCENTS AND DETAILS.												

DOOR SCHEDULE														
MARK	DOOR						FRAME			RATED	DETAIL	REMARKS		
	SIZE			MAT'L	TYPE	FINISH	MAT'L	TYPE	FINISH					
	W	H	T											
101	3'-0"	7'-0"	1 3/4"	●	A	●	●	●	1	●		K/L-A7.1		
102	12'-0"	12'-0"		●	C	●	●	●				A-A4.1		
103	12'-0"	12'-0"		●	C	●	●	●				A-A4.1		
104	3'-0"	7'-0"	1 3/4"	●	A	●	●	●	1	●		K/L-A7.1		
105	3'-0"	7'-0"	1 3/4"	●	A	●	●	●			45min	J-A7.1		
106	3'-0"	7'-0"	1 3/4"	●	A	●	●	●	1	●	45min	J-A7.1		
107	3'-0"	7'-0"	1 3/4"	●	A	●	●	●	1	●		K/L-A7.1		
108	3'-0"	7'-0"	1 3/4"	●	B	●	●	●	1	●		K/L-A7.1sim		
109	3'-0"	7'-0"	1 3/4"	●	B	●	●	●	1	●		J-A7.1		
110	4'-0"	7'-0"	1 3/4"	●	A	●	●	●	1	●		J-A7.1		
111	3'-0"	7'-0"	1 3/4"	●	A	●	●	●	1	●		K/L-A7.1sim		
112	12'-0"	12'-0"		●	C	●	●	●				A-A4.1		
113	3'-0"	7'-0"	1 3/4"	●	B	●	●	●	1	●		K/L-A7.1		
114	3'-0"	7'-0"	1 3/4"	●	B	●	●	●	1	●		J-A7.1		
115	4'-0"	7'-0"	1 3/4"	●	A	●	●	●	1	●		J-A7.1		
116	3'-0"	7'-0"	1 3/4"	●	A	●	●	●	1	●		K/L-A7.1		
117	3'-0"	7'-0"	1 3/4"	●	A	●	●	●	1	●	45min	J-A7.1		
118	5'-0"	4'-2"		●	D	●	●	●				N-A6.1		
119	NOT USED													
120	3'-0"	7'-0"	1 3/4"	●	A	●	●	●	1	●	45min	J-A7.1		

NOTES:
A. ALL EXPOSED LINTELS TO BE PAINTED AT INTERIOR AND EXTERIOR.
B. CONTRACTOR MUST INSTALL MTL. FLASHINGS & CAULK FOR A WEATHER & WATERTIGHT CONDITIONS @ ALL EXTERIOR DOORS & DOOR FRAMES/UNITS.
C. H.M. DOOR & FRAME TO BE PAINTED W/ INDUSTRIAL ENAMEL UNLESS NOTED OTHERWISE. SAND SMOOTH PRIOR TO PAINTING. SPRAY FINISH ONLY. NO BRUSH FINISH.



GENERAL NOTES - STRUCTURAL

1. General Information

- A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
- B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record for review prior to cutting/cutting. Conflicts, inconsistencies, or difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.
- C. All design and construction work for this project shall conform to the requirements of the 2018 International Building Code, as amended by the city of Galva, Kansas.
- D. These drawings are for this specific project and no other use is authorized.

2. Pre-Engineered Metal Building Design Criteria

- A. Design of metal building frame and components shall comply with the 2018 International Building Code with the following minimums:
1. Roof Live Load = 20 psf
 2. Snow Load = 15.4 psf + drift
 3. Wind V = 114 mph, Exposure C, $I_w = 1.0$
 4. Seismic: $S_s = 0.074g$, $S_1 = 0.05g$
- Site Classification = D
- Seismic Design Category = B
5. Maximum allowable lateral drift = $H/480$
- B. Provide column base reactions (vertical, horizontal and uplift) to project structural engineer for verification of footing design and anchor bolt lengths prior to fabrication of foundation materials and construction.
- C. Shop drawings showing complete erection and fabrication details, as well as calculations shall be submitted to the project architect/engineer for review prior to fabrication and/or erection. Such drawings shall also be submitted to local government controlling agencies for permitting when requested by that agency.

3. Concrete

- A. All concrete for foundations (grade beams and footings) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
- B. All concrete for interior flatwork (Without Floor Covering) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C151 (air drying method only).
- C. All concrete for interior flatwork (With Floor Covering) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 540 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.40 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C151 (air drying method only).
- D. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
- E. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
- F. All interior concrete slabs on grade shall be placed over 15 mil. Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
- G. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
- H. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1/2 to 1.
- I. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
- J. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
- K. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel

- A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
- B. Clear coverage of concrete over reinforcing steel shall be as follows:
1. Concrete placed against earth: 2"
 2. Formed concrete against earth: 1"
 3. Slabs: 1-1/2"
 4. Beams or Columns: 2"
 5. Other
- C. All coverage shall be nominal bar diameter minimum.
- D. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
- E. At corners of all walls, beams, and grade beams supply corner bars (minimum 2"-Ø in each direction for 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
- F. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2"-Ø minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
- G. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus #6 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively.
- H. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number T12 by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
- I. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
- J. Allow 1/2 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

5. Structural Steel

- A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow structural Sections (HSS) shall be ASTM A500, grade C. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
- B. All welding shall conform to the recommendations of the AWS.
- C. All exterior steel shall be hot-dip galvanized.

6. Post Installed Anchors

- A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post installed anchor. The contractor shall coordinate an on-site meeting with the post installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements.
- B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 308.2 and ICC-ES AC108. All anchors shall be installed per the anchor manufacturer's written instructions.
- C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
- D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions.
- E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC08. All anchors shall be installed per the anchor manufacturer's written instructions.
- F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

7. Foundations

- A. The soil investigation was not yet prepared for this project.
- B. Spread footings and grade beams are designed to bear on engineered fill or undisturbed soil capable of safely resisting 1500 psf.
- C. Contractor shall provide for dewatering at excavations from either surface water or seepage.
- D. Retaining walls are designed for an active lateral load of 34pcf equivalent fluid pressure and an at-rest pressure of 54pcf based on backfilling with a granular material.
- E. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
- F. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on ground are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

8. Shop Drawing Review

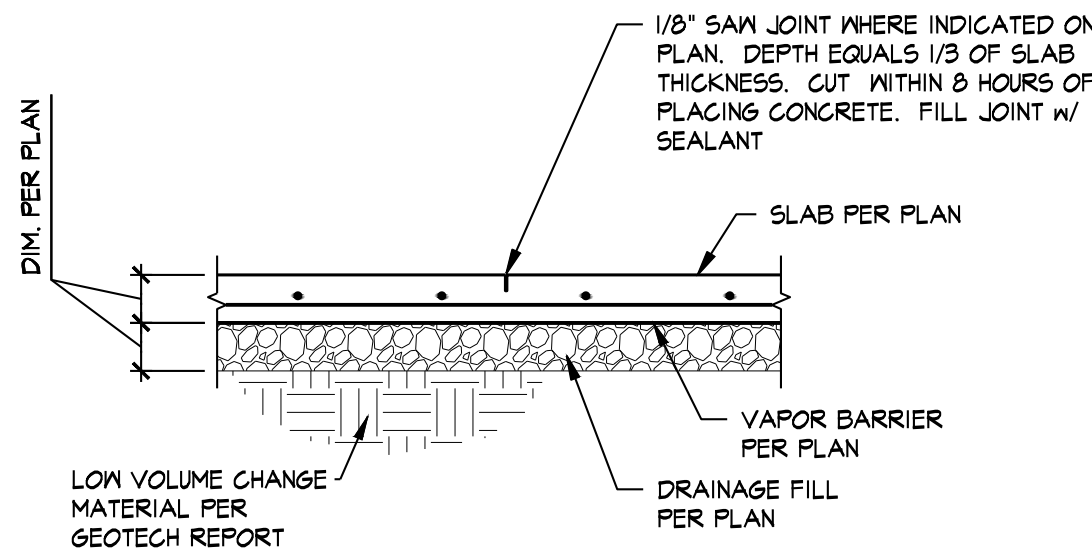
- A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
- B. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
1. Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
 2. Review and approve each submission.
 3. Stamp each submission as approved.
- C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
- D. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.
- E. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
1. Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
 2. Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
 3. Construction and control joint plans and/or elevations.
 4. Deferred Submittal: Pre-engineered building shop drawing showing complete erection & fabrication details as well as calculations including column reactions.

9. Statement of Structural Special Inspections

- A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
- B. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
1. Shop Fabrication- structural steel per Section 1704.2.5 unless AISC certified.
 2. Steel Construction per Section 1705.2 and the quality assurance requirements of AISC 341 Chapter J (as referenced by AISC 360)
 3. Cold-Formed Steel Deck per Section 1705.2.2 and the quality assurance requirements of SDI GA/GC.
 4. Concrete Construction per Section 1705.3 and Table 1705.3
 - a. Reinforcing Steel Placement
 - b. Reinforcing Steel Welding
 - c. Cast in Place Anchors
 - d. Post Installed Anchors
 - e. Design Mix Verification
 - f. Concrete Sampling and Testing
 - g. Concrete Placement
 - h. Concrete Curing
 - i. Formwork Shape, Location and Dimensions
 5. Verification of Soils per Table 1705.6
- C. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
- D. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
- E. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.

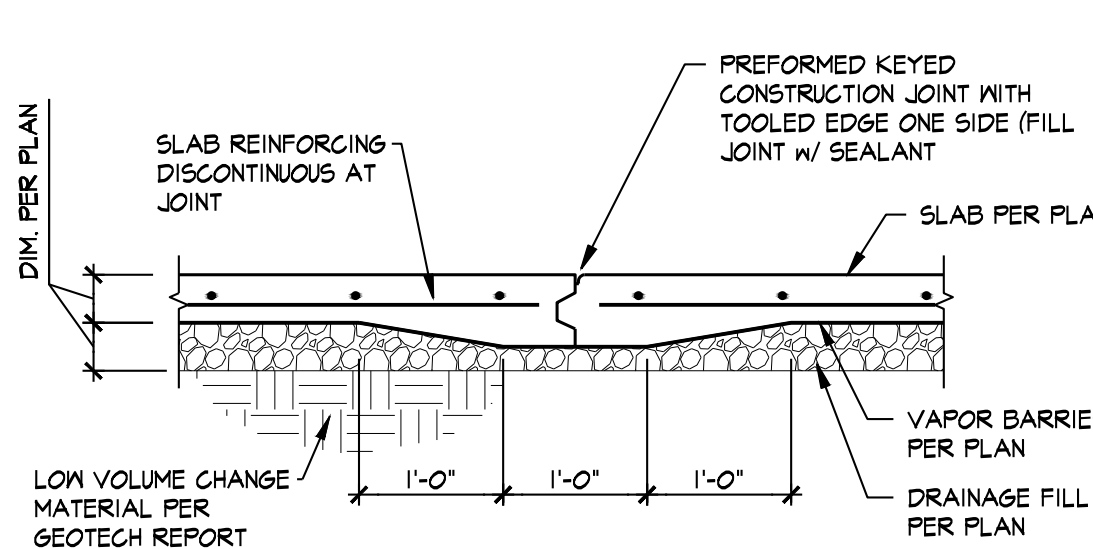
10. Copyright and Disclaimer

- A. All drawings in the structural set (5-series drawings) are the copyrighted work of Bob D. Campbell and Company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
- B. I, Christopher A. Beverlin, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of 5-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.



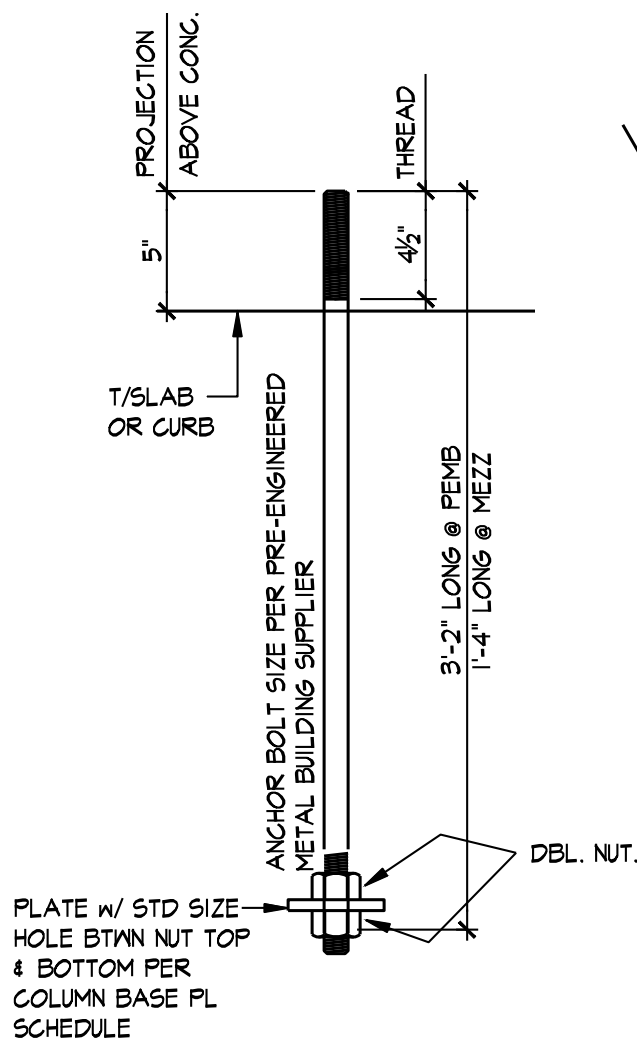
TYPICAL SAW JOINT NOTED "SJ" ON PLAN

SECTION 1
3/4" = 1'-0" SO.1



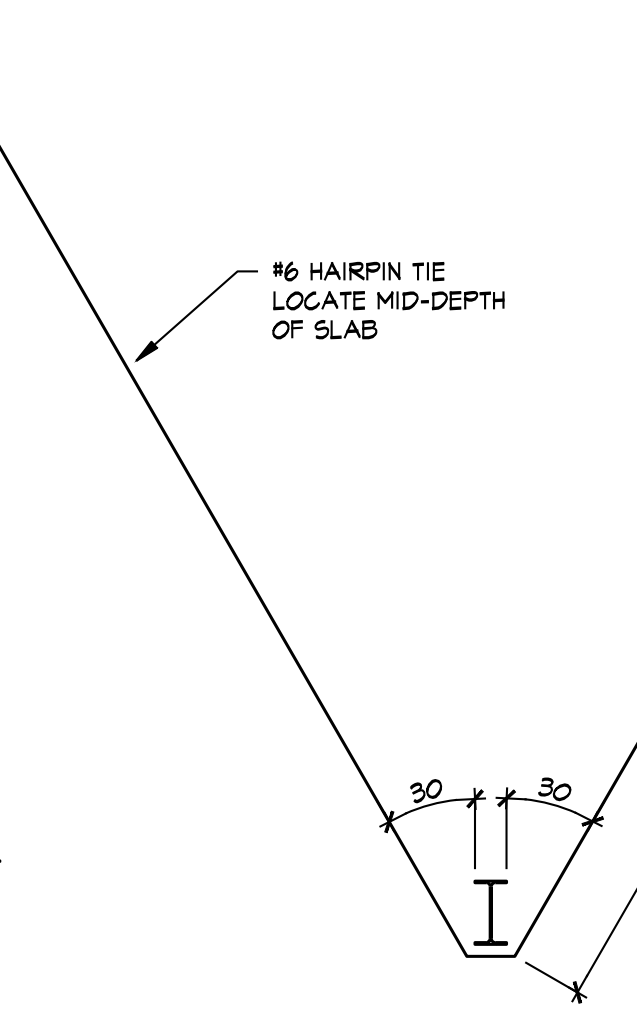
TYPICAL CONSTRUCTION JOINT NOTED "CJ" ON PLAN

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3/4" = 1'-0" SO.1

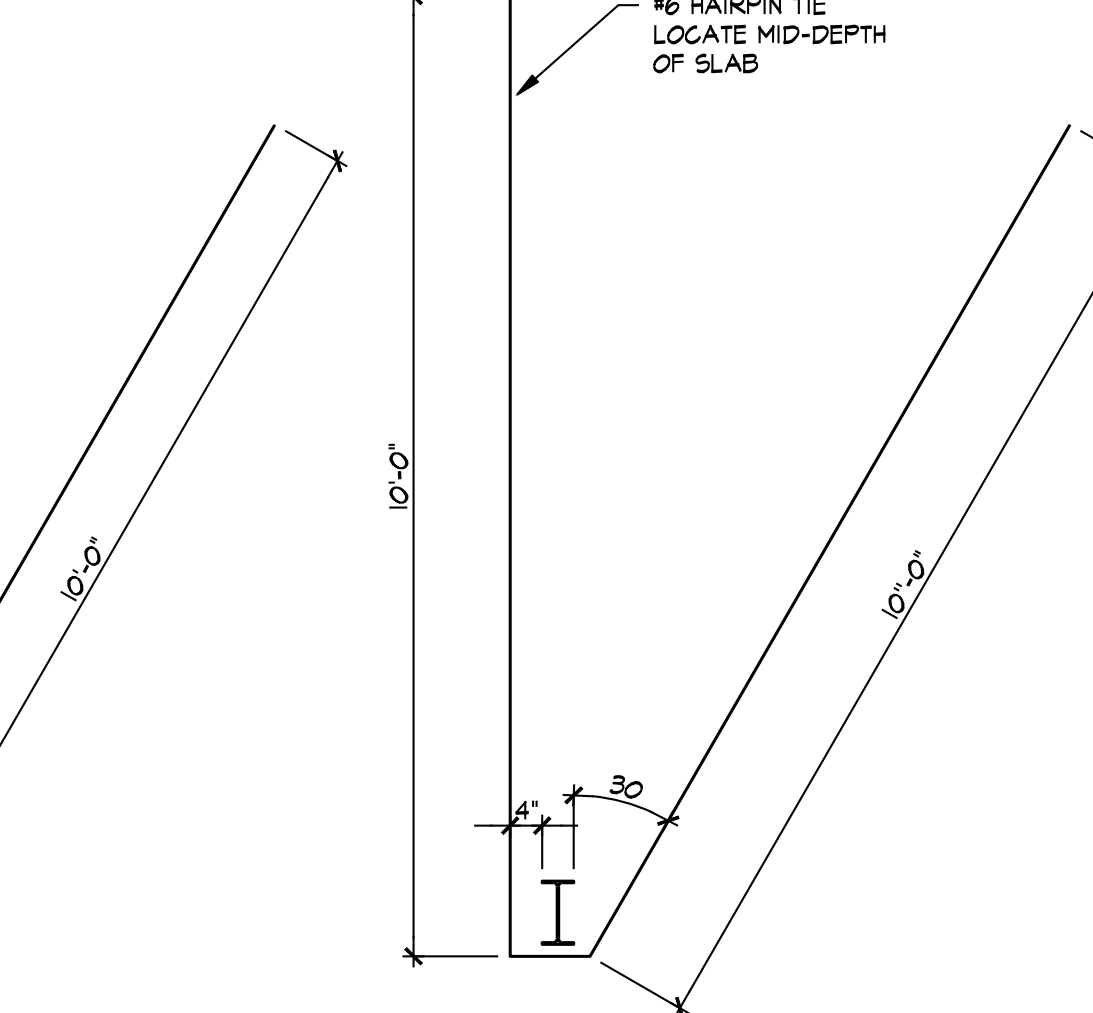


TYPICAL ANCHOR BOLT

SECTION 3
1/2" = 1'-0" SO.1



SECTION 4A
1/2" = 1'-0" SO.1

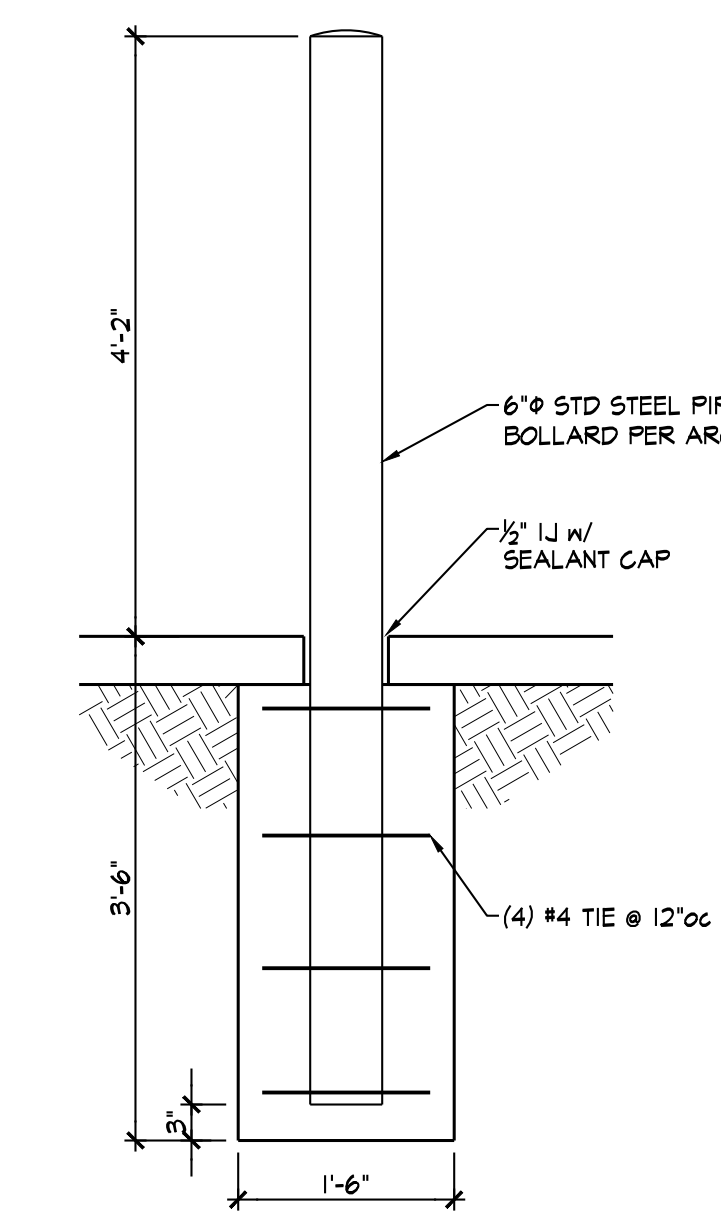


SECTION 4B
1/2" = 1'-0" SO.1

COLUMN BASE PLATE ANCHOR-ROD CRITERIA				
ANCHOR-ROD DIAMETER	MAX. HOLE DIAMETER	MIN. WASHER SIZE	MIN. WASHER THICKNESS	PLATE SIZE
1/2"	15/16"	2"	1/4"	1/2"x2 1/2"x2 1/2"
3/4"	1 5/16"	2"	1/4"	1/2"x2 1/2"x2 1/2"
1"	1 13/16"	3"	3/8"	5/8"x3"x3"
1 1/2"	2 3/8"	4"	1/2"	5/8"x3 1/2"x3 1/2"

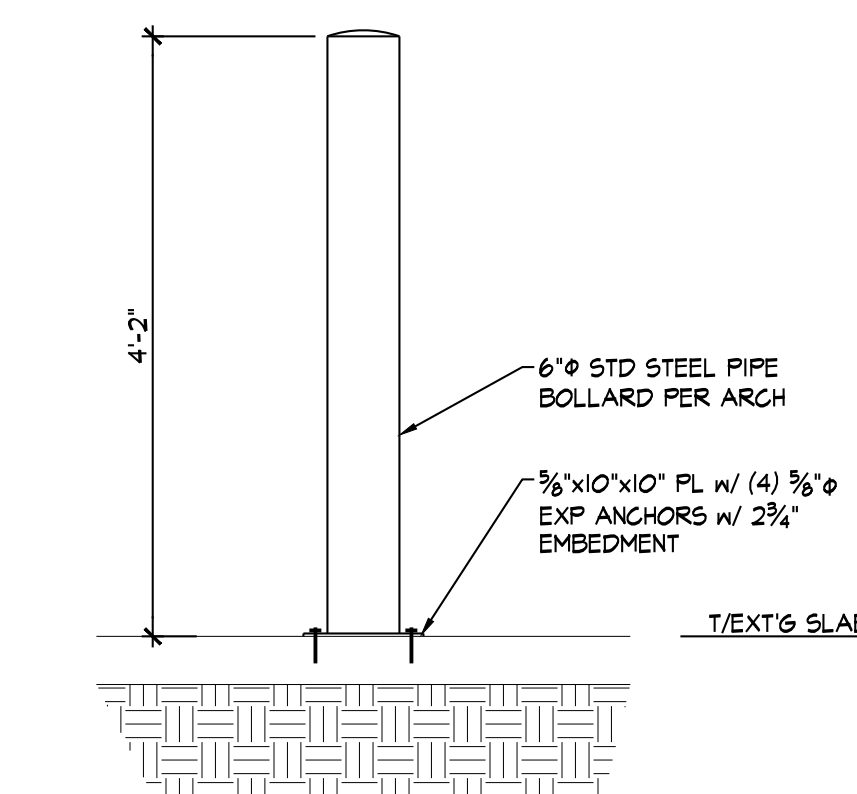
STRUCTURAL DECK & SLAB SCHEDULE	
MARK	DESCRIPTION
SOG-1	6" CONC. SLAB ATOP 15 MIL VAPOR BARRIER PER GENERAL NOTES ATOP 6" CLEAN GRANULAR FILL, ATOP 18" SUITABLE LVC SUBGRADE MATERIAL. REINF. SLAB WITH #4 @ 18" O.C. EACH WAY MID-DEPTH. LAP ALL BARS 24". T/S LAB EL. = VARIES W/ SLOPE, RE: SECTION DETAILS.
SOG-2	4" CONC. SLAB (4500psi, AIR-ENTRAINED) PER GENERAL NOTES ATOP 6" CLEAN GRANULAR FILL, ATOP 18" SUITABLE LVC SUBGRADE MATERIAL. REINF. SLAB WITH 6x6-W2.9xW2.9 WWF. T/S LAB EL. = 100'-0".
FD-1	3/4" FIRE-RESISTANT TREATED T&G STURD-I EXP 1 SHEATHING ATTACHED WITH #10 SCREENS @ 6" O.C. AT EDGES & @ 12" O.C. TO INTERMEDIATE FRAMING

- NOTES:
1. SOG = SLAB-ON-GRADE TYP.
 2. FD = FLOOR DECK TYP.



TYPICAL EMBEDDED BOLLARD

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



TYPICAL SURFACE APPLIED BOLLARD

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

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785.827.0386 jgr@jgarchitects.com

USD 419 CANTON - GALVA SCHOOLS
ELEMENTARY/MIDDLE SCHOOL
KANSAS
GALVA,



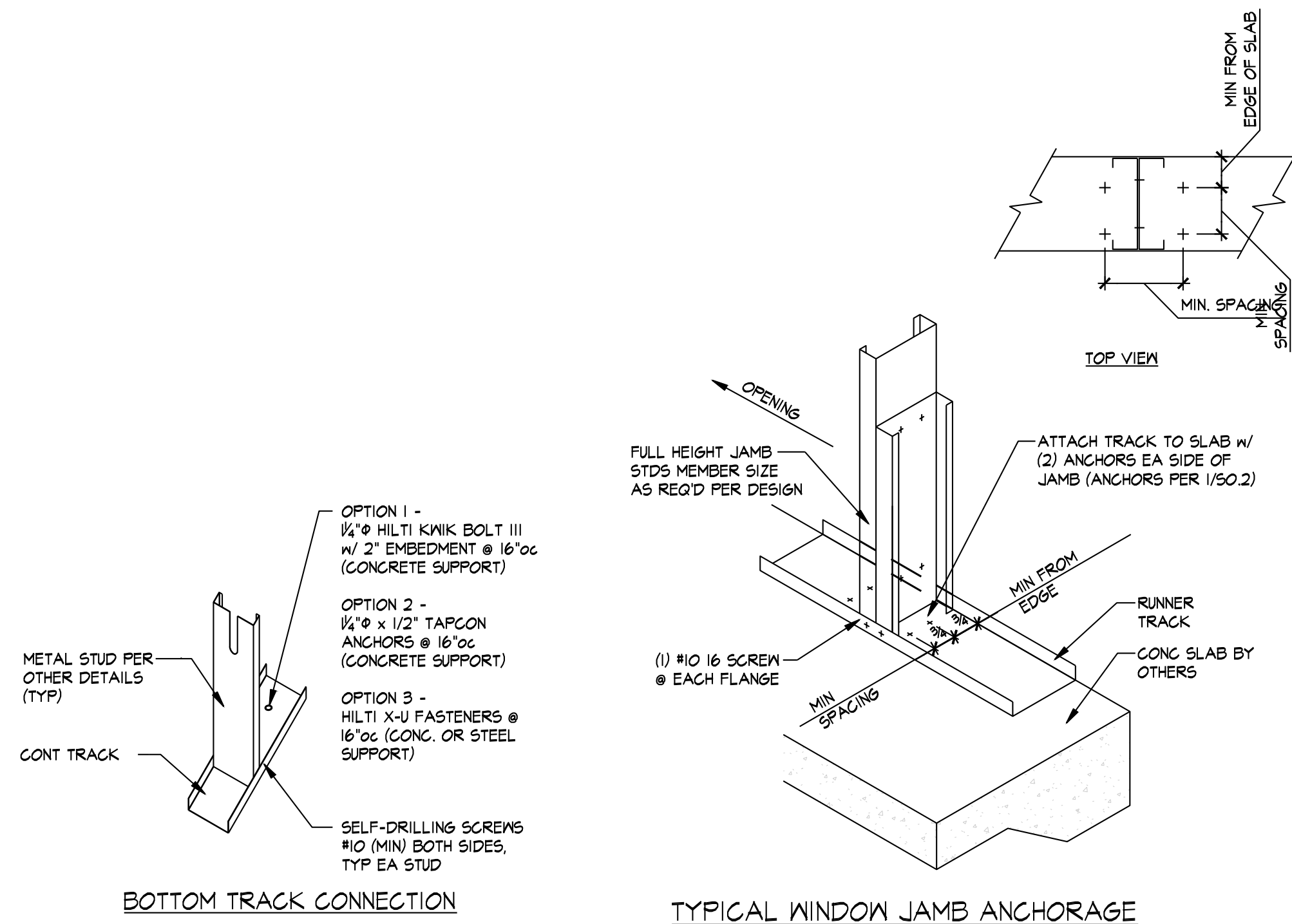
REVISION:

DATE:	10-16-2025
JOB:	24-45921
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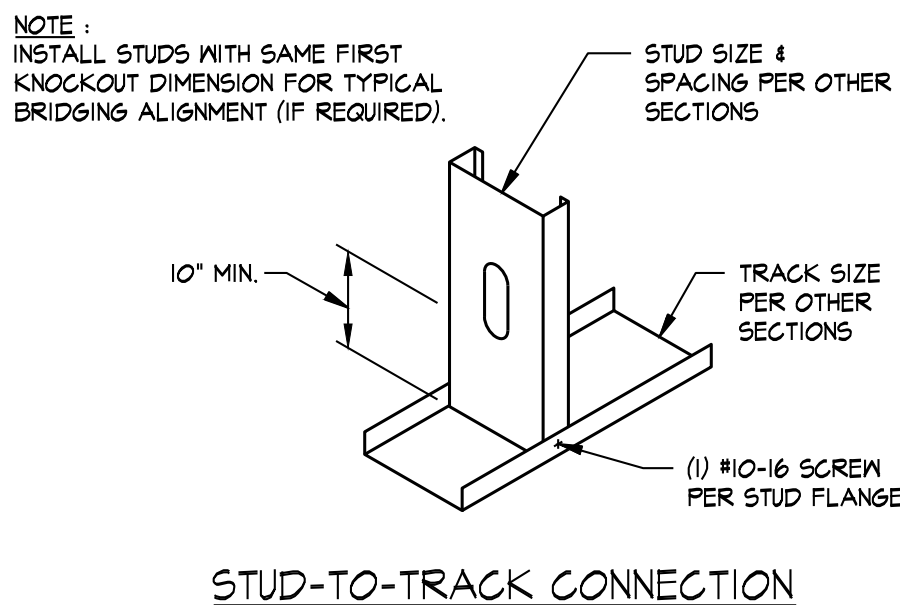
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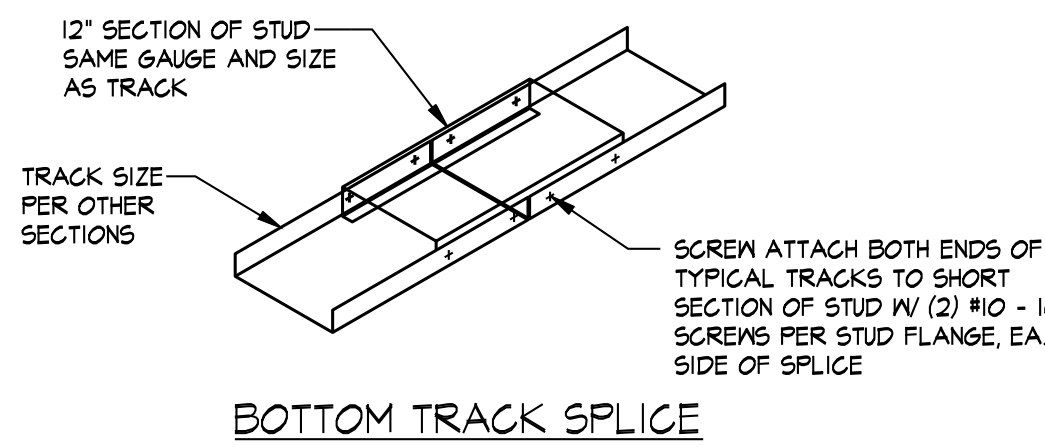


SECTION 1
3/4" = 1'-0" SO.2

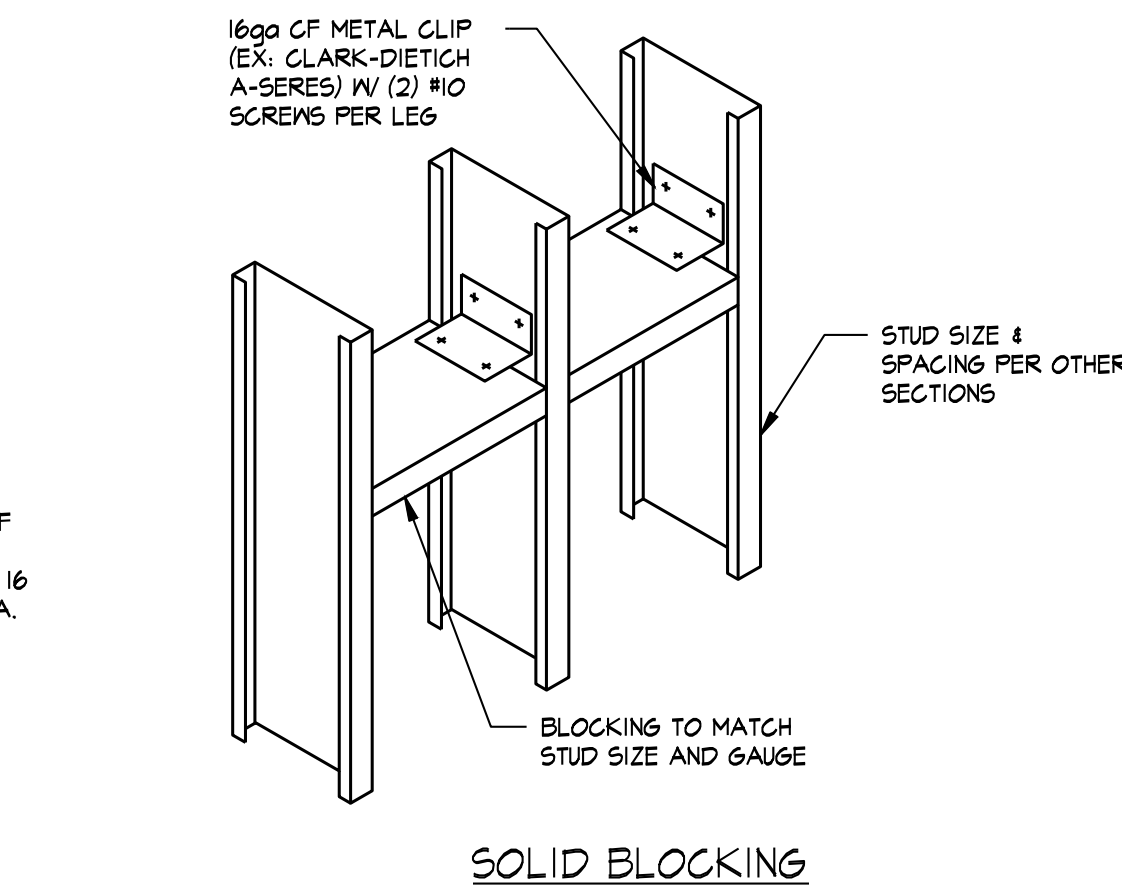
SECTION 2
3/4" = 1'-0" SO.2



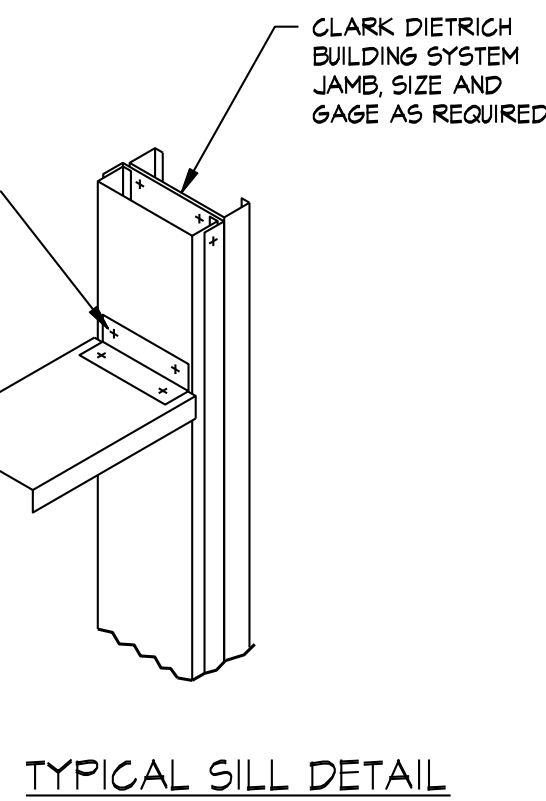
SECTION 6
3/4" = 1'-0" SO.2



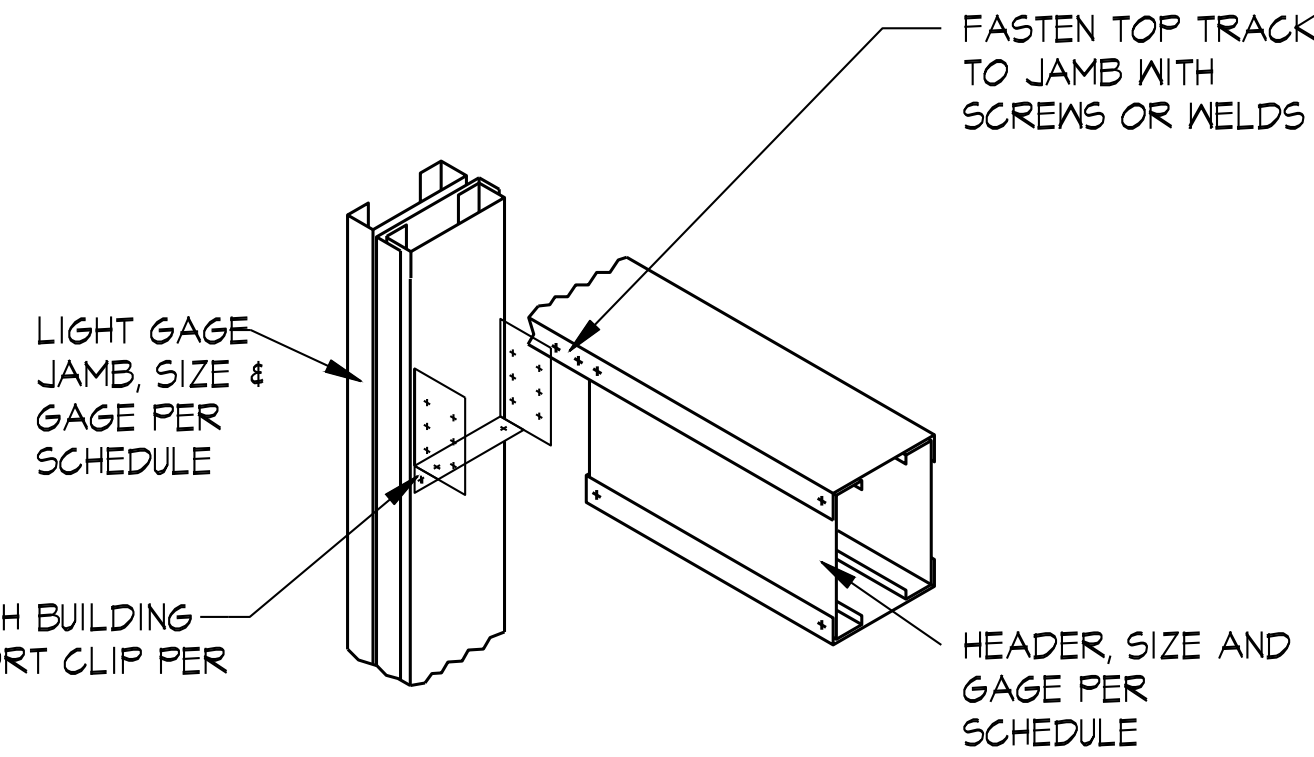
SECTION 7
3/4" = 1'-0" SO.2



SECTION 8
3/4" = 1'-0" SO.2

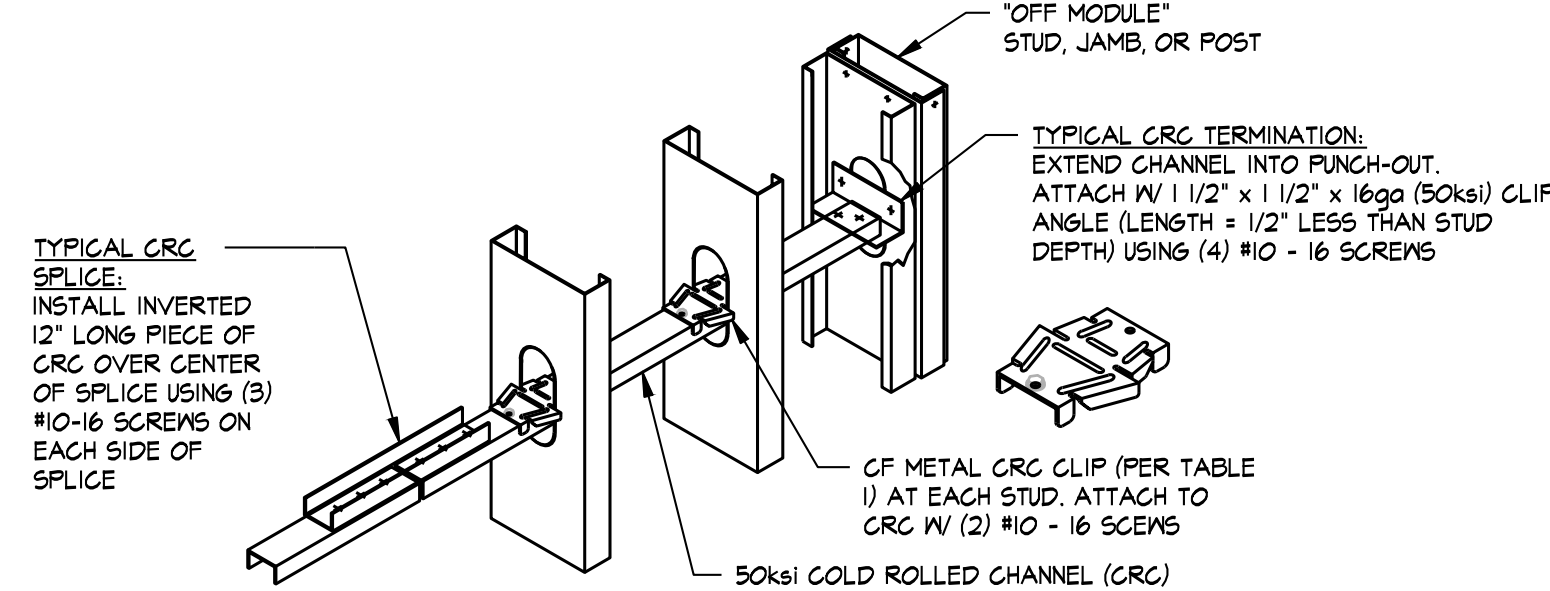


SECTION 4
3/4" = 1'-0" SO.2



SECTION 5
1/2" = 1'-0" SO.2

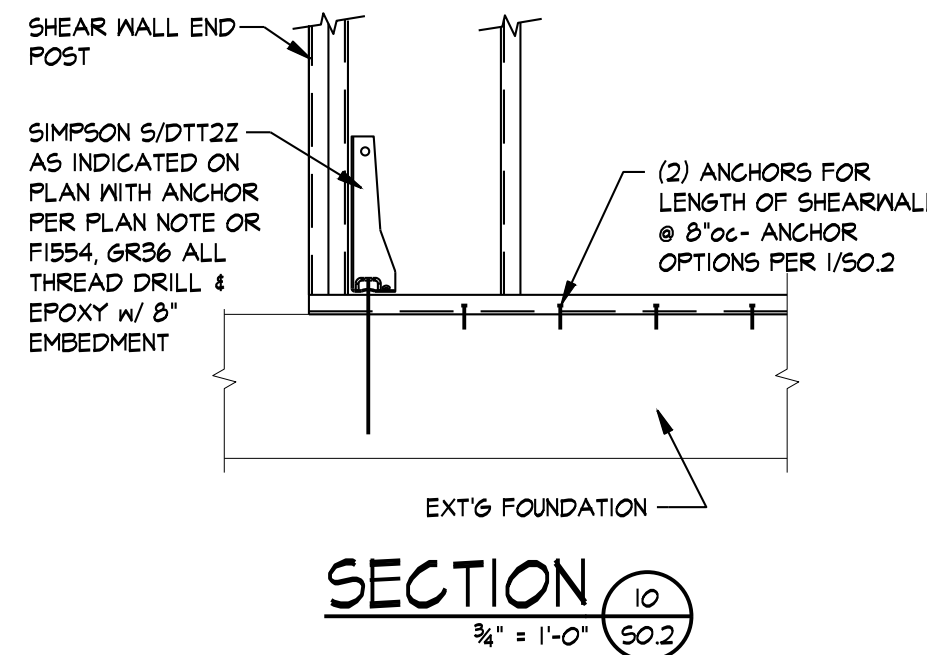
TABLE I	
STUD THICKNESS	CONNECTOR
33 - 43 MIL	18ga
54 - 91 MIL	14ga



THIS DETAIL IS NOT SUITABLE FOR WALL STUDS DEEPER THAN 6"

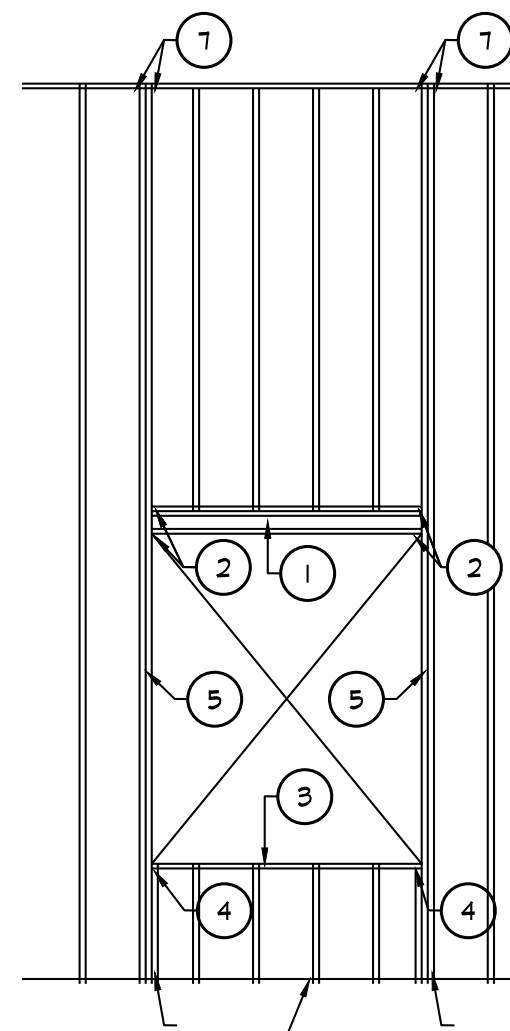
LATERAL BRACING

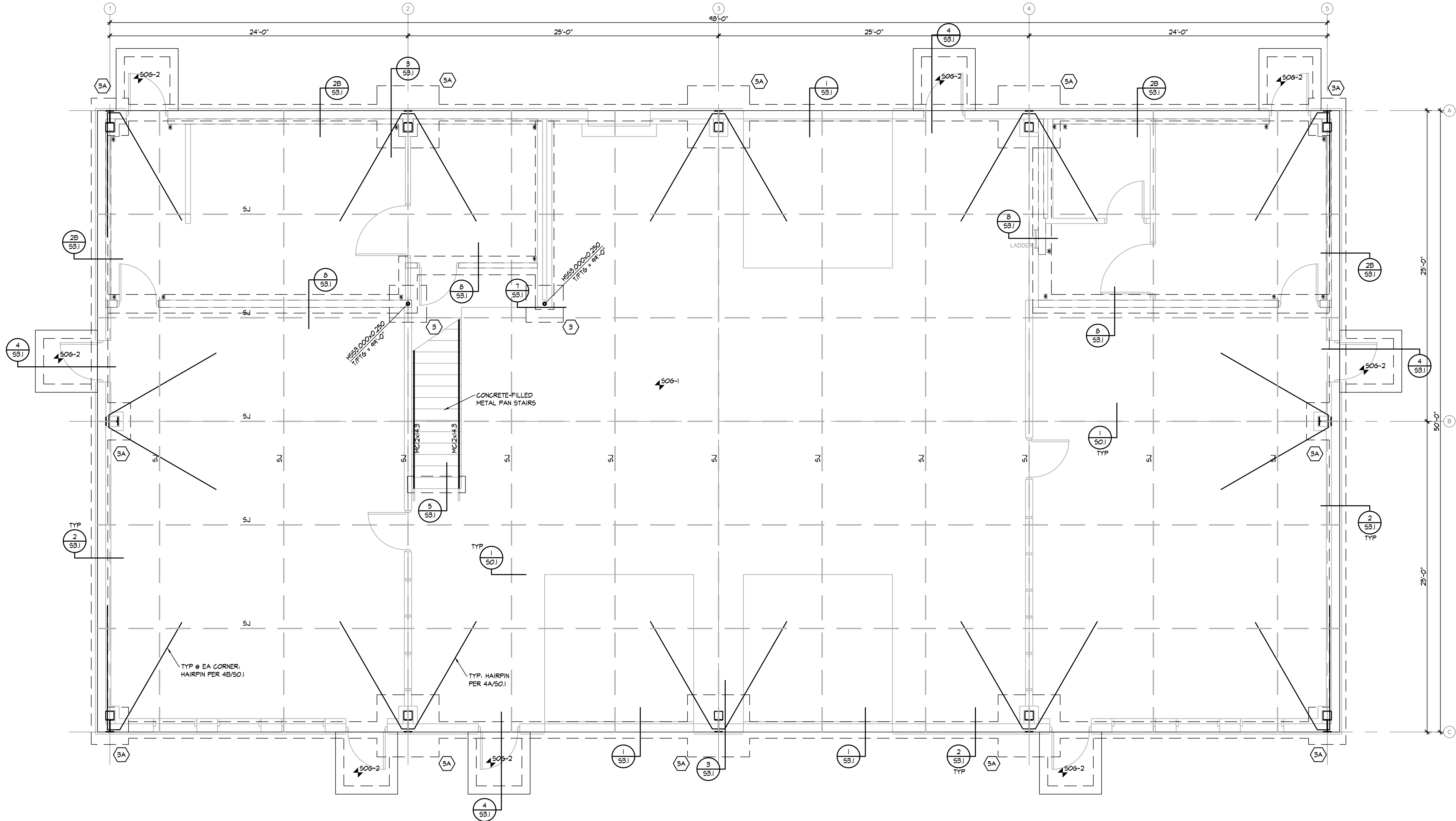
SECTION 9
3/4" = 1'-0" SO.2



COLD-FORMED OPENING SCHEDULE								
MARK	1 HEADER ³	2 HEADER CONNECTION	3 SILL	4 SILL CONNECTION	5 JAMB STUDS ⁵	6 JAMB STUD BASE CONNECTION	7 JAMB STUD HEAD CONNECTION	8 SILL STUDS BASE CONNECTION
CF	(2) 600T125-54 & (2) 600S162-54	H686 HEADER HANGER EA SIDE w/ (30) 1/4"-14 SCREWS	NA	NA	(2) 600S162-54 (1) 600T125-54	UNICLIP- 2 #12 SCREWS TO JAMB (2) HILTI XU TO FOUNDATION	FASTCLIP- 2 #12 SCREWS EACH LEG OF CLIPS	PER NOTE 5

- NOTES:
1. ALL MEMBERS SHALL BE FULLY CONTINUOUS (DO NOT CUT NOR SPLICE) AND BE 660 COATED.
 2. ALL MEMBERS GREATER THAN 18ga SHALL BE 50KSI.
 3. CONNECT HEADER TRACKS TO EACH HEADER JOIST w/ #12 SCREW @ 24" OC MAX ALONG EACH TRACK FLANGE AND WEB.
 4. FASTEN SHEATHING TO STUDS, TOP & BOTTOM TRACKS (BUT NOT DEFLECTION TRACKS) AT 12" OC IN FIELD OF PANEL & 6" OC AT EDGES UNO.
 5. FASTEN TRACKS THROUGH EACH FLANGE TO EACH STUD w/ #10 SCREWS UNO.





FOUNDATION PLAN

1/4" = 1'-0"

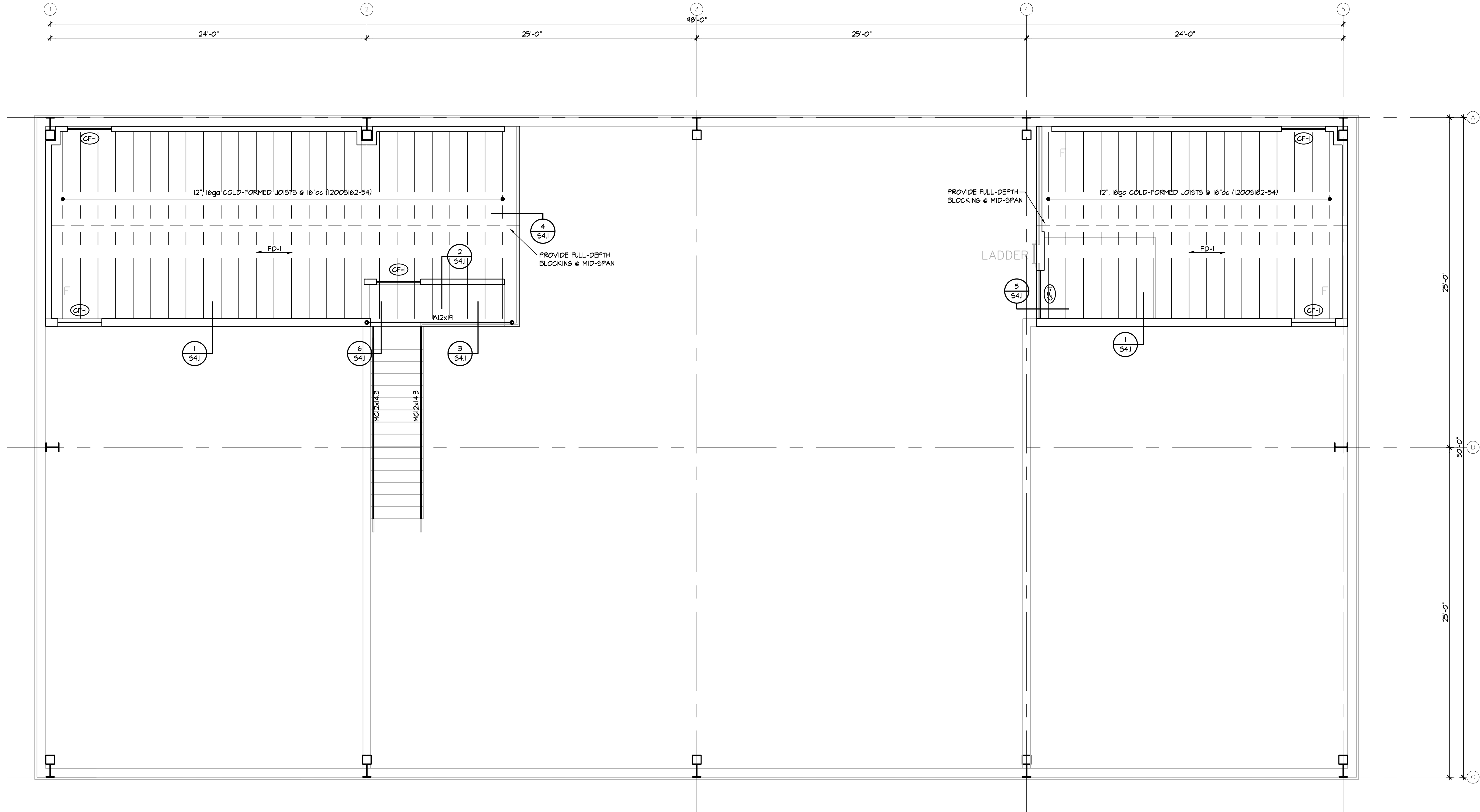
NOTES:

- REFER TO GENERAL NOTES ON SHEET SO.1.
- TOP OF FOOTING ELEVATION = 99'-0" U.N.O.
- ANY CONSTRUCTION JOINT, PER 2/SO.1, SHALL BE PARALLEL FEMB GIRDER.
- FOUNDATION SIZES ARE BASED ON PRELIMINARY LOADS. FINAL FOUNDATION SIZES TO BE VERIFIED BY EOR ONCE FINAL FEMB REACTIONS ARE PROVIDED BY THE FEMB SUPPLIER.
- PILASTER SIZES SHOWN ARE BASED ON PRELIMINARY BASEPLATE SIZES. FINAL PILASTER SIZE SHALL BE 5" LARGER THAN BASEPLATE, IN EACH DIRECTION, IN THE THREE DIRECTIONS NOT CONTROLLED BY THE DOCK WALL.
- ELEVATION 100'-0" EQUALS CIVIL DATUM ELEVATION XXXX.00.
- * INDICATES A SIMPSON 5/DTT22, INSTALL AT BASE OF WALL. ATTACH TO CORNER WALL STUD AND ANCHOR TO CONCRETE SLAB WITH 1/2" x 8" Lg SIMPSON TITEN HD SCREW ANCHORS w/ 1" MIN EMBEDMENT. ATTACH GYPOBOARD TO STUDS WITH #10 SCREWS @ 4" OC AT EDGES & INTERMEDIATE FRAMING MEMBERS- BLOCK JOINTS.

FOOTING SCHEDULE		
FOOTING TYPE	FOOTING SIZE	REINFORCING
3	3'-0"x3'-0"x1'-6"	#4@6"oc EA. WAY BOTT
3A	3'-0"x3'-0"x2'-8"	#4@6"oc EA. WAY T&B
5A	5'-0"x5'-0"x2'-8"	#4@6"oc EA. WAY T&B

NOTES:

- EXTERIOR FOOTINGS OR FOOTING AT GRADE BEAM SHALL MATCH GRADE BEAM DEPTH AND BE PLACED WITH GRADE BEAM. PROVIDE SPECIFIED REBAR TOP & BOTTOM WITH 4 STANDEES TO SUPPORT MATS.
- CENTER FOOTINGS ON COLUMNS AND/OR WALL CENTER LINES PER PLAN, UNLESS NOTED OTHERWISE.



MEZZANINE FRAMING PLAN

1/4" = 1'-0"

NOTES:

- 1) REFER TO GENERAL NOTES ON SHEET S0.1
- 2) MEZZANINES ARE RATED FOR A 125psf LIVE LOAD.
- 3) ALIGN JOISTS WITH STUDS.

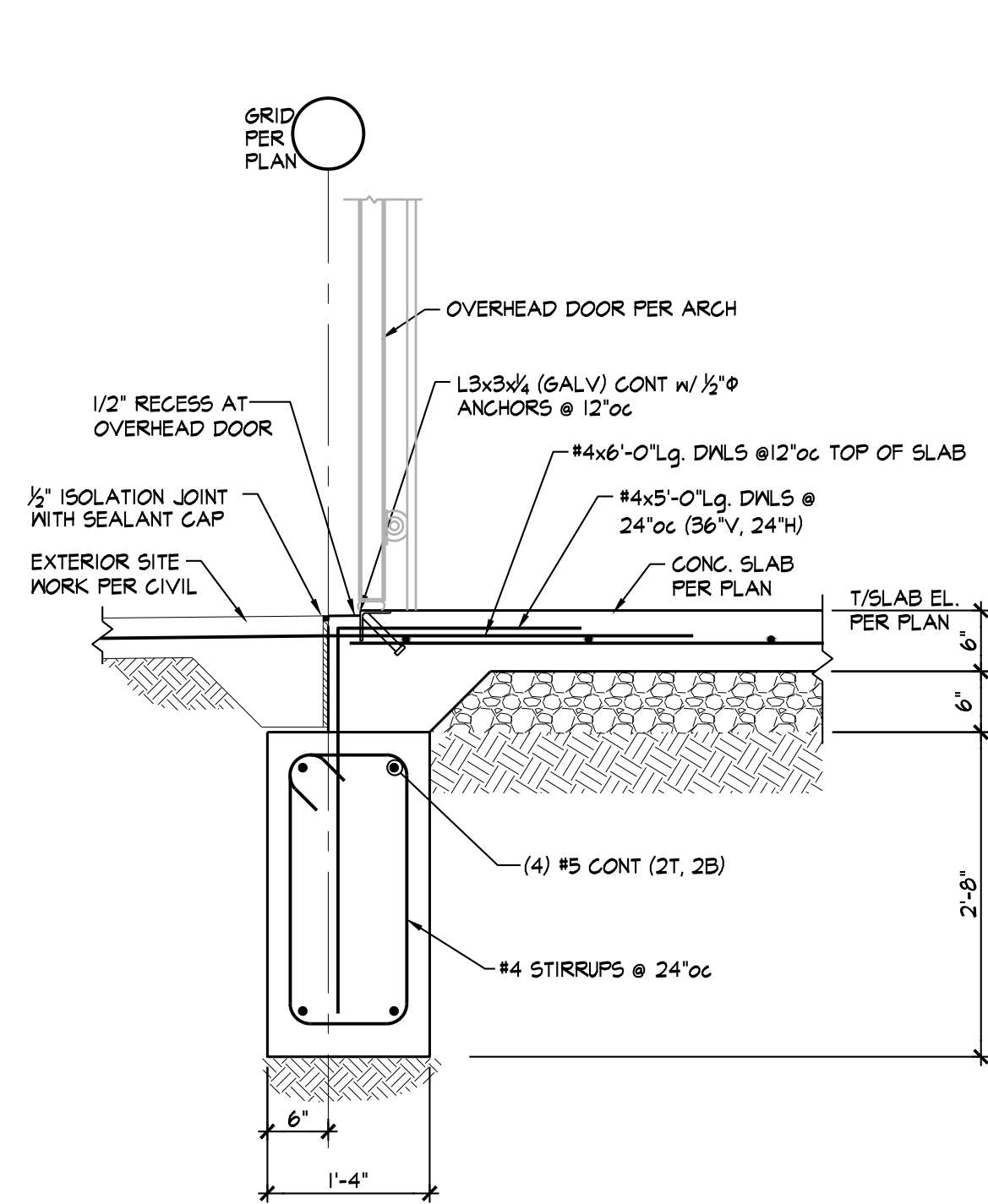


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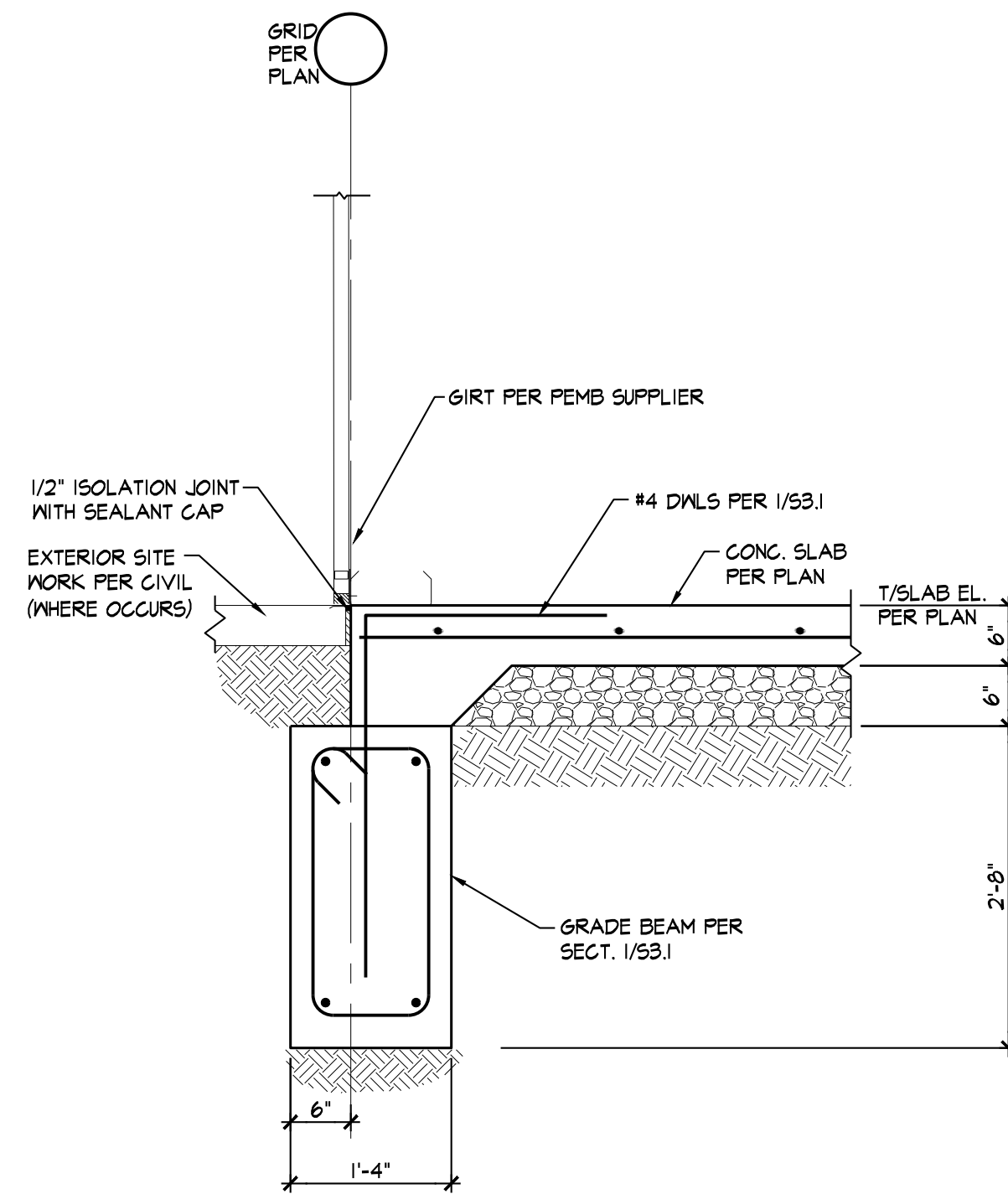
DATE: 10-16-2025

JOB: 24-3521

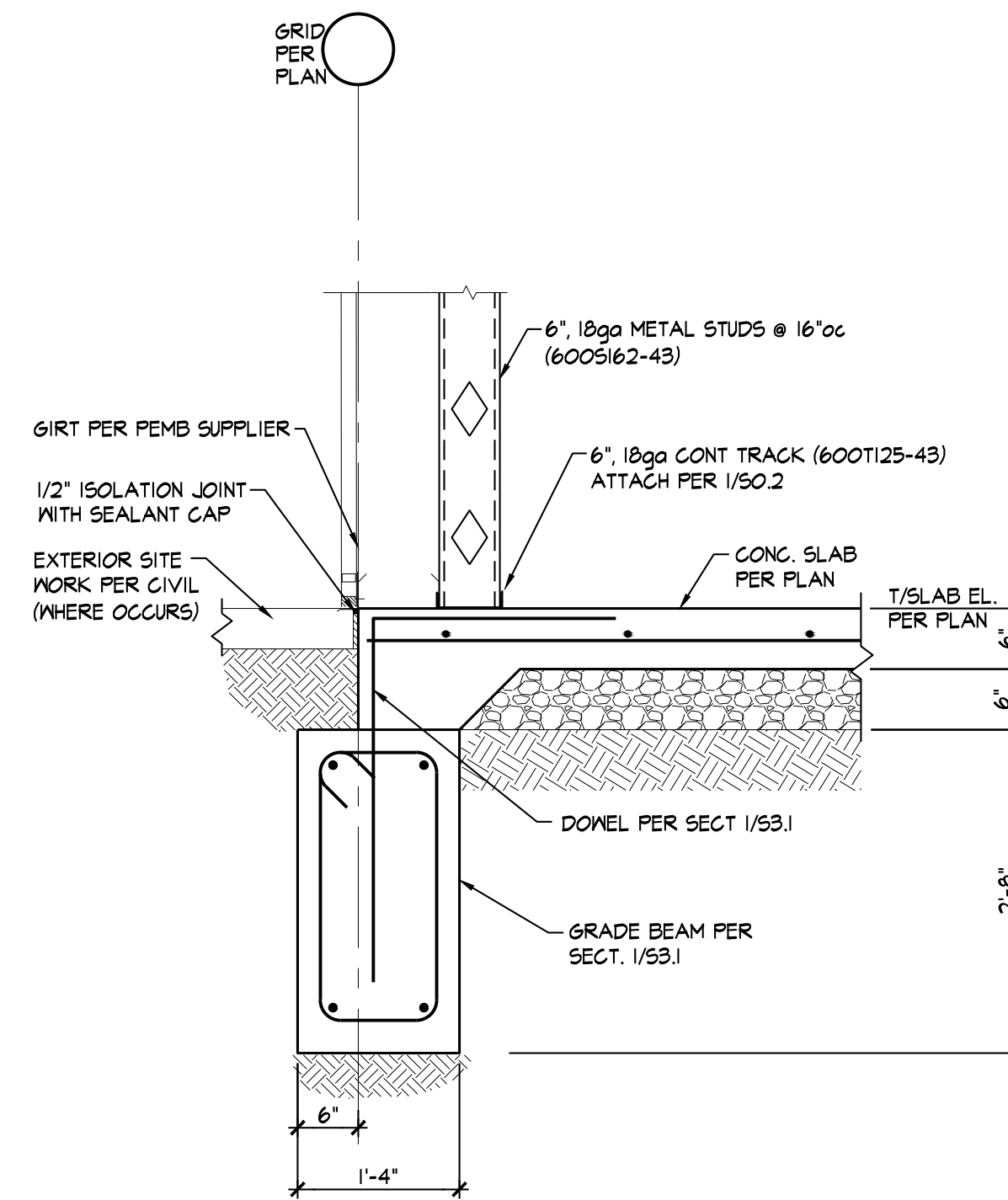
SHEET NO.:



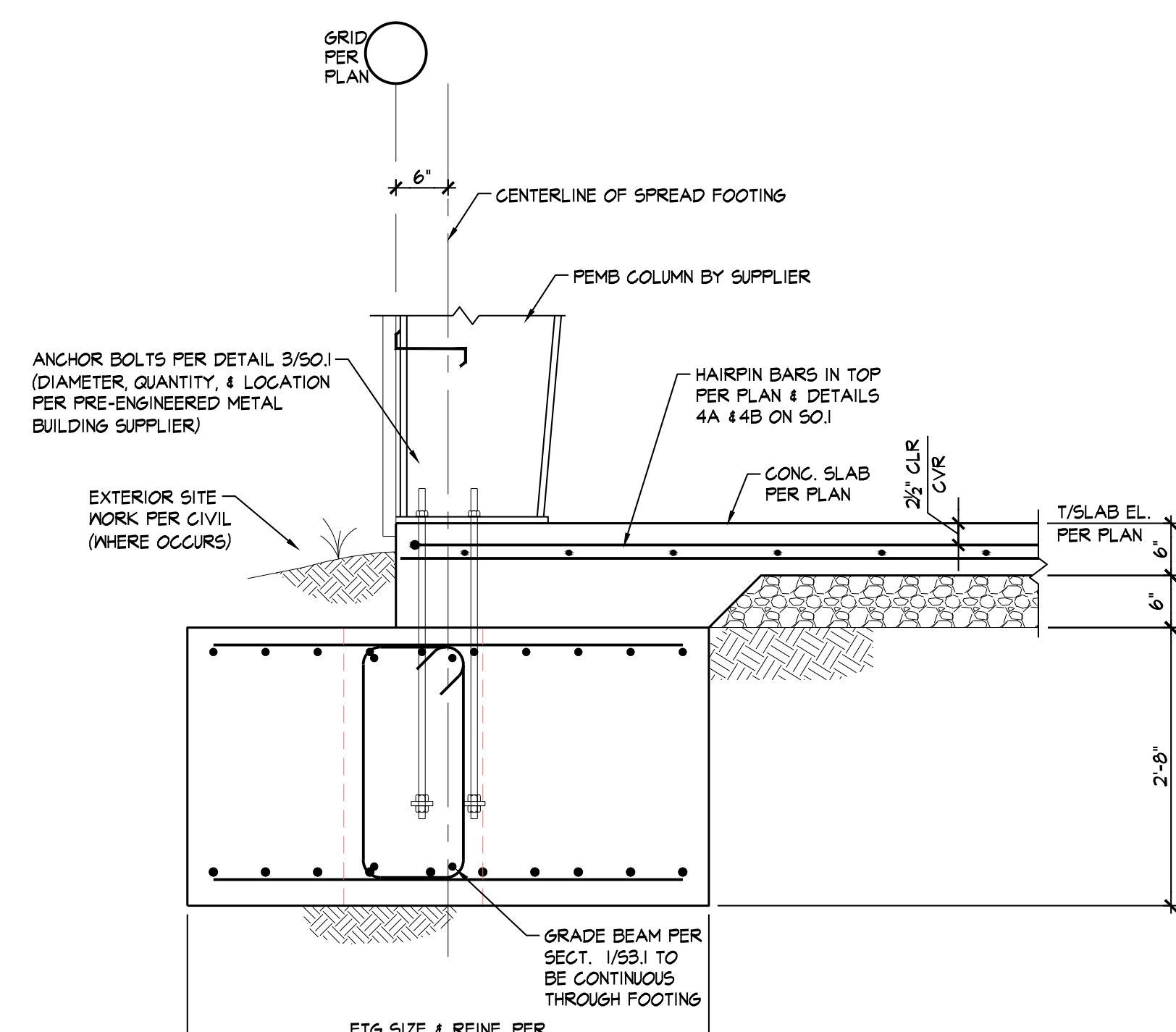
SECTION 1
3/4\" = 1'-0\" S3.1



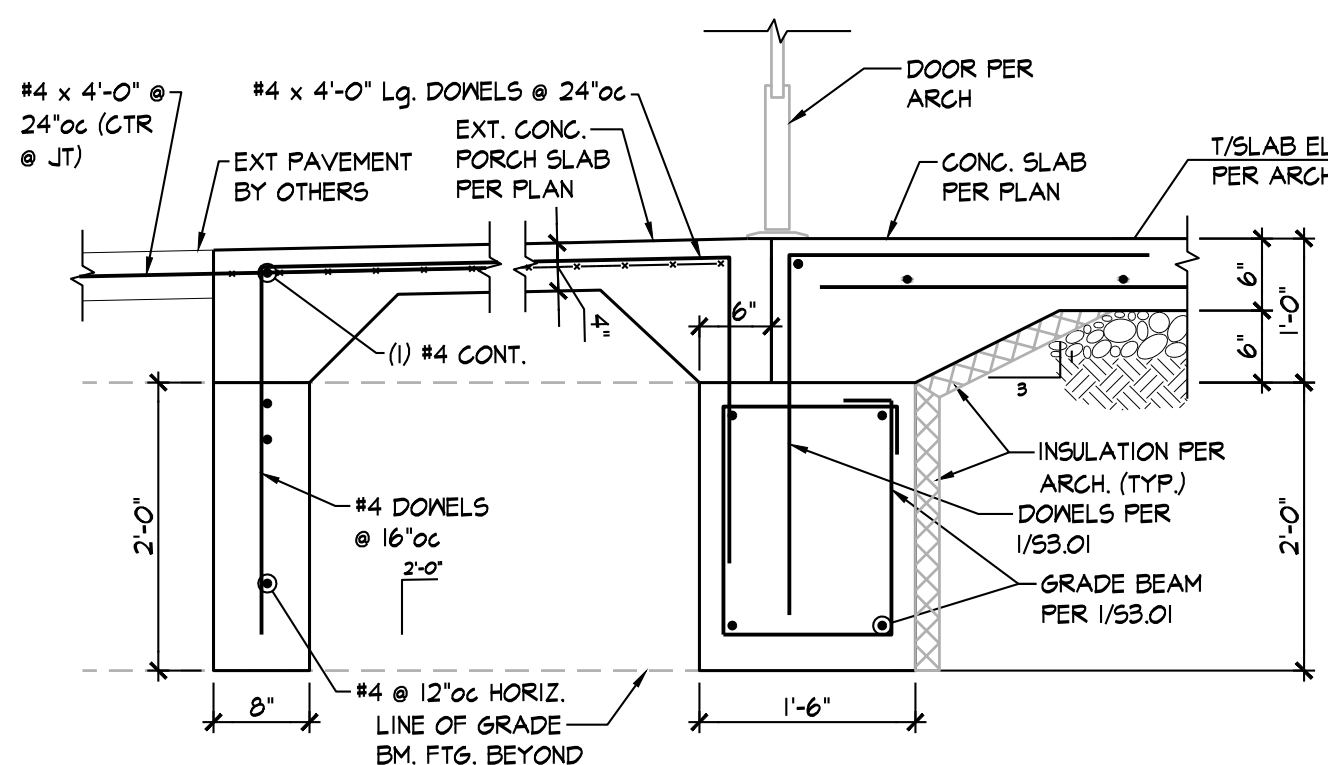
SECTION 2
3/4\" = 1'-0\" S3.1



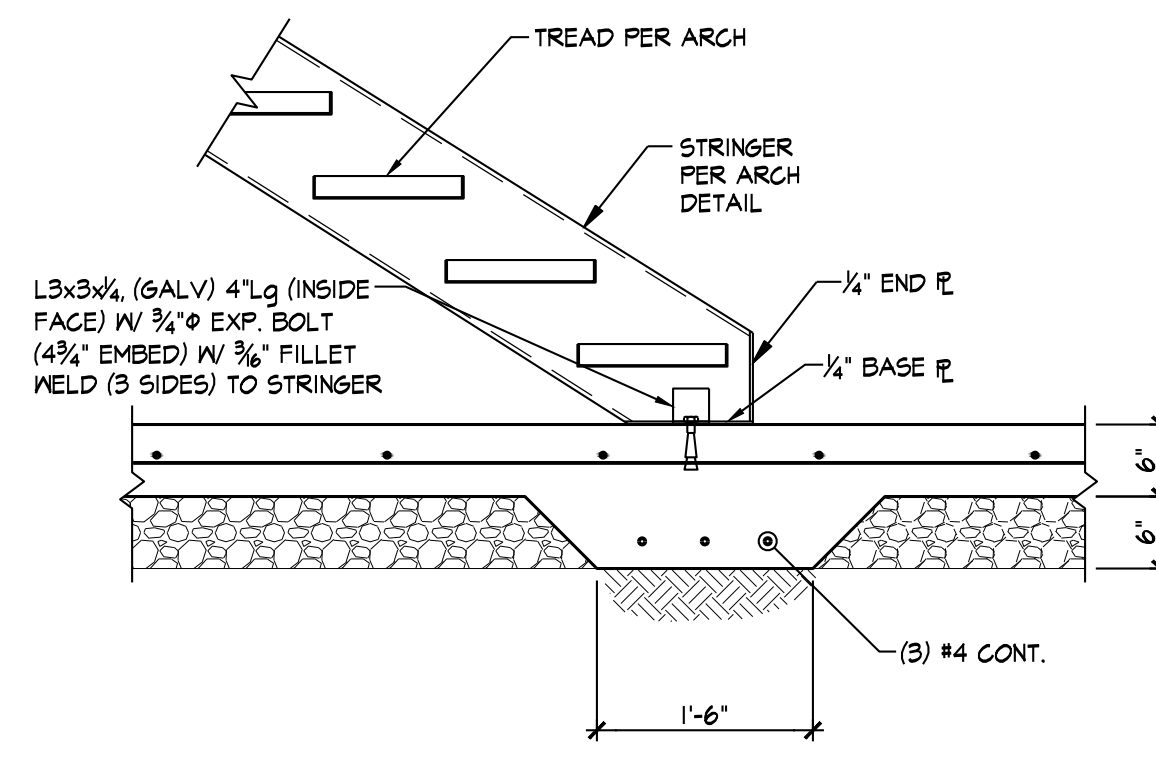
SECTION 2B
3/4\" = 1'-0\" S3.1



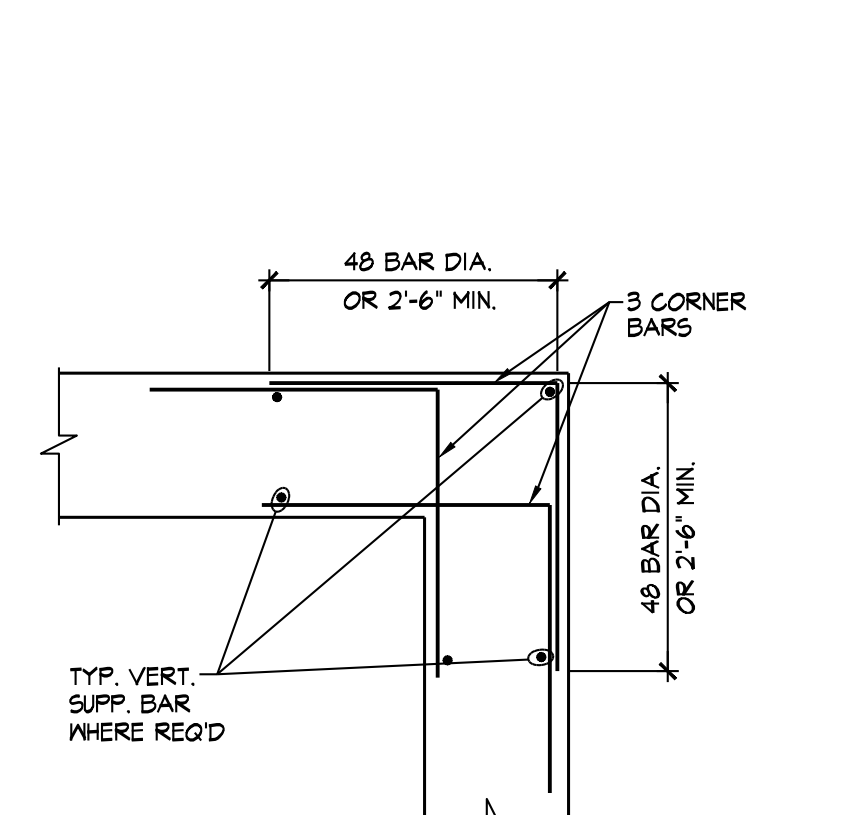
SECTION 3
3/4\" = 1'-0\" S3.1



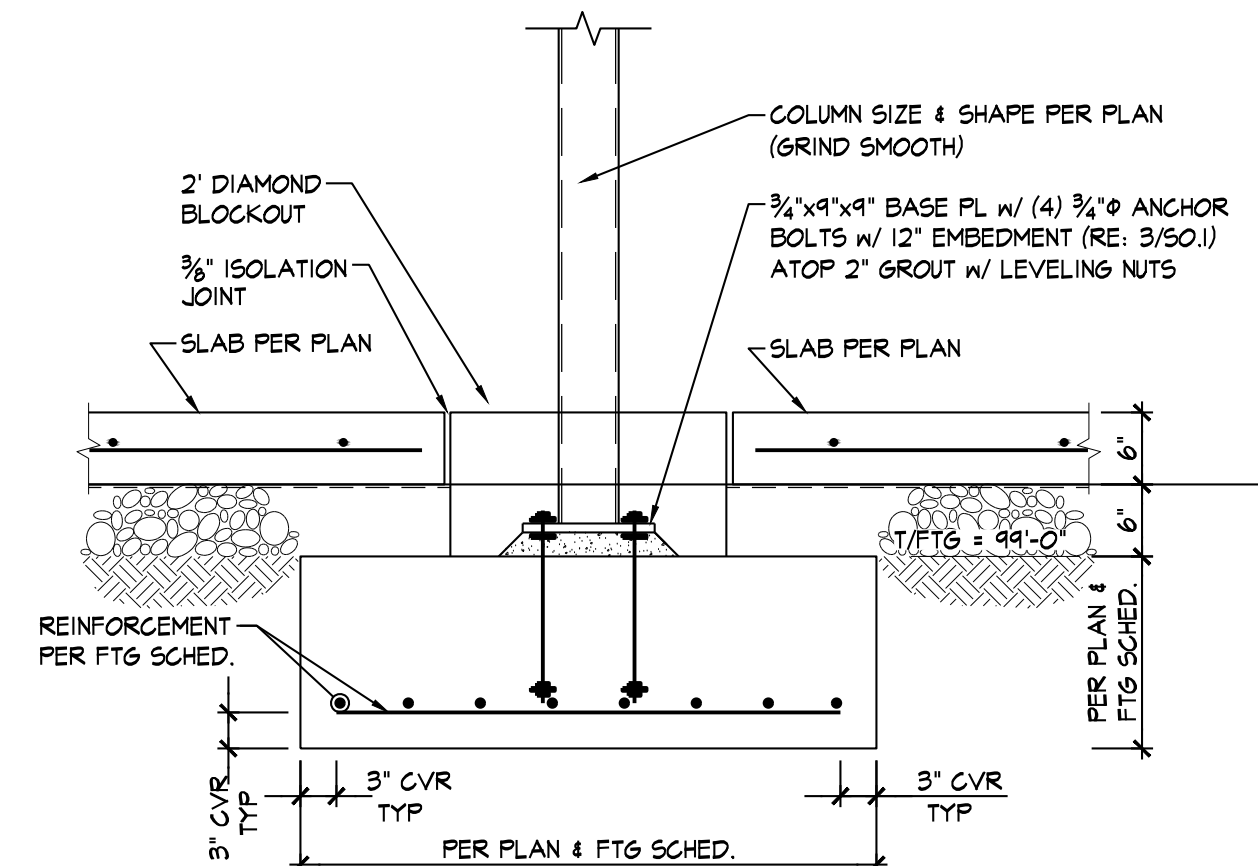
SECTION 4
3/4\" = 1'-0\" S3.1



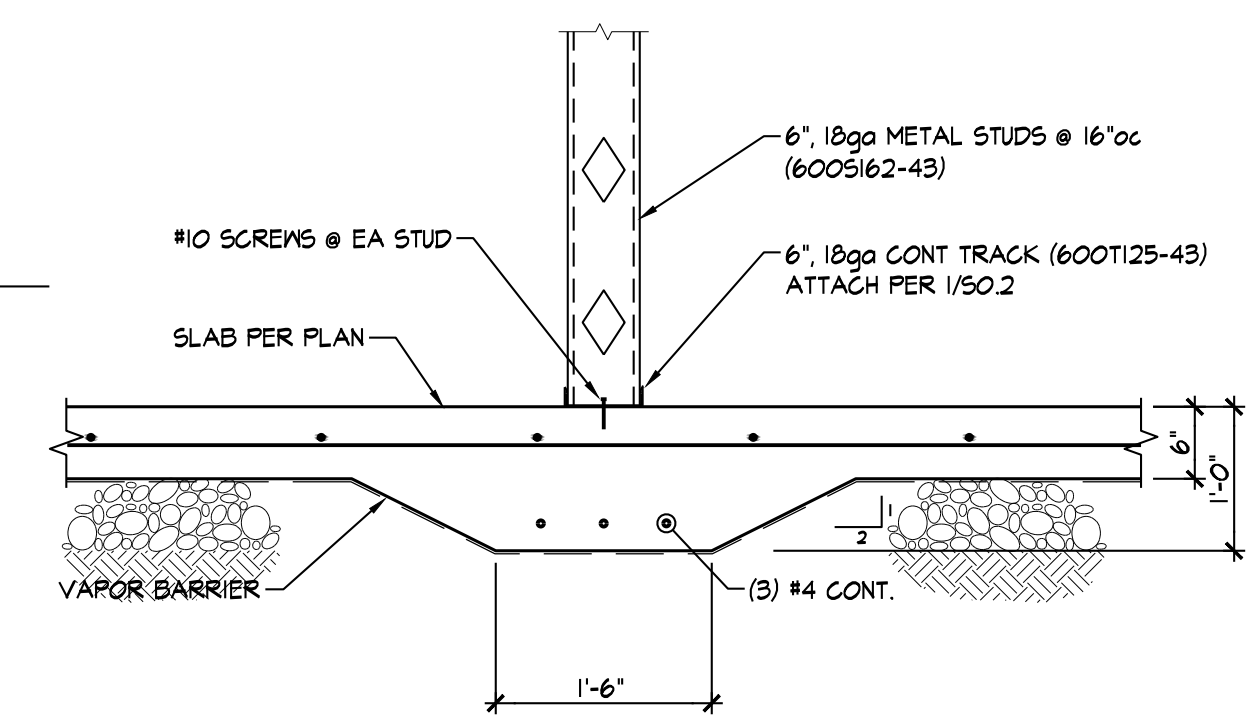
SECTION 5
3/4\" = 1'-0\" S3.1



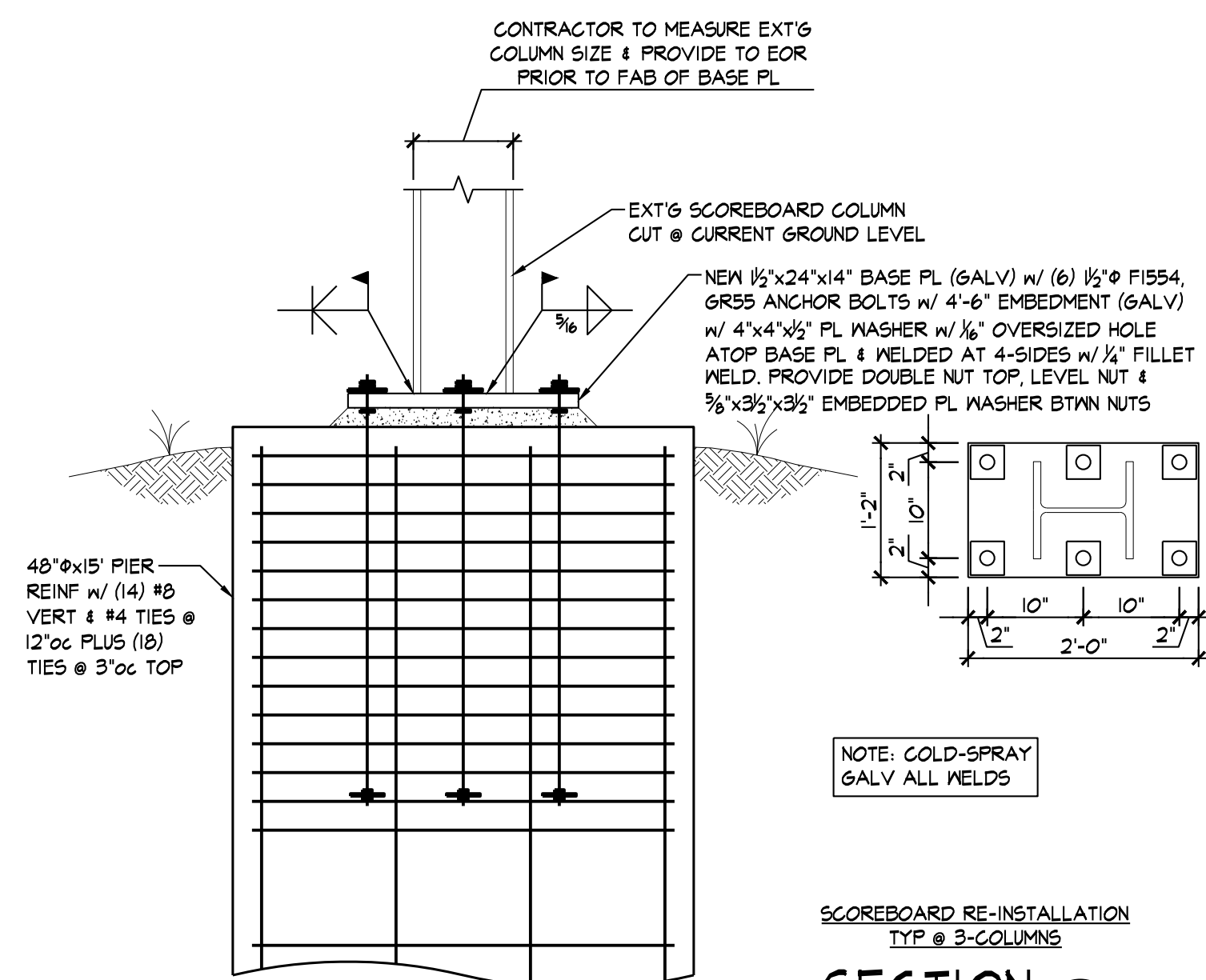
TYPICAL CORNER BARS
3/4\" = 1'-0\" S3.1



TYPICAL STEEL COLUMN SPREAD FOOTING

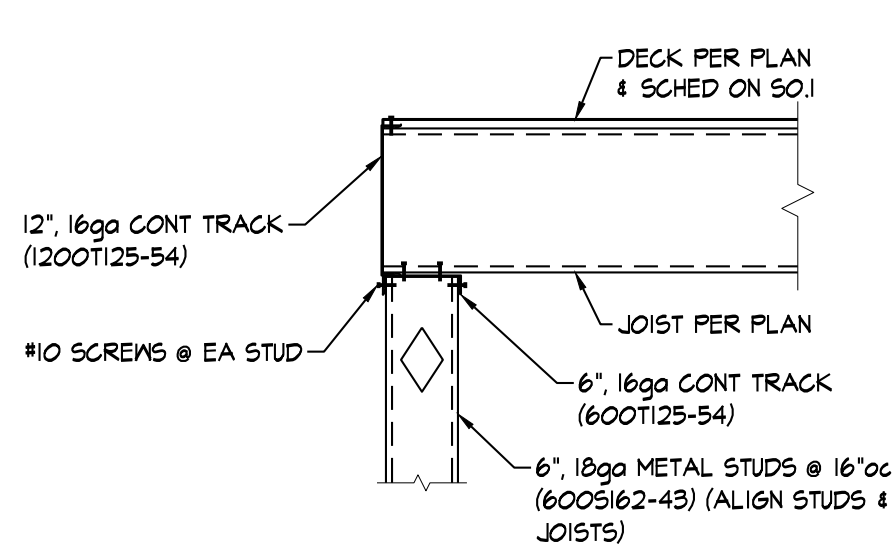


SECTION 7
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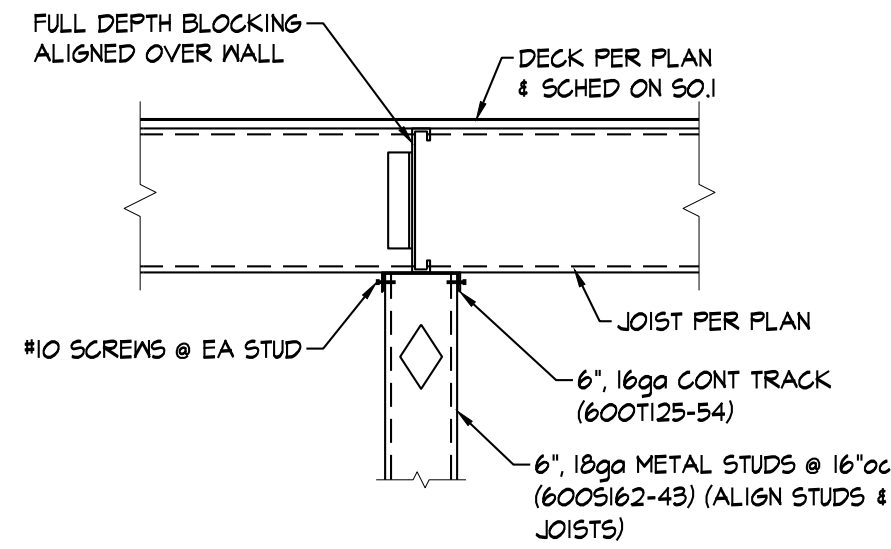


SECTION 8
3/4\" = 1'-0\" S3.1

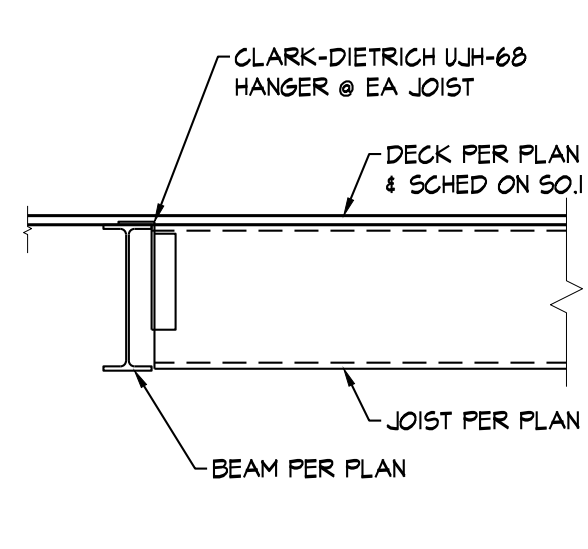
SECTION 9
3/4\" = 1'-0\" S3.1



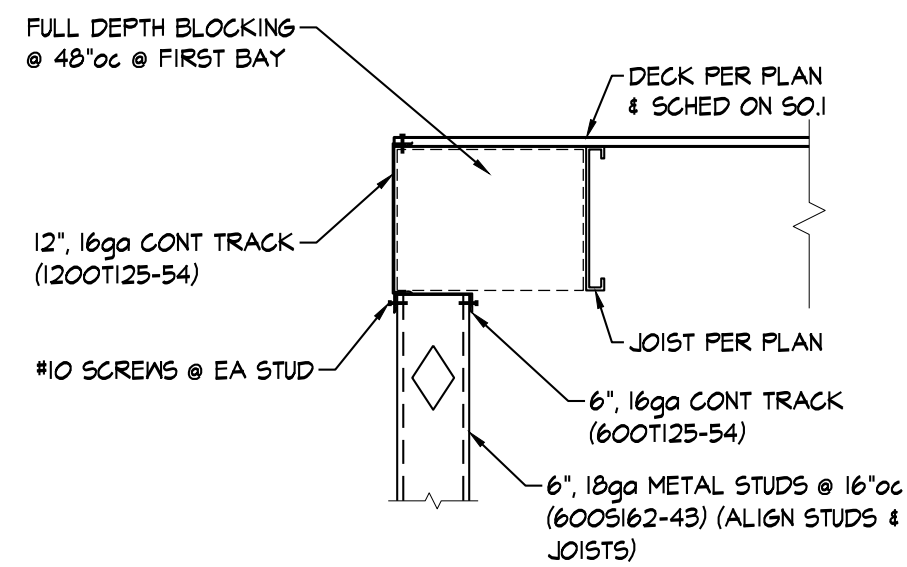
SECTION 1
3/4" = 1'-0" S4.1



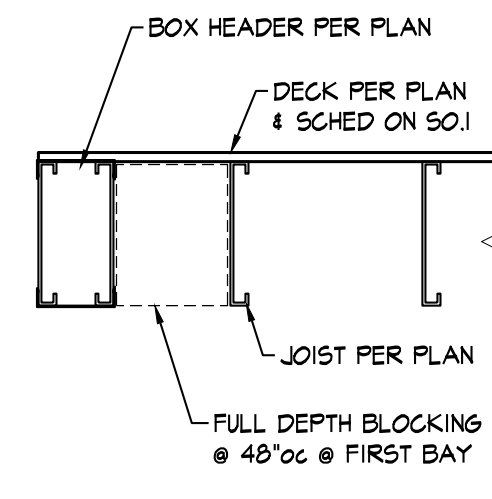
SECTION 2
3/4" = 1'-0" S4.1



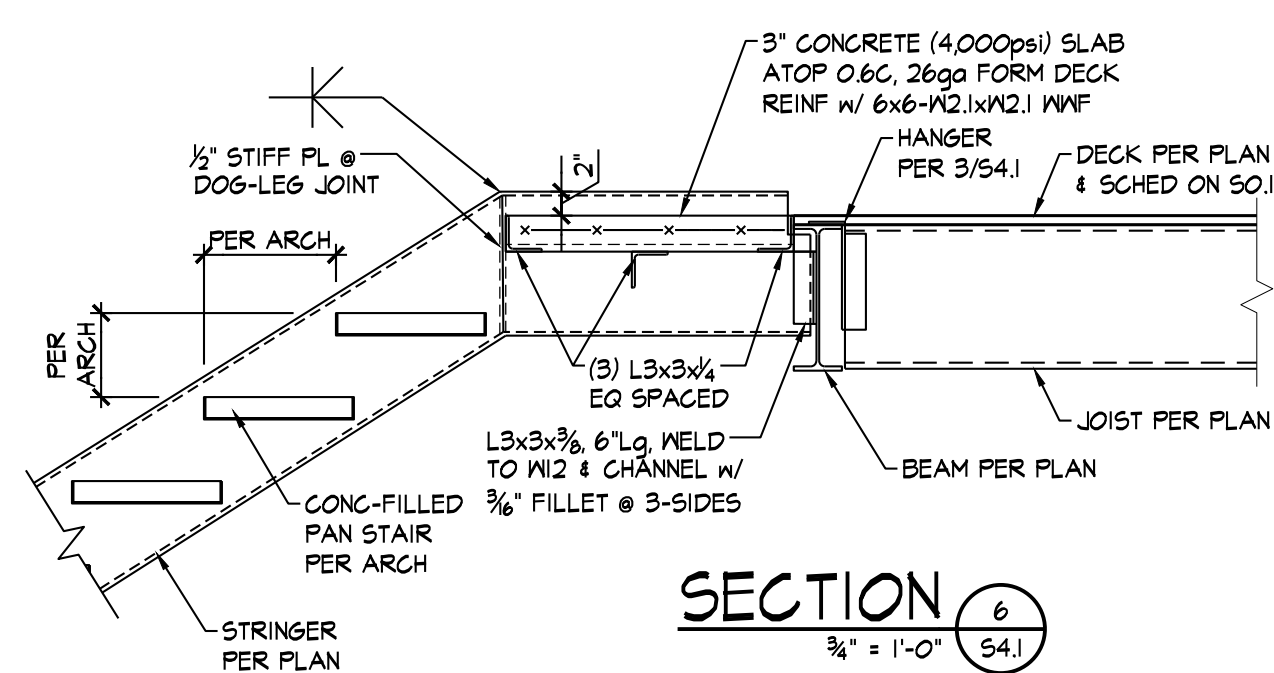
SECTION 3
3/4" = 1'-0" S4.1



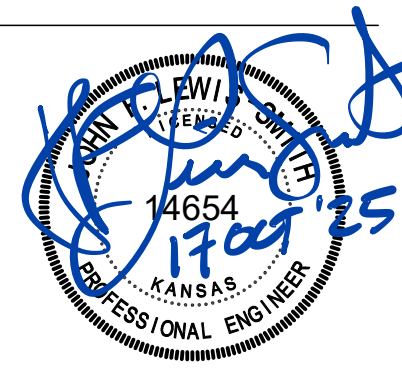
SECTION 4
3/4" = 1'-0" S4.1



SECTION 5
3/4" = 1'-0" S4.1



SECTION 6
3/4" = 1'-0" S4.1

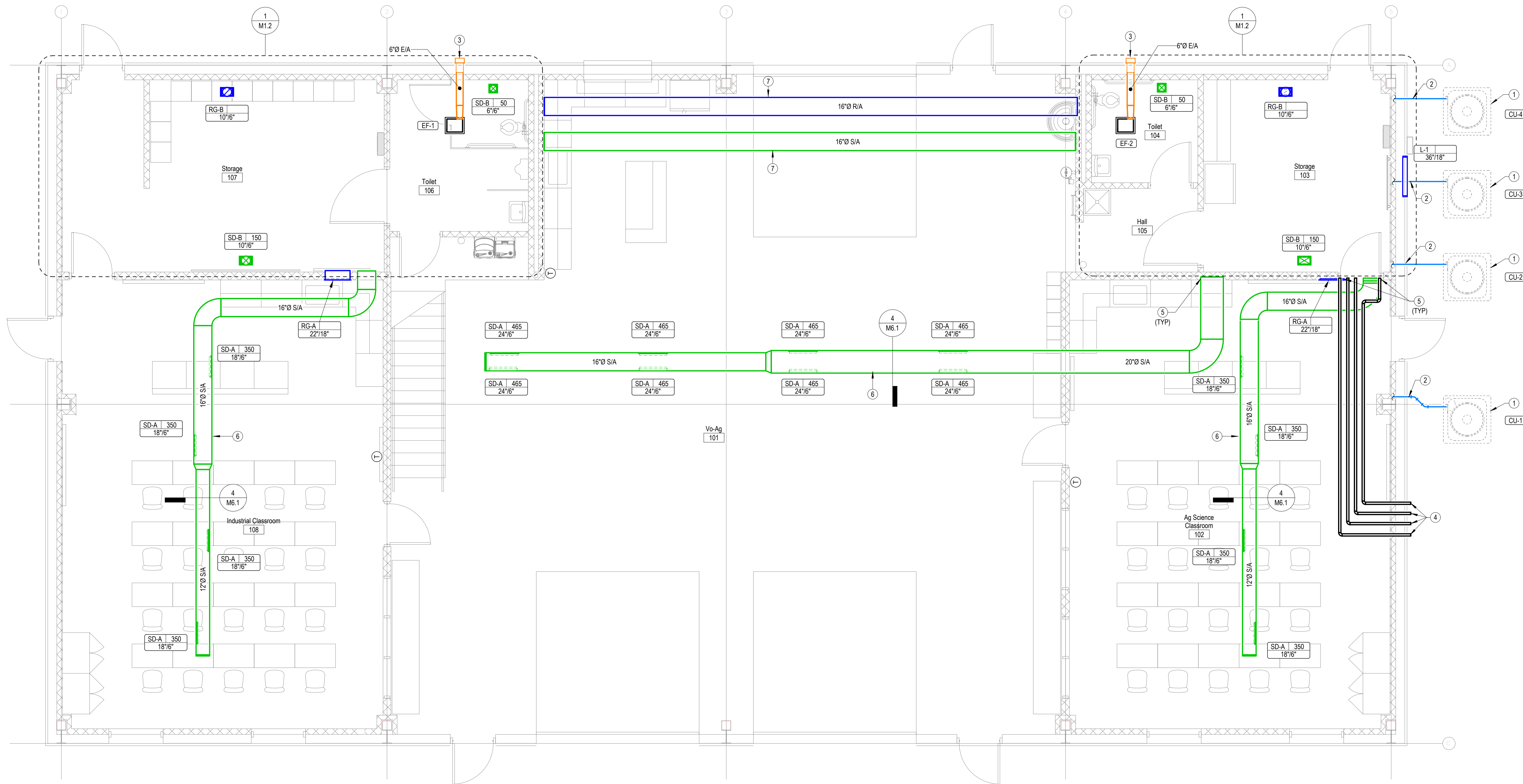


REVISIONS:

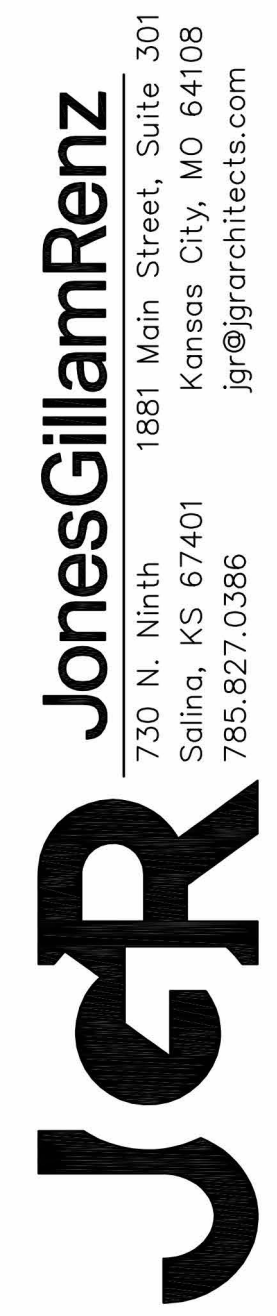
DATE: 10-17-2025
JOB: 24-3458
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M1.1

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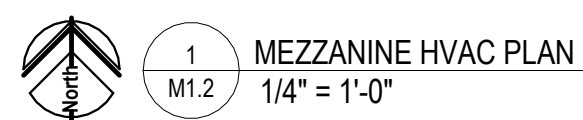
1 MAIN LEVEL HVAC PLAN
1/4" = 1'-0"



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KANSAS



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LOUVER SCHEDULE

NOTES: COORDINATE FRAME TYPE AND MOUTING REQUIREMENTS WITH ARCH. AND G.C.

MARK	MANUFACTURER	MODEL	DESCRIPTION	FINISH	APPLICATION	DEPTH	WIDTH	HEIGHT	FREE AREA
L-1	GREENHECK	ESD-435	EXTRUDED ALUMINUM DRAINABLE BLADE LOUVER	KYNAR	INTAKE	4"	3'-0"	1'-6"	1.93 SF

GRILLES, REGISTERS & DIFFUSERS SCHEDULE

GENERAL: • MAXIMUM NOISE CRITERIA SHALL BE 25.
• RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS NECK, U.N.O.
• PAINT OBJECTS VISIBLE THROUGH GRILLES WITH FLAT BLACK PAINT.
• PROVIDE MOUNTING FRAME AS REQUIRED FOR CEILING TYPE. COORDINATE WITH ARCHITECT.
• CEILING DEVICES SHALL HAVE 4-WAY ADJUSTABLE BLOW PATTERN U.N.O.
• COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL CEILING PLANS AND ELEVATIONS.

MARK	MANUFACTURER	MODEL	APPLICATION	MATERIAL	FINISH	INSTALLATION	BORDER	DAMPER	DESCRIPTION
RG-A	Titus	50F	Return Air	Aluminum	Mill	Wall Mount	Surface Mount	No	Return Grille
RG-B	Titus	355RL	Return Air	Steel	White Enamel	Ceiling	Surface Mount	No	Return Grille
SD-A	Titus	S300FS	Supply Air	Aluminum	Mill	Suspended	Duct Mount Frame	No	Supply Grille
SD-B	Titus	300R	Supply Air	Steel	White Enamel	Ceiling	Surface Mount	No	Supply Grille

CONDENSING UNIT SCHEDULE

NOTES:
1. PROVIDE REFRIGERANT PIPING SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIO...
2. PROVIDE WITH R-454B REFRIGERANT

Mark	Manufactur er	Model	Nominal Capacity	Outdoor Cooling EDB	Voltage	Phase	MCA	MOCP
CU-1	Trane	5TTR4042	3.50 ton	105 °F	240 V	1	23 A	40 A
CU-2	Trane	5TTR4042	3.50 ton	105 °F	240 V	1	23 A	40 A
CU-3	Trane	5TTR4042	3.50 ton	105 °F	240 V	1	23 A	40 A
CU-4	Trane	5TTR4042	3.50 ton	105 °F	240 V	1	23 A	40 A

GAS FIRED FURNACE/ EVAPORATOR SCHEDULE

NOTES:
1. PROVIDE PVC INTAKE AND EXHAUST PIPING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT.
3. PROVIDE WITH CASED A-COIL EVAPORATOR
4. PROVIDE WITH REFRIGERATN PIPING SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR ACTUAL FIELD INSTALLED LENGTH AND ROUTING.

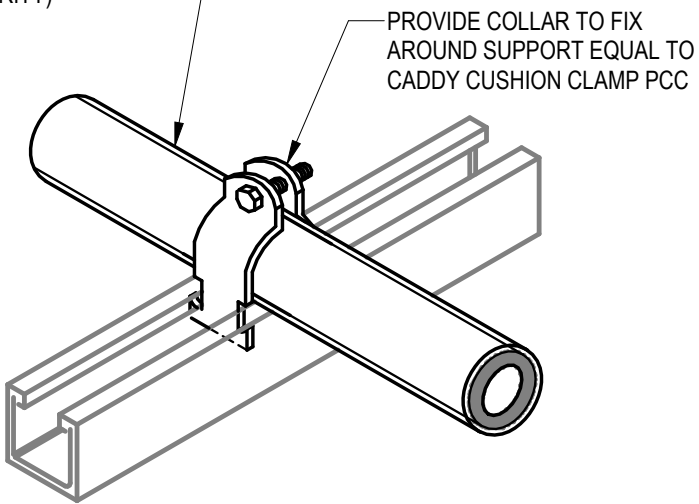
			Supply Fan				Cooling Coil				Gas Burner Ratings				Electrical			
Identity	Manufacturer	Model	Outdoor Air Intake Flow	Design Airflow Rate	ESP	HP	Total	Sensible	EDB	EWB	Input Rating	Output Rating	MCA	MOCP	Voltage	Phase		
F-1	TRANE	S9X2B080U4PSBA	320 CFM	1,400 CFM	0.60 in-wg	0.75 hp	40,278 Btu/h	3,023 Btu/h	80 °F	67 °F	80,000 Btu/h	77,600 Btu/h	11 A	15 A	120 V	1		
F-2	TRANE	S9X2B080U4PSBA	310 CFM	1,400 CFM	0.60 in-wg	0.75 hp	40,278 Btu/h	3,023 Btu/h	80 °F	67 °F	80,000 Btu/h	77,600 Btu/h	11 A	15 A	120 V	1		
F-3	TRANE	S9X2B080U4PSBA	335 CFM	1,400 CFM	0.60 in-wg	0.75 hp	40,278 Btu/h	3,023 Btu/h	80 °F	67 °F	80,000 Btu/h	77,600 Btu/h	11 A	15 A	120 V	1		
F-4	TRANE	S9X2B080U4PSBA	335 CFM	1,400 CFM	0.60 in-wg	0.75 hp	40,278 Btu/h	3,023 Btu/h	80 °F	67 °F	80,000 Btu/h	77,600 Btu/h	11 A	15 A	120 V	1		

EXHAUST FAN SCHEDULE

NOTES:
1. PROVIDE WITH FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
2. PROVIDE WITH EC MOTOR WITH AIRFLOW SELECTOR
3. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER

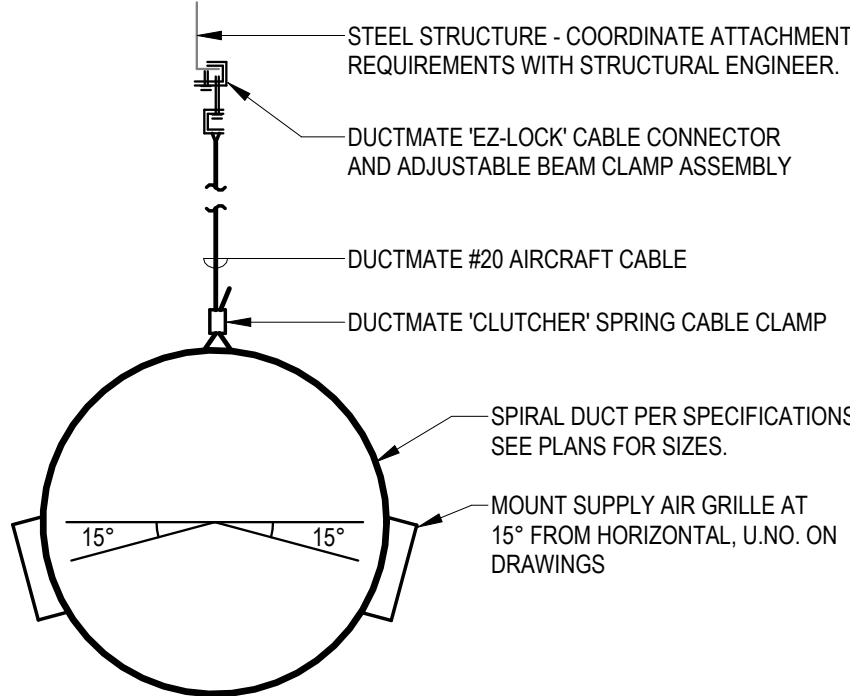
Mark	Manufacturer	Design Airflow Rate	Fan Design ESP	Rated Voltage	Apparent Power Load
EF-1	Greenheck	110 CFM	0.25 in-wg	115 V	22 VA
EF-2	Greenheck	80 CFM	0.25 in-wg	115 V	22 VA

PROVIDE EXTERIOR RATED PVC
JACKETING ON EXTERIOR
REFRIGERANT PIPING. (SHOWN CUT
AWAY AT COLLAR FOR CLARITY)



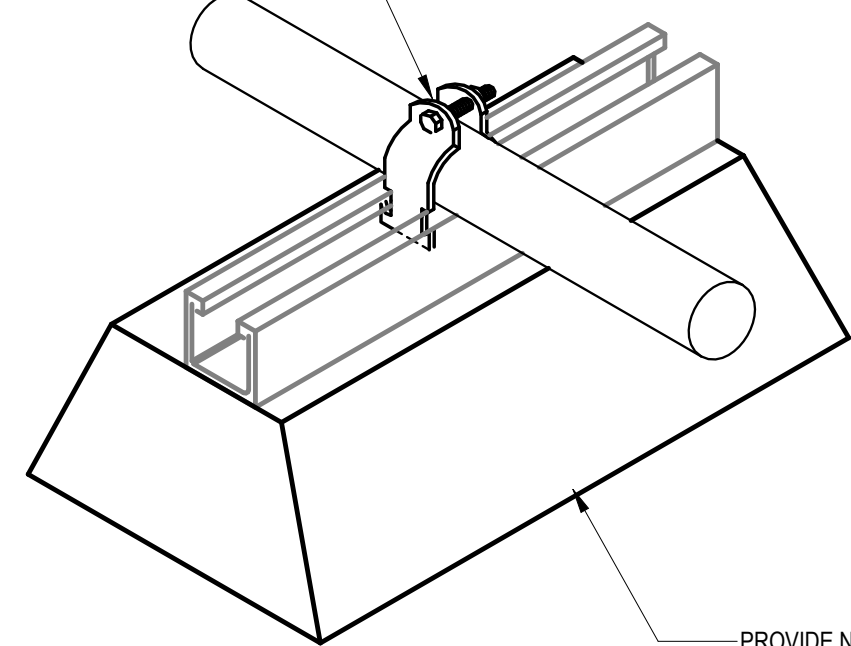
REFRIGERANT LINESET

2
M6.1
EXTERIOR REFRIGRANT PIPING INSULATION DETAIL
NO SCALE



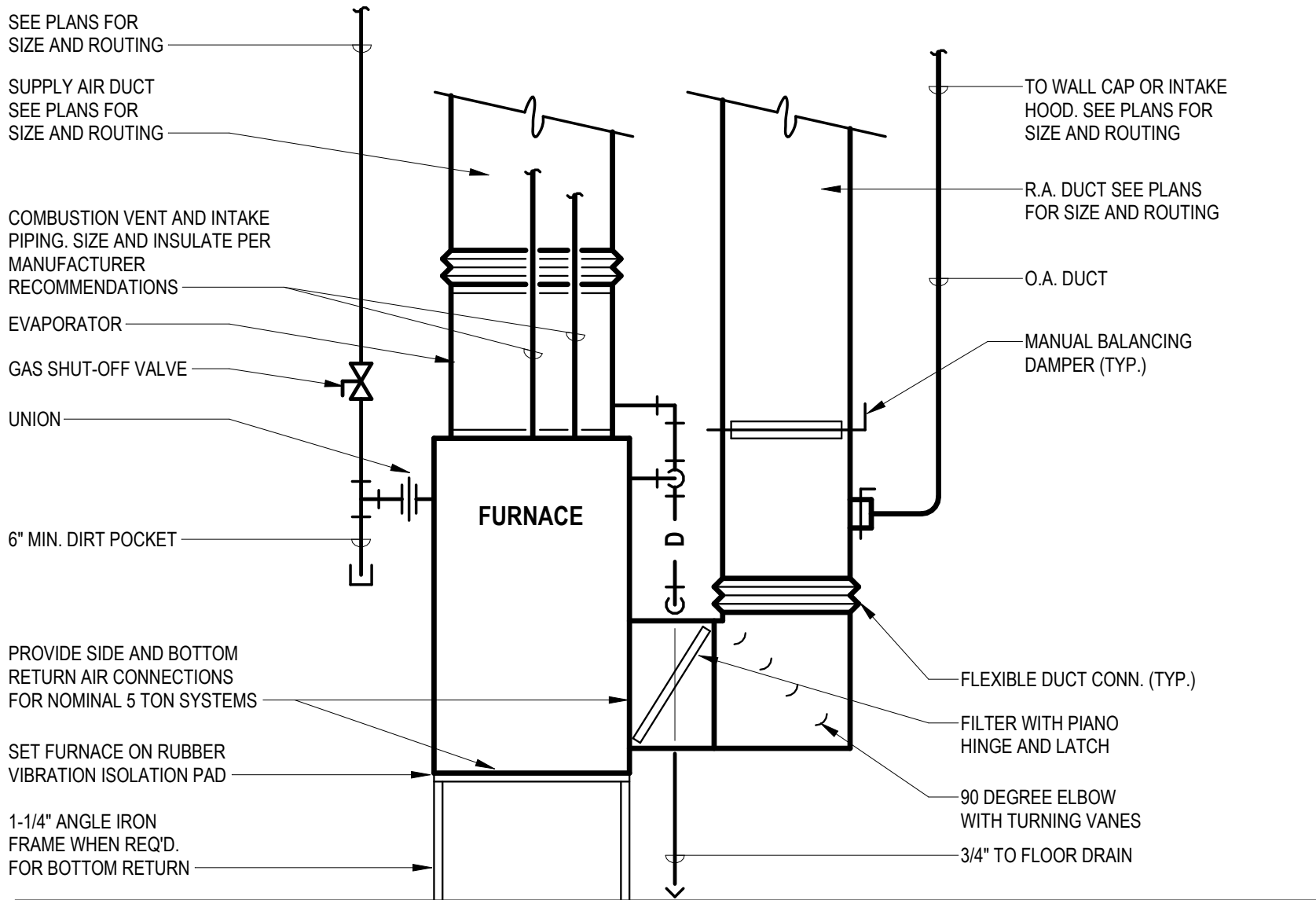
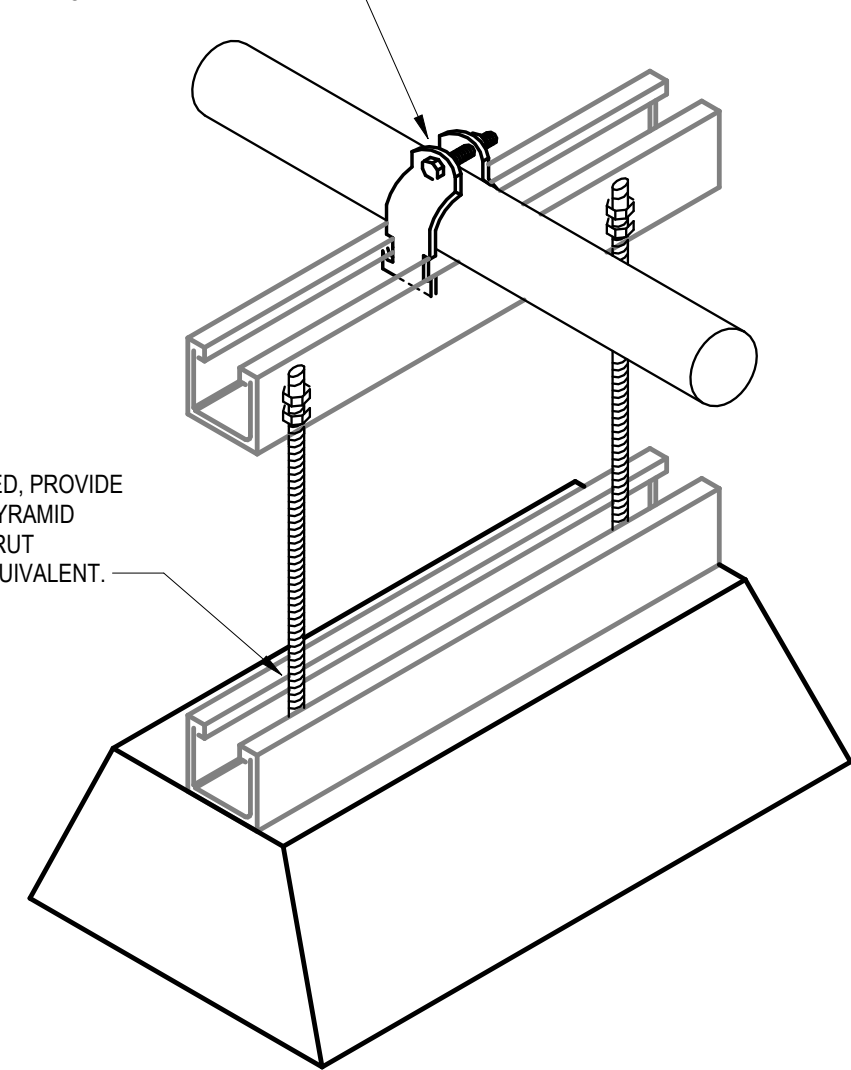
4
M6.1
SPIRAL DUCT DETAIL
12" ± 1'-0"

SECURE PIPE TO ROOF TOP
SUPPORT WITH COMPATIBLE
PIPE CLAMP.



3
M6.1
EXTERIOR PIPING SUPPORT DETAIL
NO SCALE

SECURE PIPE TO ROOF TOP
SUPPORT WITH COMPATIBLE
PIPE CLAMP.



1
M6.1
UPFLOW FURNANCE DETAIL
NO SCALE

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GENERAL PLUMBING NOTES

A. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.

B. FITTING, ELBOW, OR REDUCER SHALL BE 1/2" OVER 2" AT 18" PER FOOT, 2" AND SMALLER AT 14" PER FOOT.

C. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.

D. ROUTE DOMESTIC WATER AND SANITARY SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.

E. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.

F. LOCATIONS OF PIPING AND EQUIPMENT AS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO ANY ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

G. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, BUT NOT LIMITED TO THE INTERNATIONAL, (OR UNIFORM, DEPENDING ON JURISDICTION) PLUMBING CODE AND INTERNATIONAL MECHANICAL CODE.

H. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

I. LOCATE PIPING AND EQUIPMENT OUTSIDE OF THE NEC REQUIRED CLEAR SPACE ABOVE AND AROUND ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE UL LISTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES.

K. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

L. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE. VISUAL INSPECTION OR HAND OPERATION, WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

M. PIPING SIZES SHOWN TO PROPERLY CONNECT TO EQUIPMENT.

N. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

O. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH THE QUALITY AND WORKMANSHIP SPECIFIC WITH THE SPECIFICATIONS.

P. INSTALL EXPOSED PIPING AS HIGH AS PRACTICAL, IN ROOMS WITHOUT CEILINGS.

Q. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL PLUMBING EQUIPMENT AND MATERIALS. SUBSTITUTE EQUIPMENT AND MATERIALS INSTALLED WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REPLACEMENT AT CONTRACTOR'S EXPENSE.

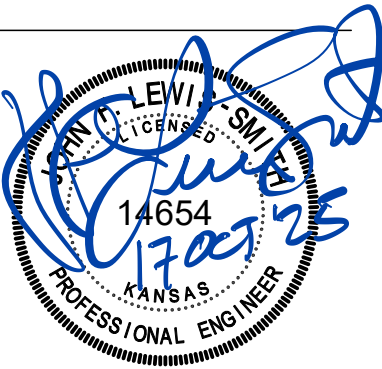
R. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

S. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

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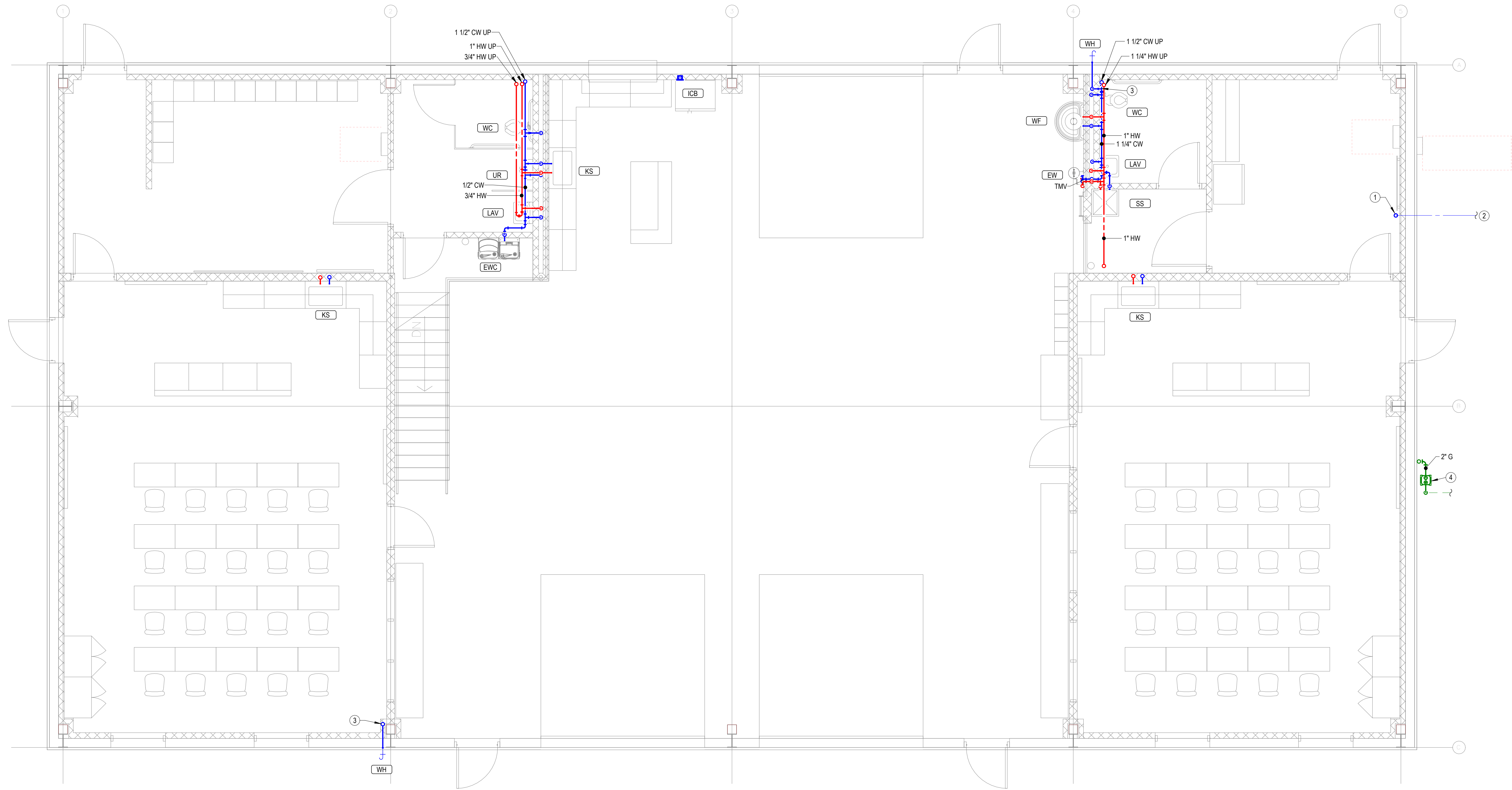
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1
P1.2

MAIN LEVEL DOMESTIC WATER & GAS PLAN
1/4" = 1'-0"



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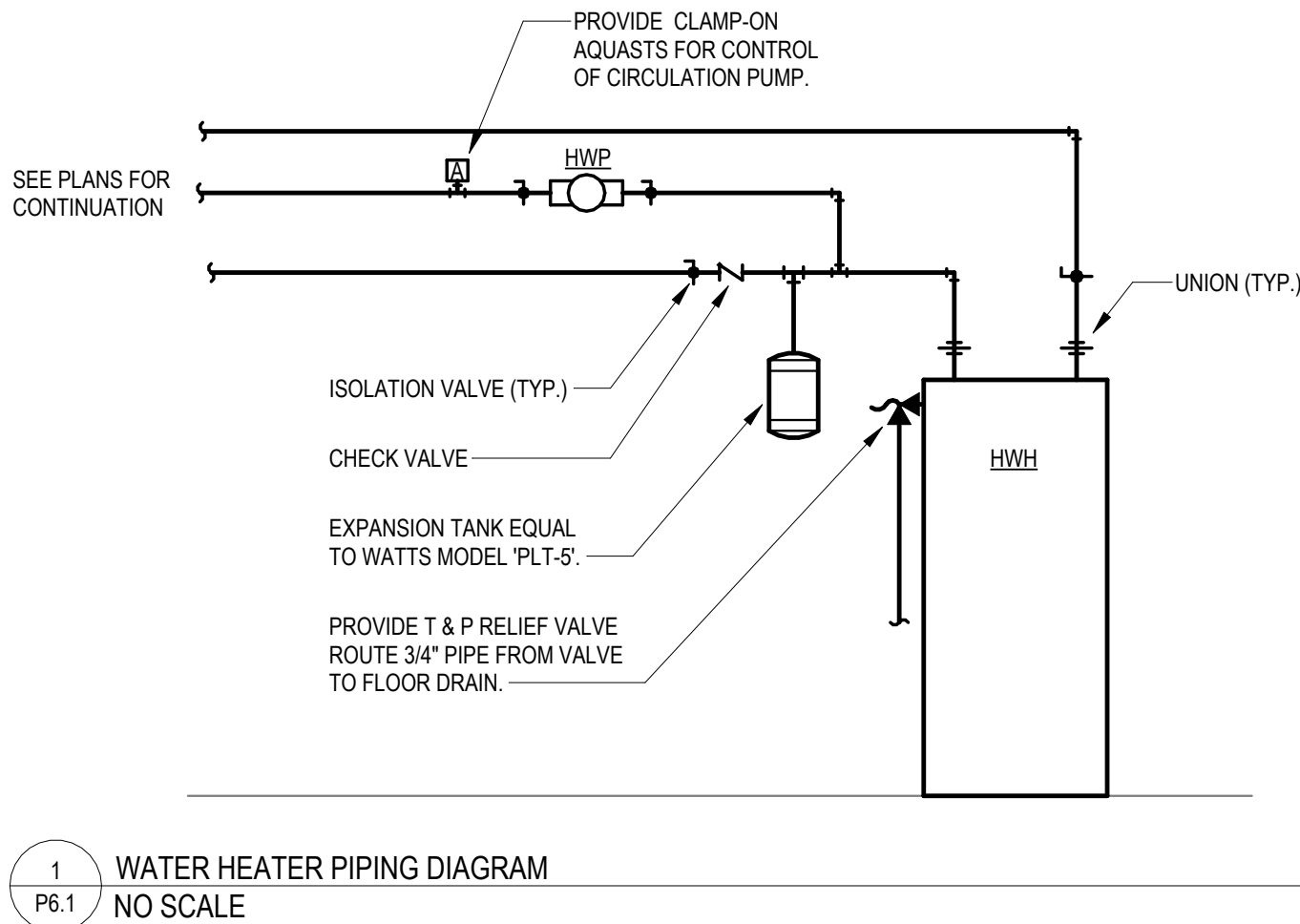
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DOMESTIC WATER EQUIPMENT SCHEDULE			
GENERAL: • PROVIDE FIXTURES WITH ALL TRIM NECESSARY FOR COMPLETE INSTALLATION.			
MARK	MANUFACTURER	MODEL	DESCRIPTION
HWH	AO Smith	ENT-50	50 GALLON ELECTRIC WATER HEATER, 4500 WATTS, 208V HEATING ELEMENT, 20 GPH RECOVERY @ 90°F TEMP RISE. SUPPLIED WITH TEMPERATURE AND PRESSURE RELIEF VALVE AND BRASS DRAIN VALVE. WATER HEATER SHALL HAVE TEMPERATURE CONTROLS SET TO LIMIT SUPPLY TEMPERATURE TO 120°F OR LESS.
HWP	BELL & GOSSETT	NBF-33	CIRCULATION PUMP, BRONZE BODY, 10 GPM @ 10' HEAD, 120 VAC. PROVIDE CLAMP-ON AQUASTAT FOR PUMP CONTROL.



JGR

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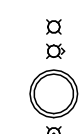
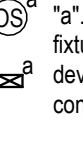
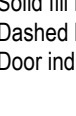
DATE: 10-17-2025

JOB: 24-3458

SHEET NO.:

E0.1

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Electrical Symbol Legend											
Lighting Symbols  Lighting Fixtures, Typical, Rectangular (Various Symbols)  Lighting Fixtures, Typical, Round (Various Symbols) Center dot indicates pendant. Chevron indicates wall wash.  Wall-mounted fixtures, Typical (Various Symbols)  Strip Fixture  Directional Light, Track Light, Flood Light  Linear Light, Tape Light  Emergency Lighting Unit, Ceiling-Mounted, Integral Battery  Emergency Lighting Unit, Ceiling-Mounted, Remote Battery  Emergency Lighting Unit, Wall-Mounted, Integral Battery  Emergency Lighting Unit, Wall-Mounted, Remote Battery  Exit Light, Ceiling-Mounted. Shading and arrows indicate faces and directional chevrons.  Exit Light, Wall-Mounted. Shading and arrows indicate faces and directional chevrons.  Exit/ELU Combo  Pole/Area Lights  Post-Top Area Light  Bollard Light  Hatch indicates light on an emergency or life safety circuit.  Single-Pole Switch  Two-Pole Switch  Three-Pole Switch Switch Modifiers: <table> <tr> <td>3: 3-Way</td><td>OS: Occupancy Sensor</td></tr> <tr> <td>4: 4-Way</td><td>VS: Vacancy Sensor</td></tr> <tr> <td>K: Keyed</td><td>CT: Above-Counter</td></tr> <tr> <td>D: Dimming</td><td>LV: Low-Voltage</td></tr> <tr> <td>T: Timer</td><td>M: Motor-Rated</td></tr> </table>  Lighting Contactor  Lighting Control Panel  Occupancy Sensor  Daylight Harvesting Sensor Lighting Tags  Top Value: Fixture Type ID (<u>Underlined</u>) Bottom Value, Lowercase Letter: Switch ID Bottom Value, Number(s): Circuit Number Bottom Value, Uppercase Letter(s): Panel Absence of a switch designation on a lighting fixture indicates fixture is controlled by the only switch in the space. An "X" in place of the switch designation indicates unswitched.  Switch ID indicated by a lowercase letter. Switch IDs are unique per space. A switch with an ID "a" controls all devices within the space in which it is located tagged with "a". A switch without a tagged ID controls all lighting fixtures within a space. ID tags may be used on control devices other than switches, such as occupancy sensors or contactors.	3: 3-Way	OS: Occupancy Sensor	4: 4-Way	VS: Vacancy Sensor	K: Keyed	CT: Above-Counter	D: Dimming	LV: Low-Voltage	T: Timer	M: Motor-Rated	Power Symbols  Wall Ceiling Floor  Simplex Receptacle  Duplex Receptacle  Quadruplex Receptacle  Special Receptacle, Type as Indicated Receptacle Modifiers: #F: Height AFF (to center) CT: Device Mounted Above Counter Top IG: Isolated Ground H: Device Mounted Horizontally WP: Weatherproof In-Use Cover  Half shading indicates split (typically switched)  Outside shading indicates tamperproof device  Center shading indicates GFI type  Full shading indicates tamperproof GFI type  Multioutlet Assembly Filled squares indicate 120V outlet Open squares indicate with USB  Cord Reel, Device Varieties  Drop Cord, Device Varieties  Junction Box  Floor Box, see schedule for type  Emergency Power Off  Door Opener Push Plate  Power Meter  Safety Switch, Fused  Safety Switch, Unfused  Motor Starter  Combination Starter/Disconnect  Contactor Power Device and Equipment Tags LPIA-1: Electrical Device/Tags: Uppercase letter(s) indicates Panel ID and circuit number. Lowercase letter indicates designation of controlling switch (where applicable). Equipment Tags: Equipment ID is indicated by an underlined tag adjacent to the equipment. See the equipment connection schedule for description, electrical requirements, and panel and circuit number. Symbols/graphic appearance of equipment varies.  XX-1 Wiring  Solid, aored lines connecting equipment, devices, or futures indicate unswitched power circuiting. Wires are only intended to indicate to what circuit devices are connected. Actual connections, circuit routing, installation, junction boxes, etc. shall be field-determined by the contractor.  Dashed, aored lines connecting equipment, devices, or futures indicate switched power.  Home run to branch circuit panelboard. The equipment name and circuit number(s) are indicated, separated by a hyphen. Home runs are only intended to indicate panel and circuit number. Actual homerun location shall be field-determined by the contractor. Power Distribution Equipment  SB1  MDB  HPIA  LPIA Hatched fill indicates distribution panel or switchboard. Solid fill indicates branch panel or load center. Dashed box indicates code-required clearance (width and depth). Dots indicate front of recessed panel. Devices and fixtures are tagged with Panel and circuit number. For example, a device tagged with "A.1" indicates the device is circuitied to panel designated "A," circuit number 1.  Transformer: Typically transformer names begin with or contain the letter "T." See Single-Line Diagram for description and requirements. Telecom Symbols  Wall Ceiling Floor  Data Outlet  Telephone Outlet  Data/Telephone Outlet Outlet Modifiers: #F: Height AFF (to center) CT: Mounted Above Counter Top  Wireless Access Point  TV Outlet
3: 3-Way	OS: Occupancy Sensor										
4: 4-Way	VS: Vacancy Sensor										
K: Keyed	CT: Above-Counter										
D: Dimming	LV: Low-Voltage										
T: Timer	M: Motor-Rated										

Electrical Sheet List	
E0.1	ELECTRICAL TITLE SHEET
E1.1	LIGHTING PLANS
E1.2	POWER PLANS
E6.1	ELECTRICAL SCHEDULES AND DETAILS

GENERAL ELECTRICAL NOTES

A. COORDINATE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF PLUMBING AND MECHANICAL INSTALLATION. CONDUITS SHALL BE ROUTED THROUGH JOIST WEBS WHERE POSSIBLE.

B. VERIFY EXACT PLACEMENT OF ALL LUMINAIRES, DEVICES, AND EQUIPMENT SHOWN ON THE ELECTRICAL CONSTRUCTION DOCUMENTS WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS PRIOR TO FINAL PLACEMENT.

C. ELECTRICAL EQUIPMENT AND DEVICES SHALL BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.

D. DEFINITION OF TERMS

"SHALL": ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION.

"FURNISH": CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING.

"INSTALL": CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND CONSTRUCTION EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE AND TEST EQUIPMENT FURNISHED BY HIM OR OTHERS.

"PROVIDE": CONTRACTOR SHALL FURNISH AND INSTALL.

MOUNTING HEIGHT REQUIREMENTS:

UNLESS SPECIFICALLY INDICATED OTHERWISE, THE FOLLOWING MOUNTING HEIGHTS SHALL APPLY:

• RECEPTACLES	16" TO BOTTOM
• TELECOMMUNICATIONS OUTLETS	16" TO BOTTOM
• TELEVISION OUTLETS	72" TO TOP
• LIGHT SWITCHES	48" TO TOP
• THERMOSTATS	48" TO TOP
• HUMIDISTATS	48" TO TOP
• FIRE ALARM PULL STATIONS	48" TO TOP
• FIRE ALARM NOTIFICATION DEVICES	LOWER OF: 88" TO BOTTOM OR TOP AT 6' BELOW CEILING

GENERAL LIGHTING NOTES

- A. THE CIRCUITING OF ALL LUMINAIRES HAS BEEN SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL FOLLOW THIS CIRCUITING LAYOUT.
- B. COUNT ALL EMERGENCY LIGHTS, NIGHT LIGHTS AND EXIT LIGHTS TO AN UNSWITCHED HOT CONDUCTOR, UPSTREAM OF ALL CONTROLS.
- C. DIRECT CURRENT POWER WIRING FROM EXIT SIGNS TO REMOTE EXTERIOR EMERGENCY LIGHTING HEADS SHALL BE #10 IN 1/2" CONDUIT UNLESS NOTED OTHERWISE.
- D. IN AREAS WHERE CEILING MOUNTED OCCUPANCY SENSORS ARE USED FOR LIGHTING CONTROL, IN CONJUNCTION WITH WALL SWITCHES, OCCUPANCY SENSORS AND POWER PACK SHALL SWITCH OFF. GFG SHALL BE WIRED IN SERIES WITH WALL SWITCHES TO PROVIDE OVERRIDE "OFF" CONTROL FOR LIGHTS.
- E. CONTROL WIRING FOR 0-10 vdc DIMMING SIGNAL CIRCUITS SHALL BE NEC CLASS 1, ROUTED IN SAME RACEWAY/CABLE WITH LIGHTING CIRCUIT POWER CONDUCTORS. WIRING SHALL CONSIST OF #2 #16 SOLID CU THIN OR T+FN CONDUCTORS. CONDUCTOR INSULATION COLOR SHALL BE VIOLET (+Vdc) AND PINK (-Vdc). CONDUCTOR SHALL BE #16 FOR FINAL & POWER CONNECTION WHP. LUMINAIRE, UTILIZE "LUMINARY" TYPE MC-CABLE WITH INTEGRAL CLASS 1 CONTROL WIRING.

GENERAL POWER NOTES

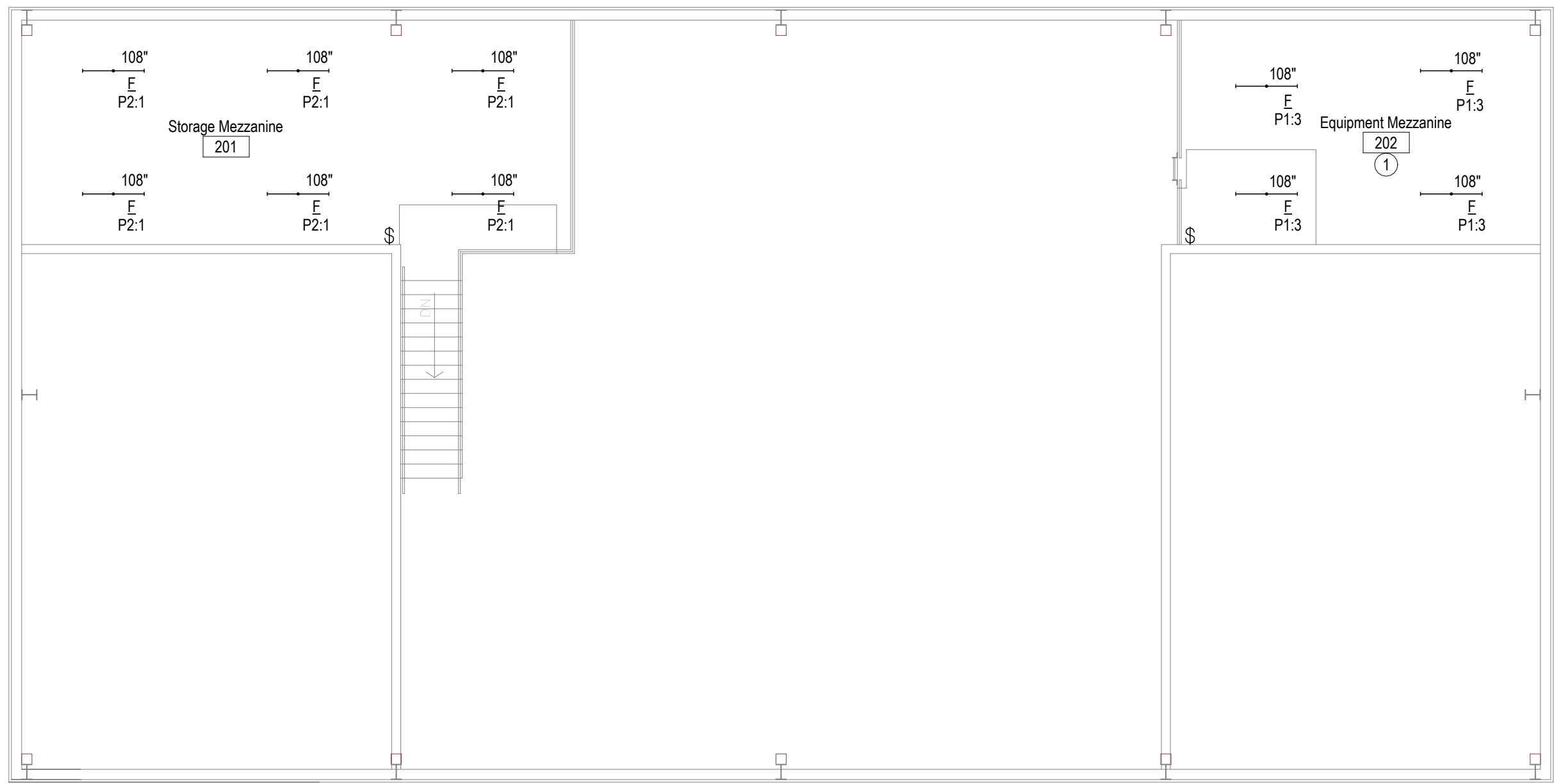
A. THE CIRCUITING OF ALL DEVICES HAS BEEN SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL FOLLOW THIS CIRCUITING LAYOUT.

B. VERTICAL LOCATIONS OF HVAC AND PLUMBING EQUIPMENT WITH THE GENERAL CONTRACTOR AND ASSOCIATED SUBCONTRACTORS. COORDINATE CONDUIT SUB-UP AND POWER CONNECTIONS PRIOR TO COMMENCING RUN-IN WORK. ELECTRICAL DEVICES (DISCONNECTS, RECEPTACLES, ETC.) INSTALLED ON EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. FIELD COORDINATE EXACT DEVICE MOUNTING LOCATIONS PRIOR TO INSTALLATION.

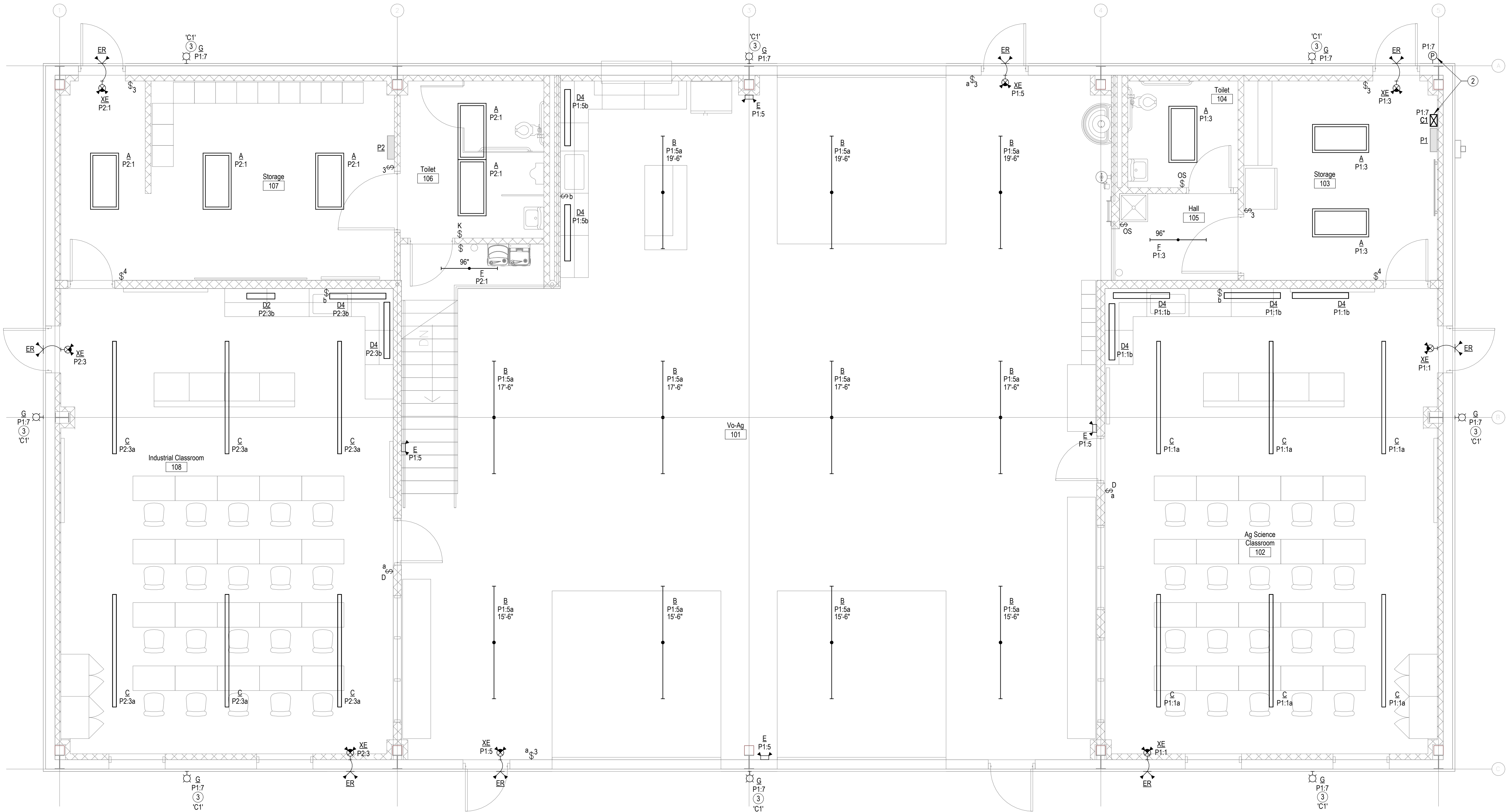
C. WALL MOUNTED HVAC CONTROL DEVICES (THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, CO₂ SENSORS, ETC) SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. UNLESS NOTED OTHERWISE, ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE GANG WALL BOX WITH 1/2" CONDUIT SIZED OUT TO ABOVE, REMOVABLE CEILING WITH HOOKS ON BUSINESS AND PULLSTRINGS TO ABOVE. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF DEVICES.

GENERAL TELECOMMUNICATIONS NOTES

- A. PROVIDE THE FOLLOWING RACEWAY ROUTE-IN FOR TELECOMMUNICATIONS OUTLET TYPES INDICATED:
 - WALL PHONE OUTLET: 2"x4"x2-1/8" DEEP DEVICE BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
 - PHONE/DATA OUTLET: 4-11/16" SQUARE x 3-1/4" DEEP BOX (RACO #260 OR EQUIVALENT) WITH 1-5/8" DEVICE RING AND 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
 - TV OUTLET: 4-11/16" SQUARE x 3-1/4" DEEP BOX (RACO #260 OR EQUIVALENT) WITH 2" DEVICE RING AND (1) 2" CONDUIT TO ABOVE ACCESSIBLE CEILING.
- B. PROVIDE NYLON BUSHINGS FOR ALL CONDUIT ENDS NOT CONNECTED TO A BOX OR FITTING TO PROTECT CABLES FROM DAMAGE.
- C. CONDUITS FROM EACH OUTLET SHALL BE STUBBED 2" ABOVE THE FINISHED CEILINGS IN AREAS WITH ACCESSIBLE TILES. IN AREAS WITH OPEN CEILINGS, STUB CONDUIT INTO STRUCTURAL JOIST SPACE.
- D. PROVIDE BLANK, STAINLESS STEEL, COVER PLATES FOR ALL OUTLETS NOT ACTIVATED BY OWNER.
- E. PROVIDE SUITABLE PULL STRING IN ALL CONDUITS.
- F. ALL TELECOMMUNICATIONS AND AV CABLEING, JACKS, CONNECTORS, TERMINATIONS, EQUIPMENT AND TESTING SHALL BE PROVIDED BY OWNER.



2
E1.1 MEZZANINE LIGHTING PLAN
1/8" = 1'-0"



1
E1.1 MAIN LEVEL LIGHTING PLAN
1/4" = 1'-0"

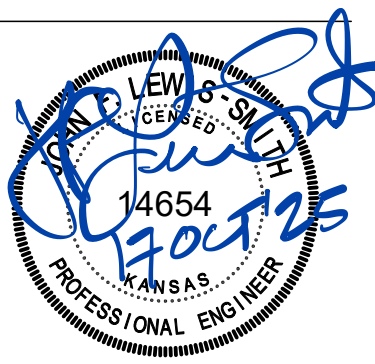
- NOTES BY SYMBOL**
- 1 EXACT MOUNTING LOCATIONS OF LIGHT FIXTURES MAY BE ADJUSTED AS NEEDED TO COORDINATE WITH PIPING AND DUCTWORK INSTALLATION.
 - 2 CONTACTOR AND EXTERIOR PHOTOCELL FOR CONTROL OF EXTERIOR WALL PACK LIGHTING. SEE DETAIL ON SHEET E6.1.
 - 3 ROUTE CIRCUIT THROUGH CONTACTOR INDICATED.

USD 419 CANTON-GALVA SCHOOLS

JR/SR HIGH SCHOOL

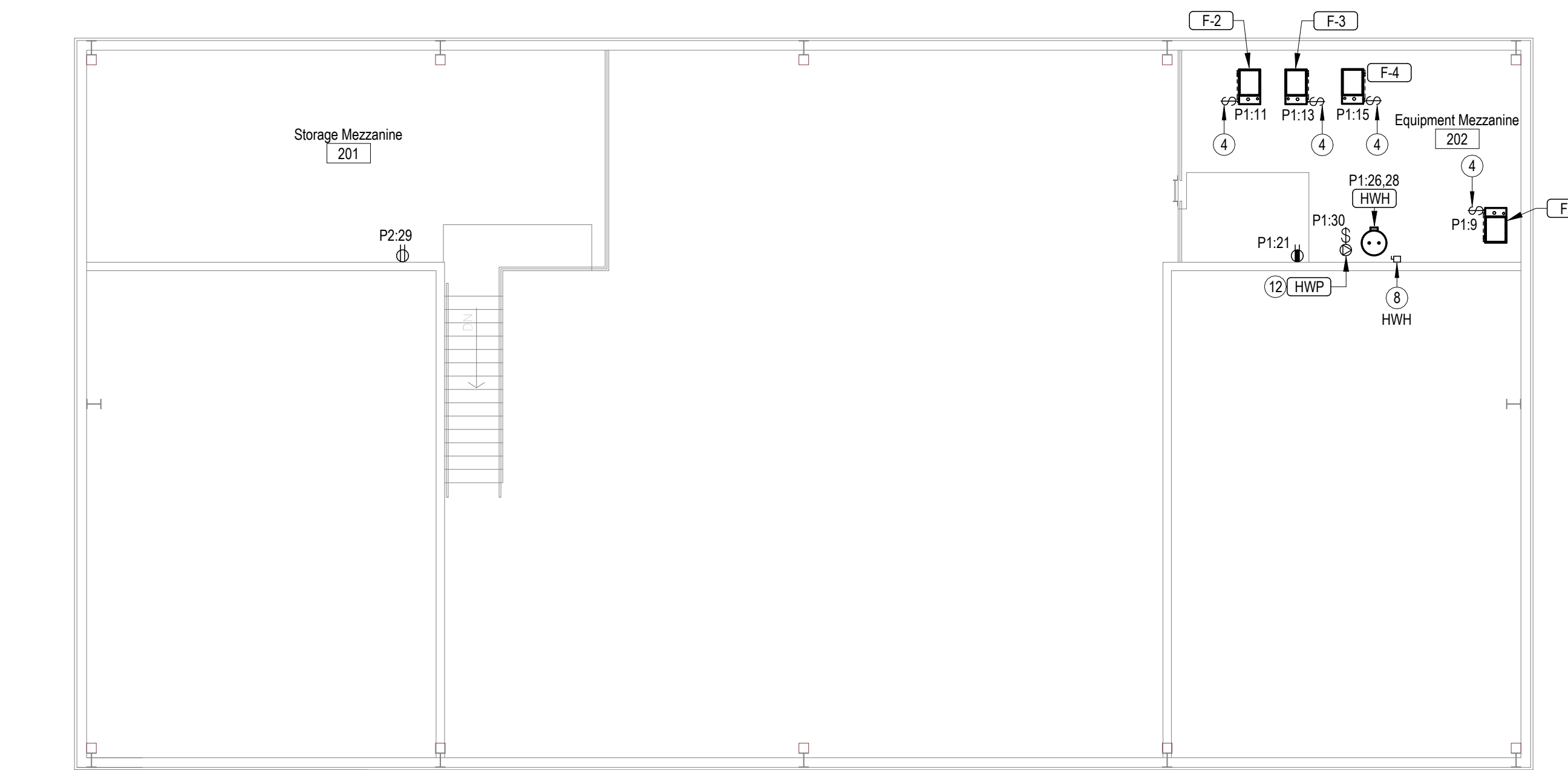
CANTON,

KANSAS



REVISIONS:	
DATE:	10-17-2025
JOB:	24-3458
SHEET NO.:	

E1.1



- NOTES BY SYMBOL
- 1

COORDINATE EXACT MOUNTING LOCATION OF DRINKING FOUNTAIN RECEPTACLE WITH PLUMBING CONTRACTOR. WIRE FROM LOAD SIDE OF ADJACENT GFI RECEPTACLE TO PROVIDE GFI PROTECTION FOR DRINKING FOUNTAIN RECEPTACLE.
- 2

60A/2P NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. INSTALL AT 4'-0" AFF TO TOP. MAKE FINAL CONNECTION TO EQUIPMENT IN 'LFMC' RACEWAY.
- 3

SWITCH EXHAUST FAN WITH ROOM LIGHTS.
- 4

PROVIDE 20A/1P SNAP SWITCH AND MAKE FINAL FLEXIBLE CONNECTION TO EQUIPMENT.
- 5

PROVIDE 4x8x3/4" ACX FIRE RETARDANT PLYWOOD SHEET INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF. PLYWOOD SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED, OR STAINLESS STEEL HARDWARE WITH A FLAT HEAD. FINISHED INSTALLATION SHALL HAVE FLUSH APPEARANCE WITH COUNTERSUNK SCREW HEADS TO PREVENT SPLITTING OF THE PLYWOOD. DRYWALL SCREWS ARE NOT ACCEPTABLE. PAINT WITH TWO COATS OF LIGHT GRAY FIRE RETARDANT SEALER PRIOR TO INSTALLATION OF ANY EQUIPMENT.
- 6

TELECOMMUNICATIONS GROUND BAR SHALL BE 13-1/4"W x 2"H x 1/4" THICK ELECTRO-TIN PLATED COPPER BUS BAR, COMPLETE WITH INSULATED STAND-OFFS AND STAINLESS STEEL BRACKETS, ERICO #TGBA14L06PT OR EQUAL. MOUNT AT 18" AFF, AND PROVIDE (1) #6 CU GROUNDING CONDUCTOR TO EQUIPMENT GROUND BUS OF PANEL 'P1'. ALL CONNECTIONS TO GROUND BAR SHALL BE MADE USING COMPRESSION TYPE LUGS.
- 7

COORDINATE EXACT LOCATION OF WELDING OUTLET WITH OWNER PRIOR TO COMMENCING ROUGH-IN.
- 8

30A/2P NON-FUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. INSTALL AT 6'-0" AFF TO TOP. MAKE FINAL CONNECTION TO EQUIPMENT IN 'FMC' RACEWAY.

- NOTES BY SYMBOL
- 9

PROVIDE 120V CIRCUIT TO OVERHEAD DOOR OPERATOR. COORDINATE REQUIREMENTS WITH DOOR INSTALLER.
- 10

CONDUIT BELOW GRADE FOR NEW SERVICE LATERAL FROM EXISTING UTILITY POLE LOCATED OFF THE SOUTHEAST CORNER OF NEW BUILDING. SEE 'POWER RISER DIAGRAM' ON SHEET E6.1 AND INSTALL IN TRENCH PER SECTION 'A' OF 5.E6.1.
- 11

PROVIDE (2) 2" CONDUITS STUBBED UP AT TELECOM BOARD AND ROUTED BELOW GRADE TO EXISTING SCHOOL BUILDING FOR OWNER PROVIDED COMMUNICATIONS CABLING. VERIFY TERMINATION POINT AT EXISTING BUILDING WITH DISTRICT REPRESENTATIVE. INSTALL IN TRENCH PER SECTION 'B' OF 5.E6.1.
- 12

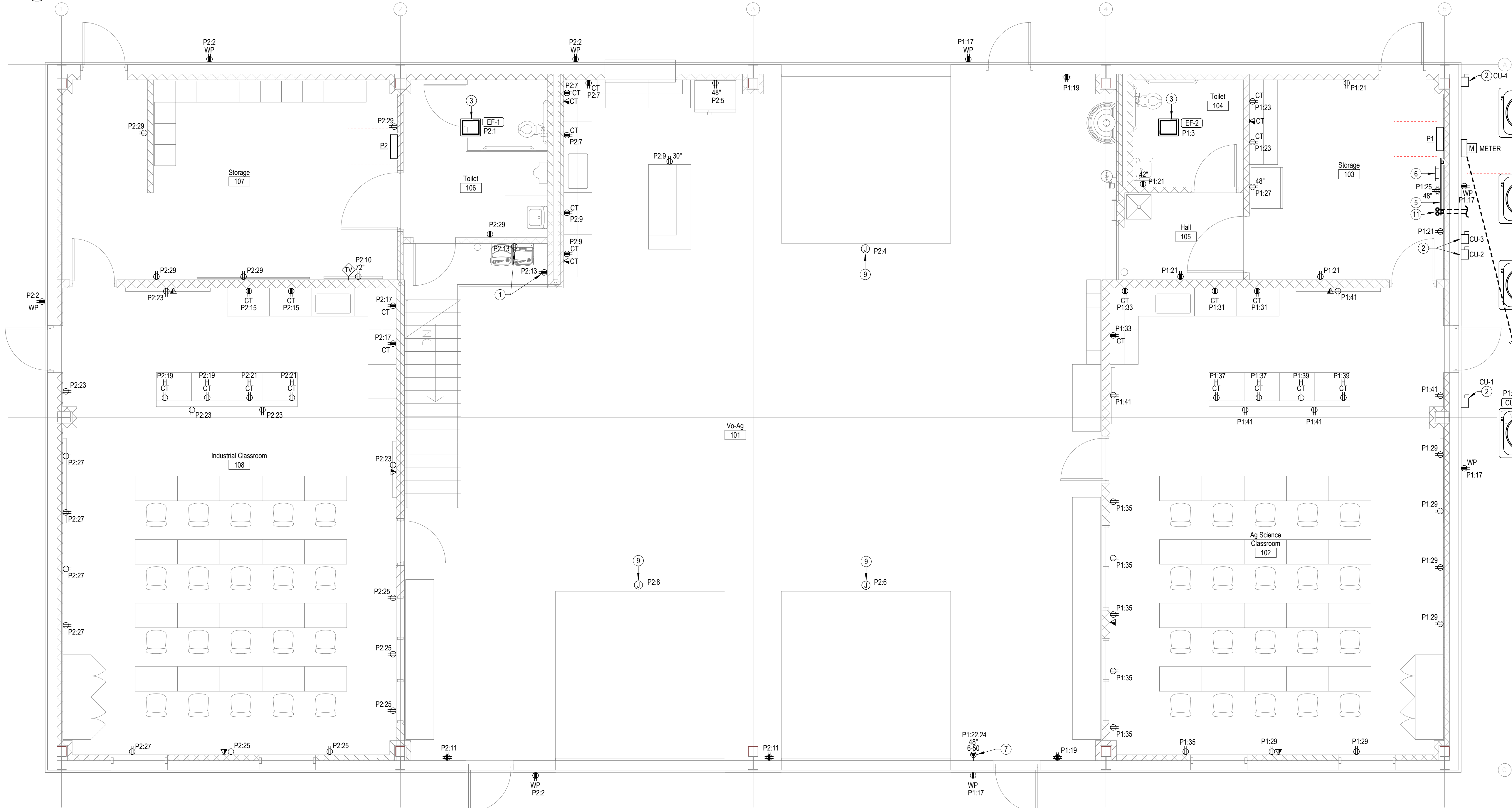
ROUTE 120V CIRCUIT FOR HOT WATER RECIRCULATION PUMP THROUGH ADJACENT AQUASTAT. PROVIDE 20A/1P SNAP SWITCH ADJACENT TO PUMP AND MAKE FINAL FLEXIBLE CONNECTION. COORDINATE WITH PLUMBING CONTRACTOR.

2

E1.2

MEZZANINE POWER PLAN

1/8" = 1'-0"



1

E1.2

MAIN LEVEL POWER PLAN

1/4" = 1'-0"

REVISIONS:

DATE: 10-17-2025

JOB: 24-3458

SHEET NO.:

LIGHT FIXTURE SCHEDULE

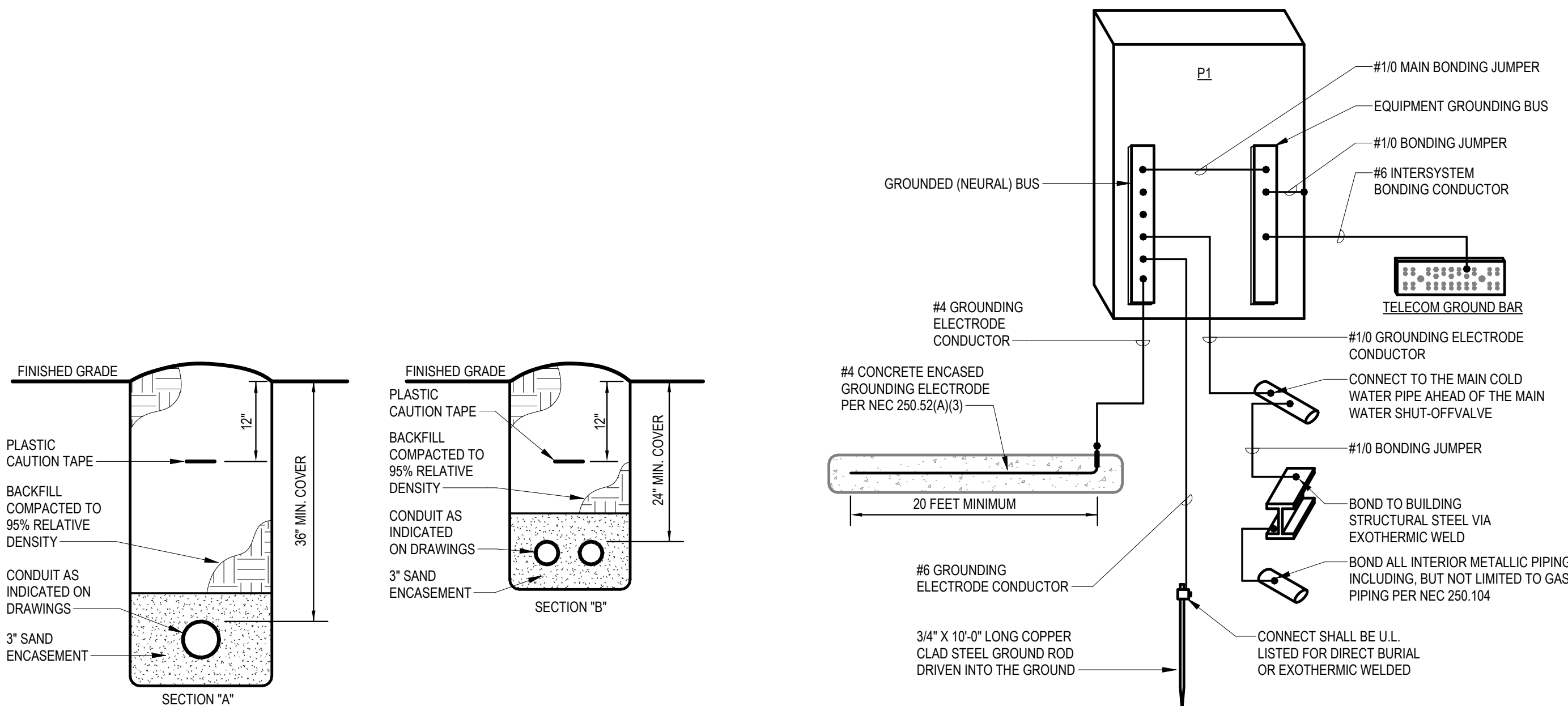
GENERAL: *ALL LEDS SHALL BE 4000K CORRELATED COLOR TEMPERATURE, MINIMUM 80 CRI
*ALL LED FIXTURES SHALL ADHERE TO LM79 AND LM80 STANDARDS

NOTES: 1. PROVIDE FIXTURE WITH INTEGRAL EMERGENCY BATTERY AND CHARGER WITH SELF-DIAGNOSTIC/SELF-TESTING ELECTRONICS.
2. FIXTURE SHALL BE CAPABLE OF WALL OR CEILING MOUNT APPLICATIONS AND SHALL HAVE BREAK-OUT DIRECTIONAL CHEVRONS.
3. INSTALL FIXTURE PER "RECESSED LUMINAIRE SUPPORT" DETAIL, THIS SHEET.
4. SUSPEND FIXTURE WITH AIRCRAFT CABLE TO HEIGHT INDICATED ON SCHEDULE OR NOTED ON PLANS. UTILIZE WHITE 'SO' CORD FOR WIRING CONNECTION TO TYPE 'C' FIXTURES. WHERE SUSPENDING FROM ROOF STRUCTURE, ATTACH STEEL CHANNEL TO ROOF PURLINS.
5. FIXTURE SHALL BE CAPABLE OF OPERATION IN TEMPERATURES RANGING FROM -40F THROUGH 104F.
6. U.L. LISTED FOR WET LOCATION.....

MARK	MANUFACTURER	MODEL NUMBER	WATTAGE	LUMEN OUTPUT	DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
A	PACLIGHTS	FPNB3-24D	40 W	5000 lm	0-10V DIMMING TO 10%	LAY-IN	WHITE	2X4 LED FLAT PANEL TROFFER WITH SELECTABLE CCT AND LUMEN OUTPUT	3
B	PACLIGHTS	FSLA/3-8D-80/70/60-8CT-AC	70 W	9600 lm	0-10V DIMMING TO 10%	SUSPENDED	WHITE	8" STANDARD STRIP WITH CURVED FROSTED ACRYLIC LENS, SELECTABLE CCT AND LUMEN OUTPUT	4
C	LEDALITE	2901L94040QN08DE1NNWA3	84 W	8000 lm	0-10V DIMMING TO 1%	SUSPENDED AT 12'-0" AFF	WHITE	8" LINEAR DIRECT, EXTRUDED ALUMINUM HOUSING, SYMMETRICAL BATWING DISTRIBUTION; ACRYLIC LENS	4
D2	ADVANTAGE ENVIRONMENTAL LIGHTING	MEM24401000LFGM	7 W	1000 lm	0-10V DIMMING TO 10%	SURFACE	WHITE	24" SOLID FRONT UNDERCABINET LIGHT WITH FROSTED SATIN LENS	--
D4	ADVANTAGE ENVIRONMENTAL LIGHTING	MEM48402000LFGM	14 W	2000 lm	0-10V DIMMING TO 10%	SURFACE	WHITE	48" SOLID FRONT UNDERCABINET LIGHT WITH FROSTED SATIN LENS	--
E	LIFE SAFETY LIGHTING	LSLEDXR65	12 W	1200 lm	--	WALL AT 10'-0" AFF	WHITE	TWIN HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY BACKUP & (2) 6W LED HEADS	--
ER	LIFE SAFETY LIGHTING	LSRHLED-2-SDT-WP-MV	2 W	220 lm	--	WALL AT 7'-6" AFF	GRAY	DUAL REMOTE WEATHERPROOF EMERGENCY LIGHTING HEADS	6
F	PACLIGHTS	FSLA/3-4D-40/30/20-8CT-AC	30 W	4100 lm	0-10V DIMMING TO 10%	SUSPENDED	WHITE	4" STANDARD STRIP WITH CURVED FROSTED ACRYLIC LENS, SELECTABLE CCT AND LUMEN OUTPUT	4
G	GARCO	PWS-C-A03-840-2-UNV-010V-BK	51 W	5310 lm	0-10V DIMMING TO 10%	WALL AT 14'-0" AFF	BLACK	DIE-CAST ALUMINUM WALL PACK, IES TYPE II DISTRIBUTION, COMFORT OPTICS	5, 6
XE	LIFE SAFETY LIGHTING	LSLEDXCU-2-R-W-RC/SDT	4 W	200 lm	--	WALL AT 7'-6" AFF	WHITE	COMBINATION EXIT SIGN/TWIN HEAD EMERGENCY LIGHT WITH REMOTE BATTERY CAPACITY	1, 2

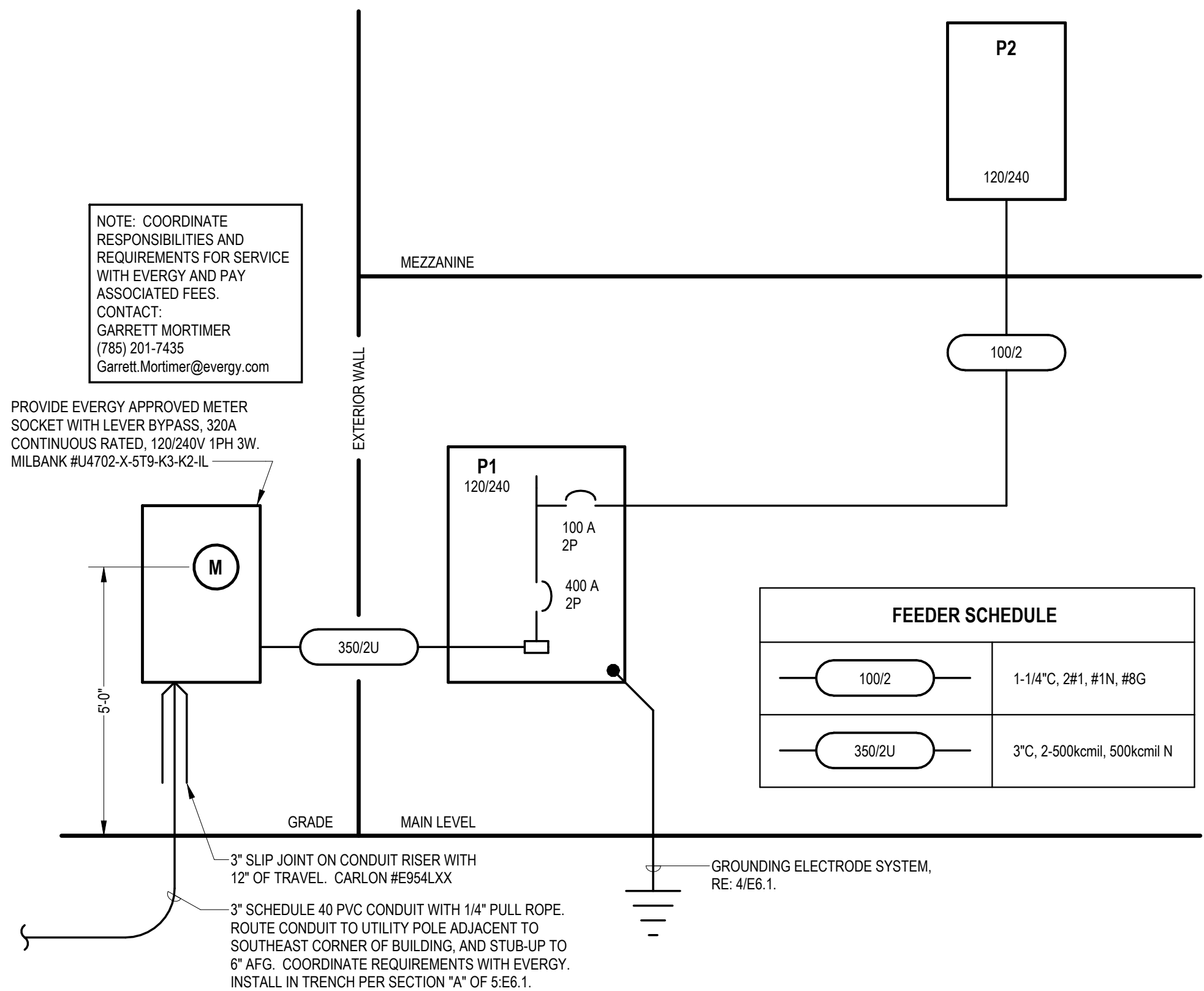
Breaker Function Schedule

#	For any number, see panel schedule footer note
A	Arc-Fault Interrupter (AFCI) Protection
EM	Provide identification per NEC 700.12(I)(2)(4)
G	Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA)
GE	Ground-Fault Protection for Equipment (30 mA)
H	Breaker hasp to prevent unintentional opening
HR	Heating, Air Conditioning and Refrigeration Rated (HACR) Breaker
L	Lockable open according to NEC 110.25



5 CONDUIT TRENCH SECTIONS
E6.1 NO SCALE

4 GROUNDING ELECTRODE SYSTEM DIAGRAM
E6.1 NO SCALE



3 POWER RISER DIAGRAM
E6.1 NO SCALE

Designation: P1

Installed Location: 103 STORAGE
Voltage: 120/240-1Ph-3W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 400
MCB Amps: 400

SCCR/AIC: 10.0 kA
Mains FN/Note: -

Features & Modifications: PANEL SHALL BE U.L. LISTED FOR USE AS SERVICE EQUIPMENT; PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION PER SPECIFICATIONS

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
P1-1	LTG: AG SCIENCE CLASSROOM 102	1/2"C, 1#12, #12N, #12G	20		636 7575			100	1-1/4"C, 2#1, #1N, #8G	PANEL "P2"	P1-2
P1-3	LTG: STOR 103, HALL, TLT 104, MEZZ 202	1/2"C, 1#12, #12N, #12G	20		329 6793						P1-4
P1-5	LTG: VO-AG ROOM 101	1/2"C, 1#12, #12N, #12G	20		954 2148						P1-6
P1-7	LTG: EXTERIOR BLDG	1/2"C, 1#12, #12N, #12G	20		473 2148		HR	40	1/2"C, 2#8, #10G	CONDENSING UNIT 'CU'-1	P1-8
P1-9	FURNACE F-1	1/2"C, 1#12, #12N, #12G	15		1087 2148		HR	40	1/2"C, 2#8, #10G	CONDENSING UNIT 'CU'-2	P1-10
P1-11	FURNACE F-2	1/2"C, 1#12, #12N, #12G	15		1087 2148		HR	40	1/2"C, 2#8, #10G	CONDENSING UNIT 'CU'-3	P1-12
P1-13	FURNACE F-3	1/2"C, 1#12, #12N, #12G	15		1087 2148		HR	40	1/2"C, 2#8, #10G	CONDENSING UNIT 'CU'-3	P1-14
P1-15	FURNACE F-4	1/2"C, 1#12, #12N, #12G	15		1087 2148		HR	40	1/2"C, 2#8, #10G	CONDENSING UNIT 'CU'-3	P1-16
P1-17	RCPT: EAST EXTERIOR	1/2"C, 1#12, #12N, #12G	20		720 2148		HR	40	1/2"C, 2#8, #10G	CONDENSING UNIT 'CU'-4	P1-18
P1-19	RCPT: VO-AG 101 EAST	1/2"C, 1#12, #12N, #12G	20		720 2148		HR	40	1/2"C, 2#8, #10G	CONDENSING UNIT 'CU'-4	P1-20
P1-21	RCPT: STOR 103, HALL, TLT 104, MEZZ 202	1/2"C, 1#12, #12N, #12G	20		1080 4900			50	3/4"C, 2#8, #10G	WELDER OUTLET	P1-22
P1-23	RCPT: STORAGE 103 COUNTER	1/2"C, 1#12, #12N, #12G	20		360 4900						P1-24
P1-25	RCPT: TELECOM BOARD	1/2"C, 1#12, #12N, #12G	20	H	500 2250			30	1/2"C, 2#10, #10G	WATER HEATER	P1-26
P1-27	RCPT: STORAGE 103 FLOWER COOLER	1/2"C, 1#12, #12N, #12G	20		800 2250						P1-28
P1-29	RCPT: AG CLASSRM 102 EAST	1/2"C, 1#12, #12N, #12G	20		1080 132			15	1/2"C, #12, #12N, #12G	HOT WATER RECIRC PUMP "HWP"	P1-30
P1-31	RCPT: AG CLASSRM 102 CNTR	1/2"C, 1#12, #12N, #12G	20		360 0			20	--	Spare	P1-32
P1-33	RCPT: AG CLASSRM 102 CNTR	1/2"C, 1#12, #12N, #12G	20		360 0			20	--	Spare	P1-34
P1-35	RCPT: AG CLASSRM 102 WEST	1/2"C, 1#12, #12N, #12G	20		1080 0			20	--	Spare	P1-36
P1-37	RCPT: AG CLASSRM 102 ISLAND COUNTER	1/2"C, 1#12, #12N, #12G	20		360 0			20	--	Spare	P1-38
P1-39	RCPT: AG CLASSRM 102 ISLAND COUNTER	1/2"C, 1#12, #12N, #12G	20		360 --			--	--	Spare	P1-40
P1-41	RCPT: AG CLASSRM 102 KNEE WALL	1/2"C, 1#12, #12N, #12G	20		900 --			--	--	Spare	P1-42
Connected Load:			32213 VA		29191 VA						
Connected Amps:			268 A		243 A						

Designation: P2

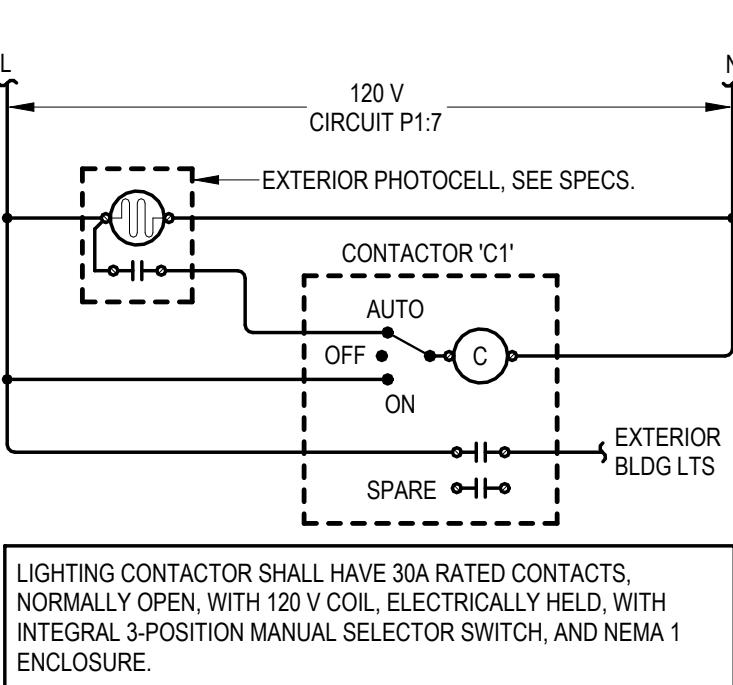
Installed Location: STORAGE 107
Voltage: 120/240-1Ph-3W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 100
MCB Amps: MLO

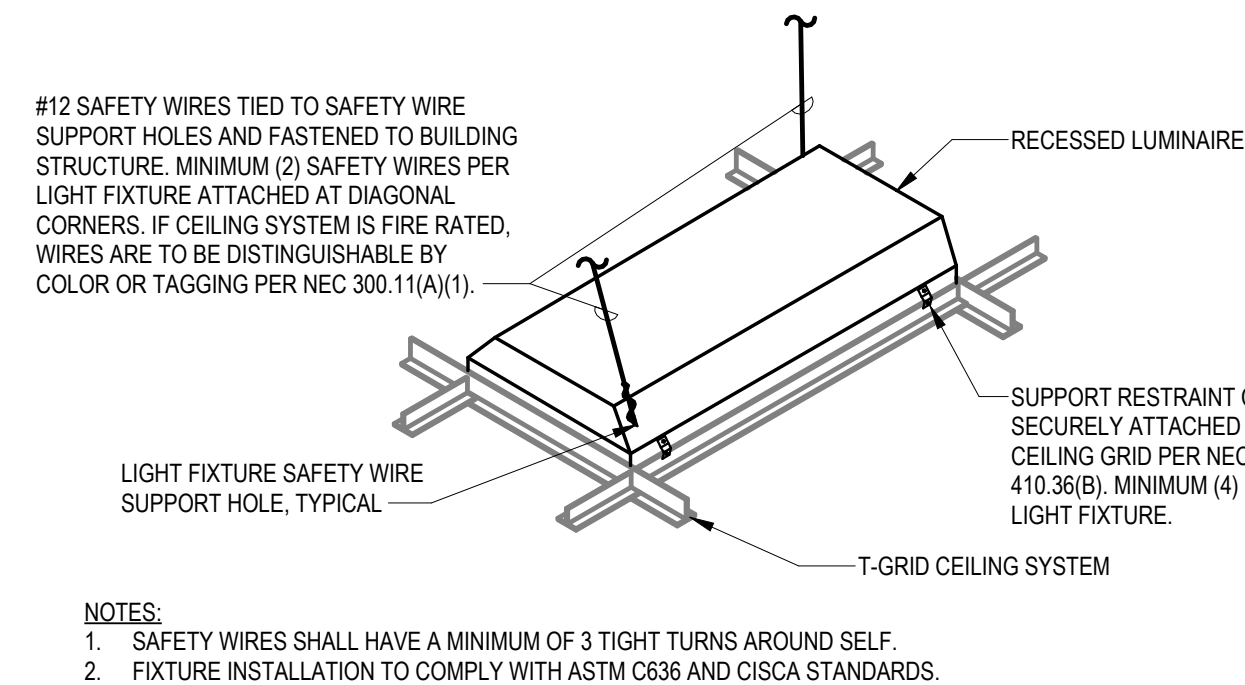
SCCR/AIC: 10.0 kA
Mains FN/Note: -

Features & Modifications: PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION PER SPECIFICATIONS

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
P2-1	LTG: STOR 107, TLT 106, MEZZ 201	1/2"C, 1#12, #12N, #12G	20		485 720			20	1/2"C, 1#12, #12N, #12G	RCPT: WEST EXTERIOR	P2-2
P2-3	LTG: INDUSTRIAL CLASSROOM 108	1/2"C, 1#12, #12N, #12G	20		613 1200			20	1/2"C, 1#12, #12N, #12G	NORTH OVERHEAD DOOR	P2-4
P2-5	RCPT: VO-AG REFRIGERATOR	1/2"C, 1#12, #12N, #12G	20		850 1200			20	1/2"C, 1#12, #12N, #12G	SOUTHEAST OVERHEAD DOOR	P2-6
P2-7	RCPT: VO-AG 101 COUNTER	1/2"C, 1#12, #12N, #12G	20		540 1200			20	1/2"C, 1#12, #12N, #12G	SOUTHWEST OVERHEAD DOOR	P2-8
P2-9	RCPT: VO-AG 101 COUNTER	1/2"C, 1#12, #12N, #12G	20		540 250			20	1/2"C, 1#12, #12N, #12G	RCPT: STORAGE 107 TV	P2-10
P2-11	RCPT: VO-AG 101 SW	1/2"C, 1#12, #12N, #12G	20		720 0			20	--	Spare	P2-12
P2-13	RCPT AND DRINKING FOUNTAIN VO-AG 101	1/2"C, 1#12, #12N, #12G	20		830 0			20	--	Spare	P2-14
P2-15	RCPT: INDUST. CLASSRM 108 COUNTER	1/2"C, 1#12, #12N, #12G	20		360 0			20	--	Spare	P2-16
P2-17	RCPT: INDUST. CLASSRM 108 COUNTER	1/2"C, 1#12, #12N, #12G	20		360 0			20	--	Spare	P2-18
P2-19	RCPT: INDUST. CLASSRM 108 ISLAND ...	1/2"C, 1#12, #12N, #12G	20		360 --			--	--	Spare	P2-20
P2-21	RCPT: INDUST. CLASSRM 108 ISLAND ...	1/2"C, 1#12, #12N, #12G	20		360 --			--	--	Spare	P2-22
P2-23	RCPT: INDUST. CLASSRM 108 KNEE WALL	1/2"C, 1#12, #12N, #12G	20		900 --			--	--	Spare	P2-24
P2-25	RCPT: INDUST. CLASSRM 108 EAST	1/2"C, 1#12, #12N, #12G	20		900 --			--	--	Spare	P2-26
P2-27	RCPT: INDUST. CLASSRM 108 WEST	1/2"C, 1#12, #12N, #12G	20		900 --			--	--	Spare	P2-28
P2-29	RCPT: STOR 107, TLT 106, MEZZ 201	1/2"C, 1#12, #12N, #12G	20		1080 --			--	--	Spare	P2-30
Connected Load:			17575 VA		6793 VA						
Connected Amps:			63 A		57 A						



2 EXTERIOR LIGHTING CONTROL DIAGRAM
E6.1 NO SCALE



NOTES:
1. SAFETY WIRES SHALL HAVE A MINIMUM OF 3 TIGHT TURNS AROUND SELF.
2. FIXTURE INSTALLATION TO COMPLY WITH ASTM C636 AND CISC4 STANDARDS.

1 RECESSED LUMINAIRE SUPPORT
E6.1 NO SCALE