

Town / Village of Harrison

HARRISON RECREATION & COMMUNITY CENTER

270 Harrison Avenue
Harrison, NY 10528

ISSUED FOR BID - JUNE 05, 2024
UPDATED PER 3 ADDENDA
LAST DATED - OCTOBER 09, 2024

KG+D Project No.
2020-1005

DESIGN TEAM

PHASE 2 - CONFORMED DRAWING SET



ARCHITECT
KG+D Architects, PC

285 Main Street
Mount Kisco, NY 10549
phone: 914.666.5900

MEP ENGINEER
OLA Consulting Engineers, PC

50 Broadway - Suite 2
Hawthorne, NY 10532
phone: 914.747.2800

STRUCTURAL ENGINEER
The Di Salvo Engineering Group

93 Lake Ave - Suite 201
Danbury, CT 06810
phone: 203.490.4140

CIVIL ENGINEER
Creighton Manning

2 Winners Circle, Suite 201
Albany, NY 12205
phone: 518.446.0396

SPECIFICATION WRITER
Kalin Associates

21 Eliot Street
Natick, MA 01760
phone: 617.964.5477

DRAWING LIST

GENERAL	S312	FRAMING SECTIONS	A705	TYPICAL STAIR "C" DETAILS & TRACK GUARDRAIL DETAILS	P-502	PLUMBING RISER DIAGRAMS 2 OF 2	E-601	ELECTRICAL SCHEDULES
G000 COVER	S313	FRAMING SECTIONS	A801	WALL SECTIONS	P-701	PLUMBING DETAILS	E-602	ELECTRICAL SCHEDULES
G001 GENERAL INFORMATION	S314	FRAMING SECTIONS	A802	WALL SECTIONS	P-702	PLUMBING DETAILS	E-701	ELECTRICAL DETAILS
G002 ACCESSIBILITY DIAGRAMS	S401	MASONRY SCHEDULE AND TYPICAL DETAILS	A803	WALL SECTIONS			E-702	ELECTRICAL DETAILS
	S402	MASONRY TYPICAL DETAILS	A804	WALL SECTIONS	MECHANICAL		E-703	ELECTRICAL DETAILS
	S501	COLD-FORMED FRAMING SCHEDULES AND TYPICAL DETAILS	A805	CEILING DETAILS	M-001	MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES		
CODE COMPLIANCE			A901	WALL TYPES & GENERAL NOTES	M-201	MECHANICAL PARKING FLOOR PLAN	TELECOMMUNICATION	
CC001 CODE COMPLIANCE INFORMATION	ARCHITECTURAL		A902	FRAMING & PENETRATION DETAILS	M-202	MECHANICAL FIRST FLOOR PLAN	TC-000	TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND
CC002 CODE COMPLIANCE INFORMATION	A101	ARCHITECTURAL SITE PLAN	A911	DOOR SCHEDULE & TYPICAL DOOR DETAILS	M-203	MECHANICAL SECOND FLOOR PLAN	TC-100	TELECOMMUNICATION LOWER LEVEL DEVICE PLAN
	A201	LOWER LEVEL PARKING PLAN	A912	DOOR & FRAME TYPES	M-204	MECHANICAL ROOF PLAN	TC-101	TELECOMMUNICATION 1ST FLOOR DEVICE PLAN
SURVEY	A202	1st FLOOR PLAN	A913	WINDOW TYPES	M-301	MECHANICAL FIRST FLOOR PIPING PLAN	TC-102	TELECOMMUNICATION 2ND FLOOR DEVICE PLAN
V-001 TOPOGRAPHIC SURVEY 2023	A203	2nd FLOOR PLAN	A921	EXTERIOR DETAILS	M-302	MECHANICAL FIRST FLOOR PIPING PLAN	TC-200	TELECOMMUNICATION RISER DIAGRAMS
V-002 AS BUILT FOUNDATION AND TOPOGRAPHY	A204	ROOF LEVEL PLAN	A922	EXTERIOR DETAILS	M-303	MECHANICAL SECOND FLOOR PIPING PLAN	TC-300	
	A301	EXTERIOR ELEVATIONS	A930	1ST FLOOR PLAN DETAILS	M-304	MECHANICAL ROOF PIPING PLAN	TC-700	TELECOMMUNICATION TYPICAL DETAILS -1
CIVIL	A302	EXTERIOR ELEVATIONS	A931	TYPICAL ROOF SECTIONS & DETAILS	M-401	MECHANICAL SITE PLAN	TC-701	TELECOMMUNICATION TYPICAL DETAILS -1
C001 GENERAL NOTES	A303	BUILDING SECTIONS	A932	TYPICAL ROOF SECTIONS & DETAILS	M-501	MECHANICAL SCHEMATICS		
C100 EXISTING CONDITIONS & REMOVALS PLAN	A304	BUILDING SECTIONS			M-601	MECHANICAL EQUIPMENT NOTES & SCHEDULES	SECURITY	
C101 SITE LAYOUT PLAN	A401	ENLARGED PLANS & INTERIOR ELEVATIONS	FIRE PROTECTION		M-602	MECHANICAL EQUIPMENT NOTES & SCHEDULES	SE-000	COVER SHEET
C102 SITE GRADING PLAN	A402	LOCKER ROOM ENLARGED PLANS & INTERIOR ELEVATIONS	FP-001	FIRE PROTECTION SYMBOLS, ABBREVIATIONS & NOTES	M-603	MECHANICAL EQUIPMENT NOTES & SCHEDULES	SE-100	LOWER LEVEL SECURITY DEVICE PLAN
C103 EROSION & SEDIMENT CONTROL PLAN	A403	GYMNASIUM INTERIOR ELEVATIONS	FP-201	FIRE PROTECTION PARKING PLAN	M-701	MECHANICAL DETAILS	SE-101	1ST FLOOR SECURITY DEVICE PLAN
C104 SITE DETAILS	A404	GYMNASIUM INTERIOR ELEVATIONS	FP-202	FIRE PROTECTION 1ST FLOOR PLAN	M-702	MECHANICAL DETAILS	SE-102	2ND FLOOR SECURITY DEVICE PLAN
C105 WORK ZONE TRAFFIC CONTROL PLAN	A405	GYMNASIUM INTERIOR ELEVATIONS	FP-203	FIRE PROTECTION 2ND FLOOR PLAN	M-703	MECHANICAL DETAILS	SE-300	INTRUSION & ACCESS CONTROL CLOSET ELEVATION IDF-1
C200 UTILITY PLAN	A406	1ST FLOOR INTERIOR ELEVATIONS	FP-701	FIRE PROTECTION DETAILS 1 OF 3	M-704	MECHANICAL DETAILS	SE-301	CCTV CLOSET ELEVATION IDF-1
C400 CONSTRUCTION DETAILS	A410	2ND FLOOR ENLARGED PLANS & INTERIOR ELEVATIONS	FP-702	FIRE PROTECTION DETAILS 2 OF 3	ELECTRICAL		SE-500	SECURITY EQUIPMENT DETAIL DOOR TYPICALS-1
C401 CONSTRUCTION DETAILS		TOILET ROOMS AND PANTRY - ENLARGED PLANS & INTERIOR ELEVS	FP-703	FIRE PROTECTION DETAILS 3 OF 3	E-001	ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS	SE-501	SECURITY EQUIPMENT DETAIL DOOR TYPICALS-2
C402 CONSTRUCTION DETAILS	A440	MILLWORK DETAILS	FR-301	FIRE RADIO PARKING LEVEL PLAN	E-010	ELECTRICAL SITE PLAN	SE-701	BURGLAR & ACCESS CONTROL OVERALL SYSTEM INTERFACE ONE LINE DIAGRAM
C403 CONSTRUCTION DETAILS	A441	MILLWORK DETAILS	FR-302	FIRE RADIO FIRST FLOOR PLAN	E-201	ELECTRICAL PARKING REFLECTED CEILING PLAN	SE-704	SECURITY EQUIPMENT DETAIL 2 ACCESS DEVICE TYPICALS
	A501	LOWER LEVEL FINISH PLAN	FR-303	FIRE RADIO SECOND FLOOR PLAN	E-202	ELECTRICAL FIRST FLOOR REFLECTED CEILING PLAN	SE-705	SECURITY EQUIPMENT DETAIL 3 IDMA DEVICE TYPICALS
LANDSCAPE	A502	1st FLOOR PLAN FINISH PLAN	FR-304	FIRE RADIO ROOF PLAN	E-203	ELECTRICAL SECOND FLOOR REFLECTED CEILING PLAN	SE-705A	SECURITY EQUIPMENT DETAIL 4 BURGLAR DEVICE TYPICALS
L100 LANDSCAPE PLAN & SITEWORK DETAILS	A503	2nd FLOOR PLAN FINISH PLAN			E-301	ELECTRICAL PARKING FLOOR PLAN	SE-706	SECURITY EQUIPMENT DETAIL -5 CCTV TYPICALS
	A504	FINISH SCHEDULE	PLUMBING		E-302	ELECTRICAL FIRST FLOOR PLAN		
STRUCTURAL	A510	ACCENT WALL TILE PATTERNS	P-001	PLUMBING SYMBOLS, ABBREVIATIONS & NOTES	E-303	ELECTRICAL SECOND FLOOR PLAN	AUDIO & VISUAL	
S001 GENERAL STRUCTURAL NOTES	A530	SIGNAGE TYPES AND SCHEDULE	P-200A	PLUMBING PARKING FLOOR & FIRST FLOOR SLAB PLAN	E-304	ELECTRICAL ROOF PLAN	AV100	AVV SYSTEM NOTES & LEGEND
S100 LOWER LEVEL SLAB-ON-GRADE PLAN	A601	LOWER LEVEL REFLECTED CEILING PLAN	P-201	PLUMBING PARKING FLOOR PLAN	E-401	FIRE ALARM PARKING FLOOR PLAN	AVV101	AVV SYSTEM CONDUIT SYSTEM FLOOR PLANS
S101 FIRST FLOOR FRAMING AND SLAB-ON-GRADE PLAN	A602	1st FLOOR REFLECTED CEILING PLAN	P-202	PLUMBING FIRST FLOOR PLAN	E-402	FIRE ALARM FIRST FLOOR PLAN	AVV102	AVV SYSTEM CONDUIT SYSTEM FLOOR DETAILS
S102 SECOND FLOOR & LOW ROOF FRAMING PLAN	A603	2nd FLOOR REFLECTED CEILING PLAN	P-203	PLUMBING SECOND FLOOR PLAN	E-403	FIRE ALARM SECOND FLOOR PLAN	AVV103	AVV SYSTEM CONDUIT 1ST FLOOR RCP
S103 ROOF FRAMING PLAN	A701	ELEV & STAIR PLANS & SECTIONS	P-204	PLUMBING ROOF PLAN	E-404	FIRE ALARM ROOF PLAN	AVV104	AVV SYSTEM CONDUIT 2ND FLOOR RCP
S201 SLAB ON GRADE DETAILS	A702	STAIR PLANS & SECTIONS	P-401	PLUMBING FIRST FLOOR ENLARGED PLANS	E-501	ELECTRICAL ONE-LINE DIAGRAM	Grand total:	171
S201 STEEL FRAMING SCHEDULES AND TYPICAL DETAILS	A703	STAIR PLANS & SECTIONS	P-402	PLUMBING SECOND FLOOR ENLARGED PLANS	E-502	FIRE ALARM & FIRE RADIO RISER DIAGRAM		
S302 TRUSS ELEVATION AND DETAILS	A704	TYPICAL STAIR DETAILS @ STAIR A, B, & D	P-501	PLUMBING RISER DIAGRAMS 1 OF 2				
S303 STEEL COLUMN SCHEDULE AND DETAILS								
S311 FRAMING SECTIONS								

COVER

G000

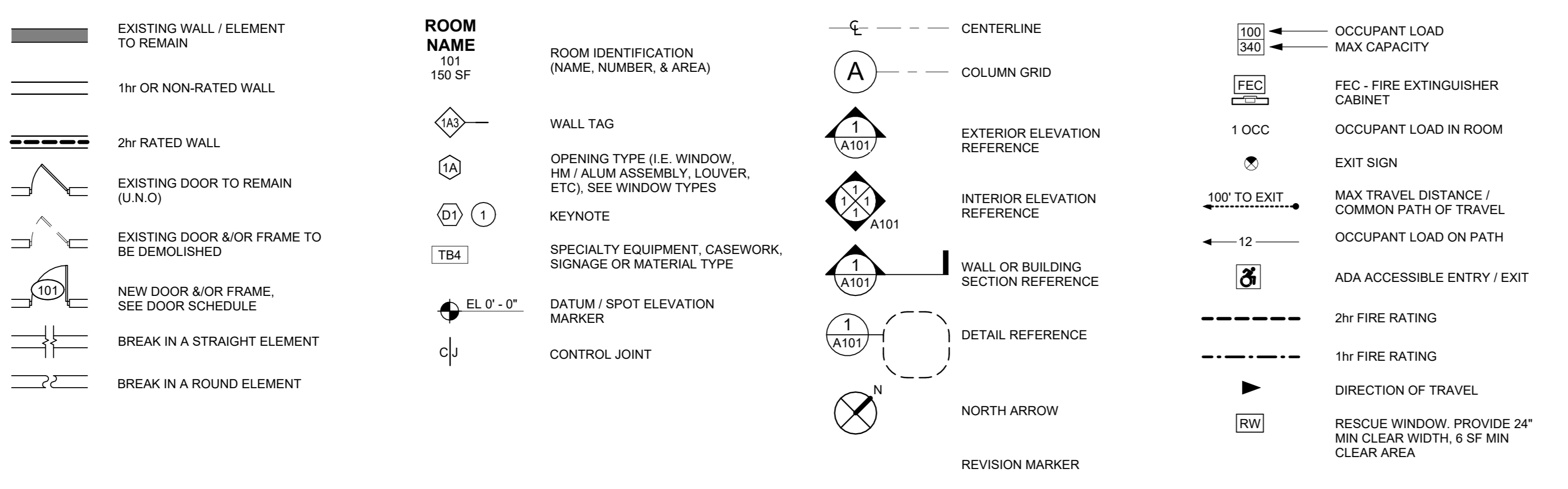
ABBREVIATIONS

&	AND	DA	DEVICE ARRANGEMENT	GA	GAUGE	MAINT	MAINTAIN/MAINTENANCE	R	RISER	TURF	ARTIFICIAL TURF
@	AT	DEM	DEMOLISH / DEMOLITION	GALV	GALVANIZED	MATL	MATERIAL	RA	RETURN AIR	UNFIN	UNFINISHED
∅	BY	DET	DETAIL	GEN	GENERAL	MAX	MAXIMUM	RB	RUBBER BASE	UNO, UN	UNLESS NOTED OTHERWISE
∅	CENTER LINE	DF	DRINKING FOUNTAIN	GEN	GENERAL	MBR	MEMBRANE	RCP	REFLECTED CEILING PLAN	UR	URINAL
#	DIAMETER	DIA	DIAMETER	GFB	GROUND FACE BLOCK	MCP	METAL COMPOSITE PANEL	RD	ROOF DRAIN	UTL	UTILITY
#	FOUND / NUMBER	DIM	DIMENSION	GFRG	GLASS FIBER REINFORCED GYPSUM	MFB	METAL CORNER BEAD	REF	REFERENCE	UTL	UTILITY
AC	AIR CONDITIONING	DR	DOOR	GL	GLASS	MECH	MECHANICAL	REFL	REFLECTED	VAT	VINYL ASBESTOS TILE
ACENT	ACCENT PAINT COLOR	DWR	DRAWING	GOG	GOGGLE	MEMB	MEMBRANE	REFR	REFRIGERATOR	VCT	VINYL COMPOSITE TILE
ACM	ASBESTOS CONTAINING MATERIAL	DWG	DRAWER	GWB	GYPSUM WALLBOARD	MFR	MANUFACTURER	REG	REGISTER	VEN	VENER
ACPL	ACOUSTIC PANEL	E	EAST	GYP	GYPSUM	MH	MATCH HEIGHT / MAGNETIC HOLD	REIN	REINFORCED / REINFORCING	VERT	VERTICAL
ACT	ACOUSTIC CEILING TILE	EA	EACH	H	HEIGHT AFF	MIN	MINIMUM	REQ, REOD	REQUIRED	VEST	VESTIBULE
ADJ	ADJACENT / ADJUSTABLE	EE	EACH END	HC	HOSE BIB	MISC	MISCELLANEOUS	RFI	REQUEST FOR INFORMATION	VET	VINYL ENHANCED TILE
ADA	AMERICANS WITH DISABILITIES ACT	EES	EXTERIOR INSULATION FINISH SYSTEM	HDWD	HOLLOW CORE	MLWK	MILL WORK	RH	RIGHT HAND	VFY	VERIFY
ADMIN	ADMINISTRATION	EJ	EXPANSION JOINT	HW	HARDWARE	MOLD	MASONRY OPENING	RM	ROOM	WF	VERIFY IN FIELD
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	ELEC	ELECTRIC/ELECTRICAL	HDWR	HARDWARE	MP	MOVABLE PARTITION	RO	ROUGH OPENING	WRB	VENTED RUBBER BASE
AFF	ABOVE FINISH FLOOR	EL	ELEVATION	HD	HEAD	MS	METAL STUD	RSF	RUBBER SPORTS FLOOR	VRS	VINYL REDUCER STRIP
AHAP	AS HIGH AS POSSIBLE	ELV	ELEVATOR	HDR	HEADER	MSTRY	MASONRY	RT	RUBBER TREAD / TILE	VSP	VINYL SHEET FLOORING
AHU	AIR HANDLING UNIT	ENC	ENCLOSURE	HM	HOLLOW METAL	MNTD	MOUNTED	RTB	RUBBER TREAD BASE	VT	VINYL TILE
AL, ALUM	ALUMINUM	ENCL	ENCLOSURE	HMR	HOLLOW METAL FRAME	MTG	MOUNTING	RTN	RETURN	VWC	VINYL WALL COVERING
ALT	ALTERNATE	EDG	EDGE OF DECK	HR	HORIZONTAL	MTL, MET	METAL	RTT	RESILIENT TERRAZZO TILE	W	WEST
AMP	ACRYLIC MODIFIED POLYESTER	EOS	EDGE OF SLAB	HT	HEIGHT	MULL	MULLION	RW	RESUCE WINDOW	WI	WITH
APPROX	APPROXIMATE	EPO	EPOXY	HVAC	HEATING, VENTILATING, AIR CONDITIONING	N	NORTH	S	SOUTH / SAFETY GLAZING / SEE SPEC	WIC	WHEEL CHAIR
ARCH	ARCHITECTURAL	EPS	EDGE OF POUR STOP	ID	INSIDE DIAMETER	NIC	NOT IN CONTRACT	SC	SOLID CORE	W/O	WITHOUT
AV	AUDIO VISUAL	EQ	EQUAL	IF	INSIDE FACE	NUM	NUMBER	SCH	SCHLUTER ALUMINUM COVE BASE	WB	WHITEBOARD
BD	BOARD	EQUIP	EQUIPMENT	IN	INSIDE	NOM	NOMINAL	SCHED	SCHEDULE / SCHEDULED	WP	WHITEBOARD PAINT
BEPO	BROADCAST EPOXY	ES	EACH SIDE	INCL	INCLUDE / INCLUSIVE	NTS	NOT TO SCALE	SEAL	SEALED CONCRETE	WC	WOOD CLOSET
BL	BUILDING LINE	EST	ESTIMATE	INCH	INCH / INCHES	OA	OVERALL	SEALANT	SEALANT	WD	WOOD
BLDG	BUILDING	ETC	ETCETERA	INFO	INFORMATION	OC	ON CENTER	SECT	SECTION	WDP	WOOD PANEL
BLKG	BLOCKING	ETRE	EXISTING TO REMAIN	INSUL	INSULATION	OD	OUTSIDE DIAMETER	SF	SQUARE FEET	WD BLKG	WOOD BLOCKING
BM	BEAM	EW	EXISTING TO BE RELOCATED	INT	INTERIOR	OF	OUTSIDE FACE	SFB	SPLIT FACE BLOCK	WD DR	WOOD DOOR
BO	BOTTOM OF	EXP JT	EXPANSION JOINT	JAN/JC	JANITOR'S CLOSET	OFF	OFFICE	SH	SHELVING / SHELF / SHELVES	WF	WATER FOUNTAIN
BOT	BOTTOM	EXPO	EXPOSED	JO	JOINT	OFF	OFFICE	SHT	SHEET	WGL	WIRE GLASS
BTW, BET	BETWEEN	EXT, EXTR	EXTERIOR	KT	KITCHEN	OH	OVERHEAD	SIM	SIMILAR	WOM	WALK-OFF MAT
CA	CARD ACCESS	EX-H	EXISTING HARD CEILING	KD	KNOCKDOWN	OP	OPENING	SL	SLATE	WR	WATERPROOFING / WORK POINT
CAB	CABINET	FA	FIRE ALARM	KIT	KITCHEN	OPP	OPPOSITE	SPEC	SPECIFICATION	WR	WARDROBE
CB	CEMENT BOARD	FAB	FABRIC	KO	KNOCKOUT	OPH	OPPOSITE HAND	SPF	SPORTS FLOOR	WT	WEIGHT
CFS	COLD FORMED STEEL	FEC	FIRE EXTINGUISHER CABINET	KPL	KICK PLATE	OTS	OPEN TO STRUCTURE	SOFT	SQUARE FOOT	WW	WINDOW WALL
CI	CAST IRON	FDM	FLOOR DRAIN	L	LENGTH / LONG	OUT	OUTLET	SS	STAINLESS STEEL		
CHAMF	CHAMFER	FDM	FLOOR DAMPER	LAM	LAMINATE	OV	OVER	STC	SOUND TRANSMISSION CLASS		
CL	CENTER LINE	FDN	FOUNDATION	LAV	LAVATORY	P, PTD	PAINTED	STD	STANDARD		
CLG	CEILING	FE	FIRE EXTINGUISHER	LAMGL	LAMINATED GLASS	PB	PARTICLE BOARD	ST, STOR	STAINLESS STEEL		
CLR	CLEAR	FEC	FIRE EXTINGUISHER	LAV	LAVATORY	PG	PAIN GRADE	ST STL	STEEL		
CMU	CONCRETE MASONRY UNIT	FF	FACTORY FINISH	LH	LEFT HAND	PNL	PANEL	STR, STRUCT	STRUCTURAL / STRUCTURE		
CNT	COUNTER	FHC	FULL HEIGHT	LIN	LINOLEUM	PL	PLATE / PROPERTY LINE	SUSP, SP	SUSPENDED / SUSPENSION		
CONC	CONCRETE	FHV	FIRE HOSE VALVE CABINET	LKR	LOCKER	PLAM	PLASTIC LAMINATE	T	TOP / TREAD / TILE		
CONF	CONFERENCE	FIN	FINISHED	LMT	LIGHT METAL FRAMING	PLMB	PLUMBING	TAB	TOP & BOTTOM		
CONST	CONSTRUCTION	FX	FIXTURE	LMT	LIGHT	PR	PAIR	T&G	TONGUE & GROOVE		
CONTR	CONTRACTOR	FL	FLOOR	FL	FLOOR	PR	PAIR	TB	TACKBOARD		
CONT	CONTINUOUS	FLUOR	FLUORESCENT	FLM	FLOOR MOUNTED	PT	PORCELAIN TILE	TBD	TO BE DETERMINED		
CORR	CORRIDOR	FL MTD	FLUSH MOUNTED	LOC	FACE OF CONCRETE	PTB	PORCELAIN TILE BASE	TEMP	TEMPERED		
CPT	CARPET	FOS	FACE OF STUD	FP	FIRE PROTECTION	PTN	PARTITION	TERR	TERRAZZO		
CR	CLASSROOM / CARD READER	FR	FIRE RATED	FRD	FRENCH DRAIN	PTWD	PRESERVATIVE TREATED WOOD	TEL	TELEPHONE		
CT	CERAMIC TILE	FRD	FIRE RATED	FRITZ	FRITZ FLOOR (RTT) TILE	QT	QUARRY TILE	THK	THICK		
CTB	CERAMIC TILE BASE	FRP	FIBER REINFORCED POLYMER	FRTD	FRITZ FLOOR (RTT) TILE	QTB	QUARRY TILE BASE	THK	THICK		
CTR	CENTER	FT	FACE TO FACE	FTD	FRITZ FLOOR (RTT) TILE	QTY	QUANTITY	TMP GL	TEMPERED GLASS		
		FTG	FOOTING	FUR	FURRED / FURRING			TO	TOP OF		
		FURR	FURRED / FURRING					TOSS	TOP OF STRUCTURAL SLAB		
								TOES	TOP OF EXISTING SLAB		
								TRT	TERRAZZO RESILIENT TILE		
								TT	TERRAZZO TILE		
								TV	TYPICAL		

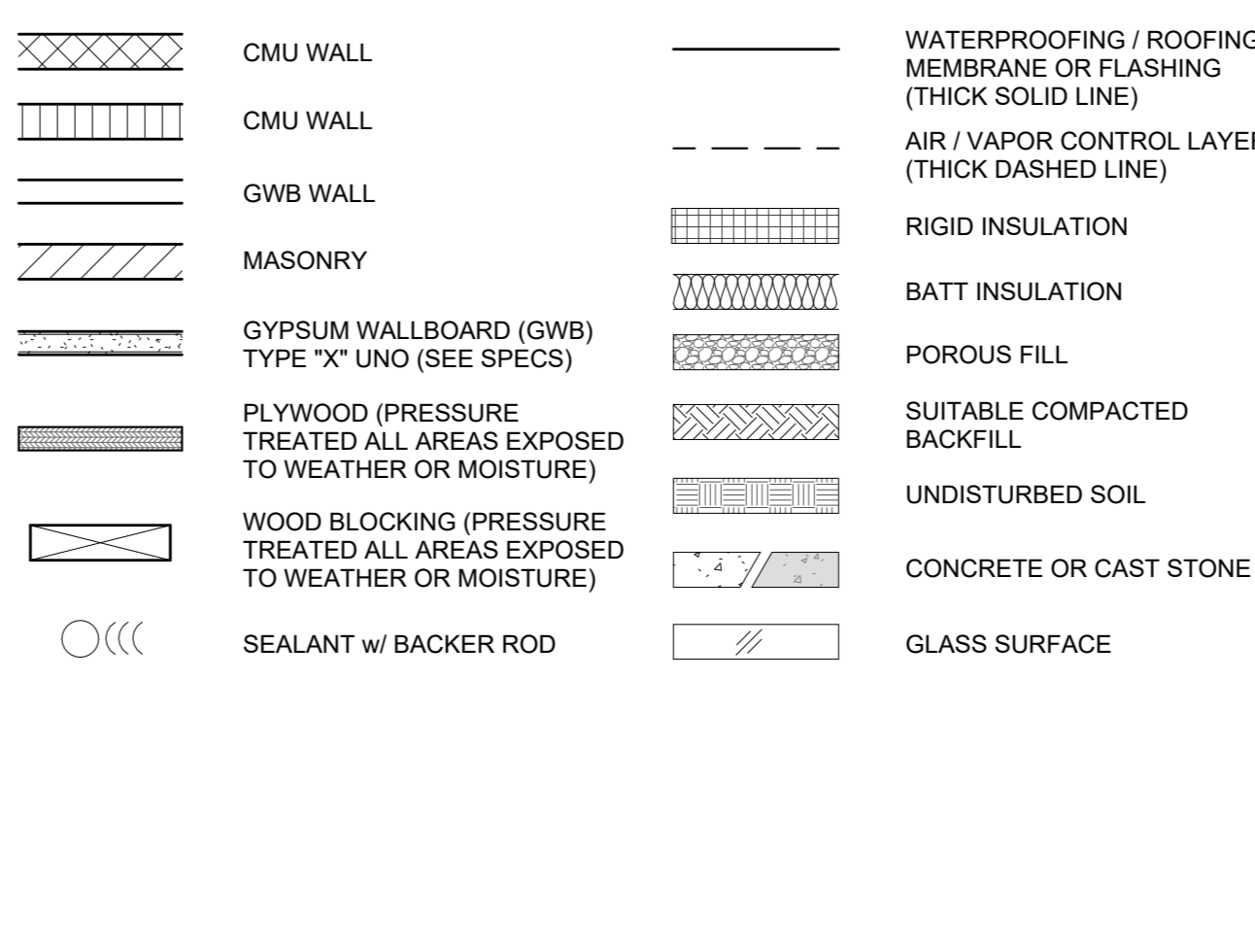
GENERAL NOTES

- THE FOLLOWING NOTES ARE INTENDED TO SUPPLEMENT & BRING ATTENTION TO SPECIFIC REQUIREMENTS WITHIN THE GENERAL CONDITIONS OF THE CONTRACT AS INCLUDED IN THE PROJECT MANUAL / SPECIFICATIONS.
- THE WORK SHALL CONFORM TO ALL APPLICABLE & CURRENTLY ADOPTED BUILDING CODES & OTHER GOVERNING CODES, ORDINANCES & REGULATIONS. IN THE EVENT OF A CONFLICT, THE MOST STRINGENT SHALL APPLY.
 - THE CONTRACTOR SHALL MAINTAIN A CURRENT & COMPLETE SET OF CONSTRUCTION DOCUMENTS ON THE JOB SITE TO BE MADE AVAILABLE FOR REFERENCE BY THE OWNER, ARCHITECT & OTHER OWNER CONSULTANTS.
 - THE WORK SHALL CONSIST OF ALL LABOR, MATERIALS, TRANSPORTATION, TOOLS & EQUIPMENT NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF THE WORK, LEAVING ALL WORK READY FOR USE BY THE OWNER. EVEN IF ITEMS ARE MISSING FROM THE DRAWINGS OR SPECIFICATIONS, BUT ARE NORMALLY REQUIRED FOR PROPER OPERATION OR TO COMPLETE OTHERWISE INCOMPLETE CONSTRUCTION, THEY SHALL BE INCLUDED BY THE CONTRACTOR.
 - QUESTIONS REGARDING THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN ACCORDANCE WITH THE REQUEST FOR INFORMATION PROCEDURE. IN THE EVENT OF INCONSISTENCIES BETWEEN PARTS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL (1) PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK OR (2) COMPLY WITH THE MORE STRINGENT REQUIREMENTS, EITHER OR BOTH IN ACCORDANCE WITH THE ARCHITECT'S INTERPRETATION.
 - PRIOR TO THE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL EXAMINE EXISTING PROJECT CONDITIONS & SUBMIT PHOTO OR VIDEO DOCUMENTATION TO THE ARCHITECT & OWNER FOR RECORD. EXISTING CONDITIONS CRITICAL FOR THE EXECUTION OF THE WORK, SUCH AS FLOOR ELEVATIONS, PLAN DIMENSIONS, OVERALL BUILDING DIMENSIONS, TIE-IN POINTS, ETC SHALL BE CONFIRMED, WHERE FEASIBLE, BY THE CONTRACTOR IN ADVANCE OF STARTING THE WORK.
 - MEANS, METHODS & JOB-SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - THE CONTRACTOR SHALL BE PRESUMED TO HAVE EXAMINED THE PROJECT SITE TO CONSIDER FULLY ALL CONDITIONS THAT MAY HAVE BEARING ON THE WORK & TO HAVE ACCOUNTED FOR THESE CONDITIONS. THE CONTRACTOR IS DEEMED TO BE A QUALIFIED EXPERT IN THE REQUIREMENTS OF THE WORK. THE CONTRACTOR'S FAILURE TO FAMILIARIZE ITSELF WITH EXISTING CONDITIONS OR FAILURE TO SUBMIT REQUIRED DOCUMENTS IN A TIMELY MANNER SHALL NOT BE GROUNDS FOR EXTENSION OF TIME OR ADDITIONAL COMPENSATION.
 - THE CONTRACTOR SHALL EXERCISE EXTREME CARE & PRECAUTION DURING CONSTRUCTION & EXTENTS OF THE WORK & ARE PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO SERVE AS 'SHOP' OR 'ERECTION' DRAWINGS.
 - THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE CONDITIONS TO REMAIN INCLUDING INTERIOR, EXTERIOR, TREES, SHRUBS, PAVING, FENCES, ETC.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, FITTING, OR PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY. ALL AREAS REQUIRING CUTTING, FITTING, OR PATCHING SHALL BE RESTORED TO THE CONDITION EXISTING PRIOR UNLESS NOTED OTHERWISE. THE PROJECT SPECIFICATION MAY CONTAIN MORE DETAIL REGARDING CUTTING & PATCHING RESPONSIBILITIES.
 - MANY PORTIONS OF THE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC & INSTALLATION OF SUCH SYSTEMS OR COMPONENTS MAY REQUIRE DETAILED ATTENTION TO ROUTING & COORDINATION WITH OTHER SUCH SYSTEMS OR EXISTING COMPONENTS. MINOR ADJUSTMENT OF ROUTING TO ACCOMMODATE EXISTING CONDITIONS & OTHER SYSTEMS SHALL BE THE PRIMARY RESPONSIBILITY OF THE CONTRACTOR. MAJOR ADJUSTMENTS TO ROUTING OR RECONFIGURATION MUST BE REVIEWED WITH THE ARCHITECT.
 - THE CONTRACTOR SHALL PAY ATTENTION TO IMPLIED PLAN & SECTION SPATIAL RELATIONSHIPS & VERIFY ALL DATUMS, AXES & IMPLIED SYMMETRIES. ALL DIMENSIONS SHALL BE CHECKED FOR ACCURACY AS THE WORK PROGRESSES.
 - THE CONTRACT DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN, & EXTENTS OF THE WORK & ARE PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO SERVE AS 'SHOP' OR 'ERECTION' DRAWINGS.
 - DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. DIMENSIONS ON LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
 - WHERE DIMENSIONS ARE NOTED AS "CLEAR" THEY ARE CODE OR FUNCTIONAL REQUIREMENTS & MUST BE MAINTAINED FROM FINISHED FACES. SEEK CLARIFICATION OF THE INTENT FROM THE ARCHITECT WHEN IN DOUBT.
 - DETAILS SHOWN ARE TYPICAL, UNLESS NOTED OTHERWISE. SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS.
 - VERIFY ALL ARCHITECTURAL DETAILS WITH STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL CONDITIONS BEFORE ORDERING OR INSTALLING ANY ITEM OF WORK.
 - WHERE LOCATIONS OF NEW DOORS OR WINDOWS ARE NOT DIMENSIONED, THEY SHALL BE CENTERED IN THE WALL OR PLACED AS INDICATED IN TYPICAL DETAILS FROM ADJACENT WALLS.
 - ALL CHANGES OF MATERIAL SHALL OCCUR AT CENTERLINE OF DOOR OR FRAMED OPENING UNLESS NOTED OTHERWISE.
 - SUPPLEMENTAL BLOCKING & REINFORCING FOR WALL-MOUNTED OR WALL-SUPPORTED ITEMS, SUCH AS TOILET ACCESSORIES, SHELVING, CABINETS, AV EQUIPMENT, ETC IS TYPICALLY NOT SPECIFICALLY DETAILLED ON THE DRAWINGS BUT IS REQUIRED IN THE SPEC. FURTHERMORE, THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.
 - ALL WORK SHALL BE FIRM, WELL & SECURELY ANCHORED, ERRECTED & INSTALLED PLUMB, LEVEL, SQUARE, IN TRUE & PROPER ALIGNMENT & ADJUSTMENT WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION. JOINTING SHALL BE CLOSE FITTING, NEAT & WELL SCRIBED. FINISHED WORK SHALL NOT HAVE EXPOSED, UNSIGHTLY ANCHORS OR FASTENERS & SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION, CONTRACTION & SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING, & WARPING DUE TO TEMPERATURE & HUMIDITY CONDITIONS. INSTALL ALL MATERIALS & EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

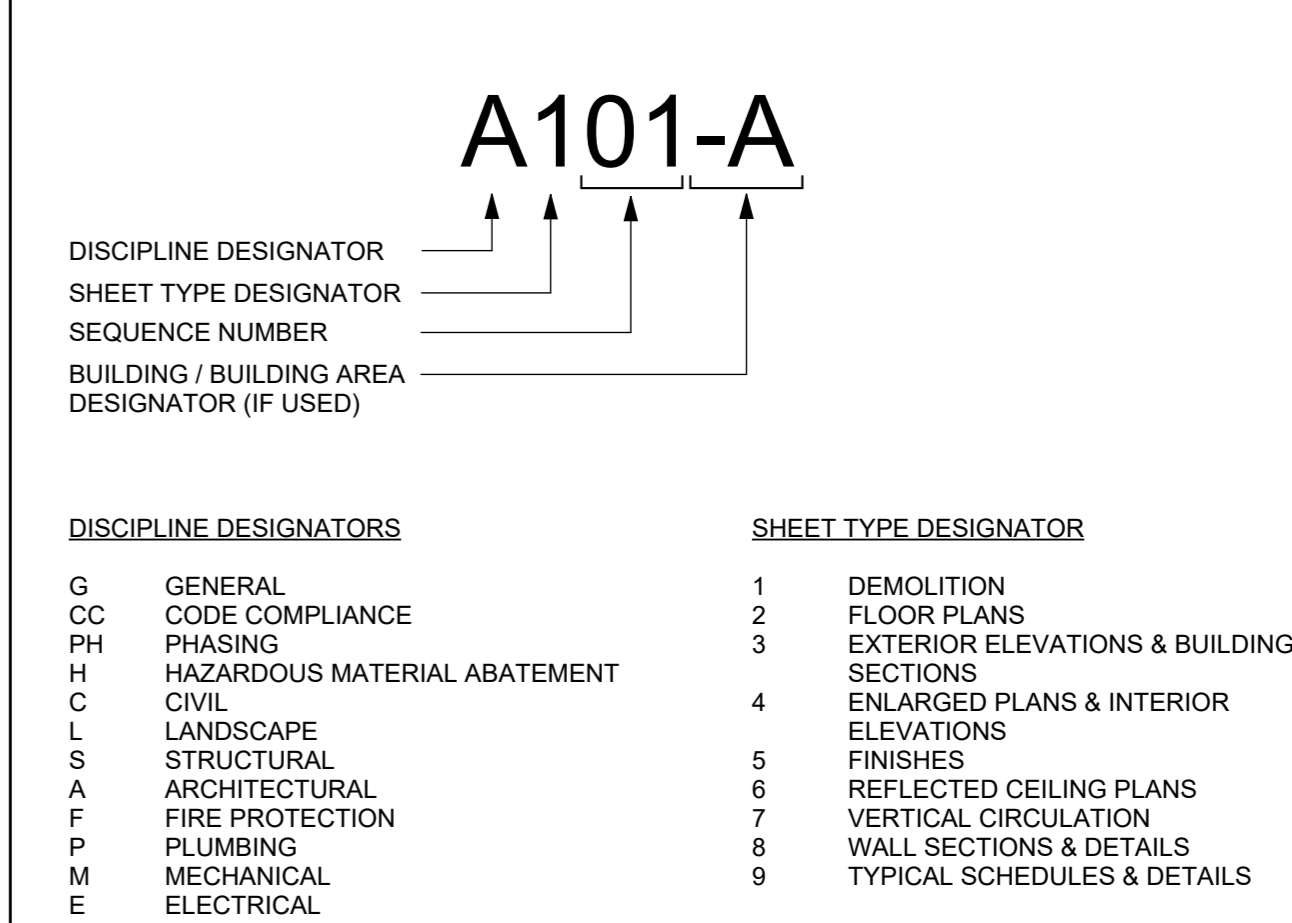
SYMBOLS LEGEND



MATERIALS LEGEND



SHEET IDENTIFICATION LEGEND



HARRISON RECREATION & COMMUNITY CENTER
New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

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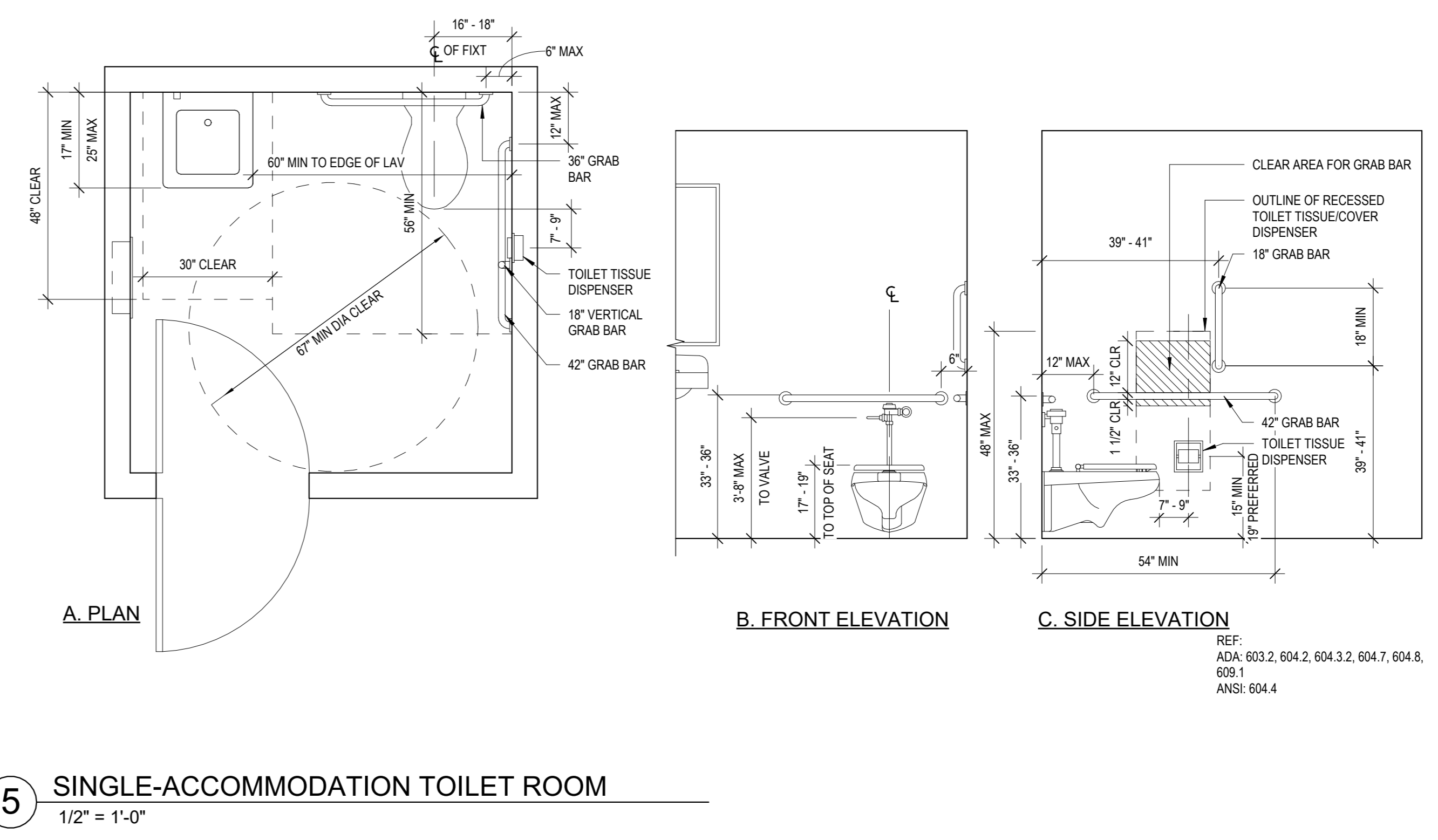
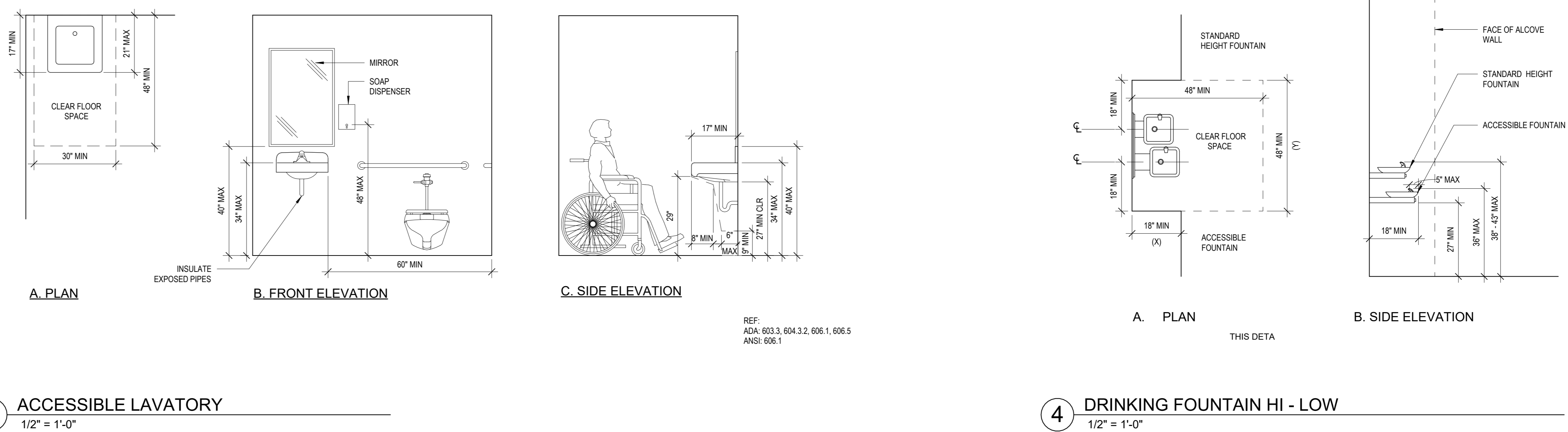
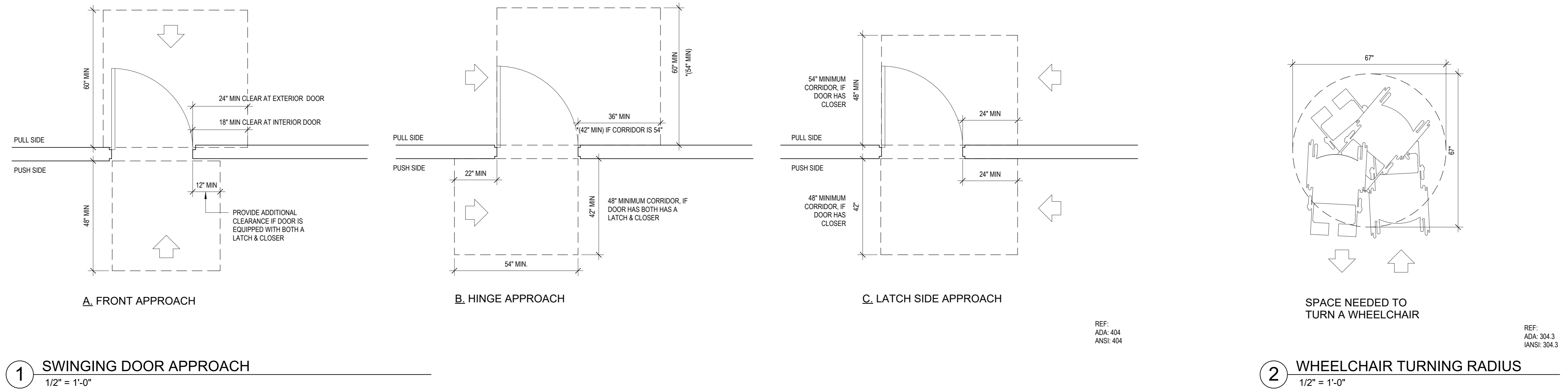
Professional Seal

7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

GENERAL INFORMATION

Job No.	2020-1005	Date	01/17/18
Scale	AS NOTED	Drawn / Checked	- / -
Sheet Number	G001		



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1	03/31/2020	50% DESIGN DEVELOPMENT

**ACCESSIBILITY
DIAGRAMS**

Job No. 2020-1005	Date 01/17/18
Scale AS NOTED	Drawn / Checked --
Sheet Number G002	

**BCNYS CHAPTERS 3 - 6:
OCCUPANCY CLASSIFICATION & USE; BUILDING
HEIGHTS & AREAS; TYPES OF CONSTRUCTION**

NEW BUILDING / ADDITION

USE & OCCUPANCY CLASSIFICATION(S): ASSEMBLY GROUP A-3, A-4
LOW-HAZARD STORAGE GROUP S-2

TYPE OF CONSTRUCTION: IIB (NON-COMBUSTIBLE, UNPROTECTED)

BUILDING HEIGHT & AREA: PERMITTED ACTUAL
(A-3, IIB, SM) HEIGHT* 75' 42'
STORIES 3 3
AREA PER FLOOR 32,585 SF** 30,240 SF (1st FL)

*HEIGHT ABOVE AVERAGE LOWEST FINISHED GRADE WITHIN 6' OF EXTERIOR WALLS OR WITHIN LOT LINE IF <6' AWAY FROM BUILDING.
**AREA MODIFICATIONS PER BCNYS SECTION 508:

EQUATION 5-2: $A_a = [A_1 + (NS \times I)]$ WHERE:
 A_a = ALLOWABLE FLOOR AREA PER STORY
 A_1 = 28,500 SF (IIB, S)
 NS = 9,500 (IIB, NS)
 I = 0.43 (SEE EQUATION 5-5)

EQUATION 5-5: $I_f = [F / (P - 0.25)] (W / 30)$ WHERE:
 I_f = AREA INCREASE DUE TO FRONTAGE
 F = 505' (PERIMETER FRONTING PUBLIC WAY OR ≥20' OPEN)
 P = 748' (PERIMETER OF ENTIRE BUILDING)
 W = 30' (WIDTH OF PUBLIC WAY (30 FT MAX))

FIRE-RESISTANCE RATING FOR BUILDING ELEMENTS	TYPE IIB
PRIMARY STRUCTURAL FRAME:	0 HRS
FLOORS:	0 HRS
ROOFS:	0 HRS
BEARING WALLS (EXT. INT):	0, 0 HRS
NON-BEARING WALLS (EXT. INT):	0, 0 HRS

BUILDING AREAS		TYPE	STORIES*	LEVEL	AREA
YEAR	DESCRIPTION				
2024	NEW CONSTRUCTION	IIB	3	LOWER LVL	9,500 SF
				1st FLOOR	30,240 SF
				2nd FLOOR	13,000 SF
				TOTAL	52,740 SF

*STORIES ABOVE GRADE PLANE - BASEMENT NOT INCLUDED IF NEXT FLOOR ABOVE IS <6' ABOVE GRADE PLANE OR <12' ABOVE FINISHED GROUND LEVEL AT ANY POINT PER BCNYS SECTION 202 DEFINITIONS

**BCNYS CHAPTER 7:
FIRE & SMOKE PROTECTION FEATURES**

ASSEMBLY

FIRE BARRIER: 2 HRS
(BCNYS TABLE 508.4, 509, 707.3.10)
(BCNYS 713.2, 1023.2, 3002.1, 3005.4)

TRANSFORMER ROOM
INT EXIT STAIRWAY ≥4 STORIES
ELEVATOR SHAFT ≥4 STORIES
ELEV MACHINE ROOM ≥4 STORIES
SHAFTS ≥4 STORIES

1 HR
INT EXIT STAIRWAYS <4 STORIES
ELEVATOR SHAFTS <4 STORIES
ELEV MACHINE ROOM <4 STORIES
SHAFTS <4 STORIES
FIRE PUMP ROOM

HORIZONTAL SEPARATION: 1 HRS
(BCNYS TABLE 508.4, b)

RATED FLOOR / CEILING ASSEMBLY

*** SEE DRAWING CC002 FOR LOCATIONS OF FIRE-RESISTANCE-RATED CONSTRUCTION ***

OPENING PROTECTIVES		BCNYS SECTION 716.1(2)			
ASSEMBLY	WALL RATING	DOOR (MINS)	DOOR GLAZING	FRAME (MINS)	FRAME GLAZING
FIRE WALLS:	2 HRS	90	≤100 SQ IN D-H-90 >100 SQ IN D-H-W-90	120	W-120
FIRE BARRIERS: EXIT STAIR*, SHAFTS & PASSAGES*	1 HR	60	≤100 SQ IN D-H-90 >100 SQ IN D-H-T-W-90	60	W-60
FIRE BARRIERS: OTHER	1 HR	45	D-H	45	D-H
FIRE PARTITIONS: CORRIDORS (NO RATING REQUIRED IF SPRINKLERED)	1 HR	20	D-20	45	D-H-45

*DOORS IN INTERIOR EXIT STAIRS, RAMPS & PASSAGES SHALL BE 450° TEMP RISE UNLESS SPRINKLERED

FIRE-RATED GLAZING ASSEMBLY MARKINGS		BCNYS 716.1(1)	
TEST STANDARD	MARK	DEFINITION OF MARKING	
ASTM E119 OR UL 263	W	MEETS WALL ASSEMBLY CRITERIA (PYROSTOP)	
NFPA 252 OR UL 10B OR UL 10C	D H T	MEETS FIRE DOOR ASSEMBLY CRITERIA (FIRELITE PLUS) MEETS FIRE DOOR ASSEMBLY HOSE STREAM (FIRELITE PLUS) MEETS 450° TEMP RISE CRITERIA FOR 30 MINS (PYROSTOP)	

**BCNYS CHAPTER 10:
MEANS OF EGRESS**

EGRESS INFORMATION

ROOM USE DESIGNATIONS:
ROOM SQUARE FOOTAGE:
ROOM OCCUPANCY LOADS:
ASSEMBLY SPACE EXIT WIDTH CALCS:
AREA OF REFUGE:
RESCUE WINDOWS:
EXIT SIGNS:

CC002, FLOOR PLANS
CC002, FLOOR PLANS
CC002
CC001
CC002
CC002, ELEVATIONS
CC002, ELECTRICAL DWGS

DWG SHOWN

BCNYS TABLE 1017.2, 1020.4

UNSPRINKLERED: 200' MAX
SPRINKLERED: 250' MAX
DEAD-END CORRIDORS (UNSPRINKLERED): 20' MAX
DEAD-END CORRIDORS (SPRINKLERED): 50' MAX

OCCUPANCY LOAD

CLASSROOMS:
SHOPS & OTHER VOCATIONAL ROOMS:
OFFICE AREAS:
KITCHEN AREAS:
STORAGE / MECHANICAL:

BCNYS SECTION 1004.5

20 NET SF / PERSON
50 NET SF / PERSON
100 GROSS SF / PERSON
200 GROSS SF / PERSON
300 GROSS SF / PERSON

EXIT WIDTH

STAIR WIDTH
UNSPRINKLERED: 3' / OCCUPANT
SPRINKLERED: 2' / OCCUPANT
SPRINKLERED: 44" MIN
<50 OCC LOAD: 36" MIN
>50 OCC LOAD: 48" MIN BETWEEN HANDRAILS
ACCESSIBLE
OTHER EGRESS COMPONENTS
UNSPRINKLERED: 2' / OCCUPANT
SPRINKLERED: 1.5' / OCCUPANT

BCNYS SECTION 1005.1

CORRIDOR WIDTH

≥50 OCC LOAD: 44" MIN
<50 OCC LOAD: 3'-0" MIN

BCNYS TABLE 1020.2

SPACE	AREA (SF)	OCC LOAD	REQUIRED			PROVIDED		
			No. OF EXITS	EGRESS WIDTH	TRAVEL DISTANCE	No. OF EXITS	EGRESS WIDTH	TRAVEL DISTANCE
LOWER LEVEL	9,500	29	2	5" (OCC * .15)	250' MAX	3	102"	42'
1st FLOOR (EXCL. GYM)	17,935	269	4	41" (OCC * .15)	250' MAX	4	272"	80'
2nd FLOOR	13,000	458	2	69" (OCC * .15)	250' MAX	3	188"	225' (TRACK)
GYMNASIUM (RM 113)	12,305	796 MAX OCC	3	120" (OCC * .15)	250' MAX 30' COMMON	4	340"	75' 18' COMMON

PROJECT INFORMATION

OWNER: TOWN / VILLAGE OF HARRISON, NY
ONE HEINEMAN PLACE
HARRISON, NEW YORK 10528

BUILDING NAME / LOCATION: HARRISON RECREATION & COMMUNITY CENTER
270 HARRISON AVENUE
HARRISON, NEW YORK 10528

TYPE OF PROJECT: NEW CONSTRUCTION - PHASE 2

PROJECT COMMENCEMENT: WINTER 2023

PROJECTED COMPLETION: SPRING 2025

APPLICABLE CODES: 2020 NEW YORK STATE UNIFORM FIRE PREVENTION & BUILDING CODE (BCNYS)
2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS)

HARRISON RECREATION & COMMUNITY CENTER

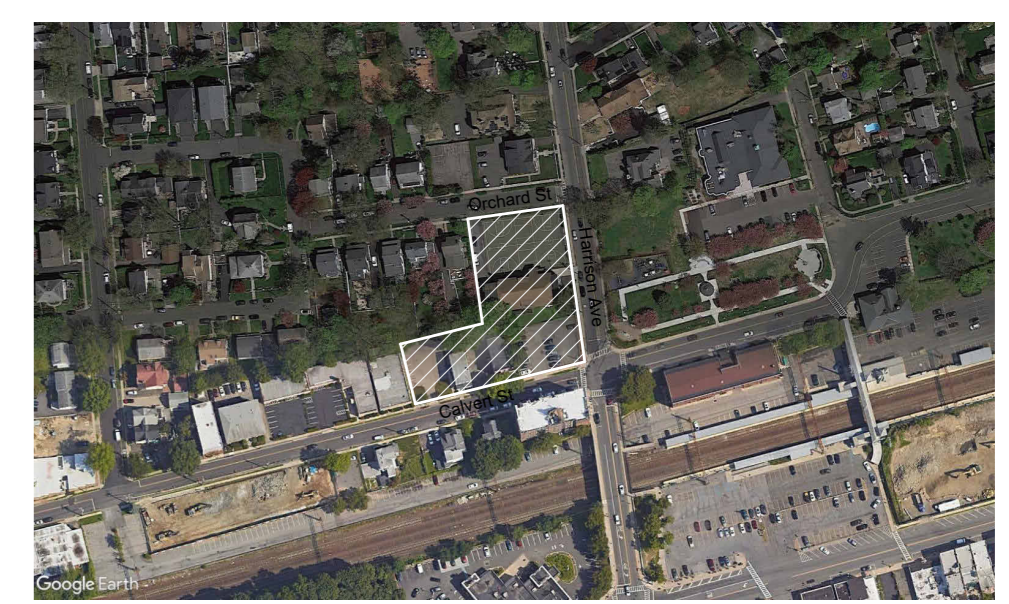
New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



LOCATION MAP



CONSTRUCTION DOCUMENTS

ECCCNYS COMMERCIAL ENERGY EFFICIENCY

COUNTY: WESTCHESTER
CLIMATE ZONE: 4A

GLAZED AREAS (≤ 40% OF ABOVE GRADE ENVELOPE): 20% C402.4.1

OPAQUE THERMAL ENVELOPE REQUIREMENTS:
ROOF - INSULATION ENTIRELY ABOVE DECK: TABLE C402.1.3.4
WALLS, ABOVE GRADE - MASS: R-30ci
WALLS, ABOVE GRADE - METAL FRAMED: R-9.5ci
WALLS, BELOW GRADE - MASS: R-13 + R-7.5ci
FLOORS - MASS: R-7.5ci
SLAB-ON-GRADE FLOORS - UNHEATED: R-10ci
OPAQUE DOORS - SWINGING: R-10 FOR 24" BELOW U-0.61

VERTICAL FENESTRATION:
FIXED FENESTRATION: TABLE 402.4
OPERABLE FENESTRATION: U-0.38
ENTRANCE DOOR: U-0.45
SHGC - FF < 0.2: U-0.77
SHGC - PF < 0.2: 0.36

SKYLIGHTS:
U-FACTOR: TABLE 402.4
SHGC: U-0.50
0.40

**BCNYS CHAPTER 9:
FIRE PROTECTION & LIFE SAFETY SYSTEMS**

SYSTEM	REQUIRED	PROVIDED
AUTO SPRINKLER SYSTEM (BCNYS 903.2):	YES	YES
ALTERNATIVE AUTO FIRE-EXTINGUISHING SYSTEM:	NO	NO
STANDPIPE SYSTEMS:	NO	NO
PORTABLE FIRE EXTINGUISHERS:	YES	YES
FIRE ALARM & DETECTION SYSTEMS:	YES	YES
EMERGENCY ALARM SYSTEMS:	NO	NO
SMOKE CONTROL SYSTEMS:	YES	YES
SMOKE & HEAT VENTS:	NO	NO
FIRE COMMAND CENTER:	NO	NO
FIRE DEPARTMENT CONNECTIONS:	YES	YES

PLUMBING FIXTURE COUNT

USE GROUP	LOAD	WATER CLOSETS				LAVATORIES				DRINKING FOUNTAINS		SERVICE SINK
		RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO	QTY	
ASSEMBLY (A)	1,745	1:125	882	1:65	882	1:200	882	1:200	882	1:500	1,763	1
		REQUIRED TOTALS	8		14		5		5		4	1
		PROVIDED	12		15		9		10		4	3

CALCULATIONS BASED ON FULL OCCUPANCY OF ALL ROOMS
OCCUPANCY = 1,763 (ASSUME 882 MEN, 882 WOMEN)

BCNYS CHAPTER 11: ACCESSIBILITY

ACCESSIBILITY INFORMATION:

ACCESSIBLE ROUTE:
ACCESSIBLE ENTRANCES:
PARKING FACILITIES:
ASSEMBLY SEATING:
TOILET FACILITIES:
ACCESSIBLE FEATURES:
VERTICAL ACCESS / ELEVATOR:
SIGNAGE:

CC002
CC002
SITE PLAN & CC002
CC002
CC002
FLOOR PLANS, ELEVATIONS, DETAILS
CC002
SPECIFICATIONS, SIGNAGE SCHEDULE

BCNYS CHAPTER 16: STRUCTURAL DESIGN

HANDRAILS, GUARDS, GRAB BARS & SEATS SHALL MEET THE FOLLOWING LOAD CONDITIONS:

HANDRAILS & GUARDS: 50 PLF LINEAR LOAD
200 LB CONCENTRATED LOAD

INTERMEDIATE RAILS
BALUSTERS & PANELS FILLERS: 50 LB CONCENTRATED LOAD

GRAB BARS & SEATS: 250 LB CONCENTRATED LOAD

VEHICLE BARRIERS: 6,000 LB CONCENTRATED LOAD

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3	01/16/2024	ISSUED FOR PERMIT
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1	03/31/2020	50% DESIGN DEVELOPMENT

CODE COMPLIANCE INFORMATION

Job No. 2020-1005 Date 03/31/2020

Scale AS NOTED Drawn / Checked - -

Sheet Number

CC001

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS



Vicinity Map

TAX LOTS 31 AND 33
Premises hereon being Lots 582 and 583 as shown on a certain map entitled, "2nd Map of Brentwood Plaza."
Said map filed in the Westchester County Clerk's Office, Division of Land Records July 27, 1892 as map number 1034.
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Surveyed in accordance with Deed Control Number 572483257.

Premises shown hereon designated on the Town of Harrison Tax Maps as Block 253, Lots 31 and 33.

Property Address: 260 Harrison Avenue
Harrison, NY 10528

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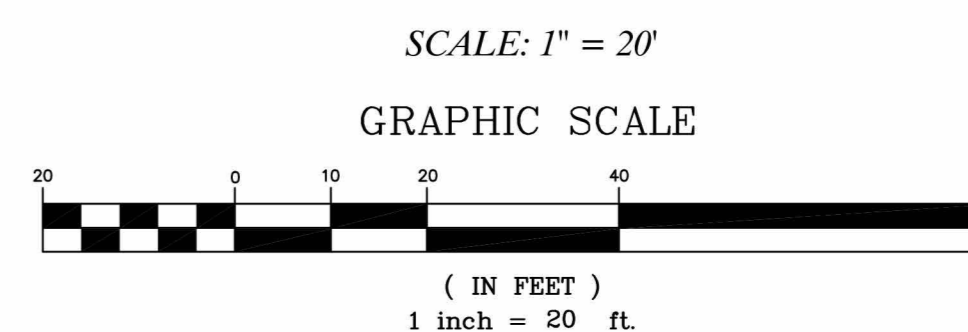
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**TOPOGRAPHY OF PROPERTY
PREPARED FOR
TOWN OF HARRISON**
SITUATE IN THE
TOWN OF HARRISON
WESTCHESTER COUNTY, NEW YORK



Project: 17-356	Reference: 10-216
Field Survey By: BFC/CR	Drawn By: DA/BIC
Project Manager: BFC	Checked By: BFC/DM

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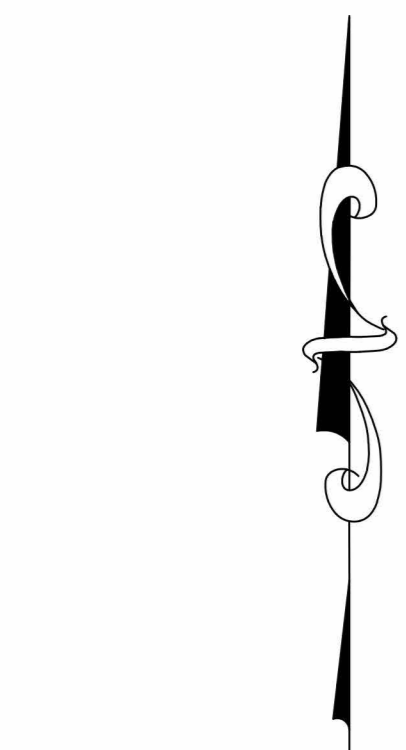
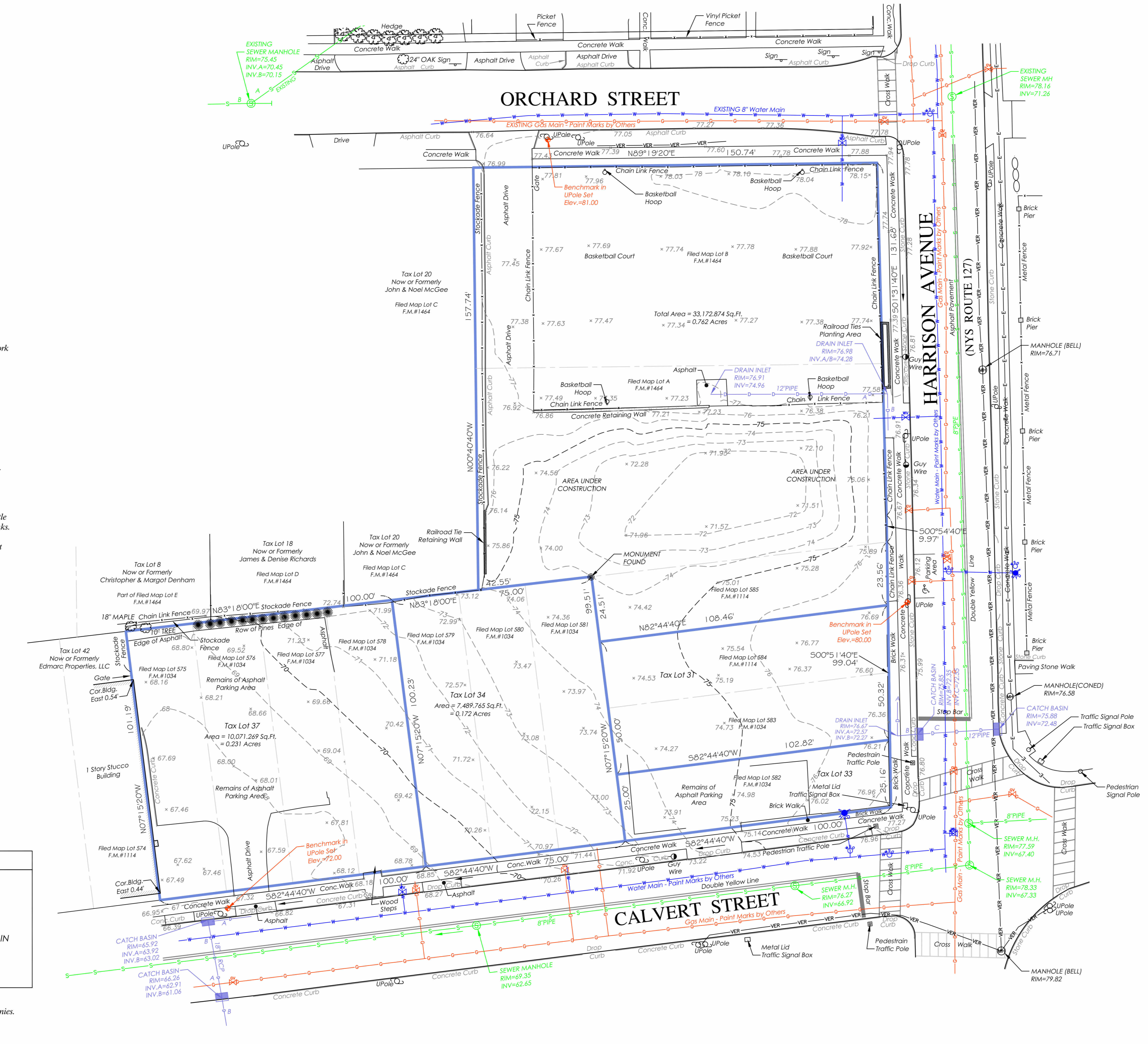
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Sheet Title

TOPOGRAPHIC SURVEY 2023

Job No. 2020-1005	Date 09/05/2023
Scale AS NOTED	Drawn / Checked - / -
Sheet Number	

V-001



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Possession only where indicated.

Adjacent property lines and easements not surveyed or certified. Access to adjacent rights of way, easements and public or private lands not guaranteed or certified.

Underground utilities shown hereon are approximate and should be verified before excavating. Additional underground utilities are not shown or certified. Encroachments and structures below grade, if any, not shown or certified.

Subject to covenants, easements, restrictions, conditions and agreements of record.

This map is prepared to show topography only and is not to be used for title transfer purposes. Map may not be certified to title companies and/or banks.

Tree species shown hereon to be verified by a licensed arborist and are not certified by surveyor.

Elevations shown hereon generally in accordance with North American Vertical Datum 88.

LEGEND

MANHOLES
DRAIN INLETS/CATCH BASINS
GAS VALVE/GAS BOX
WATER VALVE
HYDRANT
WATER SHUT OFF VALVE
UTILITY POLE
LIGHT POST
TOP OF CURB
BOTTOM OF CURB

LEGEND

W	W	W	WATER MAIN
D	D	D	DRAINAGE PIPE
G	G	G	GAS MAIN
S	S	S	SANITARY SEWER MAIN
E	E	E	ELECTRICAL LINE
VER	VER	VER	VERIZON LINE

Below ground utilities shown hereon as per delineation by others. Paint marks set in street by others & drawings supplied by utility companies. Additional utilities may exist, not shown.

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TC MERRITTS LAND SURVEYORS
394 BEDFORD ROAD • PLEASANTVILLE • NY 10570
(914) 769-8003 • survey@tcmeritts.com

Surveyed: October 7, 2017
Map Prepared: October 17, 2017
Map Revised: February 18, 2019 to show structures and topography on Tax Lots 34 and 37.
Map Revised: September 5, 2023 to show updated topography.

By: *Daniel T. Merritts*
New York State Licensed Land Surveyor No. 050604

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



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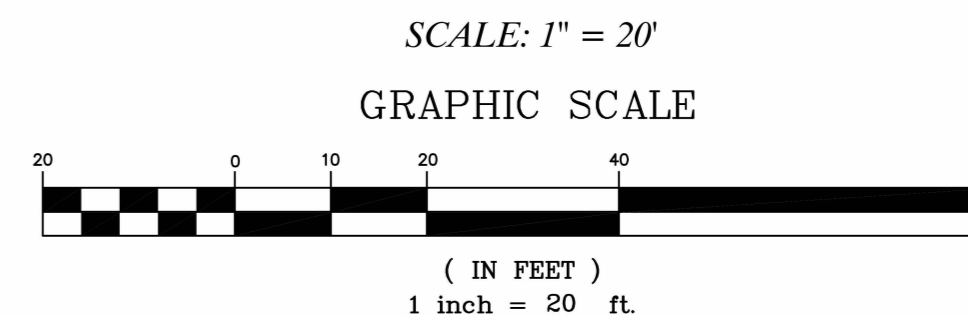
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Harrison, NY 10528

AS BUILT FOUNDATION AND TOPOGRAPHY PREPARED FOR TOWN OF HARRISON
SITUATE IN THE TOWN OF HARRISON, WESTCHESTER COUNTY, NEW YORK

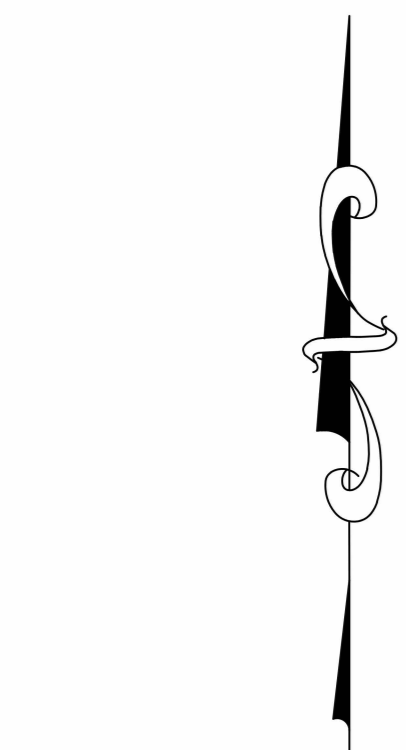
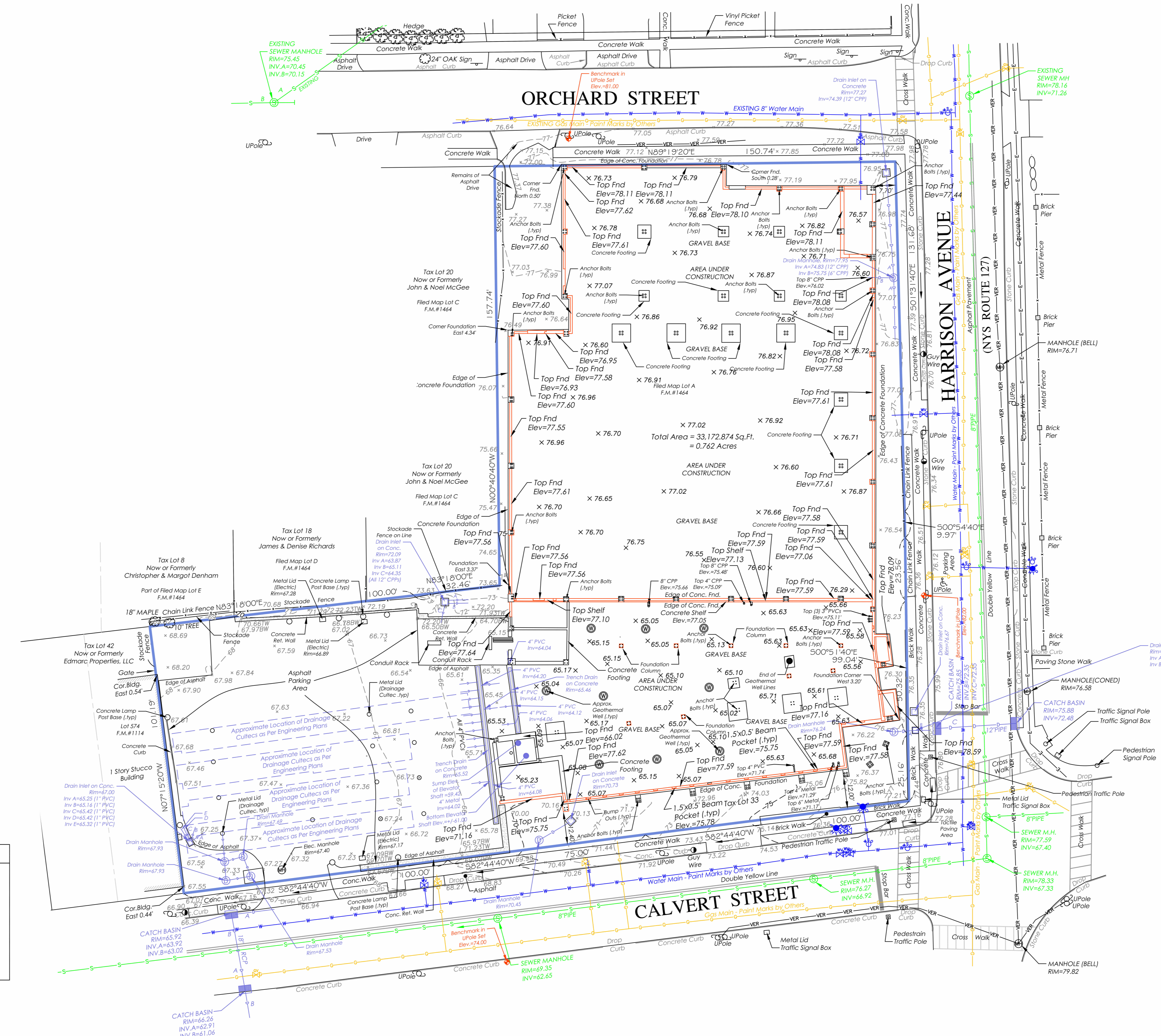


Project: 17-356	Reference: 10-216
Field Survey By: BFC/CR	Drawn By: DAB/IC
Project Manager: BFC	Checked By: BFC/DM

AS BUILT FOUNDATION AND TOPOGRAPHY

Job No. 2020-1005	Date 09/05/2023
Scale AS NOTED	Drawn / Checked - / -
Sheet Number	

V-002



Only copies from the original of this topography map marked with an original of the Land Surveyors embossed seal or red colored seal shall be considered to be true, valid copies.

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Possession only where indicated.

Adjacent property lines and easements not surveyed or certified. Access to adjacent rights of way, easements and public or private lands not guaranteed or certified.

Underground utilities shown hereon are approximate and should be verified before excavating. Additional underground utilities are not shown or certified. Encroachments and structures below grade, if any, not shown or certified.

Subject to covenants, easements, restrictions, conditions and agreements of record.

This map is prepared to show topography only and is not to be used for title transfer purposes. Map may not be certified to title companies and/or banks.

Tree species shown hereon to be verified by a licensed arborist and are not certified by surveyor.

Elevations shown hereon generally in accordance with North American Vertical Datum 88.

LEGEND

MANHOLES	MANHOLES
DRAIN INLETS/CATCH BASINS	DRAIN INLETS/CATCH BASINS
GAS VALVE/GAS BOX	GAS VALVE/GAS BOX
WATER VALVE	WATER VALVE
HYDRANT	HYDRANT
WATER SHUT OFF VALVE	WATER SHUT OFF VALVE
UTILITY POLE	UTILITY POLE
LIGHT POST	LIGHT POST
TOP OF CURB	TOP OF CURB
BOTTOM OF CURB	BOTTOM OF CURB
GEOTHERMAL WELL	GEOTHERMAL WELL

LEGEND

WATER MAIN	WATER MAIN
DRAINAGE PIPE	DRAINAGE PIPE
GAS MAIN	GAS MAIN
SANITARY SEWER MAIN	SANITARY SEWER MAIN
ELECTRICAL LINE	ELECTRICAL LINE
VERIZON LINE	VERIZON LINE

Below ground utilities shown hereon as per delineation by others. Paint marks set in street by others & drawings supplied by utility companies. Additional utilities may exist, not shown.

Surveyed: October 7, 2017
Map Prepared: October 17, 2017
Map Revised: February 18, 2019 to show structures and topography on Tax Lots 34 and 37.
Map Revised: September 5, 2023 to show updated topography
Map Revised: October 11, 2024 to show as built foundation and updated topography

By: *Daniel T. Merritt*
New York State Licensed Land Surveyor No.050604

TC MERRITTS LAND SURVEYORS
394 BEDFORD ROAD • PLEASANTVILLE • NY 10570
(914) 769-8003 • survey@tcmeritts.com



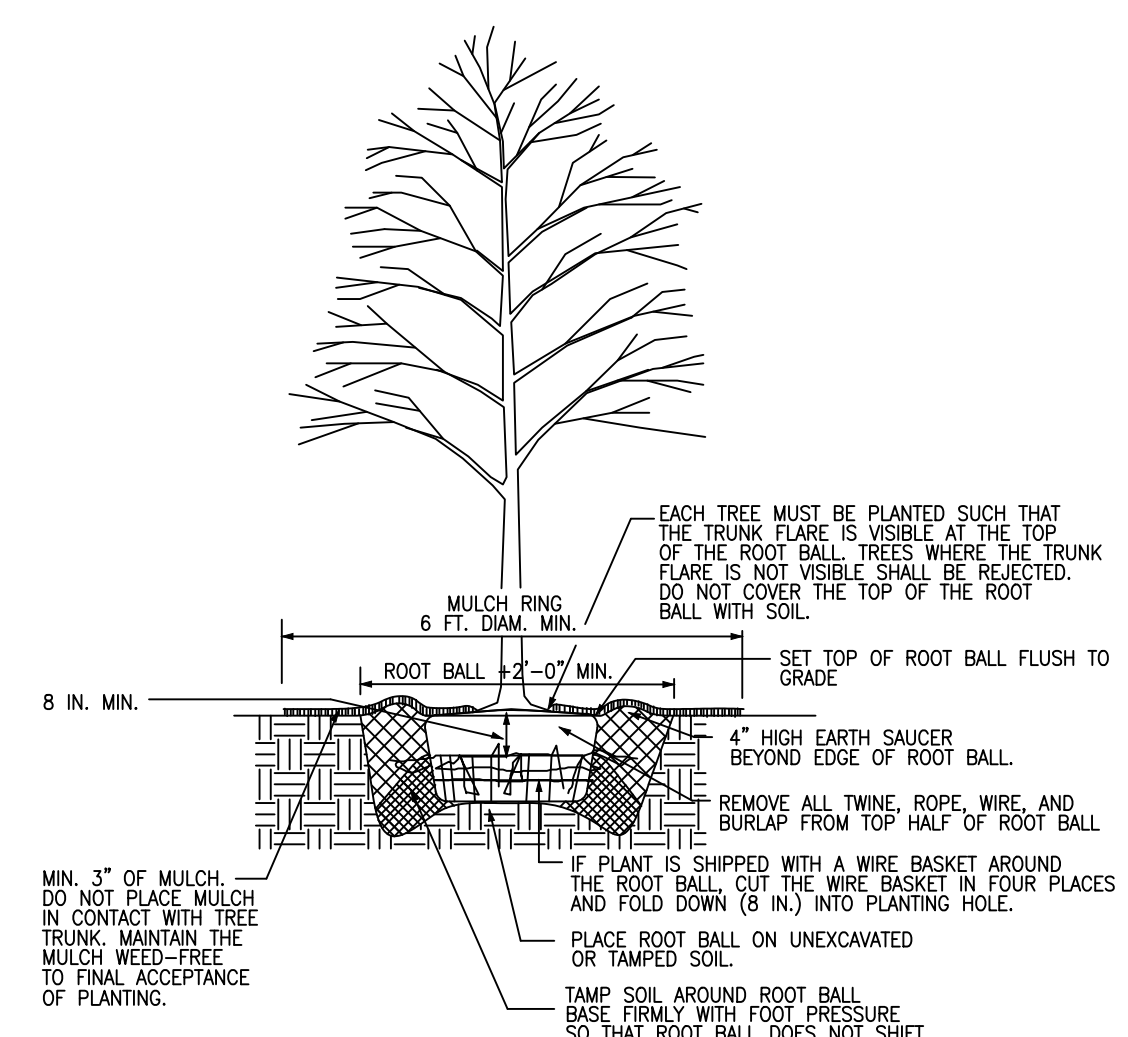
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ALL RIGHTS RESERVED. UNAUTHORIZED REPLICATION OR ELECTRONIC TRANSMISSION WITHOUT PERMISSION IS A VIOLATION OF APPLICABLE LAWS.

PARKING LOT SIGN SCHEDULE		
AA	NO PARKING	MUTCD # R8-3a
BB	NO PARKING 6:00 AM TO 5:00 PM	MUTCD # R8-3HP TIMES AS SPECIFIED BY OWNER (1) ARROW LT & (1) ARROW RT
CC	PERMITTED PARKING	MUTCD # R7-8 (WITHOUT ARROW)
DD	VAN	MUTCD # R7-8P
EE	NO PARKING ANY TIME	MUTCD # R7-1
FF	MATCH STYLE OF MUTCD # R7-1	INFORMATION SIGN: "RECREATION CENTER PARKING ONLY"
GG	MATCH STYLE OF MUTCD # R7-1	*LIMIT 16 TON AXLE WEIGHT DO NOT ENTER IF EXCEEDING HD-20*

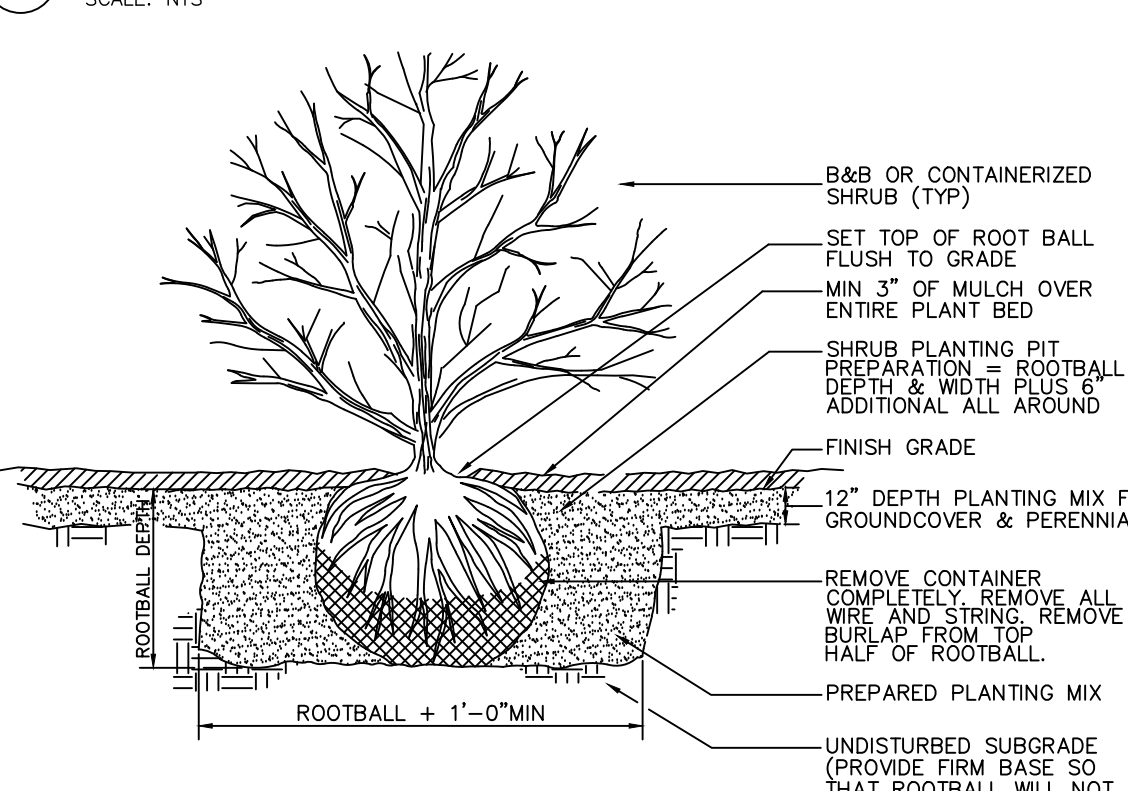
SEE DWG C100 FOR STREET SIGNS

SITE LIGHTING

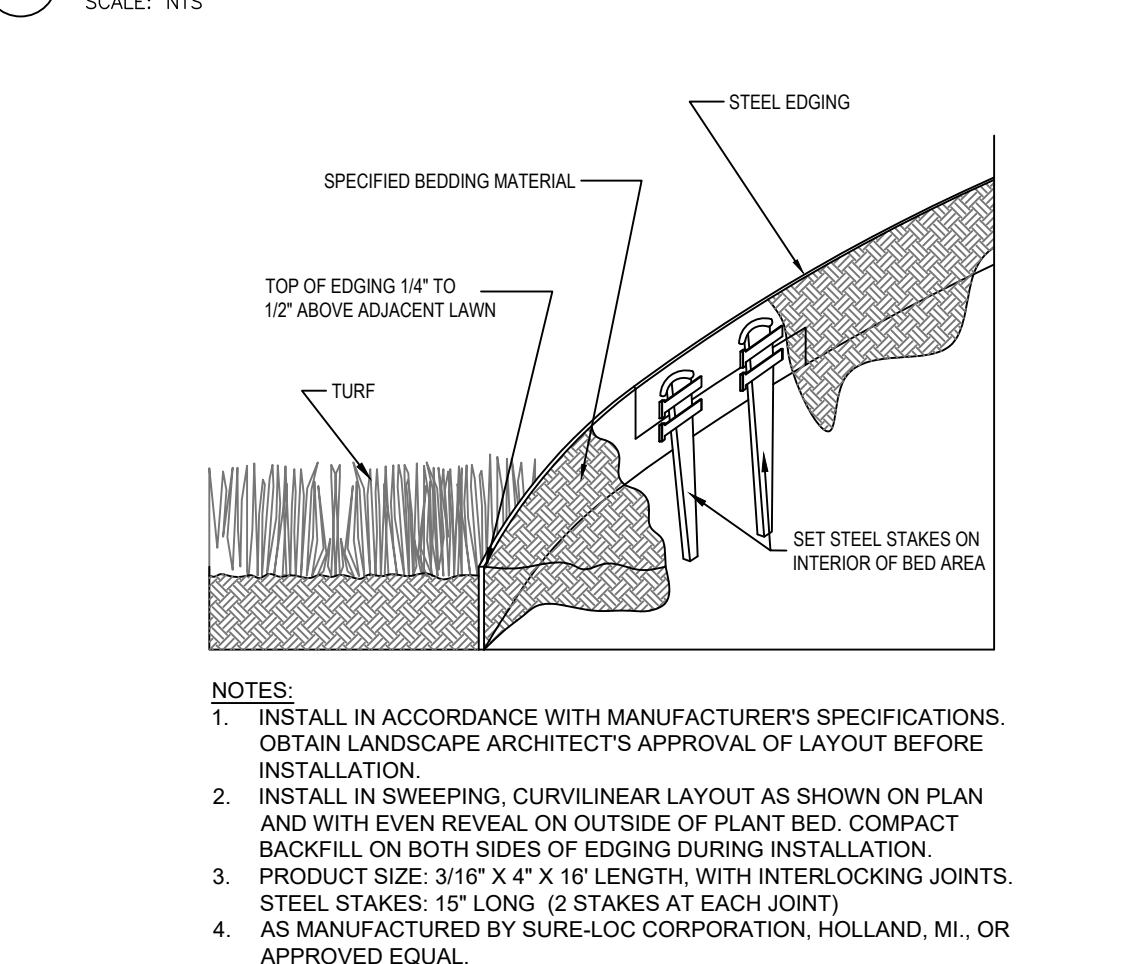
1. LIGHTING SHOWN ON THIS PLAN:
 - 1.1. PARKING LOT POLE LIGHTS: (6) BEGA 89522K4
 - 1.2. SOUTH SIDEWALK BOLLARD LIGHTS: (6) BEGA 84430, 3500K
 - 1.3. EAST GROUND MOUNTED UPLIGHTS: (6) BEGA 77125
 - 1.4. REFER TO ARCHITECTURAL PLANS FOR BUILDING MOUNTED LIGHTS
 - 1.5. REFER TO DWG E-010, E-011 & E-001 FOR ADD. INFORMATION
2. PARKING LOT ILLUMINATION LEVELS:
 - 2.0 FC AVG. 5.6 FC MAX, 0.1 FC MIN, 28.00 AVG/MIN, 56.0 MAX/MIN BY INTERNATIONAL LIGHTS. 4242/3



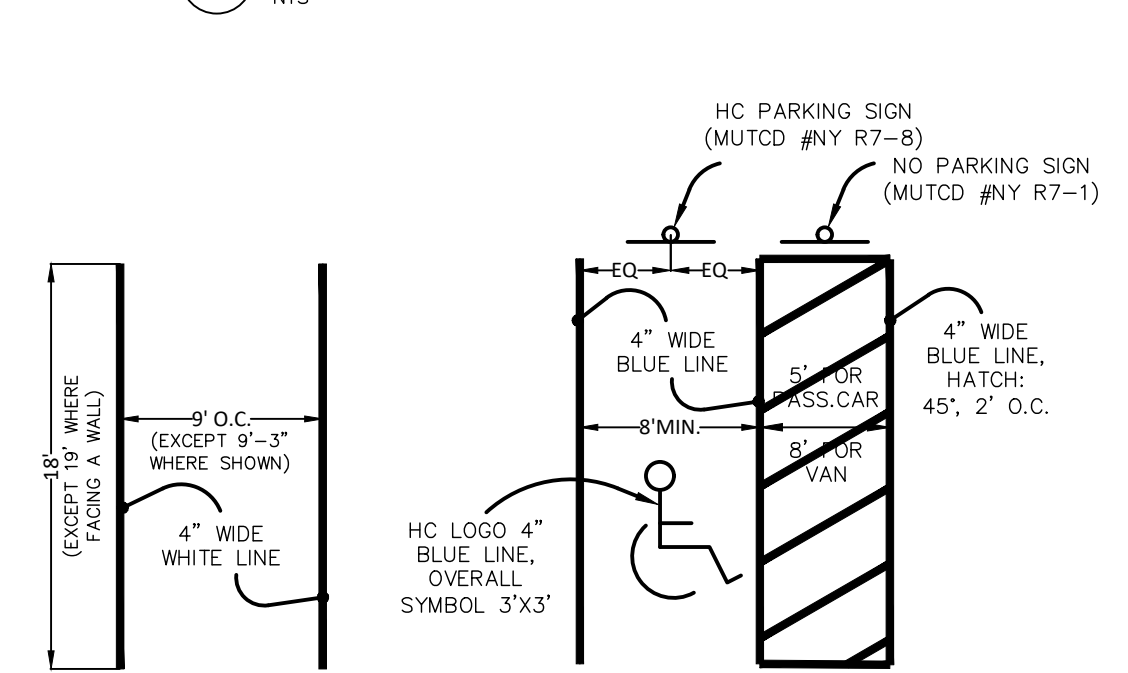
TREE PLANTING DETAIL



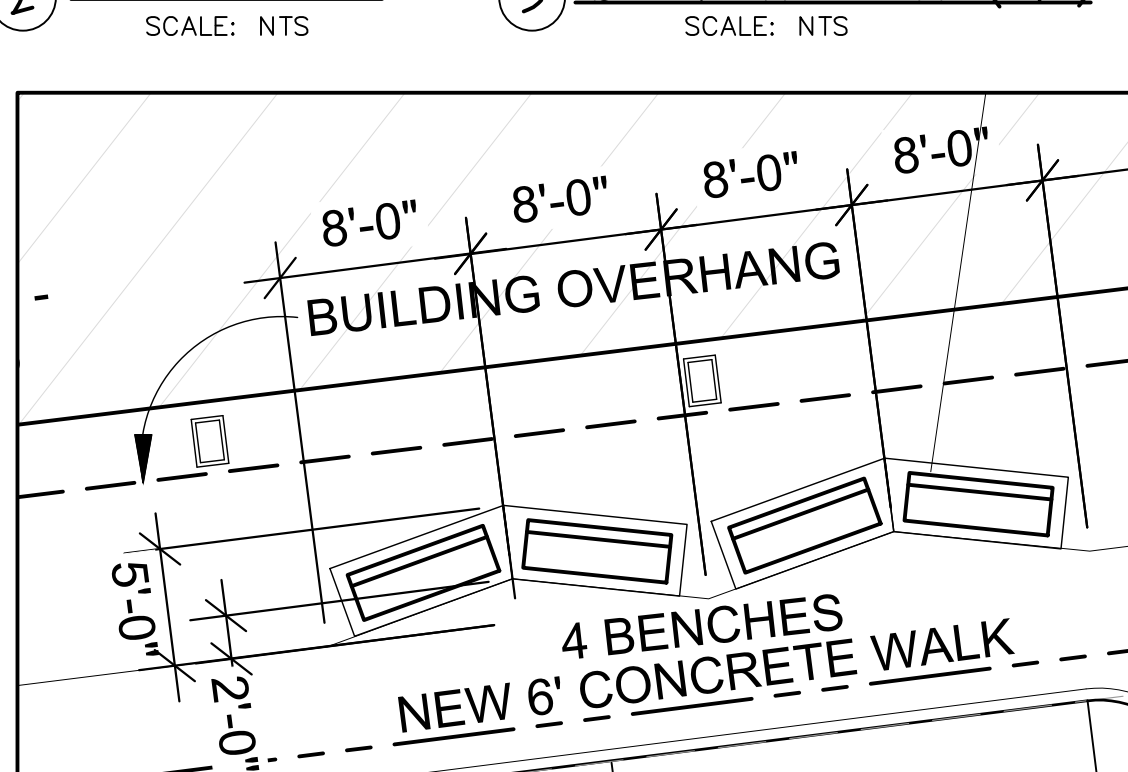
SHRUB PLANTING DETAIL



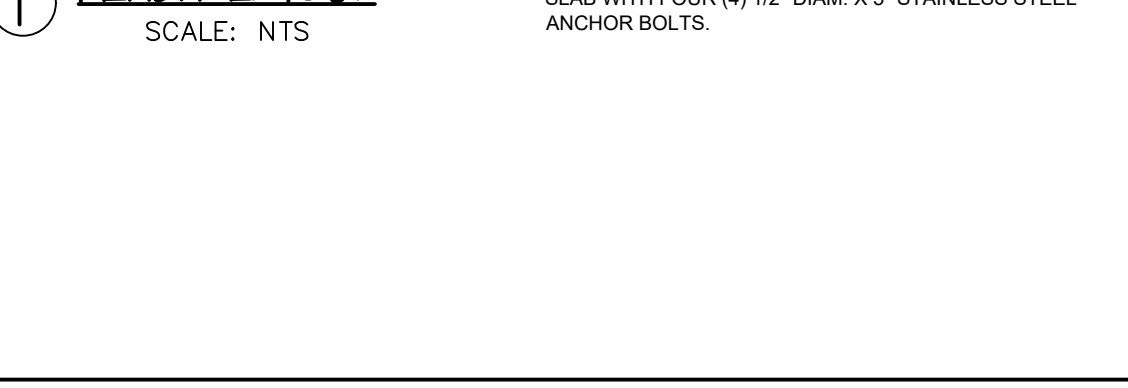
STEEL LANDSCAPE EDGING



PARKING STALL



STEEL PICKET FENCE



BENCH LAYOUT

PLANTING NOTES

1. PLANT SIZES AND GRADING SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014) OF THE AMERICAN ASSOCIATION OF NURSEYMEN. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, FULLY FORMED AND IN A HEALTHY CONDITION FREE OF INSECTS, PESTS, DISEASE OR DAMAGE AT THE TIME OF INSTALLATION.
2. ALL PLANT MATERIALS MAY BE SUBJECT TO INSPECTION AND REJECTION BY THE ARCHITECT AT ANY TIME PRIOR TO FINAL ACCEPTANCE OF THE WORK.
3. OBTAIN ARCHITECT'S APPROVAL OF PLANT SUBSTITUTIONS AND TIME OF PLANTING PRIOR TO DELIVERY OF MATERIALS TO THE SITE.
4. OBTAIN ARCHITECT'S APPROVAL OF SEED MIXTURES AND TIME OF SEEDING PRIOR TO DELIVERY OF MATERIALS TO THE SITE.
5. STAKE OR FLAG PROPOSED PLANT LOCATIONS FOR APPROVAL BY THE ARCHITECT PRIOR TO COMMENCING PLANTING.
6. NOTIFY ARCHITECT AT LEAST 72 HOURS IN ADVANCE OF STARTING PLANTING OPERATIONS. RECEIVE APPROVAL FOR LAYOUT OF ALL BED LINES AND TREE LOCATIONS PRIOR TO INSTALLATION.
7. PLANTING GUARANTEE & REPLACEMENT: THE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR ONE FULL YEAR FROM THE TIME OF FORMAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL REPLACE ANY PLANT THAT IS DEAD OR IN AN UNHEALTHY OR UNSIGHTLY CONDITION THROUGH NO FAULT OF THE OWNER, IN THE OPINION OF THE OWNER'S REPRESENTATIVE. REPLACEMENTS, IF REQUIRED, SHALL BE EQUAL IN ALL RESPECTS TO THE ORIGINAL SPECIFICATIONS.
8. CONTRACTOR SHALL MAINTAIN ALL PLANTINGS UNTIL FINAL ACCEPTANCE OF THE WORK. MAINTENANCE INCLUDES WATERING AS MANY TIMES AS NEEDED TO MAINTAIN PLANT VIGOR.
9. CONTRACTOR SHALL BE FAMILIAR WITH LOCATIONS OF PRE-EXISTING ABOVE-GROUND AND BELOW-GROUND UTILITIES, MECHANICAL EQUIPMENT AND OTHER FEATURES IN THE WORK AREA BEFORE PROCEEDING WITH WORK AND PROTECT FROM DAMAGE IN PHASE 2 WORK. CONFLICTS WITH PLANTINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
10. CONTACT 'DIG SAFELY NEW YORK' #11 OR 1-800-962-7962 FOR LOCATION OF UNDERGROUND UTILITIES 72 HOURS PRIOR TO STARTING ANY EXCAVATION.
11. TREES NEED NOT BE STAKED EXCEPT IN LOCATIONS EXPOSED TO WINDS OR HEAVY PEDESTRIAN TRAFFIC, OR AS DIRECTED BY THE ARCHITECT. ALL STAKES AND GUYING MATERIALS MUST BE REMOVED AFTER ONE YEAR.
12. ALL PLANTINGS ARE TO BE INSTALLED BY A QUALIFIED LANDSCAPE CONTRACTOR.
13. CONTRACTOR SHALL CARRY WORKMAN'S COMPENSATION INSURANCE AND COMPREHENSIVE GENERAL LIABILITY INSURANCE. CERTIFICATES WILL BE REQUIRED PRIOR TO SIGNING CONTRACTS.
14. IF THERE IS A DISCREPANCY BETWEEN PLANT QUANTITY SHOWN ON THE PLAN AND PLANT LIST SHALL PREVAIL.
15. TEST PLANTING SOIL FOR PH AND NUTRIENTS AND ADJUST IN ACCORDANCE WITH AGRONOMY LAB RECOMMENDATIONS PRIOR TO PLANTING.
16. REFER TO TREE, SHRUB AND GROUND COVER PLANTING DETAILS.
17. ALL EXPOSED SOIL AREAS IN THE WORK AREA ARE TO BE SEEDED AND MULCHED UNLESS OTHERWISE SHOWN.

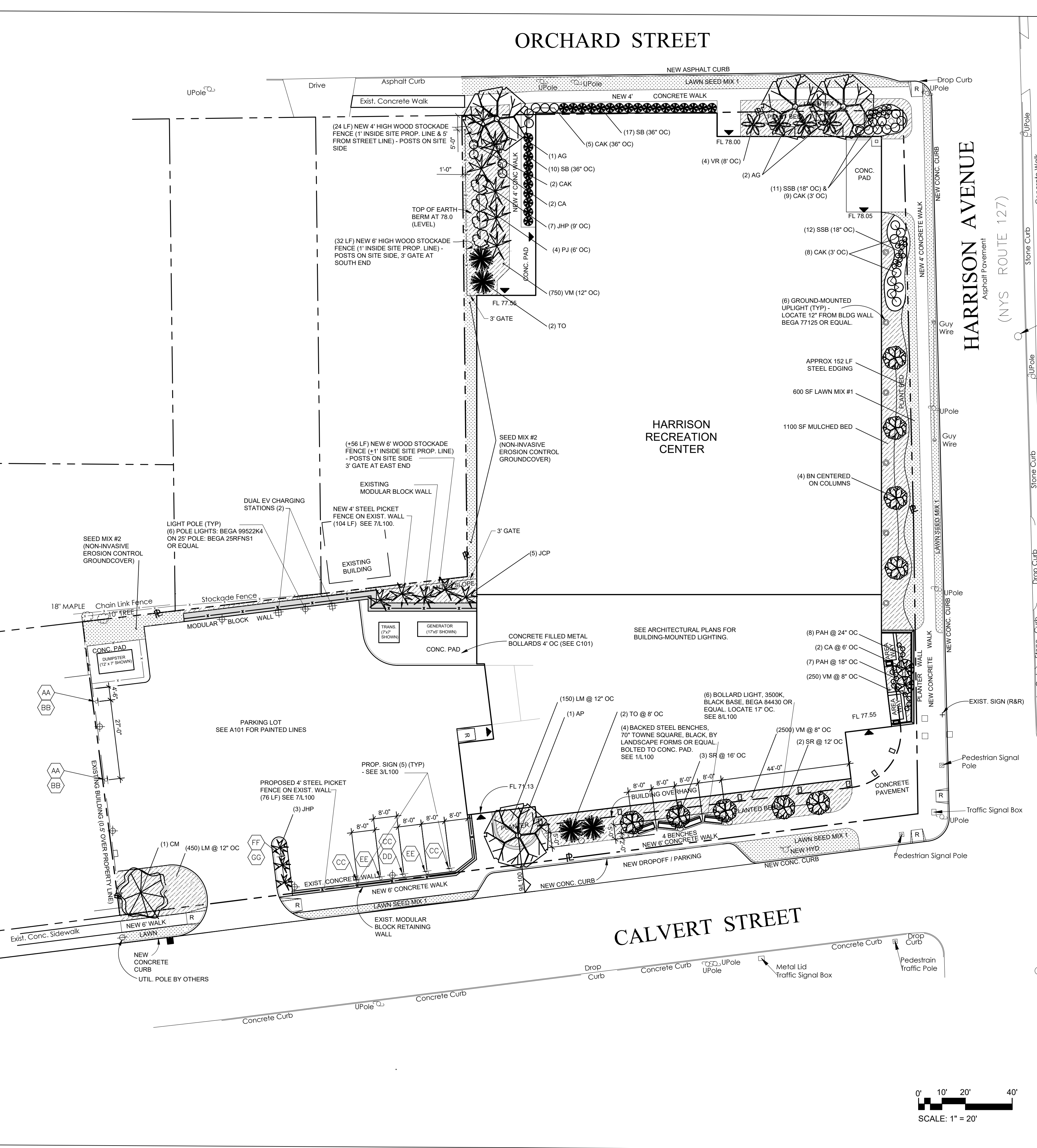
PLANT MATERIALS LIST

Key	Botanical Name	Common Name	Quant	Size	Planting Remarks
TREES					
AG	Acer griseum	Paperbark Maple	3	6'-7' HT	
BN	Betula nigra 'Heritage'	Heritage River Birch	4	2 1/2'-3' CAL. TRIPLE-STEM	
AP	Acer palmatum 'Sango-Kaku'	Coral Bark Maple	1	7'-8' HT	B&B, SPECIMEN QUALITY
SR	Syringa reticulata	Japanese Tree Lilac	5	2 1/2'-3' CAL. B&B	
TO	Thuja occidentalis 'Nigra'	Dark American Arborvitae	4	8'-10' HT	B&B
SHRUBS					
CM	Cornus mas	Cornelian Cherry	1	30"-36"	
CA	Cotoneaster aciculata	Cranberry Cotoneaster	4	2 GAL	PLANT 6' OC
JCP	Juniperus chinensis Pfritzeriana	Pfritzer Juniper	5	5 GAL	
JHP	Juniperus horizontalis Plumosa	Andorra Juniper	10	5 GAL	
PJ	Pieris japonica 'Mountain Fire'	Mountain Fire Andromeda	4	#3 CONT.	PLANT 6' OC
SB	Spiraea x bumalda 'Goldflame'	Goldflame Spirea	27	#3 CONT.	PLANT 36" O.C.
VR	Viburnum rhytidophyloides Alleg.	Allegheny Viburnum	4	3'-4'	PLANT 8' O.C.
GROUNDCOVERS					
LM	Liriope muscari Variegata	Blue Lilyturf	600	#1 CONT.	PLANT 12" O.C.
VM	Vinca minor	Periwinkle	3500	1 Yr	
ORNAMENTAL GRASSES					
CAK	Calamagrostis acutiflora Raf Flaecker	Karl Foerster Reed Grass	24	2 GAL	PLANT 36" OC
PAH	Pennisetum alopecuroides 'Hameln'	Hameln Dwarf Fountain Grass	15	2 GAL	PLANT 24" O.C.
SSB	Schizachyrium scoparium 'The Blues'	Little Bluestem	23	#1 CONT.	PLANT 18" O.C.

- NOTES:
1. All plants to be B&B or container grown unless otherwise indicated.
 2. All plant beds shall receive 3" depth of specified mulch over fabric weed barrier unless otherwise shown.
 3. Mulch shall be shredded bark mulch, black.

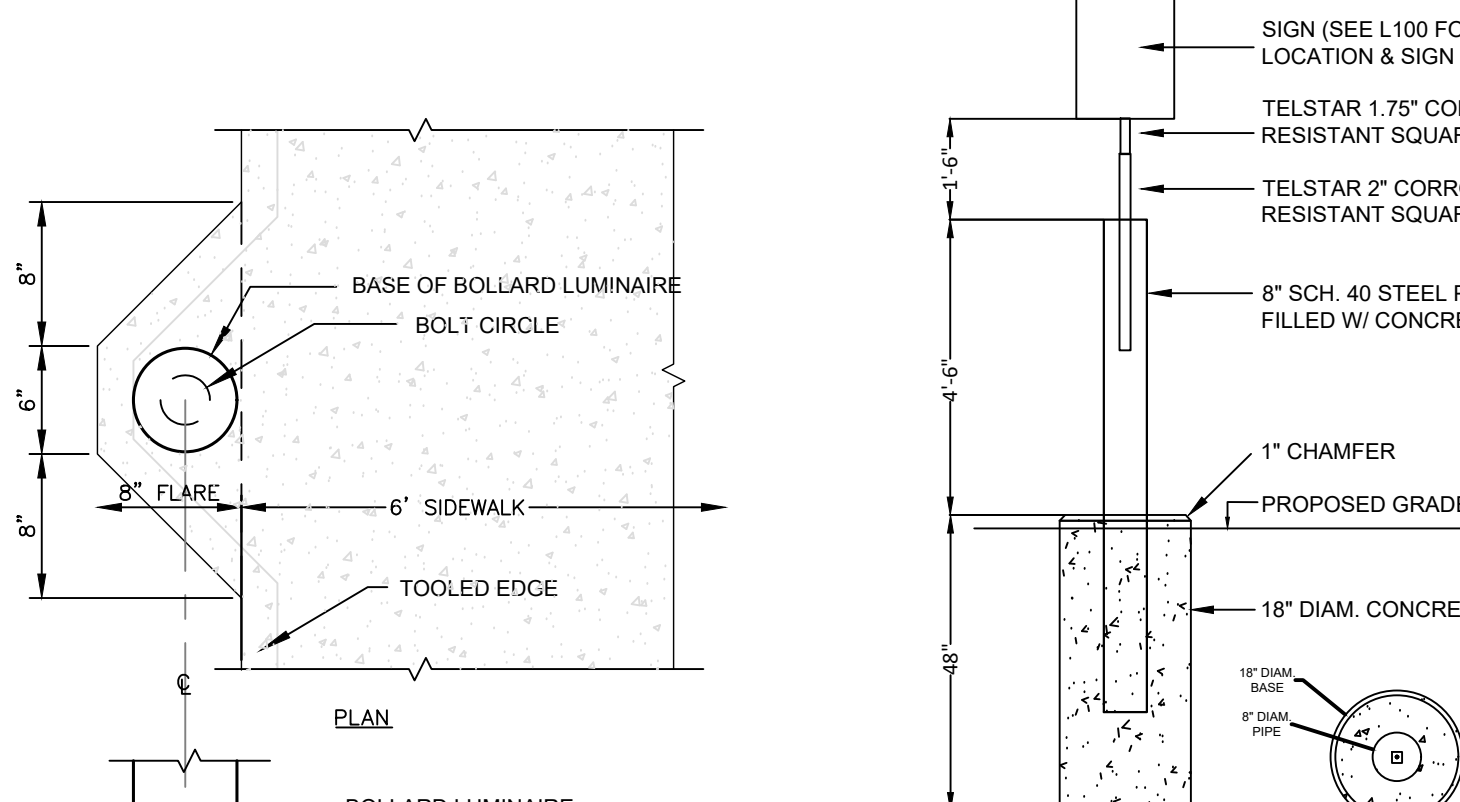
WOOD FENCING

1. WOOD FENCING PROPOSED ALONG PROPERTY LINE ADJOINING A RESIDENCE SHALL HAVE THE FINISHED SIDE OF FENCE FACING THE ADJOINING PROPERTY AND POSTS ON PROJECT SIDE SITE.



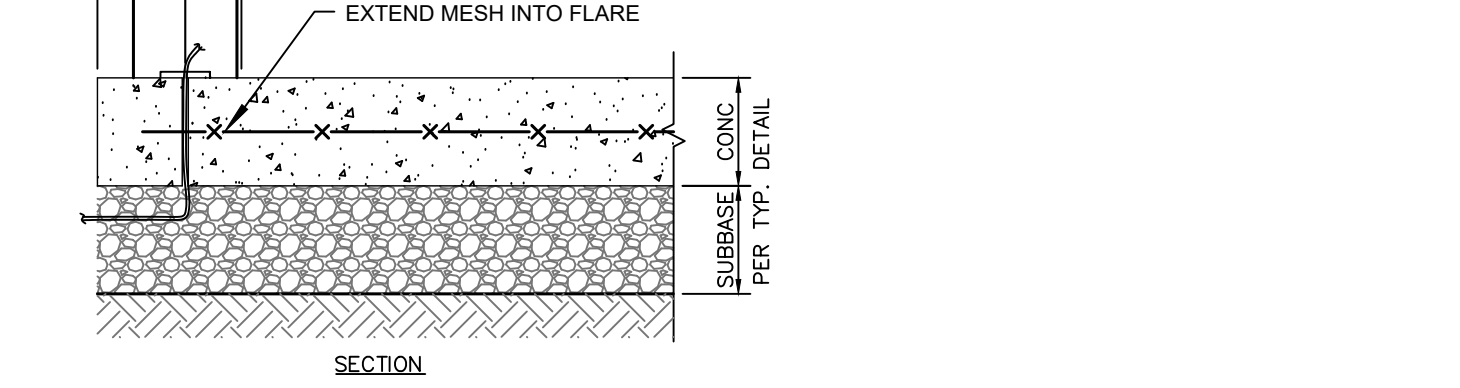
CONCRETE & MASONRY PLANTER WALL

SCALE: NTS



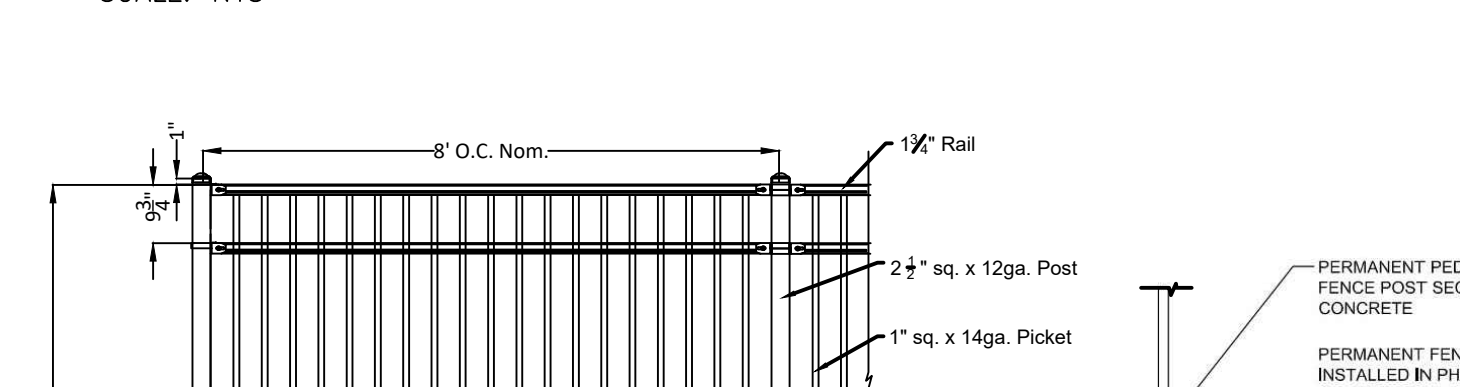
SIGN PLACEMENT AT PARKING STALL

SCALE: NTS



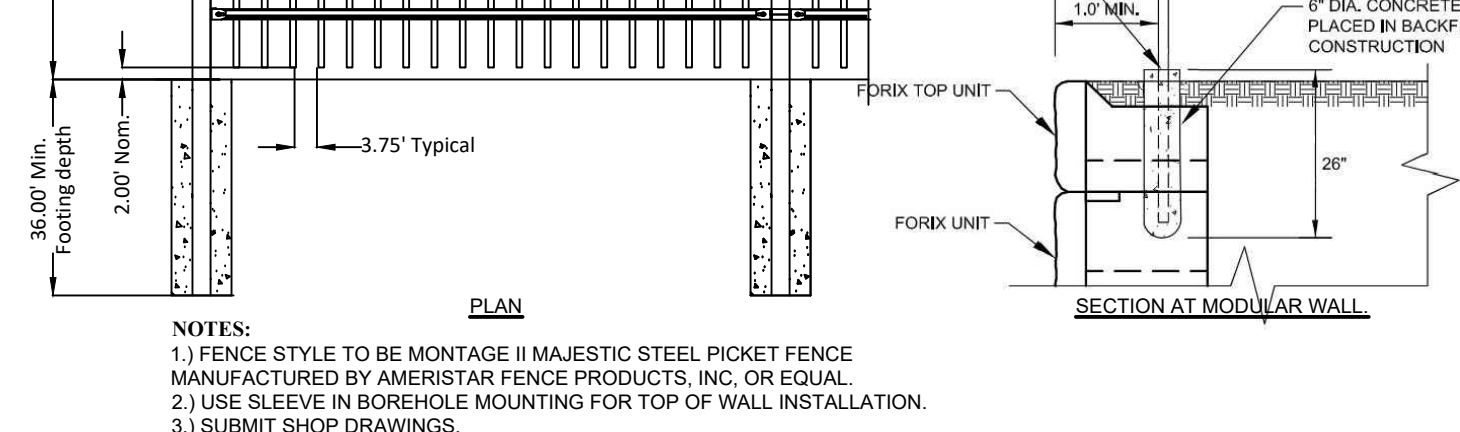
CONCRETE SIDEWALK INTEGRAL FLARE FOR LIGHT BOLLARD

SCALE: NTS



STEEL PICKET FENCE

SCALE: NTS



HARRISON RECREATION & COMMUNITY CENTER
 New Construction - Phase 2
 Town / Village of Harrison
 270 Harrison Avenue
 Harrison, NY 10528

KG+D listen imagine build
 KG+D ARCHITECTS, PC
 285 MAIN STREET-MOUNT KISCO, NEW YORK 10549
 P-914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

No	Date	Issue
4	06/05/2024	ISSUE FOR BID - PHASE 2
3	02/16/2024	PHASE 2 PERMIT ADDENDUM 1
2	01/24/2024	ISSUE FOR BID
1	01/16/2024	ISSUE FOR PERMIT

Professional Seal

LANDSCAPE PLAN & SITEWORK DETAILS

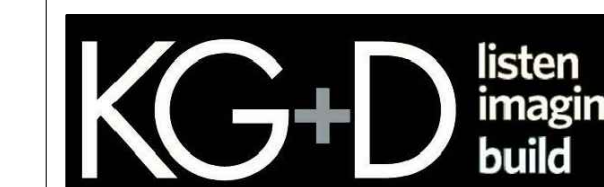
Job No. 2020-1005 Date 01/16/2024
 Plan Scale 1" = 20' Drawn / Checked FW/RLA
 Sheet Number **L100**

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



KG+D ARCHITECTS, PC

285 MAIN STREET - MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM



CREIGHTON MANNING ENGINEERING, LLP
3 WINNERS CIRCLE - ALBANY, NEW YORK 12204
P: (518) 446-0266 F: (518) 446-0267 WWW.CMEELP.COM

CONSTRUCTION DOCUMENTS

GENERAL NOTES:

- UNLESS OTHERWISE NOTED ALL ITEM NUMBERS FOR SPECIFIC WORK TASKS RELATE TO THE NEW YORK STATE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING AND GIVEN CONDITIONS, ELEVATIONS AND DIMENSIONS SHOWN ON THE PLANS. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL MAKE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS, AS APPROVED BY THE ENGINEER. ALL FIELD CONDITIONS AND DIMENSIONS SHALL BE NOTED ON THE AS-BUILT DRAWINGS SUBMITTED FOR APPROVAL.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF CONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH FIELD CONDITIONS.
- THE CONTRACTOR IS ADVISED THAT ADDITIONAL NOTES WILL BE FOUND ON SUBSEQUENT SHEETS OF THE PLANS AND SUCH NOTES, WHILE PERTAINING TO THE SPECIFIC DRAWINGS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
- IF THE ENGINEER NOTIFIES THE CONTRACTOR OF ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THE AFFECTED AREA SHALL BE DISCONTINUED AND IMMEDIATE ACTION SHALL BE TAKEN TO CORRECT THE SITUATION TO THE SATISFACTION OF THE ENGINEER BEFORE WORK IS RESUMED.
- ALL EXISTING PAVEMENT AND SHOULDER SURFACES THAT ARE TO BE RESURFACED SHALL BE CLEANED IN ACCORDANCE WITH SECTION 633 (CONDITIONING OF EXISTING PAVEMENT) OF THE NYS DOT STANDARD SPECIFICATIONS.
- ALL EXISTING TRAFFIC SIGNS REMOVED BY THE CONTRACTOR WITH A NYS DOT STICKER ON THE BACK OF THE PANEL SHALL BECOME THE PROPERTY OF THE NYS DOT. SIGNS WILL BE STORED AND LOCAL STATE RESIDENCY NOTIFIED FOR PICKUP. ALL OTHER EXISTING SIGNS SHALL BECOME THE PROPERTY OF TOWN OF MALTA.
- ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.
- THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING EDGE OF PAVEMENT ALONG ALL RIGHTS-OF-WAY.
- SUBMITTALS, CATALOG CUTS, SAMPLES, AND SHOP DRAWINGS MUST BE RECEIVED, REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ORDERING OR FABRICATION OF MATERIALS AND PRIOR TO INSTALLATION OF MATERIALS. FAILURE TO DO SO MAY RESULT IN TIME DELAYS. THE CONTRACTOR WILL NOT BE ENTITLED TO COMPENSATION FOR SAID TIME DELAYS, REMOVALS, OR REPLACEMENTS.
- THE CONTRACTOR SHALL PROVIDE AN ACI CERTIFIED CONCRETE FLAT WORK FINISHER TO SUPERVISE ALL HAND FINISHING PER THE STANDARD SPECIFICATION. CERTIFICATION SHALL BE PROVIDED TO THE ENGINEER.

GRADING NOTES:

- ALL GRADES SET IN THE FIELD TO BE COMPLETED BY A NEW YORK STATE LICENSED LAND SURVEYOR.
- CONTRACTOR SHALL PROVIDE DUST AND EROSION AND SEDIMENTATION CONTROL AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY ENGINEER.
- CONTRACTOR SHALL BLEND ALL NEW EARTHWORK INTO EXISTING GRADES AT LIMITS OF GRADING WORK. PROVIDE SMOOTH, ROUNDED TRANSITIONS AT ALL TOP AND BOTTOM OF SLOPES.
- EXCAVATION REQUIRED WITHIN 3 FEET OF EXISTING UTILITY LINES SHALL BE DONE BY HAND; DO NOT EXCAVATE SOIL WITH MACHINERY. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS.
- PRIOR TO PROJECT CLOSE-OUT, CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS FROM SITE. ALSO, ANY DAMAGE TO FIELD OR FACTORY APPLIED FINISHES SHALL BE REPAIRED.

ENVIRONMENTAL NOTES:

- DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM RED-MIX TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLAND OR WATERS. DESIGNATED WASH OUT AREAS TO BE APPROVED BY THE ENGINEER IN CHARGE.

UTILITY NOTES:

- LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED ON THE PLANS AS EXISTING AND/OR TO BE CONSTRUCTED ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OR HER OPERATIONS, AND TAKE NECESSARY PRECAUTIONS SUCH THAT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION IS PREVENTED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL "DIG SAFELY" (1-800-962-7962) TO HAVE UNDERGROUND UTILITIES LOCATED.

RIGHT OF WAY NOTES:

- ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIERS.
- IF THE CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE SURVEYOR OF RECORD (SEE SURVEY NOTE 1) FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (STANDARD SPECIFICATIONS SECTIONS 105-10 AND 625).
- THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE, ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORY REPAIRED OR ITEMS PLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08).

EROSION AND SEDIMENT CONTROL NOTES:

- THE CONTRACTOR UNDERTAKING SITE CONSTRUCTION OF THIS PROJECT MUST SIGN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) CERTIFICATION AND BE FAMILIAR WITH ALL REQUIREMENTS OF THE SWPPP AND REQUIREMENTS OF THE NYS DEC SPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITY PERMIT NO. GP-0-20-001.
- THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH THE TERMS OF THE NYS DEC SPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITY, PERMIT NO. GP-0-20-001. A COPY OF THE GENERAL PERMIT IS LOCATED IN THE SWPPP.
- A NOTICE OF INTENT (NOI) MUST BE SUBMITTED TO DEC IN ACCORDANCE WITH SPDES PERMIT NO. GP-0-20-001, A MINIMUM OF 5 DAYS PRIOR TO INITIATING WORK.
- THE SWPPP INCLUDES INFORMATION BASED ON THESE PLANS AND THE STORM WATER MANAGEMENT REPORT.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE THE ENGINEER CONDUCT AN ASSESSMENT OF THE SITE AND CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS HAVE BEEN ADEQUATELY INSTALLED. FOLLOWING COMMENCEMENT OF CONSTRUCTION, THE ENGINEER SHALL MAKE WEEKLY SITE INSPECTIONS AND SHALL PREPARE A REPORT AS REQUIRED BY THE GP-0-20-001.
- THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL INSPECTION REPORTS IN A SITE LOG BOOK, TO BE MAINTAINED ON SITE AND AVAILABLE TO THE PERMITTING AUTHORITIES UPON REQUEST.
- AT THE END OF EACH CONSTRUCTION DAY THE CONTRACTOR SHALL STREET SWEEP ADJACENT PUBLIC ROADS, INTERIOR SITE DRIVES AND PARKING AREAS TO REMOVE ANY DEBRIS FROM THE PAVED SURFACE. CLEAN STORM WATER STRUCTURES OF SEDIMENT FOLLOWING FINAL PAVING.
- AT COMPLETION OF CONSTRUCTION, THE SWPPP INSPECTOR AND THE MS4 (IF APPLICABLE) SHALL PERFORM A FINAL INSPECTION TO CERTIFY THAT THE SITE HAS UNDERGONE FINAL STABILIZATION AND THAT ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS HAVE BEEN REMOVED. UPON COMPLETION OF CONSTRUCTION THE SWPPP MONITORING PROFESSIONAL SHALL PERFORM THE FINAL INSPECTION WITH THE SITE CONTRACTOR AND CERTIFY THAT THE POST CONSTRUCTION STORMWATER PRACTICES HAVE BEEN INSTALLED PER THE SWPPP UPON CERTIFICATION OF COMPLETION A NOTICE OF TERMINATION (NOT) SHALL BE FILED WITH NYSDEC.
- THE TOWN OF HARRISON IS RESPONSIBLE FOR POST CONSTRUCTION MAINTENANCE AND OPERATIONS.
- CONTRACTOR SHALL UTILIZE TEMPORARY PROTECTION MEASURES LEFT ONSITE FROM THE PHASE 1 CONSTRUCTION (INCLUDING STABILIZED CONSTRUCTION ACCESS, TEMPORARY CONSTRUCTION FENCE, & INLET PROTECTION) AND SHALL MAINTAIN SAME FOR THE DURATION OF CONSTRUCTION.

SURVEY NOTES:

- BASE MAPPING WITHIN ORCHARD STREET, HARRISON AVENUE, AND CALVERT STREET RIGHTS-OF-WAY PREPARED BY T.C. MERRITT'S LAND SURVEYORS, 394 BEDFORD ROAD, PLEASANTVILLE, NY 10570, LAST REVISED SEPTEMBER 5, 2023.

ACCESS AND NOTIFICATION NOTES:

- THE CONTRACTOR SHALL PROVIDE SAFE AND ADEQUATE ACCESS INTO OR THROUGH THE WORK SITE BY EMERGENCY VEHICLES AT ALL TIMES.
- THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE NYS SUPPLEMENT, AND EFFORTS SHALL BE COORDINATED WITH THE ENGINEER, AND/OR THE TOWN. TEMPORARY PAVEMENT SHALL BE PLACED WITHIN 48 HOURS OF COMPLETION OF EXCAVATION AND BACKFILL OPERATIONS WITHIN THE PAVEMENT LIMITS.
- THE CONTRACTOR SHALL NOTIFY THE STATE AND/OR THE TOWN 72 HOURS PRIOR TO ANY STREET OR LANE CLOSURES OR ANY WORK AFFECTING TRAFFIC SIGNALS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND RESIDENTIAL PROPERTIES AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER. RAMPING CONSTRUCTION TO PROVIDE ACCESS MAY BE CONSTRUCTED WITH SUBBASE MATERIAL EXCEPT THAT TEMPORARY ASPHALT CONCRETE SHALL BE PLACED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE PEDESTRIAN ACCESS AT ALL TIMES.

PROJECT SPECIFIC NOTES:

- THE CONTRACTOR SHALL NOT BEGIN WARMING UP HIS OR HER EQUIPMENT BEFORE 7:30 AM, NOR KEEP THE EQUIPMENT RUNNING AFTER 8:00 PM. MAINTENANCE OF EQUIPMENT ON SITE WHICH REQUIRES THE EQUIPMENT TO BE RUNNING SHALL BE APPROVED BY THE ENGINEER IF THE MAINTENANCE IS PERFORMED OUTSIDE THE WORK HOUR RESTRICTIONS.
- THE CONTRACTOR SHALL SECURE A NYS DOT HIGHWAY WORK PERMIT (PERM 33). THE CONTRACTOR SHALL SECURE THE BONDS AND PAY ALL NYS DOT PERMIT FEES.
- IN ADDITION TO THE CURING REQUIREMENTS OF THE NYS DOT STANDARD SPECIFICATIONS, CONCRETE SIDEWALKS PLACED AFTER OCTOBER 15TH SHALL BE CURED USING WET BURLAP AND A PLASTIC COVERING, FOLLOWED BY A PENETRATING SEALER PRIOR TO THE FIRST FREEZE. THE COST FOR THESE ITEMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THE PROJECT.
- IF IT IS DISCOVERED THAT THE MINIMUM CLEARANCES FROM PRIMARY AND/OR SECONDARY POWER CONDUCTORS AS REQUIRED BY SECTION 23 OF THE NATIONAL ELECTRIC SAFETY CODE (ANSI STANDARD C2-1997) AND LOCAL UTILITY CODES CANNOT BE ACHIEVED, THE UTILITY COMPANY OWNING SUCH CONDUCTORS SHALL BE NOTIFIED IN WRITING OF THE PROBLEM. NO FURTHER WORK SHALL BE DONE UNTIL SAID POWER LINES HAVE BEEN RELOCATED TO PROVIDE THE PROPER CLEARANCES.
- IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE THAT SERVICE AT HIS OWN EXPENSE. HE SHALL NOT CEASE HIS WORK OPERATION UNTIL THAT SERVICE IS RESTORED.
- CONSTRUCTION TRAFFIC ON ORCHARD STREET IS PROHIBITED. APPROVAL IS REQUIRED FROM THE TOWN/VILLAGE OF HARRISON FOR ANY USE OF ORCHARD STREET.
- TRAFFIC CONTROL MEASURES, INCLUDING TRAVEL LANE AND SIDEWALK CLOSURES, SHALL BE INSTALLED PRIOR TO WORK ACTIVITY IN OR CLOSE TO THE PUBLIC RIGHT OF WAY, AND REMOVED AFTER WORK ACTIVITY HAS CEASED. LOCATION AND DURATION OF PERIODIC LANE CLOSURES SHALL BE DETERMINED BY THE CONTRACTOR IN COORDINATION WITH TOWN AUTHORITIES TO ACCOMMODATE ACCESS TO AND SAFETY AROUND WORK AREAS.
- REFER TO DWG C105 FOR TYPICAL WORK ZONE TRAFFIC CONTROL MEASURES.
- COORDINATE ON-SITE ACTIVITIES TO AVOID CONSTRUCTION TRAFFIC IN THE PARKING LOT OVER THE COMPLETED R-TANK STORMWATER DETENTION SYSTEM. NO LOADS HEAVIER THAN A STANDARD ASHTO HS-20 LOAD SHALL BE ALLOWED OVER THE SYSTEM AT ANY TIME.
- PAVING OF PARKING LOT ASPHALT TOP COURSE SHALL USE MAXIMUM 6 TON SMOOTH DRUM ROLLER IN STATIC MODE.

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No.	Date	Issue
2	06/05/2024	ISSUE FOR BID - PHASE 2
1	01/16/2024	ISSUE FOR PERMIT

Sheet Title

GENERAL NOTES

Job No. 2020-1005 Date 01/24/2024

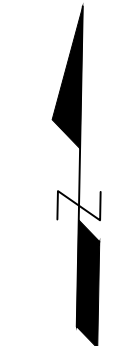
Scale AS NOTED Drawn / Checked Tg/GB

Sheet Number

C001

REMOVALS NOTES:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER'S REPRESENTATIVE ON ALL MATERIALS TO BE REMOVED AND DISPOSED OF OFF SITE. ALL HANDLING OF MATERIALS TO BE REMOVED AND DISPOSED OF MUST BE DONE IN A SAFE, LEGAL MANNER, IN ACCORDANCE WITH ALL LOCAL, COUNTY, STATE, FEDERAL AND ANY OTHER APPLICABLE REGULATIONS.
- ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL UNLESS OTHERWISE NOTED.
- AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH AND SHARP EDGE AND PROTECTED UNTIL ABUTTING MATERIALS ARE INSTALLED.
- EXISTING CURB TO BE REPLACED SHALL BE COMPLETELY REMOVED.
- LIMIT OF WORK LINE IS COINCIDENT WITH THE LIMIT OF WORK (LW) LINE SHOWN. CONSTRUCTION FENCE SHALL BE RESTORED TO THE PERIMETER SHOWN AT THE END OF EVERY WORK DAY.

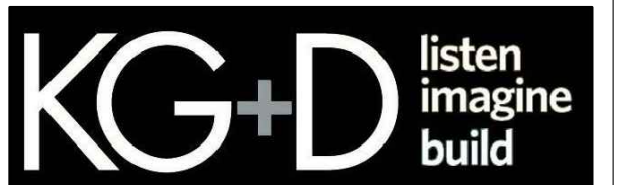


HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
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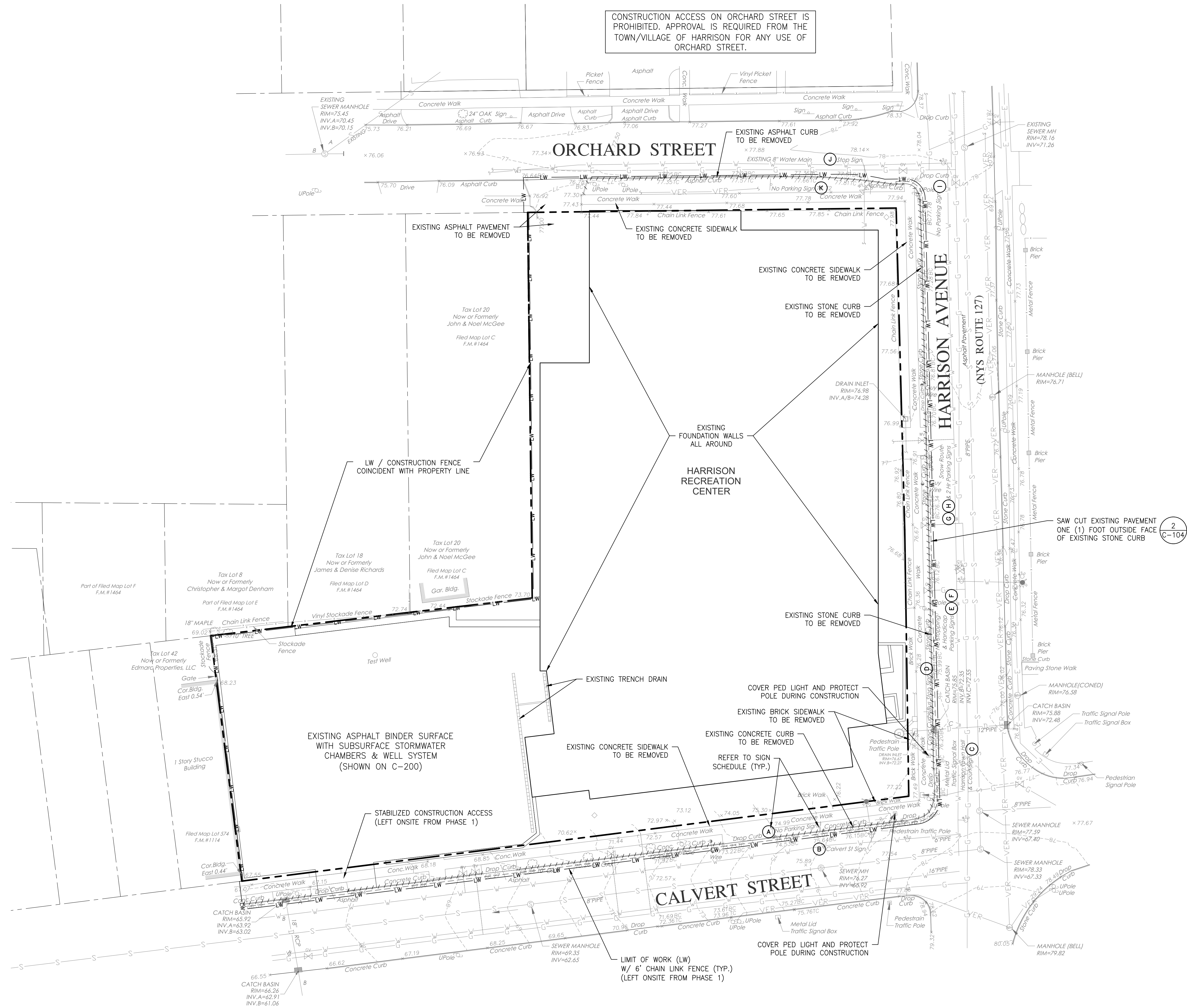
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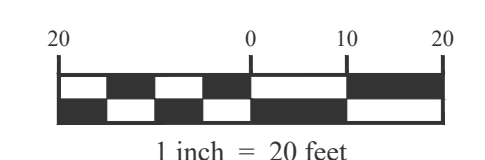
CREIGHTON MANNING ENGINEERING, LLP
3 WINNERS CIRCLE • ALBANY, NEW YORK 12204
P: (518) 448-0286 F: (518) 448-0287 WWW.CMELLP.COM

CONSTRUCTION DOCUMENTS

SIGN SCHEDULE		
(A)		SIGN TO BE REMOVED
(B)		SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11) (C-104)
(C)		SIGN TO REMAIN
(D)		SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11) (C-104)
(E) (F)		SIGNS TO REMAIN
(G) (H)		SIGNS TO REMAIN
(I)		SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11) (C-104)
(J)		SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11) (C-104)
(K)		SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11) (C-104)
(L) (M)		NEW SIGNS TO BE ADDED (1 POST) TIMES AS SPECIFIED BY OWNER
SEE DWG L100 FOR NEW SIGNS IN PARKING LOT SEE DWG C101 FOR NEW SIGNS		



NOTE: THE EXISTING CONDITIONS SHOWN ON THIS PLAN REPRESENT CONDITIONS EXPECTED AT THE END OF PHASE 1 CONSTRUCTION. THIS INFORMATION SHALL BE SUPERSEDED BY AN AS-BUILT SURVEY NOT AVAILABLE AT THE TIME OF BIDDING BUT TO BE PROVIDED BY THE OWNER PRIOR TO BEGINNING OF PHASE 2 CONSTRUCTION.



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1	01/16/2024	ISSUE FOR PERMIT
2	06/05/2024	ISSUE FOR BID - PHASE 2

EXISTING CONDITIONS & REMOVALS PLAN

Job No.	2020-1005	Date	01/24/2024
Scale	AS NOTED	Drawn / Checked	TG/GB

Sheet Number
C100

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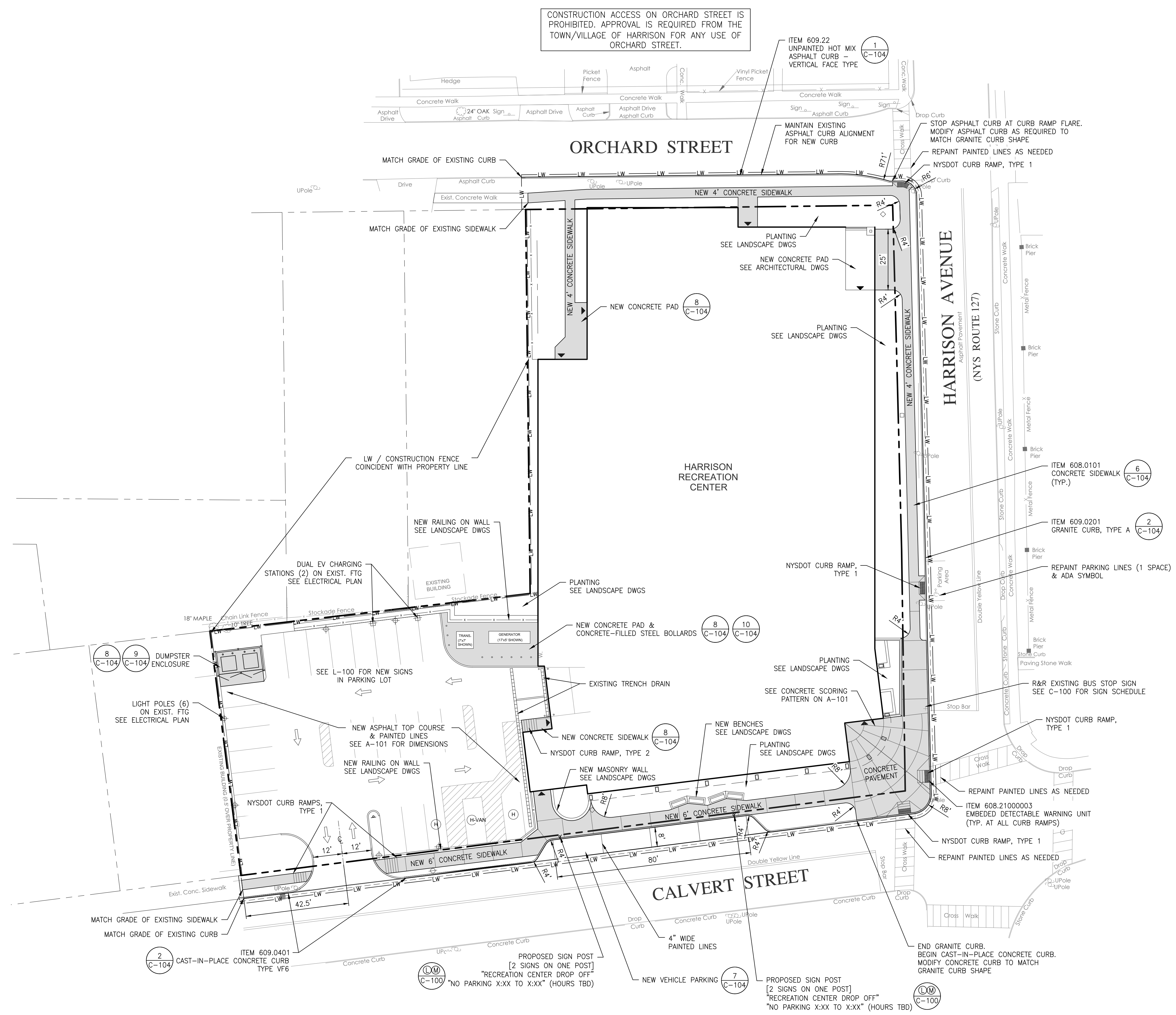
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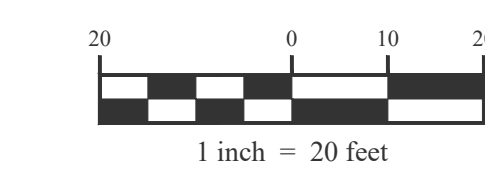
Professional Seal

No.	Date	Issue
3	06/05/2024	ISSUE FOR BID - PHASE 2
2	02/16/2024	PHASE 2 PERMIT ADDENDUM 1
1	01/16/2024	ISSUE FOR PERMIT

SITE LAYOUT PLAN

Job No. 2020-1005 Date 01/24/2024
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Sheet Number **C101**



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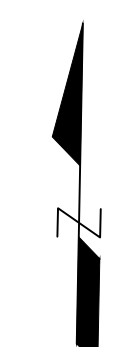
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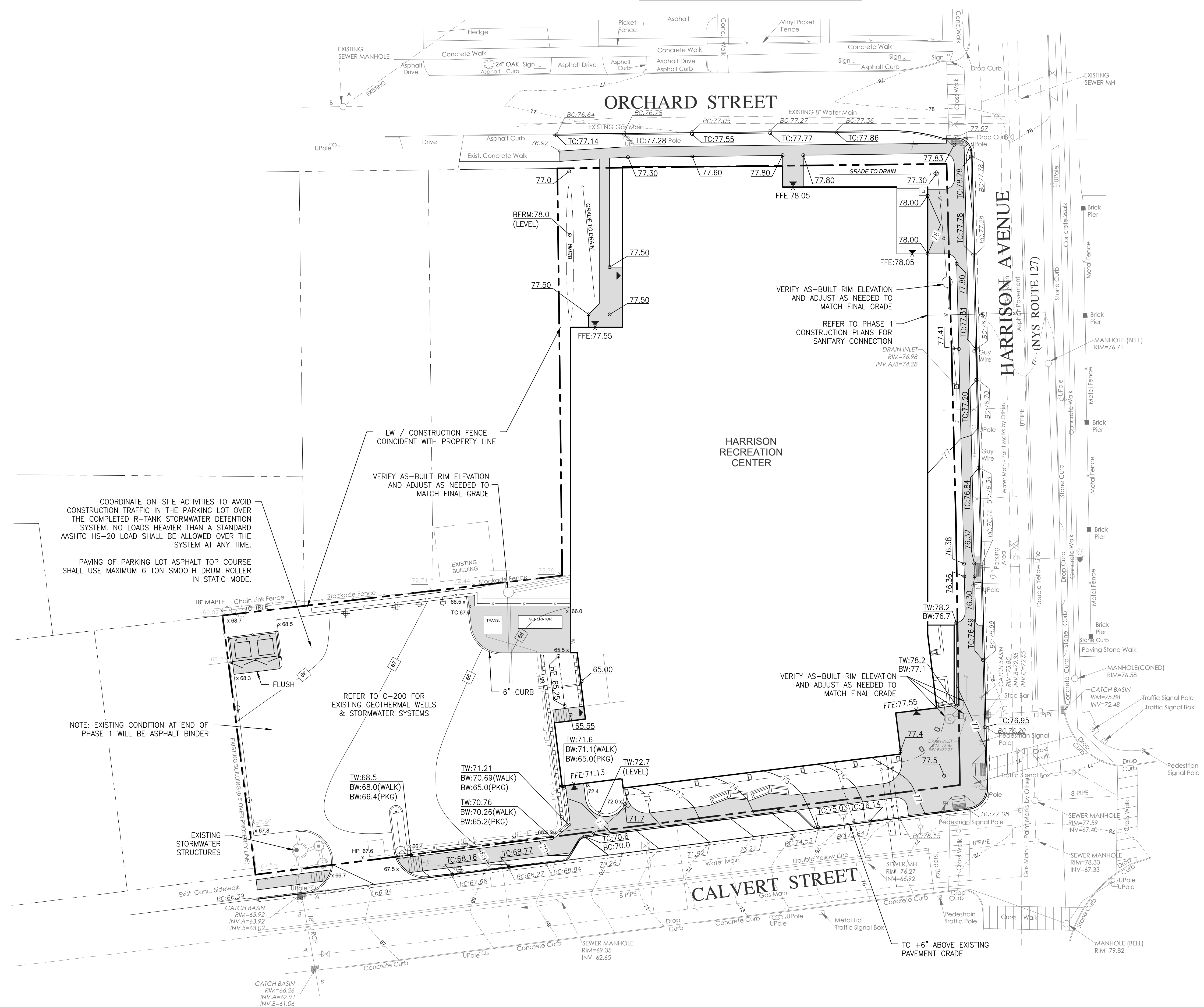
270 Harrison Avenue
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CONSTRUCTION DOCUMENTS



CONSTRUCTION ACCESS ON ORCHARD STREET IS PROHIBITED. APPROVAL IS REQUIRED FROM THE TOWN/VILLAGE OF HARRISON FOR ANY USE OF ORCHARD STREET.



COORDINATE ON-SITE ACTIVITIES TO AVOID CONSTRUCTION TRAFFIC IN THE PARKING LOT OVER THE COMPLETED R-TANK STORMWATER DETENTION SYSTEM. NO LOADS HEAVIER THAN A STANDARD ASHTO HS-20 LOAD SHALL BE ALLOWED OVER THE SYSTEM AT ANY TIME.
 PAVING OF PARKING LOT ASPHALT TOP COURSE SHALL USE MAXIMUM 6 TON SMOOTH DRUM ROLLER IN STATIC MODE.

NOTE: EXISTING CONDITION AT END OF PHASE 1 WILL BE ASPHALT BINDER

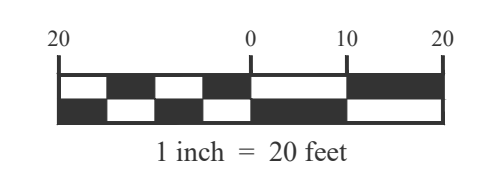
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No.	Date	Issue
2	06/05/2024	ISSUE FOR BID - PHASE 2
1	01/16/2024	ISSUE FOR PERMIT

SITE GRADING PLAN

Job No. 2020-1005 Date 01/24/2024
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Sheet Number **C102**



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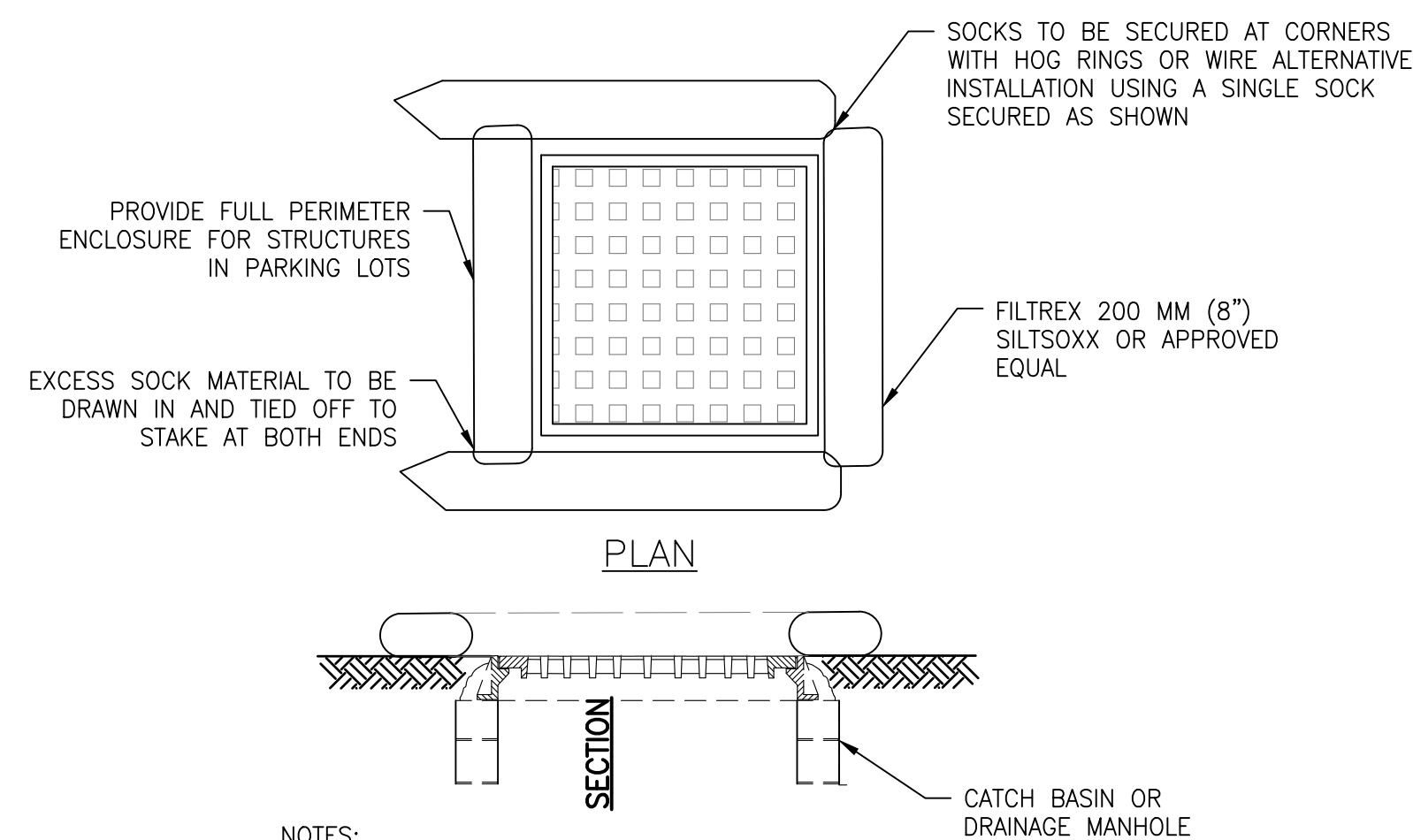
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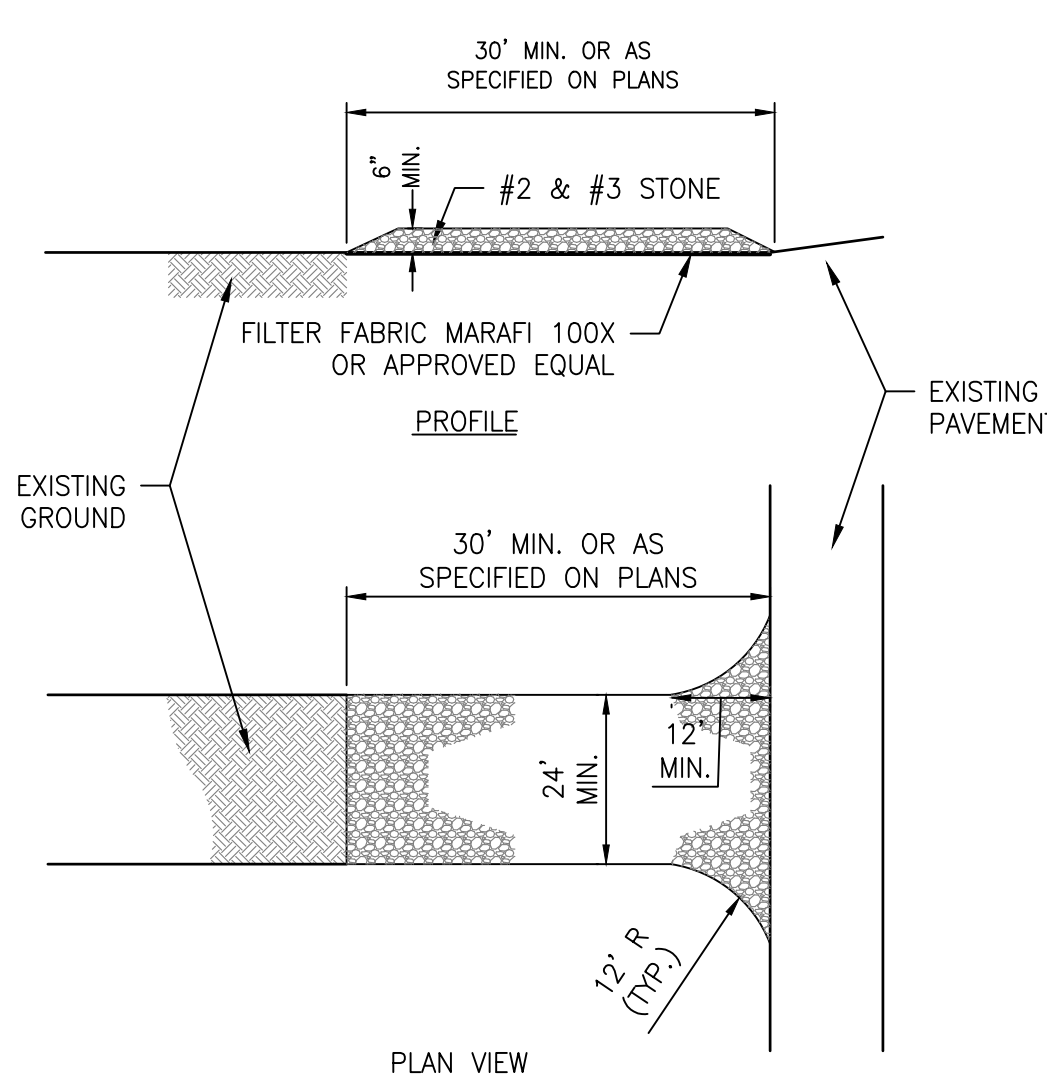
CONSTRUCTION DOCUMENTS



- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.
 2. SECURE FILTERSOCK TO GROUND AT BOTH ENDS.
 3. INLET PROTECTION SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN STABILIZED.

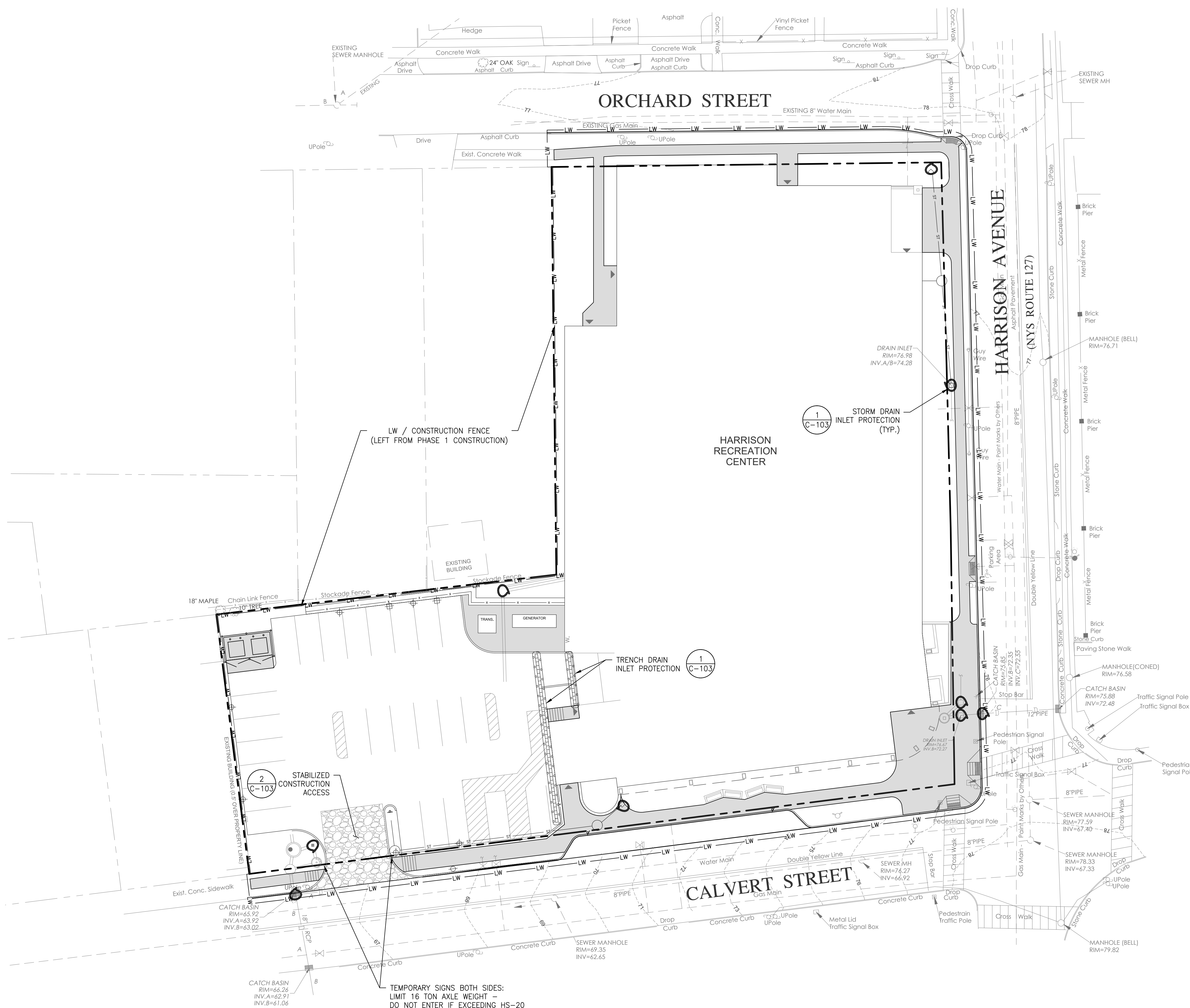
CONSTRUCTION ACCESS ON ORCHARD STREET IS PROHIBITED. APPROVAL IS REQUIRED FROM THE TOWN/VILLAGE OF HARRISON FOR ANY USE OF ORCHARD STREET.

1 TEMPORARY INLET FILTER SCALE: NTS



- NOTES:
1. STONE SIZE - USE MIXTURE OF #2 & #3 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - NOT LESS THAN FIFTY (50) FEET.
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. WIDTH - TWENTY-FOUR (24) FEET.
 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED ACROSS THE ACCESS IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 7. MAINTENANCE - THE ACCESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
 10. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL REMOVE MATERIALS AND RESTORE ENTRANCE AREA, ESTABLISHING VEGETATIVE COVER AS PER PLANS.

2 STABILIZED CONSTRUCTION ACCESS SCALE: NTS



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2	06/05/2024	ISSUE FOR BID - PHASE 2
1	01/16/2024	ISSUE FOR PERMIT
No.	Date	Issue

Sheet Title

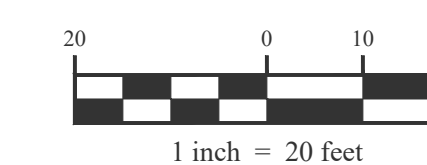
EROSION & SEDIMENT CONTROL PLAN

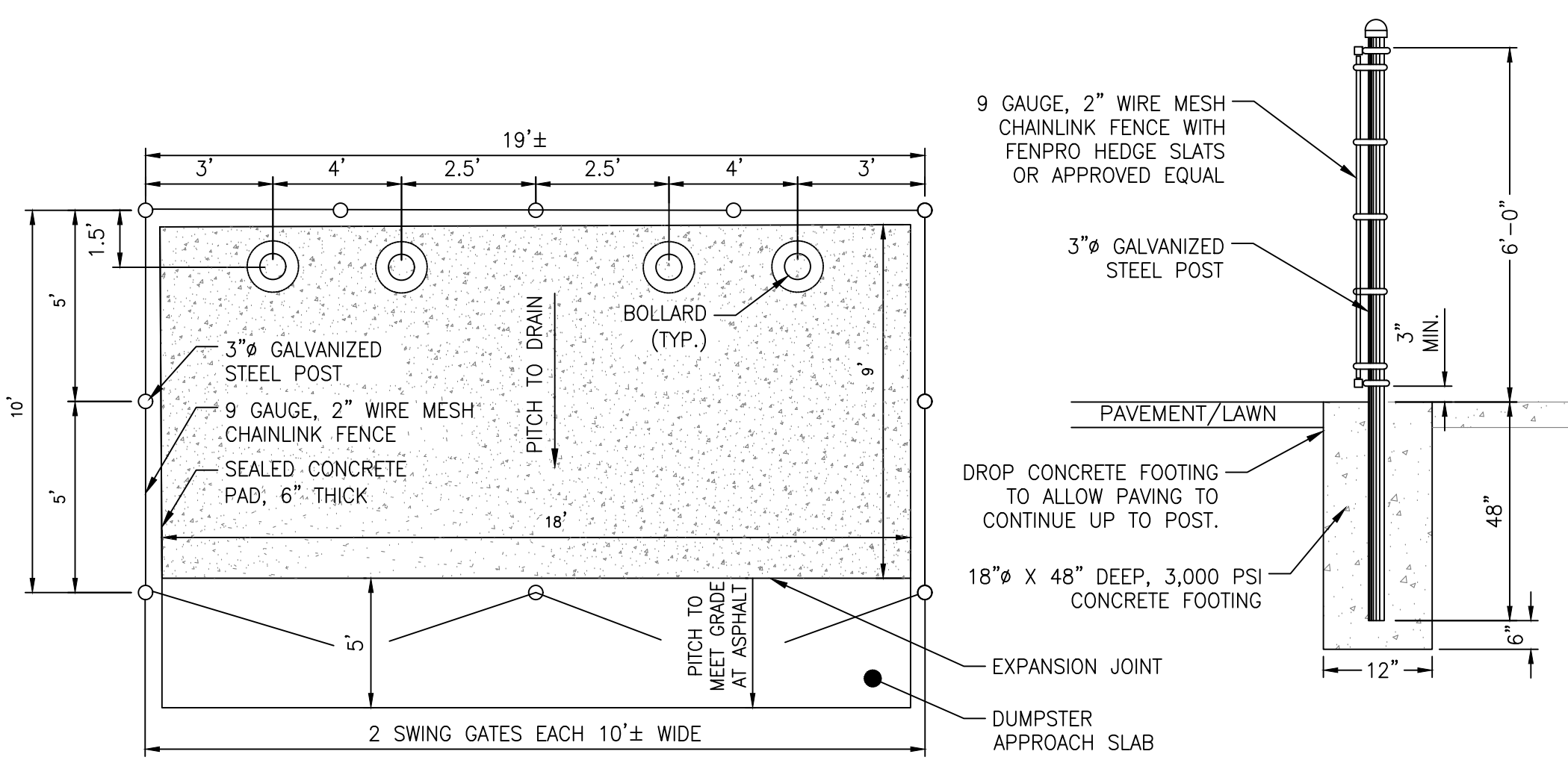
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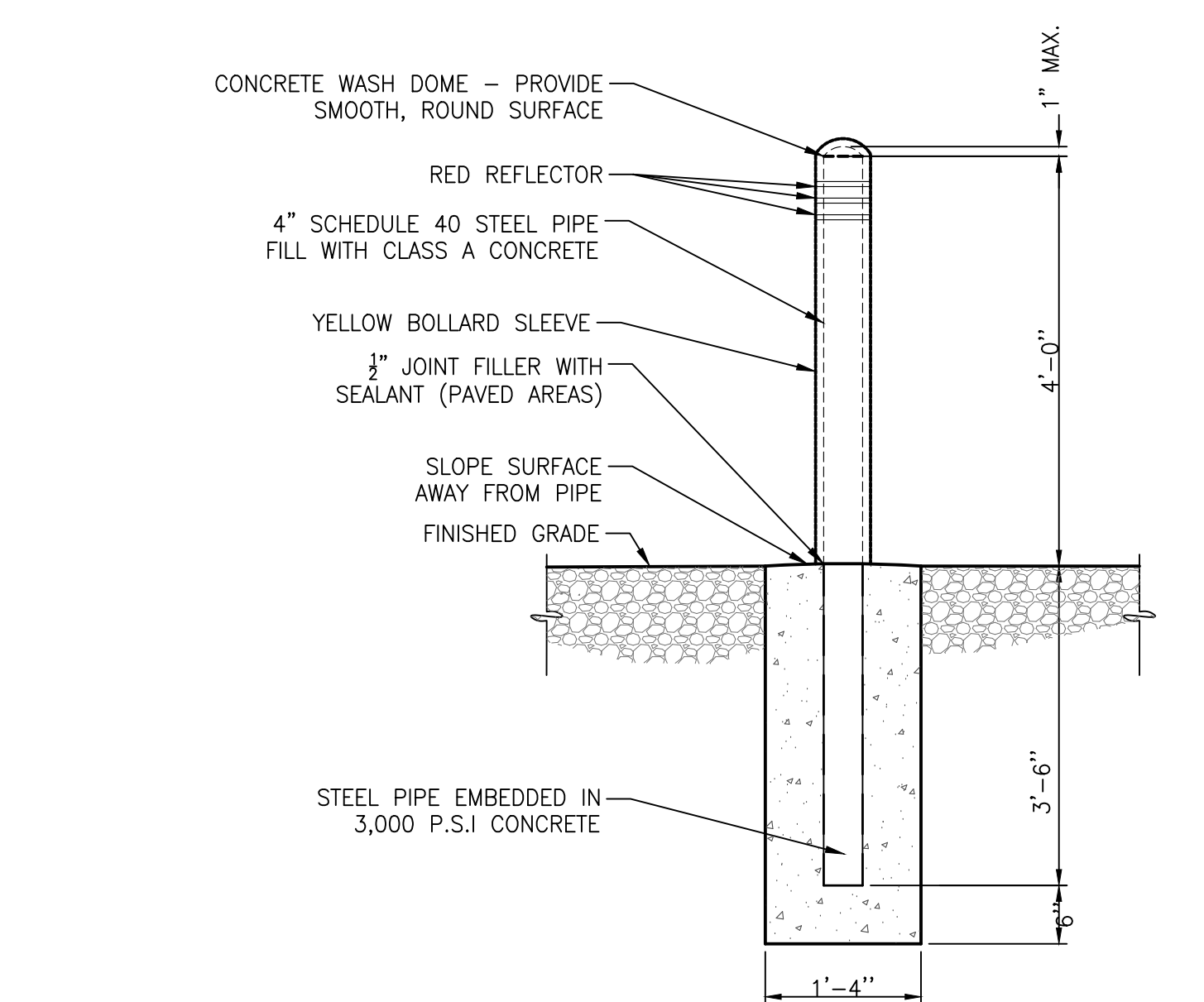
C103

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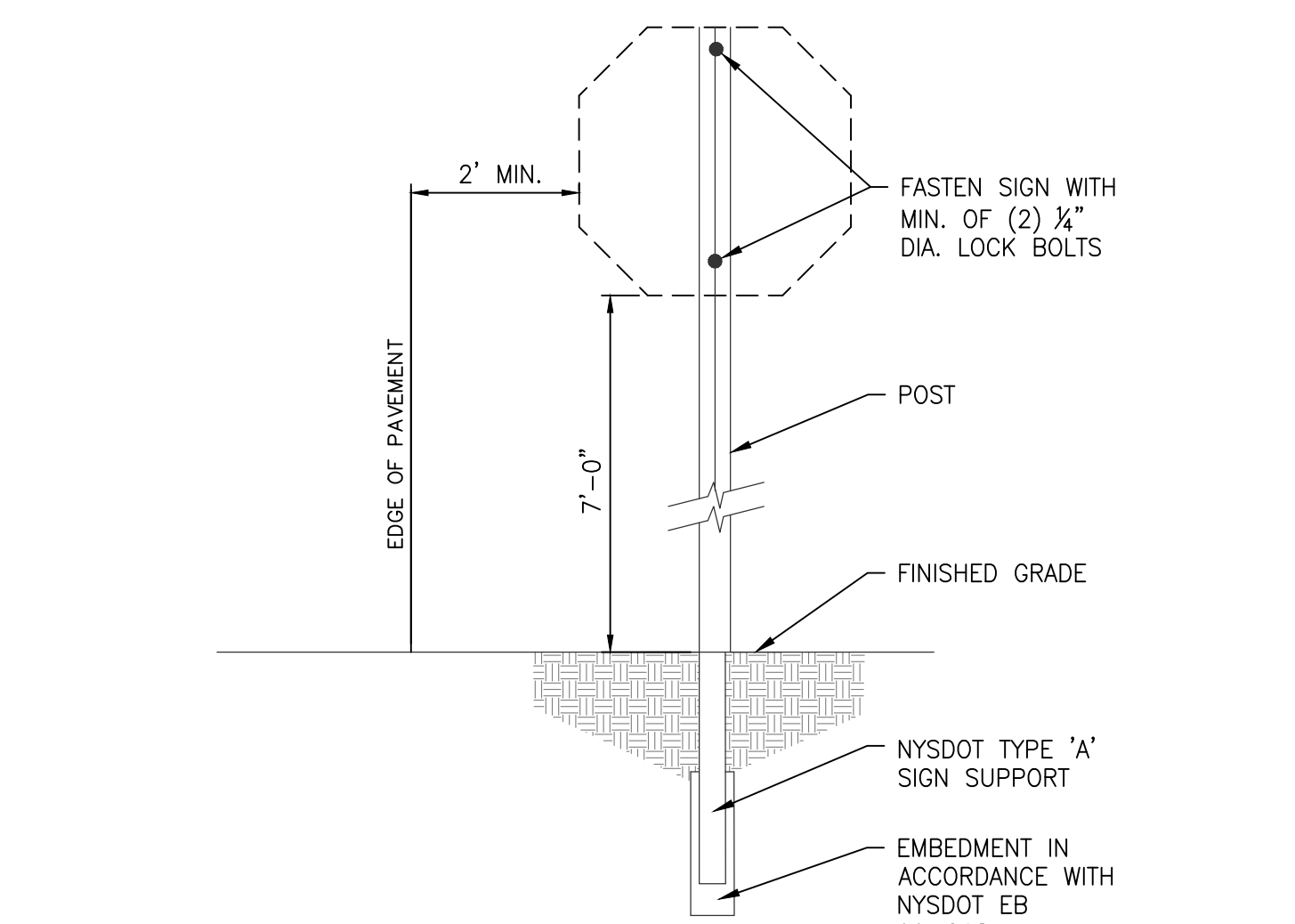




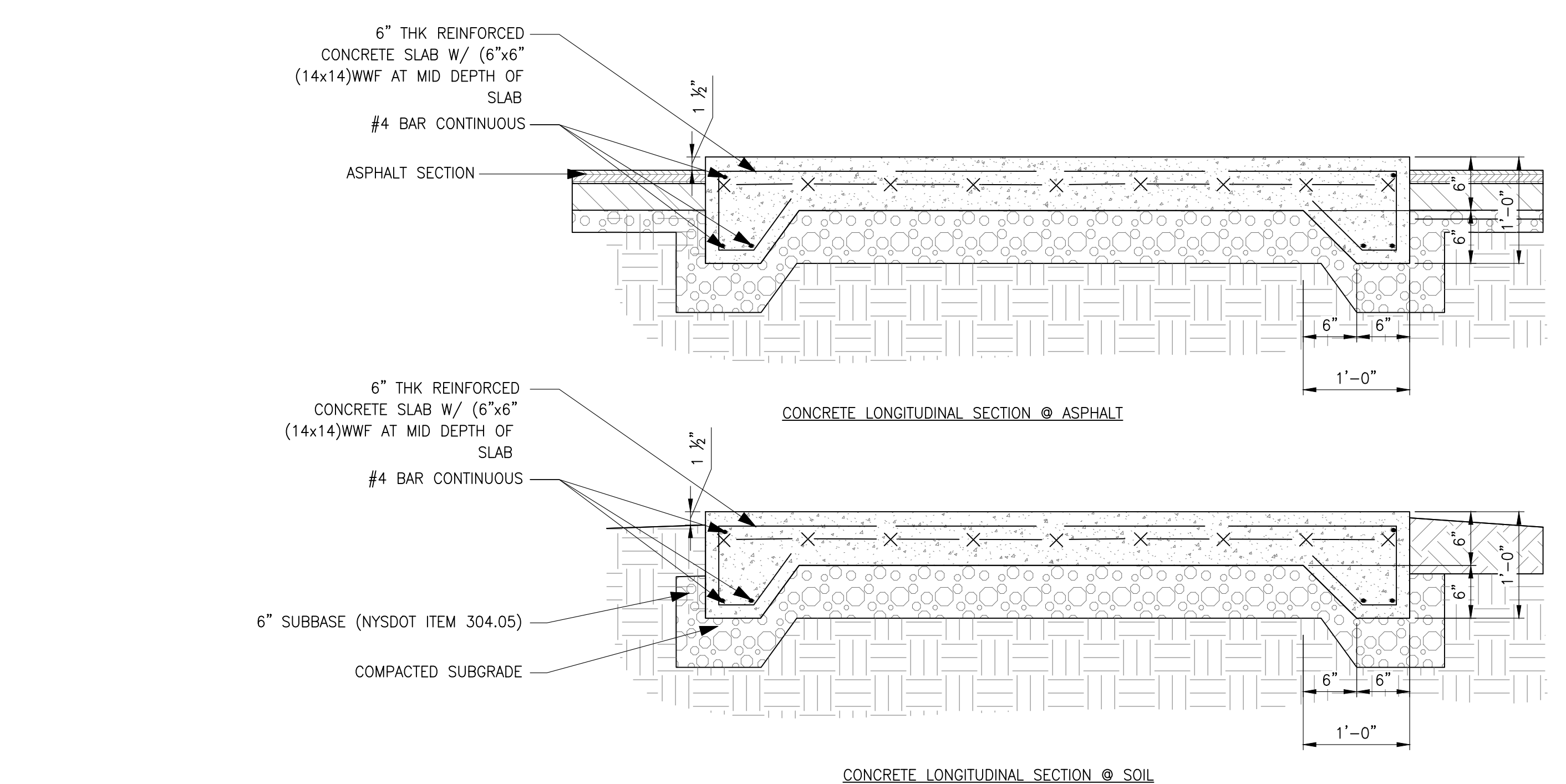
9 DUMPSTER ENCLOSURE AND GATE DETAIL SCALE: NTS



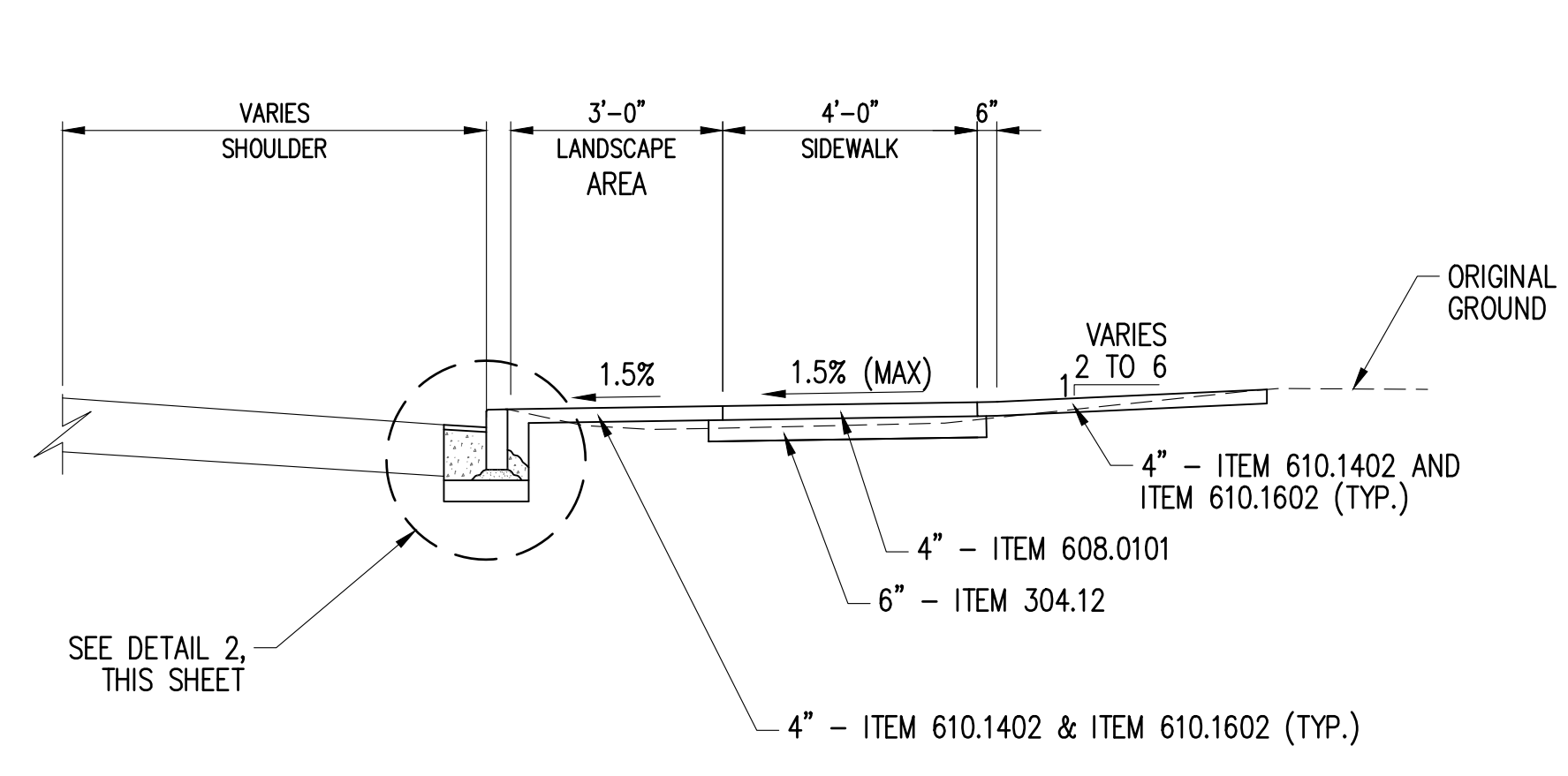
10 BOLLARD DETAIL SCALE: NTS



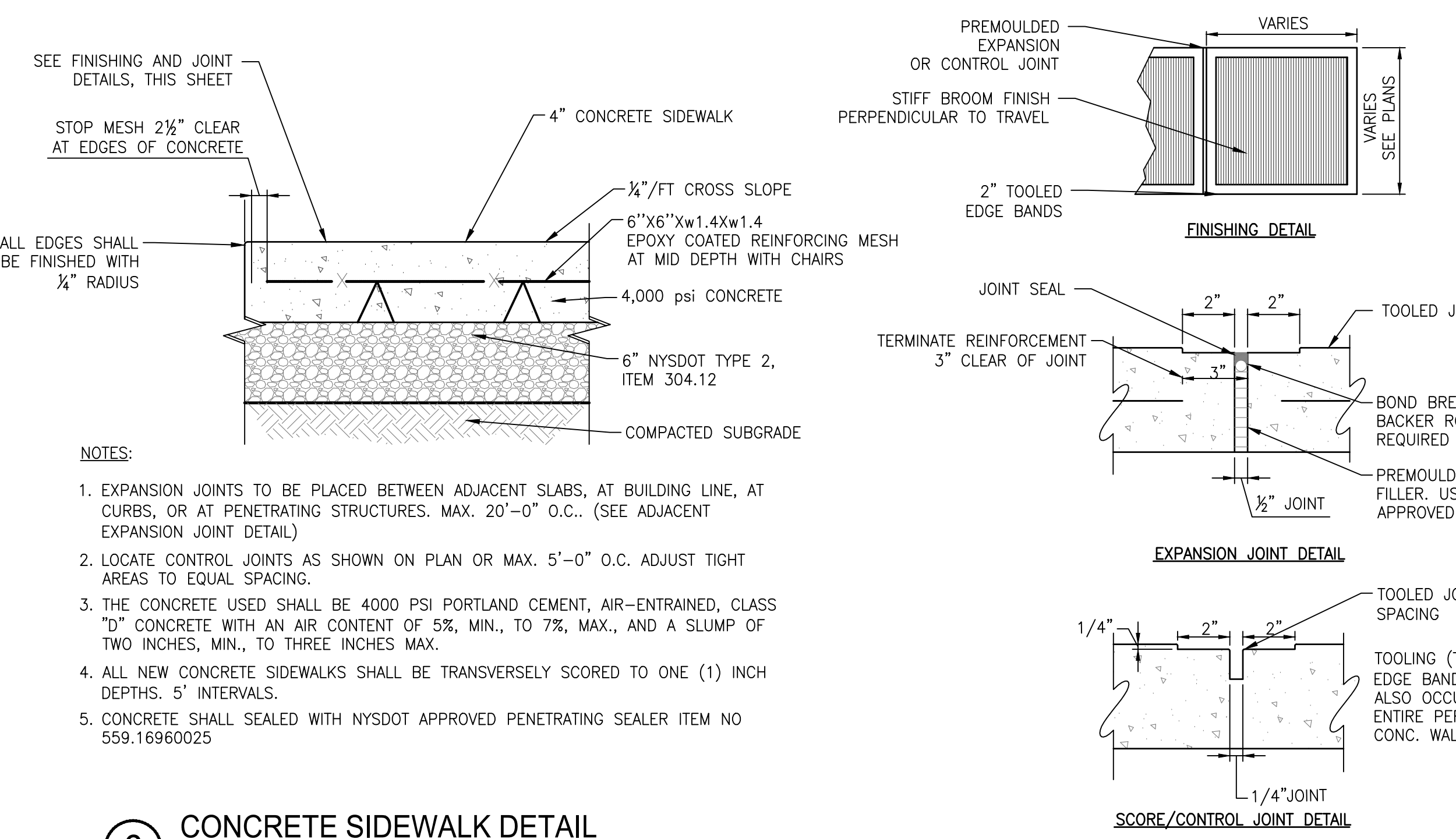
11 SIGN MOUNTING DETAIL SCALE: NTS



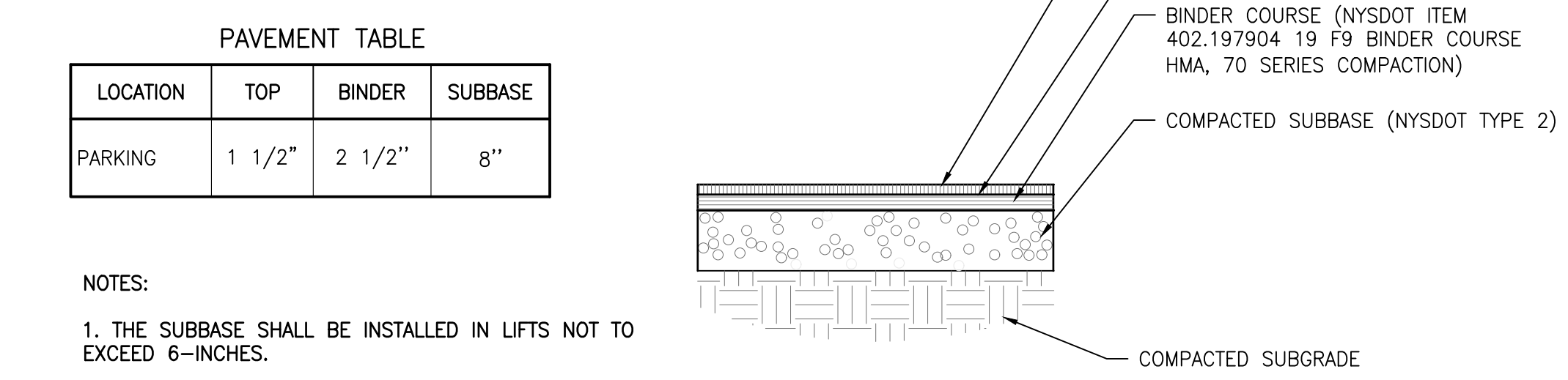
8 CONCRETE PAD DETAIL SCALE: NTS



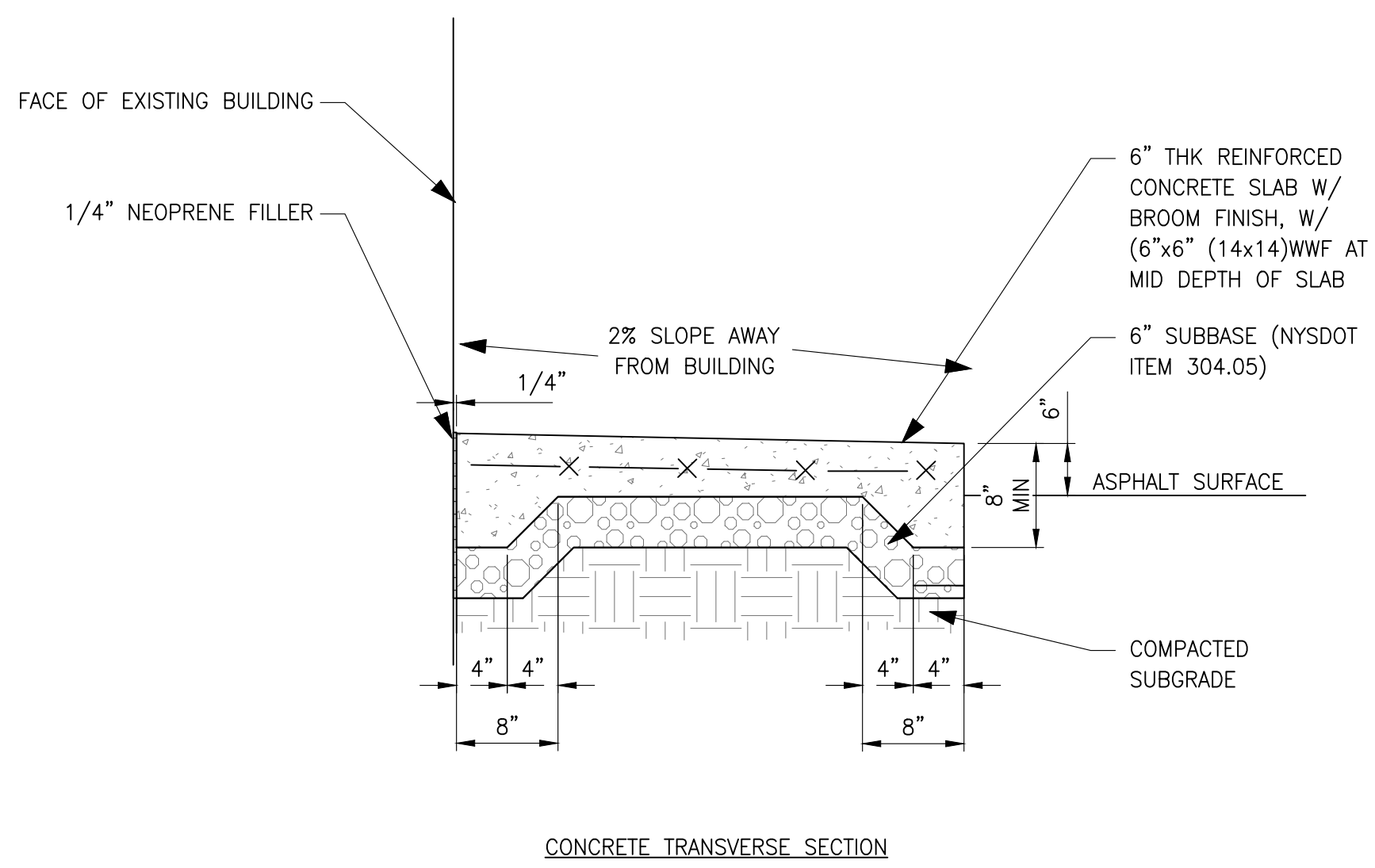
5 TYPICAL SECTION - HARRISON AVENUE SCALE: NTS



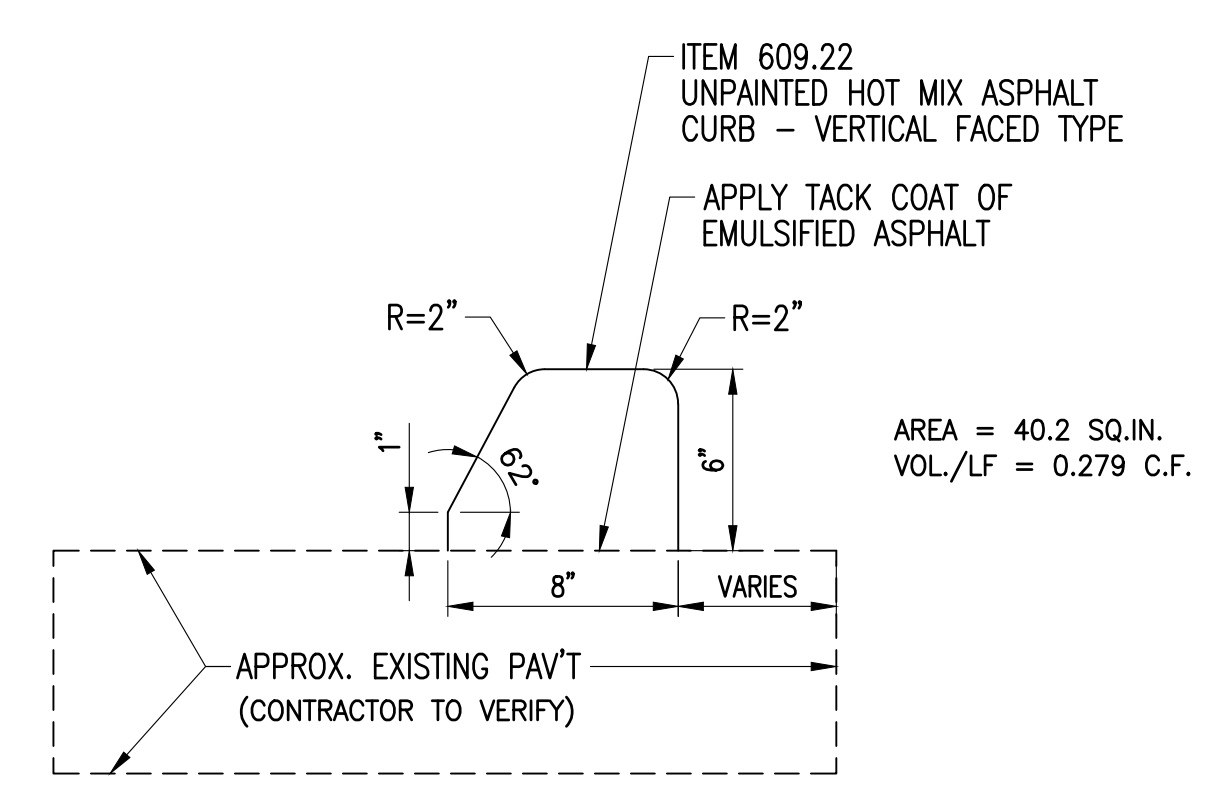
6 CONCRETE SIDEWALK DETAIL SCALE: NTS



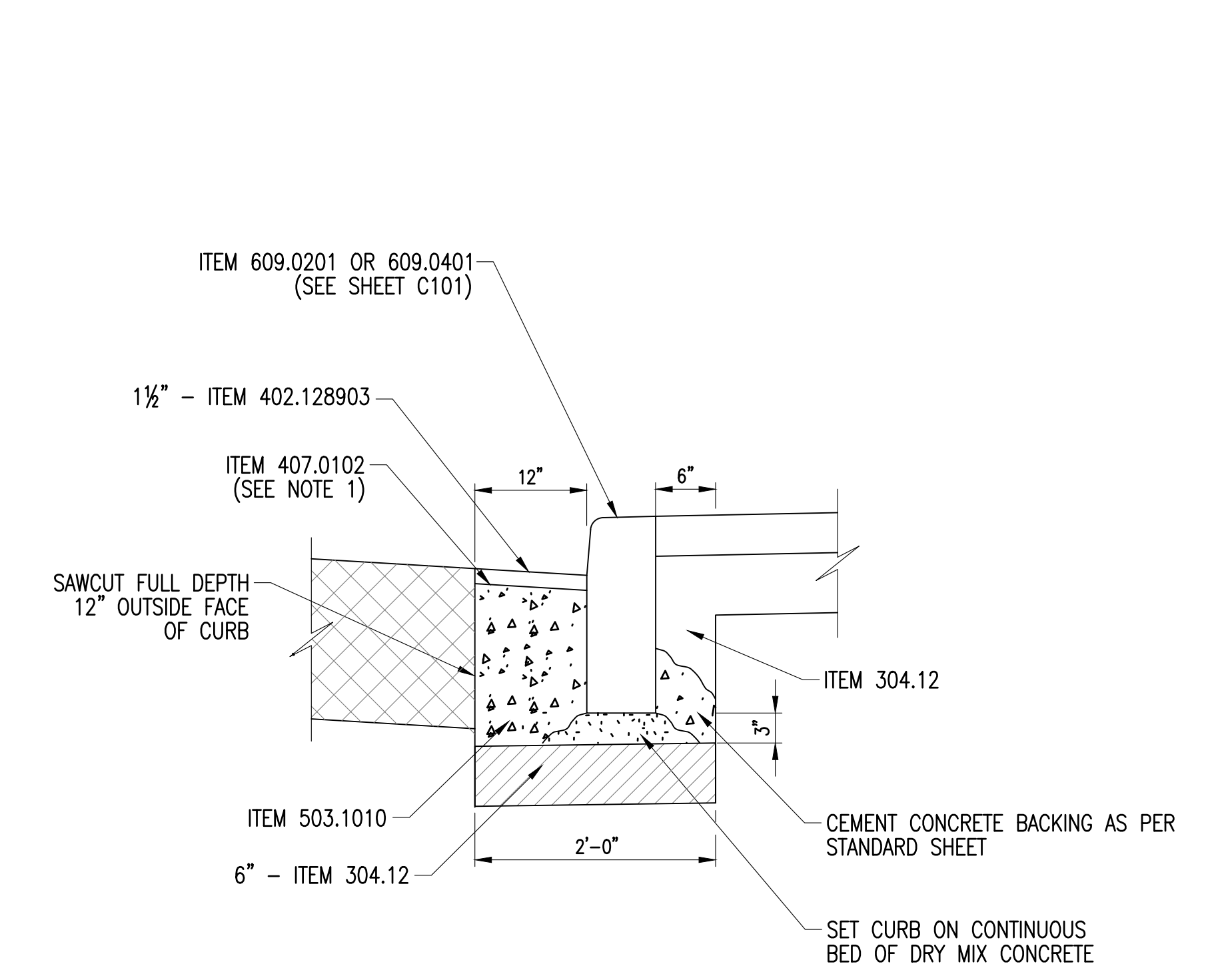
7 ASPHALT PAVEMENT SECTION - NEW VEHICLE PARKING SCALE: NTS



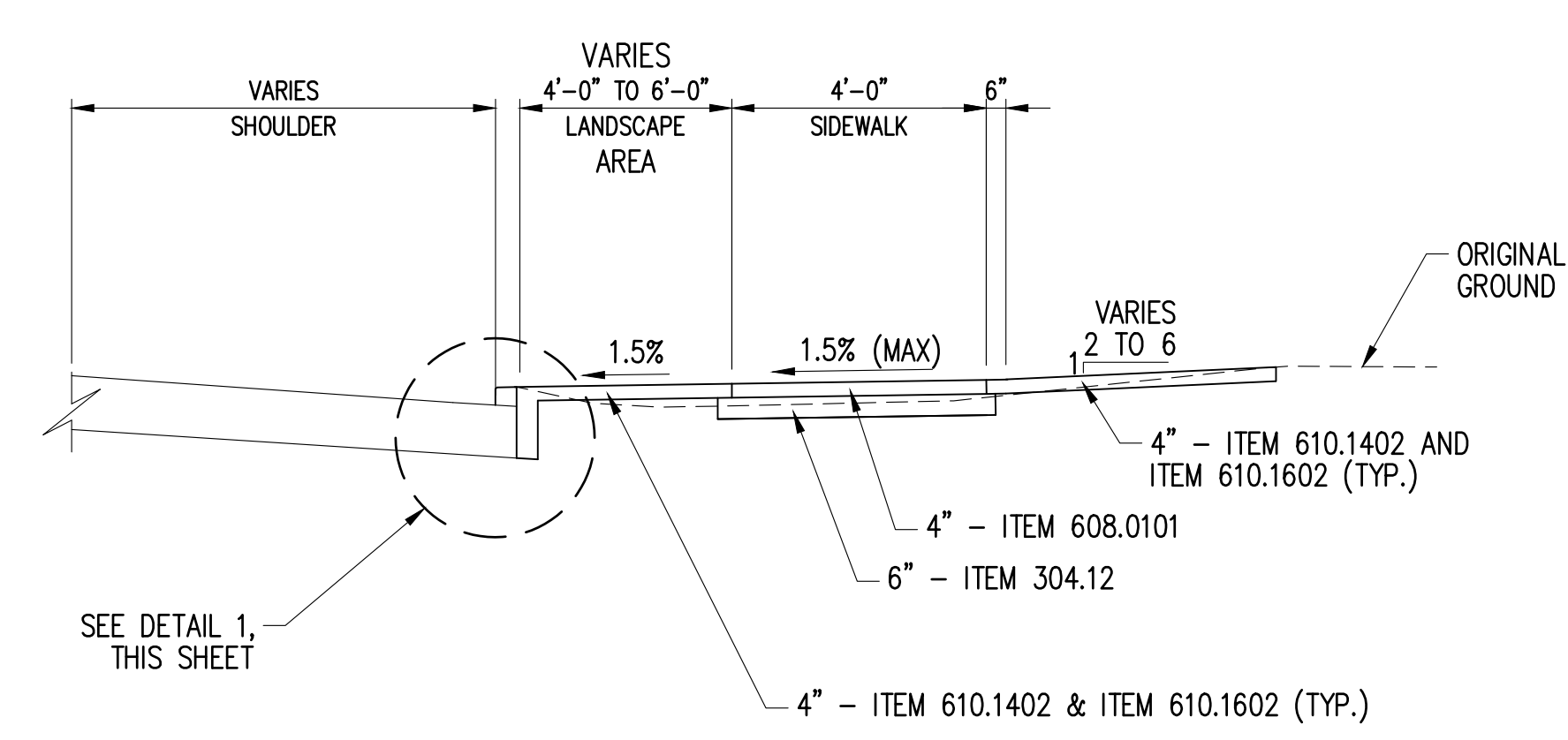
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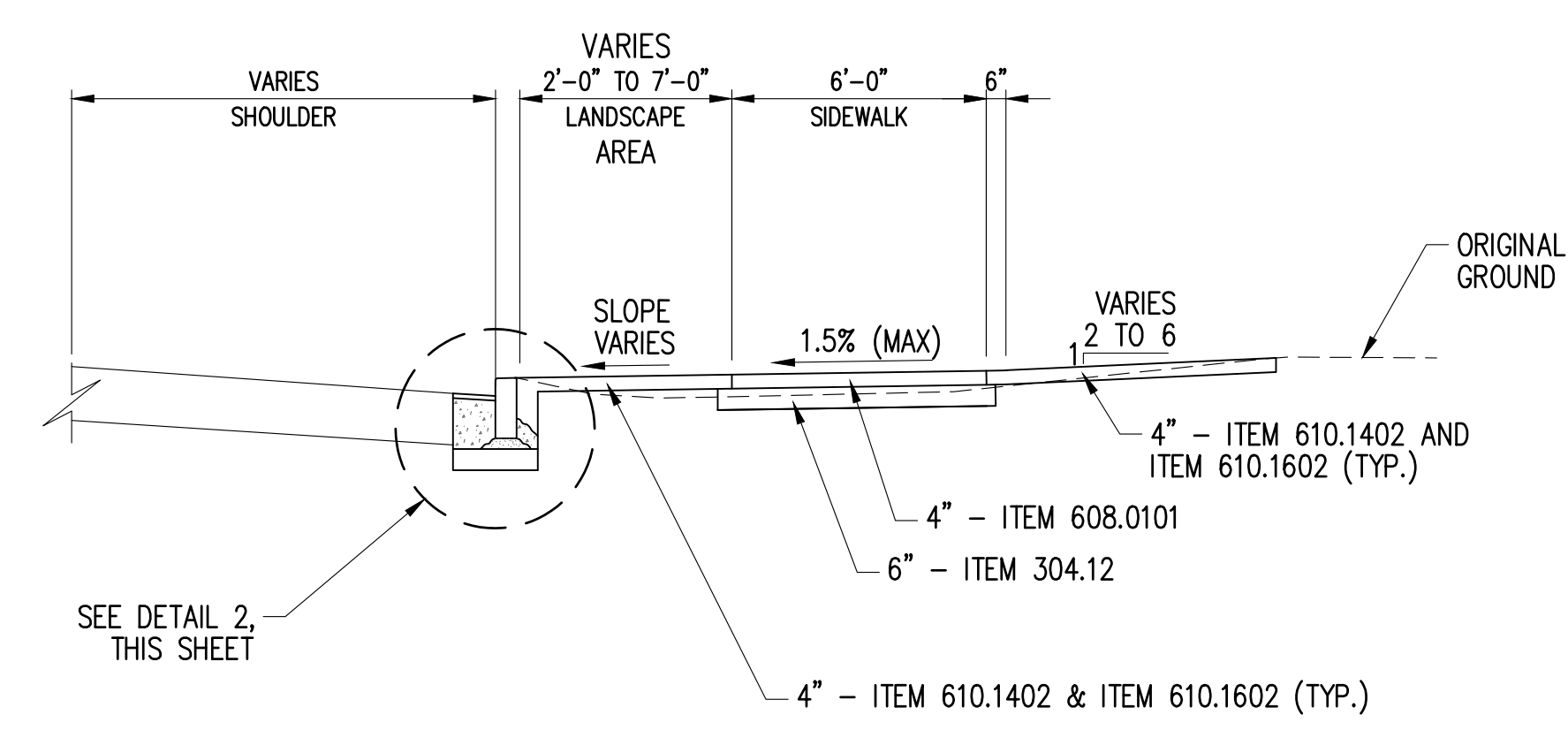
1 HMA CURB DETAIL ORCHARD STREET SCALE: NTS



2 CURB DETAIL HARRISON AVENUE & CALVERT STREET SCALE: NTS



3 TYPICAL SECTION - ORCHARD STREET SCALE: NTS



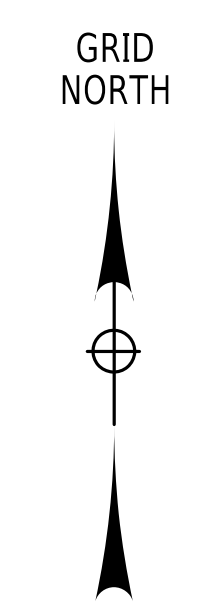
4 TYPICAL SECTION - CALVERT STREET SCALE: NTS

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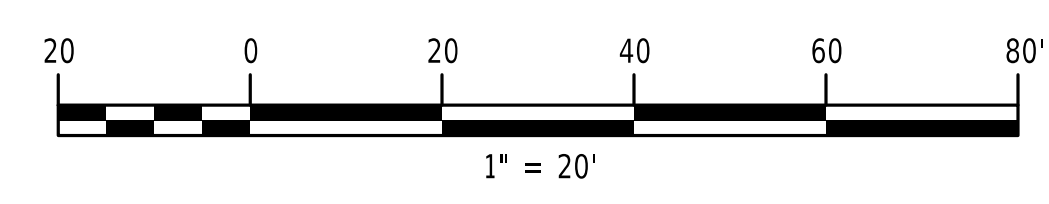
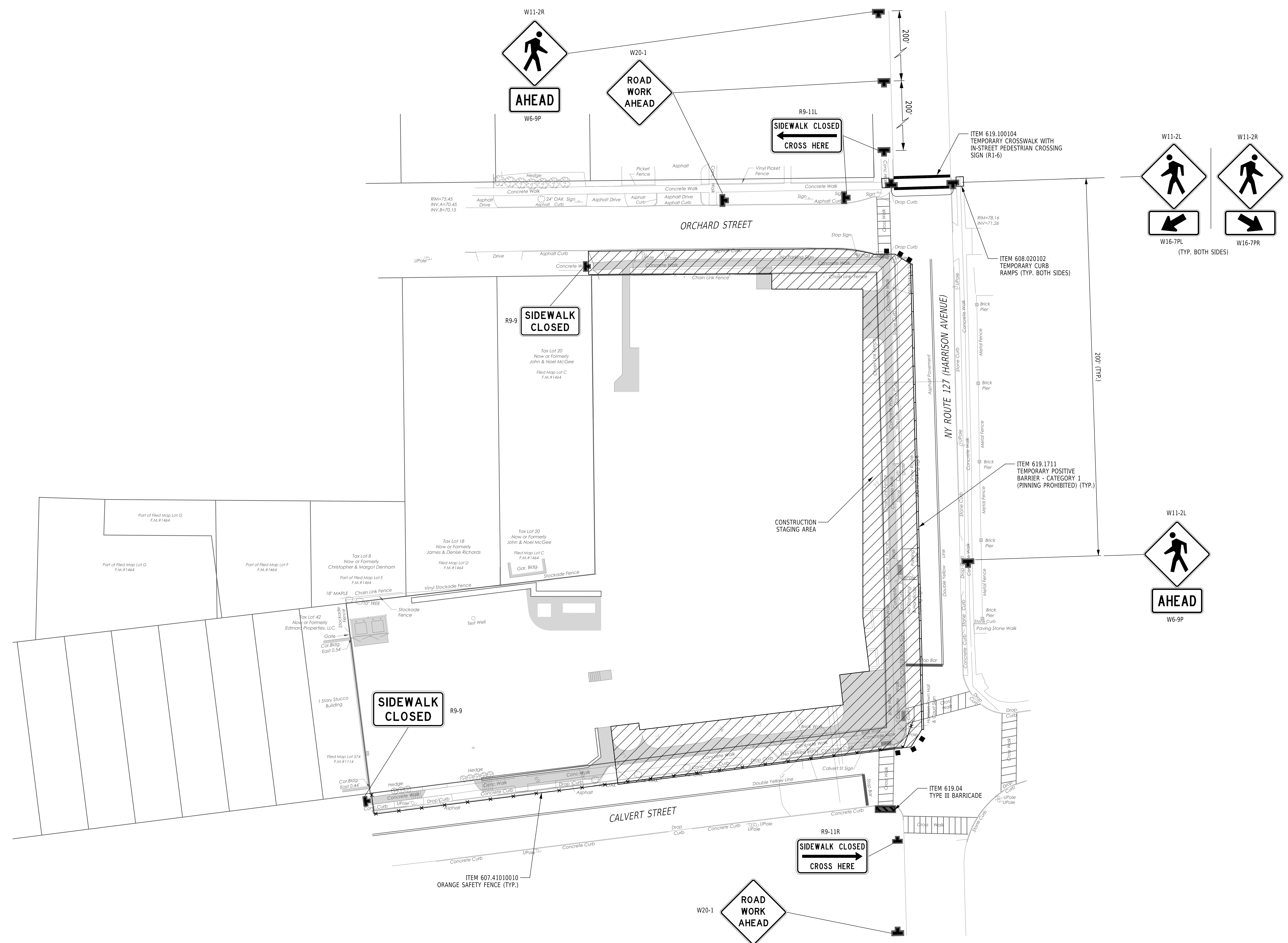


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CONSTRUCTION DOCUMENTS



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Professional Seal

No.	Date	Issue
2	06/05/2024	ISSUE FOR BID - PHASE 2
1	01/16/2024	ISSUE FOR PERMIT

Sheet Title

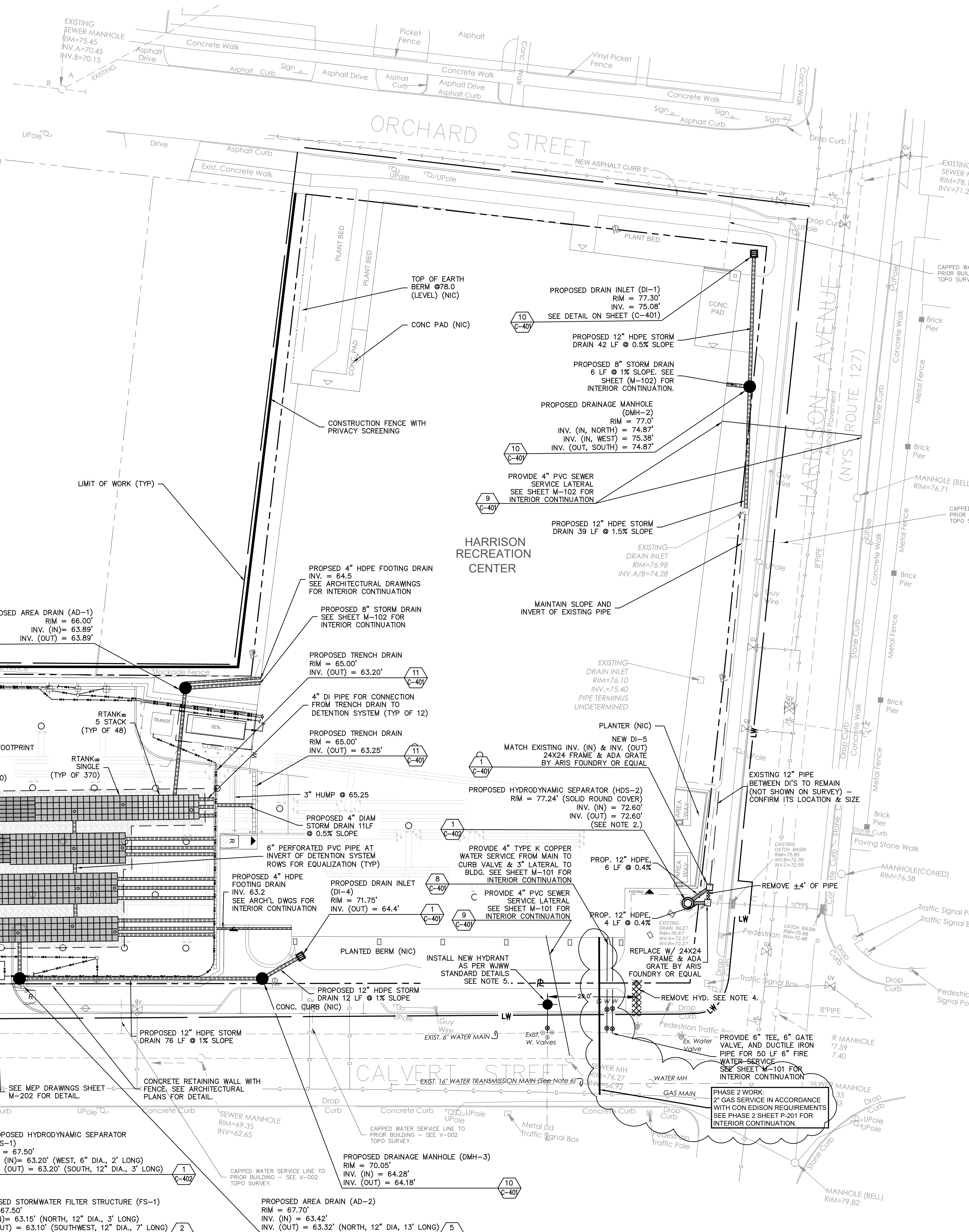
WORK ZONE TRAFFIC CONTROL PLAN	
Job No.	Date
2020-1005	01/24/2024
Scale	Drawn / Checked
AS NOTED	TG/GB
Sheet Number	
C105	

GENERAL NOTES:

1. THE PROPOSED SITE GRADING (INCLUDING PROPOSED SPOT ELEVATIONS, CONTOURS, AND WALL ELEVATIONS, FINISHED GRADE ELEVATIONS FOR PROPOSED INLET STRUCTURES) AND LAYOUT PLAN (ALL LAYOUT AND MATERIALS) DEPICTED ON THIS LAYOUT AND UTILITY PLAN (SHEET C-200) HAVE BEEN DESIGNED BY KG+D ARCHITECTS, PC. KG+D ARCHITECTS, PC PROVIDED THIS DESIGN INFORMATION TO WOODARD & CURRAN ENGINEERING & GEOLOGICAL SERVICES PA PC ON 06/30/2023, FILENAME "ARCH SITE PLAN 2023.DWG". THE PE SIGNATURE/SEAL OF STEVEN LAURIA, SENIOR PROJECT MANAGER OF WOODARD & CURRAN ENGINEERING & GEOLOGICAL SERVICES PA PC ON SHEETS C-100, C-200, C-300, RELATES SPECIFICALLY TO THE DESIGN OF UNDERGROUND PIPING AND UNDERGROUND STRUCTURES FOR STORMWATER, WATER, AND SEWER (INCLUDING STORM SEWER SYSTEM DESIGN, WATER SERVICE LINE AND CONNECTION TO WATER MAIN, SANITARY SEWER SERVICE LINE AND CONNECTION TO SEWER MAIN), SURFACE AND SUBSURFACE STORMWATER MANAGEMENT FEATURES FOR STORMWATER FLOW ATTENUATION AND WATER QUALITY TREATMENT.
2. ALL EXCAVATIONS FOR UTILITIES WITHIN THE RIGHT-OF-WAY MUST BE BACKFILLED, COMPACTED AND PATCHED WITH IN-KIND MATERIALS TO MATCH THE EXISTING LINE AND GRADE IN ACCORDANCE WITH NYS DOT SPECIFICATIONS.

NOTES (REV. 7/24/23):

1. ADA COMPLIANT GRATES SHALL BE USED FOR ALL DRAIN INLETS LOCATED IN PEDESTRIAN TRAFFIC AREAS.
2. HDS-2 SHALL BE LOCATED OUTSIDE OF THE ROAD R.O.W. AND MINIMUM 1' HORIZONTALLY AWAY FROM THE BUILDING PIERS AND FOOTINGS.
3. PROPOSED FIRE AND DOMESTIC WATER SERVICES SHALL BE IN ACCORDANCE WITH WJWW STANDARD DETAILS - WITH NEW TEES & GATE VALVES AT THE WATER MAIN.
4. REMOVE EXISTING HYDRANT (#3013) AS PER WJWW STANDARD DETAILS. EXISTING HYDRANT TEE SHALL BE REMOVED AT THE WATER MAIN AND REPLACED IN ACCORDANCE WITH WJWW WATER SERVICE / TEE TYPICAL ABANDONMENT DETAIL.
5. NEW FIRE SERVICE SHALL BE CONNECTED TO MAIN AT EXISTING VALVES IN STREET (APPROX. 25' WEST OF EXISTING HYDRANT LOCATION).
6. EXISTING WATER LINES AS REPORTED BY WJWW.
7. DRAWING REFERENCES ON THIS PLAN REFER TO PHASE 1 DRAWINGS.



NOTE - THIS DRAWING SHOWS COMPLETED PHASE 1 WORK FOR REFERENCE EXCEPT AS FOLLOWS:

1. GAS SERVICE FROM CALVERT STREET IS PHASE 2 WORK.

PHASE 2 CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTHS AND LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE WORK AREA AND POTENTIALLY AFFECTED BY PHASE 2 WORK.

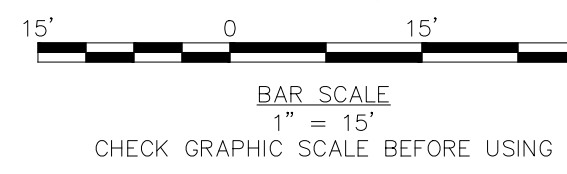
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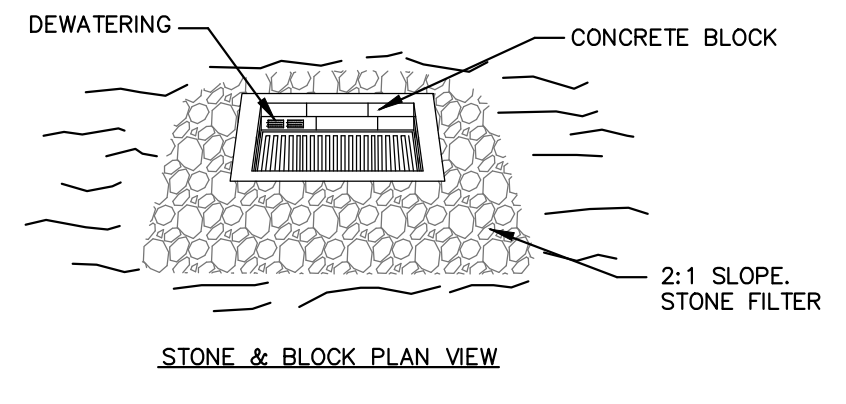
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No.	Date	Issue
7	06/05/2024	ISSUE FOR BID - PHASE 2
6	01/08/2024	REVISE WATER & STORM
5	07/24/2023	REVISE FOR PERMIT - PHASE 1
4	06/29/2023	ISSUE FOR BID - PHASE 1
3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

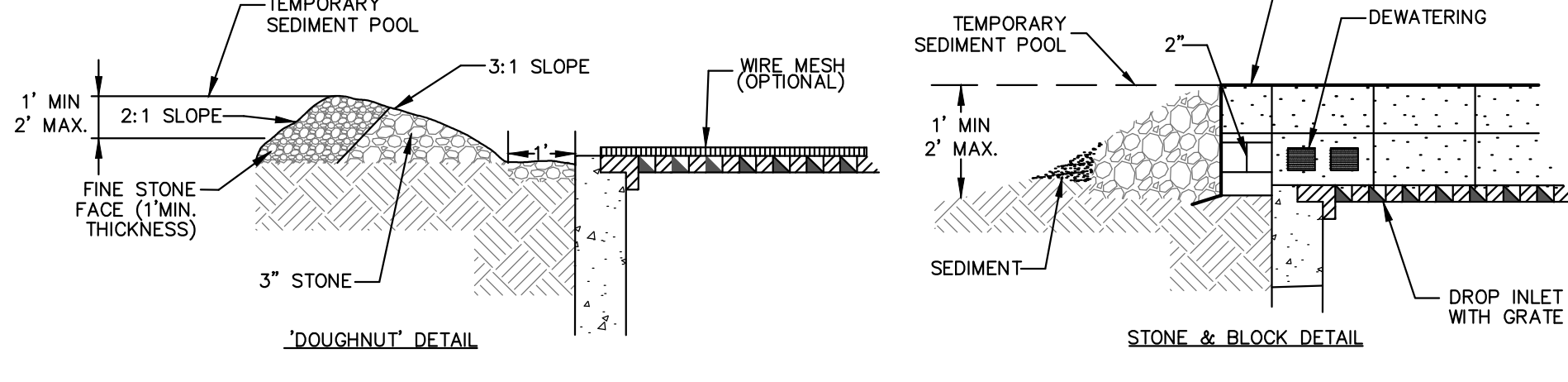
UTILITIES PLAN

Job No.	2020-1005	Date	07/07/2023
Scale	AS NOTED	Drawn / Checked	CJL/JLM
Sheet Number	C-200		





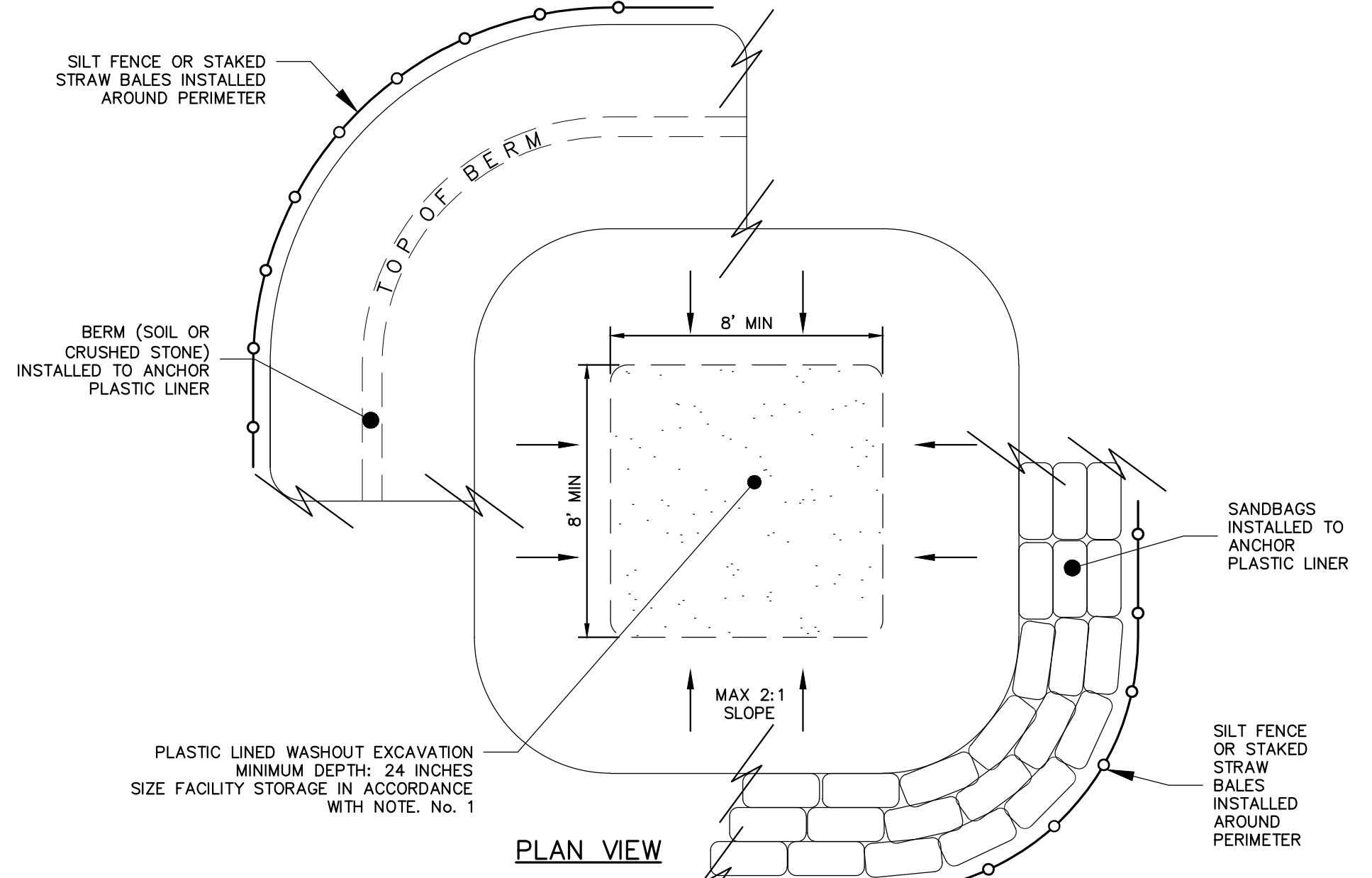
STONE & BLOCK PLAN VIEW



STONE & BLOCK DETAIL

- NOTES:**
- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING; FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
 - HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
 - USE CLEAN STONE OR GRAVEL 1/2 TO 3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
 - FOR STONE STRUCTURES ONLY: A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.
- MAXIMUM DRAINAGE AREA 1 ACRE

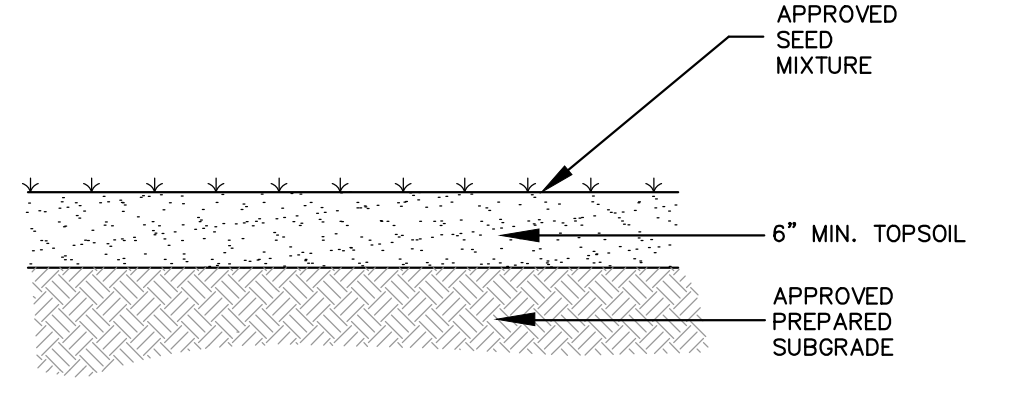
1 STONE AND BLOCK DROP INLET PROTECTION
NOT TO SCALE



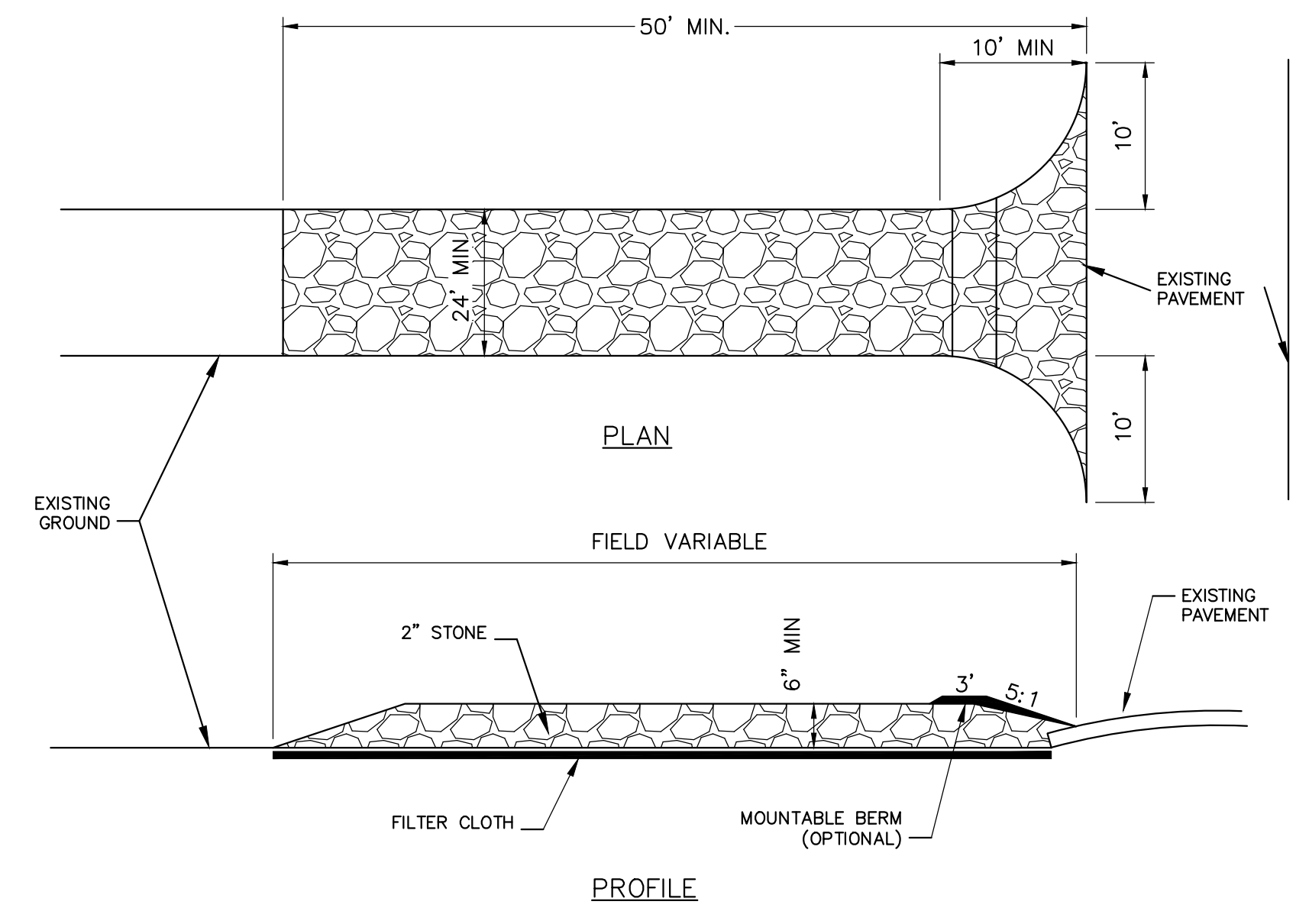
PLAN VIEW

- NOTES:**
- SIZE WASHOUT FACILITY TO PROVIDE REQUIRED CAPACITY TO ALLOW FOR PLANNED CONCRETE POUR ACTIVITIES BETWEEN FACILITY MAINTENANCE AS DESCRIBED IN NOTE 9. THE FOLLOWING RELATIONSHIPS CAN BE USED TO ESTIMATE REQUIRED CAPACITY. MINIMUM FACILITY DIMENSIONS SHALL BE CONSTRUCTED AS NOTED ON DETAIL.
 - CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED, INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE NYSDEC NEW YORK STANDARDS & SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION.
 - LOCATE WASHOUT FACILITY MINIMUM OF 100 FEET AWAY FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATERS.
 - WASHOUT FACILITY SHALL BE LINED WITH MINIMUM 10 MIL THICKNESS PLASTIC SHEETING OR EQUIVALENT WATER TIGHT BARRIER APPROVED BY THE ENGINEER.
 - LINER SHALL BE MAINTAINED FREE OF TEARS AND PUNCTURES AT ALL TIMES.
 - ANCHOR LINER AT TOP OF EXCAVATION WITH EARTHEN BERM, SANDBAGS OR STONE AS SHOWN ON THE DETAIL.
 - SURROUND WASHOUT FACILITY WITH SILT FENCE OR STAKED STRAW BALES.
 - ALL WASHOUT FACILITIES SHALL BE INSPECTED DAILY.
 - ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75 PERCENT OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO AN ACCEPTABLE CONTAINMENT VESSEL AND DISPOSED OFFSITE IN ACCORDANCE WITH LOCAL REGULATIONS.
 - PLASTIC LINER SHALL BE REPLACED WITH REMOVAL OF ACCUMULATED HARDENED MATERIAL.
 - LOCATION TO BE APPROVED BY ENGINEER.

5 CONCRETE WASHOUT AREA
NOT TO SCALE



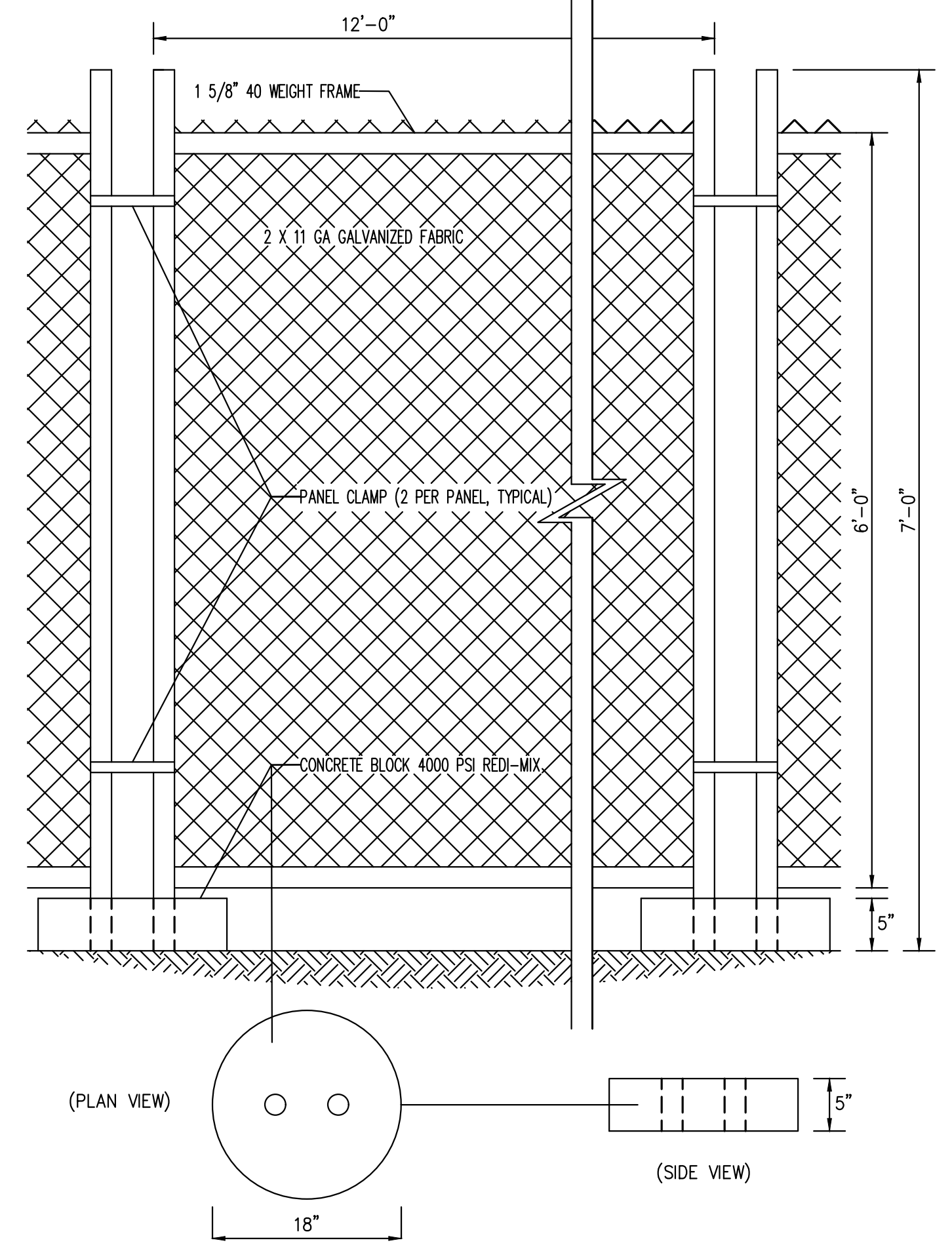
9 LAWN RESTORATION
NOT TO SCALE



PROFILE

- CONSTRUCTION SPECIFICATIONS:**
- USE 2" DIAMETER STONE OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT.
 - RECOMMENDED LENGTH GREATER THAN 50 FEET WHERE PRACTICAL.
 - THICKNESS NOT LESS THAN 6 INCHES.
 - 24 FOOT MINIMUM WIDTH, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR. PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- CONSTRUCTION SPECIFICATIONS:**
- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WILL BE PERMITTED.
 - ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR.
 - REMOVE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO PLACEMENT OF BITUMINOUS CONCRETE PAVEMENT.

2 STABILIZED CONSTRUCTION ACCESS
NOT TO SCALE

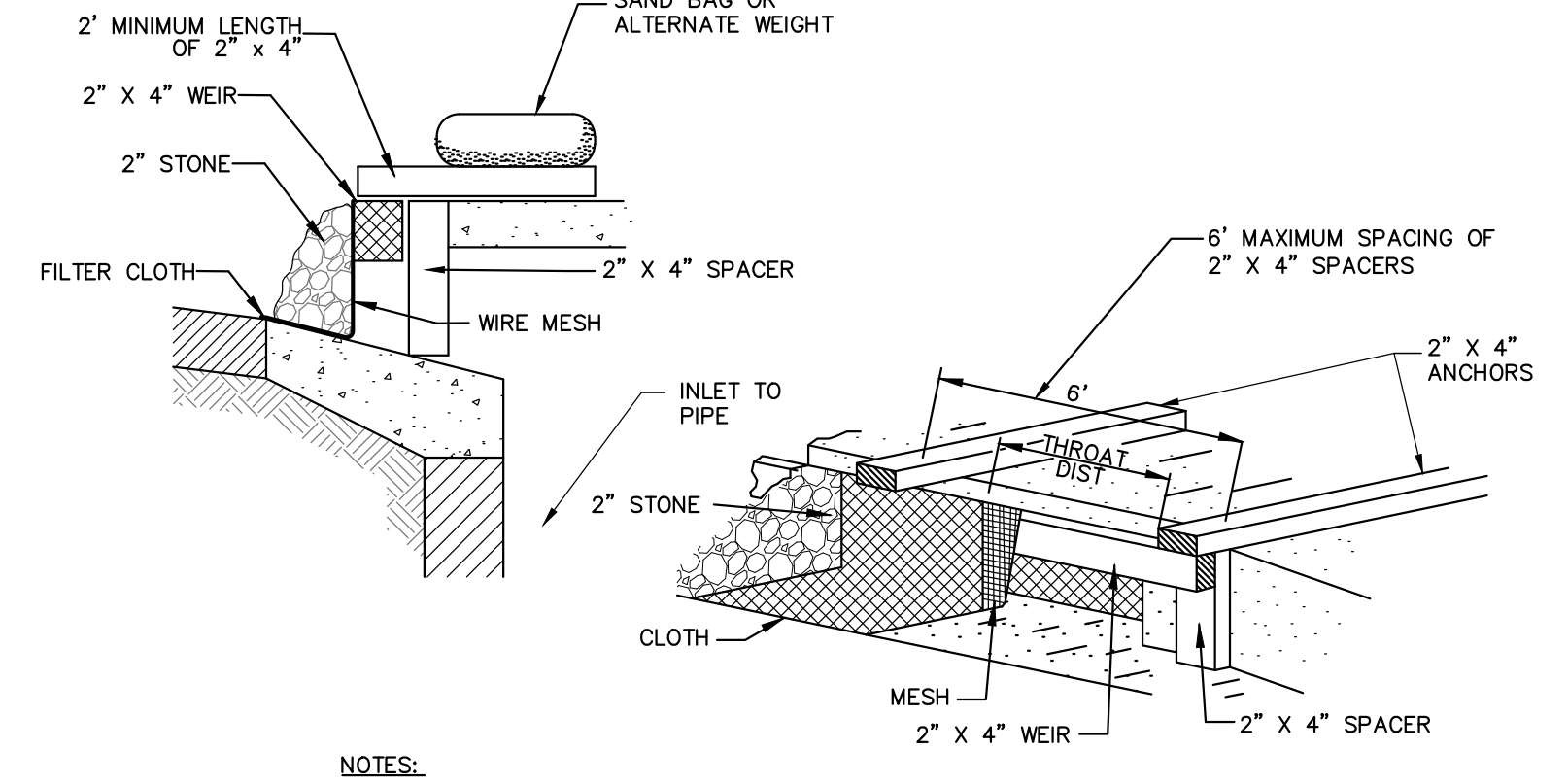


(PLAN VIEW)

(SIDE VIEW)

- NOTES:**
- CONTRACTOR SHALL PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE INCLUDING REPAIRS AS NECESSARY AND REQUIRED.
 - PROVIDE PRIVACY SCREEN WHERE SHOWN ON PLAN.

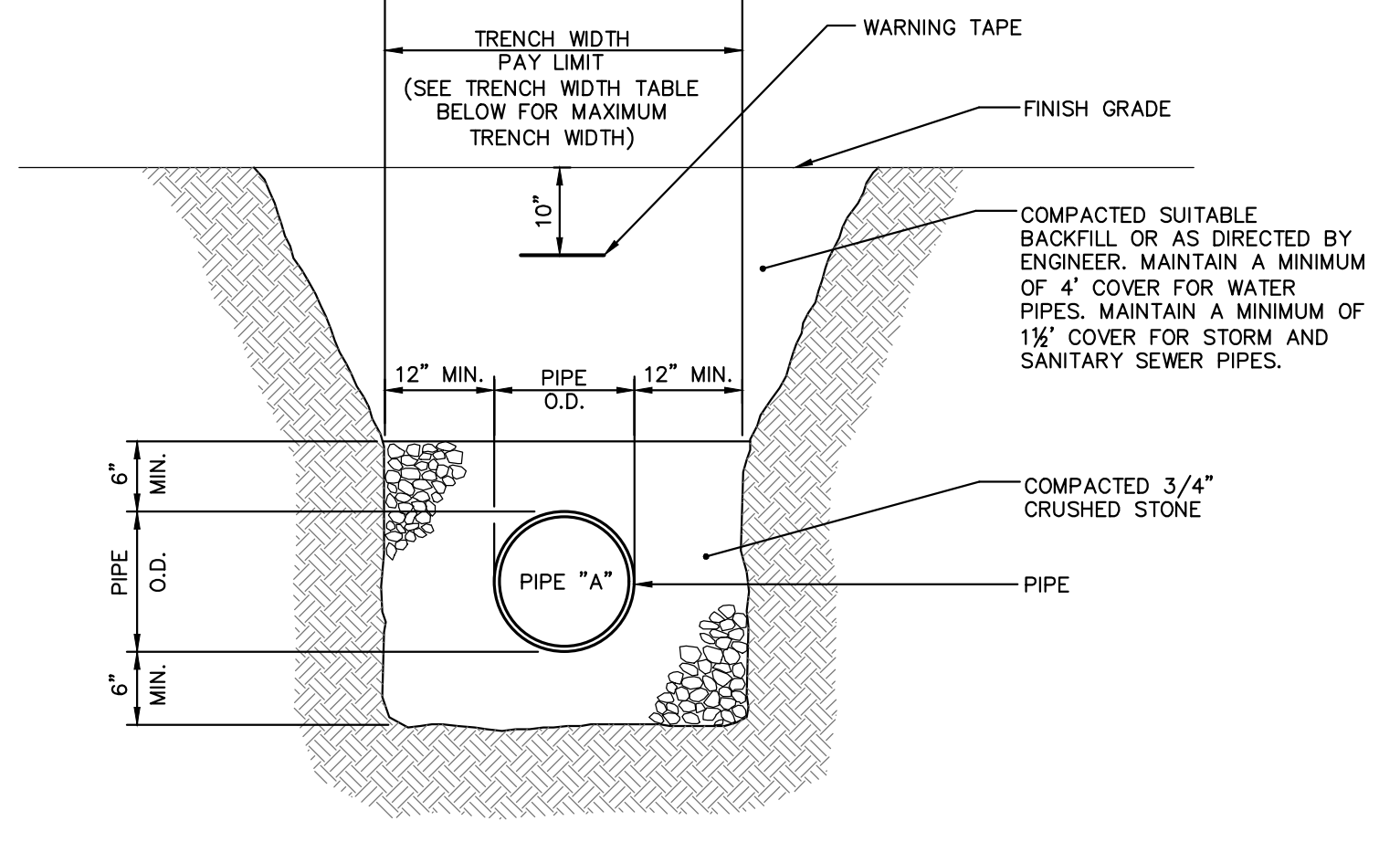
6 TEMPORARY CHAIN LINK CONSTRUCTION FENCE
NOT TO SCALE



NOTES:

- FILTER FABRIC SHALL HAVE AN AOS OF 40-85.
 - WOODEN FRAME SHALL BE CONSTRUCTED OF 2" X 4" CONSTRUCTION GRADE LUMBER.
 - WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" X 4" WEIR.
 - THE WEIR SHALL BE SECURELY NAILED TO 2" X 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART.
 - THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2" X 4" ANCHORS 2' LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.
- MAXIMUM DRAINAGE AREA 1 ACRE

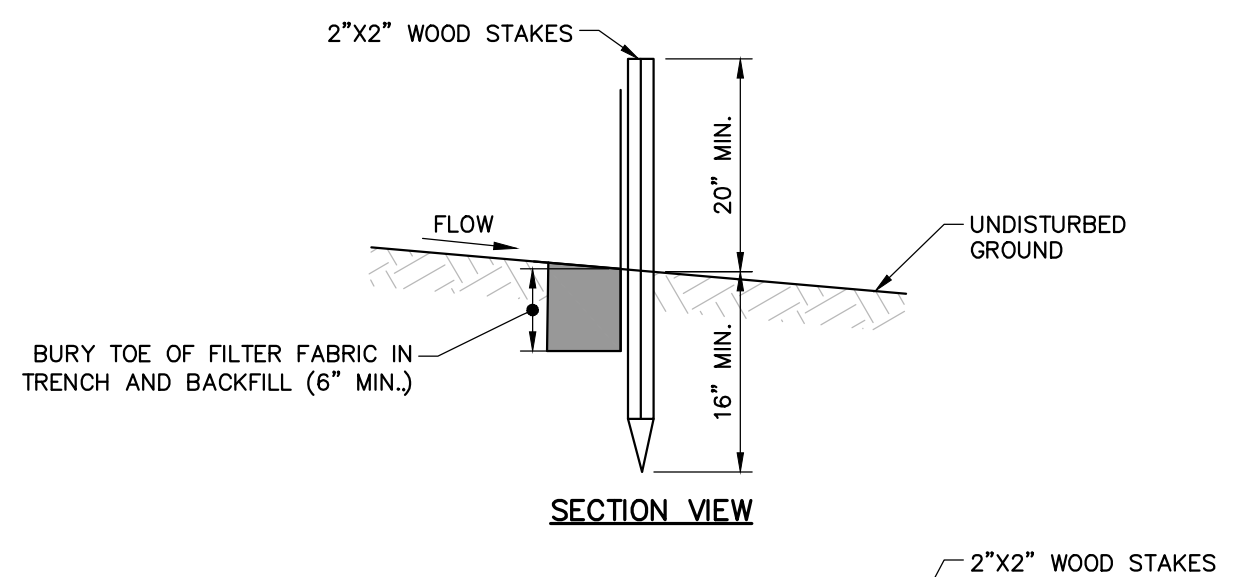
3 CURB INLET PROTECTION
NOT TO SCALE



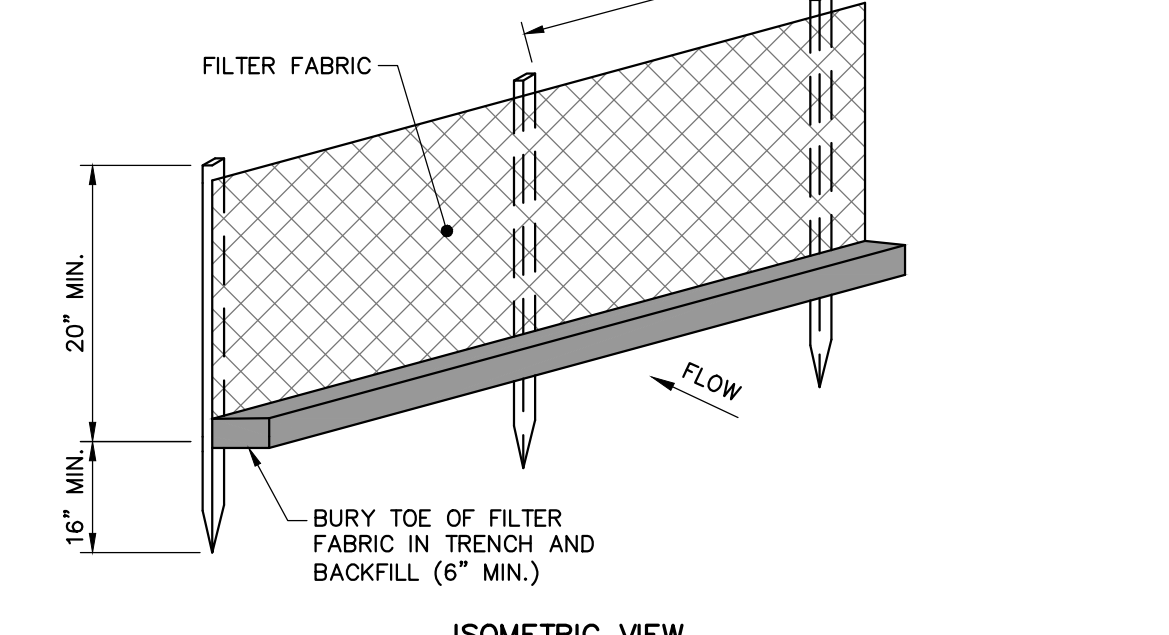
TRENCH WIDTHS (a)	
PIPE SIZE	MAX (ONE PIPE)(b)
15" OR LESS	4'-0"
18"	5'-0"
24"	5'-6"
30"	6'-0"
36"	6'-6"
42"	7'-0"
48"	7'-6"
MANHOLES	O.D. + 4'-0"

- a. REPRESENTS PAYMENT WIDTH
b. FOR ROCK EXCAVATION SUBTRACT 1'-0"
- NOTES:**
- MAINTAIN UNIFORM TRENCH WIDTH TO 6" OVER PIPE.
 - IF SHEETING IS REQUIRED TO REMAIN, CUT OFF TWO (2) FEET BELOW FINISH GRADE. LEFT IN PLACE UNLESS DIRECTED BY ENGINEER.
 - NO PAYMENT WILL BE MADE FOR SHEETING LEFT IN PLACE UNLESS DIRECTED BY ENGINEER.
 - IF GROUNDWATER IS ENCOUNTERED, WRAP STONE WITH MIRAFI 140N FILTER FABRIC OR APPROVED EQUAL.
 - SEE PAVEMENT REPAIR DETAILS FOR ROAD WORK AREAS.
 - PROVIDE 6" MIN. BEDDING FOR AREAS OF EXCAVATION IN ROCK.

7 TYPICAL PIPE TRENCH
NOT TO SCALE



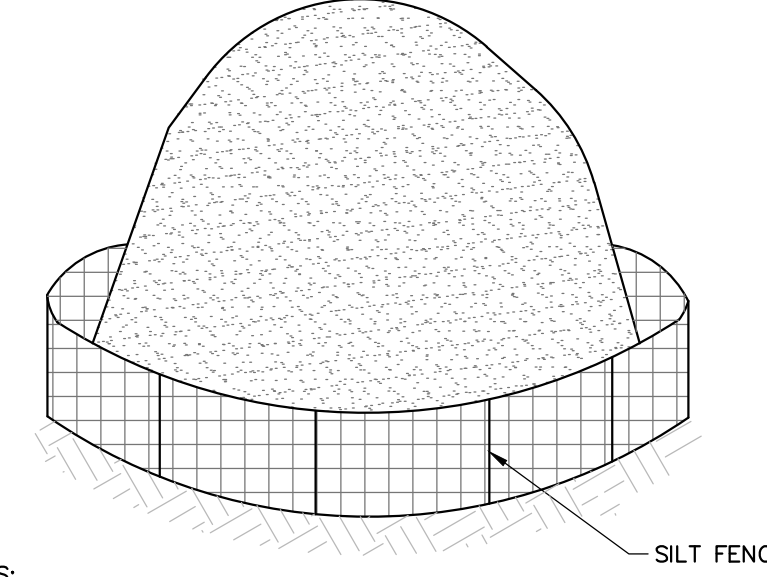
SECTION VIEW



ISOMETRIC VIEW

- NOTES:**
- INSTALL FABRIC ON UPHILL SIDE OF WOOD STAKES.
 - SPACING BETWEEN WOOD STAKES PER MANUFACTURER'S RECOMMENDATION.
 - SILT FENCE WILL NOT BE USED IN DRAINAGE WAYS.
 - MAINTENANCE: INSPECT FOR TEARS IN THE FABRIC OR DAMAGE TO SUPPORTS. REPAIR AS NECESSARY. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF SIX-INCHES OR MORE.
 - REMOVAL: WHEN UPSLOPE AREAS ARE STABILIZED, THE STRUCTURE AND ANY ACCUMULATED SEDIMENT WILL BE REMOVED.

4 SILT FENCE
NOT TO SCALE



NOTES:

- STOCKPILES SHALL BE SURROUNDED BY SILT FENCE.
- STOCKPILES SHALL HAVE A MAXIMUM 2:1 (H:V) SIDE SLOPE.
- REPAIR OR REPLACE DAMAGED SILT FENCE DUE TO CONSTRUCTION ACTIVITIES OR STOCKPILE MITIGATION.
- STOCKPILE SHALL BE LOCATED IN AREAS AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

8 TEMPORARY SOIL STOCKPILE
NOT TO SCALE

HARRISON RECREATION & COMMUNITY CENTER
New Construction - Phase 1
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build
ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P-914.666.9900 KGDARCHITECTS.COM

Woodard & Curran
Woodard & Curran Engineering & Construction Services, Inc.
100 Westchester Avenue, Suite 1407
East White Plains, NY 10523
(914) 877-4991 www.woodardcurran.com

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No.	Date	Issue
4	07/12/2023	ISSUE FOR BID - PHASE 1
3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

CONSTRUCTION DETAILS

Job No.	2020-1005	Date	06/29/2023
Scale	AS NOTED	Drawn / Checked	CJL/JLMT
Sheet Number			

C-400

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 1

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



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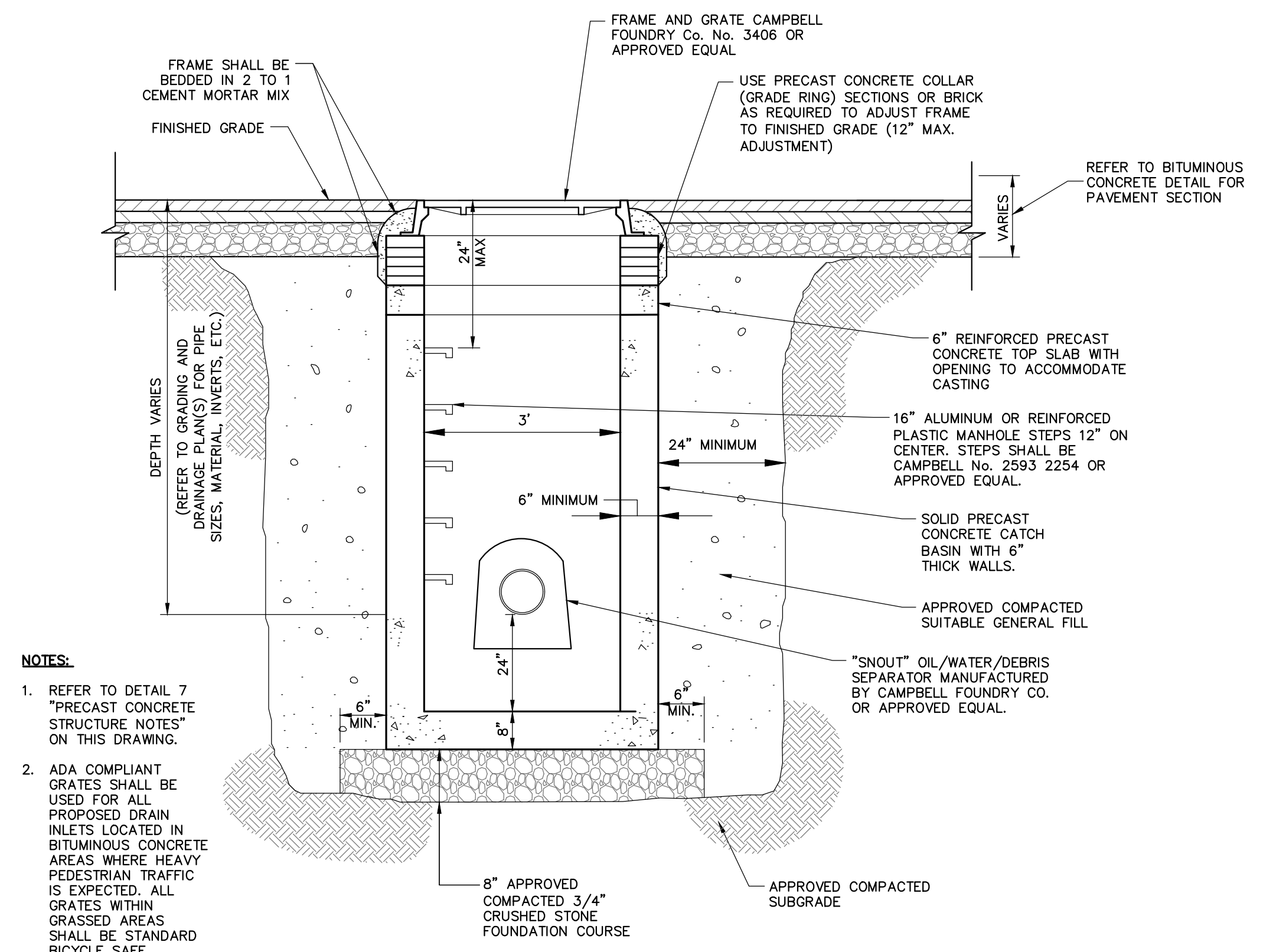
285 MAIN STREET - MOUNT KISCO, NEW YORK 10549
P-914.666.9900 KGDARCHITECTS.COM



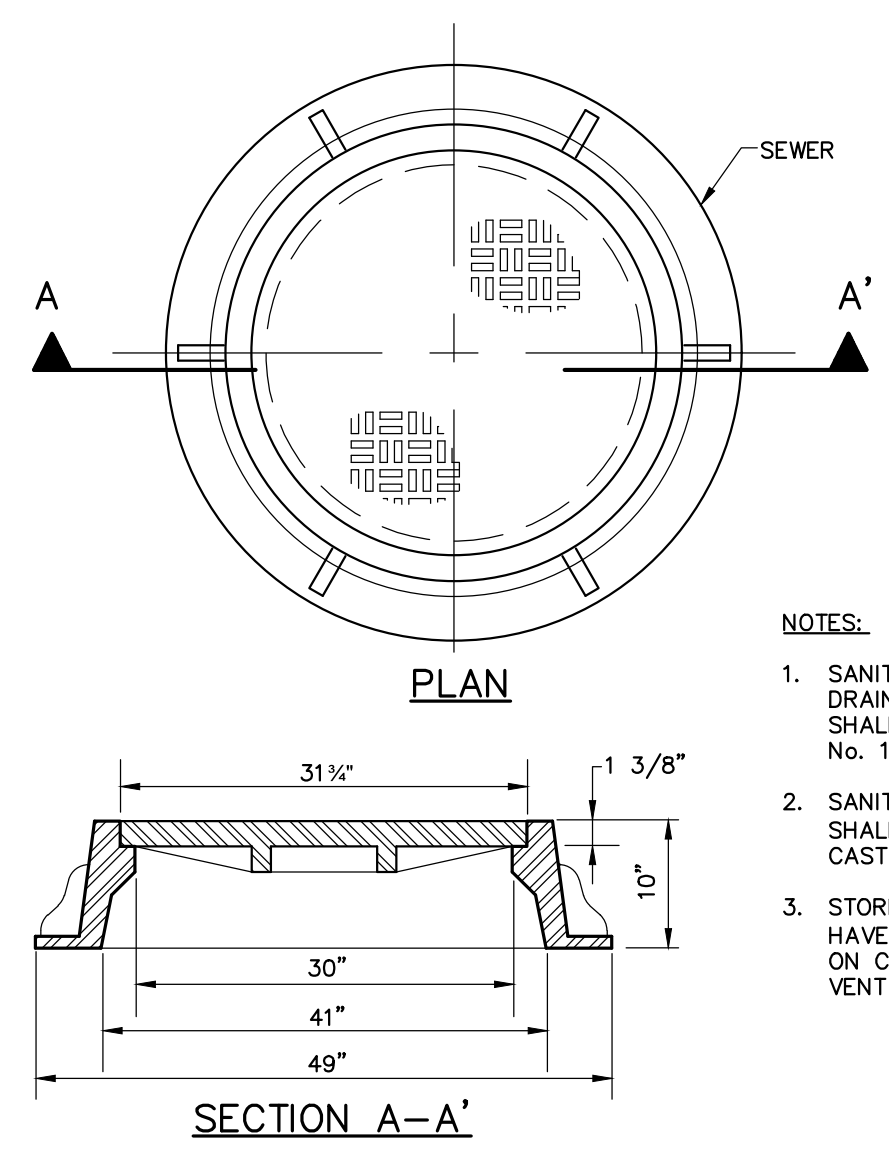
Woodard & Curran

Woodard & Curran Engineering & Construction Services, Inc.
800 Westchester Avenue, Suite 1007
East Nyack, New York 10952
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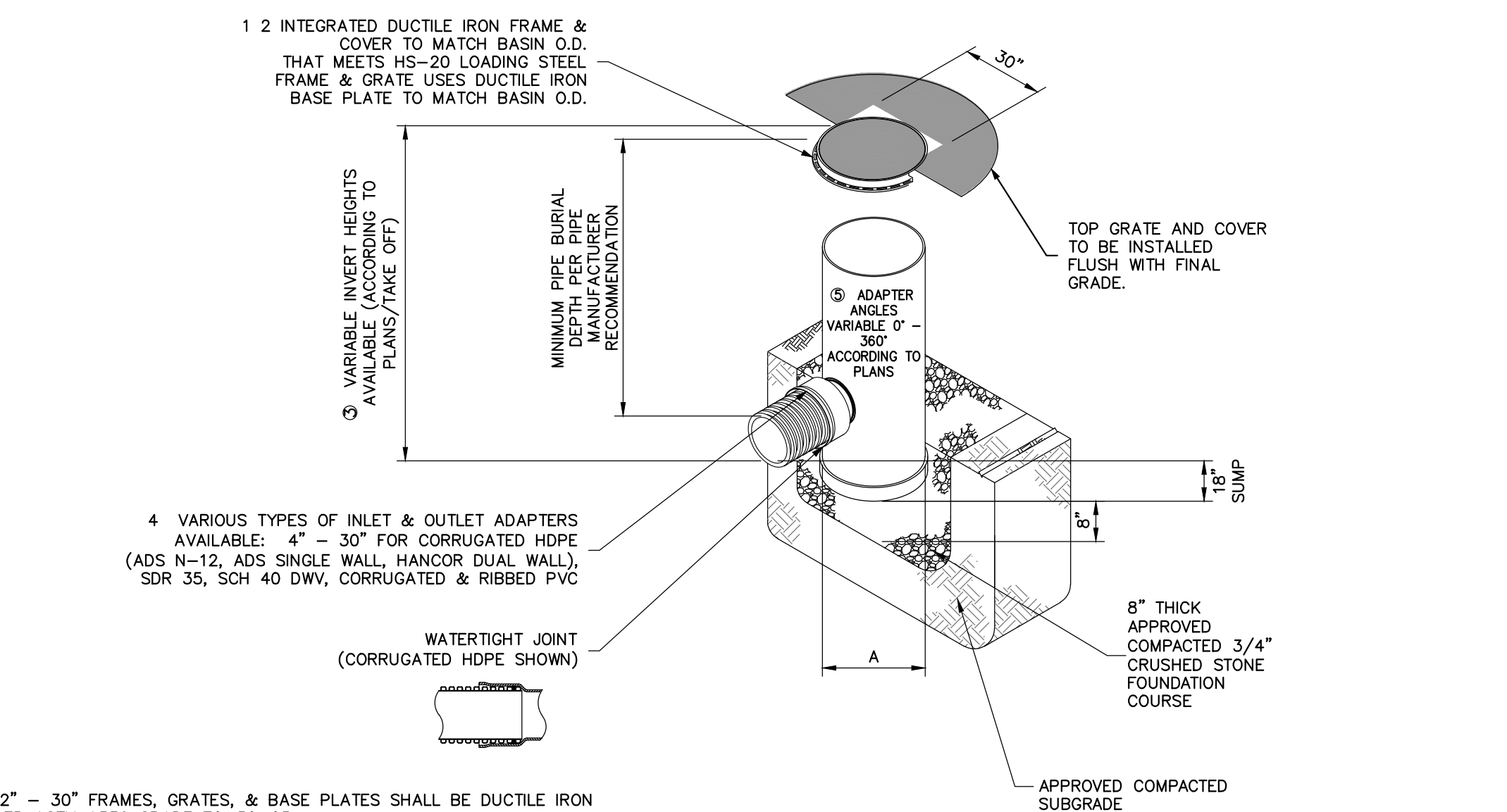


1 DRAIN INLET (CATCH BASIN)
C-401 NOT TO SCALE



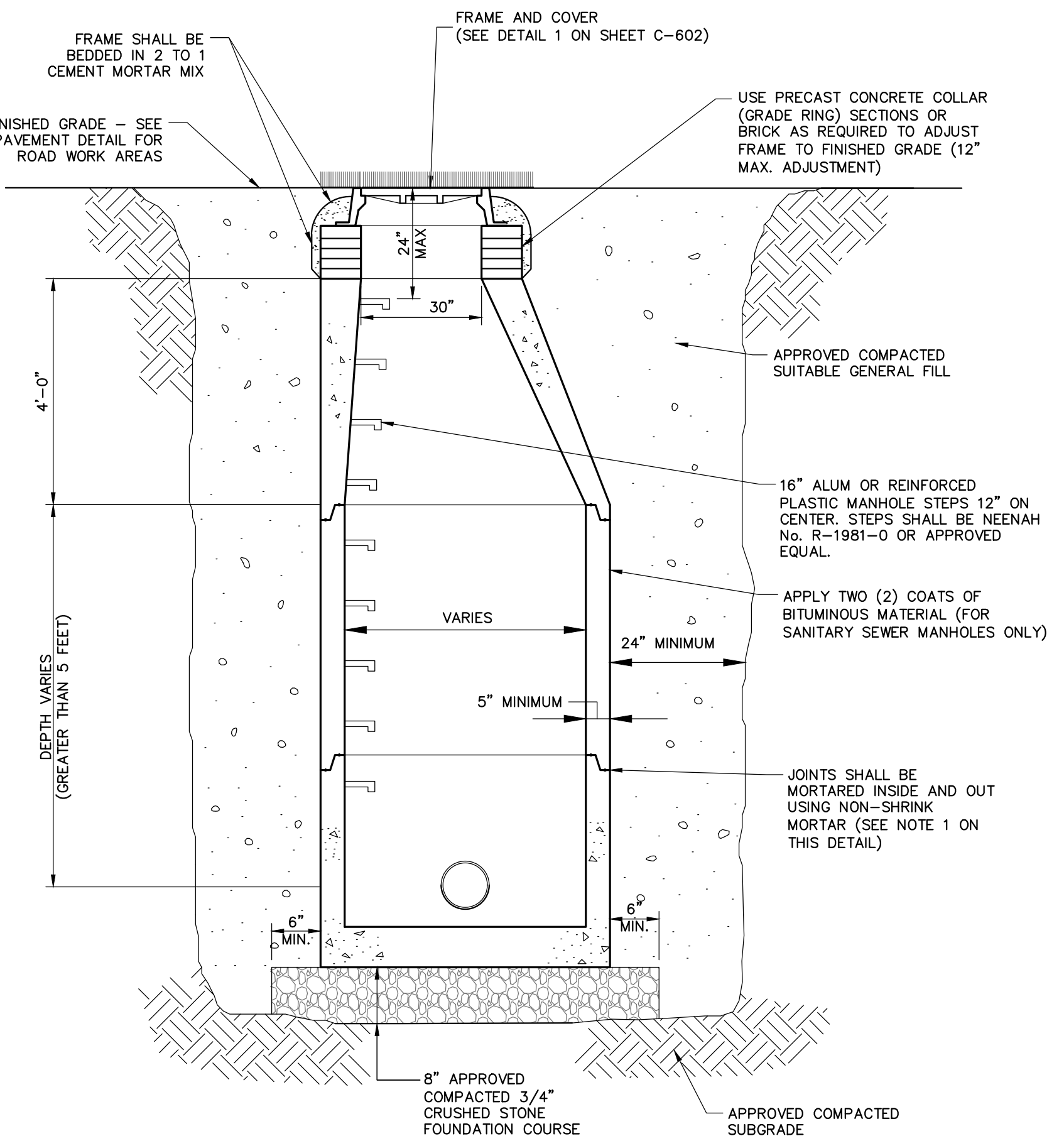
2 MANHOLE FRAME & COVER
C-401 NOT TO SCALE

- NOTES:**
- SANITARY SEWER AND STORM DRAIN MANHOLE FRAMES COVERS SHALL BE CAMPBELL FOUNDRY No. 1008 OR APPROVED EQUAL.
 - SANITARY SEWER MANHOLES SHALL HAVE THE WORD 'SEWER' CAST ON COVER. COVER SHALL HAVE VENT HOLES.
 - STORM SEWER MANHOLES SHALL HAVE THE WORD 'DRAIN' CAST ON COVER. COVER SHALL HAVE VENT HOLES.



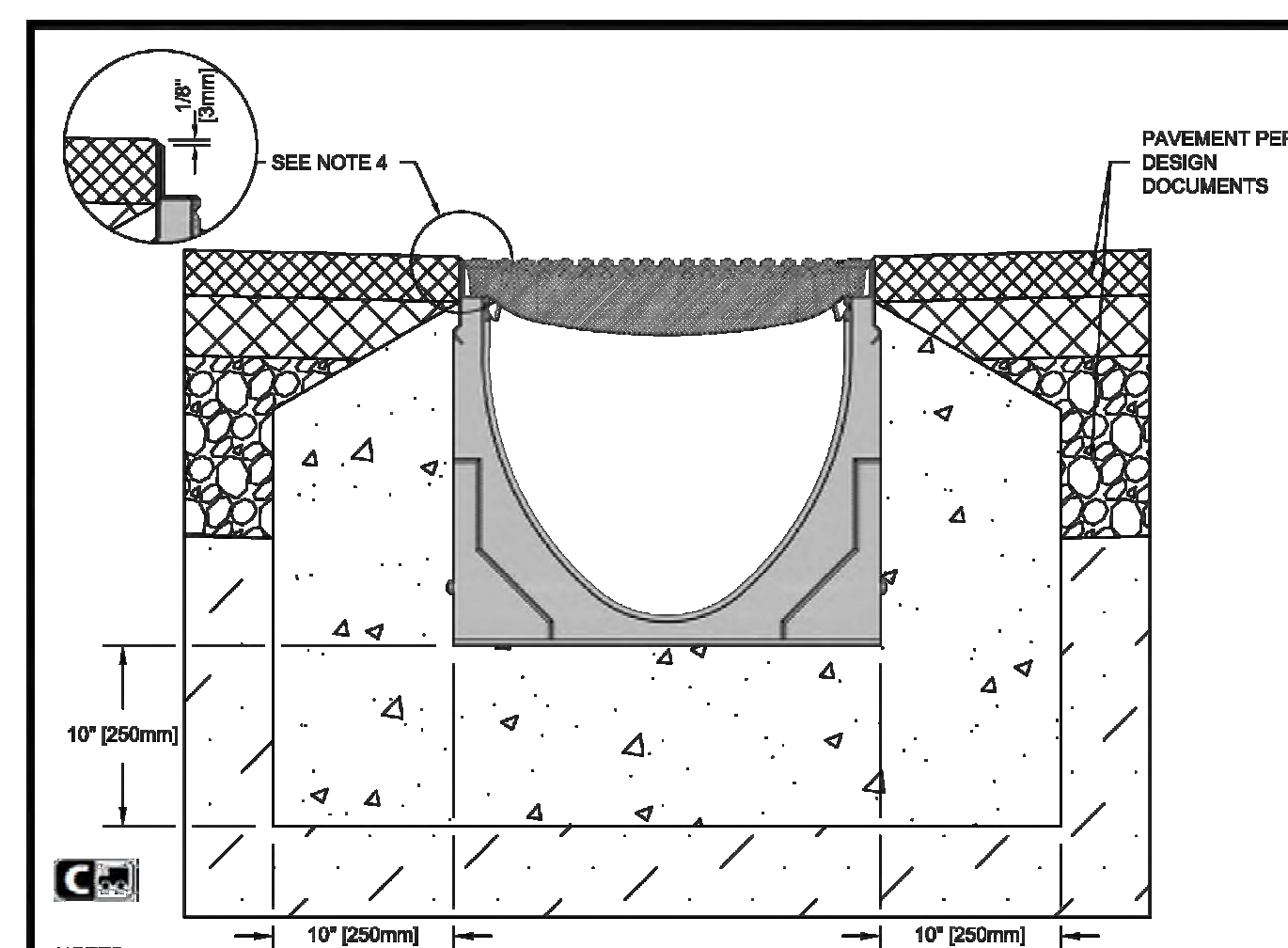
5 AREA DRAIN
C-401 NOT TO SCALE

- NOTES:**
- 12" - 30" FRAMES, GRATES, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - 12" - 30" FRAMES & GRATES SHALL BE STEEL PER ASTM A36.
 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC.
 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012, 7001-110-013, & 7001-110-014.
 - ALL OPTIONS SHALL MEET HS-20 LOAD RATING.



11 TRENCH DRAIN
C-401 SCALE: N.T.S.

- NOTES:**
- THE WIDTH OF THE MANHOLE WILL BE A MINIMUM OF 4' EXCEPT WHERE A NEW MANHOLE WITH A DROP CONNECTION IS SHOWN. THEN THE MINIMUM WIDTH OF THE MANHOLE IS 5'.
 - PRECAST CONCRETE STRUCTURES AND CASTINGS SHALL BE SUITABLE FOR HS-20 LOADINGS.
 - PRECAST CONCRETE STRUCTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
 - ALTERNATE TOP SLAB MAY BE USED AS DICTATED BY DESIGN AND/OR FIELD CONDITIONS.
 - MANHOLE FRAME AND GRATE(S) SHALL MEET MUNICIPAL AND STATE SPECIFICATIONS WHEN APPLICABLE.
 - REFER TO PROJECT SPECIFICATIONS FOR MORE DRAINAGE MANHOLE INFORMATION.
 - JOINT SEALANT BETWEEN SECTIONS SHALL BE BUTYL RUBBER.
 - PROVIDE ANTI-FLOTATION SLAB EXTENSION AS REQUIRED TO SATISFY ANTI-FLOTATION REQUIREMENTS.



SPECIFICATION CLAUSE

K300 KLASSIKDRAIN "DRAINLOK" LOAD CLASS C

GENERAL:
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K300 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTRINSICALLY CAST-IN GALVANIZED STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF:	YES
DILUTE ACID AND ALKALI RESISTANT:	YES
9117 SALT SPRAY TEST COMPLIANT:	YES

THE SYSTEM SHALL BE 12" (300mm) NOMINAL INTERNAL WIDTH WITH A 14.2" (360mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "M" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

NOTES:

- IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. ENGINEERING ADVICE MAY BE REQUIRED.
- MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
- EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. ENGINEERING ADVICE MAY BE REQUIRED.
- THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" (3mm) ABOVE THE TOP OF THE CHANNEL EDGE.
- CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
- REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

K300 - KLASSIKDRAIN - LOAD CLASS: C
Haunched Asphalt Pavement

INSTALLATION DRAWING - ACO DRAIN

Arizona Tel: 888-490-9552 e-mail: sales@acousa.com Ohio Tel: 800-543-4764 www.acousa.com South Carolina Tel: 800-543-4764

ACO Polymer Products, Inc.
825 W. Beachfront Dr.
Casa Grande, AZ 85122
Tel: 520-421-6888
Fax: 520-421-6888

9470 Phoenix Dr.
Merritt, OH 44860
Tel: 440-639-7200
Fax: 440-639-7235

4211 Pleasant Rd.
Port Hill, DC 20708
Tel: 464-639-7200
Fax: 803-402-0083

DATE: 08/18/18

8 TYPICAL WATER SERVICE CONNECTION
C-401 SCALE: N.T.S.

9 TYPICAL SEWER SERVICE CONNECTION
C-401 SCALE: N.T.S.

10 DRAINAGE MANHOLE
C-401 NOT TO SCALE

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ALTERNATIONS BY ANY PERSON IN ANY WAY OF ANY ITEM CONTAINED ON THIS DOCUMENT UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT OR ENGINEER SHALL BE AT THE RISK OF THE USER. A VIOLATION OF TITLE 16, SECTION 803.01 OF NEW YORK STATE LAW IS CONSIDERED A VIOLATION OF PROFESSIONAL ETHICS.

No.	Date	Issue
1	03/31/2020	50% DESIGN DEVELOPMENT
2	06/01/2020	DESIGN DEVELOPMENT
3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
4	07/12/2023	ISSUE FOR BID - PHASE 1

CONSTRUCTION DETAILS

Job No.	2020-1005	Date	06/29/2023
Scale	AS NOTED	Drawn / Checked	CJL/JLM/T
Sheet Number	C-401		

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 1

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

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SCICLONEX DESIGN NOTES

THE STANDARD SCX-04 CONFIGURATION IS SHOWN.

PLAN VIEW
TOP SLAB NOT SHOWN

SECTION A-A

SCICLONEX
www.Sciclonex.com

SCX-04 SCICLONEX STANDARD DETAIL

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	WATER QUALITY FLOW RATE (GAL/D)	PEAK FLOW RATE (GAL/D)	RETURN PERIOD OF PEAK FLOW (yrs)	RIM ELEVATION

PIPE DATA

PIPE DATA	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			

NOTES / SPECIAL REQUIREMENTS:

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechllc.com
- SCICLONEX WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- SCICLONEX STRUCTURE SHALL MEET ASHRAE 90.1-2010 LOAD RATING, ASSUMING EARTH COVER OF 2'-2" RIGID AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET ASHRAE 90.1-2010 AND BE CAST WITH THE CONTECH LOGO.
- SCICLONEX STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND ASHRAE LOAD FACTOR DESIGN METHOD.
- ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES

- ANY SUBBASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE SCICLONEX MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLY STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

1 HYDRODYNAMIC SEPARATOR TREATMENT STRUCTURE (HDS-1, HDS-2)
NOT TO SCALE

2 STORMWATER FILTER STRUCTURE (FS-1)
NOT TO SCALE

JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN. 877" MANHOLE JELLYFISH PEAK TREATMENT CAPACITY IS 1.18 CFS. IF THE SITE CONDITIONS EXCEED 1.18 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE DEPTH	54"	40"	28"	16"
OUTLET INVERT TO STRUCTURE INVERT (ft)	6'-0"	6'-0"	4'-2"	3'-2"
FLOW RATE HIGH-FLOW / DRAINDOWN (gpd per cart)	0.18 / 0.08	0.13 / 0.06	0.08 / 0.04	0.06 / 0.02
MAX. CARTS HIGH-FLOW / DRAINDOWN	6 / 1			

PLAN VIEW

SECTION A-A

JELLYFISH JF6 STANDARD DETAIL OFFLINE CONFIGURATION

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	WATER QUALITY FLOW RATE (GPD)	PEAK FLOW RATE (GPD)	RETURN PERIOD OF PEAK FLOW (yrs)	RIM ELEVATION

PIPE DATA

PIPE DATA	INVERT	MATERIAL	DIAMETER
INLET PIPE #1			
INLET PIPE #2			
OUTLET PIPE			

NOTES / SPECIAL REQUIREMENTS:

GENERAL NOTES

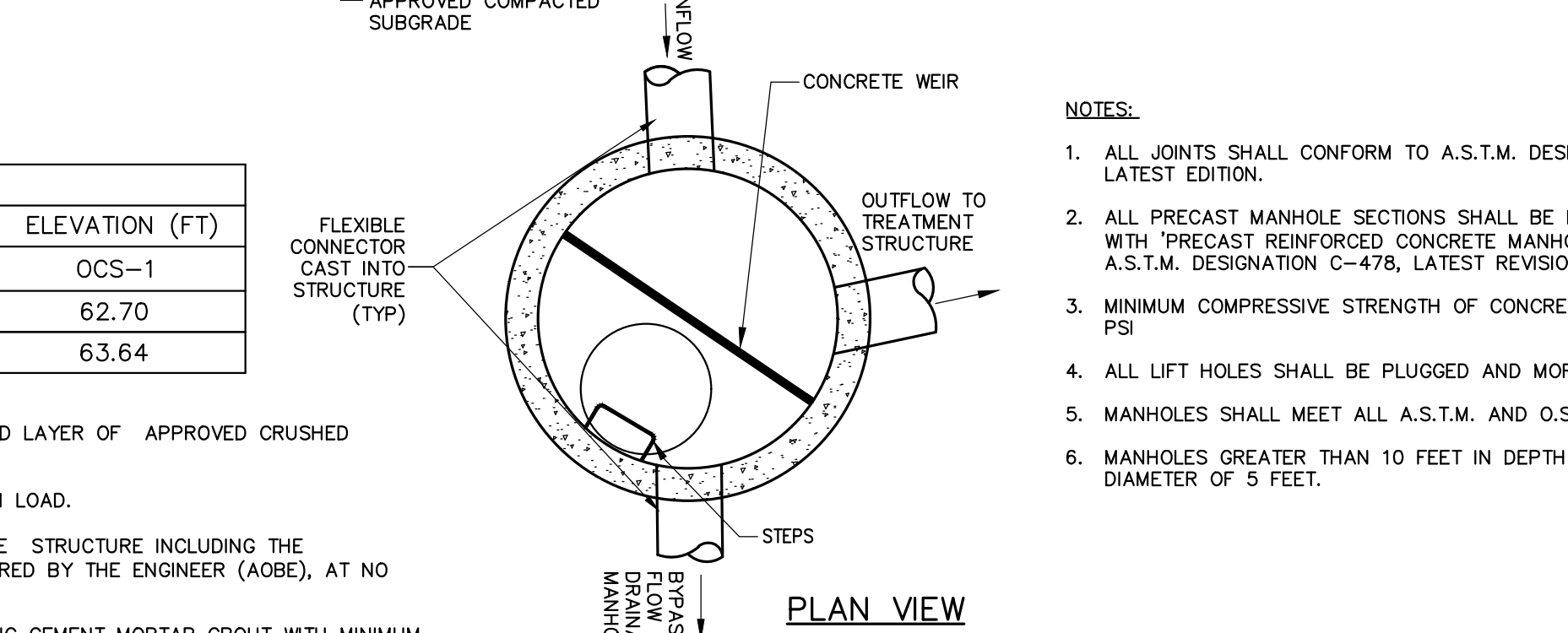
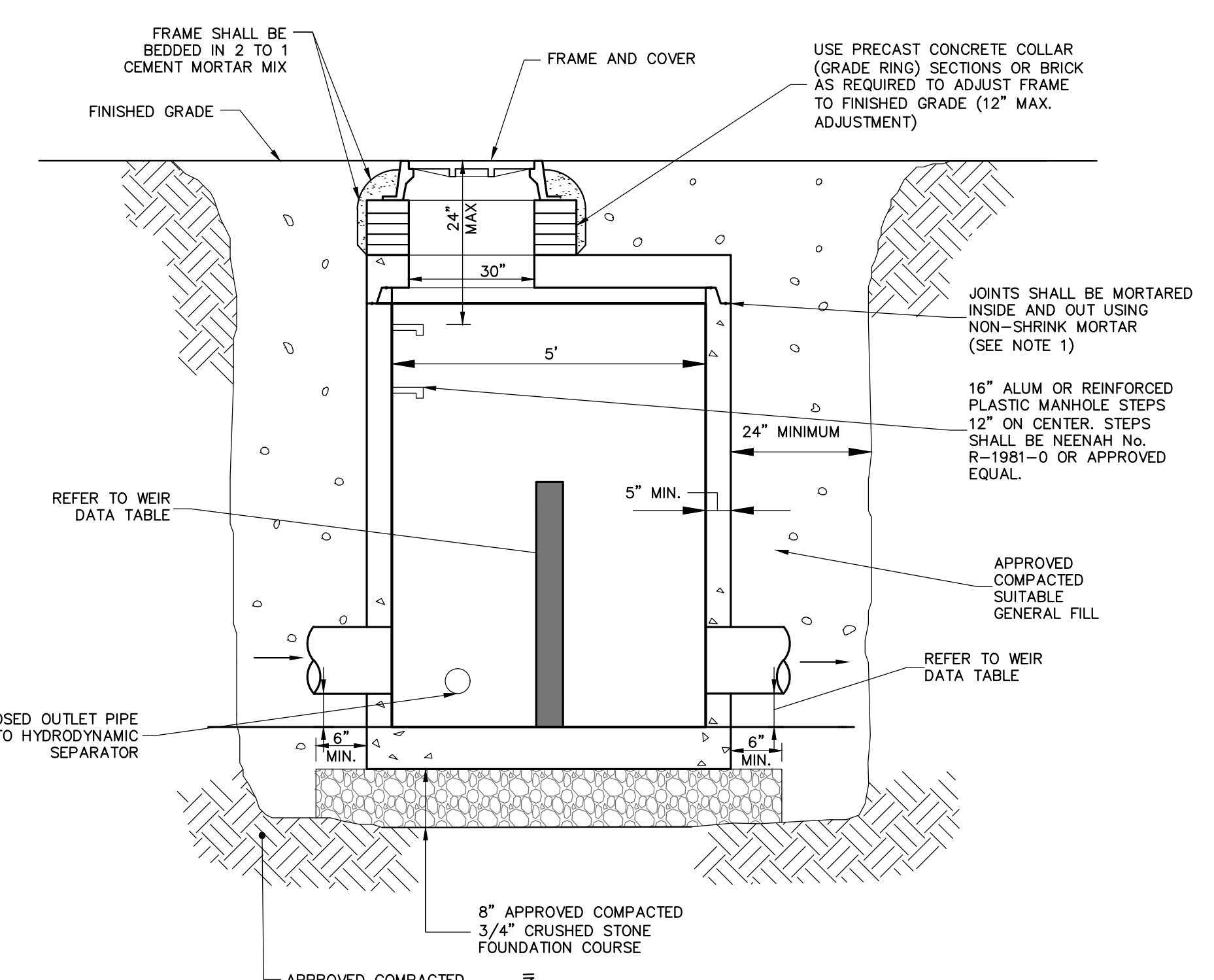
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.contechllc.com
- JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET ASHRAE 90.1-2010 PER APPROVED JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 2'-2" AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET ASHRAE 90.1-2010 AND BE CAST WITH THE CONTECH LOGO.
- STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND ASHRAE LOAD FACTOR DESIGN METHOD.
- NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED TO HAVE PRIOR TO PROJECT BID DATE OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES

- ANY SUBBASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
- CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (800) 740-2818.

C-402

C-402



- CATCH BASINS AND OUTLET CONTROL STRUCTURES**
- STEPS WILL NOT BE REQUIRED IN CATCH BASINS LESS THAN FOUR (4) FEET IN DEPTH. STEPS WILL BE REQUIRED IN CATCH BASINS FOUR (4) FEET OR GREATER IN DEPTH. DEPTHS FOR CATCH BASINS SHALL BE MEASURED FROM FINISHED GRADE TO INSIDE BOTTOM OF STRUCTURE (INCLUDING SUMP AS APPLICABLE).
 - STEPS SHALL BE LOCATED WITHIN STRUCTURE TO AVOID PLACEMENT OVER PIPES.
 - WHEN STEPS ARE REQUIRED, STEPS SHALL COMPLY WITH THE SAME REQUIREMENTS OF ASTM STANDARD C-478, ARTICLE 13 ENTITLED "MANHOLE STEPS & LADDERS".
 - PROVIDE REINFORCED CONCRETE TOP SLAB FOR OVERSIZED CATCH BASIN WITH PROPER SIZE OPENING TO ACCOMMODATE INSTALLATION OF CASTING (FRAME & GRATE).
 - FOR ALL STRUCTURES GREATER THAN 10 FEET IN DEPTH, STRUCTURES SHALL PROVIDE MINIMUM INSIDE DIMENSIONS OF 4 FEET X 4 FEET.

C-402

C-402

3 OUTLET CONTROL STRUCTURE
NOT TO SCALE

NOTE: ALL IDEAL, REVISION, AMENDMENTS AND PLANS ORIGINATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KG+D ARCHITECTS, PC AND ARE HEREBY ORIGINATED FOR USE ON THE PROJECT. NONE OF SUCH IDEAS, DESIGN, AMENDMENTS OR PLANS SHALL BE USED BY OR DECISIONS TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF KG+D.

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No.	Date	Issue
4	07/12/2023	ISSUE FOR BID - PHASE 1
3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

CONSTRUCTION DETAILS

Job No. 2020-1005 Date 06/29/2023

Scale AS NOTED Drawn / Checked CJU/JLMT

Sheet Number C-402

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 1
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET - MOUNT KISCO, NEW YORK 10549
P914.666.5900 KGDARCHITECTS.COM

Woodard & Curran
Woodard & Curran Engineering & Architecture
600 Westchester Avenue, Suite 1007
New York, NY 10571
800.801.4280 | www.woodardcurran.com

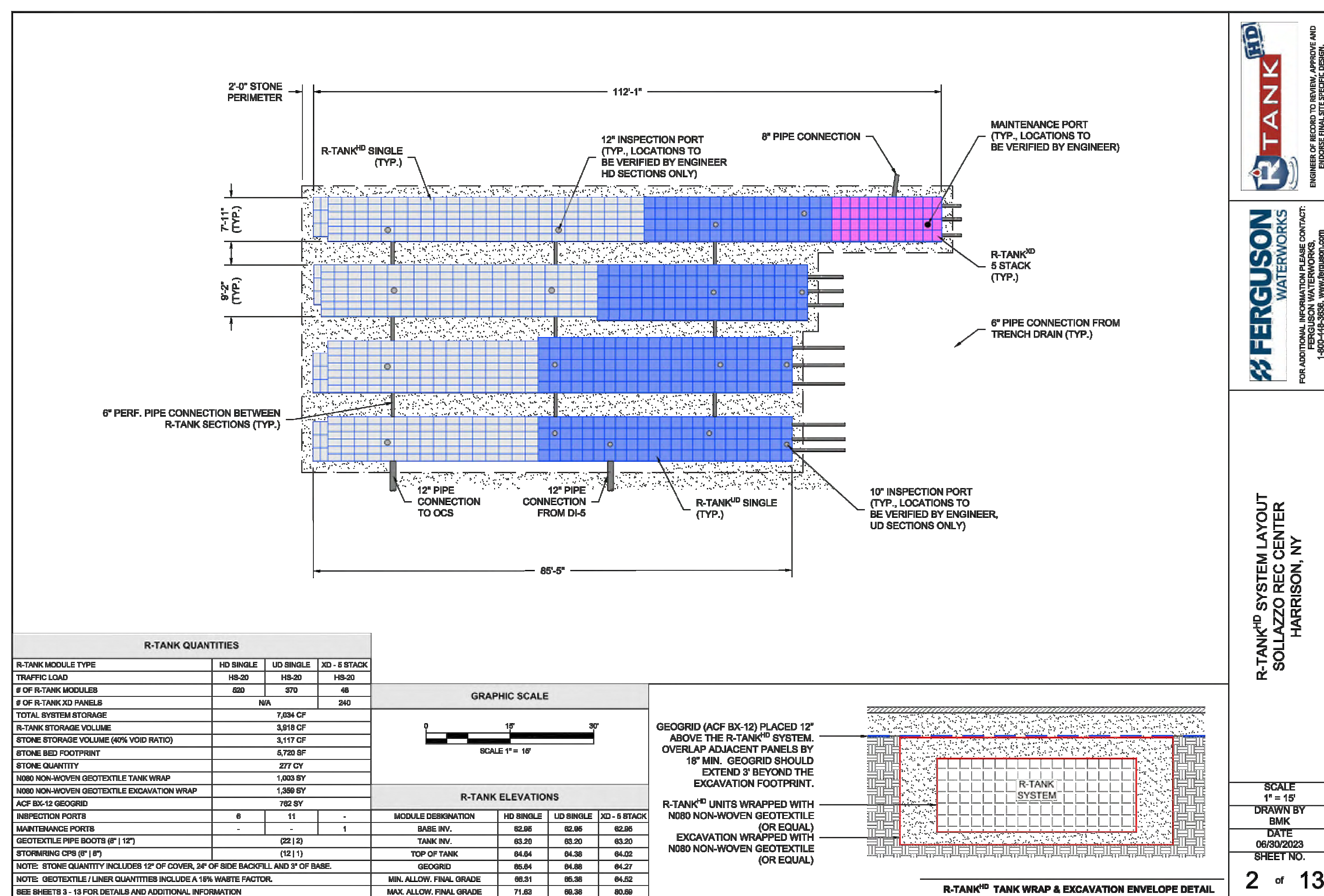
CONSTRUCTION DOCUMENTS



FERGUSON WATERWORKS
FOR ADDITIONAL INFORMATION PLEASE CONTACT:
1-800-543-5000 WWW.FERGUSON.COM

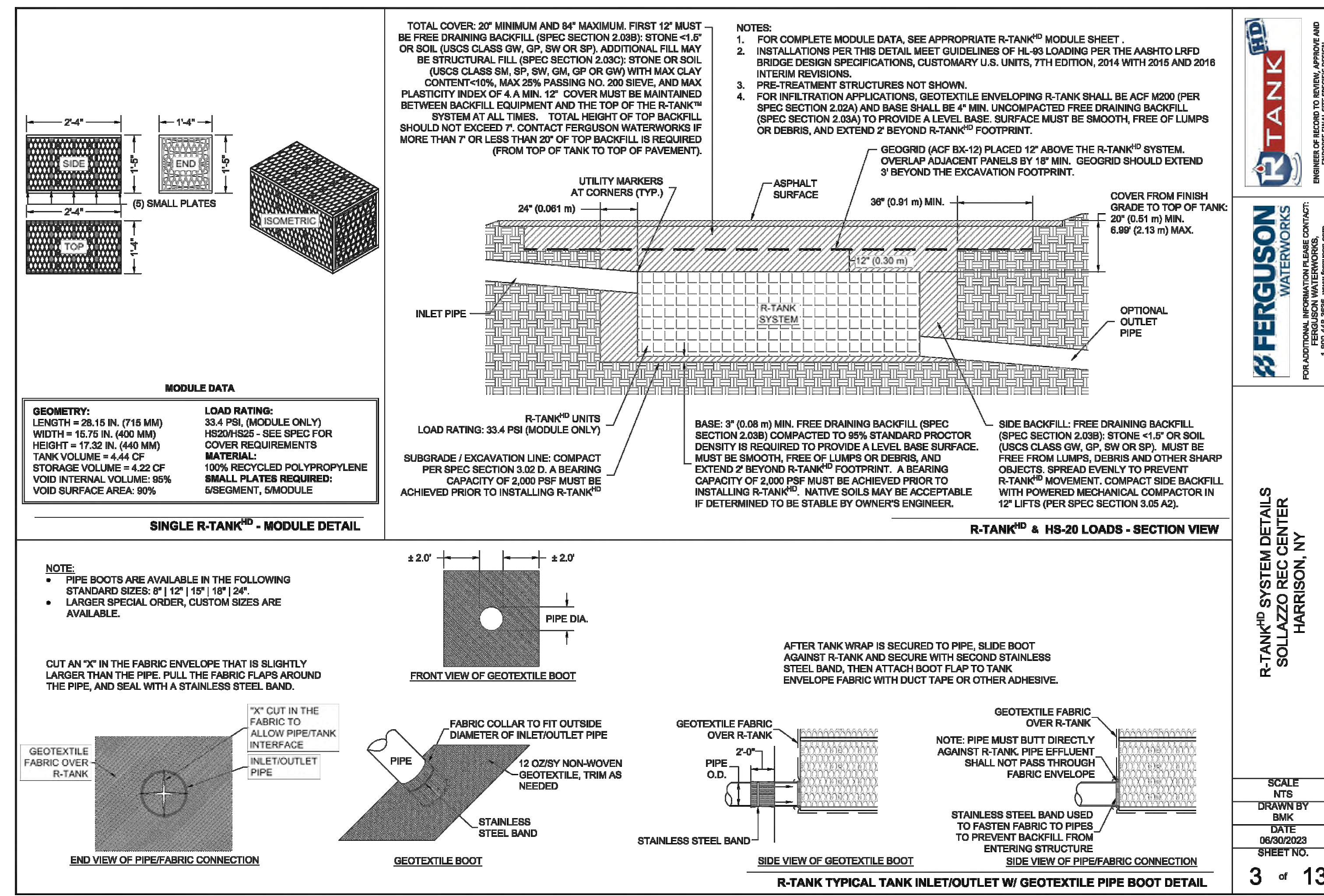
**R-TANK® SYSTEM OVERLAY
SOLLAZZO REC CENTER
HARRISON, NY**

SCALE 1" = 10'
DRAWN BY: BMK
DATE: 06/09/2023
SHEET NO.: 1 of 13



R-TANK QUANTITIES			
R-TANK MODULE TYPE	HD SINGLE	LD SINGLE	XD - 3 STACK
TRAFFIC LOAD	HS-20	HS-20	HS-20
# OF R-TANK MODULES	500	279	48
# OF R-TANK XD PANELS	N/A	279	48
TOTAL SYSTEM STORAGE	7,294 CF		
R-TANK STORAGE VOLUME	3,974 CF		
STONE STORAGE VOLUME (80% VOID RATE)	3,117 CF		
STONE BED FOOTPRINT	8,725 SF		
STONE QUANTITY	277 CY		
NON-WOVEN GEOTEXTILE TANK WRAP	1,083 SF		
ACF BX-12 GEOTEXTILE	182 SF		
INSPECTION PORTS	8	11	1
MAINTENANCE PORTS	1		
GEOTEXTILE PIPE BOOT (8\"/>			

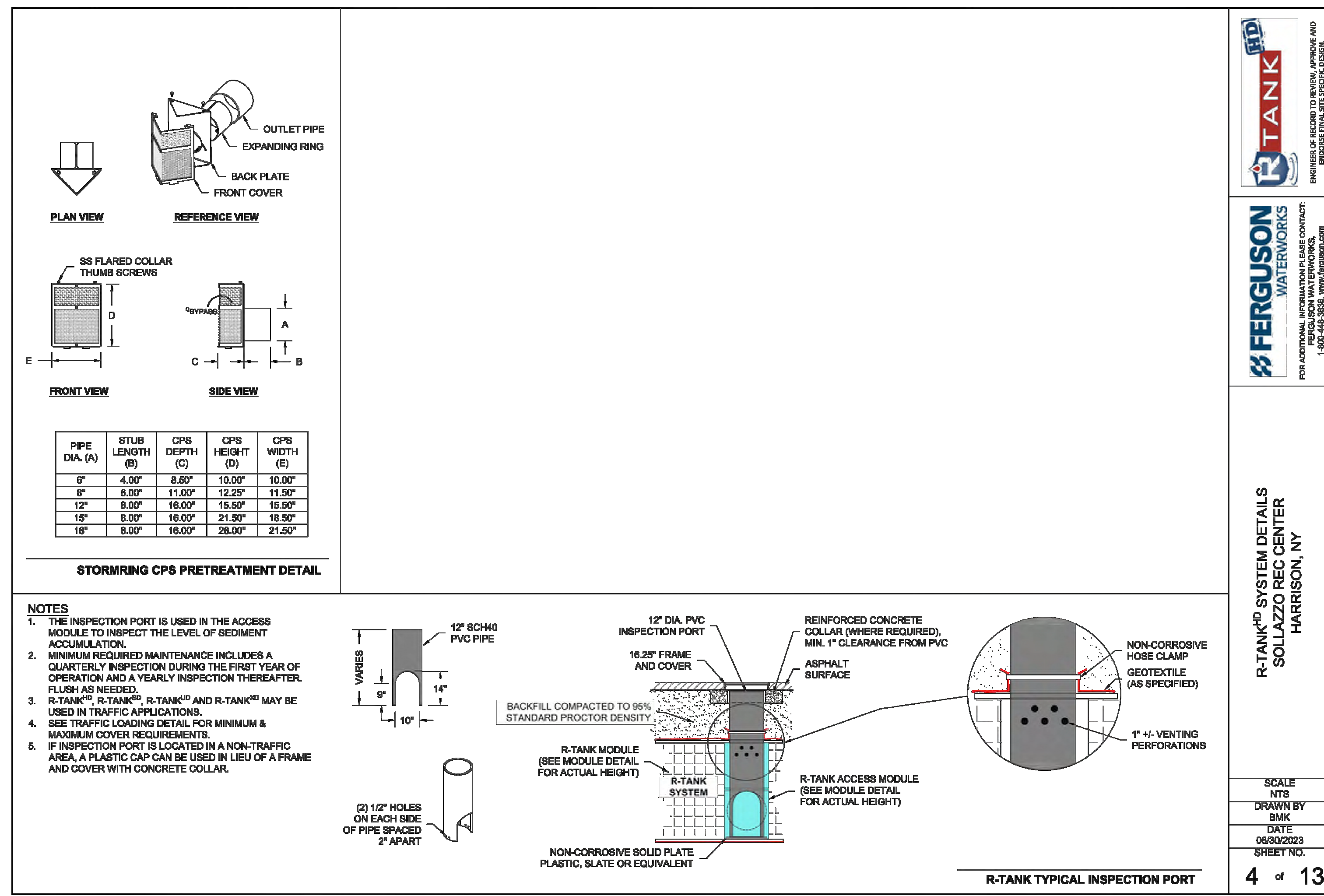
R-TANK ELEVATIONS			
MODULE DESIGNATION	HD SINGLE	LD SINGLE	XD - 3 STACK
BASE INV.	62.20	62.20	62.20
TANK INV.	62.20	62.20	62.20
TOP OF TANK	64.64	64.38	64.02
NOTE: STONE QUANTITY INCLUDES 12\"/>			



FERGUSON WATERWORKS
FOR ADDITIONAL INFORMATION PLEASE CONTACT:
1-800-543-5000 WWW.FERGUSON.COM

**R-TANK® SYSTEM DETAILS
SOLLAZZO REC CENTER
HARRISON, NY**

SCALE 1" = 10'
DRAWN BY: BMK
DATE: 06/09/2023
SHEET NO.: 3 of 13



FERGUSON WATERWORKS
FOR ADDITIONAL INFORMATION PLEASE CONTACT:
1-800-543-5000 WWW.FERGUSON.COM

**R-TANK® SYSTEM DETAILS
SOLLAZZO REC CENTER
HARRISON, NY**

SCALE 1" = 10'
DRAWN BY: BMK
DATE: 06/09/2023
SHEET NO.: 4 of 13

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No.	Date	Issue
4	07/12/2023	ISSUE FOR BID - PHASE 1
3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

CONSTRUCTION DETAILS

Job No. 2020-1005 Date 06/29/2023
Scale AS NOTED Drawn / Checked CJU/JLMT
Sheet Number

C-403

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison 2070 Harrison Avenue Harrison, NY 10528



KG+D ARCHITECTS, PC 285 MAIN STREET - MOUNT KISCO, NEW YORK 10549 P.914.666.5900 KGDARCHITECTS.COM



CONSTRUCTION DOCUMENTS

General Notes:

- 1 The purpose of these drawings is to show the structural work associated with the Harrison Recreation and Community Center in Harrison, NY... 2 The work shown on these drawings has been designed in accordance with the structural requirements of the 2020 edition of the Building Code of New York State... 3 The structural components have been designed for the following loads: 4 The structural components have been designed for the following loads: A. Uniform live load: Corridors 100 psf... B. Roof loads: Snow: Ground snow load, pg 30 psf... C. Wind design data: Wind loads have been determined based on Section 1609.1.1 in accordance with ASCE 7-16... D. Earthquake design data: Risk category III... E. Other loads: Concentrated loads: All floors except as noted (on 2-1/2 feet square) 1000 lbs... F. Special loads: Retaining walls: Lateral equivalent fluid pressure 32.5 psf... G. Groundrails (load applied in any direction): Top rail concentrated load 200 lbs... 5 This structure has been designed to be self-supporting and stable after the work shown on these drawings has been completed... 6 This structure utilizes moment frames to provide lateral stability... 7 Jobsite safety and construction procedures are solely the responsibility of the contractor... 8 PDF digital files of all erection and detail shop drawings for steel reinforcing bars (concrete and concrete-masonry construction), structural steel, cold-formed metal framing (wall framing), and steel deck, indicating the fabricator, manufacturer, finish, layout, and all accessories, must be submitted to and be checked by the contractor and subcontractor and bear the checker's initials before submission to the architect for review prior to fabrication... 9 Testing and inspection of concrete, steel reinforcing bars (concrete and concrete masonry construction), concrete masonry, structural steel, steel deck, cold-formed metal framing, and other work are described in the project "Statement of Special Inspections". The contractor shall review the "Statement of Special Inspections" and coordinate the scheduling of inspections with the special inspector... 10 If faulty construction procedures, or material, result in defective work that requires additional engineering time to devise corrective measures, professional fees may be charged to the contractor at the standard hourly rate of additional services... 11 Loads, openings and structure in any way related to requirements of other (non-structural) disciplines are shown for bridging purposes only... 12 The contractor shall verify all dimensions, elevations and angles with architectural drawings and existing conditions before proceeding with any work... 13 The contractor shall field verify existing conditions before proceeding with any work... 14 The contractor and subcontractors shall obtain the latest copies of approved plans and surveys and they shall familiarize themselves thoroughly with these plans before commencing any work... 15 These drawings are supplemented by a detailed technical specification... 16 Do not scale drawings.

Codes and Standards References

- 1 Concrete: Concrete work shall conform to all the requirements of ACI 301-10, "Specifications for Structural Concrete in Buildings" and ACI 318-14, "Building Code Requirements for Structural Concrete"... 2 Concrete masonry: Concrete masonry work shall conform to the requirements of "Building Code Requirements for Masonry Structures, TMS 402-13" and "Specifications for Masonry Structures, TMS 602-13"... 3 Design, fabrication and erection of structural steel shall conform to the AISC 360-16 "Specification for Structural Steel for Buildings" as adopted on July 7, 2016, by the American Institute of Steel Construction (AISC) and the 15th Edition of the AISC Steel Construction Manual... 4 Design, fabrication and erection of steel deck shall conform to the SDI NC-2010 "Standard for Noncomposite Steel Floor Deck", SDI RD-2010 "Standard for Steel Roof Deck", SDI C-2011 "Standard for Composite Steel Floor Deck - Slabs"... 5 Cold formed metal framing: Design, fabrication and erection of cold-formed metal framing shall conform to the American Iron and Steel Institute's AISI S100-16 "Specification for the Design of Cold-Formed Steel Structural Members", 2016... Foundation notes: 1 Recommendations for the site preparation and earthwork within the perimeter of the proposed new structure, preparation of soil bearing surfaces, material specification and placement of structural backfill for support of slabs-on-grade are stated in the geotechnical engineering report prepared for this project by Skylands Engineering, LLC and dated 19 April, 2019... 2 The slab-on-grade sub-base shall be a crusher run stone free from soft disintegrated pieces, mud, dirt, or other injurious material... 3 Submittals to the engineer are required for structural CM and slab sub-base... Concrete Notes: 1 All concrete work shall conform to all the requirements of ACI 301, "Specifications for Structural Concrete in Buildings" and ACI 318 "Building Code Requirements for Structural Concrete", indicated in the code reference section of these general notes... 2 Concrete shall be the specified weight and develop a minimum compressive strength in 28 days as follows: Minimum Maximum W/C Ratio (or slump where indicated) Slabs-on-grade-interior Normal 4,000 psi 0.45 Slabs-on-metal-deck Normal 3,500 psi Slump: 4" +/- 1" 3 All detailing fabrication, and erection of reinforcing bars, unless otherwise noted, must follow the latest ACI code and the latest ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures"... 4 Concrete design mix will be submitted to the engineer for review, together with laboratory reports attesting that the mixes can attain the minimum strength required in accordance with ACI 301 indicated above... 5 Portland cement shall be Type I or Type II and conform to ASTM C 150... 6 Other cementitious material such as flyash, ground granulated blast-furnace slag, or ground glass pozzolan may be blended with cement for use in the concrete mix... 7 For normal weight concrete: coarse aggregate shall be 3/4" and conform to ASTM C 33... 8 No admixtures are permitted without the engineer's written permission other than entrained air... 9 Limit water-soluble, chloride-ion content in hardened concrete to the following percent by weight of cement... 10 Reinforcing steel shall conform to ASTM A 615, Grade 60... 11 Welded wire fabric shall conform to ASTM A 1064 with a minimum yield strength of 65 ksi... 12 Vapor retarder shall be Stego Wrap (15 mil) vapor retarder by Stego Industries LLC... 13 The conveyance, placement and protection of the concrete shall conform to the requirements of ACI 318, indicated above, and ACI 304R, "Guide for Measuring, Mixing, Transporting and Placing Concrete"... 14 Welding of reinforcing steel shall be permitted for the anticipated deflection... 15 All lap splices shall be Class B, in accordance with ACI 318 indicated above... 16 Finish elevated floor slabs flat and level within a tolerance of +/- 1/4 inches to the elevation indicated on the drawings... 17 The installation of slabs shall conform to the requirements of ACI 302.1R, "Guide to Concrete Form and Slab Construction"... 18 Expansion and isolation joints: Filler strips, ASTM D 1171, asphalt-saturated cellululosic fiber or ASTM D 1752, cork or self expanding cork Sealant at top of joint: Sikaflex 2c SL poly urethane elastomeric sealant... 19 The curing and protection of concrete shall conform to the requirements of ACI 308.1 and ACI 308R, "Guide to Curing Concrete"... 20 Cold weather concrete placement: If cold weather concreting conditions exist as defined by a period of more than three days when the average outdoor temperature, (high + low)/2, is less than 40 deg. F... 21 Hot weather concrete placement: Maintain concrete temperature below 90 deg. F... 22 Accurately position, support, and secure reinforcement and anchors against displacement... 23 Sizes and locations of all required embedded items, such as anchor bolts, piping sleeves, etc., for all trades shall be coordinated by the general contractor with other trades... 24 Submittals to the engineer are required for concrete mix designs, cement, reinforcing bars, admixtures, and aggregates... Concrete Masonry Notes: 1 All concrete masonry work shall conform to the requirements of the "Building Code Requirements for Masonry Structures, TMS 402" and the "Specifications for Masonry Structures, TMS 602", indicated in the code reference section of these general notes... 2 The compressive masonry strength, fm, shall be 1,900 psi minimum... 3 Concrete block shall be lightweight hollow load bearing masonry units conforming to ASTM C 90, with a minimum ultimate compressive strength of 1,900 psi on the net area of the units... 4 Portland cement used in the mortar and grout shall conform to ASTM C 150... 5 Mortar shall be Type S conforming to the volumetric proportions set forth in ASTM C 270... 6 Coarse grout used in plasters and walls shall conform to the volumetric proportions set forth in ASTM C 476... 7 Steel reinforcing bars shall conform to ASTM A 615, Grade 60... 8 Joint (horizontal) reinforcing shall be hot-dipped galvanized W1.7 (9 gage) steel wire, ASTM A 951 with ASTM A 153 Class B-2 coating, Ladder type, by Hohmann & Barnard, Inc., or an approved equal... 9 Planes units which mortar is soft and plastic... 10 Fully bed units in all shear walls including cross walls... 11 All cells with reinforcing bars or bolts shall be grouted solid... 12 Vertical cells to be grouted solid shall have a minimum clear opening of 3"x2-1/2"... 13 Consolidate grout pours exceeding 12 inches in height by mechanical vibration and reconsolidate by mechanical vibration after initial water absorption and settling has occurred... 14 The structural plans do not show the full extent of masonry lintels that may be required for doors, windows, ducts, louvers, etc... 15 Steel Deck Notes: 1 Steel deck shall be designed, fabricated, and erected in accordance with the Steel Deck Institute specification indicated in the code reference section of these general notes.

- 15 Masonry opening lintels have been designed on the basis of arching action of the completed wall... 16 Masonry shall not be constructed in temperatures below 40 F... 17 Masonry shall not be constructed in temperatures below 40 F... 18 Hot weather construction techniques shall be in accordance with ACI 530.1 and shall be implemented when the ambient air temperature exceeds 100 F... 19 Unless otherwise shown on architectural or structural drawings provide vertical control joints through concrete masonry unit walls for full wall height as follows: A Distance between joints should not exceed the lesser of length to height ratio of 1.5, or 25 feet... 20 Submittals to the engineer are required for certificates of compliance for block grade and strength, grout, mortar, and reinforcing bars prior to delivery to the site... Connections to Existing Masonry or Hardened Concrete: 1 All proprietary anchoring systems (expansion, adhesive anchoring systems, etc.) to be installed into hardened concrete and masonry elements are to be installed in strict accordance with the manufacturer's instructions... 2 For connections to hardened concrete and masonry, contractor must locate the position of existing reinforcing bars... 3 Connections to hardened concrete shall be made with anchors conforming to ACI 318... Adhesive for reinforcing bars and anchors shall have been tested in accordance with ACI 355.4... Adhesive bond design strength is based upon concrete that has cured at least 21 days with a minimum compressive strength of 2,500 psi... Installation method shall be in accordance with the Manufacturer's Printed Installation Instructions (MPI)... Adhesive anchoring system for base material temperatures between 14 degrees and 80 degrees or Simpson "Set-3G" adhesive anchoring system for temperatures above 40 degrees... Adhesive for reinforcing bars and anchors shall have been tested in accordance with ACI 355.4... Adhesive bond design strength is based upon concrete that has cured at least 21 days with a minimum compressive strength of 2,500 psi... Cold-Formed Metal Framing Notes: 1 Design, fabrication, and erection of cold-formed metal framing shall conform to the American Iron and Steel Institute's "Specification for the Design of Cold-Formed Steel Structural Members", indicated in the code reference section of these general notes... 2 All studs and/or joists and accessories shall be of the type, size, steel thickness and spacing shown on the drawings... 3 All studs, joists and accessories shall be formed from steel that conforms to the requirements of ASTM A 1003 with yields as follows: i. 16 ga (0.054") or heavier 50 ksi ii. 18 ga (0.043") or lighter 33 ksi... 4 All studs, joists and accessories shall be galvanized with a minimum G-60 coating... 5 Touchup paint: Immediately after fabrication and erection, clean welds, fasteners, and damaged galvanized surfaces... 6 Cold formed metal sizes and attachments shall not be less than those indicated on the contract documents... 7 Where framing systems are not shown on the drawings, provide delegated design of framing systems for the design loads indicated in the contract documents... 8 Connections shall be accomplished with self-driving screws or welding so that the connection meets or exceeds the design loads required at that connection... 9 All connections shall be made using a minimum of four (4) No. 10-16 screws... 10 Minimum connection angle thickness shall be 16 gage, but no thinner than the material of the members that are being connected... 11 Welding shall conform to Structural Welding Code D1.1 and Specification for Welding Sheet in Structures E1.3 of the American Welding Society... 12 Temporary bracing shall be provided and left in place until work is permanently stabilized... 13 Joists shall be located directly over bearing studs or a load distribution member shall be provided to transfer loads... 14 All built-up framing members shall be of welded construction, unless otherwise noted... 15 Avoid holes at ends of members... 16 Provide lateral bracing, bridging, and web stiffeners for vertical and horizontal framing members... 17 Track: 16 gage minimum securely anchored to adjacent structure or member... 18 All framing components: cut squarely or at an angle to fit squarely against abutting members... 19 Studs: Seated squarely in the track with the stud web and flanges abutting the track web... 20 Splices in studs and other framing components: Not permitted... 21 Shape designations and section properties are based on the universal system for light gage steel framing members... 22 Submittals to the engineer are required for certificates of compliance for framing members (studs, joists, tracks, etc.), screws, and accessories... 23 Shop drawings: Show layout, spacing, sizes, thickness, material specification, and types of cold-formed metal framing... Regarding delegated design of cold formed framing, the cold-formed metal engineer and fabricator shall design only members and connections that are not shown on the drawings and shall submit calculations of all designs, signed and sealed by a qualified professional engineer... General Notes: 1 Steel deck shall be designed, fabricated, and erected in accordance with the Steel Deck Institute specification indicated in the code reference section of these general notes.

- 2 Composite formed steel floor deck to be 2" deep, 20 gage (uncoated steel thickness = 0.0358"), galvanized (G60 coating), Untreated Steel Deck Type Lok-Floor, composite floor deck as manufactured by Canam Steel Corporation, or an approved equal... 3 Formed steel roof deck to be 1-1/2" deep, 20 gage (uncoated steel thickness = 0.0358"), galvanized (G60 coating), wide rib, Untreated Steel Deck "B" Deck profile, as manufactured by Canam Steel Deck, Incorporated or an approved equal at locations indicated on plans... 4 Formed acoustic steel roof deck at the Gymnasium and Fitness Center to be 2-1/2" deep, 20 gage (uncoated steel thickness 0.0358") galvanized, Epic Tots A deck profile with flat bottom, as manufactured by Epic Metals or an approved equal... 5 The steel deck shall be supplied in minimum lengths as required to provide a "3-span" condition... 6 Composite formed steel floor deck shall be welded to supporting steel with 5/8" diameter puddle welds at 12" on center... 7 Formed steel roof deck shall be welded to supporting steel with 5/8" diameter puddle welds at all edge ribs plus a sufficient number of interior ribs to meet the spacing between adjacent points of attachment to 6" on center... 8 Steel deck must be protected before and after erection and all debris cleaned from its surface where concrete will be poured or roofing is to be placed... Lintel Notes: 1 Unless otherwise noted, for lintels over doors, windows, ducts, and miscellaneous openings in non-bearing 4", 8" and 12" CMU walls and brick walls use for each 4" of masonry: Angle size Bearing each end 3 1/2" x 3/8" flat plate 2-0" 6" 3 1/2" x 4" x 5/16" (LLV) 3-6" 6" 3 1/2" x 5" x 5/16" (LLV) 5-0" 8" 3 1/2" x 6" x 5/16" (LLV) 8-0" 8" 3 1/2" x 6" x 3/8" (LLV) 8-0" 8" 2 Openings in non-bearing walls masonry where no specific lintels or lintel sizes are indicated shall have 8" bearing at each end and shall have the following sizes: Max. M.O. Wall thickness Lintel size 9'-0" Wx24 5/16" plate 12'-0" Wx28 5/16" plate 12'-0" Wx35 5/16" plate Plates indicated in above lintels shall have a width 1" less than the wall thickness and a length 1" less than the masonry opening... 3 Fill the first two courses directly under bearing with grout for 16" length... 4 See architectural and mechanical drawings for size and location of openings... 5 Lintels over adjacent openings with piers between shall be 2'-8" wide shall be continuous over piers... 6 Connect lintel to structural steel columns when there is less than 16" of masonry between the masonry opening and the outermost face of column... 7 Lintels supporting exterior masonry shall be hot-dipped galvanized... 8 Lintels for openings in walls: These plans do not show the full scope of steel lintels required for new wall openings for doors, windows, ducts, louvers, etc... 9 Adhesive for reinforcing bars and anchors shall have been tested in accordance with ACI 355.4... Adhesive bond design strength is based upon concrete that has cured at least 21 days with a minimum compressive strength of 2,500 psi... Cold-Formed Metal Framing Notes: 1 Design, fabrication, and erection of cold-formed metal framing shall conform to the American Iron and Steel Institute's "Specification for the Design of Cold-Formed Steel Structural Members", indicated in the code reference section of these general notes... 2 All studs and/or joists and accessories shall be of the type, size, steel thickness and spacing shown on the drawings... 3 All studs, joists and accessories shall be formed from steel that conforms to the requirements of ASTM A 1003 with yields as follows: i. 16 ga (0.054") or heavier 50 ksi ii. 18 ga (0.043") or lighter 33 ksi... 4 All studs, joists and accessories shall be galvanized with a minimum G-60 coating... 5 Touchup paint: Immediately after fabrication and erection, clean welds, fasteners, and damaged galvanized surfaces... 6 Cold formed metal sizes and attachments shall not be less than those indicated on the contract documents... 7 Where framing systems are not shown on the drawings, provide delegated design of framing systems for the design loads indicated in the contract documents... 8 Connections shall be accomplished with self-driving screws or welding so that the connection meets or exceeds the design loads required at that connection... 9 All connections shall be made using a minimum of four (4) No. 10-16 screws... 10 Minimum connection angle thickness shall be 16 gage, but no thinner than the material of the members that are being connected... 11 Welding shall conform to Structural Welding Code D1.1 and Specification for Welding Sheet in Structures E1.3 of the American Welding Society... 12 Temporary bracing shall be provided and left in place until work is permanently stabilized... 13 Joists shall be located directly over bearing studs or a load distribution member shall be provided to transfer loads... 14 All built-up framing members shall be of welded construction, unless otherwise noted... 15 Avoid holes at ends of members... 16 Provide lateral bracing, bridging, and web stiffeners for vertical and horizontal framing members... 17 Track: 16 gage minimum securely anchored to adjacent structure or member... 18 All framing components: cut squarely or at an angle to fit squarely against abutting members... 19 Studs: Seated squarely in the track with the stud web and flanges abutting the track web... 20 Splices in studs and other framing components: Not permitted... 21 Shape designations and section properties are based on the universal system for light gage steel framing members... 22 Submittals to the engineer are required for certificates of compliance for framing members (studs, joists, tracks, etc.), screws, and accessories... 23 Shop drawings: Show layout, spacing, sizes, thickness, material specification, and types of cold-formed metal framing... Regarding delegated design of cold formed framing, the cold-formed metal engineer and fabricator shall design only members and connections that are not shown on the drawings and shall submit calculations of all designs, signed and sealed by a qualified professional engineer... GENERAL STRUCTURAL NOTES

Key Plan

OWNERSHIP, USE AND ALTERATION OF DOCUMENTS

The client acknowledges that the documents, drawings, specifications, including electronic media files are instruments of the Design Engineering Group... The client agrees to the fullest extent permitted by law to indemnify and hold harmless the Design Engineering Group, its officers, directors and employees from any and all claims, suits, damages, demands or expenses from any third party...

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Revision table with columns: No., Date, Issue

GENERAL STRUCTURAL NOTES

Job No., Date, Scale, Drawn/Checked, Sheet Number

S001

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

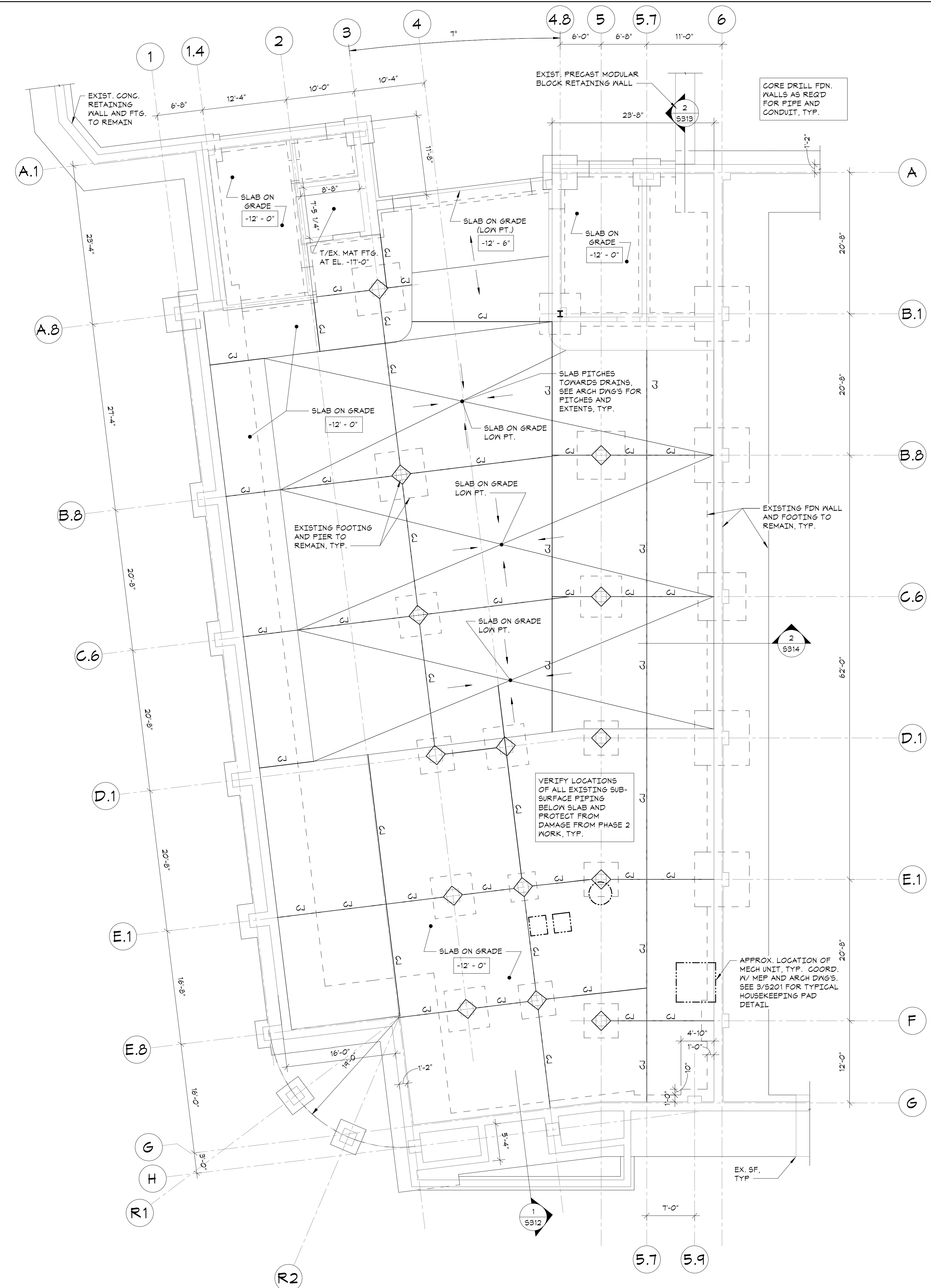
270 Harrison Avenue
Harrison, NY 10528



KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM



CONSTRUCTION DOCUMENTS



LOWER LEVEL SLAB-ON-GRADE PLAN
1/8"=1'-0"

- TOP OF PARKING LEVEL = -12'-0" FROM FIRST FLOOR DATUM.
- TYPICAL SLAB-ON-GRADE CONSTRUCTION: 6" CONCRETE SLAB ON GRADE, REINFORCED WITH 6x6 - #2 (M&2) WELDED WIRE FABRIC, UNLESS OTHERWISE NOTED. FOR DETAILS, SEE 1/5201.
- FOR FOUNDATION CONDITION AT EXTERIOR DOORS, SEE "TYPICAL DETAIL AT EXTERIOR DOORS".
- COORDINATE ALL PITS, TRENCHES, POCKETS, BRICK SHELVES, SLEEVES, PENETRATIONS AND INSERTS IN CONCRETE WALLS AND SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE GENERAL NOTES ON SHEET 5001 FOR ADDITIONAL INFORMATION.

- LEGEND:**
- [ELEVATION] INDICATES TOP OF CONCRETE SLAB ELEVATION FROM TOP OF FIRST FLOOR DATUM ELEVATION. MAINTAIN FULL SLAB THICKNESS AT SLOPED AND DEPRESSED AREAS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT.
 - "CJ" INDICATES APPROXIMATE LOCATION OF CONTROL/CONSTRUCTION JOINTS IN SLABS ON GRADE. FOR DETAILS, SEE "TYPICAL SLAB ON GRADE DETAIL".

Key Plan

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3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

No. Date Issue

**LOWER LEVEL
SLAB-ON-GRADE
PLAN**

Job No. 20029.00 Date 2020-06-01

Scale AS NOTED Drawn / Checked JM / EM

Sheet Number

S100

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build
KG+D ARCHITECTS, PC
 285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
 P:914.666.5900 KG+DARCHITECTS.COM

The DiSalvo Engineering Group
 Structural Engineers
 93 Lake Avenue, Suite 201
 Danbury, CT 06810
 [203]490-4140 | www.tdeg.com

CONSTRUCTION DOCUMENTS

Key Plan

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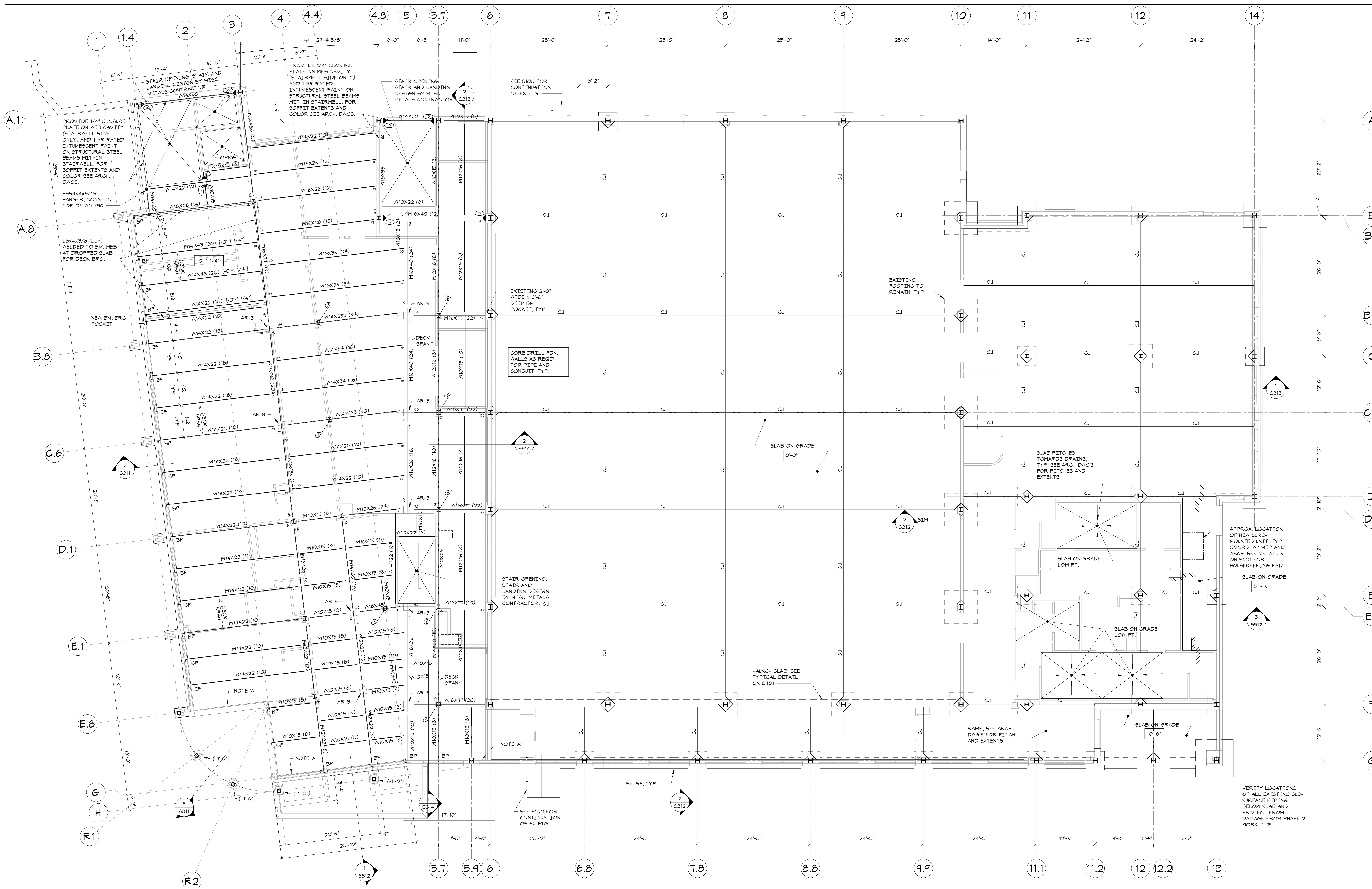
Professional Seal

3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

No. Date Issue

FIRST FLOOR FRAMING AND SLAB-ON-GRADE PLAN

Job No.	20029.00	Date	2020-06-01
Scale	AS NOTED	Drawn / Checked	JM / EM
Sheet Number	S101		



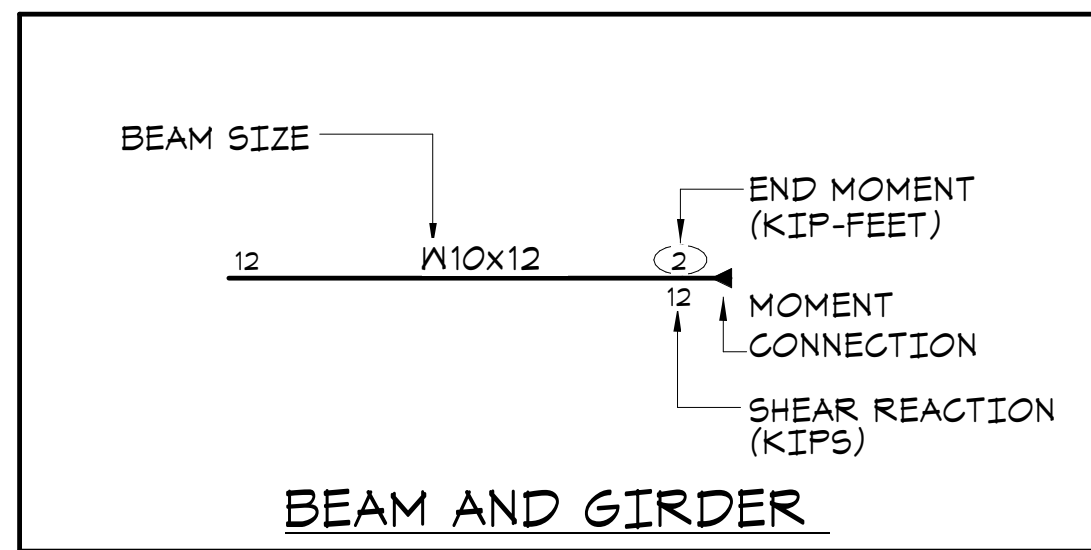
FIRST FLOOR FRAMING AND SLAB-ON-GRADE PLAN
 1/8"=1'-0"



- TOP OF FIRST FLOOR = DATUM ELEVATION 0'-0" • TOPOGRAPHICAL ELEVATION = 71.55'
- TOP OF SLAB AT MULTI-USER TOILET ROOMS ELEVATION: -0'-2 1/2" ABOVE DATUM. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS.
- TYPICAL SLAB-ON-GRADE CONSTRUCTION: 6" CONCRETE SLAB ON GRADE, REINFORCED WITH 6x6 - W2. #12X21 WELDED WIRE FABRIC, UNLESS OTHERWISE NOTED. FOR DETAILS, SEE 1/5201
- TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) = -0'-5 1/2" UNLESS OTHERWISE NOTED THIS [1/2"-X"-X"] FROM ELEVATION -0'-5 1/2" .
- FLOOR CONSTRUCTION: 5-1/2" COMPOSITE CONCRETE SLAB = 3-1/2" NORMAL WEIGHT CONCRETE ON 2" COMPOSITE DECK REINFORCED WITH 6x6-W1.4X1.4 WXF AS PER TYPICAL COMPOSITE BEAM FLOOR CONSTRUCTION DETAIL AND GENERAL NOTES.
- ALL FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS OTHERWISE INDICATED.
- FOR FOUNDATION CONDITION AT EXTERIOR DOORS, SEE TYPICAL DETAIL AT EXTERIOR DOORS.
- COORDINATE ALL PITS, TRENCHES, POCKETS, BRICK SHELVES, SLEEVES, PENETRATIONS AND INSERTS IN CONCRETE WALLS AND SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE GENERAL NOTES ON SHEET 5001 FOR ADDITIONAL INFORMATION.

LEGEND:

- "NOTE 'A'" INDICATES CONTINUOUS L4x4x3/8 SLAB SUPPORT, ANCHORED TO FOUNDATION WALL WITH 1/2" DIAMETER HELIX K1XK HUS-EZ ANCHORS AT 2'-0" O.C., HAVING 4-1/4" MINIMUM EMBEDMENT.
- "BP" INDICATES EXISTING BEAM BEARING POCKET. SEE DETAIL 4/5301 FOR BEARING PLATE AND ANCHOR INFORMATION.
- "AR-" INDICATES BASE PLATE SIZES AND DIMENSIONS, SEE 1/5303.
- "CA" AND "GBL" INDICATE COLUMN ABOVE AND COLUMN BELOW RESPECTIVELY, SEE COLUMN SCHEDULE ON DRAWING 5303.
- [Symbol] INDICATES TOP OF CONCRETE SLAB ELEVATION FROM TOP OF FIRST FLOOR DATUM ELEVATION, MAINTAIN FULL SLAB THICKNESS AT SLOPED AND DEPRESSED AREAS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT.
- "CJ" INDICATES APPROXIMATE LOCATION OF CONTROL/CONSTRUCTION JOINTS IN SLABS ON GRADE. FOR DETAILS, SEE TYPICAL SLAB ON GRADE DETAIL.



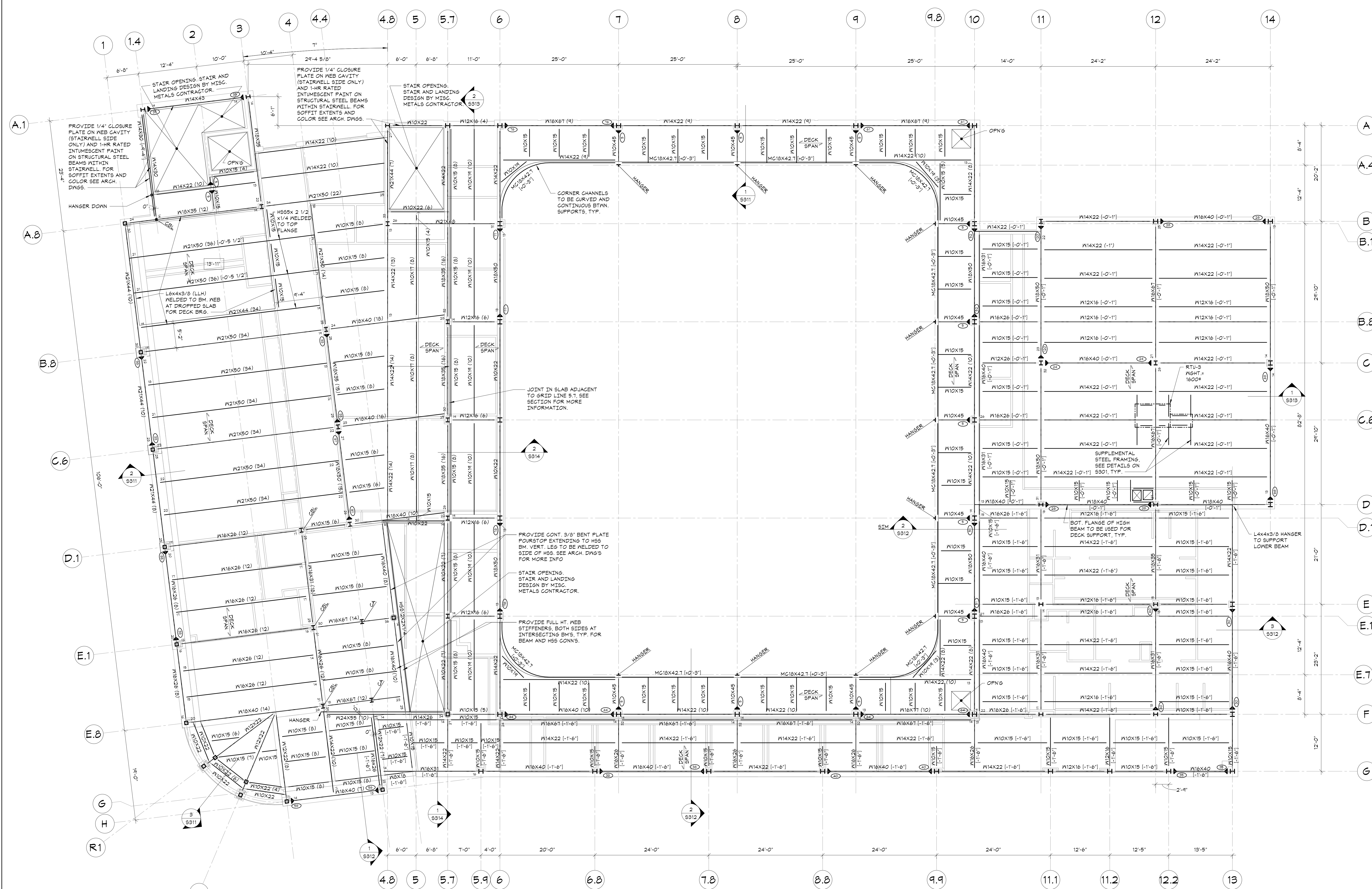
3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

No. Date Issue

Sheet Title

SECOND FLOOR & LOW ROOF FRAMING PLAN

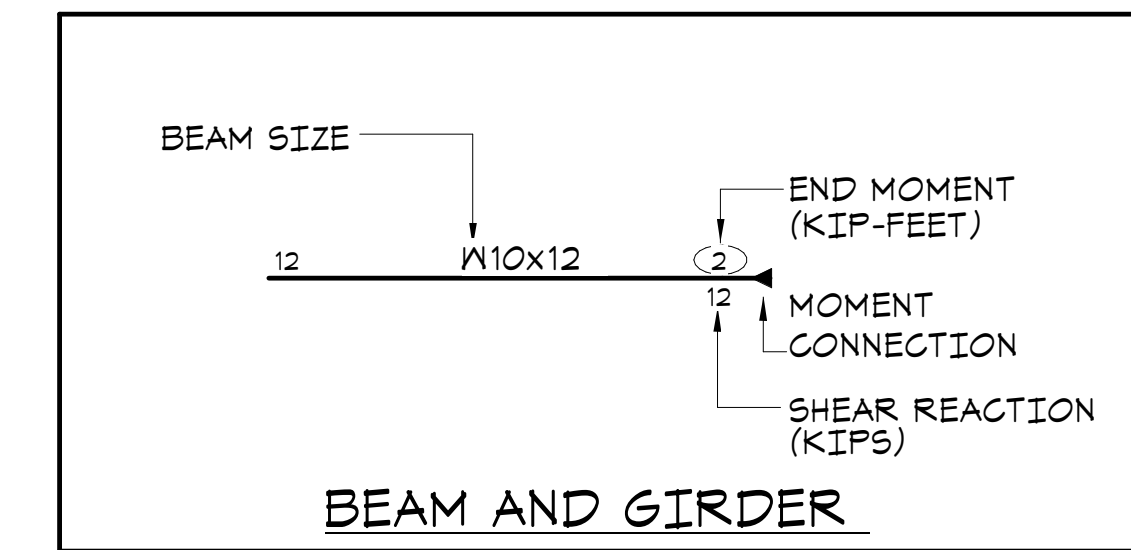
Job No.	20029.00	Date	2020-06-01
Scale	AS NOTED	Drawn / Checked	JM / EM
Sheet Number	S102		



SECOND FLOOR & LOW ROOF FRAMING PLAN

1/8"=1'-0"

- TOP OF SECOND FLOOR ELEVATION: 14'-0" ABOVE DATUM.
- TOP OF SLAB AT MULTI-USER TOILET ROOMS ELEVATION: 13'-11" ABOVE DATUM. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS.
- TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) = 13'-1 1/2" UNLESS OTHERWISE NOTED THUS (1'-X"-X'-X") FROM ELEVATION 14'-0" (FLOOR ELEVATION).
- FLOOR CONSTRUCTION AT SECOND FLOOR AND TERRACE: 4-1/2" COMPOSITE CONCRETE SLAB + 2-1/2" NORMAL WEIGHT CONCRETE ON 2" COMPOSITE DECK REINFORCED WITH 6x6-W14X14 WNF AS PER TYPICAL COMPOSITE BEAM FLOOR CONSTRUCTION DETAIL AND GENERAL NOTES.
- ROOF DECK CONSTRUCTION: SEE GENERAL NOTES ON SHEET S001.
- ALL FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS OTHERWISE INDICATED.
- COORDINATE SIZE AND LOCATION OF ALL FLOOR PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL FLOOR PENETRATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION OF PENETRATION FRAMING ELEMENTS. PROVIDE FRAMING AS INDICATED IN TYPICAL ROOF/FLOOR OPENING DETAIL. DO NOT SCALE OPENINGS.
- "CA" AND "CB" INDICATE COLUMN ABOVE AND COLUMN BELOW RESPECTIVELY. SEE COLUMN SCHEDULE ON DRAWING S003.
- SEE GENERAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.



Key Plan

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Professional Seal

3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

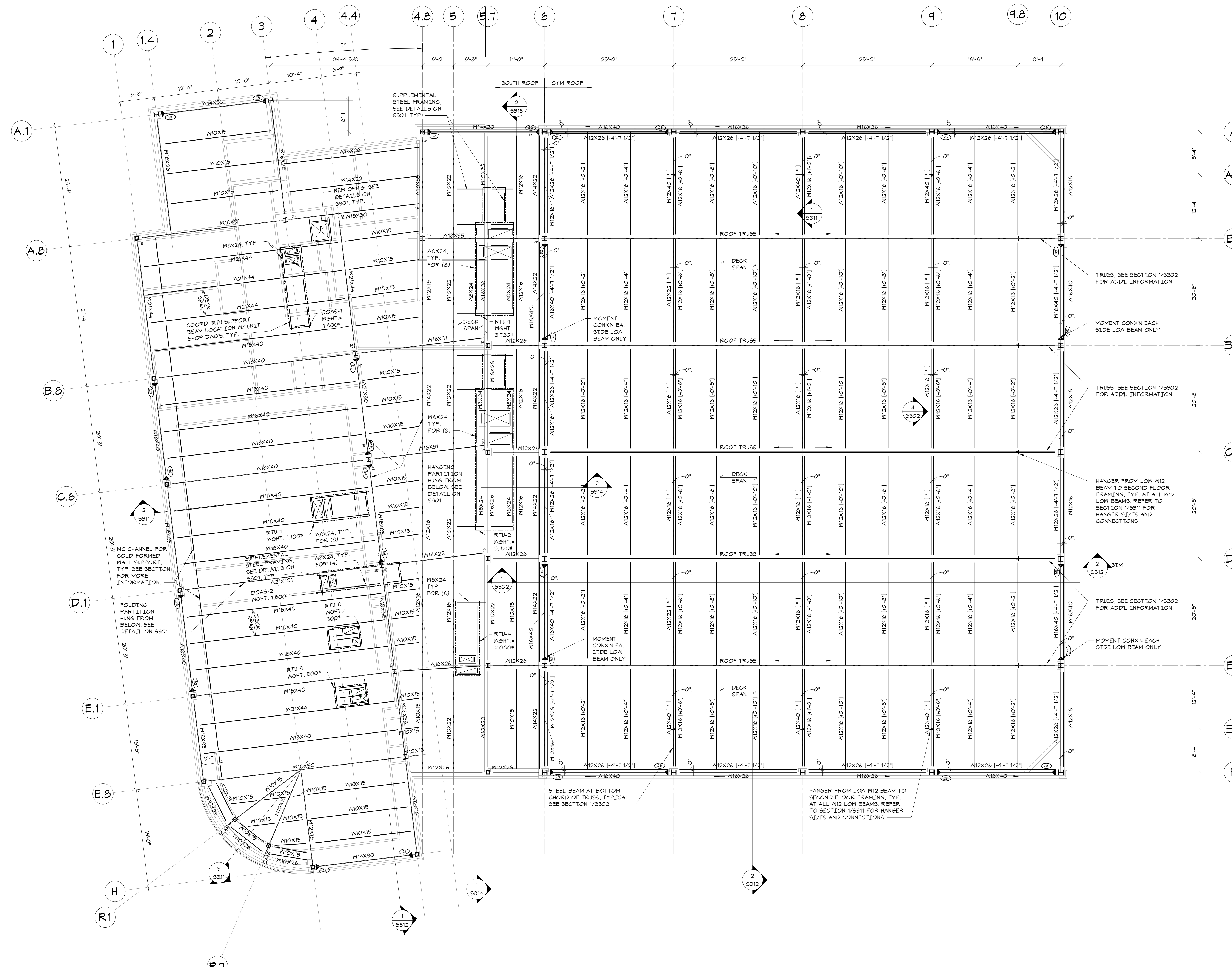
No. Date Issue

ROOF FRAMING PLAN

Job No.	202029.00	Date	2020-06-01
Scale	AS NOTED	Drawn / Checked	JM / EM

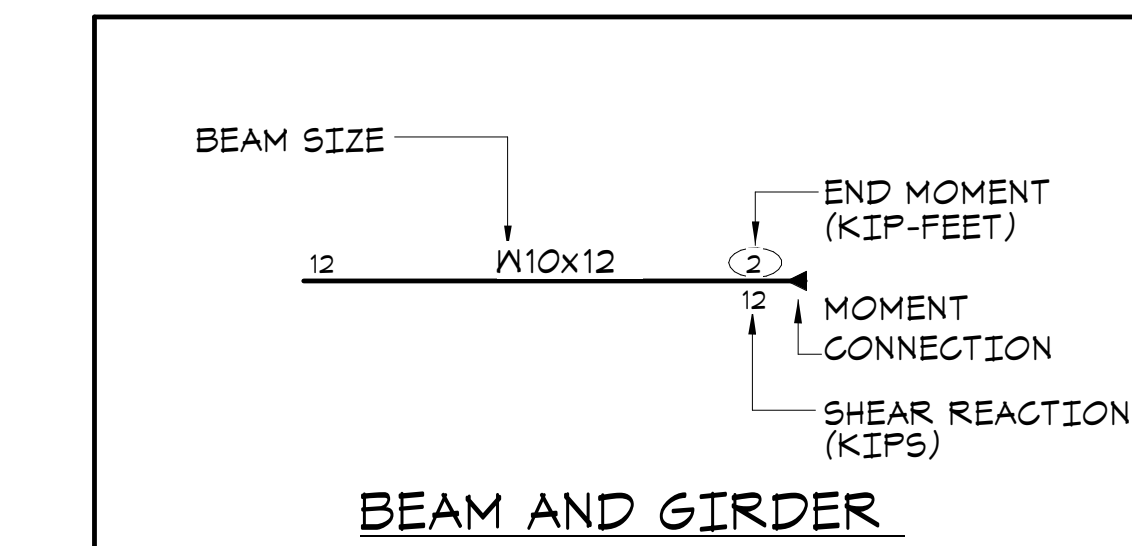
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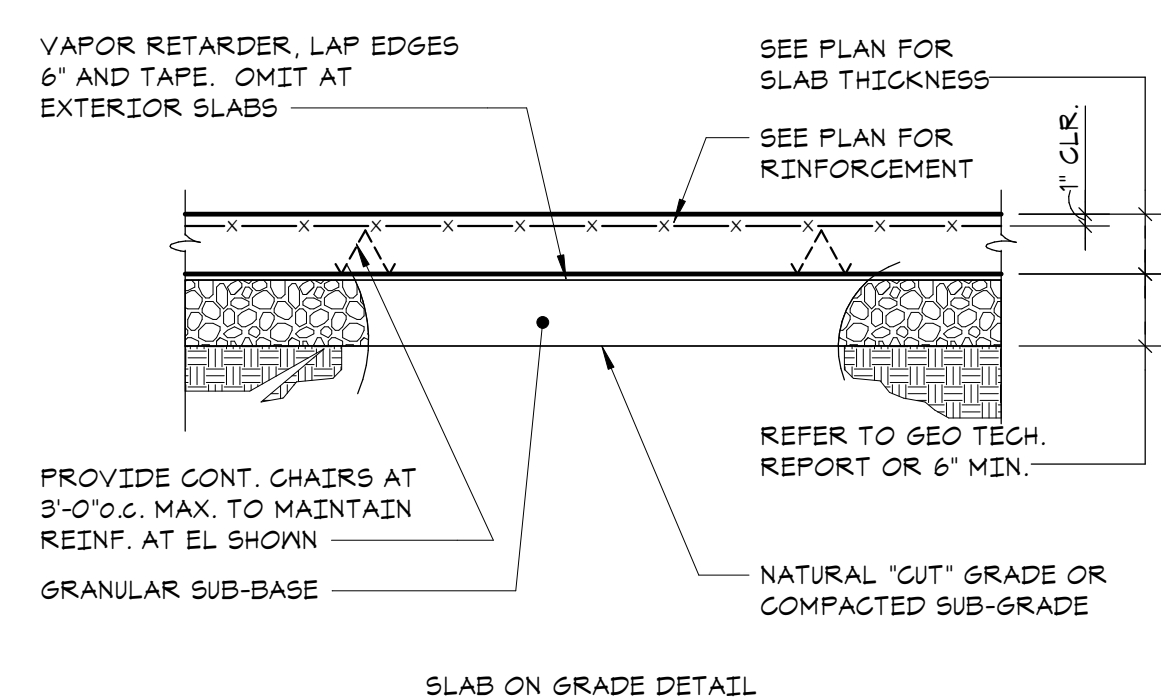
S103



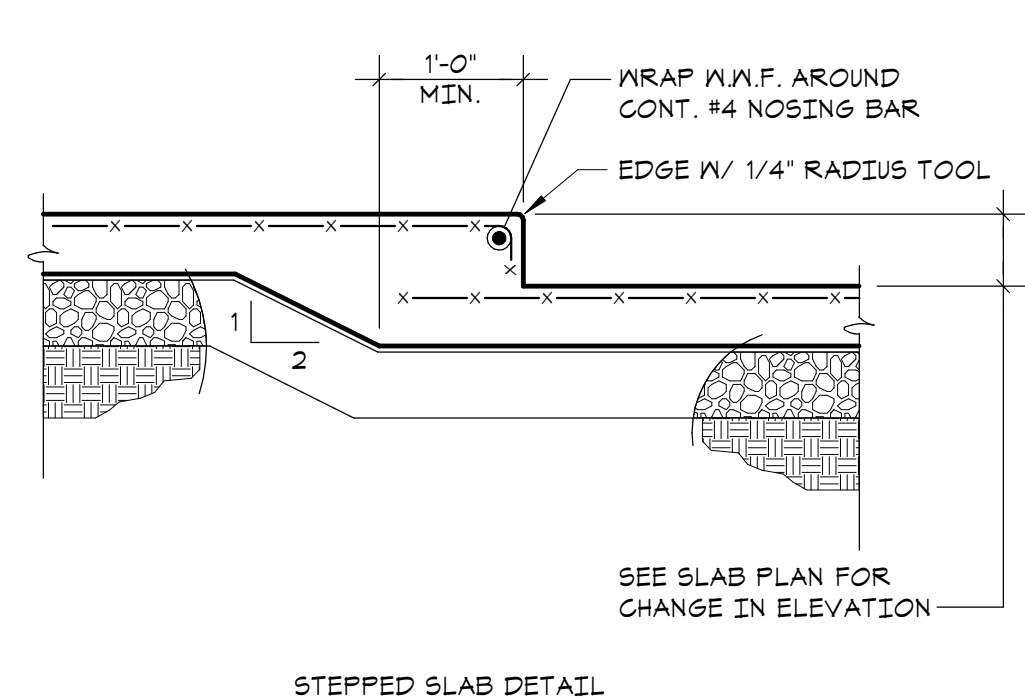
ROOF FRAMING PLAN
1/8"=1'-0"

- GYMNASIUM ROOF TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) AT LOW POINT = 31'-2 1/2" UNLESS OTHERWISE NOTED THIS [v-x-xx'] FROM ELEVATION 31'-2 1/2".
- FOR STEEL ELEVATION NOTED THIS [*] ALIGN BEAM BOTTOM FLANGE WITH BOTTOM FLANGE OF TRUSS BOTTOM CHORD.
- SOUTH ROOF TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) = 26'-11" UNLESS OTHERWISE NOTED THIS [v-x-xx'] FROM ELEVATION 26'-11".
- ROOF DECK CONSTRUCTION: SEE GENERAL NOTES ON SHEET S001.
- ALL FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS OTHERWISE INDICATED.
- COORDINATE SIZE AND LOCATION OF ALL ROOF PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL ROOF PENETRATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION OF PENETRATION FRAMING ELEMENTS. PROVIDE FRAMING AS INDICATED IN "TYPICAL ROOF/FLOOR OPENING DETAIL". DO NOT SCALE OPENINGS.
- SEE GENERAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.

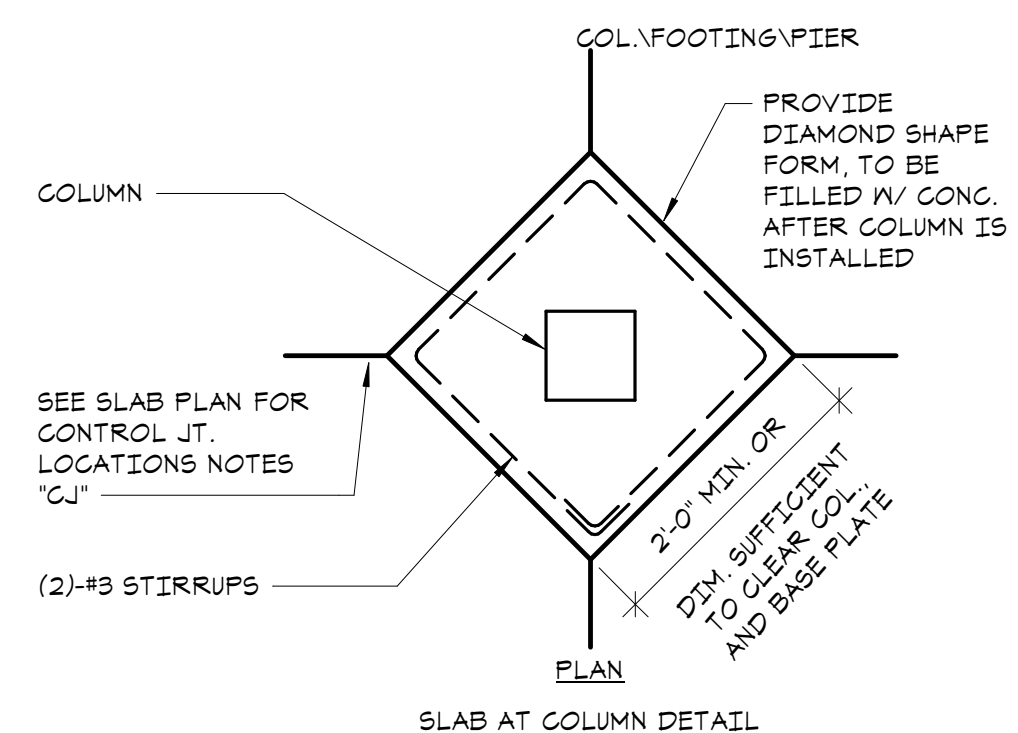




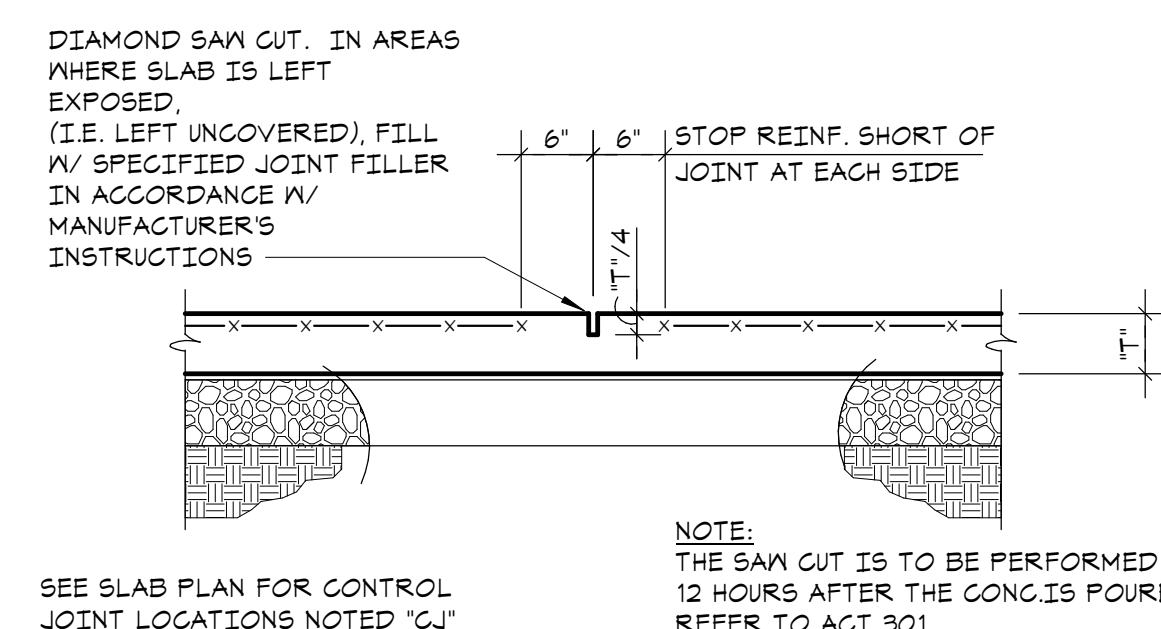
SLAB ON GRADE DETAIL



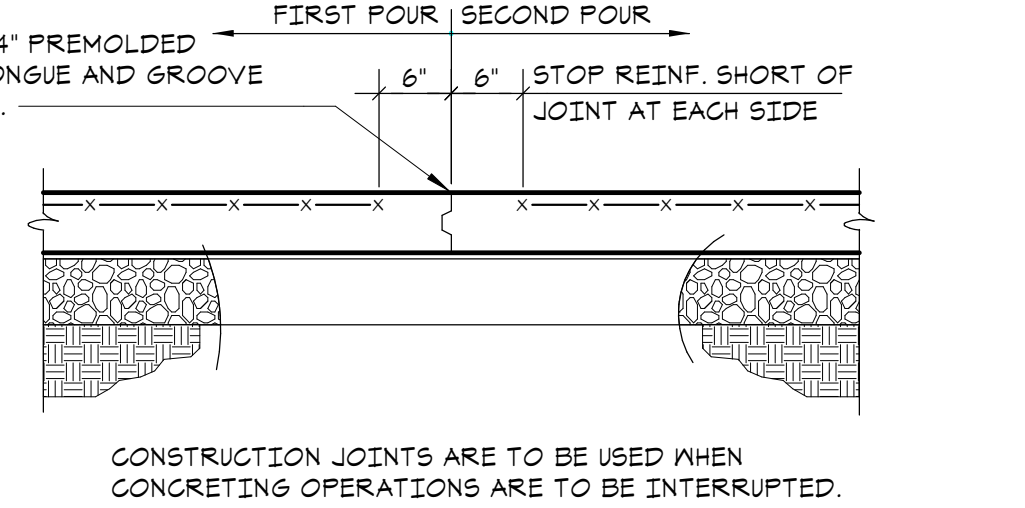
STEPPED SLAB DETAIL



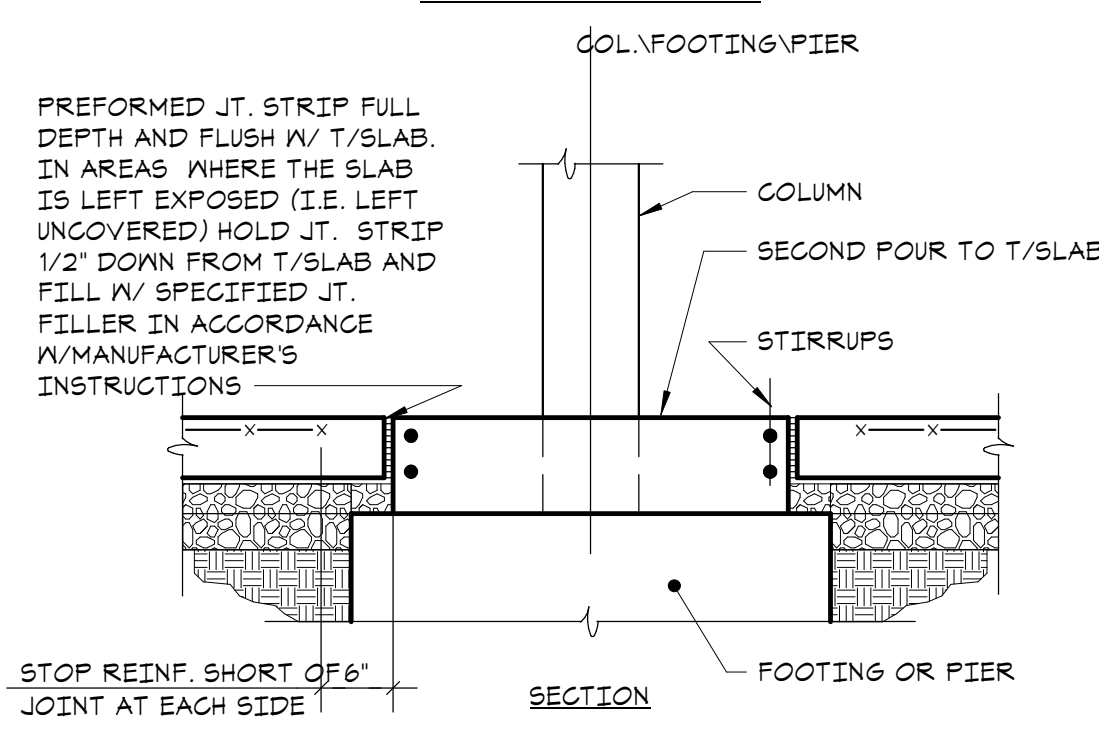
SLAB AT COLUMN DETAIL



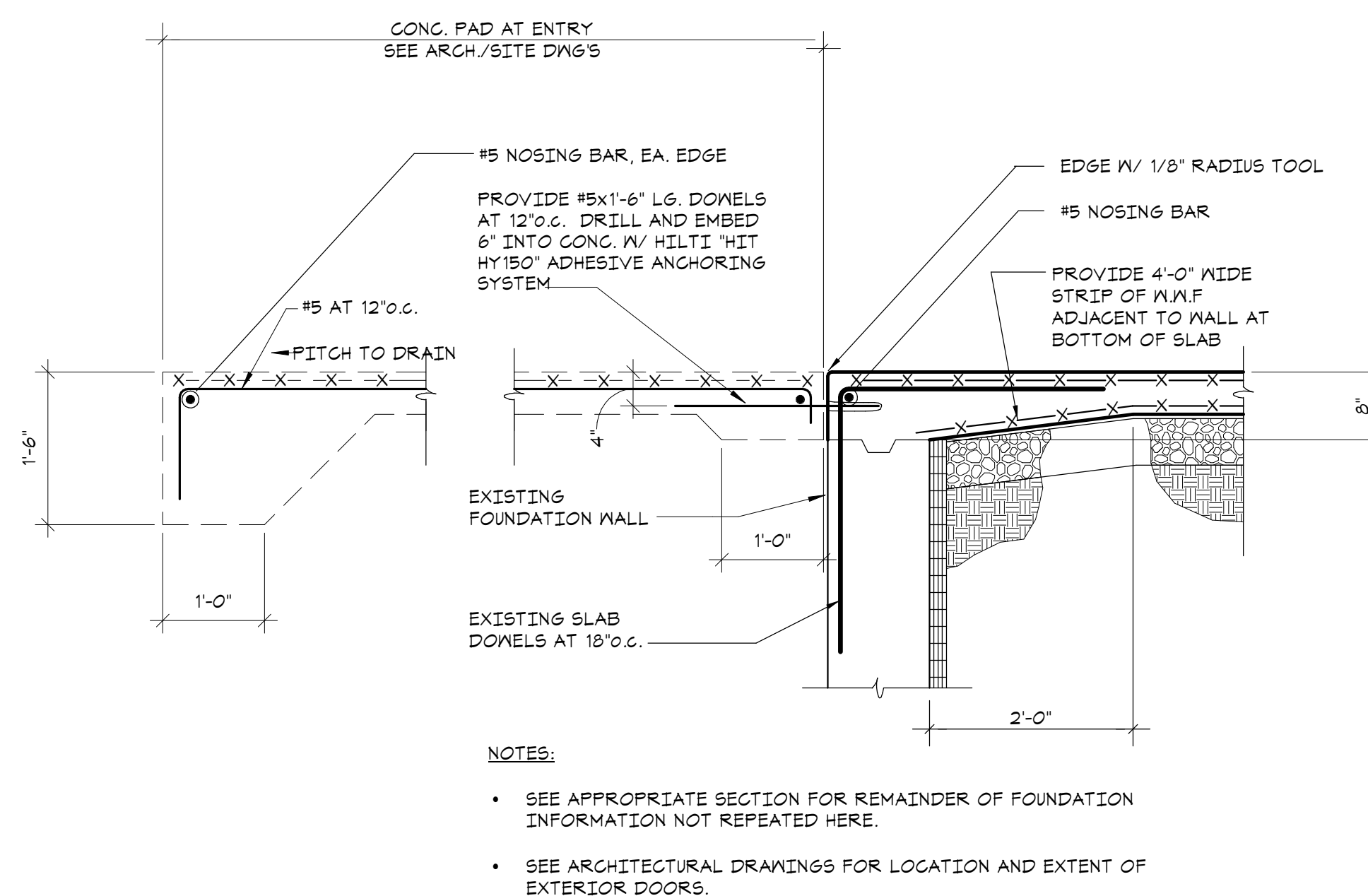
CONTROL JOINT DETAIL



SLAB ON GRADE CONSTRUCTION JOINT DETAIL



SLAB AT COLUMN DETAIL

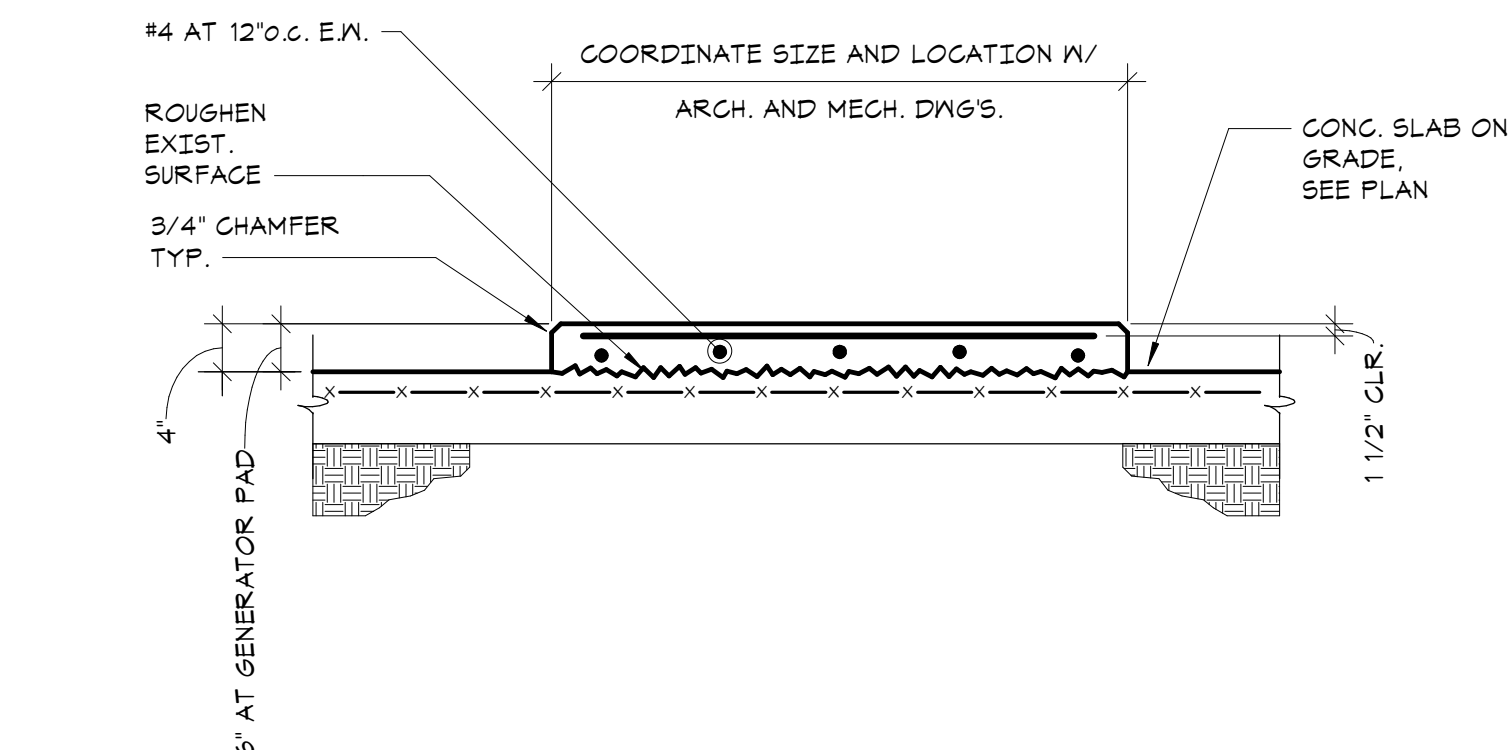


2 TYPICAL DETAIL AT EXTERIOR DOORS

1 TYPICAL SLAB ON GRADE DETAIL

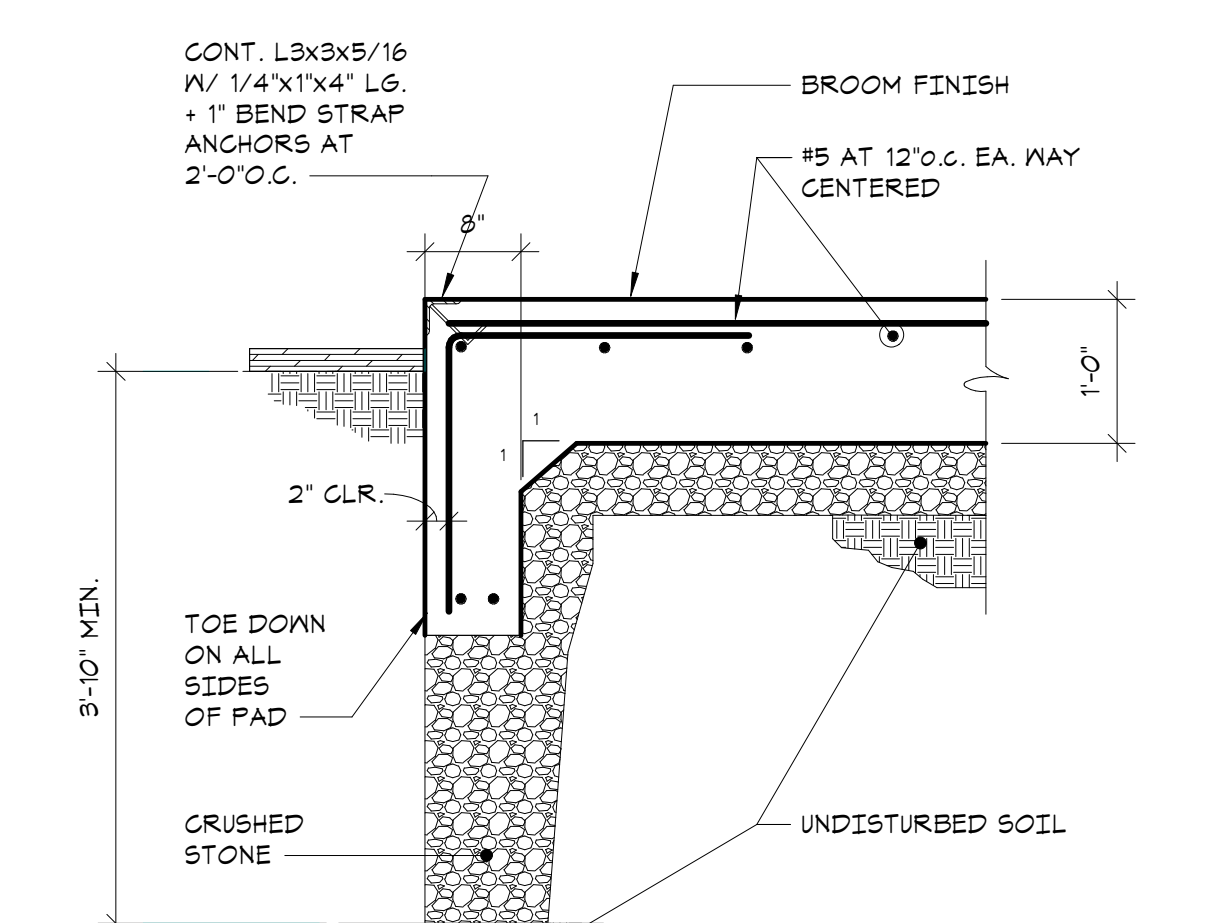
NO SCALE

NO SCALE



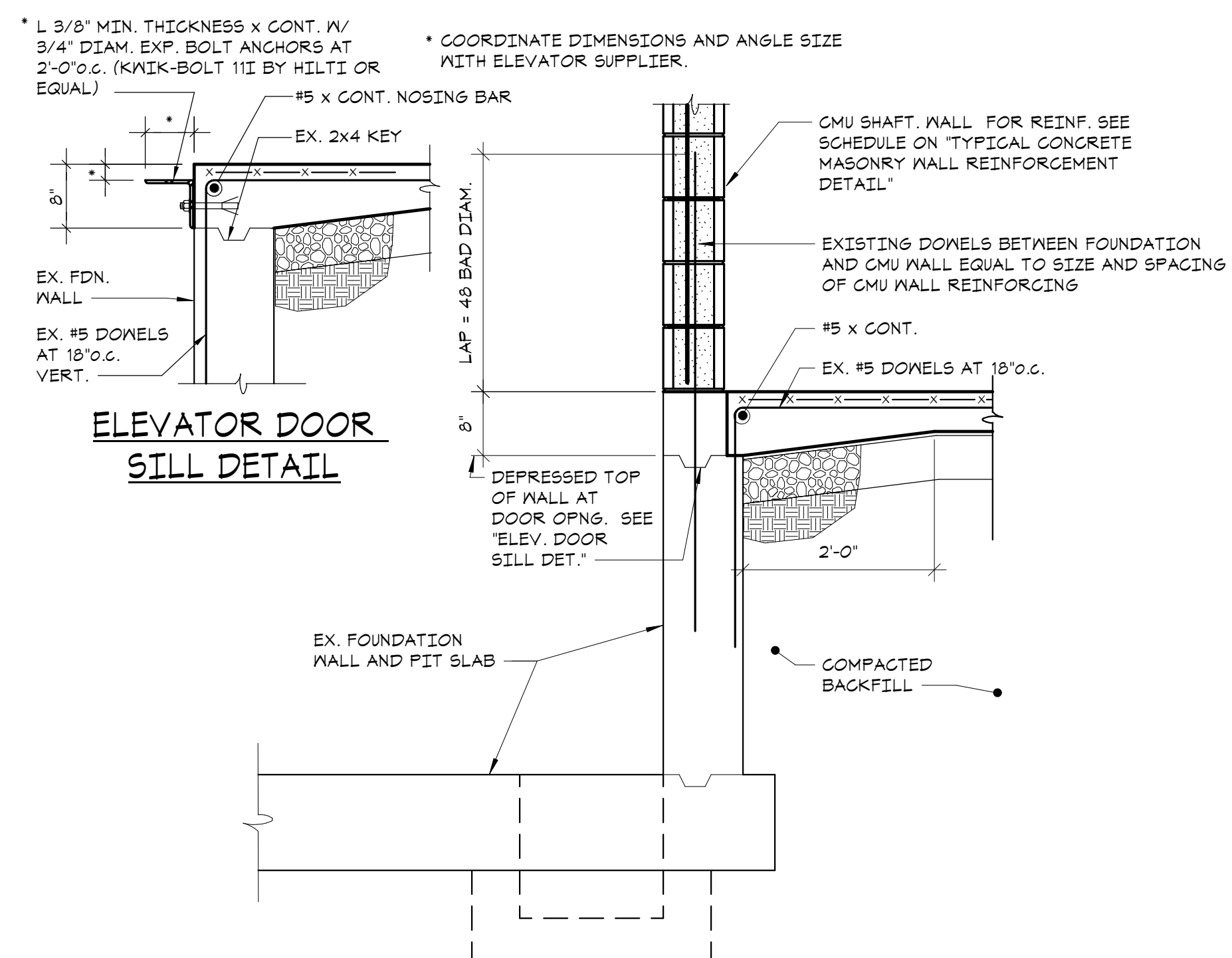
3 HOUSEKEEPING PAD DETAIL

NO SCALE



4 EQUIPMENT PAD DETAIL

NO SCALE



5 TYPICAL ELEVATOR PIT DETAIL

NO SCALE

Key Plan

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Professional Seal

3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

No. Date Issue

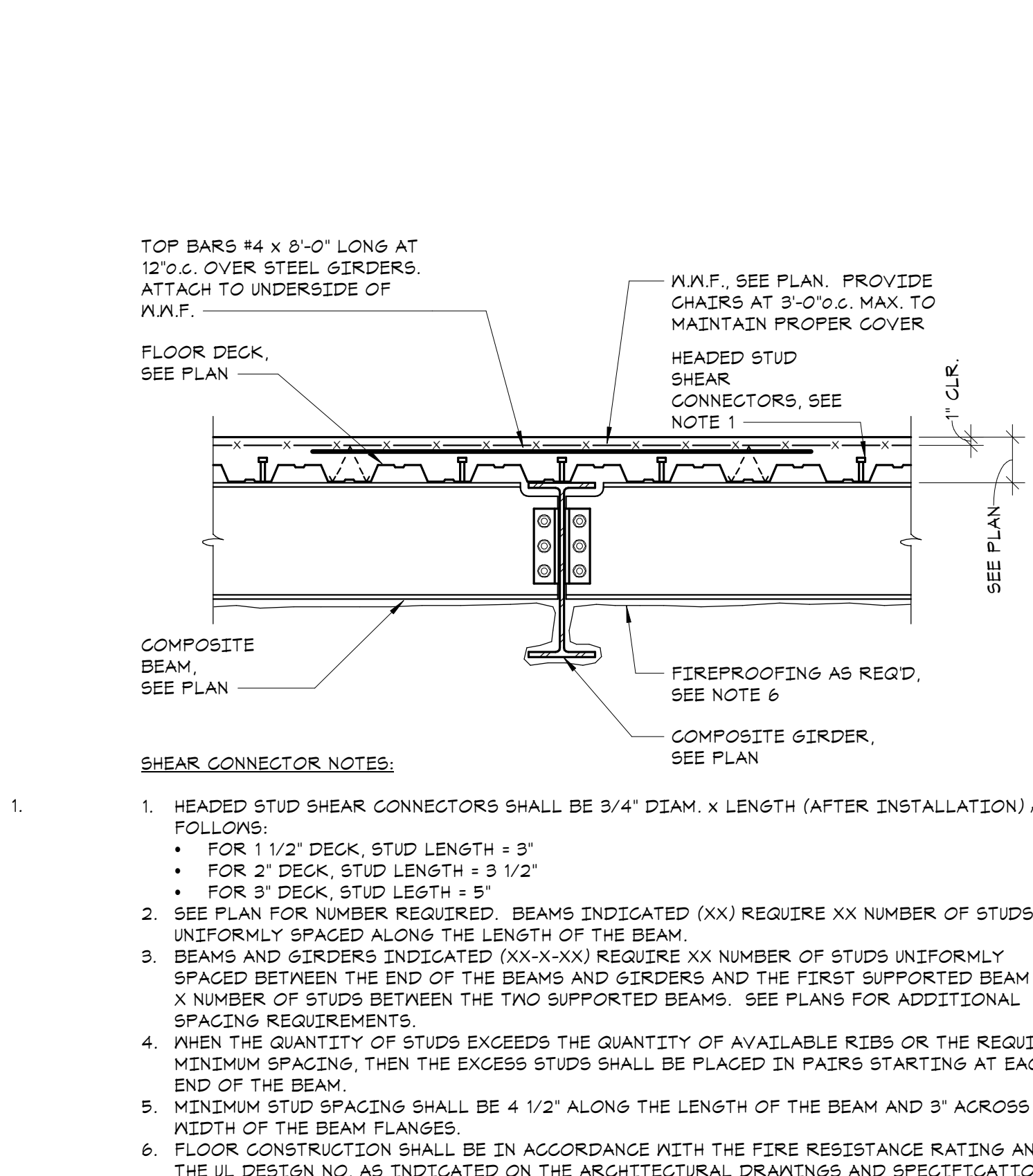
Sheet Title

SLAB ON GRADE DETAILS

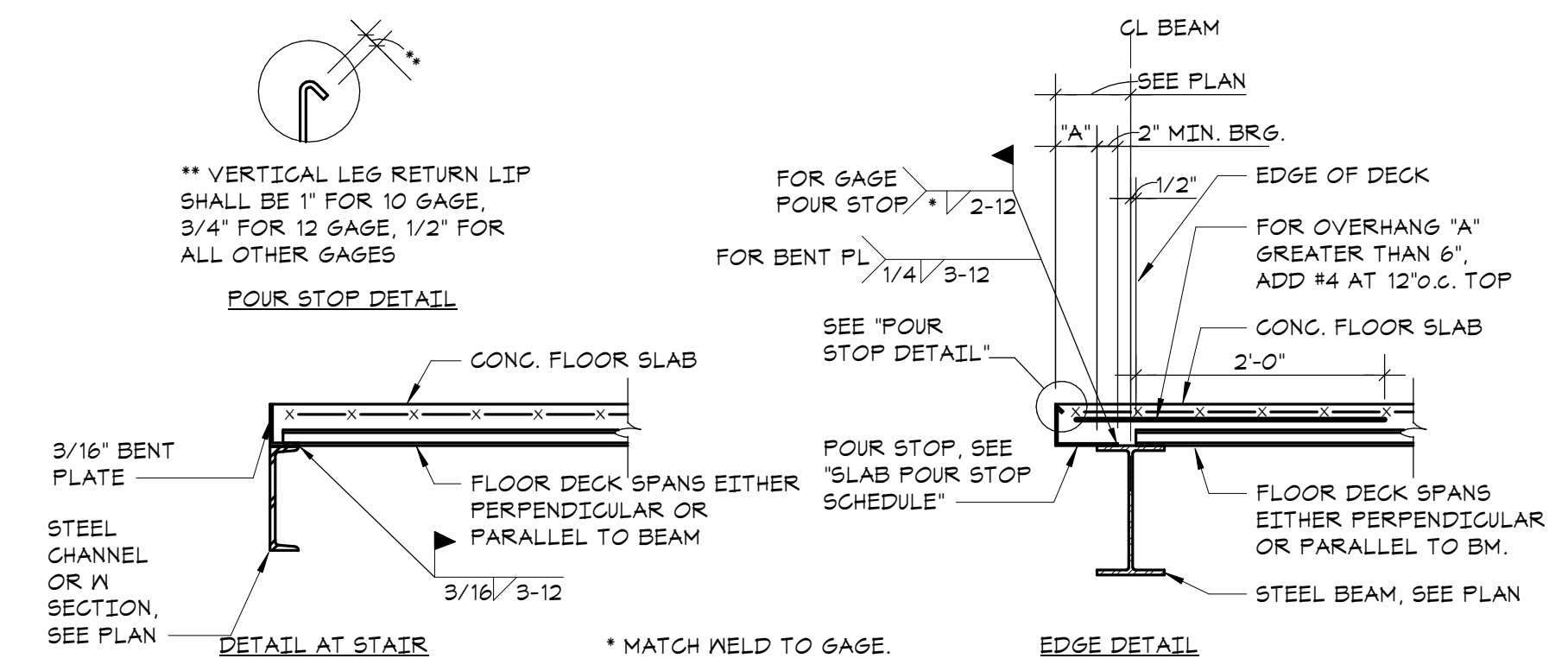
Job No.	20029.00	Date	12/19/23
Scale	AS NOTED	Drawn / Checked	Author Checker

Sheet Number

S201



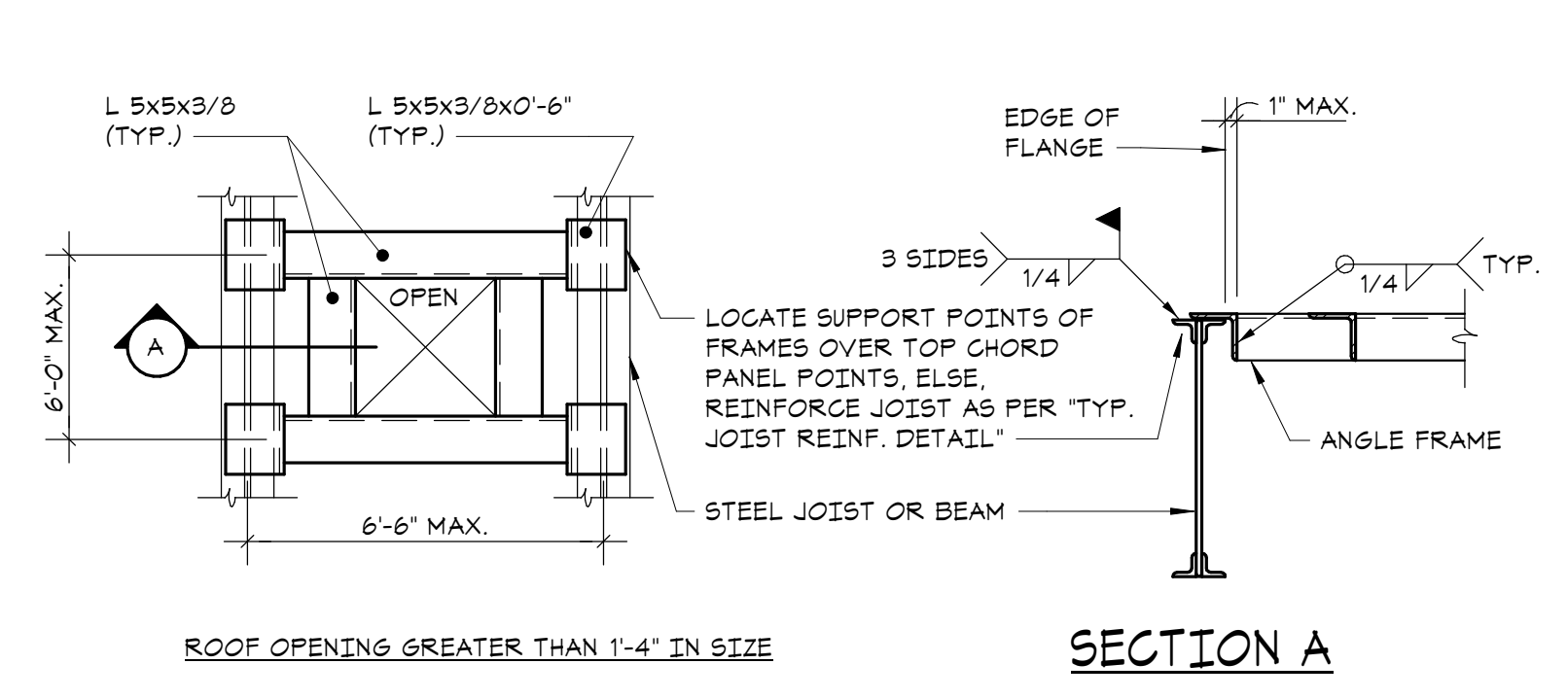
1. TYPICAL COMPOSITE BEAM FLOOR CONSTRUCTION DETAIL
NO SCALE



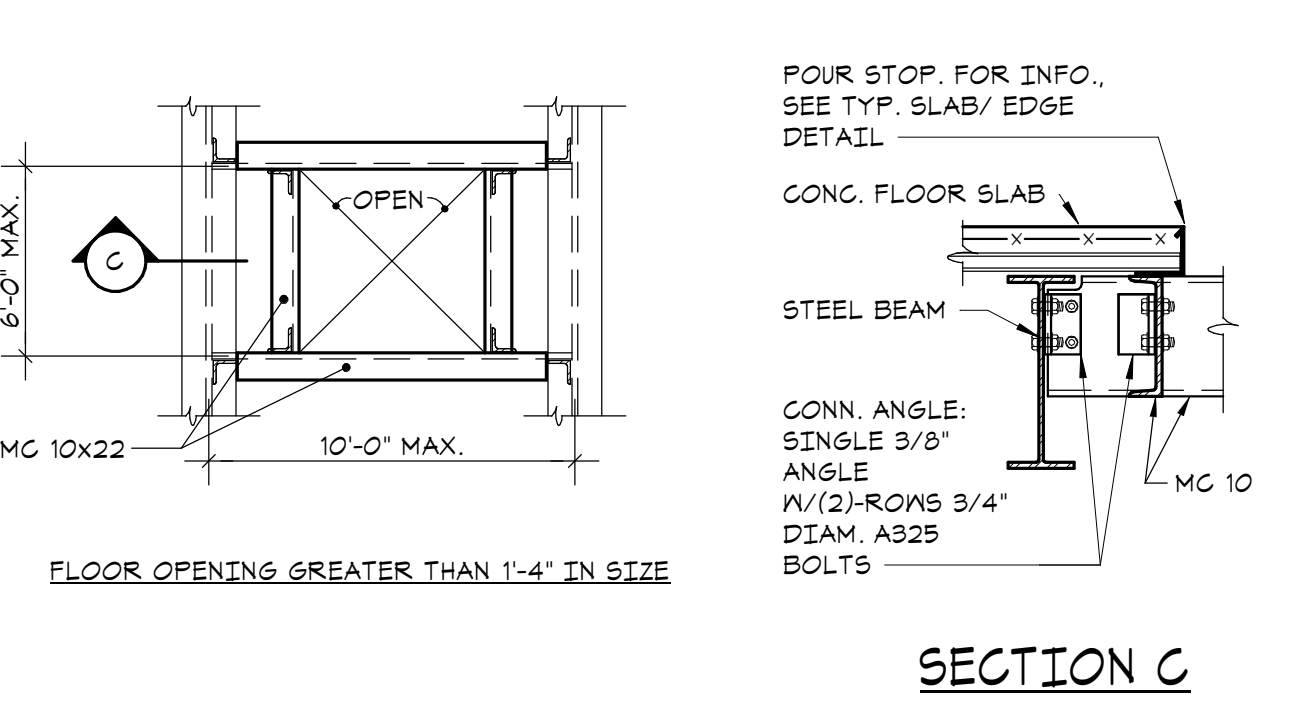
SLAB THICKNESS	'A' DIMENSION (OVERHANG)	POUR STOP
2 1/2" TO 5 1/2"	0" UP TO 2"	18 GA.
	GREATER THAN 2", UP TO 4"	16 GA.
	GREATER THAN 4", UP TO 6"	14 GA.
	GREATER THAN 6", UP TO 8"	12 GA.
	GREATER THAN 8", UP TO 11"	10 GA.
5 3/4" TO 6 1/2"	0" UP TO 2"	16 GA.
	GREATER THAN 2", UP TO 4"	14 GA.
	GREATER THAN 4", UP TO 6"	12 GA.
	GREATER THAN 6", UP TO 10"	10 GA.
	GREATER THAN 10", UP TO 1'-4"	5/16" BENT PLATE

NOTE: POUR STOPS INDICATED IN THIS DETAIL ARE TO BE USED UNLESS OTHERWISE DETAILED.

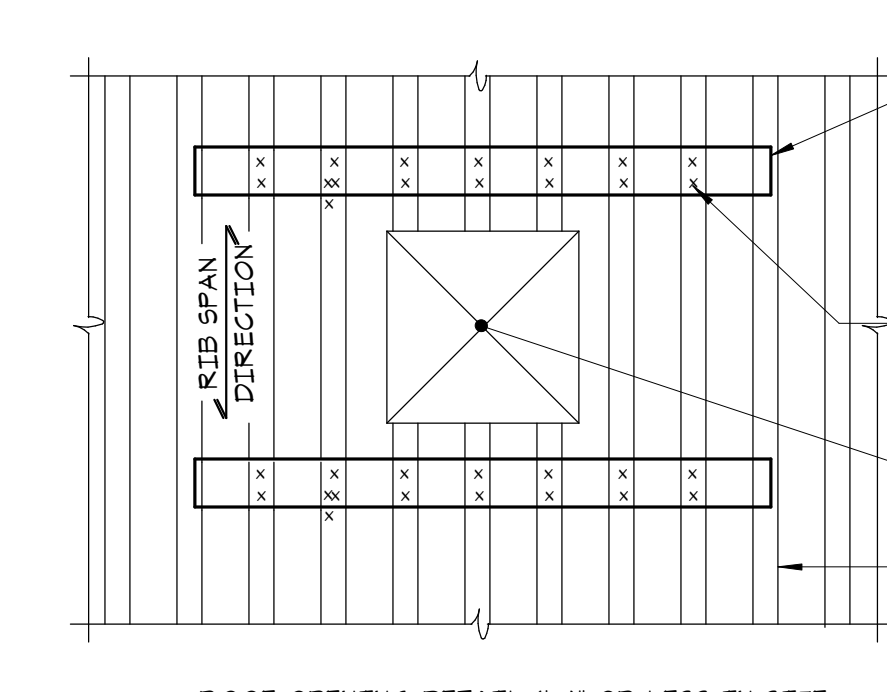
2. TYPICAL SLAB EDGE DETAILS
NO SCALE



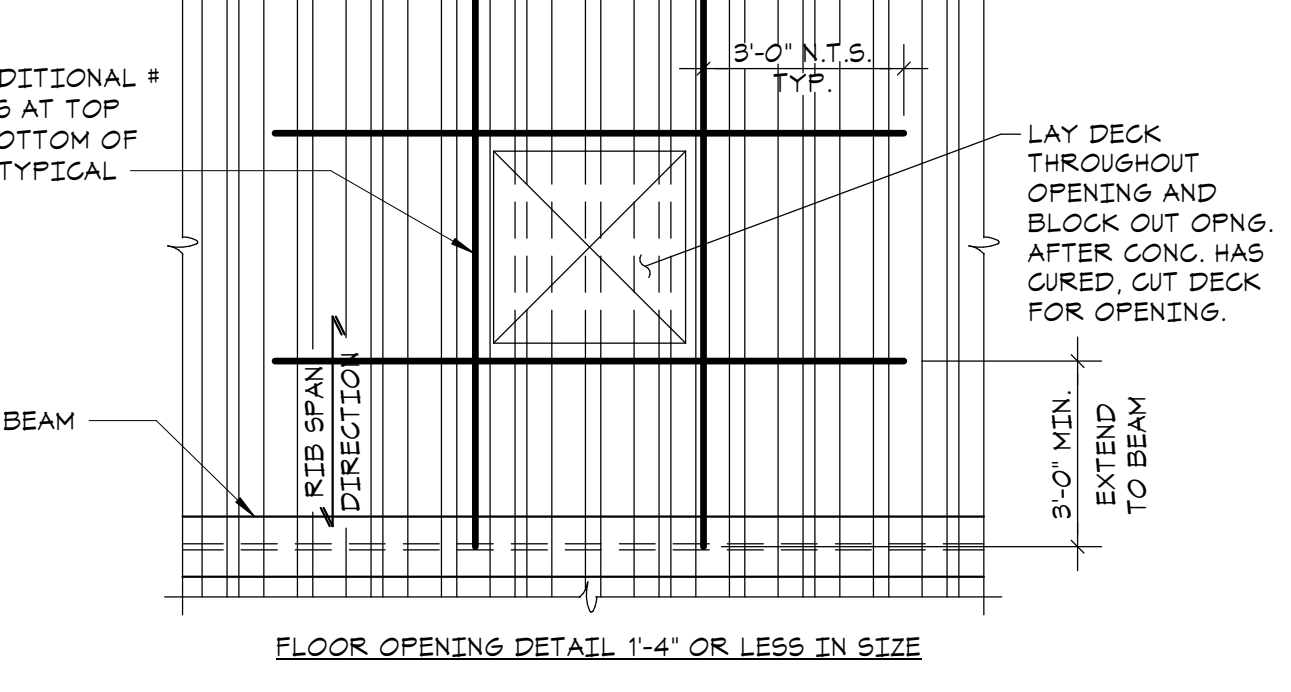
3. TYPICAL ROOF/FLOOR OPENING DETAIL
NO SCALE



SECTION C



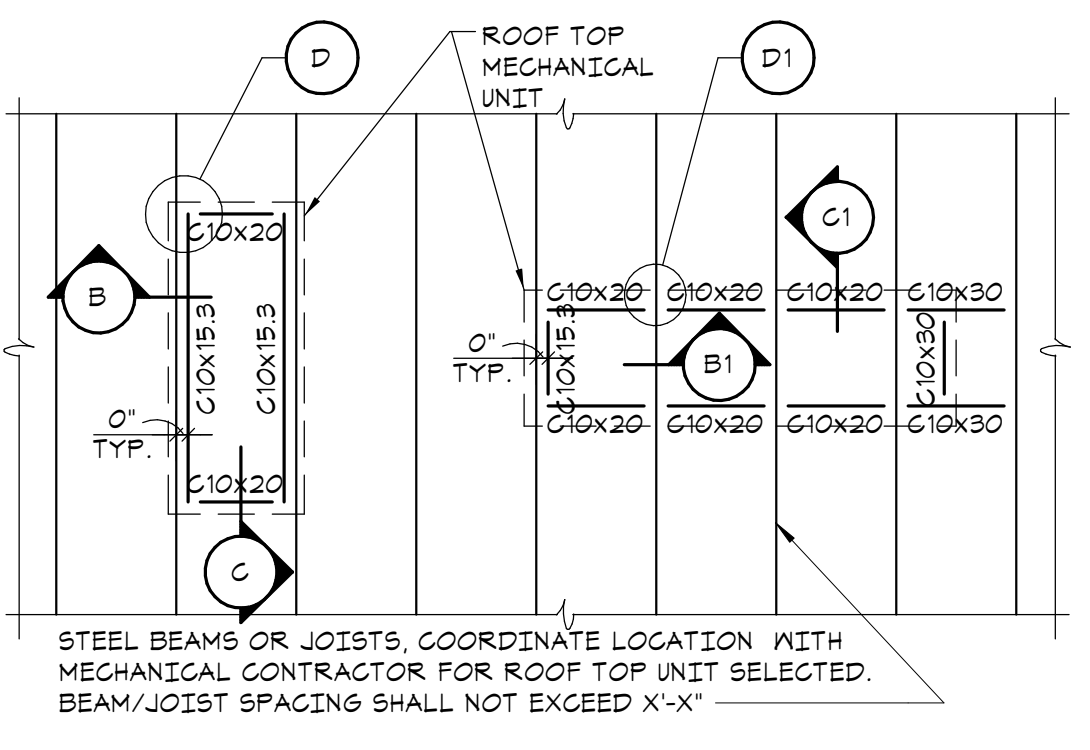
SECTION B



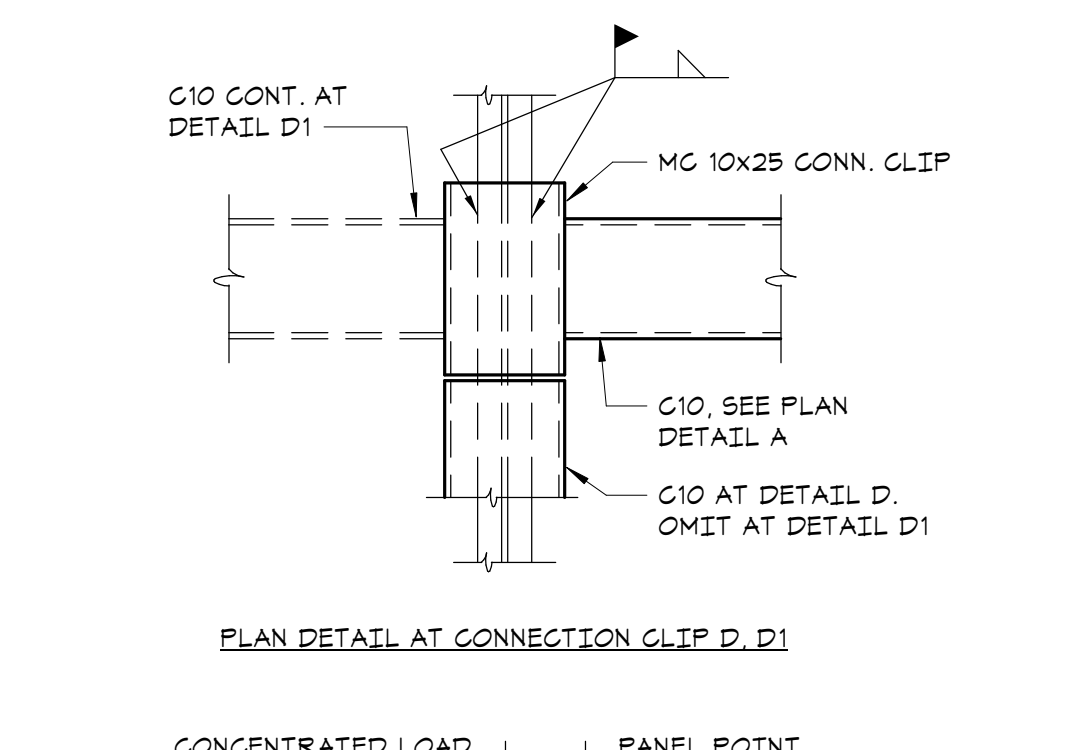
SECTION D

NOTE: POUR STOPS INDICATED IN THIS DETAIL ARE TO BE USED UNLESS OTHERWISE DETAILED.

3. TYPICAL ROOF/FLOOR OPENING DETAIL
NO SCALE



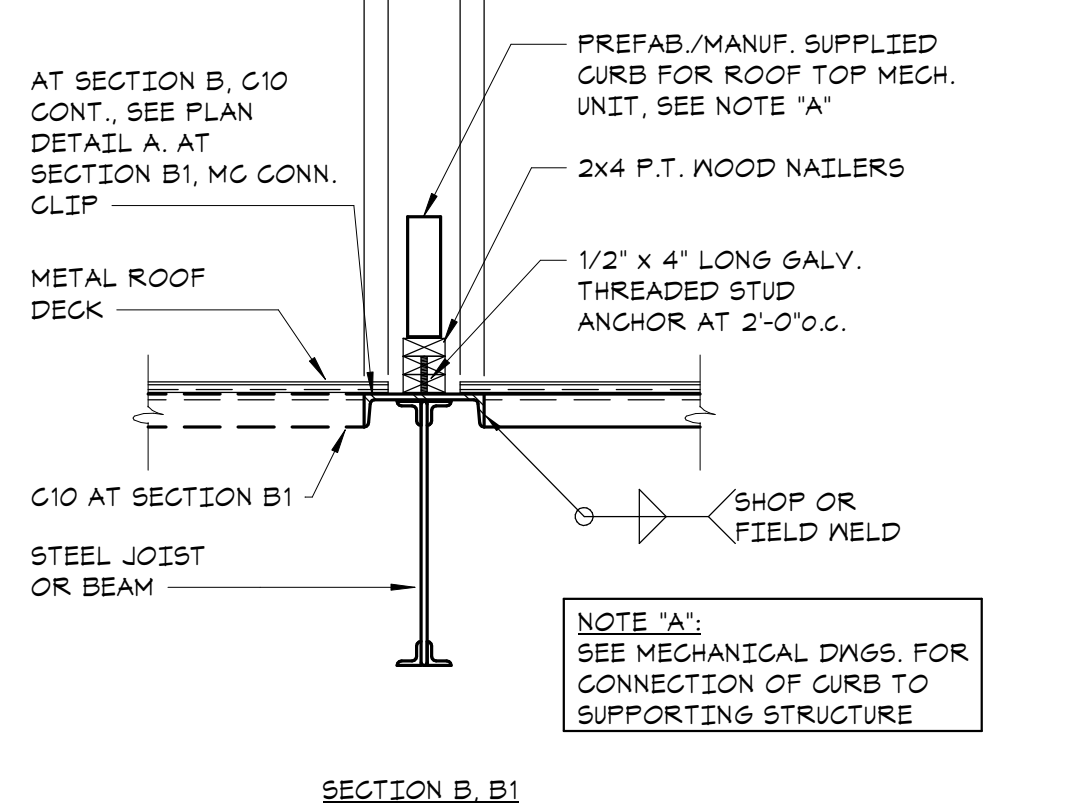
4. TYPICAL ROOF TOP UNIT CURB DETAIL
NO SCALE



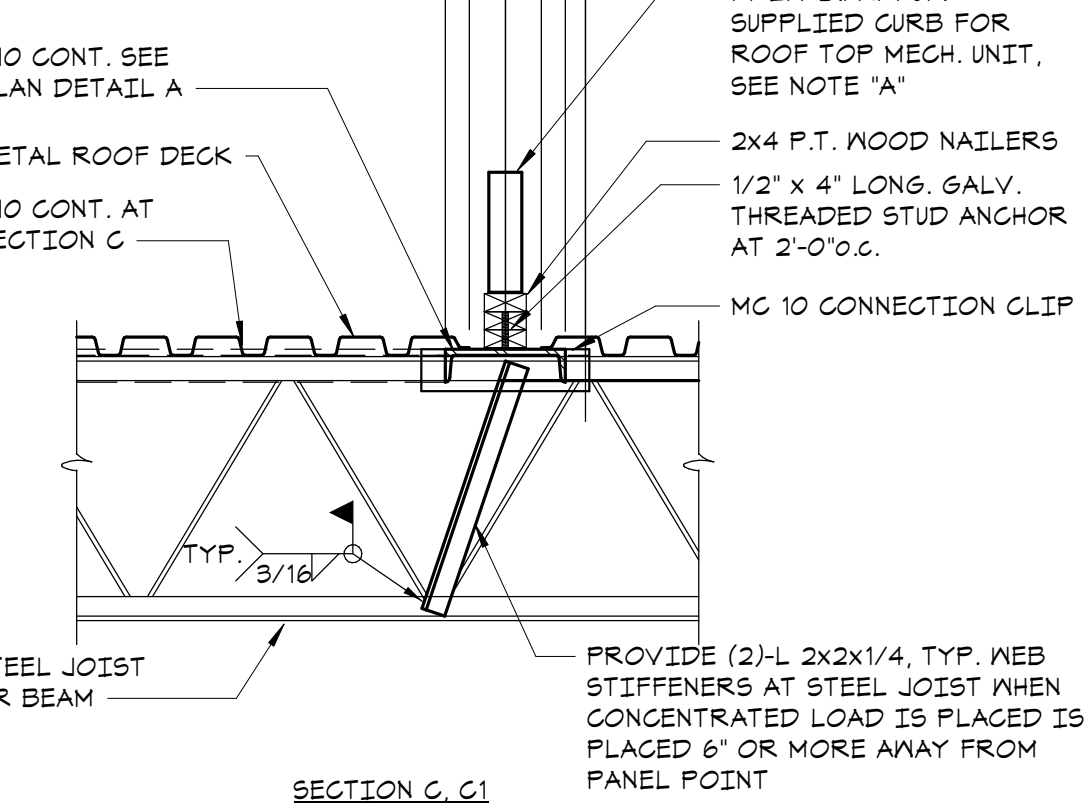
SECTION B



SECTION C



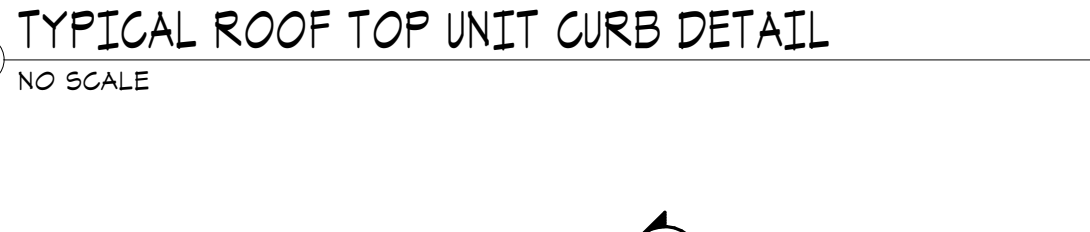
SECTION D



SECTION E



SECTION F



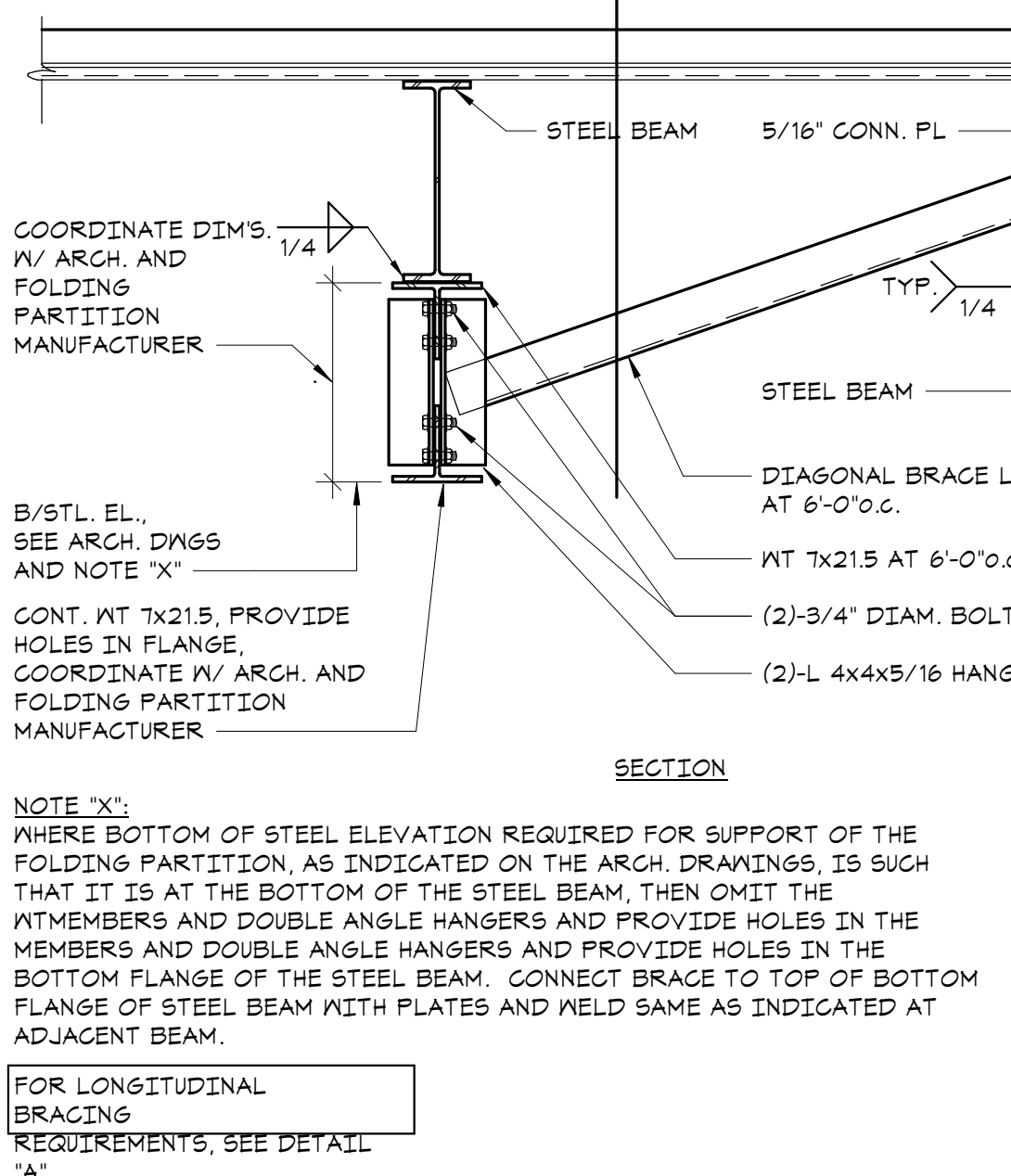
SECTION G



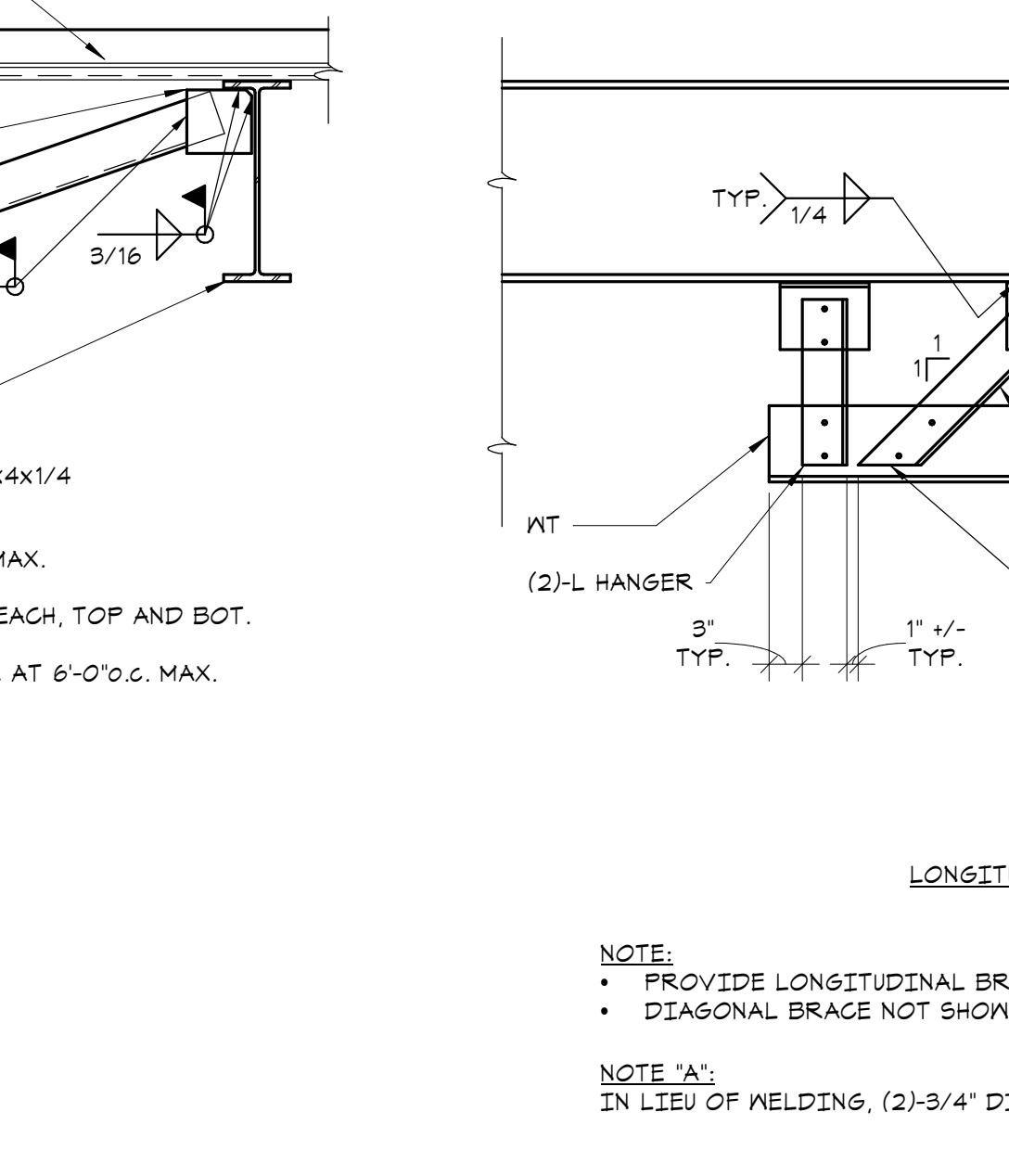
SECTION H



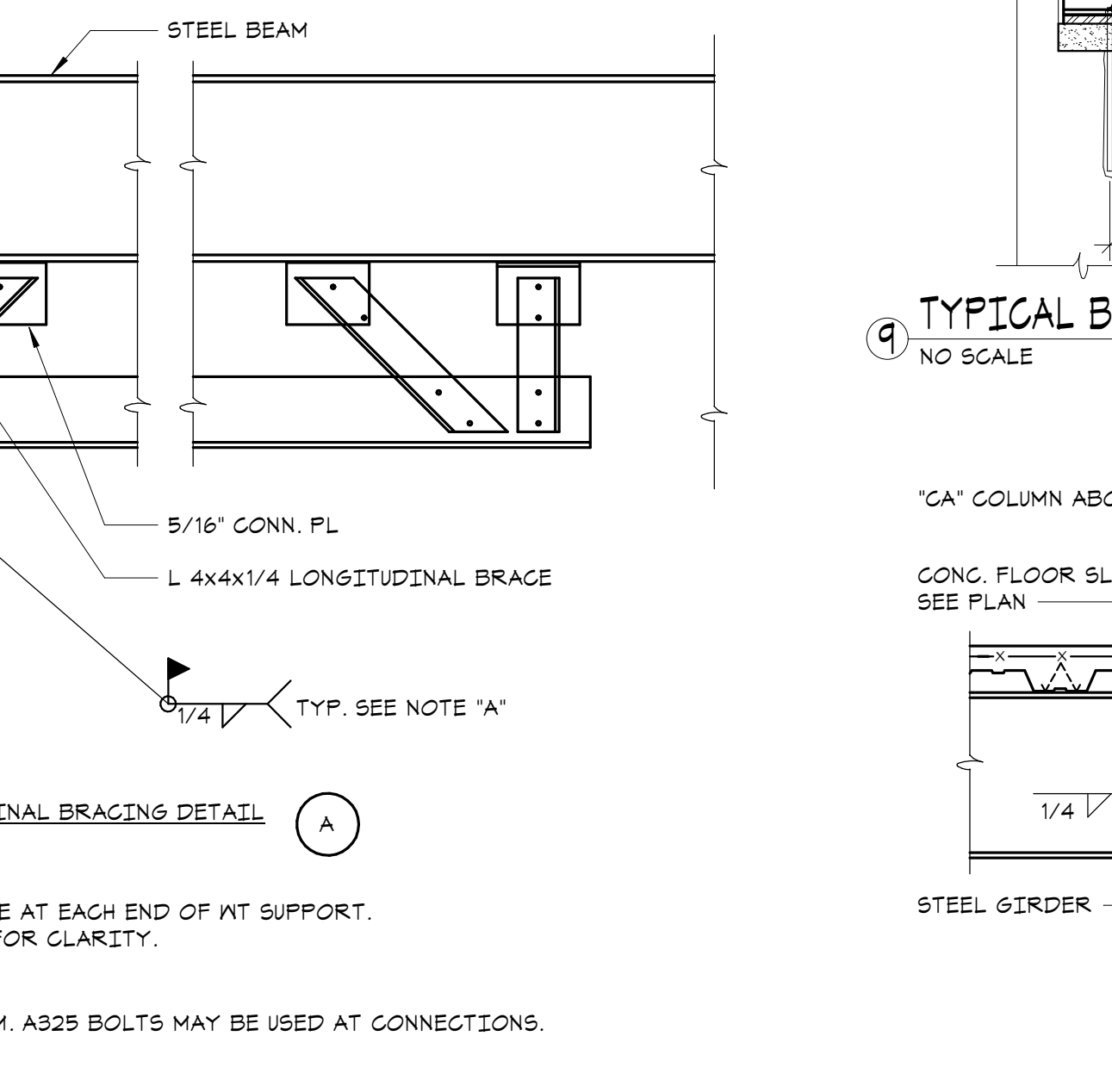
SECTION I



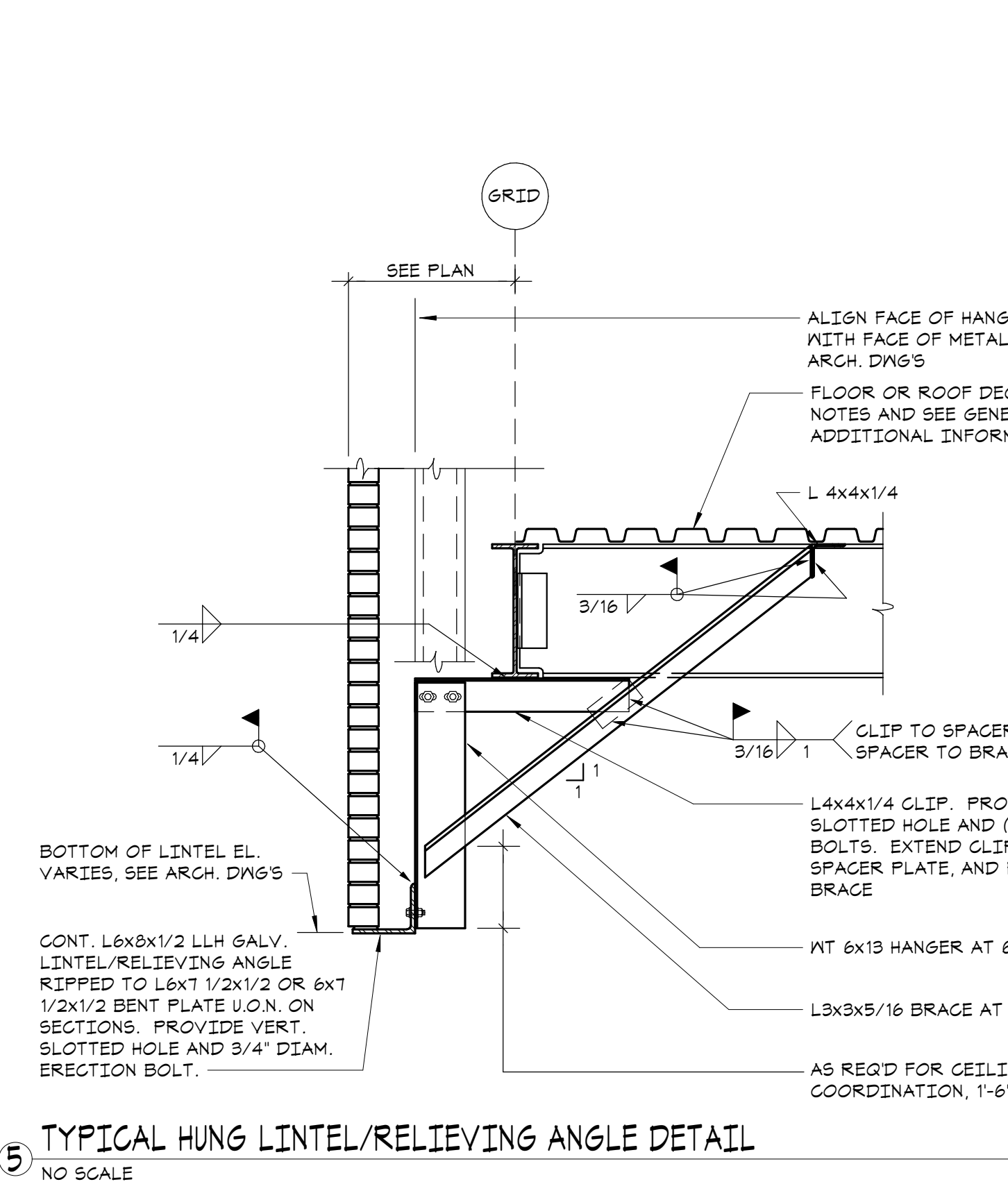
5. FOLDING PARTITION SUPPORT DETAIL
NO SCALE



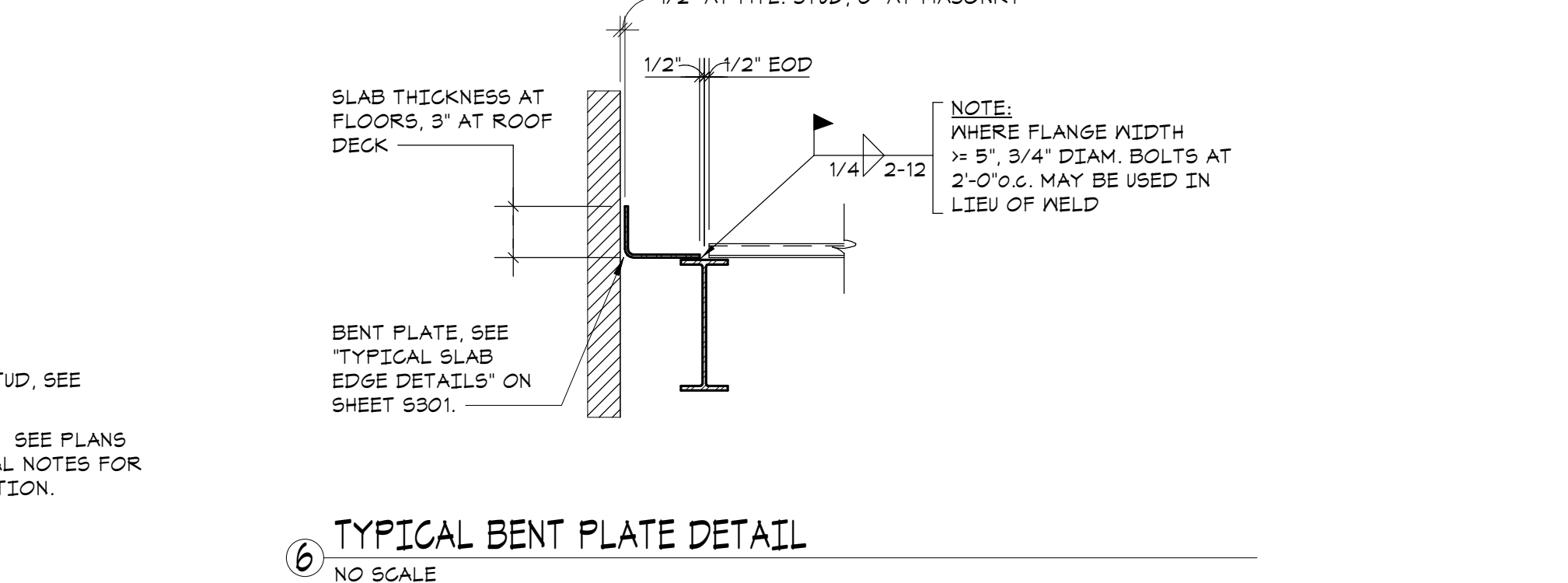
SECTION A



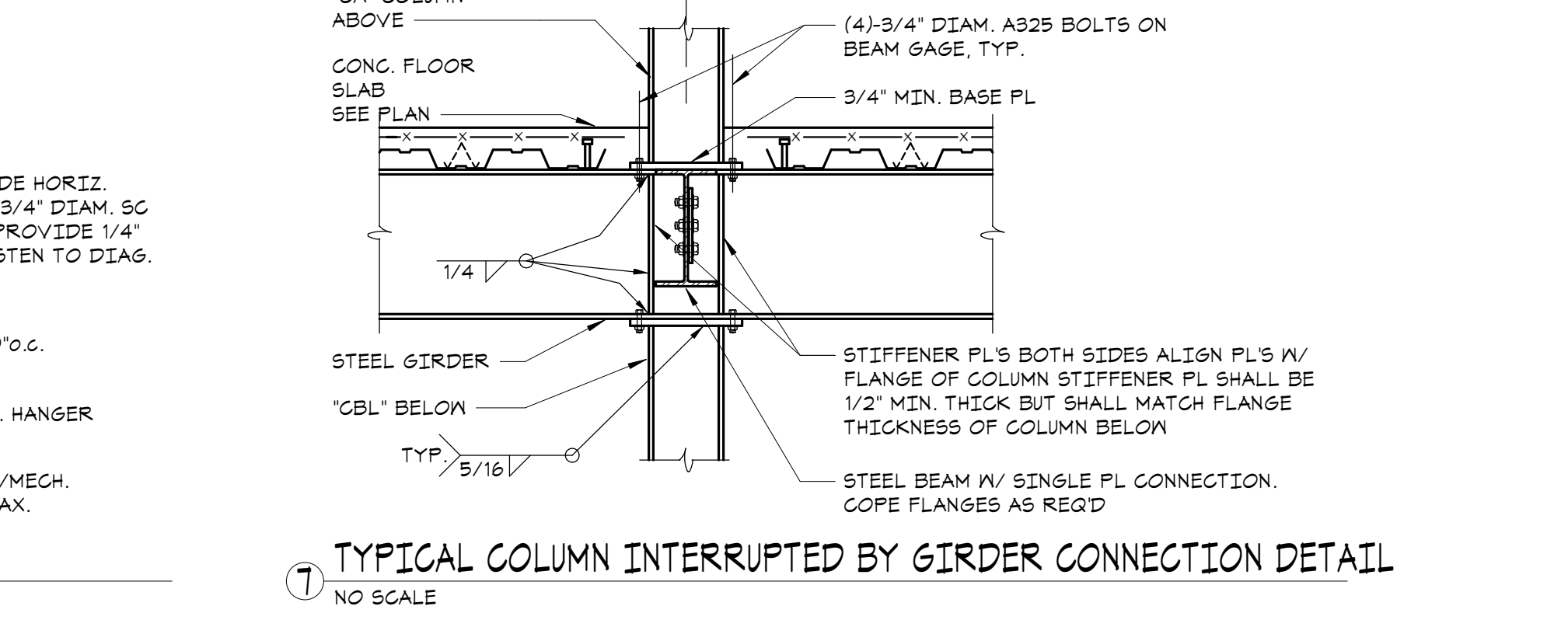
SECTION B



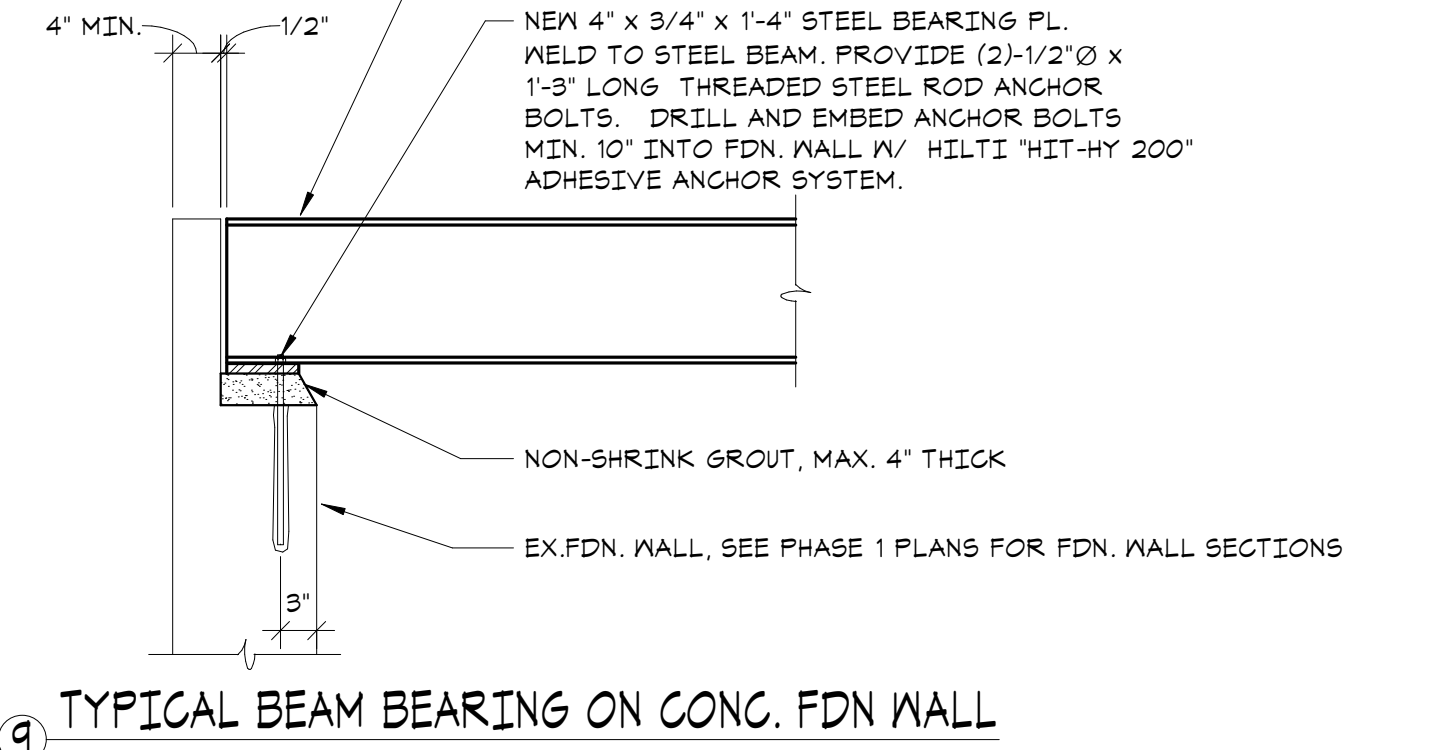
6. TYPICAL HUNG LINEL/RELIEVING ANGLE DETAIL
NO SCALE



7. TYPICAL BENT PLATE DETAIL
NO SCALE



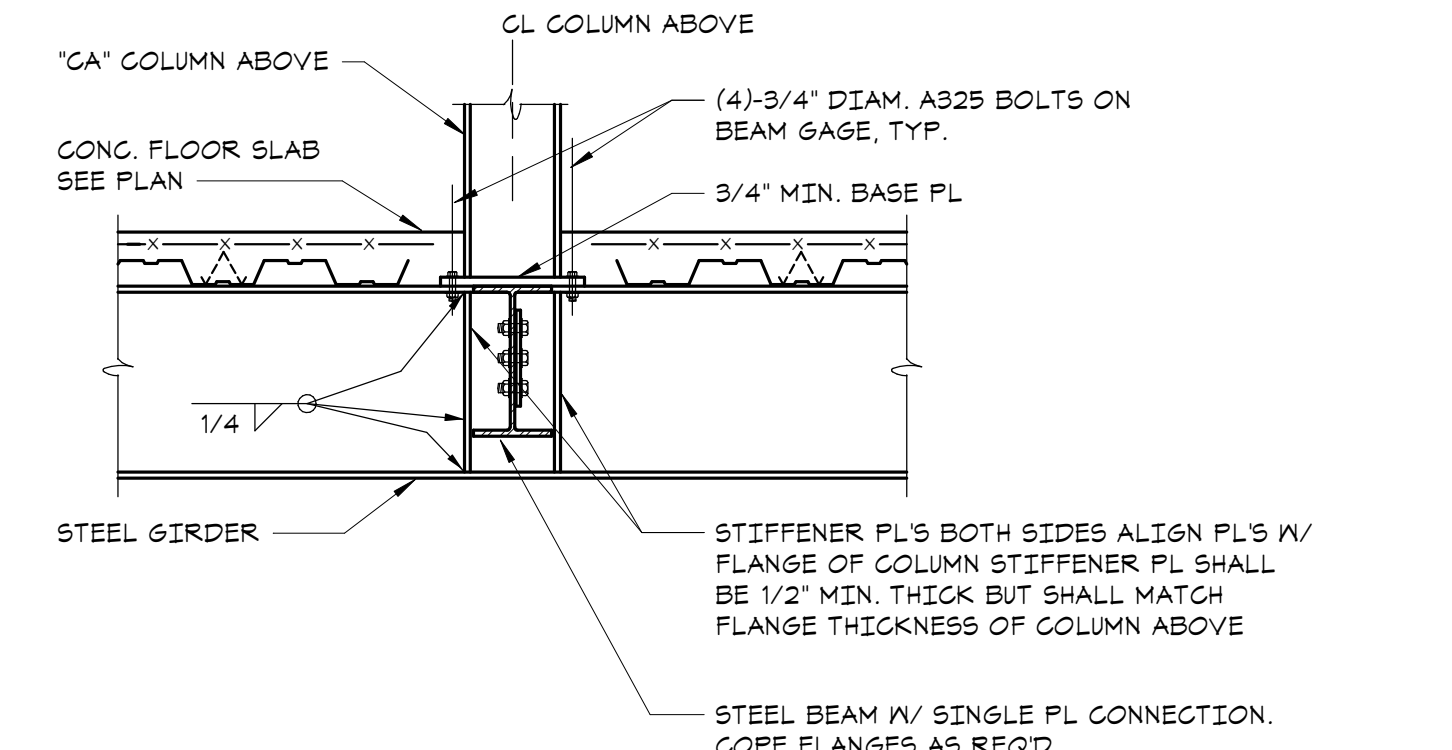
8. TYPICAL COLUMN INTERRUPTED BY GIRDER CONNECTION DETAIL
NO SCALE



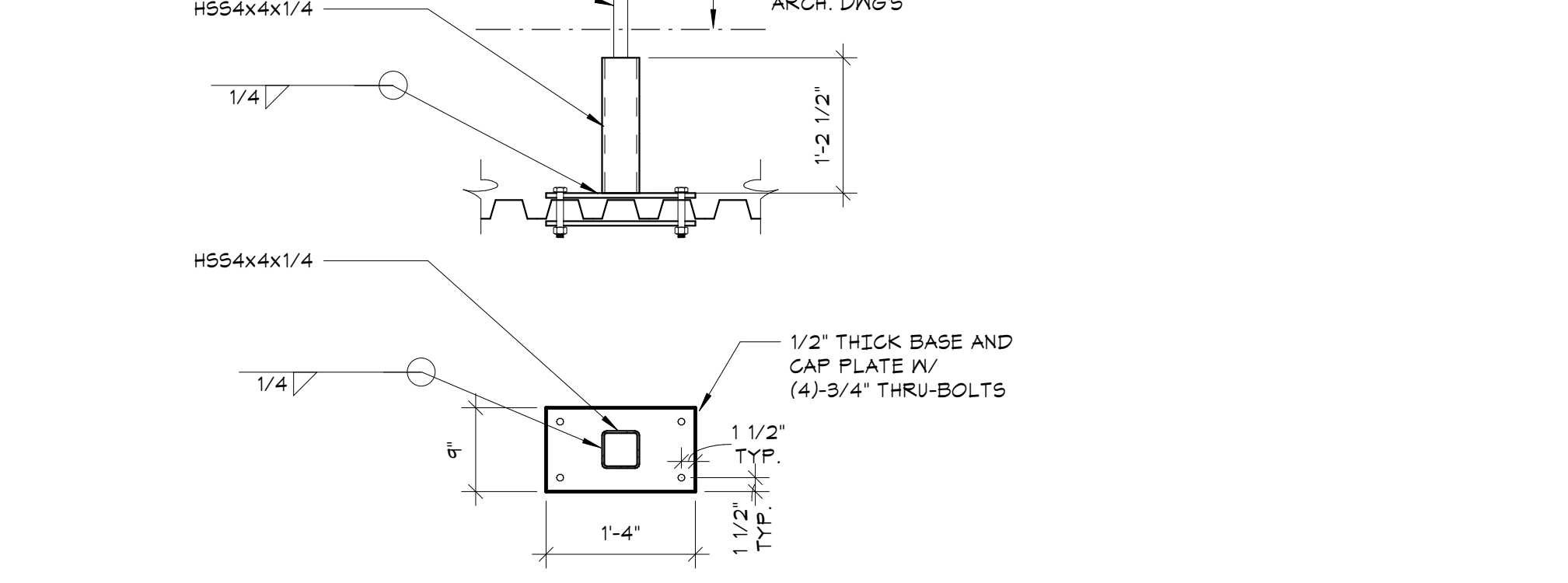
9. TYPICAL BEAM BEARING ON CONG. FDN WALL
NO SCALE



10. TYPICAL GIRDER SUPPORTING COLUMN CONNECTION DETAIL
NO SCALE



11. TYPICAL ROOF GUARD RAIL SECTION
NO SCALE



SECTION A

HARRISON RECREATION & COMMUNITY CENTER
New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
385 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

The DiSalvo Engineering Group
Structural Engineers
93 Lake Avenue, Suite 201
Danbury, CT 06810
[203] 490-4140 | www.tdeg.com

CONSTRUCTION DOCUMENTS

Key Plan

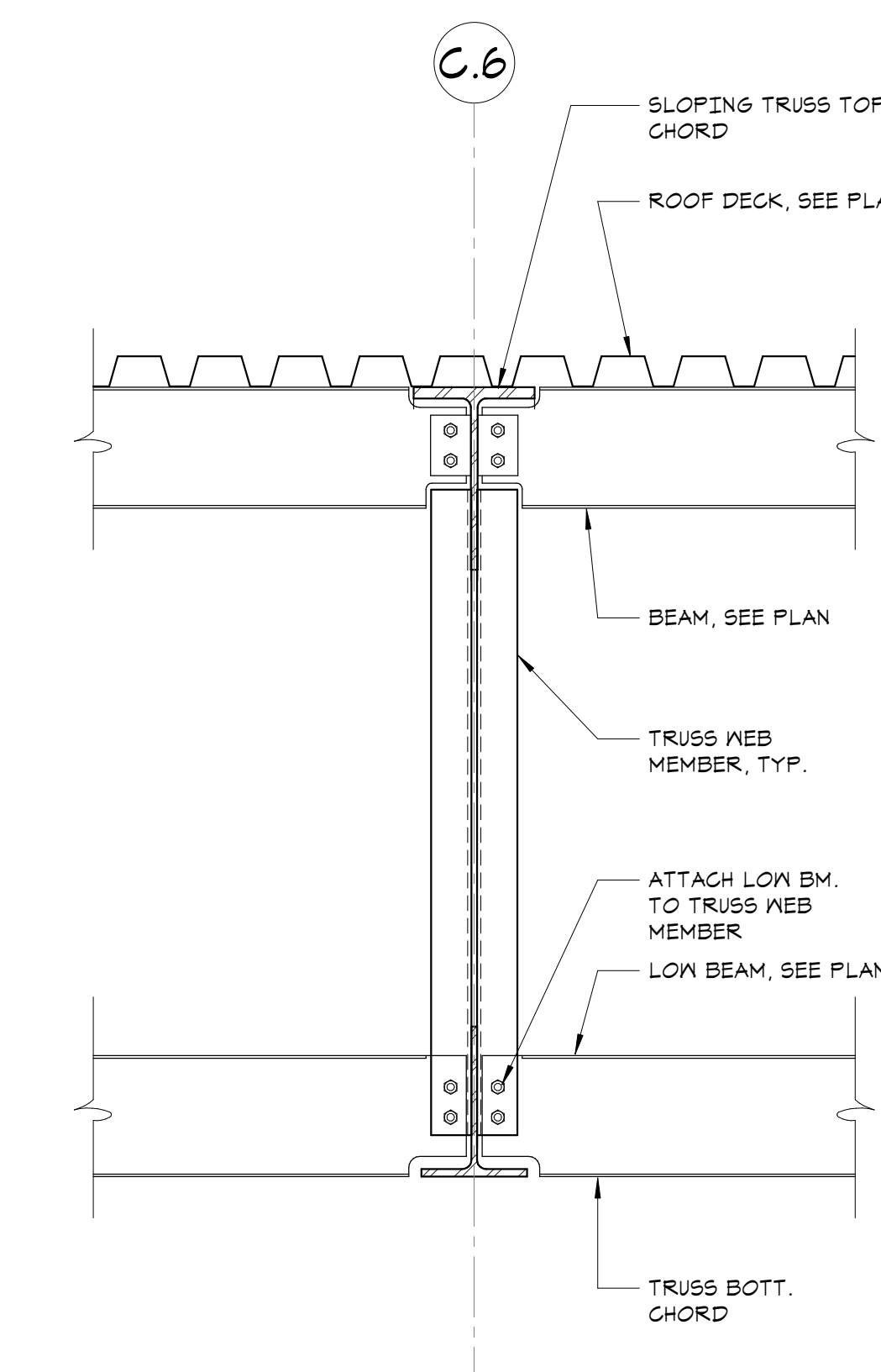
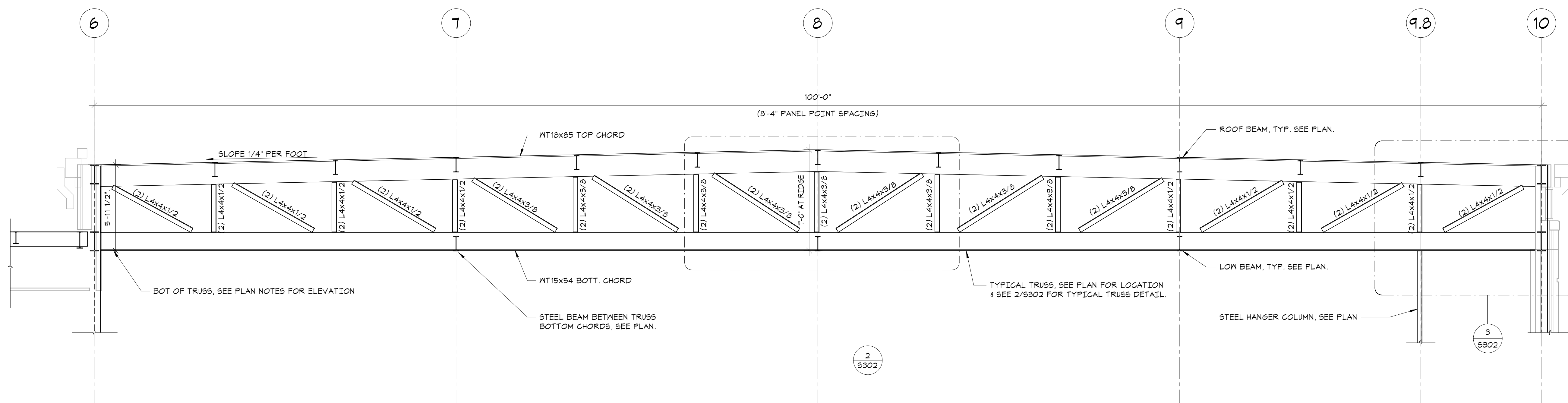
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Professional Seal

3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

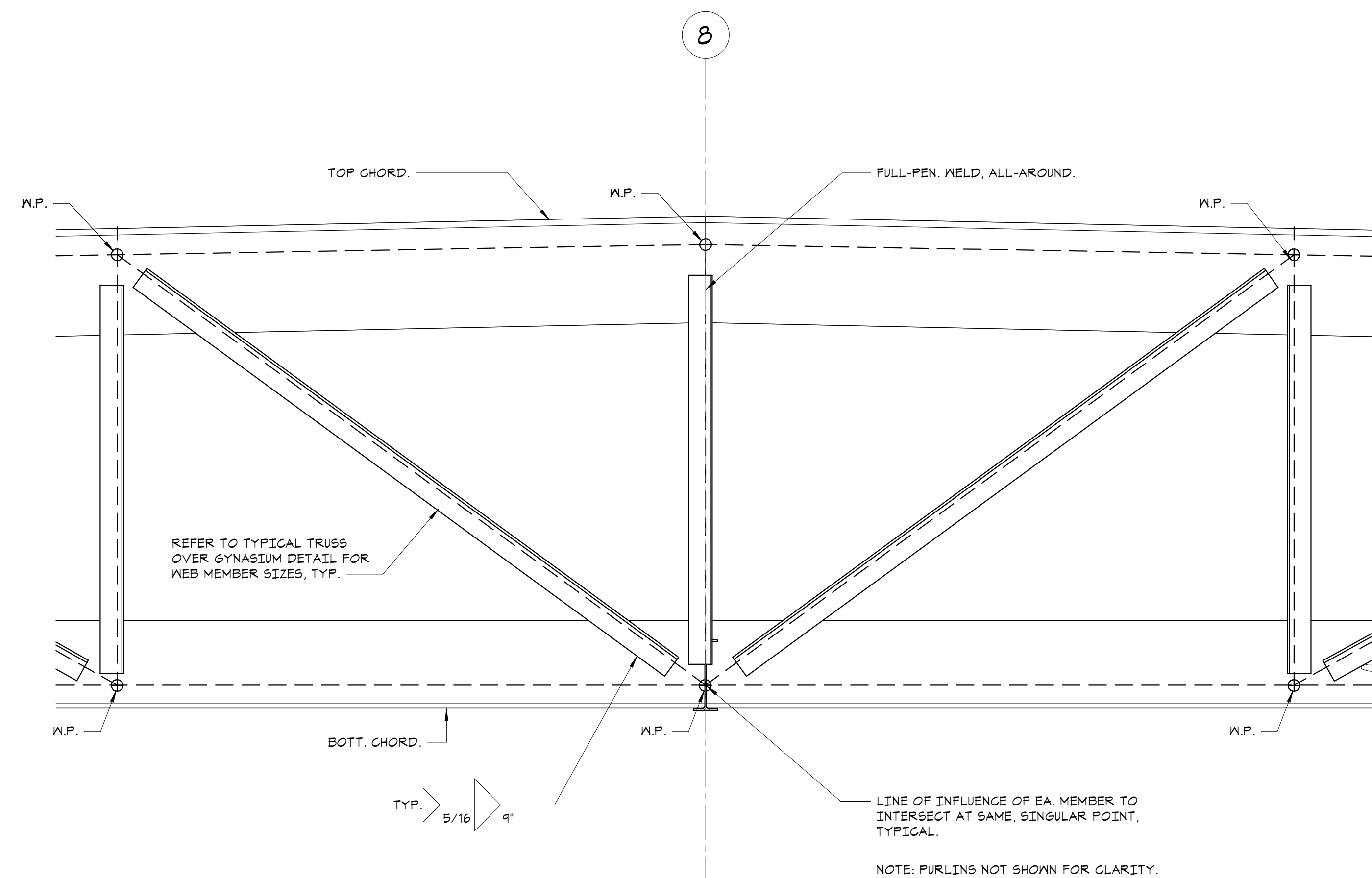
Sheet Title
STEEL FRAMING SCHEDULES AND TYPICAL DETAILS

Job No.	20029.00	Date	2020-06-01
Scale	AS NOTED	Drawn / Checked	JM / EM
Sheet Number	S301		

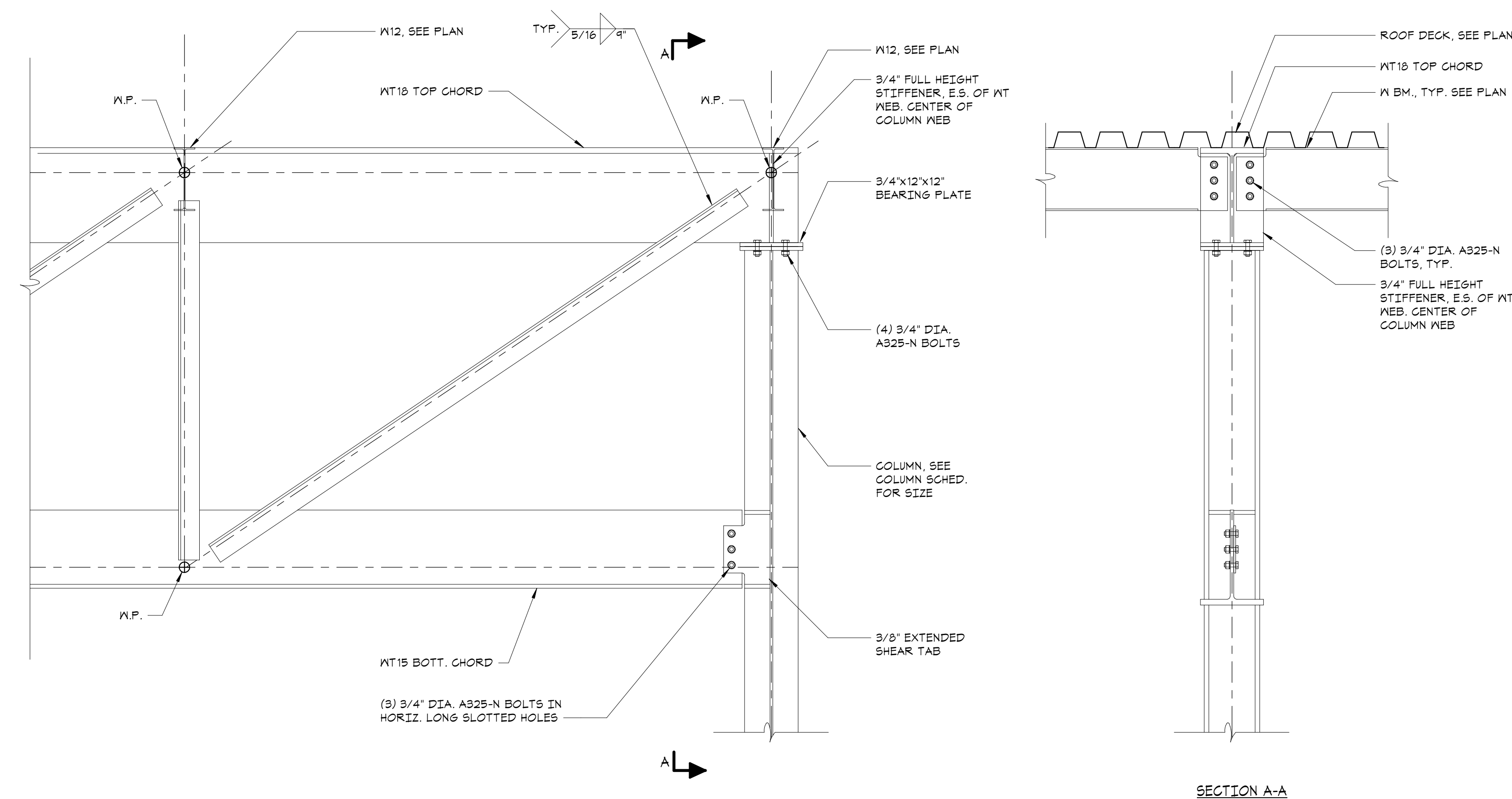


1 TYPICAL TRUSS OVER GYMNASIUM
NO SCALE

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



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



3 TYPICAL TRUSS BEARING DETAIL
NO SCALE

Key Plan

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Professional Seal

3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

No. Date Issue

Sheet Title

**TRUSS
ELEVATION AND
DETAILS**

Job No. 20029.00 Date 2020-06-01

Scale AS NOTED Drawn / Checked JM / EM

Sheet Number

S302

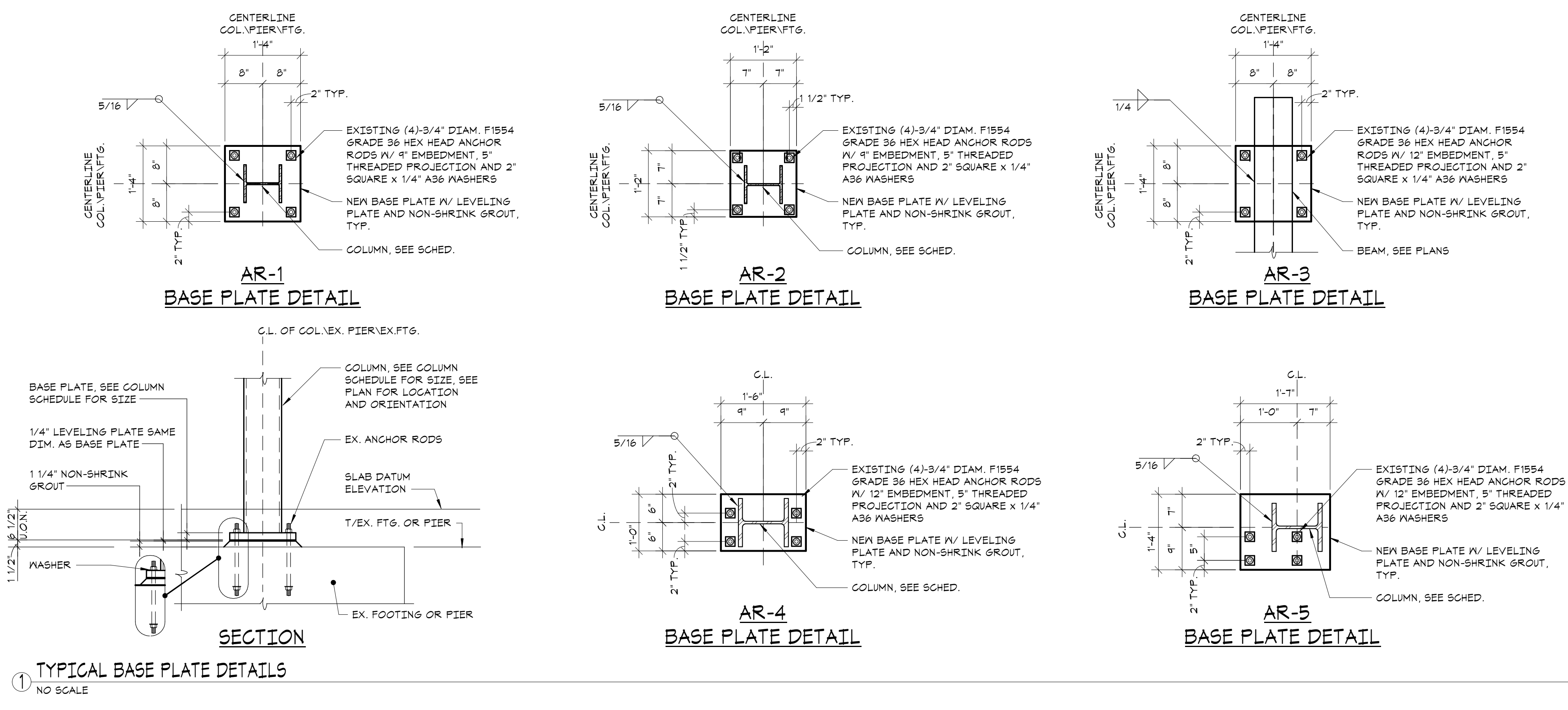
6YM T.O.S.																									6YM T.O.S.										
31'-2 1/2" SOUTH ROOF T.O.S.																									31'-2 1/2" SOUTH ROOF T.O.S.										
26'-T																									26'-T										
2ND FLOOR																									2ND FLOOR										
14'-0"																									14'-0"										
1ST FLOOR																									1ST FLOOR										
0'																									0'										
PARKING																									PARKING										
-12'-0"																									-12'-0"										
Column Locations	A-4.8	A-5.7	A-6	A-7	A-8	A-9	A-10	A-1-4	A-1-3	A-8-1	A-8-1.4	A-8-3	B-11	B-12	B-14	B-1-8	B-1-6	B-1-10	B-8-1	B-8-4	B-8-5.1	B-8-6	B-8-10	C-11	C-12	C-14	C-8-1	C-8-4	C-8-5.1	C-8-6	C-8-10	D-11	D-12		
Base Plate	AR-1	AR-1	AR-5	AR-4	AR-4	AR-4	AR-5	AR-1	AR-1	AR-2	SEE DETAIL 10/5301	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-2	SEE DETAIL 10/5301	SEE DETAIL 10/5301	AR-1	AR-1	AR-1	AR-1	AR-1	AR-2	SEE DETAIL 10/5301	SEE DETAIL 10/5301	AR-1	AR-1	AR-1	AR-1	AR-1
Base Plate Size	16'x3/4'x16'	16'x3/4'x16'	19'x3/4'x16'	18'x3/4'x12'	18'x3/4'x12'	18'x3/4'x12'	19'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	14'x3/4'x14'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	14'x3/4'x14'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	14'x3/4'x14'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	

6YM T.O.S.																									6YM T.O.S.									
31'-2 1/2" SOUTH ROOF T.O.S.																									31'-2 1/2" SOUTH ROOF T.O.S.									
26'-T																									26'-T									
2ND FLOOR																									2ND FLOOR									
14'-0"																									14'-0"									
1ST FLOOR																									1ST FLOOR									
0'																									0'									
PARKING																									PARKING									
-12'-0"																									-12'-0"									
Column Locations	D-14	D-1-1	D-1-3	D-1-4	D-1-5.7	D-1-6	D-1-10	E-11	E-12	E-13	E-1-1	E-1-3	E-1-4	E-1-4.4	E-1-5.7	E-1-6	E-1-10	E-8-3	E-8-4	F-5.7	F-6	F-7	F-8	F-9	F-10	F-11	F-12	F-13	G-5.9	G-6.8	G-7.8	G-8.8	G-8.9	
Base Plate	AR-1	AR-2	AR-1	AR-1	SEE DETAIL 10/5301	AR-1	AR-1	AR-1	AR-1	AR-1	AR-2	AR-1	SEE DETAIL 10/5301	SEE DETAIL 10/5301	SEE DETAIL 10/5301	AR-1	AR-1	AR-1	SEE DETAIL 10/5301	SEE DETAIL 10/5301	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1
Base Plate Size	16'x3/4'x16'	14'x3/4'x14'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	14'x3/4'x14'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	

6YM T.O.S.													6YM T.O.S.
31'-2 1/2" SOUTH ROOF T.O.S.													31'-2 1/2" SOUTH ROOF T.O.S.
26'-T													26'-T
2ND FLOOR													2ND FLOOR
14'-0"													14'-0"
1ST FLOOR													1ST FLOOR
0'													0'
PARKING													PARKING
-12'-0"													-12'-0"
Column Locations	G-11.1	G-11.2	G-12.2	G-13	H-2	H-4	R-1.4(-1'-6 1/4")	E-8-R3	G(2'-1 3/4")-R2	R1-R3	R2-R3		
Base Plate	AR-1	AR-1	AR-1	AR-1	AR-2	AR-2	SEE DETAIL 10/5301	AR-2	SEE DETAIL 10/5301	AR-2	AR-2		
Base Plate Size	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	16'x3/4'x16'	14'x3/4'x12'	14'x3/4'x14'	14'x3/4'x14'	14'x3/4'x14'	14'x3/4'x14'	14'x3/4'x14'	14'x3/4'x14'		

NOTE: COLUMNS ARE TO BE PROVIDED AS ONE PIECE AS SHOWN, OR AT CONTRACTOR'S OPTION, SPLICED SECTIONS HAVING FULL PENETRATION WELDS (AT CONTRACTOR'S EXPENSE)

NO SCALE



Key Plan

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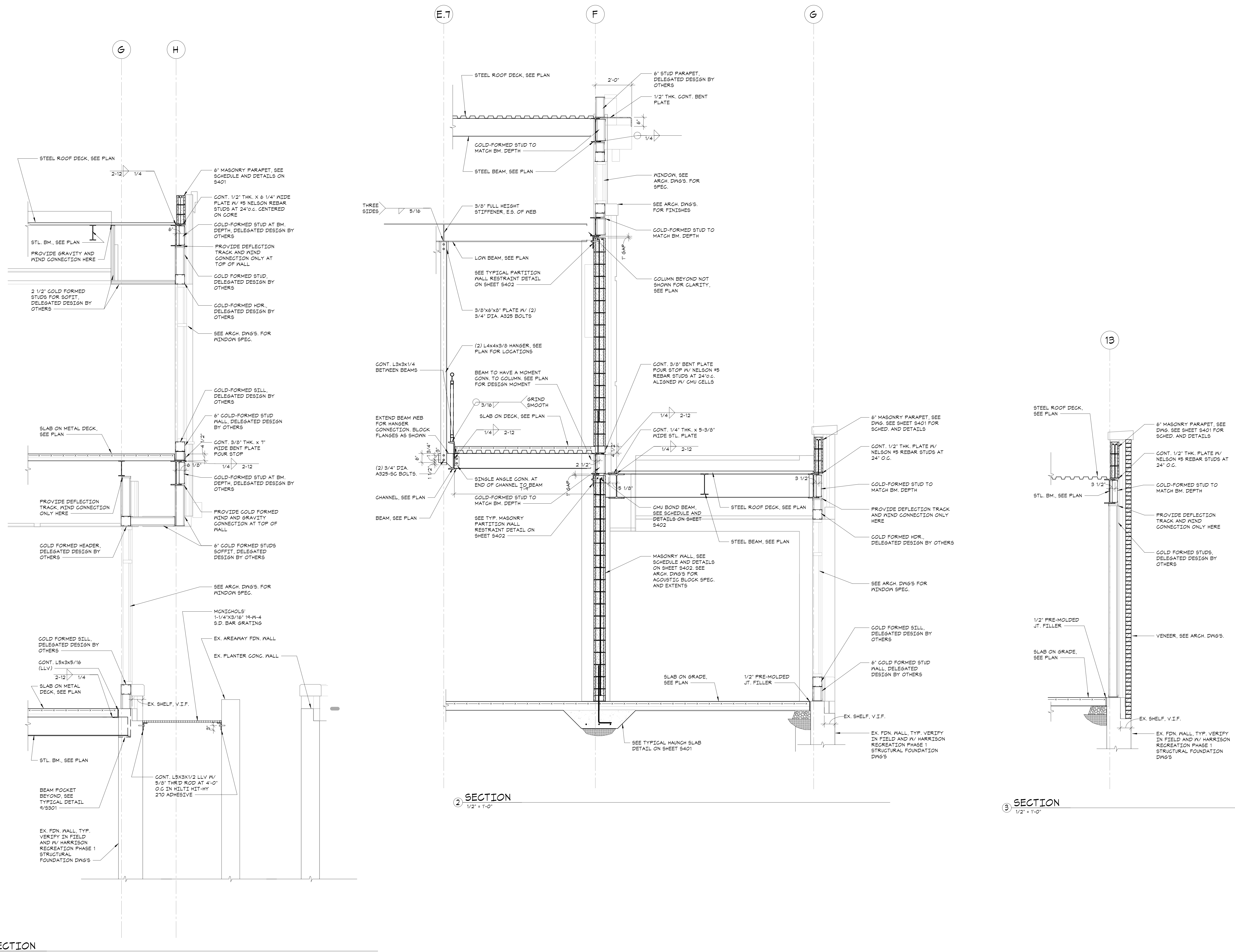
Professional Seal

3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

Sheet Title

**STEEL COLUMN
SCHEDULE AND
DETAILS**

Job No.	20229.00	Date	2020-06-01
Scale	AS NOTED	Drawn / Checked	JM / EM
Sheet Number	S303		



Key Plan

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Professional Seal

3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

No. Date Issue

Sheet Title

**FRAMING
SECTIONS**

Job No. 20029.00 Date 04/26/23

Scale AS NOTED Drawn / Checked JM / CGB

Sheet Number

S312

**HARRISON
RECREATION &
COMMUNITY
CENTER**

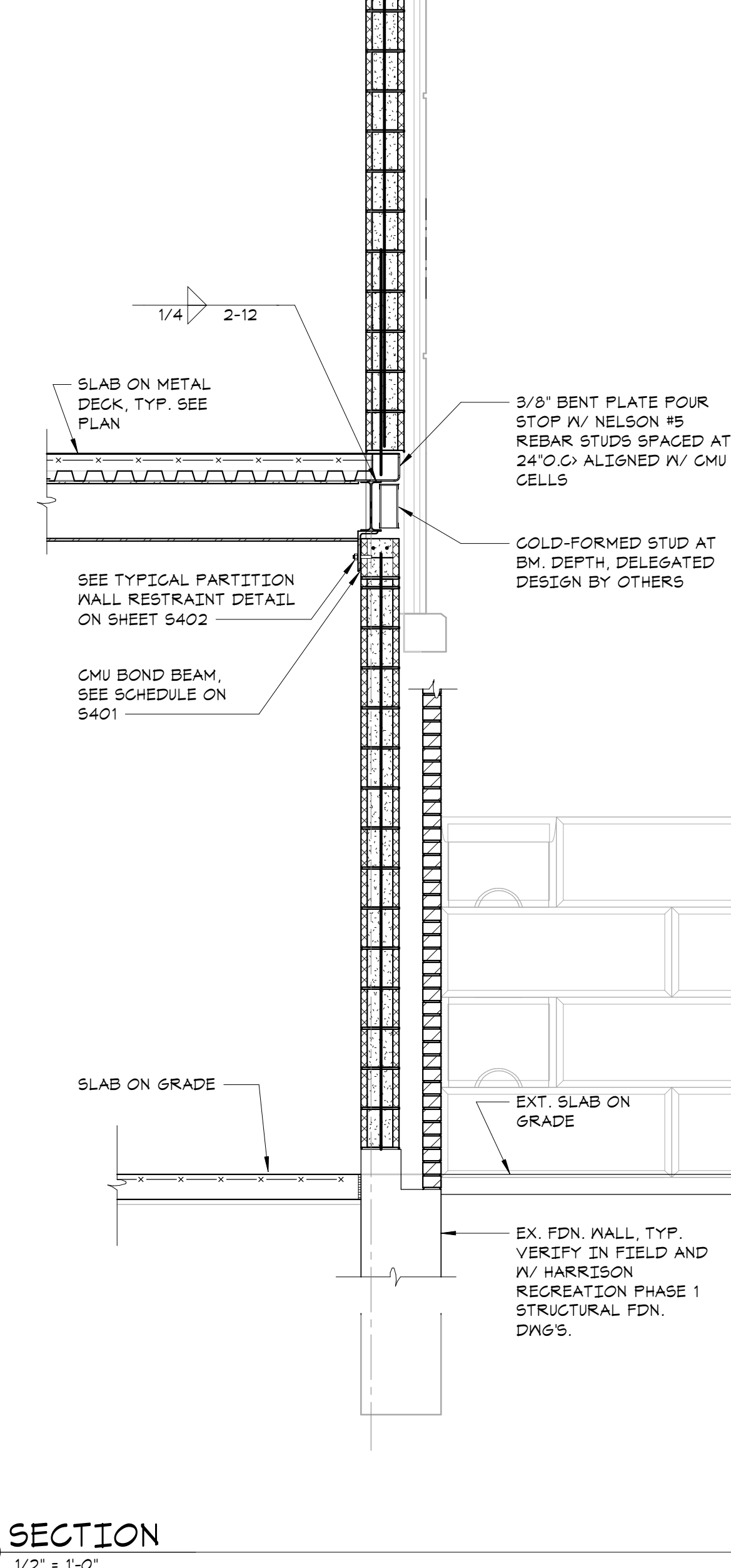
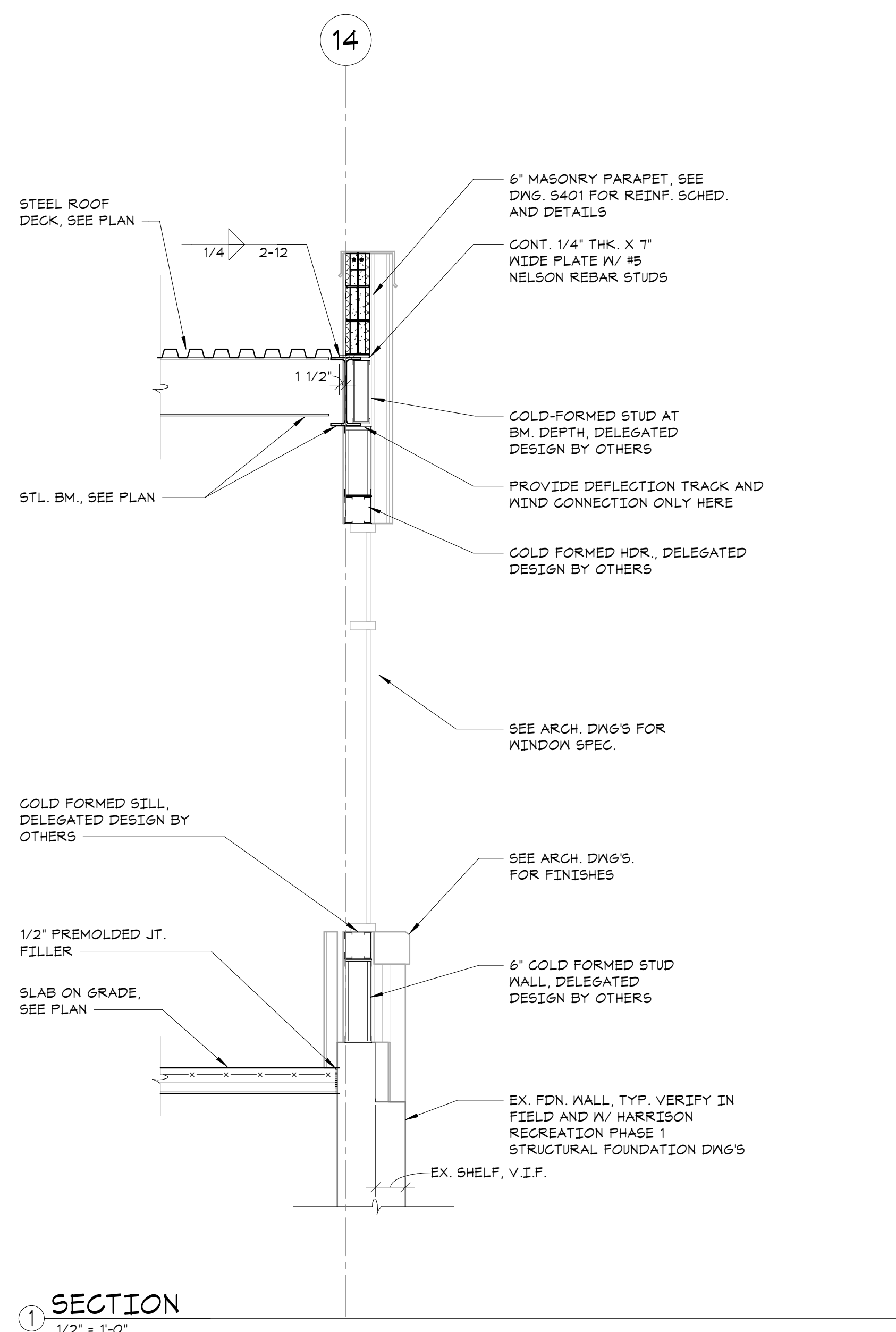
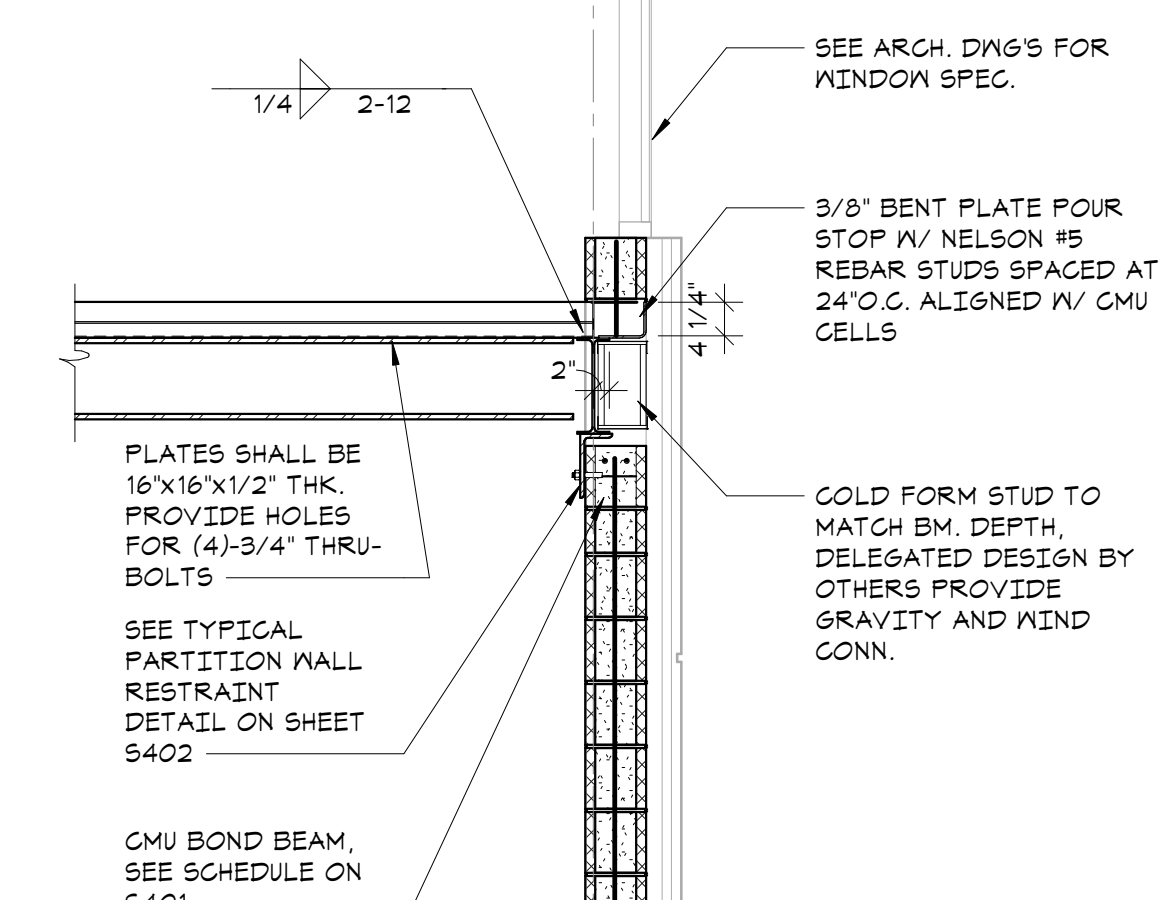
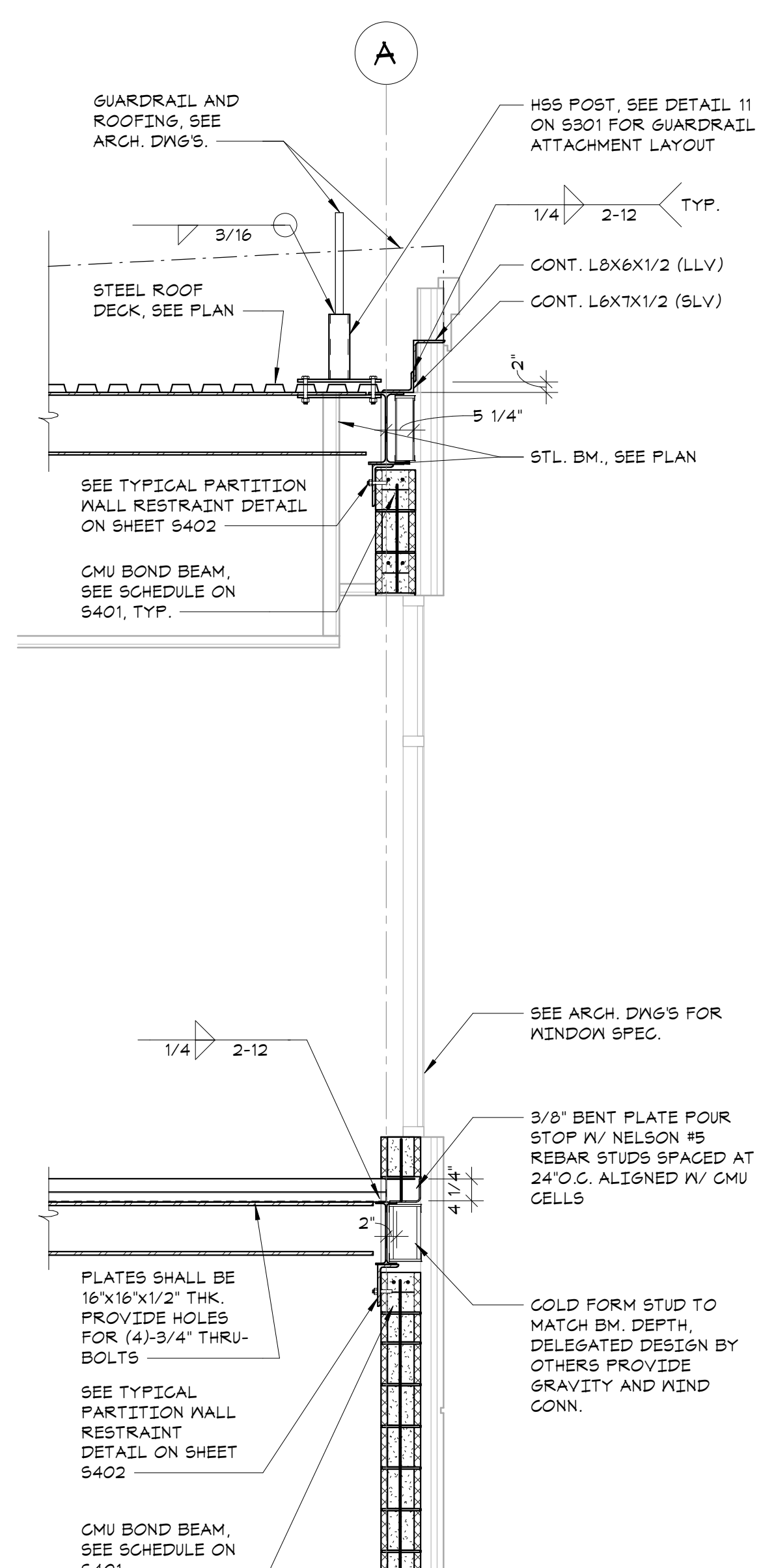
New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS



Key Plan

OWNERSHIP, USE AND ALTERATION OF DOCUMENTS:

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Professional Seal

3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

No. Date Issue

Sheet Title

**FRAMING
SECTIONS**

Job No. 20029.00 Date 12/20/23

Scale AS NOTED Drawn / Checked Author Checker

Sheet Number

S313

Key Plan

OWNERSHIP, USE AND ALTERATION OF DOCUMENTS:

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Professional Seal

3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

No. Date Issue

Sheet Title

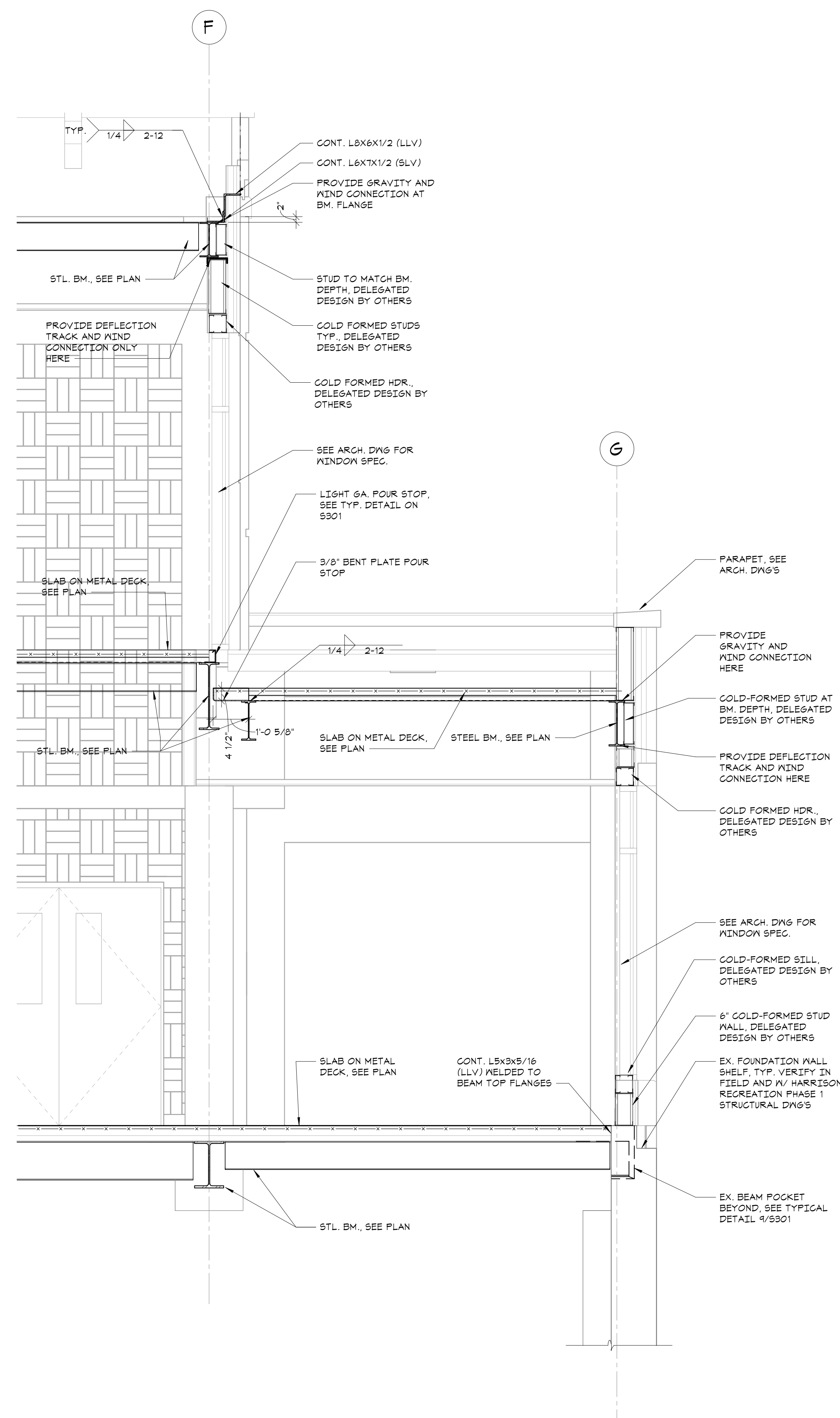
**FRAMING
SECTIONS**

Job No. 20029.00 Date 12/20/23

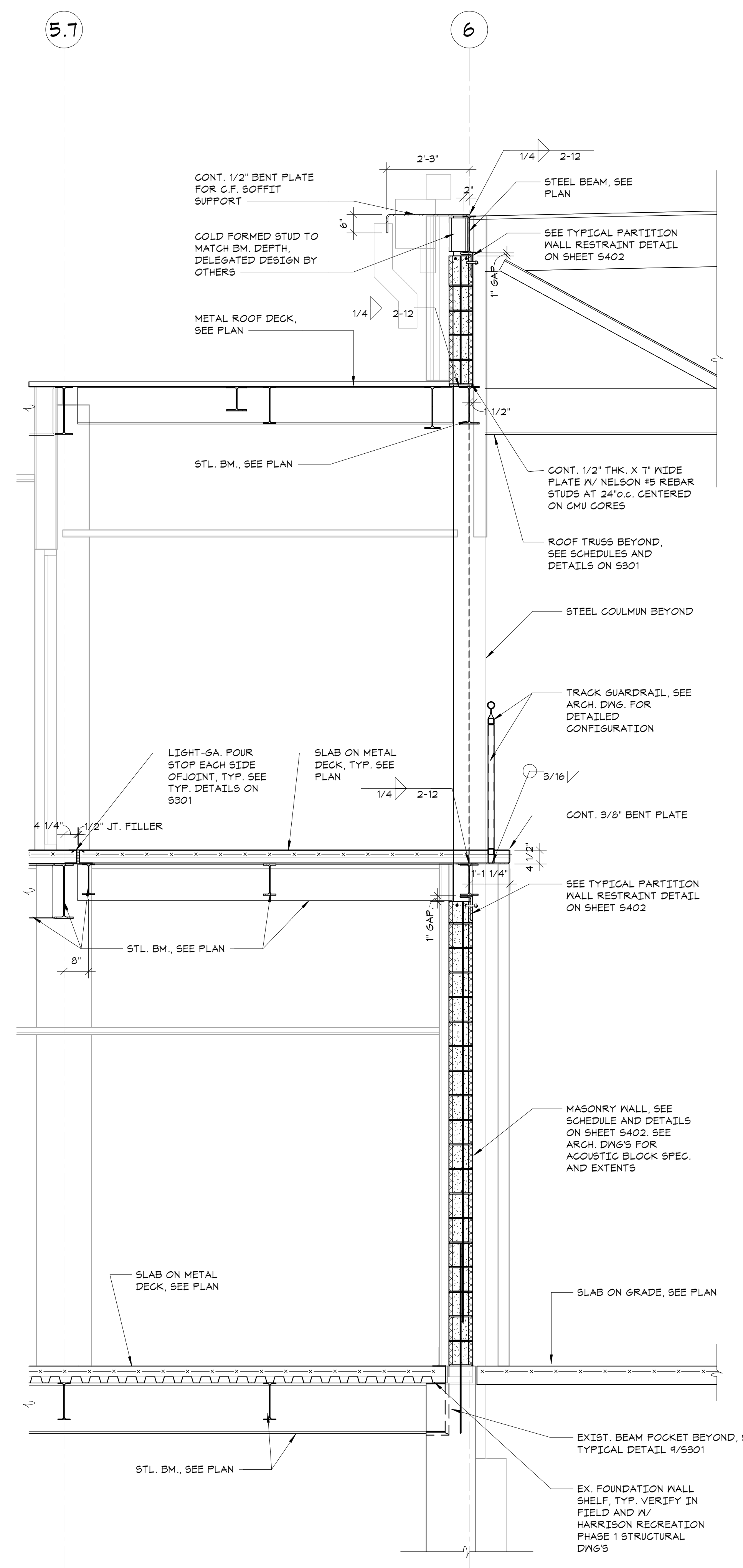
Scale AS NOTED Drawn / Checked Author / Checker

Sheet Number

S314



SECTION 1
1/2" = 1'-0"



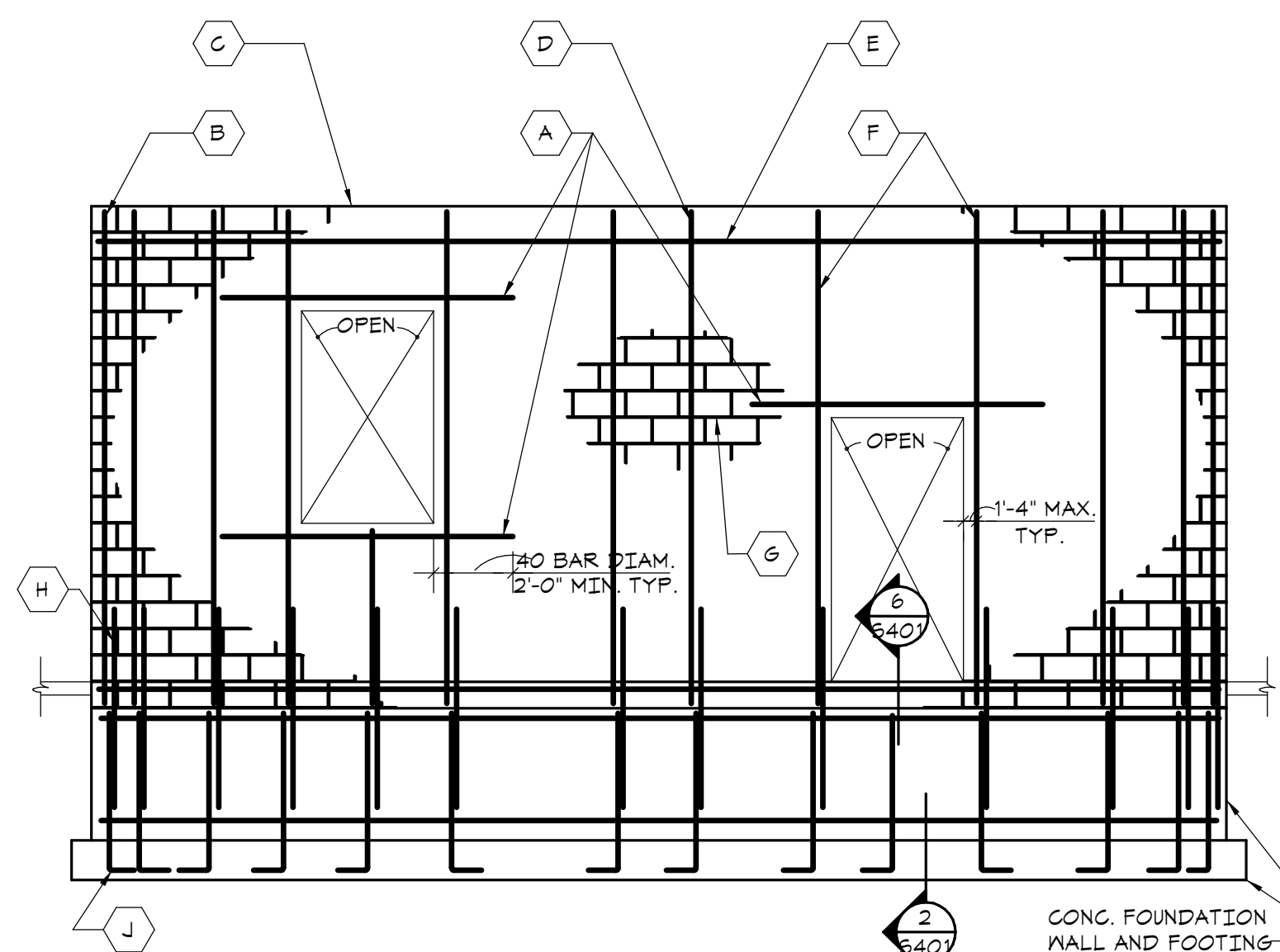
SECTION 2
1/2" = 1'-0"

KEYNOTES	
(A)	(2)#5 HORIZ. REINF. GROUTED SOLID IN BOND BEAM/COURSE TYP. ABOVE AND BELOW ALL OPENINGS. FOR HORIZONTAL REINFORCING IN MASONRY LINTELS SEE "TYPICAL MASONRY LINTEL IN NON-LOAD BEARING WALL DETAIL"
(B)	VERT. FULL HEIGHT REINF. IN SOLID GROUT, TYP. AT WALL ENDS, CORNERS, AND EACH SIDE OF CJS. SEE REINFORCEMENT SCHEDULE
(C)	CMU WALL. FOR SIZE, SEE PLANS AND REINFORCEMENT SCHEDULE.
(D)	TYP. VERTICAL REINF. SEE REINFORCEMENT SCHEDULE (U.O.N. BY SECTION). FILL CELLS CONTAINING REINF. SOLID W/ GROUT.
(E)	(2)#5 HORIZ. REINF. AT TOP OF WALL GROUTED SOLID IN BOND BEAM COURSE. PLACE REINF. ONE COURSE LOWER WHERE WALL ABUTS FLOOR ABOVE.
(F)	VERT. FULL HEIGHT REINF. IN SOLID GROUT, TYP. AT BOTH SIDES OF ALL WALL OPENINGS. SEE REINFORCEMENT SCHEDULE.
(G)	HORIZ. JOINT REINFORCING. SEE GENERAL NOTES.
(H)	PROVIDE REINFORCING DOWELS BETWEEN FDN. AND MASONRY WALL EQUAL TO SIZE AND SPACING OF MASONRY VERT. WALL REINFORCING (MAX. SPACING = 4'-0" O.C.). REINFORCING DOWELS SHALL EXTEND INTO MASONRY WALLS AND SHALL BE LAPPED 48 BAR DIAM.
(J)	PROVIDE REINFORCING DOWELS BETWEEN FTG. AND FDN. WALL EQUAL TO SIZE AND SPACING OF MASONRY VERT. WALL REINFORCING (MAX. SPACING = 4'-0" O.C.). REINFORCING DOWELS SHALL EXTEND INTO MASONRY WALLS AND SHALL BE LAPPED 48 BAR DIAM.

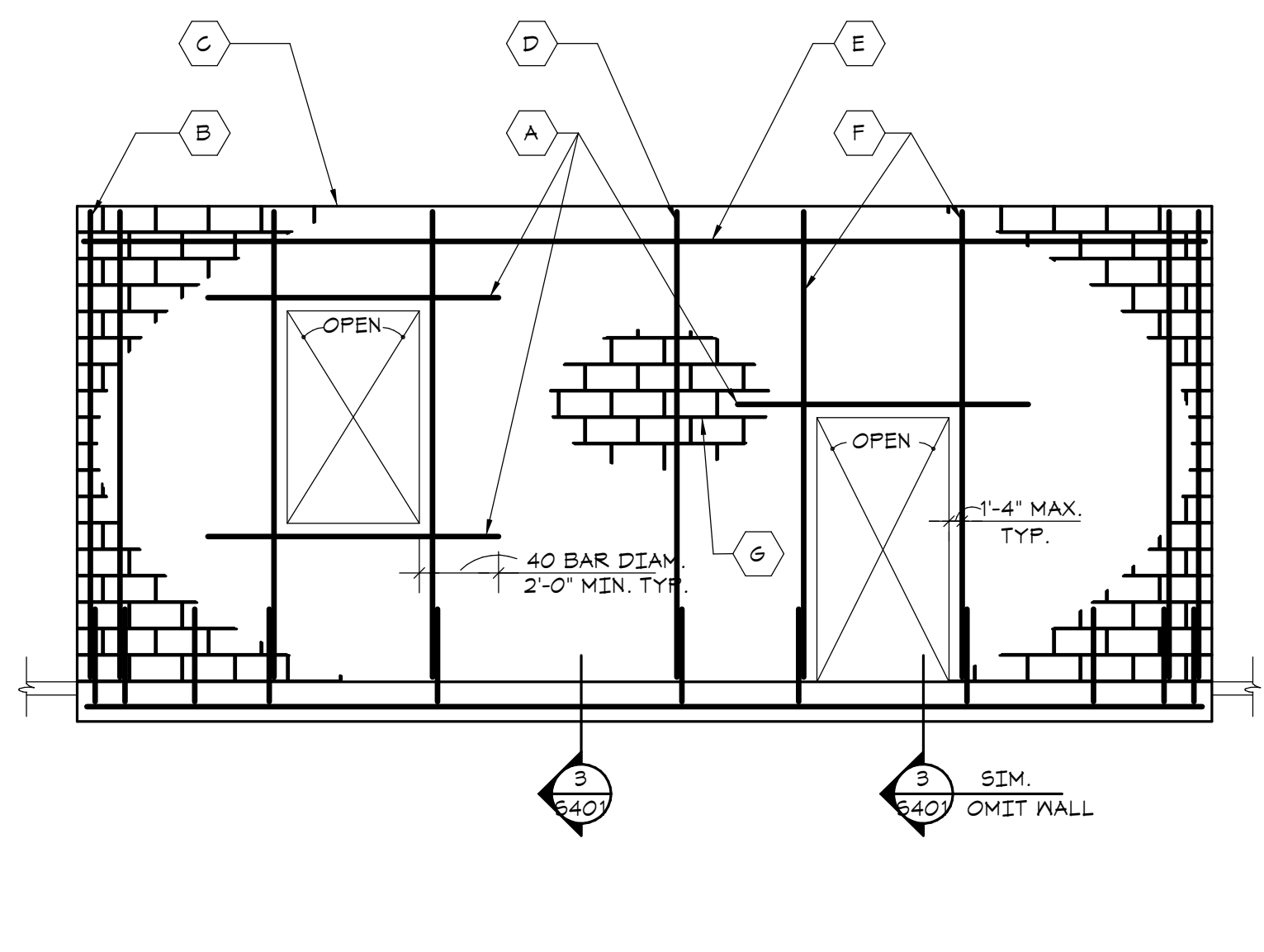
REINFORCEMENT SCHEDULE		
MALL DESCRIPTION	MALL TYPE	VERTICAL REINFORCEMENT
8' CMU SHAFT WALLS, AND EXTERIOR WALLS (ENCL. ACOUSTIC CMU)	A	(D) #5 AT 32" O.C.
		(B) (3)#5
		(F) (1)#5
8' CMU PARTITIONS	B	(D) #4 AT 48" O.C.
		(B) (1)#4
		(F) (1)#4

NOTE: ALL 8' CMU PARTITIONS MUST BE BRACED AT EACH FLOOR LEVEL.

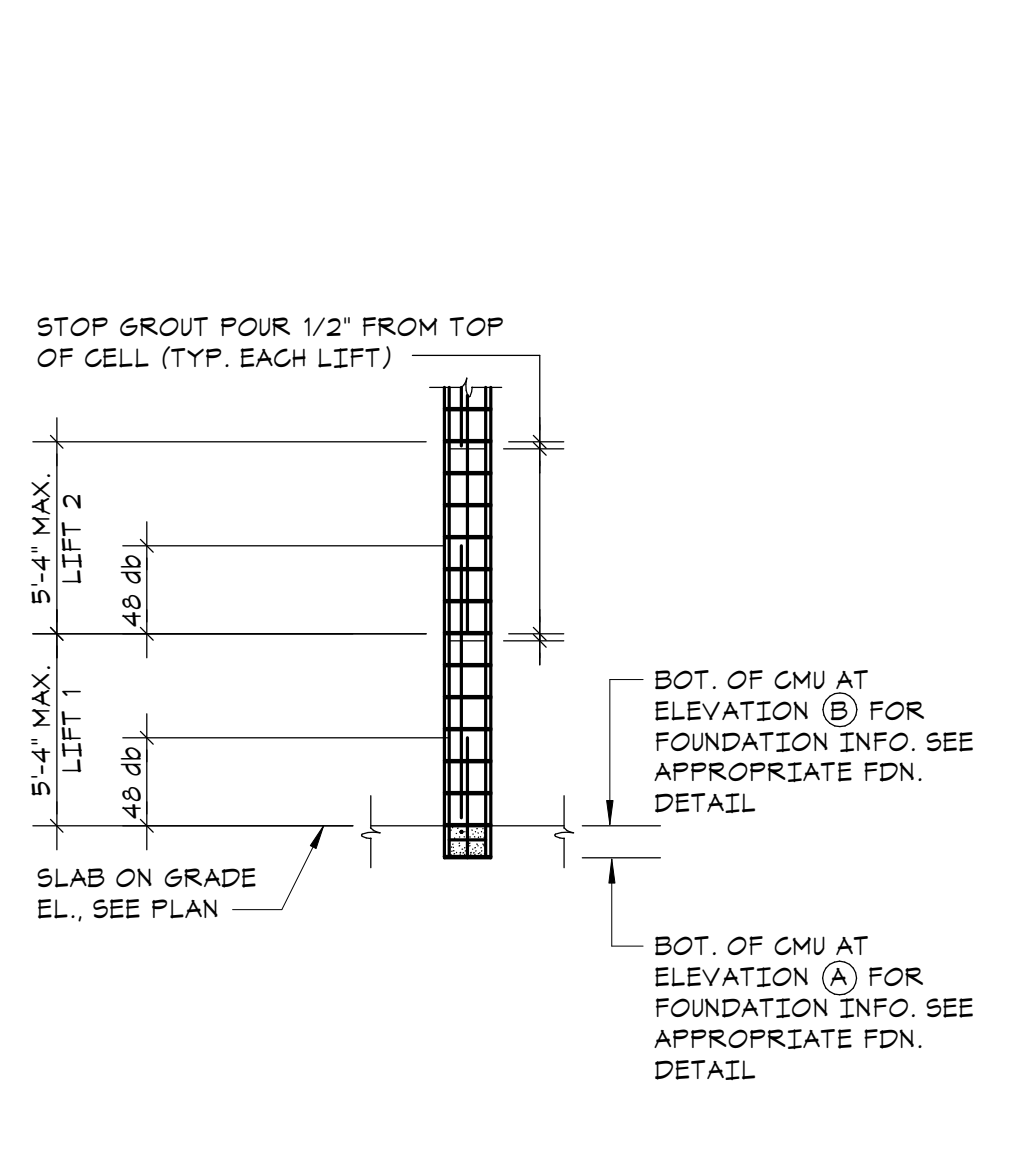
- NOTES:
- FOR CMU WALL LOCATIONS AND EXTENT, SEE ARCH. DWGS.
 - SEE ARCH. DWGS. FOR LOCATIONS OF CONTROL JOINTS. DO NOT LOCATE CONTROL JOINTS WITHIN 32" OF MASONRY OPENINGS.
 - ALL CMU CELLS CONTAINING VERTICAL REINFORCEMENT SHALL BE GROUTED SOLID.
 - ALL GROUTED CELLS SHALL BE MECHANICALLY VIBRATED IN ACCORDANCE WITH ACI 530. IN ADDITION, AFTER 10 MINUTES, MECHANICALLY VIBRATE GROUTED CELLS A SECOND TIME.
 - BOND BEAM AT SLOPING STEEL BEAMS/ROOFS/CEILING: ELEVATION OF CONTINUOUS BOND BEAM MUST VARY 1/4" SLOPING STL. BM/ROOF/CEILING. WHERE CHANGES COURSE, RUN BOND BEAM IN BOTH COURSES FOR A MINIMUM OF 6'-0"



ELEVATION AT EXTERIOR WALLS

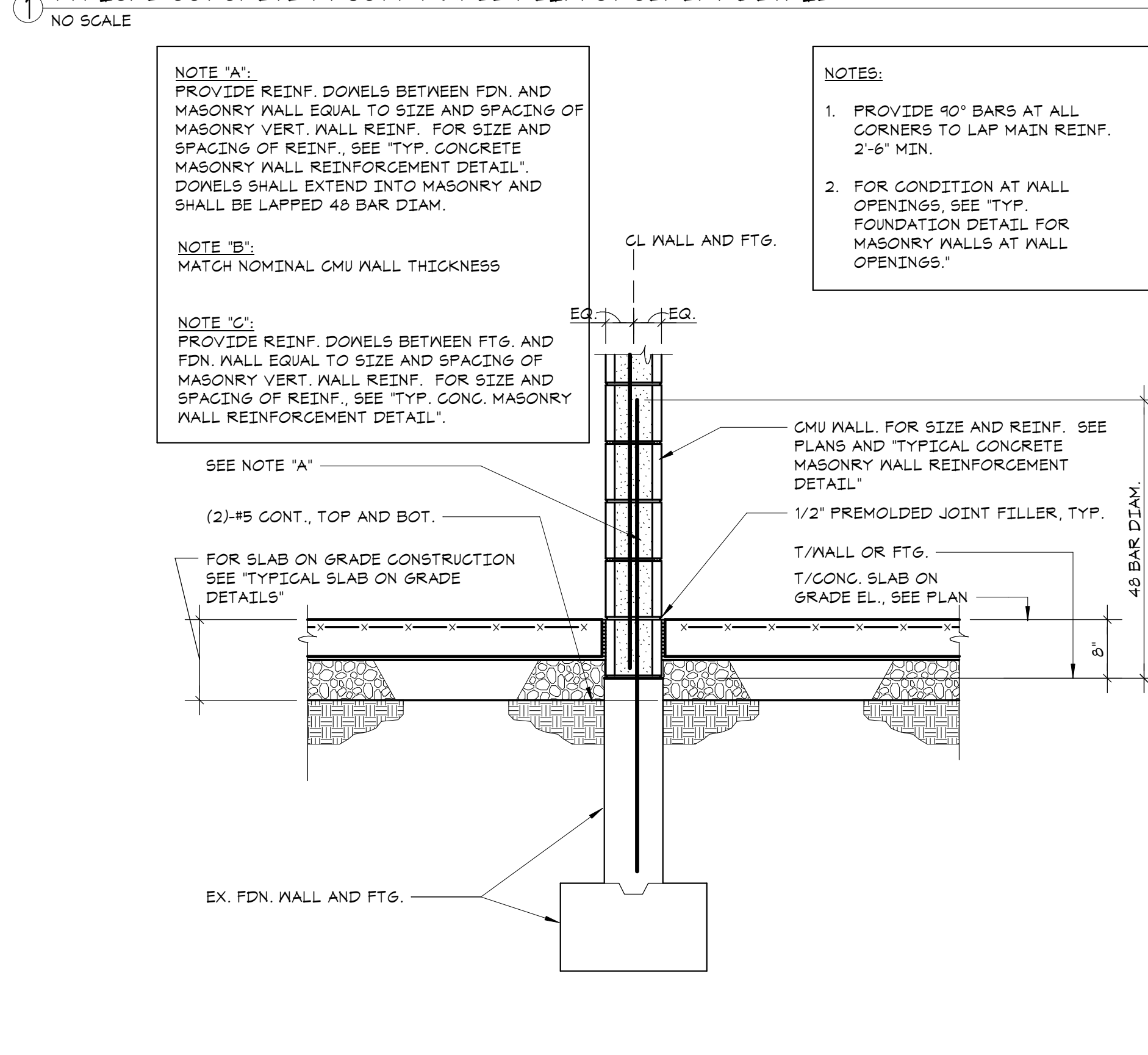


ELEVATION AT PARTITION WALLS

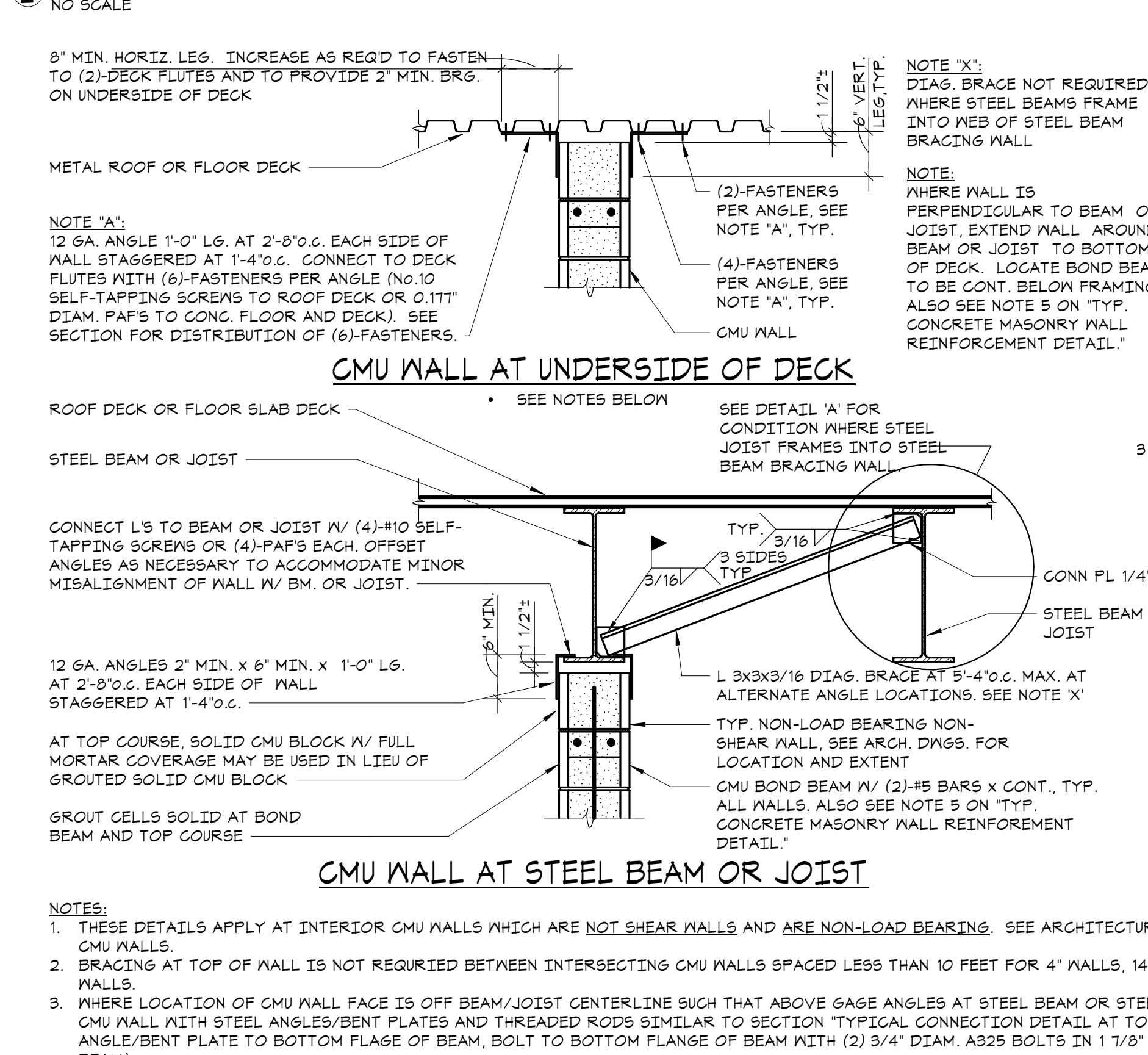


SECTION - LOW LIFT WALL GROUTING DETAIL

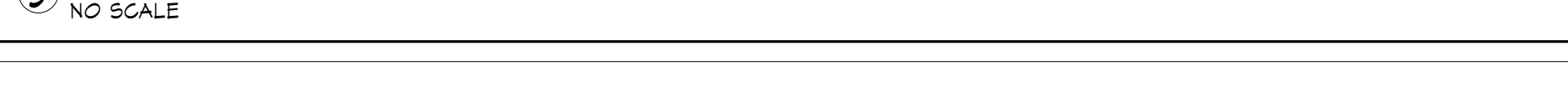
1 TYPICAL CONCRETE MASONRY WALL REINFORCEMENT DETAIL



2 TYPICAL FOUNDATION DETAIL FOR MASONRY WALLS

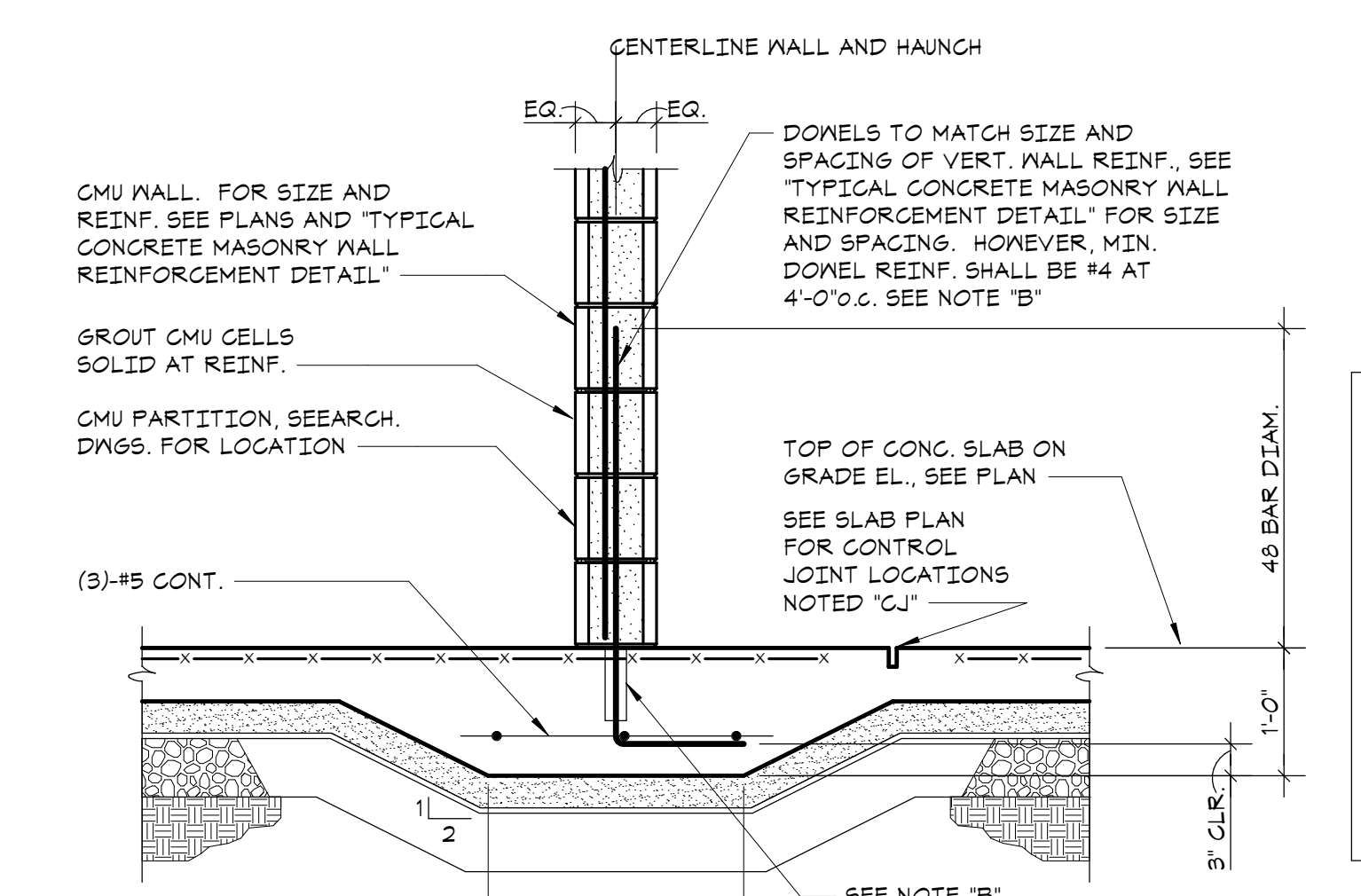


5 TYPICAL BRACING DETAIL AT TOP OF PARTITION WALL

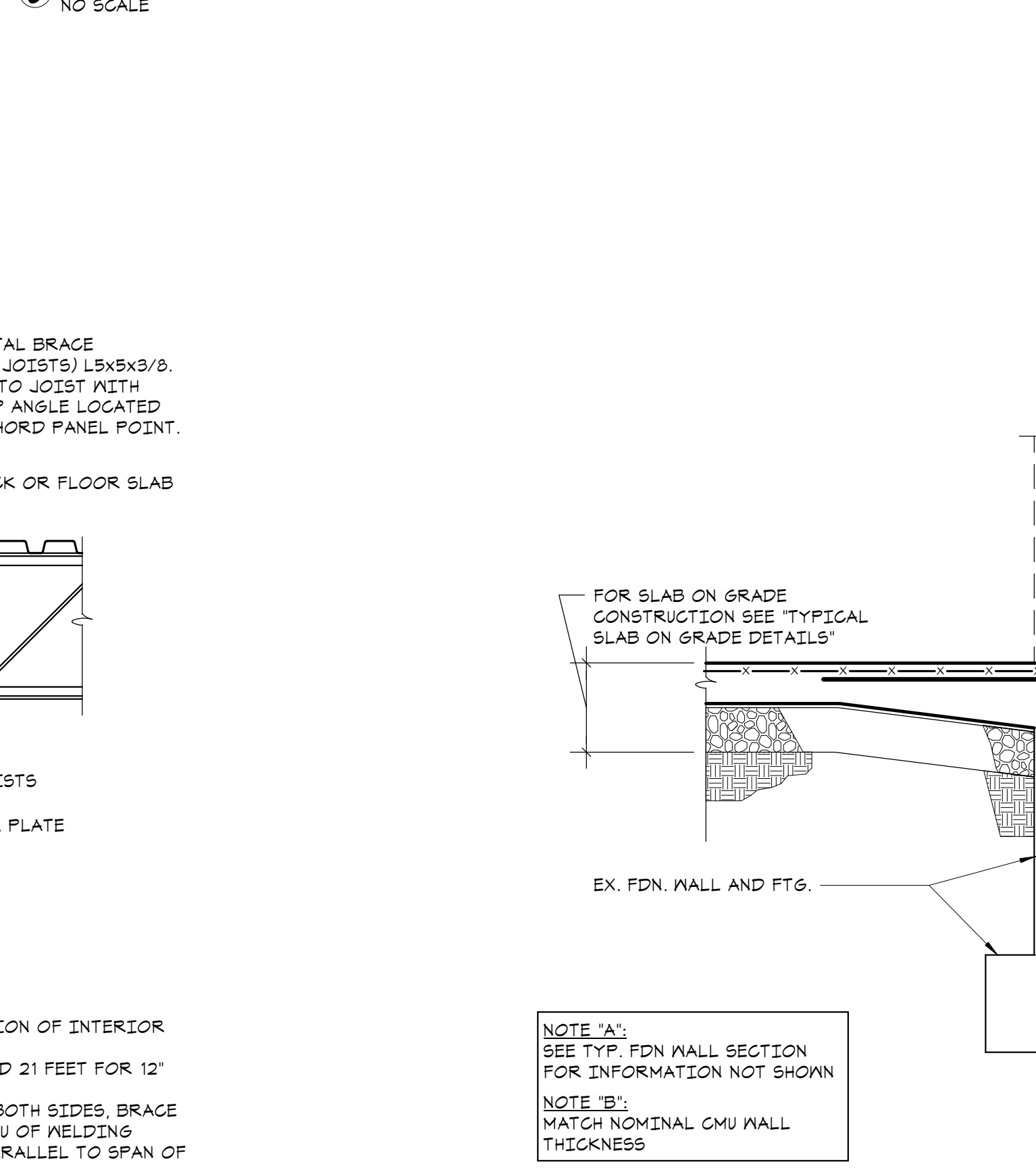


- PARTITIONS ARE WALLS OTHER THAN SHEAR WALLS, EXTERIOR WALLS, AND BEARING WALLS

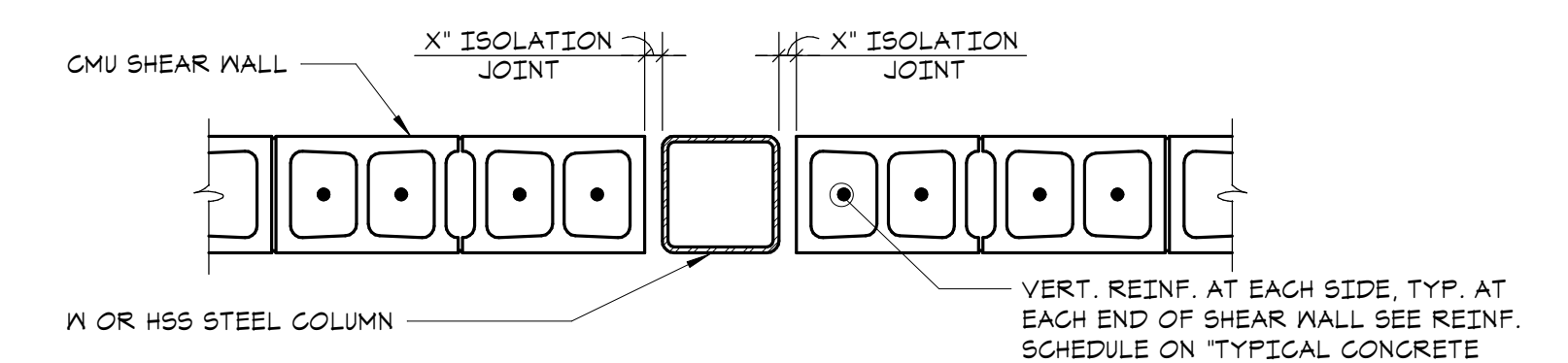
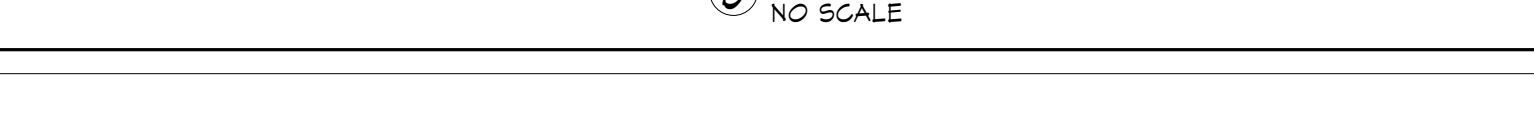
- FOR ADDITIONAL GROUTING REQUIREMENTS, SEE NOTE 4 AND GENERAL NOTES.



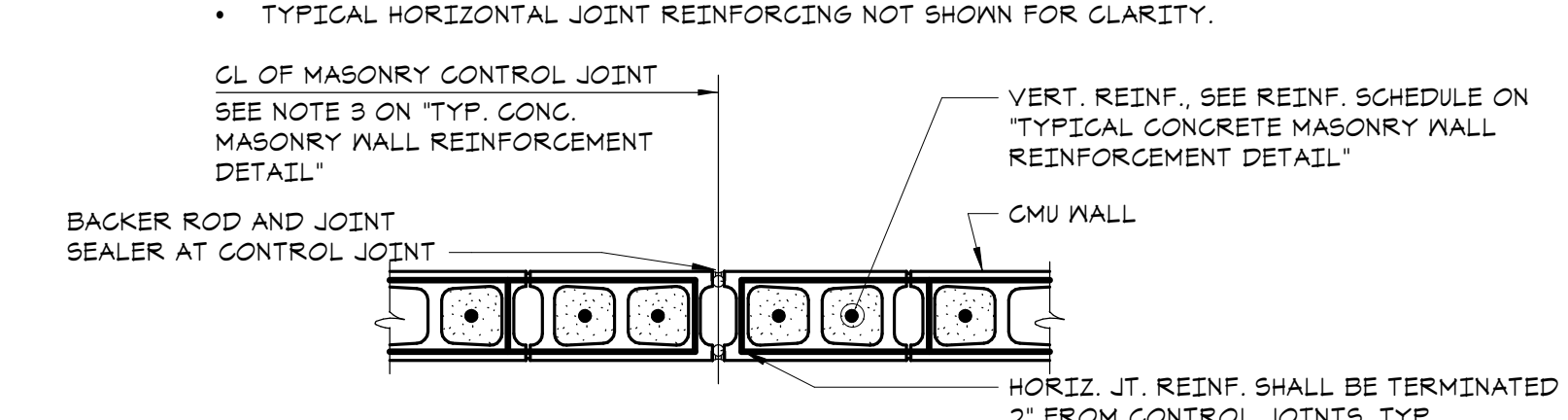
3 TYPICAL PARTITION WALL SUPPORT DETAIL



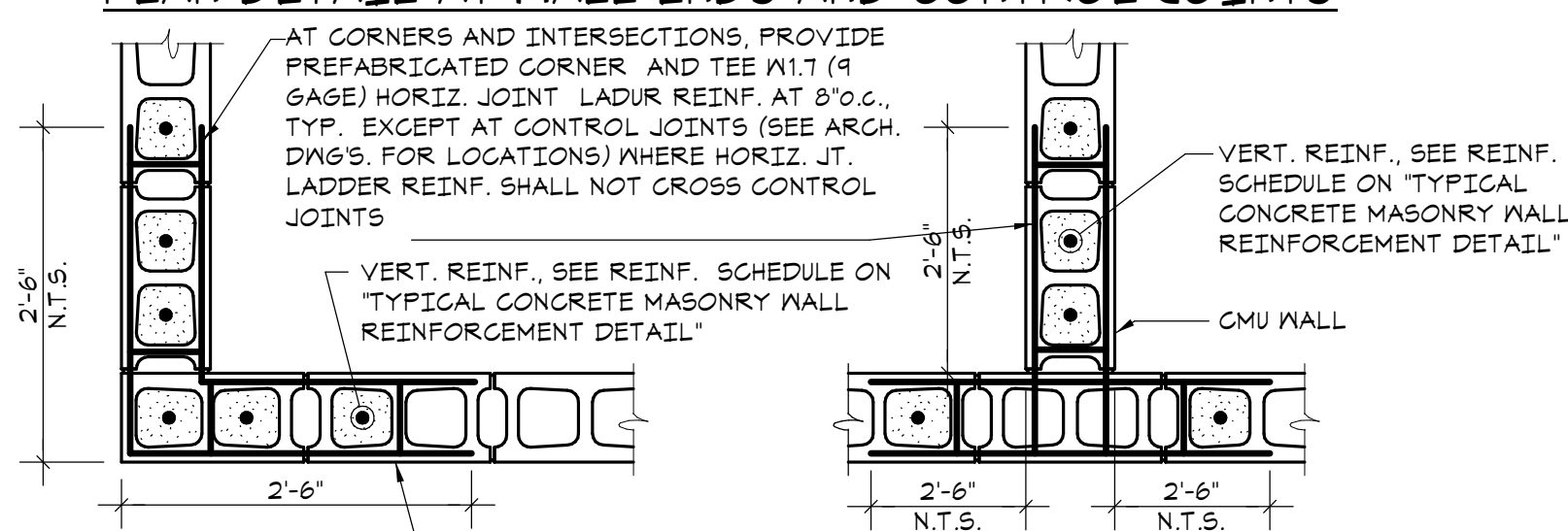
6 TYPICAL FOUNDATION DETAIL FOR MASONRY WALLS AT WALL OPENINGS



PLAN DETAIL AT COLUMN

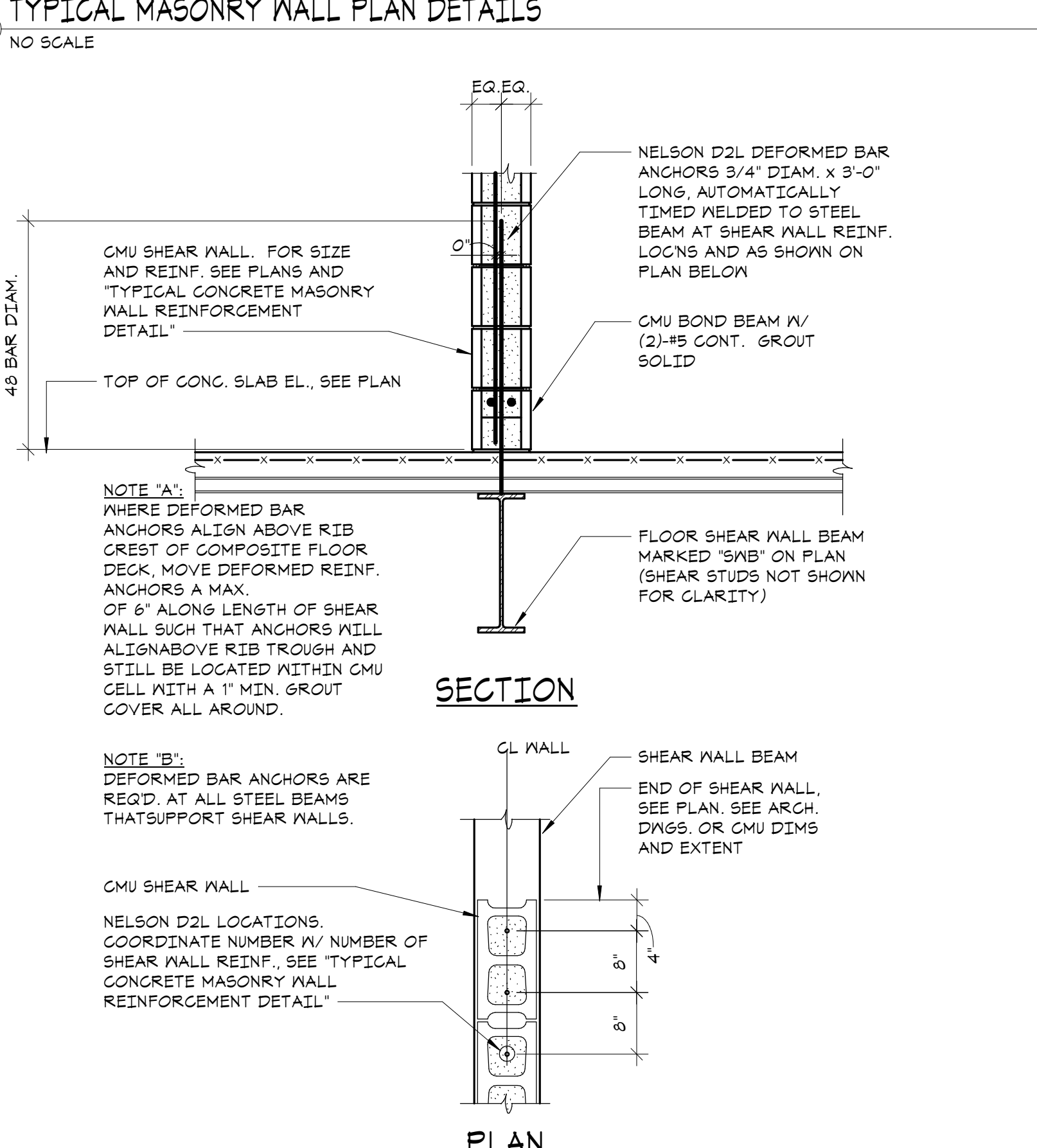


PLAN DETAIL AT WALL ENDS AND CONTROL JOINTS

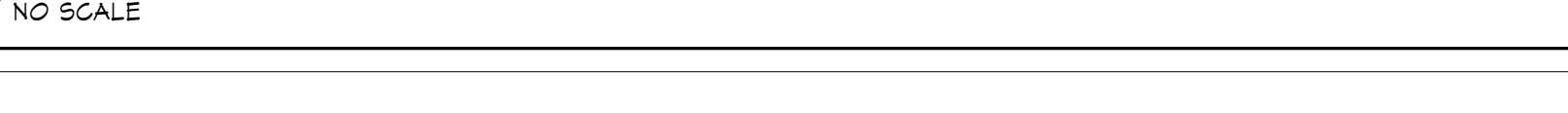


PLAN DETAIL AT CORNERS AND INTERSECTIONS

4 TYPICAL MASONRY WALL PLAN DETAILS



7 TYPICAL BASE ANCHORAGE DETAIL FOR SHEAR WALLS ON ELEVATED SLABS AND BEAMS



Key Plan

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3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT
No.	Date	Issue

MASONRY SCHEDULE AND TYPICAL DETAILS

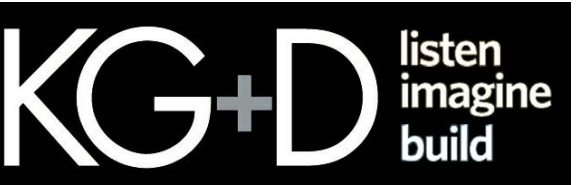
Job No.	20229.00	Date	2020-06-01
Scale	AS NOTED	Drawn / Checked	JM / EM
Sheet Number			

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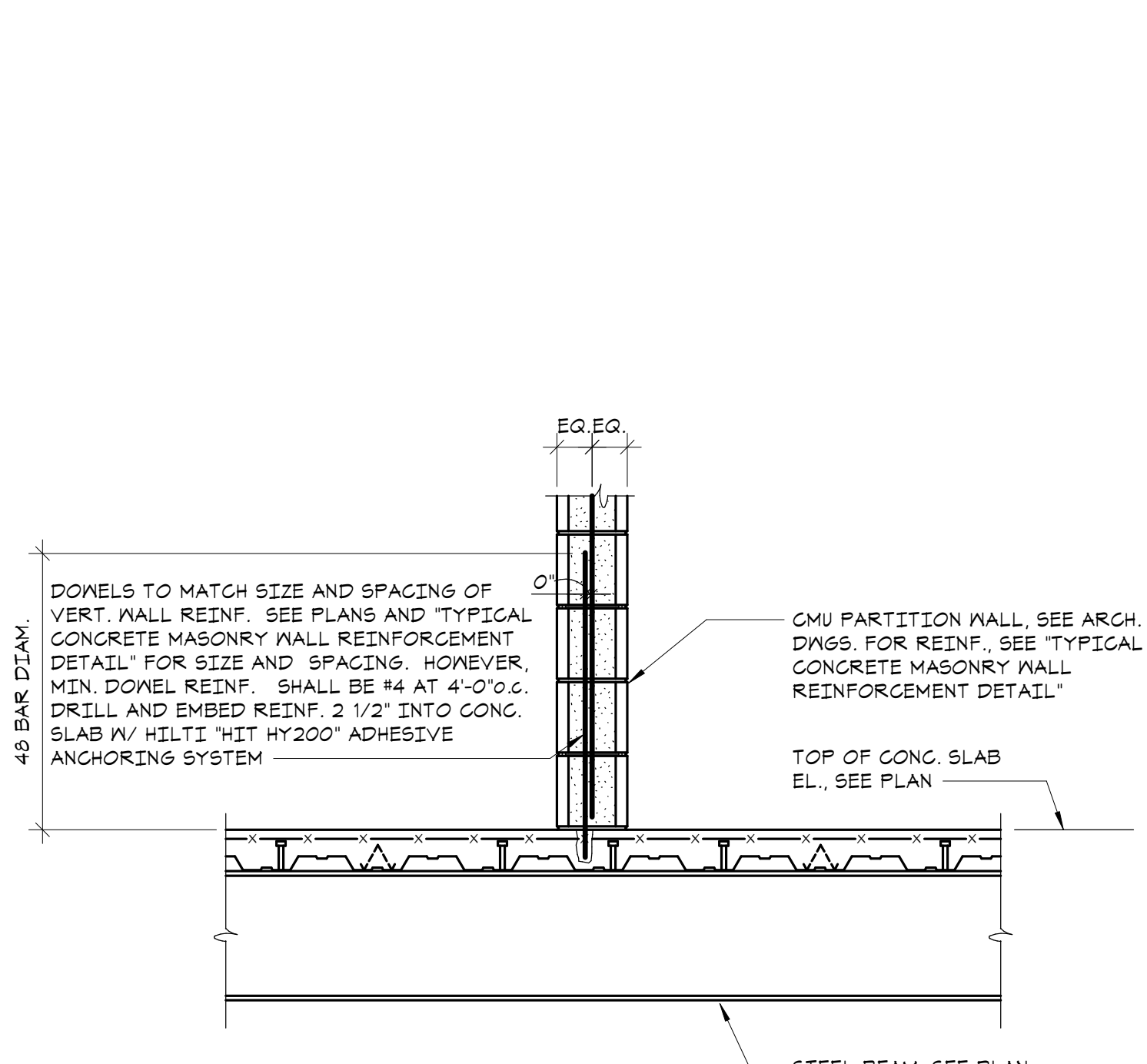


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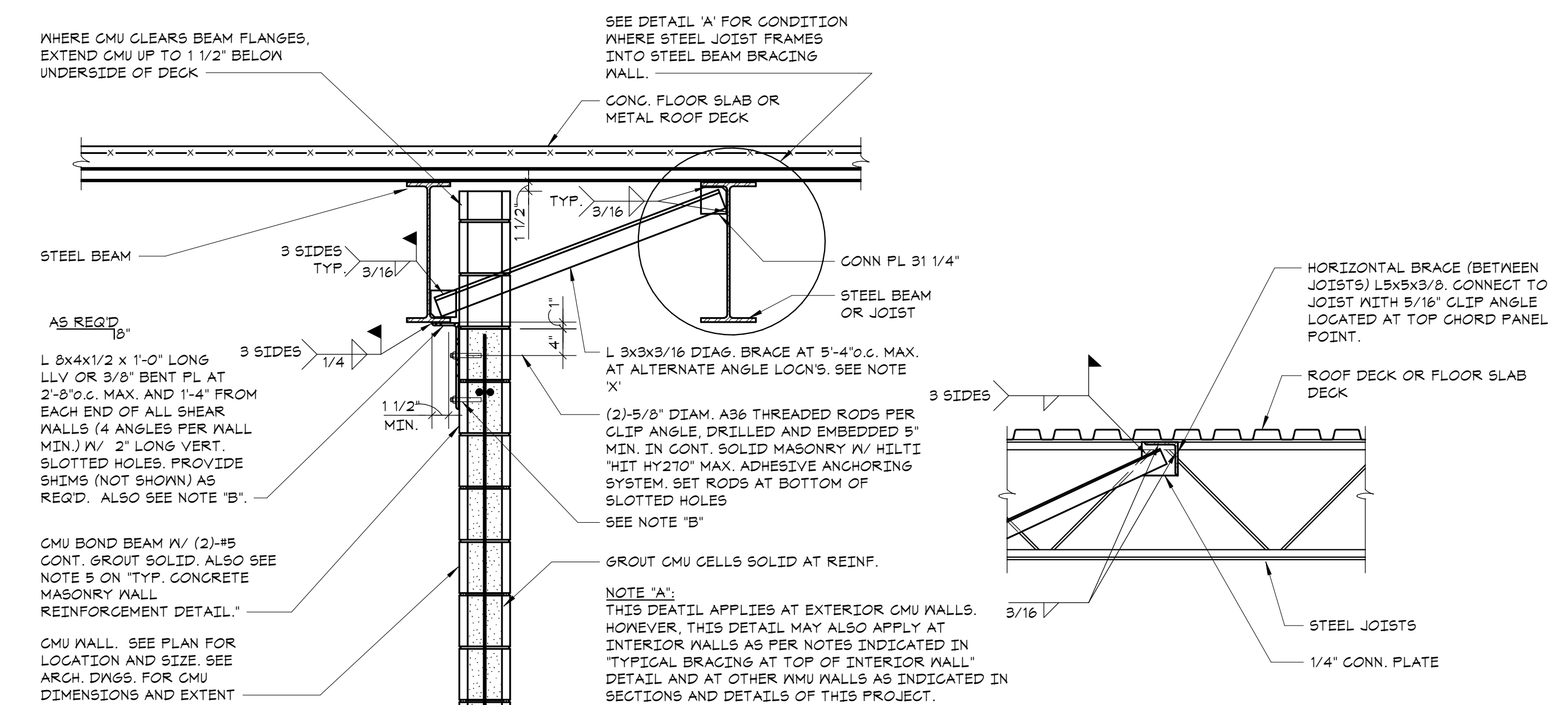
CONSTRUCTION DOCUMENTS



NOTE 'A':
THIS DETAIL APPLIES AT INT. CMU WALLS WHICH ARE NOT SHEAR WALLS AND ARE NON-LOAD BEARING. SEE ARCH. DWGS. FOR SIZE, LENGTH, EXTENT, AND LOCATION OF INT. CMU WALLS.

NOTE 'B':
ALTERNATE TO CAST DOWELS: PROVIDE DRILLED DOWELS (NOT SHOWN). MATCH SIZE AND SPACING OF VERTICAL WALL REINF. MAX. SPACING 4'-0" O.C. DRILL AND EMBED DOWELS 'B' INTO CONG. WITH HILTI "RE-BOSS" ADHESIVE ANCHORING SYSTEM OR SIMPSON "SET-XP" ADHESIVE ANCHORING SYSTEM.

① TYPICAL BASE ANCHORAGE DETAIL FOR PARTITION WALLS ON ELEVATED SLABS
NO SCALE



NOTE 'A':
THIS DETAIL APPLIES AT EXTERIOR CMU WALLS. HOWEVER, THIS DETAIL MAY ALSO APPLY AT INTERIOR WALLS AS PER NOTES INDICATED IN "TYPICAL BRACING AT TOP OF INTERIOR WALL" DETAIL AND AT OTHER CMU WALLS AS INDICATED IN SECTIONS AND DETAILS OF THIS PROJECT.

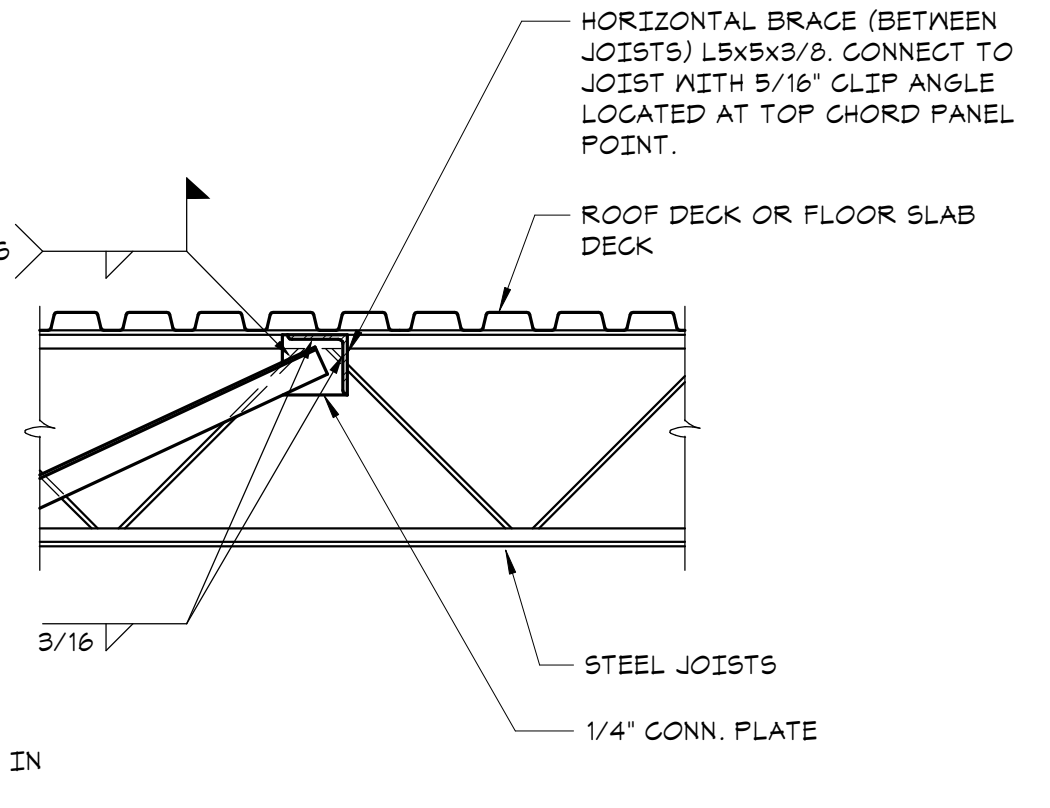
NOTE 'B':
AT INTERIOR WALLS ONLY. AT TOP COURSE, SOLID CMU BLOCK 1/4" FULL MORTAR COVERAGE MAY BE USED IN LIEU OF GROUTED SOLID CMU BLOCK. IN THIS CASE EXTEND VERT. LEG OF BENT PLATE AS REQ'D AND BOLT TO BOND BEAM IN LIEU OF TOP COURSE.

NOTE 'C':
WHERE ARCH. DWGS. INDICATE BEAM WEB TO BE FILLED 1/4" CMU, PROVIDE MASONRY ANCHORS AS PER GENERAL NOTES.

NOTE 'X':
DIAG. BRACE NOT REQUIRED WHERE STEEL BEAMS FRAME INTO WEB OF STEEL BEAM BRACING WALL.

VARIATION AT CMU WALL UNDER BEAM

② TYPICAL CONNECTION DETAIL AT TOP OF EXTERIOR WALLS
NO SCALE



③ TYPICAL MASONRY LINTELS IN NON-LOAD BEARING WALLS DETAILS
NO SCALE

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Professional Seal

3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

No. Date Issue

**MASONRY
TYPICAL DETAILS**

Job No. 20209.00 Date 2020-06-01
Scale AS NOTED Drawn / Checked JM / EM

Sheet Number
S402

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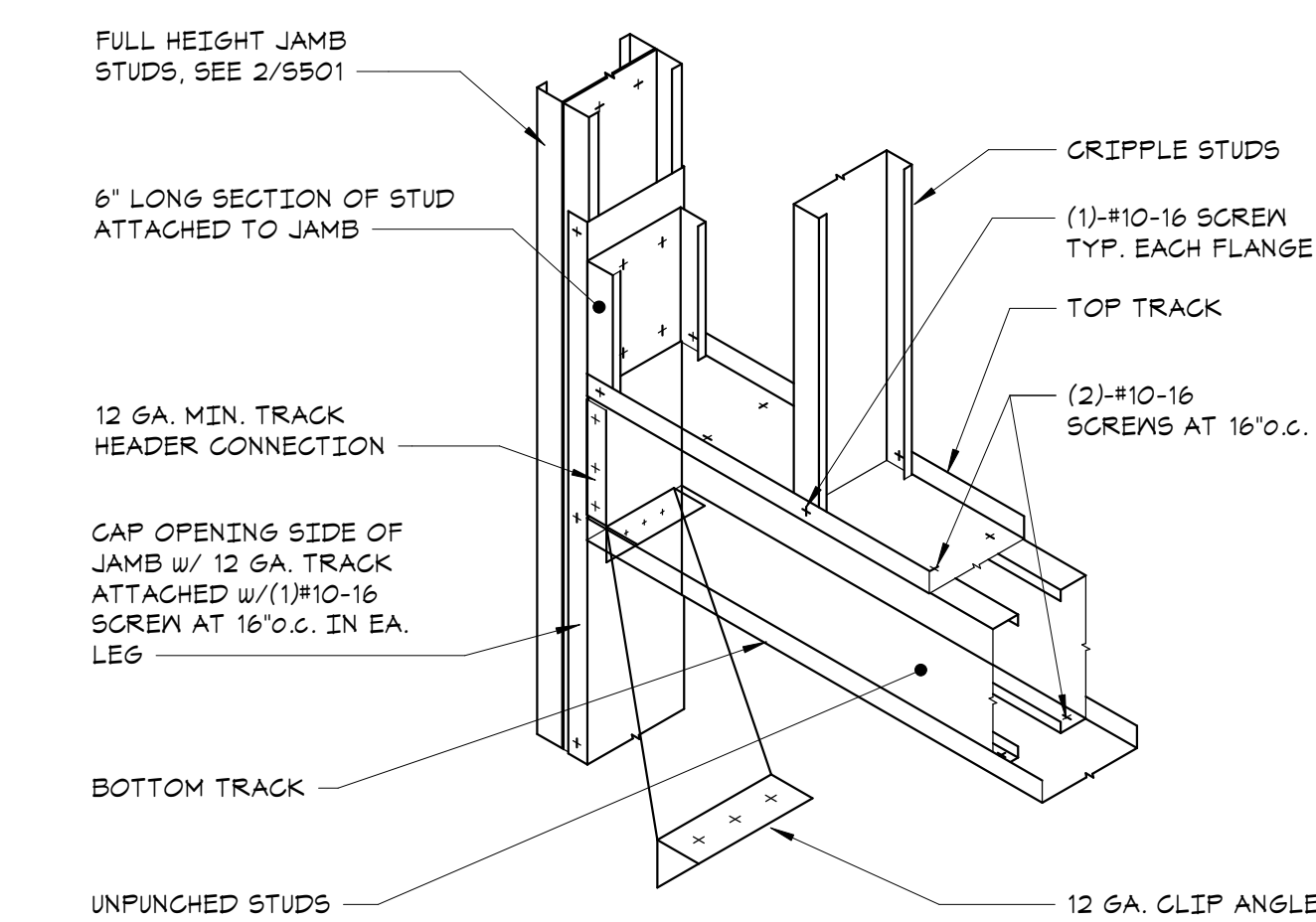
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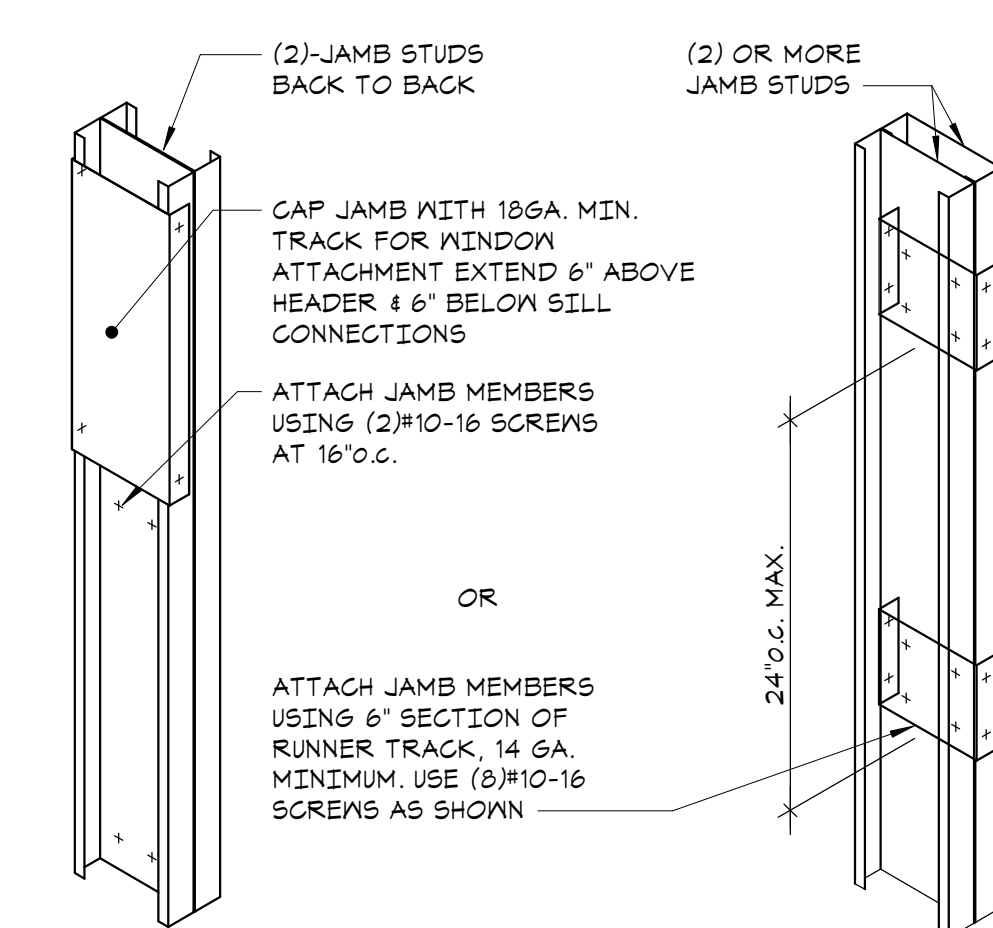
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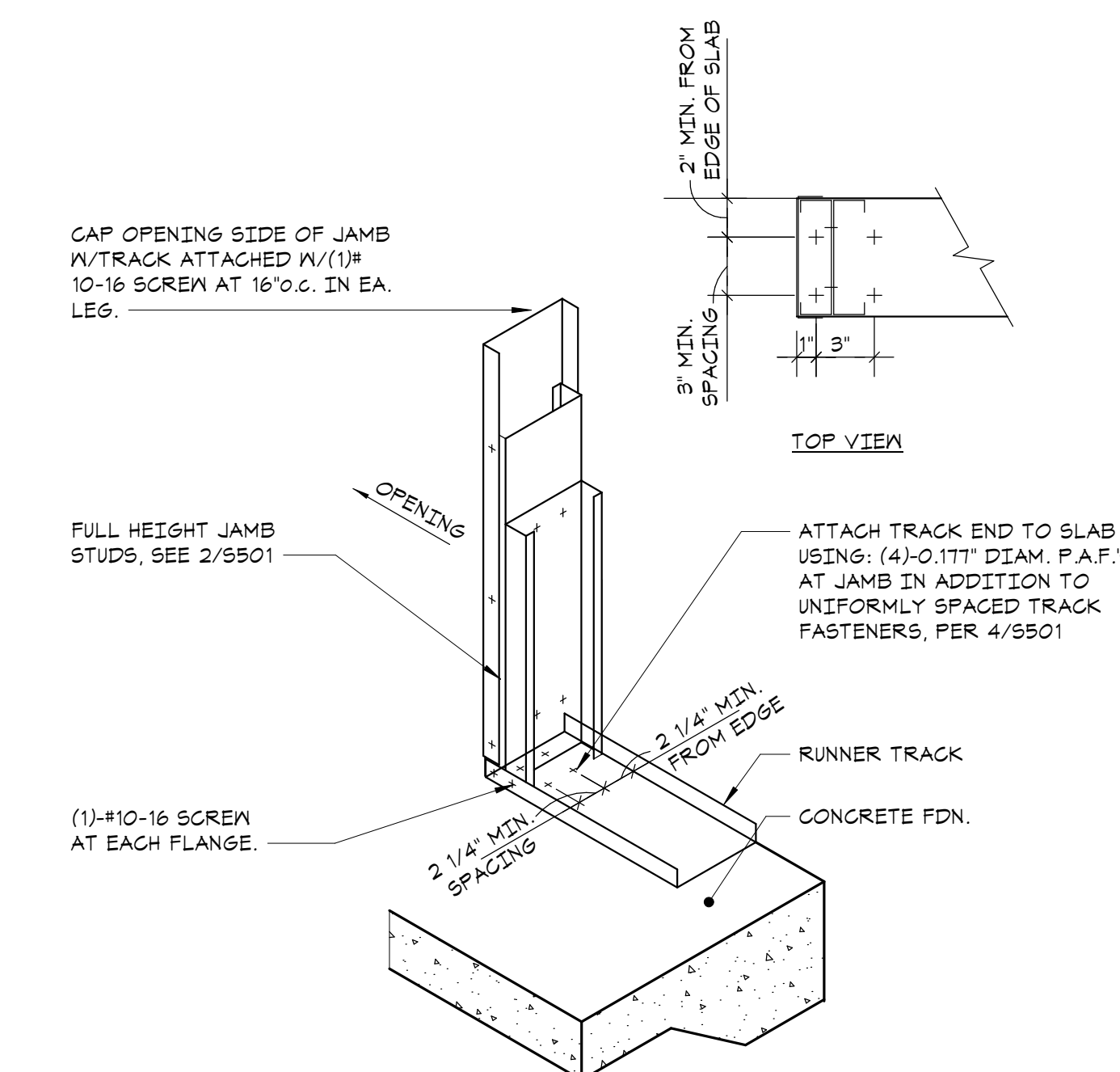
CONSTRUCTION DOCUMENTS



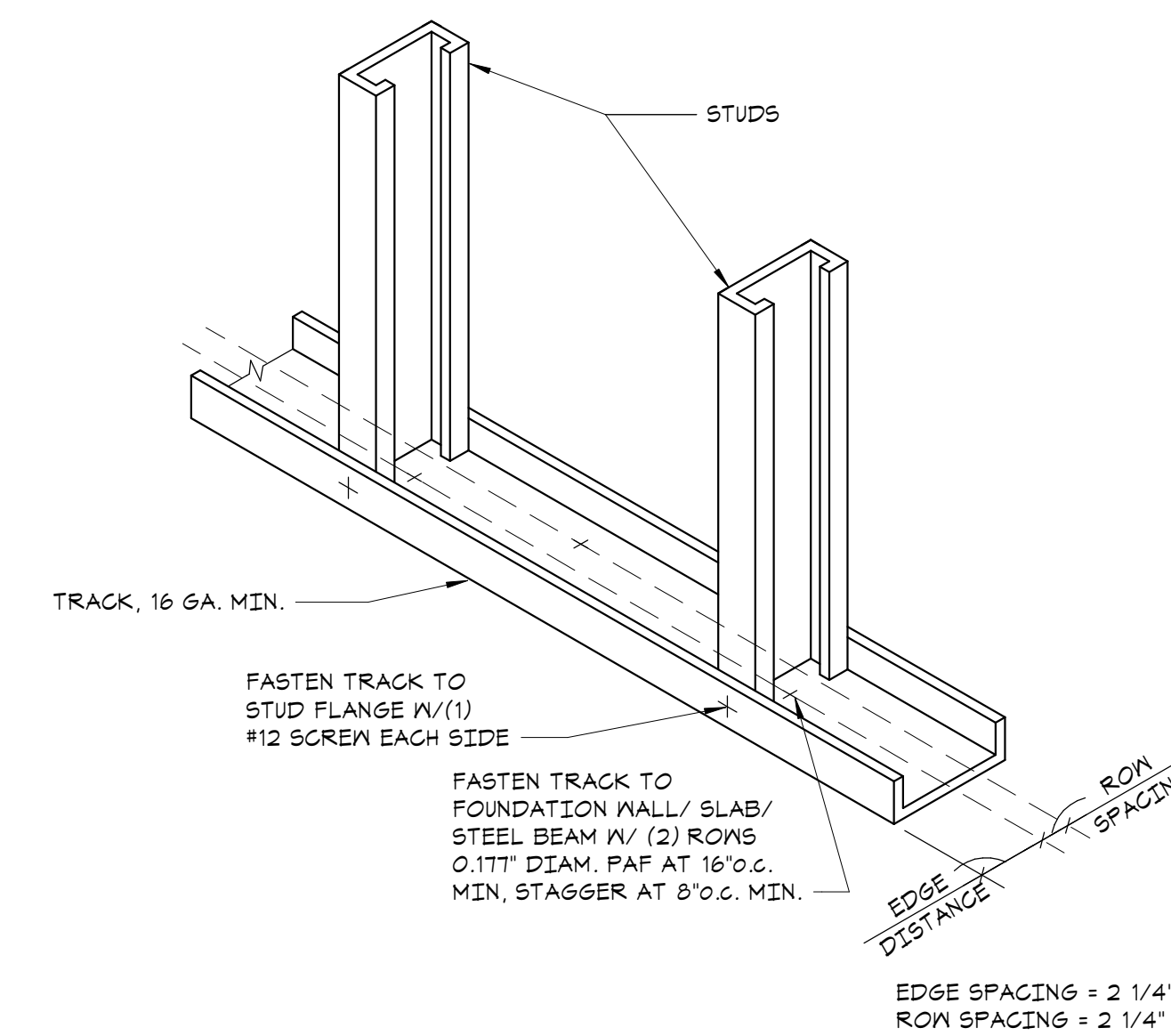
1 TYPICAL BOXED HEADER DETAIL
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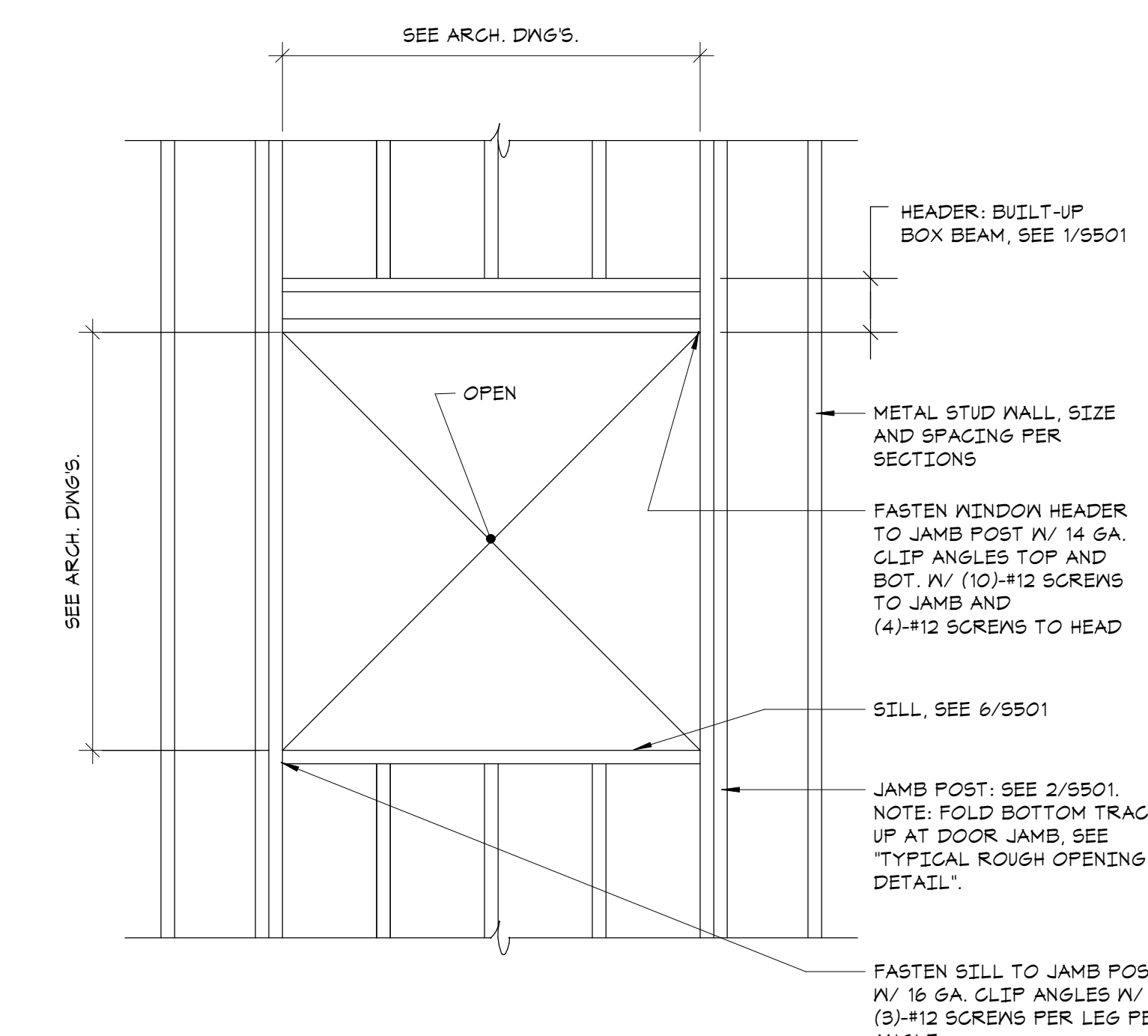
2 TYPICAL BUILT-UP JAMB DETAIL
NO SCALE



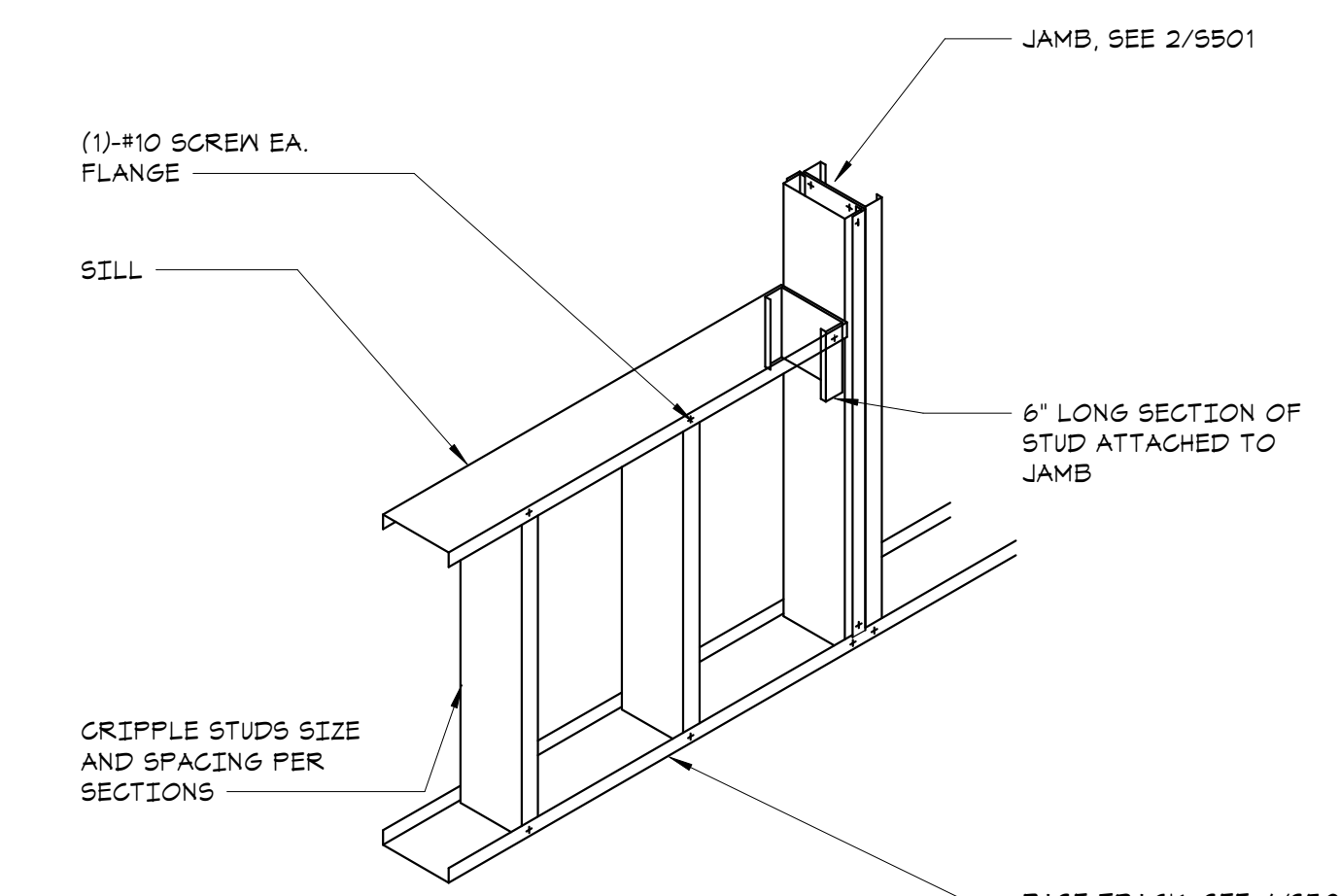
3 TYPICAL JAMB ANCHORAGE DETAIL
NO SCALE



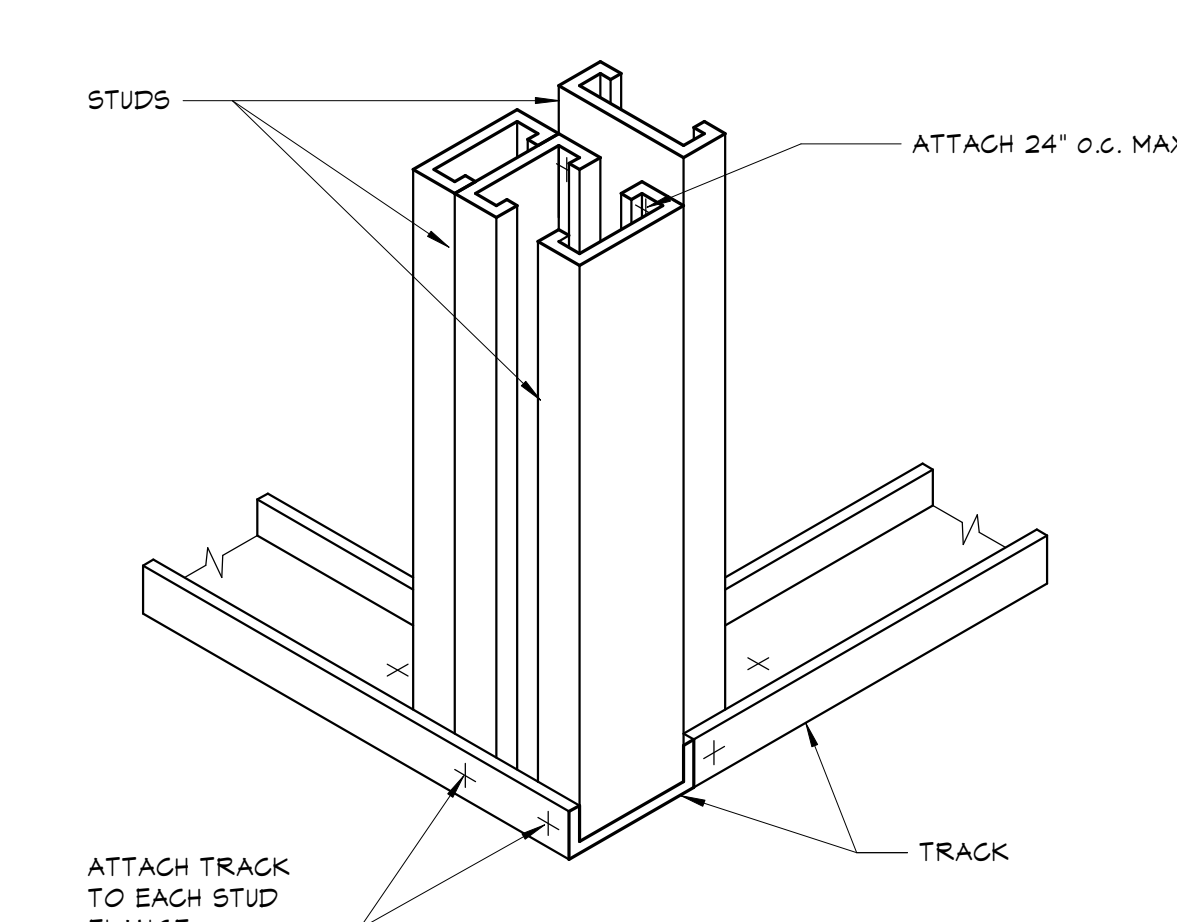
4 TYPICAL COLD FORMED STUD WALL DETAIL
NO SCALE



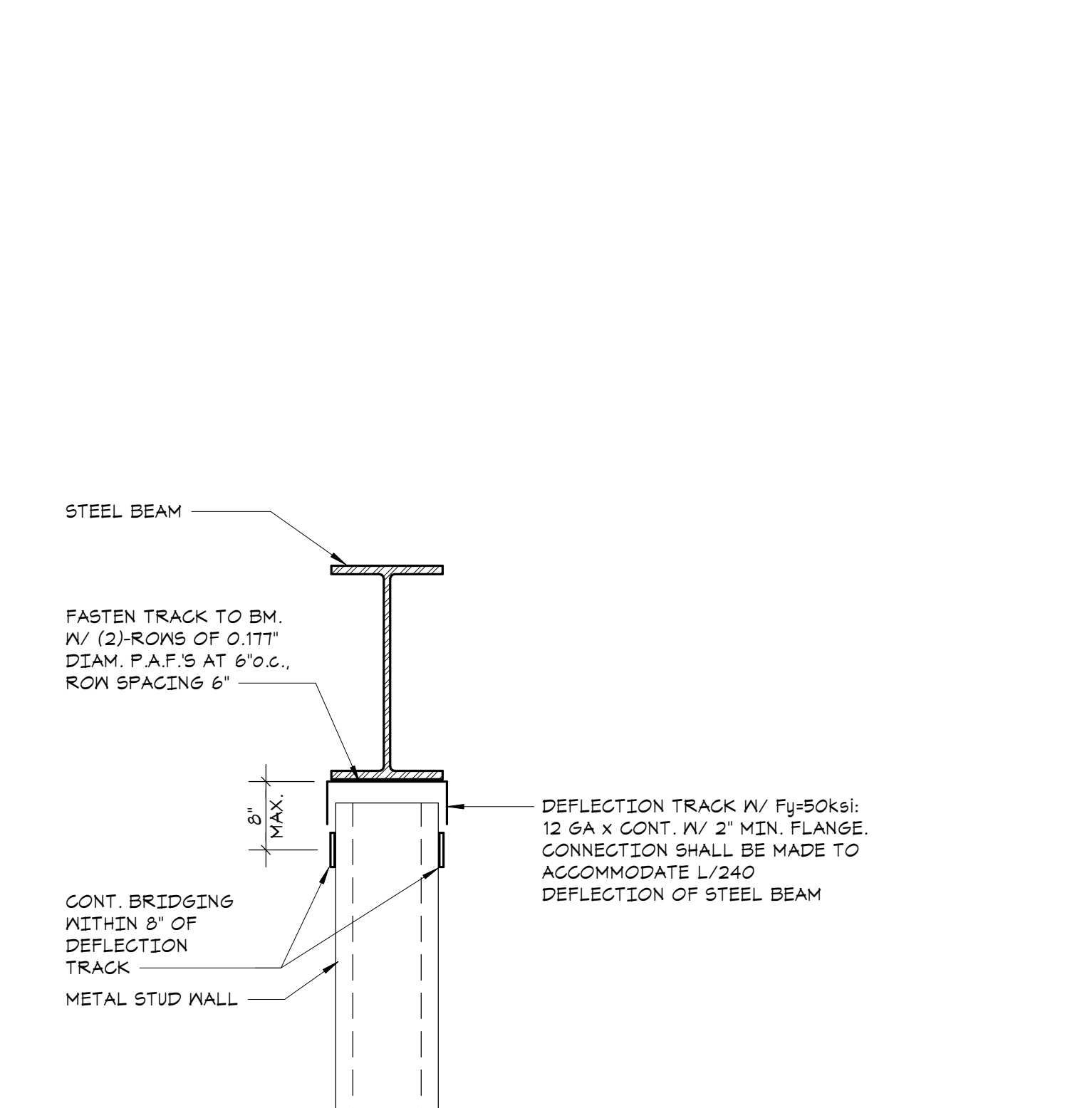
5 TYPICAL STUD WALL OPENING
NO SCALE



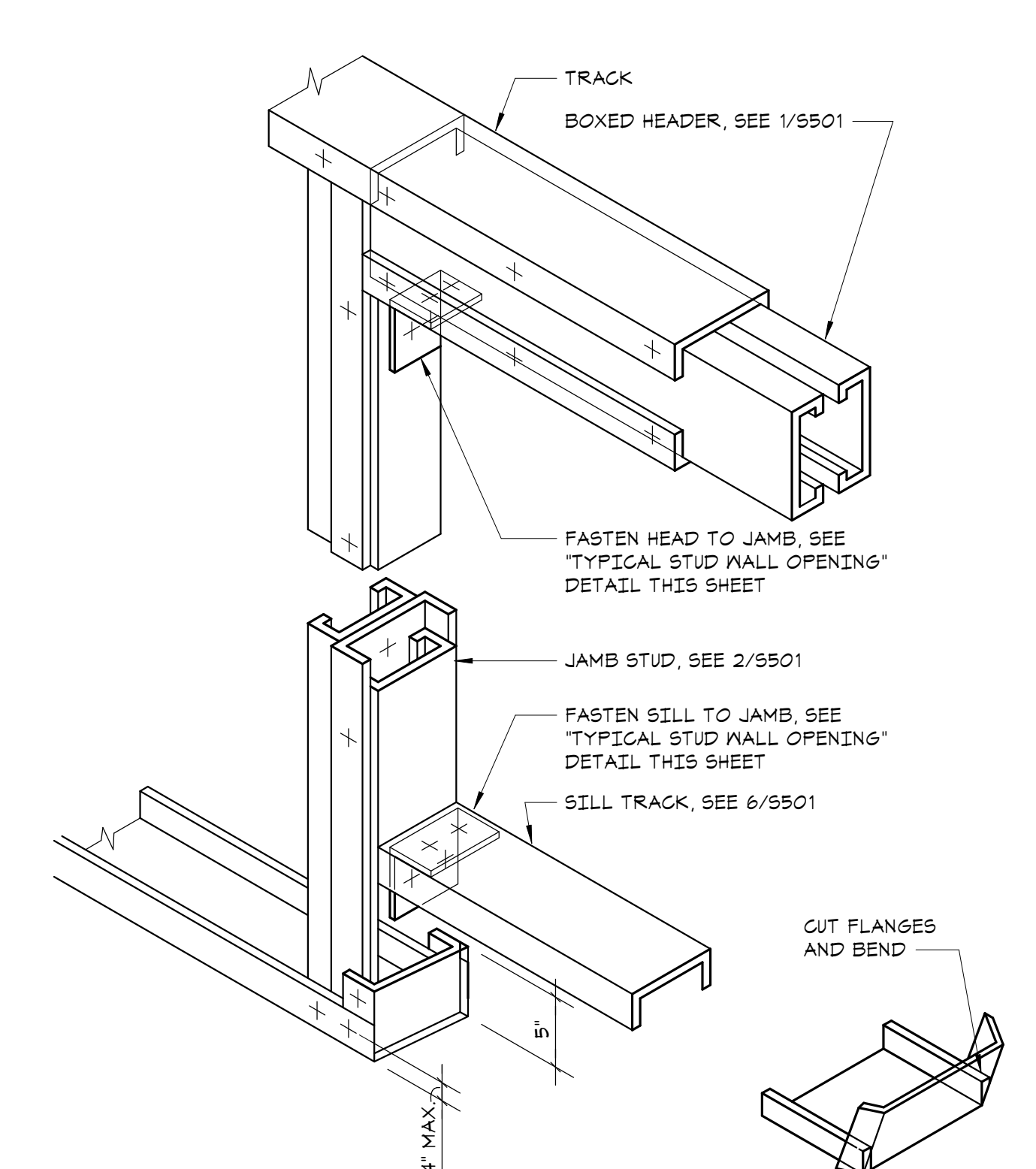
6 TYPICAL SILL DETAIL
NO SCALE



7 TYPICAL STUD WALL CORNER DETAIL
NO SCALE



8 TYPICAL DEFLECTION TRACK DETAIL
NO SCALE



9 TYPICAL ROUGH OPENING DETAIL
NO SCALE

COLD FORMED METAL FRAMING SCHEDULE			
TYPICAL FRAMING			
EXTERIOR 6" WALLS	<ul style="list-style-type: none"> 600S162-54 AT 16" O.C. DOUBLE 600S162-54 AT 16" O.C. WITHIN 10'-0" OF ALL BUILDING CORNERS 600T125-54 TRACK 		
OPENINGS			
R.O. WIDTH	HEADER	SILL	JAMB
3'-6" OR LESS	(2)-600T125-54 + (1)-600S162-54	600T125-54	(2)-600S162-54
3'-6" TO 5'-0"	(2)-600T125-54 + (2)-600S162-54	(2)-600T125-54 + (1)-600S162-54	(2)-600S162-54
5'-0" TO 8'-0"	(2)-600T125-54 + (3)-600S162-54	(2)-600T125-54 + (2)-600S162-54	(3)-600S162-54
8'-0" TO 12'-0"	(2)-600T125-54 + (3)-600S162-54	(2)-600T125-54 + (2)-600S162-54	(3)-600S200-54

- SHAPE DESIGNATION BASED ON 'INDUSTRY STANDARD NOMENCLATURE' (REFER TO SSMA.COM)
- ALL BUILT-UP MEMBERS TO BE FASTENED TOGETHER WITH #12 SCREWS AT 12" O.C.
- ALL BUILT-UP MEMBERS TO BE FASTENED TOGETHER WITH #12 SCREWS AT 12" O.C.
- ALL MEMBERS ARE TO BE CONTINUOUS, TRACK AND STUDS SHALL NOT BE SPLICED.

10 COLD-FORMED FRAMING SCHEDULE
NO SCALE

Key Plan

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3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

COLD-FORMED FRAMING SCHEDULES AND TYPICAL DETAILS

Job No.	20029.00	Date	2020-06-01
Scale	AS NOTED	Drawn / Checked	JM / EM

Sheet Number
S501

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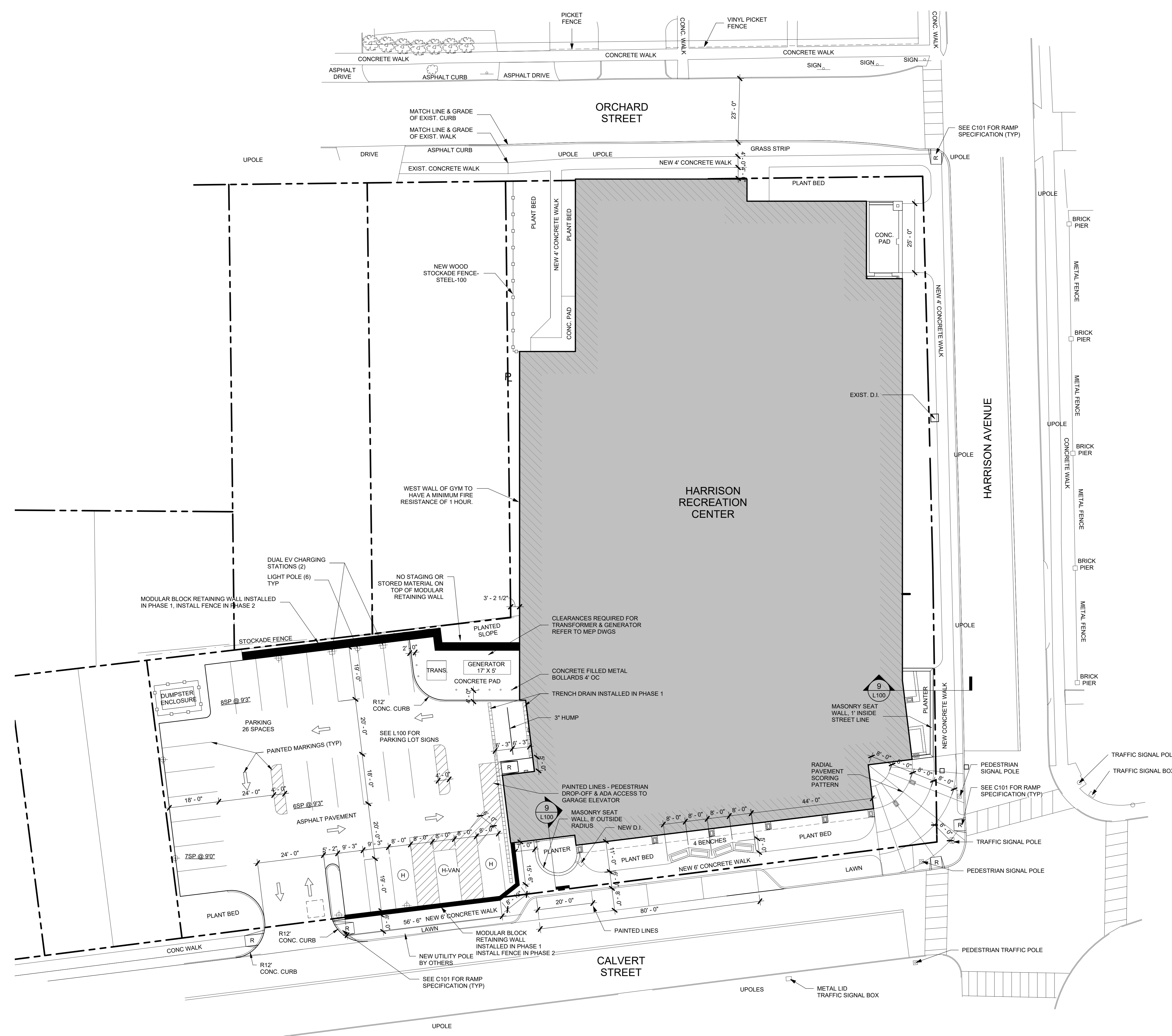
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No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

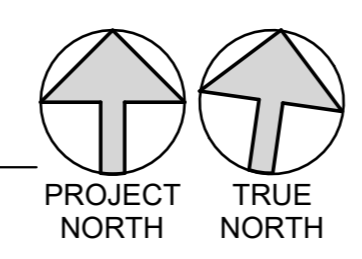
Sheet Title

**ARCHITECTURAL
SITE PLAN**

Job No.	Date
2020-1005	03/31/2020
Scale	Drawn / Checked
AS NOTED	- -
Sheet Number	

A101

1 ARCHITECTURAL SITE PLAN
1/16" = 1'-0"



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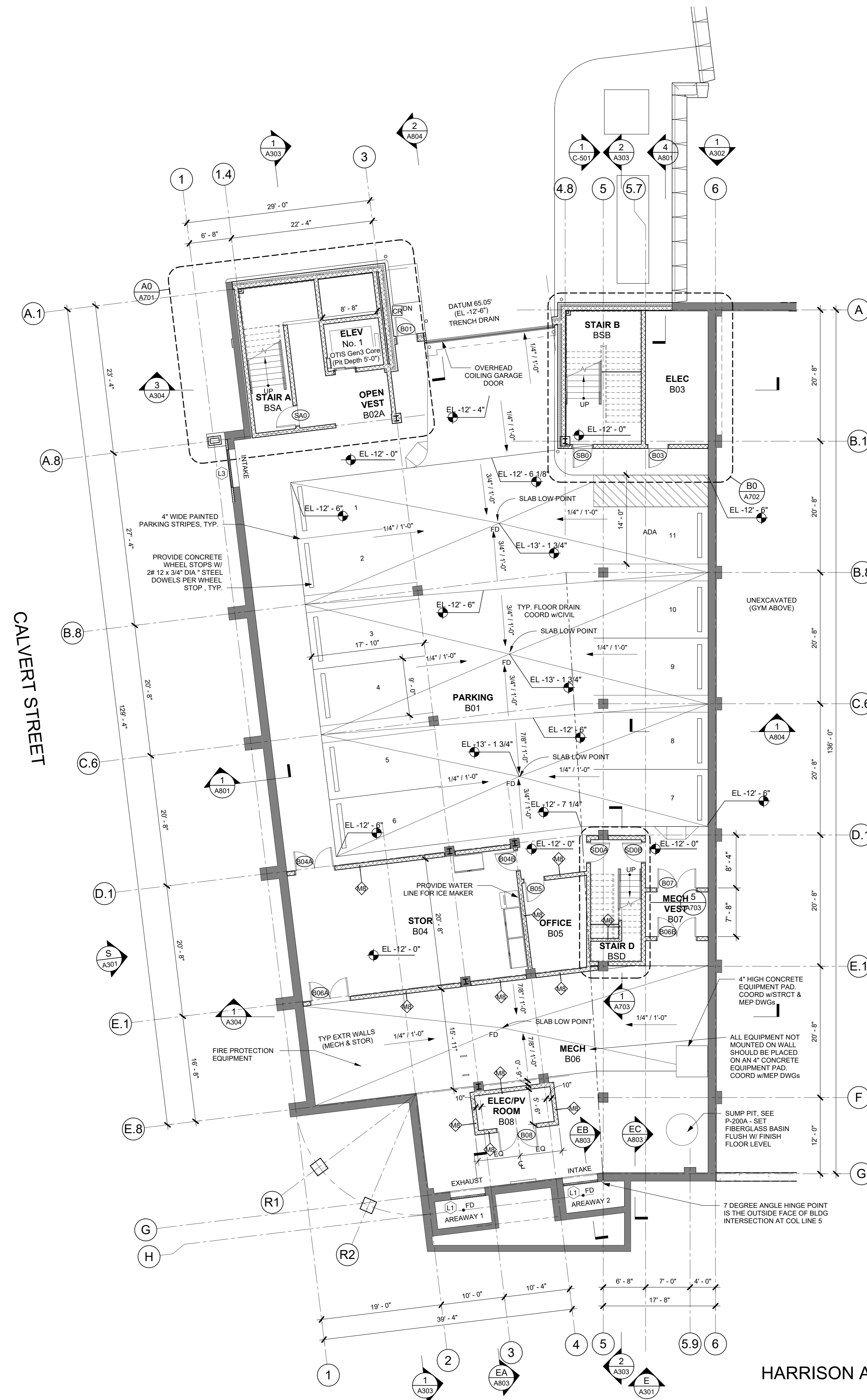
CONSTRUCTION DOCUMENTS

PLAN GENERAL NOTES

- DIMENSIONS SHOWN ARE TO FACE OF GYPSUM OR FACE OF CMU. DIMENSIONS SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
- PROVIDE SUPPLEMENTAL BLOCKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: GRAB BARS, SHELVING, CABINETS, SIGNAGE, TOILET ROOM ACCESSORIES, AV EQUIPMENT, DISPLAY BOARDS, ETC. THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.
- FACE OF ADJACENT WALL TO INSIDE EDGE OF DOOR FRAME IS 6" (TYPICAL) U.N.O.
- SEE FINISH SCHEDULE FOR MATERIALS & FINISHES.
- ABOVE ALL INTERIOR OPENINGS, PROVIDE ADJACENT PARTITION TYPE U.N.O.
- SEE ELEVATIONS FOR ADDITIONAL WINDOWS THAT MAY NOT BE SHOWN IN FLOOR PLANS.

FLOOR PLAN LEGEND

- NEW PARTITION AS INDICATED
- NEW GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- FEC - FIRE EXTINGUISHER CABINET
- NEW DOOR, DOOR NUMBER
- WALL TYPE
- FRAME TYPE



1 LOWER LEVEL & PARKING PLAN
1/8" = 1'-0"

HARRISON AVENUE

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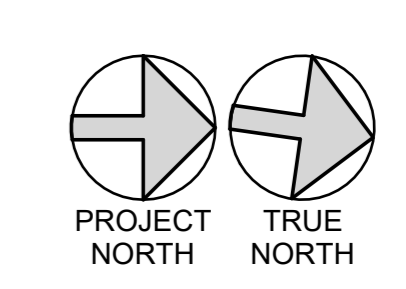
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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

**LOWER LEVEL
PARKING PLAN**

Job No.	2020-1005	Date	03/31/2020
Scale	AS NOTED	Drawn / Checked	- / -
Sheet Number	A201		

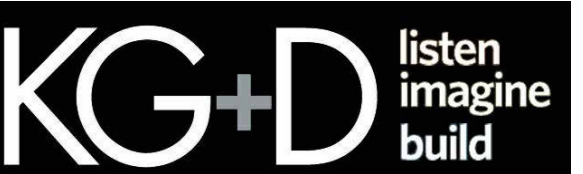


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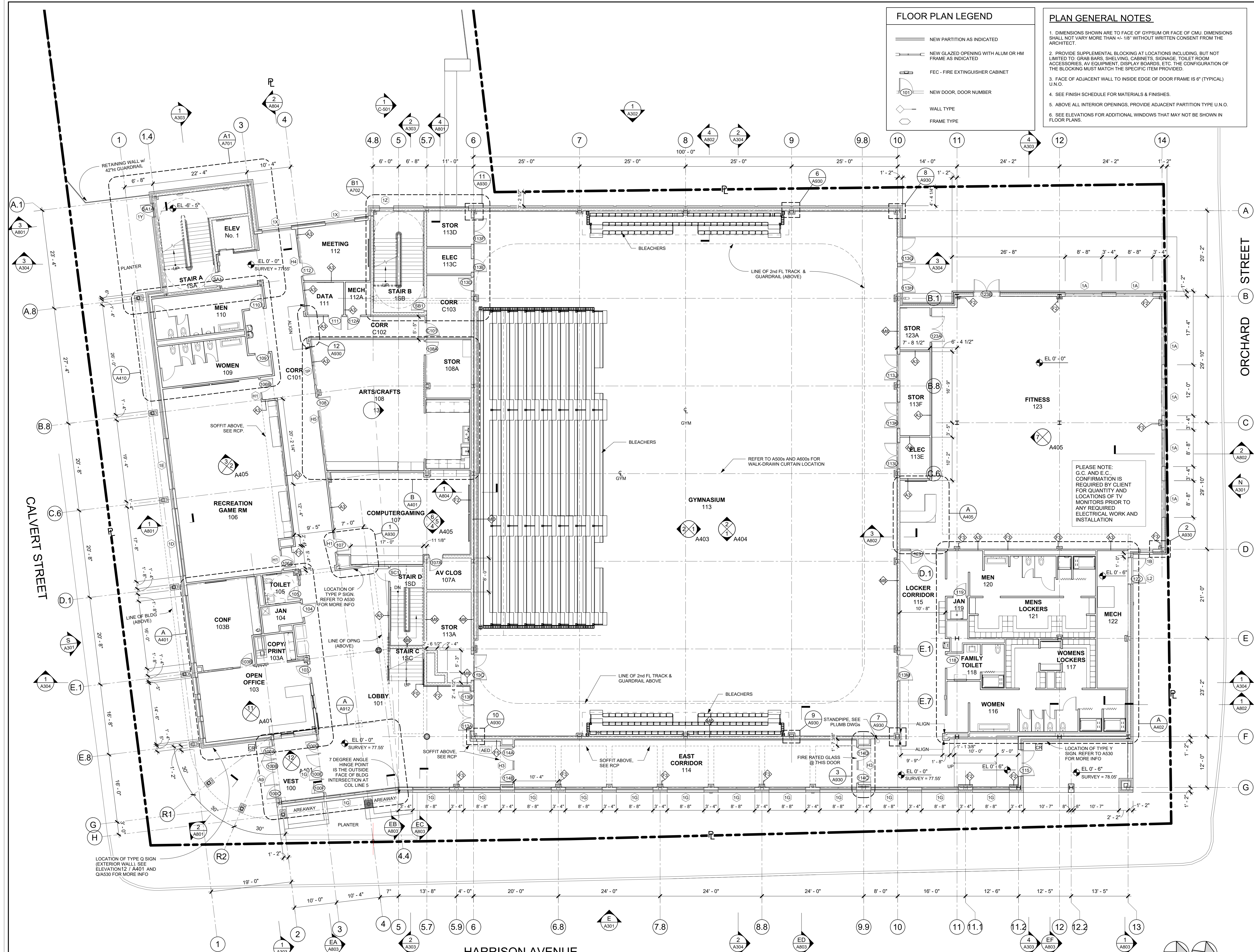
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CONSTRUCTION DOCUMENTS

FLOOR PLAN LEGEND

- NEW PARTITION AS INDICATED
- NEW GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- FEC - FIRE EXTINGUISHER CABINET
- NEW DOOR, DOOR NUMBER
- WALL TYPE
- FRAME TYPE

- PLAN GENERAL NOTES**
- DIMENSIONS SHOWN ARE TO FACE OF GYPSUM OR FACE OF CMU. DIMENSIONS SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
 - PROVIDE SUPPLEMENTAL BLOCKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: GRAB BARS, SHELVING, CABINETS, SIGNAGE, TOILET ROOM ACCESSORIES, AV EQUIPMENT, DISPLAY BOARDS, ETC. THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.
 - FACE OF ADJACENT WALL TO INSIDE EDGE OF DOOR FRAME IS 6" (TYPICAL) U.N.C.
 - SEE FINISH SCHEDULE FOR MATERIALS & FINISHES.
 - ABOVE ALL INTERIOR OPENINGS, PROVIDE ADJACENT PARTITION TYPE U.N.C.
 - SEE ELEVATIONS FOR ADDITIONAL WINDOWS THAT MAY NOT BE SHOWN IN FLOOR PLANS.



PLEASE NOTE: G.C. AND E.C. CONFIRMATION IS REQUIRED BY CLIENT FOR QUANTITY AND LOCATIONS OF TV MONITORS PRIOR TO ANY REQUIRED ELECTRICAL WORK AND INSTALLATION

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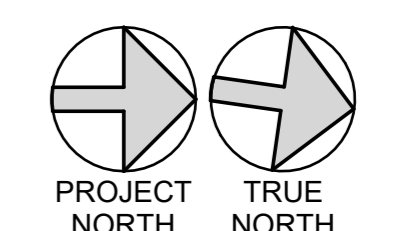
No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

1st FLOOR PLAN

Job No.	2020-1005	Date	03/31/2020
Scale	AS NOTED	Drawn / Checked	- / -
Sheet Number	A202		

1 1st FLOOR PLAN
1/8" = 1'-0"



HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528



FLOOR PLAN LEGEND

- NEW PARTITION AS INDICATED
- NEW GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- FEC - FIRE EXTINGUISHER CABINET
- NEW DOOR, DOOR NUMBER
- WALL TYPE
- FRAME TYPE

- ### PLAN GENERAL NOTES
- DIMENSIONS SHOWN ARE TO FACE OF GYPSUM OR FACE OF CMU. DIMENSIONS SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
 - PROVIDE SUPPLEMENTAL SCHEDULING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: GRAB BARS, SHELVING, CABINETS, SIGNAGE, TOILET ROOM ACCESSORIES, AV EQUIPMENT, DISPLAY BOARDS, ETC. THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.
 - FACE OF ADJACENT WALL TO INSIDE EDGE OF DOOR FRAME IS 6" (TYPICAL) U.N.O.
 - SEE FINISH SCHEDULE FOR MATERIALS & FINISHES.
 - ABOVE ALL INTERIOR OPENINGS, PROVIDE ADJACENT PARTITION TYPE U.N.O.
 - SEE ELEVATIONS FOR ADDITIONAL WINDOWS THAT MAY NOT BE SHOWN IN FLOOR PLANS.

CONSTRUCTION DOCUMENTS

GENERAL NOTES

- 101 DENOTES DOOR NUMBER SEE A911 FOR HARDWARE SET & INFO
- RW DENOTES RESCUE WINDOW SEE A514 & SPECS FOR MORE INFO
- DENOTES 1hr OR NON-RATED WALL SEE A901 FOR WALL INFO
- DENOTES 2hr RATED WALL SEE A901 FOR WALL INFO
- DENOTES WALL TYPE & FIRE RATING, (WHERE SHOWN) SEE A901
- DENOTES HOLLOW METAL OR ALUM. FRAME - W/SIDELITE OR TRANSOM (SEE A902 & A903)
- FINISH SCHEDULE - SEE A501
- ALL CORRIDOR WALLS SHALL BE "TYPE 5" ON A901 (EVEN IF NOT TAGGED) U.N.O.
- UNTAGGED WALLS SHALL BE CONSIDERED "TYPE 1" ON A901, EXCEPT THAT CORRIDOR WALLS SHALL BE "TYPE 5"
- 1st & 2nd FL CORRIDOR WALLS SHALL HAVE WALL TILE PER THE FINISH SCHEDULE ON A501. REFER TO WALL "TYPE 5" ON A901 IN ADDITION TO THE WALL "TYPE 5" INDICATED WHICH IS TYPICAL (U.N.O.)
- AT THE BUILDING INTERIOR, ALL STEEL COLUMNS SHALL BE ENCASED W/ WALL TYPE F2 (FURRING) EVEN IF NOT SHOWN
- DIMENSIONS SHOWN FOR INTERIOR WALLS ARE: FACE OF CMU OR FACE OF CMU
- FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS 4" (TYP) U.N.O. (SEE DETAILS A, B & C ON A902)
- IT IS A REQUIREMENT OF THIS PROJECT THAT ALL WINDOW, DOOR, LOUVER AND ALL OTHER OPENINGS, PENETRATIONS INCLUDING DECK FLUTES IN THE BUILDING EXTERIOR SHALL HAVE THE SURROUNDING GAPS FOR SHIMS & LEVELING FILLED WITH BATT INSULATION STRIPS TO FORM A COMPLETE AIR INFILTRATION BARRIER. IN MANY CASES SMALL BITS & PIECES OF INSULATION WILL REQUIRE BEING FITTED INTO THESE GAPS AT HEAD, JAMBS & SILLS.
- 14A PRIOR TO CLOSURE OF SURROUNDING CONSTRUCTION THE G.C. SHALL PROVIDE THE ARCHITECT WITH ADEQUATE NOTICE FOR REVIEW OF ALL SUCH CONDITIONS.
- 14B NON-EXPANDING SPRAY FOAM FILLER MAY BE PERMISSIBLE FOR SEALING THE BUILDING PERIMETER, IF APPROVED BY THE ARCHITECT.

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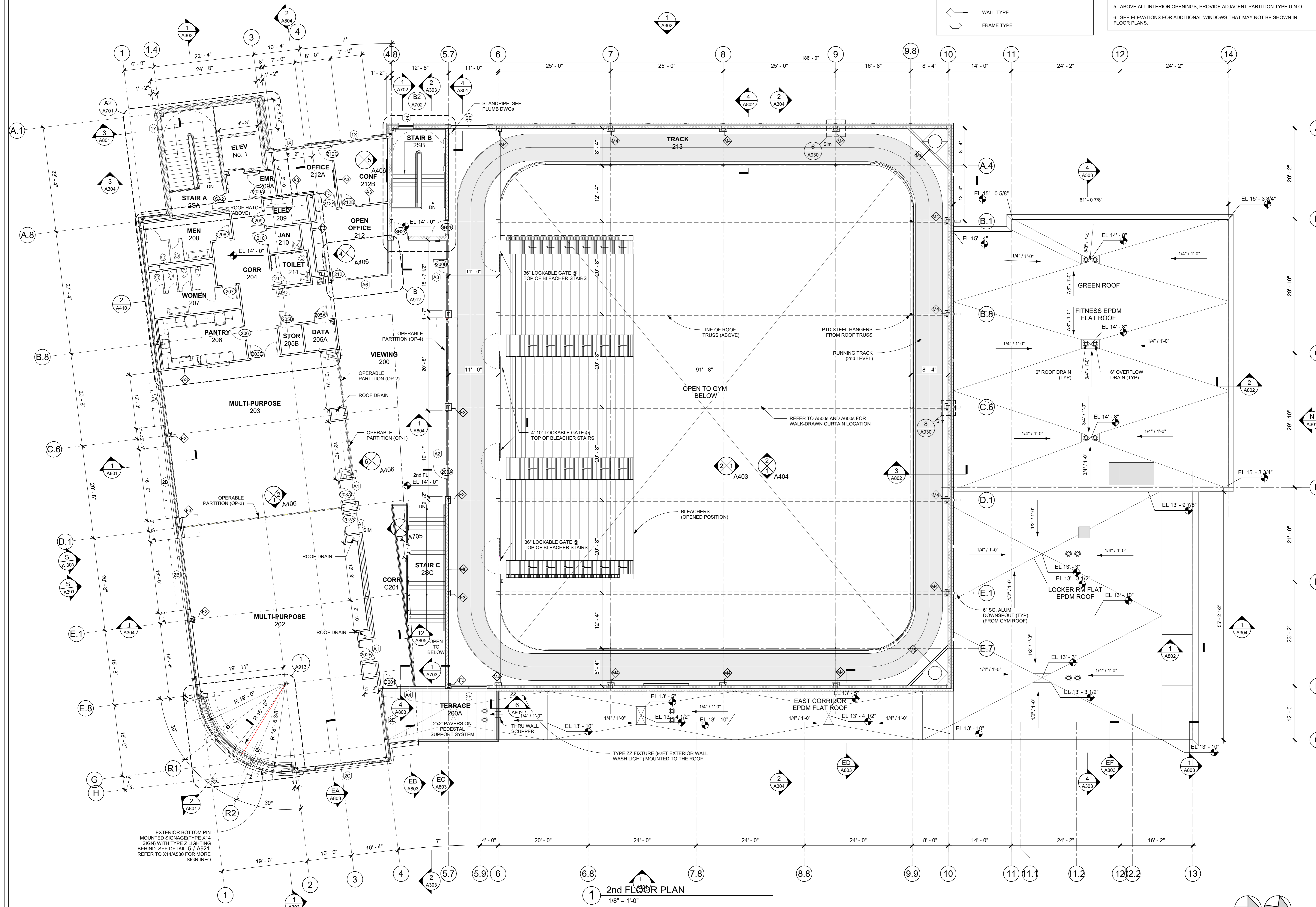
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No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

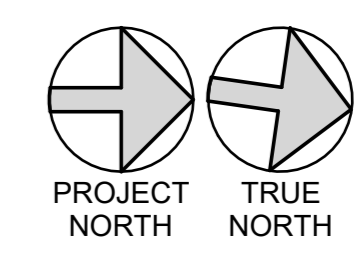
Professional Seal

2nd FLOOR PLAN

Job No.	2020-1005	Date	01/10/19
Scale	AS NOTED	Drawn / Checked	- / -
Sheet Number	A203		

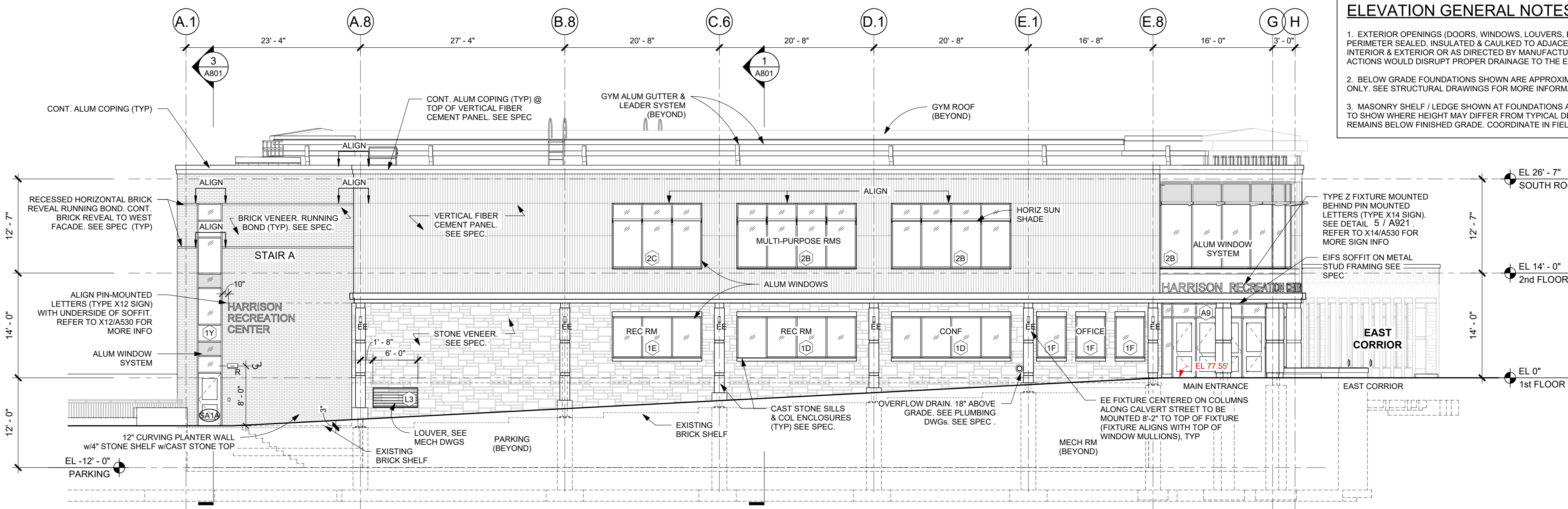


2nd FLOOR PLAN
1/8" = 1'-0"

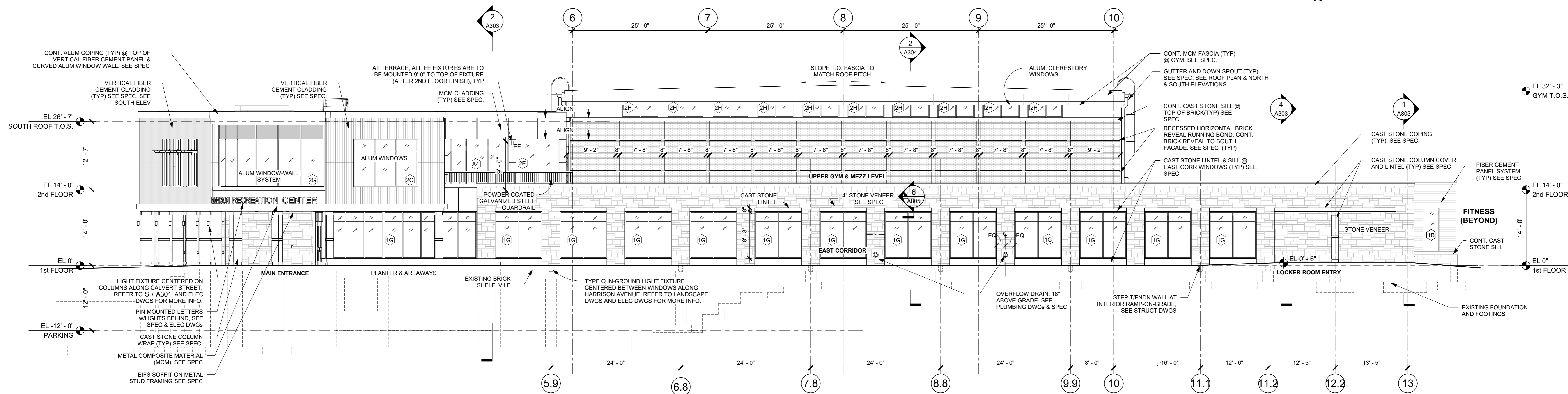


ELEVATION GENERAL NOTES

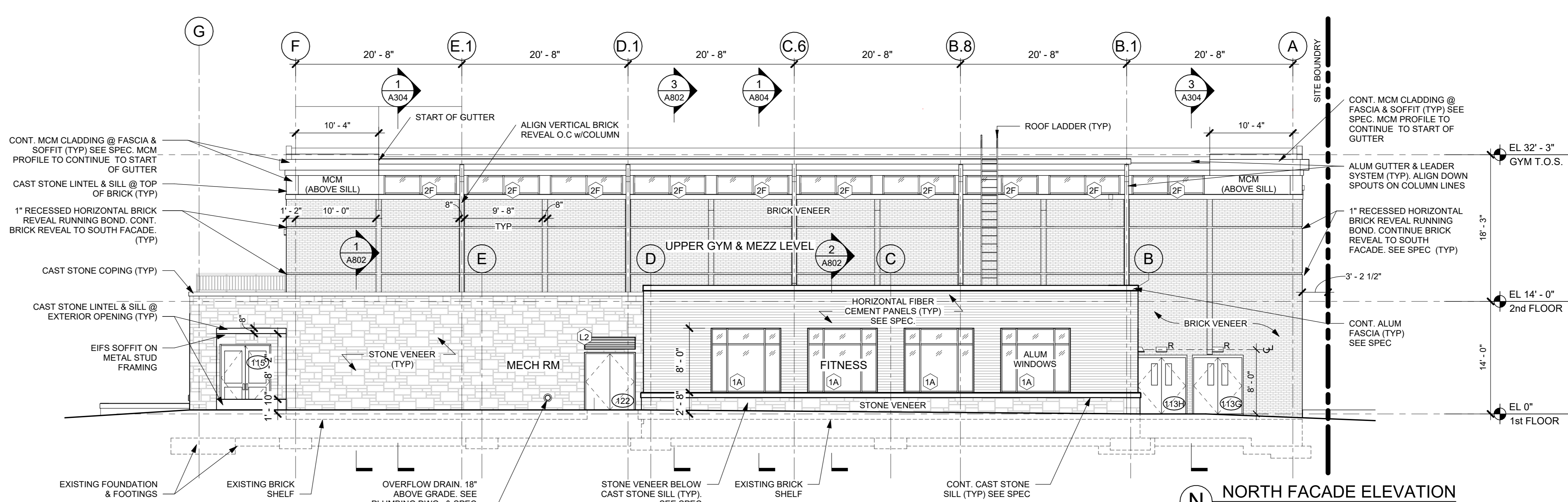
1. EXTERIOR OPENINGS (DOORS, WINDOWS, LOUVERS, ETC.) SHALL BE FULLY PERIMETER SEALED, INSULATED & CAULKED TO ADJACENT FINISH SURFACES BOTH INTERIOR & EXTERIOR OR AS DIRECTED BY MANUFACTURER, EXCEPT WHERE SUCH ACTIONS WOULD DISRUPT PROPER DRAINAGE TO THE EXTERIOR.
2. BELOW GRADE FOUNDATIONS SHOWN ARE APPROXIMATE & FOR REFERENCE ONLY. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
3. MASONRY SHELF / LEDGE SHOWN AT FOUNDATIONS ARE APPROXIMATE. INTENT IS TO SHOW WHERE HEIGHT MAY DIFFER FROM TYPICAL DETAILS SUCH THAT MASONRY REMAINS BELOW FINISHED GRADE. COORDINATE IN FIELD WITH FINAL GRADING.



S SOUTH FACADE ELEVATION
1/8" = 1'-0"



E EAST FACADE ELEVATION
1/8" = 1'-0"



N NORTH FACADE ELEVATION
1/8" = 1'-0"

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

EXTERIOR ELEVATIONS

Job No. 2020-1005 Date 03/31/2020

Scale AS NOTED Drawn / Checked

Sheet Number

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

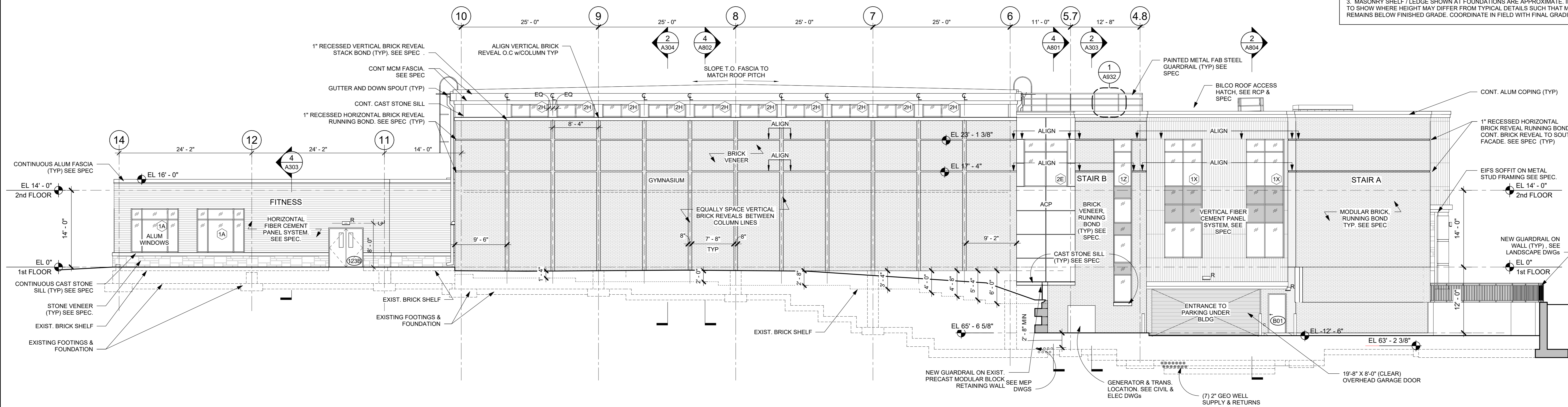
270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

ELEVATION GENERAL NOTES

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

**EXTERIOR
ELEVATIONS**

Job No. 2020-1005 Date 05/01/2023

Scale AS NOTED Drawn / Checked - -

Sheet Number

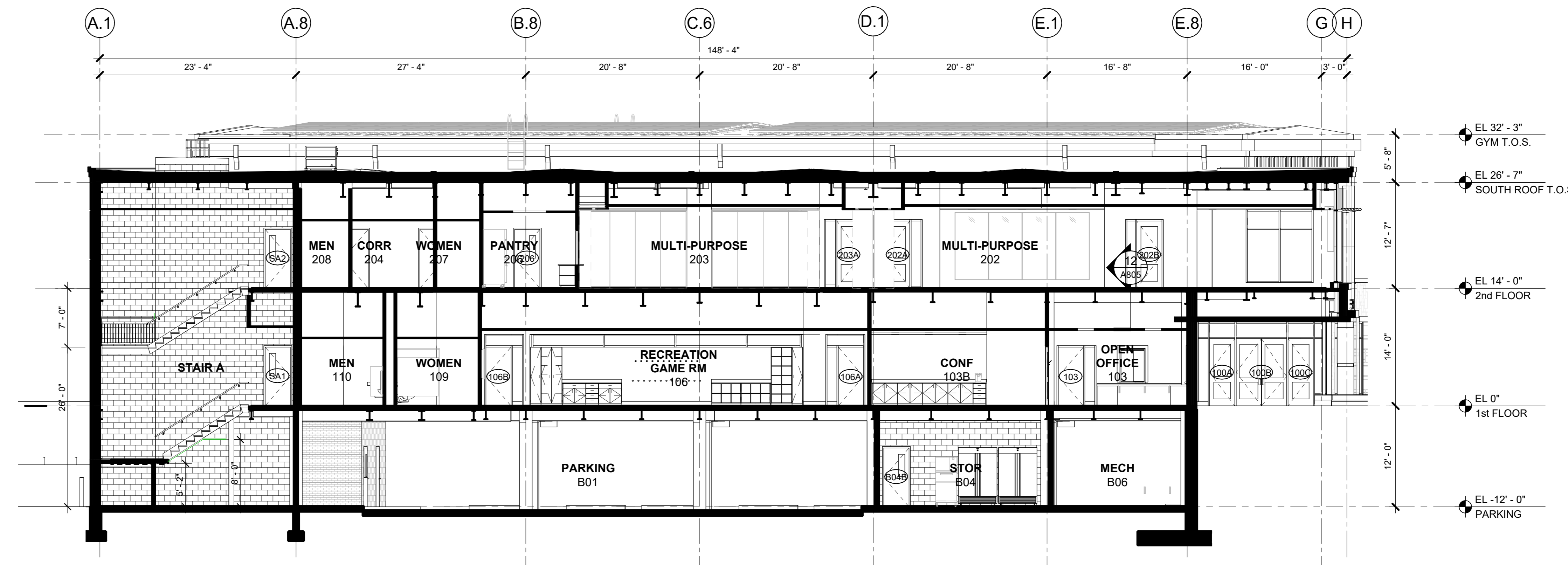
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**HARRISON
RECREATION &
COMMUNITY
CENTER**

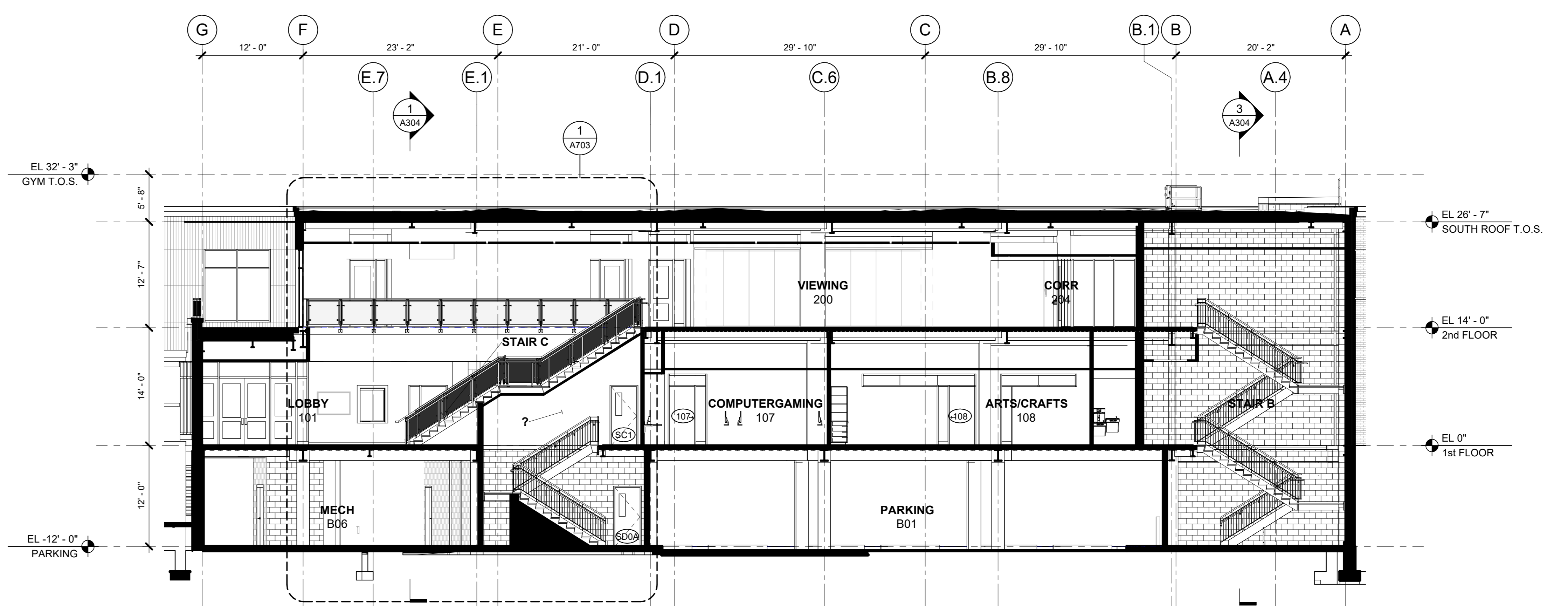
New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528



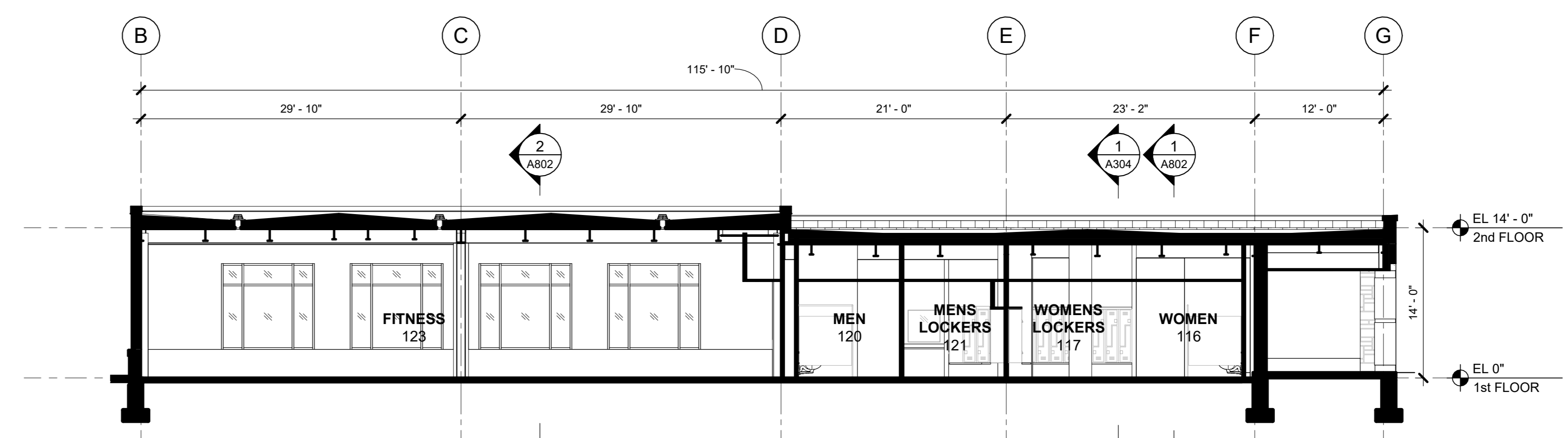
CONSTRUCTION DOCUMENTS



1 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"



2 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"



4 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"

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1	03/31/2020	50% DESIGN DEVELOPMENT

No. _____ Date _____ Issue _____

Sheet Title

BUILDING SECTIONS

Job No.	2020-1005	Date	03/31/2020
Scale	AS NOTED	Drawn / Checked	- / -

Sheet Number
A303

HARRISON RECREATION & COMMUNITY CENTER

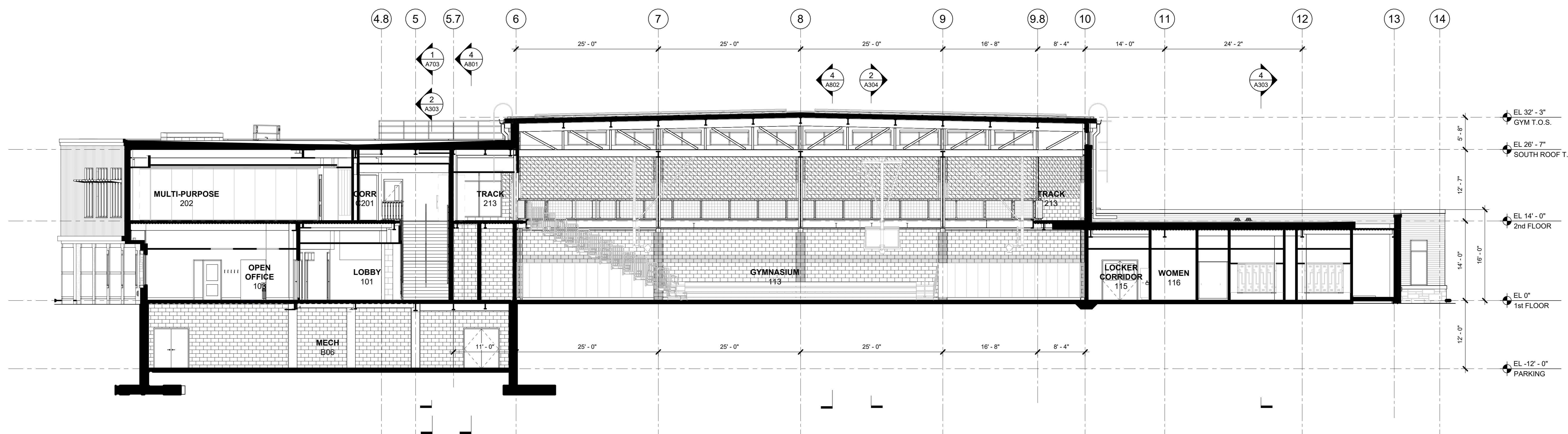
New Construction - Phase 2

Town / Village of Harrison

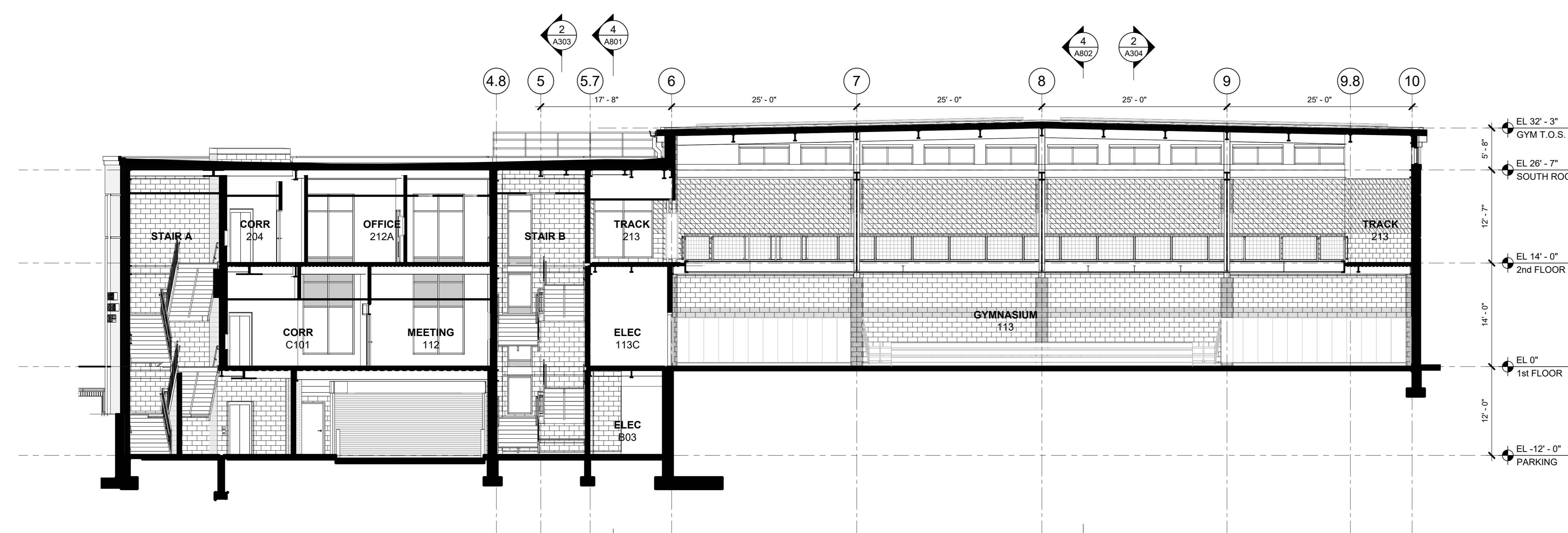
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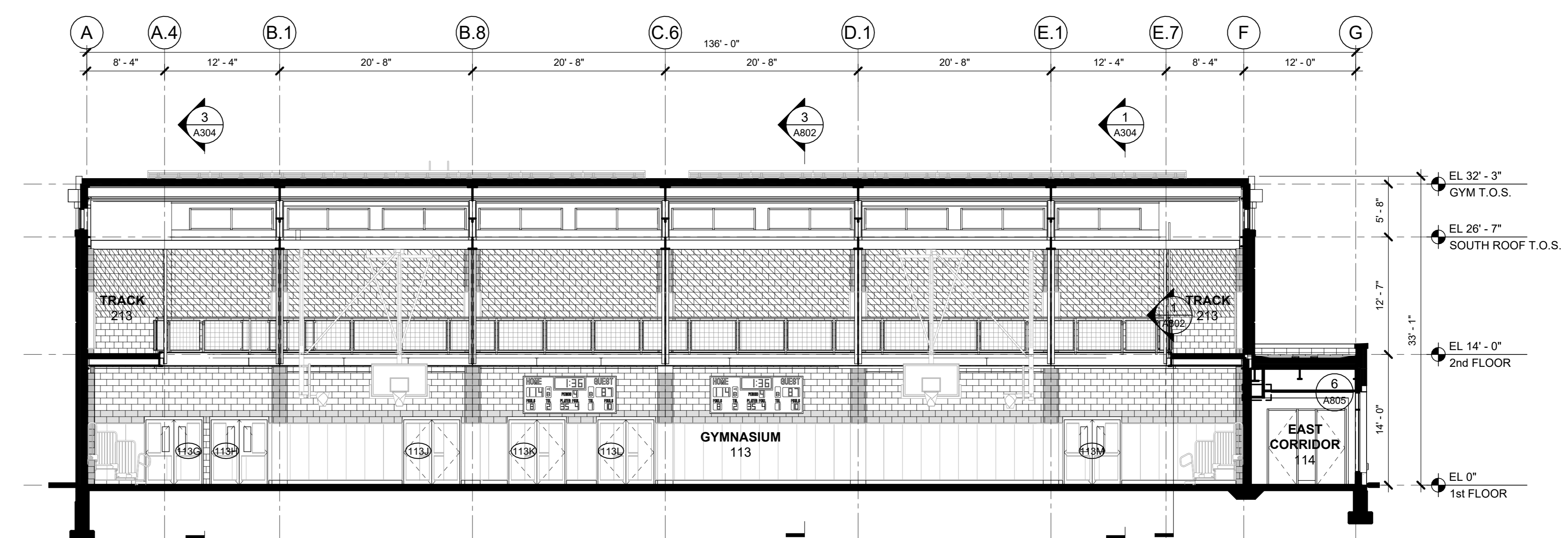
CONSTRUCTION DOCUMENTS



1 BUILDING SECTION N-S LOOKING WEST
1/8" = 1'-0"



3 BUILDING SECTION N-S LOOKING WEST
1/8" = 1'-0"



2 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

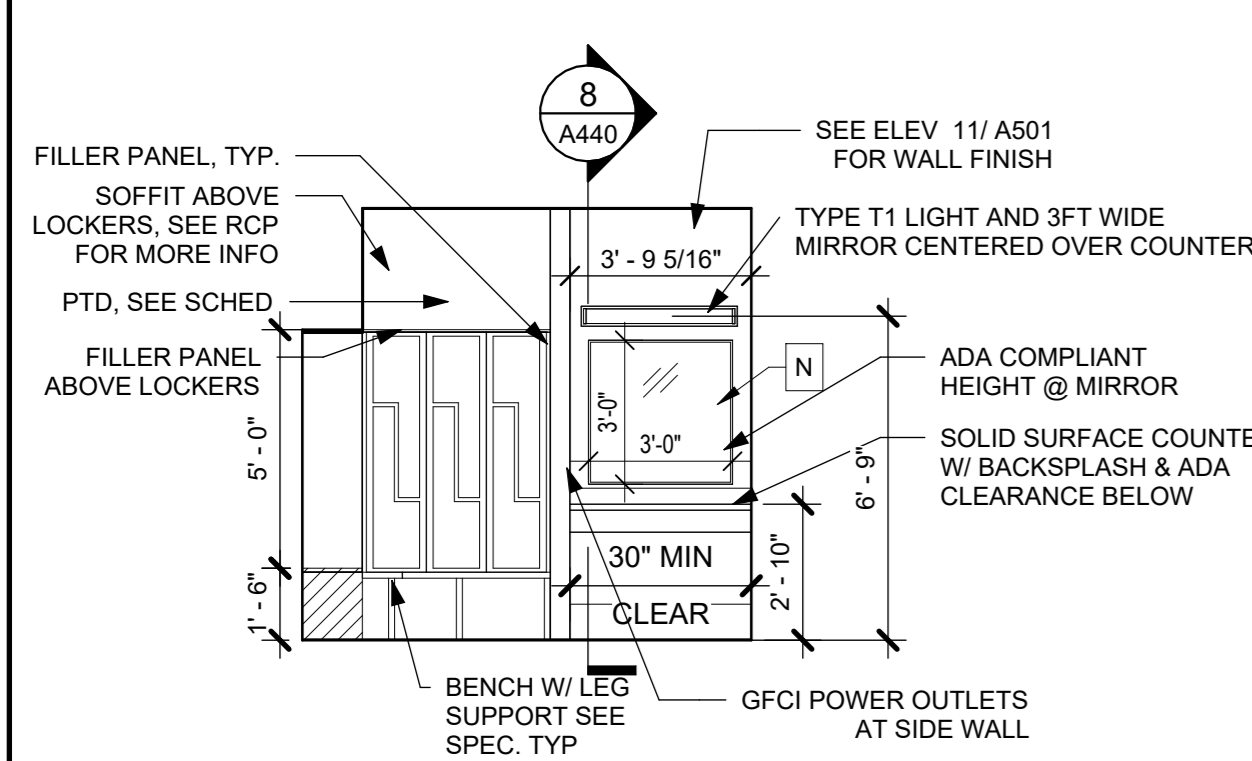
BUILDING SECTIONS

Job No. 2020-1005 Date 06/01/2020

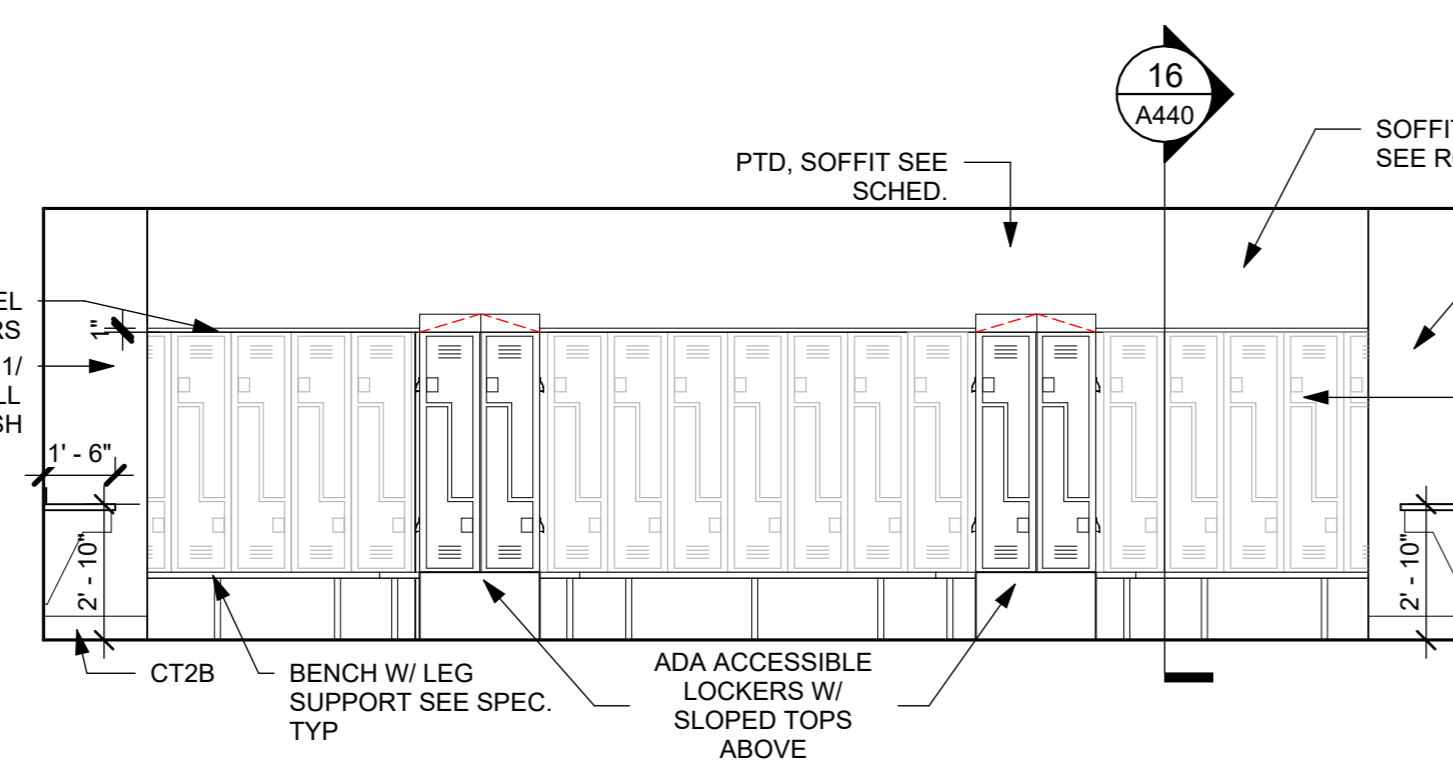
Scale AS NOTED Drawn / Checked

Sheet Number

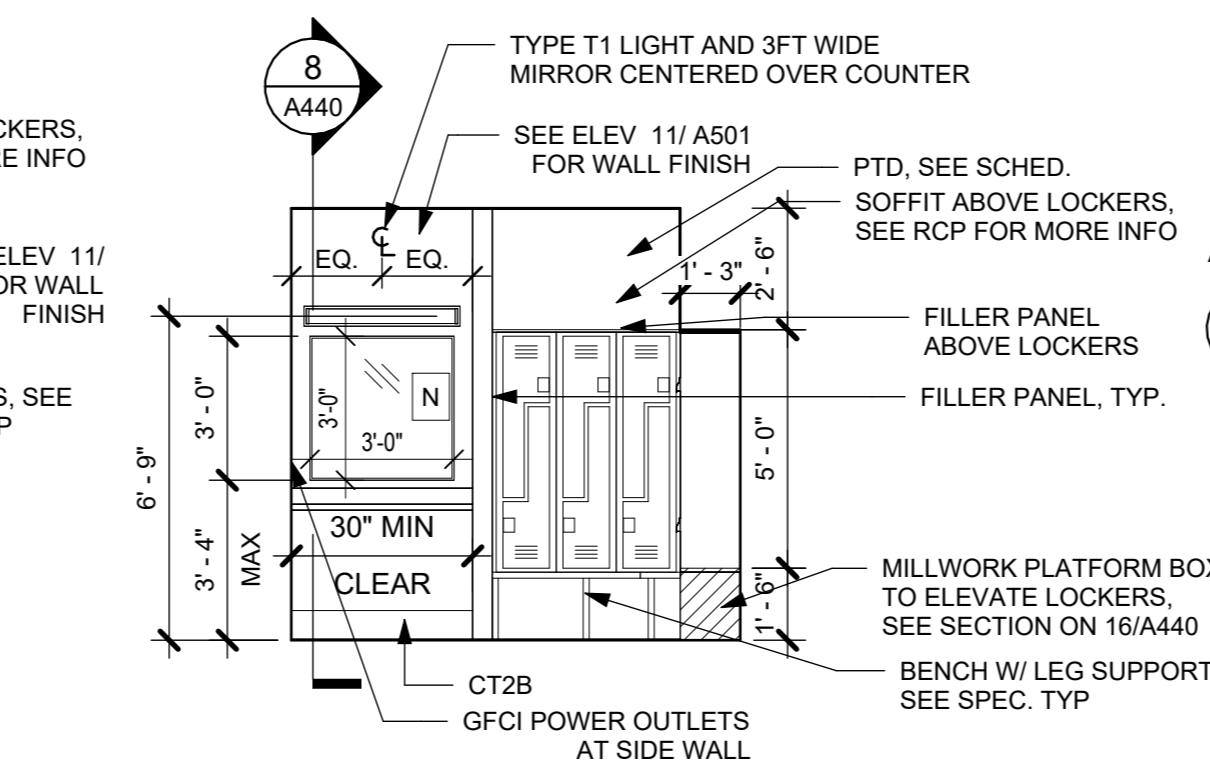
A304



3 MENS LOCKER ROOM - SOUTH ELEVATION
1/4" = 1'-0"

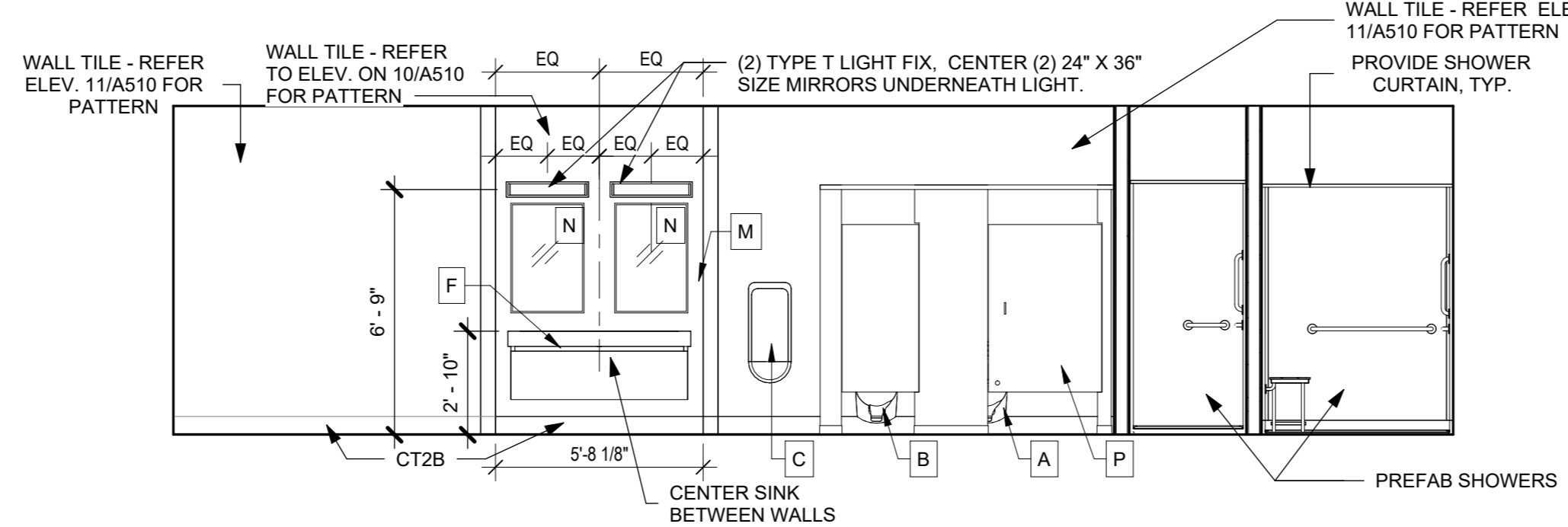


2 MENS LOCKER ROOM - EAST ELEVATION
1/4" = 1'-0"

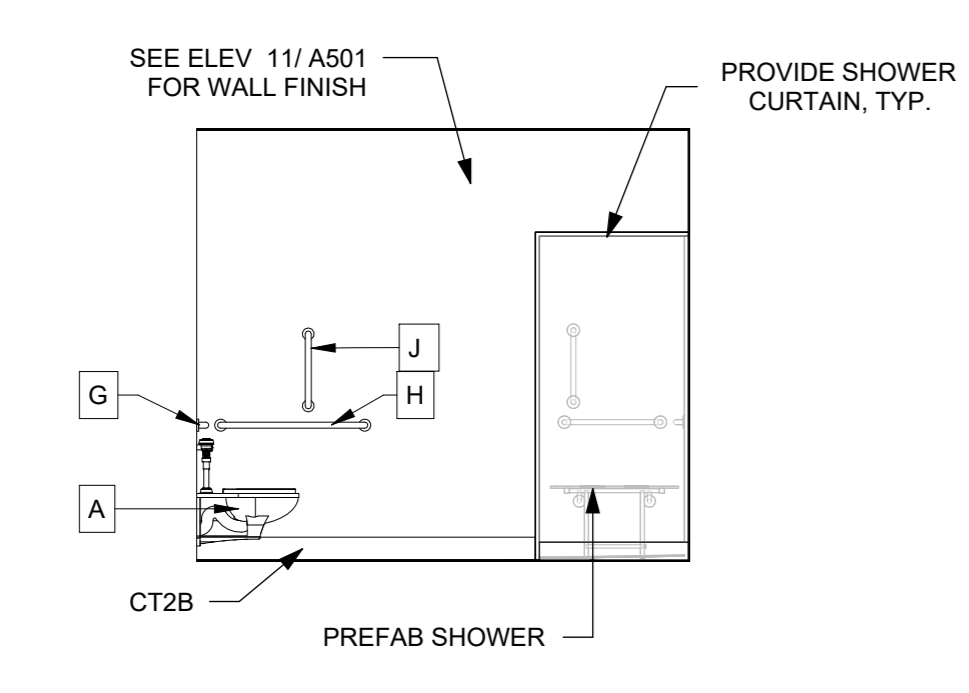


1 MENS LOCKER ROOM - NORTH ELEVATION
1/4" = 1'-0"

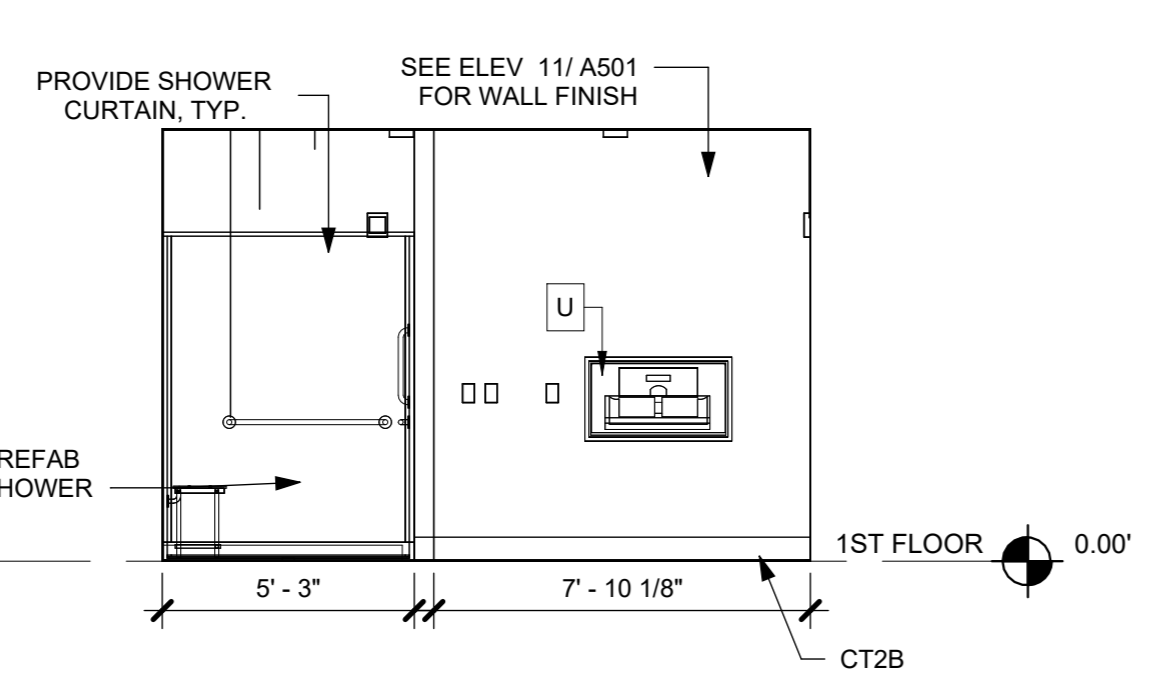
NOTE: REFER TO SHEET 3/A410 FOR TOILET ROOM FIXTURE, ACCESSORIES HEIGHT LEGEND.



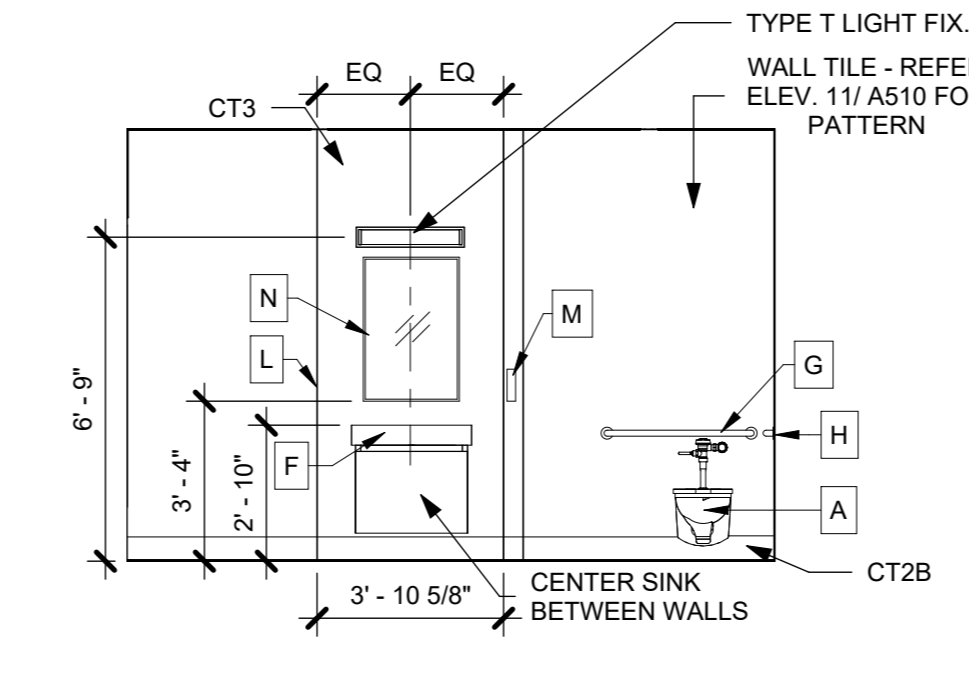
4 MEN 120 - WEST ELEVATION
1/4" = 1'-0"



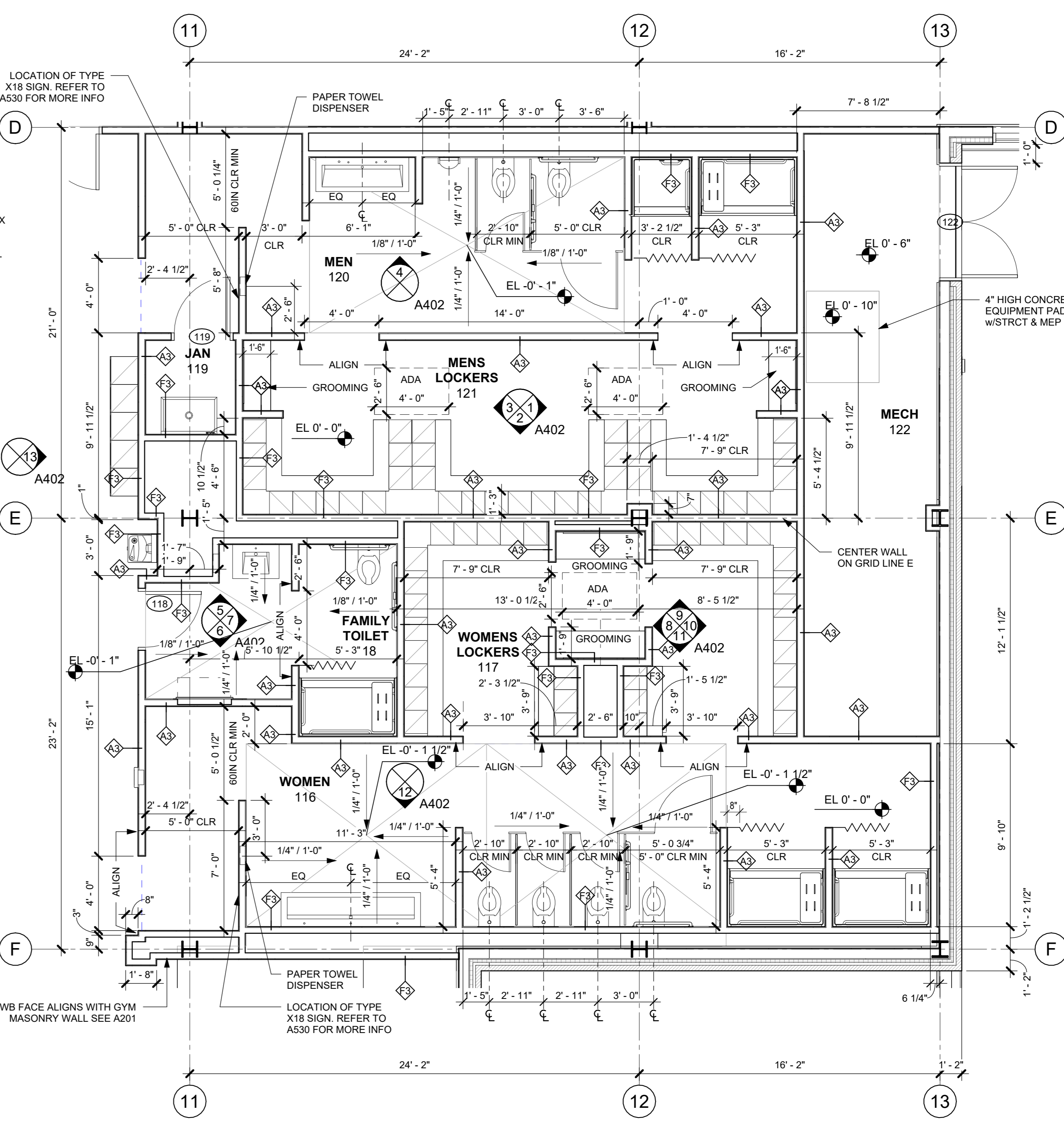
7 TOILET 118 - NORTH ELEVATION
1/4" = 1'-0"



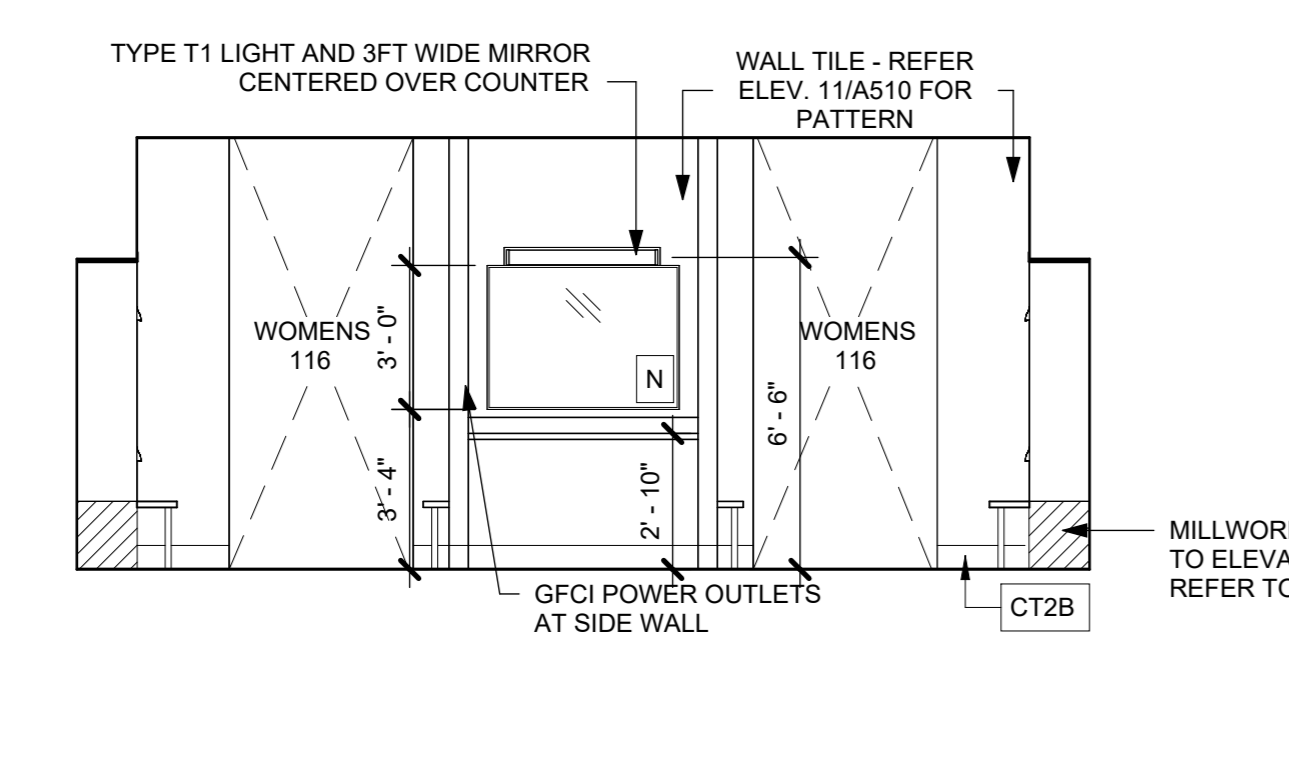
6 TOILET 118 - EAST ELEVATION
1/4" = 1'-0"



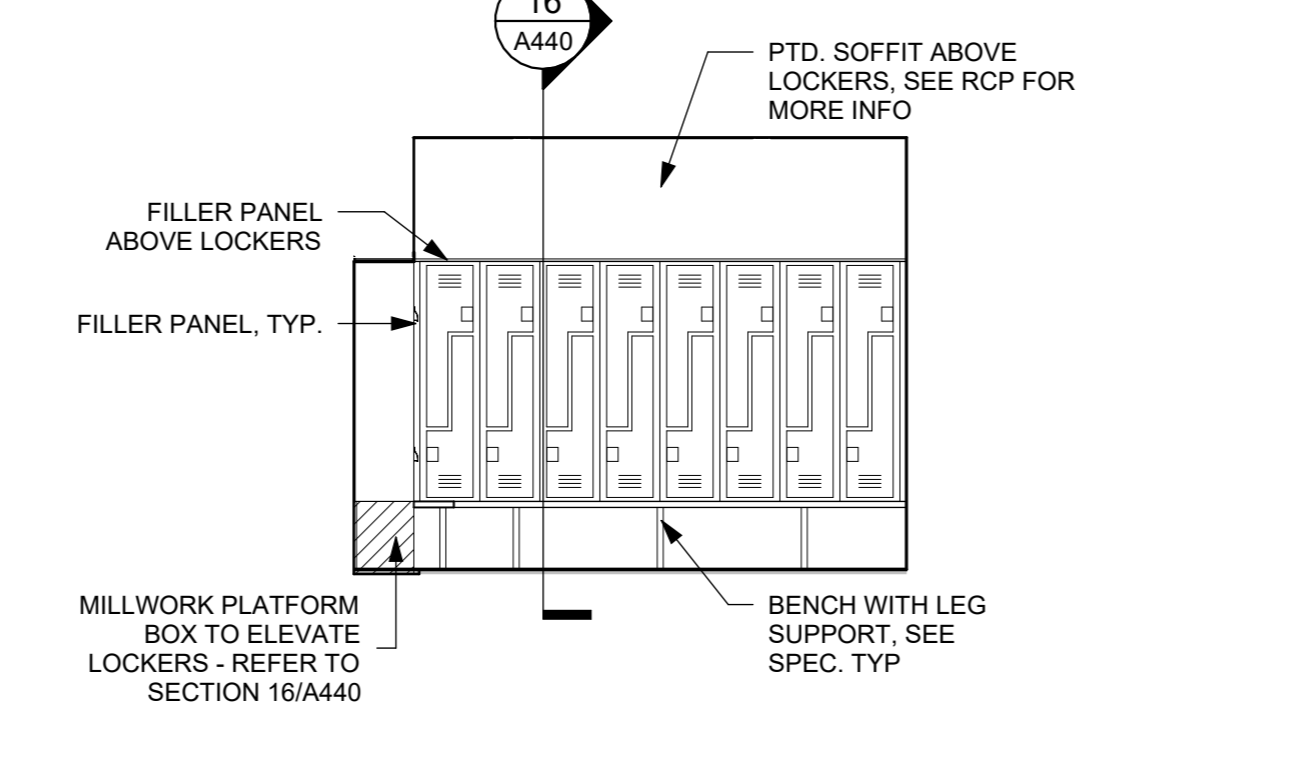
5 TOILET 118 - WEST ELEVATION
1/4" = 1'-0"



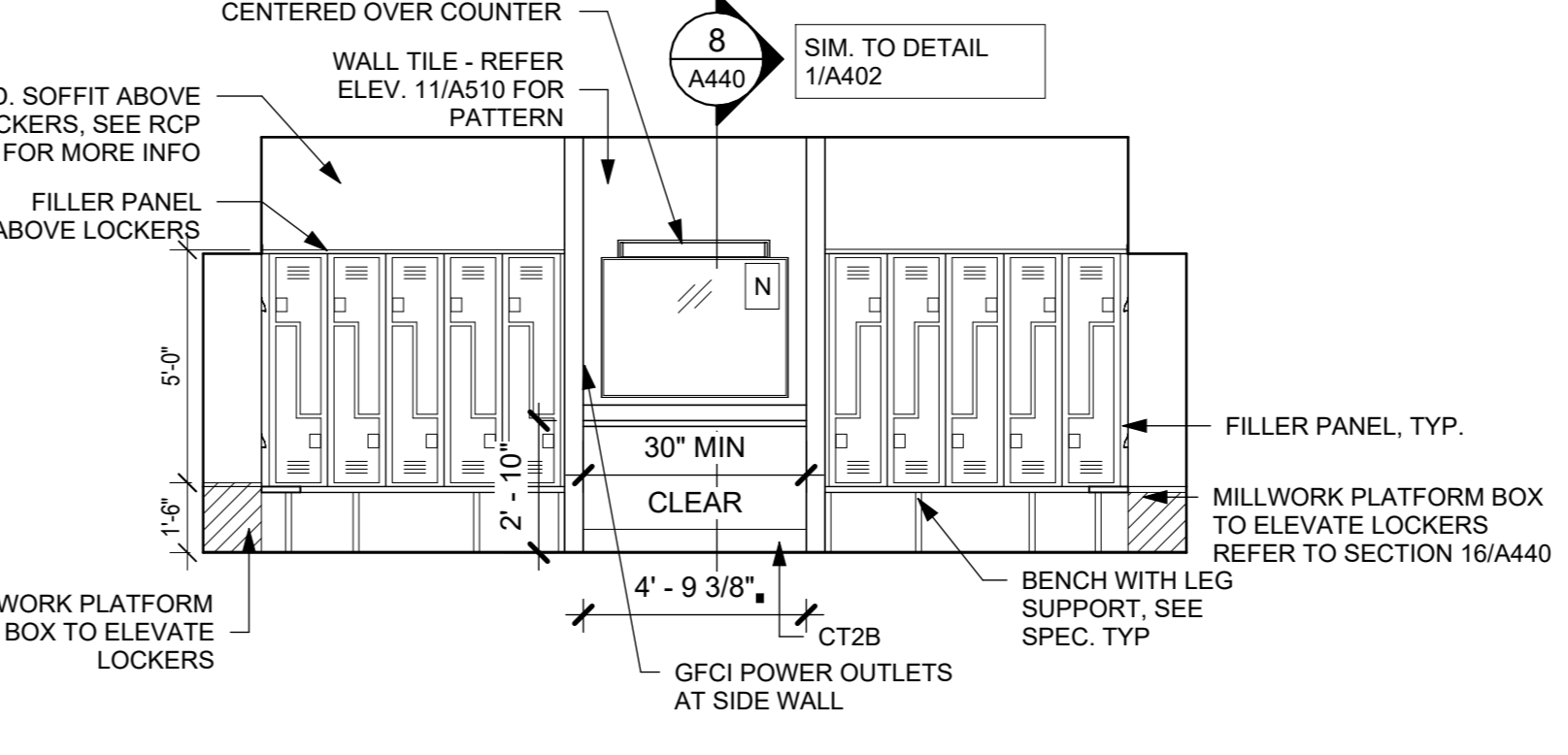
A LOCKER ROOMS ENLARGED PLAN
1/4" = 1'-0"



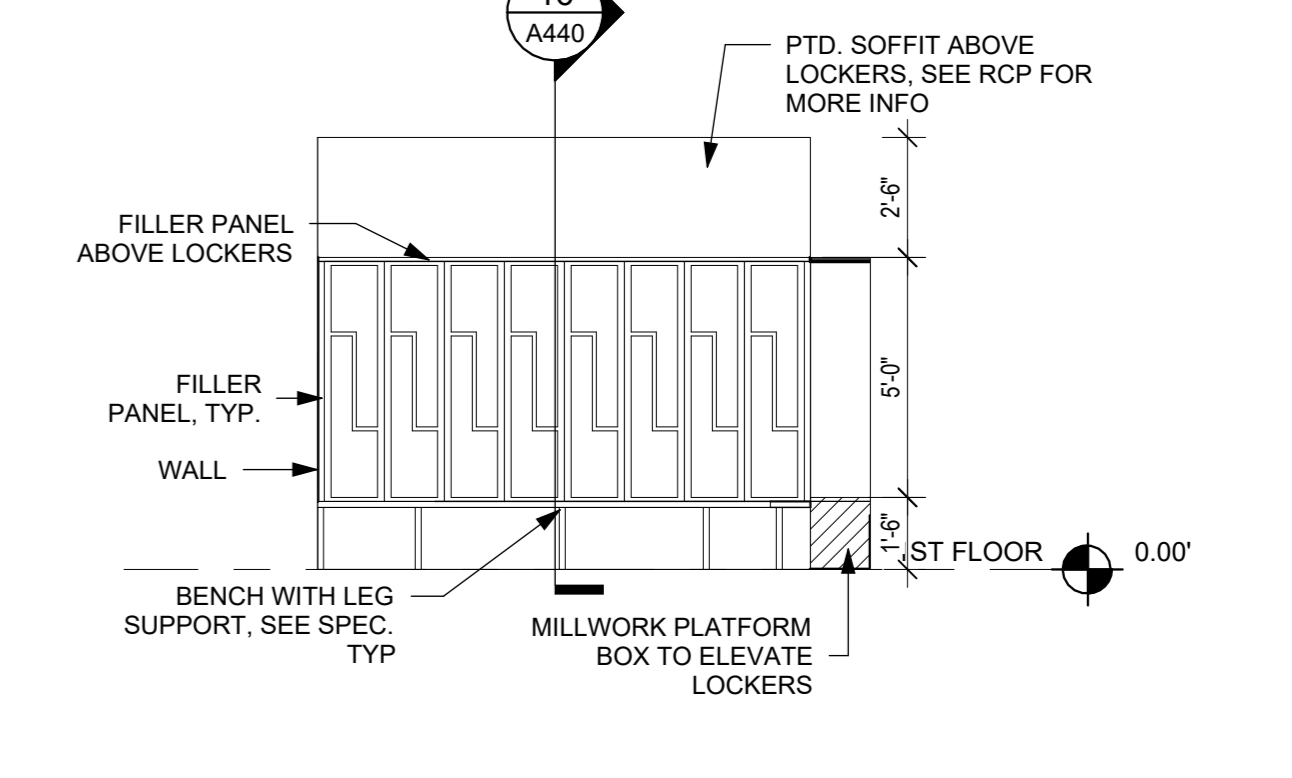
11 WOMENS LOCKER ROOM - EAST ELEVATION
1/4" = 1'-0"



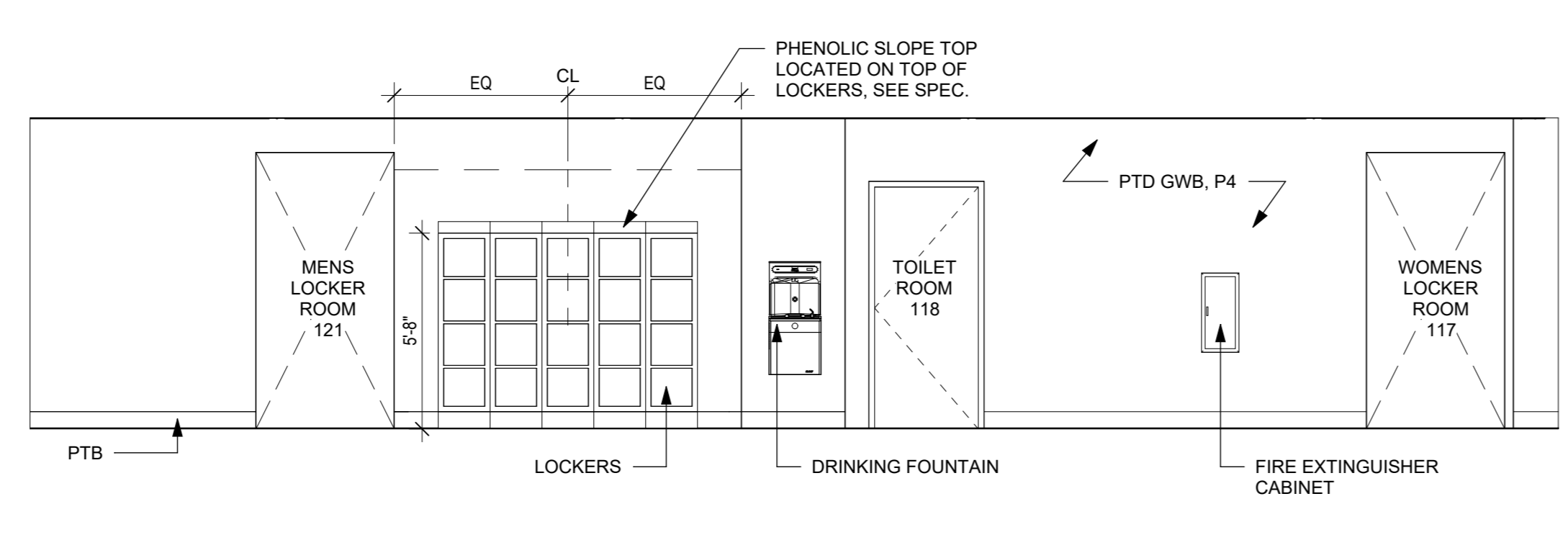
10 WOMENS LOCKER ROOM - NORTH ELEVATION
1/4" = 1'-0"



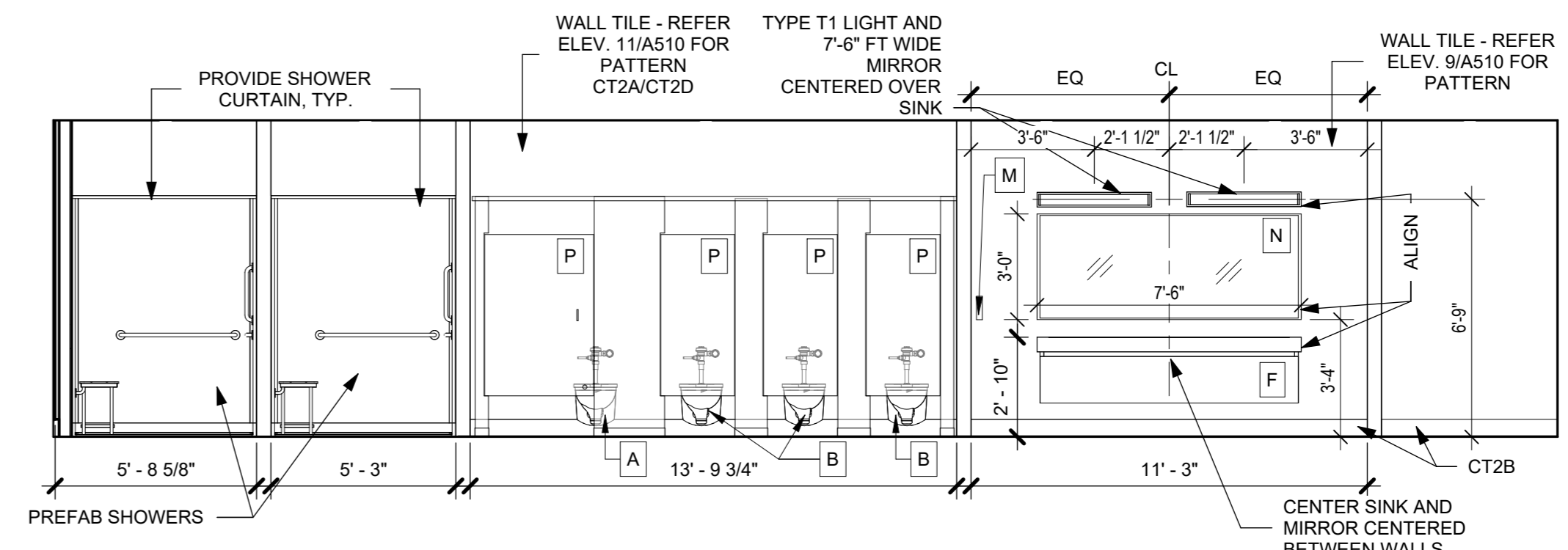
9 WOMENS LOCKER ROOM - WEST ELEVATION
1/4" = 1'-0"



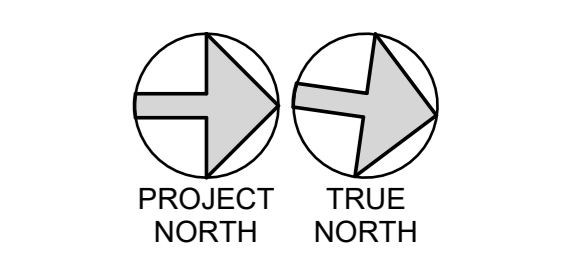
8 WOMENS LOCKER ROOM - SOUTH ELEVATION
1/4" = 1'-0"



13 LOCKER CORRIDOR 115 - NORTH ELEVATION
1/4" = 1'-0"



12 WOMEN 116 - EAST ELEVATION
1/4" = 1'-0"



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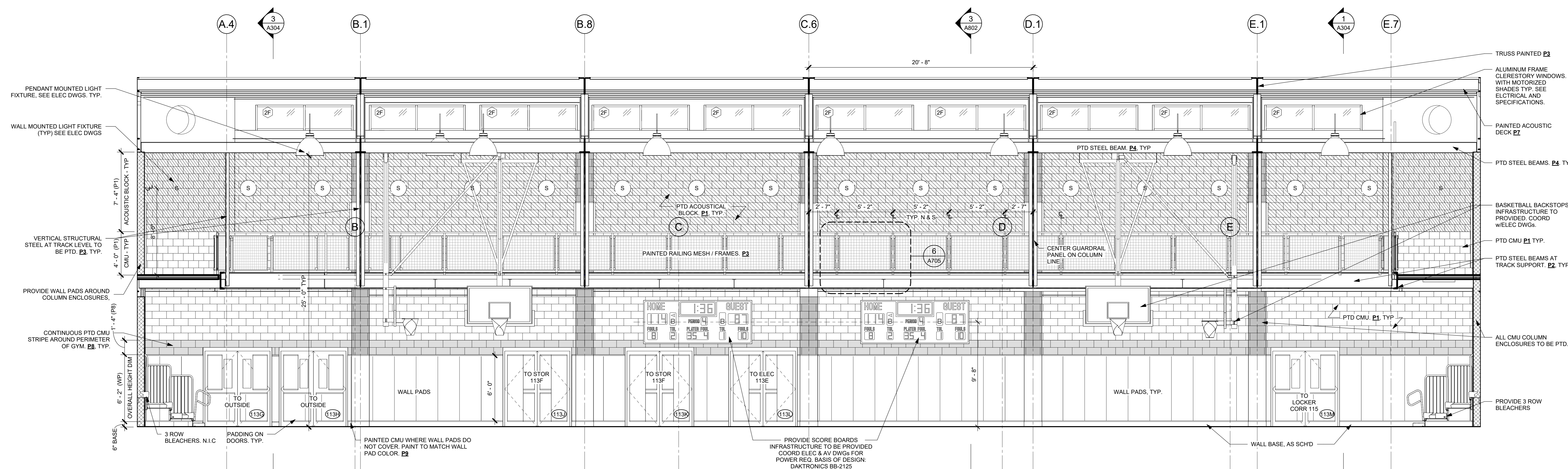
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Professional Seal

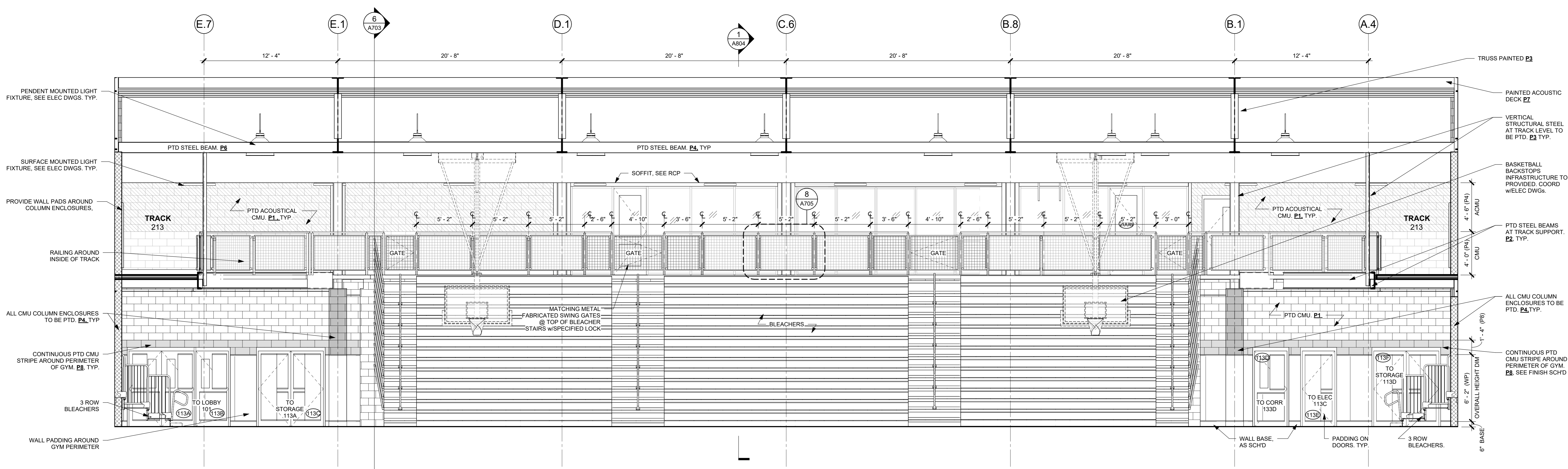
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4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

LOCKER ROOM ENLARGED PLANS & INTERIOR ELEVATIONS

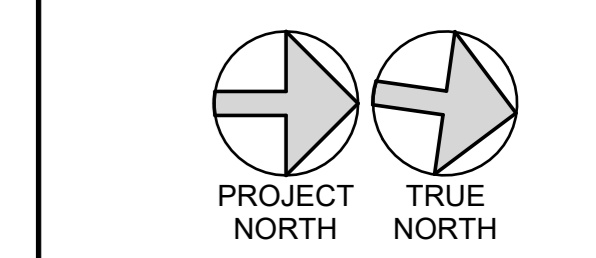
Job No.	2020-1005	Date	03/31/2020
Scale	AS NOTED	Drawn / Checked	- / -
Sheet Number	A402		



1 GYMNASIUM NORTH ELEVATION
1/4" = 1'-0"



2 GYMNASIUM SOUTH ELEVATION
1/4" = 1'-0"



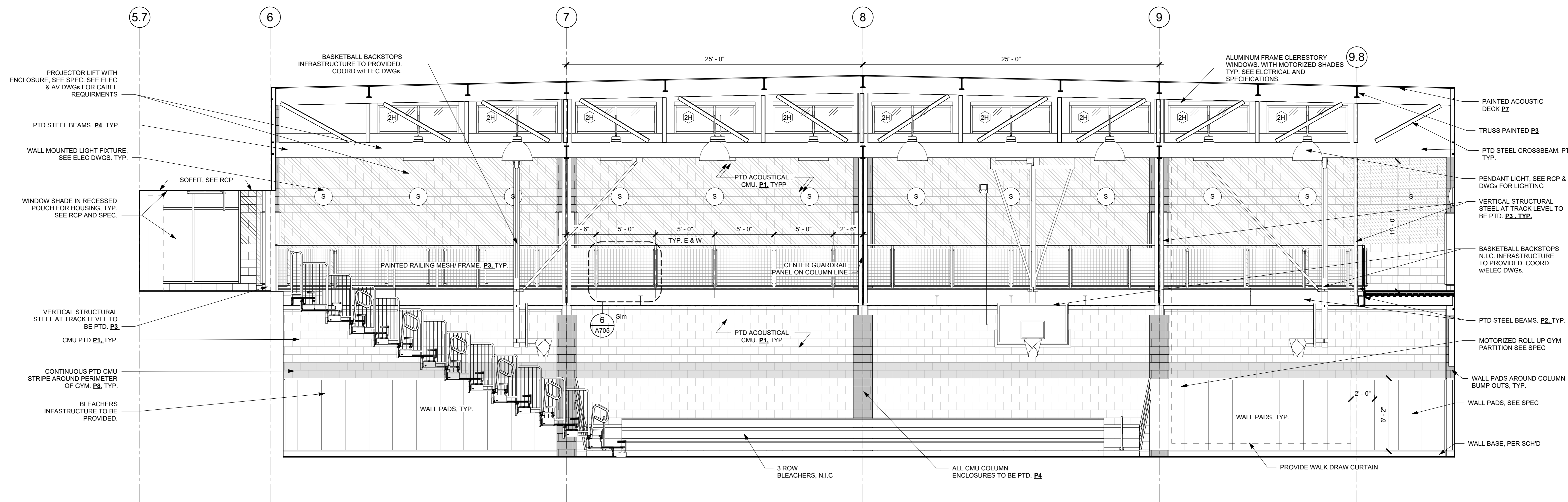
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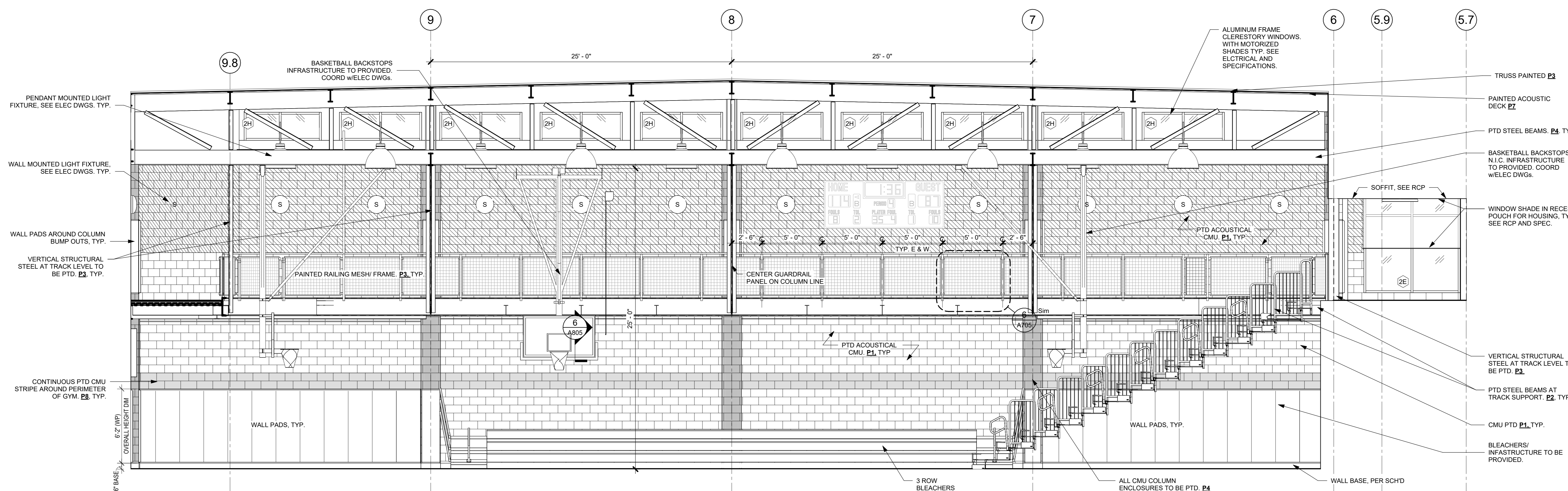
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Professional Seal

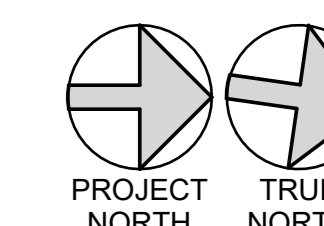
No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT



2 GYMNASIUM WEST ELEVATION
1/4" = 1'-0"



1 GYMNASIUM EAST ELEVATION
1/4" = 1'-0"



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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

Sheet Title

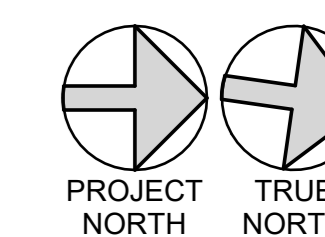
**GYMNASIUM
INTERIOR
ELEVATIONS**

Job No. 2020-1005 Date 12/18/23

Scale AS NOTED Drawn / Checked Author / Checker

Sheet Number

A404



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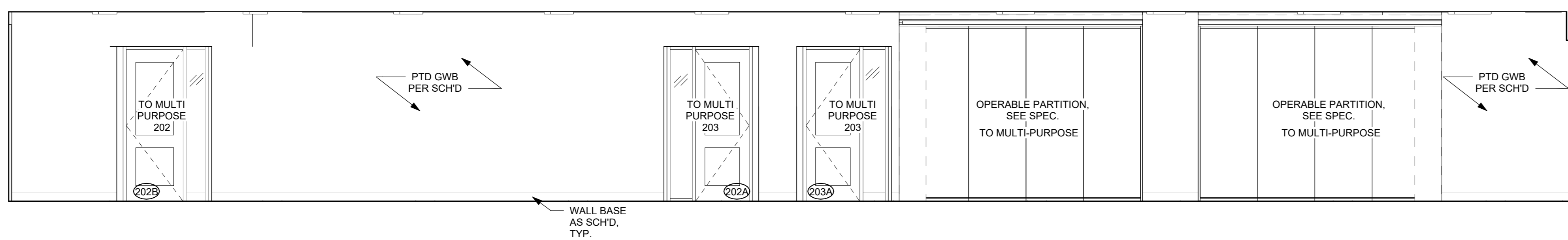
Professional Seal

No.	Date	Issue
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4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

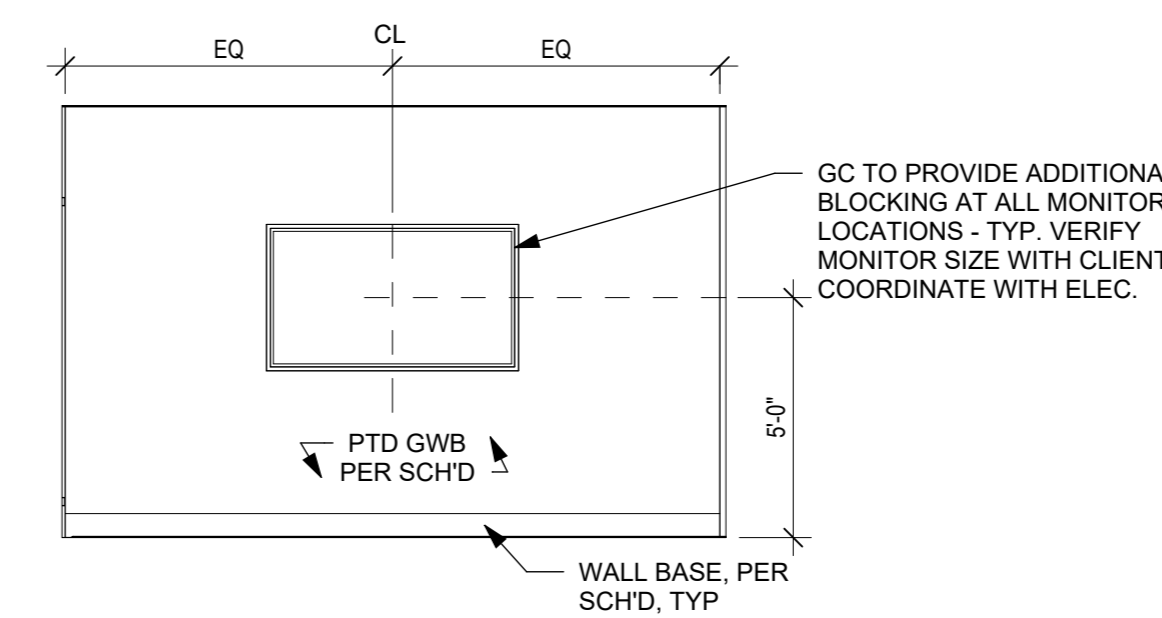
**2ND FLOOR
ENLARGED PLANS
& INTERIOR
ELEVATIONS**

Job No.	2020-1005	Date	12/22/23
Scale	AS NOTED	Drawn / Checked	Author / Checker

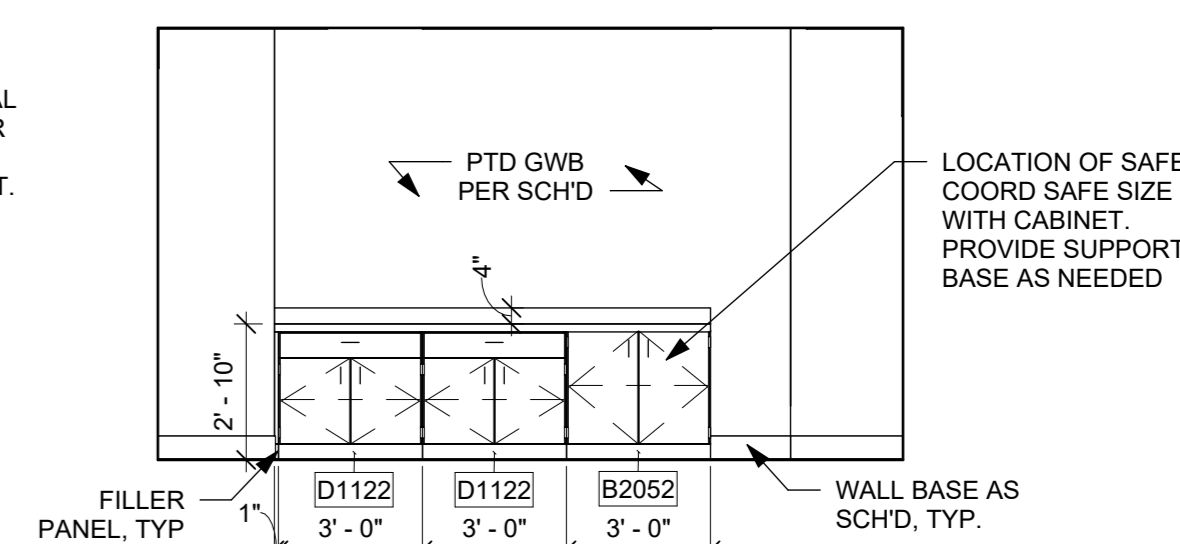
Sheet Number
A406



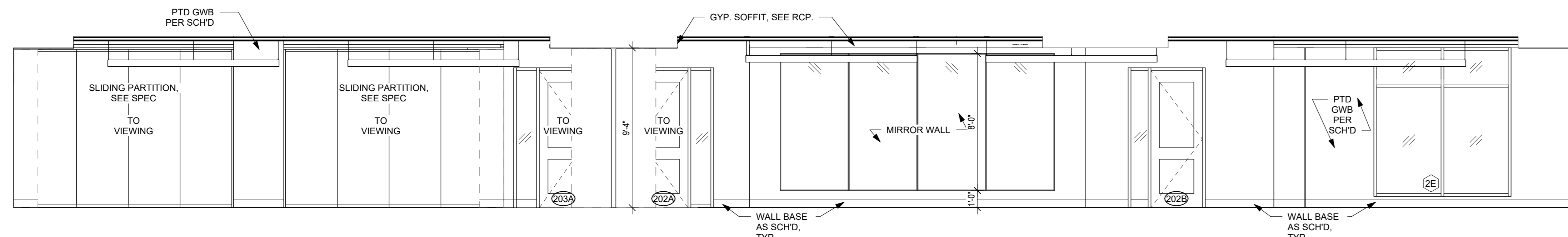
6 VIEWING 200 SOUTH ELEVATION
1/4" = 1'-0"



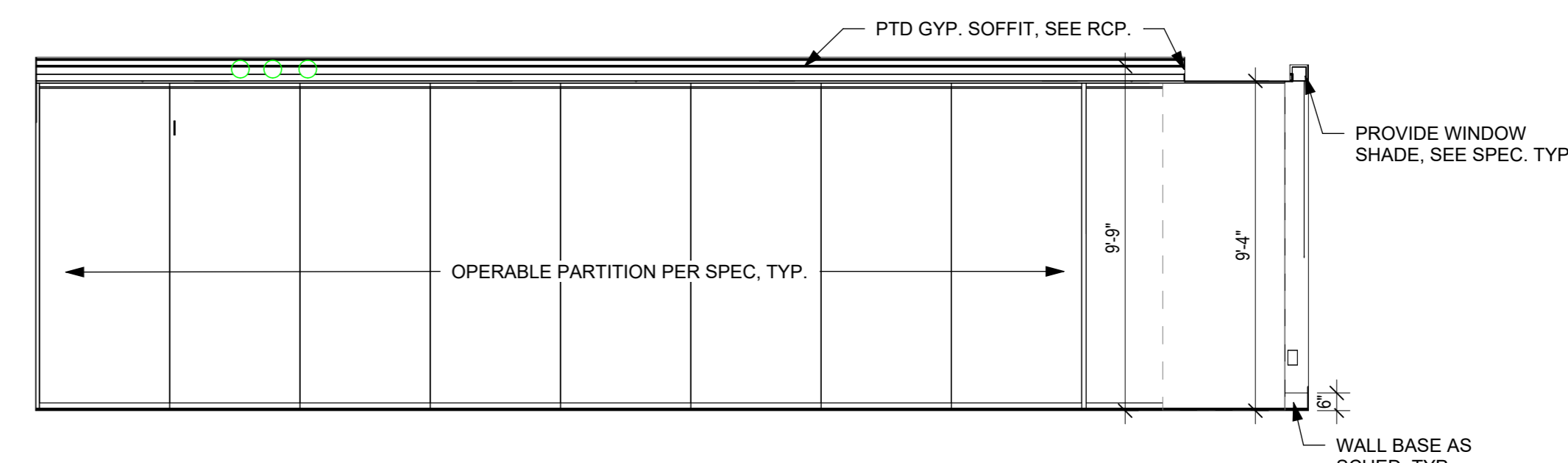
5 CONFERENCE 212B NORTH ELEVATION
1/4" = 1'-0"



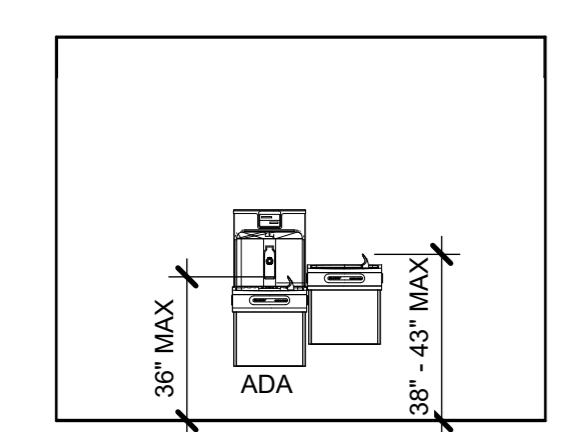
4 OPEN OFFICE 212 SOUTH ELEVATION
1/4" = 1'-0"



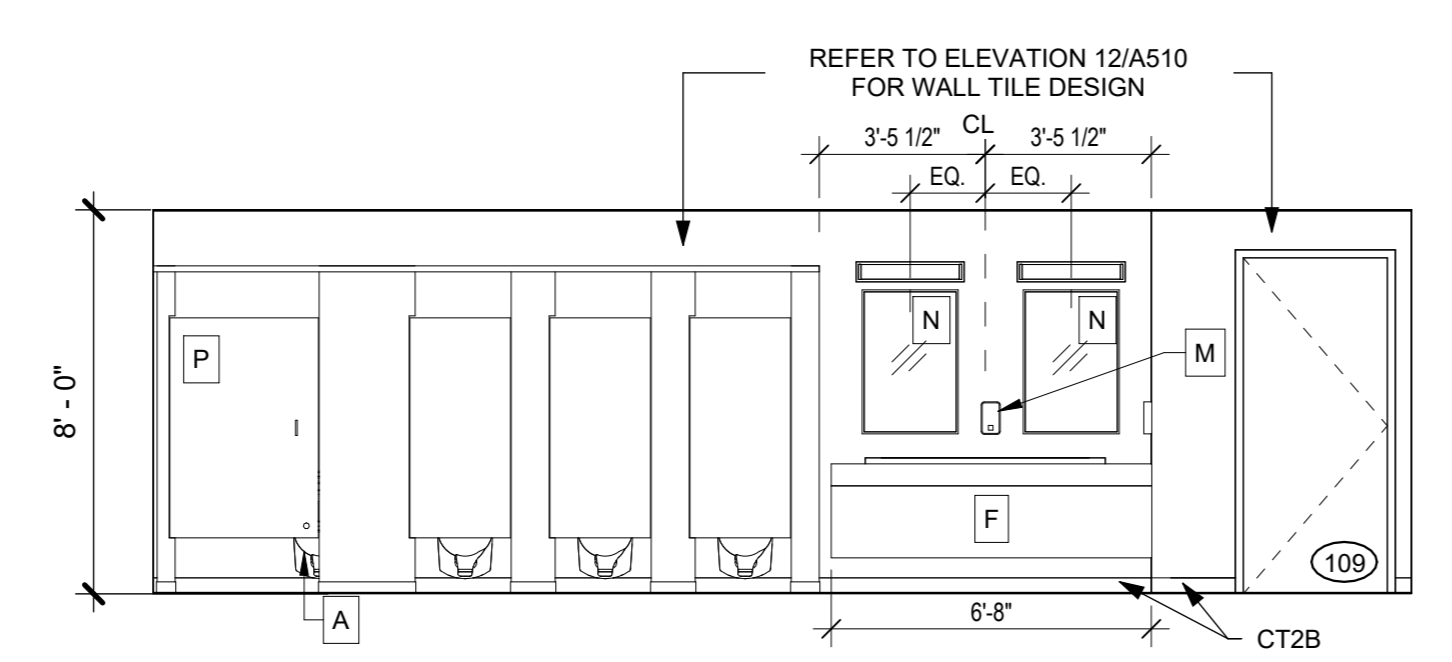
2 MULTI-PURPOSE ROOMS NORTH ELEVATION
1/4" = 1'-0"



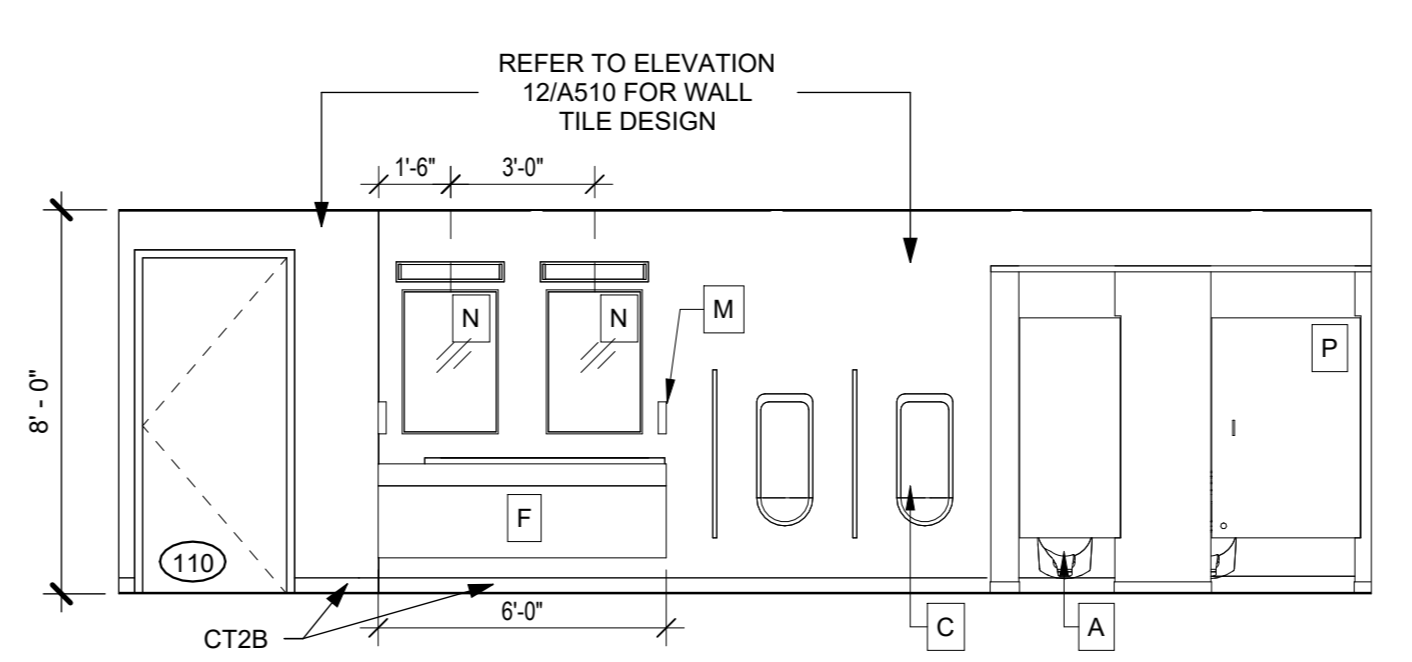
1 MULTI-PURPOSE OPERABLE PARTITION ELEVATION
1/4" = 1'-0"



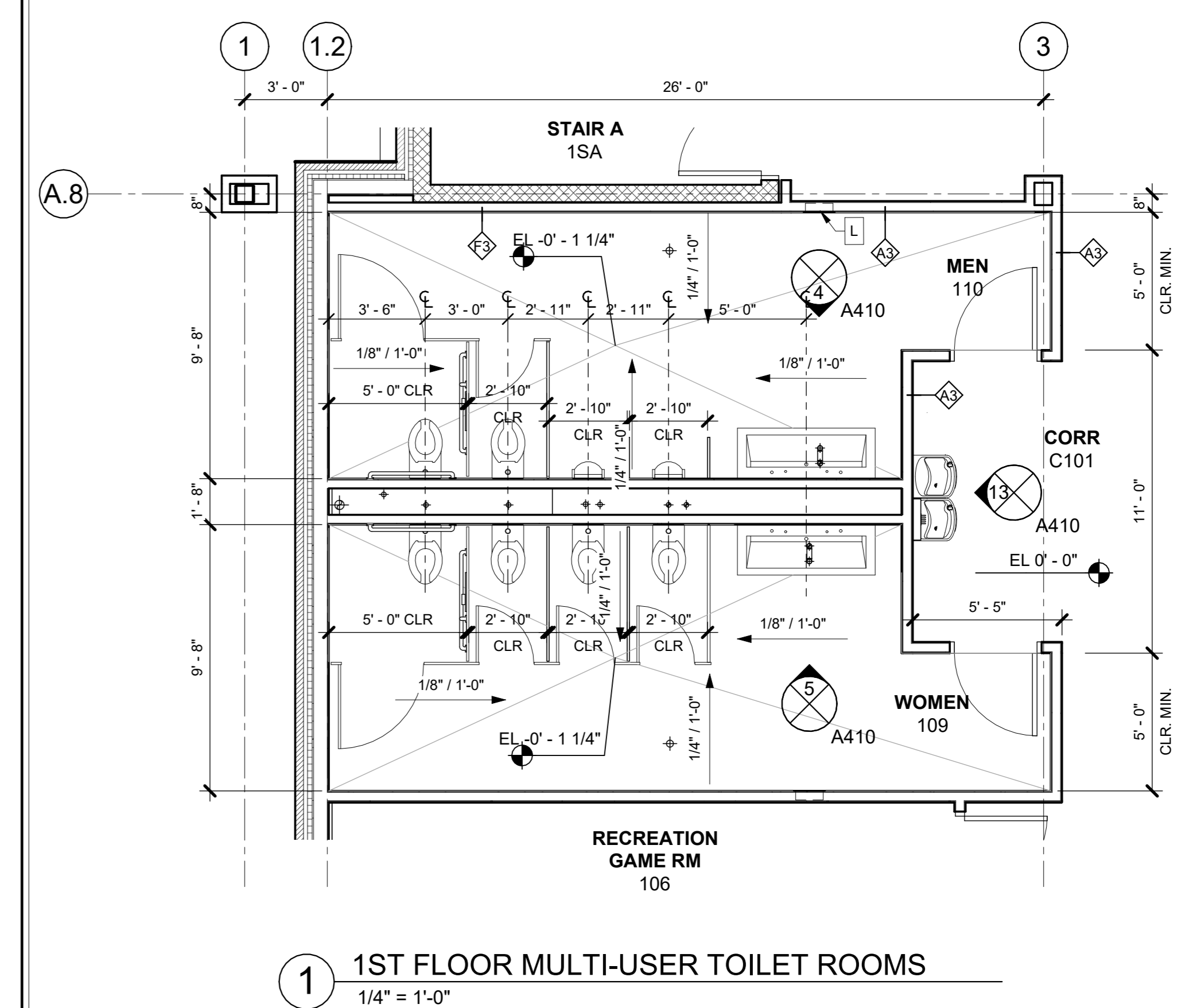
13 CORRIDOR C101 SOUTH ELEV.
1/4" = 1'-0"



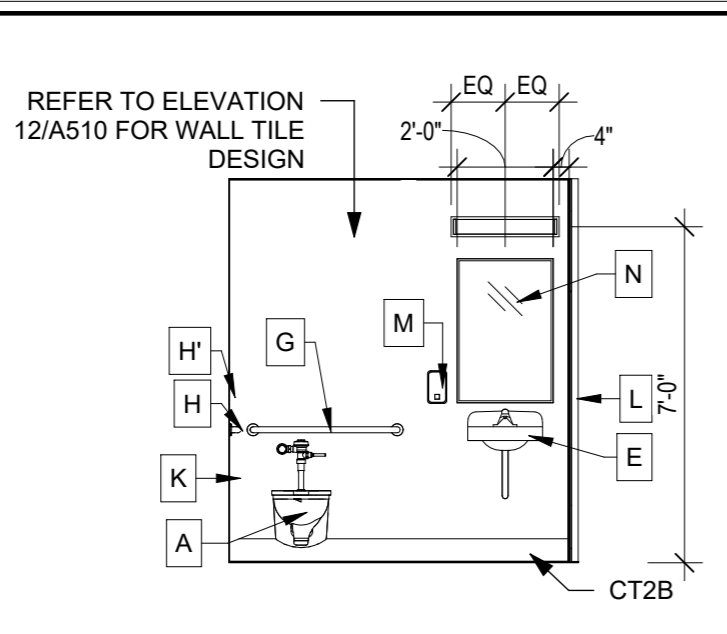
5 WOMEN 109 - WEST ELEVATION
1/4" = 1'-0"



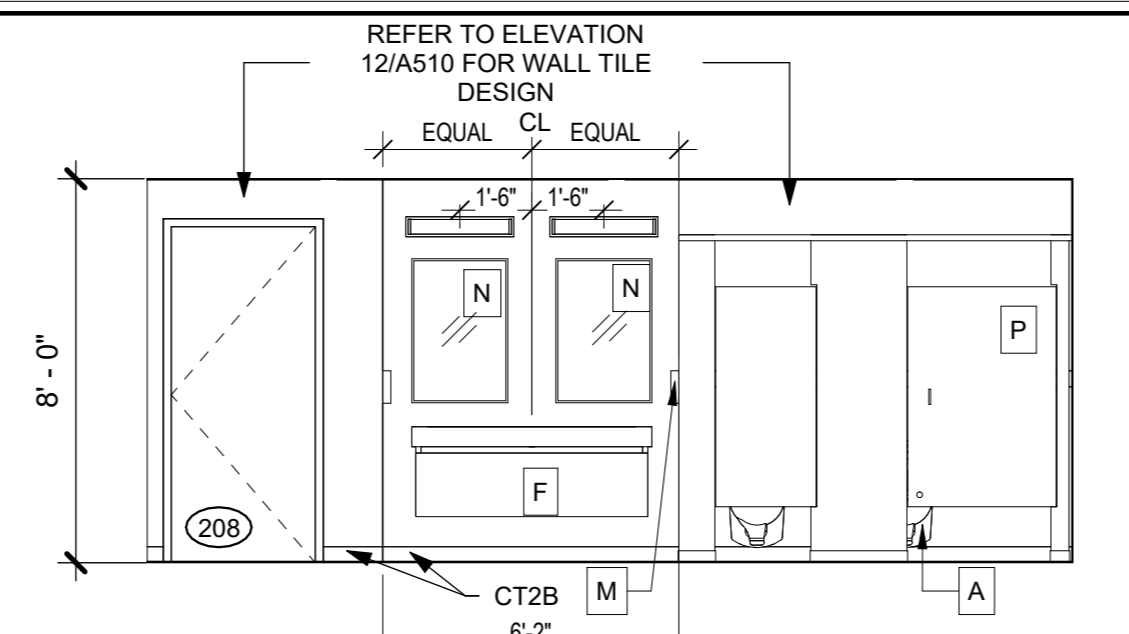
4 MEN 110 - EAST ELEVATION
1/4" = 1'-0"



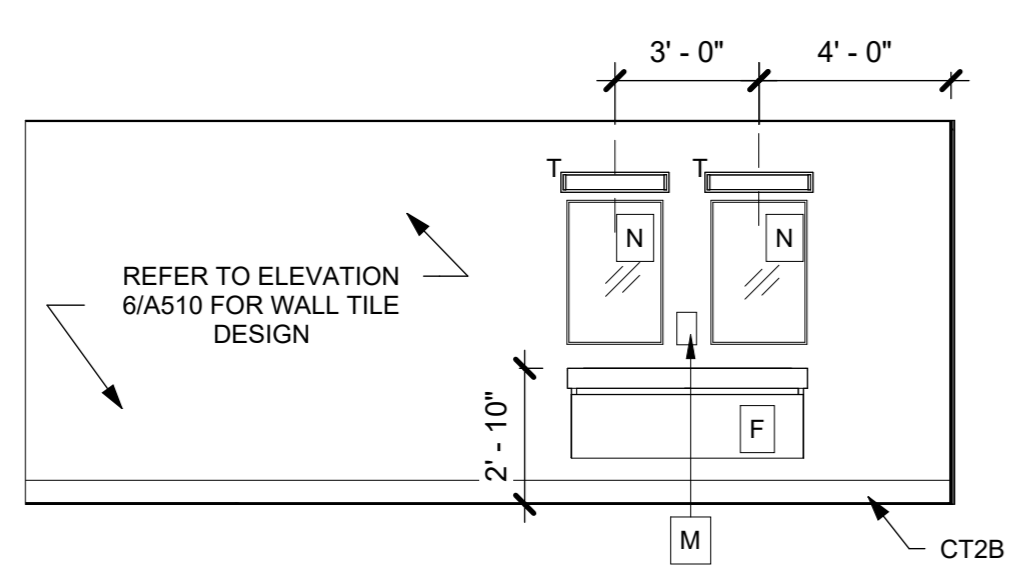
1 1ST FLOOR MULTI-USER TOILET ROOMS
1/4" = 1'-0"



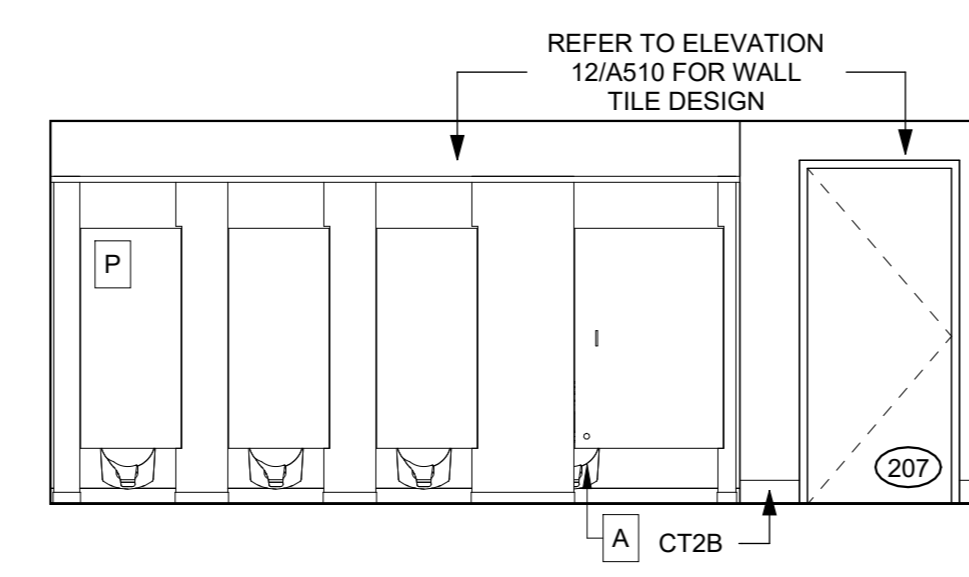
8 TOILET 211 - NORTH ELEVATION
1/4" = 1'-0"



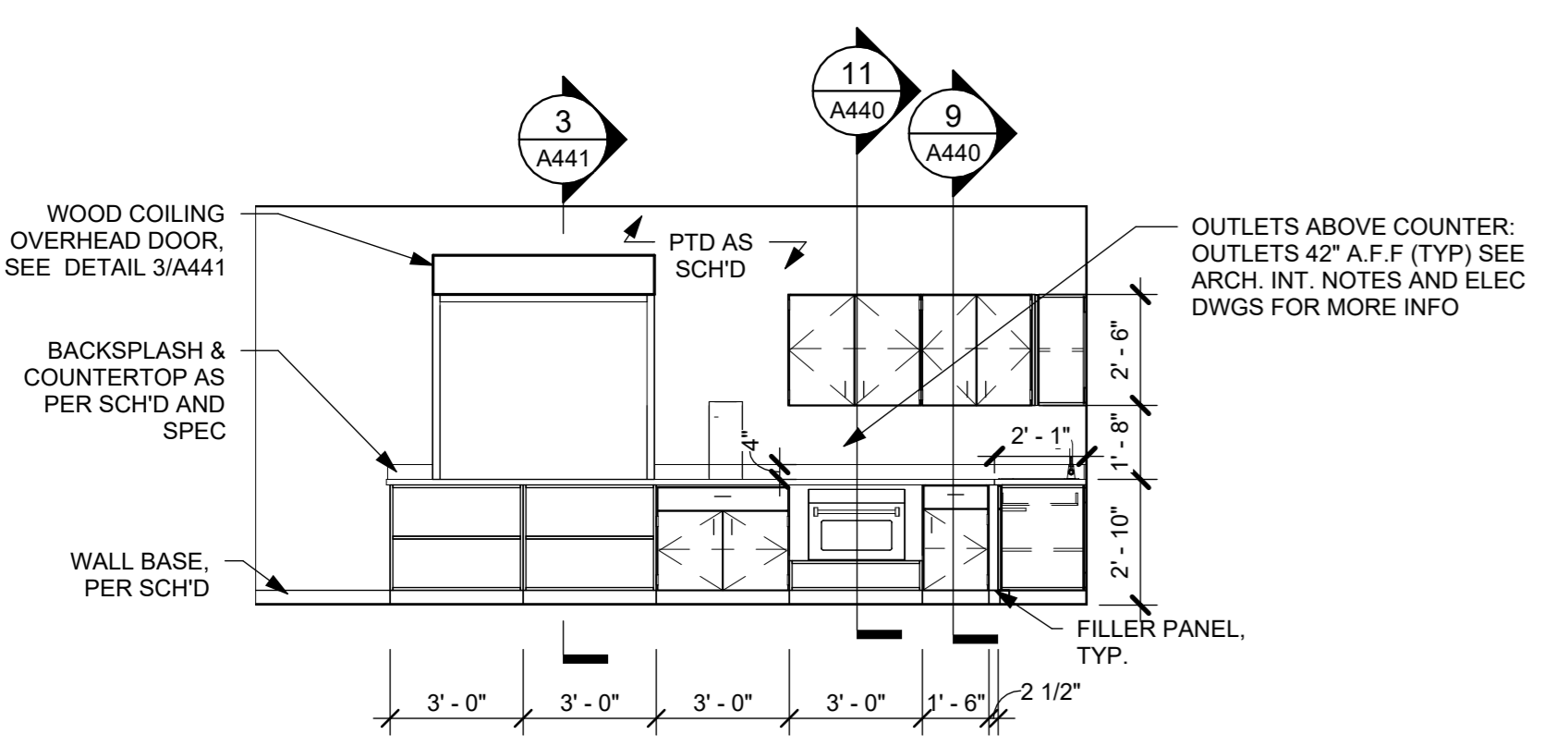
12 MEN 208 - EAST ELEVATION
1/4" = 1'-0"



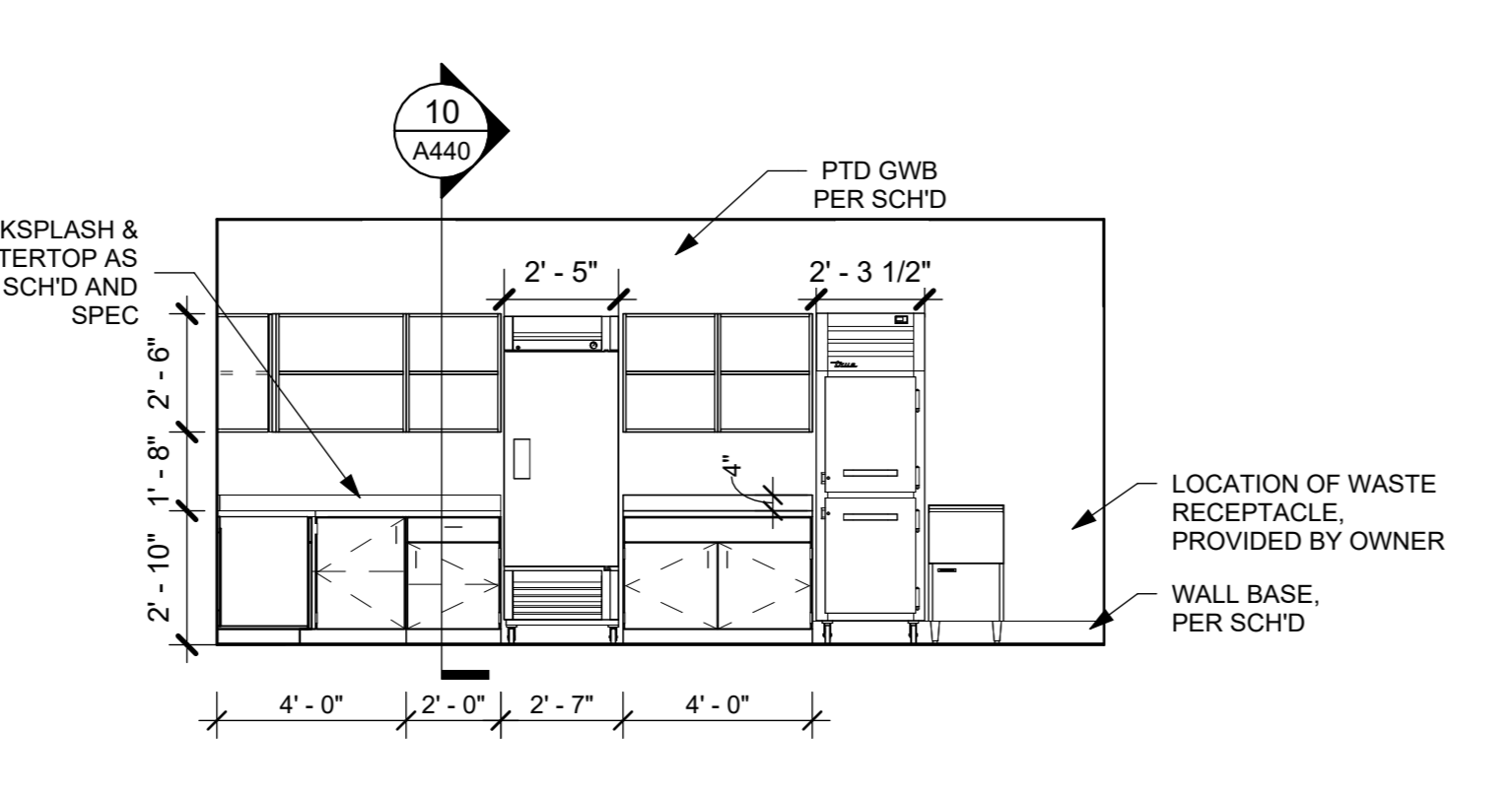
7 WOMENS 207 - EAST ELEVATION
1/4" = 1'-0"



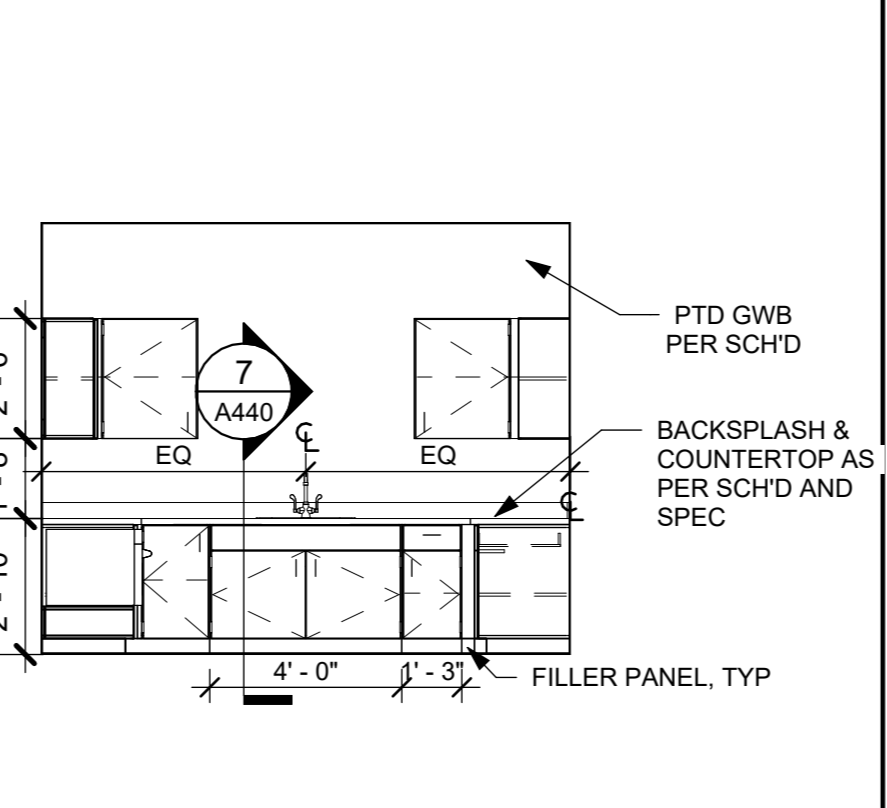
6 WOMEN 207 - WEST ELEVATION
1/4" = 1'-0"



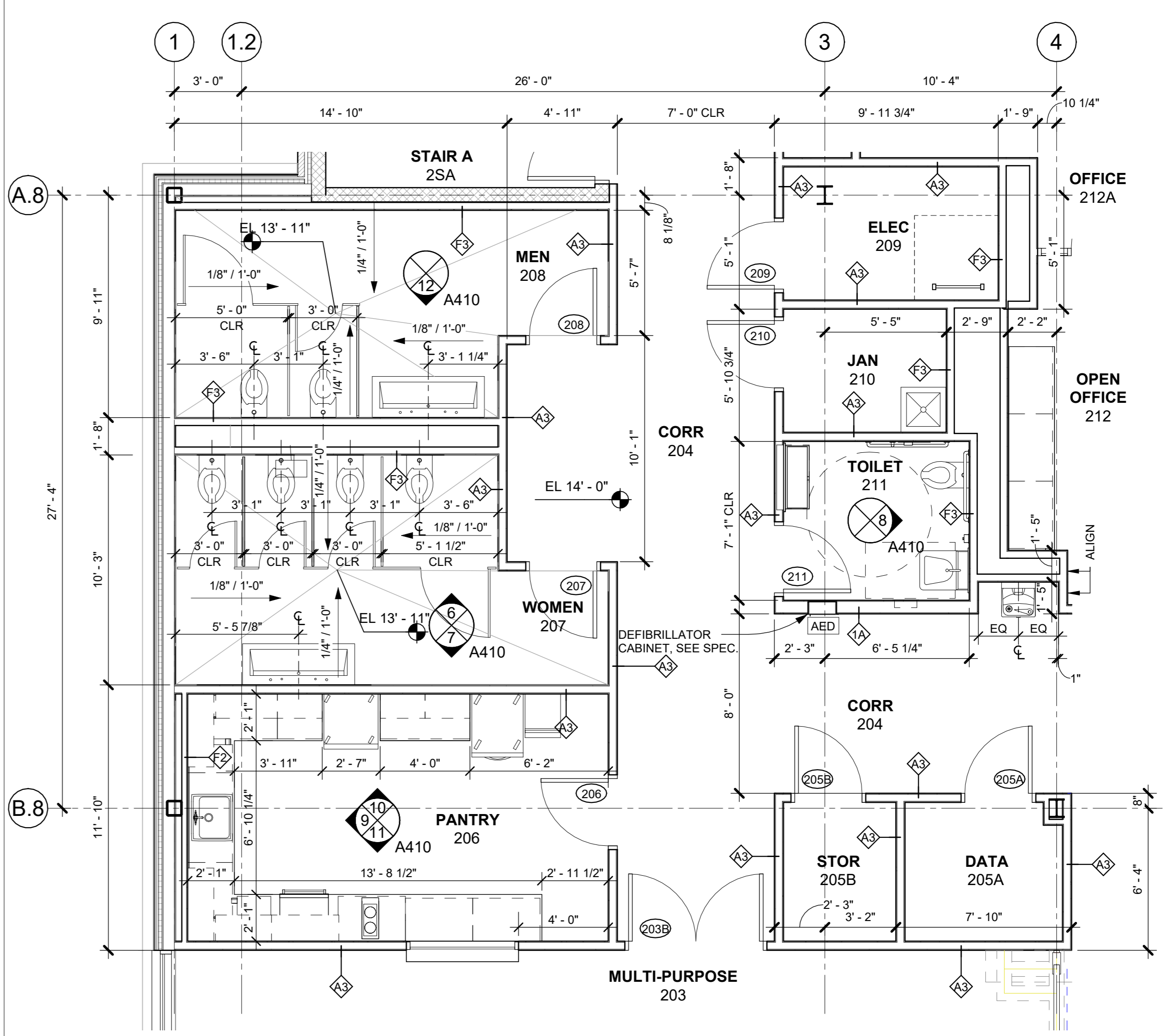
11 PANTRY 206 - EAST ELEVATION
1/4" = 1'-0"



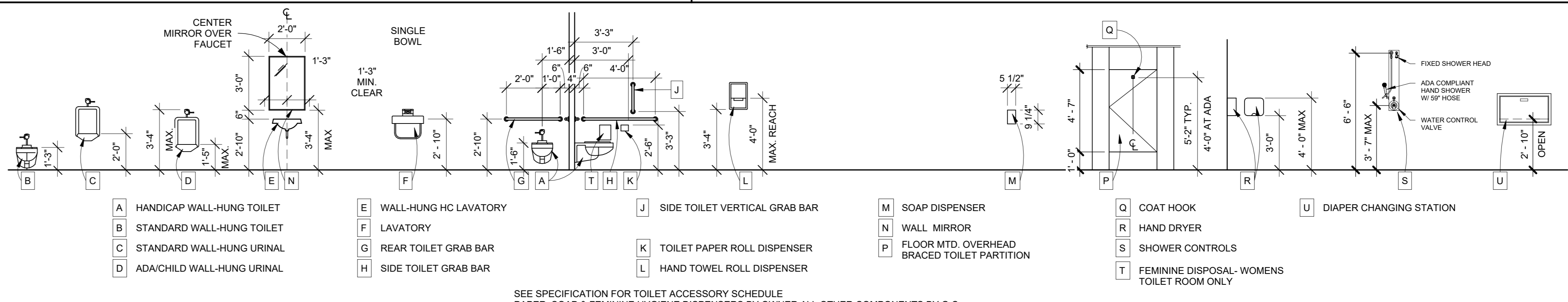
10 PANTRY 206 - WEST ELEVATION
1/4" = 1'-0"



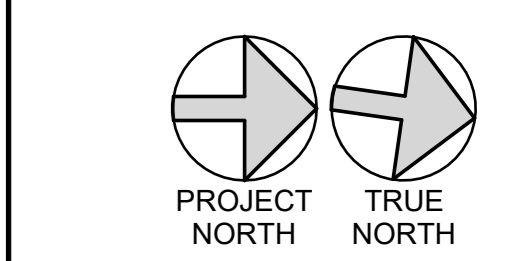
9 PANTRY 206 - SOUTH ELEVATION
1/4" = 1'-0"



2 2ND FLOOR MULTI-USER TOILET ROOMS
1/4" = 1'-0"



3 TOILET ROOM EQUIPMENT AND HEIGHTS
1/4" = 1'-0"



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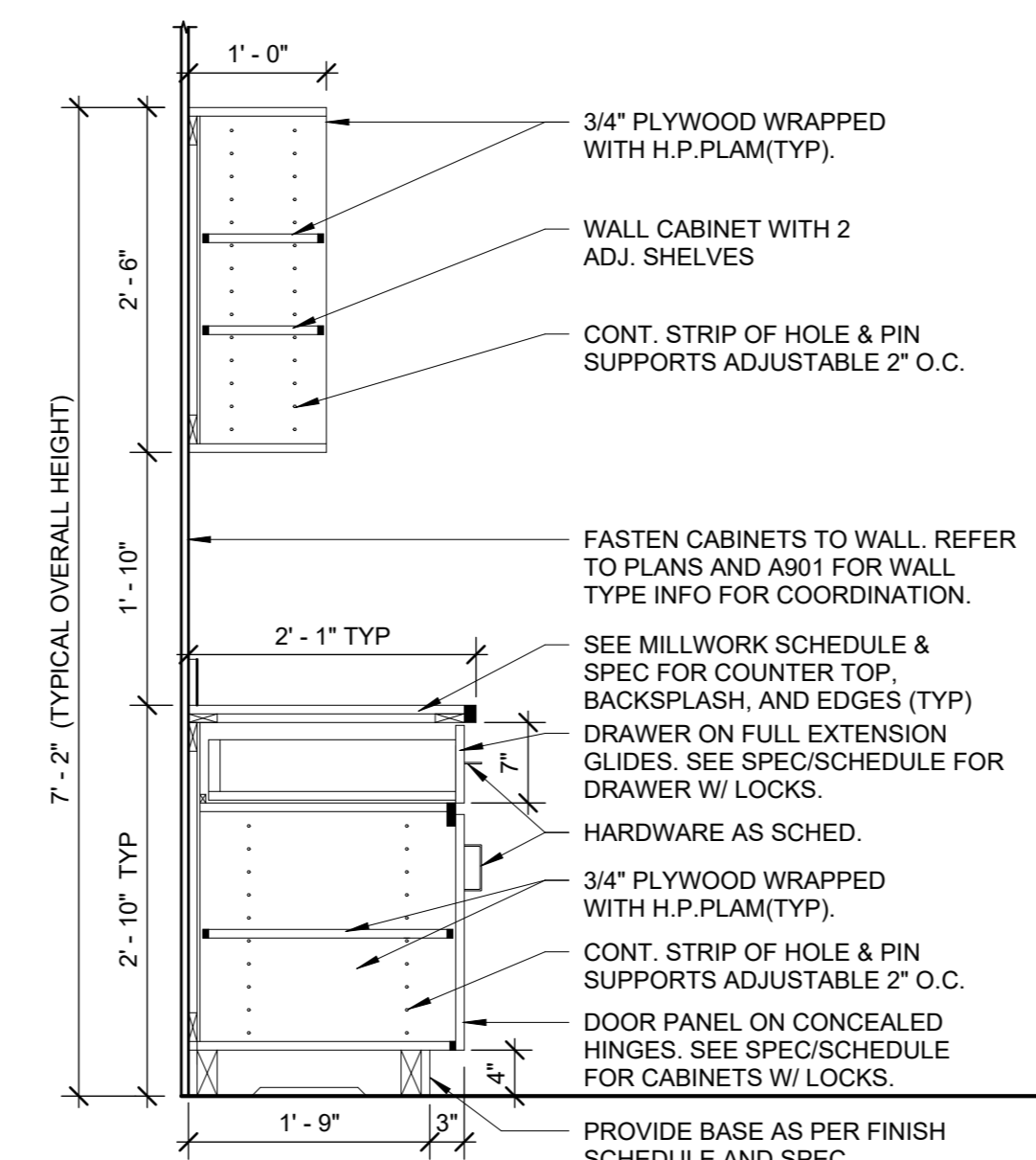
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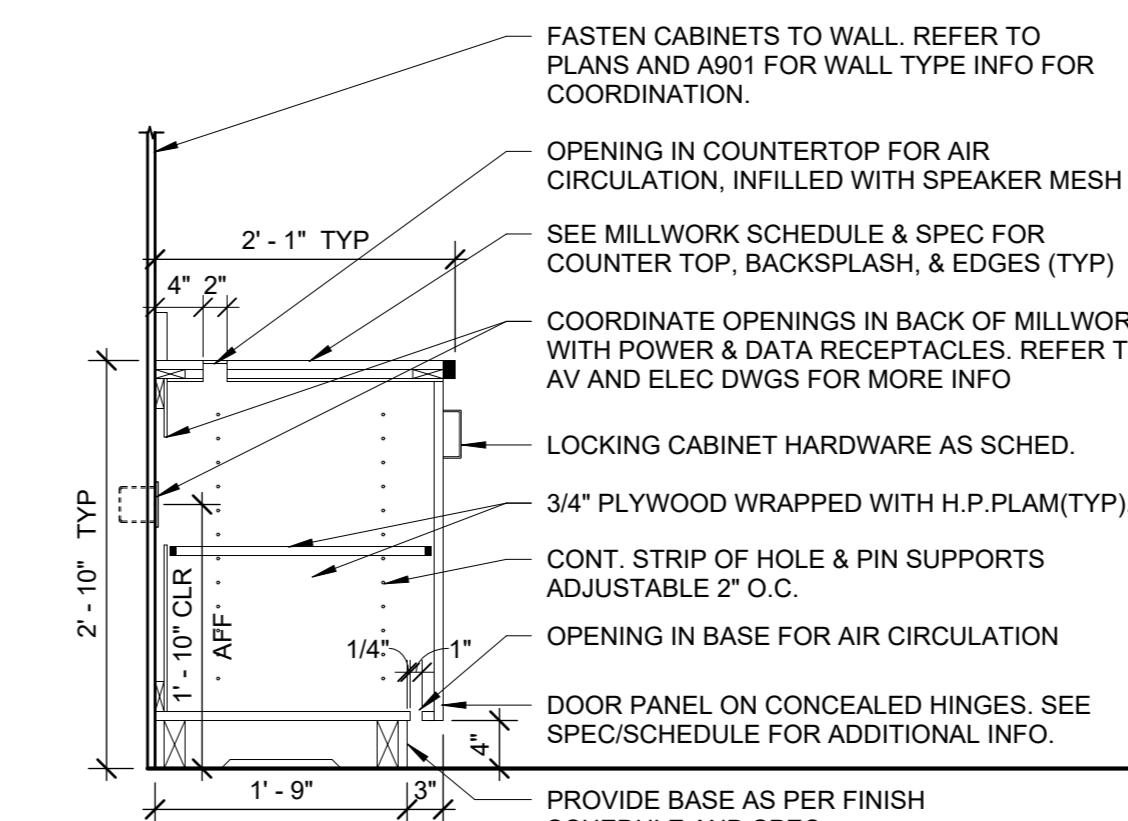
Professional Seal

7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
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1	03/31/2020	50% DESIGN DEVELOPMENT

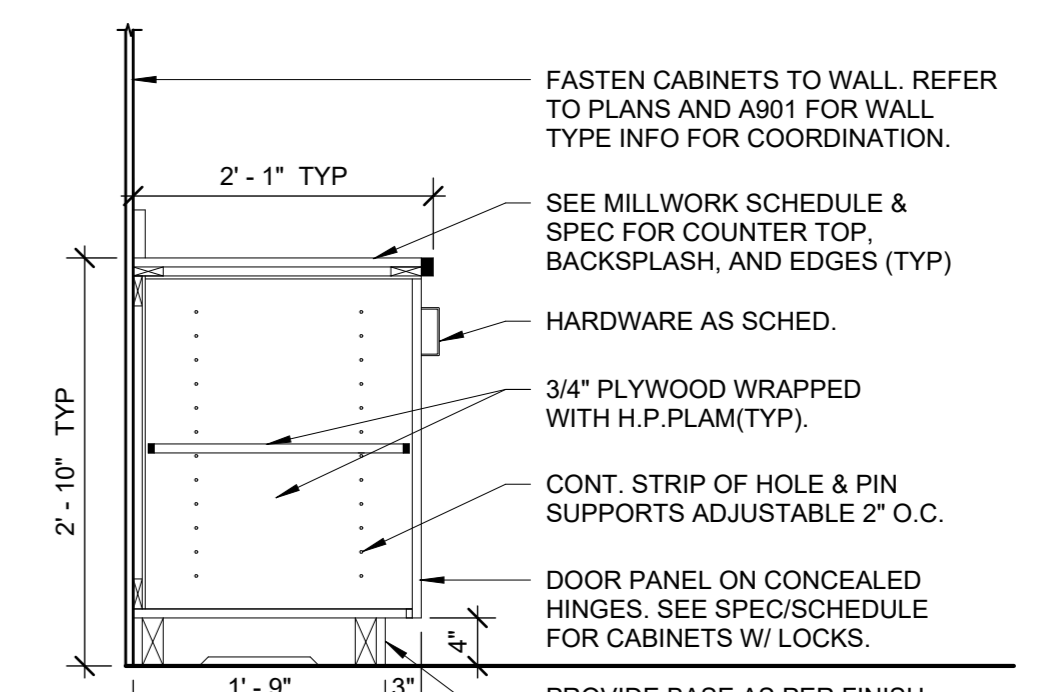
No. _____ Date _____ Issue _____	
Sheet Title	
TOILET ROOMS AND PANTRY - ENLARGED PLANS & INTERIOR ELEVATIONS	
Job No. 2020-1005	Date 12/22/23
Scale AS NOTED	Drawn / Checked Author Checker
Sheet Number	



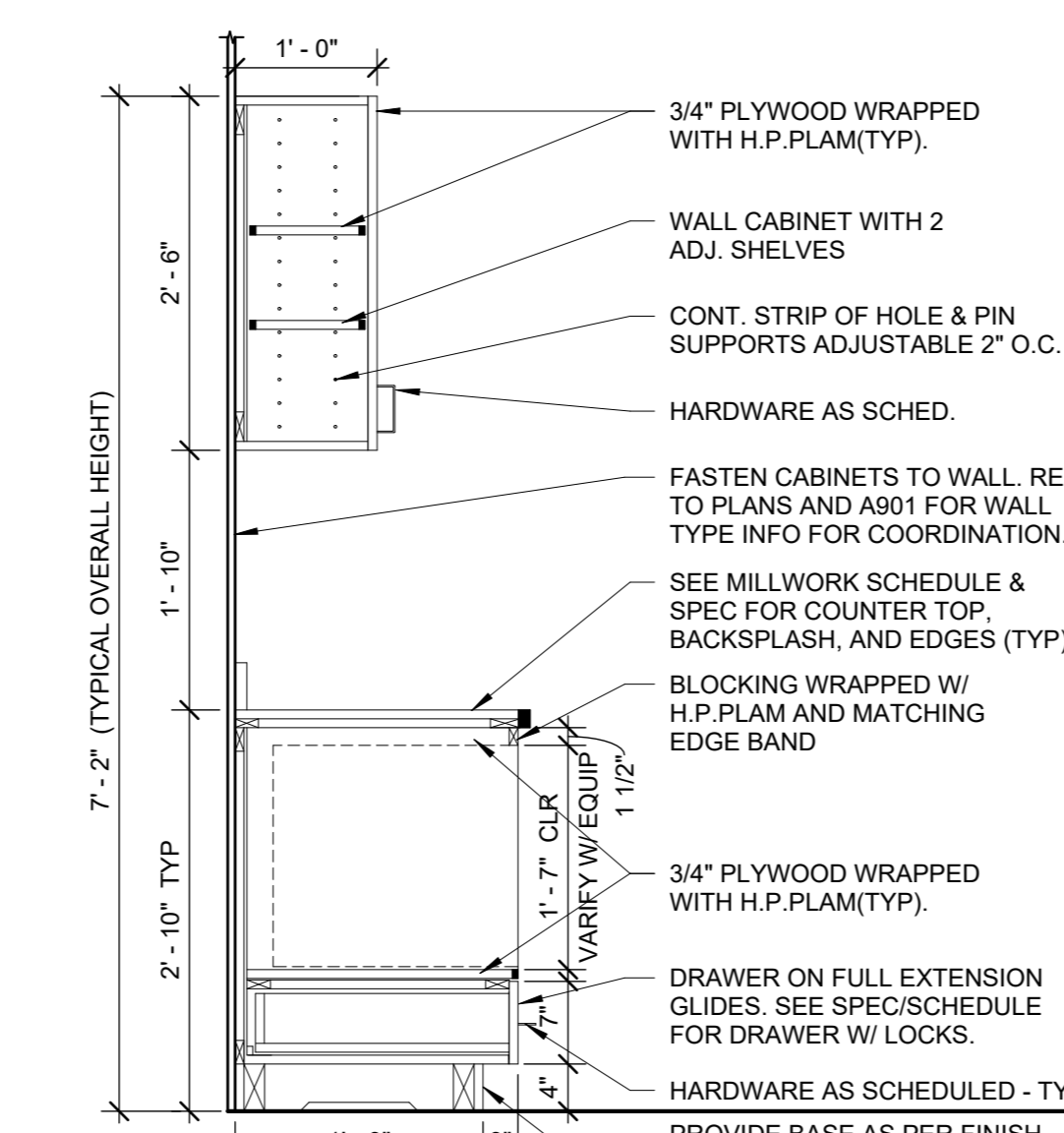
10 TYP. BASE CABINET W/ UPPER OPEN CABINET
3/4" = 1'-0"



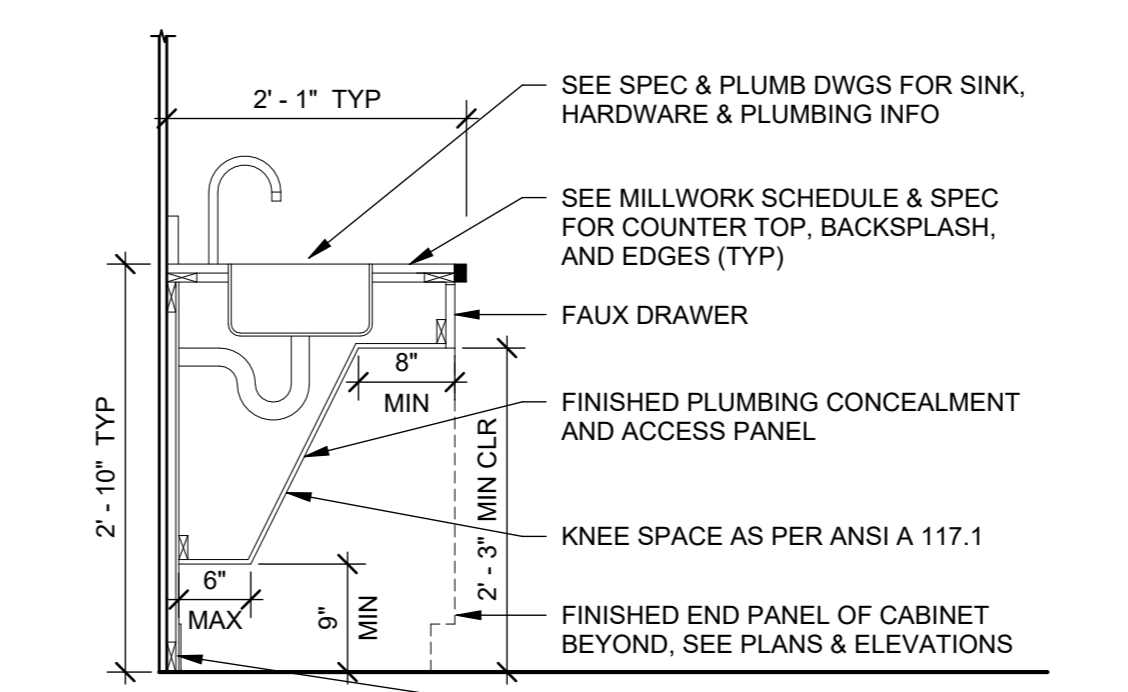
6 TYPICAL AV VENTILATED CABINET
3/4" = 1'-0"



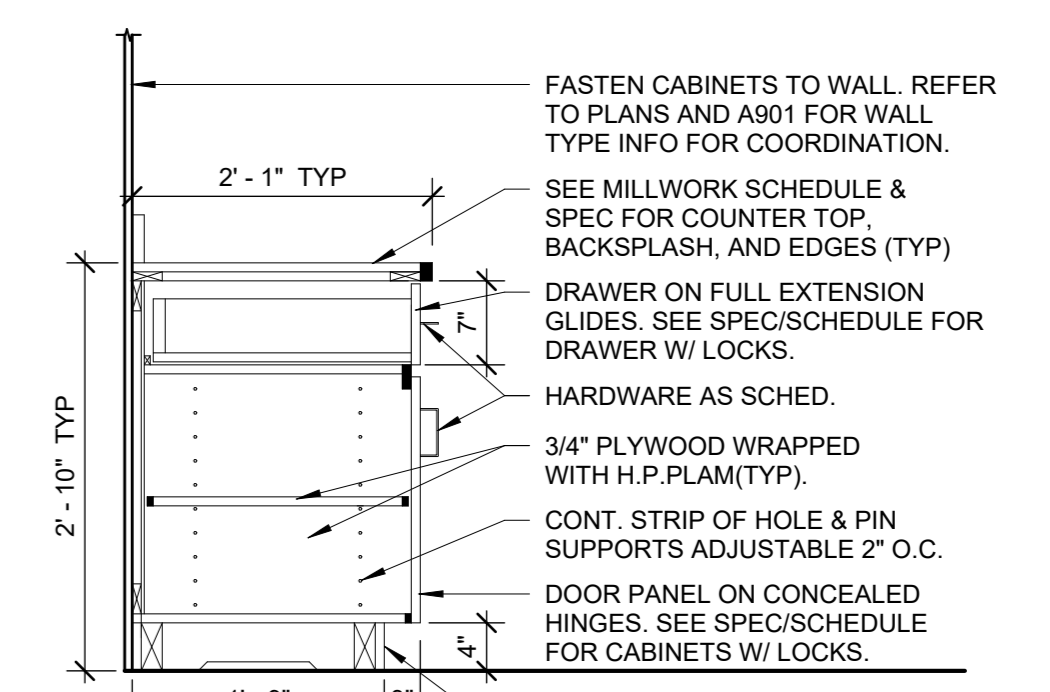
1 TYPICAL BASE CABINET WITH DOORS
3/4" = 1'-0"



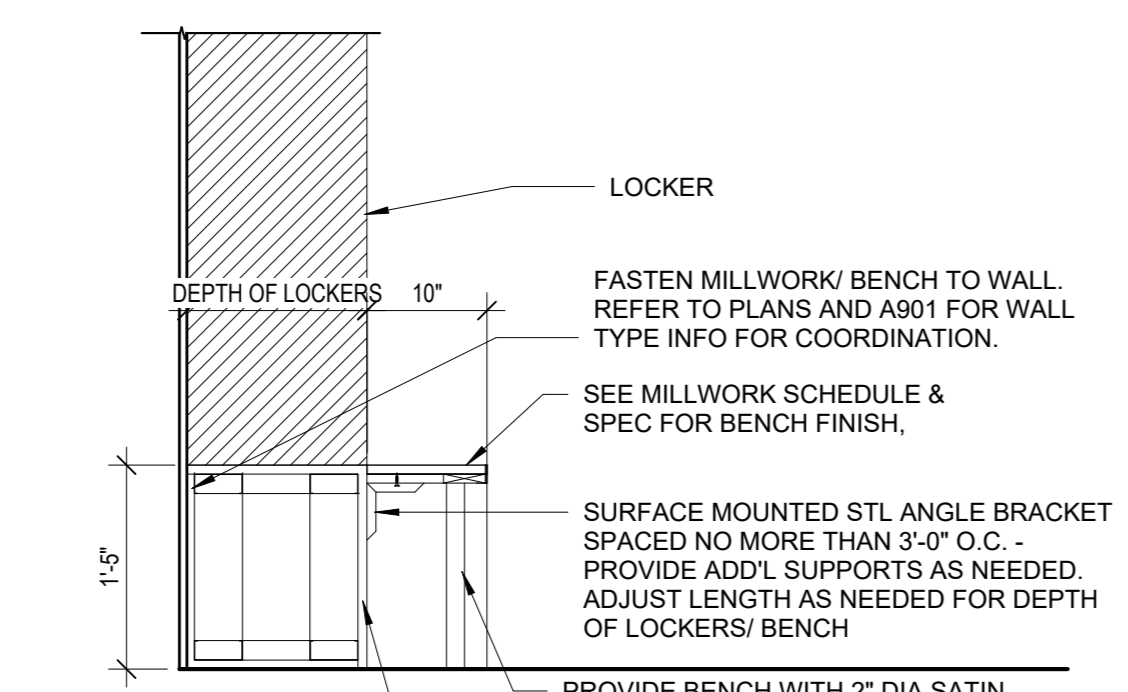
11 MICROWAVE BASE CABINET W/ UPPER CABINET
3/4" = 1'-0"



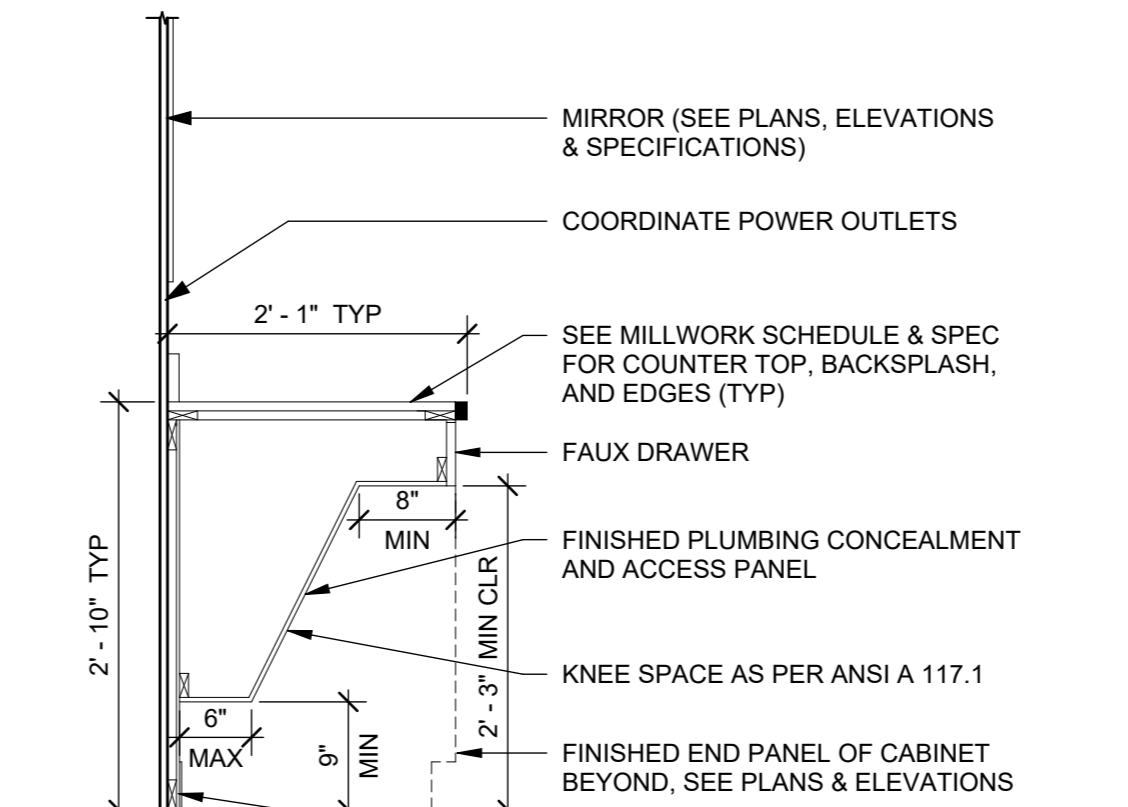
7 TYPICAL ADA SINK CONCEALMENT
3/4" = 1'-0"



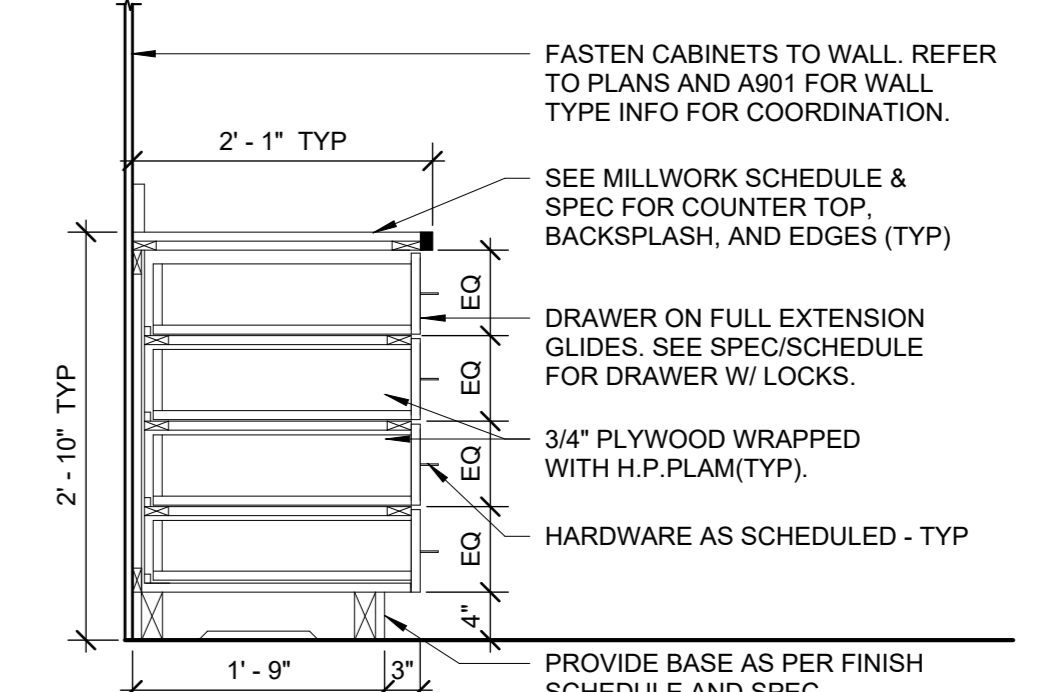
2 TYPICAL BASE CABINET WITH DOORS AND SINGLE DRAWER
3/4" = 1'-0"



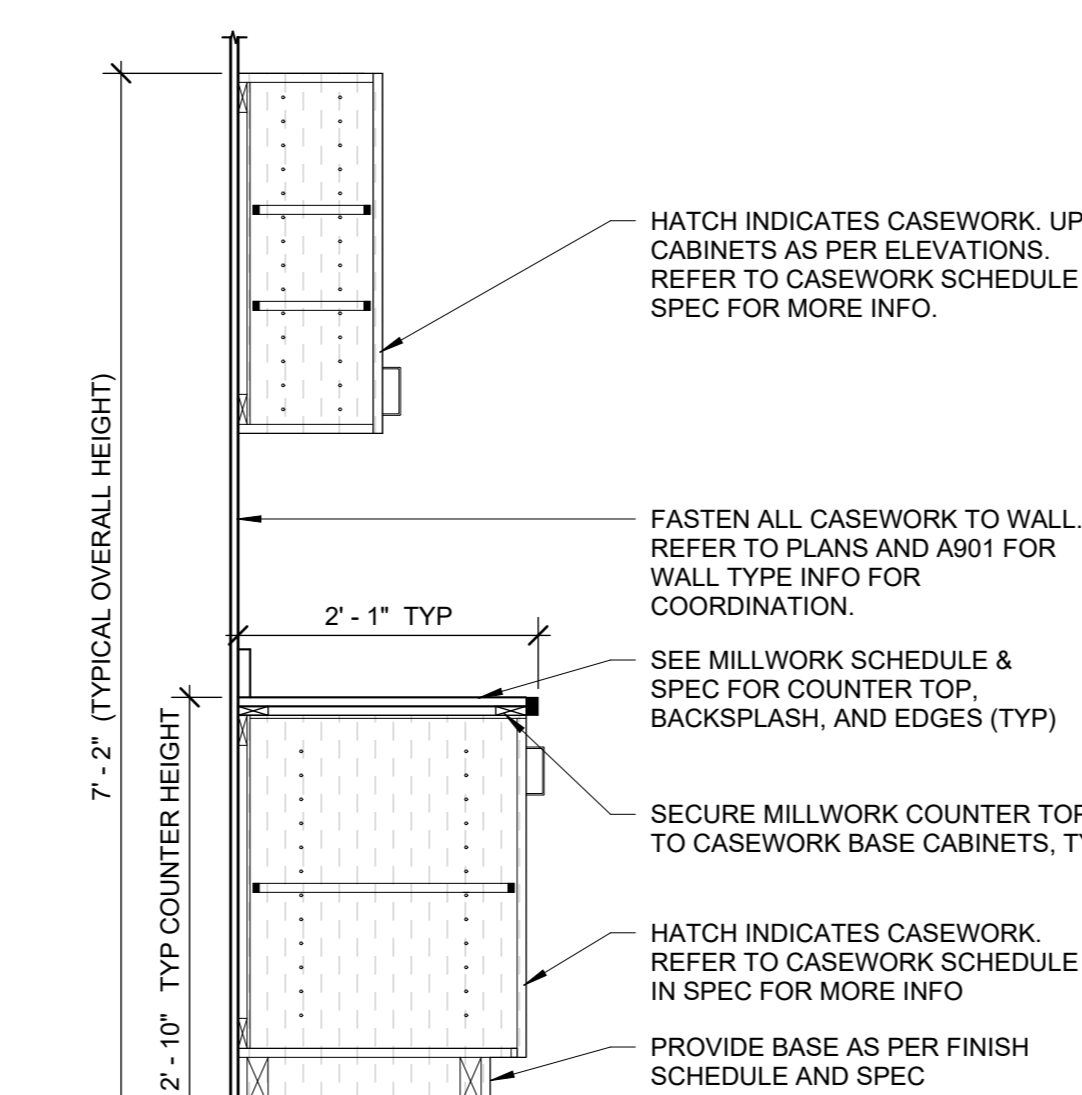
16 LOCKER MILLWORK/ BENCH
3/4" = 1'-0"



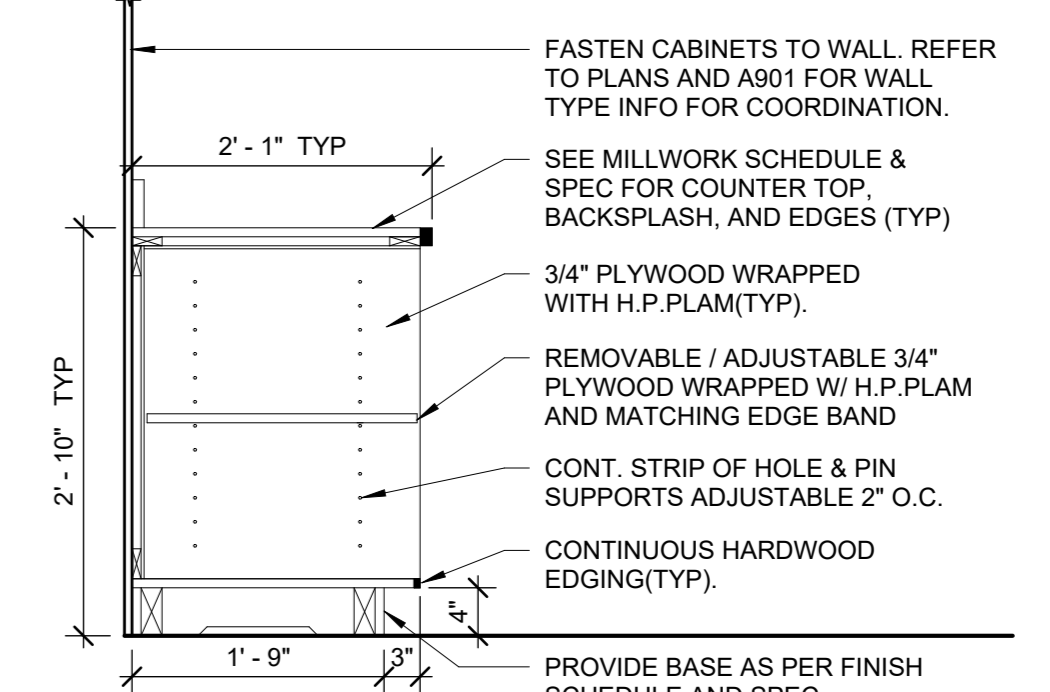
8 LOCKER ROOM GROOMING STATIONS
3/4" = 1'-0"



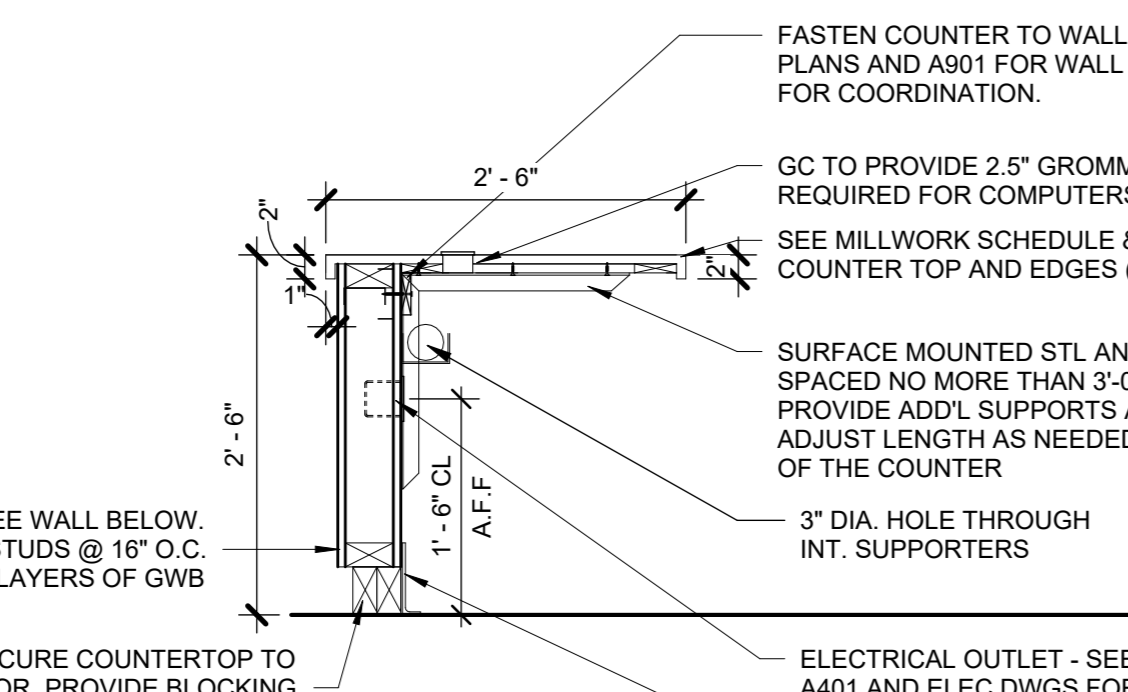
3 TYPICAL BASE CABINET WITH DRAWERS
3/4" = 1'-0"



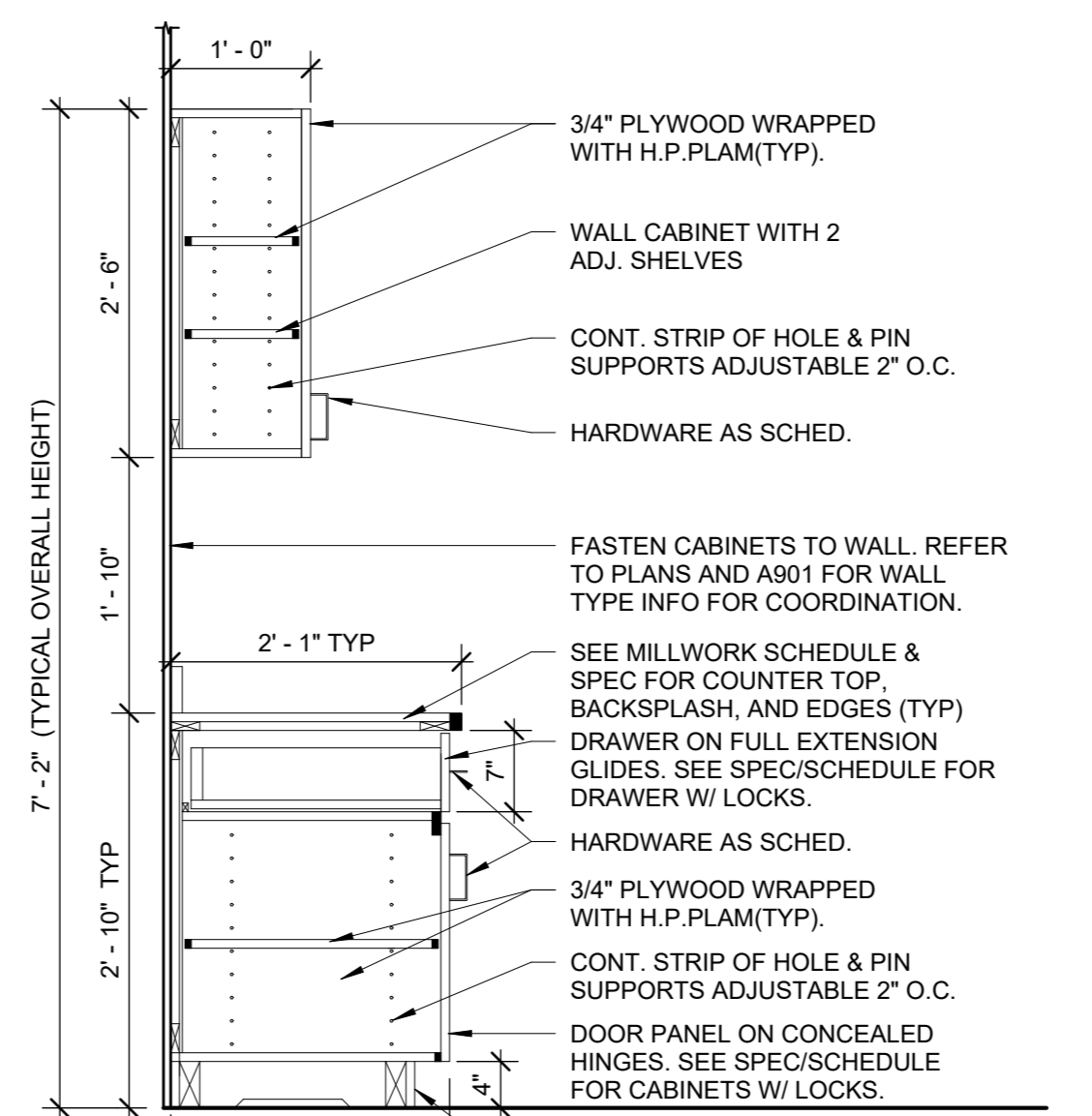
12 TYP. MILLWORK COUNTER W/ CASEWORK
3/4" = 1'-0"



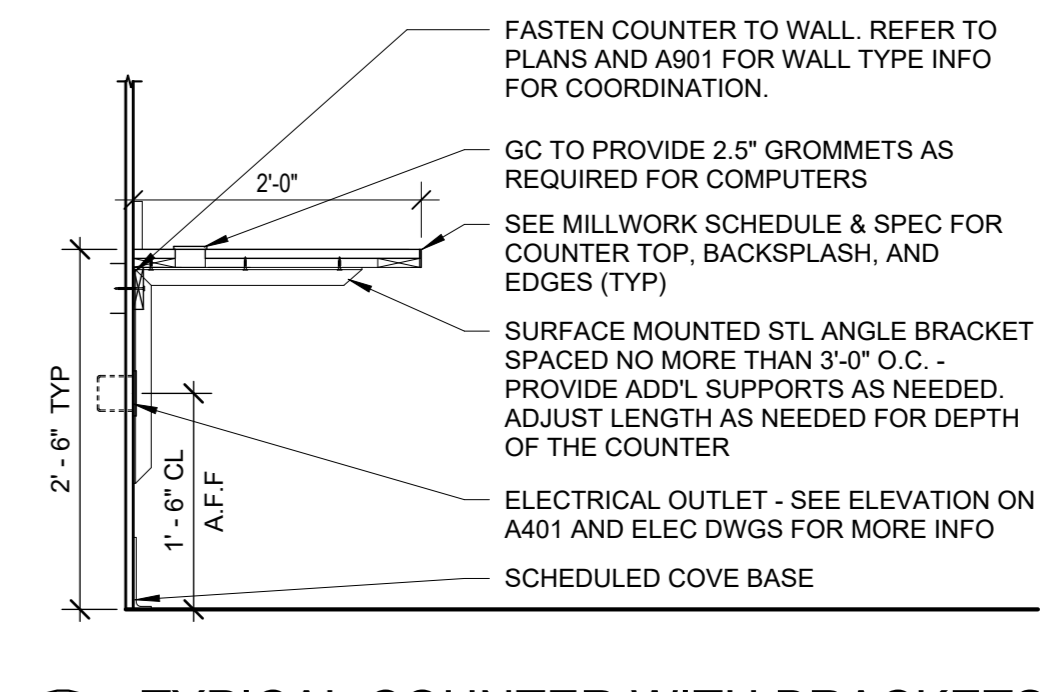
4 TYPICAL OPEN BASE CABINET
3/4" = 1'-0"



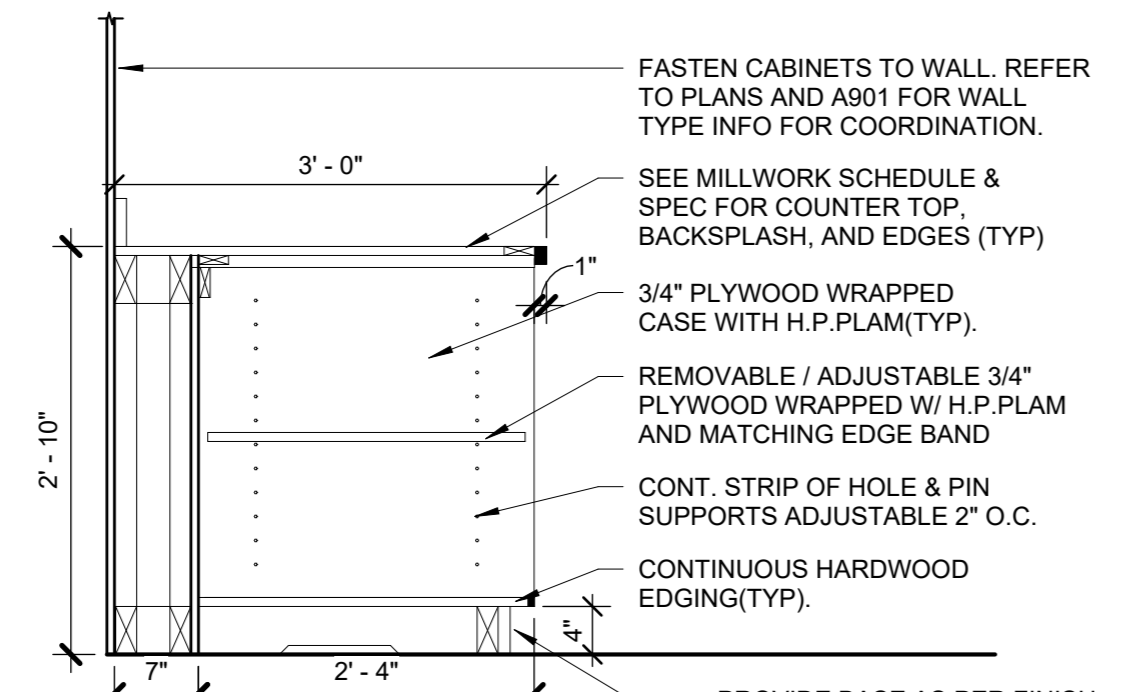
15 COUNTER WITH BRACKETS TYP.
3/4" = 1'-0"



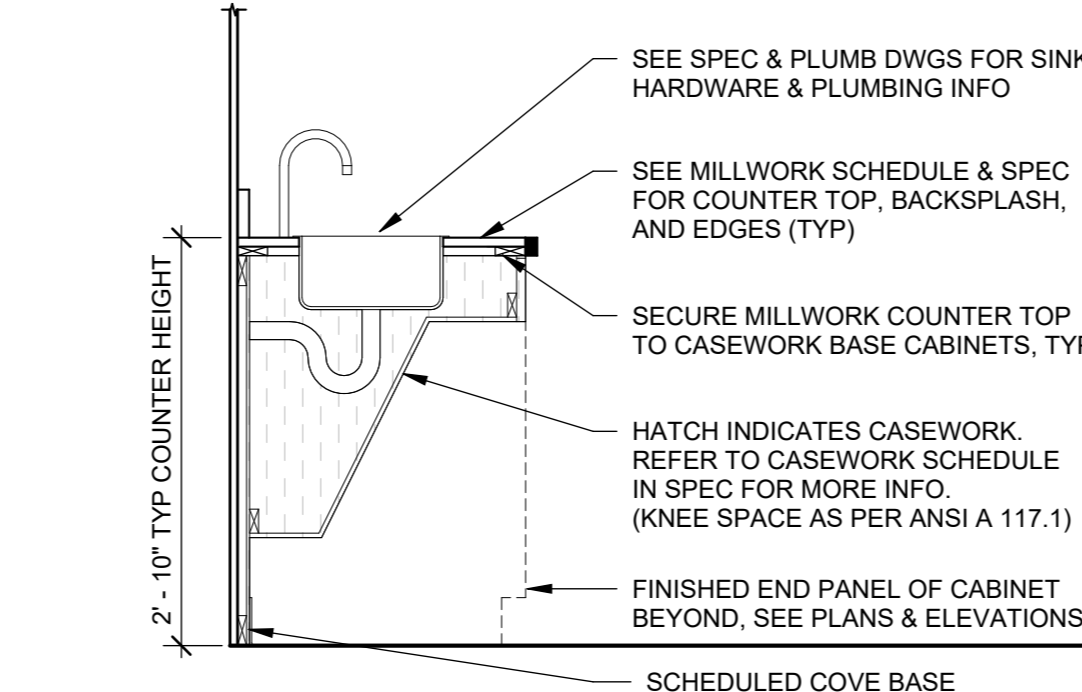
9 TYPICAL BASE CABINET WITH UPPER CABINET
3/4" = 1'-0"



5 TYPICAL COUNTER WITH BRACKETS
3/4" = 1'-0"



14 OPEN BASE CABINET TYP.
3/4" = 1'-0"



13 TYPICAL ADA SINK CASEWORK DETAIL
3/4" = 1'-0"

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Professional Seal		
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7	10/09/2024	CONFORMED SET
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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

**MILLWORK
DETAILS**

Job No.	2020-1005	Date	06/01/2020
Scale	AS NOTED	Drawn / Checked	- / -
Sheet Number	A440		

**HARRISON
RECREATION &
COMMUNITY
CENTER**

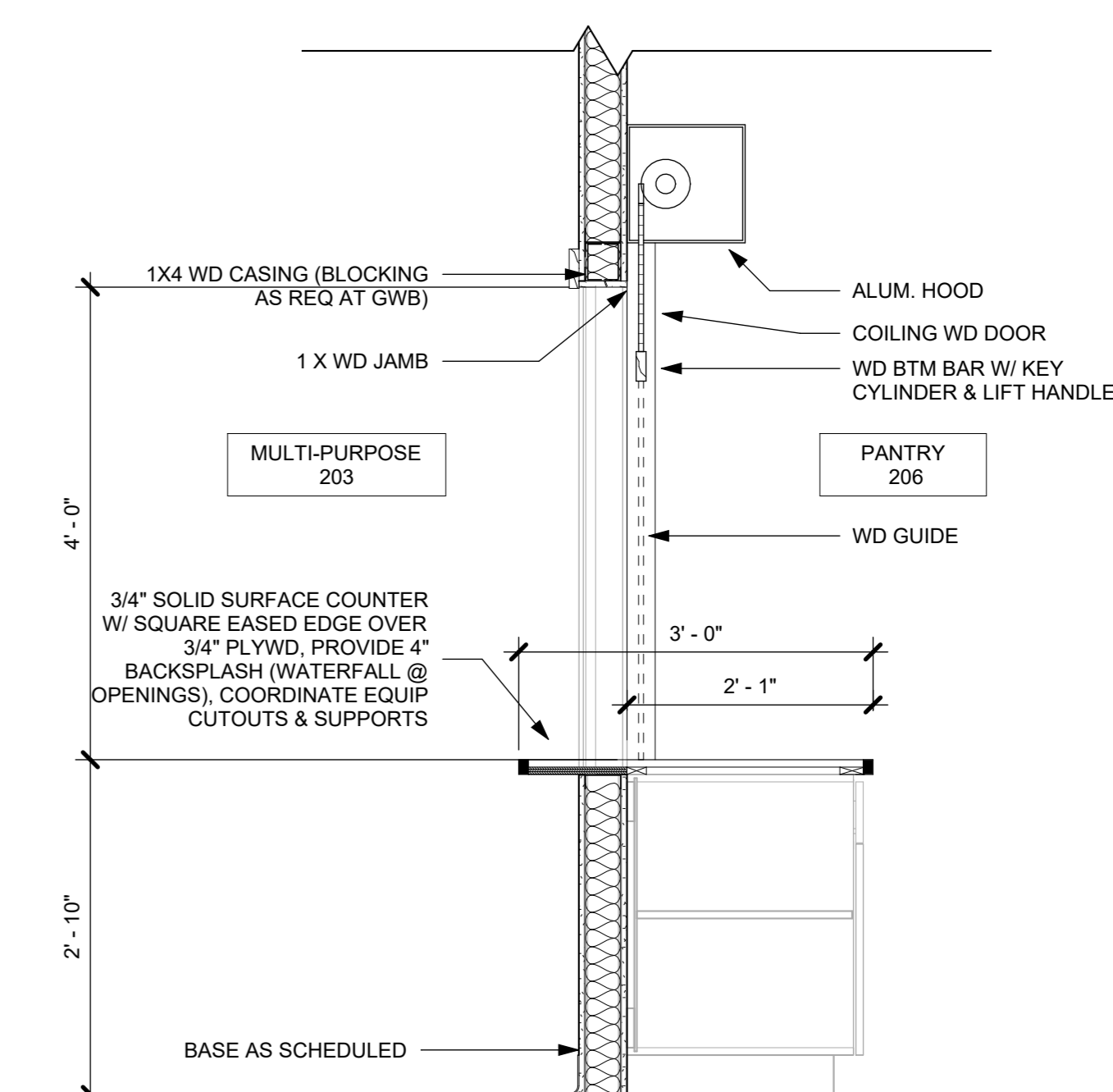
New Construction - Phase 2

Town / Village of Harrison

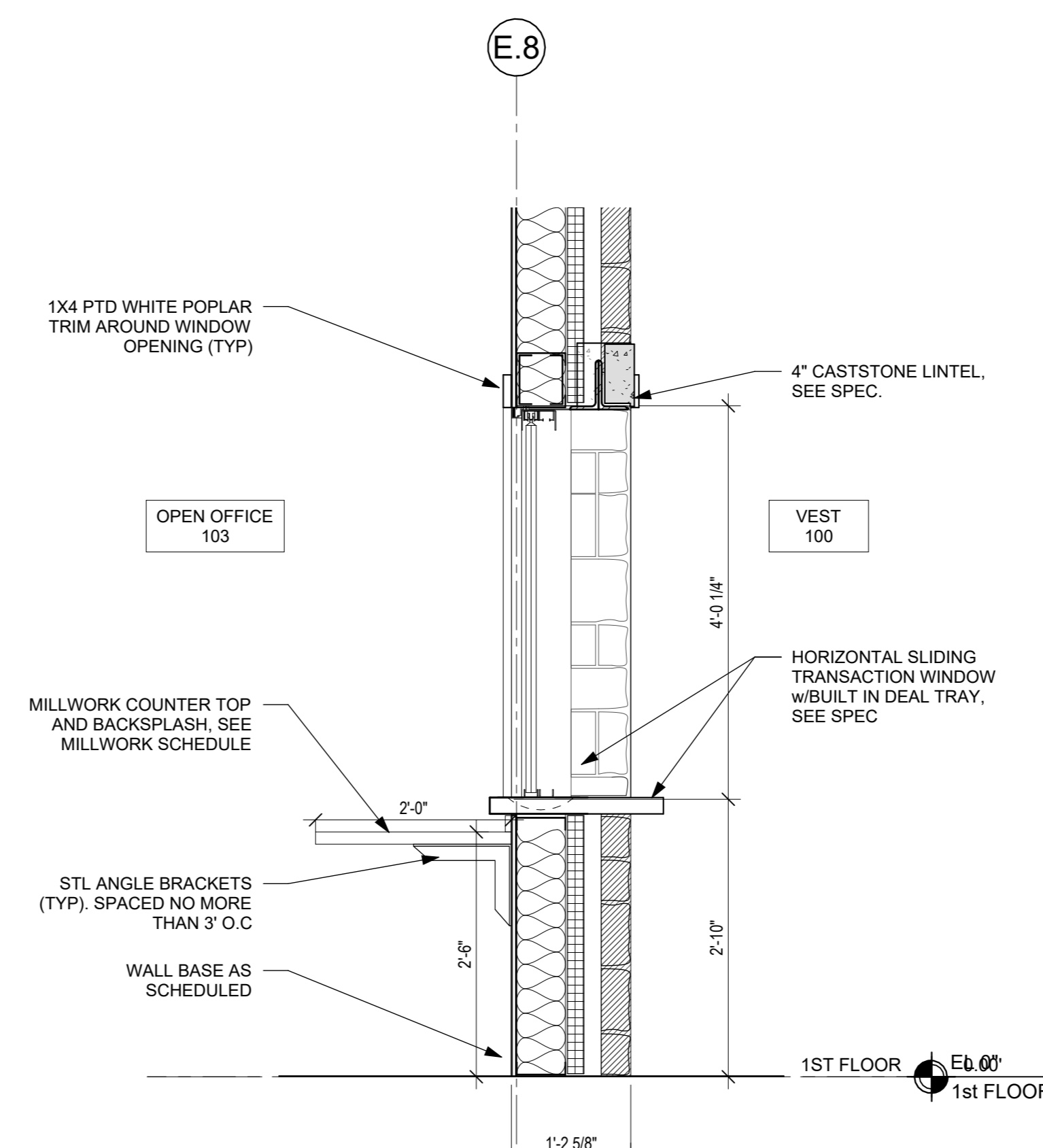
270 Harrison Avenue
Harrison, NY 10528

KG+D listen
imagine
build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

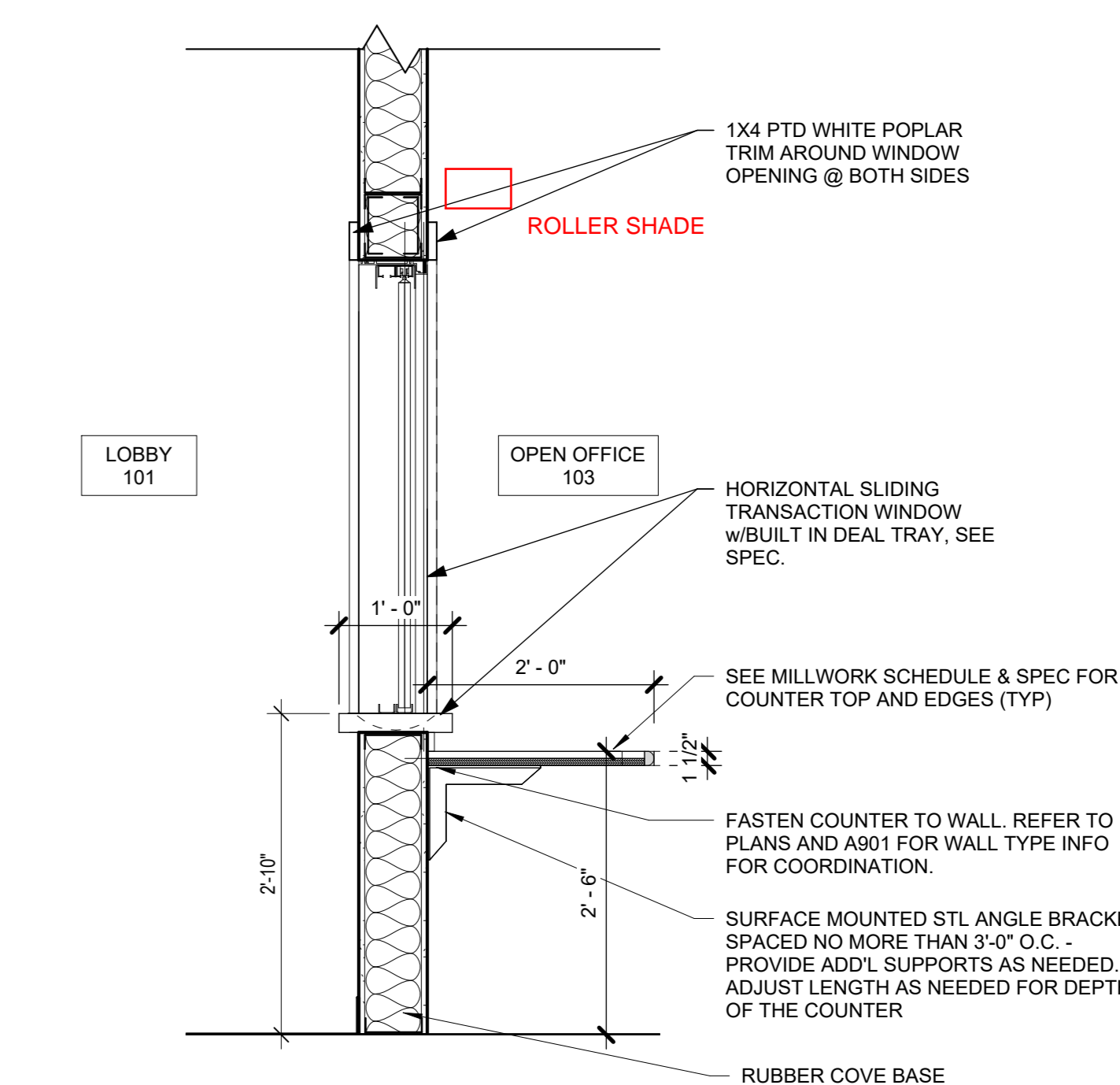
CONSTRUCTION DOCUMENTS



3 PANTRY 206 COUNTER DETAIL
3/4" = 1'-0"



2 TRANSACTION WINDOW @ VEST 1
3/4" = 1'-0"



1 TRANSACTION WINDOW @ OPEN OFFICE 103
3/4" = 1'-0"

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Professional Seal

7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

Sheet Title

**MILLWORK
DETAILS**

Job No. 2020-1005 Date 06/01/2020

Scale AS NOTED Drawn / Checked - -

Sheet Number

A441

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

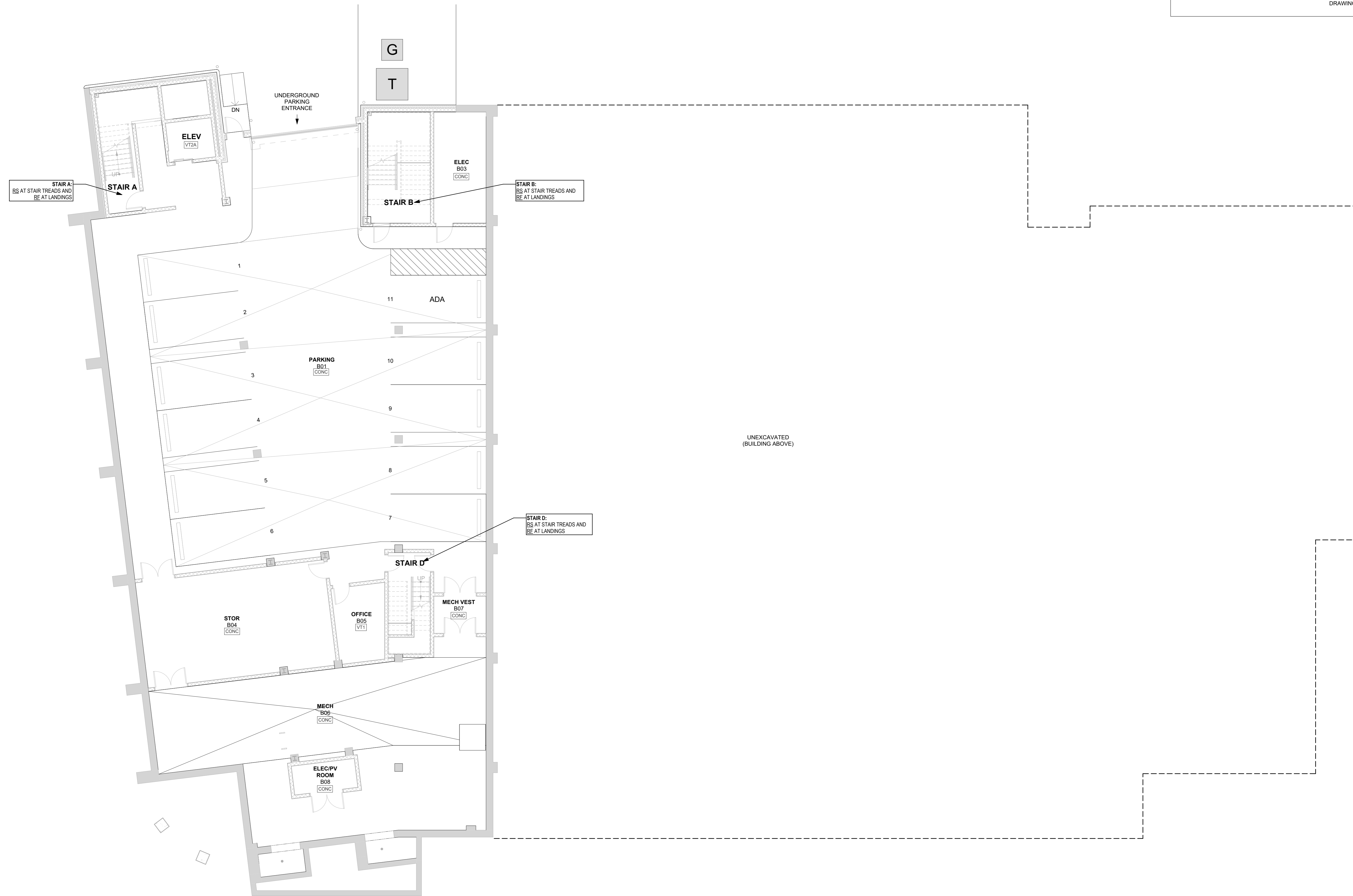
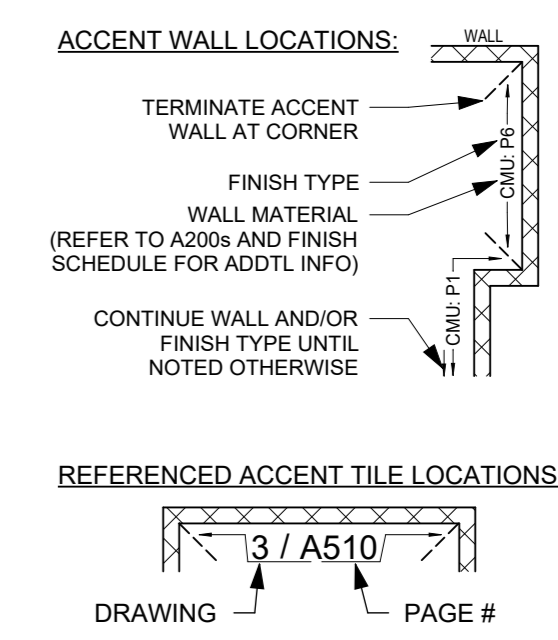
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CONSTRUCTION DOCUMENTS

FINISH PLAN LEGEND

LVT1 TAG INDICATES FLOOR FINISH TYPE.
↓ FLOOR FINISH ORIENTATION (LENGTH TO FOLLOW ARROW)
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4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

Sheet Title

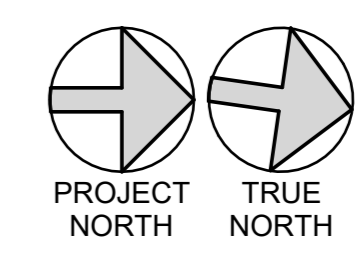
LOWER LEVEL FINISH PLAN

Job No. 2020-1005 Date 12/27/23

Scale AS NOTED Drawn / Checked - -

Sheet Number

A501



**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

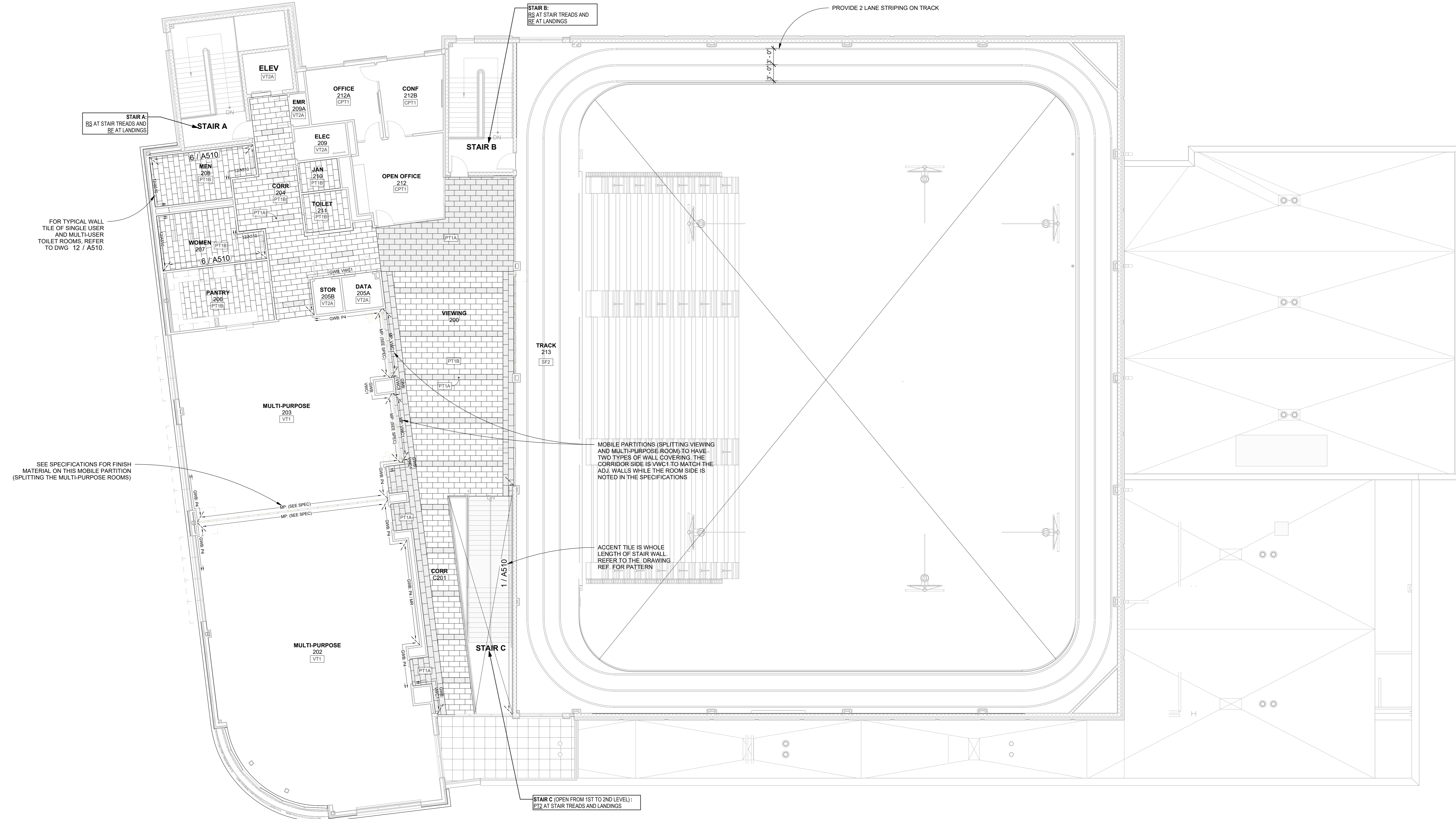
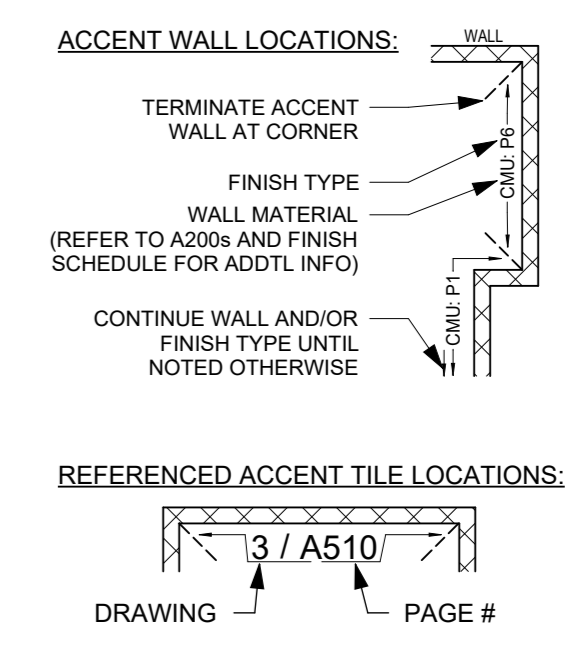
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Harrison, NY 10528

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CONSTRUCTION DOCUMENTS

FINISH PLAN LEGEND

- LVT1** TAG INDICATES FLOOR FINISH TYPE
- FLOOR FINISH ORIENTATION (LENGTH TO FOLLOW ARROW)
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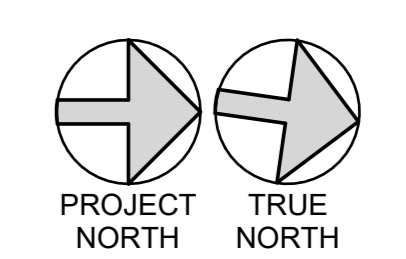
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

**2nd FLOOR PLAN
FINISH PLAN**

Job No. 2020-1005 Date 12/27/23
Scale AS NOTED Drawn / Checked - -

Sheet Number **A503**



**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

ROOM #	ROOM NAME	Finish Schedule												COMMENTS			
		FLOOR		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING					
		FIN	BASE	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN				
PARKING																	
B01	PARKING	CONC	-	EX	-	EX	-	EX	-	EX	-	EX	-	OTS	-	. P7	OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING
B02	PARKING	CONC	-	EX	-	EX	-	EX	-	EX	-	EX	-	OTS	-	. P7	OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING
B02A	OPEN VEST	CONC	-	CMU	EPO	- / CMU	- / EPO	CMU	EPO	CMU	EPO	CMU	EPO	OTS	-	. P7	OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING
B03	ELEC	CONC	-	EX	P4	CMU	EPO	CMU	EPO	EX / CMU	EPO	OTS	-	. P7		OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING	
B04	STOR	CONC	RB3	CMU	P4	CMU	EPO	EX	EPO	CMU	EPO	OTS	-	. P7		OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING	
B05	OFFICE	VT1	RB2	CMU	P4	CMU	P4	CMU	P1	CMU	P4	ACT1	FF				
B06	MECH	CONC	-	EX	P4	CMU	P4	EX	P4	CMU	P4	OTS	-	. P7		OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING	
B07	MECH VEST	CONC	-	EX	P4	CMU	P4	CMU	P4	CMU	P4	OTS	-	. P7		OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING	
B08	ELEC/PPV ROOM	CONC	-	CMU	P4	CMU	P4	CMU	P4	CMU	P4	OTS	-	. P7		OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING	
BSA	STAIR A	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	OTS	P10, P1			RS AT STAIR TREADS AND RF AT LANDINGS - PAINTED STRUCTURE, P10 UNDER LANDING, P1 UNDER STAIRS	
BSB	STAIR B	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	OTS	P10, P1			RS AT STAIR TREADS AND RF AT LANDINGS - PAINTED STRUCTURE, P10 UNDER LANDING, P1 UNDER STAIRS	
BSD	STAIR D	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	OTS	P10, P1			RS AT STAIR TREADS AND RF AT LANDINGS - PAINTED STRUCTURE, P10 UNDER LANDING, P1 UNDER STAIRS	
No. 1	ELEV	VT2A	RB2	-	-	-	-	-	-	-	-	-	-	-	-	-	ELEV MANUF. TO PROVIDE WALL AND CEILING FINISHES
1st FLOOR																	
1SA	STAIR A	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	ACT1 / OTS	FF / P1			REFER TO RCPS FOR ACT LOCATION - P1 UNDER STAIR ASSEMBLY	
1SB	STAIR B	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	ACT1 / OTS	FF / P1			REFER TO RCPS FOR ACT LOCATION - P1 UNDER STAIR ASSEMBLY	
1SC	STAIR C	PT2	-	-	-	-	-	-	-	-	-	-	-	-	-	FOR WALL AND CEILING FINISHES, REFER TO ROOMS LOBBY AND VIEWING	
1SD	STAIR D	RF / RS	RB2	CMU	P4	CMU	P4	GWB	P4	GWB	P4	GWB	P10			GWB CEILING MOUNTED TO THE BOTTOM OF STAIR C (FOLLOWS THE SLOPE OF STAIRS C)	
100	VEST	WOM	RB2	CW	FF	CW	FF	CW	FF	SV	FF	GWB	P10				
101	LOBBY	PT1A, PT1B	PTB / CT1F	CB / GWB	(A510 ACCENTS) / P4	GWB / CW	P4 / FF	GWB / CW	P4 / FF	CB / GWB	(A510 ACCENTS)	ACT1 / GWB	FF / P10			REFER TO A502 AND A510 FOR TILE ACCENT WALLS	
103	OPEN OFFICE	CPT1	RB2	GWB	P4	GWB	P1	GWB	P4	GWB	P4	ACT1	FF				
103A	COPY/PRINT	CPT1	RB2	GWB	P4	- / GWB	- / P4	GWB	P4	GWB	P4	ACT1	FF				
103B	CONF	CPT1	RB2	GWB	P9, P4	GWB	P4	GWB	P4	GWB	P4	ACT1 / GWB	FF / P10			P9 ACCENT AT MILLWORK BACK WALL	
104	JAN	PT1B	PTB	GWB	EPO	GWB	EPO	GWB	EPO	GWB	EPO	ACT1	FF				
105	TOILET	PT1B	CT2B 6"	CB	CT2A FH	CB	CT2A FH	CB	CT2A FH	CB	CT2A FH	GWB	EPO			REFER TO 12/A510 FOR THE TYPICAL TOILET ROOM TILED WALL	
106	RECREATION GAME RM	VT3	RB2	GWB	P9, P4	GWB	P4	GWB	P4	GWB	P4	ACT1 / GWB	FF / P10			P9 ACCENT AT MILLWORK BACK WALL	
107	COMPUTER/GAMING	VT2A, VT2B, VT2C	RB2	GWB	VWC2	GWB	P2, P4	GWB	P4	GWB	P4	ACT1 / GWB	FF / P10			P2 ACCENT AT COUNTER NOOK BACK WALL	
107A	AV CLOS	VT2B	RB3	CMU	P4	CMU	P4	CMU	P4	CMU	P4	ACT1	FF				
108	ARTS/CRAFTS	VT4A, VT4B, VT4C	RB2	GWB	P4	GWB	P4	GWB	P4	GWB	P6, P4	ACT1	FF			P6 ACCENT AS PER A502	
108A	STOR	VT4A	RB2	CMU	P4	GWB	P4	GWB	P4	GWB	P4	ACT1	FF				
109	WOMEN	PT1B	CT2B 6"	CB	CT2A FH	CB	(A510 ACCENT)	CB	CT2A FH	CB	CT2A FH	GWB	EPO			REFER TO A502 AND A510 FOR TILE WALL INFO	
110	MEN	PT1B	CT2B 6"	CB	CT2A FH	CB	CT2A FH	CB	CT2A FH	CB	(A510 ACCENT)	GWB	EPO			REFER TO A502 AND A510 FOR TILE WALL INFO	
111	DATA	VT2A	RB3	GWB	P4	GWB	P4	GWB	P4	GWB	P4	ACT1	FF				
112	MEETING	VT1	RB2	GWB	P9	GWB	P4	GWB	P4	GWB	P4	GWB	P10			P9 ACCENT AT MONITOR/A WALL	
112A	MECH	VT2A	RB3	CMU	P4	GWB	P4	GWB	P4	GWB	P4	ACT1	FF				
113	GYMNASIUM	SF1	RB1	CMU / ACMU	WP 74" : P8, P4, P1 / P1	CMU / ACMU	WP 74" : P8, P4, P1 / P1	CMU / ACMU	WP 74" : P8, P4, P1 / P1	CMU / ACMU	WP 74" : P8, P4, P1 / P1	OTS : AD	P3, P4 : P7			REFER TO A403 AND A404 FOR MORE WALL INFO - STRUCTURE PAINTED AS PER ELEVATIONS	
113A	STOR	SF1	RB3	CMU	P4	CMU	P4	CMU	P4	CMU	P4	OTS	P10				
113C	ELEC	PC	RB3	CMU	P4	GWB	P4	CMU	P4	GWB	P4	OTS	P10				
113D	STOR	SF1	RB3	CMU	P4	GWB	P4	CMU	P4	CMU	P4	OTS	P10				
113E	ELEC	PC	RB3	GWB	P4	GWB	P4	CMU	P4	GWB	P4	OTS	P10				
113F	STOR	SF1	RB3	GWB	P4	GWB	P4	CMU	P4	GWB	P4	OTS	P10				
114	EAST CORRIDOR	PT1A, PT1B	PTB	GWB / CW	P4 / FF	GWB / CW	P4 / FF	GWB / CW	P4 / FF	GWB	P4	ACT1 / GWB	FF / P10				
115	LOCKER CORRIDOR	PT1A, PT1B	PTB	GWB	P4, VWC1	GWB / CW	P4 / FF	CMU / GWB	P4 / P4, VWC1	CMU / GWB	P4 / P4, VWC1	ACT1 / GWB	FF / P10			VWC1 AT COLUMN BUMP OUTS INDICATED ON A502	
116	WOMEN	PT1A, PT1C	CT2B 6"	CB	(A510 ACCENTS)	CB	(A510 ACCENTS)	CB	(A510 ACCENTS)	- / CB	(A510 ACCENTS)	GWB	EPO			REFER TO A502 AND A510 FOR TILE WALL INFO	
117	WOMENS LOCKERS	PT1C	CT2B 6"	CB	(A510 ACCENT)	CB	(A510 ACCENT)	CB	(A510 ACCENT)	CB	(A510 ACCENT)	GWB	EPO			REFER TO 11/A510 FOR THE TYPICAL LOCKER ROOM TILED WALL	
118	FAMILY TOILET	PT1B	CT2B 6"	CB	(A510 ACCENT) / CT3	CB	(A510 ACCENT)	CB	(A510 ACCENT)	CB	(A510 ACCENT)	GWB	EPO			CT3 ACCENT AT SINK BACK WALL ONLY - REFER TO 11/A510 FOR THE TYPICAL LOCKER ROOM TILED WALL	
119	JAN	PT1A	PTB	GWB	EPO	GWB	EPO	GWB	EPO	GWB	EPO	OTS	P10				
120	MEN	PT1A, PT1C	CT2B 6"	CB	(A510 ACCENTS) - / CB	- / (A510 ACCENTS)	CB	(A510 ACCENTS)	CB	(A510 ACCENTS)	CB	(A510 ACCENTS)	GWB	EPO			REFER TO A502 AND A510 FOR TILE WALL INFO
121	MENS LOCKERS	PT1C	CT2B 6"	CB	(A510 ACCENT)	CB	(A510 ACCENT)	CB	(A510 ACCENT)	CB	(A510 ACCENT)	GWB	EPO			REFER TO 11/A510 FOR THE TYPICAL LOCKER ROOM TILED WALL	
122	MECH	CONC	-	GWB	P4	GWB	P4	GWB	P4	GWB	P4	OTS	-				
123	FITNESS	SF3	RB3	GWB / CW	P4 / FF	GWB	P4	CMU / GWB	P4 / P2, MR	GWB	P2, P4	OTS : AD / GWB	P4 : P7 / P10			REFER TO A502 FOR P2 LOCATIONS - REFER TO ELEVATIONS FOR MIRROR PLACEMENT	
123A	STOR	SF3	RB3	GWB	P4	GWB	P4	CMU	P4	GWB	P4	ACT1	FF				
C101	CORR	PT1A, PT1B	PTB	GWB	P4, VWC1	- / GWB	- / P4, VWC1	GWB	P4, VWC1	GWB / CW	P4 / FF	ACT1 / GWB	FF / P10			REFER TO A502 FOR VWC1 LOCATIONS	
C102	CORR	PT1A, PT1B	PTB	GWB	P4	GWB	VWC1	-	-	GWB	P4	ACT1 / GWB	FF / P10			REFER TO A502 FOR VWC1 LOCATIONS	
C103	CORR	PT1B	PTB	CMU	P4	GWB	VWC1	CMU / GWB	P4	GWB	P4	ACT1	FF			REFER TO A502 FOR VWC1 LOCATIONS	
2nd FLOOR																	
2SA	STAIR A	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	ACT1	FF				
2SB	STAIR B	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	ACT1	FF				
200	VIEWING	PT1A, PT1B	PTB / CT1F	GWB / CW	P4, (A510 ACCENT) / FF	-	-	GWB / MP	VWC1	-	-	ACT2 / GWB	FF / P10			REFER TO A503 AND A510 FOR TILE ACCENT WALLS - REFER TO A503 FOR VWC1 LOCATIONS	
202	MULTI-PURPOSE	VT1	RB2	GWB	P4, MR	GWB	P4	GWB	P4	MP	(SEE SPEC)	ACT1 / GWB	FF / P10			REFER TO ELEVATIONS FOR MIRROR PLACEMENT	
203	MULTI-PURPOSE	VT1	RB2	GWB / MP	P4 / (SEE SPEC)	GWB	P4	GWB	P4	GWB	P4	ACT1 / GWB	FF / P10				
204	CORR	PT1A, PT1B	PTB	- / GWB	- / P4	GWB	P4, VWC1	GWB	P4	GWB	P4	ACT1 / GWB	FF / P10			REFER TO A503 FOR VWC1 LOCATIONS	
205A	DATA	VT2A	RB3	GWB	P4	GWB	P4	GWB	P4	GWB	P4	ACT1	FF				
205B	STOR	VT2A	RB3	GWB	P4	GWB	P4	GWB	P4	GWB	P4	ACT1	FF				
206	PANTRY	PT1B	PTB	CB 96" : GWB	FRP 96" : EPO	CB 96" : GWB	FRP 96" : EPO	CB 96" : GWB	FRP 96" : EPO	CB 96" : GWB	FRP 96" : EPO	ACT3	FF				
207	WOMEN	PT1B	CT2B 6"	CB	CT2A FH	CB	(A510 ACCENT)	CB	CT2A FH	CB	CT2A FH	GWB	EPO			REFER TO A503 AND A510 FOR TILE WALL INFO	
208	MEN	PT1B	CT2B 6"	CB	CT2A FH	CB	CT2A FH	CB	CT2A FH	CB	(A510 ACCENT)	GWB	EPO				
209	ELEC	VT2A	RB3	GWB	P4	GWB	P4	GWB	P4	GWB	P4	ACT1	FF				
209A	EMR	VT2A	RB3	GWB	P4	GWB	P4	GWB	P4	GWB	P4	OTS	P10				
210	JAN	PT1B	PTB	GWB	EPO	GWB	EPO	GWB	EPO	GWB	EPO	ACT1	FF				
211	TOILET	PT1B	CT2B 6"	CB	CT2A FH	CB	CT2A FH	CB	CT2A FH	CB	CT2A FH	GWB	EPO			REFER TO 12/A510 FOR THE TYPICAL TOILET ROOM TILED WALL	
212	OPEN OFFICE	CPT1	RB2	GWB / CW	P4 / FF	GWB / CW	P4 / FF	GWB	P4, P1	GWB	PTD	ACT1	FF			P1 ACCENT AT MILLWORK BACK WALL	
212A	OFFICE	CPT1	RB2	GWB	P4	GWB	P4	GWB	P4	GWB / CW	P4 / FF	ACT1	FF				
212B	CONF	CPT1	RB2	GWB	P4	GWB	P4	GWB	P4	GWB / CW	P4 / FF	ACT1	FF				
213	TRACK	SF2	RB2	CMU / ACMU	P1, P4 / P4	CMU	PTD	CMU/GWB	PTD	CMU	PTD	OTS : AD / GWB	P3, P4 : P7 / P10			REFER TO A403 AND A404 FOR MORE WALL INFO - STRUCTURE PAINTED AS PER ELEVATIONS	
C201	CORR	PT1A, PT1B	PTB	-	-	GWB / CW	P4 / FF	GWB	VWC1	-	-	ACT2 / GWB	FF / P10			REFER TO A503 FOR VWC1 LOCATIONS	

FINISH SCHEDULE NOTES

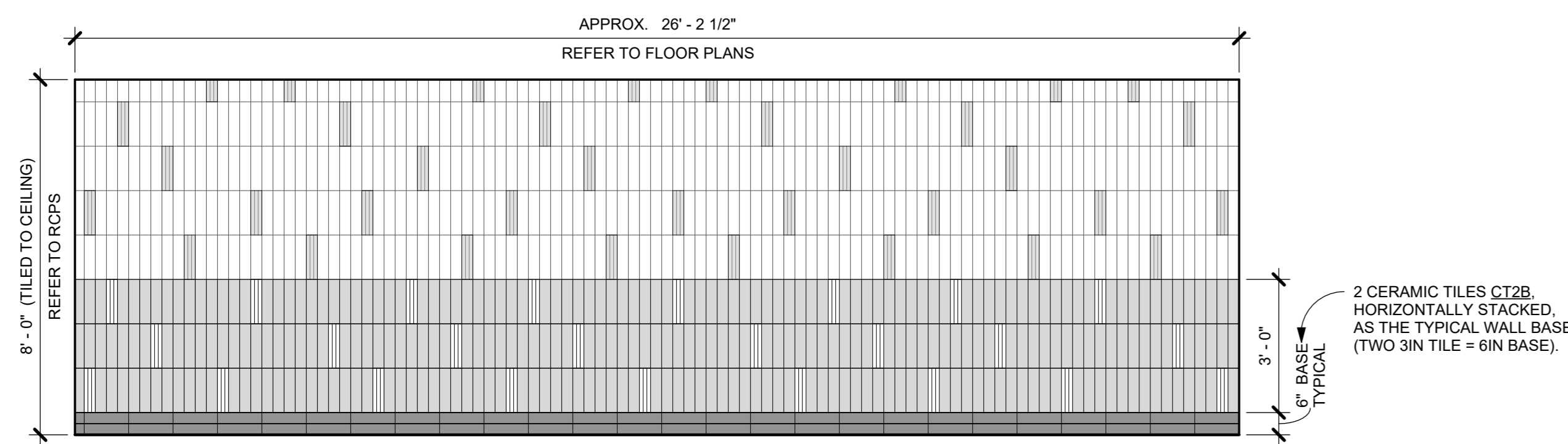
ABBREVIATION FINISHES:	ABBREVIATION NOTES:
ACMU ACQUSTICAL CMU	* = STYLE TYPE. REFER TO SPEC
ACT' ACQUSTIC CEILING TILE	
AD ACQUSTIC DECK	
CB CEMENT BOARD	
CMU CONCRETE MASONRY UNIT	GENERAL NOTES:
CONC CONCRETE	* = INCHES
CPT' CARPET	/ / = CHANGE IN MATERIAL OR FINISH
CT' CERAMIC TILE	- = NOT APPLICABLE MATERIAL OR FINISH
CW CURTAIN WALL	ABV = ABOVE
EPO EPOXY PAINT	FH = FULL HEIGHT
EX EXISTING (FROM PHASE 1)	
FF FACTORY FINISH	
FRP FIRE RATED PANEL	- REFER TO CEILING PLANS, SECTIONS, AND DETAILS FOR CEILING HEIGHTS, CEILING PLANS, SECTIONS, AND DETAILS TAKE PRECEDENCE OVER MATERIALS NOTED ON THE FINISH SCHEDULE.

**** PRINT THIS SHEET IN COLOR ****

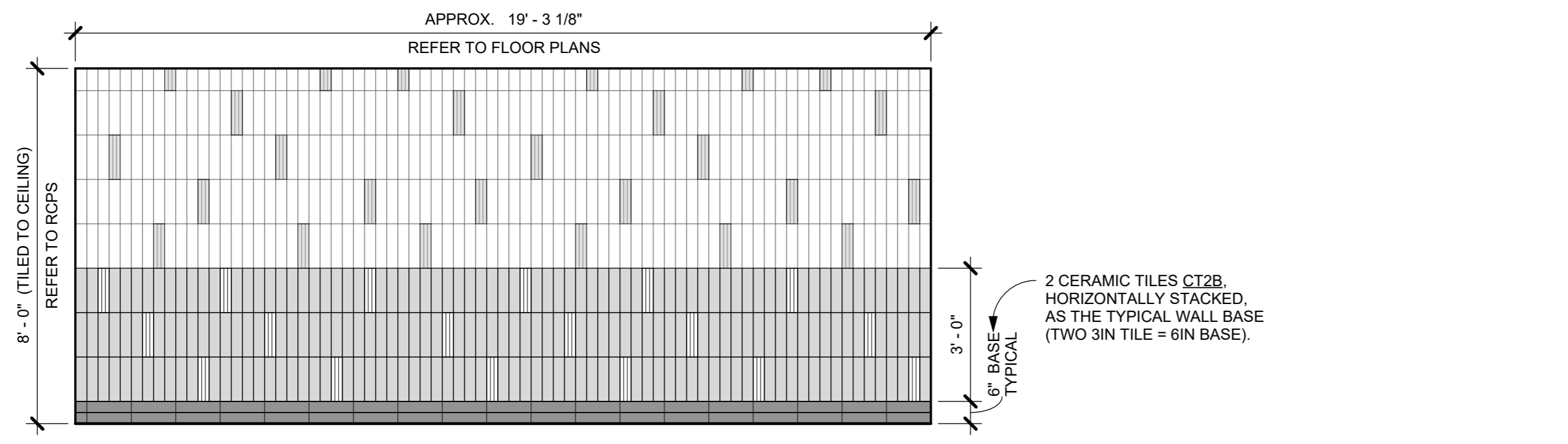
LOBBY		TOILET / LOCKER ROOMS	
	CERAMIC TILE: CT1A		CERAMIC TILE: CT2B
	CERAMIC TILE: CT1B		CERAMIC TILE: CT2C
	CERAMIC TILE: CT1C		CERAMIC TILE: CT2D
	CERAMIC TILE: CT1D		CERAMIC TILE: CT2E
	CERAMIC TILE: CT1E		CERAMIC TILE: CT2F
	CERAMIC TILE: CT1F		

GENERAL NOTES:
- REFER TO TILE ELEVATIONS (ON A510) AND SPEC FOR WALL TILE PATTERN ORIENTATION.
- ALL OUTSIDE EDGES/ CORNERS OF TILE TO HAVE SCHLUTER EDGES. COORDINATE WITH PLANS FOR LOCATIONS

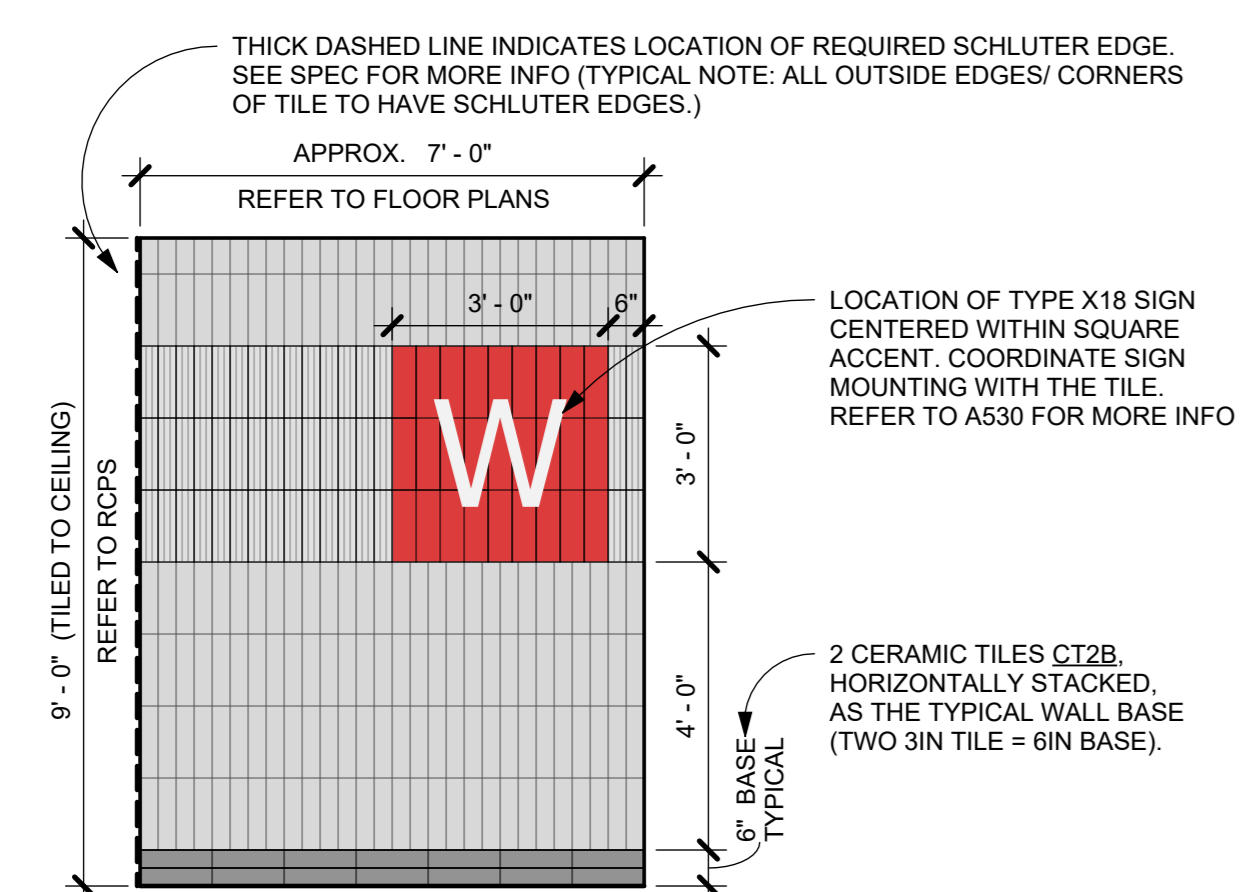
(A) WALL TILE LEGEND + NOTES
3/8" = 1'-0"



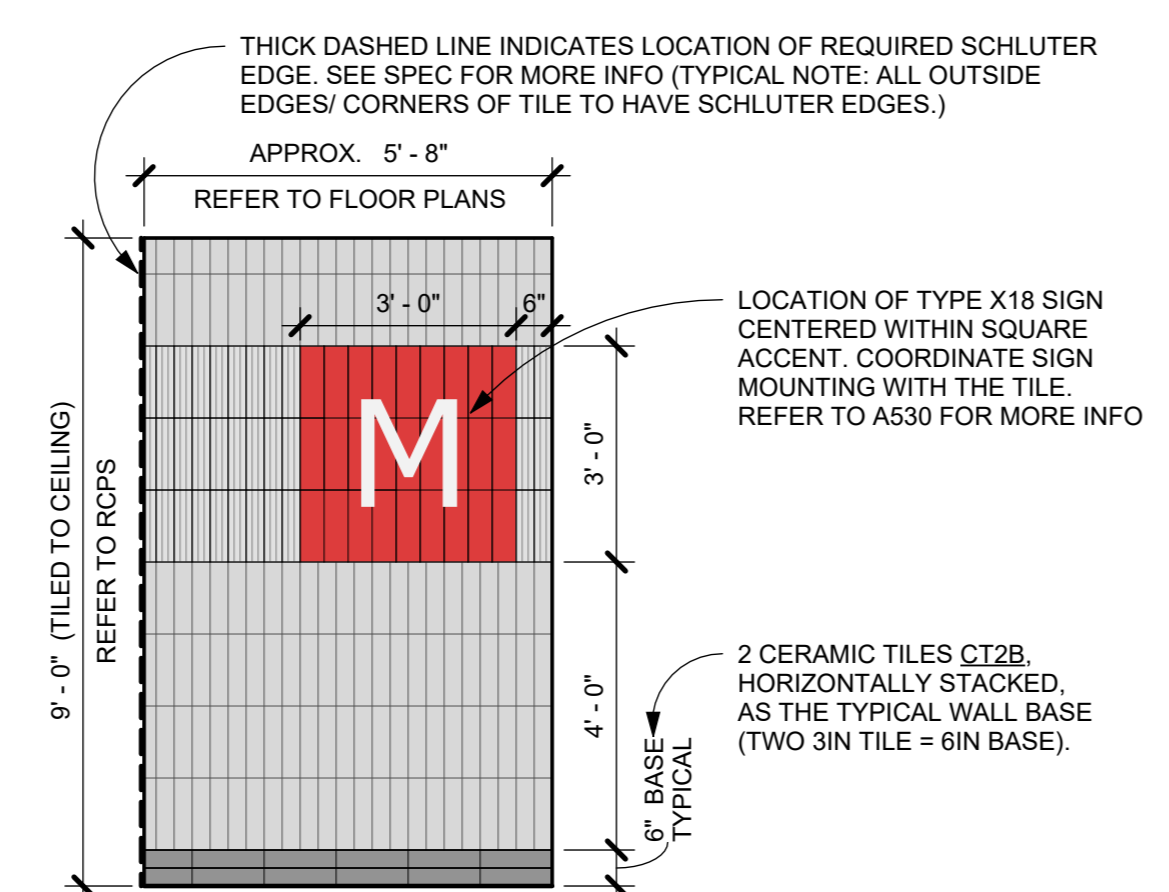
5 1ST FLOOR TOILET ROOMS (109 + 110) - ACCENT WALL
3/8" = 1'-0"



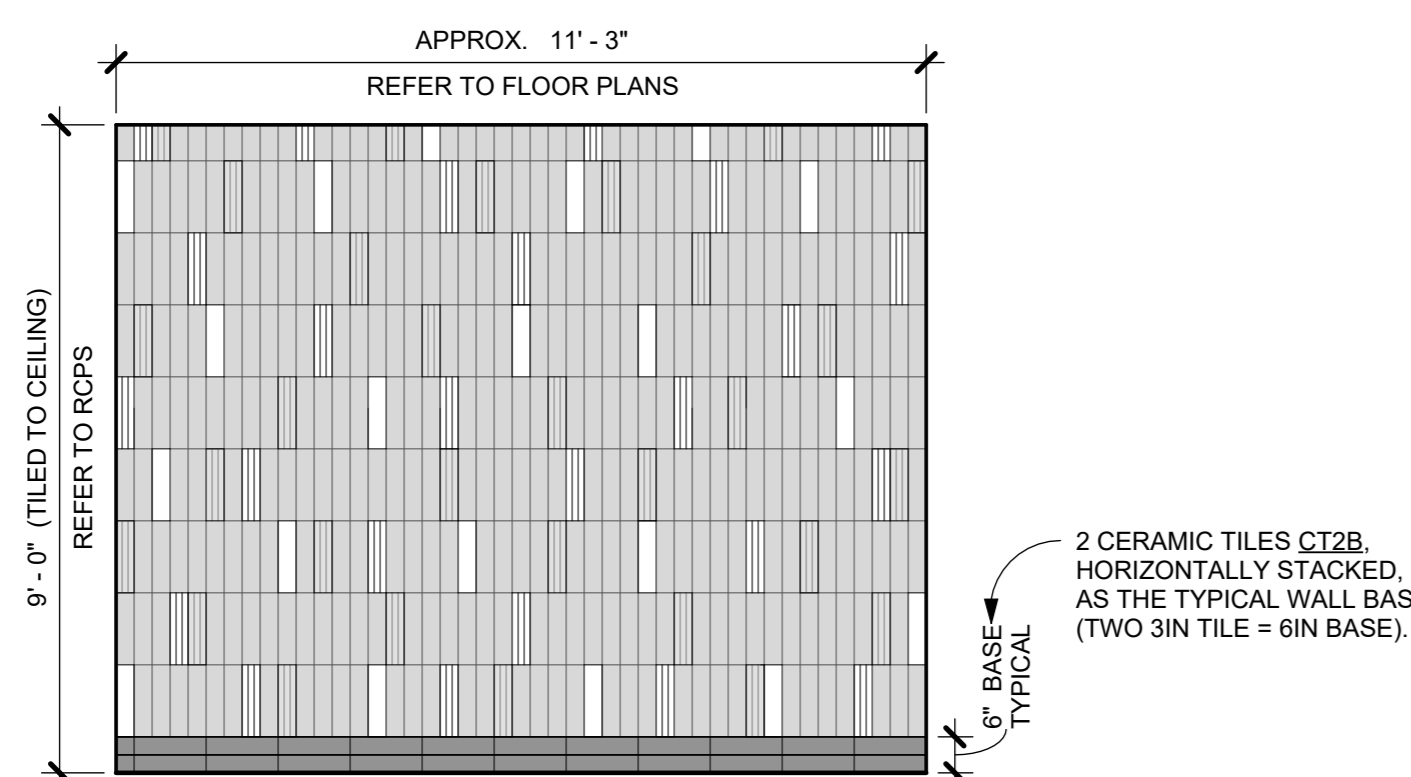
6 2ND FLOOR TOILET ROOMS (207 + 208) - ACCENT WALL
3/8" = 1'-0"



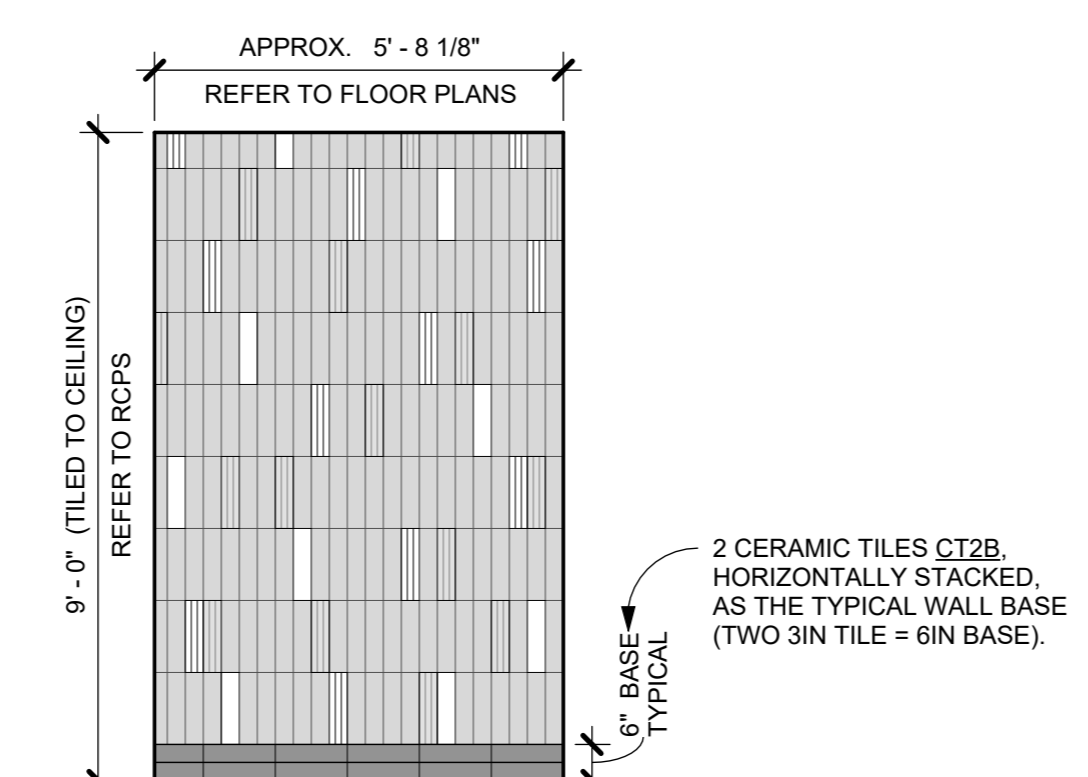
7 WOMEN'S LOCKER ROOM - ENTRY ACCENT WALL
3/8" = 1'-0"



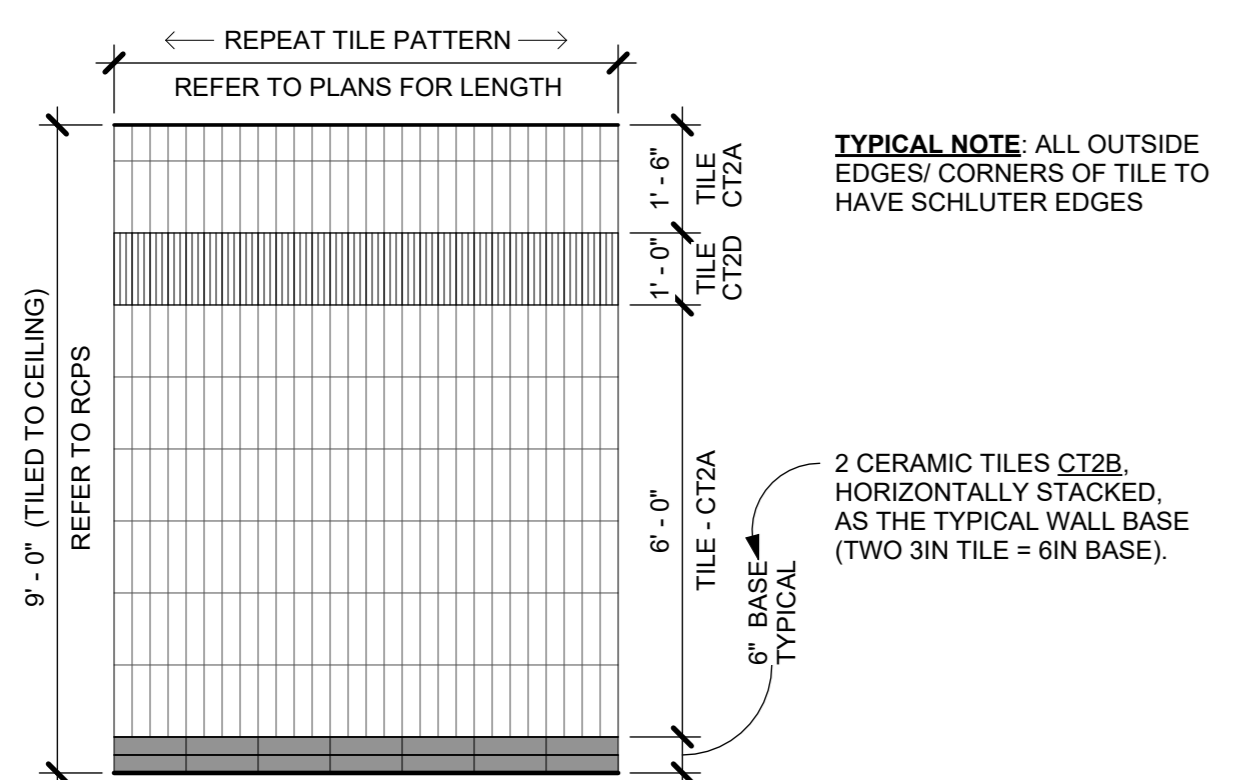
8 MEN'S LOCKER ROOM - ENTRY ACCENT WALL
3/8" = 1'-0"



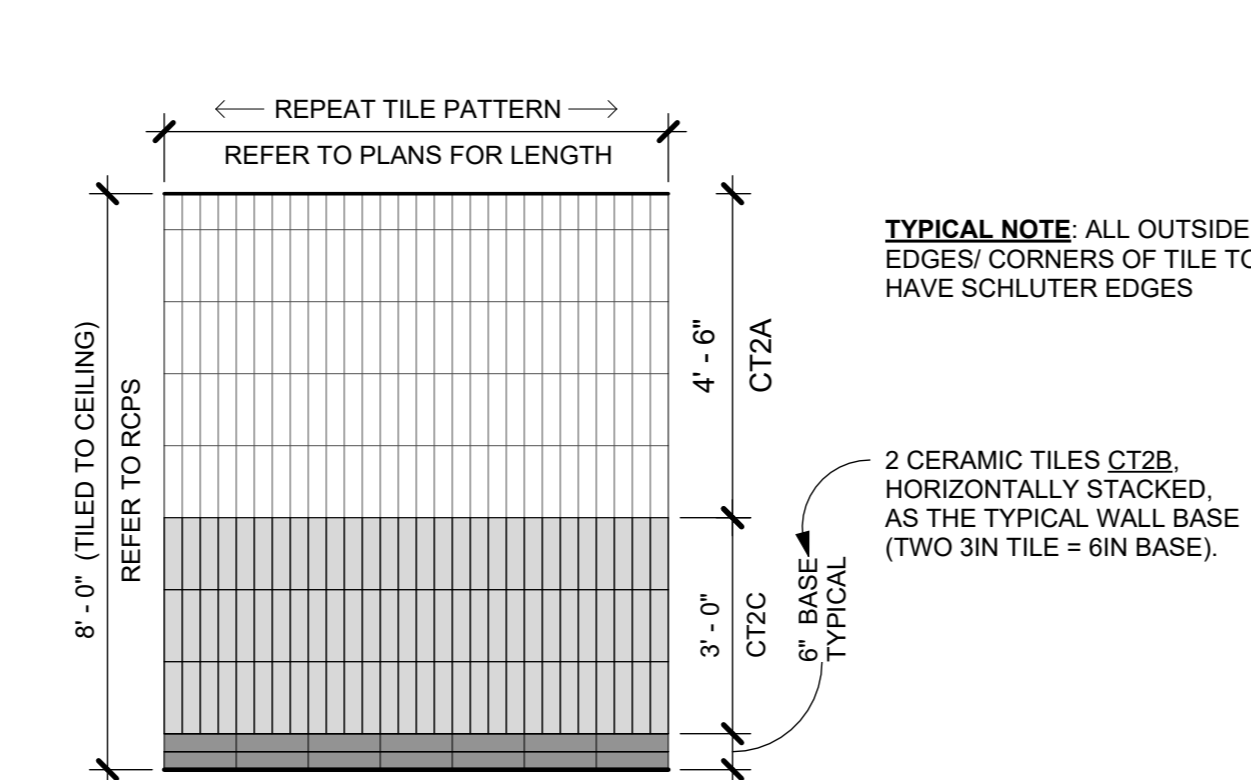
9 WOMEN'S LOCKER ROOM - SINK ACCENT WALL
3/8" = 1'-0"



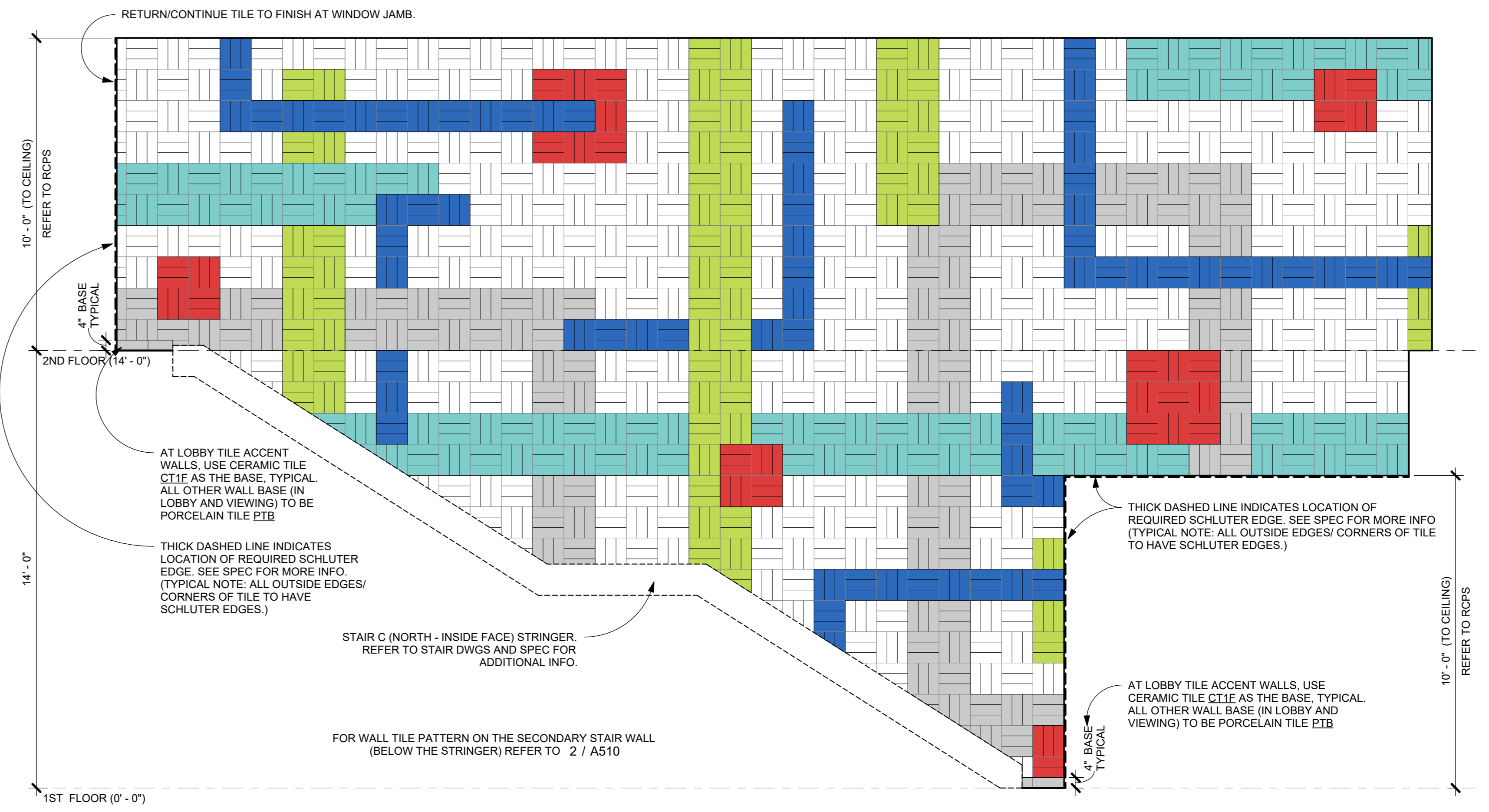
10 MEN'S LOCKER ROOM - SINK ACCENT WALL
3/8" = 1'-0"



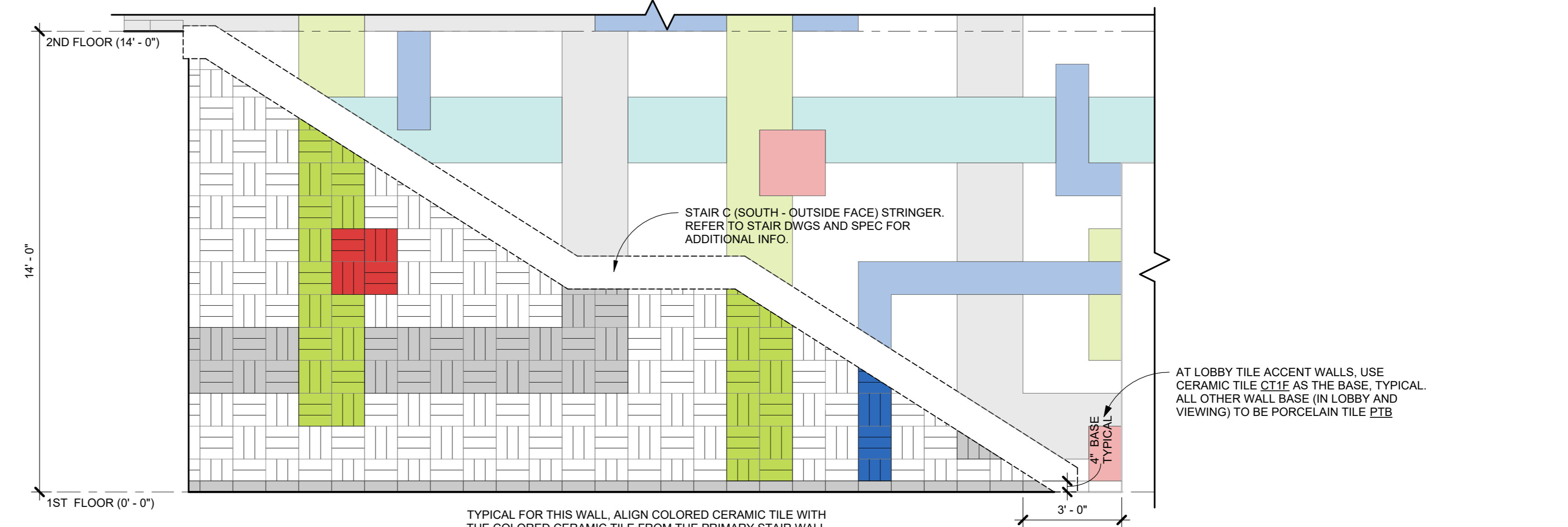
11 TYPICAL LOCKER ROOM TILED WALL
3/8" = 1'-0" TYPICAL WALL FOR THE LOCKER ROOM AREA (ROOMS 116, 117, 118, 120, AND 121)



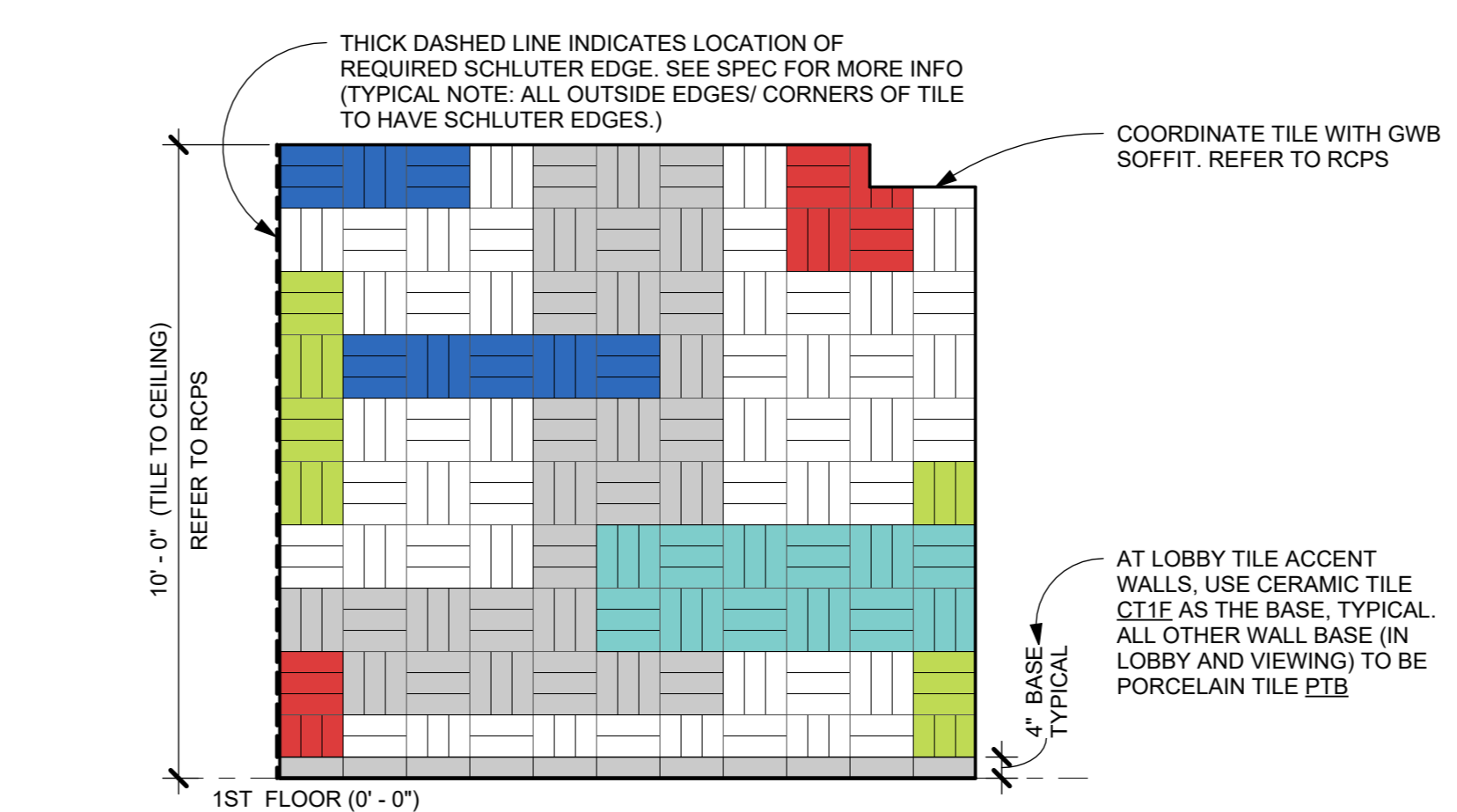
12 TYPICAL TOILET ROOM TILED WALL
3/8" = 1'-0" TYPICAL WALL FOR SINGLE USER AND MULTI-USER TOILET ROOMS (ROOMS 105, 109, 110, 207, 208 AND 211)



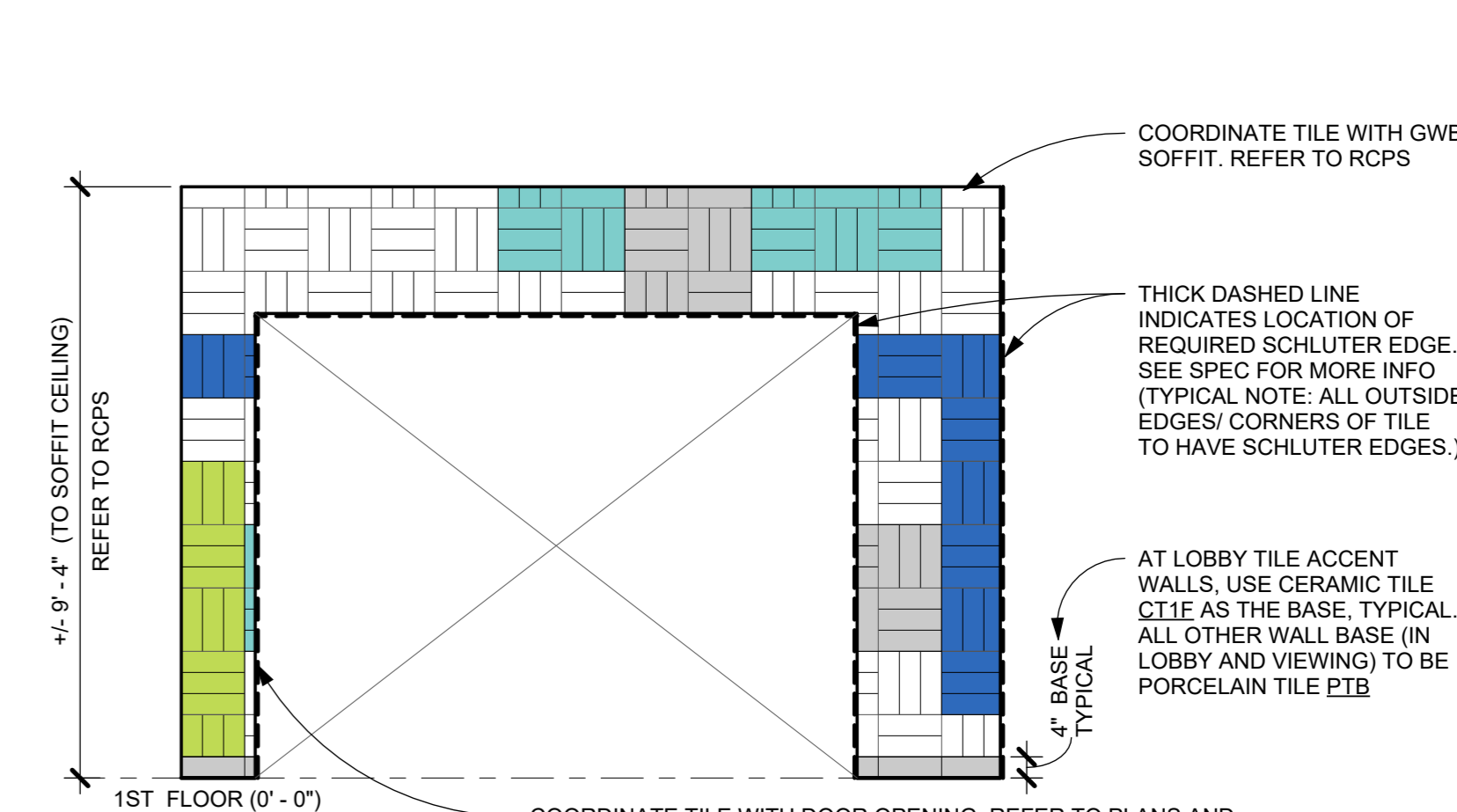
1 LOBBY - ACCENT TILED WALL 1
3/8" = 1'-0"



2 LOBBY - ACCENT TILED WALL 2
3/8" = 1'-0"



3 LOBBY - ACCENT TILED WALL 3
3/8" = 1'-0"



4 LOBBY - ACCENT TILED WALL 4
3/8" = 1'-0"

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Professional Seal

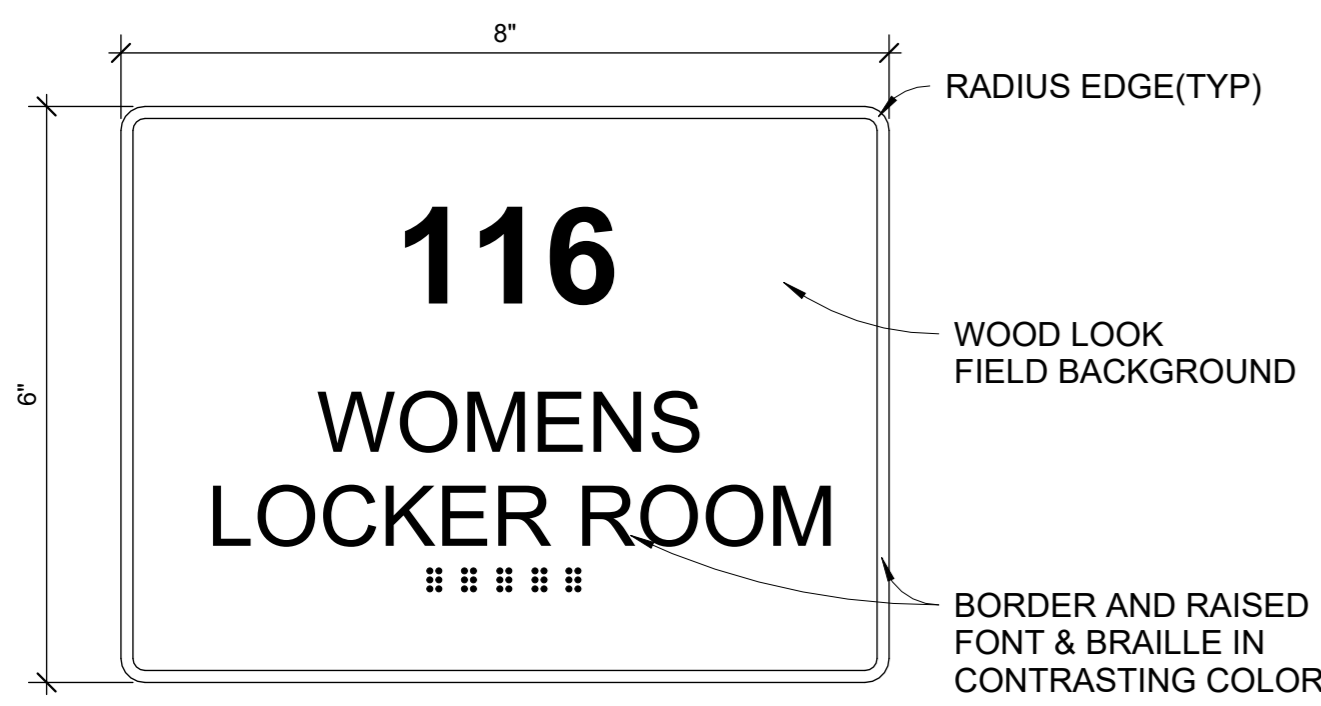
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7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

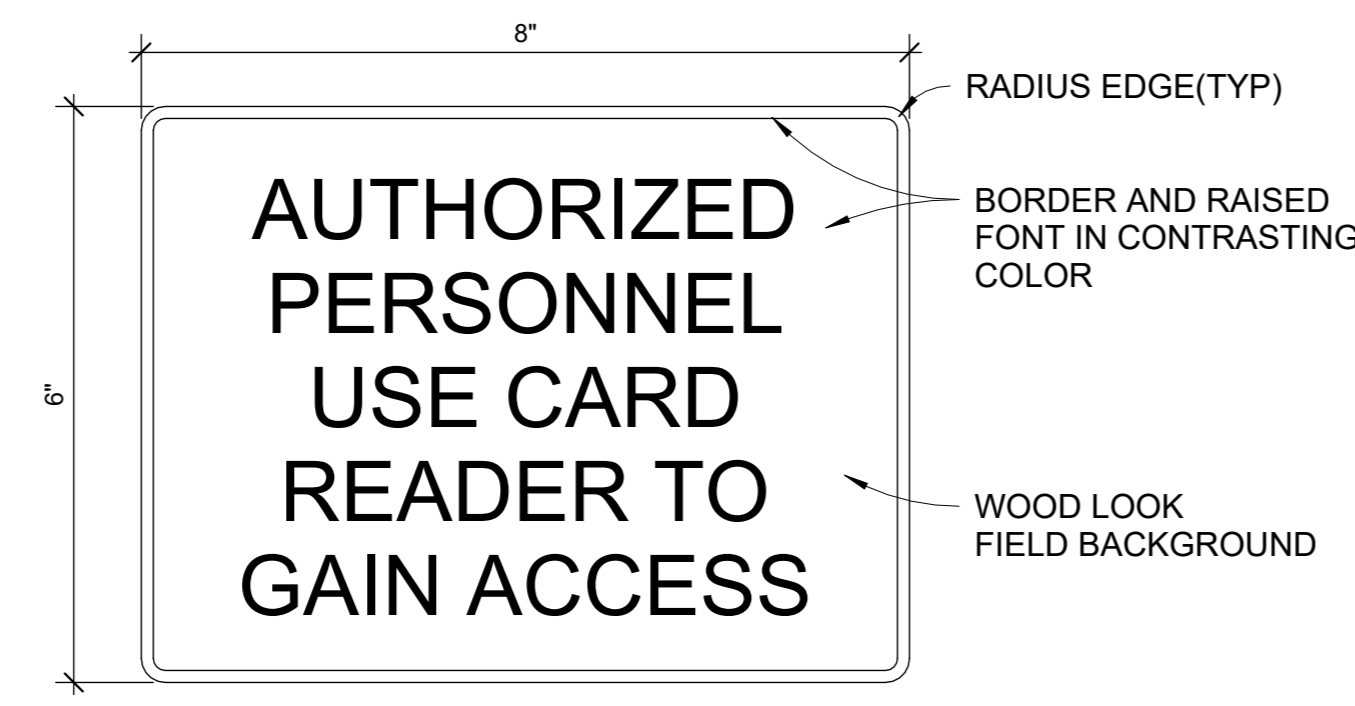
ACCENT WALL TILE PATTERNS

Job No.	Date
2020-1005	01/27/24
Scale	Drawn / Checked
AS NOTED	Author Checker
Sheet Number	

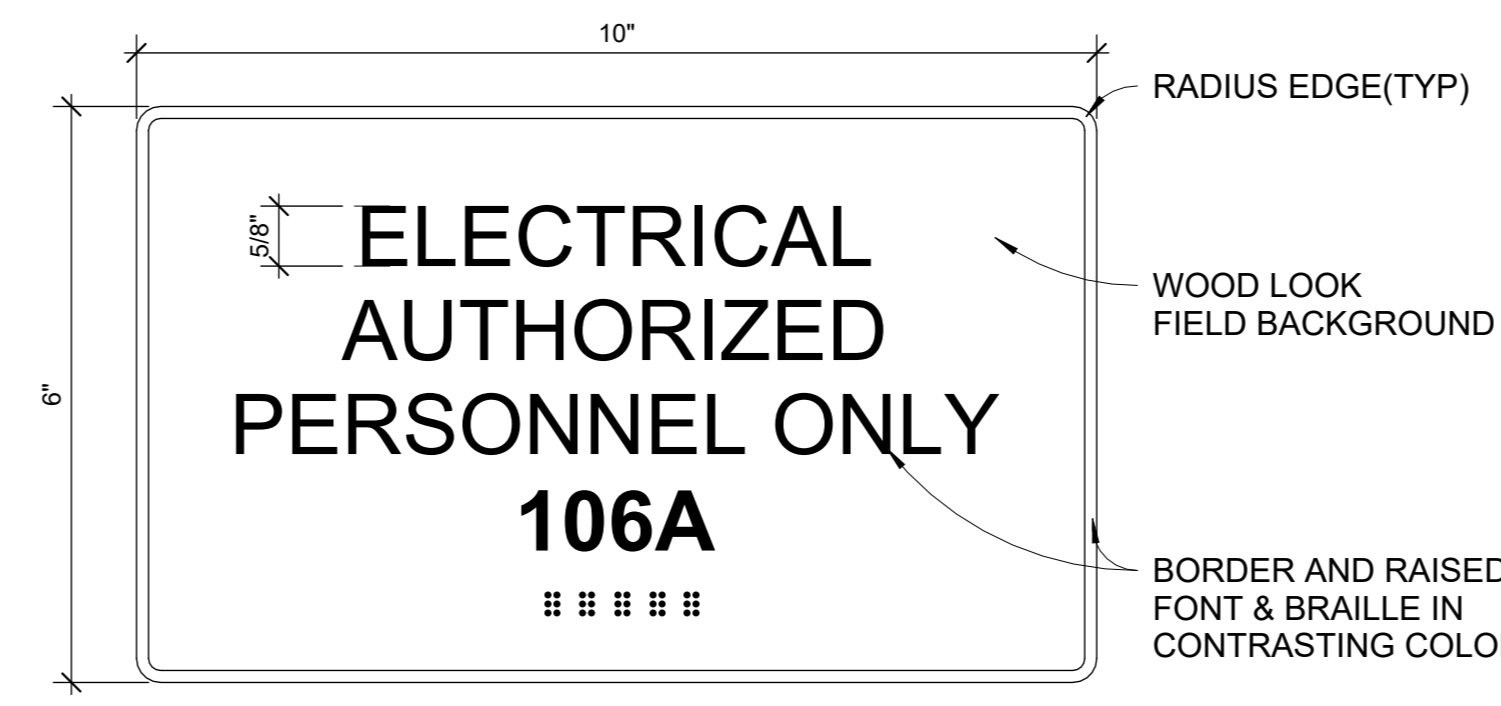
A510



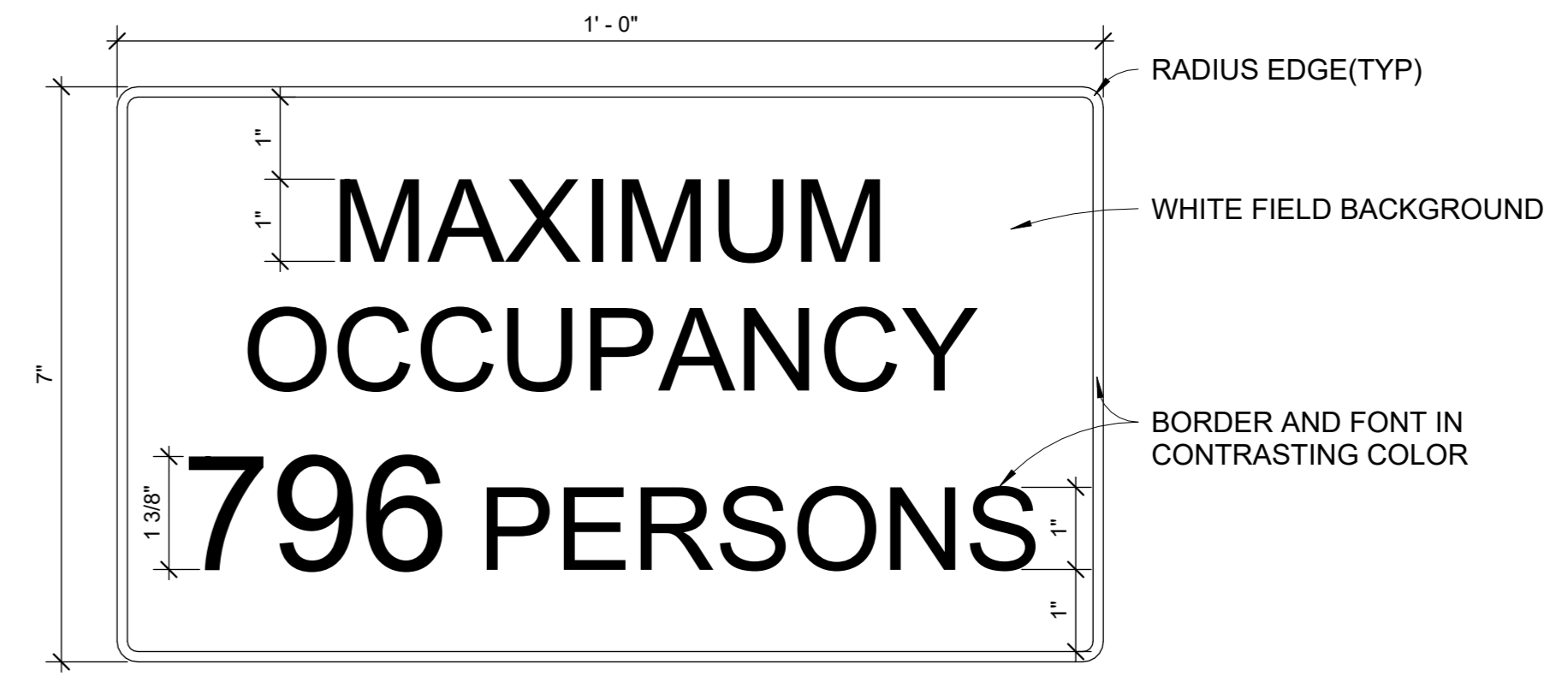
TYPE A
ROOM IDENTIFICATION SIGN



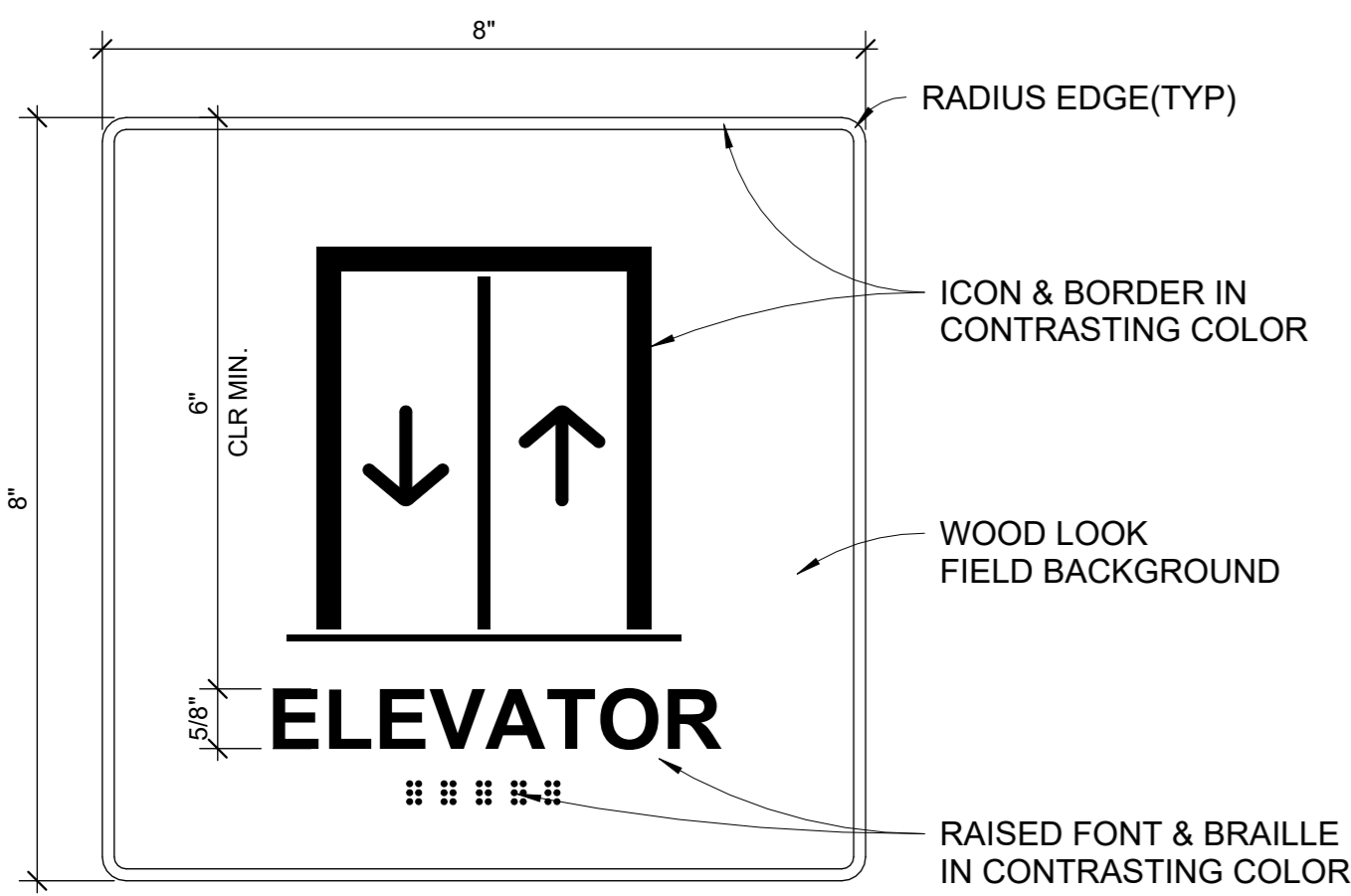
TYPE B
CARD READER SIGN



TYPE C
AUTHORIZED PERSONNEL - ROOM IDENTIFICATION



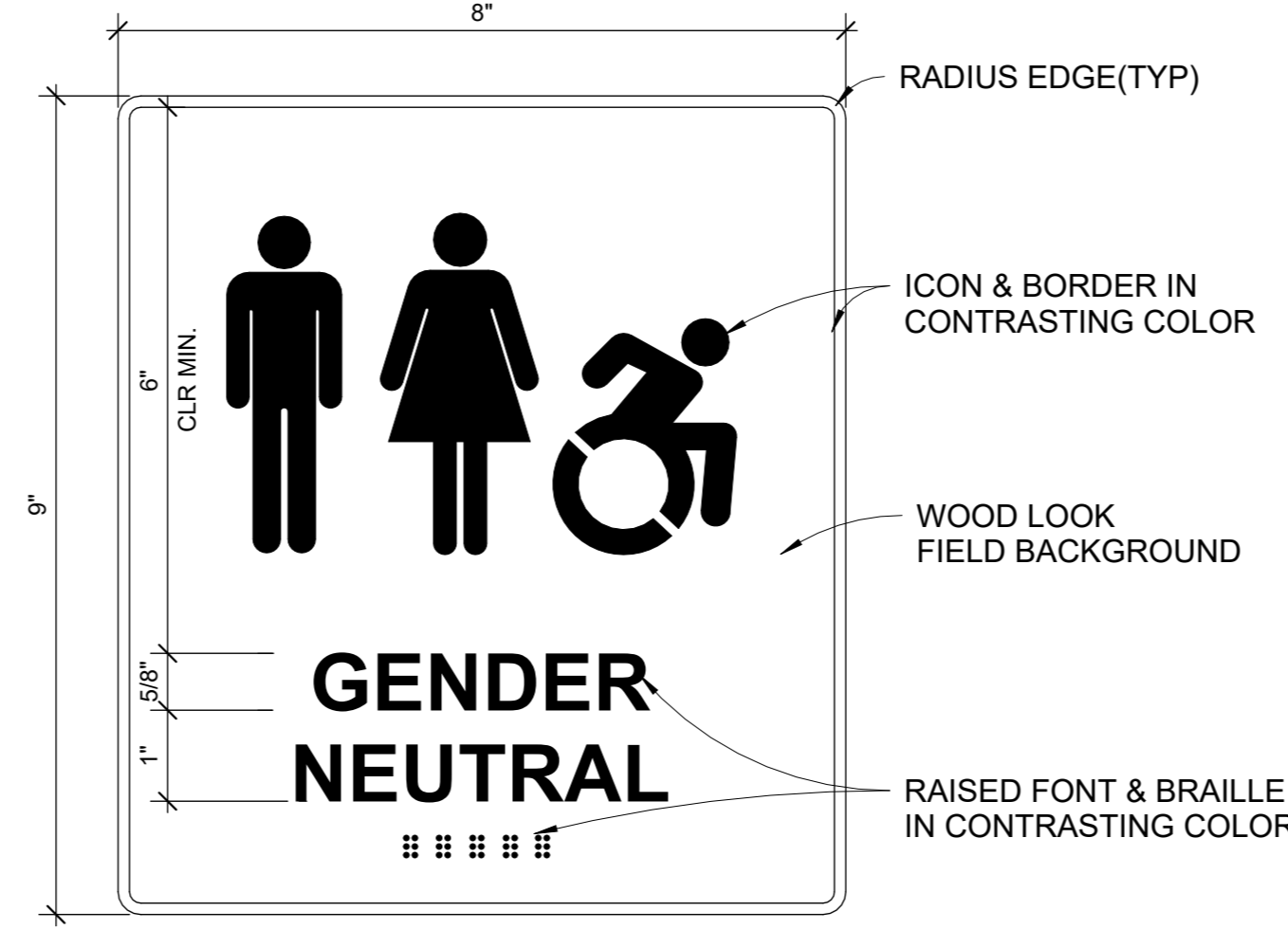
TYPE D
MAXIMUM ROOM OCCUPANCY IDENTIFICATION



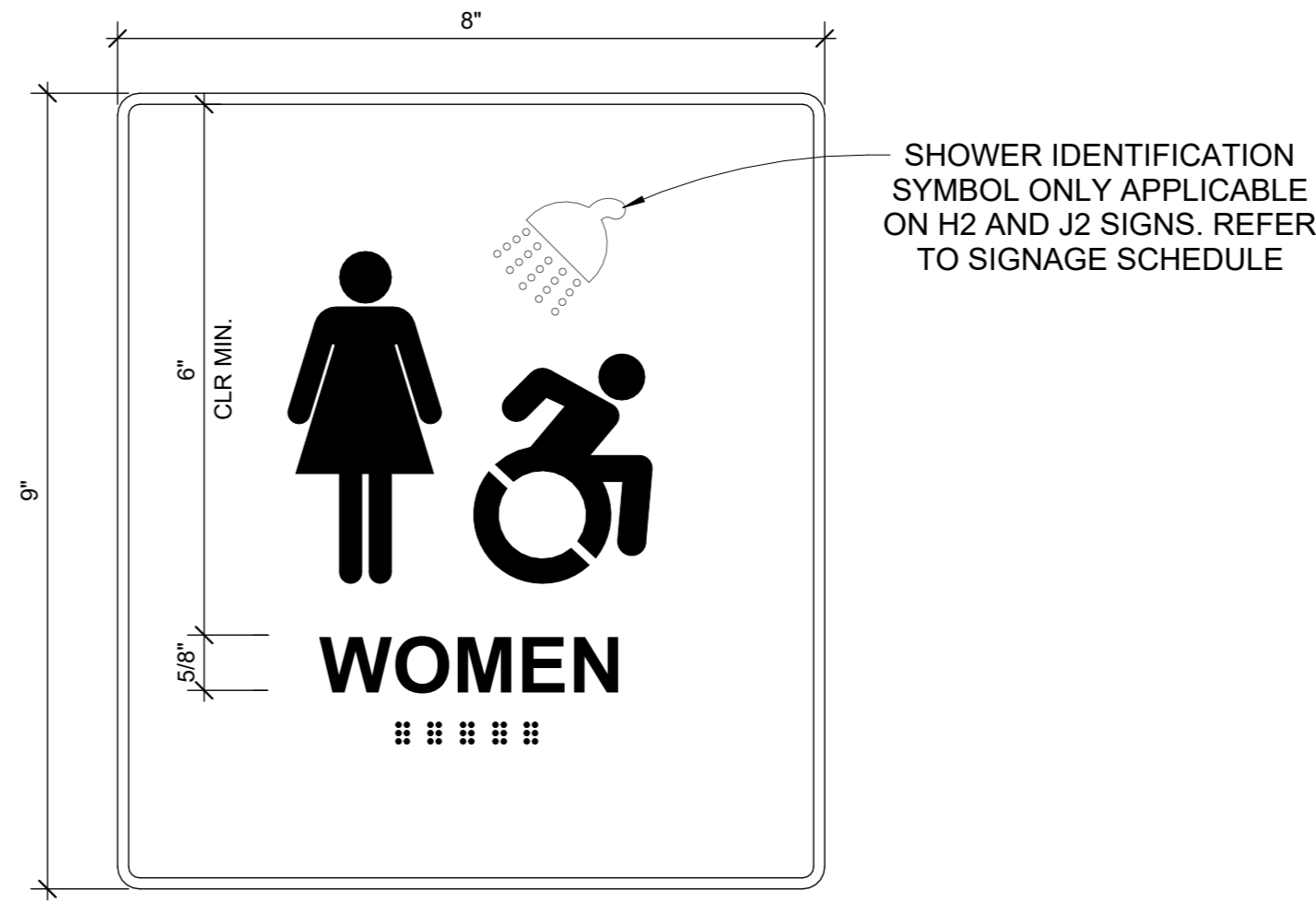
TYPE E
ELEVATOR IDENTIFICATION SIGN



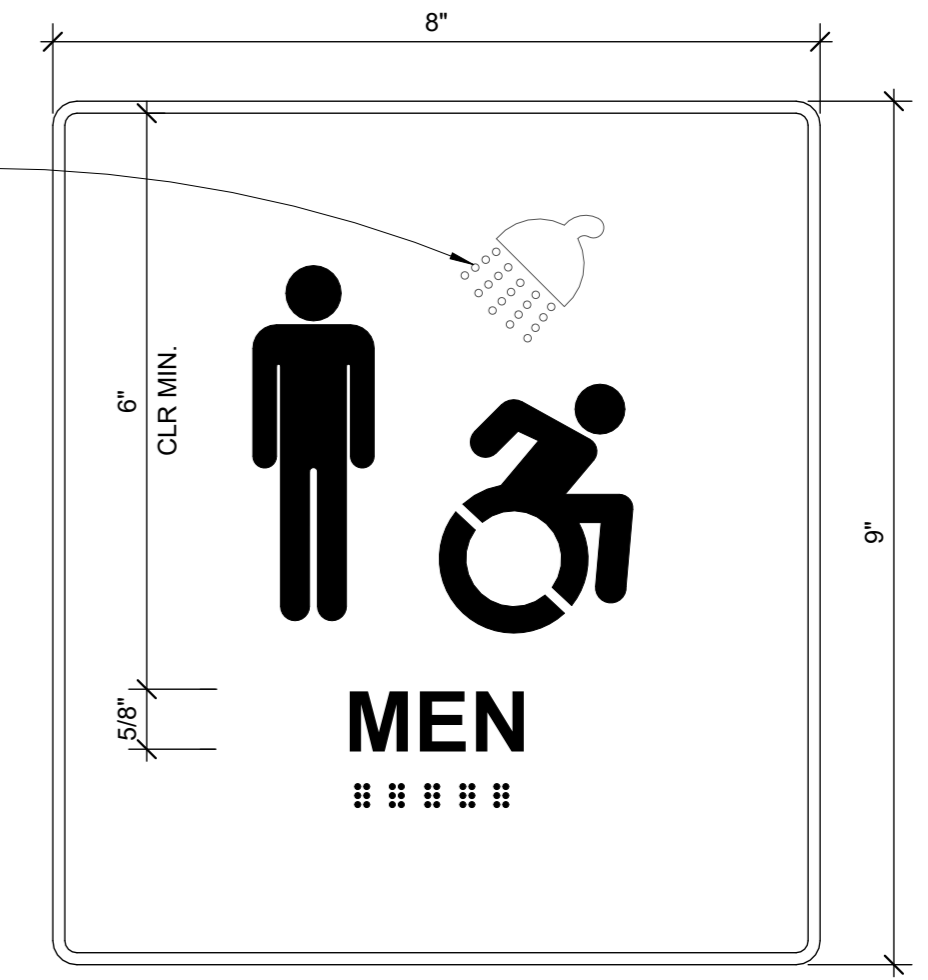
TYPE F
ELEVATOR SECONDARY SIGN



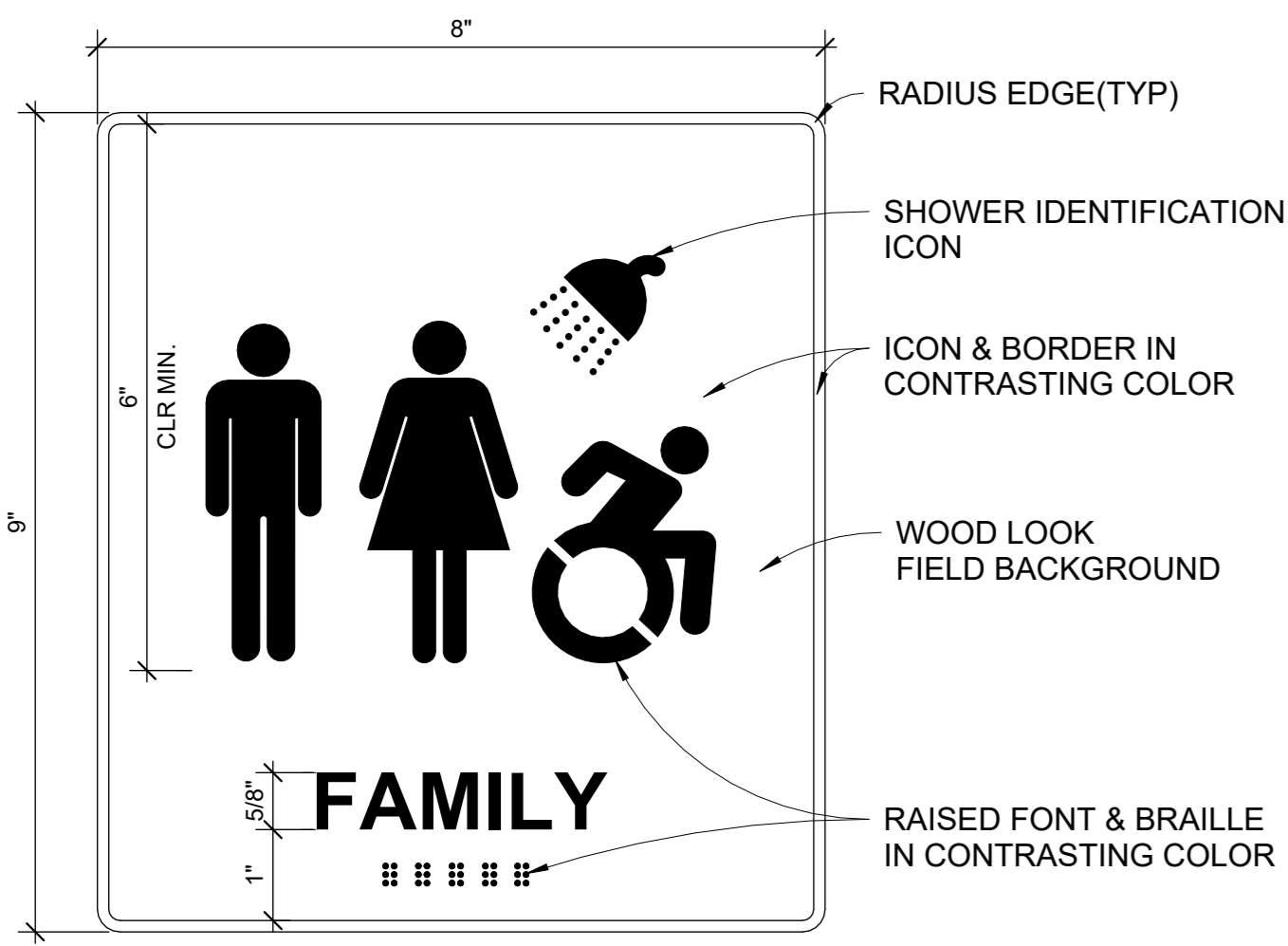
TYPE G
SINGLE USER TOILET IDENTIFICATION SIGN



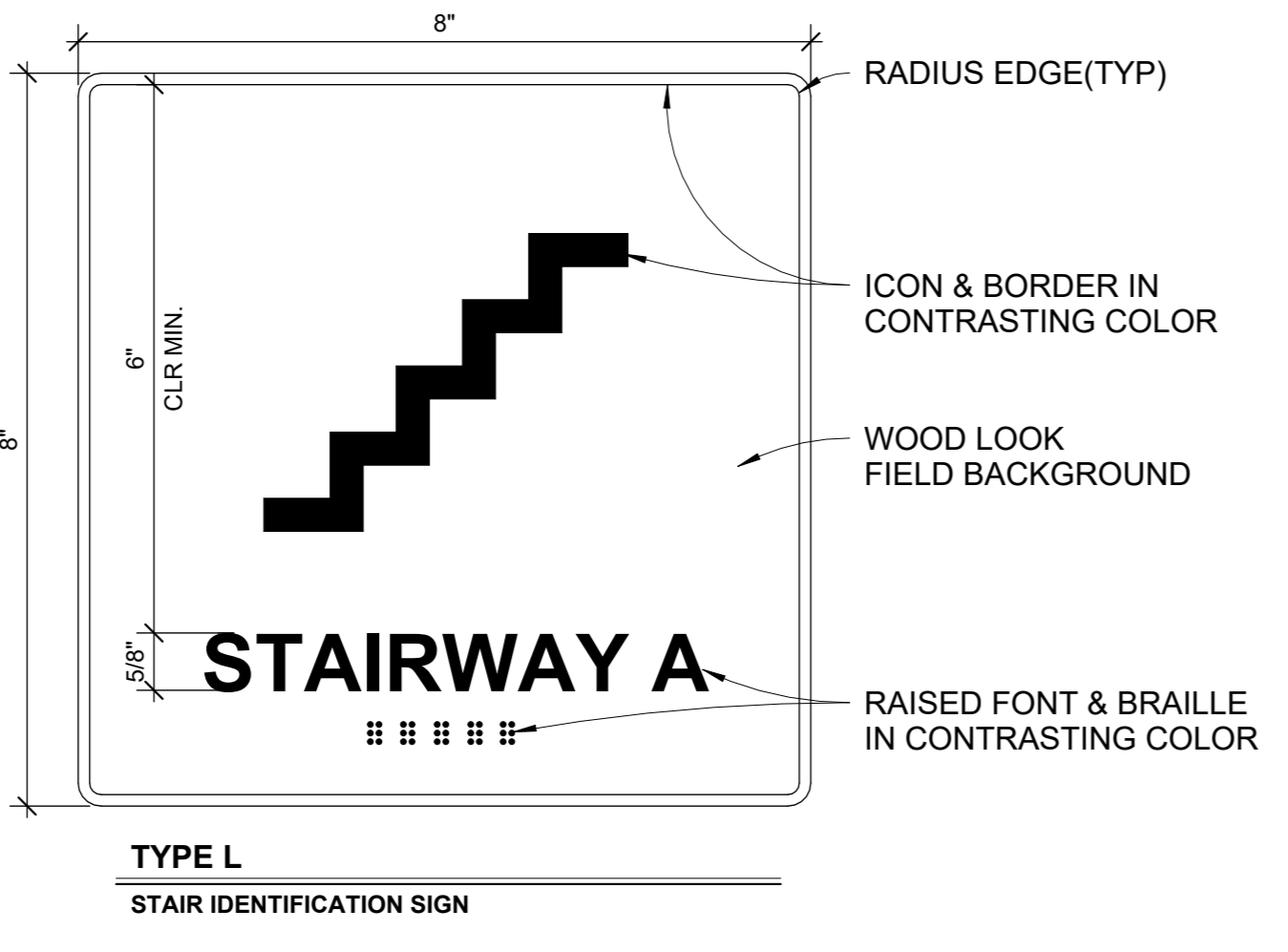
TYPE H
TOILET IDENTIFICATION SIGN



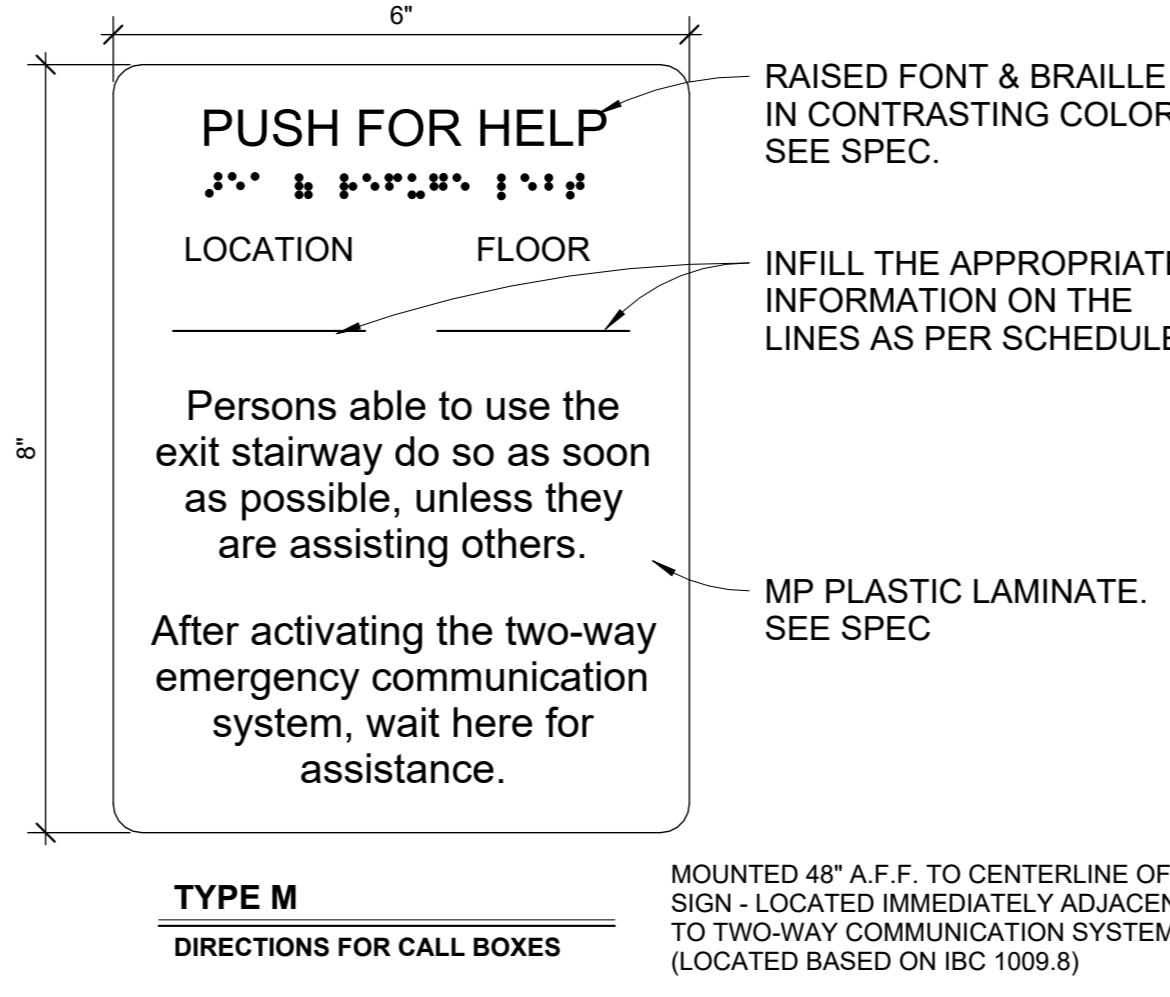
TYPE J
TOILET IDENTIFICATION SIGN



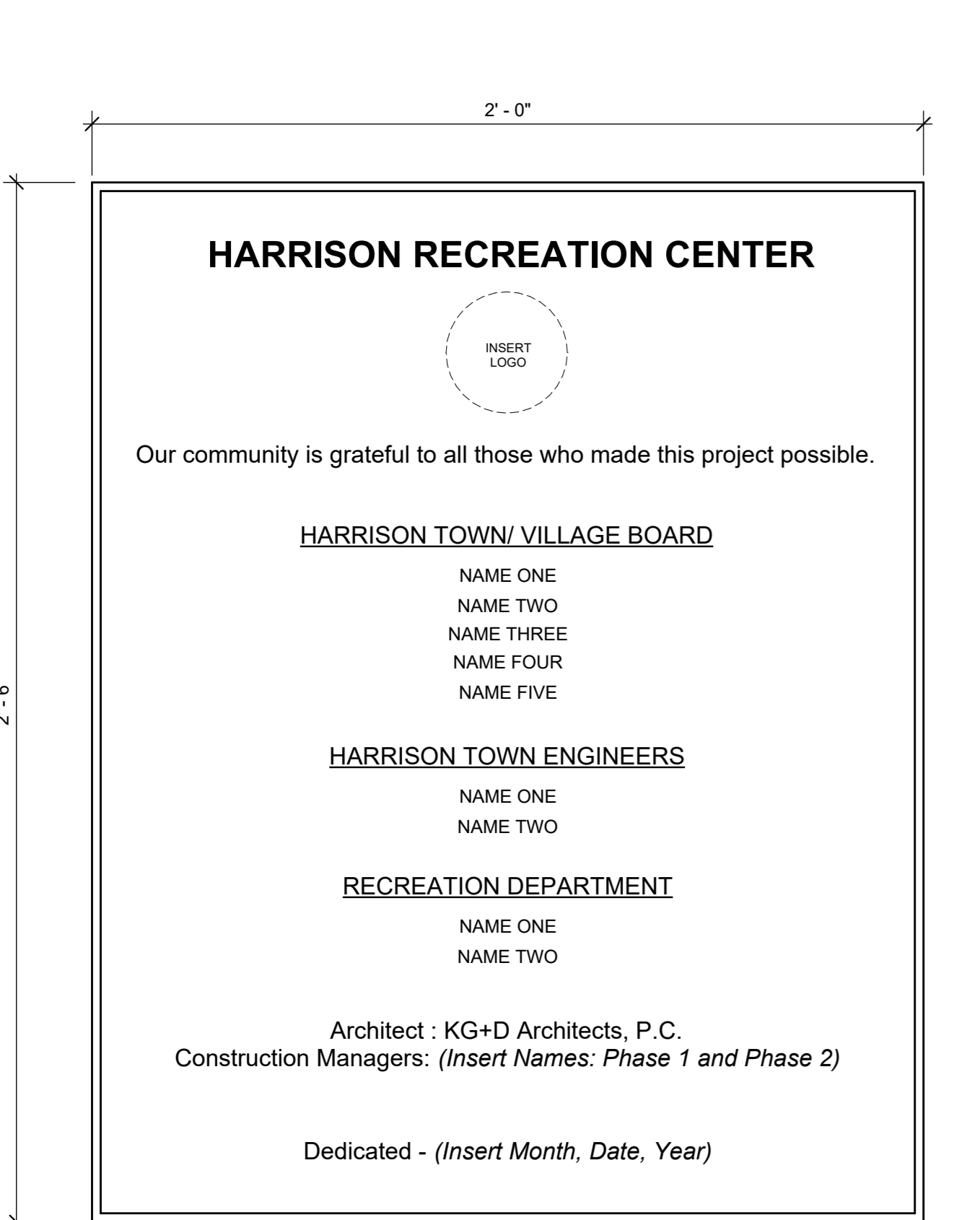
TYPE K
SINGLE USER WASH ROOM IDENTIFICATION SIGN



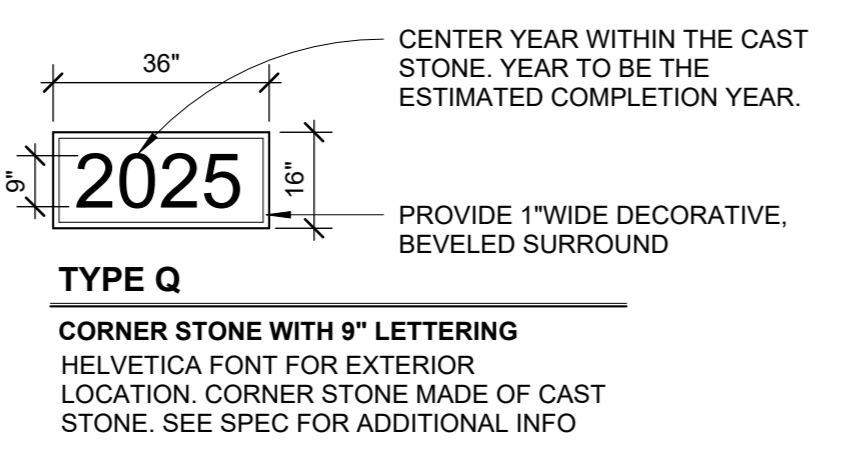
TYPE L
STAIR IDENTIFICATION SIGN



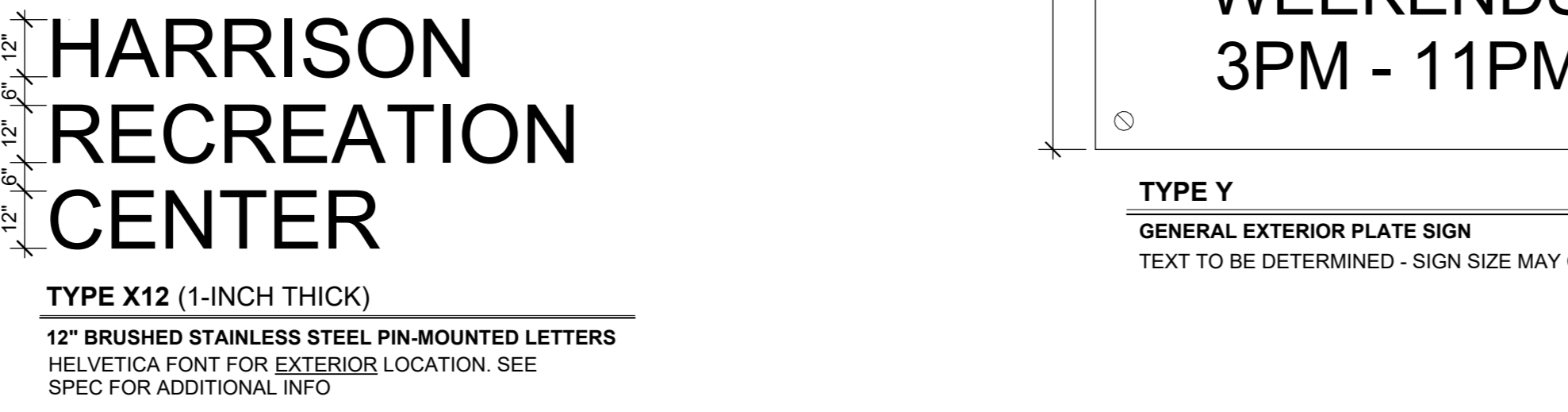
TYPE M
DIRECTIONS FOR CALL BOXES



TYPE P
DEDICATION PLAQUE



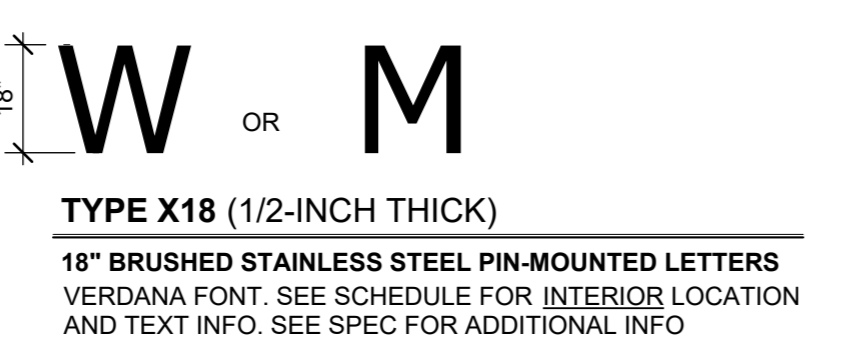
TYPE Q
CORNER STONE WITH 9" LETTERING



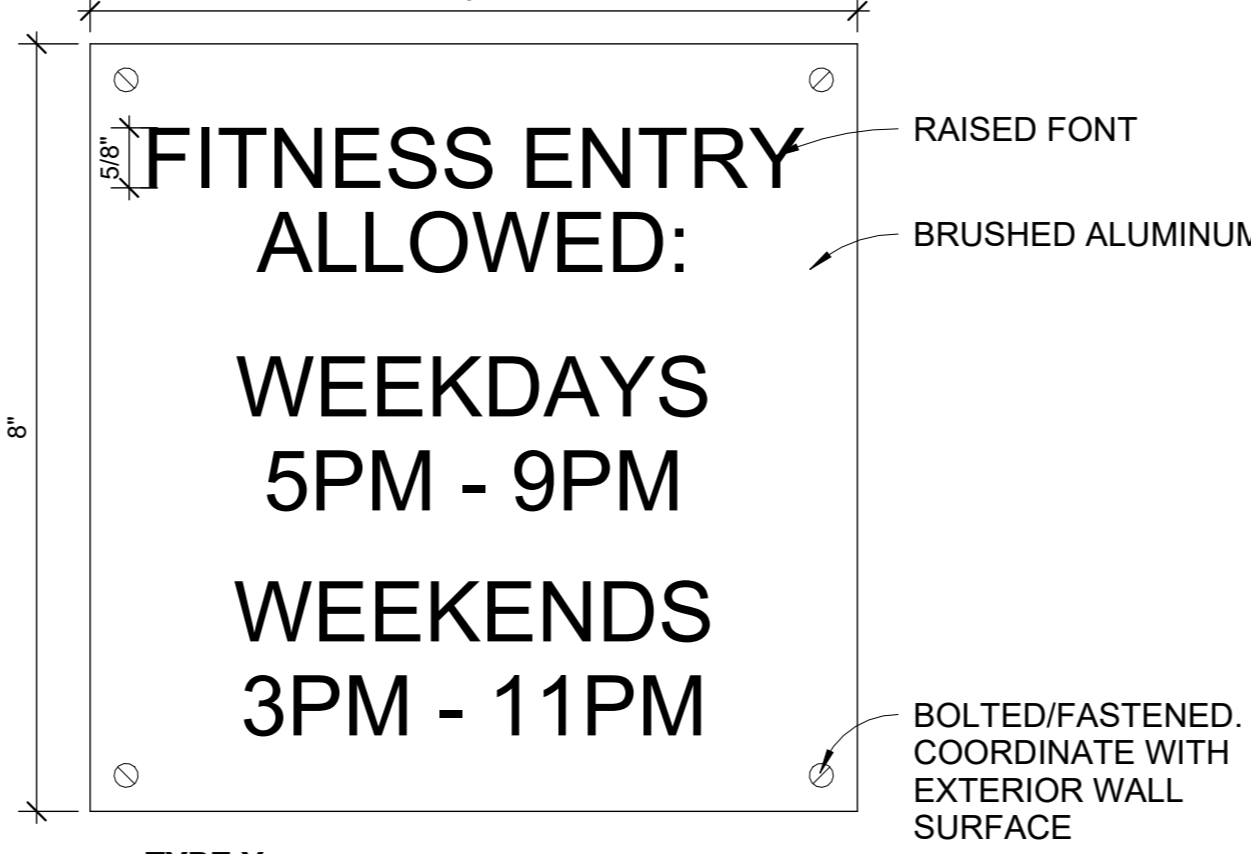
TYPE X12 (1-INCH THICK)
12" BRUSHED STAINLESS STEEL PIN-MOUNTED LETTERS



TYPE X14 (2 INCH THICK)
14" BRUSHED STAINLESS STEEL PIN-MOUNTED LETTERS



TYPE X18 (1/2-INCH THICK)
18" BRUSHED STAINLESS STEEL PIN-MOUNTED LETTERS



TYPE Y
GENERAL EXTERIOR PLATE SIGN

SIGNAGE SCHEDULE						
ROOM #	LOCATION	SIGN TYPE	SIGN TEXT (TEXT TO BE CONFIRMED WITH OWNER)	DESCRIPTION	QTY	SIGNAGE COMMENTS
PARKING						
B03	ELEC	C	B03 ELECTRICAL AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
B04	STOR	A	B04 STORAGE	SEE TYPE A ON A530 FOR MORE DETAILS	2	
B05	OFFICE	A	B05 OFFICE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
B06	MECH	C	B06 MECHANICAL ROOM AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	MOUNT SIGN OUTSIDE OF B06A
B07	MECH VEST	C	B07 MECHANICAL ROOM AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	MOUNT SIGN OUTSIDE OF B07
B08	ELEC/VP ROOM	C	B08 ELECTRICAL ROOM AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
BSA	STAIR A	L	STAIRWAY A	SEE TYPE L ON A530 FOR MORE DETAILS	1	
BSB	STAIR B	L	STAIRWAY B	SEE TYPE L ON A530 FOR MORE DETAILS	1	
BSD	STAIR D	L	STAIRWAY D	SEE TYPE L ON A530 FOR MORE DETAILS	1	
No. 1	ELEV	E	ELEVATOR	SEE TYPE E ON A530 FOR MORE DETAILS	3 (ONE @ EACH LEVEL)	
		F	IN CASE OF FIRE USE STAIRS	SEE TYPE F ON A530 FOR MORE DETAILS	3 (ONE @ EACH LEVEL)	
		M	ELEVATOR A (LOCATION) : FLOOR 2 (FLOOR)	SEE TYPE M ON A530 FOR MORE DETAILS	1 (@ 2ND FLOOR ONLY)	
1st FLOOR						
1SA	STAIR A	L	STAIRWAY A	SEE TYPE L ON A530 FOR MORE DETAILS	1	
1SB	STAIR B	L	STAIRWAY B	SEE TYPE L ON A530 FOR MORE DETAILS	1	
1SC	STAIR C	L	STAIRWAY C	SEE TYPE L ON A530 FOR MORE DETAILS	1	
1SD	STAIR D	L	STAIRWAY D	SEE TYPE L ON A530 FOR MORE DETAILS	1	
101	LOBBY	P	(TEXT TO BE DETERMINED BY OWNER)	SEE TYPE P ON A530 FOR MORE DETAILS	1	MOUNT SIGN BY STAIR D. REFER TO A202 FOR MOUNTING LOCATION
103	OPEN OFFICE	A	103 OFFICE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
103B	CONF	A	103B CONFERENCE ROOM	SEE TYPE A ON A530 FOR MORE DETAILS	1	
104	JAN	A	104 JANITORS CLOSET	SEE TYPE A ON A530 FOR MORE DETAILS	1	
105	TOILET	G	GENDER NEUTRAL	SEE TYPE G ON A530 FOR MORE DETAILS	1	
106	RECREATION GAME RM	A	106 RECREATION ROOM	SEE TYPE A ON A530 FOR MORE DETAILS	2	
107	COMPUTER GAMING	A	107 COMPUTER GAMING	SEE TYPE A ON A530 FOR MORE DETAILS	1	
107A	AV CLOS	A	107A STORAGE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
108	ARTS/CRAFTS	A	108 ARTS/CRAFTS	SEE TYPE A ON A530 FOR MORE DETAILS	1	
108A	STOR	A	108A STORAGE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
109	WOMEN	H	WOMEN	SEE TYPE H ON A530 FOR MORE DETAILS	1	NO SHOWER SYMBOL
110	MEN	J	MEN	SEE TYPE J ON A530 FOR MORE DETAILS	1	NO SHOWER SYMBOL
111	DATA	A	111 DATA ROOM	SEE TYPE A ON A530 FOR MORE DETAILS	1	
112	MEETING	A	112 MEETING ROOM	SEE TYPE A ON A530 FOR MORE DETAILS	1	
112A	MECH	C	112A MECHANICAL ROOM AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
113	GYMNASIUM	A	113 GYMNASIUM	SEE TYPE A ON A530 FOR MORE DETAILS	2	
113C	ELEC	D	MAXIMUM OCCUPANCY 796 PERSONS	SEE TYPE D ON A530 FOR MORE DETAILS	1	
113E	ELEC	C	113E ELECTRICAL AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
115	LOCKER CORRIDOR	Y	FITNESS ENTRY ALLOWED: WEEKDAYS 5PM - 9PM WEEKEND 3PM - 11PM	SEE TYPE Y ON A530 FOR MORE DETAILS	1	MOUNT SIGN OUTSIDE OF DOOR 115. REFER TO A202 FOR MOUNTING LOCATION
116	WOMEN	H2	WOMENS LOCKER ROOM	SEE TYPE H ON A530 FOR MORE DETAILS	1	INCLUDE SHOWER SYMBOL
		X18	W	SEE TYPE X18 ON A 530 FOR MORE DETAILS	1	REFER TO A402 FOR MOUNTING LOCATION
118	FAMILY TOILET	K	FAMILY	SEE TYPE K ON A530 FOR MORE DETAILS	1	
119	JAN	A	119 JANITORS CLOSET	SEE TYPE A ON A530 FOR MORE DETAILS	1	
120	MEN	J2	MENS LOCKER ROOM	SEE TYPE J ON A530 FOR MORE DETAILS	1	INCLUDE SHOWER SYMBOL
		X18	M	SEE TYPE X18 ON A530 FOR MORE DETAILS	1	REFER TO A402 FOR MOUNTING LOCATION
123	FITNESS	A	123 FITNESS CENTER	SEE TYPE A ON A530 FOR MORE DETAILS	1	
123A	STOR	A	123A STORAGE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
2nd FLOOR						
2SA	STAIR A	L	STAIRWAY A	SEE TYPE L ON A530 FOR MORE DETAILS	1	
2SB	STAIR B	L	STAIRWAY B	SEE TYPE L ON A530 FOR MORE DETAILS	1	
2SC	STAIR C	L	STAIRWAY C	SEE TYPE L ON A530 FOR MORE DETAILS	1	
202	MULTI-PURPOSE	A	202 MULTI-PURPOSE SPACE	SEE TYPE A ON A530 FOR MORE DETAILS	2	
203	MULTI-PURPOSE	A	203 MULTI-PURPOSE SPACE	SEE TYPE A ON A530 FOR MORE DETAILS	2	
205A	DATA	A	205A DATA ROOM	SEE TYPE A ON A530 FOR MORE DETAILS	1	
205B	STOR	A	205B STORAGE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
206	PANTRY	A	206 PANTRY	SEE TYPE A ON A530 FOR MORE DETAILS	1	
207	WOMEN	H	WOMEN	SEE TYPE H ON A530 FOR MORE DETAILS	1	NO SHOWER SYMBOL
208	MEN	J	MEN	SEE TYPE J ON A530 FOR MORE DETAILS	1	NO SHOWER SYMBOL
209	ELEC	C	209 ELECTRICAL AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
209A	EMR	C	209A MACHINE ROOM AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
210	JAN	A	210 JANITORS CLOSET	SEE TYPE A ON A530 FOR MORE DETAILS	1	
211	TOILET	G	GENDER NEUTRAL	SEE TYPE G ON A530 FOR MORE DETAILS	1	
212	OPEN OFFICE	A	212 OPEN OFFICE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
212A	OFFICE	A	212A OFFICE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
212B	CONF	A	212B CONFERENCE ROOM	SEE TYPE A ON A530 FOR MORE DETAILS	1	

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

SIGNAGE TYPES AND SCHEDULE

Job No.	2020-1005	Date	-
Scale	AS NOTED	Drawn / Checked	- / -
Sheet Number	A530		

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



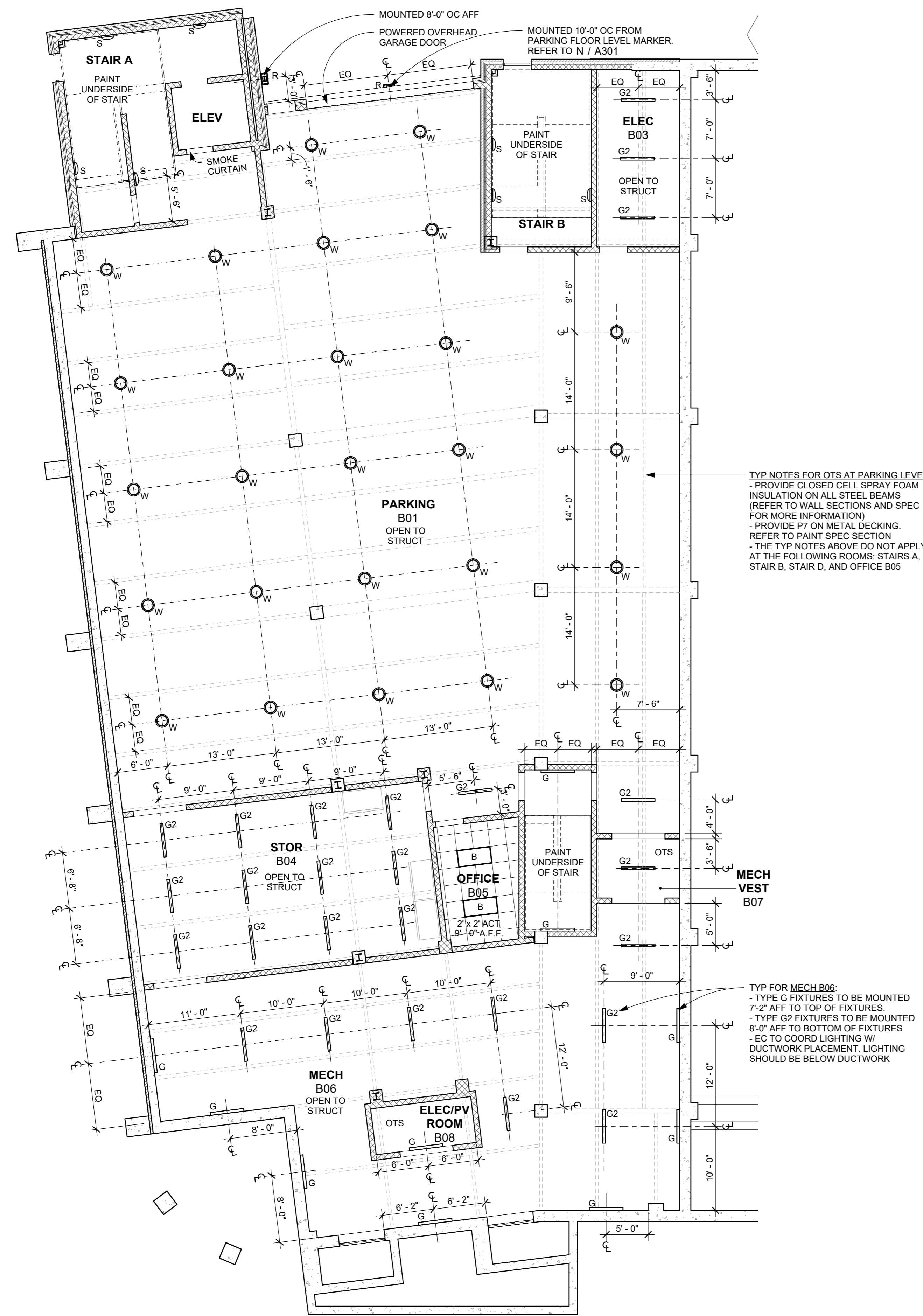
CONSTRUCTION DOCUMENTS

CEILING LEGEND

	PROJECTOR SCREEN		LIGHT FIXTURE CENTERED IN ROOM/CEILING, COORDINATE W/ ELEC DWGS
	PROJECTOR		LIGHT FIXTURE TAG (REFER TO ELEC DWGS FOR MORE INFO)
	LIGHT FIXTURE W/ CORRESPONDING TAG (SEE LIGHTING SCHEDULE ON E604 FOR MORE INFORMATION)		GYP CEILING SYSTEM
	NOTE: THIS LEGEND DOES NOT SHOW EVERY GRAPHIC REPRESENTATION FOR EACH LIGHT FIXTURE TYPE. REVIEW EACH RCP, ELEC DWGS, & THE LIGHTING SCHED FOR MORE INFO		ACT CEILING SYSTEM
			OPEN TO STRUCTURE

CEILING GENERAL NOTES

1. CEILING GRIDS SHALL BE CENTERED IN ROOM OR SPACE.
2. ALL CEILING MOUNTED ELEMENTS, INCLUDING, BUT NOT LIMITED TO: EXIT SIGNS, HVAC REGISTERS, SPRINKLER HEADS, WIRELESS ACCESS POINTS, ETC. SHALL BE CENTERED IN CEILING TILES.
3. SEE MEP DRAWINGS FOR LIGHTING FIXTURE SCHEDULE & OTHER CEILING MOUNTED ELECTRICAL, MECHANICAL & PLUMBING ELEMENTS.
4. SEE FINISH SCHEDULE & SPECIFICATIONS FOR CEILING MATERIALS & FINISHES.
5. CEILING HEIGHTS SHOWN IN PLANS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ELSEWHERE.
6. CONTRACTOR SHALL CONFIRM ALL LIGHT FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
7. CONTRACTOR TO CONFIRM LOCATIONS OF ALL SLOT DIFFUSERS, SPRINKLER HEADS, SMOKE DETECTORS, ETC. MOUNTED IN GWB OR SPECIALTY CEILING / WALLS WITH ARCHITECT PRIOR TO INSTALLATION.



TYP NOTES FOR OTS AT PARKING LEVEL:
 - PROVIDE CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS (REFER TO WALL SECTIONS AND SPEC FOR MORE INFORMATION)
 - PROVIDE P7 ON METAL DECKING. REFER TO PAINT SPEC SECTION
 - THE TYP NOTES ABOVE DO NOT APPLY AT THE FOLLOWING ROOMS: STAIRS A, STAIR B, STAIR C, AND OFFICE B05

TYP FOR MECH B06:
 - TYPE G FIXTURES TO BE MOUNTED 7'-2" AFF TO TOP OF FIXTURES
 - TYPE G2 FIXTURES TO BE MOUNTED 8'-0" AFF TO BOTTOM OF FIXTURES
 - EC TO COORD LIGHTING W/ DUCTWORK PLACEMENT. LIGHTING SHOULD BE BELOW DUCTWORK

1 LOWER LEVEL and PARKING - CEILING PLAN
 1/8" = 1'-0"

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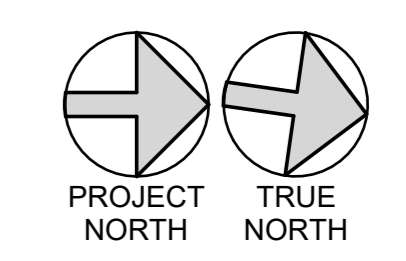
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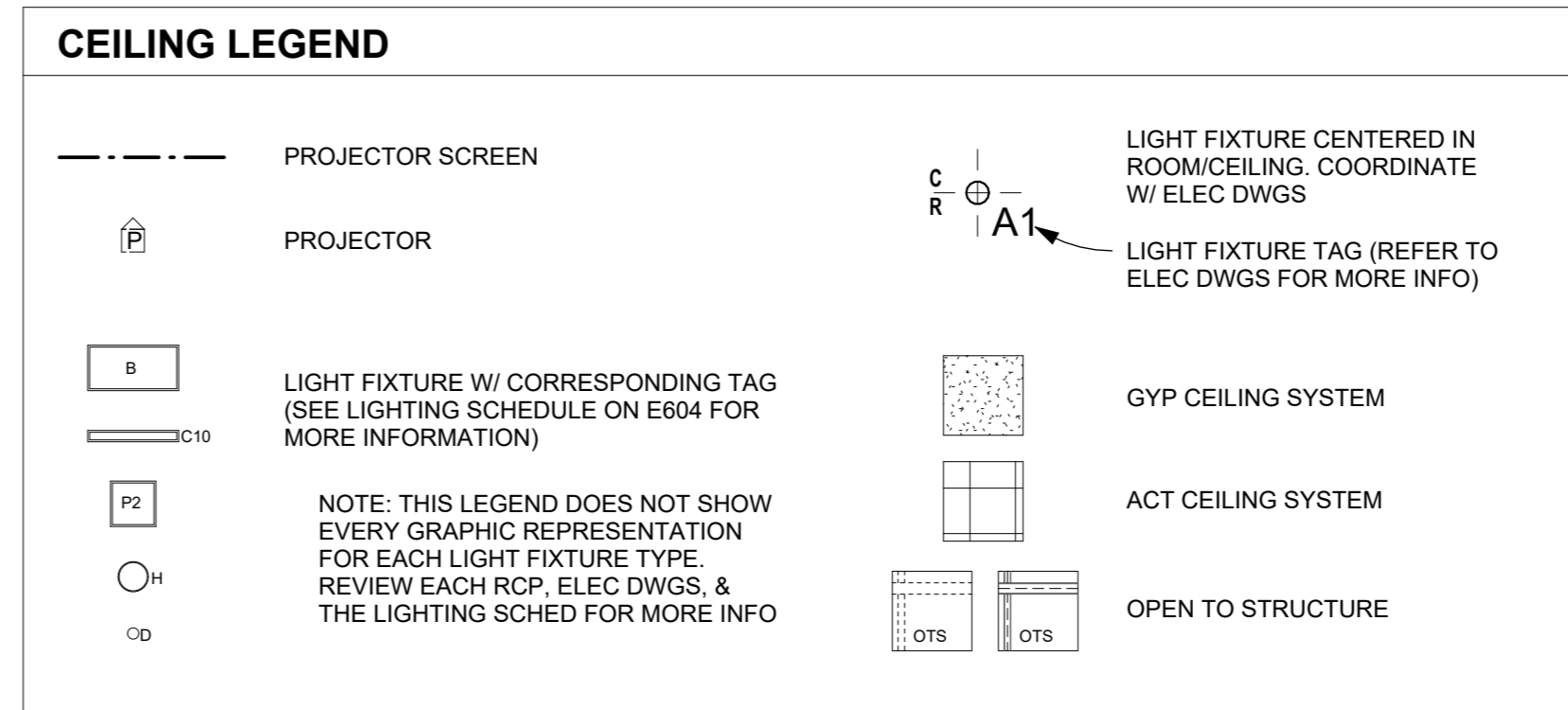
Professional Seal

No.	Date	Issue
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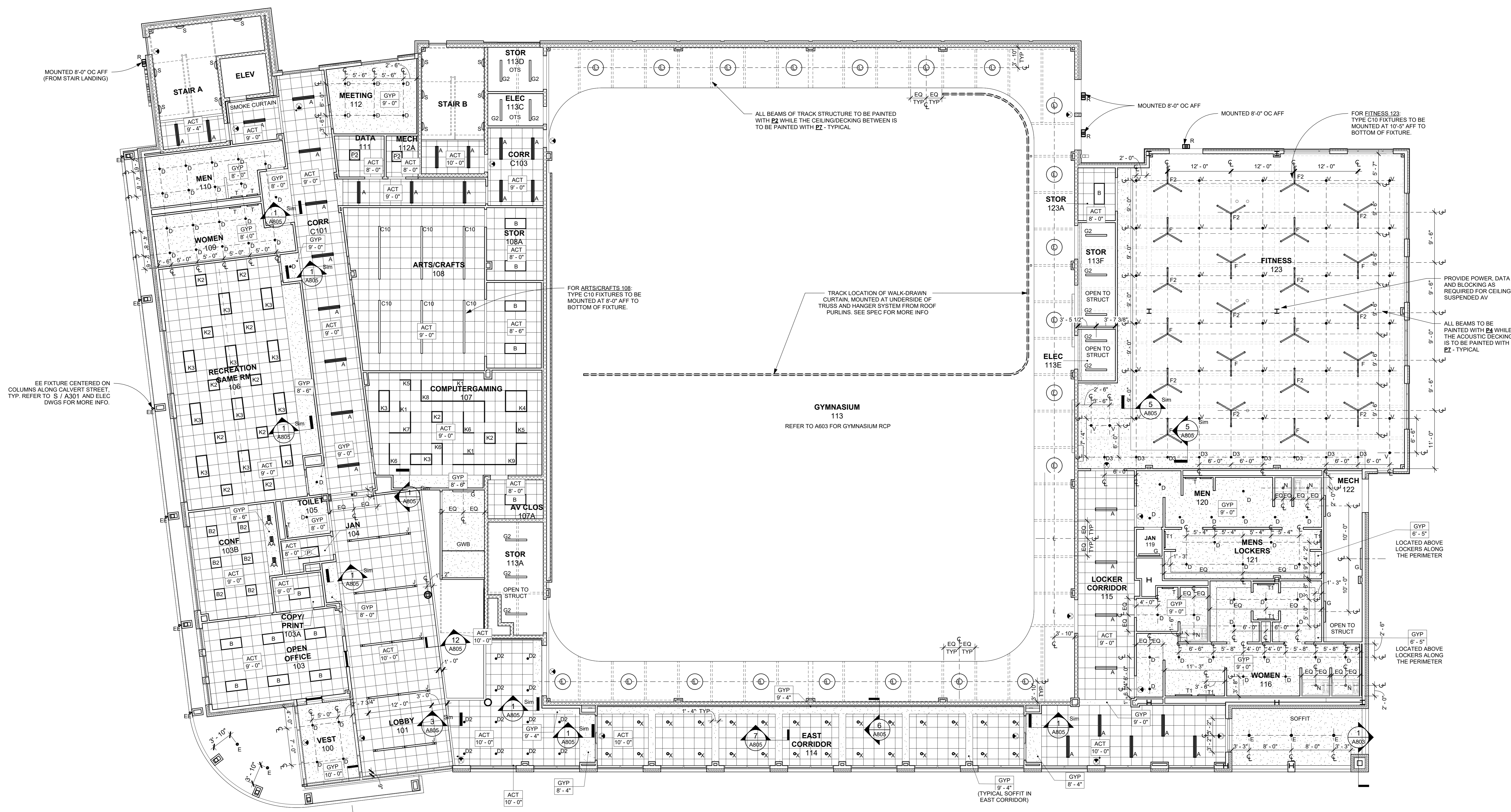
LOWER LEVEL REFLECTED CEILING PLAN

Job No.	2020-1005	Date	06/01/2020
Scale	AS NOTED	Drawn / Checked	
Sheet Number	A601		





- ### CEILING GENERAL NOTES
1. CEILING GRIDS SHALL BE CENTERED IN ROOM OR SPACE.
 2. ALL CEILING MOUNTED ELEMENTS, INCLUDING, BUT NOT LIMITED TO: EXIT SIGNS, HVAC REGISTERS, SPRINKLER HEADS, WIRELESS ACCESS POINTS, ETC. SHALL BE CENTERED IN CEILING TILES.
 3. SEE MEP DRAWINGS FOR LIGHTING FIXTURE SCHEDULE & OTHER CEILING MOUNTED ELECTRICAL, MECHANICAL & PLUMBING ELEMENTS.
 4. SEE FINISH SCHEDULE & SPECIFICATIONS FOR CEILING MATERIALS & FINISHES.
 5. CEILING HEIGHTS SHOWN IN PLANS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ELSEWHERE.
 6. CONTRACTOR SHALL CONFIRM ALL LIGHT FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
 7. CONTRACTOR TO CONFIRM LOCATIONS OF ALL SLOT DIFFUSERS, SPRINKLER HEADS, SMOKE DETECTORS, ETC. MOUNTED IN GWB OR SPECIALTY CEILING / WALLS WITH ARCHITECT PRIOR TO INSTALLATION.



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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

1 1st FLOOR RCP
1/8" = 1'-0"

1st FLOOR REFLECTED CEILING PLAN

Job No.	2020-1005	Date	03/31/2020
Scale	AS NOTED	Drawn / Checked	- / -
Sheet Number	A602		

CEILING LEGEND

- PROJECTOR SCREEN
- ⊕ PROJECTOR
- LIGHT FIXTURE W/ CORRESPONDING TAG (SEE LIGHTING SCHEDULE ON E604 FOR MORE INFORMATION)
- LIGHT FIXTURE TAG (REFER TO ELEC DWGS FOR MORE INFO)
- LIGHT FIXTURE CENTERED IN ROOM/CEILING, COORDINATE W/ ELEC DWGS
- GYP CEILING SYSTEM
- ACT CEILING SYSTEM
- OPEN TO STRUCTURE

NOTE: THIS LEGEND DOES NOT SHOW EVERY GRAPHIC REPRESENTATION FOR EACH LIGHT FIXTURE TYPE. REVIEW EACH RCP, ELEC DWGS, & THE LIGHTING SCHED FOR MORE INFO

- CEILING GENERAL NOTES**
- CEILING GRIDS SHALL BE CENTERED IN ROOM OR SPACE.
 - ALL CEILING MOUNTED ELEMENTS, INCLUDING, BUT NOT LIMITED TO: EXIT SIGNS, HVAC REGISTERS, SPRINKLER HEADS, WIRELESS ACCESS POINTS, ETC. SHALL BE CENTERED IN CEILING TILES.
 - SEE MEP DRAWINGS FOR LIGHTING FIXTURE SCHEDULE & OTHER CEILING MOUNTED ELECTRICAL, MECHANICAL & PLUMBING ELEMENTS.
 - SEE FINISH SCHEDULE & SPECIFICATIONS FOR CEILING MATERIALS & FINISHES.
 - CEILING HEIGHTS SHOWN IN PLANS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ELSEWHERE.
 - CONTRACTOR SHALL CONFIRM ALL LIGHT FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
 - CONTRACTOR TO CONFIRM LOCATIONS OF ALL SLOT DIFFUSERS, SPRINKLER HEADS, SMOKE DETECTORS, ETC. MOUNTED IN GWB OR SPECIALTY CEILING / WALLS WITH ARCHITECT PRIOR TO INSTALLATION.



1 2nd FLOOR RCP
1/8" = 1'-0"

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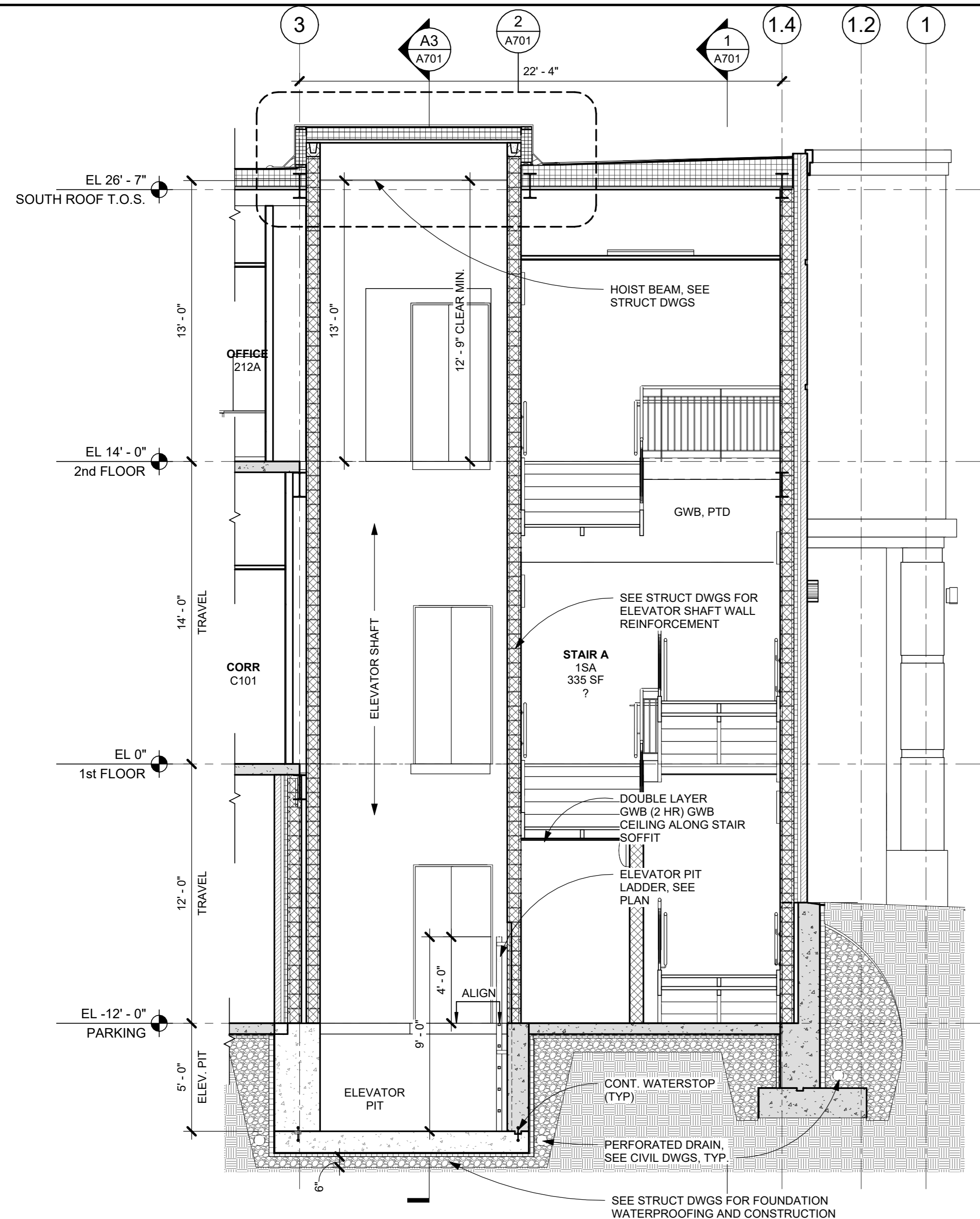
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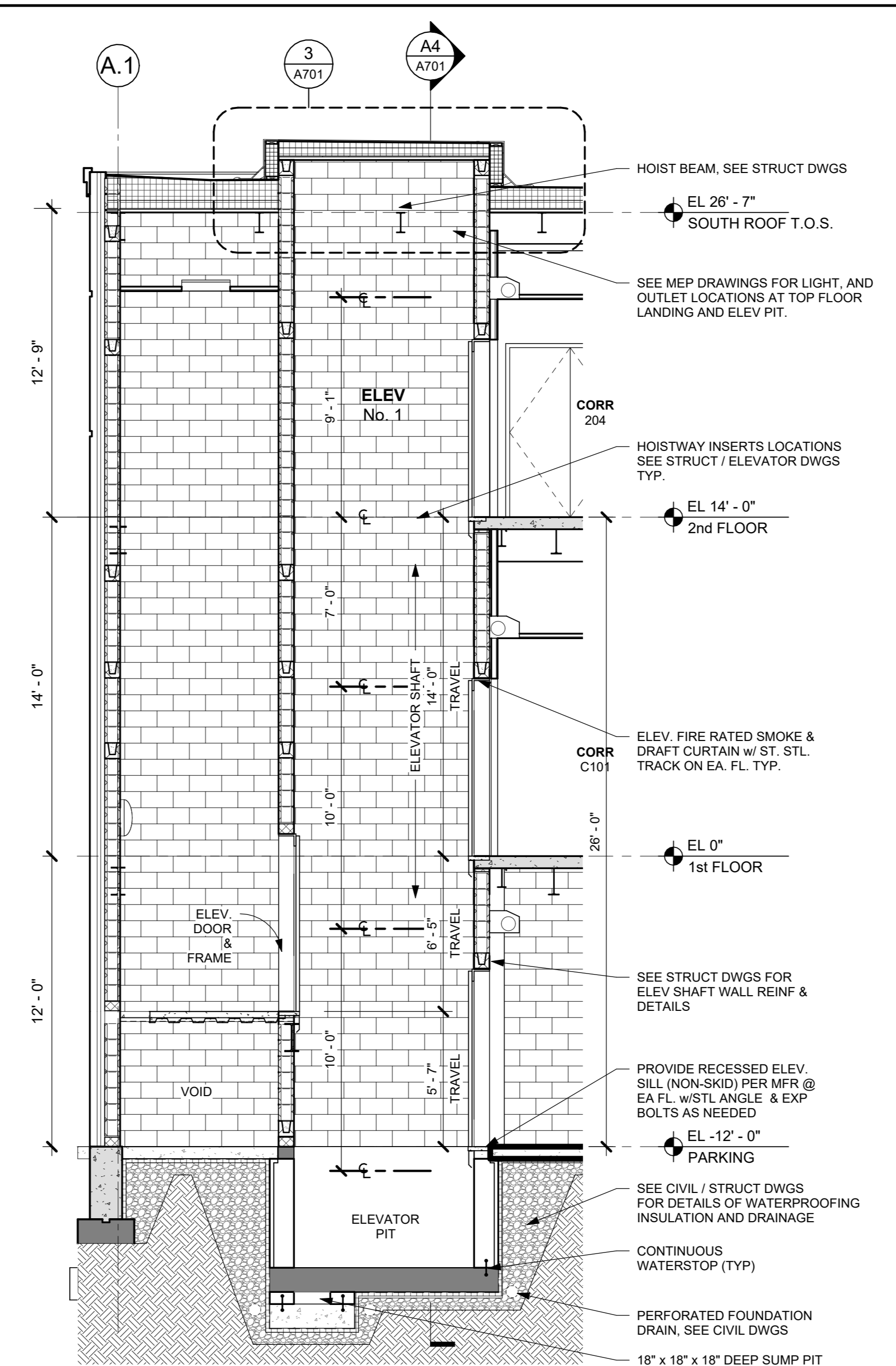
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1	03/31/2020	50% DESIGN DEVELOPMENT

2nd FLOOR REFLECTED CEILING PLAN

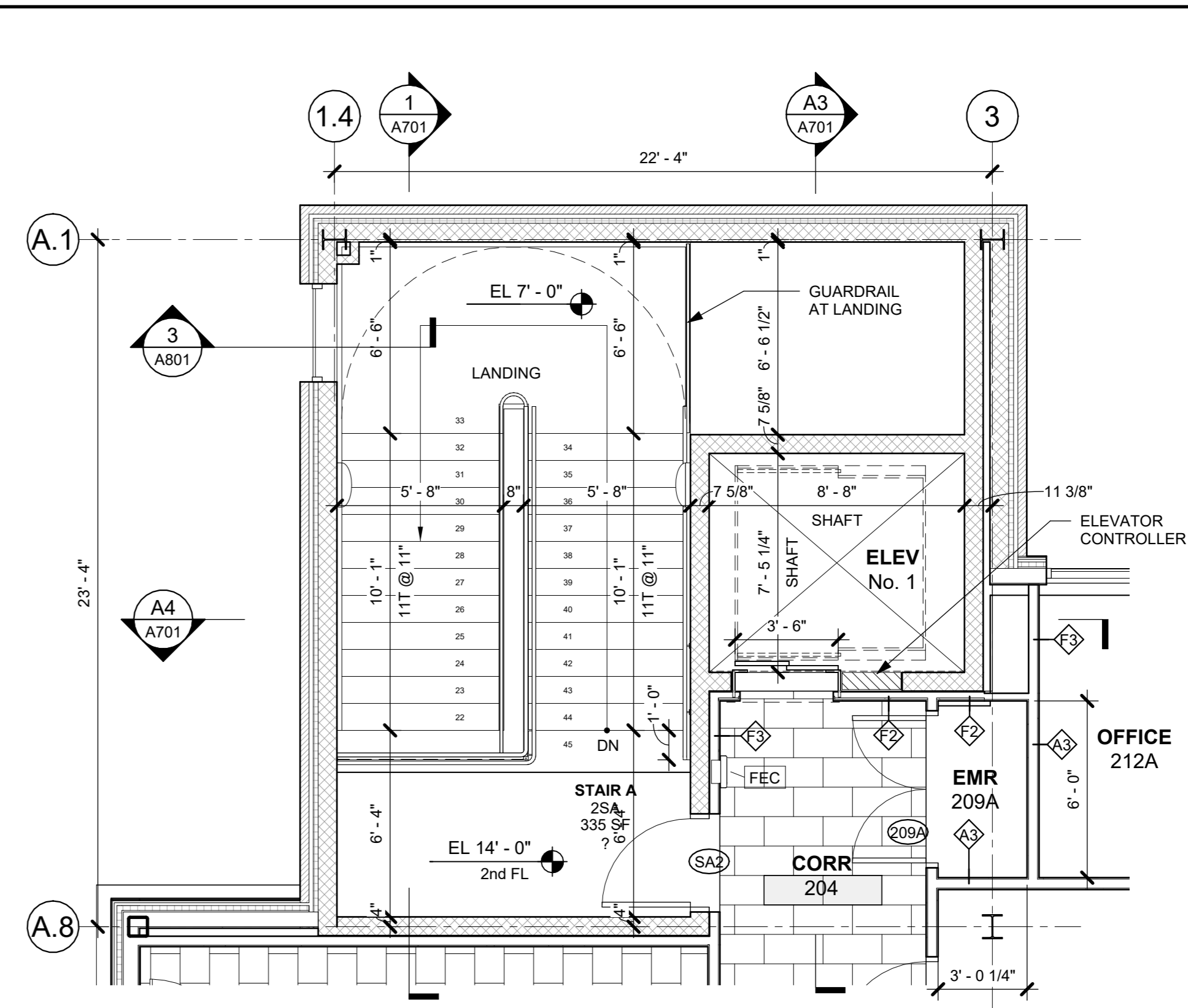
Job No. 2020-1005	Date 03/31/2020
Scale AS NOTED	Drawn / Checked ---
Sheet Number A603	



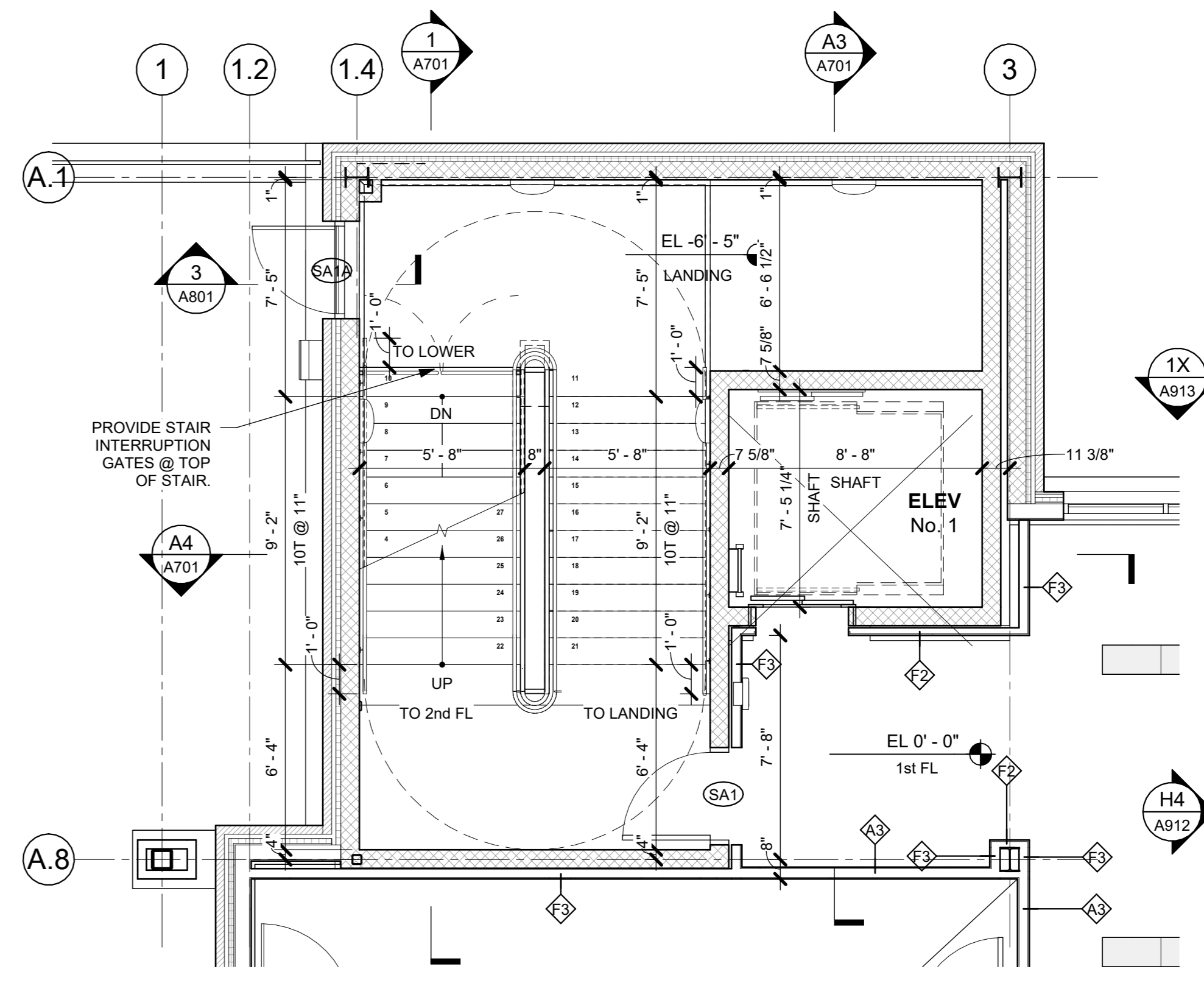
A4 SECTION A4 AT STAIR A & ELEV
1/4" = 1'-0"



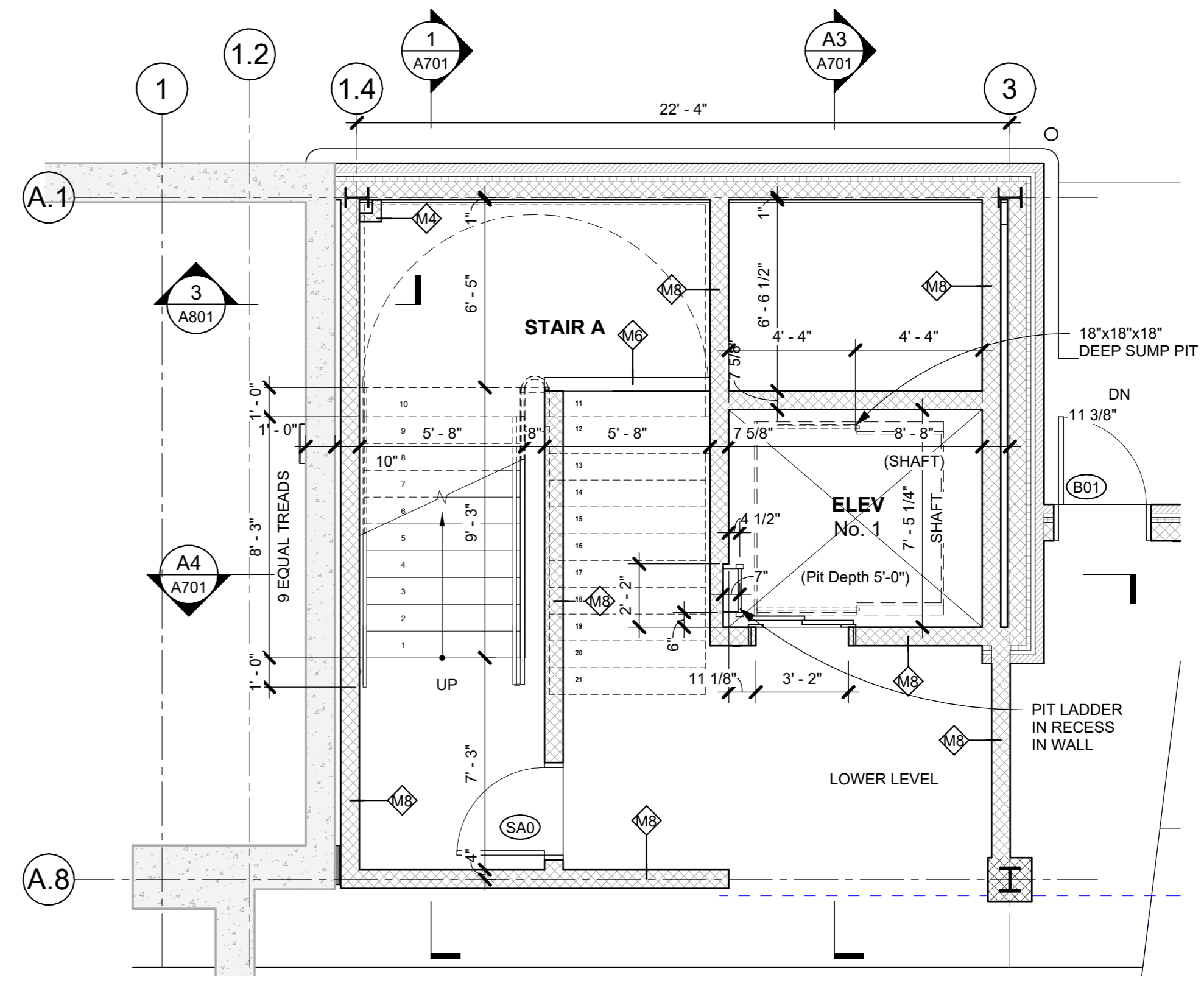
A3 SECTION A3 AT ELEV
1/4" = 1'-0"



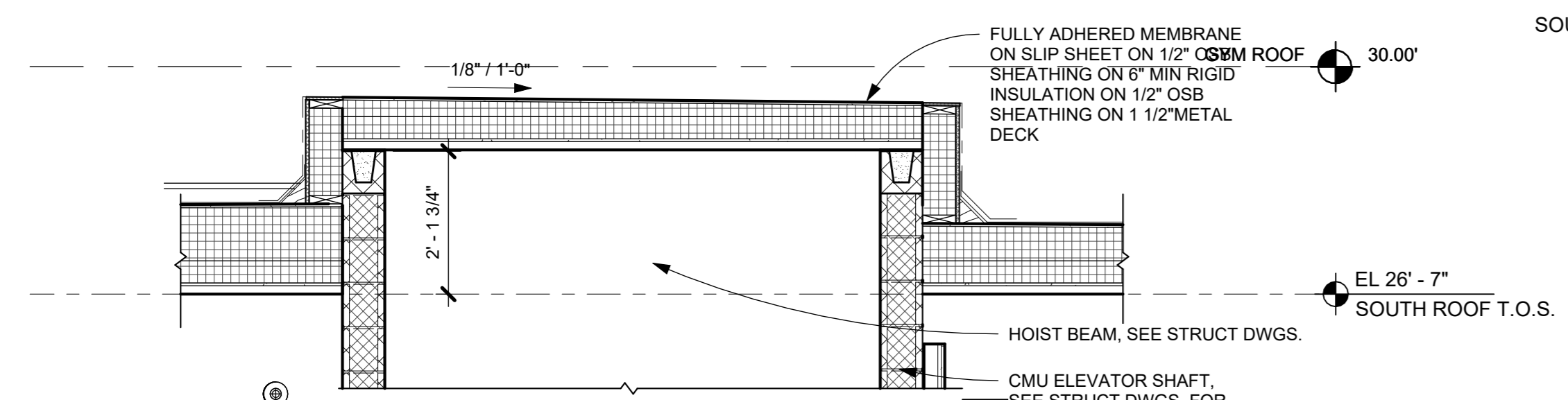
A2 STAIR A - 2nd FL PLAN
1/4" = 1'-0"



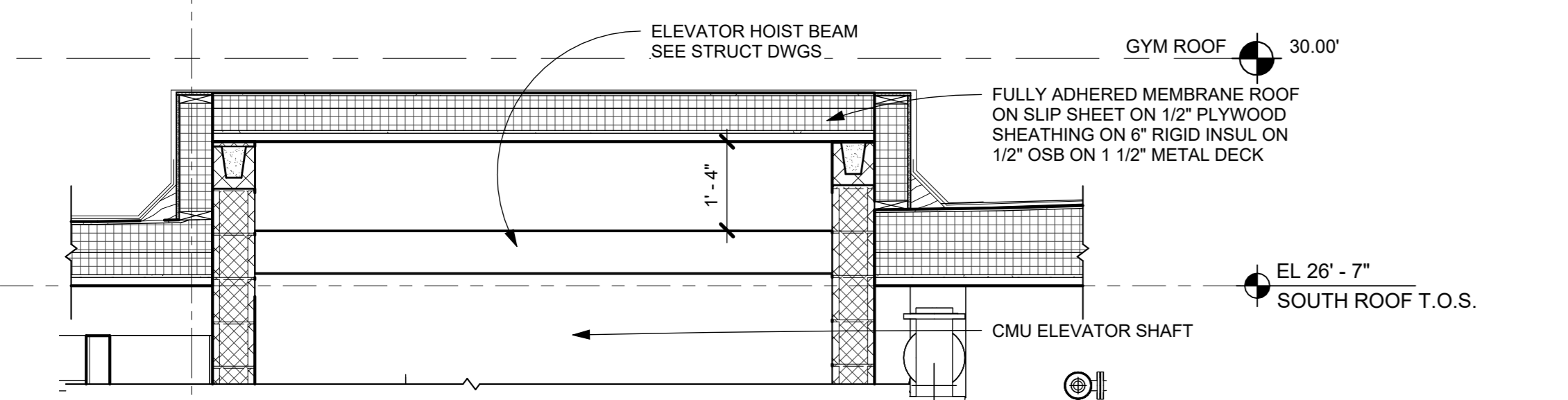
A1 STAIR A - 1st FL PLAN
1/4" = 1'-0"



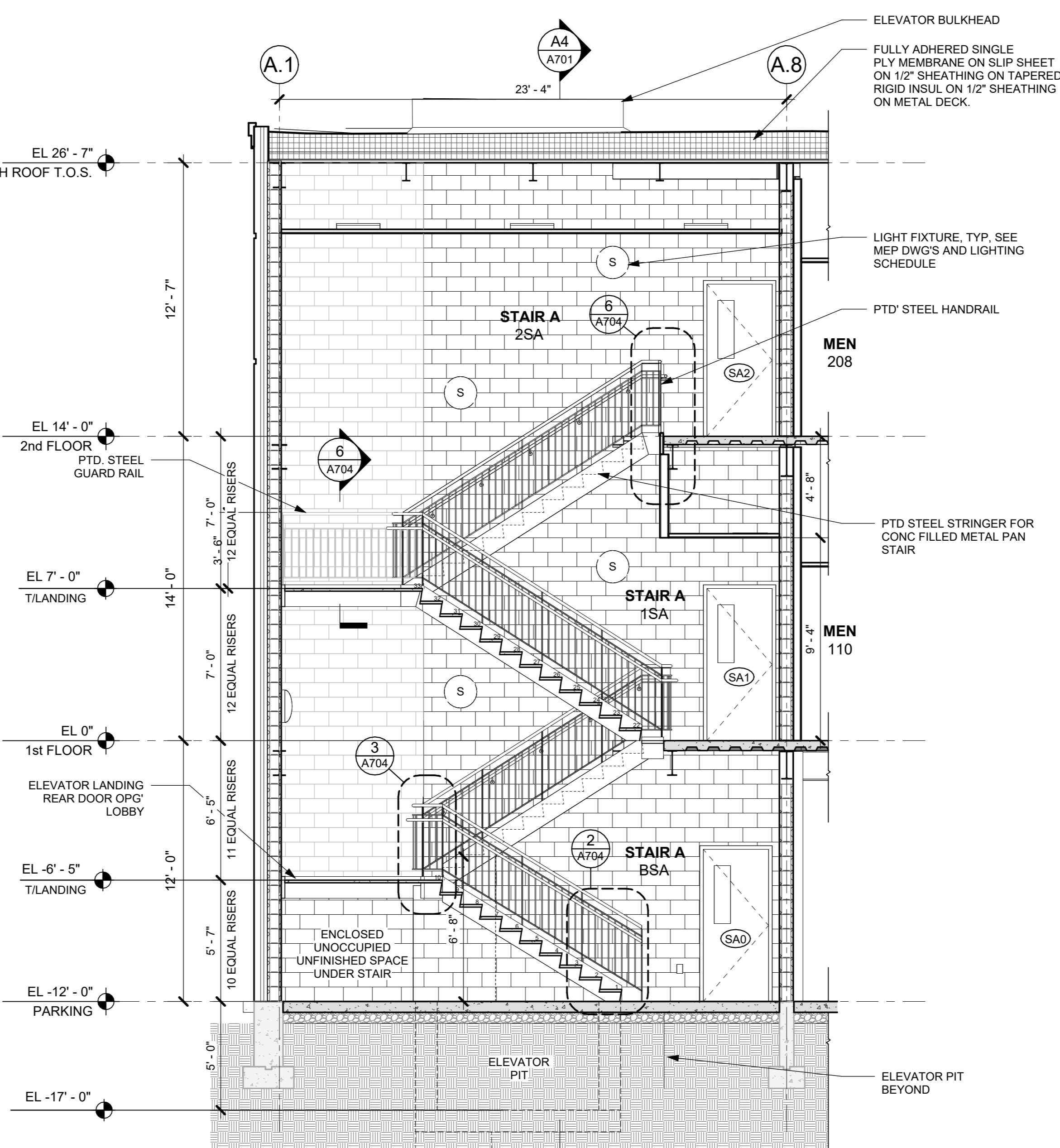
A0 STAIR A - LOWER LEVEL PLAN
1/4" = 1'-0"



3 ELEVATOR BULKHEAD - 1
1/2" = 1'-0"



2 ELEVATOR BULKHEAD - 2
1/2" = 1'-0"



1 SECTION AT STAIR A
1/4" = 1'-0"

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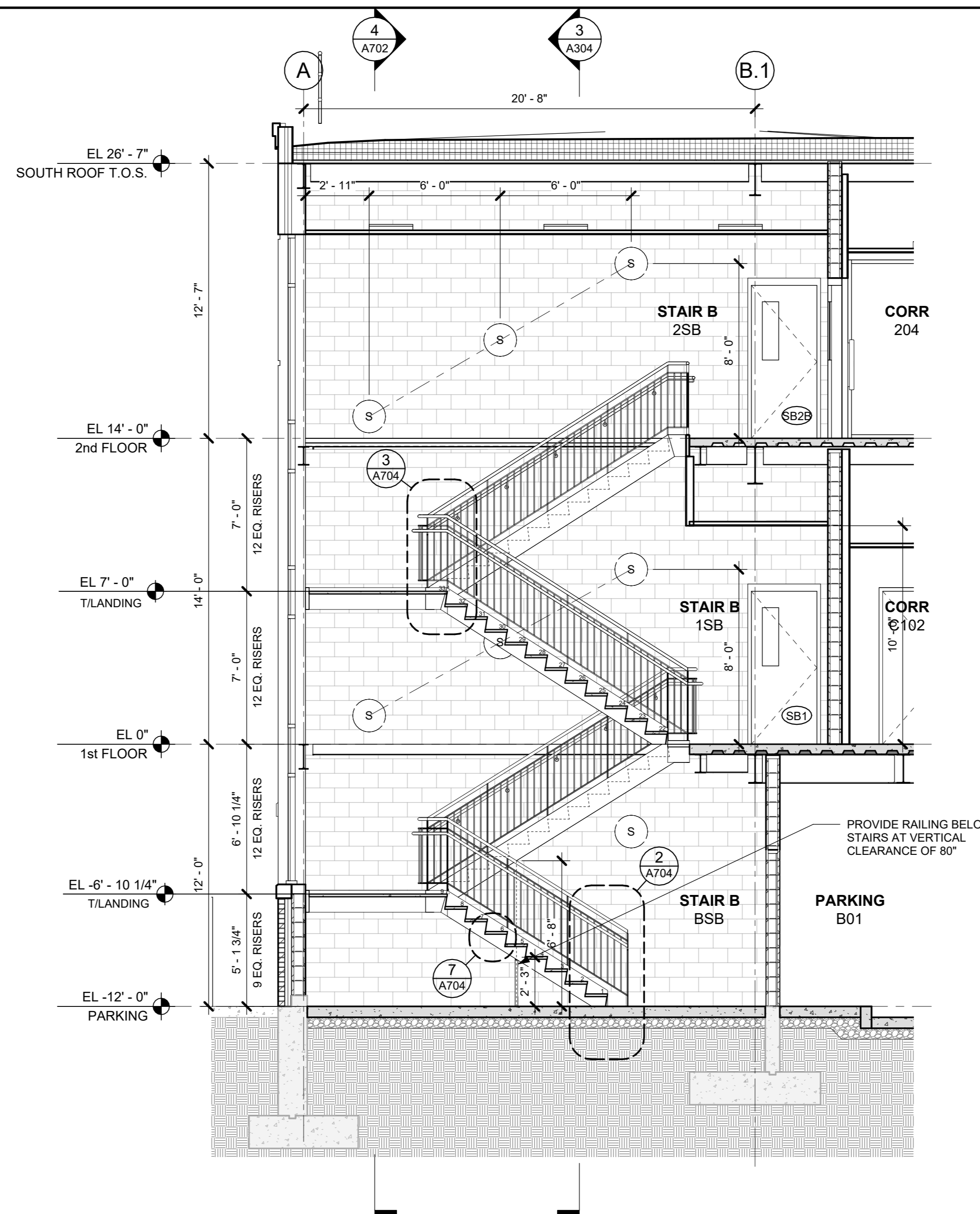
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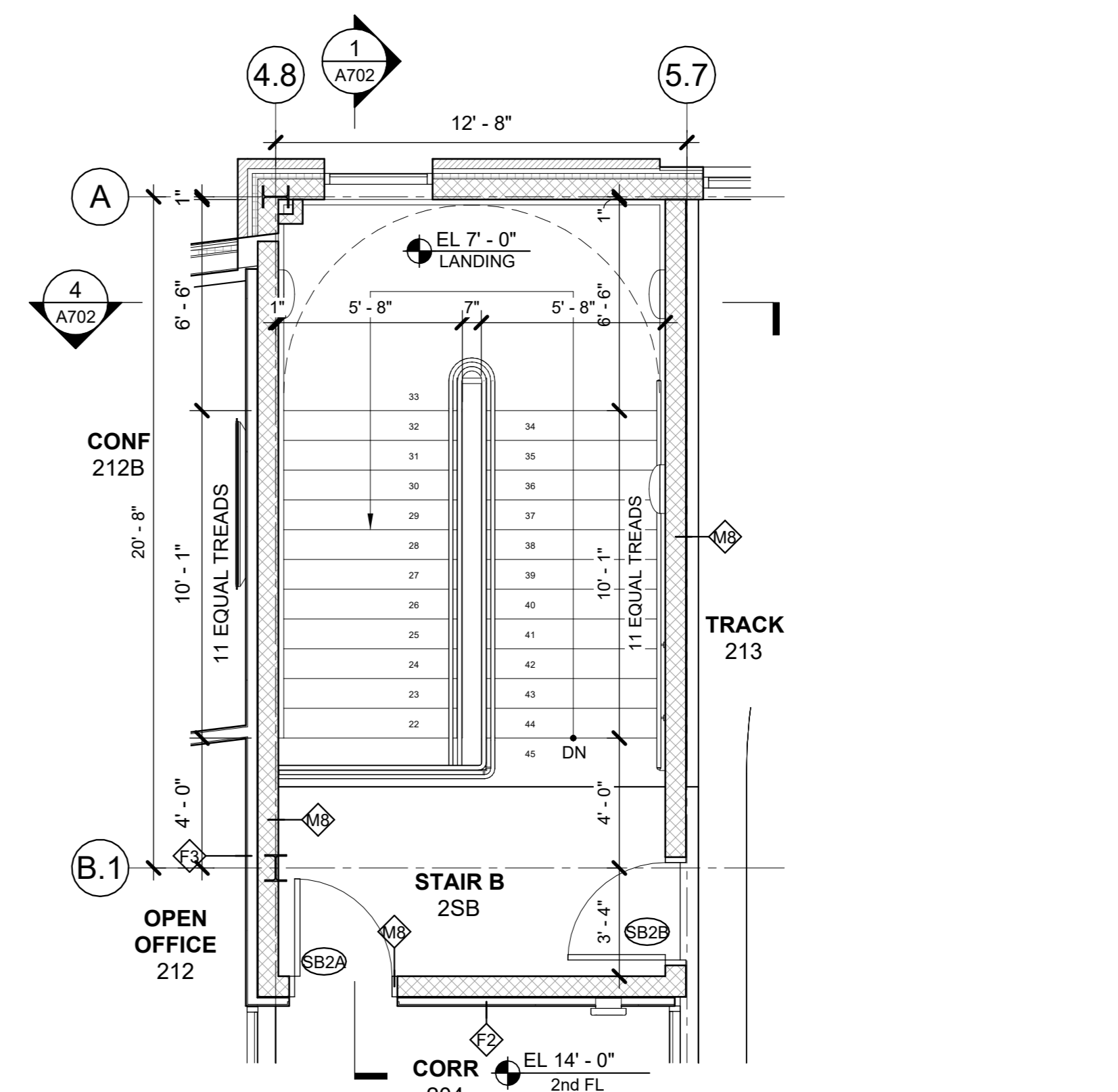
No.	Date	Issue
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1	03/31/2020	50% DESIGN DEVELOPMENT

ELEV & STAIR PLANS & SECTIONS

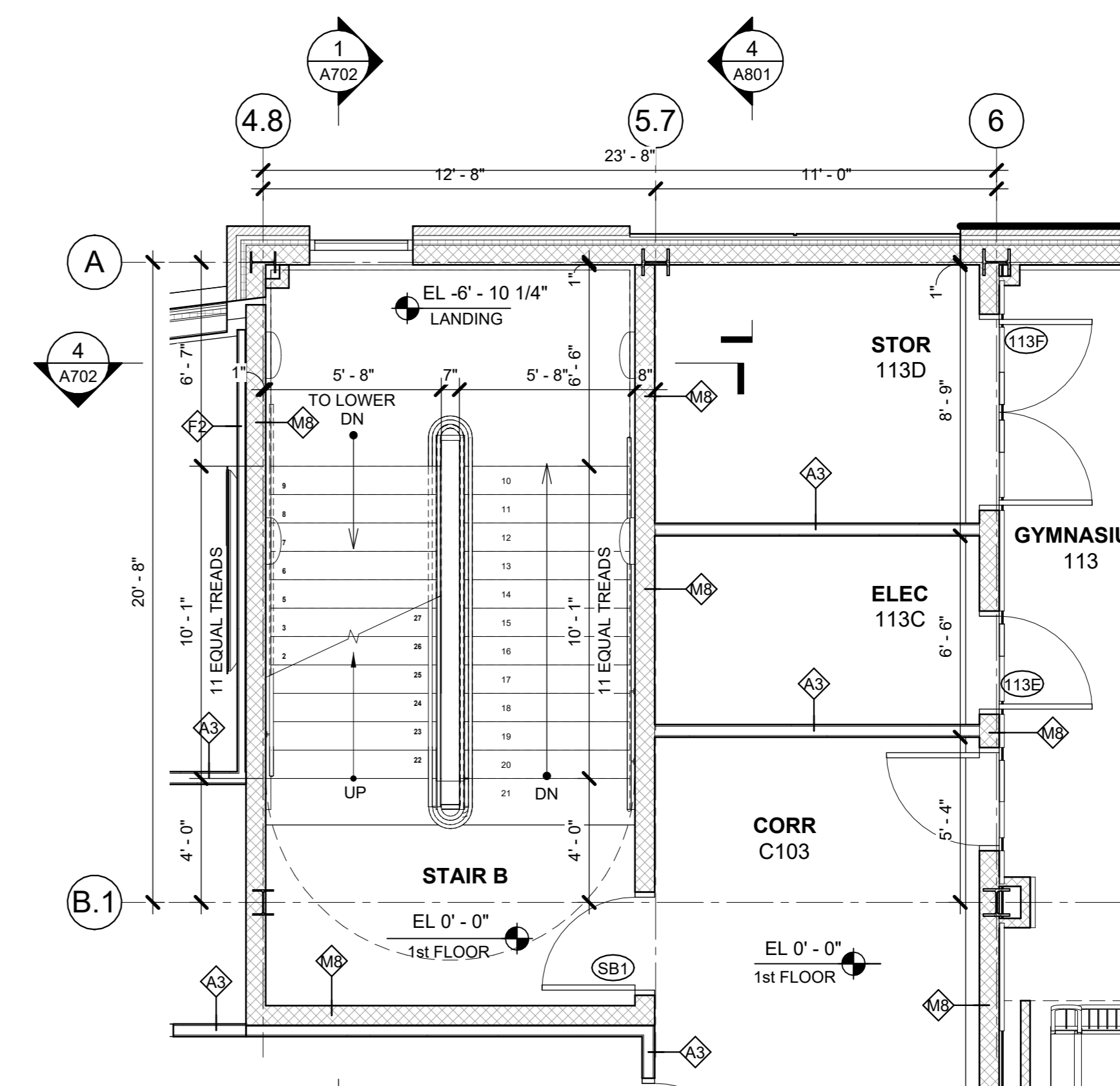
Job No.	2020-1005	Date	03/31/2020
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Sheet Number			



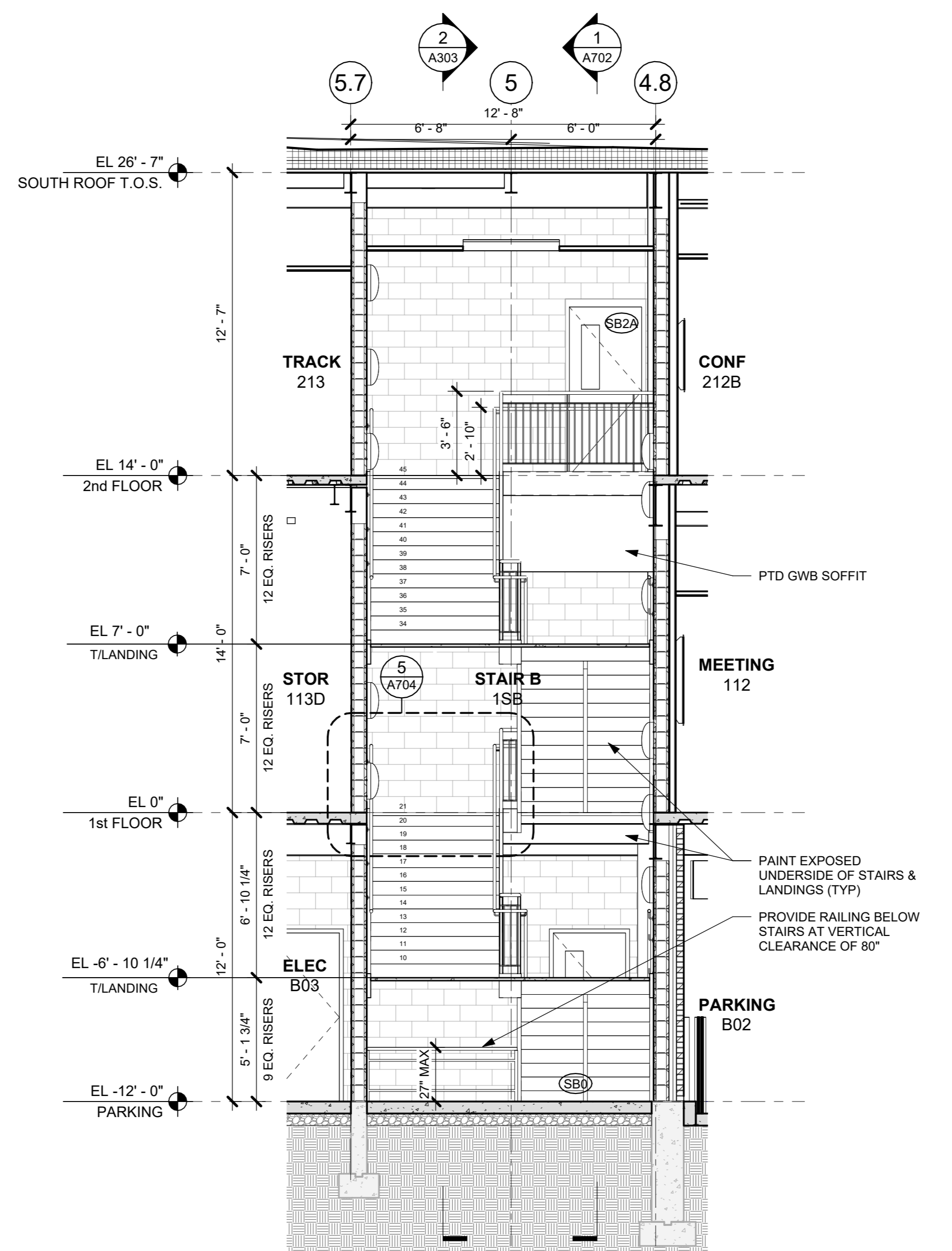
1 SECTION EW AT STAIR B
1/4" = 1'-0"



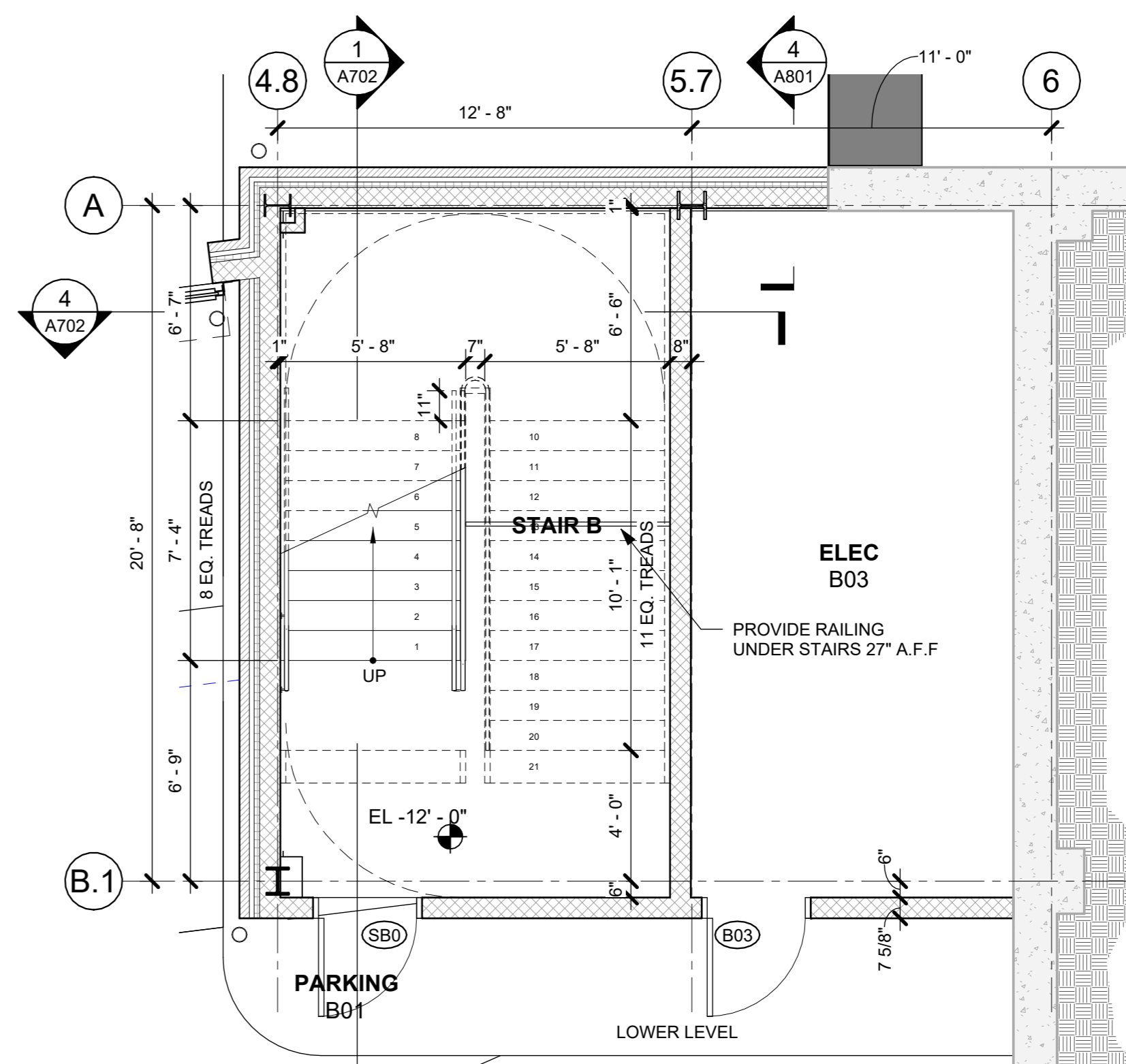
B2 STAIR B - 2nd FL PLAN
1/4" = 1'-0"



B1 STAIR B - 1st FL PLAN
1/4" = 1'-0"



4 SECTION NS AT STAIR B
1/4" = 1'-0"



B0 STAIR B - LOWER LEVEL PLAN
1/4" = 1'-0"

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

Sheet Title

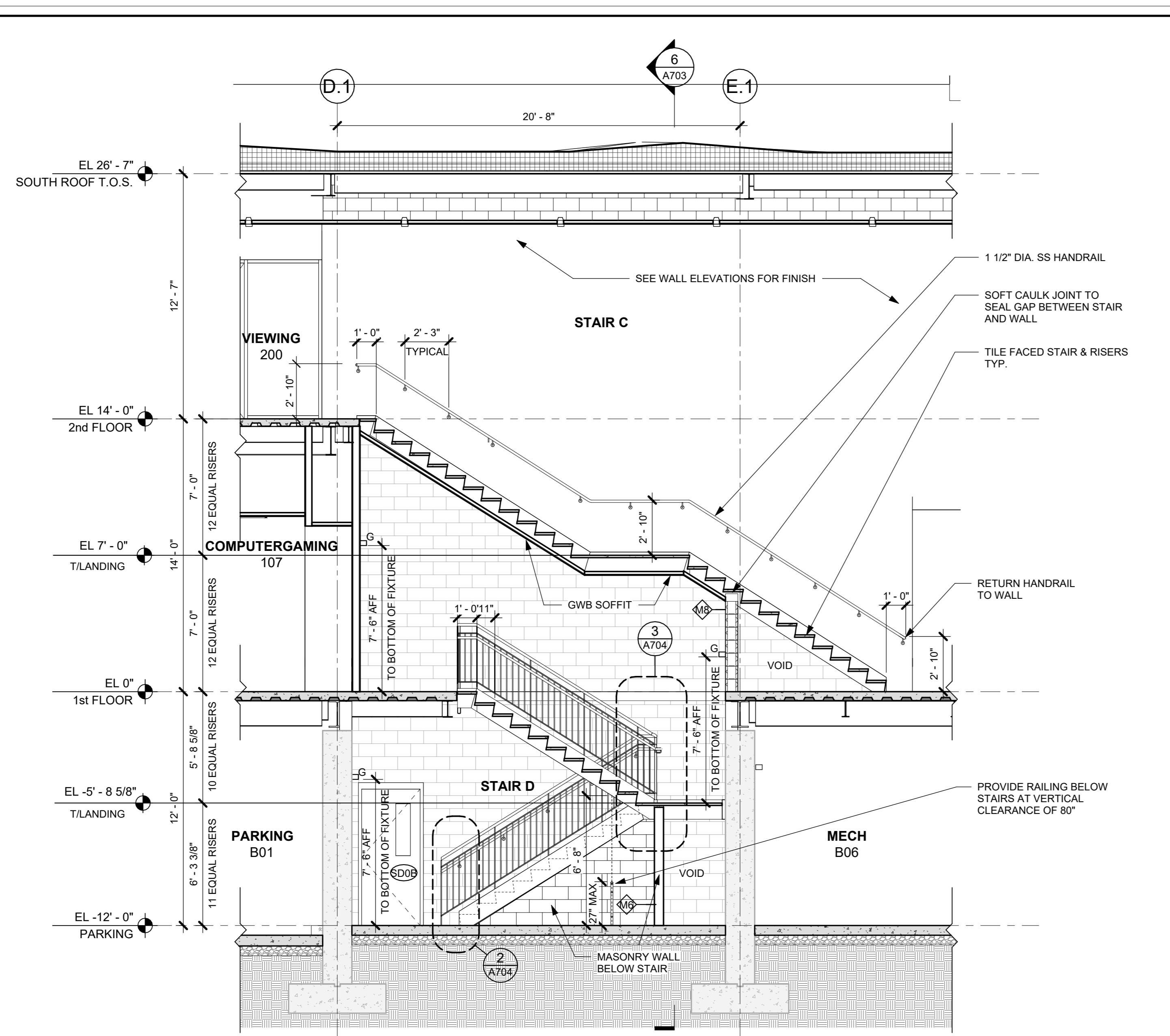
**STAIR PLANS &
SECTIONS**

Job No. 2020-1005 Date 06/01/2020

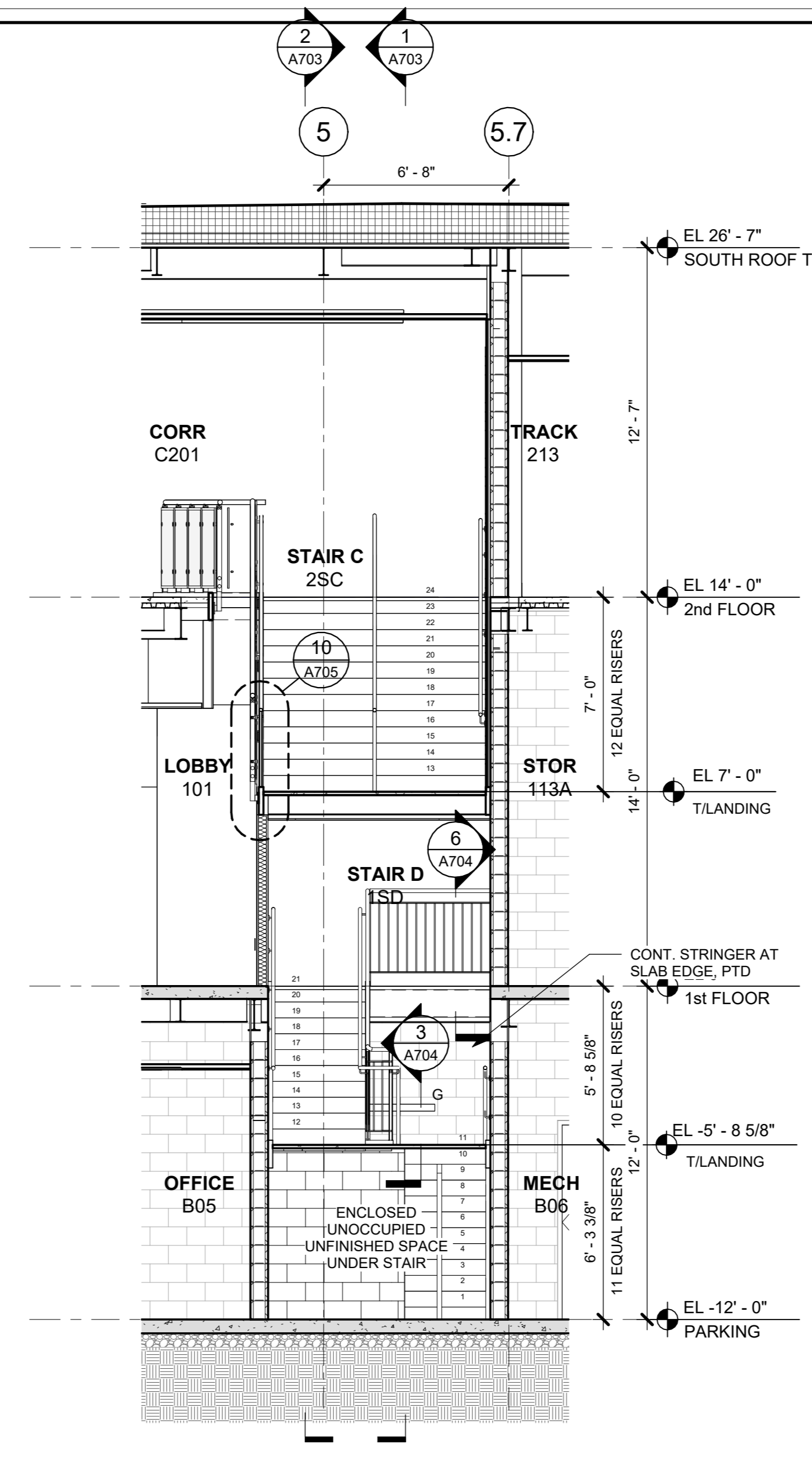
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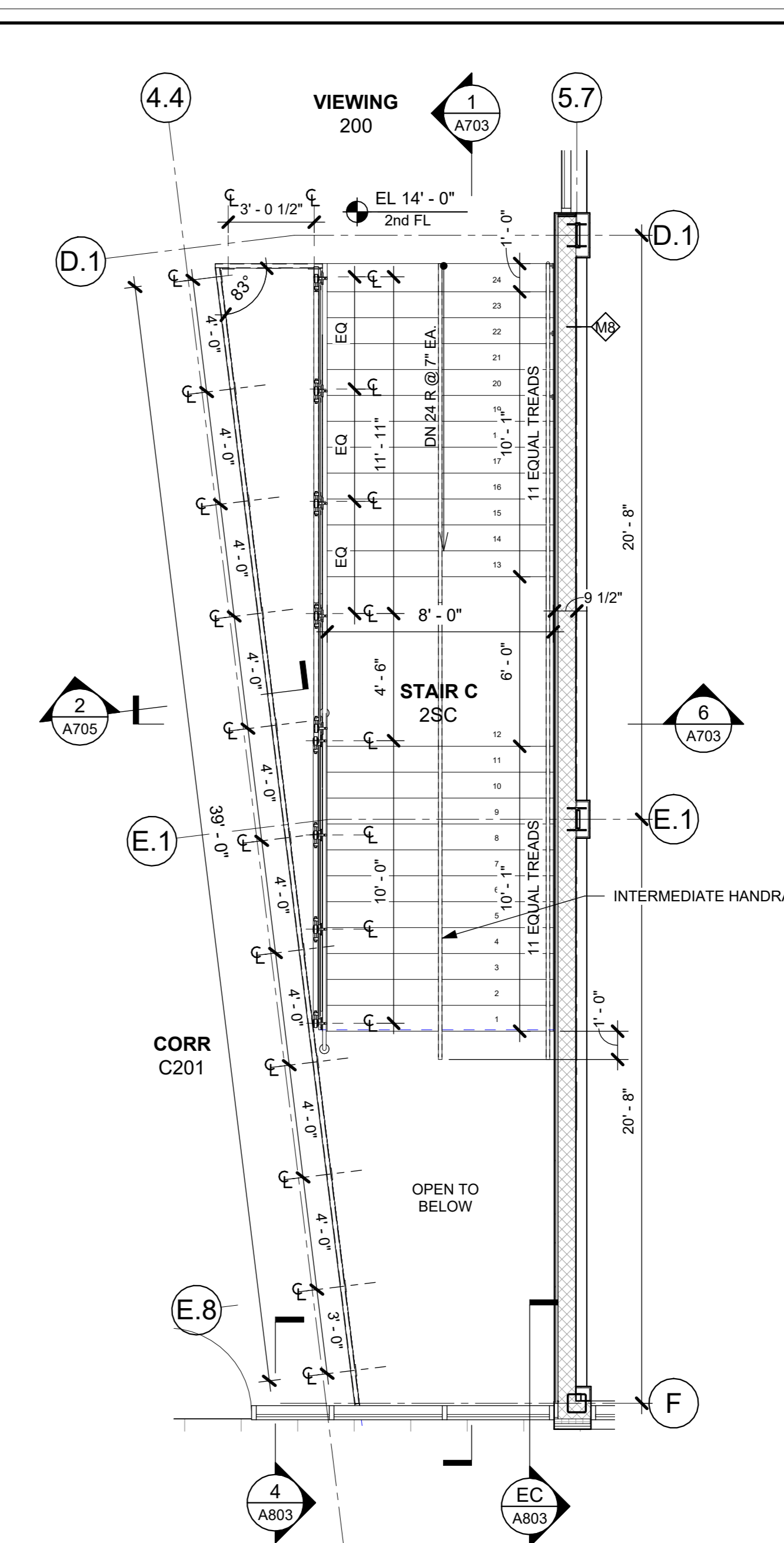
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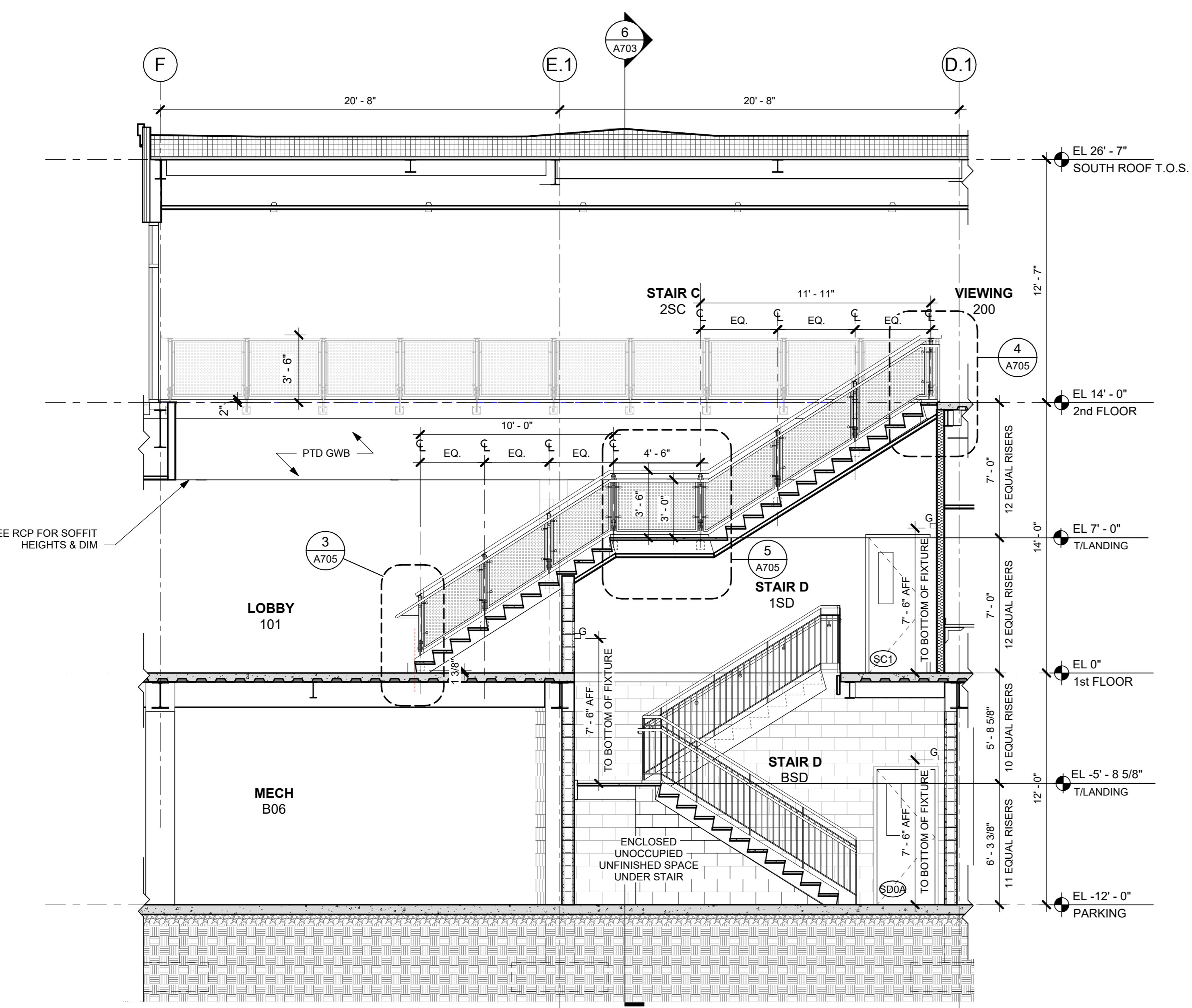
2 SECTION AT STAIR C & D NORTH ELEV
1/4" = 1'-0"



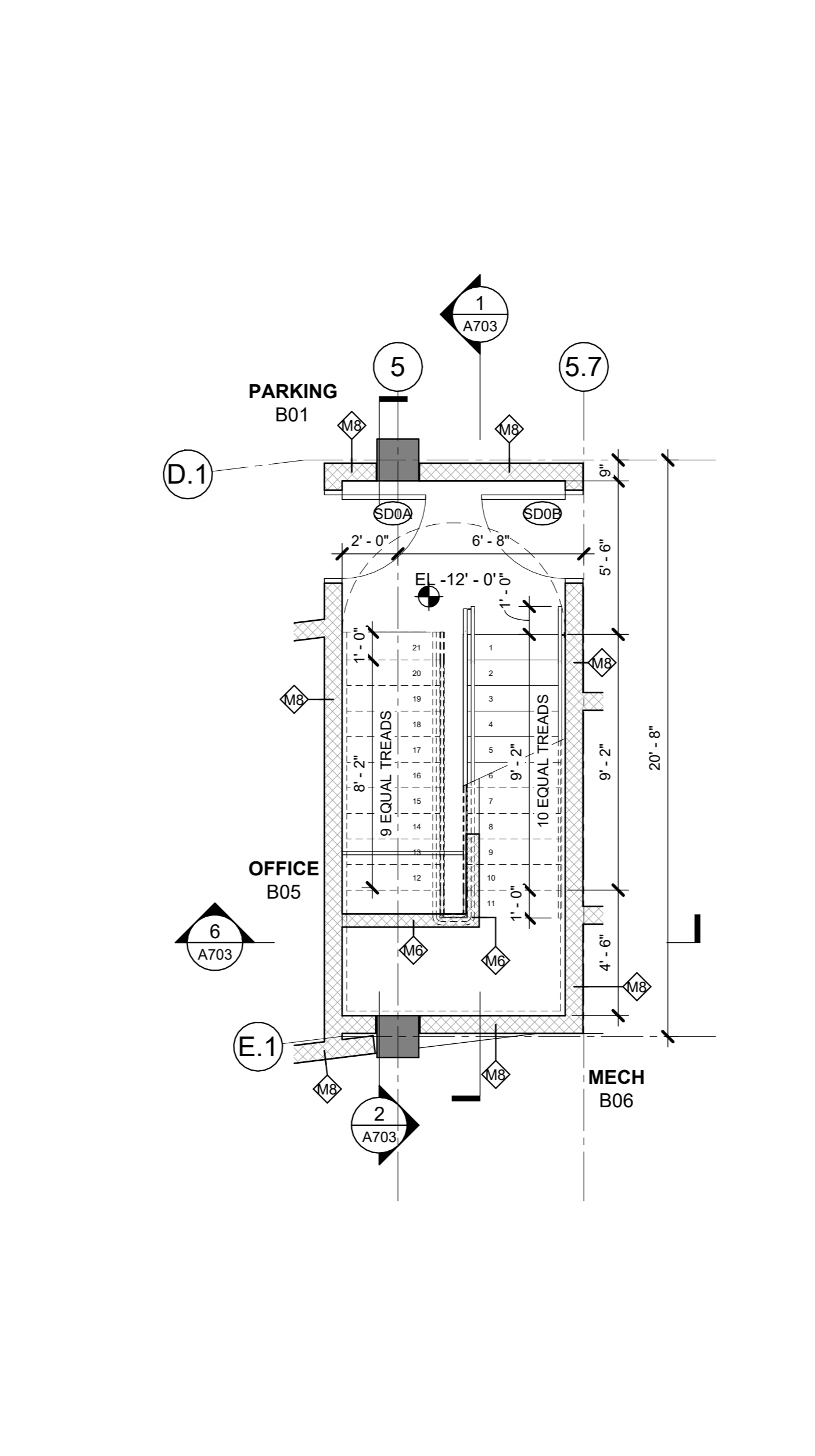
6 SECTION AT STAIR C
1/4" = 1'-0"



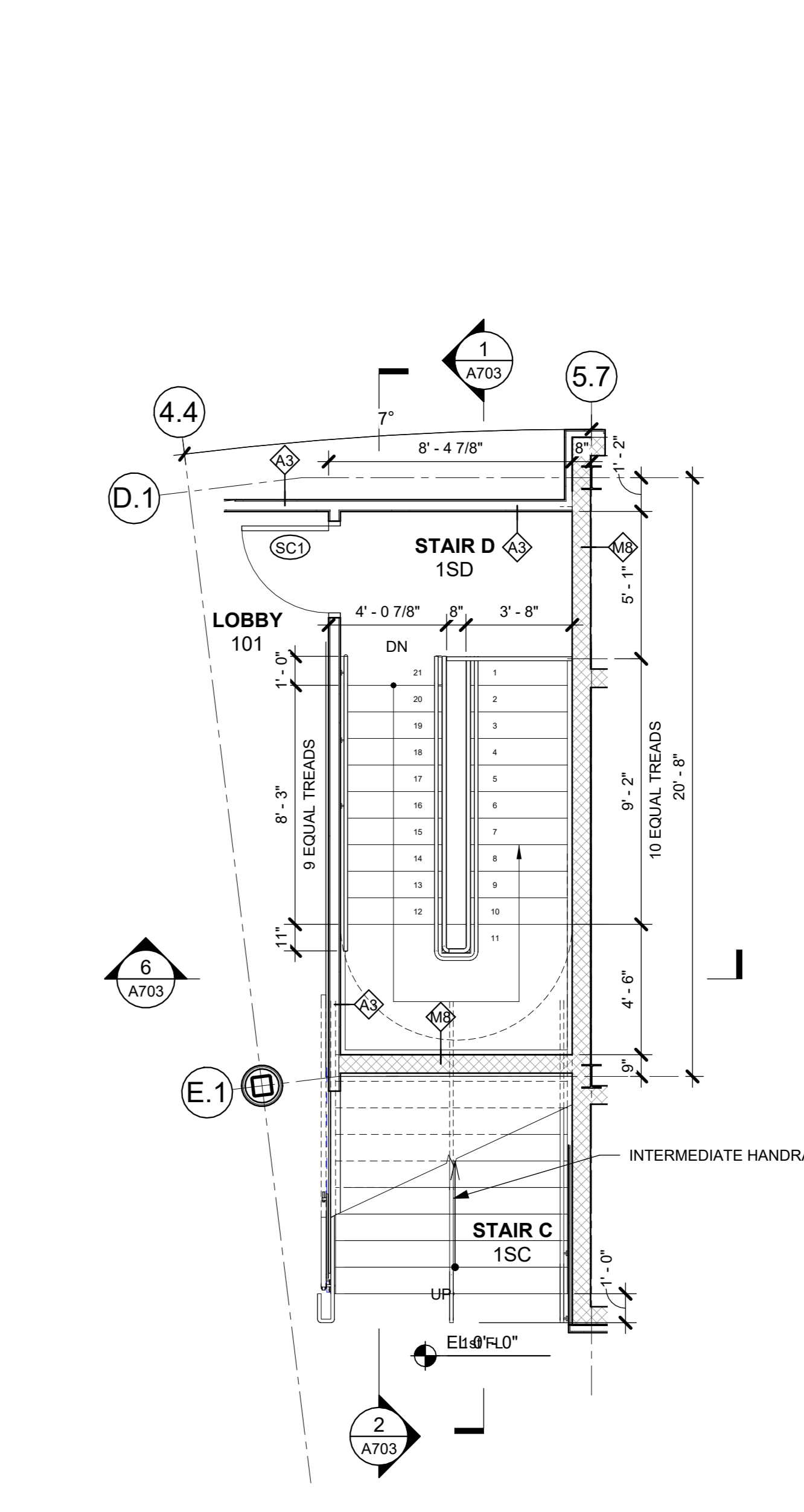
4 STAIR C - 2nd FL PLAN
1/4" = 1'-0"



1 SECTION AT STAIR C & D SOUTH ELEV
1/4" = 1'-0"



5 0 LOWER LEVEL PLAN - Callout 1
1/4" = 1'-0"



3 STAIR D - 1st FL PLAN
1/4" = 1'-0"

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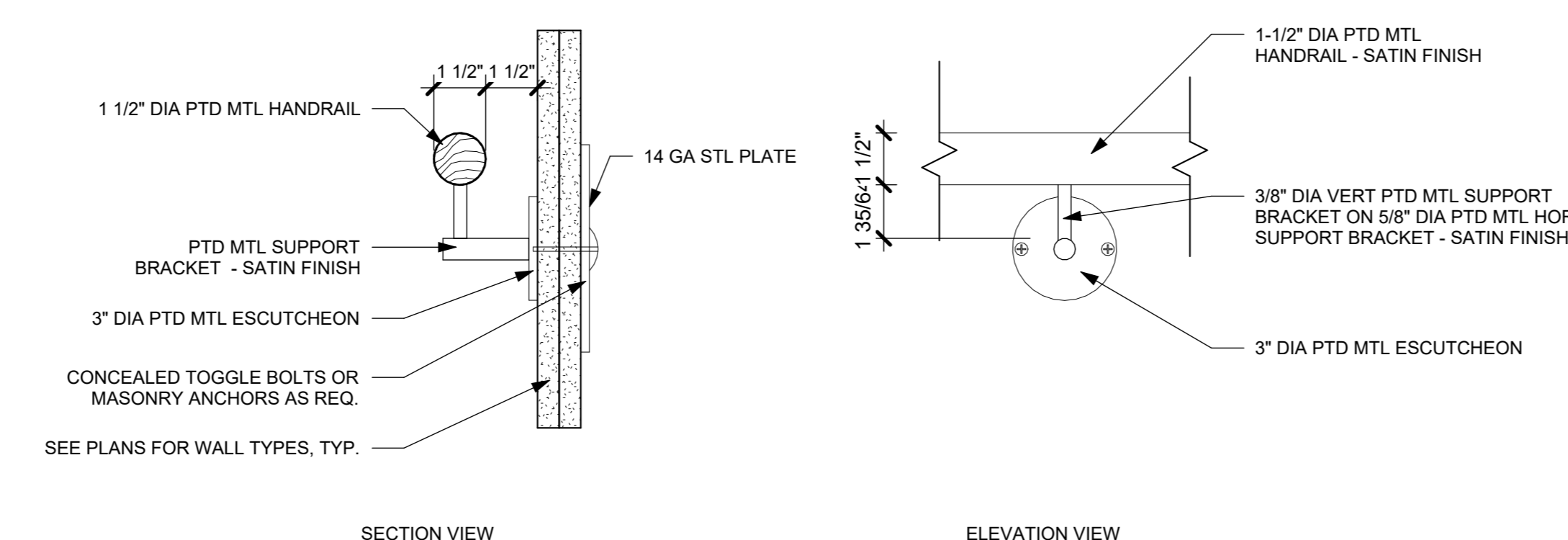
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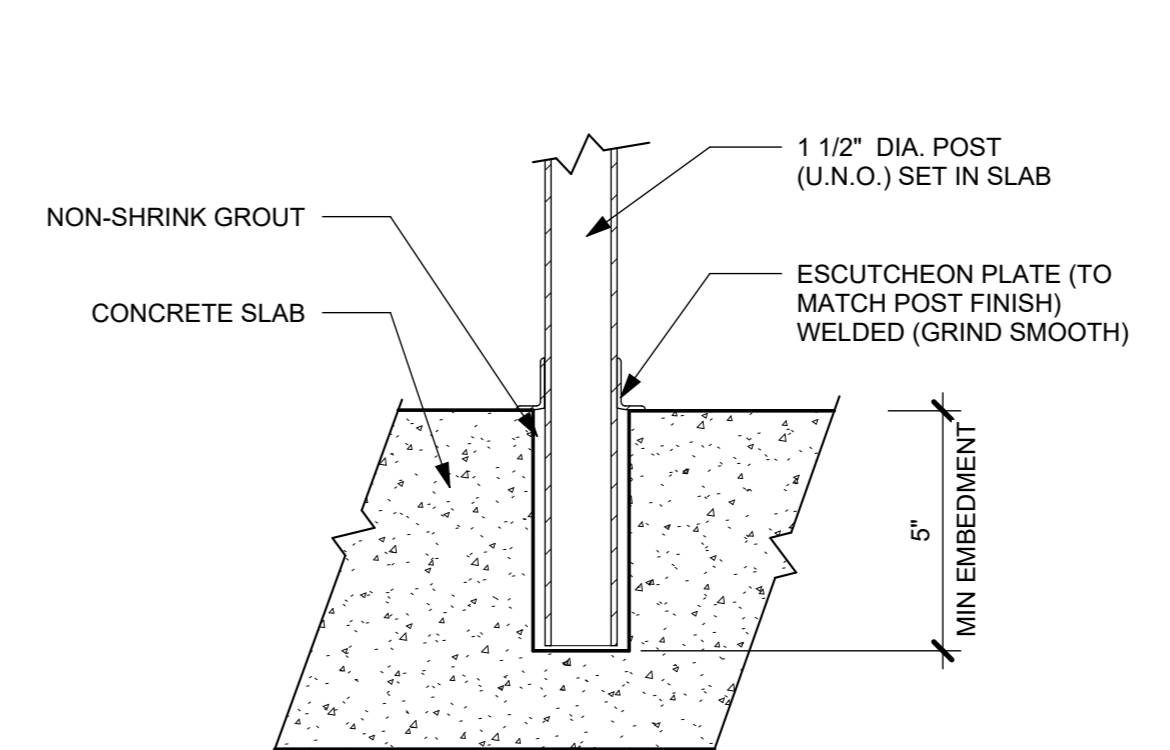
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STAIR PLANS & SECTIONS

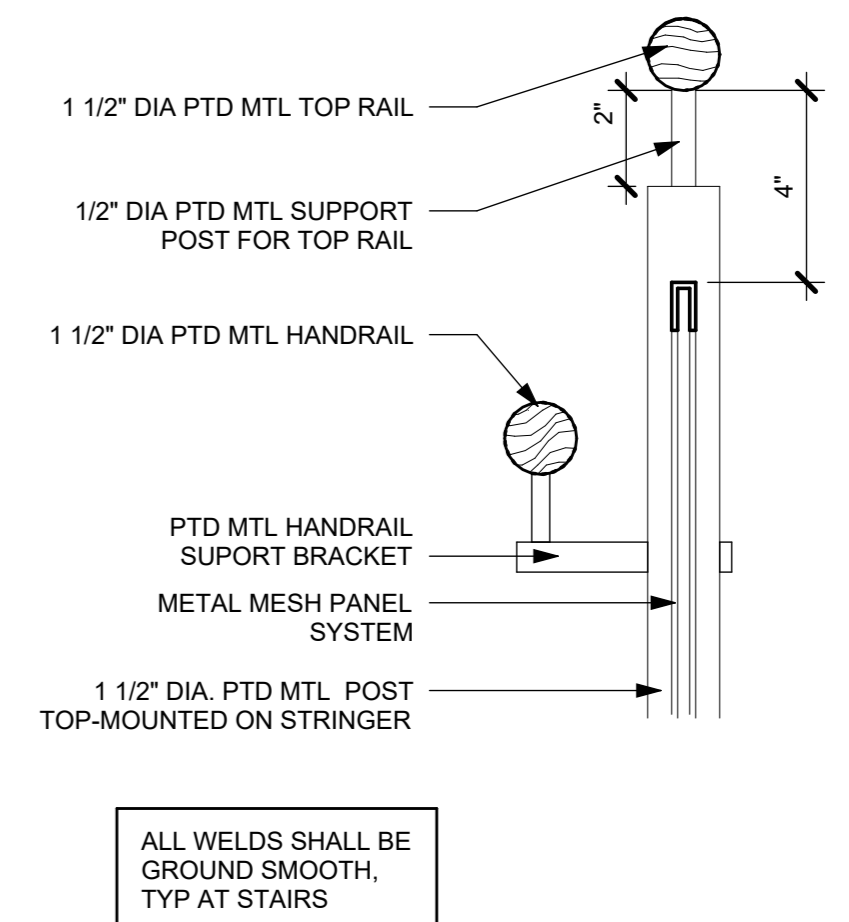
Job No.	2020-1005	Date	02/16/24
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	A703		



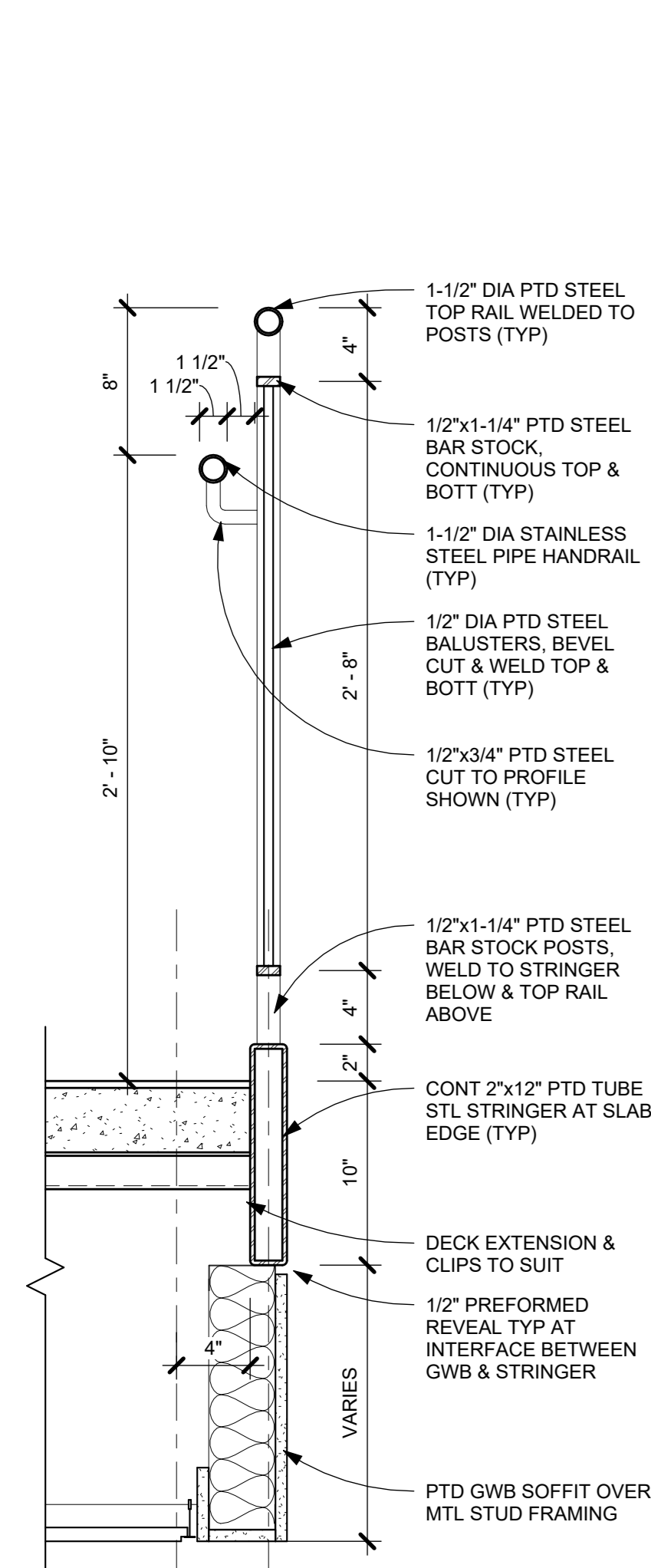
13 TYP DETAIL @ WALL MNTD HANDRAIL
3" = 1'-0"



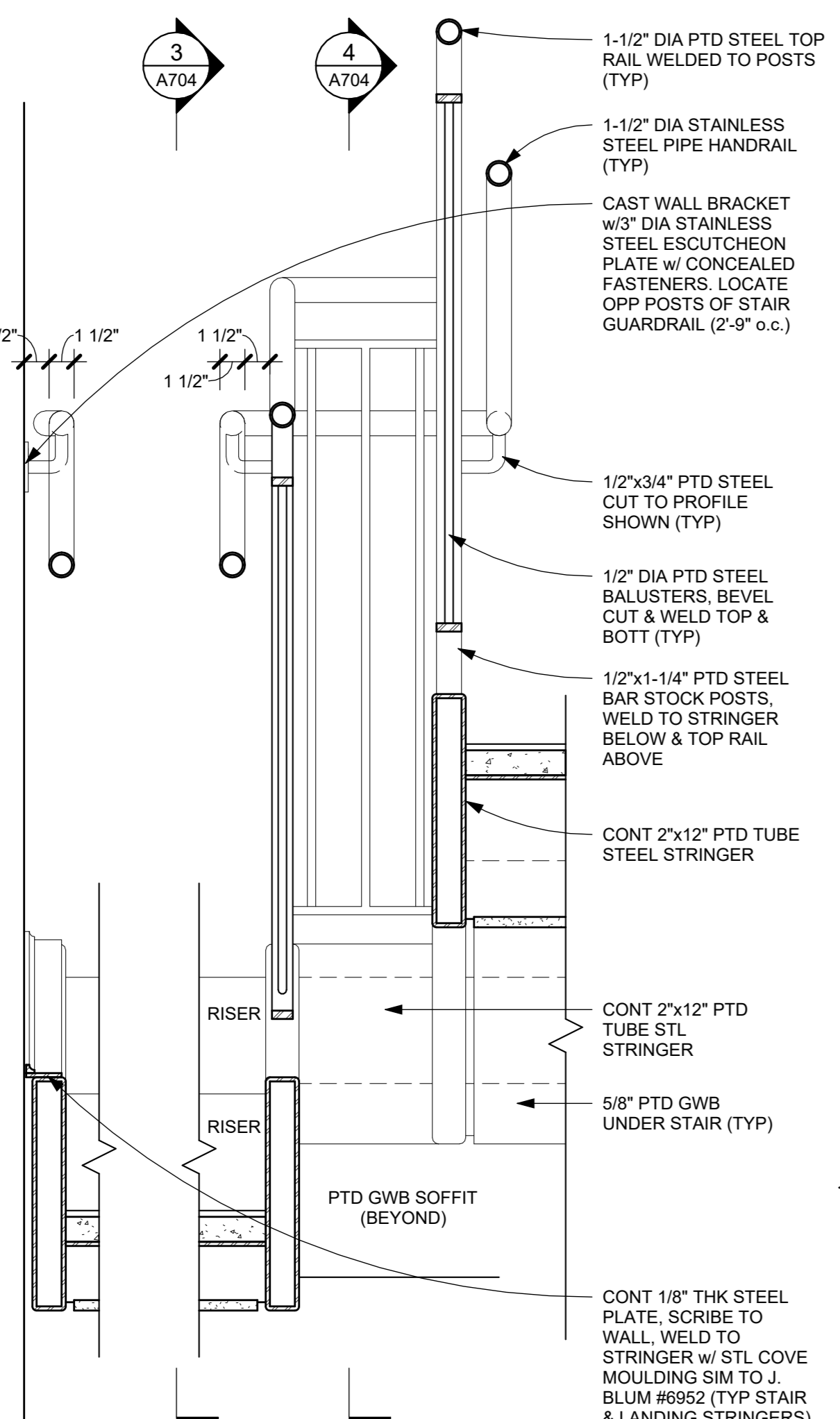
12 DETAIL @ POST SLEEVE
3" = 1'-0"



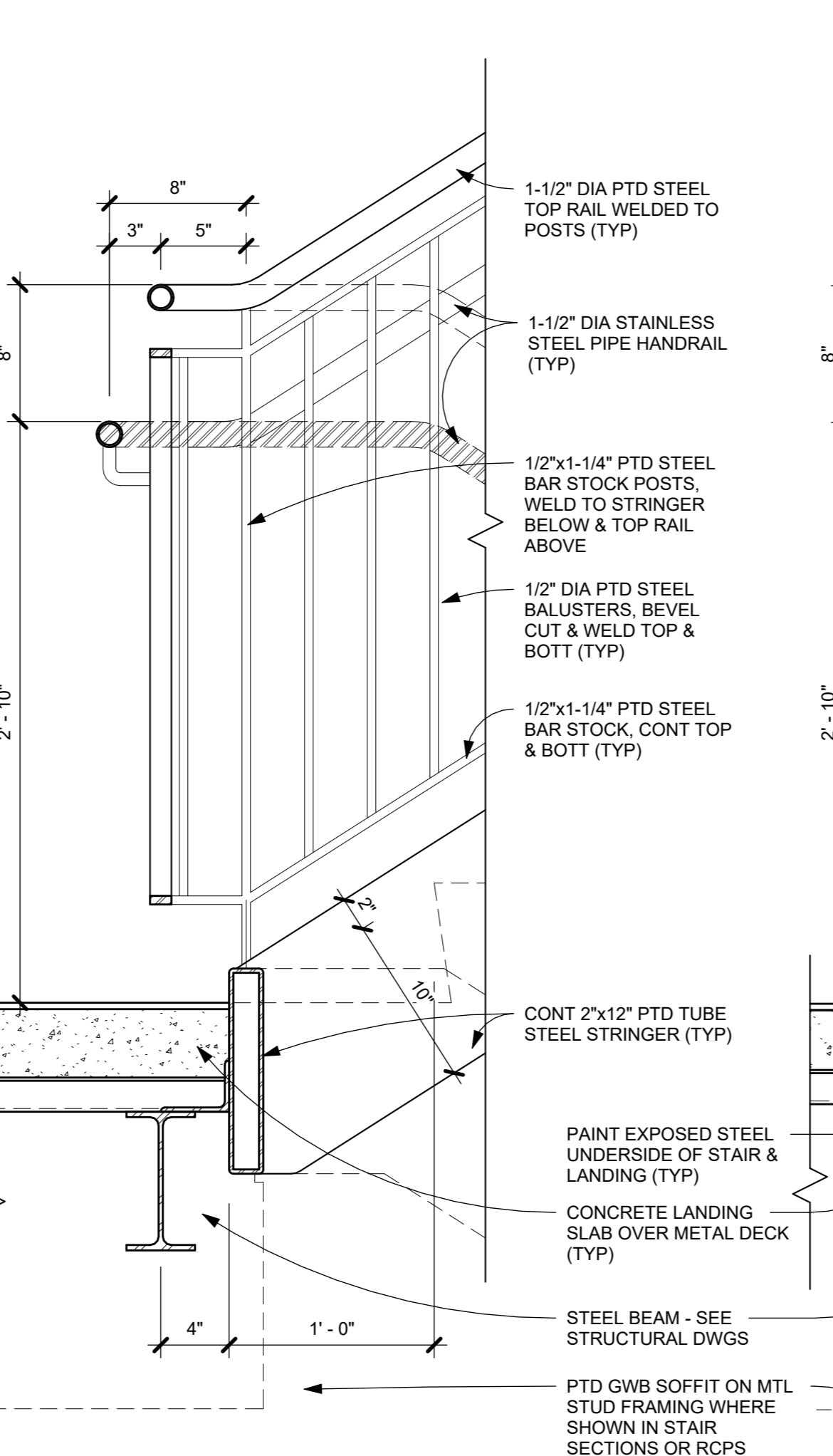
11 TYP DETAIL @ GUARDRAIL MNTD HANDRAIL
3" = 1'-0"



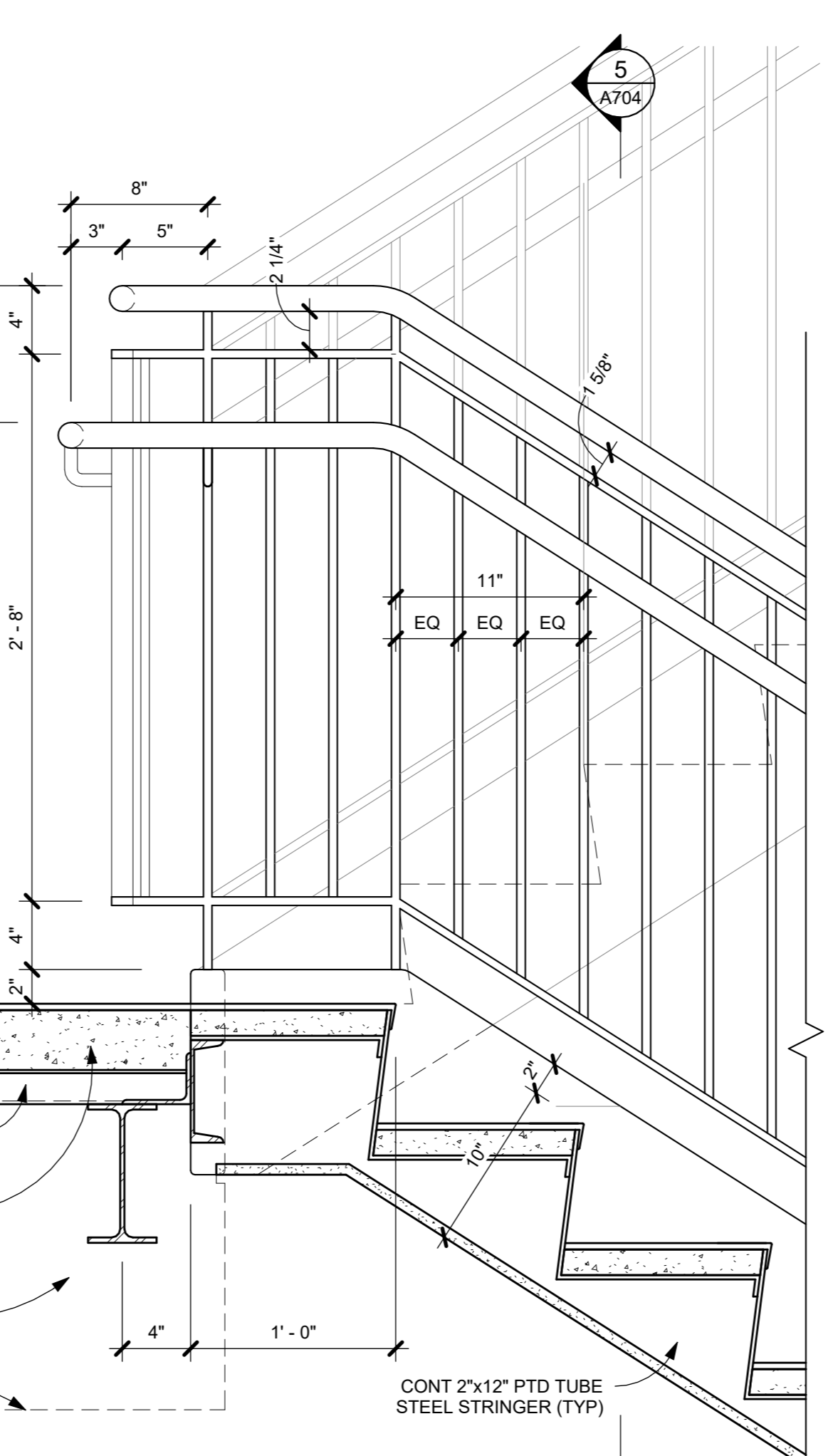
6 LANDING EDGE DETAIL
1 1/2" = 1'-0"



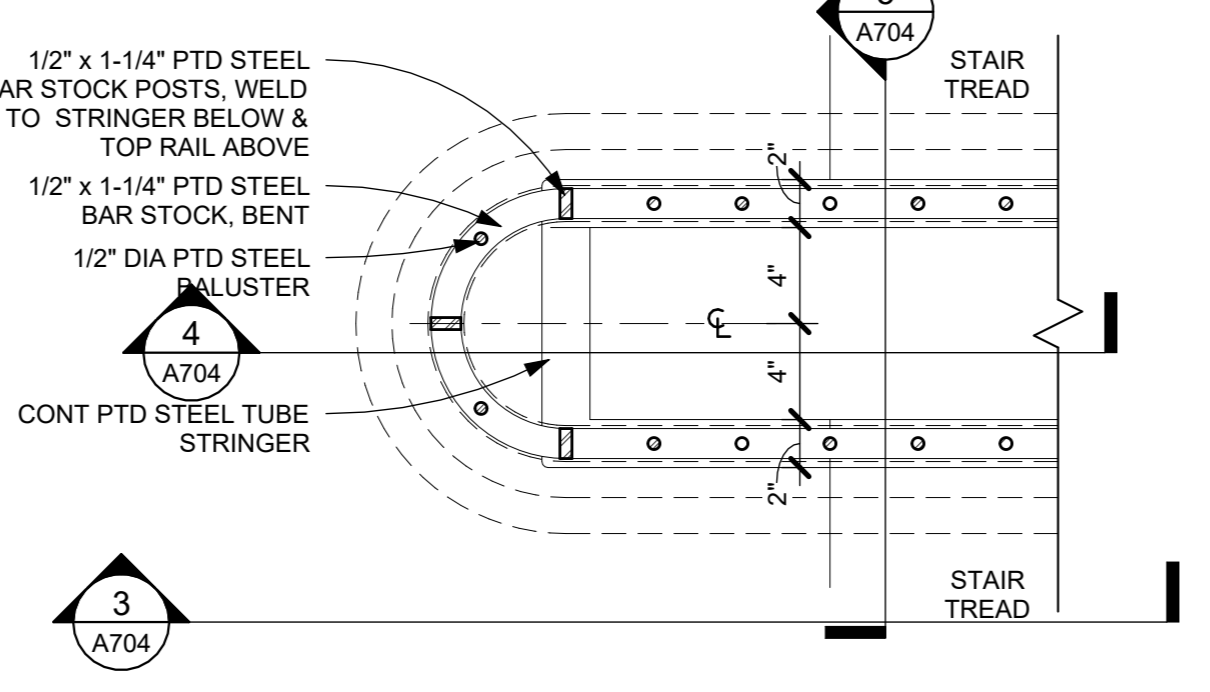
5 LANDING SECTION
1 1/2" = 1'-0"



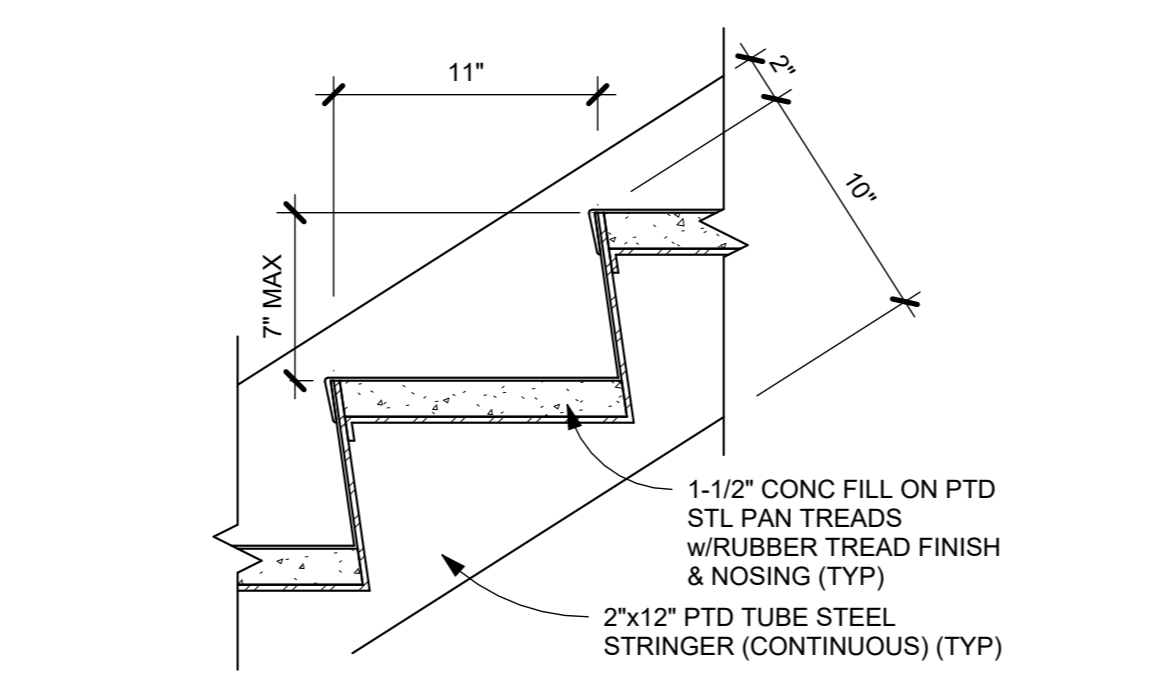
4 STAIR SECTION @ CURB
1 1/2" = 1'-0"



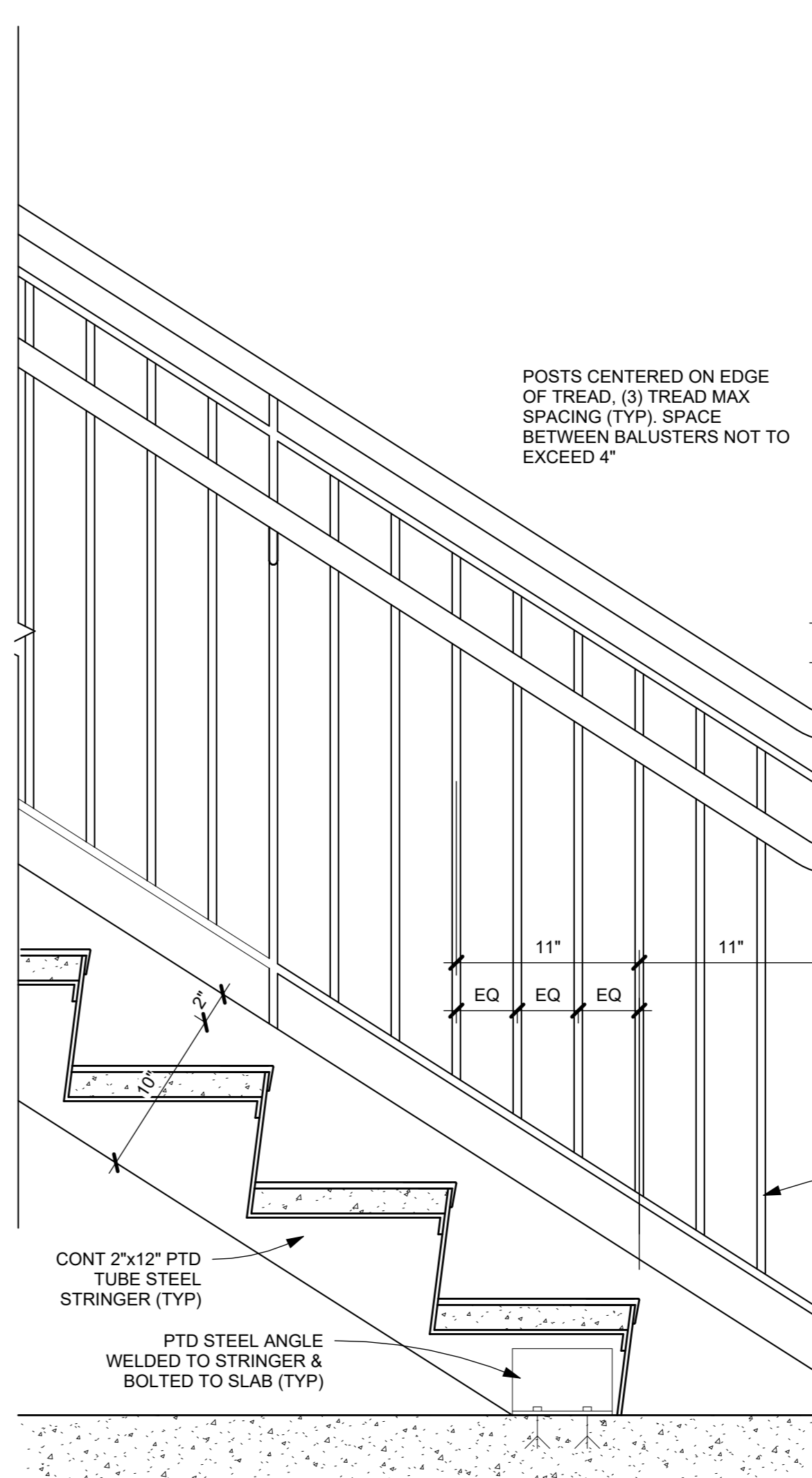
3 STAIR SECTION @ LANDING
1 1/2" = 1'-0"



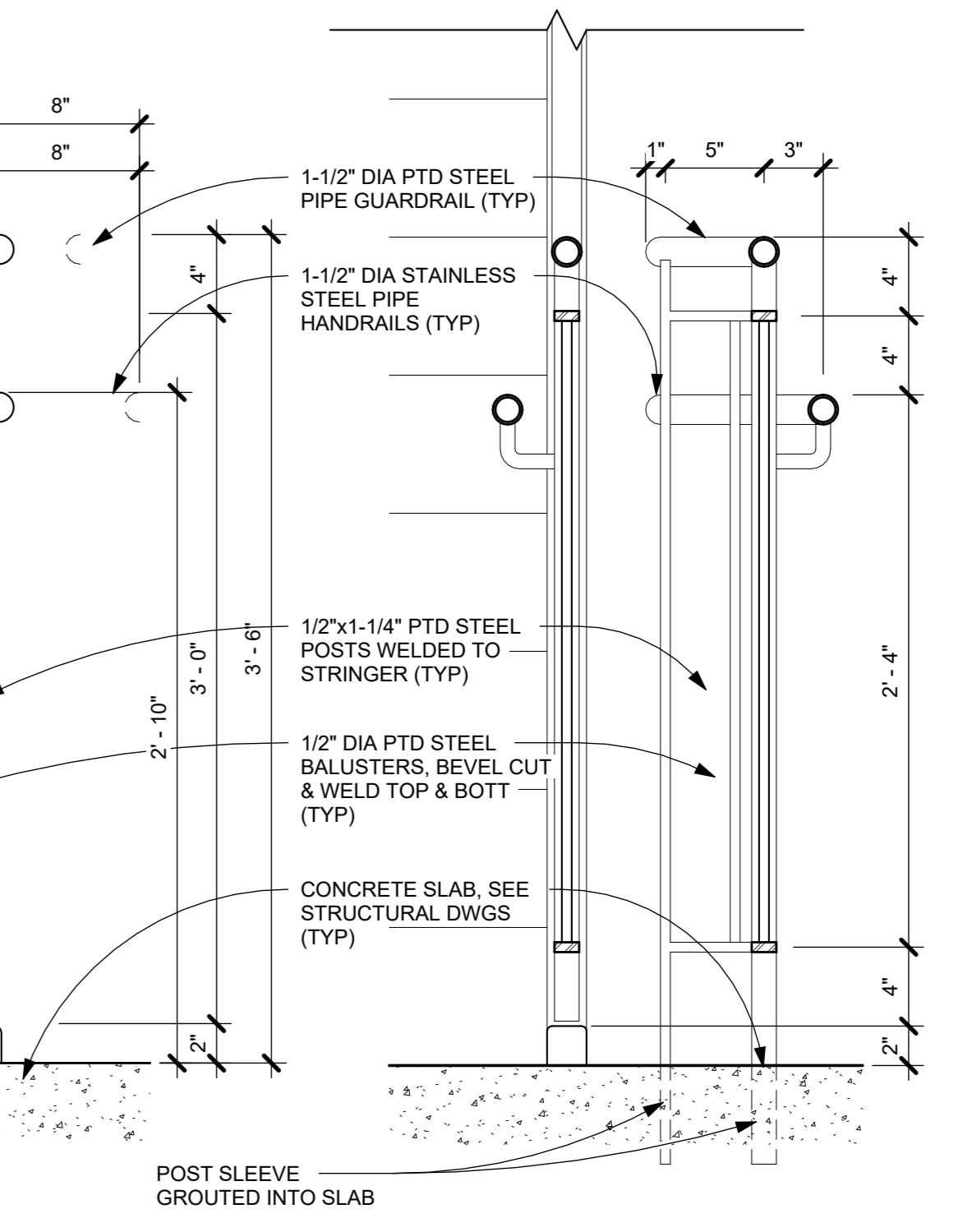
8 PLAN SECTION THRU RAIL
1 1/2" = 1'-0"



7 TYP STEEL PAN STAIR TREAD
1 1/2" = 1'-0"



2 STAIR SECTION @ BOTTOM
1 1/2" = 1'-0"



1 SECTION THRU END RAILING
1 1/2" = 1'-0"

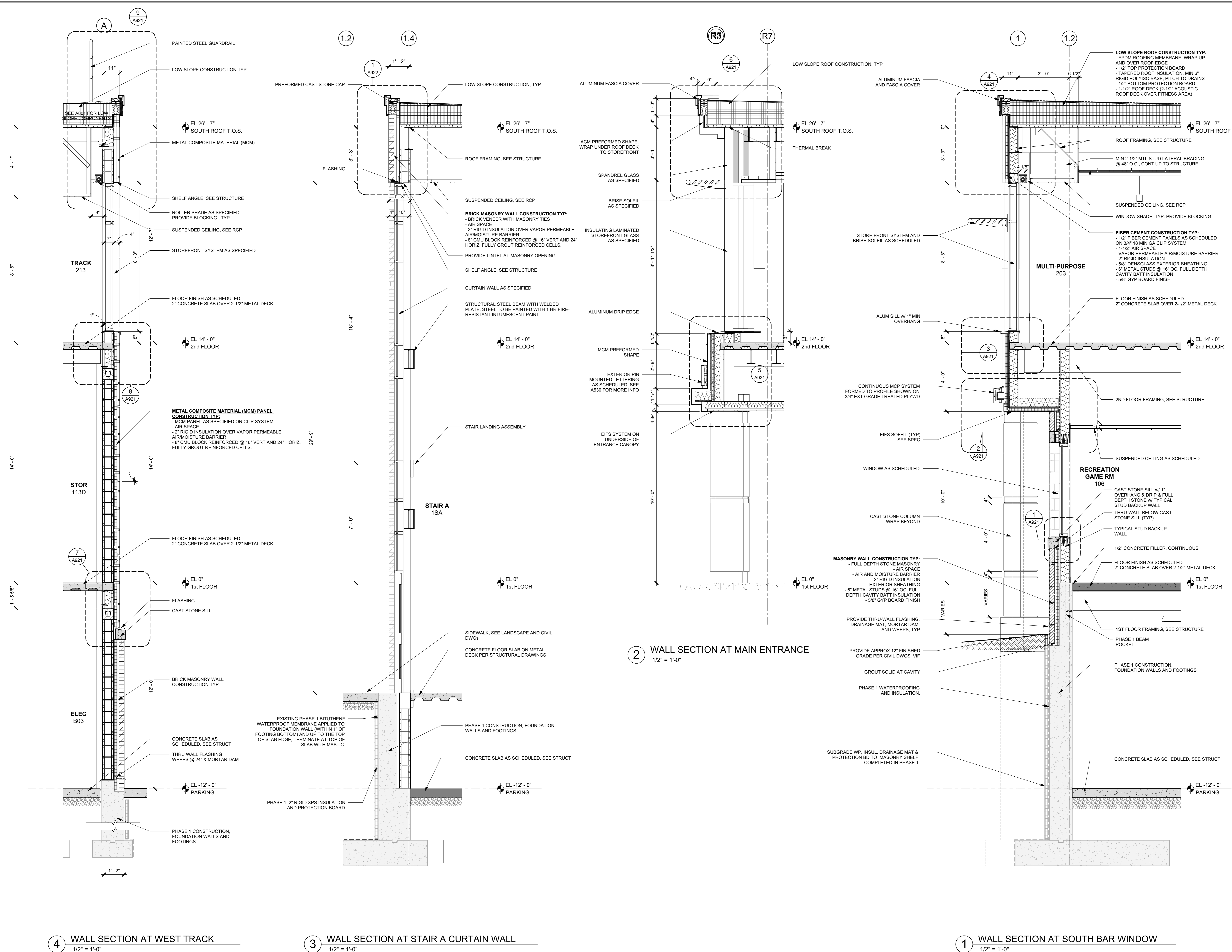
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Professional Seal	
Job No.	Date
2020-1005	02/21/24
Scale	Drawn / Checked
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Sheet Number	
A704	



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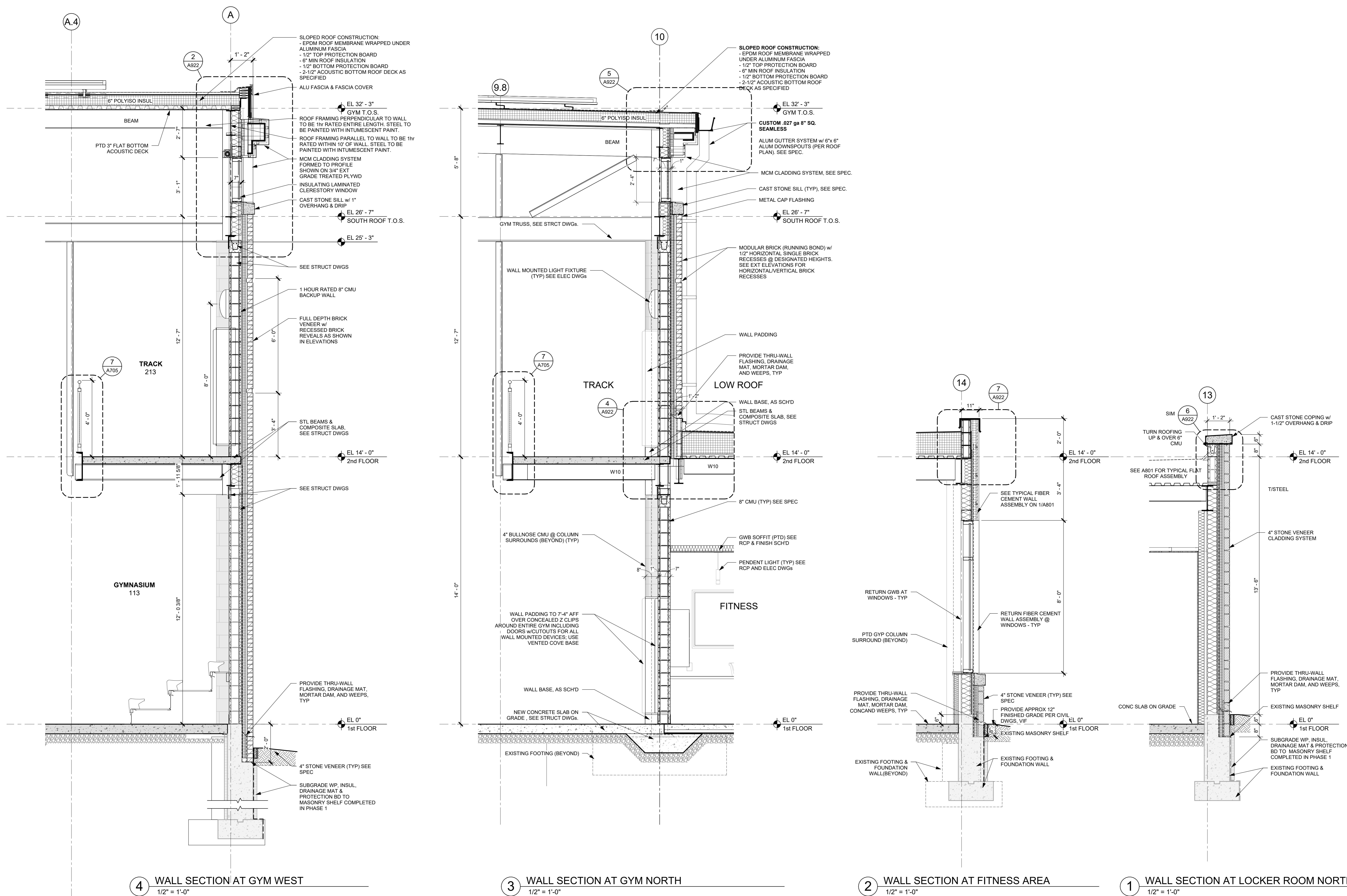
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Sheet Title

Job No.	Date
2020-1005	12/24/23

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AS NOTED		

Sheet Number



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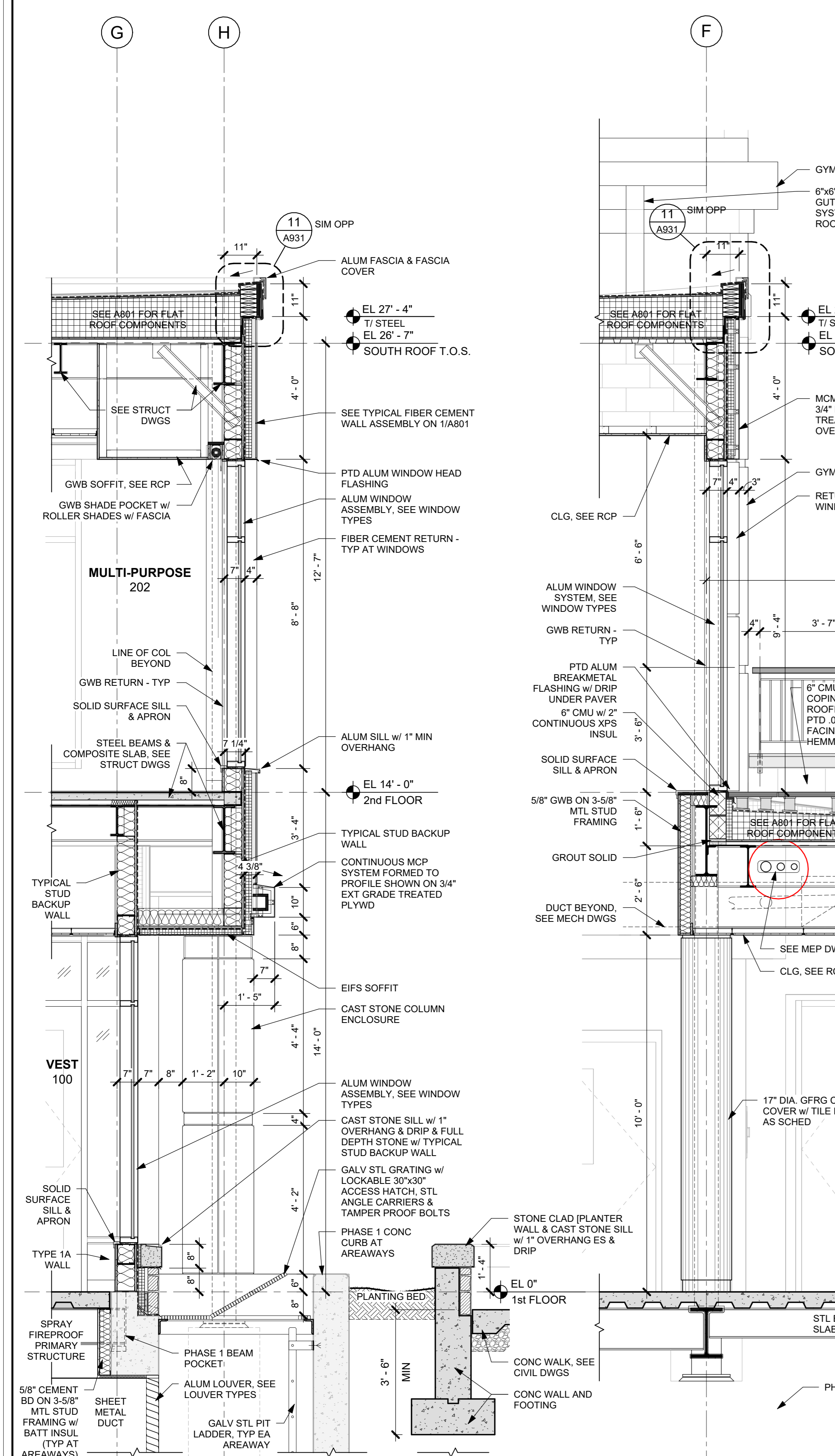
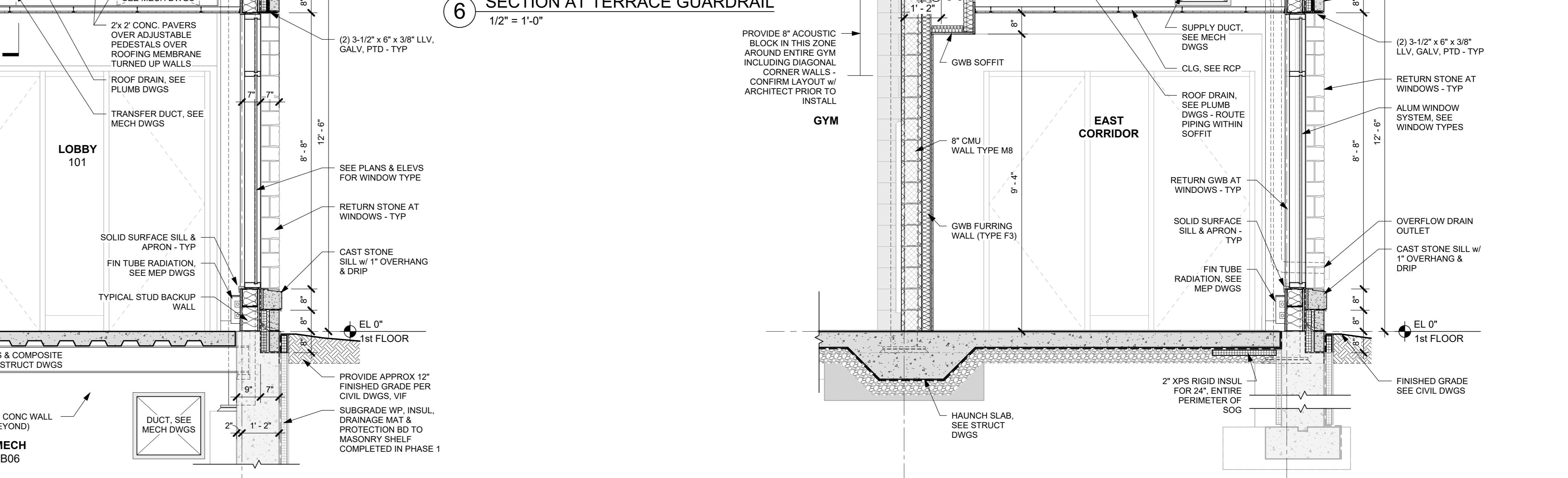
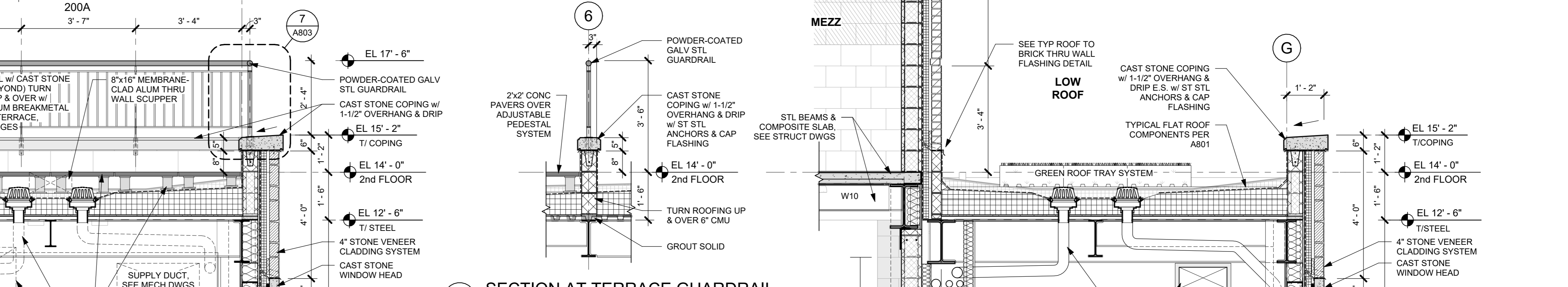
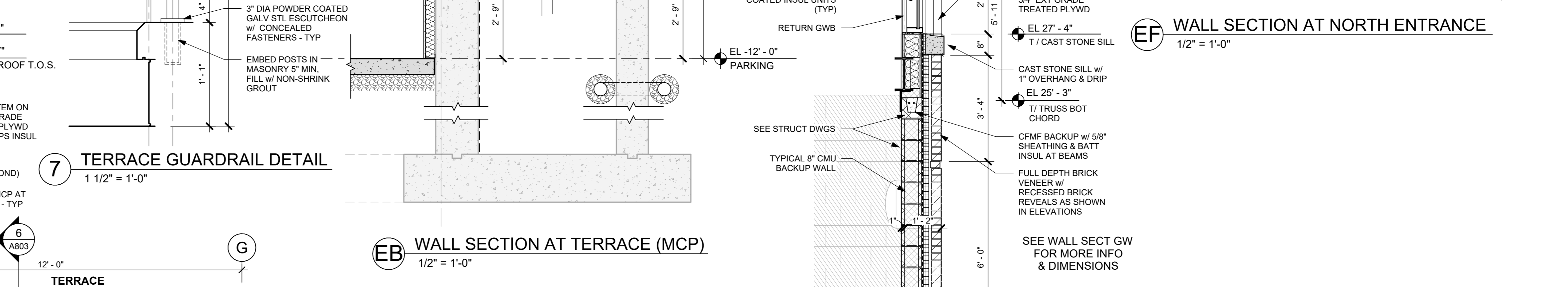
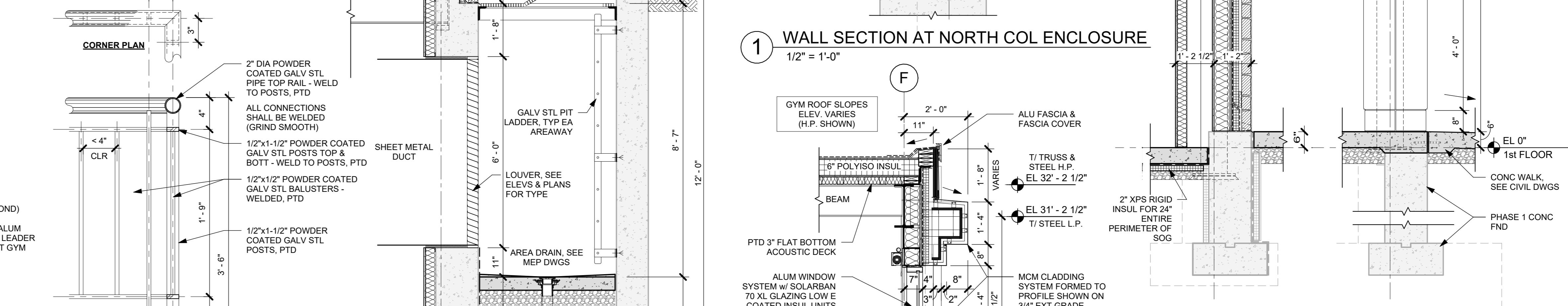
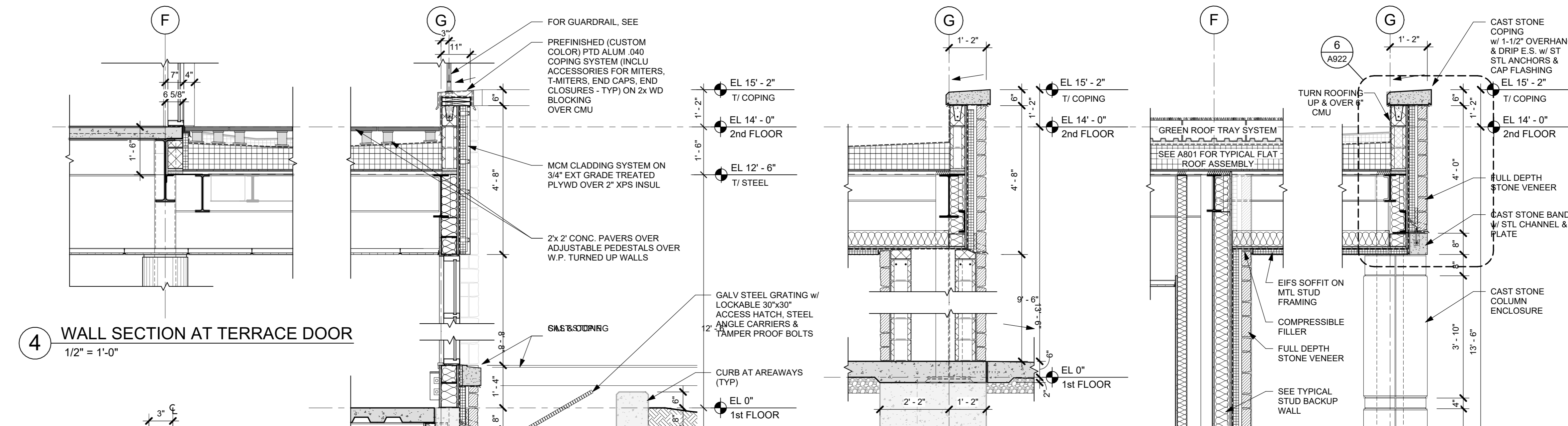
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7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

WALL SECTIONS

Job No. 2020-1005	Date 01/02/24
Scale AS NOTED	Drawn / Checked Author / Checker
Sheet Number	



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1	03/31/2020	50% DESIGN DEVELOPMENT

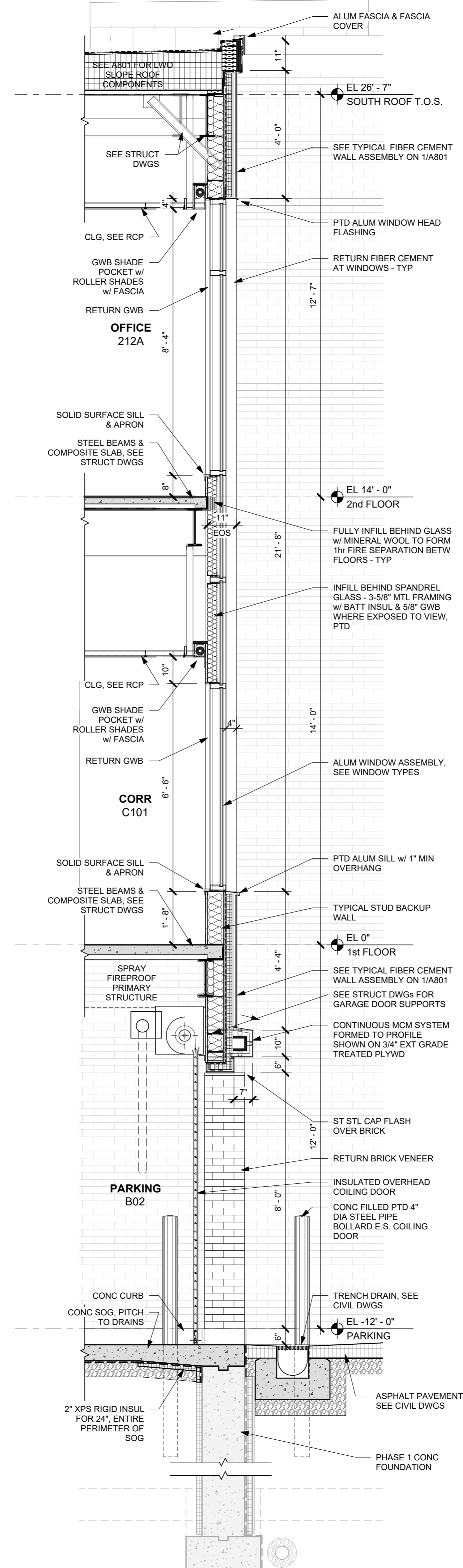
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WALL SECTIONS

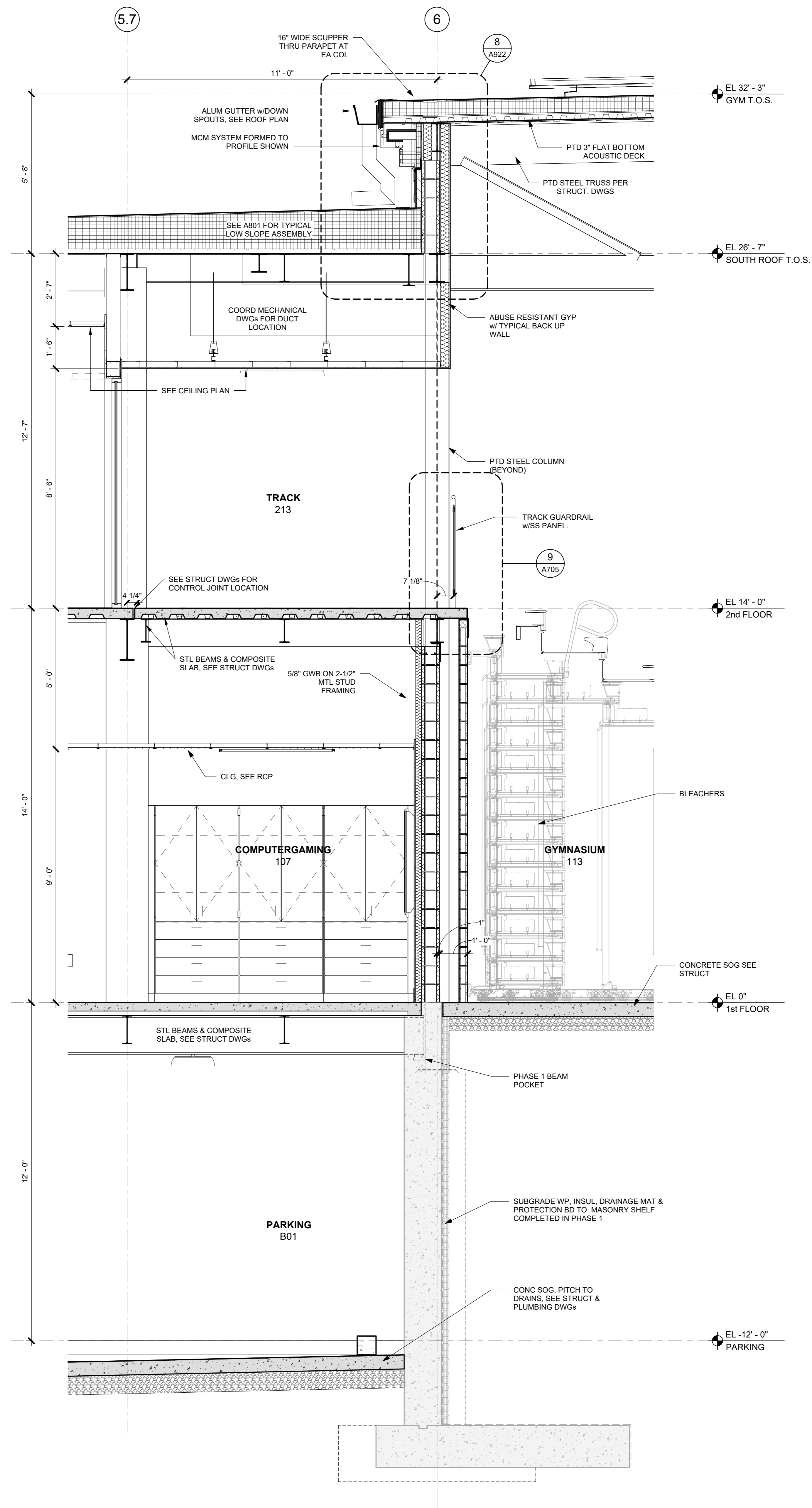
Job No.	Date
2020-1005	02/02/2024

Scale	Drawn / Checked
AS NOTED	KG+D

Sheet Number **A803**



2 WALL SECTION AT PARKING ENTRY
1/2" = 1'-0"



1 WALL SECTION AT TRACK AND GYMNASIUM NORTH
1/2" = 1'-0"

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

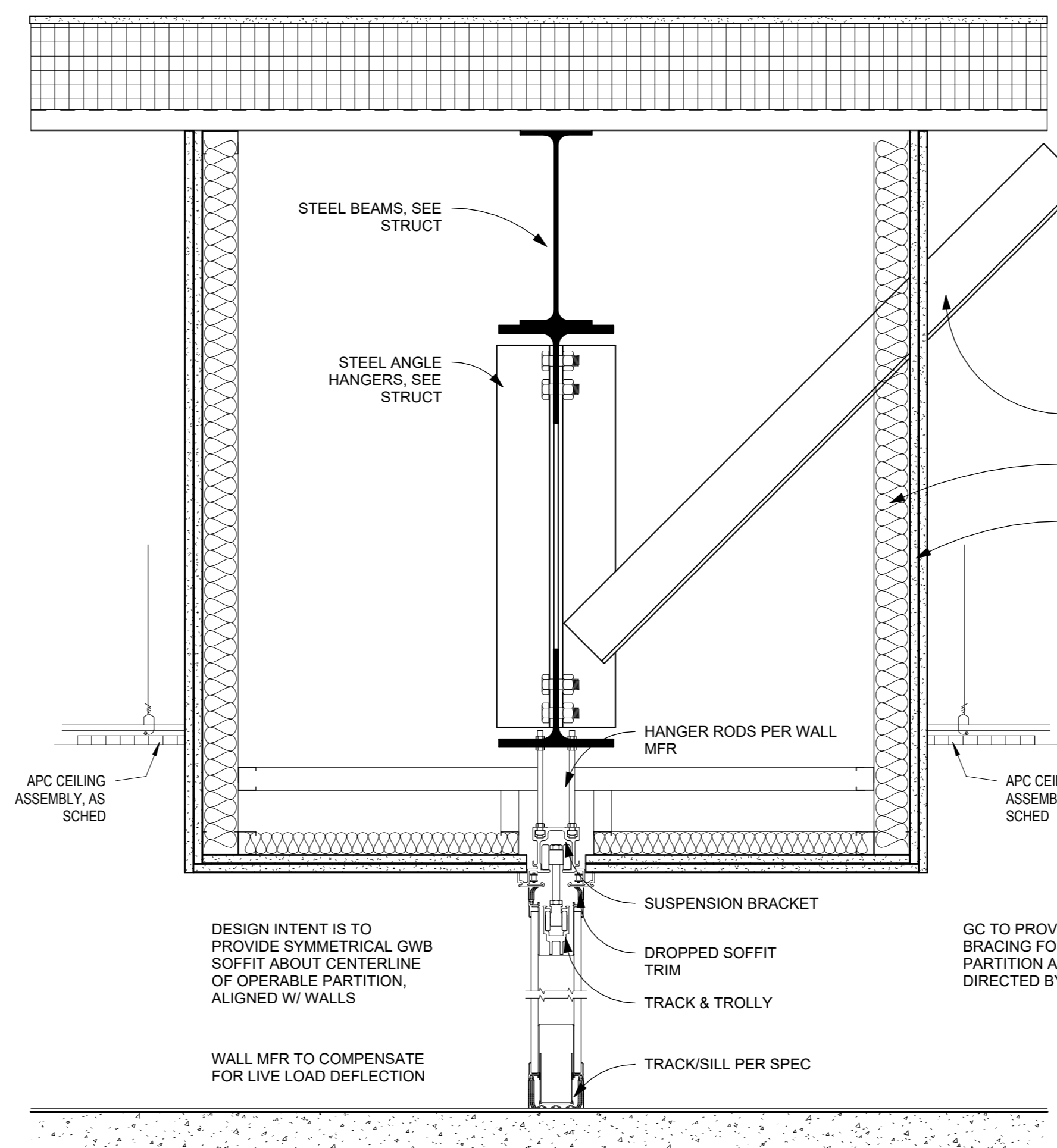
WALL SECTIONS

Job No.	Date
2020-1005	01/22/24

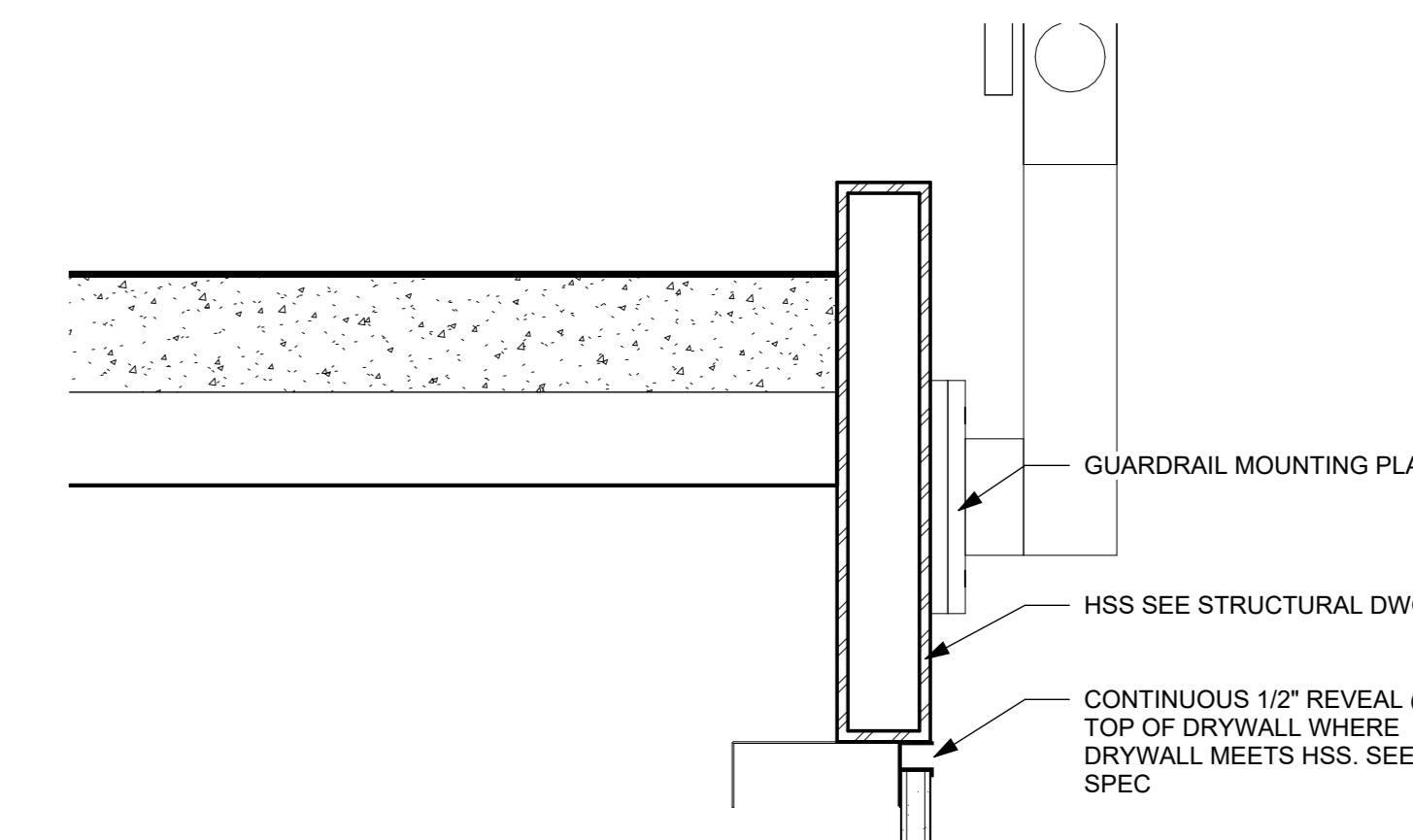
Scale	Drawn / Checked
AS NOTED	Author / Checker

Sheet Number

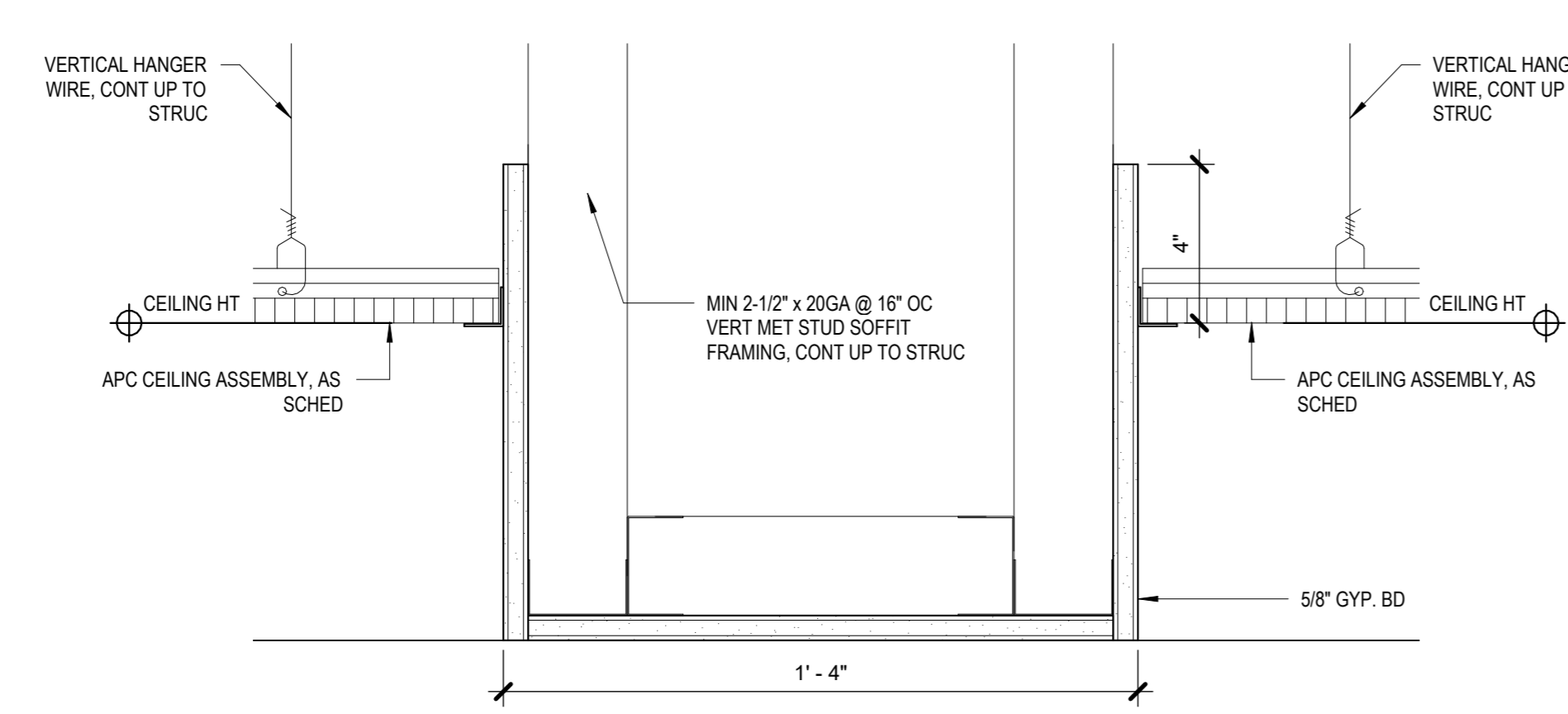
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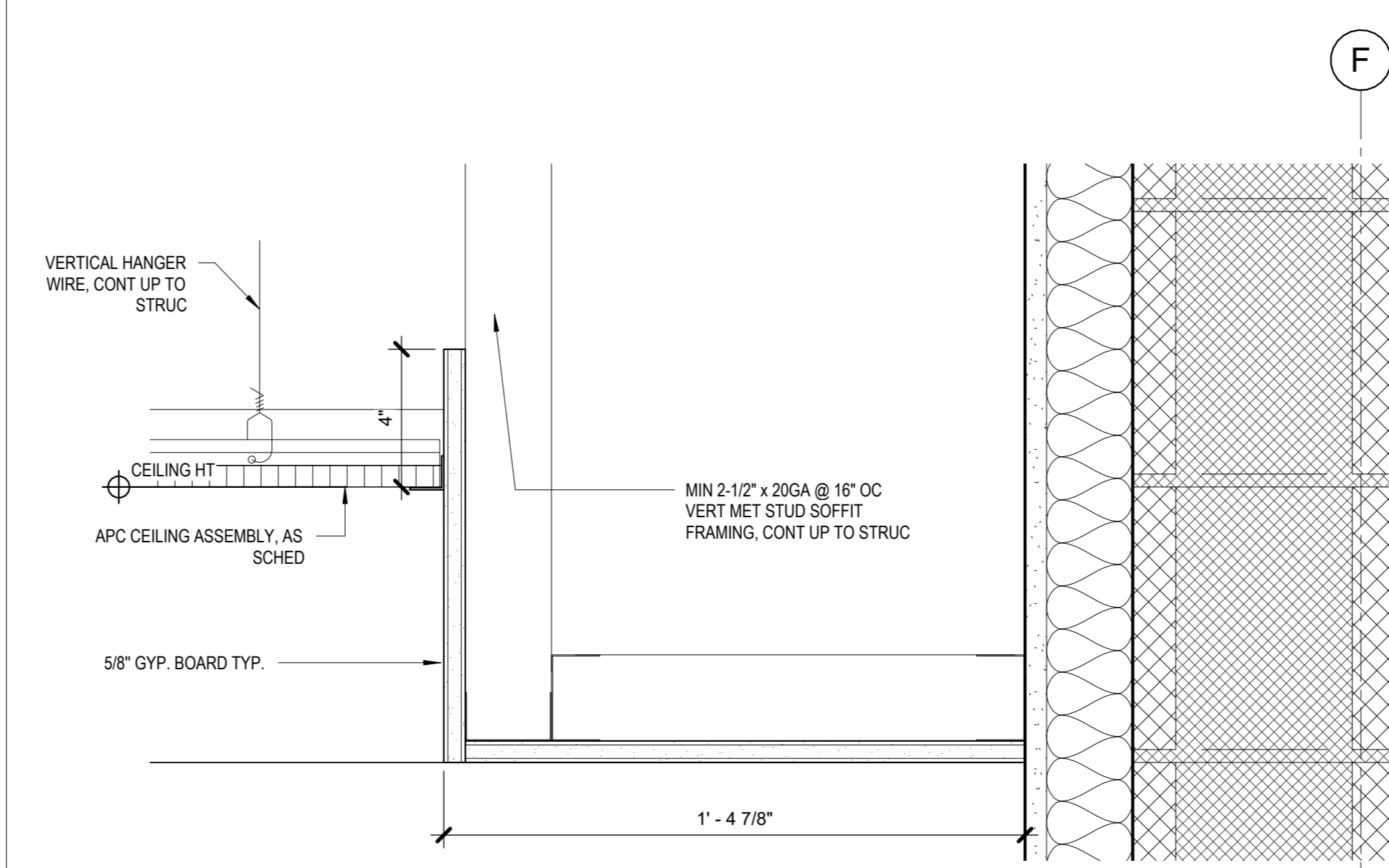
15 OPERABLE PARTITION
1 1/2" = 1'-0"



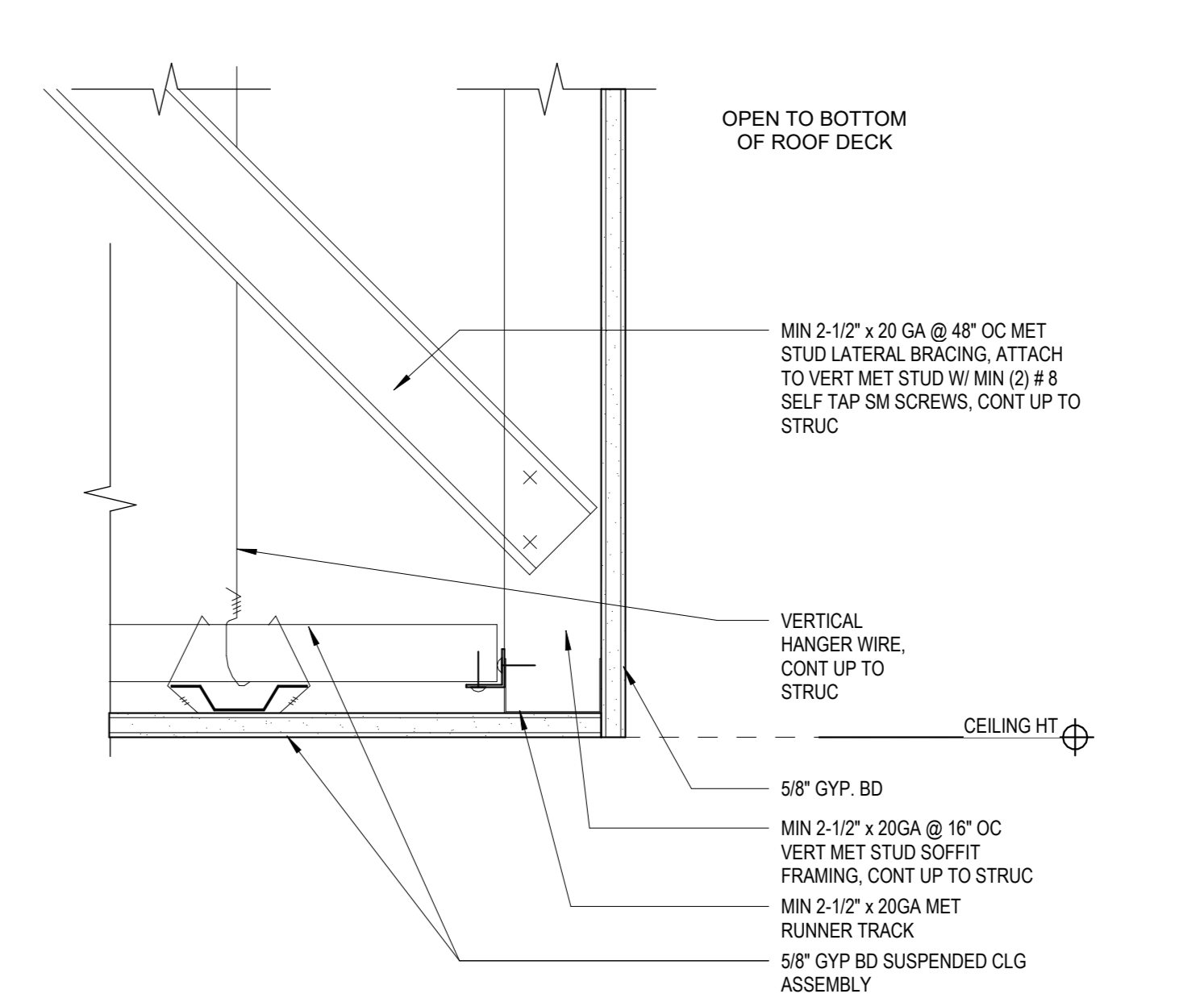
12 CEILING DETAIL @ STAIR C OPENING
3" = 1'-0"



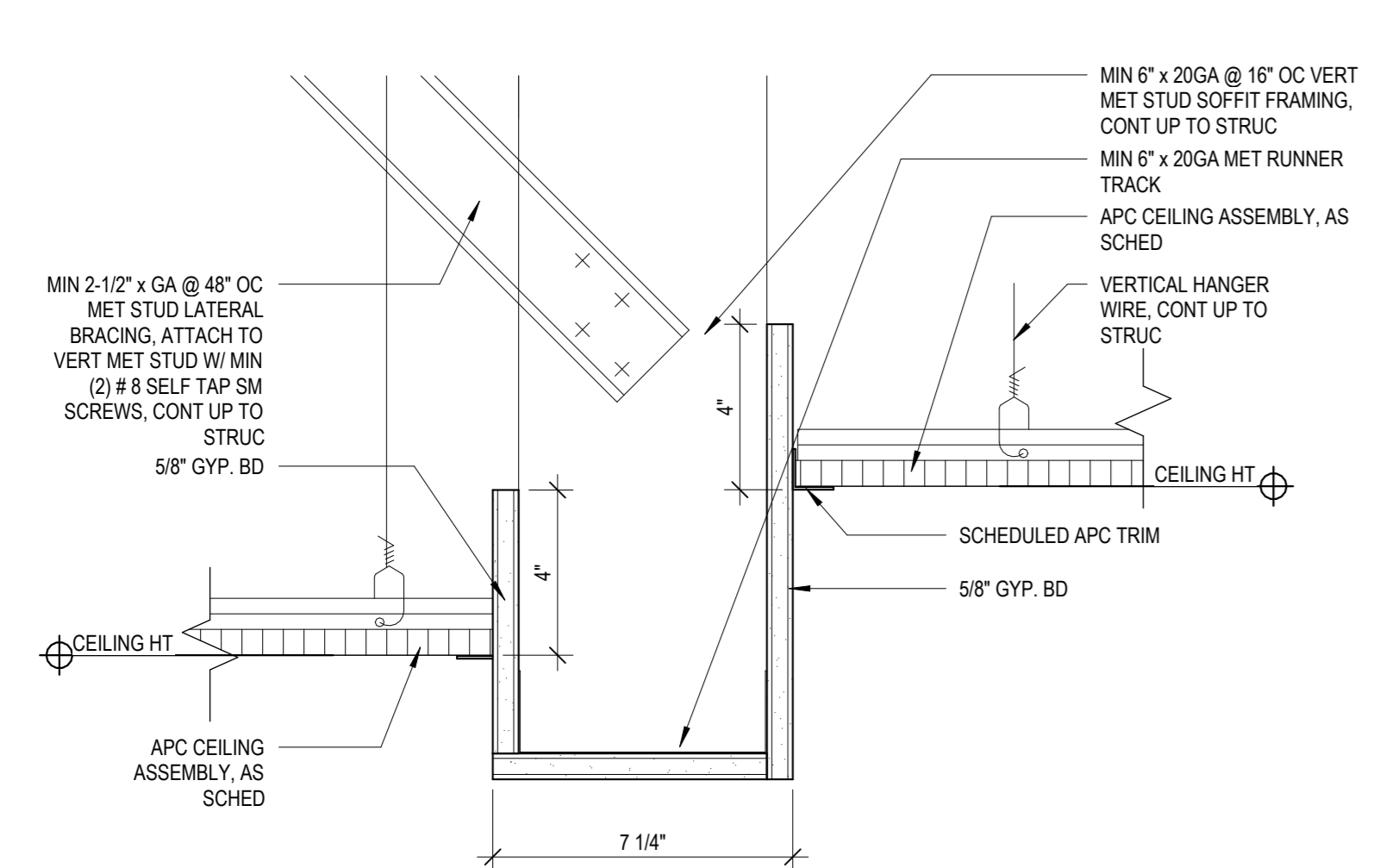
7 CEILING DETAIL @ EAST CORR
3" = 1'-0"



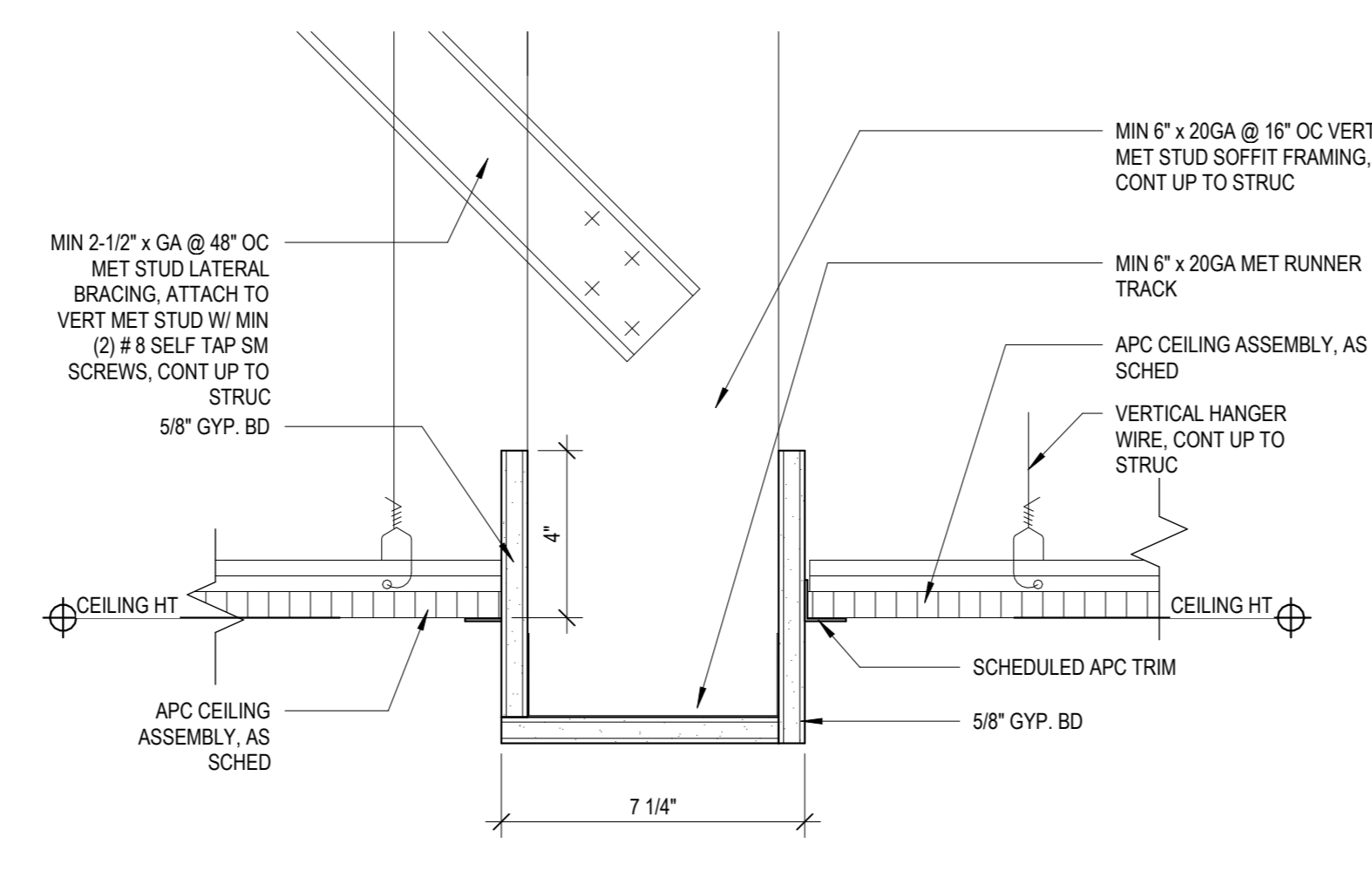
6 CEILING DETAIL @ EAST COR
3" = 1'-0"



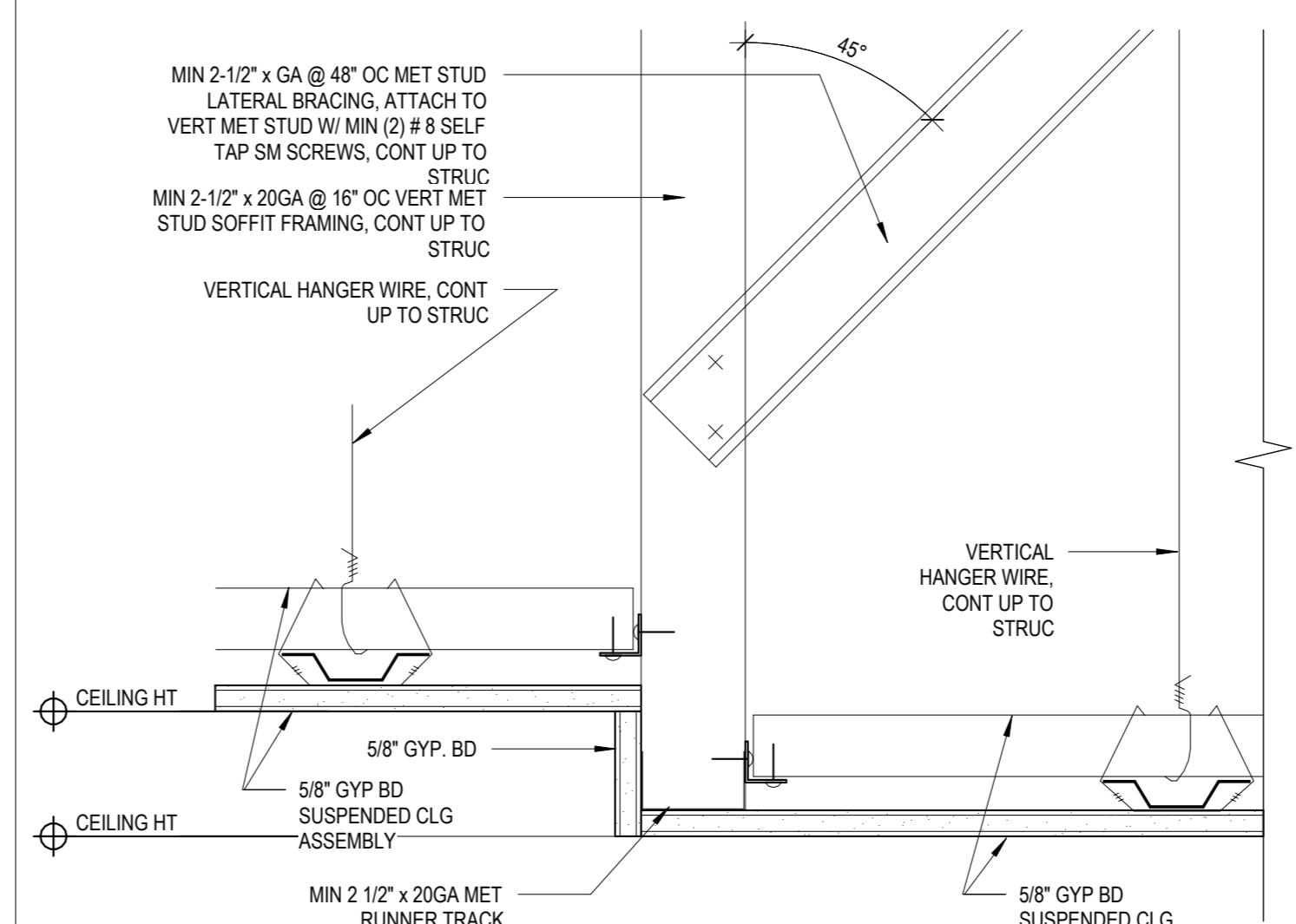
5 CEILING DETAIL @ SOFFIT TO OPEN CEILING
3" = 1'-0"



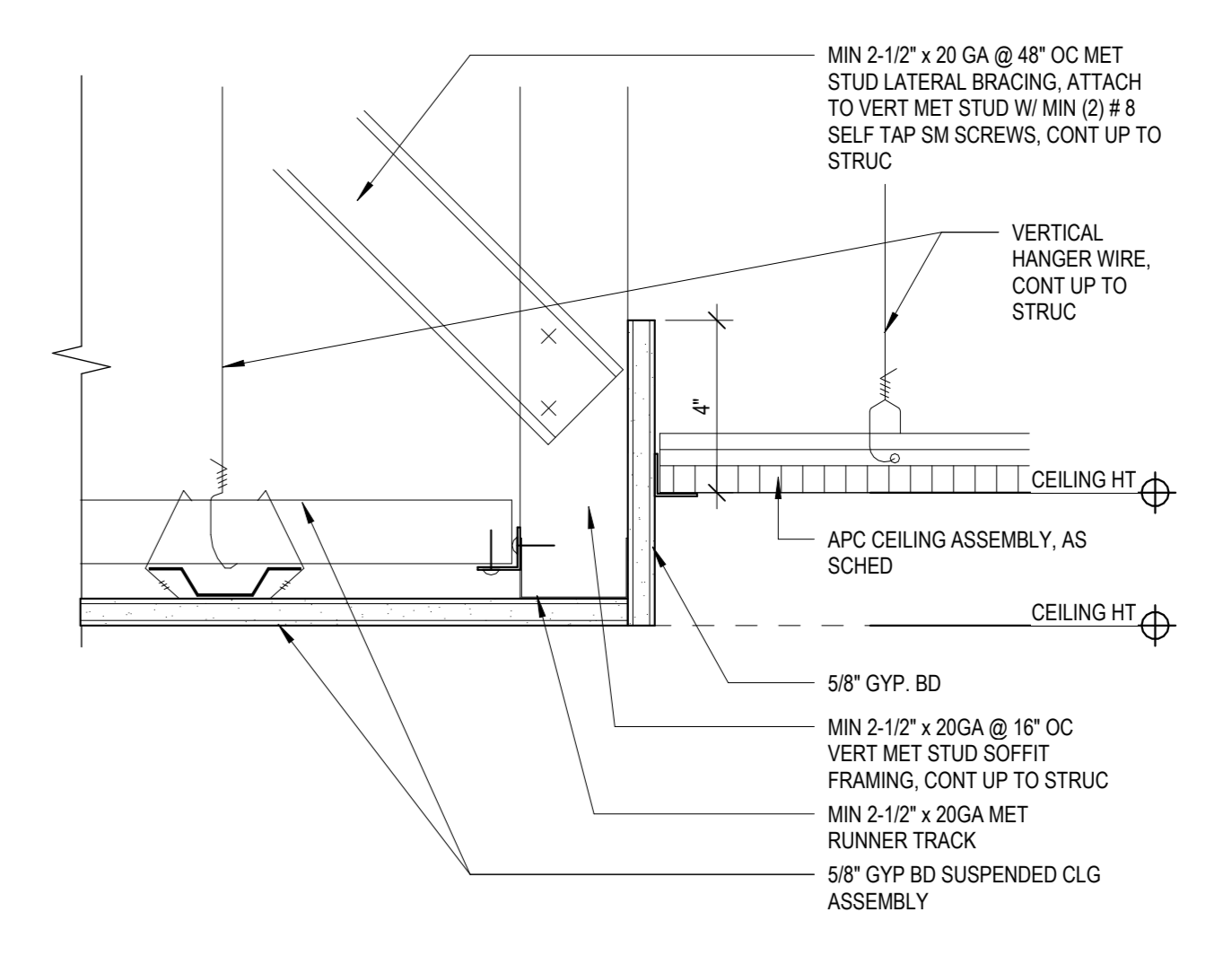
4 CEILING DETAIL AT OPEN OFFICE BULKHEAD
3" = 1'-0"



3 CEILING DETAIL AT BULKHEAD
3" = 1'-0"



2 CEILING DETAIL AT SOFFIT
3" = 1'-0"



1 CEILING DETAIL AT PERIMETER
3" = 1'-0"

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

CEILING DETAILS

Job No.	Date
2020-1005	01/28/24

Scale	Drawn / Checked
AS NOTED	Author / Checker

Sheet Number



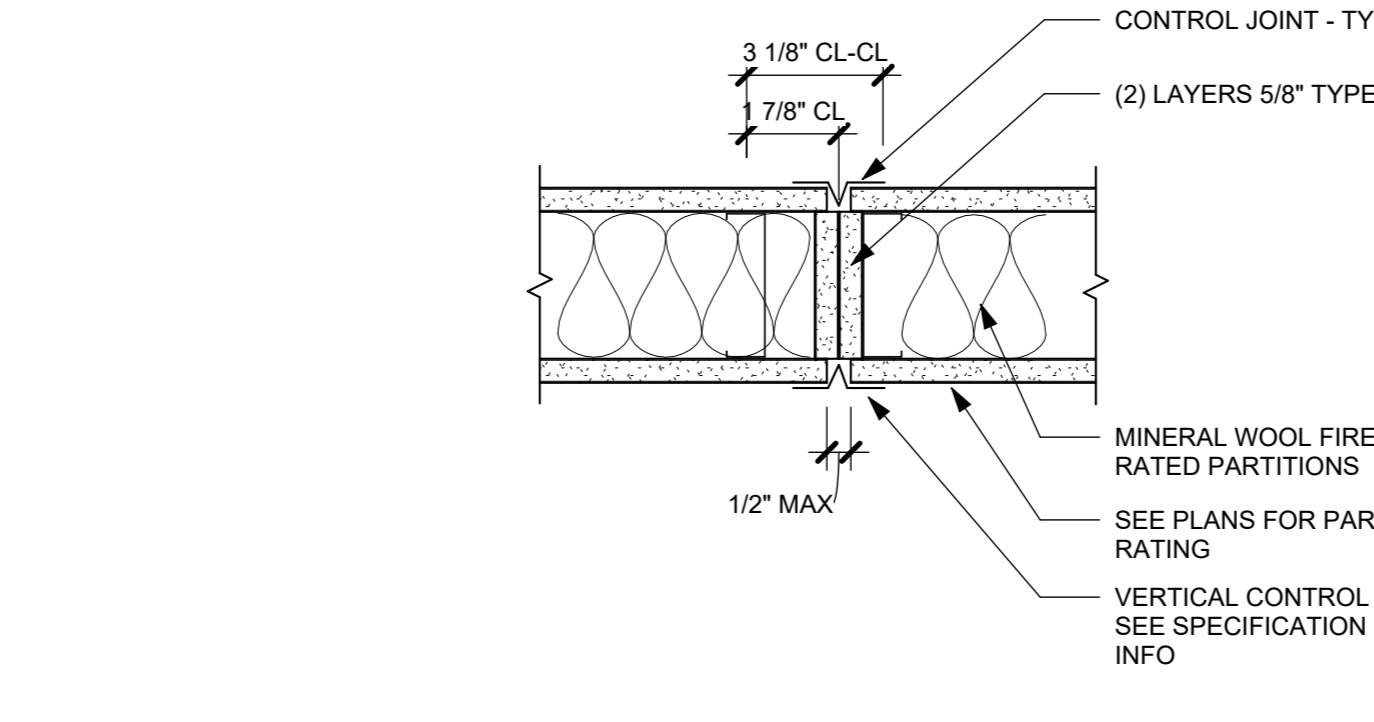
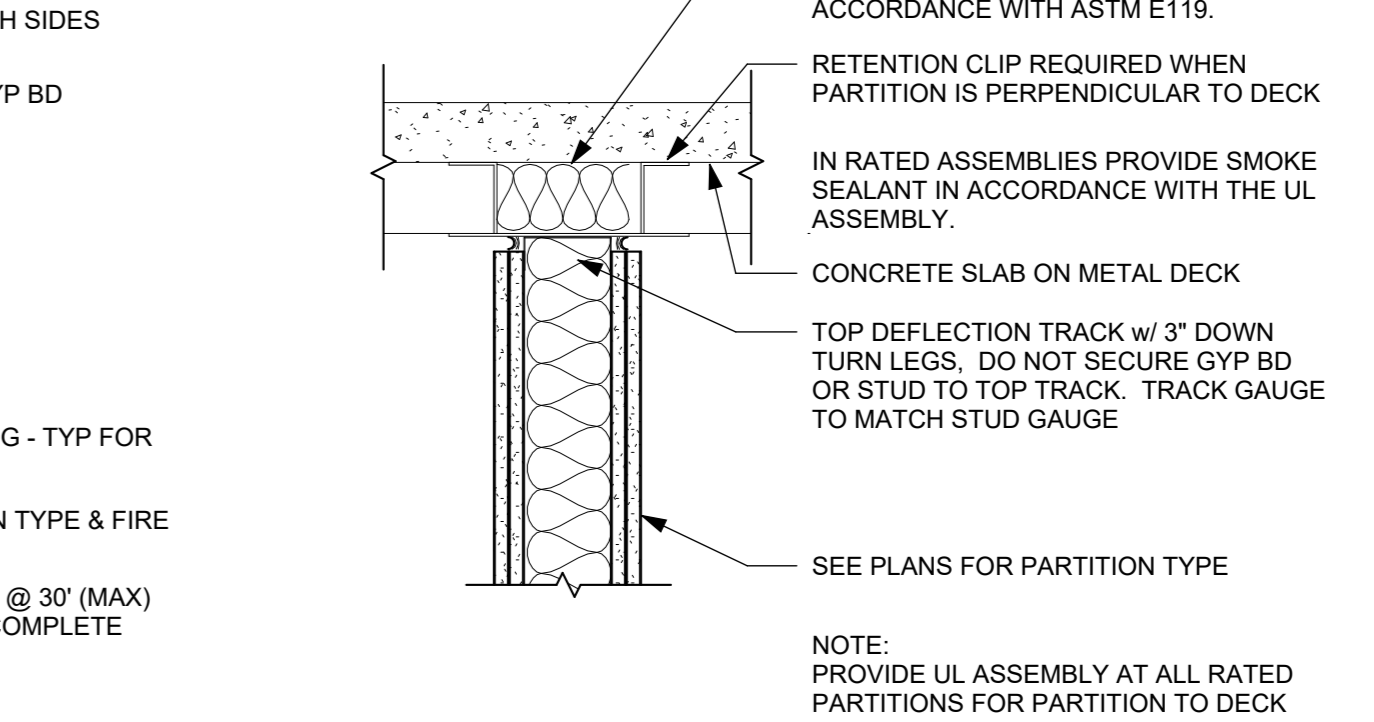
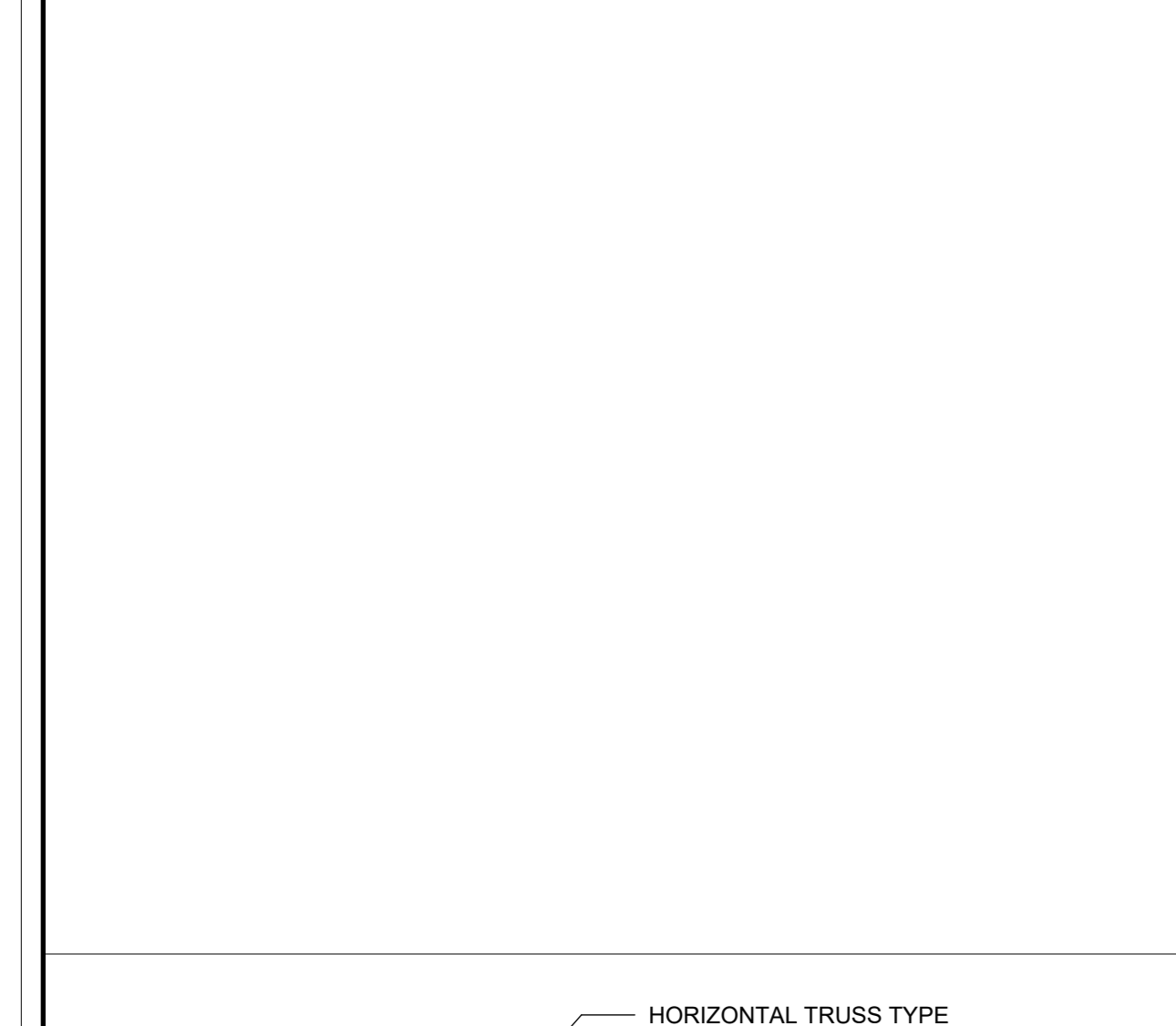
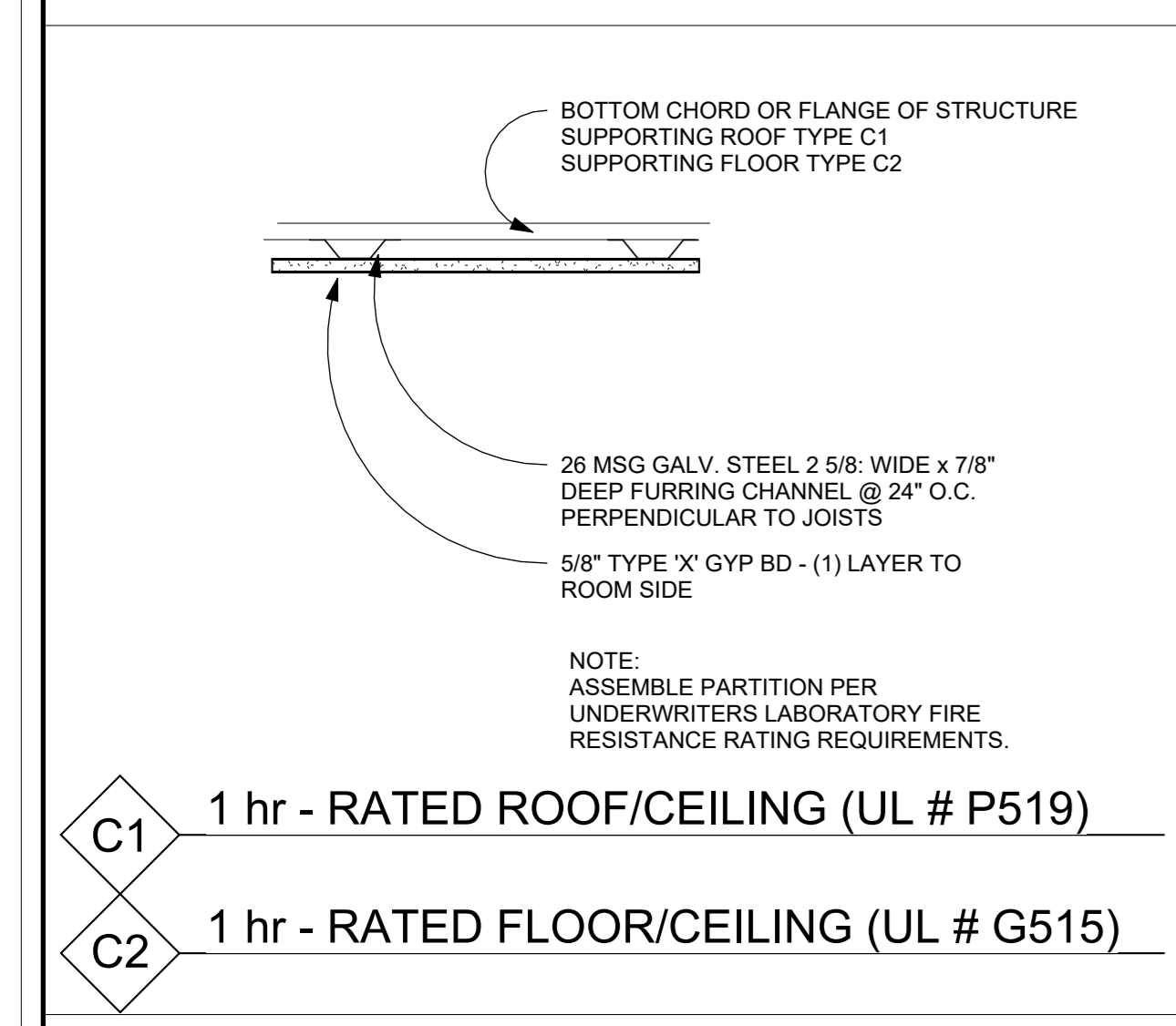
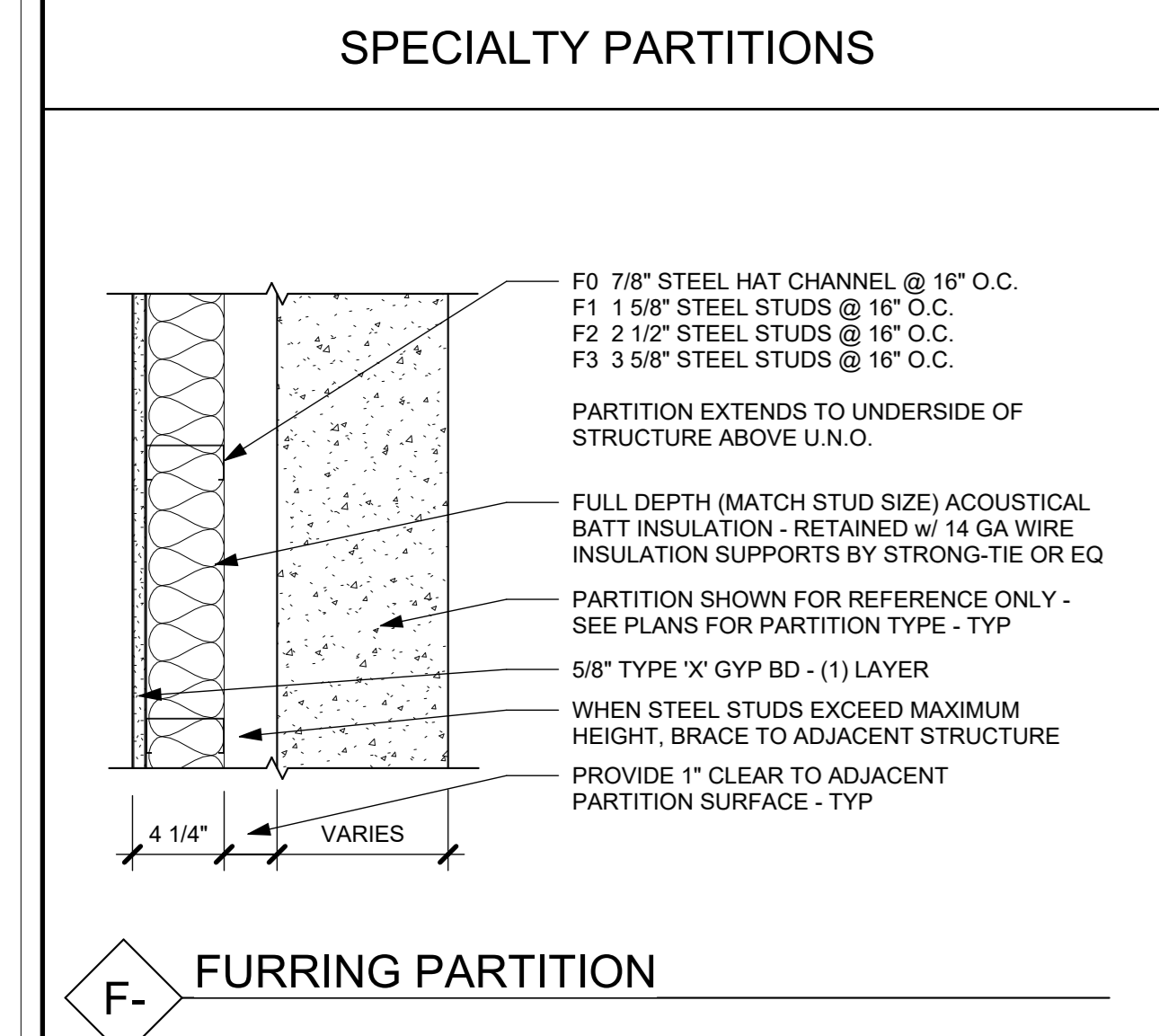
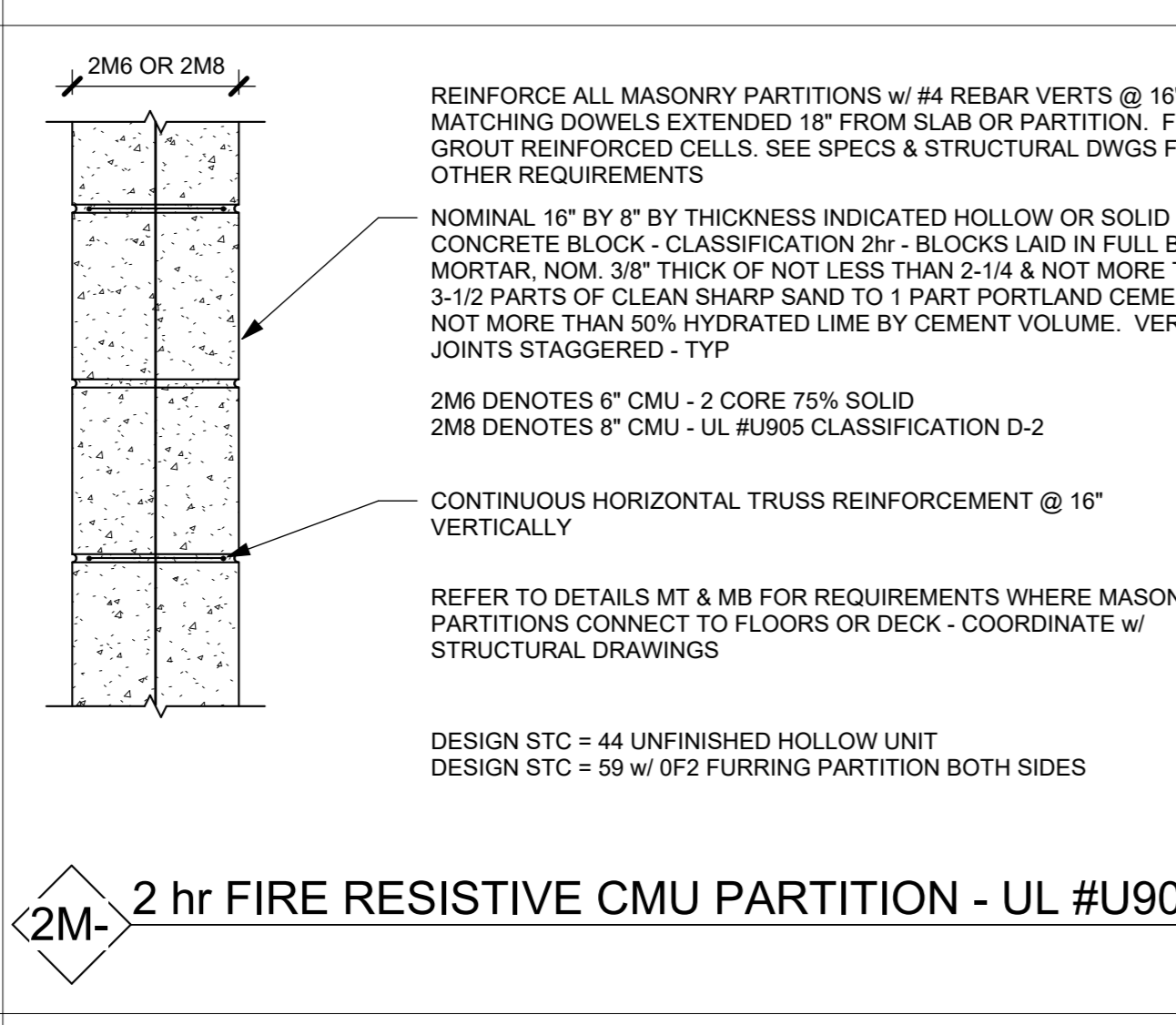
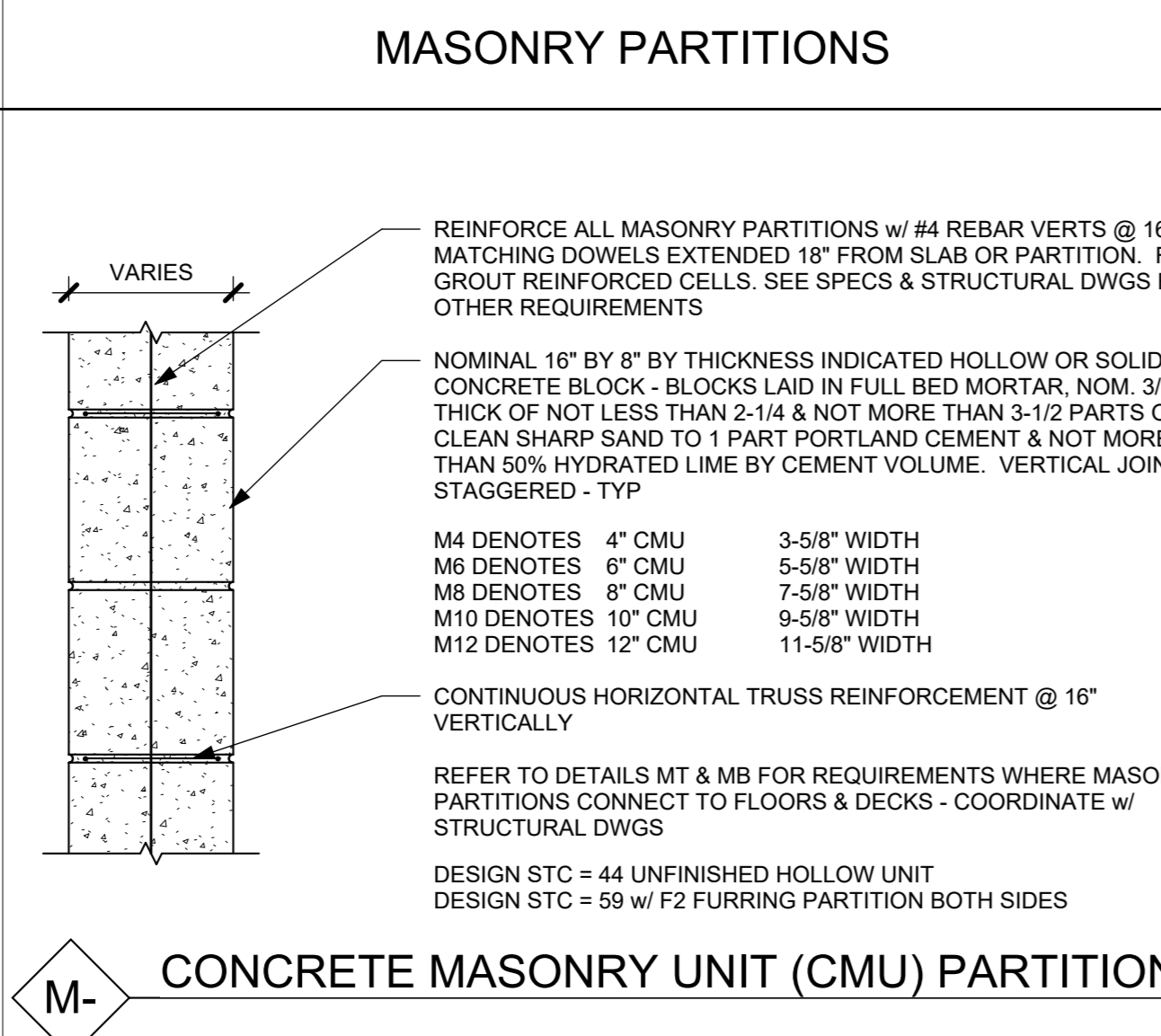
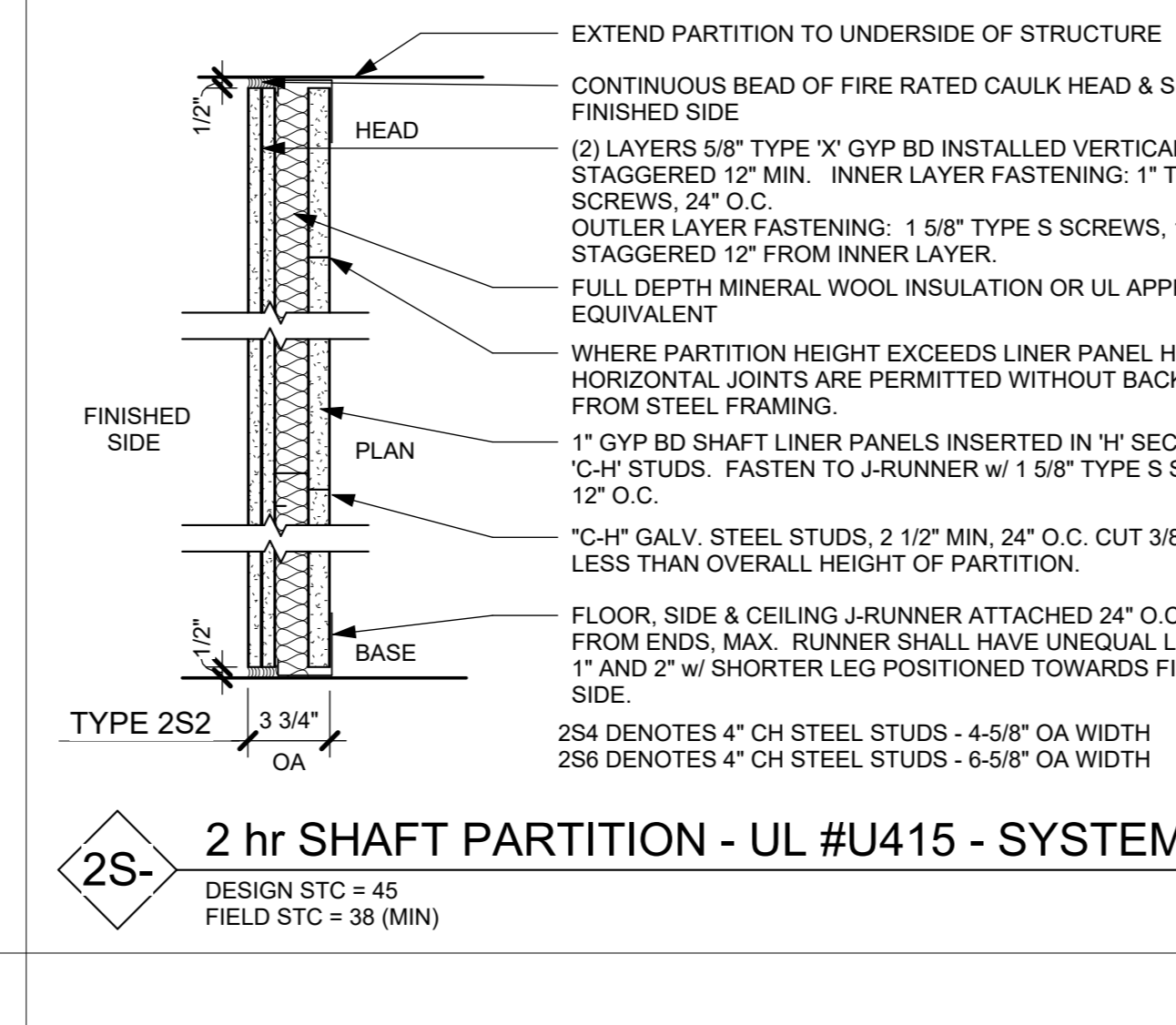
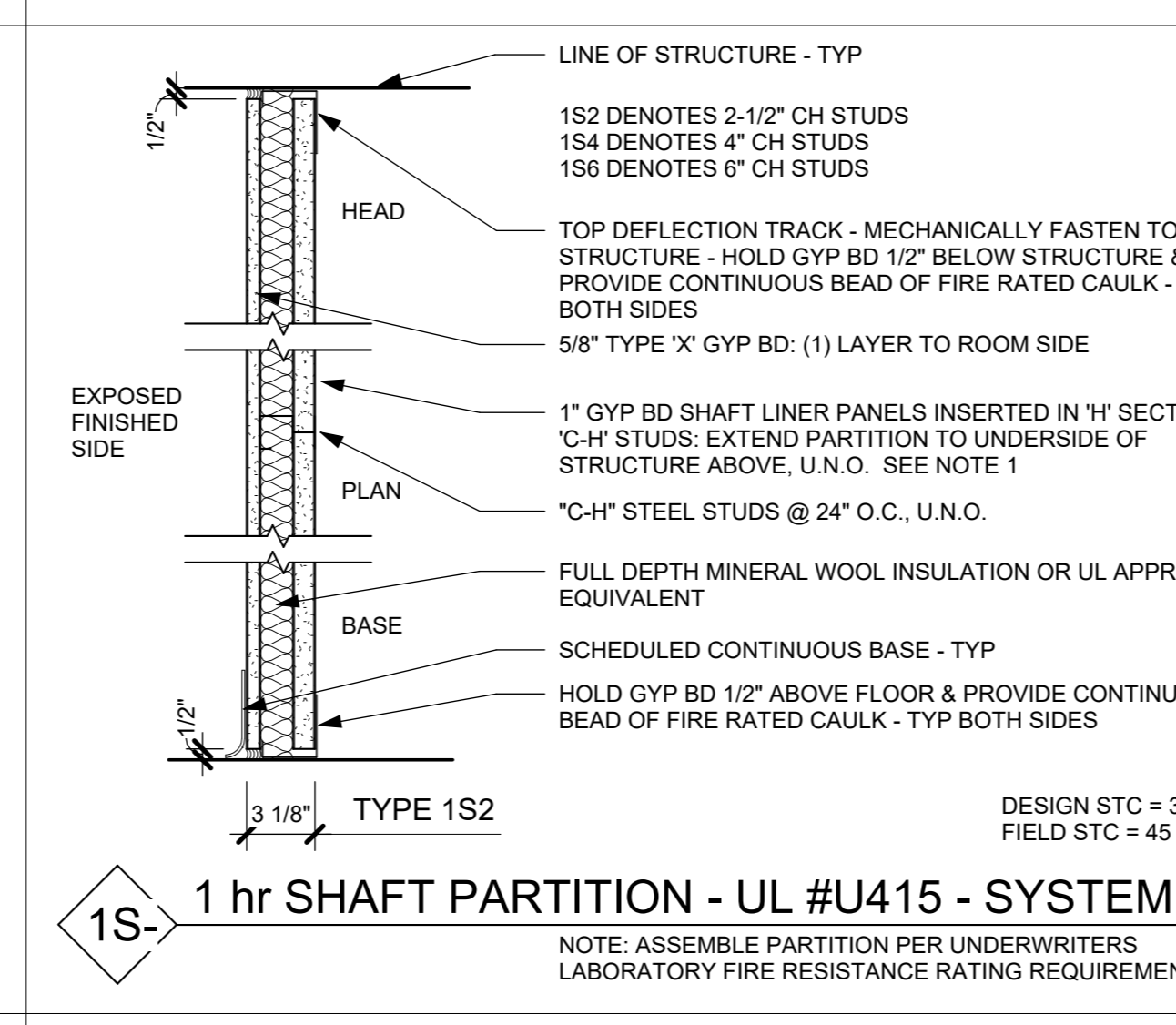
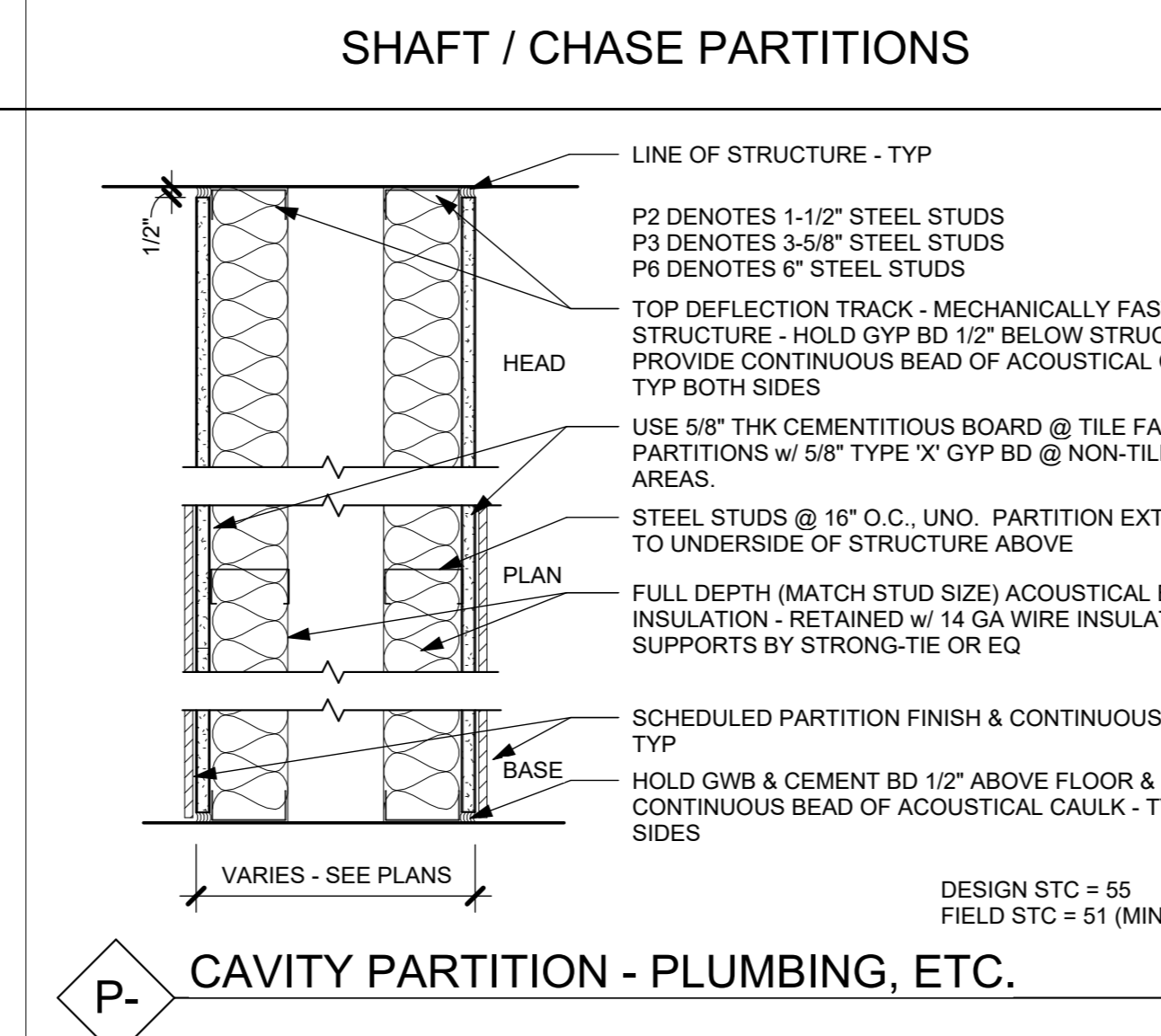
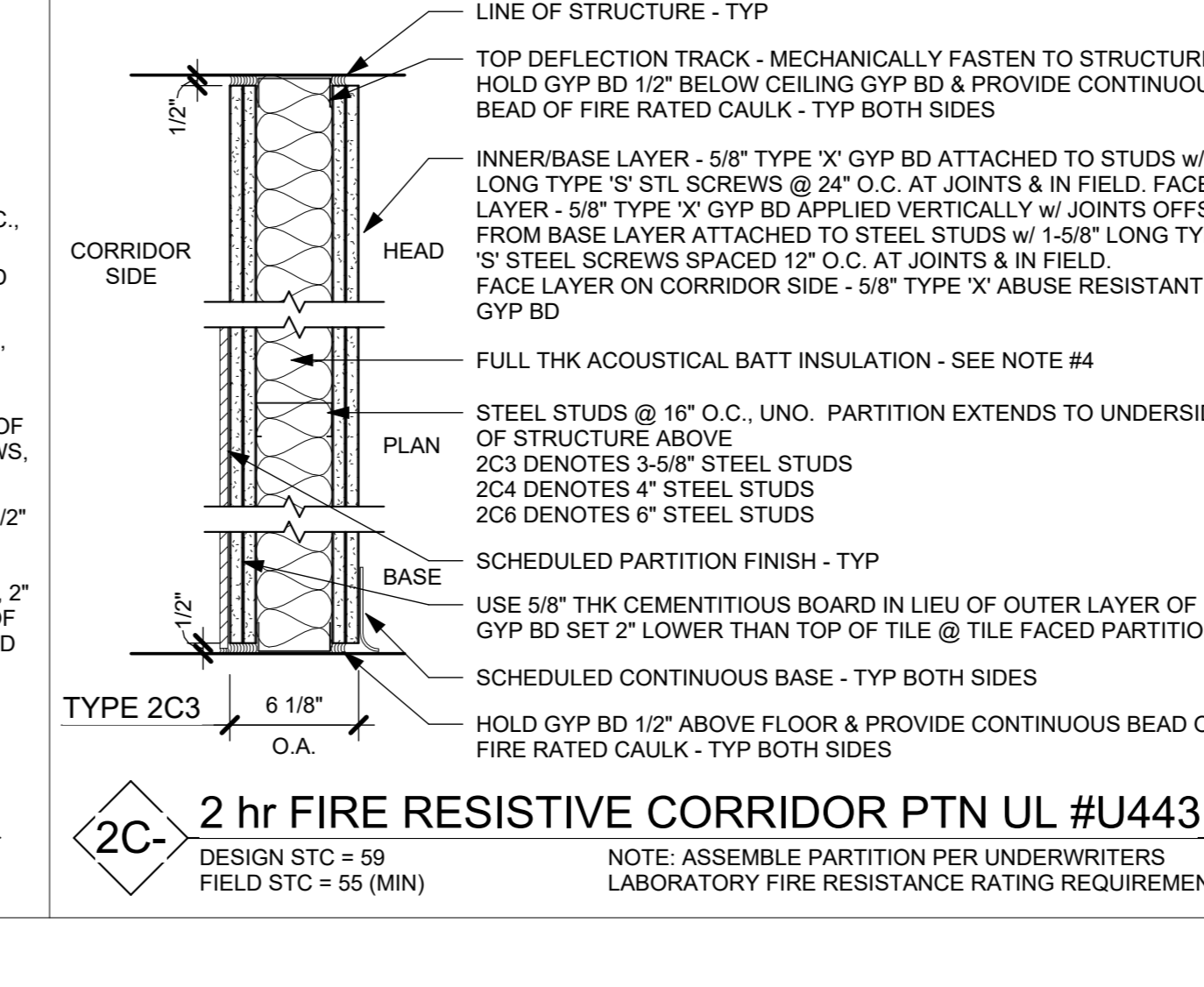
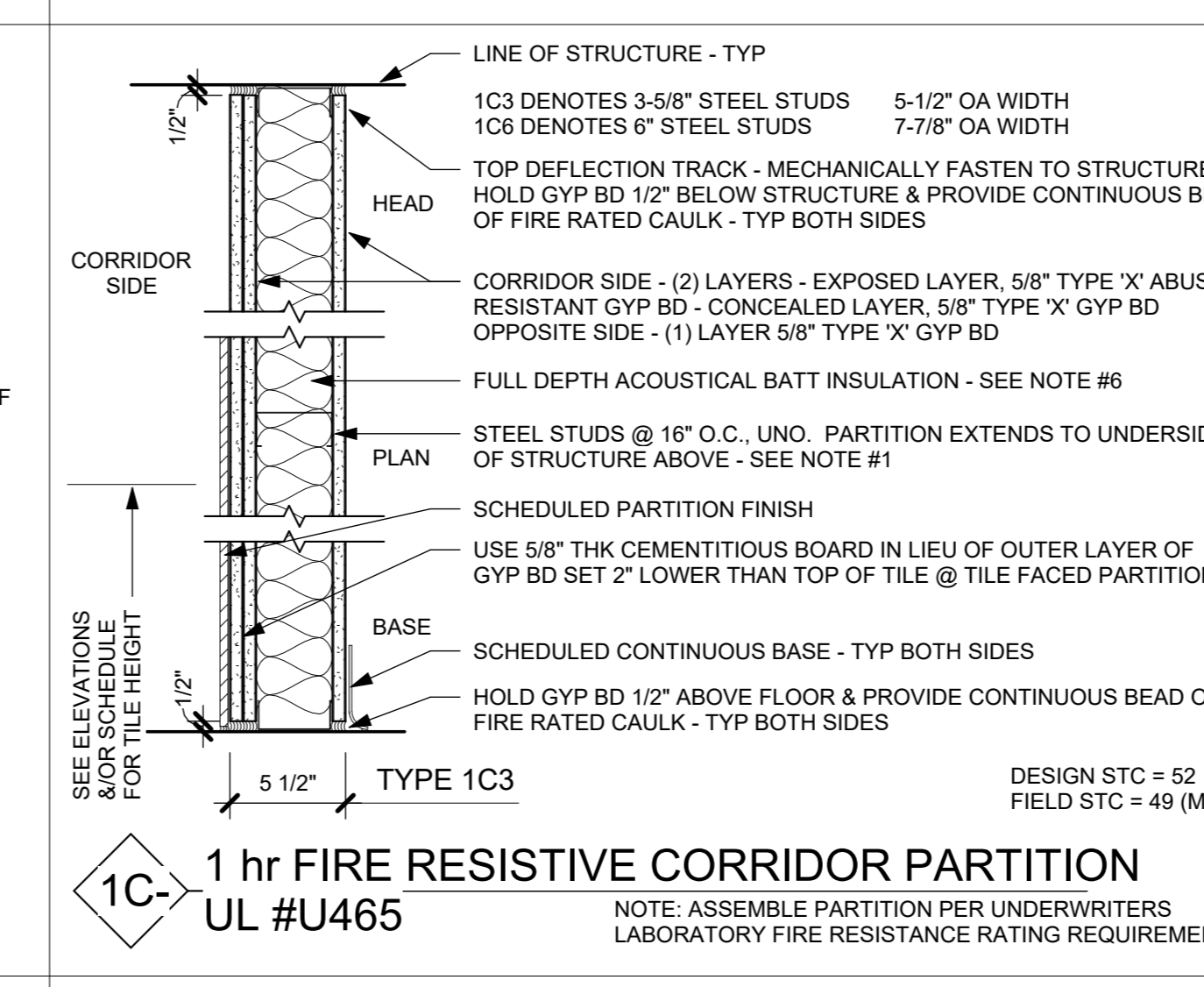
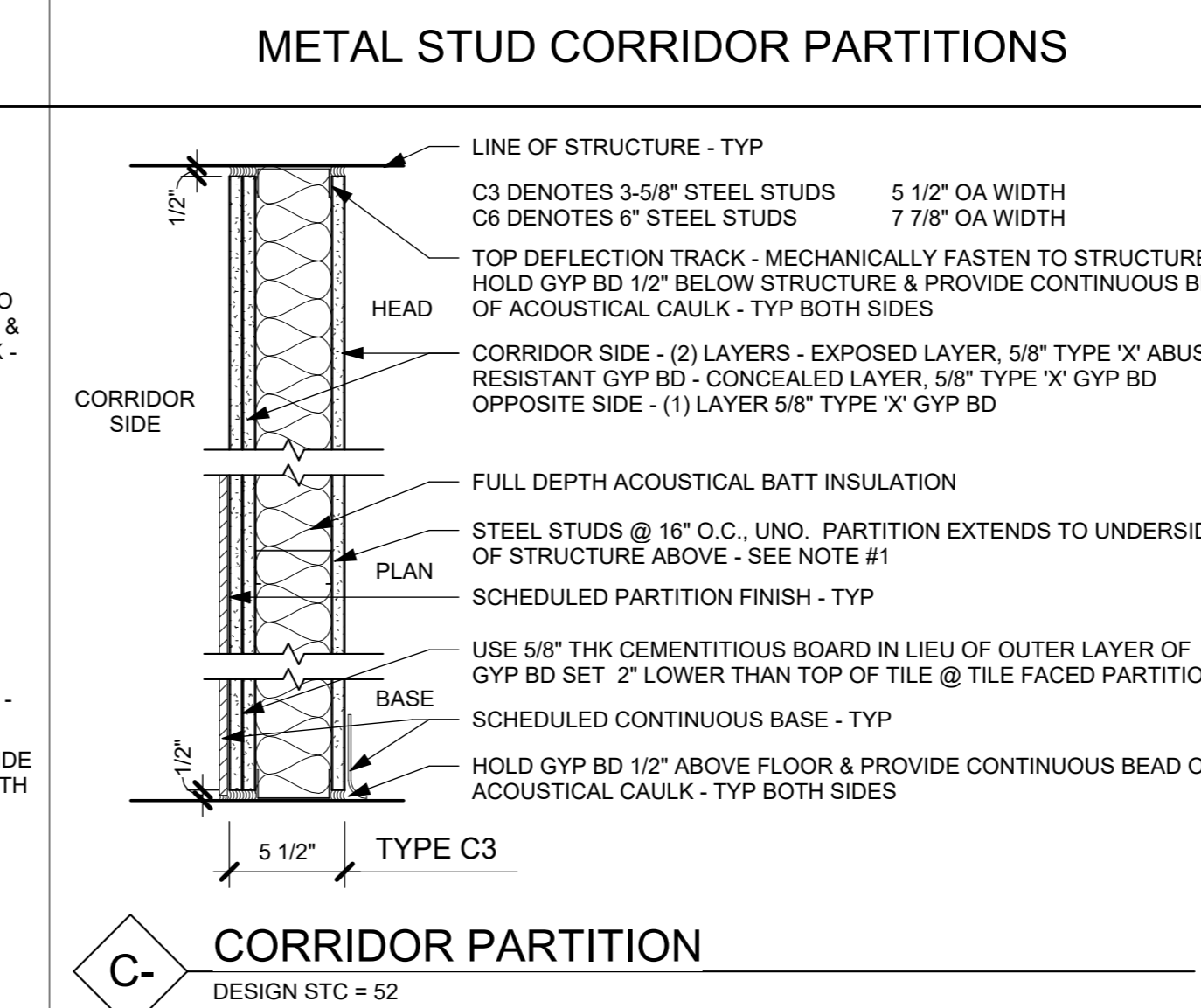
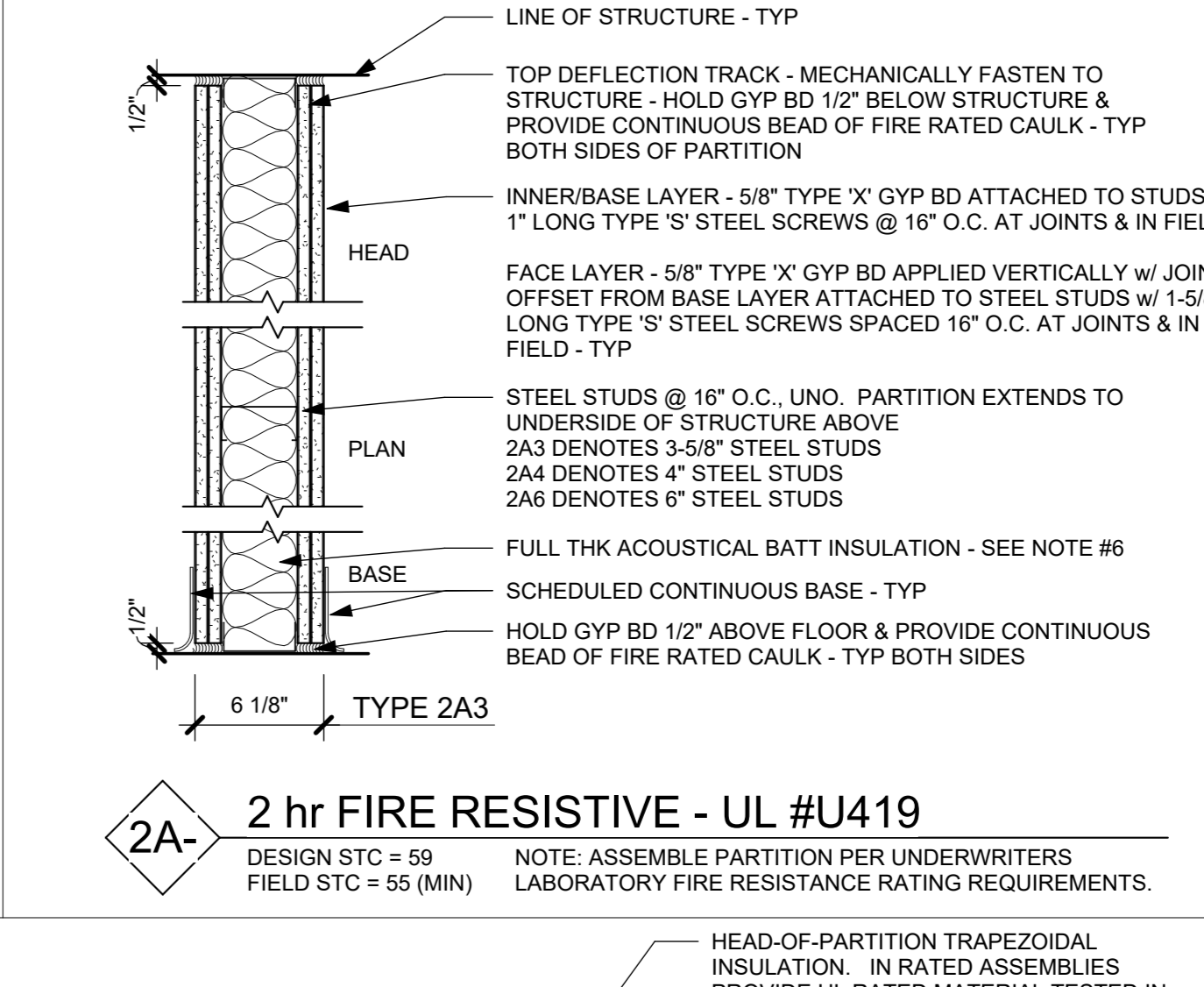
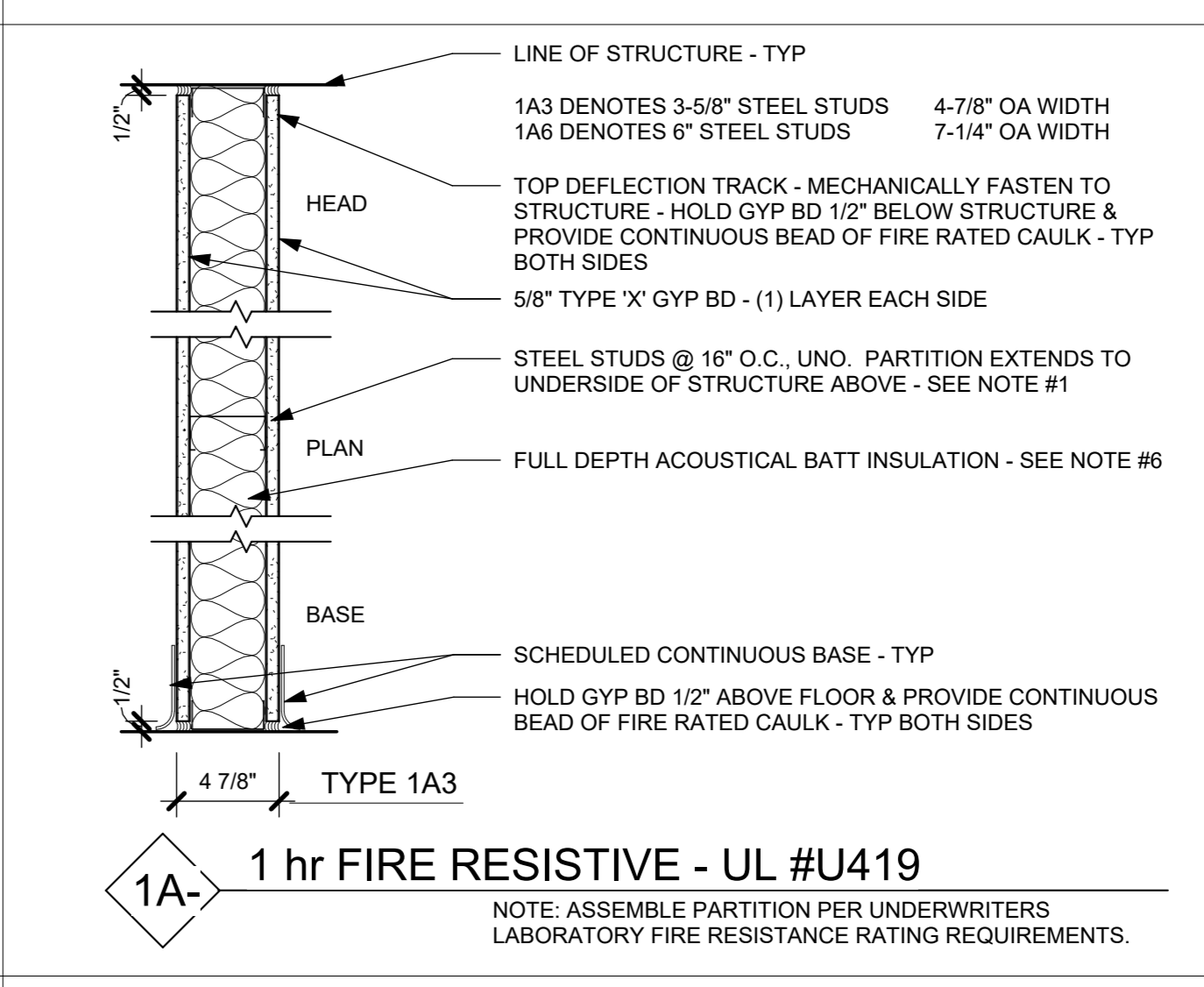
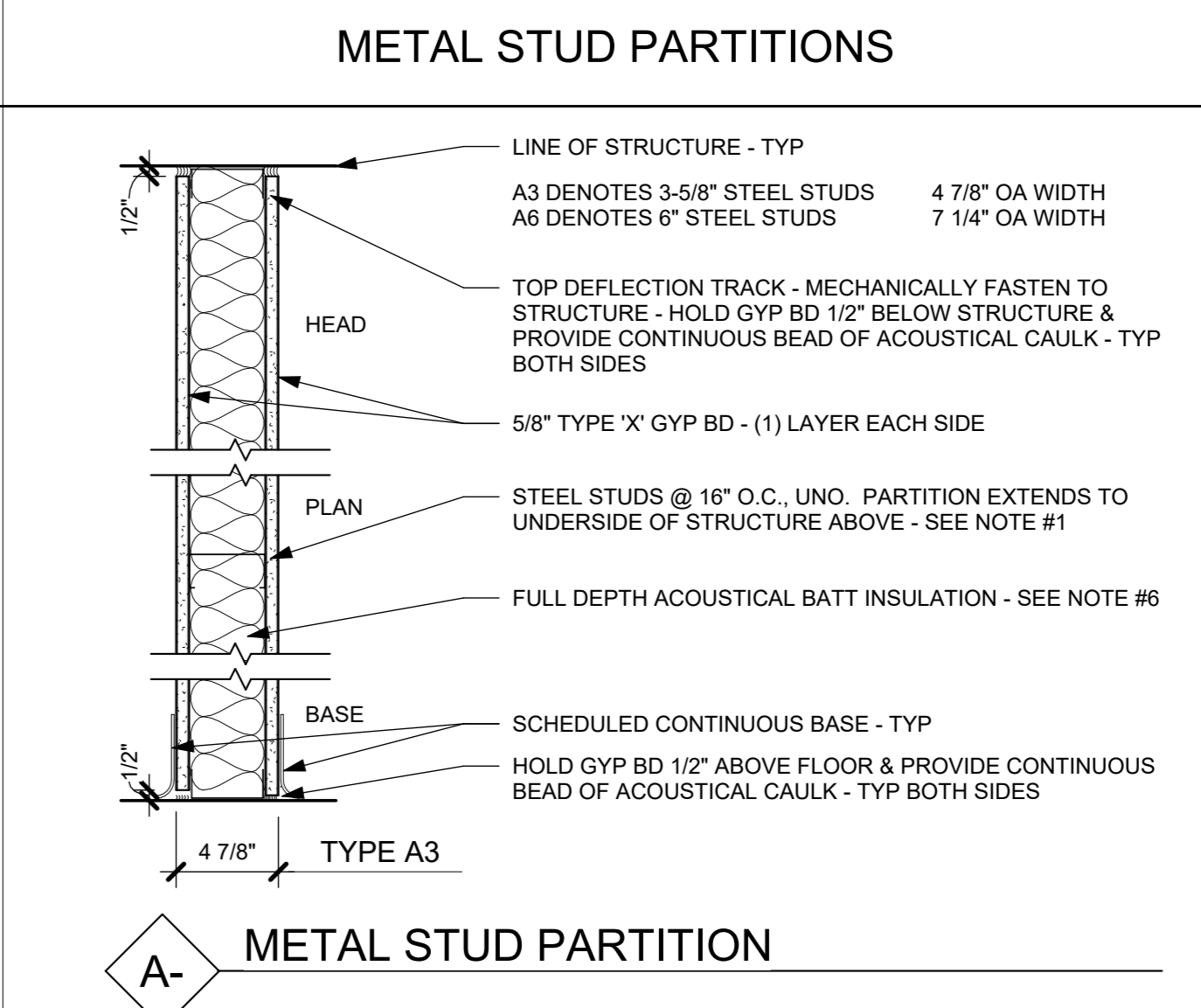
CONSTRUCTION DOCUMENTS

NON-RATED PARTITIONS

1hr RATED PARTITIONS

2hr RATED PARTITIONS

GENERAL PARTITION NOTES / DETAILS



PARTITION TAG NAMING MATRIX

1st DESIGNATOR = FIRE RATING

0 = NON-RATED PARTITION TYPE
 1 = 1 HR FIRE RATED PARTITION TYPE
 2 = 2 HR FIRE RATED PARTITION TYPE

2nd DESIGNATOR = PARTITION MATERIAL / FUNCTION

A = GYP BOARD - BOTH SIDES
 B = CEMENTITIOUS BOARD - 1 OR BOTH SIDES
 C = ABUSE RESISTANT BOARD - 1 OR BOTH SIDES
 F = FURRING PARTITION
 M = MASONRY PARTITION - CMU
 P = PLUMBING CHASE
 S = SHAFT PARTITION

3rd DESIGNATOR = PARTITION CORE THICKNESS / WIDTH

0 = 7/8\"/>

- PARTITION GENERAL NOTES**
- ALL WALL ASSEMBLIES SHALL BE FULL HEIGHT FROM FLOOR TO UNDERSIDE OF FLOOR SLAB, DECK OR ROOF ABOVE, U.N.O.
 - SEE SPECIFICATIONS FOR FIRESTOPPING REQUIREMENTS.
 - PROVIDE DEFLECTION TRACK AT TOP OF ALL PARTITIONS THAT EXTEND TO STRUCTURE ABOVE. PROVIDE FIRE-RATED DEFLECTION TRACK AT TOP OF ALL FIRE-RATED PARTITIONS.
 - WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE.
 - IN MASONRY WALLS, ALL EXPOSED EDGES AND OUTSIDE CORNERS SHALL BE BULLNOSE.
 - SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR WALL TILE LOCATIONS.
 - ALL GYPSUM WALL BOARD PRODUCTS SHALL BE TYPE X, ABUSE AND MOLD-RESISTANT, U.N.O.
 - PROVIDE STEEL TUBE, ANGLE OR HEAVY GAUGE STUD REINFORCING INSIDE PARTIAL HEIGHT PARTITIONS, AS REQUIRED TO MEET PARTITION DEFLECTION CRITERIA.
 - FOR ACOUSTICAL BATT INSULATION IN PARTITIONS: SEAL AIRTIGHT w/ NON-HARDENING ACOUSTICAL SEALANT AT TOP, BOTTOM & SIDES. PARTITION MOUNTED ELECTRICAL BOXES SHALL BE OFFSET MIN 24\"/>

WALL TYPES & GENERAL NOTES

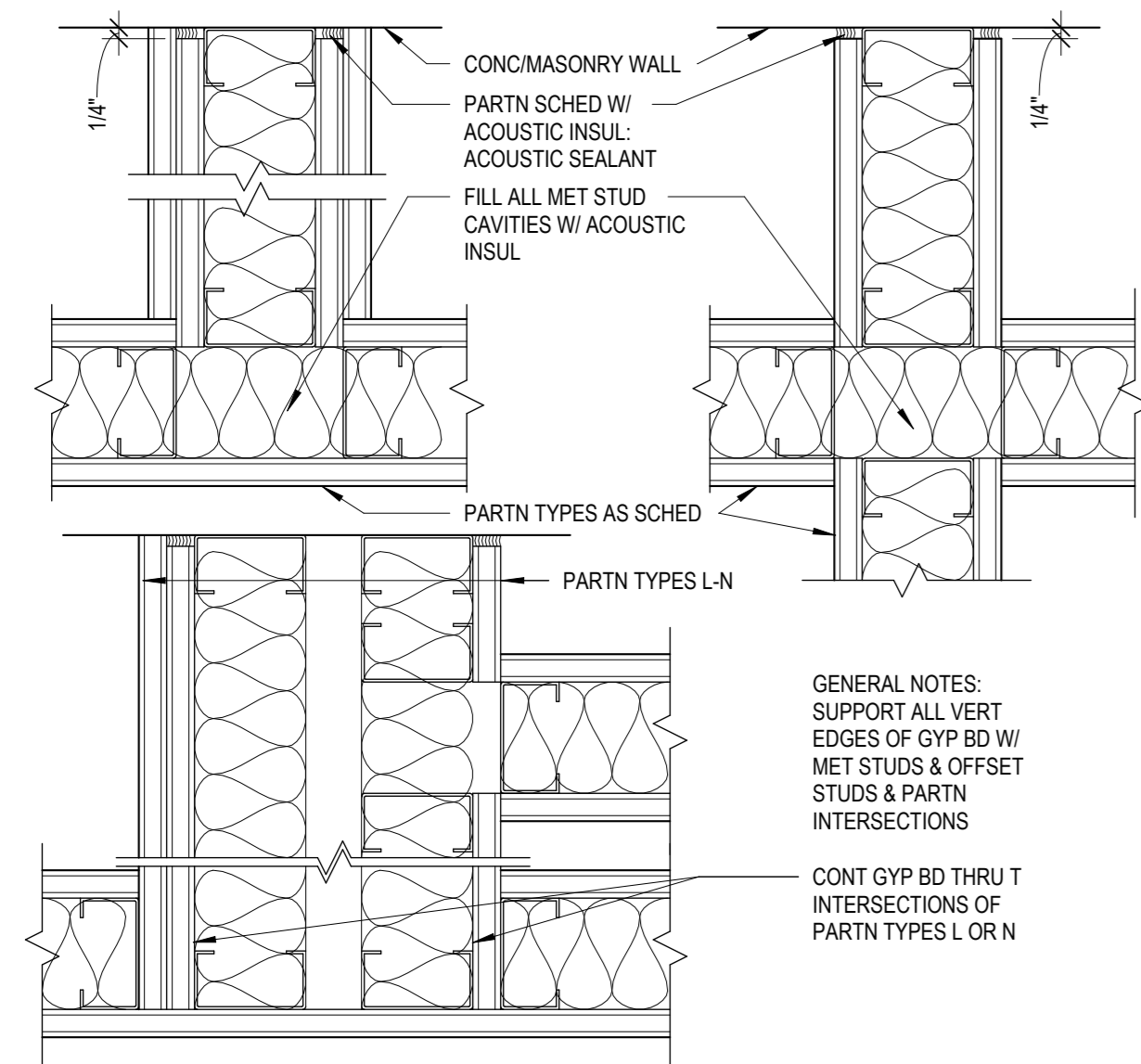
Job No. 2020-1005 Date 03/31/2020
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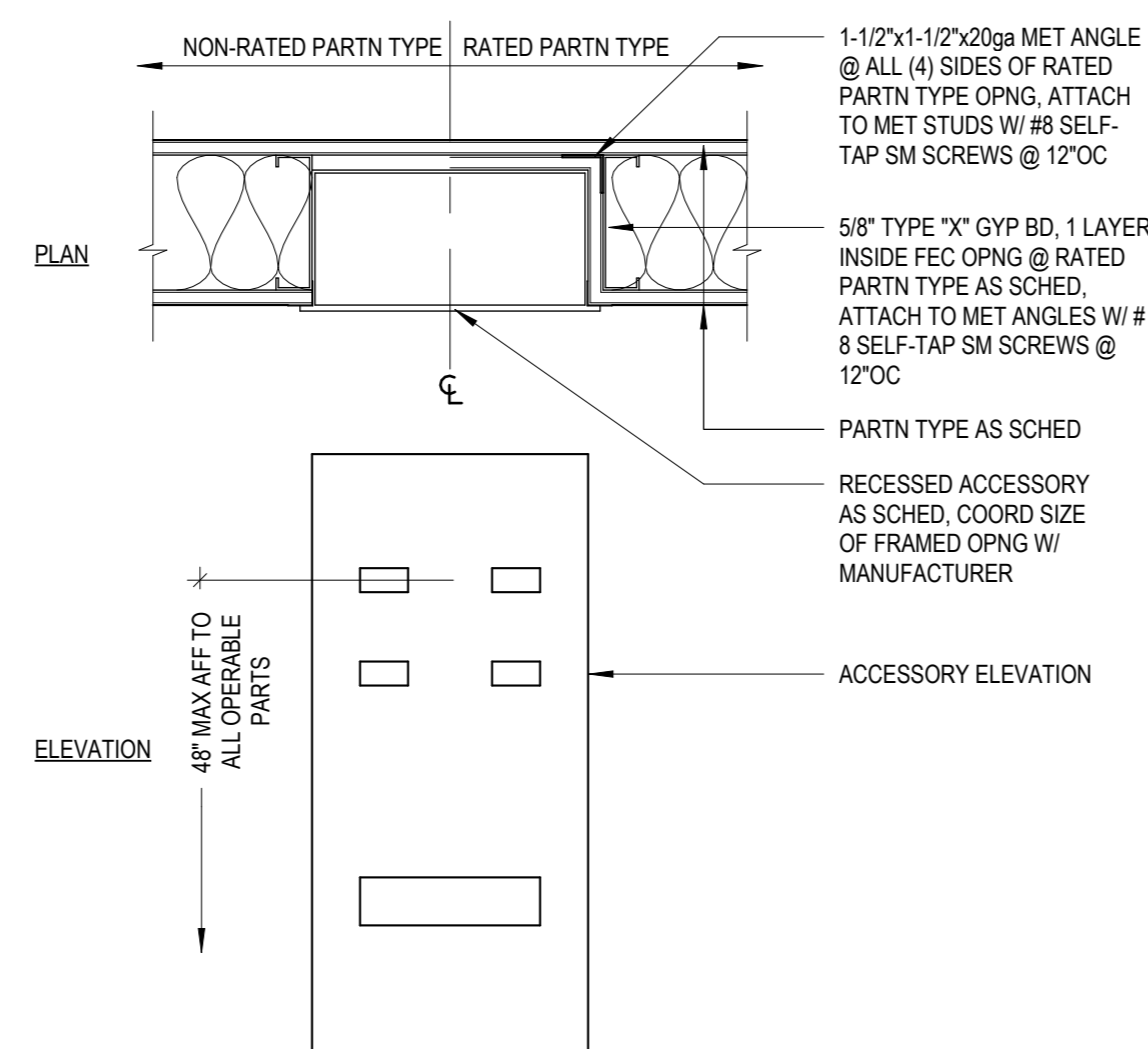
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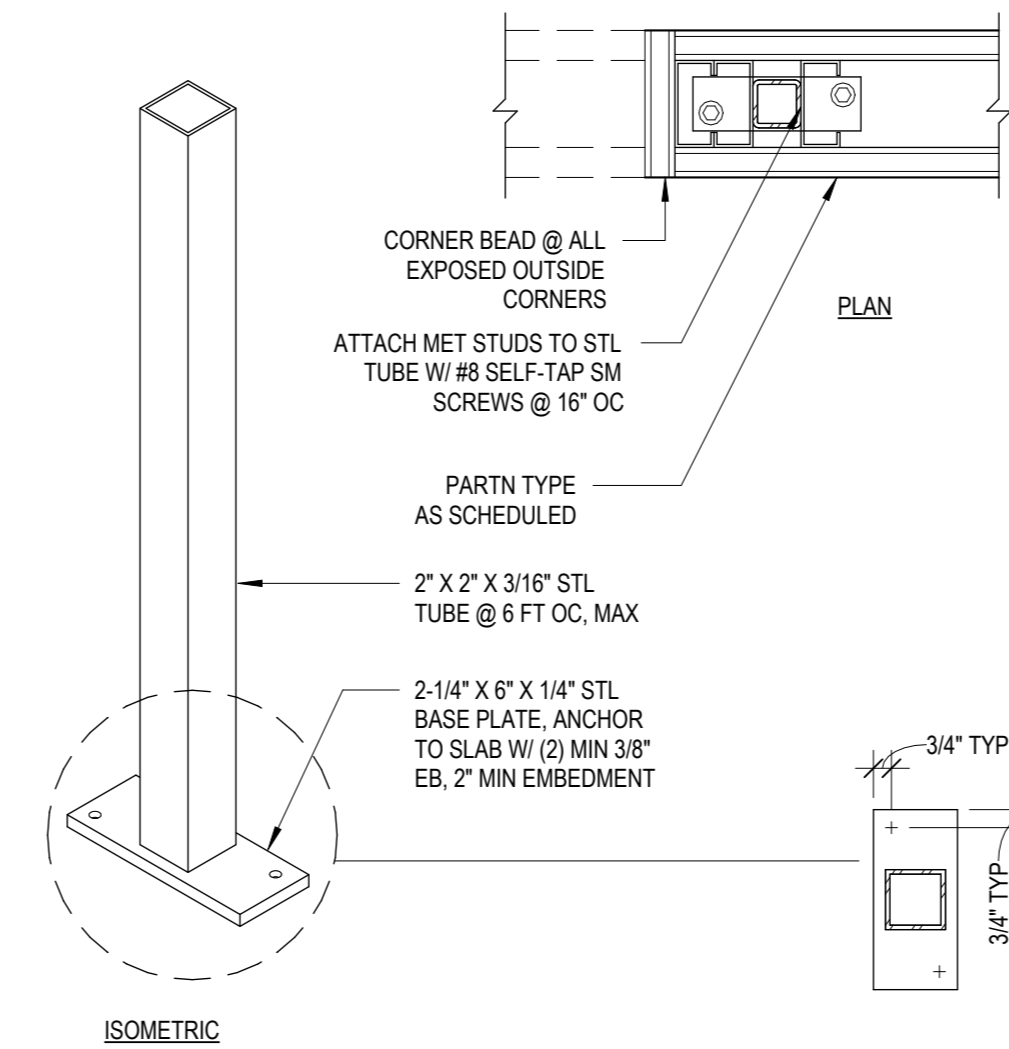
Professional Seal



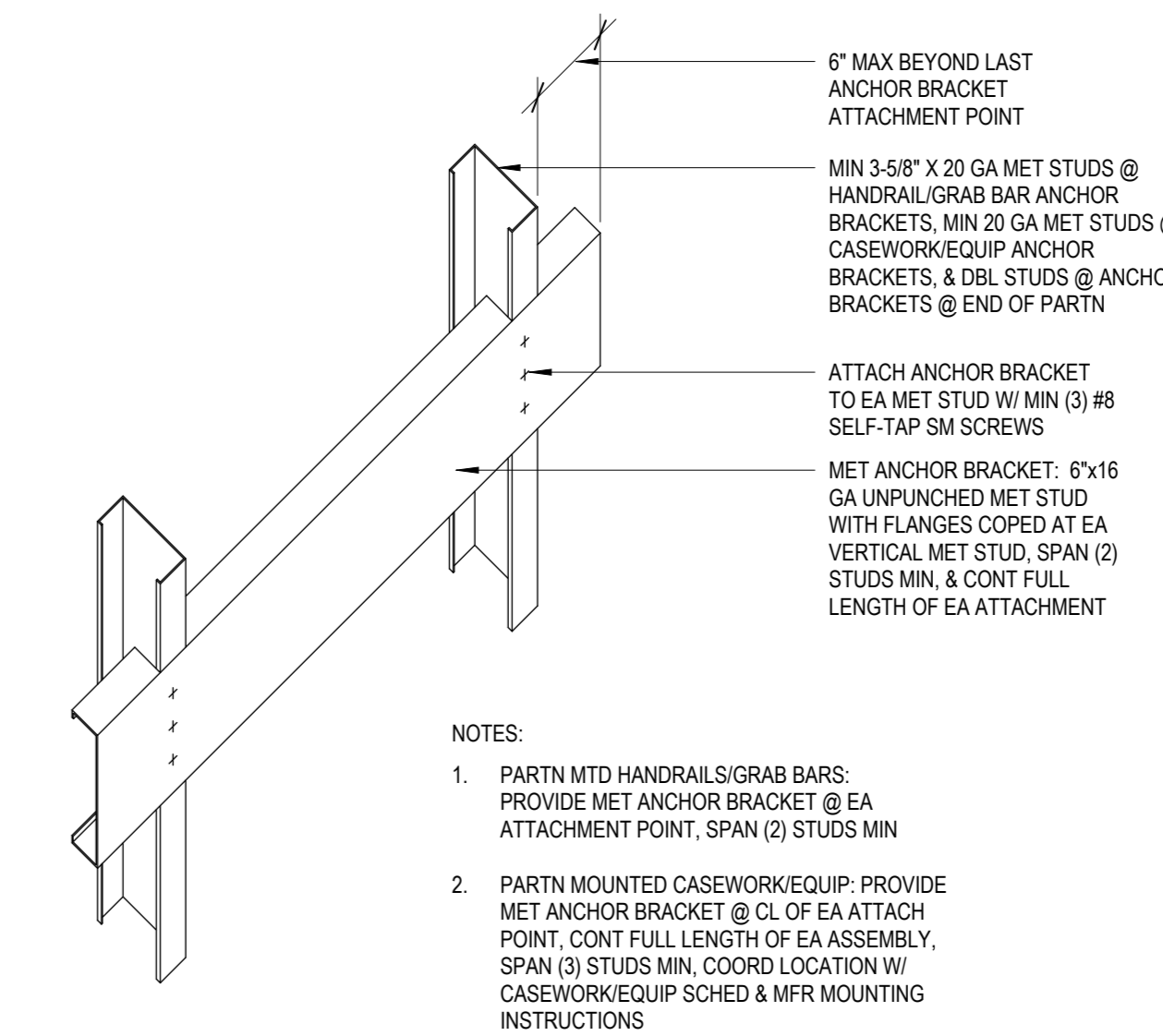
4 TYPICAL PARTITION INTERSECTIONS
3" = 1'-0"



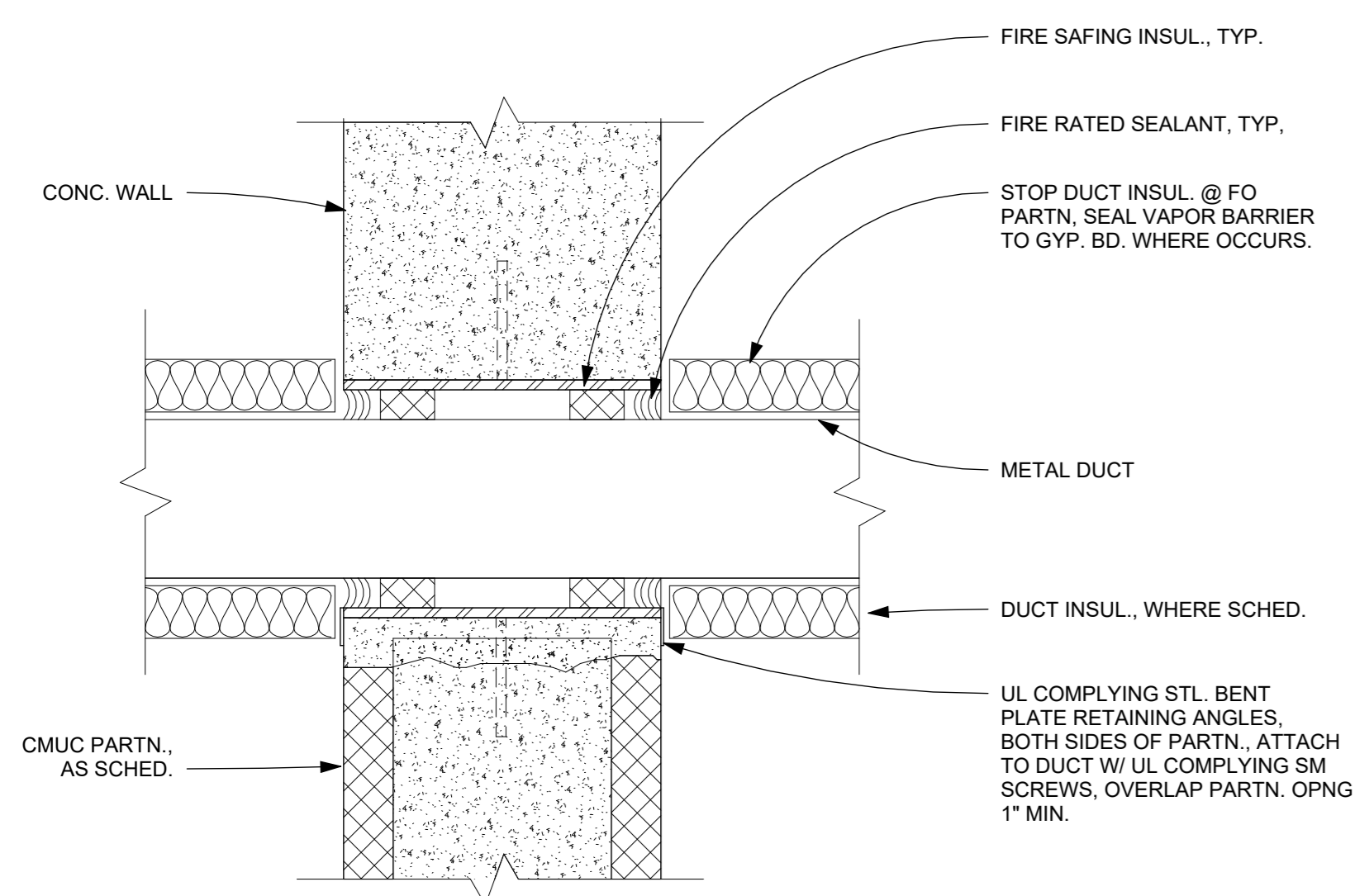
3 RECESSED ACCESSORY CABINET
1 1/2" = 1'-0"



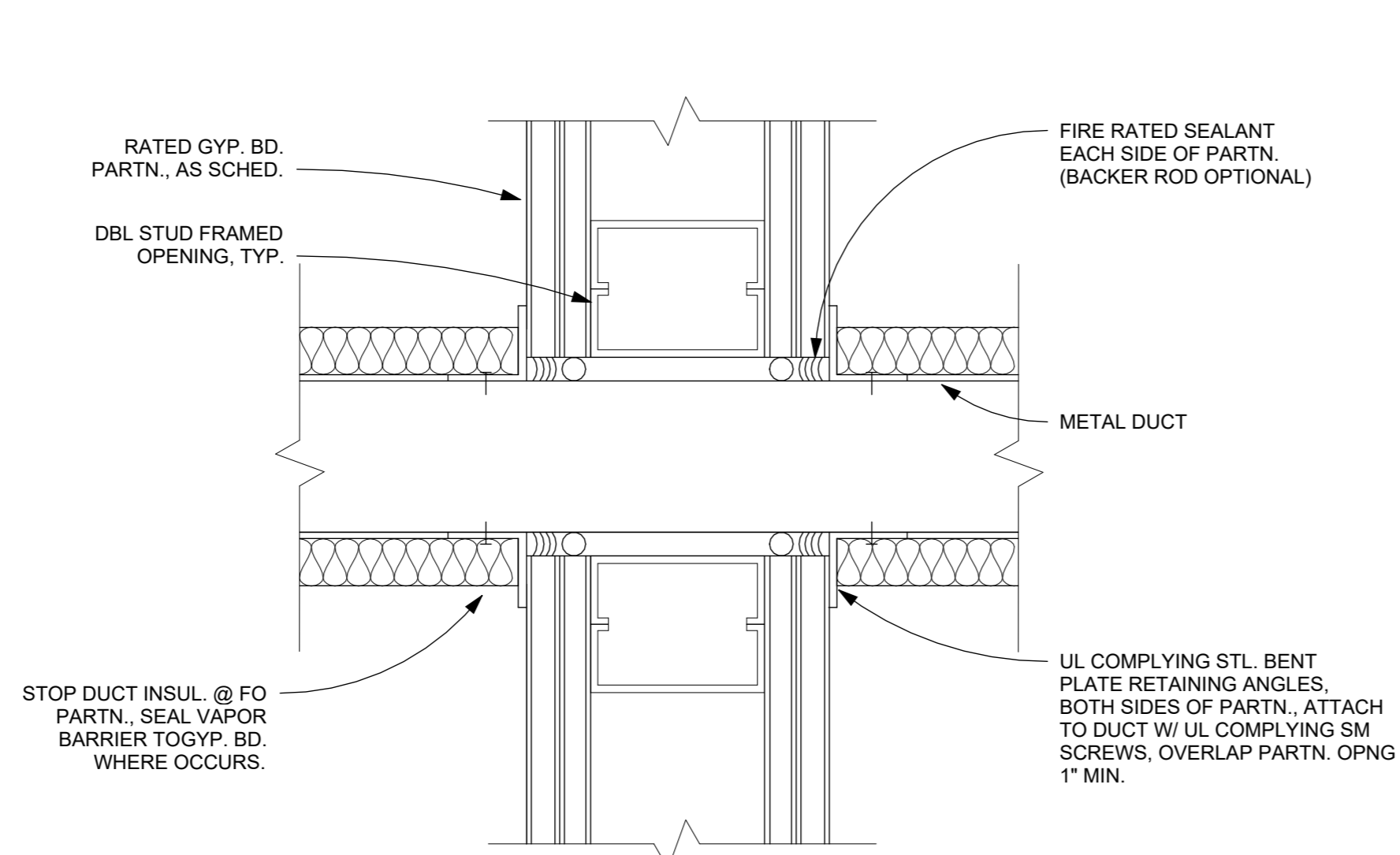
2 PARTIAL HT PARTITION SUPPORT POST
1 1/2" = 1'-0"



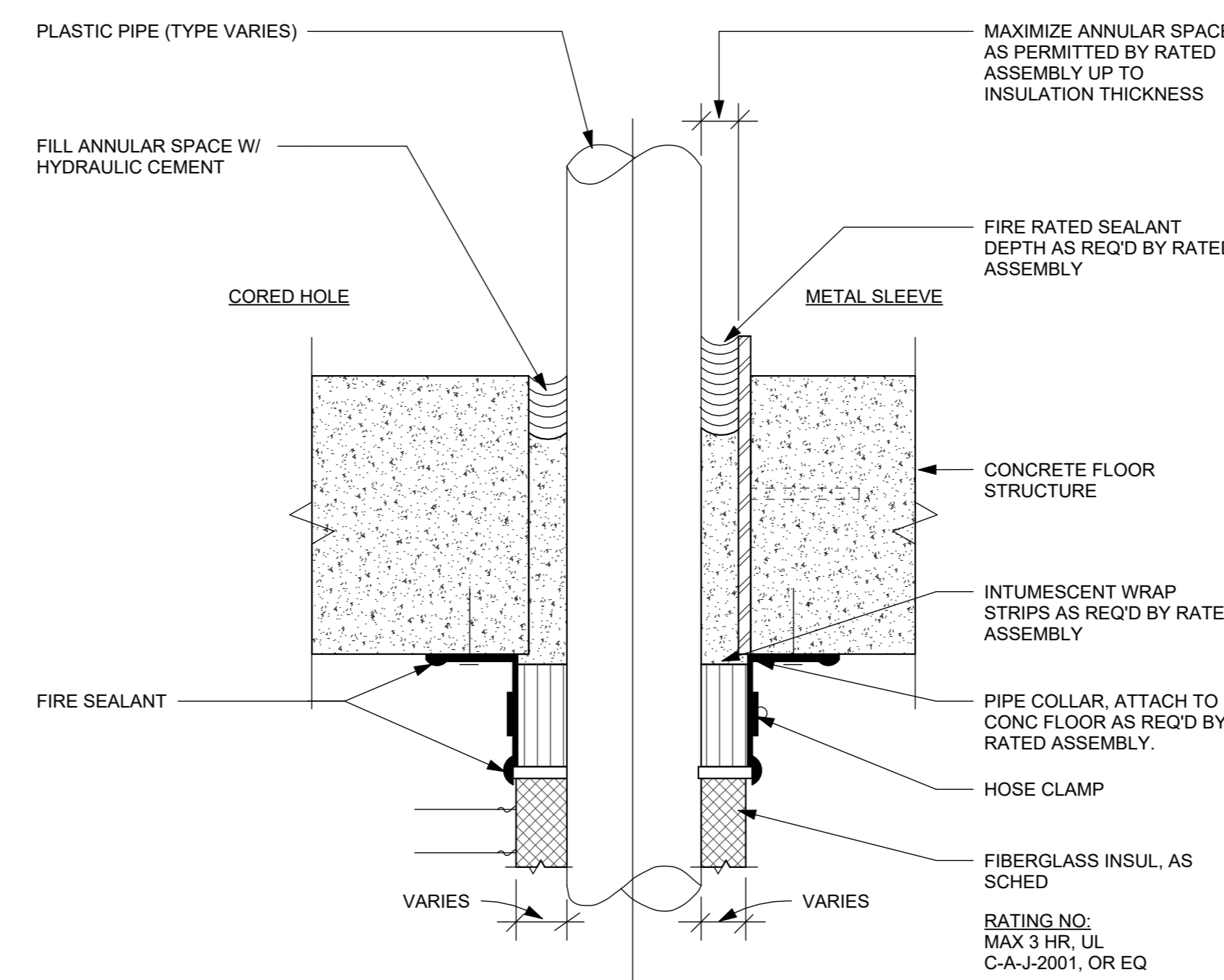
1 TYP MET STUD ANCHOR BRACKET
1 1/2" = 1'-0"



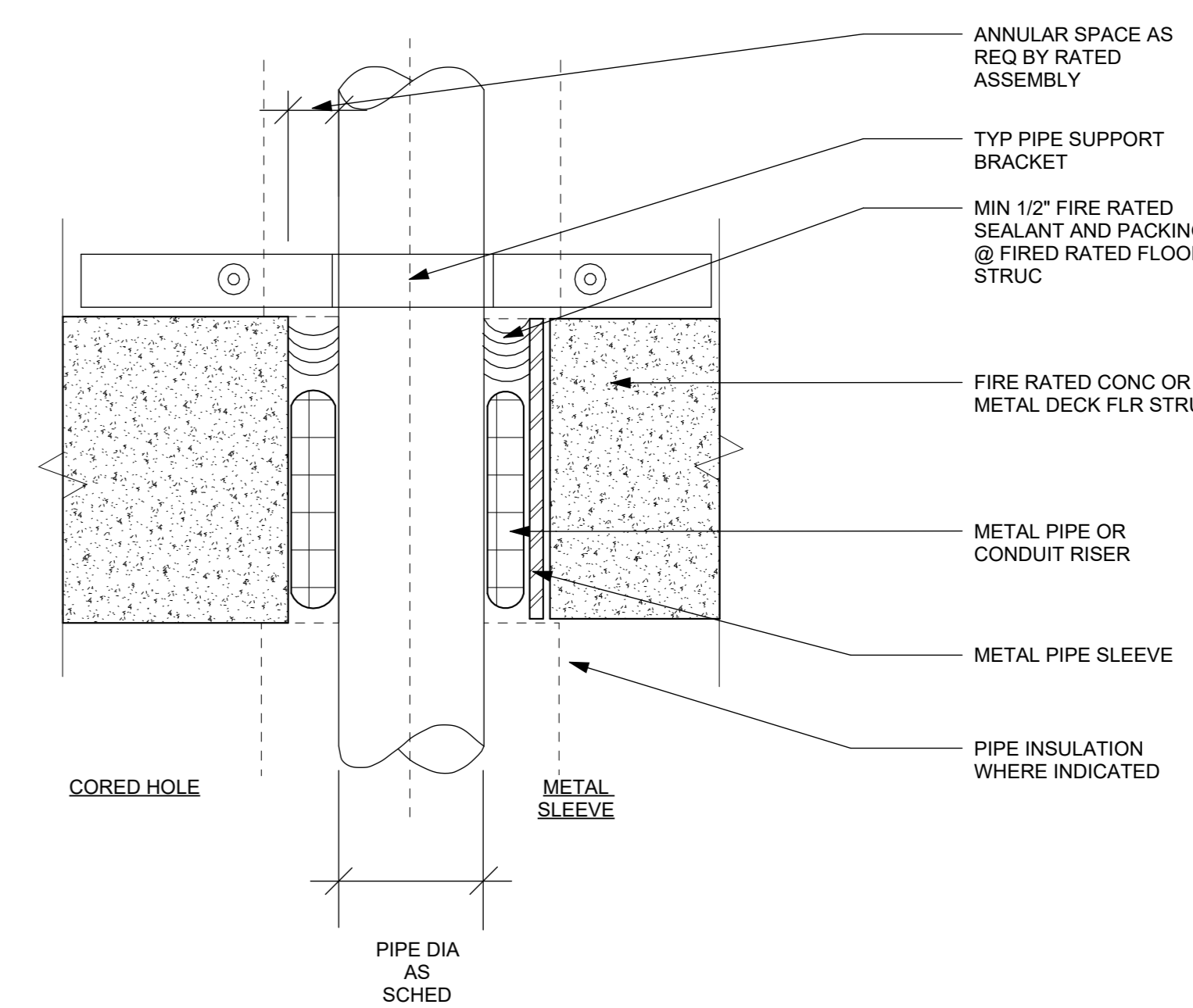
8 METAL DUCT THRU RATED CONC CMU WALL TYP
3" = 1'-0"



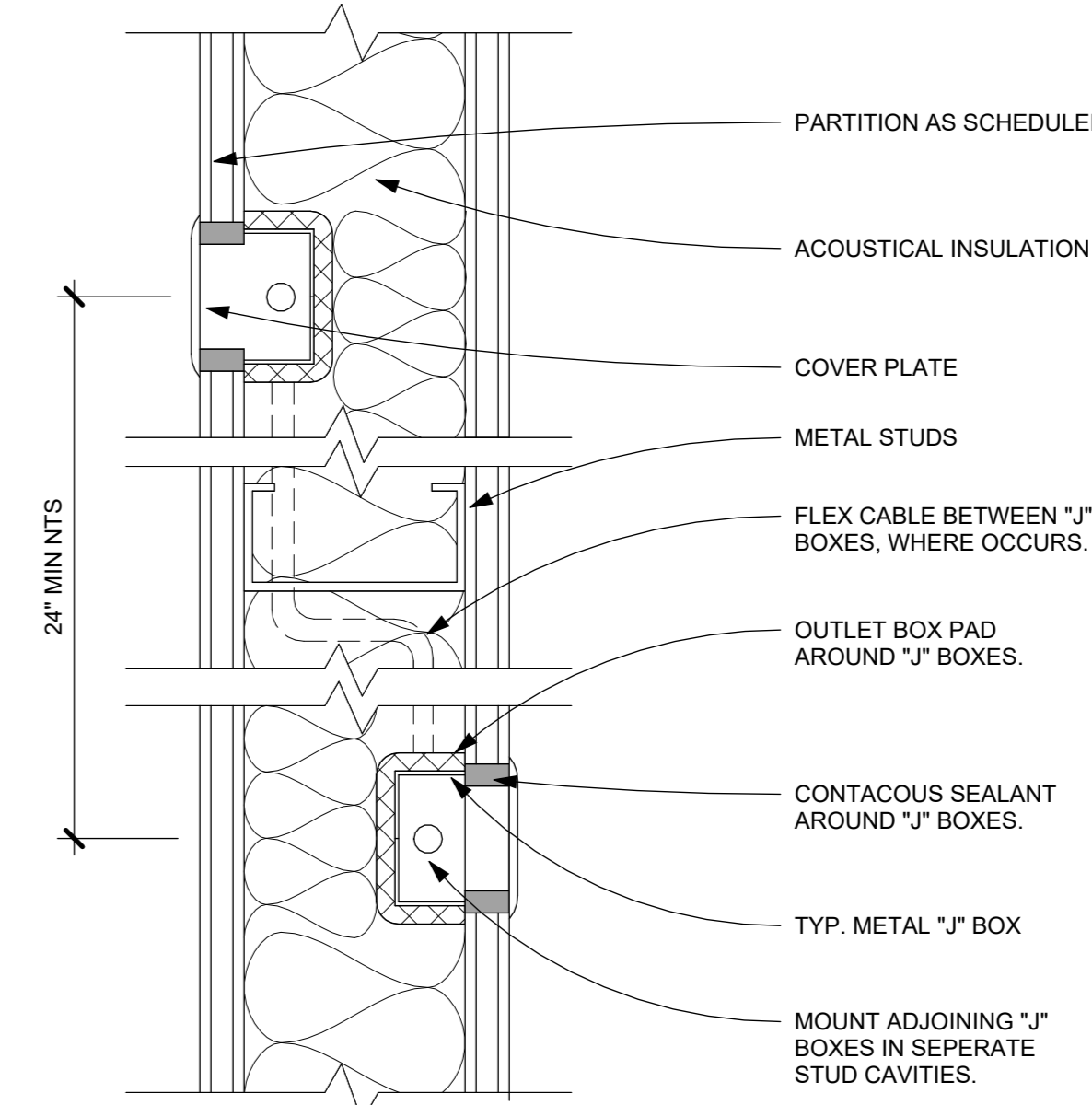
7 METAL DUCT THRU RATED GYP
3" = 1'-0"



6 PLASTIC PIPE THRU RATED CONC FLOOR TYP
3" = 1'-0"



5 PIPE-CONDUIT THRU RATED CONC FLOOR TYP
3" = 1'-0"



9 J BOX AT GYP BD PARTITION W ACOUSTICAL INSUL
3" = 1'-0"

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Sheet Title

**FRAMING &
PENETRATION
DETAILS**

Job No.	Date
2020-1005	12/01/23
Scale	Drawn / Checked
AS NOTED	Author Checker
Sheet Number	

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

GENERAL NOTES

- GLAZING IN FIRE RATED DOORS SHALL BE FIRELITE PLUS TO MEET THE FIRE RATING SCHEDULED, UNLESS NOTED OTHERWISE.
- G.C. SHALL VERIFY SIZE OF REPLACEMENT DOORS & FRAMES IN THE EXISTING BUILDING BEFORE ORDERING.
- SEE SPEC. SECTION 08 71 00 FOR DOOR HARDWARE SETS, HARDWARE NOTES, COMPONENTS & OTHER INFORMATION.
- EXTERIOR DOOR PAIRS SHALL HAVE AN ALUMINUM KEYPED REMOVABLE MULLION WITH RIM CYLINDER EXIT DEVICE WKEYED CYLINDER DOGGING.
- INTERIOR DOOR PAIRS SHALL HAVE AN HOLLOW METAL KEYPED REMOVABLE MULLION WITH RIM CYLINDER EXIT DEVICE WKEYED CYLINDER DOGGING, EXCEPTION IS CROSS-CORRIDOR DOOR PAIRS & DOORS INTO STAIRS.
- FRP DOORS SHALL HAVE SUITABLE BLOCKING FOR LEVER OR ARCHITECTURAL PULLS. RECESSED DOOR PULL NOT ACCEPTABLE.
- FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS 4" (TYPICAL) U.N.O. SEE DETAILS A & B ON A9.2.

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Sheet Title

DOOR SCHEDULE & TYPICAL DOOR DETAILS

Job No.	2020-1005	Date	-
Scale	AS NOTED	Drawn / Checked	-
Sheet Number	A911		

Mark	Room	# LEAVES	WI	HT	Elev	Door Mat	Door Fin	Fram e Mat	Frame Fin	Frame Type	Fire Label	Saddle	HDWE SET	MH/CR	Comments
PARKING															
B01	PARKING	1	3'-0"	7'-0"	F	FRP	FF	HM	PTD	01M		AL	5.0	CR	
B03	ELEC	1	3'-0"	7'-0"	F	HM	PTD	HM	PTD	01M	45 MIN	AL	28.0		
B04A	STORAGE	2	6'-0"	7'-0"	F	HM	PTD	HM	PTD	02M		AL	27.0		
B04B	STORAGE	1	3'-0"	7'-0"	F	HM	PTD	HM	PTD	01M		AL	26.0		
B05	OFFICE	1	3'-0"	7'-0"	F	FLNG	HM	PTD	HM	PTD	01M		AL	18.0	
B06A	MECH	2	6'-0"	7'-0"	F	HM	PTD	HM	PTD	02M	45 MIN	AL	27.0		
B06B	MECH	2	6'-0"	7'-0"	F	HM	PTD	HM	PTD	02M	45 MIN	AL	27.0		
B07	MECH	2	6'-0"	7'-0"	F	HM	PTD	HM	PTD	02M	45 MIN	AL	27.0		
B08	EMR	2	6'-0"	7'-0"	F	WD	FF	HM	PTD	02M		AL	27.0		
SA0	STAIR A	1	3'-0"	7'-0"	F	FLNG	HM	PTD	HM	PTD	01M	60 MIN	AL	23.0	
SB0	STAIR B	1	3'-0"	7'-0"	F	FLNG	HM	PTD	HM	PTD	01M	60 MIN	AL	22.0	
SD0A	STAIR D	1	3'-0"	7'-0"	F	FLNG	HM	PTD	HM	PTD	01M	60 MIN	AL	23.0	
SD0B	STAIR D	1	3'-0"	7'-0"	F	FLNG	HM	PTD	HM	PTD	01M	60 MIN	AL	23.0	

1st FLOOR	Room	# LEAVES	WI	HT	Elev	Door Mat	Door Fin	Fram e Mat	Frame Fin	Frame Type	Fire Label	Saddle	HDWE SET	MH/CR	Comments	
100A	VESTIBULE	1	3'-0"	8'-0"	WS1	AL	FF	AL	FF	A9		AL	1.0	CR	SECURITY GLAZING @ DOOR & SIDELITES, ADA AUTO OPEN.	
100B	VESTIBULE	2	6'-0"	8'-0"	WS1	AL	FF	AL	FF	A9		AL	2.0		SECURITY GLAZING @ DOOR & SIDELITES.	
100C	VESTIBULE	1	3'-0"	8'-0"	WS1	AL	FF	AL	FF	A9		AL	3.0		SECURITY GLAZING @ DOOR & SIDELITES.	
100D	LOBBY	1	3'-0"	8'-0"	WS1	AL	FF	AL	FF	A8			1.0	CR	SECURITY GLAZING @ DOOR & SIDELITES, ADA AUTO OPEN.	
100E	LOBBY	2	6'-0"	8'-0"	WS1	AL	FF	AL	FF	A8			2.0		SECURITY GLAZING @ DOOR & SIDELITES.	
100F	LOBBY	1	3'-0"	8'-0"	WS1	AL	FF	AL	FF	A8			3.0		SECURITY GLAZING @ DOOR & SIDELITES.	
103	OPEN OFFICE	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	H2			20.0	CR		
103B	CONF	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	H2			18.0			
104	JANITOR	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	01		SL	26.0			
105	TOILET	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	01		SL	29.0			
106A	RECREATION	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	H1			17.0	CR		
106B	RECREATION	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	H1			17.0	CR		
107	COMPUTER	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	H1			20.0	CR		
107A	STORAGE	1	3'-0"	7'-0"	F	HM	PTD	HM	PTD	01M			24.0			
108	ARTS/ CRAFTS	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	H5		SL	20.0	CR		
108A	STORAGE	1	3'-0"	7'-0"	F	HM	PTD	HM	PTD	01			24.0			
109	WOMEN	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	01		SL	30.0			
110	MEN	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	01		SL	30.0			
111	DATA	1	3'-0"	7'-0"	F	HM	PTD	HM	PTD	01			20.0	CR		
112	MEETING	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	H4			18.0			
112A	MECH	1	3'-0"	7'-0"	F	HM	PTD	HM	PTD	01			26.0			
113A	GYM	2	6'-0"	7'-0"	F	FLNG	HM	PTD	HM	PTD	02M		14.0			
113B	GYM	1	3'-0"	7'-0"	F	FLNG	HM	PTD	HM	PTD	01M		15.0			
113C	STORAGE	2	6'-0"	7'-0"	F	HM	PTD	HM	PTD	02M			25.0		UNDERCUT 1"	
113D	CORR	1	3'-0"	7'-0"	F	FLNG	HM	PTD	HM	PTD	01M		21.0			
113E	ELEC	1	3'-0"	7'-0"	F	HM	PTD	HM	PTD	01M	45 MIN		26.0			
113F	STORAGE	2	6'-0"	7'-0"	F	HM	PTD	HM	PTD	02M			25.0		UNDERCUT 1"	
113G	GYM	2	6'-0"	7'-0"	F	FLNG	FRP	FF	AL	FF	02M		7.0			
113H	GYM	2	6'-0"	7'-0"	F	FLNG	FRP	FF	AL	FF	02M		7.0			
113J	STORAGE	2	6'-0"	7'-0"	F	HM	PTD	HM	PTD	02M			25.0		UNDERCUT 1"	
113K	STORAGE	2	6'-0"	7'-0"	F	HM	PTD	HM	PTD	02M			25.0		UNDERCUT 1"	
113L	ELEC	2	6'-0"	7'-0"	F	HM	PTD	HM	PTD	02M	45 MIN		27.0			
113M	GYM	2	6'-0"	7'-0"	F	FLNG	HM	PTD	HM	PTD	02M		14.0			
114A	EAST CORR	1	3'-0"	8'-0"	WS1	AL	FF	AL	FF	H3			10.0	MH		
114B	EAST CORR	1	3'-0"	8'-0"	WS1	AL	FF	AL	FF	H3			10.0	MH		
114C	EAST CORR	1	3'-0"	8'-0"	WS1	AL	FF	AL	FF	H3	60 MIN		9.0	MH		
114D	EAST CORR	1	3'-0"	8'-0"	WS1	AL	FF	AL	FF	H3	60 MIN		9.0	MH		
115	LOCKER CORR	2	6'-0"	8'-0"	WS1	AL	FF	AL	FF	02		AL	1.1	CR	SECURITY GLAZING @ DOOR & SIDELITES.	
118	FAMILY TOILET	1	3'-0"	7'-0"	F	WD	PTD	HM	PTD	01		SL	29.0			
119	JANITOR	1	3'-0"	7'-0"	F	HM	PTD	HM	PTD	01		SL	26.0			
122	MECH	2	6'-0"	7'-0"	F	FRP	FF	AL	FF	02			8.0	CR		
123	FITNESS	2	6'-0"	7'-0"	F	FLNG	WD	FF	HM	PTD	02			16.0		
123A	STORAGE	2	6'-0"	7'-0"	F	HM	PTD	HM	PTD	02			25.0		UNDERCUT 1"	
123B	FITNESS	2	6'-0"	7'-0"	F	FLNG	FRP	FF	AL	FF	02		AL	6.0		
C101	CORR	1	3'-0"	7'-0"	F	FLNG	HM	PTD	HM	PTD	01		21.0			
SA1	STAIR A	1	3'-0"	7'-0"	F	FLNG	WD	FF	HM	PTD	01M		60 MIN		21.0	
SB1A	STAIR A	1	3'-0"	7'-0"	F	FLNG	WD	FF	HM	PTD	01M		45 MIN		5.0	
SB1	STAIR B	1	3'-0"	7'-0"	F	FLNG	WD	FF	HM	PTD	01M		60 MIN		21.0	
SC1	STAIR C	1	3'-0"	7'-0"	F	FLNG	WD	FF	HM	PTD	01M		60 MIN		21.0	

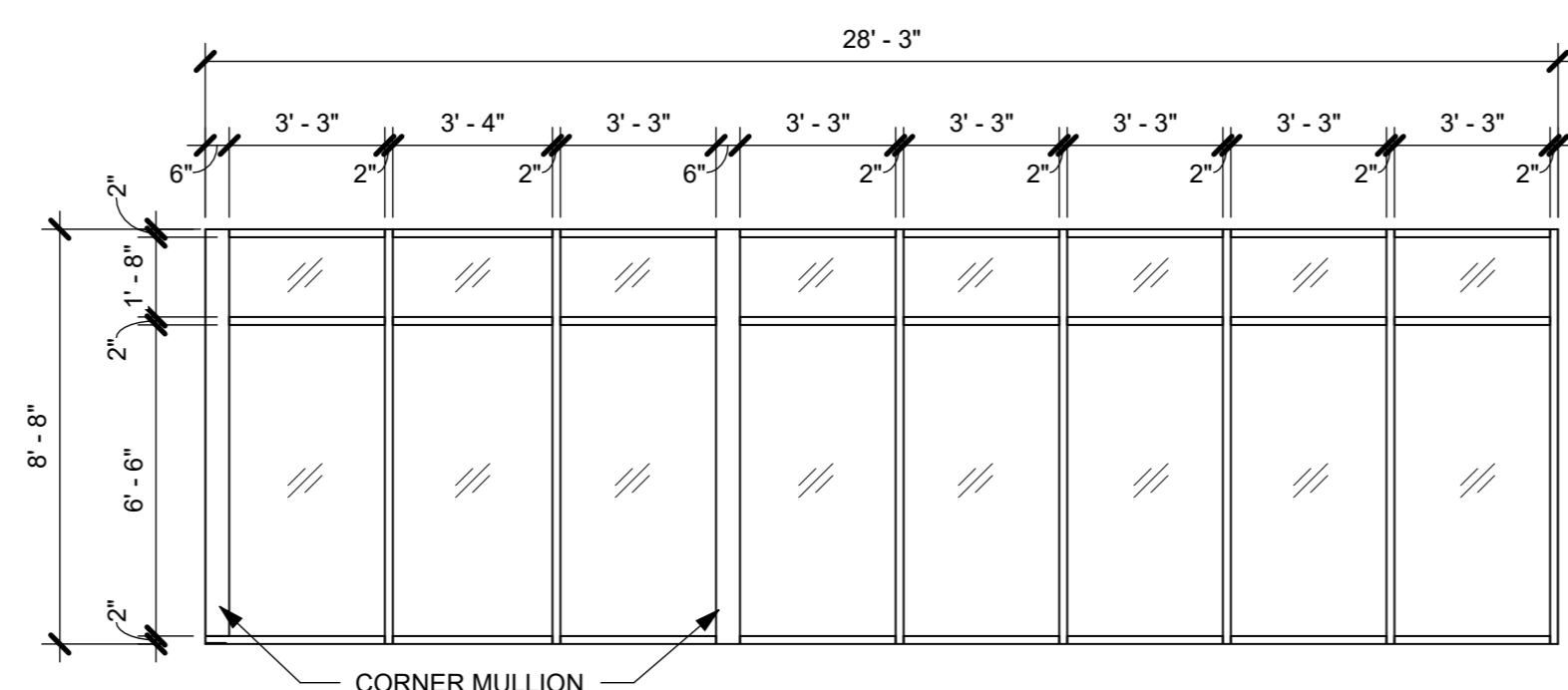
2nd FLOOR	Room	# LEAVES	WI	HT	Elev	Door Mat	Door Fin	Fram e Mat	Frame Fin	Frame Type	Fire Label	Saddle	HDWE SET	MH/CR	Comments
200A	TRACK	1	3'-0"	8'-0"	WS1	AL	FF	AL	FF	A2			12.0		
200B	TRACK	1	3'-0"	8'-0"	WS1	AL	FF	AL	FF	A3			12.0		
202A	MULTI-PURPOSE	1	2'-10"	8'-0"	WS1	AL	FF	AL	FF	04			12.0		
202B	MULTI-PURPOSE	1	3'-0"	8'-0"	WS1	AL	FF	AL	FF	A1			12.0		
203A	MULTI-PURPOSE	1	2'-10"	8'-0"	WS1	AL	FF	AL	FF	04			12.0		
203B	MULTI-PURPOSE	2	6'-0"	7'-0"	F	FLNG	AL	FF	AL	FF	02		13.0		
205A	DATA	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	01			20.0	CR	
205B	STORAGE	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	01			26.0		
206	PANTRY	1	3'-0"	7'-0"	F	FLNG	WD	FF	HM	PTD	01		19.0		
207	WOMEN	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	01		SL	30.0		
208	MEN	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	01		SL	30.0		
209	ELEC	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	01	45 MIN		26.0		
209A	EMR	2	5'-0"	7'-0"	F	WD	FF	HM	PTD	02			27.0		
210	JANITOR	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	01		SL	26.0		
211	TOILET	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	01		SL	29.0		
212	OPEN OFFICE	1	3'-0"	8'-0"	WS1	AL	FF	AL	FF	A6			11.0		
212A	OFFICE	1	3'-0"	7'-0"	F	WD	FF	HM	PTD	H2			18.0		

WINDOW GENERAL NOTES

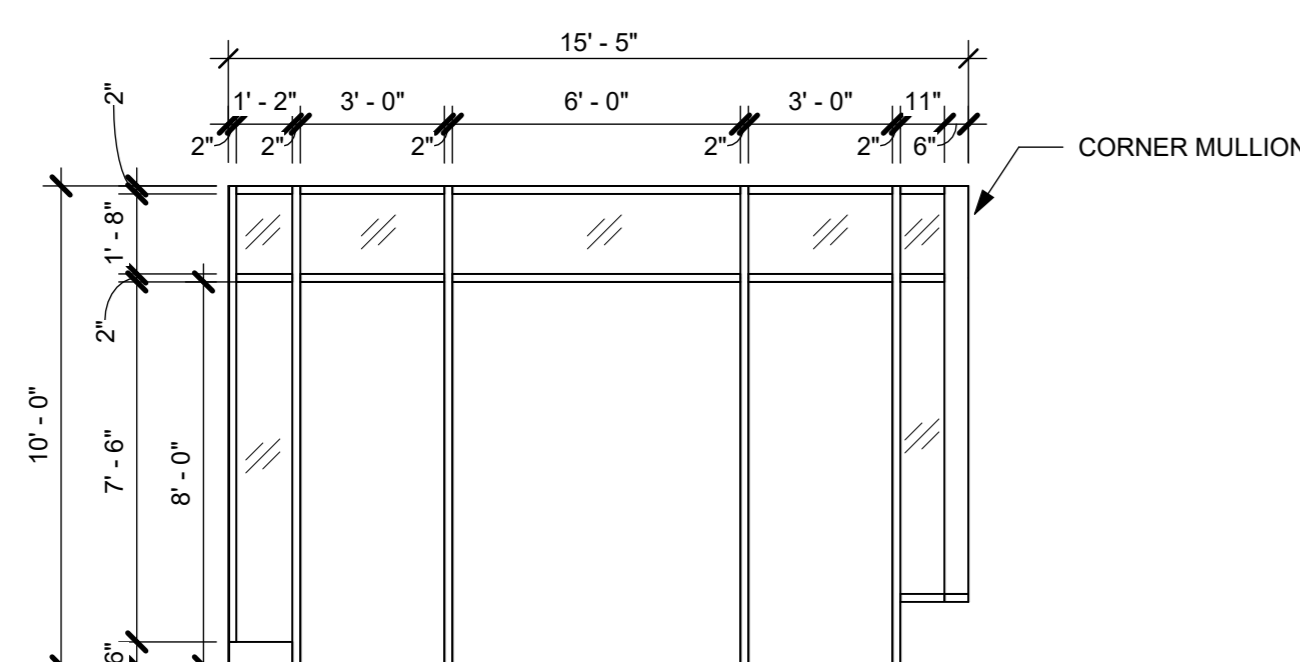
1. GLAZING IN DOORS, SIDELIGHTS & WITHIN 18" OF GRADE, FLOORS, & STAIR LANDINGS SHALL BE LAMINATED SAFETY GLASS, U.N.O. ALL GLAZING IN AREAS WHERE USE MAY CAUSE PHYSICAL ABUSE, SUCH AS GYMNASIUMS & PLAYROOMS SHALL BE SAFETY GLAZING. SAFETY GLAZING SHALL BE IDENTIFIED & LABELED AS SAFETY GLAZING.
2. FIRE-RATED GLAZING ASSEMBLIES, SIZES & TYPES SHALL COMPLY W/ NFPA 80 & OR ASTM E119. FIRE-RATING OF FRAME SHALL MATCH FIRE-RATING OF GLAZING.
3. PROVIDE INSECT SCREENS FOR ALL OPERABLE WINDOWS.
4. SCREENS ON RESCUE WINDOWS SHALL BE HINGED & SHALL BE OPERABLE FROM THE INSIDE WITH ONE HAND & WITHOUT THE USE OF A KEY OR OTHER DEVICE.
5. AT INTERIOR AREAS BEHIND SPANDREL PANELS PROVIDE FRAMING, INSULATION & FINISH MATERIAL TO MATCH ADJACENT WALLS.
6. FRAME(S) SHALL MEET FIRE RATING OF WALL ASSEMBLY, U.N.O.
7. G.C. SHALL PROVIDE LOUVERS & COORDINATE FREE AREA REQUIRED.
8. EXTERIOR LOUVERS SHALL BE 4" DEEP (MIN) ALUMINUM HORIZONTAL BLADE, STORM-PROOF, DRAINABLE, W/ 50% FREE AREA (MIN) FINISHED IN PREMIUM (KYNAR) METALLIC (OR CUSTOM) COLOR SELECTED BY ARCHITECT, W/ BIRD SCREEN, U.N.O. UNUSED PORTIONS OF LOUVERS SHALL BE BLANKED-OFF W/ BLACK PTD SHEETMETAL & INSULATED.

GLAZING LEGEND & TYPES

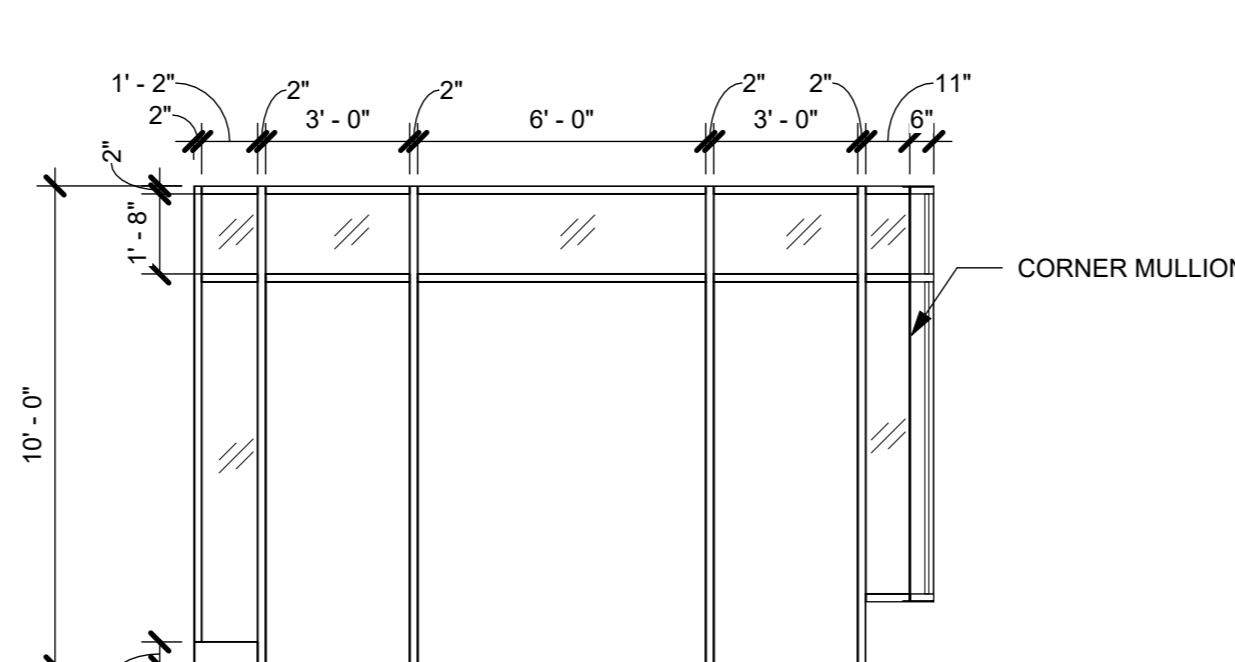
INTERIOR			
KEY	TYPES	USE	DESCRIPTION / BASIS-OF-DESIGN
[Symbol]	WHERE NO TYPE IS INDICATED	GENERAL	CLEAR FLOAT GLASS - SAFETY GLASS WHERE NOTED &/OR SPECIFIED
[Symbol]	FP-RATING	FIRE PROTECTION - RATING AS INDICATED	CLEAR LAMINATED CERAMIC GLASS - MEETS FIRE DOOR CRITERIA & HOSE STREAM TEST PER NFPA 252 (FIRELITE PLUS PREMIUM)
[Symbol]	FR-RATING	FIRE RESISTANCE - RATING AS INDICATED	CLEAR LAMINATED CERAMIC GLASS - MEETS WALL ASSEMBLY & 450° TEMP RISE CRITERIA PER ASTM E119 & NFPA 252 (PILKINGTON PYROSTOP)
[Symbol]	SG-1	SECURITY GLASS	CLEAR CUSTOM SECURITY LAMINATED GLASS (SCHOOL GUARD SG4)
EXTERIOR			
KEY	TYPES	USE	DESCRIPTION / BASIS-OF-DESIGN
[Symbol]		GENERAL	INSULATED CLEAR ANNEALED GLASS W/ LOW-E (SOLARBAN 70) - USE HEAT-STRENGTHENED, LAMINATED, &/OR TEMPERED AS NOTED &/OR SPECIFIED
[Symbol]		SPANDREL	INSULATED CLEAR HEAT-STRENGTHENED GLASS W/ LOW-E (SOLARBAN 70) & SPANDREL COATING AS SPECIFIED
[Symbol]	SG-4	SECURITY GLASS	INSULATED CLEAR CUSTOM SECURITY LAMINATED GLASS W/ LOW-E (SCHOOL GUARD SG4 IGU W/ SOLARBAN 70)



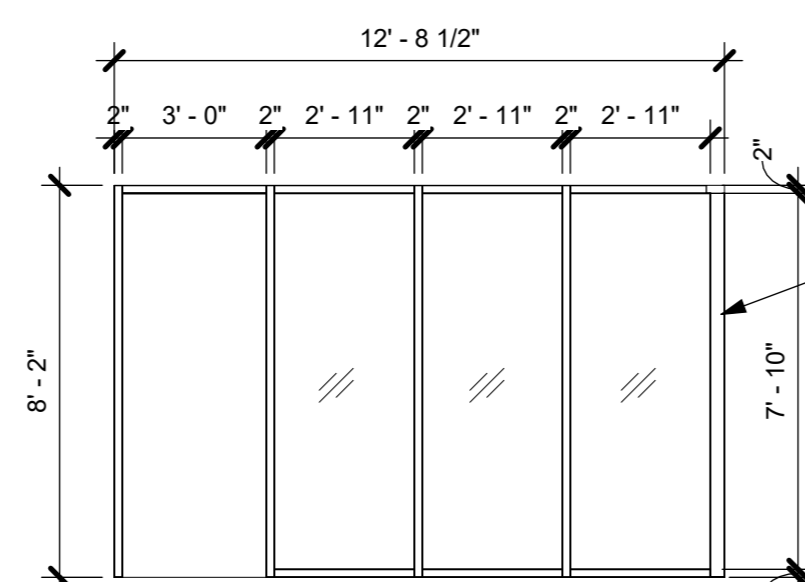
A7 FRAME TYPE - 01
1/4" = 1'-0"



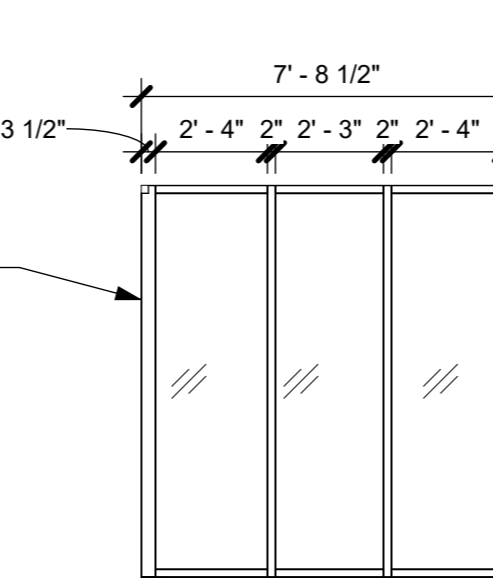
A9 FRAME TYPE - A9
1/4" = 1'-0" PROVIDE SG-4 (SECURITY GLASS) IN DOORS, SIDELIGHTS AND TRANSOMS



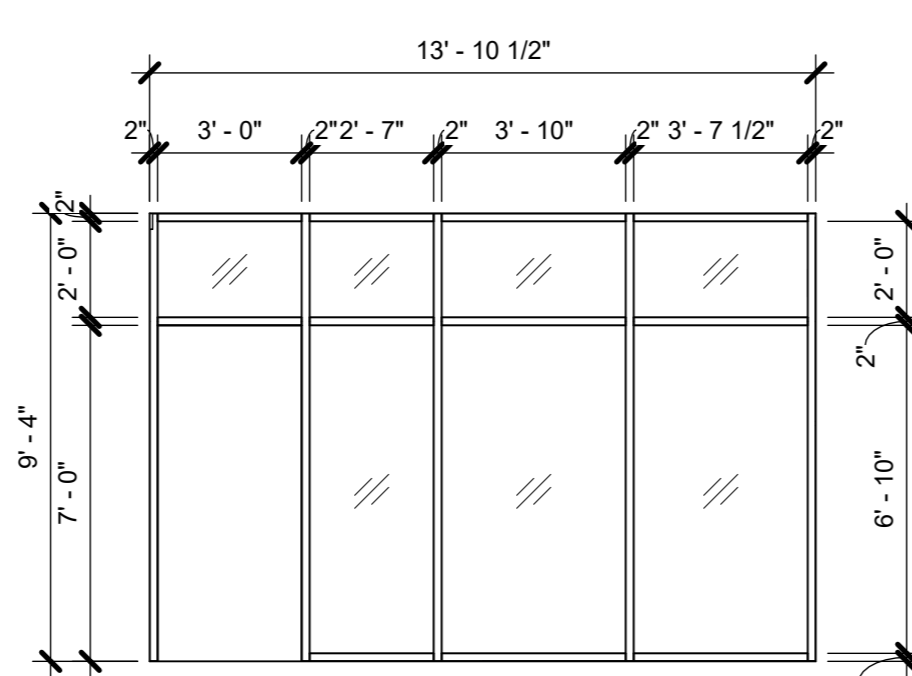
A8 FRAME TYPE - A8
1/4" = 1'-0" PROVIDE SG-4 (SECURITY GLASS) IN DOORS, SIDELIGHTS AND TRANSOMS



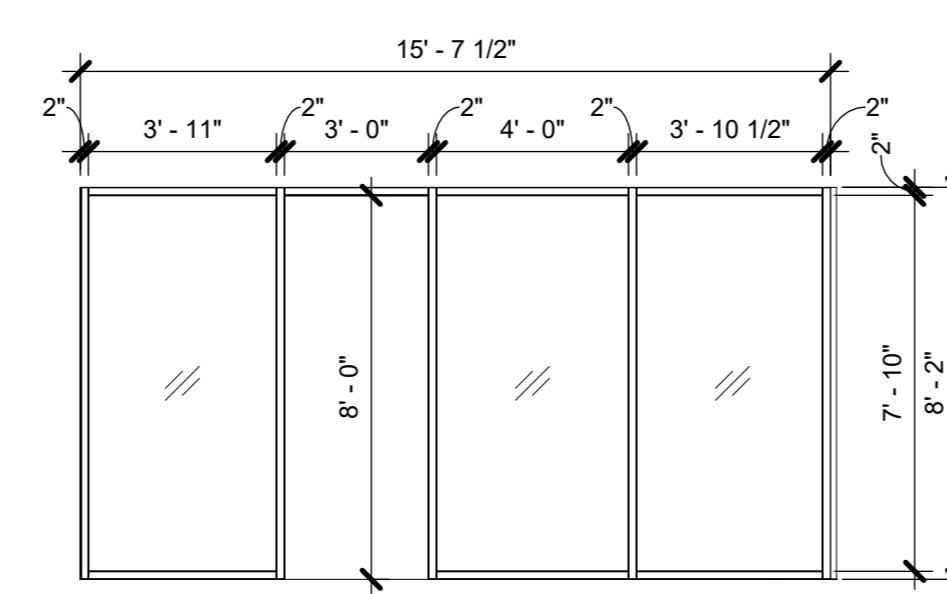
A6 FRAME TYPE - A6
1/4" = 1'-0"



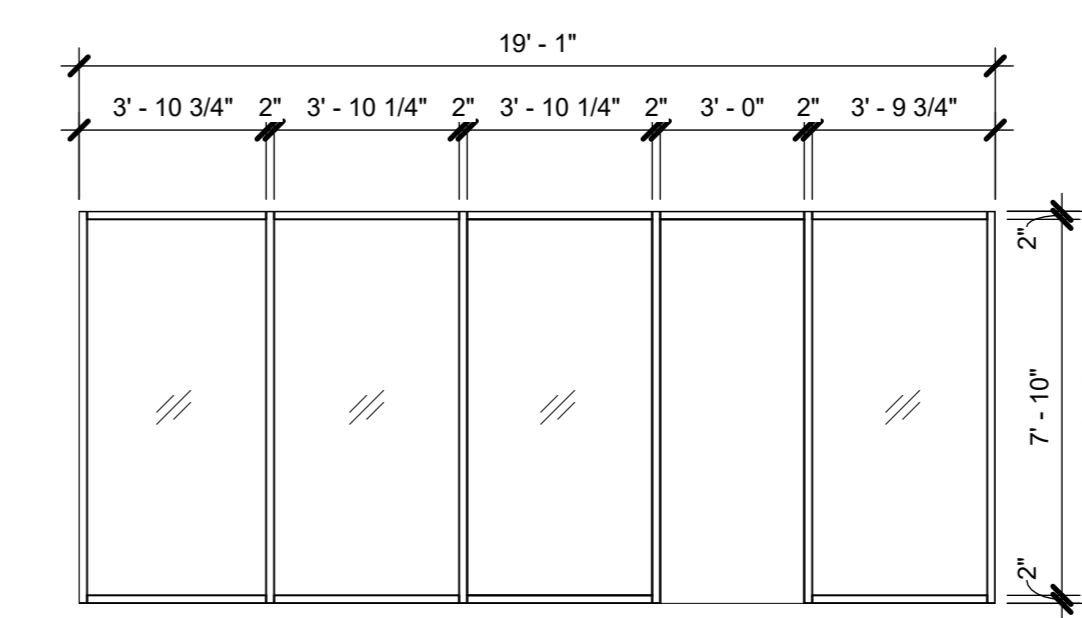
A5 FRAME TYPE - A5
1/4" = 1'-0"



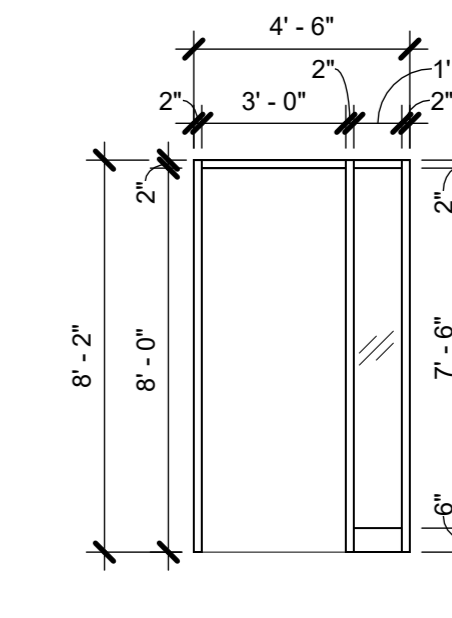
A4 WINDOW TYPE - A4
1/4" = 1'-0"



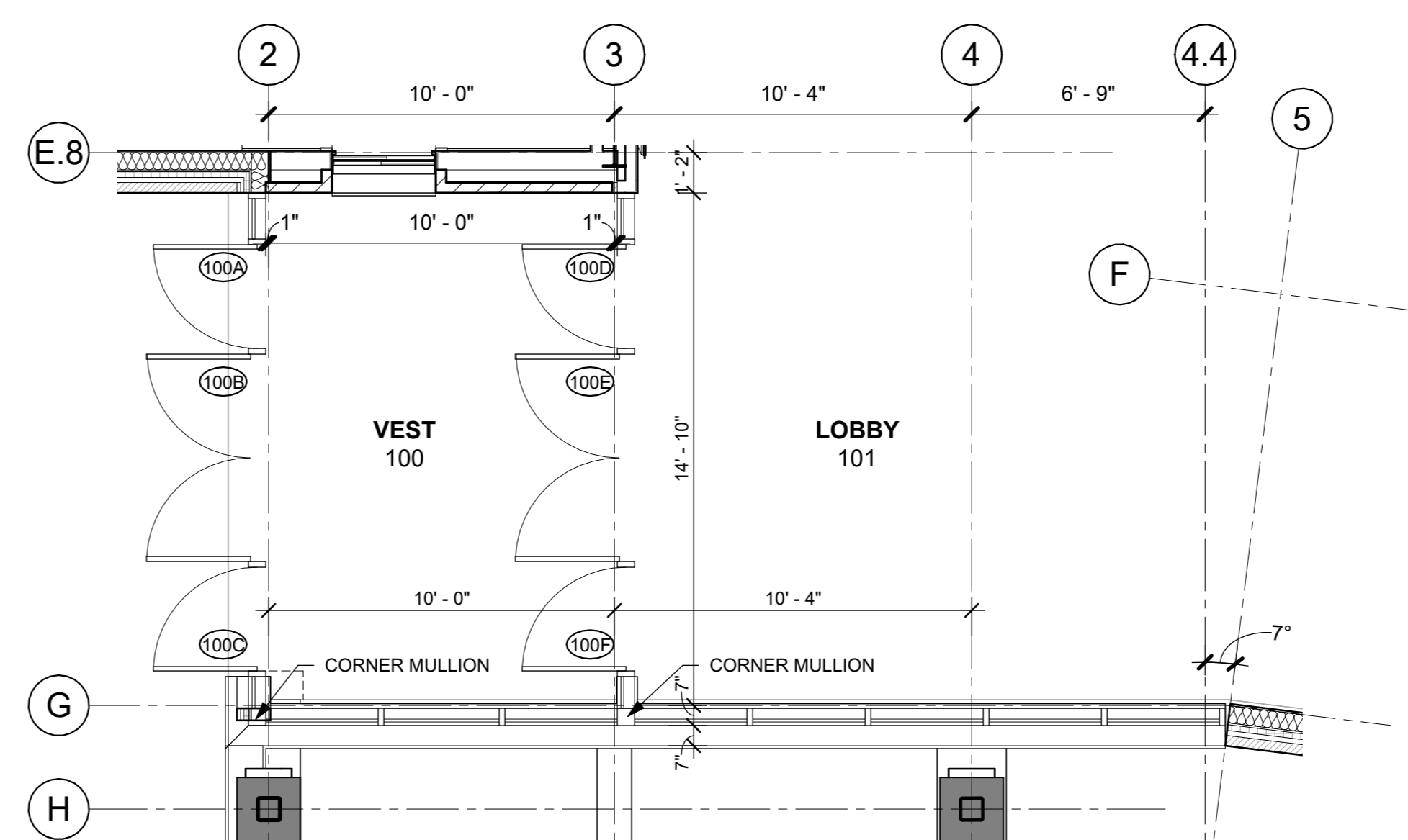
A3 FRAME TYPE - A3
1/4" = 1'-0"



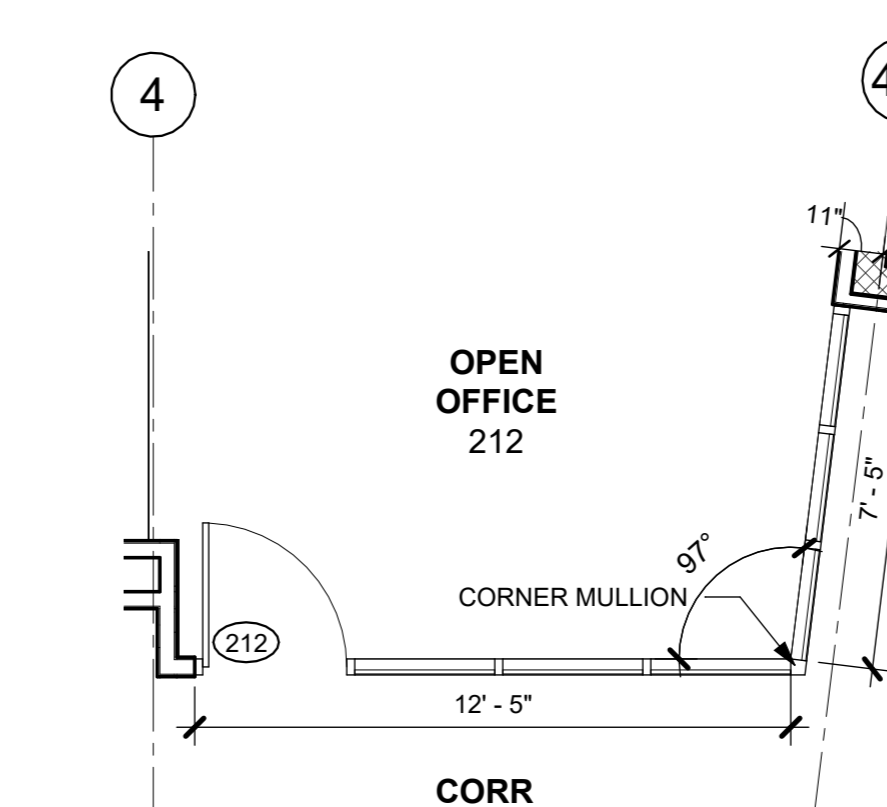
A2 FRAME TYPE - A2
1/4" = 1'-0"



A1 FRAME TYPE - A1
1/4" = 1'-0"



A MAIN OFFICE ENLARGED PLAN1
1/4" = 1'-0"



B ENLARGED PLAN @ OPEN OFFICE 212
1/4" = 1'-0"

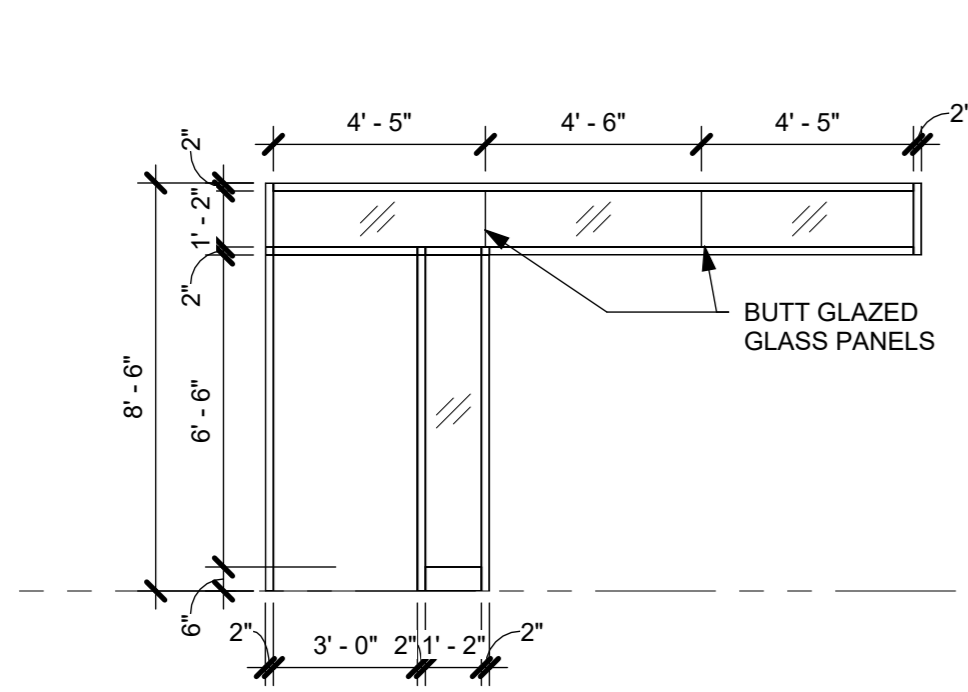
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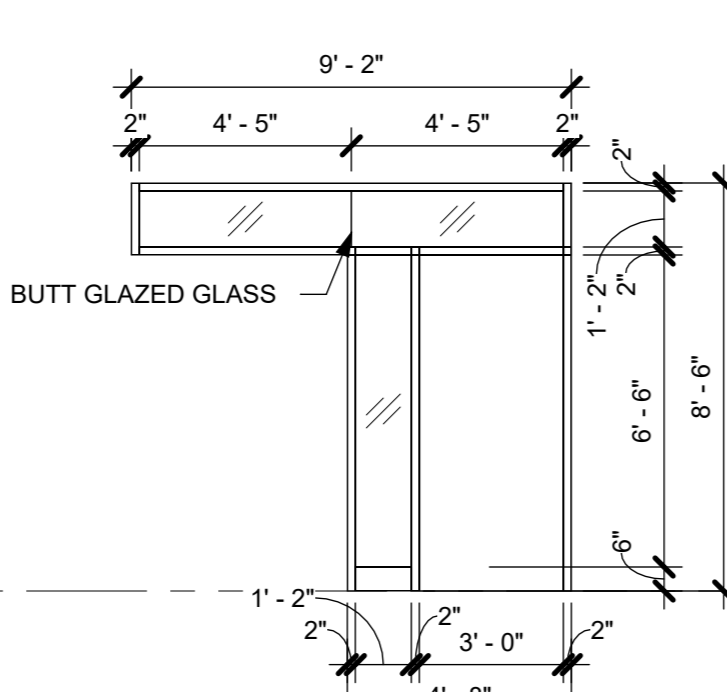
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ALUMINUM FRAME TYPES

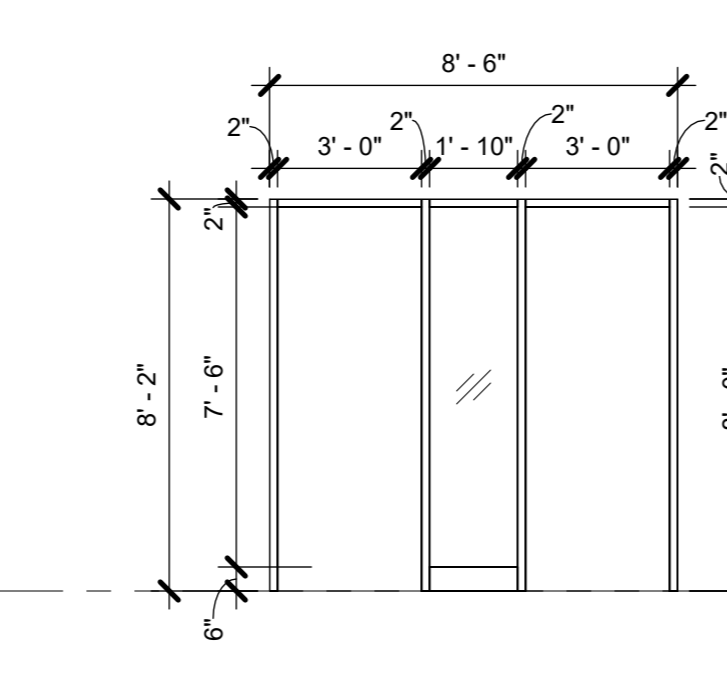
HOLLOW METAL FRAME TYPES



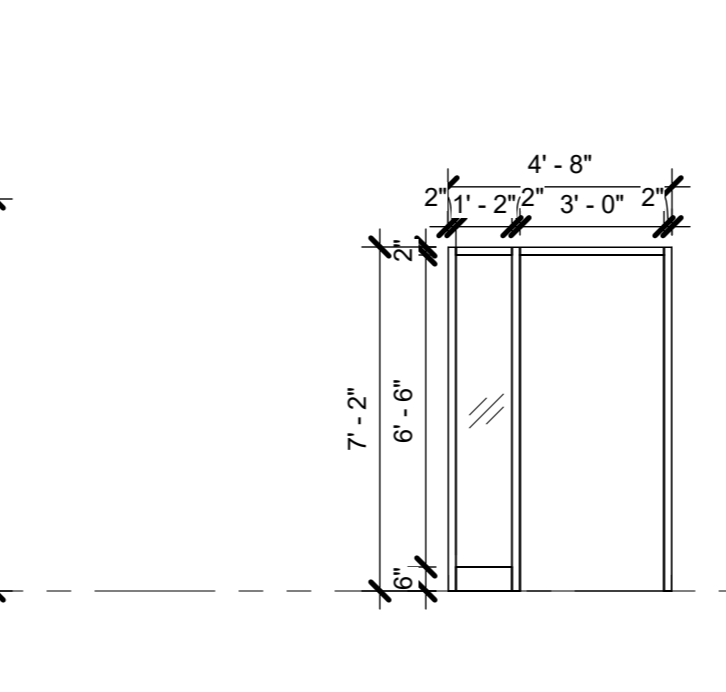
H5 FRAME TYPE - H5
1/4" = 1'-0"



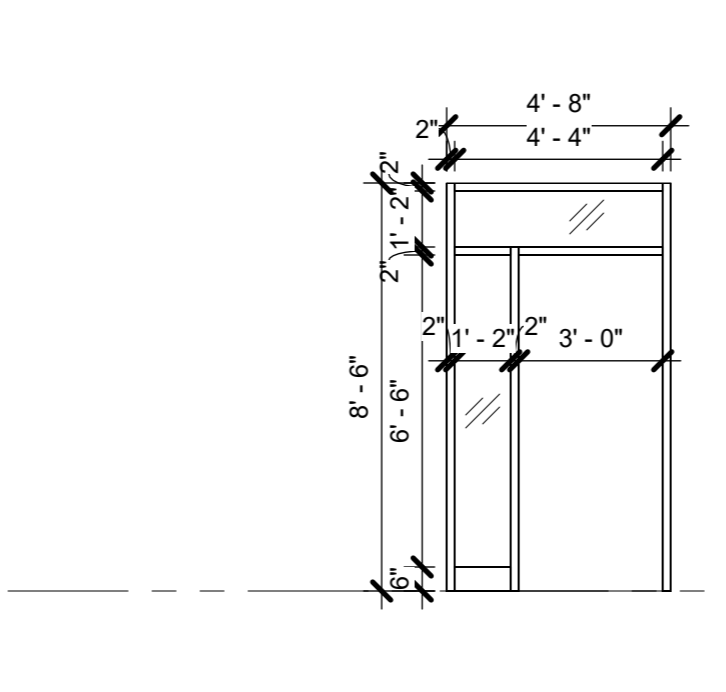
H4 FRAME TYPE - H4
1/4" = 1'-0"



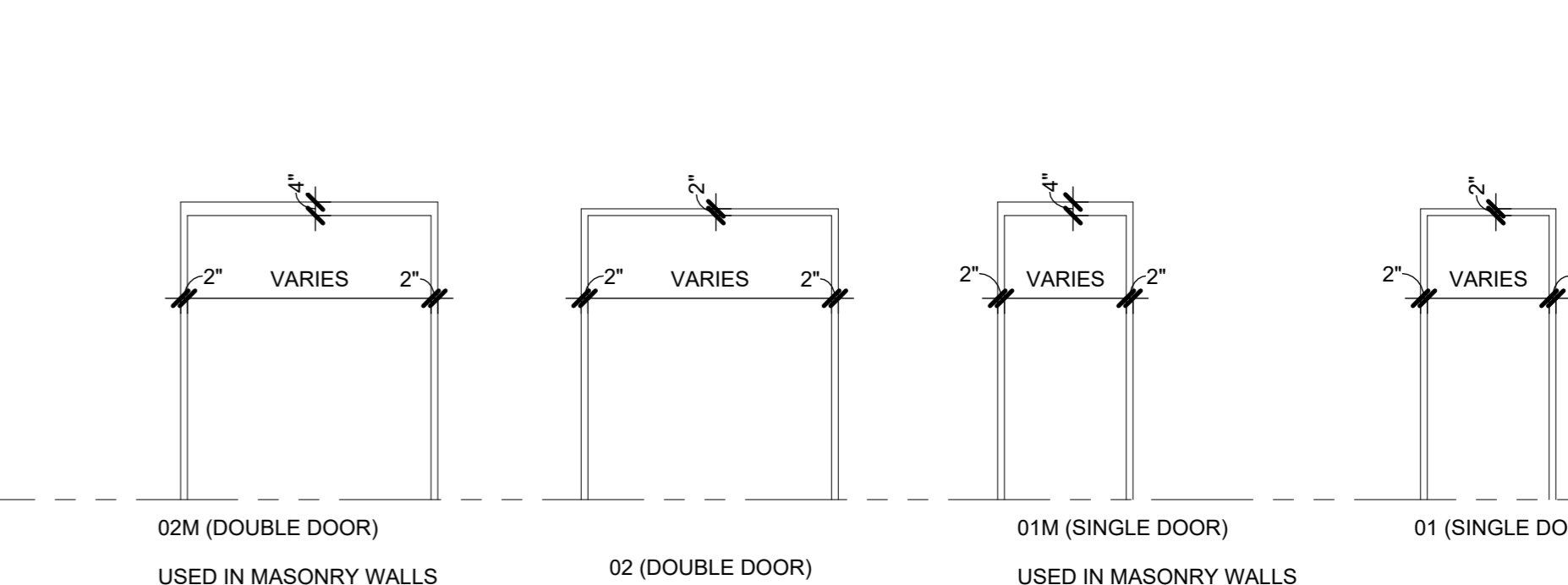
H3 FRAME TYPE - H3
1/4" = 1'-0"



H2 FRAME TYPE - H2
1/4" = 1'-0"



H1 FRAME TYPE - H1
1/4" = 1'-0"



DOOR & FRAME TYPES

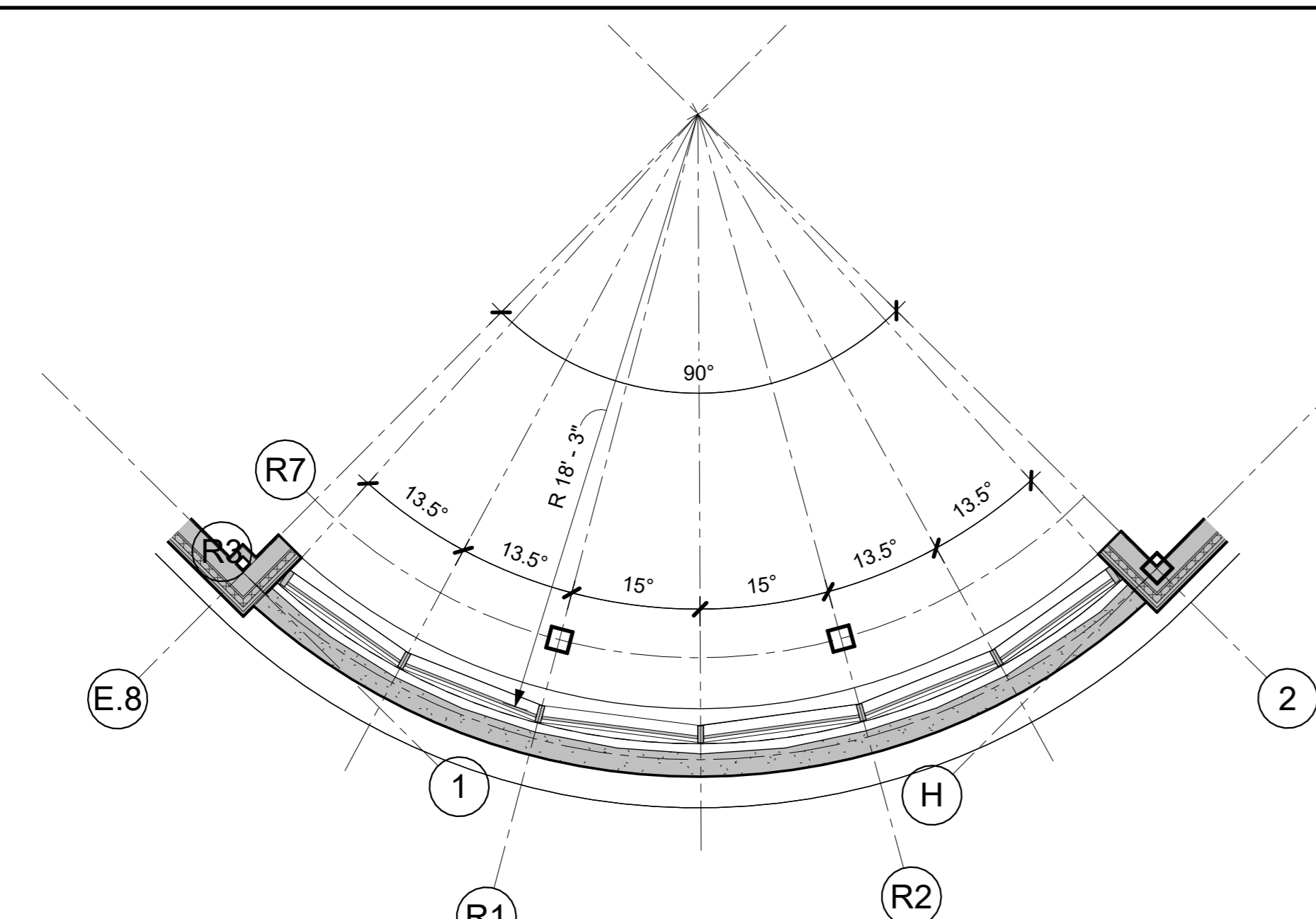
Job No.	2020-1005	Date	12/01/23
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	A912		

WINDOW GENERAL NOTES

- GLAZING IN DOORS, SIDELIGHTS & WITHIN 18" OF GRADE, FLOORS, & STAIR LANDINGS SHALL BE LAMINATED SAFETY GLASS, U.N.O. ALL GLAZING IN AREAS WHERE USE MAY CAUSE PHYSICAL ABUSE, SUCH AS GYMNASIUMS & PLAYROOMS SHALL BE SAFETY GLAZING. SAFETY GLAZING SHALL BE IDENTIFIED & LABELED AS SAFETY GLAZING.
- FIRE-RATED GLAZING ASSEMBLIES, SIZES & TYPES SHALL COMPLY W/ NFPA 80 & OR ASTM E119. FIRE-RATING OF FRAME SHALL MATCH FIRE-RATING OF GLAZING.
- PROVIDE INSECT SCREENS FOR ALL OPERABLE WINDOWS.
- SCREENS ON RESCUE WINDOWS SHALL BE HINGED & SHALL BE OPERABLE FROM THE INSIDE WITH ONE HAND & WITHOUT THE USE OF A KEY OR OTHER DEVICE.
- AT INTERIOR AREAS BEHIND SPANDREL PANELS PROVIDE FRAMING, INSULATION & FINISH MATERIAL TO MATCH ADJACENT WALLS.
- FRAME(S) SHALL MEET FIRE RATING OF WALL ASSEMBLY, U.N.O.
- G.C. SHALL PROVIDE LOUVERS & COORDINATE FREE AREA REQUIRED.
- EXTERIOR LOUVERS SHALL BE 4" DEEP (MIN) ALUMINUM HORIZONTAL BLADE, STORM-PROOF, DRAINABLE, W/ 50% FREE AREA (MIN) FINISHED IN PREMIUM (KYNAR) METALLIC (OR CUSTOM) COLOR SELECTED BY ARCHITECT, W/ BIRD SCREEN, U.N.O. UNUSED PORTIONS OF LOUVERS SHALL BE BLANKED-OFF W/ BLACK PTD SHEETMETAL & INSULATED.

GLAZING LEGEND & TYPES

INTERIOR			
KEY	TYPES	USE	DESCRIPTION / BASIS-OF-DESIGN
[Symbol]	WHERE NO TYPE IS INDICATED	GENERAL	CLEAR FLOAT GLASS - SAFETY GLASS WHERE NOTED &/OR SPECIFIED
[Symbol]	FP-RATING	FIRE PROTECTION - RATING AS INDICATED	CLEAR LAMINATED CERAMIC GLASS - MEETS FIRE DOOR CRITERIA & HOSE STREAM TEST PER NFPA 252 (FIRELITE PLUS PREMIUM)
[Symbol]	FR-RATING	FIRE RESISTANCE - RATING AS INDICATED	CLEAR LAMINATED CERAMIC GLASS - MEETS WALL ASSEMBLY & 450° TEMP RISE CRITERIA PER ASTM E119 & NFPA 252 (PILKINGTON PYROSTOP)
[Symbol]	SG-1	SECURITY GLASS	CLEAR CUSTOM SECURITY LAMINATED GLASS (SCHOOL GUARD SG4)
EXTERIOR			
KEY	TYPES	USE	DESCRIPTION / BASIS-OF-DESIGN
[Symbol]		GENERAL	INSULATED CLEAR ANNEALED GLASS W/ LOW-E (SOLARBAN 70) - USE HEAT-STRENGTHENED, LAMINATED, &/OR TEMPERED AS NOTED &/OR SPECIFIED
[Symbol]		SPANDREL	INSULATED CLEAR HEAT-STRENGTHENED GLASS W/ LOW-E (SOLARBAN 70) & SPANDREL COATING AS SPECIFIED
[Symbol]	SG-4	SECURITY GLASS	INSULATED CLEAR CUSTOM SECURITY LAMINATED GLASS W/ LOW-E (SCHOOL GUARD SG4 IGU W/ SOLARBAN 70)

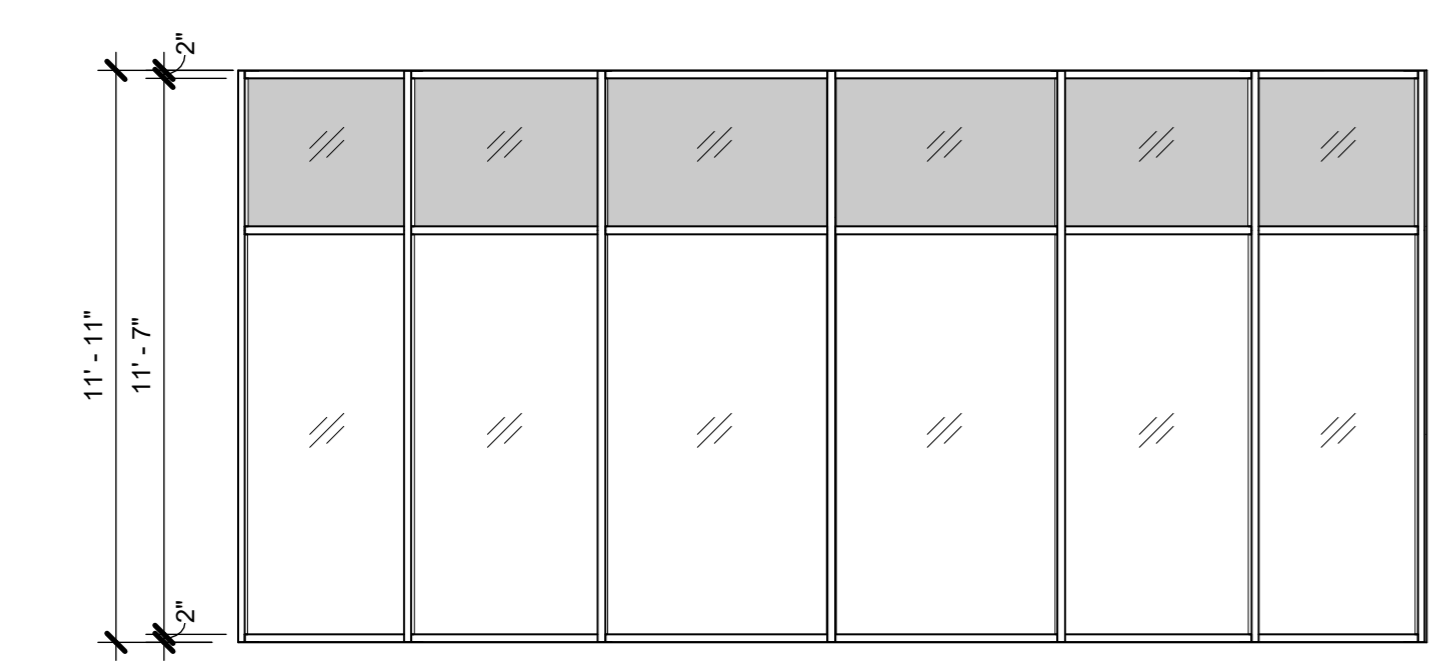


1 ENLARGED WINDOW PLAN
1/4" = 1'-0"

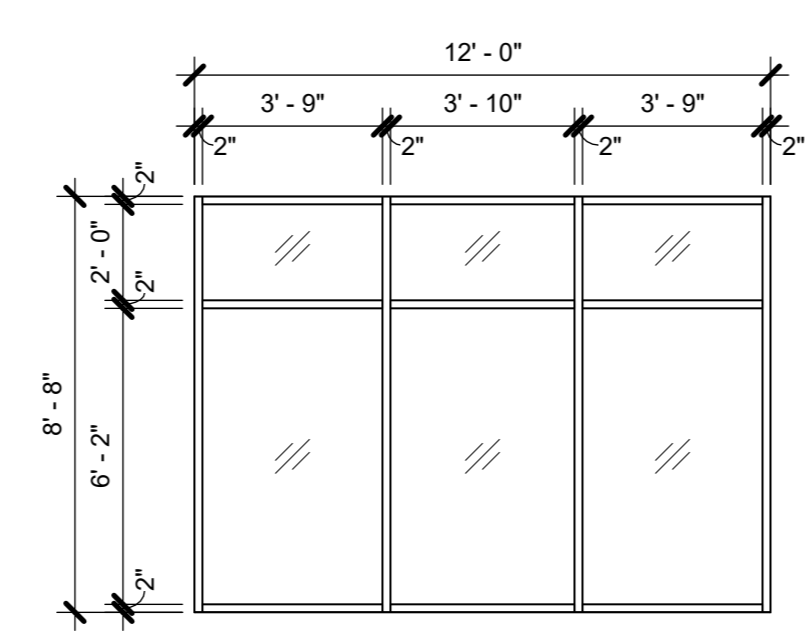
2H WINDOW TYPE 2H
1/4" = 1'-0"

2F WINDOW TYPE 2F
1/4" = 1'-0"

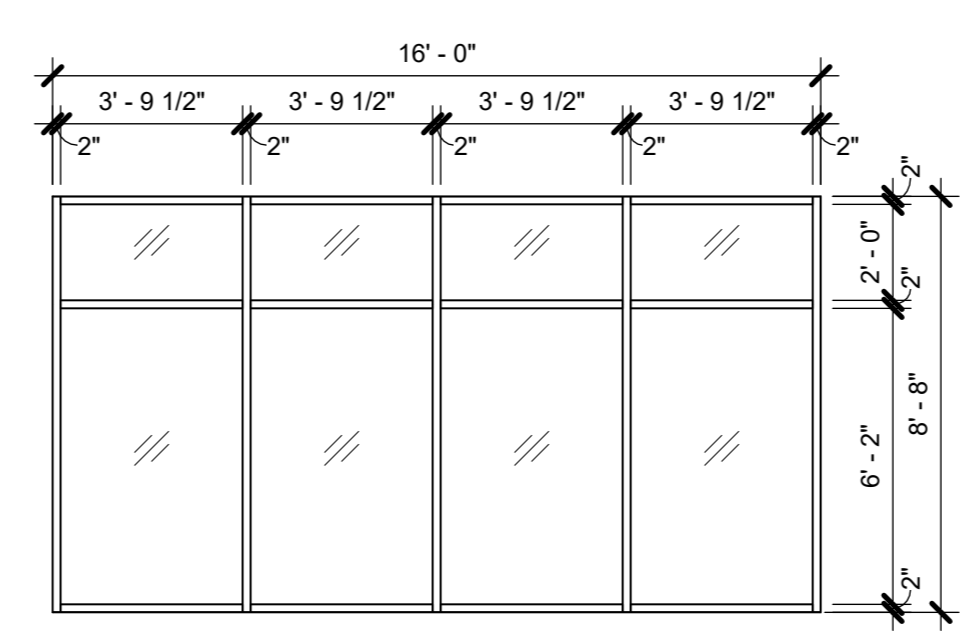
2E WINDOW TYPE 2E
1/4" = 1'-0"



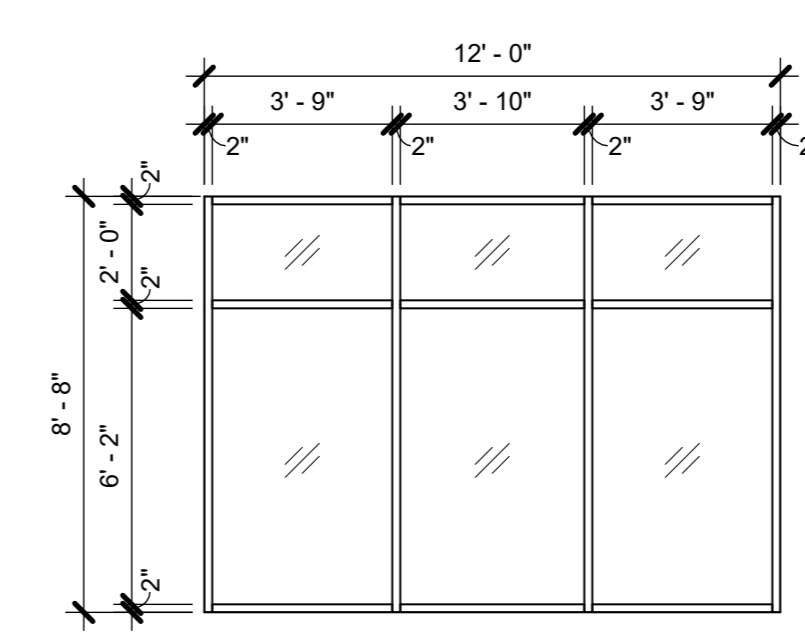
2G WINDOW TYPE 2G
1/4" = 1'-0"



2C WINDOW TYPE 2C
1/4" = 1'-0"

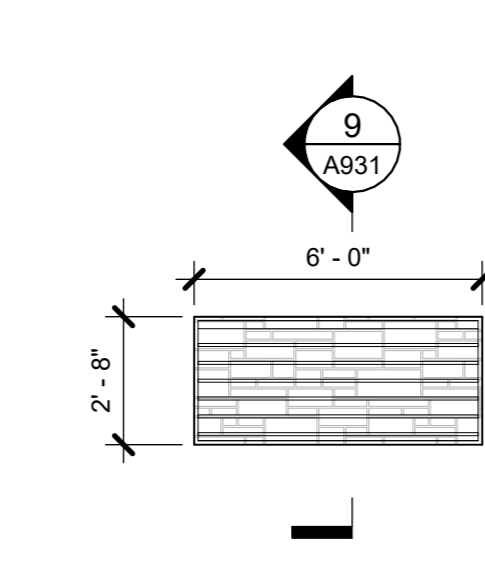


2B WINDOW TYPE 2B
1/4" = 1'-0"

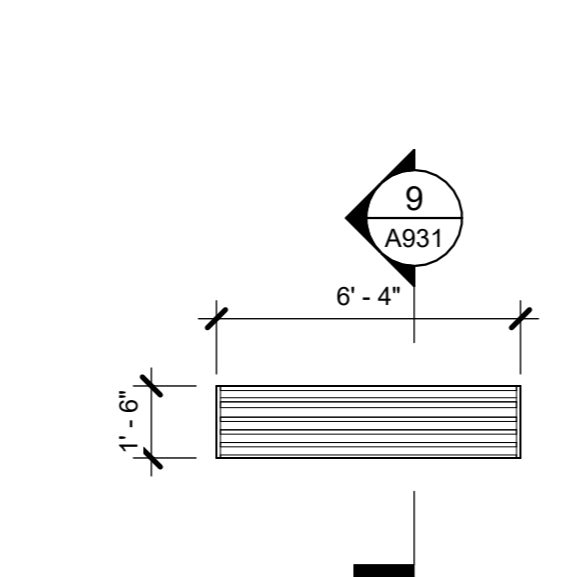


2A WINDOW TYPE 2A
1/4" = 1'-0"

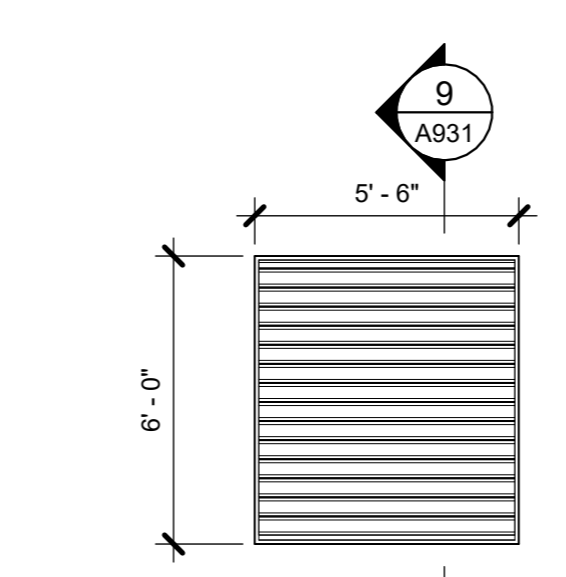
2nd FLOOR EXTERIOR GLAZING



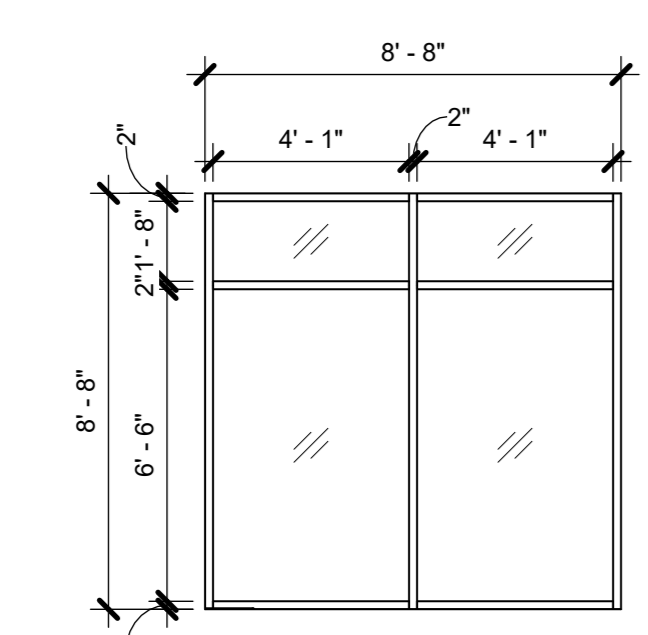
L3 ALUM LOUVER
1/4" = 1'-0"



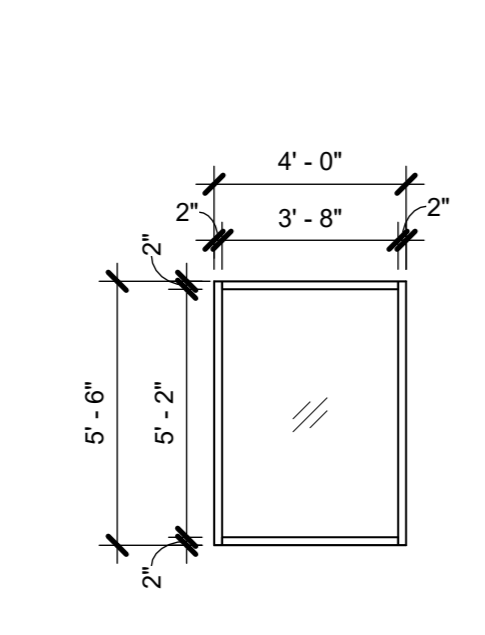
L2 ALUM LOUVER
1/4" = 1'-0"



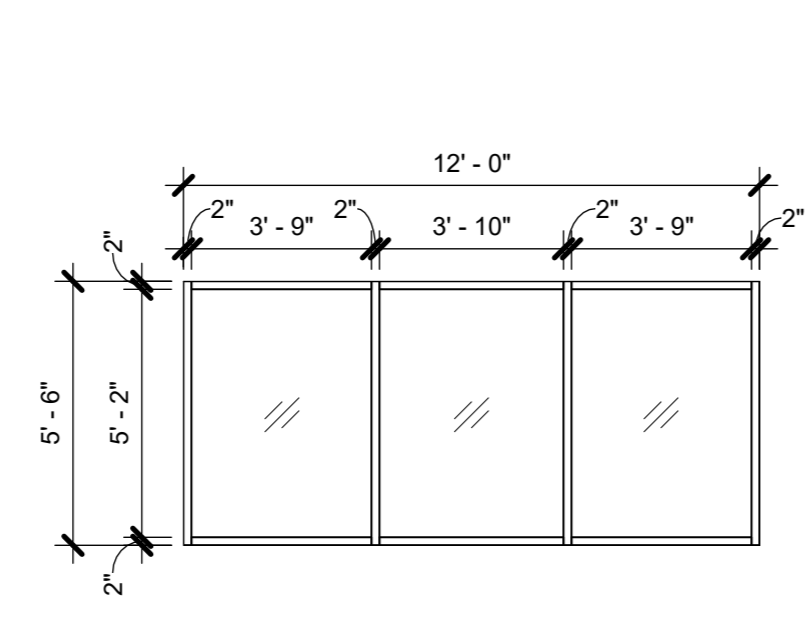
L1 ALUM LOUVER
1/4" = 1'-0"



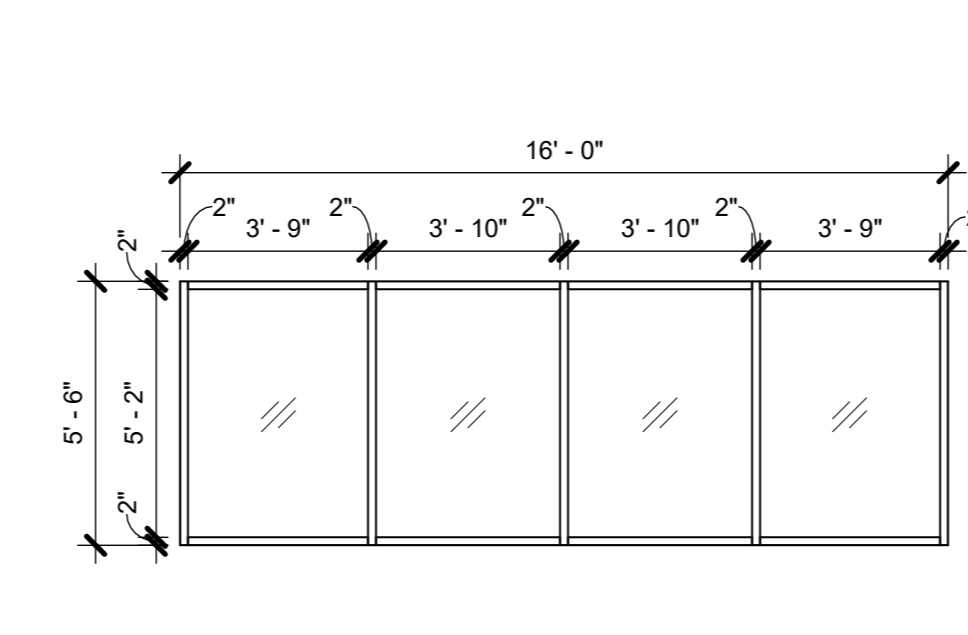
1G WINDOW TYPE 1G
1/4" = 1'-0"



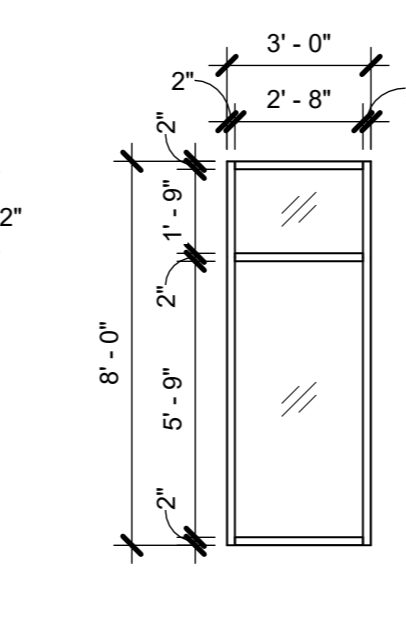
1F WINDOW TYPE 1F
1/4" = 1'-0"



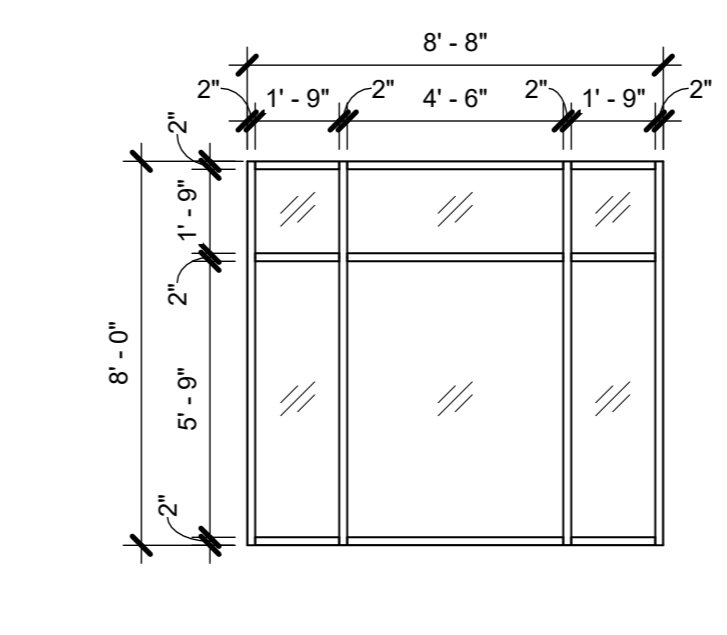
1E WINDOW TYPE 1E
1/4" = 1'-0"



1D WINDOW TYPE 1D
1/4" = 1'-0"

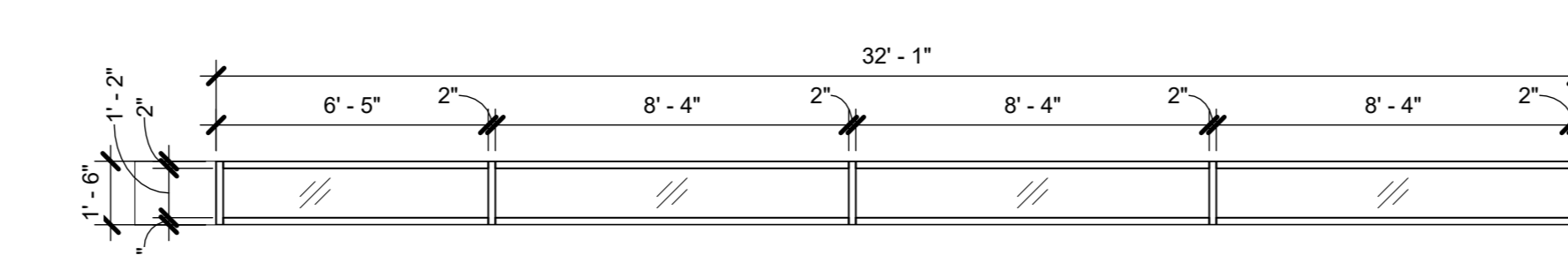


1B WINDOW TYPE 1B
1/4" = 1'-0"

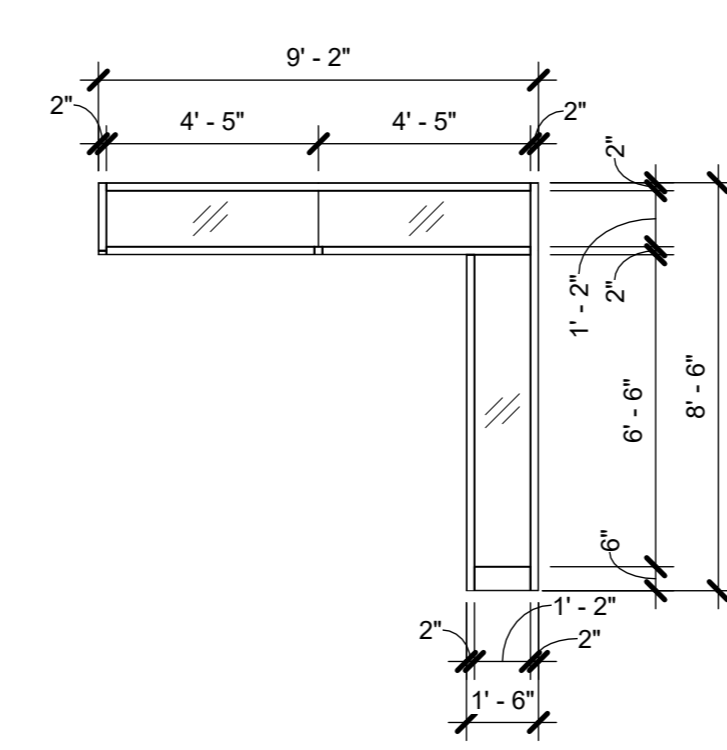


1A WINDOW TYPE 1A
1/4" = 1'-0"

1st FLOOR EXTERIOR GLAZING

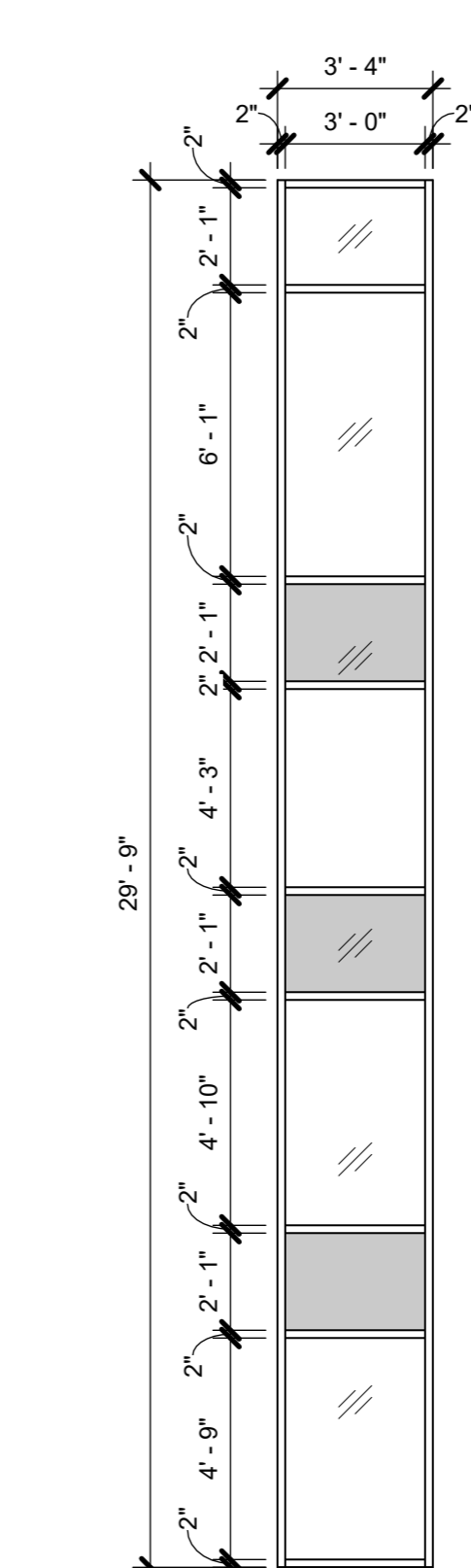


1R WINDOW TYPE 1R
1/4" = 1'-0"

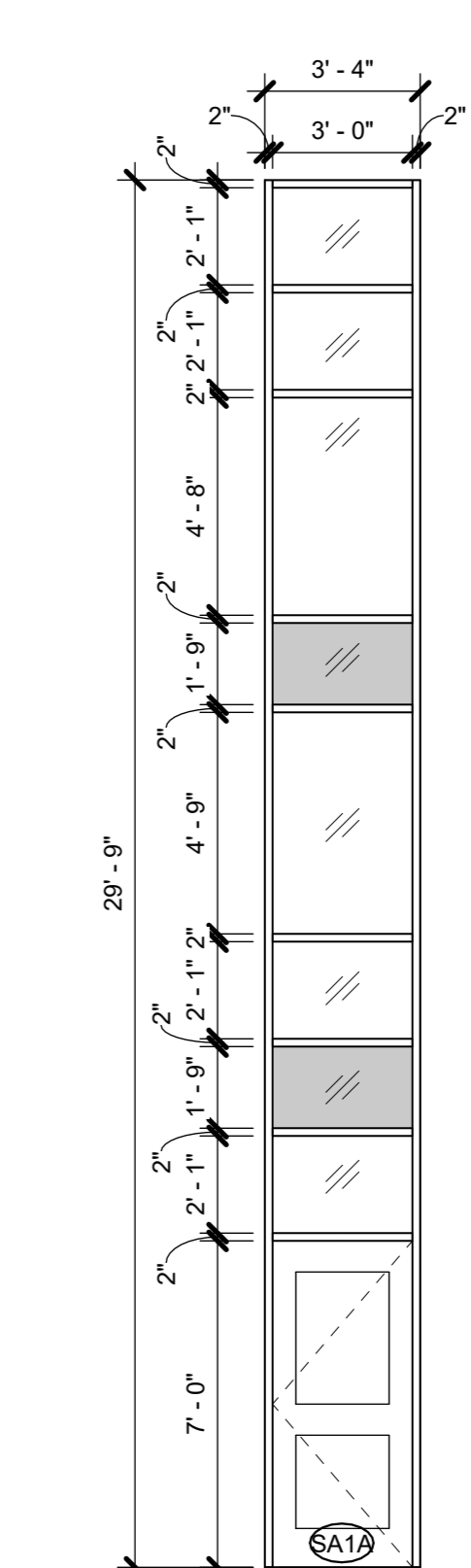


1P WINDOW TYPE 1P
1/4" = 1'-0"

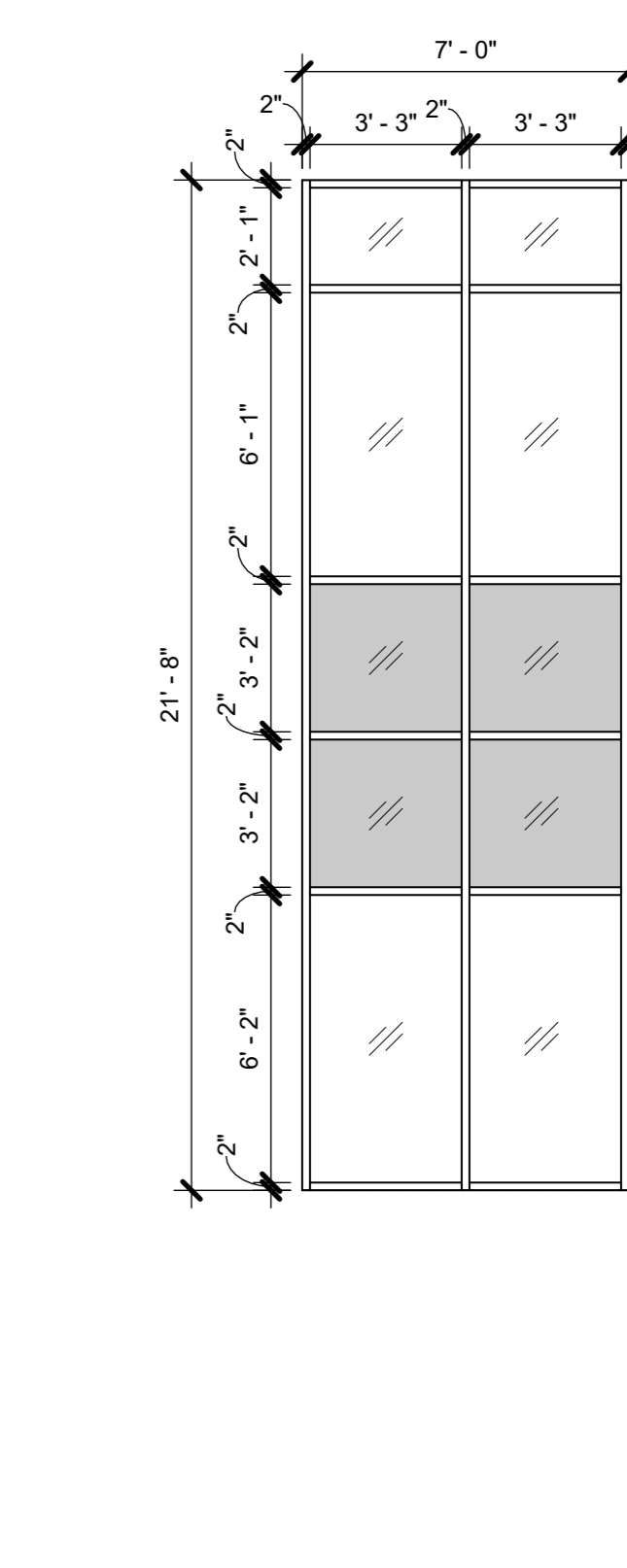
1st FLOOR INTERIOR GLAZING (HOLLOW METAL)



1Z WINDOW TYPE 1Z
1/4" = 1'-0"



1Y WINDOW TYPE 1Y
1/4" = 1'-0"



1X WINDOW TYPE 1X
1/4" = 1'-0"

MULTI-STORY EXTERIOR ALUMINUM CURTAIN WALL ASSEMBLIES

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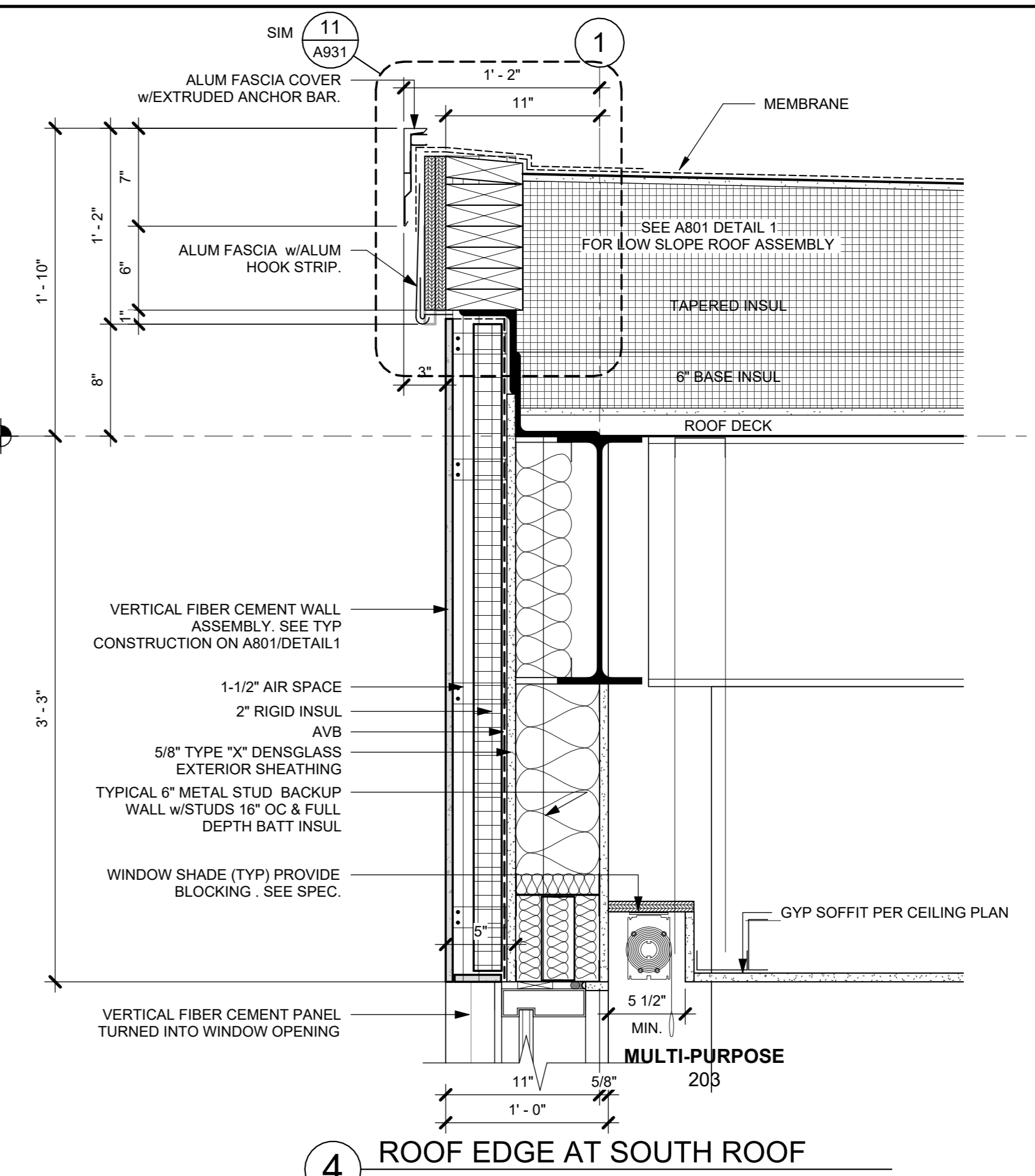
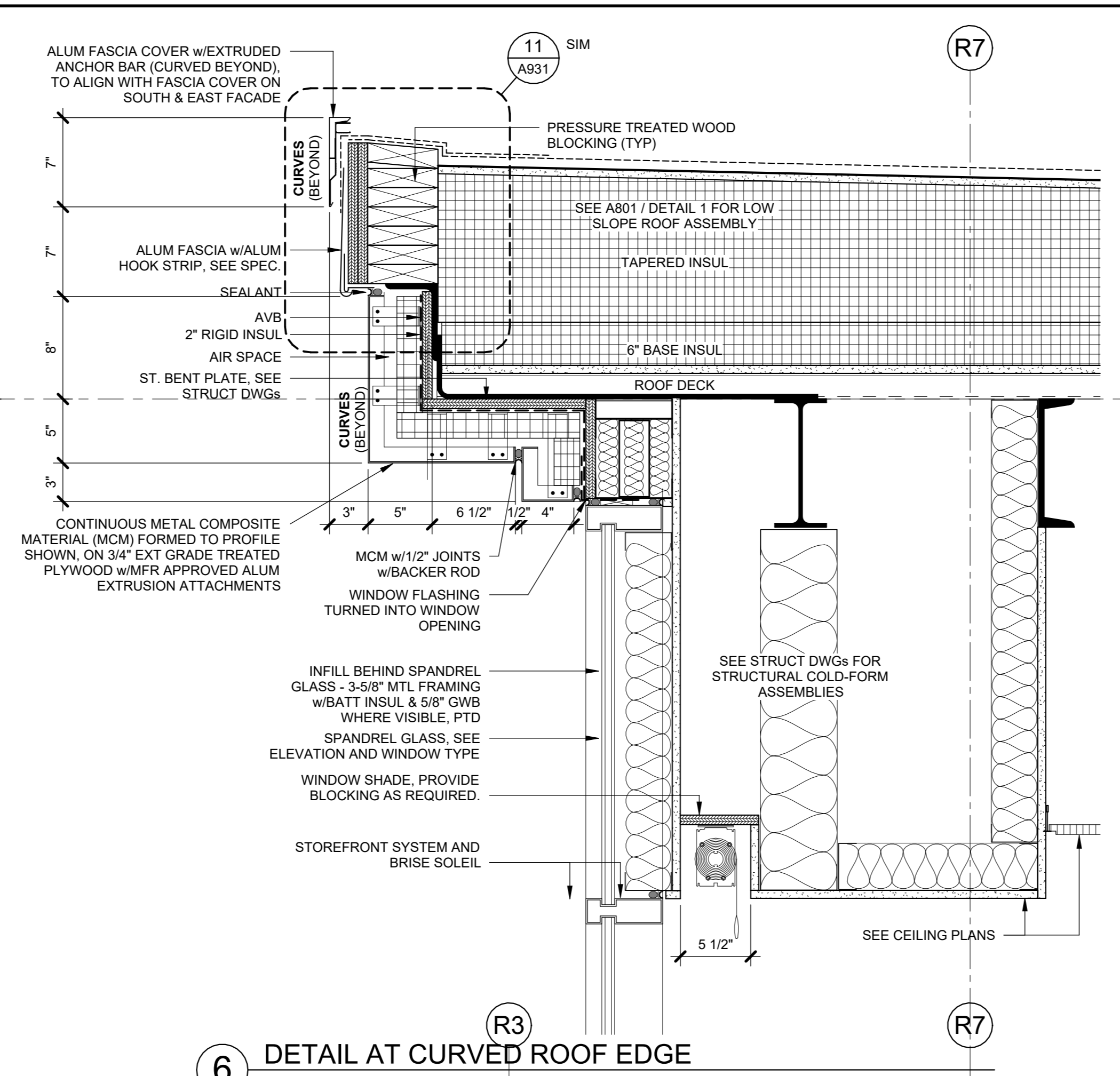
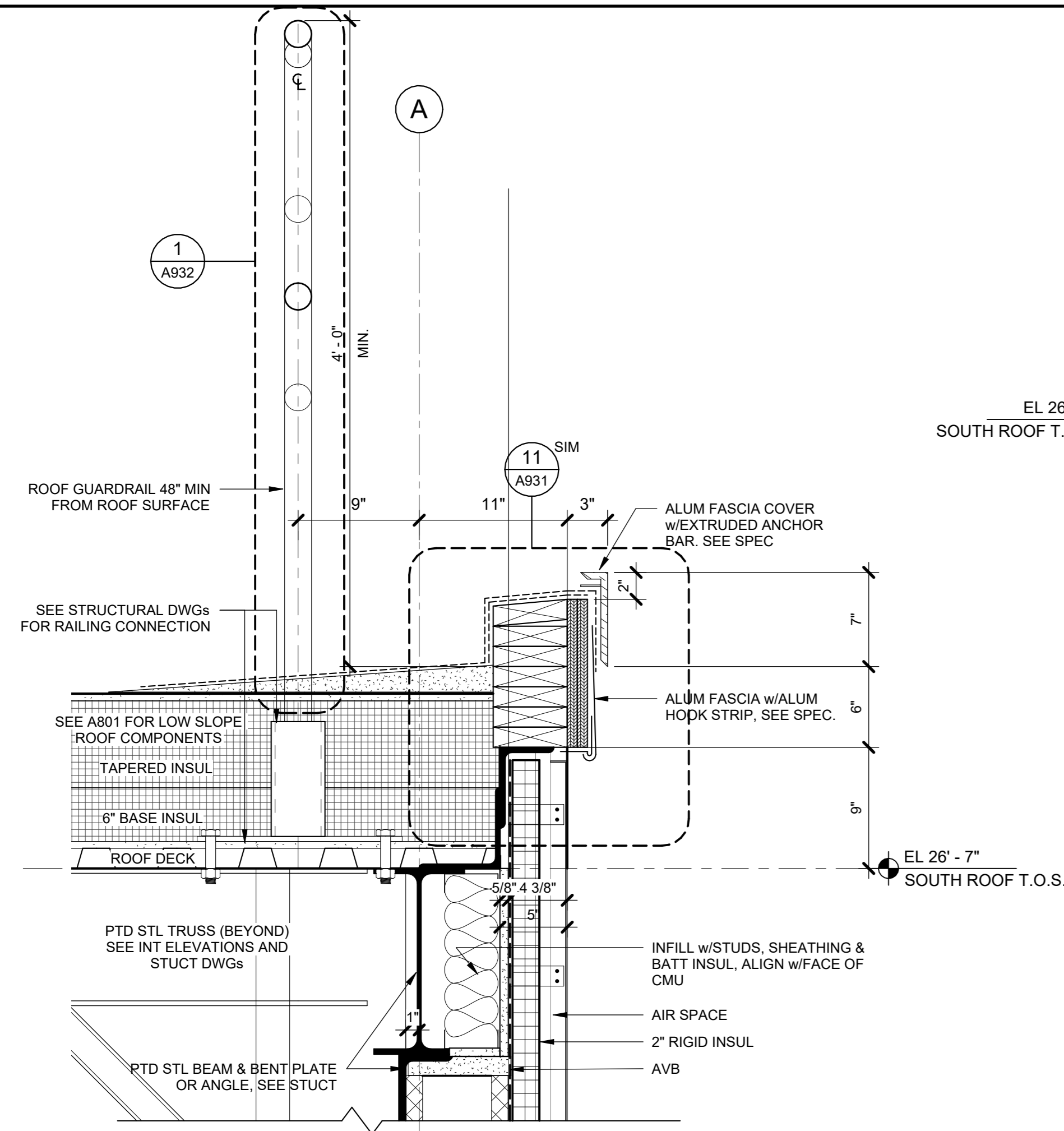
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7	10/09/2024	CONFORMED SET
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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

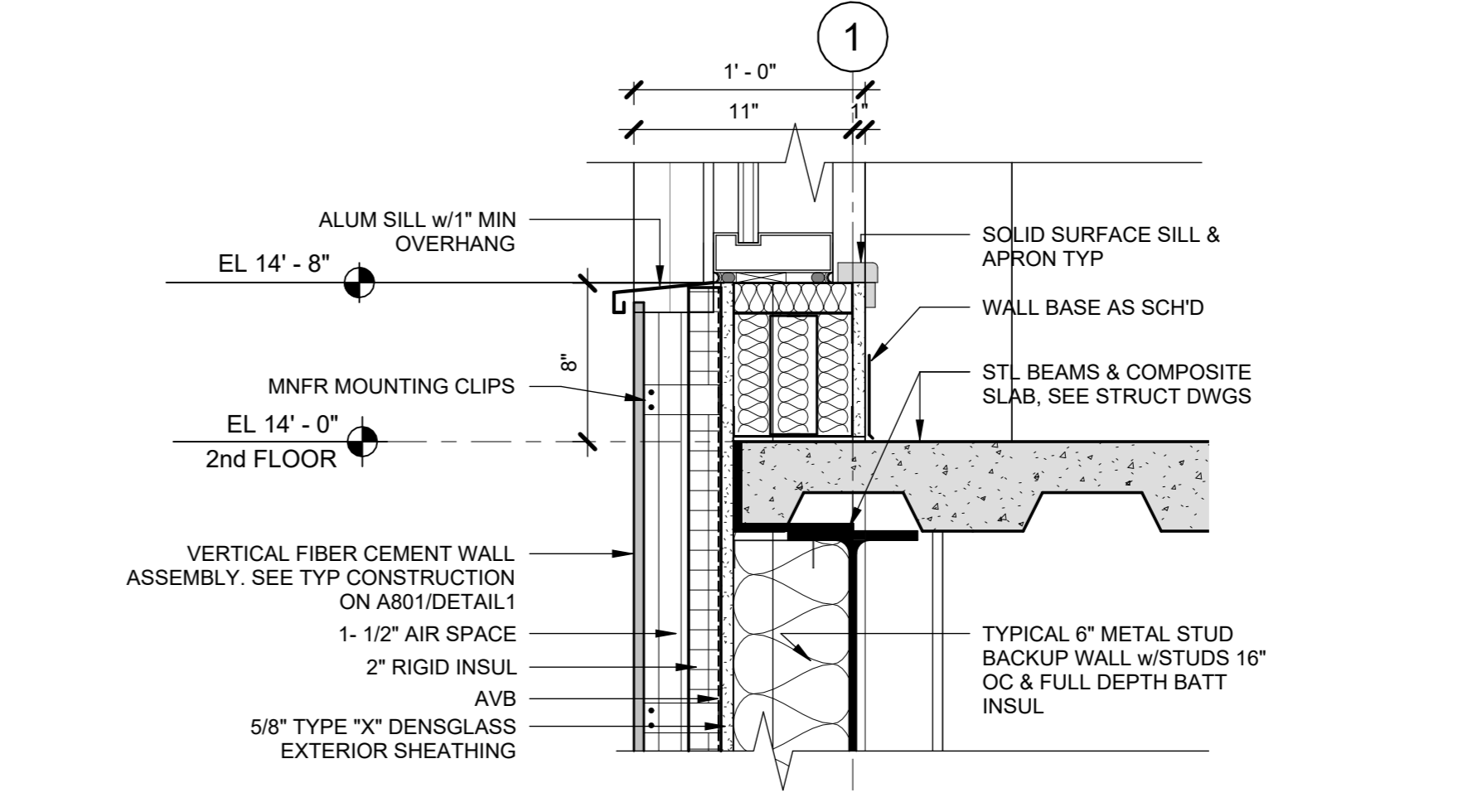
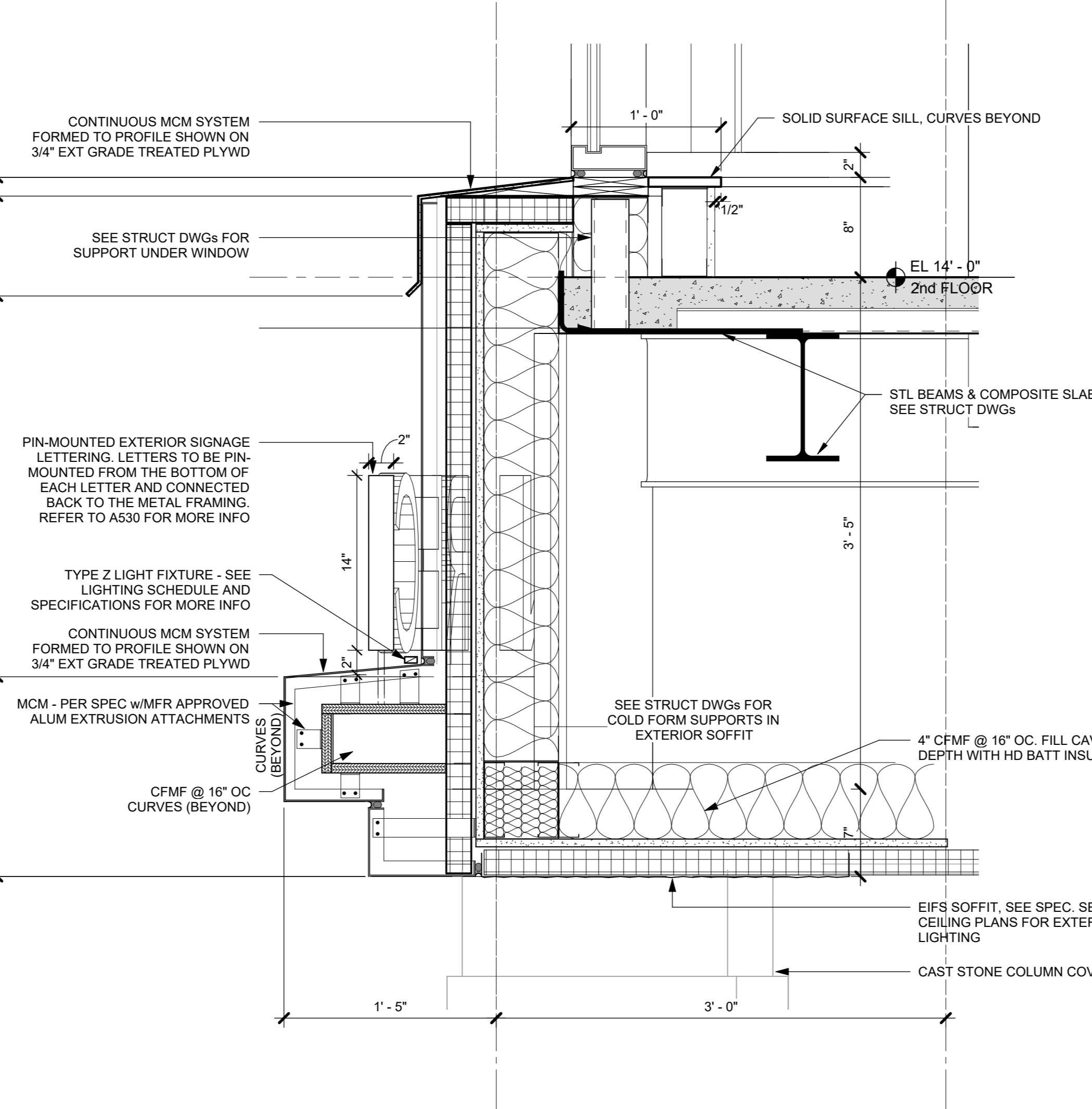
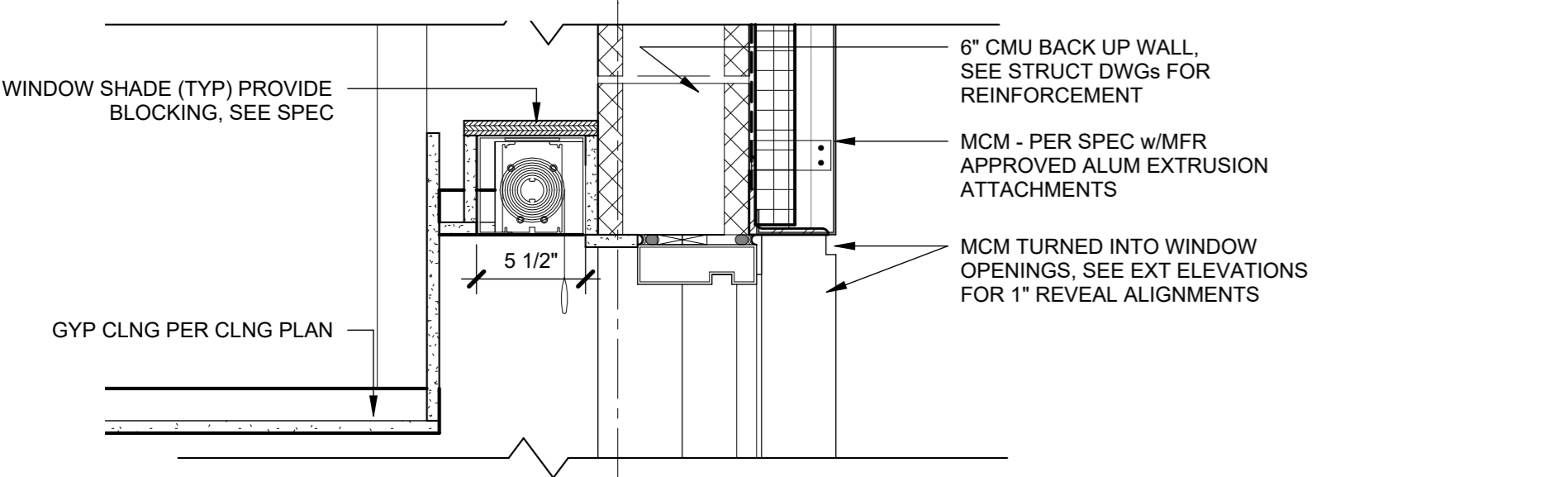
WINDOW TYPES

Job No.	Date
2020-1005	06/01/2020
Scale	Drawn / Checked
AS NOTED	- - -
Sheet Number	

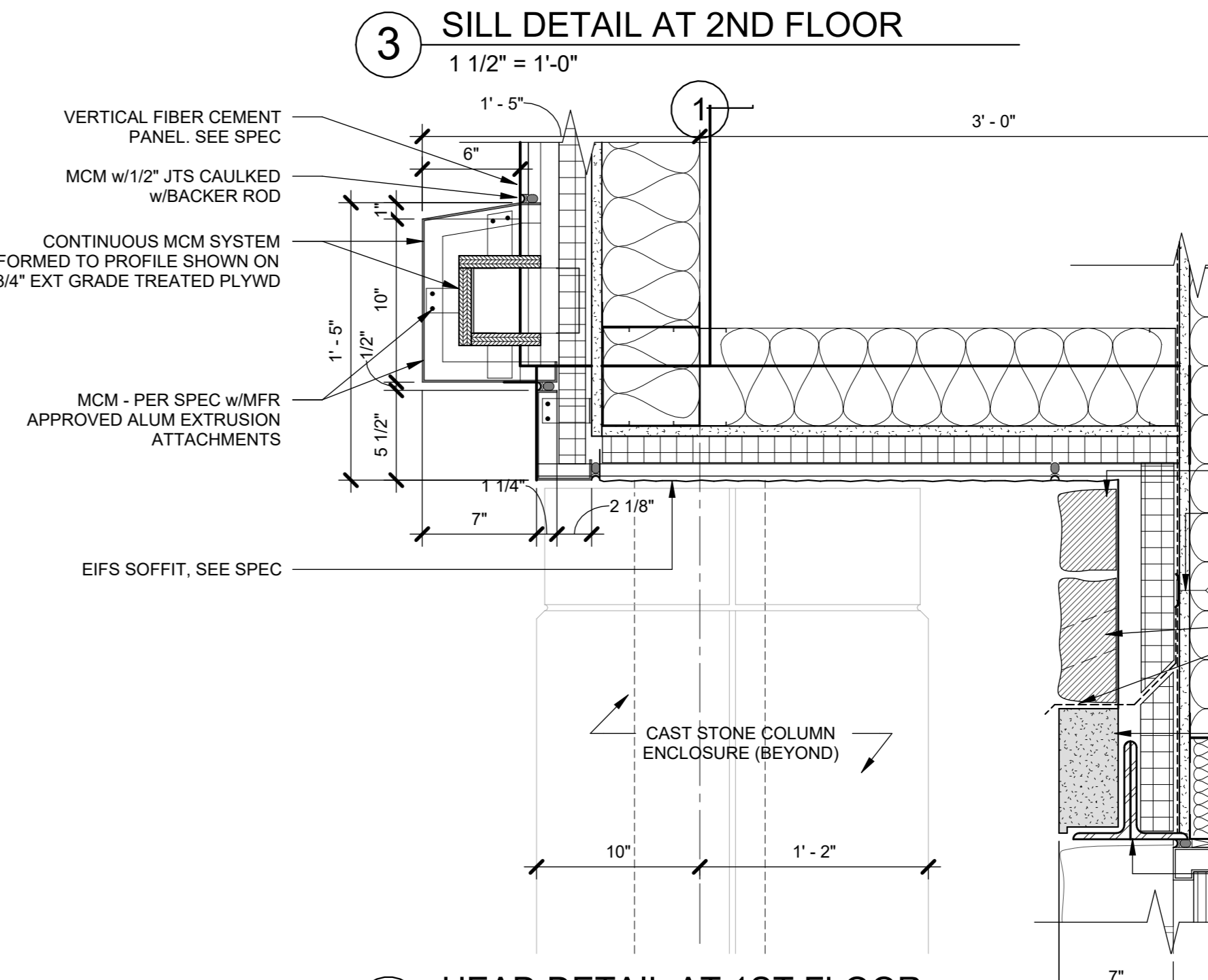
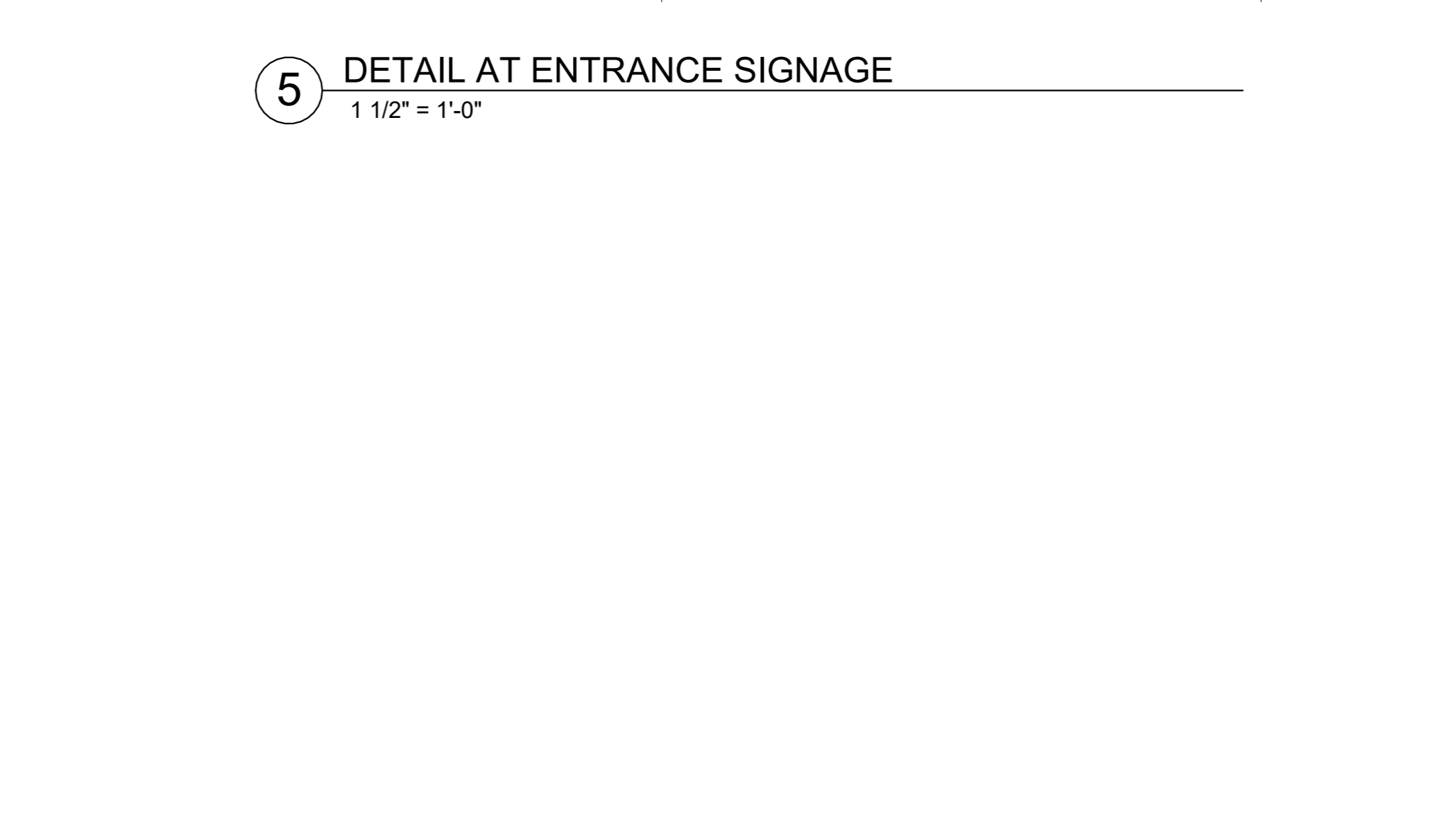
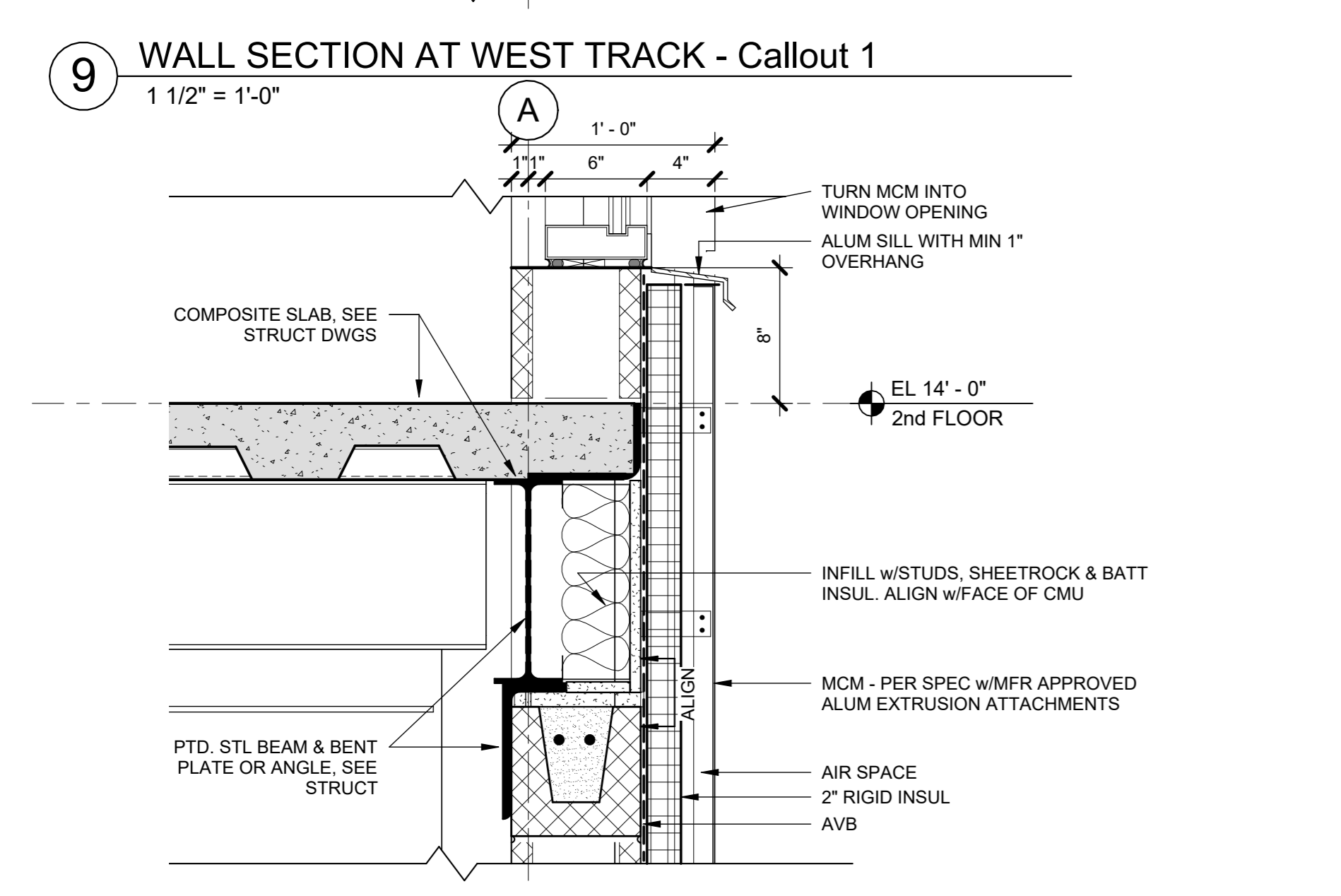


6 DETAIL AT CURVED ROOF EDGE
1 1/2" = 1'-0"

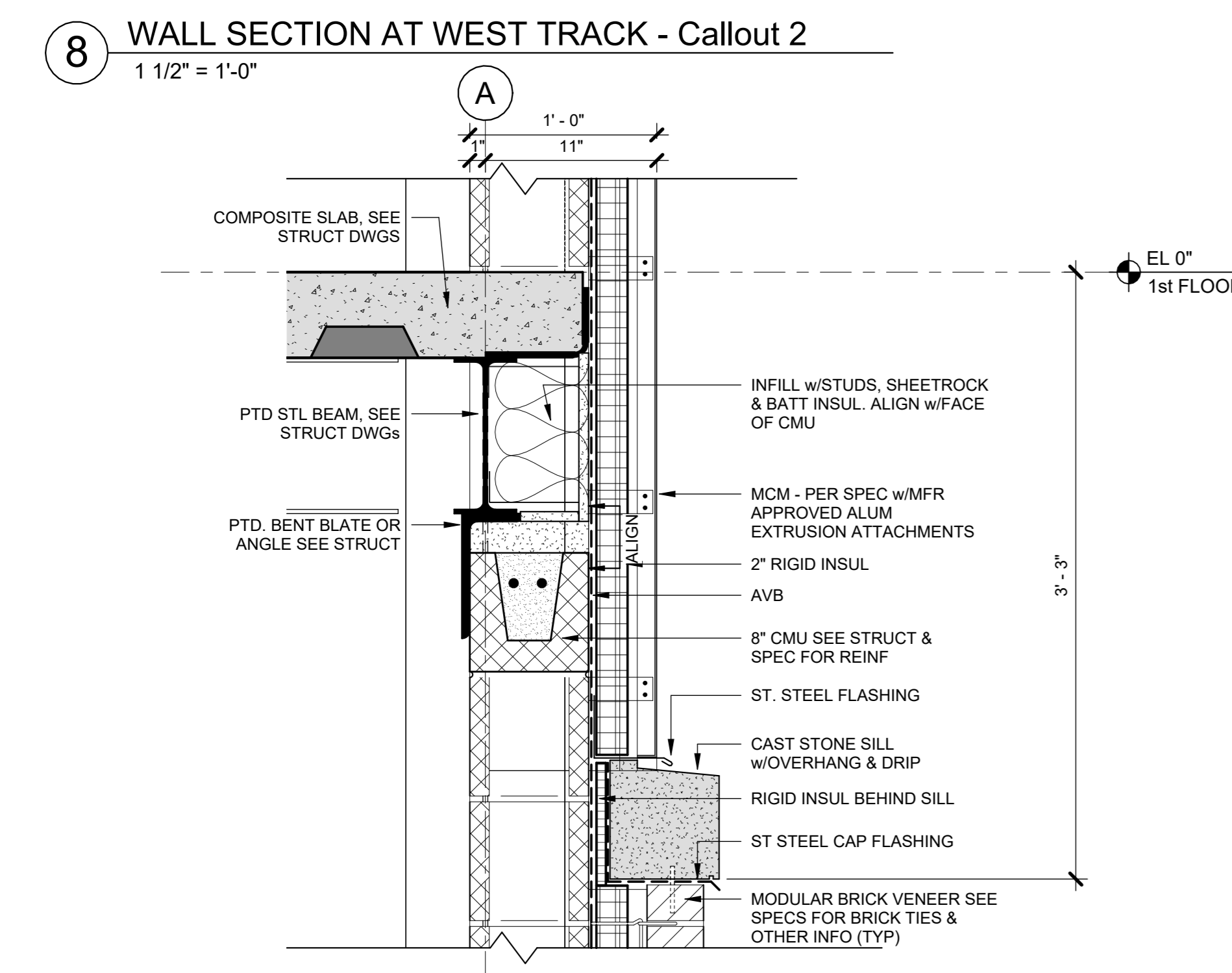
4 ROOF EDGE AT SOUTH ROOF
1 1/2" = 1'-0"



3 SILL DETAIL AT 2ND FLOOR
1 1/2" = 1'-0"



2 HEAD DETAIL AT 1ST FLOOR
1 1/2" = 1'-0"



1 SILL DETAIL AT 1ST FLOOR
1 1/2" = 1'-0"

7 WALL SECTION AT WEST TRACK - Callout 3
1 1/2" = 1'-0"

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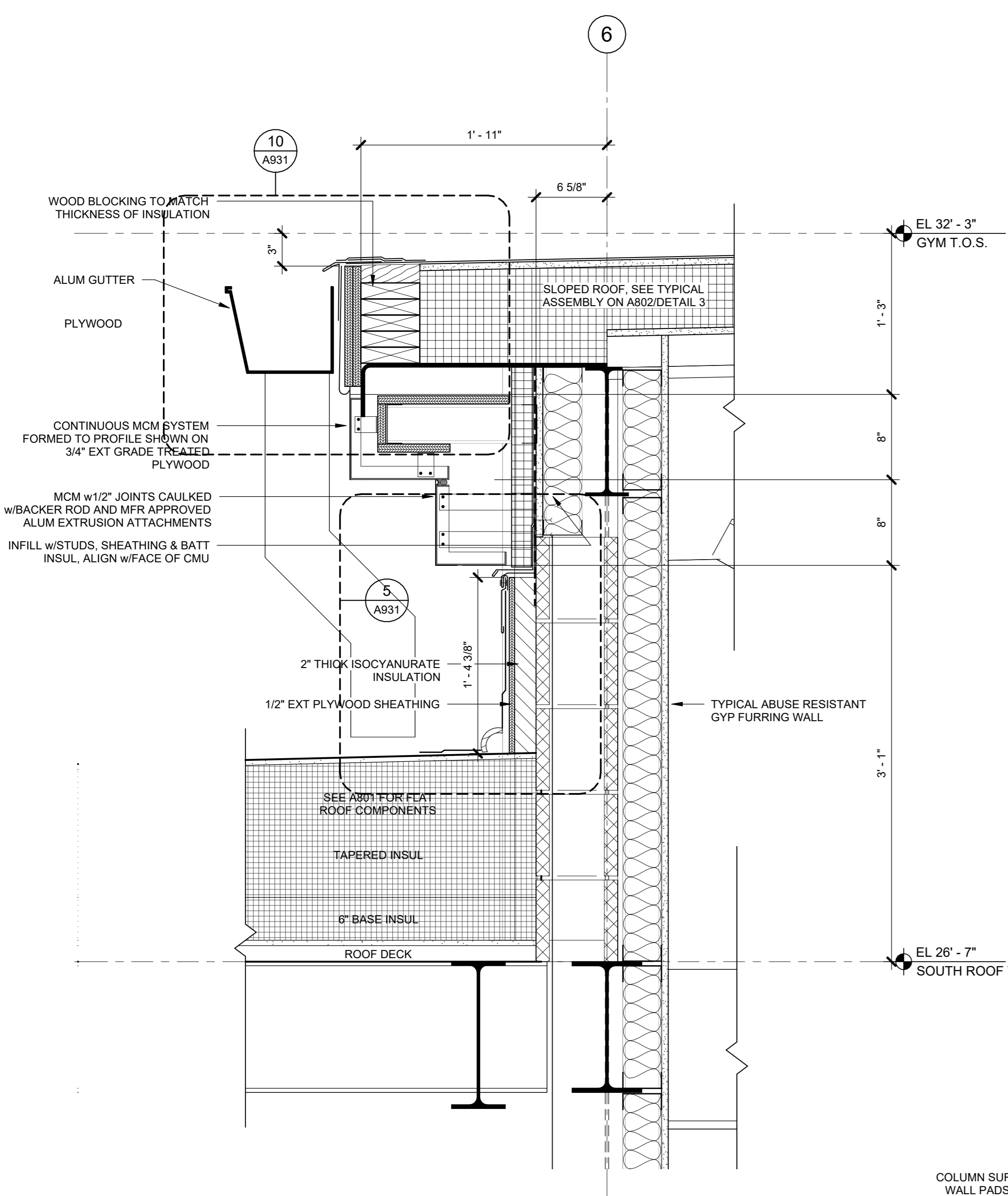
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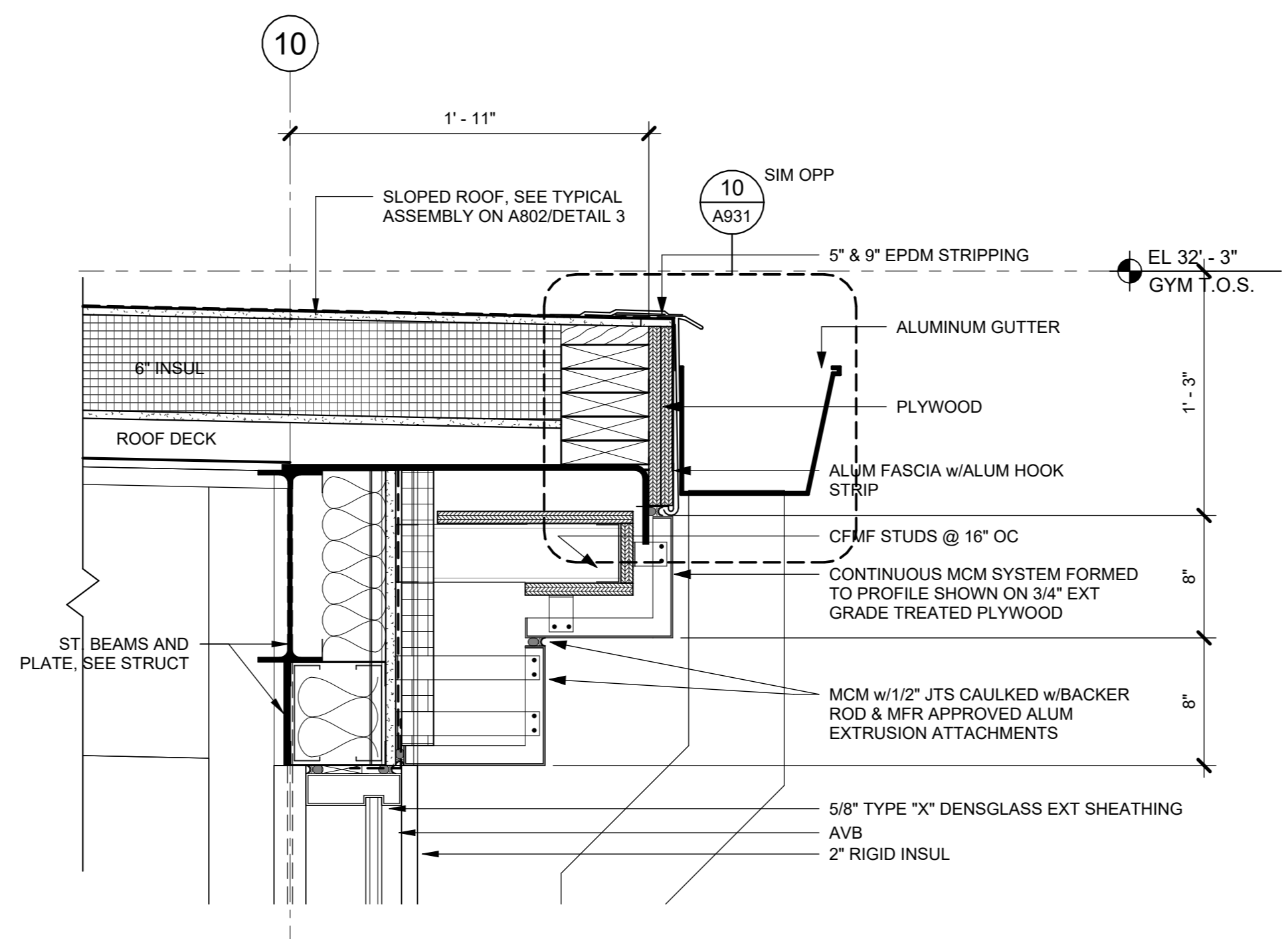
Professional Seal

7	10/09/2024	CONFORMED SET
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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

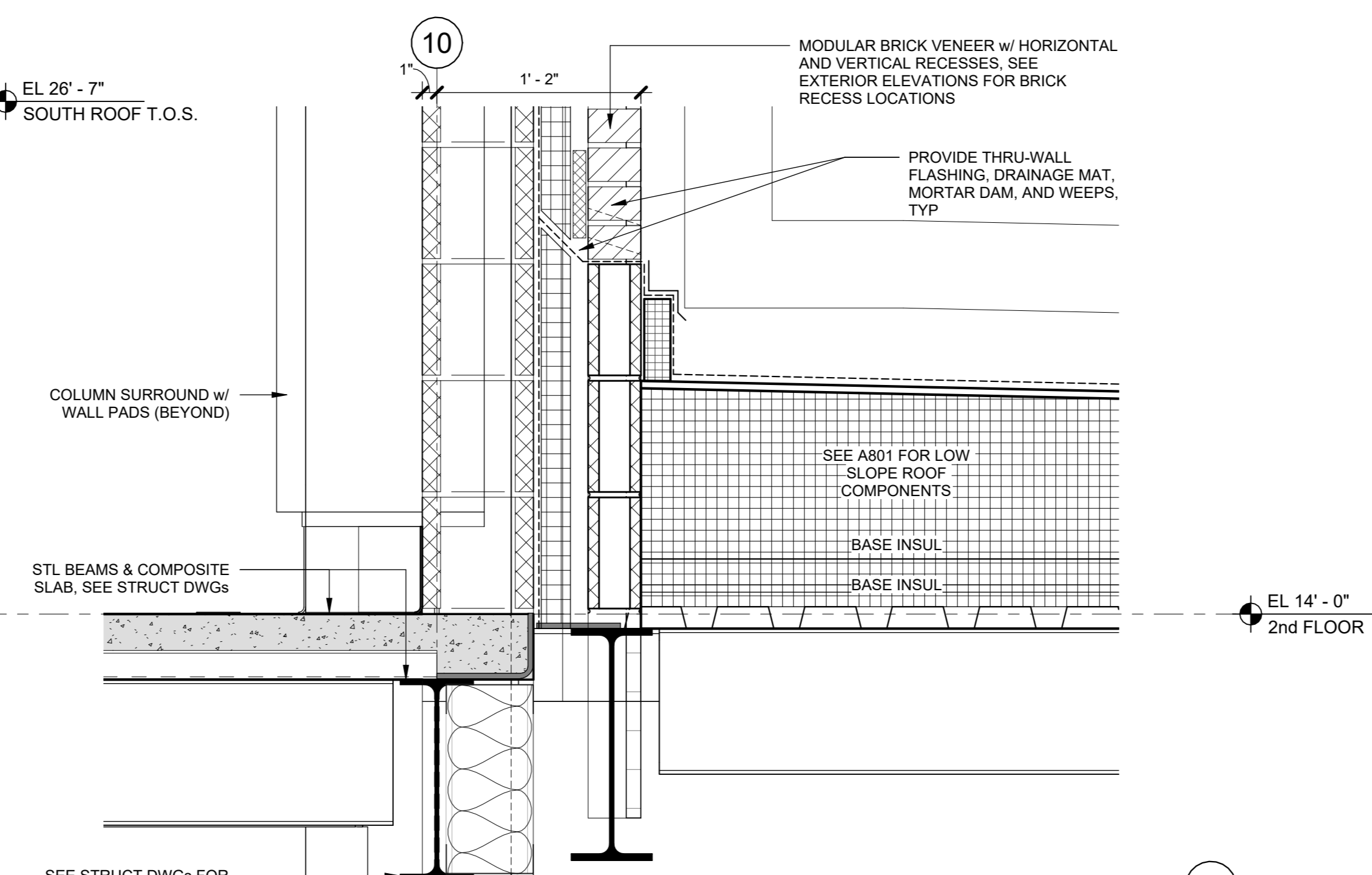
No.	Date	Issue
Sheet Title		
EXTERIOR DETAILS		
Job No.	2020-1005	Date
Scale	AS NOTED	Drawn / Checked
Sheet Number		Author Checker



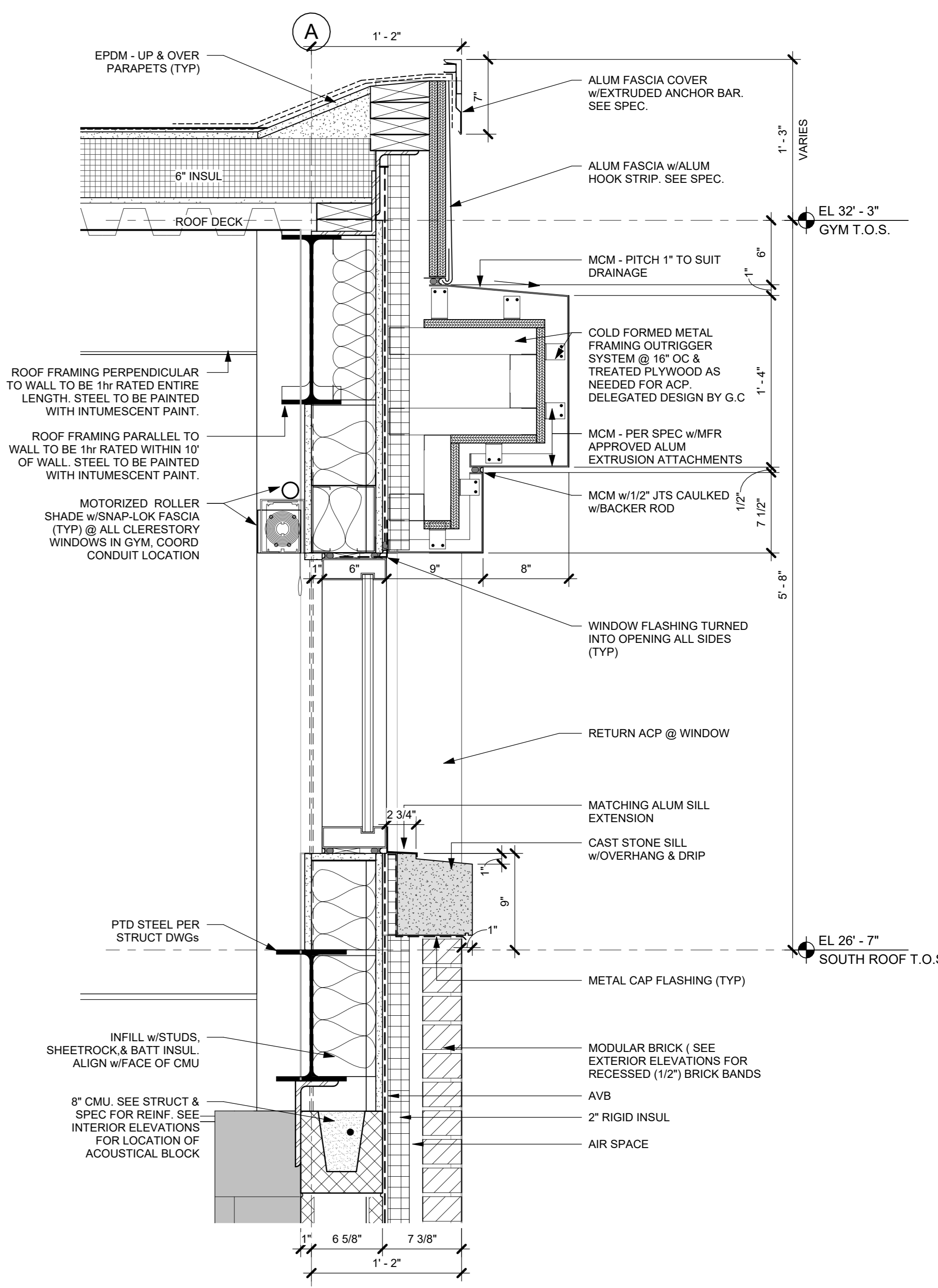
8 Section 59 - Callout 1
1 1/2" = 1'-0"



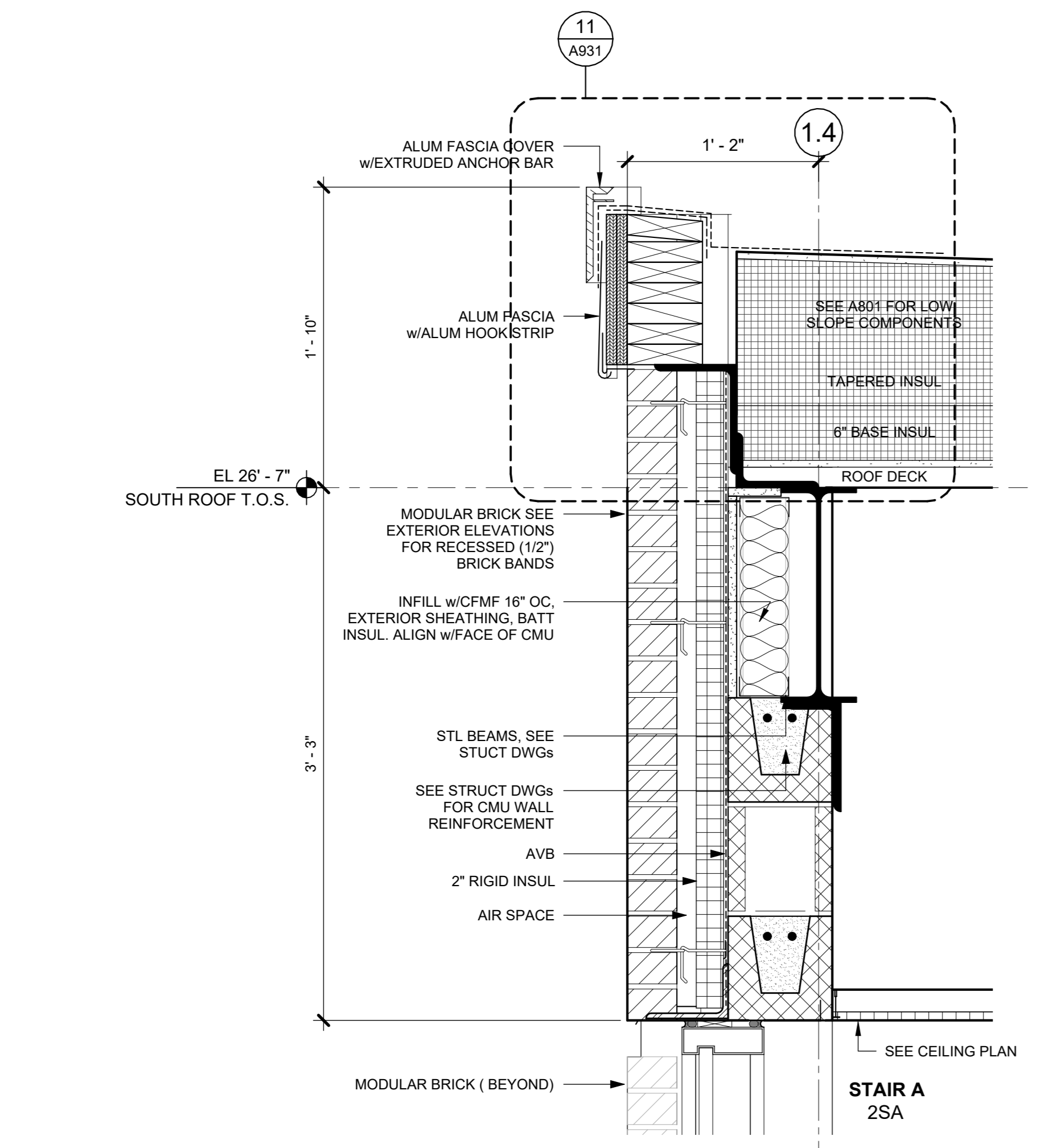
5 WALL SECTION AT GYM NORTH - Callout 2
1 1/2" = 1'-0"



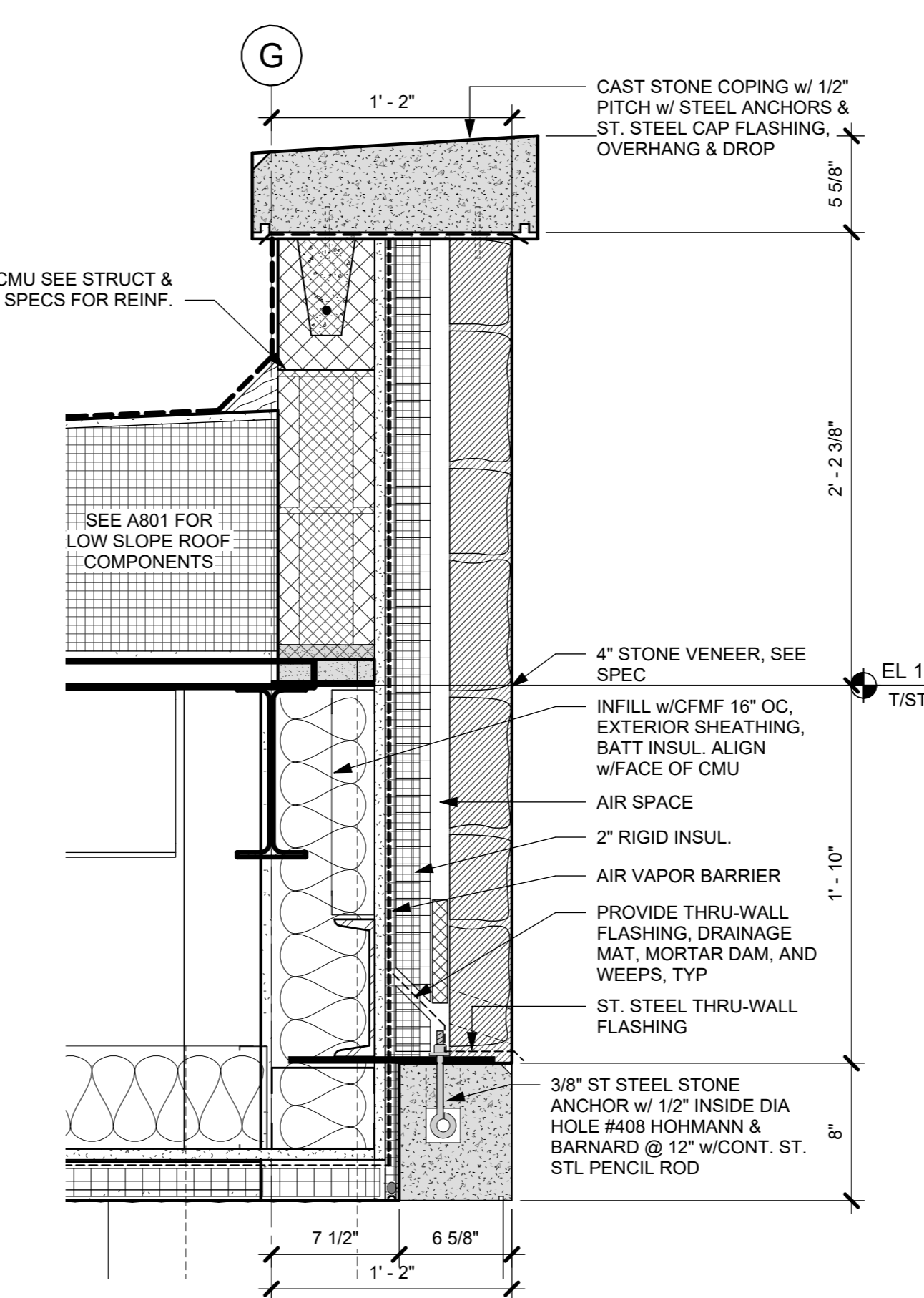
4 WALL SECTION AT GYM NORTH - Callout 1
1 1/2" = 1'-0"



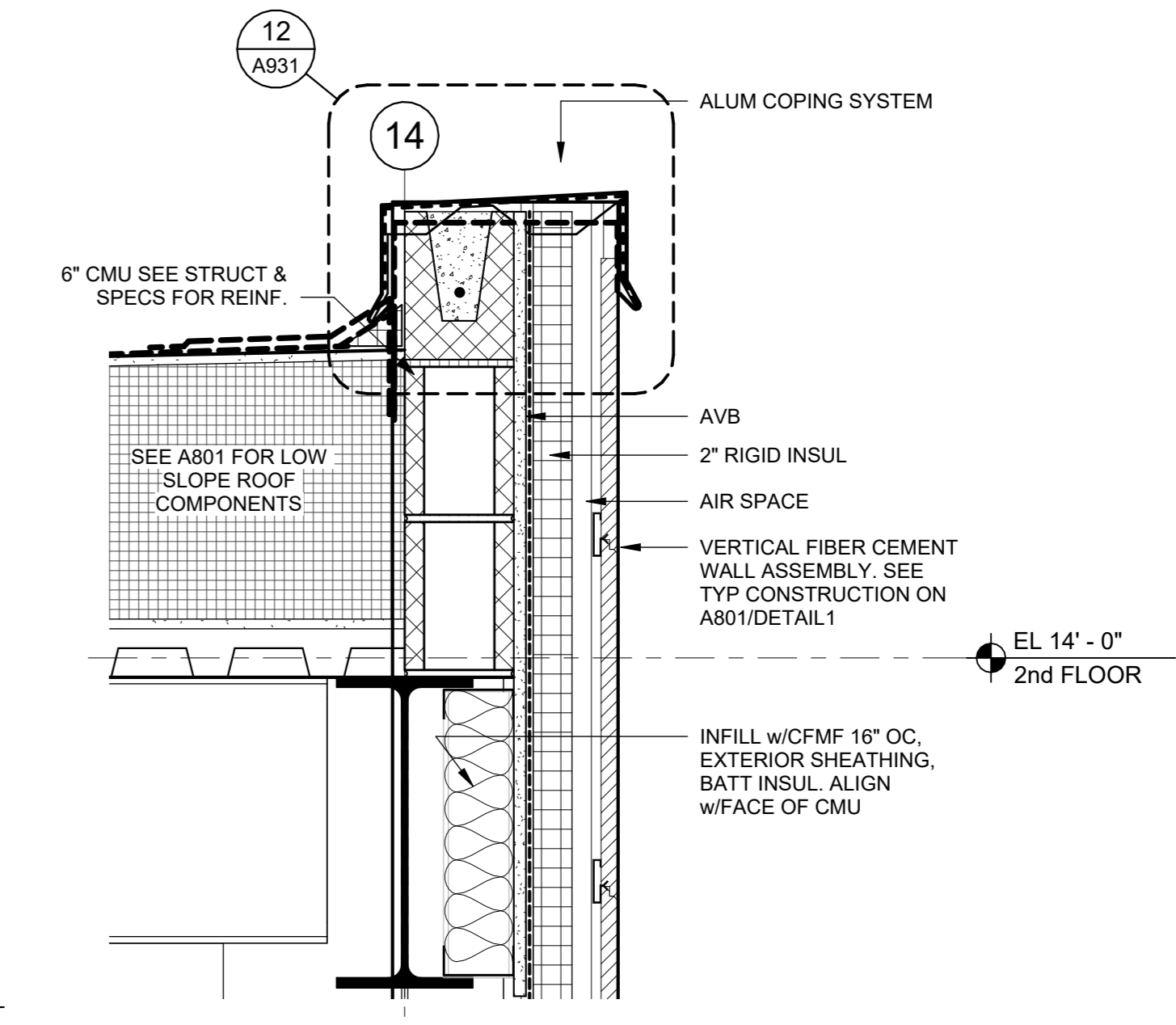
2 WALL SECTION AT GYM WEST - Callout 1
1 1/2" = 1'-0"



1 WALL SECTION AT STAIR A CURTAIN WALL - Callout 1
1 1/2" = 1'-0"



6 WALL SECTION AT NORTH ENTRANCE - Callout 1
1 1/2" = 1'-0"



7 WALL SECTION AT FITNESS AREA - Callout 1
1 1/2" = 1'-0"

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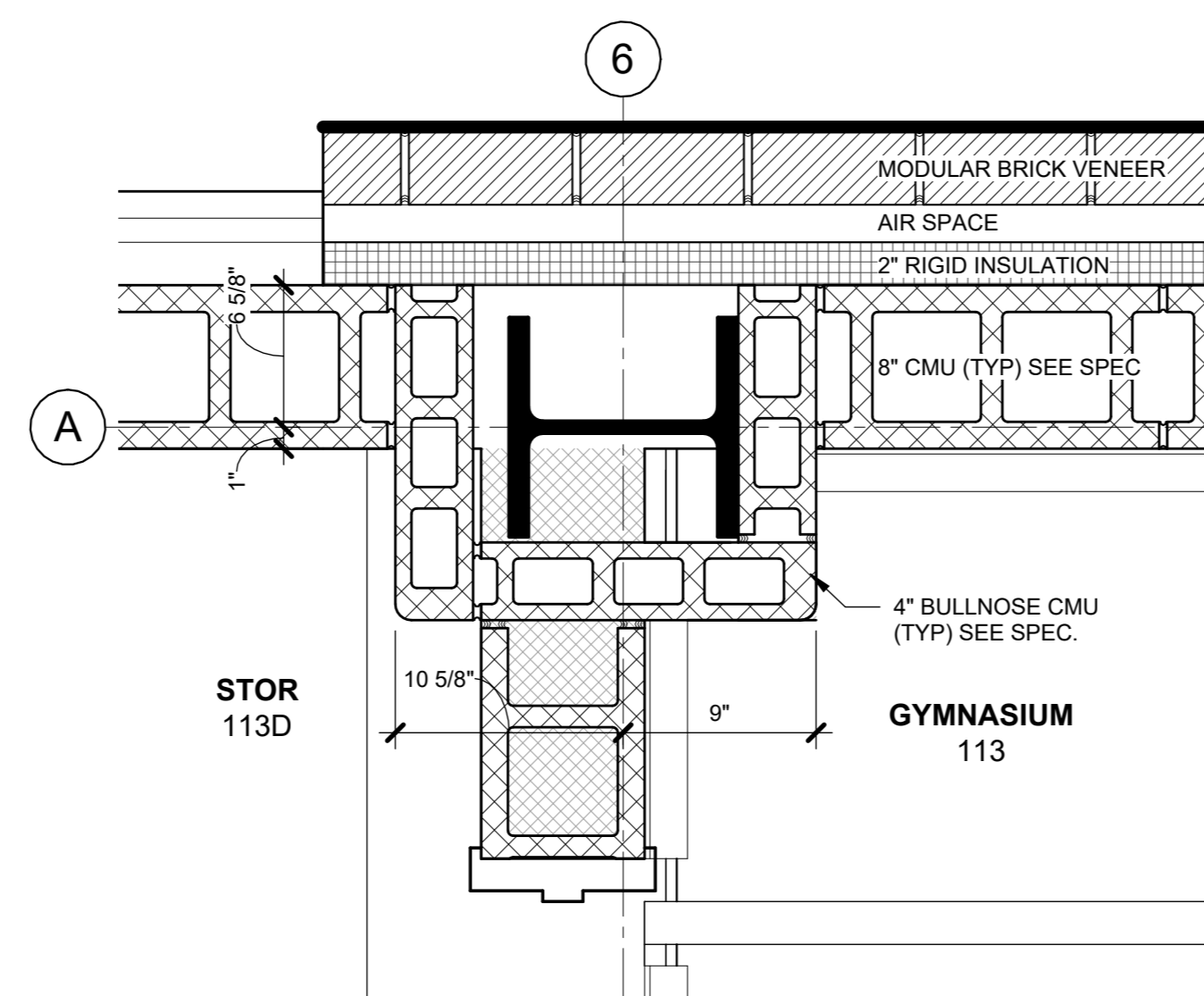
Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
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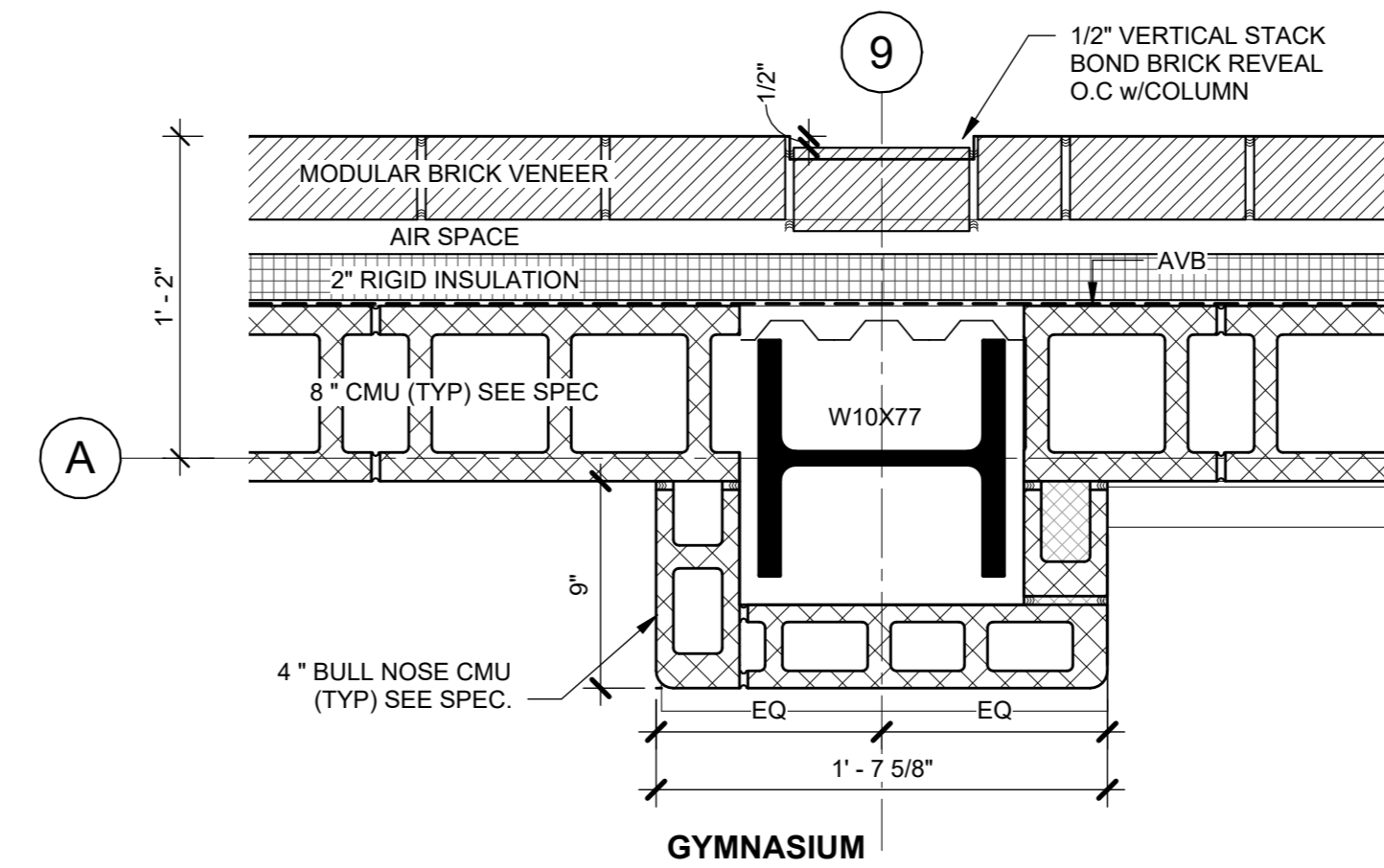
**EXTERIOR
DETAILS**

Job No.	2020-1005	Date	02/28/24
Scale	AS NOTED	Drawn / Checked	Author / Checker

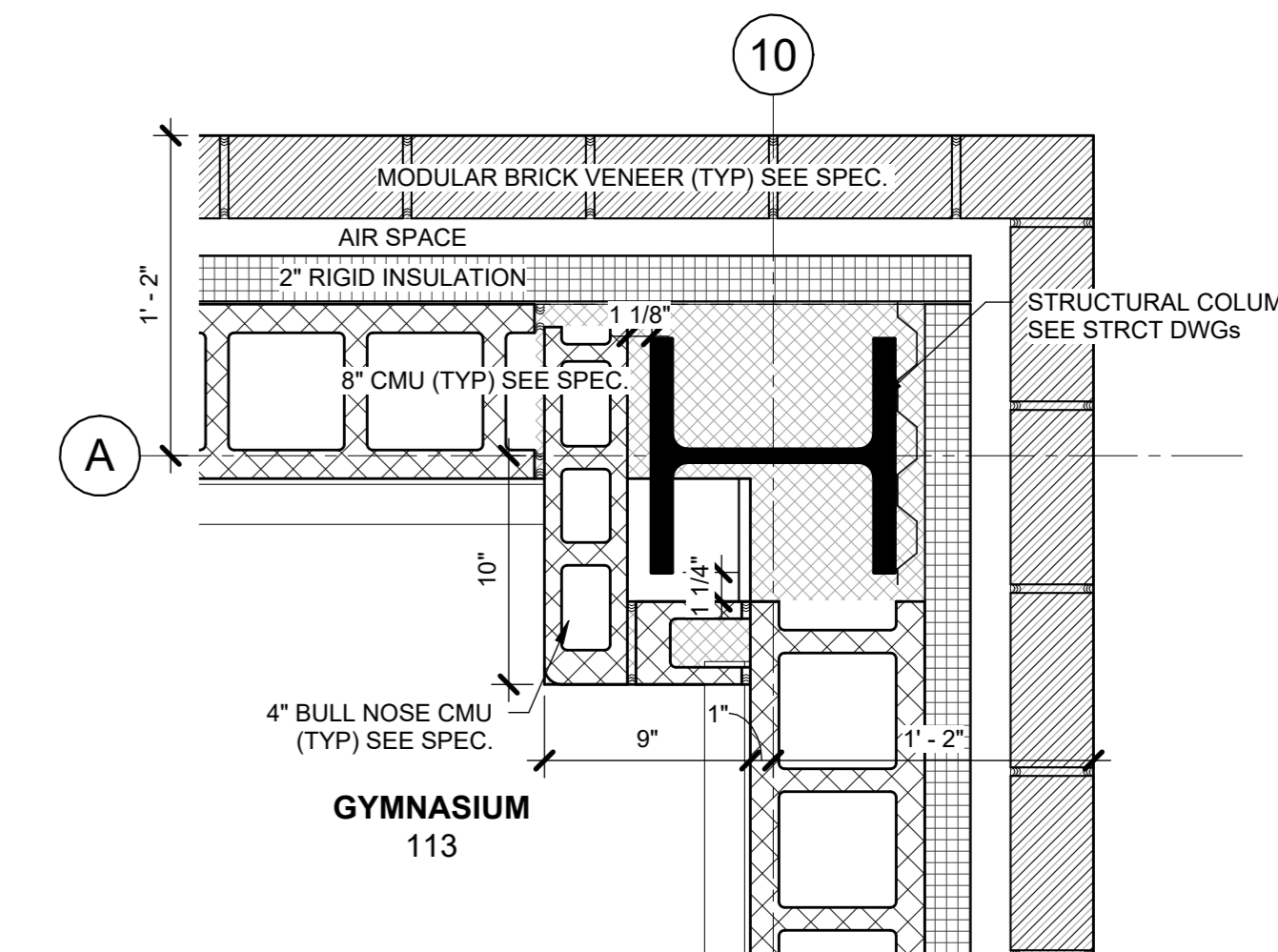
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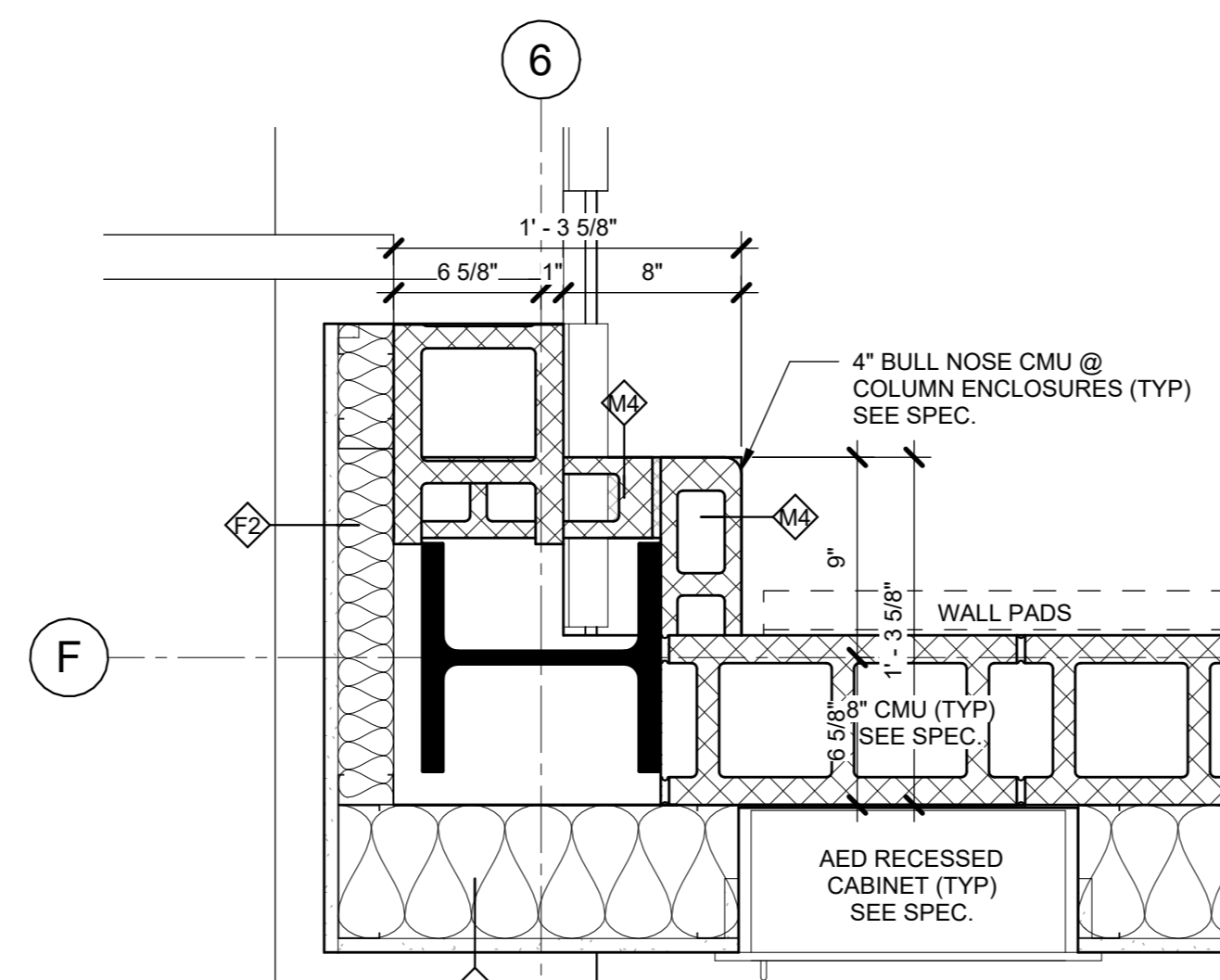
6 PLAN DETAIL @ WEST WALL OF GYM
1 1/2" = 1'-0"



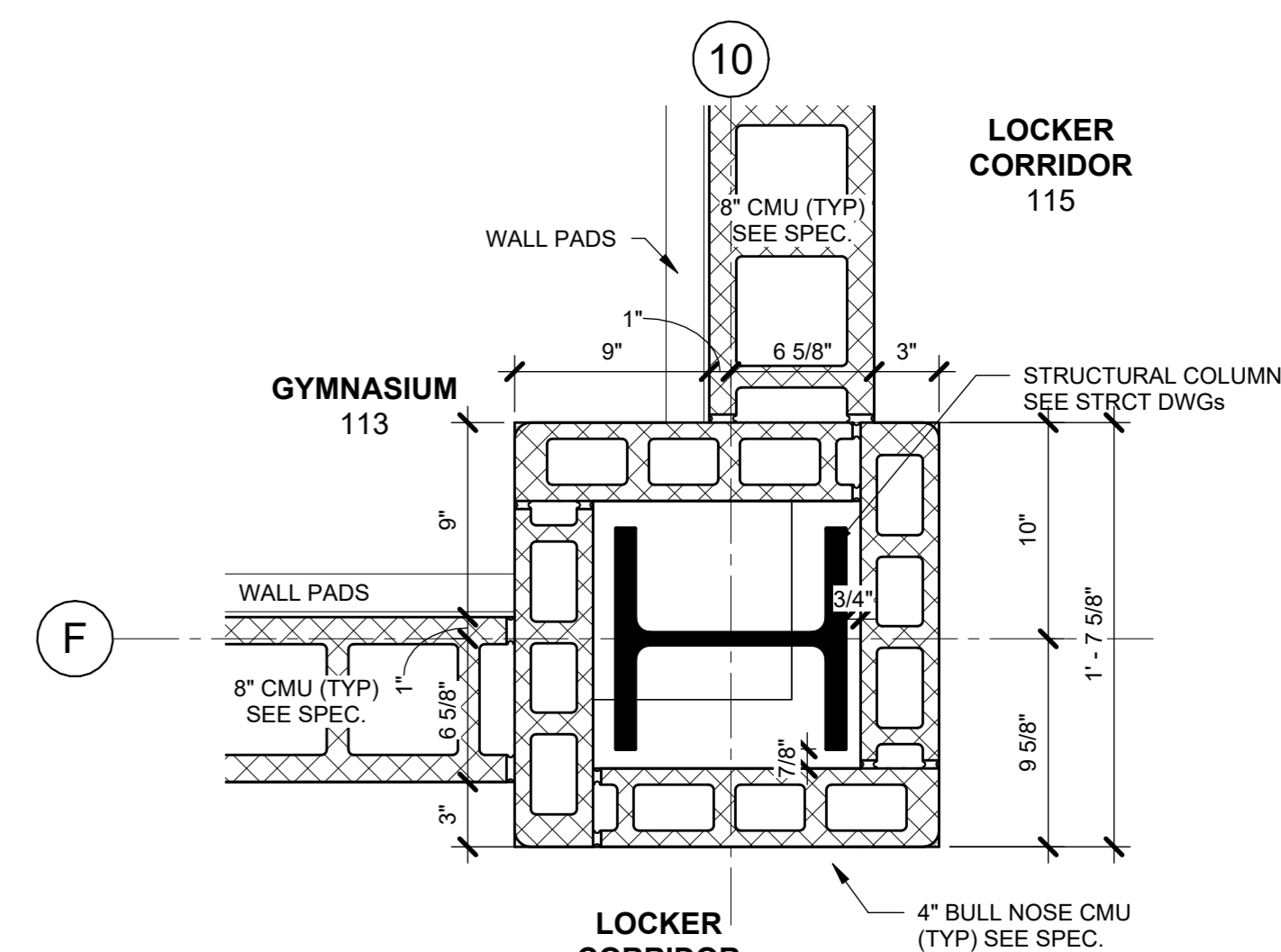
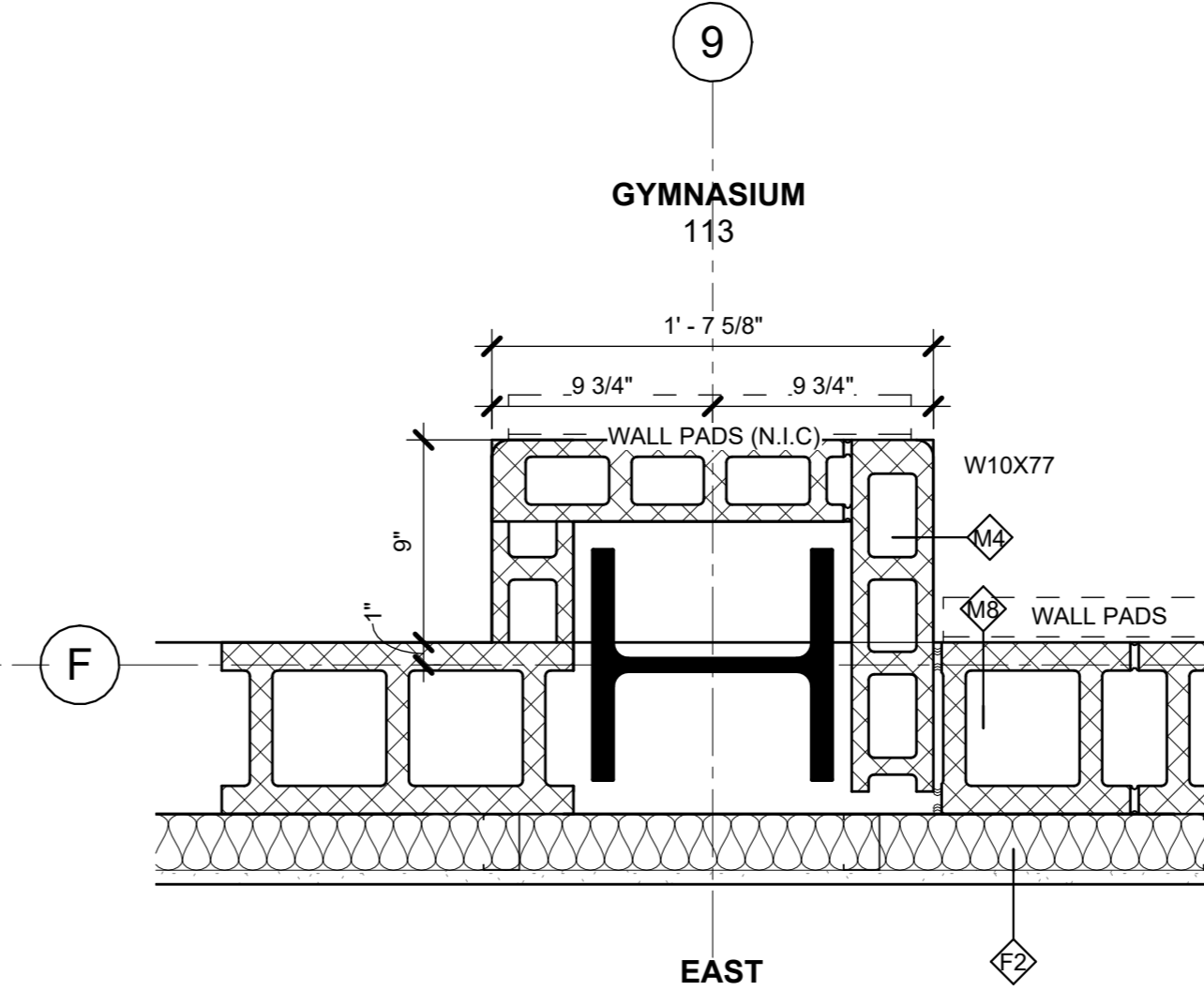
9 PLAN DETAIL @ EAST WALL OF GYM
1 1/2" = 1'-0"



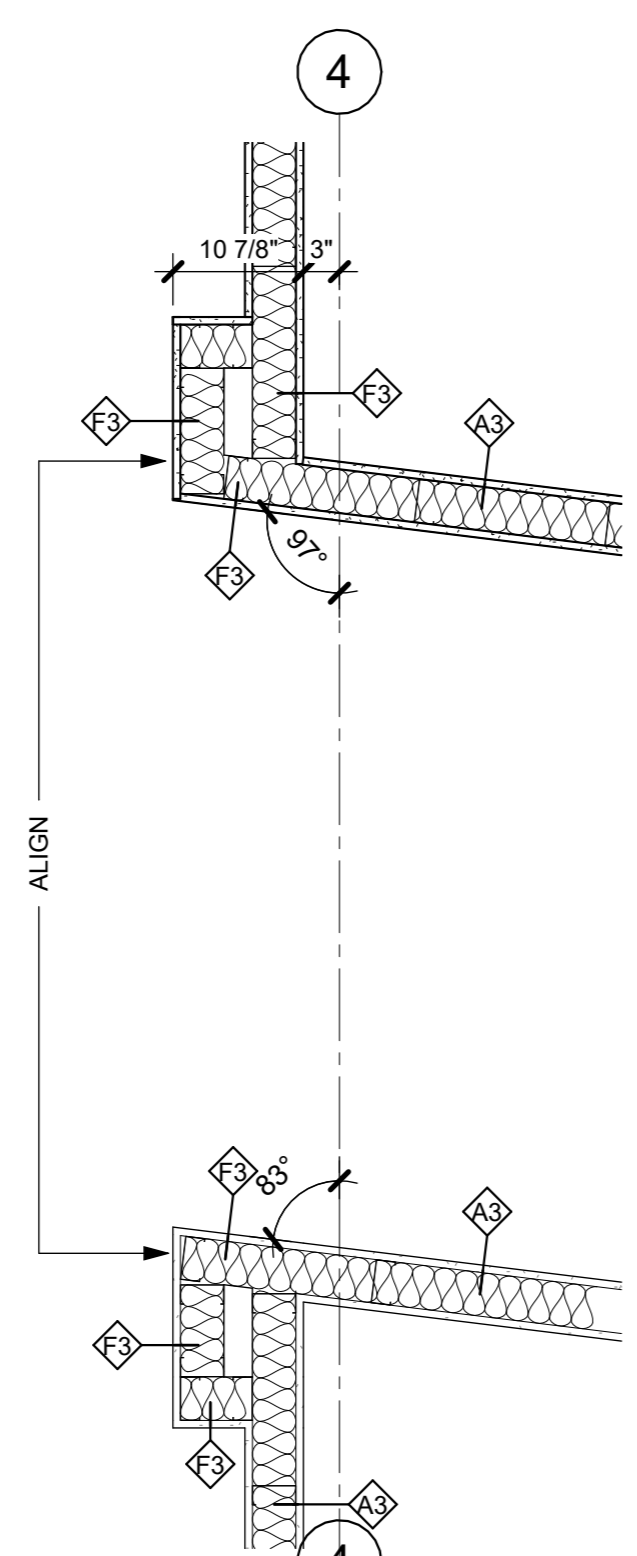
8 PLAN DETAIL @ NORTH/WEST CORNER OF GYM
1 1/2" = 1'-0"



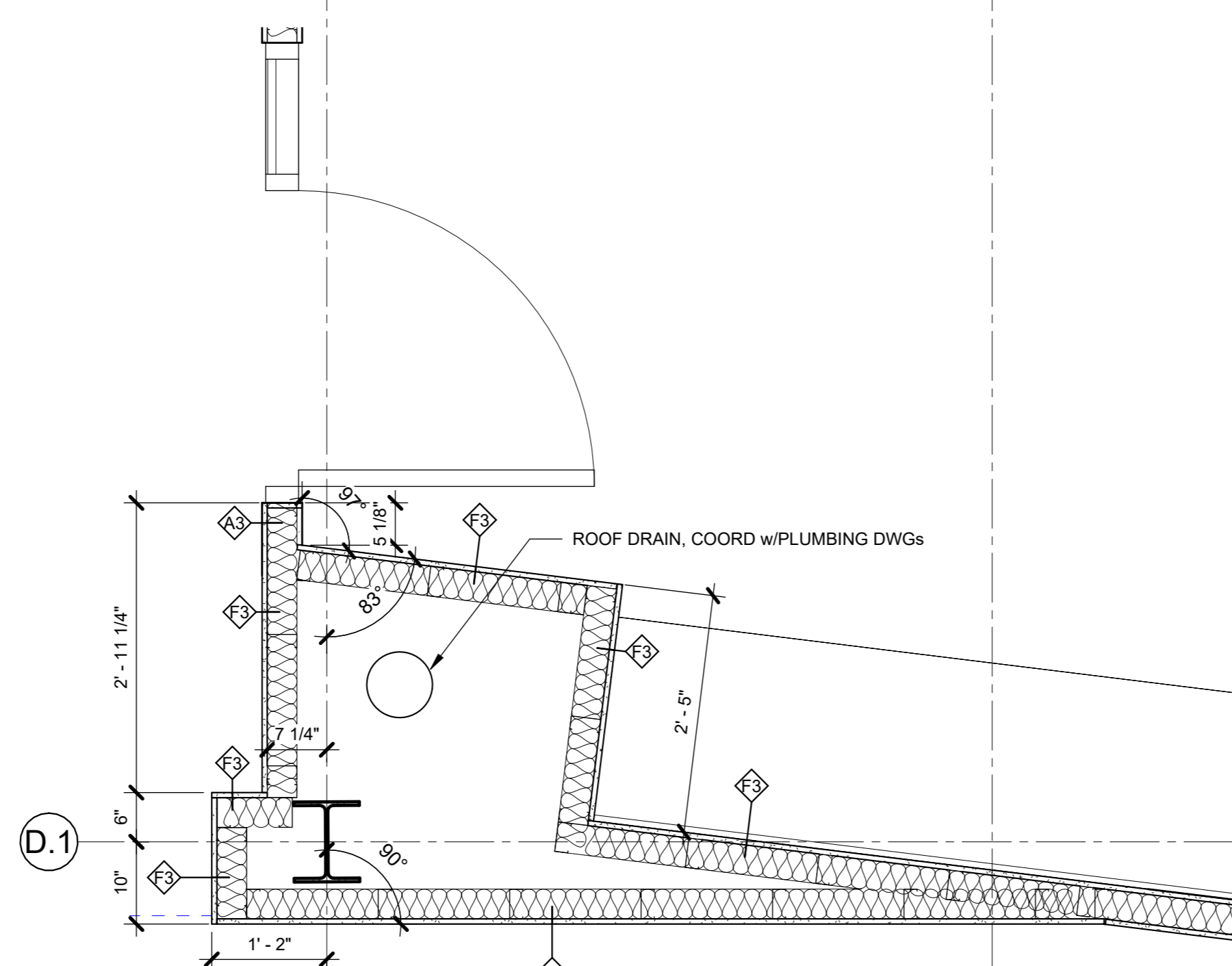
10 PLAN DETAIL @ SOUTH/EAST WALL OF GYM
1 1/2" = 1'-0"



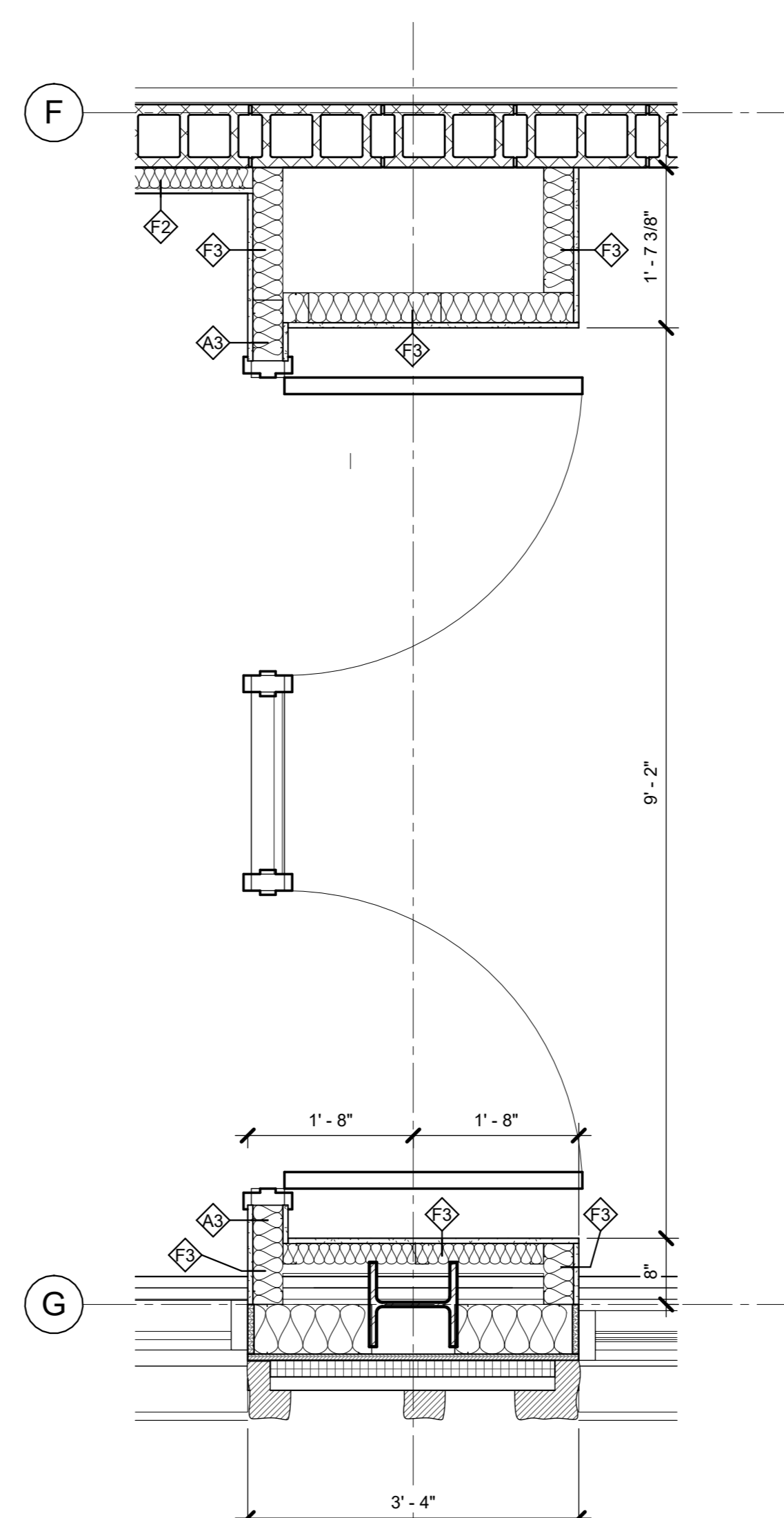
7 PLAN DETAIL @ NORTH/EAST CORNER OF GYM
1 1/2" = 1'-0"



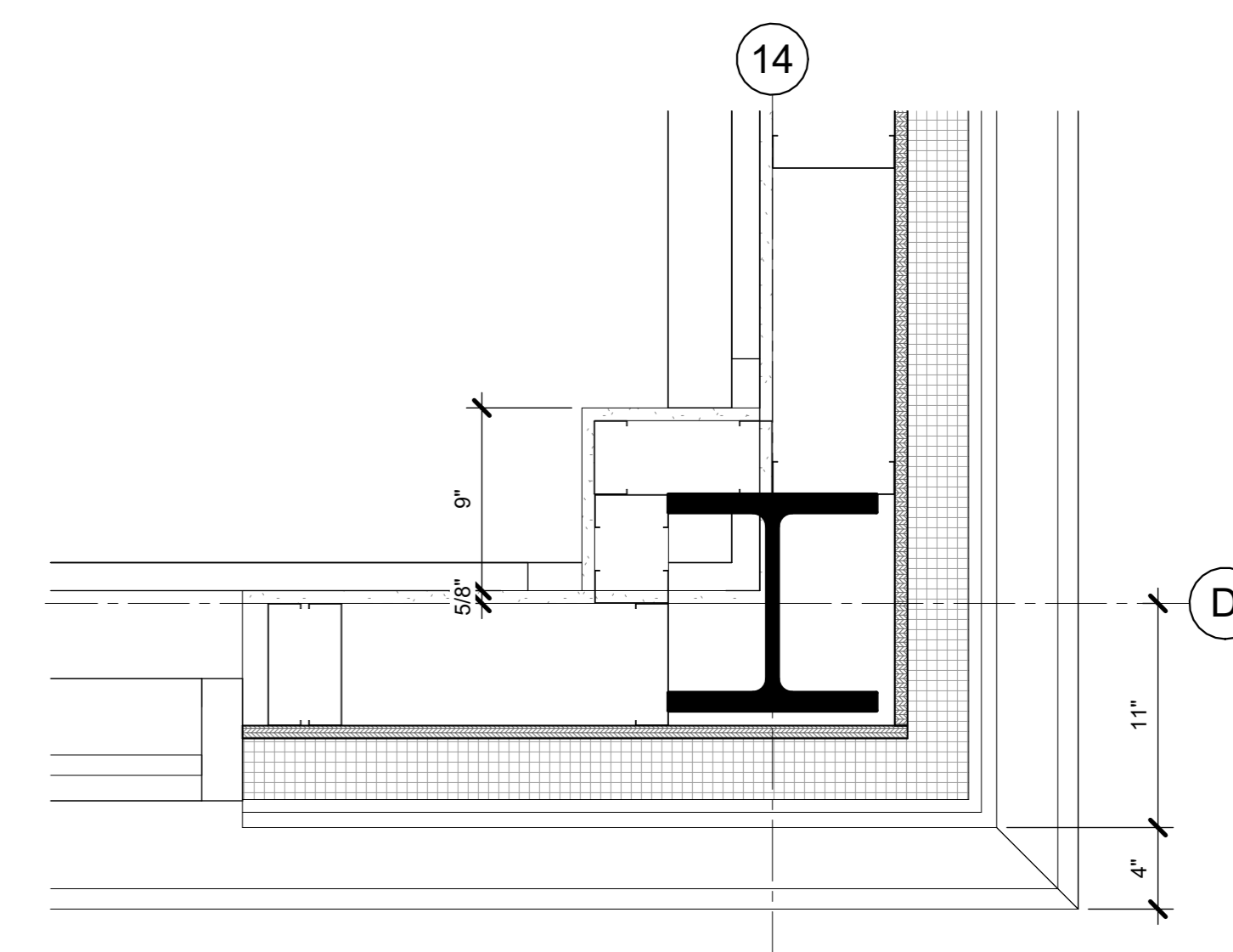
12 1st FL PLAN - Callout 6
3/4" = 1'-0"



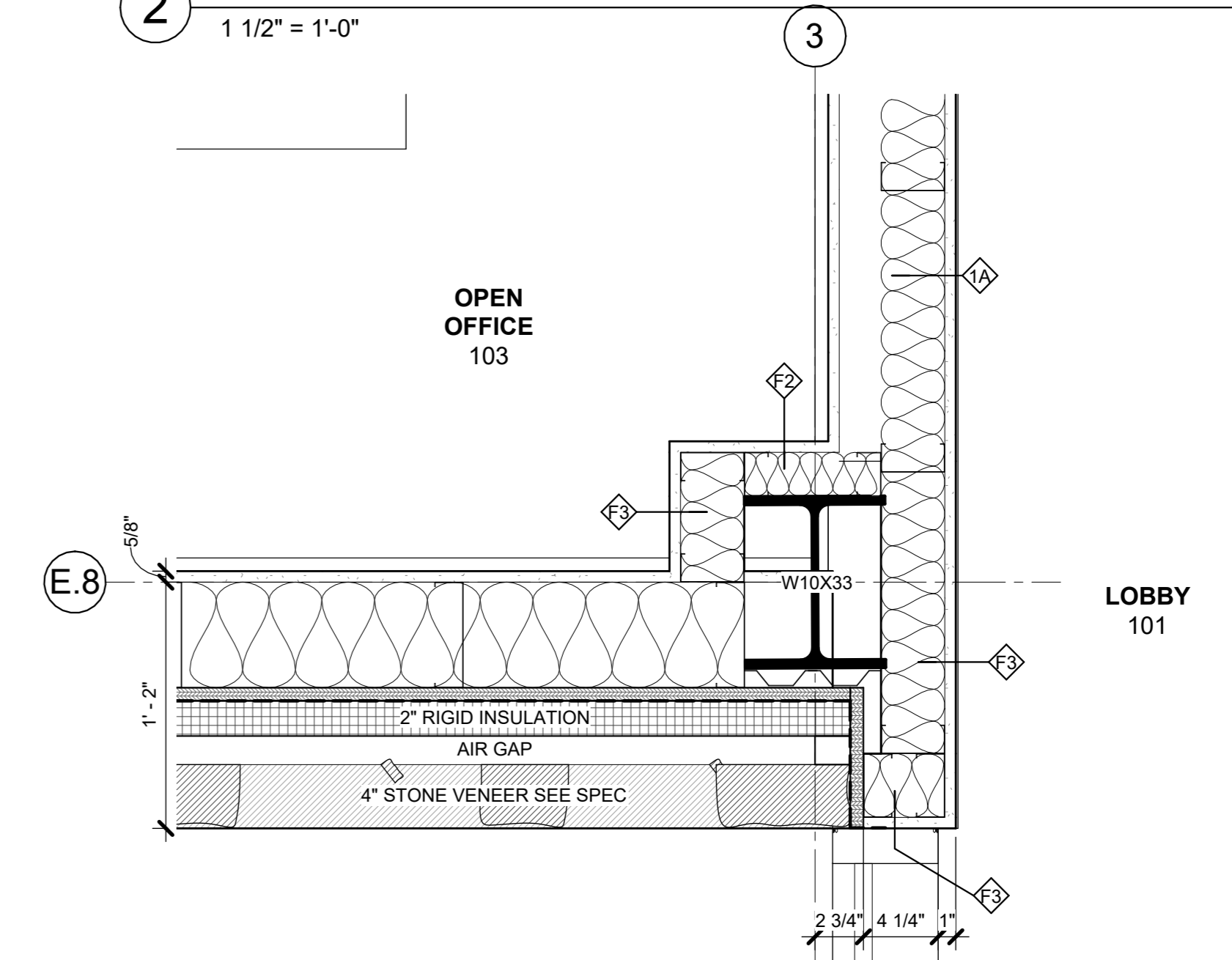
1 COMPUTER/GAMING ENLARGED PLAN 1
3/4" = 1'-0"



3 1st FL PLAN - Callout 5
3/4" = 1'-0"



2 1st FL PLAN - Callout 1
1 1/2" = 1'-0"



4 MAIN OFFICE ENLARGED PLAN - Callout 1
1 1/2" = 1'-0"

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

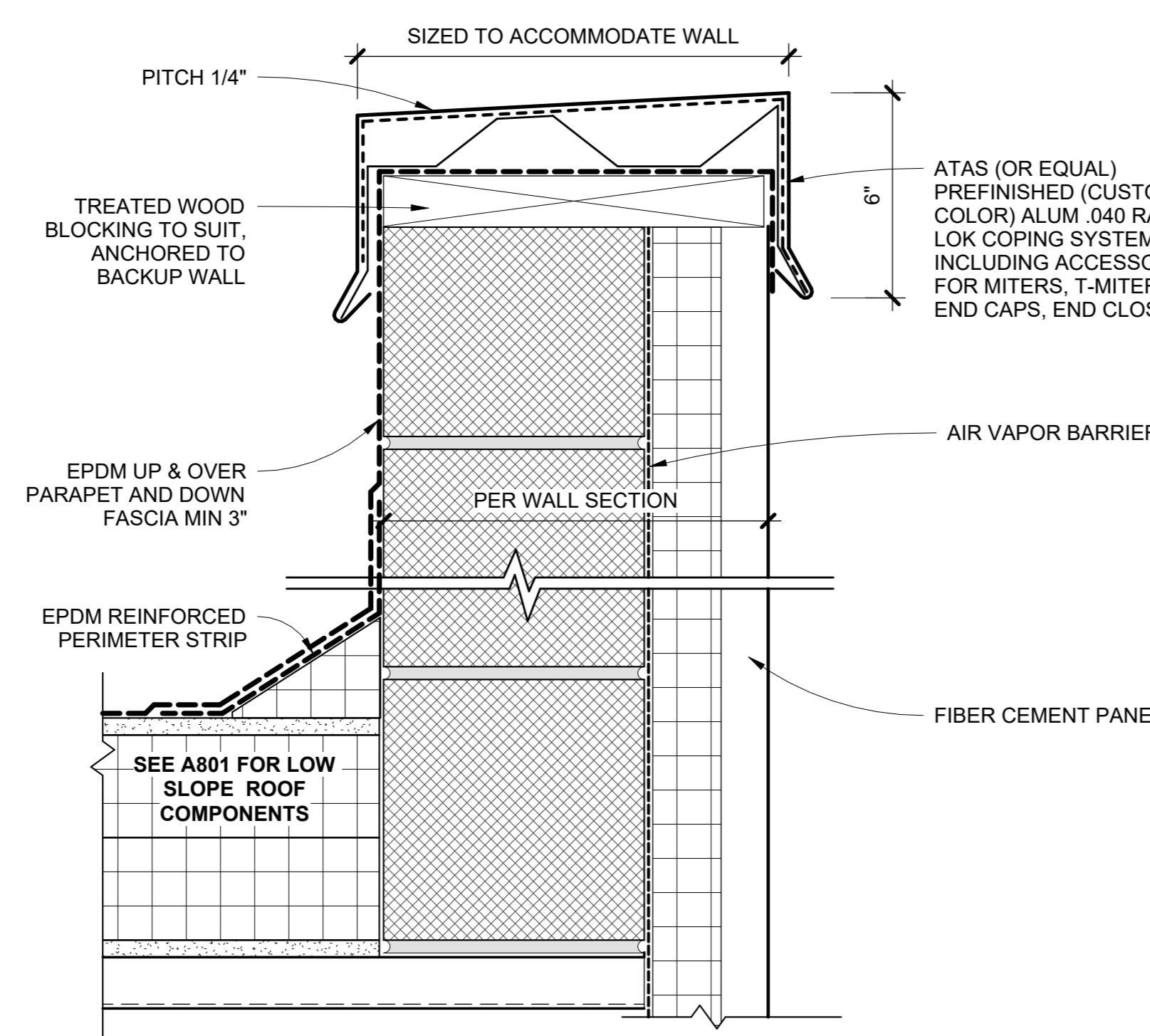
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**1ST FLOOR PLAN
DETAILS**

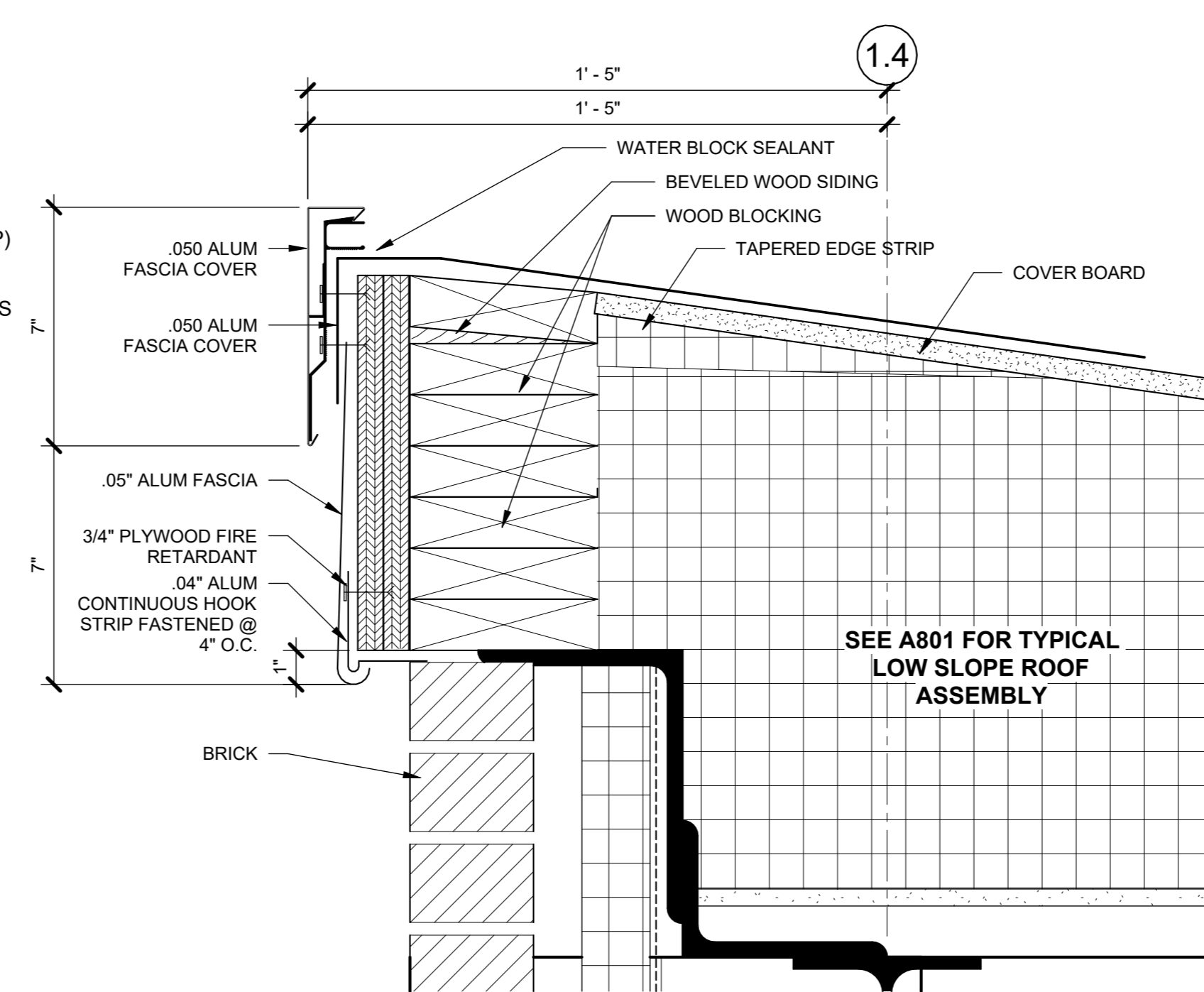
Job No. 2020-1005 Date 01/23/24

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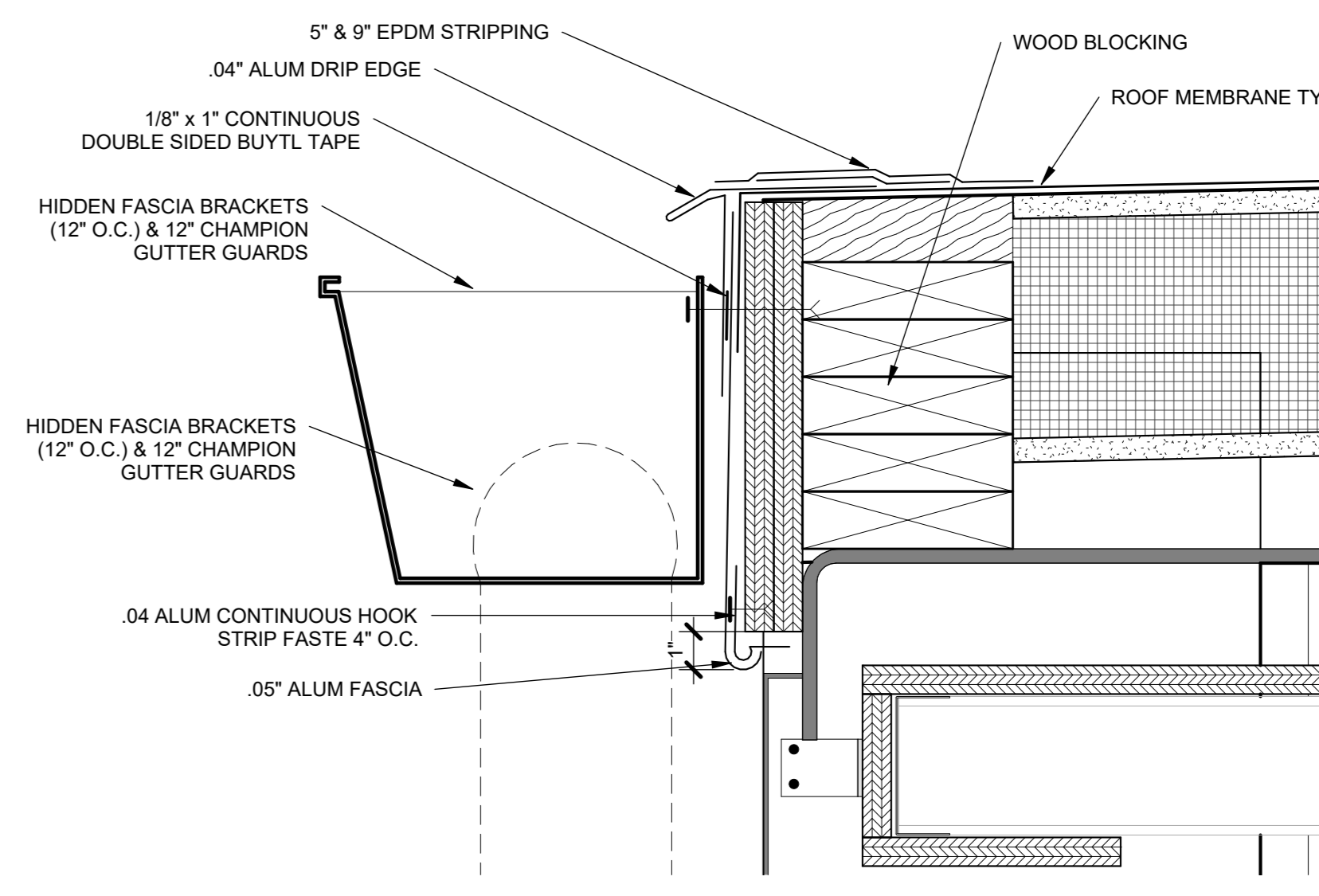
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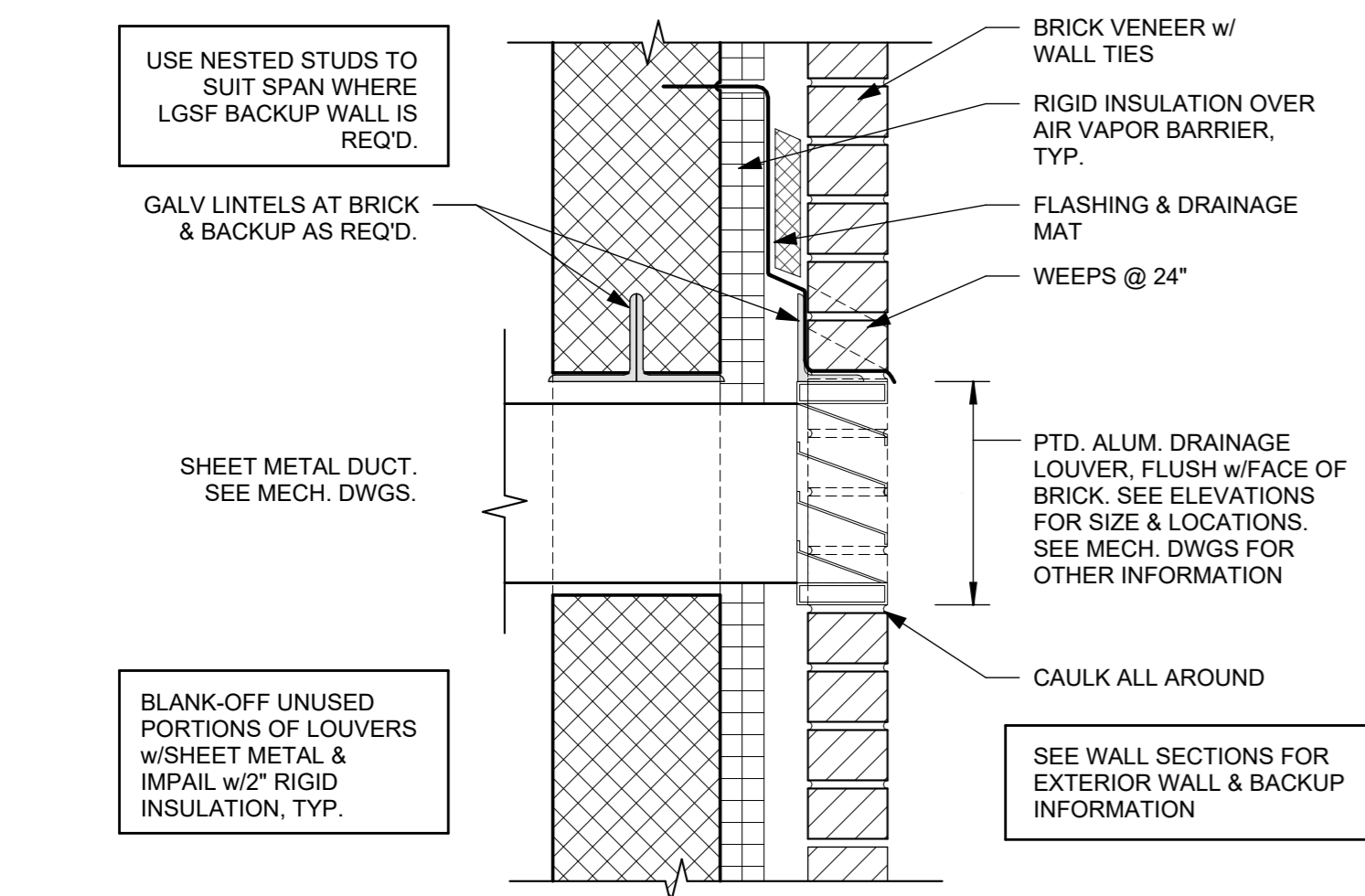
12 TYPICAL SNAP LOK COPING DETAIL
3\" = 1'-0"



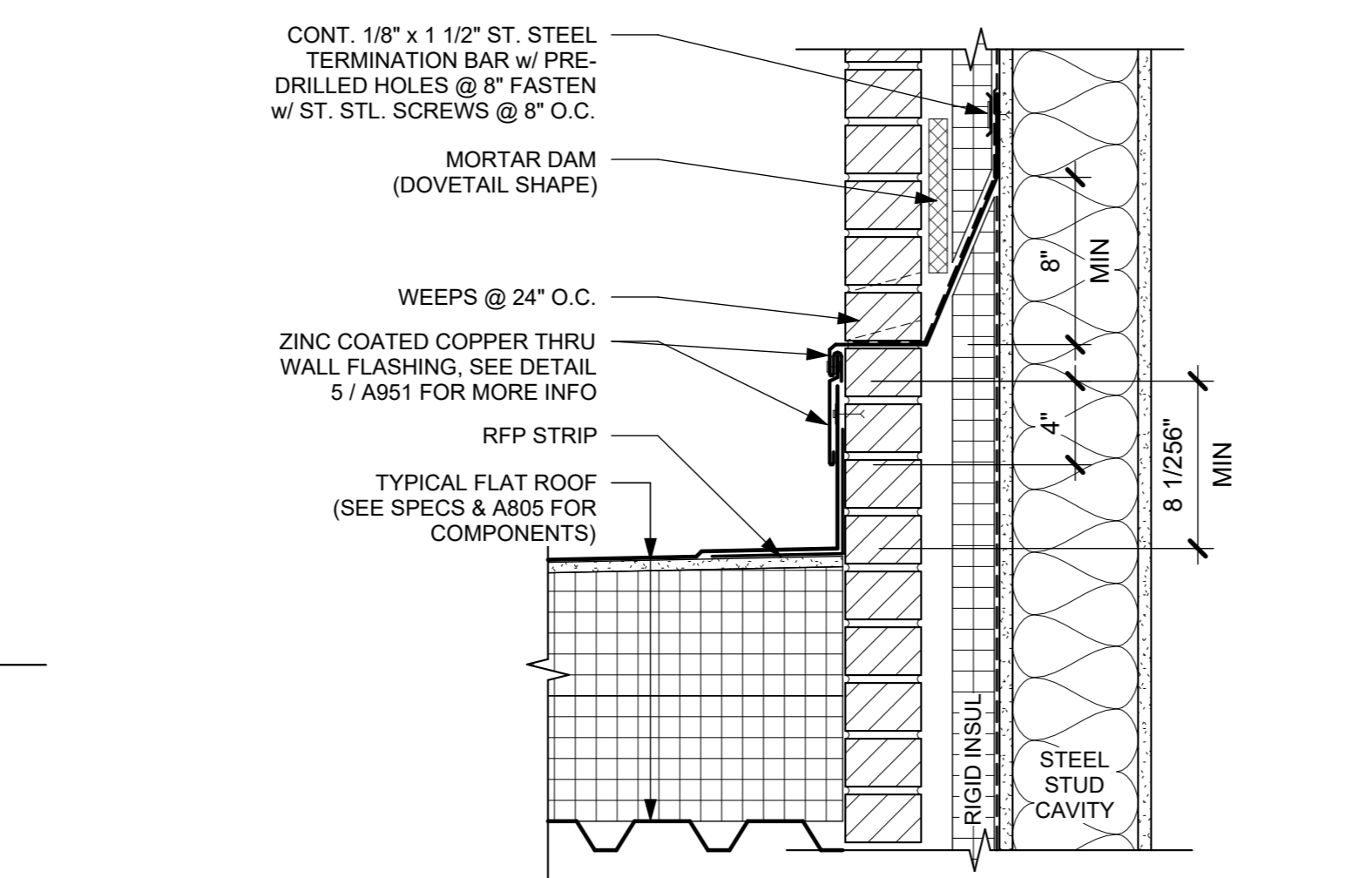
11 TYPICAL RAKE
3\" = 1'-0"



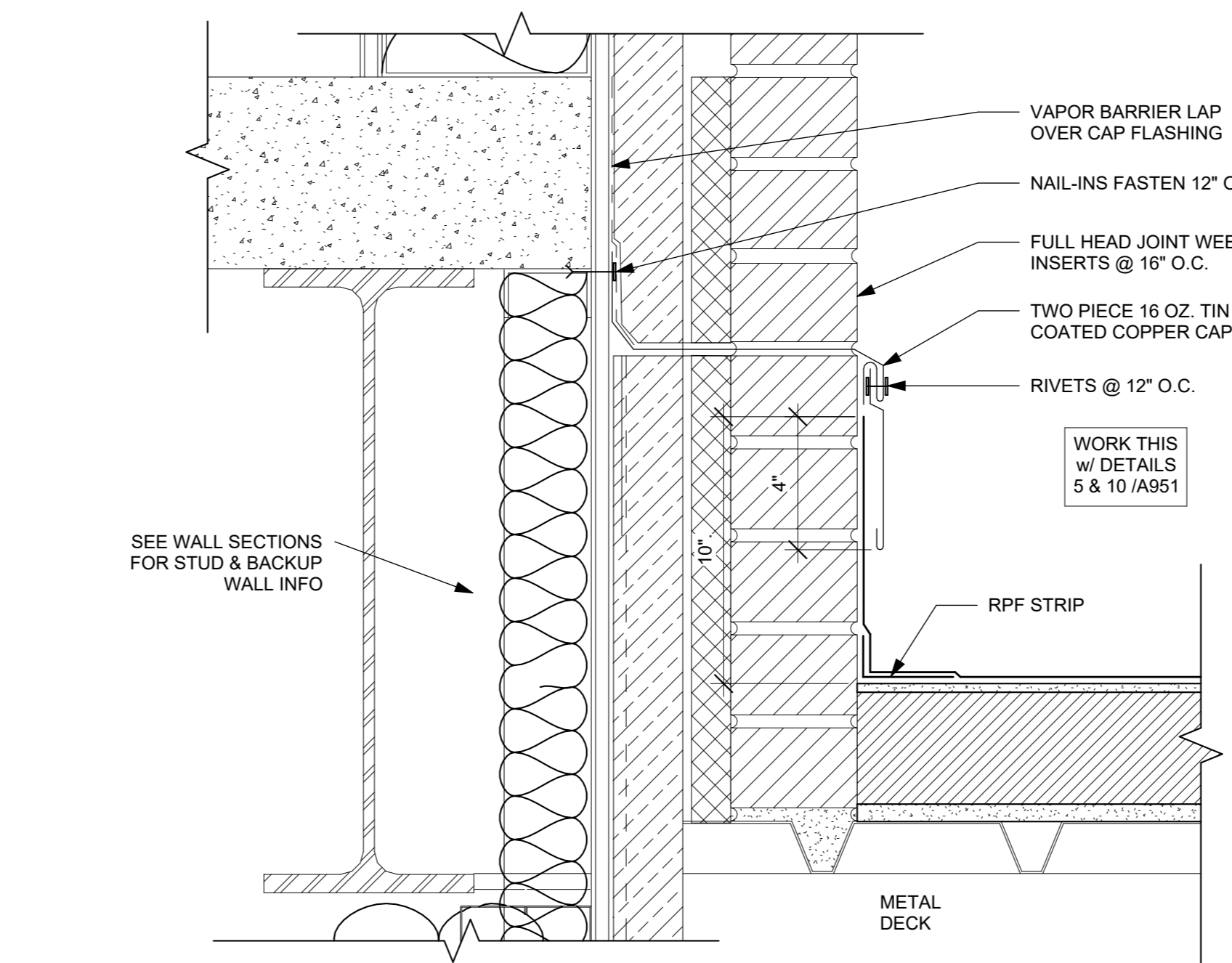
10 TYPICAL GUTTER EAVE
3\" = 1'-0"



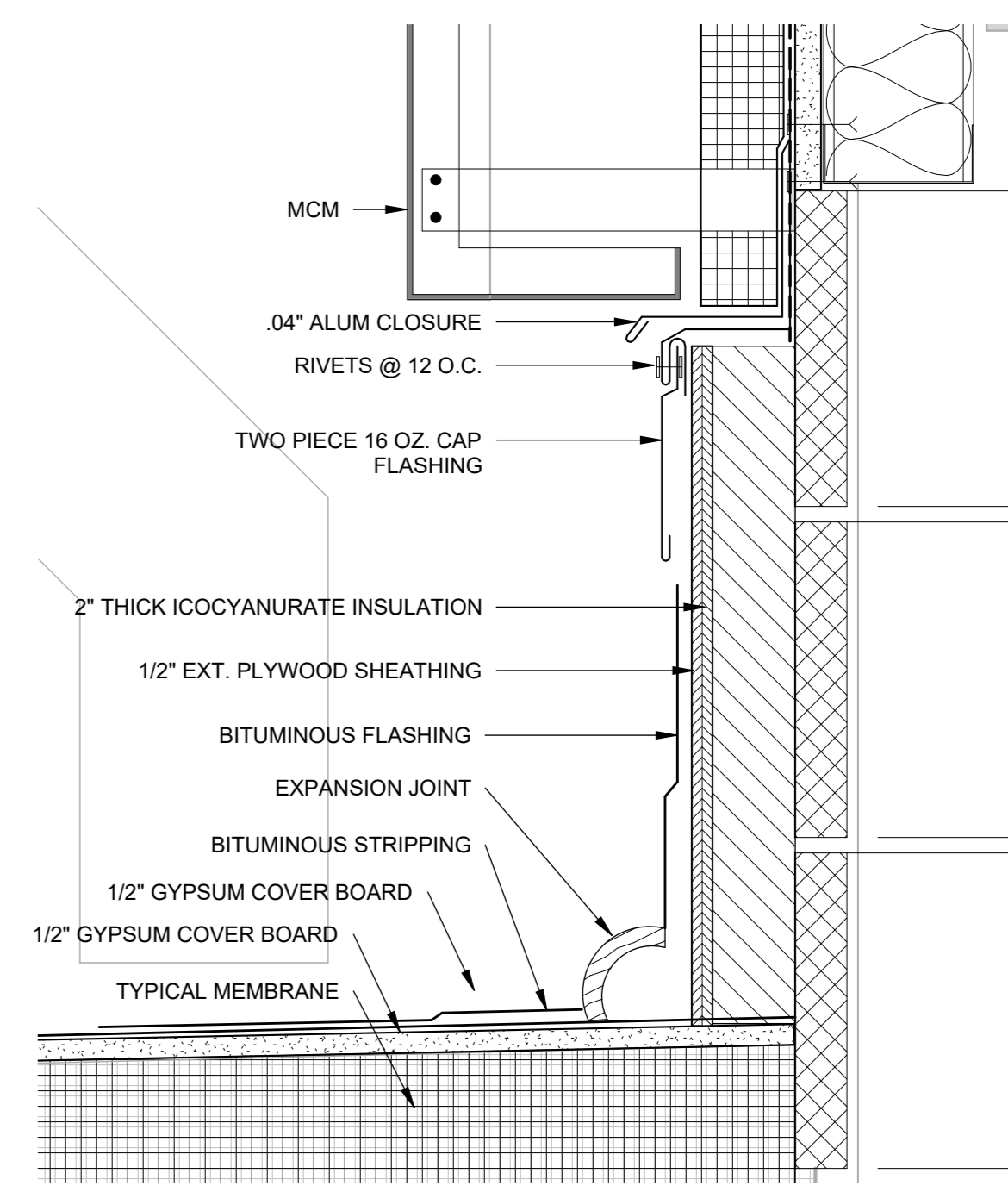
9 TYPICAL LOUVER DETAIL (U.N.O.)
1 1/2\" = 1'-0"



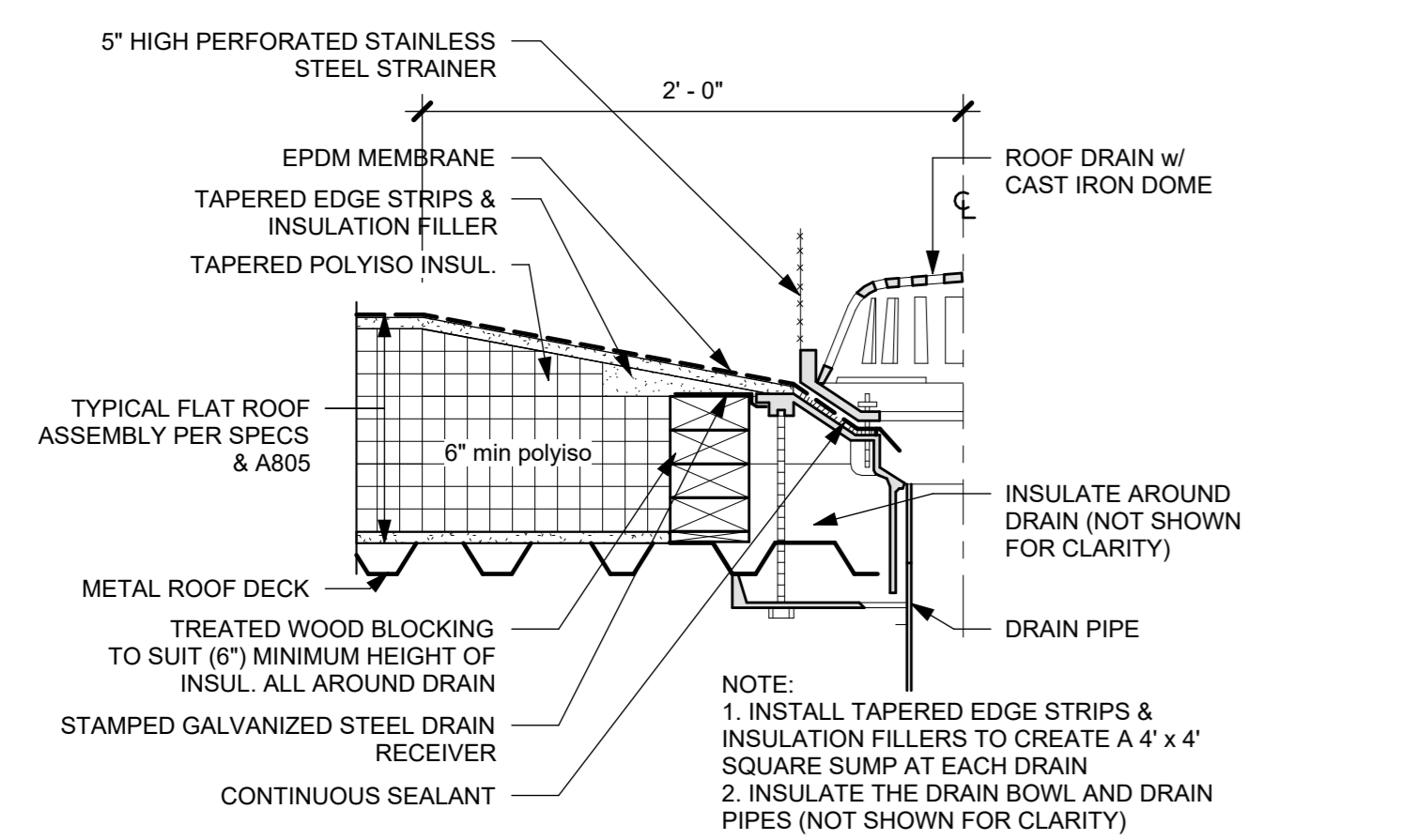
7 ROOF TO BRICK THRU-WALL FLASHING DETAIL - TYPICAL
1 1/2\" = 1'-0"



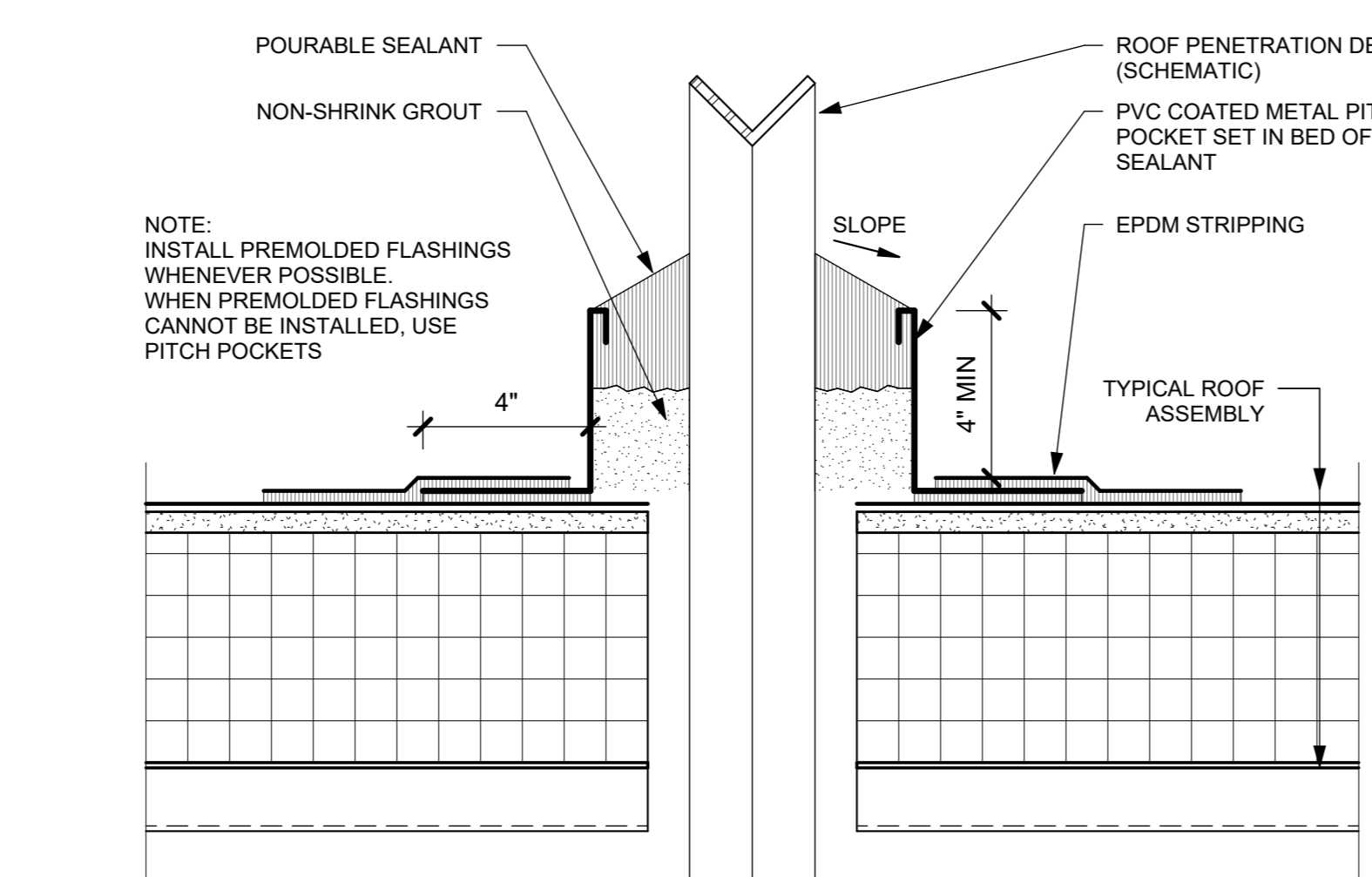
6 THROUGH WALL FLASHING DETAIL - TYP
3\" = 1'-0"



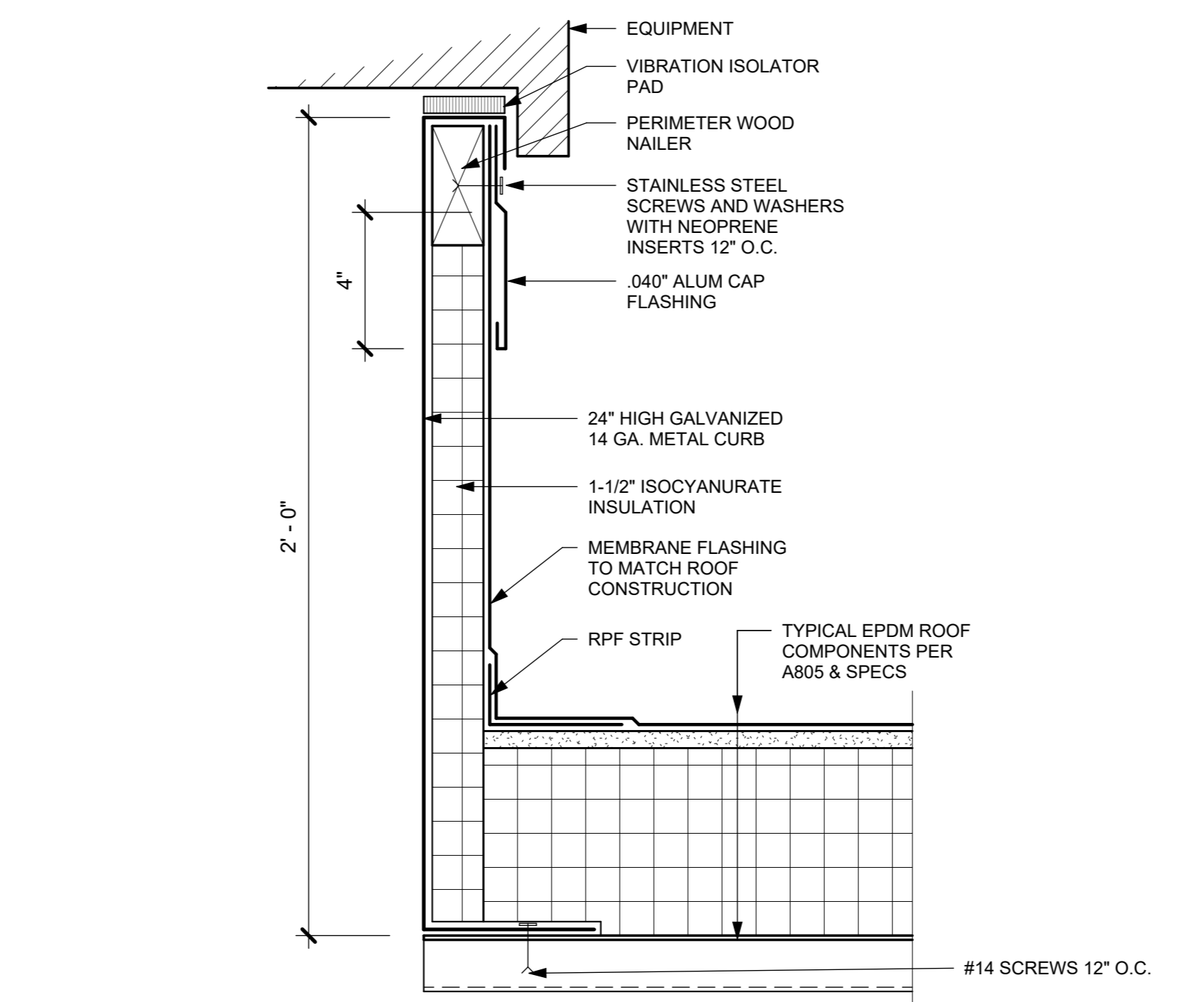
5 Section 59 - Callout 1 - Callout 1
3\" = 1'-0"



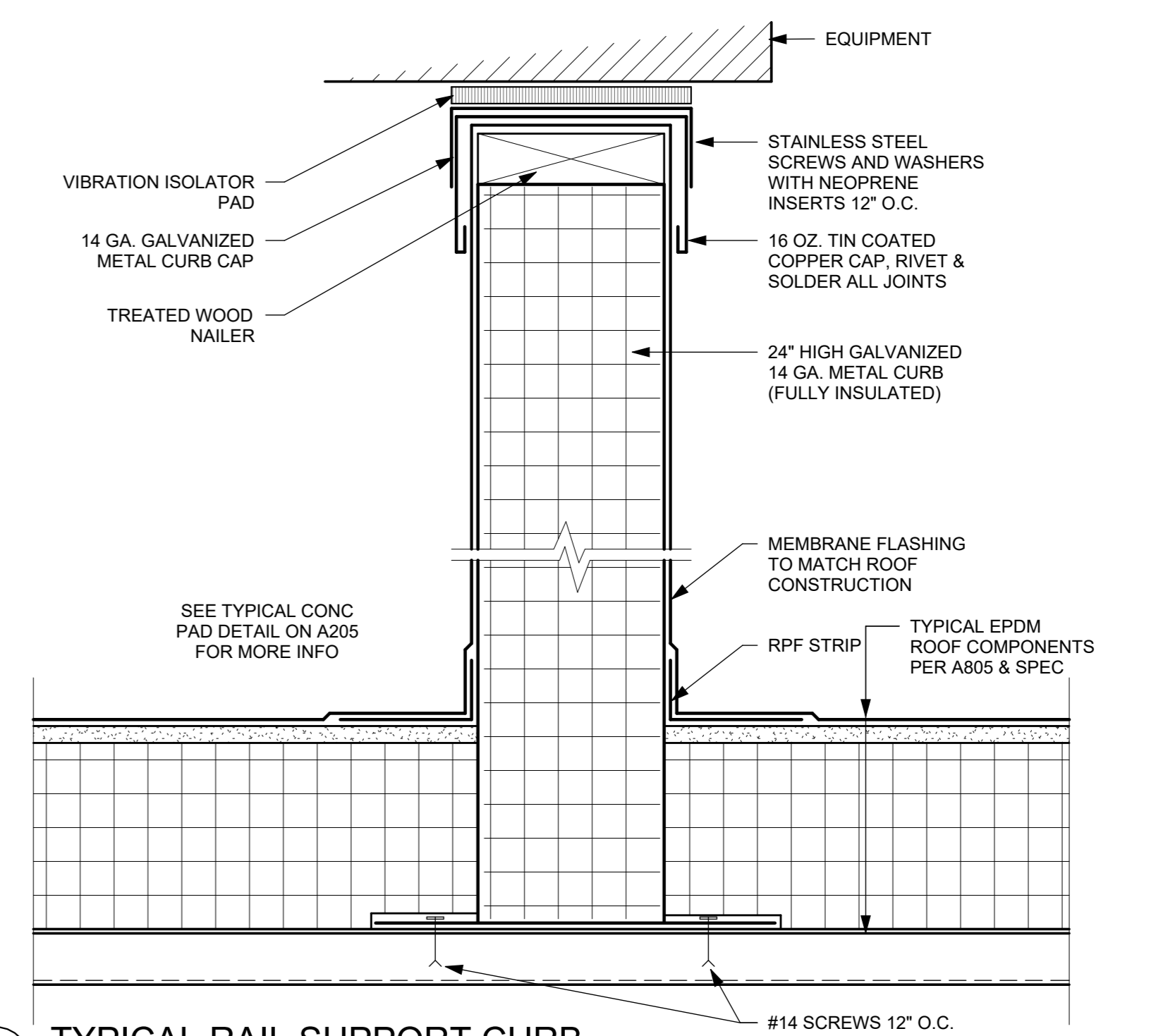
8 TYPICAL ROOF DRAIN
1 1/2\" = 1'-0"



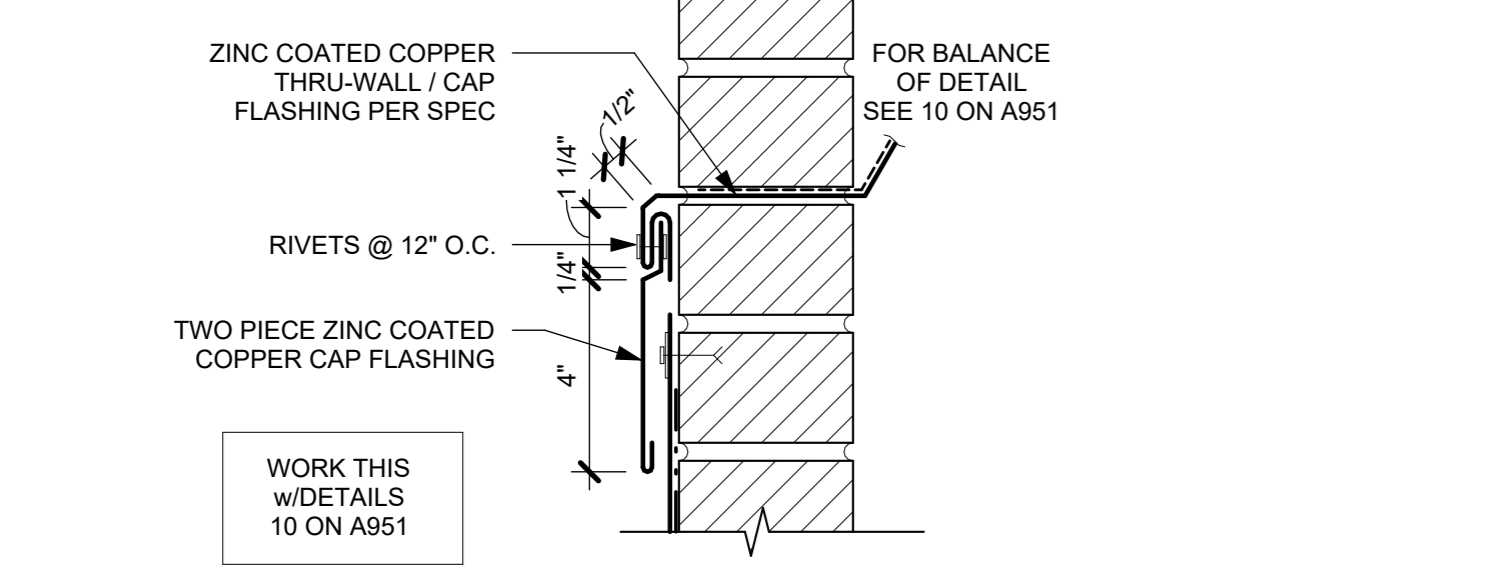
3 TYPICAL PITCH POCKET
3\" = 1'-0"



2 TYPICAL EQUIPMENT SUPPORT CURB
3\" = 1'-0"



1 TYPICAL RAIL SUPPORT CURB
3\" = 1'-0"



4 THRU-WALL FLASHING DETAIL - TYPICAL
3\" = 1'-0"

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

TYPICAL ROOF SECTIONS & DETAILS

Job No. 2020-1005 Date 01/09/24
Scale AS NOTED Drawn / Checked Author / Checker
Sheet Number

A931

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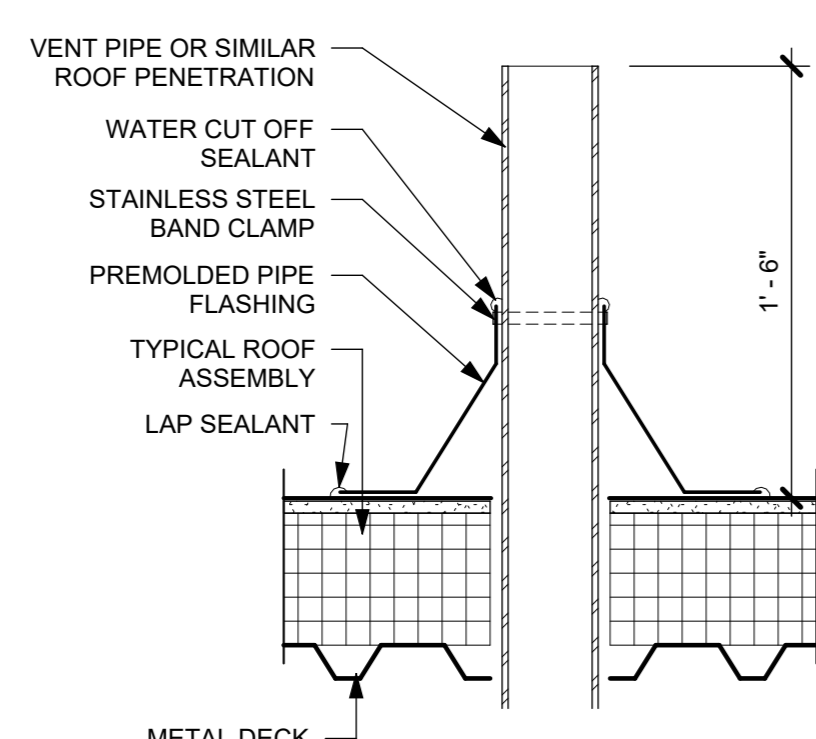
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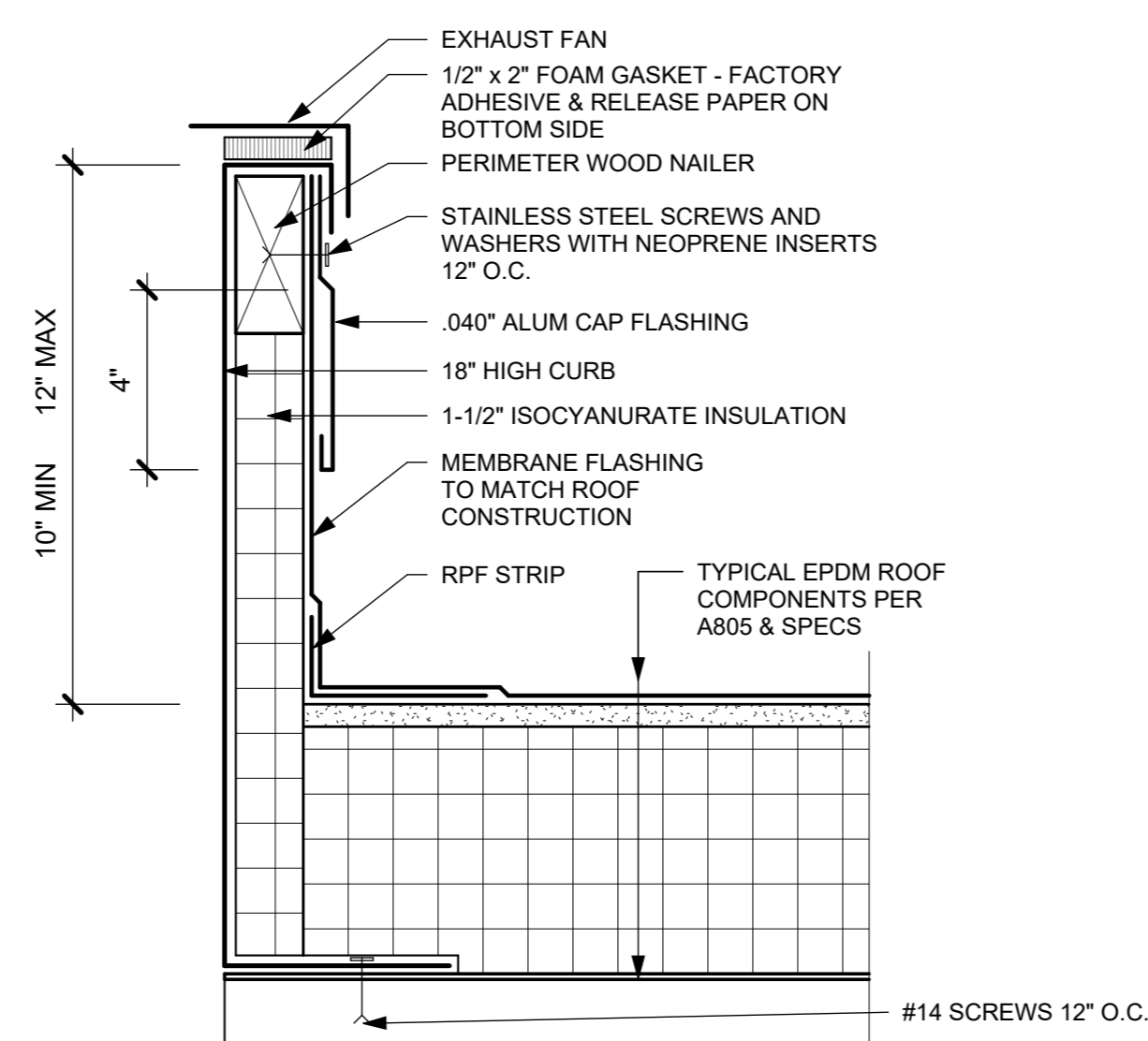
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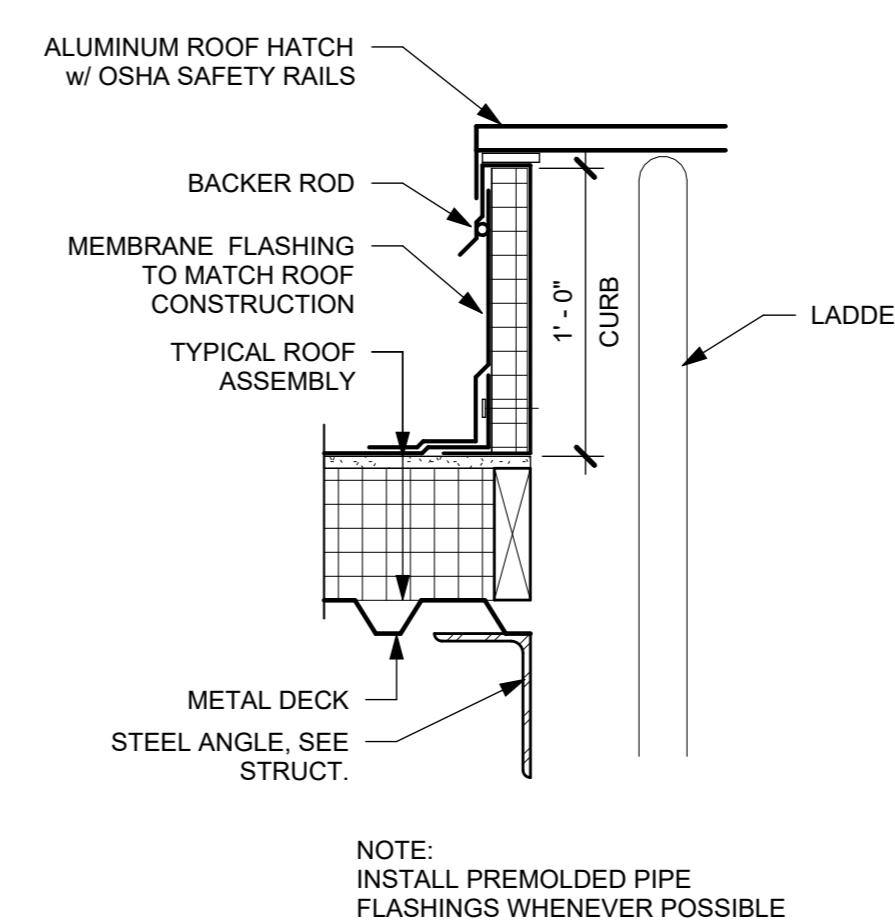
CONSTRUCTION DOCUMENTS



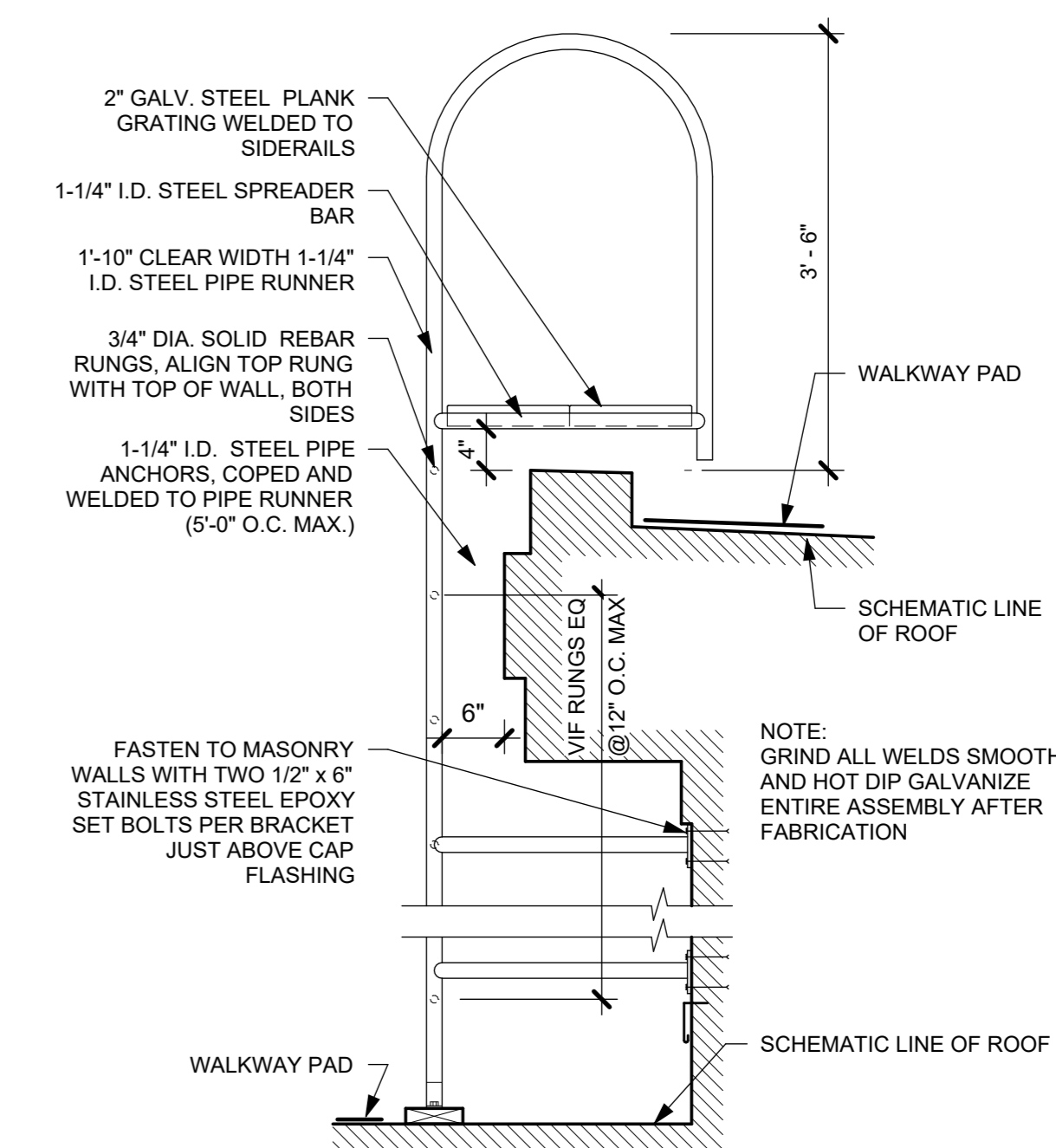
5 TYPICAL VENT PIPE
1 1/2" = 1'-0"



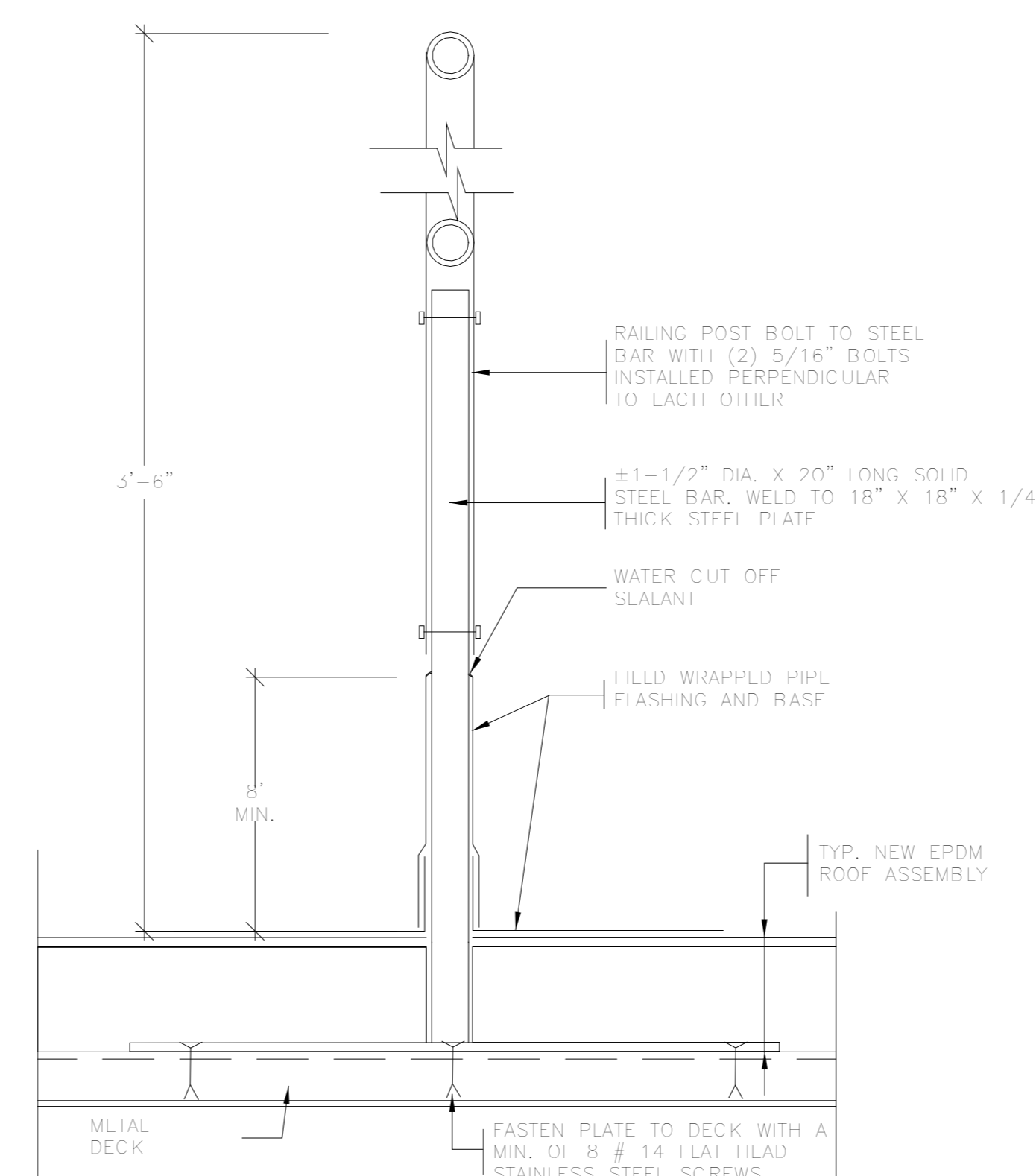
4 TYPICAL EXHAUST FAN SUPPORT CURB
3" = 1'-0"



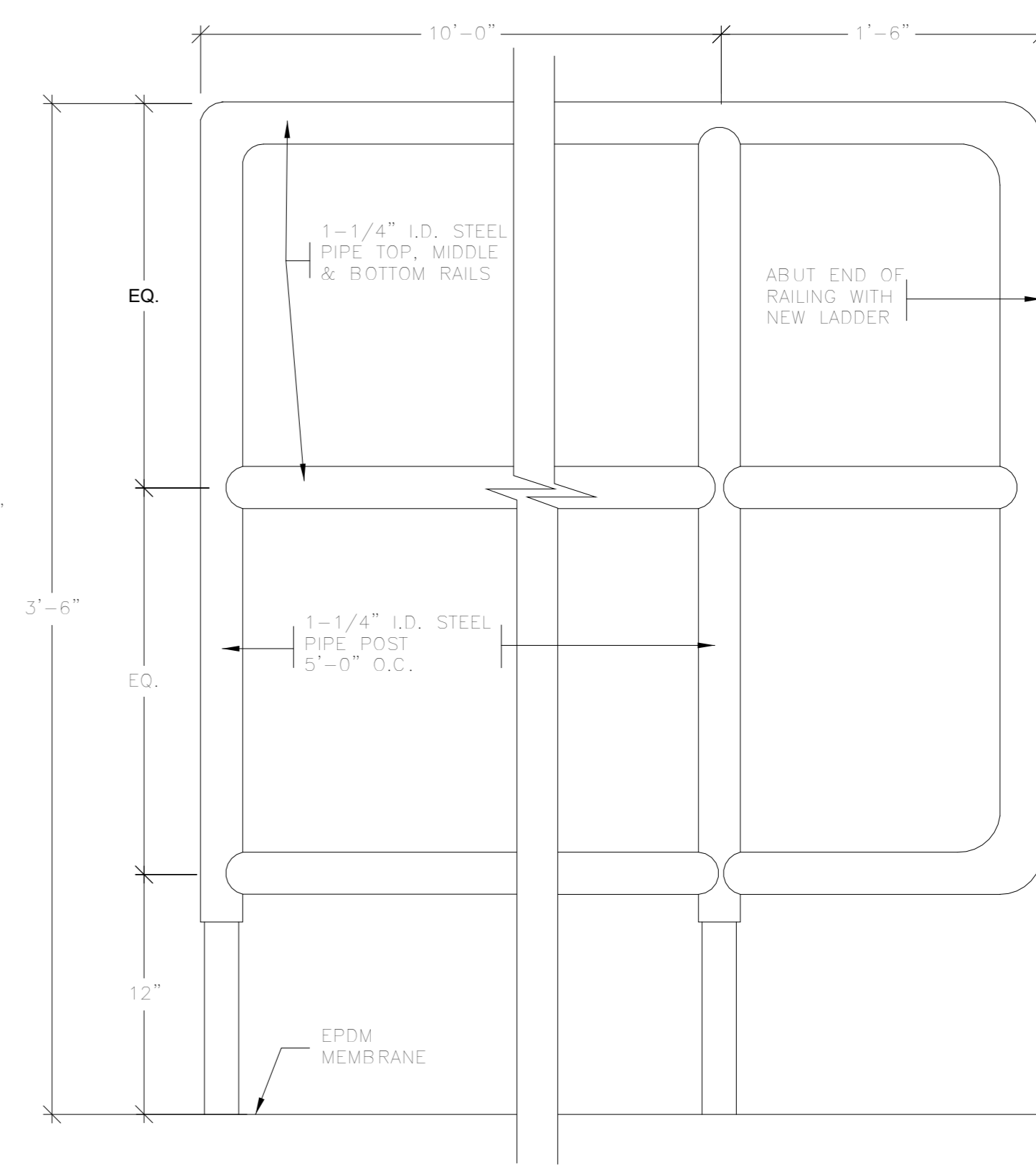
3 TYPICAL ROOF HATCH DETAIL
1 1/2" = 1'-0"



2 TYPICAL OVERHANG LADDER DETAIL
3/4" = 1'-0"



1 TYPICAL DECK MOUNTED ROOF RAILING
3" = 1'-0"



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Sheet Title

**TYPICAL ROOF
SECTIONS &
DETAILS**

Job No. 2020-1005 Date 06/03/24

Scale AS NOTED Drawn / Checked Author / Checker

Sheet Number

A932

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
—	NEW	NEW WORK
○	—	ELBOW UP
⌋	—	ELBOW DOWN
—	—	TEE DOWN
—	—	TEE UP
—	—	PIPE CAP OR FLUSHING CONNECTION
⌋	—	GATE VALVE
⌋	—	OS&Y GATE VALVE
⌋	—	BUTTERFLY VALVE
⌋	—	CHECK VALVE
⌋	—	UNION
⌋	—	TEMPERATURE GAGE
⌋	—	PRESSURE GAGE
⌋	—	WATER FLOW SWITCH
⌋	—	TAMPER SWITCH
⌋	—	INSPECTORS TEST CONNECTION
⌋	—	FLOW ARROW
⌋	—	SPRINKLER GUARD
●	—	NEW PENDENT SPRINKLER, CONCEALED OR EXPOSED AS NOTED.
○	—	NEW UPRIGHT SPRINKLER
⌋	—	SIDEWALL SPRINKLER
⌋	—	POINT OF CONNECTION
⌋	—	POINT OF DISCONNECTION
⌋	—	HYDRAULIC REFERENCE NODE
⌋	—	HYDRAULIC REFERENCE SPRINKLER
⌋	FDC	FIRE DEPARTMENT CONNECTION
⌋	FP	FIRE PUMP
⌋	AAV	AUTOMATIC AIR VENT
⌋	AFF	ABOVE FINISHED FLOOR
⌋	AHC	ABOVE HUNG CEILING
⌋	ATC	AT CEILING
⌋	BFP	BACKFLOW PREVENTOR
⌋	CCDA	DOUBLE CHECK DETECTOR ASSEMBLY
⌋	DCV	DOUBLE CHECK VALVE BFP
⌋	DN.	DOWN
⌋	FCA	FLOOR CONTROL ASSEMBLY
⌋	FD	FLOOR DRAIN
⌋	FLFD	FUNNEL FLOOR DRAIN
⌋	GPM	GALLONS PER MINUTE
⌋	JP	JOCKEY PUMP
⌋	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
⌋	(NO)	NORMALLY OPEN
⌋	(NC)	NORMALLY CLOSED
⌋	NTS	NOT TO SCALE
⌋	PRV	PRESSURE REDUCING VALVE
⌋	PSI	POUNDS PER SQUARE INCH
⌋	RPZ	REDUCED PRESSURE ZONE BFP
⌋	SF	SQUARE FOOT
⌋	TS	TAMPER SWITCH
⌋	TYP	TYPICAL
⌋	U.O.N.	UNLESS OTHERWISE NOTED

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

GENERAL NOTES

- THE NEW SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN EXPERIENCED FIRE PROTECTION CONTRACTOR IN STRICT ACCORDANCE WITH NFPA-13, THE REQUIREMENTS OF THE LANDLORD, LANDLORD'S FIRE INSURANCE UNDERWRITER, AND ALL GOVERNMENTAL AGENCIES AND AUTHORITIES HAVING JURISDICTION OVER THE PREMISES.
- COORDINATE ALL WORK WITH OTHER TRADES TO MINIMIZE INTERFERENCES WITH NEW FACILITIES, TO FACILITATE TIMELY COMPLETION AND AVOID NECESSITY FOR CUTTING AND PATCHING. FURNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION, WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK. ALL CONFLICTS, OBSTRUCTIONS AND/OR MODIFICATIONS TO THE SPRINKLER DESIGN LAYOUT DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
- CONTRACTOR SHALL CONDUCT HYDRANT FLOW TEST TO ESTABLISH EXACT FLOW AND PRESSURE AVAILABLE ON THE SITE FOR PREPARATION OF HYDRAULIC CALCULATIONS. HYDRANT FLOW TEST SHALL BE CONDUCTED ON TWO HYDRANTS ON THE SITE WATER MAIN SERVING THE BUILDING FLOWING A MINIMUM OF 500 GPM.
- ALTER PIPING AS REQUIRED TO SUIT CEILING HEIGHTS, DUCTWORK, AND LIGHTS. PROVIDE AT NO EXTRA COST ALL ADDITIONAL PIPING AND FITTINGS REQUIRED TO OFFSET SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT, BEFORE INSTALLING WORK.
- WHEN INSTALLING SPRINKLER HEADS, THE CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE BRANCH LINE CONNECTION. MINIMUM 1" FOR TWO HEADS, 1-1/4" FOR THREE HEADS AND 1-1/2" FOR FIVE HEADS.
- EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED AS FOLLOWS: LOCATED WITH TOLERANCE ± 1/2" OF THE CENTERLINE OF THE TILES.
- INSTALL SPRINKLER HEADS TIGHT TO BOTTOM OF HUNG CEILING WITH CARE THAT THE FINISH IS NOT DAMAGED.
- WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED, THE COVER PLATES WILL BE FLUSH WITH THE CEILING PLANE TO LIMIT SHADOW EFFECT. TOLERANCE GREATER THAN ± 1/8" IS UNACCEPTABLE.
- PROVIDE TWO 2-1/2 GALLON PRESSURIZED WATER AND ONE 10 LB ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE DURING CONSTRUCTION.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH A LISTED FIRE STOPPING ASSEMBLY OR MATERIAL.
- ALL HOSE CONNECTION AND FIRE DEPARTMENT CONNECTION THREADS SHALL BE TESTED TO VERIFY COMPATIBILITY WITH THREADS USED BY LOCAL FIRE DEPARTMENT, IN ACCORDANCE WITH NFPA-14 (2016) SECTION 11.3.
- THE CONTRACTOR SHALL MAKE A PROVISION FOR (20) EXTRA SPRINKLERS INCLUDING IMMEDIATE BRANCH PIPING, FITTINGS AND ARM-OVERS. THE CONTRACTOR SHALL COORDINATE WITH FINAL CONFIGURATION OF OPEN AND HUNG CEILINGS, ALL HVAC DUCTWORK AND PIPING AND STRUCTURAL ELEMENTS THROUGHOUT THE AREA OF WORK.
- ALL PIPING INCLUDING HANGER, SUPPORTS, ETC. WITHIN THE GARAGE SHALL BE ROUTED AS HIGH AS POSSIBLE TO MAINTAIN VEHICULAR CLEARANCE THROUGHOUT. REFER TO ARCHITECTURAL DRAWINGS FOR MINIMAL CLEARANCES

EQUIPMENT NOTES

- TAMPER SWITCHES: SHALL BE AS MANUFACTURED BY POTTER ELECTRIC SIGNAL CO. FOR EACH POSSIBLE SHUT-OFF VALVE TYPE:
 - MODEL OSYSU-2 - FOR OS&Y VALVES.
 - MODEL PCVS-2 - FOR BUTTERFLY VALVES.
 - MODEL RBVS - FOR BALL VALVES.
- SPRINKLER PIPING MATERIAL: SHALL BE STANDARD WEIGHT SCHEDULE 40 BLACK STEEL PIPE, SEAMLESS OR WELDED MILD STEEL, CONFORMING TO ASTM A-795/A-83. SCHEDULE 10 PIPING IS NOT PERMITTED FOR PIPING LESS THAN 2".
- FLOOR CONTROL VALVE ASSEMBLY: SHALL BE BASED ON VICTAULIC UMC UNIVERSAL MANIFOLD CHECK ASSEMBLY OR APPROVED EQUAL. WHERE UNIVERSAL MANIFOLD CHECK VALVES ARE SPECIFIED FOR USE IN WET-PIPE SPRINKLER SYSTEMS, AS FLOOR CONTROL MANIFOLDS THEY SHALL BE SPECIFICALLY LISTED FOR SUCH USE. UNIVERSAL MANIFOLD CHECK VALVES SHALL BE DUCTILE IRON CONSTRUCTION, INCORPORATING A CONTROL VALVE, CHECK VALVE, FLOW SWITCH, TEST & DRAIN ASSEMBLY, ADJUSTABLE RELIEF VALVE, AND SYSTEM GAUGES IN ONE COMPACT BODY/FOOTPRINT, AND SHALL BE MANUFACTURED FOR "RIGHT" AND "LEFT"-HAND ORIENTATIONS. THE TEST & DRAIN ASSEMBLY SHALL CONTAIN AN ADJUSTABLE RELIEF VALVE, WITH A RANGE OF 175 TO 310 PSI.
- WATERFLOW ALARM SWITCH: SHALL BE BASED ON POTTER ELECTRIC SIGNAL CO. VSR SERIES. PROVIDE WATERFLOW ALARM SWITCHES WHERE INDICATED ON THE DRAWINGS.
- FIRE DEPARTMENT CONNECTION: SHALL BE BASED ON POTTER ROEMER TWO-WAY FLUSH INLET FIRE DEPT CONNECTION OR EQUAL. AT BUILDING FACADE. COORDINATE STYLE AND LOCATION WITH ARCHITECT. SIAMASE SHALL BE PLACED BETWEEN 18 INCHES AND 36 INCHES ABOVE THE SIDEWALK. FIRE DEPARTMENT CONNECTION SHALL HAVE TWO (2) 3" INTERNALLY THREADED SWIVEL FITTINGS WITH THREADS CONFORMING TO LOCAL FIRE DEPT STANDARDS WITH 4" OUTLET. PROVIDE AUTOMATIC BALL DRIP AT FDC FACE PLATE AND APPLICABLE SIGNAGE.
- ELECTRIC ALARM BELL: SHALL BE SIMILAR TO POTTER ELECTRIC SIGNAL COMPANY, VIBRATING TYPE BELL, MODEL PBA-2410, 24VAC, 10-INCH DIAMETER, STEEL COVER WITH RED POWDER COAT FINISH, UL LISTED/FM APPROVED, SUITABLE FOR OUTDOOR USE, ALL PARTS TO HAVE CORROSION RESISTANT FINISHES. PROVIDE WEATHERPROOF BACKBOX. BELL SHALL MAINTAIN 15dB ABOVE AVERAGE AMBIENT SOUND. WIRING SHALL BE 24V FROM FIRE ALARM CONTROL PANEL.
- AIR VENT: SHALL BE BASED ON POTTER AUTOMATIC AIR VENT MODEL AAV POTTER AIR VENT A. FURNISH AND INSTALL BALL VALVE AND STRAINER. AIR VENT SHALL BE LOCATED AT THE HIGHEST POINT OR TOP OF THE RISER.
- DRY PIPE VALVE ASSEMBLY: SHALL BE BASED ON VICTAULIC CO. FIRELOCK NXT DRY PIPE VALVE COMPLETE WITH INDIVIDUAL 3/4HP COMPRESSOR SERIES 7C7 OR APPROVED EQUAL, QUICK OPENING DEVICE SERIES 746-LPA DRY ACCELERATOR, ALARM PRESSURE SWITCH, AIR SUPERVISORY PRESSURE SWITCH, AIR SUPPLY SYSTEM AND SERIES 750 WATER COLUMN KIT. ALARM AND SUPERVISORY SIGNALS SHALL BE CONNECTED AND PROGRAMMED INTO BUILDING FIRE ALARM SYSTEM. REFER TO DETAILS. SIZE SHALL BE AS INDICATED ON FLOOR PLANS. COMPRESSOR ELECTRICAL: 208 / 1 / 60, CURRENT DRAW: 7.5 AMPS
- SPRINKLERS: REFER TO DRAWING FP-701 FOR SPRINKLER HEAD SCHEDULE.
- FIRE HOSE VALVE (NON-PRESSURE REGULATED): SHALL BE BASED ON CROKER MODEL 5015/5025 OR APPROVED EQUAL, 2-1/2" UL LISTED/FM APPROVED, 300 LB RATED ANGLE HOSE VALVE. HOSE THREADS TO BE COORDINATED WITH LOCAL AUTHORITY HAVING JURISDICTION.
- FIRE HOSE VALVE CABINET: SHALL BE BASED ON POTTER ROEMER FRC8022 SERIES FOR USE WITH 2-1/2" FIRE DEPARTMENT VALVE WITH FULL TEMPERED SAFETY GLASS AND RED LETTERING. REFER TO FLOOR PLANS FOR LOCATIONS.

WATER SUPPLY DATA

DATE:	July 1, 2022
TIME:	-
PERFORMED BY:	WJWW
STATIC PRESSURE AT RESIDUAL FIRE HYDRANT #3013:	68 psi
RESIDUAL PRESSURE AT RESIDUAL FIRE HYDRANT #3013:	62 psi
MEASURED FLOW AT FLOW FIRE HYDRANT #3021:	805 gpm

NOTES:
1. FLOW HYDRANT CONNECTED TO EXISTING 6" WATERMAIN IN CALVERT STREET.

DESIGN CRITERIA

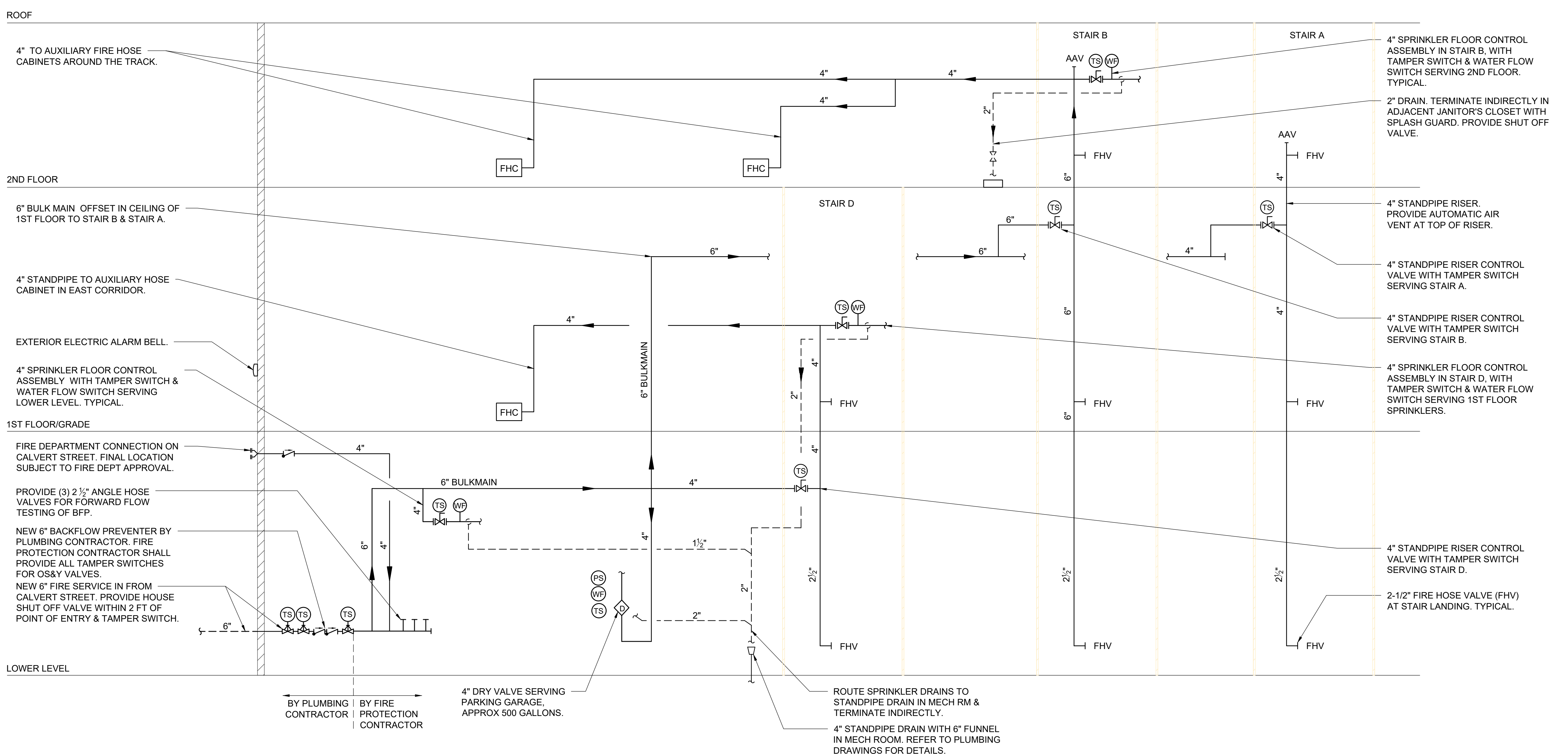
HAZARD CLASSIFICATION ⁽¹⁾	DENSITY ⁽²⁾	PROTECTION AREA PER SPRINKLER ⁽³⁾
LIGHT HAZARD	0.1 GPM / 1500 SQ. FT.	225 SQ. FT. MAX
ORDINARY HAZARD GROUP 1	0.15 GPM / 1500 SQ. FT.	130 SQ. FT. MAX
ORDINARY HAZARD GROUP 2	0.2 GPM / 1500 SQ. FT.	130 SQ. FT. MAX
EXTRA HAZARD GROUP 1	0.3 GPM / 2500 SQ. FT.	100 SQ. FT. MAX
EXTRA HAZARD GROUP 2	0.4 GPM / 2500 SQ. FT.	100 SQ. FT. MAX

NOTES:
1.) HAZARD CLASSIFICATION, DENSITY AND MAX. PROTECTION AREA SHALL BE IN ACCORDANCE WITH NFPA 13 - 2016 RECOMMENDATIONS UNLESS OTHERWISE NOTED.
2.) WHERE REQUIRED BY THE BUILDING DEPARTMENT OR AUTHORITY HAVING JURISDICTION FOR PERMIT, THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY CALCULATED.
3.) THE MINIMUM PRESSURE AT EACH SPRINKLER HEAD SHALL BE 7 PSI.
4.) EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13 - 2016.
5.) DISCHARGE FROM EACH SPRINKLER SHALL NOT BE LESS THAN REQUIRED AREA COVERAGE BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13 SECTION 8.6.2.2.1 (2016).
6.) HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE CONNECTION TO THE WATER MAIN IN THE MUNICIPAL STREET.
FLOW VELOCITY IN SPRINKLER PIPING SHALL NOT EXCEED 20 FEET PER SECOND (FPS).

STANDPIPE DESIGN CRITERIA

CLASSIFICATION:	CLASS I
SYSTEM TYPE:	MANUAL WET
REQUIRED STANDPIPE FLOW DEMAND:	750 GPM
NEAREST FIRE HYDRANT <100 FT.:	CALVERT STREET
REQUIRED DEMAND AT FDC:	750 GPM @ 150 PSI

NOTES:
1. THE FDC FOR FIRE DEPARTMENT ACCESS SHALL BE WITHIN 100 FEET OF HYDRANT LOCATED ON CALVERT ST.
2. MANUAL WET CLASS 1 STANDPIPE SYSTEM SHALL BE PERMITTED IN BUILDINGS NOT CLASSIFIED AS HIGH-RISE BUILDINGS IN ACCORDANCE WITH NFPA 14: §3.3, 15.5, §5.4.1.1.
3. MANUAL WET STANDPIPE SHALL BE SUBJECT TO FINAL APPROVAL BY THE LOCAL FIRE DEPARTMENT & AHJ.



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No. _____ Date _____ Issue _____

FIRE PROTECTION SYMBOLS, ABBREVIATIONS, & NOTES

Job No. NKGD0207.00 Date 03/01/2024
Scale AS NOTED Drawn / Checked HM / RG
Sheet Number

FP-001

1 FIRE PROTECTION RISER DIAGRAM
SCALE: NONE

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Key Plan

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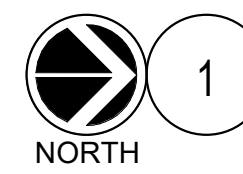
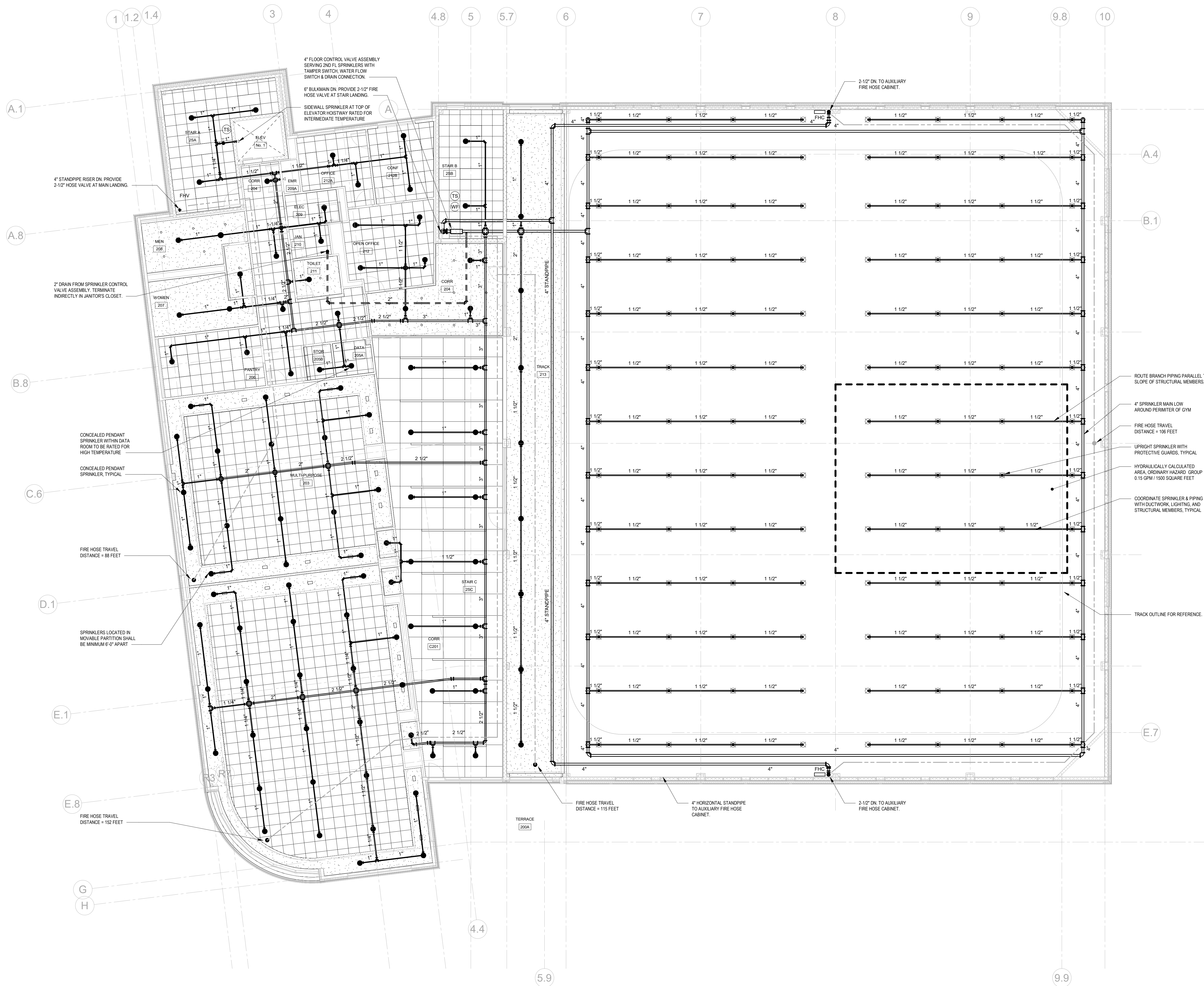
Sheet Title

**FIRE PROTECTION
2ND FLOOR PLAN**

Job No. NKGDD207.00 Date 03/11/2024
Scale AS NOTED Drawn / Checked AM / CD

Sheet Number

FP-203



FIRE PROTECTION 2ND FLOOR PLAN

SCALE: 1/8" = 1'-0"

- NOTES:
1. TAMPER SWITCHES SHALL BE BY SPRINKLER CONTRACTOR, TYPICAL.

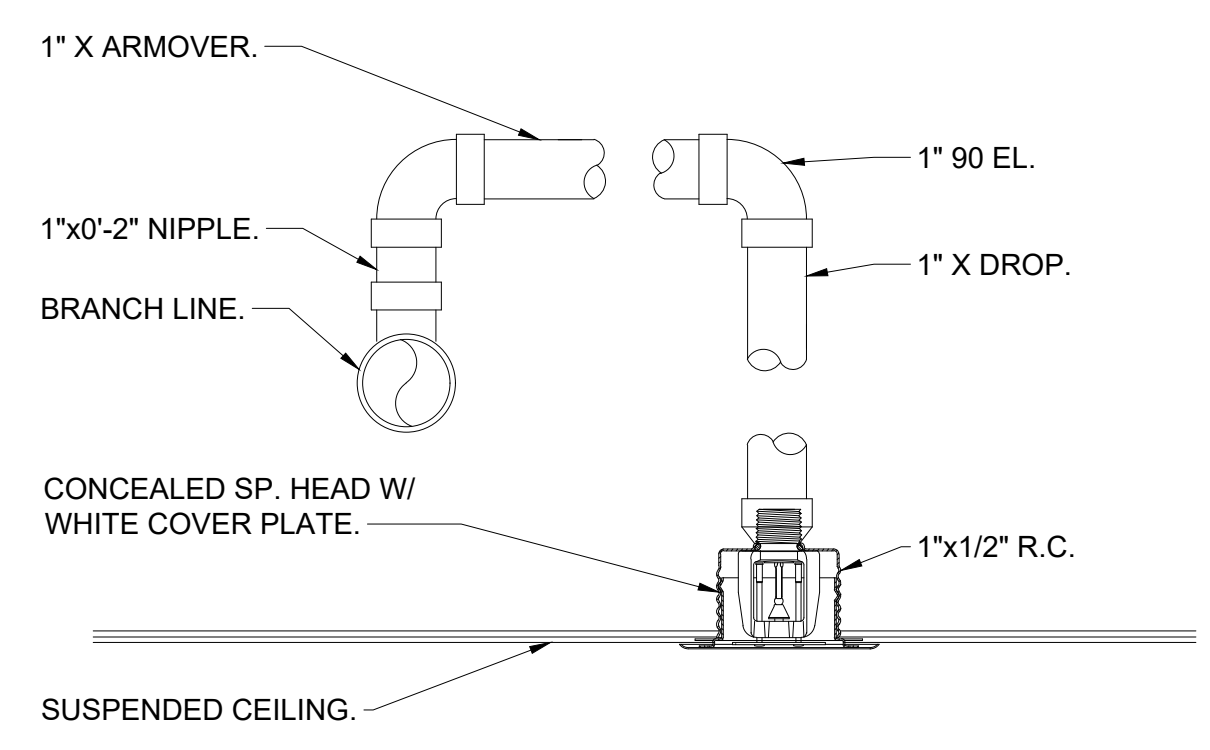
HYDRAULIC CALCULATION DATA	
LOCATION:	SECOND FLOOR
SYSTEM:	MANUAL WET STANDPIPE
DEMAND REQUIREMENTS:	750 GPM AT 135 PSI
AVAILABLE RESIDUAL PRESSURE AT 750 GPM:	62 PSI
REQUIRED PRESSURE BOOST AT FDC:	750 GPM AT 75 PSI

HYDRAULIC CALCULATION DATA	
LOCATION:	2ND FL GYMNASIUM
SYSTEM:	WET
HAZARD CLASSIFICATION:	ORDINARY HAZARD 1
DENSITY:	0.15 GPM / SQ FT
AREA OF APPLICATION:	1500 SF
NO. OF SPRINKLERS CALCULATED:	12
COVERAGE PER SPRINKLER:	130 SQ. FT. MAX.
K-FACTOR:	5.6
OFFICE SIZE (IN):	1/2
SPRINKLER DEMAND REQUIREMENTS:	240 GPM AT 53 PSI
HOSE ALLOWANCE:	250 GPM
TOTAL SPRINKLER:	490 GPM AT 53 PSI
TOTAL SPRINKLER & HOSE DEMAND:	490 GPM AT 66 PSI
AVAILABLE SUPPLY:	490 GPM AT 66 PSI

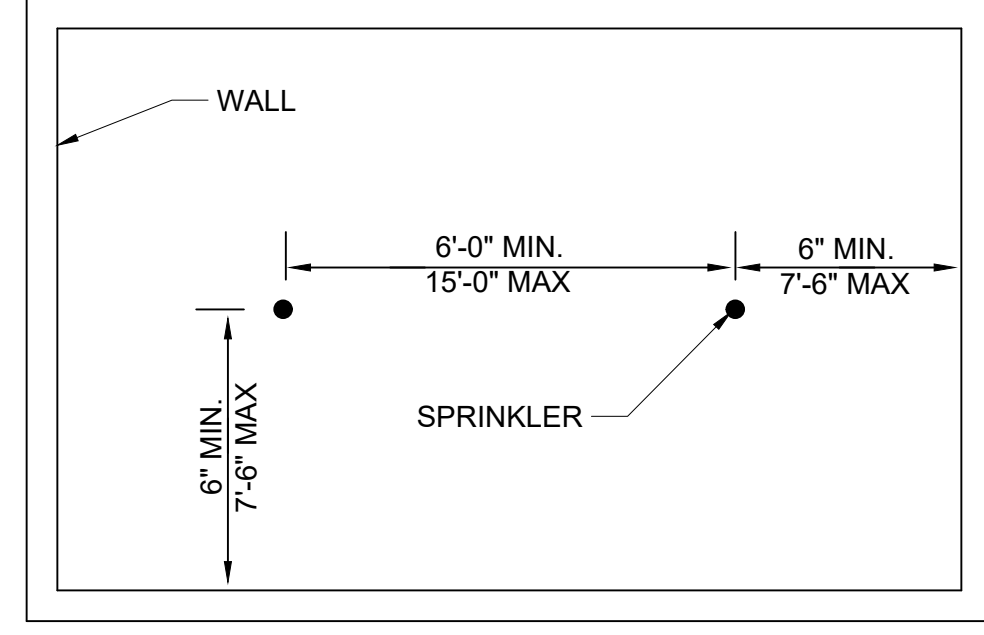
SPRINKLER HEAD SCHEDULE										
SYM.	TYPE	LOCATION	FINISH	MANUF.	MODEL	HEAD TEMP.	MAX CEILING TEMP.	ORIFICE	K-FACTOR	MEA#
⊗	CONCEALED	FINISHED AREAS PER PLANS	COVER PLATE COLOR PER ARCHITECT	RELIABLE	G5-56	165°F	100°F	½"	5.6	258-93-E
⊗	CONCEALED	DATA 111 / DATA 205A	COVER PLATE COLOR PER ARCHITECT	RELIABLE	F1-FR	286°F	225°F	½"	5.6	258-93-E
⊗	CONCEALED	MECH 112A	COVER PLATE COLOR PER ARCHITECT	RELIABLE	G5-56	212°F	150°F	½"	5.6	258-93-E
○	UPRIGHT	EXPOSED AREAS PER PLANS	CHROME PLATED	RELIABLE	F1FR	165°F	100°F	½"	5.6	258-93-E
○	UPRIGHT DRY	EXPOSED AREAS PER PLANS	CHROME PLATED	RELIABLE	F1FR	165°F	100°F	½"	5.6	258-93-E
○	UPRIGHT DRY	MECH B06 / PARKING B01 / MECH 122	CHROME PLATED	RELIABLE	F1-FR	200°	165°F	½"	5.6	258-93-E
◀	DRY SIDEWALL	EXPOSED AREAS PER PLANS	CHROME PLATED	RELIABLE	F3QR	165°F	100°F	½"	5.6	258-93-E
◀	DRY SIDEWALL	ELEV NO. 1 HOISTWAY	CHROME PLATED	RELIABLE	F3QR	200°	165°F	½"	5.6	258-93-E
◀	SIDEWALL	EXPOSED AREAS PER PLANS	CHROME PLATED	RELIABLE	F1-FR	165°F	100°F	½"	5.6	258-93-E
◀	SIDEWALL	ELEV NO. 1 PIT	CHROME PLATED	RELIABLE	F1-FR	200°	165°F	½"	5.6	258-93-E

NOTES:
 1. SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS
 2. PROVIDE METAL WIRE GUARDS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE, SUCH AS SPRINKLER HEADS LOCATED UNDER MECHANICAL DUCTS IN MECHANICAL EQUIPMENT ROOMS WHEN LOCATED LOWER THAN 7'-0" AFF AND HEADS IN TRASH CHUTE.
 3. ALL SPRINKLER HEADS THROUGHOUT THE PROJECT AREA SHALL BE OF THE ORDINARY TEMPERATURE RATING EXCEPT AS FOLLOWS:
 3.1. SPRINKLER HEADS LOCATED CLOSE TO HEATERS, HOT WATER PIPING OR LOW-PRESSURE BLOW-OFF VALVE SHALL BE OF THE TEMPERATURE RATING AS REQUIRED BY NFPA-13.
 3.2. ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR APPROVAL.

11 SPRINKLER HEAD SCHEDULE
SCALE: NONE



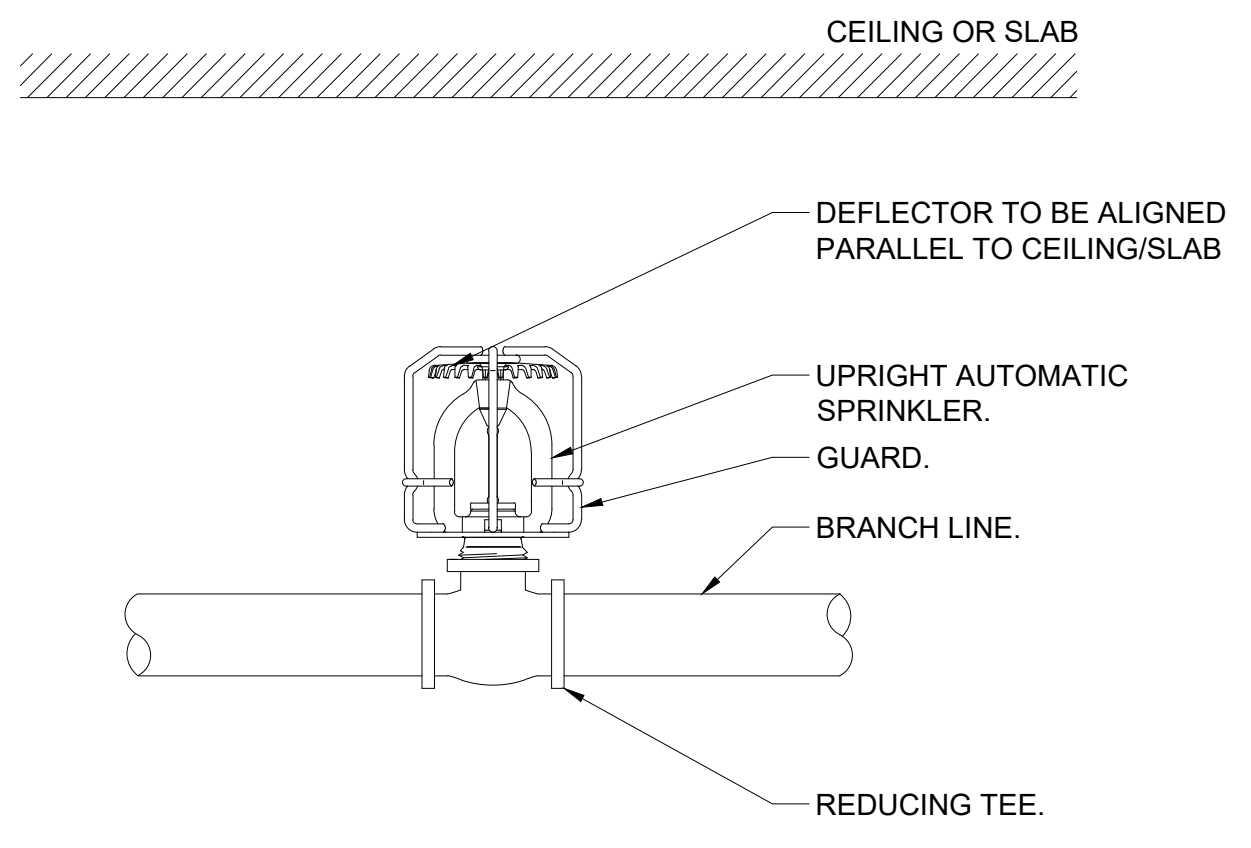
6 TYPICAL CONCEALED PENDENT SPRINKLER
SCALE: NONE



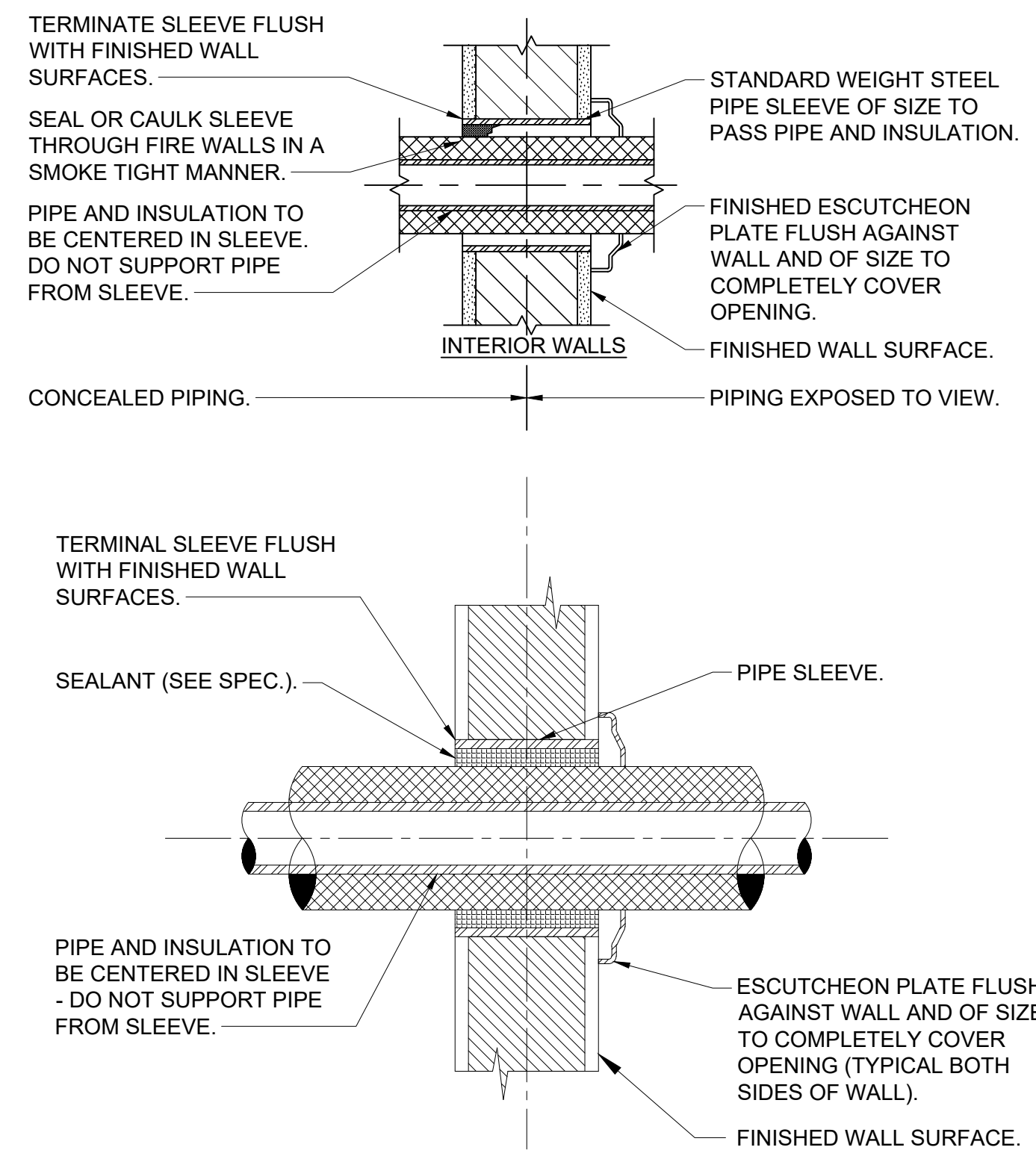
WALL
 6'-0" MIN. 15'-0" MAX.
 6" MIN. 7'-6" MAX.
 SPRINKLER
 6" MIN. 7'-6" MAX.
 6" MIN.
 7'-6" MAX.
 1" X 90 EL.
 1" X DROP.
 1" X 1/2" R.C.
 CONCEALED SP. HEAD W/ WHITE COVER PLATE.
 SUSPENDED CEILING.

MAX AREA PER HEAD
 225 SQ. FT.
 130 SQ. FT.
 DENSITY PER 1500 SQ. FT.
 0.10 GPM/SQ. FT.
 0.16 GPM/SQ. FT.
 LIGHT HAZARD
 ORDINARY HAZARD

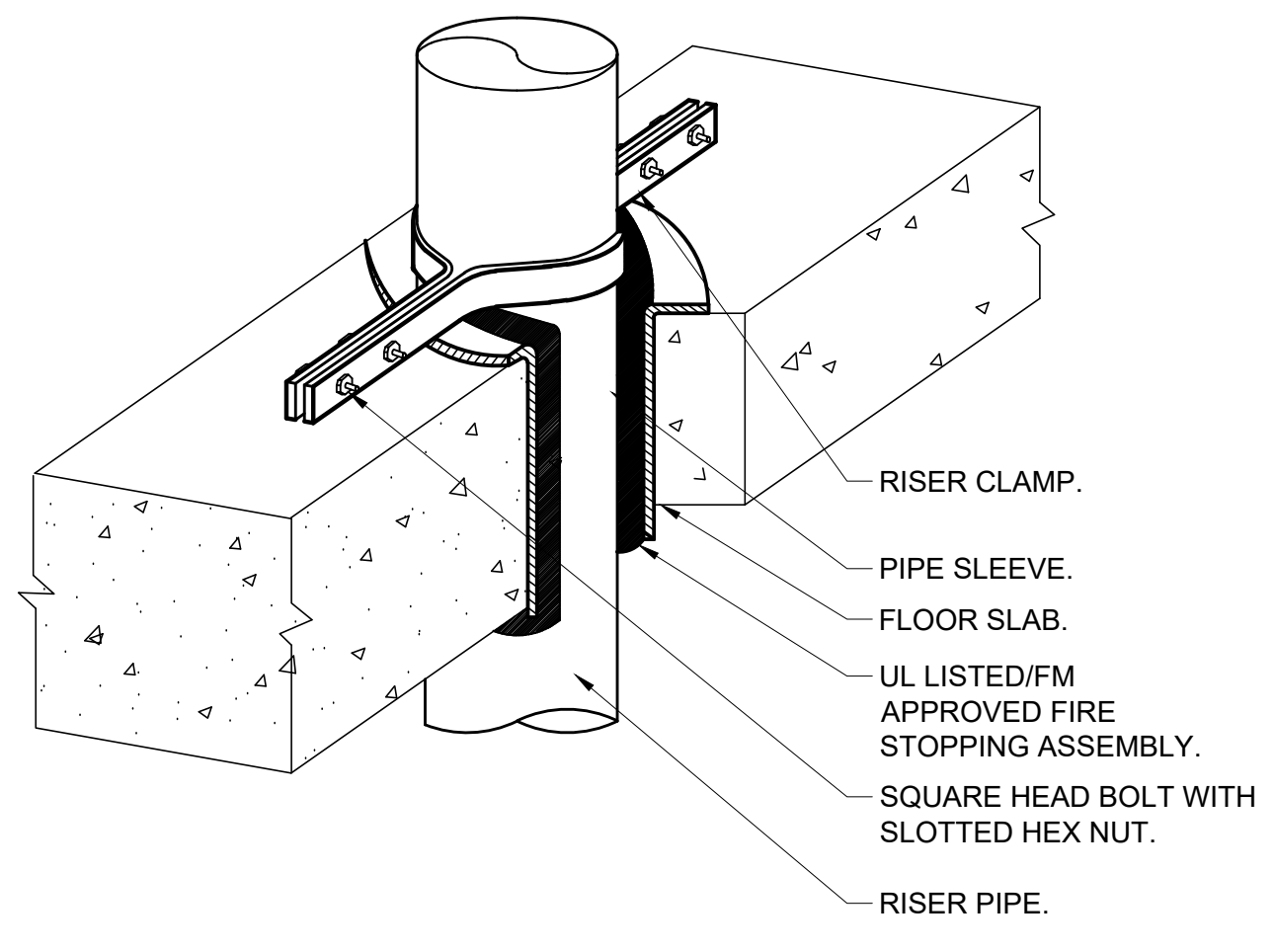
3 SPRINKLER HEAD SPACING CRITERIA
SCALE: NONE



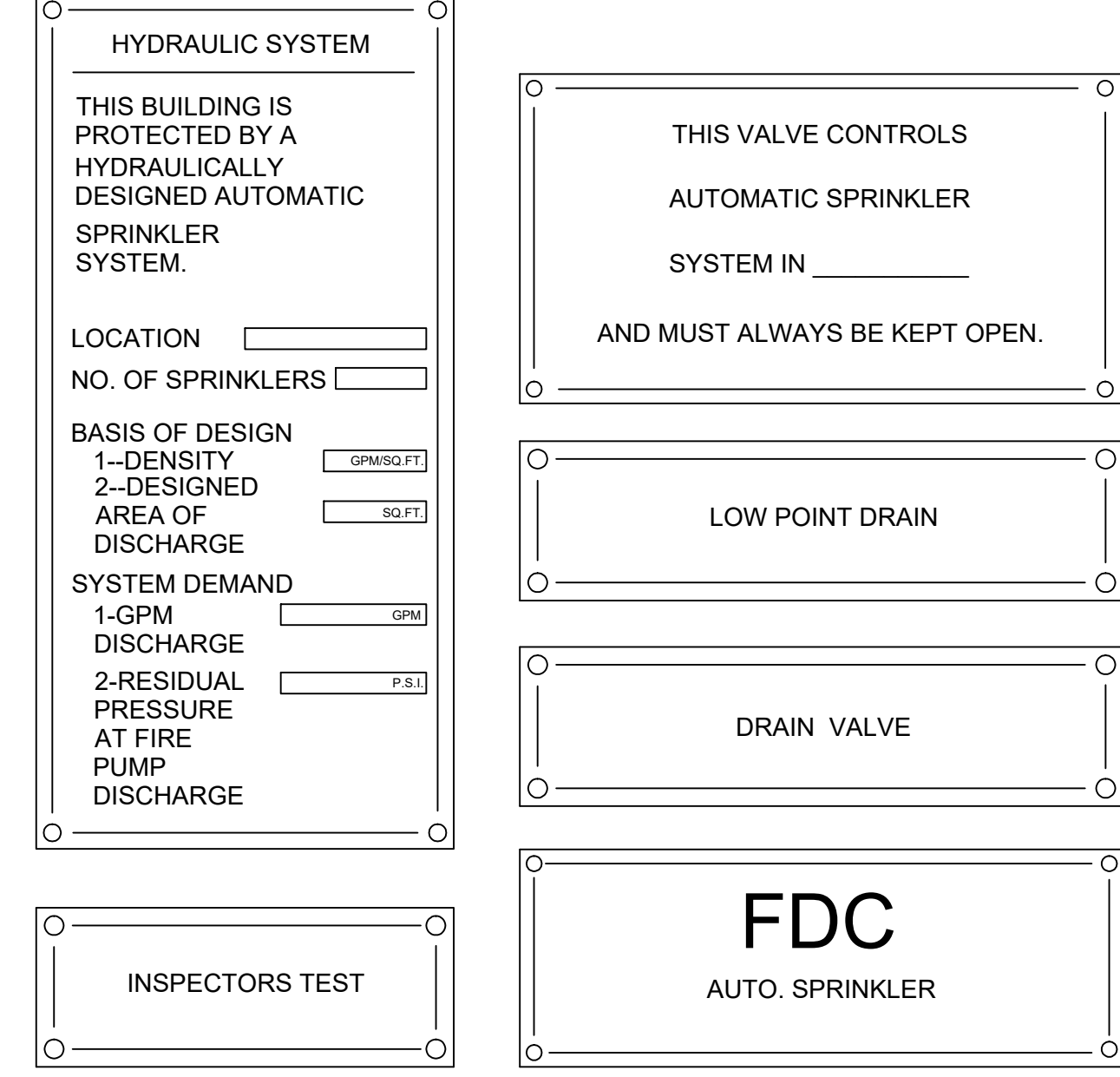
10 TYPICAL UPRIGHT SPRINKLER WITH GUARD
SCALE: NONE



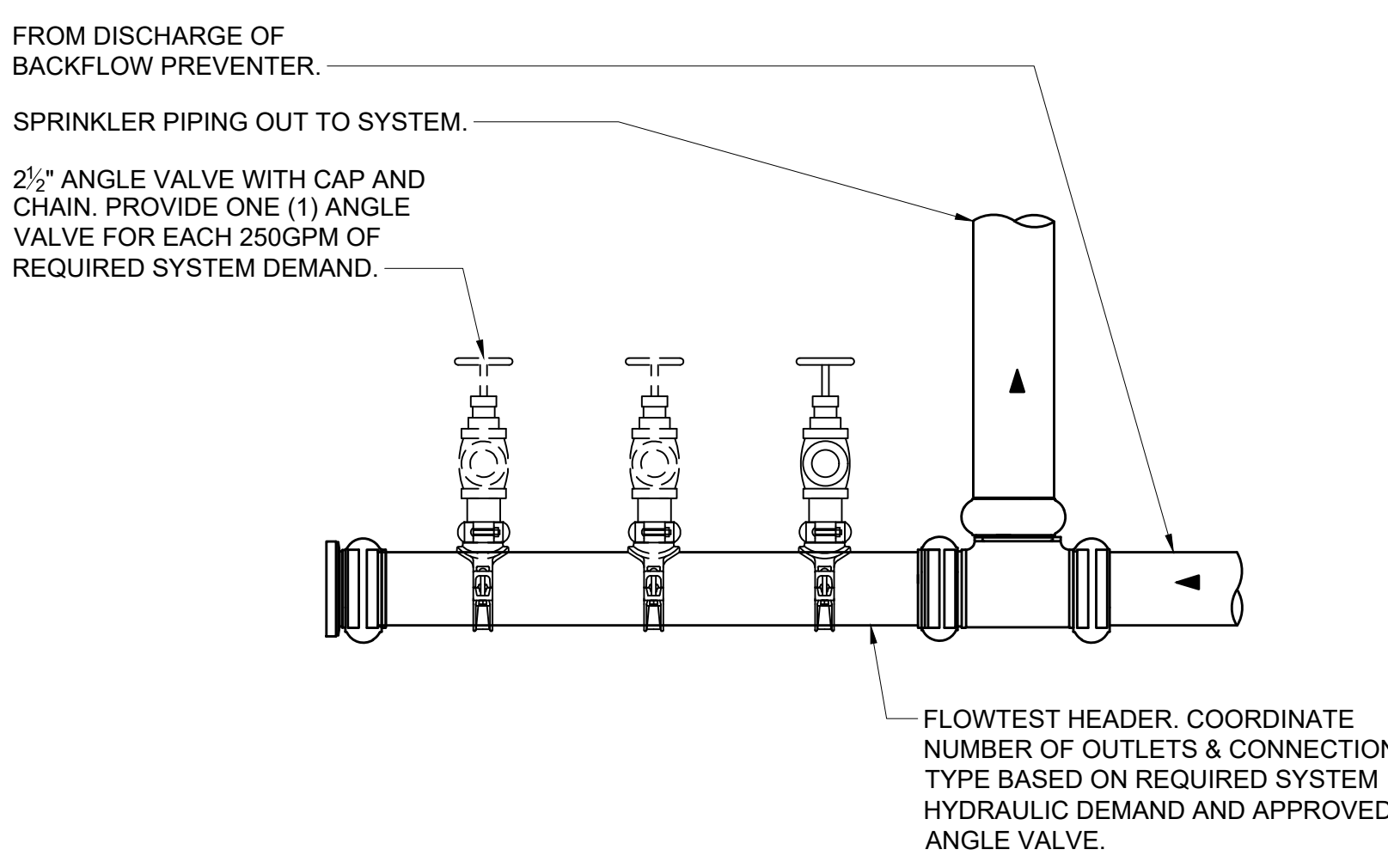
8 PIPE WALL SLEEVE DETAIL
SCALE: NONE



5 PIPE PENETRATION DETAIL
SCALE: NONE

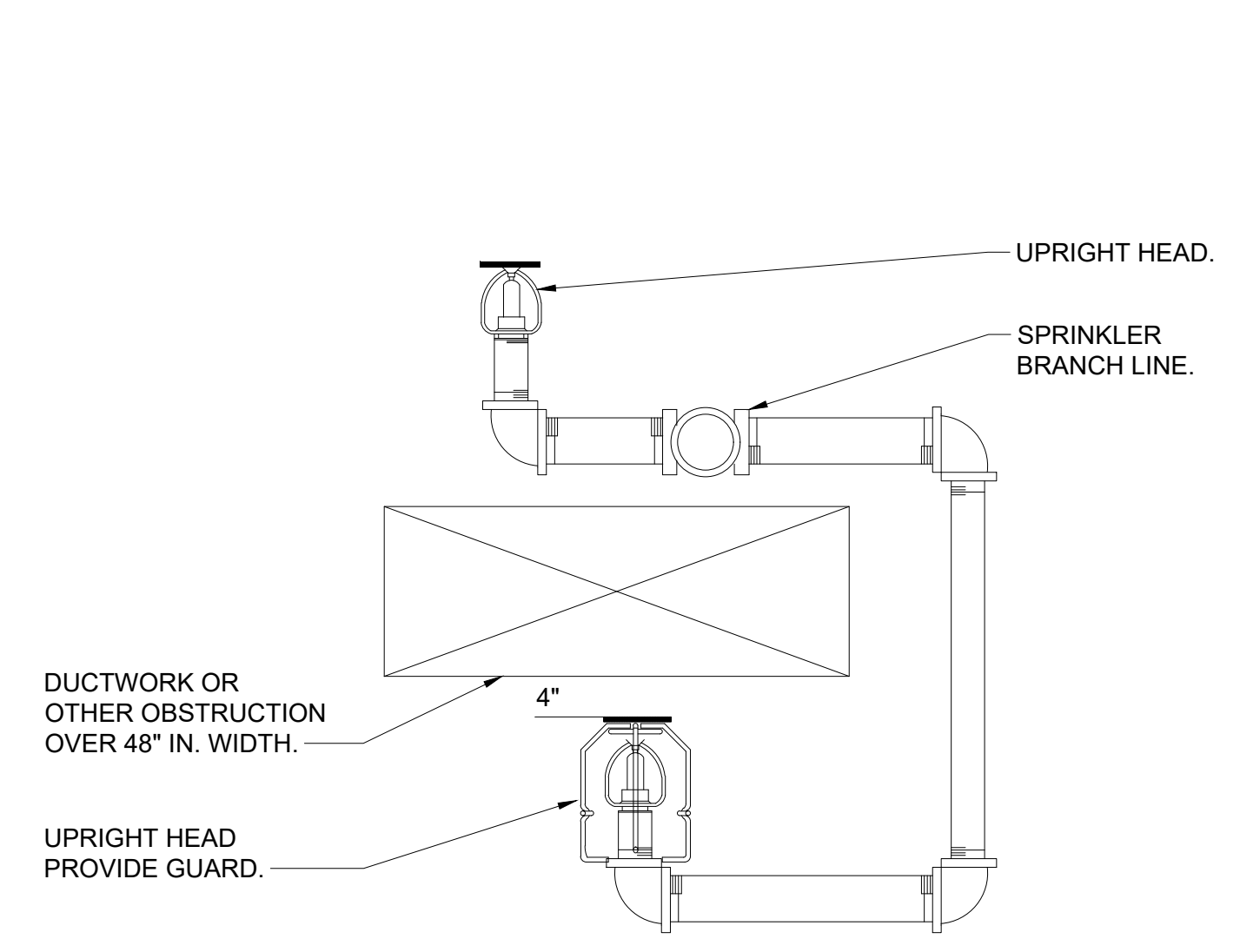


2 TYPICAL SIGNS
SCALE: NONE

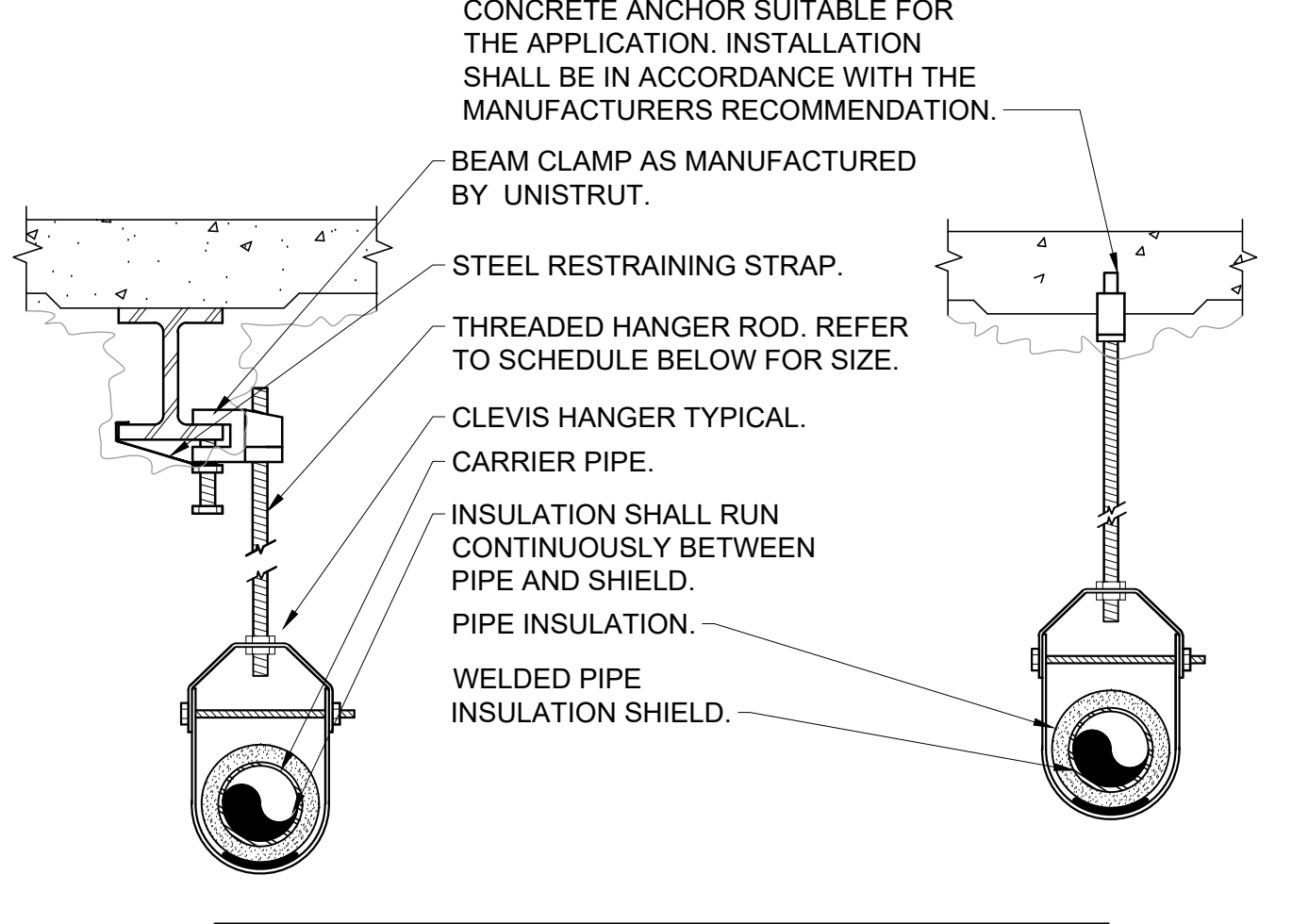


NOTES:
 1. NOT REQUIRED WHERE FULL FORWARD FLOW TEST MAY BE ACCOMPLISHED THROUGH STANDPIPE SYSTEM.
 2. FLOW TEST HEADER SHALL BE 4" MINIMUM SIZE FOR UP TO TWO (2) ANGLE VALVES. MINIMUM 6" FOR THREE (3) - FOUR (4) VALVES.
 3. ANGLE VALVES SHALL BE LISTED FOR FIRE PROTECTION USE AND MAY BE GROOVED OR THREADED INLET.
 4. TEST HEADER SHALL BE SUPPORTED AND BRACED.

9 BACKFLOW PREVENTER SPRINKLER SYSTEM FORWARD FLOW TEST ASSEMBLY
SCALE: NONE



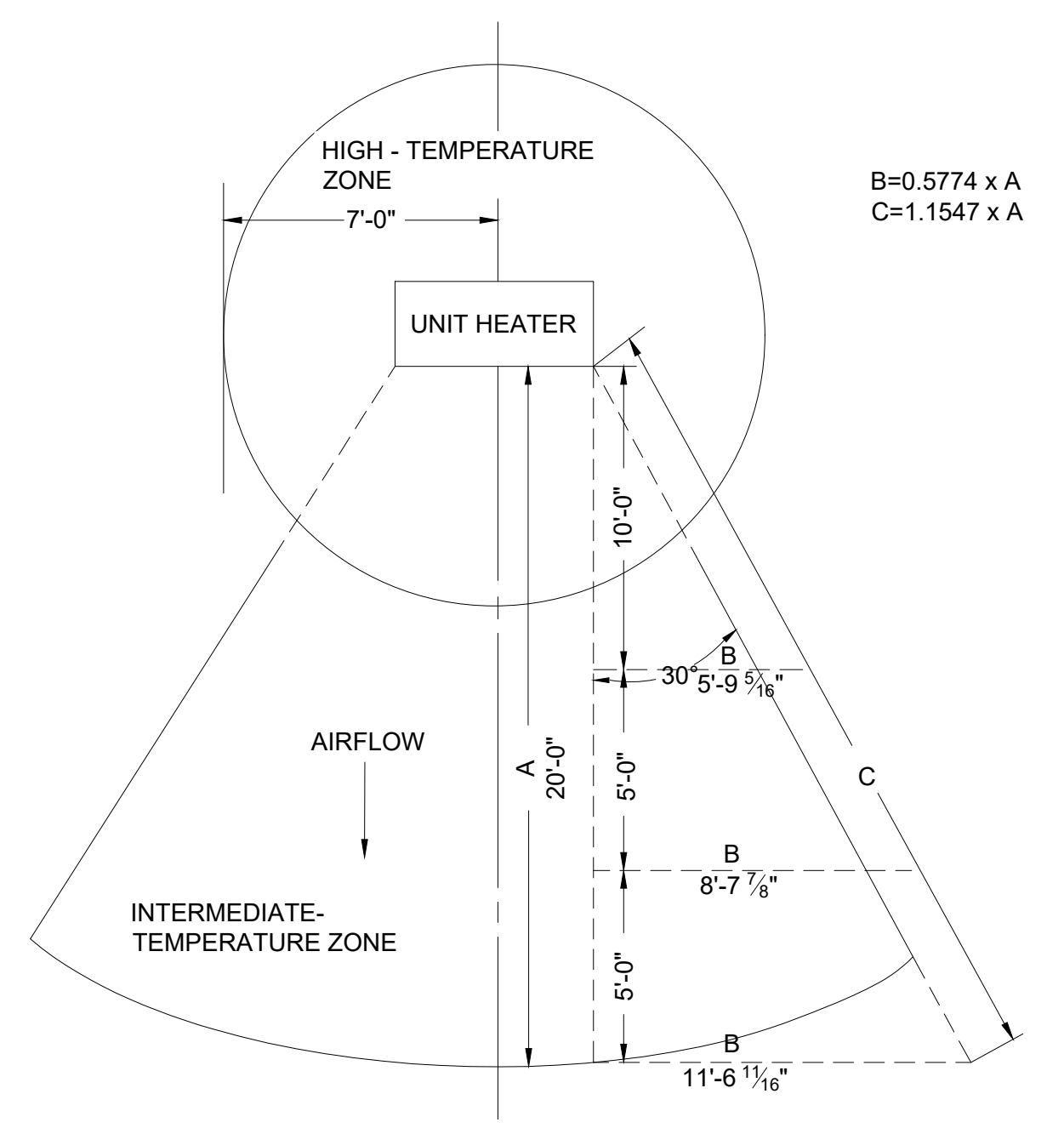
7 SPRINKLER DETAIL ABOVE AND BELOW DUCT DETAIL
SCALE: NONE



PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
 1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS ON ALL PIPES LARGER THAN 1".
 2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED.
 3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
 4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
 5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
 6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

4 PIPE HANGER DETAIL
SCALE: NONE



1 SPRINKLER TEMPERATURE ZONES AT UNIT HEATERS
SCALE: NONE

HARRISON RECREATION & COMMUNITY CENTER
 New Construction - Phase 2
 Town / Village of Harrison
 270 Harrison Avenue
 Harrison, NY 10528

KG+D ARCHITECTS, PC
 285 MAIN STREET- MOUNT KISCO, NEW YORK 10549
 P:914.666.5900 KGDARCHITECTS.COM

OLA Consulting Engineers
 50 Broadway, Hawthorne, NY 10532
 914.747.2800
 8 West 38th Street, Suite 501
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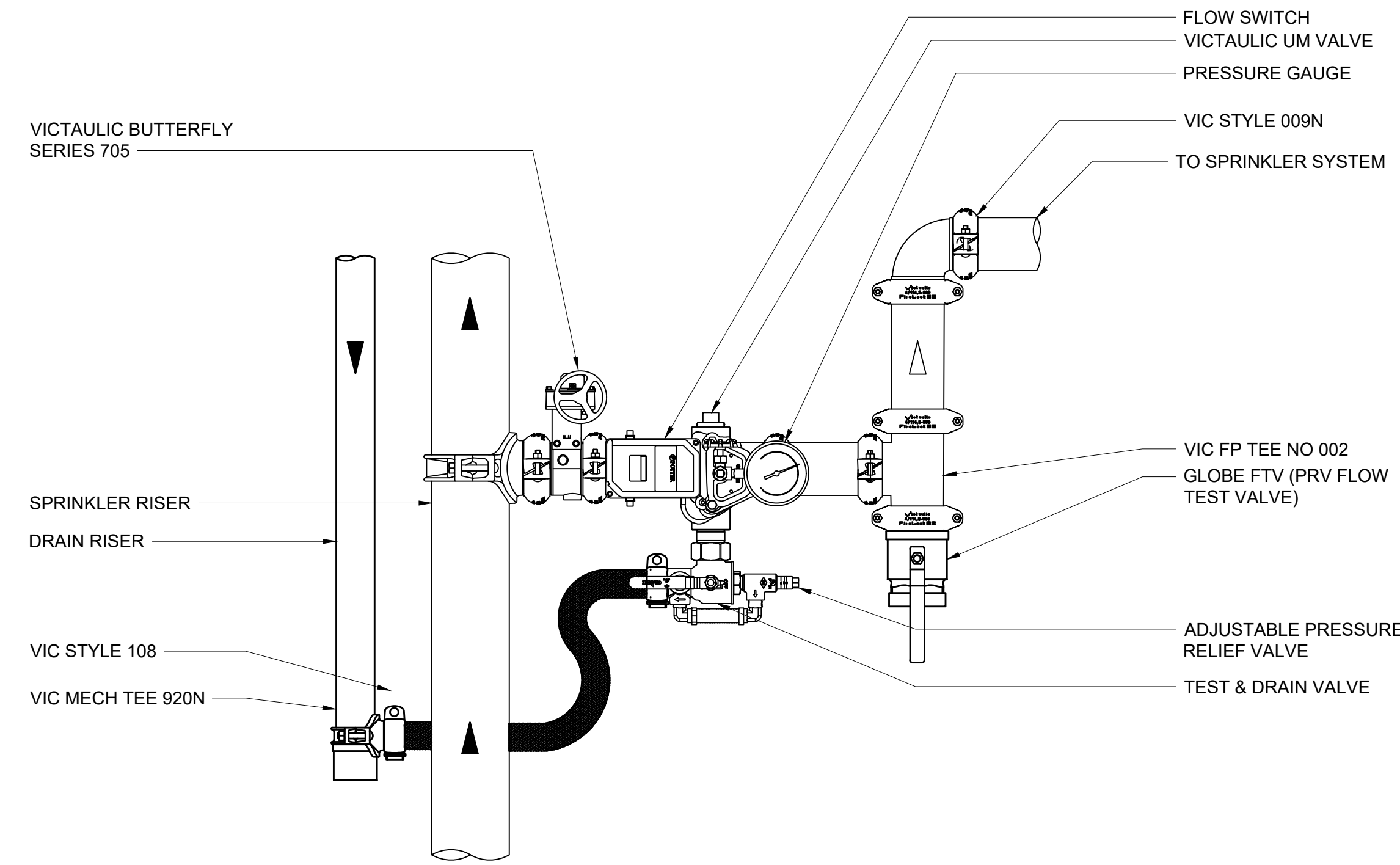
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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

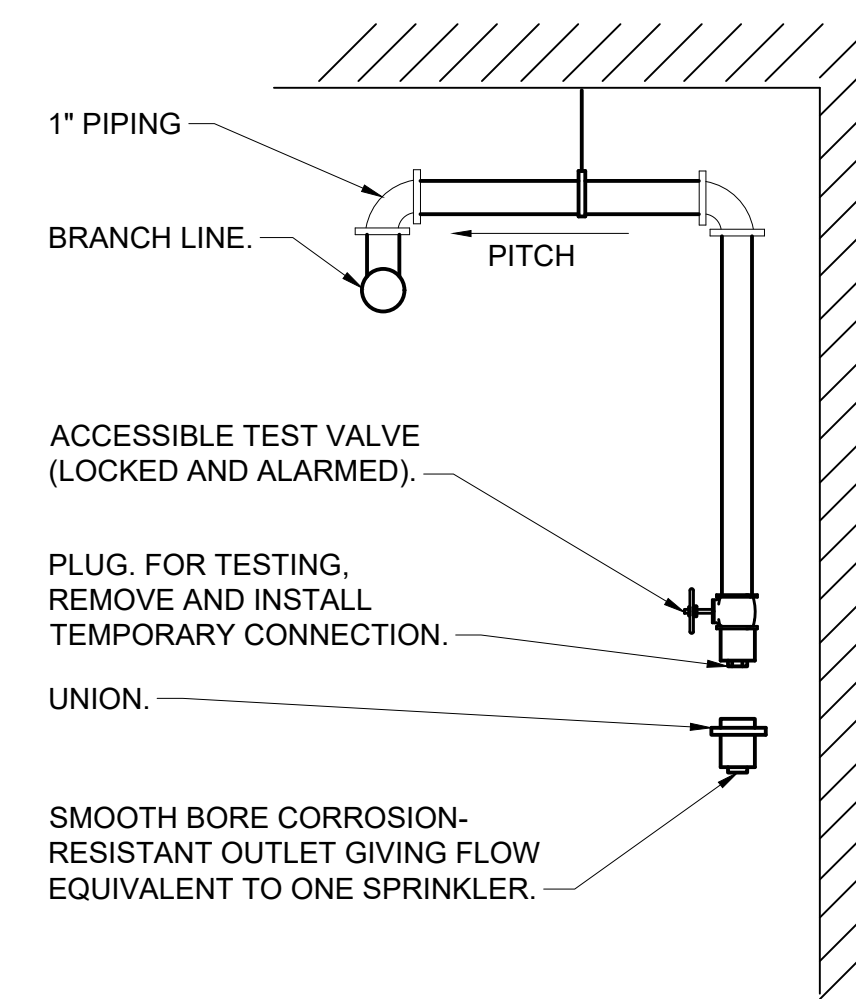
FIRE PROTECTION DETAILS 1 OF 3

Job No. NKGD0207.00 Date 03/01/2024
 Scale AS NOTED Drawn / Checked HM / RG
 Sheet Number
 FP-701



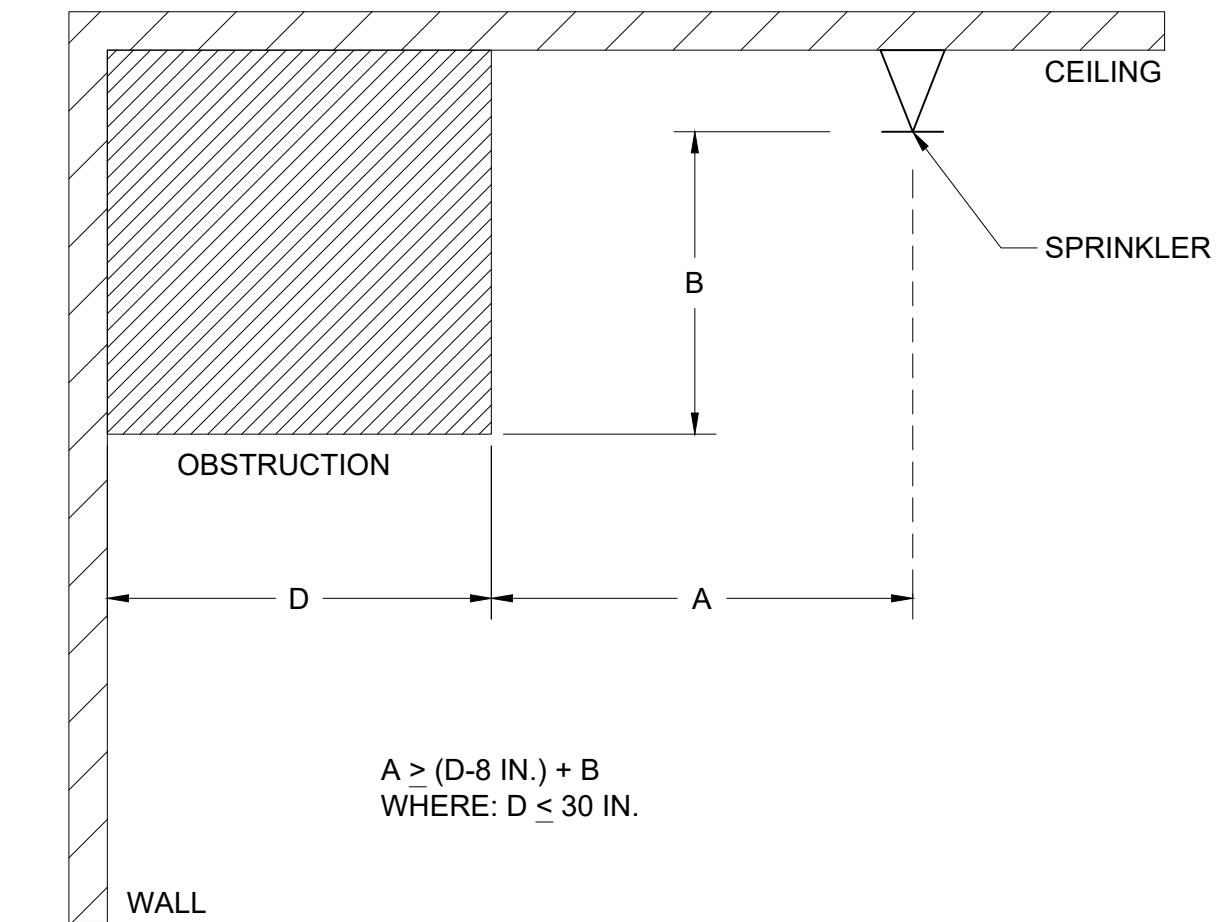
- NOTES:
1. DETAIL BASED ON VICTAULIC SERIES UMC UNIVERSAL MANIFOLD CHECK ASSEMBLY.
 2. FIRE LOCK ZONE CONTROL RISER MODULE WITH PRESSURE REDUCING VALVE SUITABLE FOR HORIZONTAL OR VERTICAL UPFLOW ORIENTATION.
 3. WHERE UNIVERSAL MANIFOLD CHECK VALVES ARE SPECIFIED FOR USE IN WET-PIPE SPRINKLER SYSTEMS, AS FLOOR CONTROL MANIFOLDS THEY SHALL BE SPECIFICALLY LISTED FOR SUCH USE. UNIVERSAL MANIFOLD CHECK VALVES SHALL BE DUCTILE IRON CONSTRUCTION, INCORPORATING A CONTROL VALVE, CHECK VALVE, FLOW SWITCH, TEST & DRAIN ASSEMBLY, ADJUSTABLE RELIEF VALVE, AND SYSTEM GAUGES IN ONE COMPACT BODY/FOOTPRINT, AND SHALL BE MANUFACTURED FOR "RIGHT" AND "LEFT" HAND ORIENTATIONS. THE TEST & DRAIN ASSEMBLY SHALL CONTAIN AN ADJUSTABLE RELIEF VALVE, WITH A RANGE OF 175 TO 310 PSI.

7 SPRINKLER ZONE CONTROL RISER MODULE
SCALE: NONE

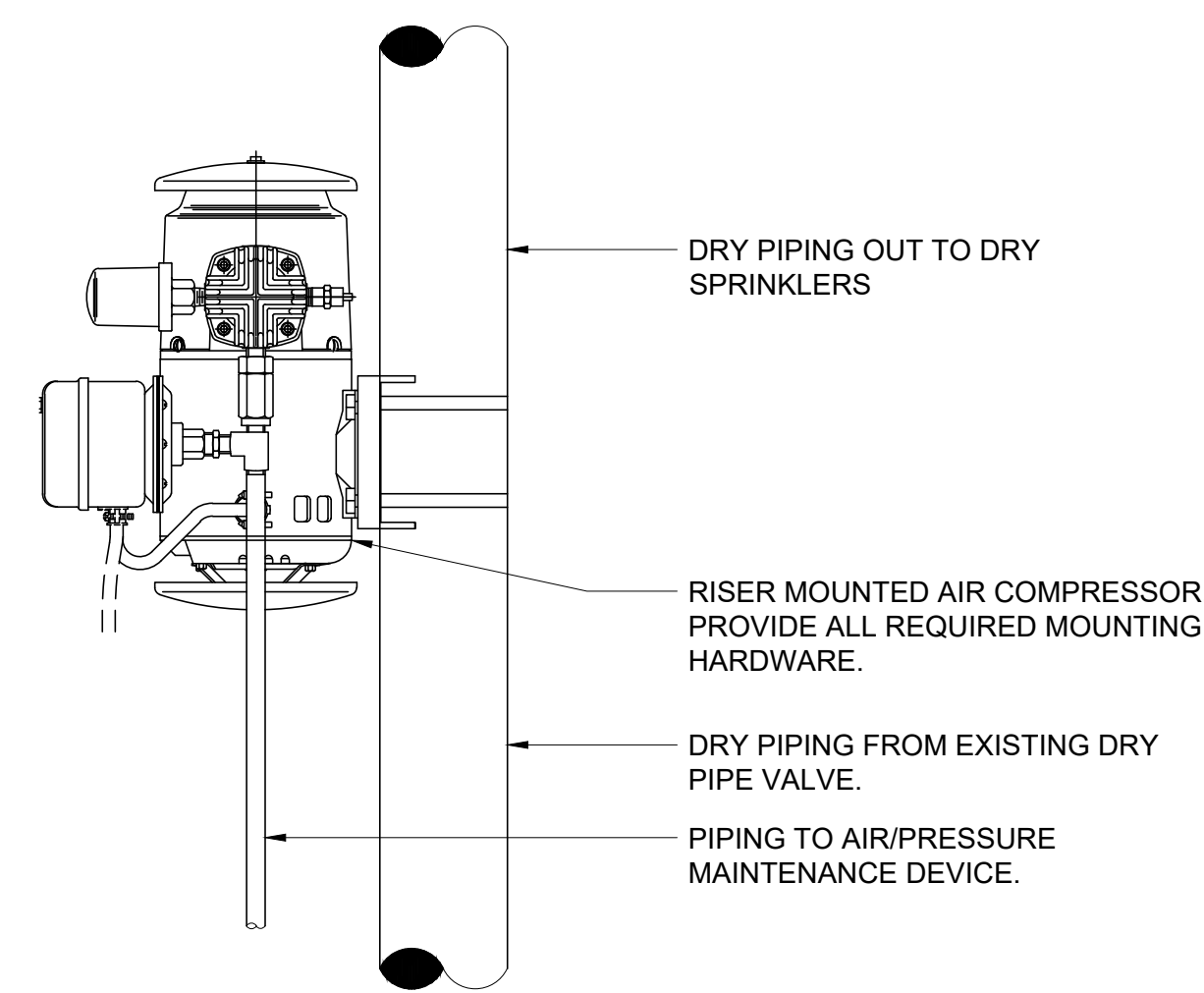


NOTE:
PROVIDE A NIPPLE-UP OFF OF BRANCH LINE TO MINIMIZE CONDENSATION IN TEST DROP.

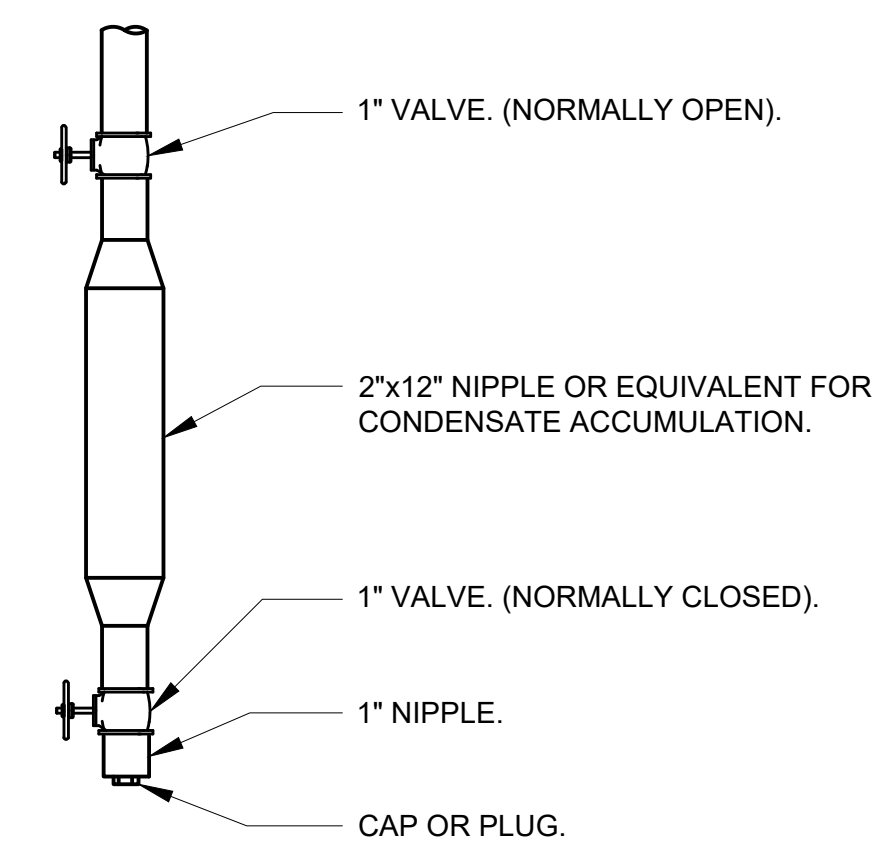
4 DRY SYSTEM INSPECTOR'S TEST
SCALE: NONE



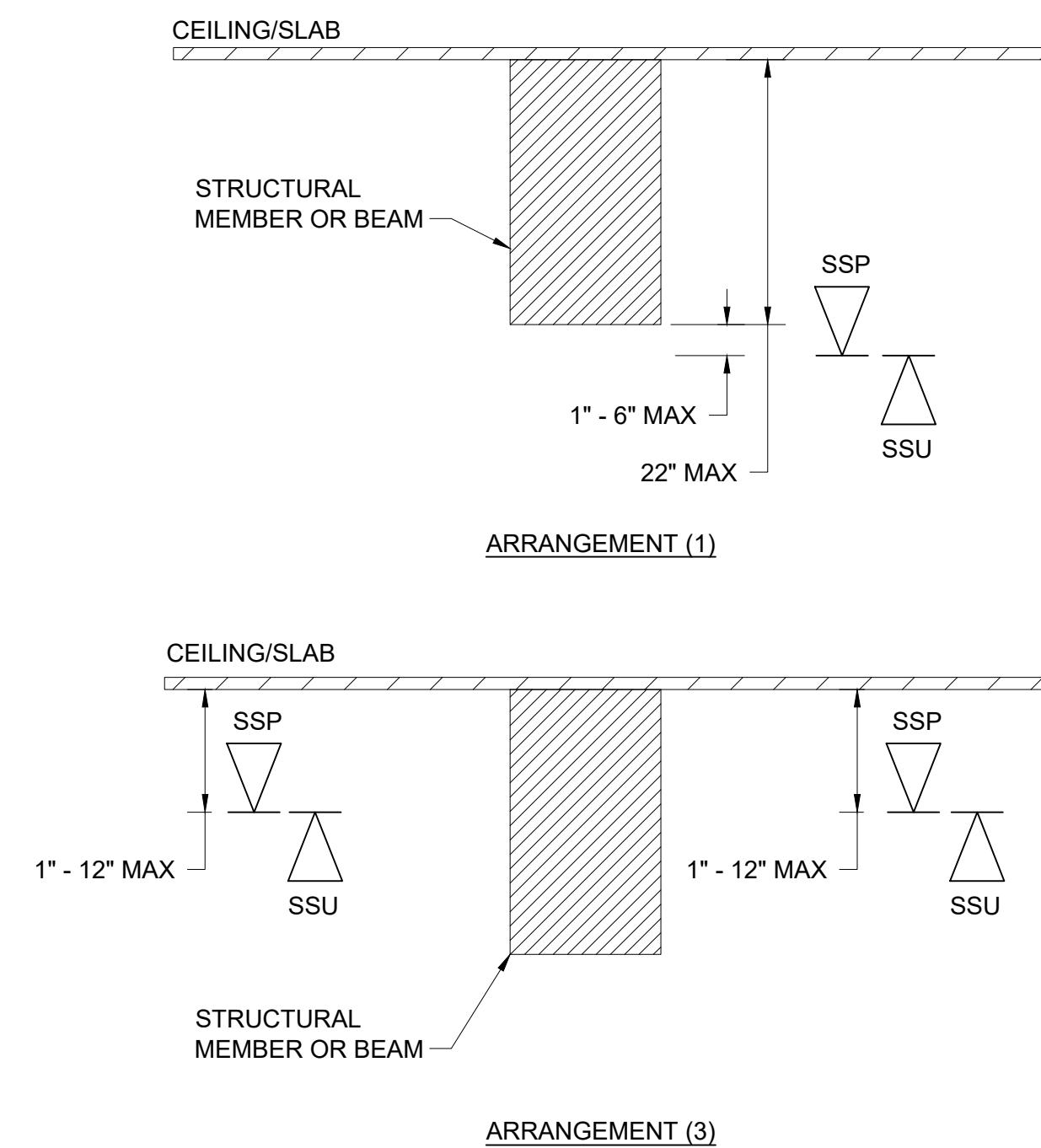
2 OBSTRUCTION AGAINST WALL
STANDARD SPRAY UPRIGHT/PENDENT (SSU/SSP)
SCALE: NONE



6 DRY SYSTEM RISER MOUNTED AIR COMPRESSOR
SCALE: NONE

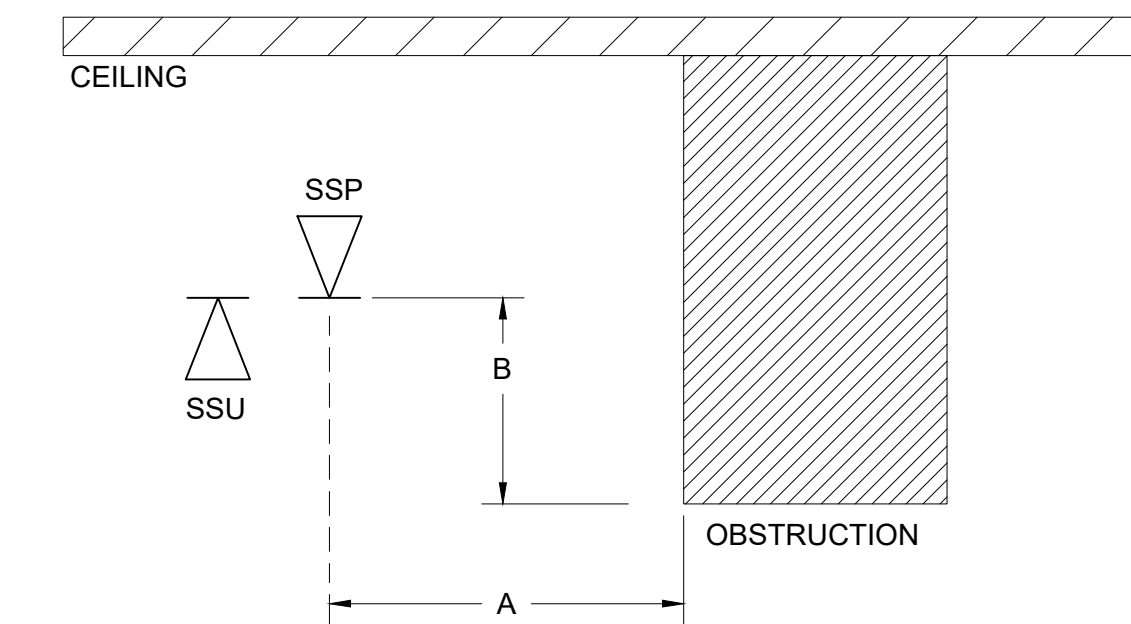


5 DRY SYSTEM LOW POINT DRAIN
SCALE: NONE



- NOTE: SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 REQUIREMENTS FOR SECTION 8.6.4.1.2 - OBSTRUCTED CONSTRUCTION: UNDER OBSTRUCTED CONSTRUCTION, THE SPRINKLER DEFLECTOR SHALL BE LOCATED IN ACCORDANCE WITH ONE OF THE FOLLOWING ARRANGEMENTS:
1. INSTALLED WITH THE DEFLECTORS WITHIN THE HORIZONTAL PLANES OF 1 IN. TO 6 IN. BELOW THE STRUCTURAL MEMBERS AND A MAXIMUM DISTANCE OF 22 IN. BELOW THE CEILING/ROOF DECK
 2. INSTALLED WITH THE DEFLECTORS AT OR ABOVE THE BOTTOM OF THE STRUCTURAL MEMBER TO A MAXIMUM OF 22 IN. BELOW THE CEILING/ROOF DECK WHERE THE SPRINKLER IS INSTALLED IN CONFORMANCE WITH 8.6.5.1.2. REFER TO DETAIL #2.
 3. INSTALLED IN EACH BAY OF OBSTRUCTED CONSTRUCTION, WITH THE DEFLECTORS LOCATED A MINIMUM OF 1 IN. AND A MAXIMUM OF 12 IN. BELOW THE CEILING

3 OBSTRUCTED CONSTRUCTION DETAIL
SCALE: NONE



POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE (SSU/SSP)

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A) (IN.)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (B) (IN.)
LESS THAN 1 FT	0"
1 FT TO LESS THAN 1 FT 6 IN.	2 1/2"
1 FT 6 IN. TO LESS THAN 2 FT	3 1/2"
2 FT TO LESS THAN 2 FT 6 IN.	5 1/2"
2 FT 6 IN. TO LESS THAN 3 FT	7 1/2"
3 FT TO LESS THAN 3 FT 6 IN.	9 1/2"
3 FT 6 IN. TO LESS THAN 4 FT	12"
4 FT TO LESS THAN 4 FT 6 IN.	14"
4 FT 6 IN. TO LESS THAN 5 FT	16 1/2"
5 FT TO LESS THAN 5 FT 6 IN.	18"
5 FT 6 IN. TO LESS THAN 6 FT	20"
6 FT TO LESS THAN 6 FT 6 IN.	24"
6 FT 6 IN. TO LESS THAN 7 FT	30"
7 FT TO LESS THAN 7 FT 6 IN.	36"

NOTE: REFER TO NFPA 13 (2013) TABLE 8.6.5.1.2.

1 OBSTRUCTION TO DISCHARGE (SSU/SSP)
SCALE: NONE

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

FIRE PROTECTION DETAILS 2 OF 3

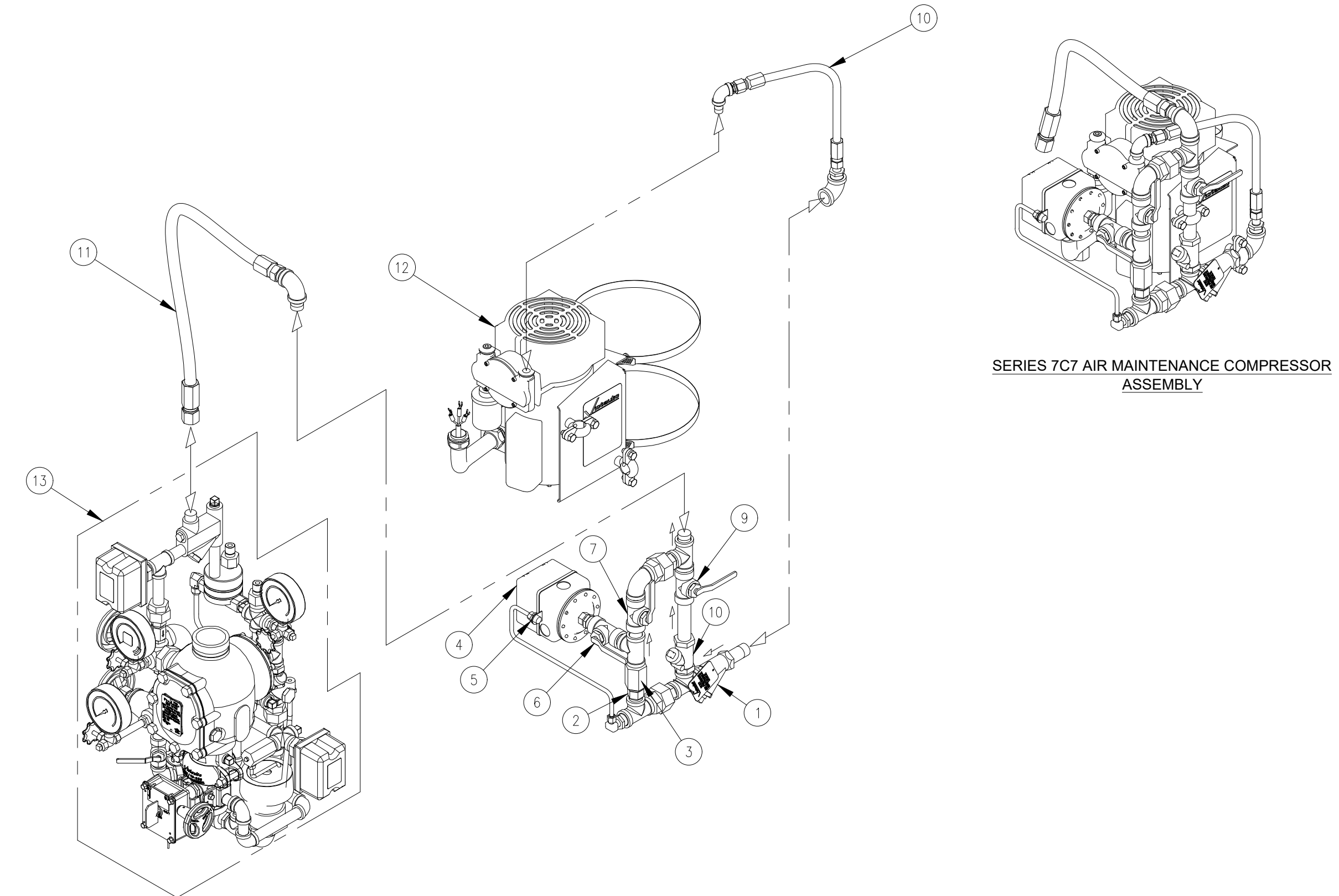
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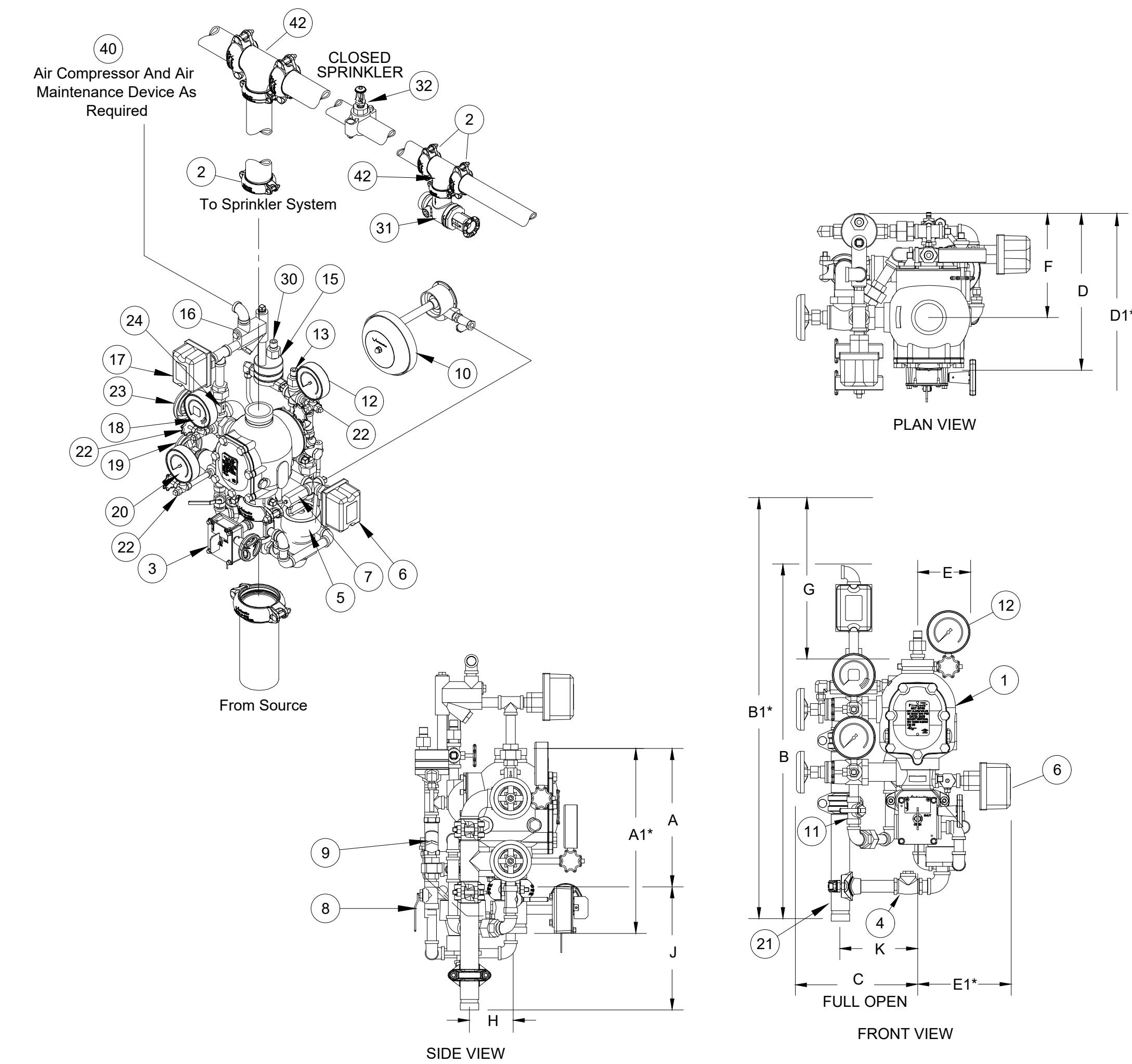
FP-702

PRODUCT LEGEND	
1	STRAINER (1/2-INCH NPT)
2	SPRING-LOADED, SOFT-SEATED CHECK VALVE
3	RESTRICTOR (1/2-INCH NPT)(1/8 RESTRICTOR)
4	PRESSURE SWITCH
5	UNLOADER VALVE
6	PRESSURE SWITCH ISOLATION BALL VALVE (NORMALLY OPEN-LOCKABLE)
7	SLOW-FILL BALL VALVE (NORMALLY OPEN)
8	SWING CHECK (1/2-INCH NPT)
9	FAST FILL BALL VALVE (NORMALLY CLOSED)
10	STAINLESS STEEL BRAIDED FLEX HOSE (1/2-INCH NPT MALE X FEMALE)
11	STAINLESS STEEL BRAIDED FLEX HOSE (1/2-INCH NPT MALE X FEMALE)
12	AIR COMPRESSOR
13	FIRELOCK NXT DEVICE
SEE VICTAULIC SUBMITTAL NUMBER 30 22	



NOTES:
1. EQUIPMENT BASED ON VICTAULIC OR APPROVED EQUAL.
2. * OPTIONAL EQUIPMENT.

2 DRY SYSTEM - AIR MAINTENANCE ASSEMBLY SERIES 7C7
SCALE: NONE



NOTES:
1. EQUIPMENT BASED ON VICTAULIC OR APPROVED EQUAL.
2. * OPTIONAL EQUIPMENT.

1 DRY VALVE ASSEMBLY - VICTAULIC FIRELOCK NXT
SCALE: NONE

PRODUCT LEGEND	
1	Series 788 Firelock NXT Dry Valve (see Submittal 30.80) With Optional Vic Quick Riser
2	Firelock Rigid Couplings 005, 009, 009V
3	Series 705 Butterfly Valve (Optional)
4	Drain Swing Check Valve
5	Drip Cup
6	System Sensor EPS10-2 Alarm Pressure Switch
7	Series 729 Drip Check Valve
8	Diaphragm-Charge-Line Ball Valve (Normally Open)
9	3-in-1 Strainer/Check/Restrictor Assembly
10	Series 760 Water Motor Alarm (Optional)
11	Alarm Test Ball Valve
12	Diaphragm-Charge-Line Pressure Gauge (0-300psi/0-2068kPa)
13	Series 749 Auto Drain
14	Series 746-LPA Dry Accelerator Assembly (Optional)(Not Shown)
15	Series 776 Low-Pressure Actuator
16	Air Manifold
17	EPS-45-2V Supervisory Switch (Optional)
18	System Pressure Gauge (0-80 psi/0-552kPa with Retard)
19	Water Supply Main Drain Valve - Flow Test
20	Water Supply Pressure Gauge (0-300psi/0-2068kPa)
21	Drain Connection Kit (Optional)
22	Gauge Valve
23	System Main Drain Valve
24	Series 748 Ball Check Valve
25	n/a
26	Air Feed Valve Assembly (Not Shown)
27	System Air Line Strainer (Not Shown)
28	n/a
29	n/a
30	Auto Vent for 776 Low Pressure Actuator
31	Series 720 Testmaster
32	Upright Sprinkler - Victaulic Model V2703/V2704
33	n/a
34	n/a
35	n/a
36	n/a
37	n/a
38	n/a
39	n/a
40	Air Maintenance Device Victaulic 757/757P with pressure switch
41	(Optional Series 750 Water Column Drain Kit) not shown
42	Firelock Tee 002
SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS OF APPROVALS UL/FM APPROVED NYC MEA-248-98-E Volume 3	

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

**FIRE PROTECTION
DETAILS 3 OF 3**

Job No.	Date
NKGD0207.00	03/01/2024

Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

FP-703

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Town / Village of Harrison
270 Harrison Avenue
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P:914.666.5900 KG+DARCHITECTS.COM

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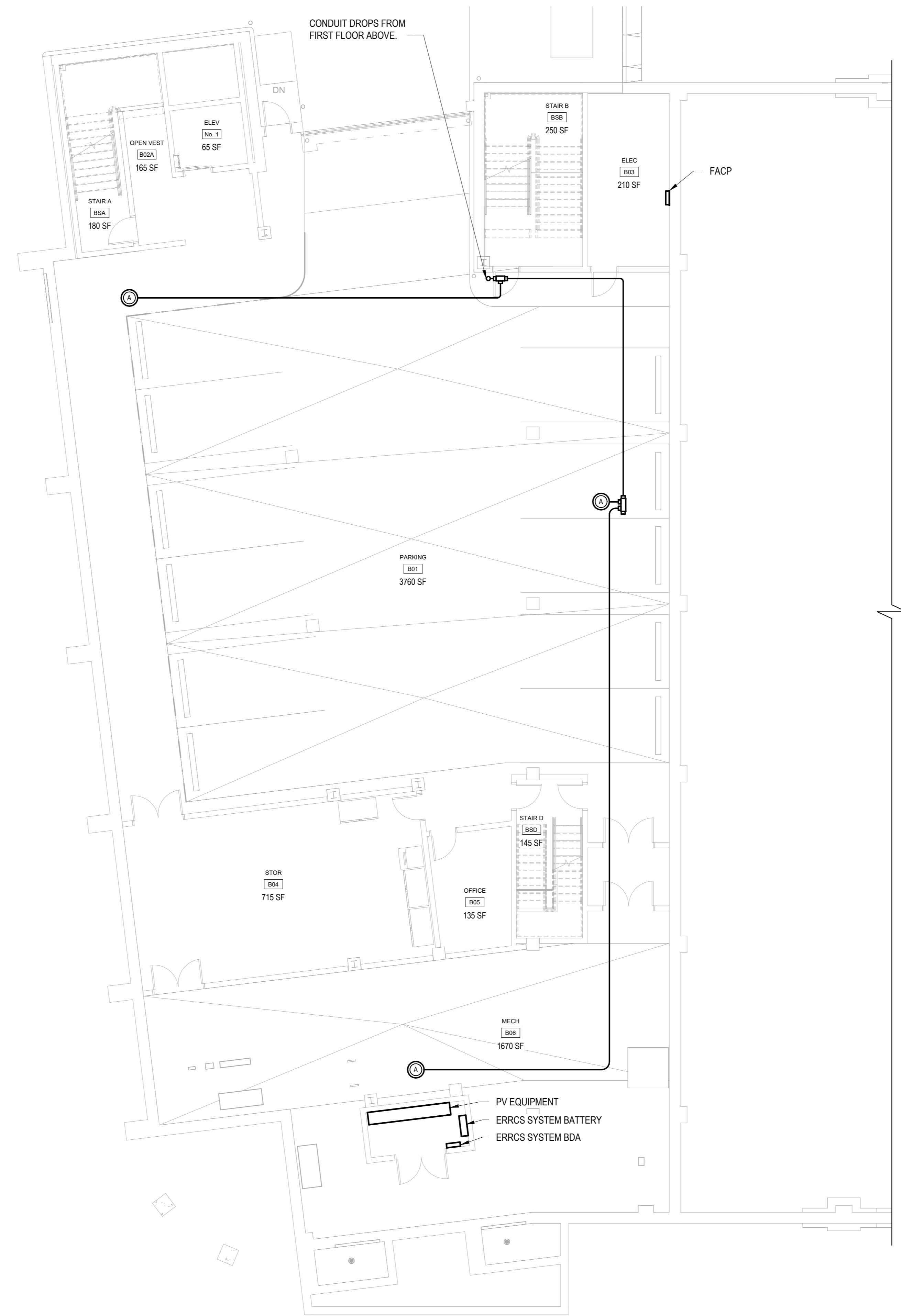
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No.	Date	Issue
7	10/09/2024	CONFORMED SET
2	06/05/2024	ISSUED FOR BID
1	01/16/2024	ISSUED FOR PERMIT

**FIRE RADIO
PARKING LEVEL
PLAN**

Job No. NKG0207.00 Date 01/09/24
Scale AS NOTED Drawn / Checked Author / Checker

Sheet Number
FR-301



1 FIRE RADIO PARKING FLOOR LEVEL PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

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Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



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285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM



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50 Broadway,
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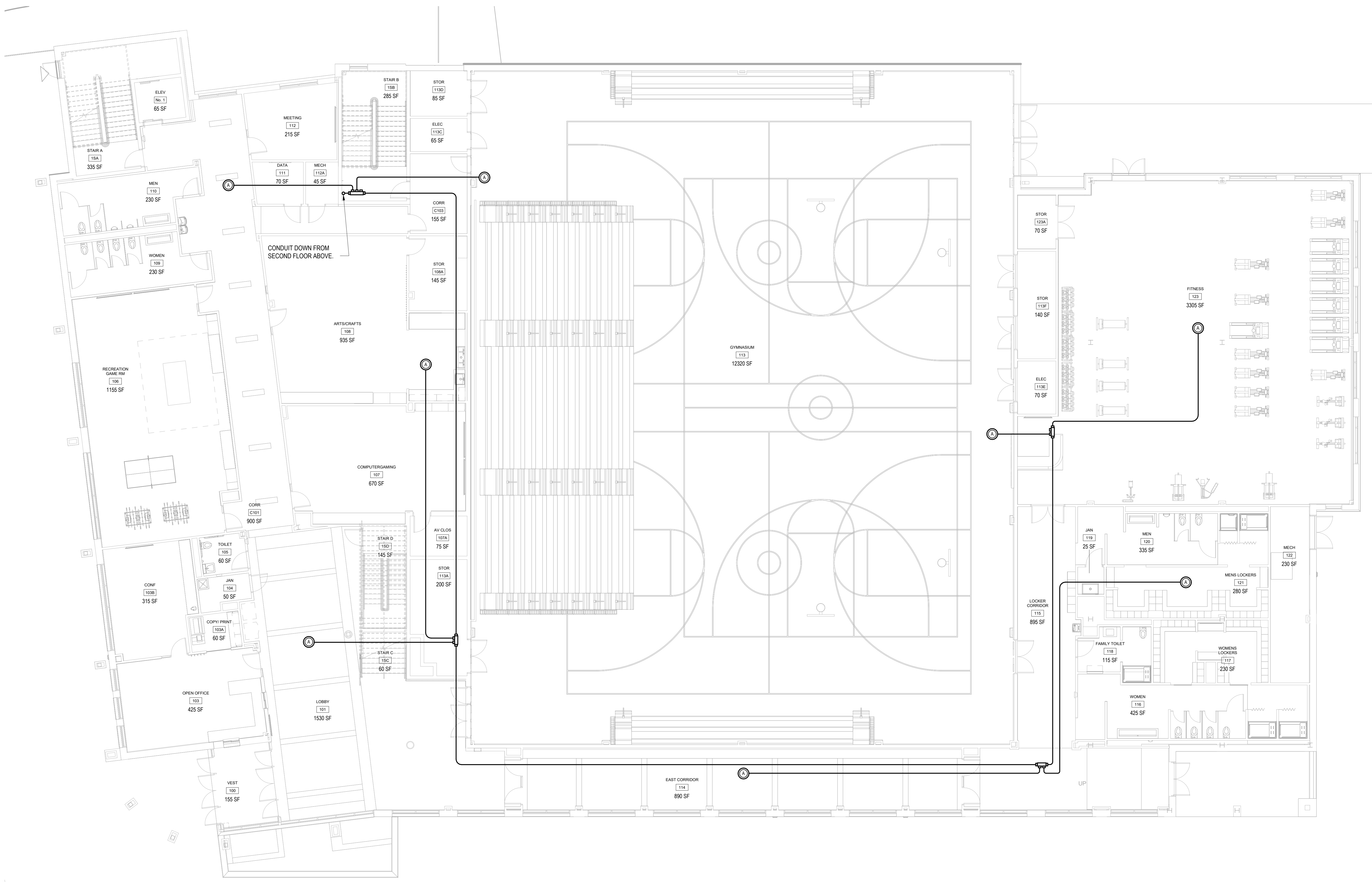
7	10/09/2024	CONFORMED SET
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No.	Date	Issue

Sheet Title

FIRE RADIO FIRST FLOOR PLAN

Job No.	Date
NKGD0207.00	01/09/24
Scale	Drawn / Checked
AS NOTED	Author / Checker

Sheet Number
FR-302



1 FIRE RADIO FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

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Harrison, NY 10528



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OLA Consulting Engineers
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Hawthorne, NY 10532
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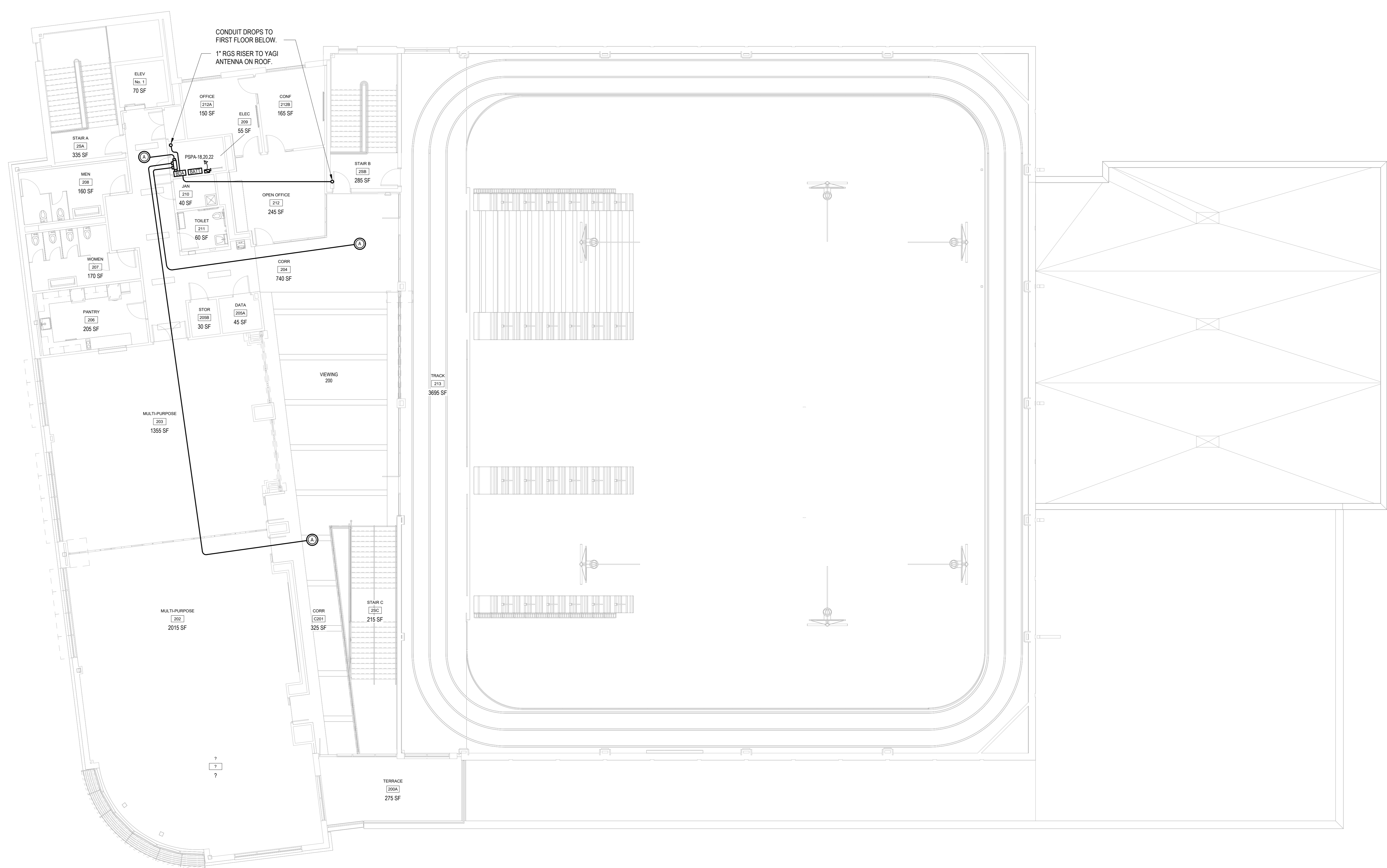
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No.	Date	Issue
7	10/09/2024	CONFORMED SET
2	06/05/2024	ISSUED FOR BID
1	01/16/2024	ISSUED FOR PERMIT

Sheet Title	
FIRE RADIO SECOND FLOOR PLAN	
Job No.	Date
NKGD0207.00	01/09/24
Scale	Drawn / Checked
AS NOTED	Author / Checker
Sheet Number	
FR-303	



1 FIRE RADIO SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

**HARRISON
RECREATION &
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CENTER**

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528



KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KG+DARCHITECTS.COM

OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 501
New York, NY 10018
646.849.4110
olace.com

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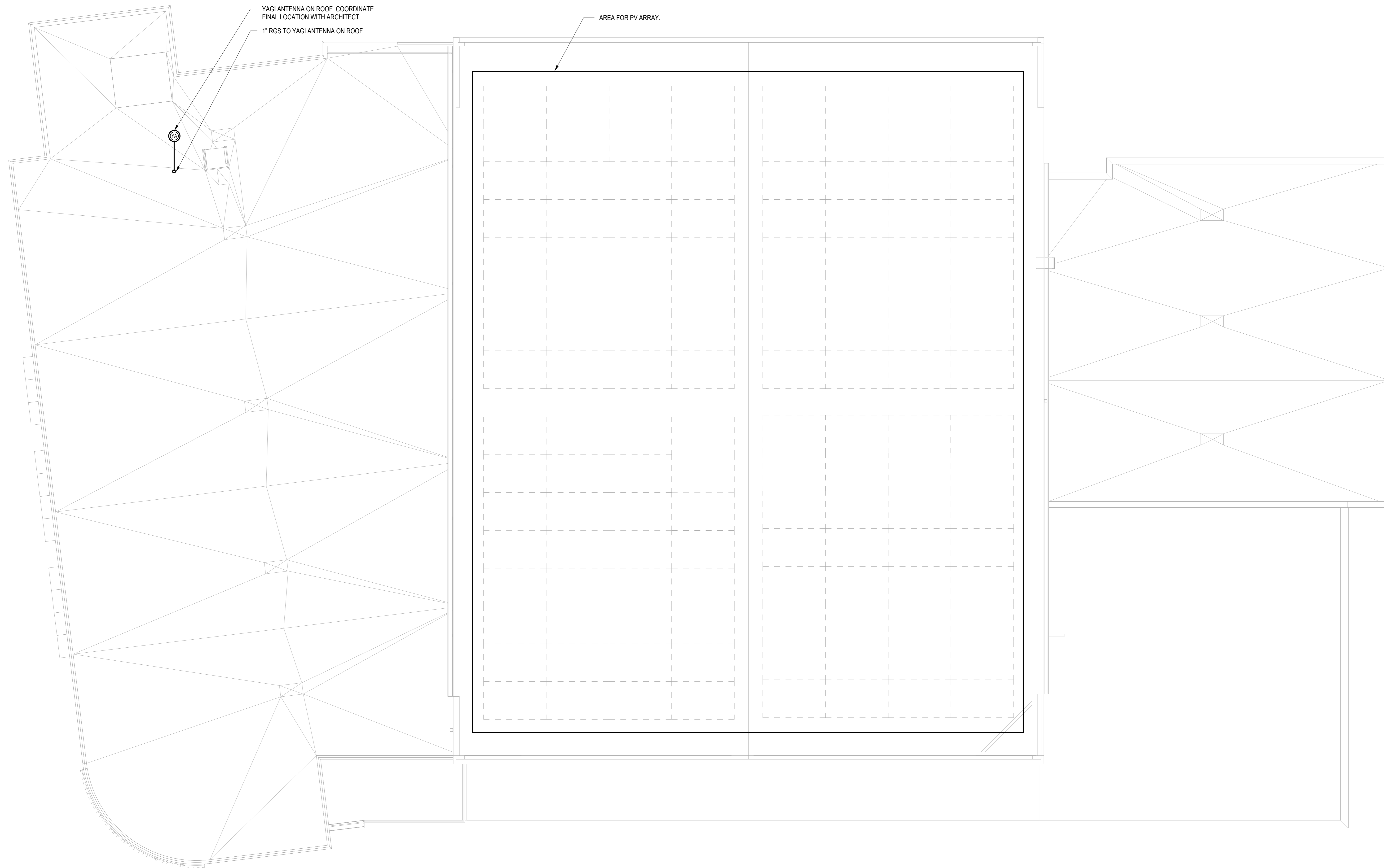
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FIRE RADIO ROOF PLAN

Job No.	Date
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AS NOTED	Author / Checker

Sheet Number

FR-304



1 FIRE RADIO ROOF PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

PLUMBING FIXTURE SCHEDULE								
TAG	SYMBOLS		FIXTURES	PLUMBING CONNECTIONS				DESCRIPTION
	PLAN	ELEVATION		WASTE	VENT	COLD WATER	HOT WATER	
P-1			WATER CLOSET WALL-MOUNT	4"	2"	1 1/2"	-	MANUFACTURER: AMERICAN STANDARD MODEL: AFWALL ELONGATED TOILET LESS EVERCLEAN 1.6 GPF FLUSH VALVE, WALL MOUNTED TOILET, WITH ELONGATED BOWL, VITREOUS CHINA, WITH EVERCLEAN 1 1/2" INLET SPUD, 2 1/2" TRAPWAY, 10 1/2" WATER SURFACE AREA FLUSH VALVE: AMERICAN STANDARD SELECTRONIC #6065.161 002 BATTERY POWER (TOP SPUD) RECESSED WALL MOUNT TYPE PROVIDE WALL CARRIER
P-2			LAVATORY WALL HUNG	2"	2"	3/4"	3/4"	MANUFACTURER: SLOAN SOLID SURFACE 1-STATION WALL MOUNTED SINK MODEL: ELGR-81000 SLOANSTONE SOLID SURFACE, DOUBLE HOLE FAUCET: MODEL: REFER TO ARCHITECTURAL PLANS
P-2A			LAVATORY WALL HUNG	2"	2"	3/4"	3/4"	MANUFACTURER: SLOAN SOLID SURFACE 2-STATION WALL MOUNTED SINK MODEL: ELGR-82000 SLOANSTONE SOLID SURFACE, DOUBLE HOLE FAUCET: MODEL: REFER TO ARCHITECTURAL PLANS
P-2B			LAVATORY WALL HUNG	2"	2"	3/4"	3/4"	MANUFACTURER: SLOAN MODEL: ELGR-83000 SLOANSTONE SOLID SURFACE, TRIPLE HOLE FAUCET: MODEL: REFER TO ARCHITECTURAL PLANS
P-3			URINAL	3"	2"	3/4"	-	MANUFACTURER: AMERICAN STANDARD MODEL: 6002.001 TOP SPUD HIGH EFFICIENCY URINAL 0.125 GPF, VITREOUS CHINA, 3/4" INLET SPUD, OUTLET CONNECTION 2" THREADED INSIDE FLUSH VALVE: MODEL: G065013.002, 0.125 GPF EXPOSED TOP SPUD RECESSED WALL MOUNT TYPE S ELECTRONIC URINAL FLUSH VALVE, 20 PSI (FLOWING), 80 PSI (STATIC) OPERATING PRESSURE, 10 GPM FLOW REQUIREMENT PROVIDE WALL CARRIER
P-4			SHOWER (ADA)	3"	2"	3/4"	3/4"	MANUFACTURER: BEST BATH SYSTEMS MODEL: 4LSS24038A75FB V3" 38.5"x40.5"x80.5" SHOWER, FIBERGLASS NOTES: INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ADA GUIDELINES. PROVIDE MOEN HANDHELD KIT KACXMOAN1001 OR APPROVED EQUIVALENT.
P-4A			SHOWER (ADA)	3"	2"	3/4"	3/4"	MANUFACTURER: BEST BATH SYSTEMS MODEL: 4LSS26337A75FB V3" 38.5"x63"x80.5" SHOWER, FIBERGLASS NOTES: INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ADA GUIDELINES. PROVIDE MOEN HANDHELD KIT KACXMOAN1001 OR APPROVED EQUIVALENT.
P-5			ART ROOM SINK	2"	2"	3/4"	3/4"	MANUFACTURER: ELKAY MODEL: EVM4820C 304 STAINLESS STEEL WALL HUNG MULTIPLE STATION HAND WASH SINK. INCLUDE SOLIDS INTERCEPTOR AT DRAIN.
P-6			SINK (ADA)	2"	2"	3/4"	3/4"	MANUFACTURER: ELKAY MODEL: LRAD21955 FAUCET: MAKE: ELKAY MODEL: LK406GN05T4 304 STAINLESS STEEL DROP IN ADA SINK. FAUCET SHALL BE BRASS MATERIAL, & DOUBLE HOLE WITH A FLOW RATE OF 1.5 GPM. INCLUDE SOLIDS INTERCEPTOR AT DRAIN.
P-7			JANITOR'S SINK	3"	2"	3/4"	3/4"	MANUFACTURER: ZURN MODEL: ZS650 FAUCET: ZURN SINK FAUCET ZB43M1-XL ENAMELED CAST IRON CORNER FLOOR SINK WITH 28x28x8 BOWL, 3" DRAIN WITH DRAIN GRID
CM			COFFEE MAKER	-	-	3/4"	-	MANUFACTURER: CURTIS MODEL: ALPHA GS AUTOMATIC COFFEE BREWING SYSTEM SHALL BE ABLE TO BREW 12 GAL/HR ELECTRICAL: 120V/160, 1800 WATTS, 15 AMPS
CM-1			COFFEE MAKER	-	-	3/4"	-	MANUFACTURER: KEURIG MODEL: KEURIG K-2500 PLUMBED COMMERCIAL COFFEE MAKER ELECTRICAL: 120V/160, 1800 WATTS, 12 AMPS
IM			ICE MACHINE	-	-	3/4"	-	MANUFACTURER: AVANTCO ICE MACHINES MODEL: KMC-H-530-A 30" AIR COOLED MODULAR HALF CUBE ICE MACHINE WITH BIN - 500LB. ICE MAKER WITH BIN. SHALL BE ABLE TO PRODUCE 500 LBS/DAY AT 90°F. 350 LB BIN STORAGE CAPACITY. ELECTRICAL: 115V/160, 9.4 AMPS
IM-1			ICE MACHINE	-	-	3/4"	-	MANUFACTURER: AVANTCO ICE MACHINES MODEL: LUC-F-120-A-19" AIR COOLED UNDERCOUNTER FULL CUBE ICE MACHINE - 129LB. ICE MAKER WITH BIN. SHALL BE ABLE TO PRODUCE 129 LBS/DAY AT 90°F. 40 LB BIN STORAGE CAPACITY. ELECTRICAL: 115V/160, 5 AMPS
DW			DISHWASHER	1-3/8"	-	-	1/2"	MANUFACTURER: JACKSON WAREWASHING SYSTEMS MODEL: DISHSTAR HT-E UNDERCOUNTER DISHWASHER, HIGH TEMPERATURE SANITIZING, 27 RACKS PER HOUR CAPACITY, 100 SECOND CYCLE, BOTTOM MOUNTED CONTROLS WITH STAINLESS STEEL TOP AND SIDE PANELS, AND BUILT IN BOOSTER HEATER, 180°F FINAL RINSE WATER, ELECTRICAL: 208V/0/1
DF			DRINKING FOUNTAIN	2"	2"	3/4"	-	MANUFACTURER: ELKAY MODEL: LEST38WVLSK #20 BOTTLE FILLING STATION AND 84-LEVEL ADA COOLER FILTERED REFRIGERATED LIGHT GRAY, 8.0 GPM OF 50°F DRINKING WATER BASED ON 80°F INLET WATER AND 90°F AMBIENT MODEM: V/PHz: 115V/160, FLA=6
DF-1			DRINKING FOUNTAIN	2"	2"	3/4"	-	MANUFACTURER: ELKAY MODEL: L258VWSLK #20 BOTTLE FILLING STATION WITH SINGLE ADA COOLER FILTERED REFRIGERATED LIGHT GRAY, 8.0 GPM OF 50°F DRINKING WATER BASED ON 80°F INLET WATER AND 90°F AMBIENT MODEM: V/PHz: 115V/160, FLA=6
FD			FLOOR DRAIN	3"	2"	-	-	FLOOR DRAIN: MAKE: JR SMITH MODEL: 2110 MEDIUM DUTY DRAIN, 8.5" ROUND TOP, STRAINER. PROVIDE TRAP SEAL.
FD-1			PARKING GARAGE FLOOR DRAIN	3"	2"	-	-	WADE #W-1210-27 WITH CAST IRON BODY, CAST IRON DRAINAGE FLANGE, SEDIMENT BUCKET, FLASHING COLLAR, 12" ROUND HEAVY DUTY CAST IRON GRATE, PROVIDE TG-1 FOR EACH FD.
NFHB			NON FREEZE HOSE-BIB	-	-	-	-	HOSE BIB: MAKE: WOODFORD MODEL: 65 ANTI-SIPHON PROTECTED AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH INTEGRAL VACUUM BREAKER
COPD			CLEANOUT DECK PLATE	-	-	-	-	FLOOR CLEANOUT WITH ADJUSTABLE HEAD, ANCHOR FLANGE, CUT-OFF SECTIONS AND ROUND SCORIATED NICKEL-BRONZE TOP. WADE #W-6000 OR APPROVED EQUAL. PROVIDE HEAVY DUTY CAST IRON TOP FOR MECHANICAL ROOMS. COPD IN GARAGE ROOM TO BE RATED FOR VEHICULAR TRAFFIC.
WCO			WALL CLEANOUT	-	-	-	-	WALL CLEANOUT WITH CLEANOUT TEE AND CHROME PLATED BRONZE SQUARE ACCESS COVER AND FRAME. WADE #W-8480 OR APPROVED EQUAL.
RD-1			ROOF DRAIN	4"	2"	2	-	JOSAM 21500 4" SERIES COATED CAST IRON ROOF DRAIN, LARGE POLYPROPYLENE LOCKING DOME, WEJOC NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.
OD-1			ROOF DRAIN	4"	2"	2	-	JOSAM 21500 4" 16 SERIES COATED CAST IRON ROOF DRAIN, LARGE POLYPROPYLENE LOCKING DOME, WEJOC NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, INTERNAL WATER GUARD FOR OVERFLOW, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

NOTES:
1.) REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE QUANTITY, LOCATIONS, & MOUNTING HEIGHTS.

SYMBOLS AND ABBREVIATIONS		
SYMBOL	ABBREVIATION	DESCRIPTION
-	AFF	ABOVE FINISHED FLOOR
-	AHC	ABOVE HUNG CEILING
-	BFP	BACK FLOW PREVENTOR
●	-	BALL VALVE
○	-	BASKET STRAINER
⊕	-	BUTTERFLY VALVE
⌞	-	CHECK VALVE
⊞	-	CIRCUIT SETTER
⌞	CODP	CLEAN OUT DECK PLATE
⌞	CW	COLD WATER
⌞	-	CONCENTRIC REDUCER
⌞	DCV	DOUBLE CHECK VALVE - BFP
⌞	-	ECCENTRIC REDUCER
○	-	ELBOW DOWN
○	-	ELBOW UP
-	DEM.	EXISTING TO BE REMOVED
-	EX.	EXISTING TO REMAIN
⊞	-	FLEXIBLE CONNECTION
-	FCO	FLOOR CLEAN OUT
-	FS	FLOOR SINK
-	-	FLOW ARROW
-	FAI	FRESH AIR INTAKE
⌞	-	GATE VALVE
⌞	-	GLOBE VALVE
-	HW	HOT WATER
-	HW HTR	HOT WATER HEATER
-	HWC	HOT WATER RECIRCULATION
-	LDR	LEADER
-	-	MANUAL AIR VENT
-	NEW	NEW WORK
⌞	-	OS&Y GATE VALVE
⌞	-	PLUG VALVE
⌞	-	PIPE CAP
⌞	-	PRESSURE GAGE
⌞	-	PRESSURE REDUCING VALVE
⌞	-	PUMP
-	PD	PUMP DISCHARGE
-	RPZ	REDUCED PRESSURE ZONE - BFP
-	REL	REMOVE AND RELOCATE
-	S	SANITARY
⌞	-	SOLENOID VALVE
⌞	-	STRAINER
⌞	SD	STORM DRAINAGE
○	-	TEE DOWN
○	-	TEE UP
⌞	-	THERMOMETER
-	TYP.	TYPICAL
⌞	-	T&P RELIEF VALVE
⌞	-	UNION
-	V	VENT
-	VTR	VENT THROUGH ROOF
-	WCO	WALL CLEAN OUT
-	W	WASTE LINE

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

PLUMBING MATERIALS		
1.	ALL PIPING BURIED BELOW THE GARAGE SLAB SHALL BE HIGH PERFORMANCE HUB & SPIGOT SERVICE WEIGHT CAST IRON CHARLOTTE PIPE "EDGE HP IRON" ATSM A74, CISPI TMINSF, EN 877 COMPRESSION GASKETS ASTM C564 OR LEAD & OAKUM. REFER TO SPECIFICATIONS 221316	

GENERAL NOTES		
1.	THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.	
2.	THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES, IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.	
3.	THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.	
4.	CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.	
5.	PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.	
6.	ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.	

GENERAL NOTES		
7.	PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.	
8.	PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2 1/2".	
9.	NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.	
10.	PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.	
11.	PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, AND HOT WATER PIPES.	
12.	ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.	
13.	PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.	
14.	PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS AS REQUIRED. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE IN AN ACCESSIBLE LOCATION.	
15.	THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE PLUMBING WORK.	
16.	SEE THE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR CONSTRUCTION.	
17.	ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.	
18.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.	

EQUIPMENT NOTES		
1.	NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-1): SHALL BE BASED ON AO SMITH MODEL BTH-120 MXI, RATED FOR 138 GPH @ 100° RISE, GAS FIRED, 120,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 95.8%	
2.	NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-2): SHALL BE BASED ON AO SMITH MODEL BTH-150 MXI, RATED FOR 178 GPH @ 100° RISE, GAS FIRED, 150,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 98.8%	
3.	NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-3): SHALL BE BASED ON AO SMITH MODEL BTH-120 MXI, RATED FOR 138 GPH @ 100° RISE, GAS FIRED, 120,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 95.8%	
4.	ELEVATOR SUMP PUMP, (ESP-1), TO BE BASED ON STANCOR MODEL SE50 PUMP, 0.5 HP, 115V-1 PHASE-60 HERTZ, 8 FLA, 55 GPM @ 20 FEET HEAD AND 3450 RPM, 40A LOCKED ROTOR AMPS, 33 FEET MAX. SUBMERGENCE. PROVIDE STANCOR CHECK VALVE WITH EACH PUMP. PROVIDE OIL MINDER CONTROL SYSTEM FOR EACH PUMP WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. PROVIDE JUNCTION BOX WITH MULTI PIN CONNECTOR AND CORD LENGTHS AS REQUIRED. PANEL TO HAVE INDICATOR LIGHTS FOR OIL SPILL, HIGH LIQUID LEVEL, OVERLOAD AND PUMP RUN. CONTROL PANEL ENCLOSURE TO BE NEMA4X WATERTIGHT CORROSION RESISTANT FIBERGLASS.	
5.	SUMP PUMP, (SP-1) AND (SP-2), TO BE BASED ON STANCOR MODEL SV500 PUMP, 5 HP, 208V-3 PHASE-60 HERTZ, 16.6 FLA, 210 GPM @ 35 FEET HEAD AND 3450 RPM, 83A LOCKED ROTOR AMPS, 33 FEET MAX. SUBMERGENCE. PROVIDE STANCOR CHECK VALVE WITH EACH PUMP. PROVIDE OIL MINDER CONTROL SYSTEM FOR EACH PUMP WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. PROVIDE JUNCTION BOX WITH MULTI PIN CONNECTOR AND CORD LENGTHS AS REQUIRED. PANEL TO HAVE INDICATOR LIGHTS FOR OIL SPILL, HIGH LIQUID LEVEL, OVERLOAD AND PUMP RUN. CONTROL PANEL ENCLOSURE TO BE NEMA4X WATERTIGHT CORROSION RESISTANT FIBERGLASS.	
6.	LD-1 SPOT TYPE LEAK DETECTORS SHALL BE LIEBERT MODEL LT-410. PROVIDE 100 WATT LOW-VOLTAGE TRANSFORMER. PROVIDE CONNECTION TO BMS FOR LD ALARM.	
7.	DOMESTIC HOT WATER HEATER RECIRCULATION PUMP, (HWCP-1): SHALL BE BASED ON BELL AND GOSSETT MODEL PL-55 RATED FOR 1.5 GPM AT 40' TDH, 2/5 HP, 120V/160/60HZ. MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.	
8.	3" DOMESTIC WATER BACKFLOW PREVENTION ASSEMBLY: SHALL BE WATTS MODEL LF009 LEAD FREE REDUCED PRESSURE ZONE BACKFLOW PREVENTER. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT OS&Y SEATED SHUTOFF VALVES AND FOUR BALL TYPE TEST COCKS. THE 3" DOMESTIC WATER BACKFLOW PREVENTER SHALL BE PROVIDED WITH WATTS AIR GAP / SPLASH GUARD.	
9.	6" FIRE PROTECTION BACKFLOW PREVENTION ASSEMBLY: SHALL BE WATTS SERIES 709DCDA DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT OS&Y SEATED SHUTOFF VALVES AND TWO BALL TYPE TEST COCKS.	
10.	WATER METER: SHALL BE BASED ON ELSTER EVQ04 METER, 3" SIZE, FINAL WATER METER AND SIZE, MODEL, AND DIMENSIONS SHALL BE DETERMINED AND APPROVED BY THE WATER UTILITY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND INSTALLATION, AND ALL RELATED WATER DEPARTMENT FEES.	
11.	ALL DOMESTIC, SANITARY, AND STORM PIPING ROUTED EXPOSED WITHIN GARAGE SHALL BE HEAT TRACED COMPLETE, INCLUDING A MINIMUM OF 5'-0" INTO THE TEMPERED SPACES. PIPING SHALL BE INSULATED COMPLETE AND WRAPPED WITH PVC JACKETING.	
12.	COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FINAL LOCATION, TYPE, AND QUANTITY OF FIXTURES AND ROOF DRAINS THROUGHOUT THE BUILDING.	
13.	COORDINATE WITH SITE ENGINEER DRAWINGS FOR FINAL LOCATION, TYPE, AND QUANTITY OF ROADWAY DRAINS.	
14.	ALL PIPING INCLUDING HANGERS/SUPPORTS WITHIN THE GARAGE SHALL BE ROUTED AS HIGH AS POSSIBLE TO MAINTAIN VEHICLE CLEARANCE THROUGHOUT. REFER TO ARCHITECTURAL DRAWINGS FOR MINIMUM ELEVATIONS.	
15.	THE PLUMBING CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING EQUIPMENT, DUCTWORK, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, AND ALL RCP ELEMENTS, ETC.	
16.	PROVIDE TRAP AND VALVE GUARDS AT ALL LAVATORIES WITH EXPOSED PIPING SIMILAR TO TRUEBRO P-TRAP AND TWO (2) VALVE COVERS WITH VINYL COVER.	
17.	GAS BOOSTER PUMP (GMP-1): SHALL BE ACCARDI COMPAC HB4615-1. SYSTEM SHALL BE A PACKAGE HERMETICALLY SEALED SYSTEM THAT INCLUDES AUTO FLOW CONTROL, INTEGRAL VFD, NEMA 4 PANEL, NEMA 4 LOW PRESSURE SWITCH, INLET AND OUTLET ISOLATION VALVES, FLEXIBLE CONNECTIONS, INLET AND OUTLET PRESSURE GAUGES, AND CHECK VALVE. SYSTEM SHALL BE CAPABLE OF DELIVERING A VARIABLE VOLUME OF NATURAL GAS OF 1,370 CFH WHILE PROVIDING A CONSTANT ELEVATED DIFFERENTIAL GAS PRESSURE OF 11" WC.	

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Harrison, NY 10528

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ARCHITECTS, PC
285 MAIN STREET- MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 501
New York, NY 10018
646.849.4110
olacoe.com

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1	03/31/2020	50% DESIGN DEVELOPMENT
2	06/01/2020	DESIGN DEVELOPMENT
3	01/16/2024	ISSUED FOR PERMIT
4	06/05/2024	ISSUED FOR BID
7	10/09/2024	CONFORMED SET

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PLUMBING SYMBOLS, ABBREVIATIONS, & NOTES

Job No. NKG0207.00 Date 03/01/2024
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Sheet Number **P-001**

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3	01/16/2024	ISSUED FOR PERMIT
2	09/01/2023	DESIGN DEVELOPMENT
1	03/12/2020	50% DESIGN DEVELOPMENT

Sheet Title

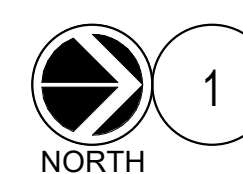
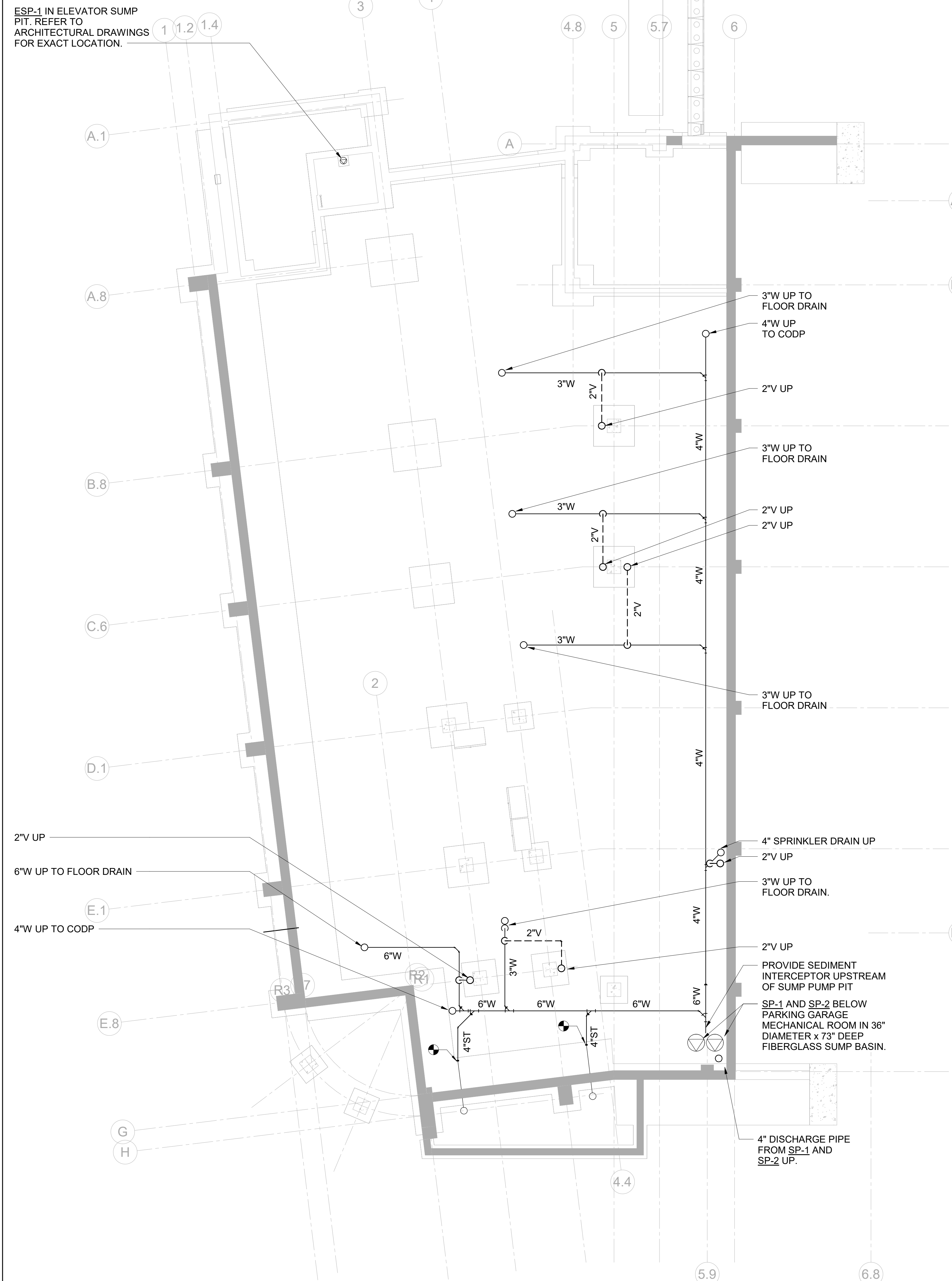
**PLUMBING
PARKING FLOOR &
FIRST FLOOR
SLAB PLAN**

Job No. NKGD0207.00 Date 02/16/2024

Scale AS NOTED Drawn / Checked HM / RG

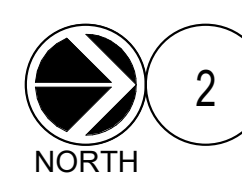
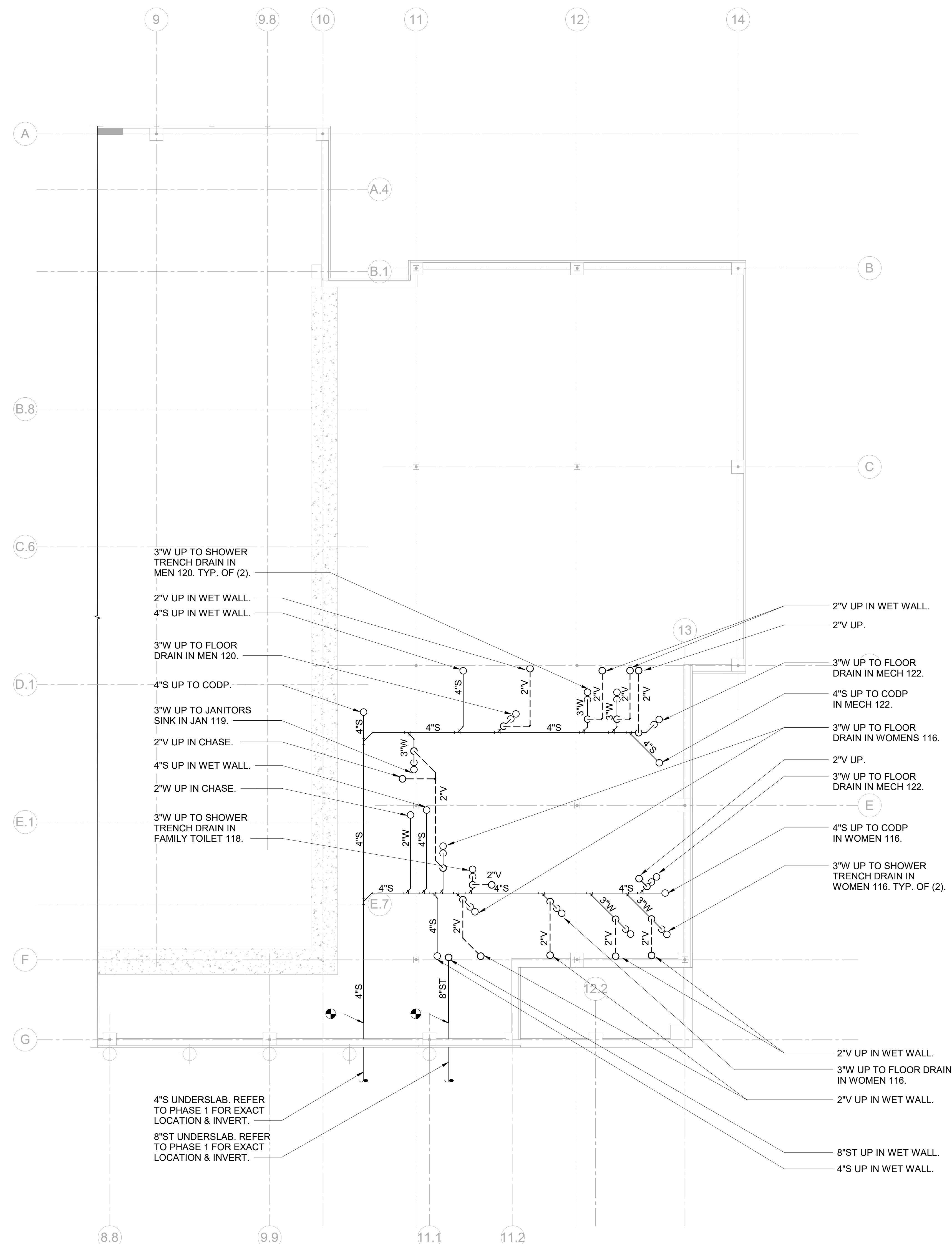
Sheet Number

P-200A



1 PLUMBING PARKING FLOOR SLAB PLAN

SCALE: 1/8" = 1'-0"



2 PLUMBING FIRST FLOOR SLAB PLAN

SCALE: 1/8" = 1'-0"

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1	03/12/2020	50% DESIGN DEVELOPMENT

Sheet Title

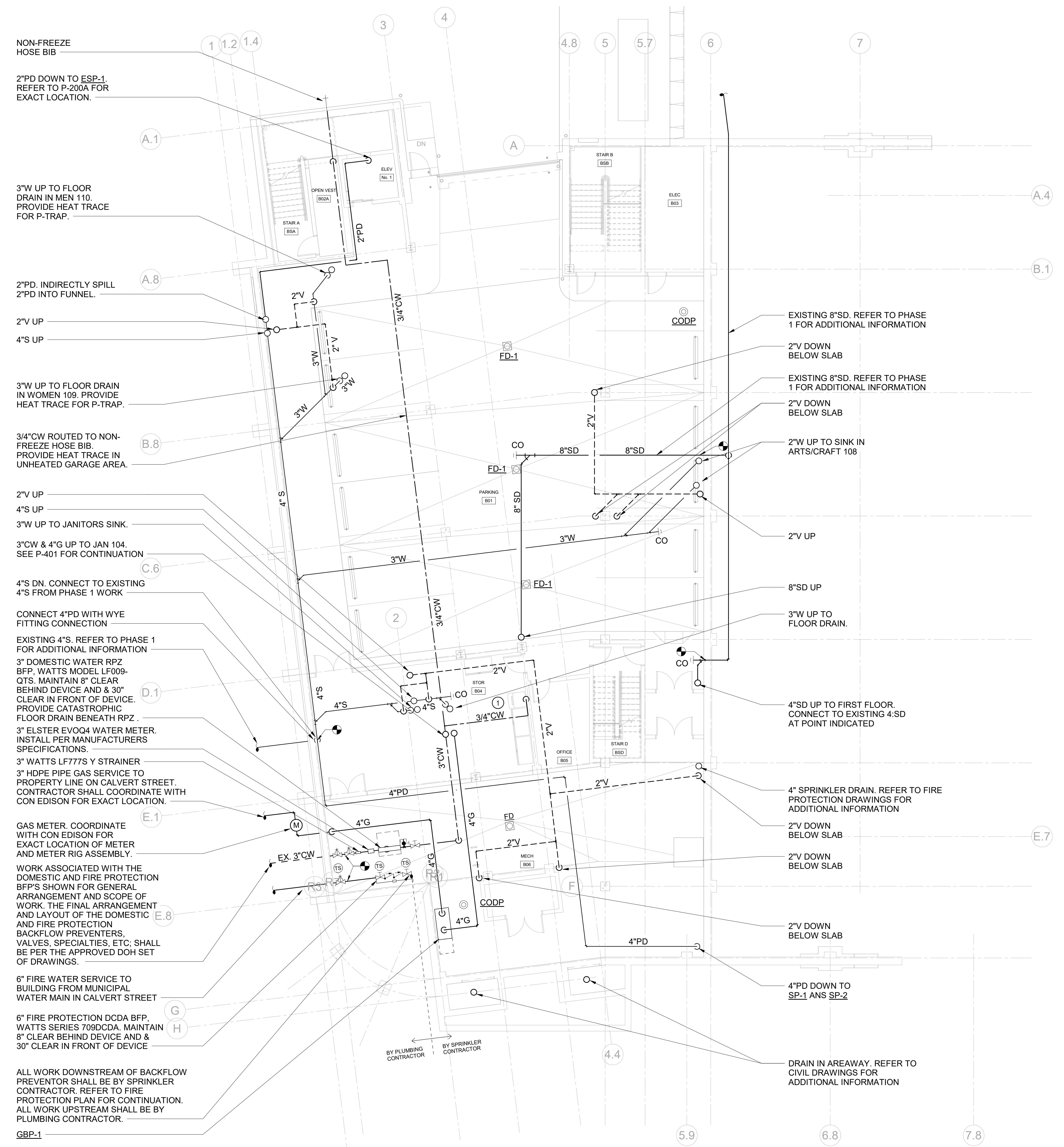
PLUMBING PARKING FLOOR PLAN

Job No.	Date
NKGD0207.00	02/16/2024

Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

P-201



NON-FREEZE HOSE BIB

2"PD DOWN TO ESP-1. REFER TO P-200A FOR EXACT LOCATION.

3"W UP TO FLOOR DRAIN IN MEN 110. PROVIDE HEAT TRACE FOR P-TRAP.

2"PD. INDIRECTLY SPILL. 2"PD INTO FUNNEL.

2"V UP

4"S UP

3"W UP TO FLOOR DRAIN IN WOMEN 109. PROVIDE HEAT TRACE FOR P-TRAP.

3/4"CW ROUTED TO NON-FREEZE HOSE BIB. PROVIDE HEAT TRACE IN UNHEATED GARAGE AREA.

2"V UP

4"S UP

3"W UP TO JANITORS SINK.

3"CW & 4"G UP TO JAN 104. SEE P-401 FOR CONTINUATION.

4"S DN. CONNECT TO EXISTING 4"S FROM PHASE 1 WORK

CONNECT 4"PD WITH WYE FITTING CONNECTION

EXISTING 4"S. REFER TO PHASE 1 FOR ADDITIONAL INFORMATION

3" DOMESTIC WATER RPZ BFP. WATTS MODEL LF009. QTS. MAINTAIN 8" CLEAR BEHIND DEVICE AND 3" CLEAR IN FRONT OF DEVICE. PROVIDE CATASTROPHIC FLOOR DRAIN BENEATH RPZ.

3" ELSTER EVOQ4 WATER METER. INSTALL PER MANUFACTURERS SPECIFICATIONS.

3" WATTS LF777S Y STRAINER

3" HDPE PIPE GAS SERVICE TO PROPERTY LINE ON CALVERT STREET. CONTRACTOR SHALL COORDINATE WITH CON EDISON FOR EXACT LOCATION.

GAS METER. COORDINATE WITH CON EDISON FOR EXACT LOCATION OF METER AND METER RIG ASSEMBLY.

WORK ASSOCIATED WITH THE DOMESTIC AND FIRE PROTECTION BFP'S SHOWN FOR GENERAL ARRANGEMENT AND SCOPE OF WORK. THE FINAL ARRANGEMENT AND LAYOUT OF THE DOMESTIC AND FIRE PROTECTION BACKFLOW PREVENTERS, VALVES, SPECIALTIES, ETC. SHALL BE PER THE APPROVED DOH SET OF DRAWINGS.

6" FIRE WATER SERVICE TO BUILDING FROM MUNICIPAL WATER MAIN IN CALVERT STREET

6" FIRE PROTECTION DCD4 BFP. WATTS SERIES 709D-CDA. MAINTAIN 8" CLEAR BEHIND DEVICE AND 3" CLEAR IN FRONT OF DEVICE

ALL WORK DOWNSTREAM OF BACKFLOW PREVENTOR SHALL BE BY SPRINKLER CONTRACTOR. REFER TO FIRE PROTECTION PLAN FOR CONTINUATION. ALL WORK UPSTREAM SHALL BE BY PLUMBING CONTRACTOR.

GBP-1

1 PLUMBING PARKING FLOOR PLAN
SCALE: 1/8" = 1'-0"

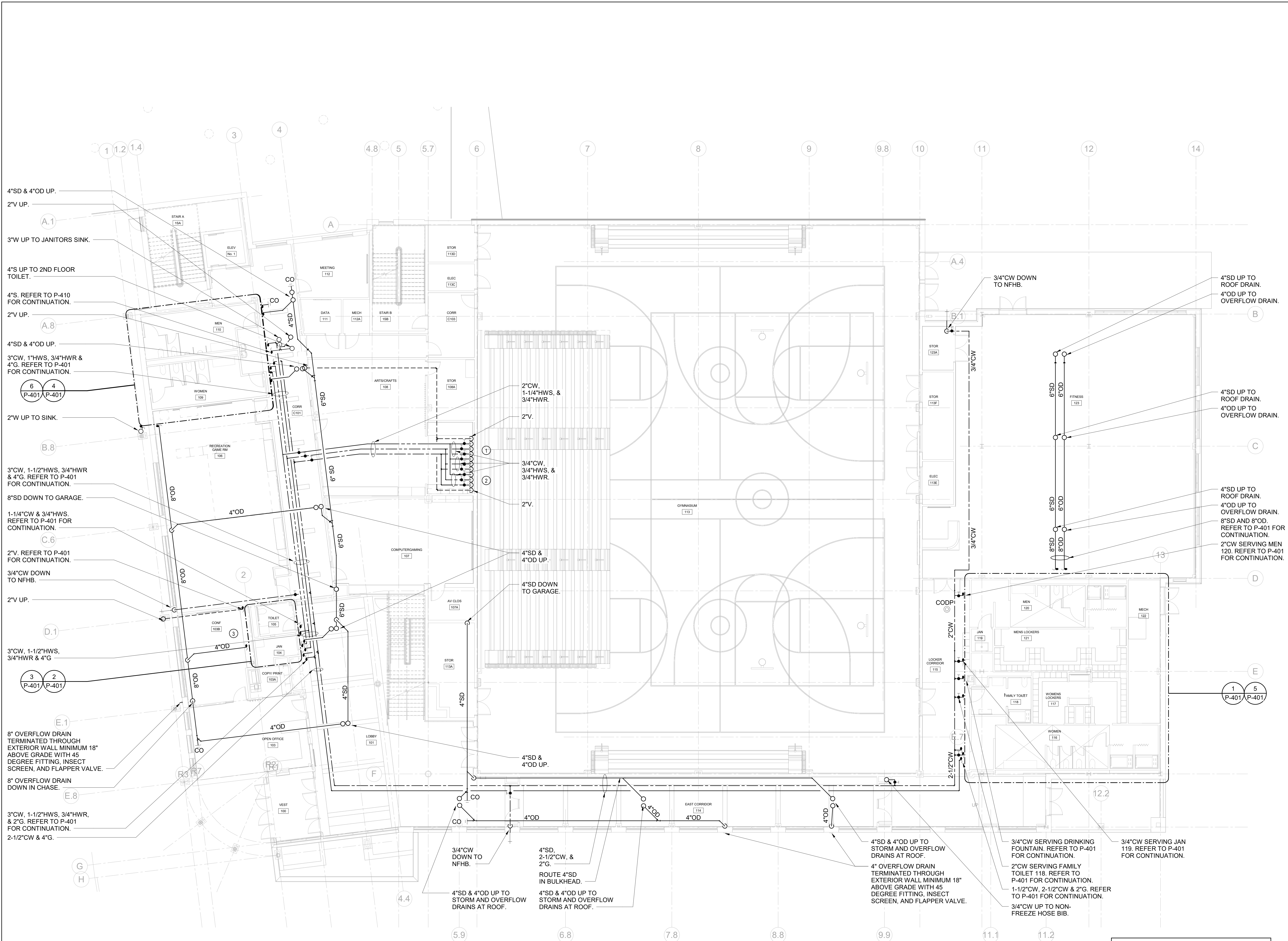
NEW WORK KEY NOTES

1 ICE MACHINE IM. PROVIDE 3/4"CW. PROVIDE SHUT-OFF VALVE.

No.	Date	Issue
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1	03/12/2020	50% DESIGN DEVELOPMENT

PLUMBING FIRST FLOOR PLAN

Job No.	NKGD0207.00	Date	02/16/2024
Scale	AS NOTED	Drawn / Checked	HM / RG
Sheet Number	P-202		



1 PLUMBING FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"
NORTH

- NEW WORK KEY NOTES**
- 1 SINK P-5, PROVIDE (2) 3/4" CW, (2) 3/4" HW, (1) 2" W, AND (1) 2" V. PROVIDE SHUT-OFF VALVES. TYPICAL
 - 2 SINK P-6, PROVIDE 3/4" CW, 3/4" HW, 2" W, AND 2" V. PROVIDE SHUT-OFF VALVES. TYPICAL
 - 3 COFFEE MAKER CM-1, PROVIDE 3/4" CW, PROVIDE SHUT-OFF VALVE AND BACKFLOW PREVENTER.

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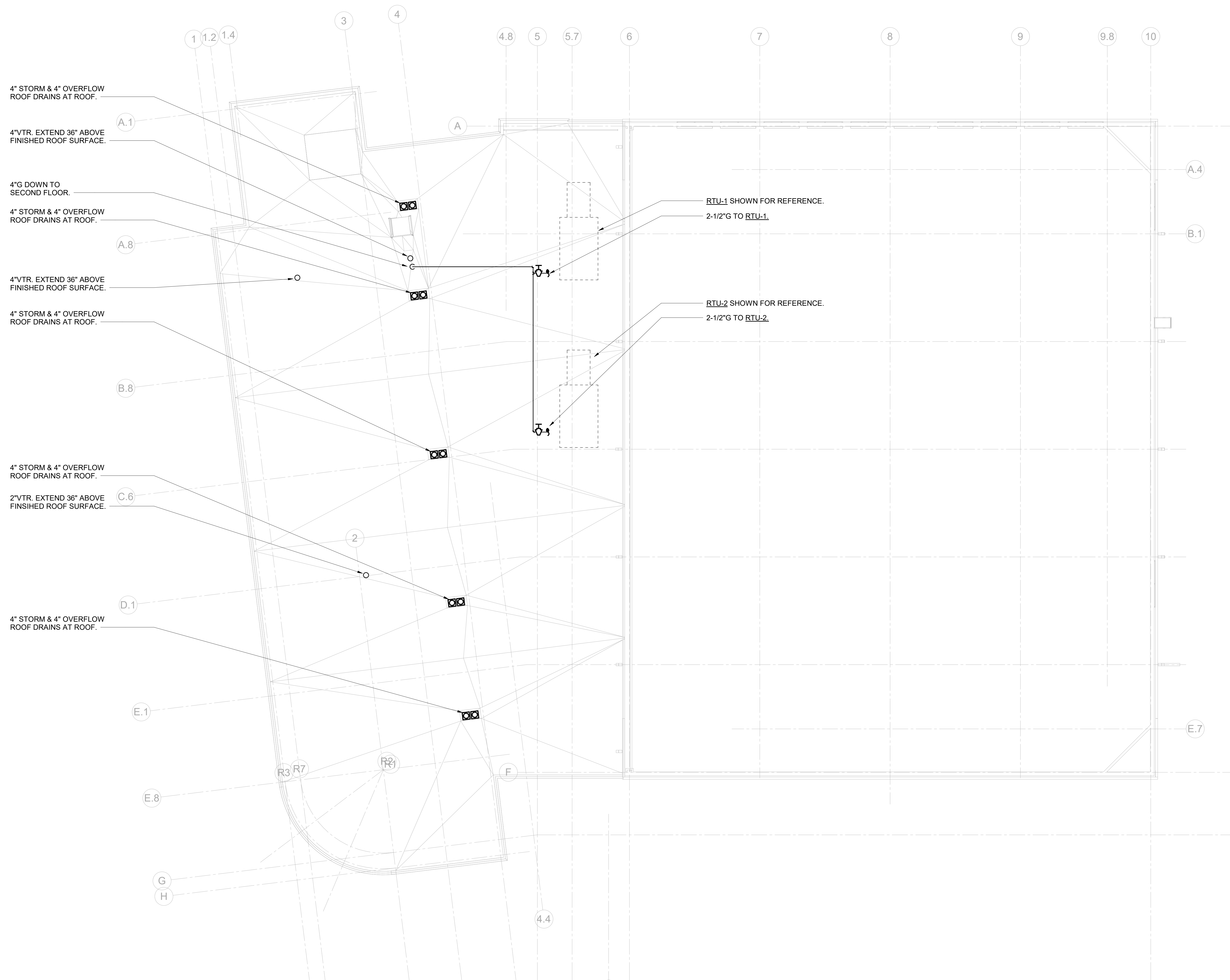
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**PLUMBING ROOF
PLAN**

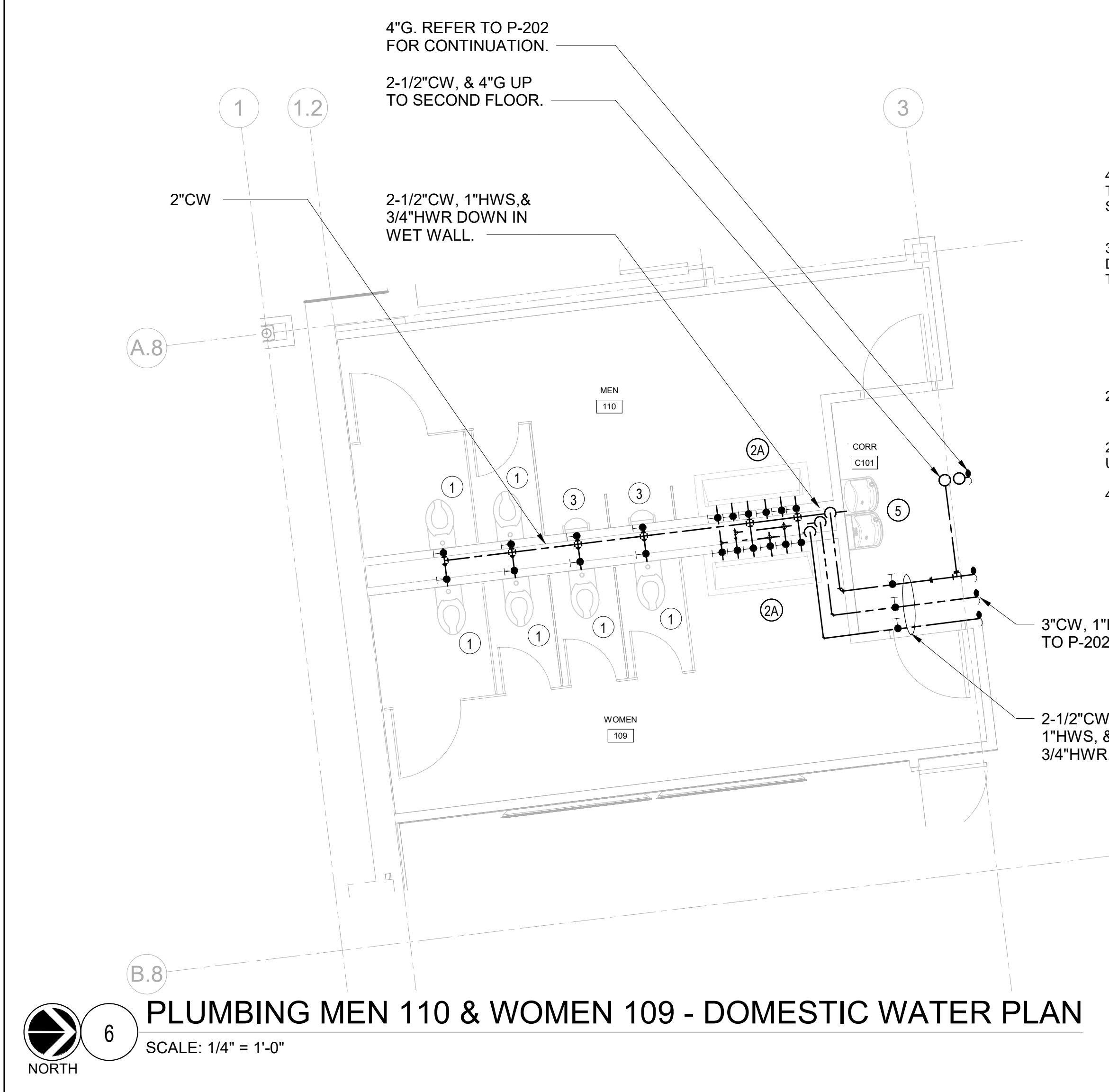
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Sheet Number

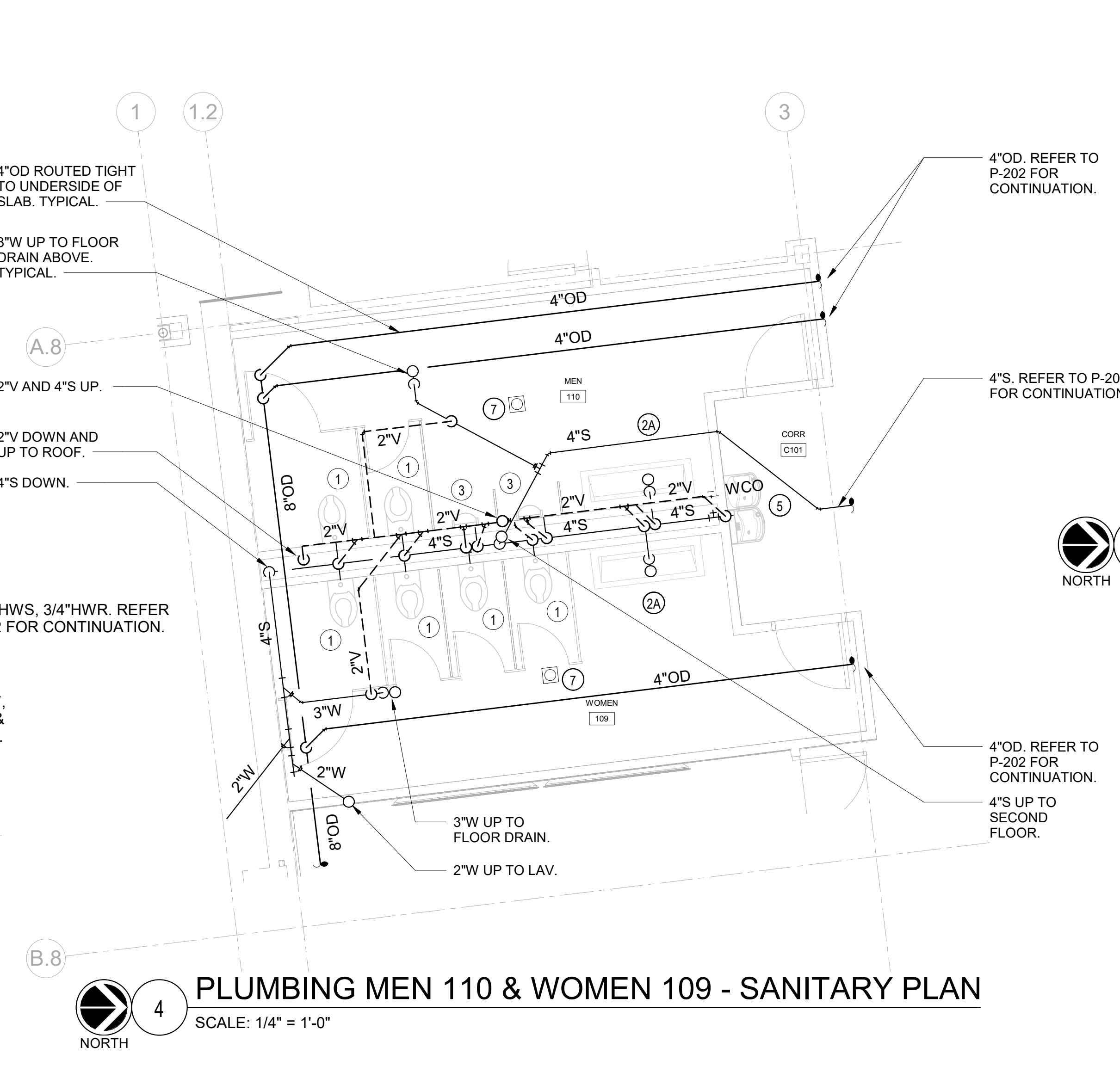
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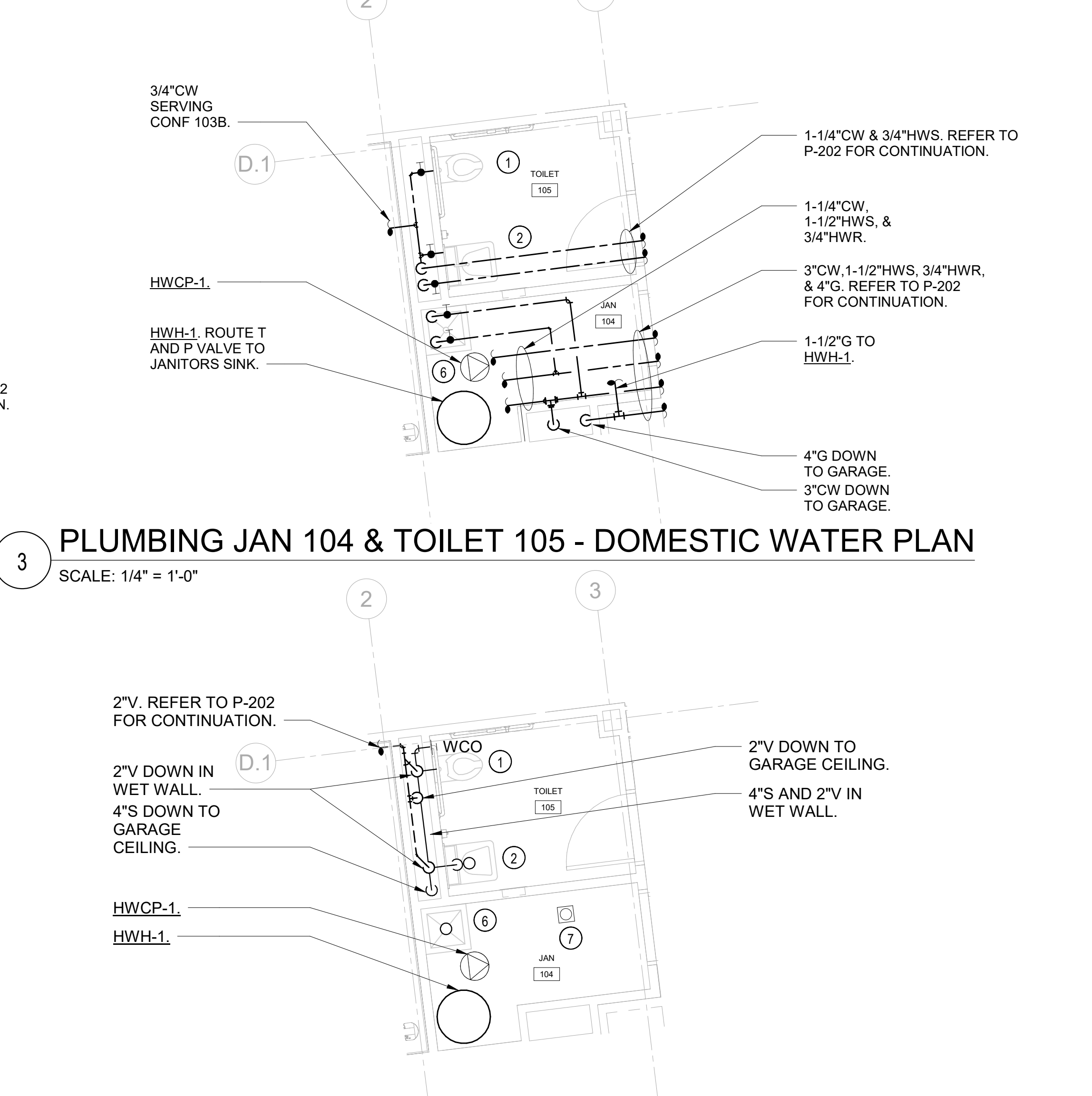
1 PLUMBING ROOF PLAN
SCALE: 1/8" = 1'-0"
NORTH



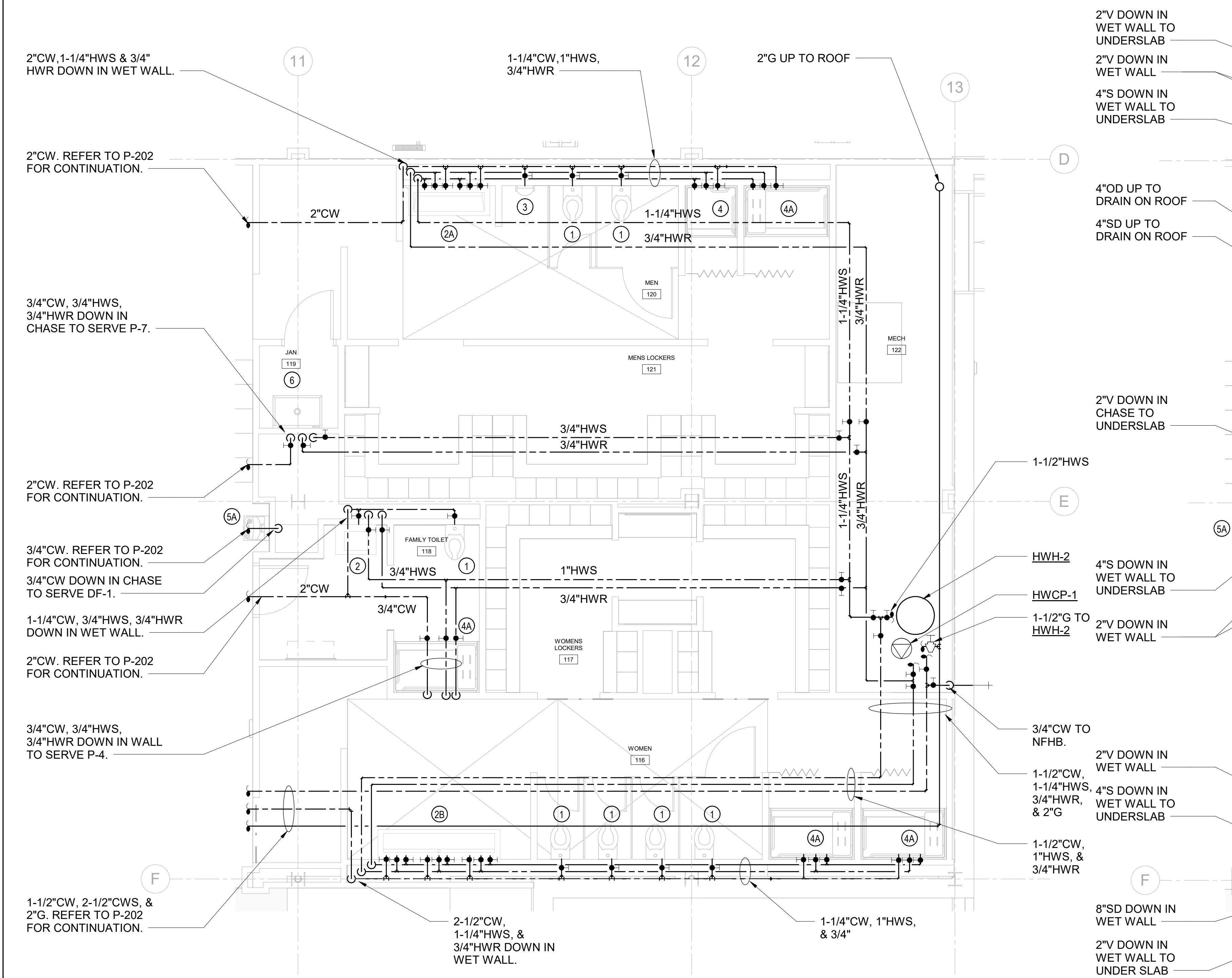
6 PLUMBING MEN 110 & WOMEN 109 - DOMESTIC WATER PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



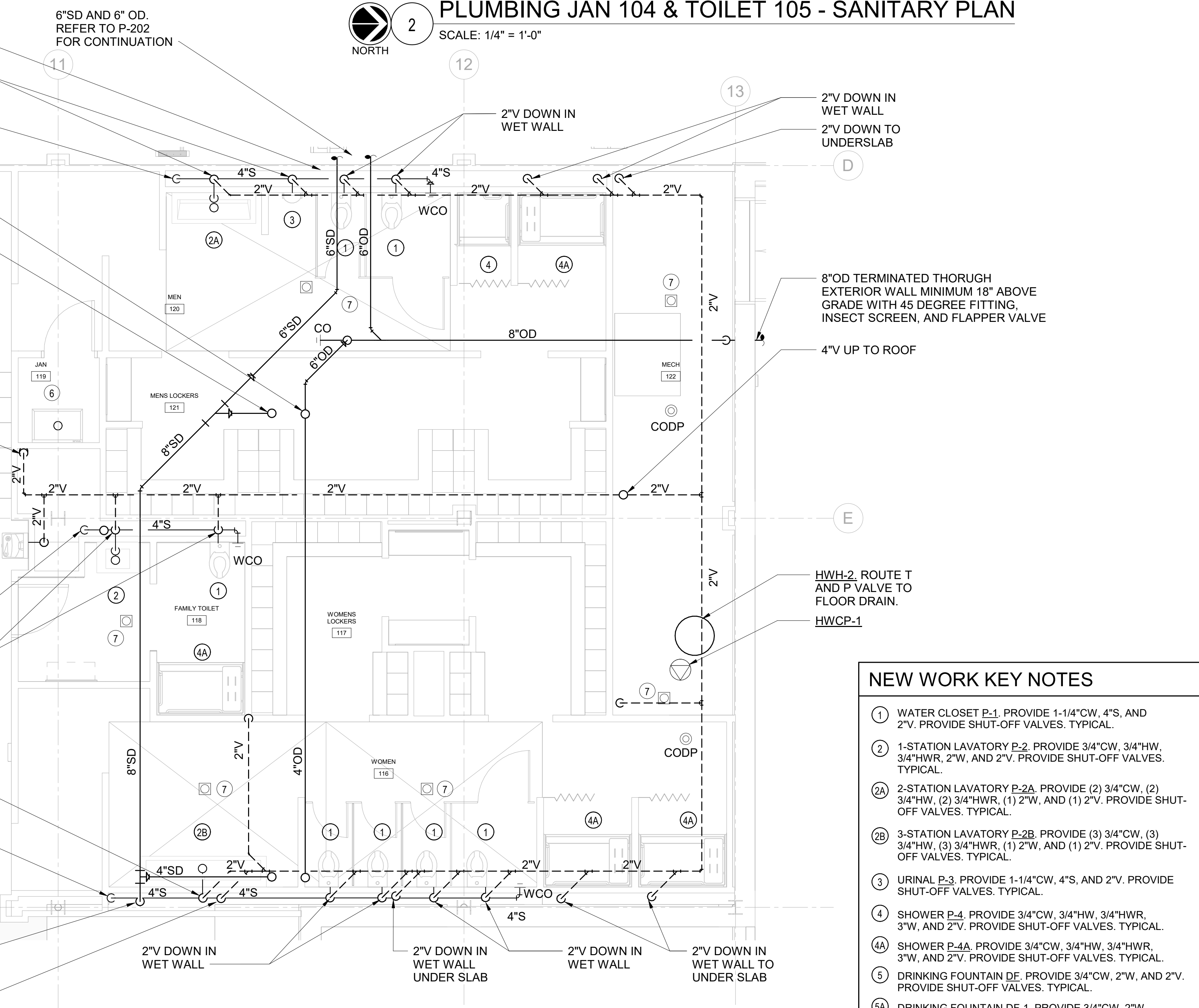
4 PLUMBING MEN 110 & WOMEN 109 - SANITARY PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



3 PLUMBING JAN 104 & TOILET 105 - DOMESTIC WATER PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



5 PLUMBING FIRST FLOOR LOCKER ROOMS - DOMESTIC WATER PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



1 PLUMBING FIRST FLOOR LOCKER ROOMS - SANITARY PLAN
 SCALE: 1/4" = 1'-0"
 NORTH

2 PLUMBING JAN 104 & TOILET 105 - SANITARY PLAN
 SCALE: 1/4" = 1'-0"
 NORTH

- NEW WORK KEY NOTES**
- 1 WATER CLOSET P-1. PROVIDE 1-1/4" CW, 4"S, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
 - 2 1-STATION LAVATORY P-2. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 2"V, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
 - 2A 2-STATION LAVATORY P-2A. PROVIDE (2) 3/4" CW, (2) 3/4" HW, (2) 3/4" HWR, (1) 2"V, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
 - 2B 3-STATION LAVATORY P-2B. PROVIDE (3) 3/4" CW, (3) 3/4" HW, (3) 3/4" HWR, (1) 2"V, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
 - 3 URINAL P-3. PROVIDE 1-1/4" CW, 4"S, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
 - 4 SHOWER P-4. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 3"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
 - 4A SHOWER P-4A. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 3"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
 - 5 DRINKING FOUNTAIN DE. PROVIDE 3/4" CW, 2"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
 - 5A DRINKING FOUNTAIN DE-1. PROVIDE 3/4" CW, 2"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
 - 6 JANITOR SINK P-7. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 3"V, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
 - 7 FLOOR DRAIN ED. PROVIDE 3"W AND 2"V. TYPICAL.

Key Plan

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PLUMBING FIRST FLOOR ENLARGED PLANS

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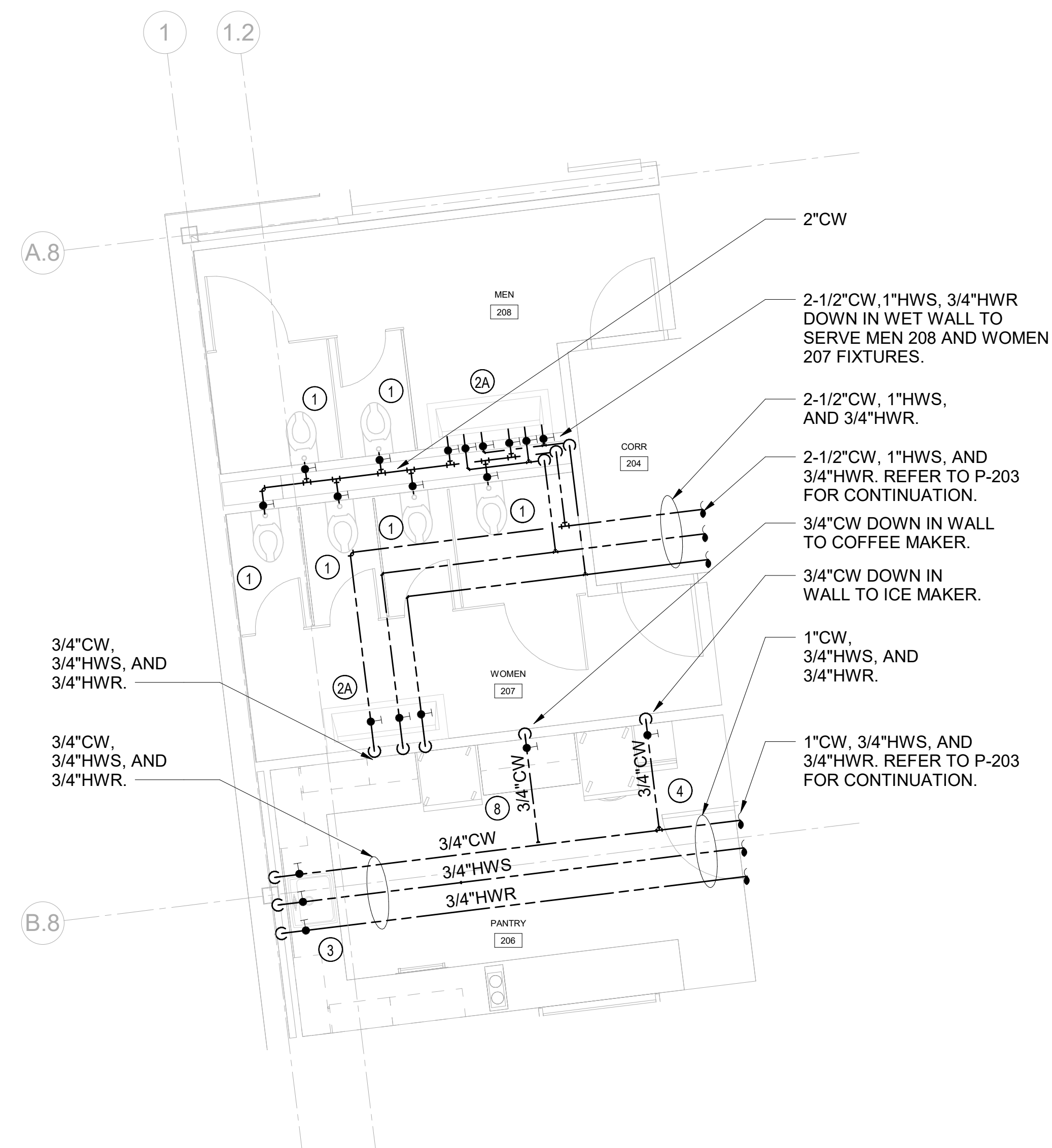
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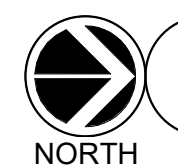
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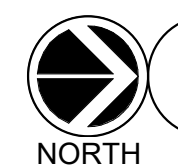
**PLUMBING PANTRY 206, WOMEN 207, & MEN 208
- DOMESTIC WATER PLAN**



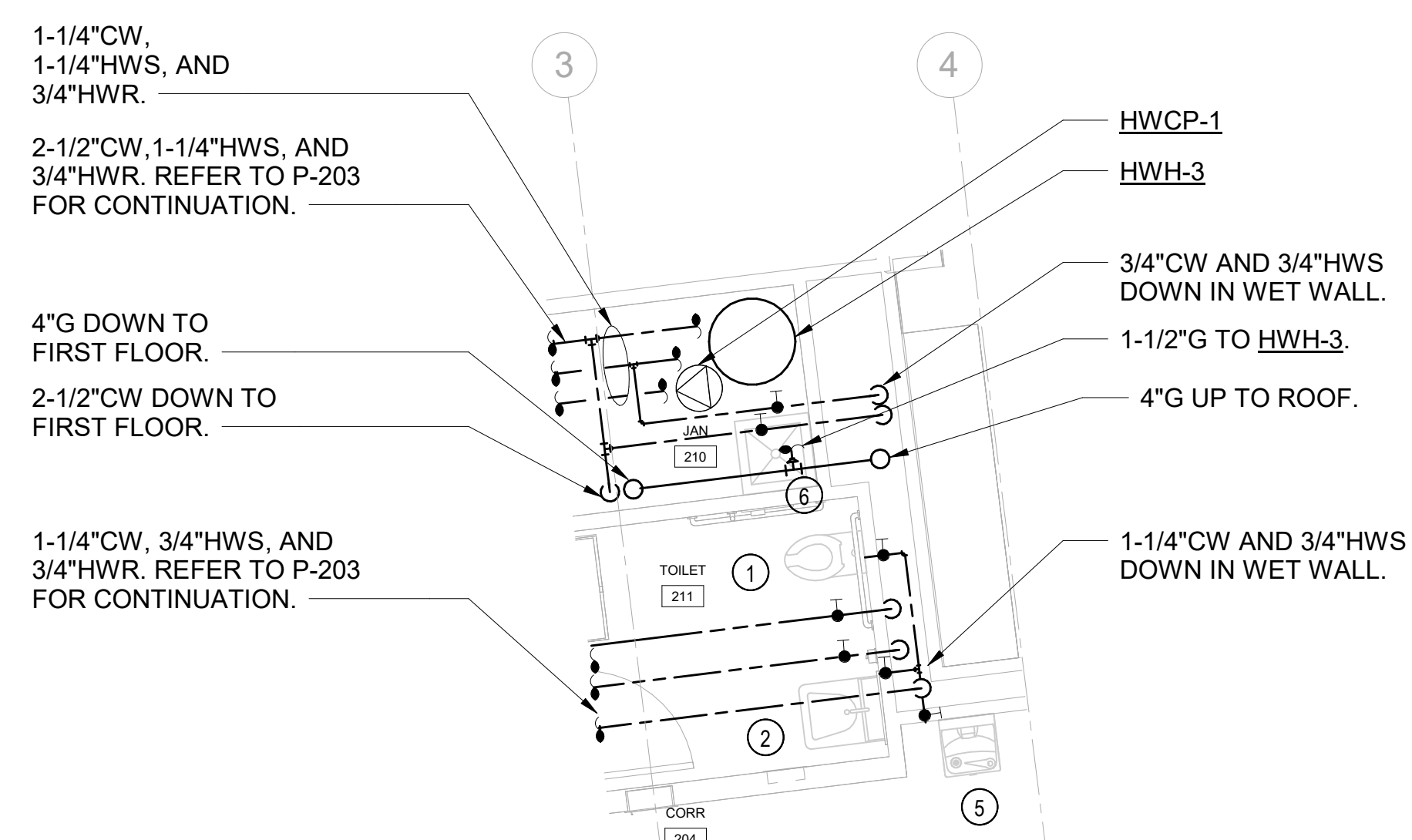
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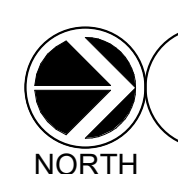
**PLUMBING PANTRY 206, WOMEN 207, & MEN 208
- SANITARY PLAN**



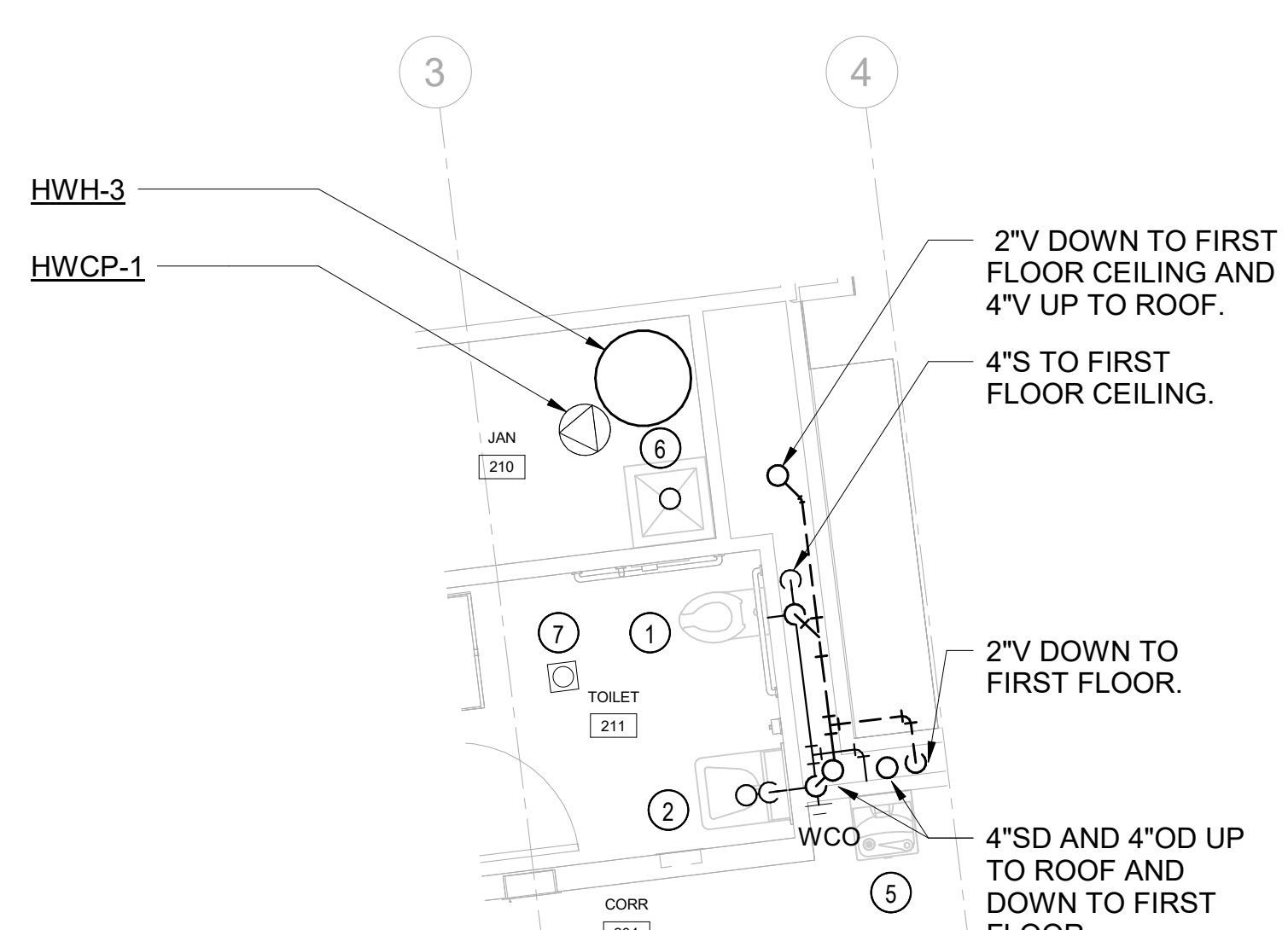
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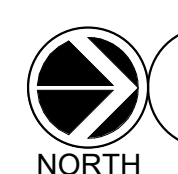
PLUMBING - JAN 210 & TOILET 211 - DOMESTIC WATER PLAN



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



PLUMBING JAN 210 & TOILET 211 - SANITARY PLAN



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

NEW WORK KEY NOTES

- 1 WATER CLOSET P-1. PROVIDE 1-1/4" CW, 4"S, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 2 1-STATION LAVATORY P-2. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 2A 2-STATION LAVATORY P-2A. PROVIDE (2) 3/4" CW, (2) 3/4" HW, (2) 3/4" HWR, (1) 2"W, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 3 PANTRY SINK P-6. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 4 ICE MAKER IM-1. PROVIDE 3/4" CW. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 5 DRINKING FOUNTAIN DF-1. PROVIDE 3/4" CW, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 6 JANITOR SINK P-7. PROVIDE 3/4" CW, 3/4" HW, 3/4" HWR, 3"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
- 7 FLOOR DRAIN ED. PROVIDE 3"W AND 2"V. TYPICAL.
- 8 COFFEE MAKER CM. PROVIDE 3/4" CW. PROVIDE SHUT-OFF VALVE AND BACKFLOW PREVENTER.

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7	10/09/2024	CONFORMED SET
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3	01/16/2024	ISSUED FOR PERMIT
2	09/01/2023	DESIGN DEVELOPMENT
1	03/12/2020	50% DESIGN DEVELOPMENT

**PLUMBING
SECOND FLOOR
ENLARGED PLANS**

Job No. NKGD0207.00 Date 02/16/2024
Scale AS NOTED Drawn / Checked HM / RG
Sheet Number

P-402

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

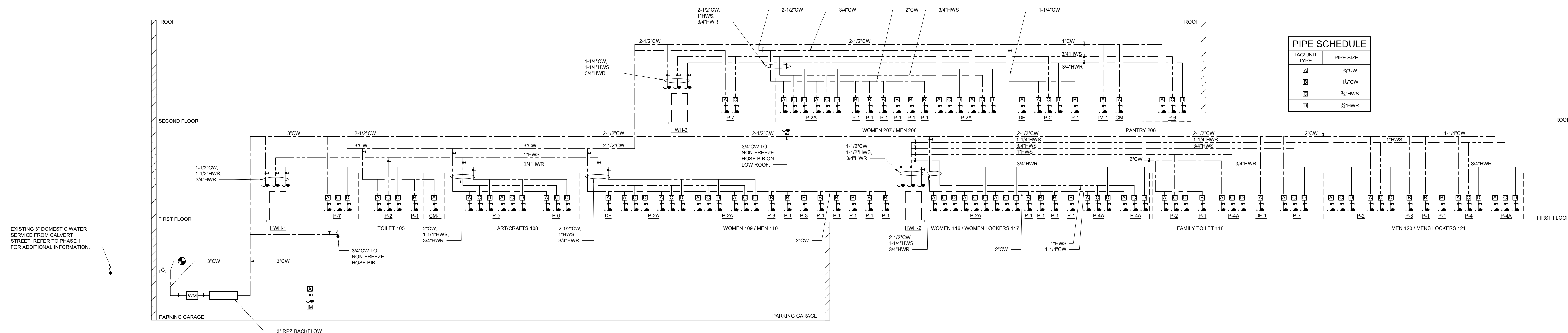
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Harrison, NY 10528



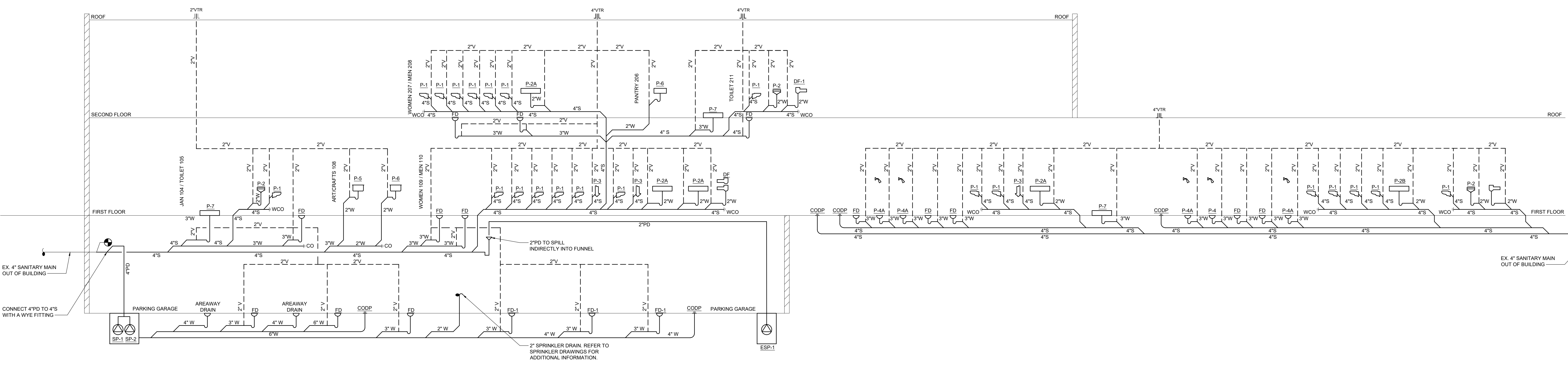
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P.914.666.5900 KGDARCHITECTS.COM

OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 501
New York, NY 10018
646.849.4110
olacem.com

CONSTRUCTION DOCUMENTS



2 DOMESTIC WATER RISER DIAGRAM
SCALE: NTS



1 SANITARY RISER DIAGRAM
SCALE: NTS

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PLUMBING RISER DIAGRAMS 1 OF 2

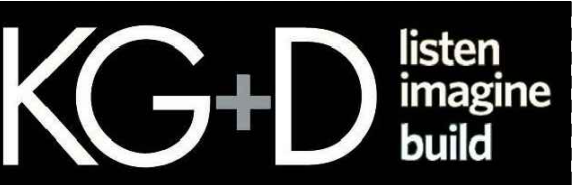
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Sheet Number	
P-501	

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RECREATION &
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CENTER**

New Construction - Phase 2

Town / Village of Harrison

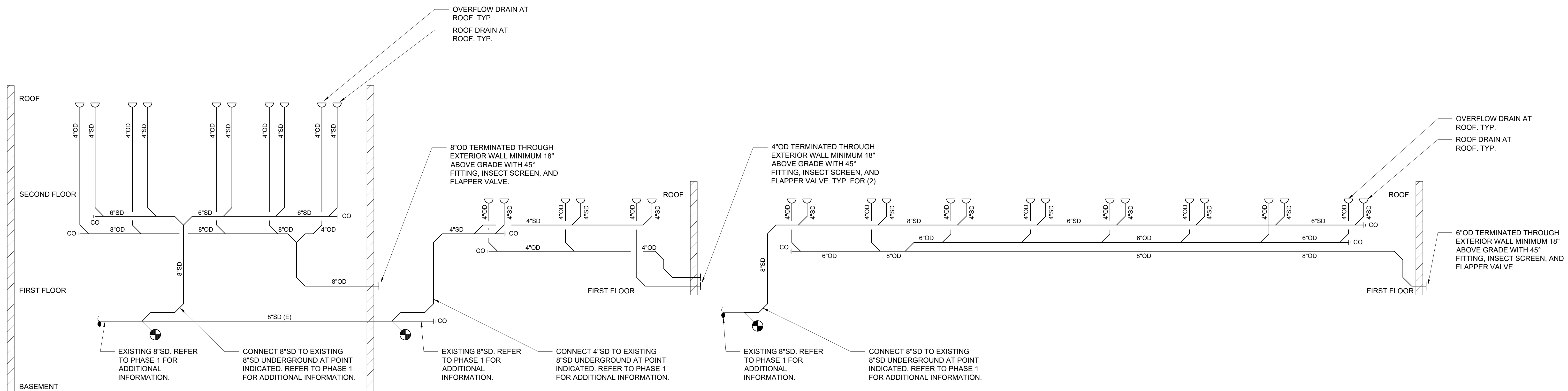
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Harrison, NY 10528



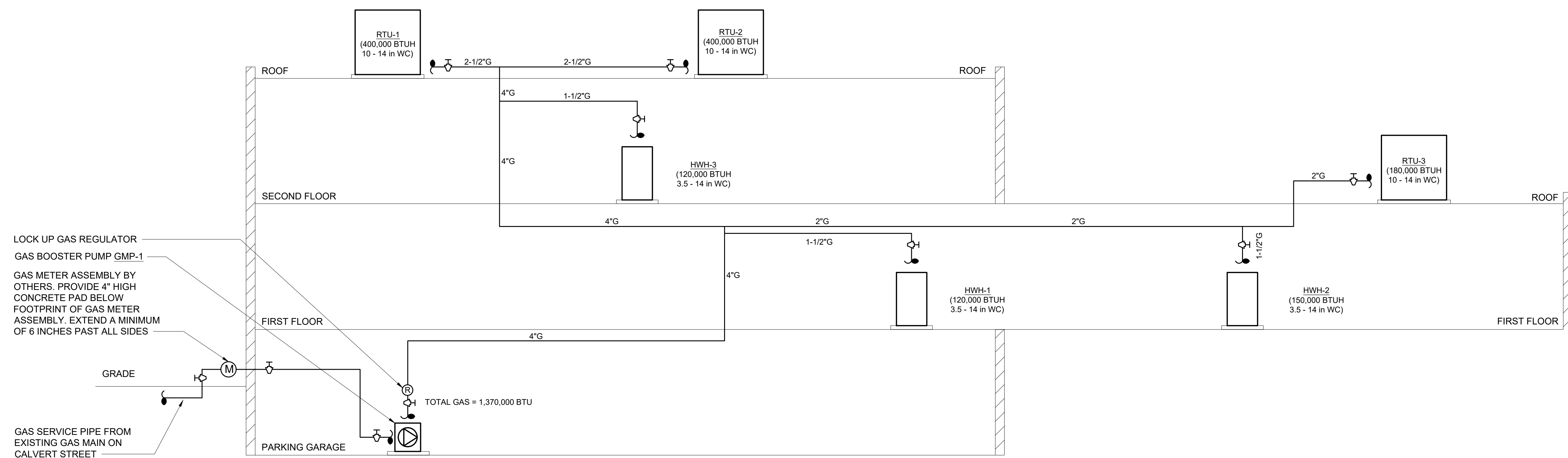
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CONSTRUCTION DOCUMENTS



2 PLUMBING STORM RISER DIAGRAM
SCALE: NTS



1 PLUMBING GAS RISER DIAGRAM
SCALE: NTS

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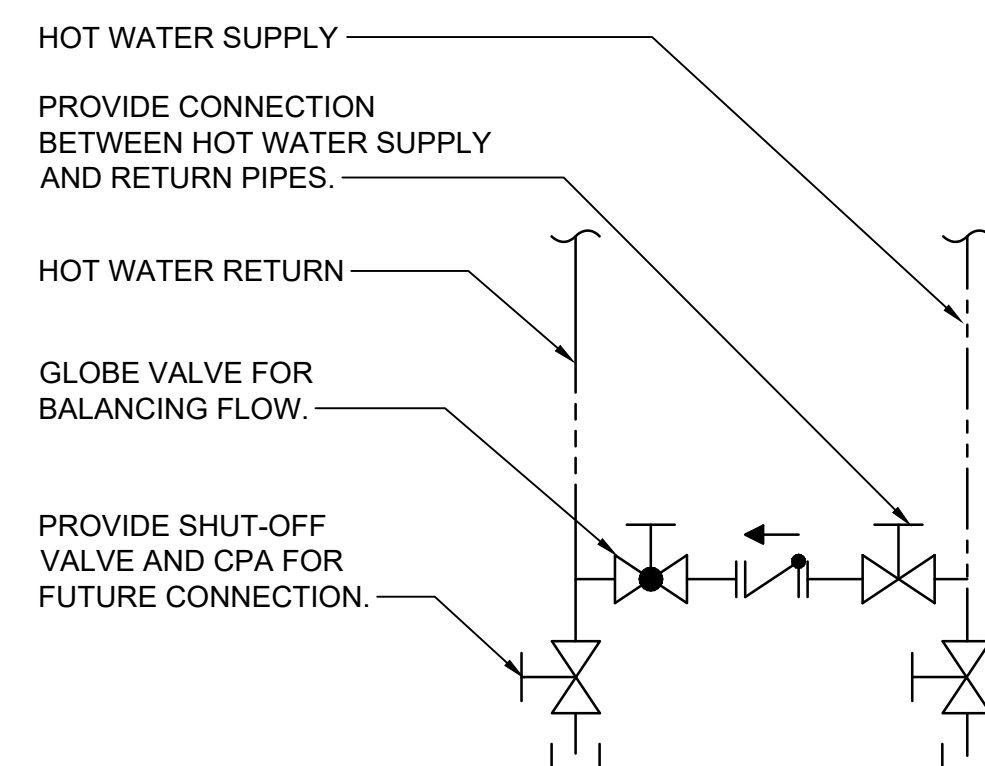
**PLUMBING RISER
DIAGRAM 2 OF 2**

Job No. NKGD0207.00 Date 03/01/2024

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Sheet Number

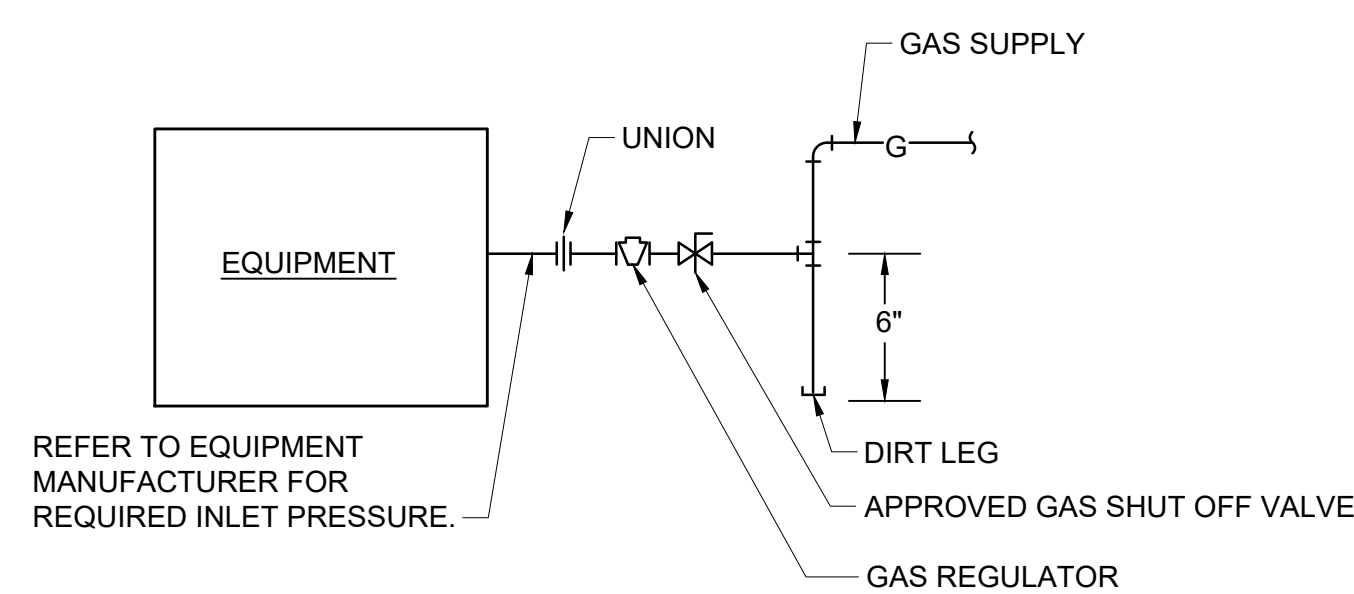
P-502



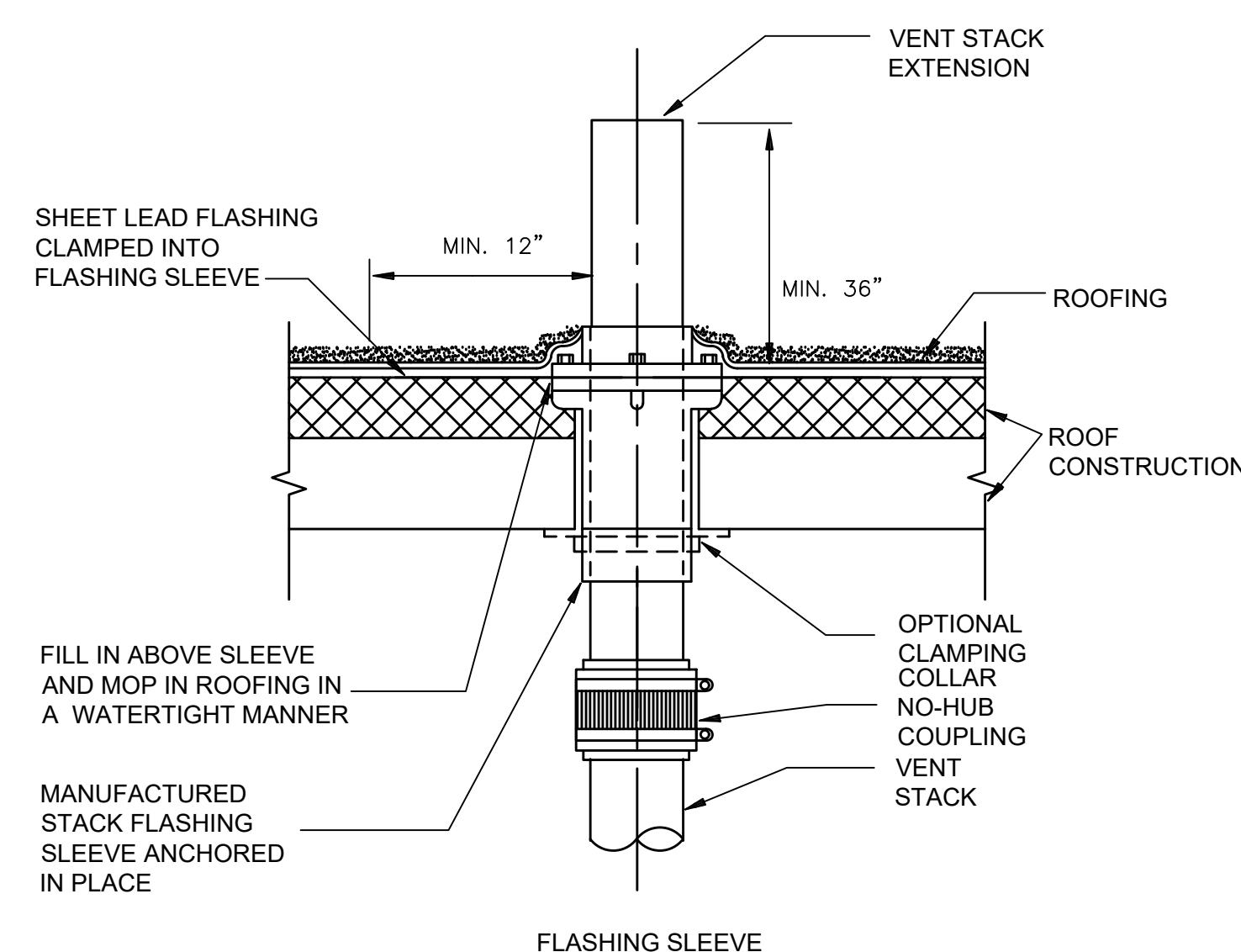
NOTE:
HOT WATER CIRCULATION CONNECTION SHALL BE LOCATED THROUGHOUT BUILDING AS REQUIRED TO ACHIEVE EFFICIENT HOT WATER SUPPLY

MAXIMUM PIPING LENGTH (FEET)		
NOMINAL PIPE SIZE (INCHES)	PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
1/4	6	50
5/16	4	50
3/8	3	50
1/2	2	43
5/8	1	32
3/4	0.5	21

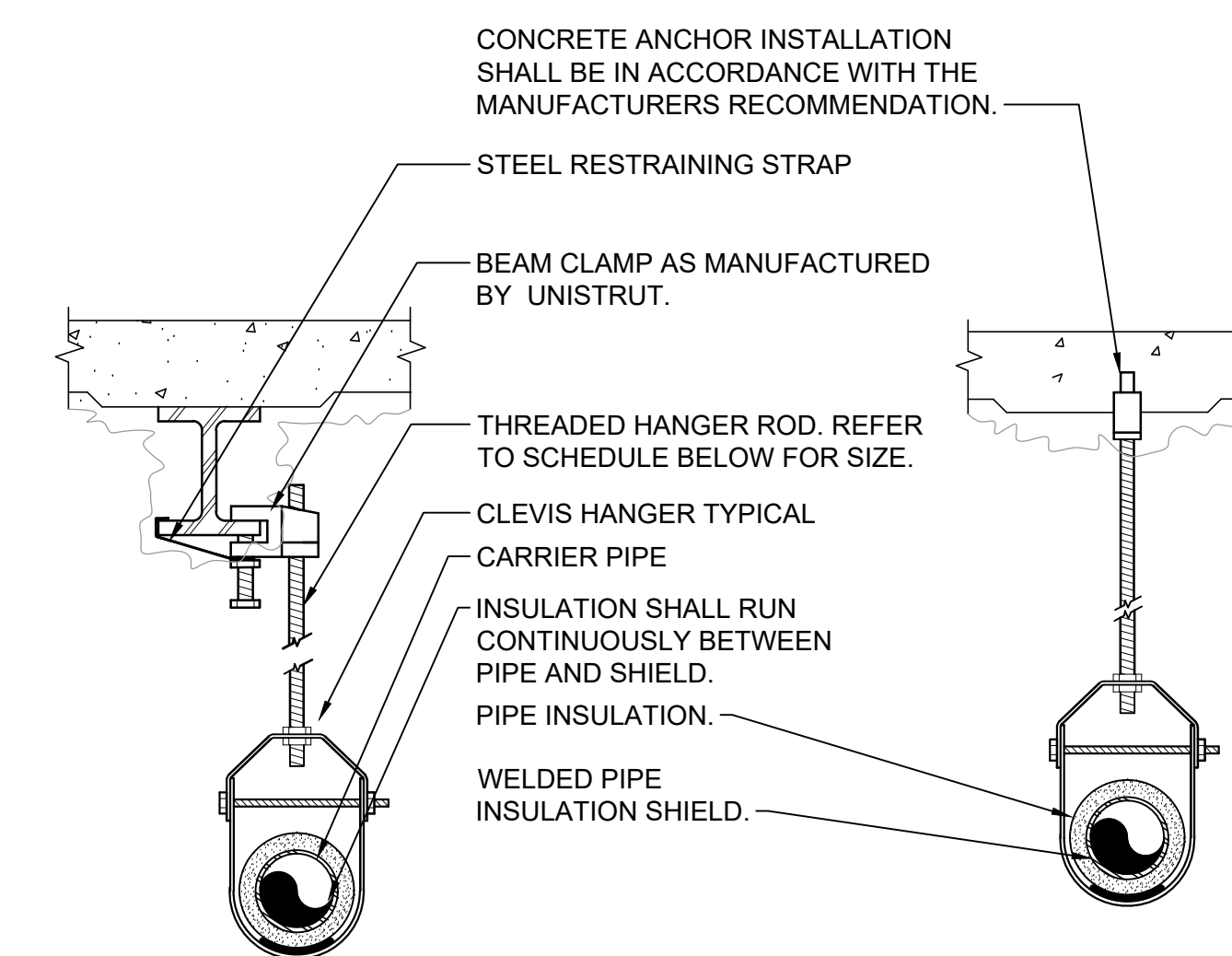
8 HOT WATER RECIRC CONNECTION DETAIL
SCALE: NONE



6 EQUIPMENT GAS CONNECTION SCHEMATIC
SCALE: NONE



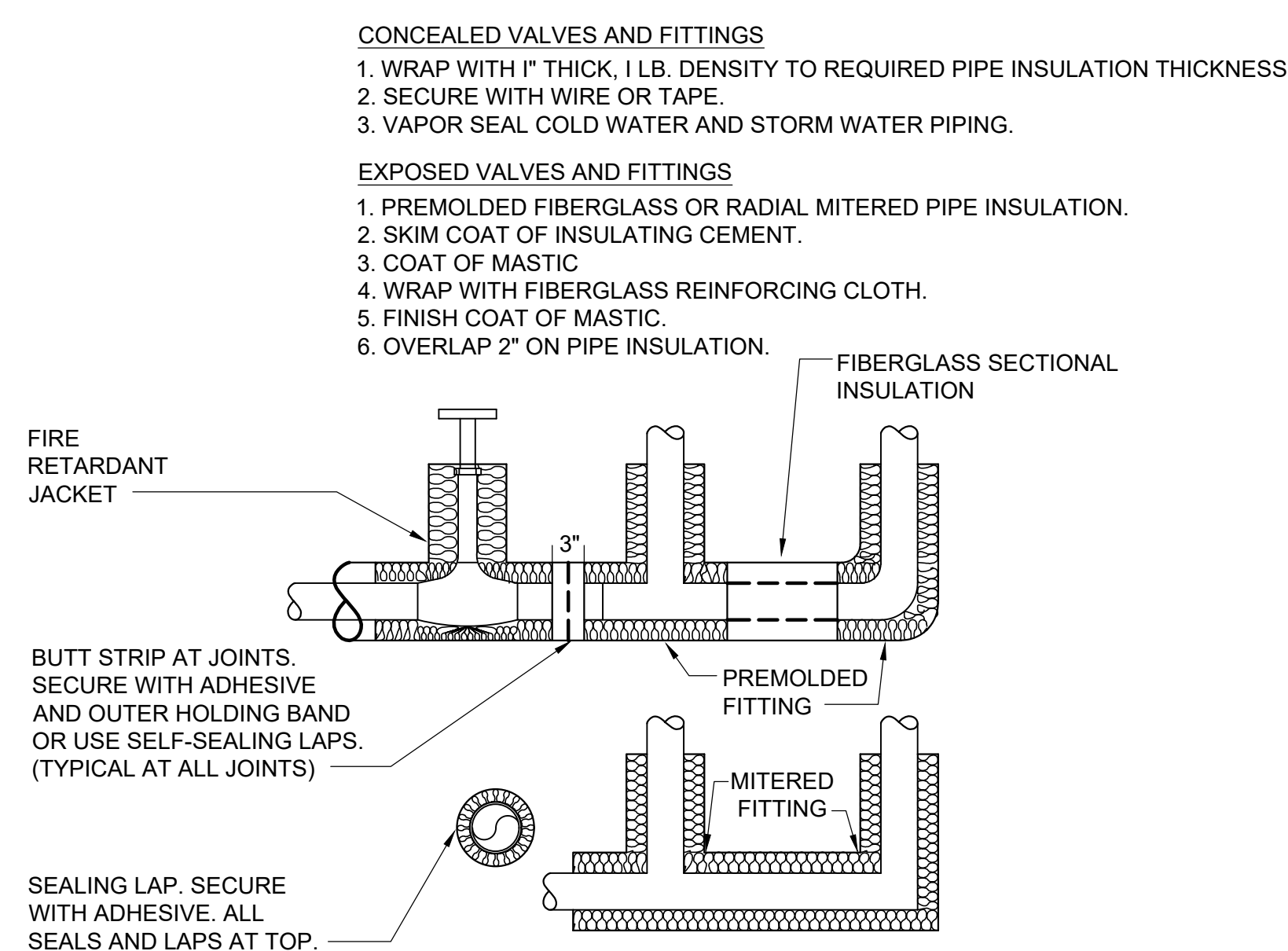
4 VENT THRU ROOF DETAIL
SCALE: NONE



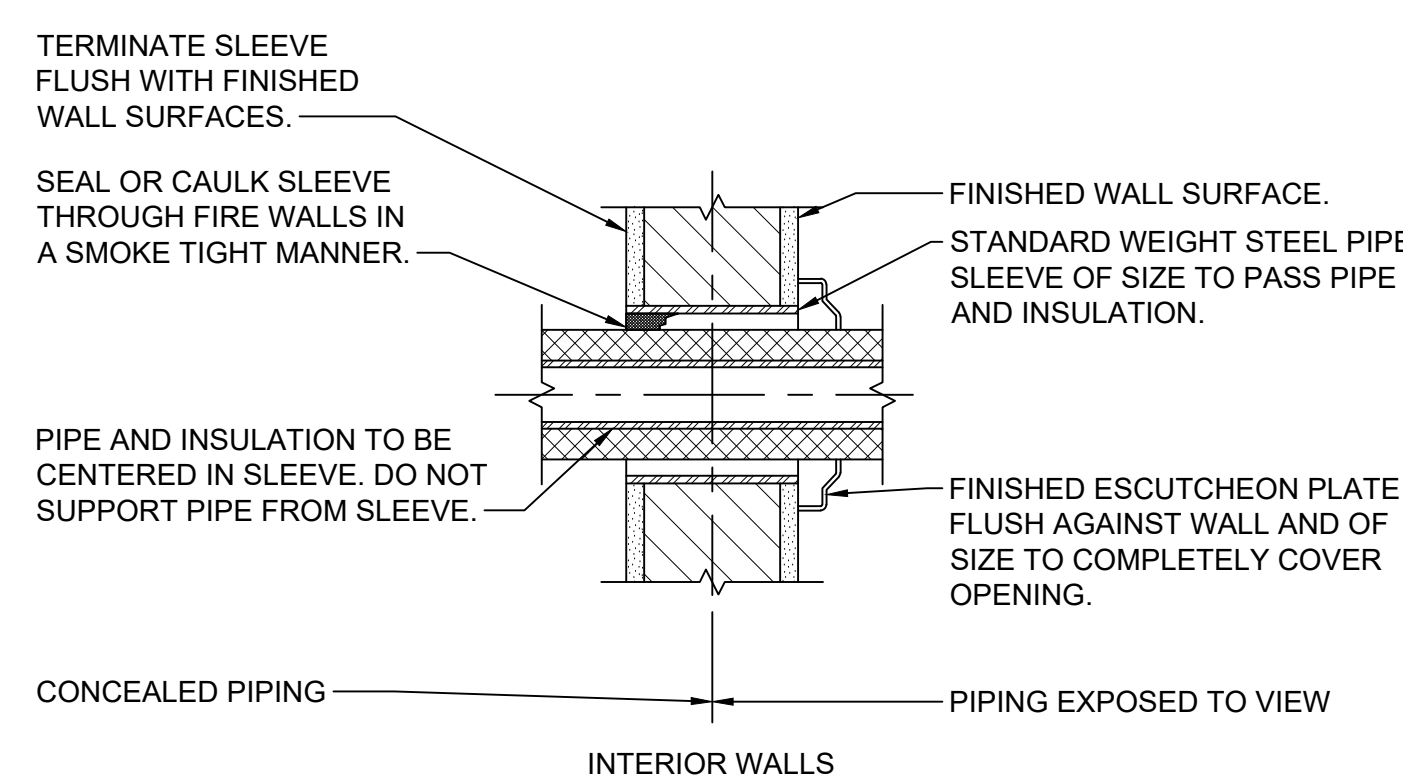
PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

- NOTES:
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
 2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
 3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
 4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
 5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
 6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

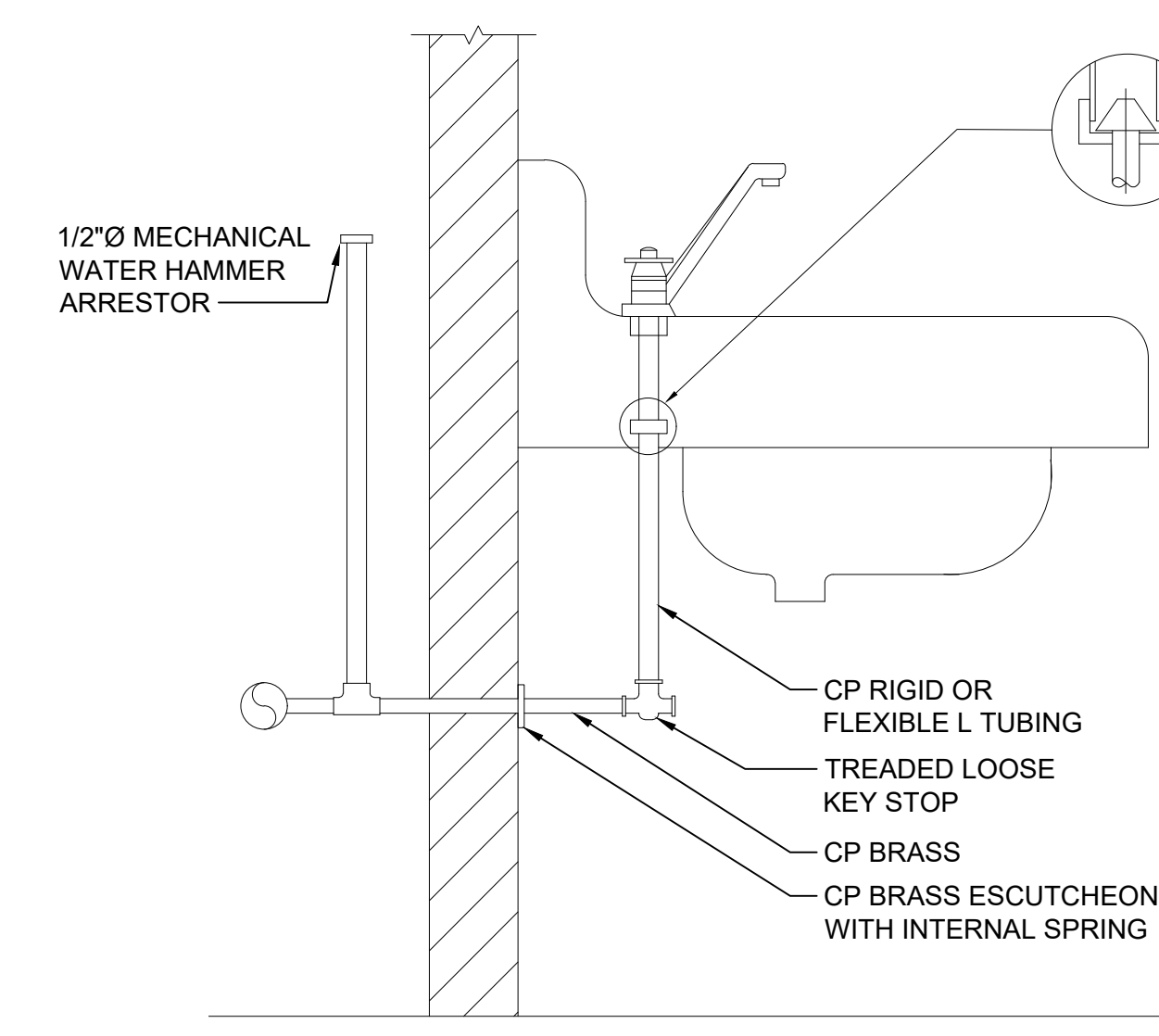
2 PIPE HANGER DETAIL
SCALE: NONE



7 PIPE INSULATION DETAIL
SCALE: NONE

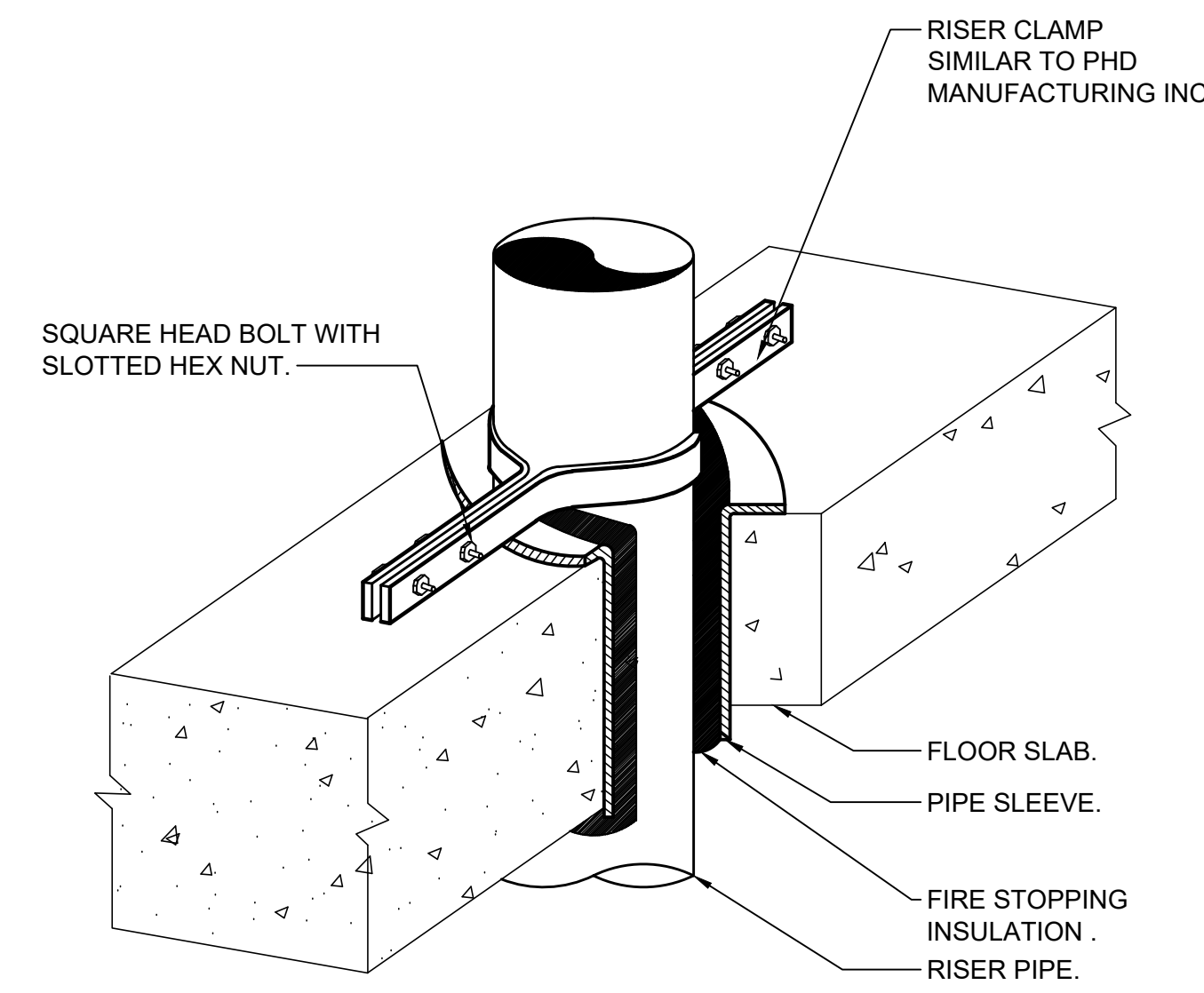


5 PIPE WALL SLEEVE DETAIL FOR INTERIOR WALLS
SCALE: NONE



- NOTE:
1. SIMILAR SUPPLY ARRANGEMENT TO OTHER FIXTURES.

3 SUPPLY LAVATORY SUPPLY CONNECTION
SCALE: NONE



1 VERTICAL PIPE SUPPORT DETAIL
SCALE: NONE

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PLUMBING DETAILS

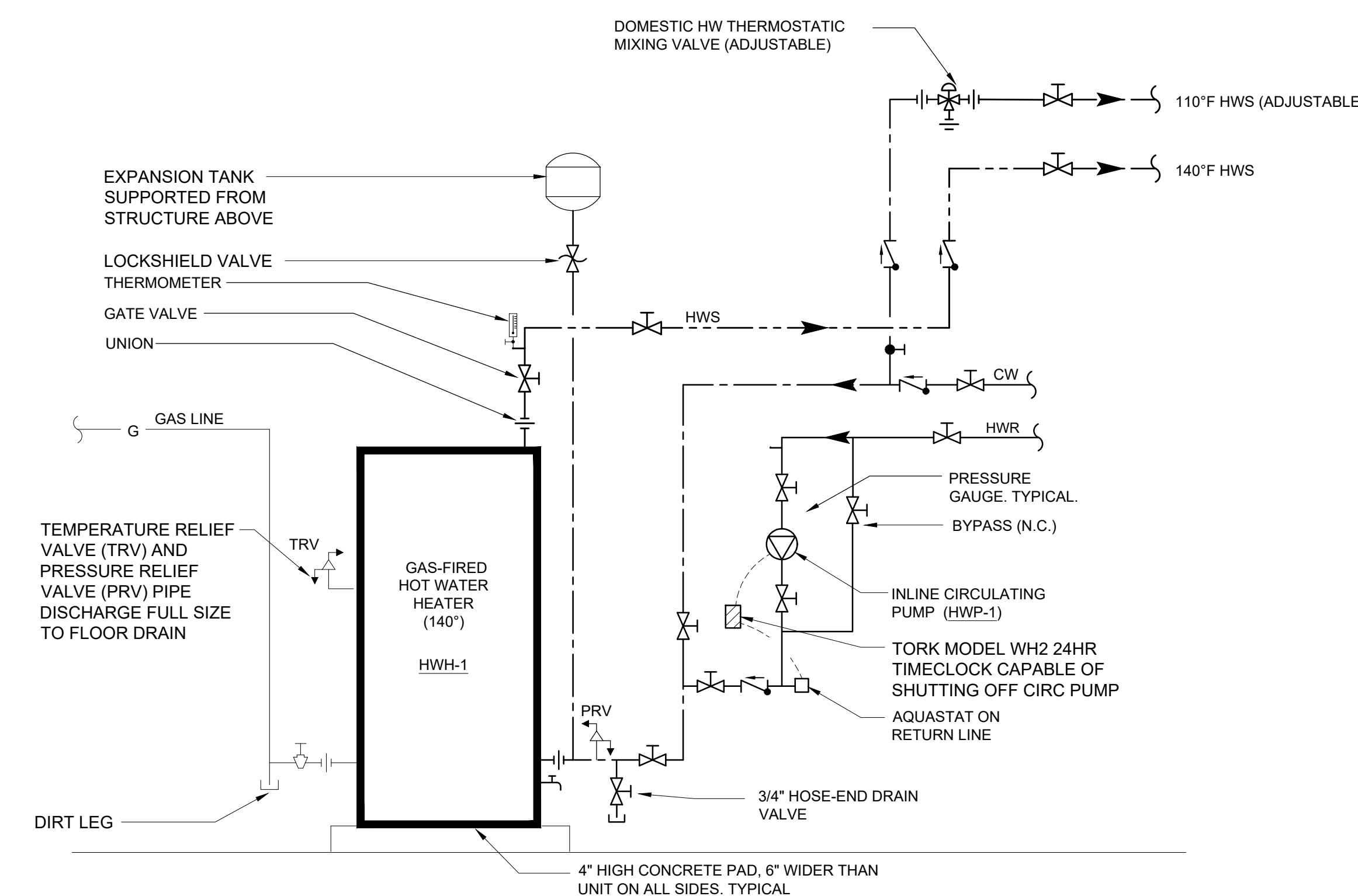
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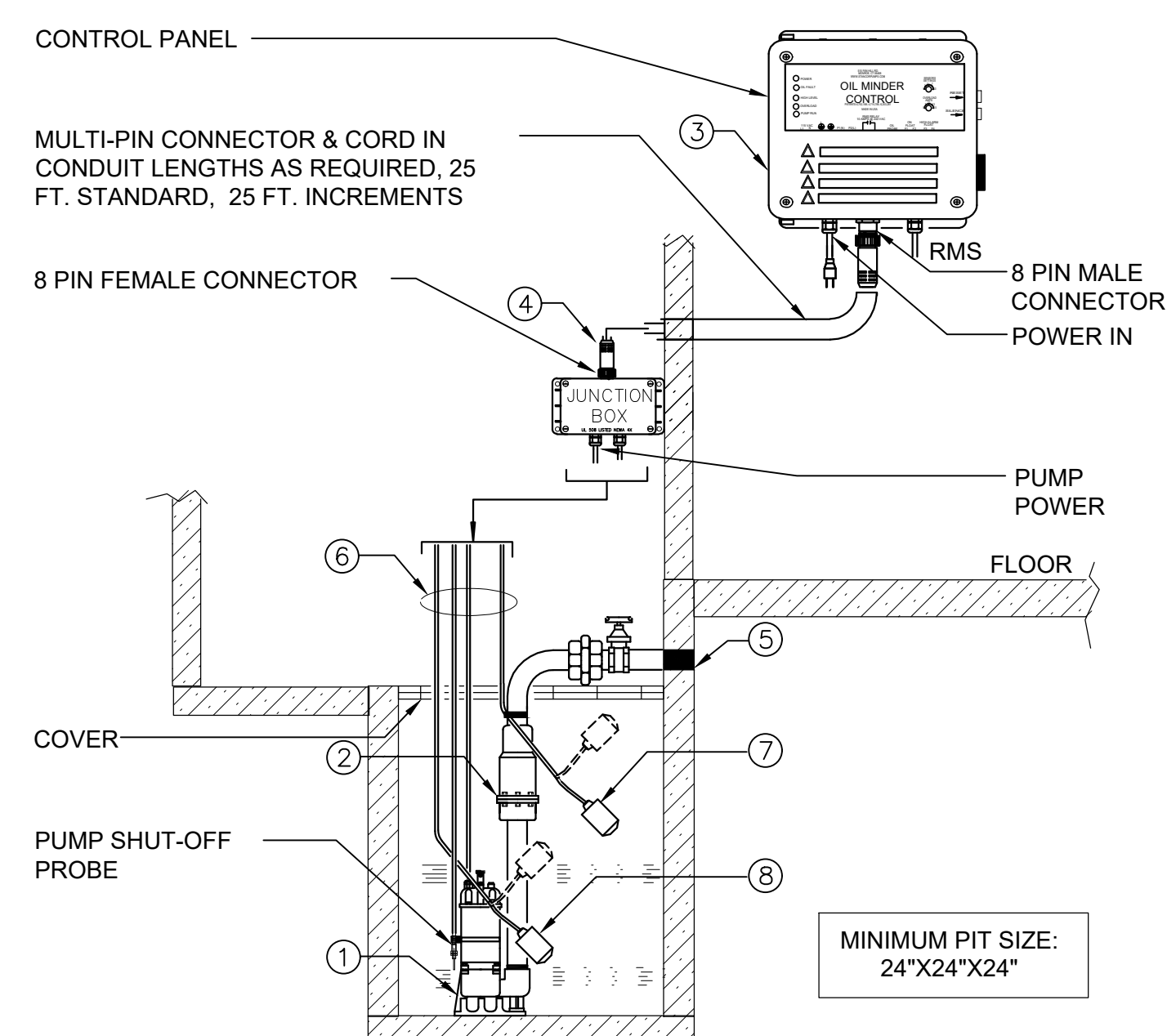
Sheet Number

PLUMBING PIPE MATERIAL SCHEDULE							
PIPE SYSTEM	SIZE	PIPE			FITTINGS		
		MATERIAL	TYPE / WEIGHT	STANDARD	MATERIALS	TYPE / WEIGHT	STANDARD
DOMESTIC WATER PIPING (CW, HWS, HWR)	ALL	COPPER	HARD / TYPE L	ASTM B88	COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
WATER SERVICE PIPING	3/4" - 4"	COPPER	HARD / TYPE K	ASTM B75 ASTM B88	COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
	ALL	DUCTILE IRON	SCHEDULE 40	AWWA C151/A21.51	DUCTILE IRON	GROOVED END	AWWA C606
SANITARY, WASTE, VENT (ABOVE GROUND)	< 4"	COPPER	DWV HARD / TYPE L	ASTM B88	DWV COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
	ALL	CAST IRON	HUBLESS / HUB AND SPIGOT SCHEDULE 40 / SERVICE	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
SANITARY, WASTE, VENT (BELOW GROUND)	ALL	CAST IRON	HUB AND SPIGOT EXTRA-HEAVY	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
BUILDING SEWER	ALL	CAST IRON	HUB AND SPIGOT EXTRA-HEAVY	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
STORM (ABOVE GROUND)	ALL	CAST IRON	HUBLESS / HUB AND SPIGOT SCHEDULE 40 / SERVICE	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
	ALL	CAST IRON	HUBLESS / HUB AND SPIGOT SCHEDULE 40 / SERVICE	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
NATURAL GAS	≤ 4"	STEEL	SCHEDULE 40	ASTM A53 ASTM A106	MALLEABLE IRON	THREADED	ASME B16.3
	> 4"	STEEL	SCHEDULE 40	ASTM A53 ASTM A106	MALLEABLE IRON	WELDED	ASME B16.3

NOTES:
1. INSTALL DUCTILE IRON PIPING UNDER BUILDING SLAB WITH RESTRAINED JOINTS ACCORDING TO AWWA C600 AND AWWA M41.
2. INSTALL UNDERGROUND COPPER AND DUCTILE IRON PIPE IN PE ENCASUREMENT ACCORDING TO ASTM A 674 OR AWWA C105/A21.5
3. DUCTILE IRON WATER SERVICE PIPING SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104.
4. WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL HAVE A WORKING PRESSURE RATING OF NOT LESS THAN 160 PSI AT 73.4 °F
5. ALL MEDICAL GAS PIPE SHALL BE MANUFACTURER CLEANED, PURGED, AND SEALED FOR MEDICAL GAS SERVICE, OR ACCORDING TO CGA G-4.1 FOR OXYGEN SERVICE. INCLUDE STANDARD COLOR MARKING "OXY", "MED", "OXYMED", OR "ACR/MED" IN BLUE FOR TYPE L TUBE.

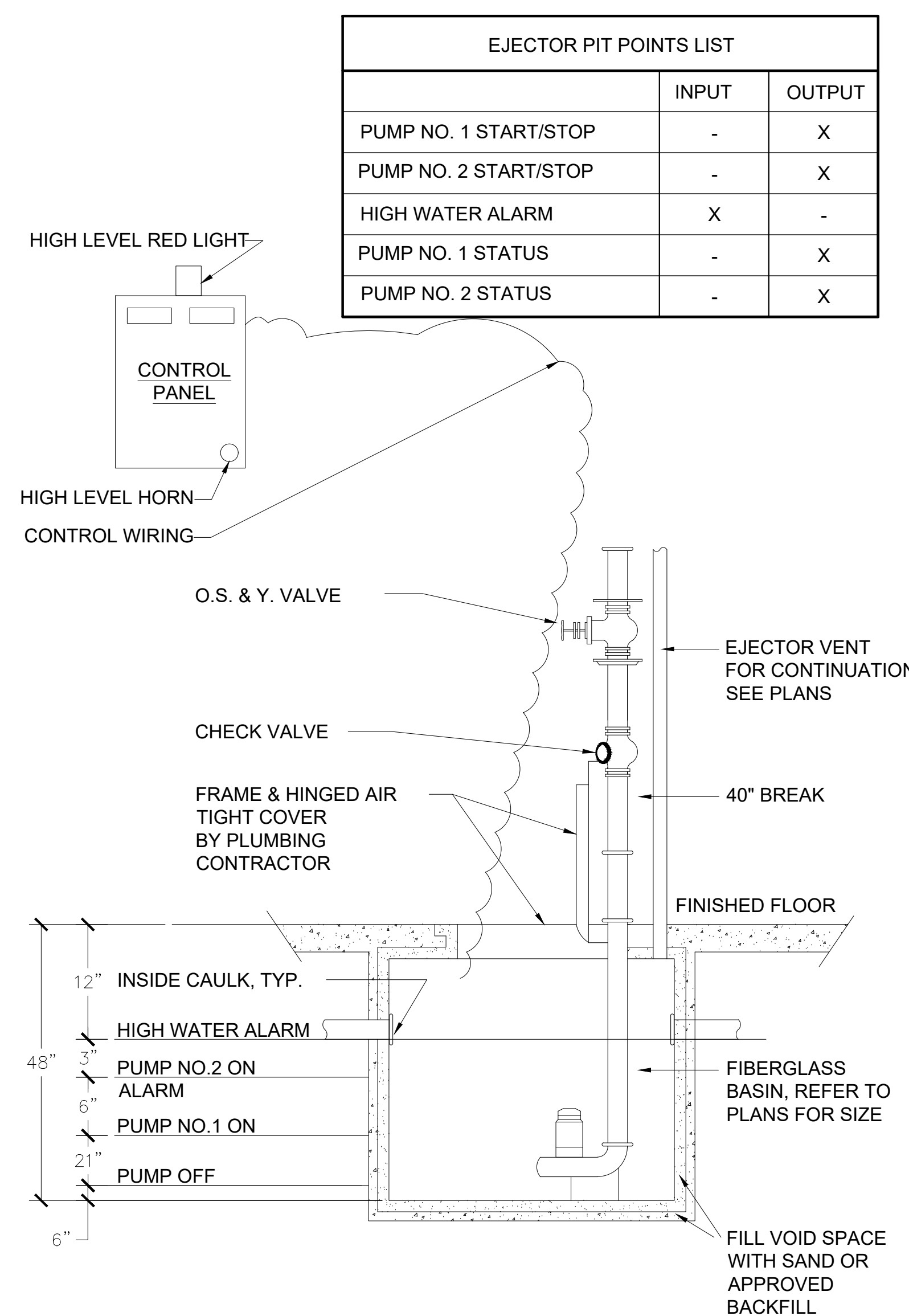


2 HOT WATER HEATER SCHEMATIC
SCALE: NONE

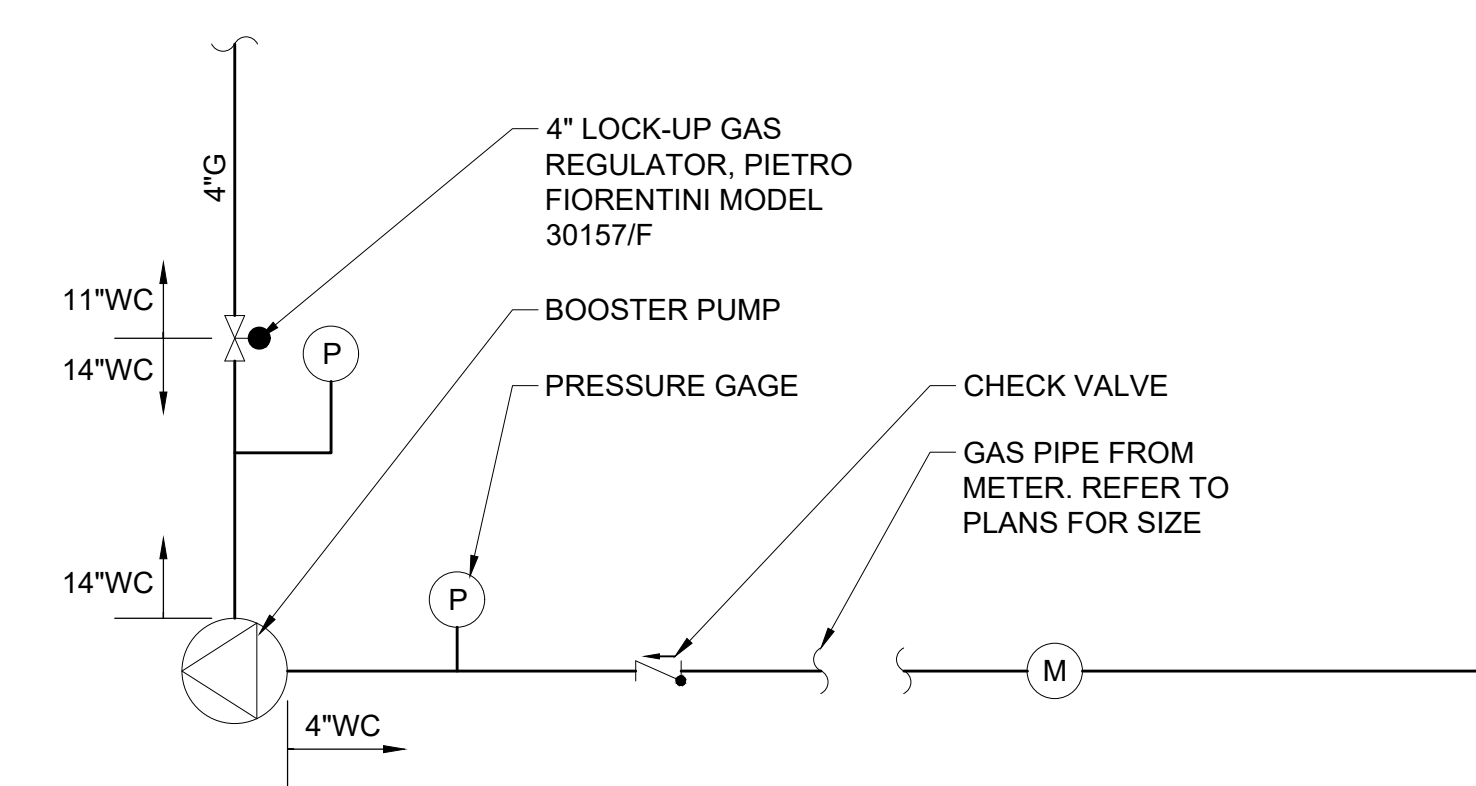


- 1.) STANCOR SUBMERSIBLE EFFLUENT PUMP, 2" DISCHARGE CONNECTION.
- 2.) STANCOR CHECK VALVE.
- 3.) STANCOR OIL MINDER 115V, 10" CONTROL SYSTEM WITH OPTIONAL BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. A JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR & CORD IN LENGTHS AS REQUIRED, 25 FT. IS STANDARD, OPTIONAL 25 FT. INCREMENTS. LIGHTS FOR OIL SPILL, POWER, HIGH LIQUID LEVEL, OVERLOAD & PUMP RUN.
- 4.) JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR AND CORD IN LENGTHS AS REQUIRED, 25 FT. IS STANDARD, OPTIONAL 25 FT. INCREMENTS AVAILABLE.
- 5.) ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPE COAT CT CORROSION PROTECTION TAPE.
- 6.) OIL MINDER CABLE, POWER CABLE, PROBE CABLE, HIGH LIQUID ALARM CABLE & PUMP ON FLOAT CABLE.
- 7.) HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
- 8.) PUMP ON FLOAT.
- 9.) PROVIDE (2) 25 FT LENGTH MULTI-PIN CONNECTOR AND CORD FOR CONNECTION BETWEEN PUMP AND CONTROL PANEL.

4 ELEVATOR SUMP PUMP DETAIL
SCALE: NONE



3 DETAIL OF SUMP PUMP WITHIN SUMP PIT, CONTROLS DIAGRAM AND POINTS LIST
SCALE: NONE



1 GAS BOOSTER PUMP SCHEMATIC
SCALE: NONE

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Job No. NKGD0207.00 Date 03/01/2024

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Sheet Number

P-702

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
-	AC-	AIR CONDITIONING UNIT
-	AD	ACCESS DOOR
-	AFF	ABOVE FINISHED FLOOR
-	AHC	ABOVE HUNG CEILING
-	AP	ACCESS PANEL
-	BHP	BRAKE HORSEPOWER
-	BTU	BRITISH THERMAL UNIT
-	CFM	CUBIC FEET PER MINUTE
-	COD	CABLE OPERATED DAMPER
-	DB	DRY BULB TEMPERATURE
-	DIA. OR Ø	DIAMETER
-	DX	DIRECT EXPANSION
-	EA	EXHAUST AIR
-	EAT	ENTERING AIR TEMPERATURE
-	ER	EXHAUST REGISTER
-	ESP	EXTERNAL STATIC PRESSURE
-	EWT	ENTERING WATER TEMPERATURE
-	FCU	FAN COIL UNIT
-	FPM	FEET PER MINUTE
-	FPS	FEET PER SECOND
-	GPM	GALLONS PER MINUTE
-	HP	HORSE POWER
-	LAT	LEAVING AIR TEMPERATURE
-	LF	LINEAR FEET
-	LWT	LEAVING WATER TEMPERATURE
-	MBH	1000 BRITISH THERMAL UNITS PER HOUR
-	MER	MECHANICAL EQUIPMENT ROOM
-	NIC	NOT IN CONTRACT
-	OAI	OUTSIDE AIR INTAKE
-	PSI	POUNDS PER SQUARE INCH
-	RA	RETURN AIR
-	RF-	RETURN FAN
-	RPM	REVOLUTIONS PER MINUTE
-	SA	SUPPLY AIR
-	SP	STATIC PRESSURE
-	TD	TRANSFER DUCT
-	TF-	TRANSFER FAN
-	TSP	TOTAL STATIC PRESSURE
-	TYP.	TYPICAL
-	U.O.N.	UNLESS OTHERWISE NOTED
-	WB	WET BULB TEMPERATURE
-	WG	INCHES OF WATER GAUGE
---	EX.	EXISTING TO REMAIN
----	REL.	REMOVE AND RELOCATE
=====	NEW	NEW WORK
-----	DEM.	EXISTING TO BE REMOVED
Ⓧ	-	THERMOSTAT
Ⓞ	-	CARBON DIOXIDE DETECTOR
Ⓢ	-	DUCT MOUNTED SMOKE DETECTOR
C/N	-	CARBON MONOXIDE / NOX SENSOR
+	-	AIR INTO REGISTER
⊗	-	POINT OF CONNECTION DISCONNECTION
⊕	SR	SUPPLY REGISTER
⊗	CD	1-WAY
⊗	CD	2-WAY
⊗	CD	2-WAY
⊗	CD	3-WAY
⊗	CD	4-WAY
⊗RR/RG/ER	-	RETURN REGISTER/GRILLE/EXHAUST REGISTER
⊗	-	SUPPLY DUCT UP
⊗	-	SUPPLY DUCT DOWN
⊗	-	RETURN DUCT UP
⊗	-	RETURN DUCT DOWN
⊗	-	TRANSITION FROM SQUARE TO ROUND DUCT
⊗	-	TRANSITION
D	-	DUCT DROP
R	-	DUCT RISE
⊗	-	SQUARE VANED ELBOW
⊕	-	DUCT RISE
⊕	-	DUCT DROP
⊕	-	DUCT TRANSITION
----	-	ALUMINUM DUCT
----	AL	ACOUSTIC LINING
⊕	FD/AD	FIRE DAMPER W/ ACCESS DOOR
⊕	SD/AD	SMOKE DAMPER W/ ACCESS DOOR

SYMBOL **ABBREVIATION** **DESCRIPTION**

⊕	SD/AD	SMOKE DAMPER W/ ACCESS DOOR
⊕	CFSD	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS DOOR
⊕	VD	VOLUME DAMPER
⊕	AL	ACOUSTIC LINING
6x8	-	DUCT SIZE - 1ST FIGURE IS SIDE SHOWN
⊕	FC	FLEXIBLE CONNECTION
⊕	-	ALUMINUM DUCT
⊕	-	EXHAUST REGISTER
⊕	-	NEW CEILING DIFFUSER

COMMISSIONING NOTES

- REFER TO SPECIFICATION SECTION 230800. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A 3RD PARTY COMMISSIONING AGENT.
- PRIOR TO COMMISSIONING, THE CONTRACTOR SHALL PROVIDE A STATEMENT CONFIRMING THAT ALL SYSTEMS ARE FULLY OPERATIONAL AND ALL PRE-FUNCTIONAL TESTS AND CHECKS LISTED BELOW HAVE BEEN SUCCESSFULLY COMPLETED. SUBMIT A COPY OF ALL CHECK SHEETS FOR ENGINEER REVIEW AND APPROVAL.
- PRE-FUNCTIONAL TESTS AND CHECKS (PREREQUISITES FOR COMMISSIONING):
 - THE CONTRACTOR SHALL PERFORM THE FOLLOWING AT A MINIMUM -
 - ENSURE THAT ALL SUBMITTALS ARE COMPLETED AND APPROVED BY ENGINEER AND COMMISSIONING AGENT.
 - CERTIFY THAT ALL SYSTEMS TO BE COMMISSIONED, SUBSYSTEMS AND EQUIPMENT HAVE BEEN INSTALLED, CALIBRATED AND STARTED, ACCORDING TO THE CONTRACT DOCUMENTS COMPLETE. ALL MANUFACTURER STARTUP REQUIREMENTS.
 - CERTIFY THAT ALL RELEVANT INSTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN COMPLETED AND CALIBRATED; ARE OPERATING ACCORDING TO CONTRACT DOCUMENTS; AND THAT PRETEST SET POINTS HAVE BEEN RECORDED.
 - CERTIFY THAT TESTING, ADJUSTING AND BALANCING (TAB) PROCEDURES HAVE BEEN COMPLETED AND THE TAB REPORT HAS BEEN SUBMITTED, DISCREPANCIES CORRECTED AND CORRECTIVE WORK APPROVED BY THE ENGINEER.
 - SET SYSTEMS, SUBSYSTEMS AND EQUIPMENT TO OPERATING MODE TO BE TESTED (E.G., NORMAL SHUT DOWN, NORMAL AUTO POSITION, NORMAL MANUAL POSITION, AND ALARM CONDITIONS).
 - VERIFY EACH OF THE SYSTEMS ONCE IT IS OPERATING IN A STEADY STATE CONDITION. REFER TO THE SEQUENCE OF OPERATIONS.
 - INSPECT AND VERIFY THE POSITION OF EACH DEVICE AND INTERLOCK IDENTIFIED ON CHECKLISTS. SIGN OFF EACH ITEM AS ACCEPTABLE OR FAILED. REPEAT THIS TEST FOR EACH OPERATING CYCLE THAT APPLIES TO SYSTEM BEING TESTED.
 - SIMULATE CONDITIONS REQUIRED IN ORDER TO TEST ALL SAFETY CUTOUPS, ALARMS AND INTERLOCKS WITH LIFE SAFETY SYSTEMS DURING EACH MODE OF OPERATION WHEN APPLICABLE.
 - ANNOTATE CHECKLIST OR DATA SHEET WHEN A DEFICIENCY IS OBSERVED.
 - VERIFY EQUIPMENT INTERFACE WITH MONITORING AND CONTROL SYSTEM.
- AFTER PRE-FUNCTIONAL TESTING IS COMPLETE, THE CONTRACTOR SHALL PERFORM FUNCTIONAL TESTING IN THE PRESENCE OF THE COMMISSIONING AGENT FOR THE SYSTEMS LISTED BELOW IN ACCORDANCE WITH THE COMMISSIONING SPECIFICATIONS:
 - ROOFTOP UNITS
 - DOAS UNITS
 - CONDENSING UNITS
 - VRF SYSTEMS
 - PUMPS
 - AIR HANDLERS
 - CONTROL DAMPERS AND CONTROL VALVES
 - AUTOMATIC CONTROLS
- AFTER FUNCTIONAL TESTING, THE COMMISSIONING AGENT (CX) SHALL ISSUE A REPORT OF TEST RESULTS AND DOCUMENT ANY DEFICIENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ALL DEFICIENCIES. THE CONTRACTOR SHALL SEND A WRITTEN RESPONSE TO THE OWNER/ENGINEER/CX AGENT THAT AN OPEN ISSUE HAS BEEN RECTIFIED. THE DEFICIENCY SHALL NOT BE CONSIDERED RESOLVED UNTIL THE APPROPRIATE RETESTING IS PERFORMED WITH THE CX AGENT.
- PRIOR TO TURNOVER (OWNER ACCEPTANCE), A COMPLETE AND SUCCESSFUL DEMONSTRATION OF ALL SYSTEM OPERATING FUNCTIONS AND ALARMS SHALL BE PERFORMED BY THIS CONTRACTOR IN THE PRESENCE OF THE OWNERS REPRESENTATIVE AND COMMISSIONING AGENT.
- IN ADDITION TO THE ABOVE, THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:
 - PARTICIPATE IN MAINTENANCE ORIENTATION AND INSPECTION MEETING.
 - PARTICIPATE IN PROCEDURES MEETING FOR TESTING.
 - EXECUTE INSTALLATION PRE-FUNCTIONAL CHECK SHEETS.
 - SUPPORT FUNCTIONAL TESTING WITH QUALIFIED TECHNICIANS.
 - RESPOND TO CX DEFICIENCIES IN ACCORDANCE WITH OWNER SCHEDULE.
 - PARTICIPATE IN FINAL REVIEW AT ACCEPTANCE MEETING.
 - NOTIFY COMMISSIONING AGENT AT MINIMUM TWO WEEKS IN ADVANCE OF ANY TESTING.

GENERAL NOTES

- CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, SHEET METAL, AND PIPING, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT, SHEET METAL, AND PIPING LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.
- THE MECHANICAL CONTRACTOR SHALL INSTALL FIRE DAMPERS WITH ACCESS DOORS IN ALL DUCTS PENETRATING FIRE RATED WALLS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL VOLUME DAMPERS IN DUCTWORK AS REQUIRED TO BALANCE THE AIRFLOW AT ALL REGISTERS AND DIFFUSERS TO THE CFM'S INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- ACOUSTICALLY LINE ALL TRANSFER DUCTS. ACOUSTIC LINING SHALL BE 1" THICK. PROVIDE RETURN REGISTERS AT TRANSFER DUCT INLETS & OUTLETS LOCATED BELOW THE CEILING, OR IN AREAS WITH NO CEILING.
- DUCT-MOUNTED SMOKE DETECTORS AND SAMPLING TUBES SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL EACH SAMPLING TUBE IN THE DUCTWORK. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE EACH SMOKE DETECTOR. THE MECHANICAL CONTRACTOR SHALL NOT BRANCH OFF ANY DUCT REQUIRING A DUCT SMOKE DETECTOR BEFORE THE DUCT SMOKE DETECTOR. LOCATE SMOKE DETECTORS IN SERVICEABLE AREAS, NOT IN SHAFTS.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE MECHANICAL CONTRACTOR FOR HVAC EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- DUCT DIMENSIONS SHOWN ON MECHANICAL DRAWINGS REFER TO INSIDE CLEAR DUCT DIMENSIONS. WHERE DUCTWORK IS LINED, THE MECHANICAL CONTRACTOR SHALL INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.
- LOCATE THERMOSTATS AND TEMPERATURE SENSORS 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS, ETC. FURNISH LOCKING TAMPERPROOF COVER FOR ALL NEW THERMOSTATS IN PUBLIC AREAS. THERMOSTATS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.
- COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, SPRINKLER HEADS, SMOKE DETECTORS, AND THE ARCHITECTURAL PLANS.
- THE MECHANICAL CONTRACTOR SHALL NOTE THAT, IN ADDITION TO THE SPECIFICATIONS AND DETAILS GIVEN IN THESE PLANS FOR PIPE HANGERS AND SUPPORTS, ALL HANGERS AND SUPPORTS SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH APPLICABLE SEISMIC CODES.
- THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK, PLUMBING, SPRINKLER PIPING, STRUCTURAL, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, ETC.
- ALL WORK SHALL COMPLY WITH STATE BUILDING CODE, LOCAL BUILDING CODE, AND ENERGY CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS. FLOOR REGISTERS AND GRILLES SHALL ALSO BE COVERED WITH 1/8" MASONITE.
- WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH NEW.
- THE OWNER'S PERMANENT HVAC EQUIPMENT SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, OR VENTILATION. IF TEMPORARY HEATING, COOLING, OR VENTILATION IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.
- WHERE BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF MECHANICAL WORK, INCLUDING THE INSTALLATION OF HANGERS FOR PIPING, DUCTWORK, OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.
- ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.
- ALL DUCTWORK SHALL CONNECT TO EQUIPMENT WITH FLEXIBLE CONNECTIONS.
- CONTRACTOR TO VERIFY ALL REFRIGERANT PIPE ROUTING AND SIZING WITH MANUFACTURER FOR AC, AH, AND VRF UNIT SYSTEMS. IF MAXIMUM LENGTH OF PIPE (AS DETERMINED BY MANUFACTURER) DOES NOT ALLOW ROUTING AS SHOWN, CONTRACTOR TO ALERT THE ARCHITECT AND ENGINEER SO THAT AN ALTERNATIVE MAY BE PROPOSED.
- BUILDING LOADS HAVE BEEN CALCULATED USING AN APPROVED COMPUTATIONAL PROGRAM.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build

KG+D ARCHITECTS, PC

285 MAIN STREET- MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

OLA Consulting Engineers

50 Broadway,
Hawthorne, NY 10532
914.747.2800

8 West 38th Street,
Suite 501
New York, NY 10018
646.849.4110

olacoe.com

CONSTRUCTION DOCUMENTS

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

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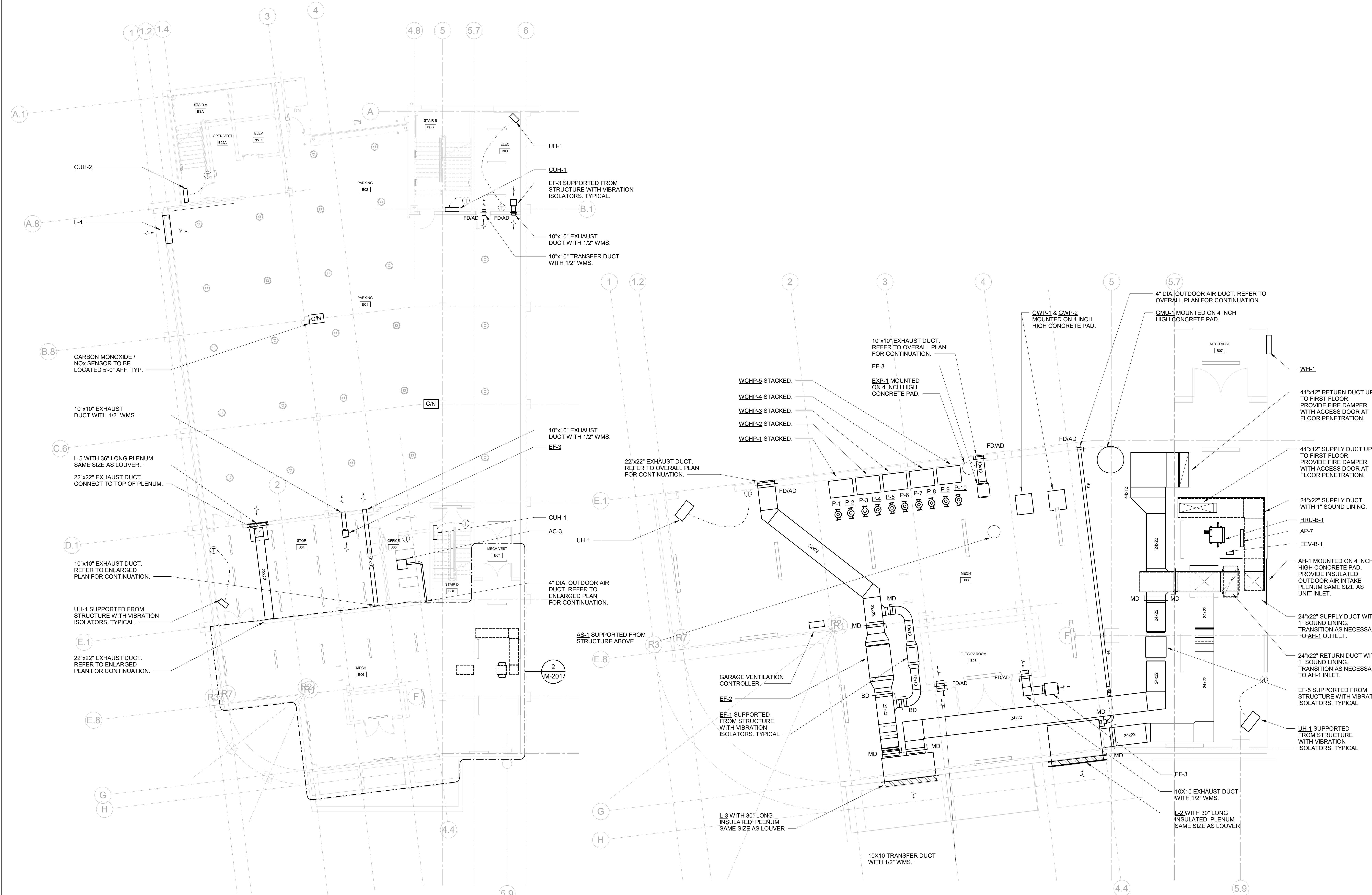
MECHANICAL SYMBOLS, ABBREVIATIONS, & NOTES

Job No. NKGD0207.00 Date 03/01/2024

Scale AS NOTED Drawn / Checked HM / RG

Sheet Number **M-001**

No.	Date	Issue
7	10/08/2024	CONFORMED SET
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4	06/05/2024	ISSUED FOR BID
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1	03/13/2020	50% DESIGN DEVELOPMENT



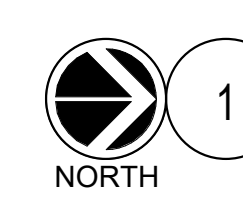
1 MECHANICAL PARKING FLOOR PLAN
SCALE: 1/8" = 1'-0"
NOTES:
1. ALL WALL MOUNTED GRILLES SHALL BE MOUNTED ONE CMU BLOCK ABOVE DOOR. CONTRACTOR SHALL COORDINATE LOCATION WITH FINAL CMU BLOCK LAYOUT.

2 MECH B06 ENLARGED PLAN
SCALE: 1/4" = 1'-0"
NOTES:
1. ROUTE ALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	09/01/2023	DESIGN DEVELOPMENT
1	03/13/2020	50% DESIGN DEVELOPMENT

MECHANICAL FIRST FLOOR PLAN

Job No.	NKGD0207.00	Date	02/16/2024
Scale	AS NOTED	Drawn / Checked	HM / RG
Sheet Number	M-202		

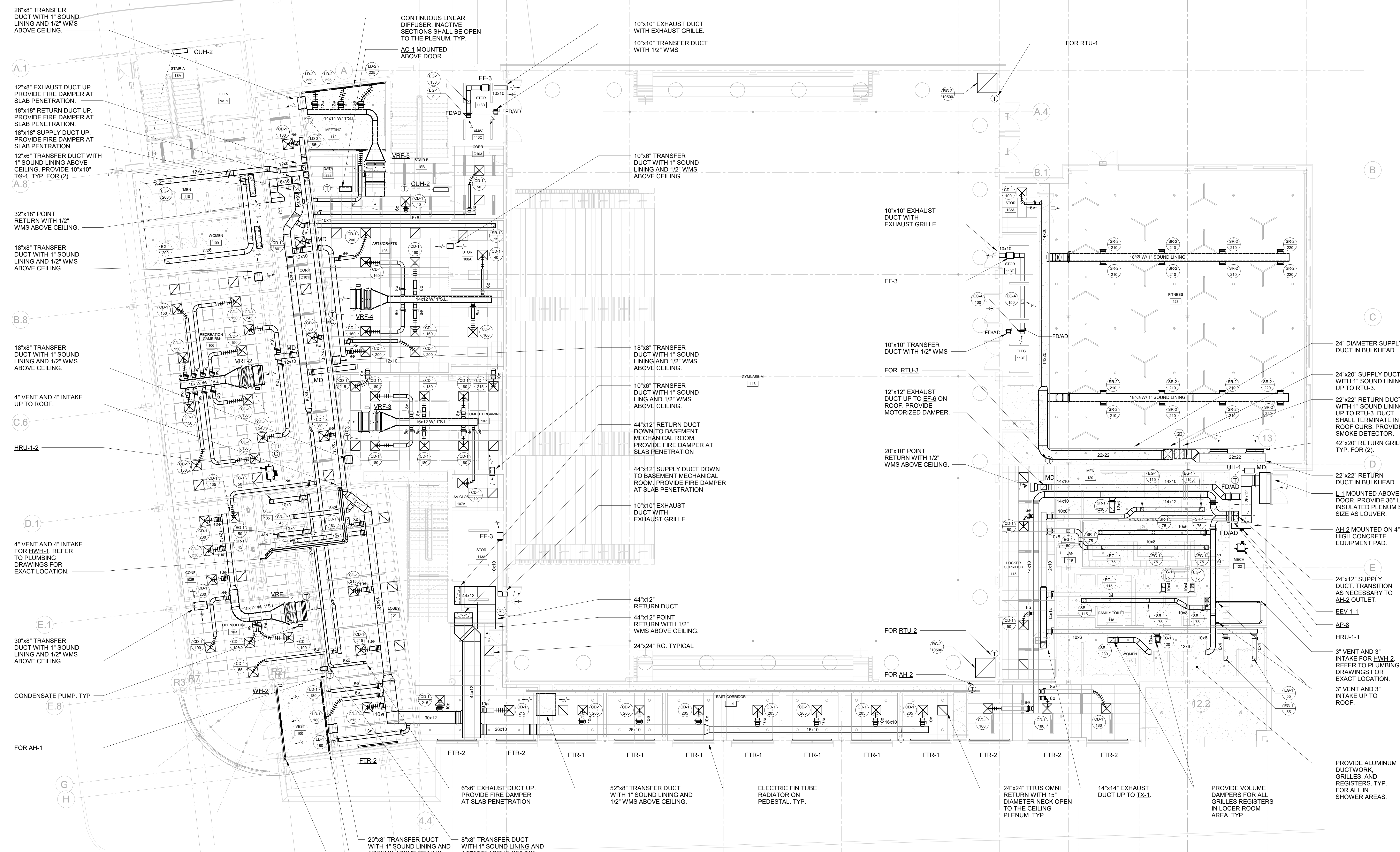


MECHANICAL FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. DUCTED VRF INDOOR UNITS: PROVIDE 24" DEEP, ACOUSTICALLY LINED, FULL SIZED RETURN AIR DUCT AT RETURN AIR CONNECTION WITH FILTER BANK AND VOLUME OR MOTORIZED DAMPER WHERE CALLED OUT.
2. PROVIDE 'YOUNG' REGULATOR VOLUME DAMPERS IN ALL HARD CEILING AREAS FOR BALANCING PURPOSES.
3. ALL VRF UNITS SHALL BE HUNG FROM STRUCTURE ABOVE. PROVIDE VIBRATION ISOLATORS.
4. ALL WALL MOUNTED GRILLES SHALL BE MOUNTED ONE CMU BLOCK ABOVE DOOR. CONTRACTOR SHALL COORDINATE LOCATION WITH FINAL CMU BLOCK LAYOUT.



28"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

12"x18" EXHAUST DUCT UP. PROVIDE FIRE DAMPER AT SLAB PENETRATION.

18"x18" RETURN DUCT UP. PROVIDE FIRE DAMPER AT SLAB PENETRATION.

18"x18" SUPPLY DUCT UP. PROVIDE FIRE DAMPER AT SLAB PENETRATION.

12"x6" TRANSFER DUCT WITH 1" SOUND LINING ABOVE CEILING. PROVIDE 10"x10" TG-1. TYP. FOR (2).

32"x18" POINT RETURN WITH 1/2" WMS ABOVE CEILING.

18"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

18"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

4" VENT AND 4" INTAKE UP TO ROOF.

HRU-1-2

4" VENT AND 4" INTAKE FOR HRU-1. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

E.1

30"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

CONDENSATE PUMP. TYP.

FOR AH-1

6"x6" EXHAUST DUCT UP. PROVIDE FIRE DAMPER AT SLAB PENETRATION.

20"x6" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

8"x6" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

CONTINUOUS LINEAR DIFFUSER. INACTIVE SECTIONS SHALL BE OPEN TO THE PLENUM. TYP.

PROVIDE CONTINUOUS LINEAR RETURN WITH ONE (1) 1'-6" SLOT. RETURN SHALL BE OPEN TO THE CEILING. TITUS FL-15. TYPICAL.

CONTINUOUS LINEAR DIFFUSER. INACTIVE SECTIONS SHALL BE OPEN TO THE PLENUM. TYP.

AC-1 MOUNTED ABOVE DOOR.

10"x10" EXHAUST DUCT WITH EXHAUST GRILLE.

10"x10" TRANSFER DUCT WITH 1/2" WMS

10"x6" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

18"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

10"x6" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

44"x12" RETURN DUCT DOWN TO BASEMENT MECHANICAL ROOM. PROVIDE FIRE DAMPER AT SLAB PENETRATION.

44"x12" SUPPLY DUCT DOWN TO BASEMENT MECHANICAL ROOM. PROVIDE FIRE DAMPER AT SLAB PENETRATION.

10"x10" EXHAUST DUCT WITH EXHAUST GRILLE.

44"x12" RETURN DUCT.

44"x12" POINT RETURN WITH 1/2" WMS ABOVE CEILING.

24"x24" RG. TYPICAL.

52"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

ELECTRIC FIN TUBE RADIATOR ON PEDESTAL. TYP.

24"x24" TITUS OMNI RETURN WITH 15" DIAMETER NECK OPEN TO THE CEILING PLENUM. TYP.

14"x14" EXHAUST DUCT UP TO TX-1.

PROVIDE VOLUME DAMPERS FOR ALL GRILLES/REGISTERS IN LOCKER ROOM AREA. TYP.

PROVIDE ALUMINUM DUCTWORK, GRILLES, AND REGISTERS. TYP. FOR ALL IN SHOWER AREAS.

FOR RTU-1

10"x10" EXHAUST DUCT WITH EXHAUST GRILLE.

EF-3

10"x10" TRANSFER DUCT WITH 1/2" WMS

FOR RTU-3

12"x12" EXHAUST DUCT UP TO EF-6 ON ROOF. PROVIDE MOTORIZED DAMPER.

20"x10" POINT RETURN WITH 1/2" WMS ABOVE CEILING.

FOR RTU-2

FOR AH-2

24" DIAMETER SUPPLY DUCT IN BULKHEAD.

24"x20" SUPPLY DUCT WITH 1" SOUND LINING UP TO RTU-3.

22"x22" RETURN DUCT WITH 1" SOUND LINING UP TO RTU-3. DUCT SHALL TERMINATE IN ROOF CURB. PROVIDE SMOKE DETECTOR.

42"x20" RETURN GRILLE. TYP. FOR (2).

22"x22" RETURN DUCT IN BULKHEAD.

L-1 MOUNTED ABOVE DOOR. PROVIDE 36" LONG INSULATED PLENUM SAME SIZE AS LOUVER.

AH-2 MOUNTED ON 4" HIGH CONCRETE EQUIPMENT PAD.

24"x12" SUPPLY DUCT TRANSITION AS NECESSARY TO AH-2 OUTLET.

EEV-1-1

AP-8

HRU-1-1

3" VENT AND 3" INTAKE FOR HW-2 REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

3" VENT AND 3" INTAKE UP TO ROOF.

7	10/08/2024	CONFORMED SET
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2	09/01/2023	DESIGN DEVELOPMENT
1	03/13/2020	50% DESIGN DEVELOPMENT

No. Date Issue

Sheet Title

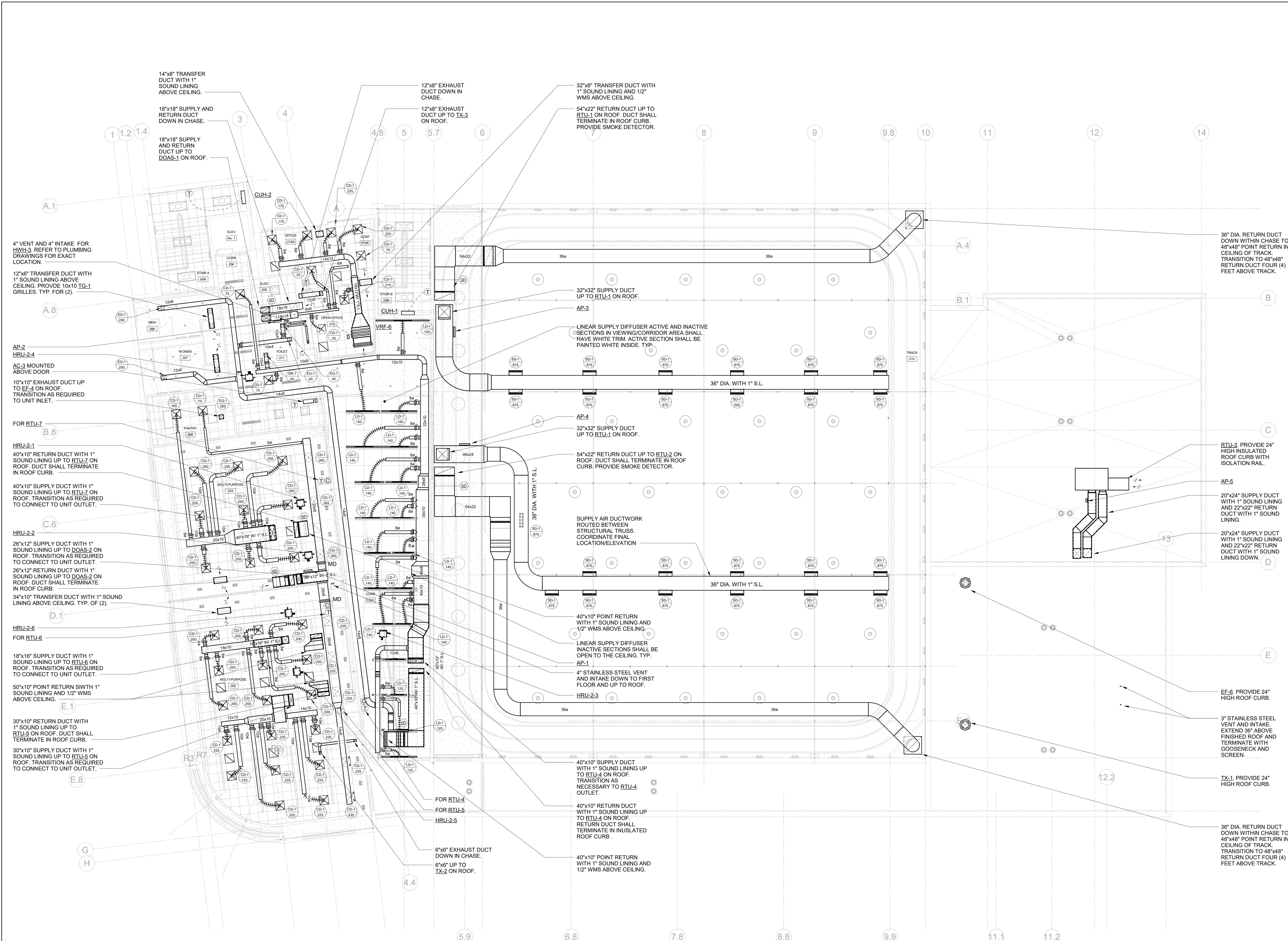
**MECHANICAL
SECOND FLOOR
PLAN**

Job No. NKGD0207.00 Date 02/16/2024

Scale AS NOTED Drawn / Checked HM / RG

Sheet Number

M-203



MECHANICAL SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

- NOTES:
- DUCTED VRF INDOOR UNITS: PROVIDE 24" DEEP, ACOUSTICALLY LINED, FULL SCALE RETURN AIR DUCT AT RETURN AIR CONNECTION WITH FILTER BANK AND VOLUME OR MOTORIZED DAMPER WHERE CALLED OUT.
 - PROVIDE 'YOUNG' REGULATOR VOLUME DAMPERS IN ALL HARD CEILING AREAS FOR BALANCING PURPOSES.
 - ALL VRF UNITS SHALL BE HUNG FROM STRUCTURE ABOVE. PROVIDE VIBRATION ISOLATORS

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D listen
imagine
build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGARCHITECTS.COM

OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 501
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646.849.4110
olace.com

CONSTRUCTION DOCUMENTS

Key Plan

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No.	Date	Issue
7	10/09/2024	CONFIRMED SET
5	07/01/2024	BID ADDENDUM #2
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3	01/16/2024	ISSUED FOR PERMIT
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1	03/12/2020	50% DESIGN DEVELOPMENT

Sheet Title

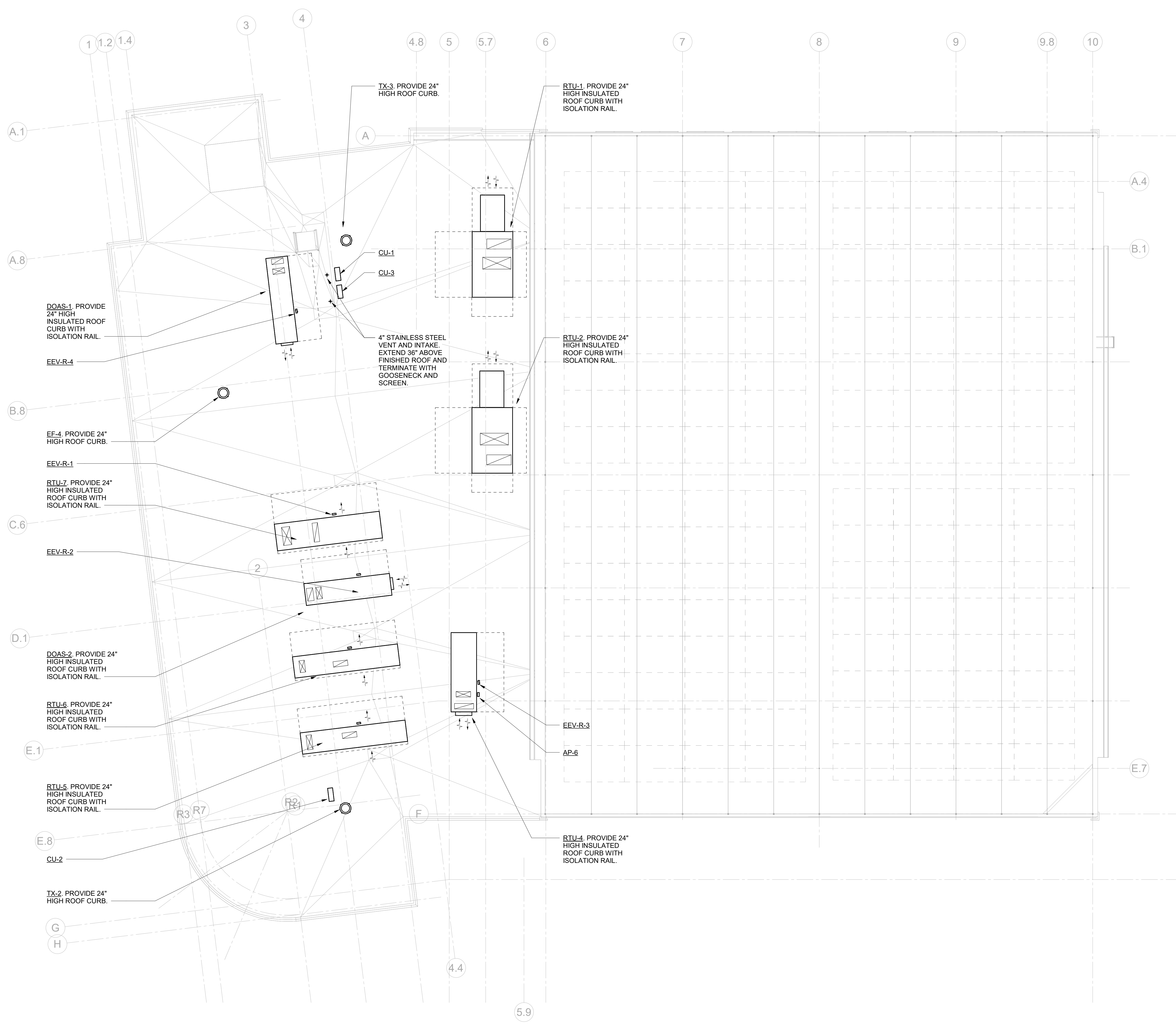
**MECHANICAL
ROOF PLAN**

Job No. NKGD0207.00 Date 02/16/2024

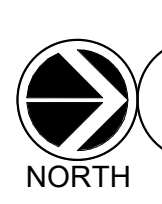
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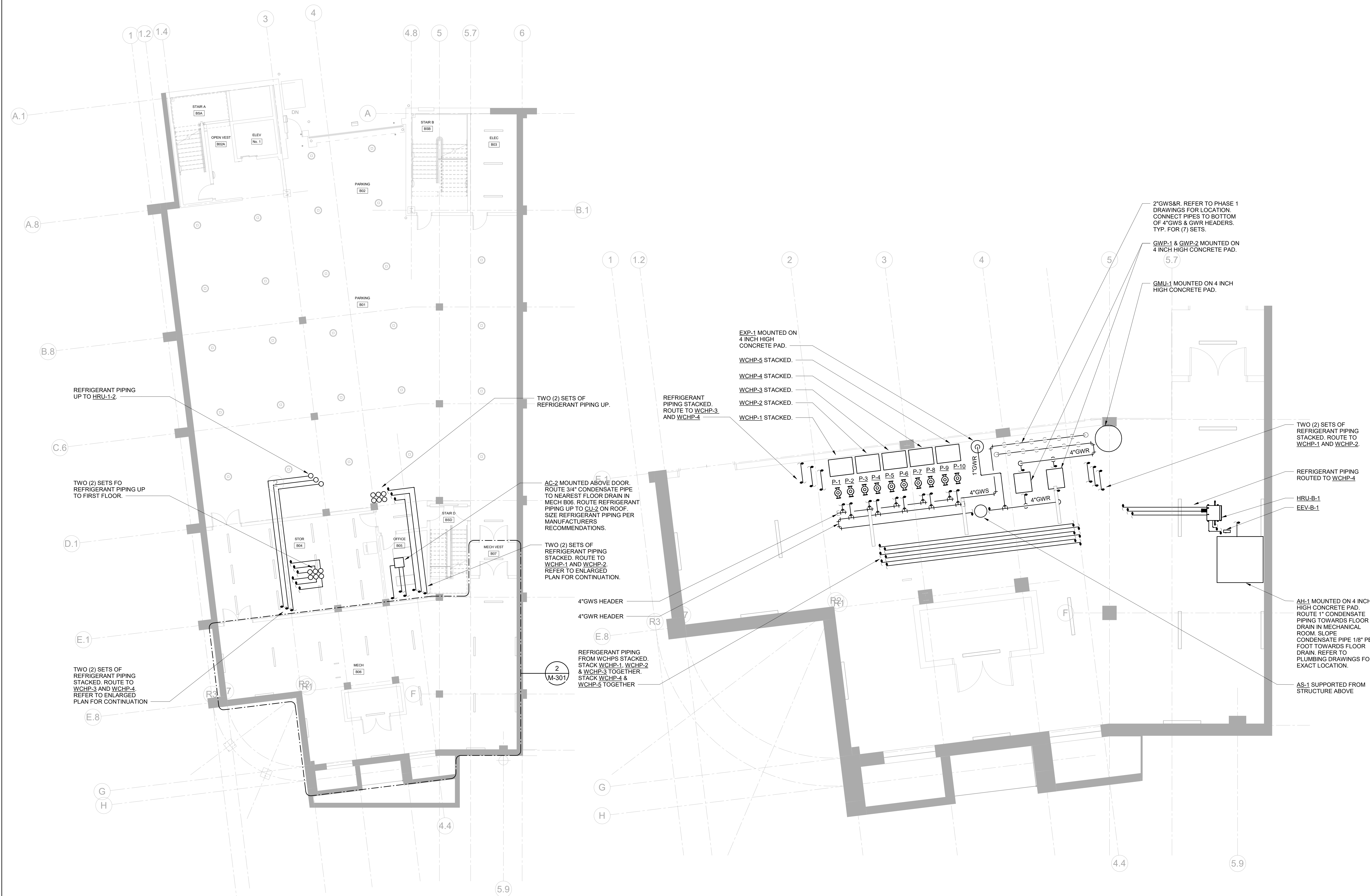
Sheet Number

M-204



MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"





1 MECHANICAL PARKING FLOOR PIPING PLAN
SCALE: 1/8" = 1'-0"
NOTES:
1. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

2 MECH B06 ENLARGED PIPING PLAN
SCALE: 1/4" = 1'-0"
NOTES:
1. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

Key Plan

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7	10/09/2024	CONFORMED SET
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4	06/05/2024	ISSUED FOR BID
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1	03/12/2020	50% DESIGN DEVELOPMENT

Sheet Title	
MECHANICAL PARKING PIPING PLAN	
Job No. NKGD0207.00	Date 02/16/2024
Scale AS NOTED	Drawn / Checked HM / RG
Sheet Number M-301	

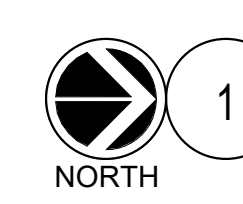
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1	03/12/2020	50% DESIGN DEVELOPMENT

**MECHANICAL
FIRST FLOOR
PIPING PLAN**

Job No.	NKGD0207.00	Date	02/16/2024
Scale	AS NOTED	Drawn / Checked	HM / RG

Sheet Number

M-302

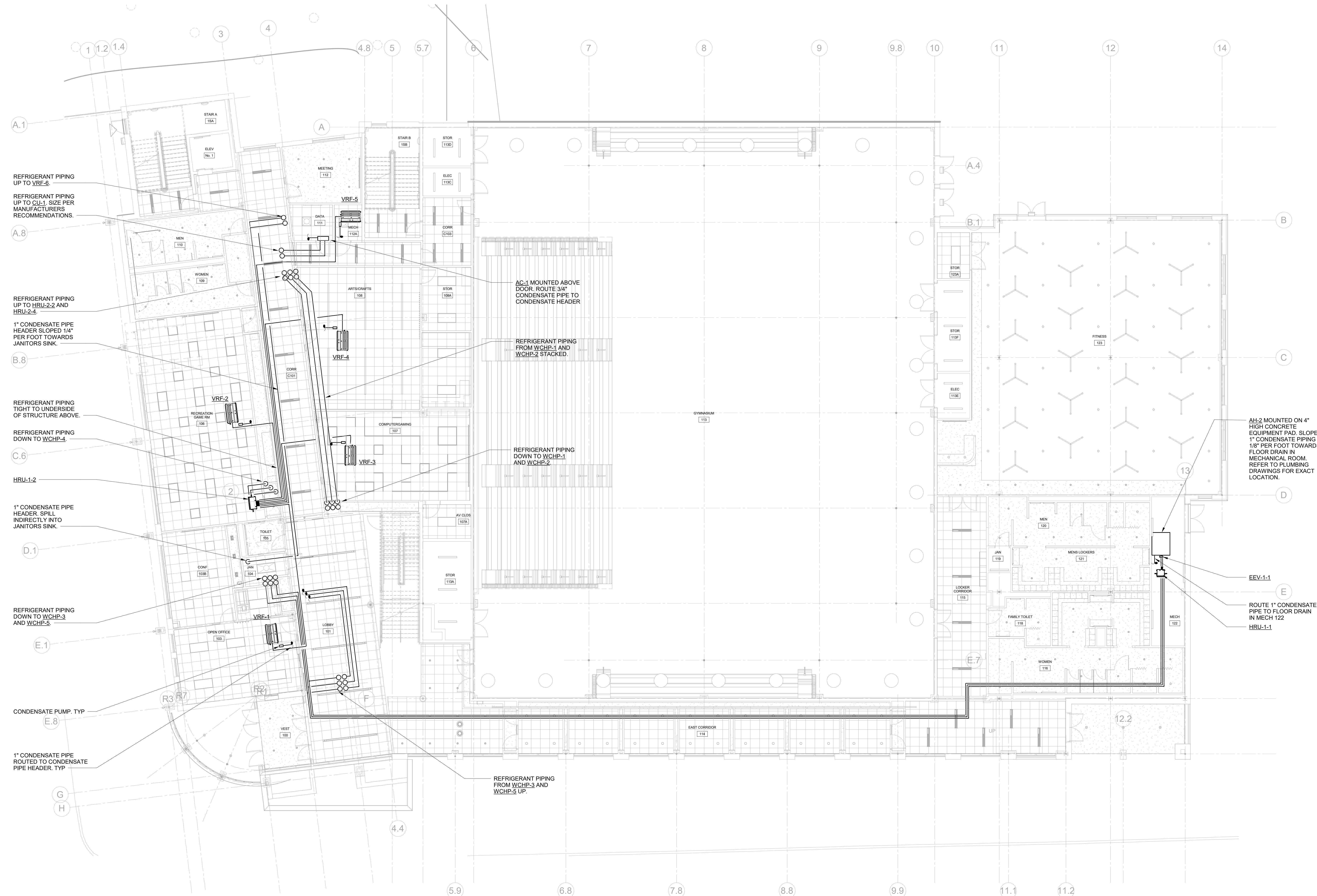


MECHANICAL FIRST FLOOR PIPING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. PROVIDE CONDENSATE PUMP FOR ALL VRF INDOOR DUCTED UNIT. ROUTE 1" CONDENSATE TO CONDENSATE HEADER SHOWN ON PLANS AND PROVIDE WYE FITTING AT CONNECTION POINT.
2. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.



REFRIGERANT PIPING UP TO VRF-6.
REFRIGERANT PIPING UP TO CU-1. SIZE PER MANUFACTURERS RECOMMENDATIONS.

REFRIGERANT PIPING UP TO HRU-2-2 AND HRU-2-4.
1" CONDENSATE PIPE HEADER SLOPED 1/4" PER FOOT TOWARDS JANITORS SINK.

REFRIGERANT PIPING TIGHT TO UNDERSIDE OF STRUCTURE ABOVE.
REFRIGERANT PIPING DOWN TO WCHP-4.

HRU-1-2
1" CONDENSATE PIPE HEADER. SPILL INDIRECTLY INTO JANITORS SINK.

REFRIGERANT PIPING DOWN TO WCHP-3 AND WCHP-5.

CONDENSATE PUMP, TYP
1" CONDENSATE PIPE ROUTED TO CONDENSATE PIPE HEADER, TYP

AC-1 MOUNTED ABOVE DOOR. ROUTE 3/4" CONDENSATE PIPE TO CONDENSATE HEADER

REFRIGERANT PIPING FROM WCHP-1 AND WCHP-2 STACKED.

REFRIGERANT PIPING DOWN TO WCHP-1 AND WCHP-2.

AH-2 MOUNTED ON 4" HIGH CONCRETE EQUIPMENT PAD. SLOPE 1" CONDENSATE PIPING 1/8" PER FOOT TOWARDS FLOOR DRAIN IN MECHANICAL ROOM. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

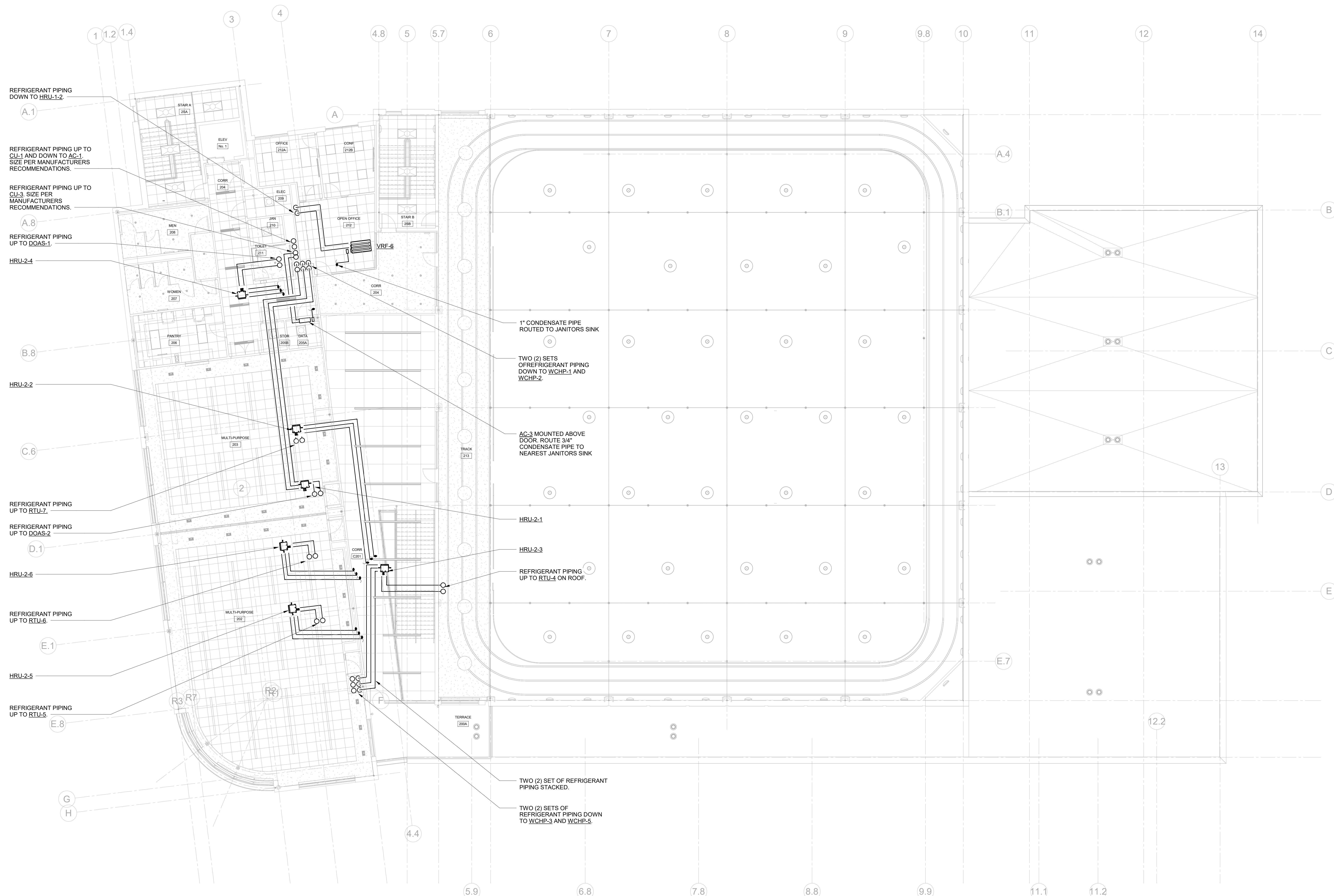
EEV-1-1
ROUTE 1" CONDENSATE PIPE TO FLOOR DRAIN IN MECH 122
HRU-1-1

REFRIGERANT PIPING FROM WCHP-3 AND WCHP-5 UP.

No.	Date	Issue
7	10/09/2024	CONFORMED SET
5	07/01/2024	BID ADDENDUM #2
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	09/01/2023	DESIGN DEVELOPMENT
1	03/12/2020	50% DESIGN DEVELOPMENT

**MECHANICAL
SECOND FLOOR
PIPING PLAN**

Job No.	NKGD0207.00	Date	02/16/2024
Scale	AS NOTED	Drawn / Checked	HM / RG
Sheet Number	M-303		



MECHANICAL SECOND FLOOR PIPING PLAN

- SCALE: 1/8" = 1'-0"
- NOTES:
1. PROVIDE CONDENSATE PUMP FOR ALL VRF INDOOR DUCTED UNIT. ROUTE 1" CONDENSATE TO CONDENSATE HEADER SHOWN ON PLANS AND PROVIDE WYE FITTING AT CONNECTION POINT.
 2. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
 3. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D listen
imagine
build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 501
New York, NY 10018
646.849.4110
olace.com

CONSTRUCTION DOCUMENTS

Key Plan

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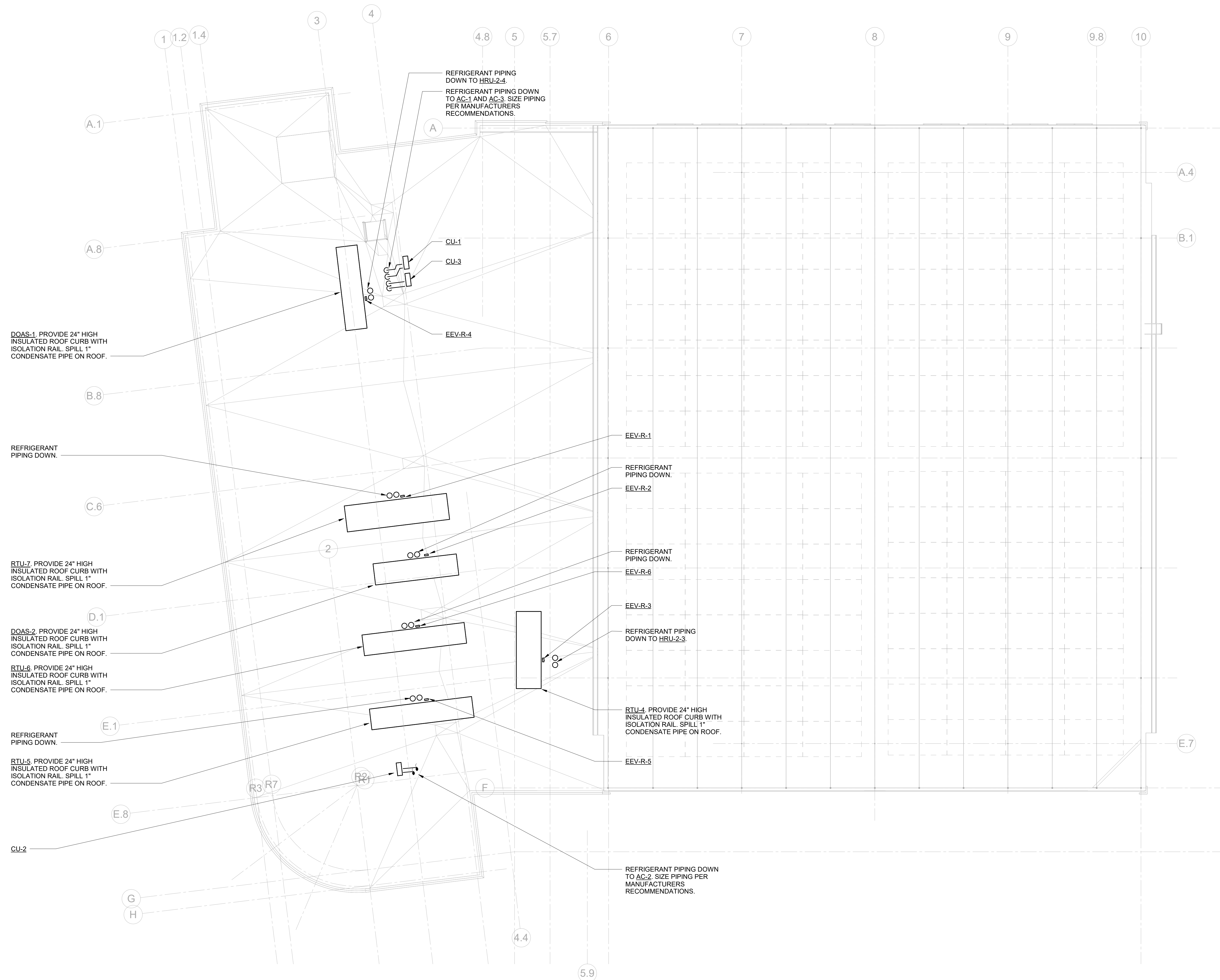
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No.	Date	Issue
7	10/09/2024	CONFORMED SET
5	07/01/2024	BID ADDENDUM #2
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	09/01/2023	DESIGN DEVELOPMENT
1	03/13/2020	50% DESIGN DEVELOPMENT

Sheet Title

**MECHANICAL
ROOF PIPING
PLAN**

Job No.	NKGD0207.00	Date	02/16/2024
Scale	AS NOTED	Drawn / Checked	HM / RG
Sheet Number	M-304		



MECHANICAL ROOF PIPING PLAN
SCALE: 1/8" = 1'-0"

- NOTES:
- REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
 - PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

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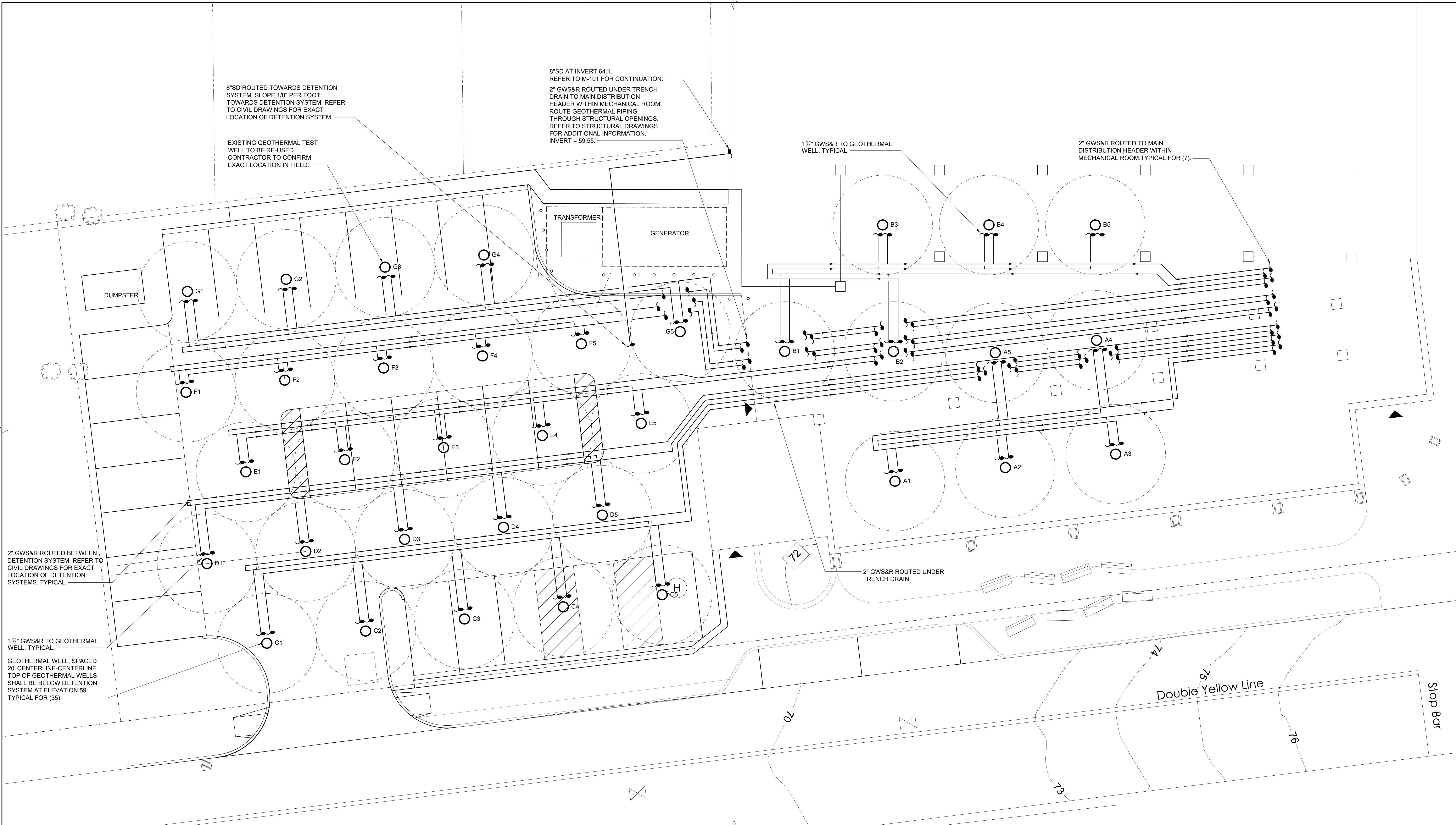
Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D listen
imagine
build
ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGARCHITECTS.COM

OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 501
New York, NY 10018
646.849.4110
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CONSTRUCTION DOCUMENTS



8"SD Routed TOWARDS DETENTION SYSTEM. SLOPE 1/8" PER FOOT TOWARDS DETENTION SYSTEM. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF DETENTION SYSTEM.

EXISTING GEOTHERMAL TEST WELL TO BE RE-USED. CONTRACTOR TO CONFIRM EXACT LOCATION IN FIELD.

8"SD AT INVERT 64.1. REFER TO M-101 FOR CONTINUATION.
2" GWS&R Routed UNDER TRENCH DRAIN TO MAIN DISTRIBUTION HEADER WITHIN MECHANICAL ROOM. ROUTE GEOTHERMAL PIPING THROUGH STRUCTURAL OPENINGS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. INVERT = 59.55.

1 1/2" GWS&R TO GEOTHERMAL WELL. TYPICAL.

2" GWS&R Routed TO MAIN DISTRIBUTION HEADER WITHIN MECHANICAL ROOM. TYPICAL FOR (7).

2" GWS&R Routed BETWEEN DETENTION SYSTEM. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF DETENTION SYSTEMS. TYPICAL.

1 1/2" GWS&R TO GEOTHERMAL WELL. TYPICAL.

GEOTHERMAL WELL, SPACED 20' CENTERLINE-CENTERLINE. TOP OF GEOTHERMAL WELLS SHALL BE BELOW DETENTION SYSTEM AT ELEVATION 59. TYPICAL FOR (35)

2" GWS&R Routed UNDER TRENCH DRAIN.

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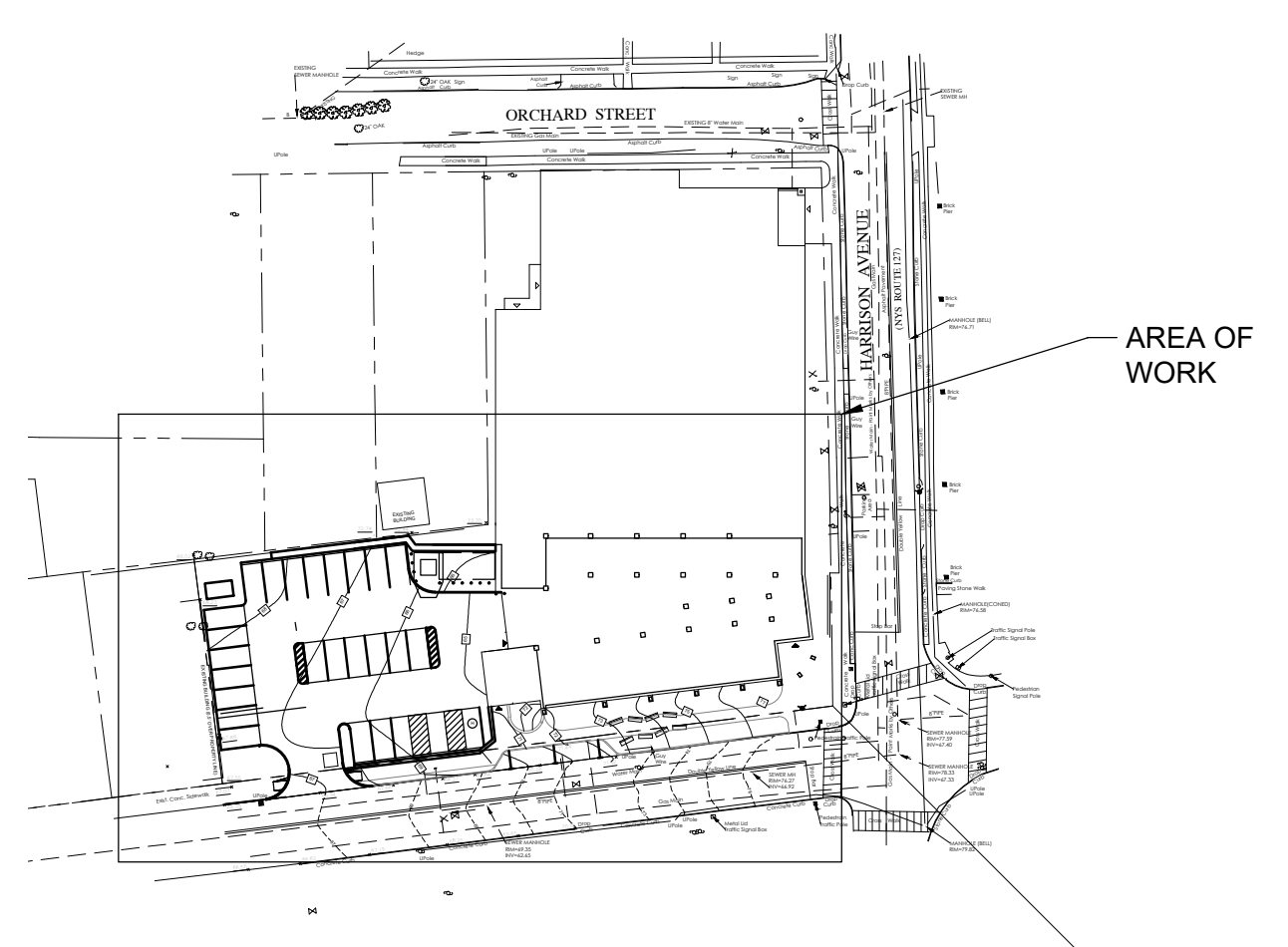
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2 MECHANICAL SITE PLAN
SCALE: 1/8" = 1'-0"
NORTH

NOTES:
1.) ALL GEOTHERMAL PIPING SHALL BE ROUTED BETWEEN DETENTION SYSTEM.
2.) ALL GEOTHERMAL WELLS SHALL BE UNDERNEATH DETENTION SYSTEM. TOP OF ALL GEOTHERMAL WELLS SHALL BE AT ELEVATION 59.
3.) DRAWING FOR REFERENCE ONLY AS PART OF PHASE 1.



1 KEY PLAN
SCALE: NONE
NORTH

Professional Seal

7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. _____ Date _____ Issue _____

Sheet Title

MECHANICAL SITE PLAN

Job No.	NKGD0207.00	Date	03/01/2024
Scale	AS NOTED	Drawn / Checked	HM / RG
Sheet Number	M-401		

RETURN REGISTER / TRANSFER GRILLE SCHEDULE			
DESIGNATION	RG-1 / TG-1 / EG-1	RG-2	
MODEL	3 FS	56 FL	
MAX NK VEL (FT/MIN)	500	-	
MAX NC	25	-	
CONSTRUCTION	ALUMINUM	ALUMINUM	
BORDER/FRAME	SURFACE MOUNTED	SURFACE MOUNTED	
DEFLECTION	45° FIXED	0° FIXED	
SPACING	3/4"	3/4"	
	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE
	0-150	8x8	0 - 10,500
	151-250	10x10	
	251-350	12x12	
	351-725	18x18	
	726-950	22x22	
	951-1100	24x24	
	1101-1400	24x30	

NOTES:
1. RETURN REGISTERS ARE BASED ON TITUS.
2. THE ABOVE SCHEDULE INDICATES NOMINAL REGISTER NECK SIZES. THE CONTRACTOR SHALL COORDINATE THE REGISTER SIZE IN THE FIELD ACCORDING TO THE ACTUAL DUCT DIMENSIONS AND MAINTAIN AN EQUIVALENT CORE AREA.
3. ALL REGISTERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
4. SUBMIT COLOR CHART FOR REVIEW AND APPROVAL BY ARCHITECT.
5. RETURN REGISTERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.

SUPPLY REGISTER SCHEDULE				
DESIGNATION	SR-1	SR-2	SR-3	
MODEL	300RL	S300FS	DL	
MAX NK VEL (FT/MIN)	550	550	550	
MAX NC	25	25	25	
CONSTRUCTION	ALUMINUM	ALUMINUM	ALUMINUM	
BORDER/FRAME	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	
DEFLECTION	DOUBLE	DOUBLE 22.5°	-	
SPACING	3/4"	3/4"	-	
	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE	NOMINAL NECK SIZE
	0-200	8x8	0-170	14x6
	201-300	10x10		
	301-500	12x12		
	501-850	16x16		
	851-1100	18x18		
	1101-1700	22x22		
	1701-2000	24x24		

NOTES:
1. SUPPLY REGISTERS BASED ON TITUS.
2. THE ABOVE SCHEDULE INDICATES NOMINAL REGISTER NECK SIZES. THE CONTRACTOR SHALL COORDINATE THE REGISTER SIZE IN THE FIELD ACCORDING TO THE ACTUAL DUCT DIMENSIONS AND MAINTAIN EQUIVALENT CORE AREA.
3. ALL REGISTERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
4. SUBMIT COLOR CHART FOR REVIEW AND APPROVAL BY ARCHITECT.
5. SUPPLY REGISTERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.
6. SR-2 AND SR-3 SHALL BE PROVIDED WITH AIR SCOOP DEVICE.

CEILING DIFFUSER SCHEDULE	
DESIGNATION	CD-1
MODEL	OMNI
MAX CORE VEL (FT/MIN)	550
MAX NC	25
CONSTRUCTION	STEEL
FRAME	LAY-IN
DEFLECTION	4 WAY
FACE SIZE	24x24
	CFM RANGE
	0-100
	101-200
	201-350
	351-450
	451-600
	601-700

NOTES:
1. CEILING SUPPLY DIFFUSERS ARE BASED ON TITUS.
2. ALL DIFFUSERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
3. COORDINATE COLOR SELECTION WITH ARCH PLANS.
4. SUPPLY DIFFUSERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.
5. ALL LAY-IN DIFFUSERS SHALL HAVE A MODULE SIZE OF 24x24. FACE SIZES SHOWN IN SCHEDULE ARE FOR SURFACE MOUNT DIFFUSERS. NECK SIZES VARY ACCORDING TO THE SCHEDULE.
6. DIFFUSER BLOW PATTERN IS AS SHOWN ON DRAWINGS.

DUCTLESS SPLIT-SYSTEM AC UNIT SCHEDULE			
INDOOR/OUTDOOR UNIT DESIGNATION	AC-1 / CU-1	AC-2 / CU-2	AC-3 / CU-3
MANUFACTURER	LG	LG	LG
NOMINAL COOLING CAPACITY (TONS)	1	1	1
NOMINAL COOLING CAPACITY (MBH)	12,000	12,000	11,100
NOMINAL HEATING CAPACITY AT 47°F (MBH)	12,000	12,000	14,000
NOMINAL HEATING CAPACITY AT 19°F (MBH)	9,640	9,640	11,900
CFM (LO-MID-HI)	148 / 264 / 353	148 / 264 / 353	247 / 283 / 335
SEER/EER	17 / 10.5	17 / 10.5	19.4
RS PIPE SIZE (IN)	3/8	3/8	3/8
RL PIPE SIZE (IN)	1/4	1/4	1/4
CONDENSATE DRAIN PIPE SIZE (IN)	5/8	5/8	5/8
ELECTRICAL DATA:			
VOLTS/Ø/Hz	208/1/60	208/1/60	208/1/60
BREAKER SIZE (AMPS) AT OUTDOOR UNIT	10 / 15	10 / 15	12.3 / 15
INDOOR EVAPORATOR UNIT DATA			
LOCATION	DATA 111	DATA 205A	OFFICE B05
MODEL	LSN120HFV3	LSN120HFV3	LCN128HV4
HEIGHT x WIDTH x DEPTH (IN)	12.2 x 33 x 7.5	12.2 x 33 x 7.5	8.1 x 22.5 x 22.5
WEIGHT (LBS)	19.2	19.2	31
TYPE	WALL MOUNTED	WALL MOUNTED	CEILING CASSETTE
OUTDOOR CONDENSING UNIT DATA:			
LOCATION	ROOF	ROOF	ROOF
MODEL	LSU120HFV3	LSU120HFV3	LUU120HV
HEIGHT x WIDTH x DEPTH (IN)	19.5 x 28.3 x 10.7	19.5 x 28.3 x 10.7	21.5 x 30.4 x 11.4
WEIGHT (LBS)	55.3	55.3	71
REFRIGERANT TYPE	R-410A	R-410A	R-410A

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS FOR EACH UNIT:
· 0° LOW AMBIENT CONTROLS
· HARD WIRED REMOTE CONTROLLER
· WIND BAFFLE
2. FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT INDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. FIELD SUPPLIED WEATHERPROOF LOCAL DISCONNECT SWITCH AT OUTDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. SINGLE POINT EXTERNAL POWER CONNECTION FOR EACH INDOOR/OUTDOOR SET OF UNITS SHALL BE AT THE OUTDOOR UNIT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING FROM THE OUTDOOR UNIT TO THE INDOOR UNIT.
5. THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL WIRING BETWEEN THE OUTDOOR UNIT AND INDOOR UNIT.
6. PROVIDE ALL REQUIRED MOUNTING BRACKETS, SUPPORTS, HANGERS, PADS, ETC. FOR INSTALLATION.
7. PROVIDE ACCESSORIES AS REQUIRED BY MANUFACTURER, WHICH MAY INCLUDE: LIQUID LINE SOLENOID, RELAYS, FILTERS, ETC.

- ### EQUIPMENT NOTES
- FIRE DAMPERS:** SHALL BE RUSKIN MODEL DIBD-2, 1-1/2 HOUR UL555 RATED, SUITABLE FOR INSTALLATION IN WALL AND FLOOR PARTITIONS WITH FIRE RATINGS OF LESS THAN 3 HOURS. DAMPER SHALL BE A COMPLETE FACTORY PACKAGE INCLUDING UL APPROVED ANGLES, WALL SLEEVE, AND BREAKAWAY CONNECTIONS. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000 FPM AND 4.0" SP.
 - VOLUME CONTROL DAMPERS:** FOR ALL ROUND & RECTANGULAR VOLUME CONTROL DAMPERS THAT ARE LOCATED ABOVE INACCESSIBLE CEILINGS, PROVIDE CABLE OPERATED DAMPERS. ROUND DAMPERS SHALL BE YOUNG BOWDEN MODEL 5029-CC. RECTANGULAR DAMPERS SHALL BE MODEL 830-CC. CABLE CONTROLS SHALL BE MODEL 270-275 FOR CONCEALED LOCATIONS & MODEL 270-896C FOR LOCATIONS WHERE CABLES TERMINATE IN FINISHED SPACES. COORDINATE LOCATIONS IN THE FIELD.
 - MOTORIZED DAMPERS:** SHALL BE LOW LEAKAGE TYPE RUSKIN MODEL CD40, 4" DEEP EXTRUDED ALUMINUM AIRFLOW DAMPER. DAMPER SHALL HAVE OPPOSED BLADES, MOTOR AND LINKAGE. DAMPERS SHALL BE LOW-LEAKAGE RATED TYPE. DAMPERS SHALL BE 120V/1Ø/60Hz, 3 AMPS MAX. FURNISH DISCONNECT SWITCH.
 - OUTSIDE AIR INTAKE & EXHAUST DAMPERS SHALL BE CLASS I MOTORIZED DAMPERS WITH MAXIMUM LEAKAGE RATE OF 4 CFM/SQFT @ 1.0" W.G. TESTED IN ACCORDANCE WITH AMCA 500D. DAMPERS SHALL BE CONFIGURED TO CLOSE AUTOMATICALLY WHEN THE SYSTEMS OF THE SPACE SERVED ARE NOT IN USE.
 - CONDENSATE PUMP:** SHALL BE LITTLE GIANT VCCA-20-P. PUMP SHALL BE HARD WIRED, PLENUM RATED AND SHALL BE ABLE TO PUMP 45 GPH AT 10 FEET OF HEAD. CONDENSATE PUMP SHALL BE 115/160, 1.5 AMPS.
 - FURNISH ALL REQUIRED PIPE AND ENCLOSURE SUPPORTS, BRACKETS, AND FASTENERS ETC.** FURNISH VALVE ACCESS DOORS AND KNOCK OUT FOR ELECTRICAL RECEPTACLES. FURNISH END CAPS AND CORNER ANGLES, RUN ENCLOSURES CONTINUOUS WALL TO WALL. FINISH SHALL BE BAKED ON ENAMEL, SUBMIT COLOR CHART FOR REVIEW AND APPROVAL.
 - EXPANSION TANK EXP-1:** TO BE AMTROL MODEL AX-40V, 21.7 GALLON TANK AND 11.3 GALLON ACCEPTANCE VOLUME, 30" HIGH, 16" DIAMETER AND HAVE A SHIPPING WEIGHT OF APPROXIMATELY 99 POUNDS.
 - AIR SEPARATOR AS-1:** SHALL BE BELL & GOSSETT MODEL R-4F, 300 GPM MAXIMUM CAPACITY, 4" FLANGED INLET AND OUTLET, REMOVABLE GALVANIZED STEEL SYSTEM STRAINER, INTERNAL STAINLESS STEEL AIR COLLECTOR TUBE WITH NPT CONNECTION AND BLOWDOWN CONNECTION. THE AIR SEPARATOR MUST BE DESIGNED, CONSTRUCTED, AND STAMPED FOR 125 PSIG @ 350°F IN ACCORDANCE WITH SECTION VIII, DIVISION I OF THE ASME BOILER AND PRESSURE VESSEL CODE, AND REGISTERED WITH THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS. THE AIR SEPARATOR SHALL BE PAINTED WITH ONE SHOP COAT OF LIGHT GRAY AIR DRY ENAMEL.
 - GLYCOL MIXING TANK:** GMU-1, SHALL BE WESSELS COMPANY MODEL GMPD-13050 WITH INDUSTRIAL GRADE GRADUATED POLYETHYLENE 50 GALLON TANK, OBSERVABLE FLUID LEVEL SCALE, & REMOVABLE LID. EQUIPPED WITH ONE (1) AUTOMATIC PUMPING ASSEMBLIES, RATED AT 1.8 GPM @ 70 PSI, 1/3 HP, FITTED WITH H-O-A CONTROLS, ADJUSTABLE PRV, PRESSURE GAUGE, HIGH LEVEL ALARM AND LOW LEVEL ALARM WITH AUDIBLE AND VISUAL ALARMS. FURNISH DISCONNECT SWITCH FOR GMU PUMP FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR. ELECTRICAL: 120V/1Ø. PROVIDE BMS PROTOCOL FOR CONNECTION/MONITORING TO BMS.
 - PROPYLENE GLYCOL:** SHALL BE BASED ON DOW DOWFROST HD INHIBITED PROPYLENE GLYCOL-BASED HEAT TRANSFER FLUID. THE MECHANICAL CONTRACTOR SHALL PROVIDE PROPYLENE GLYCOL FOR DUAL TEMPERATURE WATER SYSTEM AS NOTED ON PLANS (20% CONCENTRATION).
 - PIPE INSULATION JACKETING:** SHALL BE WHITE ZESTON 2000 PVC COVERS FOR PIPING AND FITTINGS. JACKET ALL PIPING AND FITTING THAT ARE EXPOSED IN ANY ROOM.
 - PIPE LABELS:** SHALL BE SETON ULTRA-MARK WEATHER RESISTANT FOR OUTDOOR APPLICATION AND OPTI-CODE FOR INDOOR APPLICATION. LETTERS AND ARROWS SHALL BE 2 1/2" HIGH AND SHALL BE WHITE ON A GREEN BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. APPLY OVER INSULATION ONLY.
 - ALL HVAC EQUIPMENT SHALL HAVE 3" HIGH BLACK LAMACOID NAME PLATES WITH WHITE ENGRAVED LETTERS PERMANENTLY FASTENED TO EQUIPMENT.** TYPICAL FOR AII BOILERS, PUMPS, AIR HANDLERS, AC UNITS AND CONDENSERS.
 - REFRIGERANT PIPE INSULATION:** SHALL BE AP ARMAFLEX PIPE INSULATION, 1" THICK UNSLIT, TO BE INSTALLED BEFORE FINAL CONNECTION. FIELD FABRICATE FITTING INSULATION WITH MITER-CUTS. ALL BUTT JOINTS AND SEAMS ARE TO BE SEALED WITH ARMSTRONG 520 ADHESIVE. ALL INSULATION INSTALLED OUTDOORS SHALL BE COATED WITH UV RESISTANT COATING/FINISH, AS PER THE MANUFACTURERS RECOMMENDATIONS.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



KG+D ARCHITECTS, PC
285 MAIN STREET - MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

OLA Consulting Engineers
50 Broadway,
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CONSTRUCTION DOCUMENTS

VARIABLE REFRIGERANT FLOW - WATER COOLED CONDENSING UNIT SCHEDULE					
DESIGNATION	WCHP-1	WCHP-2	WCHP-3	WCHP-4	WCHP-5
DESCRIPTION	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
RATED COOLING CAPACITY					
BTUH/HR	168,000	168,000	239,000	264,000	264,000
EWT (°F)	85	85	85	85	85
LWT (°F)	94.2	94.2	94.8	95.1	94
GPM	45.7	45.7	60.8	65.9	65.9
RATED HEATING CAPACITY					
BTUH/HR	189,000	189,000	269,000	297,000	297,000
EWT (°F)	45	45	45	45	45
LWT (°F)	38.3	38.3	37.7	36.4	37.9
GPM	45.7	45.7	60.8	65.9	65.9
REFRIGERANT CHARGE					
TOTAL CHARGE (LBS)	30.6	30.6	40.8	47.6	42.9
FACTORY CHARGE (LBS)	15.4	15.4	15.4	15.4	15.4
ADDITIONAL REFRIGERANT (LBS)	15.2	15.2	25.4	32.2	27.5
ELECTRICAL DATA:					
VOLTS / Ø / Hz	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
MCA (MODULE 1 / MODULE 2)	13.8/19.4	13.8/19.4	27.7/27.7	27.7/32.7	27.7/32.7
MOCP (MODULE 1 / MODULE 2)	20/30	20/30	45/45	45/50	45/50
PHYSICAL:					
TONS	14	14	20	22	22
WEIGHT (LBS) (MODULE 1 / MODULE 2)	322/322	322/322	322/322	322/322	322/322
DIMENSIONS (WxHxD) (IN) (MODULE 1 / MODULE 2)	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5
PERFORMANCE:					
COOLING (BTUH/W)	15.6	15.6	15.6	16	15.4
HEATING (BTUH/W)	15.3	15.3	15.5	16.3	14.2
BASIS OF DESIGN	ARWM168BA55	ARWM168BA55	ARWM240BAS5	ARWM264BA55	ARWM264BA55

NOTES:
1. UNITS BASED ON LG.
2. PROVIDE RUBBER VIBRATION ISOLATION FOR EACH UNIT.
3. WARRANTY SHALL BE 10 YEARS PARTS AND 10 YEARS ON THE COMPRESSORS
4. CONTRACTOR SHALL HIRE THE MANUFACTURERS INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.
5. PROVIDE ALL UNITS WITH RATED DISCONNECT SWITCH.

LINEAR DIFFUSER SCHEDULE			
DESIGNATION	LD-1	LD-2	LD-3
MODEL	FL-15	FL-20	FL-20
MAX NC	25	25	25
CONSTRUCTION	ALUMINUM	ALUMINUM	ALUMINUM
FRAME	LAY-IN	LAY-IN	LAY-IN
NUMBER OF SLOTS	1	1	1
SLOT WIDTH (IN)	1.5	2	2
LENGTH	48"	48"	24"
	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE
	0 - 140	6"	0 - 200
	141 - 170	8"	201 - 230
		NOMINAL NECK SIZE	CFM RANGE
		8"	0 - 110
			8"

NOTES:
1. CEILING LINEAR SUPPLY DIFFUSERS ARE BASED ON TITUS.
2. COORDINATE COLOR SELECTION WITH ARCHITECTURAL PLANS.
3. SUPPLY DIFFUSERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.
4. DIFFUSER BLOW PATTERN IS AS SHOWN ON DRAWINGS. PROVIDE PATTERN CONTROLLER.
5. DIFFUSERS SHALL BE INSTALLED WITH FACTORY-BUILT SUPPLY PLENUMS WITH MANUFACTURERS INTERNAL SOUND LINING. FIELD INSULATED PLENUMS SHALL BE BASED ON TITUS FBPI.
6. COORDINATE DIFFUSER INSTALLATION WITH REFLECTED CEILING PLANS AND ALL OTHER TRADES.
7. INACTIVE DIFFUSER SECTIONS SHALL BE OPEN TO CEILING PLENUM AND PROVIDED WITH FACTORY LIGHT SHIELD.
8. PROVIDE CONCEALED CABLE OPERATED BALANCING DAMPERS THROUGH SLOT OPENINGS FOR ALL LINEAR DIFFUSERS WITH INACCESSIBLE VOLUME DAMPERS.

ELECTRONIC EXPANSION VALVE KIT		
DESIGNATION	EEV-R-5, EEV-R-6	EEV-B-1, EEV-1-1, EEV-R-1, EEV-R-2, EEV-R-3, EEV-R-4
QUANTITY	2	6
MAX AH CAPACITY (MBH)	96	192
WEIGHT (LBS)	6.8	6.8
DIMENSIONS (WxHxD)	8.75 x 16 x 3.5	8.75 x 16 x 3.5
ELECTRICAL DATA:		
VOLTS / Ø / Hz	208/1/60	208/1/60
AMPS	0.1	0.1
BASIS OF DESIGN	PRLK048A0	PRLK096A0

NOTES:
1. UNITS BASED ON LG.
2. CONTRACTOR TO MAINTAIN A MAXIMUM DISTANCE OF 10 FEET BETWEEN EEV AND COMM KIT.
3. REFRIGERANT TYPE IS R410A

VARIABLE REFRIGERANT FLOW - ZONE HEAT RECOVERY UNIT SCHEDULE				
DESIGNATION	HRU-2-1, HRU-2-2, HRU-2-4	HRU-8-1, HRU-1-1, HRU-2-3, HRU-2-5, HRU-2-6	HRU-1-2	
NUMBER OF PORTS	3	2	6	
QUANTITY	3	3	1	
CAPACITY PER BRANCH (MBH)	60	60	60	
WEIGHT (LBS)	37	33	60	
DIMENSIONS (WxHxD) (IN)	19.25 x 8.75 x 19	19.25 x 8.75 x 19	31.25 x 8.75 x 19	
ELECTRICAL DATA:				
VOLTS / Ø / Hz	208/1/60	208/1/60	208/1/60	
MCA	0.17	0.17	0.27	
MOCP	15	15	15	
BASIS OF DESIGN	PRHR033A	PRHR023A	PRHR063A	

NOTES:
1. UNITS BASED ON LG.
2. PROVIDE DISCONNECT SWITCH.
3. INDIVIDUAL CONTROL AND CHANGEOVER FOR ONE GROUP OF INDOOR UNITS.
4. MAINTAIN REQUIRED CLEARANCES FOR UNIT.

VARIABLE REFRIGERANT FLOW - INDOOR UNITS SCHEDULE						
DESIGNATION	VRF-1	VRF-2	VRF-3	VRF-4	VRF-5	VRF-6
TONNAGE	4	4	3.5	3	2.5	2
TYPE	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED
QUANTITY	1	1	1	1	1	1
SUPPLY FAN AIRFLOW	1,191	1,191	1,076	845	676	710
ESP (IN WC)	0.6	0.6	0.6	0.6	0.6	0.6
COOLING PERFORMANCE						
TOTAL (BTUH)	34.6	31.8	30.5	24.7	18.2	21
SENSIBLE (BTUH)	25.9	25.9	23.6	19.5	14.6	15
EAT (DB / WB)	74.8 / 62.7	72.7 / 61	73.6 / 61.7	73 / 61.2	72.3 / 60.6	74.8 / 62.7
LAT (DB)	55.6	53.5	54.3	52.6	53.2	56
HEATING PERFORMANCE						
TOTAL CAPACITY (BTUH)	45.8	45.8	42	34.8	26.5	28.3
EAT (DB)	68	68	68	68	68	68
LAT (DB)	102.4	102.4	103	104.9	103.1	103.7
ELECTRICAL DATA:						
VOLTS / Ø / Hz	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
MCA	3.1	3.1	2.9	2.9	2.9	1.2
MOCP	15	15	15	15	15	15
WEIGHT (LBS)	96.1	96.1	86.2	86.2	86.2	60
DIMENSIONS (WxHxD) (IN)	49.5x14.5x27.5	49.5x14.5x27.5	49.5x10.5x27.5	49.5x10.5x27.5	49.5x10.5x27.5	49.5x7.5x27.5
MODEL	ARNU483M3A4	ARNU483M3A4	ARNU423M2A4	ARNU363M2A4	ARNU283M2A4	ARNU243L3G

100% ENERGY RECOVERY OUTDOOR AIR HANDLER		
DESIGNATION	DOAS-1	DOAS-2
LOCATION	ROOF	ROOF
AREA SERVED	SEE PLANS	SEE PLANS
MANUFACTURER	VTS AMERICA INC.	VTS AMERICA INC.
MODEL	AVS020-R-FRMCHVE	AVS020-R-FRMCHVE
WEIGHT OF UNIT (LBS)	1,770	1,770
DIMENSION (WxHxD) (IN)	47 x 54 x 189	47 x 54 x 189
OUTSIDE AIR (CFM)	2,000	2,010
SUPPLY FAN:		
CFM	2,000	2,010
ESP/TSP (IN H ₂ O)	1.0	1.0
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM
MOTOR HP	2	2
CONTROL	VFD	VFD
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	8.3 / 15	8.3 / 15
EXHAUST FAN:		
CFM	2,000	2,010
ESP/TSP (IN H ₂ O)	1.0	1.0
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM
MOTOR HP	1.5	1.5
CONTROL	VFD	VFD
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	5.6 / 15	5.6 / 15
COOLING PERFORMANCE:		
E.A.T (DB / WB)	80.2 / 65.8	80.2 / 65.8
L.A.T (DB / WB)	52.8 / 51.9	52.8 / 52.8
GROSS TOTAL CAPACITY (MBH)	82.4	175.6
GROSS SENSIBLE CAPACITY (MBH)	60.2	94.3
REHEAT CAPACITY (MBH)	48.6	48.9
REHEAT (DB / WB)	75 / 60.7	75.0 / 60.7
HEATING PERFORMANCE: HEAT PUMP		
E.A.T. / L.A.T. (DB)	54.2 / 70	54.1 / 70.0
HEATING CAPACITY (MBH)	34.7	35
HEAT ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)		
WINTER RETURN (EXHAUST AIR STREAM)	68 / 68	68 / 68
WINTER EXHAUST (EXHAUST AIR STREAM)	13.9 / 13.9	13.9 / 13.9
WINTER SUPPLY (SUPPLY AIR STREAM)	54.2 / 54.2	54.1 / 54.1
WINTER OUTDOOR AIR (OUTDOOR AIR STREAM)	0.0 / -1.0	0.0 / -1.0
SUMMER RETURN (EXHAUST AIR STREAM)	77 / 63	77 / 63
SUMMER EXHAUST (EXHAUST AIR STREAM)	91.2 / 75.4	91.2 / 75.4
SUMMER SUPPLY (SUPPLY AIR STREAM)	80.2 / 65.8	80.2 / 65.8
SUMMER OUTDOOR AIR (OUTDOOR AIR STREAM)	95 / 78	95 / 78
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	0.8 / 15.0	0.8 / 15.0
LINES & FILTERS:		
CONDENSATE DRAIN LINE SIZE (IN)	1"	1"
RETURN AIR FILTER TYPE	2" MERV 8	2" MERV 8
NOTES:		
1. PROVIDE THE FOLLOWING OPTIONS:		
• 100% OUTSIDE AIR UNIT		
• DIRTY FILTER SENSOR		
• EXTRA DRIVE BELT AND FILTER SET		
• DISCONNECT SWITCH		
• FREEZE-STAT		
2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS:		
• TRIPLE POINT EXTERNAL POWER CONNECTION AT UNIT.		
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.		
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM		
3. MOTOR STARTER & DISCONNECT SWITCH FOR EACH UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR. EACH UNIT SHALL BE FURNISHED WITH THE UNIT-MOUNTED LOCAL DISCONNECT SWITCH.		
4. UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.		
5. PROVIDE UNIT WITH AIR SIDE ECONOMIZER AND HOT GAS REHEAT.		
6. INTERNAL VFDS SHALL BE RATED FOR TEMPERATURE RANGING FROM 0°F TO 100°F.		

PACKAGED NATURAL GAS FIRED ROOFTOP UNIT SCHEDULE			
DESIGNATION	RTU-1	RTU-2	RTU-3
LOCATION	ROOF	ROOF	ROOF
AREA SERVED	GYM	GYM	FITNESS
MANUFACTURER	TEMPMASTER	TEMPMASTER	TEMPMASTER
MODEL	CV25T3DQ2S1ABN47E3	CV25T3DQ2S1ABN47E3	ZJ120S18R2B5BCE3A3
NOMINAL CAPACITY (TONS)	25	25	10
WEIGHT OF UNIT (LBS)	2,485	2,485	1285
SUPPLY DUCT CONNECTION	BOTTOM	BOTTOM	BOTTOM
RETURN DUCT CONNECTION	BOTTOM	BOTTOM	BOTTOM
OUTSIDE AIR (CFM)	3,450	3,450	960
SUPPLY FAN:			
QUANTITY	1	1	1
TOTAL CFM	10,500	10,500	3,500
CFM FOR EACH FAN	10,500	10,500	3,500
ESP/TSP (IN H ₂ O)	1.5 / -	1.5 / -	1 / -
TYPE	BELT	BELT	BELT
HP FOR EACH FAN	10	10	3
CONTROL	VFD	VFD	VFD
COOLING PERFORMANCE:			
E.A.T (DB / WB)	76.9 / 64	76.9 / 64	76.3 / 63.4
L.A.T (DB / WB)	58.3 / 55.5	58.3 / 55.5	53.6 / 52.5
TOTAL CAPACITY (MBH)	268.1	268.1	110.3
SENSIBLE CAPACITY (MBH)	210.9	210.9	85.9
NUMBER OF COMPRESSORS	2	2	2
NUMBER OF CIRCUITS	2	2	2
NUMBER OF STAGES	4	4	2
REHEAT CAPACITY (MBH)	166.5	166.5	57.3
REHEAT (DB / WB)	72 / 62.4	72 / 62.4	71.8
HEATING PERFORMANCE: NATURAL GAS FURNACE			
E.A.T. / L.A.T. (DB)	62.6 / 91.2	62.6 / 91.2	64.9 / 103.5
HEATING CAPACITY INPUT (MBH)	400	400	180
HEATING CAPACITY OUTPUT (MBH)	324	324	146
INLET PRESSURE (IN WC)	7 - 14	7 - 14	7 - 14
ERV:			
MODEL	CV25T3DQ2S1ABN47E3	CV25T3DQ2S1ABN47E3	ZJ120S18R2B5BCE3A3
WEIGHT OF UNIT (LBS)	1,230	1,230	318
OUTSIDE AIR CFM	3,450	3,450	960
SUMMER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)			
RETURN (EXHAUST AIR STREAM)	75 / 62	75 / 62	75 / 62
EXHAUST (EXHAUST AIR STREAM)	80.4 / 67.61	80.4 / 67.61	79.2 / 66.4
SUPPLY (SUPPLY AIR STREAM)	76.9 / 64	76.9 / 64	76.3 / 63.4
OUTDOOR (OUTDOOR AIR STREAM)	95 / 78	95 / 78	95 / 78
WINTER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)			
RETURN (EXHAUST AIR STREAM)	70	70	70
EXHAUST (EXHAUST AIR STREAM)	49	49	53.9
SUPPLY (SUPPLY AIR STREAM)	62.6	62.6	64.9
OUTDOOR (OUTDOOR AIR STREAM)	0 / 0	0 / 0	0 / 0
LINES & FILTERS:			
CONDENSATE DRAIN LINE SIZE (IN)	1	1	1
RETURN AIR FILTER TYPE	ANGLE FILTER 4" MERV 13	ANGLE FILTER 4" MERV 13	4" PLEATED MERV 13
QUANTITY AND SIZE	(9) 16x25	(9) 16x25	(4) 24x20
EFFICIENCY:			
EER	10	10	12
IEER	14.2	14.2	15
ELECTRICAL DATA - RTU			
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	143.7 / 175	143.7 / 175	44.9 / 50
ELECTRICAL DATA - ERV			
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	23.5 / 25	23.5 / 25	8.3 / 10
NOTES:			
1. PROVIDE RTU-1, RTU-2, RTU-3 WITH DUCT MOUNTED SMOKE DETECTORS.			
2. PROVIDE RTU-1, RTU-2, RTU-3 WITH INSULATED ROOF CURB WITH VIBRATION ISOLATION RAIL. ROOF CURB SHALL BE RETURN PLENUM.			
3. PROVIDE UNITS WITH DISCONNECT SWITCH. ALL OUTDOOR UNITS SHALL BE PROVIDED WITH RATED DISCONNECT SWITCH.			
4. PROVIDE RTU-1, RTU-2, RTU-3 WITH AIRSIDE ECONOMIZER AND POWER EXHAUST.			
5. PROVIDE RTU-1, RTU-2, RTU-3 WITH HOT GAS REHEAT.			
6. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:			
• HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.			
• 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.			
• FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.			
• UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.			
• PROVIDE 4" FIELD INSTALLED FILTER SECTION WITH HINGED ACCESS DOOR AND PROVIDE MERV 10 FILTERS.			
7. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:			
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.			
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.			
• SINGLE POINT EXTERNAL POWER CONNECTION AT BOTH RTU AND/ERV. UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFDS WITH H-O-A.			
8. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.			
9. INTERNAL VFDS SHALL BE RATED FOR TEMPERATURE RANGING FROM 0°F TO 100°F.			

ROOFTOP UNIT SCHEDULE				
DESIGNATION	RTU-4	RTU-5	RTU-6	RTU-7
LOCATION	ROOF	ROOF	ROOF	ROOF
AREA SERVED	2ND FLOOR COMMON AREA	MULTIPURPOSE 202	MULTIPURPOSE 202	MULTIPURPOSE 203
MANUFACTURER	VTS	VTS	VTS	VTS
MODEL	AVS030	AVS020	AVS020	AVS040
NOMINAL CAPACITY (TONS)	-	-	-	-
WEIGHT OF UNIT (LBS)	1,991	1,238	1,238	1,924
SUPPLY DUCT CONNECTION	BOTTOM	BOTTOM	BOTTOM	BOTTOM
RETURN DUCT CONNECTION	BOTTOM	BOTTOM	BOTTOM	BOTTOM
OUTSIDE AIR (CFM)	1,680	0	0	0
SUPPLY FAN:				
QUANTITY	1	1	1	1
TOTAL CFM	2,680	1,800	1,800	2,400
CFM FOR EACH FAN	2,680	1,800	1,800	2,400
ESP/TSP (IN H ₂ O)	1 / 2.8	1 / 2.23	1 / 2.23	1 / 2.05
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM
HP FOR EACH FAN	2	1.5	1.5	3
CONTROL	VFD	VFD	VFD	VFD
RETURN FAN:				
QUANTITY	1	1	1	1
TOTAL CFM	2,680	1,800	1,800	2,400
CFM FOR EACH FAN	2,680	1,800	1,800	2,400
ESP/TSP (IN H ₂ O)	1 / 2.3	1 / 1.73	1 / 1.73	1 / 1.8
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM
HP FOR EACH FAN	2	1.5	1.5	3
CONTROL	VFD	VFD	VFD	VFD
COOLING PERFORMANCE:				
E.A.T (DB / WB)	78.5 / 64.7	72.4 / 60.9	73.7 / 61.9	73.5 / 61.3
L.A.T (DB / WB)	49 / 49	52.2 /	53.1 /	50.9 / 50
TOTAL CAPACITY (MBH)	120.3	57.2	61	75.1
SENSIBLE CAPACITY (MBH)	86.9	41.1	41.7	59.5
REHEAT CAPACITY (MBH)	76.2	44.3	42.6	62.5
REHEAT (DB / WB)	75 / 59.6	75	75	75
HEATING PERFORMANCE:				
E.A.T. / L.A.T. (DB)	61.6 / 80	68 / 80	68 / 80	68 / 80
HEATING CAPACITY OUTPUT (MBH)	54.5	23.9	23.9	31.8
SUMMER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)				
RETURN (EXHAUST AIR STREAM)	77 / 63.5			
EXHAUST (EXHAUST AIR STREAM)	92 / 76.1	N/A	N/A	N/A
SUPPLY (SUPPLY AIR STREAM)	79.4 / 65.5			
OUTDOOR (OUTDOOR AIR STREAM)	95 / 78			
WINTER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)				
RETURN (EXHAUST AIR STREAM)	68 / 67			
EXHAUST (EXHAUST AIR STREAM)	10.6 / 10.6	N/A	N/A	N/A
SUPPLY (SUPPLY AIR STREAM)	57.7 / 57.7			
OUTDOOR (OUTDOOR AIR STREAM)	0 / 0			
LINES & FILTERS:				
CONDENSATE DRAIN LINE SIZE (IN)	1	1	1	1
RETURN AIR FILTER TYPE	2" MERV 8	2" MERV 8	2" MERV 8	2" MERV 8
QUANTITY AND SIZE	(3) 15.5x24.5	(1) 19.5x19.5, (1) 19.5x23.5	(1) 19.5x19.5, (1) 19.5x23.5	(6) 14.25x17.35
ELECTRICAL DATA - SINGLE POINT POWER CONNECTION:				
VOLTS / Ø / Hz				
MCA / MOCP (AMPS)	N/A	N/A	N/A	N/A
ELECTRICAL DATA - ENERGY WHEEL:				
VOLTS / Ø / Hz	208 / 3 / 60			
MCA / MOCP (AMPS)	0.8 / 15	N/A	N/A	N/A
ELECTRICAL DATA - SUPPLY FAN:				
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	8.3 / 15	5.6 / 15	5.6 / 15	11.3 / 20
ELECTRICAL DATA - EXHAUST FAN:				
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	8.3 / 15	5.6 / 15	5.6 / 15	11.3 / 20
NOTES:				
1. PROVIDE RTU-4 AND RTU-7 WITH DUCT MOUNTED SMOKE DETECTORS.				
2. PROVIDE RTU-4, RTU-5, RTU-6, AND RTU-7 WITH INSULATED ROOF CURB WITH VIBRATION ISOLATION RAIL. ROOF CURB SHALL BE RETURN PLENUM.				
3. PROVIDE UNITS WITH DISCONNECT SWITCH. ALL OUTDOOR UNITS SHALL BE PROVIDED WITH RATED DISCONNECT SWITCH.				
4. PROVIDE RTU-4, RTU-5, RTU-6, AND RTU-7 WITH AIRSIDE ECONOMIZER.				
5. PROVIDE RTU-4, RTU-5, RTU-6, AND RTU-7 WITH HOT GAS REHEAT.				
6. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:				
• HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.				
• 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.				
• FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.				
• UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.				
• PROVIDE 4" FIELD INSTALLED FILTER SECTION WITH HINGED ACCESS DOOR AND PROVIDE MERV 10 FILTERS.				
7. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:				
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.				
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.				
• SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT. UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFDS WITH H-O-A. RTU-4, 5, 6, 7 SHALL HAVE MULTIPLE POINT EXTERNAL POWER CONNECTIONS AT UNIT.				
8. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.				
9. INTERNAL VFDS SHALL BE RATED FOR TEMPERATURE RANGING FROM 0°F TO 100°F.				

HARRISON RECREATION & COMMUNITY CENTER
 New Construction - Phase 2
 Town / Village of Harrison
 270 Harrison Avenue
 Harrison, NY 10528



OLA Consulting Engineers
 50 Broadway,
 Hawthorne, NY 10532
 914.747.2800
 8 West 38th Street,
 Suite 501
 New York, NY 10018
 646.849.4110
 olace.com

CONSTRUCTION DOCUMENTS

E.A.T (DB / WB)	78.5 / 64.7	72.4 / 60.9	73.7 / 61.9	73.5 / 61.3
L.A.T (DB / WB)	49 / 49	52.2 /	53.1 /	50.9 / 50
TOTAL CAPACITY (MBH)	120.3	57.2	61	75.1
SENSIBLE CAPACITY (MBH)	86.9	41.1	41.7	59.5
REHEAT CAPACITY (MBH)	76.2	44.3	42.6	62.5
REHEAT (DB / WB)	75 / 59.6	75	75	75
HEATING PERFORMANCE:				
E.A.T. / L.A.T. (DB)	61.6 / 80	68 / 80	68 / 80	68 / 80
HEATING CAPACITY OUTPUT (MBH)	54.5	23.9	23.9	31.8
SUMMER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)				
RETURN (EXHAUST AIR STREAM)	77 / 63.5			
EXHAUST (EXHAUST AIR STREAM)	92 / 76.1	N/A	N/A	N/A
SUPPLY (SUPPLY AIR STREAM)	79.4 / 65.5			
OUTDOOR (OUTDOOR AIR STREAM)	95 / 78			
WINTER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)				
RETURN (EXHAUST AIR STREAM)	68 / 67			
EXHAUST (EXHAUST AIR STREAM)	10.6 / 10.6	N/A	N/A	N/A
SUPPLY (SUPPLY AIR STREAM)	57.7 / 57.7			
OUTDOOR (OUTDOOR AIR STREAM)	0 / 0			
LINES & FILTERS:				
CONDENSATE DRAIN LINE SIZE (IN)	1	1	1	1
RETURN AIR FILTER TYPE	2" MERV 8	2" MERV 8	2" MERV 8	2" MERV 8
QUANTITY AND SIZE	(3) 15.5x24.5	(1) 19.5x19.5, (1) 19.5x23.5	(1) 19.5x19.5, (1) 19.5x23.5	(6) 14.25x17.35
ELECTRICAL DATA - SINGLE POINT POWER CONNECTION:				
VOLTS				

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



KG+D ARCHITECTS, PC
285 MAIN STREET- MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 501
New York, NY 10018
646.849.4110
olac.com

CONSTRUCTION DOCUMENTS

AIR HANDLER SCHEDULE

DESIGNATION	AH-1	AH-2
LOCATION	MECH B06	MECH 122
AREA SERVED	2ND FLOOR COMMON AREA	MULTIPURPOSE 201
MANUFACTURER	VTS	VTS
MODEL	AVS040V	AVS020V
NOMINAL CAPACITY (TONS)	-	-
WEIGHT OF UNIT (LBS)	717	523
SUPPLY DUCT CONNECTION	TOP	TOP
RETURN DUCT CONNECTION	FRONT	FRONT
OUTSIDE AIR (CFM)	550	1,150
SUPPLY FAN:		
QUANTITY	1	1
TOTAL CFM	3,810	1,800
CFM FOR EACH FAN	3,810	1,800
ESP/TPS (IN H ₂ O)	1 / -	1 / -
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLUG
HP FOR EACH FAN	3	1.5
CONTROL	VFD	VFD
COOLING PERFORMANCE:		
E.A.T (DB / WB)	77.4 / 64.5	89.1 / 73.8
L.A.T (DB / WB)	55.8 / 54	55.2 / 55.2
TOTAL CAPACITY (MBH)	118.9	112.7
SENSIBLE CAPACITY (MBH)	90.4	67.6
REHEAT CAPACITY (MBH)	76.2	38.5
REHEAT (DB / WB)	75 / 59.6	75
HEATING PERFORMANCE:		
E.A.T. / L.A.T. (DB)	60 / 81	23 / 80
HEATING CAPACITY INPUT (MBH)	87.6	111.2
LINES & FILTERS:		
CONDENSATE DRAIN LINE SIZE (IN)	1	1
RETURN AIR FILTER TYPE	2" MERV 8	2" MERV 8
QUANTITY AND SIZE	(6) 14.25x17.35	(2) 19.5x19.5
ELECTRICAL DATA - SINGLE POINT POWER CONNECTION:		
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60
MCA / MOCIP (AMPS)	11.3 / 20	5.6 / 15

- NOTES:
- PROVIDE AH-1 WITH DUCT MOUNTED SMOKE DETECTORS.
 - PROVIDE UNITS WITH DISCONNECT SWITCH. ALL OUTDOOR UNITS SHALL BE PROVIDED WITH RATED DISCONNECT SWITCH.
 - PROVIDE AH-1 AND AH-2 WITH AIRSIDE ECONOMIZER.
 - PROVIDE AH-1 AND AH-2 WITH HOT GAS REHEAT.
 - PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:
 - HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.
 - 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD
 - UNIT SHALL BE MOUNTED ON 4 INCH HIGH CONCRETE EQUIPMENT PAD. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:
 - UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
 - ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
 - SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT. UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFD'S WITH H-O-A.
 - CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.

FAN SCHEDULE

DESIGNATION	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	TX-1	TX-2	TX-3
LOCATION	MECH B06	MECH B06	SEE PLANS	ROOF	MECH B06	ROOF	ROOF	ROOF	ROOF
AREA SERVED	PARKING B01	PARKING B01	SEE PLANS	PANTRY	FIRST FLOOR	LOCKER ROOM	LOCKER ROOM	TOILET 105 JAN 104	FIRST FLOOR BATHROOMS
MODEL	XD100EC	XD200EC	SQ-90-VG	G-097-VG	SQ-160-VG	G-095-VG	G-140-VG	G-097-VG	G-098-VG
CFM	500	3400	250	265	2700	650	1150	100	400
BHP	0.127	0.662	0.02	0.11	0.51	0.13	0.3	0.03	0.14
HP	1/4	1	1/10	1/4	3/4	1/8	1/2	1/4	1/4
FAN RPM	1800	910	1111	1636	1121	1577	1160	1121	1551
SP (IN H ₂ O)	0.5	0.5	0.25	0.53	0.5	0.5	0.82	0.5	0.82
VOLTS/Ø/Hz	115/1/60	208/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
INTERLOCK	-	-	-	-	-	-	-	-	-

- NOTES:
- FANS BASED ON GREENHECK. EF-1 AND EF-2 BASED ON ACME.
 - FURNISH MOTOR STARTERS AND DISCONNECT SWITCHES FOR EACH FAN.
 - FURNISH RUBBER IN SHEAR OR SPRING VIBRATION ISOLATORS.
 - SEE PLAN FOR INLET AND DISCHARGE ORIENTATION.
 - PROVIDE BACKDRAFT DAMPER FOR EF-4, EF-6, TX-1, TX-2, TX-3.

PUMP SCHEDULE

DESIGNATION	GW-P-1 / 2	P-1, 2, 3, 4, 5, 6, 7, 8, 9, 10
LOCATION	MECH B06	MECH B06
SYSTEM SERVED	GEOTHERMAL WELLS	WCHP'S
ARRANGEMENT	INLINE	INLINE
MANUFACTURER	TACO	TACO
TYPE	VERTICAL, SPLIT COUPLED	CIRCULATING
MODEL	SKS3006D	IL132
IMPELLER DIA. (IN.)	6.25	-
GPM	230	36
TOTAL DYNAMIC HEAD (FT H ₂ O)	80	20
RPM	3500	1725
NPSH (FT. H ₂ O)	12.2	-
MOTOR HP	15	1/2
VOLTAGE/Ø/Hz	208/3/60	120/1/60
STARTER TYPE	VFD	-
STARTER LOCATION	INTEGRAL	-
DISCONNECT SWITCH AT PUMP (Y/N)	Y	Y
INTERLOCK	-	-

- NOTES:
- ALL PUMPS SHALL BE CAST IRON BODY, BRONZE FITTED, BRONZE IMPELLER. REFER TO SPECIFICATION FOR PUMP CONSTRUCTION.
 - FLUID SHALL BE 20% PROPYLENE GLYCOL SOLUTION.
 - ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.
 - ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED AND APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
 - MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

LOUVER SCHEDULE

DESIGNATION	L-1	L-2	L-3	L-4	L-5
LOCATION	MECH 122	MECH B06	MECH B06	GARAGE	GARAGE
AREA SERVED	LOCKER ROOMS	SEE PLANS	SEE PLANS	GARAGE	GARAGE
MODEL	ESD-635	ESD-635	ESD-635	ESD-635	ESD-435
FREE AREA (SF)	3.7	20.4	20.4	8.7	8.1
MAXIMUM FACE VELOCITY (FPM)	500	500	700	500	700
DIMENSIONS (WxH)(IN)	76x18	66x72	66x72	72x32	44x48

- NOTES:
- LOUVERS BASED ON GREENHECK.
 - COORDINATE EXACT LOUVER SIZE WITH ARCHITECTURAL PLANS AND WITH WALL OPENING IN FIELD.
 - ALL LOUVERS SHALL BE STATIONARY, DRAINABLE BLADE.
 - CUSTOM COLORED LOUVERS SHALL BE SELECTED BY ARCHITECT. SUBMIT COLOR CHART FOR REVIEW.
 - FURNISH 1/2" GALVANIZED BIRD SCREEN FOR ALL LOUVERS.
 - BLANK OFF UNUSED SECTIONS OF LOUVERS WITH SHEET METAL PANELS. PAINT PANELS TO MATCH LOUVER AND INSULATE WITH 1" RIGID BOARD INSULATION.

AIR PURIFICATION SCHEDULE

DESIGNATION	AP-1	AP-2	AP-3	AP-4	AP-5	AP-6	AP-7	AP-8
MODEL	500EC	500EC	500FC	500FC	M1002	M1002	500EC	500EC
TUBE SIZE	E	E	F	F	E	E	E	E
ASSOCIATED HVAC UNIT	DOAS-2	DOAS-1	RTU-1	RTU-2	RTU-3	RTU-4	AH-1	AH-1
ELECTRICAL DATA:								
VOLTS / Ø / Hz	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60
AMPS	0.13	0.13	0.15	0.15	0.4	0.4	0.13	0.13

- NOTES:
- AIR PURIFICATION BASED ON ATMOS AIR. AIR PLUS IS AN APPROVED EQUAL AND CONTACT INFORMATION IS LARRY SUNSHINE AT LSUNSHINE@AIR-PLUS.COM
 - AIR PURIFICATION SYSTEM SHALL BE MOUNTED ON SUPPLY AIR DUCT OR ON HVAC UNIT. REFER TO DRAWINGS FOR EXACT LOCATION.
 - AIR PURIFICATION SYSTEM SHALL BE INTERLOCKED WITH ASSOCIATED HVAC UNIT.
 - CONTRACTOR SHALL PROVIDE MOUNTING BRACKET AS NEEDED FOR INSTALLATION. COORDINATE WITH FINAL MOUNTING LOCATION.
 - CONTRACTOR SHALL PROVIDE A WEATHERPROOF ENCLOSURE WITH AN ACCESS PANEL OVER THE ATMOS AIR ION GENERATOR WHEN INSTALLED OUTDOORS.

OUTDOOR AIR

UNIT DESIGNATION	AREA SERVED	AREA (SF)	OUTDOOR AIR CFM
VRF-1 / DOAS-1	OPEN OFFICE 103	433	51
VRF-1 / DOAS-1	COPY/PRINT 103A	58	4
VRF-1 / DOAS-1	CONF 103B	320	132
VRF-2 / DOAS-1	RECREATION GAME ROOM 106	1,160	488
VRF-3 / DOAS-1	COMPUTER/GAMING 107	668	426
VRF-4 / DOAS-1	ARTS/CRAFTS 108	952	597
VRF-4 / DOAS-1	STOR 108A	146	11
VRF-5 / DOAS-1	MEETING 112	217	85
VRF-6 / DOAS-1	OPEN OFFICE 212	247	31
VRF-6 / DOAS-1	OFFICE 212A	152	24
VRF-6 / DOAS-1	CONF 212B	164	69
RTU-5 / DOAS-2	MULTIPURPOSE 201	930	463
RTU-6 / DOAS-2	MULTIPURPOSE 202	1,071	681
RTU-7 / DOAS-2	MULTIPURPOSE 203	1,353	788
RTU-7 / DOAS-2	PANTRY 206	207	74
AH-1	VEST 100	166	12
AH-1	LOBBY 101	1,539	228
AH-1	JAN 104	51	0
AH-1	TOILET 105	58	0
AH-1	CORR C101	898	67
AH-1	CORR C102	138	10
AH-1	CORR C103	143	11
AH-1	WOMEN 109	229	0
AH-1	MEN 110	227	0
AH-1	EAST CORRIDOR 114	915	70
RTU-4	VIEWING 200	979	1,451
RTU-4	CORR C201	344	26
RTU-4	CORR 204	733	55
RTU-4	STOR 205B	31	2
RTU-4	WOMEN 207	173	0
RTU-4	MEN 208	161	0
RTU-4	JAN 210	41	0
RTU-4	TOILET 211	59	0
RTU-3	FITNESS 123	3,268	1,100
RTU-3	STOR 123A	83	5
RTU-1 / RTU-2	GYM	13,725	6,900

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7	10/09/2024	CONFIRMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

Sheet Title

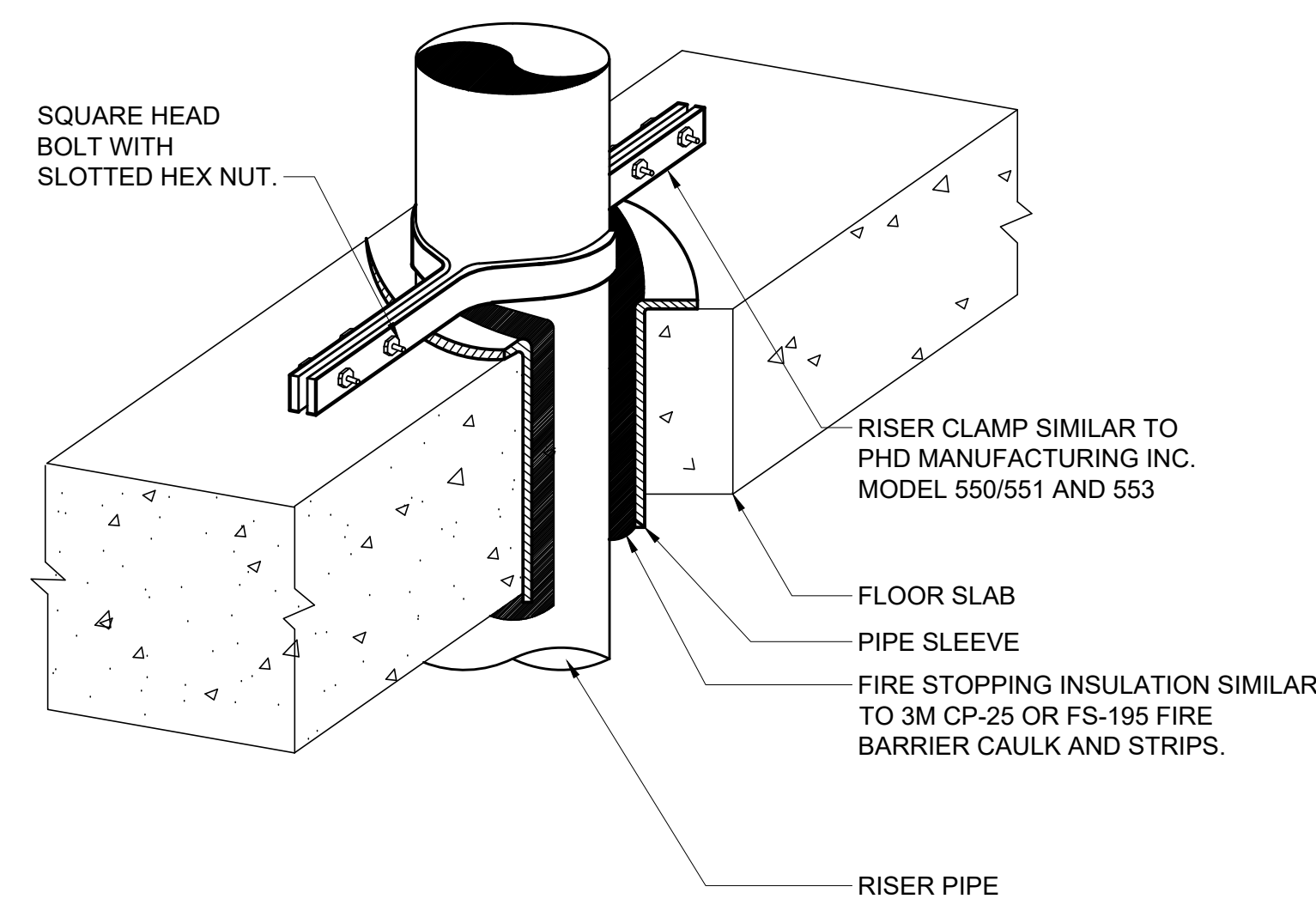
MECHANICAL EQUIPMENT, NOTES & SCHEDULES

Job No. NKGD0207.00 Date 03/01/2024

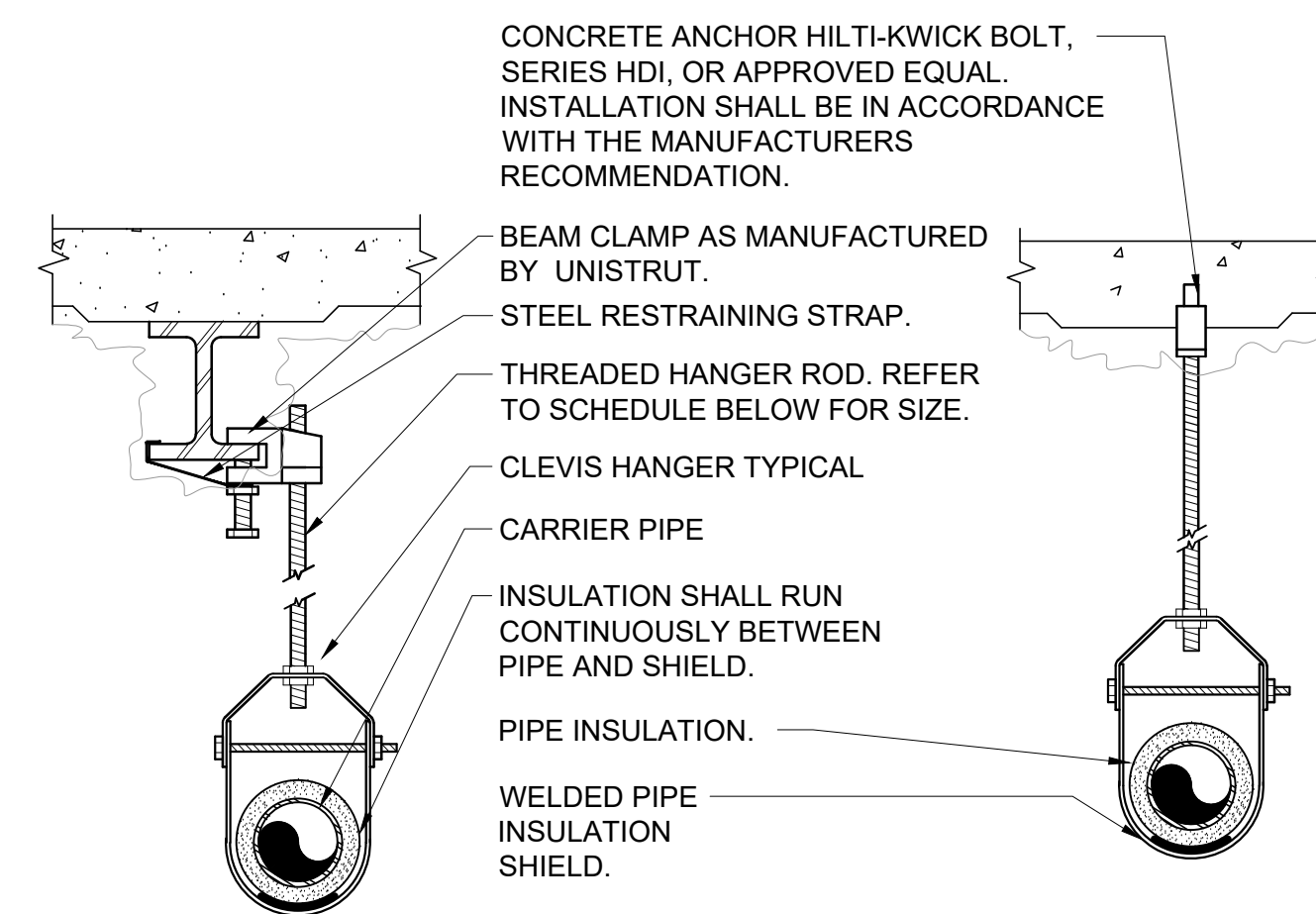
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Sheet Number

M-603



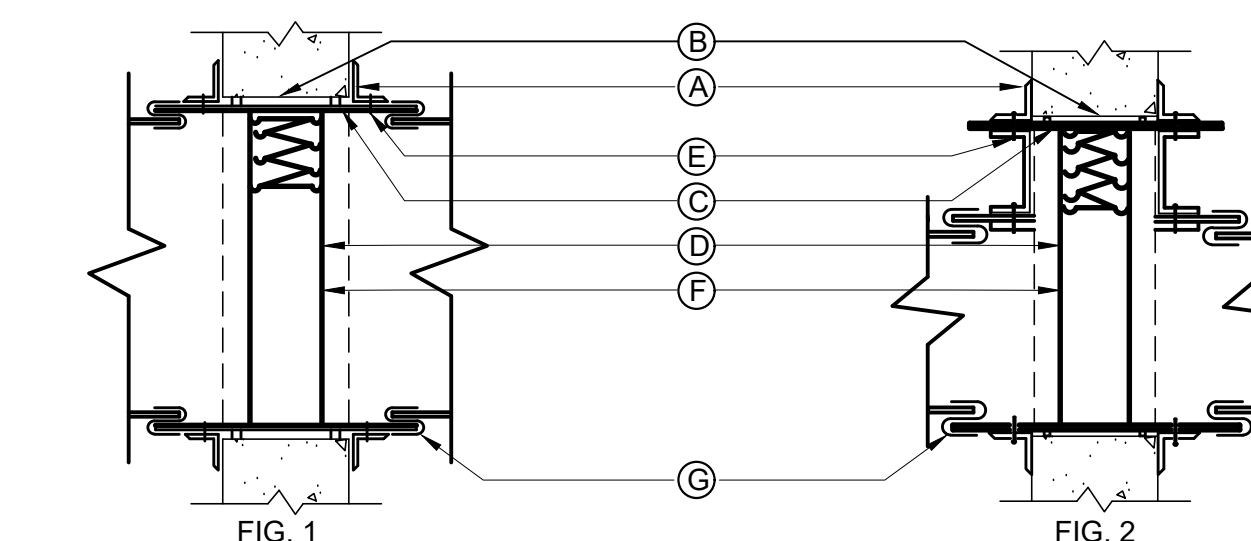
8 VERTICAL PIPE SUPPORT DETAIL
SCALE: NONE



PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

- NOTES:
- 1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
 - 2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
 - 3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
 - 4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
 - 5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
 - 6.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
 - 7.) ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

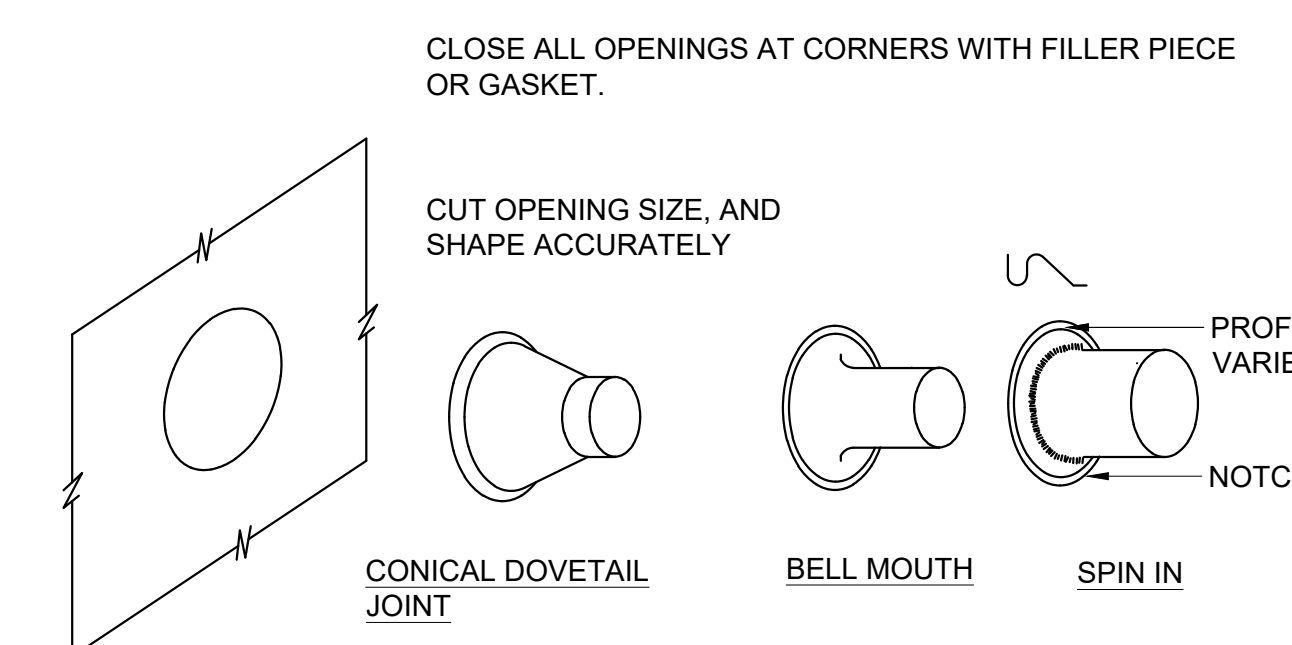
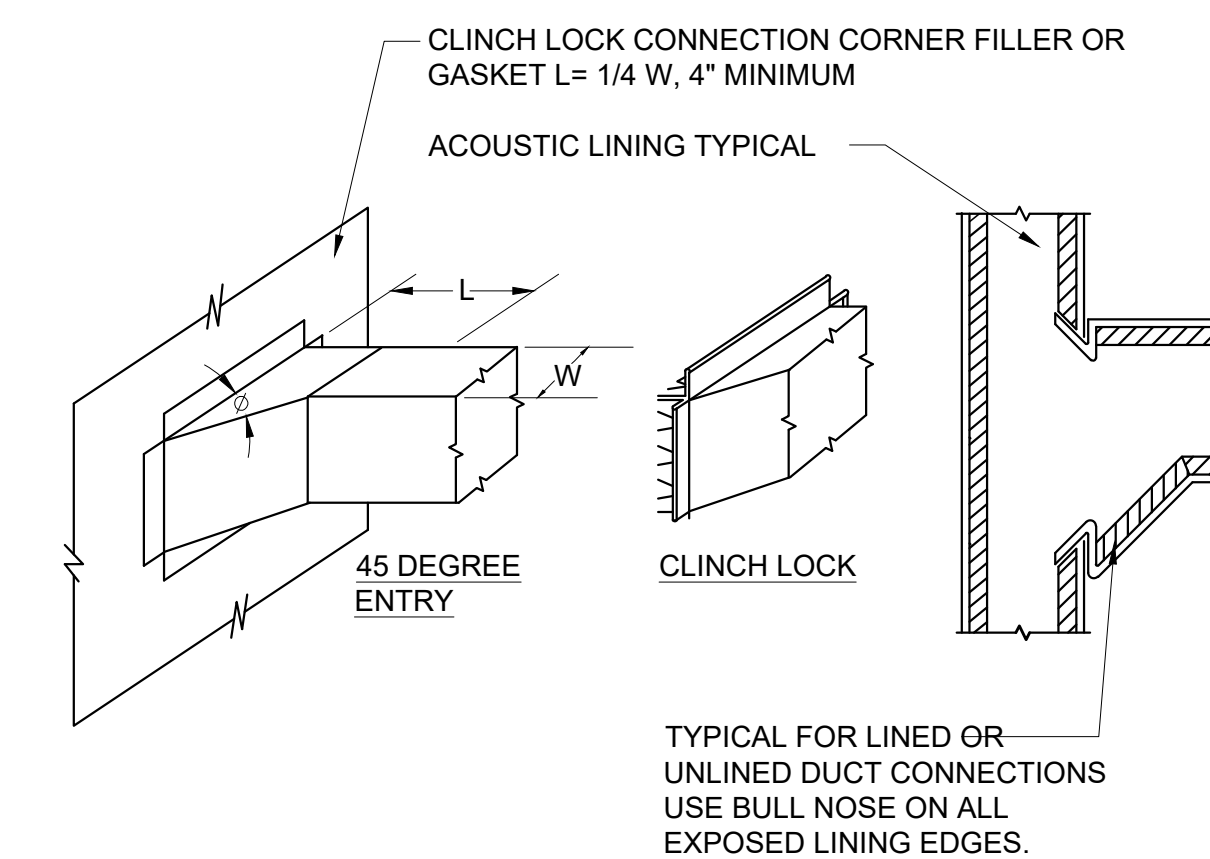
6 PIPE HANGER DETAIL
SCALE: NONE



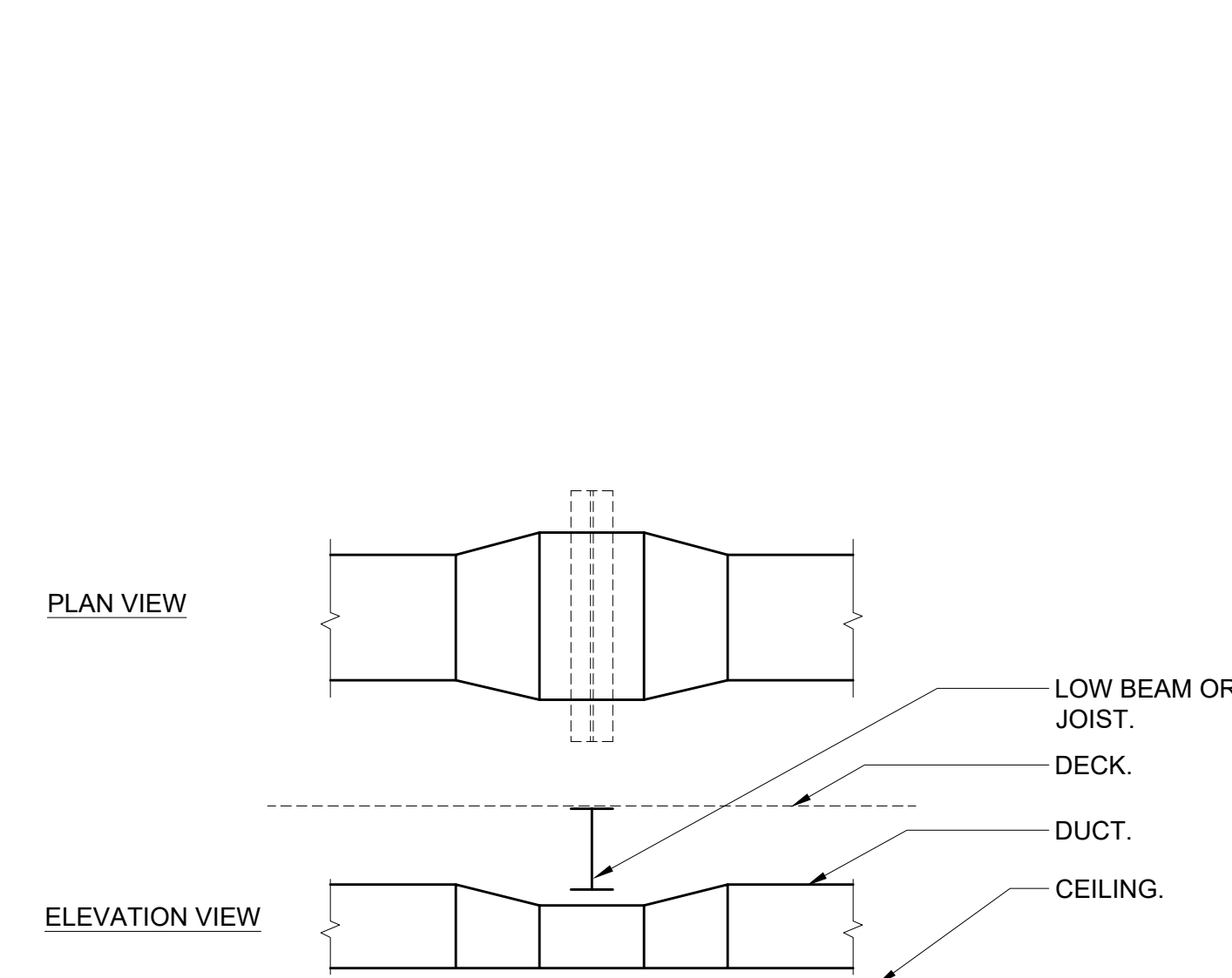
- NOTES:
- A.) RETAINING ANGLES SHALL BE A MINIMUM 1-1/2"x1-1/2"x16 GAUGE AND MUST OVERLAP THE STRUCTURAL OPENING BY A MINIMUM OF 1".
 - B.) CLEARANCE BETWEEN SLEEVE AND OPENING SHALL BE 1/8" PER LINEAR FOOT, AS PER SMACNA FIG. 2-1.
 - C.) STEEL SLEEVE SHALL BE AS PER SMACNA TABLE 2-2.
 - D.) U.L. APPROVED FIRE DAMPER.
 - E.) SECURE RETAINING ANGLES TO SLEEVE ONLY AT 8" CENTERS AS PER SMACNA FIG. 2-1.
 - F.) SECURE DAMPER TO SLEEVE AT 8" CENTERS AS PER SMACNA FIG. 2-1.
 - G.) CONNECT DUCT TO SLEEVE WITH BREAK-AWAY CONNECTION AS PER SMACNA FIG. 2-2.

- 1.) FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A, UL LABELS AND THE LATEST ISSUE OF S.M.A.C.N.A. CHAPTER 2.
- 2.) CURTAIN TYPE FIRE DAMPERS SHOWN, MULTI-BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE.
- 3.) PROVIDE ACCESS DOORS. INSTALL (1) AD FOR EACH FIRE DAMPER AS PER SMACNA FIG. 6-1.
- 4.) FOR DUCT 12" OR LESS IN DEPTH, FIRE DAMPER SHALL BE OUT OF THE AIR STREAM. REFER TO FIGURE 2.
- 5.) FIRE DAMPERS SHALL CONFORM TO N.Y.C. MANUFACTURING B.S. AND A. NUMBER 100-65 SM.

4 SHUTTER TYPE FIRE DAMPER AND SLEEVE DETAIL
SCALE: NONE

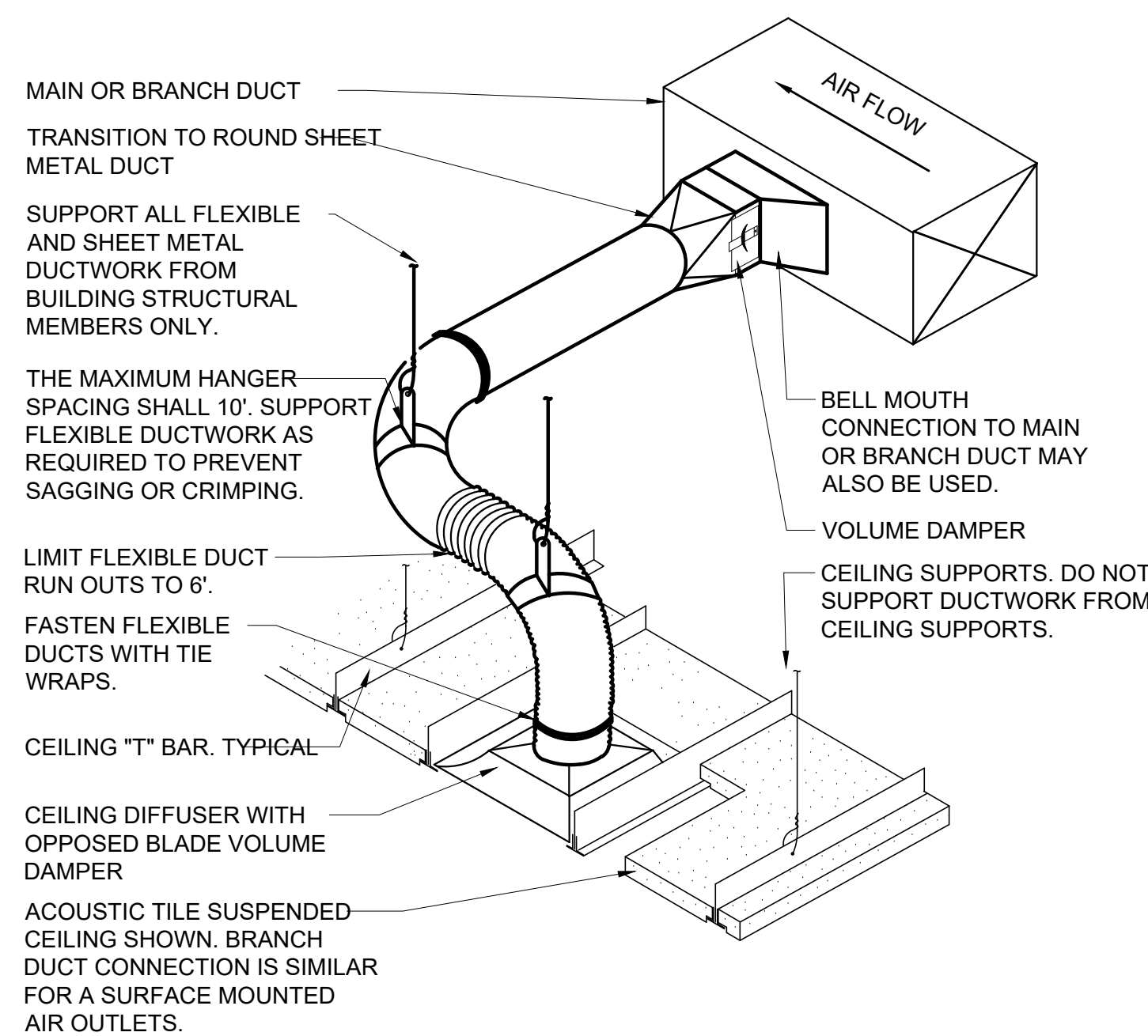


2 DUCT BRANCH CONNECTION DETAIL
SCALE: NONE



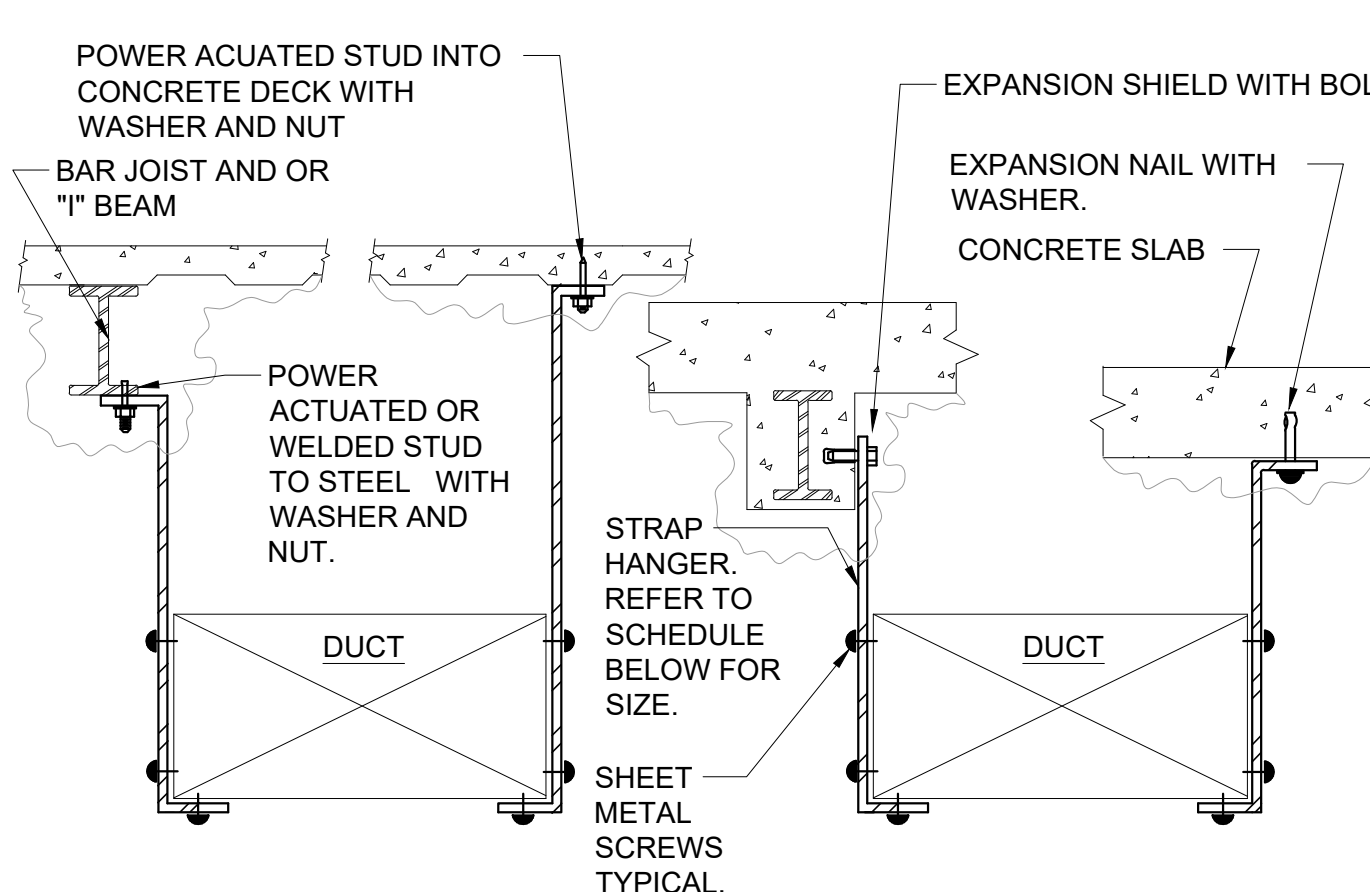
- NOTES:
- 1.) WHERE INDICATED ON THE PLANS, OR REQUIRED DUE TO FIELD CONDITIONS, THE CONTRACTOR SHALL ROUTE DUCTWORK UNDER LOW BEAMS OR JOISTS IN THE MANNER INDICATED ABOVE.
 - 2.) REDUCE DUCT HEIGHT AT THE CROSSING IN ORDER TO FIT UNDER THE BEAM OR JOIST.
 - 3.) INCREASE DUCT WIDTH AT THE CROSSING IN ORDER TO MAINTAIN THE SAME CROSS SECTIONAL AREA.
 - 4.) USE SMACNA APPROVED TRANSITIONS.

7 DUCT UNDER LOW BEAM DETAIL
SCALE: NONE



- NOTES:
- 1.) THIS BRANCH DUCT ARRANGEMENT IS SIMILAR FOR PLENUM SLOT DIFFUSERS.

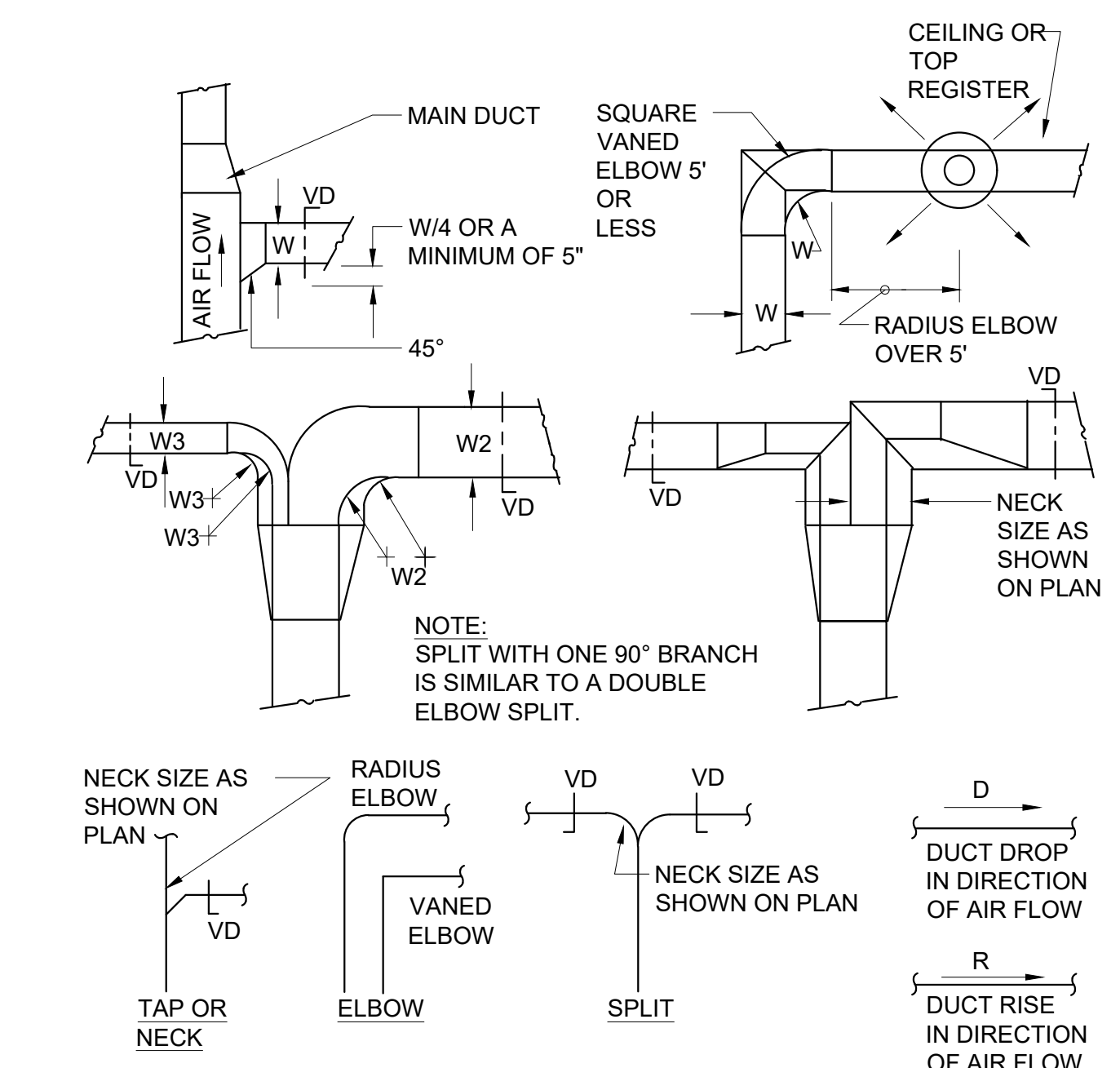
5 FLEXIBLE DUCT CONNECTION DETAIL
SCALE: NONE



- NOTES:
- 1.) FOR DUCTS OVER 48" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.
 - 2.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
 - 3.) ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

HANGER STRAP SCHEDULE		
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UP TO 2 SQ.FT.	1" X 1/16"	8'-0"
2 SQ.FT. TO 4 SQ.FT.	1" X 1/8"	8'-0"
4 SQ.FT. TO 10 SQ.FT.	1" X 1/8"	6'-0"
OVER 10 SQ.FT.	1" X 1/8"	4'-0"

3 DUCT HANGER DETAIL
SCALE: NONE



- NOTES:
- 1.) SINGLE LINE REPRESENTATIONS REFER TO DOUBLE LINE DETAILS.
 - 2.) USE RADIUS OR SQUARE VANED BENDS FOR BOTH ELBOWS AND SPLITS AS DETERMINED BY SPACE LIMITATIONS, AND THE DISTANCE FROM AIR OUTLETS.
 - 3.) ALL SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, AND MAINTAIN A CONSTANT WIDTH.
 - 4.) WHERE DUCTS SPLIT, THE SOLID LINE REPRESENTATION IS PREFERRED, UNLESS PRECLUDED BY SPACE, OR OTHERWISE INDICATED.
 - 5.) USE ELBOW SPLIT FOR BRANCH CONNECTIONS ONLY WHERE NECK SIZE IS GIVEN.

1 DUCT BRANCH TAKE - OFF DETAIL
SCALE: NONE

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No.	Date	Issue
7	10/09/2024	CONFIRMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2024	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

**MECHANICAL
DETAILS**

Job No.	Date
NKGD0207.00	03/01/2024

Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number
M-701

7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. _____ Date _____ Issue _____

Sheet Title

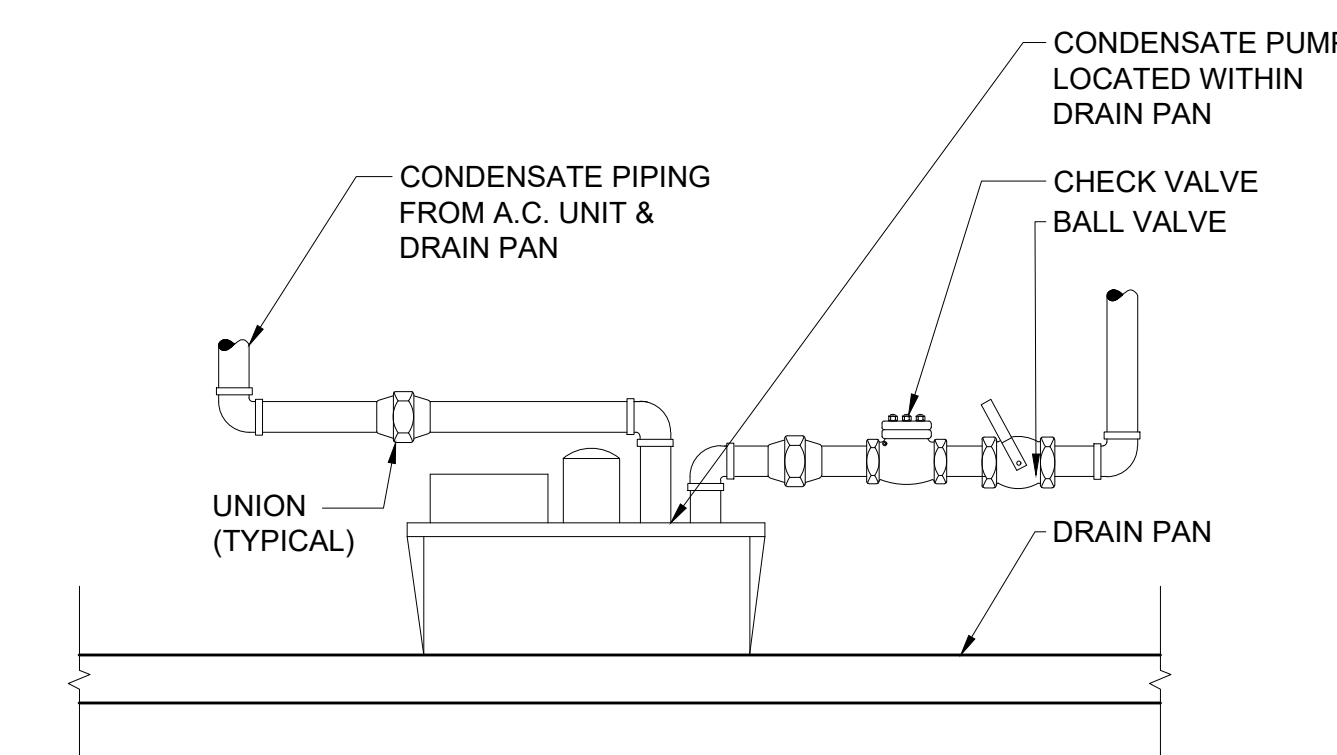
**MECHANICAL
DETAILS**

Job No. NKGD0207.00 Date 03/01/2024

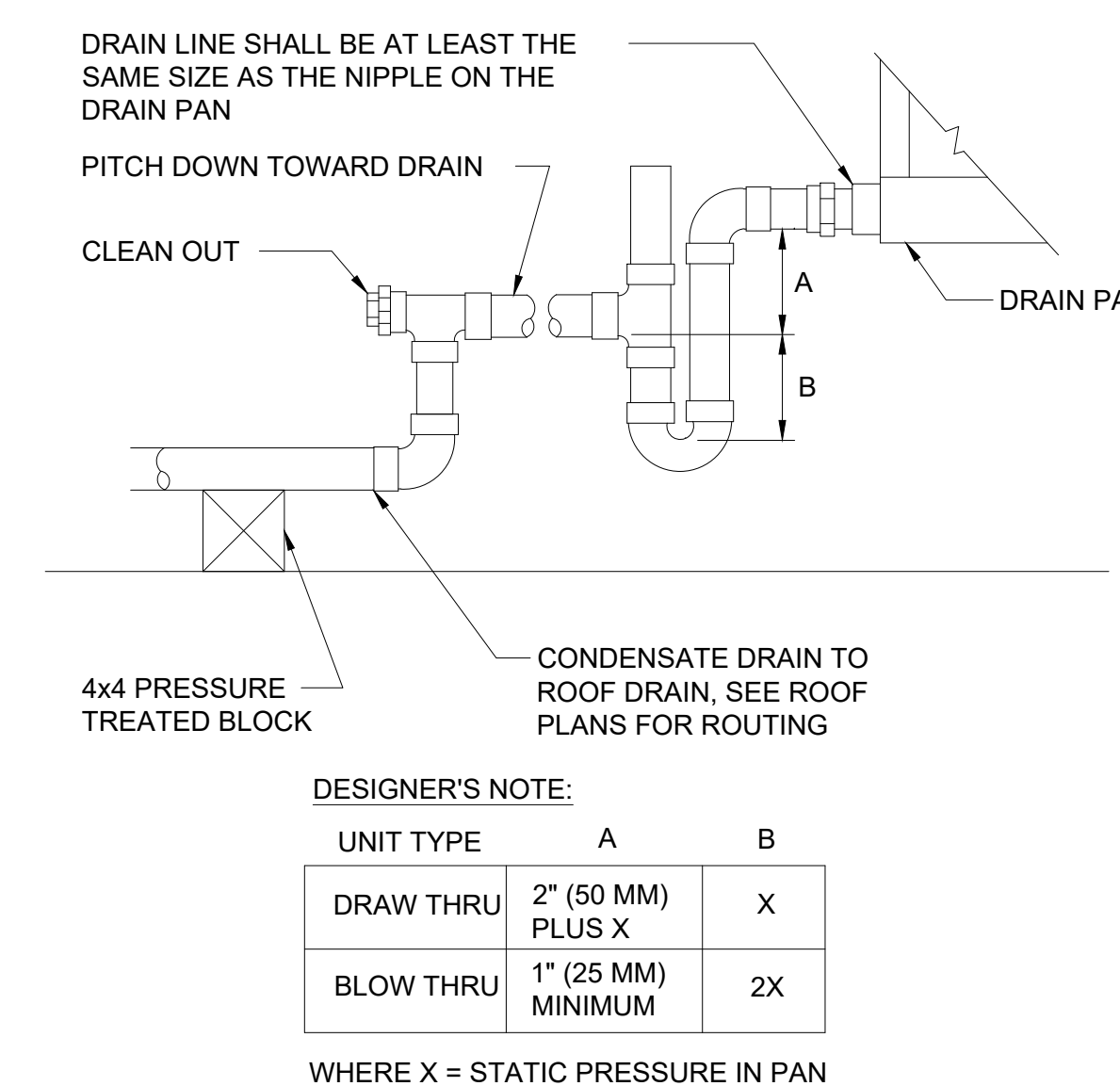
Scale AS NOTED Drawn / Checked HM / RG

Sheet Number

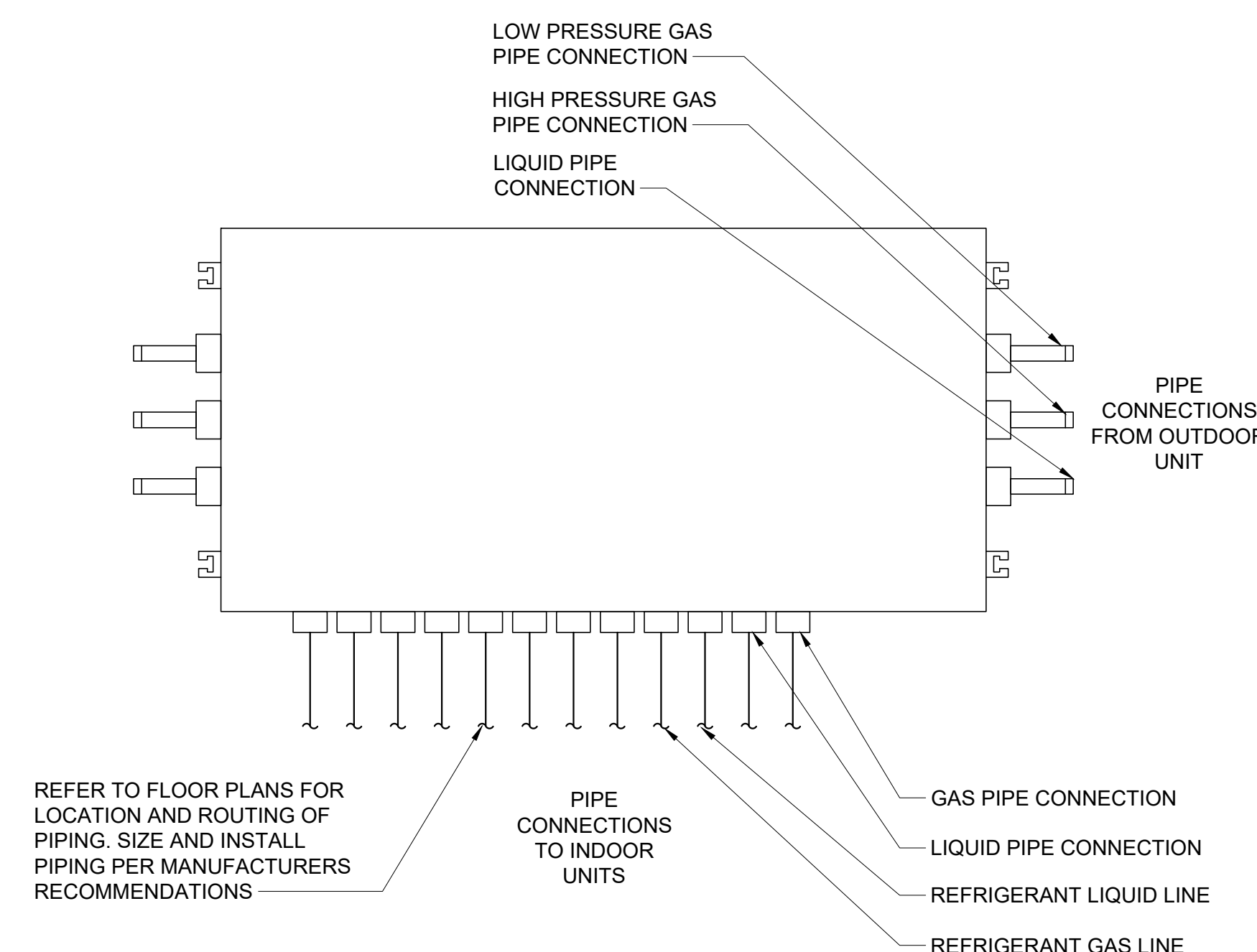
M-702



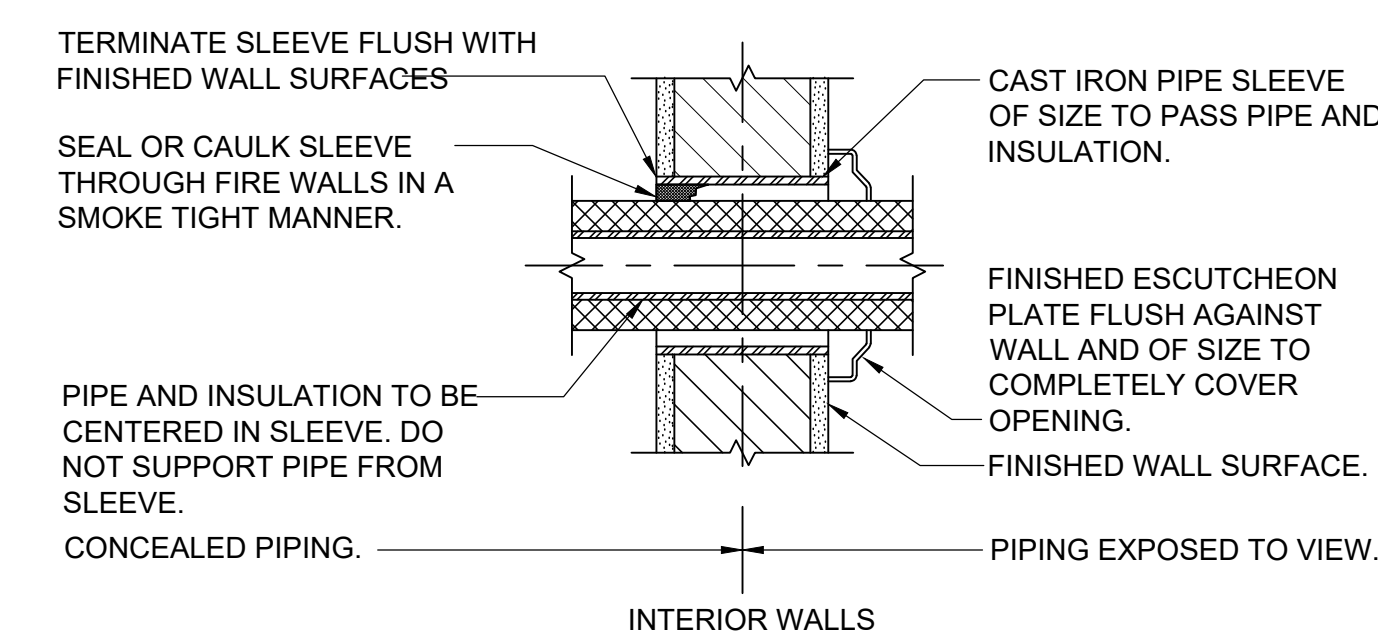
2 CONDENSATE PUMP DETAIL
SCALE: NONE



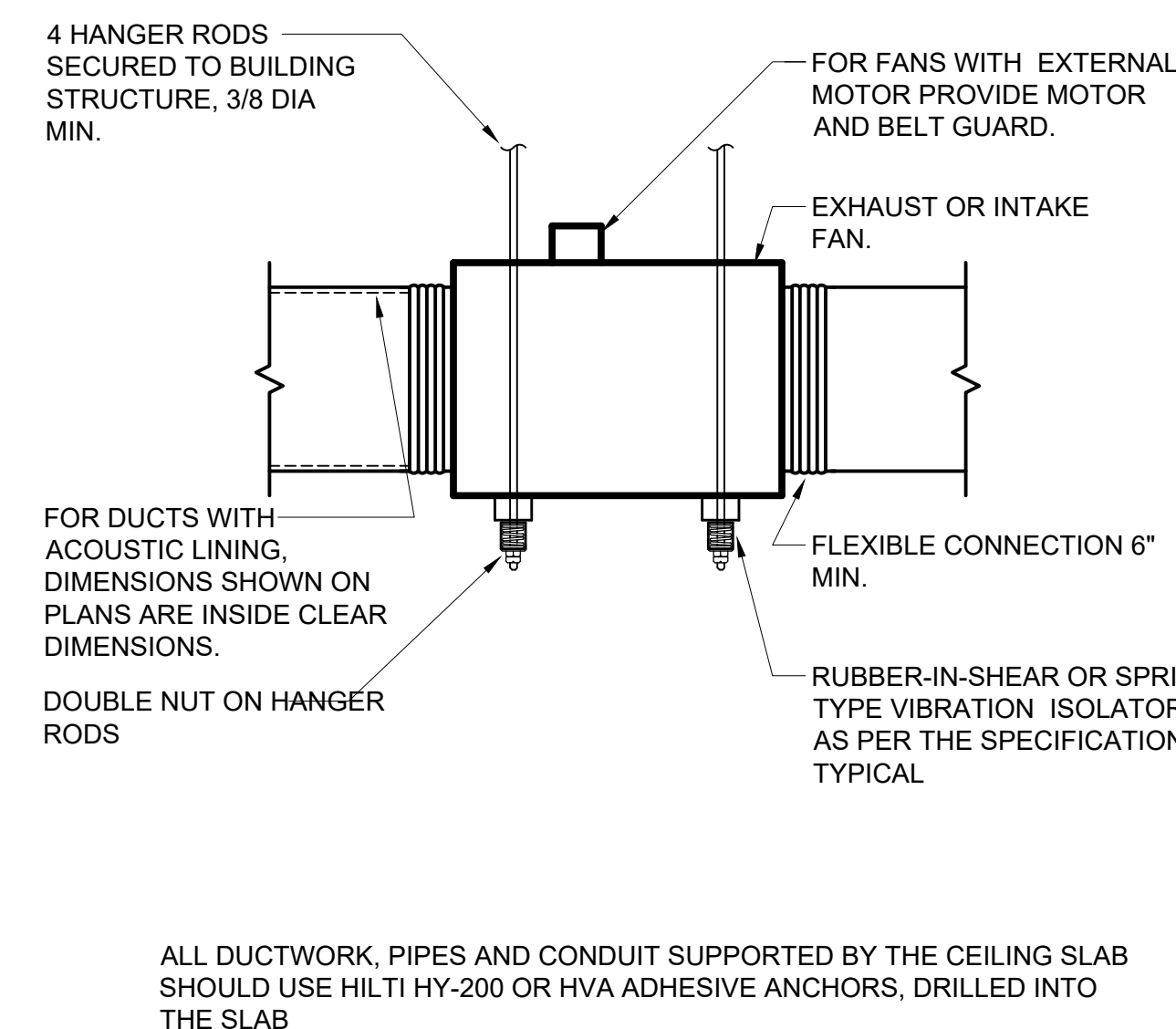
4 CONDENSATE DRAIN TRAP DETAIL
SCALE: NONE



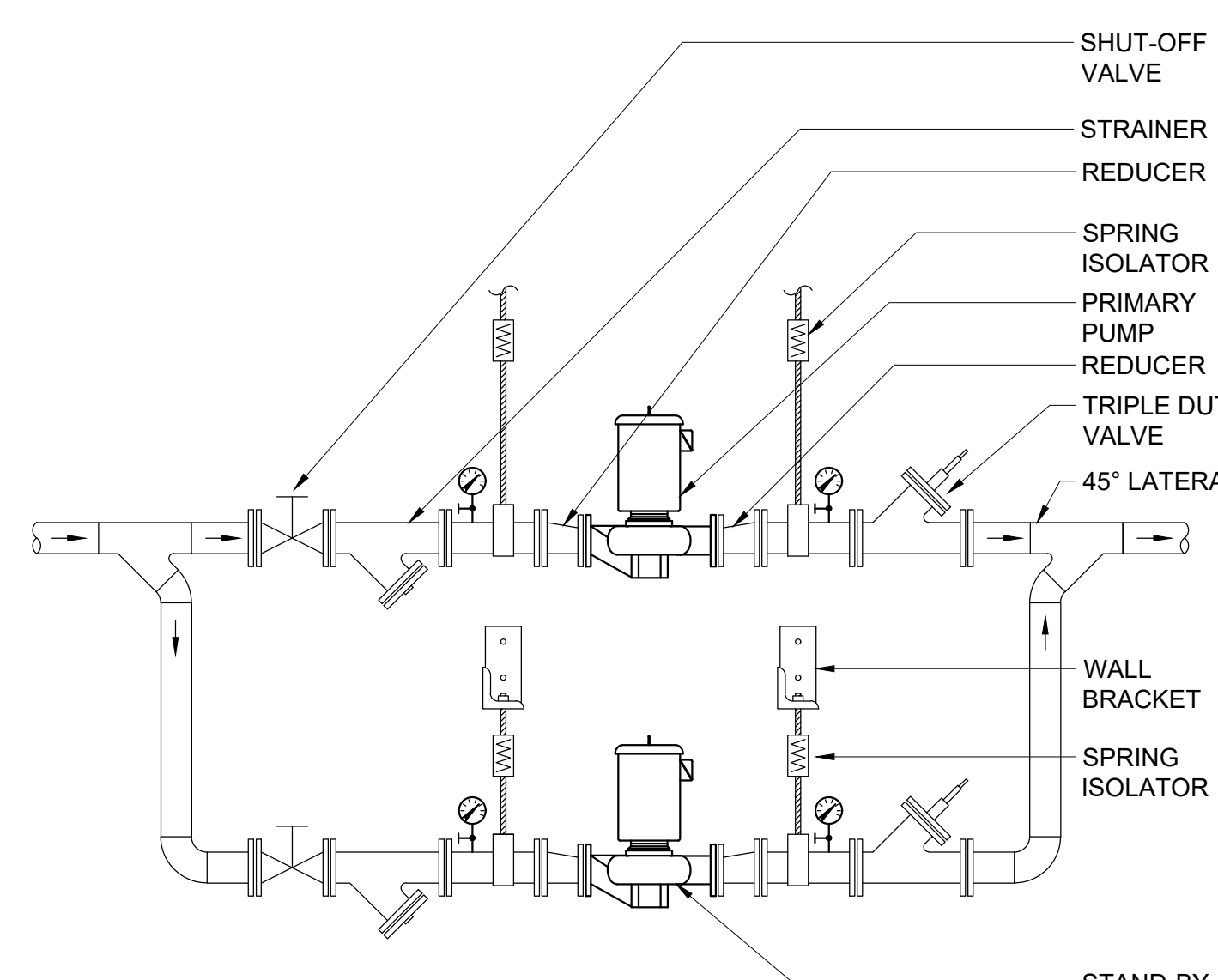
6 HEAT RECOVERY UNIT BOX DETAIL
SCALE: NONE



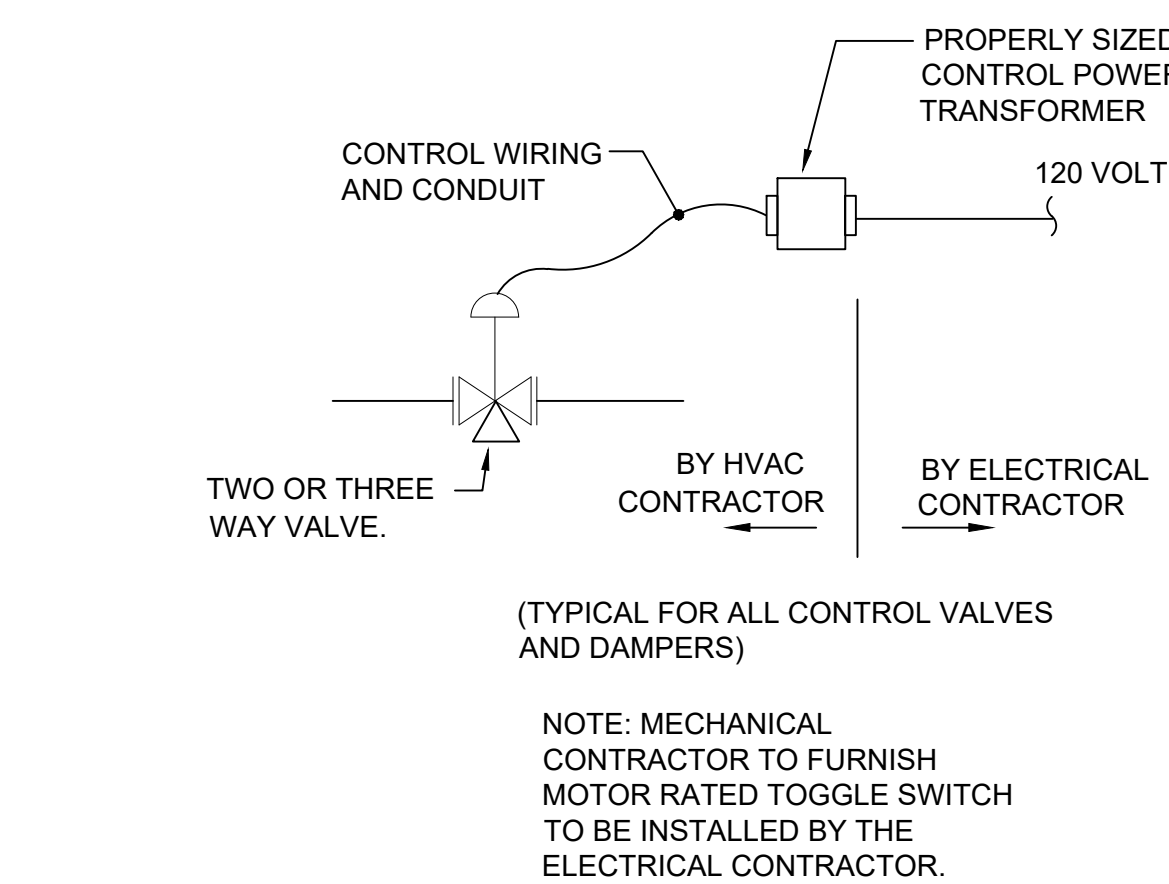
1 PIPE SLEEVES THROUGH WALL
SCALE: NONE



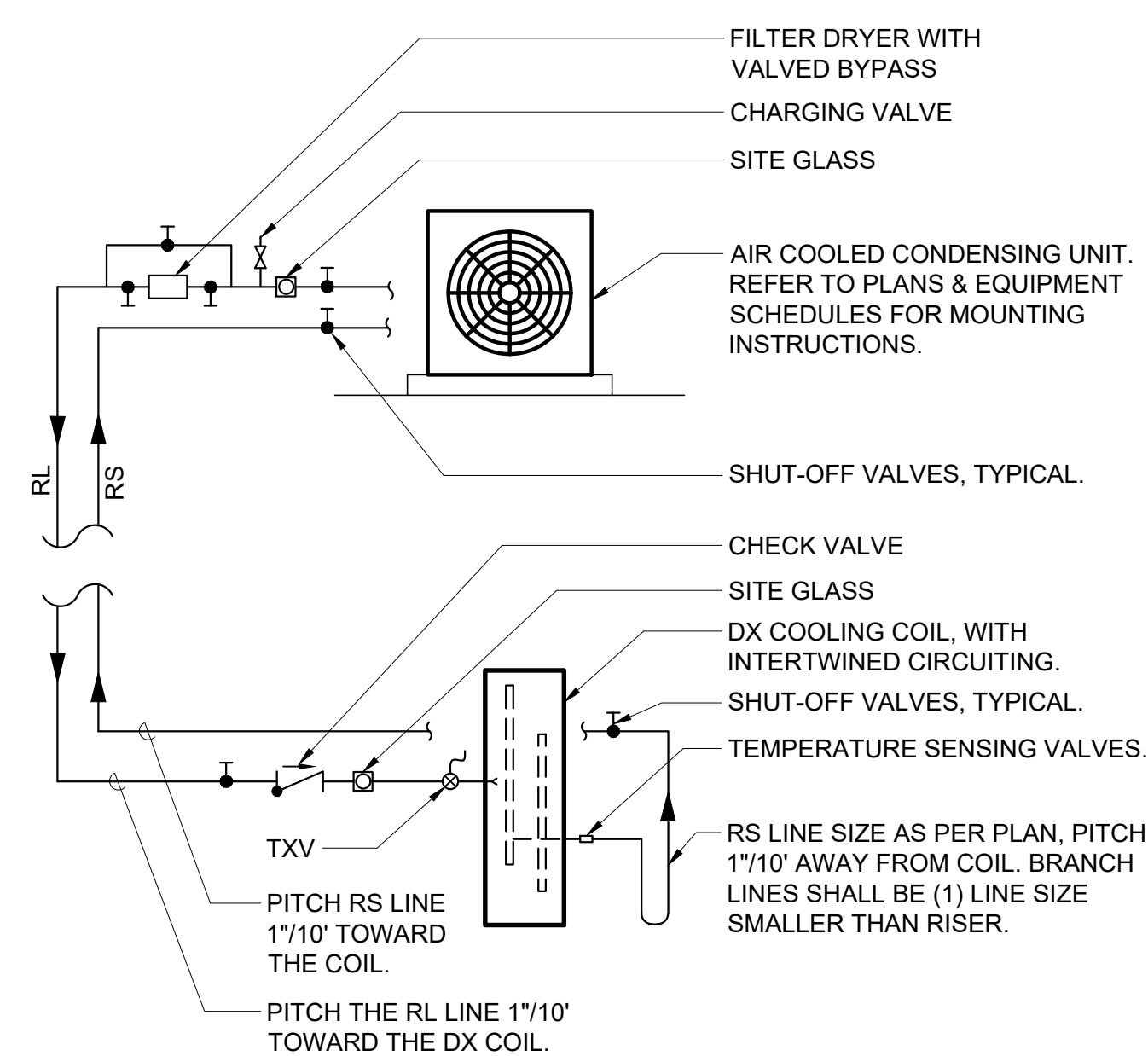
3 INLINE FAN DETAIL
SCALE: NONE



5 IN-LINE PUMP DETAIL
SCALE: NONE



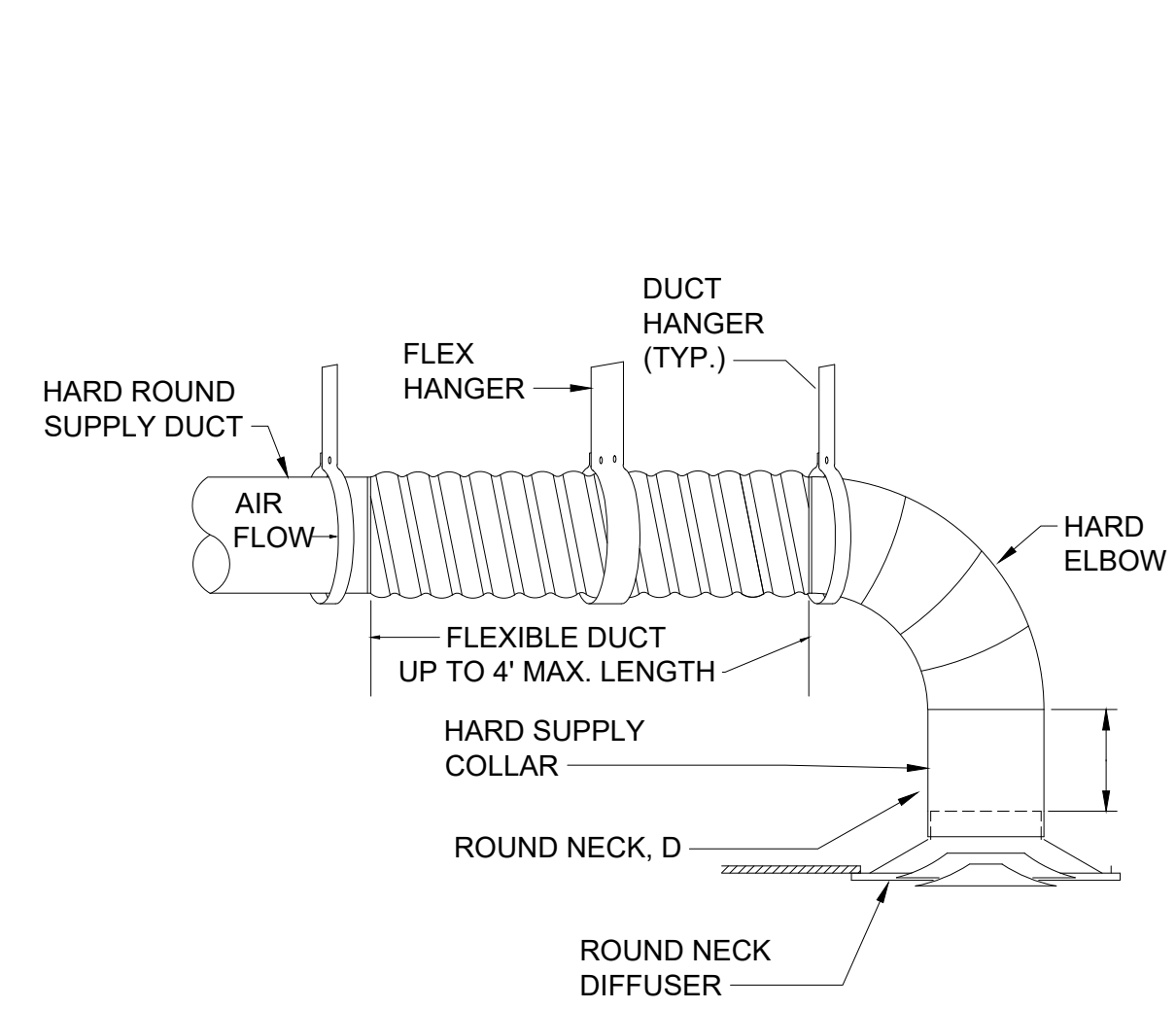
8 CONTROL VALVE WIRING SCHEME
SCALE: NONE



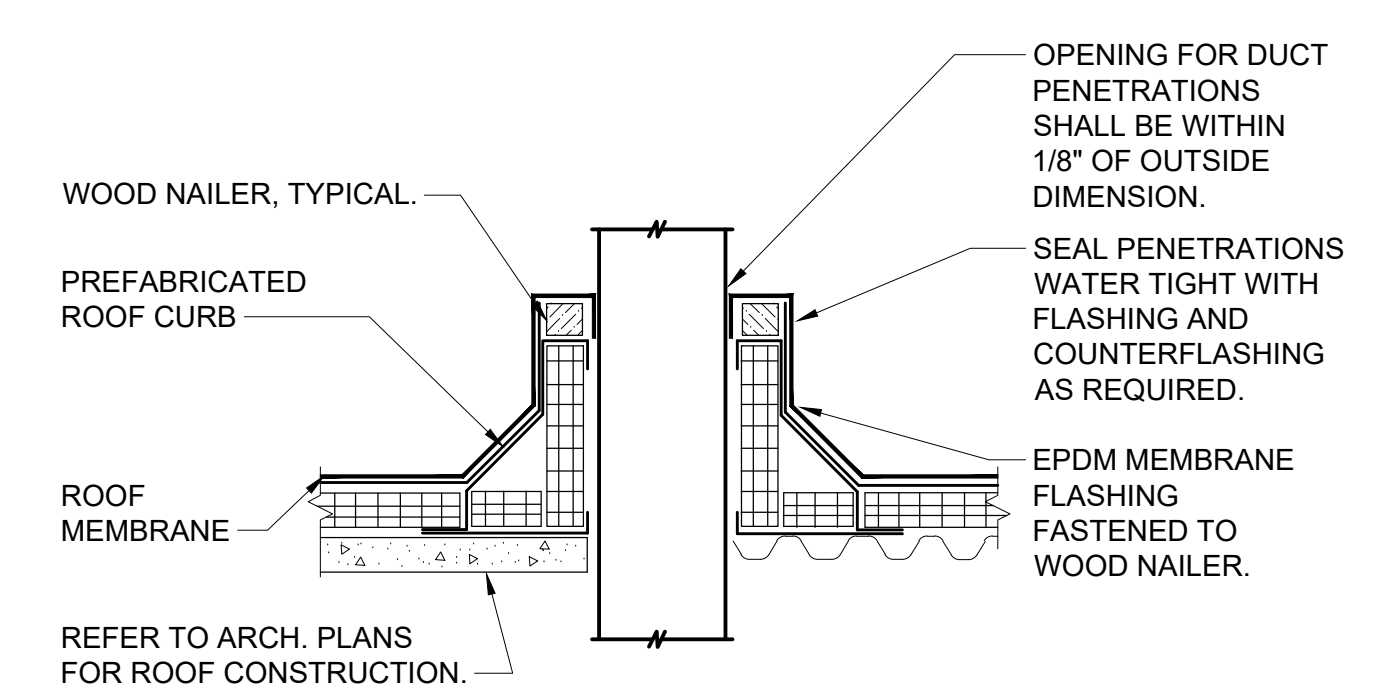
**7 DUCTLESS DX SPLIT-SYSTEM
AC UNIT PIPING SCHEMATIC**
SCALE: NONE

NOTES:
1.) PROVIDE ISOLATION VALVES ON ALL REFRIGERANT PIPING CONNECTED TO UNIT.

NOTES:
1.) HANG PRIMARY PUMP FROM BUILDING STRUCTURE WITH SPRING-TYPE VIBRATION ISOLATORS.
2.) HANG STAND-BY PUMP FROM BUILDING STRUCTURE OR SUPPORT FROM WALL BRACKETS SIMILAR TO F&M FIGURE #151.

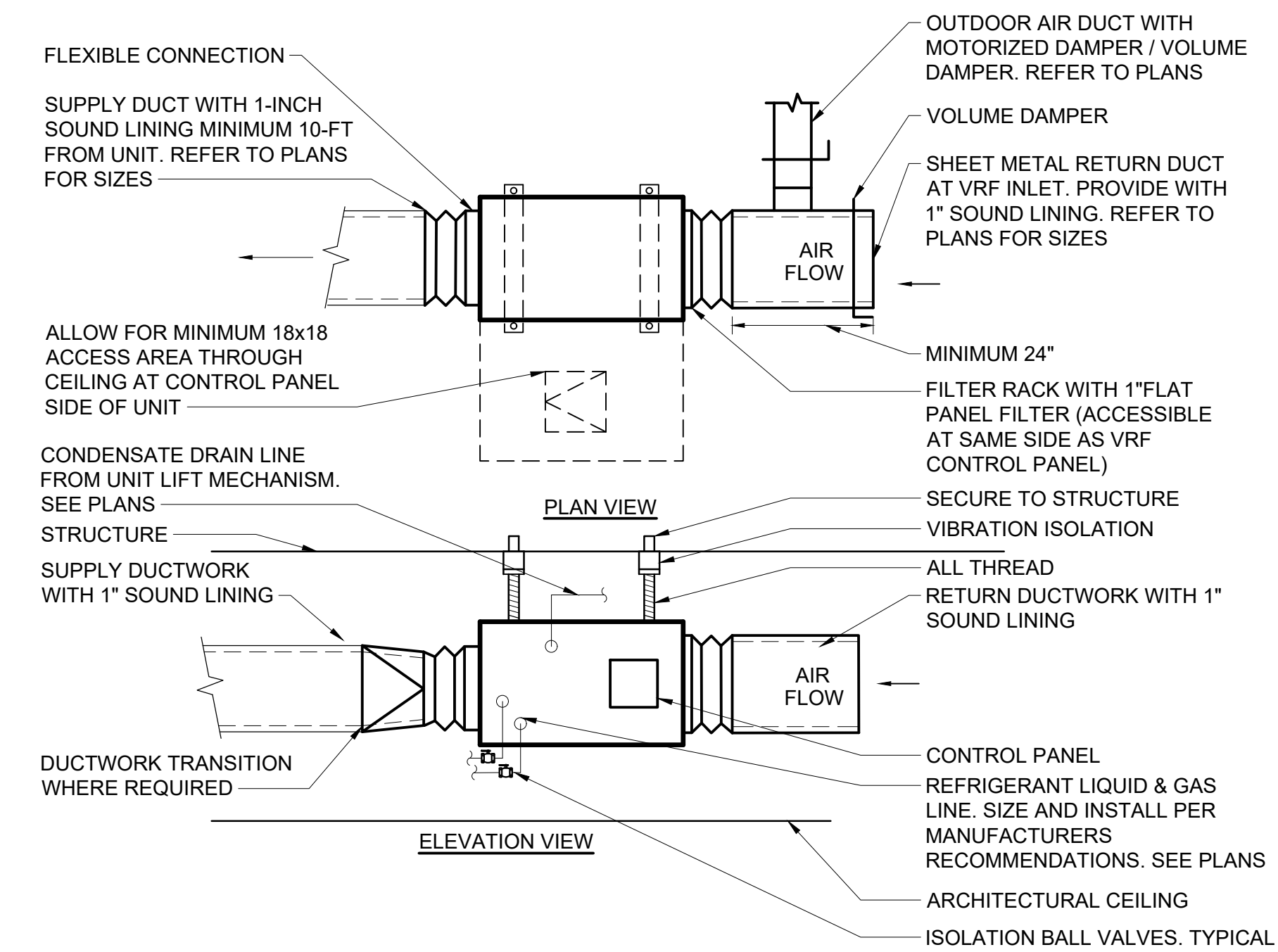


8 ROUND CONNECTION
TO ROUND NECK DIFFUSER
SCALE: NONE

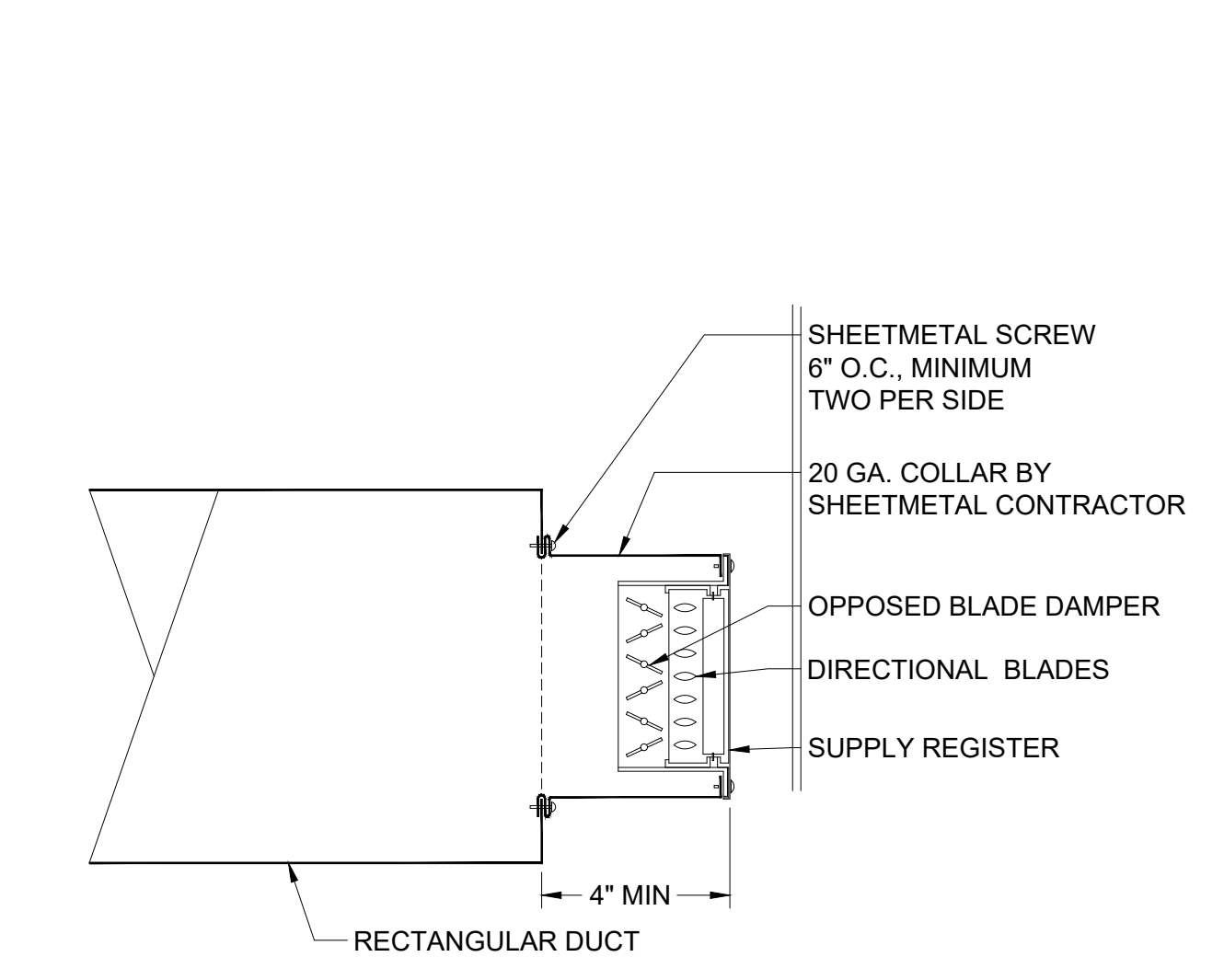


NOTES:
1. THIS DETAIL SHALL BE USED FOR ALL DUCT PENETRATIONS THROUGH ROOF, BOTH NEW AND EXISTING.
2. PREFABRICATED ROOF CURB SHALL BE OF PRIME 18 GAUGE GALVANIZED STEEL CONSTRUCTION WITH WELDED CORNERS AND 3\"/>

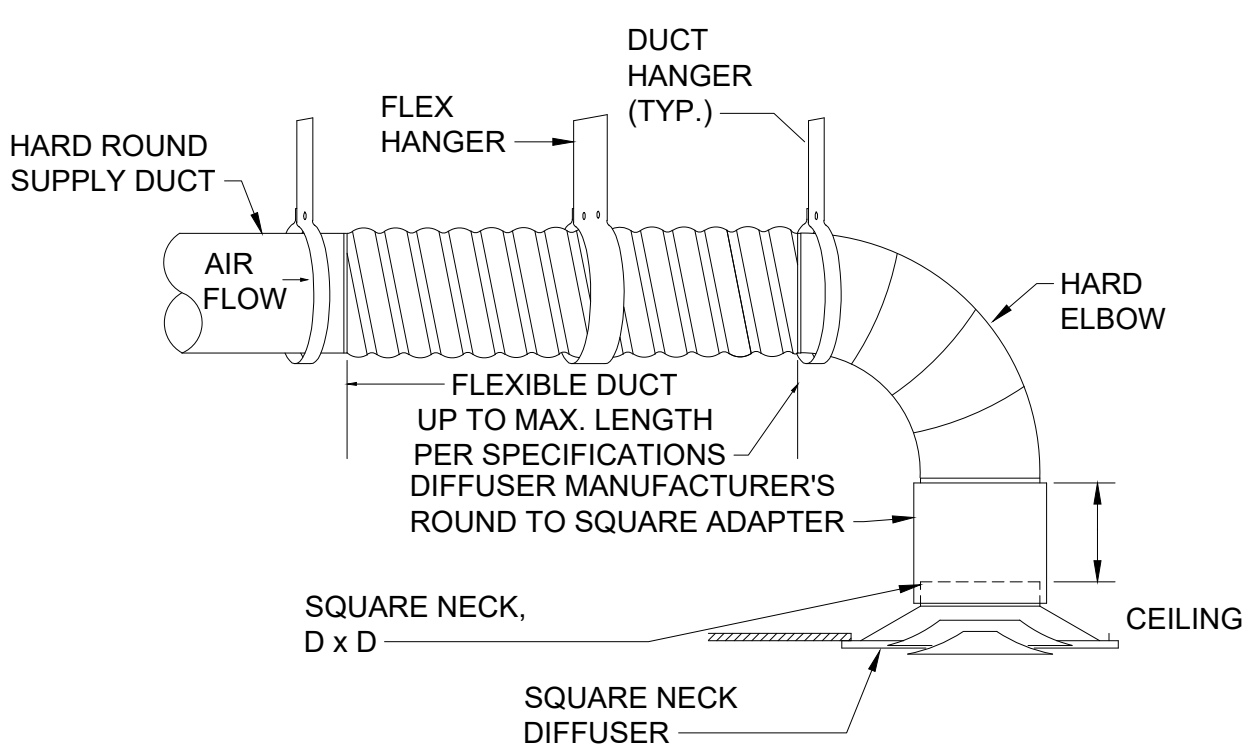
6 DUCT THROUGH ROOF DETAIL
SCALE: NONE



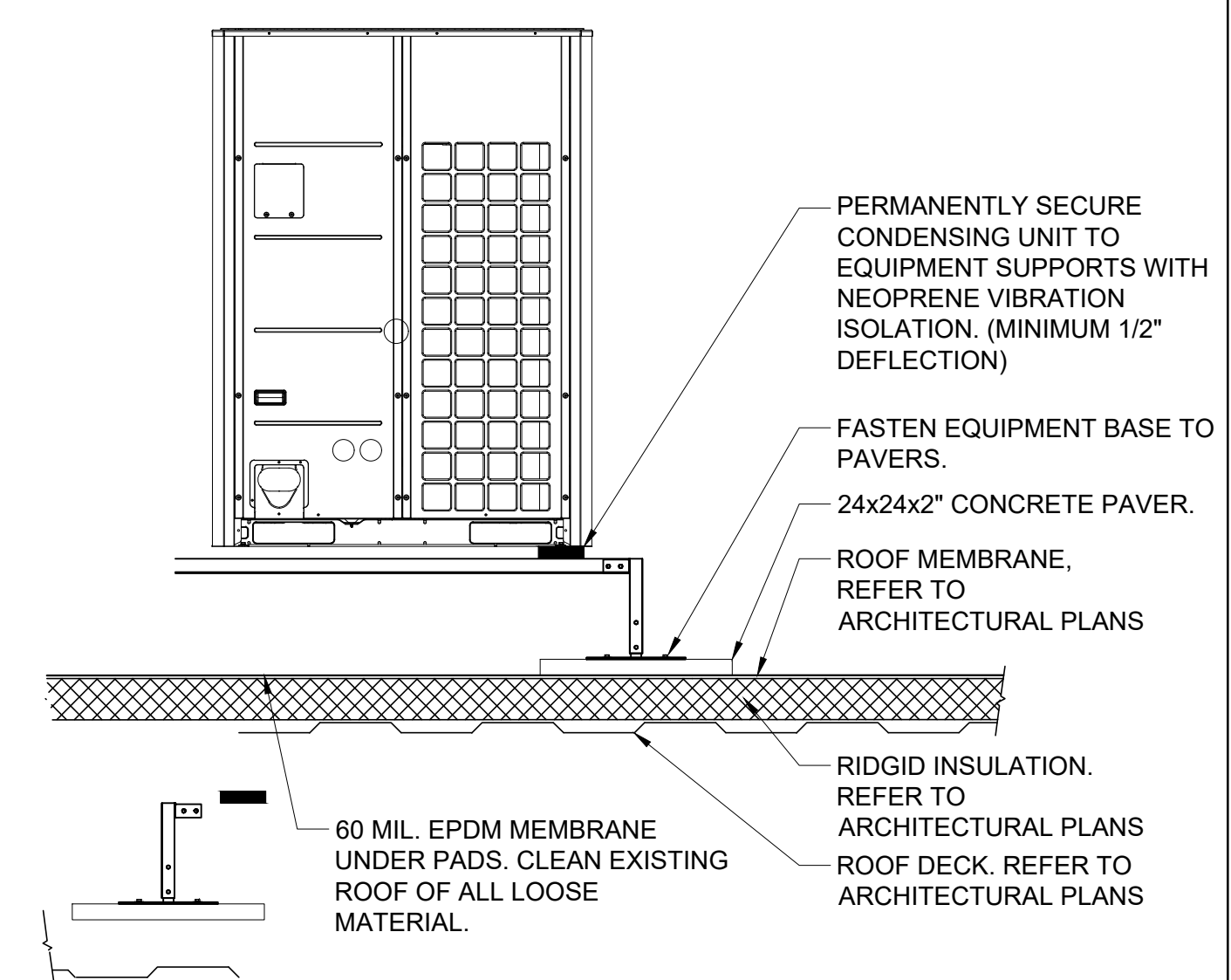
4 VRF INDOOR UNIT DETAILS
SCALE: NONE



2 SUPPLY REGISTER MOUNTING DETAIL - EXPOSED DUCT
SCALE: NONE

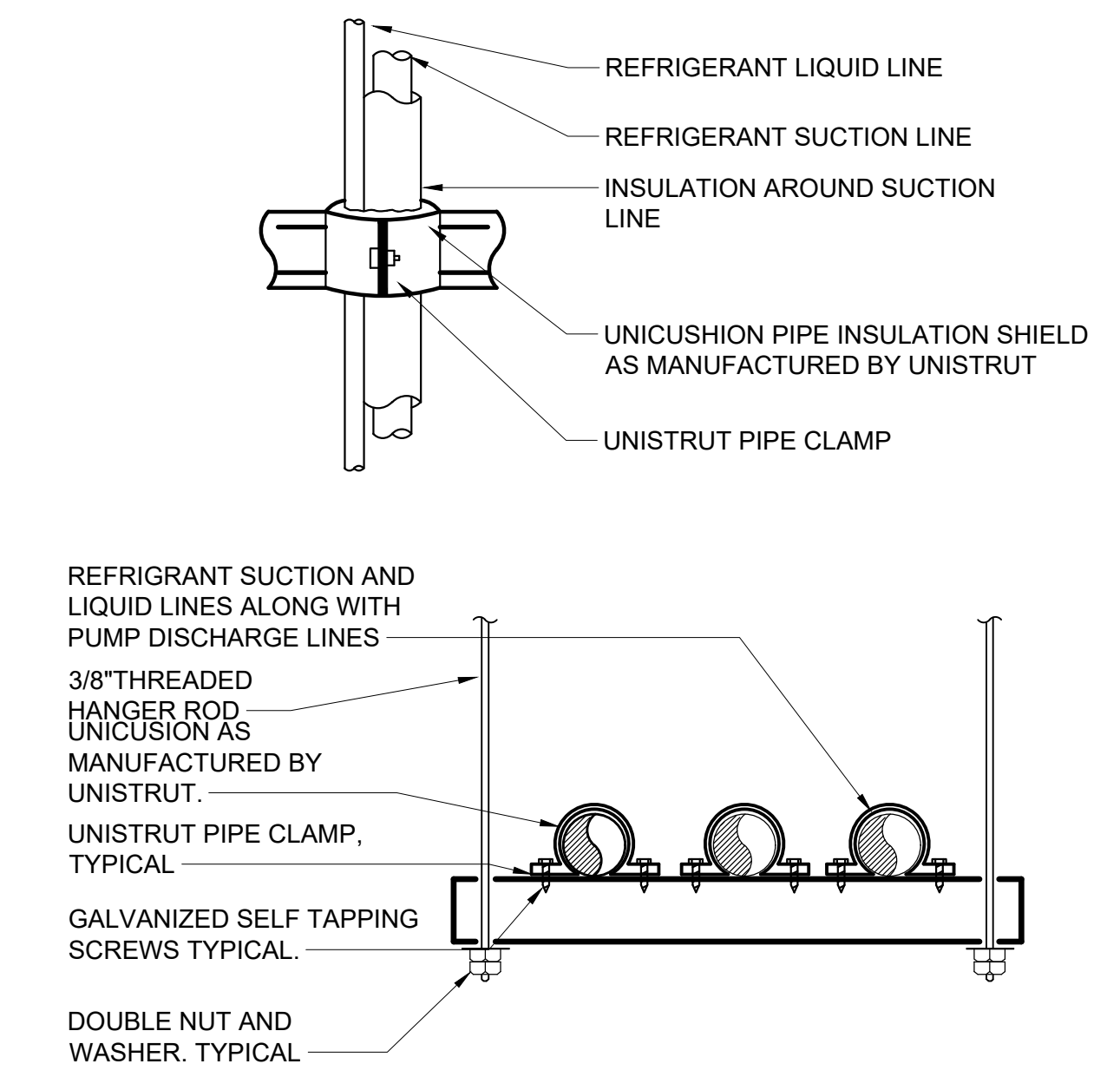


7 ROUND CONNECTION
TO SQUARE NECK DIFFUSER
SCALE: NONE



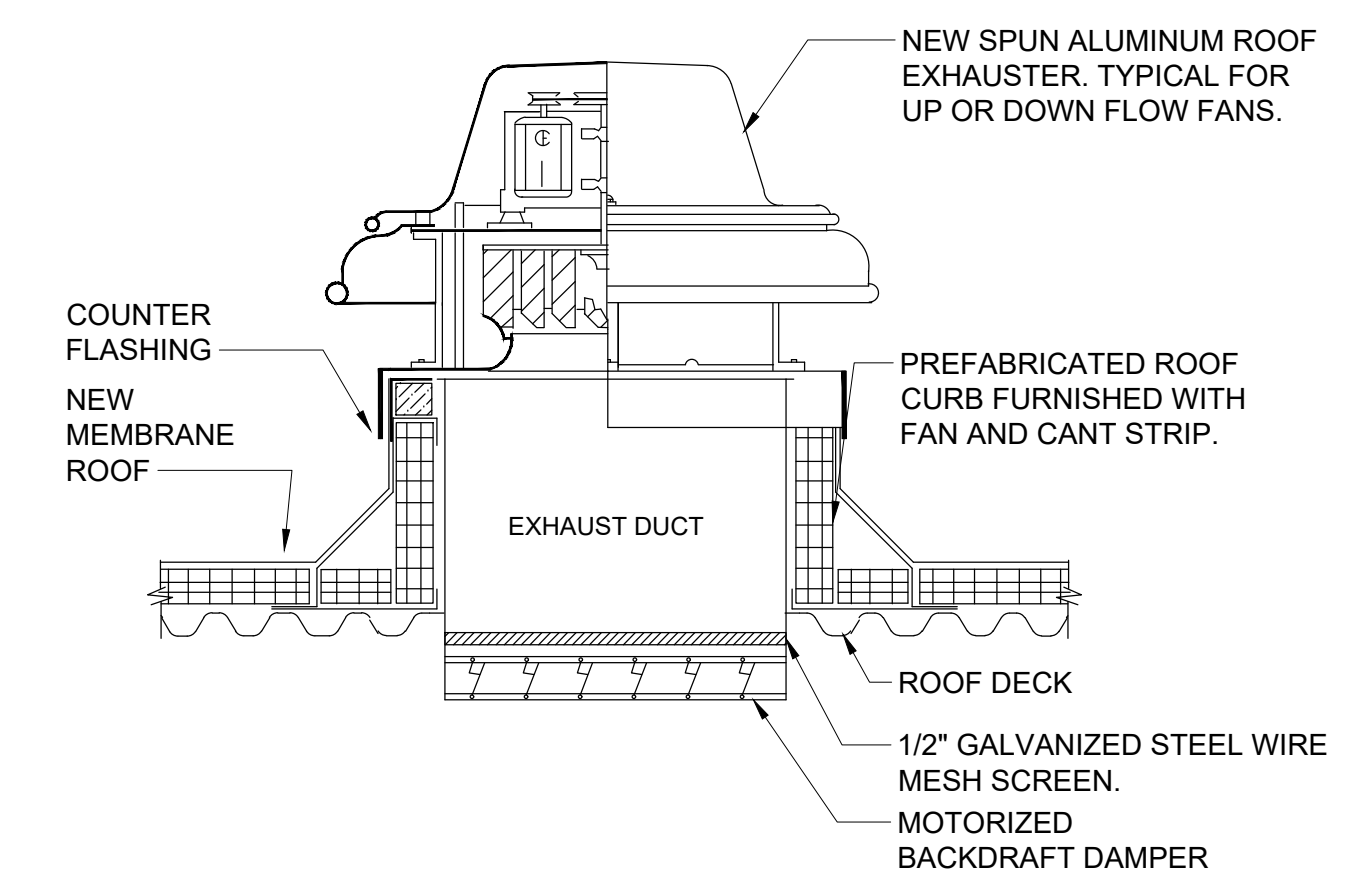
NOTES:
1.) EQUIPMENT SUPPORTS SHALL BE BIG FOOT SYSTEMS STAND.
2.) EACH PIECE OF EQUIPMENT SHALL BE MOUNTED ON CONTINUOUS SUPPORTS. EQUIPMENT SUPPORTS SHALL BE AT LEAST 6\"/>

5 SUPPORT DETAIL FOR CONDENSING
UNITS LOCATED ON ROOF
SCALE: NONE



NOTES:
1.) LIQUID AND SUCTION LINES MAY BE ROUTED TOGETHER FOR CONVENIENCE, BUT MUST BE COMPLETELY INSULATED FROM EACH OTHER. DO NOT SOLDER LIQUID AND SUCTION LINES TOGETHER. DO NOT ALLOW METAL TO METAL CONTACT.
2.) LINES SHOULD BE INSTALLED WITH AS FEW BENDS AS POSSIBLE, ALLOWING SERVICE ACCESS TO THE INDOOR COIL.
3.) USE LONG RADIUS ELBOWS WHEREVER POSSIBLE, EXCEPT IN OIL RETURN TRAPS, WHERE SHORT RADIUS ELBOWS SHOULD BE USED.
4.) SLOPE HORIZONTAL SUCTION LINES 1 INCH EVERY 20 FEET TOWARD THE OUTDOOR UNIT.

3 REFRIGERANT PIPE SUPPORT DETAIL
SCALE: NONE



NOTES:
1.) SEE ARCHITECTURAL DRAWINGS FOR FLASHING AND COUNTER FLASHING DETAILS.

1 ROOFTOP EXHAUST FAN DETAIL
SCALE: NONE

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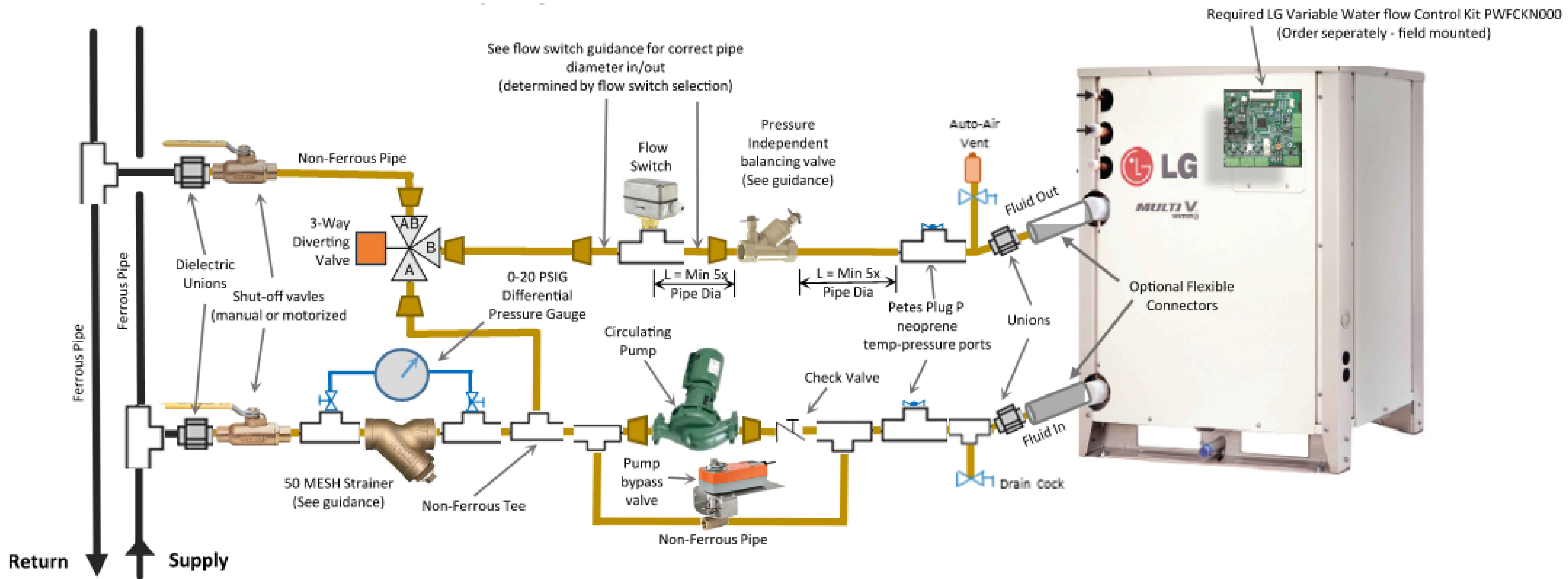
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Professional Seal

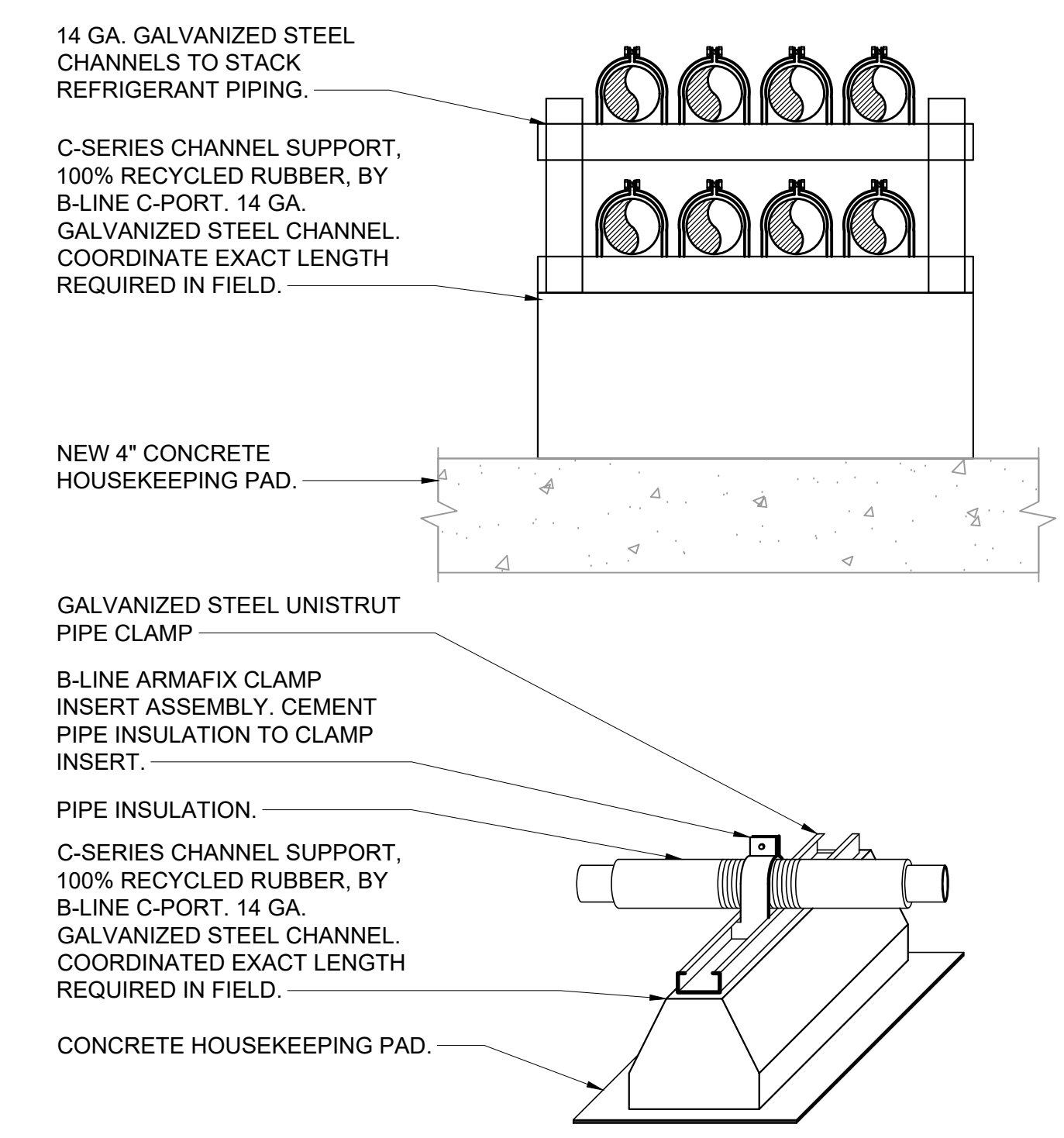
No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

**MECHANICAL
DETAILS**

Job No.	NKGD0207.00	Date	03/01/2024
Scale	AS NOTED	Drawn / Checked	HM / RG
Sheet Number	M-703		



2 WATER COOLED HEAT PUMP DETAIL
SCALE: NONE



- NOTES:
1. ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL.
2. CLAMP INSERT ASSEMBLY SHALL INCLUDE GALVANIZED STEEL PIPE CLAMP, ARMAFLEX INSULATION WITH PAINTED ALUMINUM JACKET, AND INTERIOR SUPPORTS.
3. CEMENT RUBBER SUPPORT BLOCKS TO HOUSEKEEPING PAD.

1 REFRIGERANT ON PAD PIPE SUPPORT DETAIL
SCALE: NONE

NOTE: ALL IDEAL DESIGN ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KG+D ARCHITECTS, PC AND ARE NOT TO BE REPRODUCED OR USED IN ANY PROJECT WITHOUT THE WRITTEN PERMISSION OF KG+D ARCHITECTS, PC. NONE OF SUCH IDEAL DESIGN ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF KG+D ARCHITECTS, PC.

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
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Sheet Title

**MECHANICAL
DETAILS**

Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

M-704

SYMBOLS AND ABBREVIATIONS			SYMBOLS AND ABBREVIATIONS			SYMBOLS AND ABBREVIATIONS			GENERAL NOTES (CONT'D)		
SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
	-	CONDUIT AND WIRING		DGP	DATA GATHERING PANEL		DEM.	DEMOLISH AND REMOVE			
	-	CONDUIT & WIRING TO BE REMOVED UON		FCS	FIRE COMMAND STATION		DISC	DISCONNECT			7.) CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
	-	BURIED CONDUIT		FSS	FIRE SUPPRESSION SYSTEM PANEL		DIM	DIMMER			8.) WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
	-	OVERHEAD CONDUCTORS		R	FIRE ALARM RELAY		DWG	DRAWING			9.) INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P		EOL	END OF LINE RESISTOR		ELEV	ELEVATOR			10.) CEILING MOUNTED RECEPTACLES SHALL BE MOUNTED FLUSH TO CEILING.
	-	MULTI-POLE HOMERUN		-	WALL MOUNTED PUBLIC ADDRESS SPEAKER		EMT	ELECTRICAL METALLIC TUBING			11.) UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
	-	ELECTRICAL EQUIPMENT AS INDICATED		-	PUBLIC ADDRESS TELEPHONE		EM	EMERGENCY			12.) DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.
	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON		SP	CEILING MOUNTED PUBLIC ADDRESS SPEAKER		EX.	EXISTING TO REMAIN			13.) INCLUDE IN BASE BID THE FOLLOWING 1P-20A CIRCUITS ON EACH LEVEL (150' LENGTH EACH) FOR HVAC SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 23 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:
	-	ELECTRIC METER		S	CEILING MOUNTED SPHERICAL TYPE LOUD SPEAKER		F	FLOOR			PARKING - PSPA-45 FIRST FLOOR - PSA-25, PN1A-27 SECOND FLOOR - PSA-57
	-	JUNCTION BOX		B	FIRE ALARM BELL		FBO	FURNISHED BY OTHERS			
	-	FUSED DISCONNECT SWITCH		C	CAMERA		FC	FAN COIL UNIT			
	-	UNFUSED DISCONNECT SWITCH		TC	TIME CLOCK		GEN	GENERATOR			
	-	COMBINATION MOTOR STARTER/FUSED DISC.		CR	CARD READER		GFI	GROUND FAULT INTERRUPTER			
	-	MOTOR STARTER		DA	DOOR ALARM		HP	HORSEPOWER			
	-	MOTOR		ES	ELECTRIC DOOR STRIKE		HVAC	HEATING VENTILATION AIR CONDITIONING			
	-	BATTERY PACK EMERGENCY LIGHT FIXTURE		MD	SECURITY MOTION DETECTOR		IG	ISOLATED GROUND			
	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW		KP	KEY PAD		IMC	INTERMEDIATE METAL CONDUIT			
	-	SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		PA	PANIC ALARM		KVA	KILO-VOLT-AMPERE			
	-	THREE WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		PTZ	SECURITY CAMERA PTZ - PAN, TILT, ZOOM		KW	KILO-WATT			
	-	FOUR WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		SAH	SECURITY ALARM HORN		MAX	MAXIMUM			
	-	DIMMER SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		PB	PUSHBUTTON		MCB	MAIN CIRCUIT BREAKER			
	-	MOTOR RATED TOGGLE SWITCH		CFA	CALL FOR AID PULL STATION		MCC	MOTOR CONTROL CENTER			
	-	KEY OPERATED SINGLE POLE SWITCH		CFAV	CALL FOR AID A/V DEVICE		MIN	MINIMUM			
	-	SPEED CONTROLLER (FBO)		HD	ELECTRIC HAND DRYER		MLO	MAIN LUG ONLY			
	-	WALL MOUNTED OCCUPANCY SENSOR		EPO	EMERGENCY POWER OFF SWITCH		MTS	MANUAL TRANSFER SWITCH			
	-	CEILING MOUNTED OCCUPANCY SENSOR		RASP	RESCUE ASSIST. SYSTEM MASTER STATION		NIC	NIGHT IN CONTRACT			
	-	DUPLEX RECEPTACLE		RRS	REMOTE RESCUE STATION		NL	NIGHT LIGHT			
	-	DOUBLE DUPLEX RECEPTACLE		CB	CIRCUIT BREAKER		NTS	NOT TO SCALE			
	-	SPECIAL RECEPTACLE		ECB	ENCLOSED CIRCUIT BREAKER		OH	OVERHEAD			
	-	TELEPHONE OUTLET		FS	FUSED SWITCH		P	POLE			
	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)		GEN	GENERATOR		PBO	PROVIDED BY OTHERS			
	-	COMBINATION TELEPHONE/DATA OUTLET		GND	GROUND AS PER LOCAL CODE		PNL	PANEL			
	-	COMBINATION DATA & TV OUTLET		GB	GROUND BAR		PT	PRESSURE TREATED			
	-	TV OUTLET		GR	GROUND ROD		PVC	POLY VINYL CHLORIDE			
	-	FURNITURE SYSTEM POWER FEED		TS	TRANSFER SWITCH		REL.	REMOVE AND RELOCATE			
	-	FURNITURE SYSTEM COMMUNICATION FEED		XFMR	TRANSFORMER		RGS	RIGID GALVANIZED STEEL			
	-	FIRE ALARM MANUAL PULL STATION		CT	CURRENT TRANSFORMER		RTU	ROOF TOP UNIT			
	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE)		UP	UTILITY POLE		SCH	SCHEDULE			
	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE)		WM	WATER MAIN		SPD	SURGE PROTECTION DEVICE			
	-	FIRE ALARM STROBE 15/75 CD		BBGS	BOILER BREAK GLASS STATION		SW	SWITCH(ES)			
	-	FIRE ALARM STROBE 110 CD		NC	NORMALLY CLOSED CONTACTS		UG	UNDERGROUND			
	-	CARBON MONOXIDE DEVICE (15/75 CD - STROBE)		NO	NORMALLY OPEN CONTACTS		UON	UNLESS OTHERWISE NOTED			
	-	SMOKE DETECTOR, EL - ELEVATOR LOBBY; SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING		CV	CONTROL VALVE		UV	UNIT VENTILATOR			
	SB	FIRE ALARM DEVICE, SB - SOUNDER BASE FOR SMOKE OR CARBON MONOXIDE DETECTOR		MD	MOTORIZED DAMPER		VIF	VERIFY IN FIELD			
	-	BEAM SMOKE DETECTOR RECEIVER		SD OR CFSD	SMOKE DAMPER		V	VOLT(S)			
	-	BEAM SMOKE DETECTOR TRANSMITTER		UH	UNIT HEATER		WG	WIRE GUARD			
	-	DUCT MOUNTED SMOKE DETECTOR		RA	RESCUE ASSISTANCE		WH	WATER HEATER			
	-	HEAT DETECTOR		DDC	DOUBLE DOOR CONTACT		WP	WEATHERPROOF			
	-	CARBON MONOXIDE DETECTOR		DC	DOOR CONTACT						
	-	NATURAL GAS DETECTOR		A	AIR CONDITIONER						
	-	FIRE ALARM PRESSURE SWITCH		ACC	AIR CONDITIONER CONDENSER						
	-	FIRE ALARM TAMPER SWITCH		AFF	ABOVE FINISHED FLOOR						
	-	FIRE ALARM WATER FLOW SWITCH		AF	AMPERAGE OF FUSE						
	-	FIRE WATER TANK LOW TEMP SENSOR		AS	AMPERAGE OF SWITCH						
	-	FIRE WATER TANK LOW WATER		ATS	AUTOMATIC TRANSFER SWITCH						
	-	FIRE WATER TANK HIGH WATER		AWG	AMERICAN WIRE GAUGE						
	-	DRY VALVE LOW AIR		AV	AUDIO VISUAL						
	-	DRY VALVE HIGH AIR		BCW	BARE COPPER WIRE						
	-	FIRE ALARM WARDEN STATION		BLDG	BUILDING						
	-	FIRE ALARM DOOR RELEASE		BMS	BUILDING MANAGEMENT SYSTEM						
	-	FIRE ALARM ANNUNCIATOR PANEL		C	CONDUIT						
	CM	FIRE ALARM CONTROL MODULE		CD	CANDELA						
	MM	FIRE ALARM MONITORING MODULE		CKT	CIRCUIT						
	FACP	FIRE ALARM CONTROL PANEL		CLG	CEILING						
	BPS	BOOSTER POWER SUPPLY		COL	COLUMN						
				CU	COPPER						
				CUH	CABINET UNIT HEATER						

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET - MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10632
914.747.2800

8 West 38th Street,
Suite 501
New York, NY 10018
646.849.4110

olace.com

CONSTRUCTION DOCUMENTS

GENERAL NOTES (CONT'D)

7.) CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.

8.) WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.

9.) INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.

10.) CEILING MOUNTED RECEPTACLES SHALL BE MOUNTED FLUSH TO CEILING.

11.) UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.

12.) DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.

13.) INCLUDE IN BASE BID THE FOLLOWING 1P-20A CIRCUITS ON EACH LEVEL (150' LENGTH EACH) FOR HVAC SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 23 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:

PARKING - PSPA-45
FIRST FLOOR - PSA-25, PN1A-27
SECOND FLOOR - PSA-57

DEFINITION OF TERMS

1.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "THE TOWN OF HARRISON, NY" IS INTENDED.

2.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "KG&D ARCHITECTS, P.C." IS INTENDED.

3.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.

4.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "CON EDISON" IS INTENDED.

5.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT MUST BE UNDERSTOOD THAT "OPTIMUM" IS INTENDED.

6.) "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.

7.) "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.

8.) "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.

9.) "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.

10.) THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:

A.) "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.

B.) "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.

C.) "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.

D.) "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

TRENCHING NOTES

1. CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES THAT ARE NOT PART OF N.Y. STATE "CODE 753" PRIOR TO DIGGING.

2. ALL EXCAVATING IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT, PIPES AND CONDUITS SHALL BE PERFORMED BY HAND.

3. ANY AREA/PLANTS OR LANDSCAPING OR PAVEMENTS DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.

4. ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

5. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA. EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-962-7962.

LOW VOLTAGE SYSTEMS NOTES

1.) THIS CONTRACTOR IS RESPONSIBLE FOR ALL RACEWAYS AND WIRING ASSOCIATED WITH LOW VOLTAGE SYSTEMS. THE LOW VOLTAGE SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO, AUDIOVISUAL, ACCESS CONTROL, CCTV, INTRUDER ALARM, DATA AND COMMUNICATION SYSTEMS. THIS CONTRACTOR SHALL REFER TO THE "AVV" AND "SE" SERIES DRAWINGS AND DETAILS FOR QUANTITIES, SIZES AND SPECIFICATION OF RACEWAYS AND WIRING. THIS CONTRACTOR SHALL PROVIDE DATA RACKS AND PATCH PANELS FOR TERMINATING SYSTEM WIRING. TEST AND LABEL EACH END OF WIRING.

2.) HEAD-END SWITCHES, SENSORS AND SYSTEM COMPONENTS SHALL BE BY OTHERS.

3.) ALL LADDER RACKS, TROUGHS AND ASSOCIATED COMPONENTS WITHIN IT AND AV ROOMS ARE BY THIS CONTRACTOR, AS DETAILED IN THE "AVV" AND "SE" SERIES DRAWINGS.

4.) FOR EACH WALL MOUNTED LOW VOLTAGE SYSTEM OUTLET, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE BY THIS CONTRACTOR. JUNCTION BOXES SHALL BE RECESSED WITHIN THE NEW BUILDING CONSTRUCTION, COORDINATE WITH GENERAL CONSTRUCTION CONTRACTOR.

5.) THIS CONTRACTOR SHALL WIRE CAT6 CABLE TO EACH COMMUNICATION POINT SHOWN, SEE PLAN FOR QUANTITIES. TERMINATIONS AT DATA POINT AND PATCH PANEL BY THIS CONTRACTOR, RJ45 JACKS AND COVER PLATES TO BE PROVIDED BY THIS CONTRACTOR. TEST AND LABEL EACH END OF CAT6 CABLE.

6.) FIBER OPTIC WIRING BETWEEN DATA ROOM 111 AND DATA ROOM 205A IS BY THIS CONTRACTOR. PROVIDE A PLENUM RATED MULTI-MODE 12 STRAND FIBER OPTIC CABLE TERMINATED WITH LC CONNECTORS.

NOTES:

1.) EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED.

2.) CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100' AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AWG. FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER.

TYPICAL BRANCH CIRCUIT WIRING LEGEND

→ 2-#12 & 1-#12 GND (1-1P-20A OR 1-1P-15A CB)

→ 3-#12 & 1-#12 GND (3P-20A OR 3P-15A CB)

→ 2-#12 & 1-#12 GND (2P-20A OR 2P-15A CB)

→ 15 → LIGHT FIXTURE TYPE

→ 15 → SWITCH CONTROL

→ 15 → LIGHT FIXTURE

→ 15 → CIRCUIT #

GENERAL NOTES

1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).

2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.

3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.

4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY.

5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".

6.) ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.

7	10/09/2024	CONFORMED SET
4	09/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

Sheet Title

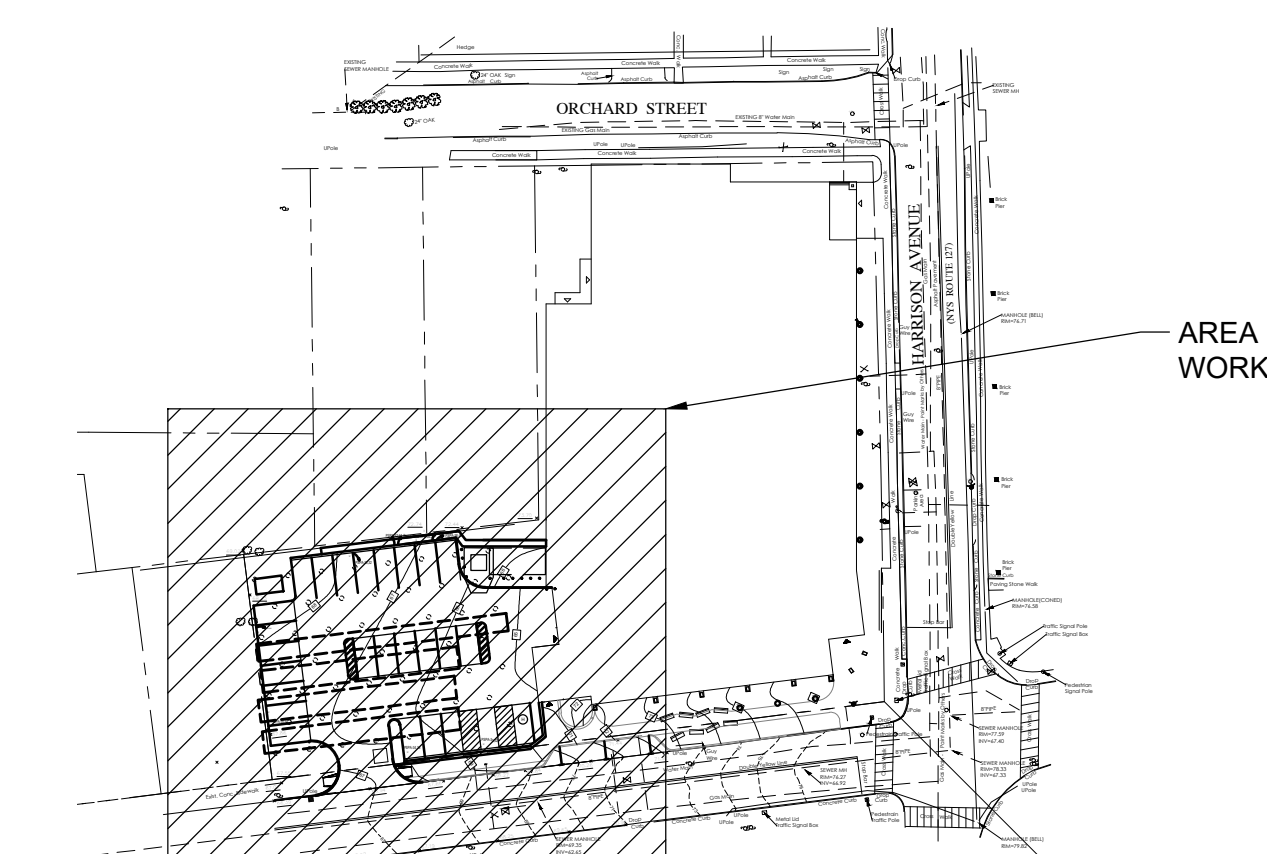
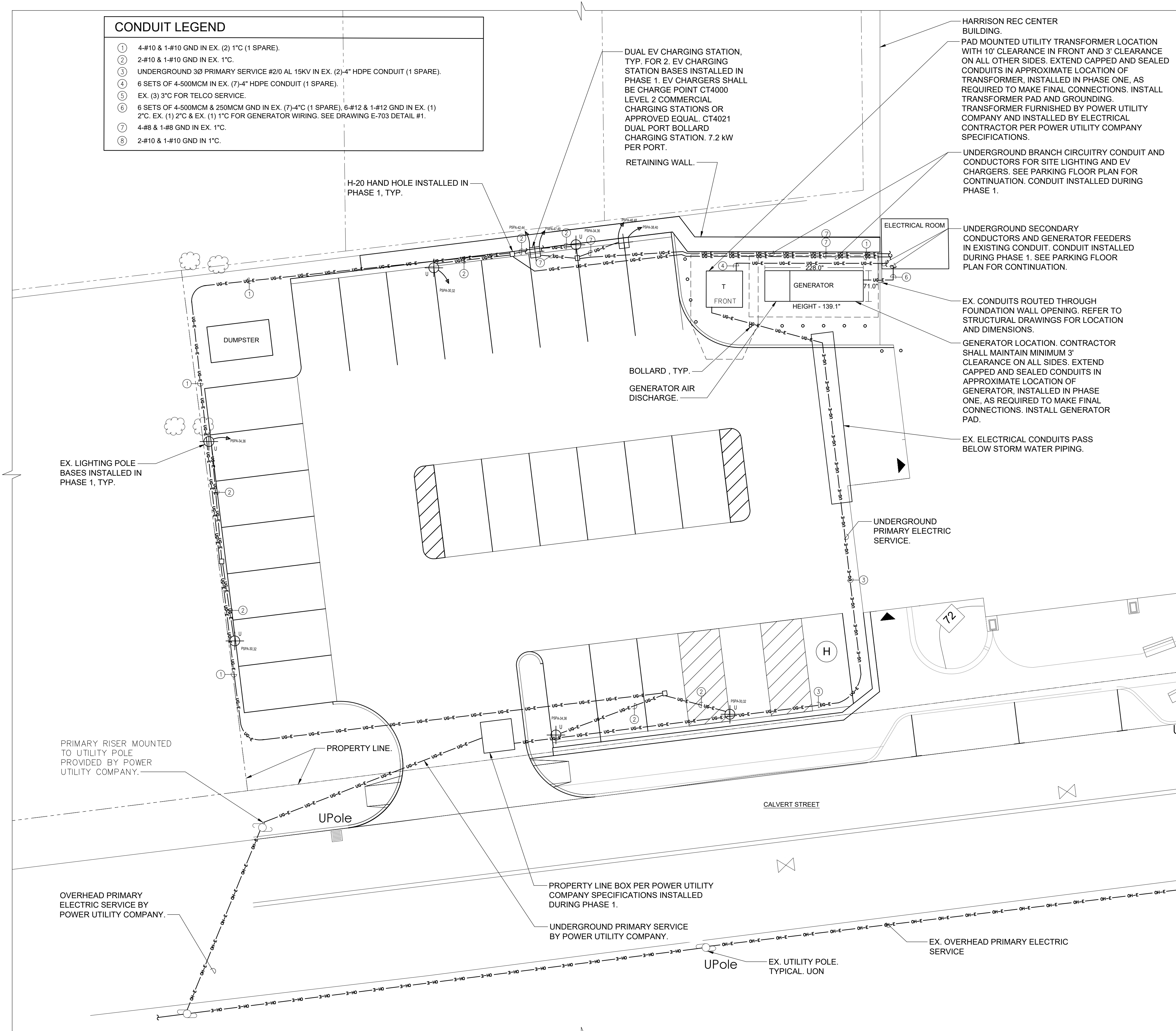
ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS

Job No. NKGD0207.00 Date 03/01/2024

Scale AS NOTED Drawn / Checked JJ / ML/DS

Sheet Number

E-001



1 KEY PLAN
SCALE: NONE
NORTH

2 ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"
NORTH

- NOTES:
1.) ALL ELECTRICAL CONDUITS ARE ROUTED UNDERGROUND, UON.
2.) ALL SPARE ELECTRICAL CONDUITS SHALL BE PROVIDED WITH DRAGLINES.
3.) ALL CONDUITS SHALL BE SCHEDULE 40 PVC, UON.

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Sheet Title

**ELECTRICAL
SITE PLAN**

Job No. NKGD0207.00 Date 03/01/2024

Scale AS NOTED Drawn / Checked JJ / ML/DS

Sheet Number

E-010

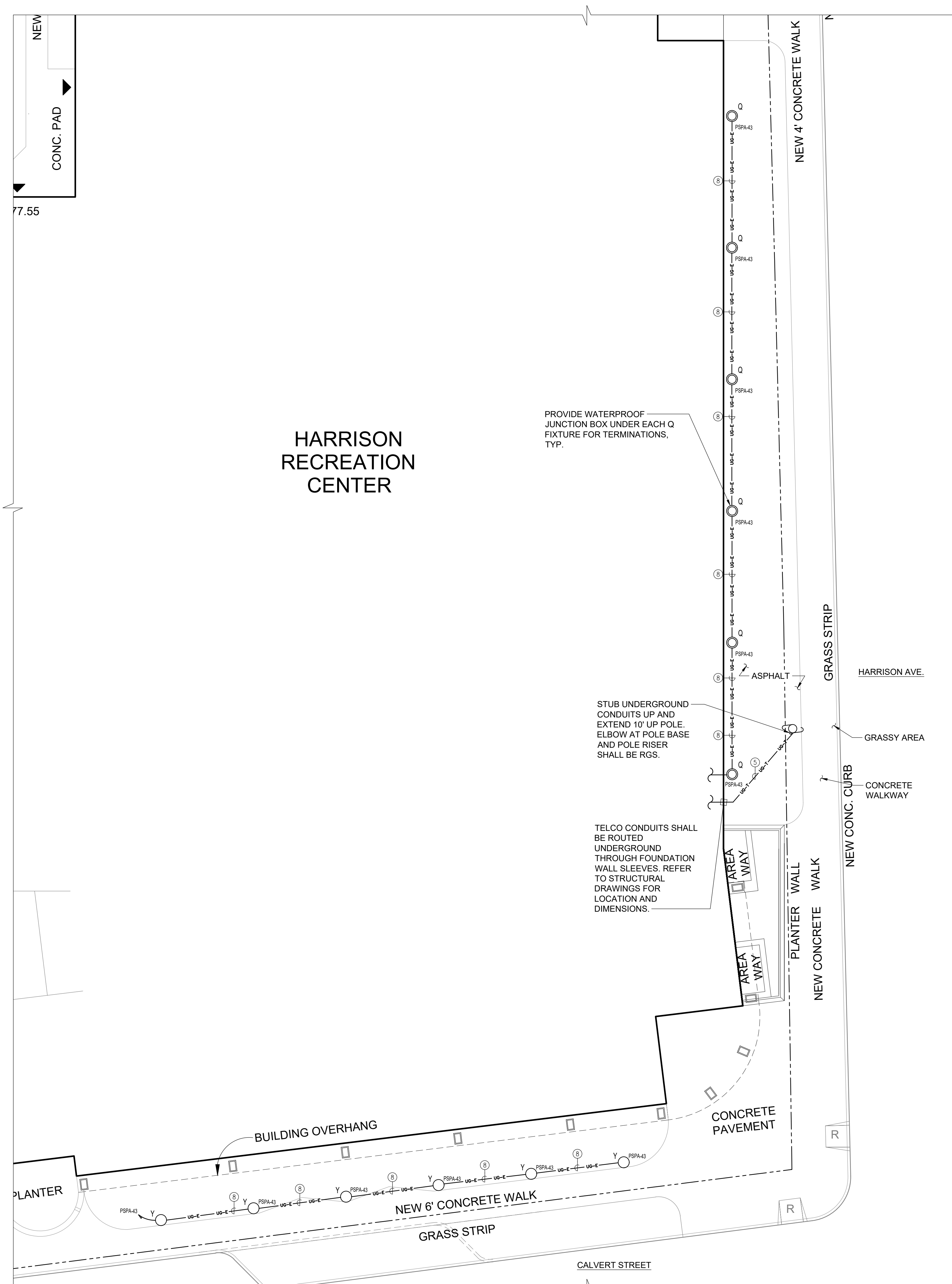
HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGARCHITECTS.COM

OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 501
New York, NY 10018
646.849.4110
olace.com

CONSTRUCTION DOCUMENTS

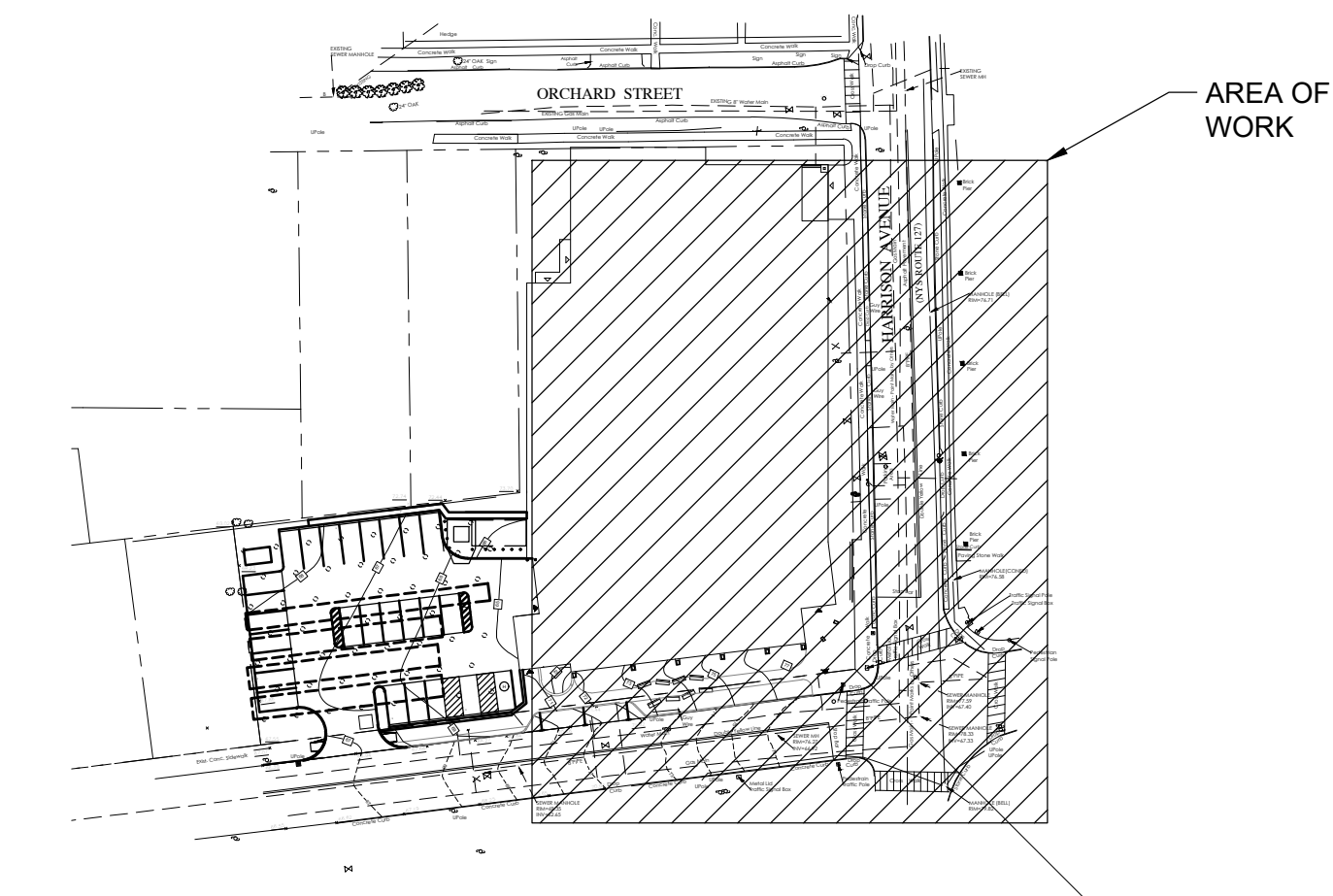


HARRISON RECREATION CENTER

PROVIDE WATERPROOF JUNCTION BOX UNDER EACH Q FIXTURE FOR TERMINATIONS, TYP.

STUB UNDERGROUND CONDUITS UP AND EXTEND 10' UP POLE. ELBOW AT POLE BASE AND POLE RISER SHALL BE RGS.

TELCO CONDUITS SHALL BE ROUTED UNDERGROUND THROUGH FOUNDATION WALL SLEEVES. REFER TO STRUCTURAL DRAWINGS FOR LOCATION AND DIMENSIONS.



1 KEY PLAN
SCALE: NONE
NORTH

2 ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"
NORTH

- NOTES:
- 1.) ALL ELECTRICAL CONDUITS ARE ROUTED UNDERGROUND, UON.
 - 2.) ALL SPARE ELECTRICAL CONDUITS SHALL BE PROVIDED WITH DRAGLINES.
 - 3.) ALL CONDUITS SHALL BE SCHEDULE 40 PVC, UON.
 - 4.) SEE DRAWING E-010 FOR CONDUIT LEGEND.

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Sheet Title

ELECTRICAL SITE PLAN

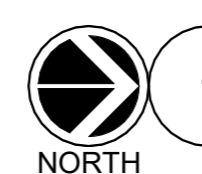
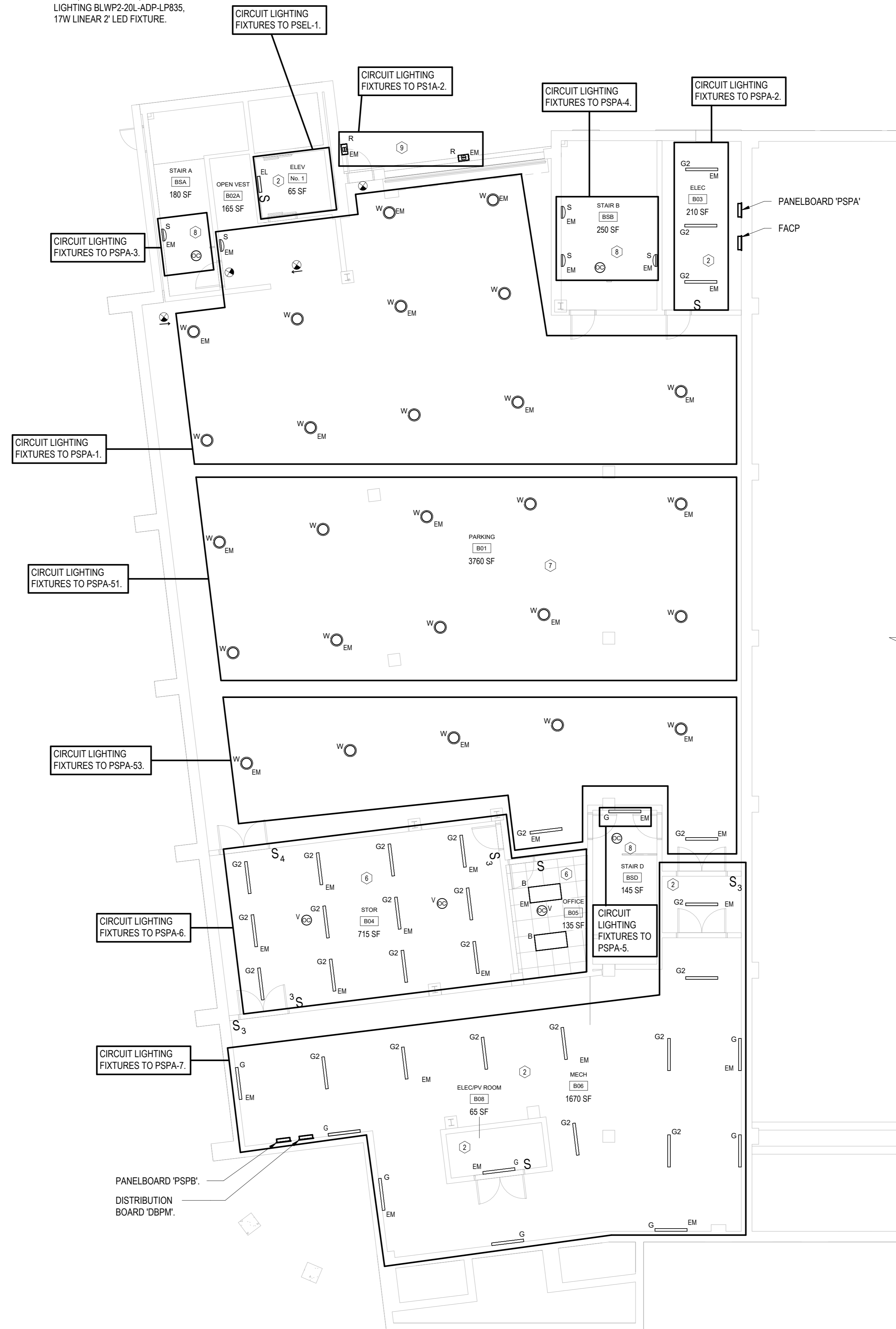
Job No.	Date
NKGD0207.00	03/01/2024
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AS NOTED	JJ / ML/DS

Sheet Number
E-011

LIGHTING CONTROL LEGEND:

- 1 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
- 2 - LINE VOLTAGE MANUAL ON/OFF WALL SWITCH.
- 3 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- 4 - LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR.
- 5 - TIMELOCK WITH OCCUPANCY SENSOR AFTER HOURS AND MAIN SWITCH IN RECEPTION AREA.
- 6 - LOW VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
- 7 - TIMELOCK WITH MANUAL OVERRIDE SWITCH.
- 8 - TIMELOCK CONTROL. LIGHTS SHALL BE AT FULL BRIGHTNESS DURING BUSINESS HOURS. AFTER HOURS LIGHTS SHALL AUTOMATICALLY DIM TO 50% AND RETURN TO FULL BRIGHTNESS WHEN OCCUPANCY IS DETECTED VIA OCCUPANCY SENSORS.
- 9 - OUTDOOR PHOTOSENSOR CONTROL.

ELEVATOR LIGHTING NOTES:
1.) WALL MOUNTED ELEVATOR PIT LIGHT, VAPORPROOF, LITHONIA LIGHTING BLWP2-20L-ADP-LP835, 17W LINEAR 2' LED FIXTURE.



ELECTRICAL PARKING LEVEL REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

Key Plan

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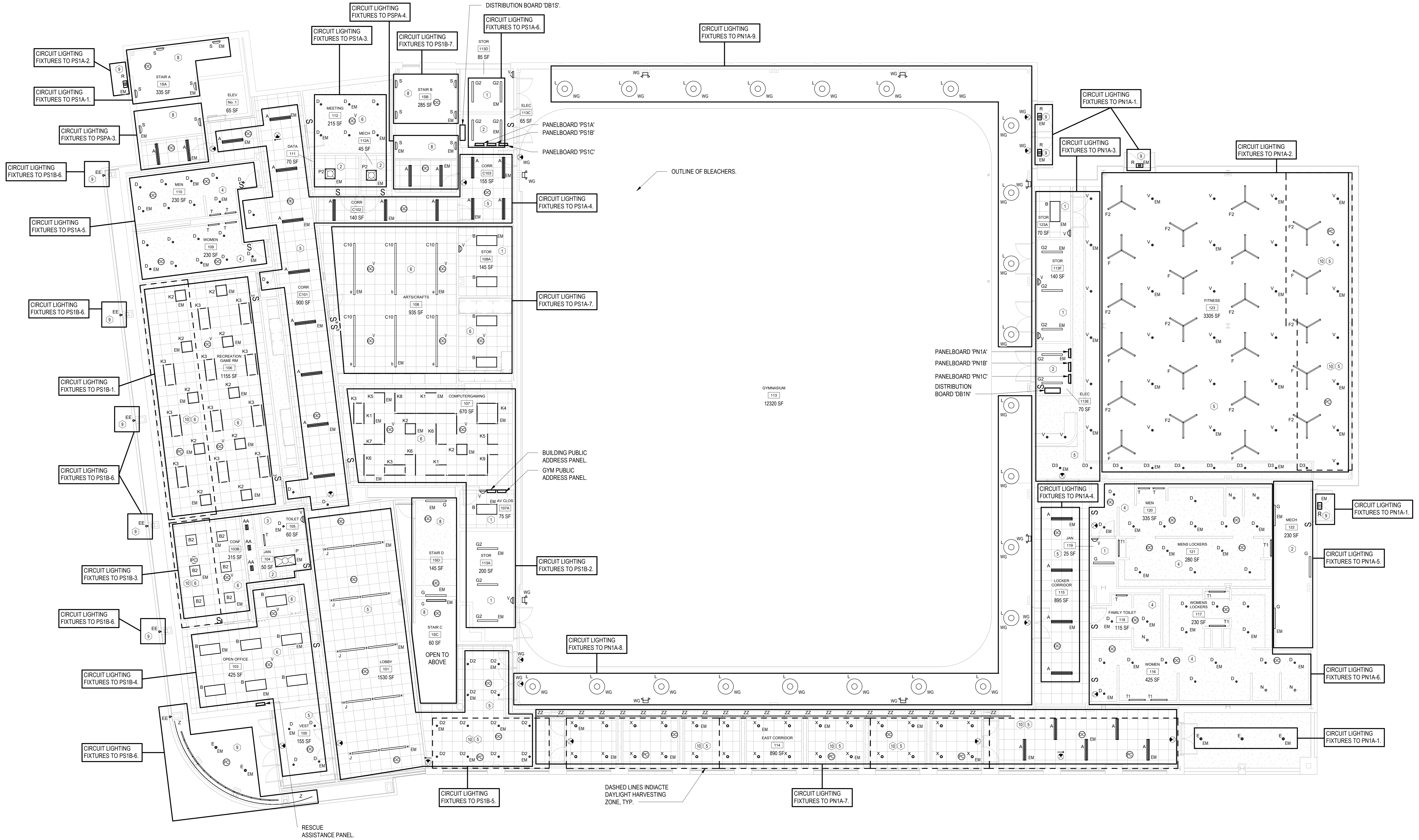
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Sheet Title	
ELECTRICAL PARKING REFLECTED CEILING PLAN	
Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML
Sheet Number	
E-201	



- LIGHTING CONTROL LEGEND:**
- 1 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
 - 2 - LINE VOLTAGE MANUAL ON/OFF WALL SWITCH.
 - 3 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
 - 4 - LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR.
 - 5 - TIMECLOCK WITH OCCUPANCY SENSOR AFTER HOURS AND MAIN SWITCH IN RECEPTION AREA.
 - 6 - LOW VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
 - 7 - PHOTOCELL AND TIMECLOCK WITH MANUAL OVERRIDE SWITCH.
 - 8 - TIMECLOCK CONTROL, LIGHTS SHALL BE AT FULL BRIGHTNESS DURING BUSINESS HOURS, AFTER HOURS LIGHTS SHALL AUTOMATICALLY DIM TO 50% AND RETURN TO FULL BRIGHTNESS WHEN OCCUPANCY IS DETECTED VIA OCCUPANCY SENSORS.
 - 9 - OUTDOOR PHOTOSENSOR CONTROL.
 - 10 - DAYLIGHT ZONE.

ELECTRICAL FIRST FLOOR REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"
 NORTH

Key Plan

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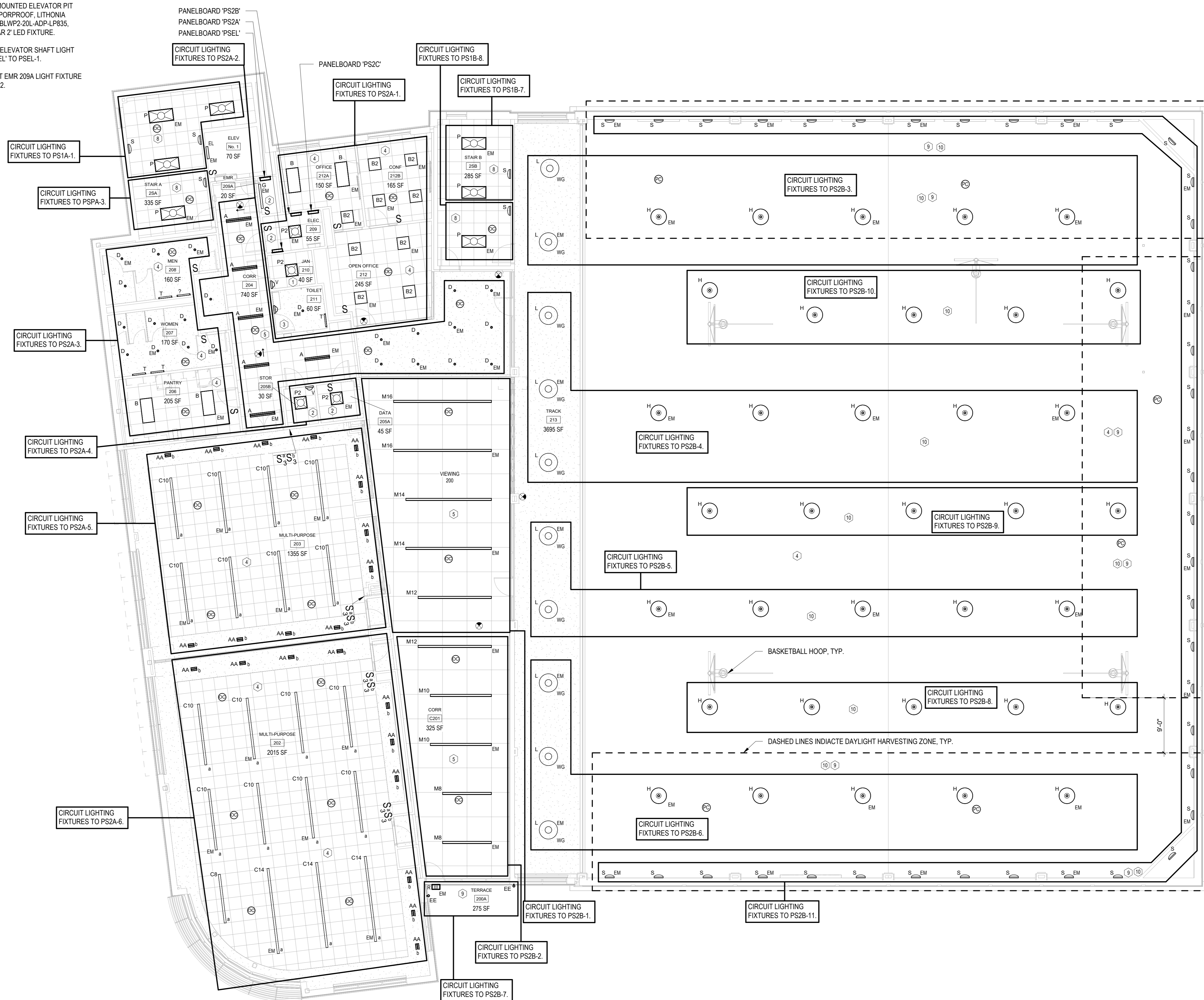
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No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML
Sheet Number	E-202

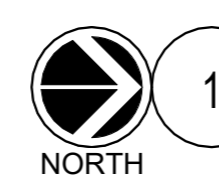
ELEVATOR LIGHTING NOTES:

- 1.) WALL MOUNTED ELEVATOR PIT LIGHT, VAPORPROOF, LITHONIA LIGHTING BLWP2-20L-ADP-LP335, 17W LINEAR Z LED FIXTURE.
- 2.) CIRCUIT ELEVATOR SHAFT LIGHT FIXTURE 'EL' TO PSEL-1.
- 3.) CIRCUIT EMR 209A LIGHT FIXTURE TO PSEL-12.



LIGHTING CONTROL LEGEND:

- 1 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
- 2 - LINE VOLTAGE MANUAL ON/OFF WALL SWITCH.
- 3 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- 4 - LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR.
- 5 - TIMECLOCK WITH OCCUPANCY SENSOR AFTER HOURS AND MAIN SWITCH IN RECEPTION AREA.
- 6 - LOW VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
- 7 - PHOTOCELL AND TIMECLOCK WITH MANUAL OVERRIDE SWITCH.
- 8 - TIMECLOCK CONTROL LIGHTS SHALL BE AT FULL BRIGHTNESS DURING BUSINESS HOURS. AFTER HOURS LIGHTS SHALL AUTOMATICALLY DIM TO 50% AND RETURN TO FULL BRIGHTNESS WHEN OCCUPANCY IS DETECTED VIA OCCUPANCY SENSORS.
- 9 - DAYLIGHT ZONE.
- 10 - MANUAL ON/OFF SWITCH WITH DIMMING AND TIMECLOCK CONTROL.



ELECTRICAL SECOND FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

Key Plan

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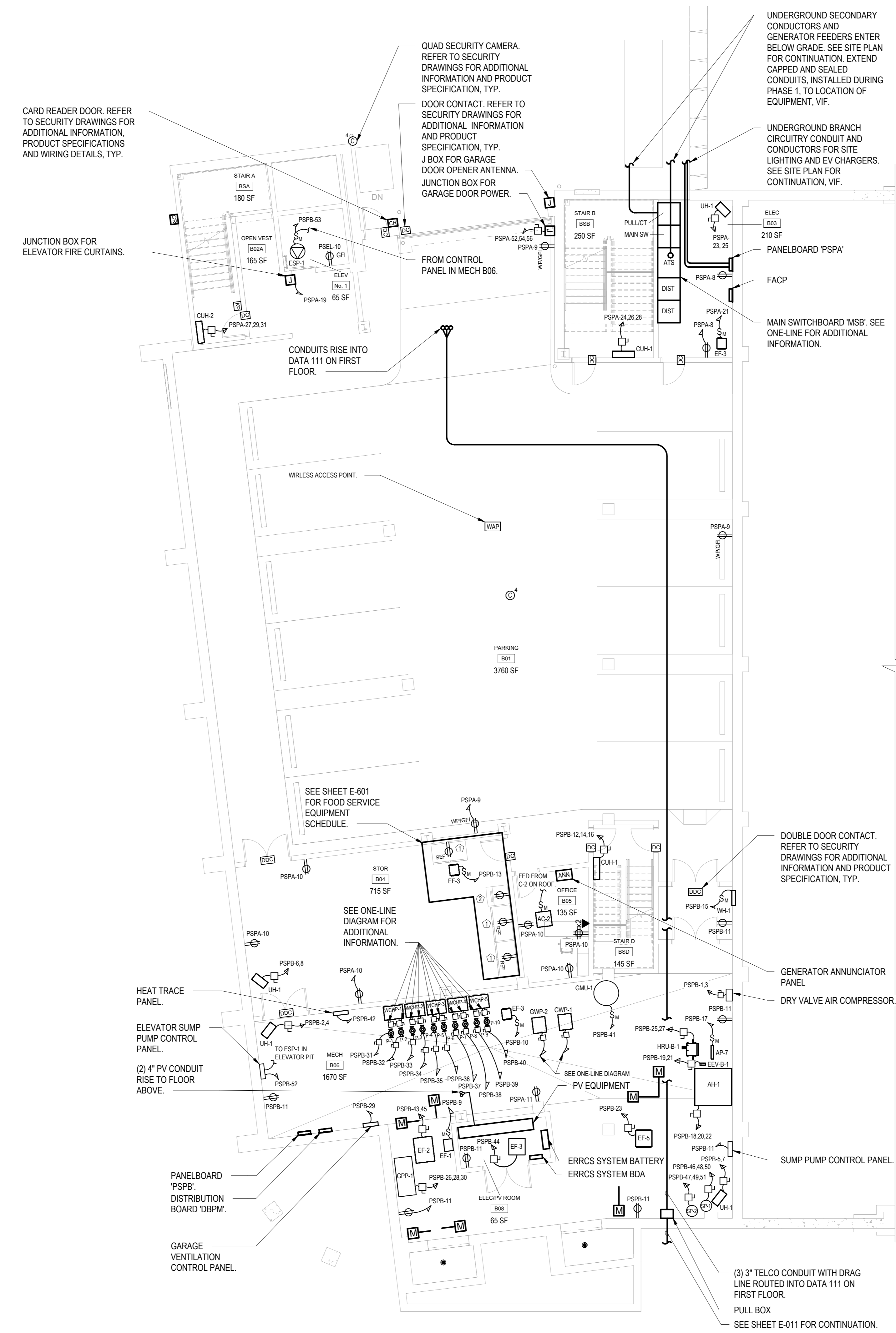
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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

ELECTRICAL SECOND FLOOR REFLECTED CEILING PLAN

Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML
Sheet Number	



ELECTRICAL PARKING FLOOR PLAN

SCALE: 1/8" = 1'-0"

NOTES:
1) CIRCUIT ALL MOTORIZED DAMPERS TO 'PSPB-24'.

Key Plan

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

**ELECTRICAL
PARKING FLOOR
PLAN**

Job No. NKGD0207.00 Date 02/21/20

Scale AS NOTED Drawn / Checked VB / ML

Sheet Number

E-301

Key Plan

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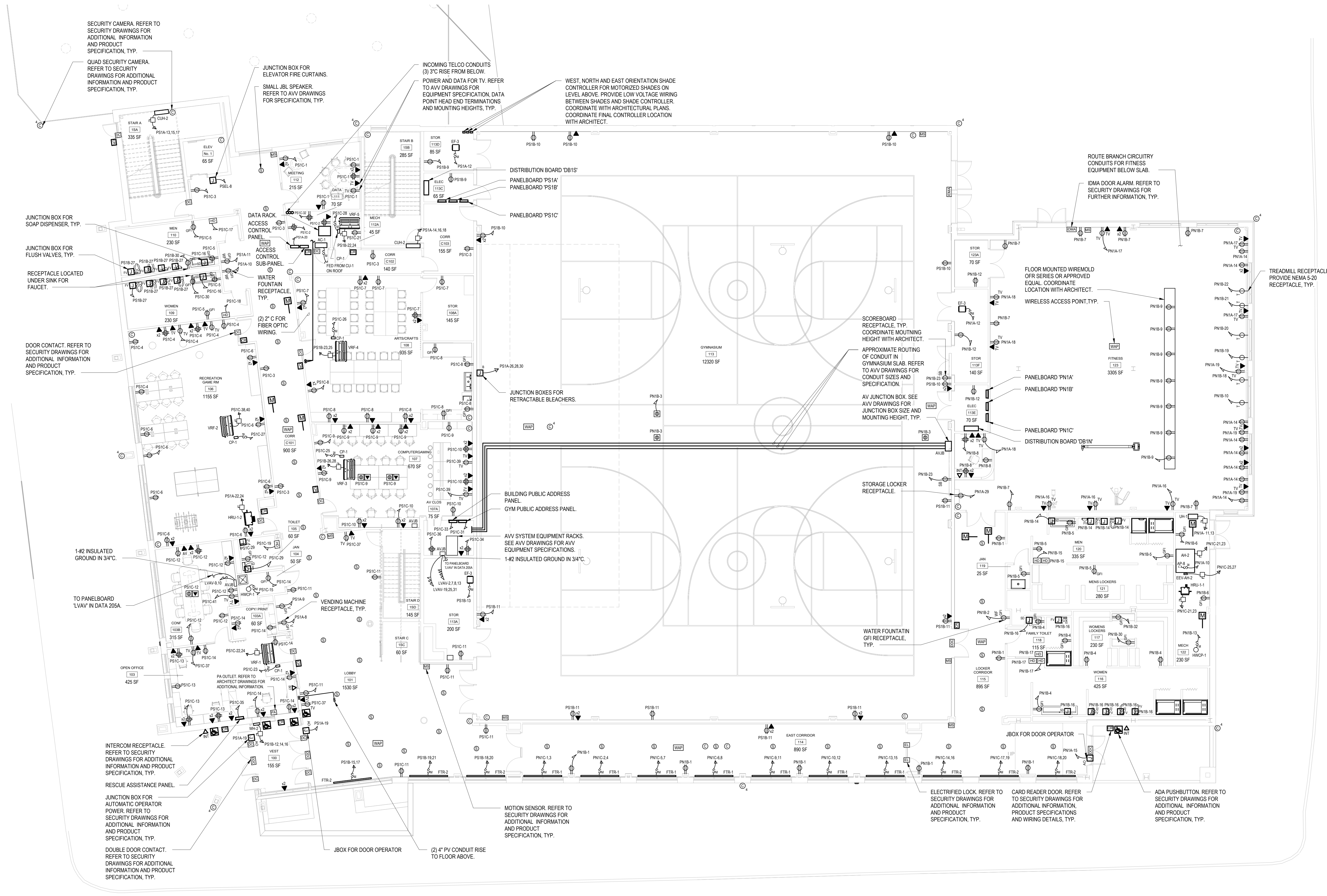
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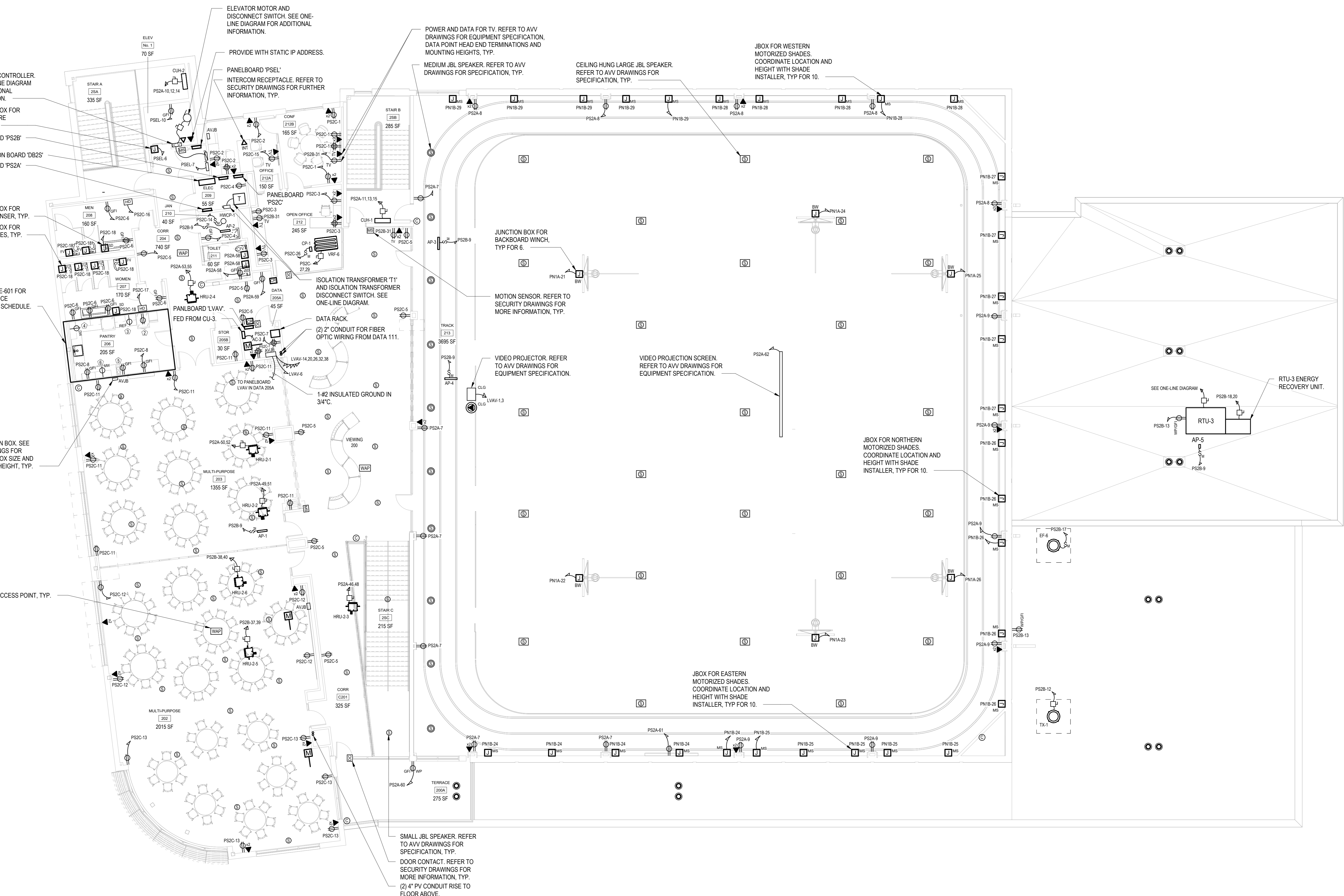
ELECTRICAL FIRST FLOOR PLAN

Job No.	NKGD0207.00	Date	02/21/20
Scale	AS NOTED	Drawn / Checked	VB / ML
Sheet Number	E-302		



ELECTRICAL FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"
 NORTH

- NOTES:
- 1) CIRCUIT ALL MOTORIZED DAMPERS LOCATED ON THE SOUTH SIDE OF THE BUILDING TO PS1A-20.
 - 2) CIRCUIT ALL MOTORIZED DAMPERS LOCATED ON THE NORTH SIDE OF THE BUILDING TO PN1C-22.



1 ELECTRICAL SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"

NOTES:
 1.) CIRCUIT ALL MOTORIZED DAMPERS TO 'PS2C-28'.

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OLA Consulting Engineers
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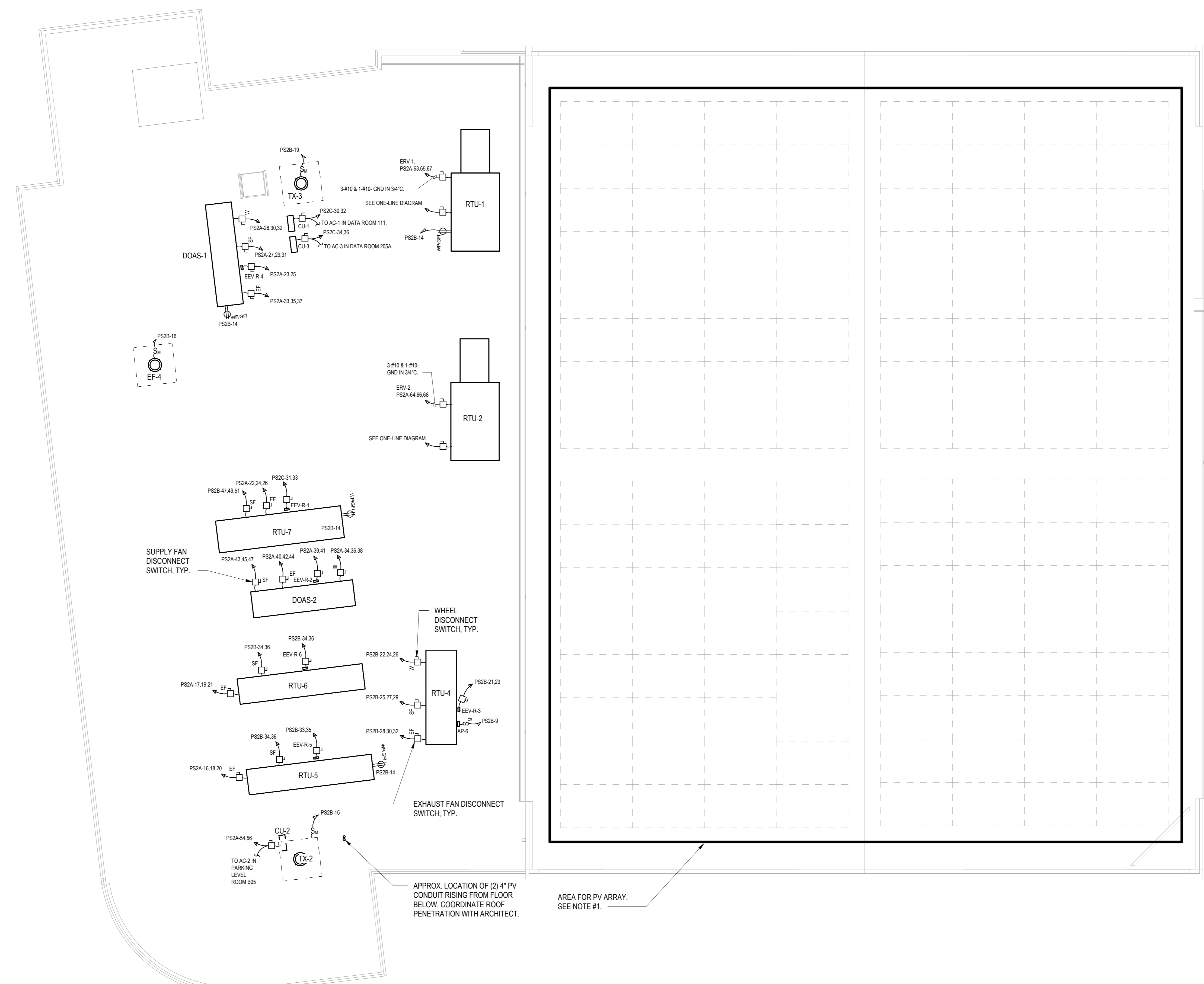
No.	Date	Issue

7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

**ELECTRICAL
ROOF PLAN**

Job No. NKG0207.00 Date 02/21/20
Scale AS NOTED Drawn / Checked VB / ML

Sheet Number
E-304



1 ELECTRICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1.) PV ARRAY SHALL BE APPROXIMATELY 170KW CAPACITY. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR A DELEGATED DESIGN INCLUDING ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM.

Key Plan

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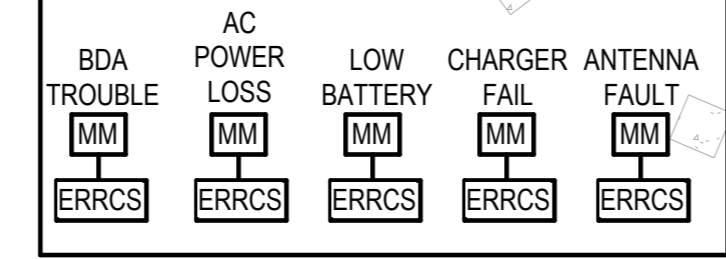
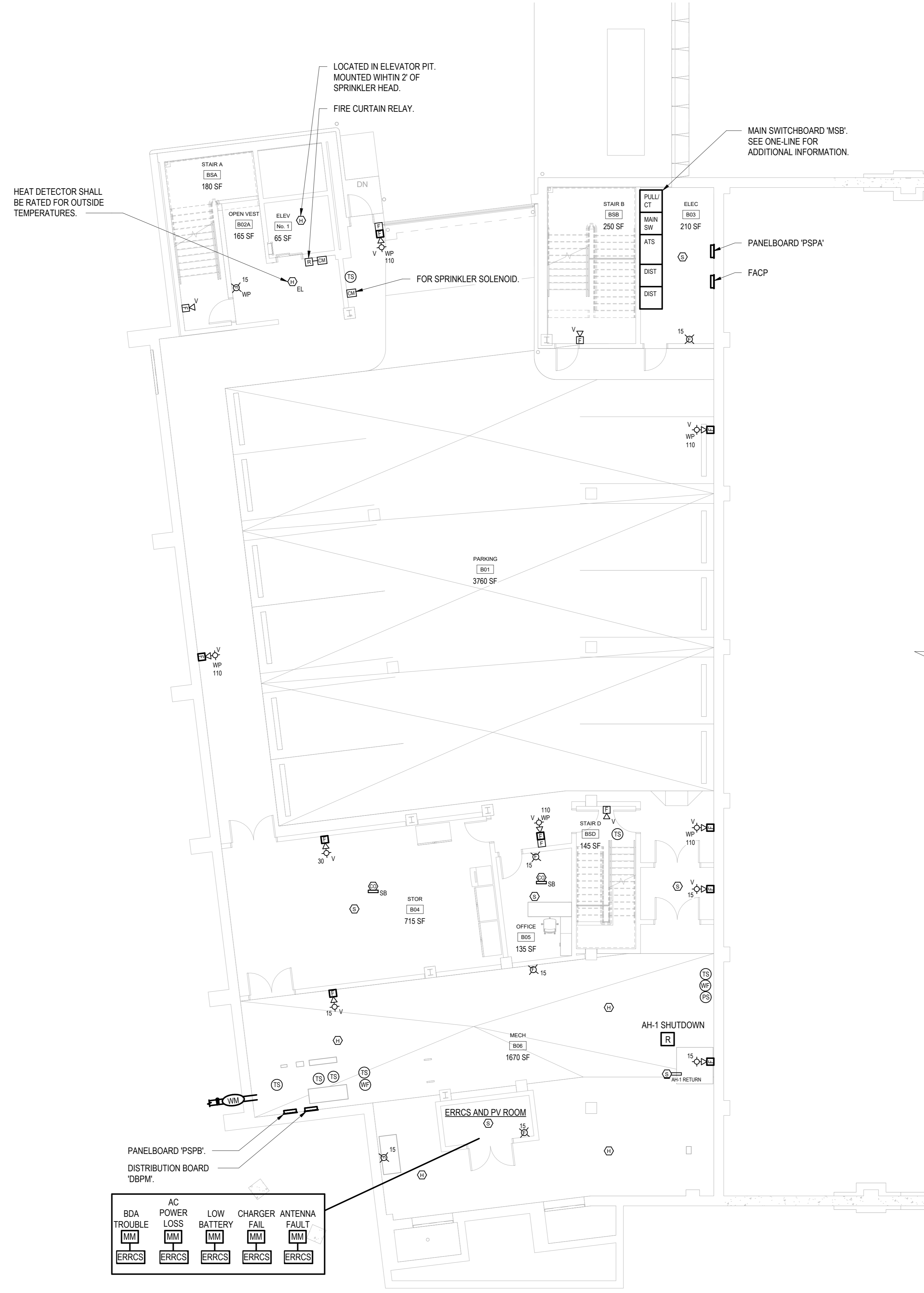
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FIRE ALARM PARKING FLOOR PLAN

Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number
E-401



1 FIRE ALARM PARKING FLOOR PLAN
SCALE: 1/8" = 1'-0"
NORTH

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P:914.666.5900 KGARCHITECTS.COM

OLA Consulting Engineers
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8 West 38th Street,
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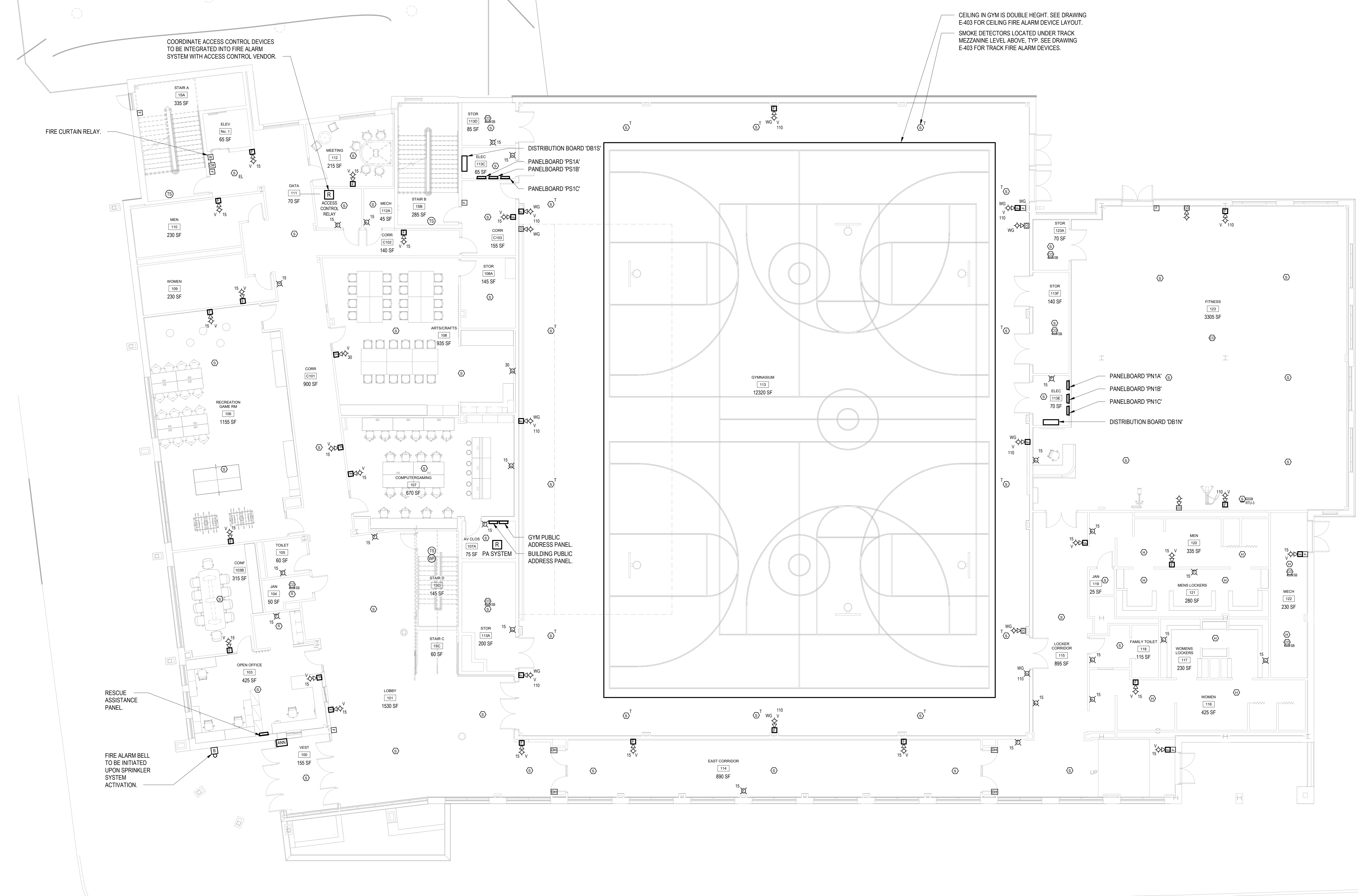
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FIRE ALARM FIRST FLOOR PLAN

Job No.	NKGD0207.00	Date	02/21/20
Scale	AS NOTED	Drawn / Checked	VB / ML
Sheet Number	E-402		



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

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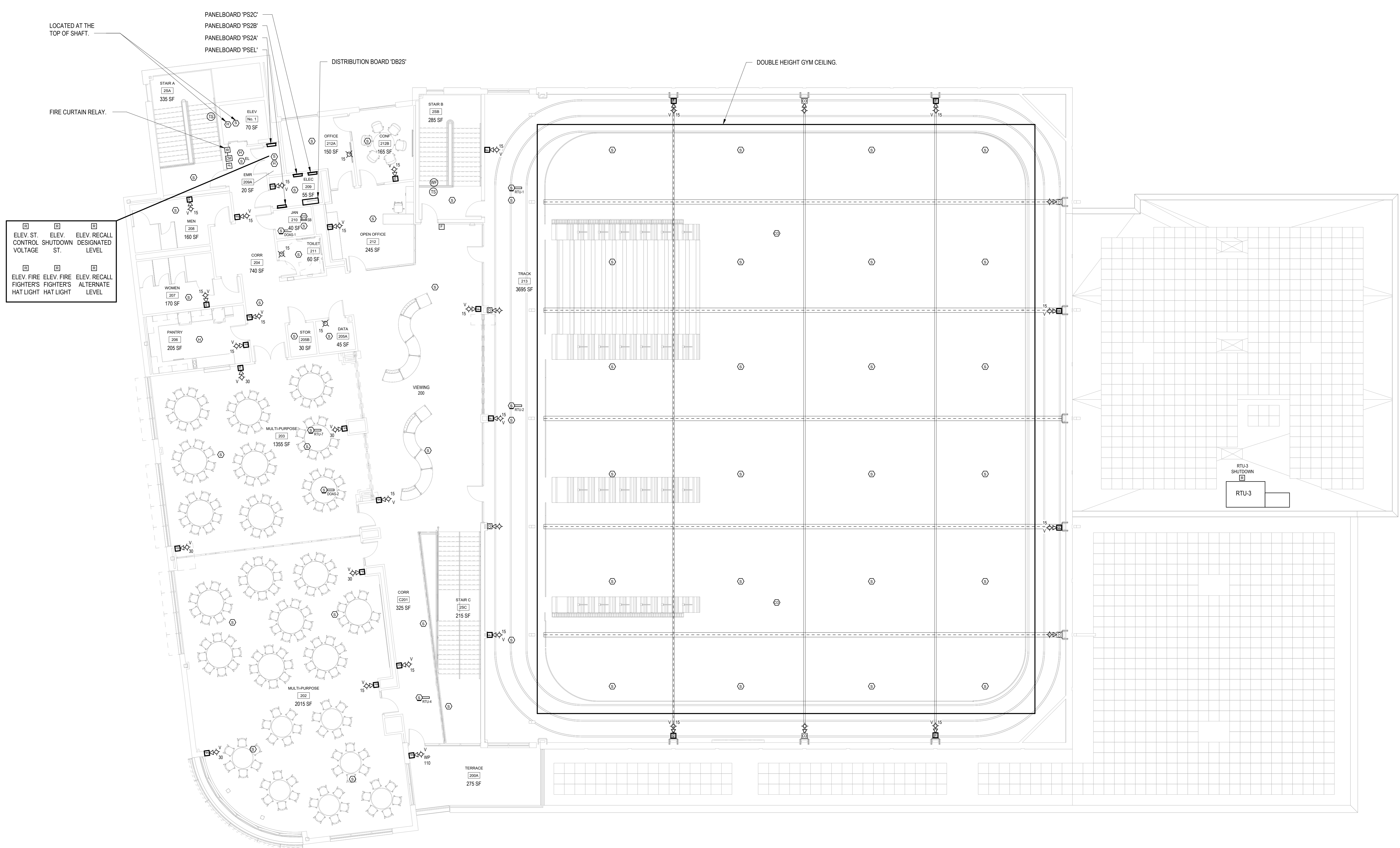
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**FIRE ALARM
SECOND FLOOR
PLAN**

Job No. NKG0207.00 Date 02/21/20
Scale AS NOTED Drawn / Checked VB / ML

Sheet Number
E-403



LOCATED AT THE TOP OF SHAFT.
FIRE CURTAIN RELAY.

ELEV. ST. CONTROL VOLTAGE
 ELEV. FIRE FIGHTER'S HAT LIGHT
 ELEV. RECALL ST. DESIGNATED LEVEL
 ELEV. FIRE FIGHTER'S HAT LIGHT
 ELEV. RECALL ALTERNATE LEVEL

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

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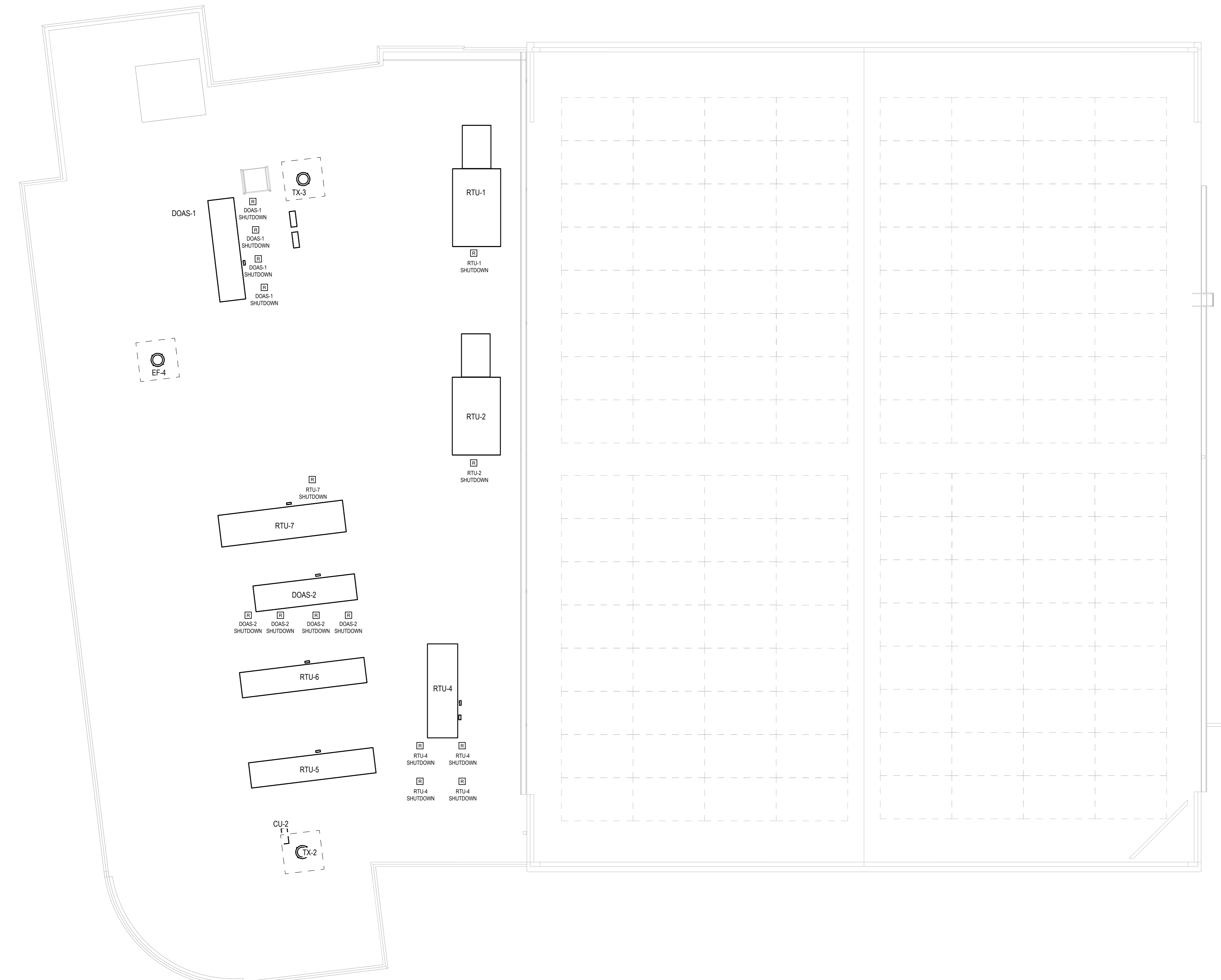
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FIRE ALARM ROOF PLAN

Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number
E-404



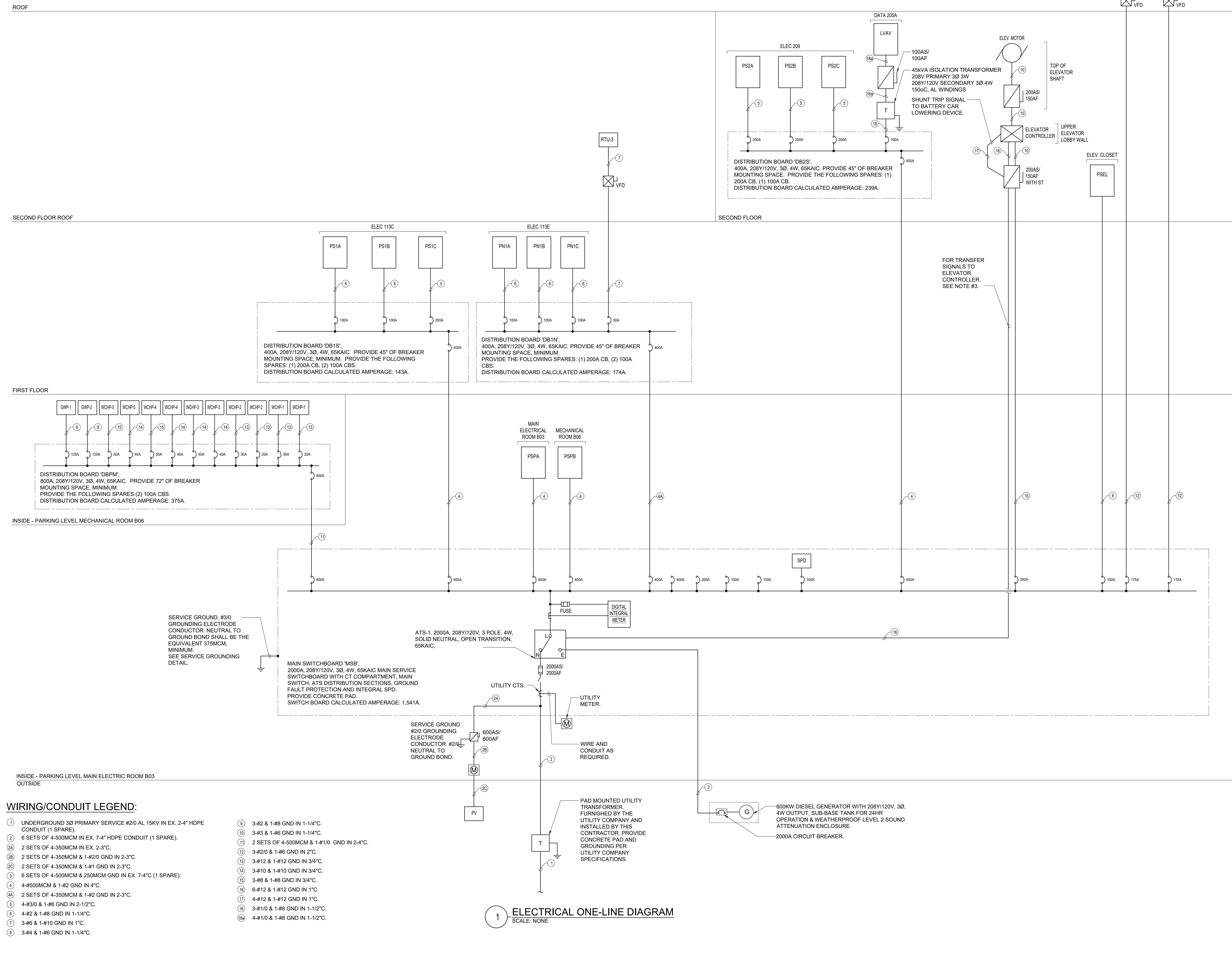
FIRE ALARM ROOF PLAN
SCALE: 1/8" = 1'-0"
1

HARRISON RECREATION & COMMUNITY CENTER

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CONSTRUCTION DOCUMENTS



WIRING/CONDUIT LEGEND:

- | | |
|---|--|
| ① UNDERGROUND 3Ø PRIMARY SERVICE #2/0 AL 15KV IN EX. 2-4" HDPE CONDUIT (1 SPARE). | ⑨ 3-#2 & 1-#8 GND IN 1-1/4". |
| ② 2 SETS OF 4-500MCM IN EX. 7-4" HDPE CONDUIT (1 SPARE). | ⑩ 3-#3 & 1-#6 GND IN 1-1/4". |
| ③ 2 SETS OF 4-350MCM IN EX. 2-3". | ⑪ 2 SETS OF 4-500MCM & 1-#1/0 GND IN 2-4". |
| ④ 2 SETS OF 4-350MCM & 1-#2/0 GND IN 2-3". | ⑫ 3-#2/0 & 1-#6 GND IN 2". |
| ⑤ 2 SETS OF 4-350MCM & 1-#1 GND IN 2-3". | ⑬ 3-#12 & 1-#12 GND IN 3/4". |
| ⑥ 6 SETS OF 4-500MCM & 250MCM GND IN EX. 7-4" (1 SPARE). | ⑭ 3-#10 & 1-#10 GND IN 3/4". |
| ⑦ 4-#500MCM & 1-#2 GND IN 4". | ⑮ 3-#8 & 1-#8 GND IN 3/4". |
| ⑧ 2 SETS OF 4-350MCM & 1-#2 GND IN 2-3". | ⑯ 6-#12 & 1-#12 GND IN 1". |
| ⑨ 4-#3/0 & 1-#6 GND IN 2-1/2". | ⑰ 4-#12 & 1-#12 GND IN 1". |
| ⑩ 4-#2 & 1-#8 GND IN 1-1/4". | ⑱ 3-#1/0 & 1-#8 GND IN 1-1/2". |
| ⑪ 3-#6 & 1-#10 GND IN 1". | ⑲ 4-#1/0 & 1-#8 GND IN 1-1/2". |
| ⑫ 3-#4 & 1-#6 GND IN 1-1/4". | |

1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NONE

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ELECTRICAL ONE-LINE DIAGRAM

Job No. NKGD0207.00 Date 03/01/2024
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Sheet Number **E-501**

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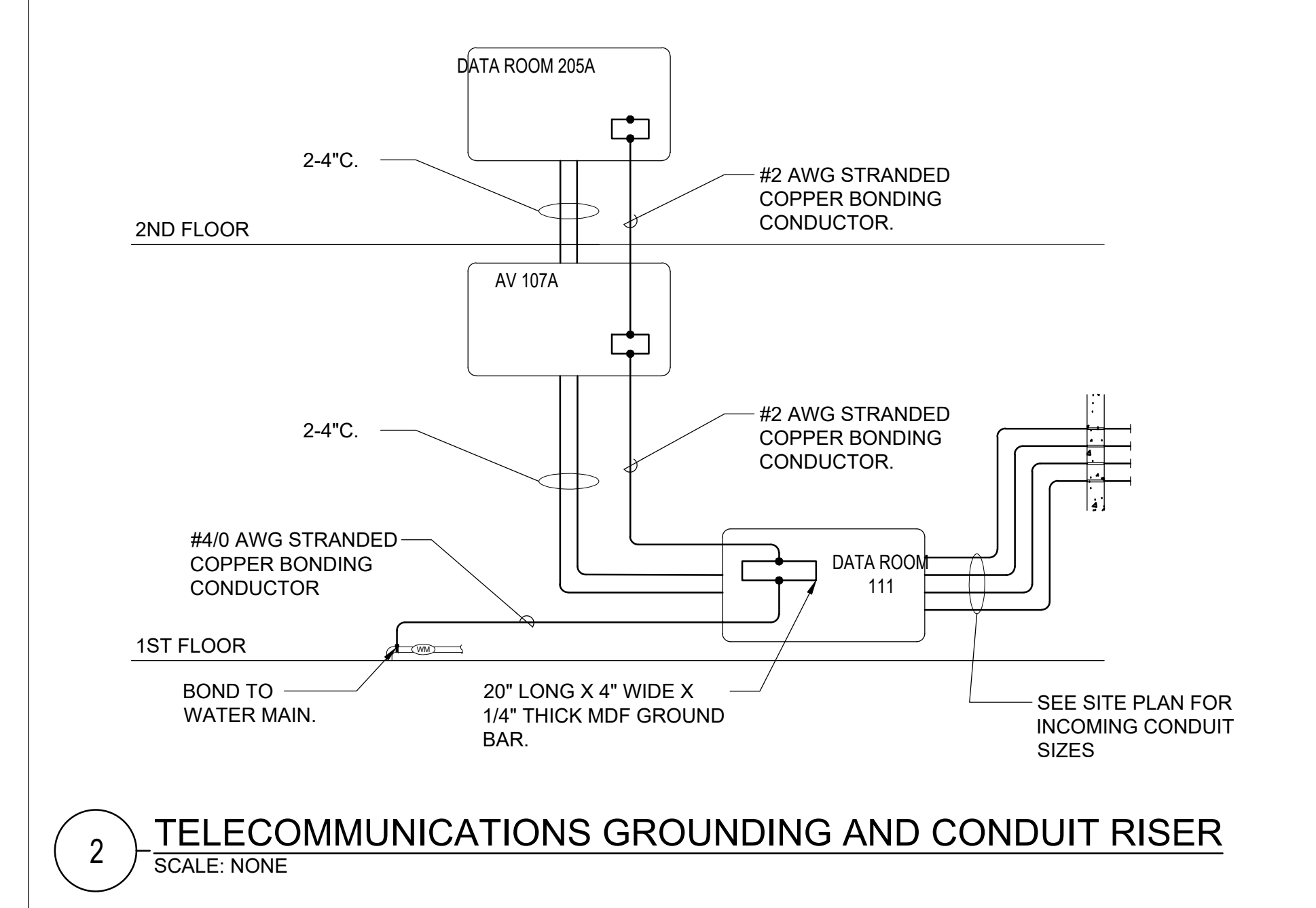
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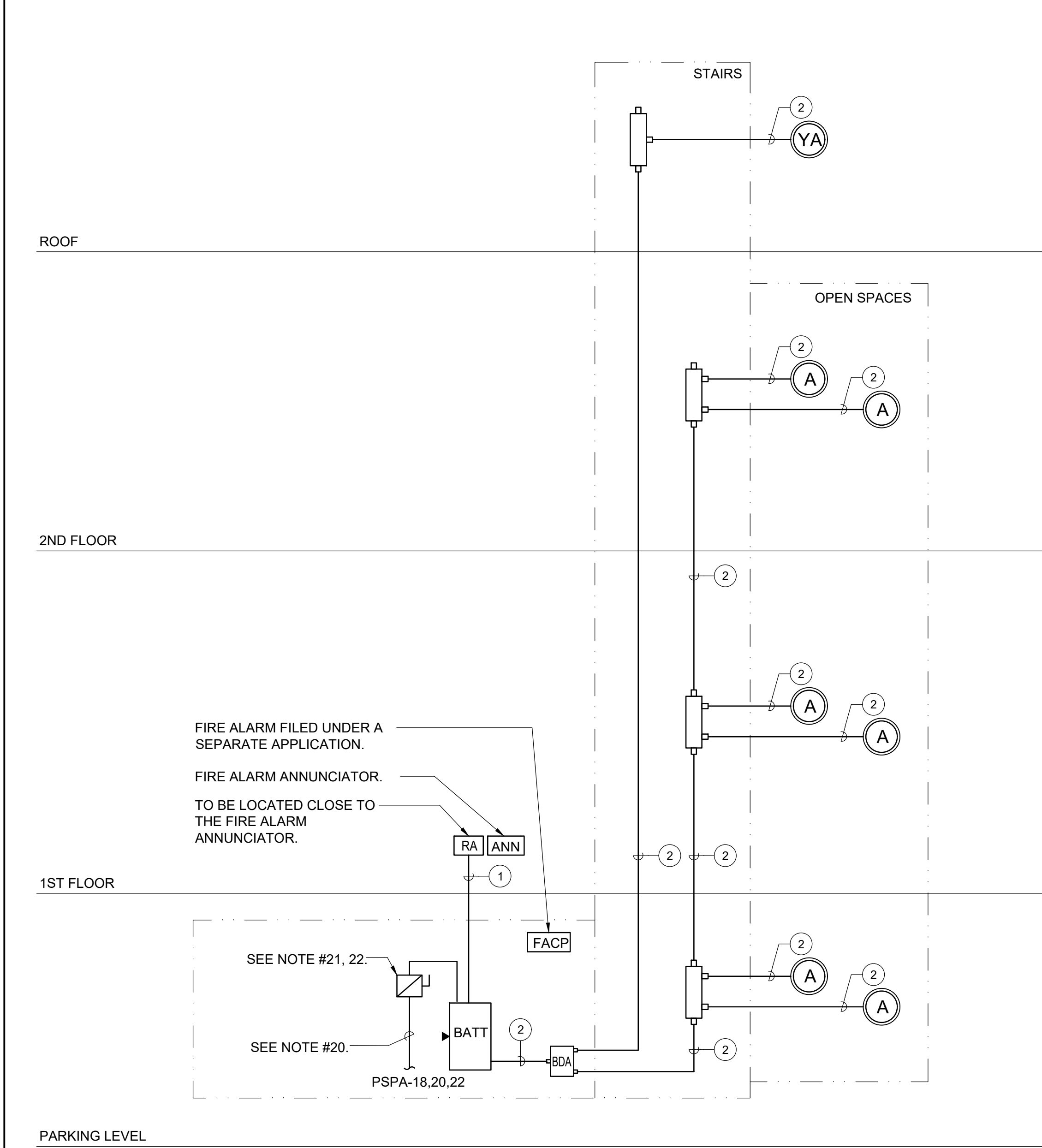
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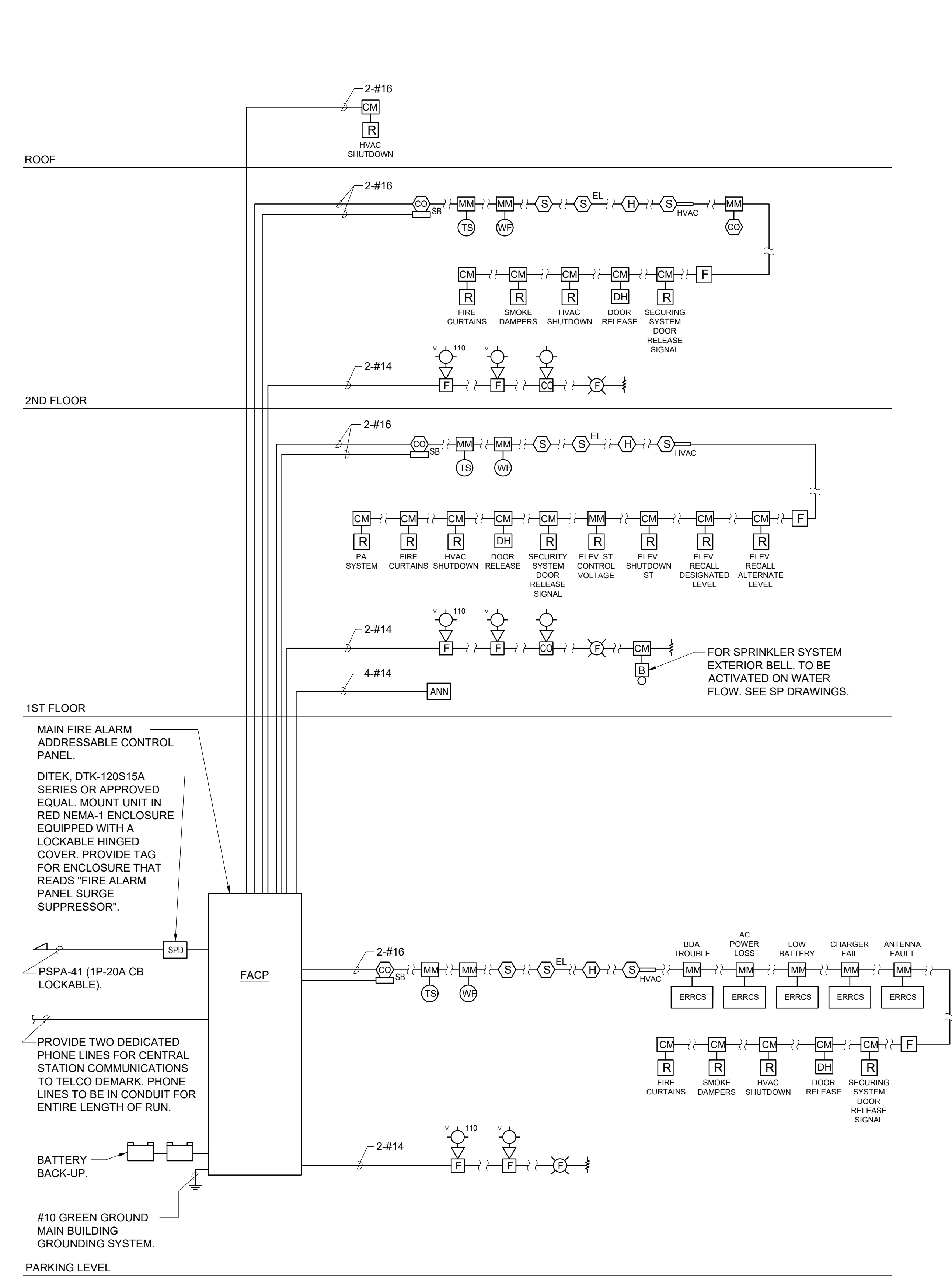
CONSTRUCTION DOCUMENTS



2 TELECOMMUNICATIONS GROUNDING AND CONDUIT RISER
SCALE: NONE



3 FIRE RADIO RISER DIAGRAM
SCALE: NONE



1 FIRE ALARM RISER DIAGRAM
SCALE: NONE

SYMBOLS AND ABBREVIATIONS			SYMBOLS AND ABBREVIATIONS		
SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
	-	FUSED DISCONNECT SWITCH		C	CONDUIT
	-	UNFUSED DISCONNECT SWITCH		CKT	CIRCUIT
	-	TAPPER		CLG	CEILING
	-	EQUAL POWER DIVIDER		COL	COLUMN
	-	RY012NQ_POLOMARCONI ANTENNA		DWG	DRAWING
	-	TOWERLING SLC RISER		ELEV	ELEVATOR
	FACP	FIRE ALARM CONTROL PANEL		FCS	FIRE COMMAND STATION
	BATT	BATTERY BACK-UP WITH INTERNAL CHARGER		PS	POWER SUPPLY
	BDA	BI-DIRECTIONAL AMPLIFIER BOOSTER		SW	SWITCH(ES)
	-	YAGI ANTENNA WITH MOUNTING HARDWARE		TYP	TYPICAL
	-	REMOTE ANNUNCIATOR		UON	UNLESS OTHERWISE NOTED
A	AMPERE(S)		NOTES: 1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.		
BLDG	BUILDING				

WIRING/CONDUIT LEGEND:

- ① CONTROL CABLING: CAT-5e.
- ② 2-HR RATED CO-AUX CABLE IN 3/4" THAT MEETS NFPA 72, 1221 AND UL 2196 SIMILAR TO DRAGON SKIN 2HB12-50JPLR OR APPROVED EQUAL.

NOTES:

1. RISER CABLING: PRIMARY DISTRIBUTION CABLE FOR R/F POWER IS NOT EXCLUSIVELY INSTALLED VERTICALLY.
2. BRANCH CABLING: LAST LEG DISTRIBUTION CABLE FOR R/F POWER, TYPICALLY INSTALLED ON A SINGLE FLOOR AND FEEDS ANTENNAS.
3. ALL BRANCH CABLING MUST BE ENCASED IN THE CONCRETE DECK OR OTHERWISE PROVIDED WITH TWO HOURS SURVIVABILITY.
4. CONTROL CABLING: CAT-5E. ALL CONTROL CABLING IS TO BE INSTALLED INSIDE A TWO-HOUR RATED SHAFT WAY.
5. ALL RISER CABLING IS 1/2" AIR DIELECTRIC CABLE, RED, PRINTED "FIRE DEPARTMENT COMMUNICATIONS USE" TO BE INSTALLED AND SECURED PER MANUFACTURER RECOMMENDATIONS.
6. INSTALLING CONTRACTOR TO DETERMINE FINAL DBM VALUES OF RF COMPONENTS.
7. WHERE RISER AND/OR BRANCH CABLING IS EXPOSED TO GENERAL PUBLIC, MUST BE MECHANICALLY PROTECTED AGAINST ACCIDENTAL AND INTENTIONAL DAMAGE.
8. ALL BRANCH CABLING IS 1/2" AIR DIELECTRIC CABLE WITH PLENUM RATING TO BE INSTALLED AND SECURED PER MANUFACTURER RECOMMENDATIONS.
9. RADIO AMPLIFICATION UNIT (RAU) BY TOWERIQ MODEL TAC-R414 OR CURRENT MODEL. RAU MUST BE LOCATED IN TWO HOUR RATED ROOM.
10. ALL COAXIAL CONNECTORS ARE TO BE N-TYPE CONNECTORS.
11. WHERE ANY ELECTRICAL AND R/F CONNECTION IS MADE, PHYSICAL ACCESS MUST BE AVAILABLE.
12. RAU REQUIRES A 15 30R ELECTRICAL CONNECTION TO LIFE SAFETY SOURCE. PROVIDE WITH A LOCKABLE FUSE DISCONNECT.
13. ALL INSTALLED CABLING AND COMPONENTS, WHERE PHYSICALLY ACCESSIBLE ARE TO BE LABELED "EMERGENCY RESPONDER COMMUNICATIONS USE," AT A MINIMUM INTERVAL OF 6'.
14. RAU MUST BE PROVIDED WITH INTERNET CONNECTIVITY VIA RJ-45 RECEPTACLE.
15. WHEN ENCASED IN THE DECK ALL CABLES MUST BE INSTALLED IN PROPERLY SIZED CONDUIT WITH CONSIDERATIONS FOR PULL BOXES, TURN CONNECTORS AND OTHER IN-LINE DEVICES.
16. PROVIDE FUSE QUANTITIES AND SIZES AS REQUIRED FOR SYSTEM.
17. PROVIDE WIRING AND CONDUIT AS REQUIRED.
18. NEW YORK STATE APPROVED CABINET WITH NYS/FDNY KEY AND LOCKABLE DOOR. (FCO).
19. 5-#10 IN 1".
20. 4-#4 & 1-#6 GND IN 1-1/4" FROM 3P-60A CB IN PANELBOARD. QUANTITY OF PHASE CONDUCTORS SHOWN FOR INFORMATION ONLY. PROVIDE NUMBER OF PHASE CONDUCTORS AS REQUIRED.
21. 60AS/60AF. SIZE OF FUSES SHOWN FOR INFORMATION ONLY. SIZE FUSES AND PROVIDE NUMBER OF FUSES AS REQUIRED.
22. ERRCS DISCONNECT SWITCH.
23. SEE FLOOR PLANS FOR EQUIPMENT QUANTITIES AND LOCATIONS. RISER IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANT WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM A SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.

RISER NOTES:

- 1.) THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.
- 2.) ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.
- 3.) QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.
- 4.) PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.
- 5.) PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL TWENTY (20) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE TWENTY (20) FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, FAN SHUTDOWN, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.
- 6.) HEAT DETECTORS IN ELEVATOR MACHINE ROOM AND/OR SHAFT SHALL HAVE A LOWER TEMPERATURE RATING THAN THE NEARBY SPRINKLER HEAD(S). HEAT DETECTORS SHALL BE INSTALLED 2'-0" MAXIMUM AWAY FROM EACH SPRINKLER HEAD IN THE ELEVATOR MACHINE ROOM AND EACH HEAD LOCATED GREATER THAN 2'-0" ABOVE THE FLOOR OF THE ELEVATOR SHAFT. UPON ACTIVATION OF A HEAT DETECTOR USED FOR ELEVATOR POWER SHUTDOWN, THERE SHALL BE A DELAY IN THE ACTIVATION OF THE POWER SHUNT TRIP. THIS DELAY SHALL BE THE TIME THAT IT TAKES THE ELEVATOR CAB TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL. COORDINATE WITH ELEVATOR CONTRACTOR.
- 7.) DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.
- 8.) CARBON MONOXIDE AND NATURAL GAS DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM BUT SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL CONTAIN INTERNAL HORNS TO PROVIDE LOCAL ALARM ONLY, UON.
- 9.) ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT.
- 10.) ELECTRICAL CONTRACTOR TO PROVIDE A RELAY FOR EACH SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. RELAYS ARE NOT SHOWN ON PLANS FOR CLARITY.
- 11.) DOOR HOLDERS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
- 12.) PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS, ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.
- 13.) CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.

NOTE: ALL IDEAL DESIGN ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KG+D ARCHITECTS, PC AND WERE CREATED FOR USE ON THE PROJECT. NONE OF SUCH IDEAL DESIGN ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF KG+D.

WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH FABRICATION.

ALTERATIONS BY ANY PERSON IN ANY WAY OF ANY ITEM CONTAINED ON THIS DOCUMENT UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE 16, SECTION 2601 OF THE NEW YORK STATE LAW, E.C.P.C. SECTION 2601. ALL RIGHTS RESERVED.

Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

FIRE ALARM & FIRE RADIO RISER DIAGRAM

Job No. NKGD0207.00 Date 03/01/2024

Scale AS NOTED Drawn / Checked M/MLGDS

Sheet Number **E-502**

LIGHTING FIXTURE SCHEDULE									
FIXTURE DESIGNATION	MOUNTING	MANUFACTURER	CATALOG NUMBER	LUMENS	LAMPS	VOLTS	REMARKS		
A	Recessed	ARON	DUOT1-FF-4FA-500-B2-35K9-UNV-DM-E10W-W	500 LM/FT	17.3 W	UNV	CORRIDOR 4' DOUBLE LINED LINEAR FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
AA	Recessed	ARON	DUOT1-DW-DM6-1500-B2-35K8-UNV-DM-E10W-W	1500 LM/FT	12.2 W	UNV	6" DOUBLE LINED LINEAR FIXTURE.		
B	Recessed	COLUMBIA	CFP24-55/41/3435/4100-PLD10M	4,069 LM	39 W LED	UNV	2' X 4' LED EDGE UT FLAT PANEL. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
B2	Recessed	COLUMBIA	CFP14-55/41/3440/4100-PLD10M	5,035 LM	40 W LED	UNV	2' X 2' LED EDGE UT FLAT PANEL. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
C8	Pendant	FOCAL POINT	F5M2LS-FL-750F-35K-1C-UNV-LD1-C24-EM-WH-8"	750 LM/FT	56 W LED	UNV	8" LINEAR LED PENDANT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
C10	Pendant	FOCAL POINT	F5M2LS-FL-750F-35K-1C-UNV-LD1-C24-EM-WH-10"	750 LM/FT	70 W LED	UNV	10" LINEAR LED PENDANT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
C14	Pendant	FOCAL POINT	F5M2LS-FL-750F-35K-1C-UNV-LD1-C24-EM-WH-14"	750LM/FT	98 W LED	UNV	14" LINEAR LED PENDANT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
D	Recessed	PRESCOLITE	LF4ML-DM1-120-EMR / 4LFML30L-35K-8-SP-WT-CL	3,000 LM	32.7 W LED	120V	4" ROUND LED DOWNLIGHT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
D2	Recessed	PRESCOLITE	LF4ML-DM1-120-EMR / 4LFML30L-35K-8-SP-WT-CL	3,000 LM	32.7 W LED	120V	4" ROUND LED DOWNLIGHT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
D3	Recessed	UGHTOUER	FD4R30K Accessory: FD4NCP	700 LM	11 W LED	120V	4" ROUND LED DOWNLIGHT WITH NC PLATE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
E	Recessed	PRESCOLITE	LF6SL-DM1-120-EMR 6LF5L-15L-35K-8-SP-FLU-WT-DL	1,013 LM	12.6 W LED	120V	6" LED DOWNLIGHT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
EE	Surface	BEGA	66 655	652 LM	7.9 W LED	120V	4" EXTERIOR LED LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
F	Pendant	FOCAL POINT	ASM1TBP-6-BWRL-12-900DN-2250UP-35K-1C-UNV-LD1-J48-BKCD-CHR	3,150 LM	24.2 W LED	UNV	6" DIAMETER "Y" SHAPED LED PENDANT. COORDINATE FIXTURE COLOR WITH ARCHITECT.		
F2	Pendant	FOCAL POINT	ASM1TBP-6-BWRL-12-900DN-2250UP-35K-1C-UNV-LD1-J48-BKCD-SLG	3,150 LM	24.2 W LED	UNV	6" DIAMETER "Y" SHAPED LED PENDANT. COORDINATE FIXTURE COLOR WITH ARCHITECT.		
G	Surface	COLUMBIA	MPS-4-35-MW-C-W-ED-U-ELL14H2	3,600 LM	26.7 W LED	UNV	4" LINEAR LED WALL MOUNTED LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
G2	Pendant	COLUMBIA	MPS-4-35-MW-C-W-ED-U-ELL14H2 w/ CHS	3,600 LM	26.7 W LED	UNV	4" LINEAR LED PENDANT LIGHT FIXTURE. PROVIDE CHAIN HANGER ASSEMBLY. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
H	Pendant	DAY-BRITE	RBX-20L-840-UNV-WT-EMLD-ARR22 w/ 22FL-WGA22	20,000 LM	159 W LED	UNV	HIGH BAY 22" LED GYMNASIUM LIGHT FIXTURE. PROVIDE 22" CLEAR ACRYLIC STANDARD REFLECTOR. PROVIDE 22" FLAT ACRYLIC LENS AND SPRING CLAMP BAND WITH 22" WIRE GUARD. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
J	Recessed	AXIS	8BRLED-400-80/B35-FL-12-CB210946(#3) W-UNV-DP-1-TB9-B(2)	400 LM/FT	38.7 W LED	UNV	12" LED LINEAR LOBBY LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
K1	Surface	ARON	EZT1-F9-2FA-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	2" TETRIS STICK LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
K2	Surface	ARON	EZT1-F9-2x2-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	2' X 2' LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
K3	Surface	ARON	EZT1-F9-2x4-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	2' X 4' LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
K4	Surface	ARON	EZT1-F9-4x4-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	4' X 4' LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
K5	Surface	ARON	EZT1-F9-2x2L-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	2' X 2' L SHAPED LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
K6	Surface	ARON	EZT1-F9-2x4L-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	2' X 4' L SHAPED LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
K7	Surface	ARON	EZT1-F9-4x4L-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	4' X 4' L SHAPED LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
K8	Surface	ARON	EZT1-F9-4x12x4L-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	Z SHAPED LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
K9	Surface	ARON	EZT1-F9-12x4x1L-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	CUSTOM SHAPE LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ARCHITECT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
L	Surface	Lumenwerx	POECHROS-36-D-ULO-FH-F5-80-40-120-D1-1C-SUR-AL-LIN-AL-CYN	4,500 LM	46 W LED	120V	PERFORATED LED GYMNASIUM LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
M8	Recessed	AXIS	BBRLED-400-80/B35-1.5M-8-W-UNV-DP-1-TB9-B	400 LM/FT	37.1 W LED	UNV	8" LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
M10	Recessed	AXIS	BBRLED-400-80/B35-1.5M-10-W-UNV-DP-1-TB9-B	400 LM/FT	37.1 W LED	UNV	10" LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
M12	Recessed	AXIS	BBRLED-400-80/B35-1.5M-12-W-UNV-DP-1-TB9-B	400 LM/FT	37.1 W LED	UNV	12" LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
M14	Recessed	AXIS	BBRLED-400-80/B35-1.5M-14-W-UNV-DP-1-TB9-B	400 LM/FT	37.1 W LED	UNV	14" LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
M16	Recessed	AXIS	BBRLED-400-80/B35-1.5M-16-W-UNV-DP-1-TB9-B	400 LM/FT	37.1 W LED	UNV	16" LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
N	Recessed	PRESCOLITE	LF4R-4RD-M-15L-35K-8-WD-DM1-120 / LFR-4RD-4-SH-WT-ACL / LFR-4RD-H	1,500 LM	11.8 W LED	120V	4" ROUND LED SHOWER LIGHT FIXTURE. PROVIDE "SH" TRIM STYLE.		
P	Recessed	DAY-BRITE	2-FPZ-42B-835-4-DS-UNV-DIM	4,200 LM	32.6 W LED	UNV	2' X 4' LED LIGHT FIXTURE.		
P2	Recessed	DAY-BRITE	2-FPZ-38B-835-2-DS-UNV-DIM-B5L10LST	3,800 LM	30 W LED	UNV	2' X 2' LED LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
Q	Recessed	BEGA	77 125	568 LM	5.7 W LED	120V	EXTERIOR RATED 8" LED TREE UPLIGHT.		
R	Surface	LITHONIA	W5LED-P2-30K-VF-120-PBBW-E7WH-DBLXD	3,000 LM	25 W LED	120V	EXTERIOR RATED OVER DOOR SCONCE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
S	Surface	KENALL	RHR15-W-PP-25L35K-DV-PH	2,941 LM	25 W LED	UNV	STARWELL WALL SCONCE LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
T	Surface	BROWNLEE	5057-27-H16-35K	1,657 LM	16 W LED	120V	27" LED LINEAR WALL MOUNTED LIGHT FIXTURE.		
T1	Surface	BROWNLEE	5057-39-H16-35K	1,657 LM	16 W LED	120V	39" LED LINEAR WALL MOUNTED LIGHT FIXTURE.		
U	Surface	BEGA	99 522	6,855 LM	47.2 W LED	120V	EXTERIOR RATED POLE MOUNTED LED LIGHT FIXTURE.		
V	Pendant	FOCAL POINT	FLCY2-RD-BKG-500L-35K-1C-UNV-DSC-LD1-C72-DNT-NFL-EMR-CD-WH-WH	500 LM	8.5 W LED	UNV	2" ROUND LED DECORATIVE PENDANT. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
W	Pendant	BEACON	SRT2-50W-3K8-SQW-UNV-BLT-NXW512F	5,700 LM	50 W LED	UNV	18.5" ROUND LED LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
X	Semi-Recessed	FLUXWEX	TC1-J-05-G-K1-S-W-N-90-35-16W-F2-M-B	2,350 LM	16 W LED	UNV	5.5" ROUND SEMI-RECESSED ADJUSTABLE LED LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		
Y	Surface	BEGA	884430	364 LM	8 W LED	120V	BOLLARD EXTERIOR RATED LIGHT FIXTURE.		
Z	Surface	LUCCETTA LIGHTING	VIP24V-SE-ENC-250-30-DRIVER: DI-ODX-24V96W-J	-	5.6 W/FT	24V	LED ROPE LIGHTING FOR SIGNAGE. PROVIDE OMNIDIRECTIONAL DRIVER. COORDINATE LENGTH OF LIGHT FIXTURE WITH ARCHITECT.		
ZZ	Surface	ACCLAIM LIGHTING	AGH-241-D-P-B-(10-10V-DM)	419 LM/FT	9 W/FT	120V	4" LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.		

NOTES:
1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
2.) ALL BALLASTS AND DRIVERS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.
3.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY WHERE POSSIBLE AND SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 120V LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
4.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.
5.) ALL LIGHT FIXTURES TAGGED AS "EM" SHALL BE FED FROM EMERGENCY POWER PANELS. THESE FIXTURES SHALL BE SWITCHED AS INDICATED ALONG WITH LIGHTING FIXTURES FED FROM NORMAL POWER SOURCES UNLESS ALSO TAGGED AS "NL". UPON LOSS OF NORMAL POWER, EMERGENCY LIGHT FIXTURES SHALL BE AUTOMATICALLY SHUNTED TO FULL BRIGHT REGARDLESS OF STATE OF CONTROLLING SWITCH. SEE DETAIL FOR ADDITIONAL INFORMATION.

LIGHTING SYSTEM FUNCTIONAL TESTING/COMMISSIONING

I. FUNCTIONAL TESTING
PRIOR TO PASSING FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE EVIDENCE TO THE BUILDING OWNER AND THE ENGINEER THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S DOCUMENTS. FUNCTIONAL TESTING, FOR THE APPLICABLE CONTROL TYPE, SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
1.) OCCUPANT SENSOR CONTROLS
WHERE OCCUPANT SENSOR CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
A.) CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
B.) FOR PROJECTS WITH SEVEN OR FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
C.) FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT, BUT IN NO CASE LESS THAN ONE, OF EACH COMBINATION SHALL BE TESTED UNLESS THE CODE OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.
FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:
i.) WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.
ii.) THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
iii.) FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
iv.) FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
v.) THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.

2.) TIME-SWITCH CONTROLS
WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
A.) CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
B.) PROVIDE DOCUMENTATION TO THE OWNER OF TIME-SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
C.) VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
D.) VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
E.) VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
F.) SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
i.) ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
ii.) THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
G.) SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
i.) NONEXEMPT LIGHTING TURNS OFF.
ii.) MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF OCCURS.

3.) DAYLIGHT RESPONSIVE CONTROLS
WHERE DAYLIGHT RESPONSIVE CONTROLS ARE PROVIDED, THE FOLLOWING SHALL BE VERIFIED:
A.) CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SET POINTS AND THRESHOLD LIGHT LEVELS.
B.) DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
C.) THE LOCATIONS OF CALIBRATION ADJUSTMENT EQUIPMENT ARE READILY ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

II. DOCUMENTATION REQUIREMENTS
DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA ARE TO BE PROVIDED TO THE BUILDING OWNER AND ENGINEER WITHIN 60 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

LVAV PANEL SCHEDULE

MAIN RATING: 100A MAIN C.B.: 100A KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	GYMNASIUM VIDEO PROJECTOR	30	2	1	20	AV CLOS 107A - AVV RACK EQPT	2
3	-	-	-	-	-	-	4
5	-	-	-	1	20	DATA 205A - AVV RACK EQPT	6
7	AV CLOS 107A - AVV RACK EQPT	20	1	1	20	AV CLOS 107A - AVV RACK EQPT	8
9	CONF 103B - AVV EQUIPMENT	20	1	1	20	CONF 103B - AVV EQUIPMENT	10
11	-	-	-	-	-	-	12
13	AV CLOS 107A - AVV RACK EQPT	20	1	1	20	DATA 205A - AVV RACK EQPT	14
15	-	-	-	-	-	-	16
17	-	-	-	-	-	-	18
19	AV CLOS 107A - AVV RACK EQPT	20	1	1	20	DATA 205A - AVV RACK EQPT	20
21	-	-	-	-	-	-	22
23	-	-	-	-	-	-	24
25	AV CLOS 107A - AVV RACK EQPT	20	1	1	20	DATA 205A - AVV RACK EQPT	26
27	-	-	-	-	-	-	28
29	-	-	-	-	-	-	30
31	AV CLOS 107A - AVV RACK EQPT	20	1	1	20	DATA 205A - AVV RACK EQPT	32
33	-	-	-	-	-	-	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	DATA 205A - AVV RACK EQPT	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFF TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.
NOTES:

FOOD SERVICE EQUIPMENT SCHEDULE

MK.	QTY	DESCRIPTION	ELECTRICAL										REMARKS		
			FLA	KW	HP	VOLTS	PHASE	DIRECT	PLUG	MODEL NUMBER	NEMA	CIRCUIT BREAKER		PANEL	WIRE SIZE
1	3	DOUBLE DOOR REFRIGERATION	3.4	^	1/2	120	1	^	X	A-49R-HC-64"	5-15P	1P-20A	PSPA-13, PSPA-14 & PSPA-15	2#12 & 1#12 GND IN 3/4"	BASEMENT STORAGE ROOM.
2	2	ICE MAKER	9.4	^	^	120	1	^	X	A-KMC-H-530-A	5-15P	1P-20A	PSPA-12 & PS2C-10	2#12 & 1#12 GND IN 3/4"	BASEMENT STORAGE & SECOND FLOOR PANTRY.
3	1	SINGLE DOOR REFRIGERATOR	1.37	^	1/3	120	1	^	X	A-23R-HC-29"	5-15P	1P-20A	PS2C-9	2#12 & 1#12 GND IN 3/4"	SECOND FLOOR PANTRY.
4	1	UNDER COUNTER DISHWASHER	24.7	^	^	120	1	^	X	DISHSTAR HT-E	^	2P-35A	PS2C-19-21	3#10 & 1#10 GND IN 3/4"	SECOND FLOOR PANTRY.
5	1	COFFEE MAKER	15	1.8	^	120	1	^	X	ALPHA-3GT	5-15P	1P-15A	PS2C-20	2#12 & 1#12 GND IN 3/4"	SECOND FLOOR PANTRY.
6	1	MICROWAVE	^	2.1	^	120	1	^	X	#180M/WASHD21	6-20P	2P-20A	PS2C-22-24	3#12 & 1#12 GND IN 3/4"	SECOND FLOOR PANTRY.
7	1	HEATED BANQUET CABINET	13.8	1.65	^	120	1	^	X	MED-180-QH-180	5-15P	1P-20A	PS2C-23	2#12 & 1#12 GND IN 3/4"	SECOND FLOOR PANTRY.
8	1	WARMING CABINET	^	1.44	^	120	3	^	X	DVS DURAVEND	5-15P	1P-20A	PS2C-25	2#12 & 1#12 GND IN 3/4"	SECOND FLOOR PANTRY.

NOTES:
1.) COORDINATE ALL ELECTRICAL EQUIPMENT REQUIREMENTS, VOLTAGE, PHASE, CONNECTIONS, ETC WITH EQUIPMENT FURNISHED.
2.) COORDINATE MOUNTING HEIGHTS OF ALL RECEPTACLES, SWITCHES, ETC WITH ARCH

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

Professional Seal

7 10/09/2024 CONFORMED SET
 4 06/05/2024 ISSUED FOR BID
 3 01/16/2024 ISSUED FOR PERMIT
 2 06/01/2020 DESIGN DEVELOPMENT
 1 03/31/2020 50% DESIGN DEVELOPMENT

No. Date Issue

Sheet Title

Job No. NKGD0207.00 Date 03/01/2024

Scale AS NOTED Drawn / Checked JJ / MLDS

Sheet Number

E-602

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ALL RIGHTS RESERVED.

PSPA PANEL SCHEDULE											
MAIN RATING: 400A		MAIN C.B.: MLO		KAIC RATING: 22KAIC		VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4 MOUNTING: SURFACE	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS
1	LTG - PARKING B01	20	1	1	20	LTG - MAIN ELEC ROOM B03	2				
3	LTG - STAIR A	20	1	1	20	LTG - STAIR B	4				
5	LTG - STAIR D	20	1	1	20	LTG - STOR B04/OFFICE B05	6				
7	LTG - MECH B06	20	1	1	20	REC - MAIN ELEC ROOM B03	8				
9	REC - PARKING B01	20	1	1	20	REC - STOR B04/OFFICE B05	10				
11	REC - MECH B06	20	1	1	20	REC - ICE MAKER	12				
13	REC - REFRIGERATOR	20	1	1	20	REC - REFRIGERATOR	14				
15	REC - REFRIGERATOR	20	1	-	-	-	16				
17	-	-	-	-	-	-	18				
19	JBOX - FIRE CURTAIN	20	1	3	60	FIRE RADIO SYSTEM	20				
21	EF-3 - ELEC B03	15	1				22				
23	UH-1 - ELEC B03	20	2				24				
25	CUH-1 - STAIR B			3	15		26				
27	CUH-2 - STAIR A	15	3				28				
31	GENERATOR BLOCK HEATER	20	2	2	20	SITE LIGHTING	32				
33	GENERATOR GFI	20	1	2	40LK	EV CHARGERS	34				
39	GENERATOR BATTERY CHARGER	20	1				40				
41	FACP	20LK	1	2	40LK	EV CHARGERS	42				
43	SITE LIGHTING	20	1				44				
45	HVAC CONTROL PANEL	20	1	2	40LK	EV CHARGERS	46				
47	EV CHARGERS	40LK	2				48				
49				1	15	SITE LIGHTING TIME CLOCK	50				
51	PARKING B01 LIGHTING	20	1				52				
53	PARKING B01 LIGHTING	20	1	3	20	JBOX - GARAGE DOOR	54				
55	-	-	-	-	-	-	56				
57	SPARE	20	1	1	20	SPARE	58				
59	SPARE	20	1	1	20	SPARE	60				
61	SPARE	20	1	1	20	SPARE	62				
63	SPARE	20	1	1	20	SPARE	64				
65	SPARE	20	1	1	20	SPARE	66				
67	SPARE	20	1	1	20	SPARE	68				
69	SPARE	20	1	1	20	SPARE	70				
71	SPARE	20	1	1	20	SPARE	72				

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFF TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PS2A PANEL SCHEDULE

MAIN RATING: 200A MAIN C.B.: MLO KAIC RATING: 22KAIC
 VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - OFFICES/ELEC/JAN/TOIL	20	1	1	20	LTG - CORRIDOR 204	2
3	LTG - PANTRY/ RESTROOMS	20	1	1	20	LTG - DATA 205A/STOR 205B	4
5	LTG - MULTI-PURPOSE 203	20	1	1	20	LTG - MULTI-PURPOSE 201/202	6
7	REC - TRACK 213	20	1	1	20	REC - TRACK 213	8
9	REC - TRACK 213	20	1				10
11				3	15	CUH-2 - STAIR A	12
13	CUH-1 - STAIR B	15	3				14
15				3	15	RTU-5 - EXHAUST FAN	16
17	RTU-6 - EXHAUST FAN	15	3				18
19				3	20	RTU-7 - EXHAUST FAN	20
21							22
23	DOAS-1 EEV KIT	15	2				24
25							26
27	DOAS-1 SUPPLY FAN	15	3				28
29				3	15	DOAS-1 WHEEL	30
31							32
33							34
35	DOAS-1 EXHAUST FAN	15	3				36
37							38
39	DOAS-2 EEV KIT	15	2				40
41				3	15	DOAS-2 EXHAUST FAN	42
43							44
45	DOAS-2 SUPPLY FAN	15	3				46
47				2	15	HRU-2-3 - CORRIDOR C201	48
49	HRU-2-2 - PANTRY 206	15	2				50
51				2	15	HRU-2-1 - MULTI-PURPOSE	52
53	HRU-2-2 - ELEV LOBBY 204	15	2				54
55							56
57	HVAC CONTROL PANEL	20	1	1	20	J-BOX - TOILET 211	58
59	REC - WATER FOUNTAIN	20	1	1	20	REC - TERRACE WP GFI	60
61	REC - TRACK SCOREBOARD	20	1	1	20	GYMNASIUM PROJECTOR SCREEN	62
63							64
65	ERV-1	25	3	3	25	ERV-2	66
67							68
69	SPARE	20	1	1	20	SPARE	70
71	SPARE	20	1	1	20	SPARE	72
73	SPARE	20	1	1	20	SPARE	74
75	SPARE	20	1	1	20	SPARE	76
77	SPARE	20	1	1	20	SPARE	78
79	SPARE	20	1	1	20	SPARE	80
81	SPARE	20	1	1	20	SPARE	82
83	SPARE	20	1	1	20	SPARE	84

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFF TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PS1C PANEL SCHEDULE											
MAIN RATING: 200A		MAIN C.B.: MLO		KAIC RATING: 22KAIC		VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4 MOUNTING: SURFACE	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS
1	REC - MEETING 112	20	1	1	20	REC - DATA 111	2				
3	REC - CORRIDOR C101	20	1	1	20	REC - RECREATION GAME RM	4				
5	REC - MEN 110/WOMEN 109	20	1	1	20	REC - RECREATION GAME RM	6				
7	REC - ART/CRAFTS 108	20	1	1	20	REC - ART/CRAFTS 108	8				
9	REC - COMPUTER/GAMING 107	20	1	1	20	REC - COMPUTER/GAMING 107	10				
11	REC - LOBBY 101/ STOR 113A	20	1	1	20	REC - CONFERENCE 103B	12				
13	REC - OPEN OFFICE 103	20	1	1	20	REC - OPEN OFFICE 103/103A	14				
15	HWCP-1 - JAN 104	20	1	1	20	JBOX - MEN 110/ WOMEN 109	16				
17	HAND DRYER - MEN 110	20	1	1	20	HAND DRYER - WOMEN 109	18				
19	HAND DRYER - TOILET 105	20	1	1	20	JBOX - FIRE CURTAIN	20				
21	REC - MECH 112A	20	1	2	15	VRF-1 - OPEN OFFICE 103	22				
23	CP-1 - OPEN OFFICE 103	15	1				24				
25	CP-1 - COMPUTER GAMING	15	1	1	15	CP-1 - ARTS/CRAFTS 108	26				
27	CP-1 - REC RM 106	15	1	1	15	CP-1 - MECH 112A	28				
29	J-BOX - TOILET 105	20	1	1	20	REC - WOMEN 109	30				
31	GYM PA PANEL	20	1	1	20	REC - DATA 111	32				
33	BUILDING PA PANEL	20	1	1	20	REC - STOR 107A	34				
35	RESCUE ASSISTANCE PANEL	20	1	1	20	REC - STOR 107A	36				
37	TV OUTLET - OFFICE103/LOBBY 101	20	1	2	15	VRF-2 - REC RM 106	38				
39	TV OUTLET - COMPUTER GAMING 107	20	1				40				
41	TV OUTLET - CONF 103B	20	1	-	-	-	42				
43	-	-	-	-	-	-	44				
45	-	-	-	-	-	-	46				
47	SPARE	20	1	1	20	SPARE	48				
49	SPARE	20	1	1	20	SPARE	50				
51	SPARE	20	1	1	20	SPARE	52				
53	SPARE	20	1	1	20	SPARE	54				
55	SPARE	20	1	1	20	SPARE	56				
57	SPARE	20	1	1	20	SPARE	58				
59	SPARE	20	1	1	20	SPARE	60				
61	SPARE	20	1	1	20	SPARE	62				
63	SPARE	20	1	1	20	SPARE	64				
65	SPARE	20	1	1	20	SPARE	66				

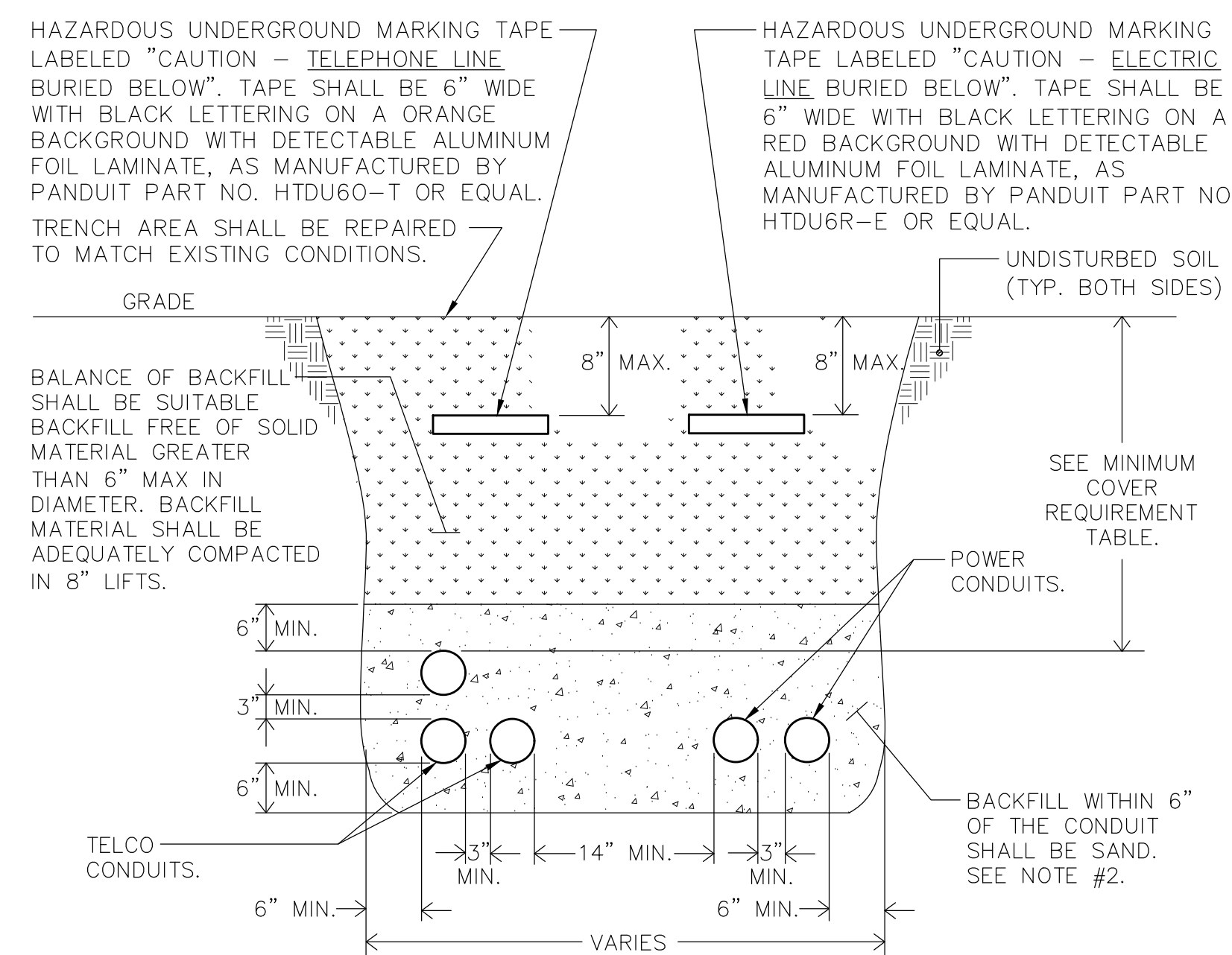
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFF TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PS2B PANEL SCHEDULE

MAIN RATING: 200A MAIN C.B.: MLO KAIC RATING: 22KAIC
 VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - VIEWING 200	20	1	1	20	LTG - CORRIDOR C201	2
3	LTG - TRACK 213	20	1	1	20	LTG - TRACK 213	4
5	LTG - TRACK 213	20	1	1	20	LTG - TRACK 213	6
7	LTG - EXTERIOR	20	1	1	20	LTG - TRACK 213	8
9	AP-1/AP-2/AP-3/AP-4/AP-5	20	1	1	20	LTG - TRACK 213	10
11	LTG - TRACK 213 SCONCE	20	1	1	20	TX-1 - GREEN ROOF	12
13	REC - ROOF WP GFI	20	1	1	20	REC - ROOF WP GFI	14
15	TX-2 - ROOF	15	1	1	15	EF-4 - ROOF	16
17	EF-6 - GREEN ROOF	15	1	2	15	RTU-3 ENERGY RECOVERY UNIT	18
19	TX-3 - ROOF	15	1				20
21	RTU-4 EEV KIT	15	2				22
23				3	15	RTU-4 WHEEL	24
25							26
27	RTU-4 SUPPLY FAN	15	3				28
29				3	15	RTU-4 EXHAUST FAN	30
31	TV OUTLET - CONF 212/212A/212B	20	1				32
33	EEV-R-5	15	2				34
35				2	15	EEV-R-6	36
37	HRU-2-5	15	2				38
39							40
41							42
43	RTU-5 - SUPPLY FAN	15	3				44
45				3	15	RTU-6 - SUPPLY FAN	46
47				-	-	-	48
49	RTU-7 - SUPPLY FAN	20	3				50
51				-	-	-	52
53	-	-	-	-	-	-	54
55	-	-	-	-	-	-	56
57	-	-	-	-	-	-	58
59	SPARE	20	1	1	20	SPARE	60
61	SPARE	20	1	1	20	SPARE	62
63							

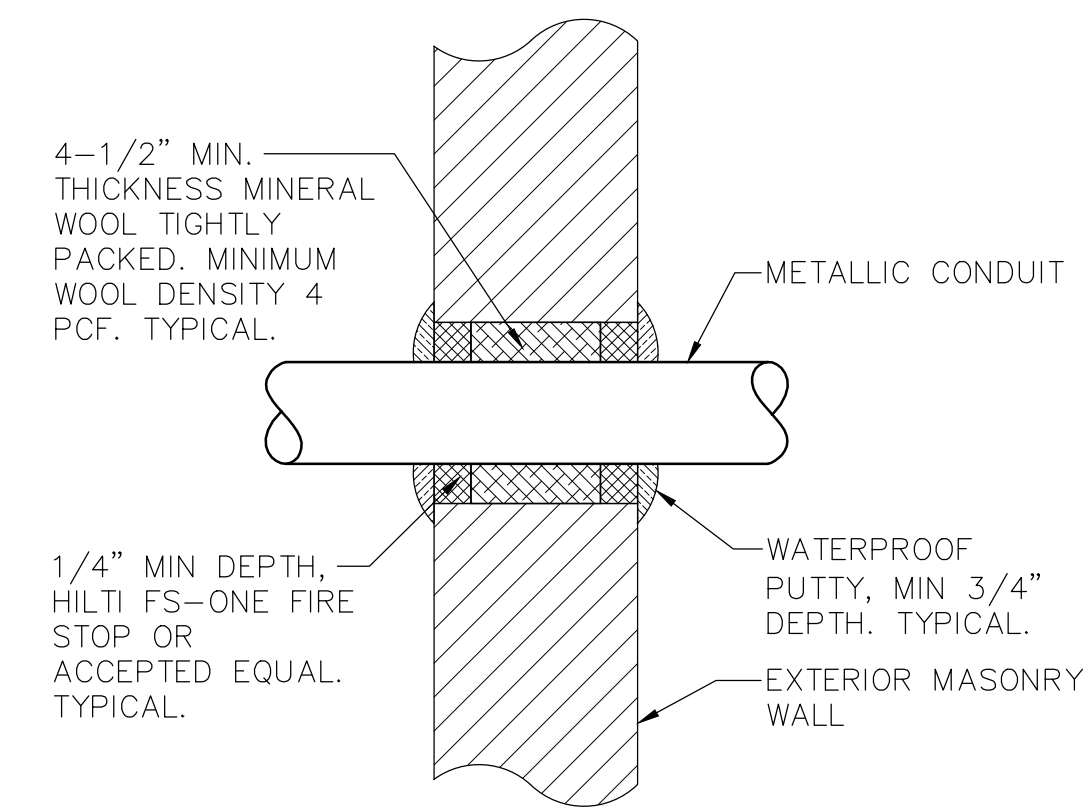


MINIMUM COVER REQUIREMENT TABLE	
LOCATION	NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASEMENT OR OTHER APPROVED RACEWAYS
ALL LOCATION NOT SPECIFIED BELOW.	18"
IN TRENCH BELOW 2-IN. THICK CONCRETE OR EQUIVALENT.	12"
UNDER MINIMUM OF 4-IN. THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB EXTENDING NOT LESS THAN 6 IN. BEYOND THE UNDERGROUND INSTALLATION.	4" SEE NOTE #2.
UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.	24"

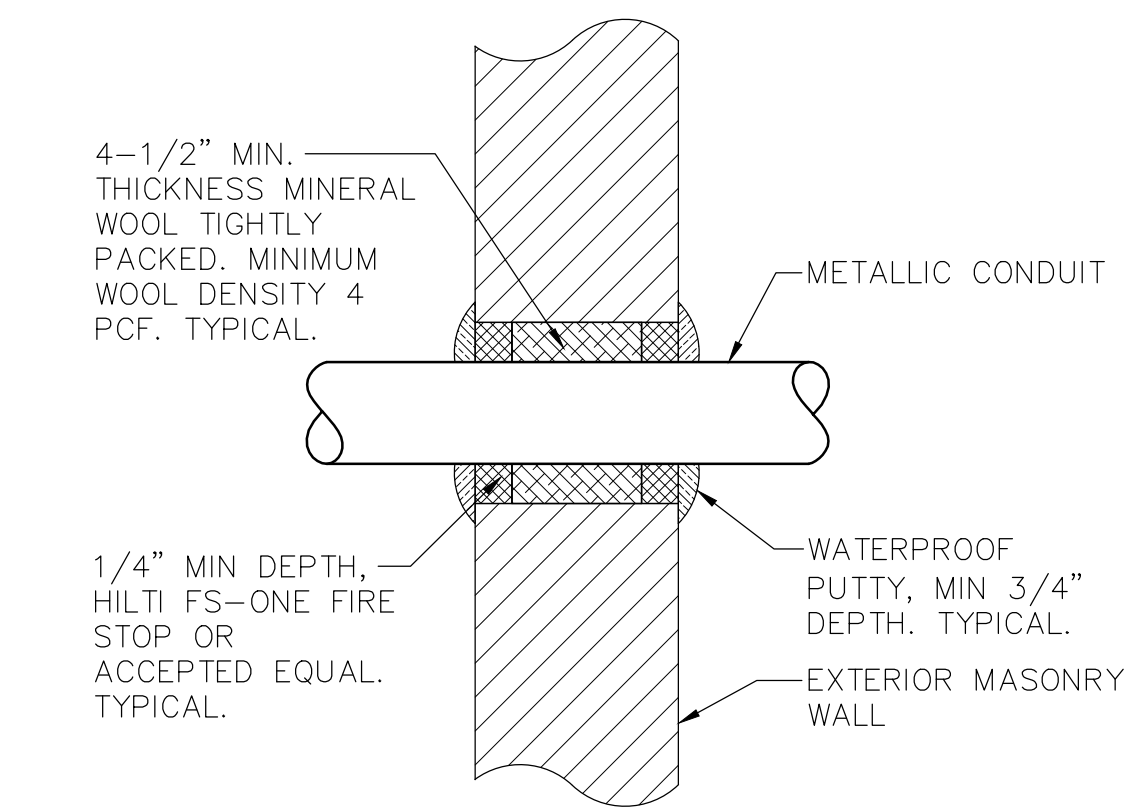
NOTES:

- 1.) DETAIL SHOWN FOR INFORMATION PURPOSES. SAME CONCEPT SHALL ALSO APPLY FOR SINGLE CONDUITS.
- 2.) SAND MAY BE OMITTED FOR INSTALLATIONS WHERE COVER REQUIREMENTS ARE 6" OR LESS.

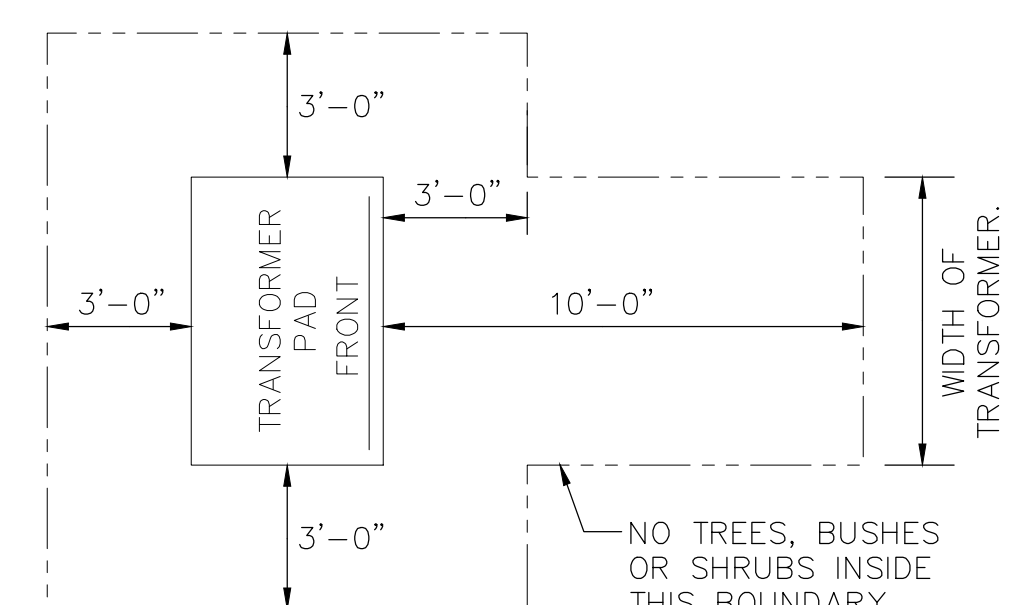
11 TRENCHING DETAIL FOR CONDUIT
SCALE: NONE



6 TYPICAL EXTERIOR MASONRY WALL ABOVE GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE



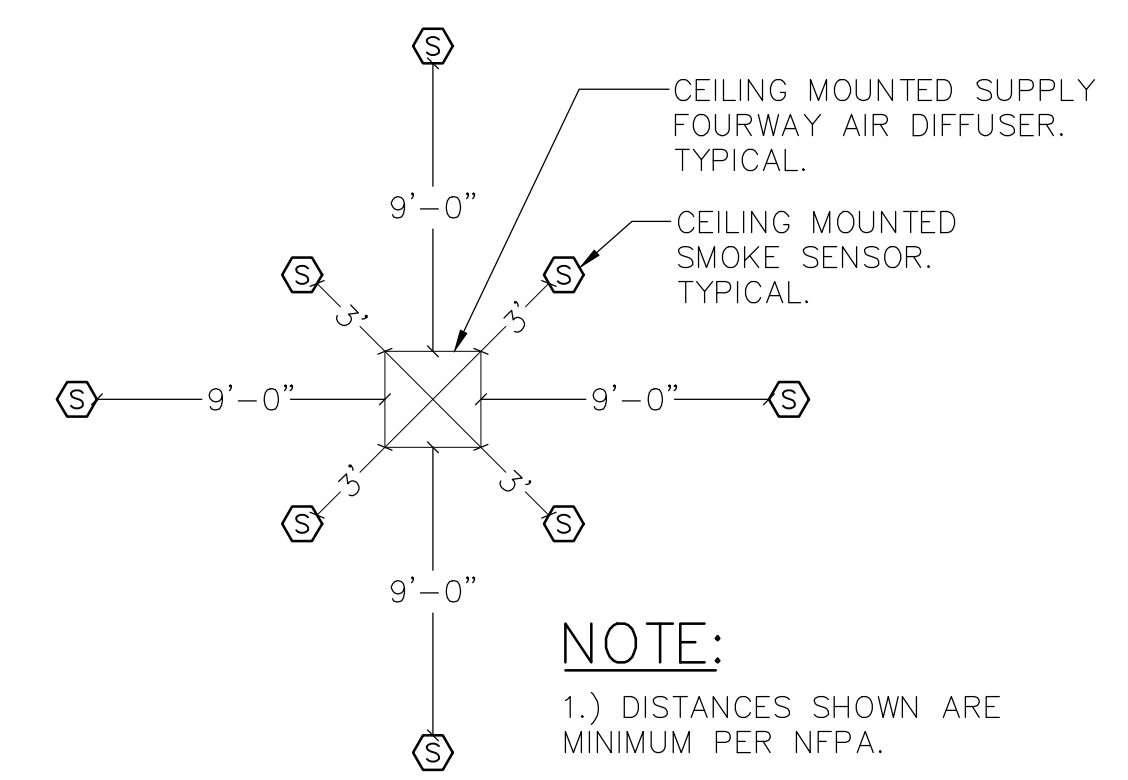
3 TYPICAL EXTERIOR MASONRY WALL ABOVE GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE



TRANSFORMER CLEARANCE NOTES:

- 1.) AREA IN FRONT OF DOOR TO BE CLEAR OF ALL ROCKS, STUMPS AND OTHER OBSTRUCTIONS SO THAT THE OPERATOR HAS A SAFE WORKING AREA.
- 2.) UTILITY COMPANY SHALL HAVE THE RIGHT TO CUT BACK GROWING BUSHES TO WITHIN STATED CLEARANCES.

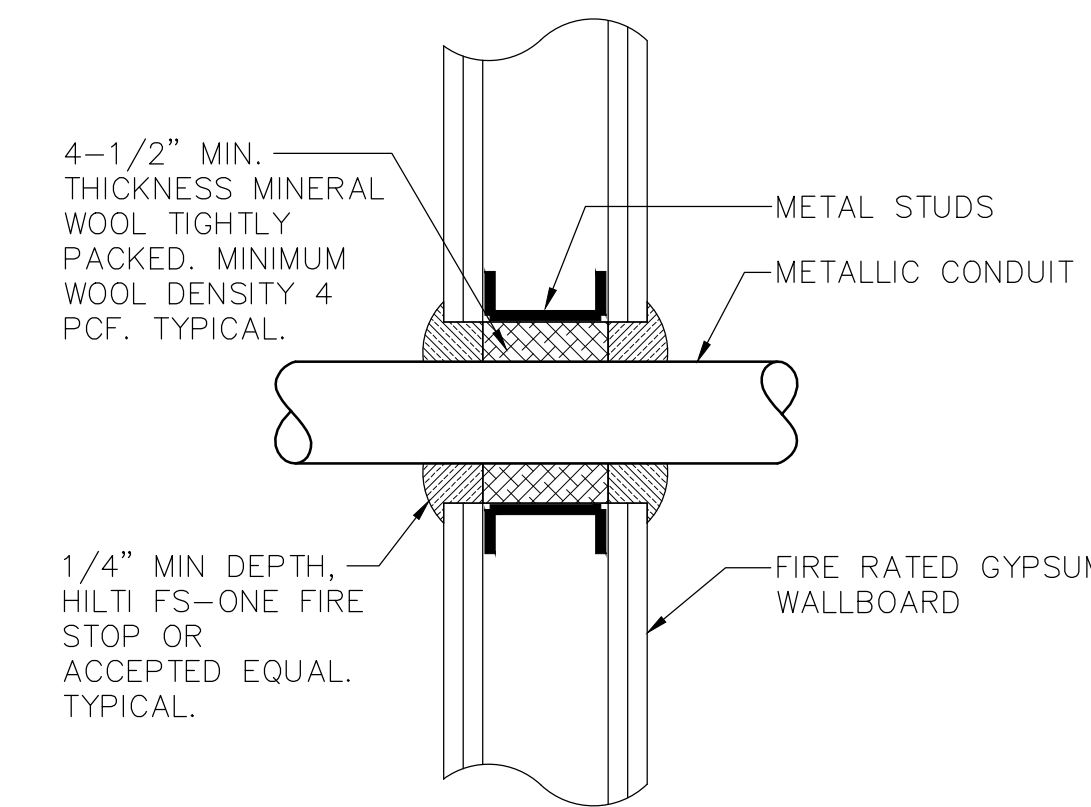
10 CLEARANCE FOR PLANTING AROUND TRANSFORMER PAD
SCALE: NONE



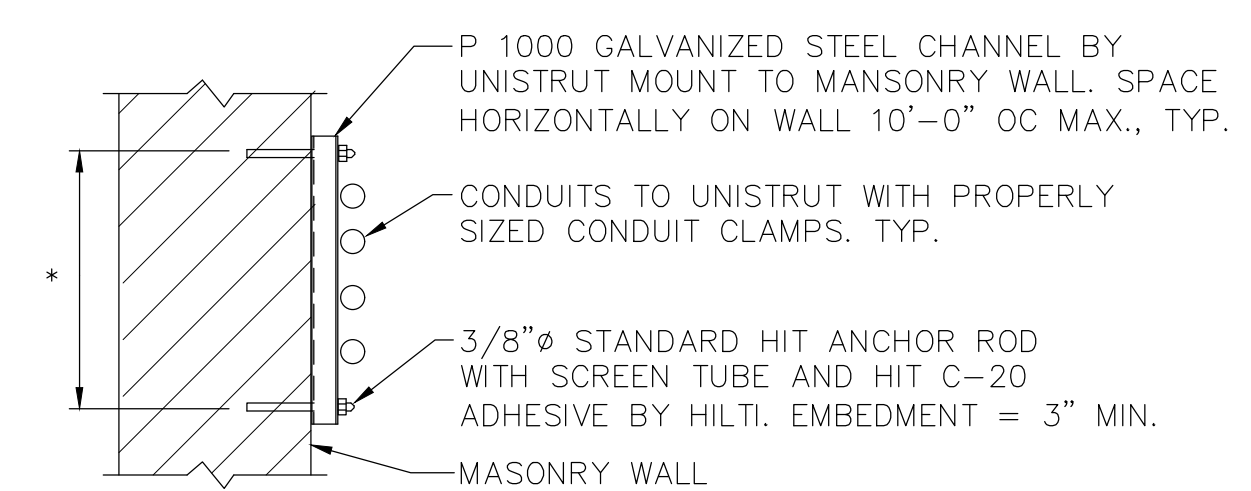
NOTE:

- 1.) DISTANCES SHOWN ARE MINIMUM PER NFPA.

8 CEILING MOUNTED SMOKE DETECTOR LOCATION WITH RESPECT TO AIR DIFFUSER
SCALE: NONE

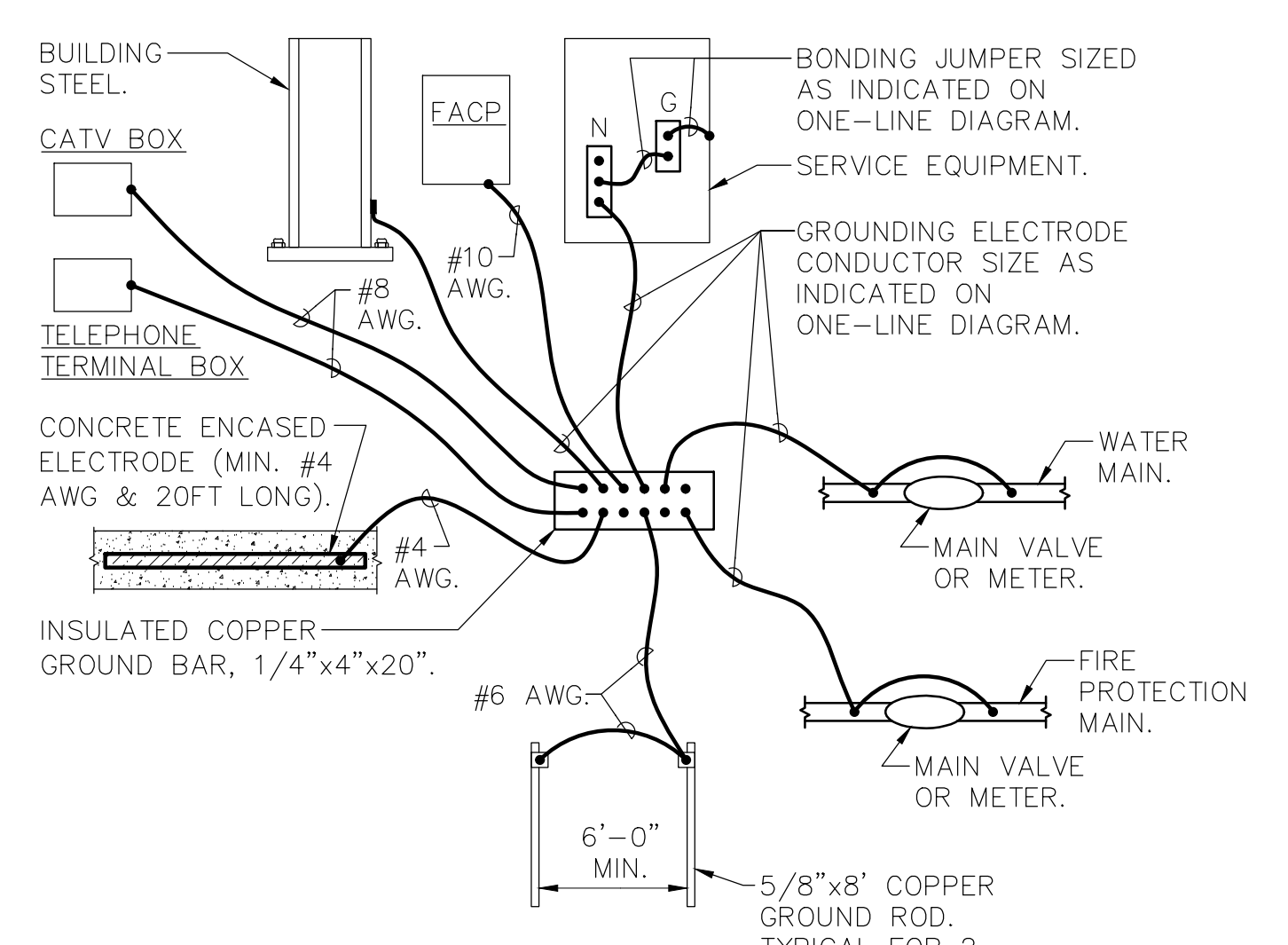


5 TYPICAL FIRE RATED GYPSUM WALL CONDUIT PENETRATION DETAIL
SCALE: NONE



* LENGTH AS REQUIRED FOR NUMBER OF CONDUITS

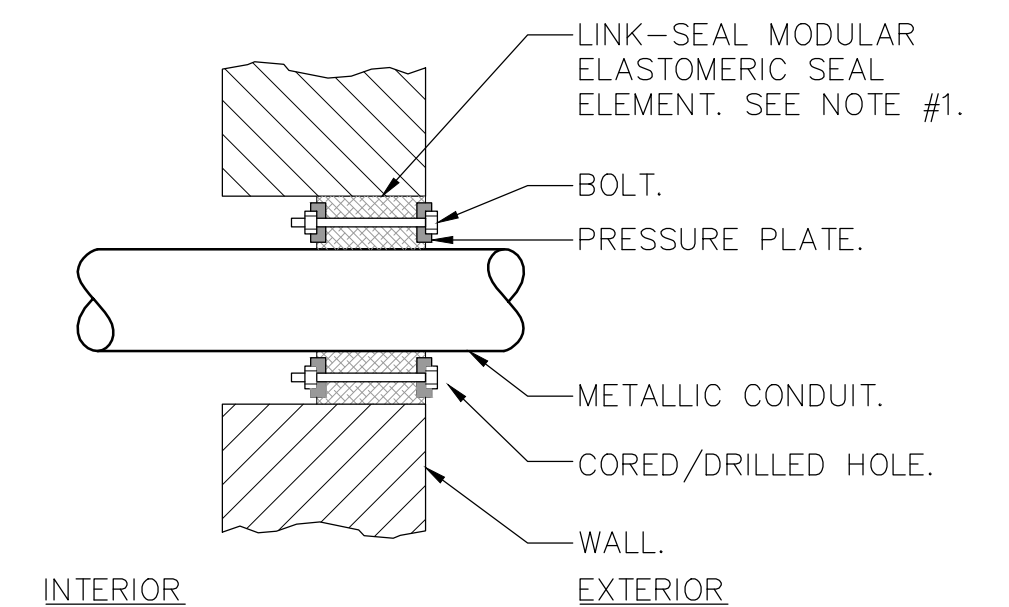
2 TYPICAL CONDUIT SUPPORT ON MASONRY
SCALE: 1" = 1'-0"



NOTES:

- 1.) CONNECTION TO WATER MAIN AND FIRE PROTECTION MAIN SHALL BE A MAXIMUM OF 5'-0" FROM WHERE THE PIPE ENTERS THE BUILDING AND BE PRIOR TO ANY METER, VALVE JOINT, ETC.
- 2.) ALL CONNECTIONS TO THE GROUND BAR SHALL BE MADE USING COMPRESSION LUGS SIZED TO ACCOMMODATE THE CONDUCTORS.

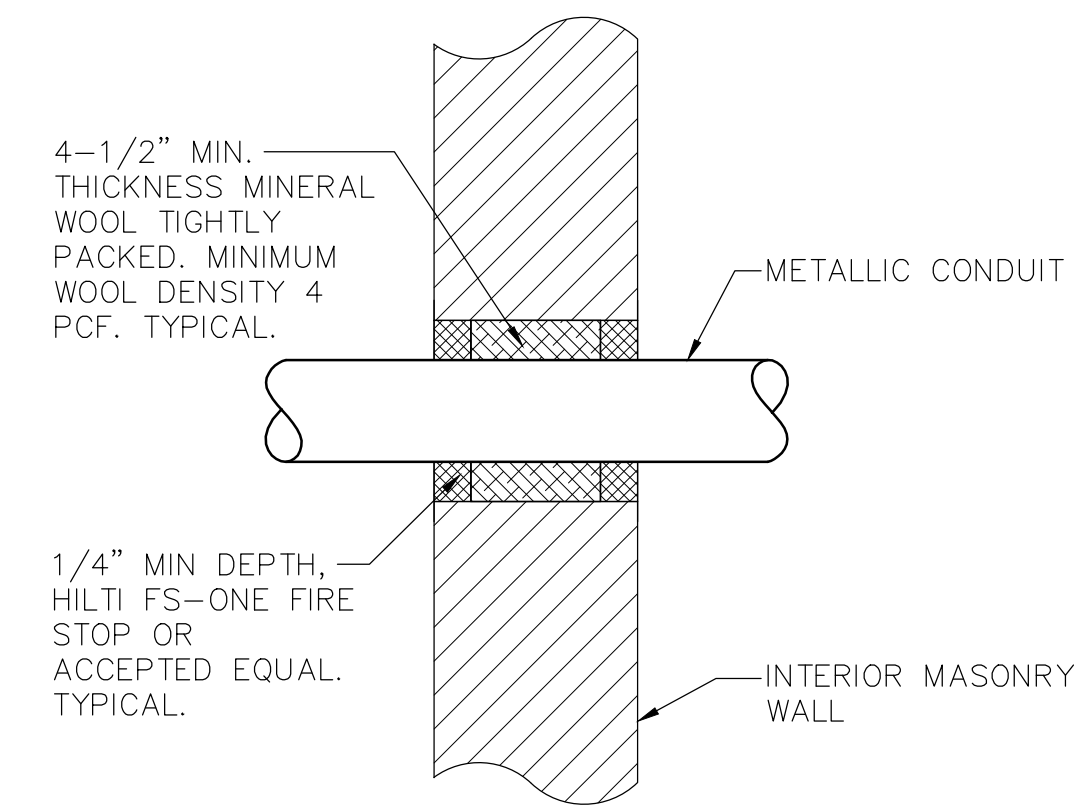
9 SERVICE GROUNDING DETAIL
SCALE: NONE



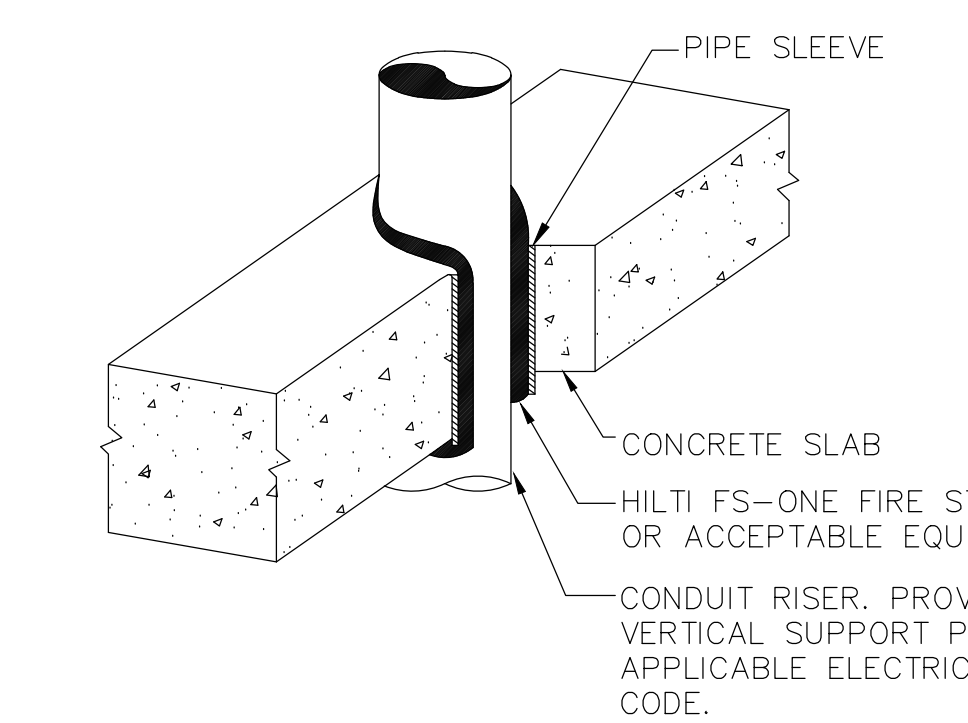
NOTES:

- 1.) SEAL ASSEMBLY BASED ON MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, REINFORCED NYLON POLYMER PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & CORROSION INHIBITING COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
- 2.) PROVIDE AND INSTALL TWO SEALS WHEN PENETRATED WALL THICKNESS IS GREATER THAN 12".
- 3.) PROVIDE SCHEDULE 80 WALL SLEEVE FOR NEW WALL CONSTRUCTION PER MANUFACTURER'S REQUIREMENTS.

7 TYPICAL EXTERIOR MASONRY WALL BELOW GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE



4 TYPICAL INTERIOR MASONRY WALL CONDUIT PENETRATION DETAIL
SCALE: NONE



1 TYPICAL VERTICAL CONDUIT PENETRATION DETAIL
SCALE: NONE

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Professional Seal

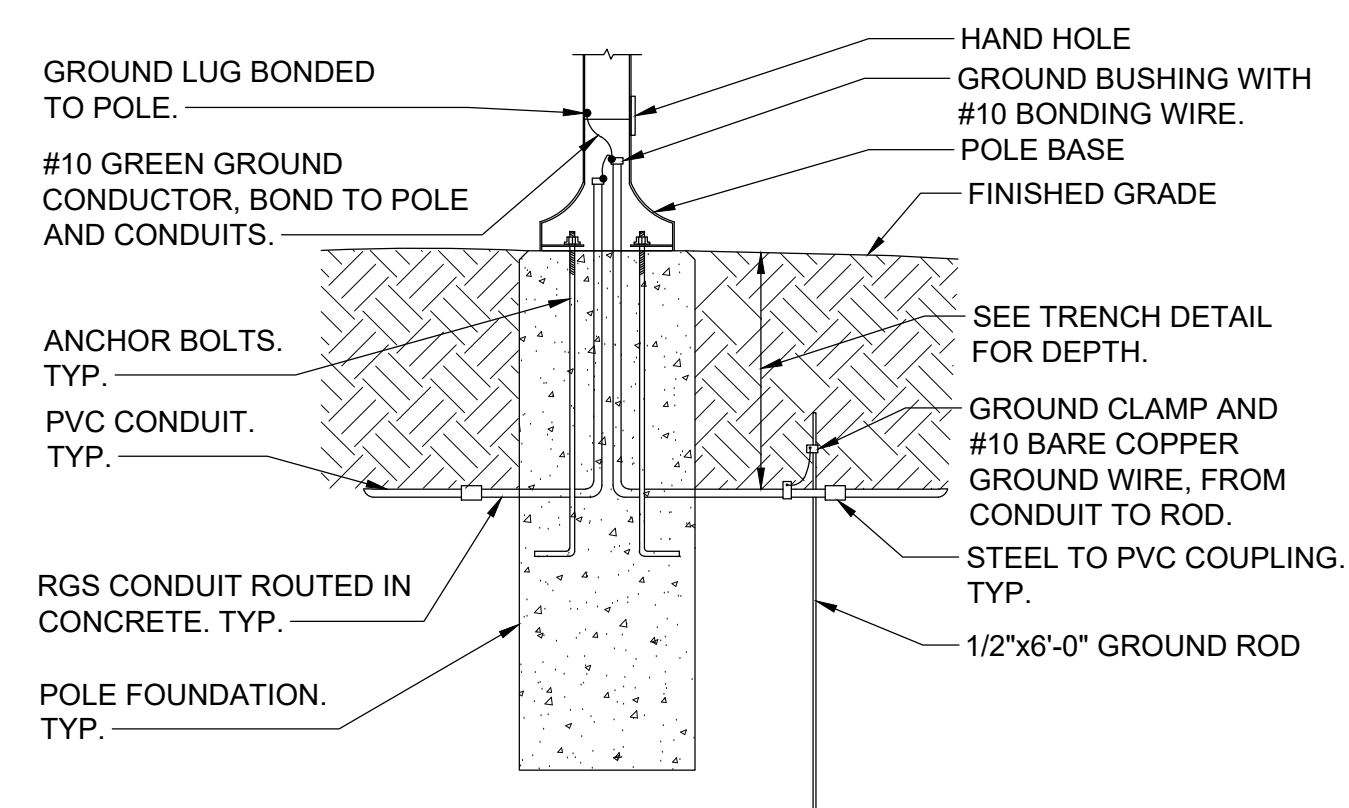
No.	Date	Issue
7	10/09/2024	CONFIRMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

**ELECTRICAL
DETAILS**

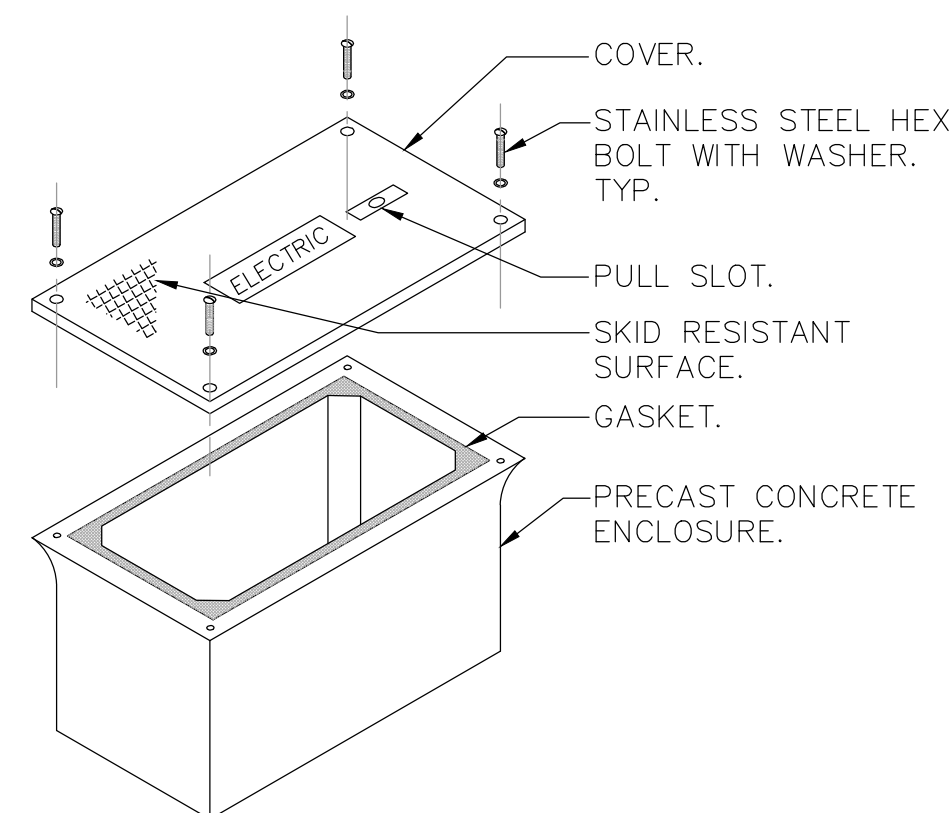
Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	JJ / MLDS

Sheet Number



NOTE:
1. THIS DETAIL PROVIDES ELECTRICAL GROUNDING/BONDING AND RACEWAY INFORMATION ONLY. SEE STRUCTURAL DRAWINGS FOR POLE FOUNDATION INFORMATION.

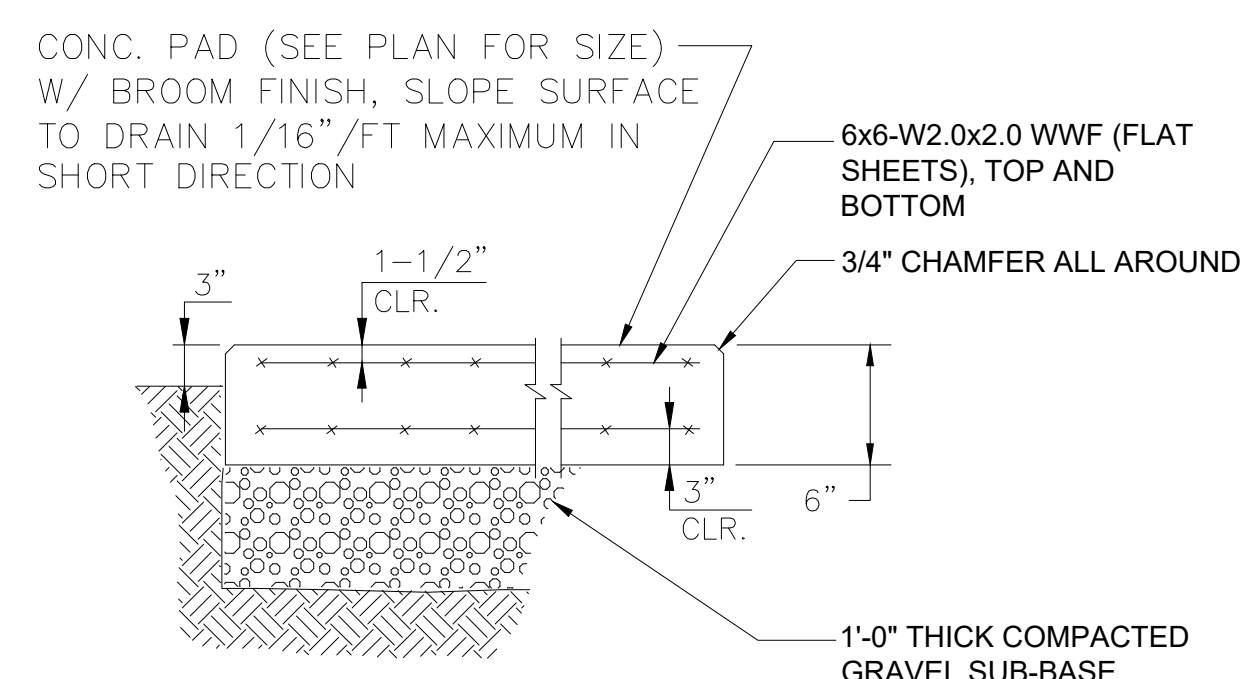
**12 LIGHT POST ELECTRICAL
INSTALLATION DETAIL**
SCALE: NONE



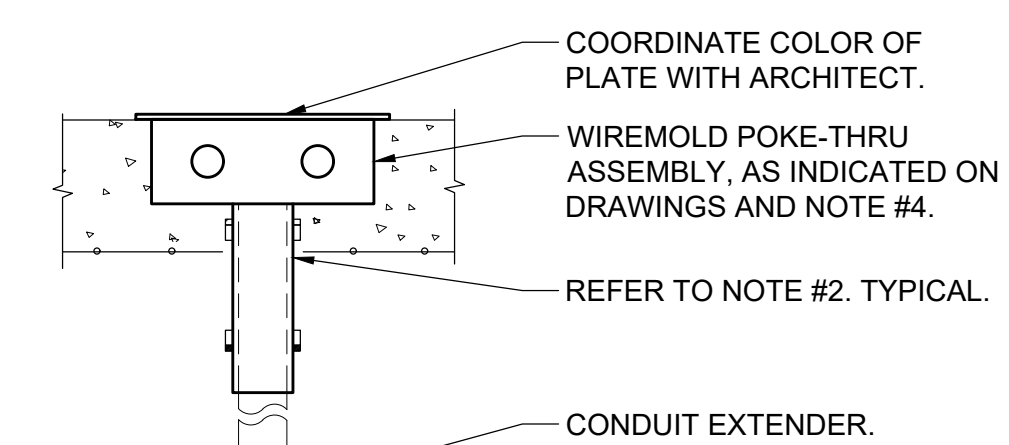
NOTES:

- HAND HOLE SHALL BE 18" L x 11" W x 12" H WITH OPEN BOTTOM AND RATED FOR VEHICULAR TRAFFIC AS MANUFACTURED BY QUAZITE, MODEL #PG118BA12 OR EQUAL. BOX SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- PROVIDE 6" OF GRAVEL BELOW BOX.
- COVER SHALL BE IMPRINTED WITH THE APPROPRIATE DESCRIPTION OF BOX CONTENTS (I.E. ELECTRIC, TELEPHONE, DATA, CABLE TV, ETC.).

9 HAND HOLE DETAIL
SCALE: NONE



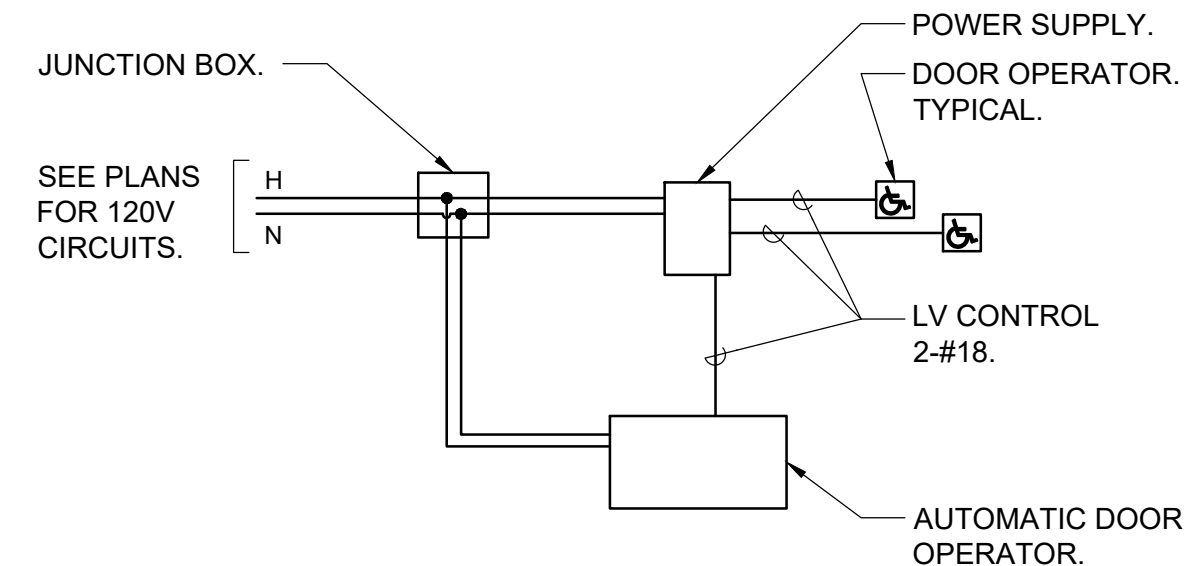
6 CONCRETE PAD DETAIL
N.T.S.



NOTES:

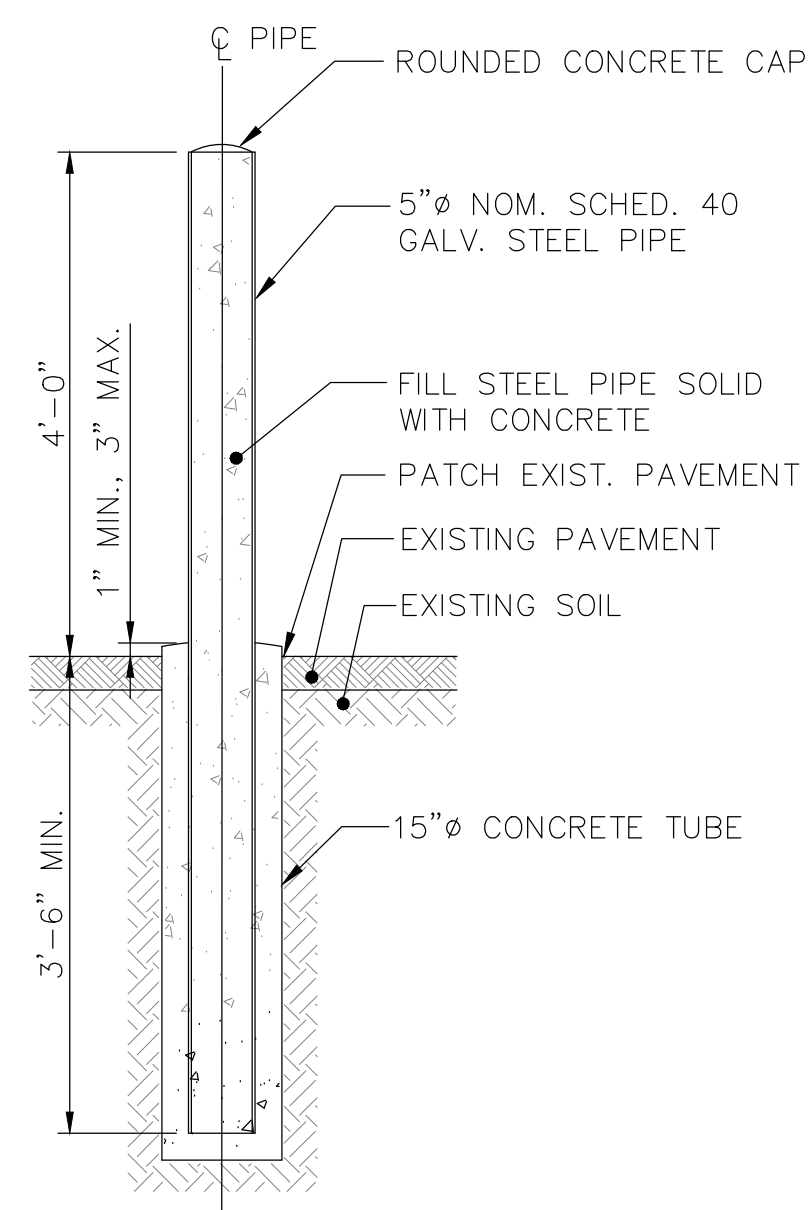
- FIRE STOP SLEEVE ON UPPER AND UNDERSIDE OF FLOOR SLAB WITH 3 HOUR RATED FIRE STOP AS MANUFACTURED BY SPECIFIED TECHNOLOGIES INC. (STI) SPEC SEAL SSS INTUMESCENT SEALANT OR APPROVED EQUAL.
- POKE-THRUS SHALL BE MIN. 2'-0" APART FROM EACH OTHER TO MAINTAIN FIRE RATING OF FLOOR.
- INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- POKE THRU MODEL NUMBERS:
A. POKE THRU WITH (1) DUPLEX 20A RECEPTACLE AND (2) CATEGORY 6 INSERTS WIREMOLD MODEL # R3A1TC OR APPROVED EQUAL.
B. POKE THRU COMBINATION POWER/DATA/TELEPHONE WITH (2) DUPLEX 20A RECEPTACLES & (4) CATEGORY 6 INSERTS WIREMOLD MODEL #RC4A1TC OR APPROVAL EQUAL.

3 POKE-THRU DEVICE INSTALLATION DETAIL
SCALE: NONE

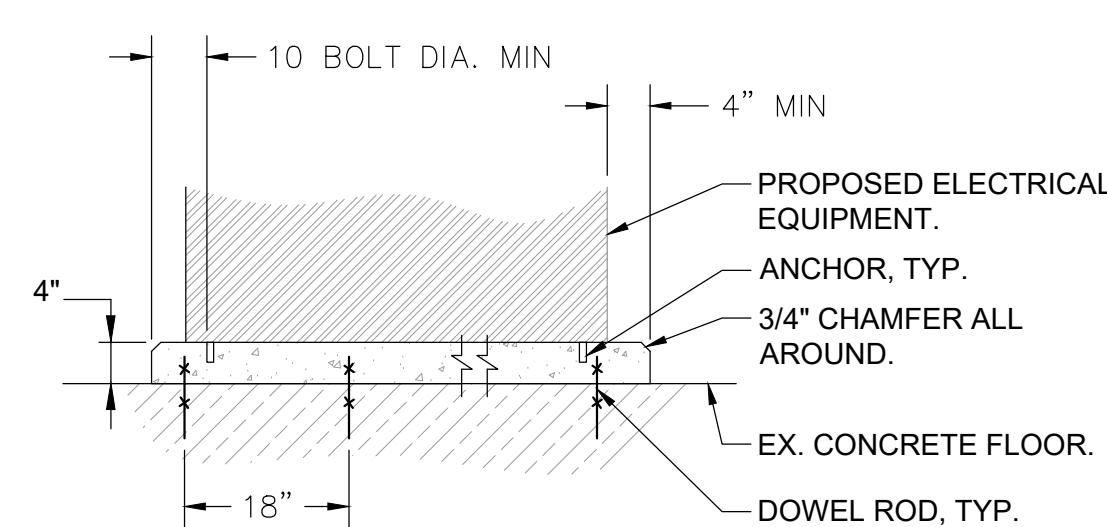


**11 TYPICAL ADA DOOR
OPERATOR WIRING DIAGRAM**
SCALE: NONE

- NOTES:**
- ELECTRICAL CONTRACTOR RESPONSIBLE TO PROVIDE ALL LINE AND LOW VOLTAGE CONTROL WIRING FOR ADA DOOR OPERATORS AS PER MANUFACTURER'S INSTRUCTIONS. ADA DOOR OPERATORS AND DEVICES TO BE FURNISHED BY THE GENERAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
 - COORDINATE ALL LOCATIONS WITH ARCHITECT.



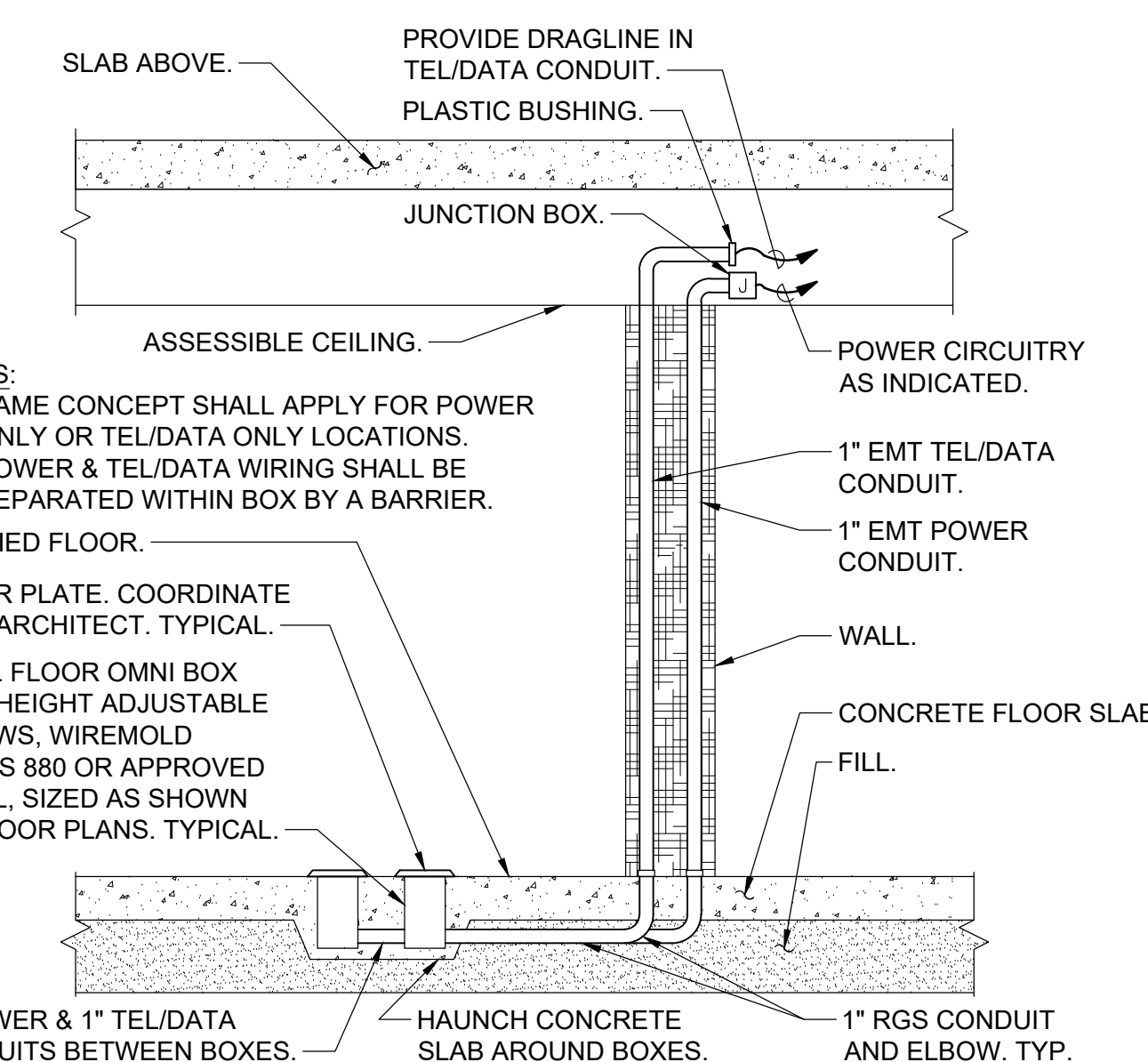
8 TYPICAL BOLLARD ON GRADE DETAIL
SCALE: NONE



NOTES:

- CONSTRUCT CONCRETE BASES OF DIMENSIONS INDICATED BUT NOT LESS THAN 4 INCHES LARGER IN BOTH DIRECTIONS THAN SUPPORTED UNIT, AND SO ANCHORS WILL BE A MINIMUM OF 10 BOLT DIAMETERS FROM EDGE OF THE BASE.
- USE 3000PSI, 28-DAY COMPRESSIVE-STRENGTH CONCRETE.
- ANCHOR EQUIPMENT TO CONCRETE BASE AS FOLLOWS:
a. INSTALL DOWEL RODS TO CONNECT CONCRETE BASE TO CONCRETE FLOOR. UNLESS OTHERWISE INDICATED, INSTALL DOWEL RODS ON 18-INCH CENTERS AROUND THE FULL PERIMETER OF CONCRETE BASE.
b. PLACE AND SECURE ANCHORAGE DEVICES. USE SUPPORTED EQUIPMENT MANUFACTURER'S SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.
c. INSTALL ANCHOR BOLTS TO ELEVATIONS REQUIRED FOR PROPER ATTACHMENT TO SUPPORTED EQUIPMENT AND ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

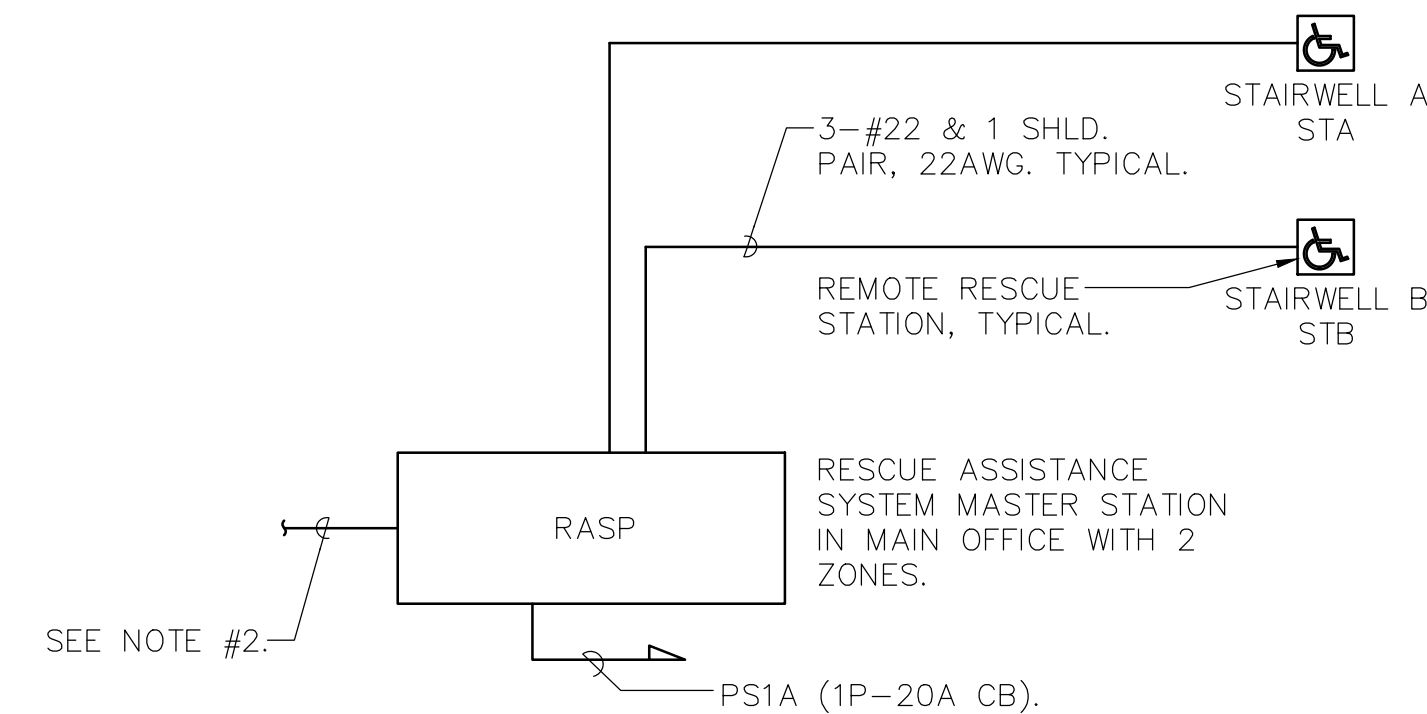
**5 INTERIOR CONCRETE
EQUIPMENT PAD DETAIL**
SCALE: NONE



NOTES:

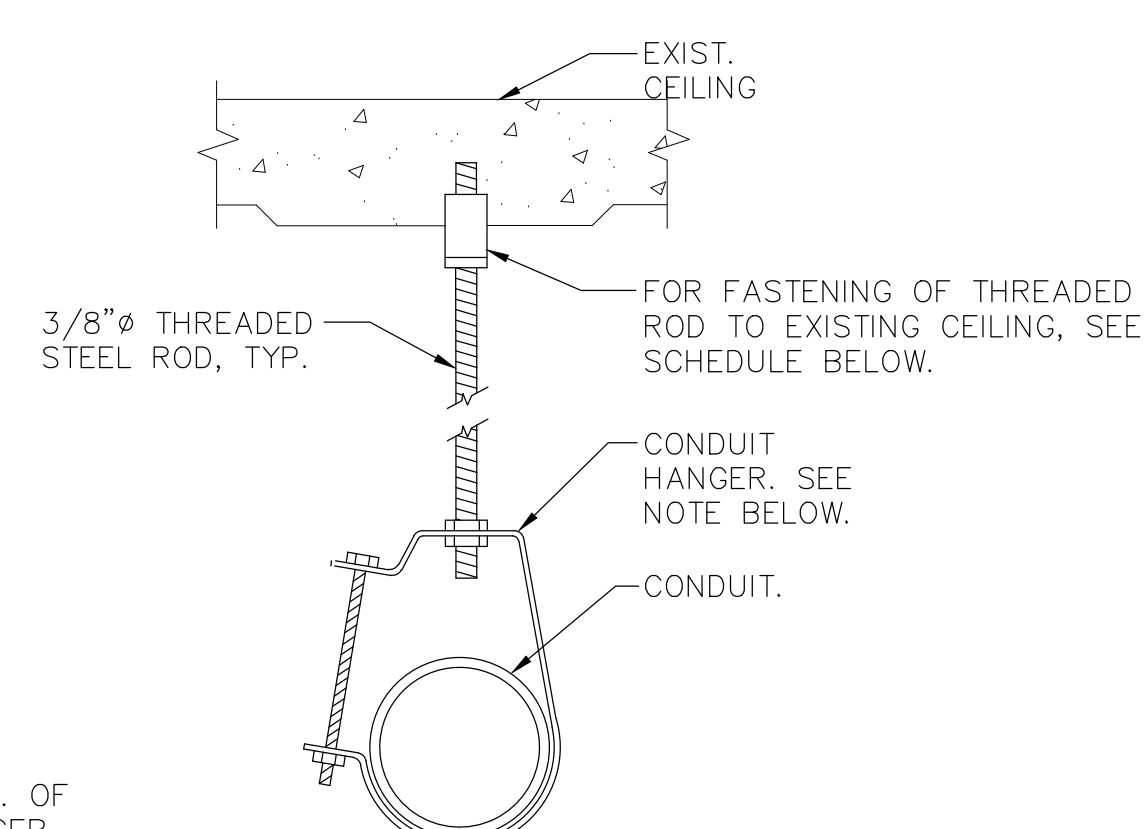
- SAME CONCEPT SHALL APPLY FOR POWER ONLY OR TEL/DATA ONLY LOCATIONS.
 - POWER & TEL/DATA WIRING SHALL BE SEPARATED WITHIN BOX BY A BARRIER.
- FINISHED FLOOR.
COVER PLATE. COORDINATE WITH ARCHITECT. TYPICAL.
STEEL FLOOR OMNI BOX WITH HEIGHT ADJUSTABLE SCREWS 880 OR APPROVED EQUAL. SIZED AS SHOWN ON FLOOR PLANS. TYPICAL.
1" POWER & 1" TEL/DATA CONDUITS BETWEEN BOXES.
HAUNCH CONCRETE SLAB AROUND BOXES.
1" RGS CONDUIT AND ELBOW. TYP.

2 FLOOR BOX INSTALLATION DETAIL
SCALE: NONE



**10 RESCUE ASSISTANCE SYSTEM
RISER DIAGRAM**
SCALE: NONE

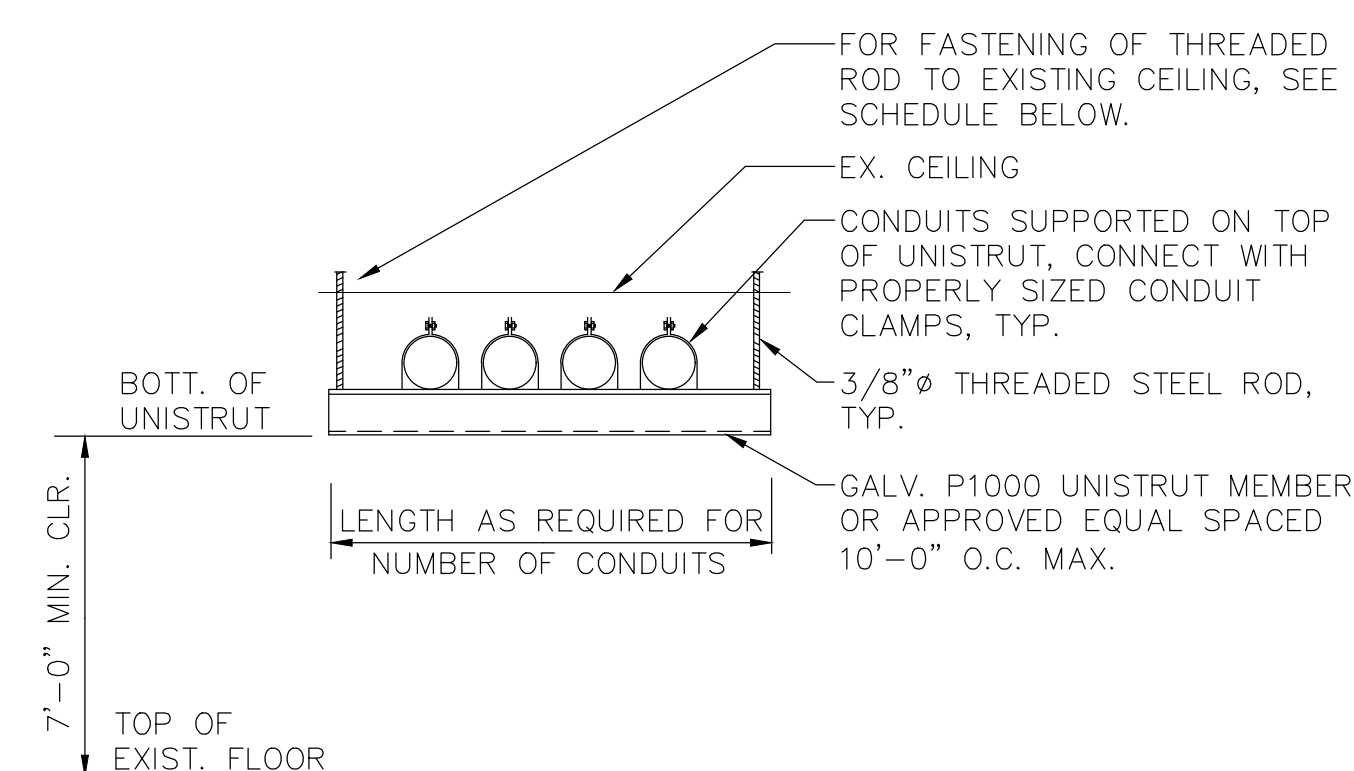
- NOTES:**
- PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING REQUIRED.
 - PROVIDE A PHONE LINE PLUS A DIALER FOR RESCUE ASSISTANCE SYSTEM MASTER STATION.



CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

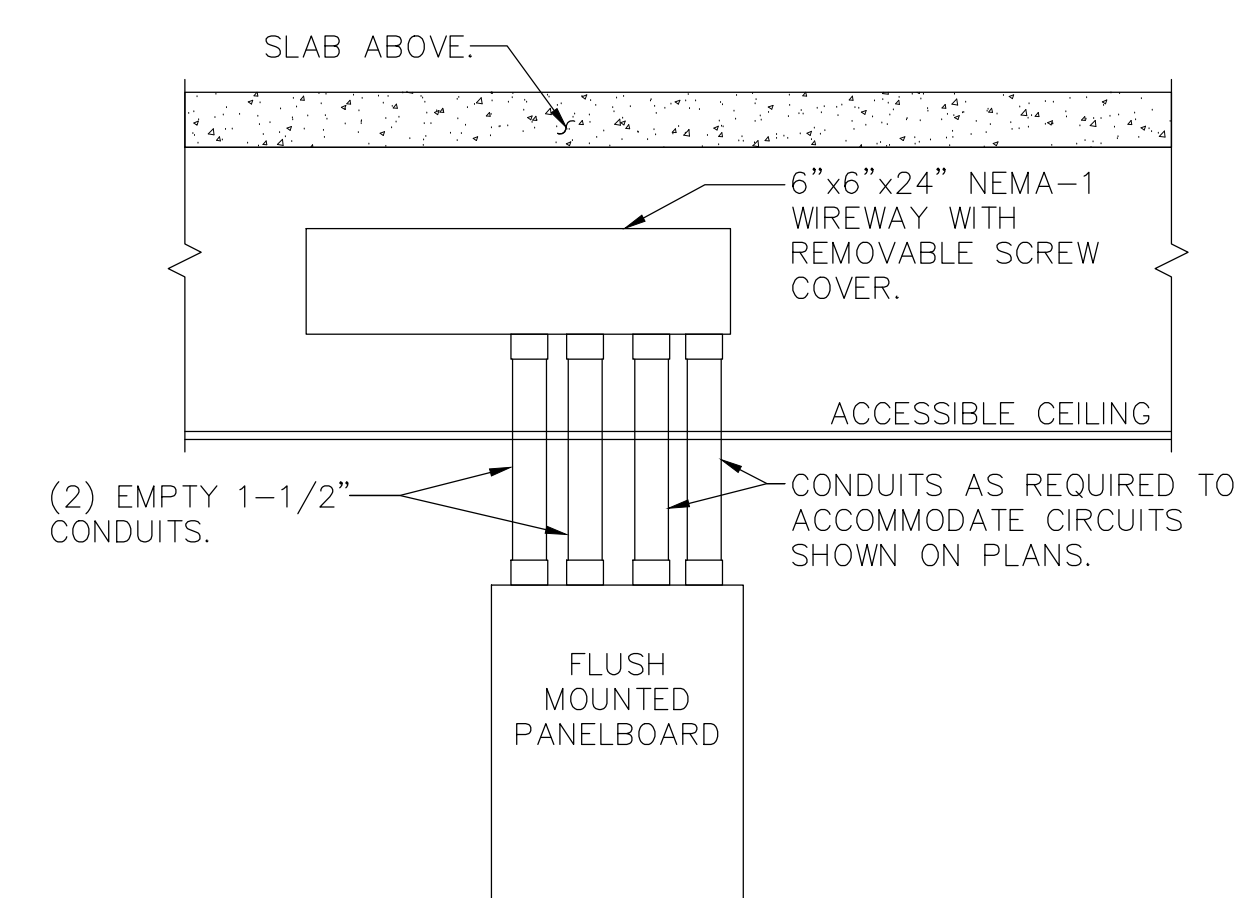
NOTE: CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1". GENERAL PURPOSE HANGERS MAY BE USED ON PIPING 1" OR SMALLER.

7 SINGLE CONDUIT HANGER DETAIL
SCALE: NONE



CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

4 TRAPEZE SUPPORT DETAIL
SCALE: NONE



NOTES:

- IN ADDITION TO CONDUITS FOR CIRCUITS INSTALLED AS PER PLANS, INSTALL ADDITIONAL EMPTY CONDUITS AS INDICATED ABOVE FOR FUTURE CIRCUITS.
- CONDUITS BETWEEN PANELBOARD AND WIREWAY TO BE CONCEALED WITHIN PARTITION.

1 FLUSH MOUNTED PANELBOARD DETAIL
SCALE: NONE

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

**ELECTRICAL
DETAILS**

Job No. NKGD0207.00 Date 03/01/2024

Scale AS NOTED Drawn / Checked JJ / MLDS

Sheet Number

E-702

15 KV CABLE TESTING:

- REFERENCES: ANSI/IEEE C2 – NATIONAL ELECTRICAL SAFETY CODE, ANSI/NFPA 70 – NATIONAL ELECTRICAL CODE, IEEE 48 – TEST PROCEDURES AND REQUIREMENTS FOR HIGH-VOLTAGE ALTERNATING-CURRENT CABLE TERMINATIONS.
- SUBMITTALS: PROVIDE FOR CABLE, TERMINATIONS, ACCESSORIES & TEST REPORTS. MANUFACTURER'S INSTRUCTIONS; INDICATE APPLICATION CONDITIONS AND LIMITATIONS OF USE STIPULATED BY PRODUCT TESTING AGENCY SPECIFIED UNDER REGULATORY REQUIREMENTS.
- PROJECT RECORD DOCUMENTS: ACCURATELY RECORD ACTUAL SIZES AND LOCATIONS OF CABLES.
- OPERATION AND MAINTENANCE DATA: INCLUDE INSTRUCTIONS FOR TESTING AND CLEANING CABLE AND ACCESSORIES.
- QUALIFICATIONS: MANUFACTURER, COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE. INSTALLER, COMPANY SPECIALIZING IN INSTALLING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.
- MANUFACTURERS: 1) OKONITE COMPANY, 2) KING WIRE INC. 3) KERITE.
- FIELD QUALITY CONTROL: INSPECT EXPOSED CABLE SECTIONS FOR PHYSICAL DAMAGE, PROPER CONNECTIONS AS SHOWN ON DRAWINGS AND AS REQUIRED, GROUNDING, CABLE SUPPORTS, AND TERMINATIONS FOR PROPER INSTALLATION. PERFORM DC HIGH-POTENTIAL TEST OF EACH CONDUCTOR IN ACCORDANCE WITH NEMA WC 8 AND THE FOLLOWING REQUIRED TESTS.
- THE 15KV CABLE SHALL BE DC PROOF TESTED BY AN INDEPENDENT TESTING FIRM. THE ATTACHED DC PROOF TESTING FORM SHALL BE COMPLETED BY THE TESTING FIRM AND SUBMITTED FOR REVIEW.
- TEST LEVELS: A DIRECT-CURRENT VOLTAGE TEST SHALL BE MADE FOR SOLID DIELECTRIC CABLE IN ACCORDANCE WITH THE FOLLOWING TABLE:

RATED CIRCUIT VOLTAGE PHASE TO PHASE KV	DC TEST VOLTAGE KV
15	40

- THE VOLTAGE SHALL BE APPLIED BETWEEN THE CONDUCTOR AND THE METALLIC SHEATH, SHIELD OR CONCENTRIC NEUTRAL WIRES.
 - THE MAXIMUM APPLIED DIRECT-CURRENT VOLTAGE SHALL NOT BE GREATER THAN THREE (3) TIMES THE ALTERNATING CURRENT VOLTAGE RATING OF THE CABLE OR CABLE ACCESSORY.
 - THE RATE OF INCREASE FROM THE INITIALLY APPLIED VOLTAGE TO THE SPECIFIED TEST VOLTAGE SHALL BE APPROXIMATELY UNIFORM AND SHALL NOT BE OVER 100 PERCENT IN 10 SECONDS OR LESS THAN 100 PERCENT IN 60 SECONDS.
 - THE DURATION OF THE TEST SHALL BE 15 MINUTES AT FULL VOLTAGE AND THE LEAKAGE CURRENT SHALL NOT BE RECORDED UNTIL AT FULL VOLTAGE. THE CABLE MUST MAINTAIN THE SPECIFIED TEST VOLTAGE FOR THE DURATION OF THE TEST TO BE CONSIDERED ACCEPTABLE.
- PREPARATION FOR TESTING: THE INDEPENDENT TESTING COMPANY PERSONNEL SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:
 - SAFETY – (TO PRECLUDE ACCIDENTAL CONTACT WITH THE CABLE(S) BEING TESTED)
 - THE TEST AREA AND THE CABLE (S) UNDER TEST SHALL BE ROPED OFF.
 - "DANGER-HIGH VOLTAGE" SIGNS SHALL BE DISPLAYED AROUND ALL ROPED OFF AREAS.
 - TEST PERSONNEL SHALL BE STATIONED AT ALL EXPOSED CABLE TERMINATIONS.
 - CLEARANCES – THE CABLE UNDER TEST MUST BE COMPLETELY ISOLATED FROM ALL EQUIPMENT.
 - TO REDUCE LEAKAGE CURRENT DURING TESTING, CLEAN THE TERMINATIONS AND COVER ANY EXPOSED METALLIC SURFACES WITH PLASTIC WRAP OR DUCT SEAL TO REDUCE CORONA EFFECTS.
 - MAINTAIN A CLEARANCE OF AT LEAST TWO FEET BETWEEN TEST POINT OR EXPOSED CABLE ENDS UNDER TEST AND ANY UNENERGIZED SURFACE AND AT LEAST THREE FEET BETWEEN TEST POINT OR EXPOSED CABLE ENDS AND ANY ENERGIZED SURFACE (BUS IN SWITCHGEAR, OTHER CIRCUITS OR CABLES, ETC.)
 - GROUNDING:
 - THE METALLIC SHIELDS (CONCENTRIC NEUTRALS, COPPER OR ZINC TAPES, DRAIN WIRES) OR METALLIC SHEATHS OF SHIELDED CABLE MUST BE GROUNDED DURING THE TEST.
 - CABLES NOT UNDER TEST MUST BE GROUNDED ON BOTH CONDUCTORS AND METALLIC SHEATHS.
 - AFTER EACH CABLE TEST THE CABLE SHALL BE ALLOWED TO DISCHARGE TO 10KV OR BELOW BEFORE APPLYING A GROUND. AN APPROPRIATE GROUNDING STICK OR RUBBER GLOVE SHALL BE USED AND/OR WORN WHEN APPLYING THE GROUND. GROUND MUST REMAIN ON FOR AT LEAST 15 MINUTES TO DRAIN CHARGE FROM TESTING.
 - CONNECTIONS
 - ALL BOLTED TERMINATIONS SWITCHES SHALL BE UNBOLTED AND PULLED INTO CLEARANCES AS NOTED ABOVE.
 - ALL LEADS EXTENDING FROM THE TOP OF ANY TERMINATION TO OVERHEAD LINES MUST BE REMOVED AND THE TERMINATION LOWERED TO OBTAIN ADEQUATE CLEARANCE.
 - SAMPLE: REPORTING FORM – DC PROOF TESTING

REPORTING FORM – DC PROOF TESTING

TESTING COMPANY NAME _____
 CUSTOMER _____
 LOCATION _____
 DATE OF TEST _____ TESTER'S NAME _____
 HUMIDITY _____% TEMPERATURE _____
 WEATHER: CLOUDY _____ RAIN _____ SNOW _____
 FOG _____ SUNNY _____

PHASE IDENTIFICATION			
KV TEST VOLTAGE			
MICROAMPERES	μ	μ	μ
TEST SET LEAKAGE			
15 SECONDS			
30 SECONDS			
45 SECONDS			
1 MINUTE			
2 MINUTES			
3 MINUTES			
4 MINUTES			
5 MINUTES			
6 MINUTES			
7 MINUTES			
8 MINUTES			
9 MINUTES			
10 MINUTES			
11 MINUTES			
12 MINUTES			
13 MINUTES			
14 MINUTES			
15 MINUTES			

CABLE MANUFACTURER: _____
 CABLE RELATED VOLTAGE: _____
 OPERATING VOLTAGE: _____
 CONDUCTOR SIZE: _____
 TYPE OF INSULATION: _____
 NUMBER OF CONDUCTORS: _____
 LENGTH: _____
 AGE: _____
 TYPE OF JACKET: _____
 SEPARATE NEUTRAL: _____
 OR
 CONCENTRIC NEUTRAL WIRES: _____
 TYPE OF TERMINATIONS AT TEST
 END: _____

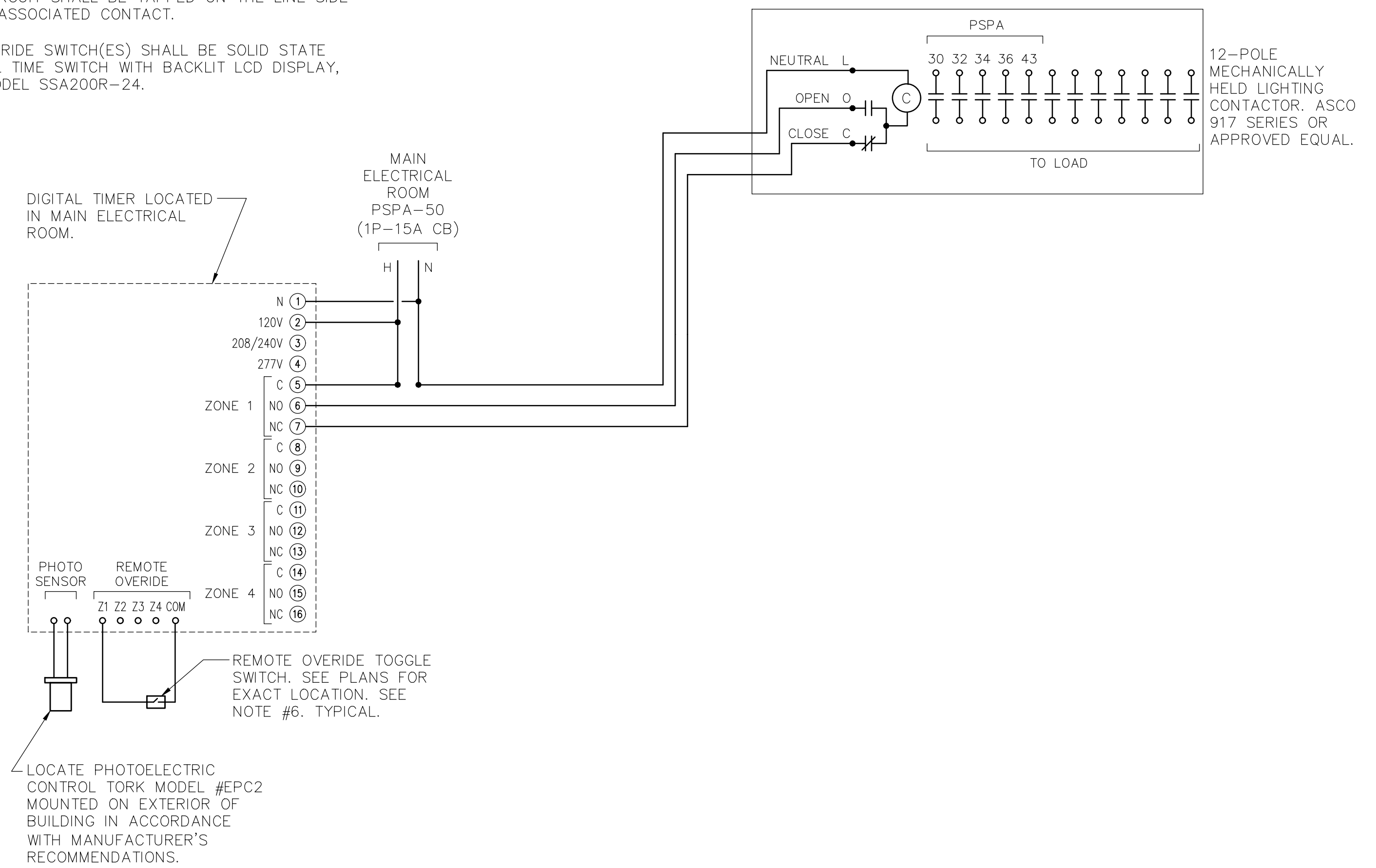
 TYPE OF TERMINATIONS AT
 OPPOSITE END: _____

 REMARKS: _____

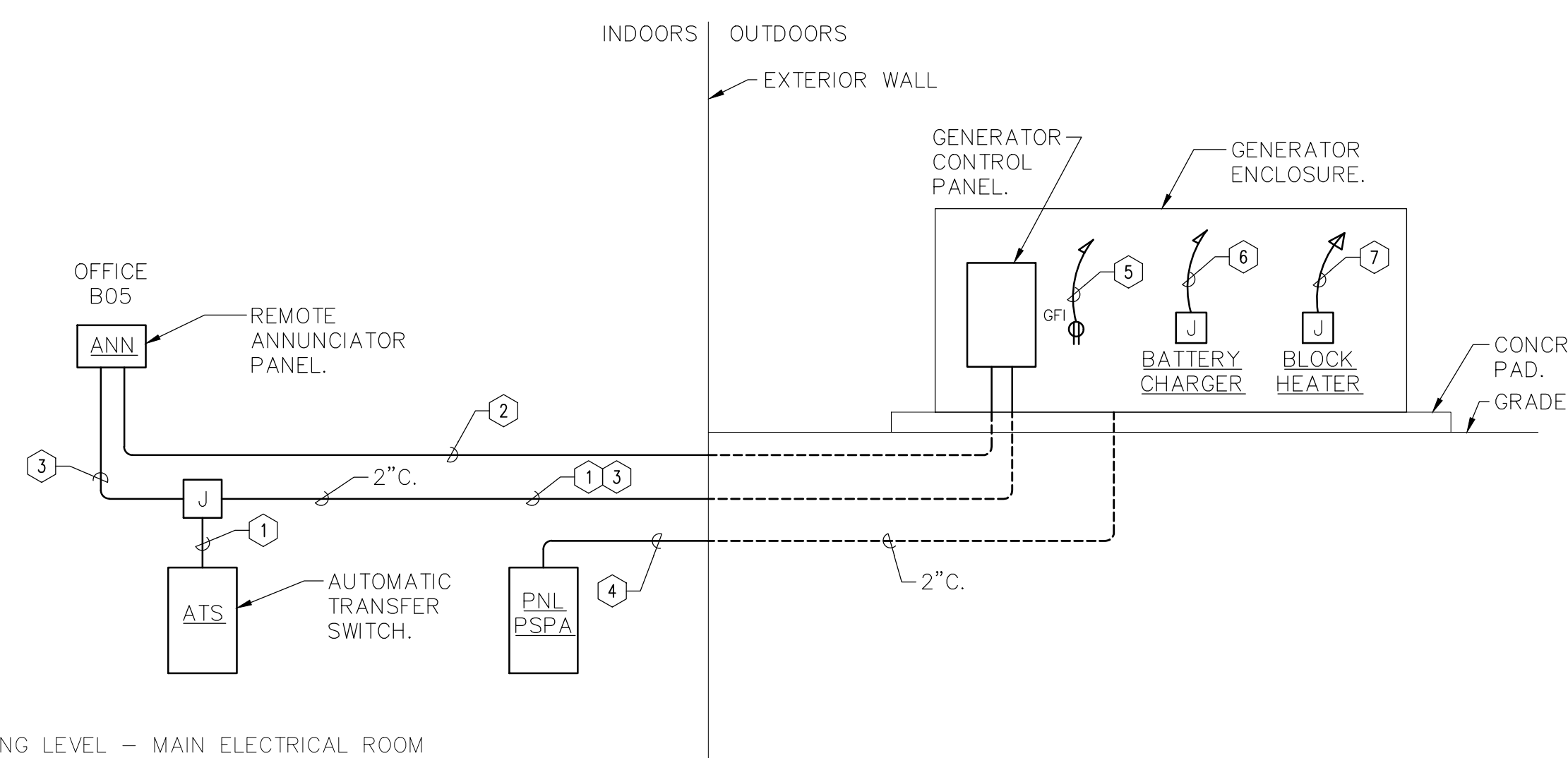
- PROTECTION:
 - PROTECT INSTALLED CABLES FROM ENTRANCE OF MOISTURE.

NOTES:

- TIMER SHALL BE A DEDICATED 4 ZONE DIGITAL LIGHTING CONTROLLER WITH PHOTO SENSOR INPUT. EACH ZONE SHALL BE CAPABLE OF INDEPENDENT USER SETTABLE CONTROL BASED ON TIME OF DAY, LIGHT LEVEL OR A COMBINATION OF BOTH. TIMER SHALL HAVE CAPABILITY TO BE OVERRIDDEN LOCALLY VIA KEYPAD AND/OR REMOTELY VIA STANDARD TOGGLE SWITCHES. TORK MODEL #DL400 OR EQUAL.
- DIGITAL TIMER SHALL BE PROGRAMMED AS FOLLOWS:
 ZONE 1: TIMER ON / TIMER OFF
 ZONE 2: PHOTOCELL ON / TIMER OFF
 ZONE 3: PHOTOCELL ON / PHOTOCELL OFF
 ZONE 4: (SPARE)
- LIGHTING CONTACTORS SHALL BE LOCATED ADJACENT TO ASSOCIATED PANELBOARDS U.O.N.
- LIGHTING CONTACTORS SHALL BE INSTALLED IN NEMA-1 ENCLOSURES EQUIPPED WITH LOCKABLE HINGED COVERS.
- POWER FOR FIXTURES AND CIRCUITS REQUIRED TO BE TAKEN FROM THE UNSWITCHED LEG OF A GIVEN CIRCUIT SHALL BE TAPPED ON THE LINE SIDE OF THE ASSOCIATED CONTACT.
- OVERRIDE SWITCH(ES) SHALL BE SOLID STATE INTERVAL TIME SWITCH WITH BACKLIT LCD DISPLAY, TORK MODEL SSA200R-24.



2 SITE LIGHTING CONTROL SCHEMATIC DIAGRAM
SCALE: NONE



1 GENERATOR CONTROL WIRING RISER DIAGRAM
SCALE: NONE

LEGEND:

- 4-#12 AWG. START CIRCUIT FROM AUTOMATIC TRANSFER SWITCH TO GENERATOR CONTROL PANEL.
- TWISTED SHIELDED PAIR – BELDEN #9841. COMMUNICATIONS CIRCUIT FROM GENERATOR CONTROL PANEL TO REMOTE ANNUNCIATOR.
- 2-#12 AWG. POWER FROM GENERATOR SET BATTERY TO REMOTE ANNUNCIATOR.
- POWER CONDUIT FOR BRANCH CIRCUITS TO GENERATOR SET. SEE CIRCUIT INFORMATION FOR ITEMS 5, 6 & 7 BELOW.
- PSPA-37
- PSPA-39
- PSPA-33,35

NOTES:

- WIRING ON THIS DETAIL SHOWN FOR INFORMATIONAL PURPOSES ONLY. COORDINATE EXACT SIZE, QUANTITY AND TYPE OF WIRING WITH MANUFACTURER'S SUGGESTION FOR EQUIPMENT PURCHASED.
- CONDUITS SHALL BE 1" U.O.N.
- SEE ONE-LINE DIAGRAM FOR POWER OUTPUT FEEDERS INFORMATION.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
 Town / Village of Harrison
 270 Harrison Avenue
 Harrison, NY 10528

KG+D listen imagine build
 KG+D ARCHITECTS, PC
 285 MAIN STREET- MOUNT KISCO, NEW YORK 10549
 P914.666.5900 KGDARCHITECTS.COM

OLA Consulting Engineers
 50 Broadway,
 Hawthorne, NY 10532
 914.747.2800
 8 West 38th Street,
 Suite 501
 New York, NY 10018
 646.849.4110
 olace.com

CONSTRUCTION DOCUMENTS

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1	03/31/2020	50% DESIGN DEVELOPMENT

ELECTRICAL DETAILS

Job No. NKGD0207.00 Date 03/01/2024
 Scale AS NOTED Drawn / Checked JJ / ML/DS
 Sheet Number

E-703

HARRISON RECREATION CENTER

270 HARRSON AVE
HARRISON, NY 10528

TELECOMMUNICATION BID SET

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

NOTE: THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

CONSTRUCTION DOCUMENTS

TELECOMMUNICATION DRAWING LIST

TC-000 TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND

FLOOR PLANS

TC-100 TELECOMMUNICATION LOWER LEVEL DEVICE PLAN
TC-101 TELECOMMUNICATION 1ST FLOOR DEVICE PLAN
TC-102 TELECOMMUNICATION 2ND FLOOR DEVICE PLAN

RISER DIAGRAMS

TC-200 TELECOMMUNICATION RISER DIAGRAMS

CLOSET DETAILS

TC-300 TELECOM CLOSET TC-1 AND TC-2 ELEVATION AND DETAILS

TYPICALS

TC-700 TELECOMMUNICATION DETAILS - 1
TC-701 TELECOMMUNICATION DETAILS - 2

MANUFACTURER	EQUIPMENT LIST	DESCRIPTION
ODC	STANDARD SIZE EYESTONE FACIPLATE 1 GANG, 2 PORT - P/N: PFS0112 OR EQUIVALENT	
ODC	STANDARD SIZE EYESTONE FACIPLATE 1 GANG, 2 PORT - P/N: PFS0112 OR EQUIVALENT	
ODC	STANDARD SIZE EYESTONE FACIPLATE 1 GANG, 4 PORT - P/N: PFS0412 OR EQUIVALENT	
ODC	CATS RJ45 CONNECTOR - P/N: 2020102 OR EQUIVALENT	
ODC	8 POSITION MODULAR JACK, CAT 4 MODULAR EYESTONE MOUNT, THERMOPLASTIC, BK/HT WHITE - P/N: KMA412 OR EQUIVALENT	
UHF	HIGH PERFORMANCE, CEILING-MOUNTED W/4 ACCESS POINT DESIGNED FOR LARGE OFFICES, 1500FT SQ. FT/WT - P/N: US-PS OR EQUIVALENT	
EATON	SURFACE MOUNT BOX FOR KEYSTONE JACKS - 1 PORT, WHITE, SURFACE MOUNT - P/N: 1002300-1WH OR EQUIVALENT	
ICC	CATS FEED THROUGH PATCH PANEL WITH 48 PORTS - P/N: ICMF48CP3 OR EQUIVALENT	
ICC	CATS FEED THROUGH PATCH PANEL WITH 48 PORTS AND 2 RJ45 - P/N: ICMF48CP3 OR EQUIVALENT	
INS	3U FIBER LU - P/N: RFC20-4APR OR EQUIVALENT	
INS	DUPLEX ADAPTER PLATE FOR FIBER LU - P/N: 61120MDC OR EQUIVALENT	
NAVPOINT	2U HORIZONTAL STEEL CABLE MANAGEMENT RACKWAY 2.8 INCHES DEEP, BLACK - P/N: 00404166 OR EQUIVALENT	
HOFMAN	LADDER RACK STRAIGHT SECTIONS - P/N: LS12BK OR EQUIVALENT	
HOFMAN	2U HORIZONTAL STEEL CABLE MANAGEMENT RACKWAY 2.8 INCHES DEEP, BLACK - P/N: 00404166 OR EQUIVALENT	
HOFMAN	CABLETRAY VERTICAL CABLE MANAGER DOUBLE ENDERS - P/N: ED1R1M4SU OR EQUIVALENT	
HOFMAN	4SU OPEN FRAME RACK 3 POST, BLACK, ALUMINUM - P/N: ED1R1M4SU OR EQUIVALENT	
HOFMAN	VERTICAL CABLE MANAGER DOUBLE, BLACK, ALUMINUM - P/N: DV1SD7 OR EQUIVALENT	
HOFMAN	TELECOM GROUND BAR KIT - P/N: DG1B212 OR EQUIVALENT	
HOFMAN	J-HOOK, 2 IN. 60 LB LOAD, STEEL - P/N: CA132P OR EQUIVALENT	
SANFLOT	INDOOR, MULTIMODE 50/25, PLENUM, OM2 FIBER CABLE	
ICD	OM2 LC LC DUPLEX FIBER PATCH CABLE 50/25 MULTIMODE	
REVAE	CATEGORY 6 ENHANCED 550 MHz PLENUM CABLE - P/N: 68N6 OR EQUIVALENT	

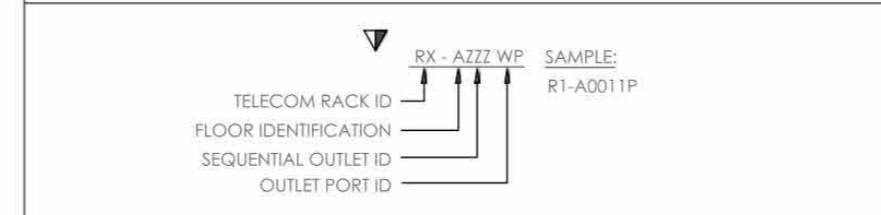
GENERAL NOTES

- TERMINATE RJ45 JACKS WITH 15688 FINNING.
- FURNISH AND INSTALL ALL TELECOM, AV AND SECURITY DEVICES SHOWN ON THE DRAWINGS. LABEL ALL CABLES WITHIN 12" OF FINAL TERMINATION.
- CONTRACTOR SHALL MAINTAIN THE TWIST OF INDIVIDUAL PAIRS TO WITHIN 1/2" OF FINAL TERMINATION FOR ALL.
- USE CATEGORY 6 OR HIGHER CABLES.
- TECHNOLOGY DRAWINGS ARE TO BE USED FOR CABLE SYSTEM INSTALLATION AND COORDINATION WITH OTHER CONTRACTORS AND SYSTEMS. PRIOR TO THE COMMENCEMENT OF INSTALLATION OF ANY ELEMENTS OF THE CABLE SYSTEM, THE CONTRACTOR:
- MEET WITH OWNER'S REPRESENTATIVES AND SUBMIT FOR APPROVAL INSTALLATION DETAILS INCLUDING CABLE ROUTING, WORK SCHEDULING, MATERIALS DELIVERY AND ANY OTHER DETAILS PERTINENT TO THE WORK.
- ALL MATERIAL SHALL BE INSTALLED IN COMPLIANCE WITH ALL CODE REQUIREMENTS, MANUFACTURER'S INSTRUCTIONS AND PRACTICES UNLESS WRITTEN DIRECTION TO THE CONTRARY IS PROVIDED.
- PROVIDE ALL SLEEVES AS SHOWN ON DRAWINGS UNLESS ALREADY PROVIDED BY ELECTRICAL CONTRACTOR.
- USE ONLY HOOK AND LOOP CABLE TIES (VELCRO) FOR CABLES WITH HIGHER THAN CATEGORY 3 RATING.
- ALL LABELS SHALL BE MACHINE PRINTED.
- USE ONLY PLENUM RATED CABLES.
- DO NOT RUN TELECOMMUNICATION CABLES PARALLEL TO POWER CABLES. CROSS POWER CABLES ONLY AT RIGHT ANGLES.
- MAINTAIN 8" DISTANCE FROM ALL LIGHTING TRANSFORMERS.
- SPRUNG OF CABLES IS NOT PERMITTED EXCEPT IF SPECIFICALLY NOTED.
- COLOR AND STYLE OF TELECOMMUNICATION FACE PLATES SHALL MATCH ELECTRICAL FACE PLATES AND BE COORDINATED WITH ARCHITECT.
- ALL OUTLET MOUNTING HEIGHTS AS PER ARCHITECT, UNLESS OTHERWISE NOTED.
- COMPLY WITH ALL BUILDING REGULATIONS AND COORDINATE ACCESS WITH BUILDING MANAGEMENT. OBTAIN ALL REQUIRED APPROVAL FROM BUILDING MANAGEMENT.
- OBTAIN AND EXTEND TO OWNER ALL AVAILABLE MANUFACTURER AND SYSTEM WARRANTIES.
- CONTRACTOR SHALL COORDINATE ANY CUTS WITH OWNER'S REPRESENTATIVE PRIOR TO ANY WORK. IN AREAS WITH EXISTING SOLO CEILING CONTRACTOR SHALL CUT AND PATCH OPENINGS TO PERMIT CABLE INSTALLATION.
- CONTRACTOR SHALL RESTORE CEILING AND WALLS AND ANY OTHER SURFACES AFFECTED BY THE WORK PRIOR TO ACCEPTANCE WITH USE MATERIALS TO MATCH EXISTING CONSTRUCTION.
- CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILES AND THEIR SUPPORTING FRAMEWORK STRUCTURE WITH MATCHING MATERIALS IN ACCESSIBLE CEILING AREAS.
- ALL CABLES RUN ABOVE CEILING SHALL BE PROPERLY SUPPORTED WITH ADJUSTABLE CABLE SUPPORTS MOUNTED TO SLAB AT MINIMUM OF 9" INTERVALS. NO CABLES SHALL REST OR TOUCH CEILING ASSEMBLIES.
- WHERE BACK TO BACK ELECTRICAL/TELECOM OUTLETS ARE INDICATED ON EACH SIDE OF THE SAME PARTITION/WALL, OUTLET BOXES SHALL BE STAGGERED MINIMUM 16" FOR ACCESSIBILITY.
- POWER AND PATHWAYS BY BASE BUILDING ELECTRICAL CONTRACTOR [EC]
- LOW VOLTAGE CONTRACTOR (LVC) IS TO FURNISH AND INSTALL ALL MATERIALS INCLUDING: CISCO SWITCHED, FIBER MODULES, WAP (WIRELESS ACCESS POINT) NEEDED LICENSES ETC. AND PROGRAM ALL TO MEET CUSTOMER'S DIRECTION

CABLING TERMINATION NOTES:

- AT THE OUTLET, TERMINATE VOICE/DATA UTP CABLES ON THE RJ-45 TYPE JACKS IN THE FACEPLATE / REEL / FLOOR BOX.
- IN THE OFF ROOMS, TERMINATE VOICE/DATA UTP CABLES ON THE CORRESPONDING 48-PORT PATCH PANELS MOUNTED ON THE 19" RACKS.
- ADDITIONAL CABLE SLACK SHALL BE PROVIDED FOR ALL TELECOMMUNICATIONS WORKSTATION CABLING.
 - MINIMUM OF 10" IN THE SERVING OF CLOSET.
 - MINIMUM OF 3" IN OUTLET LOCATIONS WITH A SLUG UP TO A SUSPENDED CEILING.
 - MINIMUM OF 8" AT THE OUTLET.
 - MINIMUM OF 12" IN A FIBER OPTIC CONFIGURATION AT WAP OUTLET LOCATIONS.
- CABLE SLACK SHALL BE STORED IN AN EXTENDED LOOP OR FIBER OPTIC CONFIGURATION.
- PROVIDE SERVICE LOOP FOR ALL FIBER OPTIC CABLING INSTALLED. CABLE SLACK SHALL BE INSTALLED IN A FIBER OPTIC CONFIGURATION.
- USE APPROPRIATE FIBER TERMINATIONS LUGS, USING LC TYPE CONNECTORS.

OUTLET KEY LEGEND

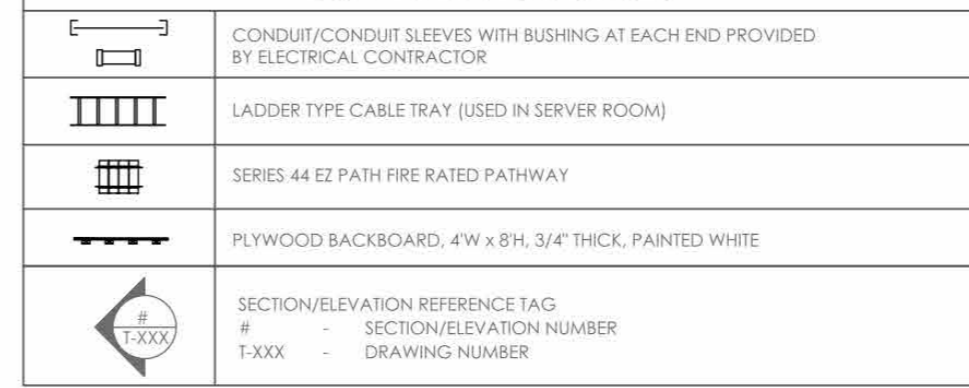


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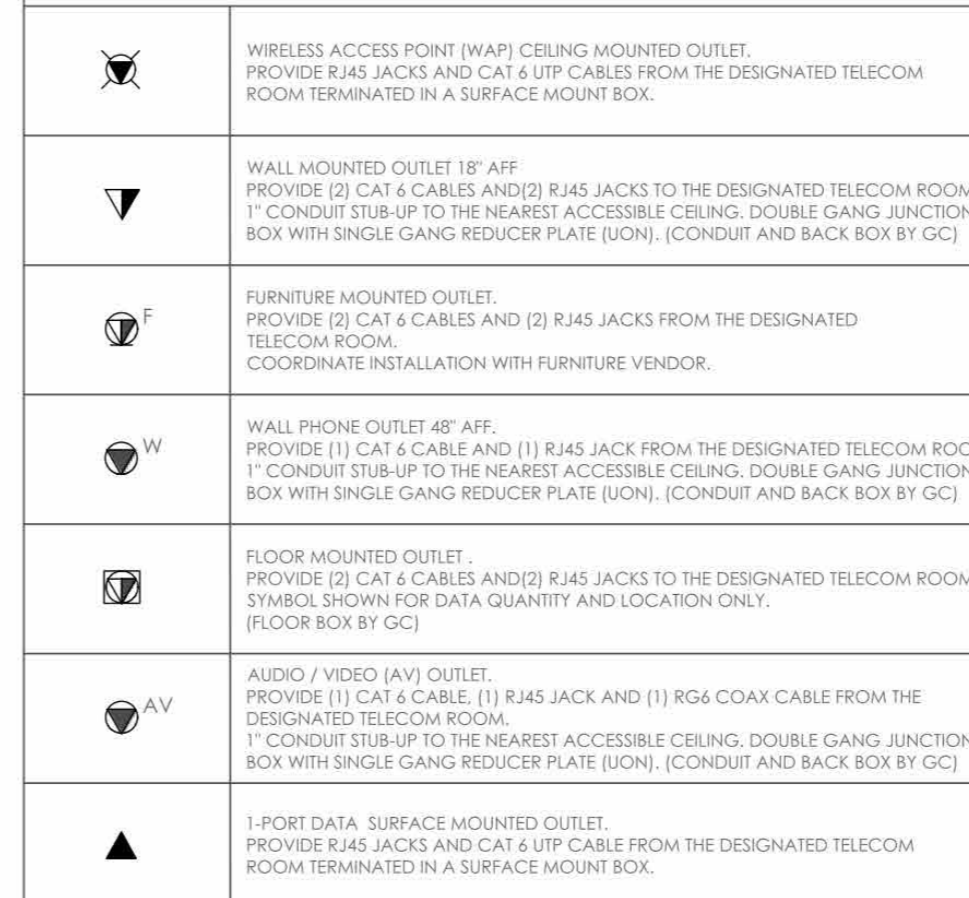
ABBREVIATIONS

ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
AWG	AMERICAN WIRE GAUGE
****	DEGREE CELSIUS
EC	EMPTY CONDUIT WITH DRAG LINE
IF	ENTRANCE FACILITY
EA	ELECTRONIC INDUSTRIES ASSOCIATION
EM	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ER	EQUIPMENT ROOM
****	DEGREE FAHRENHEIT
FCC	FEDERAL COMMUNICATIONS COMMISSION
FEAT	FEAR-IND CROSSSTALK
FL	FLOOR
FO	FIBER OPTIC
FOPP	FIBER OPTIC PATCH PANEL
FT	FEET, FOOT
HC	HORIZONTAL CROSS-CONNECT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
IC	INTERMEDIATE CROSS-CONNECT
IDC	INSULATION DISPLACEMENT CONNECTOR
IDF	INTERMEDIATE DISTRIBUTION FRAME
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IN	INCHES
LAN	LOCAL AREA NETWORK
LB	FOUND
MC	MAIN CROSS-CONNECT
MDF	MAIN DISTRIBUTION FRAME
MMZ	MEGAMERTZ
MM	MULTI-NODE FIBER OPTIC CABLE
NEC(R)	NATIONAL ELECTRICAL CODE(S)
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEXT	NEAR END CROSSSTALK
NFPA(R)	NATIONAL FIRE PROTECTION ASSOCIATION(S)
NIS	NOT TO SCALE
PBX	PRIVATE BRANCH EXCHANGE (TELEPHONE SWITCH EQUIPMENT)
RF	RF/RFI
REQD	REQUIRED
ROC	ROUND STEEL CONDUIT
SC	SUBSCRIBER CONNECTOR (FIBER OPTIC)
SA	SINGLE MODE FIBER OPTIC CABLE
TBB	TELECOMMUNICATION BONDING BACKSHEATH
TBD	TO BE DETERMINED
TC	TELECOMMUNICATION CLOSET
TIA	TELECOMMUNICATION INDUSTRY ASSOCIATION
TOS	TELECOMMUNICATION GROUNDING BUS BAR
TMBB	TELECOMMUNICATION MAIN GROUNDING BUS BAR
TR	TELECOMMUNICATION ROOM
TRP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNCN	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
WAP	WIRELESS ACCESS POINT

DRAWING NOTATIONS



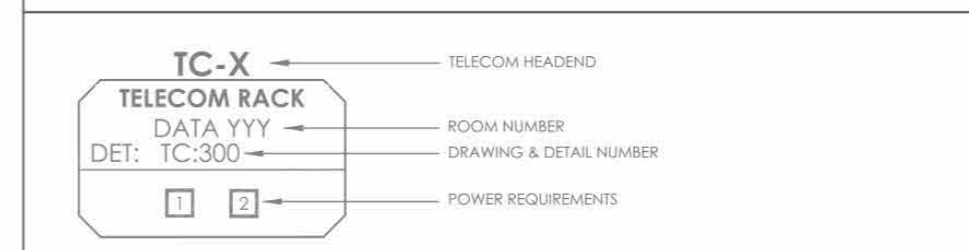
TELECOMMUNICATIONS SYMBOLS



POWER REQUIREMENTS

- POWER (EMERGENCY CIRCUIT) CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A EMERGENCY CIRCUIT DESIGNATED TO SECURITY IN EACH REBER LOCATION WITHIN A 4x4\"/>
- POWER (NON-EMERGENCY CIRCUIT) CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A NON-EMERGENCY CIRCUIT DESIGNATED TO SECURITY IN EACH REBER LOCATION WITHIN A 4x4\"/>

TELECOM TAG DETAIL



CABLE TYPE/IDENTIFICATION SCHEDULE

ID	MANUFACTURER	PART #	DESCRIPTION
1	REVAE	68N6	23AWG 40P CAT6 NON-SHIELDED, PLENUM, BLUE JACKETS

PATHWAY NOTES

- COORDINATE INSTALLATION OF CONDUITS AND CABLE TRAYS WITH OTHER COMPONENTS INSTALLED WITHIN CEILING. PREPARE SHOP DRAWINGS TO DEMONSTRATE AND ENSURE PROPER INSTALLATION OF ALL COMPONENTS.
- MAINTAIN MINIMUM BEND RADIUS OF 10X O.D. FOR CONDUITS GREATER THAN 2\"/>
- PROVIDE PULL BOXES (SIZE AS NOTED) AFTER EVERY 100' OF RUN OR AFTER EVERY 180 DEGREES OF BEND.
- DO NOT INSTALL PULL BOXES IN LIEU OF A BEND. REAM AND BUSH THE ENDS OF ALL CONDUITS. PROVIDE AND LEAVE IN PLACE A PULL STRING IN EACH CONDUIT.
- PROVIDE HANGERS, ANCHORS, MOUNTING HARDWARE, GROUND LUGS AND STRAPS AS REQUIRED TO ENSURE PROPER INSTALLATION OF PATHWAY COMPONENTS. INSTALL ALL COMPONENTS AS PER MANUFACTURERS RECOMMENDATIONS AND PER ALL APPLICABLE CODES.
- GROUND ALL CONDUITS AND LADDER RACK AS PER MANUFACTURERS RECOMMENDATIONS AND PER ALL APPLICABLE CODES.
- PROVIDE FURNISH AND INSTALL ALL LADDER RACK, CABLE TRAY LOCATIONS AND CONDUIT SLEEVE LOCATIONS: RUNWAY DROPOFFS, SPLICE HARDWARE, GROUND STRAPS, THERMAL EXPANSION PLATES, TERMINATION KITS, END SUPPORT LUGS AND CEILING SUPPORT HARDWARE.
- REFER TO DISTRIBUTION PLANS FOR REQUIREMENTS FOR JUNCTION BOX AND CONDUITS TO SUPPORT WORKSTATION OUTLETS.
- WHERE CABLE IS RUN ABOVE NON-ACCESSIBLE (I.E. GYPSUM BOARD) CEILING CONSTRUCTION, INSTALL CONDUIT AND PULLBOXES TO PROPERLY ROUTE CABLE.
- PROVIDE J-HOOKS AND CABLE STRAPS TO SUPPORT CABLE ABOVE ACCESSIBLE CEILING CONSTRUCTION. EXCEPT IN AREAS WHERE CABLE TRAY OR CONDUIT IS INDICATED.
- PROVIDE CONDUIT SLEEVES IN PARTITION WALLS FOR CABLEING WHERE NO SLEEVES EXIST. CONDUIT CABLE CAPACITY SHALL NOT EXCEED 40%.

CALCULATION BASED UPON 40% FILL @ 0.28 INCH CABLE O.D.

CONDUIT FILL SCHEDULE

CONDUIT SIZE	MAX. NO. OF CAT 6 CABLES ALLOWED		
	0 - BENDS	1 - BENDS	2 - BENDS
3"	6	5	4
1 1/4"	10	8	7
1 1/2"	13	11	9
2"	22	19	15
2 1/2"	38	32	27
3"	57	49	40
3 1/2"	75	64	52
4"	96	82	67

CONDUIT NOTE

NOTE:
REFER TO ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS.

PATCH CORD SCHEDULE

PROVIDE (1) 3' FOOT, (1) 7' FOOT AND (1) 18' FOOT CAT 6 PATCH CORD FOR EACH CAT-6 CABLE INSTALLED UNDER THIS CONTRACT.
PROVIDE (8) 3M FIBER PATCH COORDS PER DESIGNATED TELECOM ROOM

ISSUED FOR:

DATE	COMMENTS
06/05/24	ISSUED FOR BID



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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRISON AVE
HARRISON, NY 10528

TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND

DESIGNED BY: **JD** DRAWN BY: **AO** CHECKED BY: **IT**
DATE: **12/08/2023**

SCALE: **N.T.S.**
DRAWING NO.: **TC-000**

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND

Job No. **2020-1005** Date **06/05/24**
Scale **AS NOTED** Drawn / Checked **Author Checker**

Sheet Number **TC000**

HARRISON RECREATION & COMMUNITY CENTER

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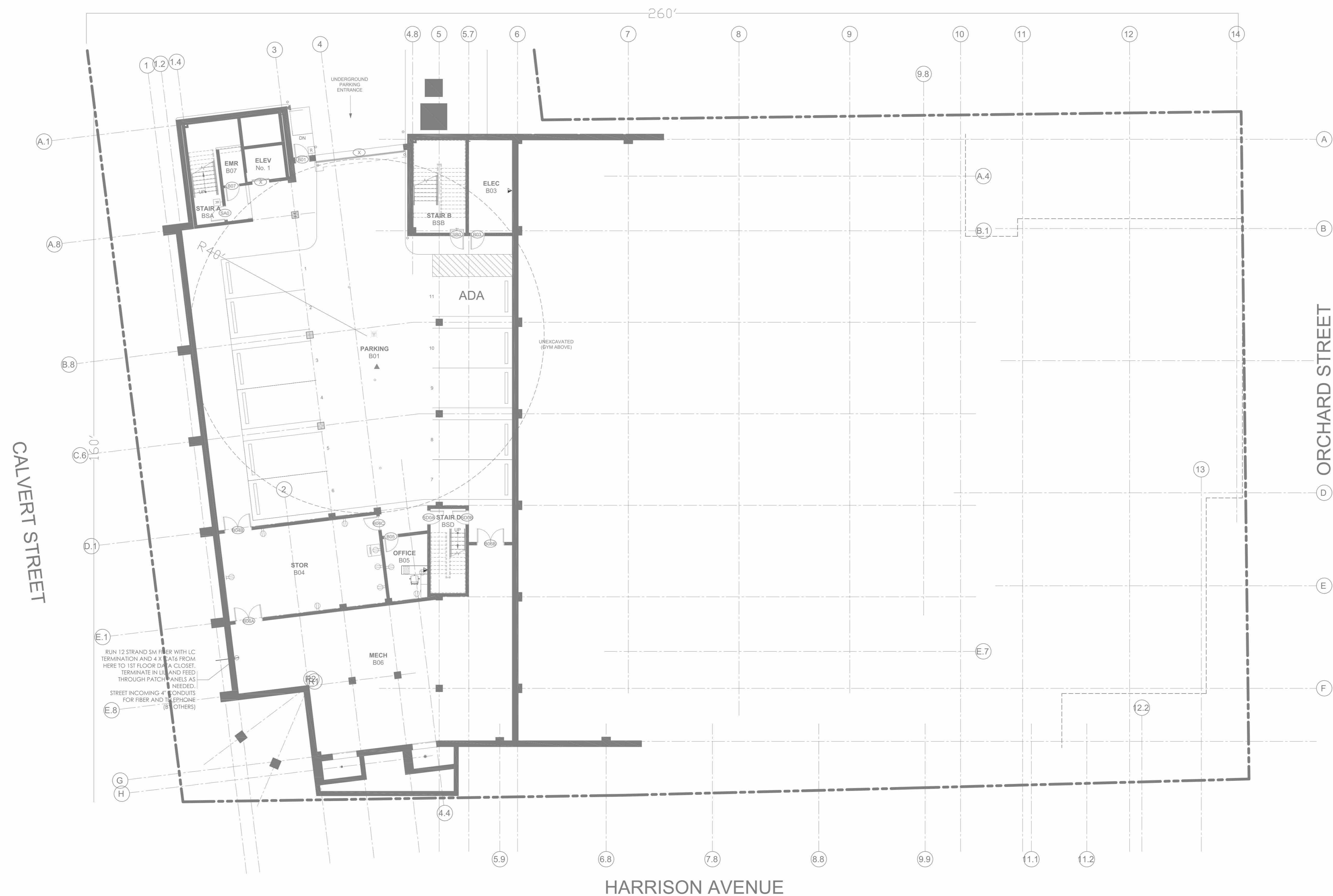
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CONSTRUCTION DOCUMENTS

NOTE:
 THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION



RUN 12 STRAND 5M FIBER WITH LC TERMINATION AND 4 X CAT6 FROM HERE TO 1ST FLOOR DATA CLOSET. TERMINATE IN LIL AND FEED THROUGH PATCH PANELS AS NEEDED. STREET INCOMING 4" CONDUITS FOR FIBER AND TELEPHONE (BOTH OTHERS)

ISSUED FOR:	
DATE	COMMENTS
06/05/24	ISSUED FOR BID

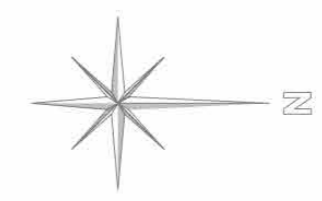
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	3	01/16/2024	ISSUED FOR PERMIT
	2	06/01/2020	DESIGN DEVELOPMENT
	1	03/31/2020	50% DESIGN DEVELOPMENT

TITLE: TELECOMMUNICATION LOWER LEVEL DEVICE PLAN

DESIGNED BY	DATE	CHECKED BY
JD	12/08/2023	AO
WORK ORDER NO:	SCALE: 1/8"=1'-0"	DATE:
S.A. NO:	DRAWING NO: TC-100	



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TELECOMMUNICATION LOWER LEVEL DEVICE PLAN

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TC100

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

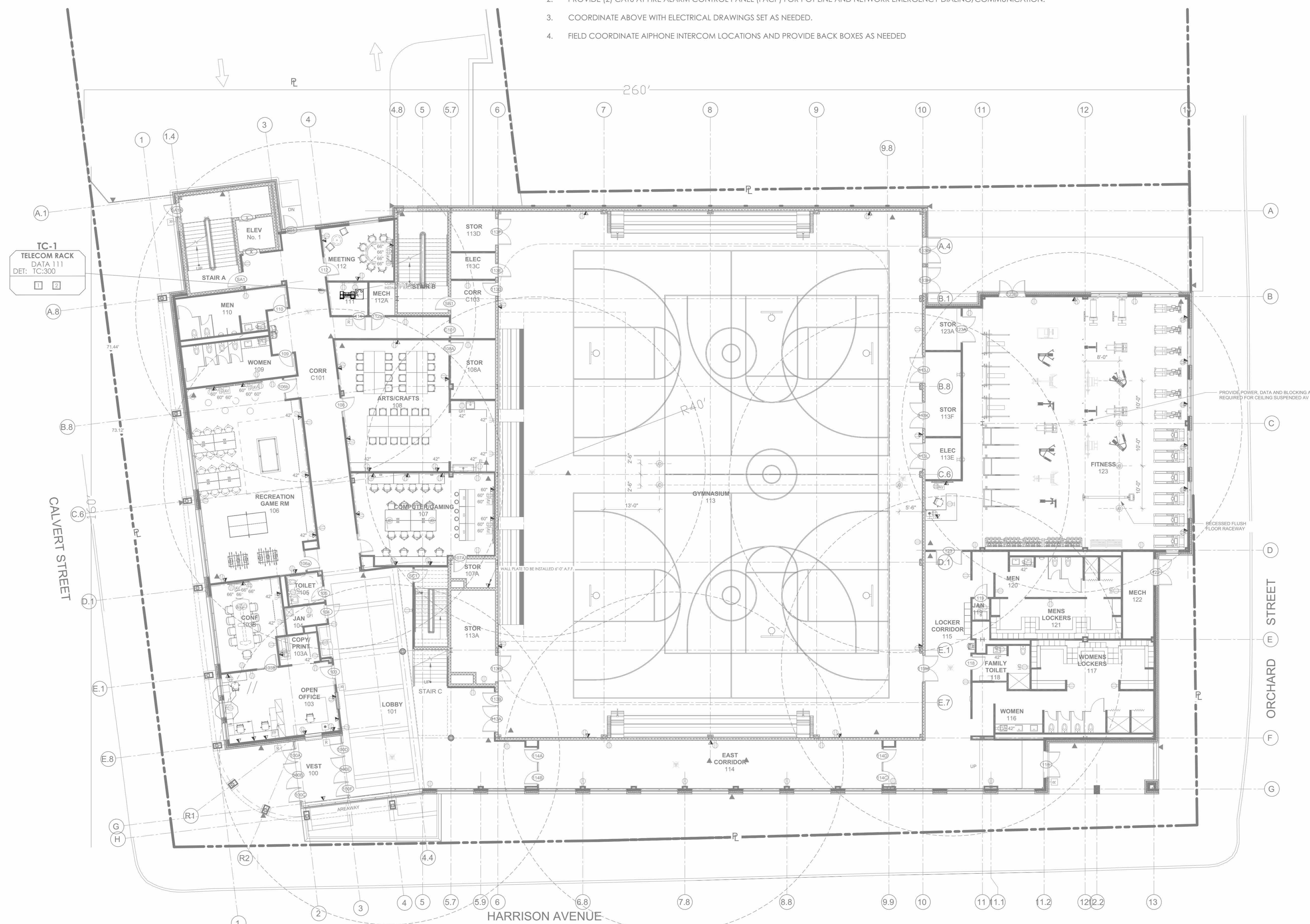


CONSTRUCTION DOCUMENTS

NOTE:
THE BIDDING LOW VOLTAGE
CONTRACTOR (LVC) IS
RESPONSIBLE TO FURNISH,
INSTALL, PROGRAM AND
COMMISSION ALL SECURITY
AND TELEDATA DEVICES TO
PROVIDE THE OWNER WITH A
COMPLETE TURN-KEY SOLUTION

NOTES:

1. PROVIDE (2) CAT6 IN ELEVATOR MACHINE ROOM FOR POT LINE EMERGENCY DIALING.
2. PROVIDE (2) CAT6 AT FIRE ALARM CONTROL PANEL (FACP) FOR POT LINE AND NETWORK EMERGENCY DIALING/COMMUNICATION.
3. COORDINATE ABOVE WITH ELECTRICAL DRAWINGS SET AS NEEDED.
4. FIELD COORDINATE AIPHONE INTERCOM LOCATIONS AND PROVIDE BACK BOXES AS NEEDED



TC-1
TELECOM RACK
DATA 111
DET: TC-300

CALVERT STREET

HARRISON AVENUE

ORCHARD STREET

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HARRISON, NY 10528

TELECOMMUNICATION
1ST FLOOR
DEVICE PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
JD	AO	IT

DATE: 12/08/2023
SCALE: 1/8"=1'-0"
S.A. NO.: TC-101

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**TELECOMMUNICATION
1ST FLOOR DEVICE
PLAN**

Job No.	Date
2020-1005	06/05/24

Scale: AS NOTED
Drawn / Checked: AS NOTED
Author / Checker:

Sheet Number
TC101

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

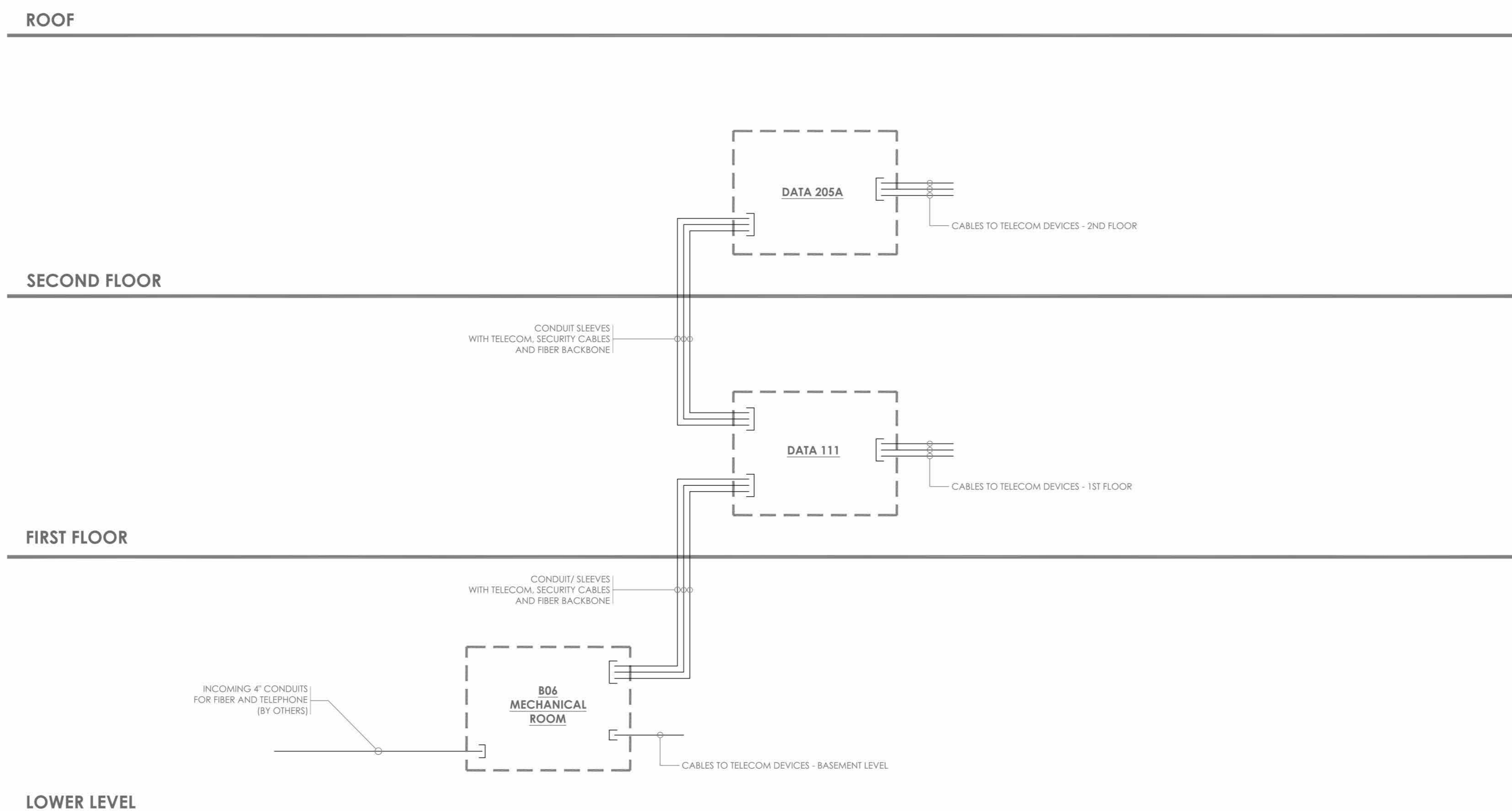
Town / Village of Harrison

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Harrison, NY 10528



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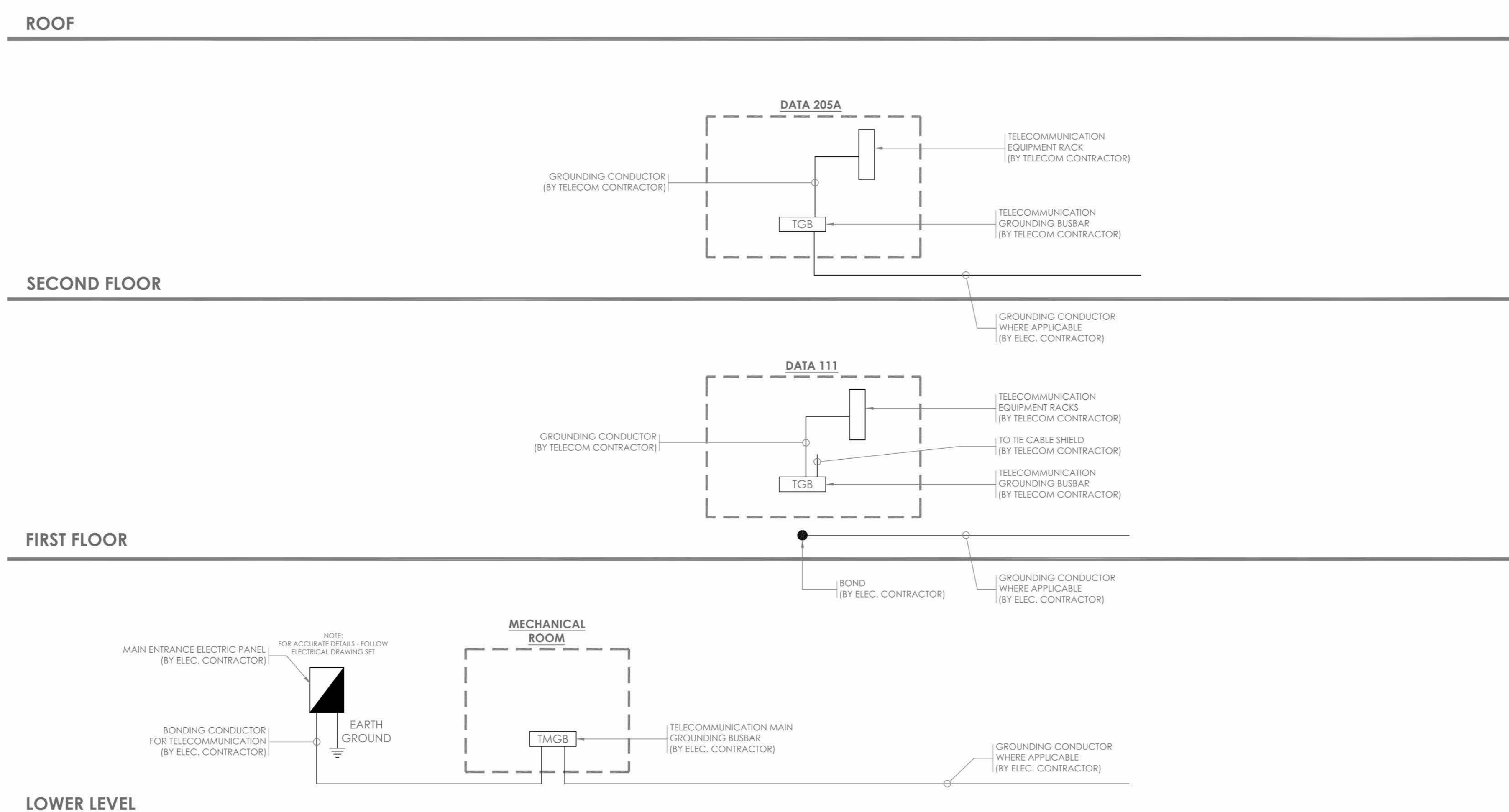
CONSTRUCTION DOCUMENTS



2 TELECOMMUNICATION RISER DIAGRAM

GENERAL NOTES:

1. THIS DRAWING REPRESENTS A DIAGRAMMATIC OVERVIEW OF THE TELECOMMUNICATION PATHWAY INFRASTRUCTURE. REFER TO THE ELECTRICAL DRAWING SET FOR EXACT CONDUITS LAYOUT.
2. PATHWAYS SHOWN ARE DEDICATED FOR TELECOMMUNICATIONS, SECURITY, AND AV CABLING ONLY.
3. PROVIDE FIRESTOP MATERIAL IN AND AROUND ALL PENETRATING SLEEVES. REFER TO ELECTRICAL DRAWINGS SET
4. PROVIDE PLASTIC BUSHINGS AS NEEDED.
5. SEE FLOOR PLANS FOR DEVICE LOCATION AND QUANTITIES.
6. GROUNDING SCHEMATIC BELOW IS DIAGRAMMATIC AND FOR INFORMATION ONLY. REVIEW THE ELECTRICAL DRAWINGS SET FOR FURTHER DETAILS
7. FOR FURTHER DETAILS - COORDINATE WITH ELECTRICAL DRAWING SET
8. THE BELOW INDICATES NEED FOR GROUNDING BARS AT THE THREE MAIN MDF/IDF - REFER TO THE ELECTRICAL DRAWING SETS FOR GREATER DETAIL



1 GROUNDING AND BONDING RISER DIAGRAM

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270 HARRISON AVE
HARRISON, NY 10528

TITLE:
TELECOMMUNICATION RISER DIAGRAMS

DESIGNED BY	DRAWN BY	CHECKED BY
JD	AO	IT
WORK ORDER NO.	DATE	SCALE
	12/08/2023	N.T.S.
S.A. NO.	DRAWING NO.	
	TC-200	

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

TELECOMMUNICATION RISER DIAGRAMS

Job No.	Date
2020-1005	06/05/24
Scale	Drawn / Checked
AS NOTED	Author / Checker

Sheet Number
TC200

HARRISON RECREATION CENTER

270 HARRSON AVE
HARRISON, NY 10528

SECURITY BID SET

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

SE000

SECURITY DRAWING LIST

SE-000 COVER SHEET / LEGEND & INDEX

FLOOR PLANS

SE-100 LOWER LEVEL SECURITY DEVICE PLAN
SE-101 1ST FLOOR SECURITY DEVICE PLAN
SE-102 2ND FLOOR SECURITY DEVICE PLAN

CLOSET DETAILS

SE-300 INTRUSION & ACCESS CONTROL CLOSET ELEVATION IDF-1
SE-301 CCTV CLOSET ELEVATION IDF-1

CLOSET DETAILS

SE-500 SECURITY EQUIPMENT DETAIL - DOOR TYPICALS-1
SE-501 SECURITY EQUIPMENT DETAIL - DOOR TYPICALS-2

TYPICALS

SE-701 BURGLAR & ACCESS CONTROL OVERALL SYSTEMS INTERFACE ONE LINE DIAGRAM
SE-704 SECURITY EQUIPMENT DETAIL 2- (ACCESS DEVICE TYPICALS)
SE-705 SECURITY EQUIPMENT DETAIL 3- (IDMA DEVICE TYPICALS)
SE-705A SECURITY EQUIPMENT DETAIL 4- (BURG DEVICE TYPICALS)
SE-706 SECURITY EQUIPMENT DETAIL 5- (CCTV TYPICALS)

NOTE TO THE ELECTRICAL CONTRACTOR (EC):
THIS DRAWING BINDER ADDRESSES ITEMS THAT ARE REFERENCED IN DIVISION 26 DRAWINGS AND SPECIFICATIONS. PLEASE REFER TO BOTH DIVISION 26 AND DIVISIONS 27/28 FOR FULL SCOPE AND RESPONSIBILITIES.

GENERAL NOTES	
1.	DRAWINGS AND DIVISION 28 DEFINITIONS. YOU ARE THE SECURITY ELECTRICAL CONTRACTOR.
2.	GENERAL NOTES SHALL APPLY TO ALL DRAWINGS IN THE SE AND IC BINDER SETS.
3.	WORK TO COMPLY WITH ALL APPLICABLE LOCAL, CODES, REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, NEC, OSHA, AND OTHERS.
4.	THE SEC SHALL BE RESPONSIBLE FOR SCHEDULING WITH BUILDING MANAGEMENT THE USE OF ELEVATOR OR OTHER HOISTING FACILITIES FOR HANDLING THE DELIVERY OF MATERIALS.
5.	FIRE STOPPING OF ALL PENETRATIONS SHALL BE PROVIDED BY THE INSTALLING SEC AS REQUIRED BY CODE.
6.	THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. AND FINAL SYSTEM CONDUITS AND CONDUCTOR LAYOUTS SHALL BE PROVIDED BY THE SEC IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED EQUIPMENT, CONDUIT, AND WIRING SHOP DRAWINGS, AND FIELD CONDITIONS.
7.	THE SEC MUST COORDINATE WITH THE EC ALL DEVICE INSTALLATION DETAILS AND INSURE THAT DEVICE BACKBOXES ARE APPROPRIATE FOR THE FINAL APPROVED SHOP DRAWING, ON A LOCATION BY LOCATION BASIS, AND MEET ARCHITECTURAL REQUIREMENTS. SURFACE MOUNTING IS ONLY APPROVED IF THERE IS NO OTHER PATHWAY OPTION. NO SURFACE MOUNTING IS APPROVED ON AHN DRYWALL.
8.	PROVIDE APPROPRIATE METALLIC RACEWAY FOR THE SECURITY SYSTEM AS NEEDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND SO AS NOT TO EXCEED 48" CONDUIT FILL WHEN USING SURFACE MOUNTED WIREHOLD. BACK BOX DEPTH SHOULD NOT EXCEED THE ABSOLUTE MINIMUM DEPTH REQUIRED FOR THE DEVICE. FOR EXAMPLE, CARD READER IS 1.5" DEPT.
9.	UNLESS OTHERWISE NOTED, THE SEC SHALL PROVIDE ALL 120/220VAC AS REQUIRED FOR THE SECURITY SYSTEM. FINAL 120 VAC TERMINATIONS IN THE SECURITY EQUIPMENT SHALL BE PERFORMED BY THE SEC AS WELL.
10.	THE SEC SHALL PROVIDE AND INSTALL ALL INTERCONNECTING CONDUITS AND RACEWAYS INSIDE THE SECURITY EQUIPMENT AND TERMINATE ALL WIRES AS SHOWN IN THIS DRAWING SET.
11.	UNLESS OTHERWISE NOTED, THE SEC SHALL PROVIDE AND INSTALL ALL CABLE PASS-THROUGH HOLES IN MULLHOLE.
12.	THE SEC SHALL PROVIDE AND INSTALL ALL OVERHEAD CABLE SUPPORTED BY HANGERS, J-HOOKS, CABLE TRAYS, OR EQUIVALENT. CABLE SHALL NOT BE SUPPORTED BY CEILING GRID, DUCTWORK, SPRINKLER PIPES, ELECTRICAL CONDUIT OR GAS PIPES.
13.	THE SEC TO PROVIDE GROUNDING OF ALL ELECTRONIC EQUIPMENT. AT MINIMUM, ON THE PLYWOOD BACKBOARD, USE GROUND BAR. COORDINATE WITH GENERAL CONTRACTOR AND EC FOR NEAREST GROUNDING LOCATION.
14.	THE SEC SHALL WIRE ALL DOORS FOR ELECTRIFIED DOOR HARDWARE THAT WILL BE PROVIDED BY OTHERS. THIS INCLUDES ELECTRIC LOCKS, DOOR FRAMES FOR ELECTRIC STRIKES, HOLES FOR DOOR CONTACTS, AUTOMATIC DOOR OPERATORS, ETC.
15.	THESE DRAWINGS INDICATE THE GENERAL INTENT OF WORK AND ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL THE WORK REQUIRED BY THE SEC FOR THE FULL PERFORMANCE AND COMPLETION OF THE CONTRACT.
16.	ALL CONDUIT SHALL BE DELIVERED, CLEANED, CAPPED, TAGGED, AND PROVIDED WITH FULL WIRES AND BUSHINGS. WHERE CONDUITS OR WIREWAYS PASS THROUGH FIRE RATED ASSEMBLIES, THE PENETRATIONS SHALL BE FIRE STOPPED.
17.	PRIOR TO SYSTEM TURN ON, THE INSTALLING SECURITY CONTRACTOR SHALL REVIEW THE INSTALLATION & PROBE FOR INTERFERING.
18.	AT THE TIME OF ACCESS CONTROL SYSTEM TURN ON, THE SEC SHALL PROVIDE THE SAME PERSONNEL WHO PERFORMED & SUPERVISED THE WORK TO TROUBLESHOOT. TEST THE INSTALLATION AND REMEASUREMENT ALL RELATED PUNCH LIST ITEMS FOR FINAL COMMISSIONING.
19.	CLIENTS FIRE ALARM CONTRACTOR SHALL PROVIDE A SET OF NORMALLY CLOSED (N/C) CONTACTS TO RELEASE ON GENERAL ALARM AND BE CONNECTED BY SEC.
20.	THE SEC IS RESPONSIBLE FOR PROVIDING A COMPLETE AND ACCURATE SET OF AS-BUILT DRAWINGS.
21.	ALL WIRES TO BE MACHINE LABELED VIA SELF LAMINATING UL77 TAGS OR SIMILAR. PROVIDE FOR OWNER'S REF REVIEW PRIOR TO USE.
22.	SECURITY SCREWS TO BE USED ON ALL DEVICES TO MAINTAIN SYSTEMS INTEGRITY.
23.	POWER AND PATHWAYS BY BASE BUILDING ELECTRICAL CONTRACTOR.

POWER REQUIREMENTS	
1	POWER (EMERGENCY CIRCUIT) CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH REAR LOCATION WITHIN A 4"x4" BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.
2	POWER (NON EMERGENCY CIRCUIT) CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH REAR LOCATION WITHIN A 4"x4" BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.

SECURITY DEVICES LEGEND	
	CARD READER R = RECESS S = SURFACE DPDT = DOUBLE POLE DOUBLE THROW
	DOOR CONTACT R = RECESS S = SURFACE DPDT = DOUBLE POLE DOUBLE THROW
	BURG PANEL KEY PAD
	ELECTRIFIED DOOR OPERATOR (PBO)
	OVERHEAD DOOR CONTACT DPDT = DOUBLE POLE DOUBLE THROW
	ELECTRIC MORTISE LOCK REX = REQUEST TO EXIT BUILT IN
	ELECTROMAGNETIC LOCK
	ELECTRIC STRIKE LOCK
	END OF LINE RESISTOR
	REQUEST TO EXIT MOTION SENSOR
	INTELLIGENT DOOR MANAGEMENT ALARM (IDMA) - "EXD" CABLE
	ELECTRIC LOCKING CRASH BAR REX = BUILT IN REQUEST TO EXIT
	MOTION SENSOR (LONG RANGE) - "RX" CABLE MOTION SENSORS WILL BE WALL MOUNTED UNLESS MOTION
	MOTION SENSOR (SHORT RANGE) - "RX" CABLE
	BUZZER
	TEMPERATURE SENSOR
	VIDEO MONITOR
	INTERCOM S=SUBSTATION M=MASTER VS=VIDEO SUBSTATION VM=VIDEO MASTER
	SIREN
	CUSTODIAL ARMING STATION
	FIXED MINI DOME OUTDOOR VANDAL CAMERA
	FIXED MINI DOME INDOOR CAMERA
	PTZ DOME OUTDOOR CAMERA
	PTZ DOME INDOOR CAMERA
	FIXED BOX OUTDOOR CAMERA
	FIXED BOX INDOOR CAMERA
	QUAD CAMERA

REFERENCE DEVICE ATTRIBUTE LEGEND	
	CARD READER ACCESS CONTROL REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	POLICE BLUE ARMING CARD READER REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	IDMA IDMA / DC FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	CCTV CCTV REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	INTERCOM INTERCOM REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	MOTION SENSOR MOTION SENSOR REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	SIREN SIREN REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	PANIC ALARM PANIC ALARM REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	DOOR CONTACT DOOR CONTACT REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	BURG PANEL KEY PAD BURG PANEL KEY PAD REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	BUZZER BUZZER REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	SECURITY DESK SECURITY DESK REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	MAIN OFFICE MAIN OFFICE REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	WORKSTATION WORKSTATION REFERENCE TAG FLOOR: 100-01 ROOM: 100-01 TYPE: A-1 CABLE TYPE: 24AWG TERMINATION: 100-01
	IDF-1 ACCESS CONTROL HEADEND DRAWING & DETAIL NUMBER ROOM NUMBER POWER/MEDIA REQUIREMENTS
	IDF-1 BACK ACCESS CONTROL HEADEND DRAWING & DETAIL NUMBER ROOM NUMBER POWER/MEDIA REQUIREMENTS

CABLE TYPE/IDENTIFICATION SCHEDULE				
ID	MANUFACTURER	PART #	DESCRIPTION	CABLE TYPE
			(R) - COMPONENT 1: CARD READER IN 1/8" (R-48) SHIELDED 24AWG STRANDED 2 COND (RED/WH) 24AWG STRANDED 2 COND (POWER) 24AWG STRANDED	
			(R) - COMPONENT 2: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 3: DOOR CONTACT 2 COND - 24AWG STRANDED	PLENAM
			(R) - COMPONENT 4: LOCK POWER 2 COND - 18AWG STRANDED	
			(R) - COMPONENT 5: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 6: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 7: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 8: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 9: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 10: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 11: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 12: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 13: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 14: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 15: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 16: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 17: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 18: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 19: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 20: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 21: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 22: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 23: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 24: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 25: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 26: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 27: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 28: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 29: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 30: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 31: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 32: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 33: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 34: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 35: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 36: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 37: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 38: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 39: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 40: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 41: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 42: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 43: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 44: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 45: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 46: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 47: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 48: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 49: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 50: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 51: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 52: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 53: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 54: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 55: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 56: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 57: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 58: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 59: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 60: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 61: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 62: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 63: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 64: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 65: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 66: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 67: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 68: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 69: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 70: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 71: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 72: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 73: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 74: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 75: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 76: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 77: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 78: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 79: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 80: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 81: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 82: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 83: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 84: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 85: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 86: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 87: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 88: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 89: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 90: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 91: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 92: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 93: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 94: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 95: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 96: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 97: HORN/STROBE 2 COND - 24AWG STRANDED	
			(R) - COMPONENT 98: REQUEST TO EXIT 4 COND - 2 COND - 24AWG CONTACTS STRANDED 2 COND - 24AWG (POWER) STRANDED	
			(R) - COMPONENT 99: HORN/STROBE 2 COND - 24AWG STRANDED	

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

- NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE EXISTING DRAWINGS SET AND RELATED DIVISIONS OF SE SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING CAT 6A WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL CAT 6A CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISE AND NOTE ON THE AS BUILT.
 7. CONTRACTOR TO PROVIDE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "P" SIZE HARD COPY (SETS) AND DIGITAL FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVCC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION.

ISSUED FOR:

DATE	COMMENTS
06/05/2024	ISSUED FOR BID

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Professional Seal



ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
**HARRISON
RECREATION CENTER-KDG**
270 HARRISON AVE
HARRISON, NY 10528

DESIGNED BY: EM
DRAWN BY: AO
CHECKED BY: IT

WORK ORDER NO.:
DATE: 12/08/2023
SCALE: 1/8"=1'-0"

S.A. NO.:
DRAWING NO.: SE-100

No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

**LOWER LEVEL
SECURITY DEVICE
PLAN**

Job No. 2020-1005 Date 06/05/24
Scale AS NOTED Drawn / Checked Author / Checker

Sheet Number
SE100



CALVERT STREET

ORCHARD STREET

HARRISON AVENUE

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

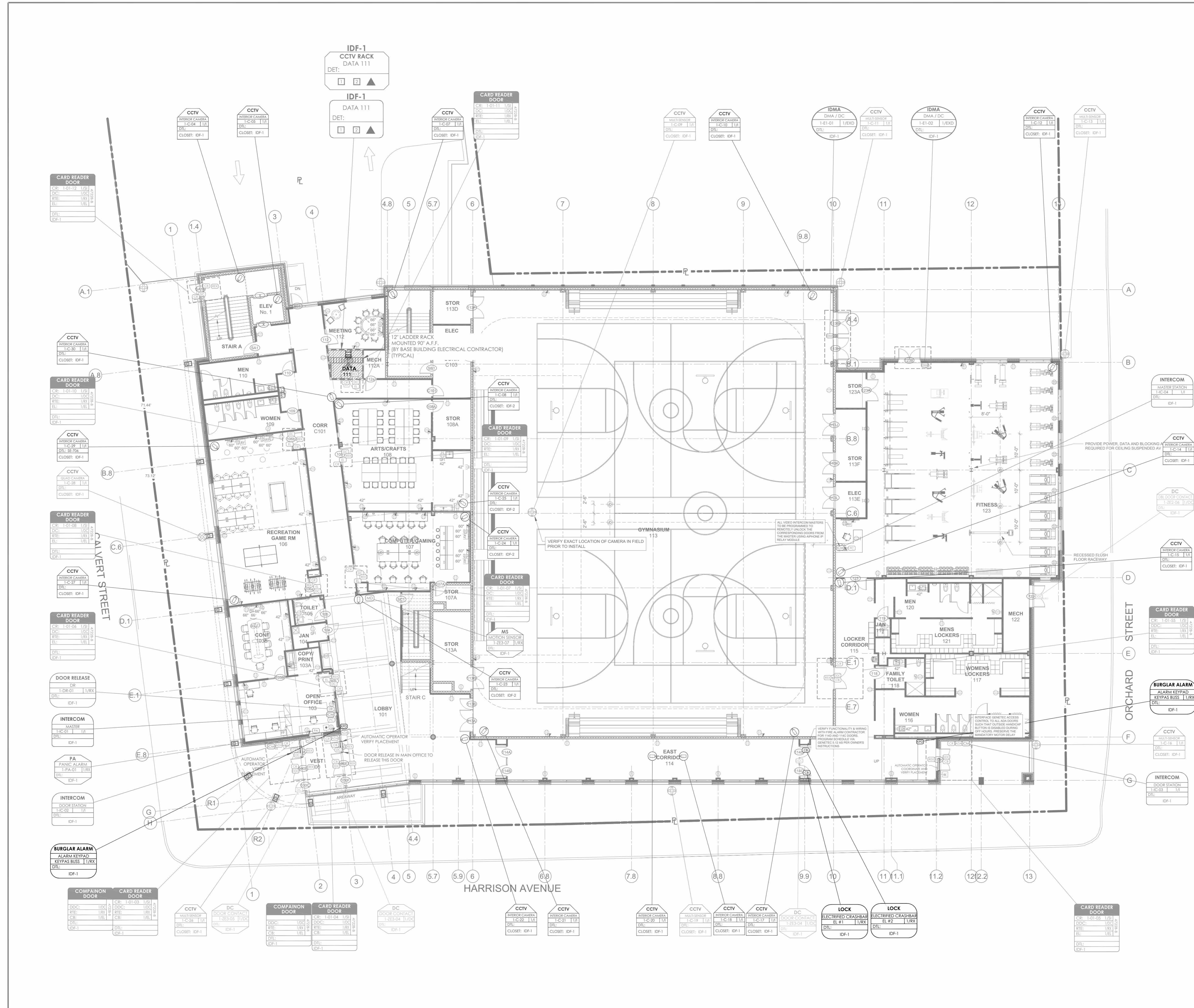
270 Harrison Avenue
Harrison, NY 10528



CONSTRUCTION DOCUMENTS

- NOTES:
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 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE BIDDING DRAWINGS SET AND RELATED DIVISIONS 27, 28 SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING C.A.T.A. WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL C.A.T.A. CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED REFER AND NOTE ON THE "AS BUILT" DRAWINGS TO PRODUCE AND SUBMIT A BOUND "AS BUILT" SET IN BOTH "E" SIZE HARD COPY (25%) AND DIGITAL FORMAT.
 7. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 8. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE: THE BIDDING LOW VOLTAGE CONTRACTOR (LV) IS RESPONSIBLE TO REMAIN, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION.



ISSUED FOR:

DATE	COMMENTS
06/05/2024	ISSUED FOR BID
01/16/2024	ISSUED FOR PERMIT
06/01/2020	DESIGN DEVELOPMENT
03/31/2020	50% DESIGN DEVELOPMENT

HARRISON RECREATION CENTER-KDG
 270 HARRISON AVE
 HARRISON, NY 10528

1ST FLOOR SECURITY DEVICE PLAN

EM	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO.	DATE	12/08/2023
S.A. NO.	SCALE	1/8"=1'-0"
	DRAWING NO.	SE-101

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No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

1ST FLOOR SECURITY DEVICE PLAN

Job No. 2020-1005 Date 06/05/24
 Scale AS NOTED Drawn / Checked Author Checker

Sheet Number **SE101**

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

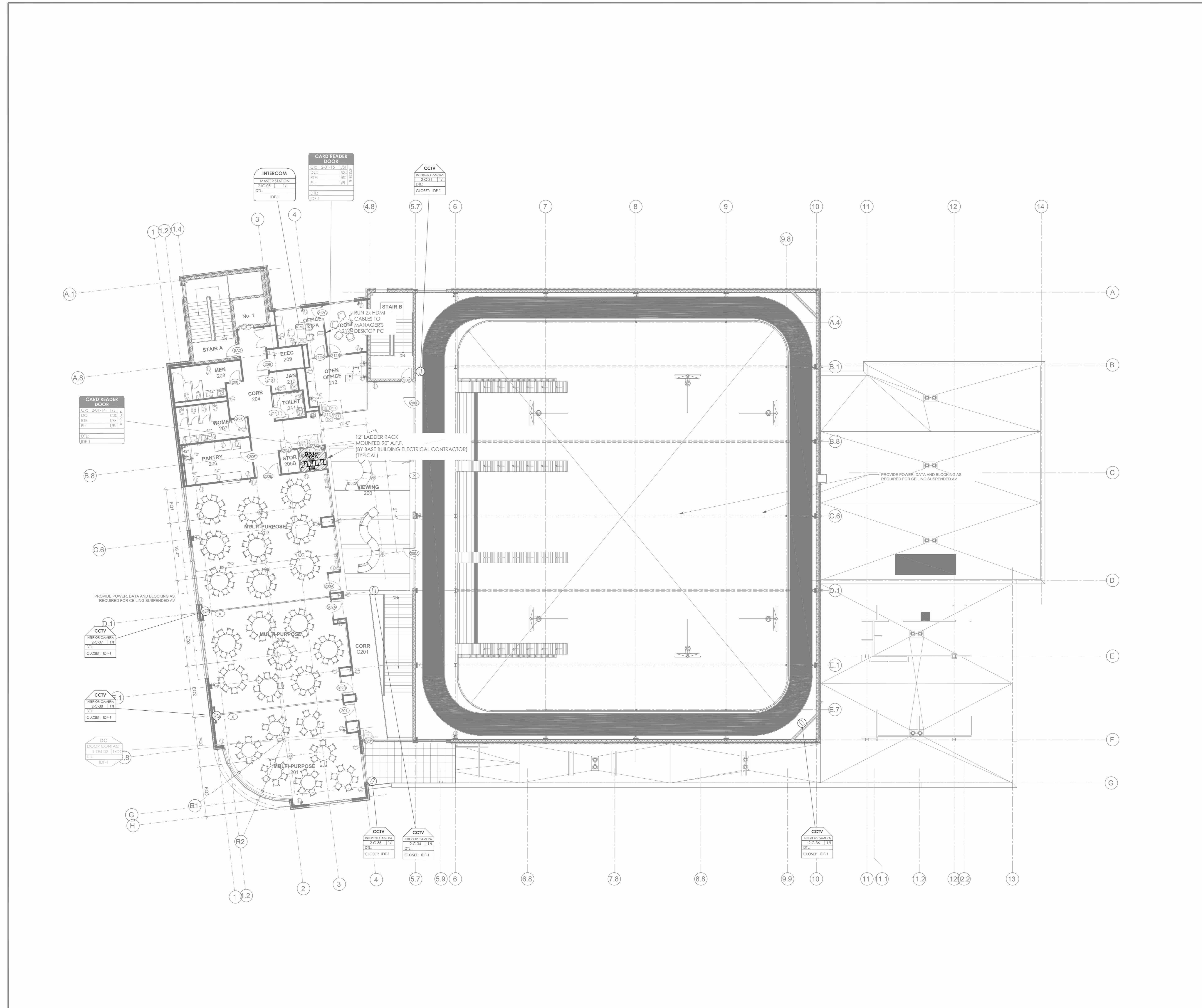


KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

- NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE IDENTIFICATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE DEVICE DRAWINGS SET AND RELATED DIVISIONS 27, 28 SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING CAT 6A WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL CAT 6A CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISE AND NOTE ON THE "AS BUILT" PROVIDED RISE AND NOTE ON THE "AS BUILT".
 7. CONTRACTOR TO PROVIDE AND DELIVER A SOUND "AS BUILT" SET IN BOTH "E" SIZE HARD COPY (E-SET) AND DIGITAL FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE: THE BIDDING LOW VOLTAGE CONTRACTOR (LVCC) IS RESPONSIBLE TO REMOVE, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION.



ISSUED FOR:

DATE	COMMENTS
06/05/2024	ISSUED FOR BID

WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

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PROJECT:
**HARRISON
RECREATION CENTER-KDG**
270 HARRISON AVE
HARRISON, NY 10528

2ND FLOOR
SECURITY DEVICE PLAN

DESIGNED BY	AO	IT
EM	AO	IT
WORK DESIG. NO.	DATE	CHECKED BY
	12/08/2023	
SCALE	1/8"=1'-0"	
S.A. NO.	SE-102	

DATE
 COMMENTS |

4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

Sheet Title

**2ND FLOOR
SECURITY DEVICE
PLAN**

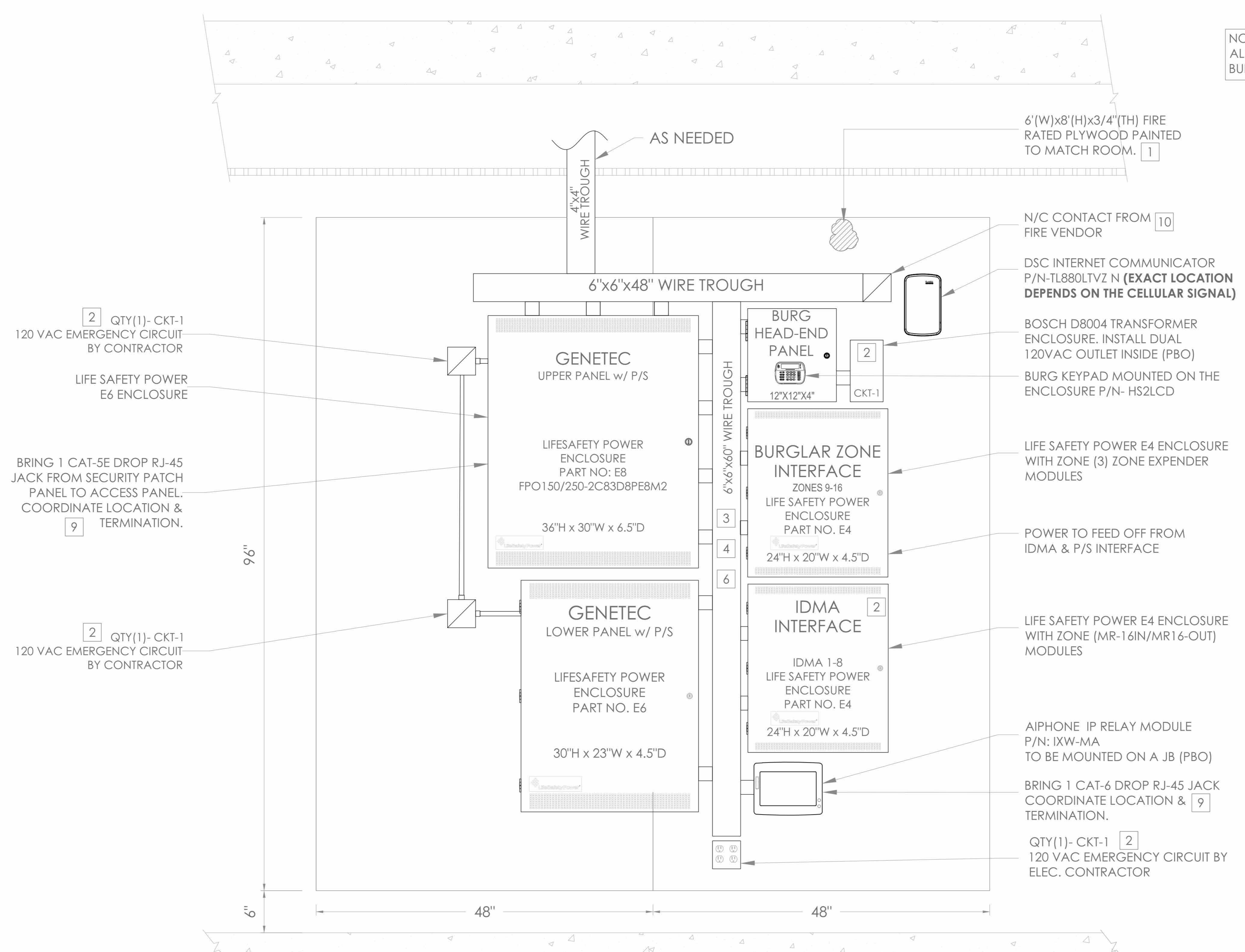
Job No. 2020-1005 Date 06/05/24

Scale AS NOTED Drawn / Checked Author Checker

Sheet Number

SE102

NOTE:
ALL INCOMING STREET UTILITIES FOR THE
BUILDING TO TERMINATE IN DATA 111 (IDF-1)



**INSTALLATION PROCEDURE
MERCURY 16 DOORS WITH LSP 12V/24V ACCESS CONTROL HEAD END**

- 1 LAYOUT EQUIPMENT TO BE MOUNTED AT DESIGNATED PLYWOOD (FIRE RATED AND PAINTED TO MATCH ROOM) BOARD IN SDF ROOM IN ACCORDANCE WITH THE PROVIDED ELEVATIONS HERE. STEPS KEYED ON THE DRAWINGS ARE NOTED BELOW.
- 2 COMPLETE INSTALLATION OF 120VAC/20A DEDICATED CIRCUIT AS SHOWN.
- 3
- 4
- 5 MOUNT [STAR ULTRA SE] ENCLOSURE 1" BELOW THE LOCK POWER SUPPLY. FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM [STAR ULTRA SE] ENCLOSURE TO THE CENTER TROUGH AS SHOWN.
- 6 BRING CAT-5 CABLE AND/OR MOUNT AN RJ-45 JACK FOR PANEL DATA COMM, FROM NEAREST NETWORK SWITCH TO HERE. COORDINATE TERMINATION WITH TELECOM VENDOR OR CUSTOMER'S DATA CONSULTANT.
- 7 COORDINATE WITH MEP/ BLDG MANAGEMENT TO PROVIDE ONE SET OF NORMALLY CLOSED (N/C) DRY CONTACT FROM THE SITE'S FIRE ALARM SYSTEM, TO OPEN ON GENERAL ALARM ACTIVATION. (PROVIDED BY FIRE VENDOR).ELECTRIC LOCKS MUST BE FAIL SAFE FOR THIS FUNCTIONALITY.
- 8 ALL CONDUITS AND CONNECTIONS SHALL BE INSTALLED TO REQUIRED ENCLOSURES AS NEEDED PER DIAGRAM PROVIDED.
- 9 ALL CONNECTIONS BETWEEN PANELS & TROUGHS SHOULD BE CHASE NIPPLES & RIGID COUPLINGS.

- NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTE, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING SET AND RELATED DRAWINGS BY JOB SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DEVELOP A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING CAT-5 WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL DATA CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED ROOM AND HOLE ON THE 'AS BUILT'.
 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND 'AS BUILT' SET IN BOTH 'E' SIZE HARD COPY (2 SETS) AND DIGITAL FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVCT) IS RESPONSIBLE TO FURNISH INITIAL PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN KEY SOLUTION.

ISSUED FOR:	
DATE	COMMENTS
06/05/2024	ISSUED FOR BID

ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
**HARRISON
RECREATION CENTER-KDG**
270 HARRISON AVE
HARRISON, NY 10528

DESIGNED BY	EM	AO	IT
WORK ORDER NO.			
DATE	12/08/2023		
SCALE	N.T.S.		
DRAWING NO.	SE-300		

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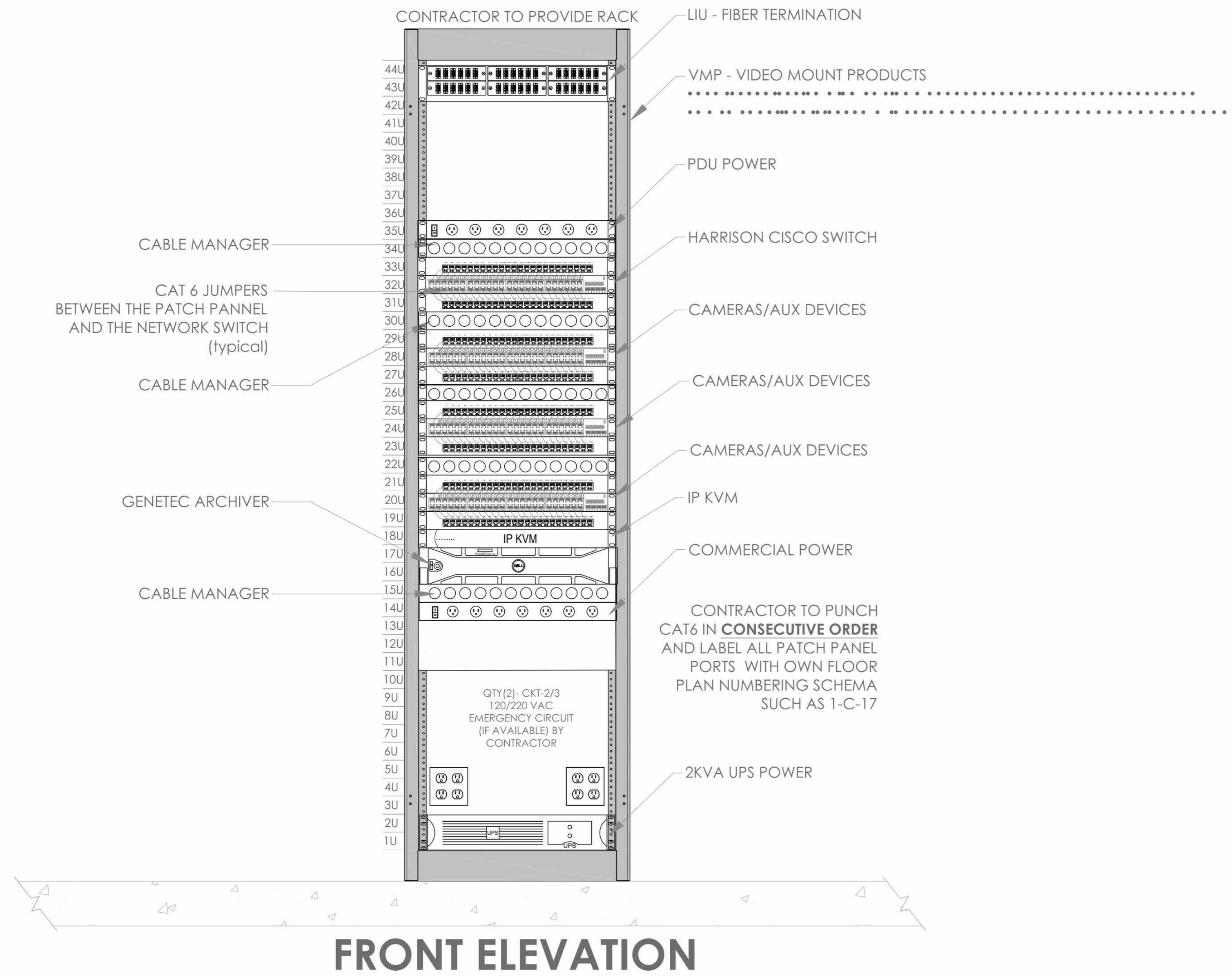
No.	Date	Issue
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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2024	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title
**INTRUSION &
ACCESS
CONTROL CLOSET
ELEVATION IDF-1**

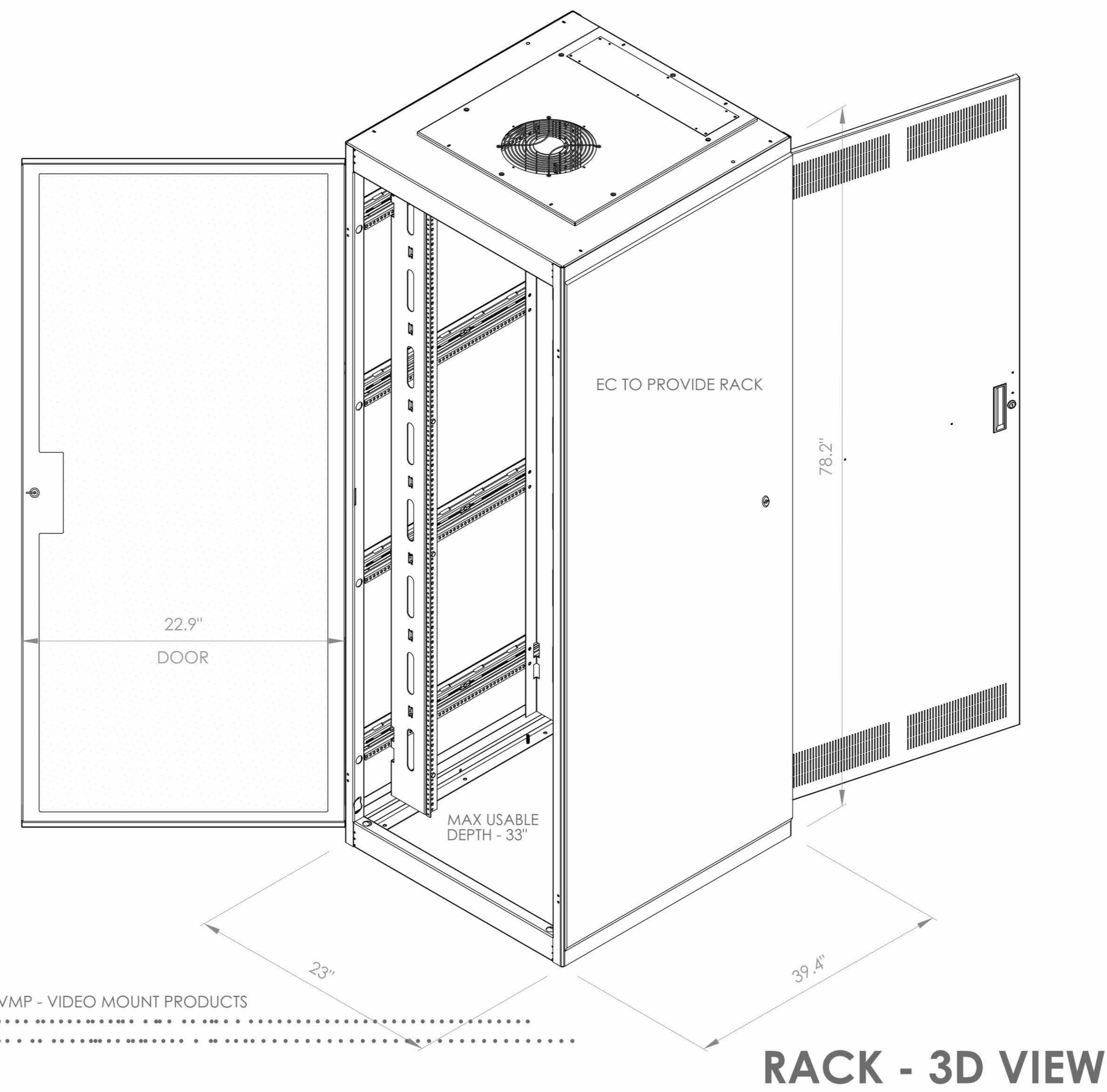
Job No. 2020-1005 Date 06/05/24
Scale AS NOTED Drawn / Checked Author Checker

CONTRACTOR TO BUILD TWO SEPARATE NETWORKS, ONE TO ACCOMMODATE CUSTOMER'S TELEDATA NEEDS AND ANOTHER TO BE USED BY VIDEO CAMERAS

CCTV NETWORK RACK



FRONT ELEVATION



NOTE:
ALL INCOMING STREET UTILITIES FOR THE BUILDING TO TERMINATE IN DATA 111 (IDF-1)

- NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND RELATED SPECIFICATIONS 27, 28 CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERA'S FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING CAT 6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL CAT 6 CABLES TO BE TESTED AND CERTIFIED AS PER BIDD DOCUMENTS.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RIBB AND NOTE ON THE "AS BUILT".
 7. CONTRACTOR TO PRODUCE AND DELIVER A "BUILT" AS BUILT SET IN BOTH "E" (SEE HARD COPY (3 SETS)) AND DIGITAL FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVLC) IS RESPONSIBLE TO HANDLE, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

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ISSUED FOR:	DATE	COMMENTS
ISSUED FOR BID	04/05/2024	

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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRISON AVE
HARRISON, NY 10528

FILE:
CCTV CLOSET ELEVATION IDF-1

DESIGNED BY	DRAWN BY	CHECKED BY
EM	AO	IT
WORK ORDER NO:	DATE	SCALE
	12/08/2023	N.T.S.
S.A. NO:	DRAWING NO:	
	SE-301	

Professional Seal

No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

CCTV CLOSET ELEVATION IDF-1

Job No.	Date
2020-1005	06/05/24
Scale	Drawn / Checked
AS NOTED	Author / Checker

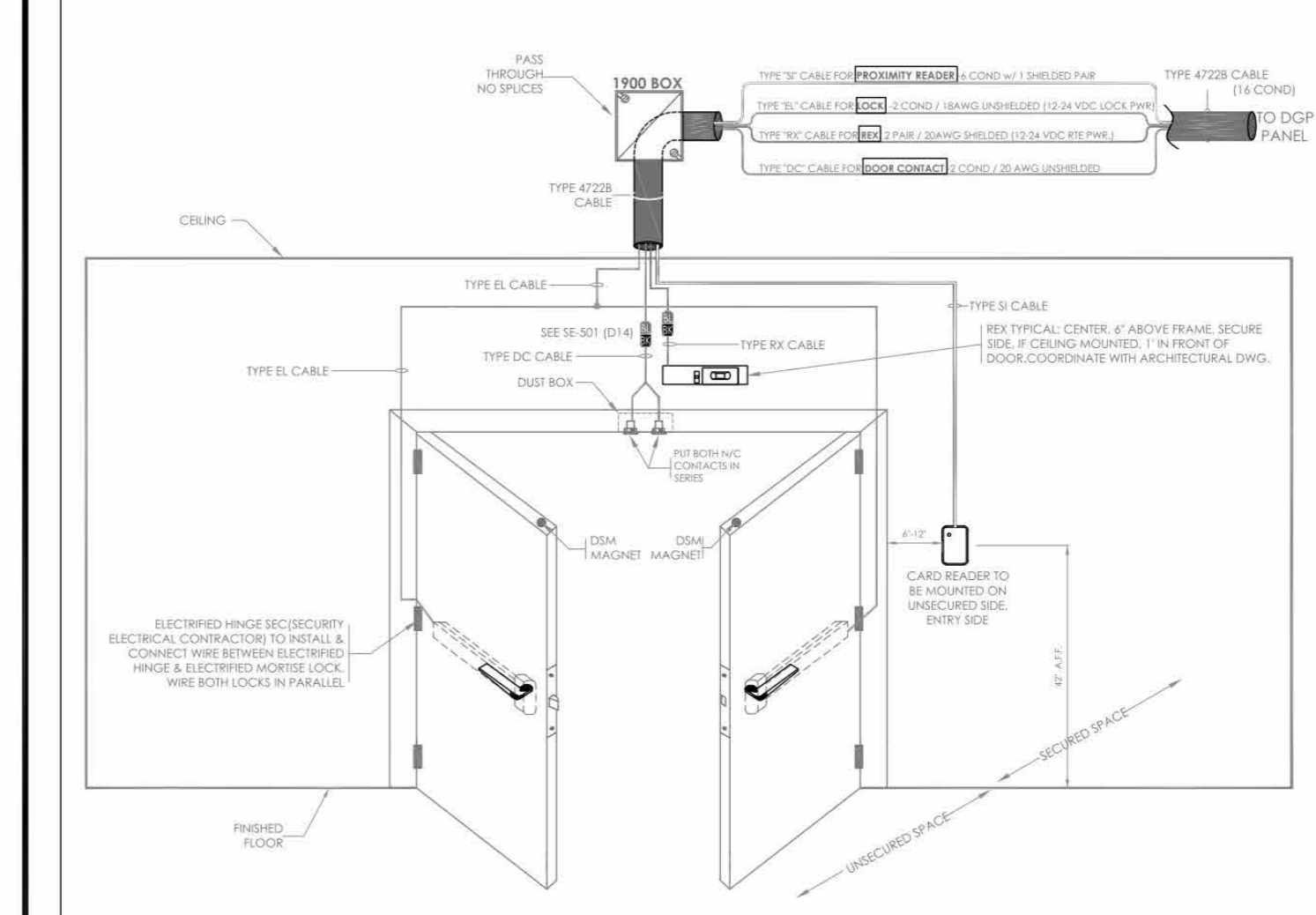
Sheet Number
SE301

NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE ELEVATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENR DRAWINGS AND REVISIONS FOR THE SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DEVELOP A TURN KEY SOLUTION TO OWNER.
3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
4. PRIOR TO PULLING CABLE WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED BY WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CABLES MUST BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED REBAR AND NOTE ON THE REBAR.
7. CONTRACTOR TO PROVIDE AND DELIVER A BOUND AS BUILT SET IN BOTH "E" SIZE HARD COPY (2 SETS) AND DIGITAL FORMATS.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LV) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN KEY SOLUTION.

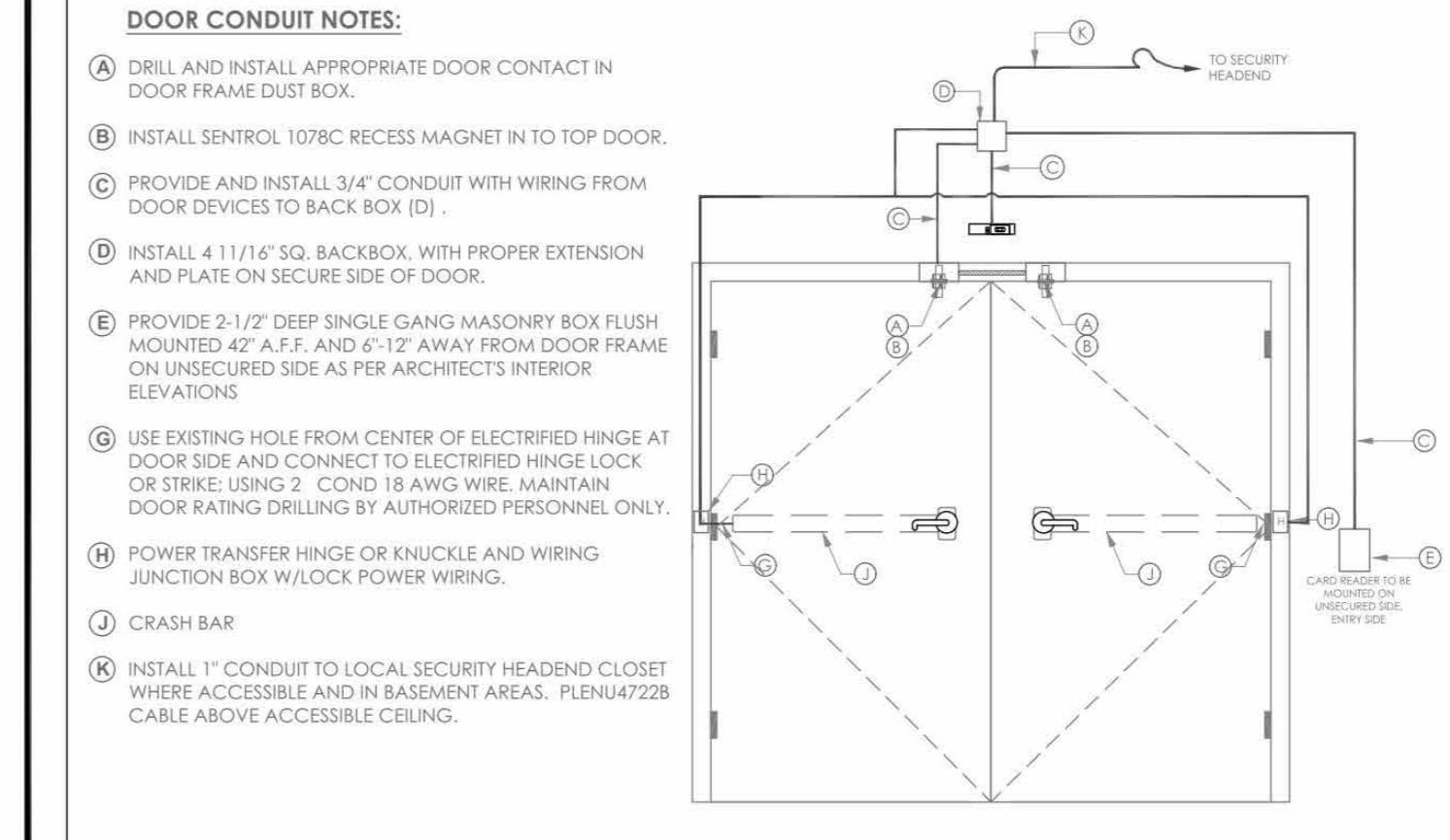
NOTE:
CONTRACTOR TO VERIFY ALL DOOR TYPES WITH THE GC/EC AND WORK WITH EC DURING THE CONSTRUCTION PHASE TO VERIFY ALL CONDUITS, STUB UPS AND PATHWAYS ARE DONE CORRECTLY TO ACCOMMODATE ALL SECURITY AND TELEDATA DEVICES AS NEEDED.

ACCESS CONTROL DOOR - CARD READER, DOUBLE DOOR CONTACT, ELECTRIFICRIFIED CRASH BAR, REQUEST-TO-EXIT (REX) SENSOR



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

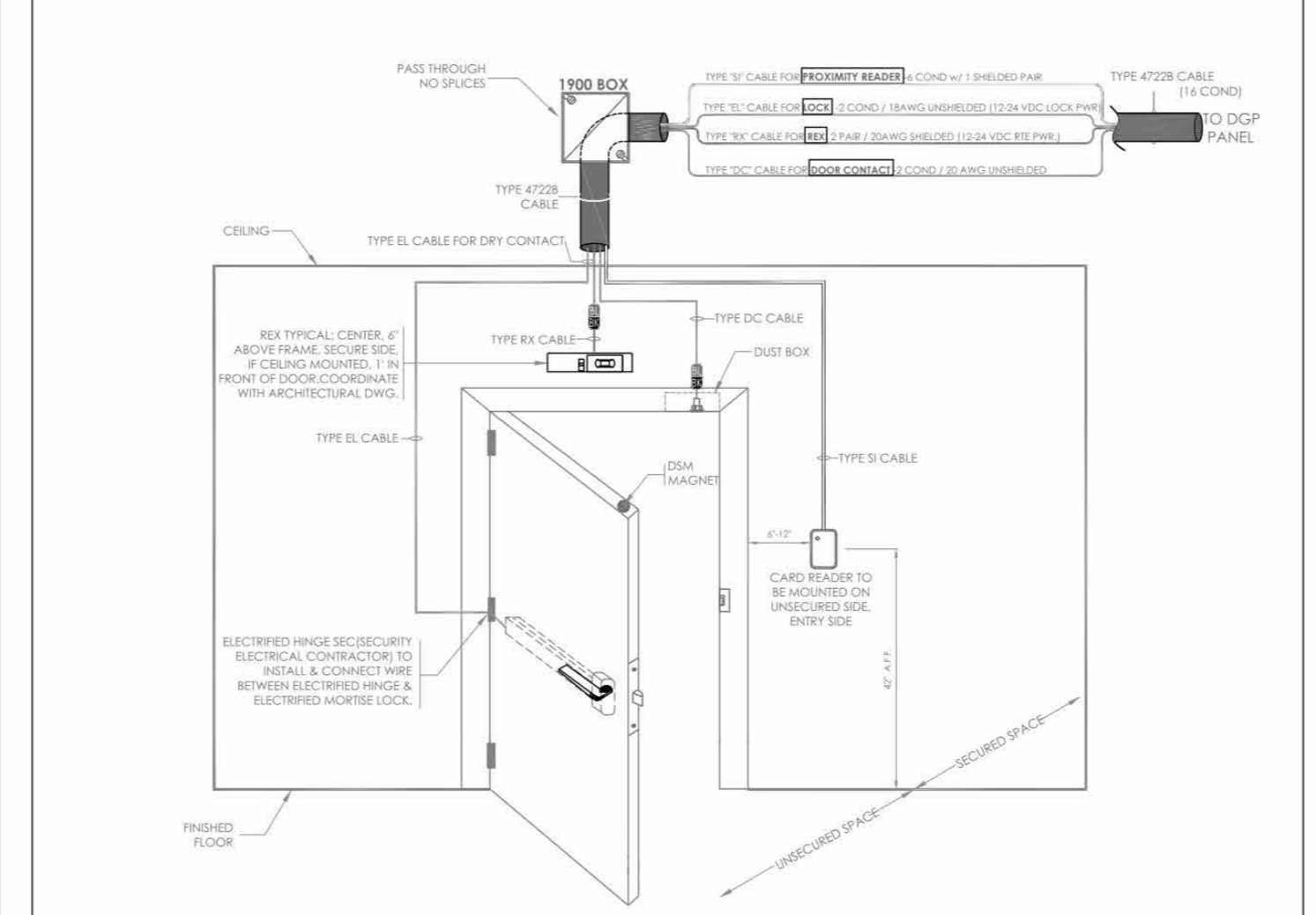
CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
D) INSTALL 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
E) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS.
F) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR. USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
G) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
H) CRASH BAR WITH BUILT-IN REX SWITCH.
I) INSTALL 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN47228 CABLE ABOVE ACCESSIBLE CEILING.
J) CRASH BAR.
K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN47228 CABLE ABOVE ACCESSIBLE CEILING.

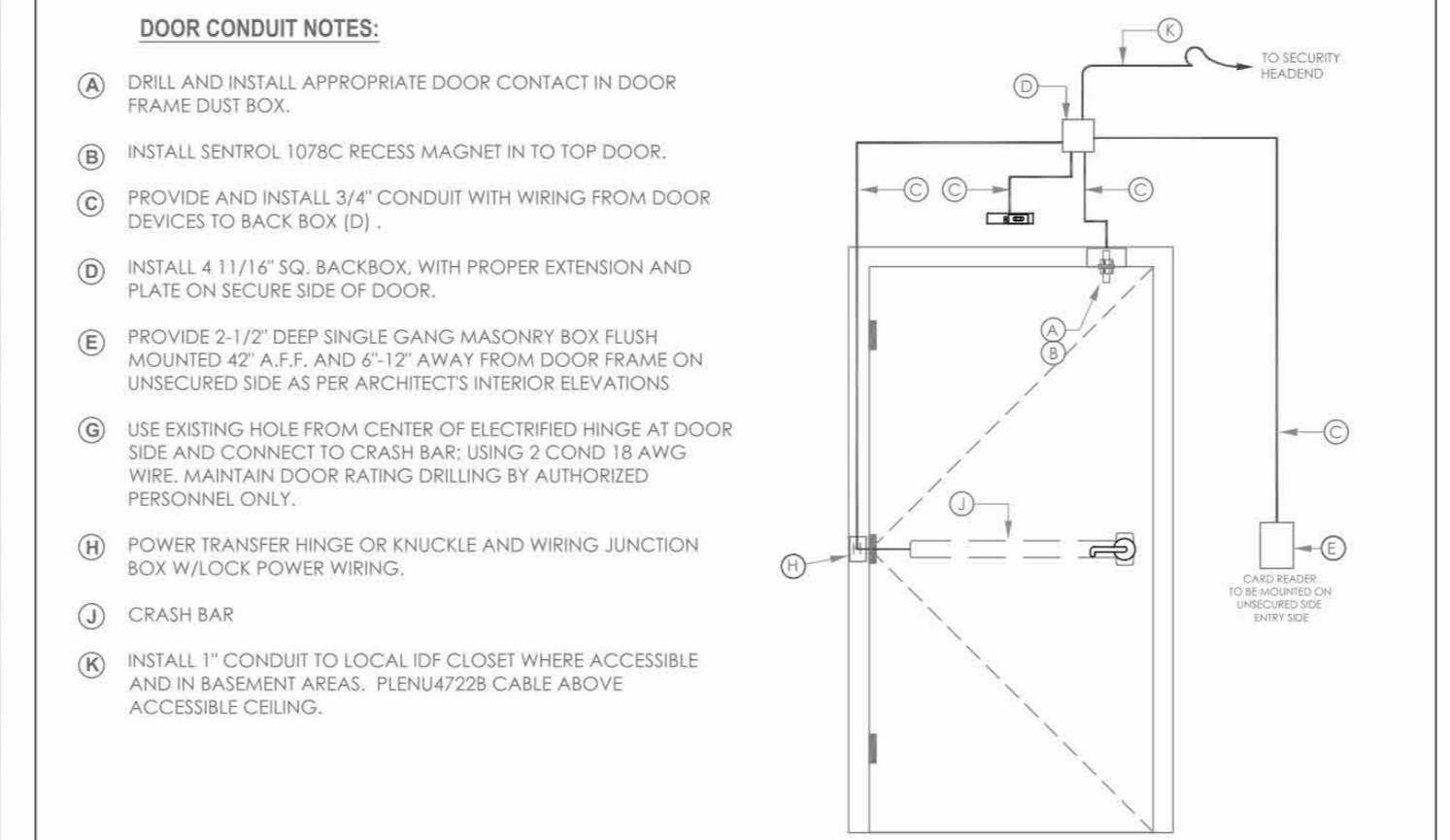
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DTL: D04

ACCESS CONTROL DOOR - CARD READER, DOUBLE DOOR CONTACT, ELECTRIFICRIFIED CRASH BAR, REQUEST-TO-EXIT (REX) SENSOR



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

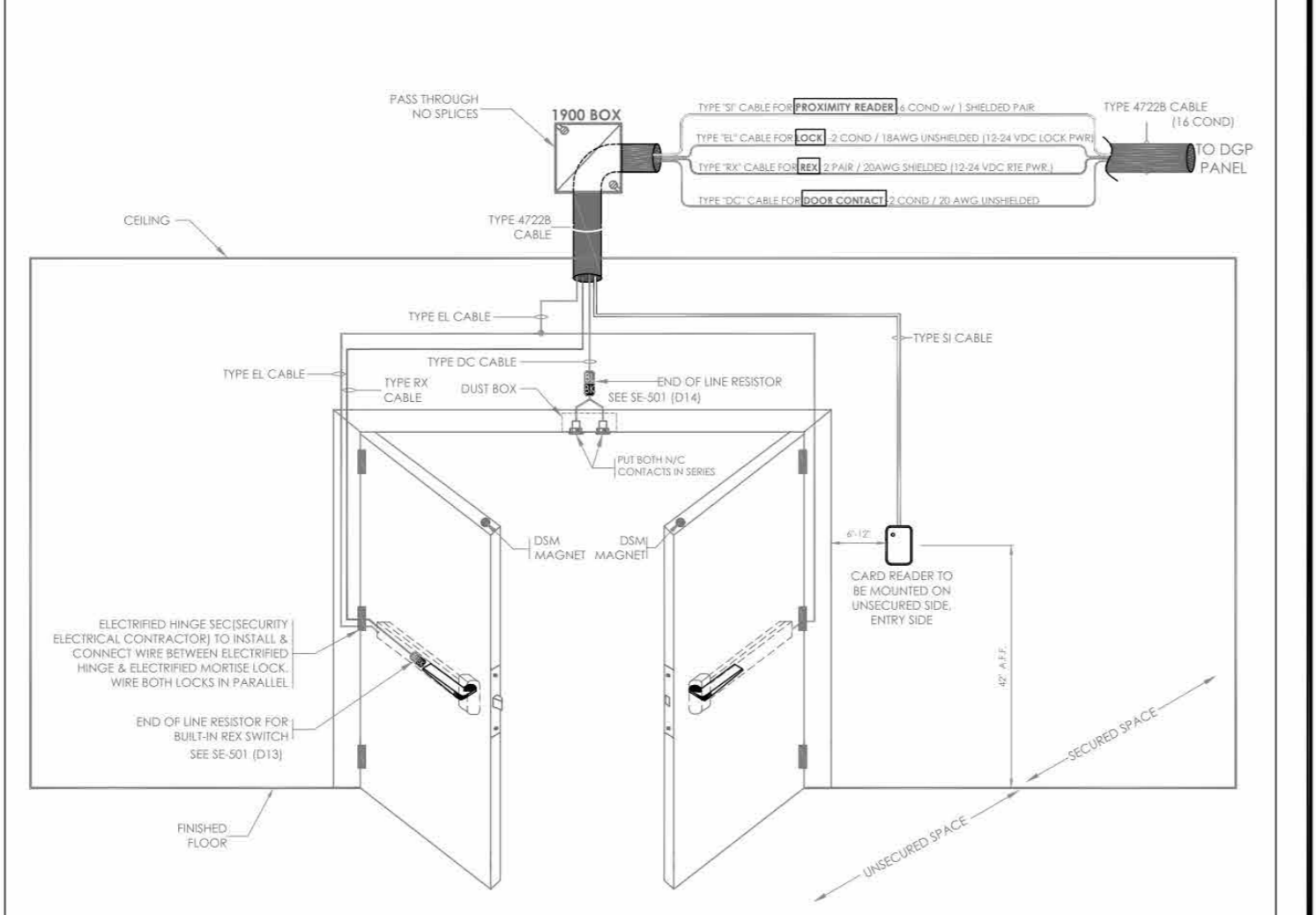
CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
D) INSTALL 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
E) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS.
F) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR. USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
G) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
H) CRASH BAR.
I) INSTALL 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN47228 CABLE ABOVE ACCESSIBLE CEILING.
J) CRASH BAR.
K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN47228 CABLE ABOVE ACCESSIBLE CEILING.

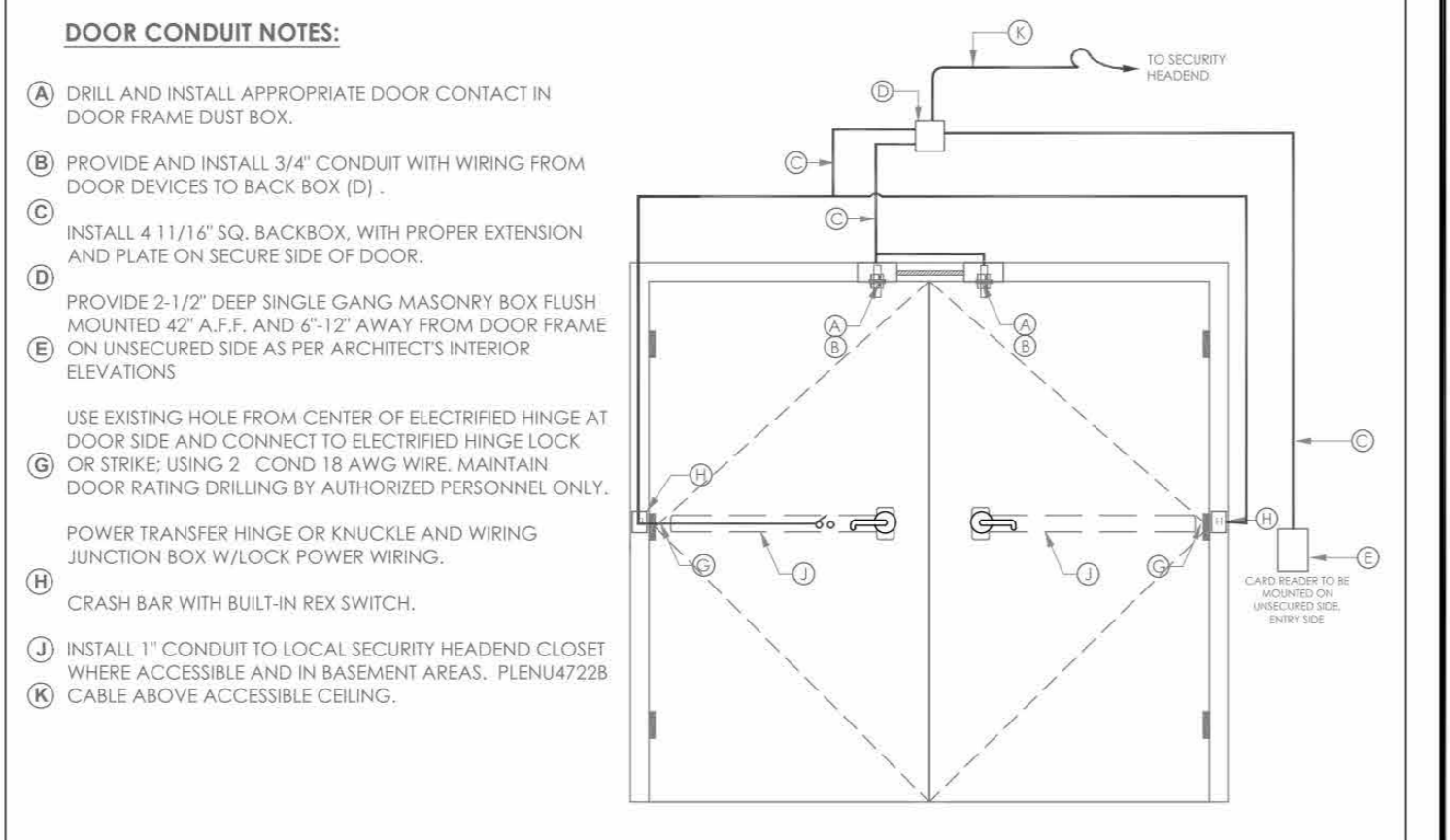
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DTL: D03

ACCESS CONTROL DOOR - CARD READER, DOUBLE DOOR CONTACT, ELECTRIFICRIFIED CRASH BAR w/BUILT-IN REX SWITCH



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

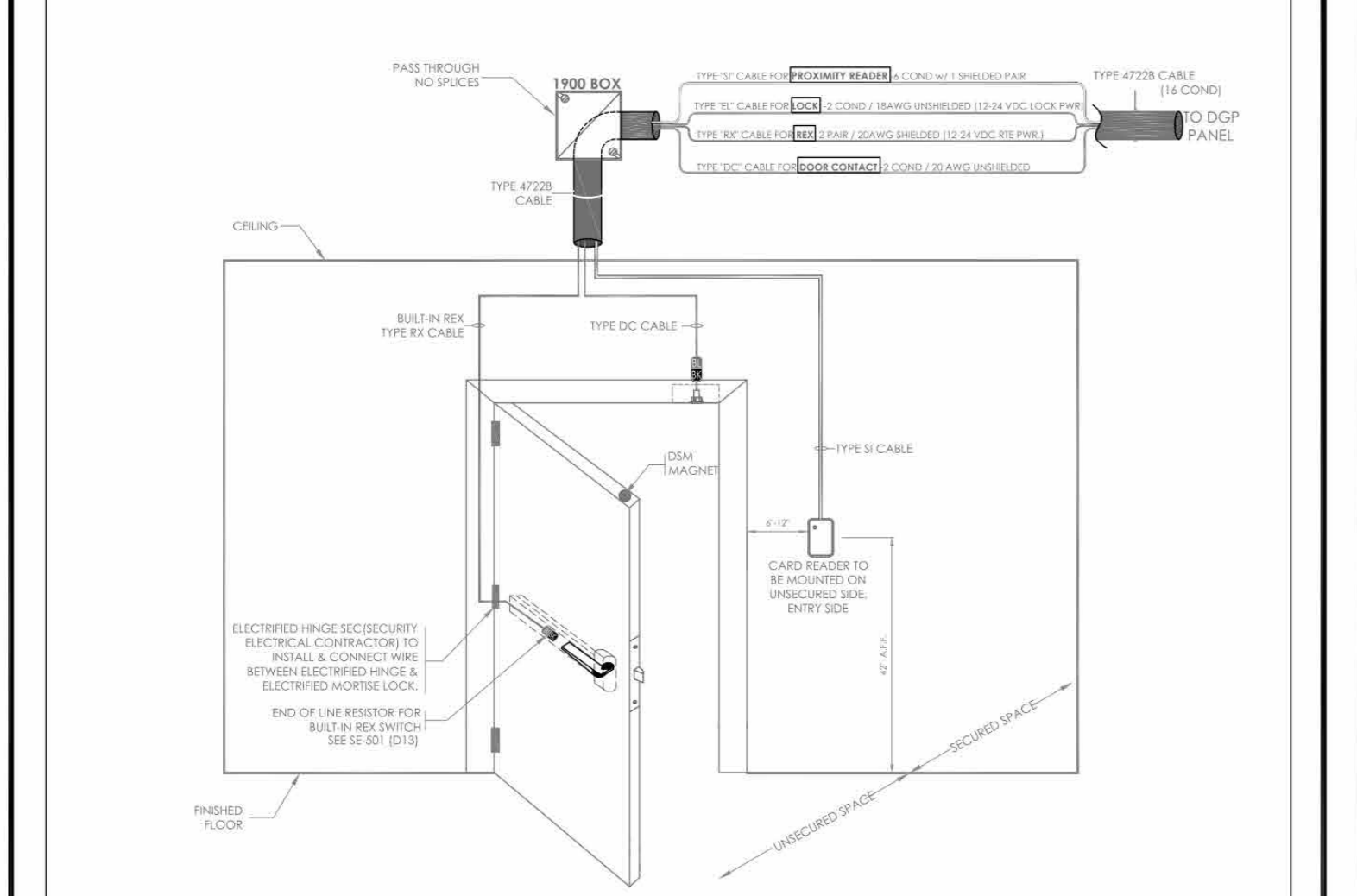
CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
B) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
D) INSTALL 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
E) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS.
F) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR. USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
G) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
H) CRASH BAR WITH BUILT-IN REX SWITCH.
I) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN47228 CABLE ABOVE ACCESSIBLE CEILING.
J) CRASH BAR.
K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN47228 CABLE ABOVE ACCESSIBLE CEILING.

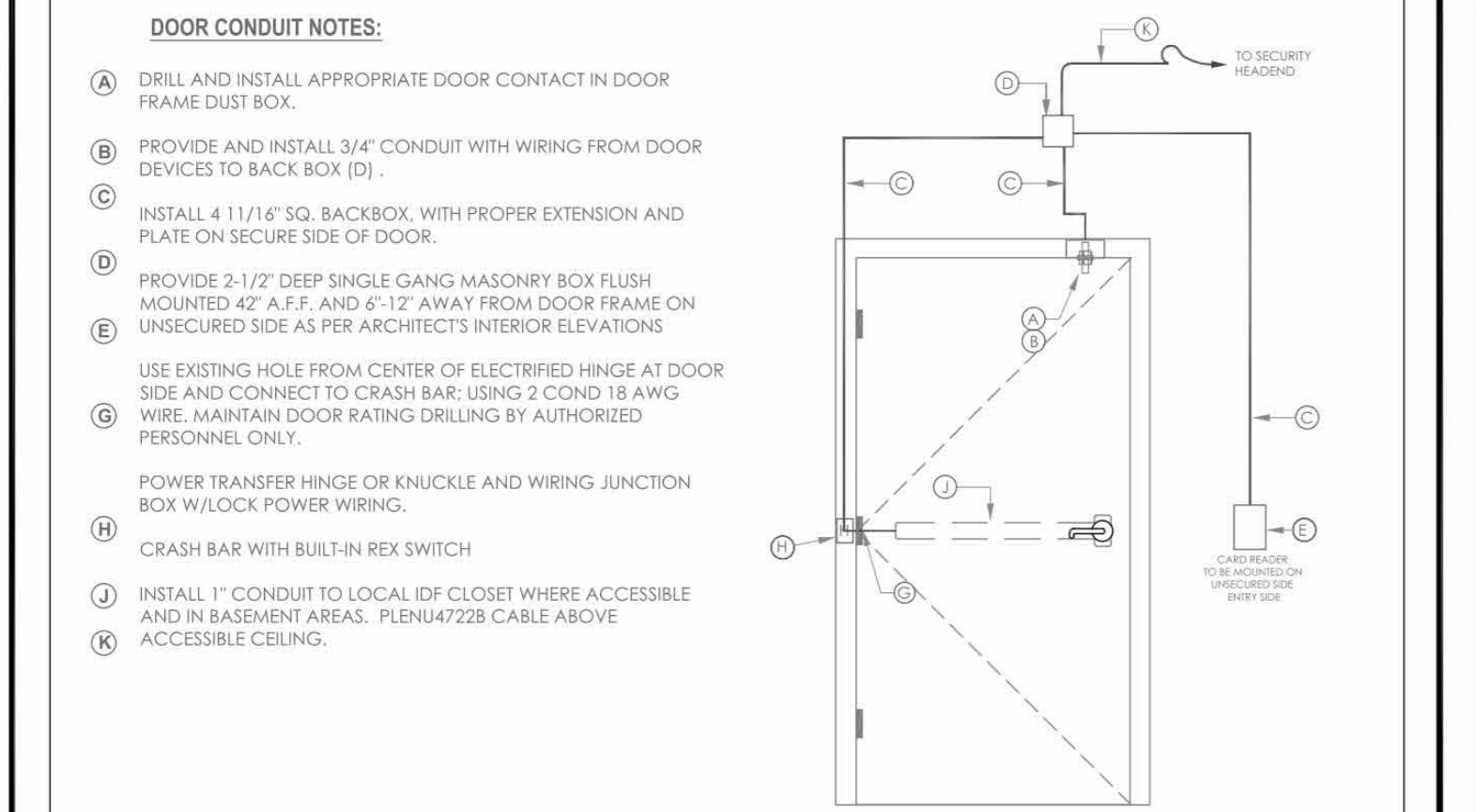
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DTL: D02

ACCESS CONTROL DOOR - CARD READER, DOOR CONTACT, ELECTRIFICRIFIED CRASH BAR w/BUILT-IN REX SWITCH



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

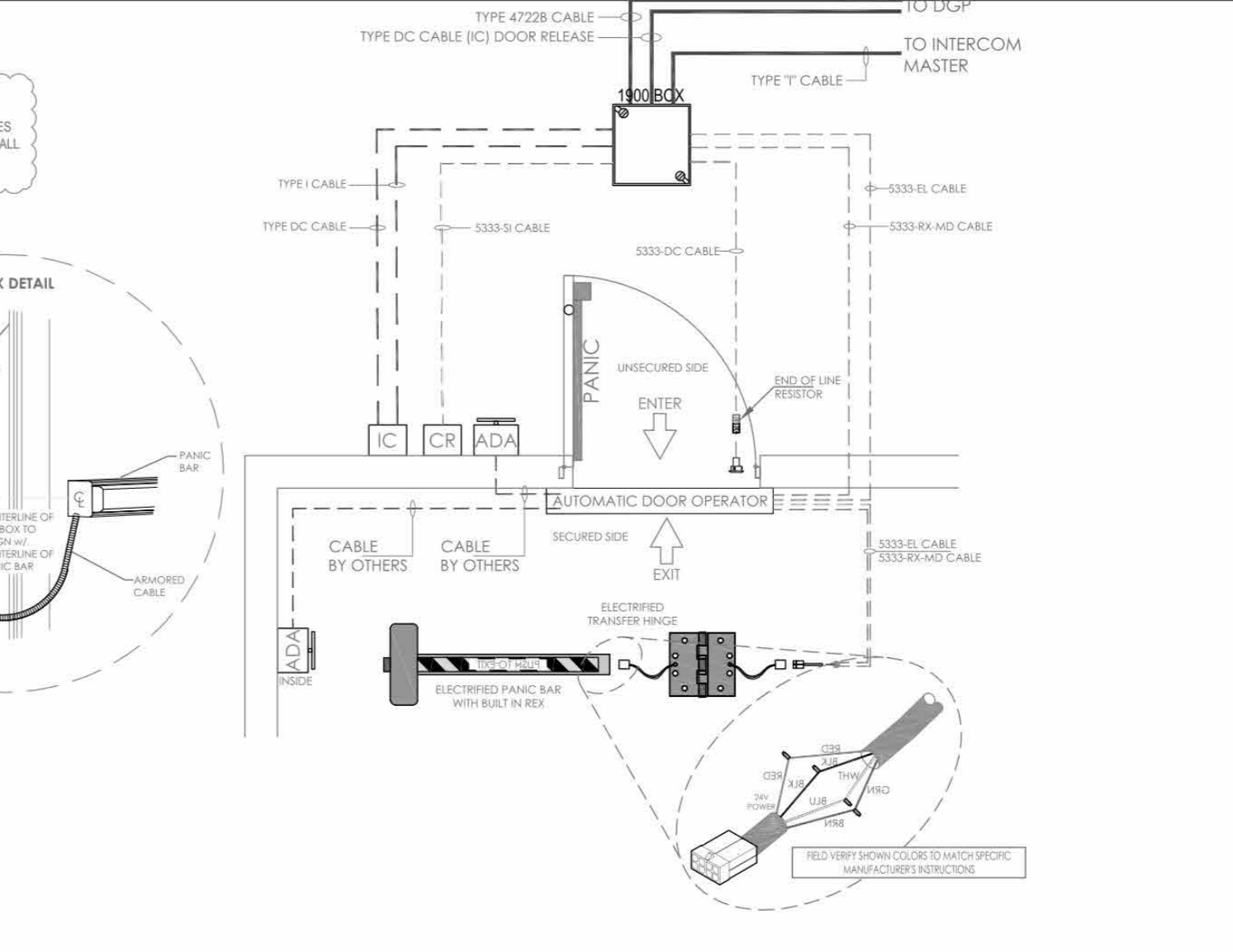
CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
B) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
C) INSTALL 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
D) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS.
E) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR. USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
F) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
G) CRASH BAR WITH BUILT-IN REX SWITCH.
H) INSTALL 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN47228 CABLE ABOVE ACCESSIBLE CEILING.
I) CRASH BAR.
J) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN47228 CABLE ABOVE ACCESSIBLE CEILING.

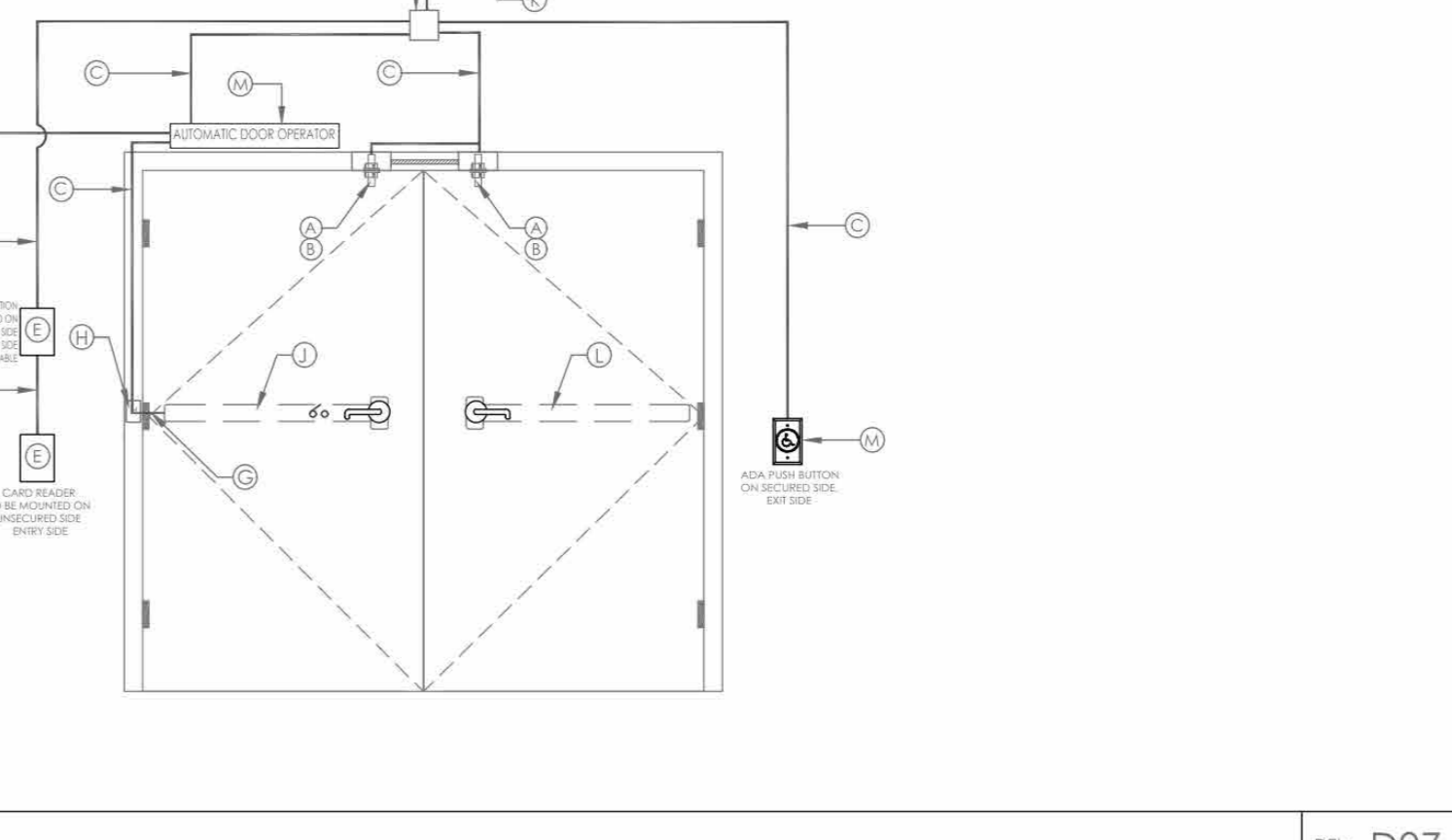
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DTL: D01

ACCESS CONTROL DOOR - CARD READER, DOUBLE DOOR CONTACT, AUTOMATIC DOOR OPERATOR, ELECTRIFICRIFIED CRASH BAR w/BUILT-IN REX SWITCH



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

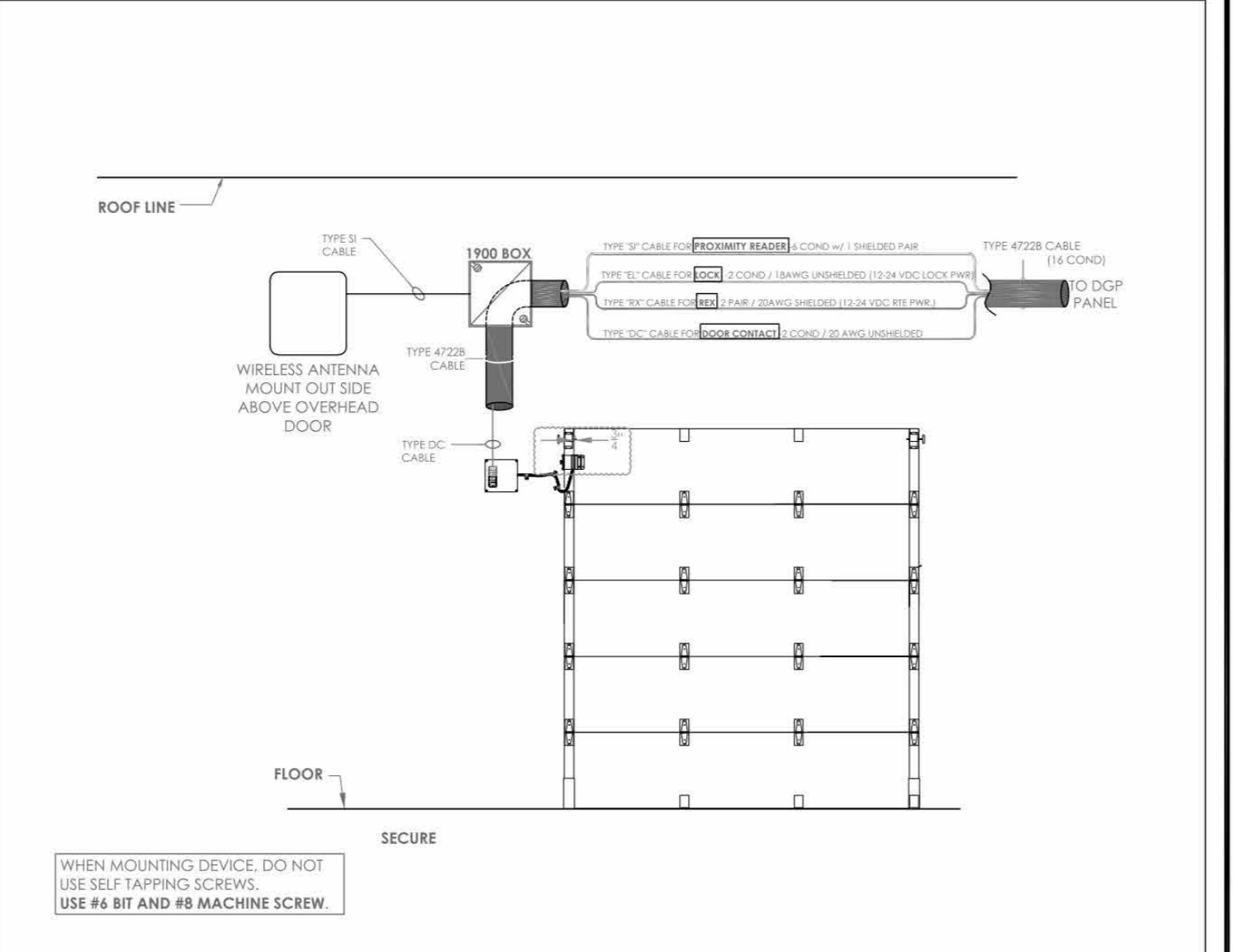
CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
B) INSTALL ASSOCIATED MATCHING RECESS MAGNET IN TOP OF DOOR.
C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
D) INSTALL 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
E) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECT'S INTERIOR ELEVATIONS.
F) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR. USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
G) ELECTRIFIED POWER TRANSFER OR KNUCKLE AND WIRING JUNCTION BOX WITH LOCK POWER WIRING.
H) ELECTRIFIED CRASH BAR WITH BUILT-IN REX SWITCH.
I) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE. PLEN47228 CABLE ABOVE ACCESSIBLE CEILING.
J) MECHANICAL CRASH BAR.
K) AUTOMATIC DOOR OPERATOR AND ADA BUTTONS TO BE PROVIDED AND FURNISHED BY OTHERS.

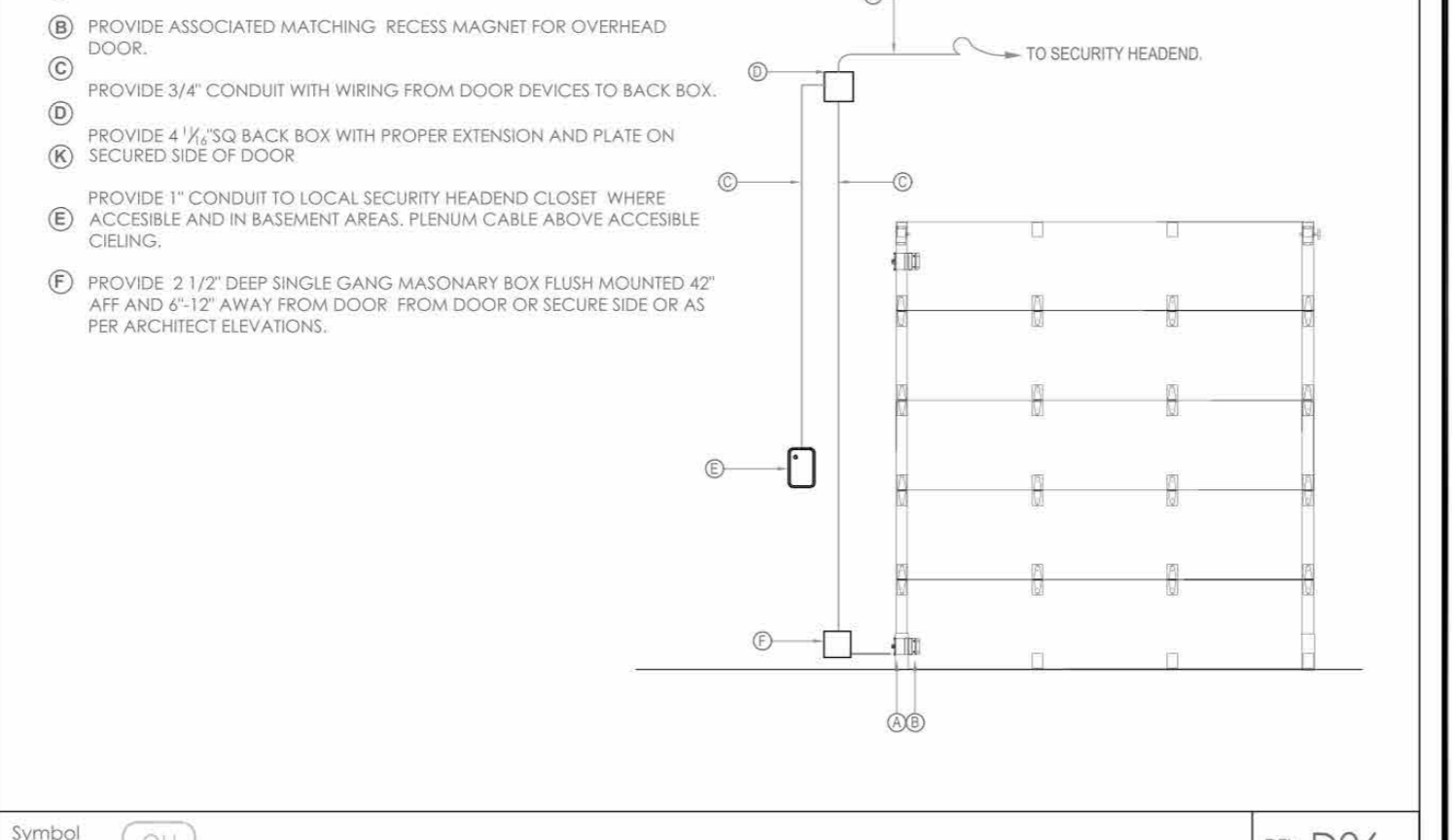
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DTL: D07

OVERHEAD DOOR w/ CARD READER & CONTACT



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

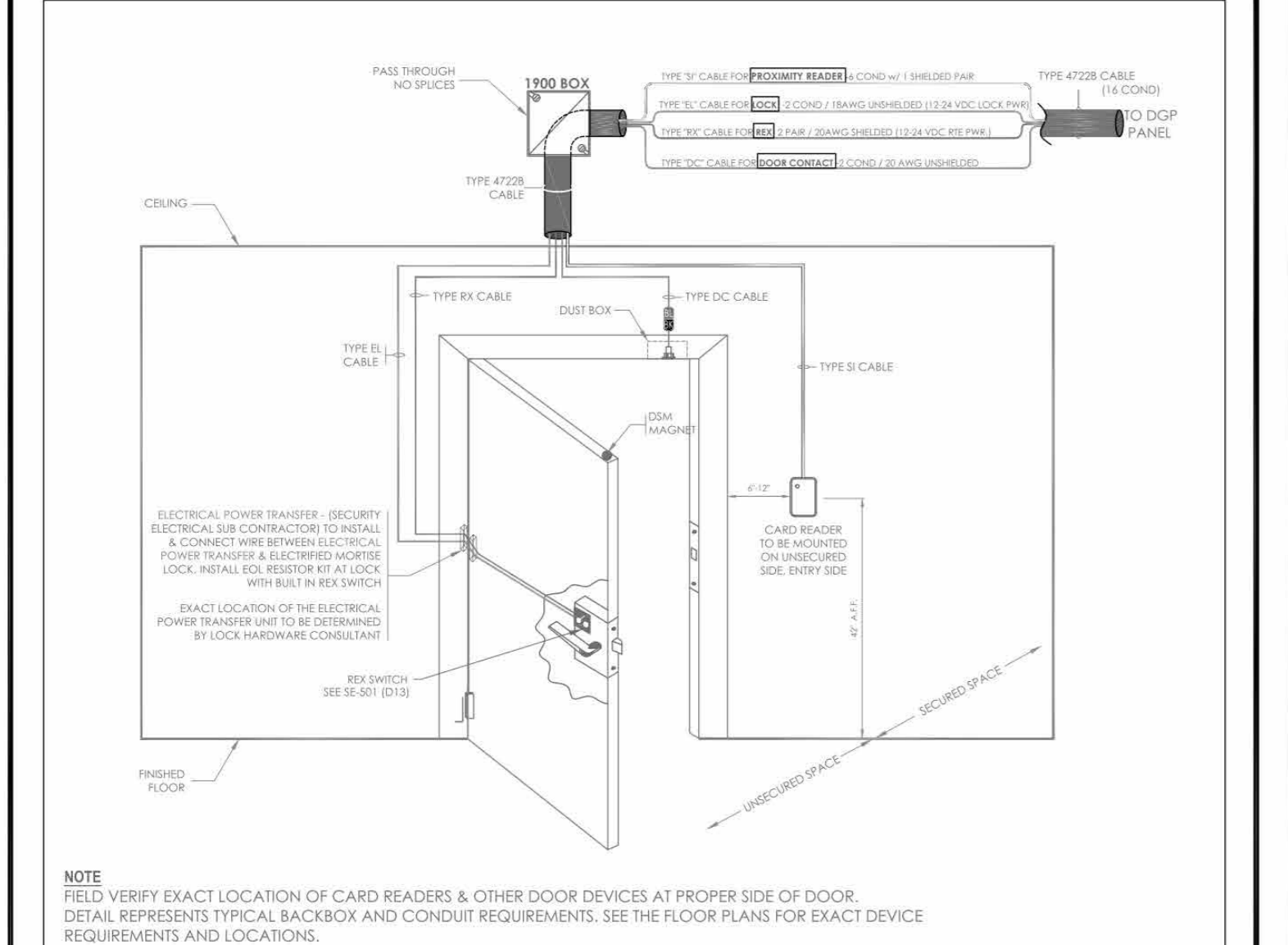
CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) PROVIDE APPROPRIATE OVERHEAD CONTACT IN FOR OVERHEAD DOOR.
B) PROVIDE ASSOCIATED MATCHING RECESS MAGNET FOR OVERHEAD DOOR.
C) PROVIDE 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
D) PROVIDE 4 1/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
E) PROVIDE 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLEN47228 CABLE ABOVE ACCESSIBLE CEILING.
F) PROVIDE 2 1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6 1/2" AWAY FROM DOOR FROM DOOR OR SECURE SIDE OR AS PER ARCHITECT'S INTERIOR ELEVATIONS.

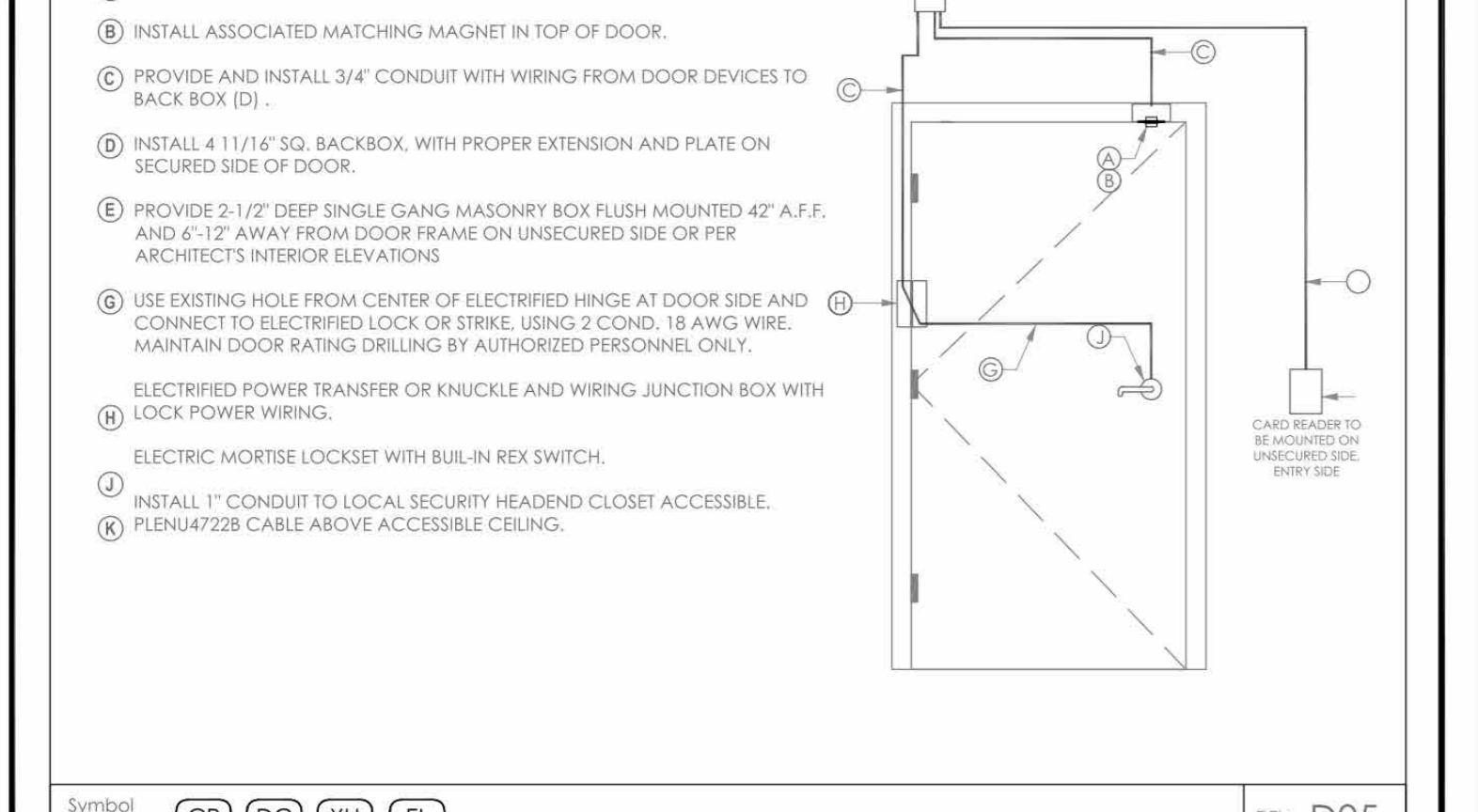
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DTL: D06

ACCESS CONTROL DOOR - CARD READER, DOOR CONTACT, ELECTRIC MORTISE LOCK w/BUILT-IN REX SWITCH



NOTE: FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

CONDUIT AND WIRING ROUGH-IN LAYOUT



DOOR CONDUIT NOTES:
A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
B) INSTALL ASSOCIATED MATCHING RECESS MAGNET IN TOP OF DOOR.
C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
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F) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR. USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
G) ELECTRIFIED POWER TRANSFER OR KNUCKLE AND WIRING JUNCTION BOX WITH LOCK POWER WIRING.
H) ELECTRIC MORTISE LOCKSET WITH BUILT-IN REX SWITCH.
I) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE. PLEN47228 CABLE ABOVE ACCESSIBLE CEILING.

Symbol on Drawg: CR DC XH EL REX
DTL: D05

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

DESIGNED BY: EM
DRAWN BY: AO
CHECKED BY: IT

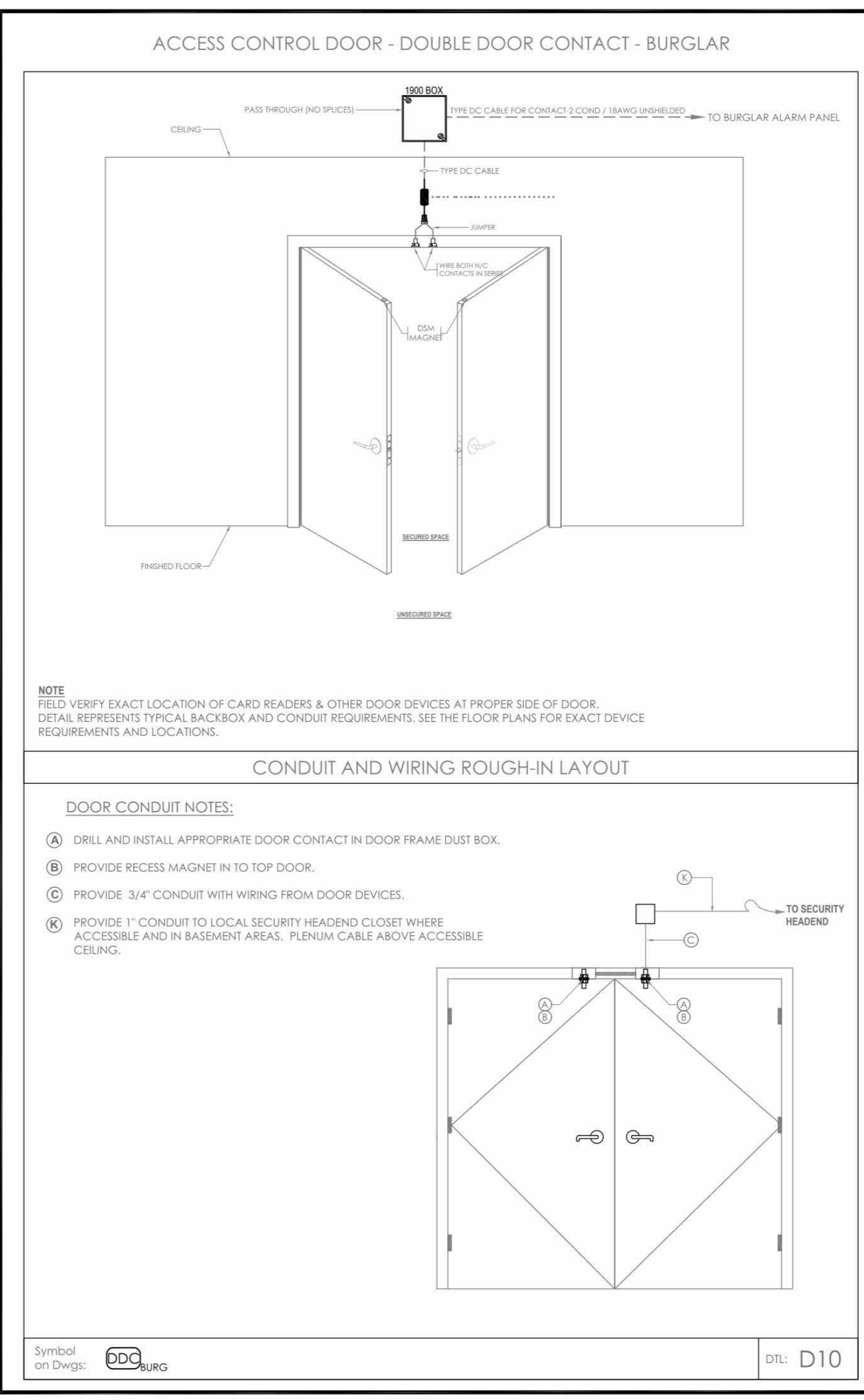
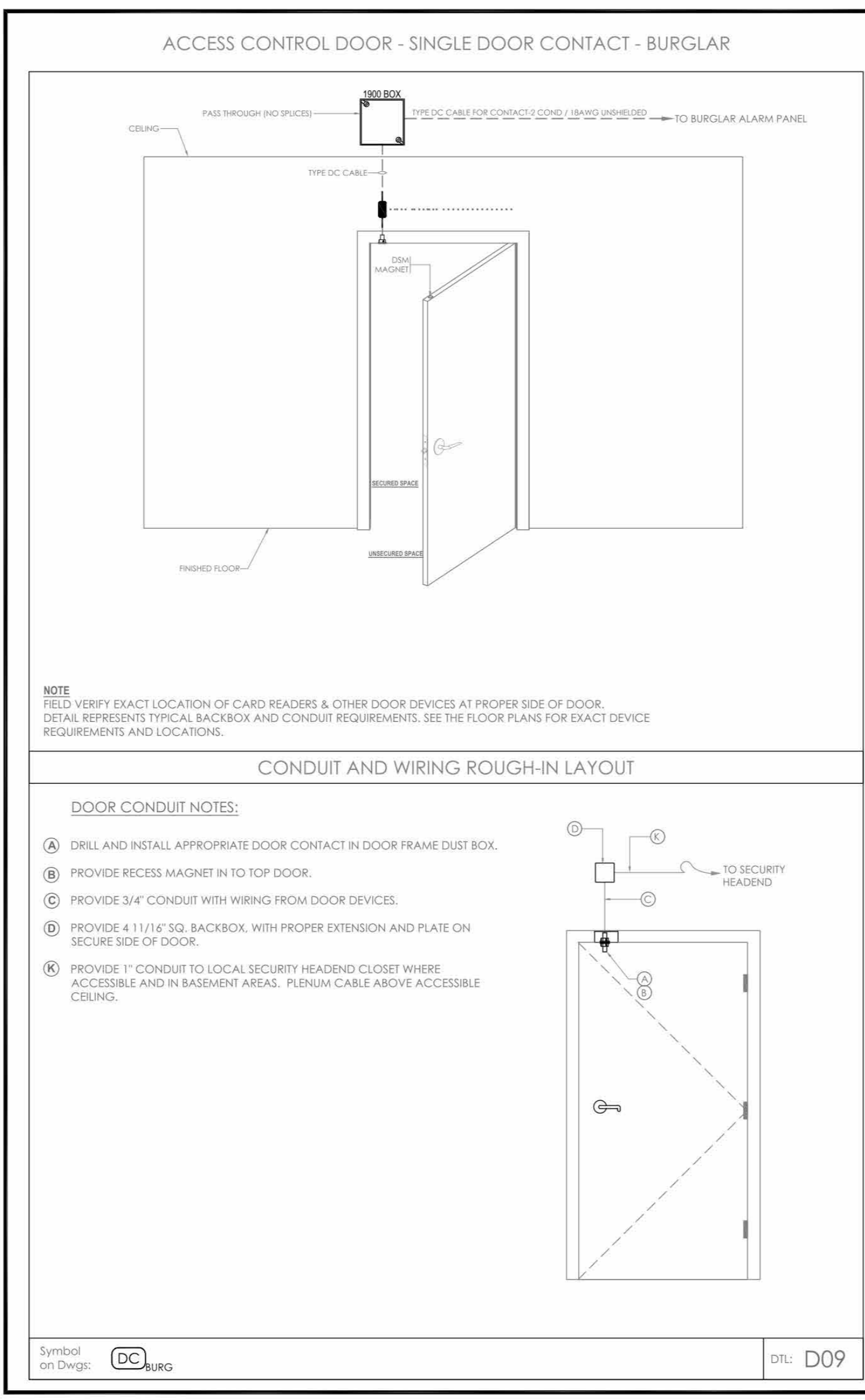
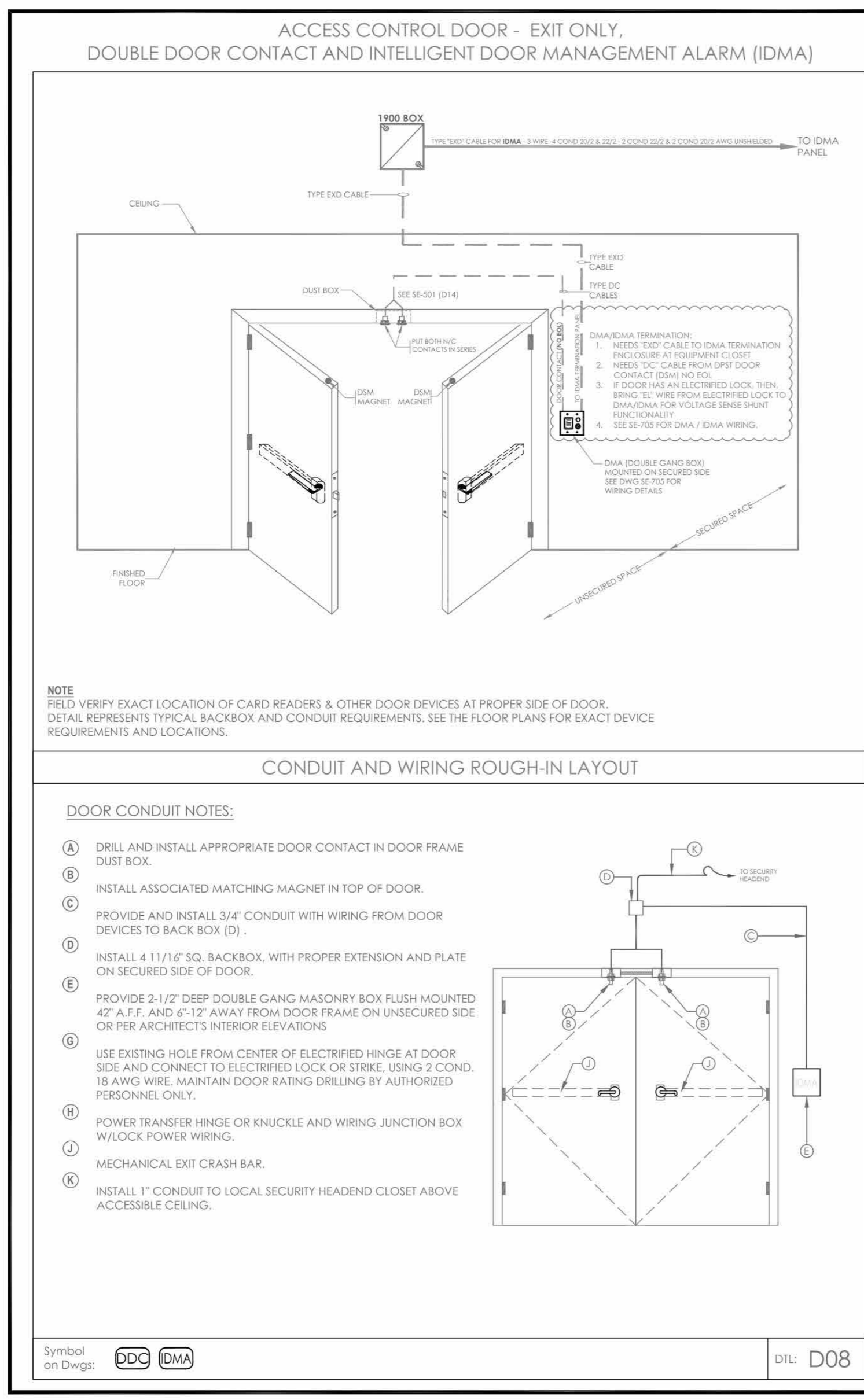
WORK ORDER NO: DATE: 12/08/2023
SCALE:
S.A. NO: SE-500

SECURITY EQUIPMENT DETAIL DOOR TYPICALS-1

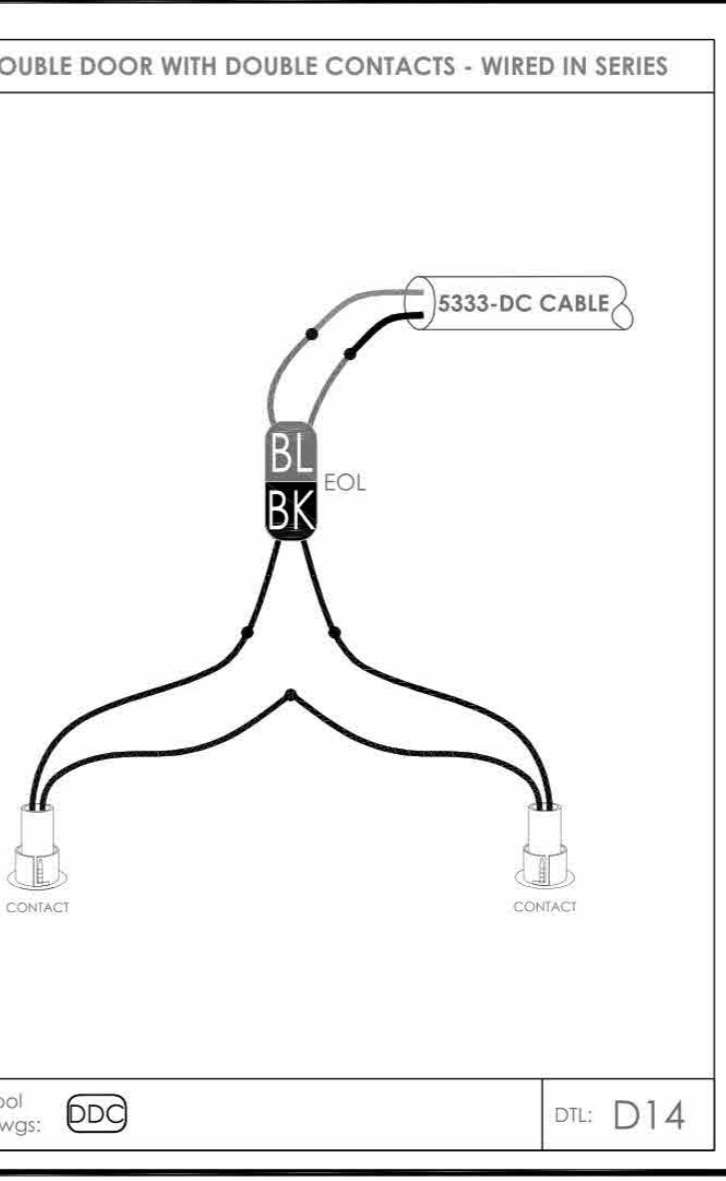
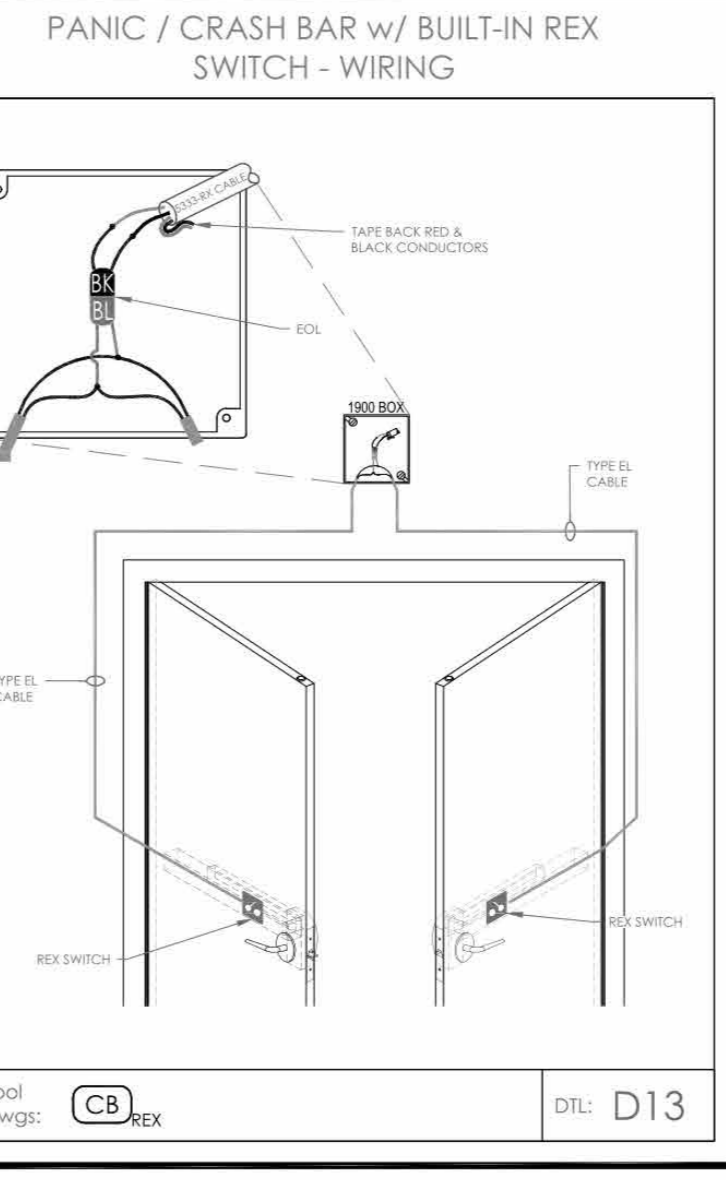
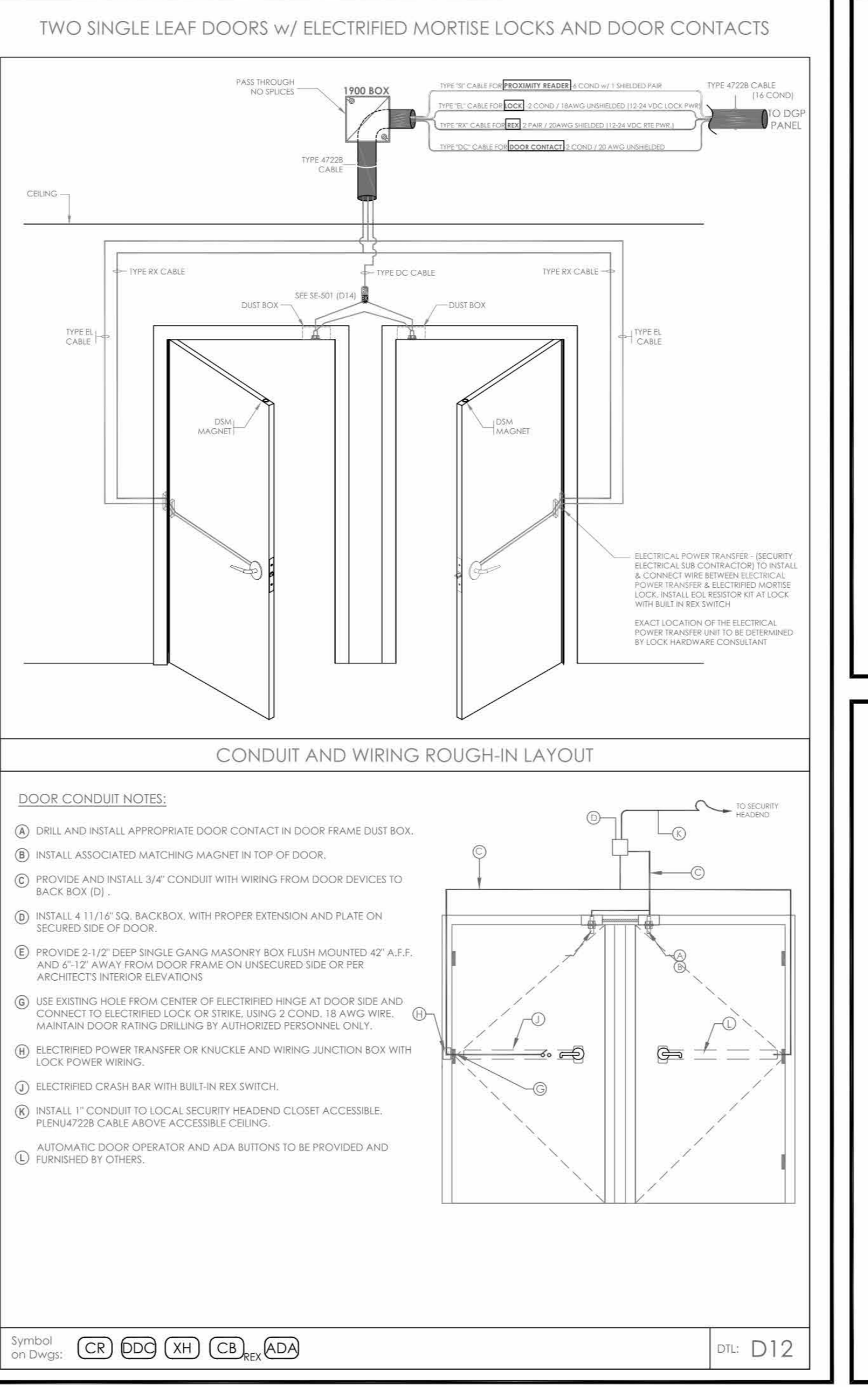
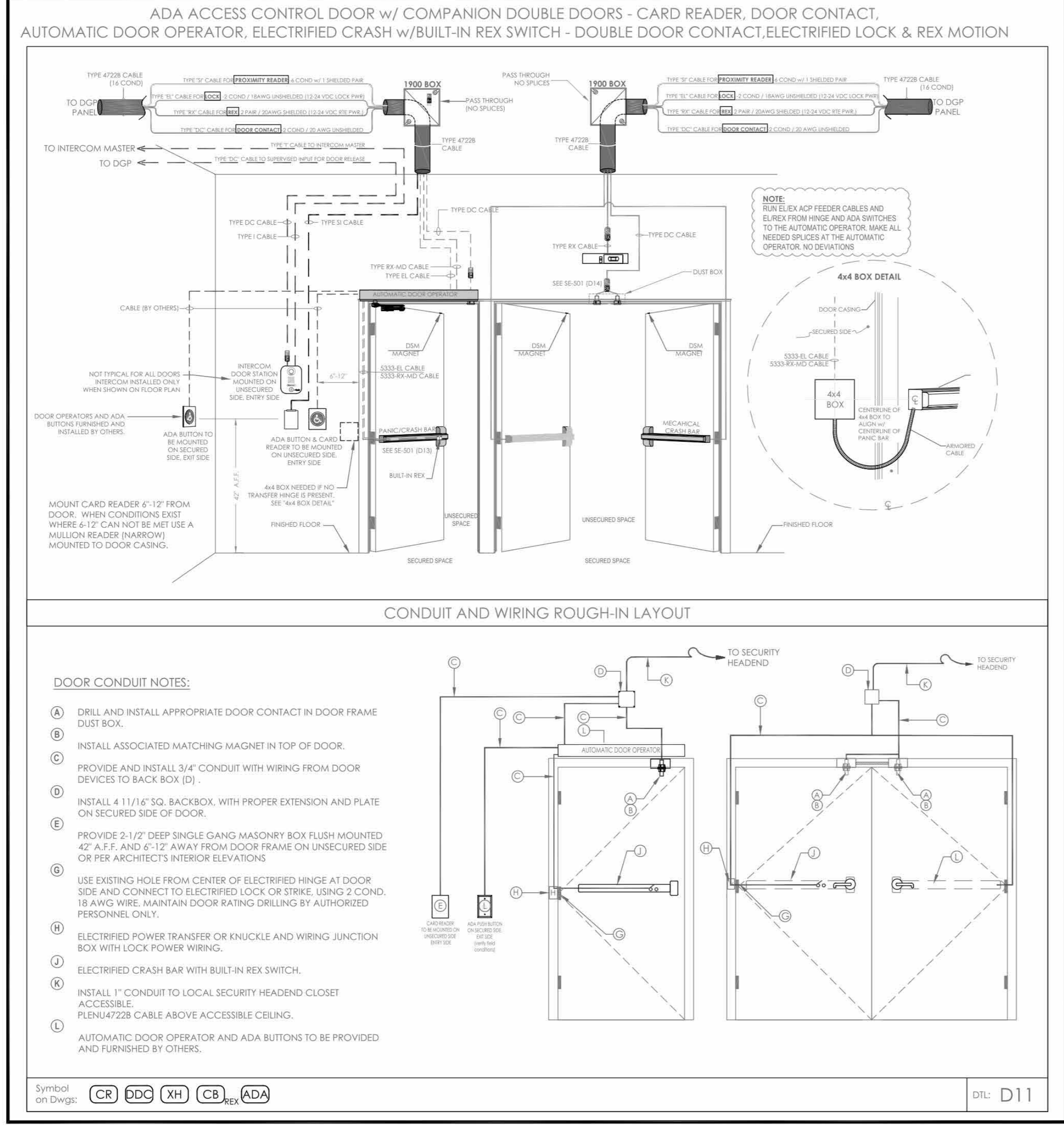
Job No.	Date
2020-1005	06/05/24

Scale: AS NOTED
Drawn / Checked: Author Checker

Sheet Number: **SE500**



NOTE: CONTRACTOR TO VERIFY ALL DOOR TYPES WITH THE GC/EC AND WORK WITH EC DURING THE CONSTRUCTION PHASE TO VERIFY ALL CONDUITS, STUB UPS AND PATHWAYS ARE DONE CORRECTLY TO ACCOMMODATE ALL SECURITY AND TELEDATA DEVICES AS NEEDED



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SECURITY EQUIPMENT DETAIL DOOR TYPICALS-2

EM	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE	12/08/2023
S.A. NO:	DRAWING NO:	SE-501

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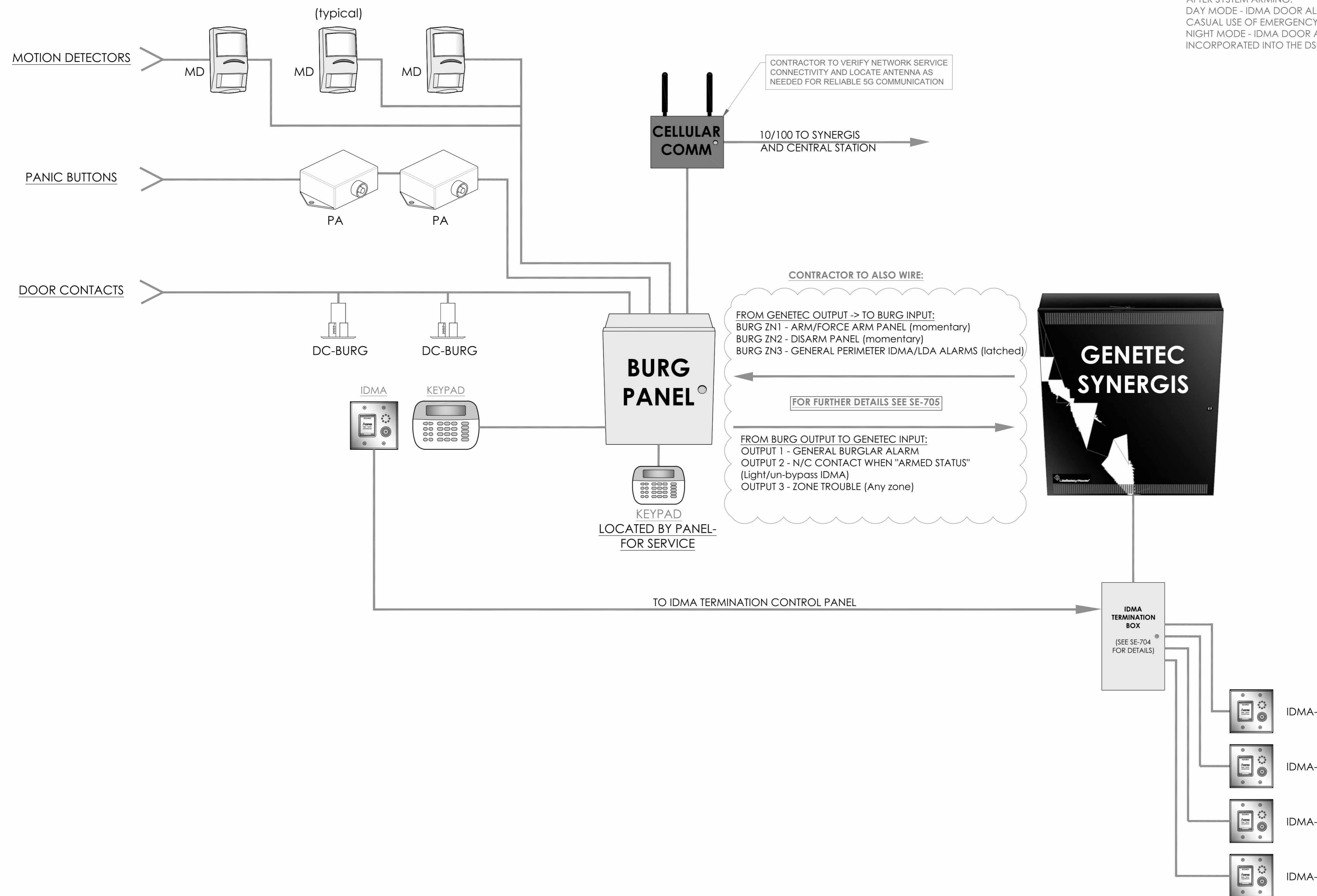
No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title: **SECURITY EQUIPMENT DETAIL DOOR TYPICALS-2**

Job No: 2020-1005 Date: 06/05/24
Scale: AS NOTED Drawn / Checked: Author Checker

Sheet Number: **SE501**

BURGLAR & ACCESS - OVERALL SYSTEMS INTERFACE CONCEPT - ONE LINE DIAGRAM



NOTE:
CONTRACTOR TO INTERFACE DOOR ALARMS SUCH THAT THEY WILL BECOME PART OF THE BURGLAR ALARM SYSTEM AFTER SYSTEM ARMING.
DAY MODE - IDMA DOOR ALARMS ARE TO PREVENT CASUAL USE OF EMERGENCY DOORS
NIGHT MODE - IDMA DOOR ALARMS TO BE INCORPORATED INTO THE DSC BURGLAR ALARM SYSTEM

CONTRACTOR TO VERIFY NETWORK SERVICE CONNECTIVITY AND LOCATE ANTENNA AS NEEDED FOR RELIABLE 5G COMMUNICATION

CONTRACTOR TO ALSO WIRE:
FROM GENETEC OUTPUT -> TO BURG INPUT:
BURG ZN1 - ARM/FORCE ARM PANEL (momentary)
BURG ZN2 - DISARM PANEL (momentary)
BURG ZN3 - GENERAL PERIMETER IDMA/LDA ALARMS (latched)
FOR FURTHER DETAILS SEE SE-705
FROM BURG OUTPUT TO GENETEC INPUT:
OUTPUT 1 - GENERAL BURGLAR ALARM
OUTPUT 2 - N/C CONTACT WHEN "ARMED STATUS" (Light/un-bypass IDMA)
OUTPUT 3 - ZONE TROUBLE (Any zone)

NOTE: PERIMETER "DOOR CONTACT" STATUS IS PROVIDED BY IDMA VIA SYNERGIS & GENETEC IS SENT TO THE BURGLAR PANEL VIA API AND HARD WIRED TO ZONE#3. IDMA ALARMS ARE ANNOUNCED LOCALLY AT THE DOOR, THE SECURITY WORKSTATION SOFTWARE AND EMAIL NOTIFICATIONS

- NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHER ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE INFER DRAWINGS SET AND RELATED DIVISIONS 27, 28 SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERA'S FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING C.A.T.A. WIRE, CONTRACTOR TO VERIFY CABLE LENGTHS (NOT TO EXCEED) WHEN BROUGHT TO CLOSEST POINT.
 5. ALL C.A.T.A. CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED BIDDING AND NOTE ON THE "AS BUILT".
 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "E" SIZE HARD COPY (2 SETS) AND DIGITAL FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY, CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

HARRISON RECREATION & COMMUNITY CENTER
New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

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TITLE:
BURGLAR & ACCESS CONTROL OVERALL SYSTEM INTERFACE ONE LINE DIAGRAM

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EM	12/08/2023	IT

WORK ORDER NO: _____ DATE: 12/08/2023
SCALE: _____
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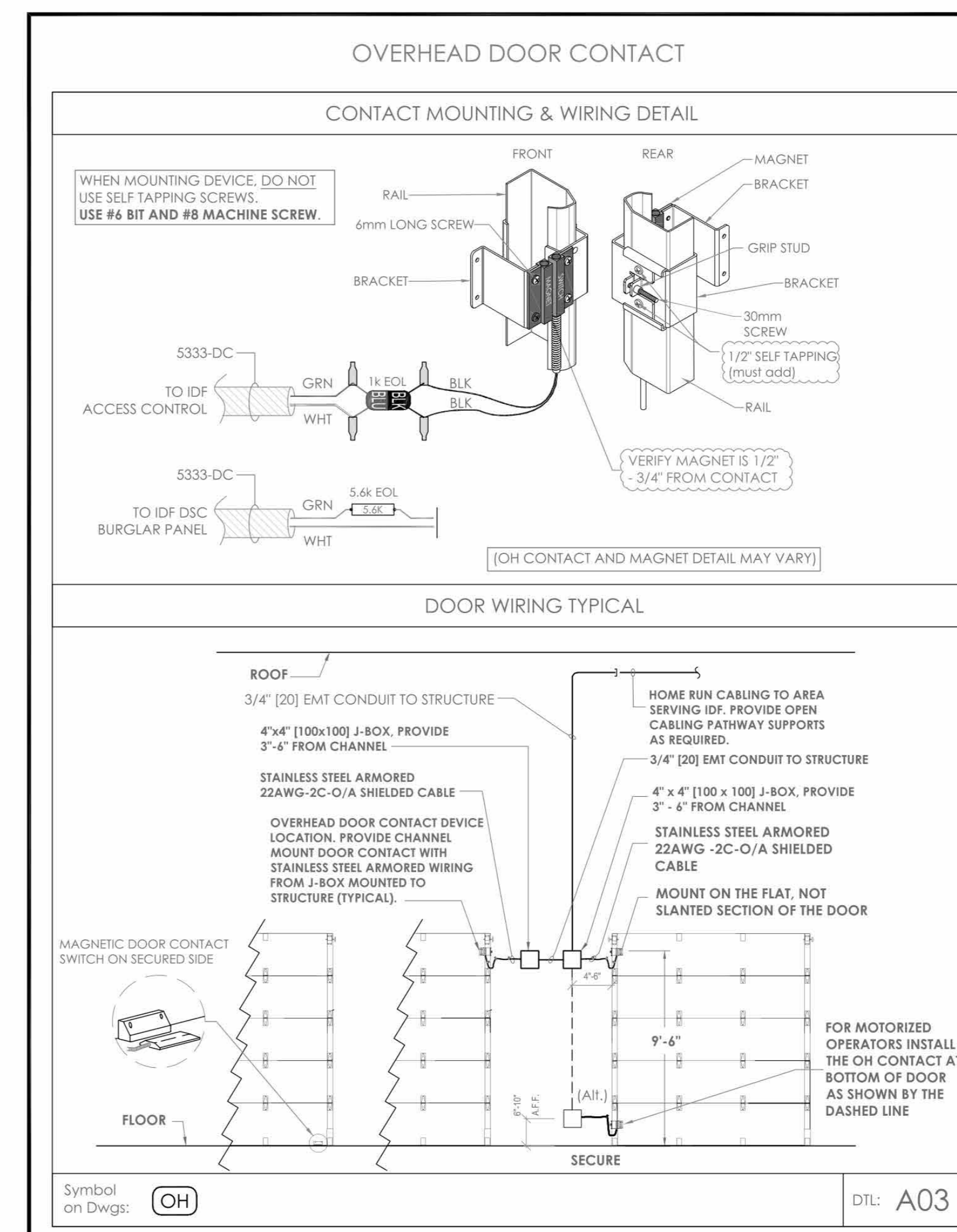
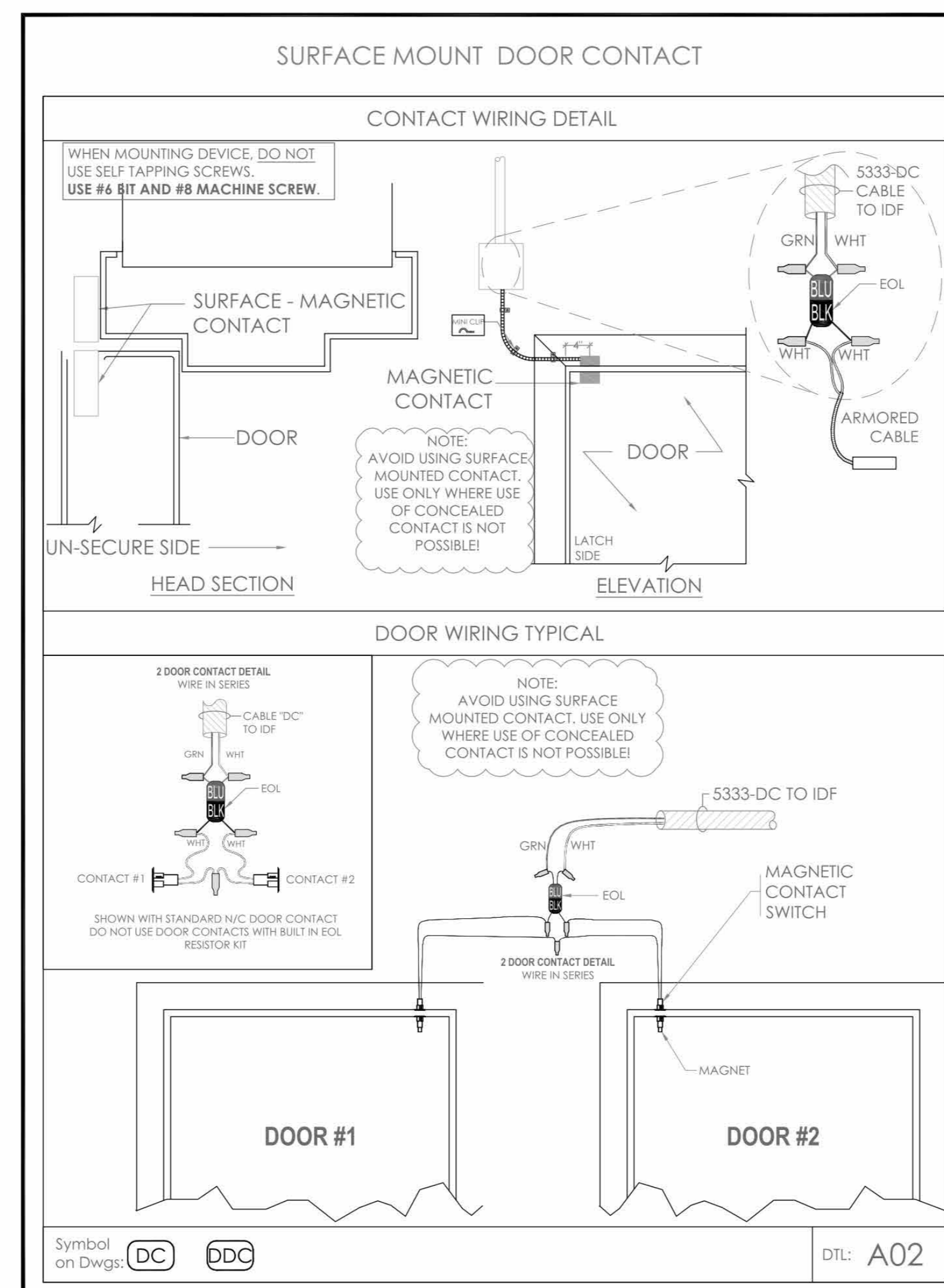
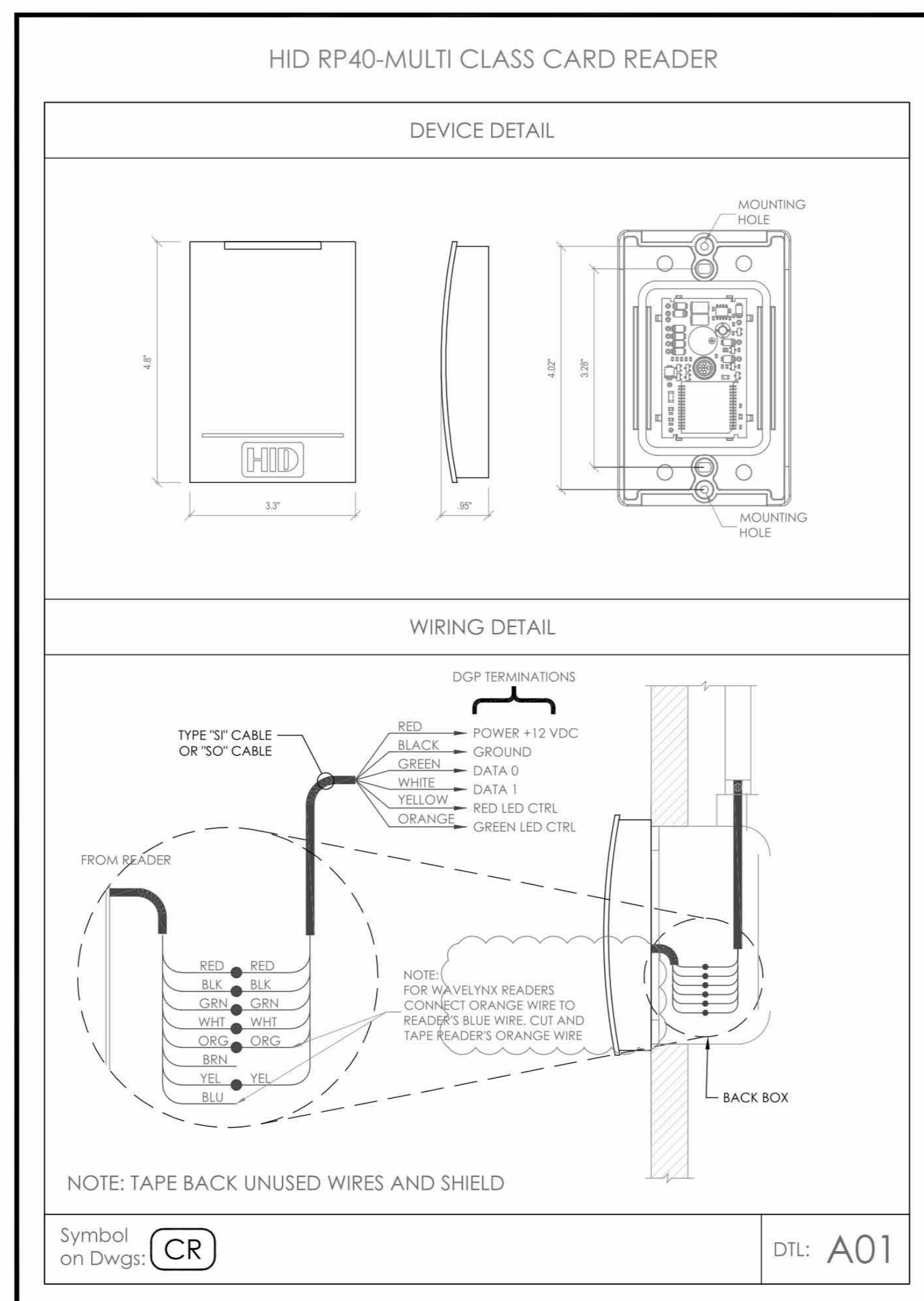
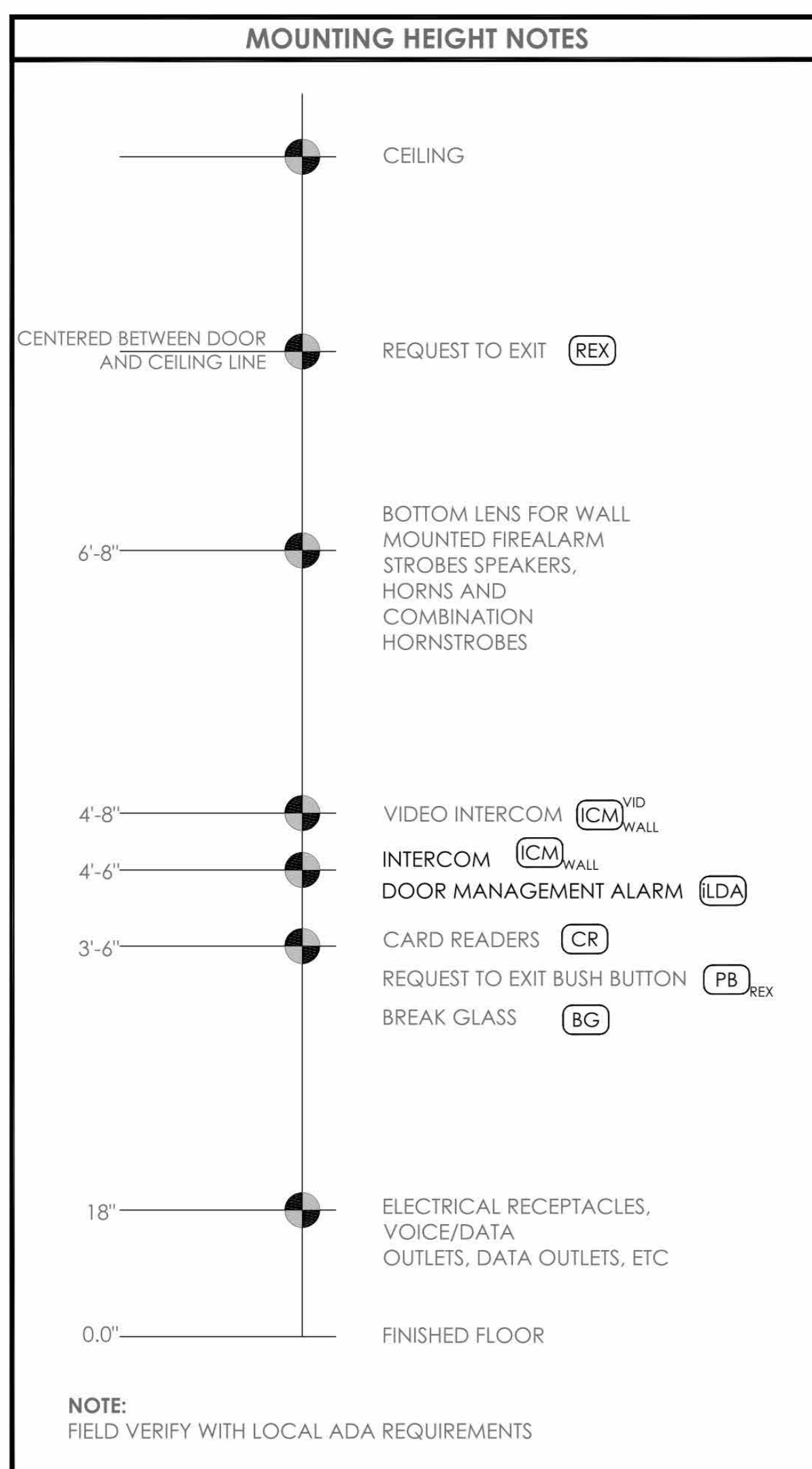
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No.	Date	Issue
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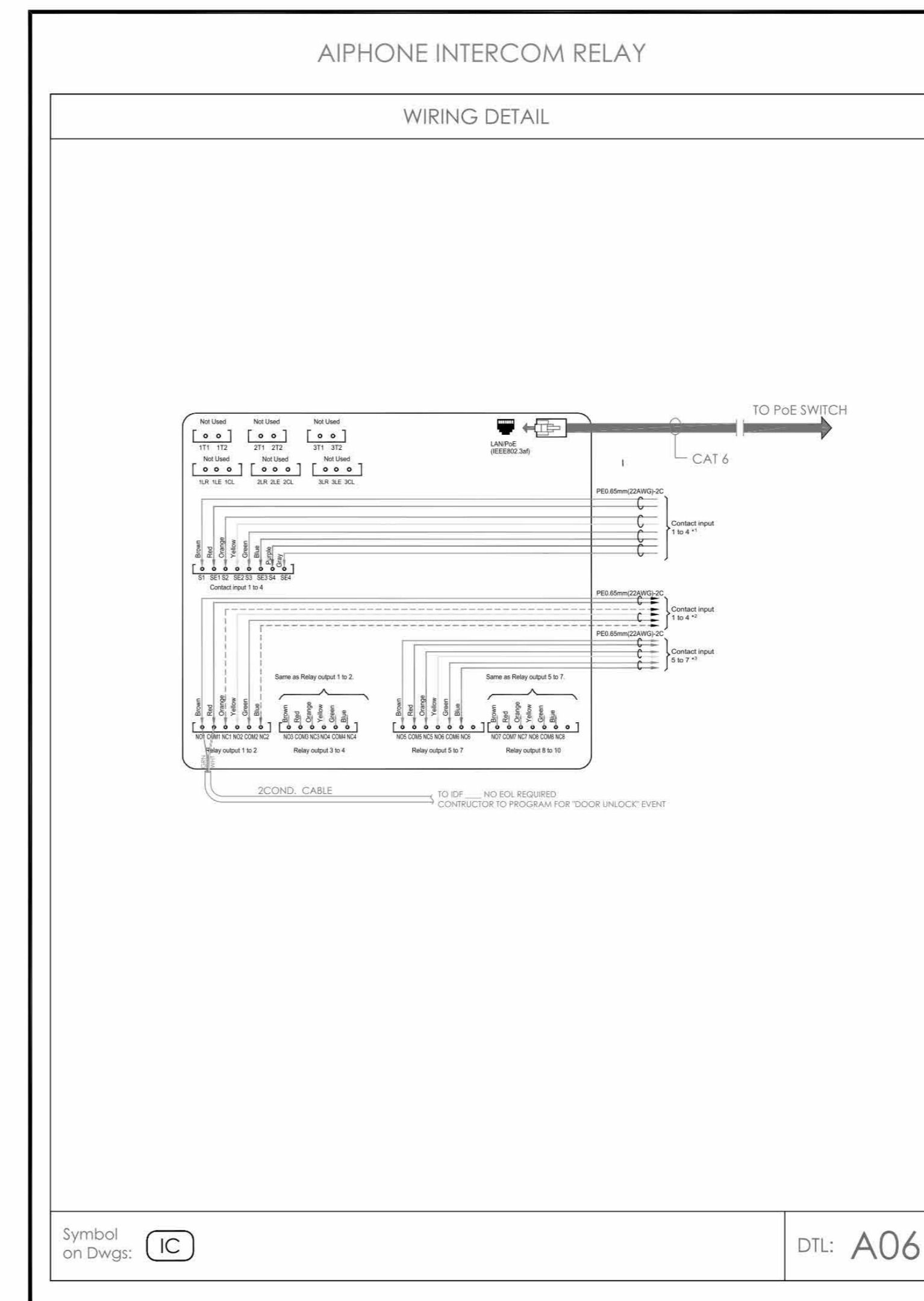
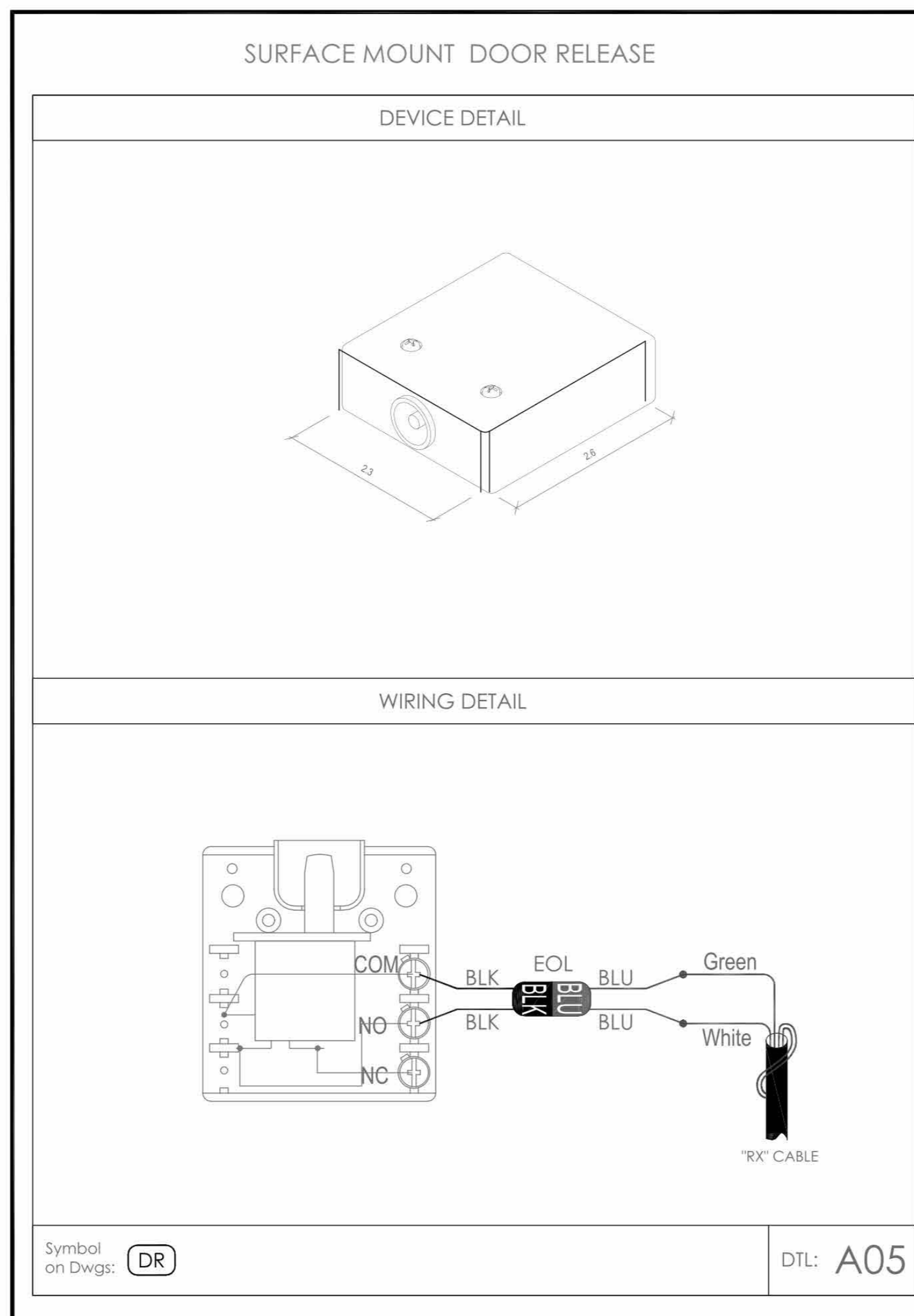
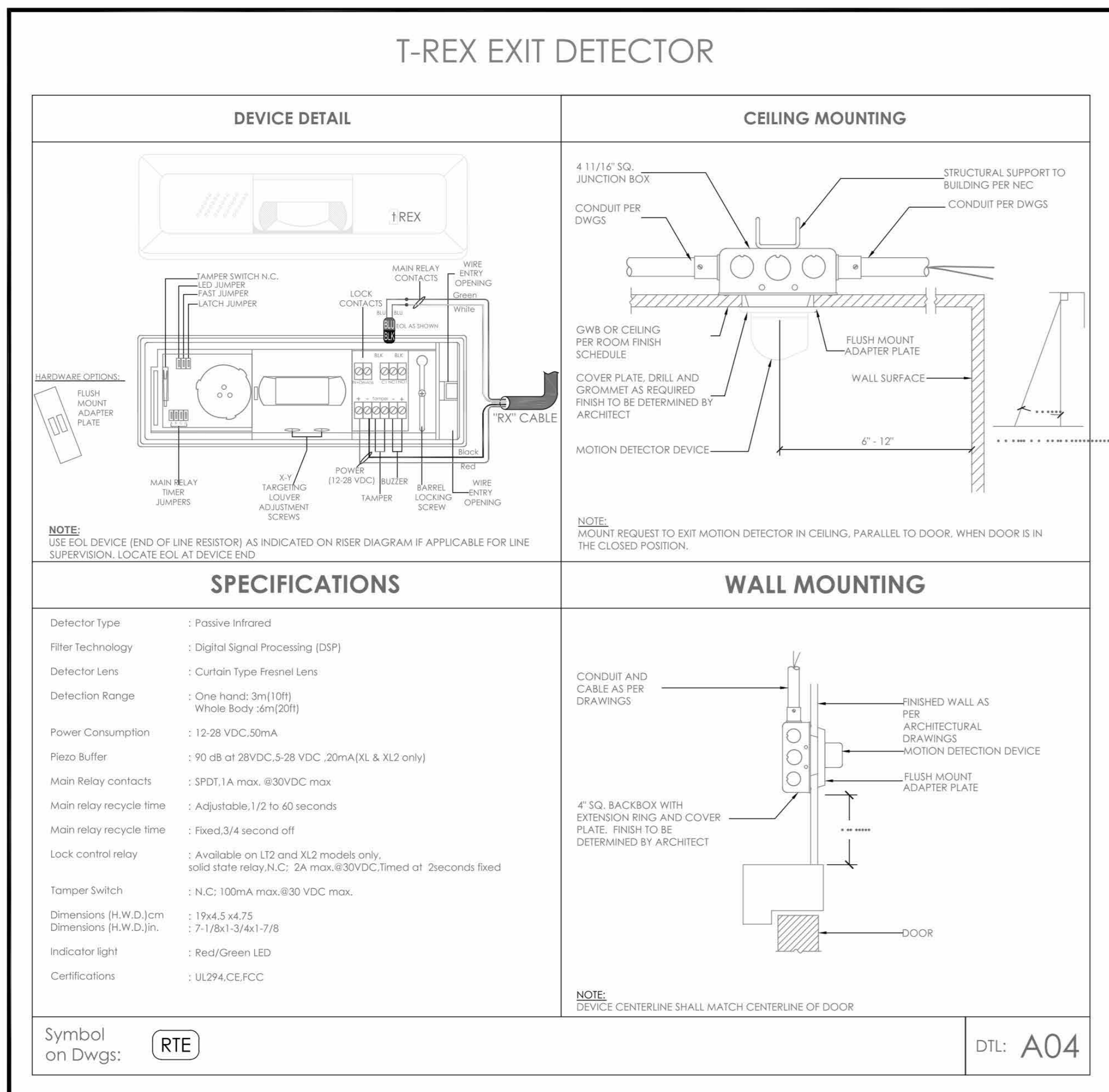
Sheet Title
BURGLAR & ACCESS CONTROL OVERALL SYSTEM INTERFACE ONE LINE DIAGRAM

Job No. 2020-1005 Date 06/05/24
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Sheet Number
SE701



- NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTE, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING AND RELATED DRAWING 27-28 SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING CABLE WIRE, CONTRACTOR TO VERIFY CABLE LENGTHS (SEE NOT TO EXCEED) BY WHEN BROUGHT TO CLOSEST CLOSURE.
 5. ALL DATA CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED REEBS AND NOTE ON THE "AS BUILT".
 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "E" SIZE HARD COPY (2 SET) AND DIGITAL FORMAT.
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HARRISON, NY 10528

TITLE:

SECURITY EQUIPMENT
DETAIL 2
ACCESS DEVICE TYPICALS

EM AO IT

DESIGNED BY: DRAWN BY: CHECKED BY:

WORK ORDER NO.: DATE: 12/08/2023

S.A. NO.: DRAWING NO.: SE-704

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HARRISON, NY 10528

TITLE:

SECURITY EQUIPMENT
DETAIL 2
ACCESS DEVICE TYPICALS

EM AO IT

DESIGNED BY: DRAWN BY: CHECKED BY:

WORK ORDER NO.: DATE: 12/08/2023

S.A. NO.: DRAWING NO.: SE-704

No. Date Issue

Sheet Title

SECURITY EQUIPMENT

DETAIL 2

ACCESS DEVICE TYPICALS

Job No. 2020-1005 Date 06/05/24

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Sheet Number

SE704

ACENES, LLC - IDMA INTELLIGENT DOOR MANAGEMENT ALARM

DEVICE DETAIL

ELECTRICAL BACKBOX

SPECIFICATIONS

Model: INTELLIGENT DOOR MANAGEMENT ALARM (IDMA)
 Input Voltage: Range of 12-24 VDC
 Mounting: 2-Gang, min 2 1/2" deep electrical box
 Terminal strips: 2 x 12 pin fixed terminal strips accept up to 18 AWG wires
Alarm sounds:
 Voltage rating: @95 dB or 105dB
 Pulsing tones indicate warning alarm
 Decibel(dB) level is programmable
Time Delays:
 Access delay: Shunts the alarm function for the duration of the delay.
 Warning delay: Sets the duration of the warning alarm.
 Alarm automatic reset delay: Sets the duration of an alarm if the automatic reset feature is enabled.
 Operational Functions: The IDMA display will show various device status via the LCD display.

WIRING DIAGRAM

WIRING SHOWN BELOW ARE FACTORY DEFAULTS FOR ACCESS CONTROL INTERFACE. FOR FURTHER INFORMATION AND TERMINATION SEE IDMA-SWH INTERFACE SAMPLE DRAWING

CAUTION: DO NOT MIX THE 5333-DC GREEN WIRES BETWEEN IN1 AND IN2

CONNECTIVITY:
 - VIA DRY CONTACTS
 - BLUETOOTH
 - ETHERNET
 - WI-FI
 - OSDP
 - AUDIO (optional)

Symbol on Dwgs: DTL: A06

LENEL - EOL VALUES				
STATE	UNPLUGGED OHMS	PLUGGED TO BOARD OHMS		VOLTS
SECURE	1,000	650		1.9V
ALARM	2,000	950		2.9V
CUT	INFINITY	1250		5V
SHORT	UP TO 50	UP TO 50		<1V

1. ALLOW FOR 10% TOLERANCE
 2. OTHER VALUES = TROUBLE

IDMA TERMINATION MATRIX				
CLOSET	BOX	PORT	CAD	LOCATION
IDF - 1	ENCLOSURE - 1	1	1-E1-01	DOORS 113G & 113H
		2	1-E1-02	Door 123B
		3	SPARE	
		4	SPARE	
		5	SPARE	
		6	SPARE	
		7	SPARE	
		8	SPARE	

MATRIX TABLE SHOWN FOR REFERENCE ONLY.
 INSTALLATION CONTRACTOR TO PROVIDE HIS OWN MATRIX.

IDMA TERMINATIONS IDMA DOORS 1-8

INTERNAL WIRING OF THIS CONTROL TERMINATION BOX WILL BE PERFORMED AND DELIVERED BY ITG. CONTRACTOR TO TERMINATE 8 CONDUCTOR [5465-EXT] CABLE AS PER SHOWN COLOR CODED TERMINALS

DM-T

NOTE: IDMA's 9-16 ARE TERMINATED IN IDMA TERMINATION BOX #2 (not shown) IN DEVICE POSITIONS 1-8. SEE SE-300 CLOSET DETAILS FOR MOUNTING OF BOXES 1&2. SEE IDMA/DMA TERMINATION MATRIX THIS PAGE

NOTE:
 CONTRACTOR TO BUILD IDMA TERMINATION PANEL AS SHOWN.
 WIRE SPlicing AND PARALLEL POWER DISTRIBUTION TO MULTIPLE DEVICES ARE NOT ALLOWED

- NOTES:
- DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 - THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE INBIE DRAWINGS SET AND RELATED DRAWINGS BY THE SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN-KEY SOLUTION TO OWNER.
 - CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 - PRIOR TO PULLING CAT 6 WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 - ALL CAT 6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 - CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED REE AND NOTE ON THE AS BUILT.
 - CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "E" AND "D" FORMATS (PDF AND DIGITAL FORMAT).
 - CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 - DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE:
 THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2
 Town / Village of Harrison
 270 Harrison Avenue
 Harrison, NY 10528



CONSTRUCTION DOCUMENTS

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DATE	COMMENTS
06/05/2024	ISSUED FOR BID

Professional Seal



ITG Larson, Inc.
 155 Lafayette Ave
 White Plains, NY 10603

HARRISON RECREATION CENTER-KDG
 270 HARRISON AVE
 HARRISON, NY 10528

EM	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE: 12/08/2023	
S.A. NO:	SCALE:	
	SE-705	

No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title: SECURITY EQUIPMENT
 DETAIL 3 IDMA
 DEVICE TYPICALS

Job No: 2020-1005 Date: 06/05/24
 Scale: AS NOTED Drawn / Checked: Author Checker

SE705

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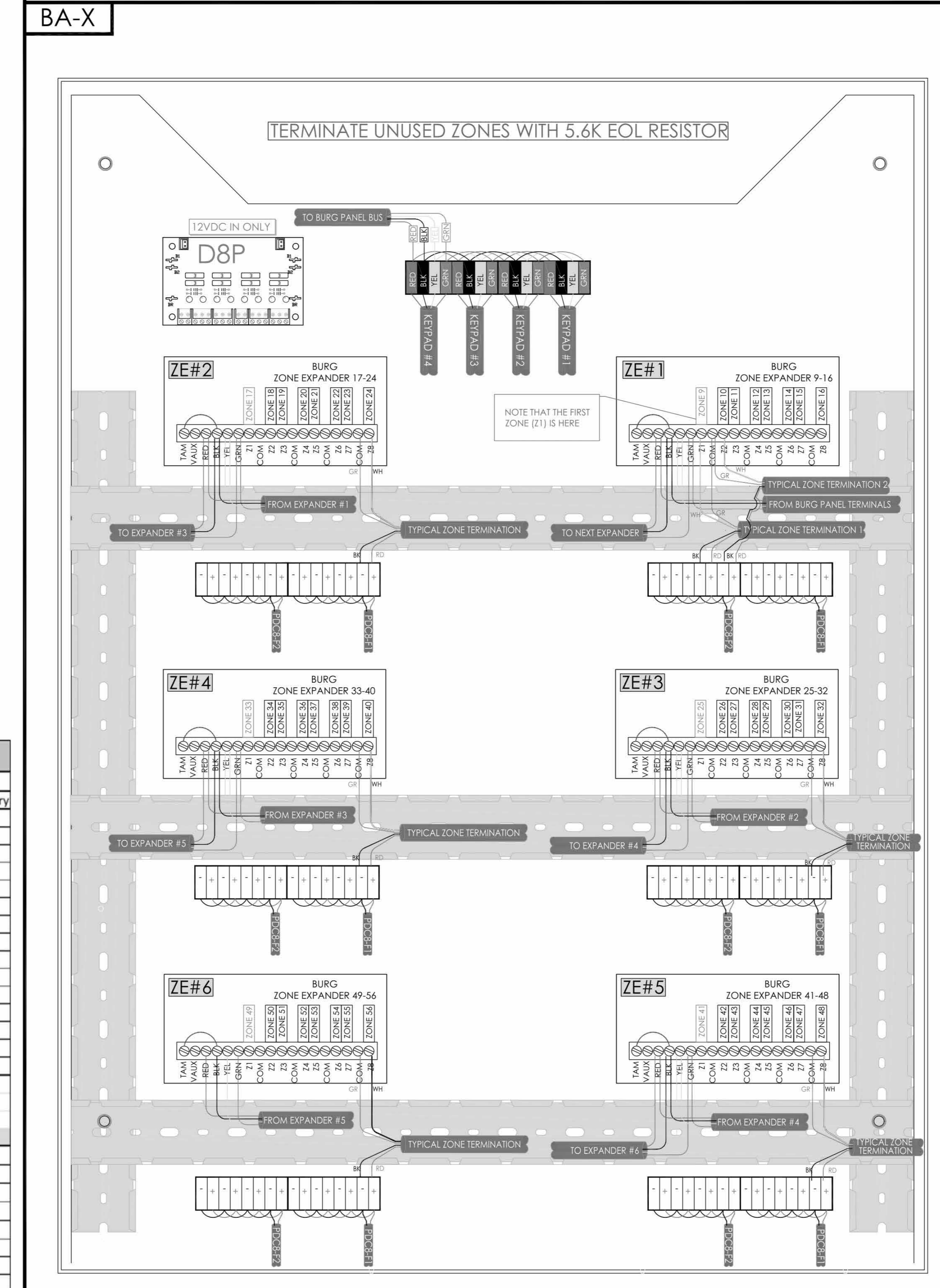
ALTERATIONS BY ANY PERSON IN ANY WAY OF ANY ITEM CONTAINED ON THIS DOCUMENT UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE 16, SECTION 80.3 (b) OF NEW YORK STATE LAW. COPYRIGHT KG+D ARCHITECTS, PC. ALL RIGHTS RESERVED.

Professional Seal

- NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE BURGE DRAWINGS SET AND RELATED DIVISIONS 27, 28 SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
 3. CONTRACTOR TO VERIFY CAMERA'S FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
 4. PRIOR TO PULLING OF A WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST POINT.
 5. ALL CAT 4 CABLES TO BE TESTED AND CERTIFIED AS PER NO. 800.500.0000.
 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED Riser AND NRE ON THE "AS BUILT" DRAWING.
 7. CONTRACTOR TO PROVIDE AND DELIVER A BOUND TO BUILT "AS BUILT" Riser AND NRE COPY (2 SETS) AND DIGITAL FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
 9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA TO OWNER.

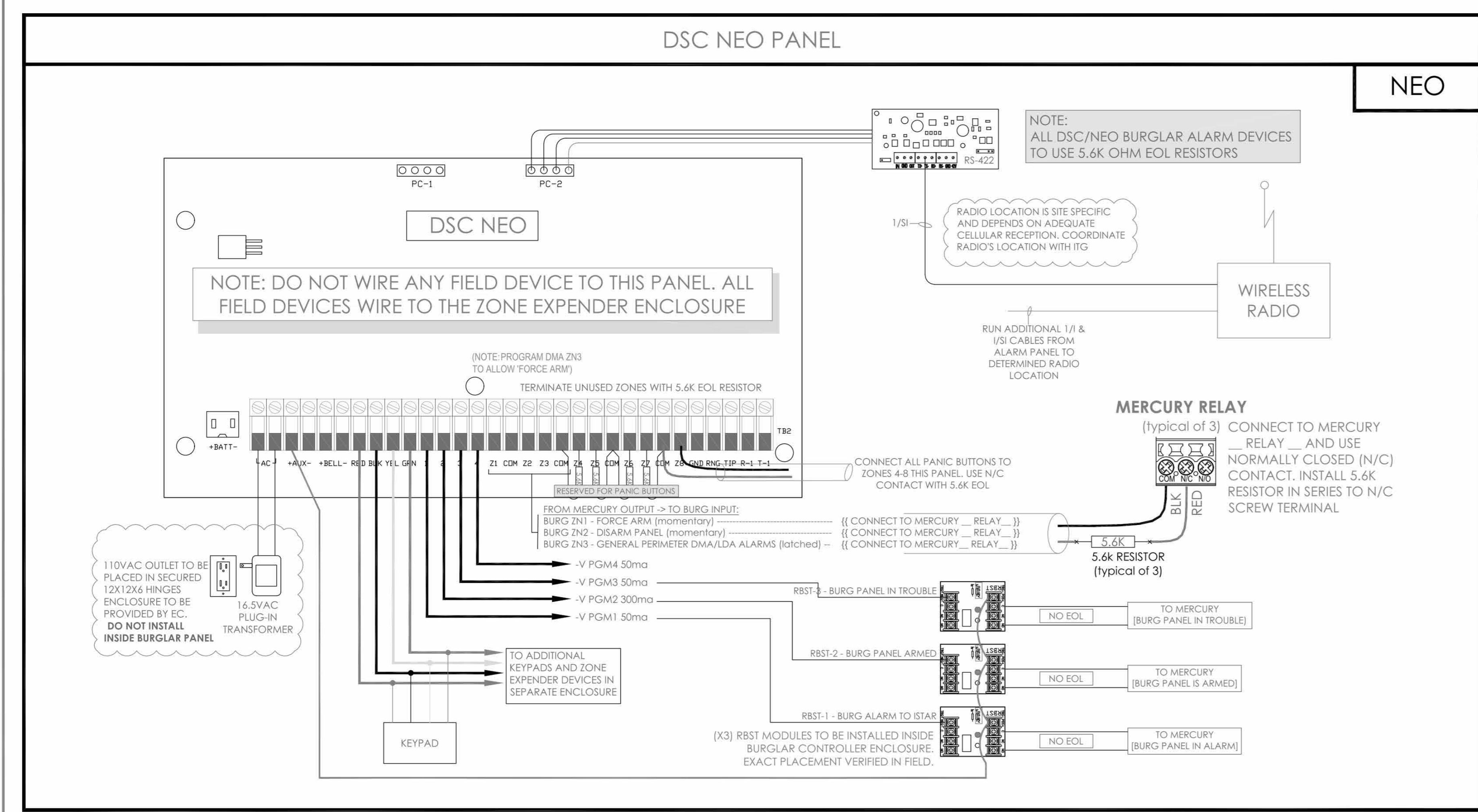
NOTE: THE BIDDING LOW VOLTAGE CONTRACTOR (LVCC) IS RESPONSIBLE TO PURCHASE, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN KEY SOLUTION.

BURGLAR ALARM ZONE EXPANDER MODULE CONFIGURATION & WIRING

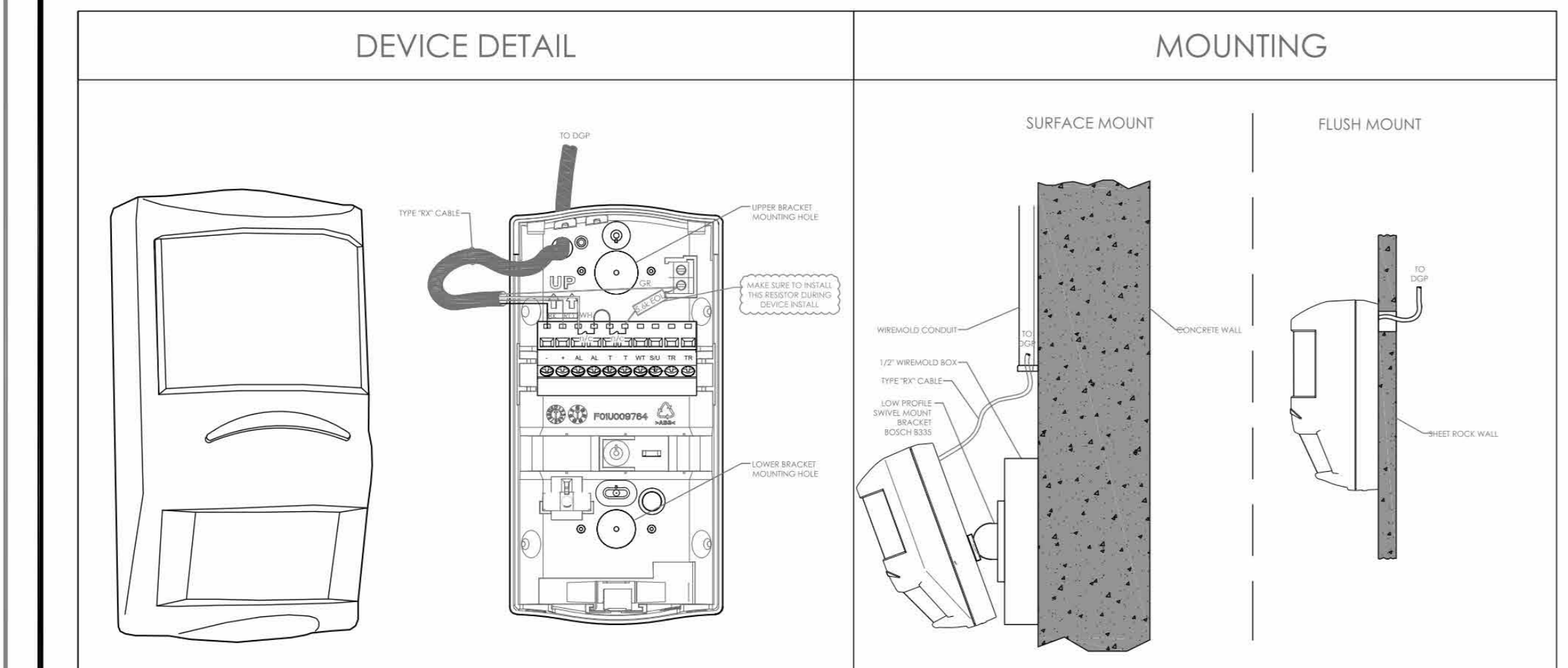


DEVICE TERMINATION MUST ADHERE ABOVE DEPICTION. OTHER THEN ADDING THE DEVICES NO SPLICING IS ALLOWED.

NOTE: CONTRACTOR TO BUILD BURGLAR ALARM TERMINATION PANEL USING THIS TEMPLATE. CONTRACTOR TO BUILD THE ABOVE ENCLOSURE AND WIRE AS SHOWN - WIRE SPLICING AND PARALLEL POWER DISTRIBUTION TO MULTIPLE DEVICES ARE NOT ALLOWED



BOSCH PROFESSIONAL SERIES P/N: ISC-PDL1-W18G



RANGE SETTINGS

3.0 Switch Settings

3.1 Switch 1 - Walk Test

Switch 1	Voltage on WT Terminal	Walk Test
ON	+12	ON (Success)
OFF	0	OFF (Unsuccessful)

3.2 Switch 2 - Alarm Memory Polarity

Switch 2	Voltage on S2 Terminal	Alarm Memory
ON	+12	ON (Success)
OFF	0	OFF (Unsuccessful)

3.3 Switch 3 - Short Range/ Long Range

Switch 3	Range	Distance
ON	Short	25 ft (8 m)
OFF	Long	66 ft (20 m)

3.4 Switch 4 - Antismask ON/ Antismask OFF

Switch 4	Antismask
ON	ON
OFF	OFF

4.0 LED Indicators

Color	Indication	Function
Blue	Steady ON	New alarm detected
Yellow	Steady ON	Microwave detection
Red	Steady ON	PIR detection
Blue	Flashing ON	Detector tampering (up or down)
Blue	Flashing ON	Alarm Memory
Blue	3 Flashes	Antismask Detected
Blue	4 Flashes	Self-Test Failure
Blue	5 Flashes	Low Input Power

Mounting

- The recommended mounting height is 2 m to 3 m (7 ft to 10 ft) with no adjustments required.
- Mount the motion detector level, both horizontally and vertically.

Mounting options:

- On a flat wall with the optional 8335-3 Swiveling Low-profile mount, or with the optional 8328 Gimbal-mount bracket
- In a corner (the junction of two perpendicular walls)
- On the ceiling with the optional 8338 Universal Ceiling-mount Bracket

Adjustments:

- Turn Walk Test SW1 on
- Field adjust range (25 or 67) via SW3
- Adjust Microwave range via rotary pot for optimum range
- Adjustable "self" detection by rotating red knob to RIGHT
- Turn Walk Test SW1 on

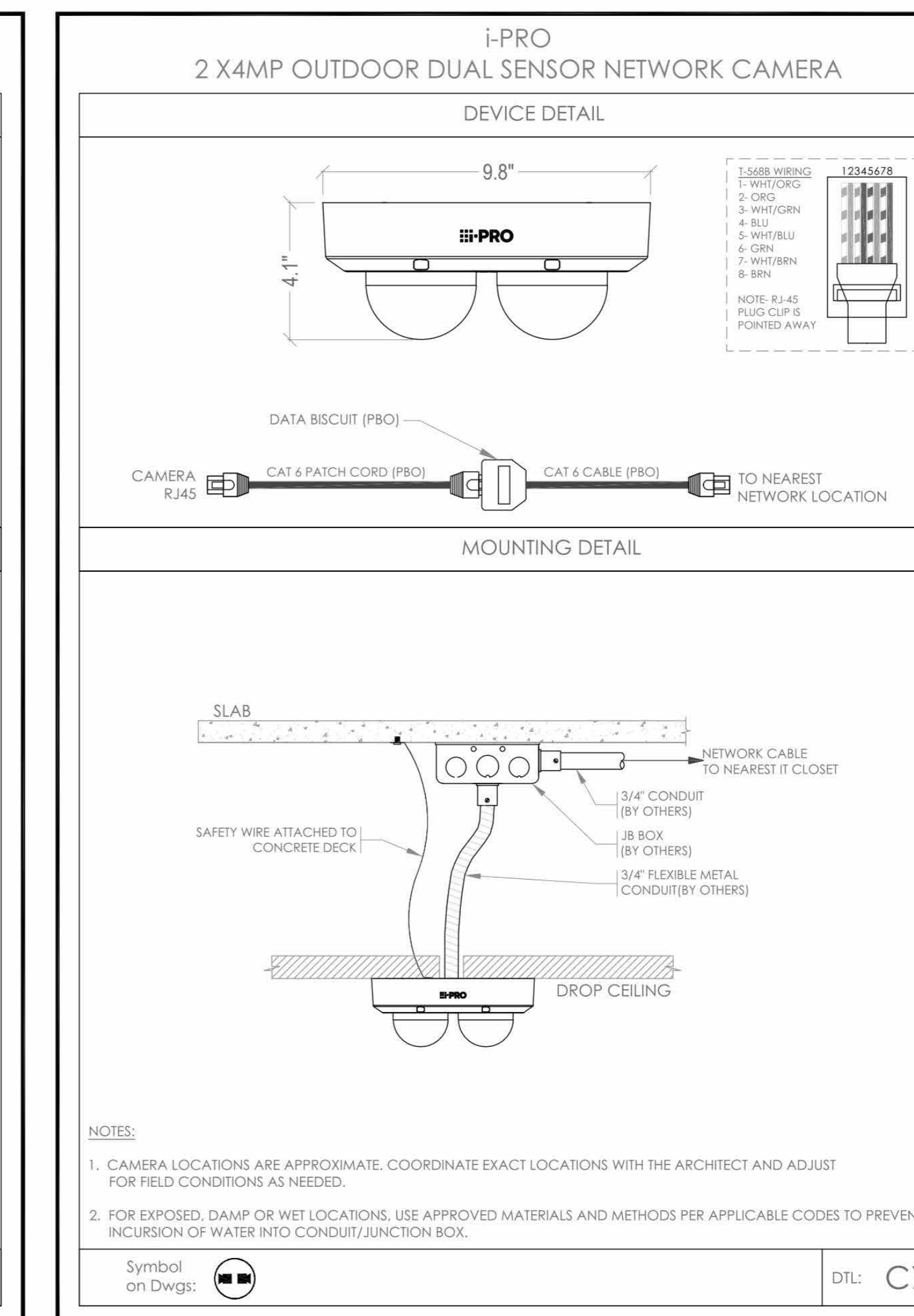
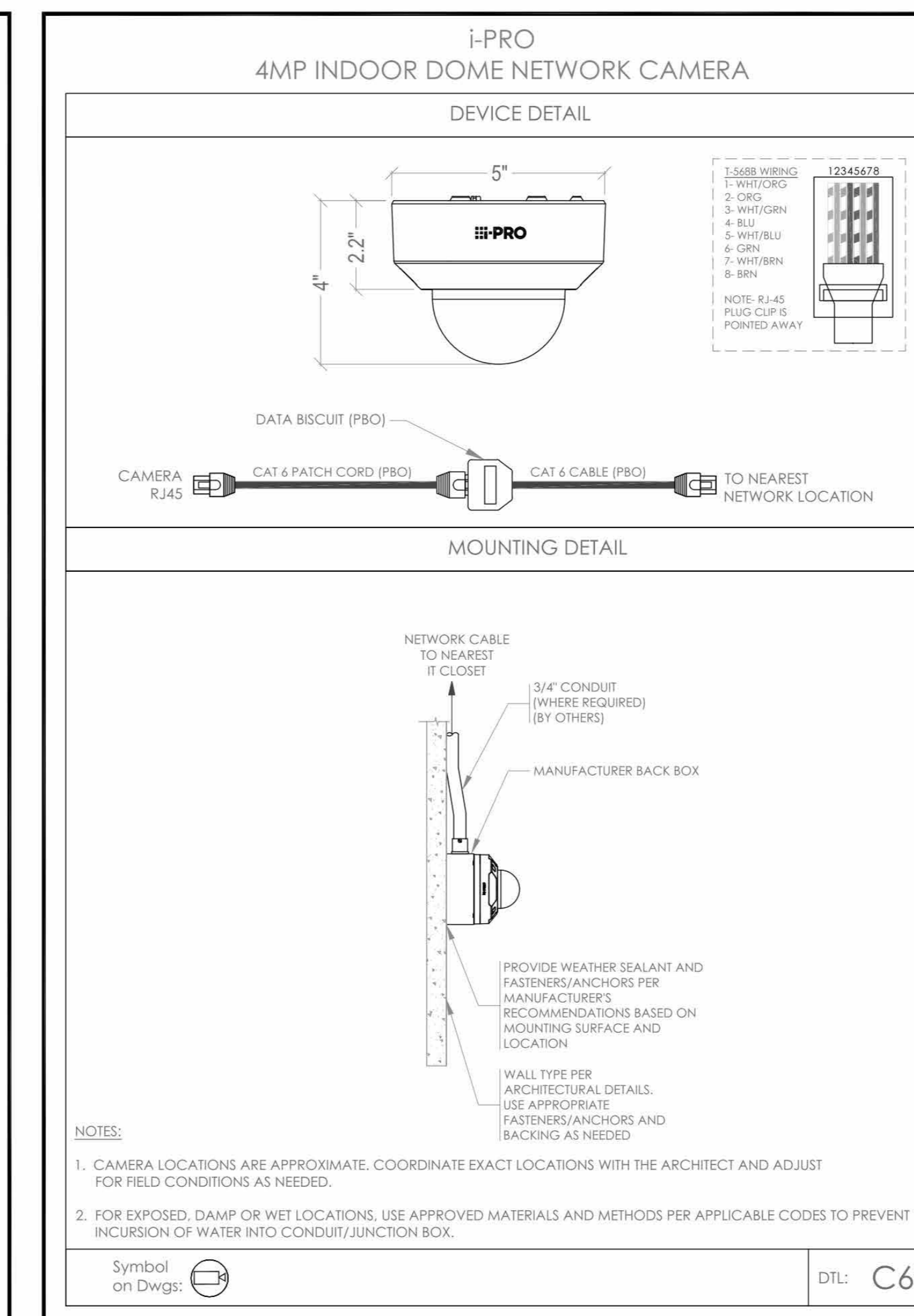
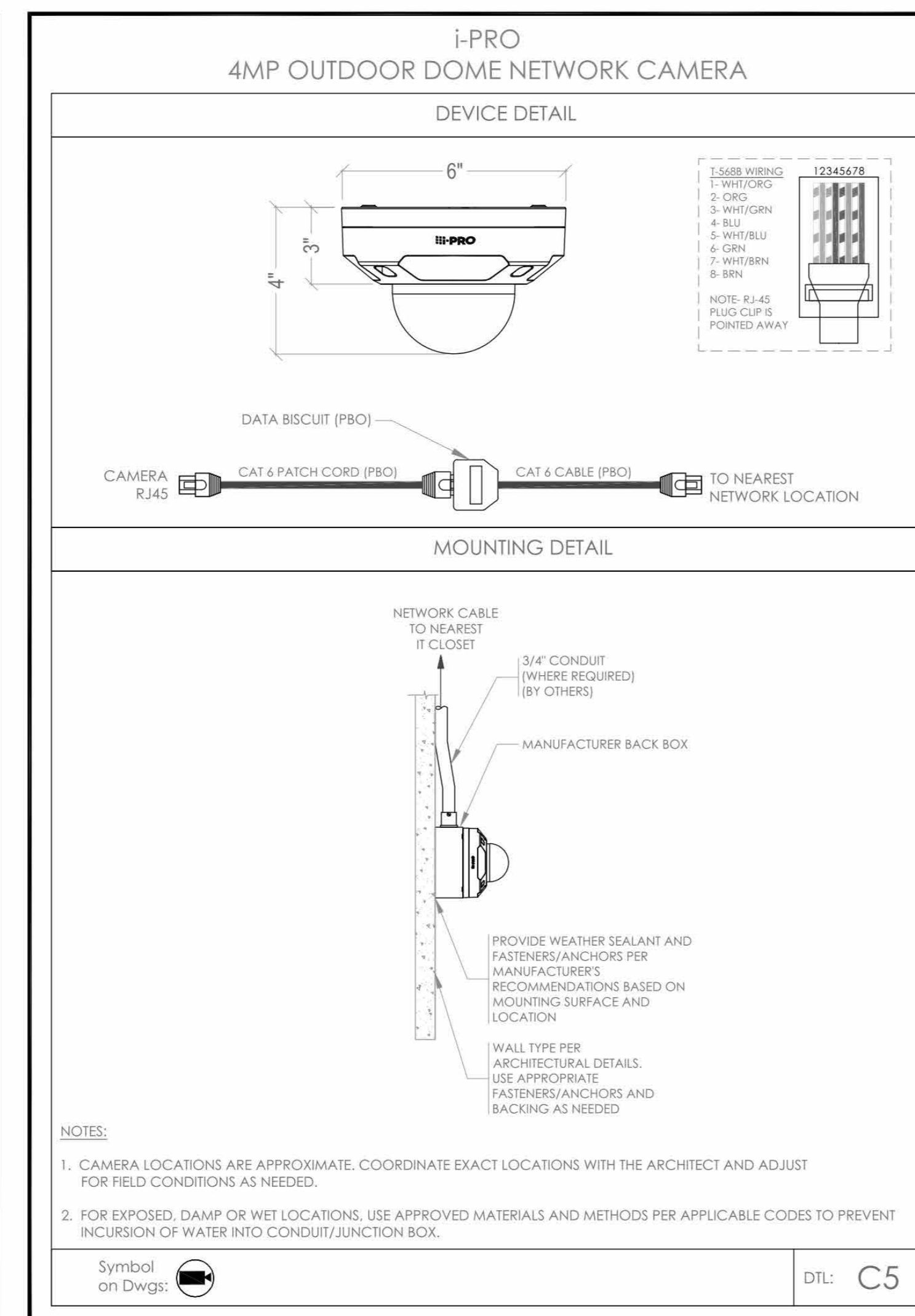
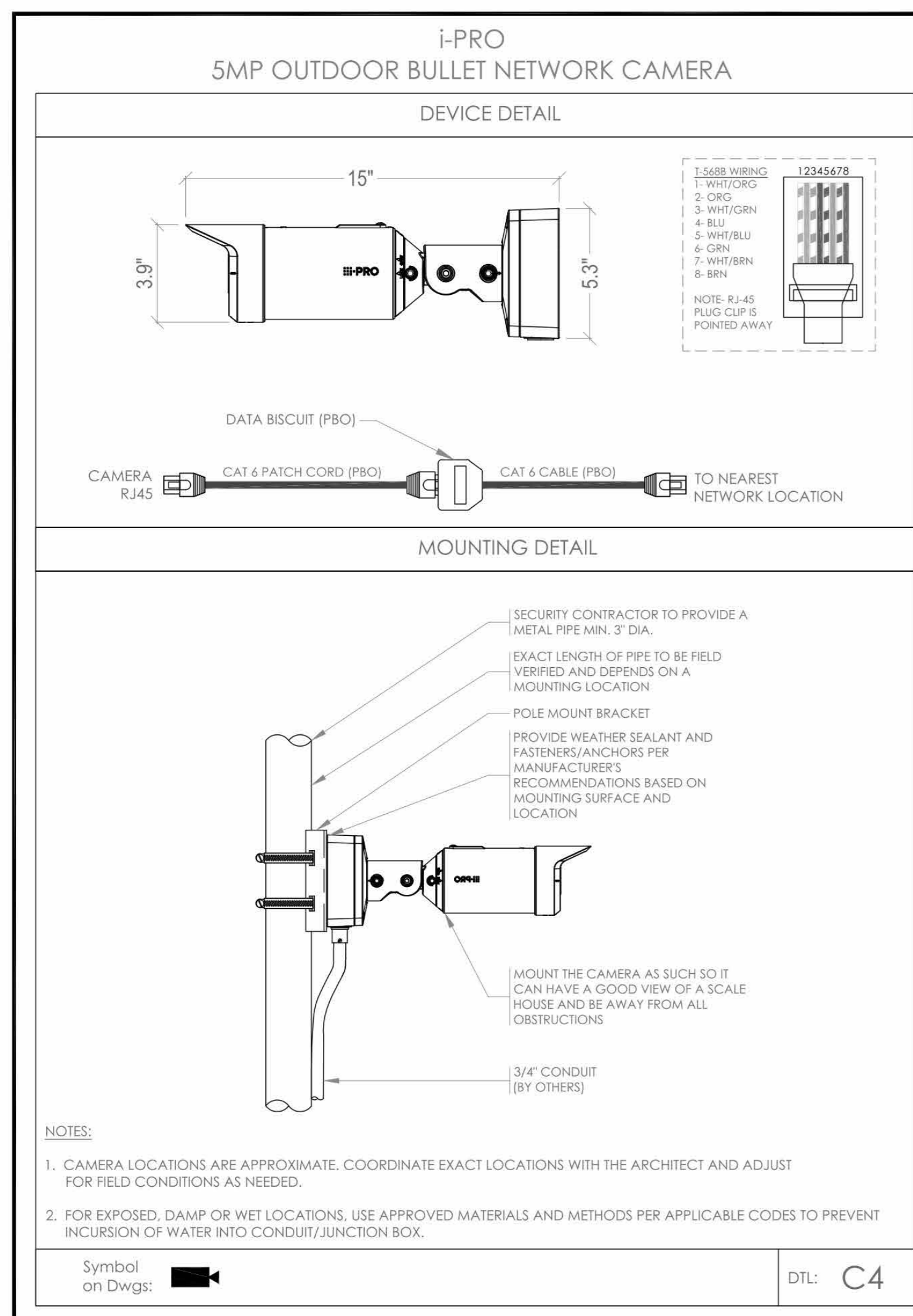
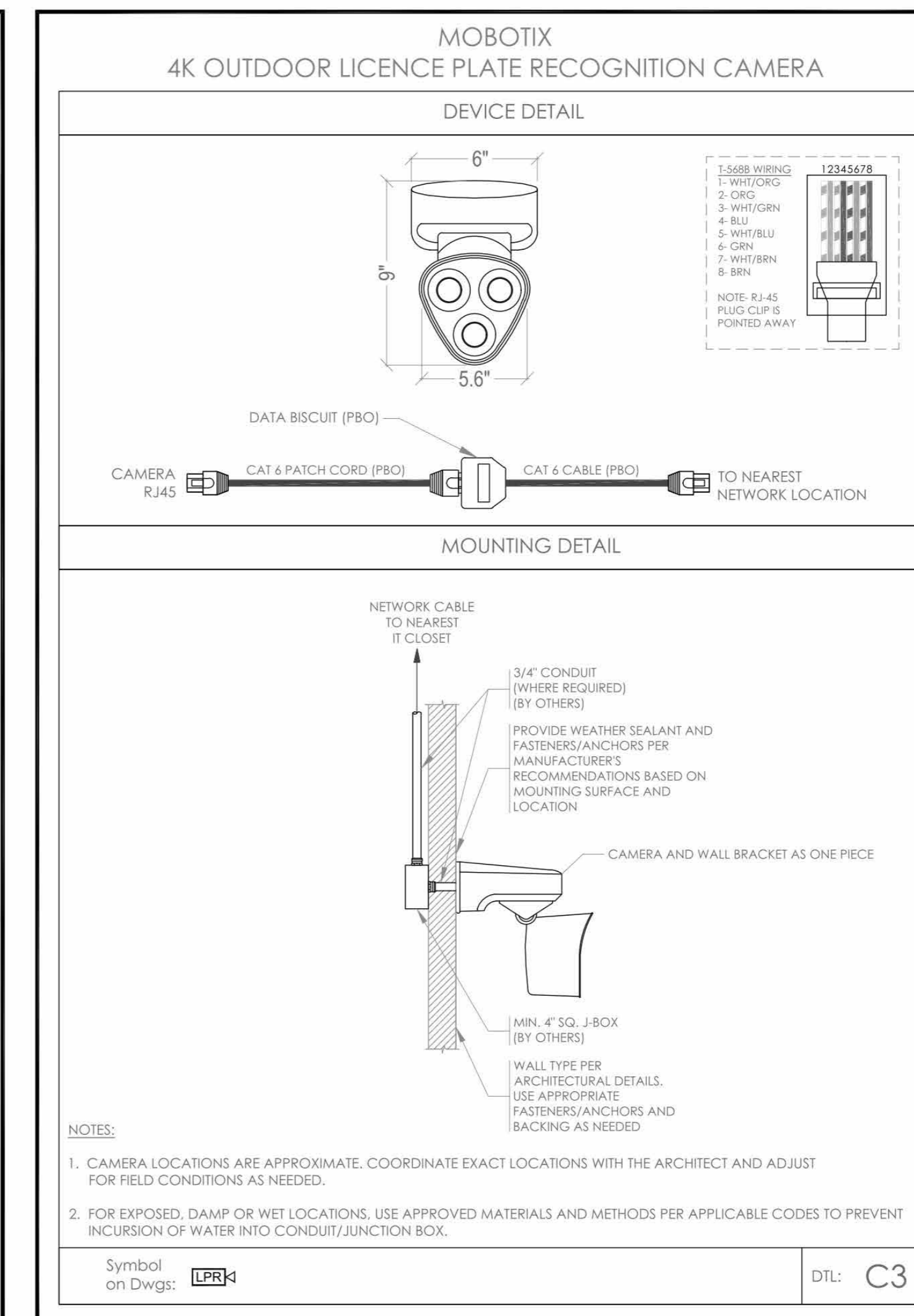
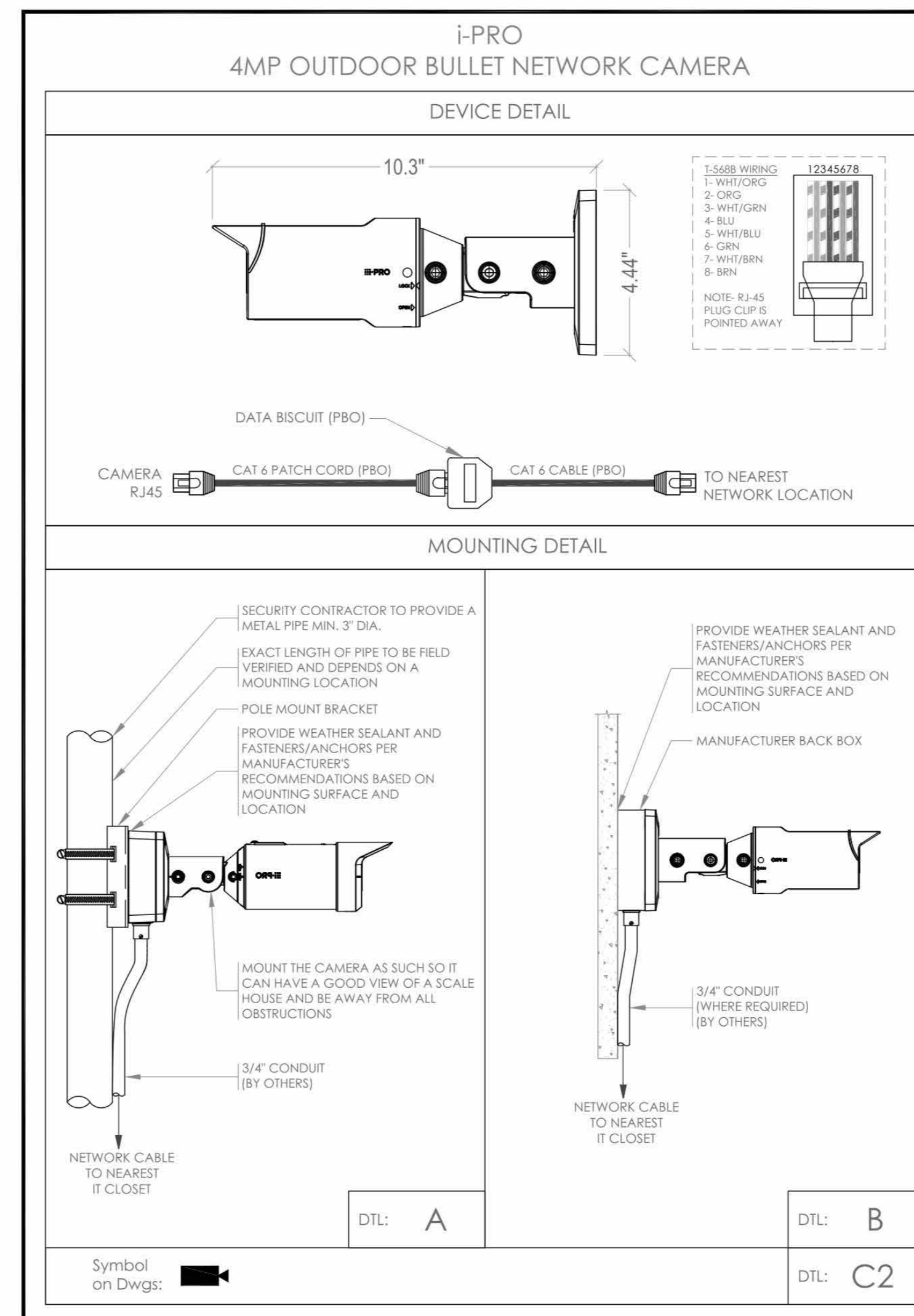
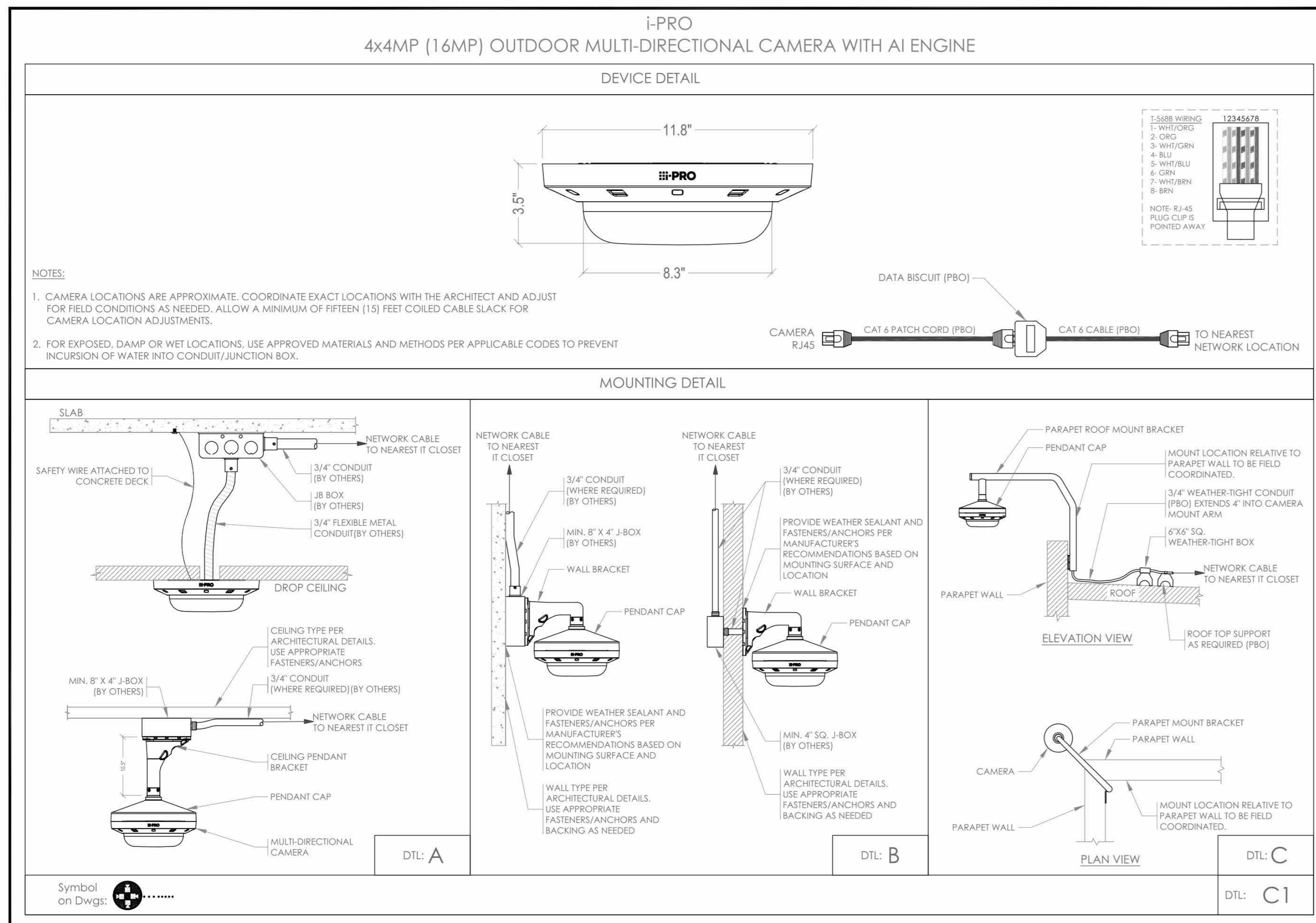
Symbol on Dwg: **MS**

DTL: **A08**

BURGLAR ALARM TERMINATION MATRIX

PORT	ZONE	DEVICE TAG	LOCATION
	1	NEED 5.6k	Force-Arm panel. Momentary contact from Mercury
	2	NEED 5.6k	Disarm panel. Momentary contact from Mercury
	3	NEED 5.6k	IDMA Door Alarm - Dry Contact from Mercury
	4	1-PA-01	OPEN OFFICE 103
	5	SPARE	
	6	SPARE	
	7	SPARE	
	8	SPARE	
	RBST RLV 1	NO EOL	Burg "ALARM" notification to Mercury
	RBST RLV 2	NO EOL	"ARMED" Status to Mercury (to reset IDMA shunt)
	RBST RLV 3	NO EOL	Burg "TROUBLE" notification to Mercury
	SIREN	SPARE	
	SIREN	SPARE	
	SIREN	SPARE	
	SIREN	SPARE	
	SIREN	SPARE	
	KPD PNL		
	KPD CAS		
	5G RADIO		
	ZE #1		
	21	9 LL-ZE1-01	STAIR A
	22	10 LL-ZE1-02	ELEC B03
	23	11 LL-ZE1-03	STAIR B
	24	12 LL-ZE1-04	STAIR A
	25	13 LL-ZE1-05	STOR B04
	26	14 LL-ZE1-06	STOR B04
	27	15 LL-ZE1-07	STOR B04
	28	16 LL-ZE1-08	DOOR B06B
	ZE #2		
	21	17 LL-ZE2-01	STAIR D
	22	18 LL-ZE2-02	STAIR D
	23	19 1-ZE2-03	CORR C101
	24	20 1-ZE2-04	GYMNASIUM 113
	25	21 1-ZE2-05	FITNESS 123
	26	22 1-ZE2-06	MECH 125
	27	23 1-ZE2-07	GYMNASIUM 113
	28	24 1-ZE2-08	REAR ENTRY CORRIDOR
	ZE #3		
	21	25 1-ZE3-01	GYMNASIUM 113
	22	26 1-ZE3-02	STAIR C
	23	27 1-ZE3-03	DOOR 100F
	24	28 1-ZE3-04	DOOR 100D
	25	29 1-ZE3-05	DOOR 100C
	26	30 1-ZE3-06	DOOR 100A
	27	31 1-ZE3-07	LOBBY 101
	28	32 1-ZE3-08	CORR 204
	ZE #4		
	21	33 2-ZE4-01	VIEWING 200
	22	34 2-ZE4-02	DOOR C201
	23	35 2-ZE4-03	VIEWING 200
	24	36 SPARE	
	25	37 SPARE	
	26	38 SPARE	
	27	39 SPARE	
	28	40 SPARE	

MATRIX TABLE SHOWN FOR REFERENCE ONLY. INSTALLATION CONTRACTOR TO PROVIDE HIS OWN MATRIX.



NOTES:
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3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
4. PRIOR TO PULLING CAT 6 WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WITH MOUNT TO CLOSEST CLOSET.
5. ALL CAT 6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED REE AND NOTE ON THE REE.
7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND REE WITH REE IN BOTH 'E' USE HARD COPY (E-SET) AND DIGITAL FORMAT.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA.

NOTE: THE WIRING LOW VOLTAGE CONTRACTOR (LVLC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN KEY SOLUTION.

ISSUED FOR:

DATE	COMMENTS
06/05/2024	ISSUED FOR BID



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HARRISON RECREATION CENTER-KDG
270 HARRISON AVE
HARRISON, NY 10528

DESIGNED BY	DRAWN BY	CHECKED BY
EM	AO	IT
WORK ORDER NO.	DATE	12/08/2023
S.A. NO.	DRAWING NO.	SE-706

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No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title: **SECURITY EQUIPMENT DETAIL - 5 CCTV TYPICALS**

Job No. 2020-1005 Date 06/05/24
Scale AS NOTED Drawn / Checked Author Checker
Sheet Number **SE706**

NOTES - GENERAL

1. INSTALL WOOD OR TREX INSULATING BASE UNDER AUDIO/VIDEO/TELEVISION AND NETWORK EQUIPMENT RACKS, EXCEPT FOR THOSE IN MILLWORK SUCH AS CONF 103B. REFER TO SPECIFICATIONS.
2. SIZE CONDUIT AS SHOWN. WHERE SIZE IS NOT INDICATED, CONDUIT SHALL BE 3/4" EMT. ALL INTERIOR CONDUIT SHALL BE EMT UNLESS OTHERWISE NOTED.
3. ALL HARDWARE IN THE A/V/T SYSTEM EMPLOYED FOR ANY PURPOSE SHALL BE STAINLESS STEEL.
4. VERIFY WITH AND OBTAIN THE APPROVAL OF THE CONSULTANT FOR ALL CONDUIT ROUTING.
5. JUNCTION BOX MOUNTING HEIGHTS ARE TO THE BOTTOM OF THE BOX, UNLESS OTHERWISE NOTED.

NOTES - JUNCTION BOXES

1. INSTALL BOX ON FRAME OF UNISTRUT OR KINDORF CONSTRUCTION CHANNEL SUPPORTED TO STRUCTURE, FASTENED TO SIDES AND BACK OF BOX ONLY. LEAVE TOP AND BOTTOM OF BOX CLEAR FOR BUILDING CONDUIT ENTRY AND WATER-TIGHT FLEXIBLE CONDUIT TO RACKS, RESPECTIVELY. IN SOME CASES, SUCH AS AC POWER BOXES, CONDUITS COME INTO THE SIDE OF THE BOX AS WELL.
2. INSTALL BOX ON FRAME OF UNISTRUT OR KINDORF CONSTRUCTION CHANNEL.
3. CUSTOM BOX WITH THREE FULLY ENCLOSED SECTIONS.
4. SIZE ALL AC POWER CONDUIT SHOWN ON THIS DRAWING ACCORDING TO THE NEC AND THE ELECTRICAL SPECIFICATIONS, WITH SPARE CAPACITY IN ADDITION. PROPOSE SIZES FOR REVIEW ON THE SUBMITTAL DRAWINGS.
5. VERIFY WITH ARCHITECT.
6. VERIFY WITH CONSULTANT.

JUNCTION BOX SCHEDULE GENERAL FLOOR PLANS

BOX	WIDTH, IN.	HEIGHT, IN.	DEPTH, IN.	(BOT AFF) MTG HGT	MTG STYLE	MFR	MODEL	NOTES
JBA	2 GANG	3.75"	3.5"	38"	VERIFY	FLUSH	RACO	696
JBV	4 GANG	3.75"	3.5"	44"	VERIFY	FLUSH	RACO	698
JBM5	6 GANG	3.75"	3.5"	14" OR 16"	VERIFY	FLUSH	RACO	965
JB	2 GANG	3.75"	3.5"	VERIFY	VERIFY	FLUSH	RACO	696
JBDA-113-1	FLOOR	-	-	-	-	FLUSH	RACO	6224



02 FLOOR PLAN
LEVEL 02
AV101.00 3/32" = 1'-0"

01 FLOOR PLAN
LEVEL 01
AV101.00 3/32" = 1'-0"

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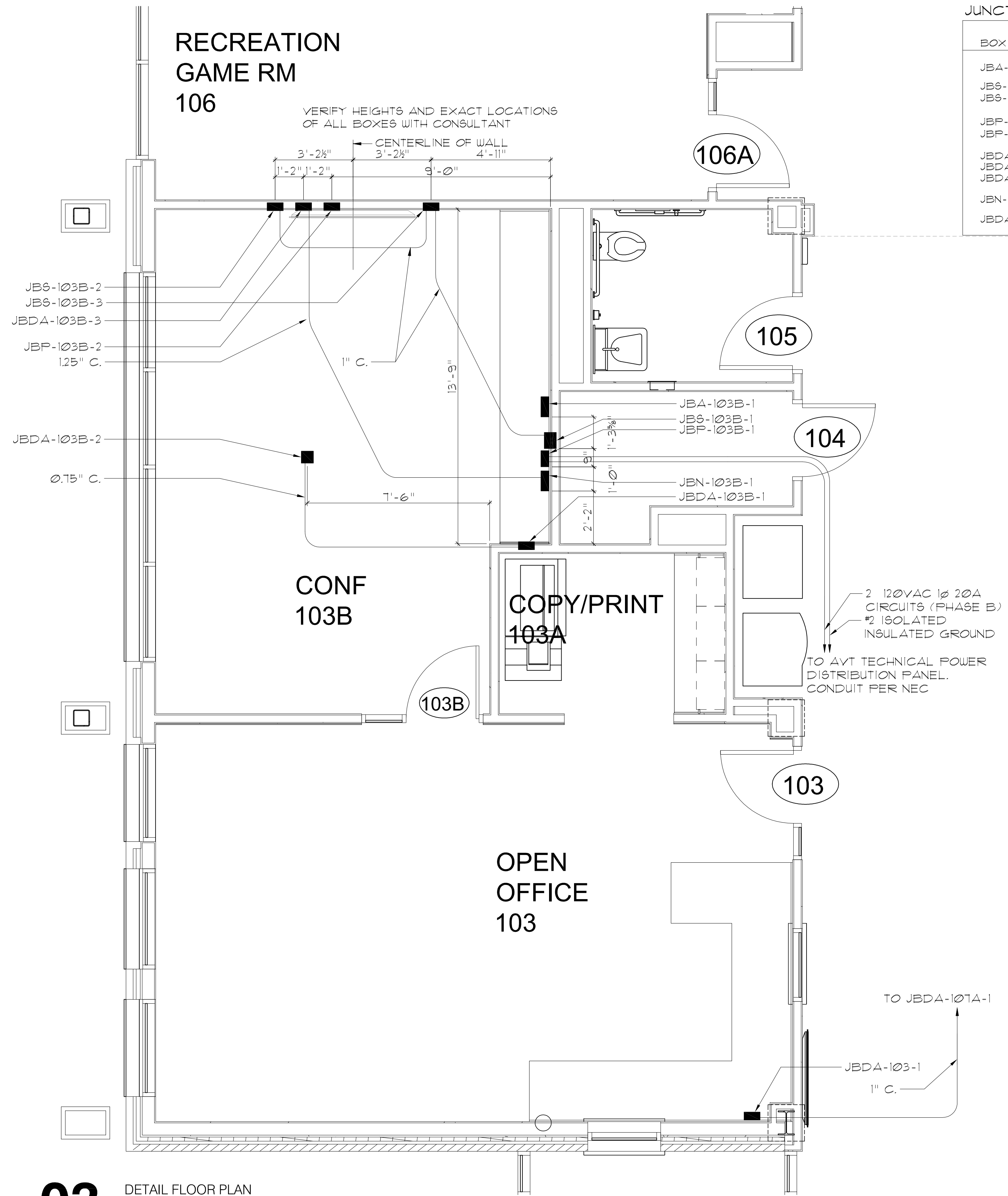
Professional Seal

2	06/05/2024	Issued for Bid
1	02/14/2024	Progress
No.	Date	Issue

Sheet Title
**AVV System
Conduit System
Floor Plans**

Job No.	2020-1005	Date	02/06/24
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number			

RECREATION GAME RM 106



JUNCTION BOX SCHEDULE - CONFERENCE ROOM

BOX	WIDTH, IN.	HEIGHT, IN.	DEPTH, IN.	MTG HGT	MTG STYLE	MFR	MODEL	NOTES
JBA-103B-1	10"	10"	4"	14"	SURFACE	HOFFMAN	A-1010SC	
JBS-103B-1	8"	10"	6"	14"	SEMI-RECESSED FLUSH	HOFFMAN RACO	A-10086SC 696	
JBS-103B-2, 3	2 GANG	-	-	-	-	-	-	
JBP-103B-1	8"	10"	4"	10"	SEMI-RECESSED FLUSH	HOFFMAN RACO	A-10086SC 696	VERIFY LOCATION
JBP-103B-2	2 GANG	-	-	-	-	-	-	
JBDA-103B-1	8"	10"	6"	14"	SEMI-RECESSED FLUSH	HOFFMAN RACO	A-10086SC 696	
JBDA-103B-2	2 GANG	-	-	-	ABOVE CLG	-	-	
JBDA-103B-3	2 GANG	-	-	-	-	-	-	
JBN-103B-1	10"	10"	4"	14"	SURFACE	HOFFMAN	A-1010SC	
JBDA-103-1	3 GANG	-	3.75"	14"	FLUSH	RACO	69T	

JUNCTION BOX SCHEDULE AV205A

BOX	WIDTH, IN.	HEIGHT, IN.	DEPTH, IN.	(BOT AFF) MTG HGT	MTG STYLE	MFR	MODEL	NOTES
JBP-205A-1	10"	10"	6"	14"	SURFACE	HOFFMAN	A-1010SC	
JBA-205A-1	12"	16"	6"	11-8"	FRAME	HOFFMAN	C-SD16166	NOTE 1. DOOR FACES NORTH
JBDA-205A-1	12"	16"	6"	11-8"	FRAME	HOFFMAN	C-SD16126	NOTE 1. DOOR FACES NORTH
JBN-205A-1	12"	16"	6"	11-8"	FRAME	HOFFMAN	C-SD16166	NOTE 1. DOOR FACES NORTH
JBS-205A-1	16"	16"	6"	11-8"	FRAME	HOFFMAN	C-SD16166	NOTE 1. DOOR FACES NORTH

CONF 103B

COPY/PRINT 103A

OPEN OFFICE 103

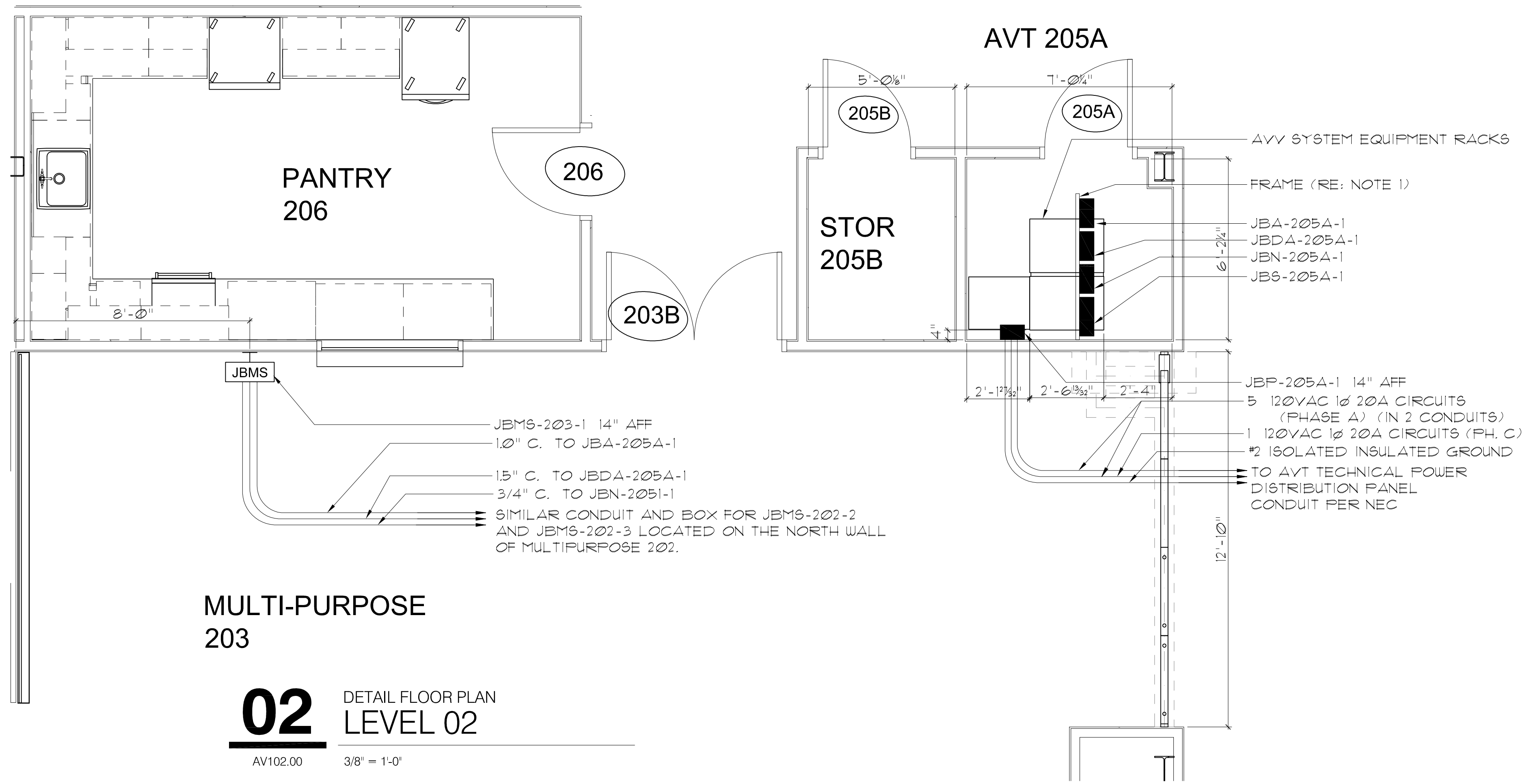
PANTRY 206

STOR 205B

MULTI-PURPOSE 203

AVT 205A

02 DETAIL FLOOR PLAN LEVEL 02



03 DETAIL FLOOR PLAN LEVEL 01

NOTES - GENERAL

- INSTALL WOOD OR TREX INSULATING BASE UNDER AUDIO/VIDEO/TELEVISION AND NETWORK EQUIPMENT RACKS, EXCEPT FOR THOSE IN MILLWORK SUCH AS CONF 103B. REFER TO SPECIFICATIONS.
- IF ANY WALL MOUNTED BACKBOARDS ARE SHOWN, FURNISH BIRCH VENEER HARDWOOD PLYWOOD, FIRE RATED, PRIMED AND PAINTED TWO COATS FLAT GREY ENAMEL PAINT. INSTALL USING STAINLESS STEEL HARDWARE.
- ALL HARDWARE IN THE AV/T SYSTEM EMPLOYED FOR ANY PURPOSE SHALL BE STAINLESS STEEL.
- VERIFY WITH AND OBTAIN THE APPROVAL OF THE CONSULTANT FOR ALL CONDUIT ROUTING.
- JUNCTION BOX MOUNTING HEIGHTS ARE TO THE BOTTOM OF THE BOX, UNLESS OTHERWISE NOTED.

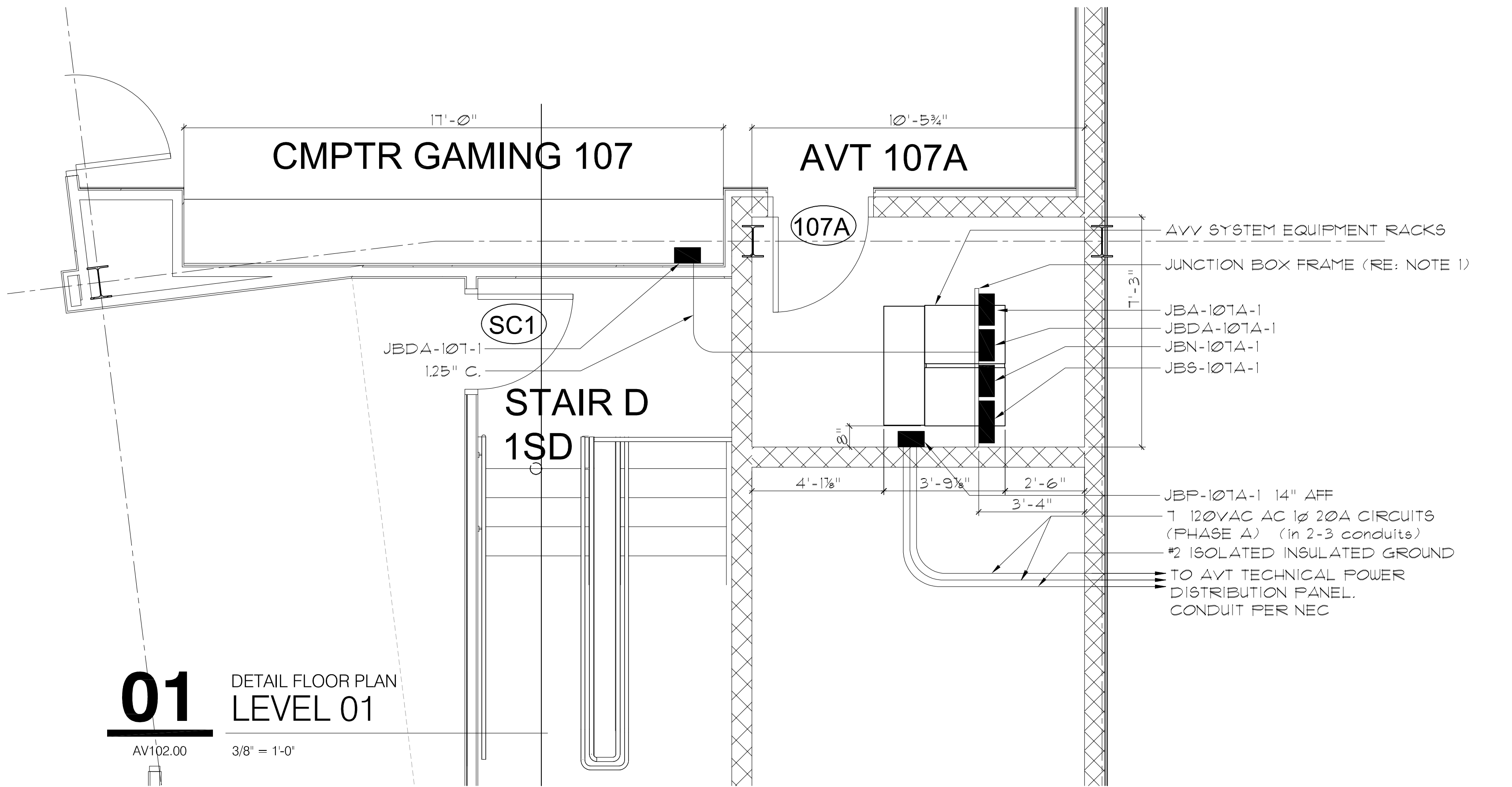
NOTES - JUNCTION BOXES

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- INSTALL BOX ON FRAME OF UNISTRUT OR KINDORF CONSTRUCTION CHANNEL.
- CUSTOM BOX WITH THREE FULLY ENCLOSED SECTIONS.
- SIZE ALL AC POWER CONDUIT SHOWN ON THIS DRAWING ACCORDING TO THE NEC AND THE ELECTRICAL SPECIFICATIONS, WITH SPARE CAPACITY IN ADDITION. PROPOSE SIZES FOR REVIEW ON THE SUBMITTAL DRAWINGS.
- VERIFY WITH ARCHITECT.
- VERIFY WITH CONSULTANT.
- SEE AVV 104 FOR LEGENDS AND NOTES PERTAINING TO TELEVISION DISTRIBUTION SYSTEM

JUNCTION BOX SCHEDULE AV107A

BOX	WIDTH, IN.	HEIGHT, IN.	DEPTH, IN.	(BOT AFF) MTG HGT	MTG STYLE	MFR	MODEL	NOTES
JBP-107A-1	10"	10"	6"	14"	SURFACE	HOFFMAN	A-1010SC	
JBA-107A-1	12"	16"	6"	11-8"	FRAME	HOFFMAN	C-SD16166	NOTE 1. DOOR FACES NORTH
JBDA-107A-1	12"	16"	6"	11-8"	FRAME	HOFFMAN	C-SD16126	NOTE 1. DOOR FACES NORTH
JBN-107A-1	12"	16"	6"	11-8"	FRAME	HOFFMAN	C-SD16166	NOTE 1. DOOR FACES NORTH
JBS-107A-1	16"	16"	6"	11-8"	FRAME	HOFFMAN	C-SD16166	NOTE 1. DOOR FACES NORTH
JBDA-107-1	16"	10"	6"	14"	SURFACE IN CABINET	HOFFMAN	C-SD16106	NOTE 1. DOOR FACES WEST

01 DETAIL FLOOR PLAN LEVEL 01



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Professional Seal

No.	Date	Progress	Issue
2	08/05/2024	Issued for Bid	
1	02/14/2024	Progress	

AVT System Conduit System Plan Details

Job No.	Date
2020-1005	02/06/24

Scale	Drawn / Checked	Author / Checker
AS NOTED		

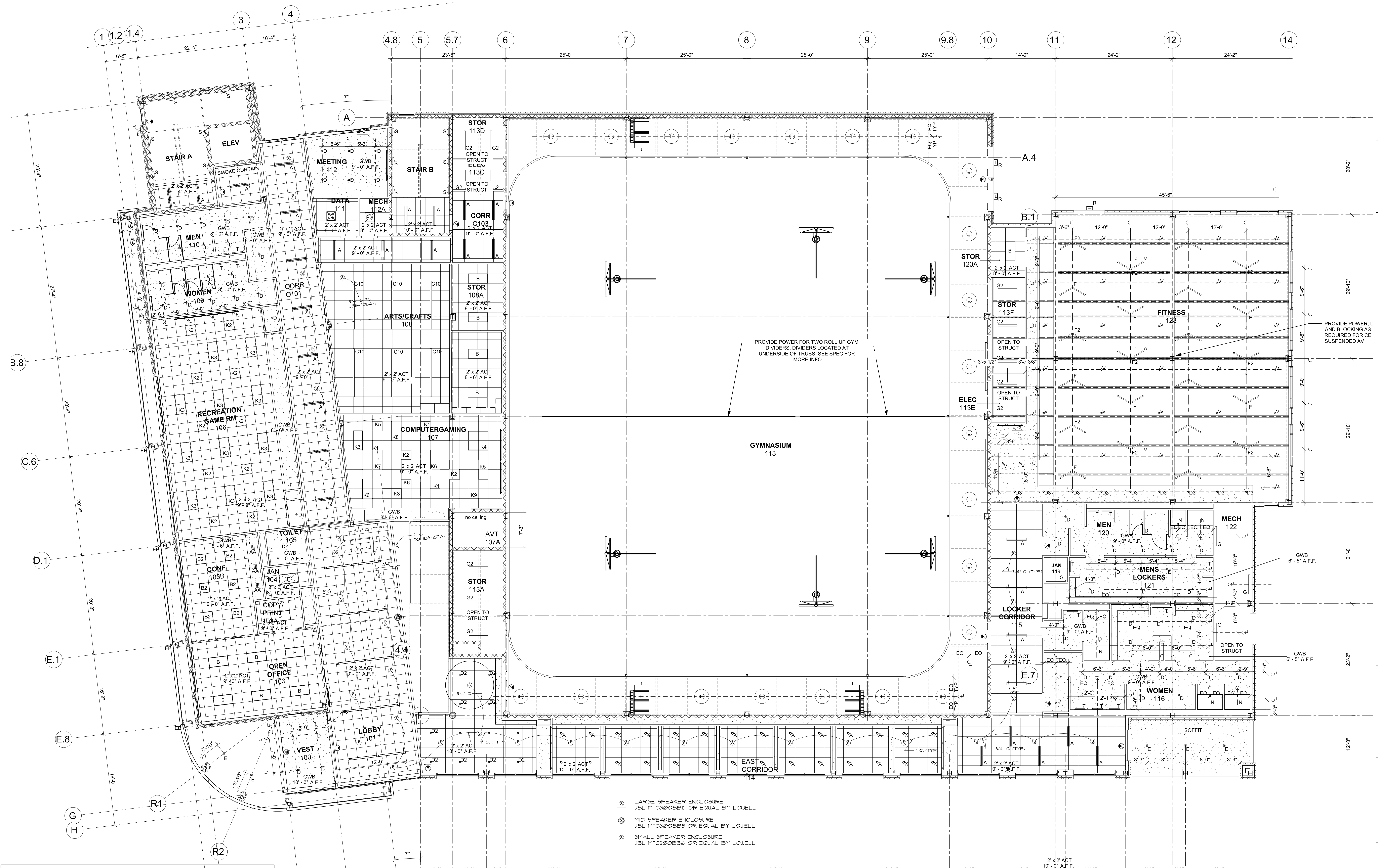
AVV102

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.686.5900
KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS



NOTES - GENERAL

1. SIZE CONDUIT AS SHOWN WHERE SIZE IS NOT INDICATED CONDUIT SHALL BE 3/4". ALL INTERIOR CONDUIT WHAT'LL BE EXT UNLESS OTHERWISE NOTED.
2. IN SUSPENDED CEILING, SPEAKER LOCATIONS ARE DETERMINED IN RELATION TO THE CEILING TILE GRID AS DESIGNED BY THE ARCHITECT. IF ANY GRIDS ARE PROPOSED TO BE INSTALLED BY THE CONTRACTOR TO DIFFERENT DIMENSIONS AND/OR LOCATIONS, CEILING SPEAKER LOCATIONS MUST BE PROPOSED ON DRAWINGS AND APPROVED BY THE CONSULTANT.
3. ALL HARDWARE IN THE AV/T SYSTEM EMPLOYED FOR ANY PURPOSE SHALL BE STAINLESS STEEL.
4. VERIFY WITH AND OBTAIN THE APPROVAL OF THE CONSULTANT FOR ALL CONDUIT ROUTING.
5. FURNISH AND INSTALL ALL SPEAKER ENCLOSURE ACCESSORIES AND ASSOCIATED PARTS SUCH AS PENDANTS, BRACKETS, ETC. NEEDED FOR A COMPLETE, SECURE, AND SAFE INSTALLATION.

- Ⓢ LARGE SPEAKER ENCLOSURE
JBL MTC300BB2 OR EQUAL BY LOWELL
- Ⓢ MID SPEAKER ENCLOSURE
JBL MTC300BB3 OR EQUAL BY LOWELL
- Ⓢ SMALL SPEAKER ENCLOSURE
JBL MTC100BB3 OR EQUAL BY LOWELL

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Professional Seal

No.	Date	Issue
2	06/05/2024	Issued for Bid
1	02/14/2024	Progress

Sheet Title
**AVV System
Conduit
1st FLOOR RCP**

Job No.	Date
2020-1005	02/06/24

Scale	Drawn / Checked	Author / Checker
AS NOTED		

Sheet Number
AVV103

01 REFLECTED CEILING PLAN
LEVEL 01
AV103.00 1/8" = 1'-0"

**HARRISON
RECREATION &
COMMUNITY
CENTER**

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.686.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS



NOTES - GENERAL

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4. VERIFY WITH AND OBTAIN THE APPROVAL OF THE CONSULTANT FOR ALL CONDUIT ROUTING.
5. FURNISH AND INSTALL ALL SPEAKER ENCLOSURE ACCESSORIES AND ASSOCIATED PARTS SUCH AS PENDANTS, BRACKETS, ETC. NEEDED FOR A COMPLETE, SECURE, AND SAFE INSTALLATION.

- ⑥ LARGE SPEAKER ENCLOSURE
JBL MTC300BB12 OR EQUAL BY LOUELL
- ⑤ MID SPEAKER ENCLOSURE
JBL MTC300BB8 OR EQUAL BY LOUELL
- ④ SMALL SPEAKER ENCLOSURE
JBL MTC200BB6 OR EQUAL BY LOUELL

01 REFLECTED CEILING PLAN
LEVEL 02
AV104.00 1/8" = 1'-0"

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Professional Seal

No.	Date	Progress	Issue
2	06/05/2024	Issued for Bid	
1	02/14/2024	Progress	

Sheet Title
**AVV System
Conduit
2nd FLOOR RCP**

Job No.	Date
2020-1005	02/06/24

Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number
AVV104