

(Municipal File No. SPC 1009)
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ISSUED DATE:.

Aug.18.22

City of Peterborough

FIRE STATION NO. 2

PROJECT ADDRESS:

**100 Marina Boulevard,
Peterborough ON
K9H 6M6**

ARCHITECT:

Lett Architect Inc.
138 Simcoe Street, Peterborough, Ontario, K9H 2H5
P.705.743.3311 E.studio@lett.ca

STRUCTURAL ENGINEER

AMR ENGINEERING LTD.
920 Alness Street, Suite 205, Toronto, Ontario, M3J 2H7
P.416.551.1611 E.dkotobelli@amrengineering.ca

MECHANICAL ENGINEER

Durham Energy Specialist Limited
209 Dundas St. East, Unit 106, Whitby, Ontario, L1N 7H8
P.905-430-7151 E.jgreer@durhamenergy.com

ELECTRICAL ENGINEER

Durham Energy Specialist Limited
209 Dundas St. East, Unit 106, Whitby, Ontario, L1N 7H8
P.905-430-7151 E.lconforti@durhamenergy.com

CIVIL ENGINEER:

Engage Engineering
171 King Street, Peterborough, Ontario, K9J 2R8
P.705 755 0427 E.brad@engageeng.ca

LANDSCAPE ARCHITECT:

Basterfield & Associates
416 Chambers Street, Peterborough, Ontario, K9H 3V1
P.705 745 3623 E.kim@basterfield.ca

Issued for Tender

A	AND	FLR	FLOOR	PR	PAIR
&	AT	FLUOR	FLUORESCENT	PREFAB	PREFABRICATED
@	ANCHOR BOLT	FND	FOUNDATION	PROJ	PROJECT
AB	AIR CONDITIONING	FO	FACE OF	PSF	POUNDS PER SQUARE FOOT
AC	ACCESSIBLE	FP	FIRE PROTECTION	PT	POINT
ACC	ACOUSTICAL	FR	FIRE RESISTANT	PTD	PRESSURE TREATED
ACCT	ACOUSTIC CEILING TILE	FRC	FIBER REINFORCED CONCRETE	PTN	PAINTED
AD	ADJACENT	FRT	FIRE RETARDANT TREATED	PVC	POLYVINYL CHLORIDE
ADJ	ADJACENT	FT	FEET/FOOT	Q	QUARRY TILE
AFF	ABOVE FINISHED FLOOR	FTG	FOOTING	QT	QUANTITY
AFG	ABOVE FINISHED GRADE	FURN	FURNITURE	R	RADIUS/RISER
AGGR	AGGREGATE	FURR	FURRING	RA	RETURN AIR
ALT	ALTERNATE	FWC	FABRIC WALL COVERING	RAD	RADIUS
ALUM	ALUMINUM	FWP	FABRIC WRAPPED PANEL	RB	RESILIENT BASE
ANOD	ANODIZED	G	GAUGE	RBR	RUBBER
APC	ACOUSTICAL PANEL CEILING	GALV	GALVANIZED	RCP	REFLECTED CEILING PLAN
APPROX	APPROXIMATE	GB	GRAB BAR	RD	ROOF DRAIN
ARCH	ARCHITECTURAL	GC	GENERAL CONTRACT(OR)	REC	RECESSED
ASPH	ASPHALT	GEN	GENERAL	RECP	RECEPTACLE
ATTN	ATTENTION	GFR	GLASS FIBER REINFORCED CONCRETE	REF	REFERENCE
AUTO	AUTOMATIC	GL	GLASS	REFR	REFRIGERATOR
AV	AUDIOVISUAL	GLAZ	GLAZING	REG	REGISTER
B	BOARD	GRAN	GRANULAR	REINF	REINFORCED REINFORCING
BD	BITUMINOUS	GRD	GROUND	REINF	REINFORCED
BIT	BUILDING	GRFG	GLASS FIBER REINFORCED GYPSUM	REL	RELOCATE
BLD	BLOCK	GSM	GALVANIZED SHEET METAL	REM	REMOVABLE
BLK	BLOCKING	GV	GAS VALVE	ROOM	RECOMMENDED
BLKG	BLOCKING	GWB	GYPSUM WALL BOARD	REQ	REQUIRED
BM	BOTTOM	GYP	GYPSUM	RESIL	RESILIENT
BO	BOTTOM OF	H	HIGH/HEIGHT	REV	REVISION/REVISED
BOT	BOTTOM	HB	HOSE BIB	RM	ROOM
BRG	BEARING	HC	HOSE BIBB	RO	ROUGH OPENING
BRK	BRICK	HD	HANDICAPPED	RTD	RATED
BRKT	BRACKET	HC	HANDICAPPED	RTG	RATING
BSMNT	BASEMENT	HDWD	HARDWOOD	RWL	RAIN WATER LEADER
C	CHANNEL	HDWR	HARDWARE	S	SOUTH
CAB	CABINET	HGT	HEIGHT	SA	SUPPLY AIR
CAT	CATEGORY	HM	HOLLOW METAL	SAF	SELF ADHERED FLASHING
CB	CATCH BASIN	HNDRL	HANDRAIL	SC	SOLID CORE
CB	CEMENT BOARD	HO	HOLD OPEN	SCHED	SCHEDULE
CBU	CEMENTITIOUS BACKER UNIT	HORIZ	HORIZONTAL	SD	STORM DRAIN
CC	CENTER TO CENTER	HR	HOUR	SECT	SECTION
CCTV	CLOSED CIRCUIT TELEVISION	HRC	HOSE REEL CABINET	SF	SQUARE FEET/FOOT
CEM	CEMENT	HTG	HEATING	SH	SPRINKLER HEAD
CER	CERAMIC	HVAC	HEATING VENTILATION AND AIR CONDITIONING	SHR	SHOWER
CG	CORNER GUARD	HW	HOT WATER	SHT	SHEET
CH	CHILLER	I	INSIDE DIAMETER	SIM	SIMILAR
CI	CAST IRON	ID	INSIDE DIAMETER	SM	SHEET METAL
CIP	CAST-IN-PLACE	IN	INCH/INCHES	SM	SURFACE MOUNTED
CJ	CONTROL JOINT	INCAND	INCANDESCENT	SP	STANDPIPE
CL	CENTERLINE	INCL	INCLUDED/INCLUDING	SPEC	SPECIFICATION
CLG	CEILING	INFO	INFORMATION	SPEC	SPECIFIED OR SPECIFICATION
CLR	CLEAR	INSUL	INSULATION	SPK	SPRINKLER OR SPEAKER
CNTR	COUNTER	INSUL	INSULATED OR INSULATION	SPKR	SPEAKER
CO	CLEANOUT	INT	INTERIOR	SQ	SQUARE
COL	COLUMN	INTERM	INTERMEDIATE	SS	STAINLESS STEEL
CONC	CONCRETE	INV	INVERT	SSK	SERVICE SINK
COND	CONDITION	J	JANITOR	STA	STATION
CONN	CONNECTION	JC	JANITOR'S CLOSET	STC	SOUND TRANSMISSION COEFFICIENT
CONST	CONSTRUCTION	JST	JOIST	STL	STEEL
CONT	CONTINUOUS	JT	JOINT	STOR	STORAGE
CONTR	CONTRACTOR	K	KITCHEN	STRG	STRINGER
COORD	COORDINATE	KIT	KITCHEN	STRUCT	STRUCTURAL
CORR	CORRIDOR	KO	KNOCK OUT	STRUCT	STRUCTURE OR STRUCTURAL SUBCATEGORY
CPT	CARPET	L	LAMINATE	SUBCAT	SUBCATEGORY
CT	CERAMIC TILE	LAM	LAMINATE	SUSP	SUSPENDED
CTR	CENTER	LAV	LAVATORY	SYM	SYMMETRICAL
CTSK	COUNTERSUNK	LAV	LAVATORY	SYS	SYSTEM
CW	COLD WATER	LB	LOADS	T	TREAD
D	DEEP	LLH	LONG LEG HORIZONTAL	T	TREAD
DBL	DOUBLE	LLV	LONG LEG VERTICAL	T&B	TOP AND BOTTOM
DEG	DEGREE	LT	LIGHT	T&G	TONGUE AND GROOVE
DEMO	DEMOLISH OR DEMOLITION	M	MASONRY	TB	TOWEL BAR
DEMO	DEMOLITION	MAS	MASONRY	TEL	TELEPHONE/TELECOM
DEPT	DEPARTMENT	MAX	MAXIMUM	TELE	TELEPHONE
DF	DRINKING FOUNTAIN	MECH	MECHANICAL	TEMP	TEMPERATURE
DIA	DIAMETER	MED	MEDIUM	TEMP	TEMPORARY
DIFF	DIFFUSER	MEMBR	MEMBRANE	THK	THICKNESS
DIM	DIMENSION	MFR	MANUFACTURER	THRU	THROUGH
DIMS	DIMENSIONS	MH	MAN HOLE	TKBD	TACK BOARD
DISP	DISPENSER	MIN	MINIMUM	TLT	TILE
DIV	DIVISION	MISC	MISCELLANEOUS	TMPD	TEMPERED
DMPF	DAMP PROOFING	MO	MASONRY OPENING	TO	TOP OF
DN	DOWN	MR	MOISTURE RESISTANT	TOB	TOP OF BEAM
DO	DOOR OPENING	MTD	MOUNTED	TOC	TOP OF CONCRETE
DR	DOOR	MTG	MOUNTING	TOS	TOP OF STEEL
DRN	DRAIN	MTL	METAL	TS	TUBE STEEL
DS	DOWNSPOUT	MULL	MULLION	TV	TELEVISION
DS	DOWN SPOUT	N	NORTH	TYP	TYPICAL
DTL	DETAIL	NA	NOT APPLICABLE	UNFIN	UNFINISHED
DW	DISHWASHER	NC	NOISE CRITERIA	UNO	UNLESS NOTED OTHERWISE
DWG	DRAWING	NIC	NOT IN CONTRACT	UON	UNLESS OTHERWISE NOTED
DWR	DRAWER	NO	NUMBER	URNL	URNAL
E	EACH	NOM	NOMINAL	V	VACUUM
EA	EAST	NON	NON COMBUSTIBLE	VAC	VENTILATION AND AIR CONDITIONING
EB	EXPANSION BOLT	COMB	COMBUSTIBLE	VAR	VARIABLES
EJ	EXPANSION JOINT	NTS	NOT TO SCALE	VCT	VINYL COMPOSITION TILE
EL	ELEVATION	O	OUTSIDE AIR	VERT	VERTICAL
ELEC	ELECTRICAL	OA	OUTSIDE AIR	VEST	VESTIBULE
ELEV	ELEVATOR	OC	ON CENTER	VIF	VERIFY IN FIELD
EMER	EMERGENCY	OD	OUTSIDE DIAMETER	VP	VISION PANEL
ENCL	ENCLOSURE	OD	OVERFLOW DRAIN	VR	VAPOR RETARDER
ENG	ENGINEER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	VT	VINYL TILE
EP	ELECTRICAL PANEL	OFF	OFFICE	VWC	VINYL WALL COVERING
EPDM	ETHYLENE PROPYLENE DIENE	OFOI	OWNER FURNISHED, OWNER INSTALLED	W	WIDE/WEST
EQ	EQUAL	OH	OVERHEAD	W	WITH
EQUIP	EQUIPMENT	OPNG	OPENING	W/O	WITHOUT
EXH	EXHAUST	OPP	OPPOSITE	WC	WATER CLOSET
EXIST	EXISTING	ORD	OVERFLOW ROOF DRAIN	WD	WOOD
EXP	EXPANSION	P	PAINT	WIN	WINDOW
EXT	EXTERIOR	PAV	PAVING	WM	WIRE MESH
F	FIRE ALARM	PBD	PARTICLE BOARD	WP	WATERPROOF/WATERPROOFING
FA	FACE BRICK	PC	PRECAST	WPM	WATERPROOF MEMBRANE
FB	FLOOR DRAIN	PDF	POWER DRIVEN FASTENER	WS	WEATHER-STRIPPING
FD	FLOOR DRAIN OR FIRE DEPARTMENT	PERF	PERFORATED	WSCT	WAINSCOT
FDC	FIRE DEPARTMENT CONNECTION	PERIM	PERIMETER	WT	WEIGHT
FE	FIRE EXTINGUISHER	PERP	PERPENDICULAR	WV	WATER VALVE
FEC	FIRE EXTINGUISHER CABINET	PL	PLATE	WWF	WELDED WIRE FABRIC
FF&E	FURNITURE, FIXTURES AND EQUIPMENT	PLAM	PLASTIC LAMINATE	WWM	WELDED WIRE MESH
FFB	FLUSH FLOOR BOX	PLAS	PLASTER		
FFEL	FINISH FLOOR ELEVATION	PLBG	PLUMBING		
FH	FLAT HEAD	PLF	POUNDS PER LINEAR FOOT		
FHC	FIRE HOSE CABINET	PLYWD	PLYWOOD		
FIN	FINISH	PNL	PANEL		
FIXT	FIXTURE	PNT	PAINT OR PAINTED		
FLASH	FLASHING	POL	POLISHED		

GENERAL NOTES: 1

GENERAL:

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS.

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, NATIONAL BUILDING CODE AND STRUCTURAL COMMENTARIES (PART 4). ABIDE BY LOCAL MUNICIPAL BY-LAWS AND OTHER REGULATORY AGENCIES THAT MAY AFFECT THE WORK.

ALL DIMENSIONS, ELEVATIONS, OPENINGS FOR PIPES, SLEEVES, EQUIPMENT LOCATIONS AND THE LIKE SHALL BE CHECKED WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE OWNER BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THESE DRAWINGS.

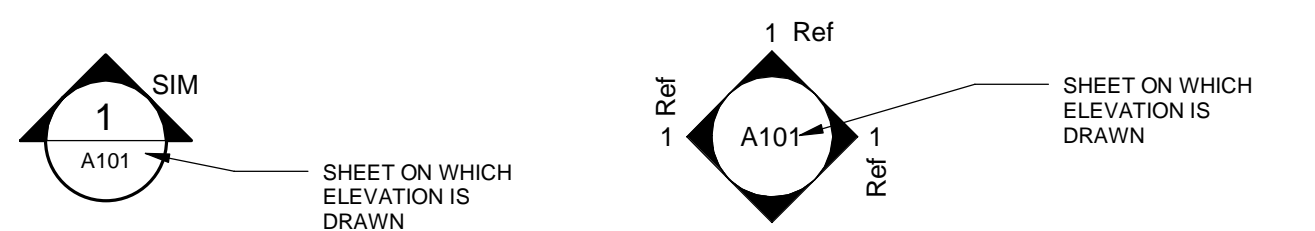
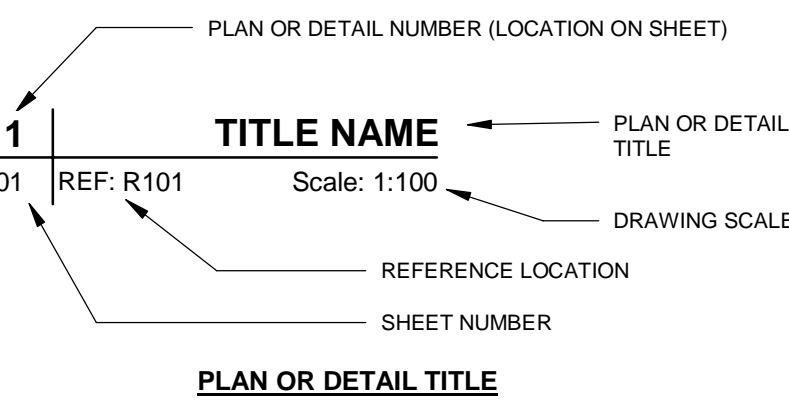
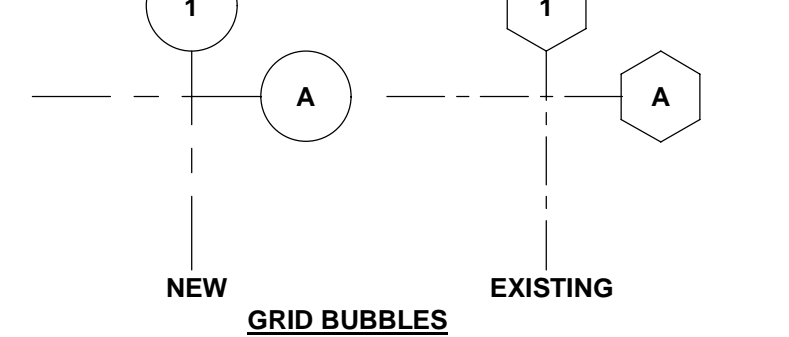
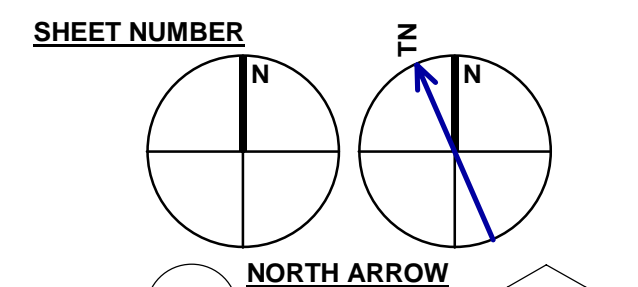
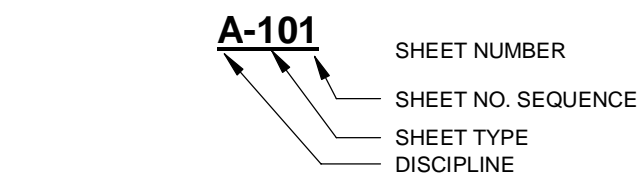
CLT PANEL COORDINATION:

GC TO ENSURE CLT & MECH. TRADES COORDINATE PENETRATIONS AND FINAL DUCT SIZING/RUNS THROUGH CLT

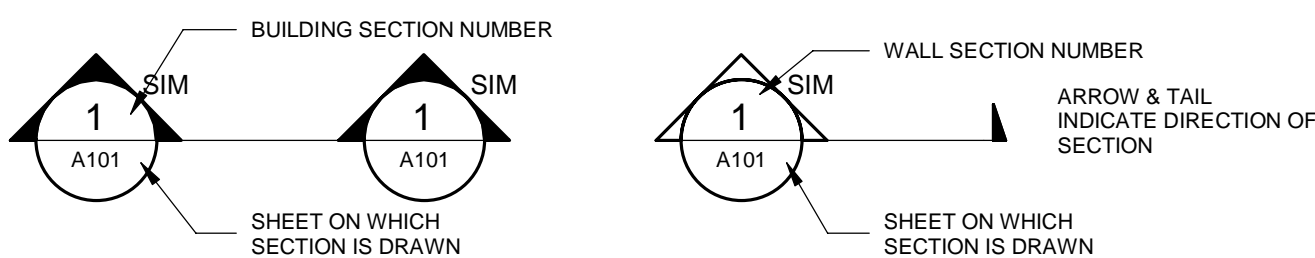
CLT OPENINGS TO BE RATIONALIZED IN PANELS AND COORDINATE WITH OTHER TRADES

SYMBOLGY LEGEND

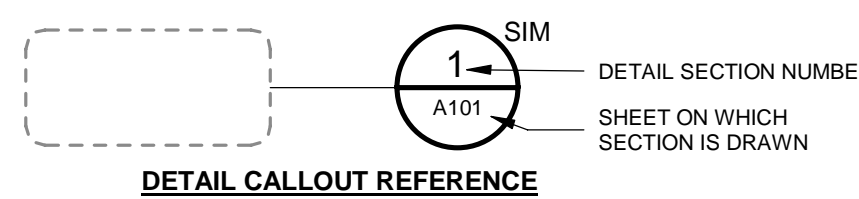
SEE SHEETS FOR SPECIFIC SYMBOLS



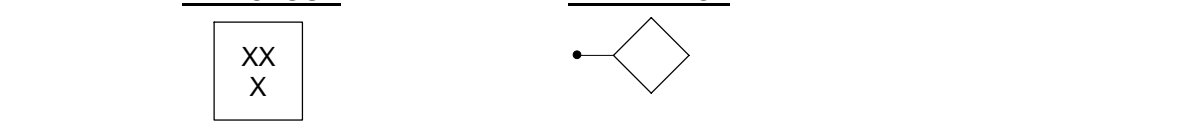
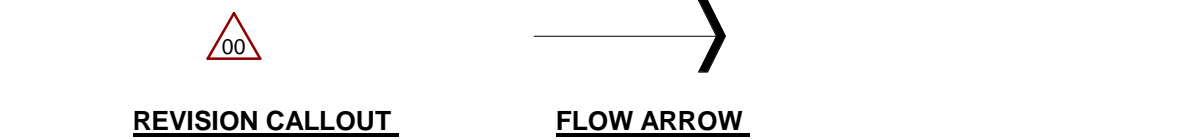
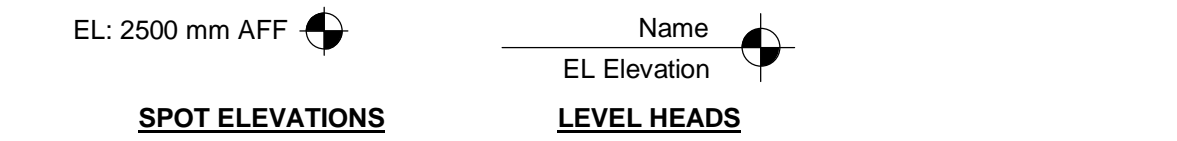
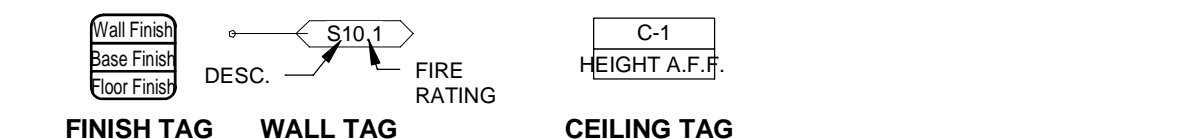
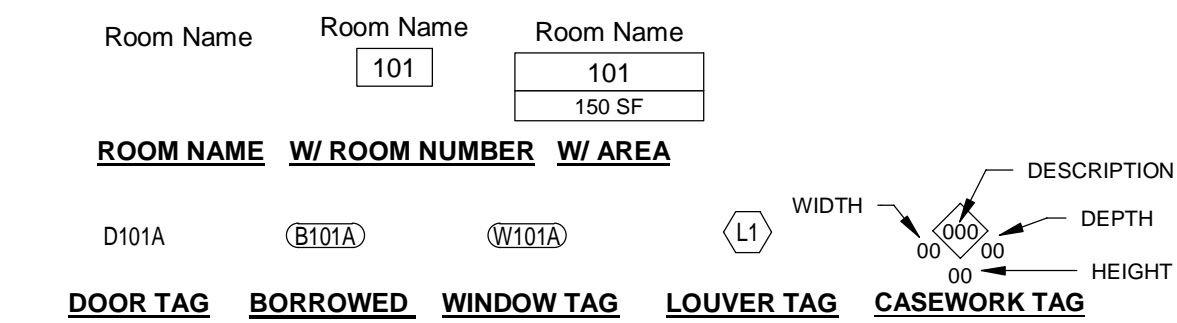
EXTERIOR ELEVATION REFERENCE INTERIOR ELEVATION REFERENCE



BUILDING SECTION REFERENCE WALL SECTION REFERENCE



DETAIL CALLOUT REFERENCE



138 Simcoe Street Peterborough Ontario K9H 2H5 t. 705.743.3311 e. studio@lett.ca

ISSUE / REVISIONS

1	Issued for Site Plan Application	Jan.28.22
2	Issued for Building Permit	Mar.21.22
3	Issued for Building Permit Response	Apr.25.22
4	Issued for Tender	Aug.18.22



All dimensions to be checked and verified on site. Do not scale drawings. Any discrepancies are to be reported to the Consultant. All drawings remain the property of the Consultant. Only latest approved drawings to be used for construction.

CONSTRUCTION DOCUMENTATION

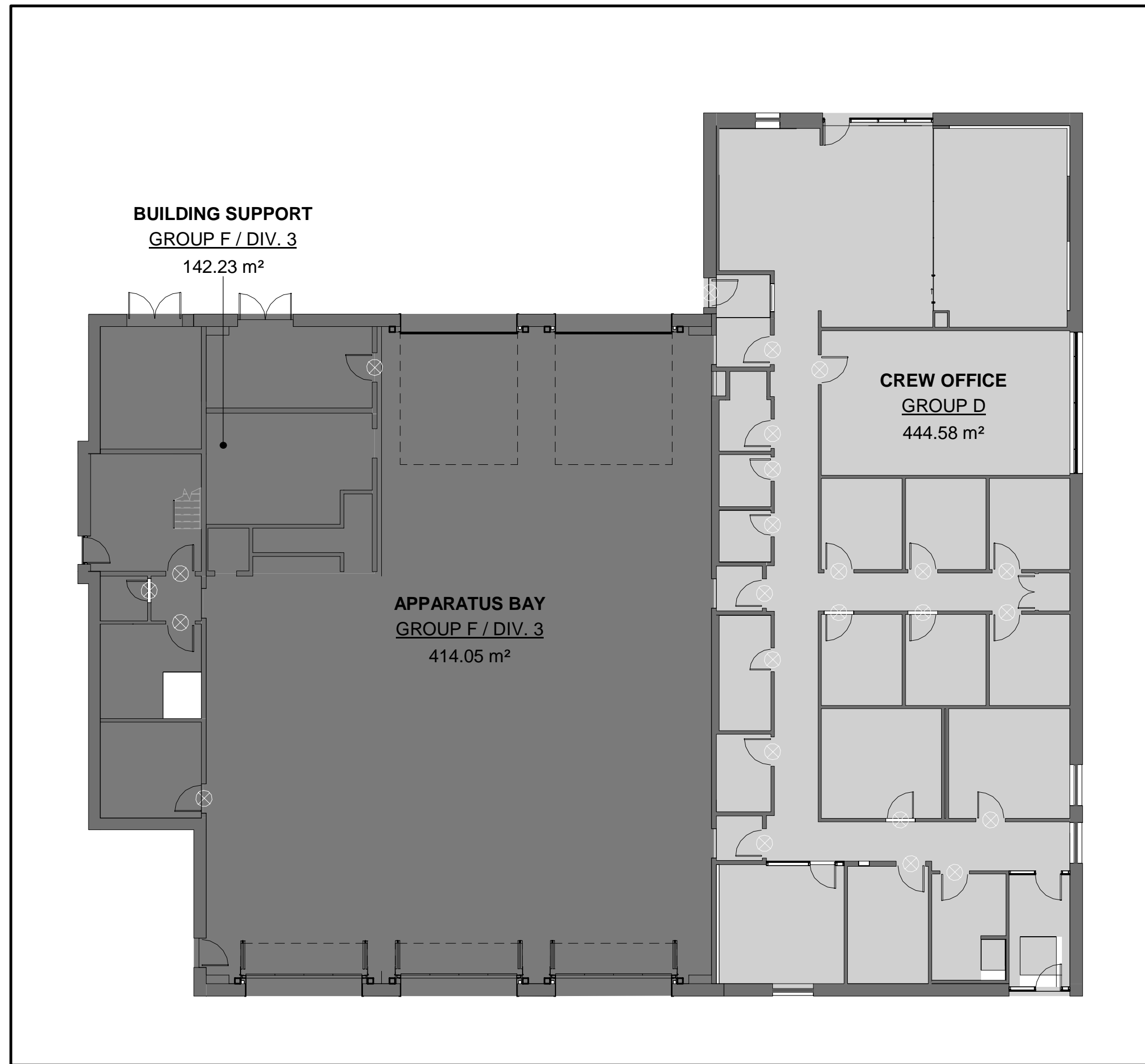
PROJECT No. 21-100 START DATE OCT.2021

City of Peterborough FIRE STATION NO. 2

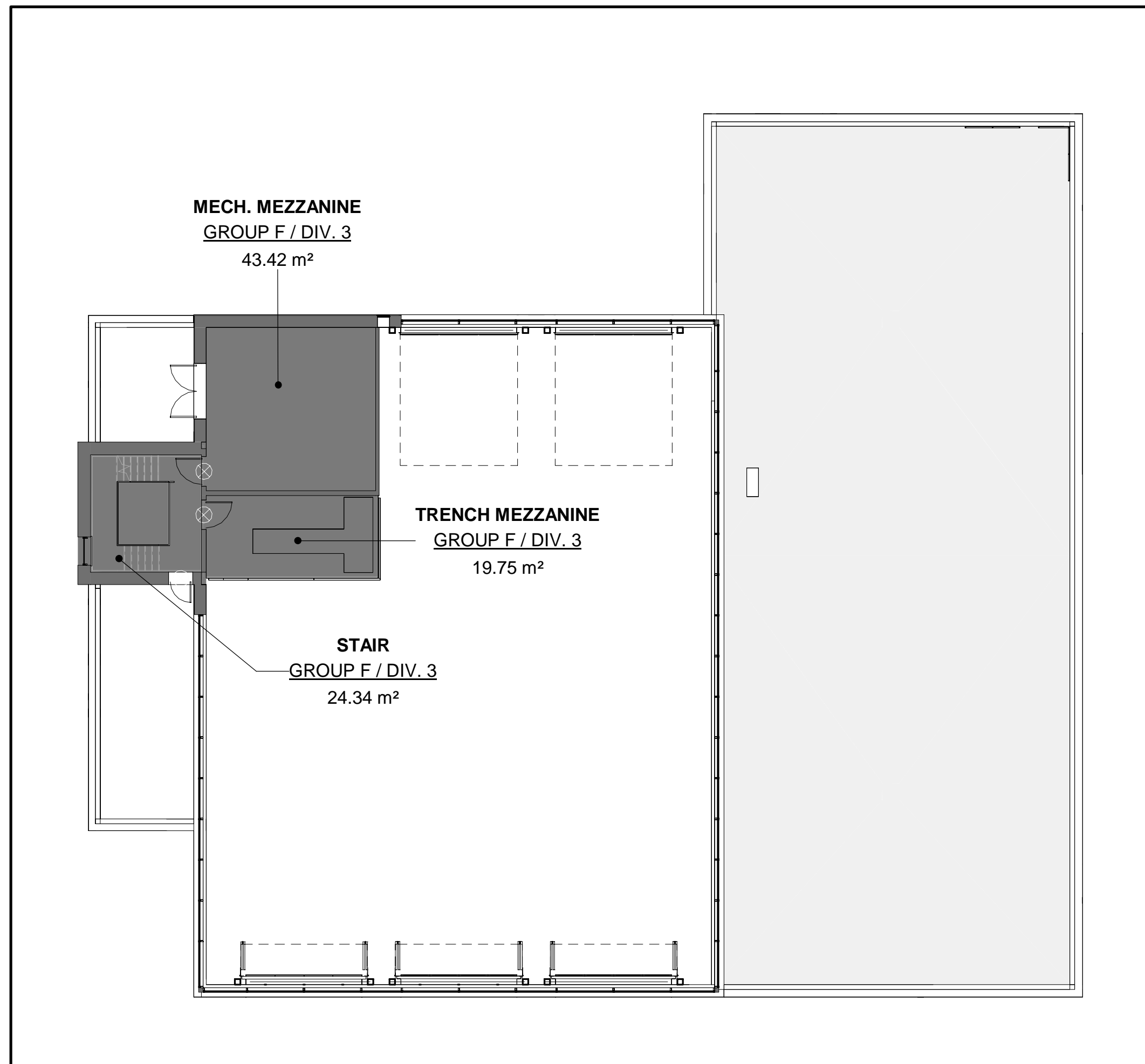
(Municipal File No. SPC 1009) 100 Marina Boulevard, Peterborough ON K9H 6M6

GENERAL NOTES & ABBREVIATIONS

G-000



2 | FIRST FLOOR AREA PLAN
G-001 REF: A-201 Scale: 1 : 150



1 | MEZZANINE FLOOR AREA PLAN
G-001 REF: A-301 Scale: 1 : 150

REF #	ITEM	DESCRIPTION
(01)	PROJECT DESCRIPTION:	This is a 1-storey, post-disaster, fire station, proposed to relocate the existing City of Peterborough Fire Station No. 2. It is comprised of an office component at the east side with office, kitchen, dining, lounge, exercise, washroom facilities, storage, janitorial, and rest areas for crews, and an apparatus bay at the west side conforming to the definition of a storage garage. The structure of the building is heavy timber, including glulam columns and beams, with CLT shear walls and roof decks. The mezzanine is constructed of a steel column and beam grid with steel decking and concrete topping. The mezzanine provides for a training area open to the apparatus bay and protected by a railing, along with a mechanical room enclosed from the adjacent and lower spaces. The hose tower at the west of the building is also constructed of a steel structure, providing access and exit from the mezzanine and roof levels, while also accommodating the drying of hoses, and some training exercises. While the building area does not require that the building is sprinklered, the Fire Department is opting for full sprinklering of the building. The building is registered to achieve Net-Zero Carbon and Net-Zero Energy Certification through the CaGBC, and as such, the performance of the envelope (walls, roofs and openings) will perform to higher levels than the building code requires. In addition, to meet the Net-Zero Energy certification requirements the building must provide for its full energy demand in on-site energy production. Therefore, a full solar array will be accommodated on both the high roof of the apparatus bay and the low roof of the office side.
(05)	MEZZANINE AREA:	Mech. Mezz. and Trench Mezz. not considered a storey per OBC 3.2.1.1.(6), (7) & (9). Exception to special protection per OBC 3.2.8.2(1)(c) is true because mezzanine conforms to 3.2.1.1.(8). Per OBC 3.6.2.1.(6) the service room shall be separated from the remainder of the building by a fire separation having a FRR not less than 1 hr.
(19)	FIRE RESISTANCE RATINGS:	Floor assemblies shall be fire separations and if of combustible construction, shall have a fire-resistance rating not less than 45 min, and load-bearing walls, columns and arches supporting an assembly required to have a fire-resistance rating shall, 1. have a fire-resistance rating not less than 45 min, or 2. be of non-combustible construction.
(20)	REQUIRED SEPARATION FIRE RESISTANCE RATINGS:	According to OBC 3.6.2.1 (6) regarding the mechanical room on the mezzanine, The service room shall be separated from the remainder of the building by a fire separation having a FRR not less than 1 hr. According to OBC 3.3.1.20. (3) No fire resistance rating is required at janitor room as full building is sprinklered.
(24)	WASHROOM REQUIREMENTS:	For group D occupancy area/person is allowed to be 14m2 per OBC 3.7.4.2 (1) UWRS are counted as two fixtures per OBC 3.7.4.2.(7)

OCCUPANCY

GROUP D
GROUP F / DIV. 3

GROSS FLOOR AREA SCHEDULE			
NAME	CLASSIFICATION	AREA	AREA ft2
CREW OFFICE	GROUP D	444.58 m²	4,785.39 SF
APPARATUS BAY	GROUP F / DIV. 3	414.05 m²	4,456.79 SF
BUILDING SUPPORT	GROUP F / DIV. 3	142.23 m²	1,530.99 SF
FIRST FLOOR		1,000.86 m²	10,773.17 SF
MECH. MEZZANINE	GROUP F / DIV. 3	43.42 m²	467.39 SF
TRENCH MEZZANINE	GROUP F / DIV. 3	19.75 m²	212.59 SF
STAIR	GROUP F / DIV. 3	24.34 m²	261.97 SF
MEZZANINE		87.51 m²	941.95 SF
		1,088.37 m²	11,715.12 SF

O.B.C. MATRIX

ITEM	2012 ONTARIO BUILDING CODE DATA MATRIX - PARTS 3 AND 9				OBC REFERENCE								
	PROJECT DESCRIPTION: Refer to Building Code Matrix Explanations	NEW <input type="checkbox"/> ADDITION <input type="checkbox"/> ALTERATION	CHANGE OF USE <input type="checkbox"/>	PART 11 11.1 TO 11.4	PART 3 1.1.2.[A]	PART 9							
01	PROJECT DESCRIPTION: Refer to Building Code Matrix Explanations	<input type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input type="checkbox"/> ALTERATION	<input type="checkbox"/> CHANGE OF USE	PART 11 11.1 TO 11.4	PART 3 1.1.2.[A]	PART 9							
02	MAJOR OCCUPANCY(S): GROUP D GROUP F, DIVISION 3				3.1.2.1.(1) APPENDIX "A"								
03	BUILDING AREA (m²):	EXISTING: 0 m² NEW: 1,000.86 m² TOTAL: 1,000.86 m²			1.4.1.2.[A]								
04	GROSS FLOOR AREA (m²):	EXISTING: 0 m² NEW: 1,088.37 m² TOTAL: 1,088.37 m²			1.4.1.2.[A]								
05	MEZZANINE(S) AREA (m²):	EXISTING: 0 m² NEW: 87.51 m² TOTAL: 87.51 m²			3.2.1.1.(3) thru (9)								
	MEZZANINE 10% OR LESS ENCLOSED AREA (m²):	43.42 m²			3.2.1.1.(9)								
	MEZZANINE 40% OR MORE UNCLOSED AREA (m²):	19.75 m²			3.2.1.1.(6), (7), (9)								
06	NUMBER OF STOREYS:	ABOVE GRADE: 1 BELOW GRADE: 0			1.4.1.2.[A], 3.2.1.1.								
07	BUILDING HEIGHT (m):	11.40 m	MEASURED BETWEEN AVERAGE GRADE AND HIGHEST FIN. FLOOR LEVEL, EXCLUDING SERVICE SPACE LEVELS AS PER 3.1.1.(1)										
08	NUMBER OF STREETS / FIRE FIGHTER ACCESS:	1			3.2.2.10. & 3.2.5.								
09	BUILDING CLASSIFICATION:	GROUP D, UP TO 2 STOREYS, SPRINKLERED; GROUP F, DIVISION 3, UP TO 2 STOREYS, SPRINKLERED			3.2.2.56. & 79.								
10	SPRINKLER SYSTEM PROPOSED:	<input checked="" type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> SELECTED COMPARTMENTS <input type="checkbox"/> SELECTED FLOOR AREAS <input type="checkbox"/> BASEMENT ONLY <input type="checkbox"/> IN LIEU OF ROOF RATING <input type="checkbox"/> NOT REQUIRED			3.2.2.56. & 79. 3.2.1.5. 3.2.2.17. INDEX INDEX								
11	STANDPIPE SYSTEM REQUIRED:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			3.2.9. 3.2.8.4(1) 3.4.4.(9)(a)								
12	HOSE CABINET LOCATION:	30.0M MAX. + 3.0M HOSE STREAM			3.2.4.								
13	FIRE ALARM REQUIRED:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			3.2.5.7.								
14	WATER SERVICE/SUPPLY IS ADEQUATE:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			3.2.6.								
15	HIGH BUILDING:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	IF YES, REFER TO 3.2.1.1.(1) FOR REQUIREMENTS CHART		3.2.6.								
16	CONSTRUCTION RESTRICTIONS:	REQUIRED: <input type="checkbox"/> COMBUSTIBLE PERMITTED PROVIDED: <input type="checkbox"/> COMBUSTIBLE	<input type="checkbox"/> NON-COMBUSTIBLE <input checked="" type="checkbox"/> BOTH		3.2.2.56. & 79.								
17	HAZARDOUS SUBSTANCES:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO											
18	BARRIER-FREE DESIGN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (EXPLAIN):			3.8.								
19	BARRIER-FREE ENTRANCES:	No. OF ENTRANCES REQ'D TO BE BARRIER FREE: 1 POWER DOOR OPERATORS REQ'D: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			3.8.1.2. 3.8.3.3.								
20	REQUIRED FIRE RESISTANCE RATINGS:	HORIZONTAL ASSEMBLIES FIRE RESISTANCE RATINGS (F.R.R.) FLOOR: N/A (SLAB ON GRADE) ROOF: NOT RATED MEZZANINE: 1 HR (MECH. MEZZ) * FIRE RESISTANCE RATINGS OF SUPPORTING MEMBERS (F.R.R.) BEAMS: 1 HR * COLUMNS: 1 HR * ARCHES: N/A	LISTED DESIGN No. (ULC) OR ASSEMBLY DESCRIPTION (SB-2) FLOOR: N/A ROOF: N/A MEZZANINE: SB-2 TABLE 2.3.12. LISTED DESIGN No. (ULC) OR ASSEMBLY DESCRIPTION (SB-2) BEAMS: CEILING MEMBRANE PER SB-2 TABLE 2.3.12. COLUMNS: SFIRM (INTUMESCENT PAINT) ARCHES: N/A		3.2.2.56. & 79.								
20	REQUIRED SEPARATION FIRE RESISTANCE RATINGS:	SPACE NAME: APPARATUS BAY GROUND STORAGE / GARBAGE MECH. / SPKLR. / ELEC. JANITOR	REQUIRED RATING: 1.5 HR 1 HR 1 HR* 0 HR*		3.3.5.6 3.6.2.5.(1)(a) 3.6.2.1.(6) 3.3.1.20.(3)								
21	EXITS:	MAX. TRAVEL DISTANCE: 45 m			3.4.2.5								
22	EXPOSED BUILDING FACE & SPATIAL SEPARATION:				3.2.3.1.								
		WALL FACE	AREA OF E.B.F. (m²)	AREA OF U.P.O. (m²)	LIMITING DISTANCE (m)	RATIO LH OR HL (1 : x)	PERMITTED MAX. % OF OPENINGS	PROPOSED MAX. % OF OPENINGS	REQUIRED F.R.R. OF WALL	LISTED DESIGN OR DESCRIPTION	NON-COMB. CONSTR. REQ'D	NON-COMB. CLADDING REQ'D	
		NORTH	161.64 m²	77.04 m²	>255.53 m	<3/1	100 %	47.66147 %	45 MIN	CANULC-S134-13	NON-COMB.COMB	NO	
		EAST	117.12 m²	15 m²	>3 m	3/1 - 10/1	13 %	12.807377 %	45 MIN	CANULC-S134-13	NON-COMB.COMB	NO	
		SOUTH	199.88 m²	116.95 m²	>41.95 m	3/1 - 10/1	100 %	58.510106 %	45 MIN	CANULC-S134-13	NON-COMB.COMB	NO	
		WEST	105.21 m²	10.31 m²	>11.53 m	<3/1	97 %	9.799449 %	45 MIN	CANULC-S134-13	NON-COMB.COMB	NO	
23	OCCUPANT LOAD:	(REFER TO OCCUPANT LOAD CHART FOR SPECIFICS) OCCUPANT LOAD BASED ON: <input type="checkbox"/> sq.m./PERSON OCCUPANCY: LEVEL 01: OFFICES LEVEL 01: REST/STUDY ROOMS LEVEL 01: DINING / LOUNGE LEVEL 01: STORAGE GARAGES	LOAD: PERSONS: 6 6 16 0		DESIGN OF BUILDING		TOTAL OCCUPANT LOAD: 28 PEOPLE				3.1.17.		
24	WASHROOM REQUIREMENTS:	GROUP D 1 PERSON/14m² = 32 PEOPLE (16M, 16F) GROUP F3 1 PERSON/46m² = 14 PEOPLE (7M, 7F)	WASHROOM REQUIRED		WASHROOM PROVIDED						3.7.4. 3.7.4.2.(1) 3.7.4.2.(7)		
25	OTHER:	IMPORTANCE CATEGORY: POST-DISASTER										4.1.2.1	

* REFER TO SPECIFIC ITEM OF BUILDING CODE MATRIX EXPLANATIONS ON THIS SHEET

ISSUE / REVISIONS

1	Issued for Site Plan Application	Jan.28.22
2	Issued for Building Permit	Mar.21.22
3	Issued for Building Permit Response	Apr.25.22
4	Issued for Tender	Aug.18.22



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CONSTRUCTION DOCUMENTATION
PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

BUILDING INFORMATION SHEET

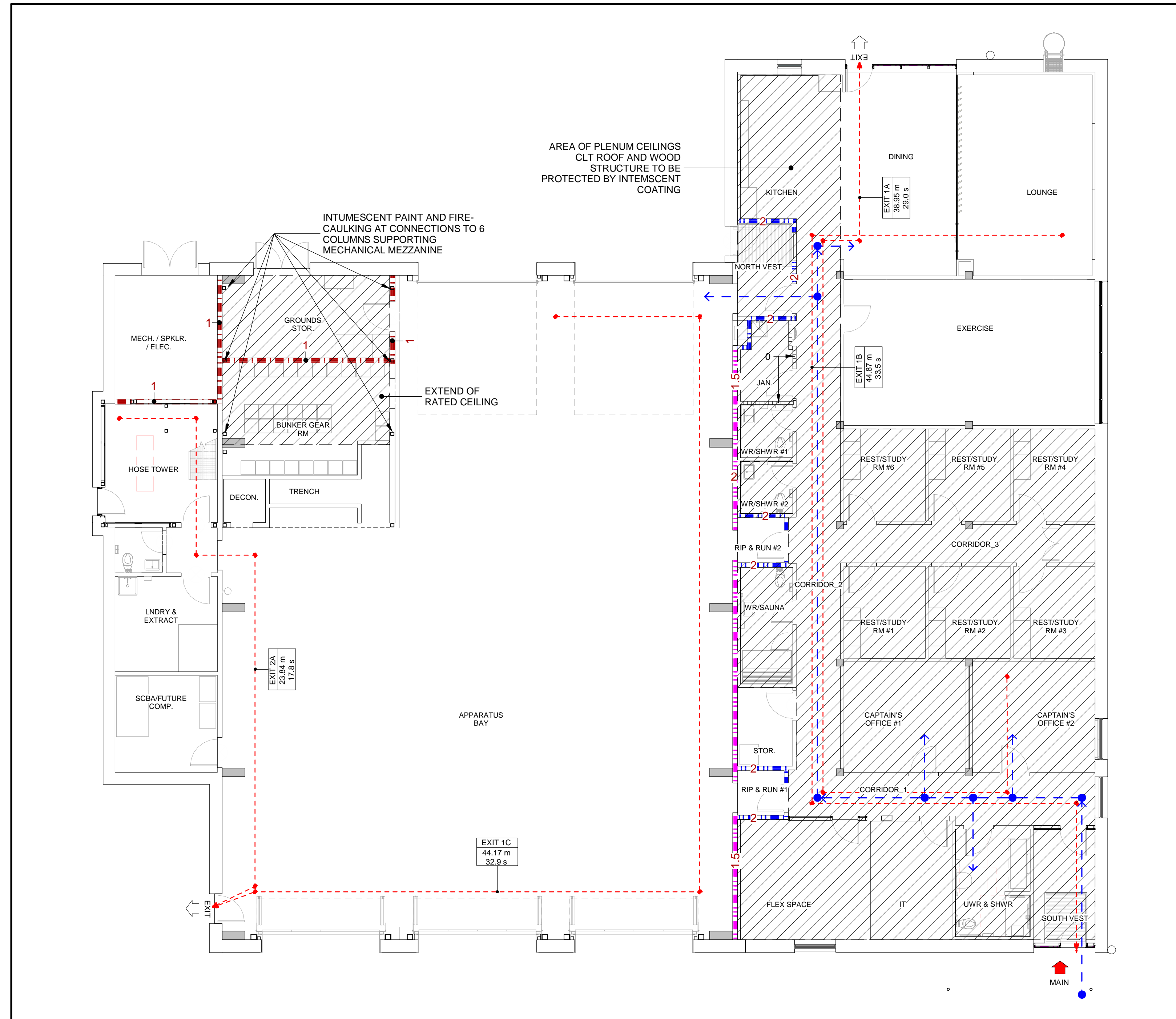
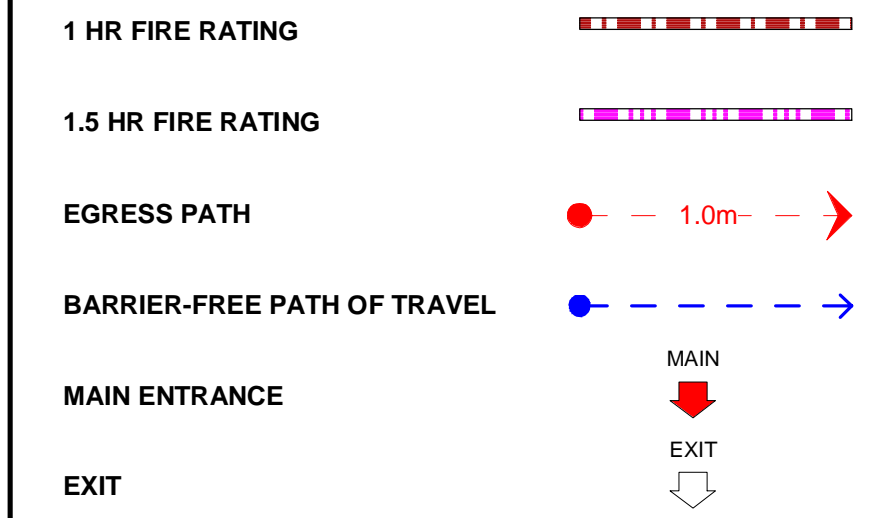
G-001

ISSUE / REVISIONS

1	Issued for Site Plan Application	Jan.28.22
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3	Issued for Building Permit Response	Apr.25.22
4	Issued for Tender	Aug.18.22

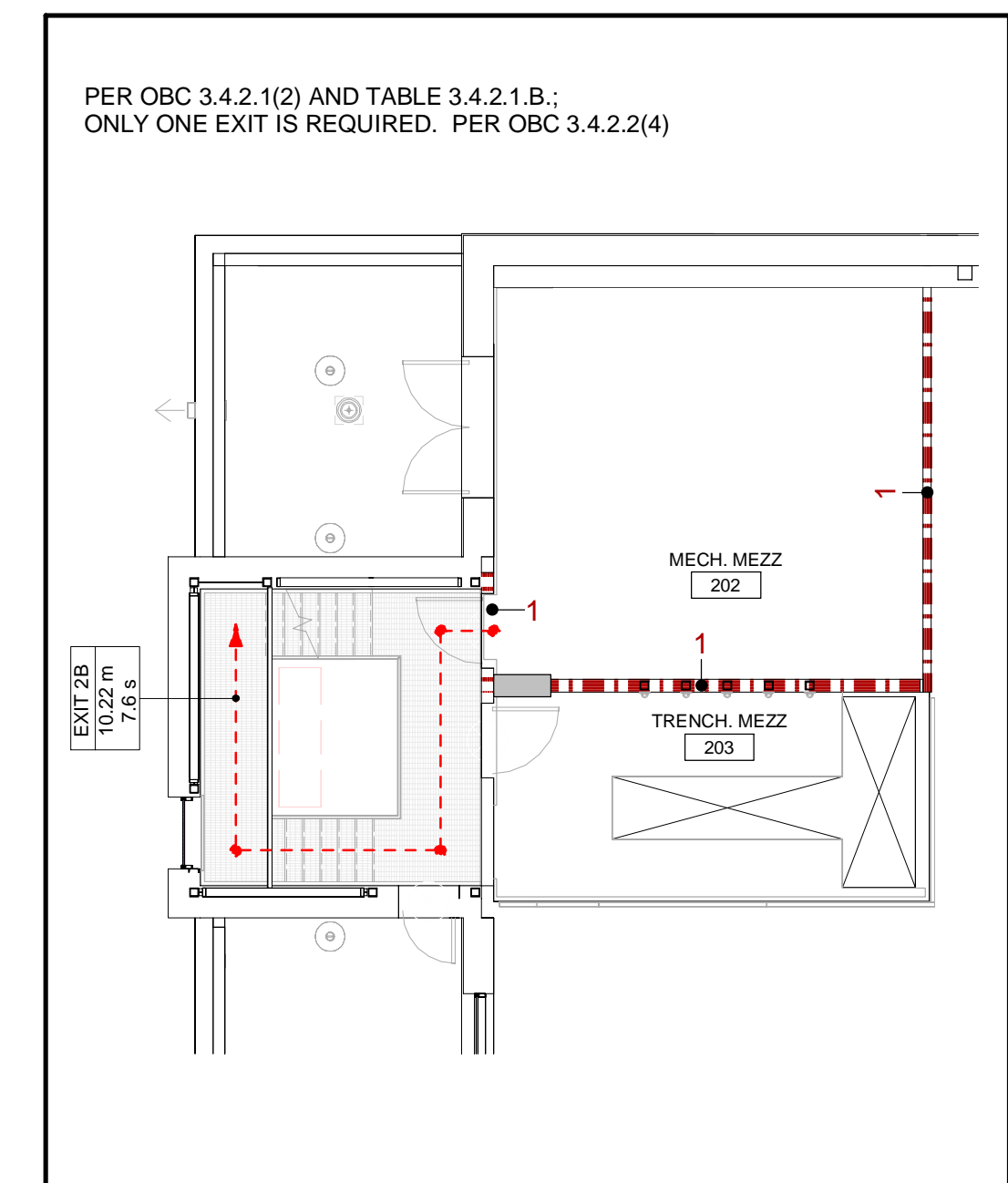
EGRESS PATH OF TRAVEL			
Level	Mark	From Room	Length
FIRST FLOOR	EXIT 1A	CAPTAIN'S OFFICE #2 102	38.85 m
FIRST FLOOR	EXIT 1B	LOUNGE 112C	44.87 m
FIRST FLOOR	EXIT 1C	APPARATUS BAY 131	44.17 m
FIRST FLOOR	EXIT 2A	HOSE TOWER 136	23.84 m
MEZZANINE	EXIT 2B	MECH. MEZZ 202	10.22 m

LIFE SAFETY LEGEND



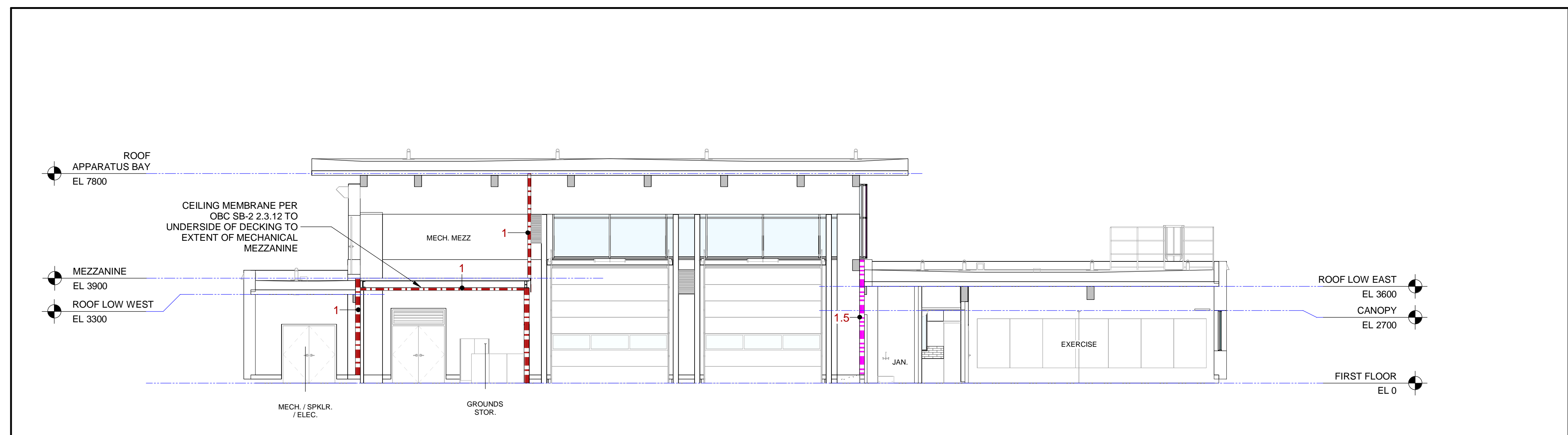
3 FIRST FLOOR LIFE SAFETY PLAN

G-002 REF: A-201 Scale: 1 : 100



2 MEZZANINE FLOOR LIFE SAFETY PLAN

G-002 REF: A-301 Scale: 1 : 100



1 BUILDING SECTION - LIFE SAFETY

G-002 REF: A-301 Scale: 1 : 100

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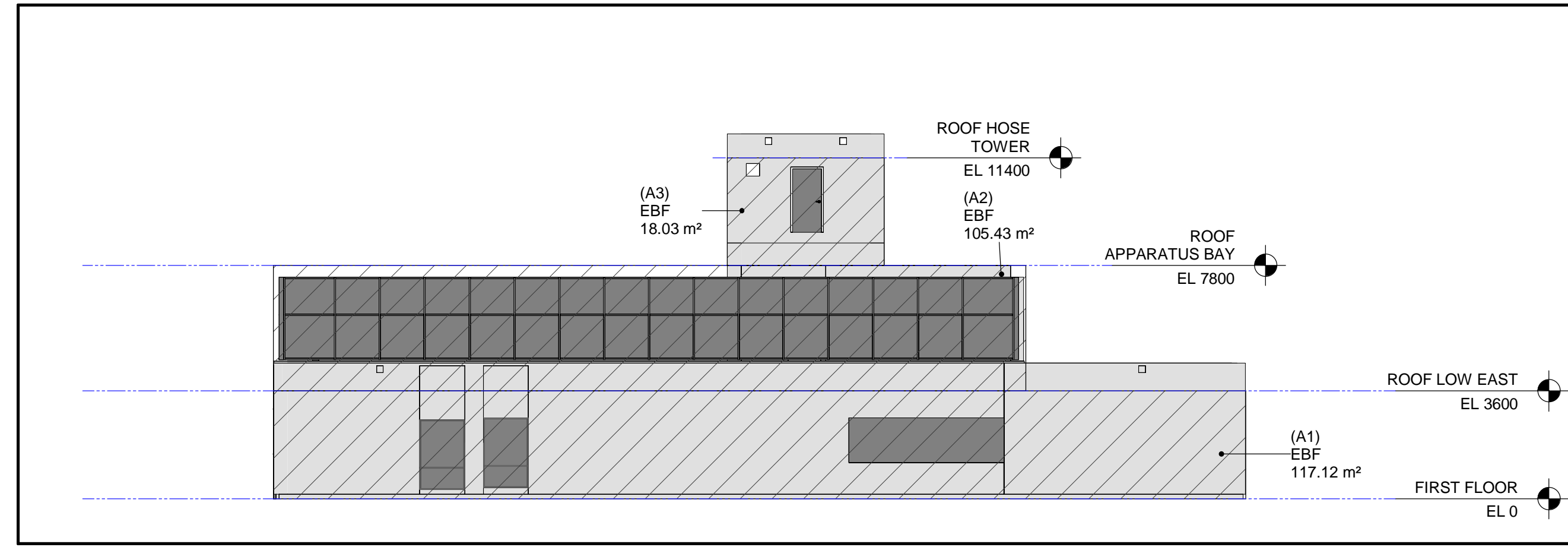
CONSTRUCTION DOCUMENTATION

PROJECT No. 21-100
START DATE OCT.2021

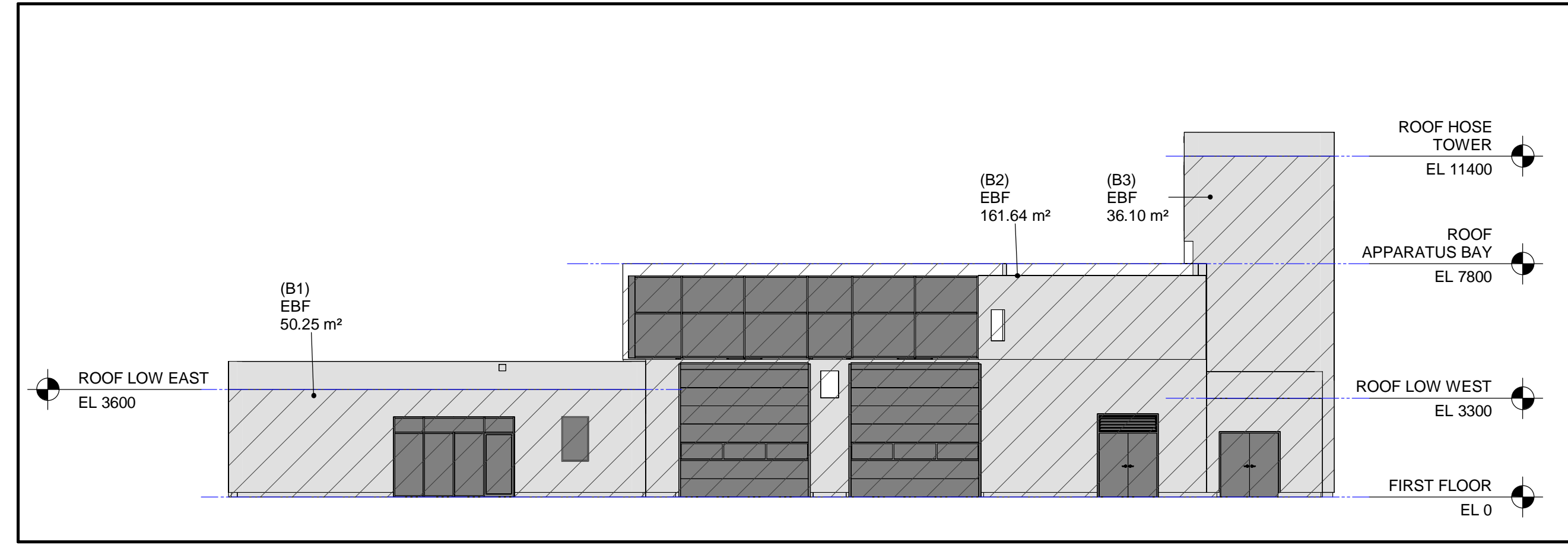
**City of Peterborough
FIRE STATION NO. 2**

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

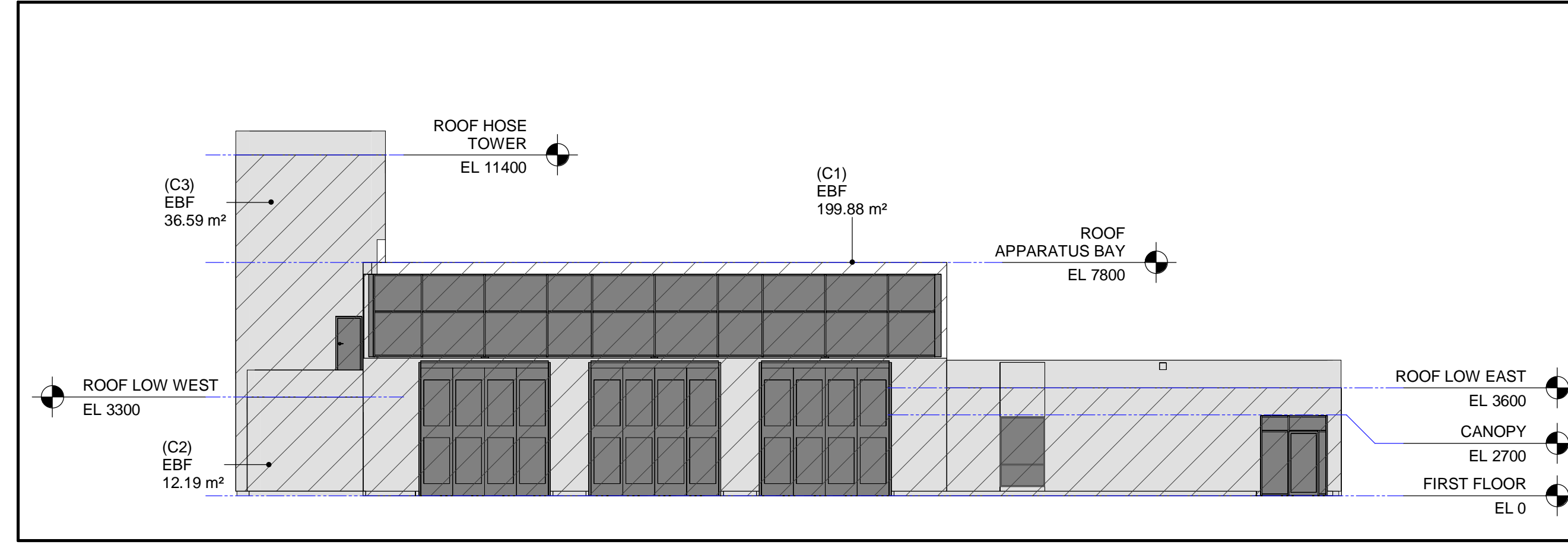
LIFE SAFETY PLANS



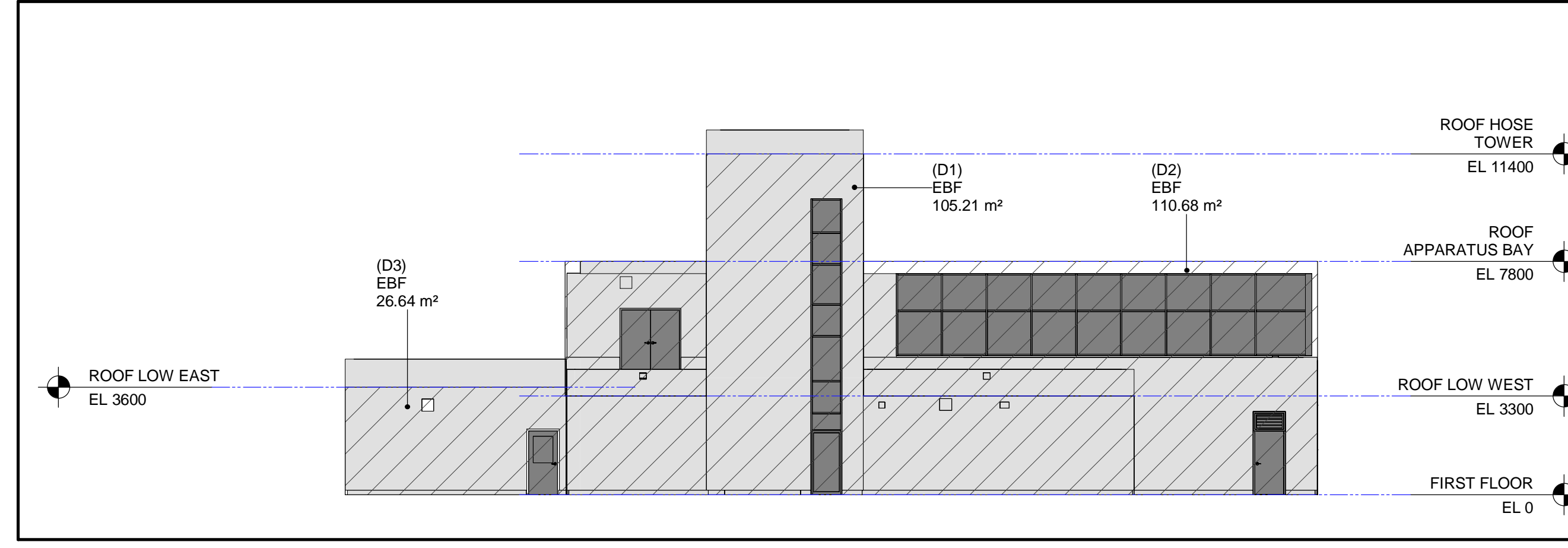
A EAST ELEVATION - EBF
G-003 REF: Scale: 1 : 150



B NORTH ELEVATION - EBF
G-003 REF: Scale: 1 : 150

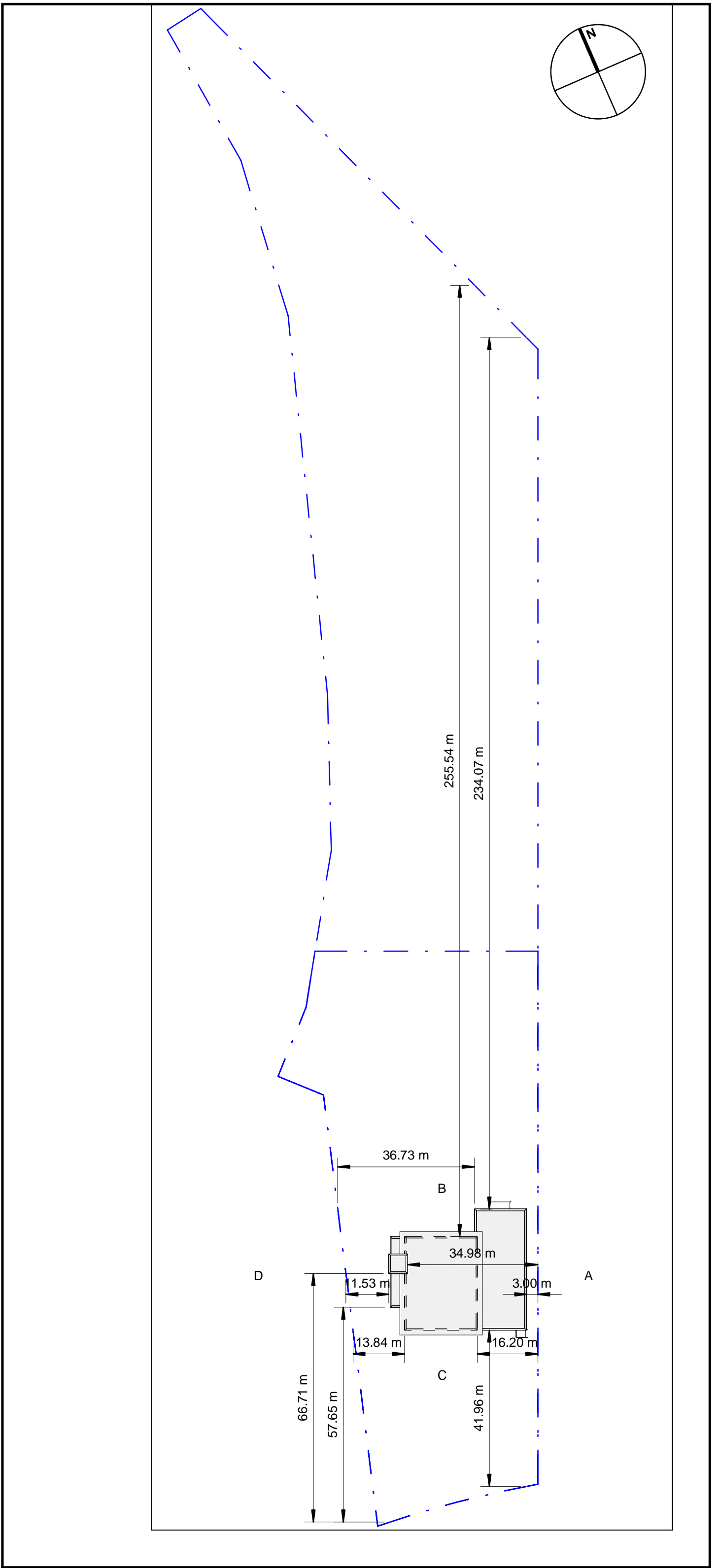


C SOUTH ELEVATION - EBF
G-003 REF: Scale: 1 : 150



D WEST ELEVATION - EBF
G-003 REF: Scale: 1 : 150

EXPOSED BUILDING FACE CALCULATIONS (EBF)							
*Fenestration Area: Sum of unprotected opening							
ID	FACADE	Type	Areas		Percent (openings to wall)	Limiting Distance	Allowable Percent (OBC 3.2.3.1)
			Wall	Fenestration			
A1	EAST	WALL AREA - EBF	117.12 m²	15.00 m²	12.81%	3.00 m	22.0%
A2	EAST	WALL AREA - EBF	105.43 m²	67.68 m²	64.19%	16.20 m	100.0%
A3	EAST	WALL AREA - EBF	18.03 m²	1.96 m²	10.87%	34.96 m	100.0%
B1	NORTH	WALL AREA - EBF	50.25 m²	13.05 m²	25.97%	234.07 m	100.0%
B2	NORTH	WALL AREA - EBF	161.64 m²	77.04 m²	47.66%	255.53 m	100.0%
B3	NORTH	WALL AREA - EBF	36.10 m²	0.00 m²	0.00%	283.12 m	100.0%
C1	SOUTH	WALL AREA - EBF	199.88 m²	116.95 m²	58.51%	41.95 m	100.0%
C2	SOUTH	WALL AREA - EBF	12.19 m²	0.00 m²	0.00%	57.65 m	100.0%
C3	SOUTH	WALL AREA - EBF	36.59 m²	1.43 m²	3.91%	66.70 m	100.0%
D1	WEST	WALL AREA - EBF	105.21 m²	10.31 m²	9.80%	11.53 m	97.0%
D2	WEST	WALL AREA - EBF	110.68 m²	44.69 m²	40.38%	13.84 m	100.0%
D3	WEST	WALL AREA - EBF	26.64 m²	3.87 m²	14.53%	36.72 m	100.0%



1 SITE PLAN - LIMITING DISTANCE
G-003 REF: A-201 Scale: 1 : 1000

ISSUE / REVISIONS

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PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

SPATIAL SEPARATION & EXPOSURE PROTECTION

FOUNDATION & EXTERIOR WALL ASSEMBLIES					
NOTES: R VALUES ARE FOR INSULATION ONLY					
TYPE		DESCRIPTION	THICK	Total R Value	Comments
EW-1		EXTERIOR WALL THIN BRICK VENEER ON CLT: • 14mm THIN BRICK VENEER ON MORTAR BED • 16mm CEMENT BOARD • 25mm HAT BARS @610mm O.C. VERT. (CONT. AIR SPACE) • WEATHER RESISTANT BARRIER (WRB) • 229mm / R35 MINERAL WOOL INSULATION NESTED IN CLIP & RAIL SYSTEM • CONTINUOUS VAPOUR PERMEABLE AIR BARRIER • 175mm CLT PANEL, SEE STRUCT.	462 mm	35	
EW-2		EXTERIOR WALL THIN BRICK VENEER ON METAL STUD: • 14mm THIN BRICK VENEER ON MORTAR BED • 16mm CEMENT BOARD • 25mm HAT BARS @610mm O.C. VERT. (CONT. AIR SPACE) • WEATHER RESISTANT BARRIER (WRB) • 229mm / R35 MINERAL WOOL INSULATION NESTED IN CLIP & RAIL SYSTEM • CONT. AIR VAPOUR BARRIER • 13mm EXTERIOR GWB SHEATHING • 152mm STEEL STUD @ 610mm O.C. • 16mm GWB	468 mm	35	
EW-3		EXTERIOR WALL METAL SIDING ON CLT: • METAL SIDING PLANKS w. CONCEALED FASTENER • 25mm HAT BARS @610mm O.C. HOR. PRE.FIN. BLACK (CONT. AIR SPACE) • WEATHER RESISTANT BARRIER (WRB) • 229mm / R35 MINERAL WOOL INSULATION NESTED IN CLIP & RAIL SYSTEM • CONTINUOUS VAPOUR PERMEABLE AIR BARRIER • 175mm CLT PANEL, SEE STRUCT.	437 mm	35	
FW-1		FOUNDATION INSULATION: • #22 GAUGE PREFINISHED METAL TRANSITION SHEET AT GRADE, ADHERED TO INSULATION BOARD • 100mm XPS INSULATION BOARDS 600mm DEEP • 100mm XPS INSULATION BOARDS FULL HEIGHT OF FDN. WALL • SPRAY-APPLIED WATERPROOF COURSE TO 300mm ABOVE GRADE LINE • CAST-IN-PLACE CONCRETE WALL - REFER TO STRUCTURAL	206 mm	40	SEE DETAILS
FW-1*		FOUNDATION INSULATION: • #22 GAUGE PREFINISHED METAL TRANSITION SHEET AT GRADE, ADHERED TO INSULATION BOARD • 100mm XPS INSULATION BOARDS FULL HEIGHT OF FDN. WALL • SPRAY-APPLIED WATERPROOF COURSE TO 300mm ABOVE GRADE LINE • CAST-IN-PLACE CONCRETE WALL - REFER TO STRUCTURAL	104 mm	20	<varies>

INTERIOR WALL & BULKHEAD SCHEDULE								
*PROVIDE FIRESTOP MATERIALS AND SMOKE SEALANTS AT ALL VOIDS AT FIRE-RESISTANT RATED PARTITIONS AND JUNCTIONS. *REFER TO ROOM FINISH SCHEDULES AND INTERIOR ELEVATION DRAWINGS FOR INTERIOR WALL FINISHES AND ACCENTS. *REFER TO LIFE SAFETY PLANS, SECTIONS & LEGENDS FOR F.R.R. *REFER TO ASSEMBLIES TYPE CODIFICATION FOR COMPOSITION								
TYPE		DESCRIPTION	THICK	PURPOSE	STC Rating	U.L.C. No.	FRR (HOUR)	Comments
CLT-175.R		CLT PANEL WALL: • 175mm CLT (5-PLY) GRADE SPF-V2 PANEL, SEE STRUCT. REFER TO DRAWINGS FOR FINISHED FACES	175 mm	PARTITION			1.5	MFRS, SPEC. MEETS THE MINIMUM 1.5H FIRE RESISTANCE RATING. ALL EXPOSED CLT EDGES AT OPENINGS SHOULD HAVE 45 DEGREE CHAMFER OR BEVELLED EDGE
CMU-140		INTERIOR CMU PARTITION: • 140mm CONCRETE BLOCK • FULL HEIGHT TO U/S STRUCTURE, U.N.O.	140 mm	PARTITION	40		1	INTUMESCENT PAINT ON HSS COLUMNS, ALL EXPOSED CMU CORNERS TO BE BULLNOSE
CMU-190		INTERIOR CMU PARTITION: • 190mm CONCRETE BLOCK • FULL HEIGHT TO U/S STRUCTURE, U.N.O.	190 mm	PARTITION				INTUMESCENT PAINT ON HSS COLUMNS, ALL EXPOSED CMU CORNERS TO BE BULLNOSE
S-92.1		INTERIOR PARTITION: • 16mm GYPSUM WALL BOARD • #22mm METAL STUD @ 610mm O.C. TO 6' ABOVE CEILING, WHERE NO CEILING TO U/S STRUCTURE	108 mm	PARTITION				
S-92.2.A		INTERIOR ACOUSTIC PARTITION: • 16mm GYPSUM WALL BOARD • #92mm METAL STUD @ 610mm O.C. • #92mm ACOUSTIC BATT INSULATION • 16mm GYPSUM WALL BOARD • FULL HEIGHT TO U/S STRUCTURE, U.N.O.	124 mm	PARTITION	50			
S-92.2.AR		INTERIOR ACOUSTIC PARTITION: • 16mm TYPE-X GYPSUM WALL BOARD • #92mm METAL STUD @ 610mm O.C. • #92mm ACOUSTIC BATT INSULATION • 16mm TYPE-X GYPSUM WALL BOARD • FULL HEIGHT TO U/S STRUCTURE, U.N.O.	124 mm	PARTITION	50	W453	1	
S-92.3		INTERIOR PARTITION: • 16mm GYPSUM WALL BOARD • #92mm METAL STUD @ 610mm O.C. • TWO LAYER 16mm GYPSUM WALL BOARD • FULL HEIGHT TO U/S STRUCTURE, U.N.O.	140 mm	PARTITION	40			
S-92.4.AR		INTERIOR PARTITION (2HR): • TWO LAYER 16mm TYPE-X GYPSUM WALL BOARD • #92mm METAL STUD @ 610mm O.C. • #92mm ACOUSTIC BATT INSULATION • TWO LAYER 16mm TYPE-X GYPSUM WALL BOARD • FULL HEIGHT TO U/S STRUCTURE, U.N.O.	156 mm	PARTITION	56	W453	2	
S-152.2.A		INTERIOR ACOUSTIC PARTITION: • 16mm GYPSUM WALL BOARD • 152mm METAL STUD @ 610mm O.C. • 152mm ACOUSTIC BATT INSULATION • 16mm GYPSUM WALL BOARD • FULL HEIGHT TO U/S STRUCTURE, U.N.O.	184 mm	PARTITION	59			
S-152.2.AR		INTERIOR ACOUSTIC PARTITION: • 16mm TYPE-X GYPSUM WALL BOARD • 152mm METAL STUD @ 610mm O.C. • 152mm ACOUSTIC BATT INSULATION • 16mm TYPE-X GYPSUM WALL BOARD • FULL HEIGHT TO U/S STRUCTURE, U.N.O.	184 mm	PARTITION	59	W453	1	

ROOF ASSEMBLIES		
TYPE	DESCRIPTION	REMARKS
RF-1	BALLASTED 2 PLY MOD-BIT ROOF (INSULATED): • PEA GRAVEL BALLAST • SEBS FLOOD COAT • 2 PLIES SEBS MEMBRANE • 125mm STONE WOOL INSULATION • 88mm POLYISO • TAPERED POLYISO TO ACHIEVE SLOPE • MOPPED VAPOUR BARRIER • 13mm GWB UNDERLAYMENT • CLT OR METAL ROOF DECK	MAIN ROOF
RF-2	2 PLY MOD-BIT ROOF (UN-INSULATED): • BASE AND CAP SHEET ON • 13mm FIBREBOARD ON • TAPERED POLYISO TO ACHIEVE SLOPE ON • PLYWOOD	CANOPY ROOF

FLOOR ASSEMBLIES			
TYPE	DESCRIPTION	R Value	THICK.
FL-1	CONC. SLAB ON 300mm COMPACTED FOAM GLASS GRANULAR INSULATION	20	<varies>
FL-2	CONC. SLAB ON 300mm COMPACTED FOAM GLASS GRANULAR INSULATION	20	130 mm
FL-3	COMPOSITE SLAB (CONC. ON METAL DECK)		90 mm

CEILING ASSEMBLIES				
TYPE	Type Image	DESCRIPTION	FRR (HOUR)	REMARKS
C-1		SUSPENDED GYPSUM CEILING		SUSPENDED
C-1.R		2 LAYER TYPE 'X' GYPSUM WALL BOARD CEILING AS PER OBC SB-2.2.3.12	1	SUSPENDED
C-2		ACOUSTIC TILE CEILING, 610x610		SUSPENDED
C-3		SALVAGED WOOD PLANK		SUSPENDED

ASSEMBLIES TYPE CODIFICATION

- EXTERIOR WALLS-ENVELOPE**
 - EW-1.a: VARIATION FROM TYPE, TYPE, EXTERIOR WALL
- INTERIOR WALLS-FURRING-FINISHES-ACCENT**
 - S-92.2.A.a: VARIATION FROM TYPE, PROPERTIES-PURPOSE, No. COVERING LAYERS, STUD WIDTH (mm), STUD TYPE
 - F-41.1.a: No. COVERING LAYERS, STUD WIDTH (mm), STUD TYPE
 - WT-1: TYPE, TILE
- ROOFS**
 - RF-1.a: VARIATION, TYPE, ROOF

ROOFS		PROPERTIES-PURPOSE	
ABV.	CODE	ABV.	CODE
RF	ROOF		
- FLOORS**
 - FL-1.a: VARIATION, TYPE, FLOOR

FLOORS		PROPERTIES-PURPOSE	
ABV.	CODE	ABV.	CODE
FL	FLOOR		
- ROOF SOFFITS**
 - RS-1.a: VARIATION, TYPE, ROOF SOFFIT

ROOF SOFFITS		PROPERTIES-PURPOSE	
ABV.	CODE	ABV.	CODE
RS	ROOF SOFIT		

NOTES - DEFINITIONS:

- TYPE** - SEQUENTIAL NUMBER FOR ASSEMBLY TYPE
- STUD WIDTH** - STANDARD STUD DIMENSIONS OF SPECIFIED COMPONENT
- VARIATION** - SIMILAR ASSEMBLIES TYPE / COMPONENTS EXCEPT CHANGE IN COLOUR OR FINISHES. SUCH AS: (a, b, c)
 - MATERIAL COLOUR OR PROFILES
 - FACE BRICK COLOUR OR UNIT MODULE
 - GRADE OF COMPONENT.
 - WALL HEIGHT
- No. OF COVERING LAYERS** - DEFINES LAYERS OF SAME COMPONENT OR FINISH
- FULL DESCRIPTIONS OF ASSEMBLIES OUTLINED IN ASSEMBLIES SHEET IN DRAWING SET.

WALLS		PROPERTIES-PURPOSE	
ABV.	CODE	ABV.	CODE
EW	EXT. WALL	A	ACOUSTIC
CW	CURTAINWALL	R	RATED
FW	FNDN WALL	D	DEMISING
UP	UPSTAND	S	SPECIALTY
S	ST. STUD	T	THERMAL
W	WD. STUD	SM	SMOKE
F	FURRING		
CMU	MASONRY UNIT		
WT	WALL TILE		
RW	RET. WALL		
LW	LSCAPE WALL		
CIP	CAST IN PLACE		
CLT	CROSS LAM		
	TIMBER		

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FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

BUILDING ASSEMBLIES

G-004

UNDERGROUND SERVICES

SEWERS:

	PROPOSED SANITARY SEWER MAIN AND MANHOLE
	EXISTING SANITARY SEWER MAIN AND MANHOLE
	PROPOSED STORM SEWER MAIN AND MANHOLE
	EXISTING STORM SEWER MAIN AND MANHOLE
	PROPOSED CATCH BASIN MANHOLE
	PROPOSED DOUBLE CATCH BASIN MANHOLE
	PROPOSED CATCH BASIN
	PROPOSED DOUBLE CATCH BASIN
	EXISTING CATCH BASIN MANHOLE
	EXISTING DOUBLE CATCH BASIN MANHOLE
	EXISTING CATCH BASIN
	EXISTING DOUBLE CATCH BASIN
	EXISTING DITCH INLET CATCH BASIN

WATER:

	PROPOSED WATER MAIN AND VALVE CHAMBER
	EXISTING WATER MAIN AND VALVE CHAMBER
	PROPOSED HYDRANT SET
	EXISTING HYDRANT SET
	PROPOSED WATER VALVE
	EXISTING WATER VALVE
	CURB STOP VALVE
	LAWN SPRINKLER HEAD
	MONITORING WELL

NATURAL GAS:

	EXISTING GAS MAIN
	EXISTING GAS VALVE
	EXISTING VENT PIPE

LEGEND

	EXISTING RETAINING WALL
	EXISTING FENCE
	CONCRETE SIDEWALK
	CONCRETE BARRIER CURB (OPSD 600.110)
	CONCRETE CURB AND GUTTER (OPSD 600.040)
	RESIDENTIAL DRIVEWAY ENTRANCES / DROP CURB
	COMMERCIAL / INDUSTRIAL REINFORCED DROP CURB
	PROPOSED CONCRETE
	PROPOSED HEAVY DUTY ASPHALT
	PROPOSED LIGHT DUTY ASPHALT
	PROPOSED GRAVEL

LEGAL AND CONTROL SYMBOLS:

	IRON BAR
	ROUND IRON BAR
	IRON PIPE
	CUT CROSS
	HORIZONTAL CONTROL MONUMENT
	VERTICAL CONTROL MONUMENT
	TEMPORARY BENCHMARK
	BENCHMARK
	STATION CHAINAGE

UTILITIES:

ELECTRICAL:

	HYDRO POLE
	HYDRO POLE LIGHT STANDARD
	HYDRO POLE LIGHT STANDARD WITH TRANSFORMER
	LIGHT STANDARD
	TRAFFIC SIGNAL POLE
	HANDWELL
	GUY ANCHOR
	DIRECT BURIED ELECTRICAL DUCT/CABLE
	CONCRETE ENCASED ELECTRICAL DUCT

TELECOMMUNICATIONS:

	BELL HYDRO POLE
	BELL POLE
	BELL ROGERS POLE
	PEDESTAL
	DIRECT BURIED TELECOMM DUCT/CABLE
	DIRECT BURIED TELECOMM DUCT

SIGNAGE:

	RAIL ROAD SIGN
	MK
	ROAD SIGN
	DISPLAY BOARD SIGN
	WAYFINDING SIGN

VEGETATION:

	HEDGE
	TREE CONIFEROUS
	SHRUB CONIFEROUS
	TREE DECIDUOUS
	SHRUB DECIDUOUS
	STUMP

MISCELLANEOUS:

	BOREHOLE
	TEST PIT
	WATER DATUM LINE
	POST
	PARKING METER
	MAILBOX
	BOULDER / ROCK
	BOLLARD
	PILLAR
	POLE
	TRASH CAN
	OVERHEAD DOOR
	MAN DOOR
	ACCESSIBLE MAN DOOR
	OVERLAND FLOW ROUTE
	100-YEAR PONDING LIMIT

GENERAL:

- ALL CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH:
 - CITY OF PETERBOROUGH DESIGN STANDARDS
 - ONTARIO PROVINCIAL STANDARD DRAWINGS & SPECIFICATIONS
 - APPLICABLE CONTRACT DOCUMENTS AND ALL SPECIFICATIONS REFERENCED HEREIN.
- THE CONTRACTOR SHALL RESTORE ALL WORK IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT, HEALTH AND SAFETY REGULATIONS FOR CONSTRUCTION PROJECTS.
- THE CONTRACTOR SHALL RESTORE OR REPLACE DAMAGED SERVICES TO EXISTING OR BETTER CONDITION.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EXISTING OR BETTER CONDITION, OR PER THE ENGINEERING AND LANDSCAPE SPECIFICATIONS REFERENCED HEREIN.
- THE CONTRACTOR SHALL COORDINATE AND PAY FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES IN ACCORDANCE WITH THE ONTARIO TRAFFIC MANUAL, BOOK 7, TEMPORARY CONDITIONS.
- THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIALS IN ACCORDANCE WITH THE MINISTRY OF THE ENVIRONMENT GUIDELINES AND LOCAL MUNICIPAL BYLAWS.
- WHERE UTILITIES, SEWERS, WATERMAIN AND OTHER UNDERGROUND INFRASTRUCTURE ARE SHOWN ON THE CONTRACT DRAWINGS, THEIR LOCATION IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND SERVICES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO COMPLETE THE WORK INCLUDING ROAD OCCUPANCY PERMITS, ROAD CUT PERMITS, OCCUPANCY PERMITS, ENCROACHMENT AGREEMENTS.
- ANY UTILITY POLES THAT MAY BE UNDERMINED BY THE CONSTRUCTION ACTIVITY ARE TO BE BRACED. THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS TO HAVE THE POLES BRACED IN ACCORDANCE WITH THE APPROPRIATE UTILITY REQUIREMENTS. THE COST FOR THIS WORK IS INCLUDED IN THE UNIT PRICES FOR THE WORK ITEMS AFFECTED.
- ALL EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED ON THE CONTRACT DRAWINGS ARE TO BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
- ACCESS TO ADJACENT PRIVATE PROPERTIES SURROUNDING THE CONSTRUCTION SITE SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY ACCESS RESTRICTIONS WILL ONLY BE PERMITTED WHERE REQUIRED TO FACILITATE UNDERGROUND SERVICING, ASPHALT AND CONCRETE PLACEMENT. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE TOWN AND THE AFFECTED PROPERTY OWNERS PRIOR TO ACCESS INTERRUPTION.
- ALL PROPERTY BARS DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT THE CONCLUSION OF THE CONTRACT, AT THEIR EXPENSE.
- ALL MANHOLE AND CATCHBASIN FRAMES AND GRATES WITHIN THE TRAVELED PORTION OF THE ROAD SHALL BE SET TO BASE ASPHALT ELEVATION AND RAISED PRIOR TO PLACEMENT OF SURFACE ASPHALT.
- ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- EXISTING SIGNAGE WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND SALVAGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND REINSTALLED UPON COMPLETION. REGULATORY SIGNAGE SHALL REMAIN IN PLACE AT ALL TIMES.
- ALL COSTS IN RELATION TO THE RESTORATION OF THE RIGHT OF WAY SHALL BE THAT OF THE GENERAL CONTRACTOR.
- RESPECTING ALL WORK IN THE MUNICIPAL RIGHT OF WAY, THE CONTRACTOR IS TO CONTACT THE MANAGER OF ROADS 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORKS.
- ALL AREAS WITHIN THE MUNICIPAL RIGHT OF WAY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE CITY.

SEWER:

- THE CONTRACTOR SHALL INSTALL CONCRETE CATCHBASIN MANHOLES COMPLETE WITH FRAME, GRATE AS PER OPSD 701.010 AND 401.081 RESPECTIVELY UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL CONCRETE MANHOLES COMPLETE WITH FRAME, GRATE AS PER OPSD 701.010, AND 401.010 UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL CONCRETE CATCHBASINS COMPLETE WITH FRAME, GRATE AS PER OPSD 705.010 AND 401.081 RESPECTIVELY UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL CONCRETE DOUBLE CATCHBASIN MANHOLES COMPLETE WITH FRAME, GRATE AS PER OPSD 701.020 AND 401.081 RESPECTIVELY UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- THE CONTRACTOR SHALL PERFORM LEAK AND DEFLECTION TESTING ON ALL STORM AND SANITARY SEWERS IN ACCORDANCE WITH CONTRACT DOCUMENTS AND OPSS 410 RESPECTIVELY.
- THE CONTRACTOR SHALL CLEAN AND PERFORM CCTV INSPECTION ON ALL STORM AND SANITARY SEWERS IN ACCORDANCE WITH CONTRACT DOCUMENTS AND OPSS 409 RESPECTIVELY.
- THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE ENGINEER PRIOR TO CONDUCTING PIPE LEAK AND DEFLECTION TESTING, CCTV INSPECTIONS AND/OR CLEANING OF THE STORM SEWER.
- PIPE BEDDING, COVER AND BACKFILL SHALL BE IN ACCORDANCE WITH THE OPSD 802.010 FOR FLEXIBLE PIPE AND OPSD 802.030 FOR CONCRETE PIPE. BEDDING AND COVER SHALL BE GRANULAR 'A' COMPACTED TO 100% SPDD; BACKFILL SHALL BE APPROVED NATIVE MATERIAL OR GRANULAR 'B', COMPACTED TO 100% SPDD.
- ALL STORM AND SANITARY MANHOLES SHALL BE BENCHED IN ACCORDANCE WITH OPSD 701.021.
- ALL CATCH BASIN MANHOLES AND STORM MANHOLES TO HAVE 0.3m SUMP
- THE CONTRACTOR SHALL INSTALL STORM SERVICE CONNECTIONS IN ACCORDANCE WITH OPSD 1006.010.

ASPHALT, SIDEWALKS, AND CURB

- ALL CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PER CP351.02 AND CPD 351.01.
- ALL CONCRETE CURB SHALL BE RESTORED AS PER CP353.01 AND CPD 405.01.
- ROAD SUBGRADE AND PARKING AREAS SHALL BE COMPACTED TO 98% SPMD. SUBGRADE SHALL BE PROOF-ROLLED PRIOR TO PLACEMENT OF GRANULAR MATERIAL.
- PAVEMENT STRUCTURE SHALL CONSIST OF THE FOLLOWING:

ROAD RESTORATION

THE PAVEMENT STRUCTURE WITHIN MARINA BOULEVARD SHALL CONFORM TO TABLE C.1 OF CITY OF PETERBOROUGH ENGINEERING DESIGN STANDARDS 2022.

HEAVY DUTY PARKING LOT

40mm HL3 OR HL4
 90mm HL8 (2 LIFTS)
 150mm GRAN 'A'
 350mm GRAN 'B'

LIGHT DUTY PARKING LOT

40mm HL3 OR HL4
 50mm HL8
 150mm GRAN 'A'
 350mm GRAN 'B'

WATERMAIN:

- THE CONTRACTOR SHALL PROVIDE 48HR NOTICE TO THE CONTRACT ADMINISTRATOR PRIOR TO COMMENCING WATERMAIN CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL TRACER WIRE ON ALL NEW PVC WATERMAIN.
- THE CONTRACTOR SHALL INSTALL CATHODIC PROTECTION AS PER OPSD 1109.0110.
- THE CONTRACTOR SHALL INSTALL RETAINING GLAND RINGS ON ALL WATERMAIN FITTINGS AND CONNECTIONS WHERE THRUST BLOCKS CANNOT BE CONSTRUCTED ON SOLID GROUND.
- THE CONTRACTOR SHALL INSTALL BEDDING AND BACKFILL AS PER OPSD 802.010.
- THE CONTRACTOR SHALL INSTALL ALL WATERMAIN AND SERVICES AT A MINIMUM DEPTH OF 1.85 METRES FROM THE PROPOSED FINISH GRADE TO THE TOP OF PIPE.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER OF 0.50 METRES BELOW OR 0.15 METRES ABOVE.
- THE CONTRACTOR SHALL INSTALL WATER SERVICES AS PER OPSD 1104.0100, AND AT RIGHT ANGLES TO THE WATERMAIN WHERE POSSIBLE.
- THE CONTRACTOR SHALL INSTALL THRUST BLOCKS FOR VERTICAL BENDS AS PER OPSD 1103.020. THE CONTRACTOR SHALL INSTALL THRUST BLOCKS FOR HORIZONTAL BENDS AS PER OPSD 1103.010.
- THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE CONTRACT ADMINISTRATOR PRIOR TO CONDUCTING WATERMAIN TESTING.
- THE CONTRACTOR SHALL PROVIDE ALL WATERMAIN TESTING RESULTS (INCLUDING CHLORINATION, BACTERIOLOGICAL, PRESSURE AND FLOW) IN ACCORDANCE WITH REGION SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE 2 COPIES OF ALL TEST RESULTS.
- ONLY REPRESENTATIVES FROM THE PUC ARE AUTHORIZED TO OPERATE WATER VALVES WITHIN THE CITY OF PETERBOROUGH.

Consultant:



ISSUE / REVISIONS

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CONSTRUCTION DOCUMENTATION

PROJECT No. 21-100
 START DATE OCT.27.2021

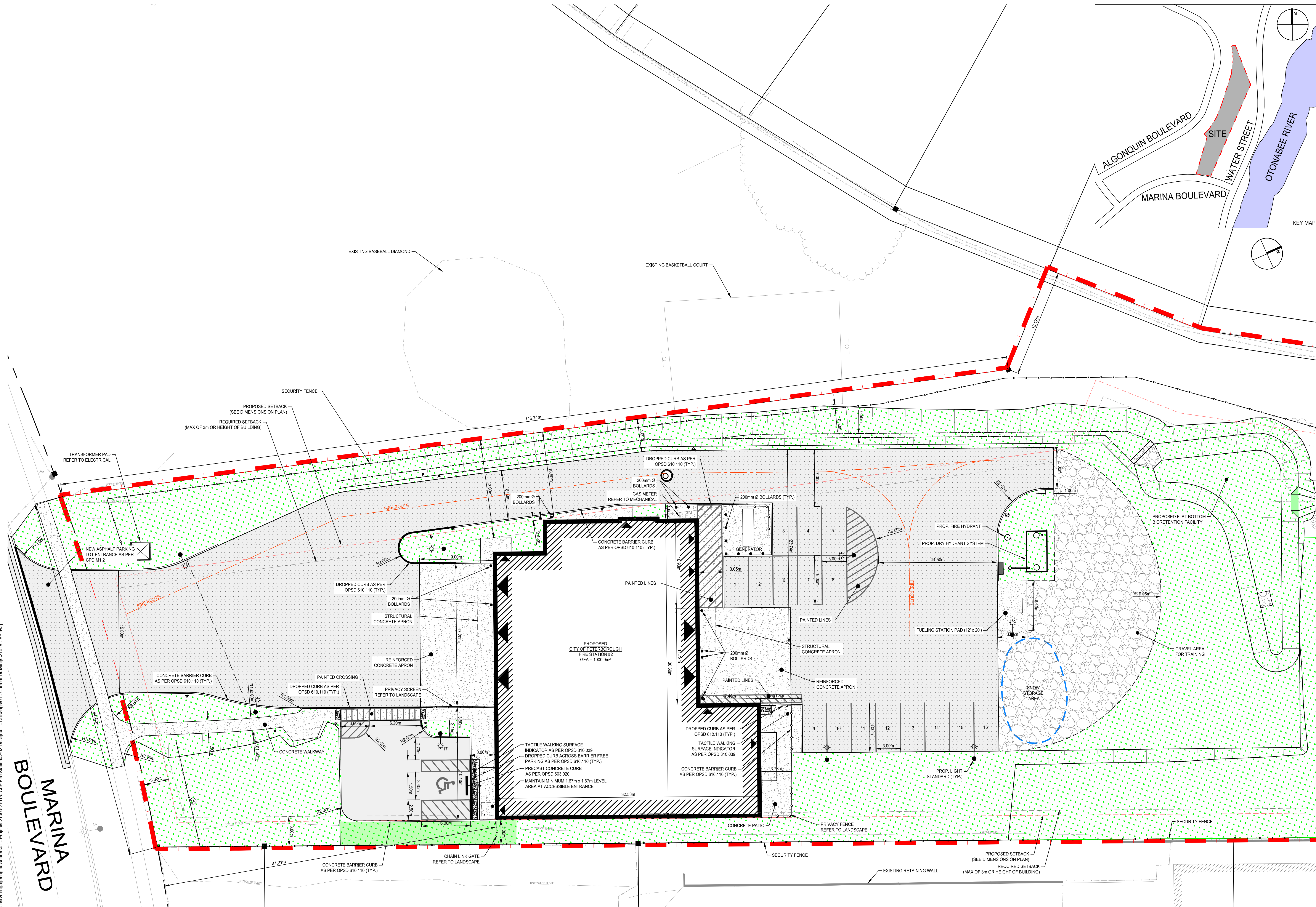
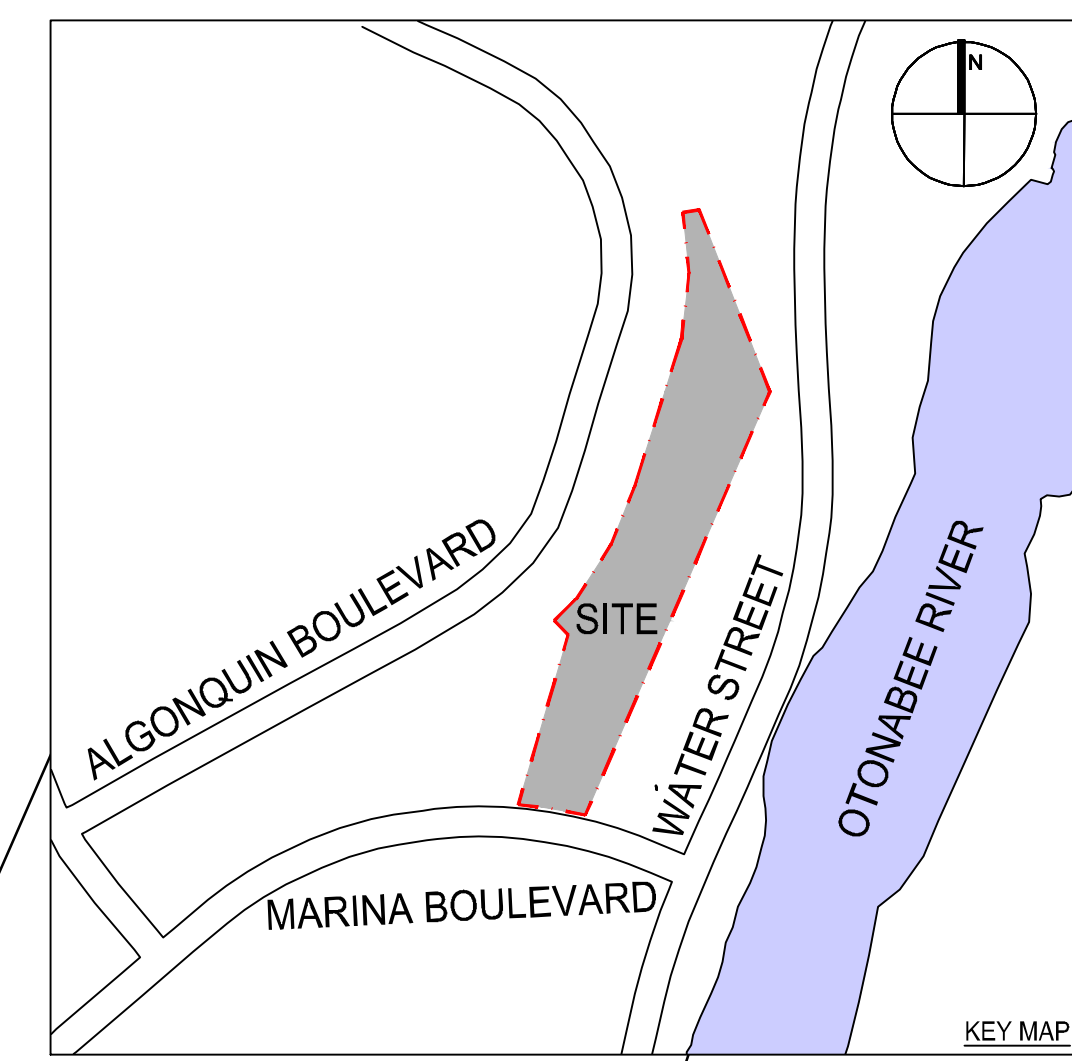
CITY OF PETERBOROUGH

FIRE STATION NO. 2

(Municipal File No. SPC 1009)
 100 Marina Boulevard, Peterborough ON

STANDARD NOTES AND LEGEND

C1



LEGEND

[Pattern]	LIGHT DUTY ASPHALT
[Pattern]	HEAVY DUTY ASPHALT
[Pattern]	CONCRETE

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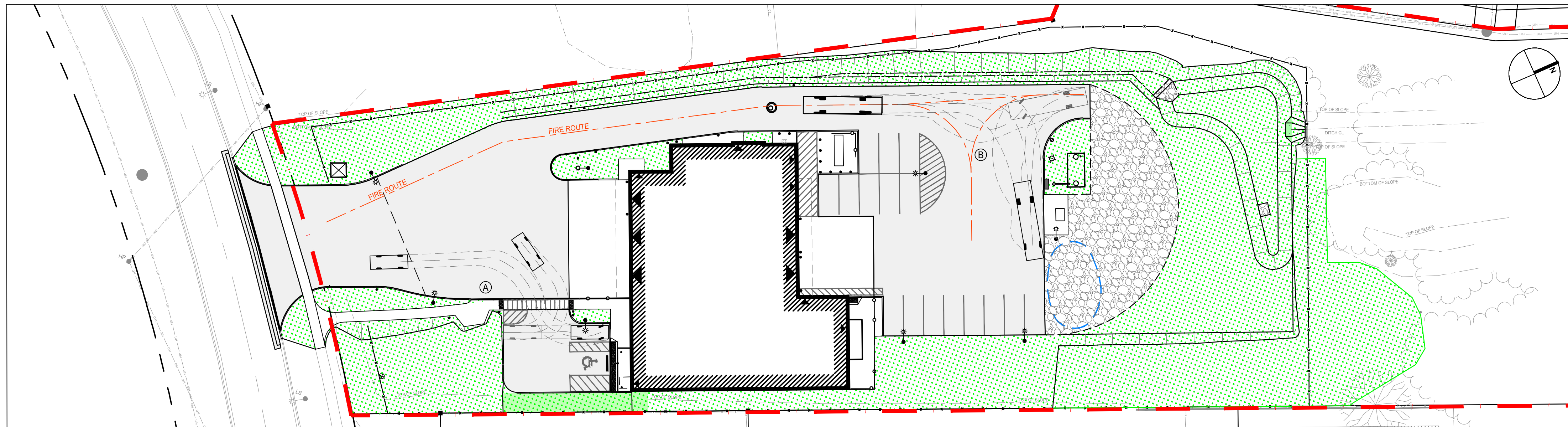
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PROJECT No. 21-100
START DATE OCT. 27. 2021

CITY OF PETERBOROUGH
FIRE STATION NO. 2

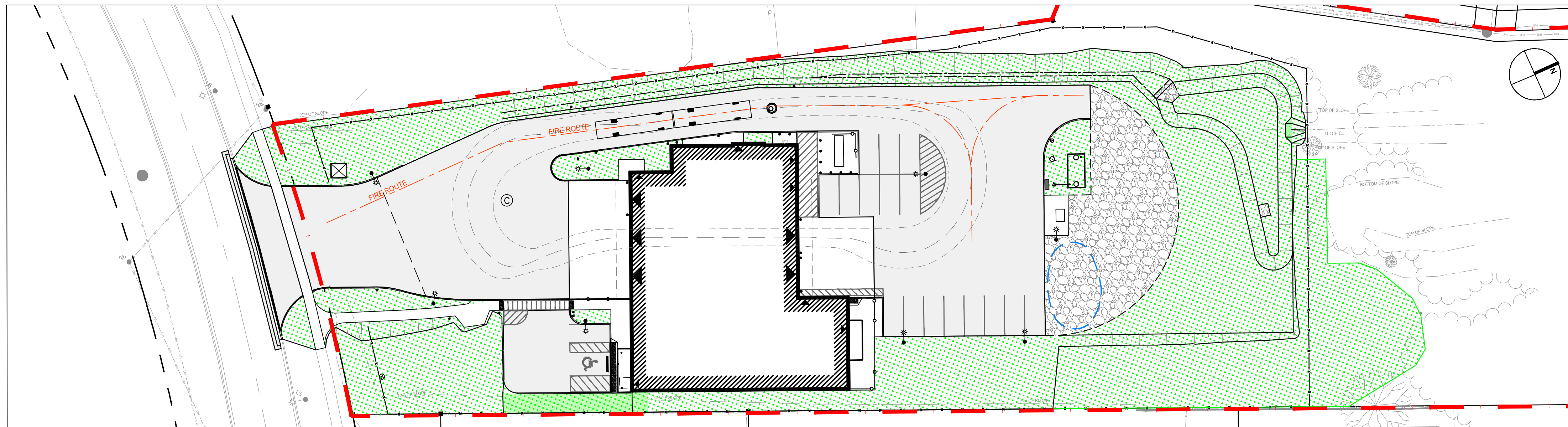
(Municipal File No. SPC 1009)
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SITE PLAN

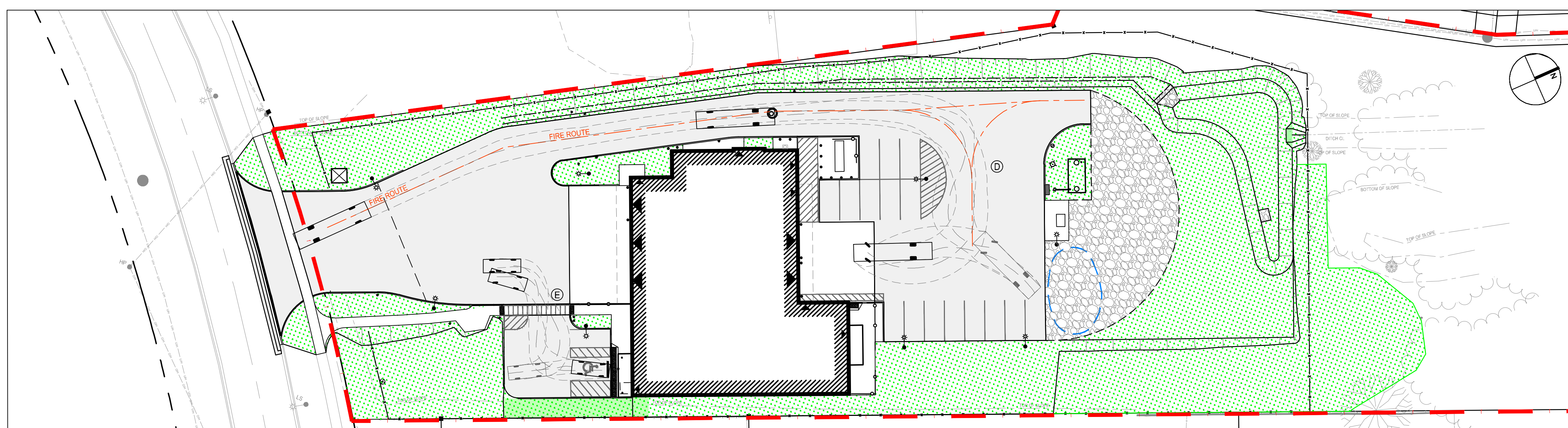
C2



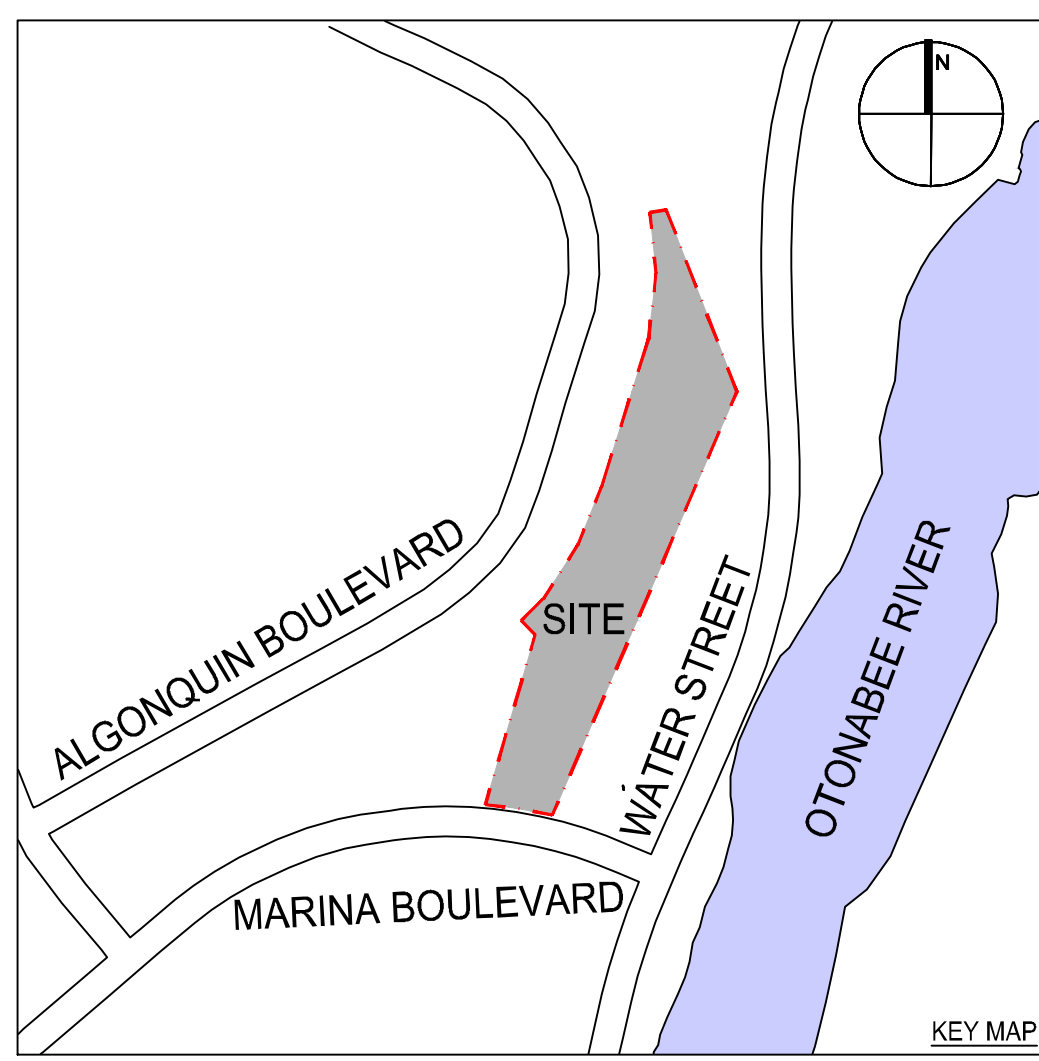
VISITOR PARKING TURNING PATH AND FIRE APPARATUS FUEL PAD ACCESS
SCALE: 1:400



FIRE APPARATUS CIRCULATION
SCALE: 1:400



FIRE ACCESS ROUTE DESIGN AND ACCESSIBLE VISITOR PARKING TURNING PATH
SCALE: 1:400



KEY MAP

VEHICLE PATHS	
PATH	NOTE
	VISITOR PARKING SPACE IS PROVIDED WITH ADEQUATE TURNAROUND FACILITIES
A	11.7m APPARATUS IS PROVIDED WITH ACCESS TO FUEL PAD AND ADEQUATE TURNAROUND FACILITIES
B	11.7m APPARATUS IS PROVIDED WITH ADEQUATE SPACE TO CIRCULATE THROUGH FIRE STATION
C	ACCESS ROUTE EXCEEDS 90m; ADEQUATE TURNAROUND FACILITIES HAVE BEEN PROVIDED FOR 11.7m APPARATUS
D	ACCESSIBLE VISITOR PARKING SPACE IS PROVIDED WITH ADEQUATE TURNAROUND FACILITIES
E	

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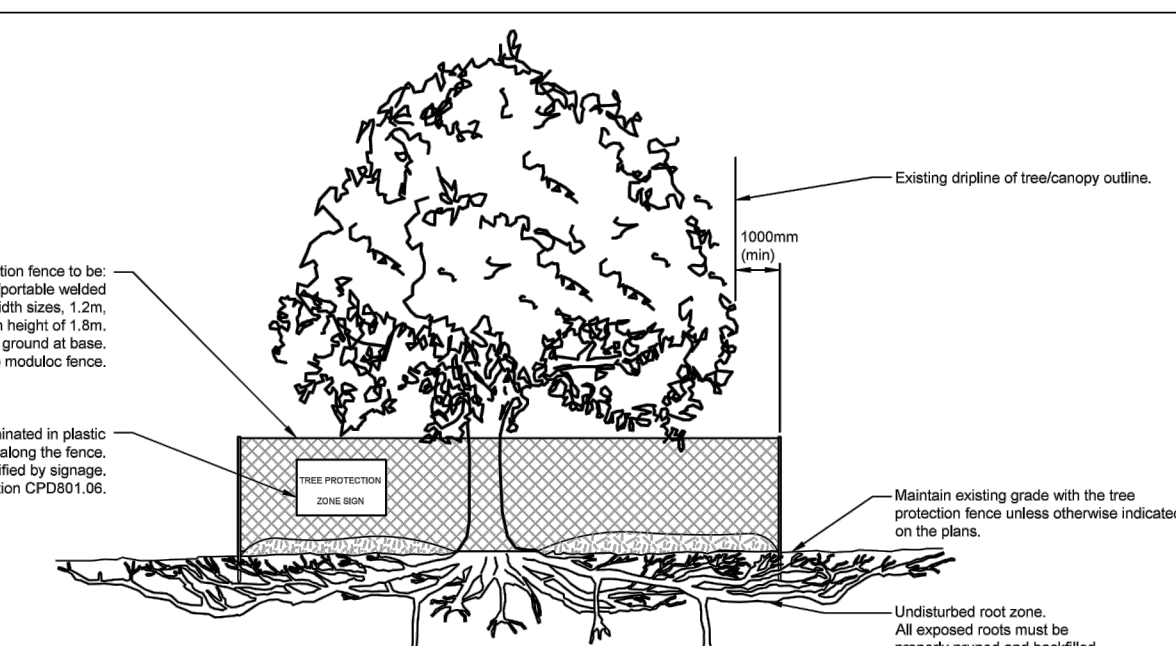
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CITY OF PETERBOROUGH
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON

VEHICLE TURNING PATHS

C3



Tree protection fence to be constructed using temporary portable welded metal fence panels in various widths, 1.2m, 1.8m & 2.4m wide and a minimum height of 1.8m. Fence to be anchored to ground at base. Fence to be equivalent to modular fence.

400mm x 400mm egg keratinized in plastic spaced every 15m or less along the fence. TPZ to be clearly defined by signage. Refer to specification CPD 801.05.

Existing drip line of tree canopy outline.

Maintain existing grade with the tree protection fence unless otherwise indicated on the plans.

Undisturbed root zone. All exposed roots must be properly pruned and backfilled.

Notes:

- Tree protection measures should be determined in consultation with the city. The area within the drip line of all existing trees shall be properly protected.
- Consultation activities, grade changes and storage of equipment and materials are not allowed within the tree protection zone.
- No pruning shall be performed except by approved arborist.
- See site preparation plan for any modifications with the tree protection area.
- Tree protection measures shall remain until the completion of fine grading and sodding or seeding.

Tree Protection Zones (TPZ)		
Diameter of Trunk @ 1.4m above grade (DBH)	Optimal Tree Protection Zone Distance	Minimum Tree Protection Zone Distance from Trunk (TPZ)
1-10 cm	1.2 m	1.2 m
10-20 cm	1.8 m	1.8 m
20-40 cm	2.4 m	2.4 m
41-60 cm	3.0 m	3.0 m
61-80 cm	3.6 m	3.6 m
81-100 cm	4.2 m	4.2 m
101-120 cm	4.8 m	4.8 m
121-140 cm	5.4 m	5.4 m
141-160 cm	6.0 m	6.0 m

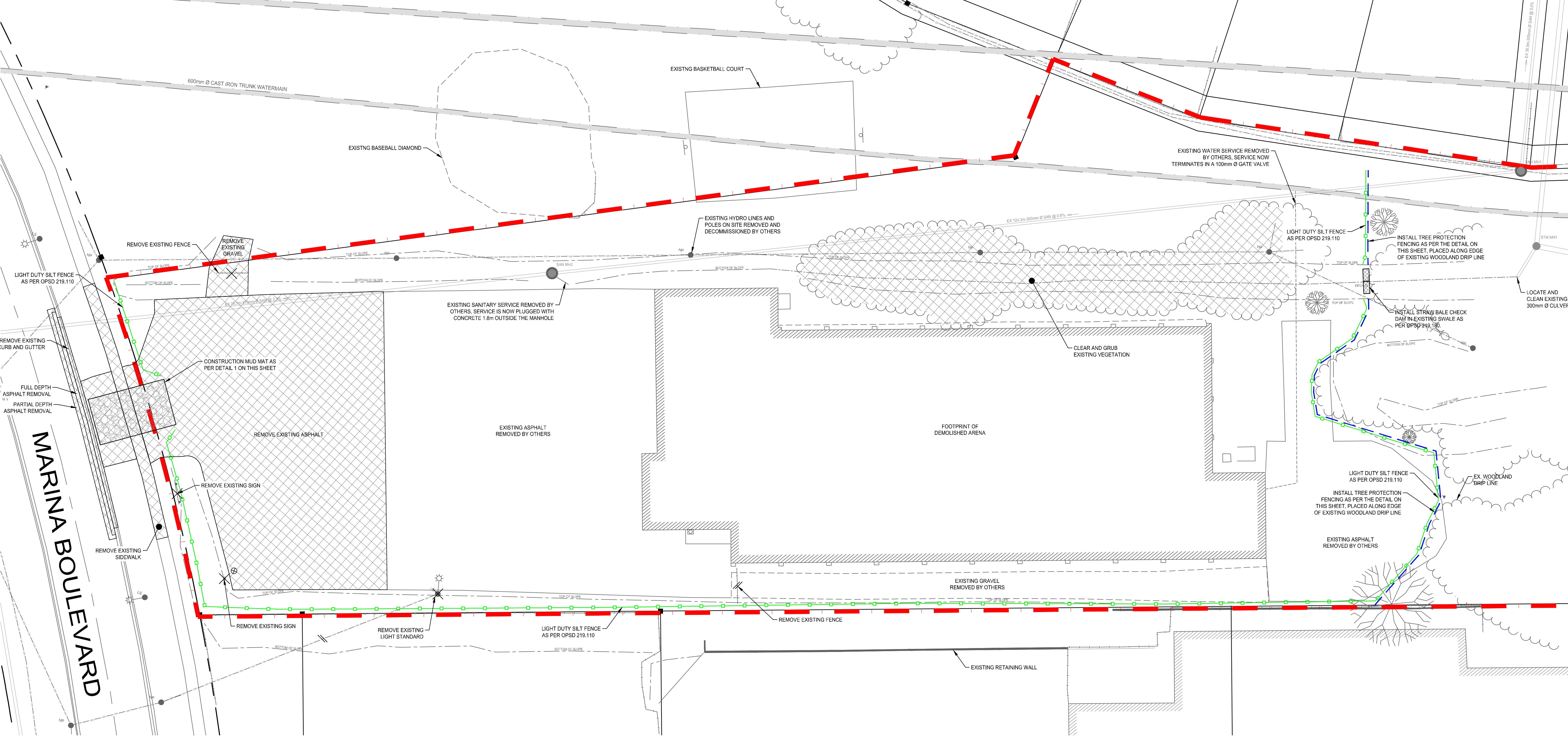
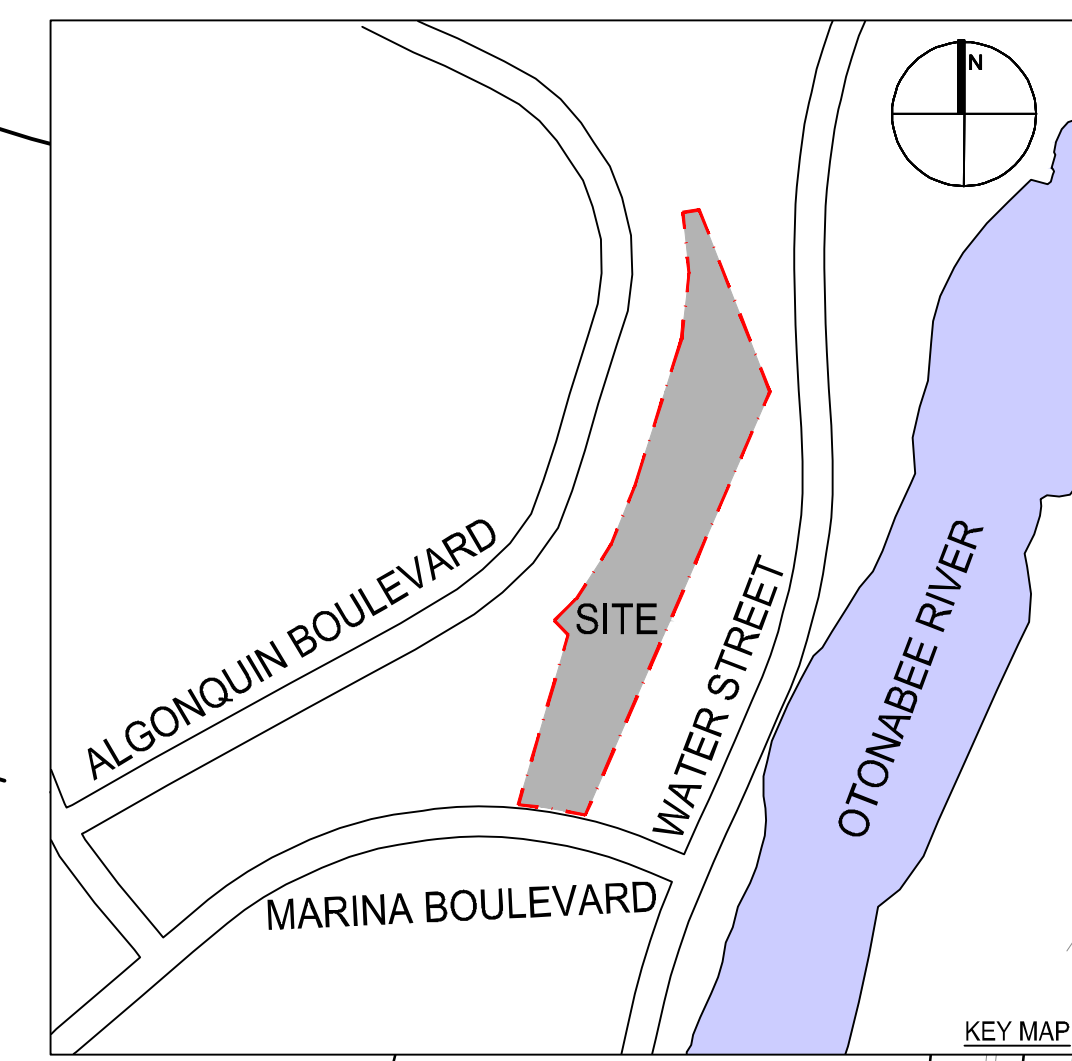
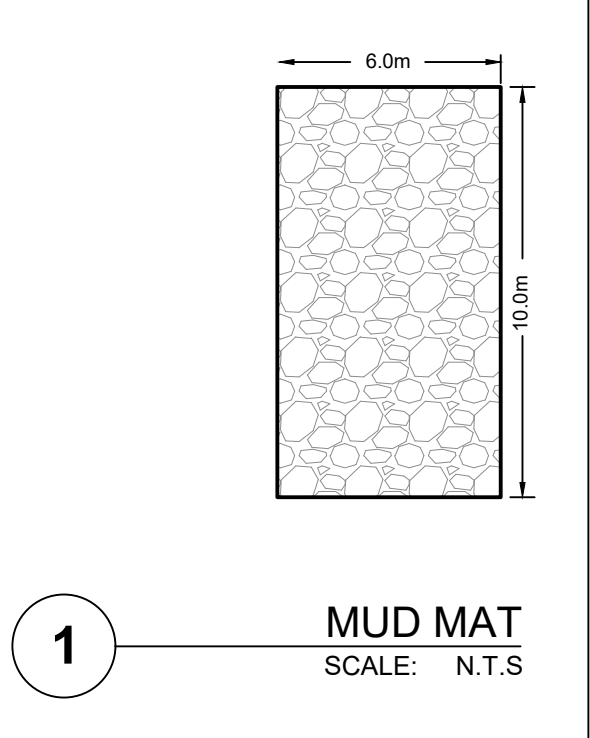
Drip line plus 1 metre. Unless otherwise agreed with the City.

Tree Protection Zone (TPZ) Fence Detail
 CITY OF PETERBOROUGH

JAN 2022
 DATE
 VARIOUS
 DRAWN BY

CPD 801.05
 DRAWING NUMBER
 0
 REVISION NUMBER

- REMOVALS AND EROSION CONTROL NOTES:**
- ANY REMOVAL OF VEGETATION SHALL OCCUR OUTSIDE OF THE BREEDING BIRD SEASON WHICH INCLUDES THE PERIOD FROM APRIL 15 TO AUGUST 15.
 - EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO MAY 15TH.
 - THE PROPOSED WORKS SHALL BE CARRIED OUT IN SUCH A MANNER THAT A MINIMUM AMOUNT OF EROSION OCCURS AND SUCH THAT SEDIMENTATION FACILITIES CONTROL ANY EROSION THAT DOES OCCUR.
 - ALL TEMPORARY SILTATION CONTROL DEVICES ARE TO BE CONSTRUCTED BEFORE CONSTRUCTION STARTS AND MAINTAINED FOR THE DURATION OF CONSTRUCTION UNTIL REMOVAL.
 - SEDIMENT ACCUMULATION OF MORE THAN 0.3 METRES IS TO BE REMOVED IMMEDIATELY.
 - INSPECT SILT FENCING AFTER EVERY SIGNIFICANT RAINFALL EVENT AND MAINTAIN AS REQUIRED, OR AT THE DIRECTION OF THE ENGINEER.
 - ADDITIONAL EROSION AND SEDIMENT CONTROL MATERIALS (SILT FENCE, CLEAR STONE, ETC.) ARE TO BE KEPT ON SITE FOR EMERGENCIES AND REPAIRS.
 - EROSION AND SEDIMENT CONTROL METHODS ARE TO BE CONTINUOUSLY EVALUATED AND UPGRADES ARE TO BE IMPLEMENTED, WHEN NECESSARY.
 - ENSURE THAT APPROPRIATE RESPONSE IS TAKEN FOR SPILLS AND ANY INCIDENTS ARE PROPERLY DOCUMENTED AND REPORTED.
 - AT THE COMPLETION OF CONSTRUCTION, ANY EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE.
 - REMOVE SILT FENCE, MUD MAT AND ANY OTHER EROSION/SILTATION CONTROL MEASURES ONCE ALL CONSTRUCTION HAS BEEN COMPLETED AND ALL VEGETATION HAS BEEN ESTABLISHED AND AT THE DIRECTION OF THE ENGINEER.



LEGEND

- REMOVALS
- REMOVALS
- SILT FENCE
- TREE PROTECTION FENCE
- ROCK CHECK DAM
- STRAW BALE CHECK DAM
- RIP-RAP
- MUD MAT

NOT FOR CONSTRUCTION

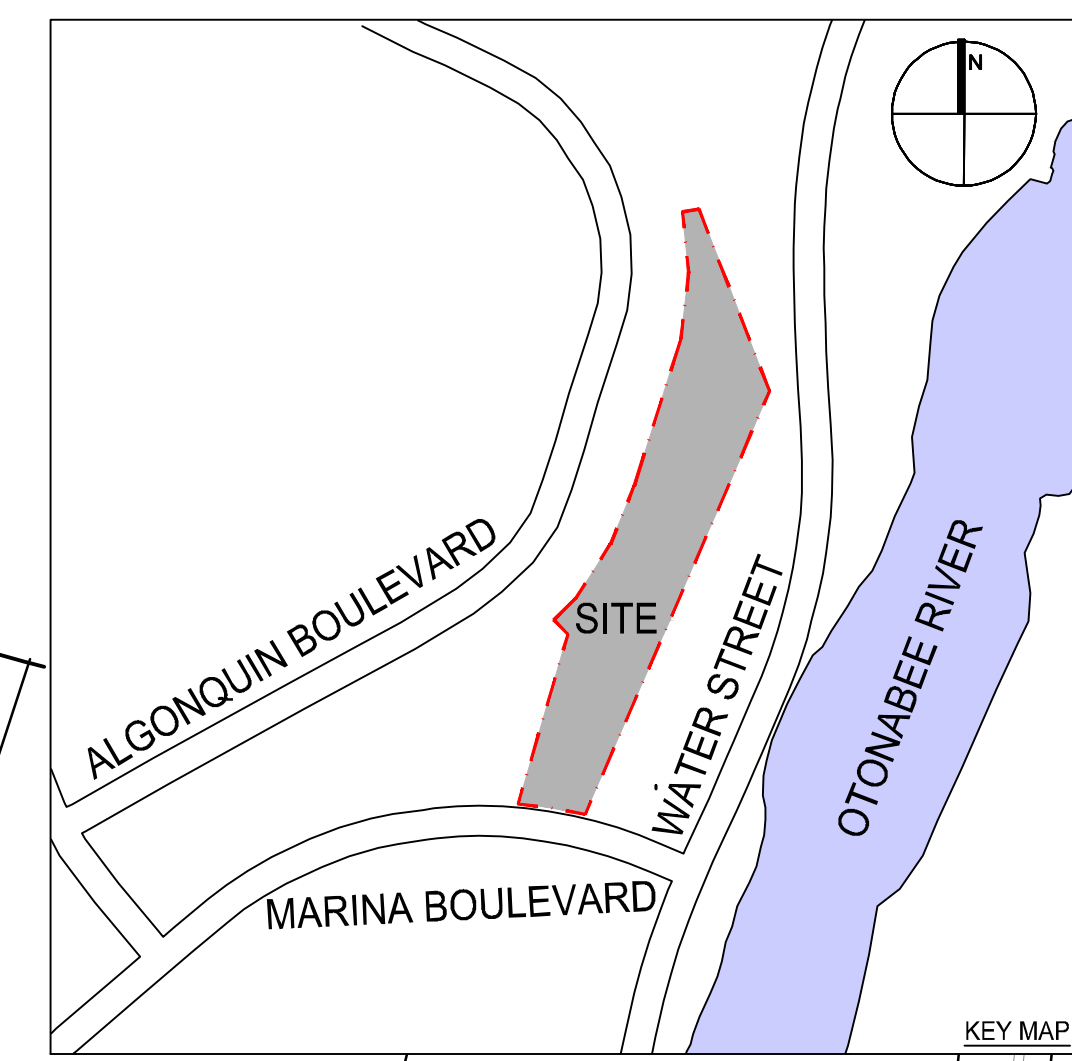
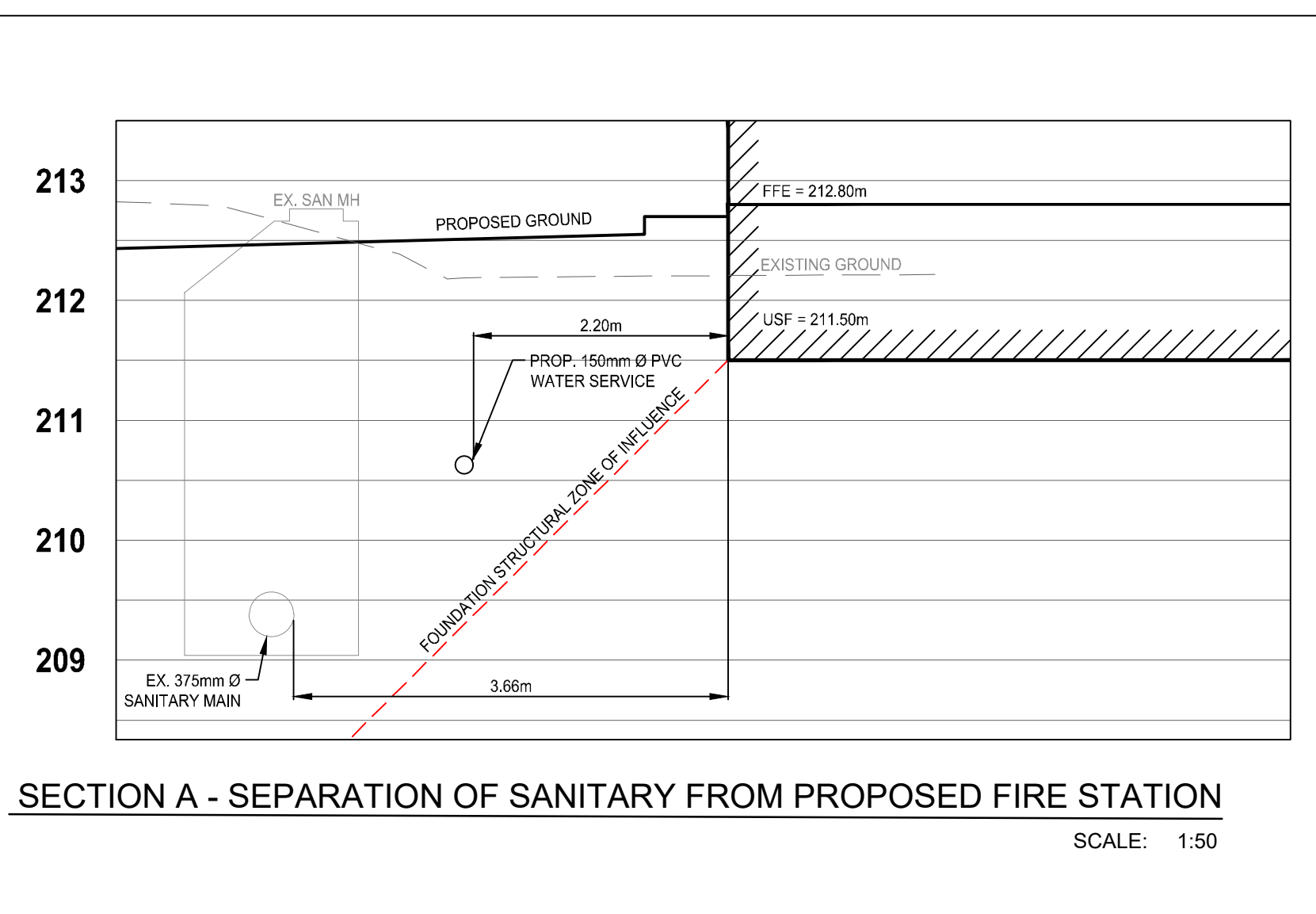
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CITY OF PETERBOROUGH
FIRE STATION NO. 2

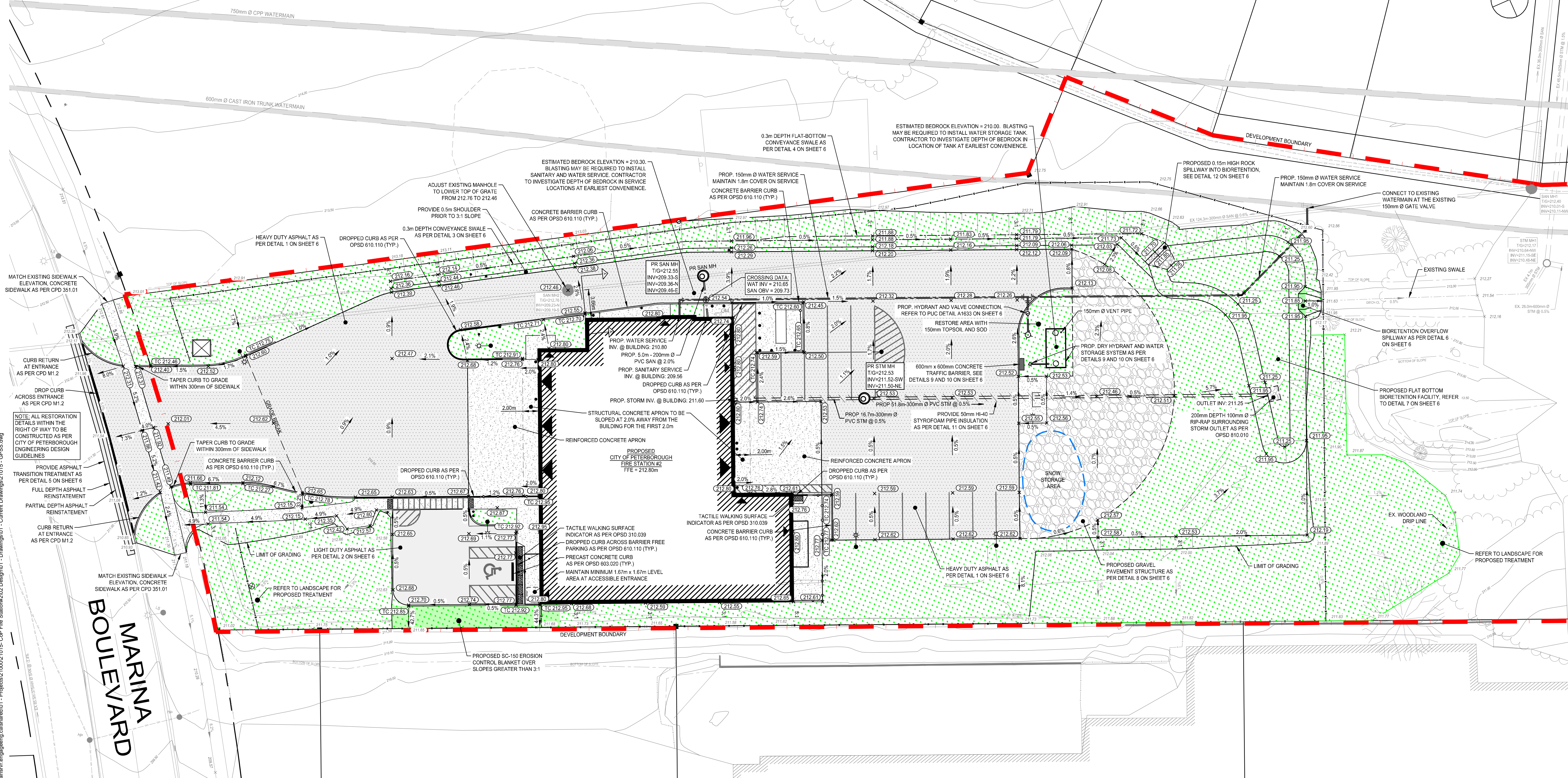
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REMOVALS AND EROSION & SEDIMENT CONTROL PLAN



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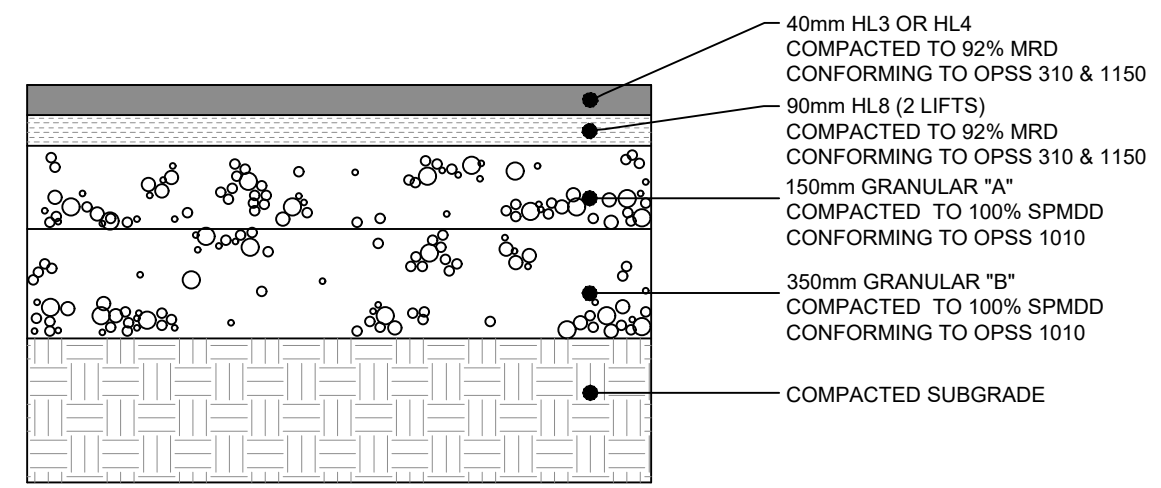
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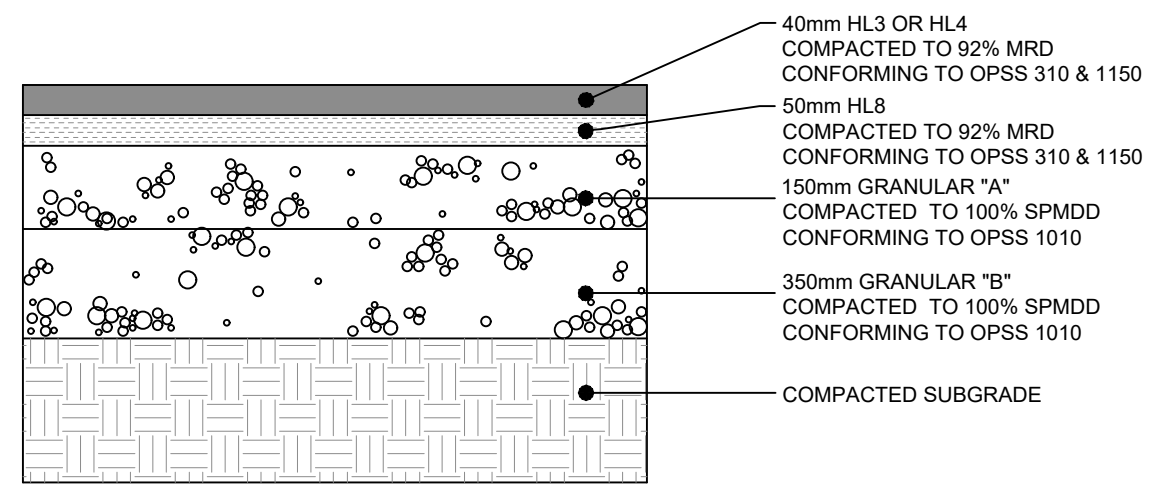
GRADING AND SERVICING PLAN

C5



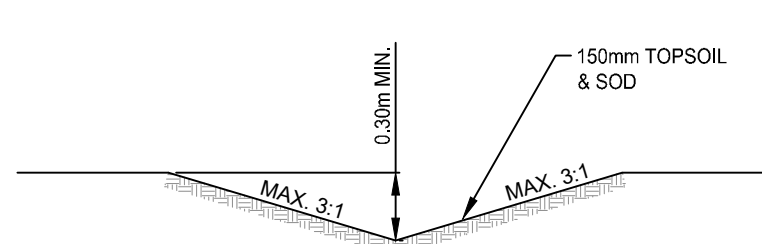
NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

1 HEAVY DUTY PAVEMENT STRUCTURE
SCALE: N.T.S.

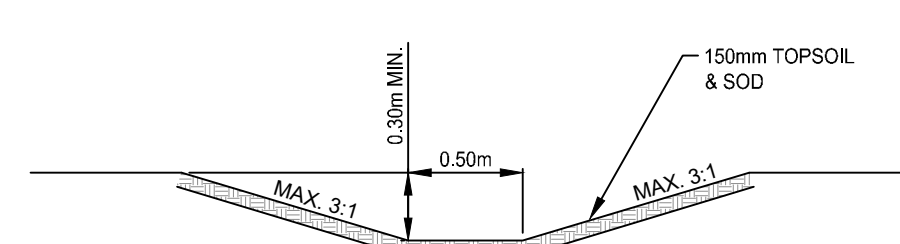


NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

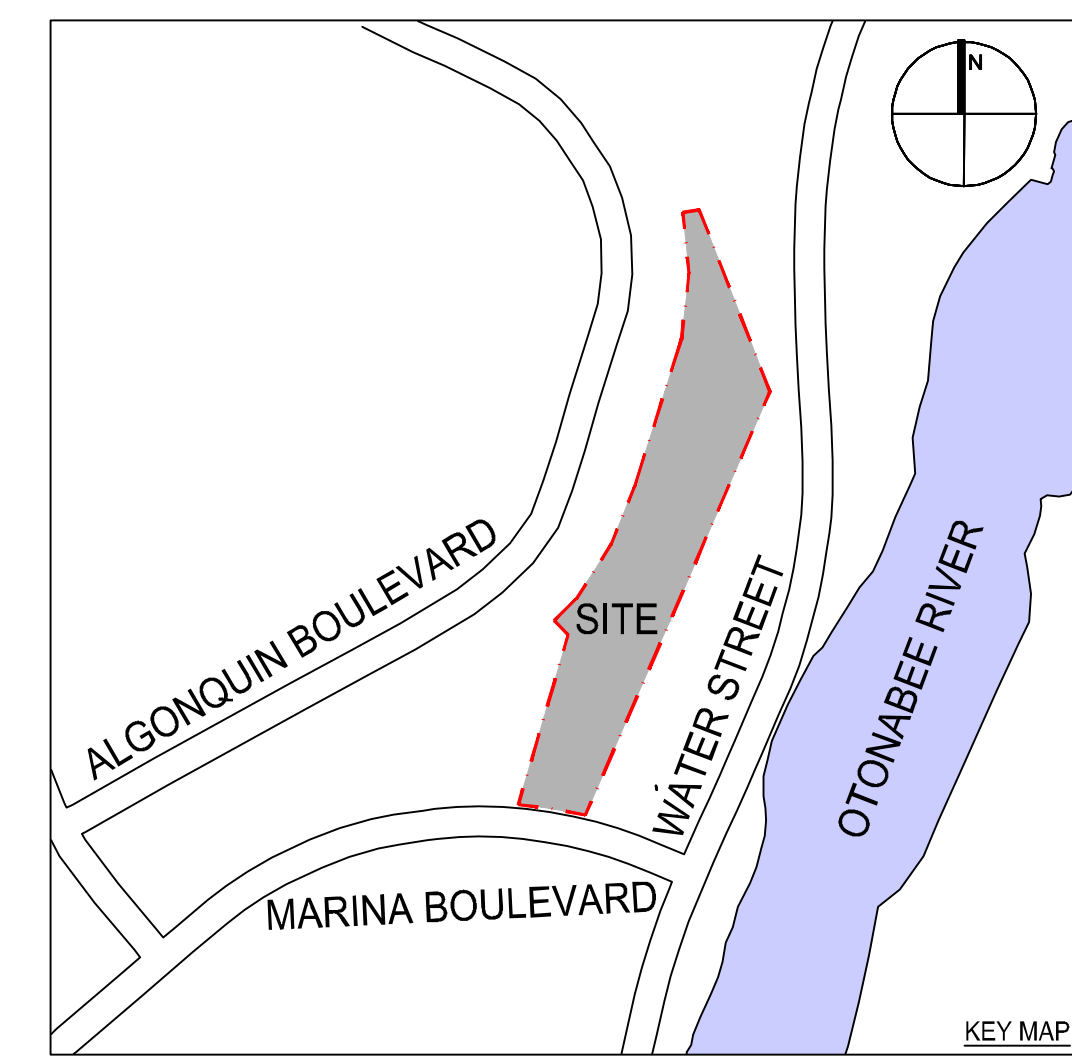
2 LIGHT DUTY PAVEMENT STRUCTURE
SCALE: N.T.S.



3 V-SHAPED CONVEYANCE SWALE
SCALE: N.T.S.

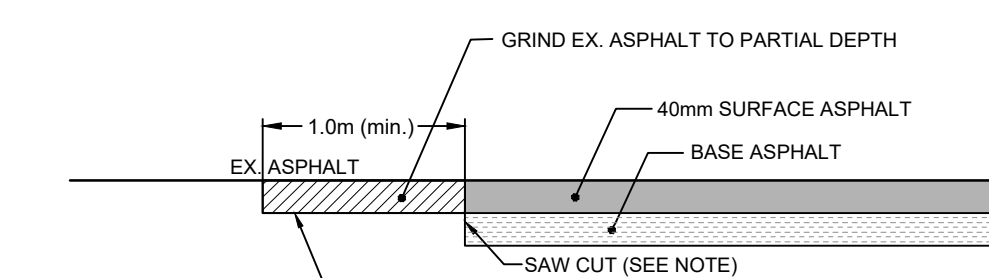


4 FLAT-BOTTOM CONVEYANCE SWALE
SCALE: N.T.S.



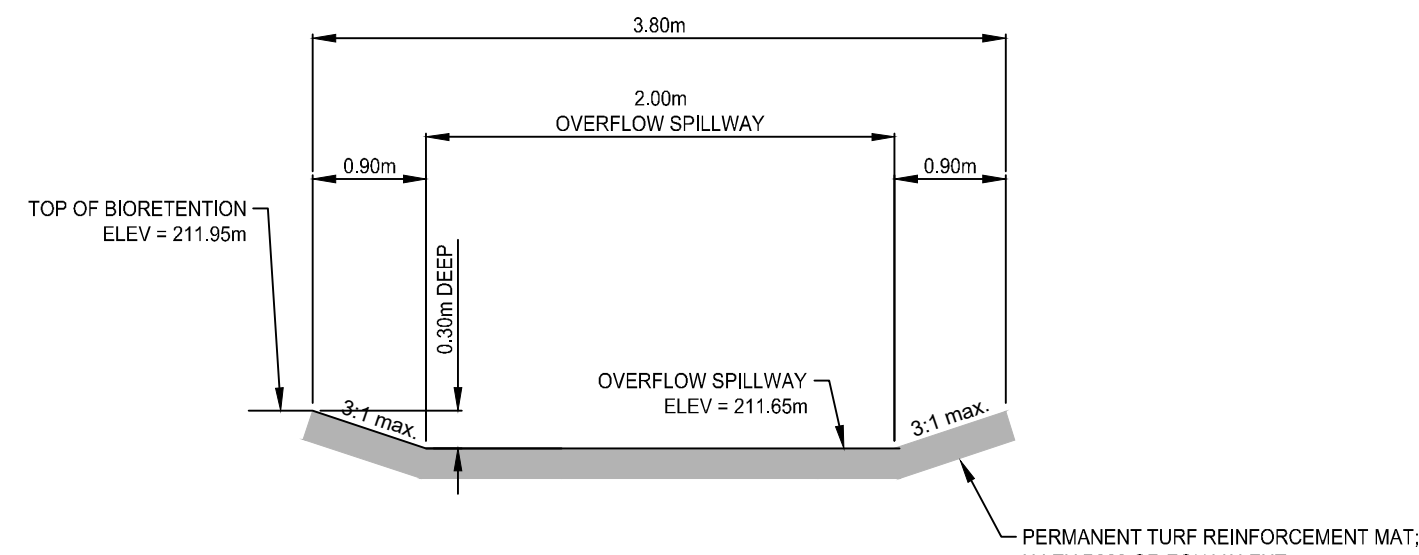
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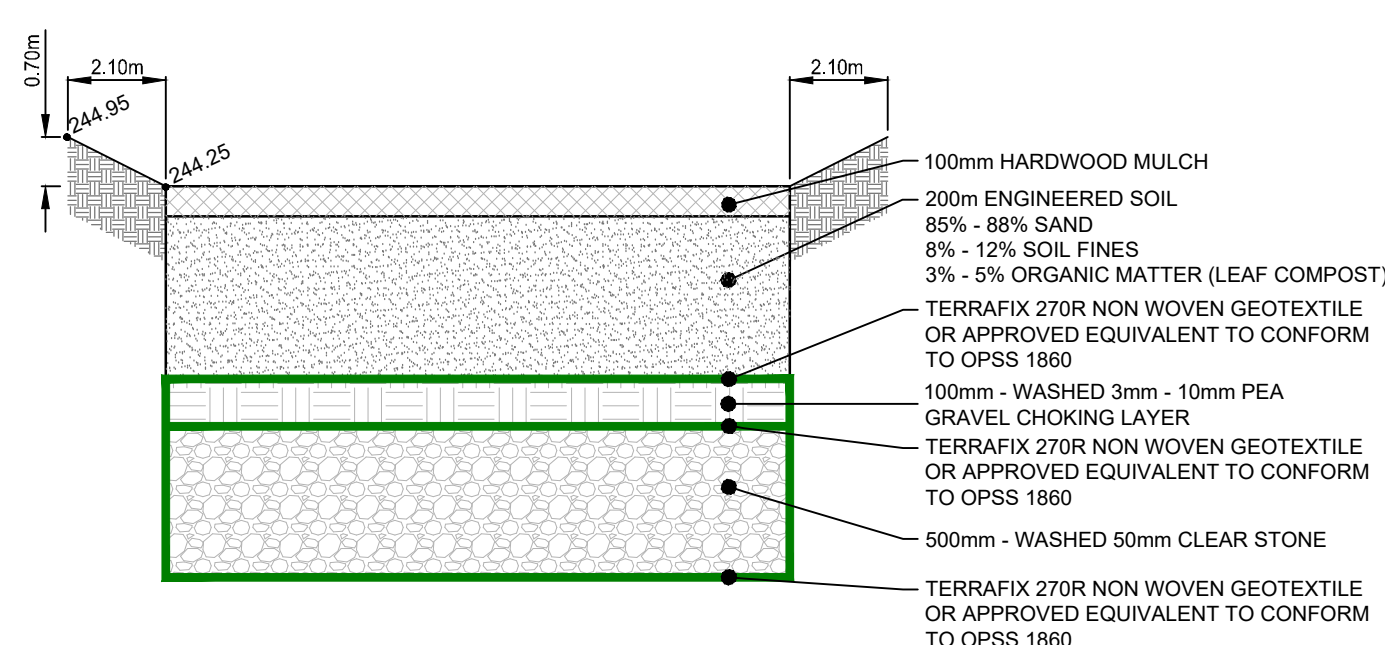


NOTES:
1. TRANSITION TREATMENT REQUIRED AT ALL BUTT JOINTS. THE EXISTING PAVEMENT EDGES SHALL BE "SAW CUT" TO FORM A STRAIGHT, CLEAN VERTICAL FACE.
2. APPLY UNIFORM COATING OF SS-1 EMULSIFIED TACK COAT TO EXISTING ASPHALT EXISTING ASPHALT AT THE TRANSITION TREATMENT AREA.

5 ASPHALT TRANSITION TREATMENT
SCALE: N.T.S.

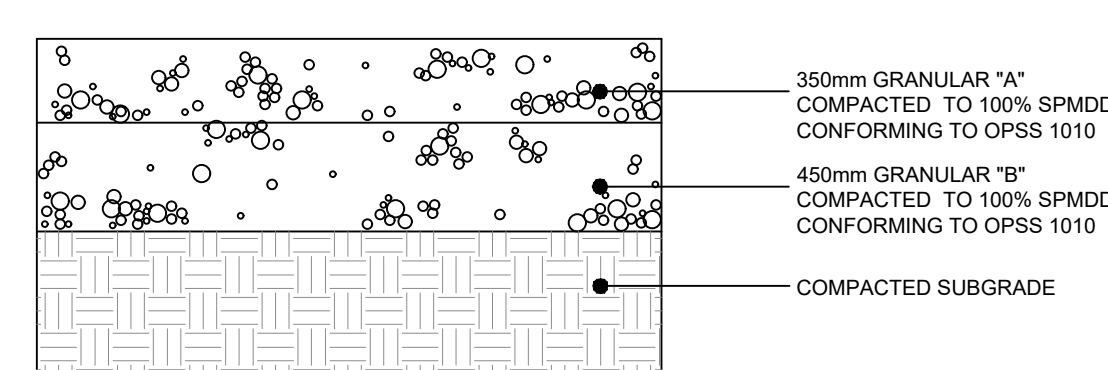


6 BIORETENTION OVERFLOW SPILLWAY
SCALE: N.T.S.



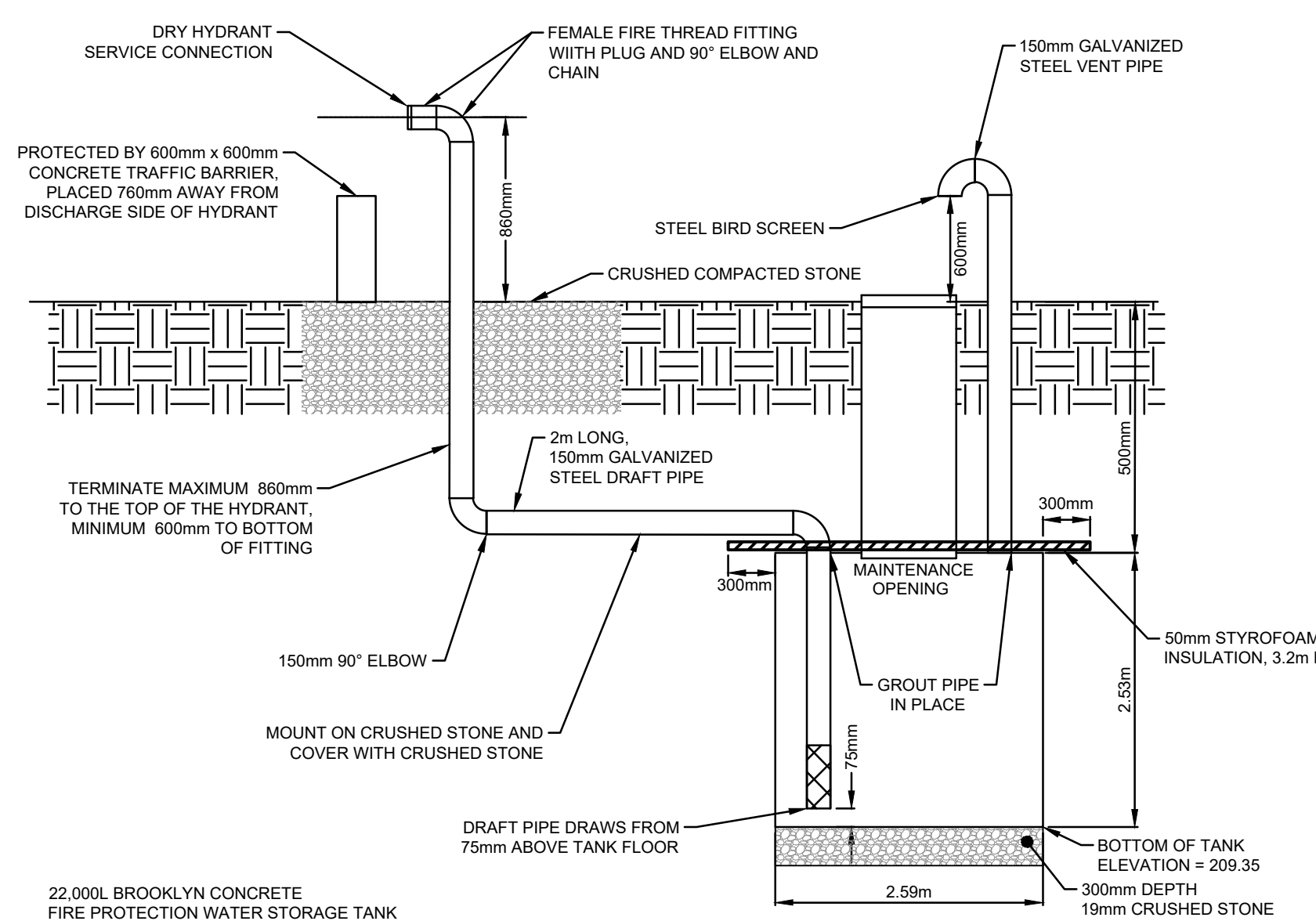
NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. REFER TO CREDIT VALLEY CONSERVATION(CVC) LOW IMPACT DEVELOPMENT STORMWATER PLANNING AND DESIGN GUIDE, TABLE 4.5.5 - BIORETENTION SPECIFICATIONS FOR ADDITIONAL DETAILS.

7 BIORETENTION SOIL STRUCTURE SPECIFICATIONS
SCALE: N.T.S.



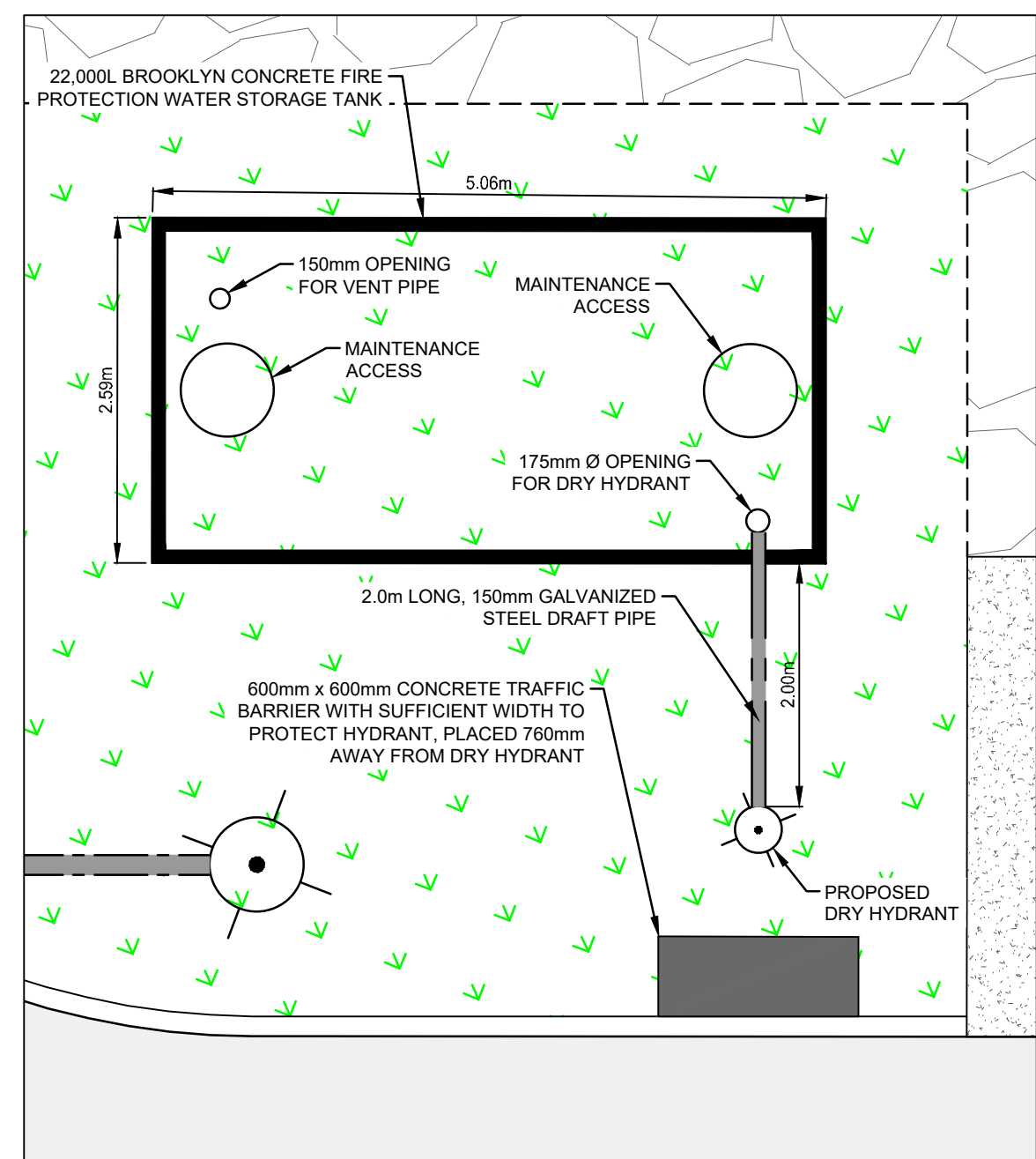
NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

8 HEAVY DUTY GRAVEL PAVEMENT STRUCTURE
SCALE: N.T.S.

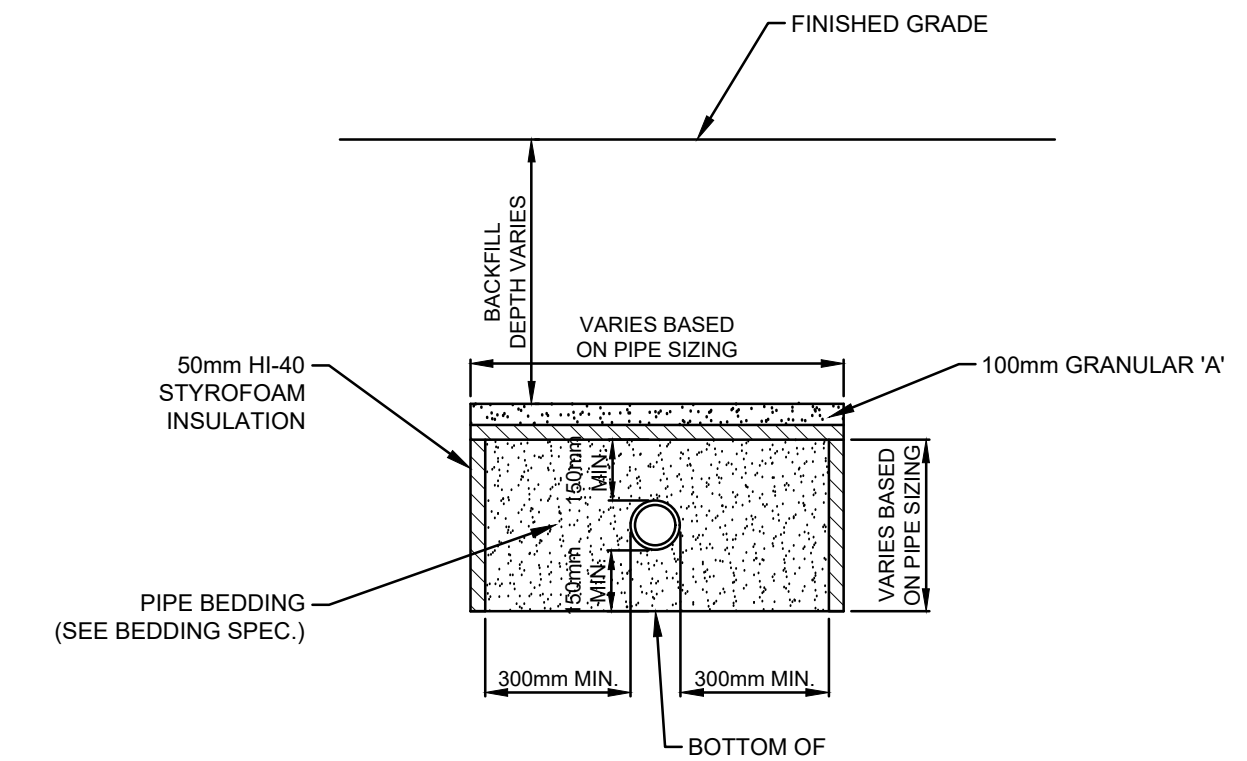


NOTES:
1. MINIMUM 150mm PIPE, SCHEDULE 40 TO BE USED THROUGHOUT, NON-METAL ABOVE GRADE
2. TERMINATE MAXIMUM 950mm TO THE TOP OF THE HYDRANT, MINIMUM 600mm TO BOTTOM OF FITTING (SEE NOTE 4 BELOW)
3. PROTECTED BY A CEMENT TRAFFIC BARRIER, 600mm x 600mm AND OF SUFFICIENT LENGTH TO PROVIDE ADEQUATE PROTECTION FROM VEHICULAR TRAFFIC TO THE HYDRANT, PLACED 750mm AWAY FROM THE DISCHARGE SIDE OF THE DRY HYDRANT, (BETWEEN THE HYDRANT AND WHERE THE TRUCK WOULD PARK (OR EQUIVALENT IF APPROVED BY THE FIRE DEPARTMENT)
4. TERMINATE WITH A 150mm FEMALE FIRE THREAD FITTING WITH PLUG
5. TERMINATE DRY HYDRANT PERPENDICULAR TO THE ACCESS ROAD
6. TERMINATE DRY HYDRANT MAXIMUM 2.40m FROM EDGE OF ACCESS ROAD

9 DRY HYDRANT AND TANK - SECTION VIEW
SCALE: N.T.S.

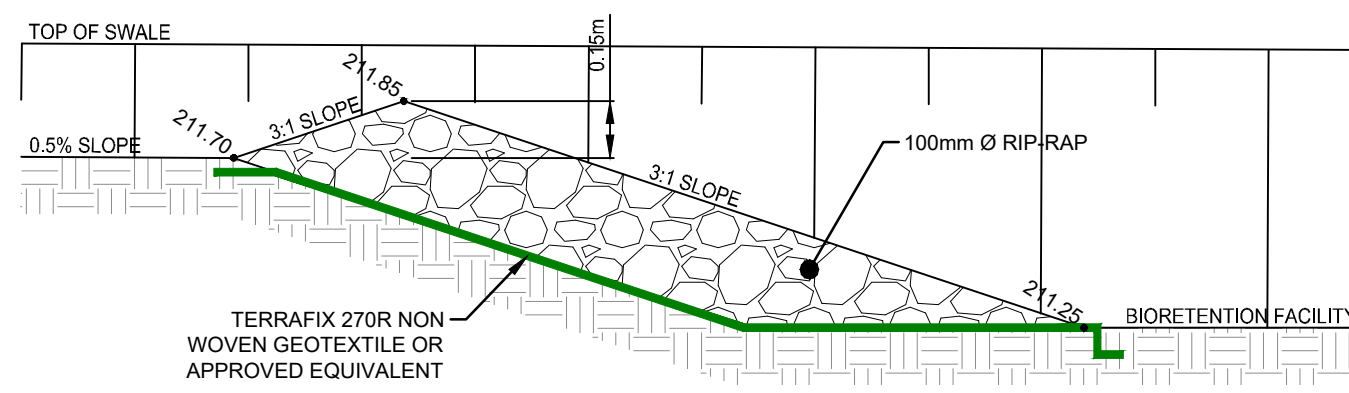


10 DRY HYDRANT DETAIL - PLAN VIEW
SCALE: 1:50

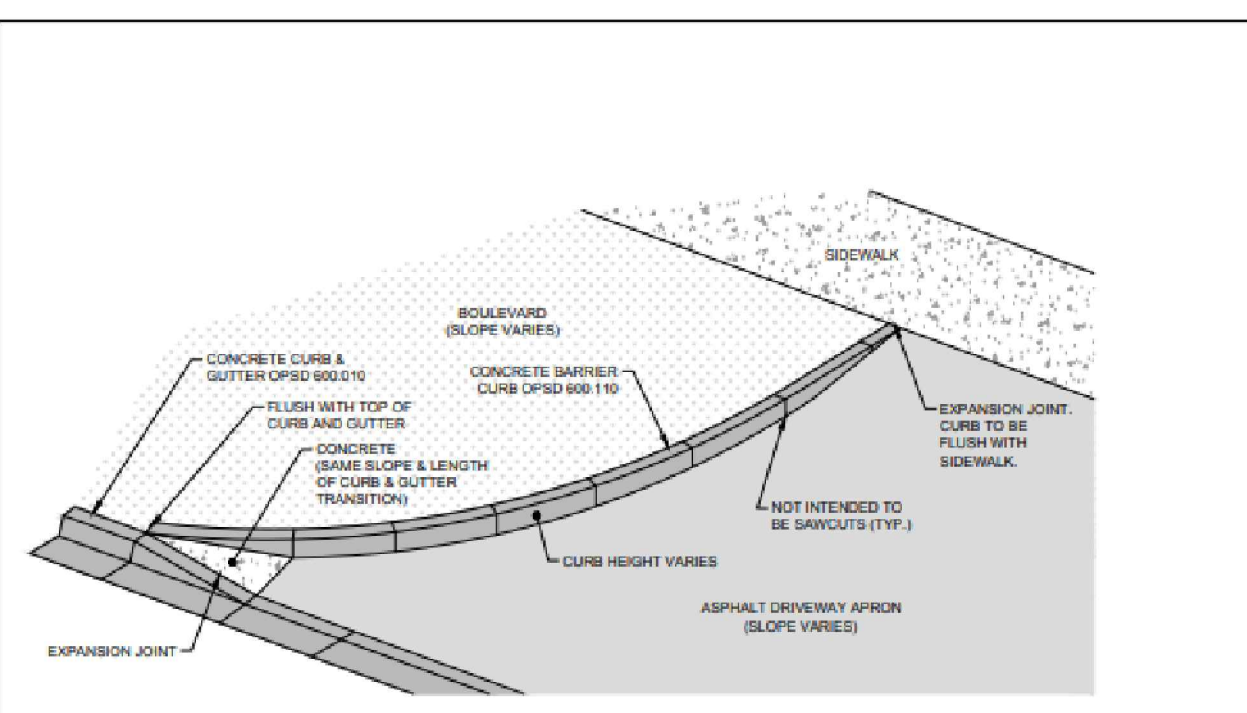


NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
2. THIS DETAIL TO BE READ IN CONJUNCTION WITH OPSD 802.010 (MODIFIED)

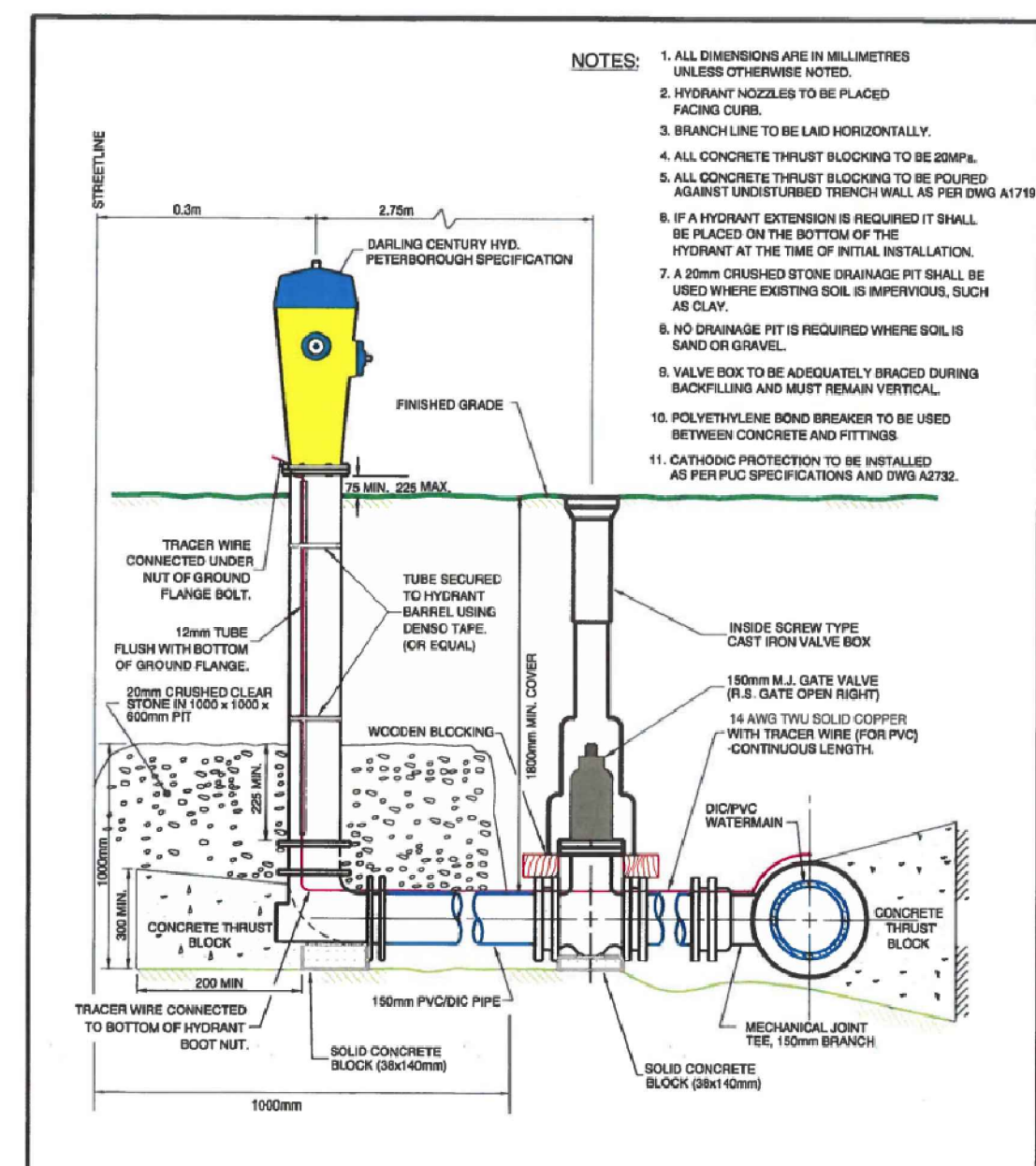
11 PIPE INSULATION DETAIL
SCALE: N.T.S.



12 0.15m HEIGHT RIP-RAP SPILLWAY INTO BIORETENTION
SCALE: N.T.S.



	NO.	DATE
	DESIGNED BY	DATE
	DRAWN BY	DATE
	CHECKED BY	DATE



PETERBOROUGH UTILITIES SERVICES INCORPORATED	
TITLE	STANDARD HYDRANT AND VALVE INSTALLATION WITH CONCRETE THRUST BLOCKS
SCALE	N.T.S.
DATE	JANUARY 8, 2014
NO.	REVISION
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4	REVISED
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100	REVISED

NOT FOR CONSTRUCTION

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CONSTRUCTION DOCUMENTATION
PROJECT No. 21-100
START DATE OCT. 27.2021

CITY OF PETERBOROUGH
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON

DETAILS

C6

NOTES

GENERAL NOTES:

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK, AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT BEFORE PROCEEDING. NO ALLOWANCE SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR FAILURE TO DO SO.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND STAKING OUT THE LOCATION OF ALL EXISTING UTILITIES AND SERVICES. CONTRACTOR SHALL GIVE UTILITIES ADVANCE NOTICE PRIOR TO DIGGING.
- LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR ACCURACY OF SURVEY OR ENGINEERING DRAWINGS. REFER TO APPROPRIATE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL ESTABLISH ALL PROPERTY BOUNDARIES AND CORNER STAKES, AND SHALL BE RESPONSIBLE FOR ALL COSTS OF RE-ESTABLISHING THEM SHOULD THEY BE DISTURBED.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT MINIMUM 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE INSPECTION SCHEDULES.
- CONTRACTOR TO CONFIRM PHYSICAL LAYOUT OF ALL LANDSCAPE AND PLANTINGS WITH LANDSCAPE ARCHITECT BEFORE PROCEEDING.
- CONSTRUCTION MUST CONFORM TO ALL APPLICABLE CODES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
- REFUELING, LUBRICATION AND/OR MAINTENANCE OF CONSTRUCTION VEHICLES IS NOT PERMITTED ON SITE UNLESS APPROVED BY THE OWNER IN WRITING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING STREETS, SIDEWALKS, STRUCTURES, AND MATURE TREES TO REMAIN DURING CONSTRUCTION OF THIS PROJECT AND

SHALL REPAIR SUCH DAMAGE AND CLEAN UP CONSTRUCTION DEBRIS TO THE SATISFACTION OF THE OWNER AND THE MUNICIPALITY AT NO ADDITIONAL COST.

10. THE CONTRACTOR, UPON ACCEPTANCE OF THE CONTRACT, ASSUMES COMPLETE RESPONSIBILITY AND LIABILITY FOR THE JOB SITE DURING THE COURSE OF CONSTRUCTION, AND WILL ENSURE PUBLIC SAFETY AND CLEANLINESS OF MUNICIPAL ROADS NEAR THE SITE.

11. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT OF THE LANDSCAPE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN WHOLE OR IN PART IS FORBIDDEN WITHOUT THE LANDSCAPE ARCHITECT'S PERMISSION. DRAWINGS ARE NOT TO BE SCALED.

APPLICATION OF TOPSOIL:

- EXISTING TOPSOIL IS TO BE STOCKPILED IN LOCATION APPROVED BY OWNER. SCREEN ROCKS AND DEBRIS PRIOR TO USE.
- EXISTING TOPSOIL IS TO BE STOCKPILED AND USED AS APPROPRIATE FOR PROPOSED WORK. IMPORT TOPSOIL AS REQUIRED.
- CONTRACTOR IS TO PROVIDE NUTRIENT ANALYSIS AND GRAIN SIZE ANALYSIS FOR ALL NEW OR EXISTING TOPSOIL TO BE USED ON SITE AND TO OBTAIN APPROVAL OF LANDSCAPE ARCHITECT PRIOR TO APPLICATION.
- SCARIFY EXISTING SUBGRADE AND APPLY A MINIMUM OF 300mm OF TOPSOIL OVER DISTURBED AREA.
- REMOVE DEBRIS, ROOTS, BRANCHES, STONES IN EXCESS OF 50mm DIA. AND OTHER DELETERIOUS MATERIALS.
- SPREAD TOPSOIL IN UNIFORM AREA, EACH LAYER NOT EXCEEDING 150mm
- ALL DISTURBED LAWN AREAS ARE TO BE SEEDED OR SODDED.

SODDING:

- OBTAIN APPROVAL OF FINISHED GRADE PRIOR TO INSTALLATION OF SOD.
- SUPPLY AND PLACE SCREENED TOPSOIL COMPACTED DEPTH @ 85% S.P.D. OVER SUBGRADE WHICH HAS BEEN SCARIFIED TO 150mm DEPTH PRIOR TO PLACEMENT OF TOPSOIL.
- SUPPLY AND PLACE NO.1 TURFGRASS NURSERY SOD, SOD THAT HAS BEEN ESPECIALLY SOWN AND CULTIVATED IN NURSERY FIELDS AS TURFGRASS CROP.
- FINE GRADE TOPSOIL, SURFACE FREE OF HUMPS AND HOLLOW TO SMOOTH, EVEN GRADE, TO TOLERANCE OF +/- 15MM FOR TURFGRASS NURSERY SOD, SURFACE TO DRAIN POSITIVELY.
- LAY SOD WITHIN 24 HOURS OF BEING LIFTED IF AIR TEMPERATURE EXCEEDS 20 DEGREES CELSIUS.
- LAY SOD IN ROWS, JOINTS STAGGERED. BUTT SECTIONS CLOSELY WITHOUT OVERLAPPING OR LEAVING GAPS BETWEEN SECTIONS. CUT OUT IRREGULAR, DISCOLOURED OR THIN SECTIONS WITH SHARP IMPLEMENTS.
- LAY SOD PERPENDICULAR TO DIRECTION OF SLOPE.
- STAKE SOD ON ALL SLOPES GREATER THAN 3:1. PROVIDE WOOD STAKES, MIN. 2 PER SQ.M. OF SOD, 50mm X 50mm X 200mm, DRIVEN INTO GROUND TO LEVEL OF TOP OF SOD.
- ROLL SOD AFTER INSTALLATION, TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT. PROVIDE CLOSE CONTACT BETWEEN SOD AND SOIL BY LIGHT ROLLING. USE OF HEAVY ROLLER TO CORRECT IRREGULARITIES IN GRADE IS NOT PERMITTED.
- PERFORM THE FOLLOWING OPERATIONS FROM TIME OF INSTALLATION UNTIL ACCEPTANCE.

- WATER SODDED AREAS IN SUFFICIENT QUANTITIES AND AT FREQUENCY REQUIRED TO MAINTAIN OPTIMUM SOIL MOISTURE CONDITION TO DEPTH OF 75 - 100MM, CONTINUOUS, OVER ENTIRE SODDED AREA.
- THE SOD MUST BE CUT A MINIMUM OF TWO TIMES PRIOR TO ACCEPTANCE. CUT GRASS TO 50MM WHEN OR PRIOR TO, REACHING HEIGHT OF 75MM. EVENLY SPREAD CLIPPINGS BUT REMOVE ANY CLIPPINGS WHICH WILL SMOTHER GRASS.
- MAINTAIN SODDED AREAS 95% WEED FREE.

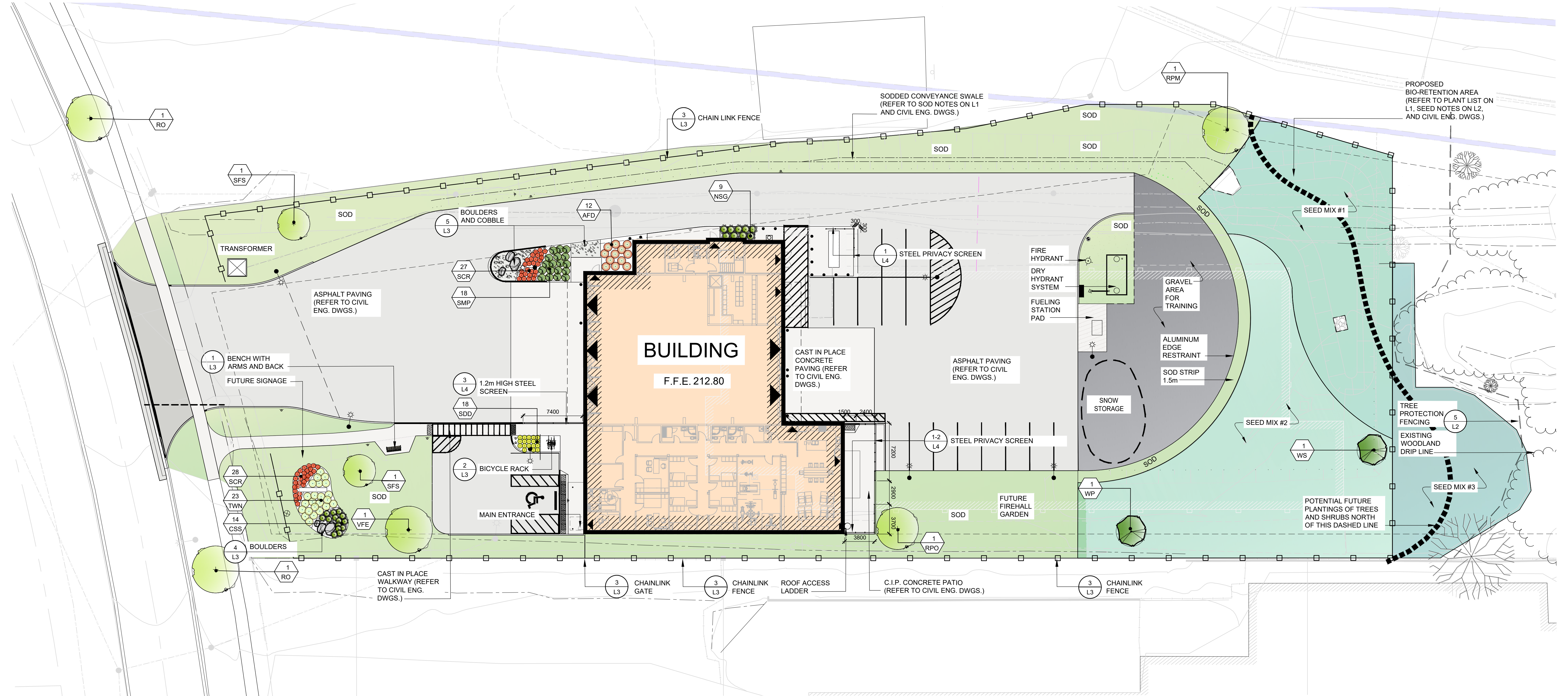
- AFTER ACCEPTANCE OF SODDED AREAS, MAINTENANCE INCLUDING WATERING BECOMES THE RESPONSIBILITY OF THE OWNER.
- CLEAN THOROUGHLY TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT, AND REMOVE ALL EXCESS MATERIALS FROM THE SITE.

SEEDING:

- SEED WITH SEED MIX AS NOTED IN PLANT LIST AND ON L1
- OBTAIN APPROVAL OF FINISHED GRADE PRIOR TO APPLICATION OF SEED.
- APPLY SEED BETWEEN AUGUST 15 AND OCTOBER 15, OR WITHIN THE FIRST 3 WEEKS OF MAY, WEATHER PERMITTING. REFER TO MANUFACTURER'S SPECIFICATIONS FOR APPLICATION.
- WATER SEEDED AREAS AS REQUIRED TO ENSURE GERMINATION AND CONTINUOUS GROWTH.
- AREAS WILL BE ACCEPTED PROVIDED THAT SEEDED AREAS ARE UNIFORMLY ESTABLISHED AND FREE OF RUTTED, ERODED, BARE, OR DEAD SPOTS.
- CONTRACTOR TO FOLLOW OPSS 572: CONSTRUCTION SPECIFICATION FOR SEED AND COVER CROP
- ALL SEED TO BE HYDROSEEDDED PRIOR TO PLANTING SHRUBS AND TREES
- COVER CROP: REFER TO COVER CROP IN PLANT LIST ON L1

PLANT LIST

Sym	Qty	Botanical Name	Common Name	Size	Condition	Spacing	Comments
Deciduous Trees							
RPM	1	Acer rubrum 'Frank Jr.'	Redpointe Maple	60 mm cal.	WB	as shown	Specimen
SFS	2	Amelanchier laevis 'Spring Flurry'	Spring Flurry Serviceberry	45mm cal.	WB	as shown	Specimen
RPM	1	Acer rubrum 'Frank Jr.'	Redpointe Maple	60 mm cal.	WB	as shown	Specimen
RPO	1	Quercus 'Regal Prince'	Regal Prince English Oak	60 mm cal.	WB	as shown	Specimen
RO	2	Quercus rubra	Red Oak	60 mm cal.	WB	as shown	Specimen
VFE	1	Ulmus americana 'Valley Forge'	Valley Forge Elm	60 mm cal.	WB	as shown	Specimen
Coniferous Trees							
WS	1	Picea glauca	White Spruce	180 cm	WB	as shown	Specimen
WP	1	Pinus strobus	Eastern White Pine	180 cm	WB	as shown	Specimen
Deciduous Shrubs							
AFD	12	Cornus stolonifera 'Farrow'	Arctic Fire Red Twig Dogwood	50 cm	container	as shown	
TWN	23	Physocarpus opulifolius 'Tiny Wine Gold'	Tiny Wine Gold Ninebark	50 cm	container	as shown	
Evergreen Shrubs							
SMP	18	Pinus mugo 'Slowmound'	Slowmound Mugo Pine	40 cm	container	as shown	
Ornamental Grasses/Sedges							
CSS	14	Panicum virgatum 'Cheyenne Sky'	Cheyenne Sky Switch Grass	2 gal.	container	as shown	
NSG	9	Panicum virgatum 'Northwind'	Northwind Switch Grass	2 gal.	container	as shown	
Perennials							
SDD	18	Hemerocallis Stella D'Oro	Stella D'Oro Daylily	1 gal	container	as shown	
SCR	55	Echinacea 'Sombbrero Salsa Red'	Salsa Red Sombbrero Coneflower	1 gal	container	as shown	
Seed Mixes							
Seed Mix Cover Crop: OSC Seasonally Flooded Mix 8240		Seed at supplier's recommended rate		Approximate area 550 sq.m.			
Seed Mix #1: OSC Seasonally Flooded Mix 8240		Seed at supplier's recommended rate		Approximate area 550 sq.m.			
Seed Mix #2: OSC Simcoe County Mix 6850		Seed at supplier's recommended rate		Approximate area 850 sq.m.			
Seed Mix #3: OSC Woodland Native Seed Mix 8275		Seed at supplier's recommended rate		Approximate area 350 sq.m.			
* ALL SEED MIX SUPPLY AND INSTALLATION INSTRUCTIONS AS PER OSC Seeds							
* (519) 886-0557 seeds@oscseeds.com KITCHENER, ONTARIO							
* NO SUBSTITUTIONS UNLESS APPROVED BY LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO SITE							
* SPACING AS NOTED ON THIS LIST IS APPROXIMATE ONLY - ALL PLANT LAYOUT TO BE AS PER PLAN							



NOT FOR CONSTRUCTION



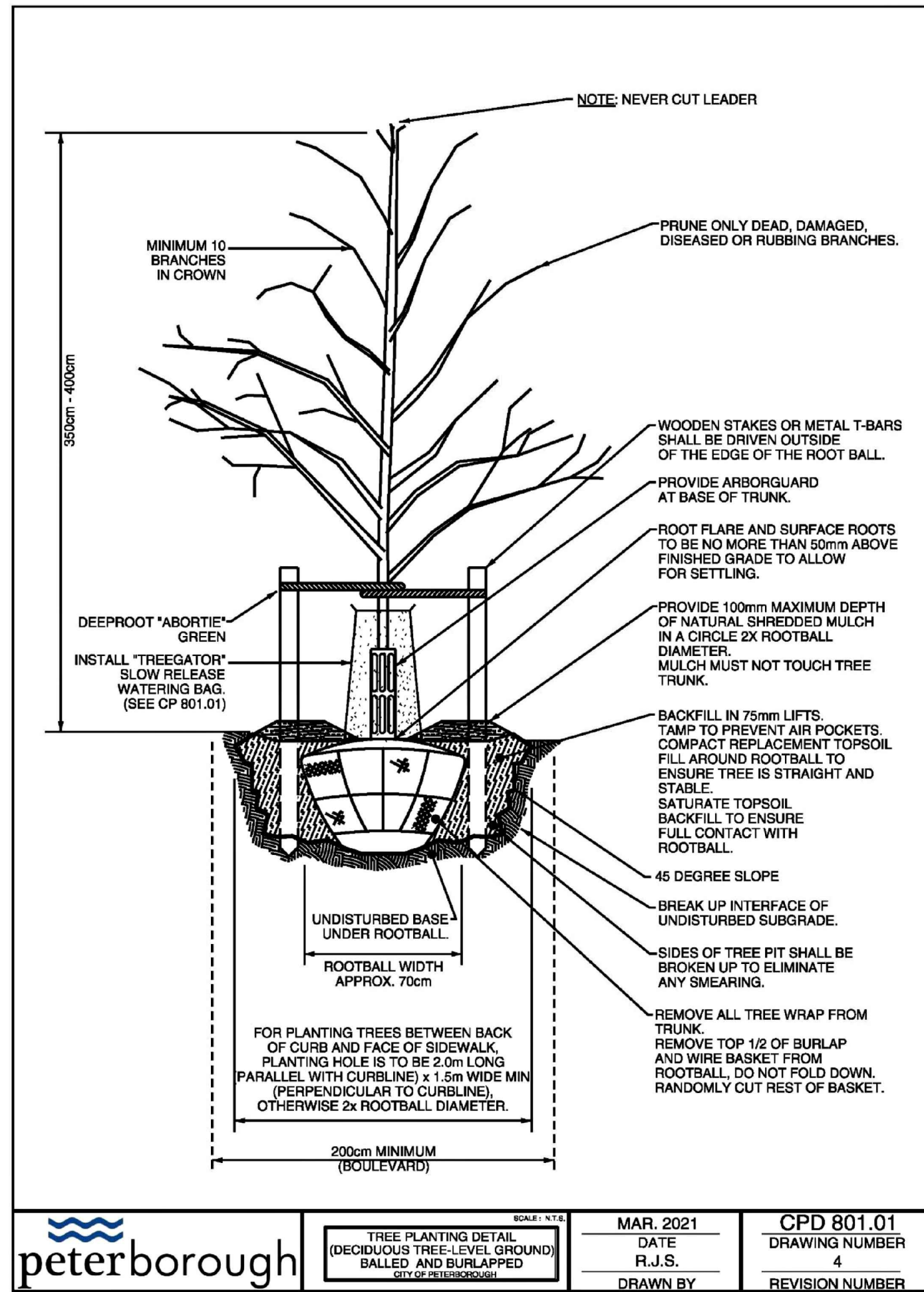
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CONSTRUCTION DOCUMENTATION
PROJECT No. 21-100
START DATE OCT. 27 2021

CITY OF PETERBOROUGH
FIRE STATION NO. 2

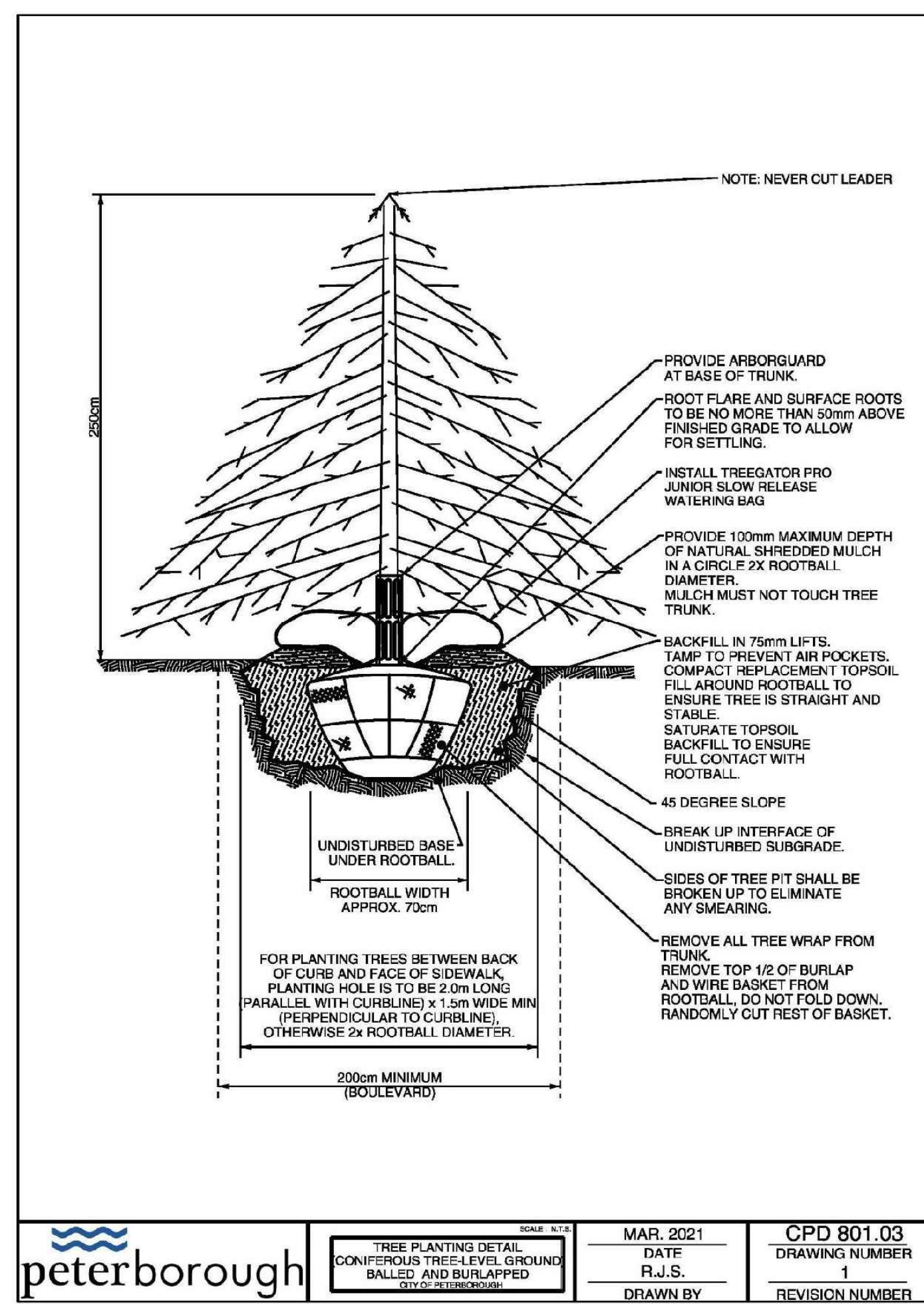
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON

LANDSCAPE PLAN



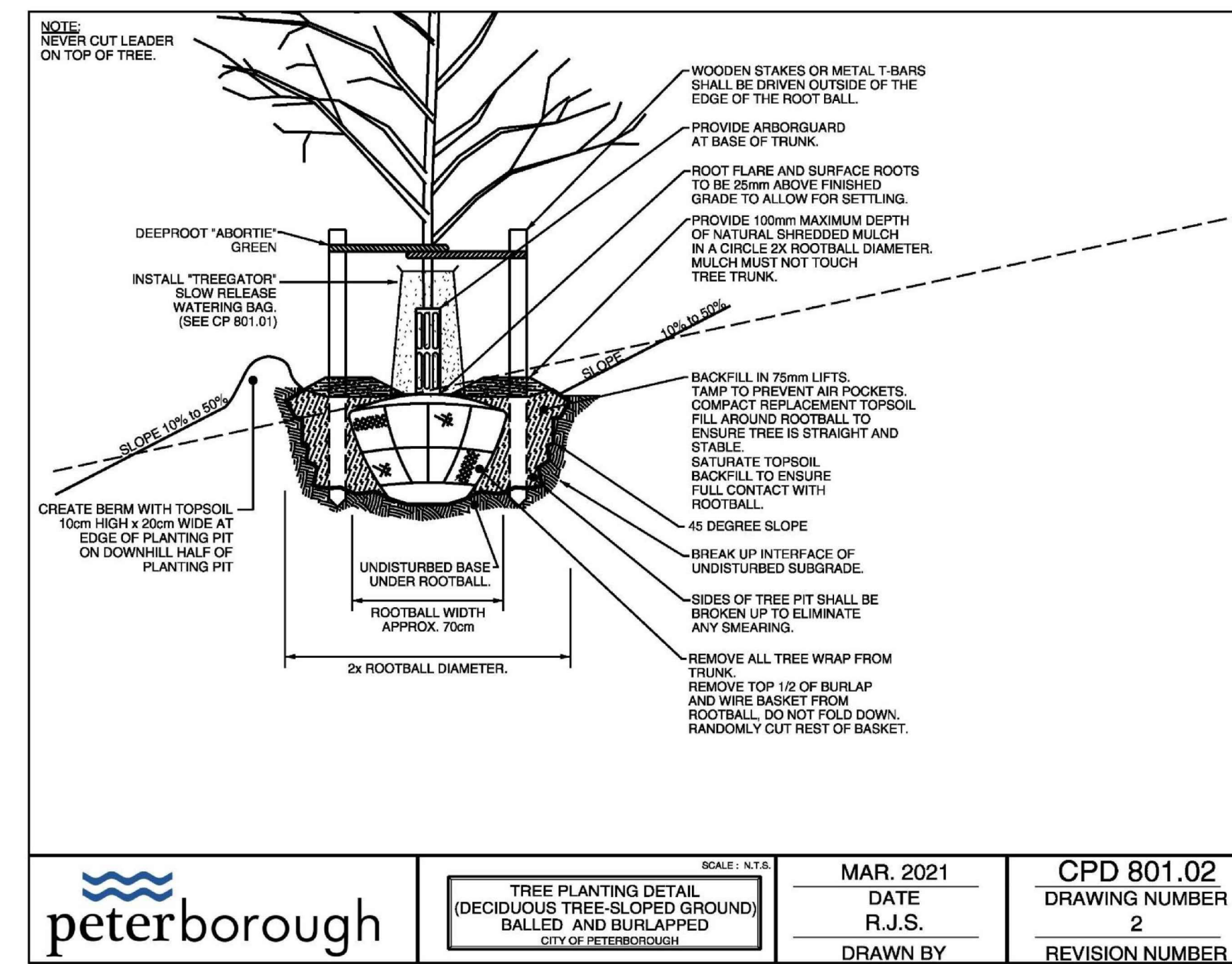
CP 801.01 CPD 801.01 CPD 801.02 CPD 801.03 CPD801.04 CP 801.02
(Revised March 2021)

1 L2 Deciduous Tree Planting Detail
N.T.S.



CP 801.01 CPD 801.01 CPD 801.02 CPD 801.03 CPD801.04 CP 801.02
(Revised January 2020)

2 L2 Coniferous Tree Planting Detail
N.T.S.



CP 801.01 CPD 801.01 CPD 801.02 CPD 801.03 CPD801.04 CP 801.02 (Revised January 2020)

3 L2 Deciduous Tree planting on Slope
N.T.S.

PLANTING NOTES, GENERAL:

REFER TO PLANTING DETAILS FOR INSTALLATION NOTES.

- IN THE EVENT OF A DISCREPANCY BETWEEN PLANT LIST AND PLAN, QUANTITIES SHOWN ON PLAN SHALL TAKE PRECEDENCE OVER THE PLANT LIST.
- PLANTS SHOWN ON THE PLAN BUT NOT INCLUDED ON THE LIST ARE THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY AND INSTALL, REGARDLESS OF THE PLANT LIST. PLEASE REPORT ANY DISCREPANCIES BETWEEN THE PLAN AND THE LIST IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
- WATER TEST EXCAVATED TREE PITS FOR WATER POROSITY PRIOR TO PLANTING AND REPORT TO LANDSCAPE ARCHITECT.

PLANTING INSPECTION NOTES:

- MAKE PLANT MATERIAL AVAILABLE FOR INSPECTION BY THE CONSULTANT PRIOR TO INSTALLATION.
- APPROVAL OF PLANT MATERIAL AT THE SITE WILL NOT IMPAIR THE RIGHT OF THE OWNER OR CONSULTANT TO INSPECT PLANTS DURING THE COURSE OF CONSTRUCTION AND TO REJECT ANY MATERIAL WHICH HAS BEEN DAMAGED OR WHICH, IN ANY WAY, DOES NOT CONFORM TO THE SPECIFICATIONS.
- PARTIAL ACCEPTANCE WILL BE GIVEN WHEN PLANTING WORK HAS BEEN DELAYED DUE TO CIRCUMSTANCES BEYOND THE CONTROL OF THE CONTRACTOR OR WHERE PLANTING WOULD BE IN DISCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND WOULD JEOPARDIZE THE PERFORMANCE OF THE WORK AND PLANTS.
- FINAL INSPECTION OF ALL PLANT MATERIAL WILL BE MADE WHEN THE CONSTRUCTION IS COMPLETED. AT THE TIME OF INSPECTION ALL PLANT MATERIAL MUST BE IN A HEALTHY GROWING CONDITION OR THEY WILL BE REJECTED. THE TREE PITS MUST BE FRESHLY CULTIVATED AND FREE OF WEEDS, RUBBISH OR DEBRIS.
- INSPECTION OF ALL PLANT MATERIAL WILL BE COMPLETED BY THE CONSULTANT AT THE END OF THE SPECIFIED WARRANTY PERIOD. AT THE TIME OF INSPECTION ALL PLANT MATERIAL MUST BE IN A HEALTHY GROWING CONDITION OR THEY WILL BE REJECTED. THE TREE PITS MUST BE FRESHLY CULTIVATED AND FREE OF WEEDS, RUBBISH OR DEBRIS.

PLANTING WARRANTY PERIOD NOTES:

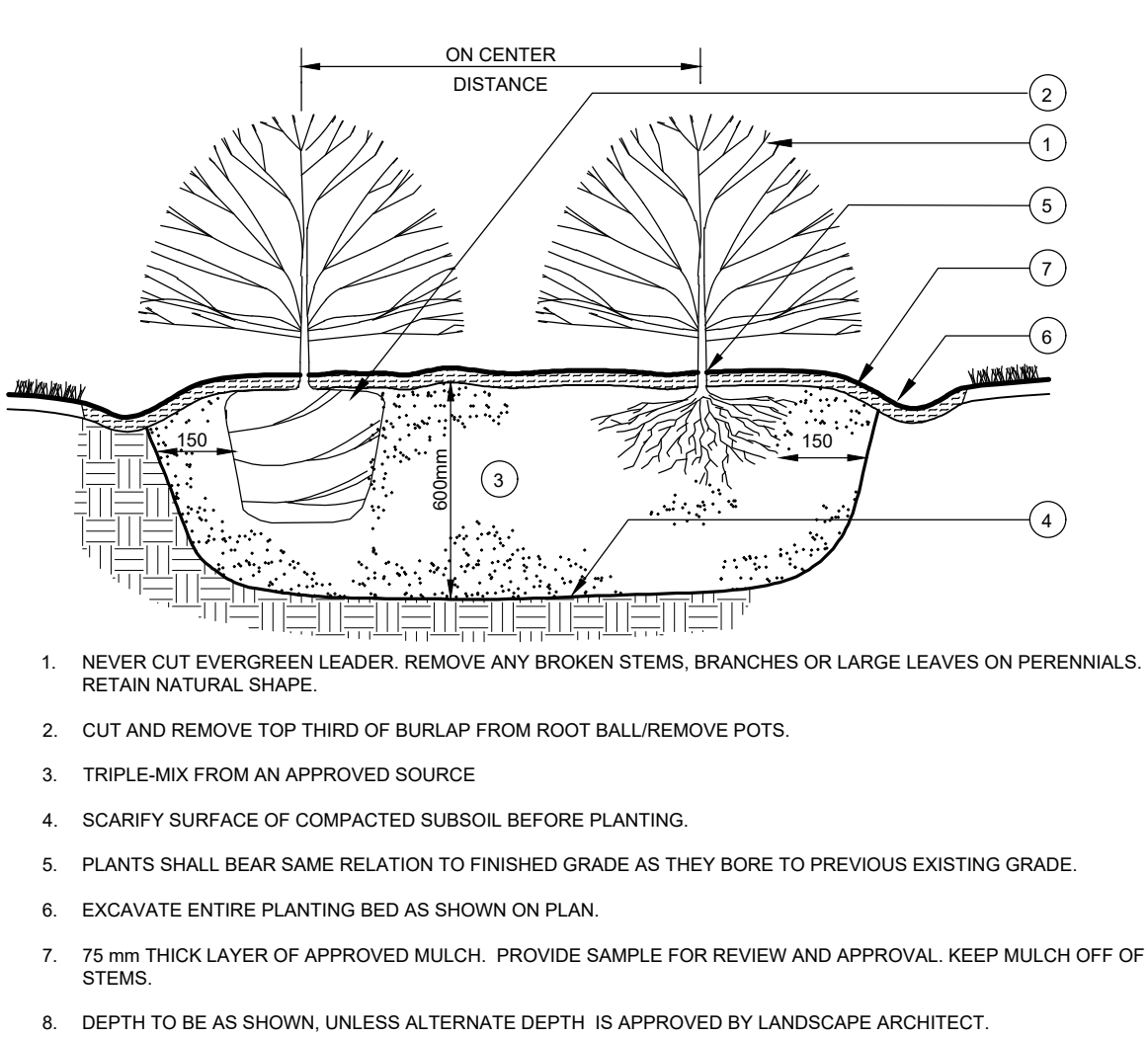
- THE CONTRACTOR WARRANTS THAT ALL PLANT MATERIAL, AS ITEMIZED ON THE PLANT LIST, REMAINS FREE OF DEFECTS FOR A PERIOD OF 2 YEARS FROM THE TIME OF SUBSTANTIAL COMPLETION.
- IF PLANT MATERIAL IS NOT IN A VIGOROUS GROWING CONDITION OR CHARACTERISTIC FOR SPECIES DURING THE WARRANTY PERIOD, THE OWNER OR CONSULTANT MAY REQUEST AN ADDITIONAL YEAR OF WARRANTY.
- ANY PLANTS REPLACED DURING THE WARRANTY PERIOD SHALL BE COVERED BY THE INITIAL 2-YEAR WARRANTY AND THE EXTENSION, IF NECESSARY.

PLANTING REPLACEMENT NOTES:

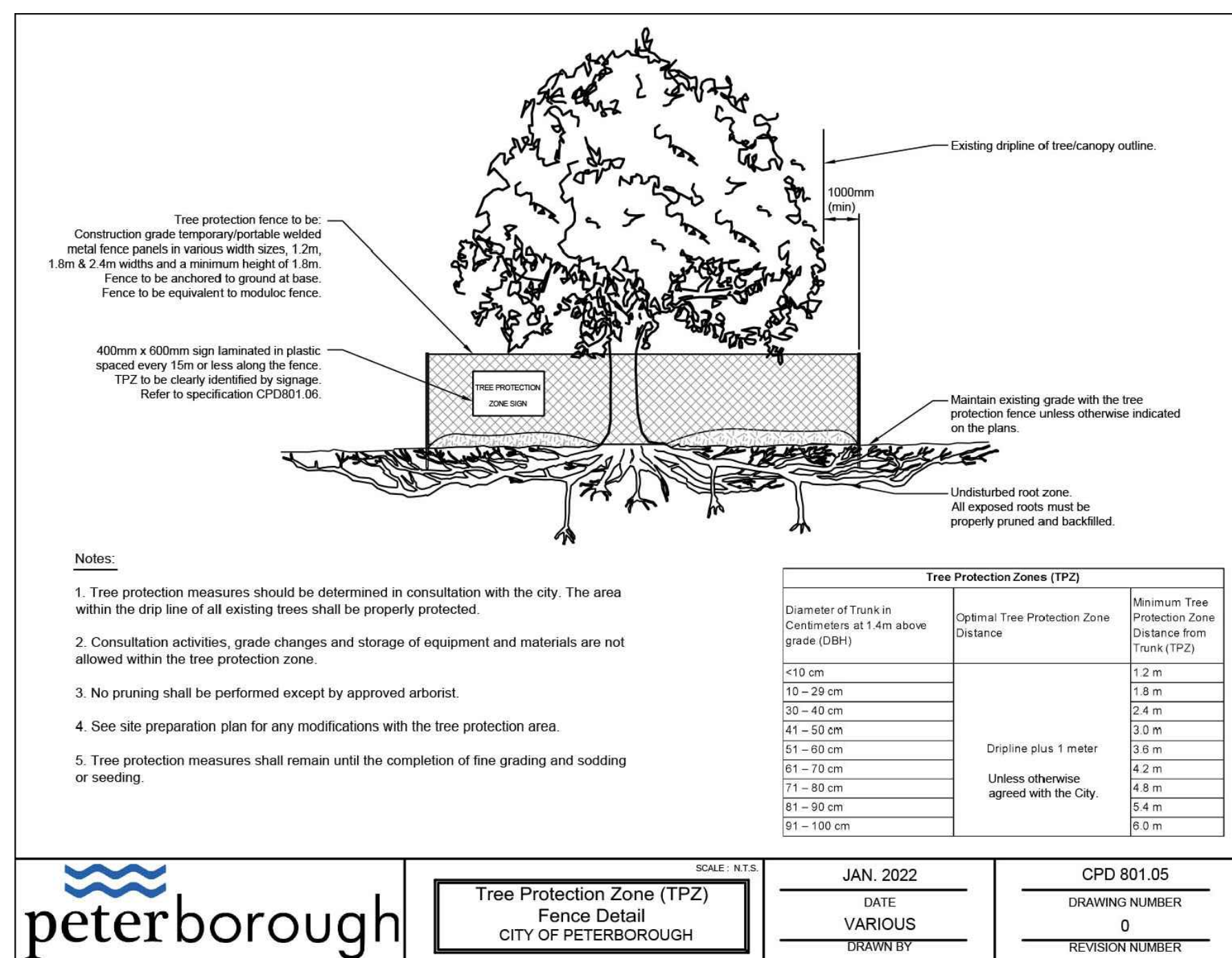
- ALL PLANT MATERIAL FOUND DEAD, OR NOT IN A HEALTHY, SATISFACTORY GROWING CONDITION OR WHICH, IN ANY OTHER WAY, DO NOT MEET THE REQUIREMENTS OF THE SPECIFICATIONS, AS DETERMINED BY THE CONSULTANT, SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL REQUIRED REPLACEMENTS SHALL BE BY PLANTS OF THE SAME SIZE AND SPECIES AS SPECIFIED ON THE PLANT LIST AND SHALL BE SUPPLIED AND PLANTED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

HANDLING OF PLANTS

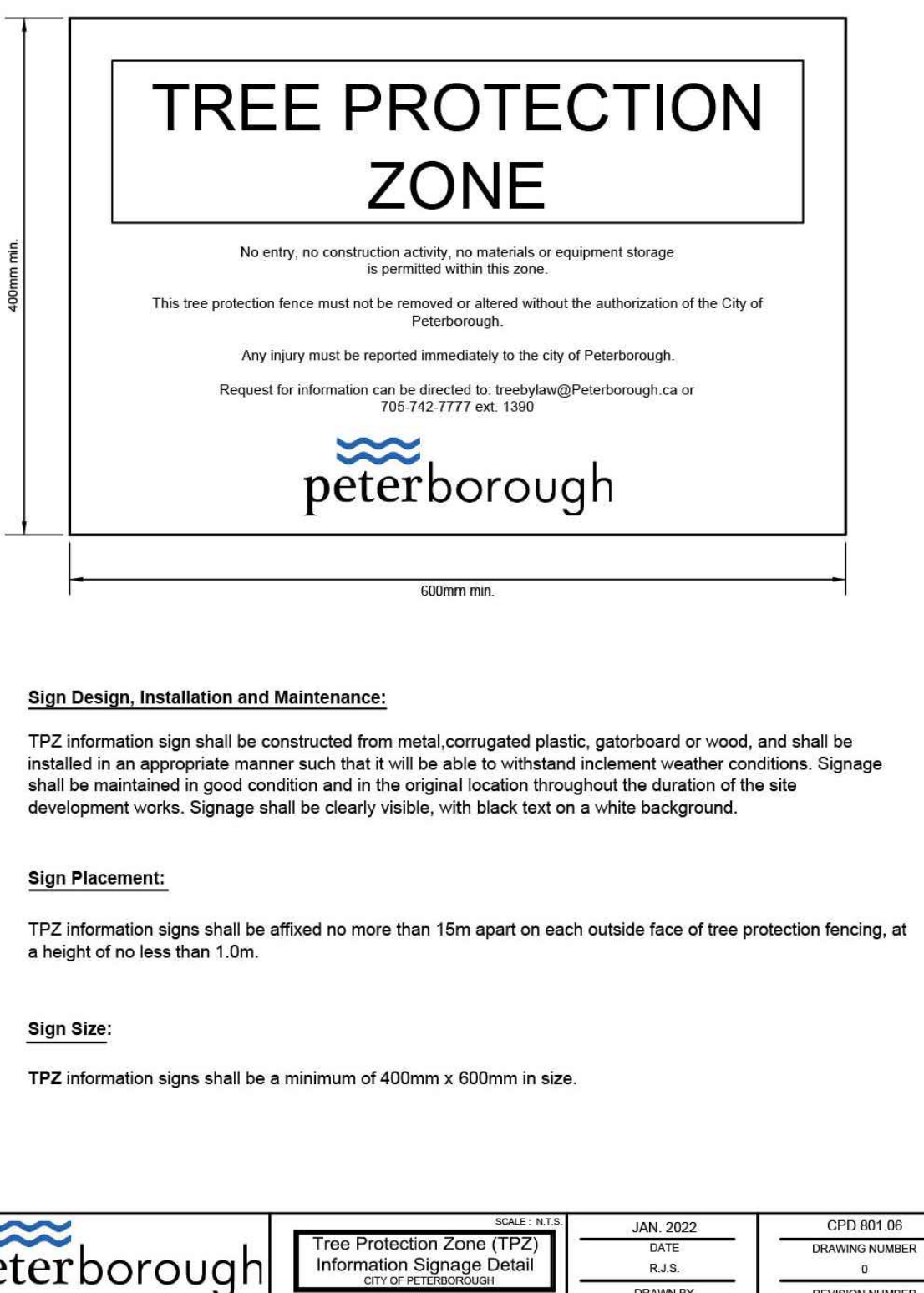
- THROUGHOUT THE DURATION OF THE INSTALLATION, ROOT BALLS, TRUNKS AND BRANCHES SHALL BE PROTECTED FROM SUN AND WIND DESICCATION.
- ROOTS SHALL BE EVENLY CUT AT THE EDGES OF THE ROOT BALL OR AT THE EXTENSION OF UNDAMAGED ROOTS FOR BARE ROOT TREES. TREES WITH SPLIT ROOTS SHALL BE REJECTED.
- TREES SHALL BE TRANSPORTED WITH CARE TAKEN TO AVOID DAMAGE. BRANCHES SHALL BE CAREFULLY TIED IN SUCH MANNER SO AS NOT TO BREAK OR DAMAGE TRUNKS. POINTS OF CONTACT WITH EQUIPMENT SHALL BE PADDED.



4 L2 Shrub Planting Detail
N.T.S.



5 L2 Tree Protection Fencing
N.T.S.



Sign Design, Installation and Maintenance:

TPZ information sign shall be constructed from metal, corrugated plastic, gatorboard or wood, and shall be installed in an appropriate manner such that it will be able to withstand inclement weather conditions. Signage shall be maintained in good condition and in the original location throughout the duration of the site development works. Signage shall be clearly visible, with black text on a white background.

Sign Placement:

TPZ information signs shall be affixed no more than 15m apart on each outside face of tree protection fencing, at a height of no less than 1.0m.

Sign Size:

TPZ information signs shall be a minimum of 400mm x 600mm in size.



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CONSTRUCTION DOCUMENTATION

PROJECT No. 21-100
START DATE OCT. 27 2021

CITY OF PETERBOROUGH

FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON

LANDSCAPE DETAILS

MBE-0400-00023
Legacy # *MLB400-RC*

400 SERIES

SILVER 14

MATERIALS: Bench frame is made from H.S. steel tube and flat bar. The seat and back employ recycled plastic slats - **Cedar Colour**

FINISH: All steel components are protected with E-Coat rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces.

INSTALLATION: The bench is delivered pre-assembled. Holes (0.15") are provided in each foot for securing to base.

TO SPECIFY: Select MBE-0400-00023
Choose:
- Powdercoat Color: **Silver 14**

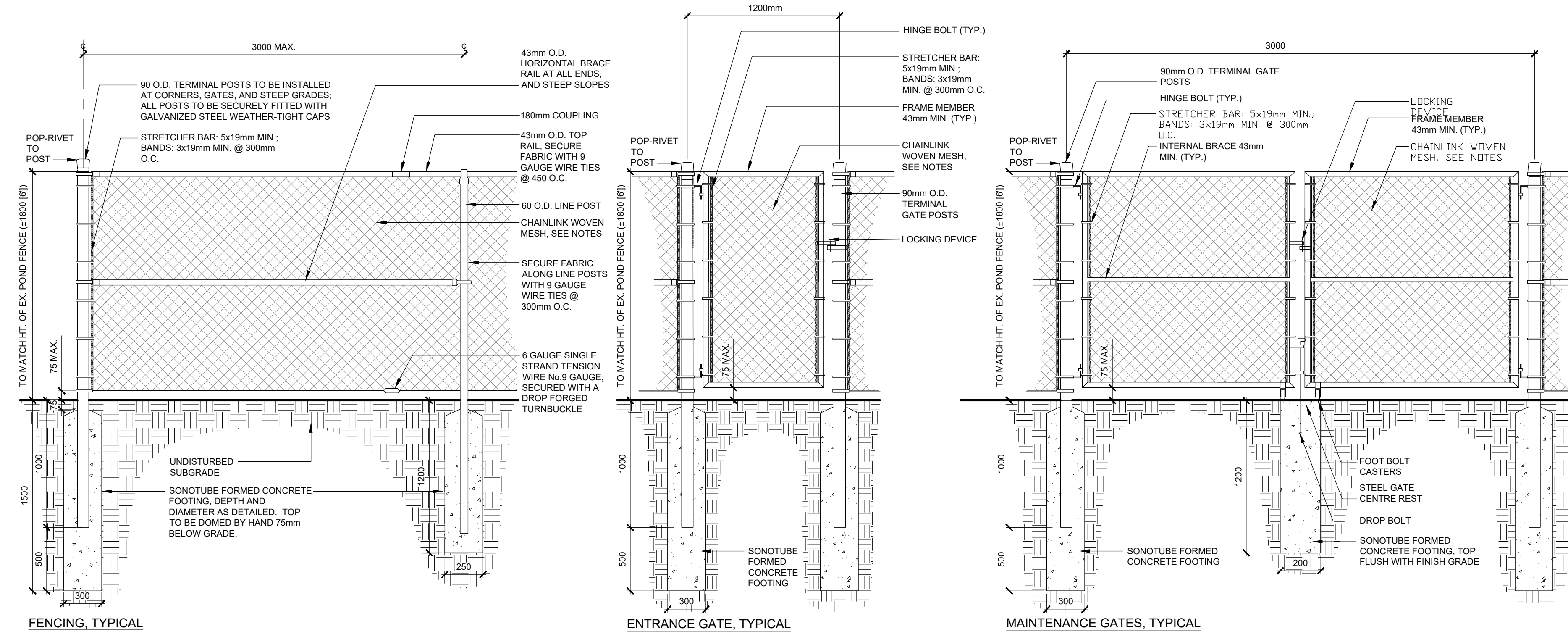
HEIGHT: 33.5" (85.1cm) LENGTH: 72" (182.7cm) DEPTH: 24.8" (63.3cm) WEIGHT: 158.63lbs (72kg)

MAGLIN
Site Furniture

T 800 718 8008
F 877 292 5993
www.maglin.com
sales@maglin.com

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1 Bench
L3 N.T.S.



- FENCE AND GATE NOTES:**
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL
 2. ALL DIMENSIONS SHOWN IN MILLIMETRES, UNLESS STATED OTHERWISE
 3. ALL CHAIN LINK FABRIC TO BE WOVEN 50mm MESH, 1600 - No 9 GAUGE GALVANIZED STEEL CORE, SECURE TO FRAME, STRETCHER BAR AND BRACE RAIL WITH 9 GAUGE WIRE TIES AT 300mm O.C., KNUCKLED.
 4. ALL COMPONENTS TO BE GALVANIZED STEEL - NO PLASTIC FITTINGS OR COMPONENTS TO BE USED
 5. BOLT ENDS TO BE AT BACK OF GATE
 6. EACH GATE TO BE COMPLETE WITH WHEELS
 7. ALL JOINTS TO BE WELDED AND GROUND SMOOTH.
 8. CONCRETE FOOTINGS TO BE 30 MPa AT 28 DAYS
 9. FOR LINE POST CAP DETAIL REFER TO OPSD 972.132
 10. ALL TO BE BLACK VINYL COATED

3 Chain Link Fence and Gate
L3 1:25

MBR-0350-00001
Legacy # *MBR350-4-S*

300 SERIES

RED RAL 3002

MATERIALS: Bike Rack is constructed using H.S. steel tube, formed steel and solid steel angle.

FINISH: All steel components are protected with E-Coat rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces.

INSTALLATION: The bike rack is delivered pre-assembled. It is available with a surface mount installation.

TO SPECIFY: Select MBR-0350-00001
Choose:
- Powdercoat Color: **Red RAL 3002**

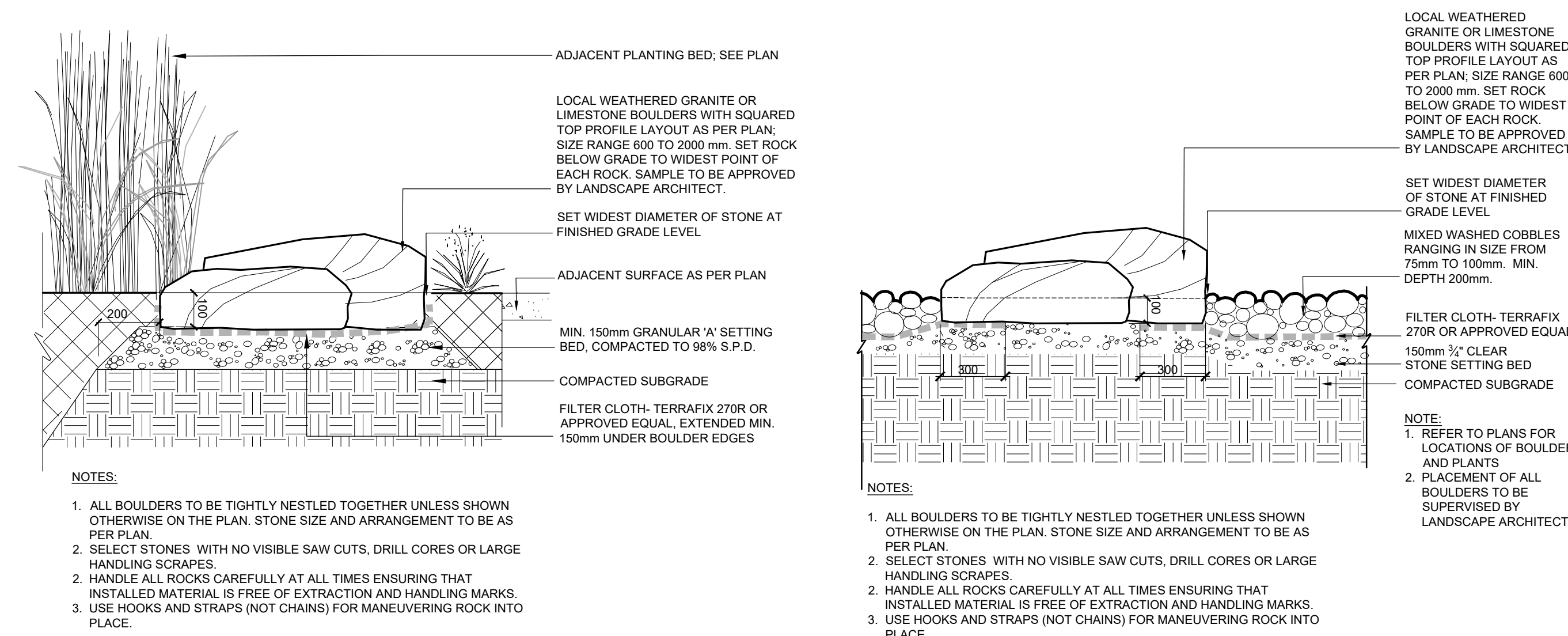
HEIGHT: 23.81" (60.48cm) LENGTH: 37.25" (94.62cm) DIAMETER: 24.63" (62.56cm) WEIGHT: 79.4 lbs (36kg)

MAGLIN
Site Furniture

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F 877 292 5993
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2 Bicycle Rack
L3 N.T.S.



4 Boulders in Planting Bed
L3 N.T.S.

5 Boulders and Cobbles
L3 N.T.S.

NO.	DATE	DESCRIPTION
1	2024-10-27	ISSUED FOR PERMIT
2	2024-10-27	ISSUED FOR PERMIT
3	2024-10-27	ISSUED FOR PERMIT

NOT FOR CONSTRUCTION



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PROJECT No. 21-100
START DATE OCT.27.2021

CITY OF PETERBOROUGH
FIRE STATION NO. 2

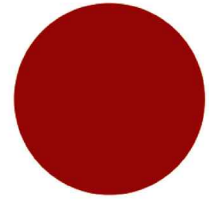
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON

ITEM	QTY	MODELNUMBER	APPROVED BY:
MPA-2600-00006	8	FLEXX PANEL, 4' W X 6' H, STEEL, LD1 - MATRIX	
MPA-2600-00022	2	FLEXX POST, 6' H, AL EXT, DRILLED 1 SIDE, SM	
MPA-2600-00024	6	FLEXX POST, 6' H, AL EXT, DRILLED 2 SIDES, SM	
MPA-2600-00026	1	FLEXX POST, 6' H, 90° COR., AL EXT, DRILLED 2 SIDES, SM	

DATE:	
-------	--



MAGLIN FLEXX QUOTE
#MPA2600-43236



Powdercoat:
Red RAL 3002

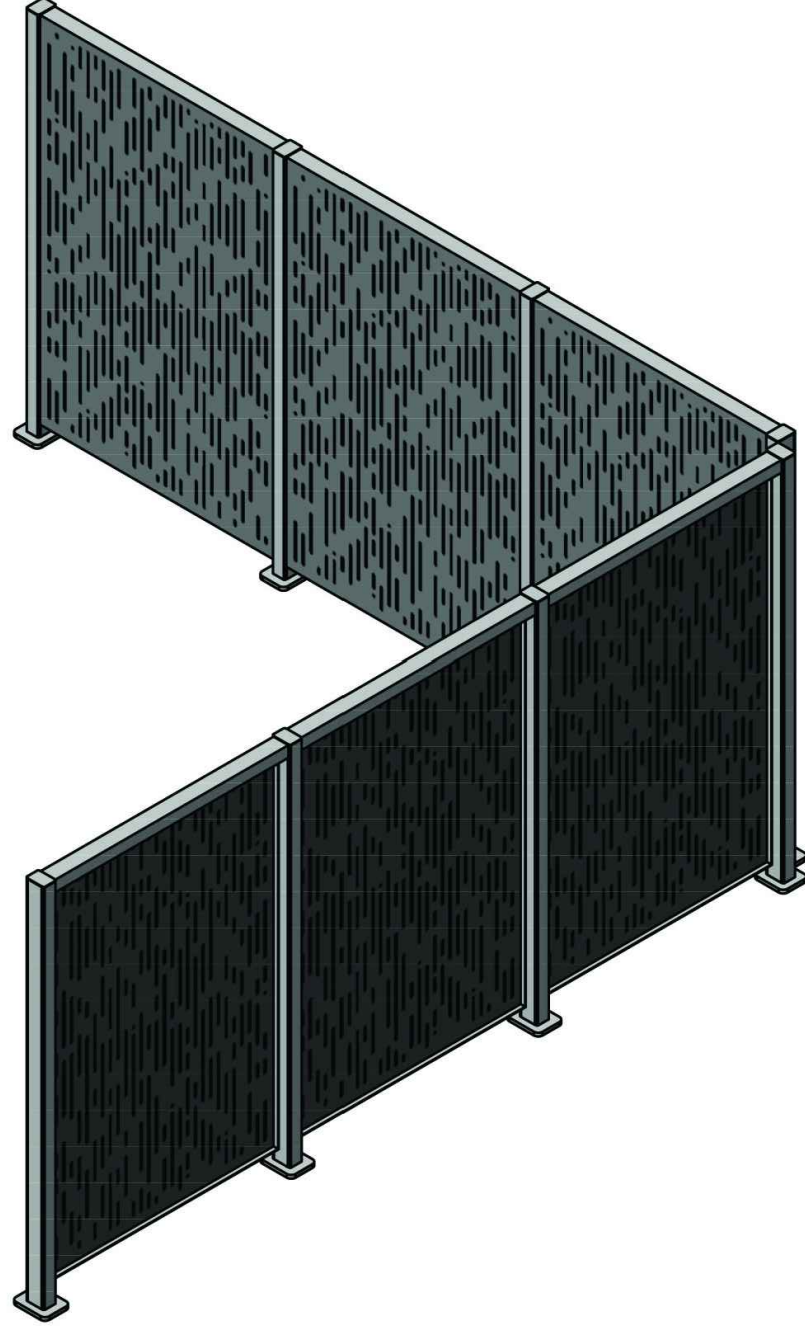
Perforation Type
to be Approved

* PLEASE NOTE COLORS IN THIS DRAWING DO NOT REFLECT YOUR ORDER

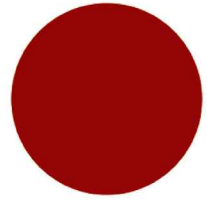
MAGLIN MAGLIN SITE FURNITURE WWW.MAGLIN.COM TEL: 800-716-5506 FAX: 877-260-9393	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAGLIN SITE FURNITURE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAGLIN SITE FURNITURE IS PROHIBITED.	TITLE: FLEXX LAYOUT, 43236	DATE: 4/8/2022
	LAYOUT #: MPA2600-43236	WEIGHT: 1068.48 LBS	SHEET: 1 OF 2

ITEM	QTY	MODELNUMBER	APPROVED BY:
MPA-2600-00006	6	FLEXX PANEL, 4' W X 6' H, STEEL, LD1 - MATRIX	
MPA-2600-00022	2	FLEXX POST, 6' H, AL EXT, DRILLED 1 SIDE, SM	
MPA-2600-00024	4	FLEXX POST, 6' H, AL EXT, DRILLED 2 SIDES, SM	
MPA-2600-00026	1	FLEXX POST, 6' H, 90° COR., AL EXT, DRILLED 2 SIDES, SM	

DATE:	
-------	--



MAGLIN FLEXX QUOTE
#MPA2600-43239



Powdercoat:
Red RAL 3002

Perforation Type
to be Approved

* PLEASE NOTE COLORS IN THIS DRAWING DO NOT REFLECT YOUR ORDER

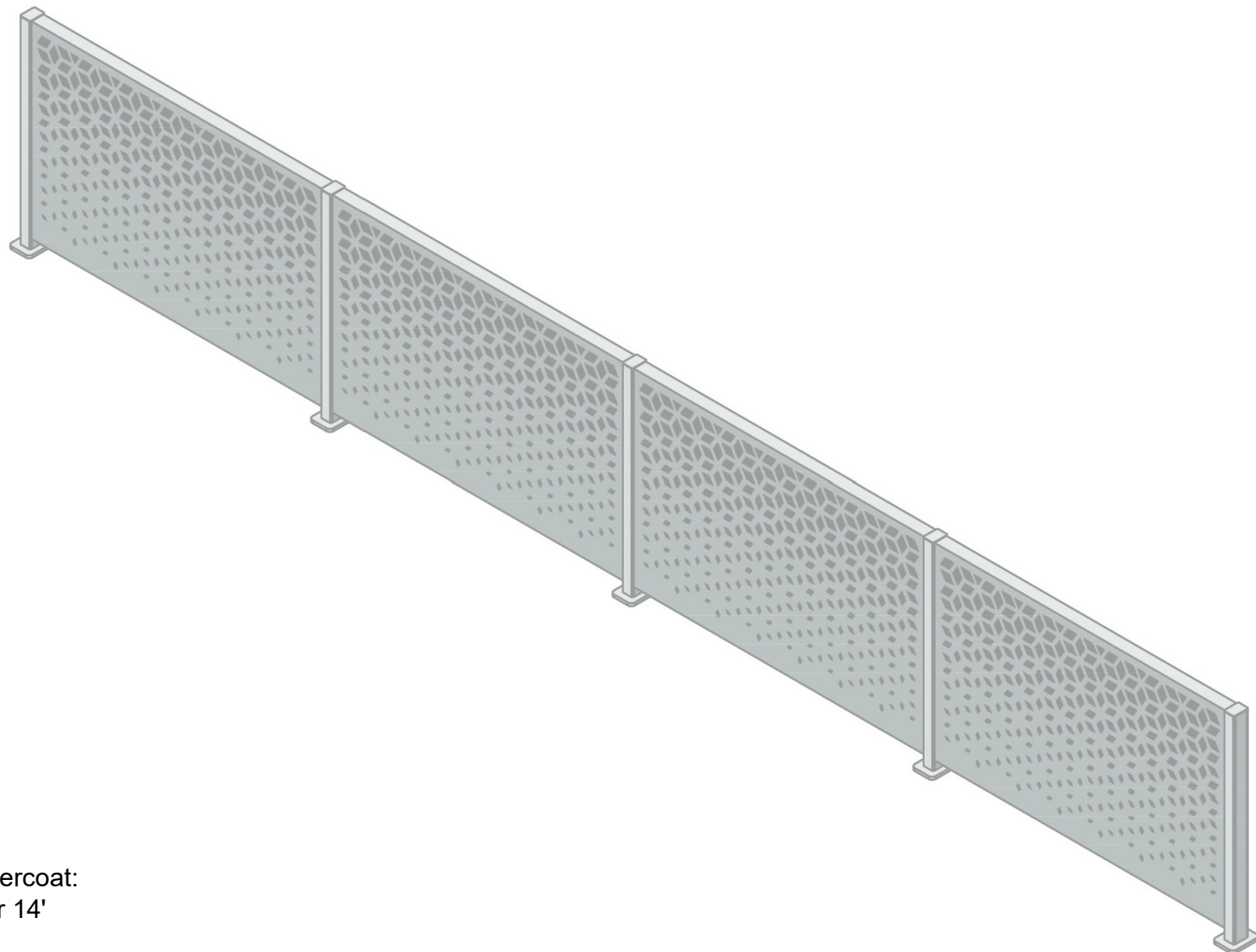
MAGLIN MAGLIN SITE FURNITURE WWW.MAGLIN.COM TEL: 800-716-5506 FAX: 877-260-9393	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAGLIN SITE FURNITURE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAGLIN SITE FURNITURE IS PROHIBITED.	TITLE: FLEXX LAYOUT, 43239	DATE: 4/8/2022
	LAYOUT #: MPA2600-43239	WEIGHT: 818.3 LBS	SHEET: 1 OF 2

1 Steel Privacy Screen
L4 N.T.S.

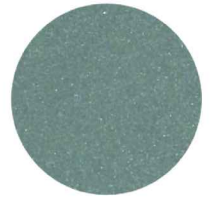
4 Steel Privacy Screen
L4 N.T.S.

ITEM	QTY	MODELNUMBER	APPROVED BY:
MPA-2600-00012	4	FLEXX PANEL, 6' W X 4' H, STEEL, LD2 - FUSION	
MPA-2600-00021	2	FLEXX POST, 4' H, AL EXT, DRILLED 1 SIDE, SM	
MPA-2600-00023	3	FLEXX POST, 4' H, AL EXT, DRILLED 2 SIDES, SM	

DATE:	
-------	--



MAGLIN FLEXX QUOTE
#MPA2600-43236



Powdercoat:
'Silver 14'

Perforation Type
to be Approved

* PLEASE NOTE COLORS IN THIS DRAWING DO NOT REFLECT YOUR ORDER

MAGLIN MAGLIN SITE FURNITURE WWW.MAGLIN.COM TEL: 800-716-5506 FAX: 877-260-9393	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAGLIN SITE FURNITURE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAGLIN SITE FURNITURE IS PROHIBITED.	TITLE: FLEXX LAYOUT, 48658	DATE: 6/30/2022
	LAYOUT #: MPA2600-48658	WEIGHT: 497.46 LBS	

3 Steel Screen
L4 N.T.S.

ISSUE / REVISIONS

1	Revised for Pricing	April 2022
2	Revised for Site Plan Application	June 2022
3	Revised for Tender	July 2022

NOT FOR
CONSTRUCTION



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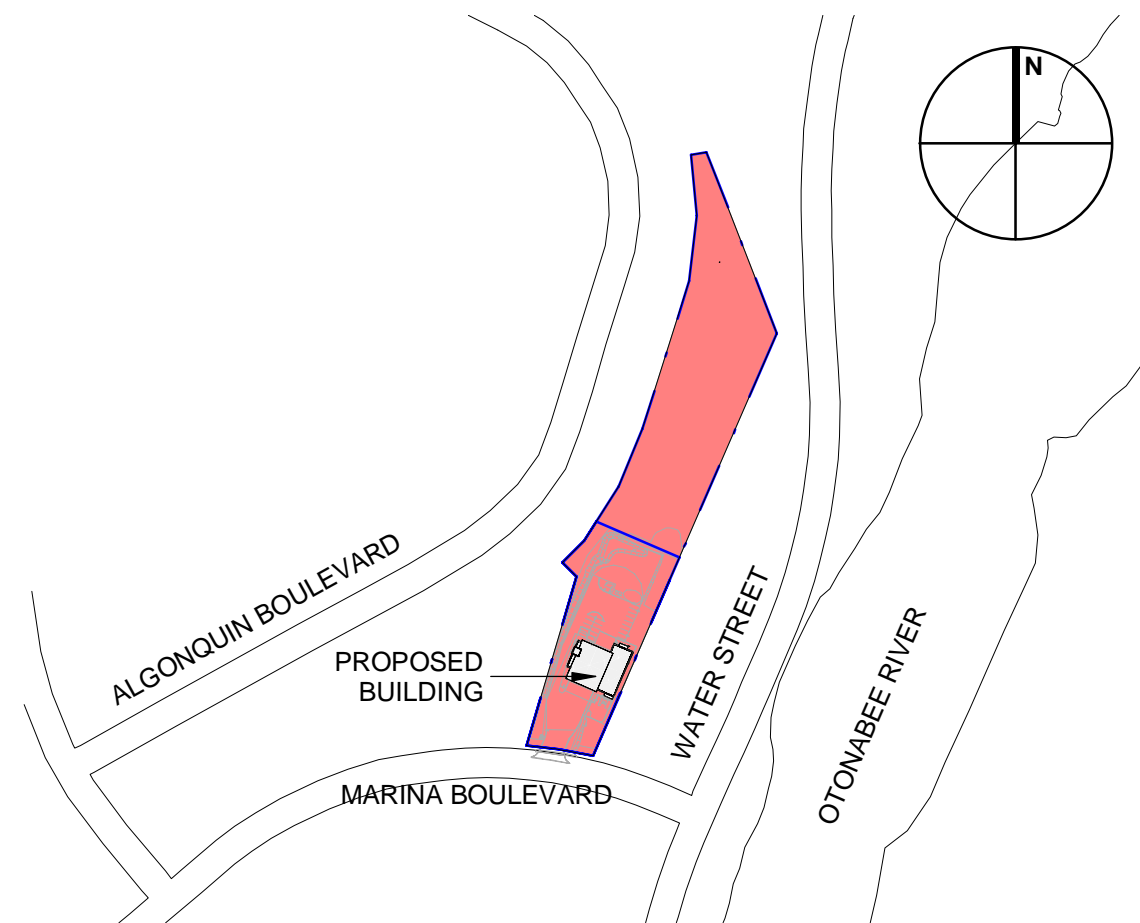
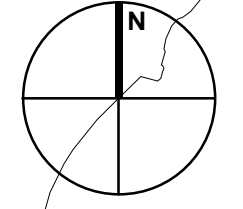
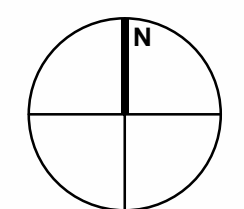
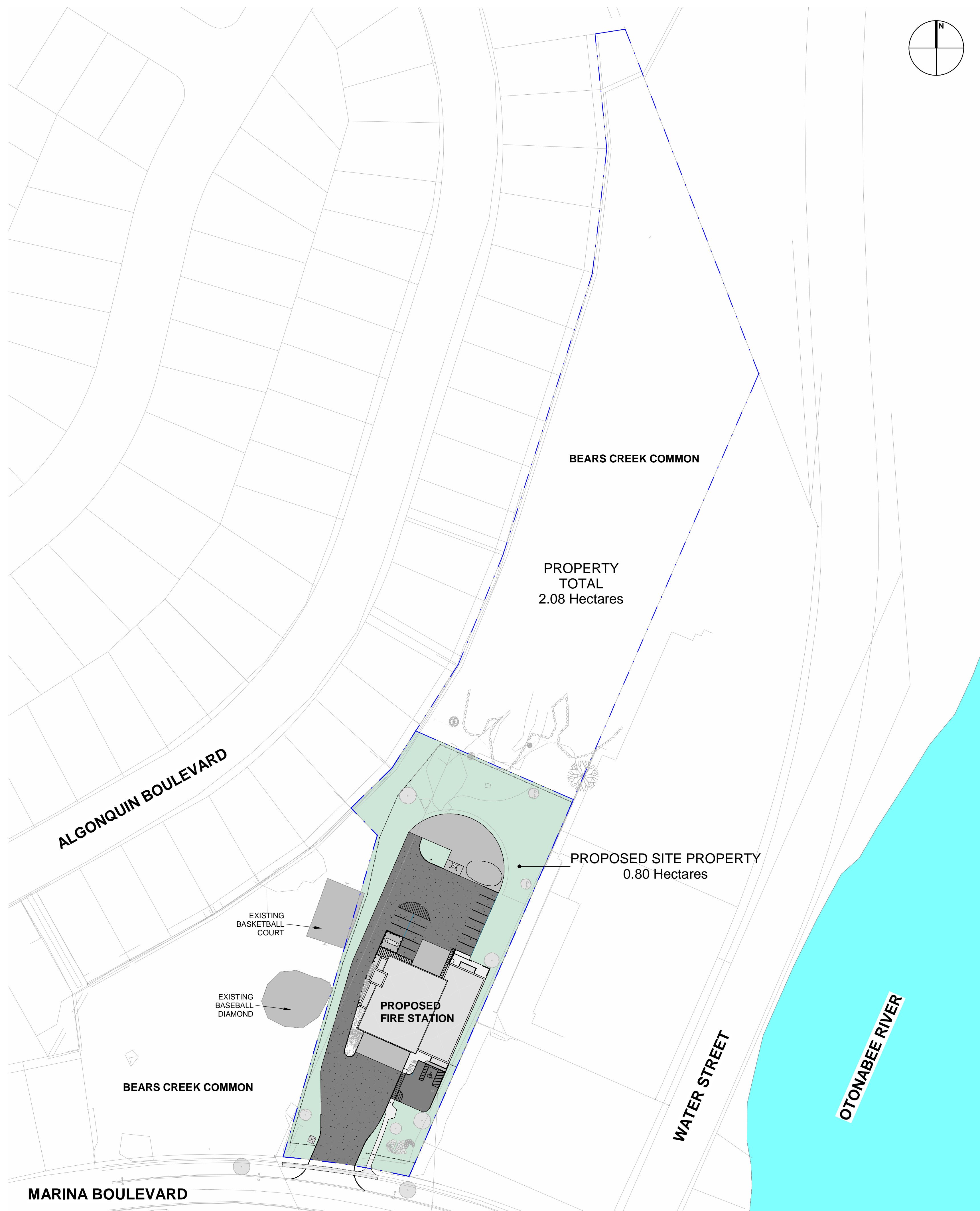
CONSTRUCTION DOCUMENTATION
PROJECT No. 21-100
START DATE OCT. 27. 2021

CITY OF PETERBOROUGH
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON

LANDSCAPE DETAILS

L4



2 KEY PLAN

AS-101 REF: NTS

1 SITE PLAN - OVERALL

AS-101 REF: Scale: 1 : 750

LEGAL DESCRIPTION & SITE STATISTICS

SCOPE OF PROJECT:

THE SITE IS LOCATED NEAR THE INTERSECTION OF MARINA BOULEVARD AND WATER STREET, TO THE EAST OF EDMISON HEIGHTS AND WEST OF RIVERVIEW MANOR. THE LONG, NARROW SITE IS ABOUT 2 HECTARES IN SIZE AND FRONTS ONTO MARINA BOULEVARD. VEHICULAR ACCESS WILL BE FROM THIS STREET VIA A TWO-WAY DRIVE AISLE. THE DRIVEWAY AND PARKING AREAS HAVE BEEN SIZED TO FACILITATE THE ACTIVITIES OF THE FIRE TRUCKS ON SITE, INCLUDING ACCESS TO THE DRIVE-THROUGH BAYS, SPACE FOR TRUCKS TO BE PARKED OUT FRONT, AND TO ALLOW FOR FIRE TRUCKS TO PARTICIPATE IN TRAINING EXERCISES.

A SMALL PARKING LOT HAS BEEN PROVIDED IN THE FRONT OF THE BUILDING FOR VISITORS, WHICH INCLUDES ONE REGULAR AND ONE ACCESSIBLE PARKING SPACE. THE REGULAR PARKING SPACE IS ADJACENT TO AN ACCESS AISLE, AND SO IS ABLE TO FUNCTION THE SAME AS A TYPE B ACCESSIBLE PARKING SPACE IF THE MARKED TYPE A SPACE IS ALREADY TAKEN. THE VISITOR PARKING LOT WILL BE IDENTIFIED WITH SIGNAGE. THE REAR PARKING LOT IS FOR STAFF, AND CONTAINS 16 SPACES IN ORDER TO BE ABLE TO ACCOMMODATE THE LARGER VOLUME OF VEHICLES AT SHIFT CHANGE TIMES.

THE SITE ALSO INCLUDES A DRAFTING PIT FOR TRAINING, AND A FUELING STATION.

LOCATION:

ADDRESS: 100 MARINA BLVD
 LOT: PART OF BLOCK B, CITY OF PETERBOROUGH
 CONCESSION: N/A
 P.I.N.: 28128-0049 (LT)
 NEAREST INTERSECTION: MARINA BLVD AND WATER STREET
 EXISTING EASEMENTS: 1.52-WIDE BELL CANADA EASEMENT AS IN INST. NO. R182153
 REGISTERED PLAN NO. 227
 SURVEY PREPARED BY ELLIOTT AND PARR (PETERBOROUGH) LTD.
 AUGUST 23, 2021
 211 SHERBROOKE STREET, PETERBOROUGH, ONTARIO, K9J 7H4
 P: (705)-745-8444

ZONING STATISTICS:

ZONING: PS.2 PUBLIC SERVICE DISTRICT

MINIMUM LOT WIDTH:		
PROVIDED:	44.4m	
REQUIRED:	18m	
MINIMUM LOT DEPTH:		
PROVIDED:	356.3m	
REQUIRED:	30m	
MAXIMUM BUILDING COVERAGE (BUILDING FLOOR AREA):		
PROVIDED:	4.8% OF TOTAL PROPERTY AREA	
PROVIDED:	12.5% OF PROPOSED SITE PROPERTY AREA	
REQUIRED:	40% OF TOTAL LOT AREA	
PAVED AREA COVERAGE:		
PROVIDED:	13.9% OF TOTAL PROPERTY AREA	
PROVIDED:	36.2% OF PROPOSED SITE PROPERTY AREA	
LANDSCAPE AREA COVERAGE:		
PROVIDED:	81.3% OF TOTAL PROPERTY AREA	
PROVIDED:	51.3% OF PROPOSED SITE PROPERTY AREA	
MINIMUM BUILDING SETBACK FROM SIDE OR REAR LOT LINES:		
PROVIDED:	VARIABLES (3m MIN.)	
REQUIRED:	3m	
MINIMUM WIDTH OF LANDSCAPED OPEN SPACE TO BE ESTABLISHED AND MAINTAINED ALONG ALL LOT LINES (EXCEPT WHERE INTERRUPTED BY DRIVEWAYS):		
PROVIDED:	VARIABLES (3m MIN.)	
REQUIRED:	3m	

BUILDING HEIGHT:
 11.40m (37.4 FT.) TOP OF HOSE TOWER ROOF

SITE AREA		
Name	Area	Area ha
PROPERTY	20,823.43 m ²	2.08 hectare
PROPOSED SITE PROPERTY	8,021.46 m ²	0.80 hectare

GROSS BUILDING AREA		
Name	Area	Area ft ²
BUILDING AREA	1,000.86 m ²	10,773 ft ²

SITE HARDSCAPES AREA		
Description	Area	
CONC. APRON		71.30 m ²
CONC. SLAB ON GRADE		247.02 m ²
ASPHALT - HEAVY DUTY		2,136.73 m ²
ASPHALT - LIGHT DUTY		196.84 m ²
CONCRETE PAD		70.31 m ²

PARKING STATISTICS:

NOTWITHSTANDING THE PROVISIONS OF SECTION 4.2, MINIMUM NUMBER OF MOTOR VEHICLE PARKING SPACES TO BE PROVIDED AND MAINTAINED:

1.5 PER STAFF.
 EMPLOYEES = 8 PERSONS
 REQUIRED: 12
 PROVIDED: 18

ACCESSIBLE PARKING SPACES
 REQUIRED: 1 TYPE B
 PROVIDED: 1 TYPE A (VAN ACCESSIBLE PARKING SPACE)

NOTE: THE SECOND VISITOR PARKING SPACE IS NOT A DESIGNATED ACCESSIBLE PARKING SPACE HOWEVER IT IS THE SIZE OF A TYPE B ACCESSIBLE PARKING SPACE AND IS ADJACENT TO AN ACCESS AISLE.

ISSUE / REVISIONS

1	Issued for Site Plan Application	Jan.28.22
2	Issued for Building Permit	Mar.21.22
6	Issued for Tender	Aug.18.22

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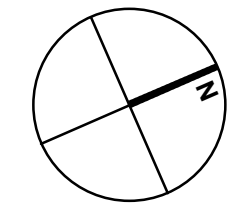
CONSTRUCTION DOCUMENTATION
 PROJECT No. 21-100
 START DATE OCT.27.2021

City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
 100 Marina Boulevard, Peterborough ON

OVERALL SITE PLAN AND LEGEND

AS-101



SITE SIGNAGE	
ID	DESCRIPTION
BFV	BARRIER FREE SIGN
FR	FIRE ROUTE SIGN POST
LZ	LOADING ZONE SIGN
NE	NO ENTRY SIGN POST
S	STOP SIGN
WS	SITE WAYFINDING SIGN POST
X	PEDESTRIAN CROSSING

BUILDING ENTRANCE LEGEND

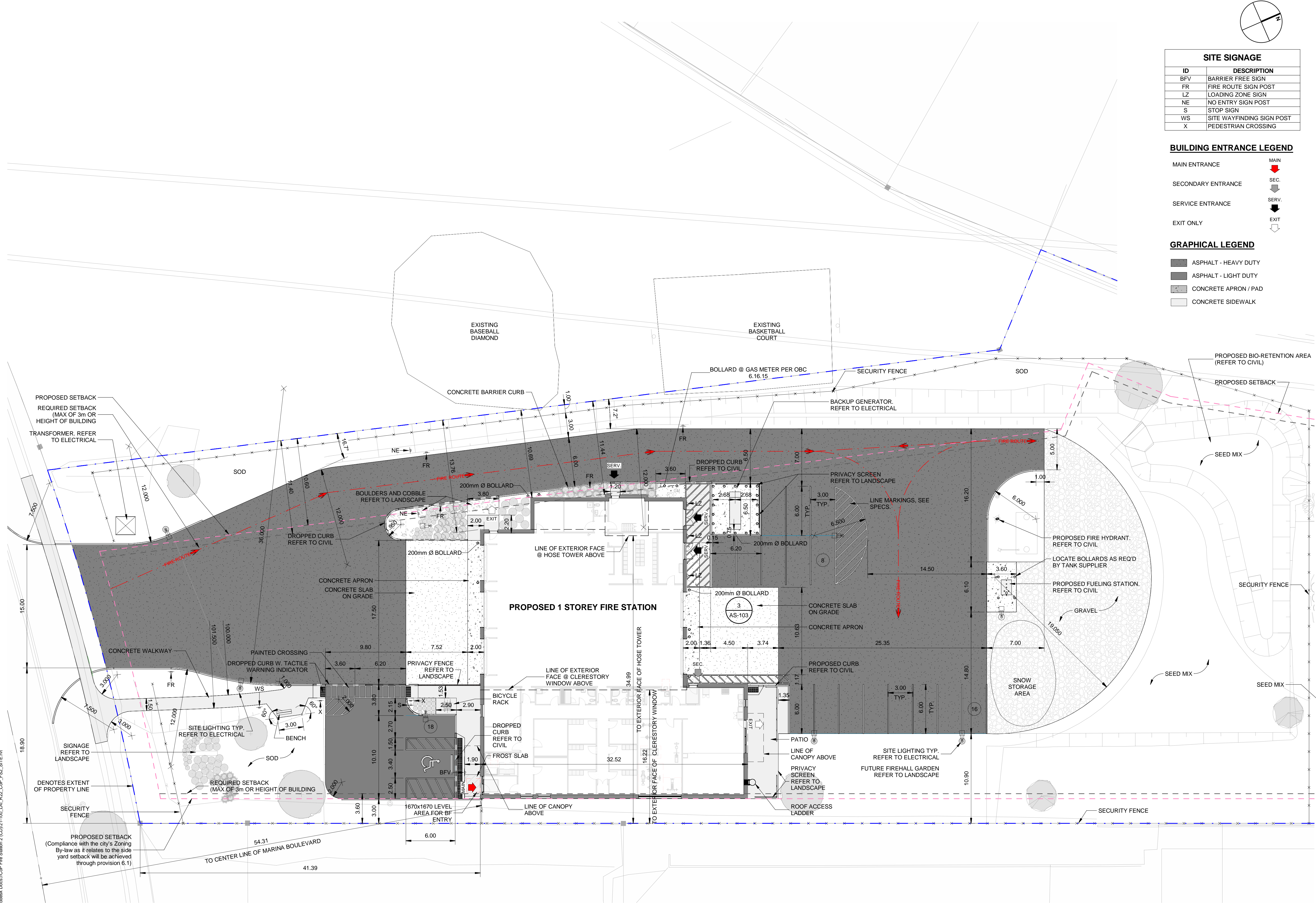
MAIN ENTRANCE	MAIN
SECONDARY ENTRANCE	SEC.
SERVICE ENTRANCE	SERV.
EXIT ONLY	EXIT

GRAPHICAL LEGEND

[Pattern]	ASPHALT - HEAVY DUTY
[Pattern]	ASPHALT - LIGHT DUTY
[Pattern]	CONCRETE APRON / PAD
[Pattern]	CONCRETE SIDEWALK

ISSUE / REVISIONS

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4	Issued for Building Permit Response	Apr.25.22
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CONSTRUCTION DOCUMENTATION

PROJECT No. 21-100
START DATE OCT.27.2021

**City of Peterborough
FIRE STATION NO. 2**

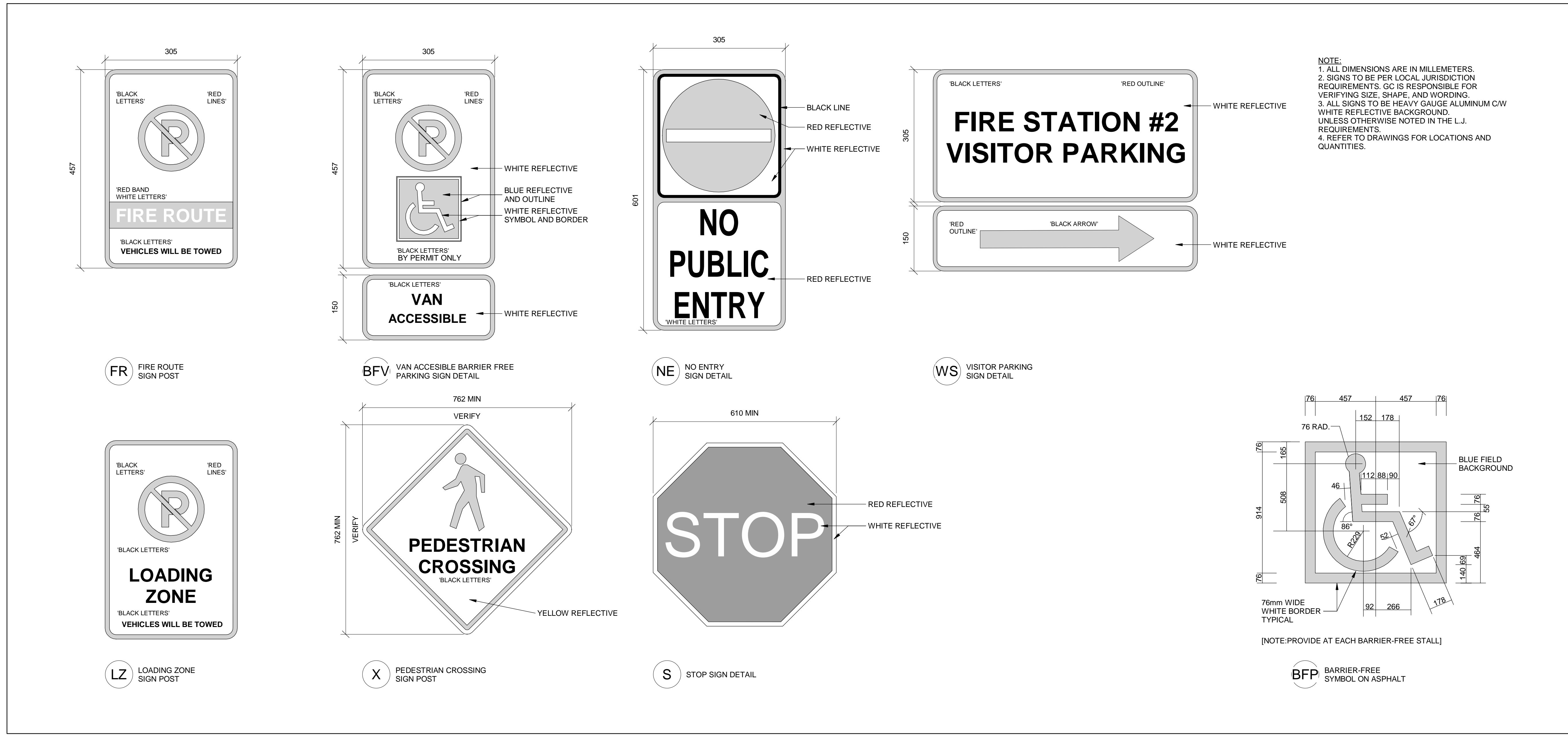
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON

SITE PLAN

AS-102

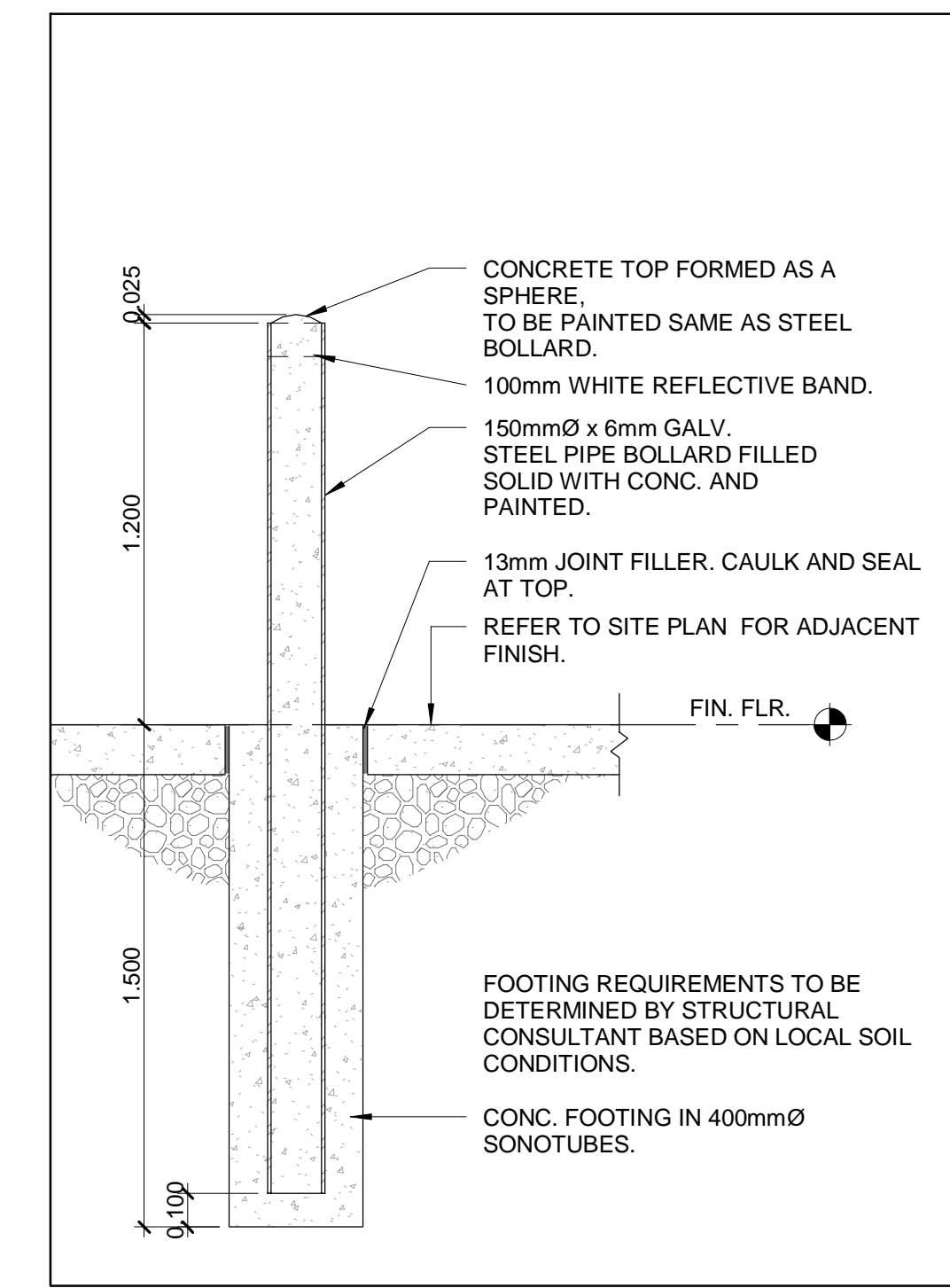
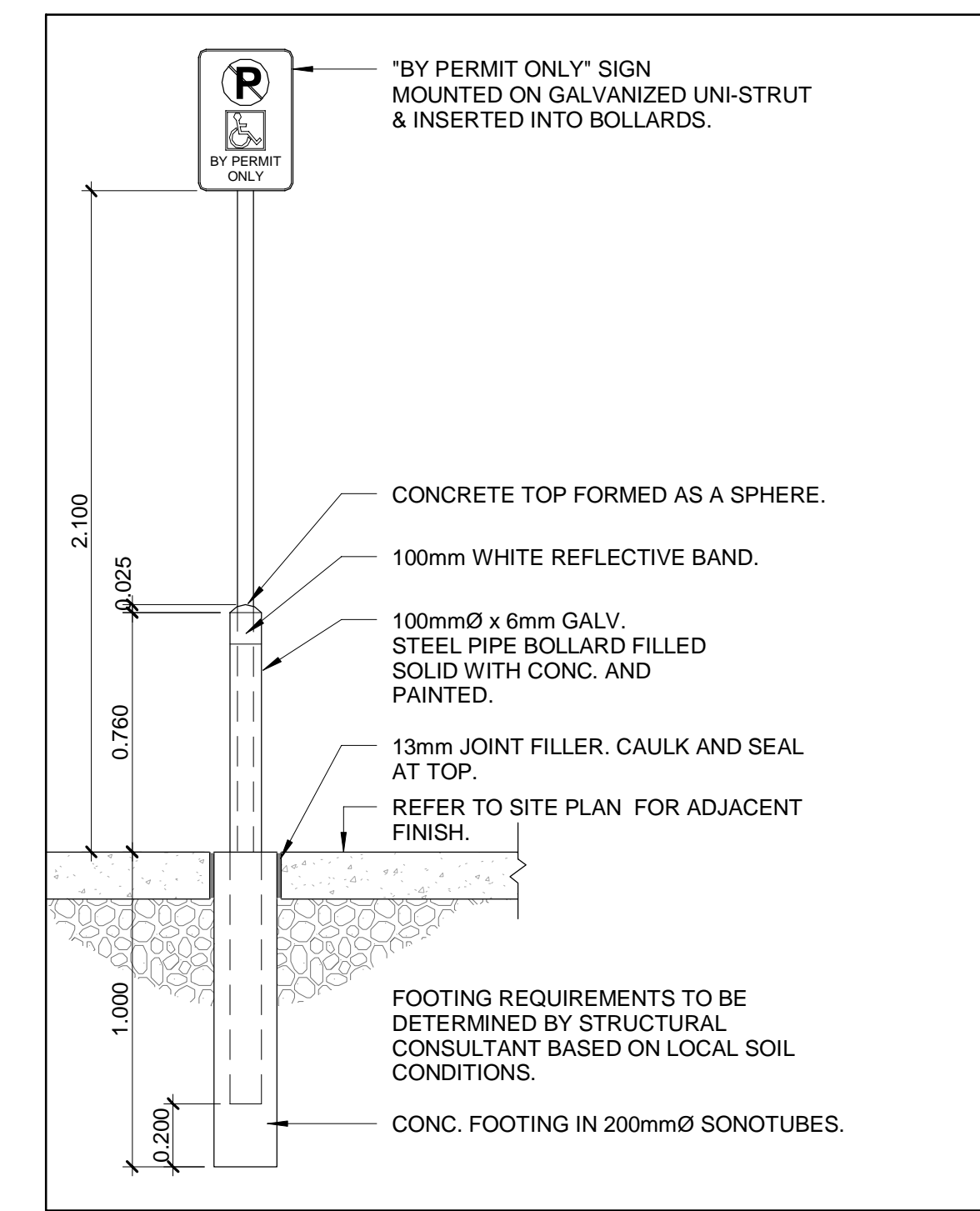
ISSUE / REVISIONS

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1 | DETAIL - SITE SIGN DESIGNATIONS

AS-103 | REF: Scale: 1 : 5



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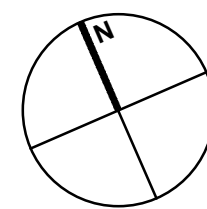
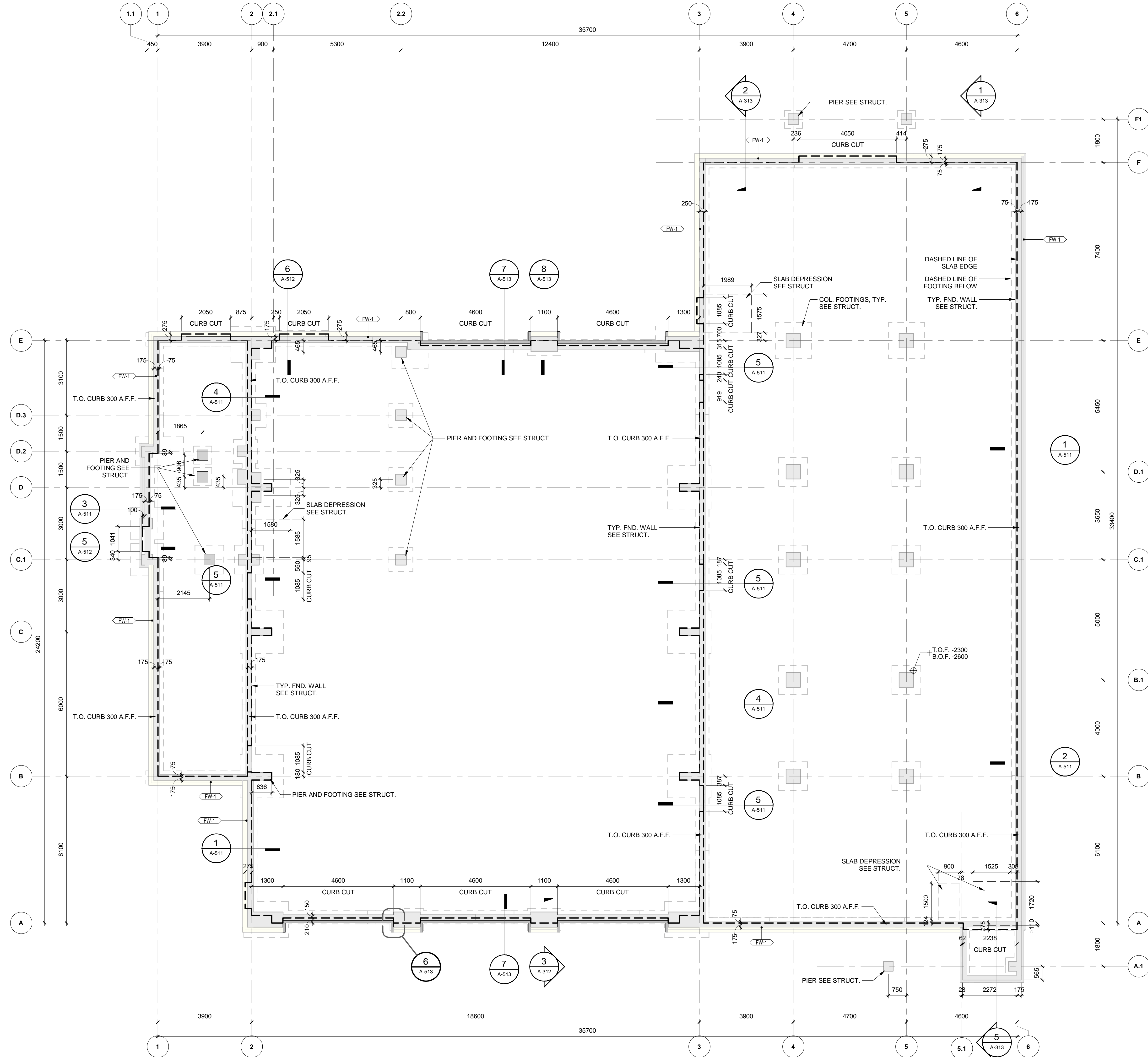
CONSTRUCTION DOCUMENTATION

PROJECT No. 21-100
START DATE OCT.27.2021

City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON

SITE DETAILS



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CONSTRUCTION DOCUMENTATION

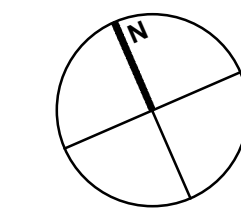
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City of Peterborough
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(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

FOUNDATION PLAN

A-100

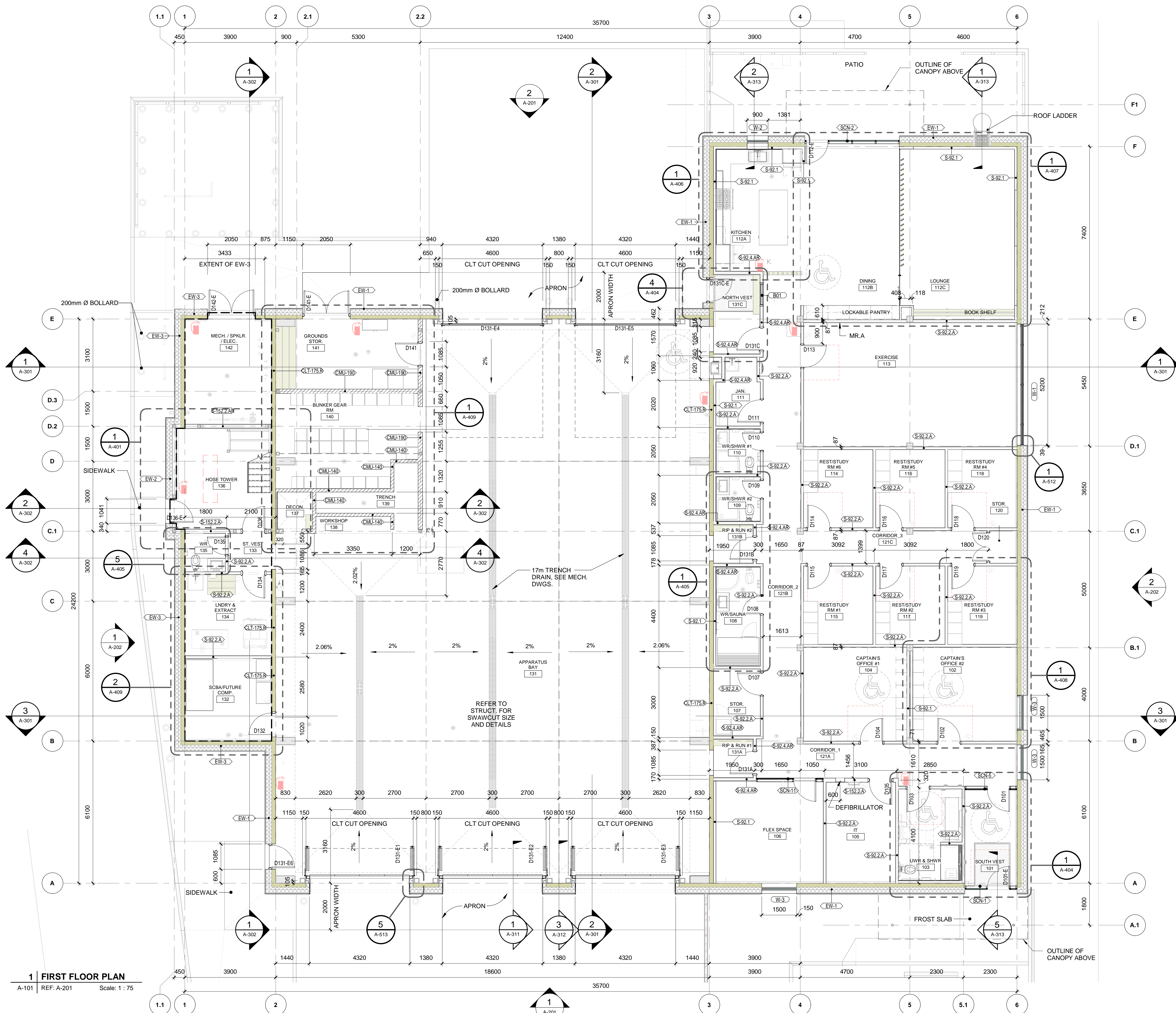


GENERAL NOTES

1. ROOF ANCHORS TO BE LOCATED ALONG BEAM LINES AND SPACED SO THAT THE MINIMUM NUMBER OF ANCHORS REQUIRED ARE INCLUDED.
2. ANCHOR LAYOUT FOR FALL RESTRAINT SYSTEM IN THESE DRAWINGS IS FOR DEMONSTRATION AND IS TO BE ADJUSTED TO THE SPECIFIC SYSTEM REQUIREMENTS
3. GC TO ENSURE CLT & MECH. TRADES COORDINATE PENETRATIONS AND FINAL DUCT SIZING/RUNS THROUGH CLT
4. CLT OPENINGS TO BE RATIONALIZED IN PANELS AND COORDINATED WITH OTHER TRADES
5. BULLNOSE CORNERS TO BE ON ALL EXPOSED CONCRETE BLOCK OPENINGS (TYP.)
6. EXTERIOR STEEL COLUMN TO BE GALVANIZED WITH PREMIUM GRADE PAINT FINISH
7. CLT PANELS FACING APPARATUS BAY AND CLT PANELS AT BUILDING PERIMETER FACING INTERIOR SHALL BE ARCHITECTURE FINISH.

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1 FIRST FLOOR PLAN
A-101 REF: A-201 Scale: 1 : 75

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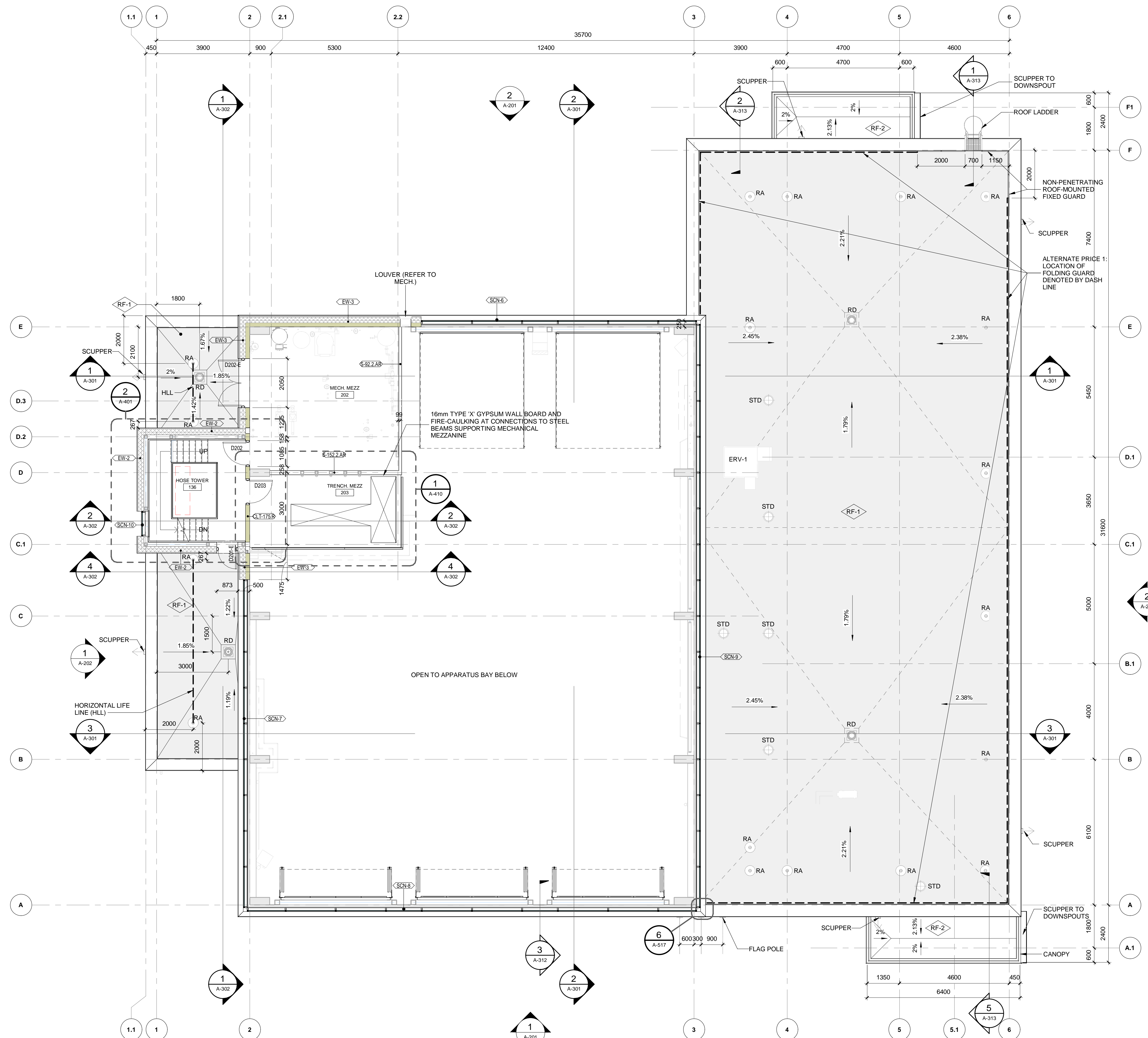
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FIRE STATION NO. 2

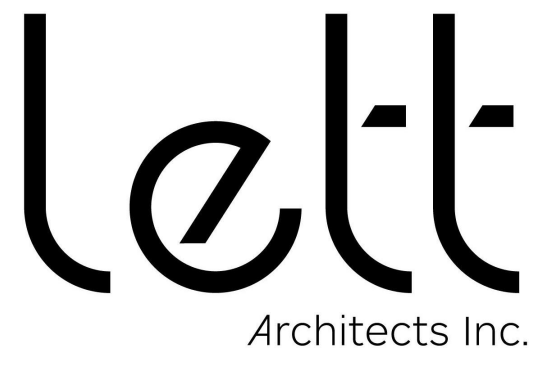
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100 Marina Boulevard, Peterborough ON
K9H 6M6

FIRST FLOOR PLAN

A-101



- GENERAL NOTES**
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138 Simcoe Street
Peterborough Ontario K9H 2H5
t. 705.743.3311
e. studio@lett.ca

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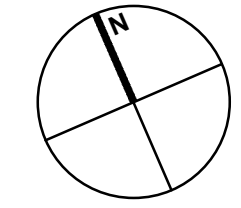
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

MEZZANINE PLAN

1 | 02 MEZZANINE
A-102 | REF: A-301 | Scale: 1 : 75

A-102

CEILING ASSEMBLIES				
TYPE	Type Image	DESCRIPTION	FRR (HOUR)	REMARKS
C-1		SUSPENDED GYPSUM CEILING		SUSPENDED
C-1.R		2 LAYER TYPE 'X' GYPSUM WALL BOARD CEILING AS PER OBC SB-2.2.3.12	1	SUSPENDED
C-2		ACOUSTIC TILE CEILING, 610x610		SUSPENDED
C-3		SALVAGED WOOD PLANK		SUSPENDED



SPECIFIC NOTES

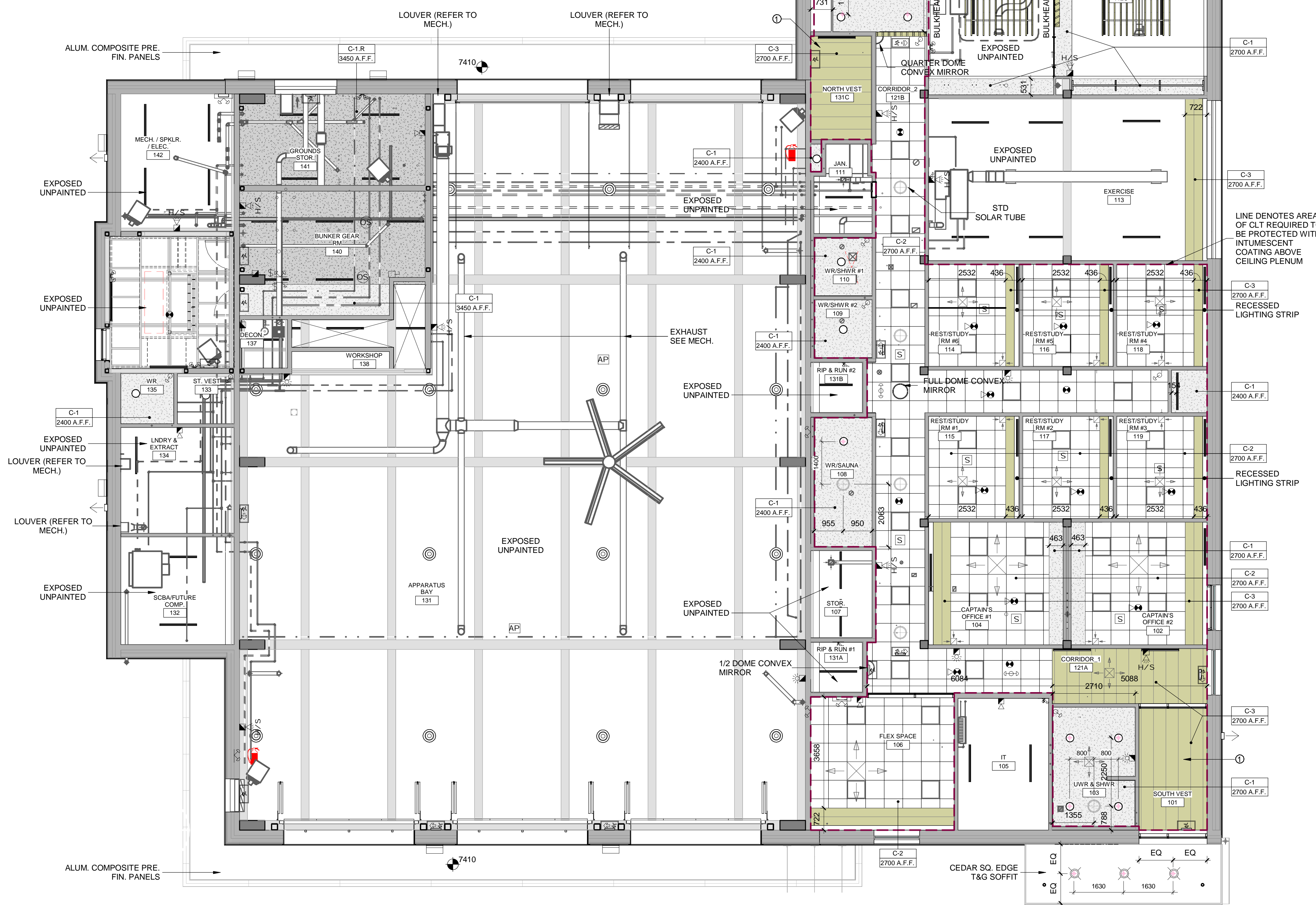
1. WOOD PLANK CEILING EXEMPTION TO FLAME SPREAD RATING ALLOWS 150 AS THIS AREA IS LESS THAN 10% OF THE TOTAL CEILING AREA PER OBC 3.1.13.2 (4).

GENERAL NOTES

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LINE DENOTES AREA OF CLT REQUIRED TO BE PROTECTED WITH INTUMESCENT COATING ABOVE CEILING PLENUM

RECESSED LIGHTING STRIP

RECESSED LIGHTING STRIP

LOUVER (REFER TO MECH.)

EYEHOOK WELDED @ 6" O.C. STAGGED ALONG THE LENGTH OF STEEL SUPPORT

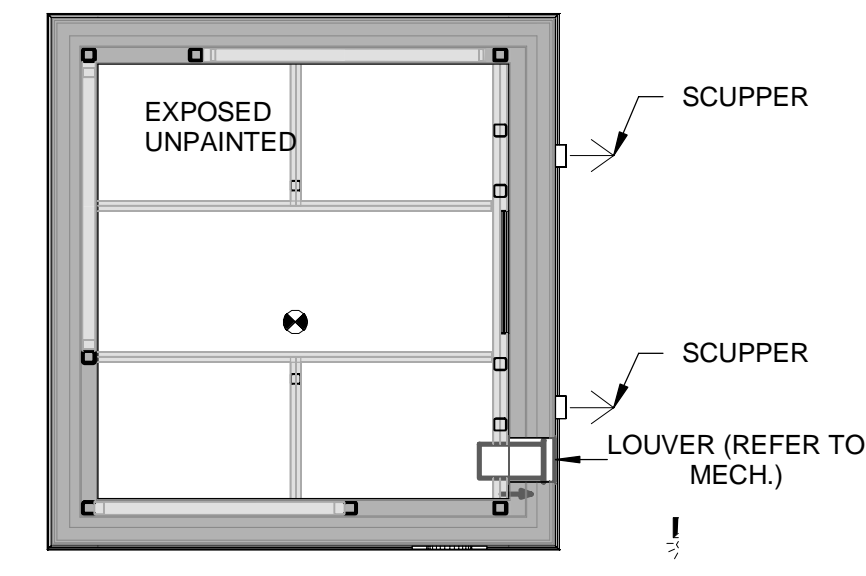
SCUPPER

SCUPPER

LOUVER (REFER TO MECH.)

1 | FIRST FLOOR RCP
 A-151 | REF: A-201 | Scale: 1 : 75

2 | MEZZANINE RCP
 A-151 | REF: A-301 | Scale: 1 : 75



3 | HOSE TOWER TOP LANDING RCP
 A-151 | REF: A-302 | Scale: 1 : 75



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CONSTRUCTION DOCUMENTATION

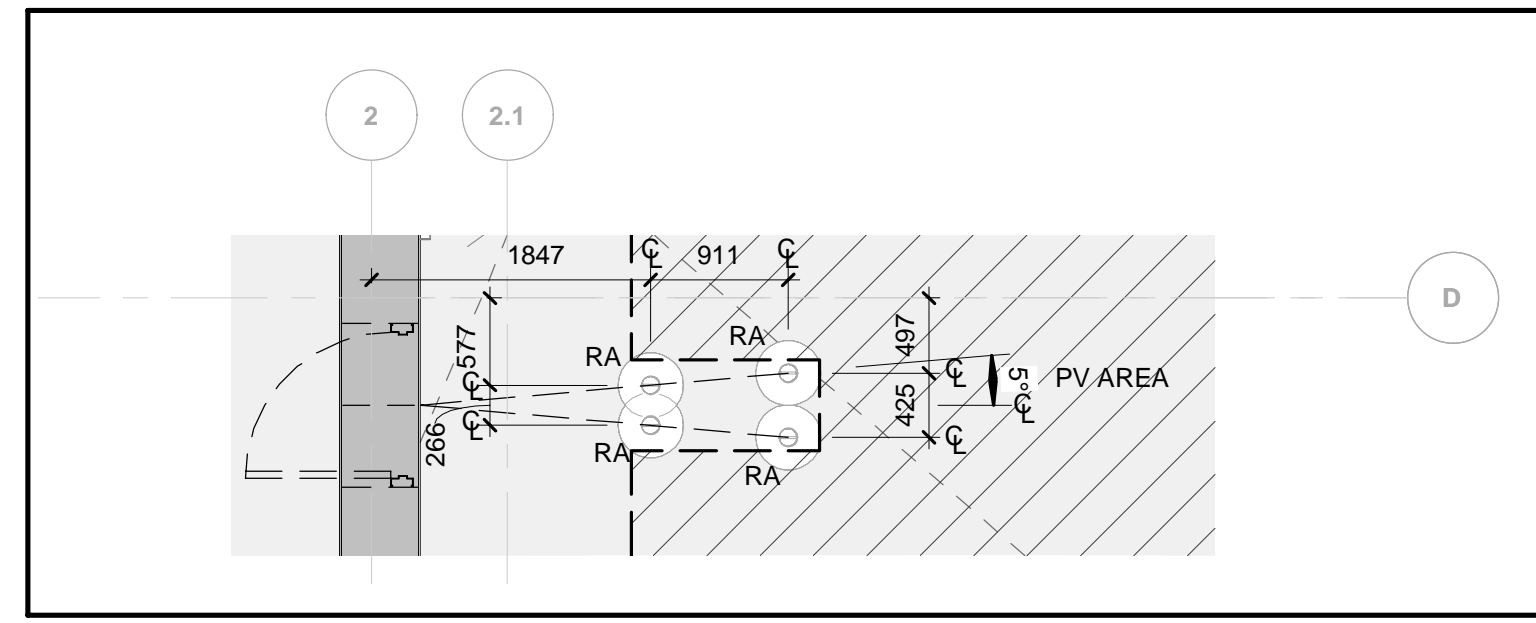
PROJECT No. 21-100
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**City of Peterborough
 FIRE STATION NO. 2**

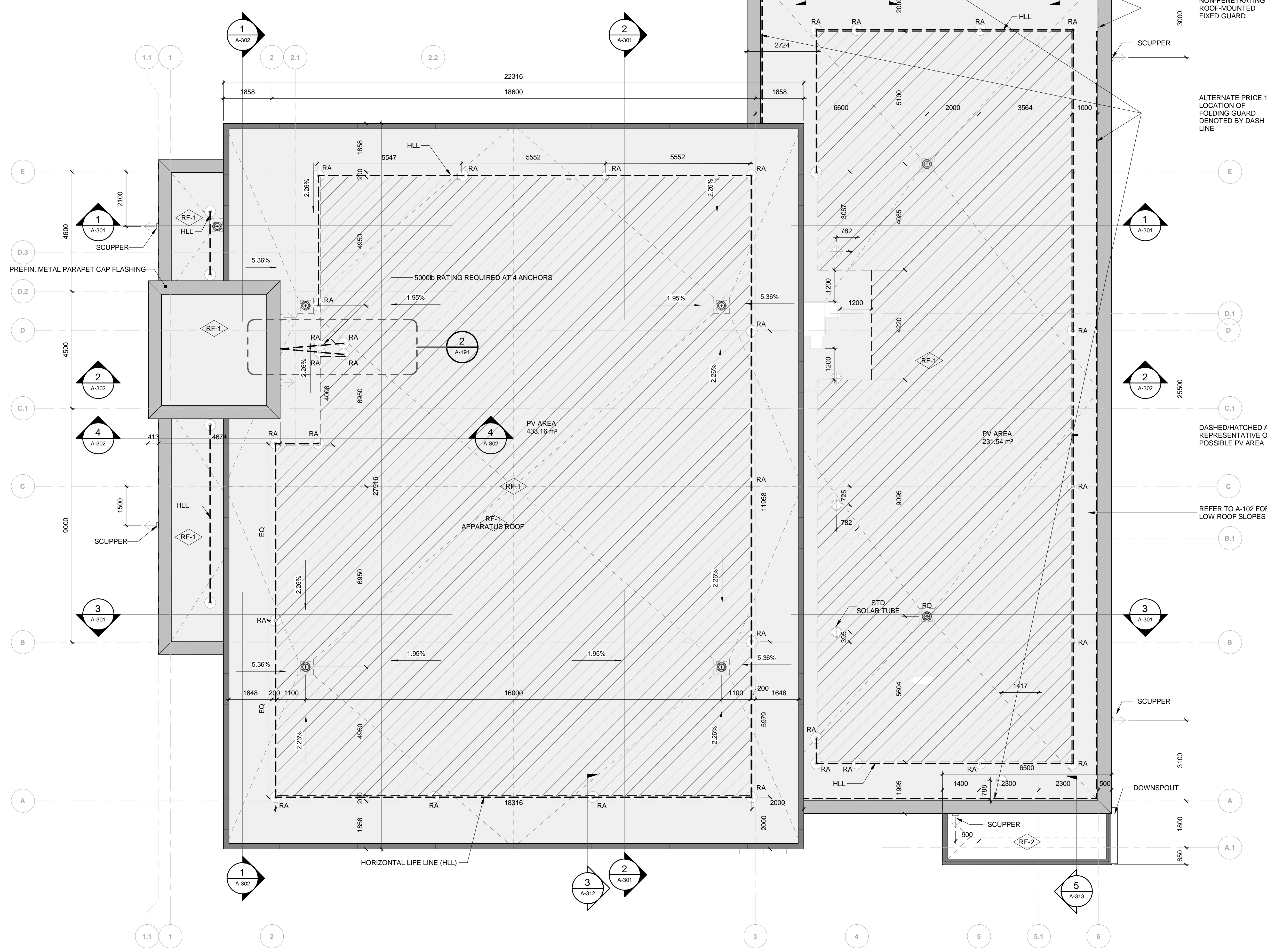
(Municipal File No. SPC 1009)
 100 Marina Boulevard, Peterborough ON
 K9H 6M6

**FIRST FLOOR &
 MEZZANINE - RCP**

A-151

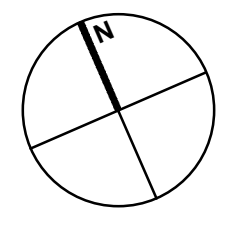


2 | ENLARGED PLAN - ROOF ANCHORS
 A-191 REF: A-191 Scale: 1:50



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1. ROOF ANCHORS TO BE LOCATED ALONG BEAM LINES AND SPACED SO THAT THE MINIMUM NUMBER OF ANCHORS REQUIRED ARE INCLUDED.
2. ANCHOR LAYOUT FOR FALL RESTRAINT SYSTEM IN THESE DRAWINGS IS FOR DEMONSTRATION AND IS TO BE ADJUSTED TO THE SPECIFIC SYSTEM REQUIREMENTS
3. GC TO ENSURE CLT & MECH. TRADES COORDINATE PENETRATIONS AND FINAL DUCT SIZING/RUNS THROUGH CLT
4. CLT OPENINGS TO BE RATIONALIZED IN PANELS AND COORDINATED WITH OTHER TRADES
5. BULLNOSE CORNERS TO BE ON ALL EXPOSED CONCRETE BLOCK OPENINGS (TYP.)
6. EXTERIOR STEEL COLUMN TO BE GALVANIZED WITH PREMIUM GRADE PAINT FINISH
7. CLT PANELS FACING APPARATUS BAY AND CLT PANELS AT BUILDING PERIMETER FACING INTERIOR SHALL BE ARCHITECTURE FINISH.



ISSUE / REVISIONS

Issue No.	Description	Date
1	Issued for Site Plan Application	Jan.28.22
2	Issued for Building Permit	Mar.21.22
3	Issued for Building Permit Response	Apr.25.22
4	Issued for Tender	Aug.18.22



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CONSTRUCTION DOCUMENTATION
 PROJECT No. 21-100
 START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
 100 Marina Boulevard, Peterborough ON
 K9H 6M6

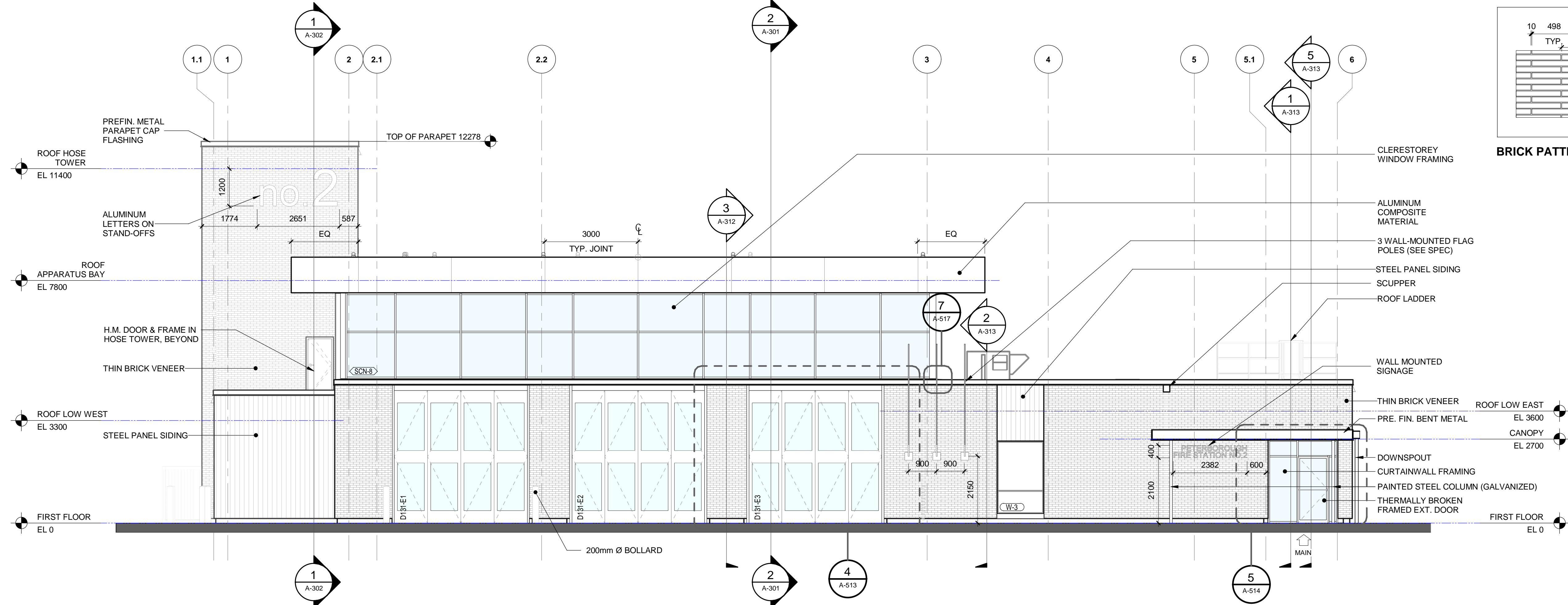
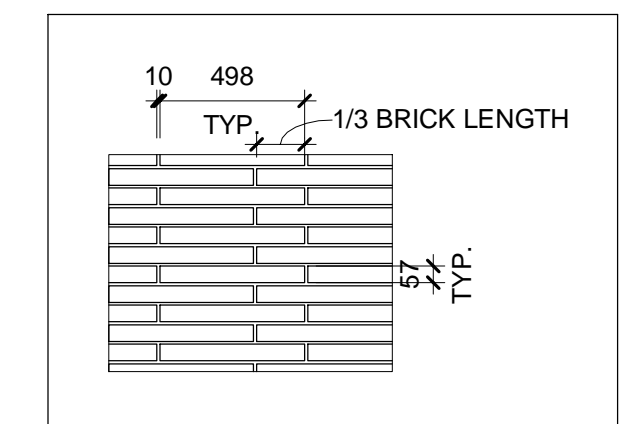
ROOF PLAN

A-191

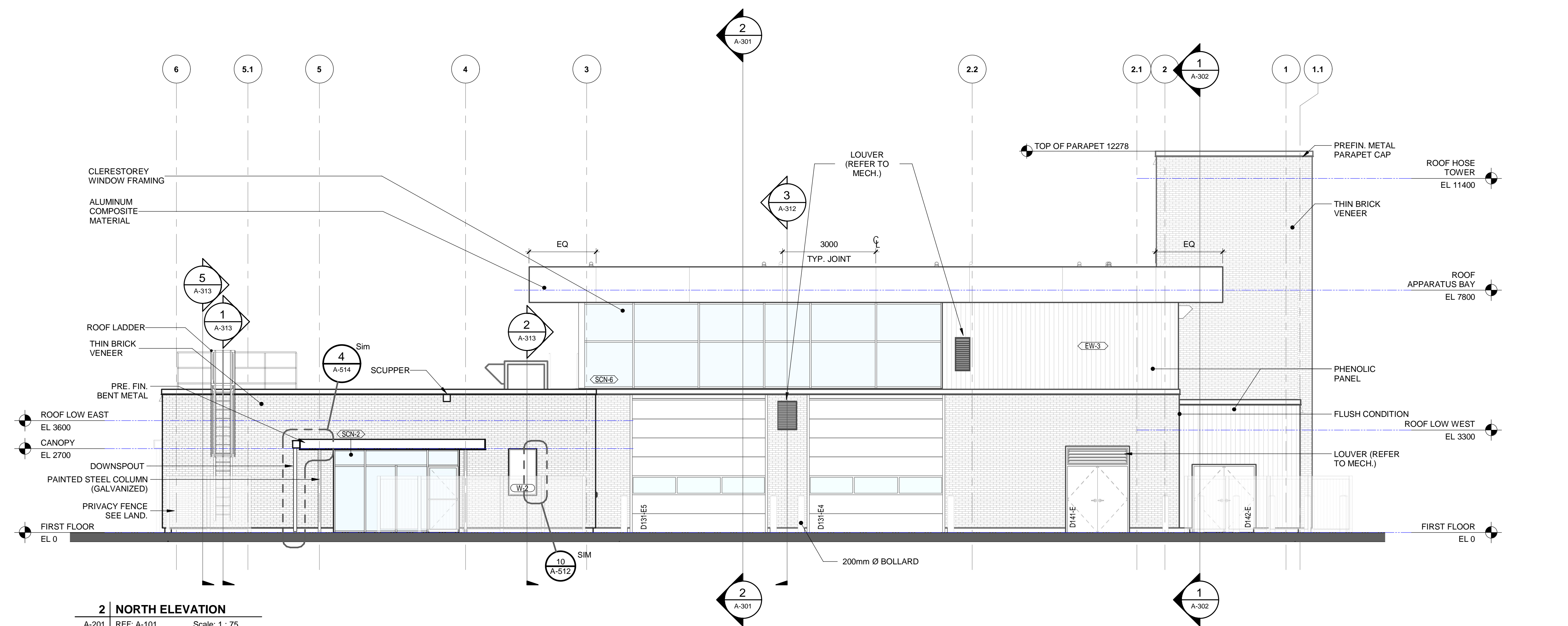
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BRICK PATTERN DETAIL



1 | SOUTH ELEVATION
A-201 | REF: A-101 | Scale: 1 : 75



2 | NORTH ELEVATION
A-201 | REF: A-101 | Scale: 1 : 75



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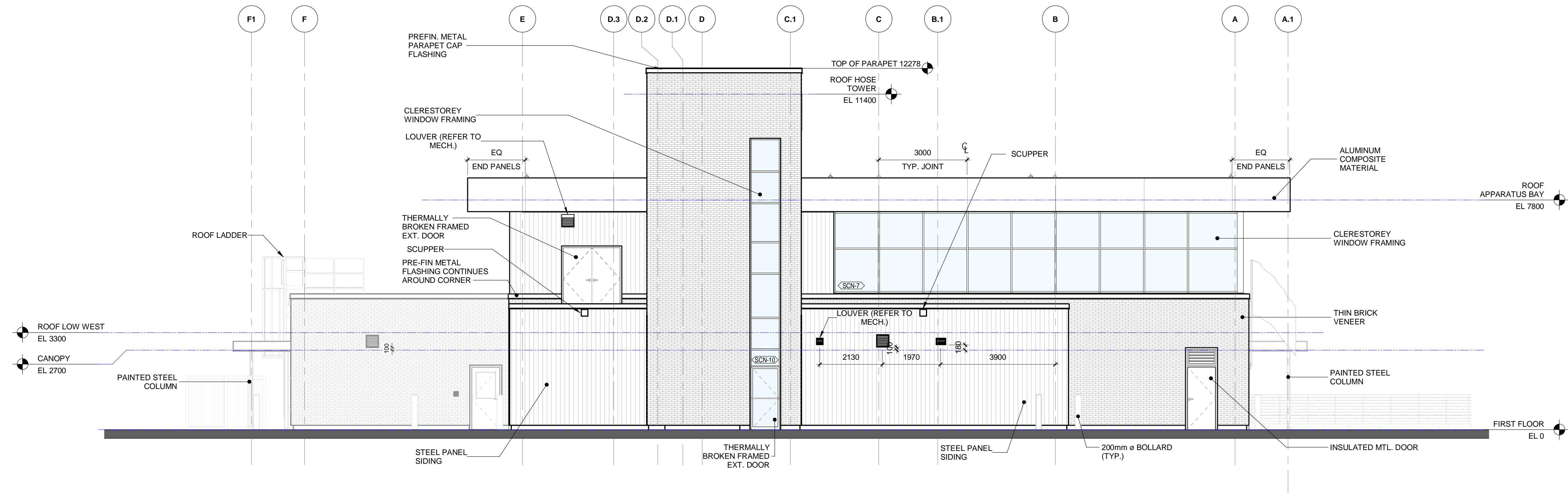
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PROJECT No. 21-100
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BUILDING ELEVATIONS

A-201

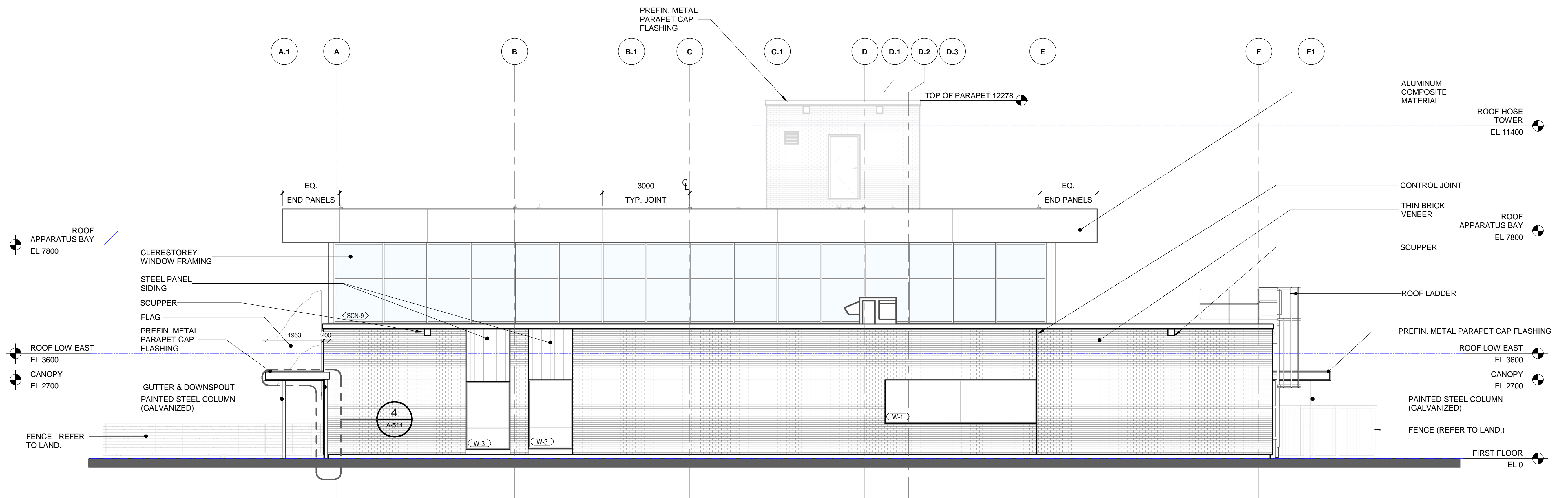


1 | WEST ELEVATION

A-202 | REF: A-101 | Scale: 1 : 75

ISSUE / REVISIONS

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2 | EAST ELEVATION

A-202 | REF: A-101 | Scale: 1 : 75



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CONSTRUCTION DOCUMENTATION

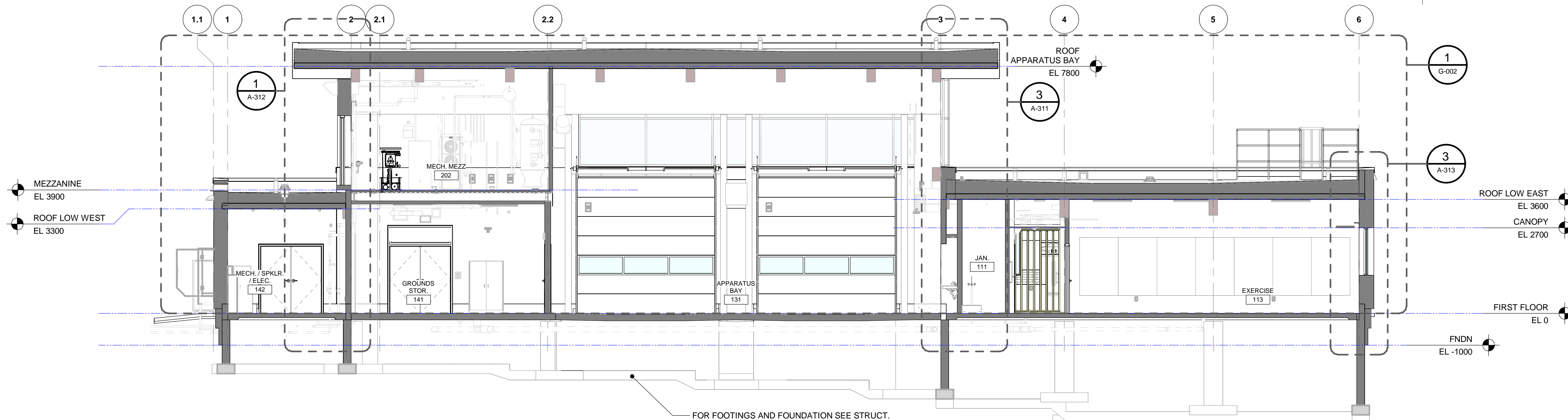
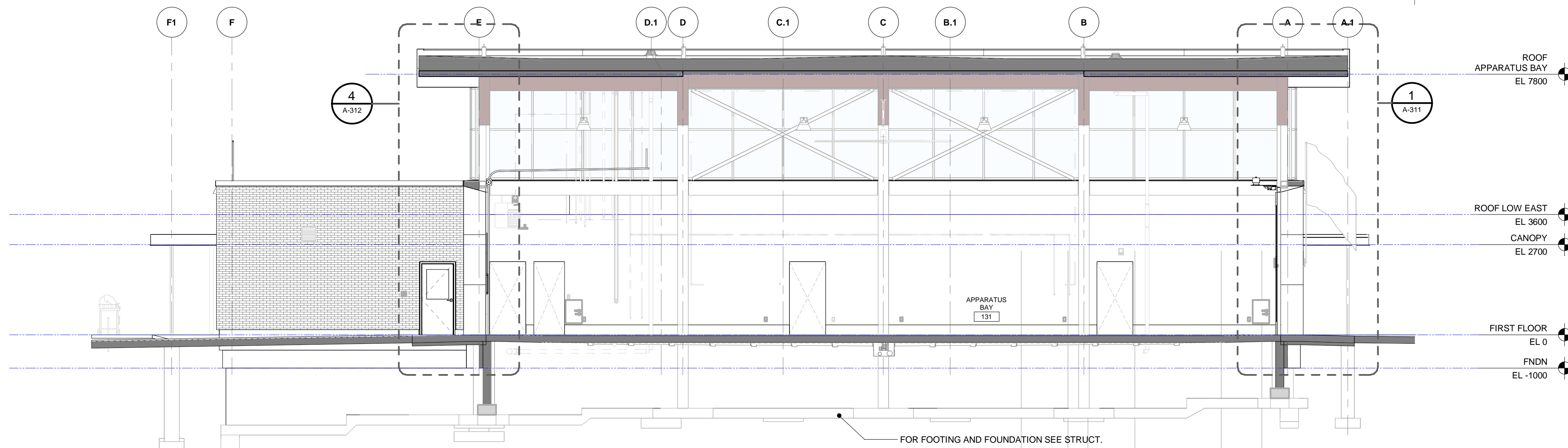
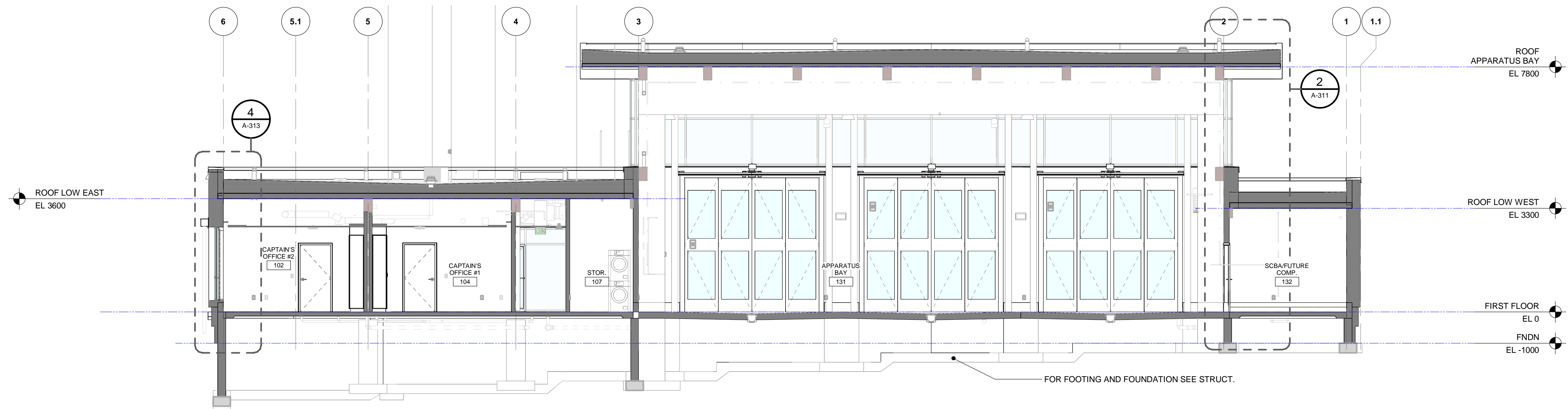
PROJECT No. 21-100
START DATE OCT.2021

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K9H 6M6

BUILDING ELEVATIONS

A-202



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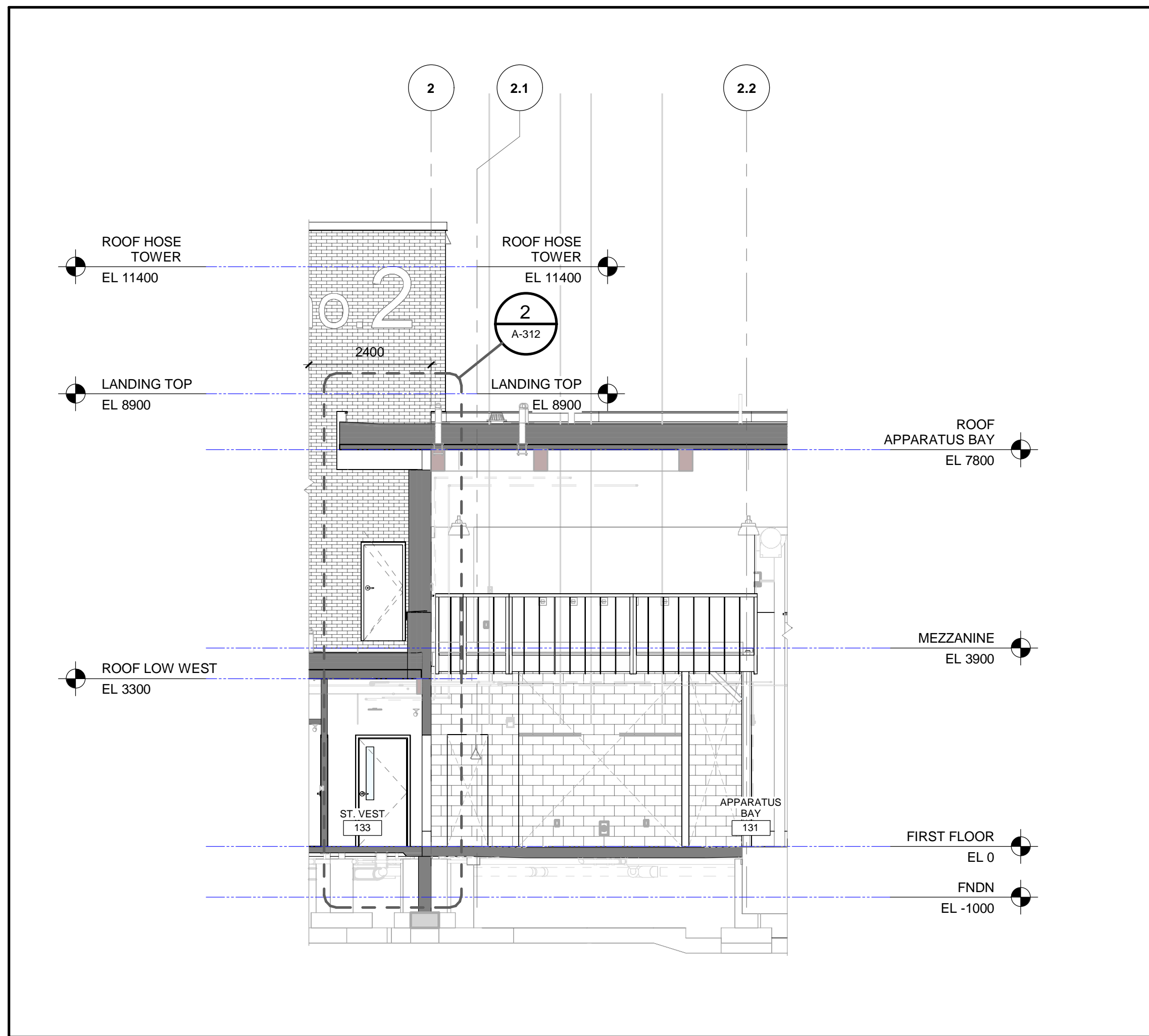
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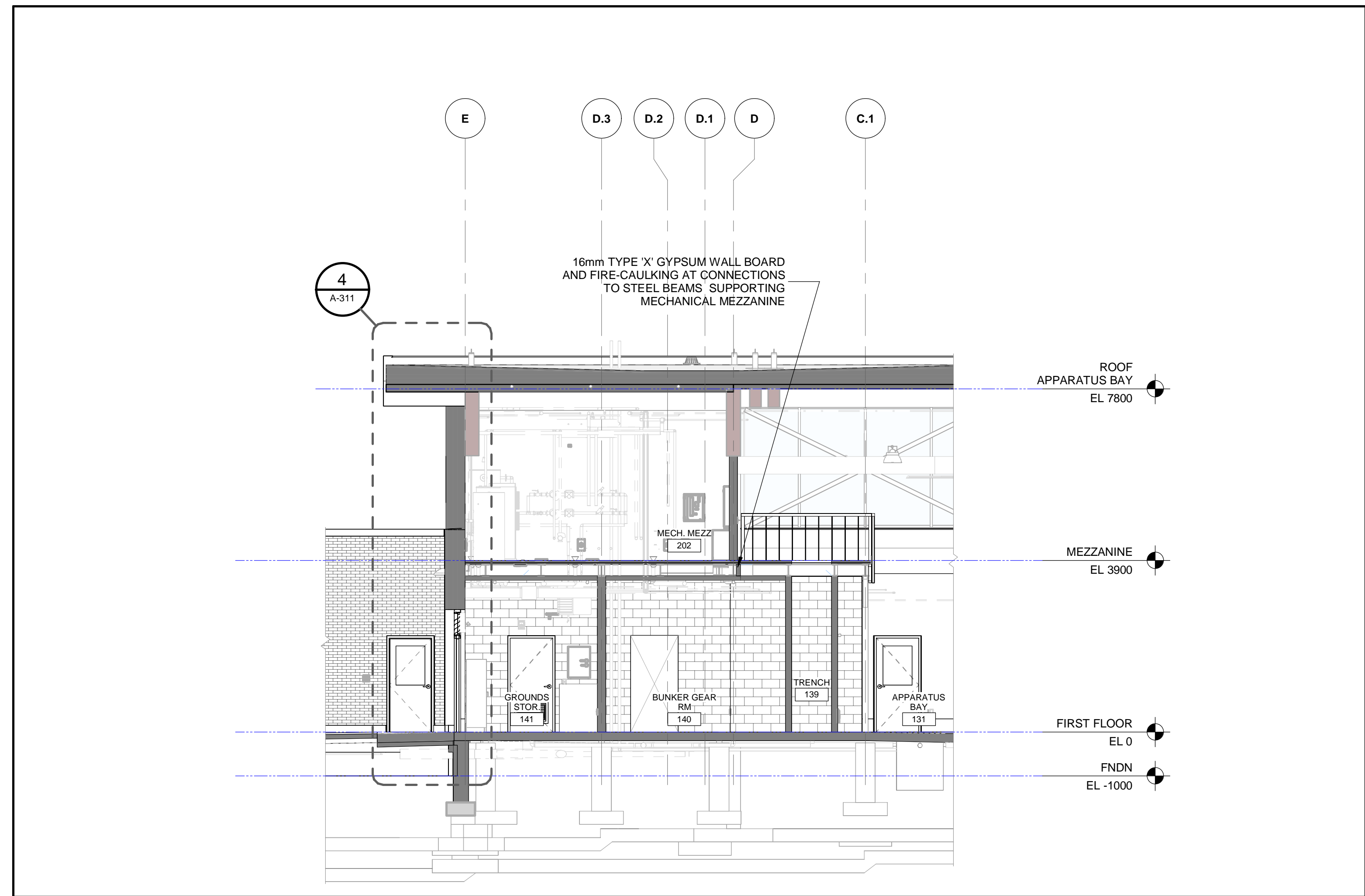
BUILDING SECTIONS

A-301



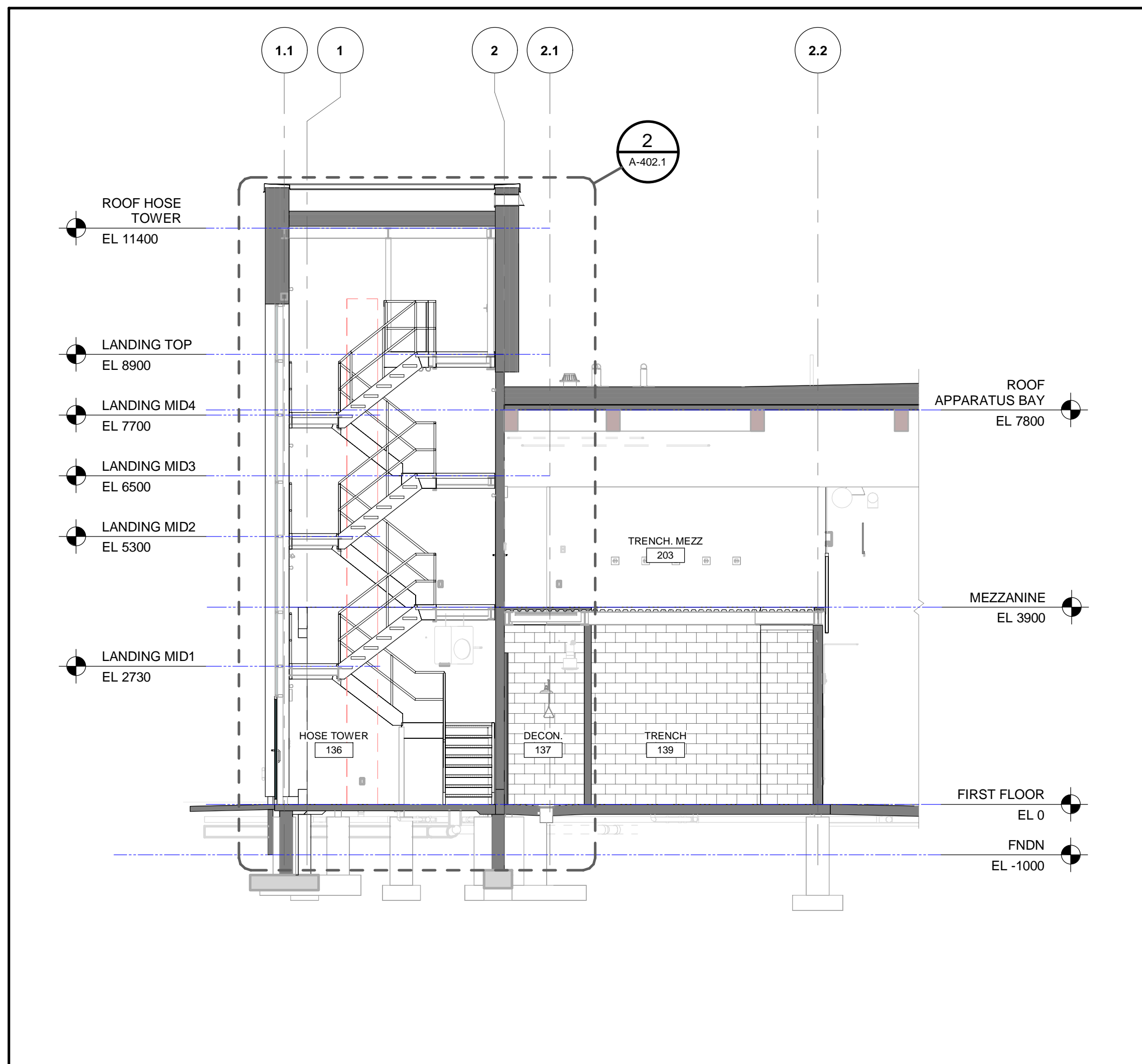
4 BUILDING SECTION G-G

A-302 REF: A-101 Scale: 1 : 75



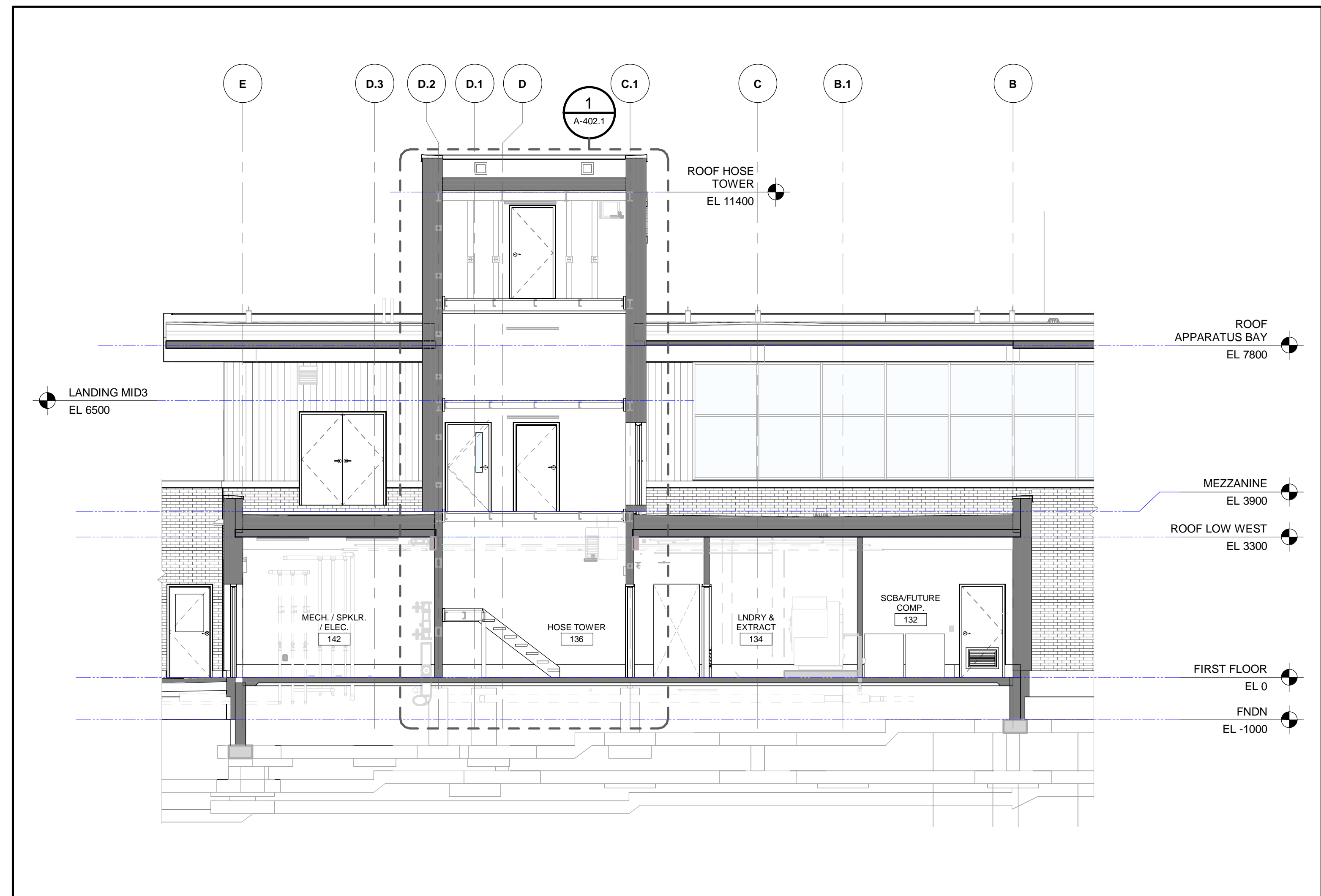
3 BUILDING SECTION F-F

A-302 REF: Scale: 1 : 75



2 BUILDING SECTION E-E

A-302 REF: A-101 Scale: 1 : 75



1 BUILDING SECTION D-D

A-302 REF: A-101 Scale: 1 : 75

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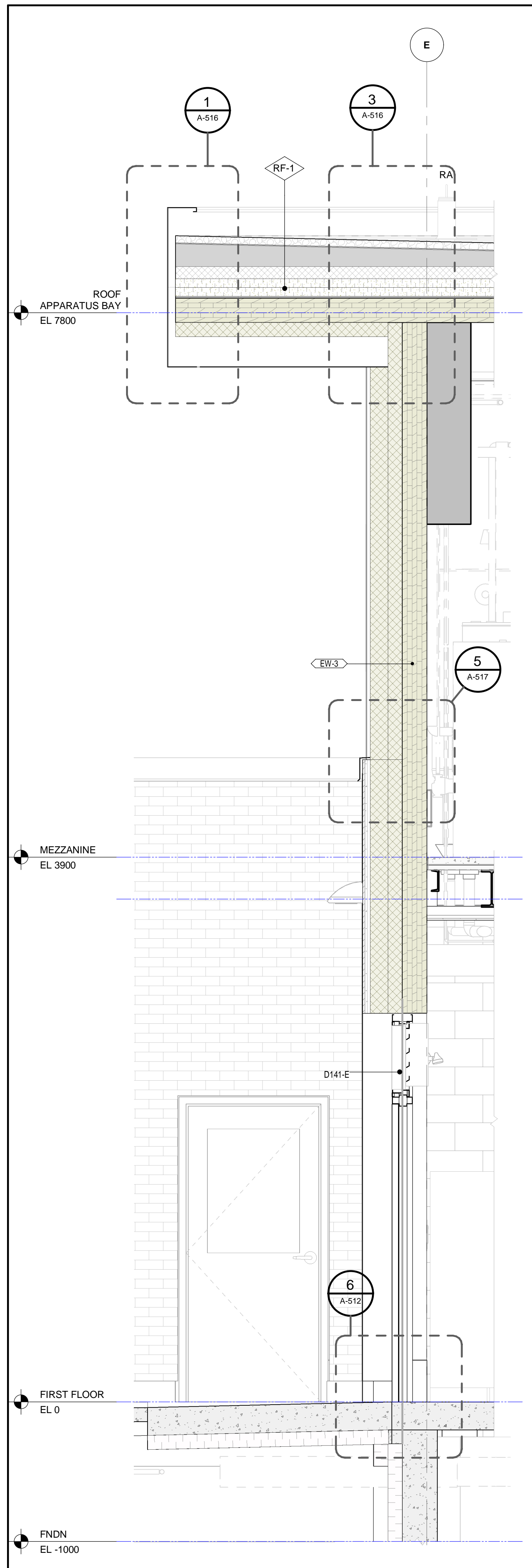
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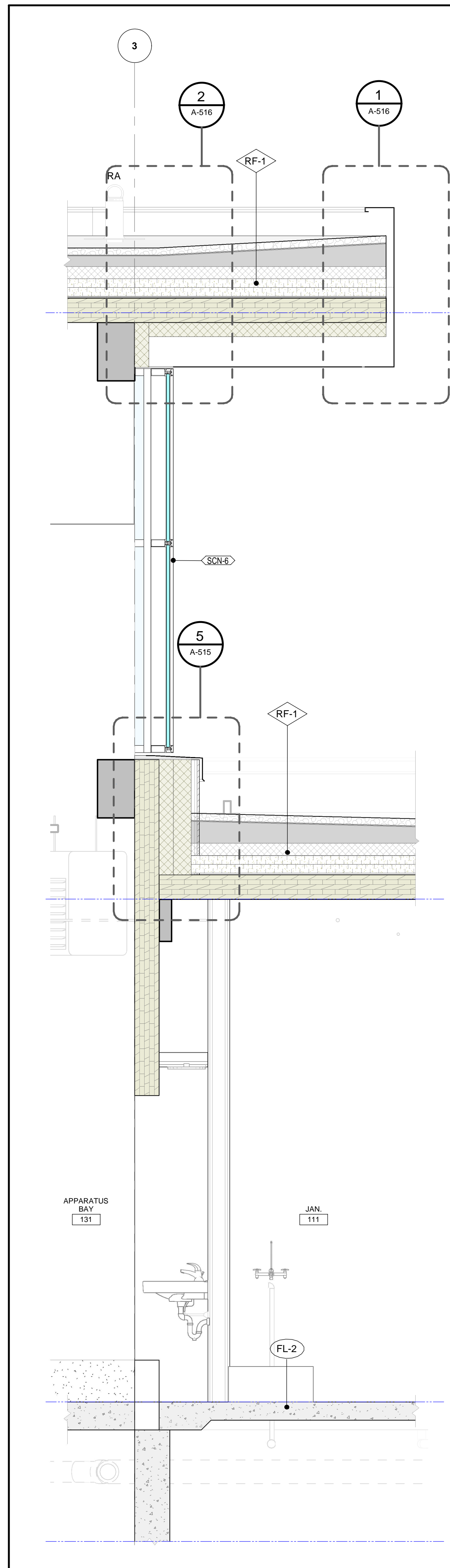
BUILDING SECTIONS

A-302



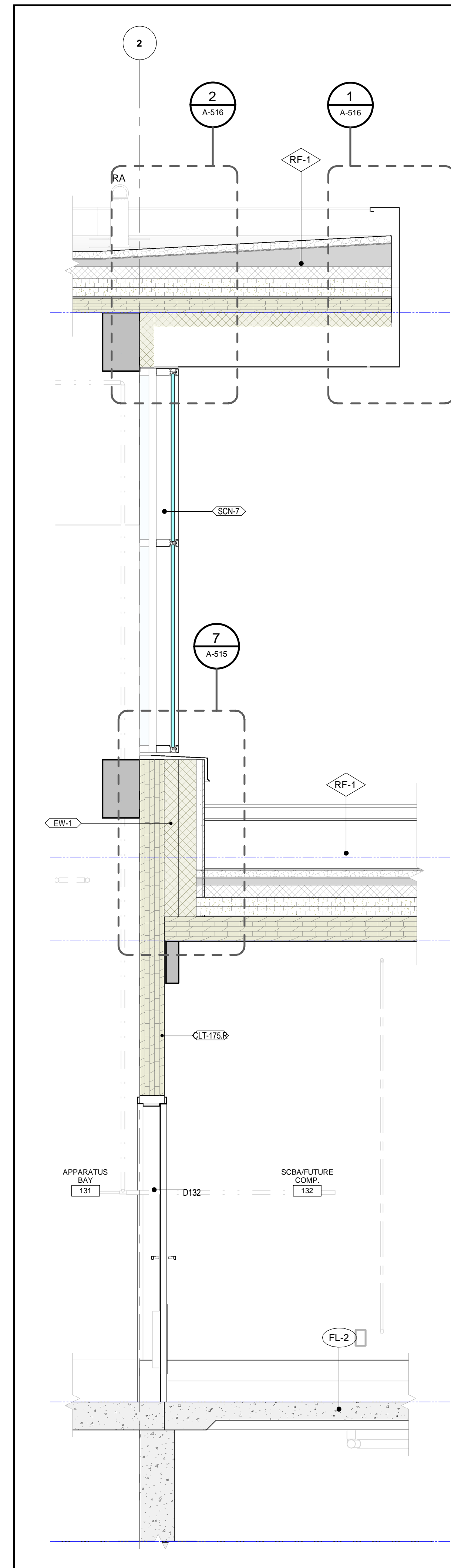
4 WALL SECTION @ GROUT STORAGE

A-311 REF: A-302 Scale: 1:20



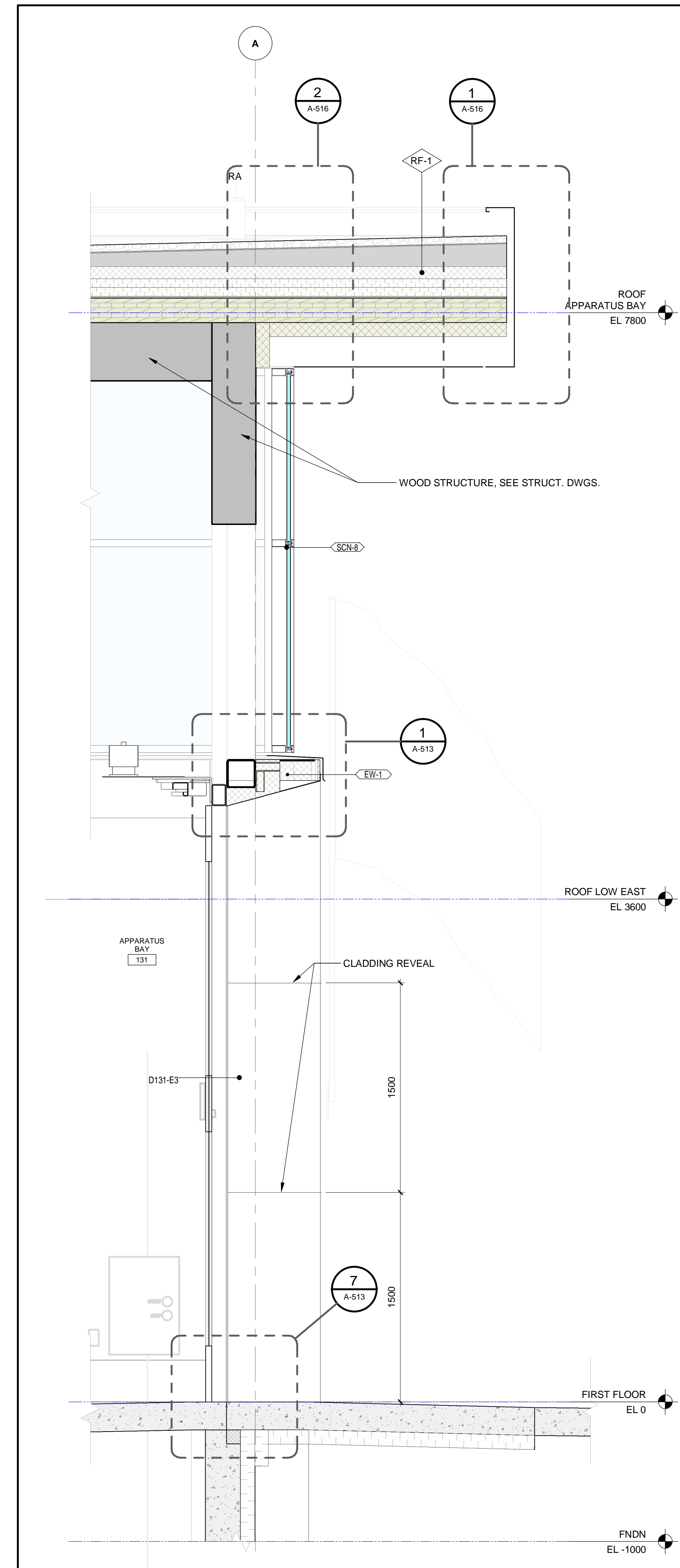
3 WALL SECTION @ EAST CLEARSTORY

A-311 REF: A-301 Scale: 1:20



2 WALL SECTION @ WEST CLEARSTORY

A-311 REF: A-301 Scale: 1:20



1 WALL SECTION @ BIFOLD DOOR

A-311 REF: A-101 Scale: 1:20

ISSUE / REVISIONS	
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Mar.21.22	Apr.25.22	Aug.18.22
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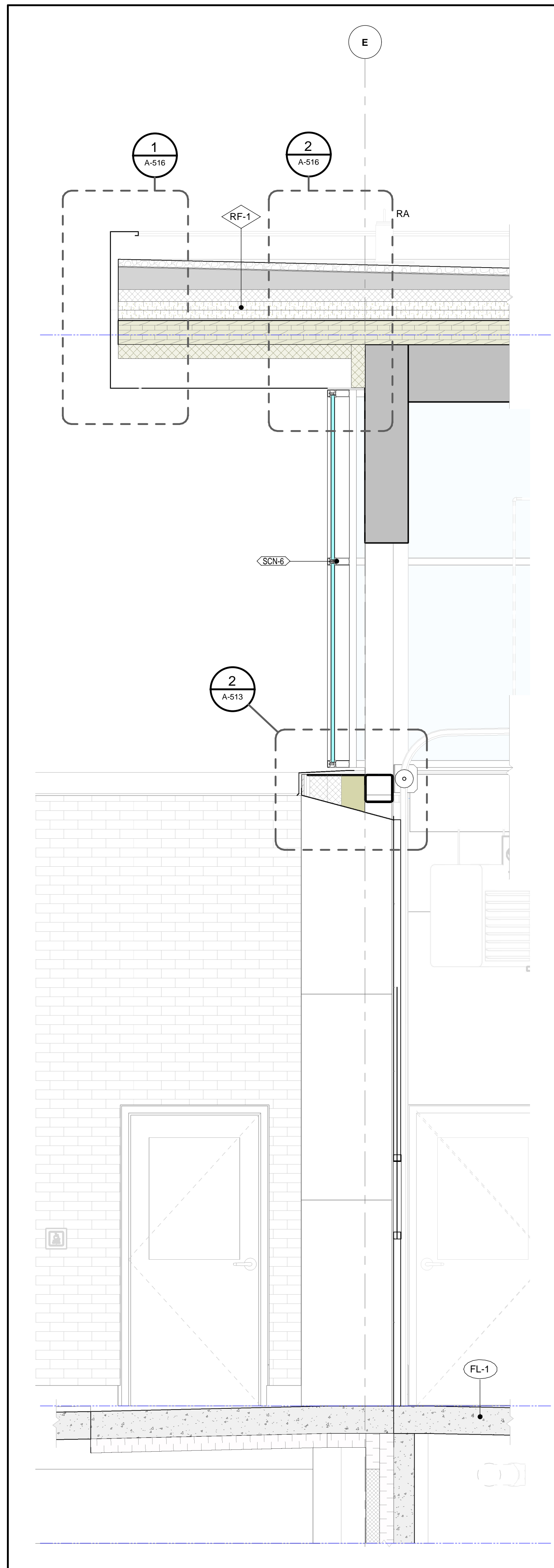
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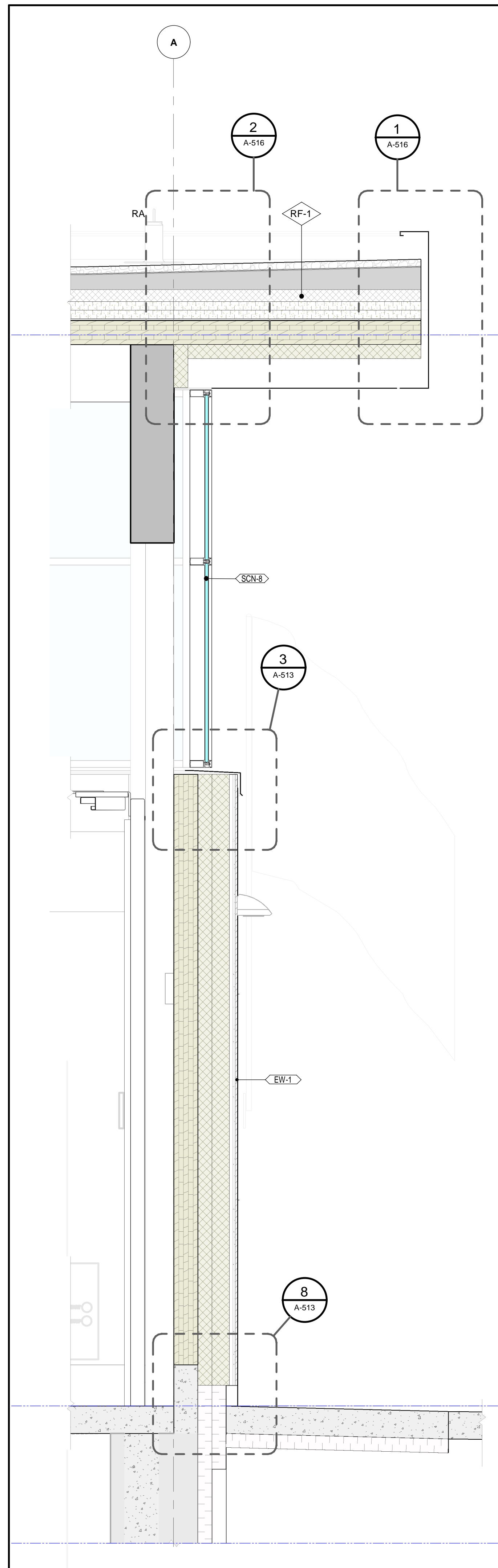
WALL SECTIONS

A-311



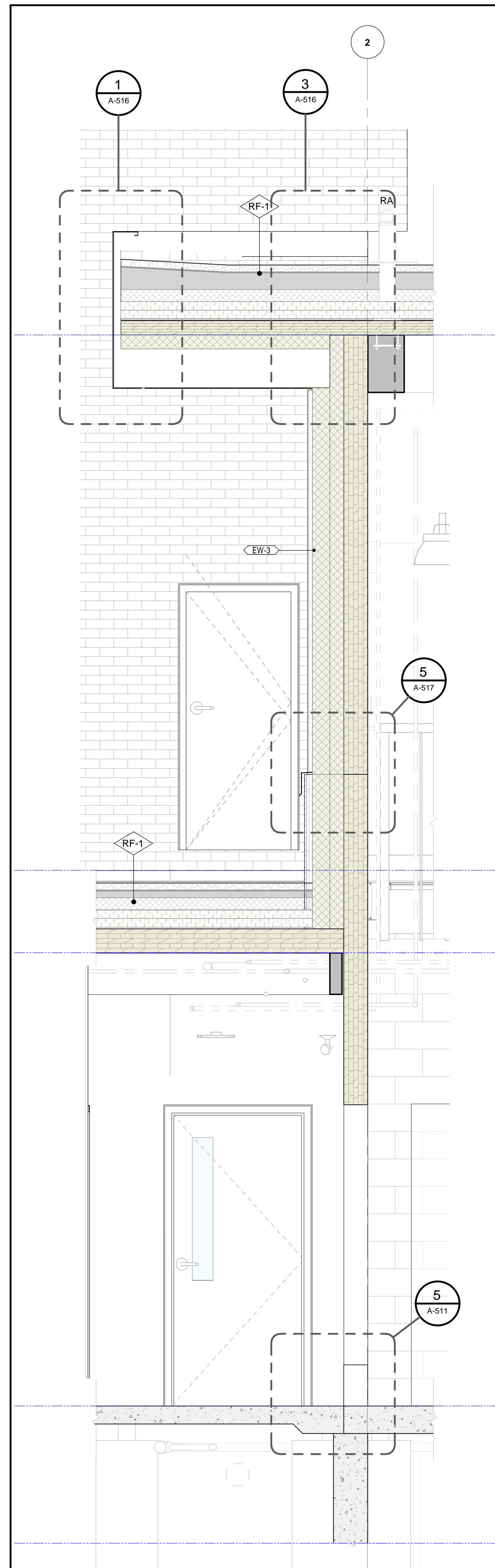
4 | WALL SECTION @ OVERHEAD DOOR

A-312 REF: A-301 Scale: 1 : 20



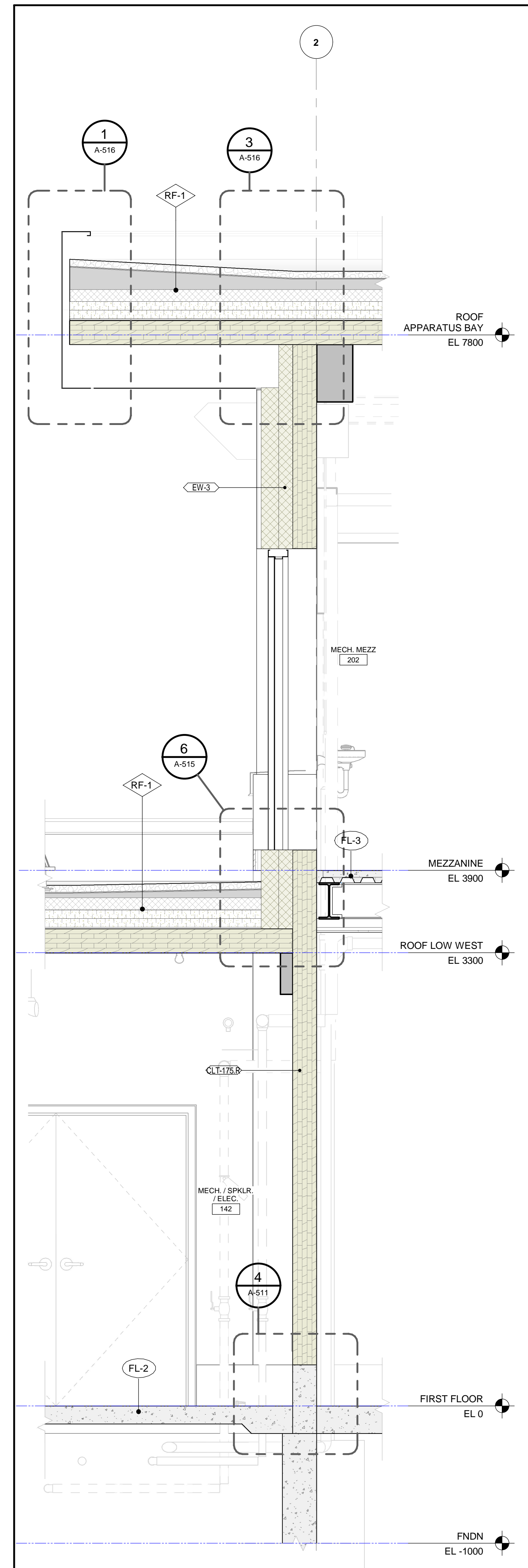
3 | WALL SECTION @ CLEAR STOREY WINDOW

A-312 REF: A-100 Scale: 1 : 20



2 | WALL SECTION @ HOSE TOWER VEST.

A-312 REF: A-302 Scale: 1 : 20



1 | WALL SECTION @ GRID 2 (MECH.)

A-312 REF: A-301 Scale: 1 : 20

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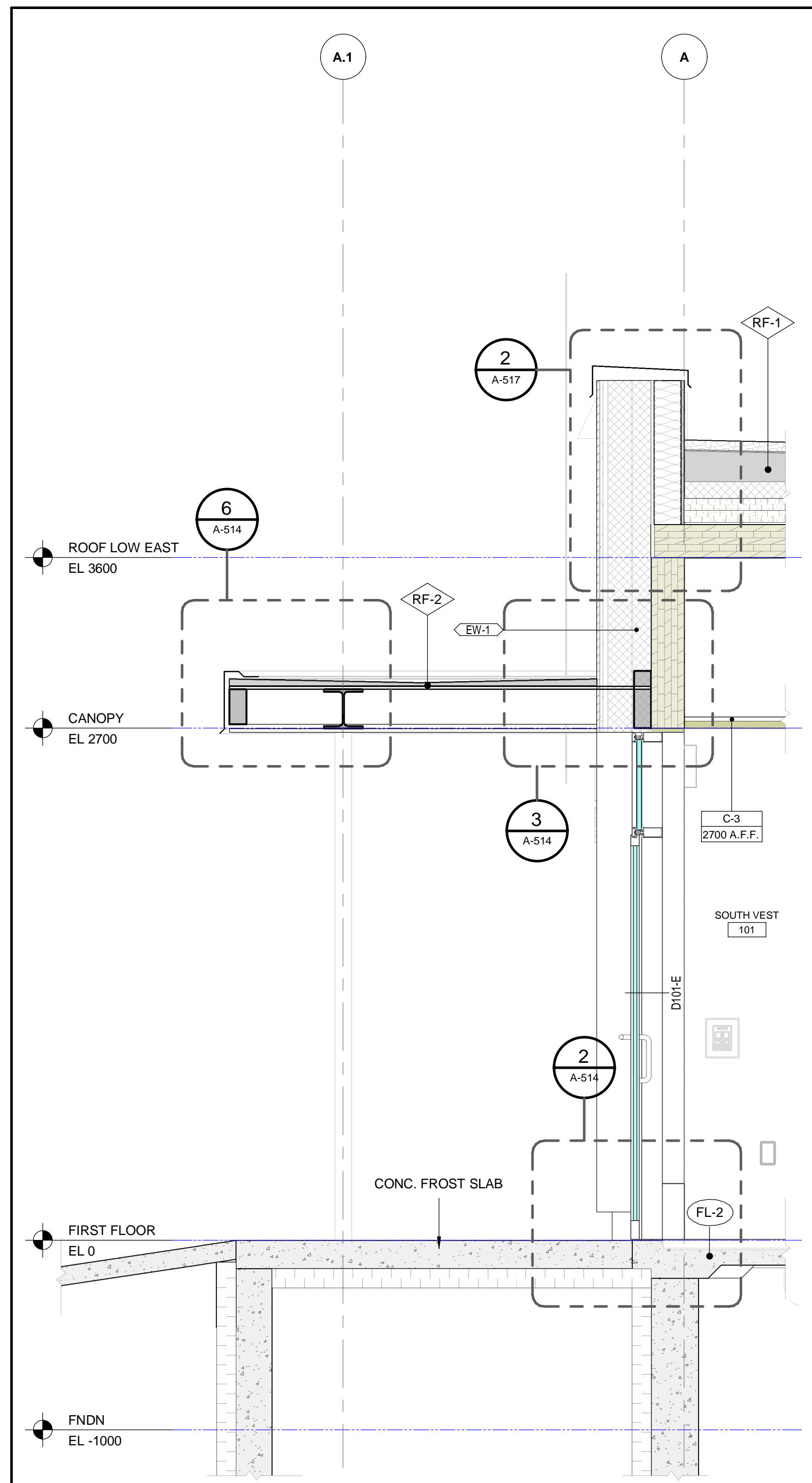
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

WALL SECTIONS

A-312

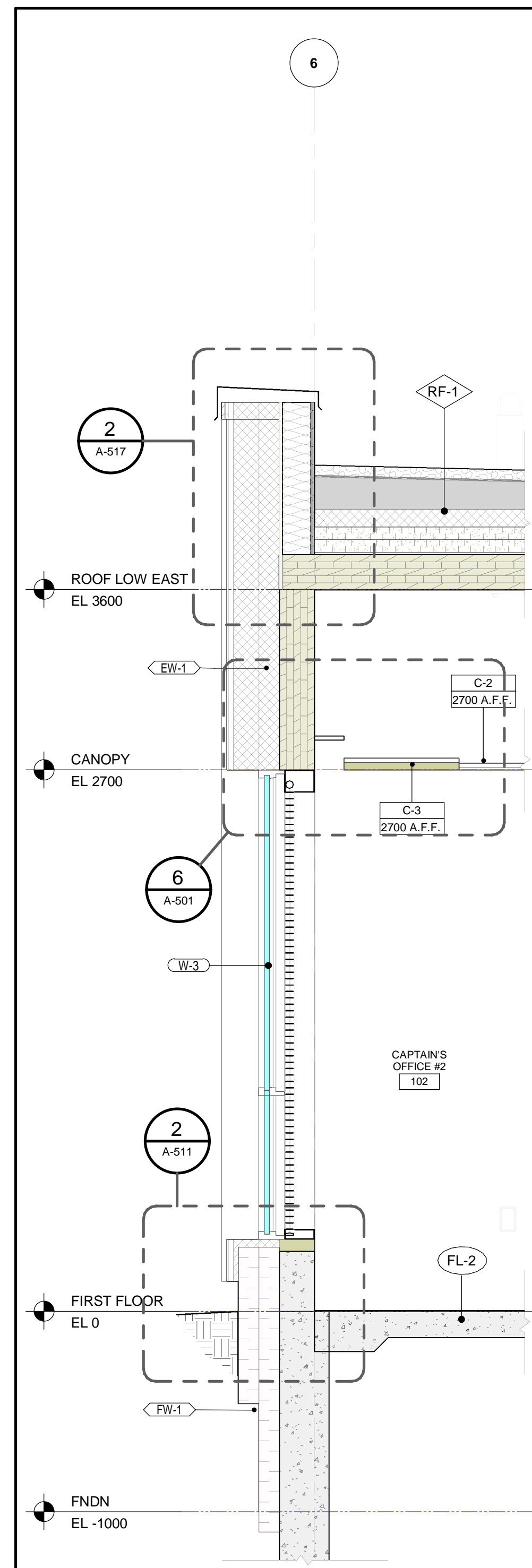
ISSUE / REVISIONS

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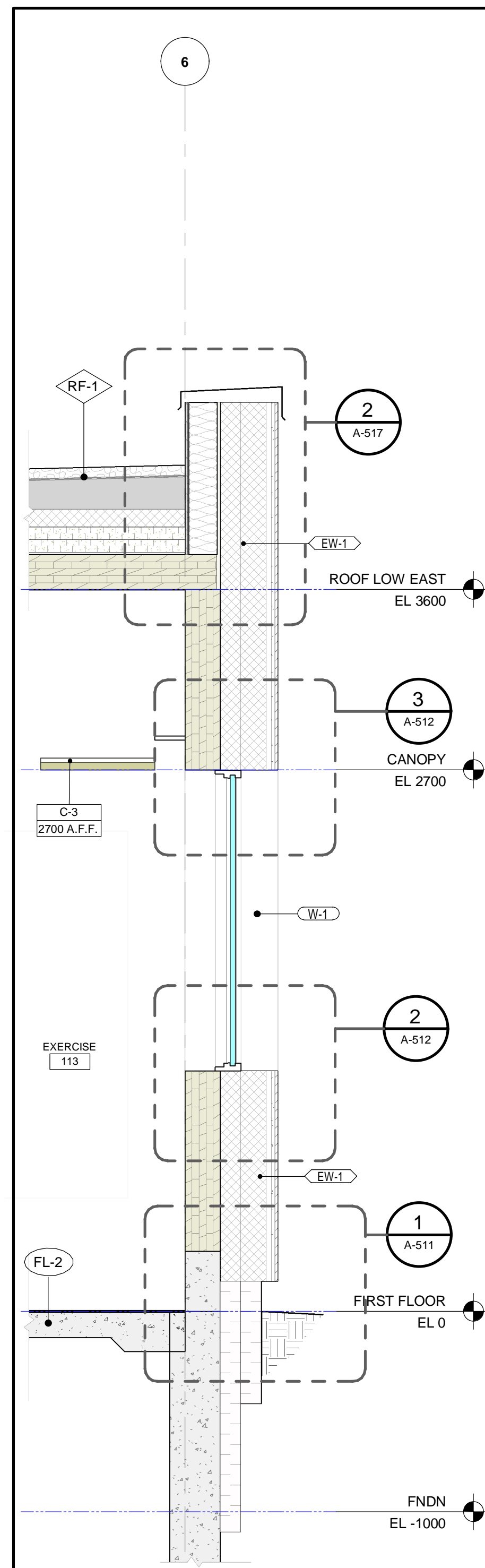
5 | WALL SECTION @ CANOPY

A-313 REF: A-100 Scale: 1 : 20



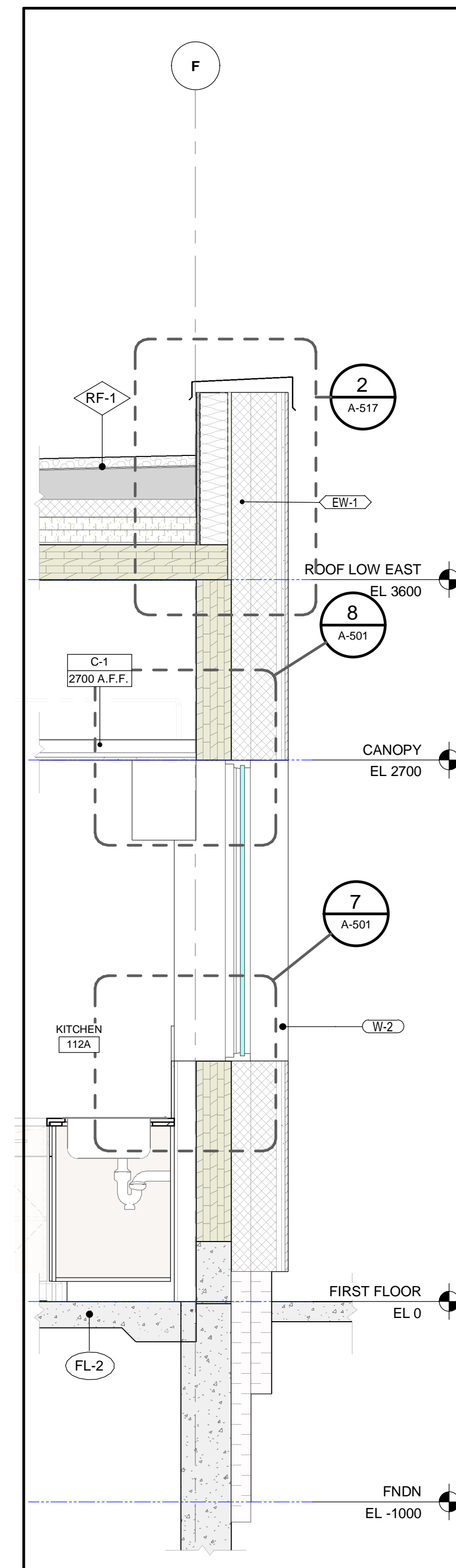
4 | WALL SECTION @ CAPT. OFFICE

A-313 REF: A-301 Scale: 1 : 20



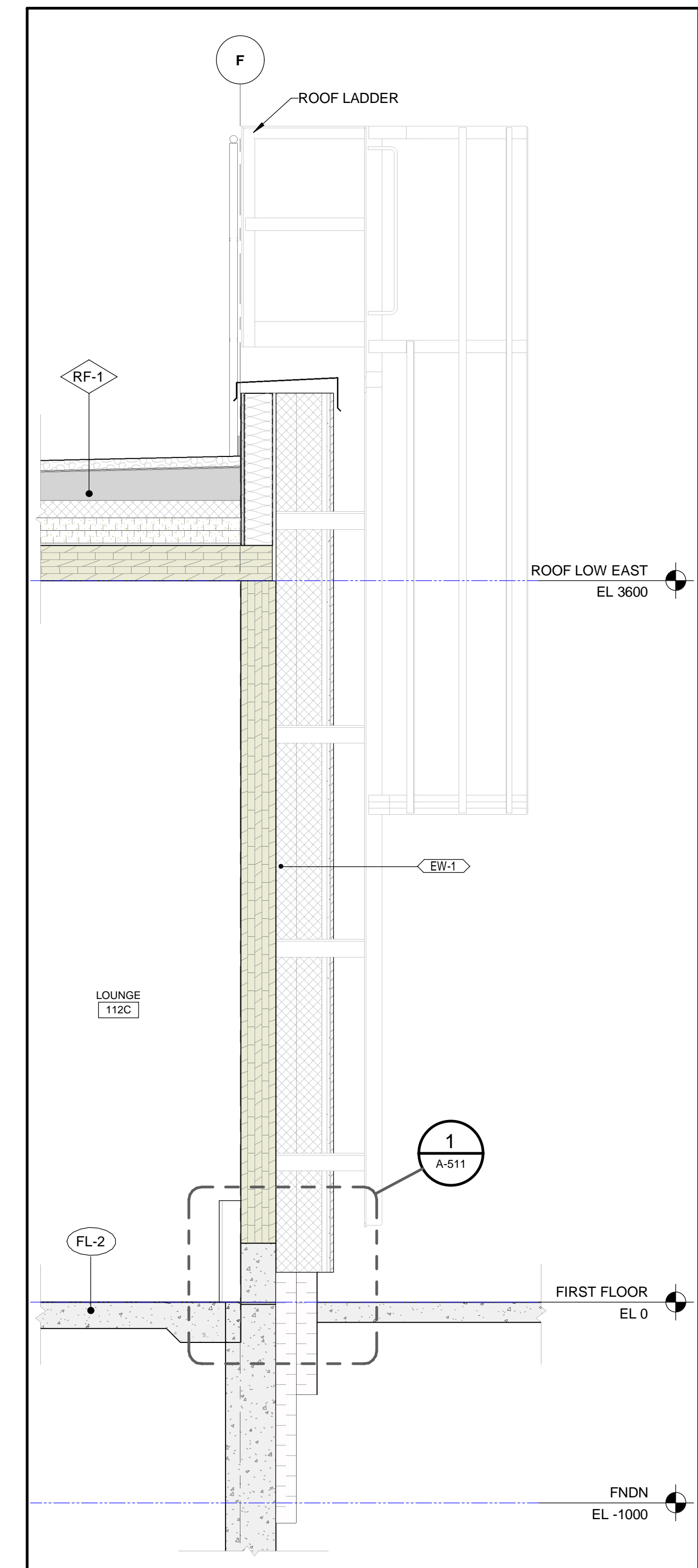
3 | WALL SECTION @ EXERCISE

A-313 REF: A-301 Scale: 1 : 20



2 | WALL SECTION @ KITCHEN

A-313 REF: A-100 Scale: 1 : 20



1 | WALL SECTION @ ROOF LADDER

A-313 REF: A-100 Scale: 1 : 20



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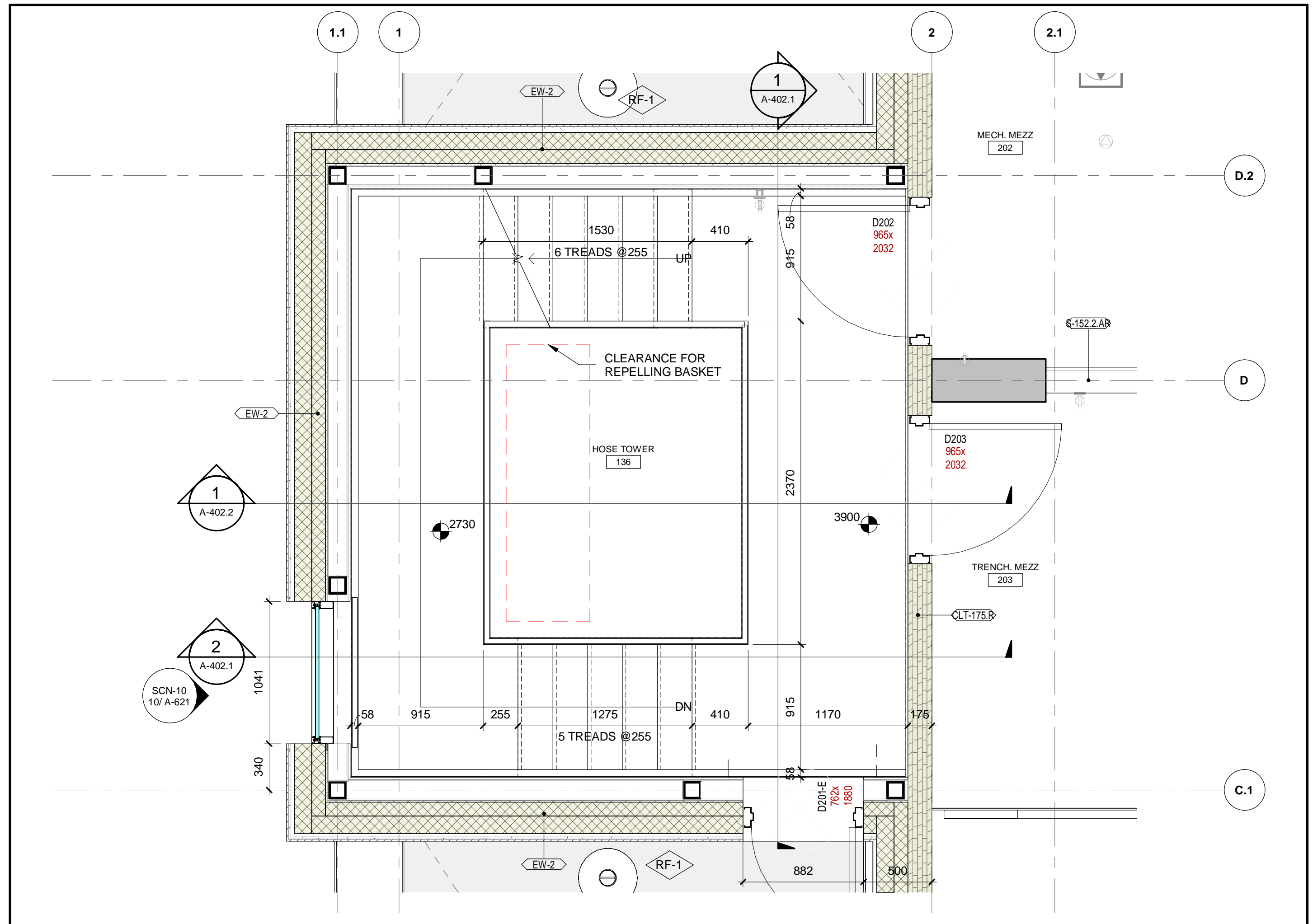
WALL SECTIONS

A-313

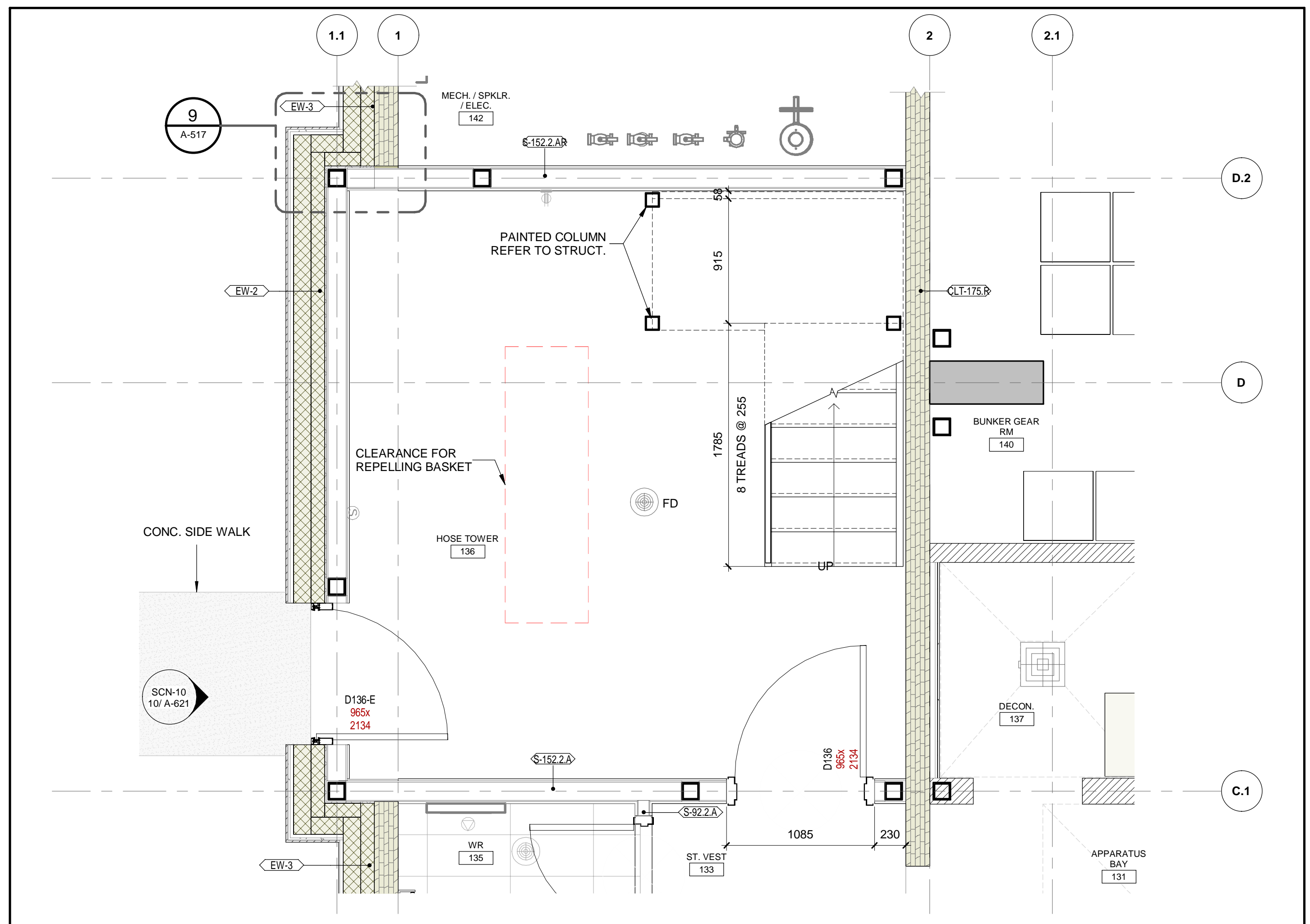
CLT PANEL COORDINATION NOTES:

- 1. GC TO ENSURE CLT & MECH. TRADES COORDINATE PENETRATIONS AND FINAL DUCT SIZING/RUNS THROUGH CLT
- 2. CLT PANELS FACING APPARATUS BAY AND CLT PANELS AT BUILDING PERIMETER FACING INTERIOR SHALL BE ARCHITECTURE FINISH.

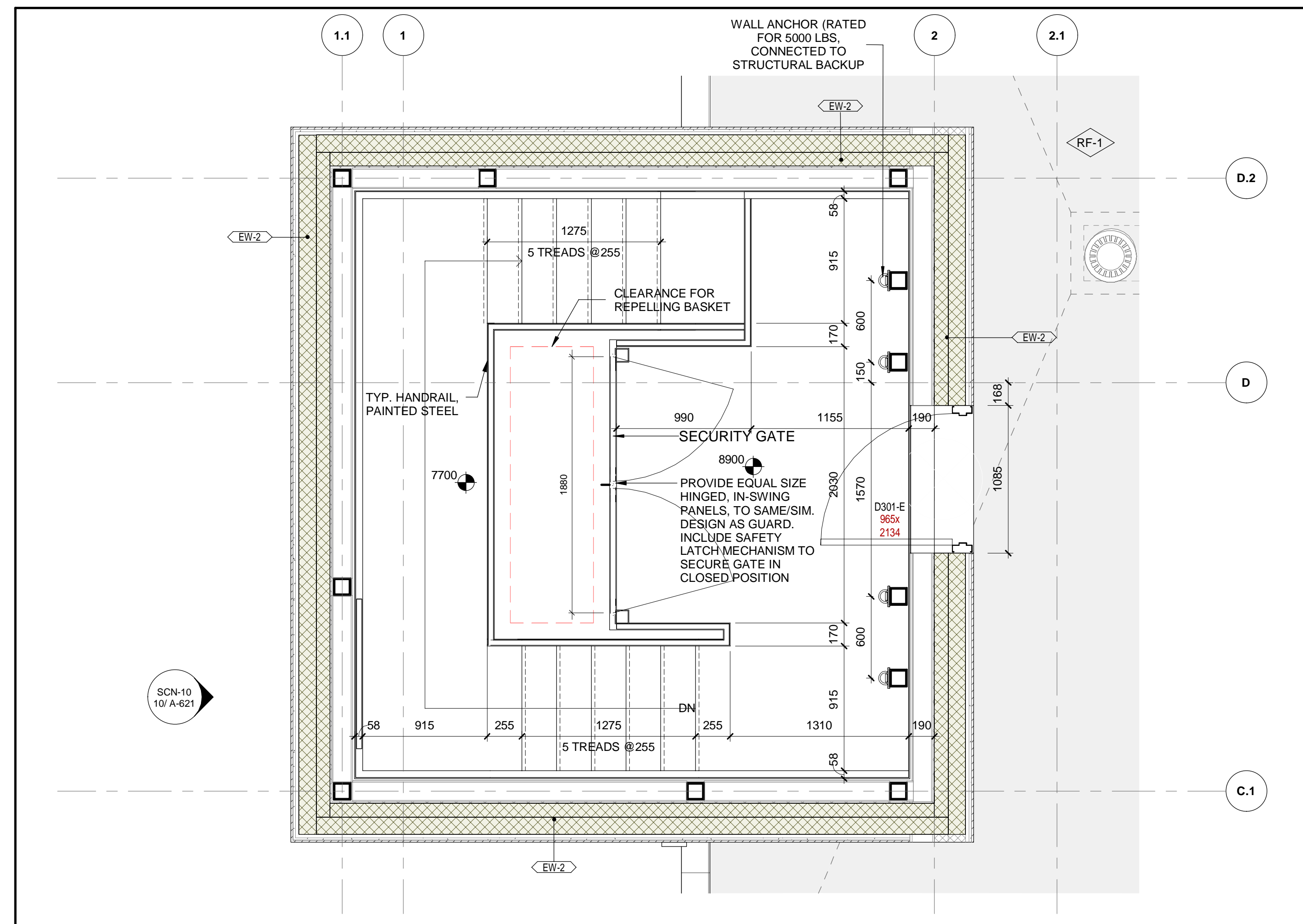
ISSUE / REVISIONS	
1	Issued for Building Permit Response
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3	Issued for Tender



2 | ENLARGED PLAN - HOSE TOWER (MEZZ FLOOR)
A-401 REF: A-102 Scale: 1 : 25



1 | ENLARGED PLAN - HOSE TOWER (FIRST FLOOR)
A-401 REF: A-101 Scale: 1 : 25



3 | ENLARGED PLAN - HOSE TOWER (APPARATUS ROOF)
A-401 REF: Scale: 1 : 25



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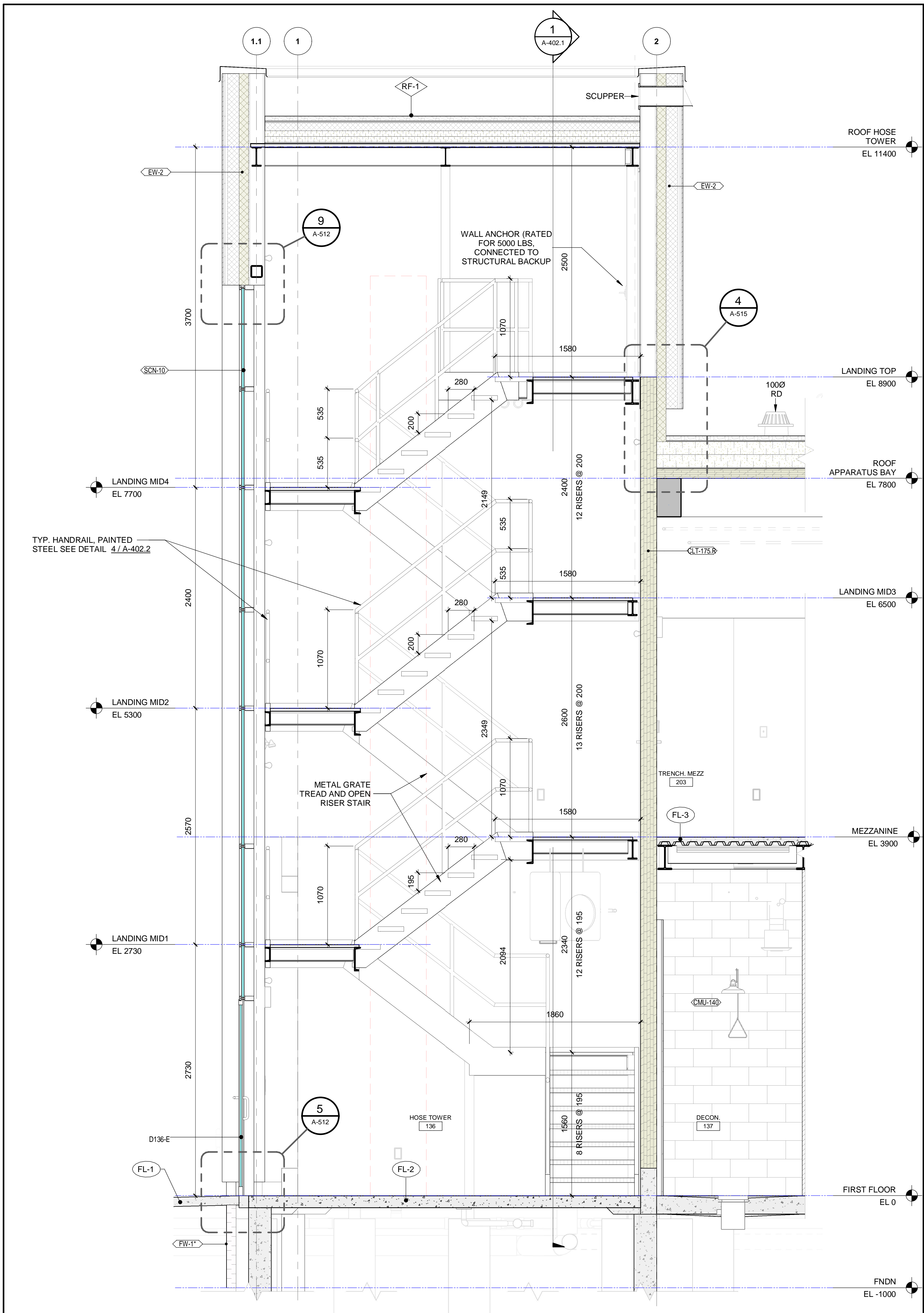
CONSTRUCTION DOCUMENTATION
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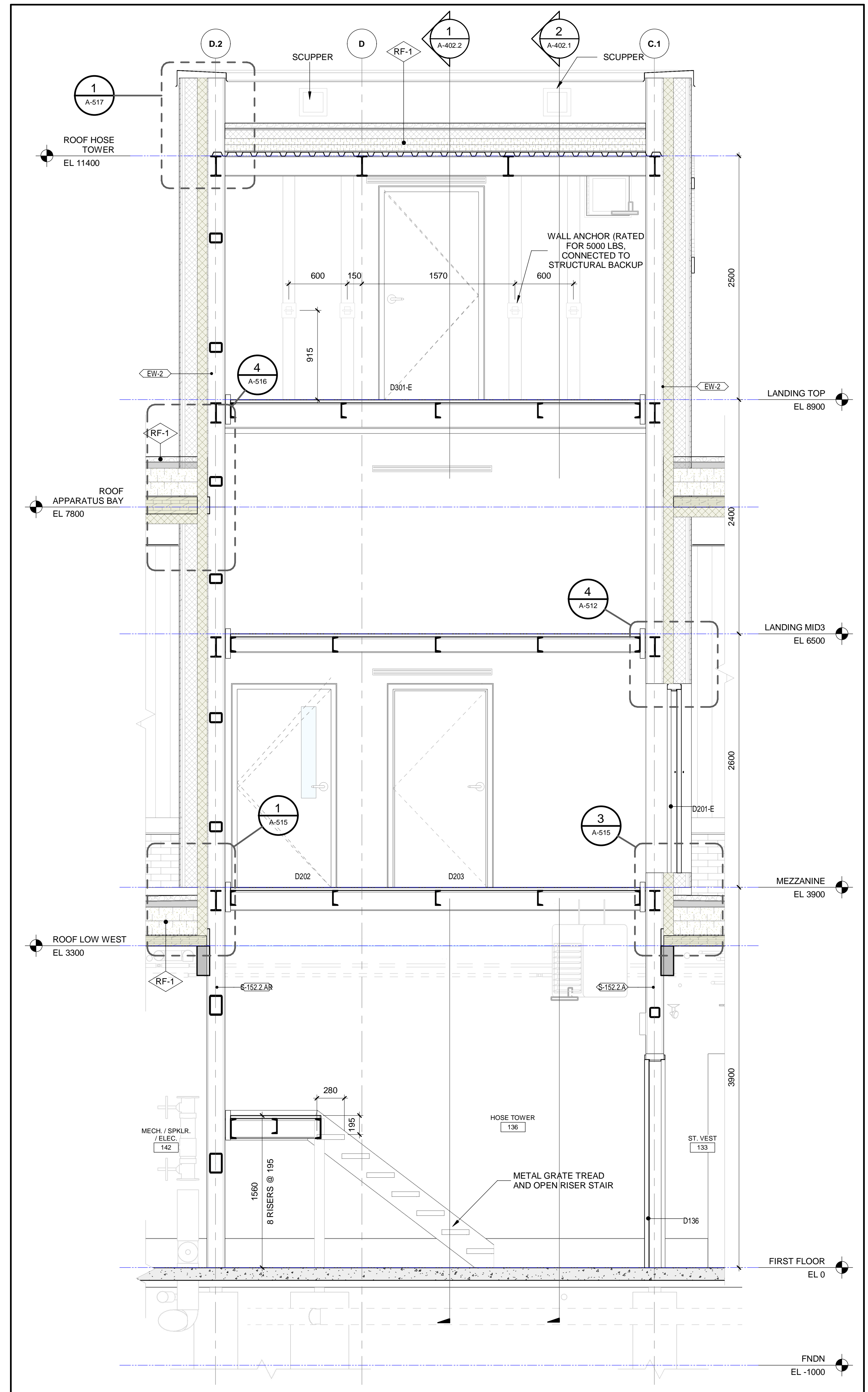
**ENLARGED PLANS -
HOSE TOWER**

A-401



2 | ENLARGED SECTION A - HOSE TOWER

A-402.1 REF: A-302 Scale: 1 : 25



1 | WALL SECTION @ HOSE TOWER - 1

A-402.1 REF: A-302 Scale: 1 : 25

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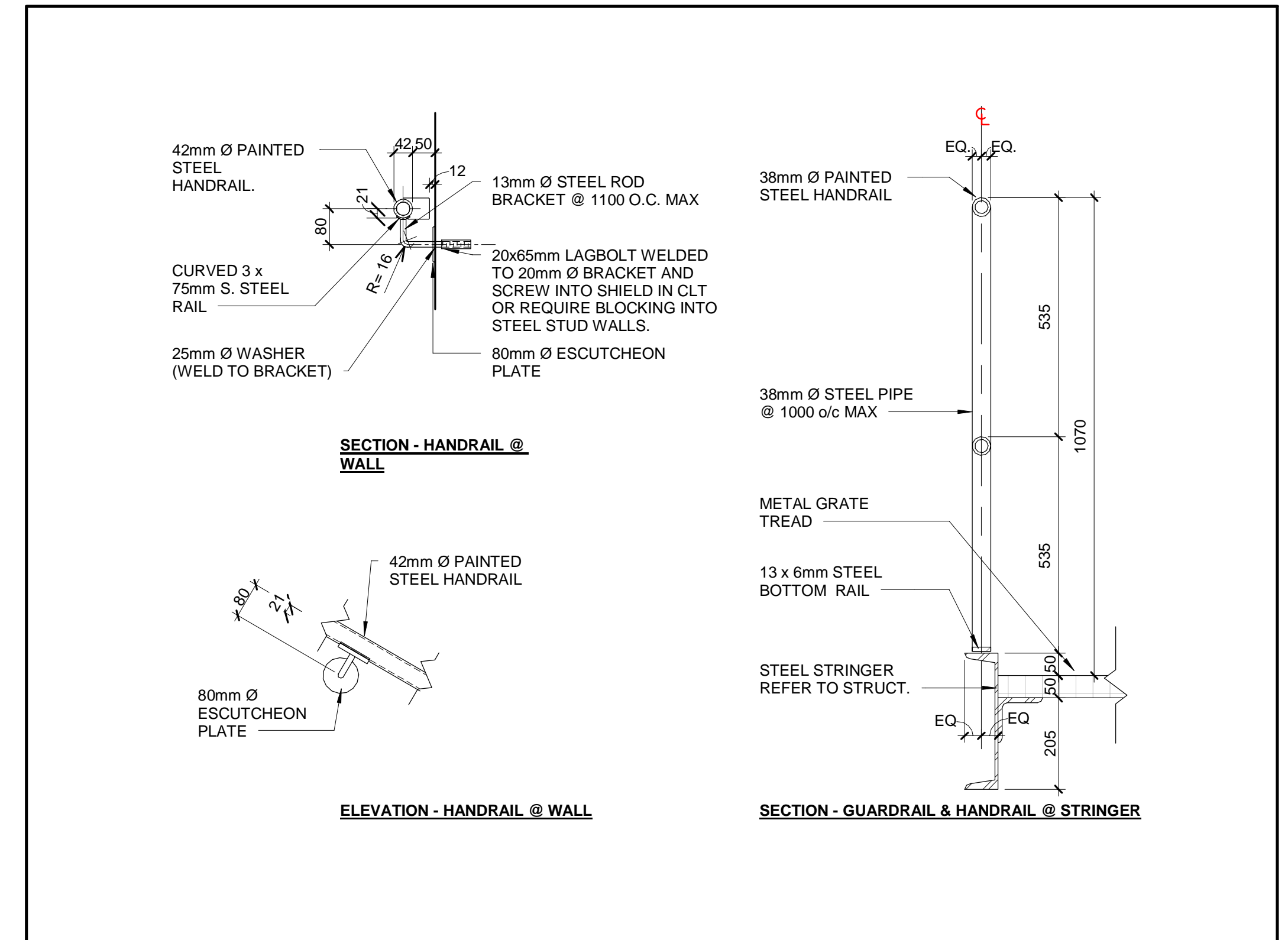
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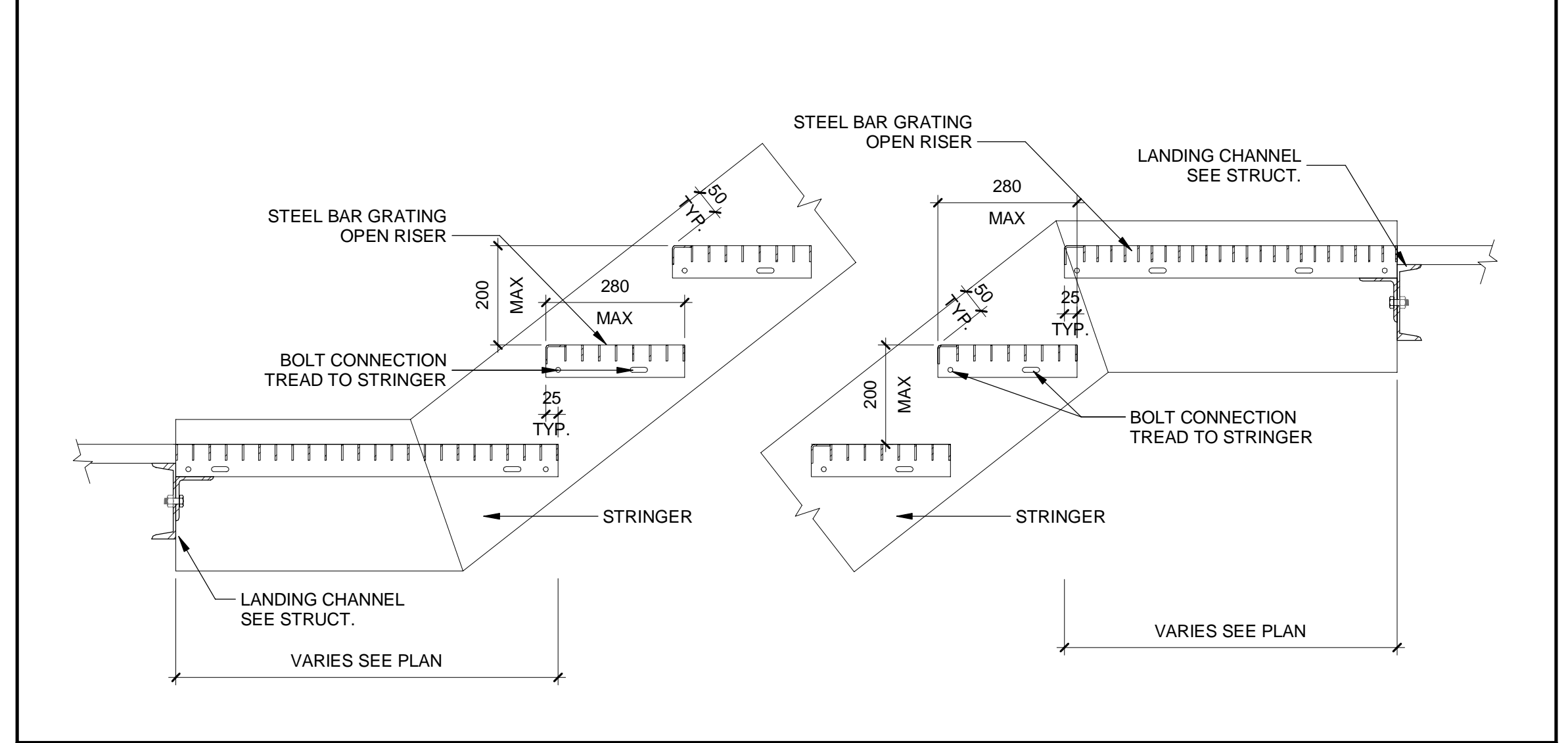
ENLARGED SECTIONS
- HOSE TOWER

A-402.1



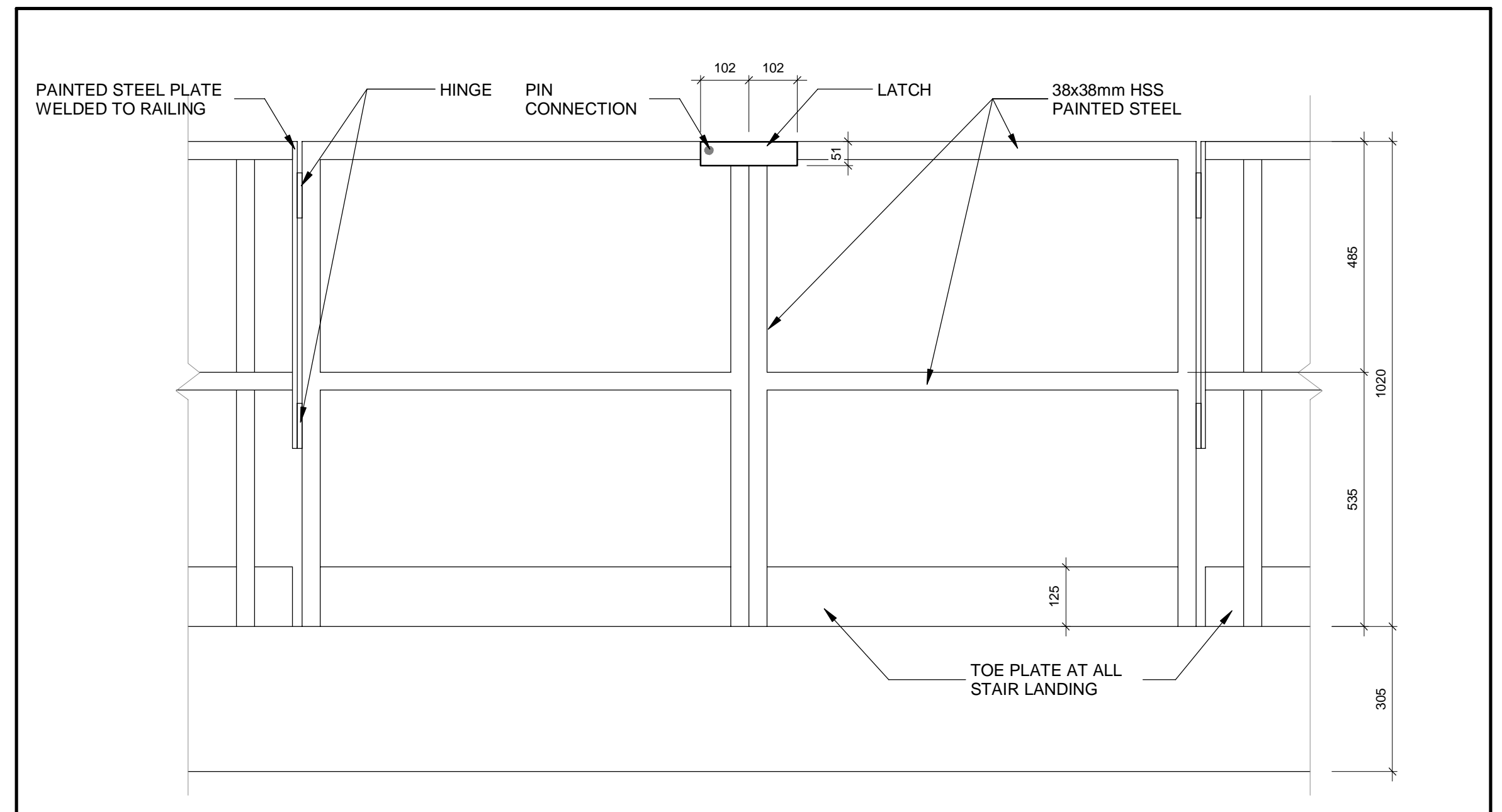
4 | DETAIL - STAIRS - HANDRAIL & GUARDRAIL DETAILS

A-402.2 REF: Scale: 1:10



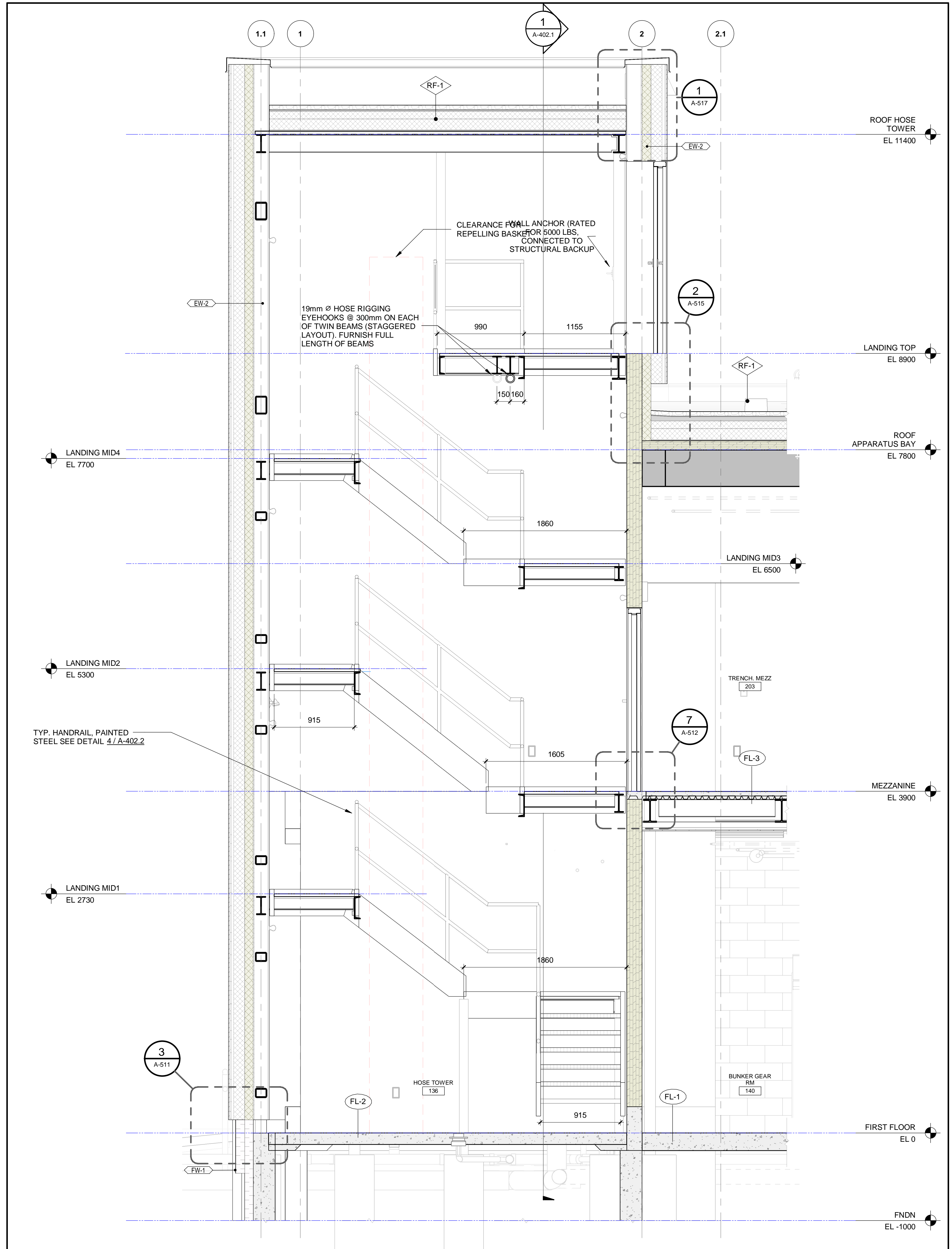
3 | DETAIL - STAIRS - METAL GRATE TREAD

A-402.2 REF: Scale: 1:10



2 | ELEVATION DETAIL - SECURITY GATE

A-402.2 REF: Scale: 1:10



1 | WALL SECTION @ HOSE TOWER - 3

A-402.2 REF: A-401 Scale: 1:25

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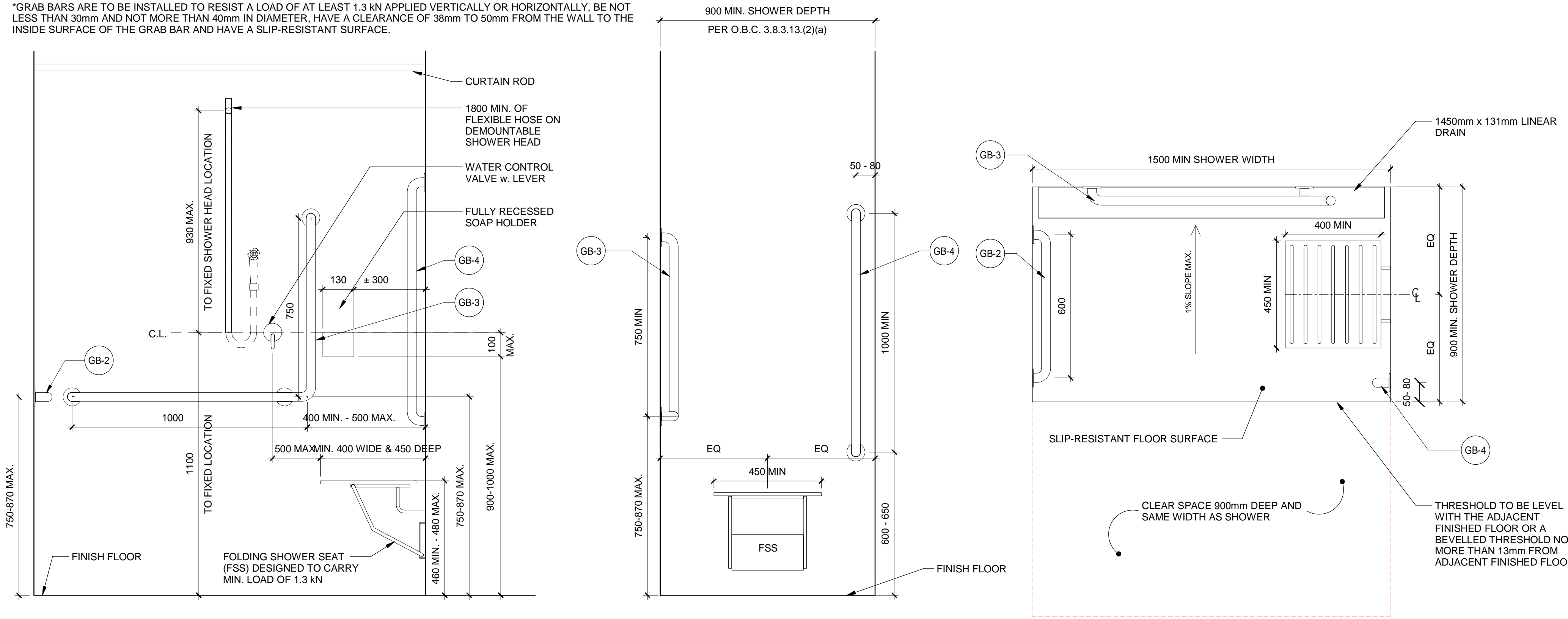
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

**ENLARGED SECTIONS
- HOSE TOWER**

A-402.2

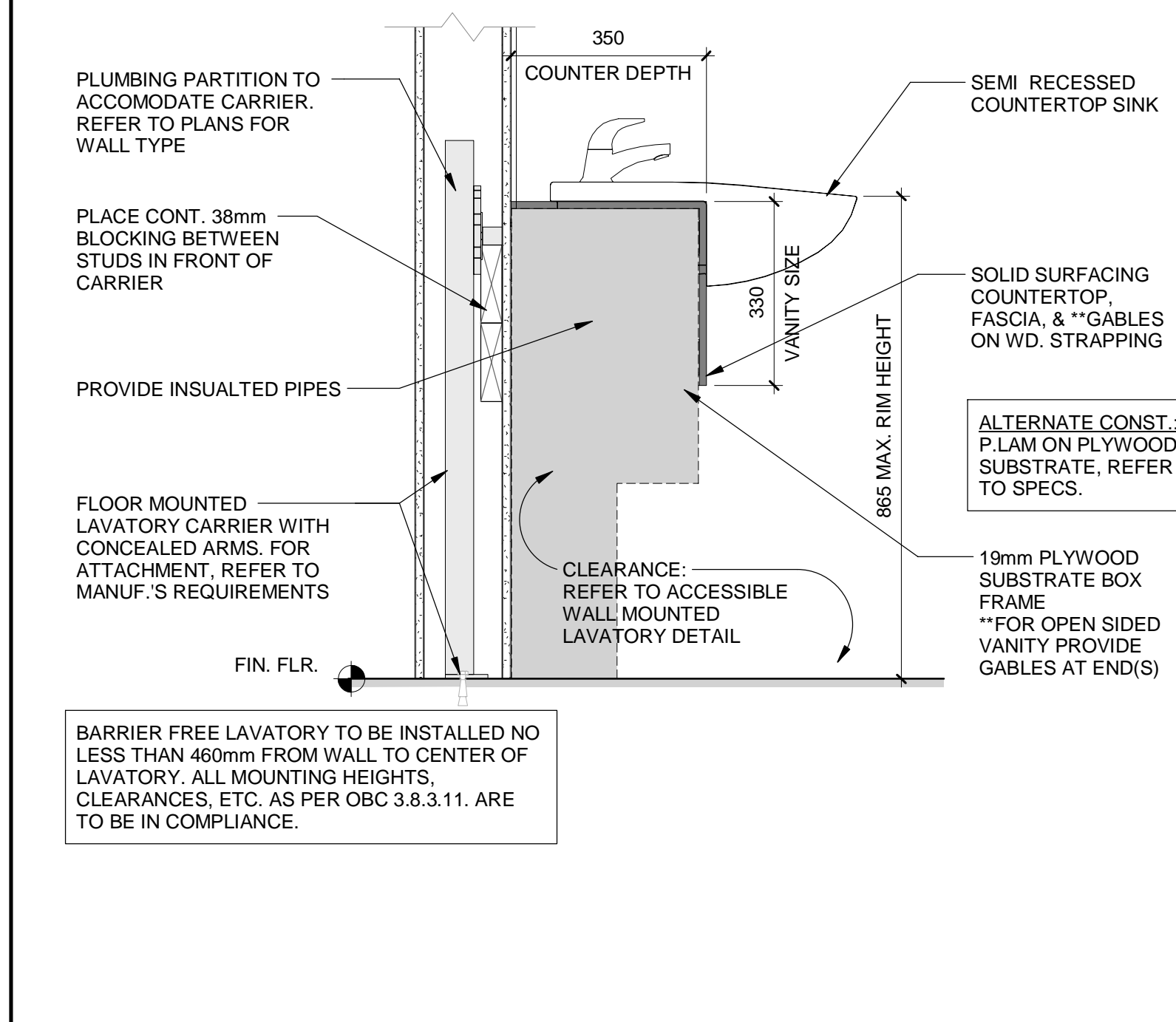
- GB-2 BE A MIN. 600mm LONG AND BE INSTALLED HORIZONTALLY AT THE SAME HEIGHT AS THE L-SHAPED GRAB BAR
- GB-3 L-SHAPED GRAB BAR WITH 1000mm LONG HORIZONTAL AND 750mm LONG VERTICAL COMPONENT MOUNTED BETWEEN 750mm AND 870mm A.F.F. AND 400mm MIN. TO 500mm MAX. FROM SIDE WALL WHICH HAS VERTICAL GRAB BAR.
- GB-4 BE A MIN. 1000mm LONG AND BE INSTALLED VERTICALLY FROM 600mm TO 650mm A.F.F. AND BETWEEN 50mm TO 80mm FROM ADJACENT CLEAR FLOOR AREA.

*GRAB BARS ARE TO BE INSTALLED TO RESIST A LOAD OF AT LEAST 1.3 kN APPLIED VERTICALLY OR HORIZONTALLY. BE NOT LESS THAN 30mm AND NOT MORE THAN 40mm IN DIAMETER, HAVE A CLEARANCE OF 38mm TO 50mm FROM THE WALL TO THE INSIDE SURFACE OF THE GRAB BAR AND HAVE A SLIP-RESISTANT SURFACE.



2 PLAN DETAIL & ELEVATION - BARRIER FREE SHOWER

A-403 REF: Scale: 1 : 12



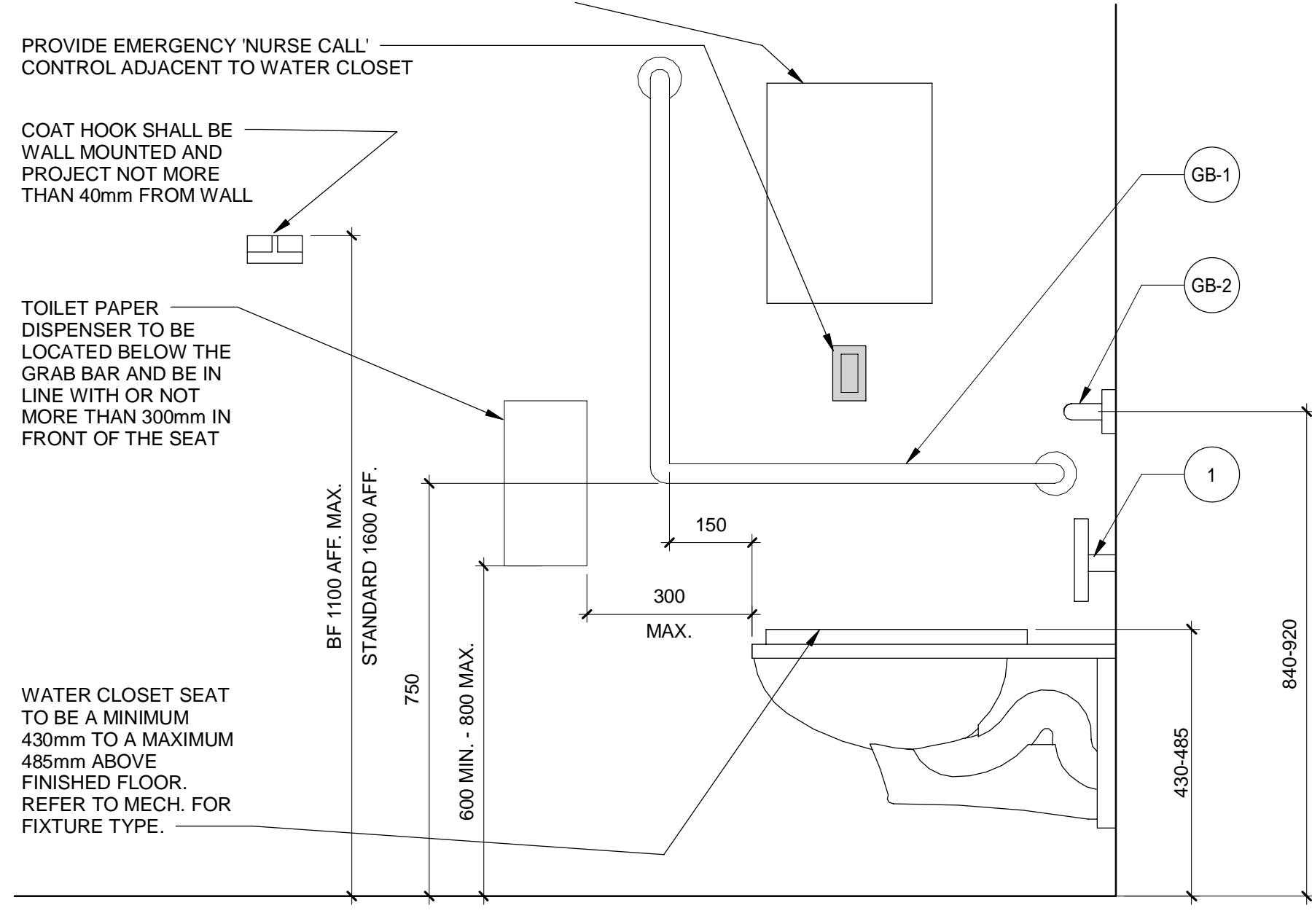
BARRIER FREE LAVATORY TO BE INSTALLED NO LESS THAN 460mm FROM WALL TO CENTER OF LAVATORY. ALL MOUNTING HEIGHTS, CLEARANCES, ETC. AS PER OBC 3.8.3.11. ARE TO BE IN COMPLIANCE.

3 DETAIL-VANITY SEMI RECESSED LAVATORY

A-403 REF: A-404 Scale: 1 : 10

- GB-1 BE CONTINUOUSLY L-SHAPED WITH 750mm LONG HORIZONTALLY AND 750mm VERTICALLY, INSTALLED 750mm ABOVE FINISHED FLOOR AND 150mm IN FRONT OF WATER CLOSET
 - GB-2 BE A MIN. 600mm LONG AND BE INSTALLED HORIZONTALLY FROM 840mm TO 920mm ABOVE THE FINISHED FLOOR AND, WHERE THE WATER CLOSET HAS A WATER TANK, BE INSTALLED 150mm ABOVE TANK
- *GRAB BARS ARE TO BE INSTALLED TO RESIST A LOAD OF OF AT LEAST 1.3 kN APPLIED VERTICALLY OR HORIZONTALLY. BE NOT LESS THAN 30mm AND NOT MORE THAN 40mm IN DIAMETER, HAVE A CLEARANCE OF 38mm TO 50mm FROM THE WALL TO THE INSIDE SURFACE OF THE GRAB BAR AND HAVE A SLIP-RESISTANT SURFACE.
- 1 PROVIDE BACK SUPPORT WHERE THERE IS NO SEAT LID OR TANK

PROVIDE EMERGENCY SIGNAGE IN LETTERS AT LEAST 25mm HIGH WITH A 5mm STROKE THAT IS POSTED ABOVE THE EMERGENCY 'NURSE CALL.' EMERGENCY SIGN TO SAY: 'IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE.'



1 ELEVATION DETAIL - TYPICAL BARRIER-FREE WATER CLOSET AND ACCESSORIES

A-403 REF: Scale: 1 : 10

GENERAL UNIVERSAL WASHROOM NOTES:

ALL WASHROOM ACCESSORIES TO BE INSTALLED WITHIN ACCESSIBLE REACH: NOT LESS THAN 900mm AND NOT MORE THAN 1100mm ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

BARRIER FREE PUSH BUTTON

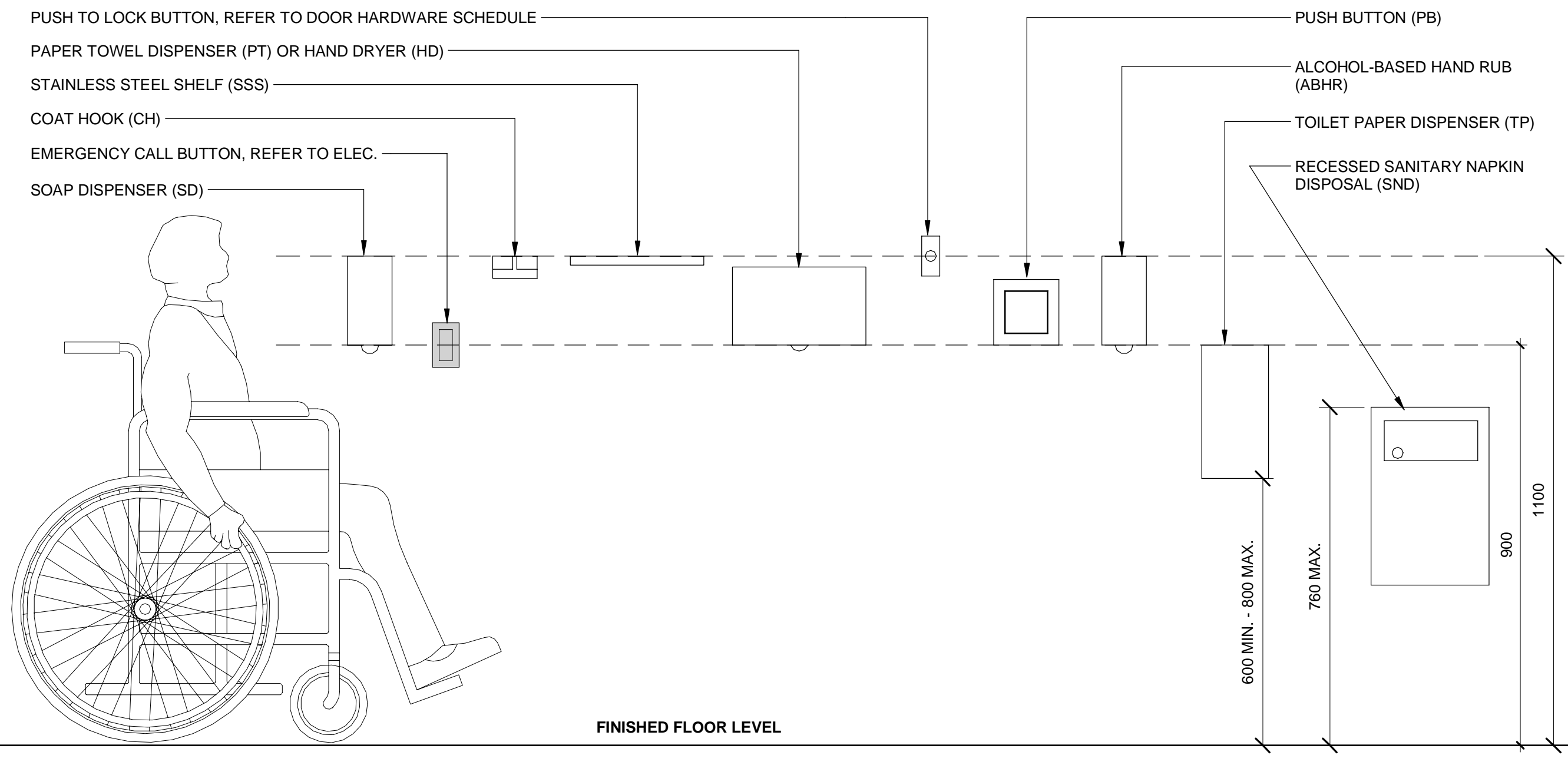
CONTROLS FOR THE OPERATION OF THE SAFETY DEVICES, INCLUDING BUT NOT LIMITED TO EMERGENCY 'NURSE CALL' CONTROL SWITCH SHALL BE OPERABLE USING A CLOSED FIST, WITH A FORCE OF NOT MORE THAN 22.2N AND BE MOUNTED NOT LESS THAN 900mm AND NOT MORE THAN 1100mm ABOVE FINISHED FLOOR.

TOWEL DISPENSER OR OTHER HAND DRYING EQUIPMENT SHALL BE OPERABLE WITH ONE HAND AND IS TO BE INSTALLED NOT MORE THAN 1100mm ABOVE FINISHED FLOOR AND NOT MORE THAN 610mm FROM THE EDGE OF THE LAVATORY.

SOAP DISPENSERS TO BE INSTALLED SO THAT THE DISPENSING HEIGHT IS NOT MORE THAN 1100mm ABOVE FINISHED FLOOR AND WITHIN 500mm FROM THE FRONT OF THE LAVATORY.

WHERE A SHELF IS INSTALLED ABOVE A LAVATORY, IT SHALL BE LOCATED NOT MORE THAN 200mm ABOVE THE TOP OF THE LAVATORY AND NOT MORE THAN 1100mm ABOVE FINISHED FLOOR. IT SHALL NOT PROJECT MORE THAN 100mm FROM THE WALL.

COAT HOOKS SHALL BE MOUNTED ON A SIDE WALL AND PROJECT NOT MORE THAN 40mm FROM THE WALL.



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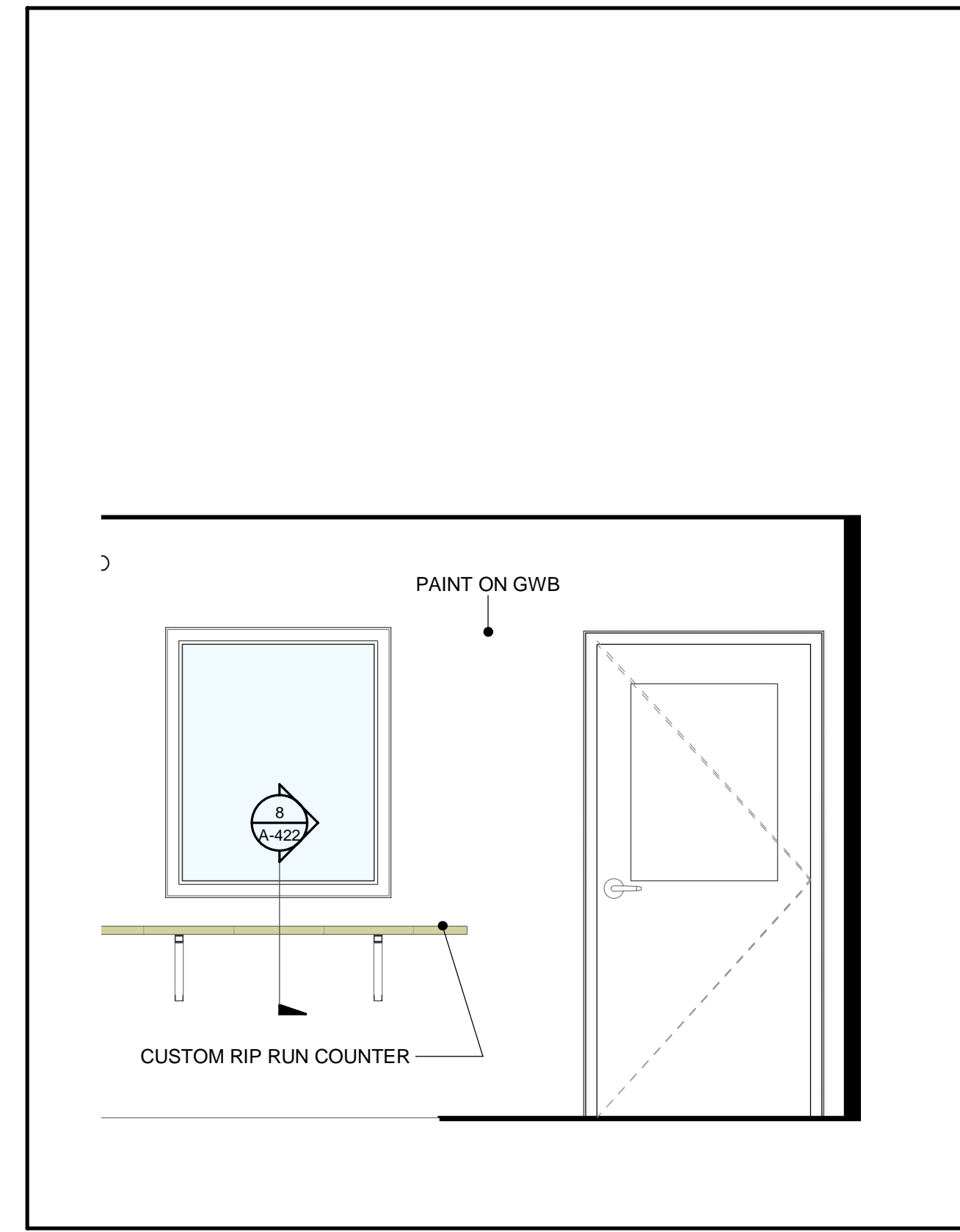
City of Peterborough
FIRE STATION NO. 2

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DETAILS -
BARRIER-FREE
WASHROOM
STANDARDS

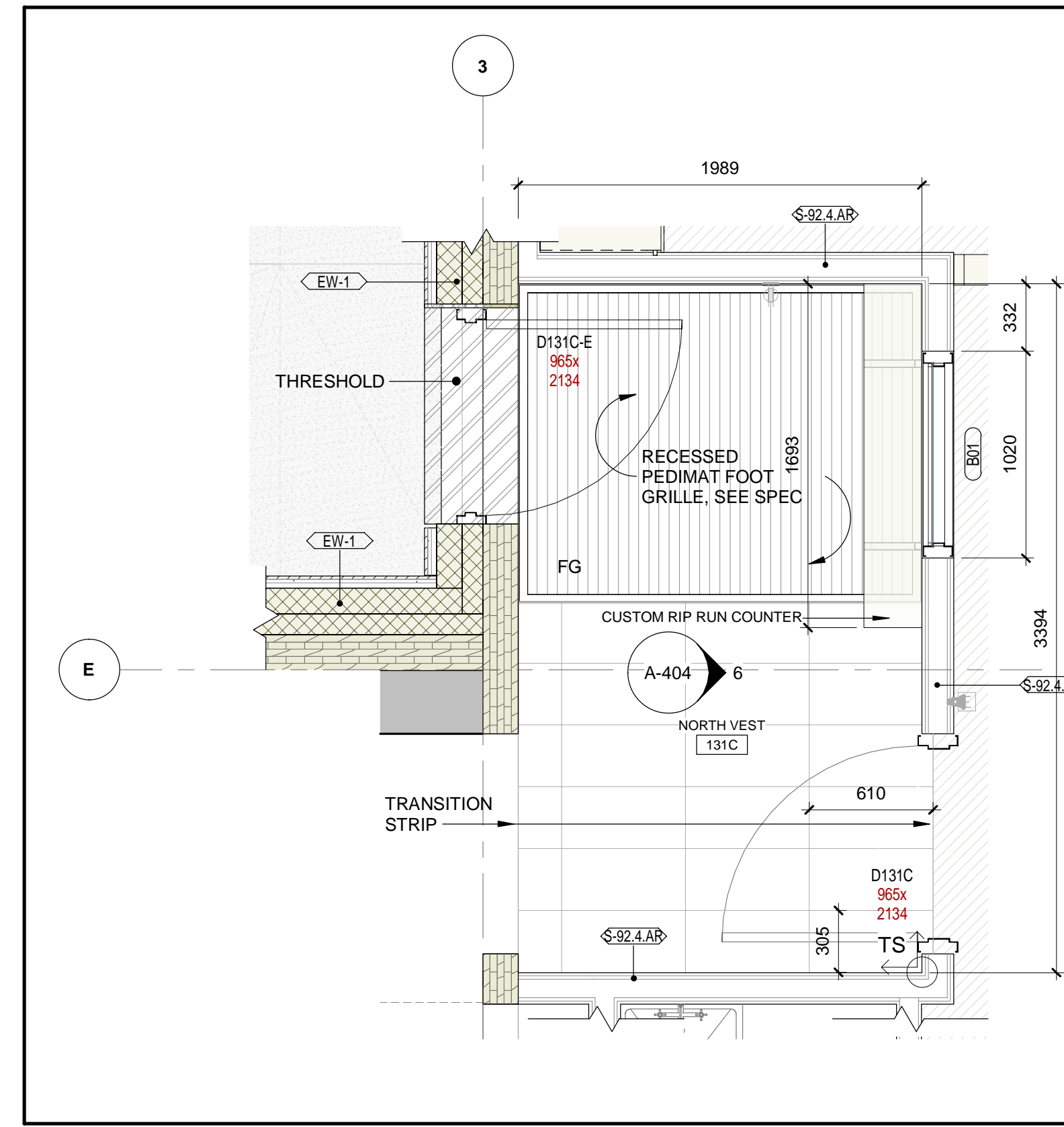
ISSUE / REVISIONS

1 Issued for Building Permit Response	Mar.21.22
2 Issued for Building Permit Response	Apr.25.22
3 Issued for Tender	Aug.18.22



6 NORTH VESTIBULE - EAST ELEV.

A-404 REF: A-404 Scale: 1 : 25



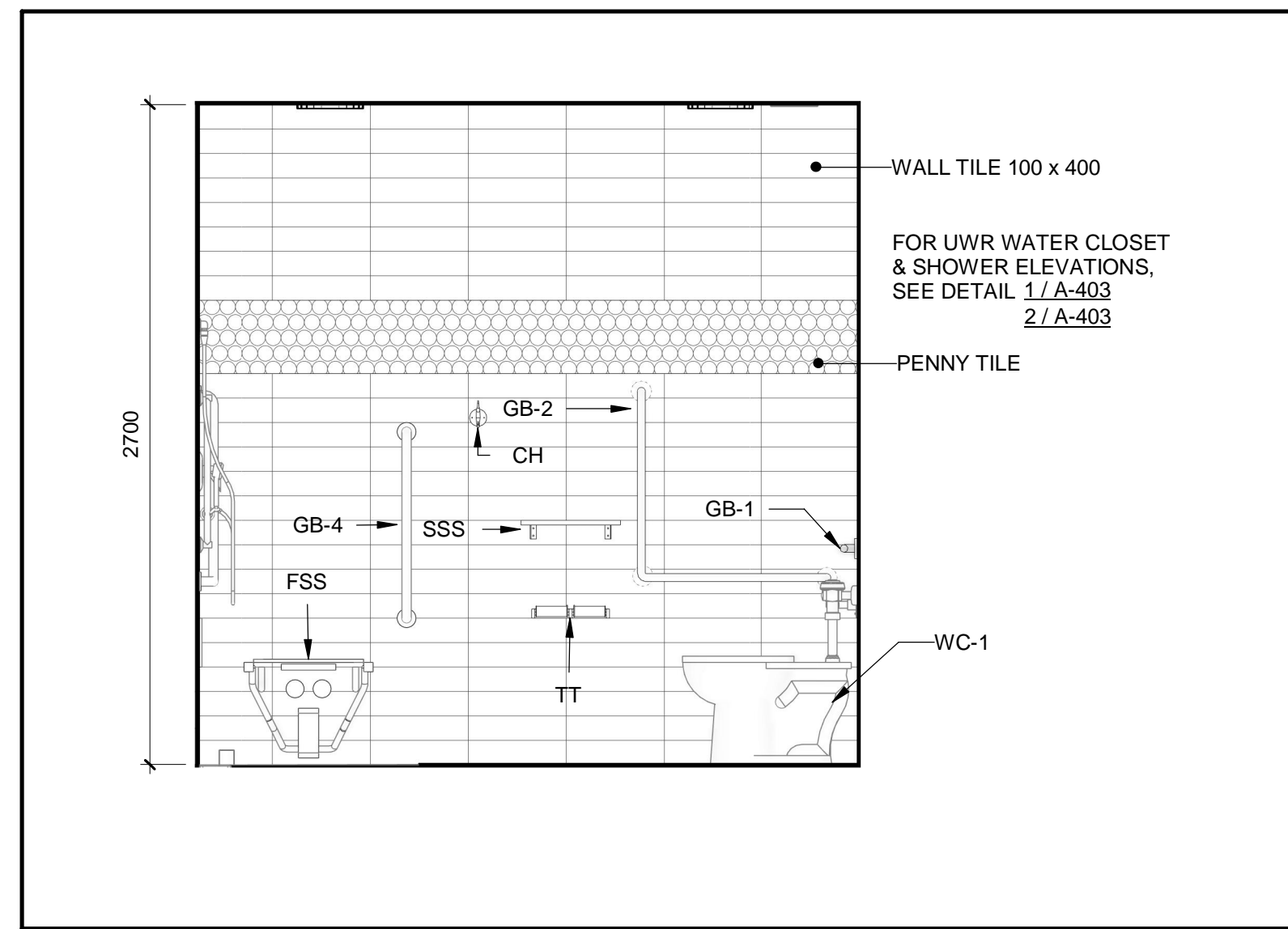
4 ENLARGED PLAN - NORTH VEST

A-404 REF: A-101 Scale: 1 : 25

CLT PANEL COORDINATION NOTES:

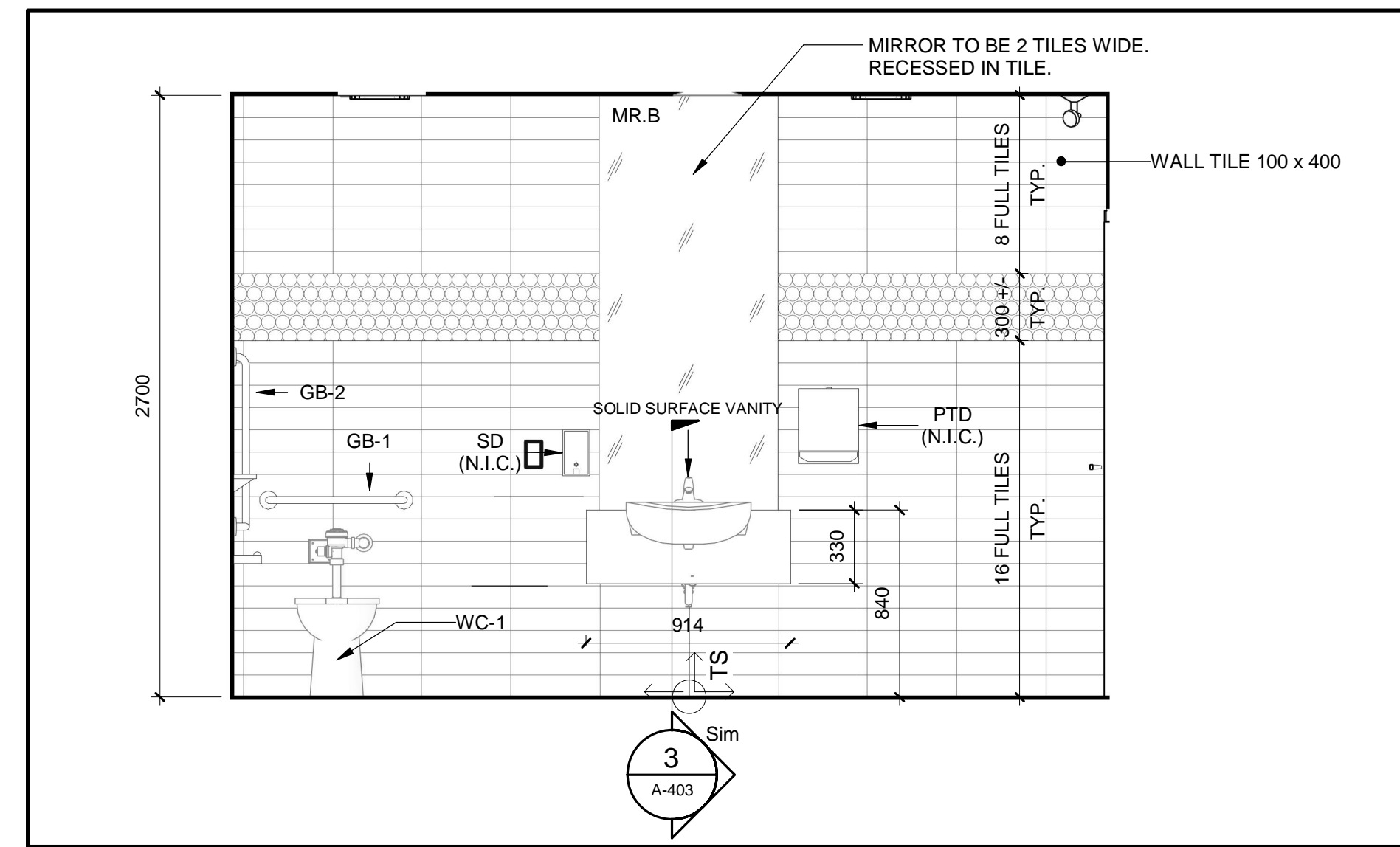
- GC TO ENSURE CLT & MECH. TRADES COORDINATE PENETRATIONS AND FINAL DUCT SIZING/RUNS THROUGH CLT
- CLT PANELS FACING APPARATUS BAY AND CLT PANELS AT BUILDING PERIMETER FACING INTERIOR SHALL BE ARCHITECTURE FINISH.

WASHROOM ACCESSORIES			
Notes: Refer Details for mounting heights. Provide blocking in metal stud partitions for mounting backup			
ID	QTY.	DESCRIPTION	REMARKS
ACS	1	ADULT CHANGE STATION	
CH	11	COAT HOOK	
CR	3	CURTAIN ROD	
FSS	1	FOLDING SHOWER SEAT	
GB-1	2	610mm HORIZONTAL GRAB BAR	
GB-2	1	762mm x 762mm L-SHAPED GRAB BAR	
GB-3	1	762mm x 914mm L-SHAPED GRAB BAR	
GB-4	1	762mm VERTICAL GRAB BAR	
MR.A	7	1219mmx1829mm CUSTOM MIRROR	CUSTOM, SEE GLAZING SPEC.
MR.B	1	800mmx1860mm CUSTOM MIRROR	CUSTOM, SEE GLAZING SPEC.
MR.C	1	762mmx1384mm CUSTOM MIRROR	CUSTOM, SEE GLAZING SPEC.
MR.D	2	762mmx1486mm CUSTOM MIRROR	CUSTOM, SEE GLAZING SPEC.
MR.F	1	762mmx1173mm CUSTOM MIRROR	CUSTOM, SEE GLAZING SPEC.
PTD	5	SURFACE MOUNTED PAPER TOWEL DISPENSER	(N.I.C.)
SD	5	SOAP DISPENSER	(N.I.C.)
TT	5	TOILET TISSUE DISPENSER	(N.I.C.)
LWS	1	UNIVERSAL WALL SHELF	



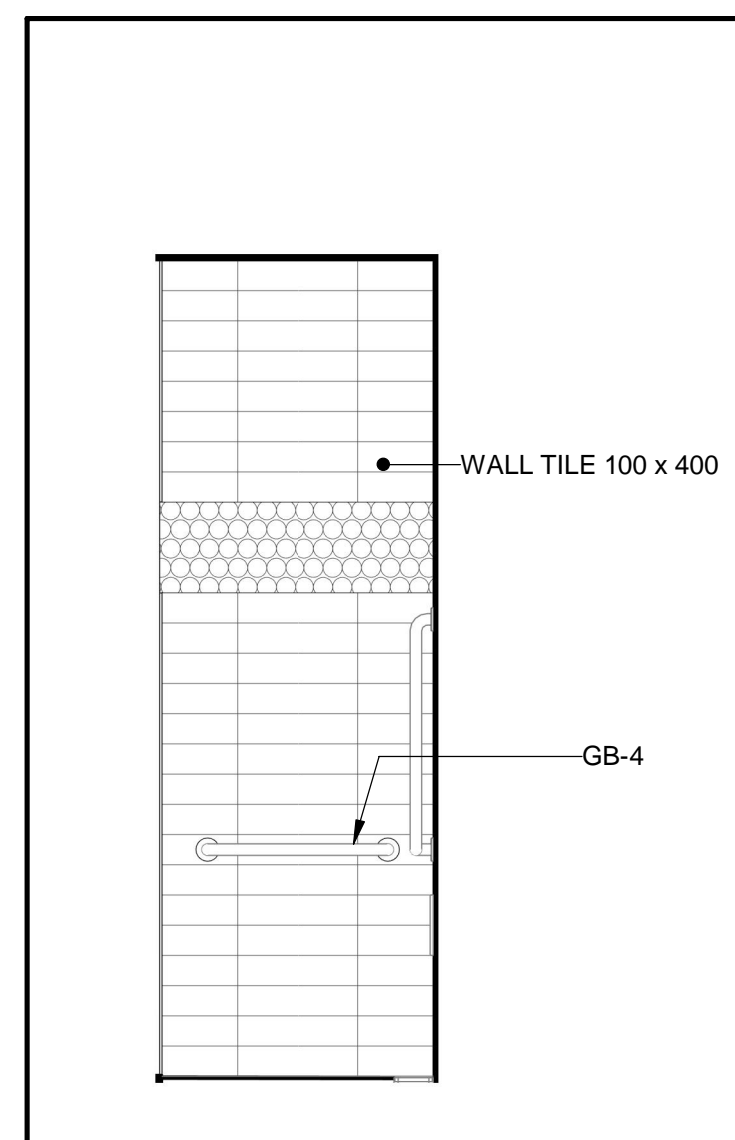
8 UWR - SOUTH ELEVATION

A-404 REF: A-404 Scale: 1 : 25



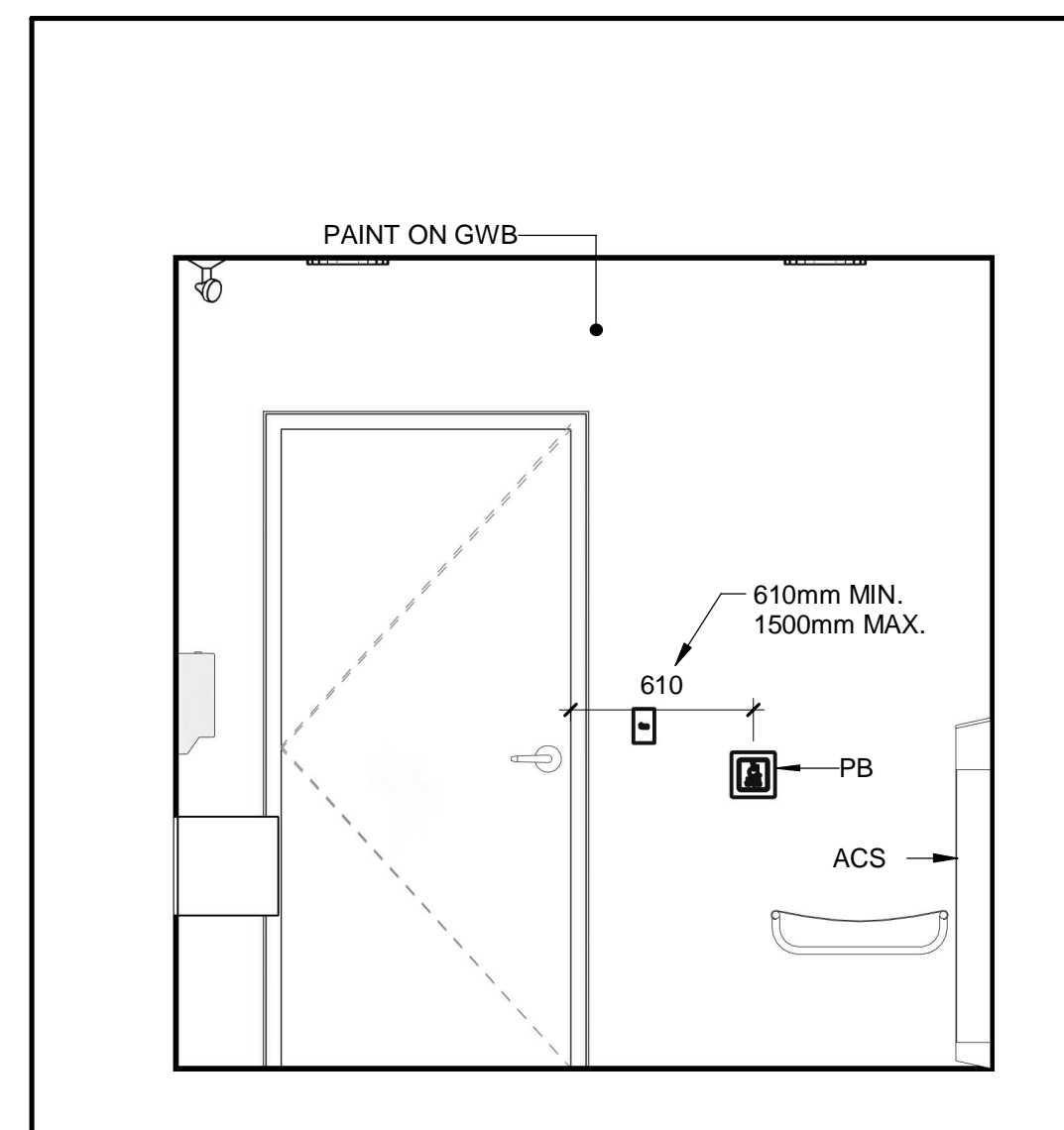
3 UWR - WEST ELEVATION

A-404 REF: A-404 Scale: 1 : 25



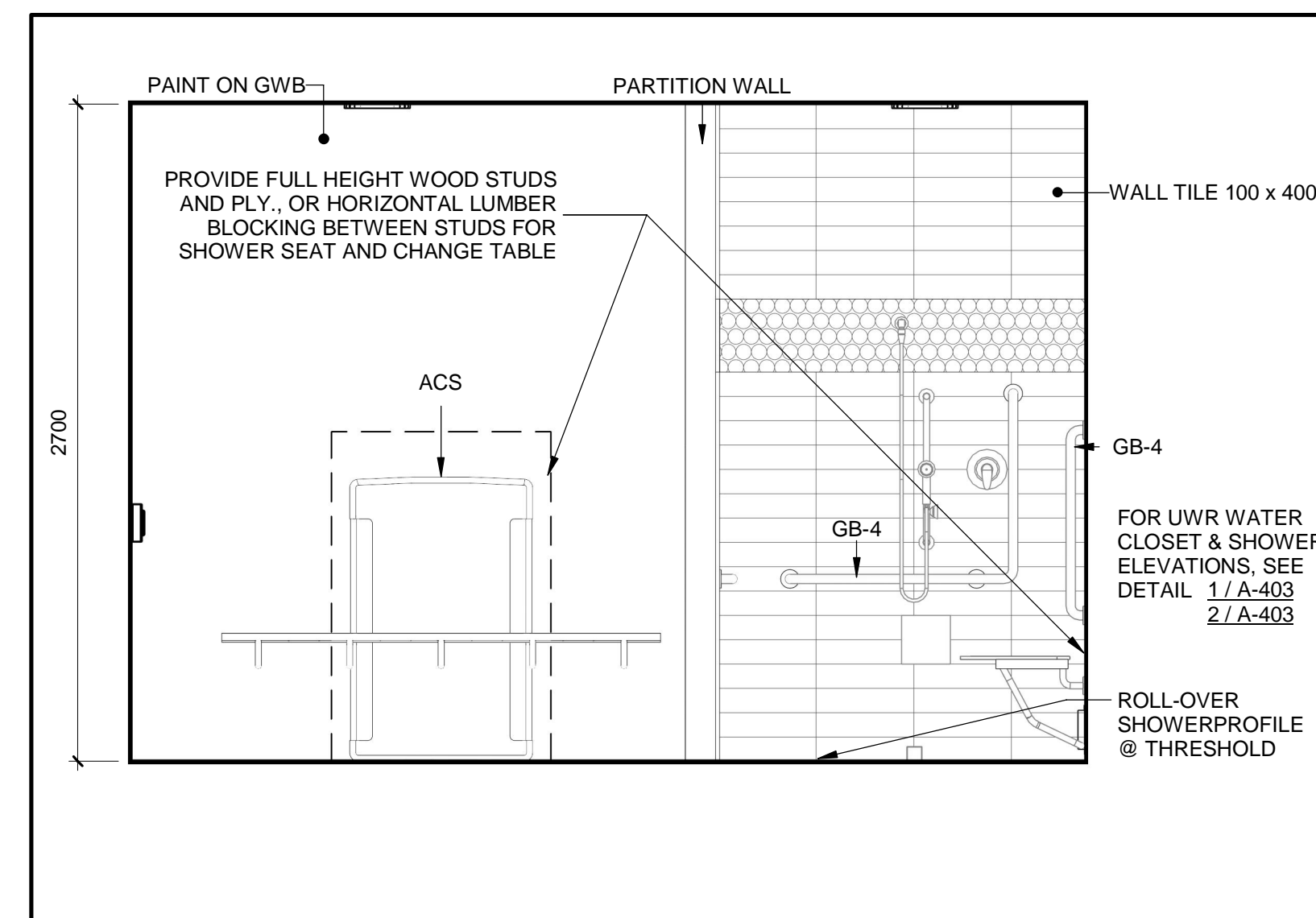
7 UWR SHOWER - NORTH ELEVATION

A-404 REF: A-404 Scale: 1 : 25



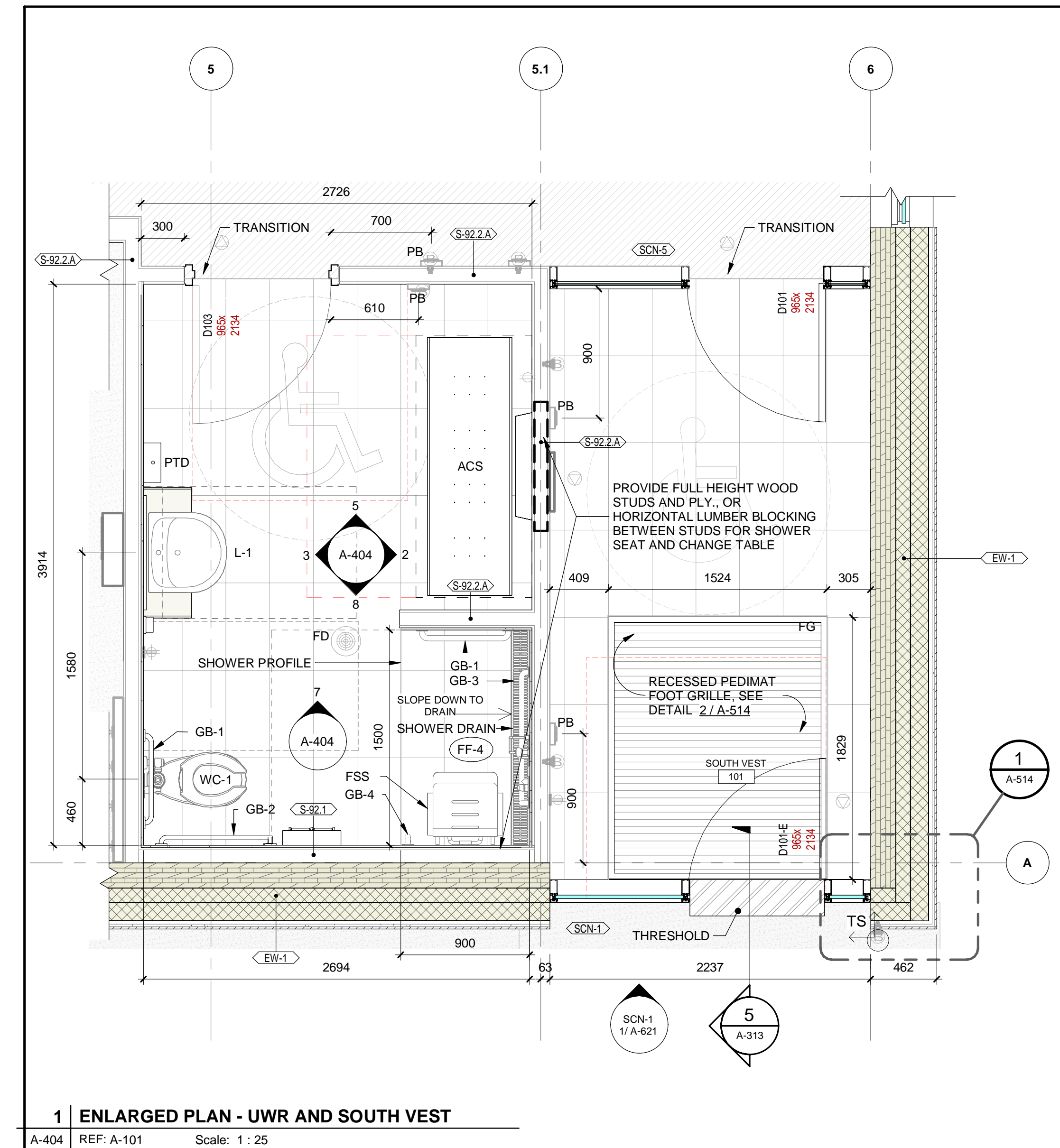
5 UWR - NORTH ELEVATION

A-404 REF: A-404 Scale: 1 : 25



2 UWR - EAST ELEVATION

A-404 REF: A-404 Scale: 1 : 25



1 ENLARGED PLAN - UWR AND SOUTH VEST

A-404 REF: A-101 Scale: 1 : 25



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CONSTRUCTION DOCUMENTATION

PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

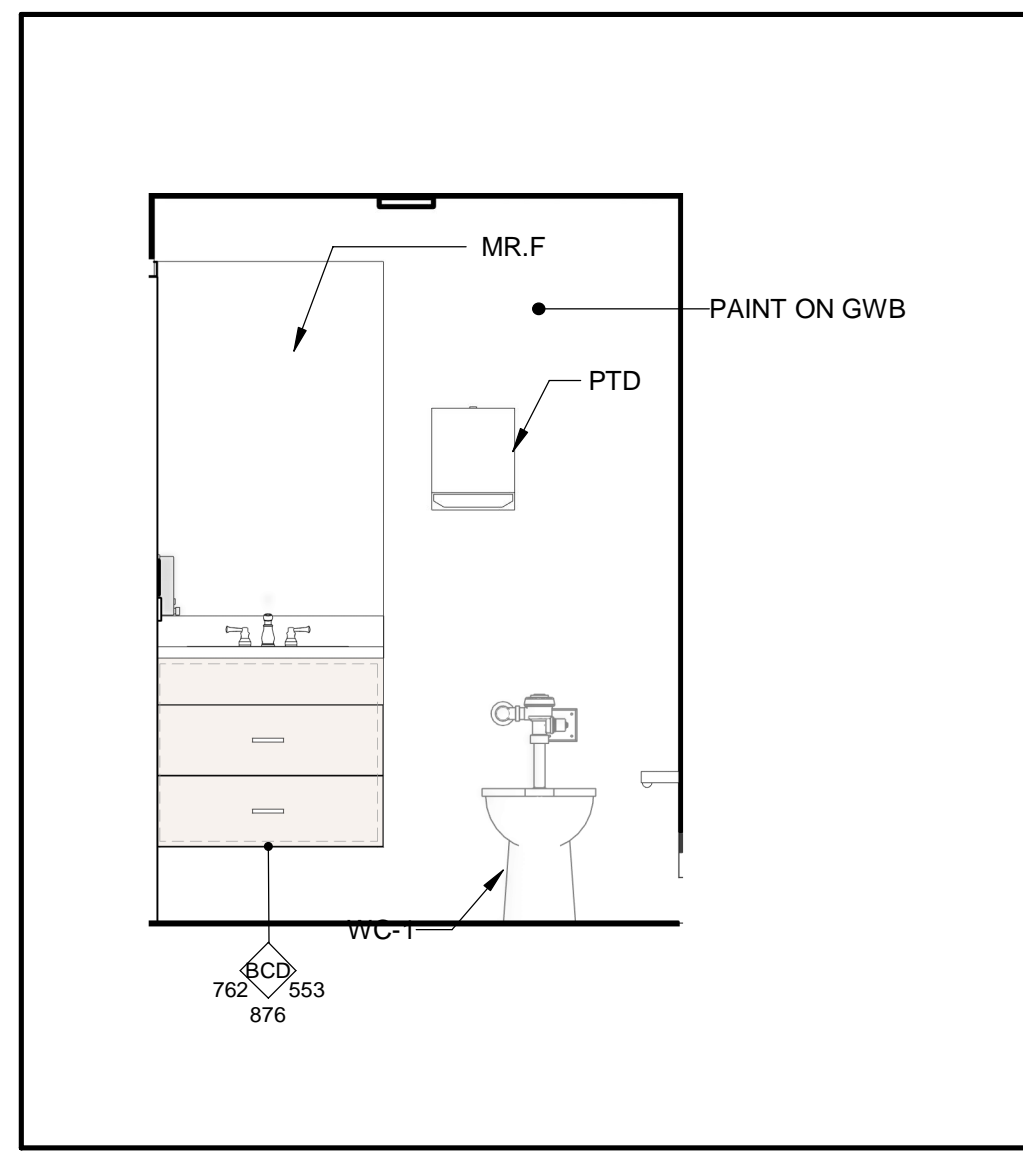
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

ENLARGED PLANS & ELEVATIONS - UWR & VESTIBULE

A-404

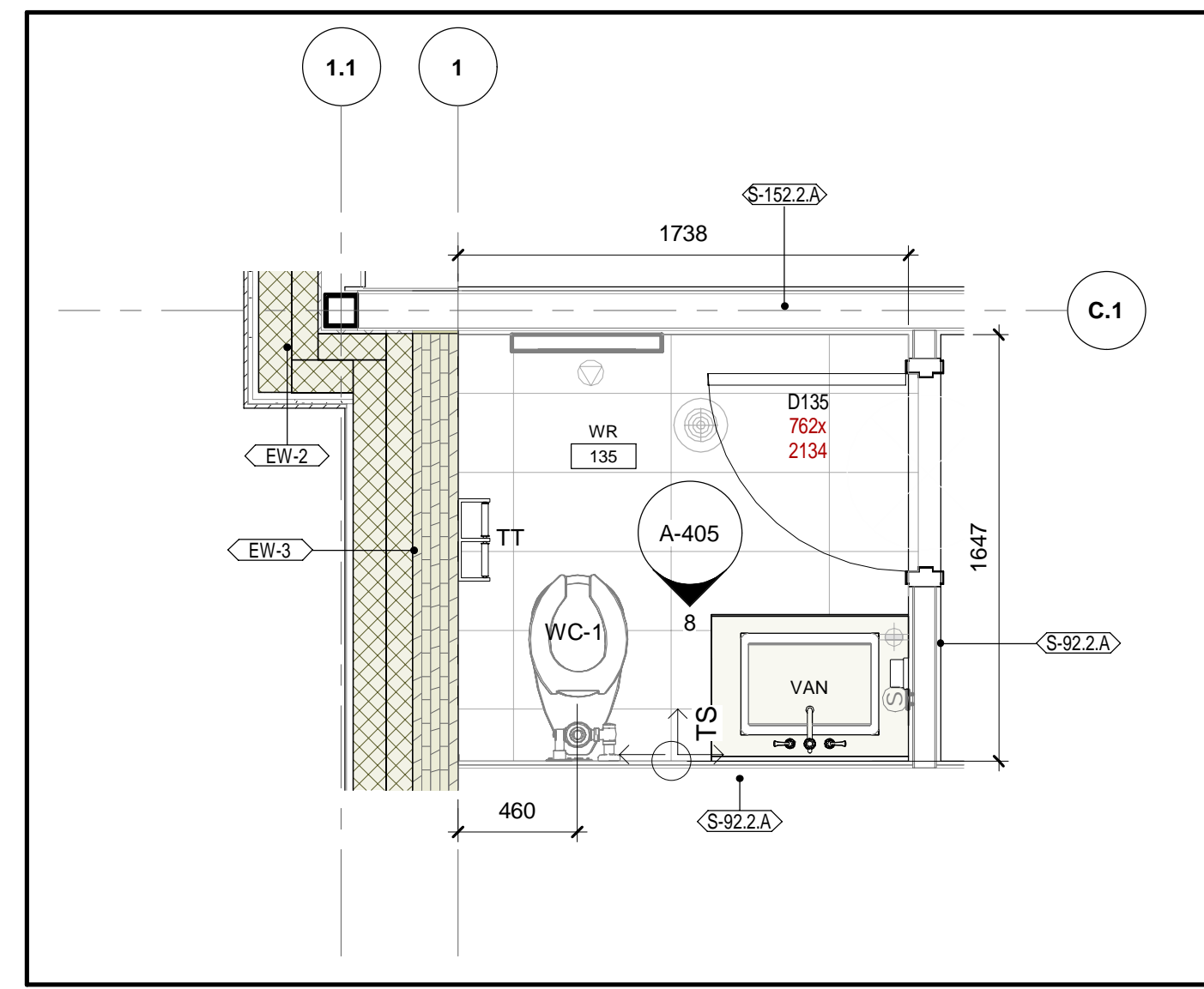
ISSUE / REVISIONS

1	Issued for Building Permit Response	Apr.25.22
2	Issued for Tender	Aug.18.22



8 WR - SOUTH ELEVATION

A-405 REF: A-405 Scale: 1 : 25

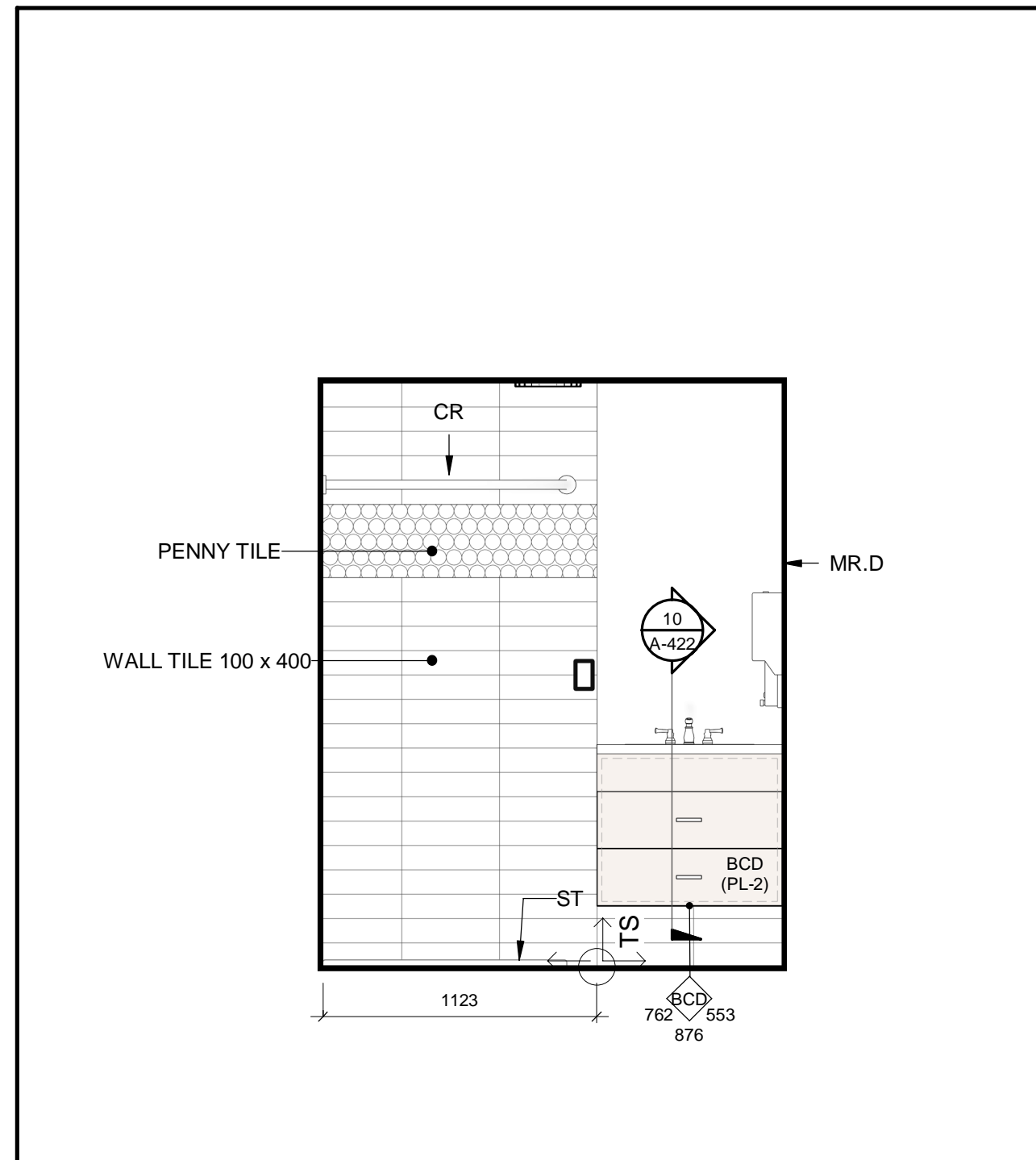


5 ENLARGED PLAN - WR

A-405 REF: A-101 Scale: 1 : 25

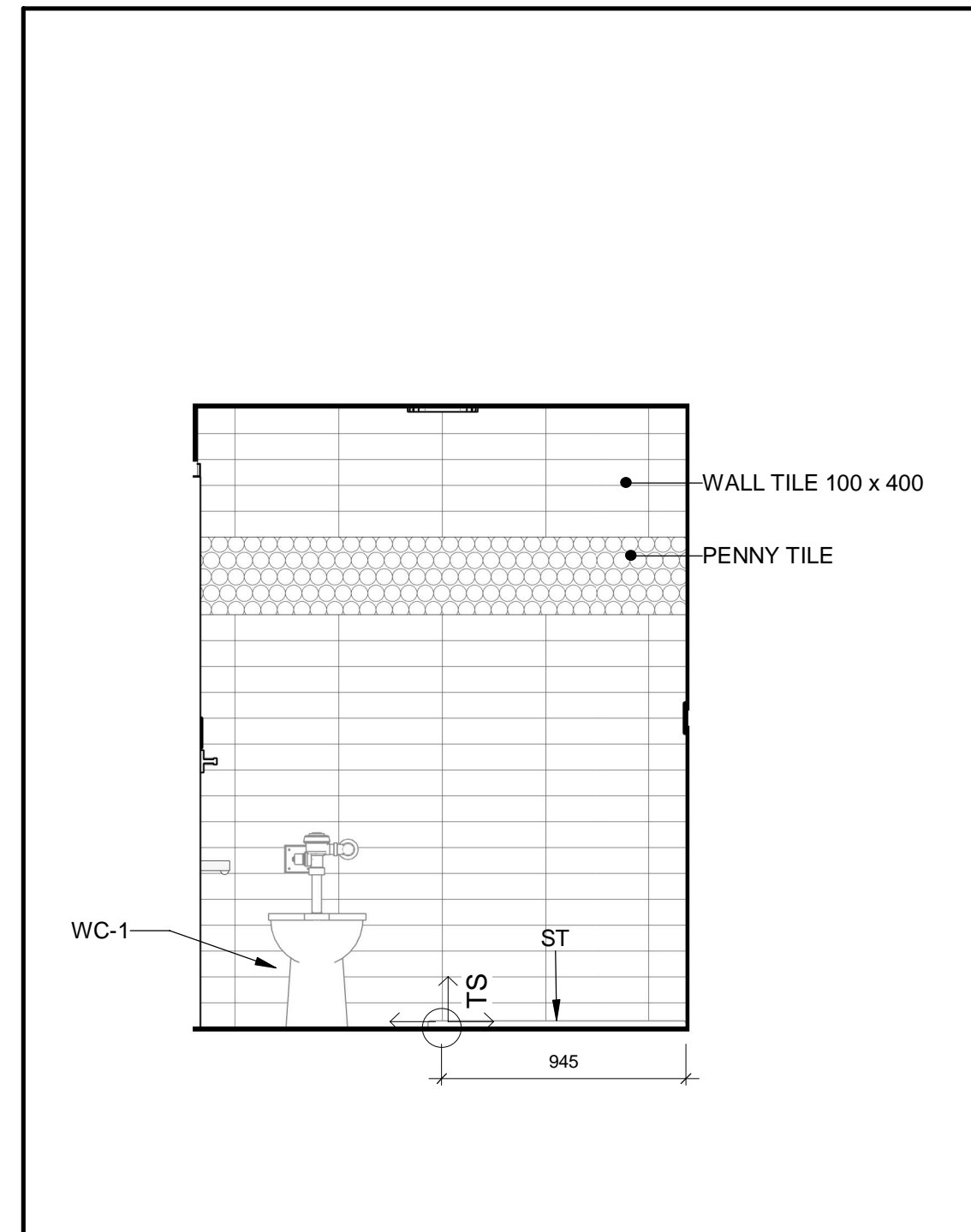
WASHROOM ACCESSORIES			
ID	QTY.	DESCRIPTION	REMARKS
ACS	1	ADULT CHANGE STATION	
CH	11	COAT HOOK	
CR	3	CURTAIN ROD	
FSS	1	FOLDING SHOWER SEAT	
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GB-2	1	762mm x 762mm L-SHAPED GRAB BAR	
GB-3	1	762mm x 914mm L-SHAPED GRAB BAR	
GB-4	1	762mm VERTICAL GRAB BAR	
MR.A	7	1219mmx1829mm CUSTOM MIRROR	CUSTOM, SEE GLAZING SPEC.
MR.B	1	800mmx1860mm CUSTOM MIRROR	CUSTOM, SEE GLAZING SPEC.

WASHROOM ACCESSORIES			
ID	QTY.	DESCRIPTION	REMARKS
MR.C	1	762mmx1384mm CUSTOM MIRROR	CUSTOM, SEE GLAZING SPEC.
MR.D	2	762mmx1486mm CUSTOM MIRROR	CUSTOM, SEE GLAZING SPEC.
MR.F	1	762mmx1173mm CUSTOM MIRROR	CUSTOM, SEE GLAZING SPEC.
PTD	5	SURFACE MOUNTED PAPER TOWEL DISPENSER	(N.I.C.)
SD	5	SOAP DISPENSER	(N.I.C.)
TT	5	TOILET TISSUE DISPENSER	(N.I.C.)
UWS	1	UNIVERSAL WALL SHELF	(N.I.C.)



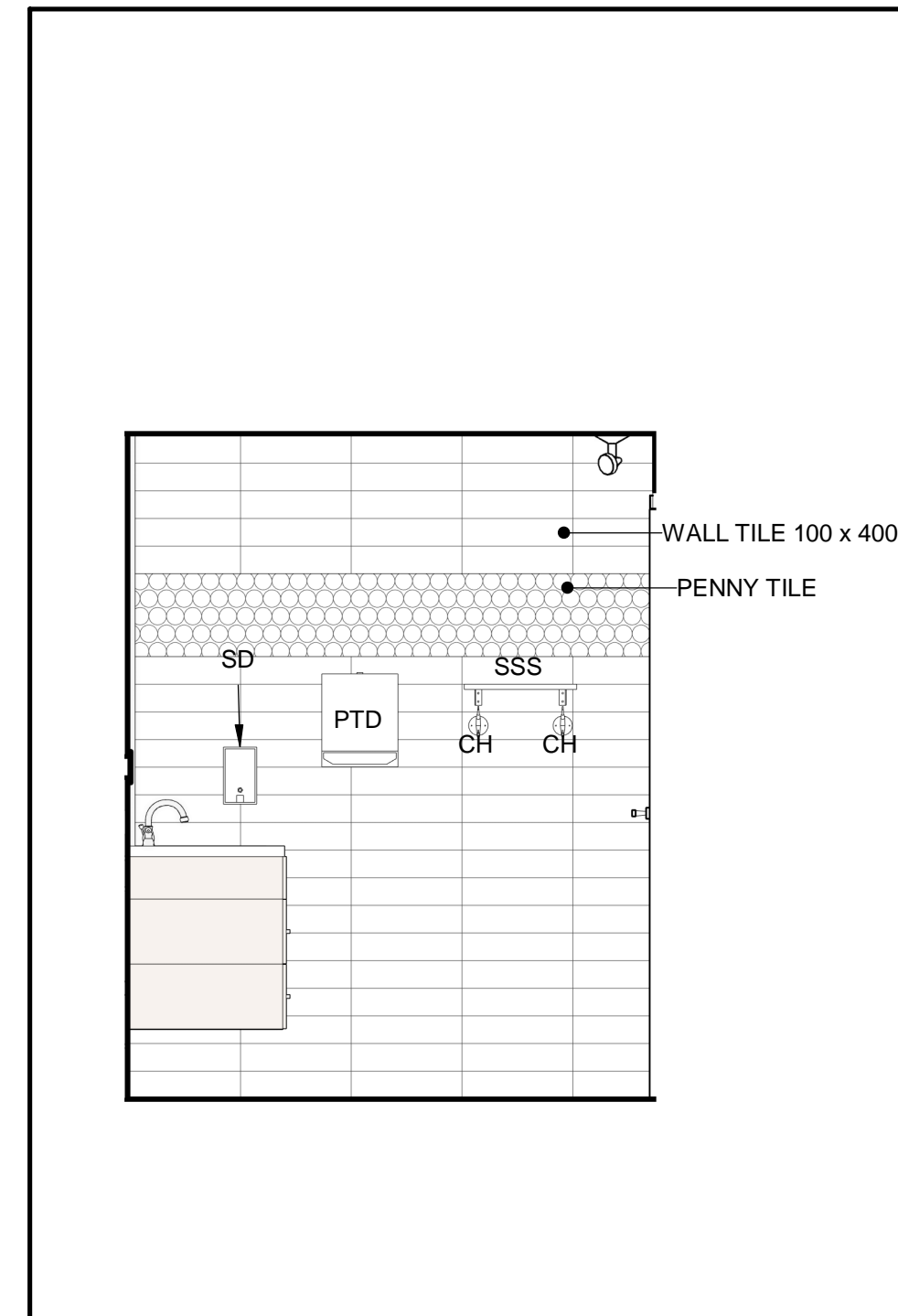
7 TYP. WR/SHOWER - WEST ELEVATION

A-405 REF: A-405 Scale: 1 : 25



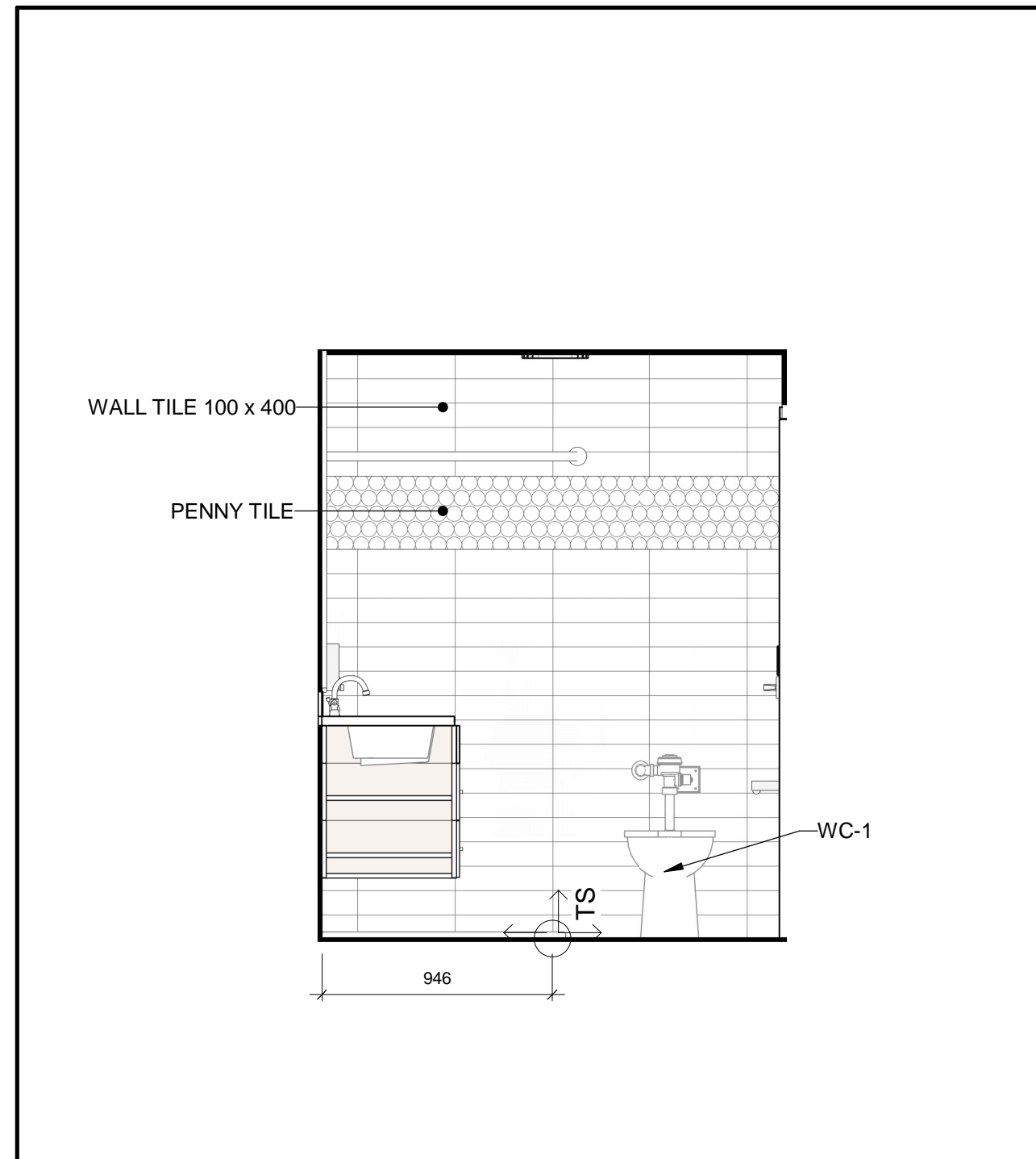
4 TYP. WR/SHOWER - SOUTH ELEVATION

A-405 REF: A-405 Scale: 1 : 25



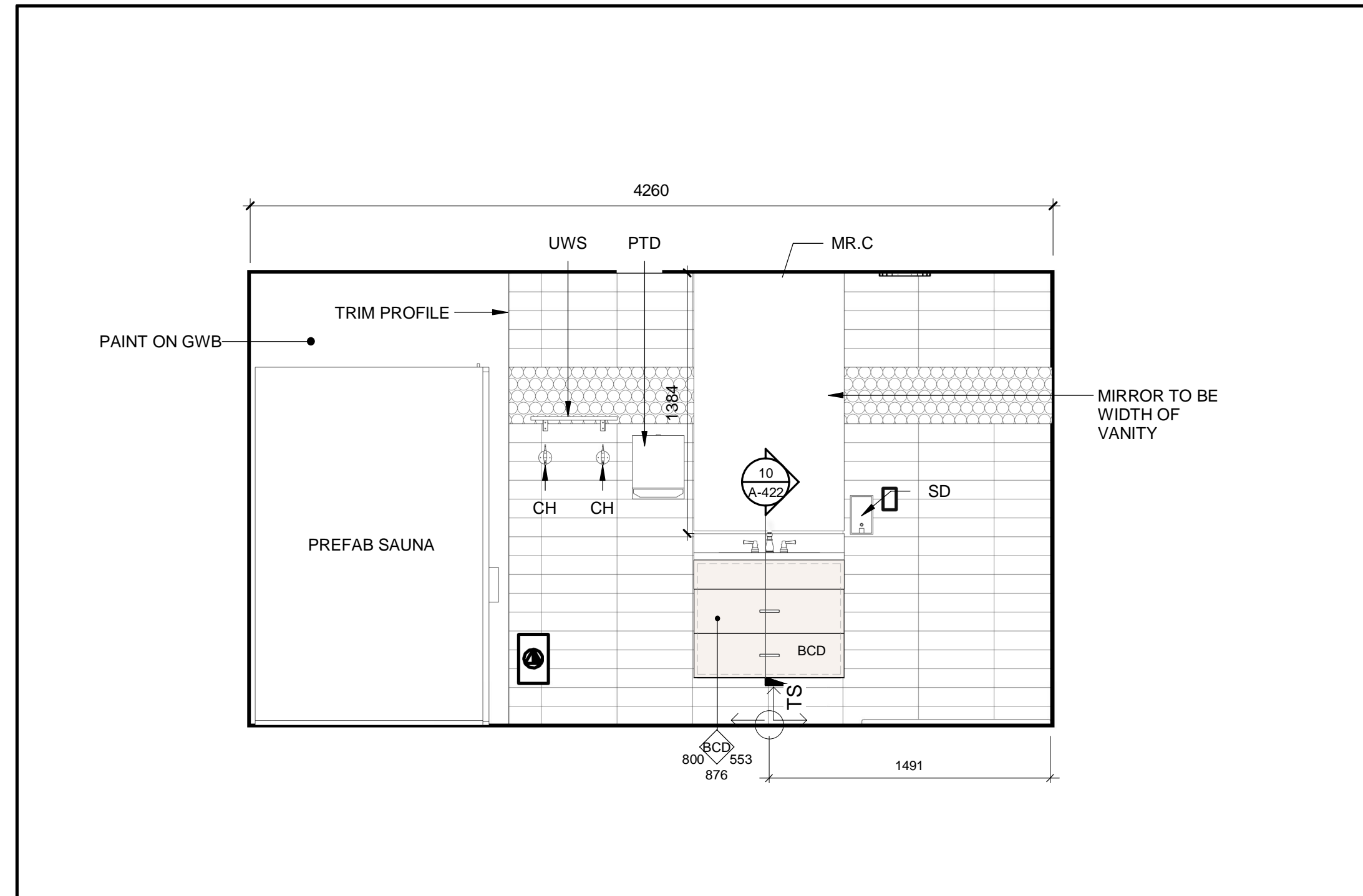
3 TYP. WR/SHOWER - NORTH ELEVATION

A-405 REF: A-405 Scale: 1 : 25



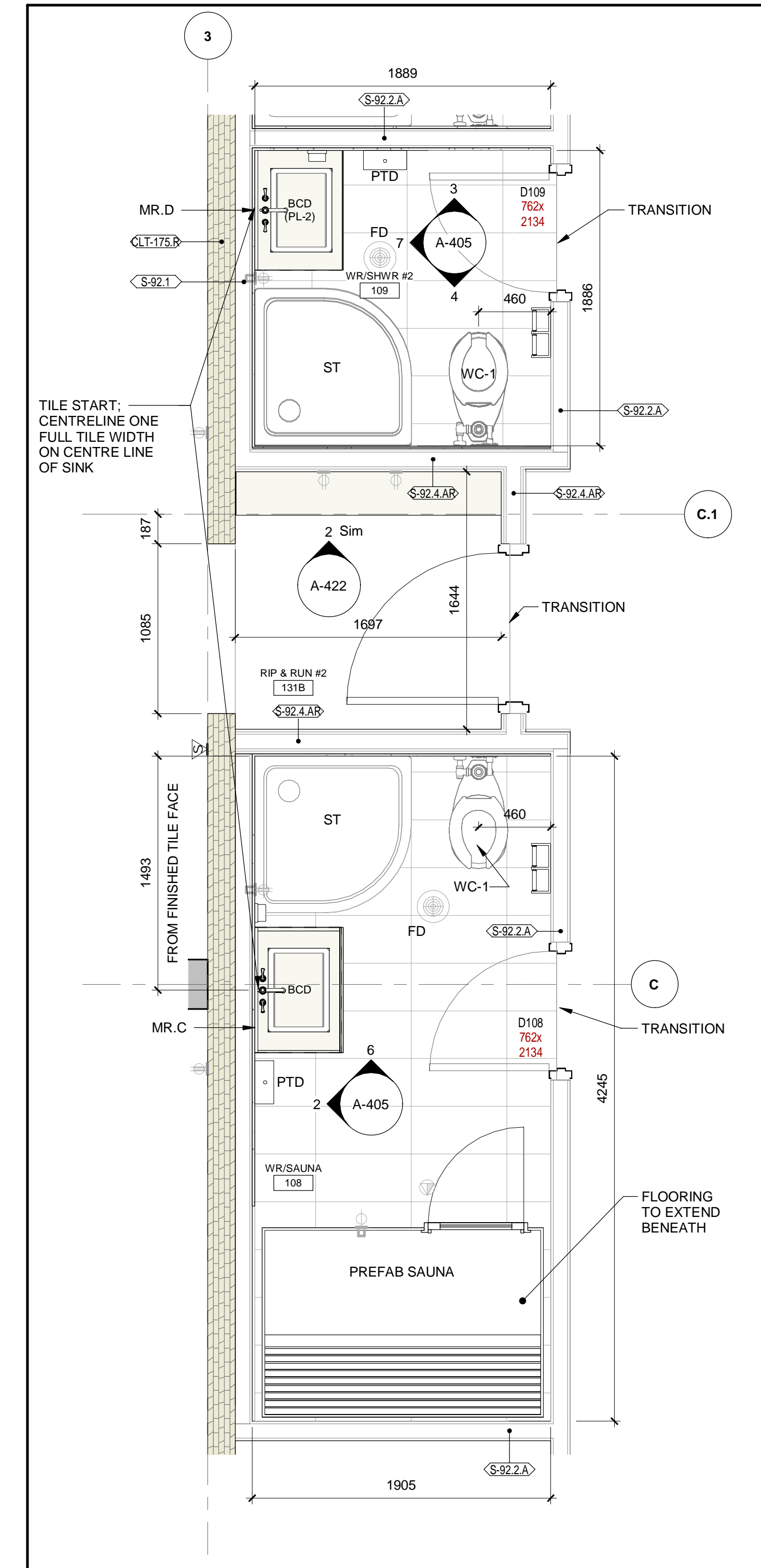
6 WR/SHOWER/SAUNA - NORTH ELEVATION

A-405 REF: A-405 Scale: 1 : 25



2 WR/SHOWER/SAUNA - WEST ELEVATION

A-405 REF: A-405 Scale: 1 : 25



1 ENLARGED PLAN - WR/SHWR/SAUNA

A-405 REF: A-101 Scale: 1 : 25



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CONSTRUCTION DOCUMENTATION

PROJECT No. 21-100
 START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

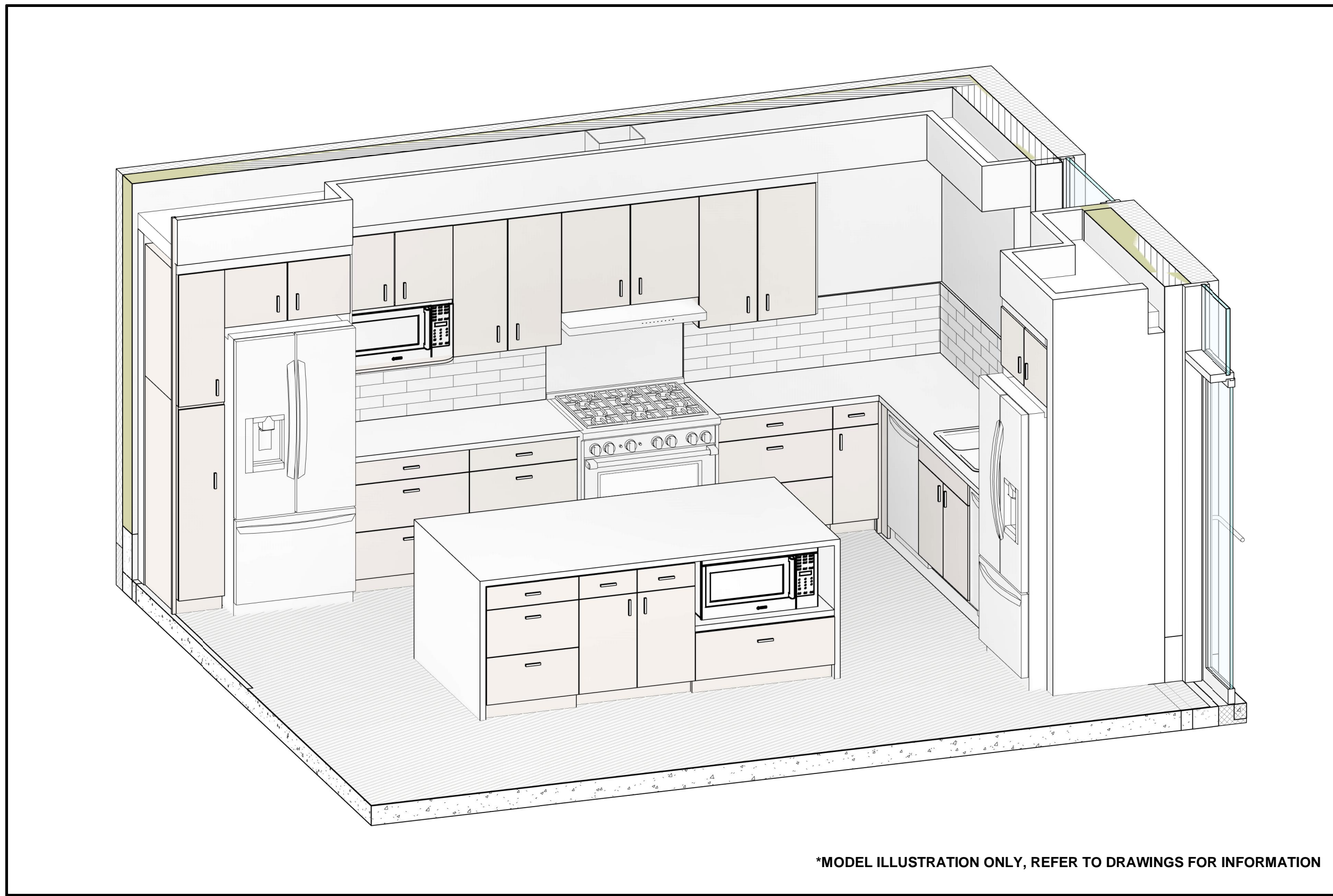
(Municipal File No. SPC 1009)
 100 Marina Boulevard, Peterborough ON
 K9H 6M6

ENLARGED PLANS & ELEVATIONS - WASHROOM, SAUNA & RIP RUN

A-405

ISSUE / REVISIONS

1	Issued for Building Permit Response	Apr.25.22
2	Issued for Tender	Aug.18.22



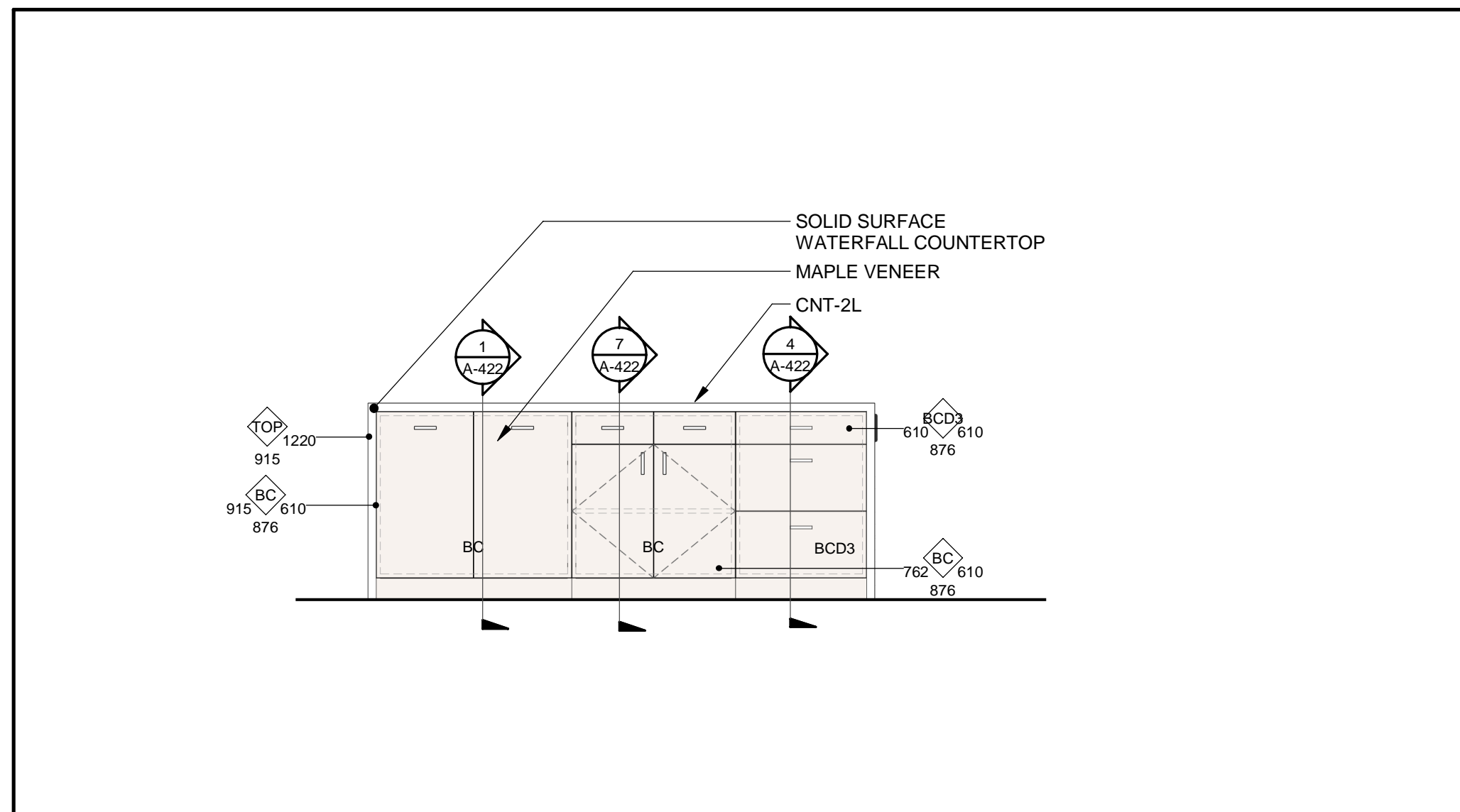
*MODEL ILLUSTRATION ONLY, REFER TO DRAWINGS FOR INFORMATION

CLT PANEL COORDINATION NOTES:

- GC TO ENSURE CLT & MECH. TRADES COORDINATE PENETRATIONS AND FINAL DUCT SIZING/RUNS THROUGH CLT
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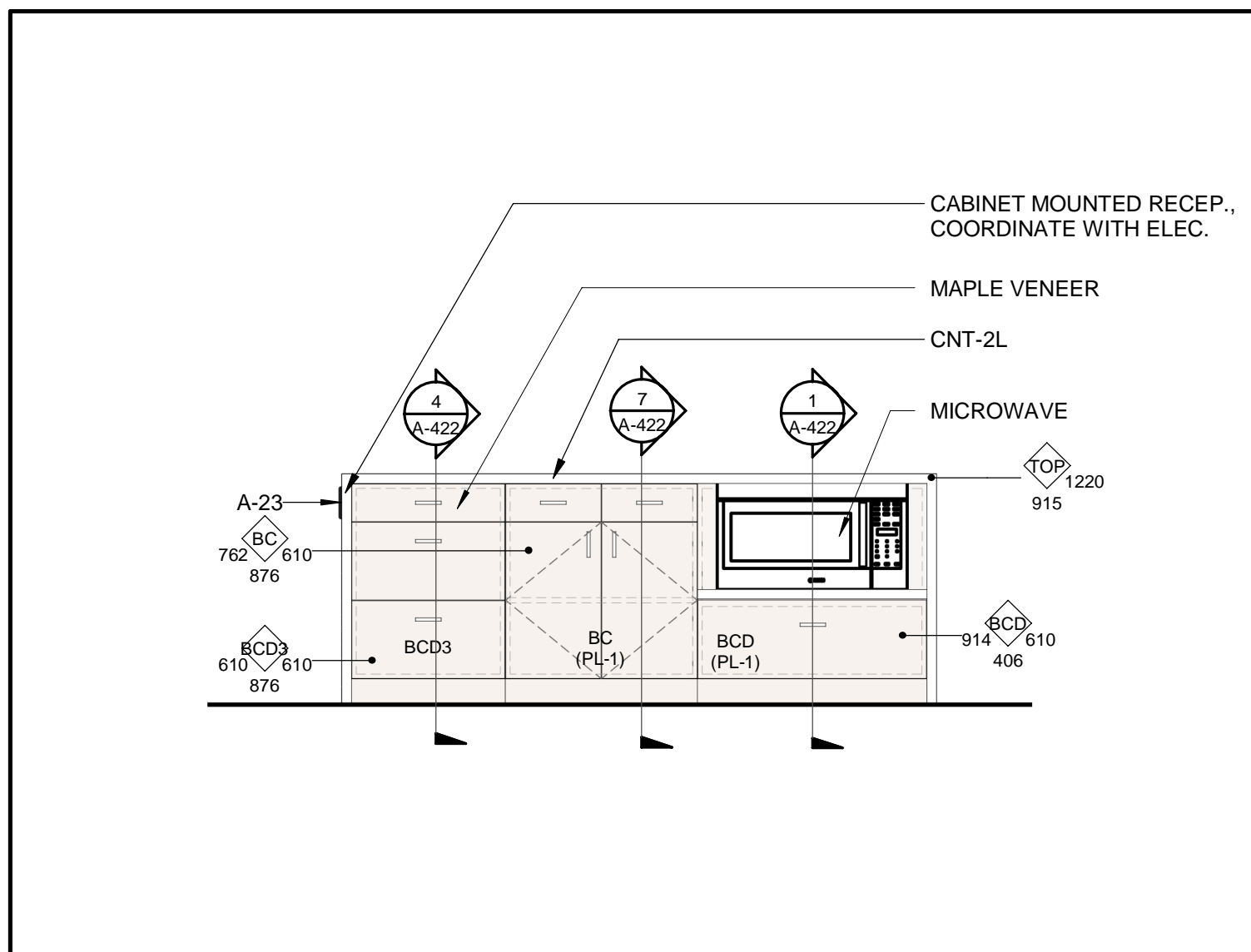
4 | 3D KITCHEN AXO

A-406 REF: A-406 Scale:



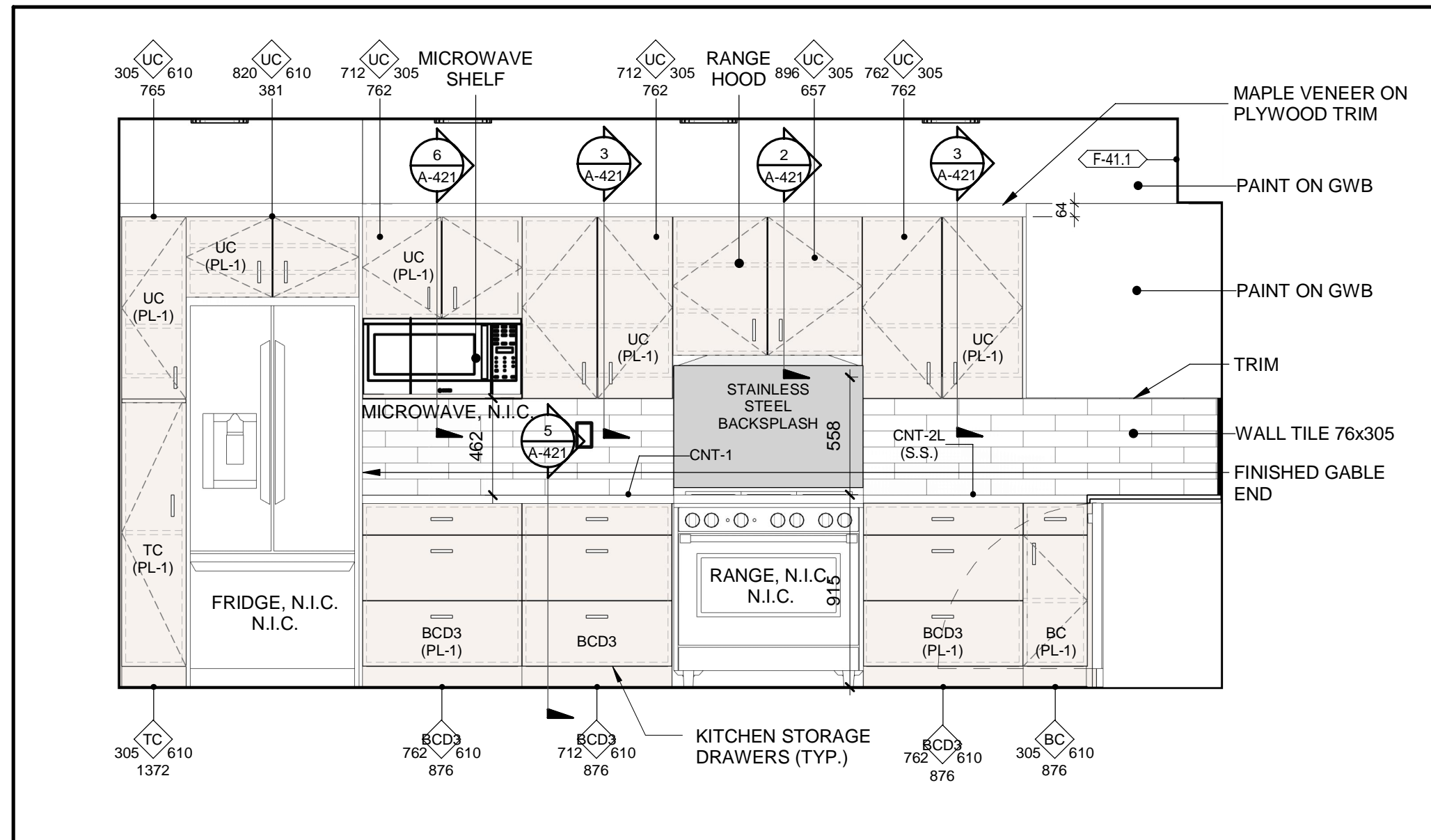
6 | INTERIOR ELEV. - KITCHEN ISLAND FRONT

A-406 REF: A-406 Scale: 1 : 25



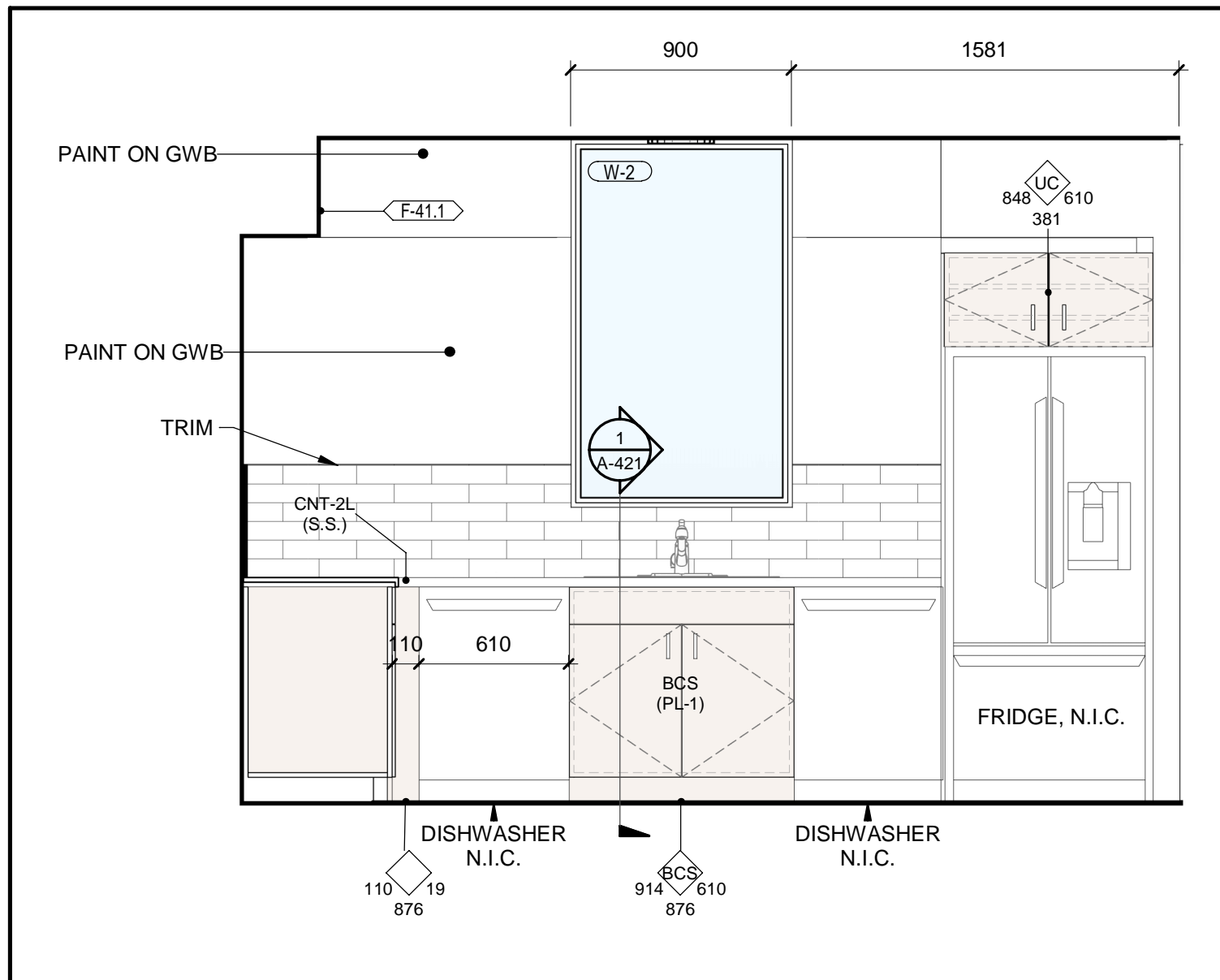
3 | INTERIOR ELEV. - KITCHEN ISLAND BACK

A-406 REF: A-406 Scale: 1 : 25



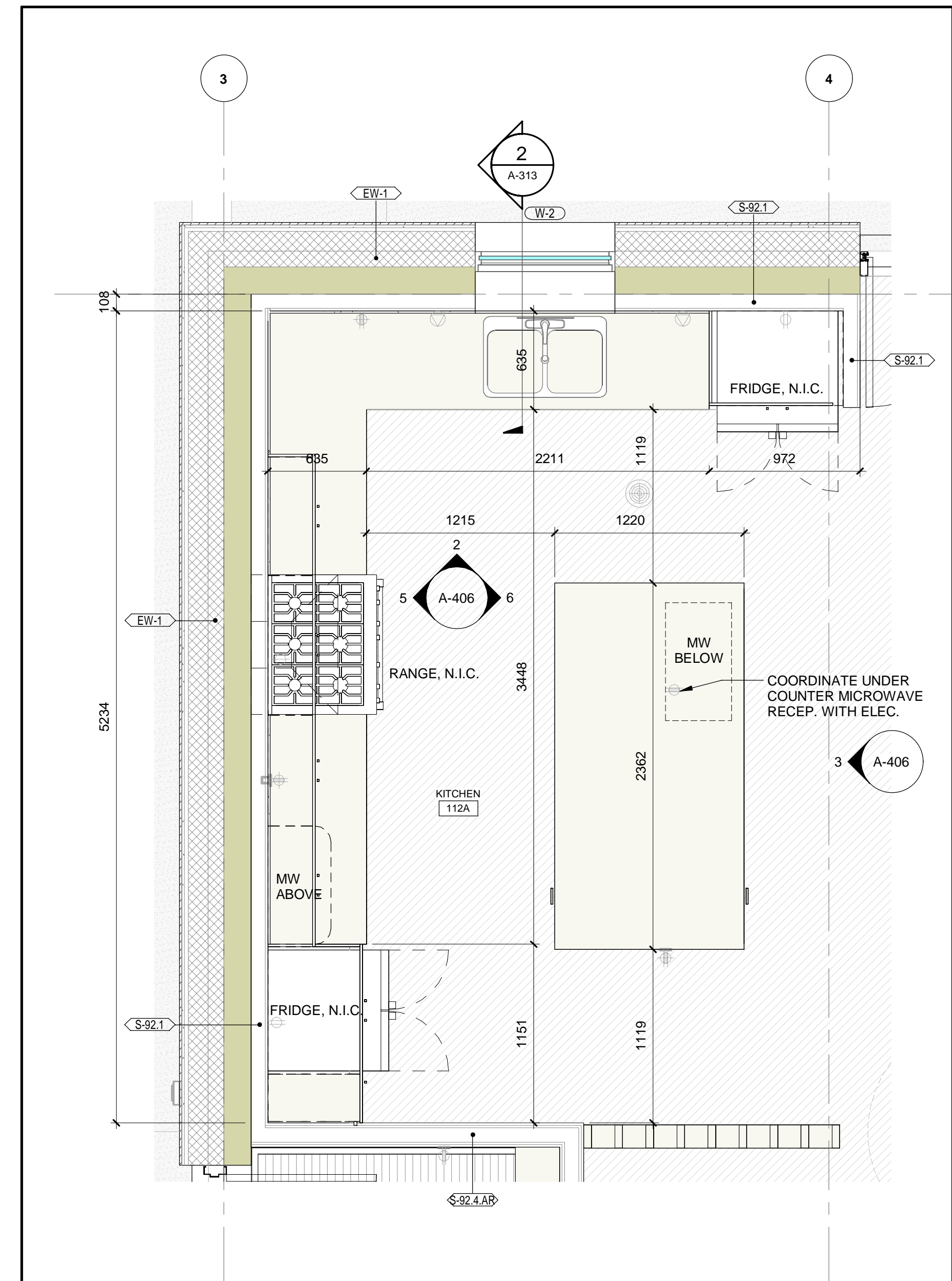
5 | INTERIOR ELEV. A - KITCHEN

A-406 REF: A-404 Scale: 1 : 25



2 | INTERIOR ELEV. B - KITCHEN

A-406 REF: A-406 Scale: 1 : 25



1 | ENLARGED PLAN - KITCHEN

A-406 REF: A-101 Scale: 1 : 25



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CONSTRUCTION DOCUMENTATION

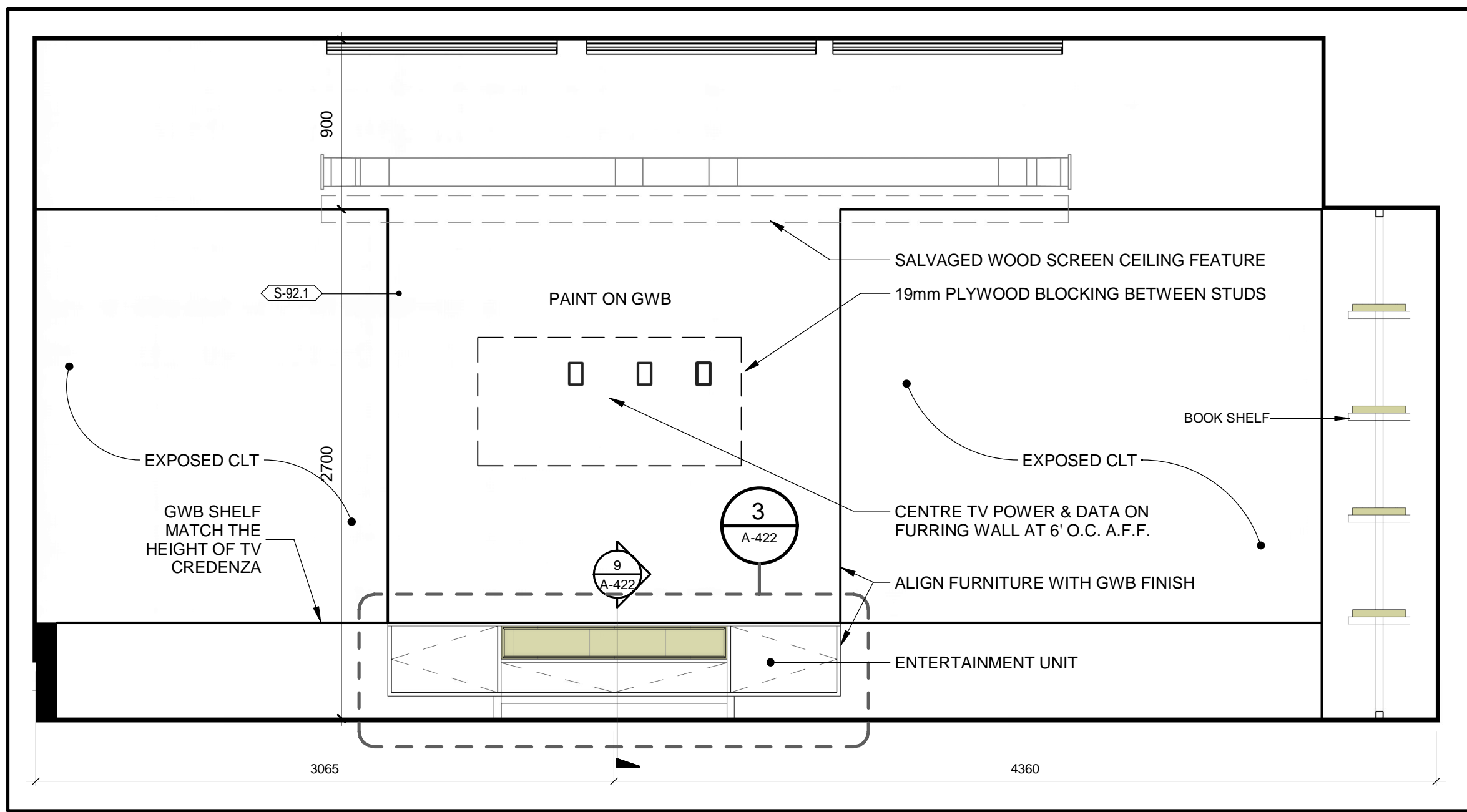
PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

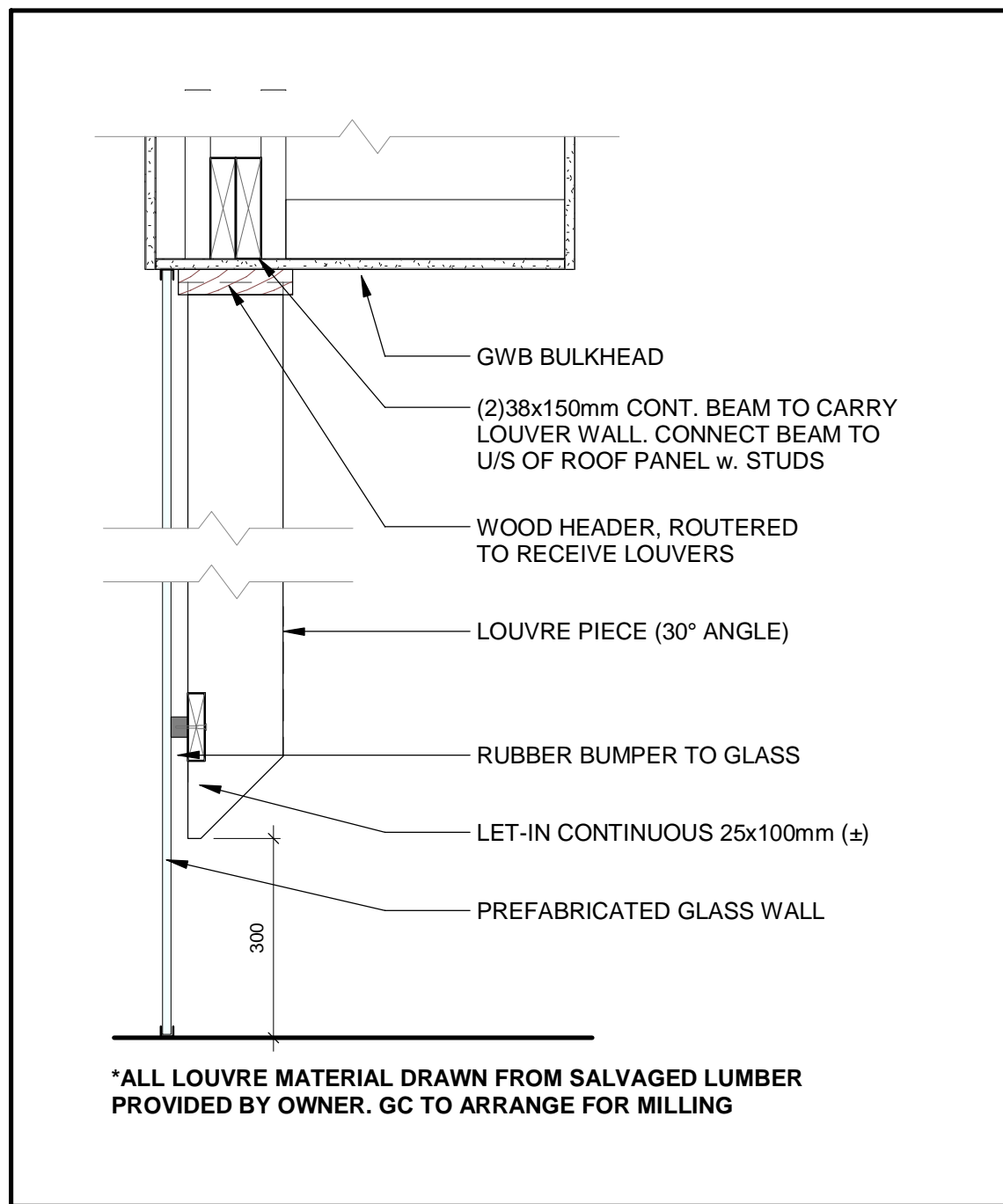
ENLARGED PLANS & ELEVATIONS - KITCHEN

A-406



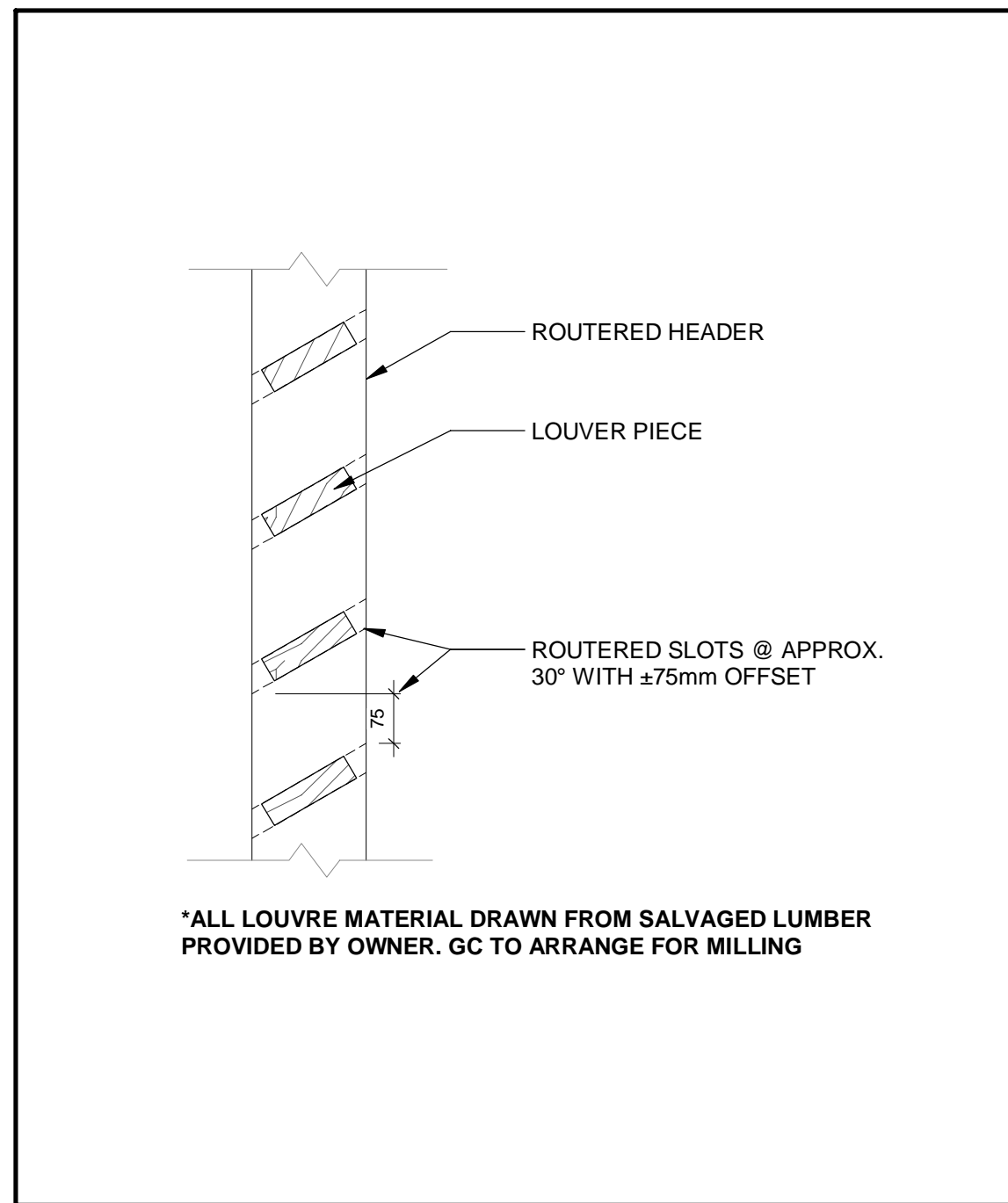
5 | INTERIOR ELEVATION - LOUNGE EAST WALL

A-407 REF: A-407 Scale: 1 : 25



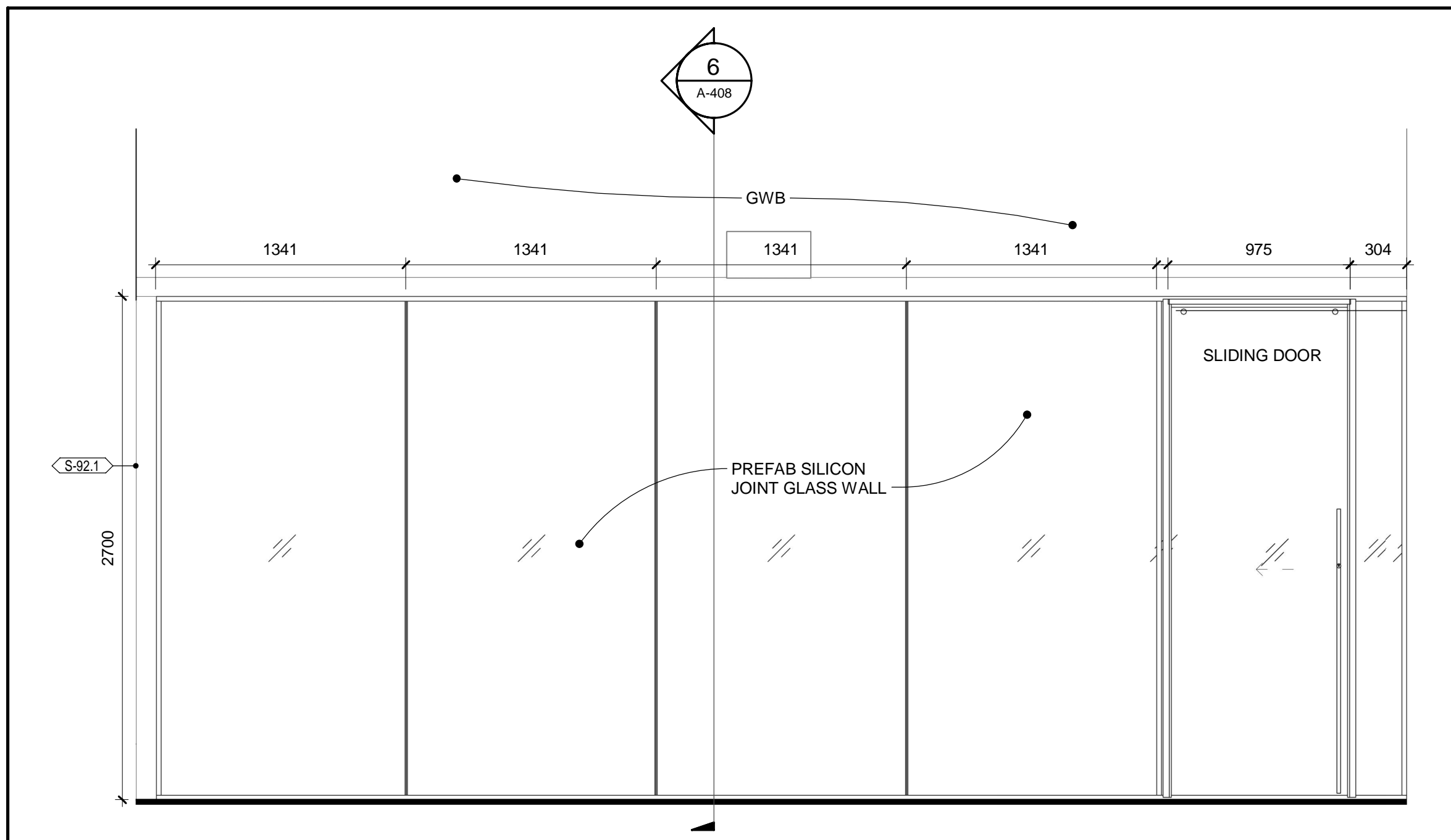
4 | SECTION DETAIL - LOUVER WALL

A-407 REF: A-407 Scale: 1 : 10



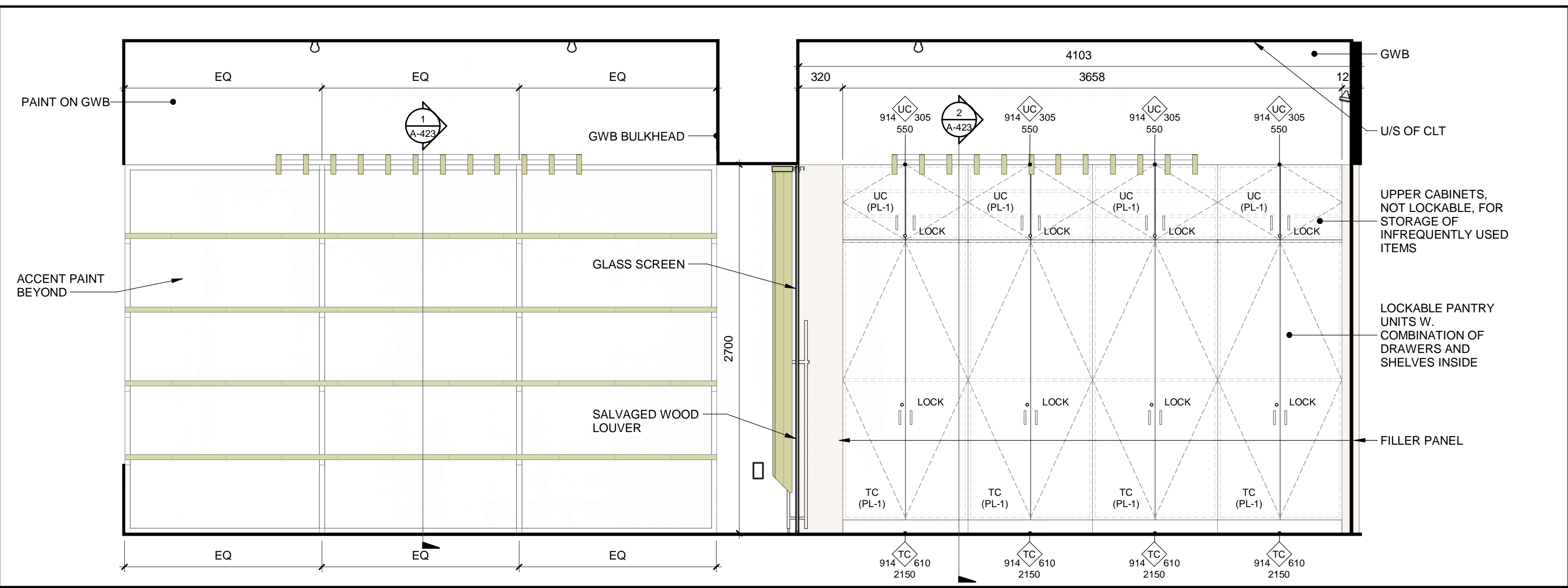
6 | PLAN DETAIL - LOUVER WALL

A-407 REF: Scale: 1 : 10



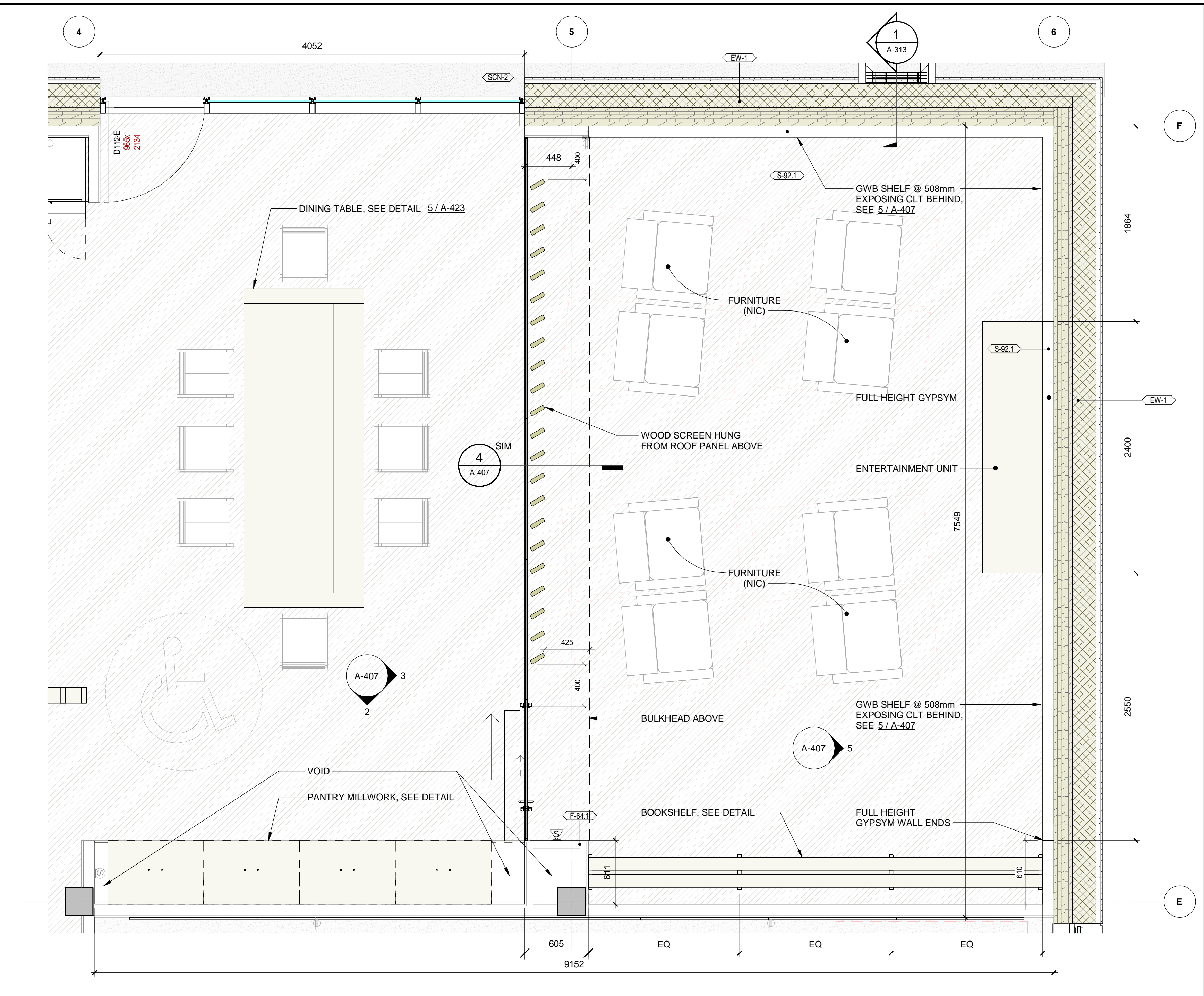
3 | SECTION DETAIL - TYP. ACOUSTIC PARTITION

A-407 REF: A-407 Scale: 1 : 25



2 | INTERIOR ELEVATION - PANTRY & BOOKSHELF

A-407 REF: A-406 Scale: 1 : 25



1 | ENLARGED PLAN - DINING ROOM & LOUNGE

A-407 REF: A-101 Scale: 1 : 25

ISSUE / REVISIONS

1 Issued for Building Permit Response	Apr.25.22
2 Issued for Tender	Aug.18.22



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CONSTRUCTION DOCUMENTATION

PROJECT No. 21-100
START DATE OCT.2021

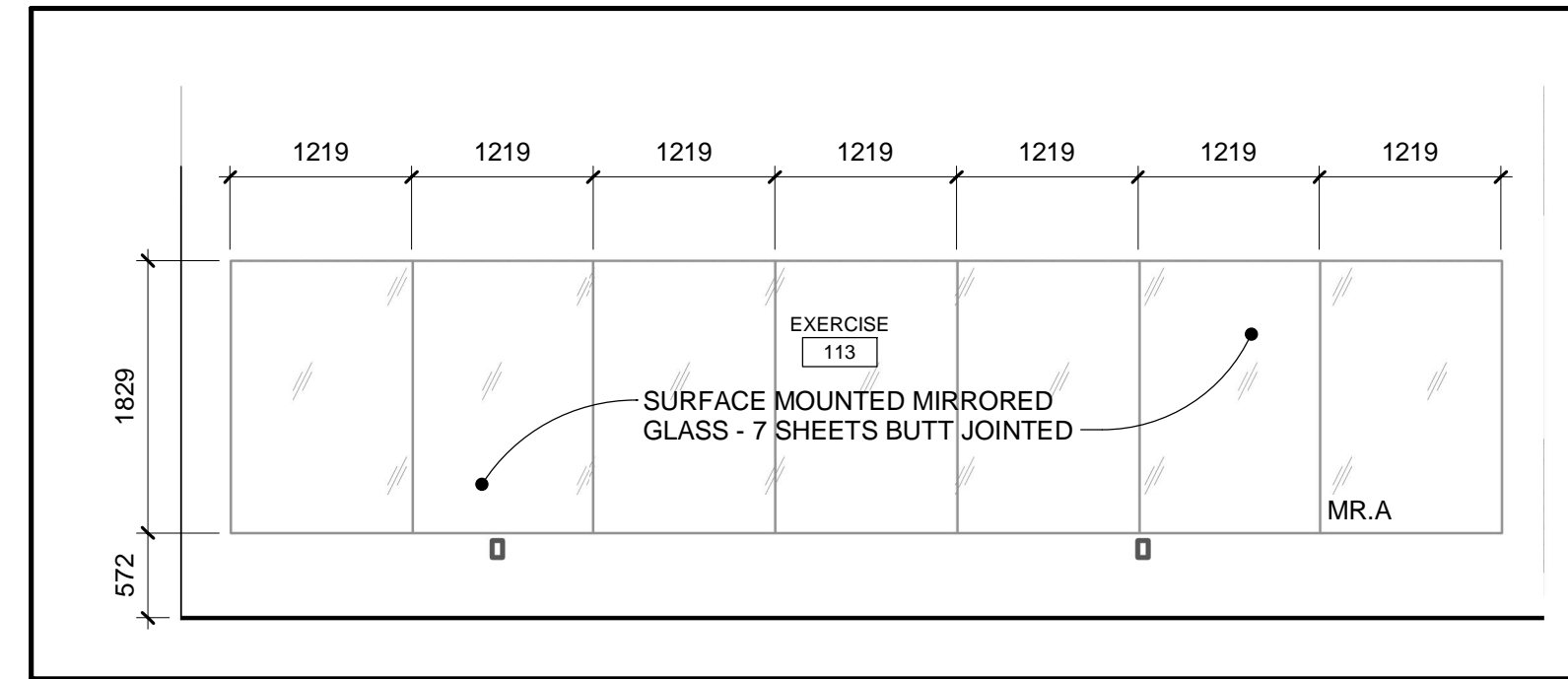
City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

ENLARGED PLANS &
ELEVATIONS - DINING
ROOM & LOUNGE

ISSUE / REVISIONS

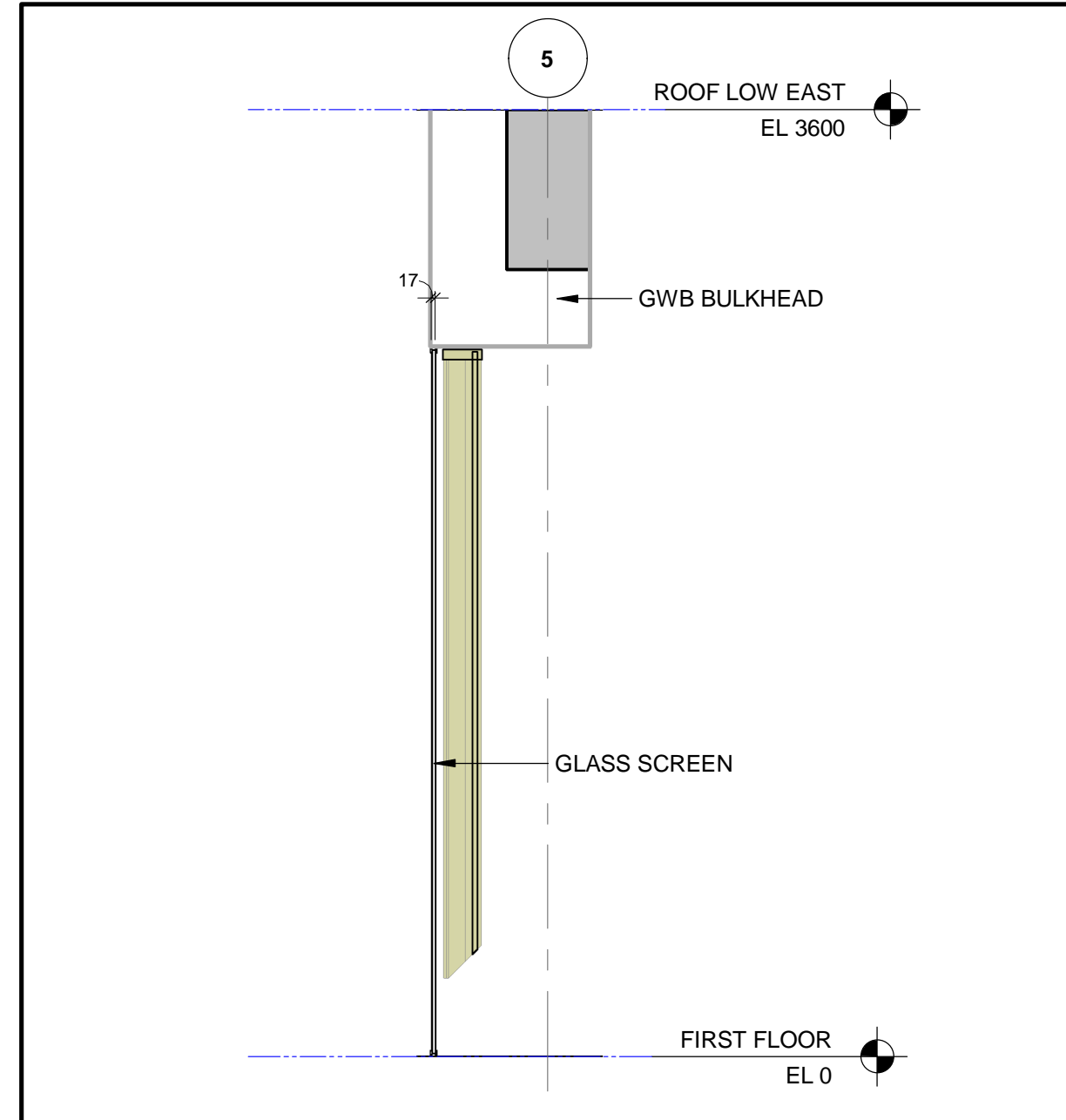
1	Issued for Building Permit Response	Apr.25.22
2	Issued for Tender	Aug.18.22



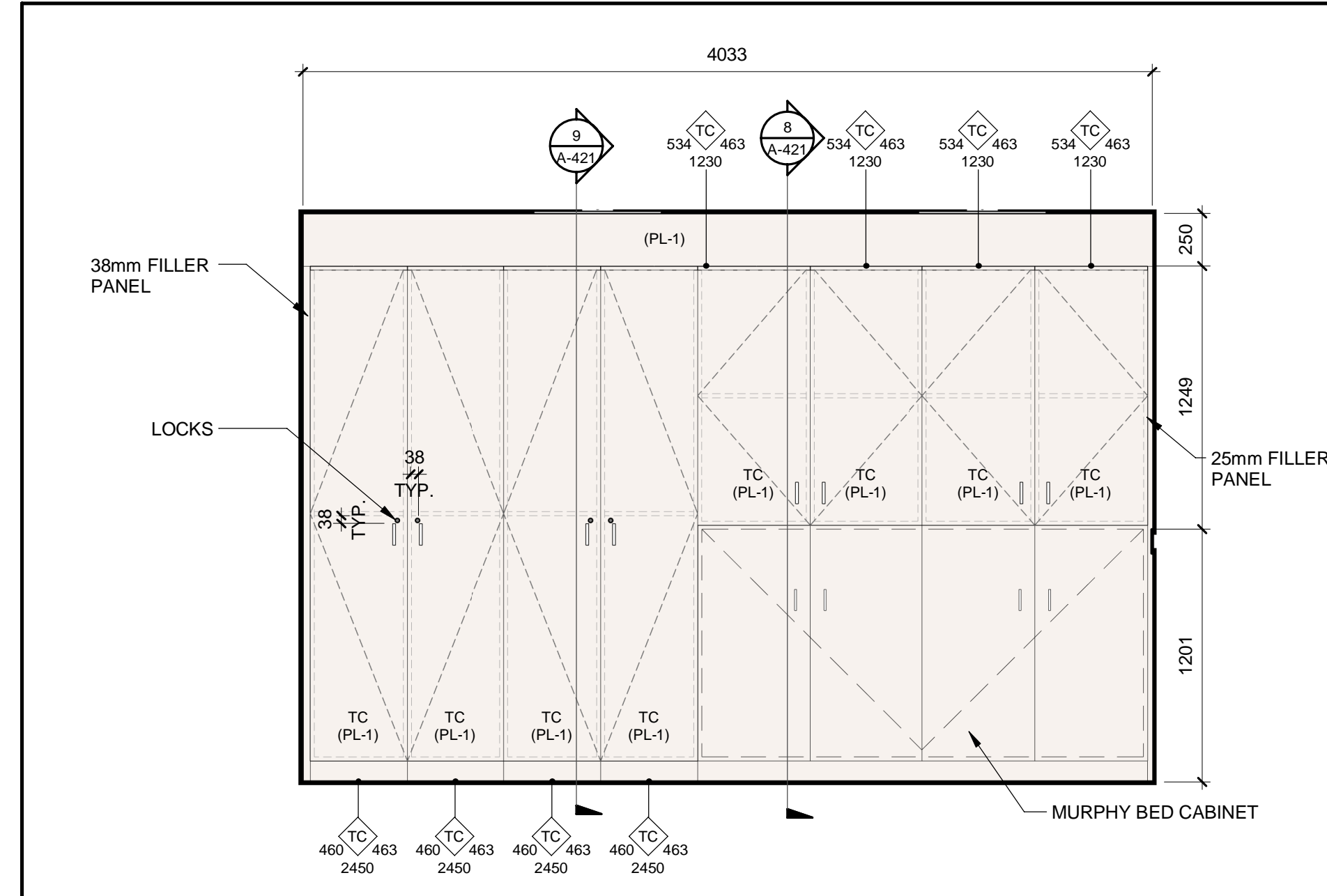
CLT PANEL COORDINATION NOTES:

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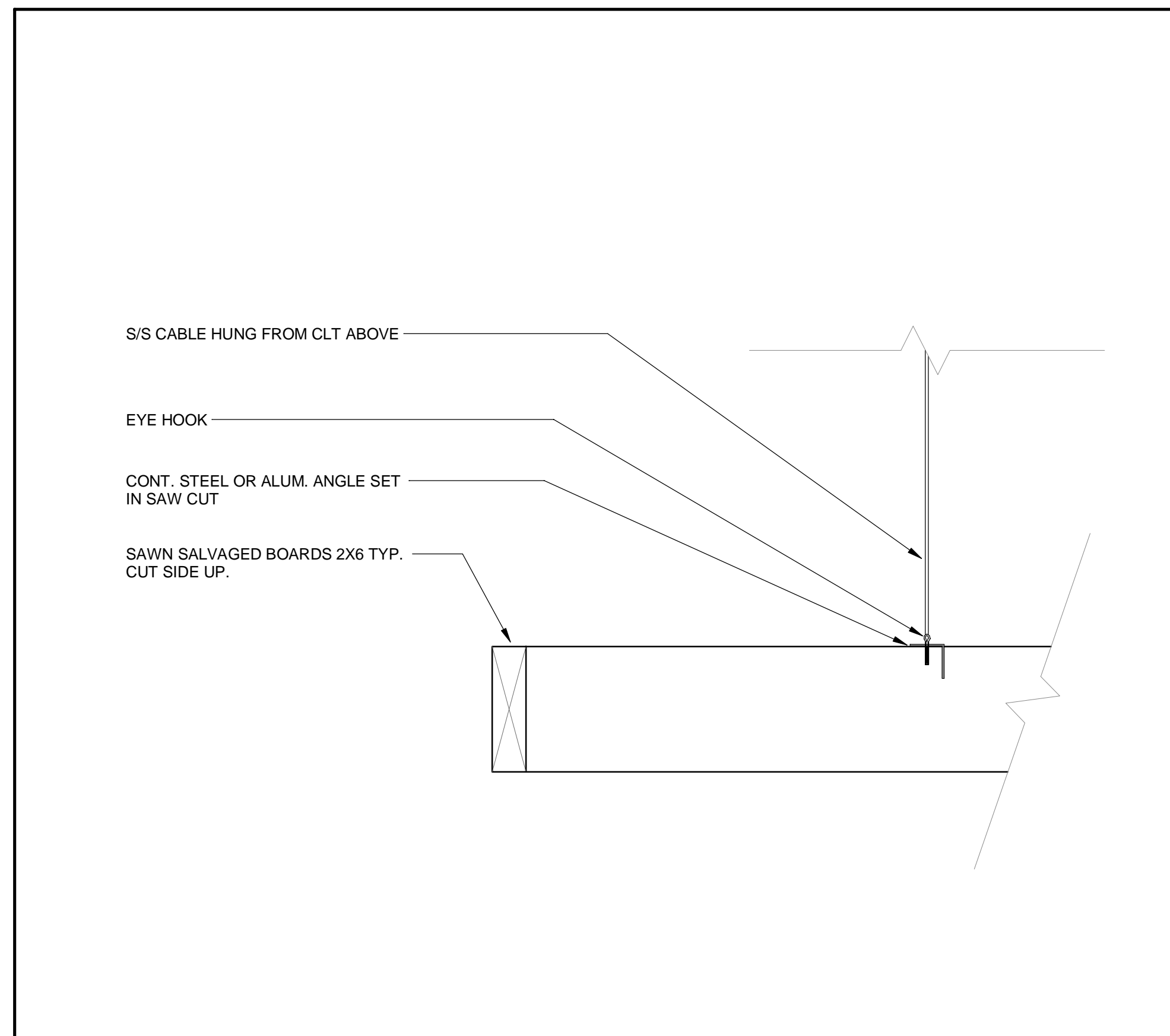
2 | INTERIOR ELEV. - EXERCISE RM. NORTH
A-408 REF: Scale: 1 : 50



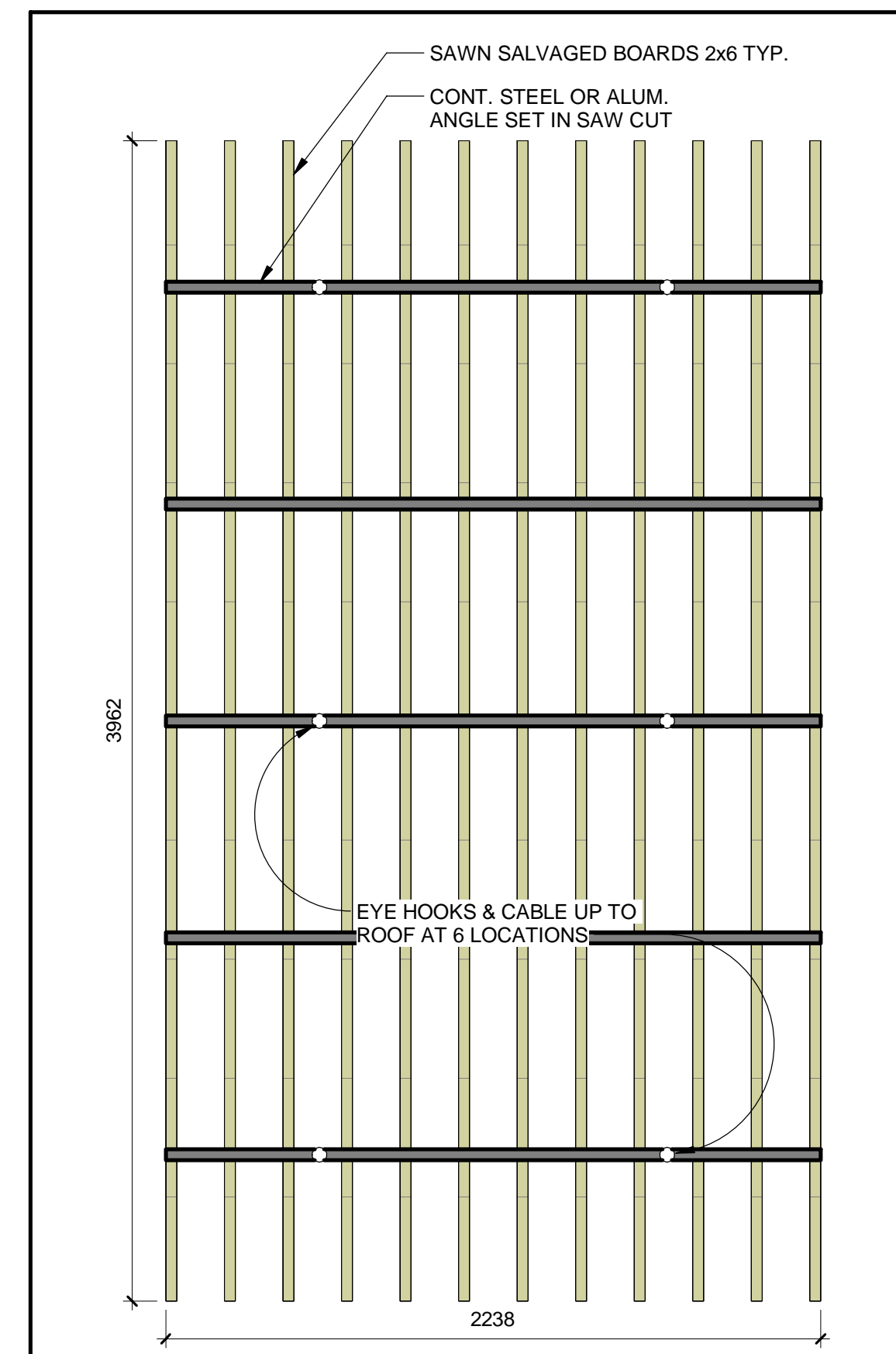
6 | DETAIL SECTION - LOUNGE & DINING ROOM DIVIDING WALL
A-408 REF: A-407 Scale: 1 : 25



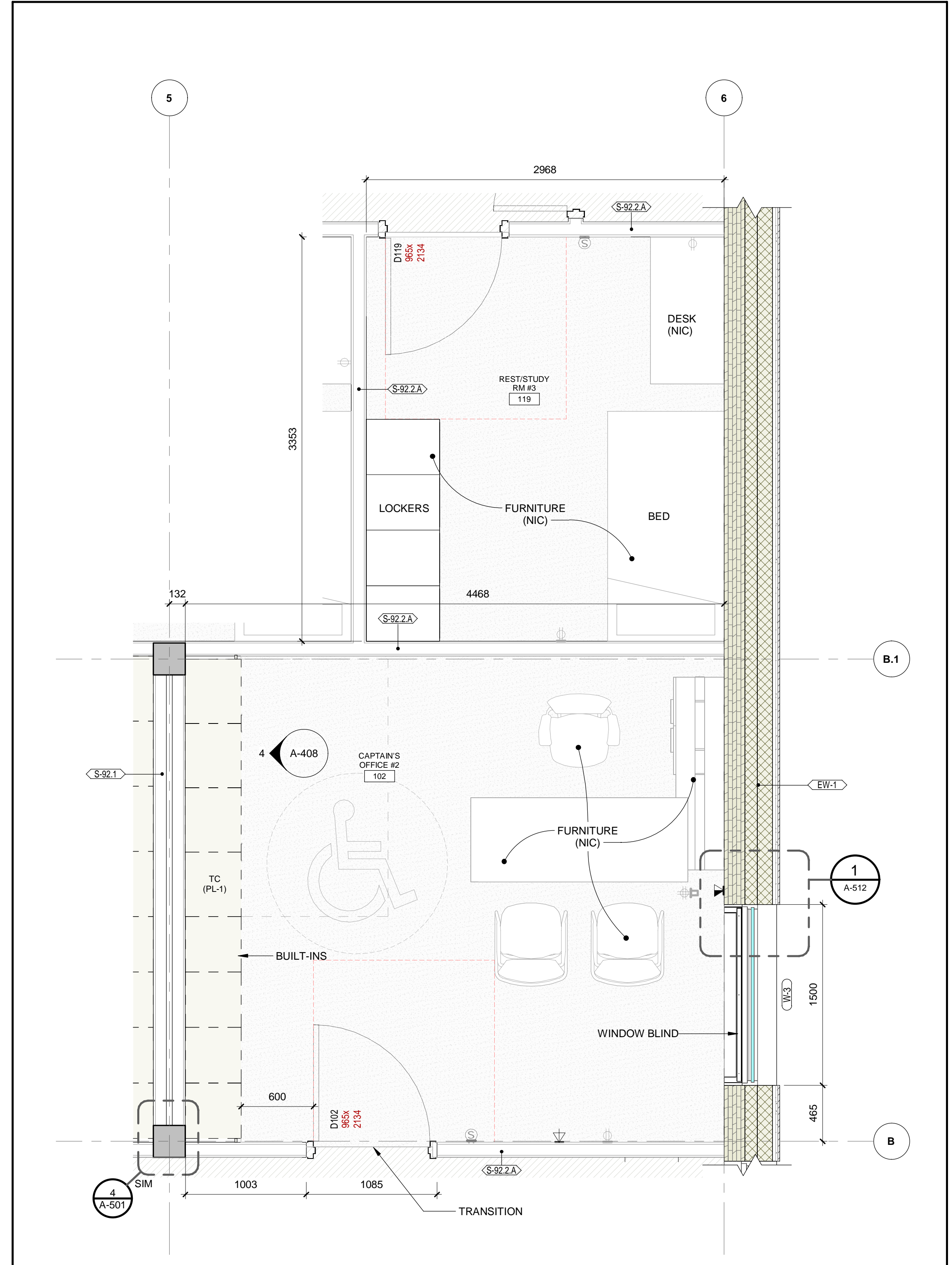
4 | INTERIOR ELEV. - CAPTAIN'S OFFICE MILLWORK
A-408 REF: A-408 Scale: 1 : 25



5 | SECTION DETAIL - SUSPENDED CEILING GRILL
A-408 REF: Scale: 1 : 5



3 | CUSTOM SUSPENDED CEILING GRILL
A-408 REF: A-151 Scale: 1 : 20



1 | ENLARGED PLAN - CAPTAIN'S OFFICE
A-408 REF: A-101 Scale: 1 : 25



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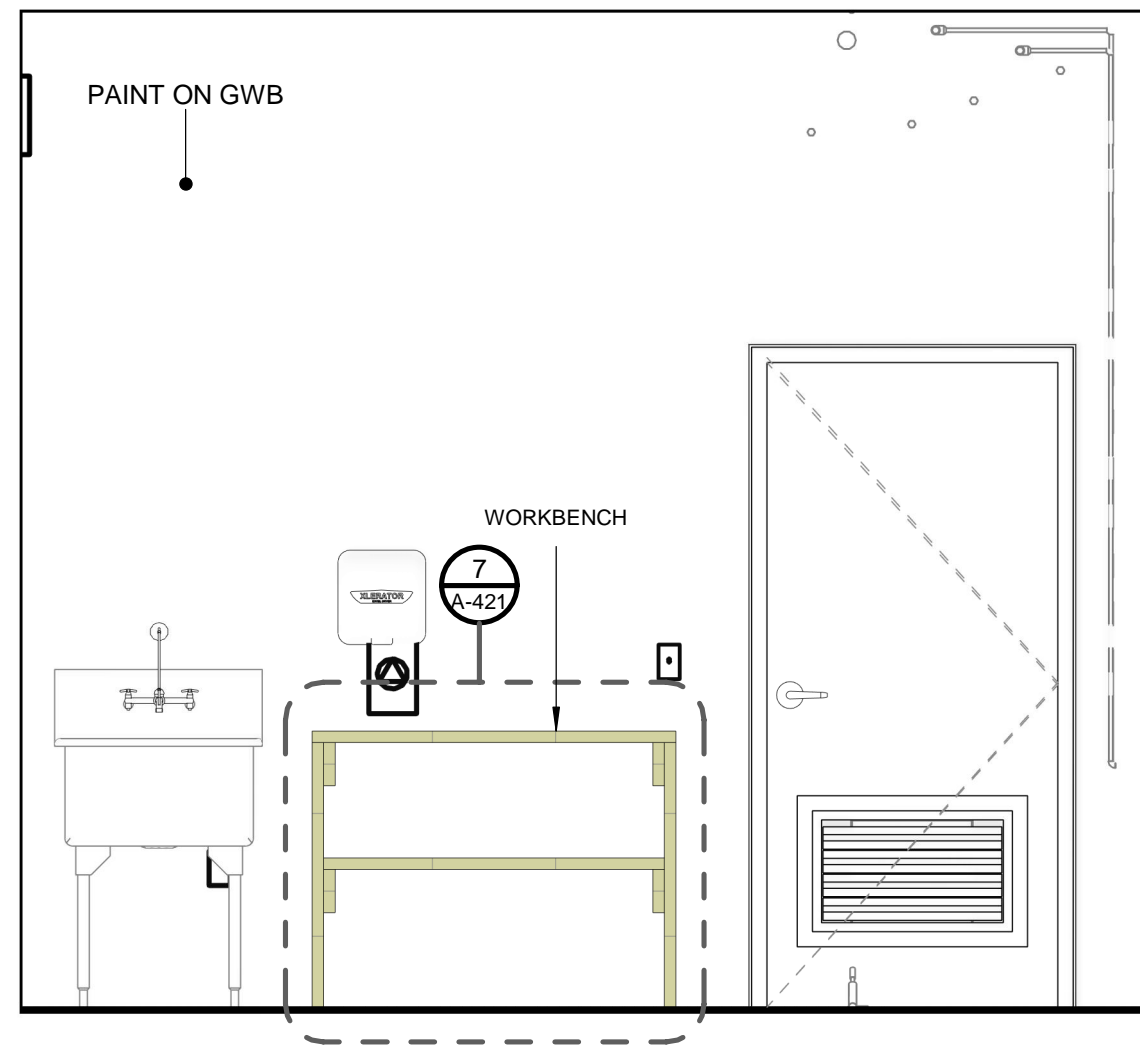
CONSTRUCTION DOCUMENTATION
PROJECT No. 21-100
START DATE OCT.2021

**City of Peterborough
FIRE STATION NO. 2**

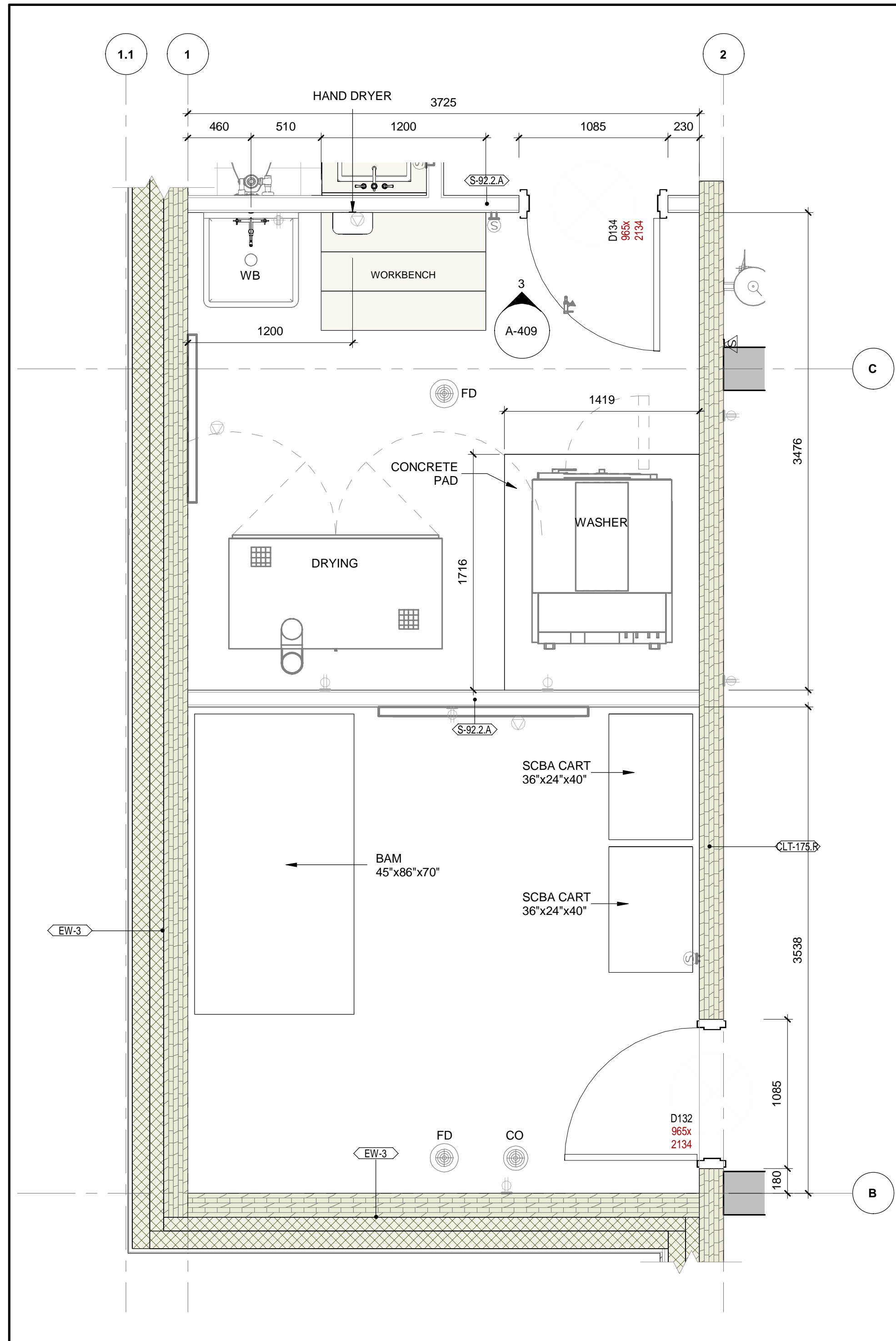
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

**ENLARGED PLANS,
ELEVATIONS, &
DETAILS**

A-408



3 INT. ELEV. - LAUNDRY & EXTRACT RM NORTH ELEV.
A-409 REF: A-409 Scale: 1 : 25



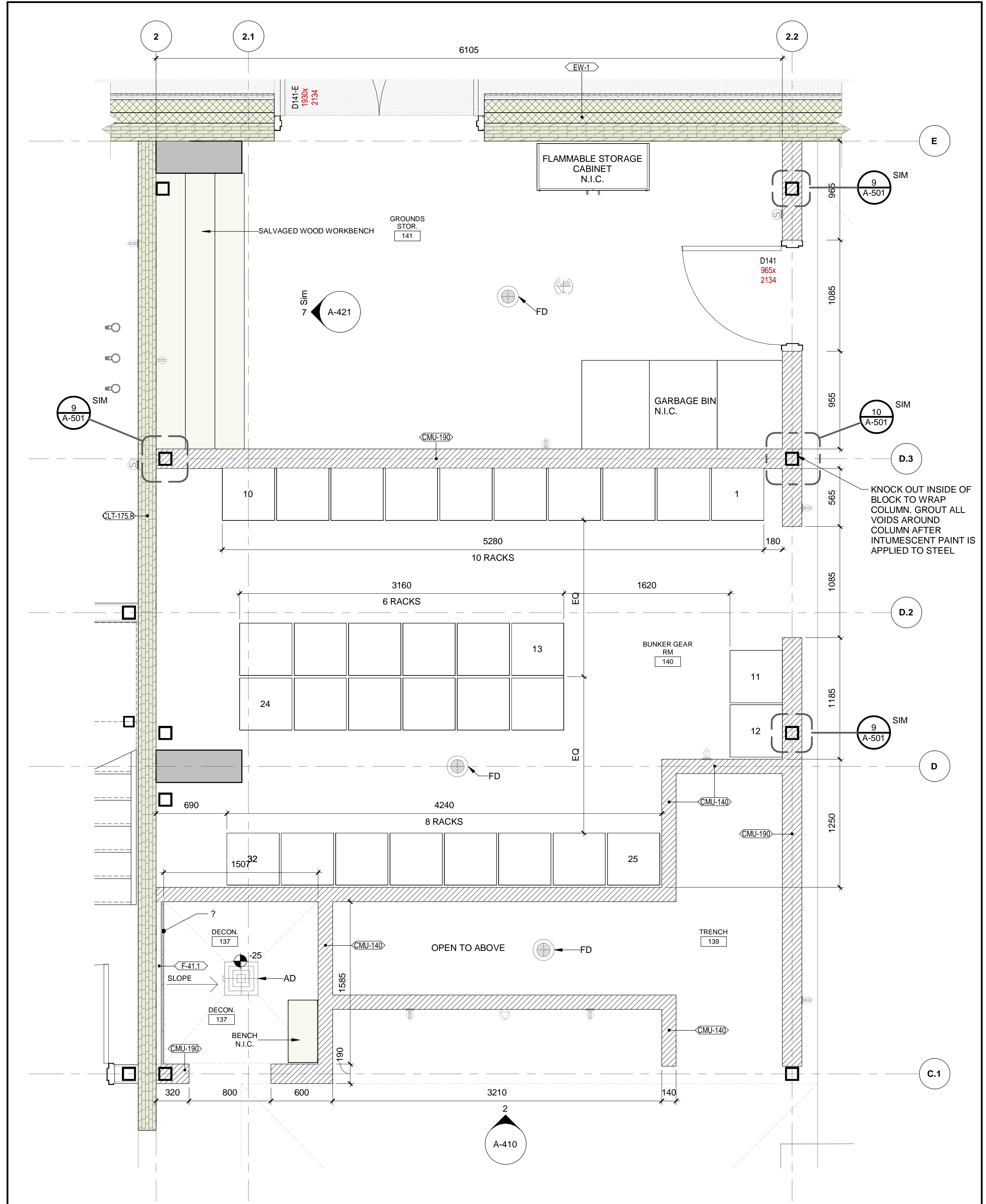
2 ENLARGED PLAN - LAUNDRY & SCBA ROOM
A-409 REF: A-101 Scale: 1 : 25

CLT PANEL COORDINATION NOTES:

- GC TO ENSURE CLT & MECH. TRADES COORDINATE PENETRATIONS AND FINAL DUCT SIZING/RUNS THROUGH CLT
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ISSUE / REVISIONS

1 Issued for Building Permit Response	Apr.25.22
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1 ENLARGED PLAN - GROUND STORAGE & BUNKER GEAR ROOM
A-409 REF: A-101 Scale: 1 : 25



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CONSTRUCTION DOCUMENTATION
PROJECT No. 21-100
START DATE OCT.2021

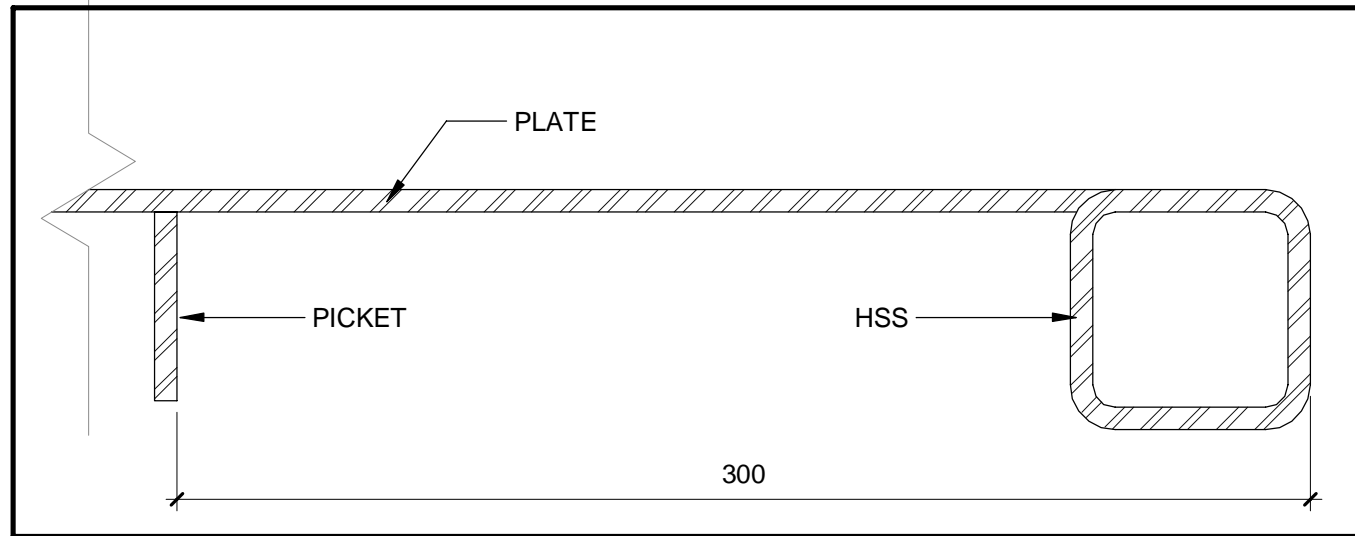
City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

ENLARGED PLANS & ELEVATIONS - GROUND, BUNKER GEAR, LAUNDRY AND SCBA ROOM

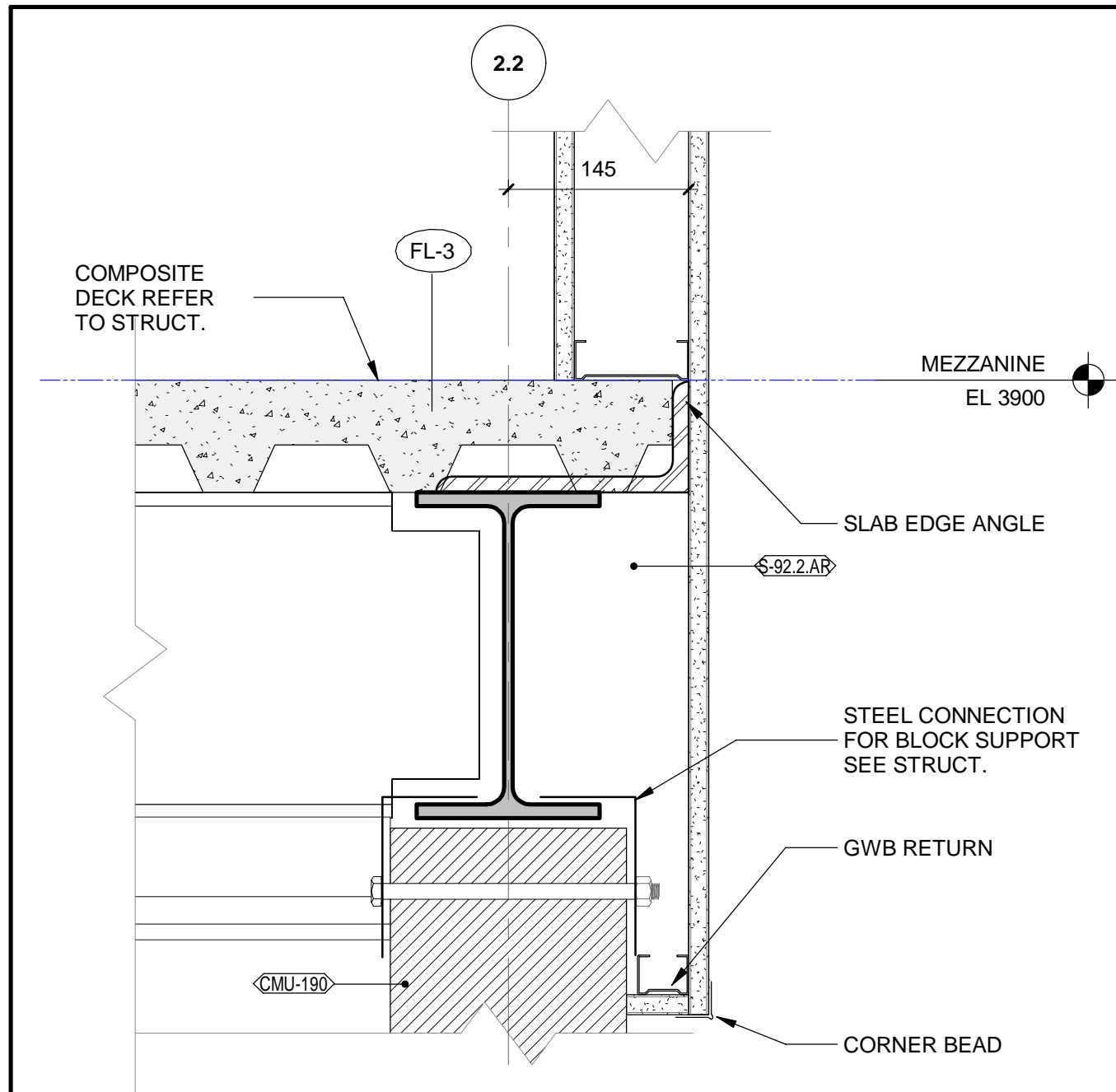
CLT PANEL COORDINATION NOTES:

- 1. GC TO ENSURE CLT & MECH. TRADES COORDINATE PENETRATIONS AND FINAL DUCT SIZING/RUNS THROUGH CLT
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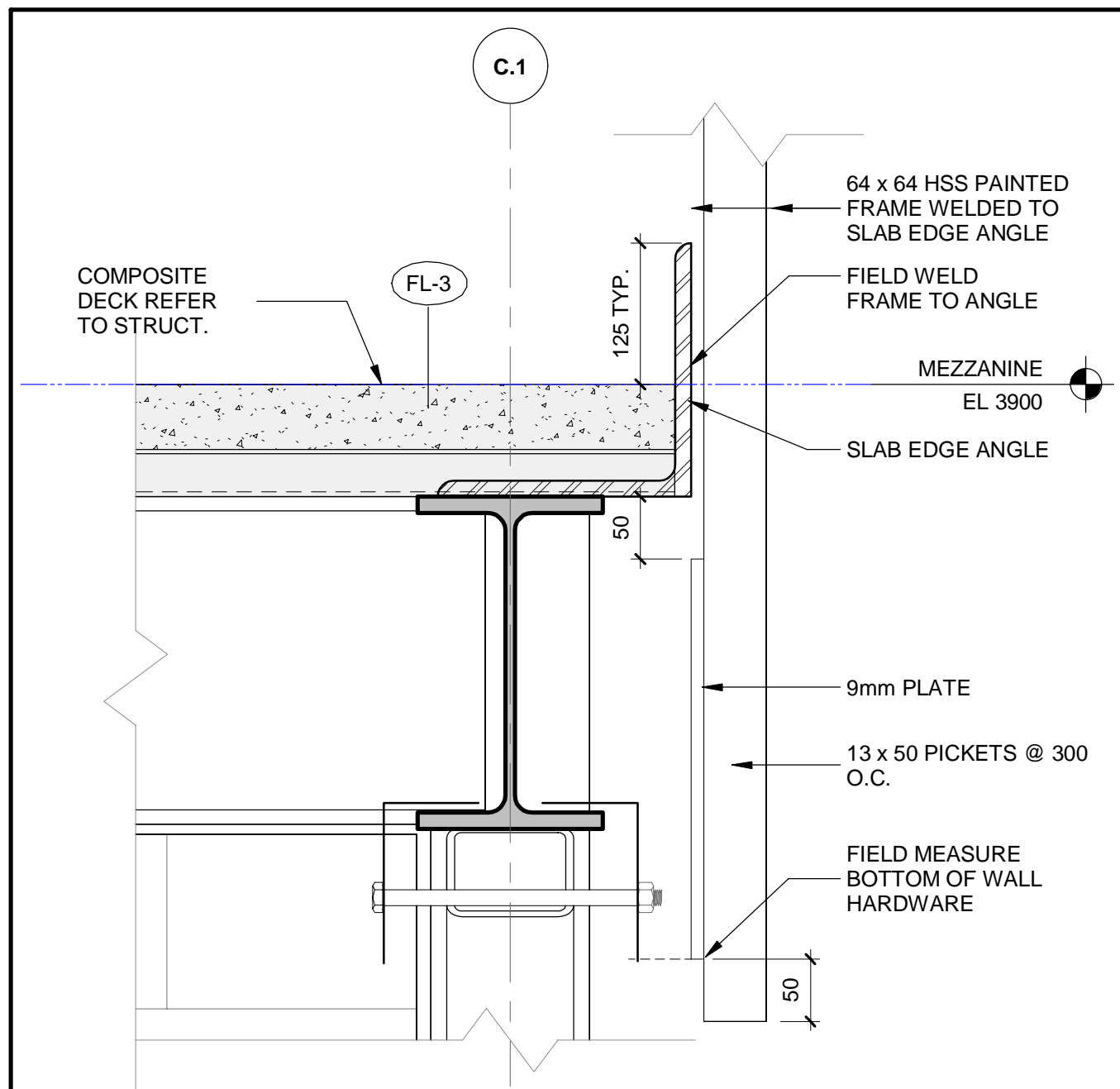
7 | PLAN DETAIL - MEZZ GUARD

A-410 REF: Scale: 1 : 2



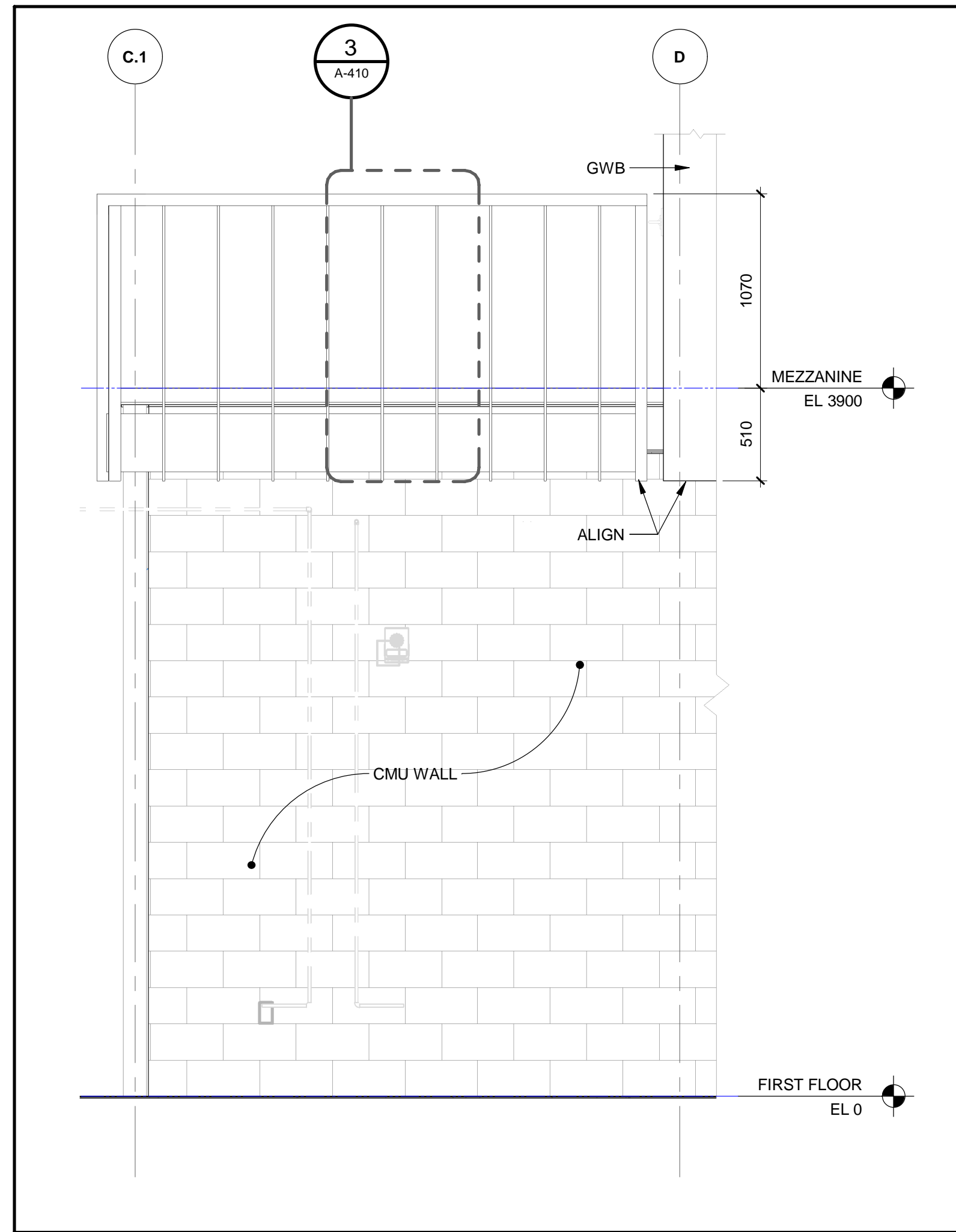
6 | MEZZ GUARD - ELEVATION DETAIL B

A-410 REF: A-410 Scale: 1 : 5



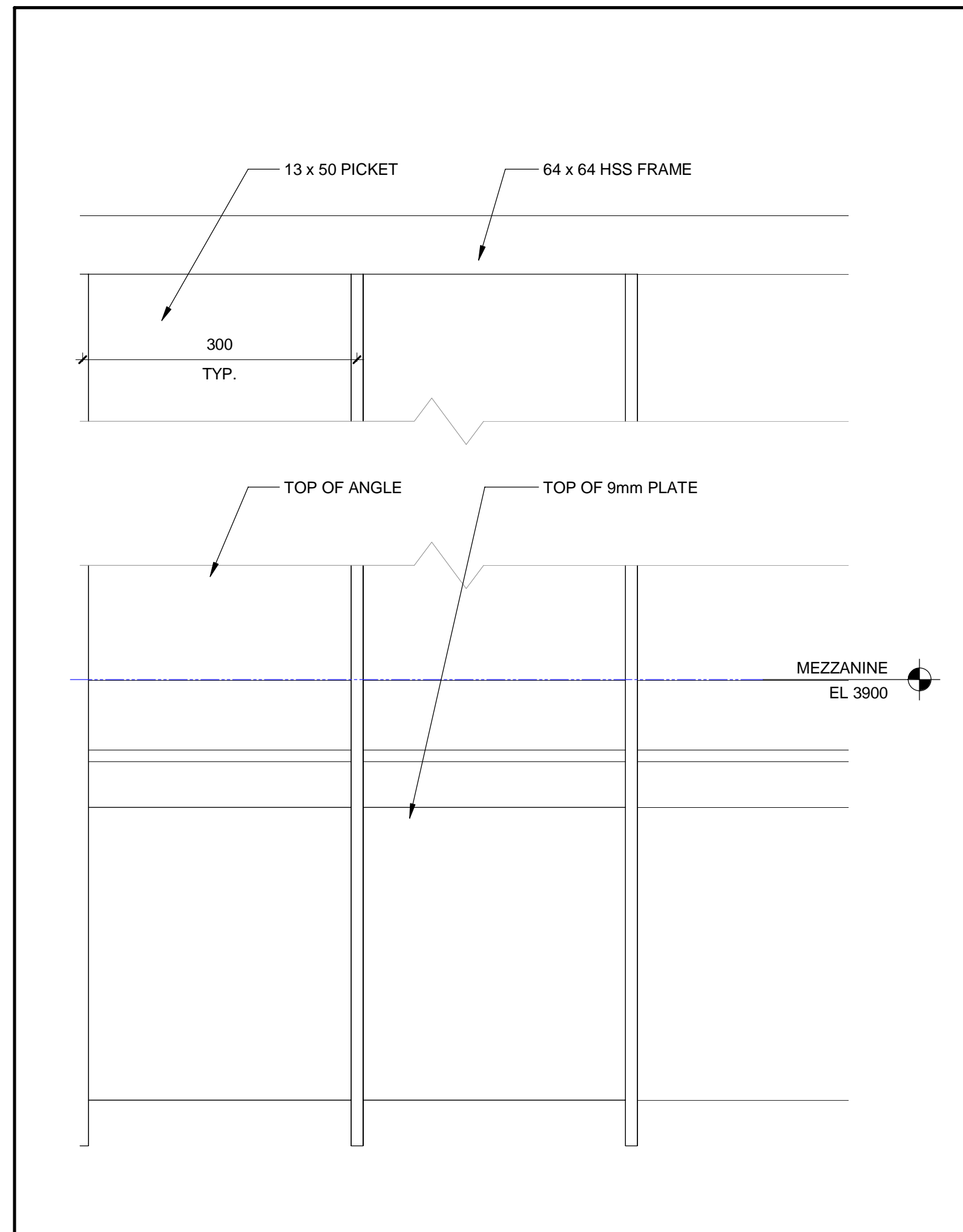
5 | MEZZ GUARD - SECTION DETAIL A

A-410 REF: A-410 Scale: 1 : 5



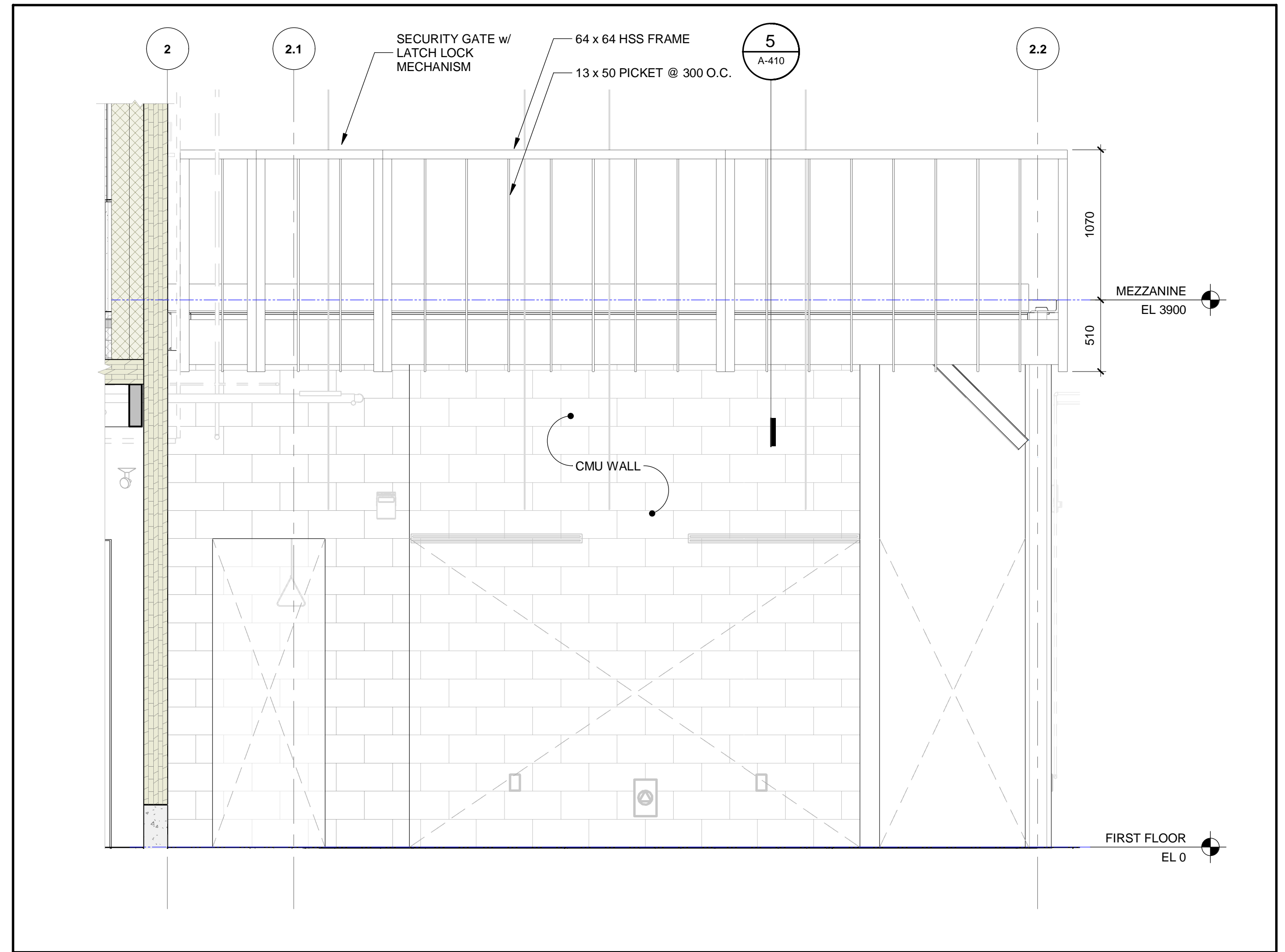
4 | INTERIOR ELEVATION - TRENCH MEZZ FLOOR (EAST)

A-410 REF: A-410 Scale: 1 : 25



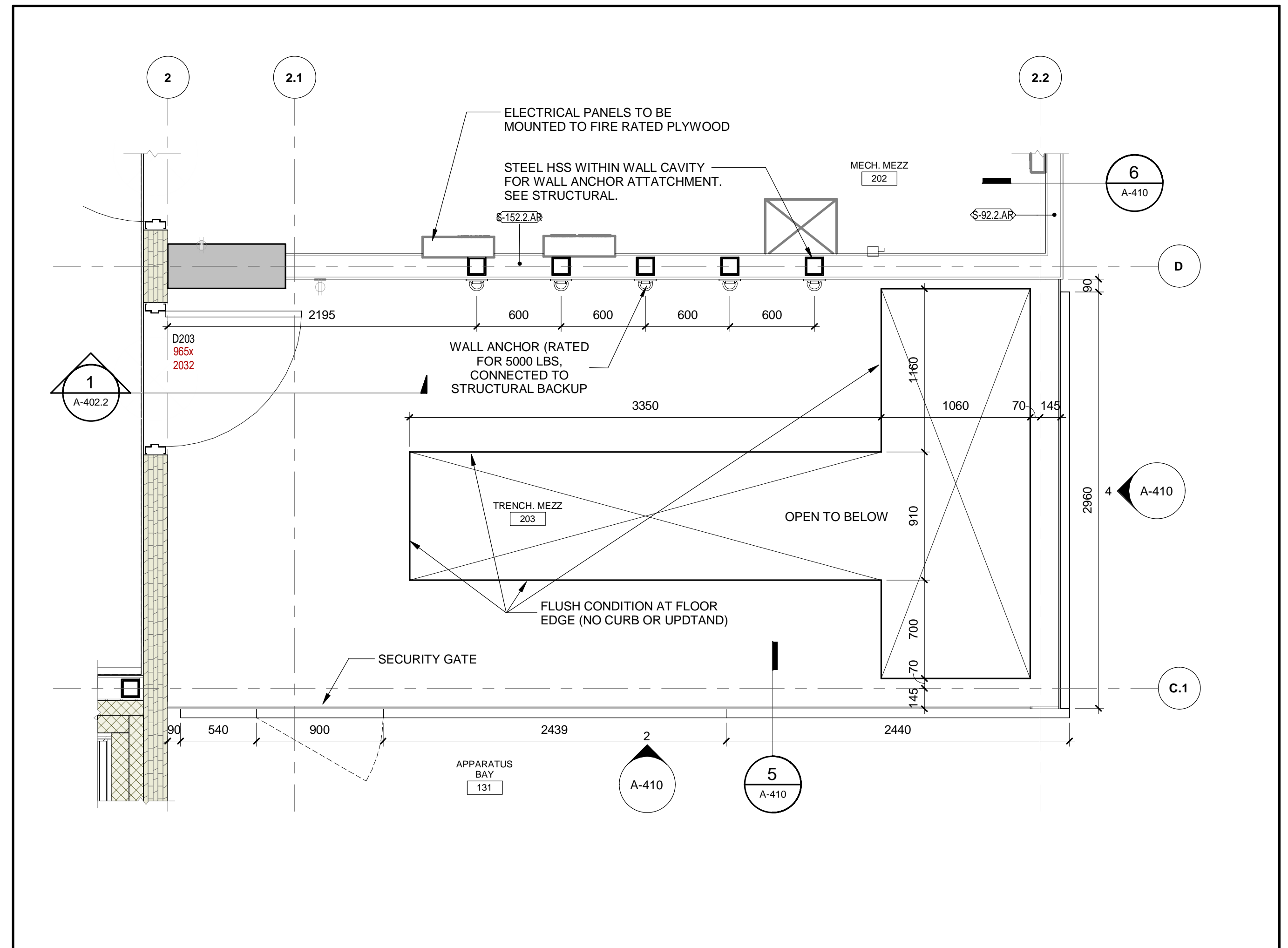
3 | MEZZ GUARD - ELEVATION DETAIL

A-410 REF: A-410 Scale: 1 : 5



2 | INTERIOR ELEVATION - TRENCH MEZZ FLOOR (SOUTH)

A-410 REF: A-401 Scale: 1 : 25



1 | ENLARGED PLAN - TRENCH MEZZ FLOOR

A-410 REF: A-102 Scale: 1 : 25

ISSUE / REVISIONS

1	Issued for Building Permit	Mar.21.22
2	Issued for Building Permit Response	Apr.25.22
3	Issued for Tender	Aug.18.22



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CONSTRUCTION DOCUMENTATION

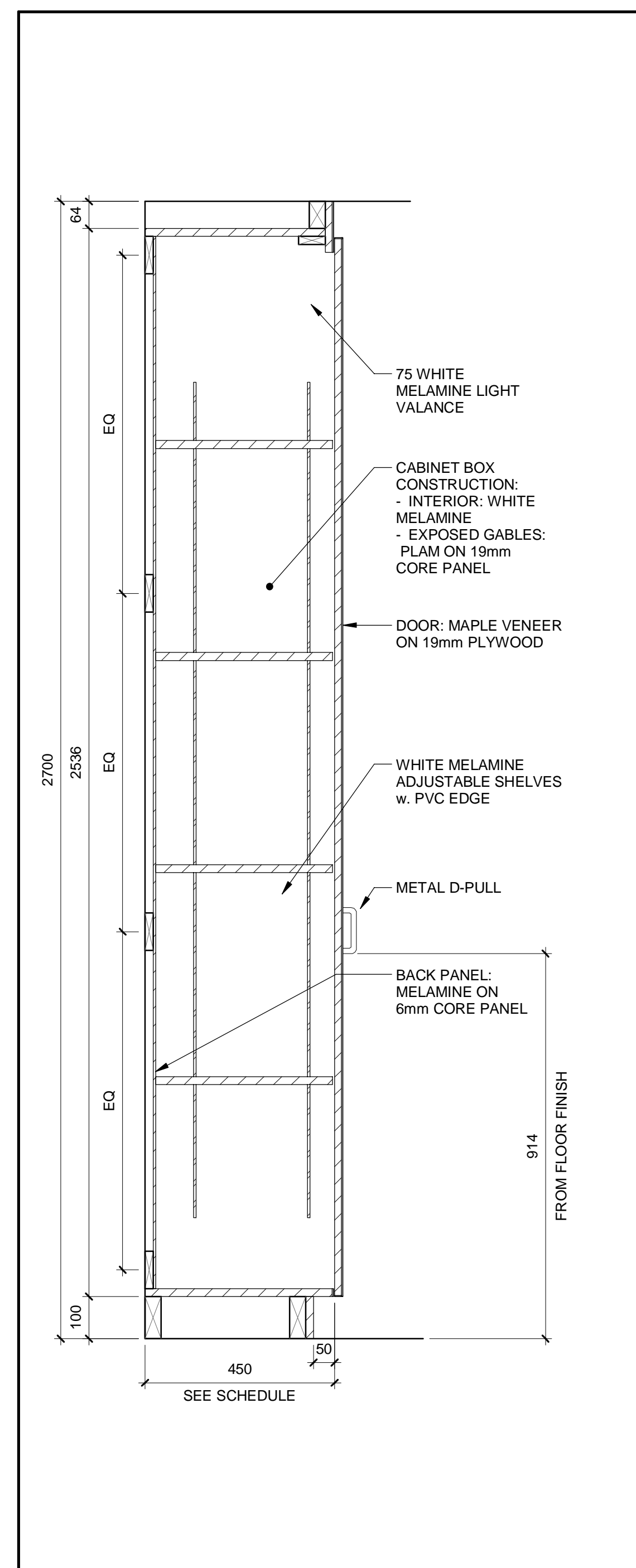
PROJECT No. 21-100
START DATE OCT.2021

**City of Peterborough
FIRE STATION NO. 2**

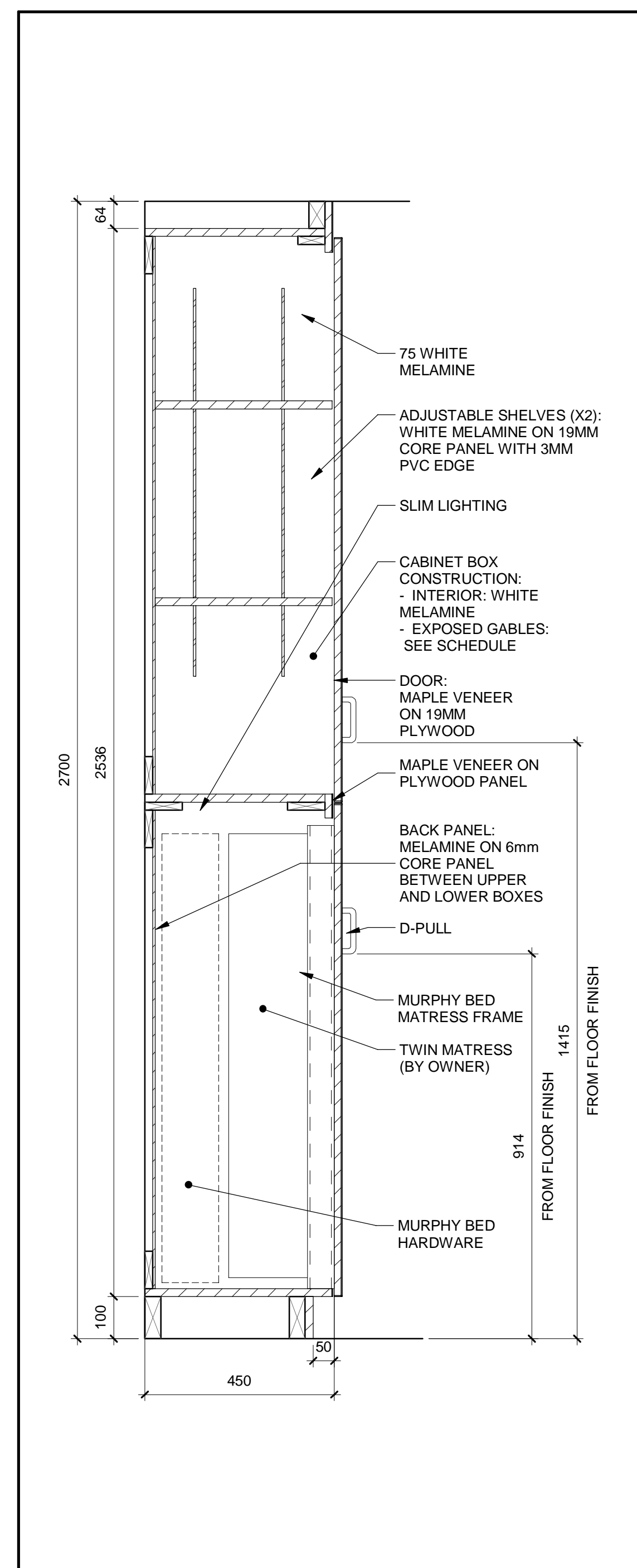
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

**ENLARGED PLAN &
ELEVATIONS -
MEZZANINE TRENCH**

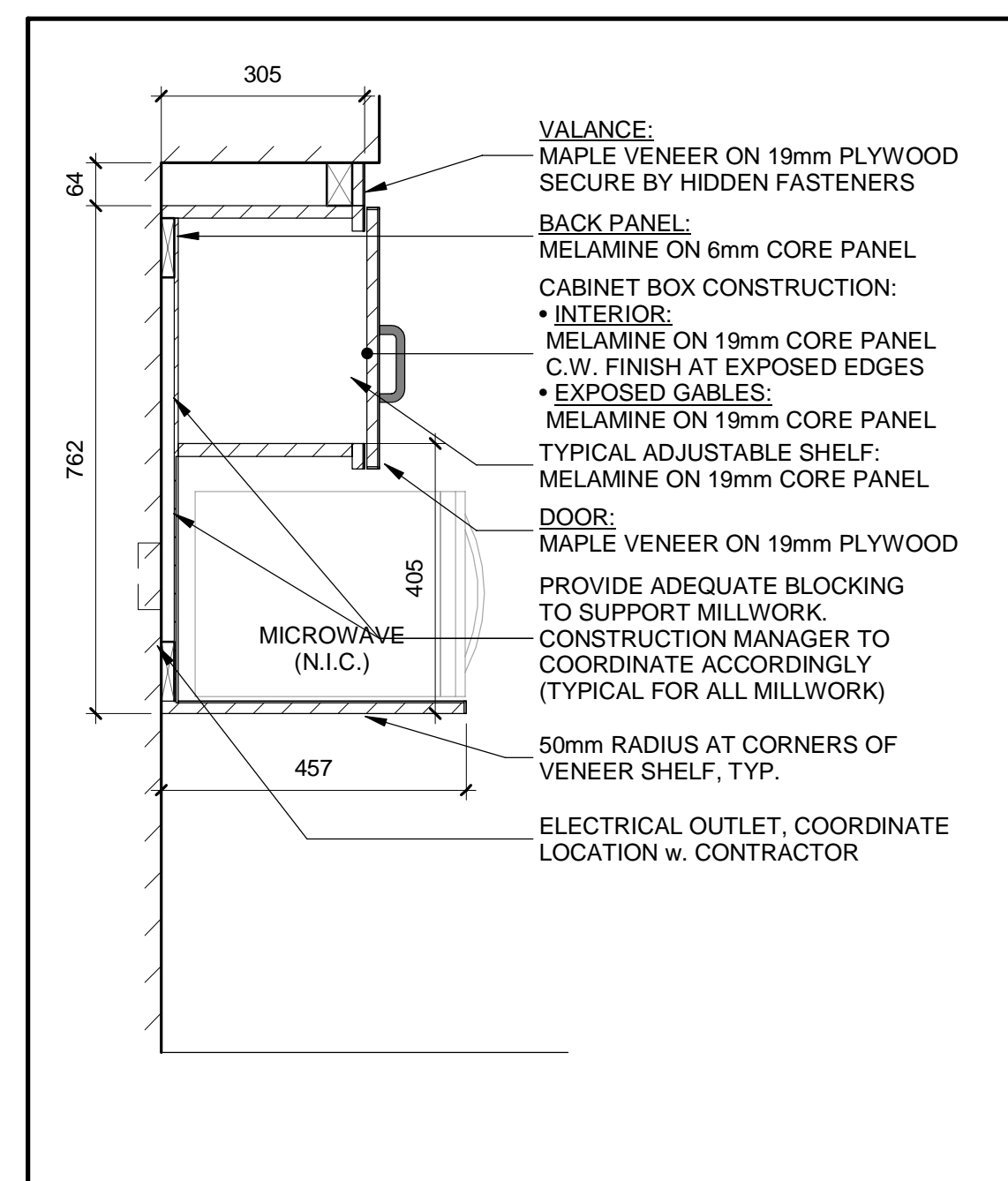
A-410



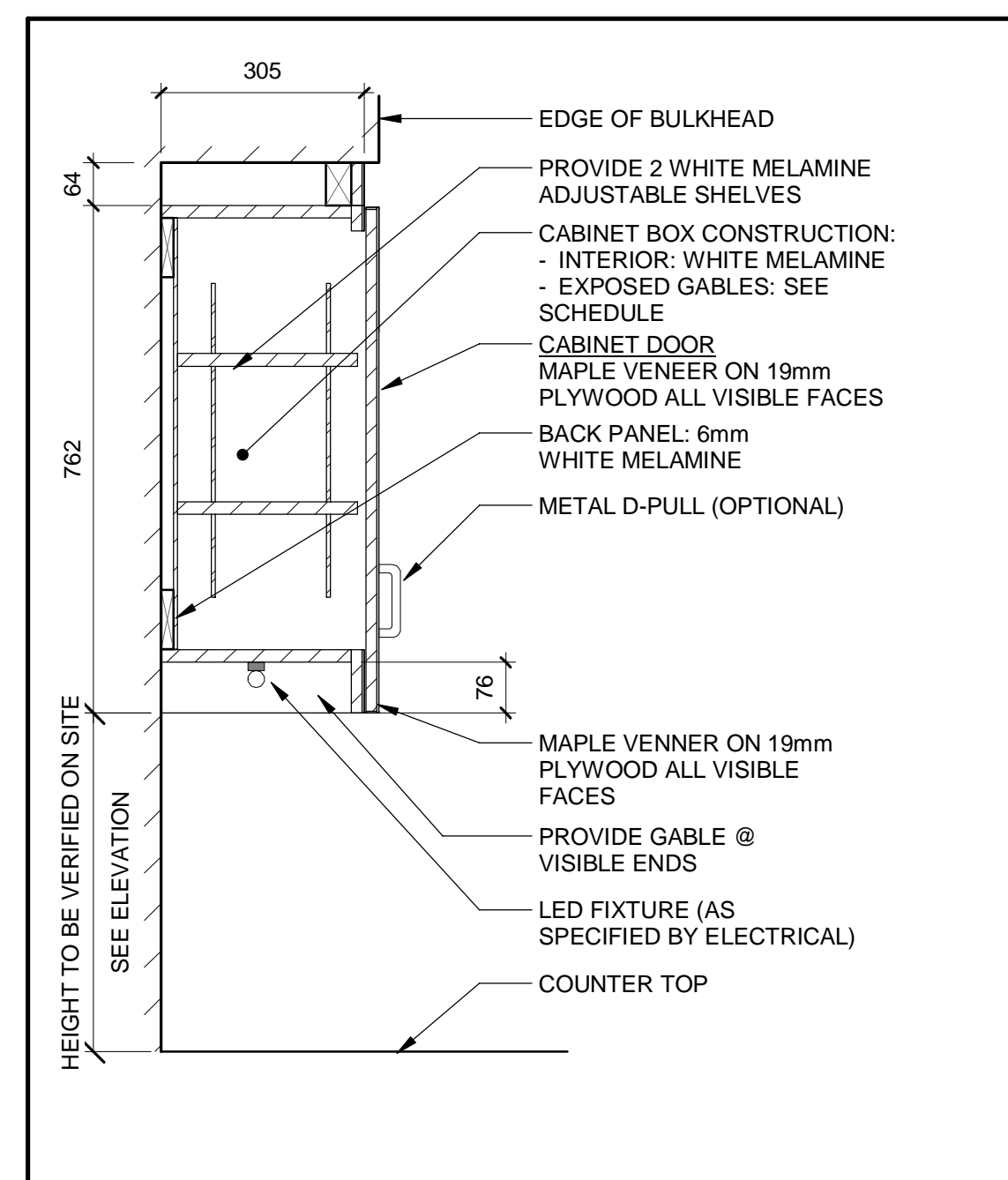
9 | DETAIL - CAPTAIN'S OFFICE MILLWORK
A-421 REF: A-408 Scale: 1 : 10



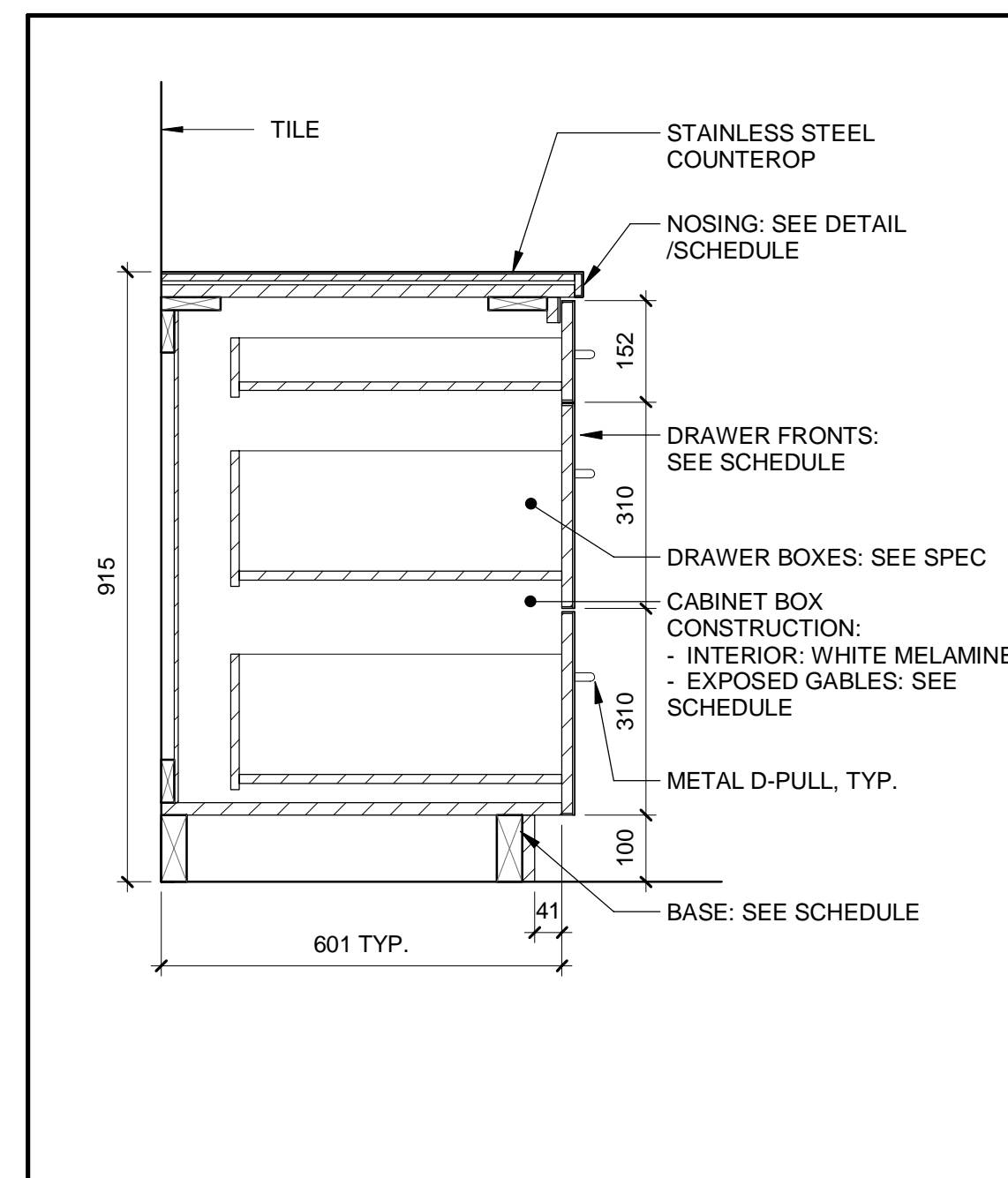
8 | DETAIL - CAPTAIN'S OFFICE MILLWORK
A-421 REF: A-408 Scale: 1 : 10



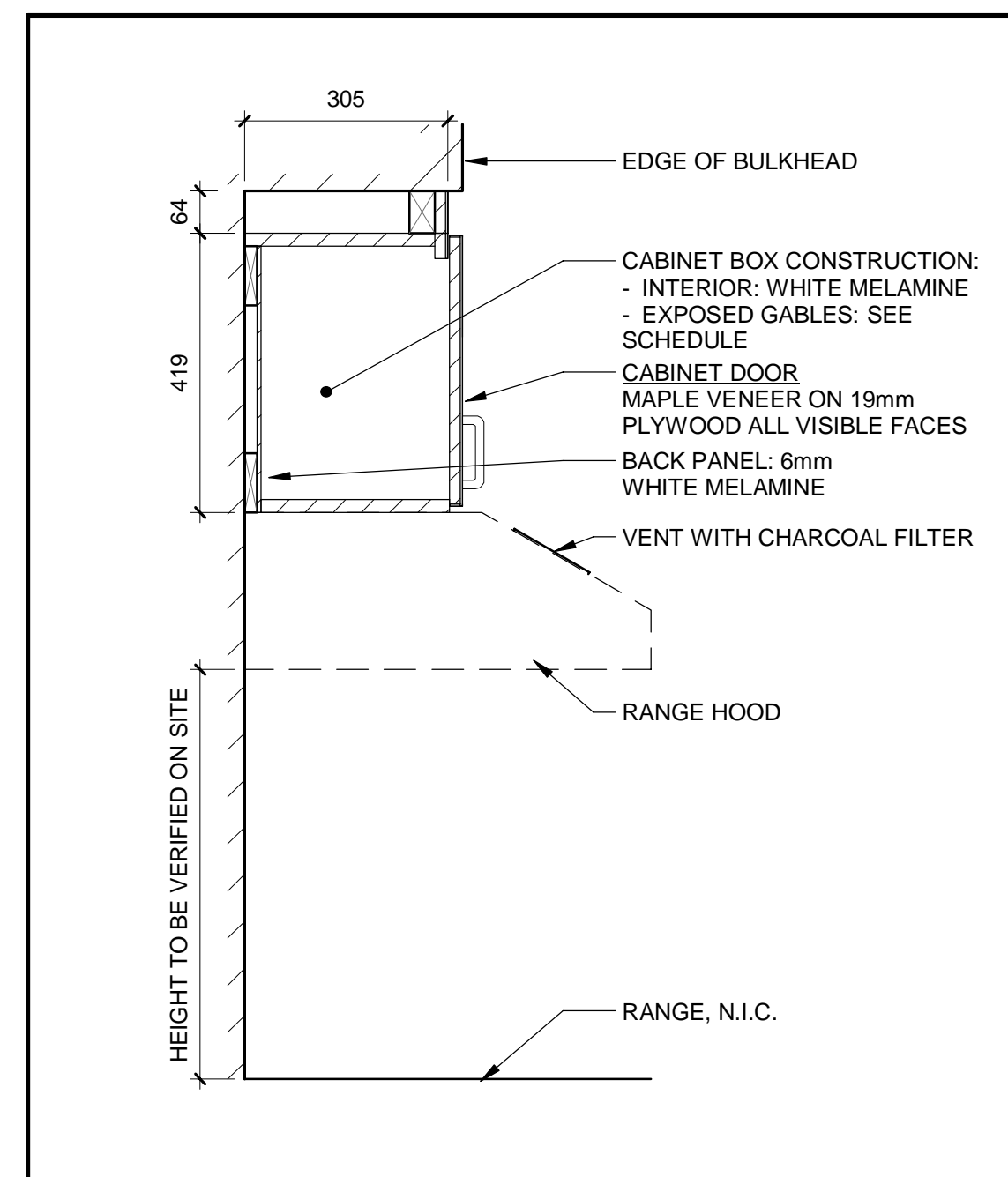
6 | DETAIL - MICROWAVE SHELF
A-421 REF: A-406 Scale: 1 : 10



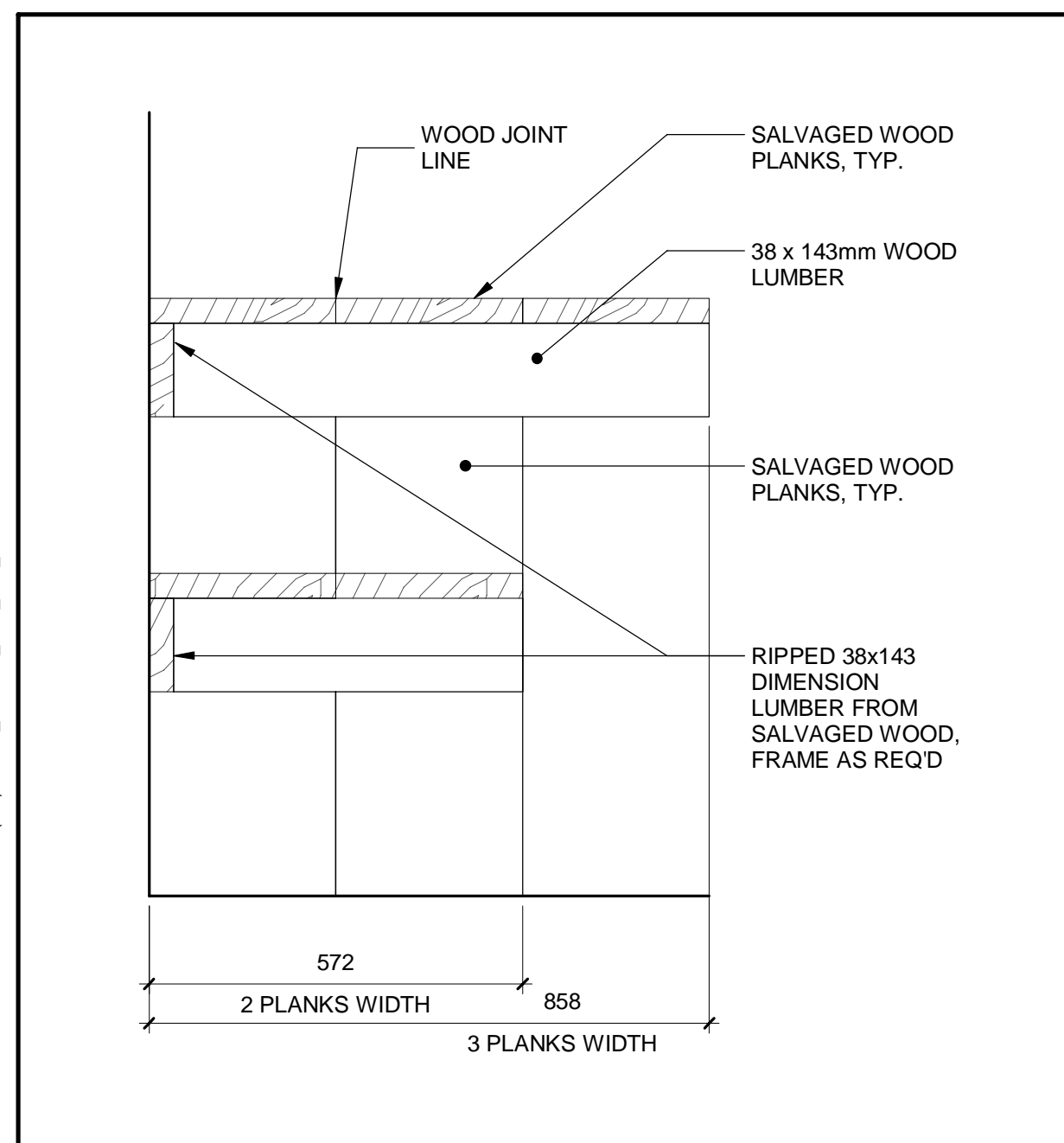
3 | DETAIL - UPPER CABINET
A-421 REF: A-406 Scale: 1 : 10



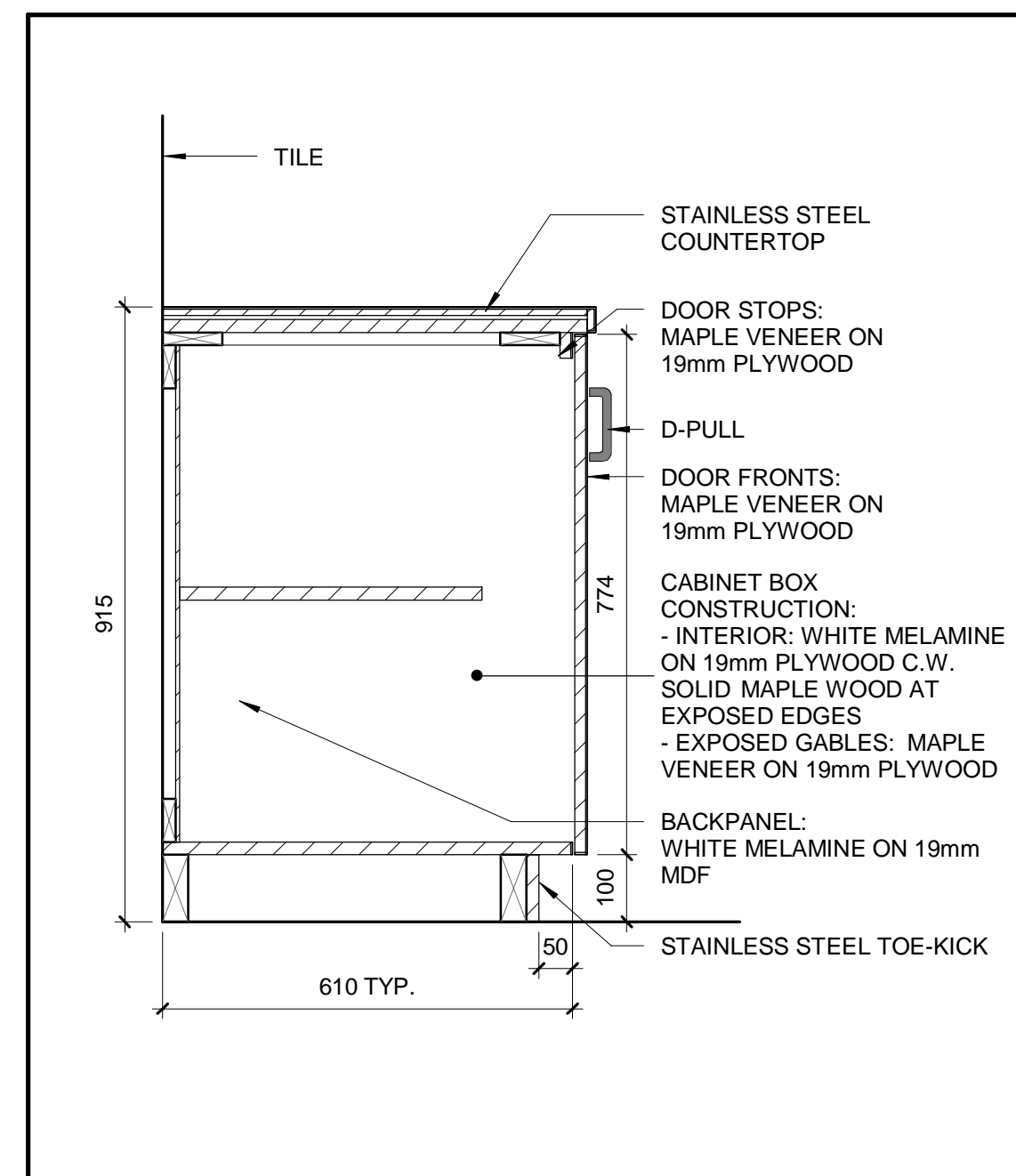
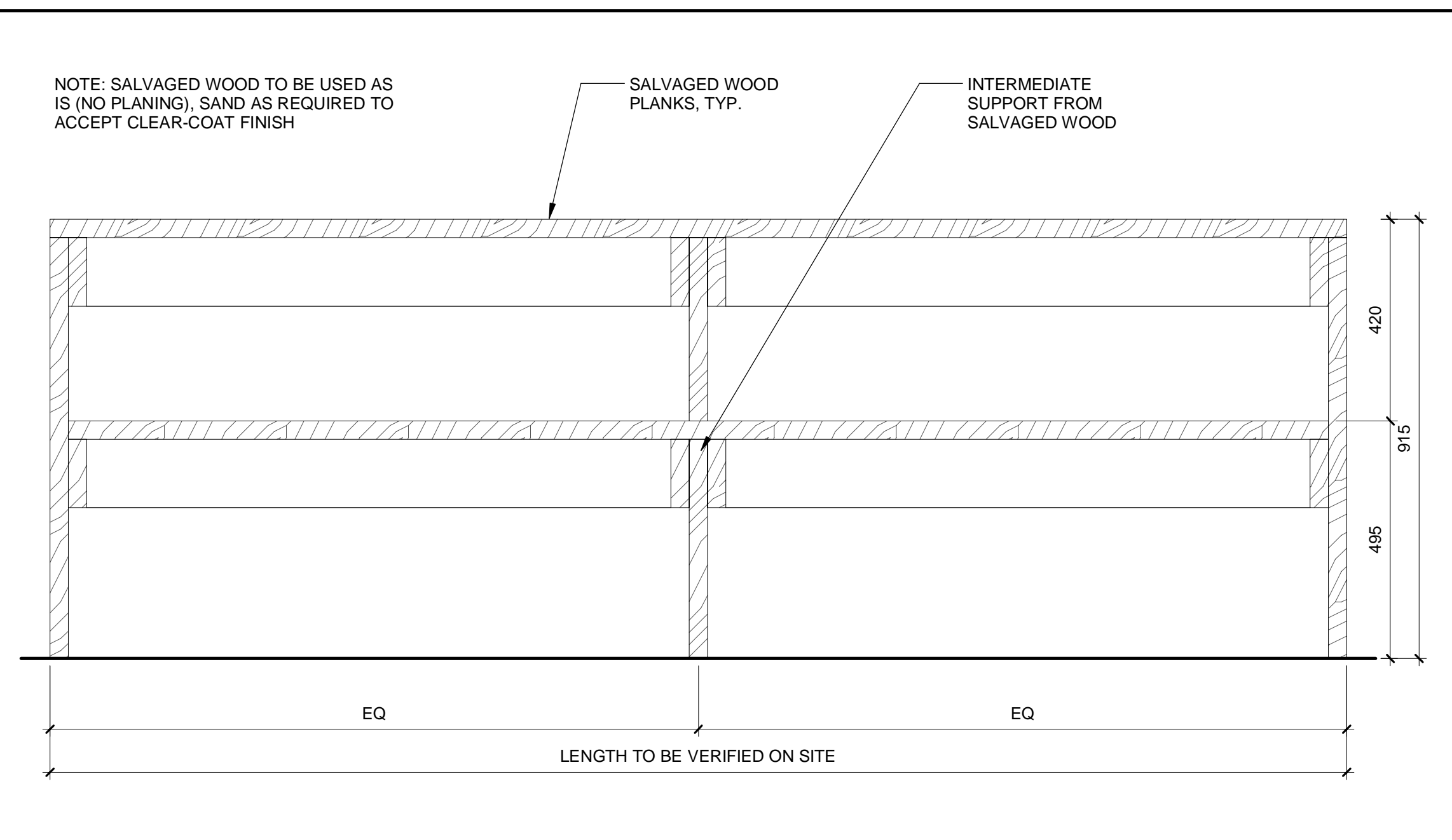
5 | SECTION DETAIL - LOWER CABINET w. DRAWER
A-421 REF: A-406 Scale: 1 : 10



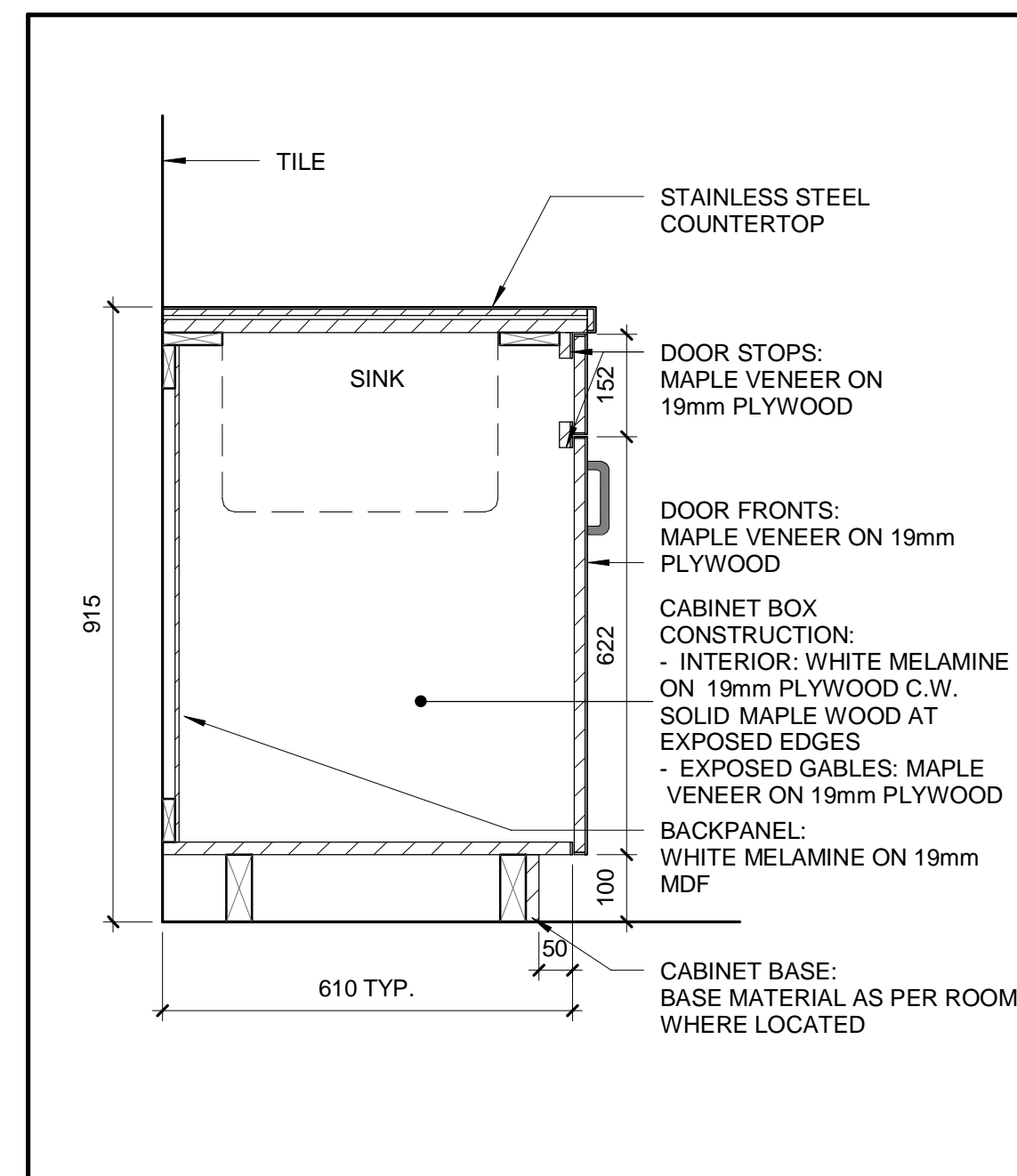
2 | DETAIL - RANGE HOOD CABINET
A-421 REF: A-406 Scale: 1 : 10



7 | CUSTOM WORK BENCH
A-421 REF: A-409 Scale: 1 : 10



4 | DETAIL - LOWER CABINET W. DOOR
A-421 REF: Scale: 1 : 10



1 | DETAIL - LOWER CABINET W. DOOR AND SINK
A-421 REF: A-406 Scale: 1 : 10

ISSUE / REVISIONS	
1 Issued for Building Permit Response	Apr.25.22
2 Issued for Tender	Aug.18.22



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CONSTRUCTION DOCUMENTATION
PROJECT No. 21-100
START DATE OCT.2021

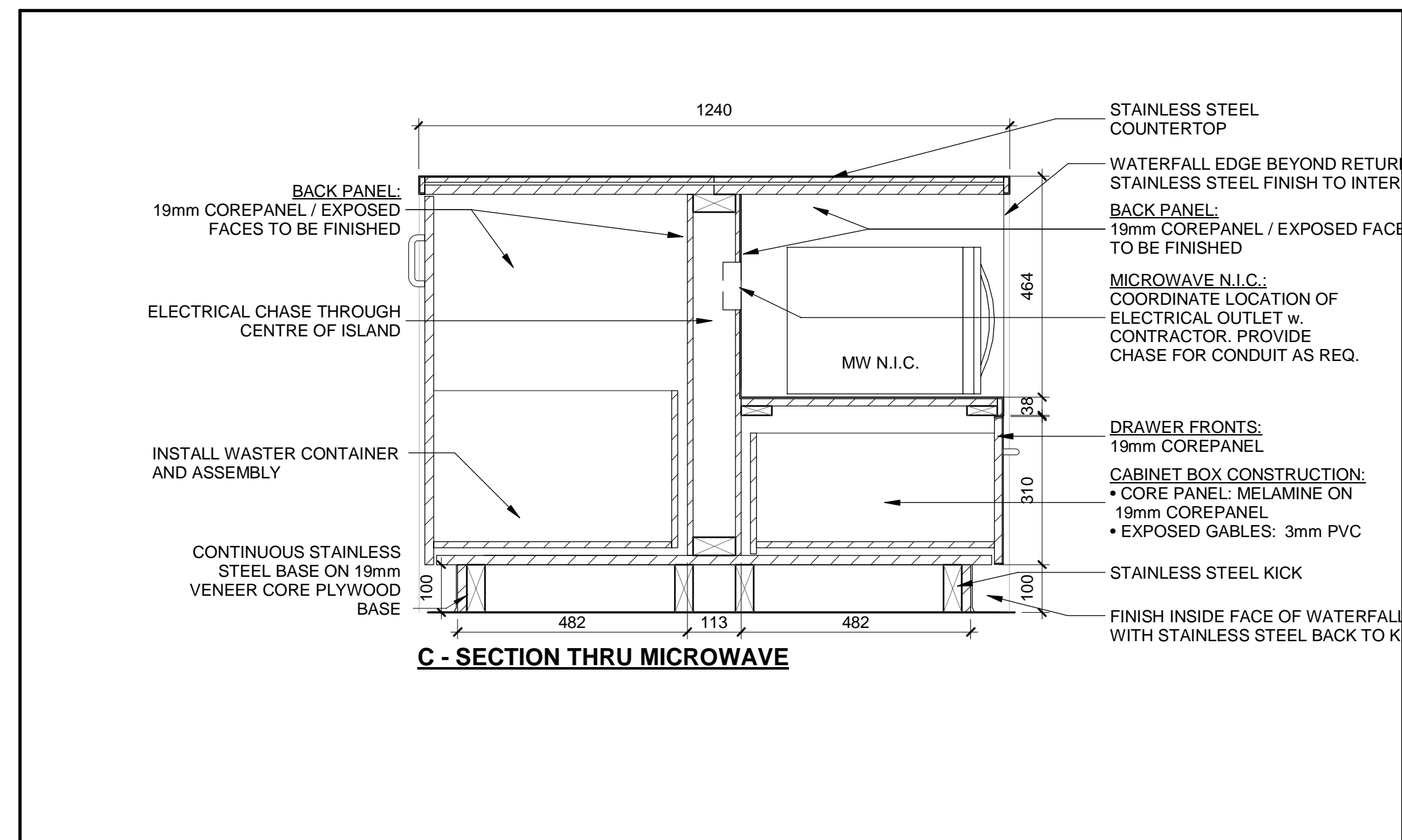
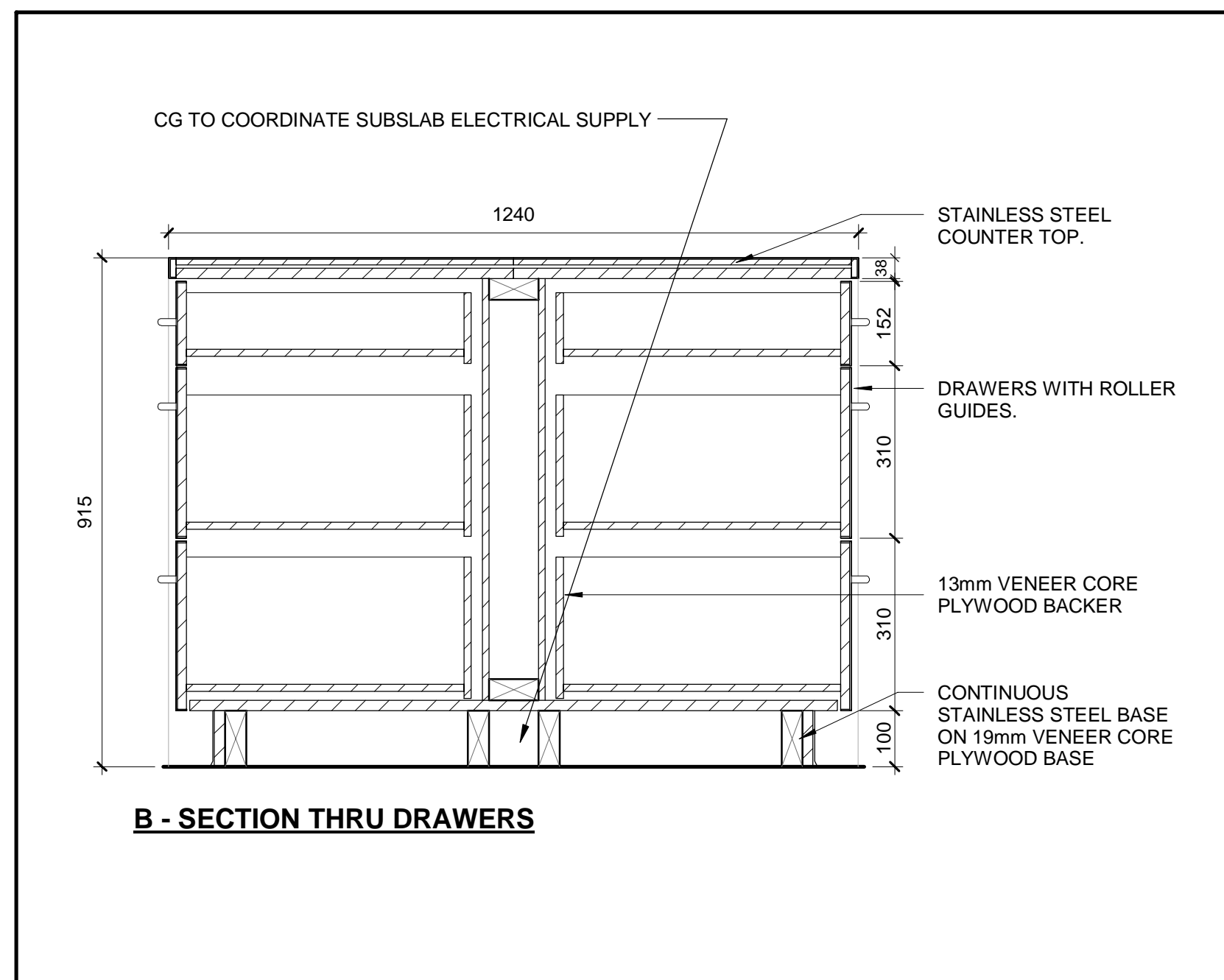
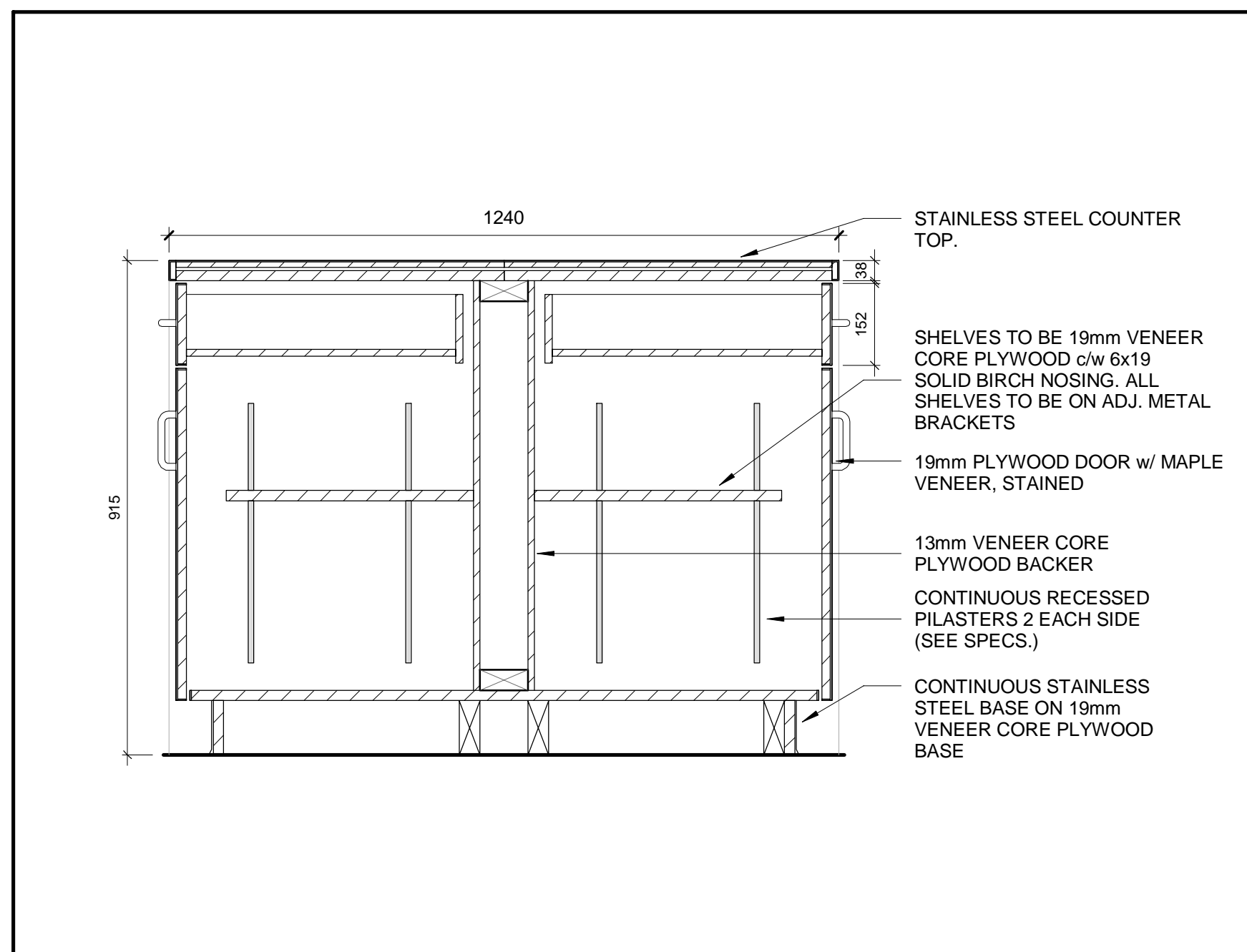
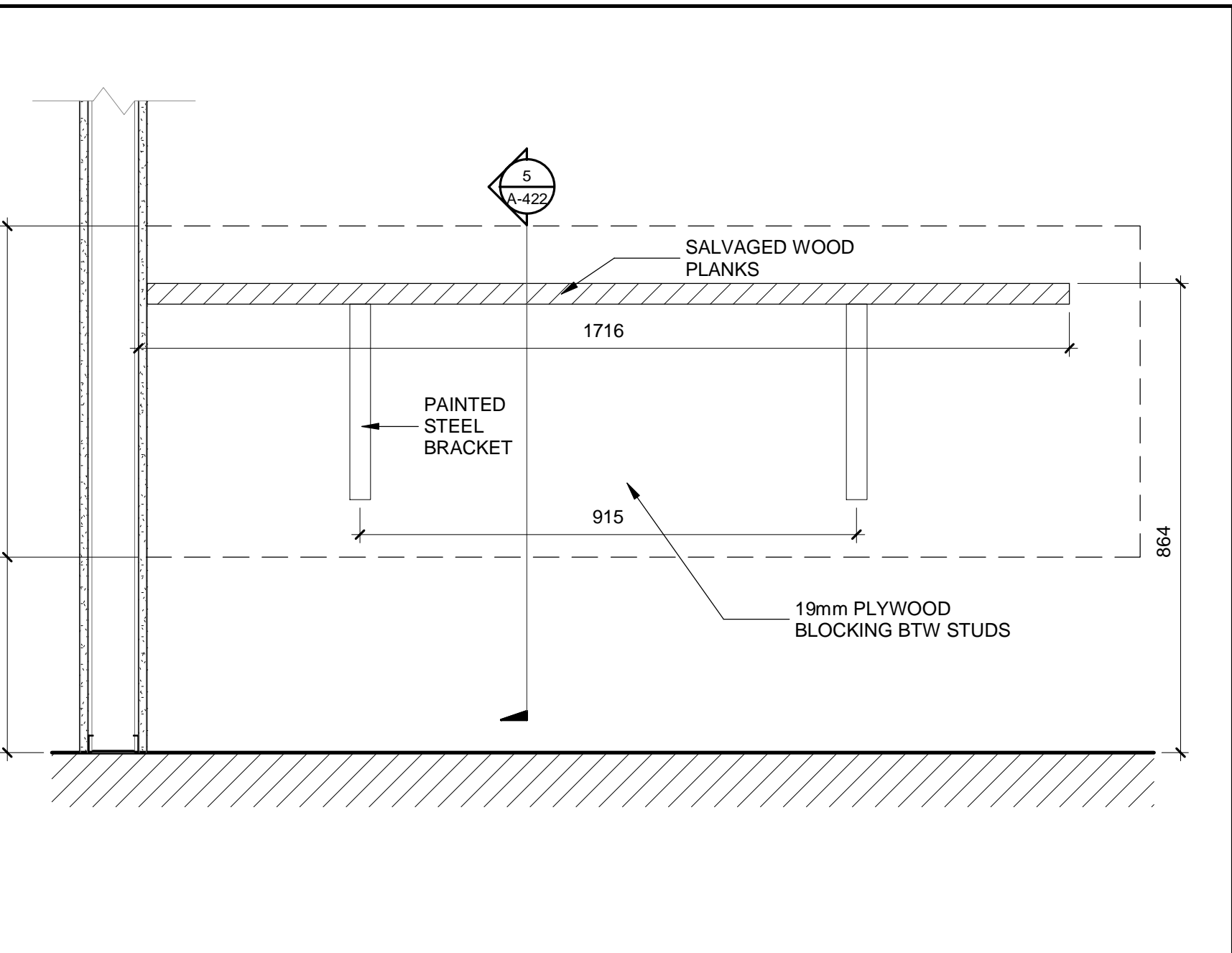
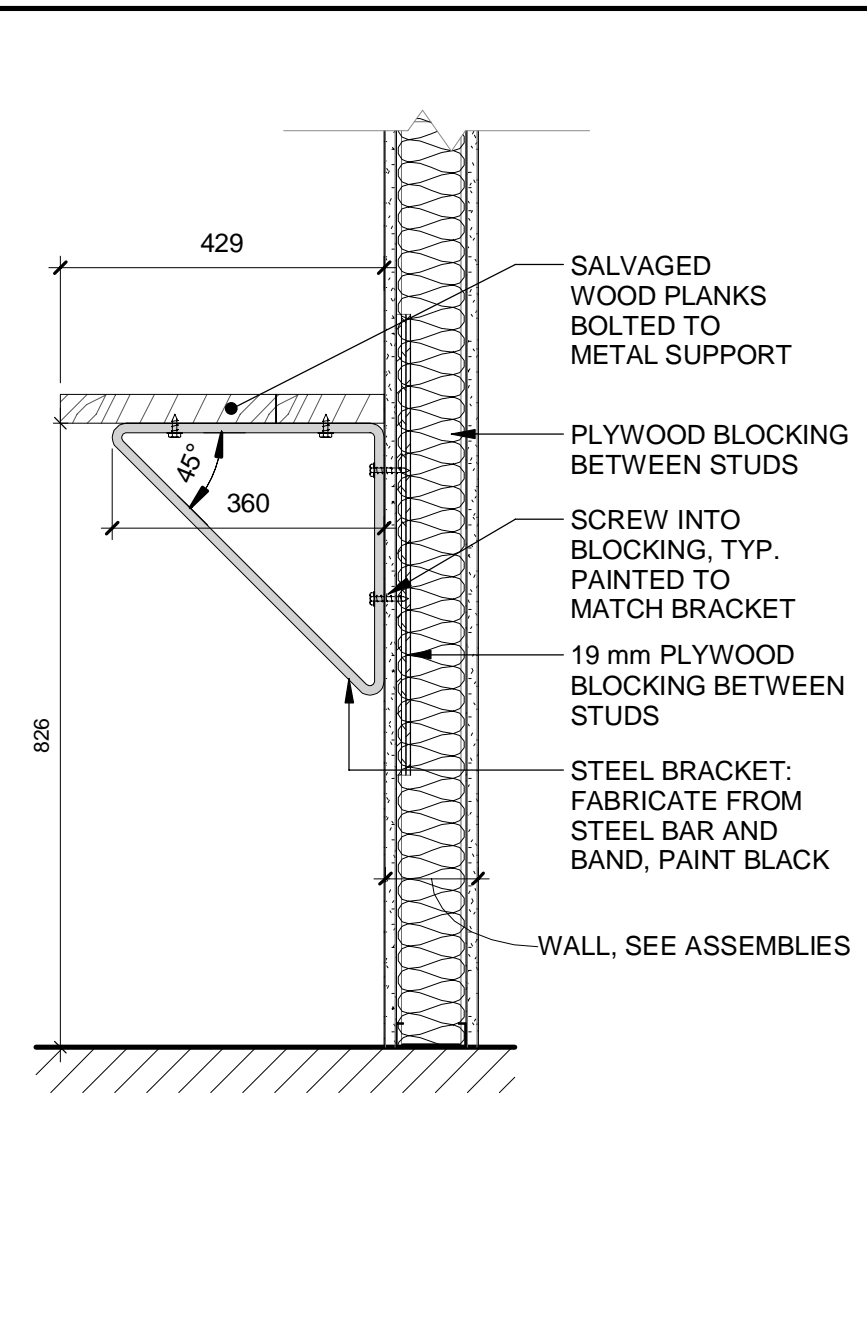
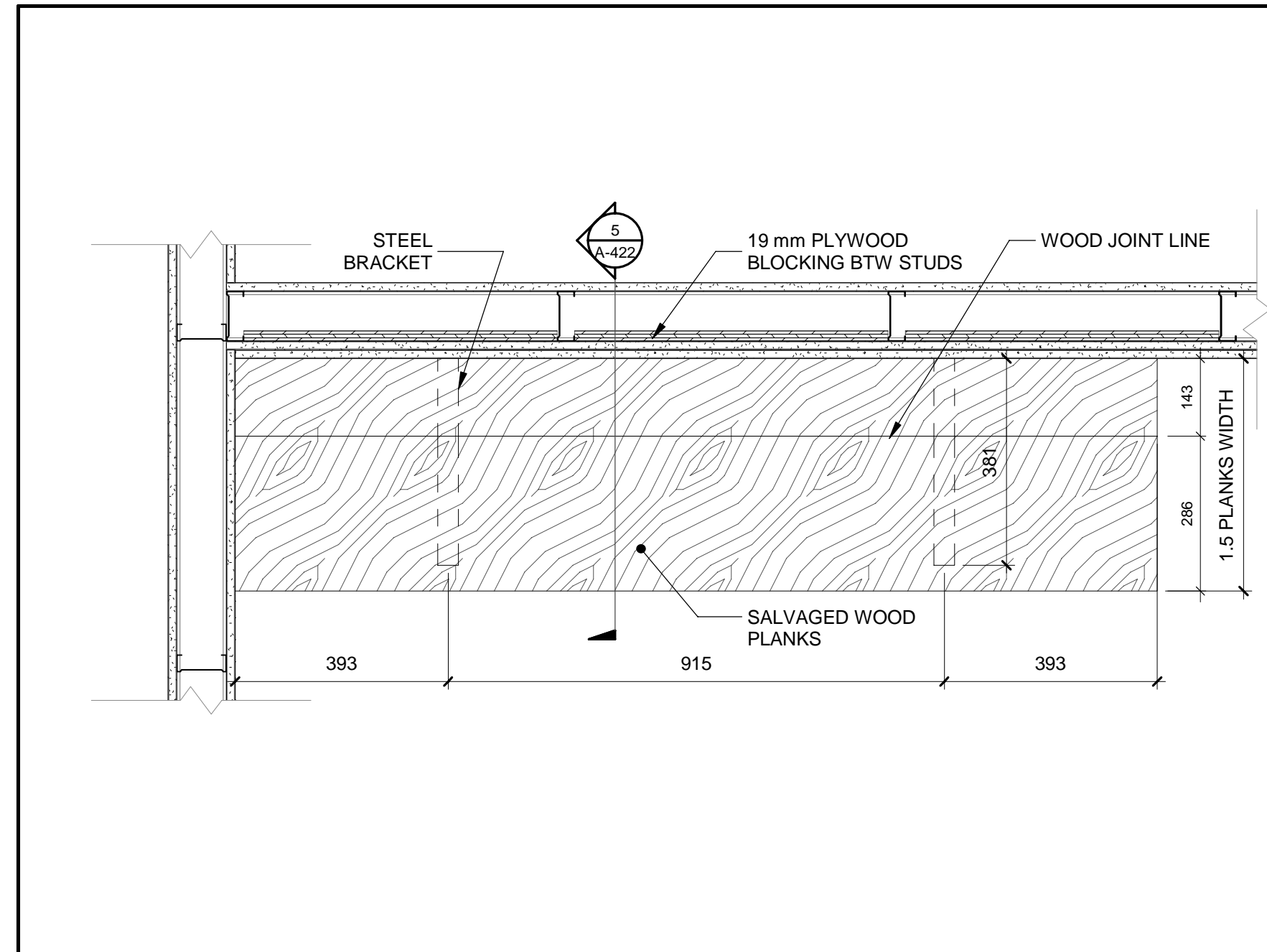
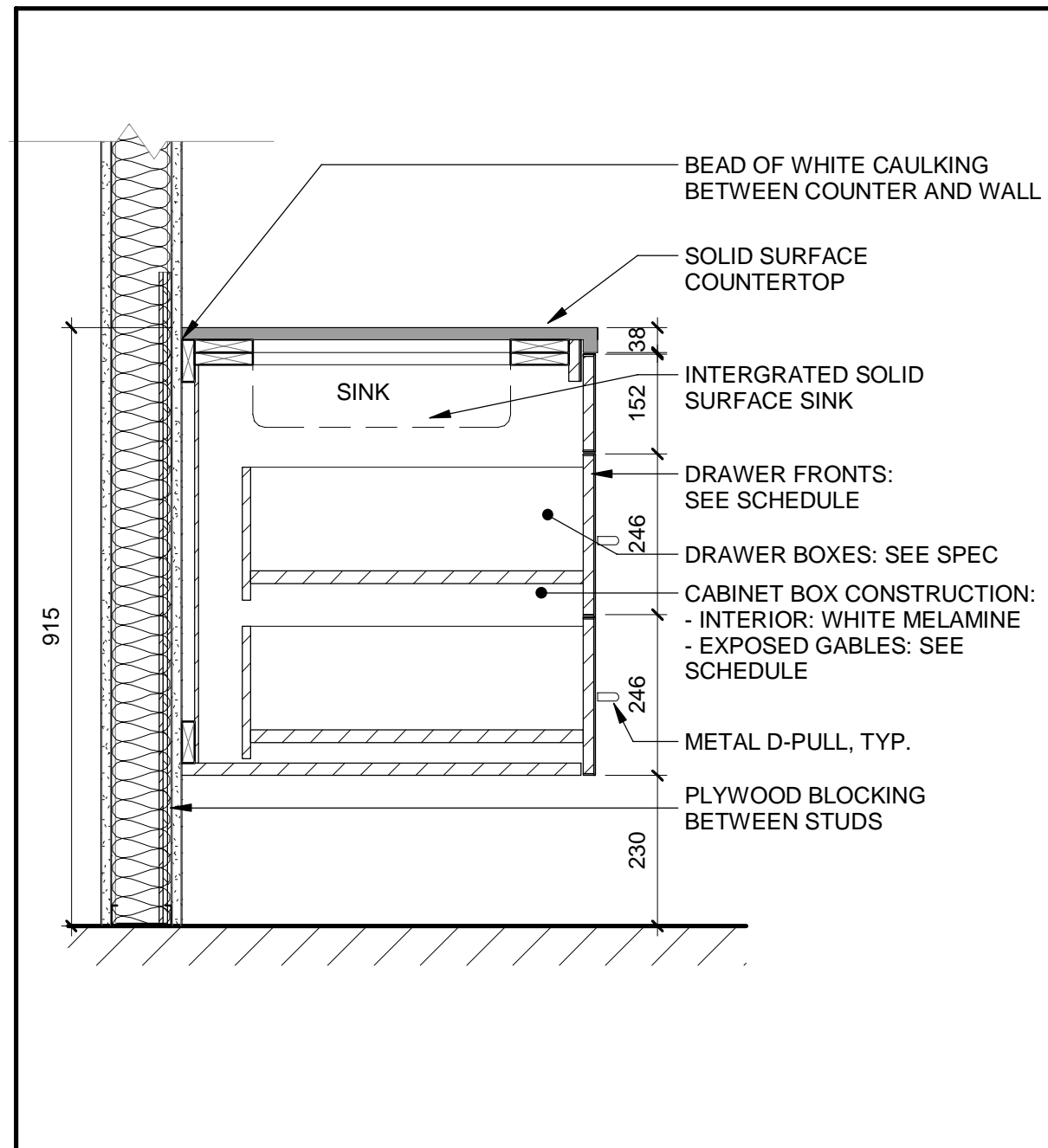
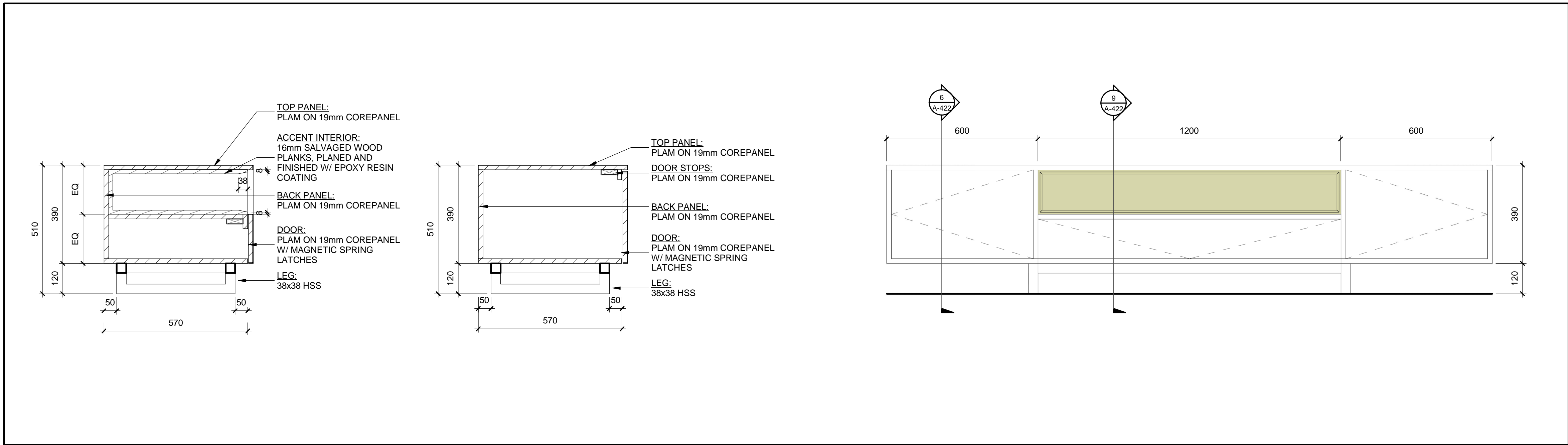
City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

MILLWORK DETAILS - CABINET

ISSUE / REVISIONS

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CONSTRUCTION DOCUMENTATION

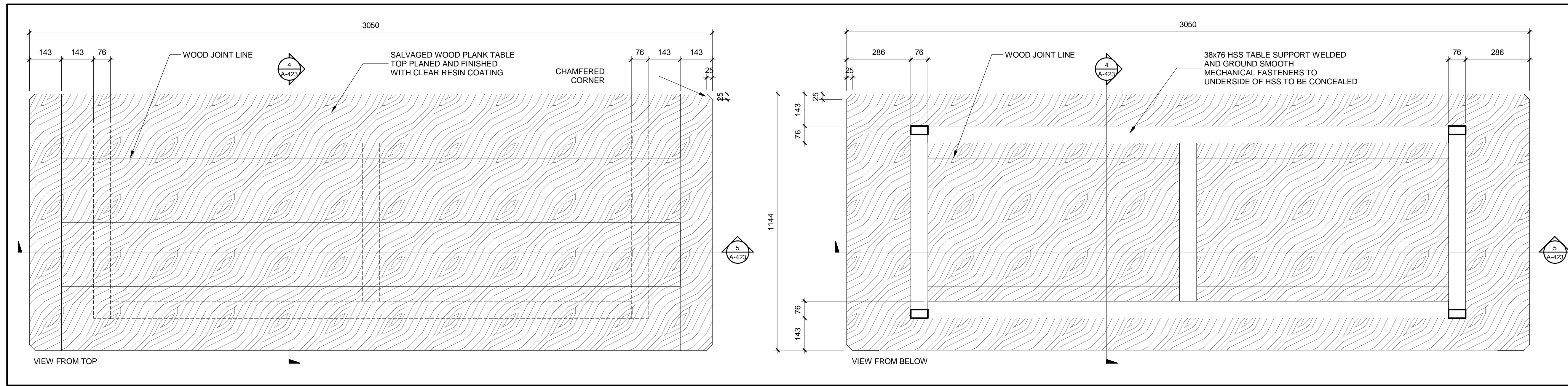
PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

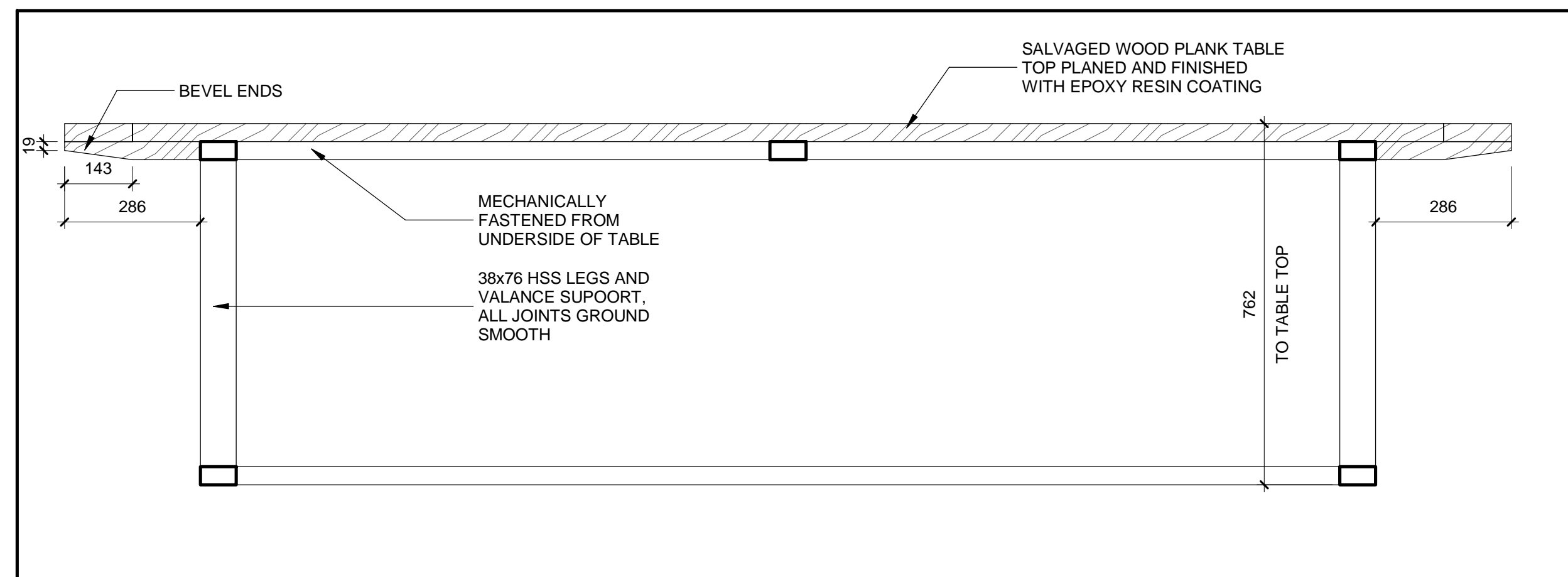
MILLWORK DETAILS -
KITCHEN ISLAND,
BENCH & TV
CREDENZA

A-422



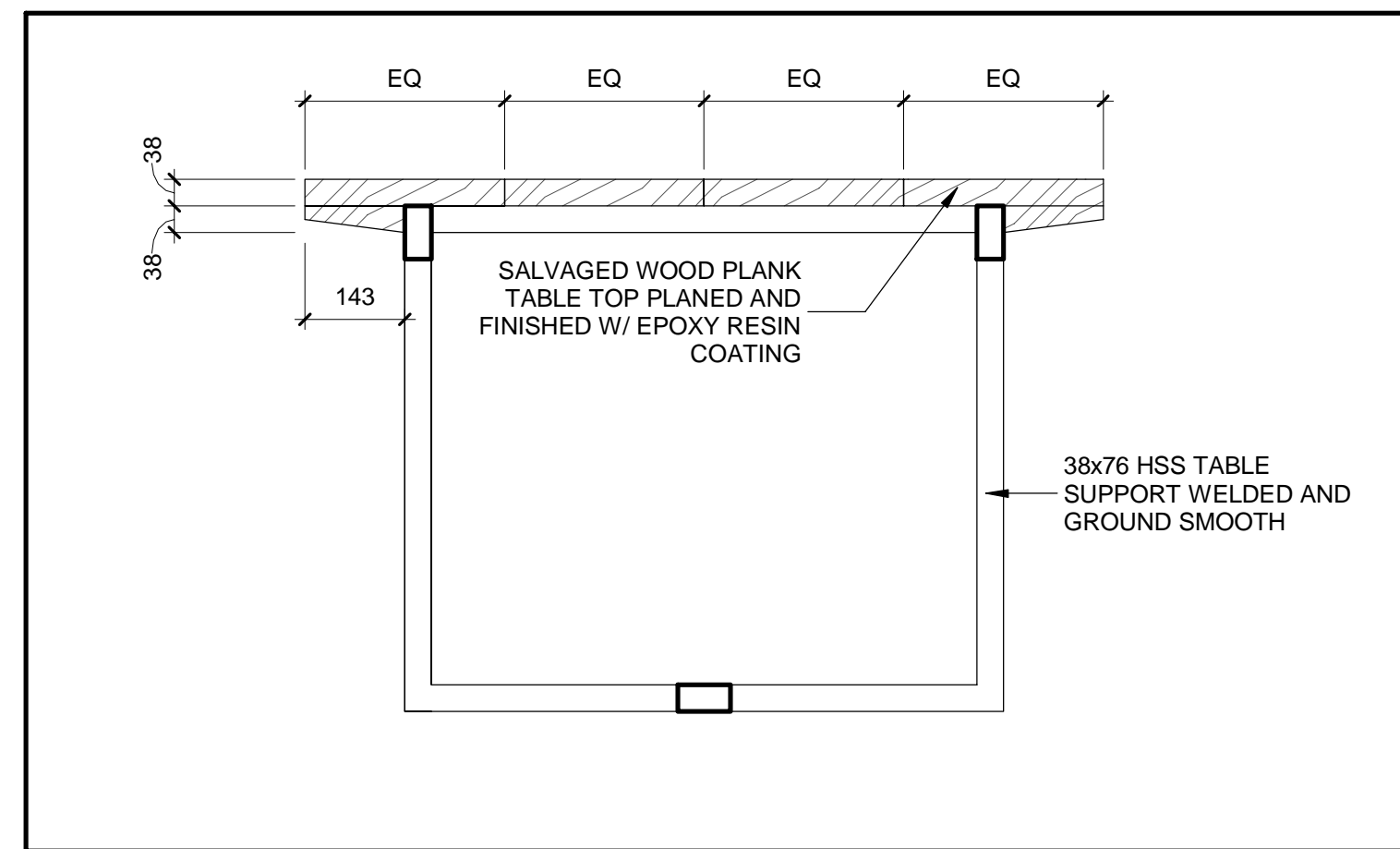
6 SALVAGED WOOD DINING TABLE - PLAN DETAIL

A-423 REF: Scale: 1 : 10



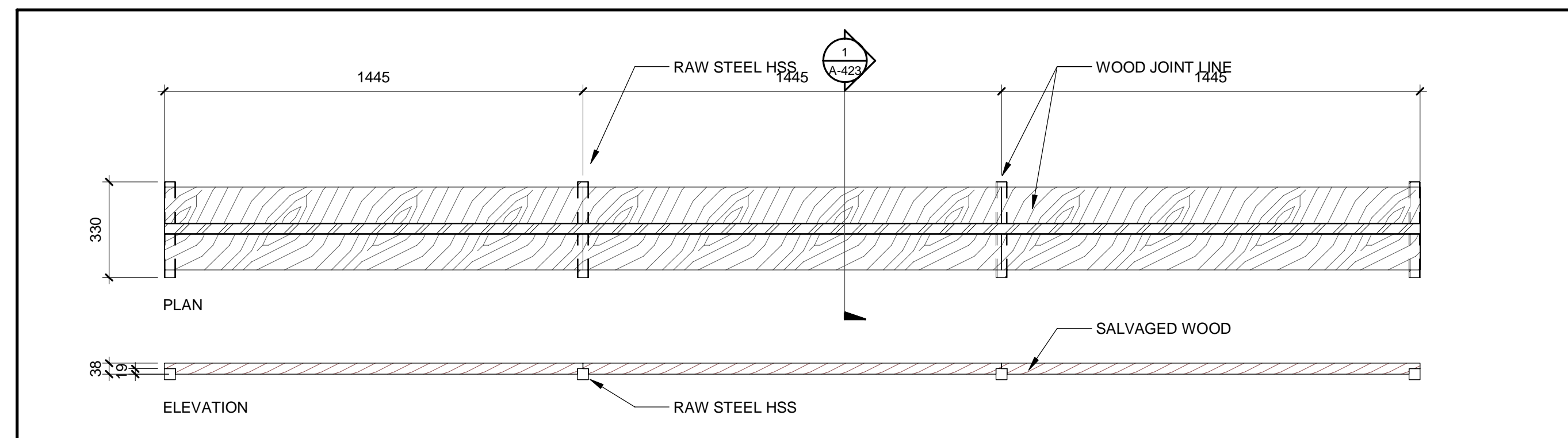
5 SALVAGED WOOD DINING TABLE - SEC. DETAIL A

A-423 REF: A-423 Scale: 1 : 10



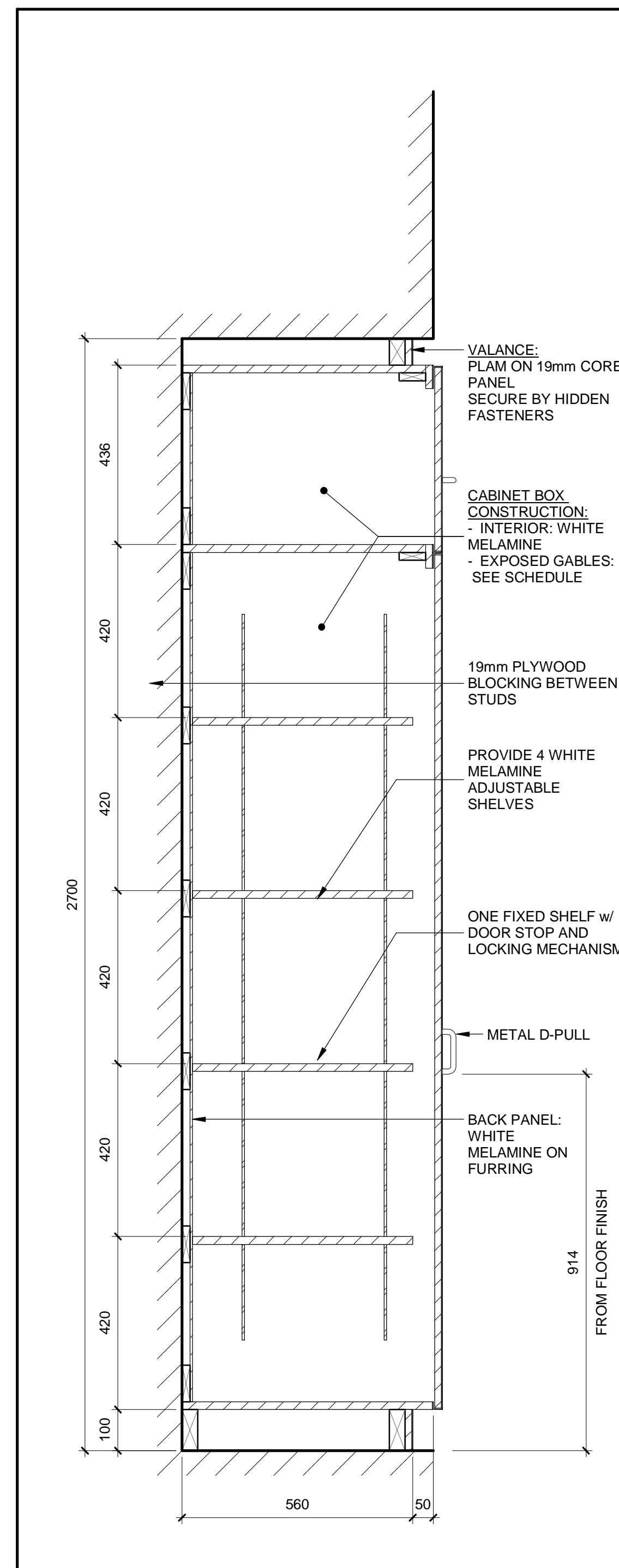
4 SALVAGED WOOD DINING TABLE - SEC. DETAIL B

A-423 REF: A-423 Scale: 1 : 10



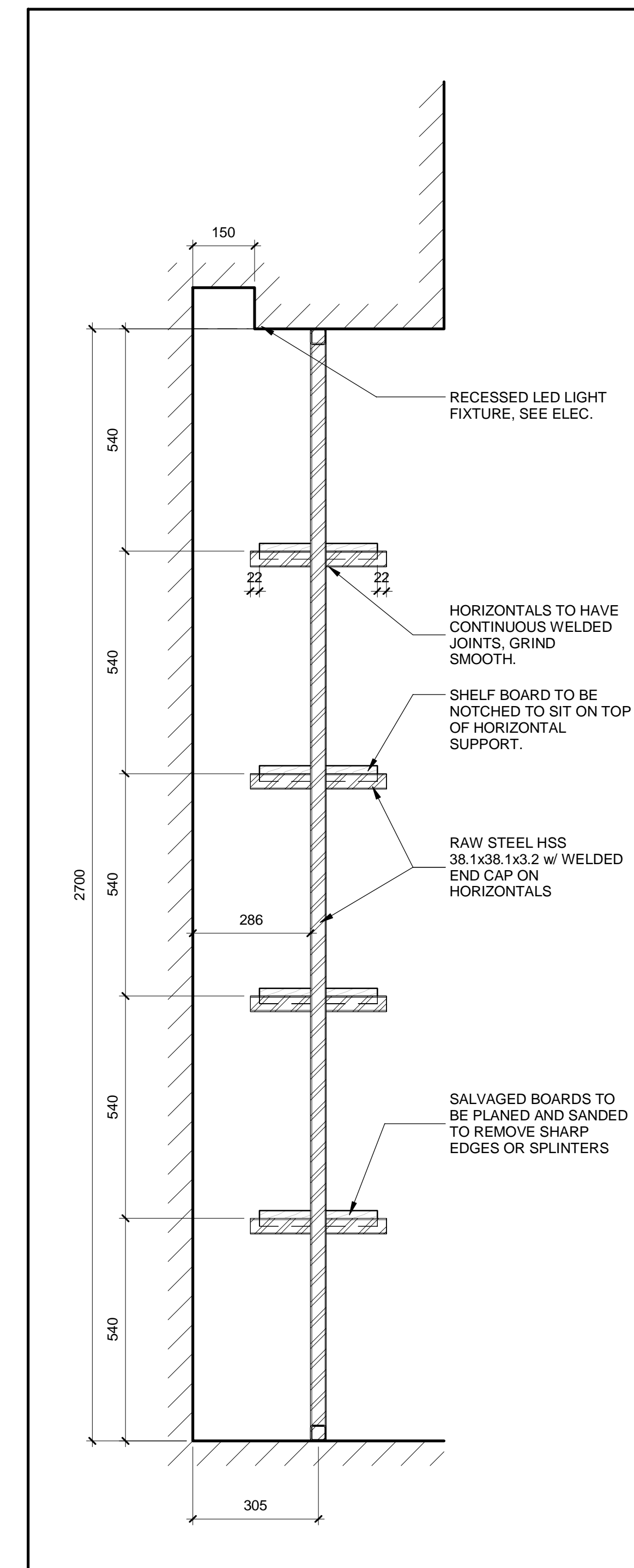
3 BOOK SHELF - PLAN DETAIL

A-423 REF: Scale: 1 : 15



2 PANTRY CABINET - SEC. DETAIL

A-423 REF: A-407 Scale: 1 : 10



1 BOOK SHELF - SEC. DETAIL

A-423 REF: A-407 Scale: 1 : 10

ISSUE / REVISIONS

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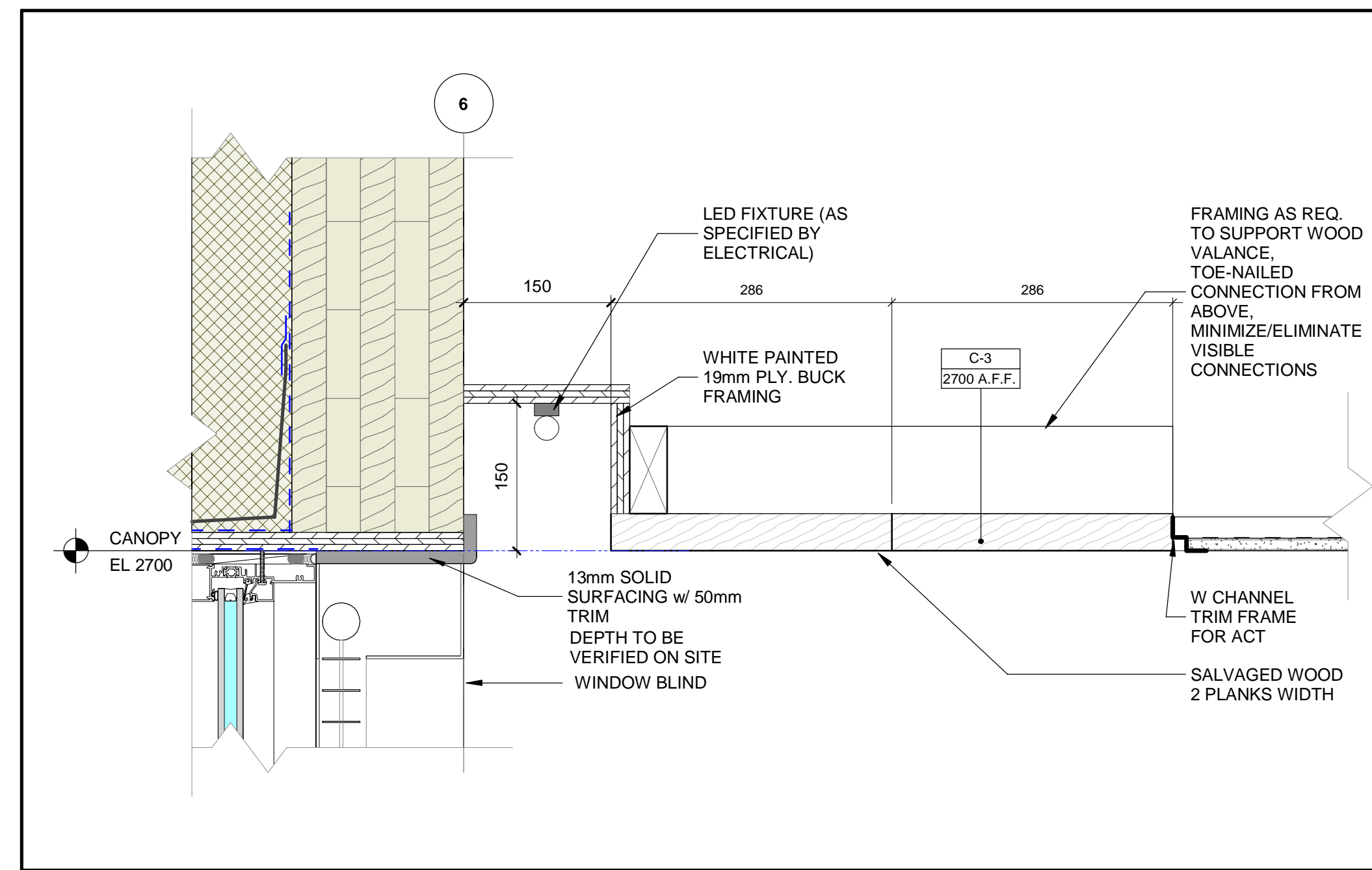
PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

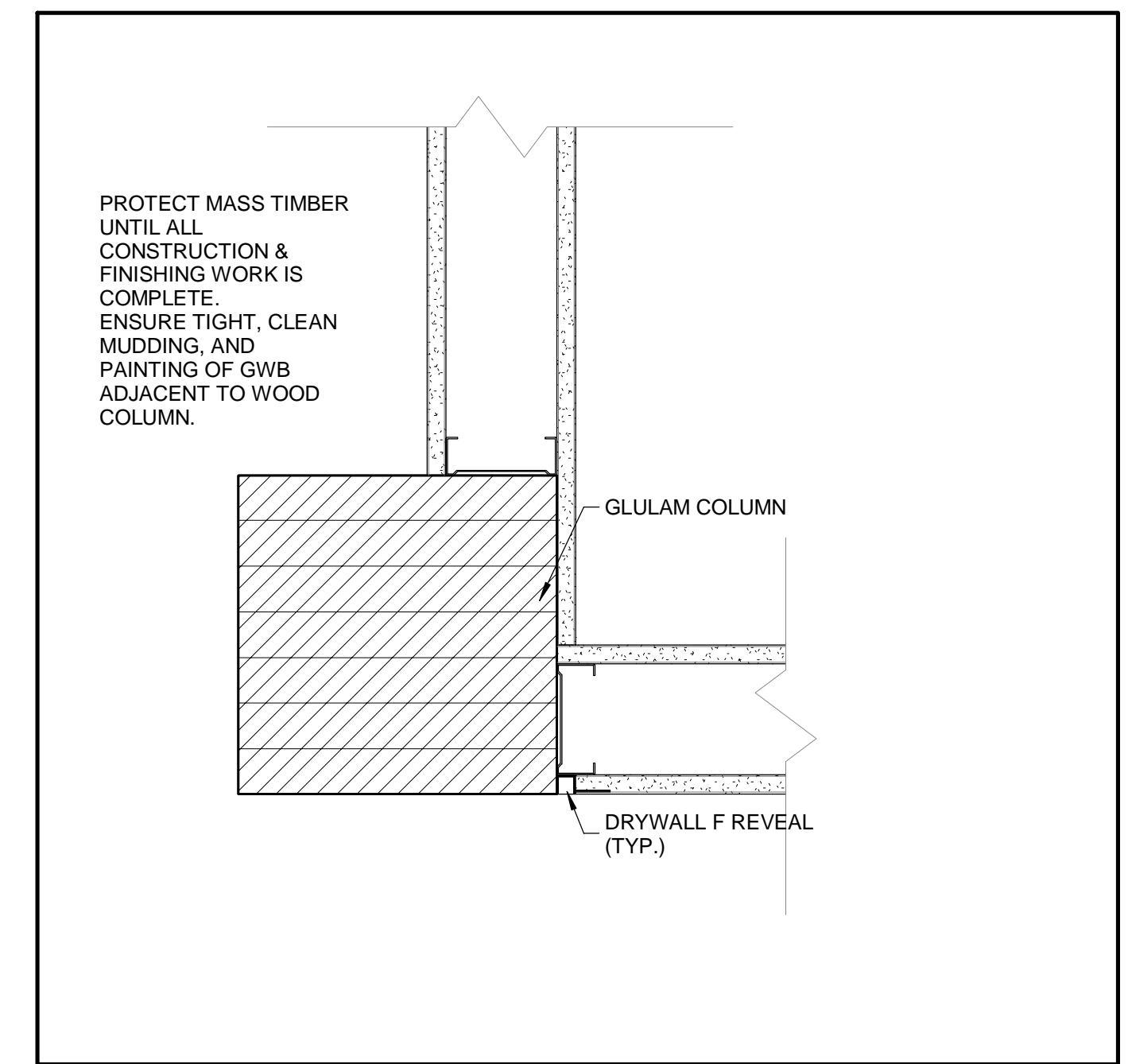
MILLWORK DETAILS -
DINING ROOM &
LOUNGE

ISSUE / REVISIONS	
1	Issued for Building Permit Response Apr.25.22
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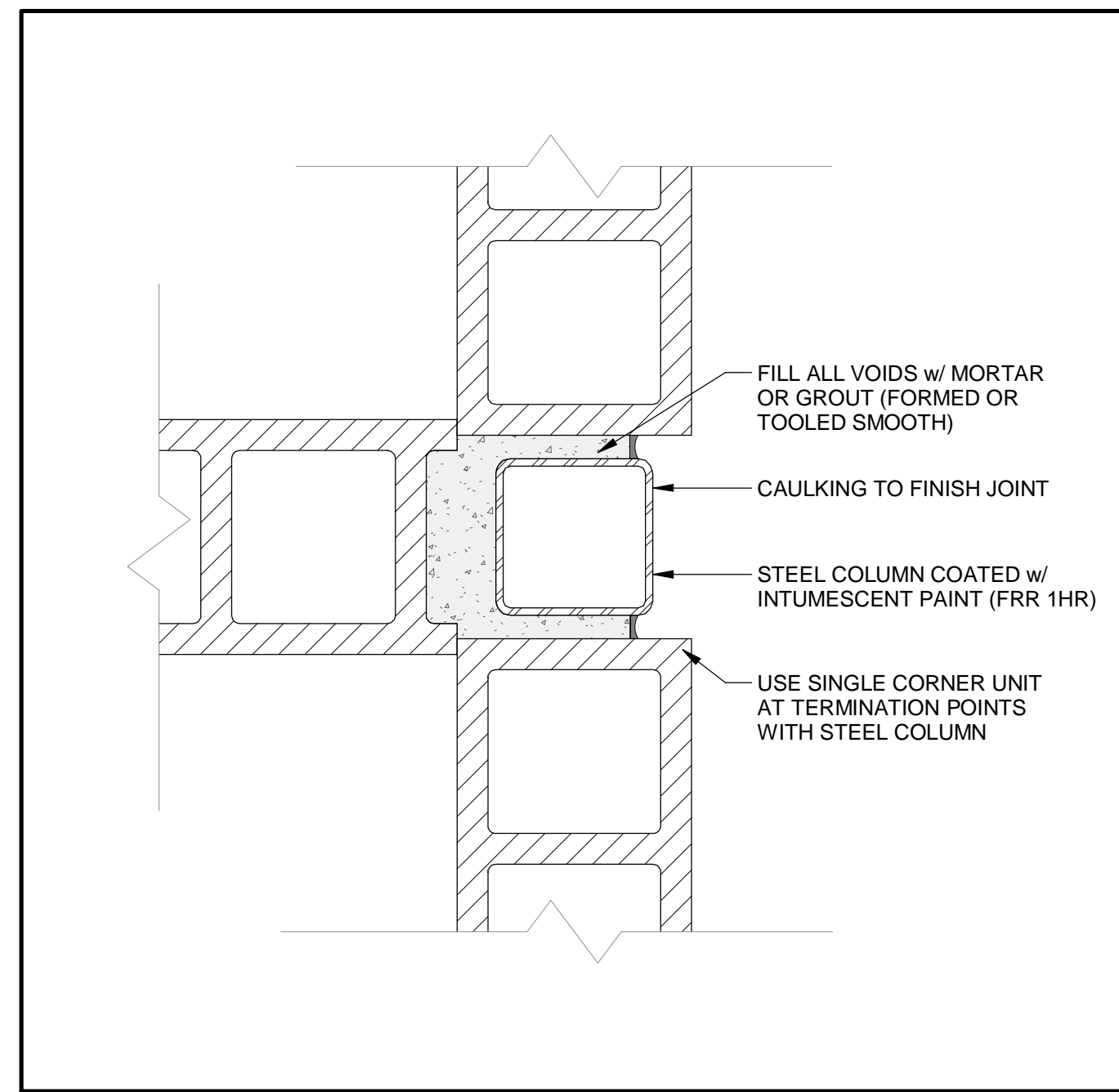
6 | SECTION DETAIL INTERIOR - TYP. WOOD CEILING

A-501 REF: A-313 Scale: 1 : 5



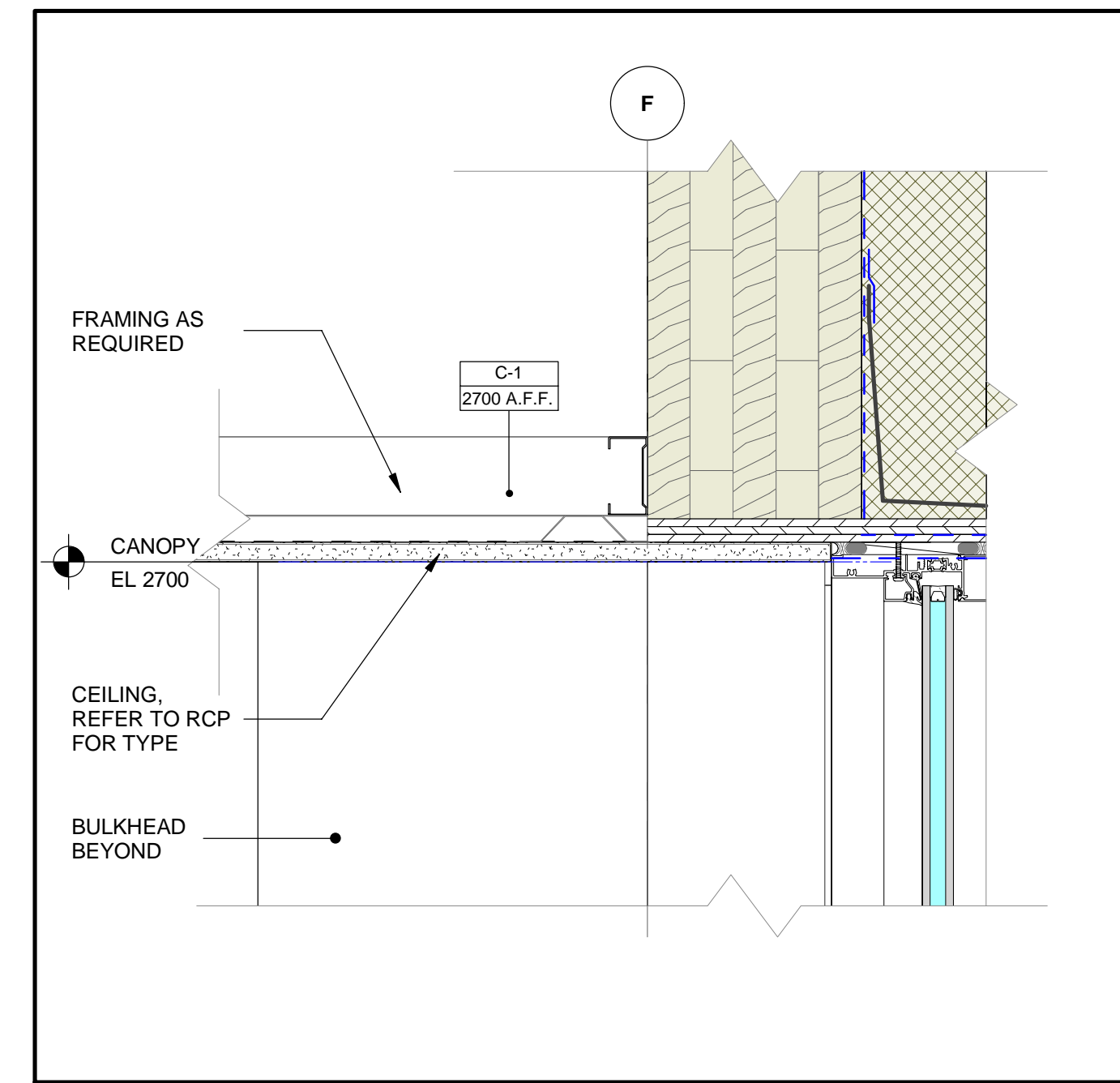
3 | PLAN DETAIL - PARTITION & COLUMN CONNECTION @ CORNER

A-501 REF: Scale: 1 : 5



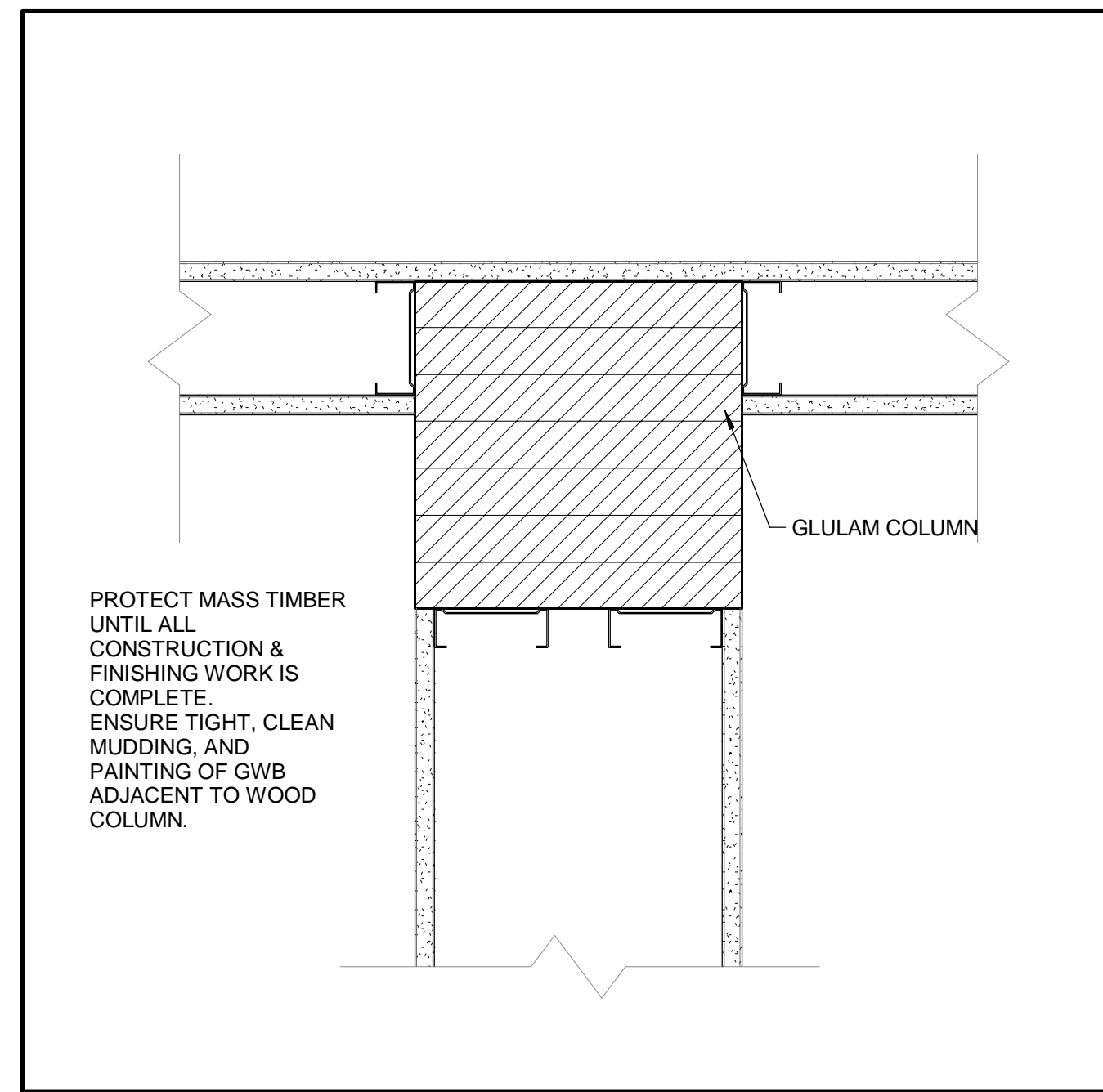
10 | PLAN DETAIL - CMU & STEEL COLUMN CONNECTION TYP.

A-501 REF: A-409 Scale: 1 : 5



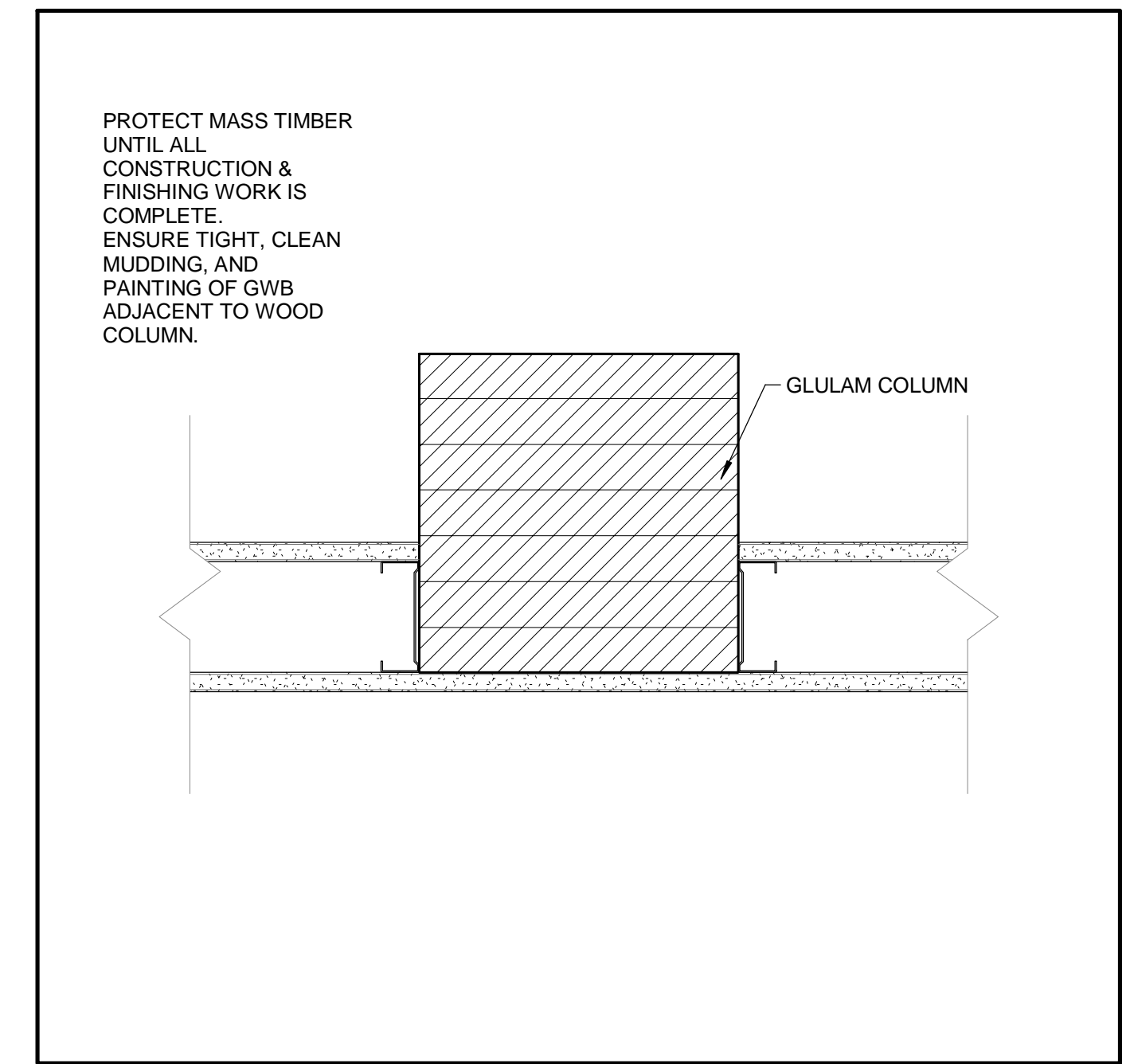
8 | SECTION DETAIL INTERIOR - WINDOW HEAD @ KITCHEN

A-501 REF: A-313 Scale: 1 : 5



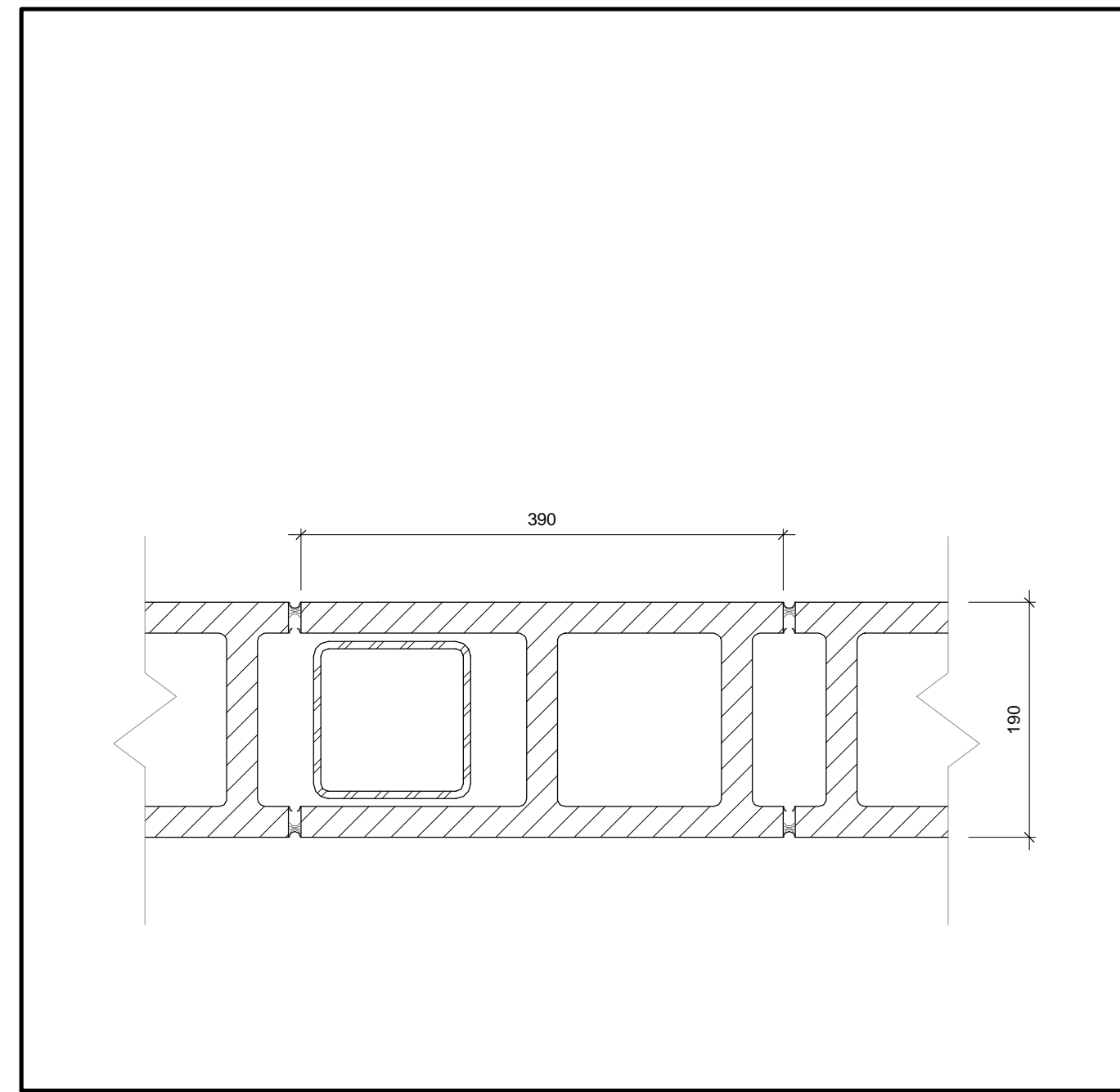
5 | PLAN DETAIL - PARTITION & COLUMN CONNECTION

A-501 REF: Scale: 1 : 5



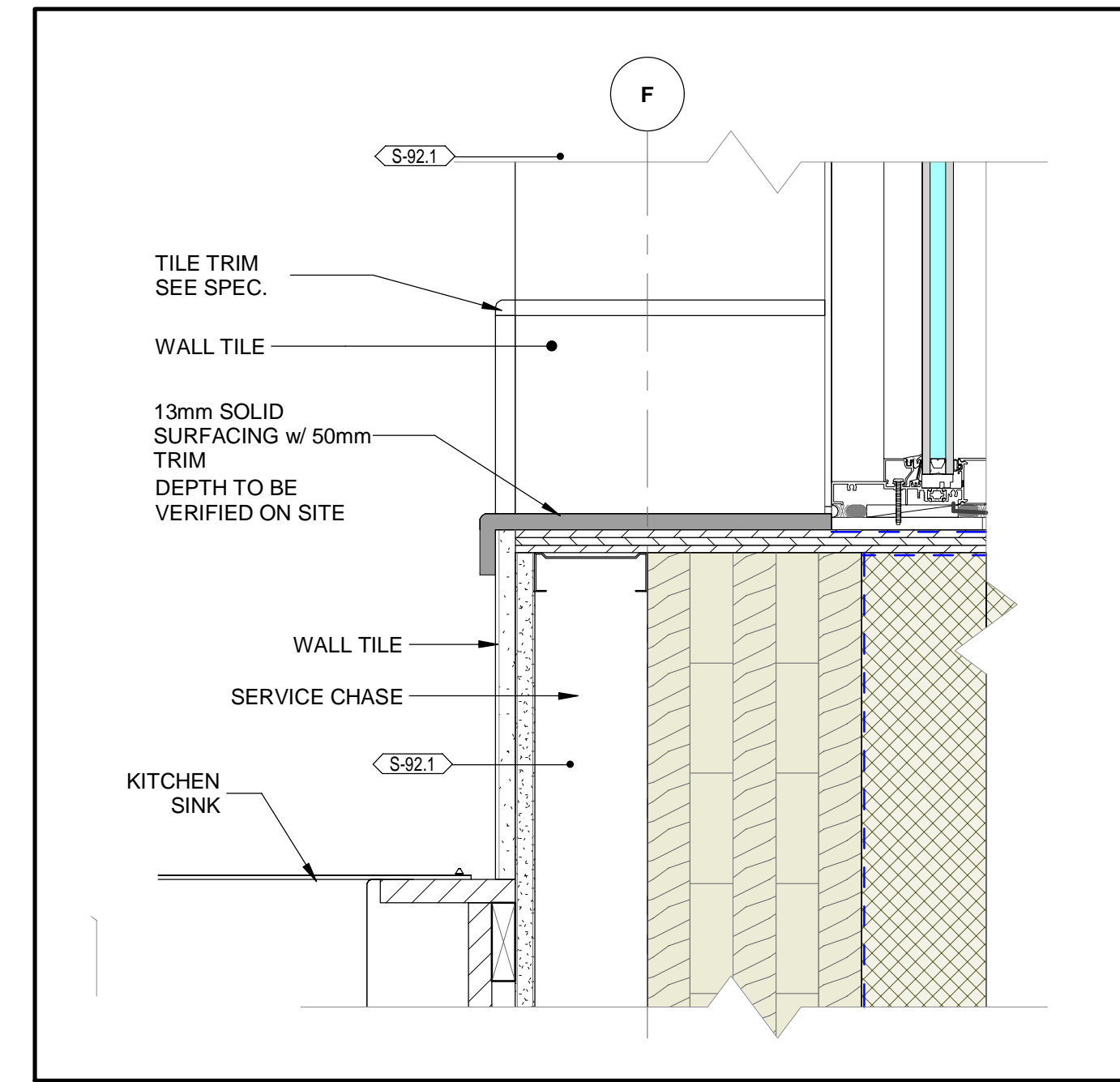
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A-501 REF: Scale: 1 : 5



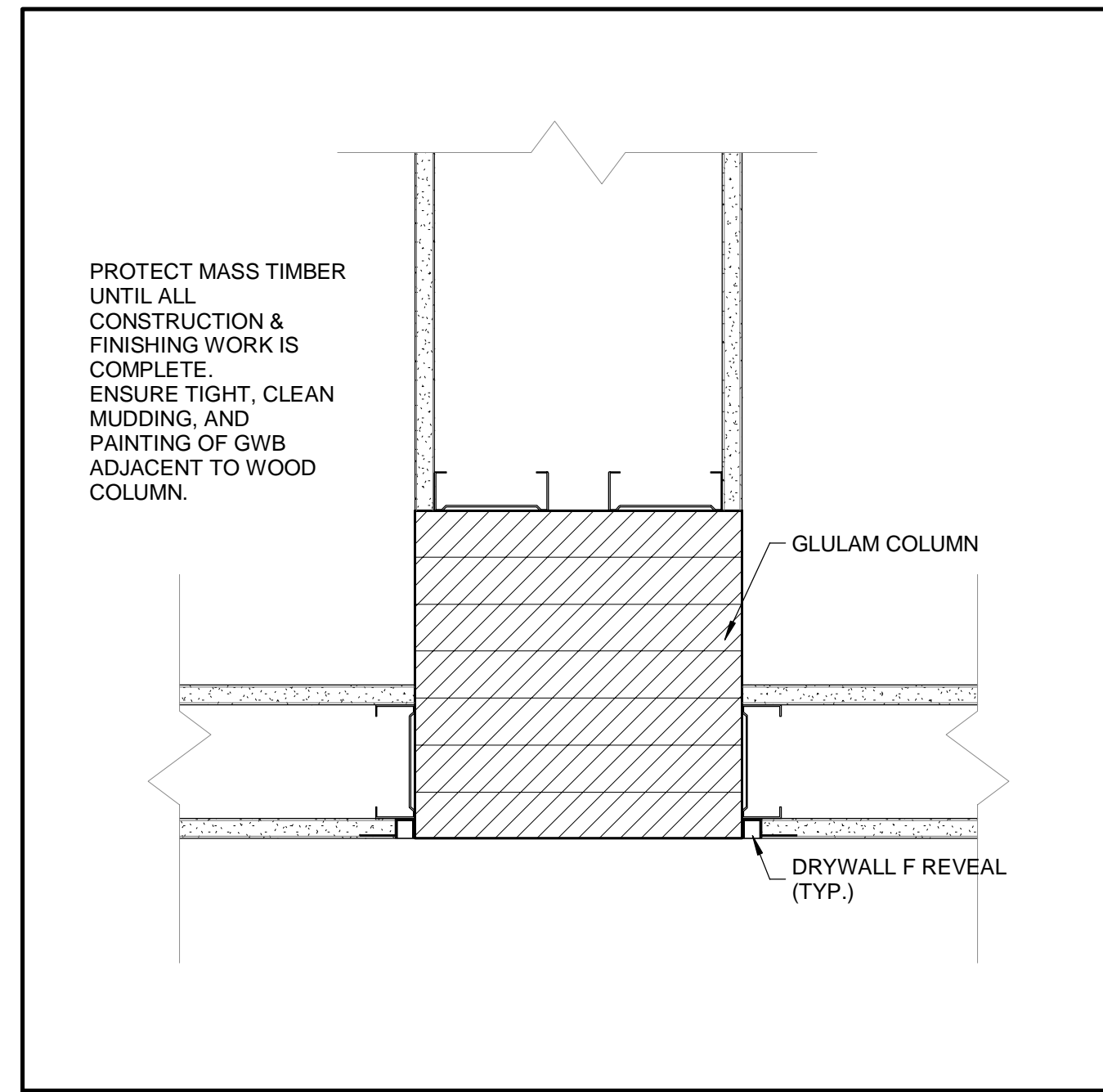
9 | PLAN DETAIL - STEEL COLUMN IN CMU WALL

A-501 REF: A-409 Scale: 1 : 5



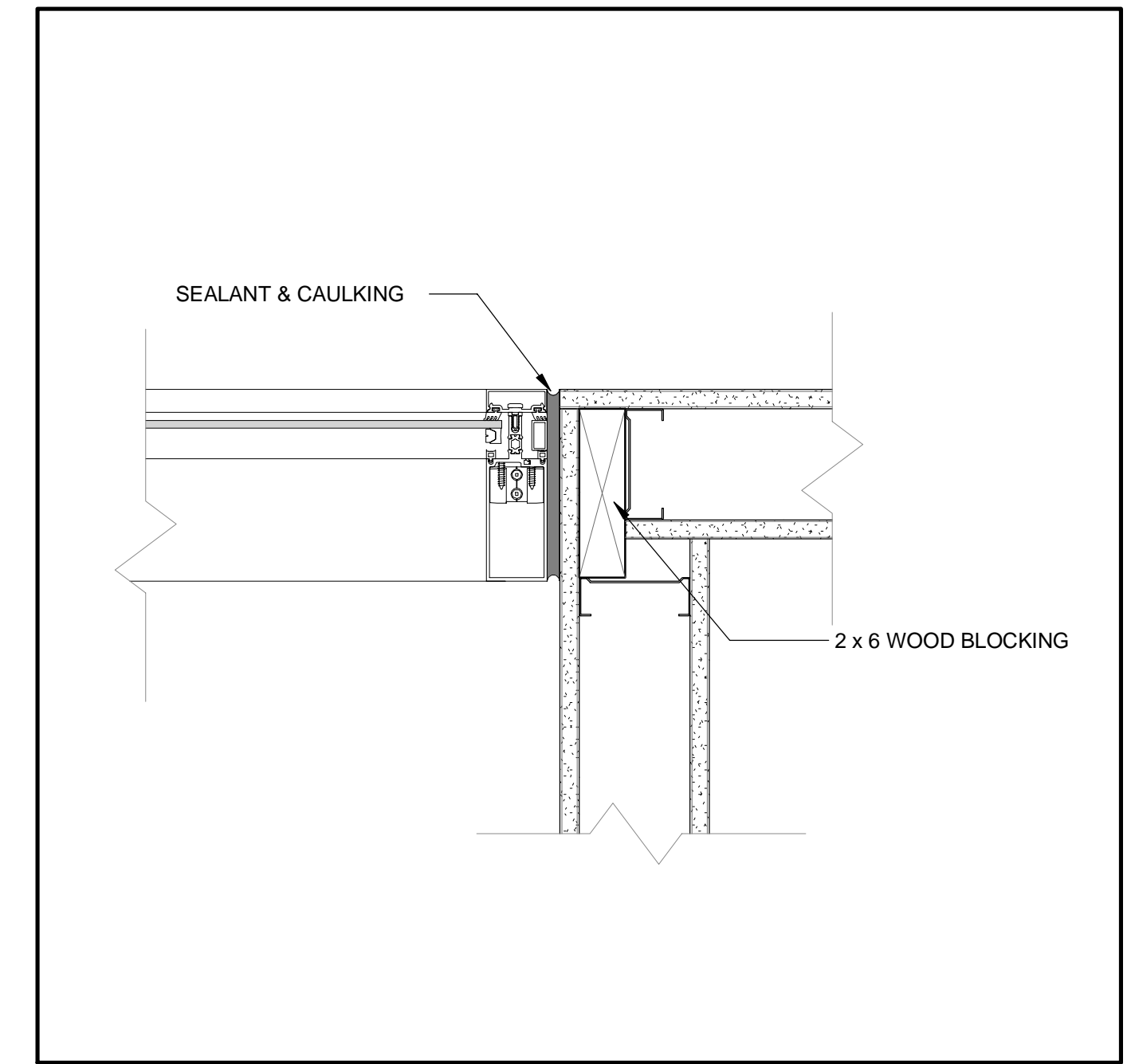
7 | SECTION DETAIL INTERIOR - WINDOW SILL @ KITCHEN

A-501 REF: A-313 Scale: 1 : 5



4 | PLAN DETAIL - PARTITION & COLUMN CONNECTION W/ REVEAL

A-501 REF: A-408 Scale: 1 : 5



1 | PLAN DETAIL - ALUMINUM FRAME TO GWB

A-501 REF: Scale: 1 : 5



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CONSTRUCTION DOCUMENTATION
PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

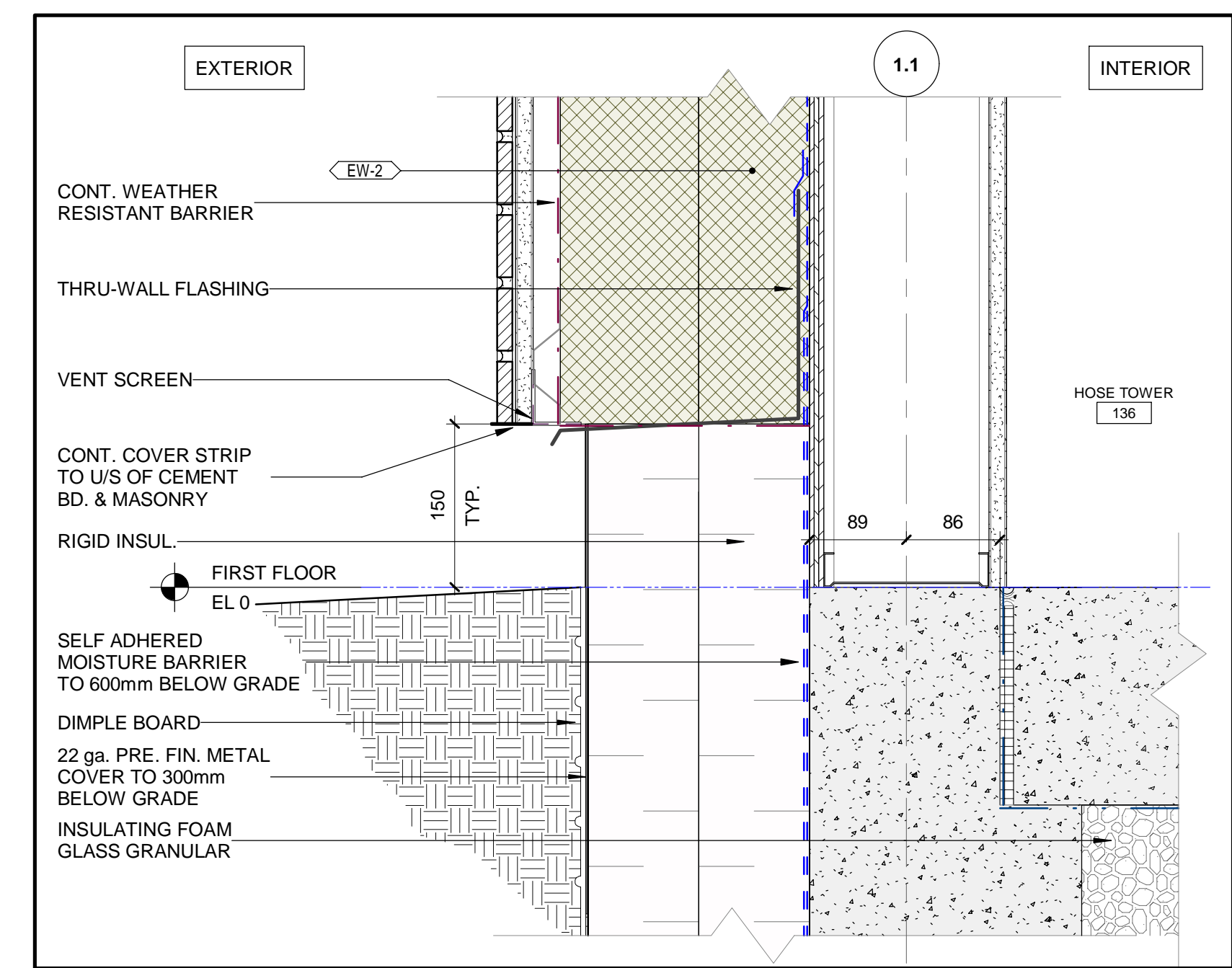
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

DETAILS - INTERIOR

A-501

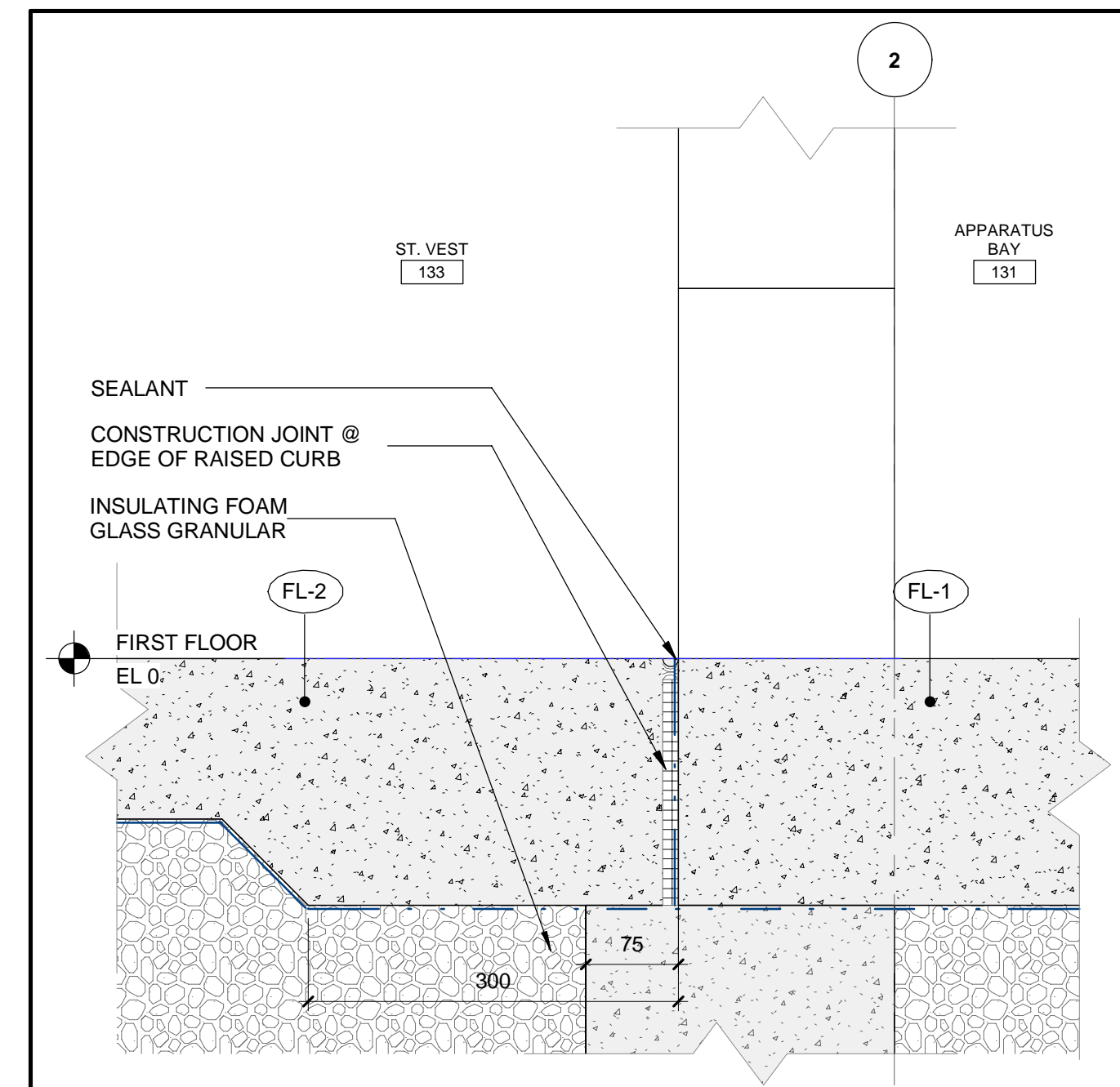
ISSUE / REVISIONS

1	Issued for Building Permit	Mar.21.22
2	Issued for Building Permit Response	Apr.25.22
3	Issued for Tender	Aug.18.22



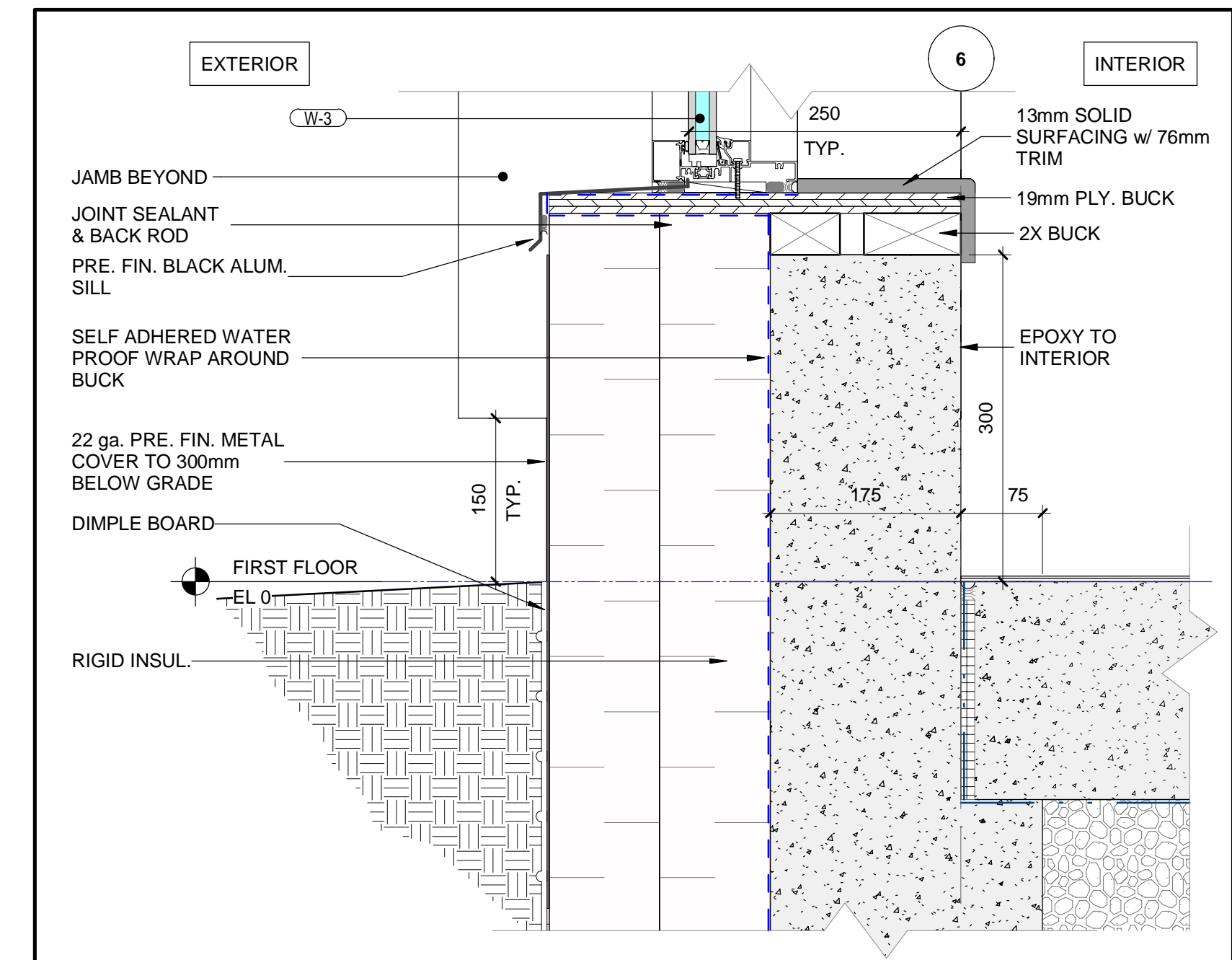
3 SECTION DETAIL - TYP. STUD WALL @ FDN

A-511 REF: A-100 Scale: 1 : 5



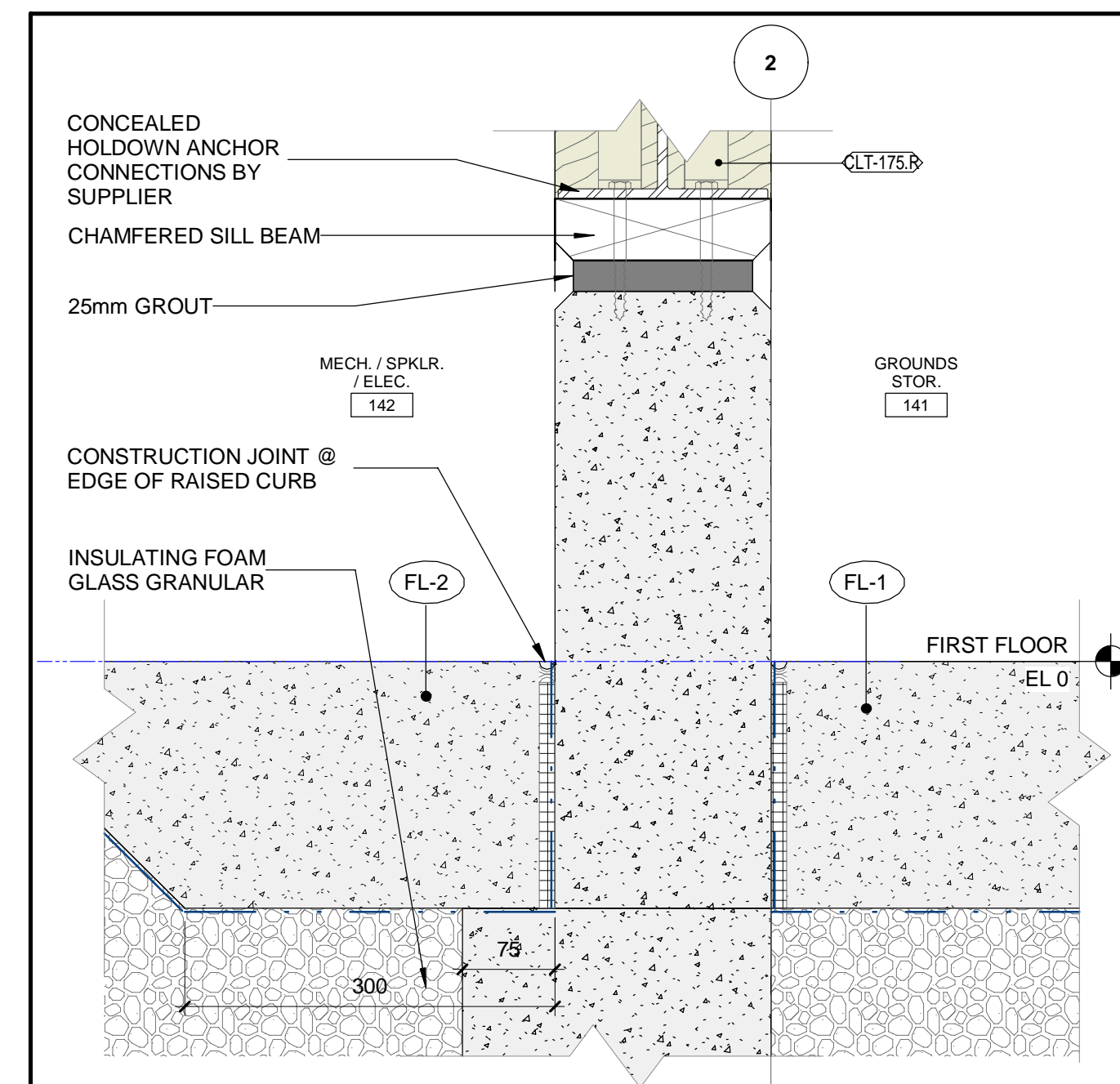
5 SECTION DETAIL - FLOOR OVER POUR INTERIOR CURB

A-511 REF: A-100 Scale: 1 : 5



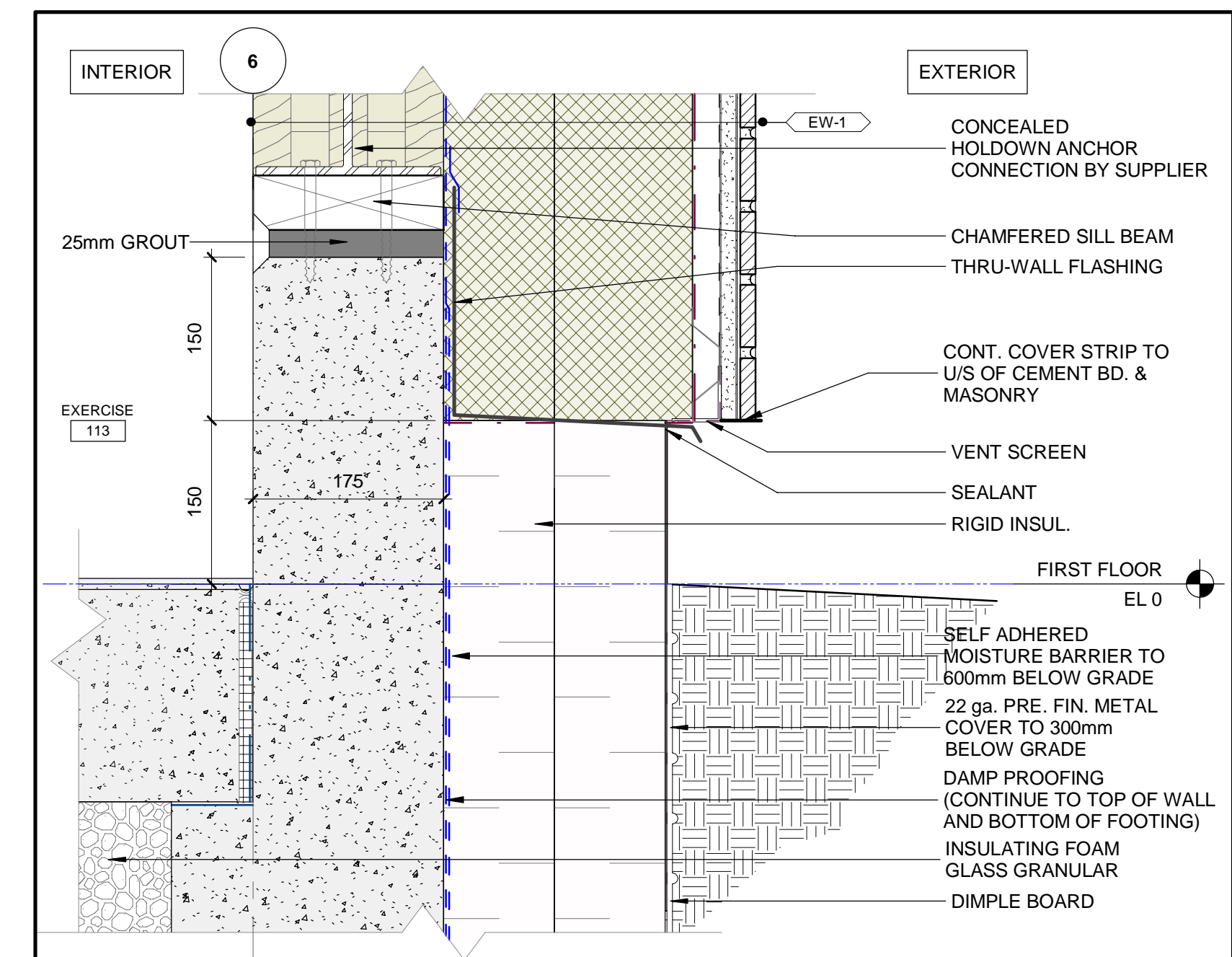
2 SECTION DETAIL - WINDOW SILL WITH CURB @ FDN

A-511 REF: A-100 Scale: 1 : 5



4 SECTION DETAIL - TYP. INTERIOR CLT CURB WALL @ FDN

A-511 REF: A-100 Scale: 1 : 5



1 SECTION DETAIL - TYP. EXTERIOR CLT CURB WALL @ FDN

A-511 REF: A-100 Scale: 1 : 5

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CONSTRUCTION DOCUMENTATION

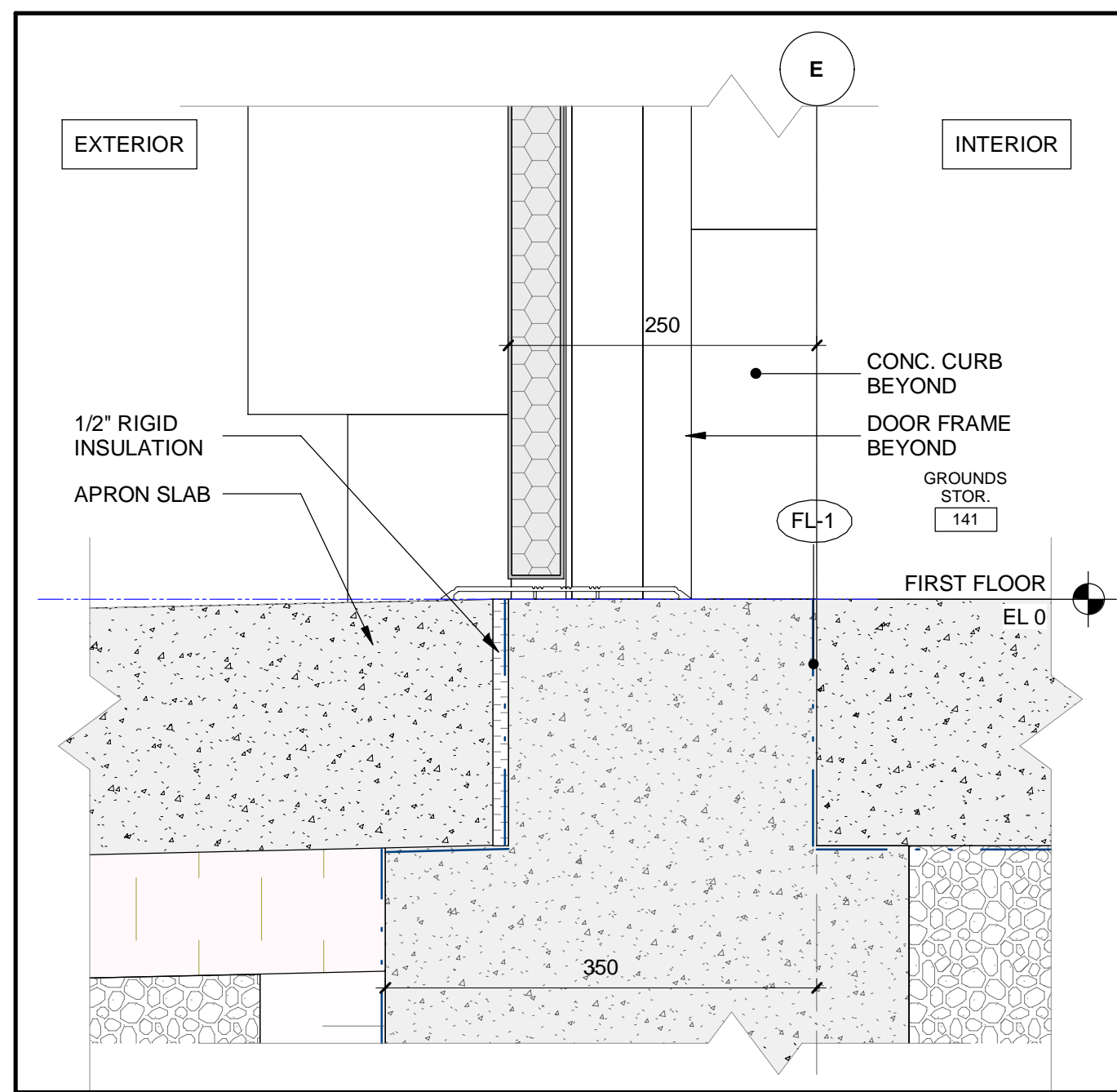
PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

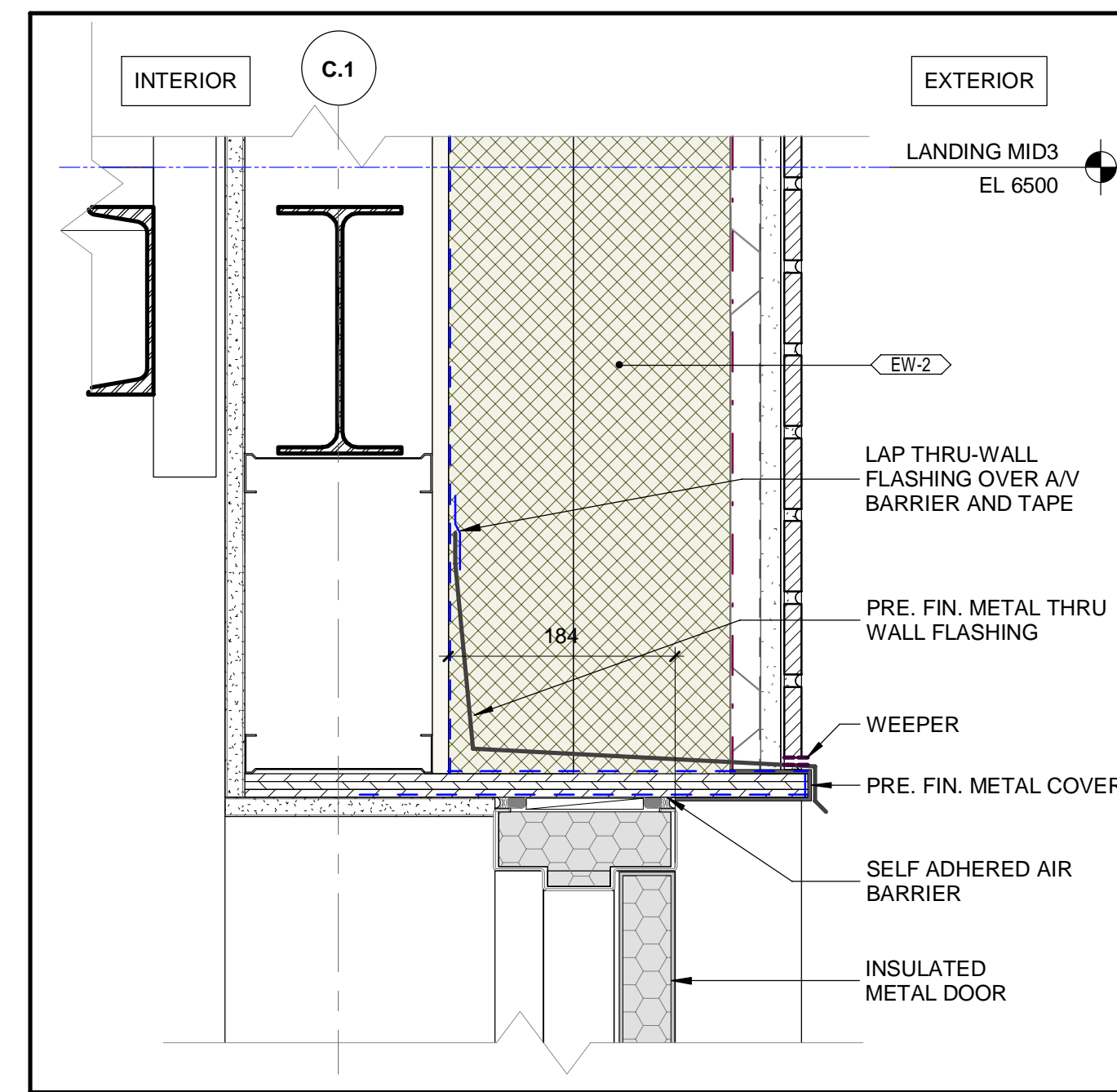
SECTION DETAILS -
FOUNDATION AND
SLAB

A-511



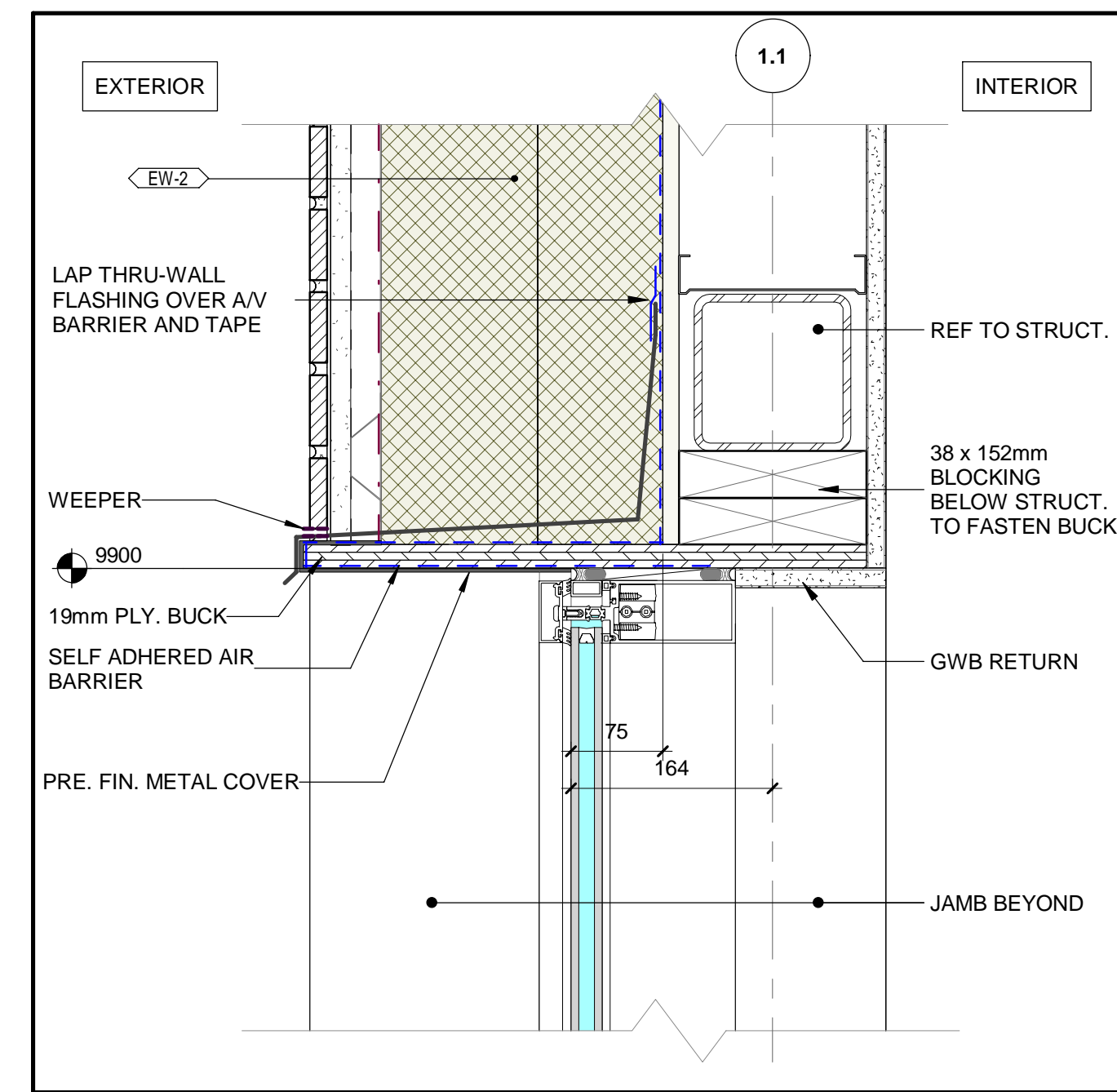
6 SECTION DETAIL - DOOR SILL @ GROUND STORAGE

A-512 REF: A-100 Scale: 1 : 5



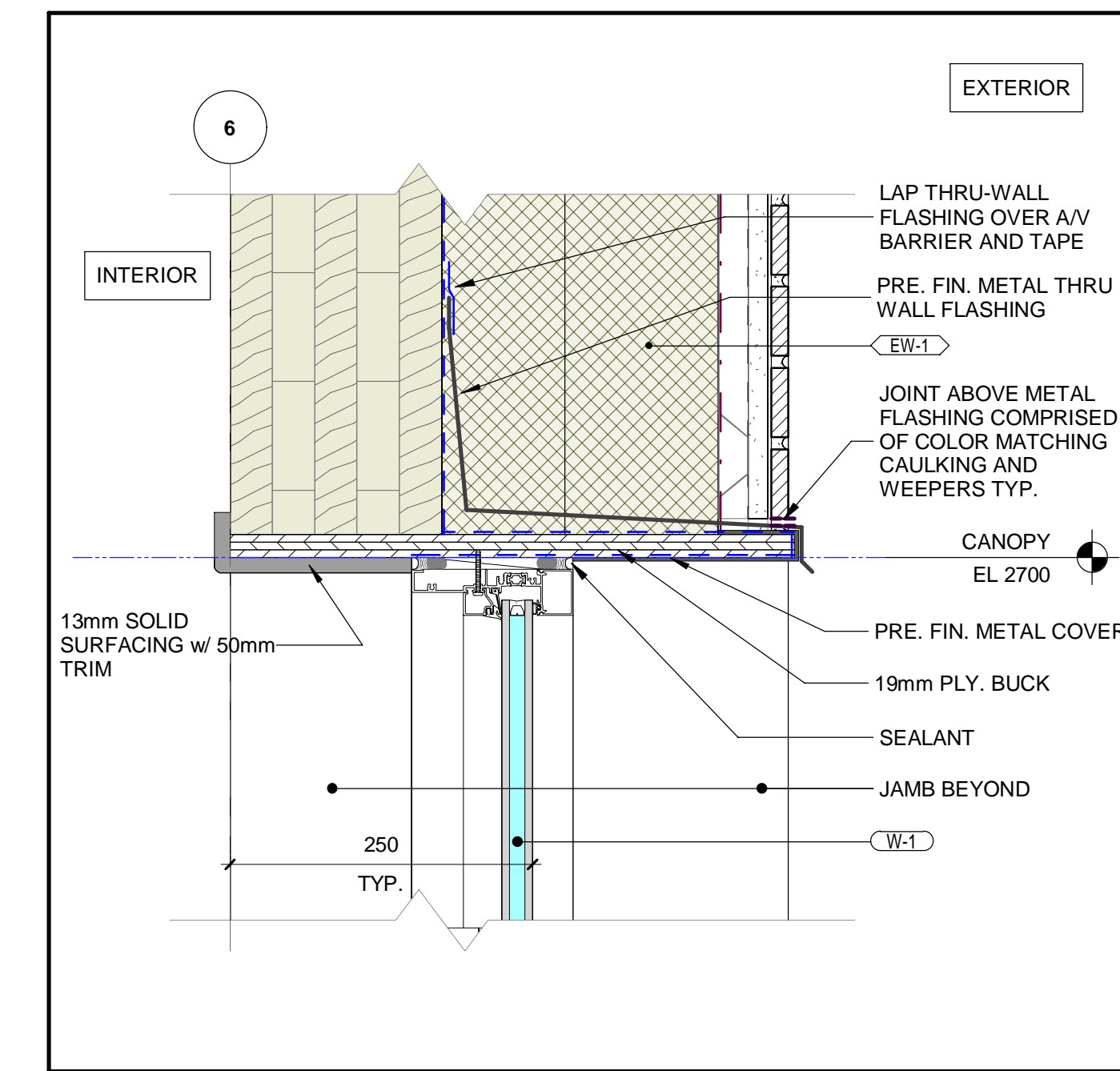
4 SECTION DETAIL - DOOR HEAD @ STEEL STUD WALL

A-512 REF: A-402.1 Scale: 1 : 5



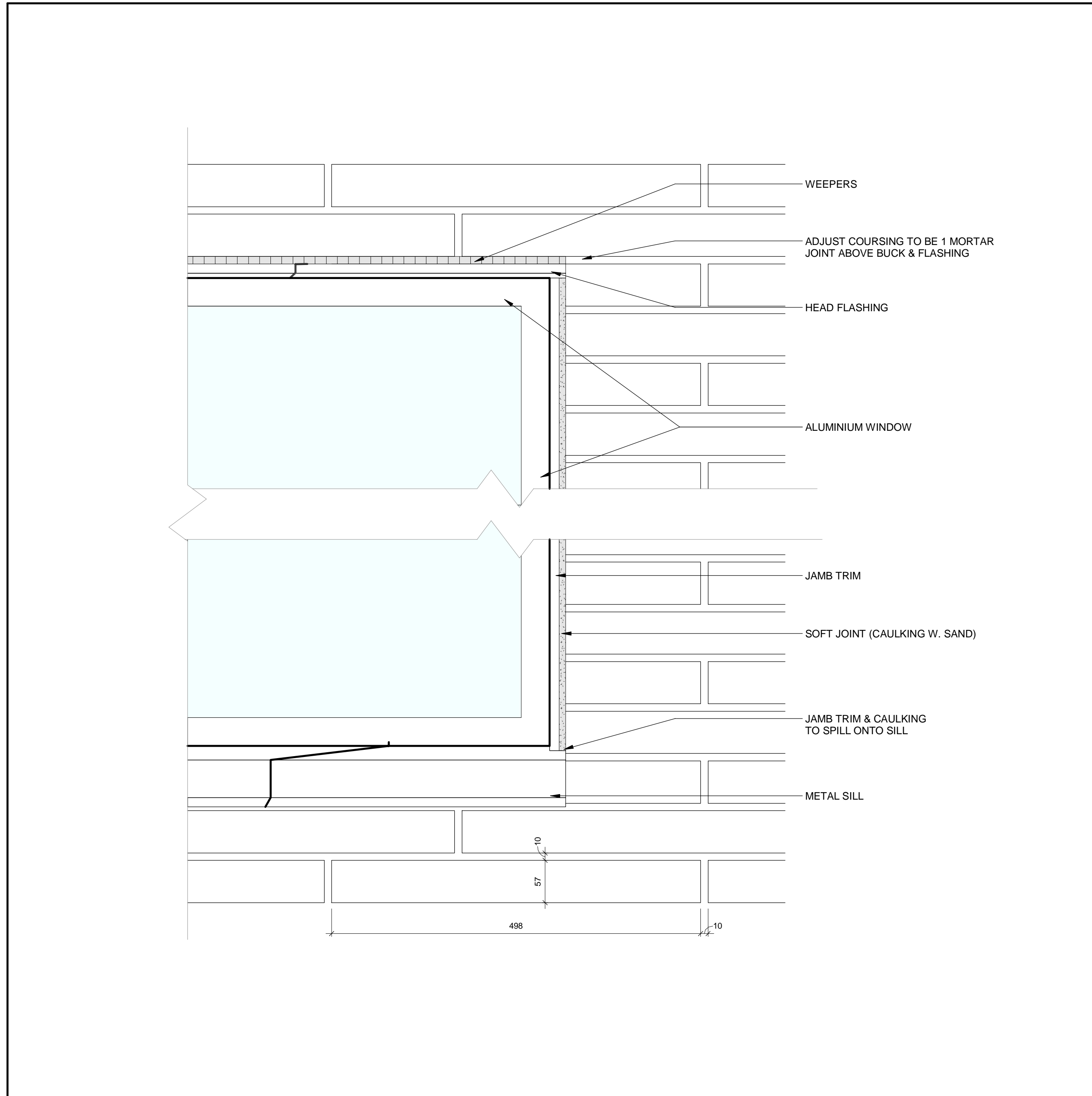
9 SECTION DETAIL - CURTAIN WALL HEAD @ STEEL STUD WAL

A-512 REF: A-402.1 Scale: 1 : 5



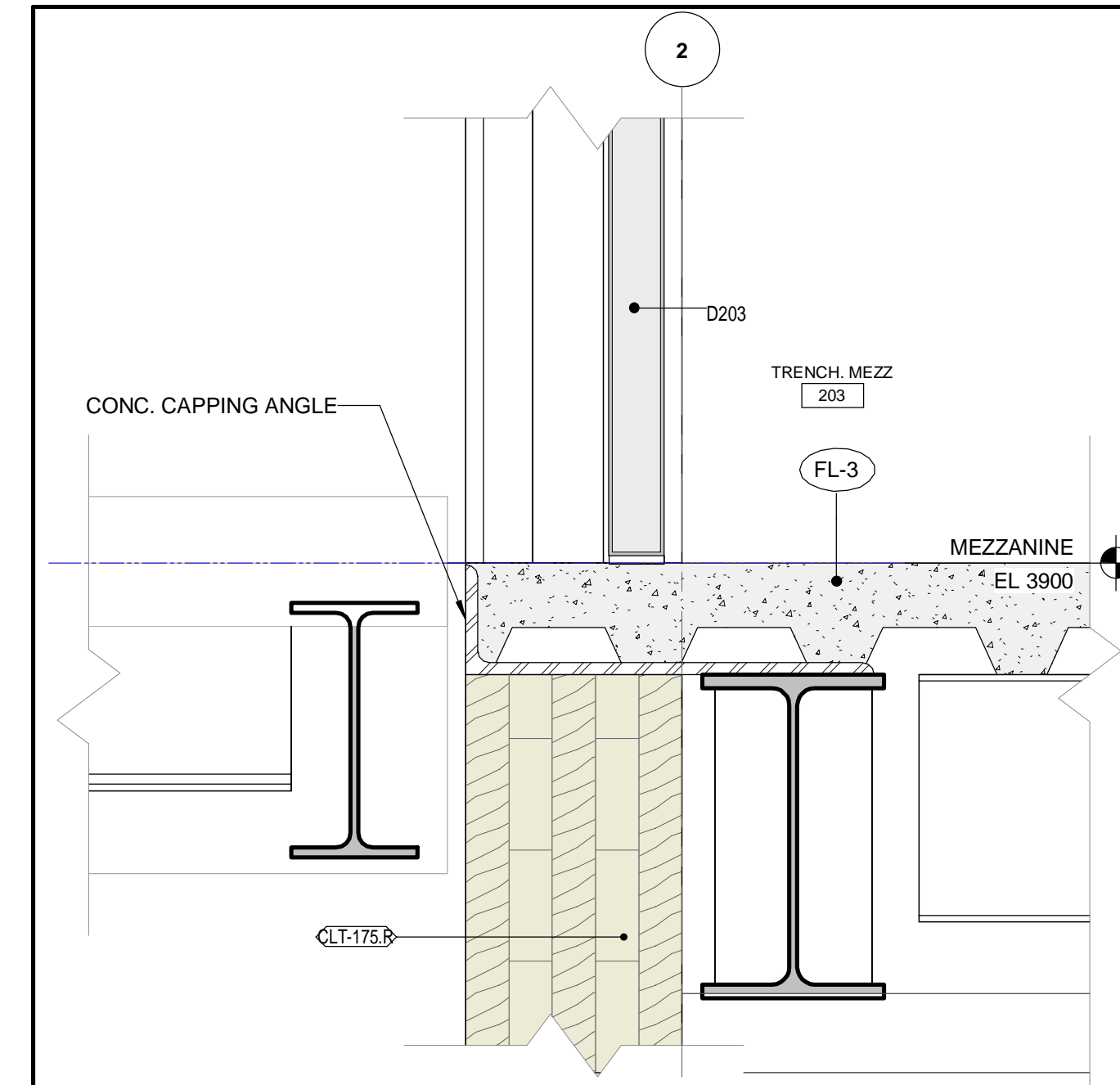
3 SECTION DETAIL - WINDOW HEAD @ BRICK CLT WALL

A-512 REF: A-313 Scale: 1 : 5



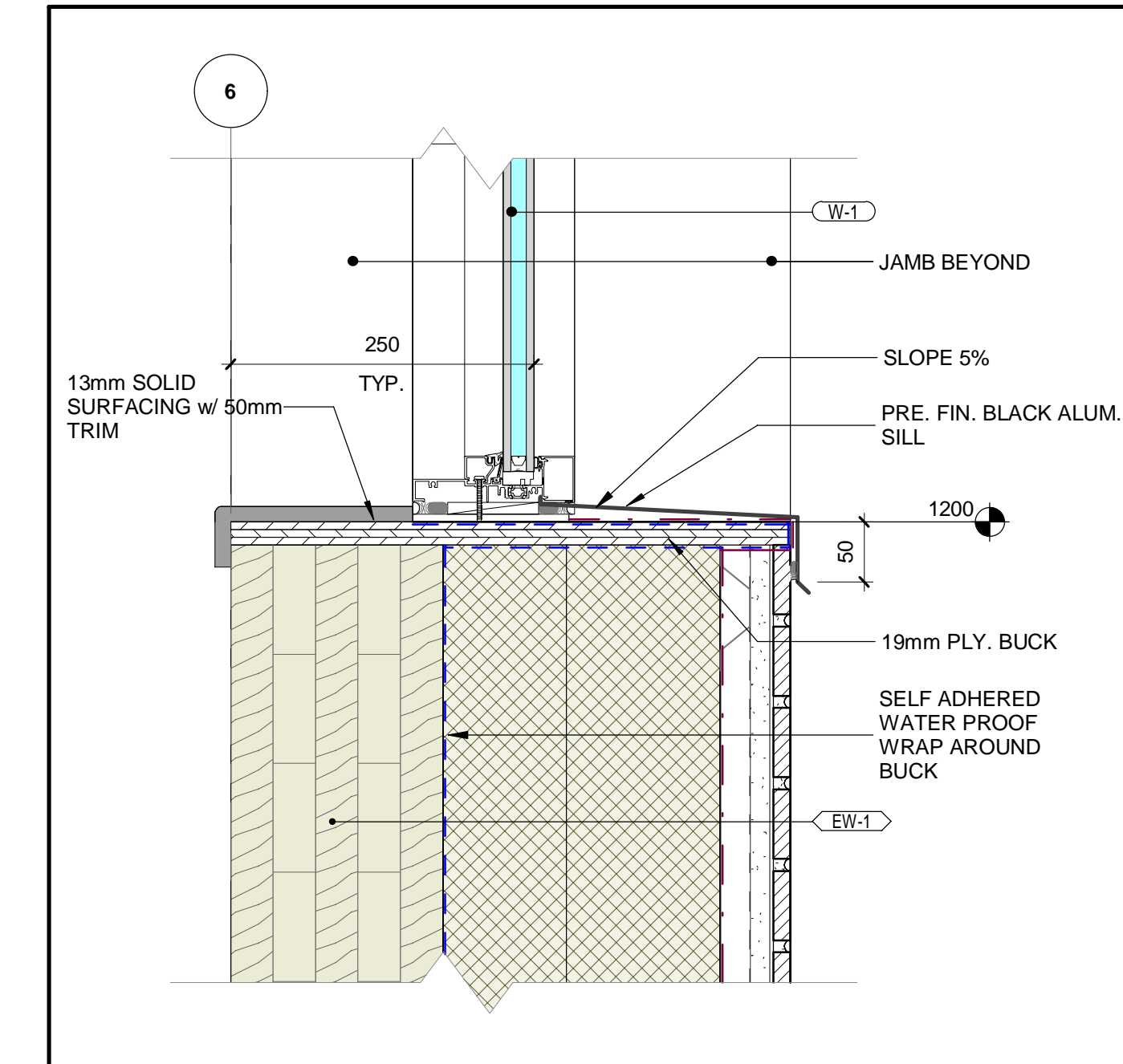
10 ELEVATION DETAIL - TYP. WINDOW TRIM

A-512 REF: A-201 Scale: 1 : 4



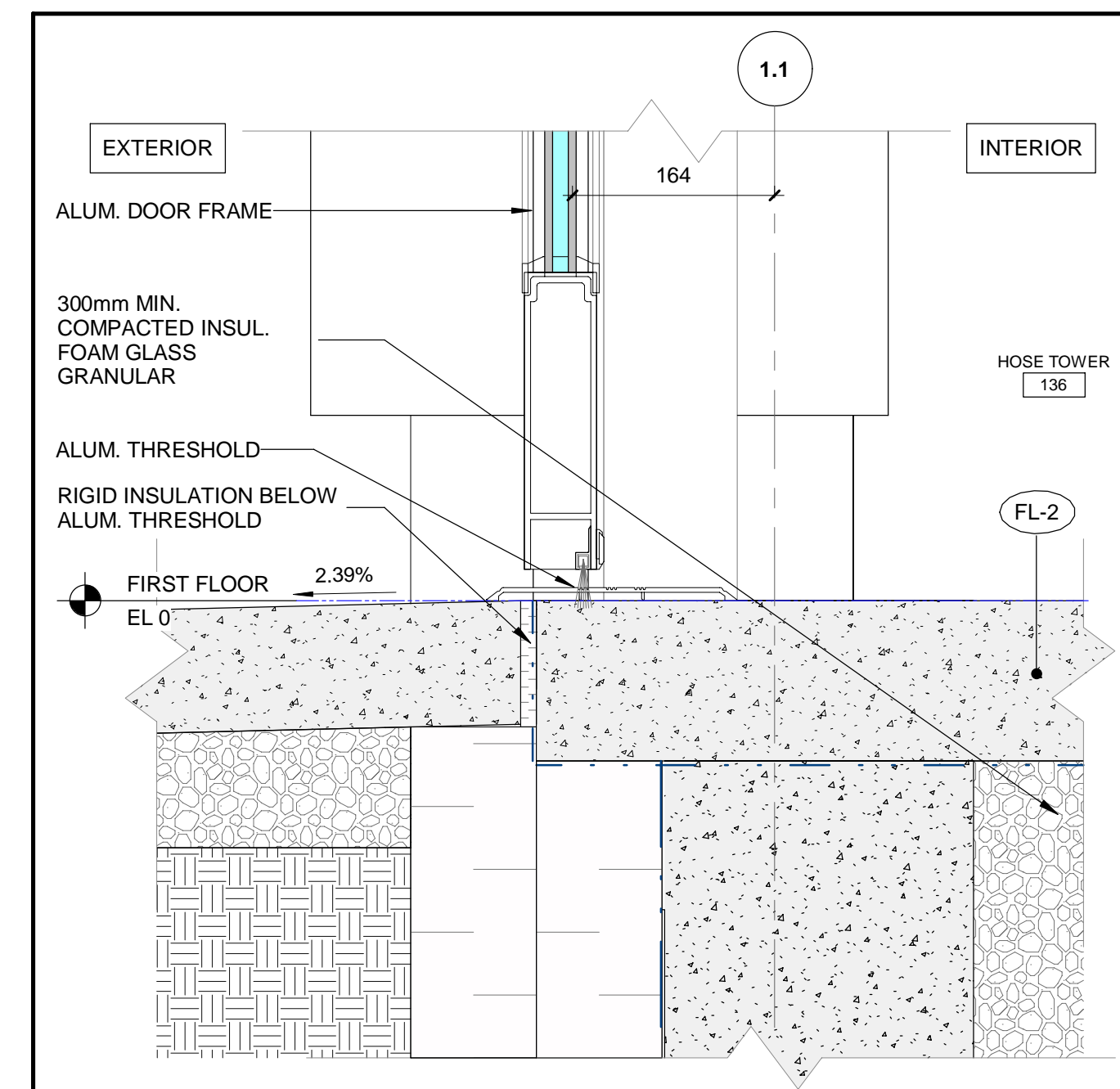
7 SECTION DETAIL - DOOR SILL @ METAL DECK FLOOR

A-512 REF: A-402.2 Scale: 1 : 5



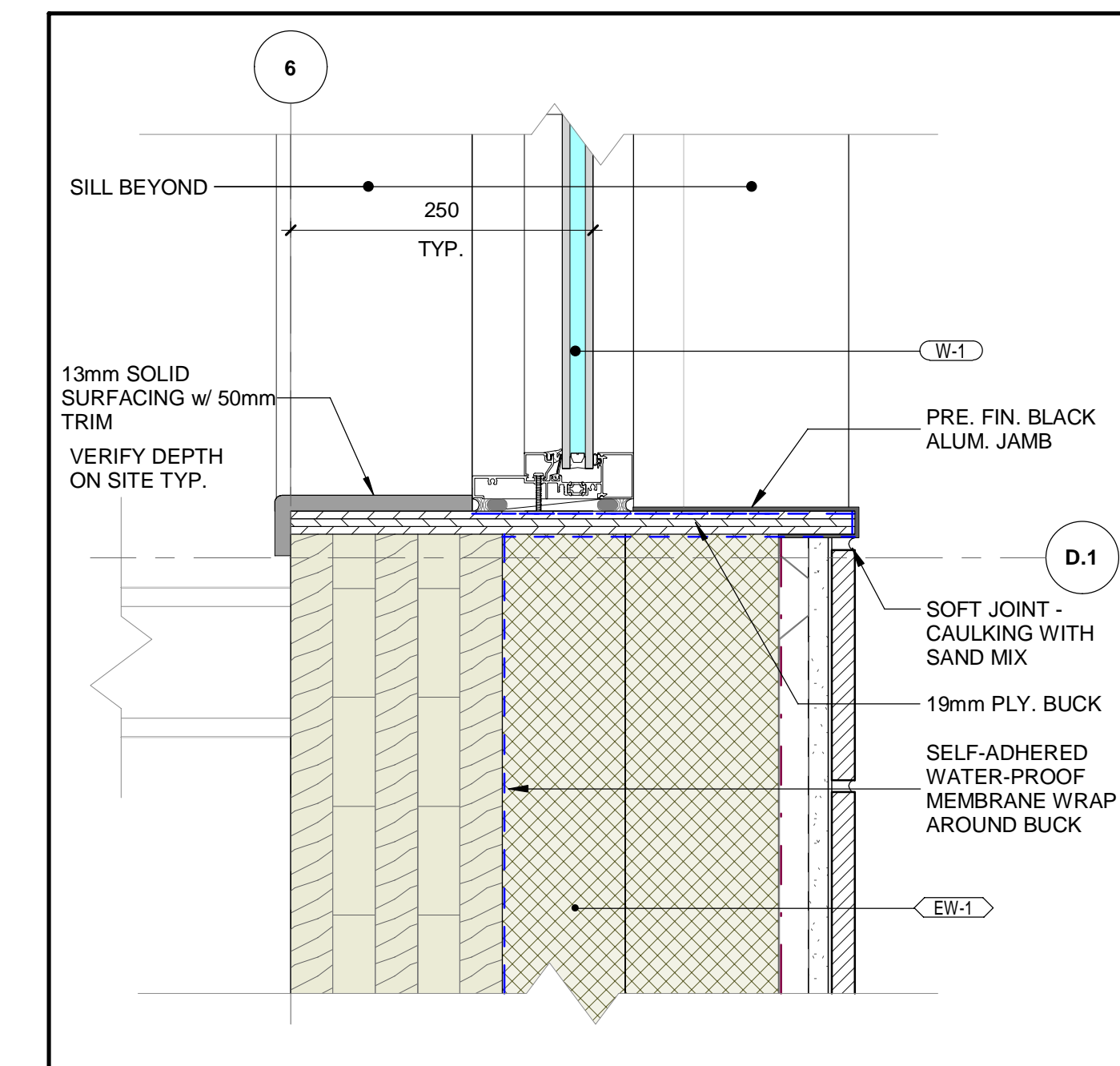
2 SECTION DETAIL - WINDOW SILL @ BRICK CLT WALL

A-512 REF: A-313 Scale: 1 : 5



5 SECTION DETAIL - DOOR SILL @ HOSE TOWER EXIT

A-512 REF: A-100 Scale: 1 : 5



1 PLAN DETAIL - WINDOW JAMB @ BRICK CLT WALL

A-512 REF: A-101 Scale: 1 : 5

ISSUE / REVISIONS

1	Issued for Building Permit	Mar.21.22
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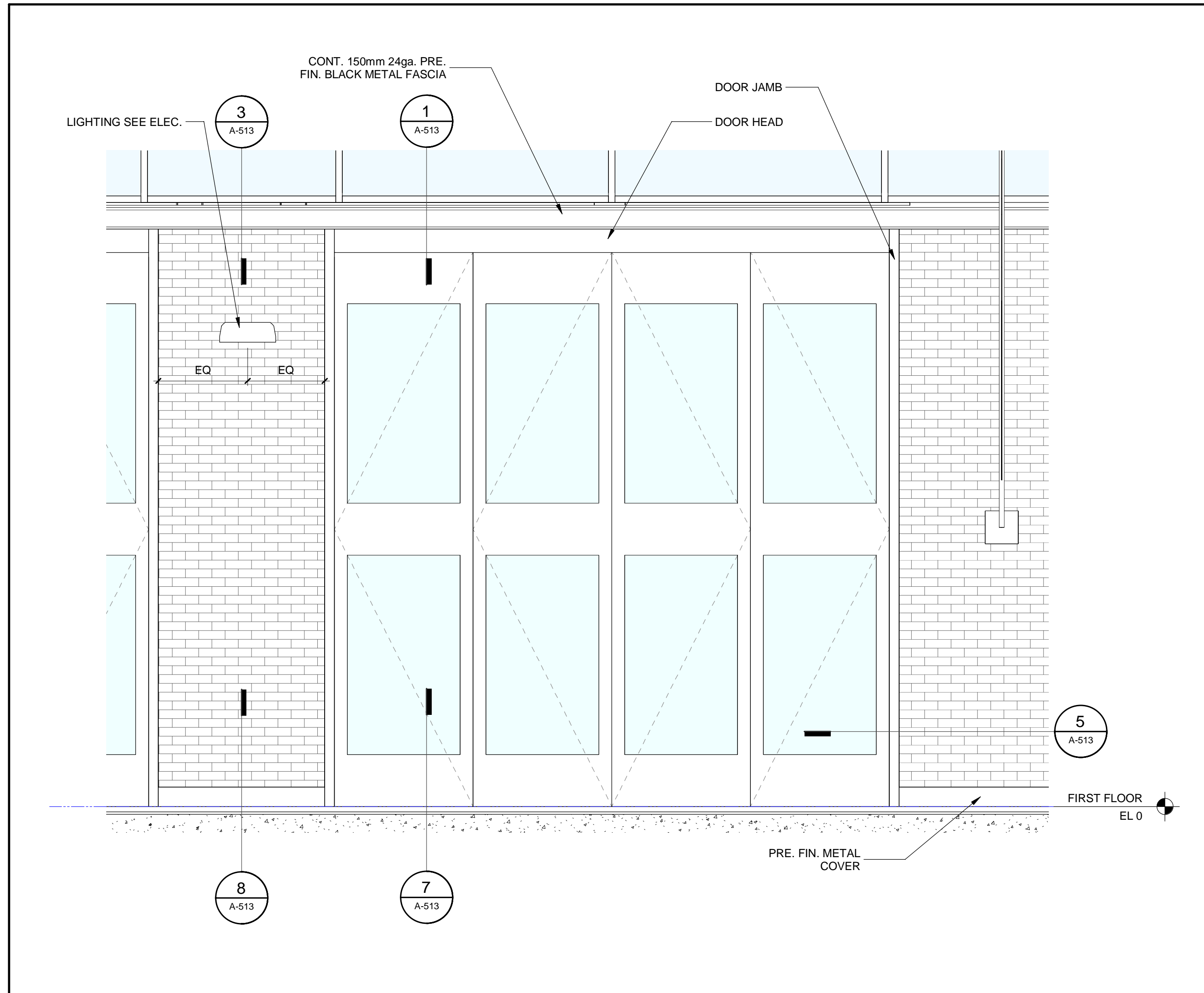
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CONSTRUCTION DOCUMENTATION
PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

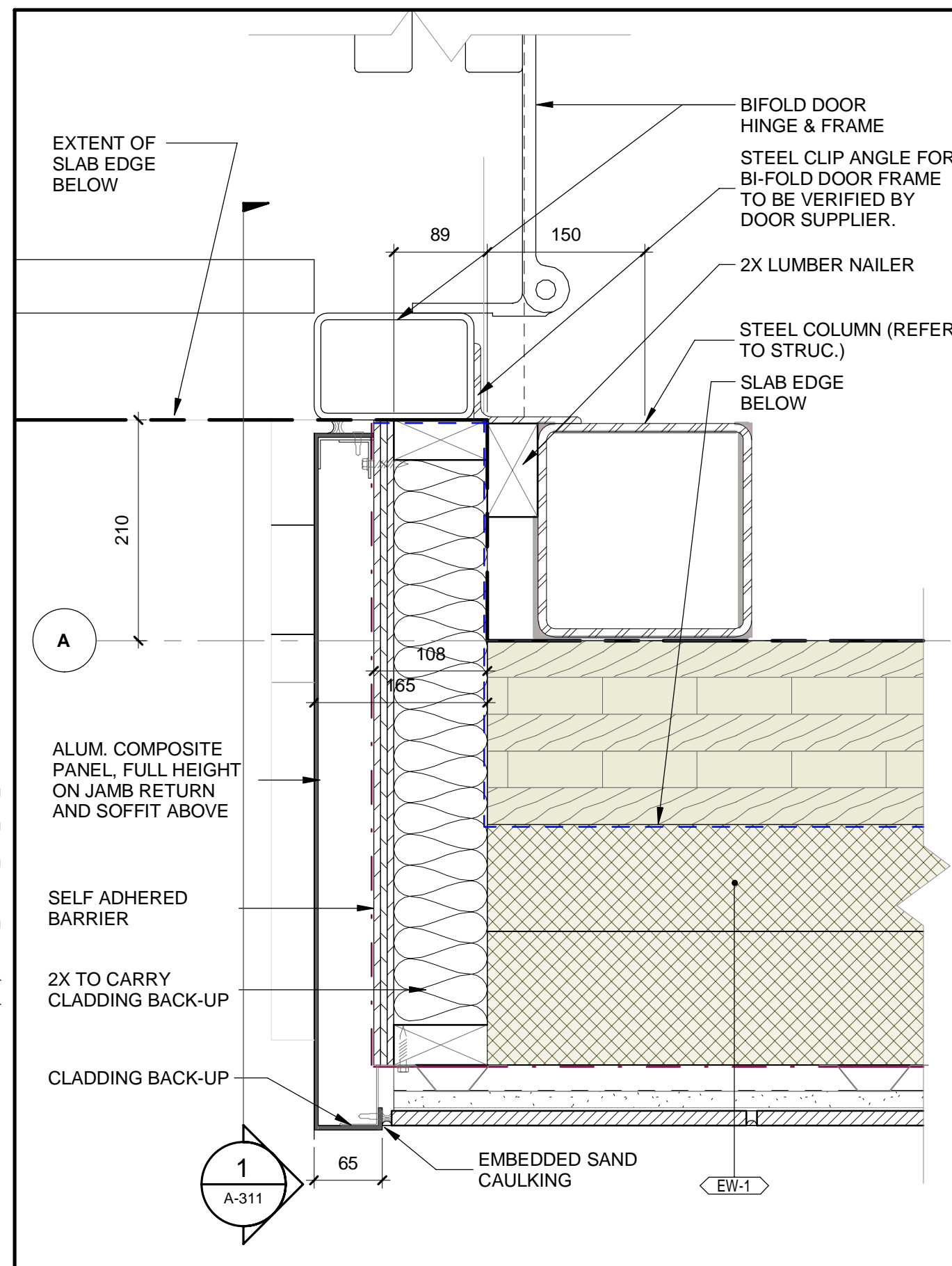
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

DETAILS - OPENINGS



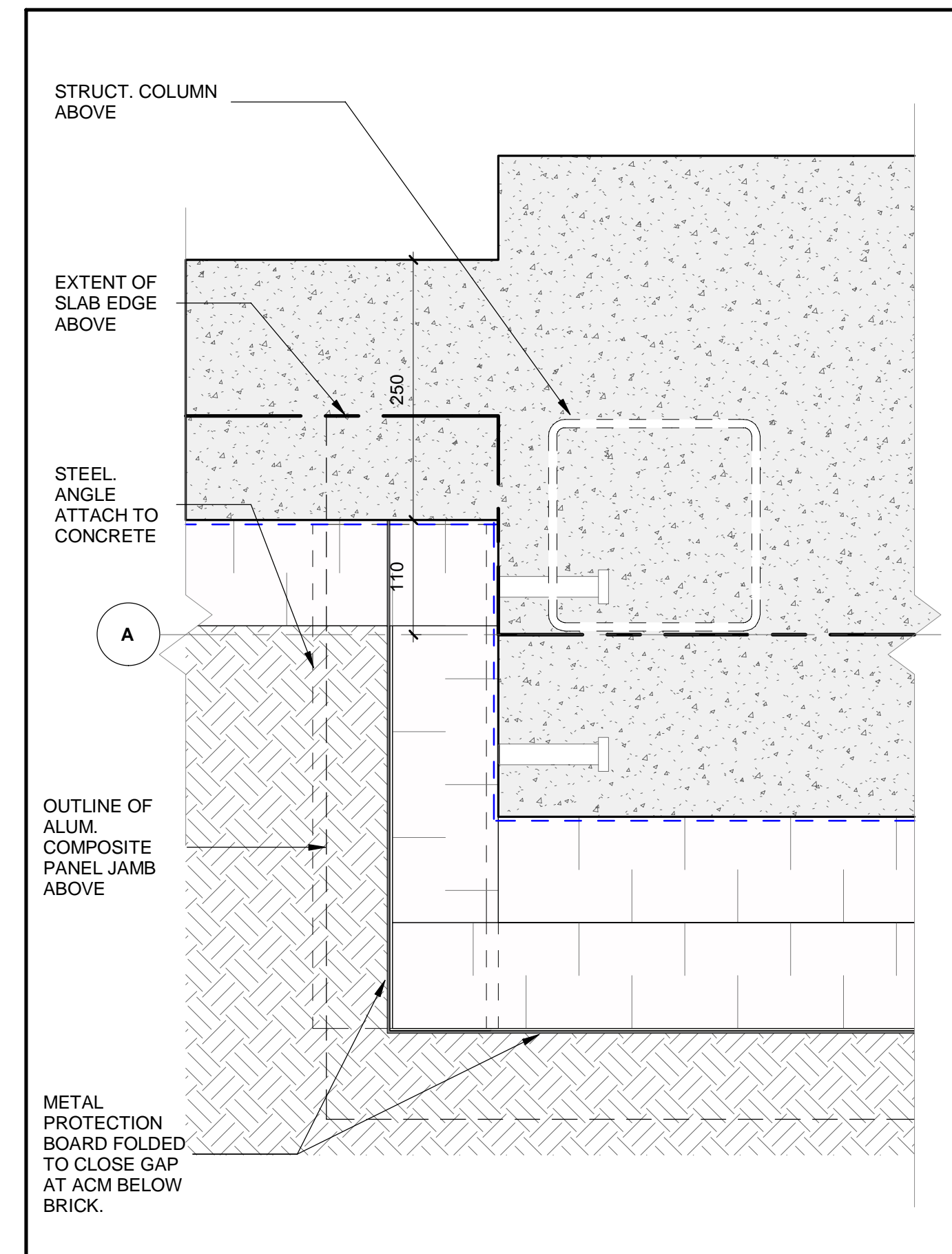
4 ENLARGED ELEVATION - BI FOLD DOOR

A-513 REF: A-201 Scale: 1 : 25



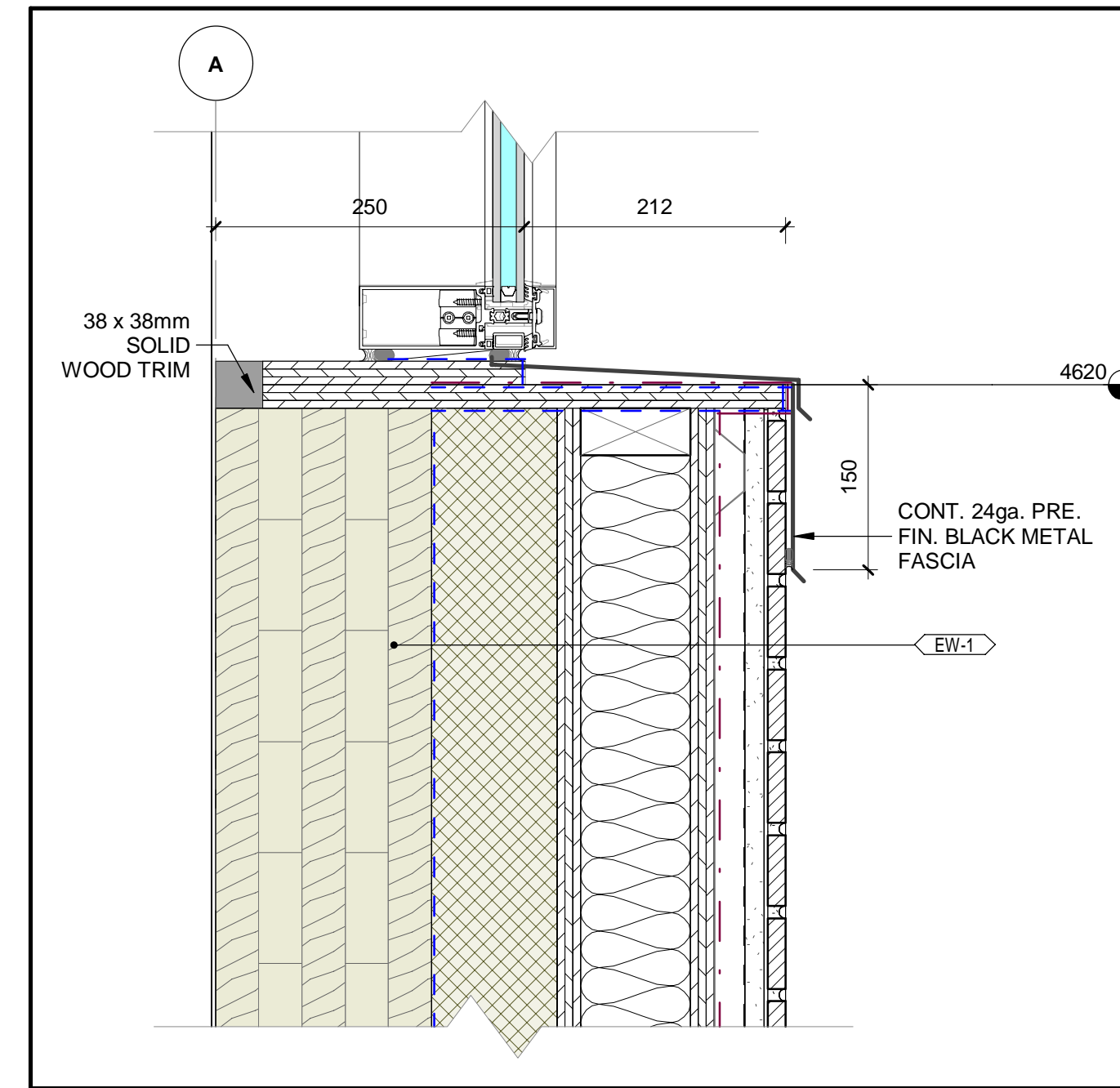
5 PLAN DETAIL - BI FOLD DOOR JAMB

A-513 REF: A-101 Scale: 1 : 5



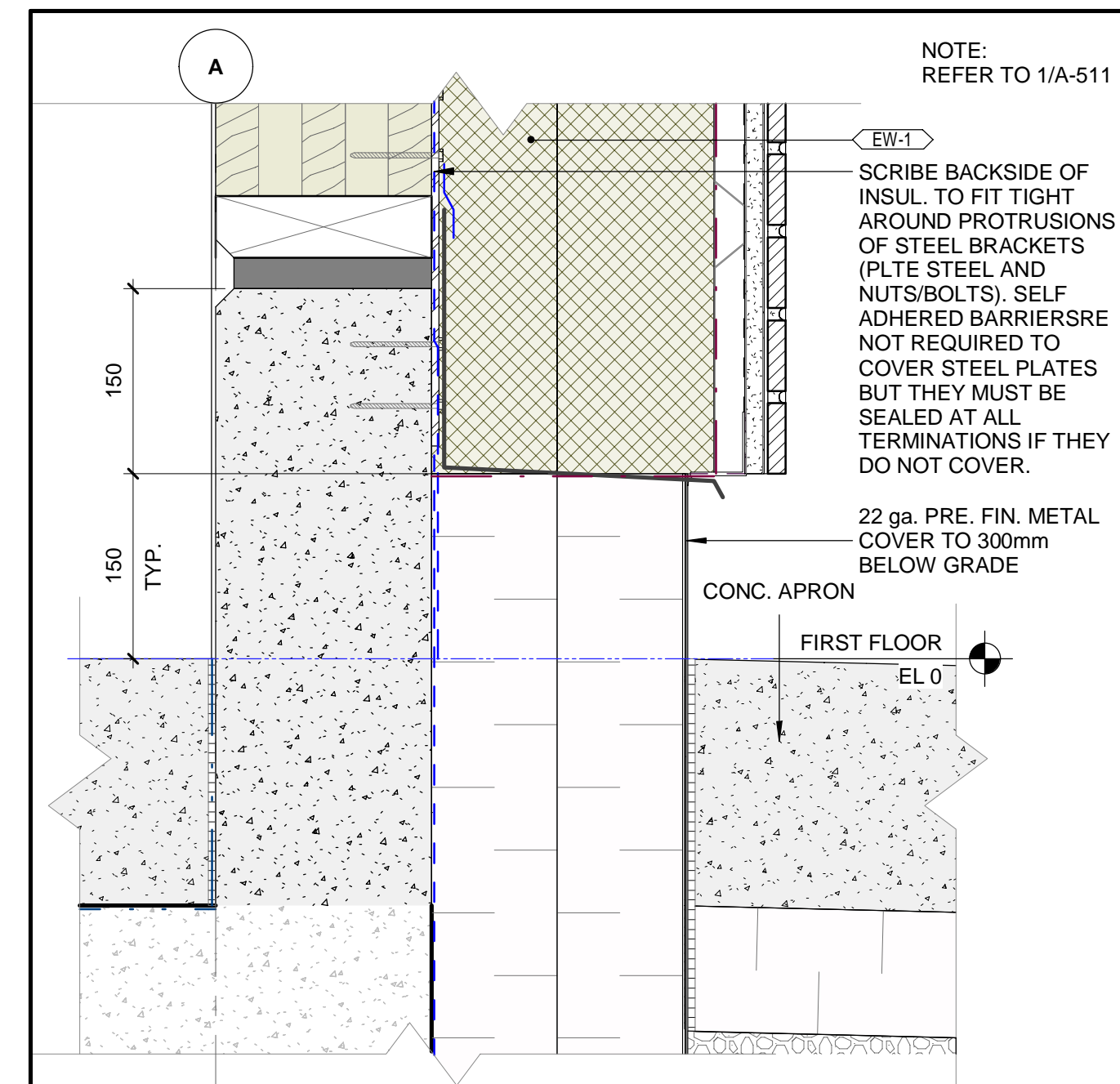
6 PLAN DETAIL - BI FOLD DOOR JAMB @ FDN

A-513 REF: A-100 Scale: 1 : 5



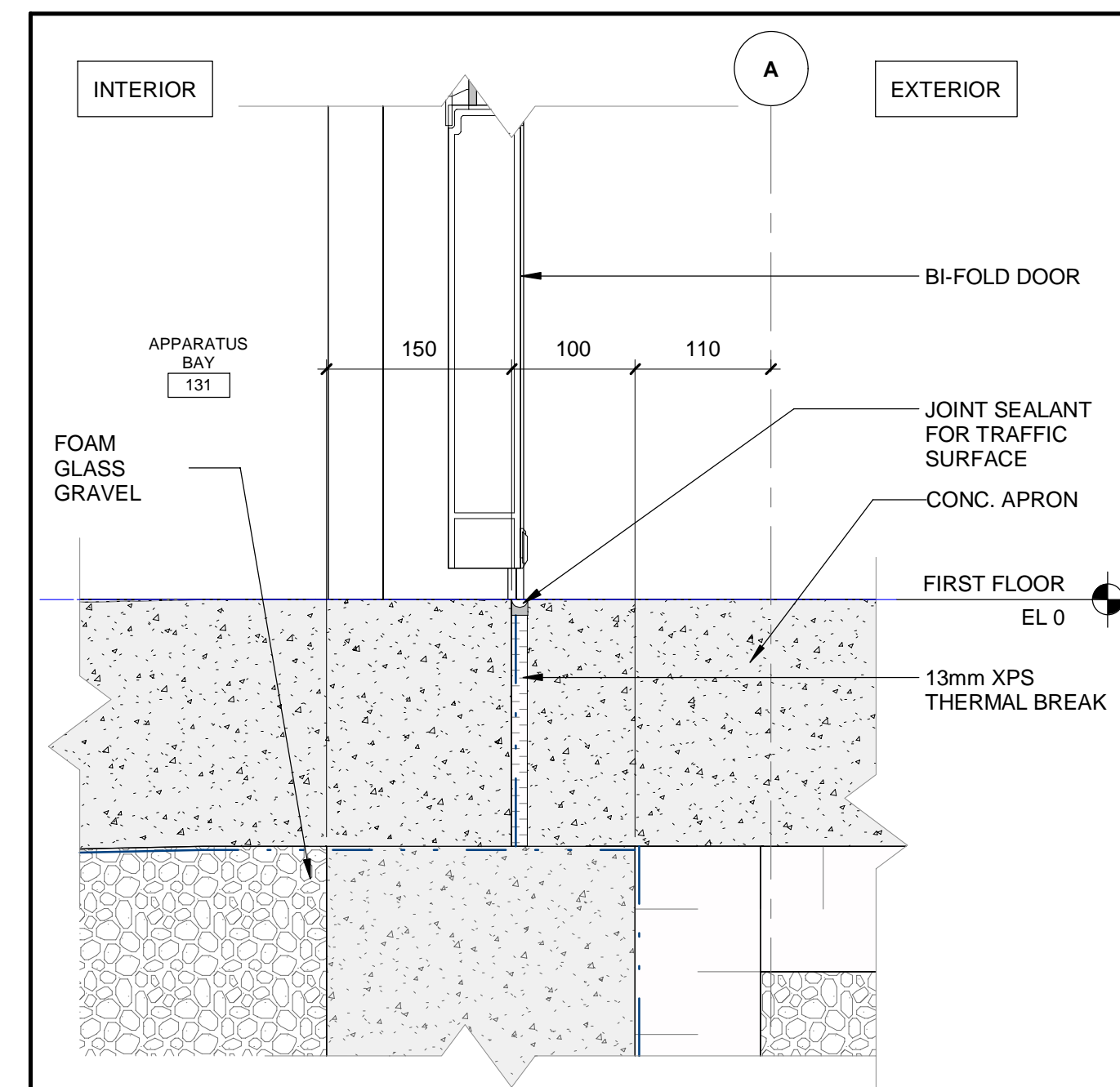
3 SECTION DETAIL - WINDOW SILL BETWEEN APPARATUS DOORS

A-513 REF: A-312 Scale: 1 : 5



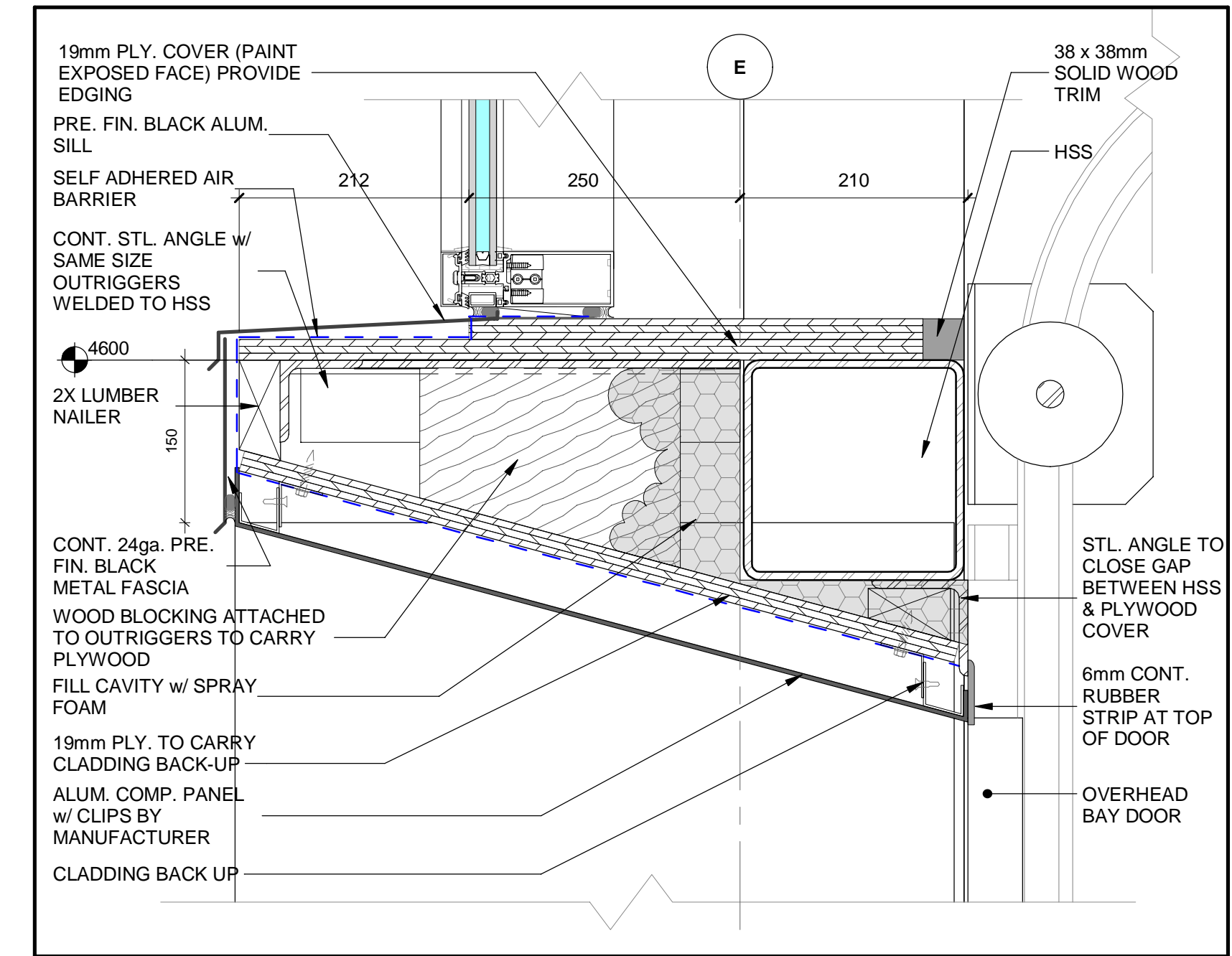
8 SECTION DETAIL - WALL BETWEEN APPARATUS DOORS @ FDN

A-513 REF: A-100 Scale: 1 : 5



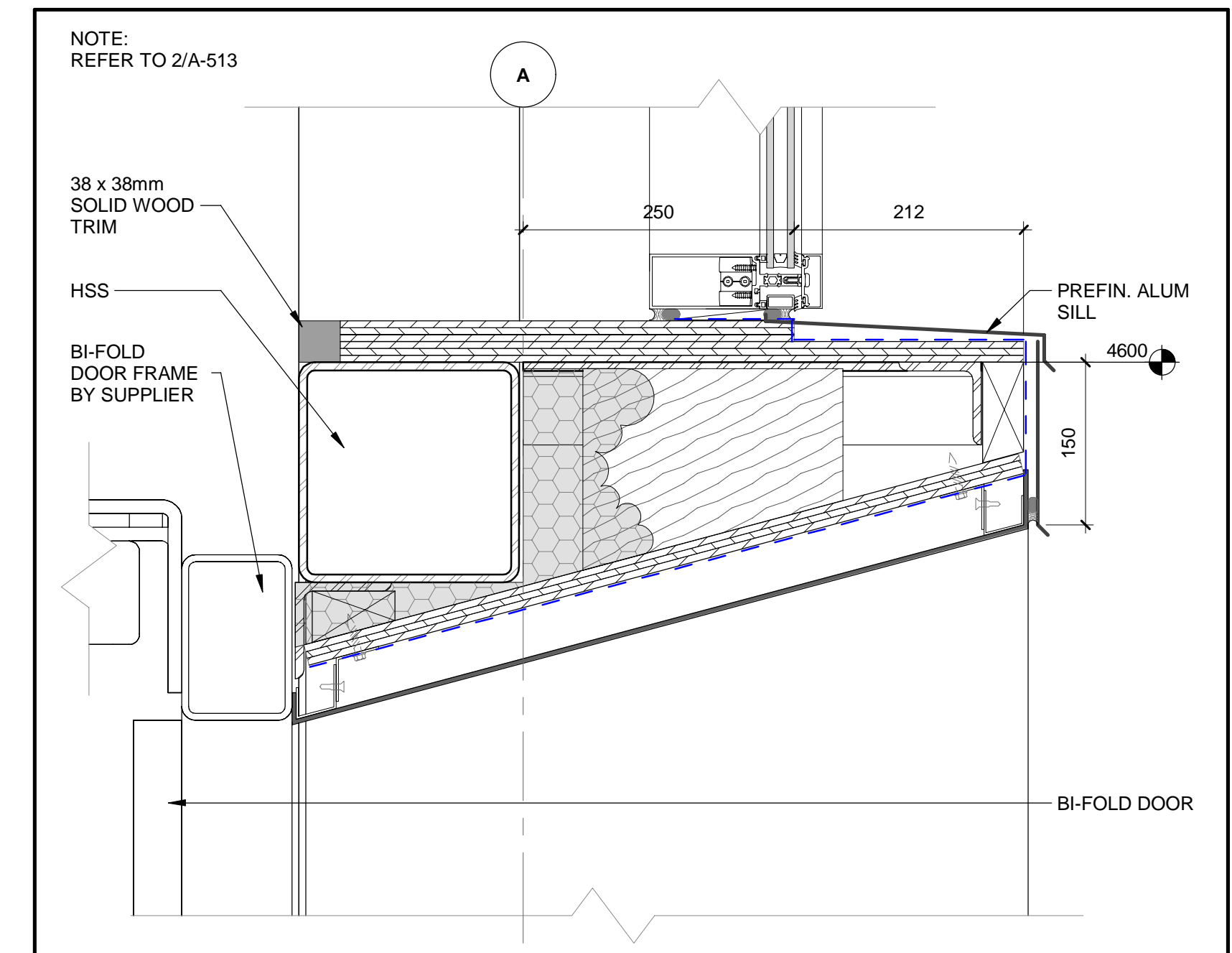
7 SECTION DETAIL - BI FOLD DOOR SILL @ APRON SLAB

A-513 REF: A-100 Scale: 1 : 5



2 SECTION DETAIL - OVERHEAD DOOR HEAD WITH WINDOW SILL

A-513 REF: A-312 Scale: 1 : 5



1 SECTION DETAIL - BI FOLD DOOR HEAD WITH WINDOW SILL

A-513 REF: A-311 Scale: 1 : 5

ISSUE / REVISIONS

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CONSTRUCTION DOCUMENTATION

PROJECT No. 21-100
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City of Peterborough
FIRE STATION NO. 2

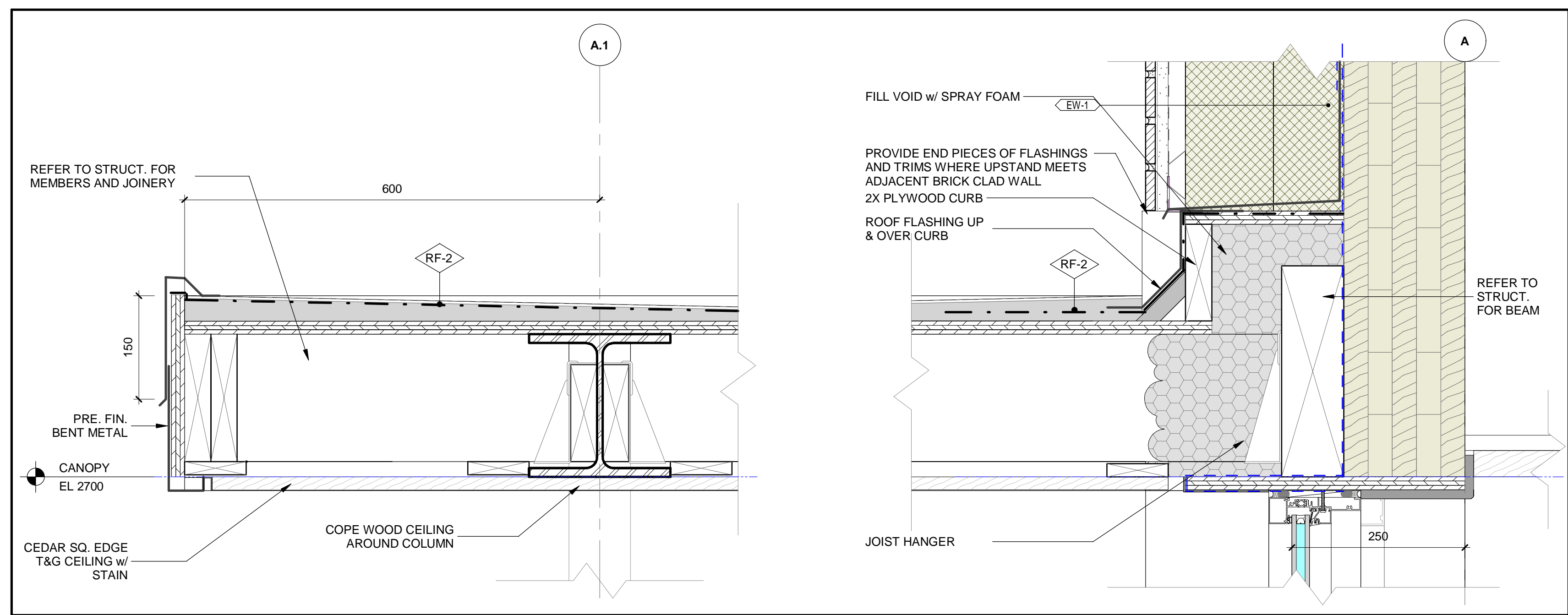
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

DETAILS -
BIFOLD/OVERHEAD
DOORS

A-513

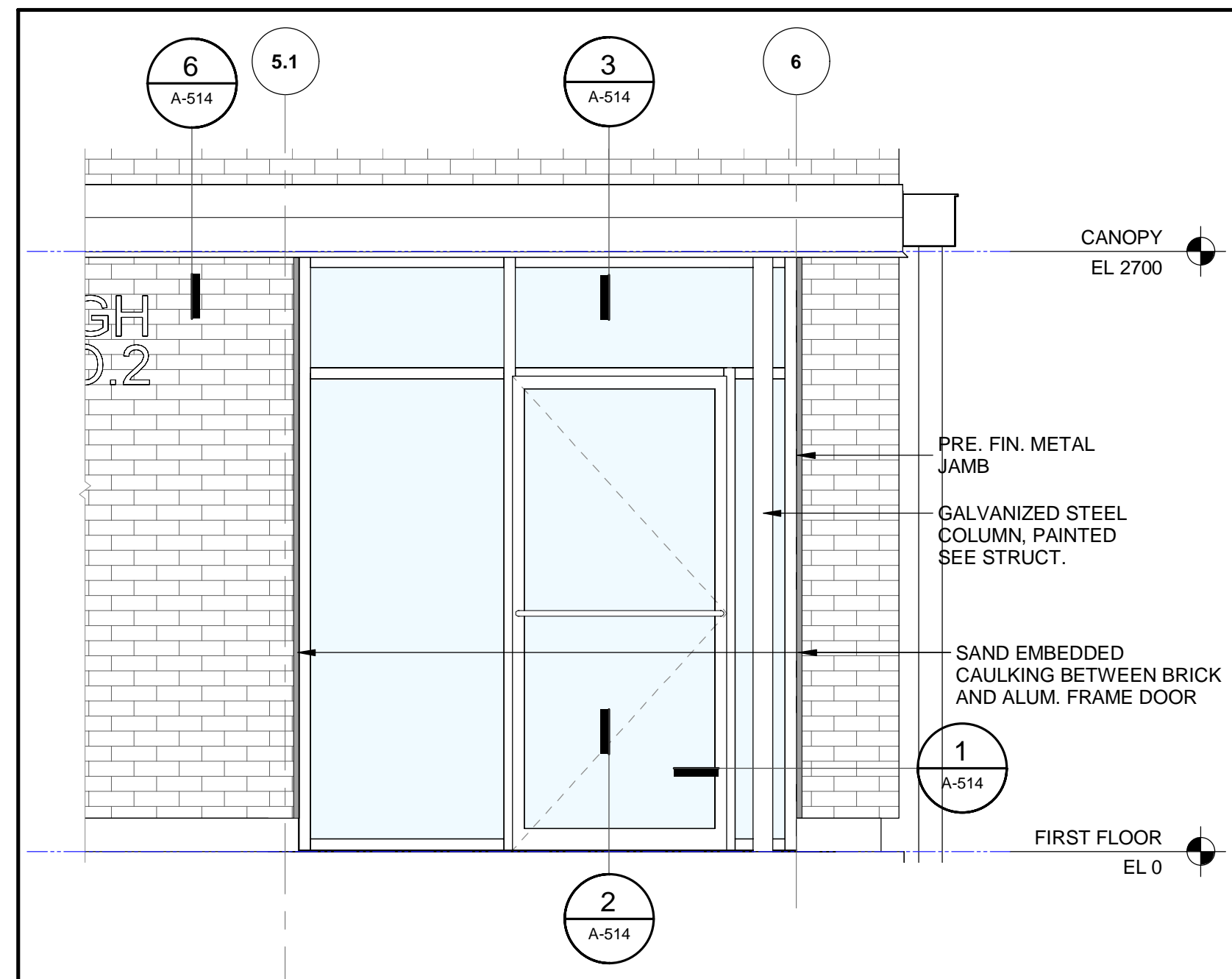
ISSUE / REVISIONS

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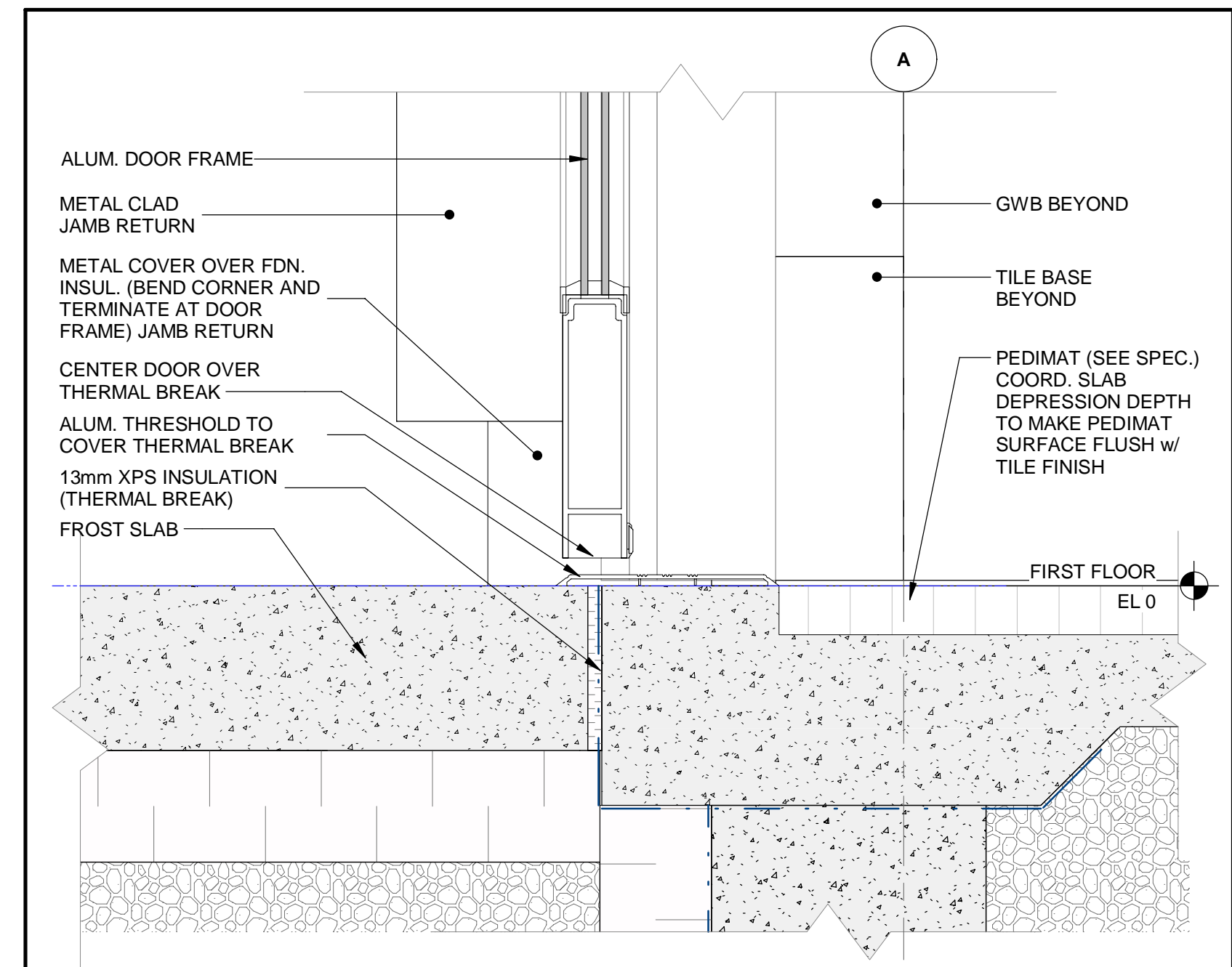


6 SECTION DETAIL - CANOPY A

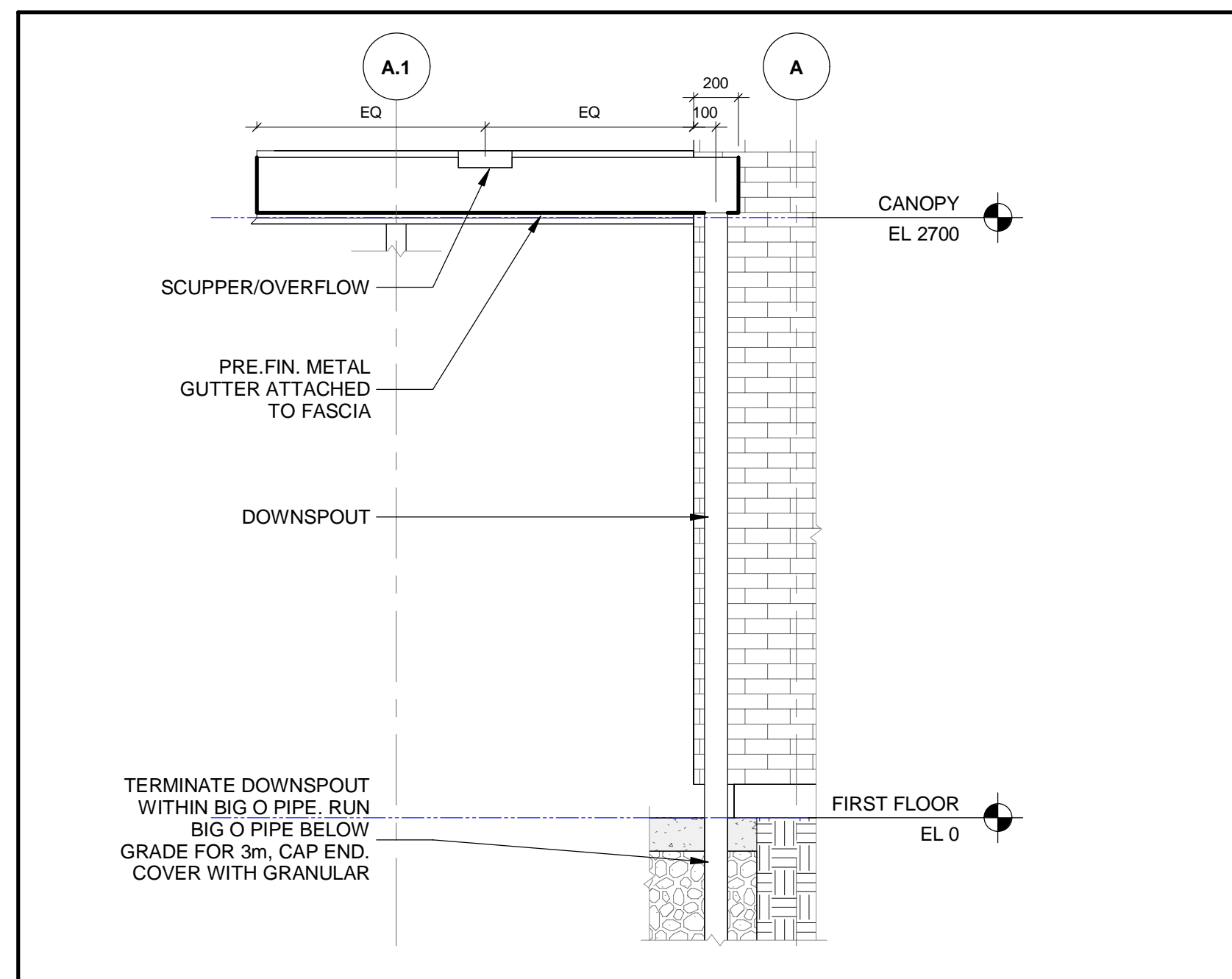
3 SECTION DETAIL - CANOPY B



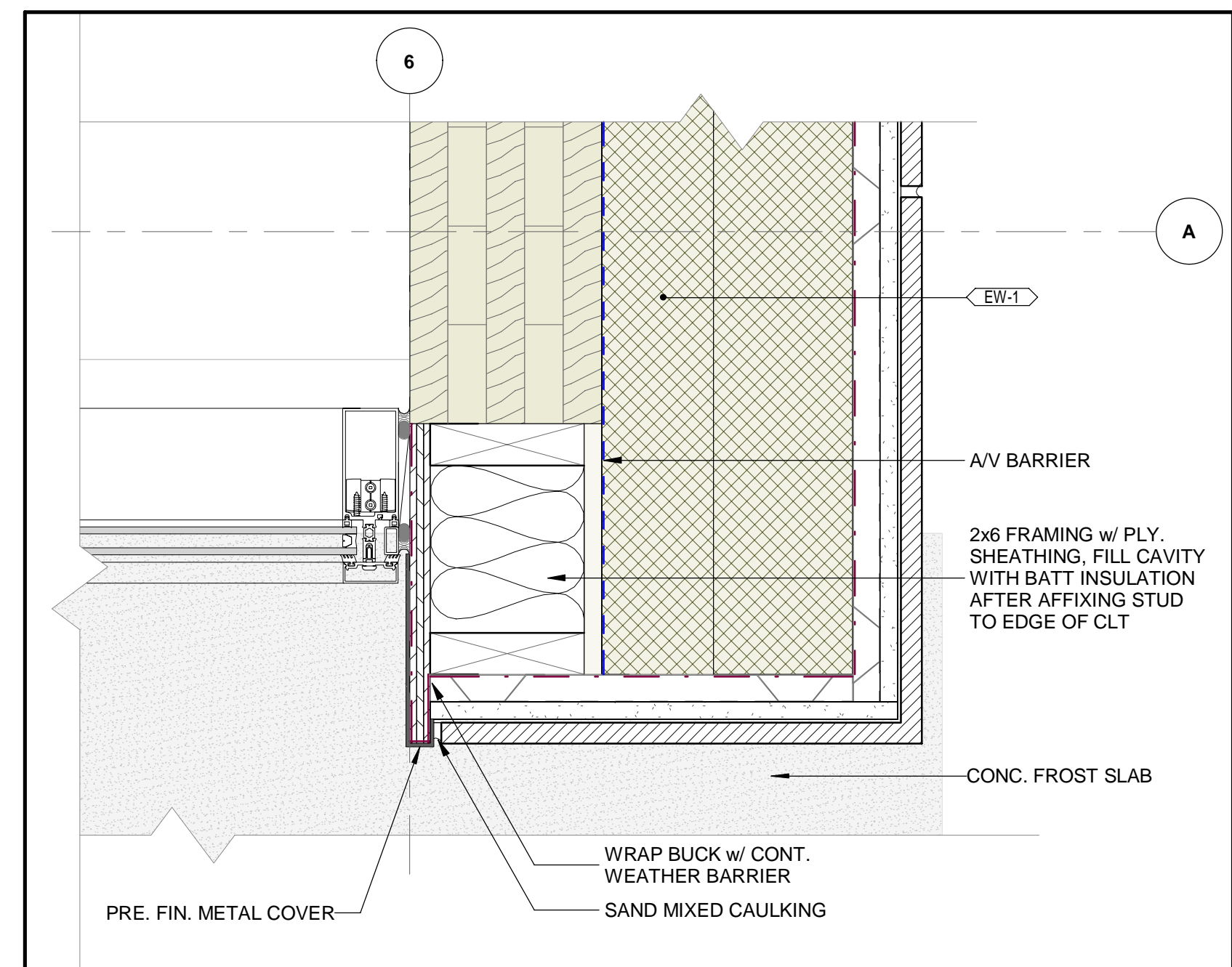
5 ENLARGED ELEVATION - ENTRY AND CANOPY



2 SECTION DETAIL - ENTRNCE DOOR @ FROST SLAB



4 DETAIL - CANOPY ROOF DRAIN



1 PLAN DETAIL - ENTRANCE DOOR JAMB



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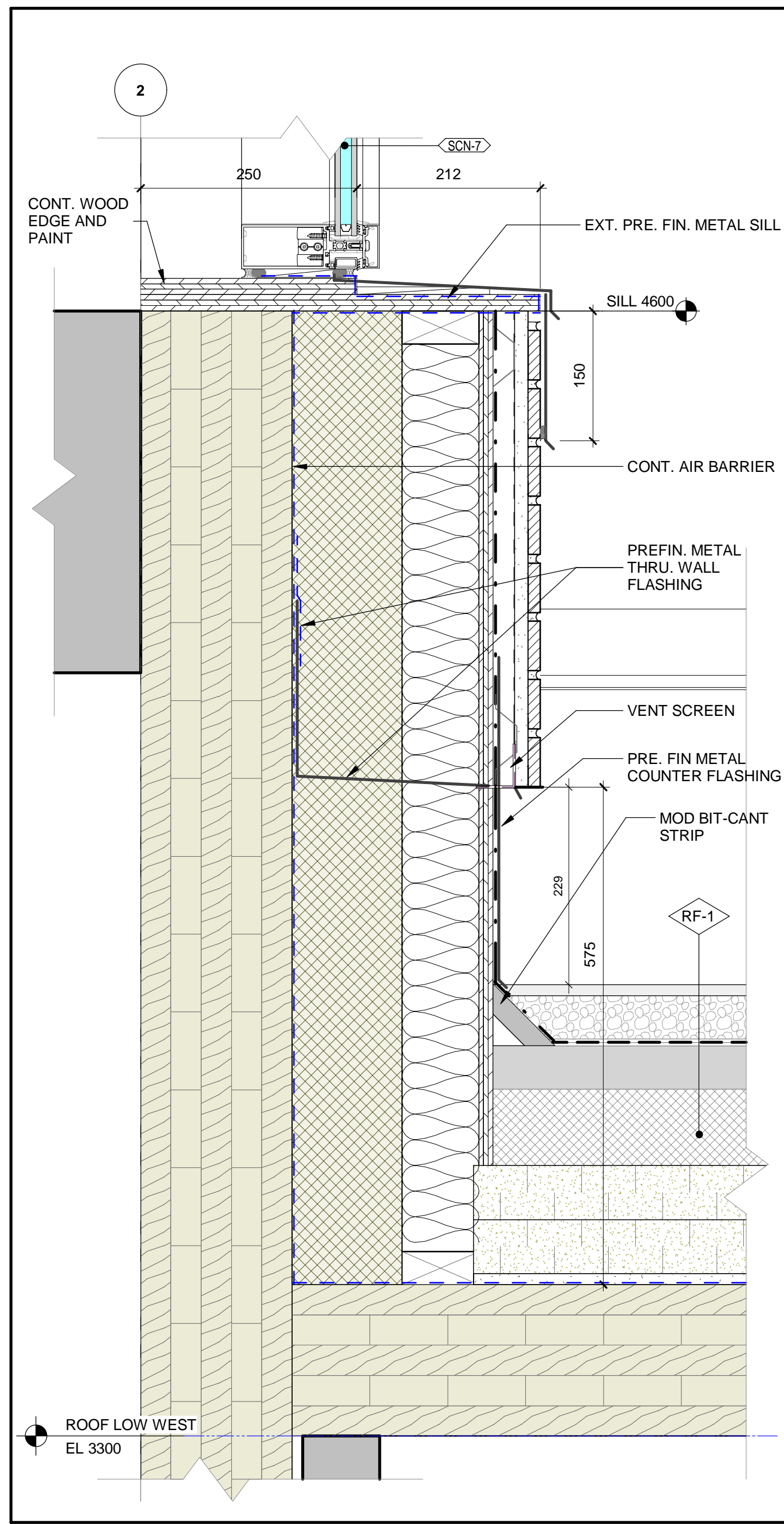
CONSTRUCTION DOCUMENTATION
PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

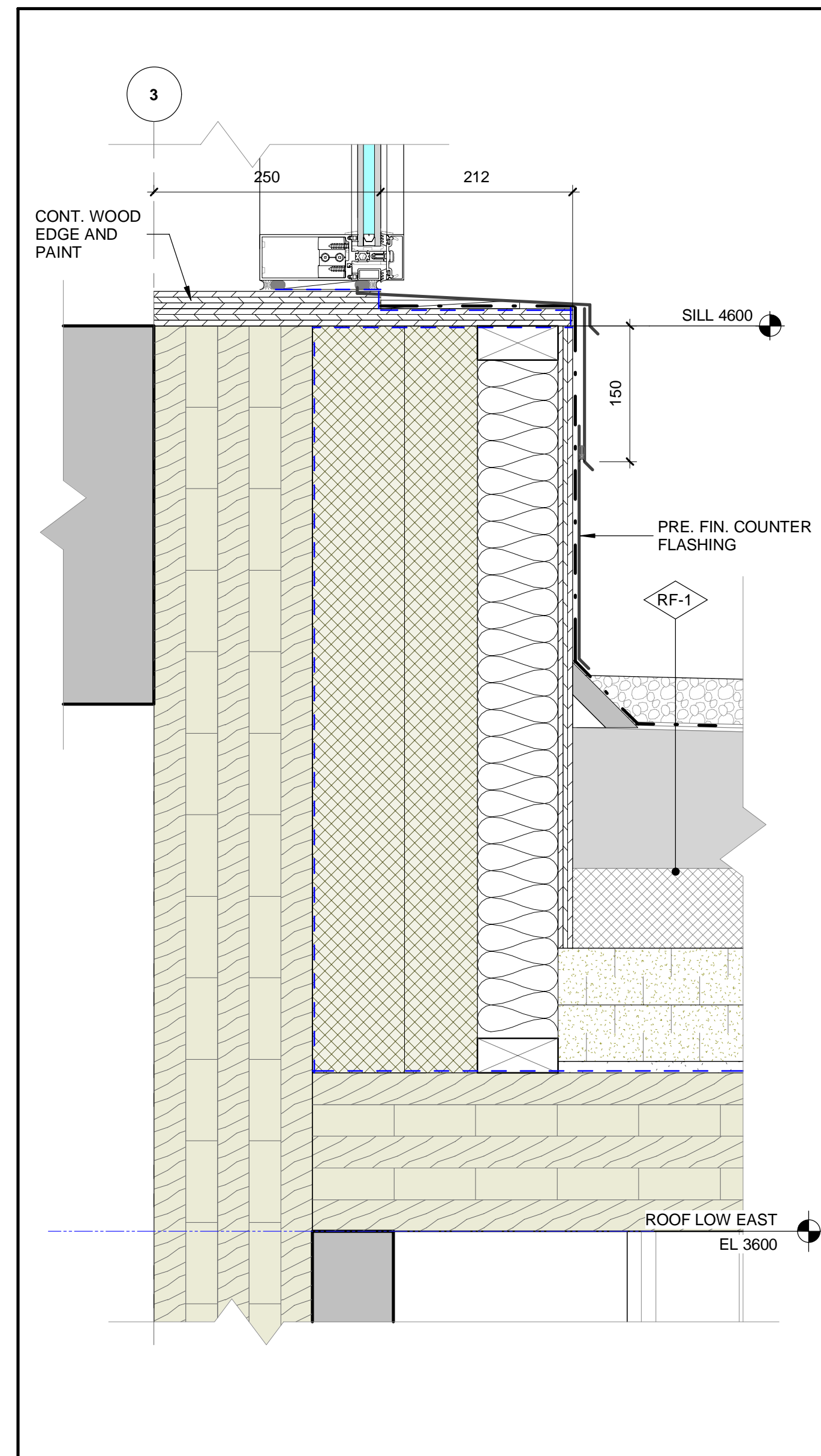
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

DETAILS - ENTRY DOOR & CANOPY

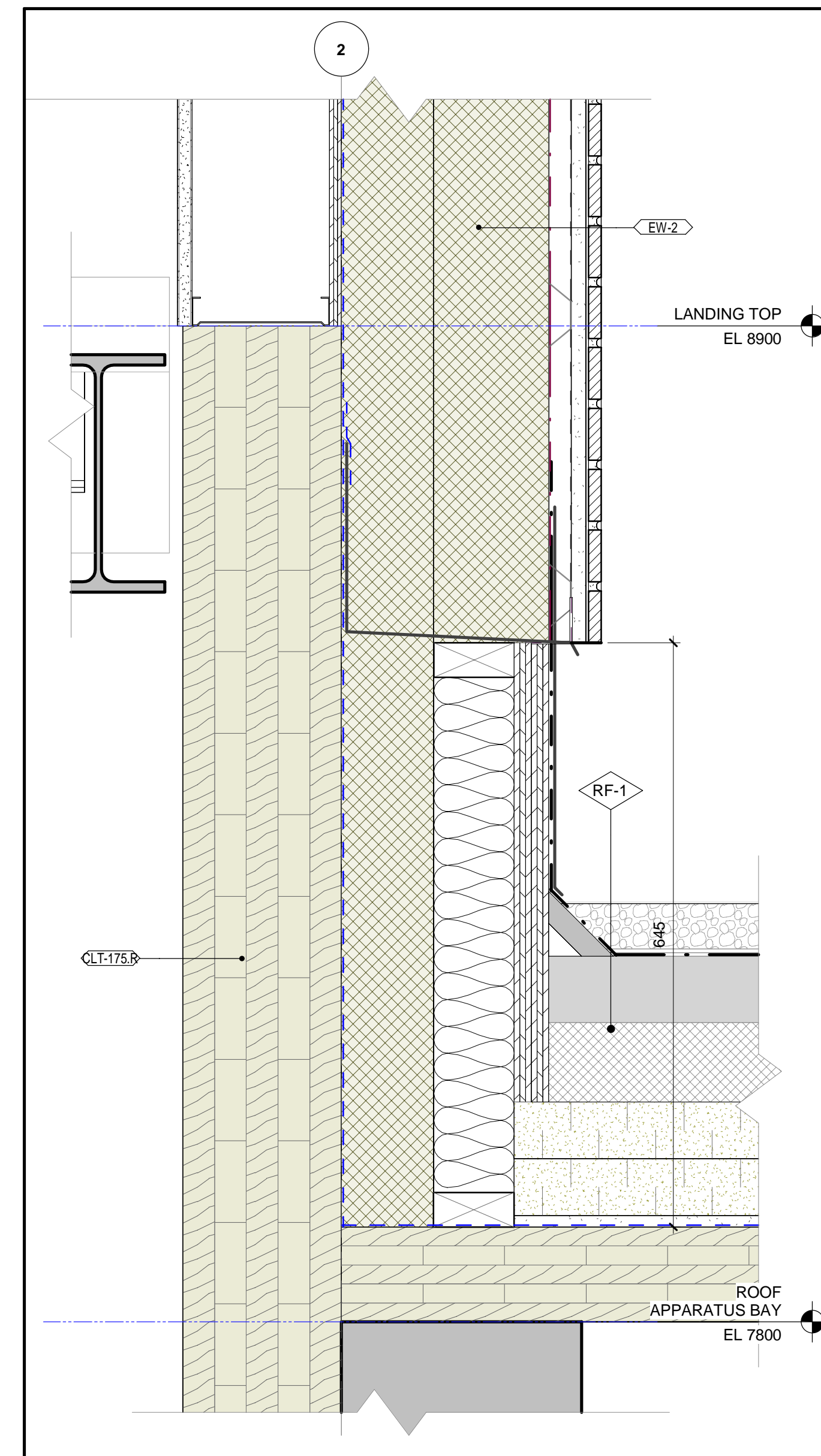
A-514



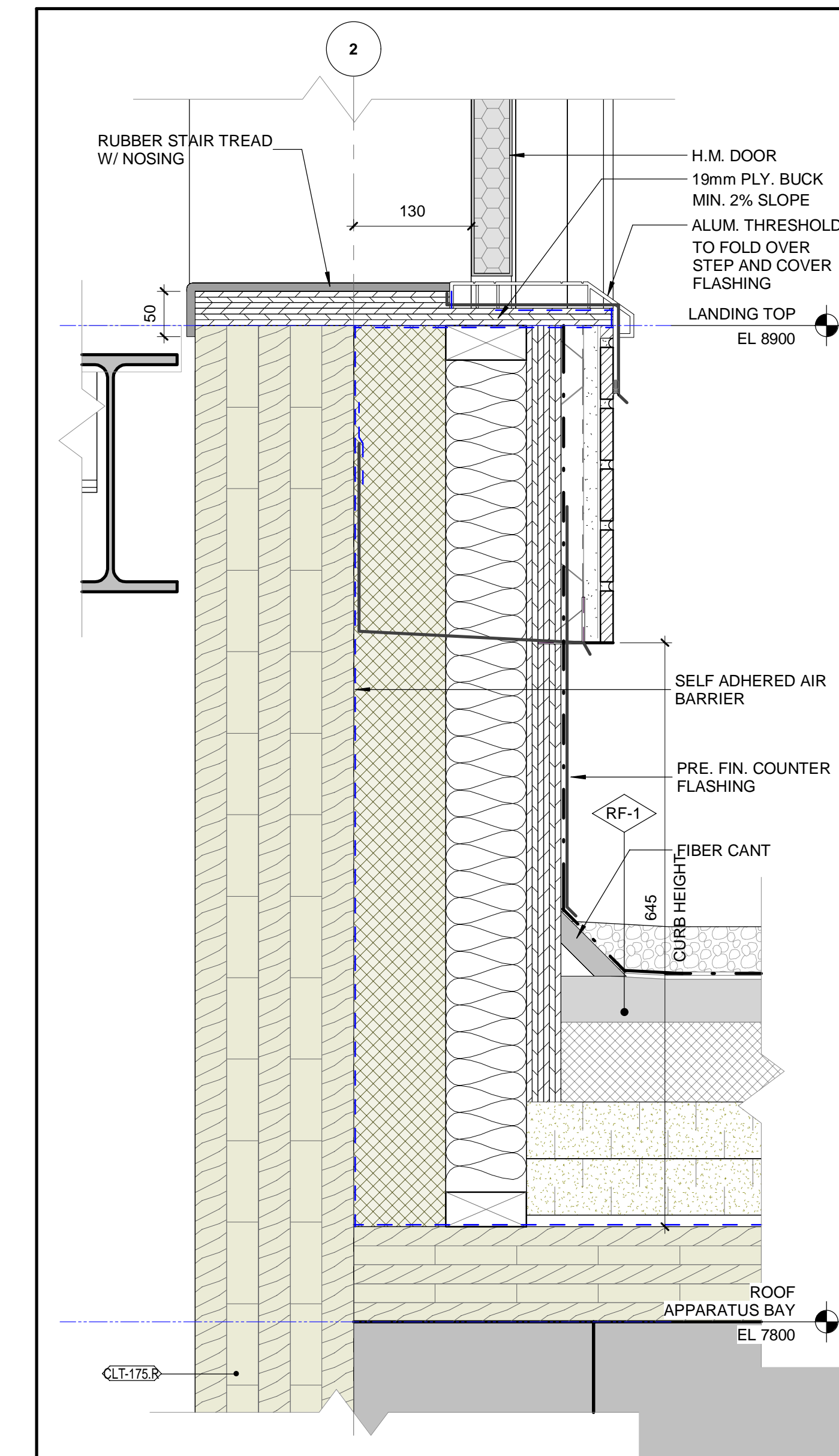
7 | SECTION DETAIL - CURB & CLERESTORY WINDOW WEST ROOF
A-515 | REF: A-311 | Scale: 1 : 5



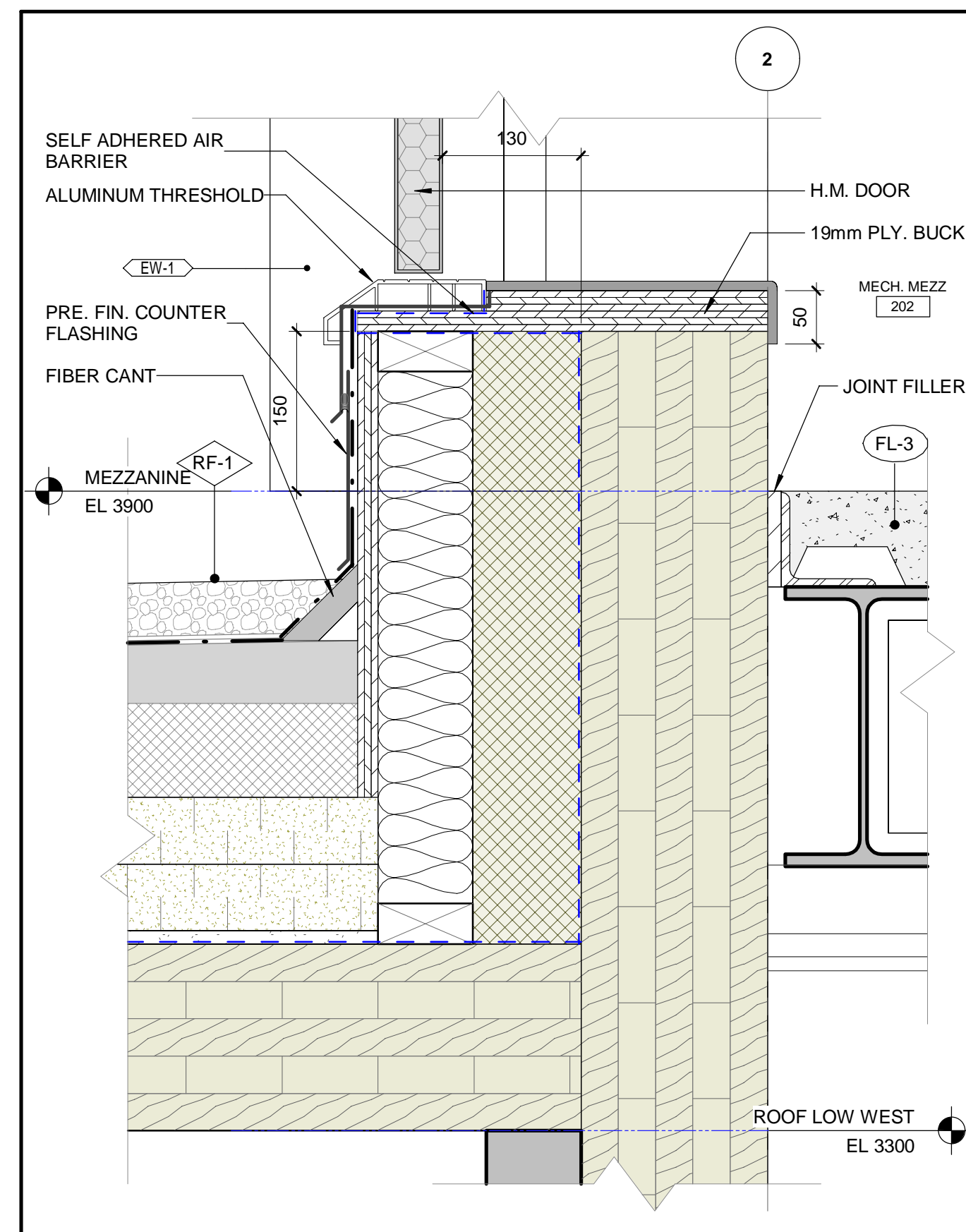
5 | SECTION DETAIL - CURB & CLERESTORY WINDOW EAST ROOF
A-515 | REF: A-311 | Scale: 1 : 5



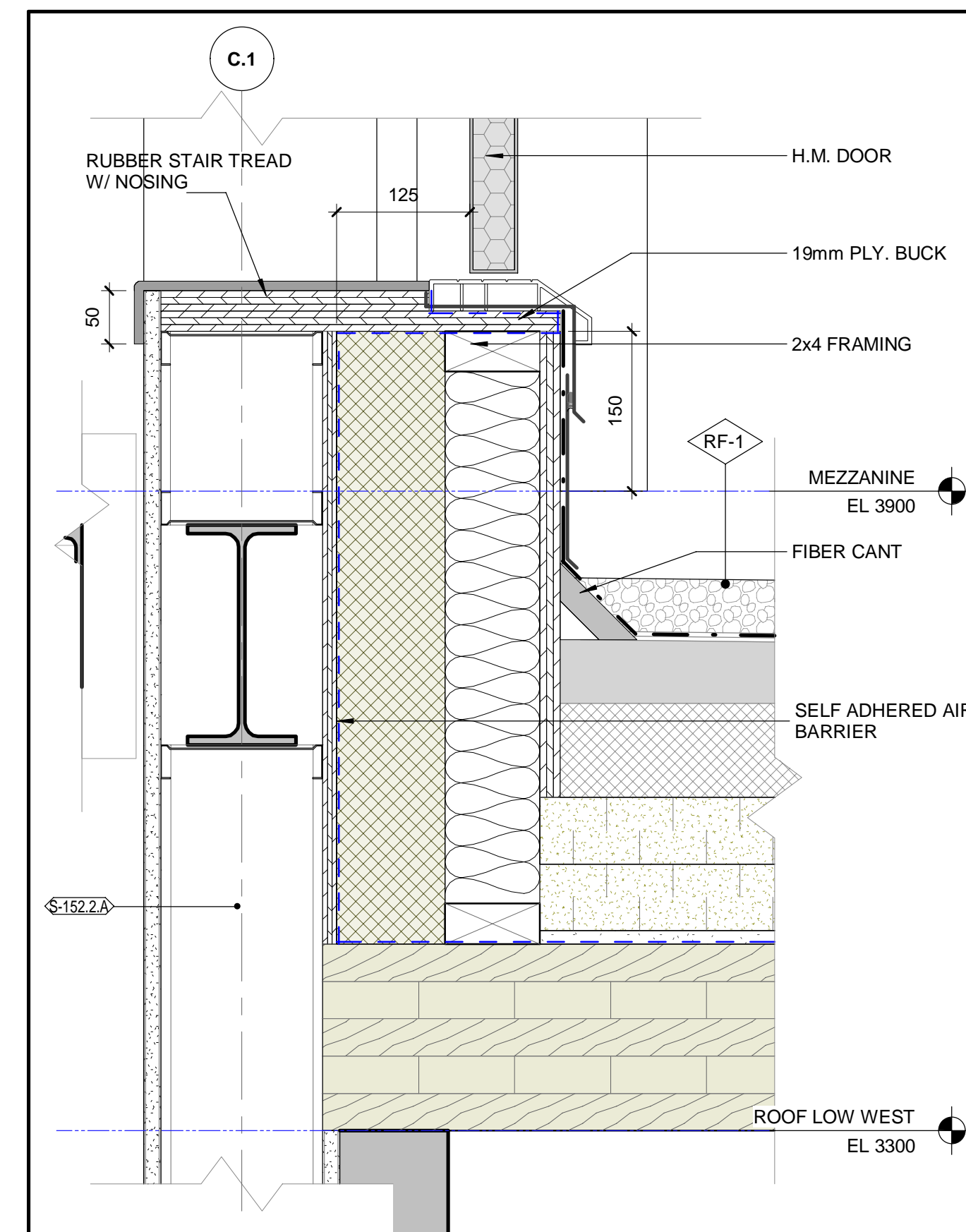
4 | SECTION DETAIL - CURB TYP. @ APPARATUS ROOF
A-515 | REF: A-402.1 | Scale: 1 : 5



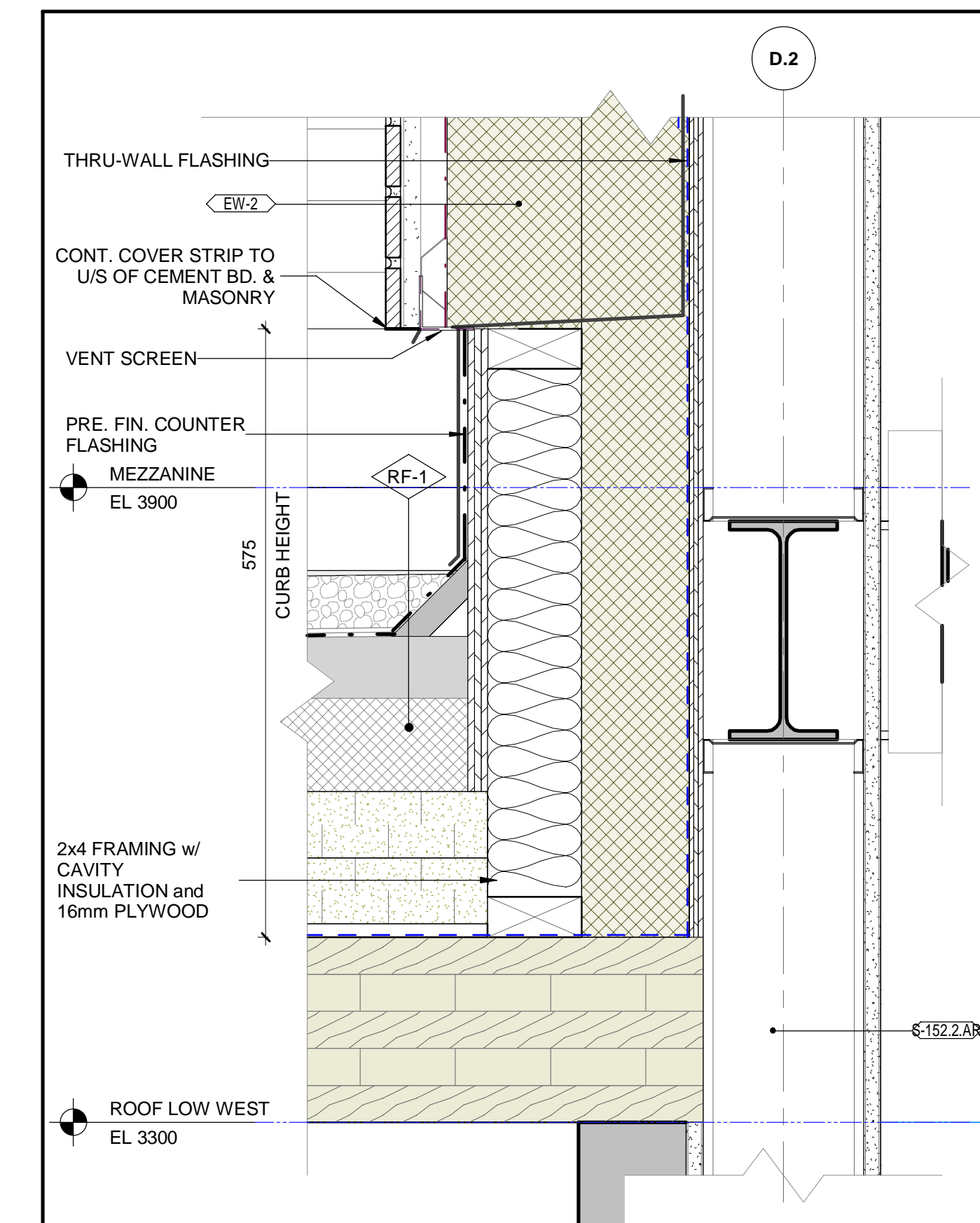
2 | SECTION DETAIL - CURB & DOOR SILL @ APPARATUS ROOF
A-515 | REF: A-402.2 | Scale: 1 : 5



6 | SECTION DETAIL - CURB & MECH MEZZ DOOR WEST ROOF
A-515 | REF: A-312 | Scale: 1 : 5



3 | SECTION DETAIL - CURB & DOOR SILL @ WEST ROOF
A-515 | REF: A-402.1 | Scale: 1 : 5



1 | SECTION DETAIL - CURB & STUD WALL @ WEST ROOF
A-515 | REF: A-402.1 | Scale: 1 : 5

ISSUE / REVISIONS

1	Issued for Building Permit	Mar.21.22
2	Issued for Building Permit Response	Apr.25.22
3	Issued for Tender	Aug.18.22



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CONSTRUCTION DOCUMENTATION
PROJECT No. 21-100
START DATE OCT.2021

**City of Peterborough
FIRE STATION NO. 2**

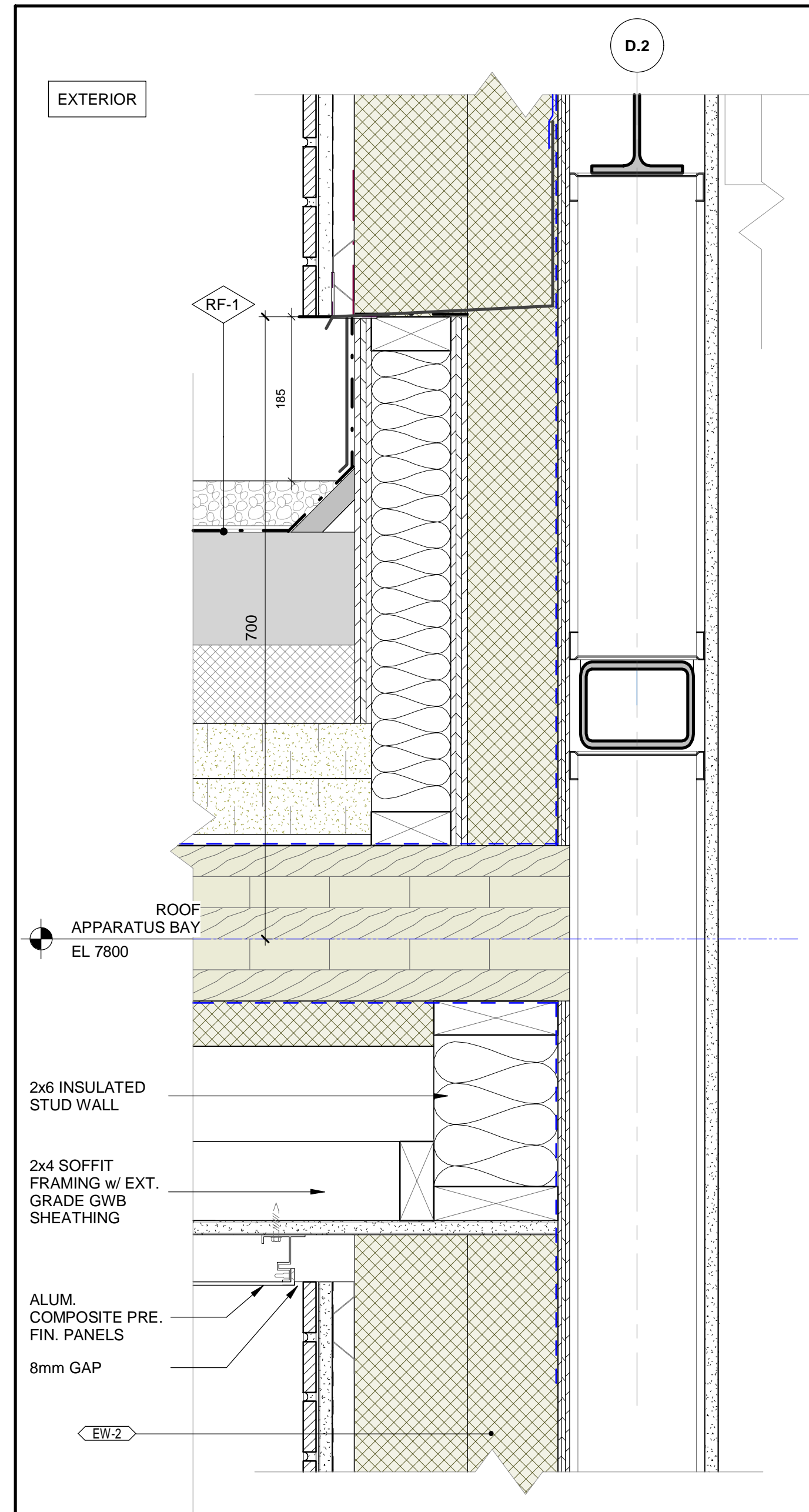
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

SECTION DETAILS - CURB

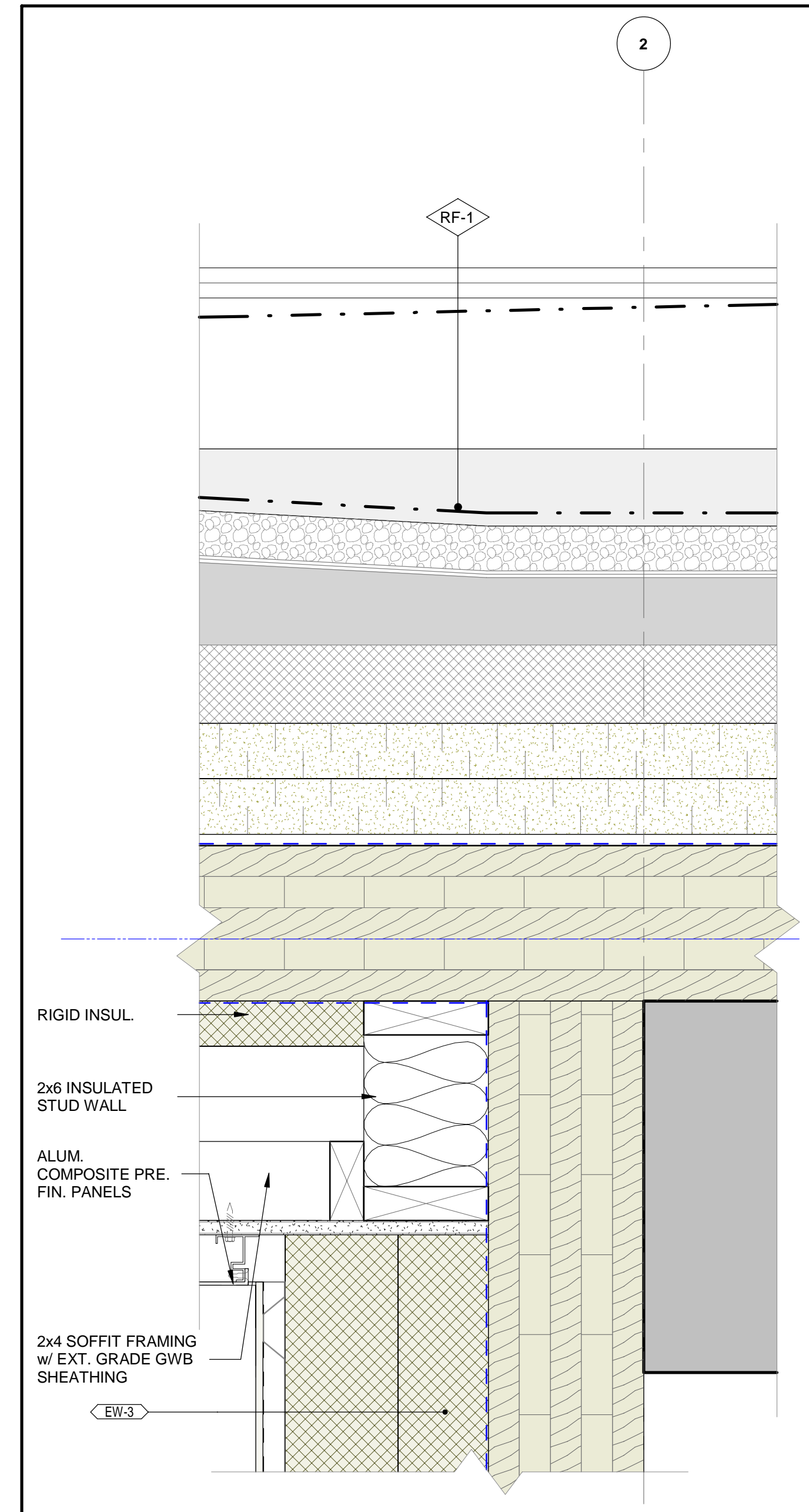
A-515

ISSUE / REVISIONS

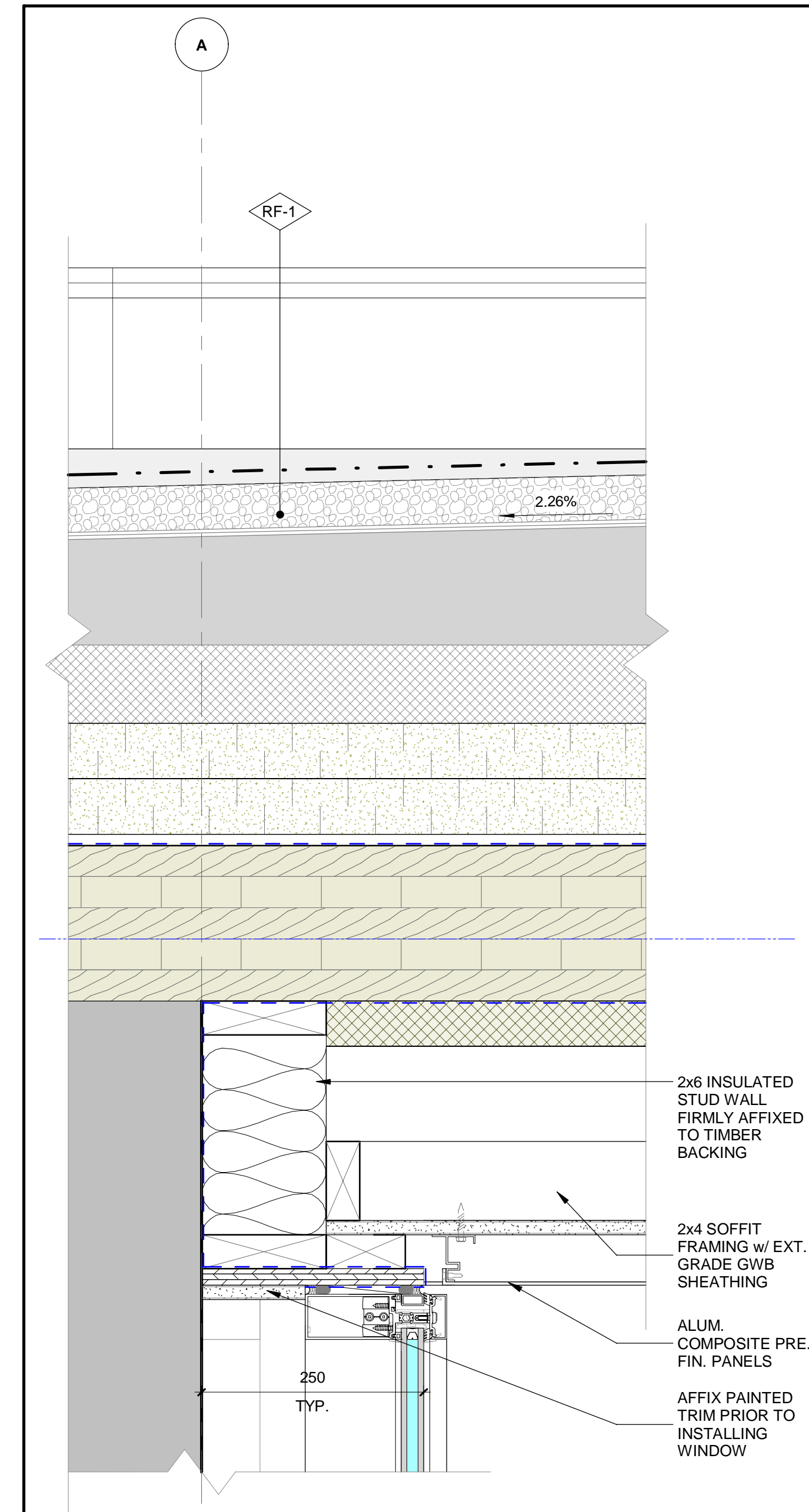
1	Issued for Building Permit	Mar.21.22
2	Issued for Building Permit Response	Apr.25.22
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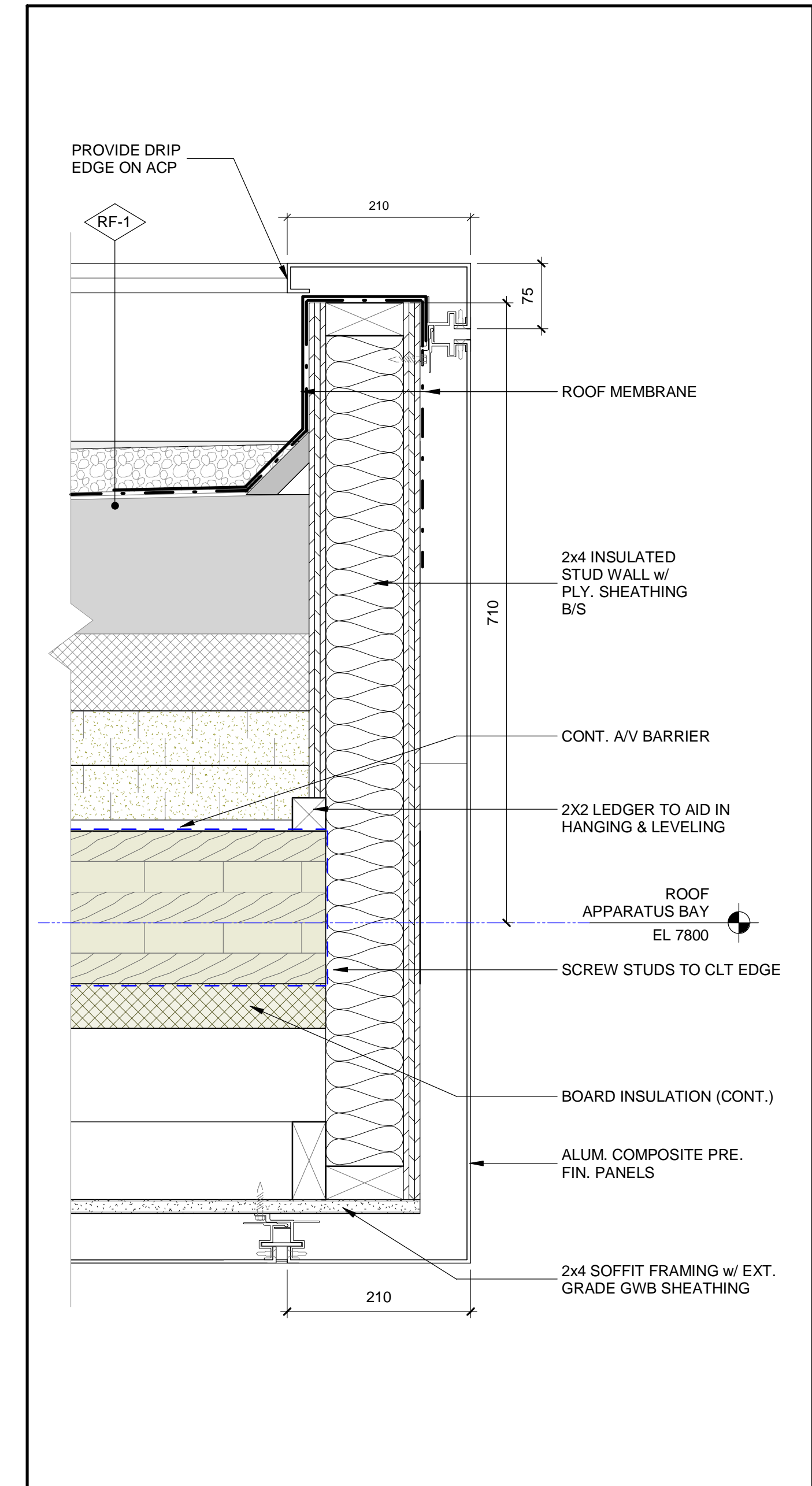
4 | SECTION DETAIL - OVERHUNG ROOF & STUD WALL
A-516 | REF: A-402.1 | Scale: 1 : 5



3 | SECTION DETAIL - SOFFIT @ CLT WALL
A-516 | REF: A-311 | Scale: 1 : 5



2 | SECTION DETAIL - SOFFIT @ CLERESTORY WINDOW
A-516 | REF: A-311 | Scale: 1 : 5



1 | SECTION DETAIL - TYP. PARAPET @ APPARATUS ROOF
A-516 | REF: A-311 | Scale: 1 : 5



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CONSTRUCTION DOCUMENTATION
PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

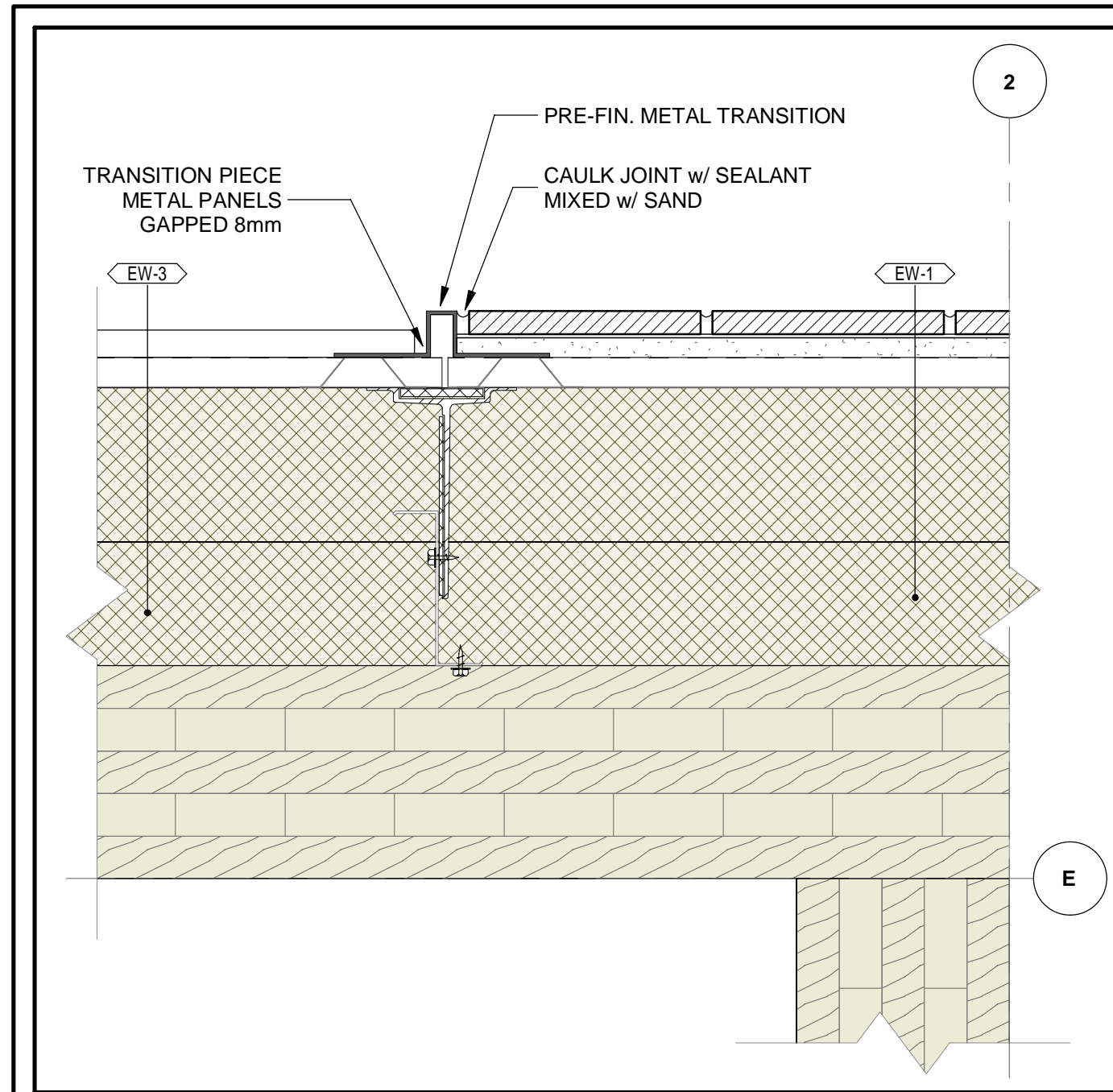
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

SECTION DETAILS - ROOF

A-516

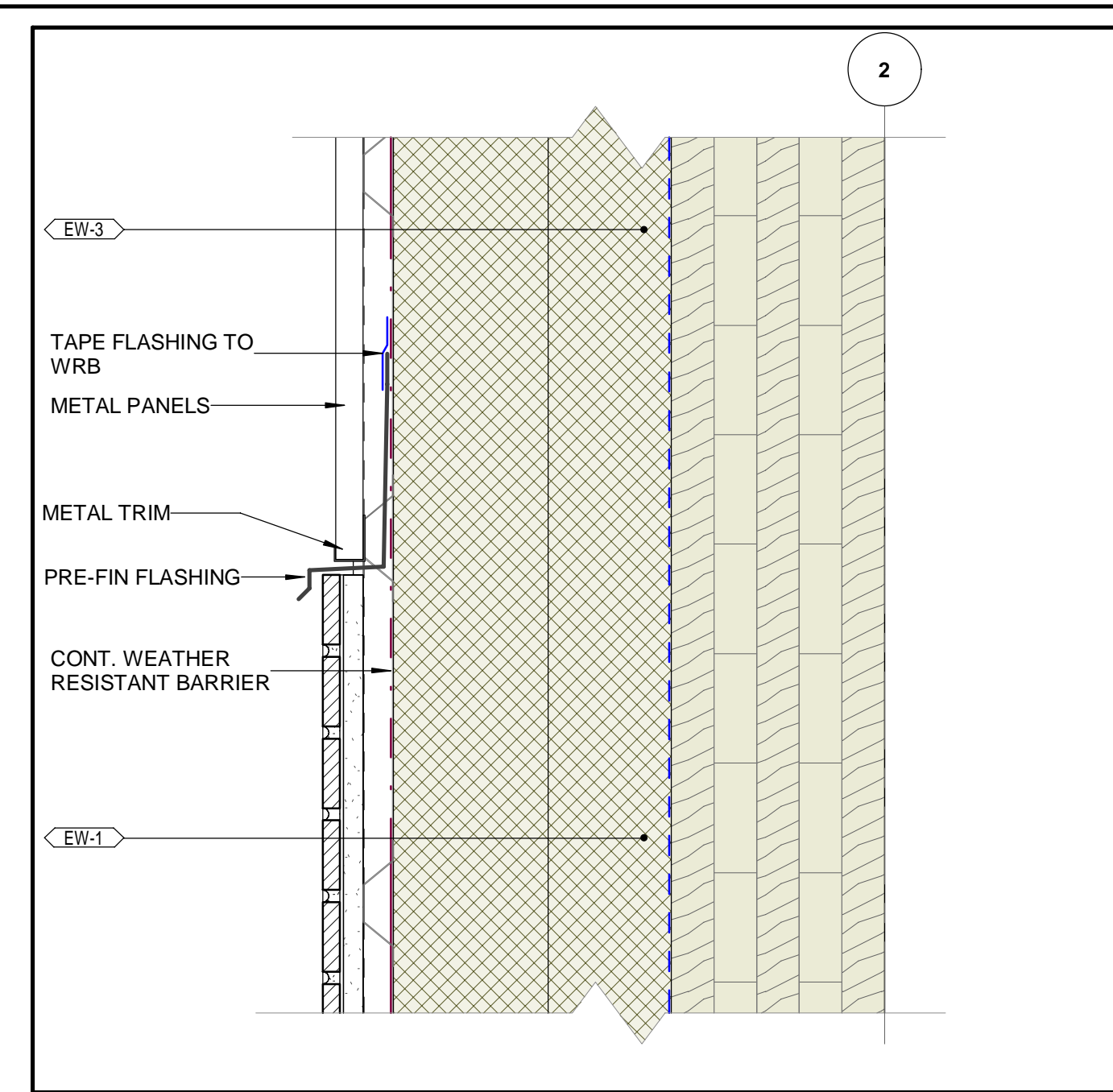
ISSUE / REVISIONS

1	Issued for Building Permit	Mar.21.22
2	Issued for Building Permit Response	Apr.25.22
3	Issued for Tender	Aug.18.22



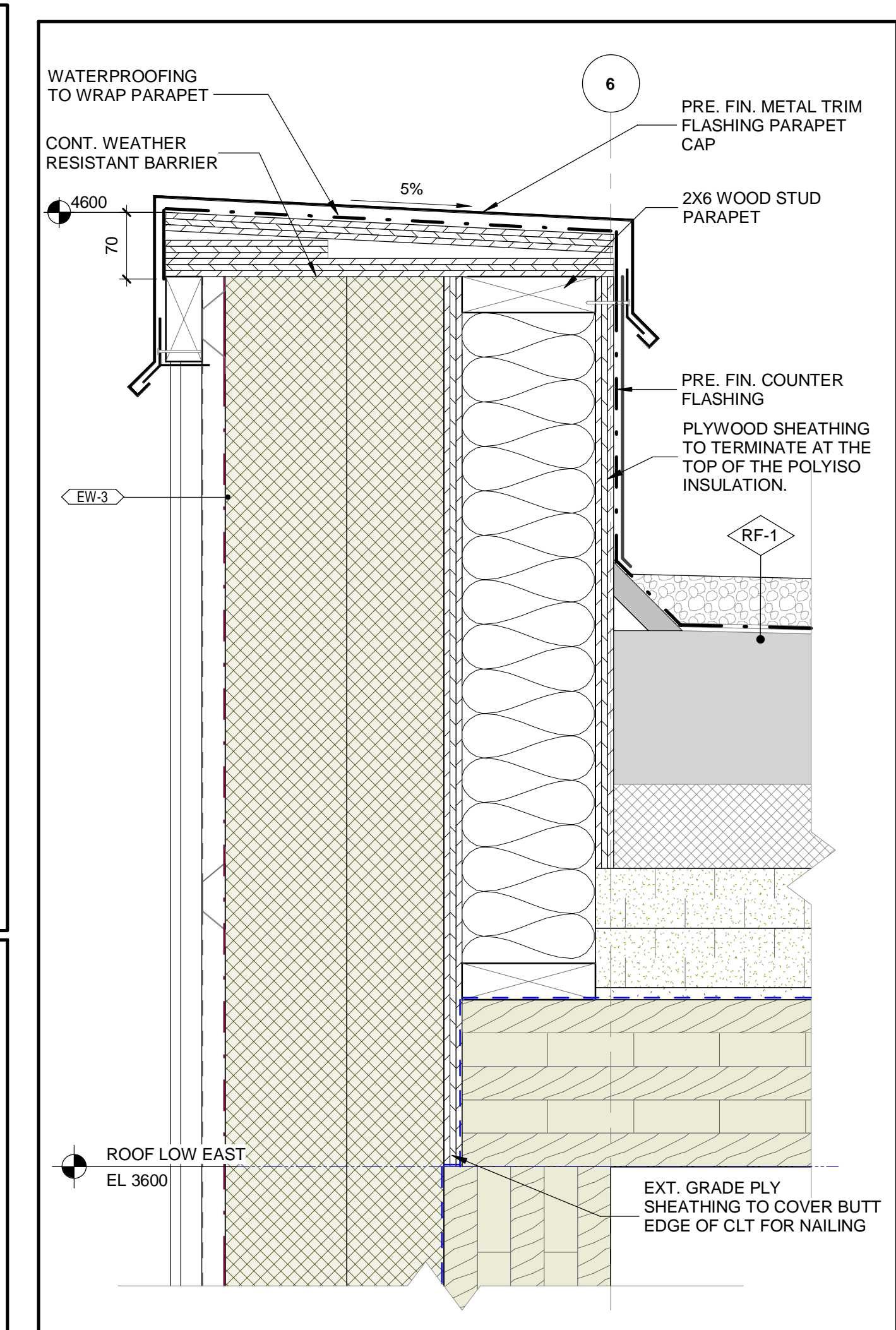
8 | PLAN DETAIL - MATERIAL TRANSITION

A-517 REF: Scale: 1:5



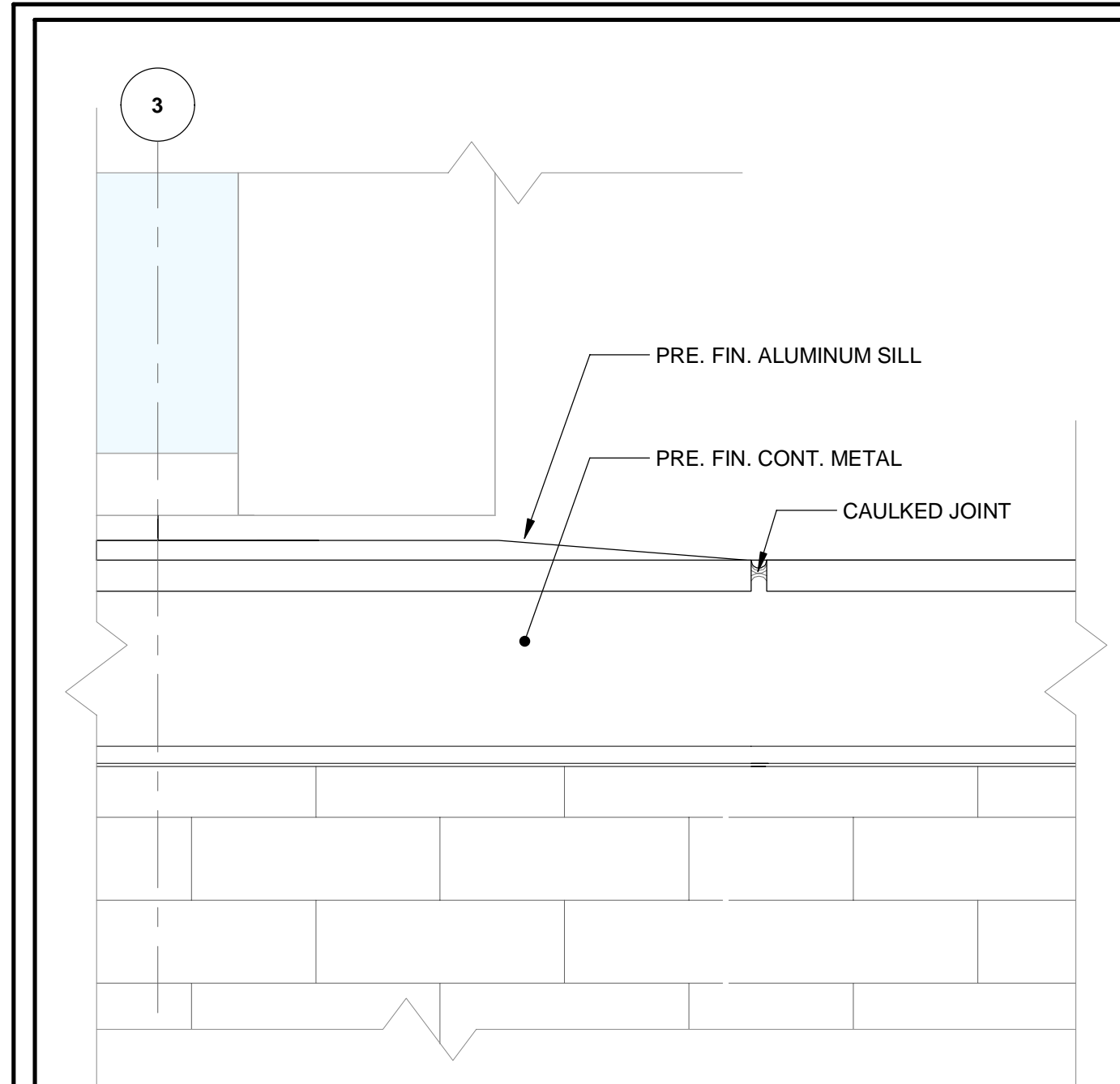
5 | SECTION DETAIL - MATERIAL TRANSITION

A-517 REF: A-311 Scale: 1:5



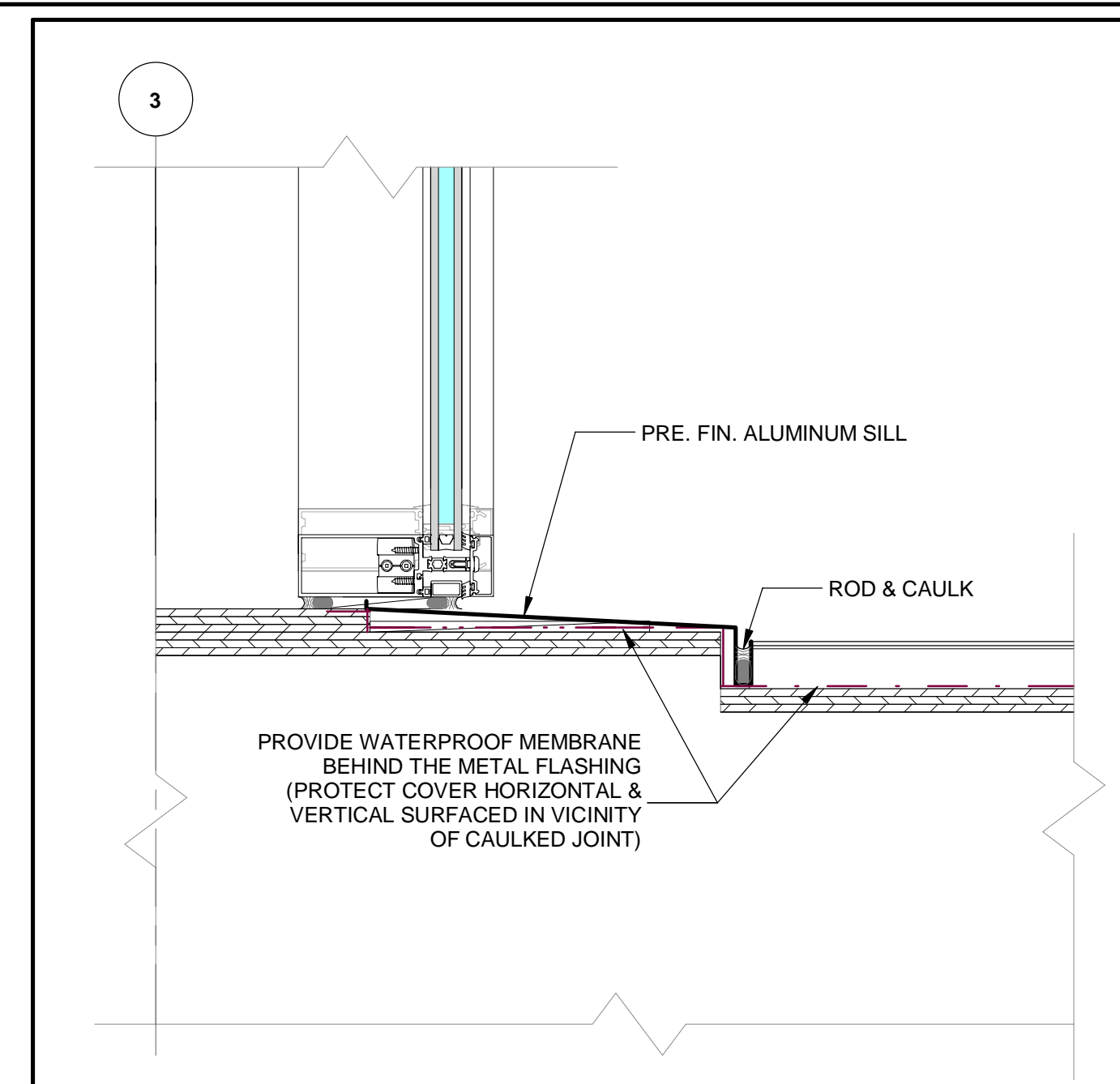
2 | SECTION DETAIL - TYP. PARAPET @ EAST ROOF

A-517 REF: A-313 Scale: 1:5



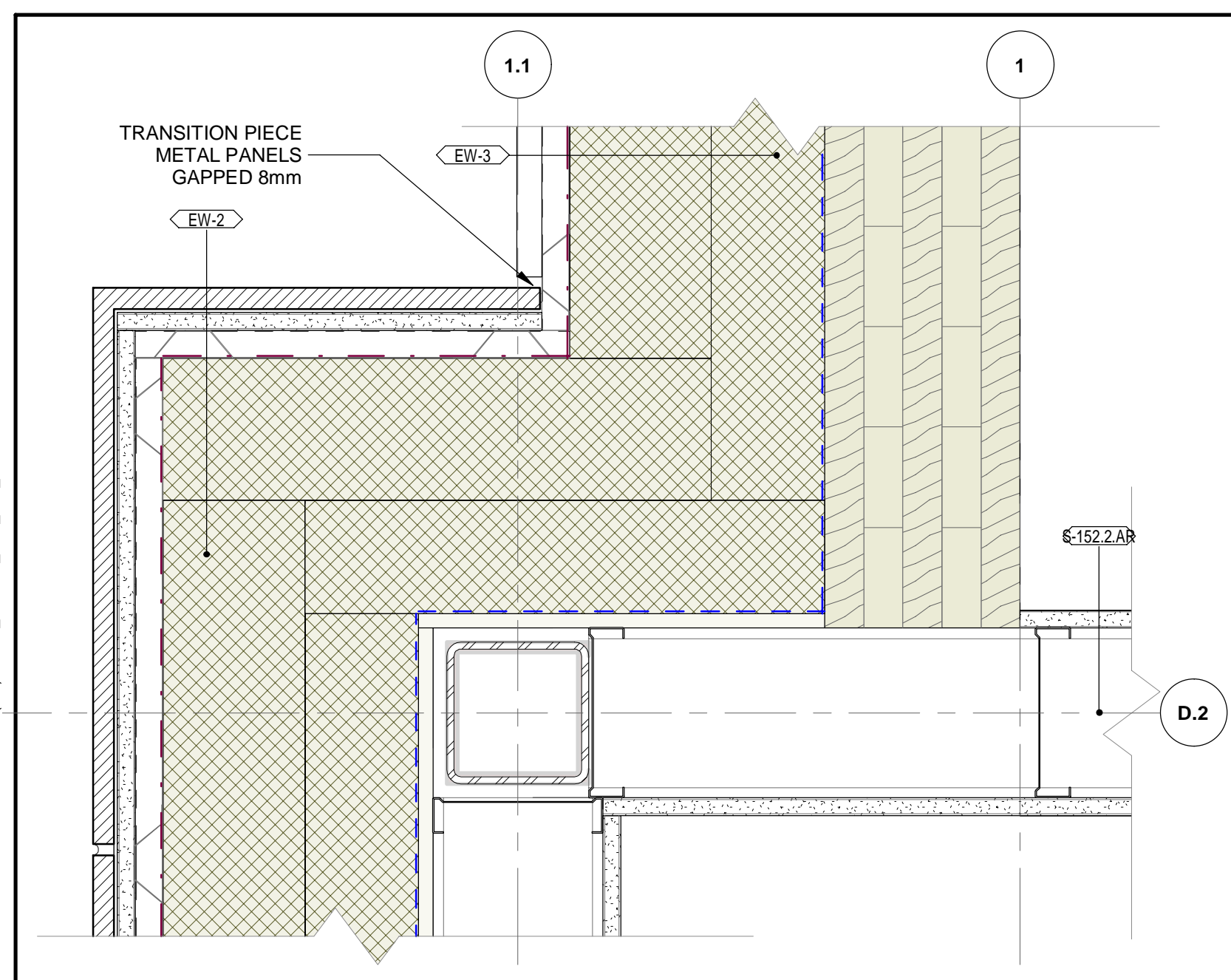
7 | ELE. DETAIL - CORNER FLASHING TRANSITION

A-517 REF: A-201 Scale: 1:5



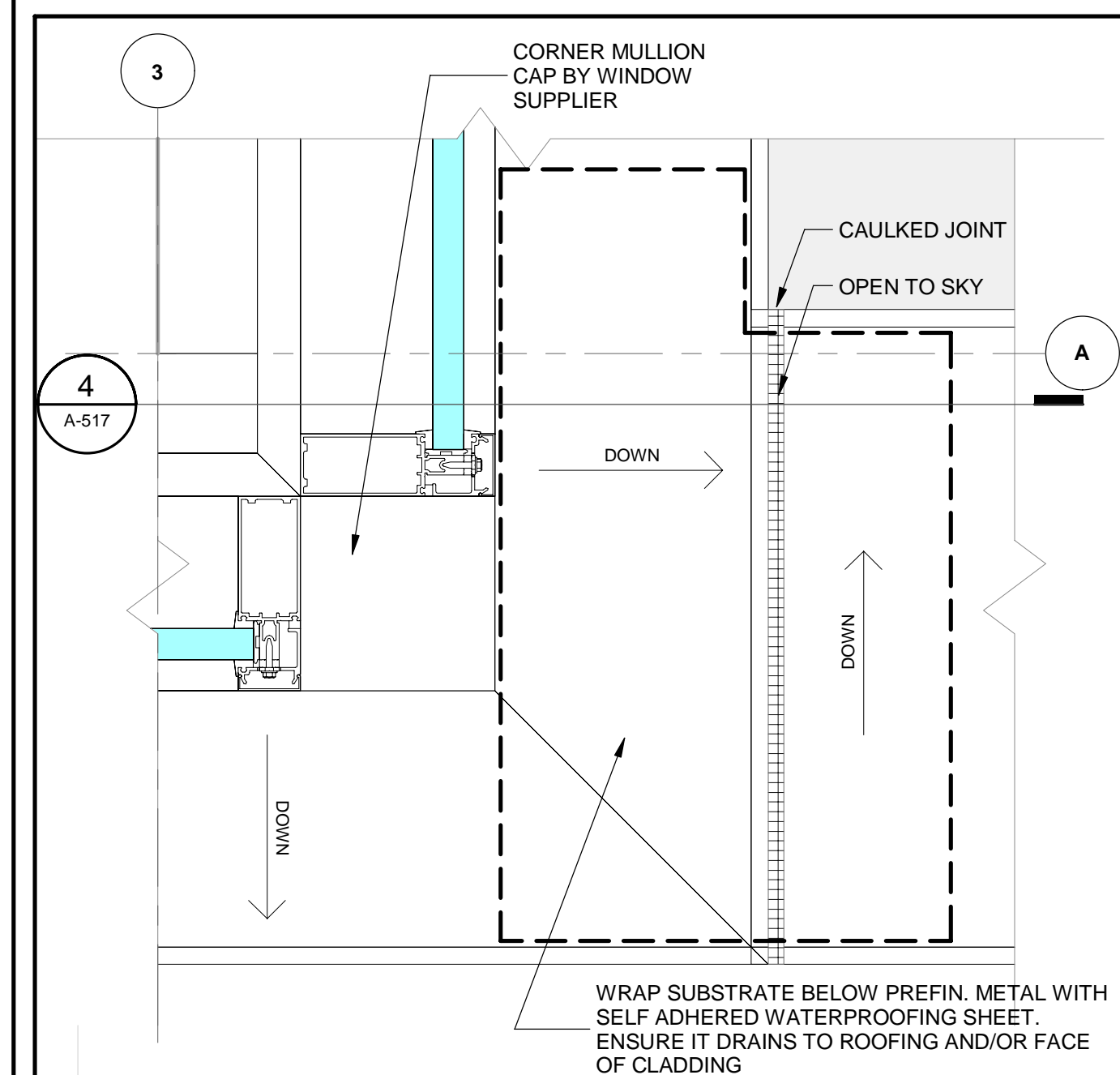
4 | SECTION DETAIL - CORNER FLASHING TRANSITION

A-517 REF: A-517 Scale: 1:5



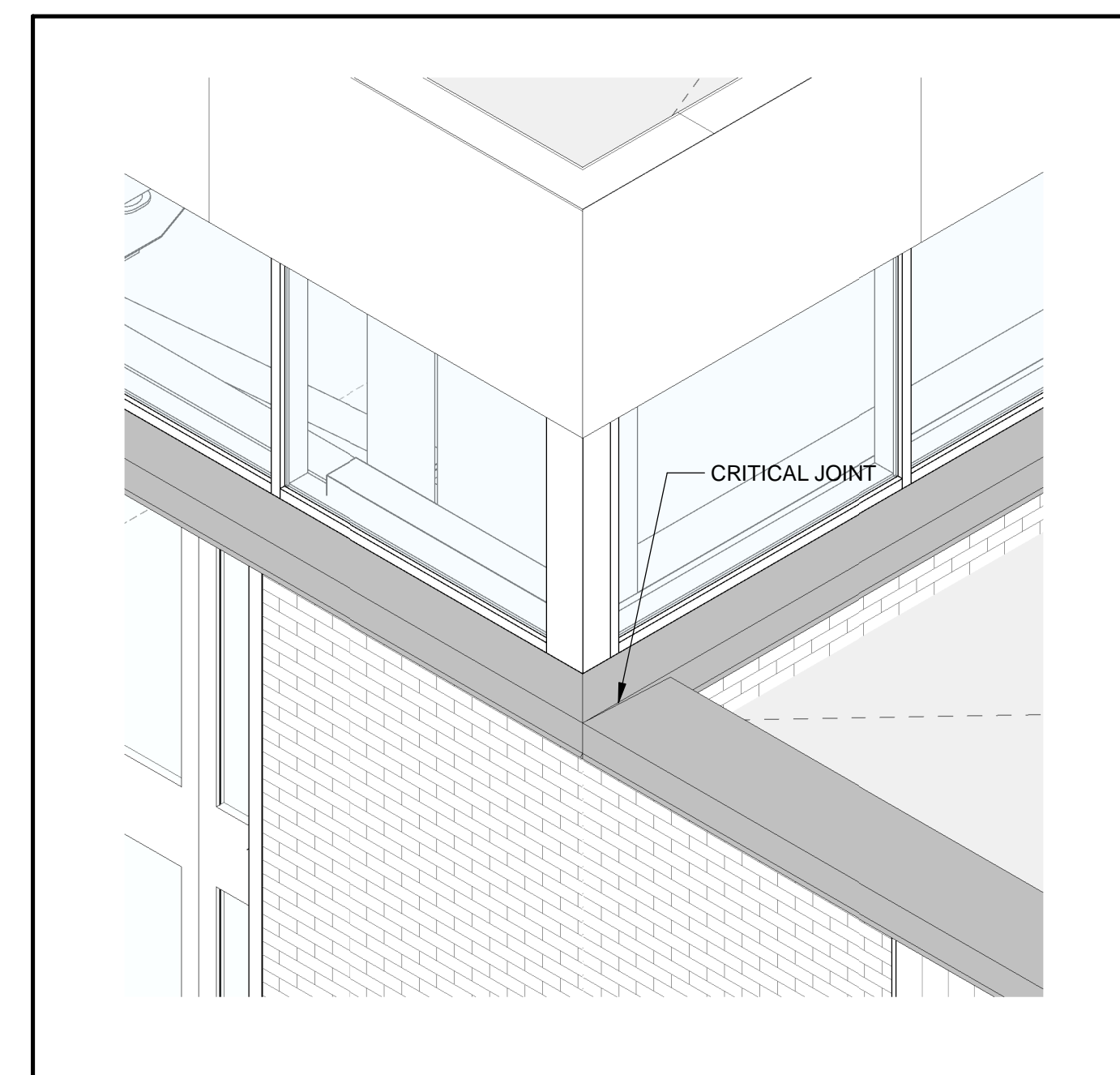
9 | PLAN DETAIL - HOSE TOWER CORNER

A-517 REF: A-401 Scale: 1:5



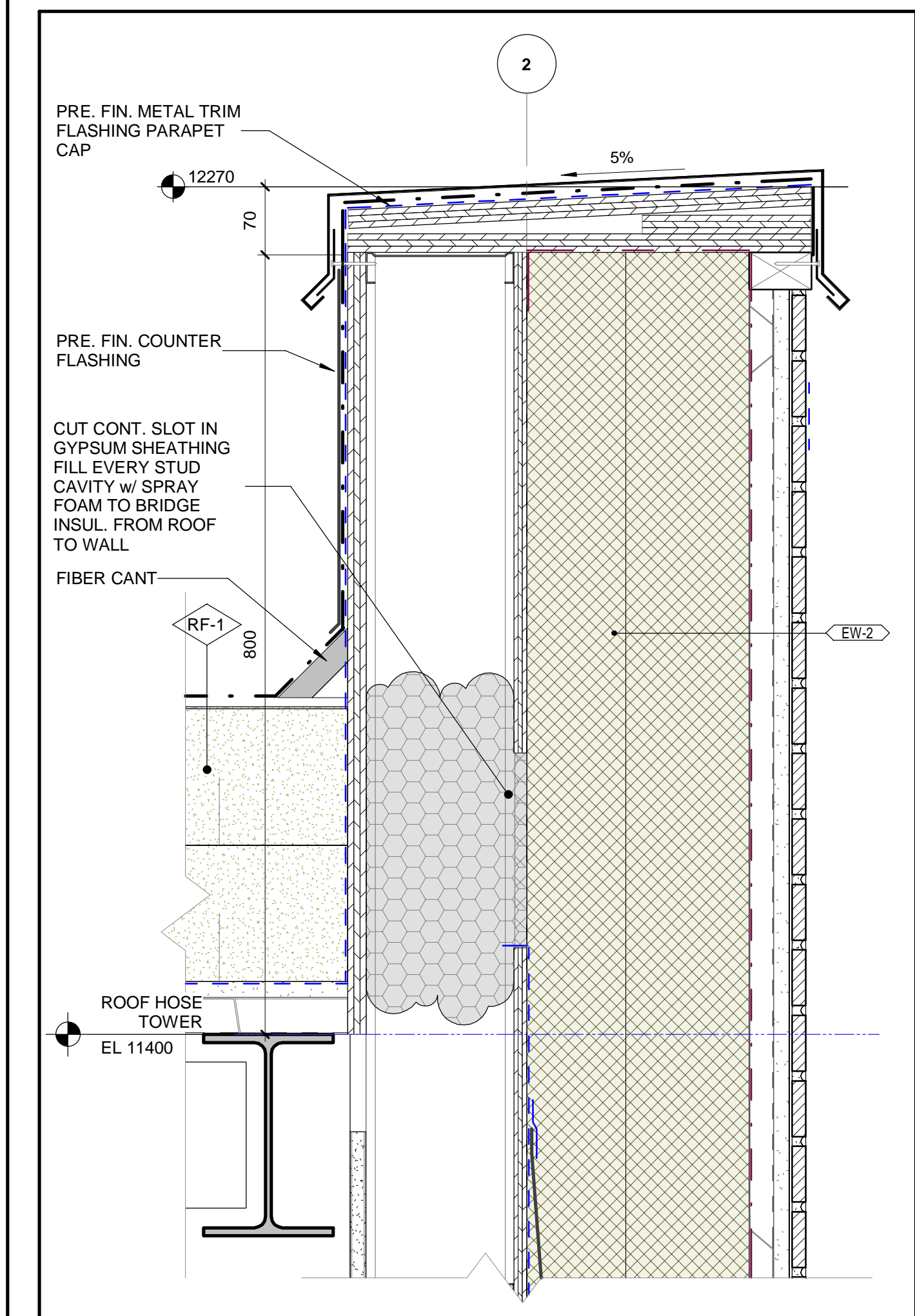
6 | PLAN DETAIL - CORNER FLASHING TRANSITION

A-517 REF: A-102 Scale: 1:5



3 | 3D VIEW - CORNER FLASHING TRANSITION

A-517 REF: Scale:



1 | SECTION DETAIL - TYP. PARAPET @ HOSE TOWER

A-517 REF: A-402.1 Scale: 1:5



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CONSTRUCTION DOCUMENTATION

PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

DETAILS - MATERIAL
TRANSITION &
PARAPET

A-517

DOOR SCHEDULE GENERAL NOTES

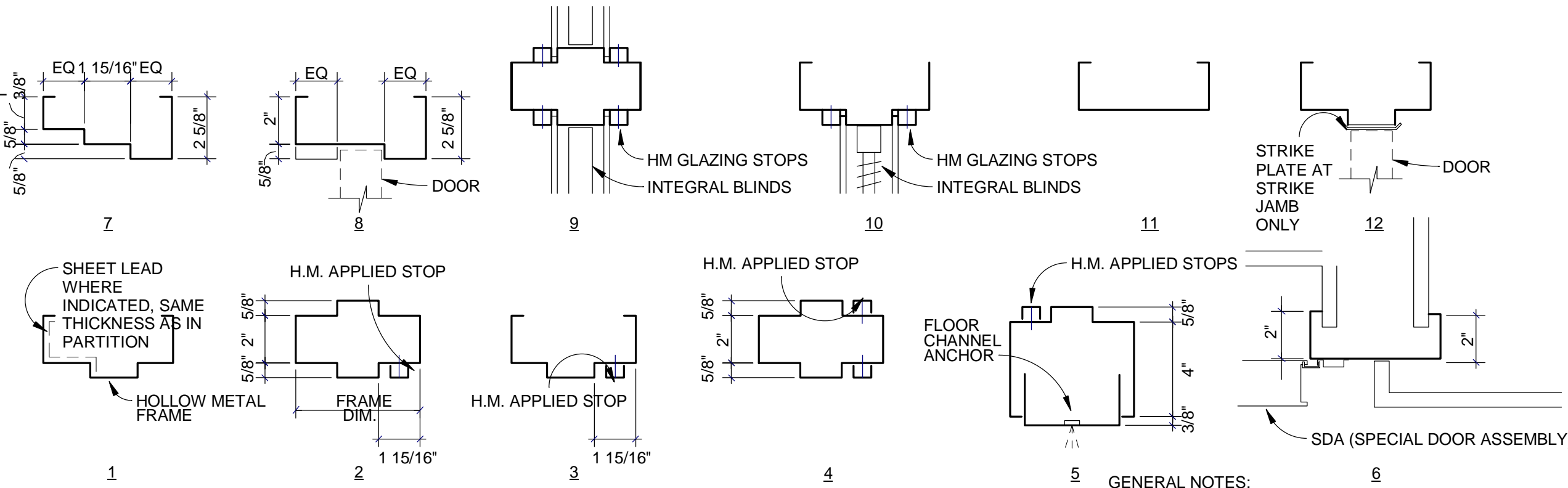
- 1. REVISIONS TO THE SCHEDULE ARE NOTED IN THE "REV" COLUMN AND WILL NOT NECESSARILY BE CLOUDED.
2. ALL EXTERIOR DOORS TO BE INSULATED
3. ALL GLASS IN EXTERIOR DOORS TO BE INSULATED GLAZING UNIT
4. ALL GLASS IN FIRE RATED DOORS TO BE FIRE RATED
5. LOCATION AND SIZE OF LOUVRES TO BE COORDINATED WITH SHOP
6. FRAMES SHOWN ON FRAME TYPE DRAWINGS ARE STANDARD CONFIGURATIONS AND MAY NOT BE IN THIS PROJECT. ONLY FRAME TYPES INDICATED ON SCHEDULES ARE INCLUDED.



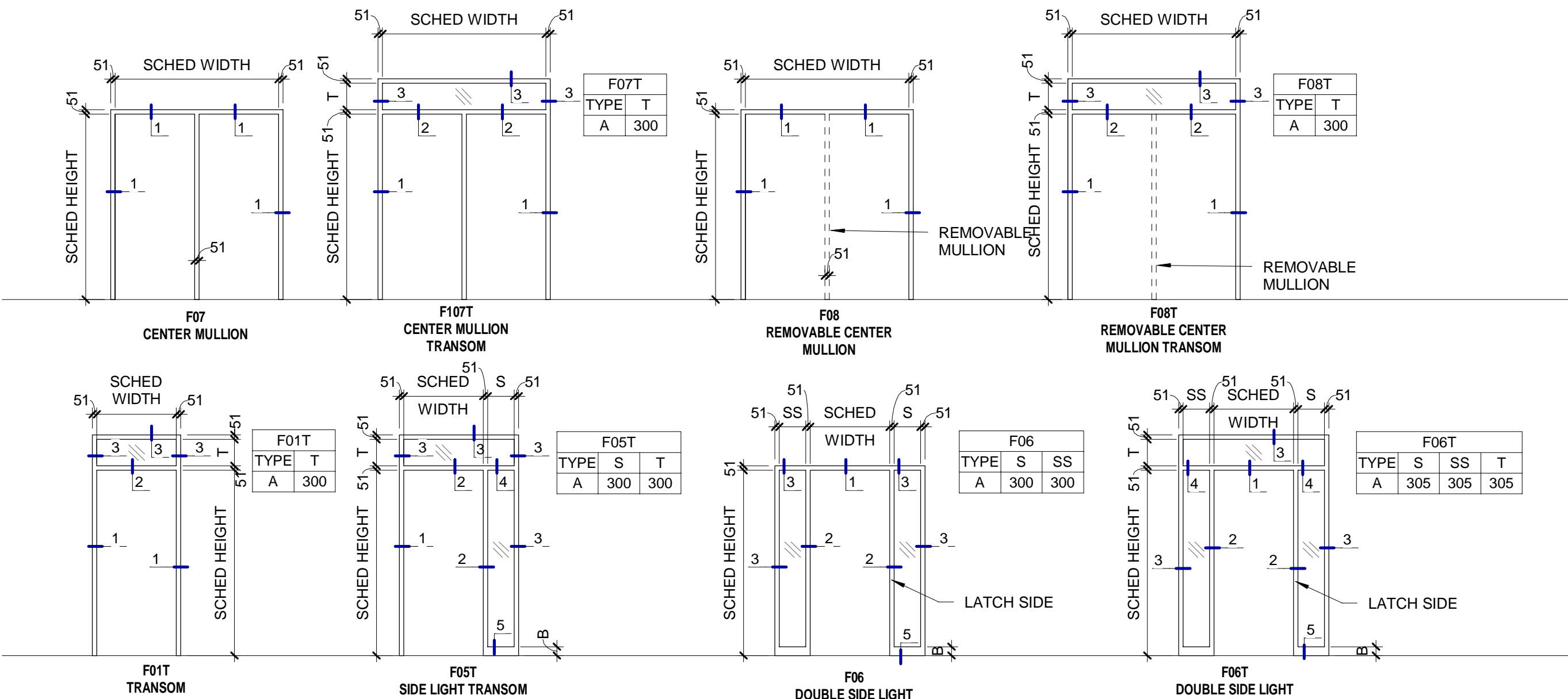
FRAME TYPE VARIATIONS

FRAME TYPE

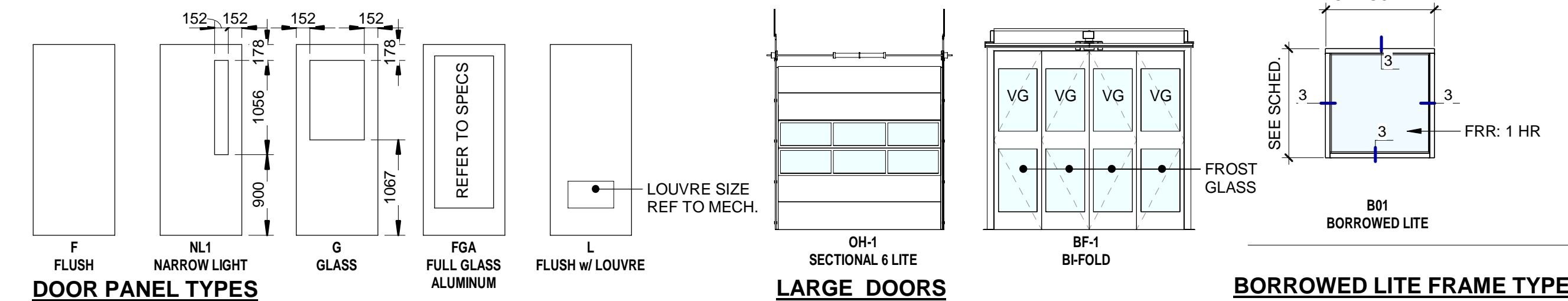
- F05 : A - TYPE VARIATION (SAME GEOMETRY WITH DIFFERENT DIMENSIONS) SEE SCHEDULE ON FRAME TYPES
B01 : A - BOWORRED LITE FRAME



HOLLOW METAL FRAME PROFILES



DOOR FRAME TYPES



DOOR PANEL TYPES

LARGE DOORS

BORROWED LITE FRAME TYPES

DOOR SCHEDULE

Table with columns: No., LOCATION, FROM, TO, FUNCTION, PANEL TYPE, DIMENSIONS (WIDTH, HEIGHT, THICKNESS), MATERIAL, INSULATED, UNDERCUT, FINISH, LOUVER, GLASS, TYPE, MATERIAL, DEPTH, FINISH, FRR (MIN.), HARDWARE GROUP, COMMENTS. Lists 301 door entries.

- GENERAL NOTES:
1. FRAMES ARE TO BE WELDED UNLESS NOTED OTHERWISE.
2. FRAME INFO SHOWN IS TYP. UNLESS NOTED OTHERWISE BY SPECIFIC DETAIL REFERENCE OR FRAME, PROFILE REFERENCE.

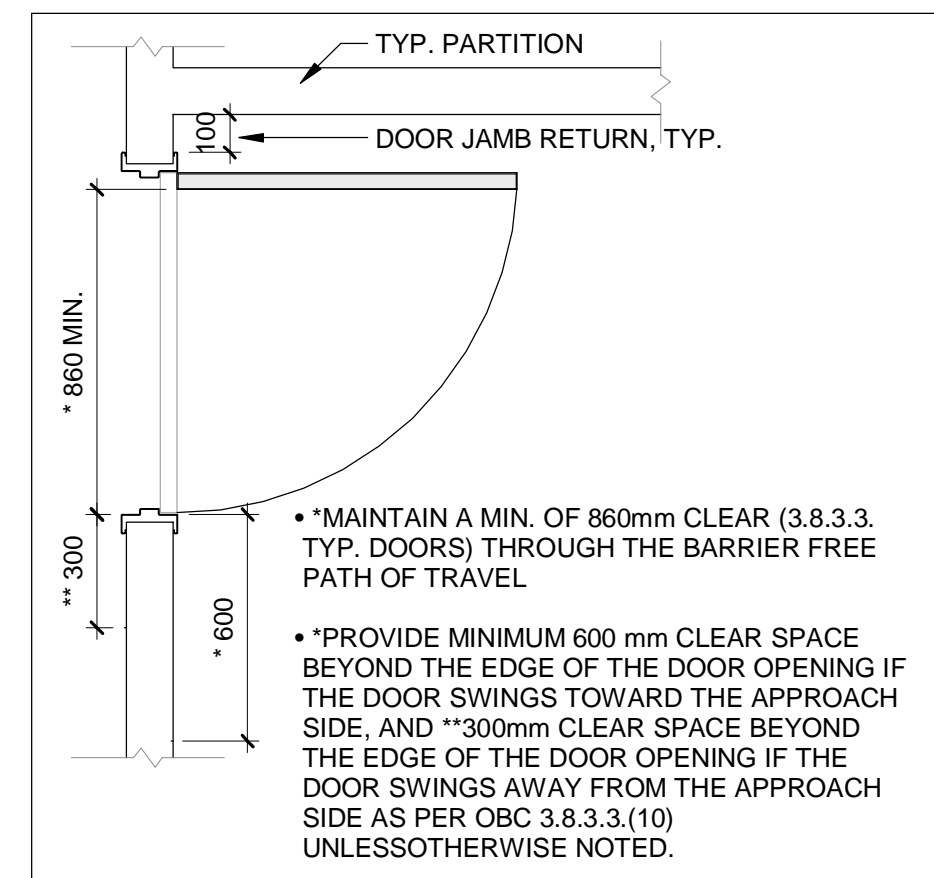
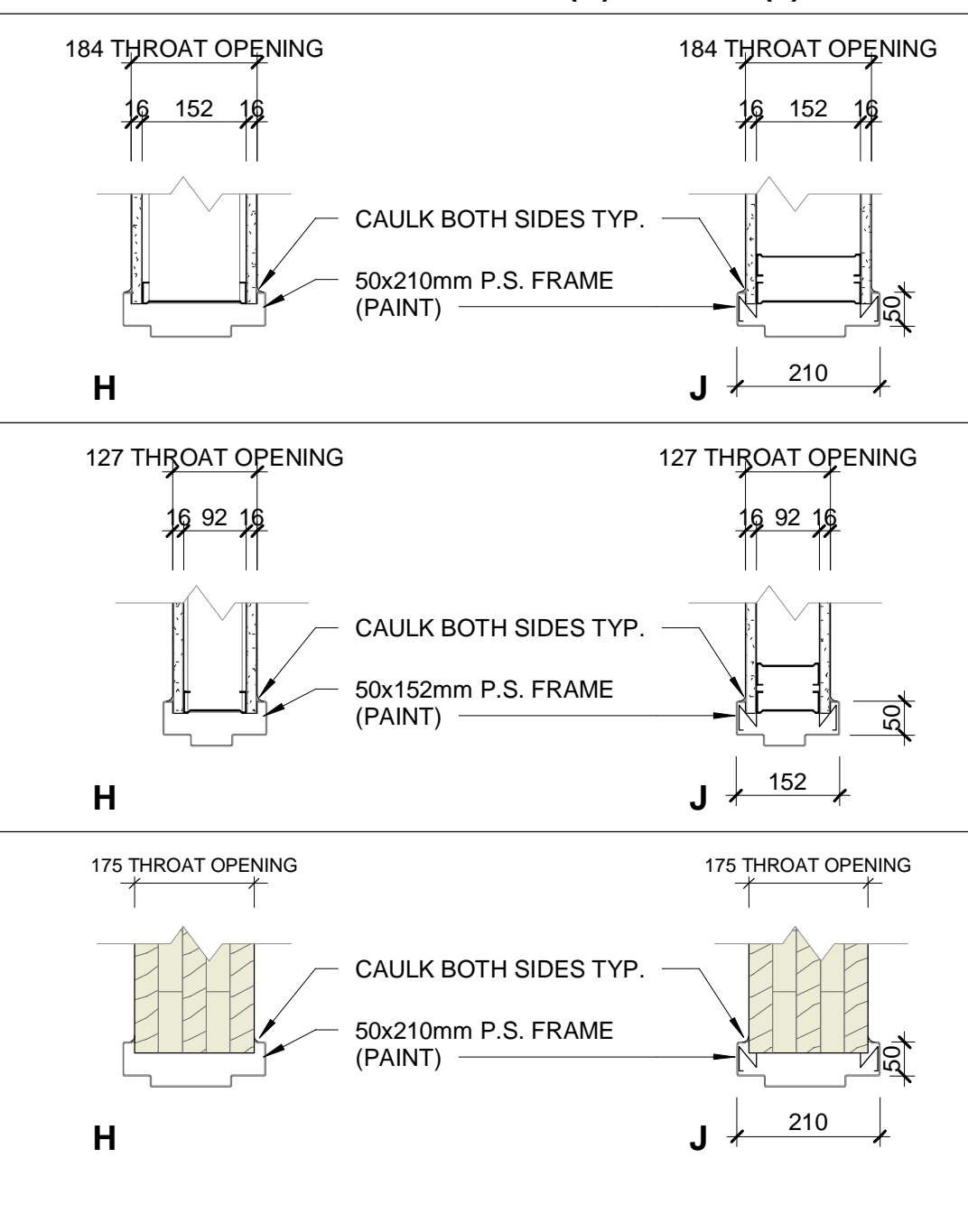
HARDWARE GROUP

Table with columns: GROUP, LOCK FUNCTION, CLIMATIC, OPERATION, SECURITY, DOOR STOP, ACCESSIBILITY, COMMENTS. Lists hardware requirements for door types HG1 through HG9.

BORROWED LITE SCHEDULE

Table with columns: NAME, TYPE, WIDTH, HEIGHT, AREA, LOCATION, DESCRIPTION, FRR (MINUTE). Entry for B01.

INTERIOR DOOR FRAME HEAD (H) & JAMB (J) DETAILS



3 PLAN - TYP. DOOR PLACEMENT

A-601 REF. Scale: 1 : 20



138 Simcoe Street
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ISSUE / REVISIONS

Table with 2 columns: Issue/Revision number and date. Shows 3 revisions.



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CONSTRUCTION DOCUMENTATION

PROJECT No. 21-100
START DATE OCT.2021

City of Peterborough
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON
K9H 6M6

DOOR SCHEDULE & DETAILS

A-601

ROOM FINISH SCHEDULE																
No.	LOCATION ROOM NAME	FLOOR SUBSTRATE	FINISH FINISH	BASE BASE	WALLS						CEILING				COMMENTS	
					NORTH		SOUTH		EAST		WEST		MATERIAL	FINISH		CLG/RM HT.
					MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH				
101	SOUTH VEST	CONC.	FT-2 (24"x12")	TILE/CAULK	GWB	PAINT	CLT	-	CLT	-	GWB	PAINT	WD PLANK	UNFINISHED	2700	
102	CAPTAIN'S OFFICE #2	CONC.	CARPET	RUBBER	GWB	PAINT	GWB	PAINT	CLT	-	GWB	PAINT	A.C.T.	-	2700	
103	UWR & SHWR	CONC.	FT-1 (12"x12")	TILE/CAULK	GWB	PAINT	CLT	-	GWB	PAINT	GWB	PAINT	GYP.	PAINT	2700	
104	CAPTAIN'S OFFICE #1	CONC.	CARPET	RUBBER/CAULK	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	A.C.T.	-	2700	
105	IT	CONC.	ANTI-STATIC	RUBBER	GWB	PAINT	CLT	-	GWB	PAINT	GWB	PAINT	GYP.	PAINT	-	
106	FLEX SPACE	CONC.	RUBBER	-	GWB	PAINT	CLT	-	GWB	PAINT	CLT	-	EXPOSED	-	2700	
107	STOR	CONC.	SEALED	-	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	EXPOSED	-	-	
108	WR/SAUNA	CONC.	FT-1 (12"x12")	-	GWB	PAINT/TILE	GWB	PAINT/TILE	GWB	PAINT/TILE	GWB	PAINT/TILE	EXPOSED	PAINT	2400	
109	WR/SHWR #2	CONC.	FT-1 (12"x12")	-	GWB	PAINT/TILE	GWB	PAINT/TILE	GWB	PAINT/TILE	GWB	PAINT/TILE	EXPOSED	PAINT	2400	
110	WR/SHWR #1	CONC.	FT-1 (12"x12")	-	GWB	PAINT/TILE	GWB	PAINT/TILE	GWB	PAINT/TILE	GWB	PAINT/TILE	EXPOSED	PAINT	2400	
111	JAN.	CONC.	SEALED	RUBBER	GWB	PAINT/TILE	GWB	PAINT/TILE	GWB	PAINT/TILE	GWB	PAINT/TILE	EXPOSED	-	-	
112A	KITCHEN	CONC.	RUBBER	-	GWB/CLT	PAINT	GWB	PAINT	CLT	-	GWB	PAINT/TILE	GYP.	PAINT	2700	
112B	DINING	CONC.	RUBBER	-	CLT	-	GWB	PAINT	CLT	-	GWB	PAINT/TILE	EXPOSED	-	-	
112C	LOUNGE	CONC.	RUBBER	-	CLT	-	GWB	PAINT	CLT/GWB	PAINT	-	-	EXPOSED	-	-	
113	EXERCISE	CONC.	SPORT FLOOR	-	GWB	PAINT	GWB	PAINT	CLT	-	GWB	PAINT	EXPOSED	-	-	MIRROR ON NORTH WALL, BASE TO BE SPORT FLOORING FLASHED UP WALL 300MM A.F.F.
114	REST/STUDY RM #6	CONC.	CARPET	RUBBER	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	A.C.T.	-	2700	
115	REST/STUDY RM #1	CONC.	CARPET	RUBBER	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	A.C.T.	-	2700	
116	REST/STUDY RM #5	CONC.	CARPET	RUBBER	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	A.C.T.	-	2700	
117	REST/STUDY RM #2	CONC.	CARPET	RUBBER	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	A.C.T.	-	2700	
118	REST/STUDY RM #4	CONC.	CARPET	RUBBER	GWB	PAINT	GWB	PAINT	CLT	-	GWB	PAINT	A.C.T.	-	2700	
119	REST/STUDY RM #3	CONC.	CARPET	RUBBER	GWB	PAINT	GWB	PAINT	CLT	-	GWB	PAINT	A.C.T.	-	2700	
120	STOR.	CONC.	RUBBER	-	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	GYP.	PAINT	2400	
121A	CORRIDOR_1	CONC.	RUBBER	-	GWB	PAINT	GWB	PAINT	CLT	-	GWB	PAINT	A.C.T./WD PLANK	-	2700	
121B	CORRIDOR_2	CONC.	RUBBER	-	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	GYP/A.C.T.	PAINT	2700	
121C	CORRIDOR_3	CONC.	RUBBER	-	GWB	PAINT	GWB	PAINT	CLT	-	GWB	PAINT	A.C.T.	-	2700	
131	APPARATUS BAY	CONC.	POLISHED	CAULK JOINT	CLT	-	CLT	-	CLT	-	CLT/CMU	-	EXPOSED	-	-	
131A	RIP & RUN #1	CONC.	POLISHED	-	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	EXPOSED	-	-	
131B	RIP & RUN #2	CONC.	POLISHED	-	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	EXPOSED	-	-	
131C	NORTH VEST	CONC.	FT-2 (24"x12")	TILE/CAULK	GWB	PAINT	GWB	PAINT	GWB	PAINT	CLT	PAINT	WD PLANK	WOOD PANEL	2700	
132	SCBA/FUTURE COMP.	CONC.	EPOXY	-	GWB	PAINT	CLT	-	GWB	PAINT	CLT	-	EXPOSED	-	-	
133	ST. VEST	CONC.	EPOXY	-	GWB	PAINT	GWB	PAINT	CLT	-	GWB	PAINT	EXPOSED	-	-	
134	LNDRY & EXTRACT	CONC.	EPOXY	CAULK JOINT	GWB	PAINT	GWB	PAINT	CLT	-	CLT	-	EXPOSED	-	-	
135	WR	CONC.	EPOXY	-	GWB	PAINT/TILE	GWB	PAINT/TILE	GWB	PAINT/TILE	CLT	-	GYP.	PAINT	2400	
136	HOSE TOWER	CONC.	EPOXY	-	GWB	PAINT	GWB	PAINT	CLT	-	GWB	PAINT	EXPOSED	-	-	
137	DECON.	CONC.	EPOXY	-	CMU	EPOXY	CMU	EPOXY	CMU	EPOXY	GWB	TILE	EXPOSED	-	-	
138	WORKSHOP	CONC.	POLISHED	-	CMU	PAINT	CMU	PAINT	CMU	EPOXY	CMU	EPOXY	EXPOSED	-	-	
139	TRENCH	CONC.	POLISHED	-	CMU	EPOXY	CMU	EPOXY	CMU	EPOXY	CMU	EPOXY	EXPOSED	-	-	
140	BUNKER GEAR RM	CONC.	POLISHED	-	CMU	EPOXY	CMU	EPOXY	CMU	EPOXY	CMU	EPOXY	EXPOSED	-	3450	
141	GROUPS STOR.	CONC.	SEALED	CAULK JOINT	CLT	-	CMU	EPOXY	CMU	EPOXY	CLT	-	GYP.	PAINT	3450	
142	MECH. / SPKLR. / ELEC.	CONC.	SEALED	-	CLT	-	GWB	PAINT	CLT	-	CLT	-	EXPOSED	-	-	
202	MECH. MEZZ	CONC.	SEALED	-	CLT	-	GWB	PAINT	GWB	PAINT	CLT	-	EXPOSED	-	-	
203	TRENCH. MEZZ	CONC.	SEALED	-	GWB	PAINT	-	-	GWB	PAINT	CLT	-	EXPOSED	-	-	

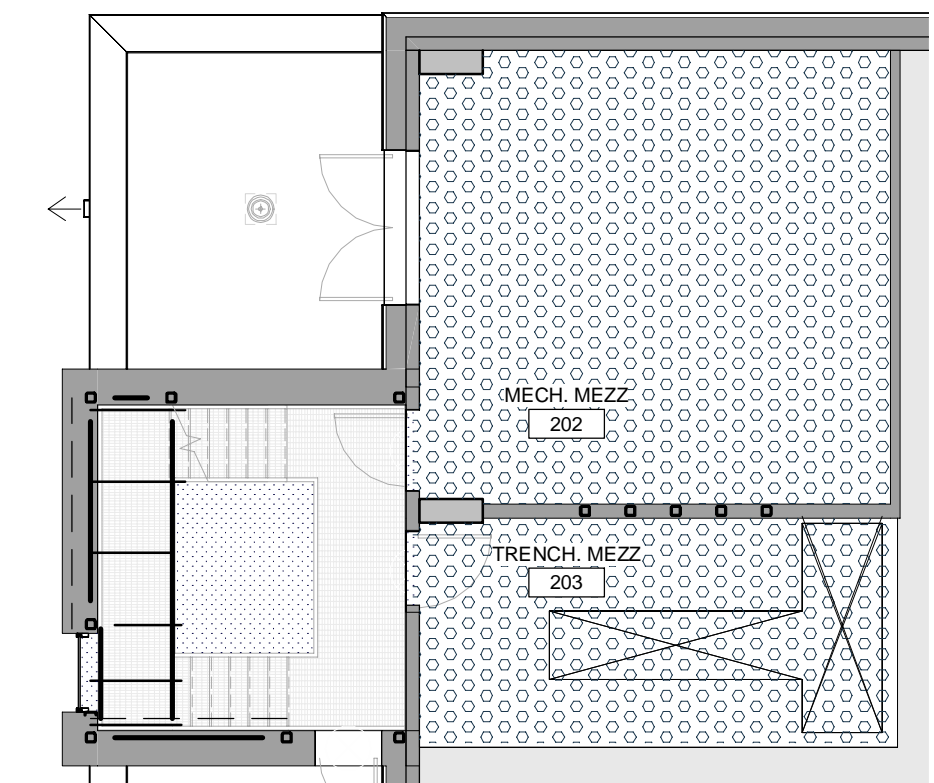
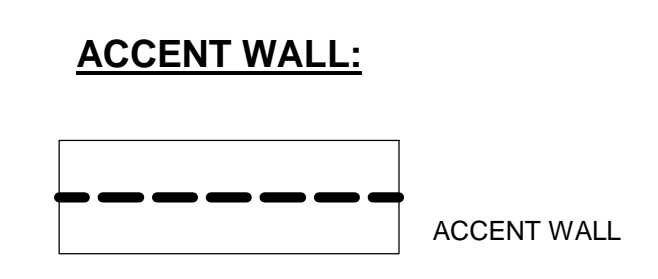


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ISSUE / REVISIONS

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WALL FINISHES			
*REFER TO ROOM FINISH SCHEDULES AND INTERIOR ELEVATION DRAWINGS FOR EXTENT OF INTERIOR WALL FINISHES AND ACCENTS.			
TYPE	DESCRIPTION	PURPOSE	Comments
WT-1	WALL TILE 12" x 24"	FINISHES	
WT-2	WALL TILE 4" x 16"	FINISHES	
WT-3	PENNY TILE	FINISHES	



2 MEZZANINE FLOOR - FINISHES
A-605 REF: A-301 Scale: 1 : 100

- FLOOR FINISHES**
- ANTI-STATIC
 - CARPET
 - EPOXY
 - FT-1 (12"x12")
 - FT-2 (24"x12")
 - POLISHED
 - RUBBER
 - SEALED
 - SPORT FLOOR



1 FIRST FLOOR - FINISHES
A-605 REF: A-201 Scale: 1 : 100



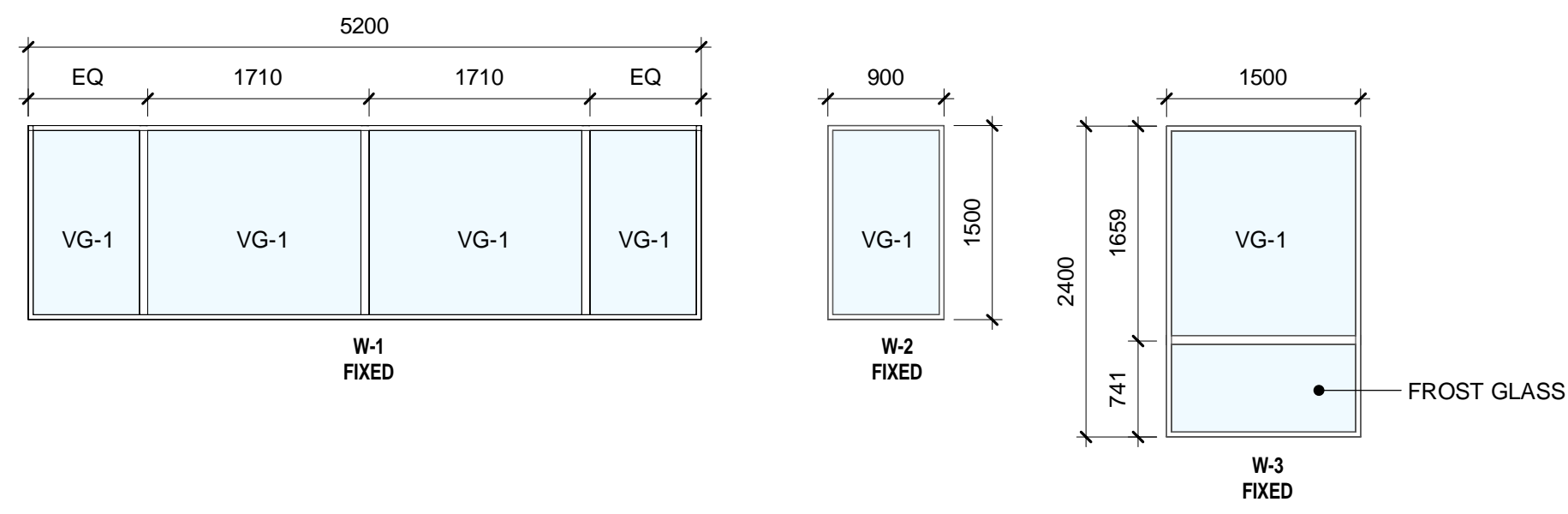
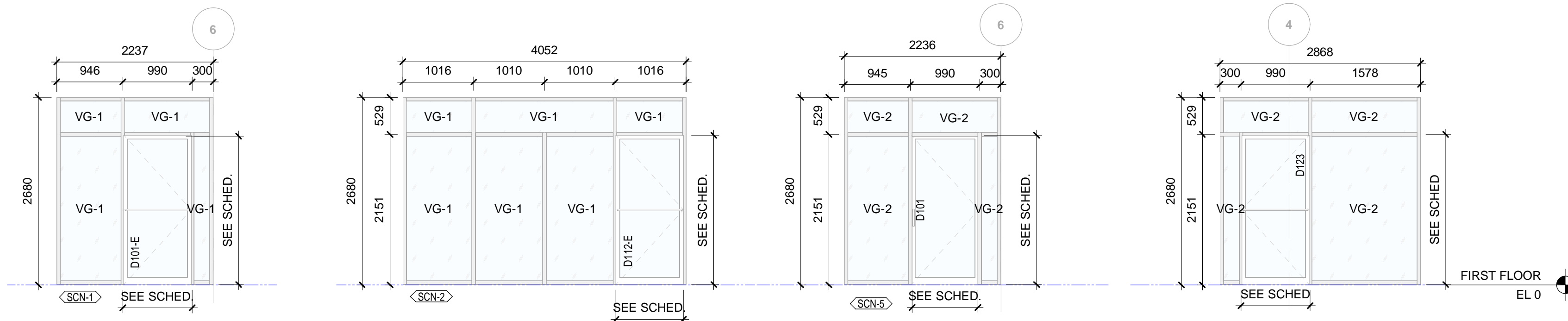
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PROJECT No. 21-100
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**City of Peterborough
FIRE STATION NO. 2**

(Municipal File No. SPC 1009)
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K9H 6M6

ROOM SCHEDULE AND FLOOR FINISH PLAN

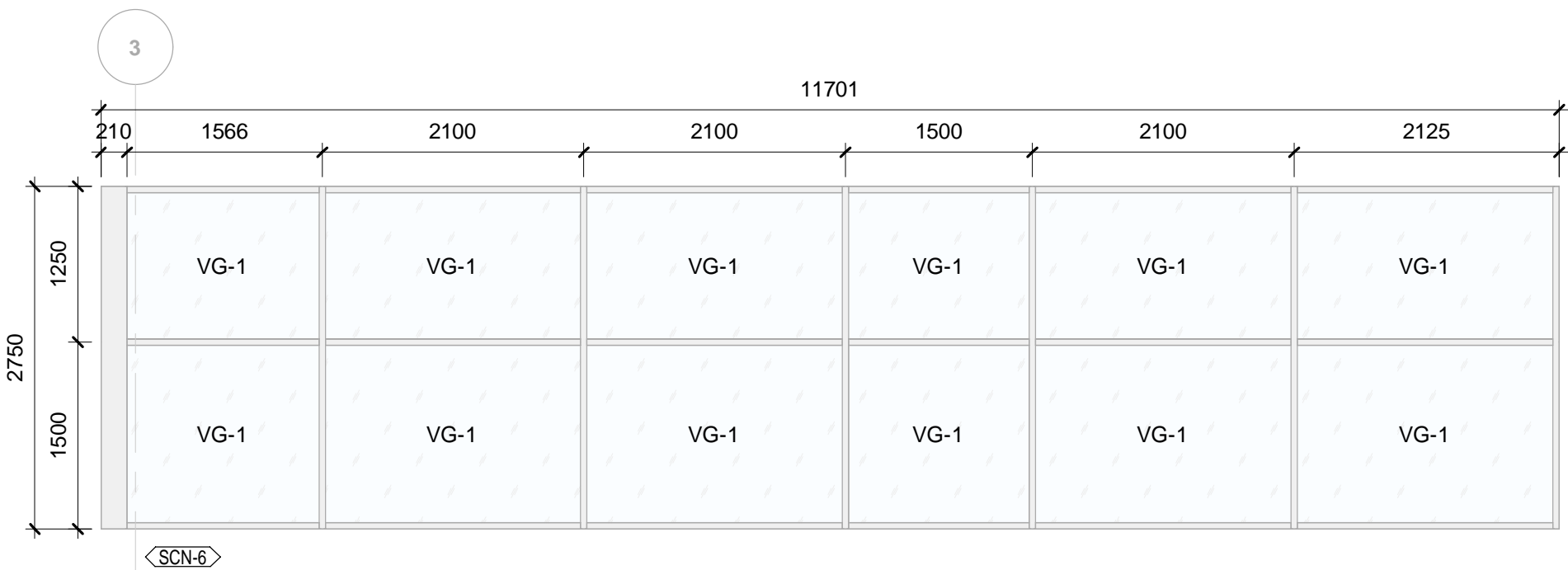


1 | SCN-1 A-621 REF: A-404 Scale: 1 : 50
2 | SCN-2 A-621 REF: Scale: 1 : 50
5 | SCN-5 A-621 REF: Scale: 1 : 50
11 | SCN-11 A-621 REF: Scale: 1 : 50

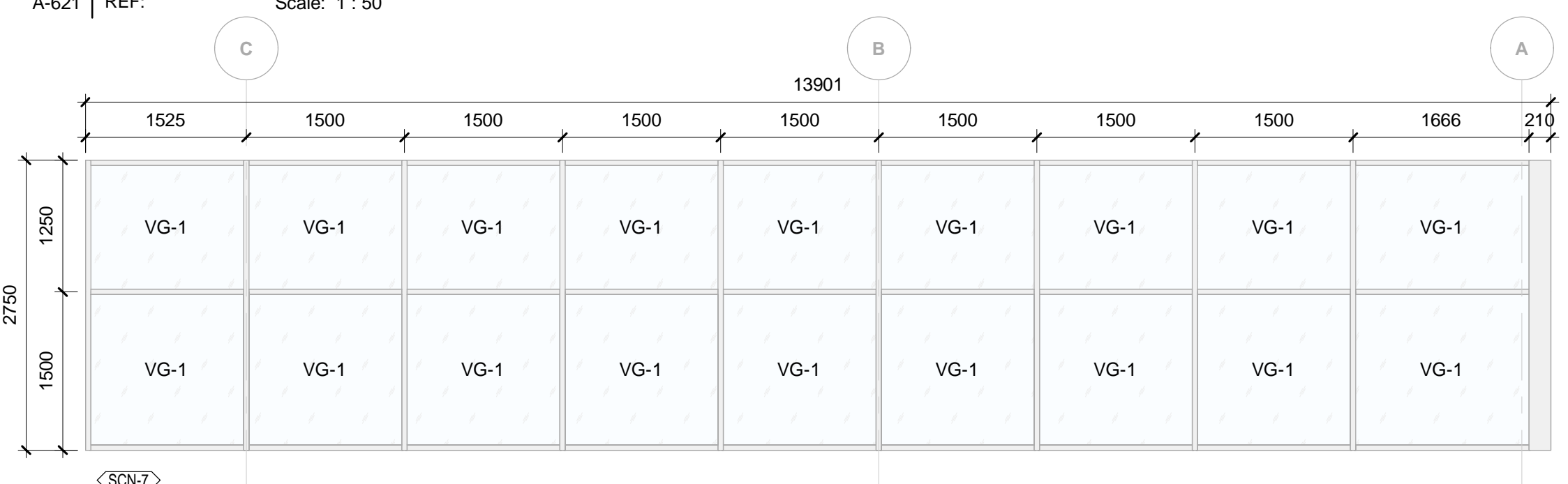
WINDOW TYPES
 REF: Scale: 1 : 50

WINDOW SCHEDULE					
NAME	DIMENSIONS		LOCATION	FRAME FINISH	DESCRIPTION
	Width	Height			
W-1	5200	1500	Exterior	PREFIN.	ALUM. FRAME, 1 LITE, FIXED WINDOW
W-2	900	1500	Exterior	PREFIN.	ALUM. FRAME, 2 LITE, FIXED WINDOW
W-3	1500	2340	Exterior	PREFIN.	ALUM. FRAME, 2 LITE, FIXED WINDOW

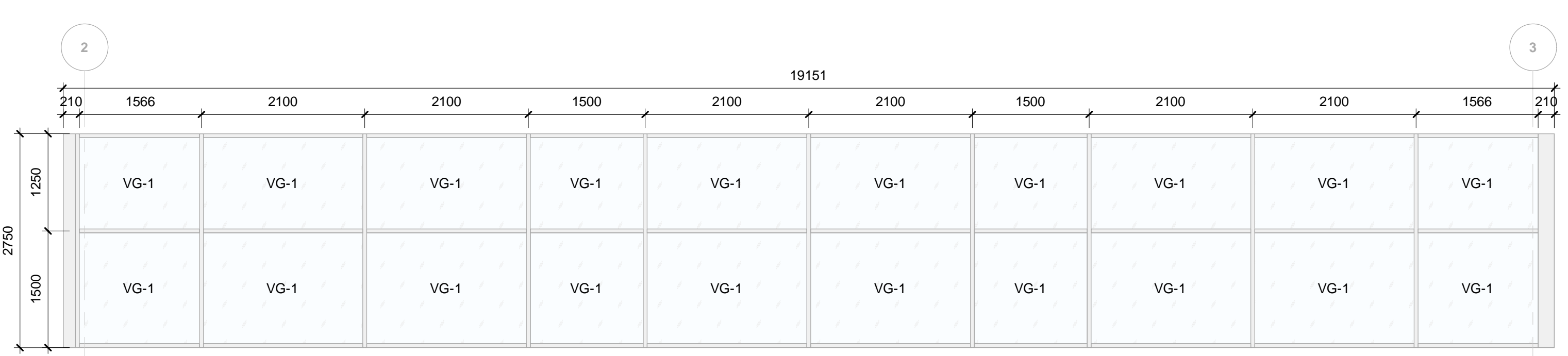
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3	Issued for Tender Aug.18.22



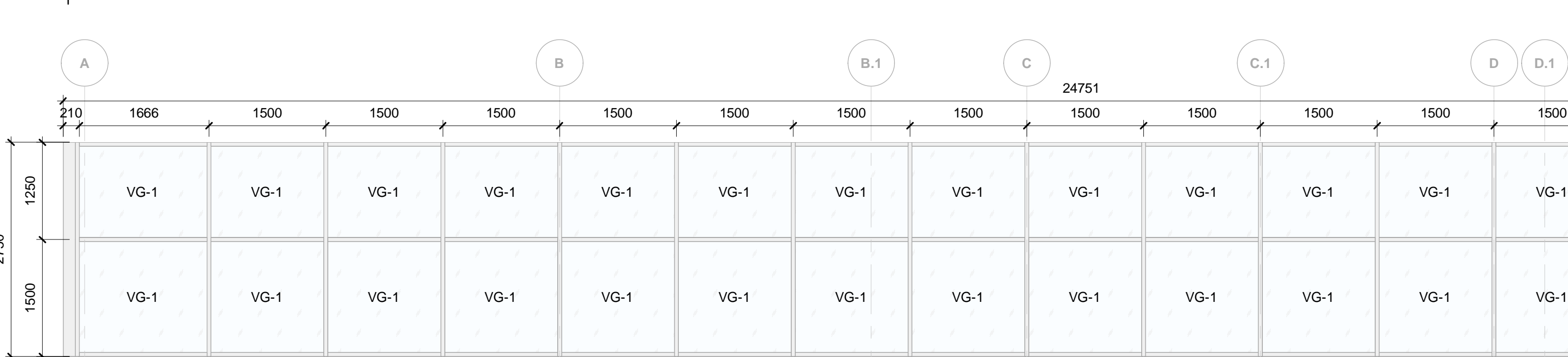
3 | SCN-3 A-621 REF: Scale: 1 : 50



6 | SCN-6 A-621 REF: Scale: 1 : 50



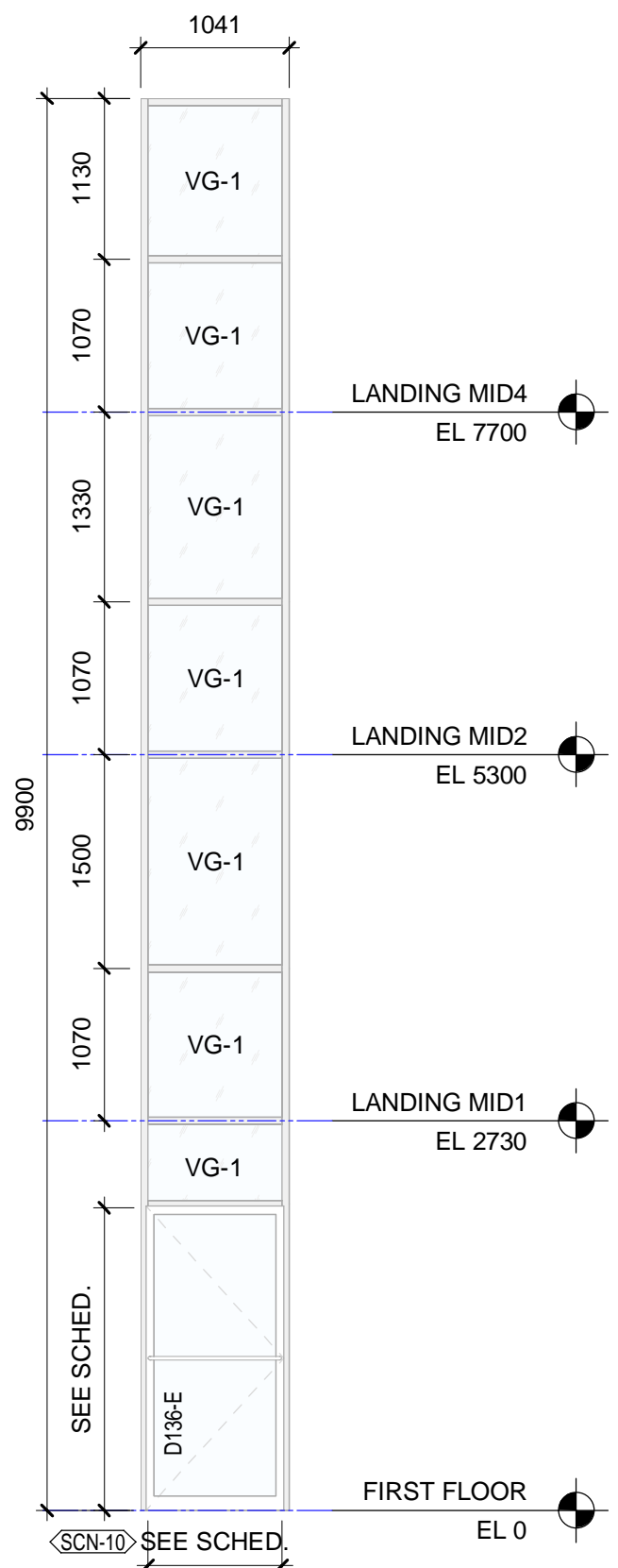
7 | SCN-7 A-621 REF: Scale: 1 : 50



8 | SCN-8 A-621 REF: Scale: 1 : 50



9 | SCN-9 A-621 REF: Scale: 1 : 50



10 | SCN-10 A-621 REF: A-401 Scale: 1 : 50

SCREEN SCHEDULE						
NOTE: 1. SCREENS TAGGED WITH * ARE SIMILAR CONFIGURATIONS. 2. DOUBLE MULLIONS AT DOOR HEAD WITH AUTOMATIC DOOR OPERATORS....						
NAME	FACADE	TYPE	FRR	LOCATION	FRAME	Comments
SCN-1	SOUTH-1	FIXED GLASS IN ALUM. FRAME		Exterior	PREFIN.	
SCN-2	NORTH-1	FIXED GLASS IN ALUM. FRAME		Exterior	PREFIN.	
SCN-6	NORTH-2	FIXED GLASS IN ALUM. FRAME		Exterior	PREFIN.	
SCN-7	WEST-2	FIXED GLASS IN ALUM. FRAME		Exterior	PREFIN.	
SCN-8	SOUTH-1	FIXED GLASS IN ALUM. FRAME		Exterior	PREFIN.	
SCN-9	EAST-2	FIXED GLASS IN ALUM. FRAME		Exterior	PREFIN.	
SCN-10	WEST-1	FIXED GLASS IN ALUM. FRAME		Exterior	PREFIN.	
SCN-5	INTERIOR	INTERIOR SCREEN		Interior		
SCN-11	INTERIOR	INTERIOR SCREEN		Interior		

GLASS TYPE	
NAME	TYPE
VG-1	VISION GLASS, EXTERIOR (IGU)
VG-2	VISION GLASS, INTERIOR



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CONSTRUCTION DOCUMENTATION
 PROJECT No. 21-100
 START DATE OCT.2021

**City of Peterborough
 FIRE STATION NO. 2**

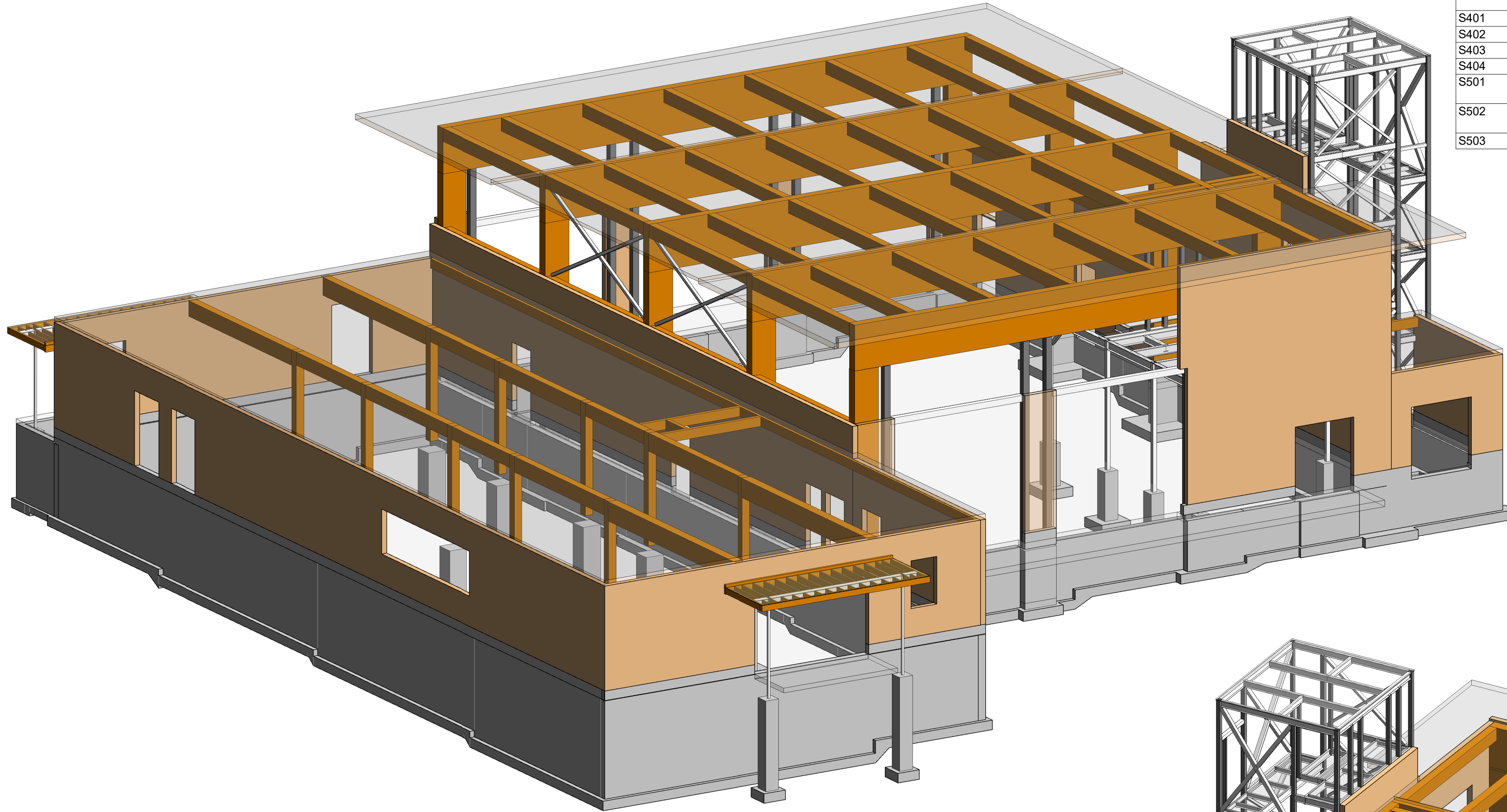
(Municipal File No. SPC 1009)
 100 Marina Boulevard, Peterborough ON
 K9H 6M6

SCREEN AND WINDOW SCHEDULE

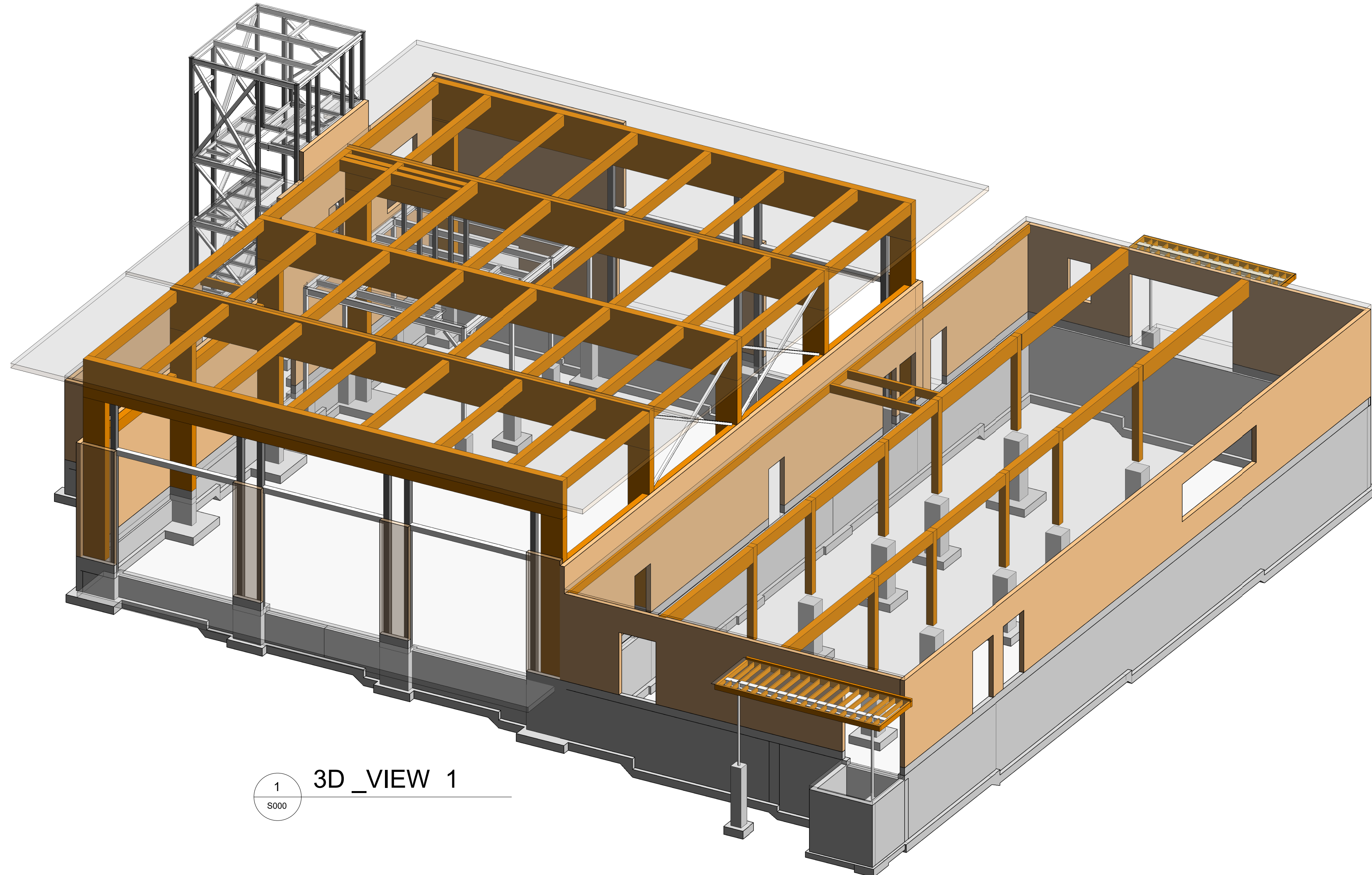
A-621

Sheet List													
Sheet Number	Sheet Name	Sheet_Group . Header	Sheet_Group. Sort	Sheet_Group. Header	Sheet_Group. Sort	Sheet_Group. Sort. Sub	Sheet Issue Date	Current Revision	Current Revision Date	Current Revision Description	Designed By	Drawn By	Approved By
S000	COVER SHEET	STRUCTURAL	09-03	STRUCTURAL	09-03		06/08/21	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK
S101	FOUNDATION PLAN	STRUCTURAL	09-03	STRUCTURAL	09-03		06/08/21	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK
S102	ROOF FRAMING PLAN & MEZZANINE FRAMING PLAN	STRUCTURAL	09-03	STRUCTURAL	09-03		06/08/21	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK
S201	SCHEDULES	STRUCTURAL	09-03	STRUCTURAL	09-03		06/08/21	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK
S202	LOADING DIAGRAMS	STRUCTURAL	09-03	STRUCTURAL	09-03		01/19/22	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK
S301	HOSE TOWER FRAMING PLANS AND ELEVATIONS	STRUCTURAL	09-03	STRUCTURAL	09-03		10/18/21	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK
S401	SECTIONS	STRUCTURAL	09-03	STRUCTURAL	09-03		06/08/21	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK
S402	SECTIONS	STRUCTURAL	09-03	STRUCTURAL	09-03		10/04/21	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK
S403	DETAILS	STRUCTURAL	09-03	STRUCTURAL	09-03		02/01/22	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK
S404	SECTIONS	STRUCTURAL	09-03	STRUCTURAL	09-03		10/04/21	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK
S501	GENERAL NOTES AND TYPICAL DETAILS	STRUCTURAL	09-03	STRUCTURAL	09-03		10/25/21	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK
S502	GENERAL NOTES AND TYPICAL DETAILS	STRUCTURAL	09-03	STRUCTURAL	09-03		10/25/21	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK
S503	CLT PANEL TYPICAL DETAILS	STRUCTURAL	09-03	STRUCTURAL	09-03		10/05/21	5	AUG 18, 22	ISSUED FOR TENDER	DK	OH	DK

ISSUE / REVISIONS	
1	ISSUED FOR DESIGN SIGN-OFF OCT 27, 21
2	ISSUED FOR COORDINATION FEB 16, 22
3	ISSUED FOR PERMIT REVIEW FEB 25, 22
4	ISSUED FOR BUILDING PERMIT MAR 21, 22
5	ISSUED FOR TENDER AUG 18, 22



2 3D_VIEW 2
S000



1 3D_VIEW 1
S000

STRUCTURAL ELEMENTS AND THEIR CONFIGURATION DETAILS ARE PRESENTED IN THE 3D MODEL VIEW FOR TENDERING OR CONSTRUCTION PURPOSES AND ARE FOR INFORMATION ONLY.



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Contract Documentation

PROJECT No. 2153
START DATE Issue Date

CITY OF
PETERBOROUGH
FIRE STATION NO.2

100 Marina Boulevard
Peterborough, Ontario
COVER SHEET

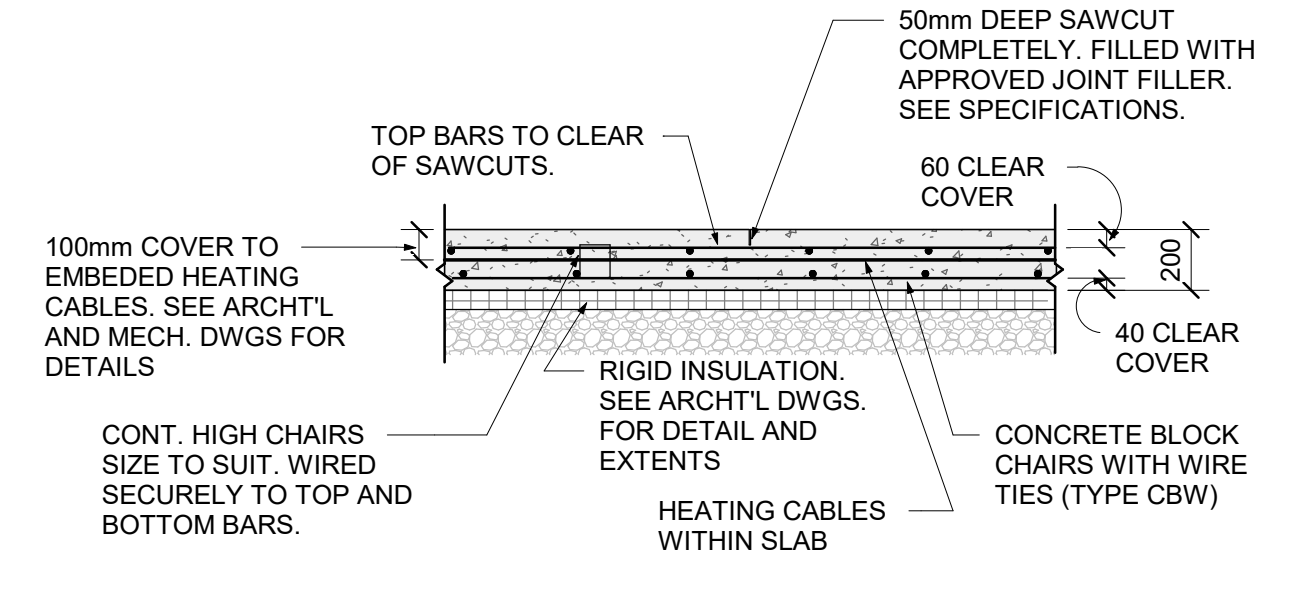
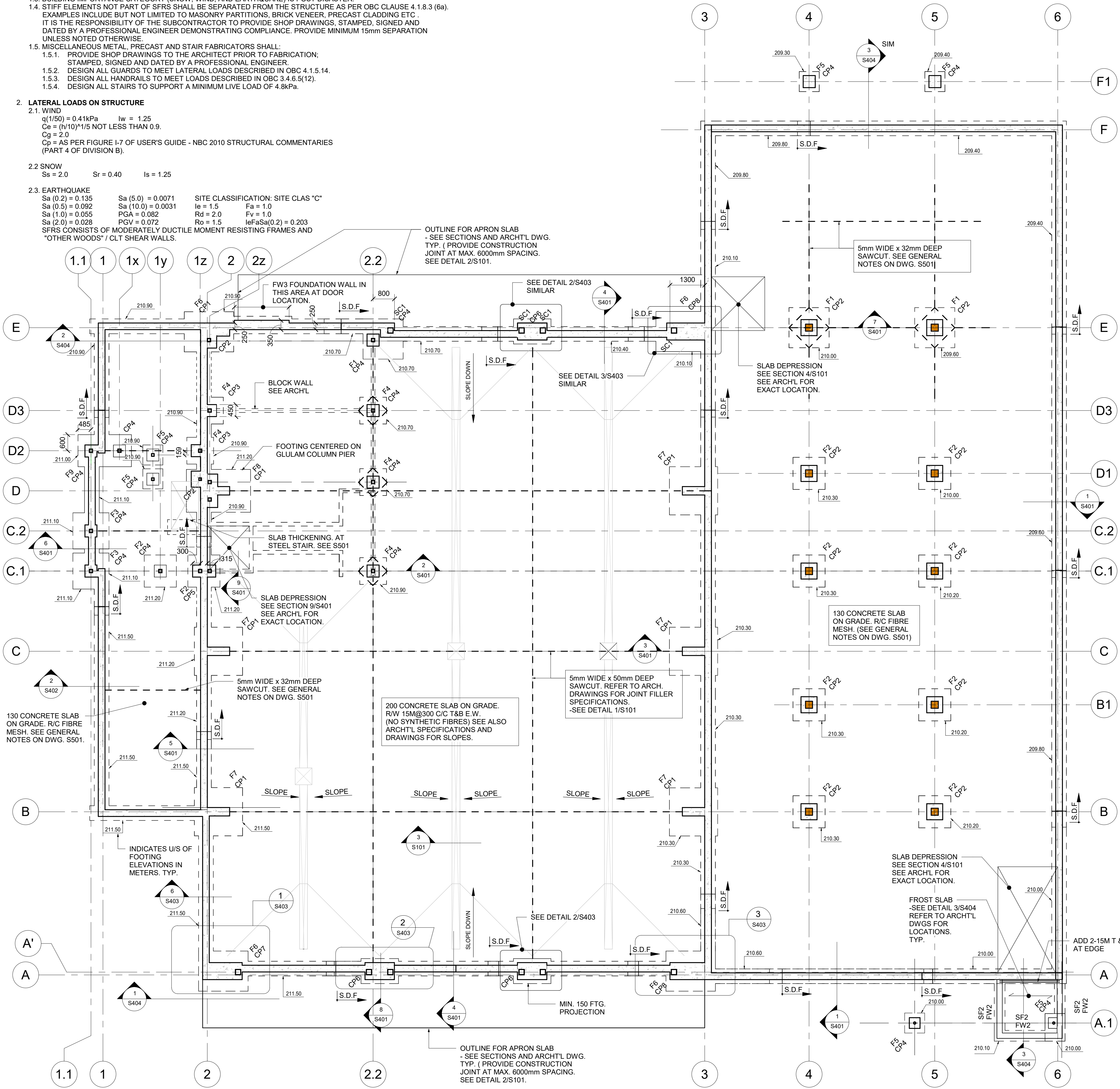
S000

DESIGN CRITERIA NOTES

- GENERAL
 - THE PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 OBC (O. REG. 332/12 AS AMENDED) WHICH IS BASED ON THE NATIONAL BUILDING CODE OF CANADA 2015 INCLUDING CLAUSES 4.1.6.1(1), 4.1.6.4(3), 4.1.7 AND 4.1.8.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHO IS SUPPLYING AND INSTALLING EQUIPMENT, THAT ALL ELEMENTS OF STRUCTURES LISTED IN TABLE 4.1.8.18 OF THE OBC 2012 ARE DESIGNED IN ACCORDANCE WITH CLAUSE 4.1.8.18.
 - BUILDING IMPORTANCE CATEGORY (SNOW, WIND, AND EARTHQUAKE) IS POST DISASTER.
 - STIFF ELEMENTS NOT PART OF SFRS SHALL BE SEPARATED FROM THE STRUCTURE AS PER OBC CLAUSE 4.1.8.3 (6a). EXAMPLES INCLUDE BUT NOT LIMITED TO MASONRY PARTITIONS, BRICK VENEER, PRECAST CLADDING ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE SHOP DRAWINGS, STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER DEMONSTRATING COMPLIANCE. PROVIDE MINIMUM 15mm SEPARATION UNLESS NOTED OTHERWISE.
 - MISCELLANEOUS METAL, PRECAST AND STAIR FABRICATORS SHALL:
 - PROVIDE SHOP DRAWINGS TO THE ARCHITECT PRIOR TO FABRICATION; STAMPED, SIGNED AND DATED BY A PROFESSIONAL ENGINEER.
 - DESIGN ALL GUARDS TO MEET LATERAL LOADS DESCRIBED IN OBC 4.1.5.14.
 - DESIGN ALL HANDRAILS TO MEET LOADS DESCRIBED IN OBC 3.4.6.5(12).
 - DESIGN ALL STAIRS TO SUPPORT A MINIMUM LIVE LOAD OF 4.8kPa.
- LATERAL LOADS ON STRUCTURE
 - WIND
 - $q(1/50) = 0.41kPa$ $I_w = 1.25$
 $C_e = (h/10)^{1/5}$ NOT LESS THAN 0.9.
 $C_p = 2.0$
 $C_g = AS PER FIGURE I-7 OF USER'S GUIDE - NBC 2010 STRUCTURAL COMMENTARIES (PART 4 OF DIVISION B).$
 - SNOW
 - $S_s = 2.0$ $S_r = 0.40$ $I_s = 1.25$
 - EARTHQUAKE

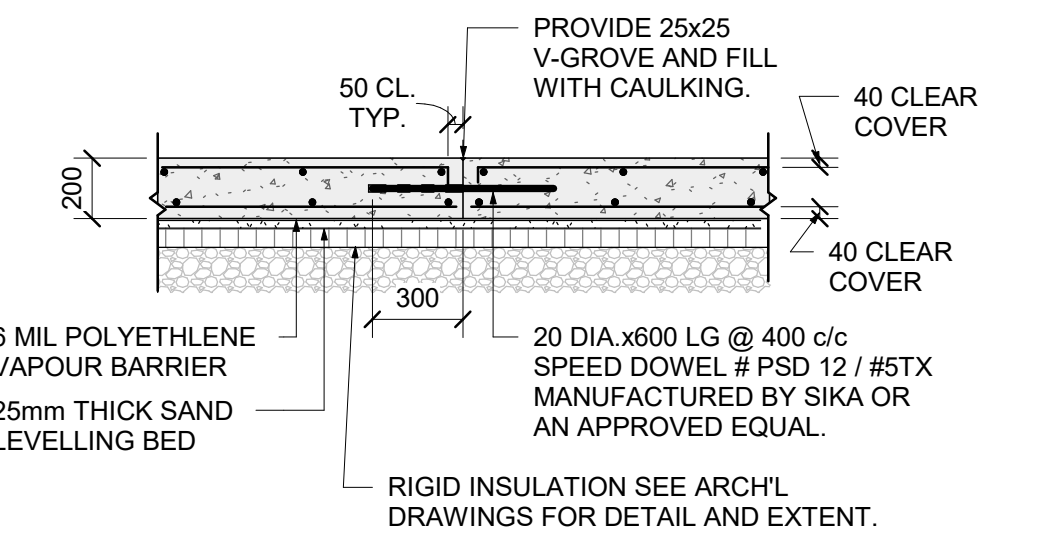
$S_a(0.2) = 0.135$	$S_a(5.0) = 0.0071$	SITE CLASSIFICATION: SITE CLAS "C"
$S_a(0.5) = 0.092$	$S_a(10.0) = 0.0031$	$I_e = 1.5$ $F_a = 1.0$
$S_a(1.0) = 0.055$	$PGA = 0.082$	$R_d = 2.0$ $F_v = 1.0$
$S_a(2.0) = 0.028$	$PGV = 0.072$	$R_o = 1.5$ $I_e F_a S_a(0.2) = 0.203$

SFRS CONSIST OF MODERATELY DUCTILE MOMENT RESISTING FRAMES AND "OTHER WOODS" / CLT SHEAR WALLS.

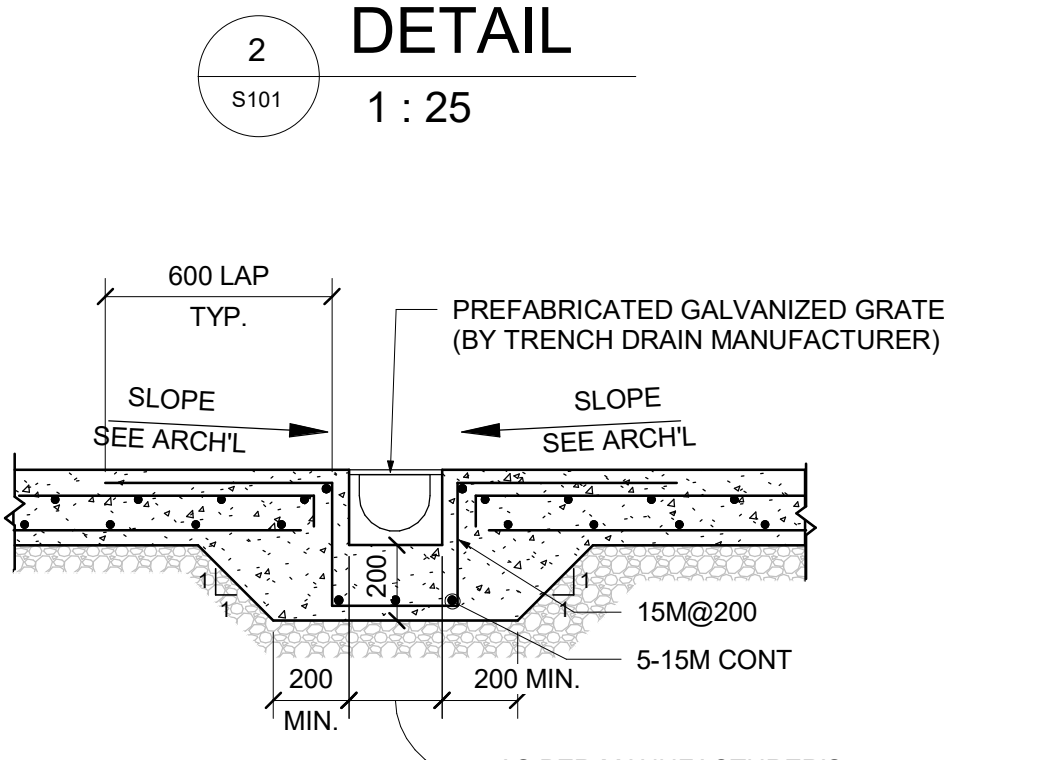


NOTES:
1. MAXIMUM SPACING OF BOTTOM AND TOP CHAIRS 1200 c/c.

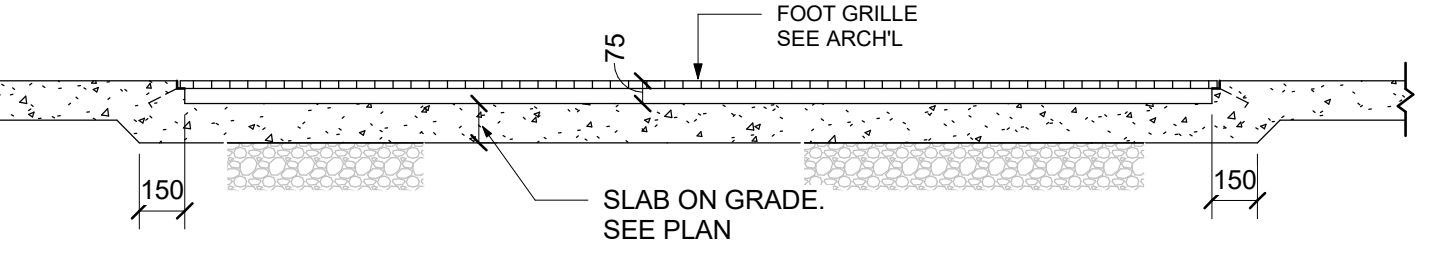
1
S101
1 : 25



2
S101
1 : 25



3
S101
1 : 20



4
S101
1 : 25

A
S101
1 : 75

- FOUNDATION PLAN**
- NOTES:
- TOP OF CONCRETE SLAB AT GROUND IS AT ELEVATION 0.0 (DATUM) (GEODETIC ELEVATION = 212.80) UNLESS CROSS AND NOTED OTHERWISE ON PLAN AND/OR SECTIONS.
 - ALL FOOTINGS TO BE BEAR ON BEDROCK CAPABLE OF SUPPORTING A BEARING PRESSURE OF 300 KPa (ULS).
 - ALL FOUNDATION WALLS TO BE TYPE FW1 U.N.O. ALL STRIP FOOTINGS TO BE TYPE SF1 U.N.O. REFER TO SCHEDULE ON DWG. S201 FOR FOUNDATION WALL AND STRIP FOOTING REINFORCING.
 - S.D.F INDICATES STEP DOWN FOOTING. SEE TYP. DETAIL ON DWG. S501. STEP DOWN FOOTING AS REQUIRED TO SUIT MECH/ELEC SERVICES SUCH THAT FOOTINGS ARE NOT UNDERMINED.
 - PLACE SLAB ON GRADE ON COMPACTED GRANULAR BACKFILL AS RECOMMENDED BY SOIL CONSULTANT.
 - SEE ARCH'TL DRAWINGS FOR DIMENSIONS, ELEVATIONS AND SLOPES.
 - ACTUAL FOOTING ELEVATIONS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER FOR DESIGN BEARING CAPACITY NOTED ON THE DWG S501. ALL DESIGN BEARING CAPACITIES TO BE CONFIRMED ON SITE BY GEOTECHNICAL ENGINEER PRIOR TO POURING CONCRETE FOOTINGS.
 - SEE ALSO SCHEDULES, GENERAL NOTES AND TYPICAL DETAILS ON DRAWINGS S201, S501, S502 AND S503.

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3 ISSUED FOR PERMIT REVIEW	FEB 25, 22
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5 ISSUED FOR TENDER	AUG 18, 22



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Contract Documentation
PROJECT No. 2153
START DATE Issue Date

CITY OF
PETERBOROUGH
FIRE STATION NO.2

100 Marina Boulevard
Peterborough, Ontario
FOUNDATION PLAN

ROOF FRAMING PLAN

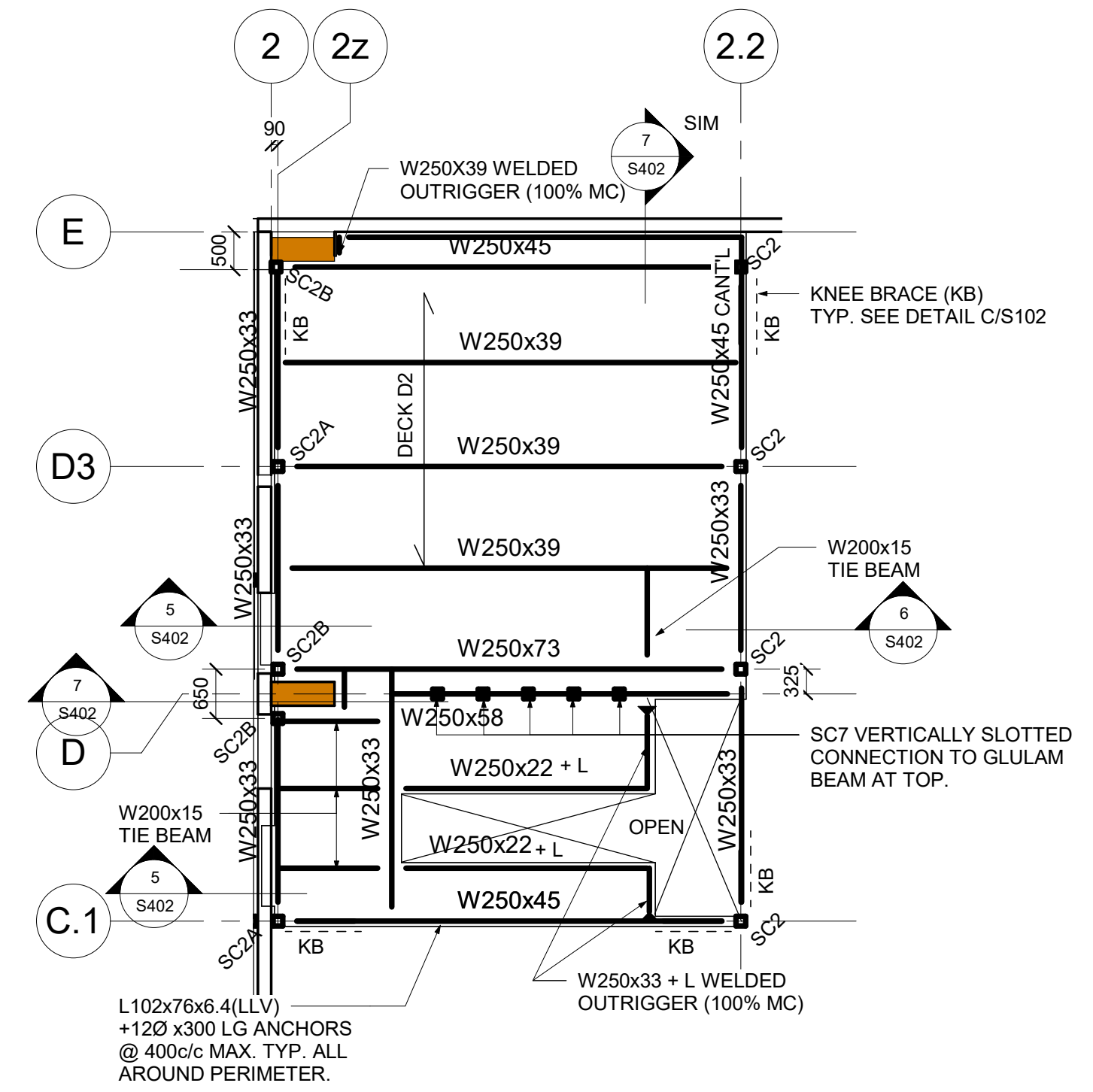
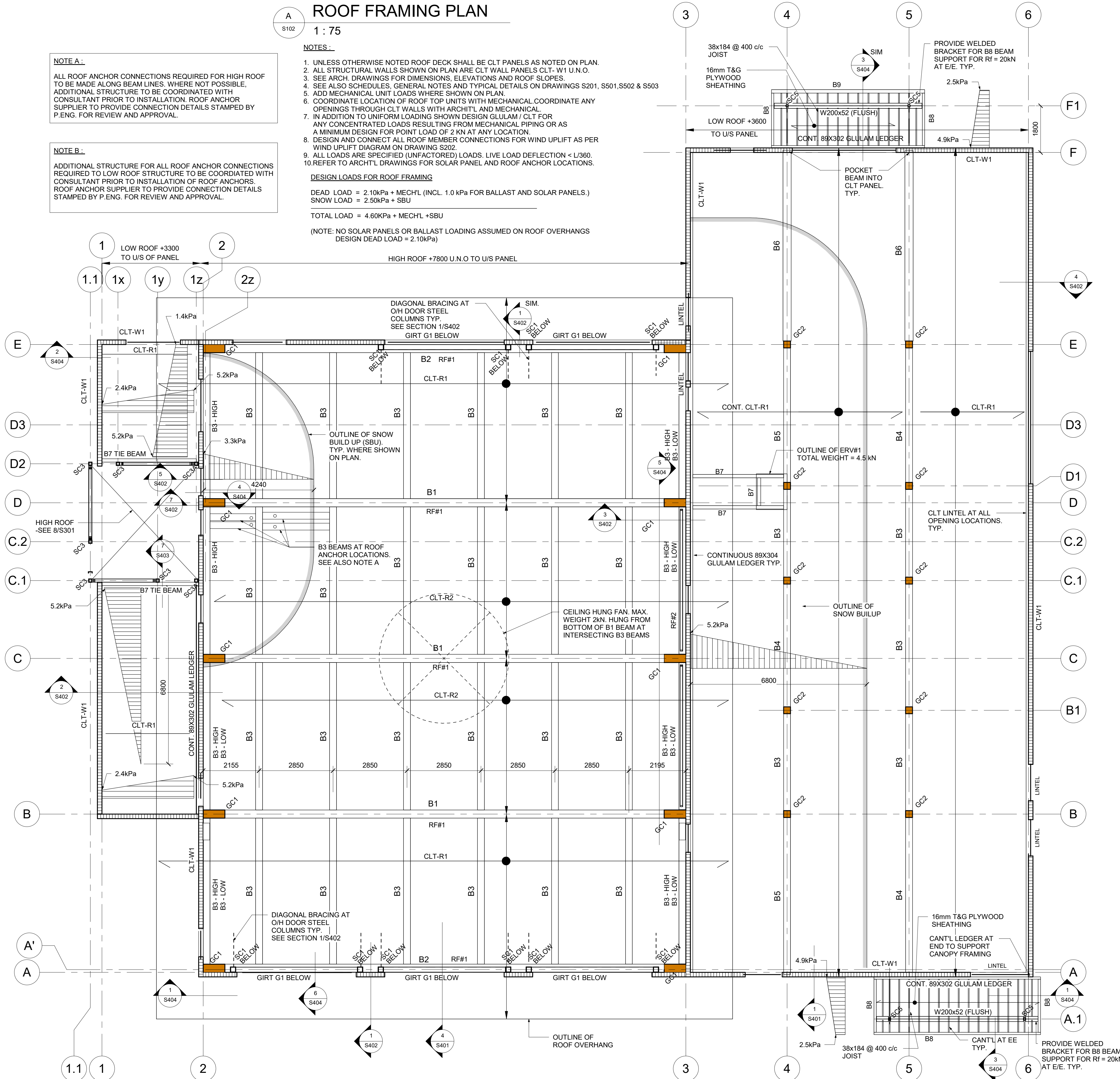
1:75

NOTE A:
ALL ROOF ANCHOR CONNECTIONS REQUIRED FOR HIGH ROOF TO BE MADE ALONG BEAM LINES. WHERE NOT POSSIBLE, ADDITIONAL STRUCTURE TO BE COORDINATED WITH CONSULTANT PRIOR TO INSTALLATION. ROOF ANCHOR SUPPLIER TO PROVIDE CONNECTION DETAILS STAMPED BY P.ENG. FOR REVIEW AND APPROVAL.

NOTE B:
ADDITIONAL STRUCTURE FOR ALL ROOF ANCHOR CONNECTIONS REQUIRED TO LOW ROOF STRUCTURE TO BE COORDINATED WITH CONSULTANT PRIOR TO INSTALLATION OF ROOF ANCHORS. ROOF ANCHOR SUPPLIER TO PROVIDE CONNECTION DETAILS STAMPED BY P.ENG. FOR REVIEW AND APPROVAL.

- NOTES:**
- UNLESS OTHERWISE NOTED ROOF DECK SHALL BE CLT PANELS AS NOTED ON PLAN.
 - ALL STRUCTURAL WALLS SHOWN ON PLAN ARE CLT WALL PANELS CLT-W1 U.N.O.
 - SEE ARCH. DRAWINGS FOR DIMENSIONS, ELEVATIONS AND ROOF SLOPES.
 - SEE ALSO SCHEDULES, GENERAL NOTES AND TYPICAL DETAILS ON DRAWINGS S201, S501, S502 & S503
 - ADD MECHANICAL UNIT LOADS WHERE SHOWN ON PLAN.
 - COORDINATE LOCATION OF ROOF TOP UNITS WITH MECHANICAL. COORDINATE ANY OPENINGS THROUGH CLT WALLS WITH ARCHIT'L AND MECHANICAL.
 - IN ADDITION TO UNIFORM LOADING SHOWN DESIGN GLULAM / CLT FOR ANY CONCENTRATED LOADS RESULTING FROM MECHANICAL PIPING OR AS A MINIMUM DESIGN FOR POINT LOAD OF 2 kN AT ANY LOCATION.
 - DESIGN AND CONNECT ALL ROOF MEMBER CONNECTIONS FOR WIND UPLIFT AS PER WIND UPLIFT DIAGRAM ON DRAWING S202.
 - ALL LOADS ARE SPECIFIED (UNFACTORED) LOADS. LIVE LOAD DEFLECTION < L/360.
 - REFER TO ARCHIT'L DRAWINGS FOR SOLAR PANEL AND ROOF ANCHOR LOCATIONS.

DESIGN LOADS FOR ROOF FRAMING
DEAD LOAD = 2.10kPa + MECH'L (INCL. 1.0 kPa FOR BALLAST AND SOLAR PANELS)
SNOW LOAD = 2.50kPa + SBU
TOTAL LOAD = 4.60kPa + MECH'L +SBU
(NOTE: NO SOLAR PANELS OR BALLAST LOADING ASSUMED ON ROOF OVERHANGS
DESIGN DEAD LOAD = 2.10kPa)



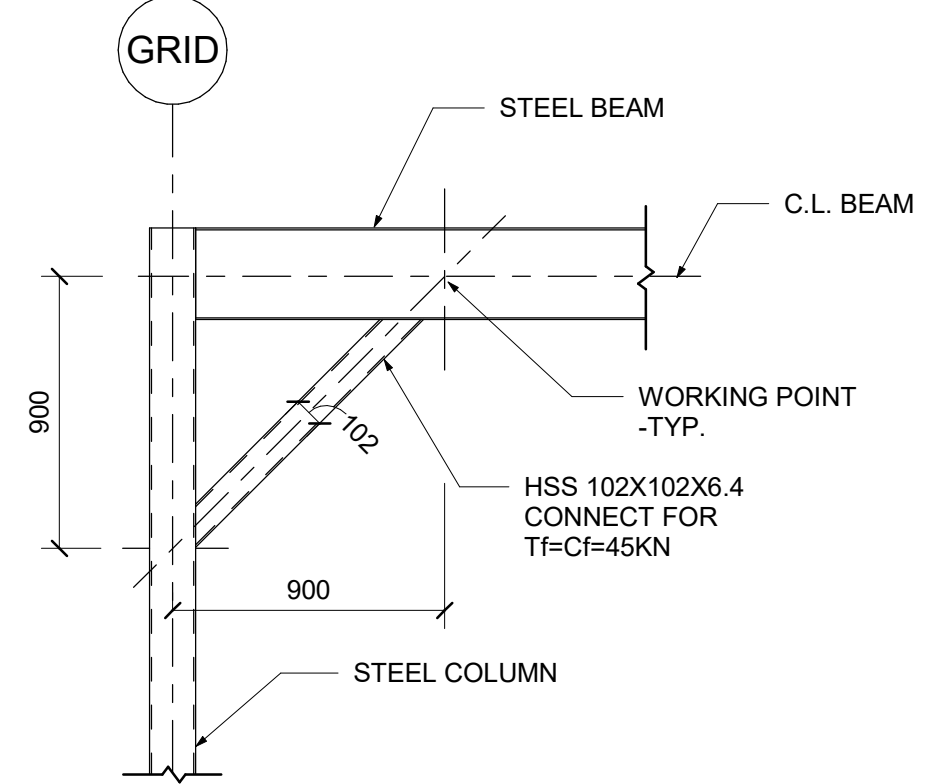
MEZZANINE FRAMING PLAN

1:75

- NOTES:**
- TOP OF MEZZANINE SLAB IS AT ELEVATION +3900 FROM GROUND FLOOR. UNLESS NOTED OTHERWISE ON PLAN AND/OR SECTIONS.
 - TOP OF STEEL BEAM 100 BELOW TOP OF CONCRETE DECK UNLESS THERWISE ON PLAN /OR SECTIONS.
 - SEE ARCH. DRAWINGS FOR DIMENSIONS, ELEVATIONS AND SLOPES.
 - SEE MECHANICAL DRAWINGS FOR ALL EQUIPMENT LAYOUT ON MEZZANINE FLOOR.
 - SEE ALSO SCHEDULES, GENERAL NOTES AND TYPICAL DETAILS ON DRAWINGS S201, S501, S502 AND S503

DESIGN LOADS FOR MEZZANINE
DEAD LOAD = 2.86 kPa + EQUIPMENT + CONC. PAD
LIVE LOAD = 4.80 kPa
TOTAL LOAD = 7.66 kPa + EQUIPMENT + CONC. PAD

(NOTE: ALL EQUIPMENTS ASSUMED TO BE MOUNTED ON 100mm THICK CONCRETE HOUSE KEEPING PAD)



KNEE BRACE (KB) DETAIL

1:25

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Contract Documentation
PROJECT No. 2153
START DATE Issue Date

CITY OF PETERBOROUGH
FIRE STATION NO.2

100 Marina Boulevard
Peterborough, Ontario
ROOF FRAMING PLAN & MEZZANINE FRAMING PLAN

STEEL COLUMN SCHEDULE				
MARK	SIZE	BASEPLATE	ANCHOR BOLTS	BASEPLATE DETAIL
SC1	HSS 203x203x8.0 (PROVIDE VERTICAL SLOTTED CONNECTION AT TOP TO ACCOMMODATE 50MM MOVEMENT..)	350x20x350	3-19Ø X 450mm LONG ABS. (50 HOOK)	
SC2	HSS 127x127x6.4	280x20x280	4-19Ø X 450mm LONG ABS. (50 HOOK)	
SC2A	HSS 127x127x6.4	280x20x280	4-19Ø X 450mm LONG ABS. (50 HOOK)	
SC2B	HSS 127x127x6.4	280x20x280	3-19Ø X 450mm LONG ABS. (50 HOOK)	
SC3	HSS 127x127x6.4	280x20x280	4-25Ø X 450mm LONG ABS. (50 HOOK)	
SC3A	HSS 127x127x6.4	280x20x280	4-25Ø X 450mm LONG ABS. (50 HOOK)	
SC4	HSS 102x102x6.4	250x20x250	4-19Ø X 450mm LONG ABS. (50 HOOK)	
SC5	HS89DIA.x6.4 ROUND	250x20x250	4-19Ø X 450mm LONG ABS. (50 HOOK)	
SC6	HSS 127x127x6.4	WELD TO BEAM BELOW (VERTICALLY SLOTTED TO STEEL BEAM AT TOP)		
SC7	HSS 127x127x6.4	WELD TO BEAM BELOW (VERTICALLY SLOTTED TO GLULAM BEAM AT TOP)		

NOTES:

- UNDER ALL COLUMN BASE PLATES PROVIDE 6MM LEVELING PLATE AND 44MM NON-SHRINK GROUT. LEVELING PLATE SHALL PROJECT 12MM BEYOND COLUMN BASE PLATE ALL AROUND
- ALL EXTERIOR STEEL COLUMNS, BASE PLATES, ANCHOR BOLTS ETC. SHALL BE HOT DIPPED GALVANIZED DURING STEEL FABRICATION.

PIER SCHEDULE		
MARK	SIZE	PIER CONFIGURATION
CP1	1086x315 CONC. PIER +12-20M VERT +5-10M@300 C/C TIES +2 TIES @ TOP	
CP2	600x600 CONC. PIER +8-20M VERT +3-10M@300 C/C TIES +2 TIES @ TOP	
CP3	600x450 CONC. PIER +8-15M VERT +3-10M@300 C/C TIES +2 TIES @ TOP	
CP4	450x450 CONC. PIER +8-15M VERT +3-10M@300 C/C TIES +2 TIES @ TOP	
CP5	865x450 CONC. PIER +12-15M VERT +3-10M@300 C/C TIES +2 TIES @ TOP	
CP6	1100x635 CONC. PIER +14-15M VERT +6-10M@300 C/C TIES +2 TIES @ TOP	
CP7	1480x635 CONC. PIER +16-20M VERT +7-10M@300 C/C TIES +2 TIES @ TOP	
CP8	1550x635 CONC. PIER +14-20M VERT +6-10M@300 C/C TIES +2 TIES @ TOP	

NOTE: TOP OF PIERS IS 250mm BELOW FLOOR SLAB U.N.O. ON PLAN AND/OR SECTIONS.
TOP OF PIERS SUPPORTING GLULAM COLUMN GC1 IS 300mm ABOVE FLOOR SLAB.

SPREAD FOOTING SCHEDULE		
MARK	SIZE	NOTES
F1	1500x1500x300 R/W 6-15Mx1350 LG B.E.W	PROVIDE DOWELS TO MATCH PIER ABOVE VERTICAL (SEE SECTIONS)
F2	1200x1200x300 R/W 5-15Mx1050 LG B.E.W	PROVIDE DOWELS TO MATCH PIER ABOVE VERTICAL (SEE SECTIONS)
F3	1350x1350x300 R/W 5-15Mx1200 LG B.E.W	PROVIDE DOWELS TO MATCH PIER ABOVE VERTICAL (SEE SECTIONS)
F4	1000x1000x300 R/W 4-15Mx850 LG B.E.W	PROVIDE DOWELS TO MATCH PIER ABOVE VERTICAL (SEE SECTIONS)
F5	750x750x300 R/W 3-15Mx600 LG B.E.W	PROVIDE DOWELS TO MATCH PIER ABOVE VERTICAL (SEE SECTIONS)
F6	1850x1500x300 R/W 7-15Mx1350 LG B.S.W 6-15Mx1700 LG B.L.W	PROVIDE DOWELS TO MATCH PIER ABOVE VERTICAL (SEE SECTIONS)
F7	1800x1800x300 R/W 7-15Mx1650 LG B.E.W	PROVIDE DOWELS TO MATCH PIER ABOVE VERTICAL (SEE SECTIONS)
F8	2400x1600x300 R/W 10-15Mx1450 LG B.S.W 6-15Mx2250 LG B.L.W	PROVIDE DOWELS TO MATCH PIER ABOVE VERTICAL (SEE SECTIONS)
F9	2000x1200x400 R/W 15M@250 T&B EW	PROVIDE DOWELS TO MATCH PIER ABOVE VERTICAL

(B.S.W - BOTTOM SHORT WAY; B.L.W - BOTTOM LONG WAY; B.E.W - BOTTOM EACH WAY)

STRIP FOOTING SCHEDULE		
MARK	SIZE	NOTES
SF1	550x300 3-15M CONT.	DOWELS TO MATCH FOUNDATION WALL ABOVE. (SEE SECTION)
SF2	400x200 2-15M CONT.	DOWELS TO MATCH FOUNDATION WALL ABOVE. (SEE SECTION)

FOUNDATION WALL SCHEDULE		
MARK	SIZE	NOTES
FW1	250 THK CONC WALL R/W 10M@400 c/c V. E.W. AND 10M@400 c/c H. E.W.	REFER TO FOUNDATION PLAN FOR LOCATION
FW2	200 THK CONC WALL R/W 2-15M T&B + 10M@400 c/c E.W. @ CENTRE	REFER TO FOUNDATION PLAN FOR LOCATION
FW3	350 THK CONC WALL R/W 10M@400 c/c V. E.W. AND 10M@400 c/c H. E.W.	REFER TO FOUNDATION PLAN FOR LOCATION

WALL AND DECK (FLOOR / ROOF) PANEL SCHEDULE			
MARK	SIZE (THICKNESS)	MATERIAL	NOTES
CLT-R1	175MM (5 PLY)	DOUGLAS FIR	
CLT-R2	105MM (3 PLY)	DOUGLAS FIR	
CLT-W1	175MM (5 PLY)	DOUGLAS FIR	PROVIDE CLT LINTELS ABOVE OPENINGS. TYP.

STEEL DECK SCHEDULE		
MARK	SIZE	NOTES
D1	38MM STEEL DECK - MIN. 22GAUGE (O.76MM)	MIN. 3 SPAN CONTINUOUS
D2	62MM CONC. R/W 152x152 MW18.7xMW18.7 WWF + 38MM STEEL DECK - MIN. 22GAUGE (O.76MM COMPOSITE DECK)	MIN. 3 SPAN CONTINUOUS
D3	CONTINUOUS WELDED STEEL BAR GRATING (SERRATED SURFACE) TYPE 30-102 COVER W/ MIN. BEARING BAR SIZE 38mm DPx4.8mm THK. AS MANUFACTURED BY BORDEN GRATINGS OR APPROVED EQUAL	MIN. 3 SPAN CONTINUOUS

WOOD BEAM SCHEDULE				
MARK	SIZE (THICKNESS)	MATERIAL	GRADE	FACTORED SHEAR (kN)
B1	315x1520	DOUGLAS FIR	20f-E	520
B2	315x1444	DOUGLAS FIR	20f-E	420
B3	265x418	DOUGLAS FIR	20f-E	150
B4	265x494	DOUGLAS FIR	20f-E	185
B5	265x570	DOUGLAS FIR	20f-E	230
B6	315x608	DOUGLAS FIR	20f-E	260
B7	130x304	DOUGLAS FIR	20f-E	30
B8	2-45x184 LVL 2.0E			
B9	3-45x184 LVL 2.0E			

GLULAM WOOD COLUMN SCHEDULE					
MARK	SIZE (WxD)	MATERIAL	GRADE	NOTES	FACTORED LOAD (kN)
GC1	315x836	DOUGLAS FIR	20f-EX	PIER DIMENSIONS TO MATCH COLUMN SIZE	Pf = 650
GC2	265x266	DOUGLAS FIR	16c-E		Pf (max) = 400

WIND GIRT SCHEDULE		
MARK	SIZE	NOTES
G1	HSS 203x203x8.0	CONNECT TO COLUMN AT EACH END

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5. ISSUED FOR TENDER	AUG 18, 22



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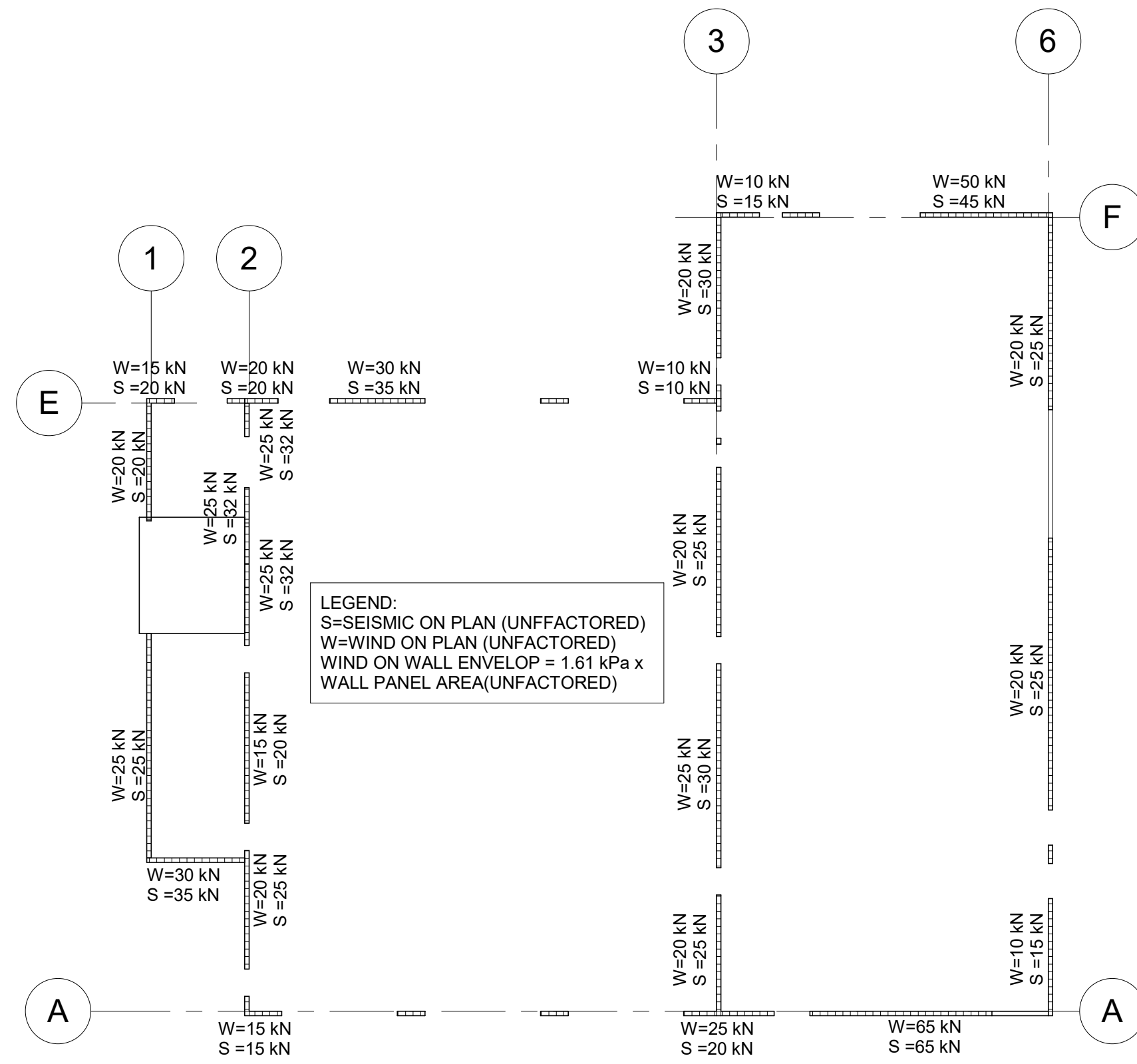
Contract Documentation

PROJECT No. 2153
START DATE Issue Date

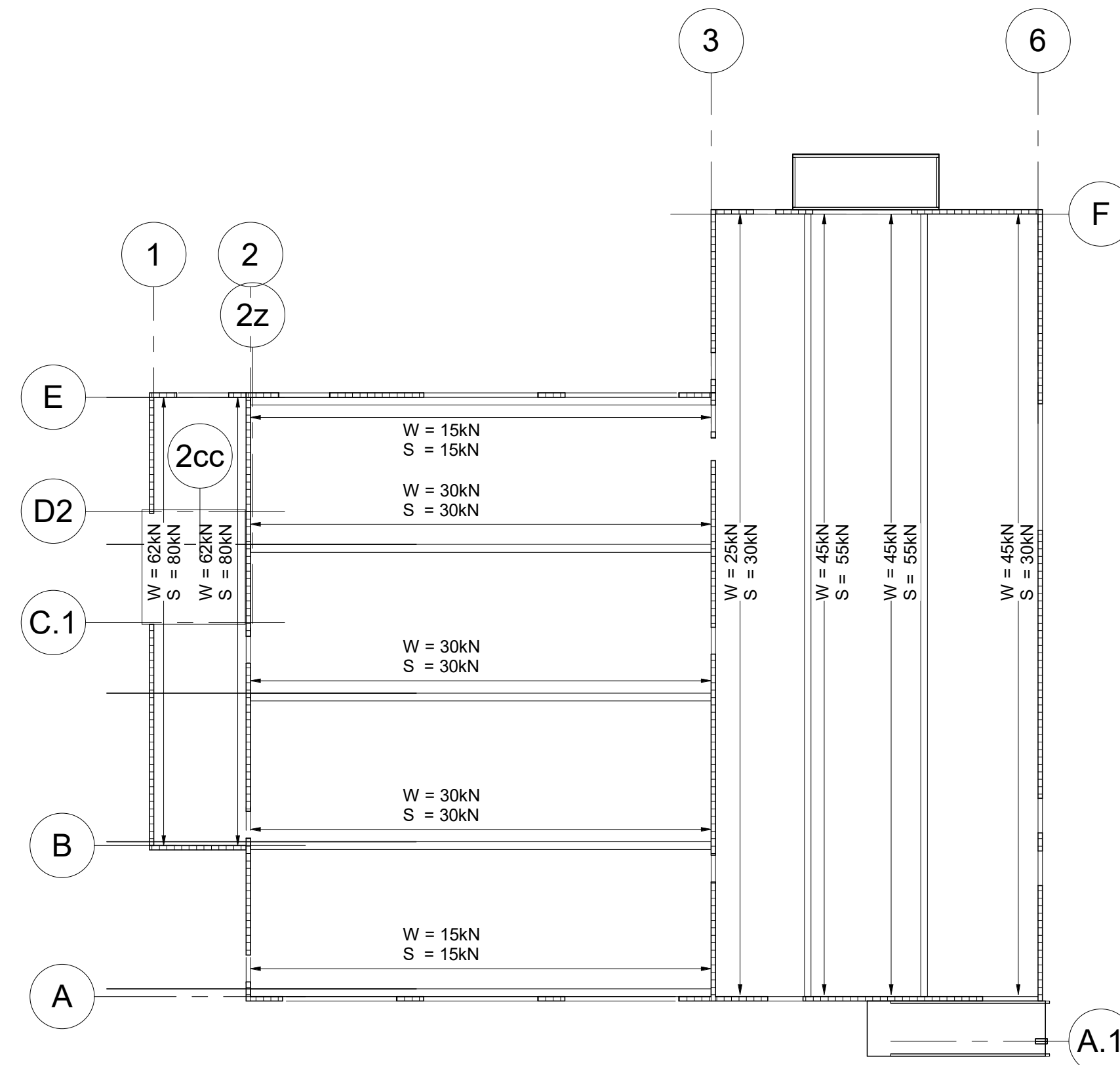
CITY OF PETERBOROUGH FIRE STATION NO.2

100 Marina Boulevard
Peterborough, Ontario

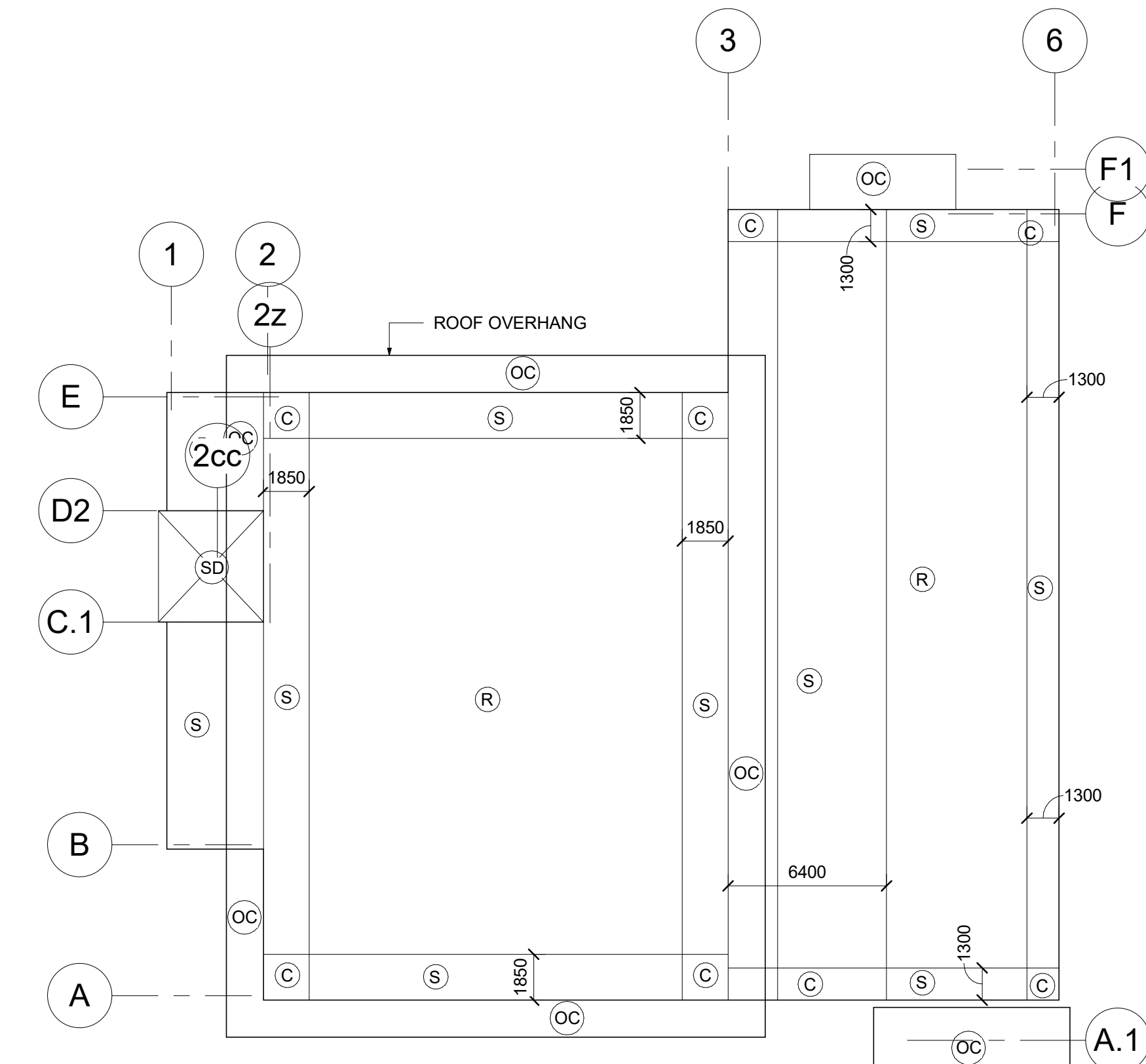
SCHEDULES



1 CLT SHEAR WALL LOADING PLAN
S202 1 : 200



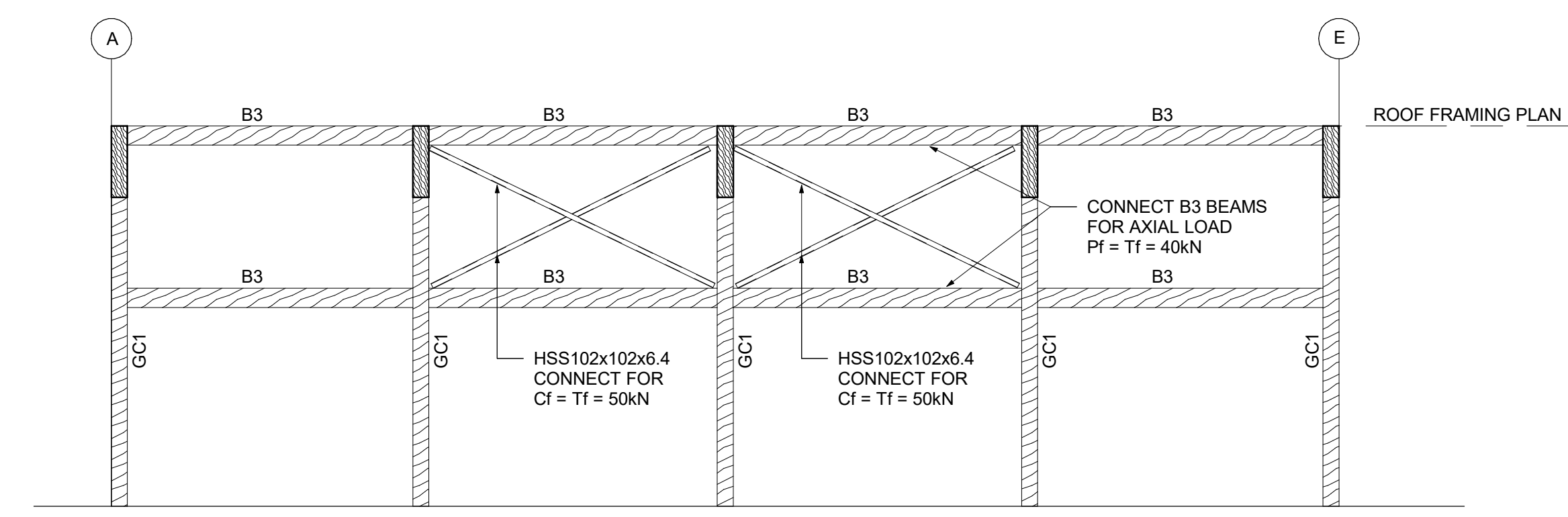
3 ROOF DIAPHRAGM LOADING PLAN
S202 1 : 200



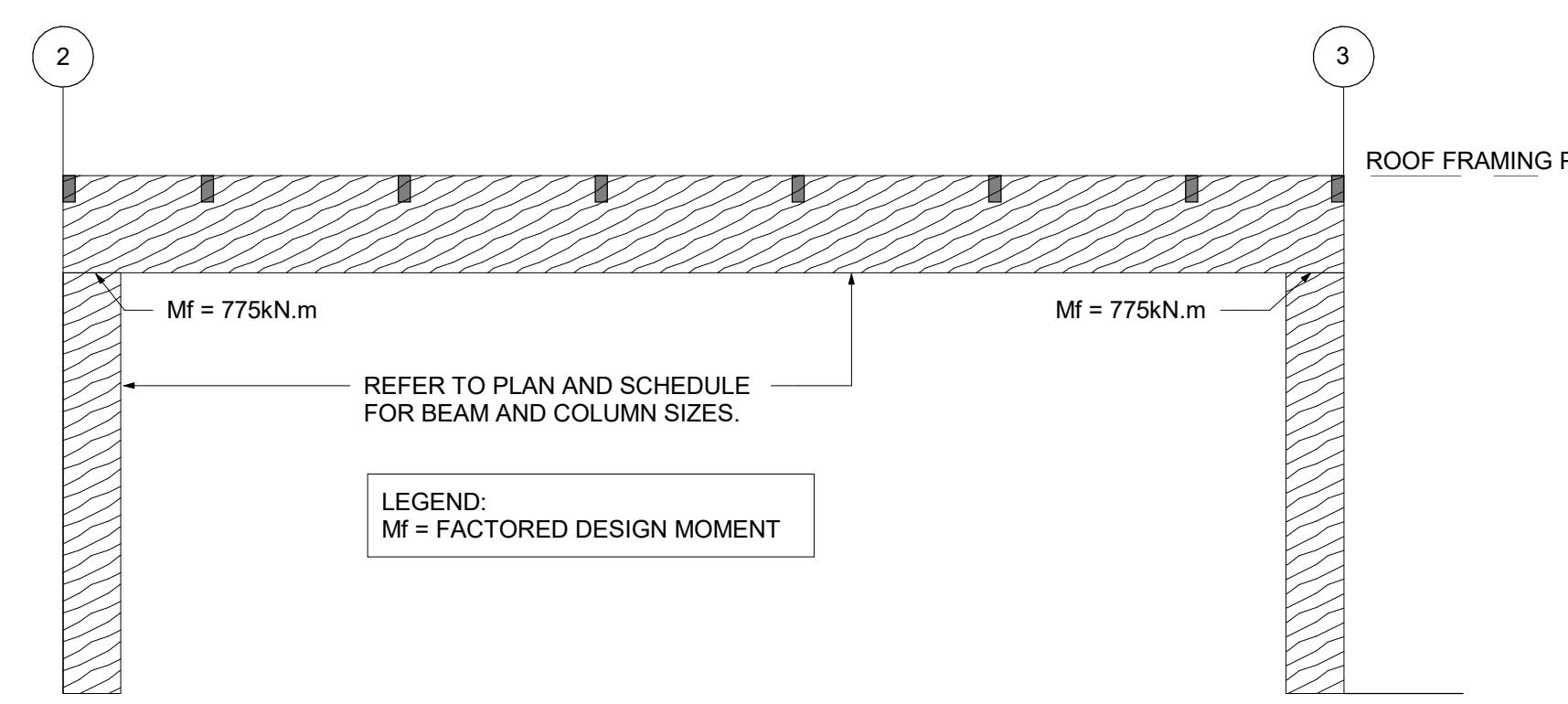
NOTE:
LOADS NOTED ARE WIND UPLIFT VALUES AND ARE NOT FACTORED.

FOR CALCULATION OF NET UPLIFT ROOF,
1. FOR CLT, DEAD LOAD = 0.6 kPa
R = 1.34 kPa
S = 1.69 kPa
C = 2.30 kPa
OC = 1.7 kPa
2. FOR STEEL DECK, DEAD LOAD = 0.72 kPa
SD = 1.5 kPa

2 GROSS WIND UPLIFT DIAGRAM
S202 1 : 200



4 BRACED FRAME ON GRID 3 (RF2)
S202 1 : 100



5 TYPICAL MOMENT FRAME ELEVATION (RF1)
S202 1 : 100

2	ISSUED FOR COORDINATION	FEB 16, 22
3	ISSUED FOR PERMIT REVIEW	FEB 25, 22
4	ISSUED FOR BUILDING PERMIT	MAR 21, 22
5	ISSUED FOR TENDER	AUG 18, 22



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Contract Documentation

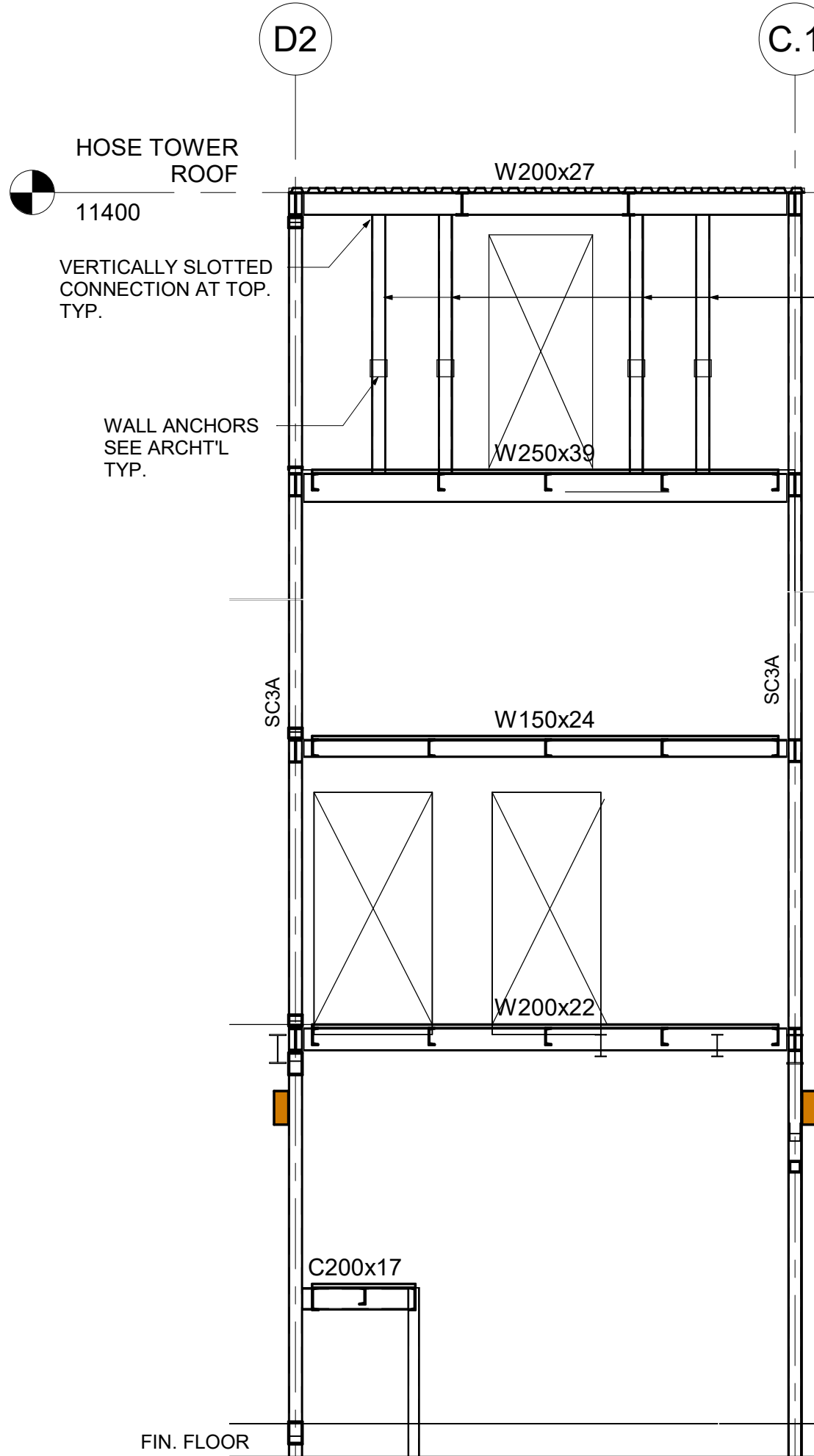
PROJECT No. 2153
START DATE Issue Date

**CITY OF
PETERBOROUGH**
FIRE STATION NO.2

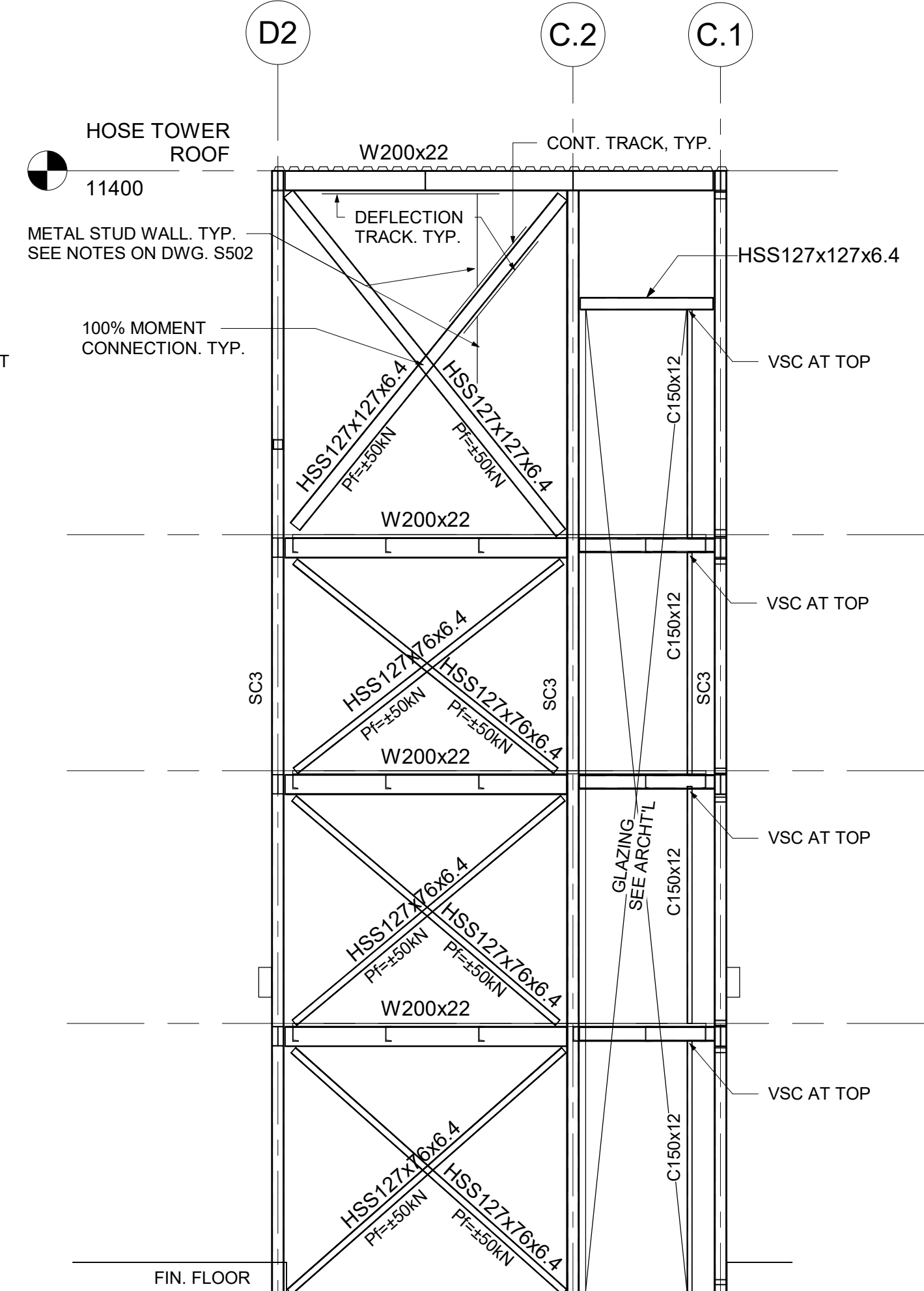
100 Marina Boulevard
Peterborough, Ontario
LOADING DIAGRAMS

ISSUE / REVISIONS

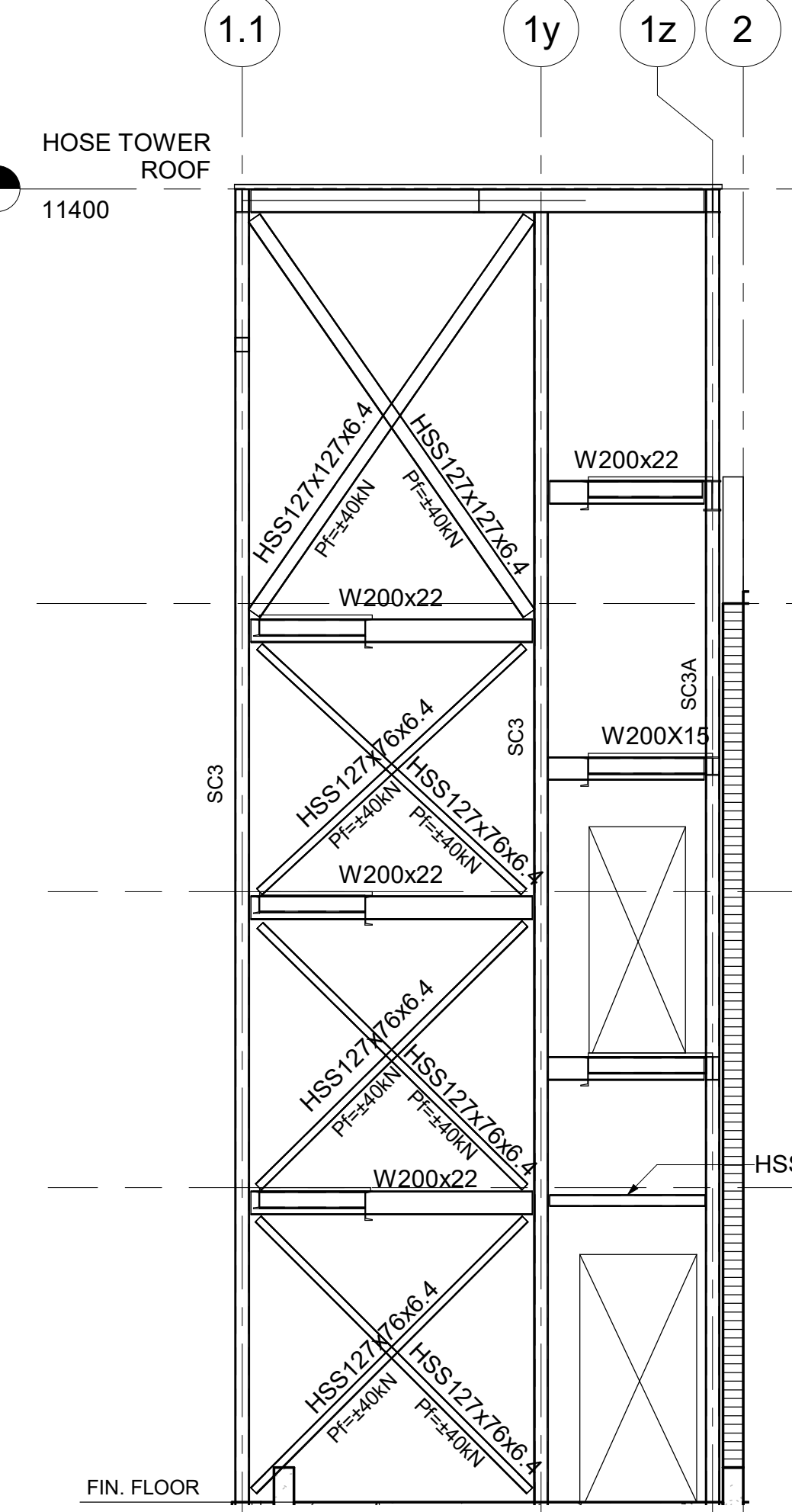
2	ISSUED FOR COORDINATION	FEB 16, 22
3	ISSUED FOR PERMIT REVIEW	FEB 25, 22
4	ISSUED FOR BUILDING PERMIT	MAR 21, 22
5	ISSUED FOR TENDER	AUG 18, 22



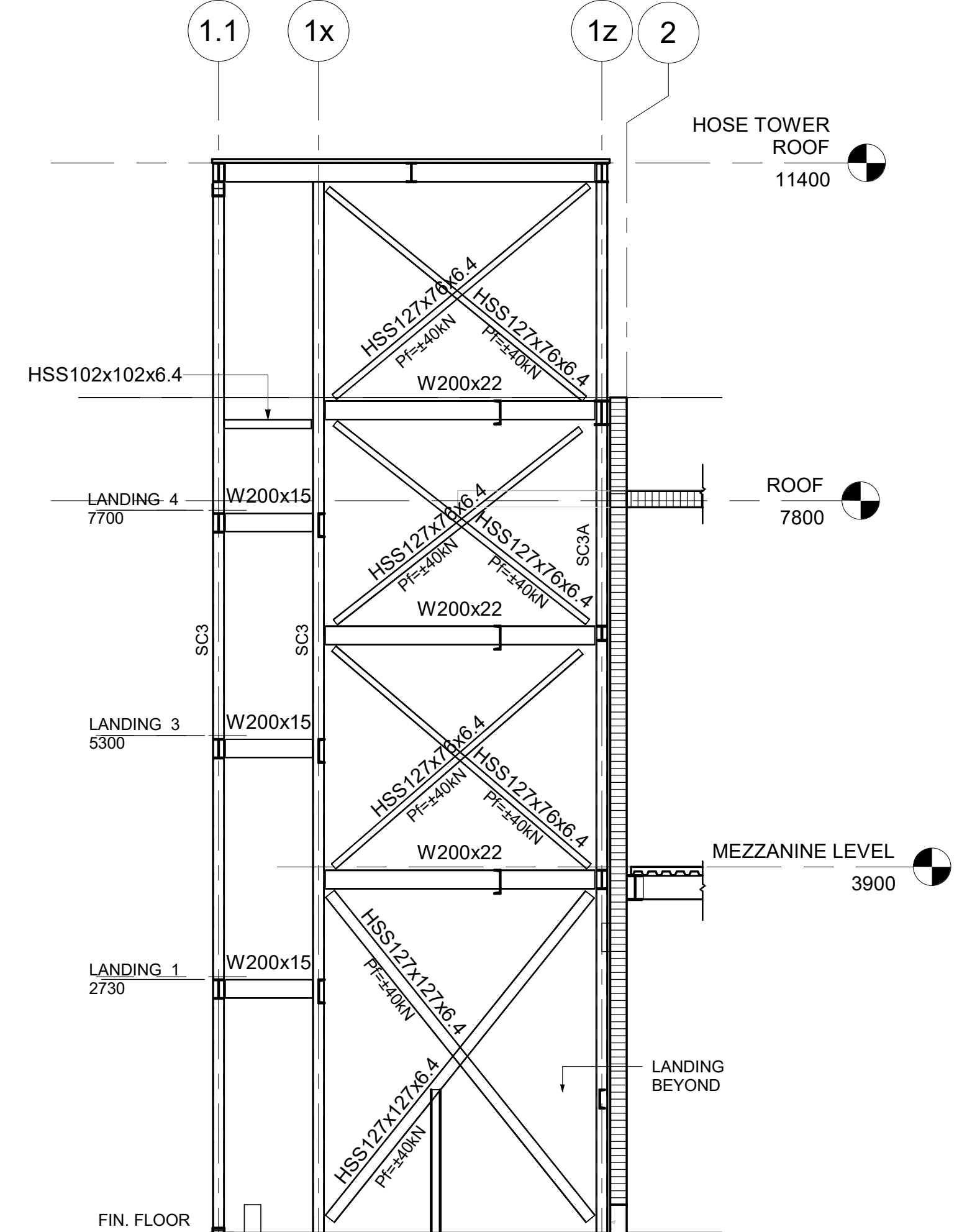
1 ELEVATION (GRID LINE 1z)
S301 1 : 50



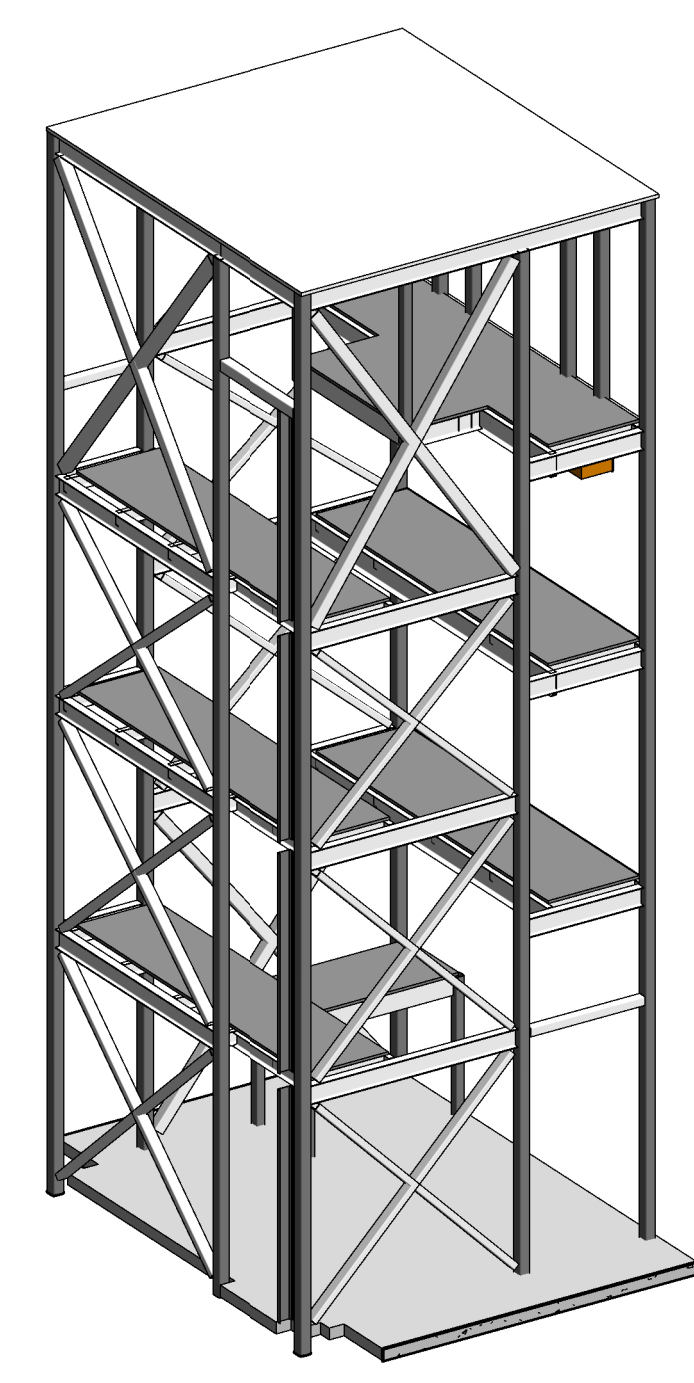
2 ELEVATION (GRID LINE 1.1)
S301 1 : 50



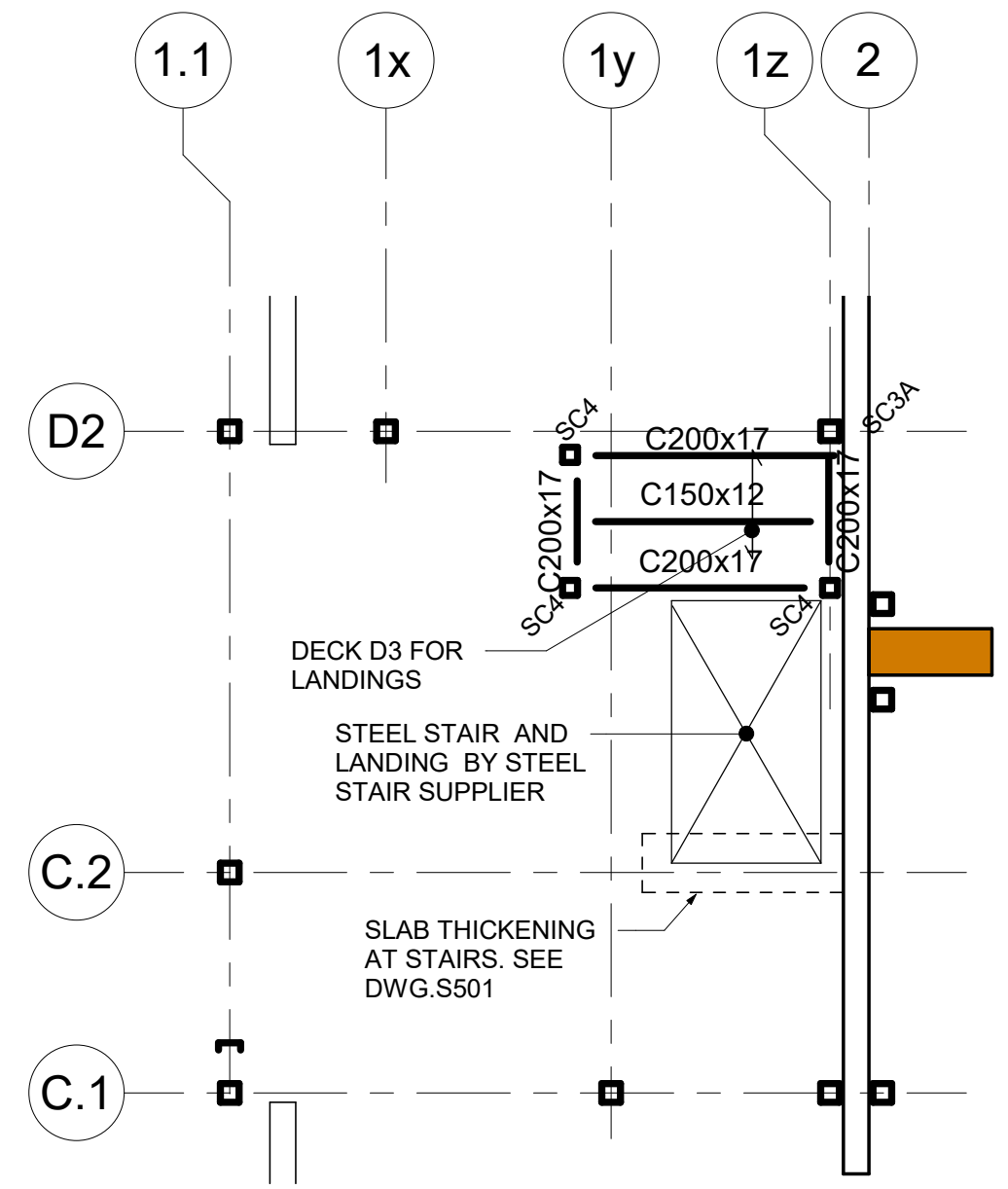
3 ELEVATION (GRID LINE C.1)
S301 1 : 50



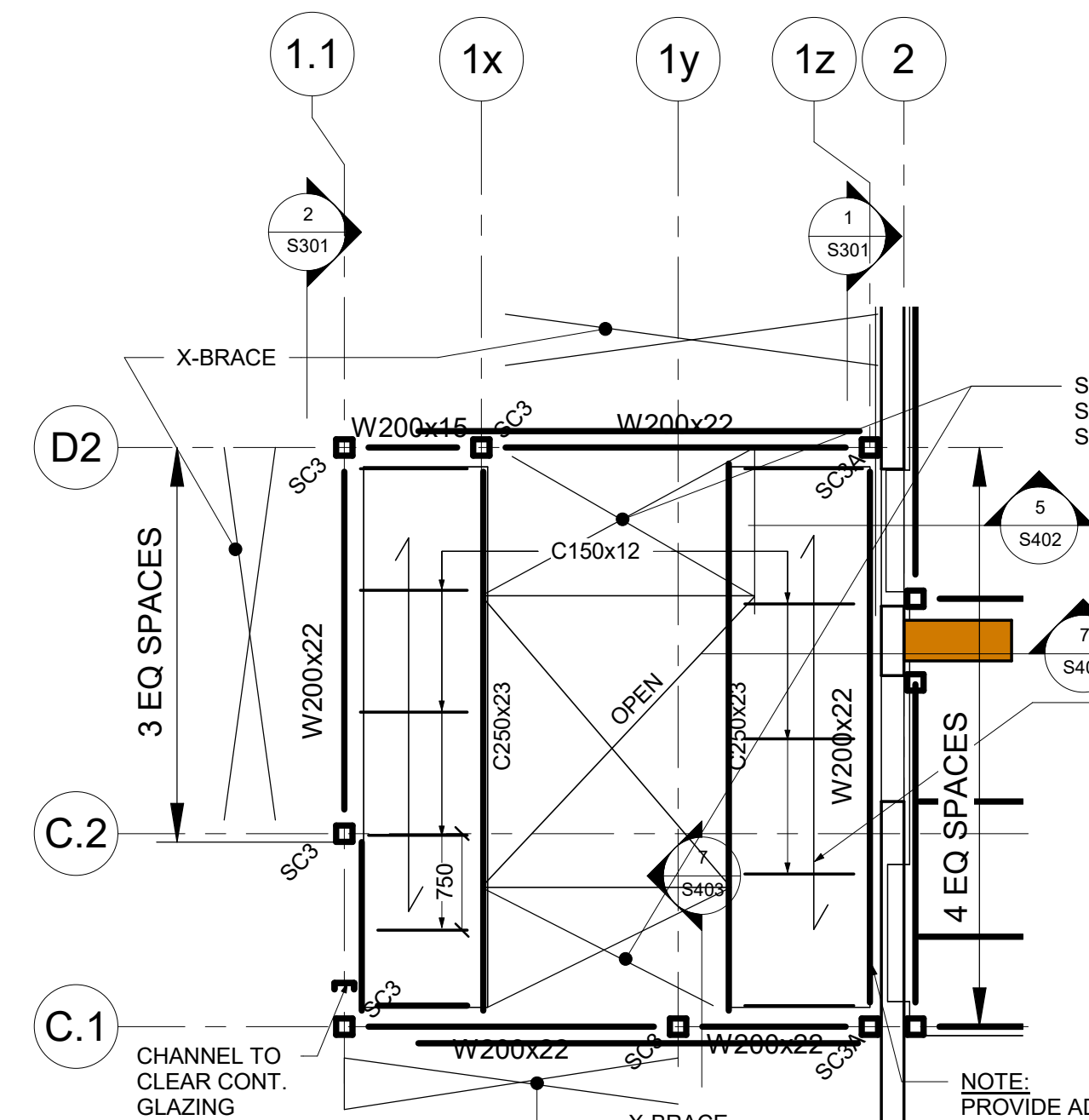
4 ELEVATION (GRID LINE D.2)
S301 1 : 50



5 TOWER VIEW
S301



6 BOTTOM MID LANDING FRAMING PLAN
S301 1 : 50

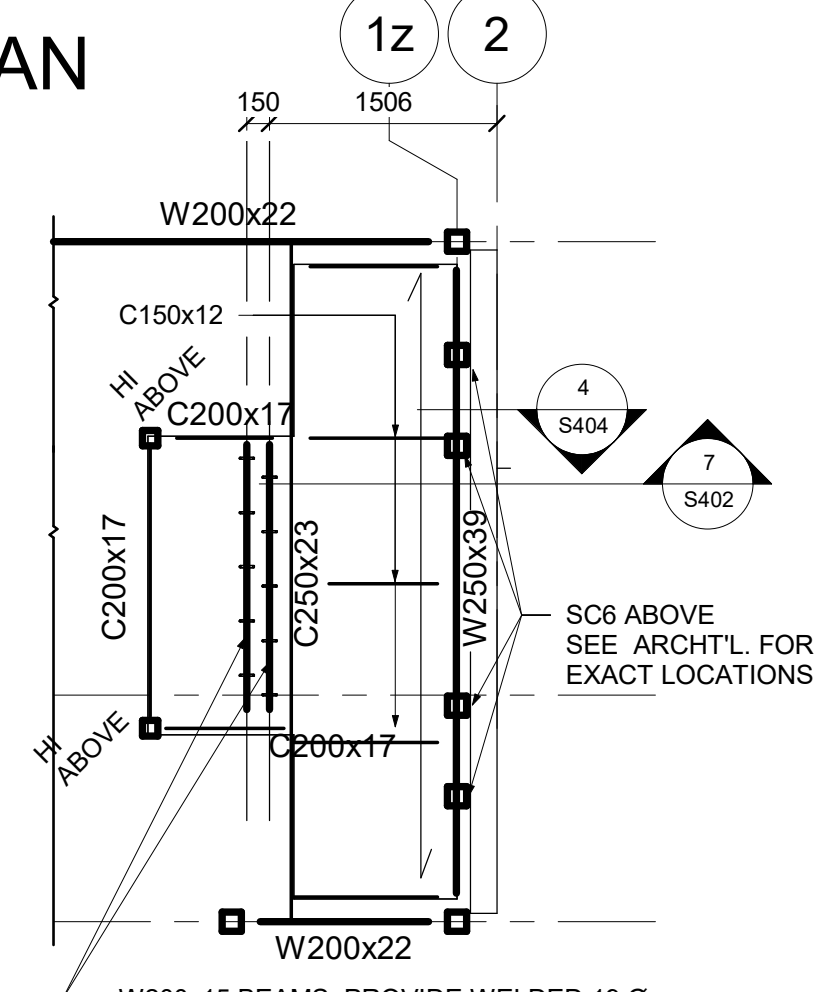


7 TYP. HOSE TOWER LANDING FRAMING PLAN
S301 1 : 50

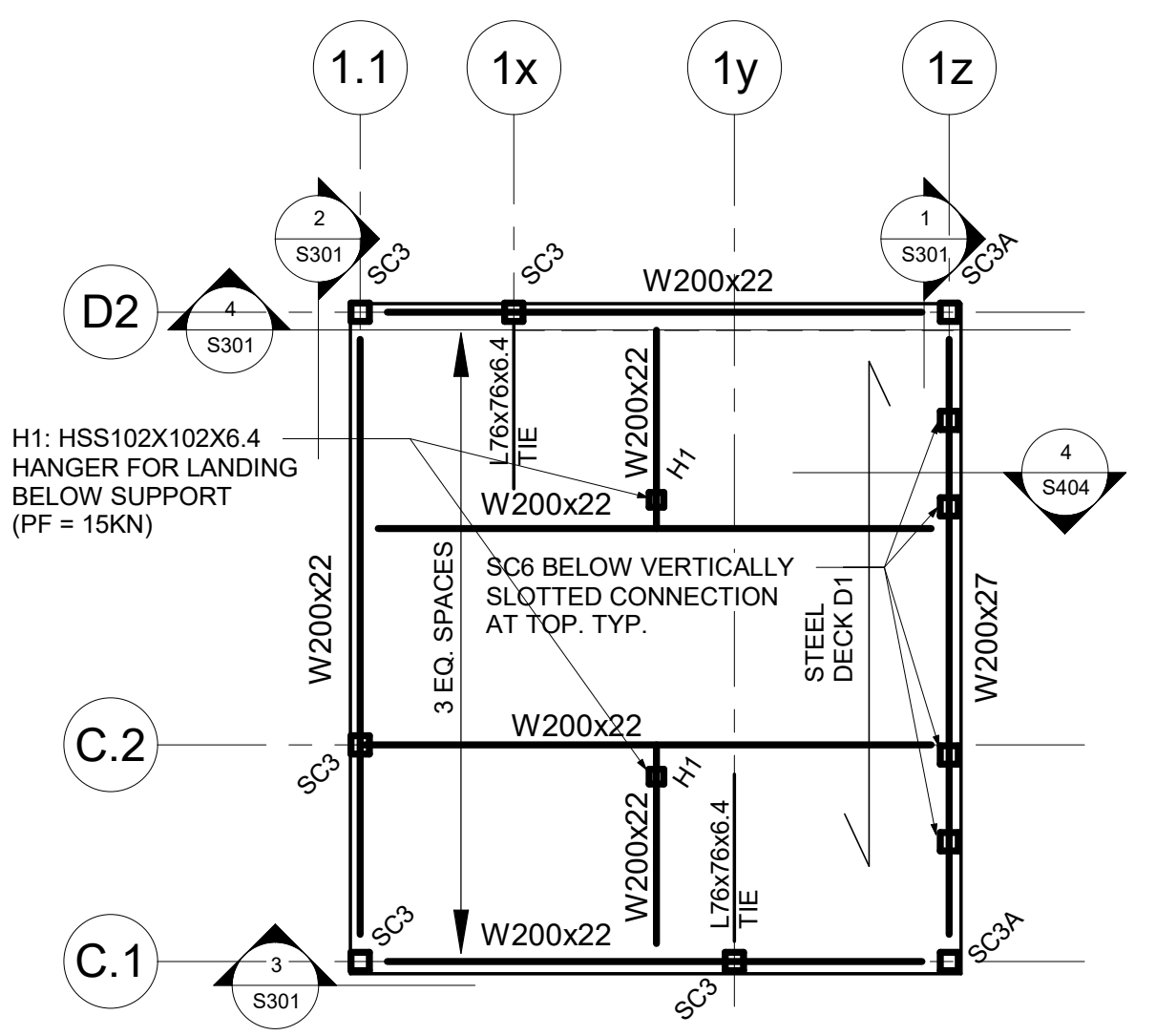
DESIGN LOADS FOR HOSE TOWER STAIRS & LANDINGS:

DEAD LOAD	= 1.00kPa
LIVE LOAD	= 4.80kPa
TOTAL LOAD	= 5.80kPa

NEW PLAN



9 TOP LANDING FRAMING PLAN
S301 1 : 50



8 HOSE TOWER ROOF FRAMING PLAN
S301 1 : 50

- DESIGN LOADS FOR HOSE TOWER ROOF
- | | |
|------------|------------|
| DEAD LOAD | = 1.00 KPa |
| LIVE LOAD | = 2.50 KPa |
| TOTAL LOAD | = 3.50 KPa |
- TOP OF STEEL DECK IS AT ELEVATION +11400 ABOVE GROUND FLOOR UNLESS NOTED OTHERWISE ON PLAN AND/OR SECTIONS.
 - TOP OF STEEL BEAM 38 BELOW TOP OF STEEL DECK UNLESS NOTED OTHERWISE ON PLAN /OR SECTIONS.
 - SEE ARCH. DRAWINGS FOR DIMENSIONS, ELEVATIONS AND ROOF SLOPES.
 - SEE ALSO SCHEDULES, GENERAL NOTES AND TYPICAL DETAILS ON DRAWINGS S201, S501, S502 AND S503



All dimensions to be checked and verified on site. Do not scale drawings. Any discrepancies are to be reported to the Consultant. All drawings remain the property of the Consultant. Only latest approved drawings to be used for construction.

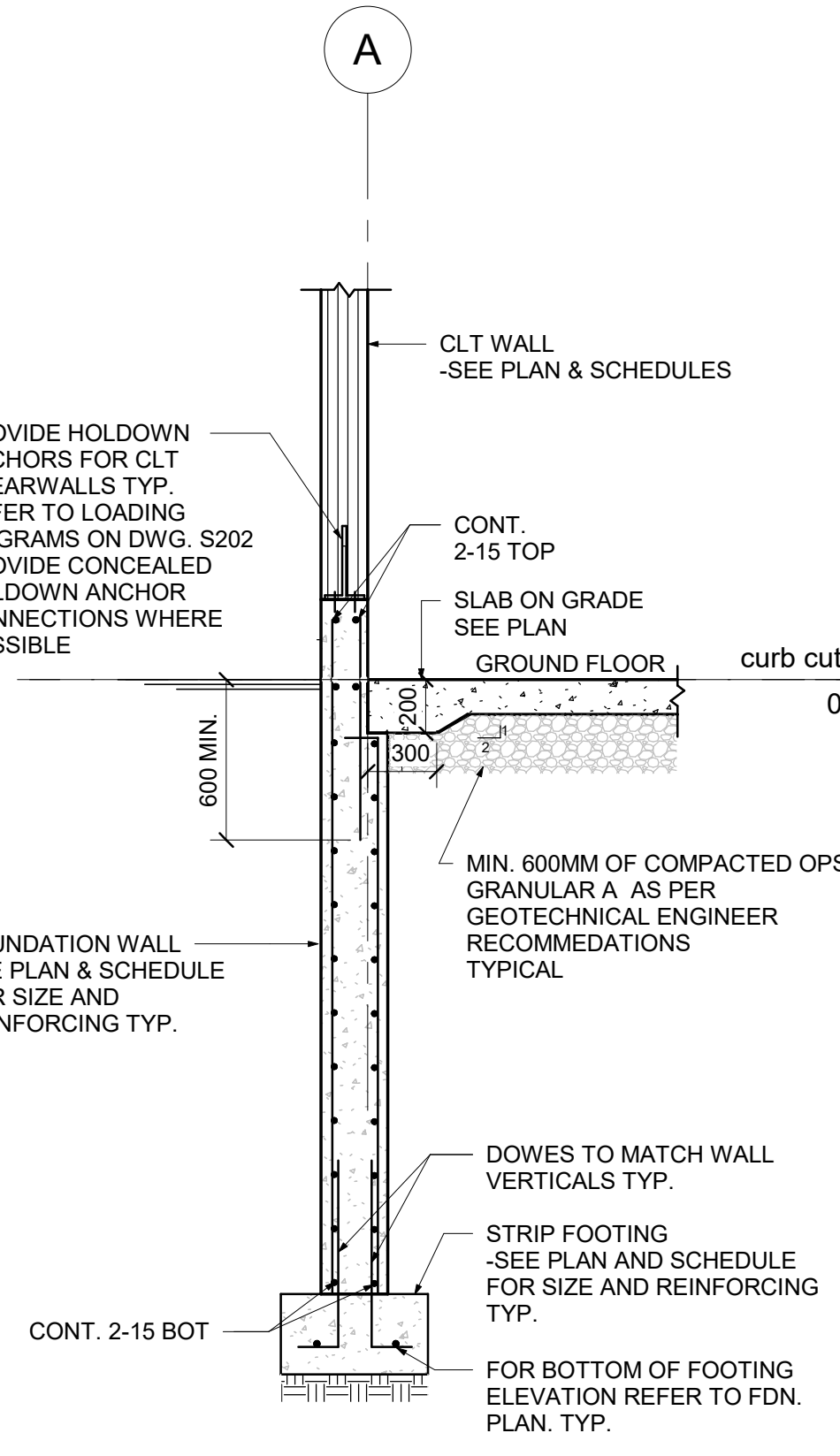
Contract Documentation

PROJECT No. 2153
START DATE Issue Date

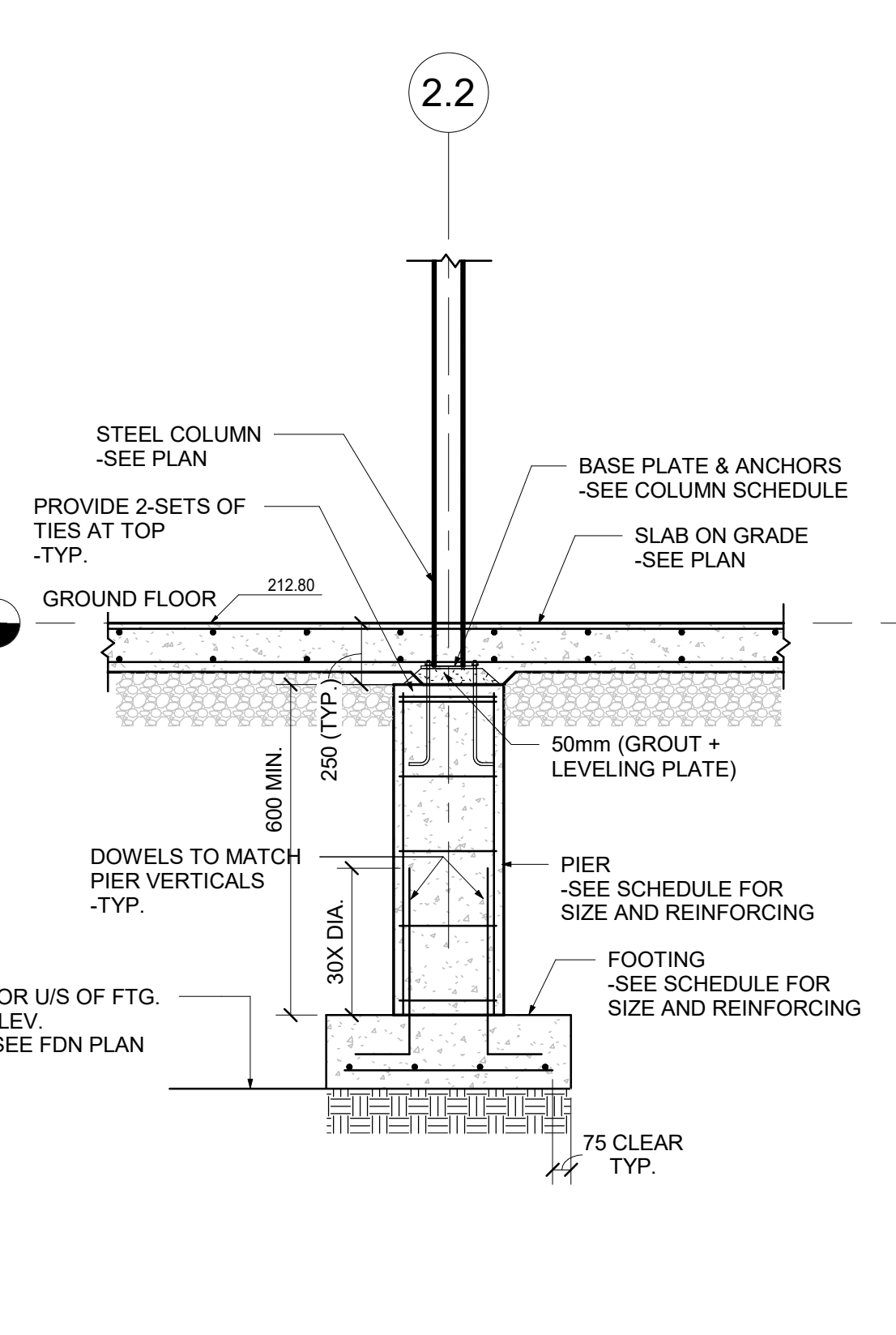
CITY OF
PETERBOROUGH
FIRE STATION NO.2

100 Marina Boulevard
Peterborough, Ontario
**HOSE TOWER
FRAMING PLANS AND
ELEVATIONS**

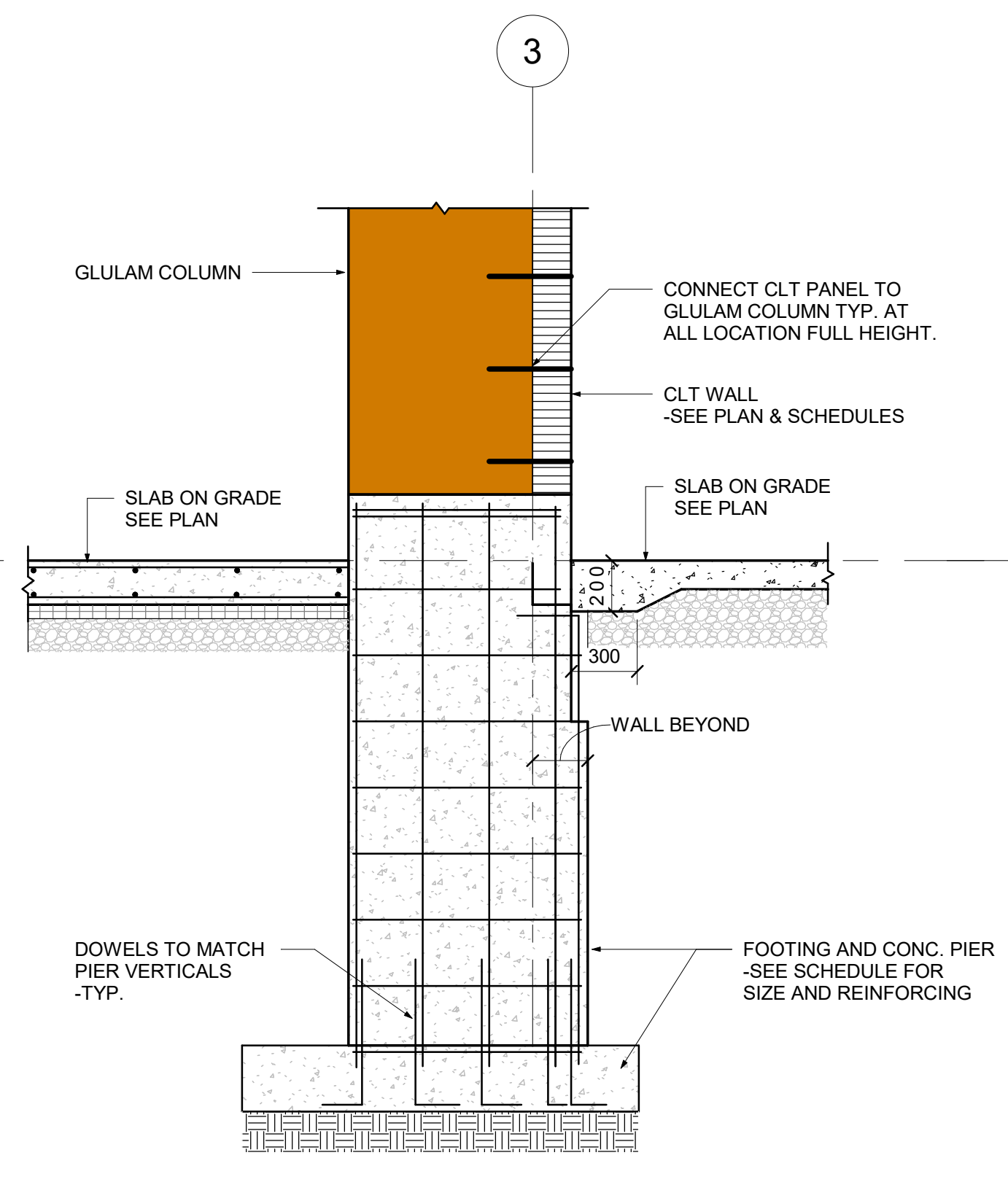
NOTE:
1. FOR TOP OF STEEL ELEVATIONS REFER TO SECTIONS AND ARCHIT'L DRAWINGS.



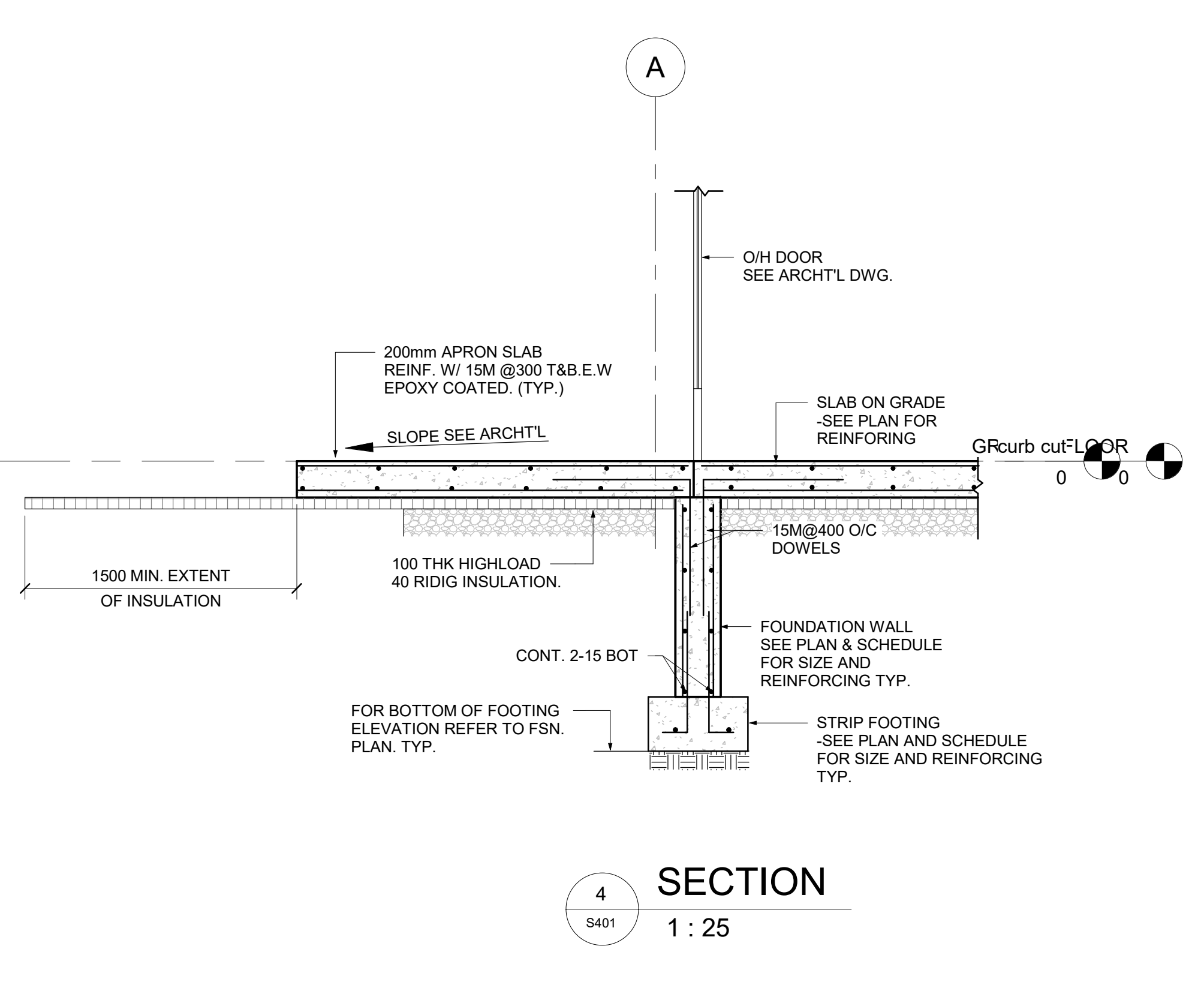
1 SECTION
S401 1 : 25



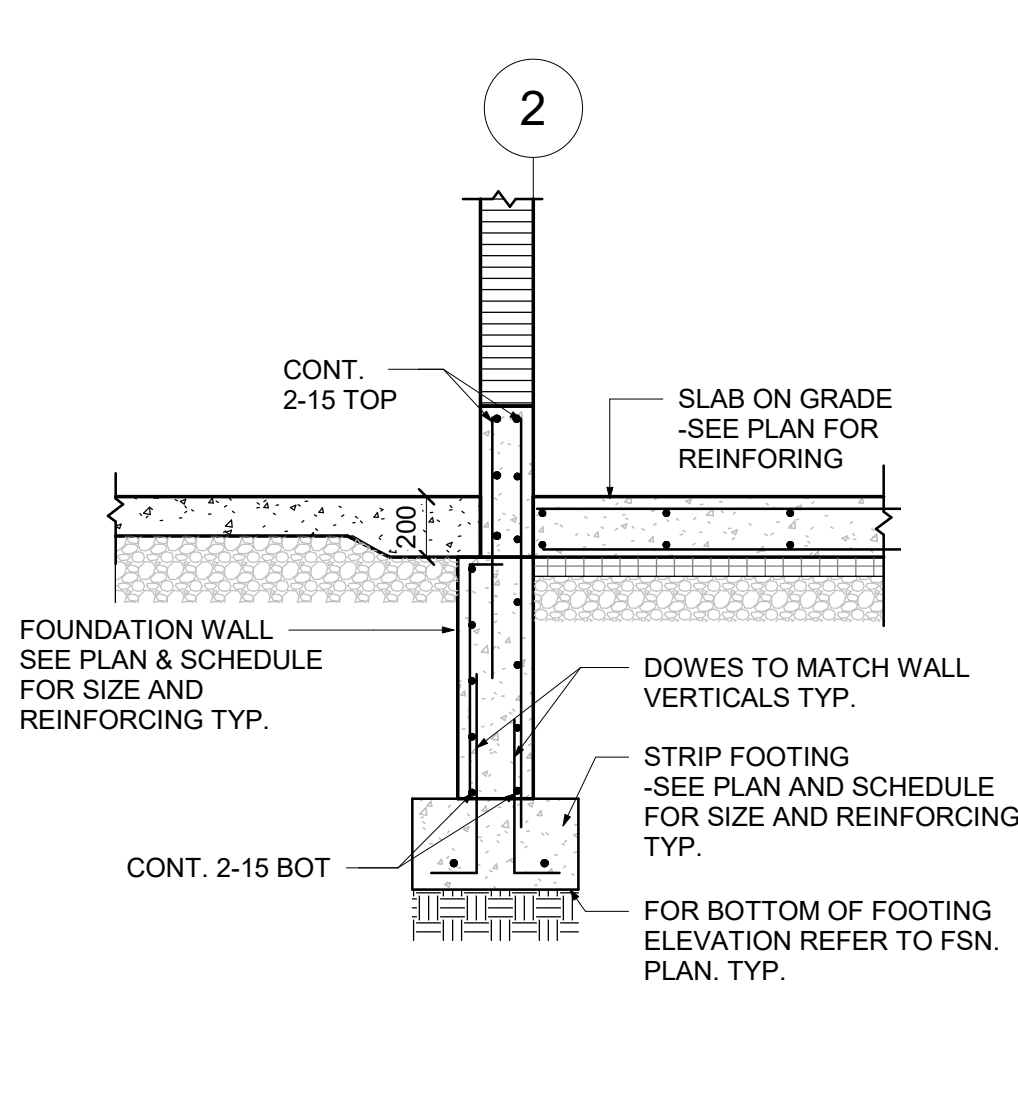
2 TYP. INTERIOR STEEL COLUMN FOOTING
S401 1 : 25



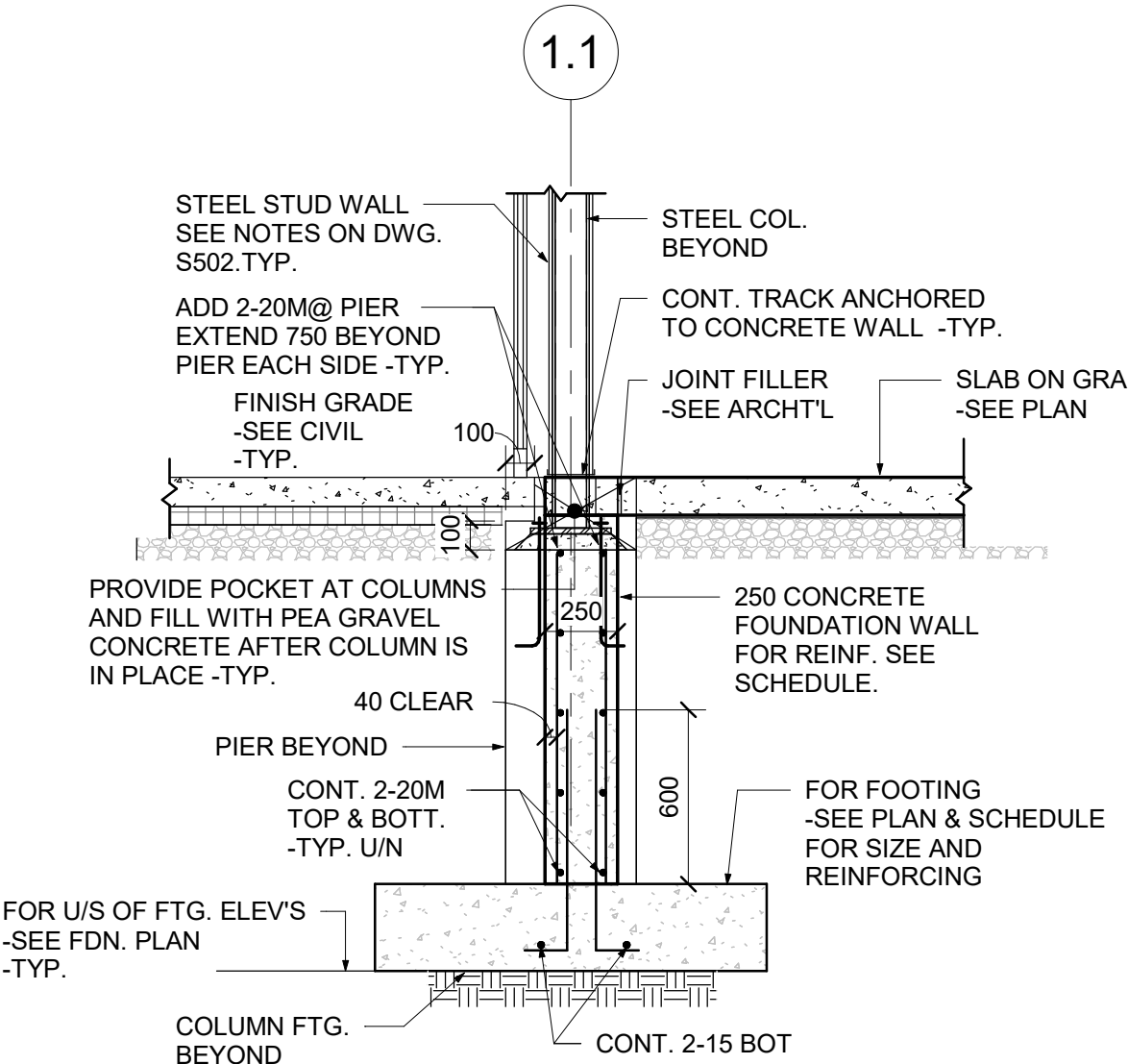
3 SECTION
S401 1 : 25



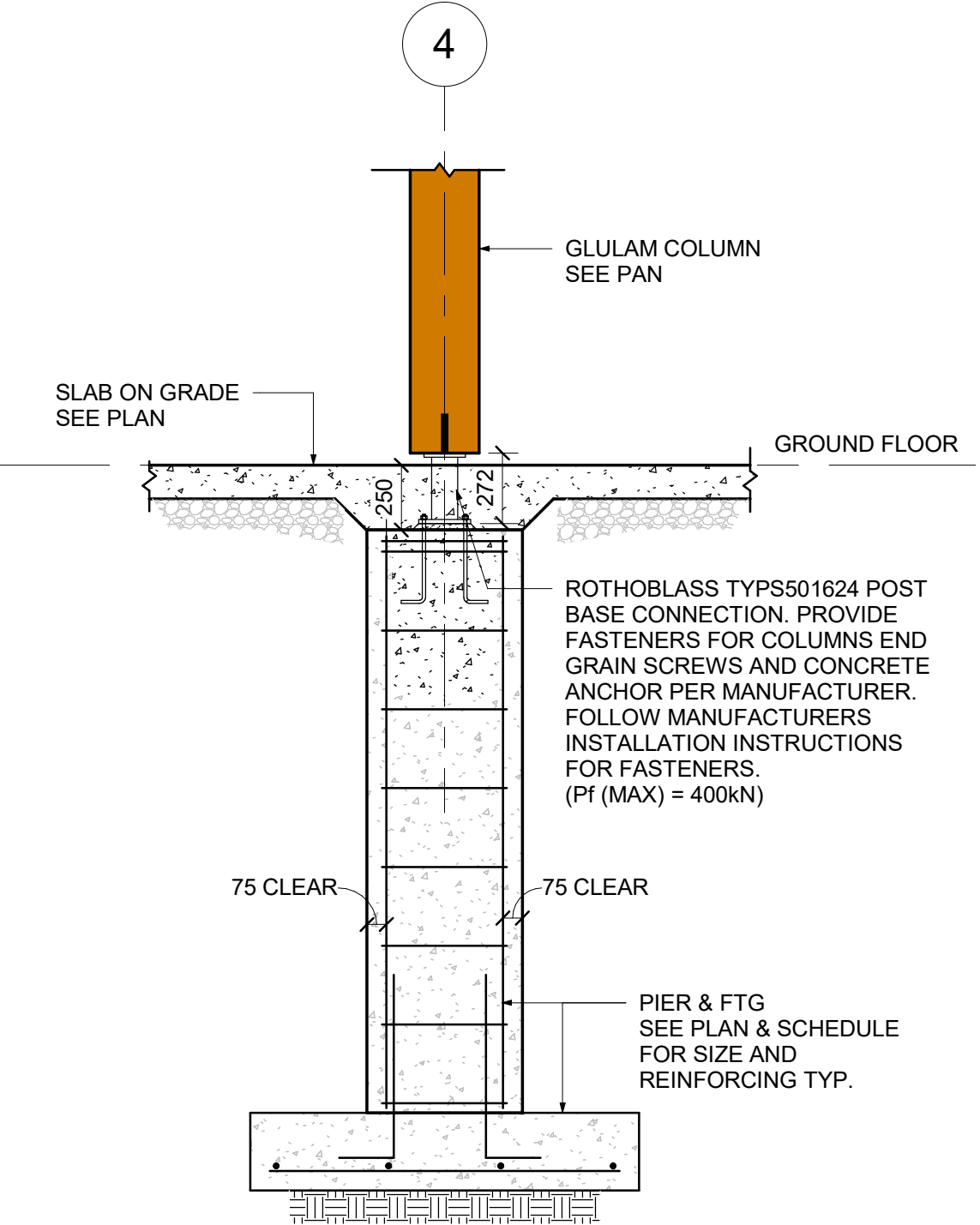
4 SECTION
S401 1 : 25



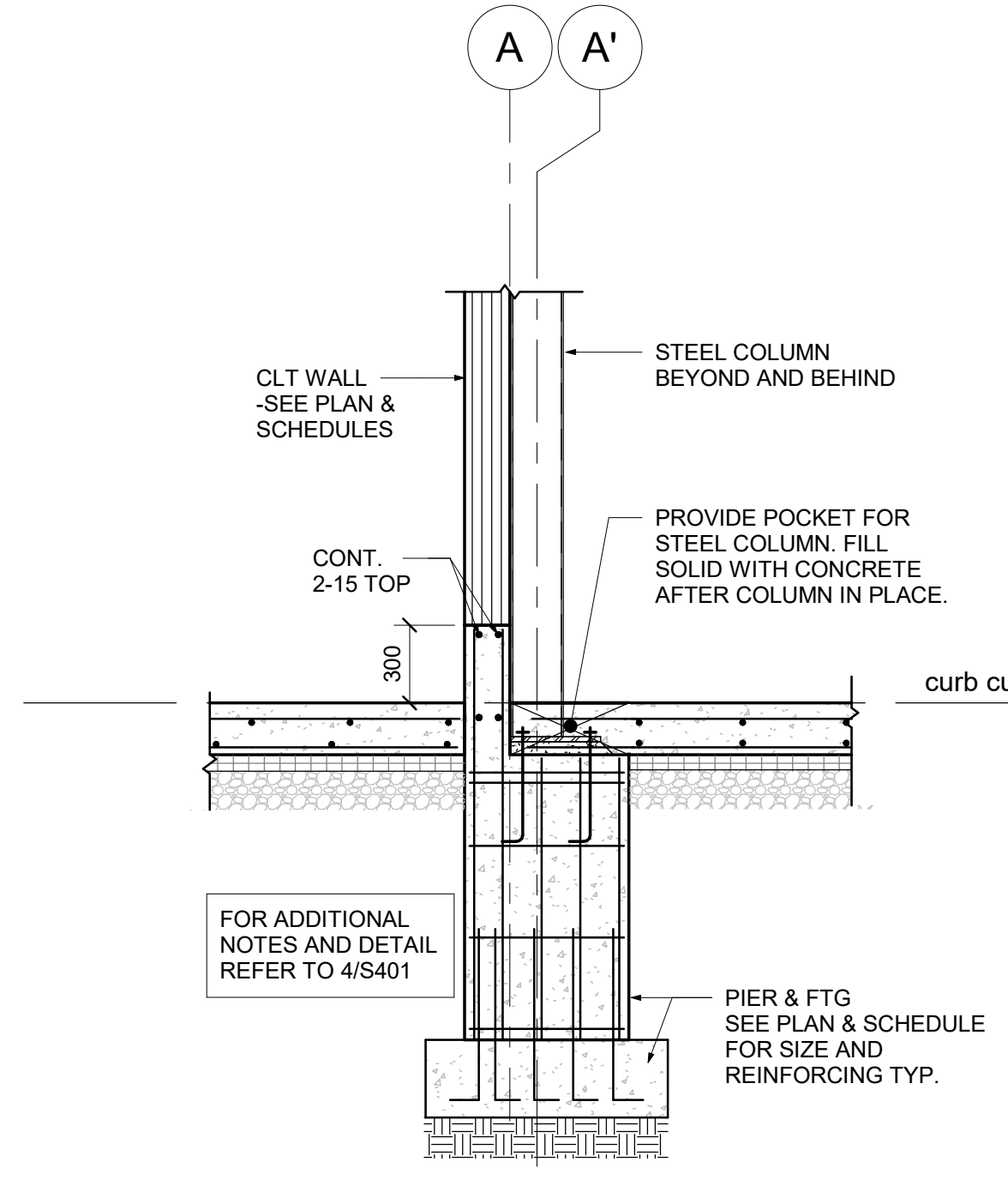
5 SECTION
S401 1 : 25



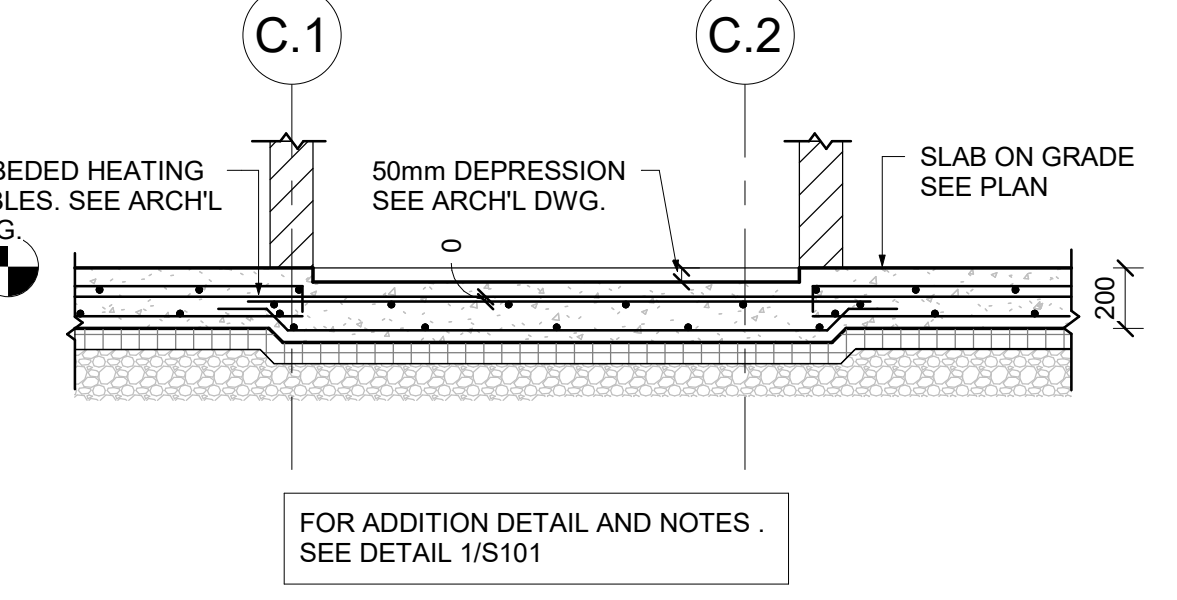
6 SECTION
S401 1 : 25



7 TYP. INTERIOR GLULAM COL DETAIL
S401 1 : 25



8 SECTION
S401 1 : 25



9 SECTION
S401 1 : 25

ISSUE / REVISIONS	
1	ISSUED FOR DESIGN SIGN-OFF OCT 27, 21
2	ISSUED FOR COORDINATION FEB 16, 22
3	ISSUED FOR PERMIT REVIEW FEB 25, 22
4	ISSUED FOR BUILDING PERMIT MAR 21, 22
5	ISSUED FOR TENDER AUG 18, 22

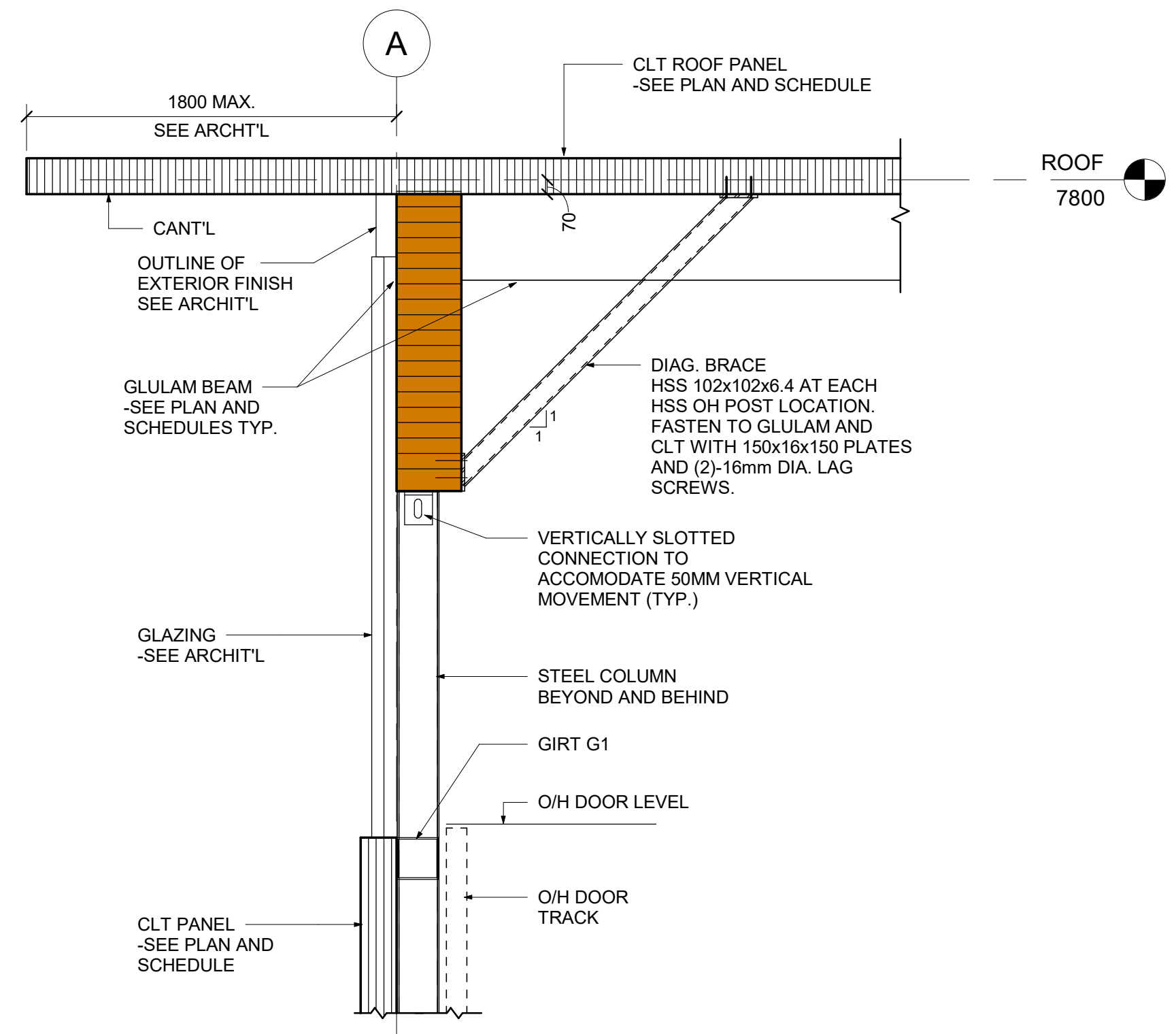


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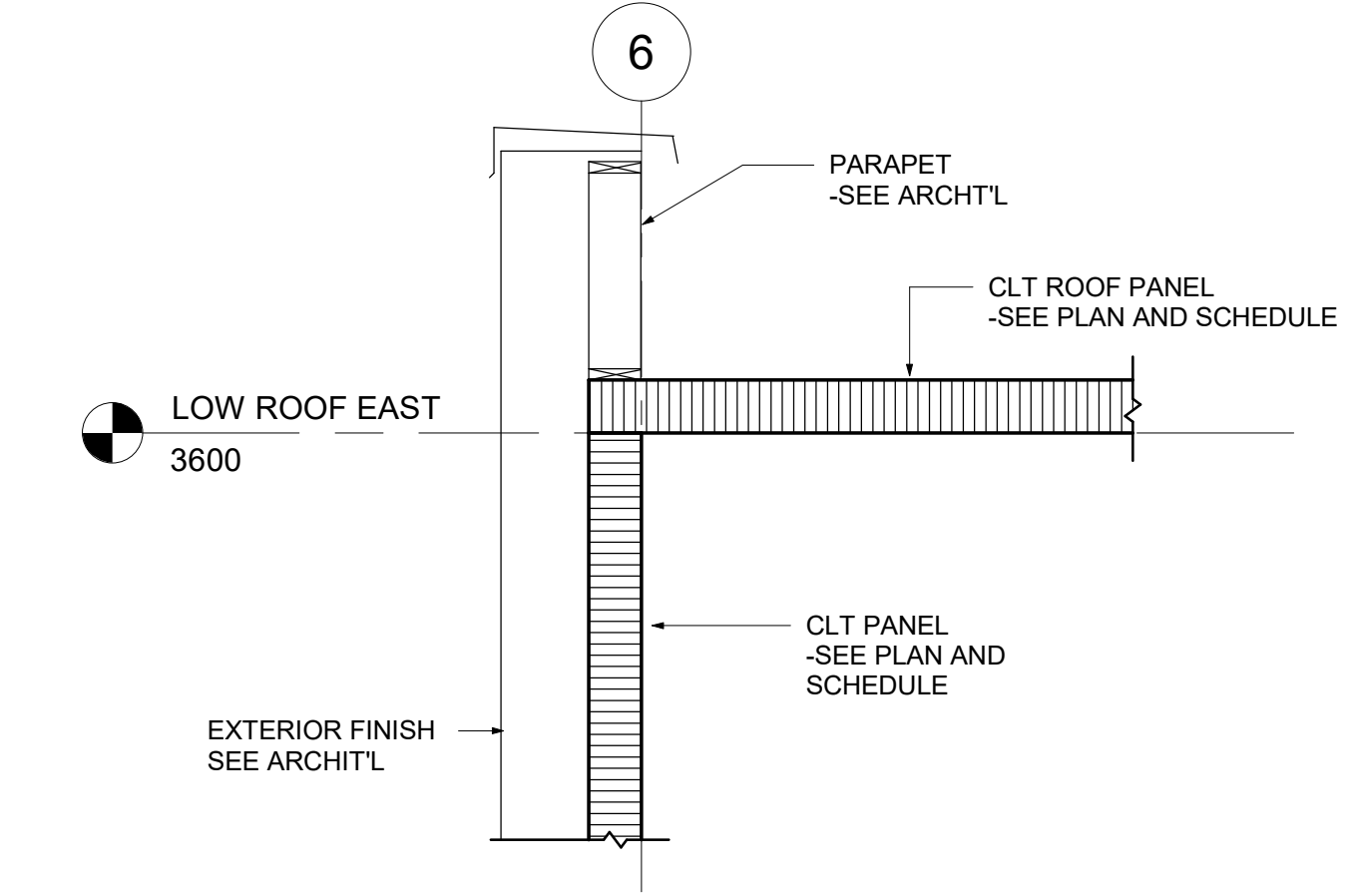
Contract Documentation
PROJECT No. 2153
START DATE Issue Date

CITY OF
PETERBOROUGH
FIRE STATION NO.2

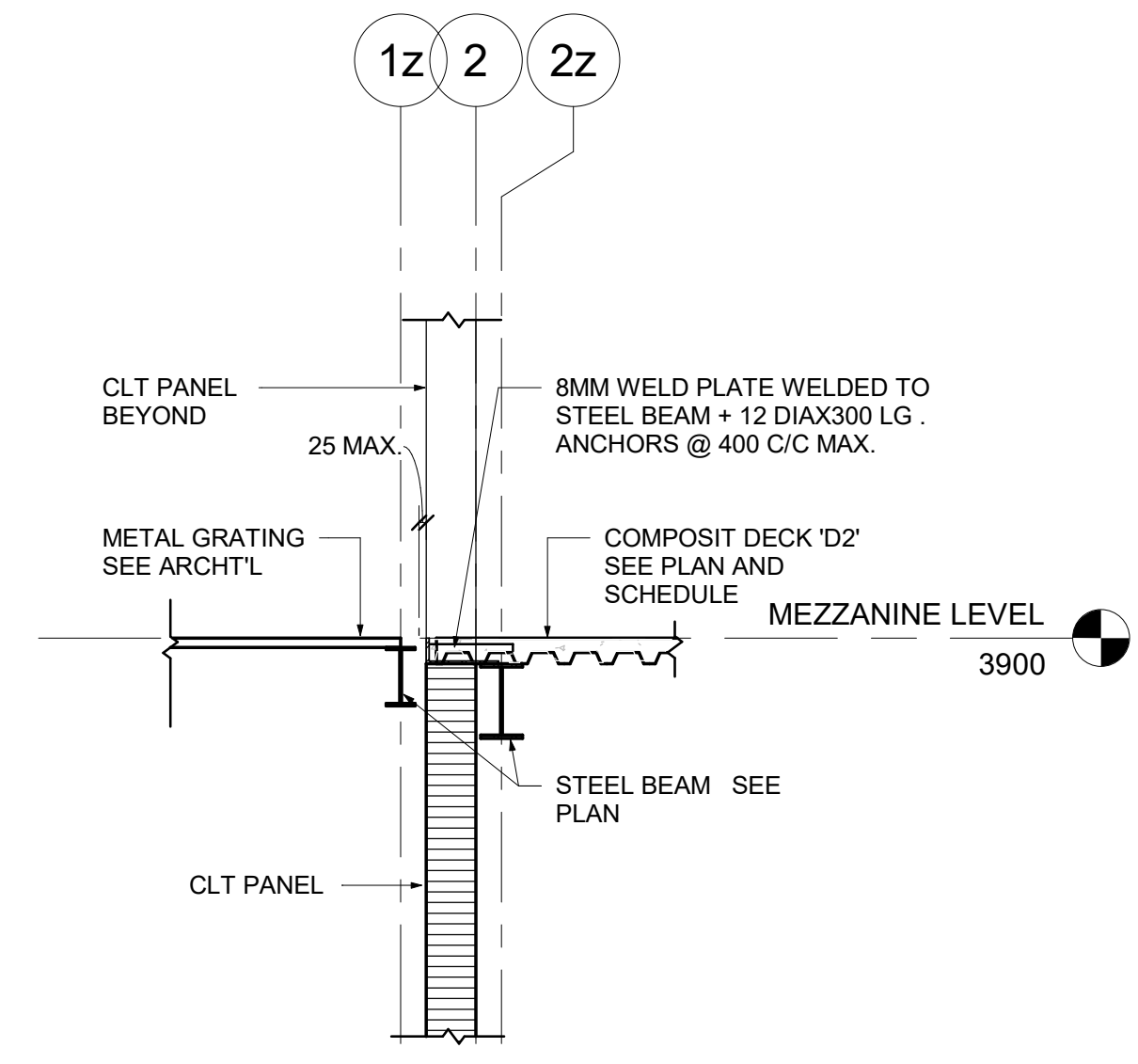
100 Marina Boulevard
Peterborough, Ontario
SECTIONS



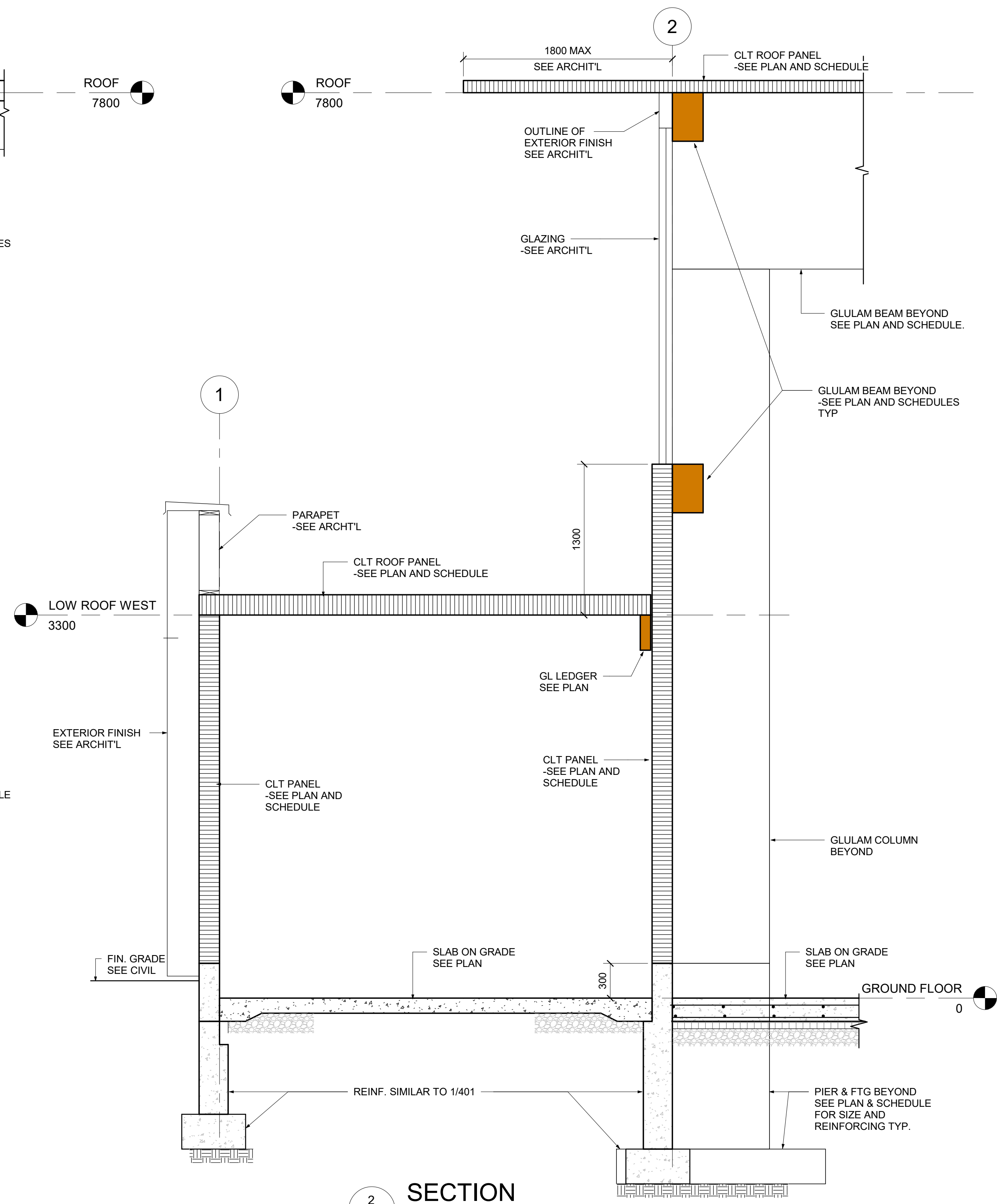
1 SECTION
S402 1:25



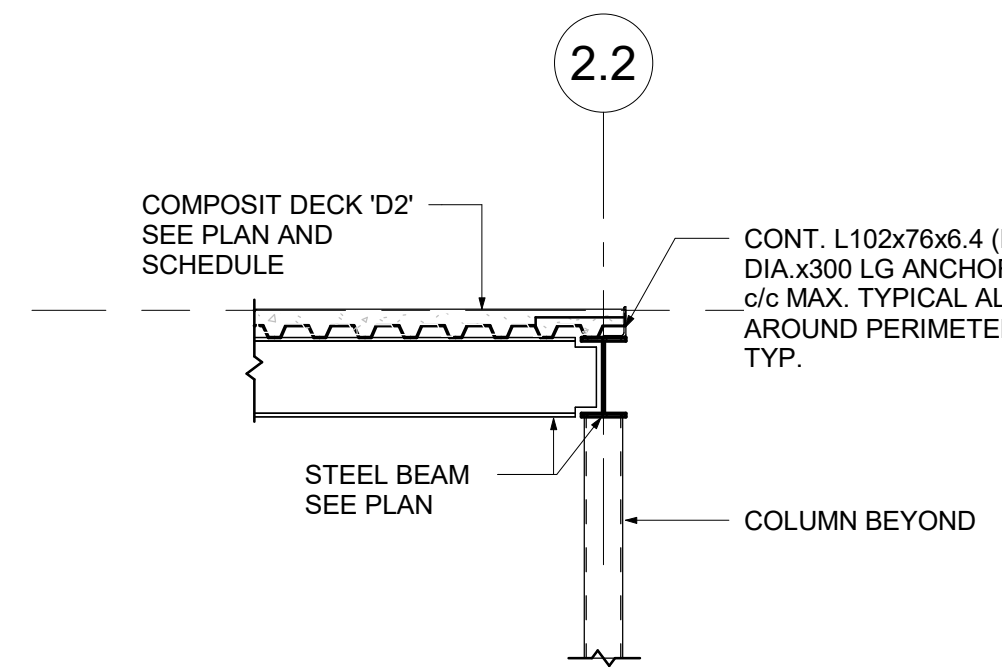
4 SECTION
S402 1:25



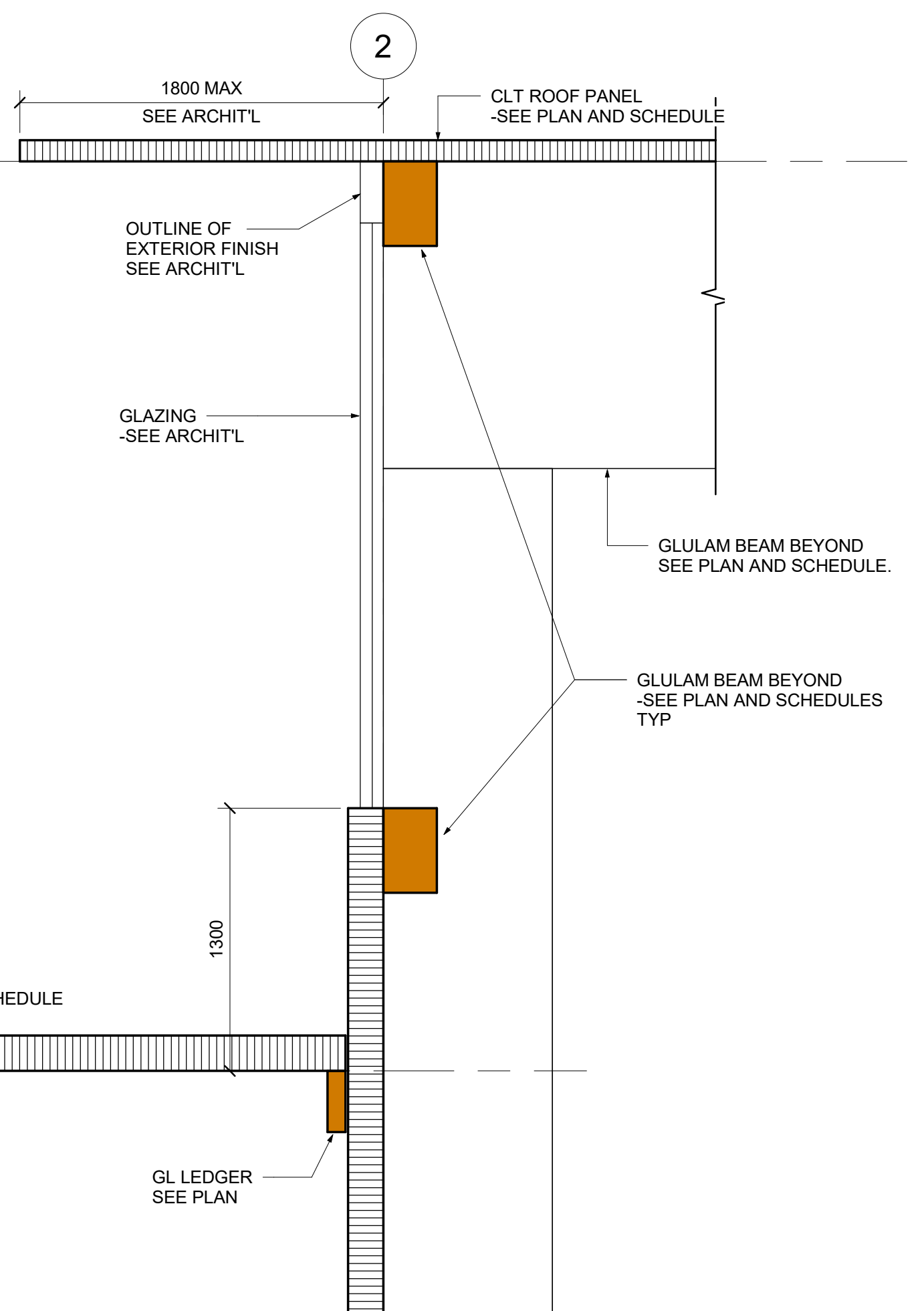
5 SECTION
S402 1:25



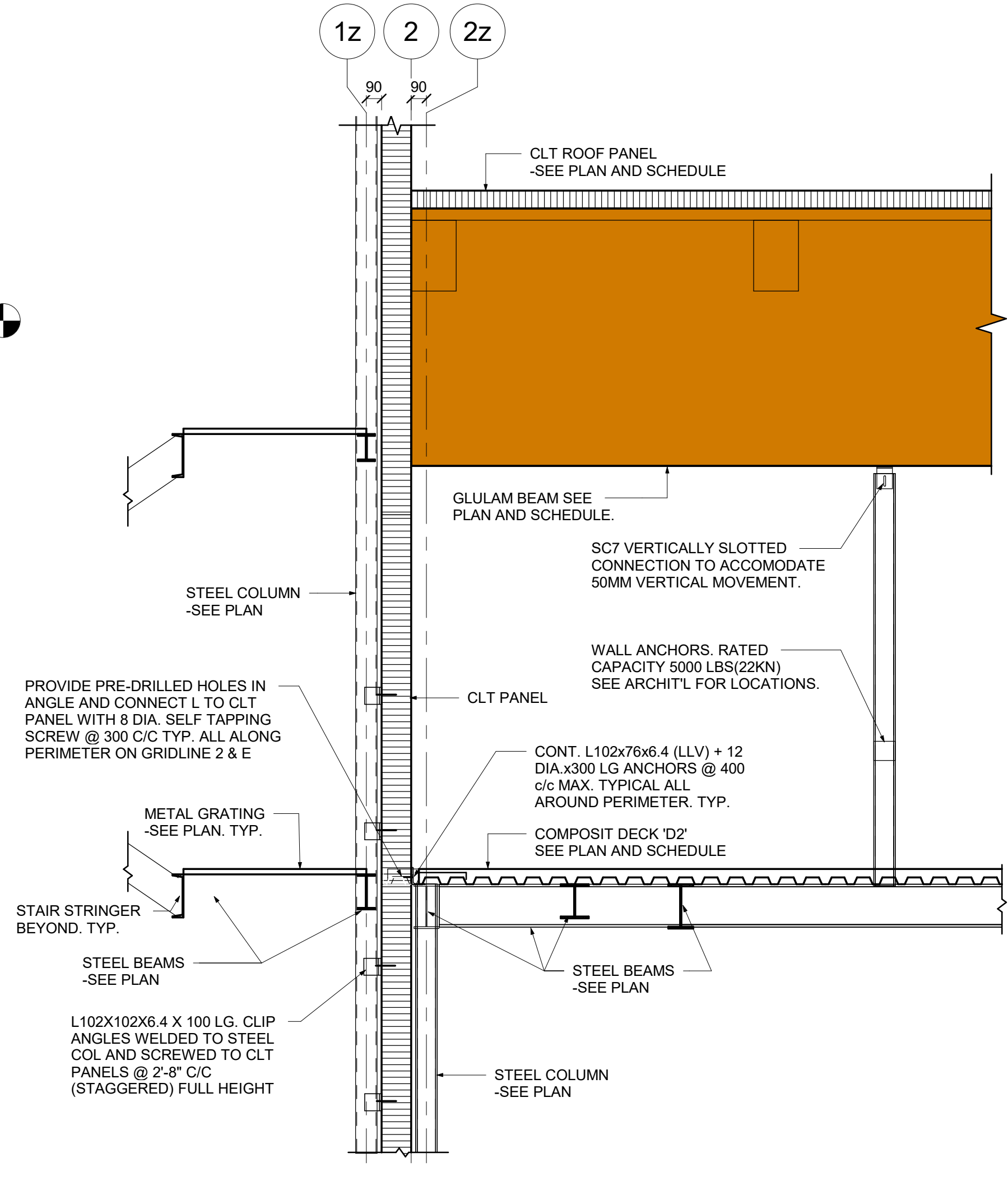
2 SECTION
S402 1:25



6 SECTION
S402 1:25



3 SECTION
S402 1:25



7 SECTION
S402 1:25

ISSUE / REVISIONS

1 ISSUED FOR DESIGN SIGN-OFF	OCT 27, 21
2 ISSUED FOR COORDINATION	FEB 16, 22
3 ISSUED FOR PERMIT REVIEW	FEB 25, 22
4 ISSUED FOR BUILDING PERMIT	MAR 21, 22
5 ISSUED FOR TENDER	AUG 18, 22



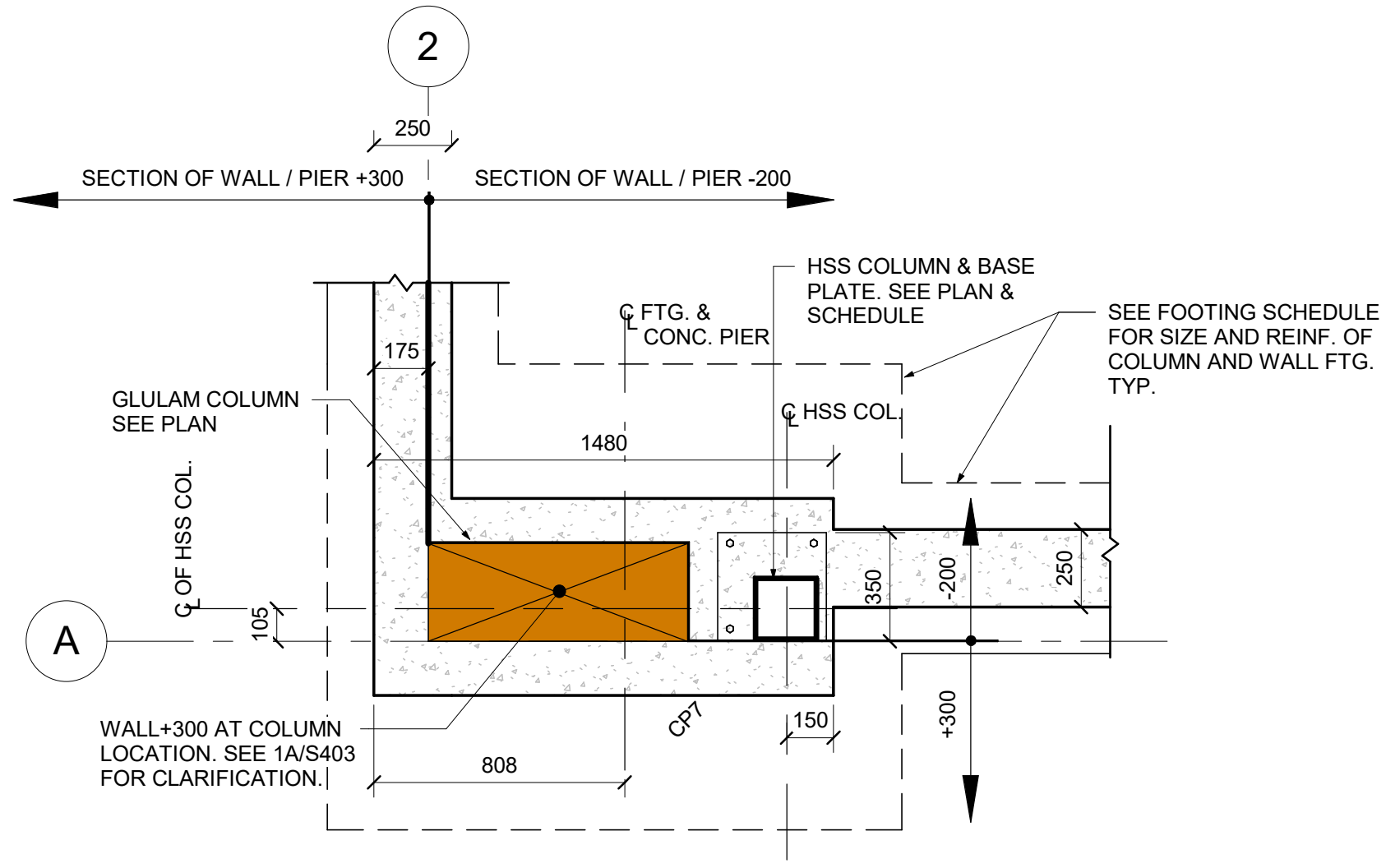
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Contract Documentation

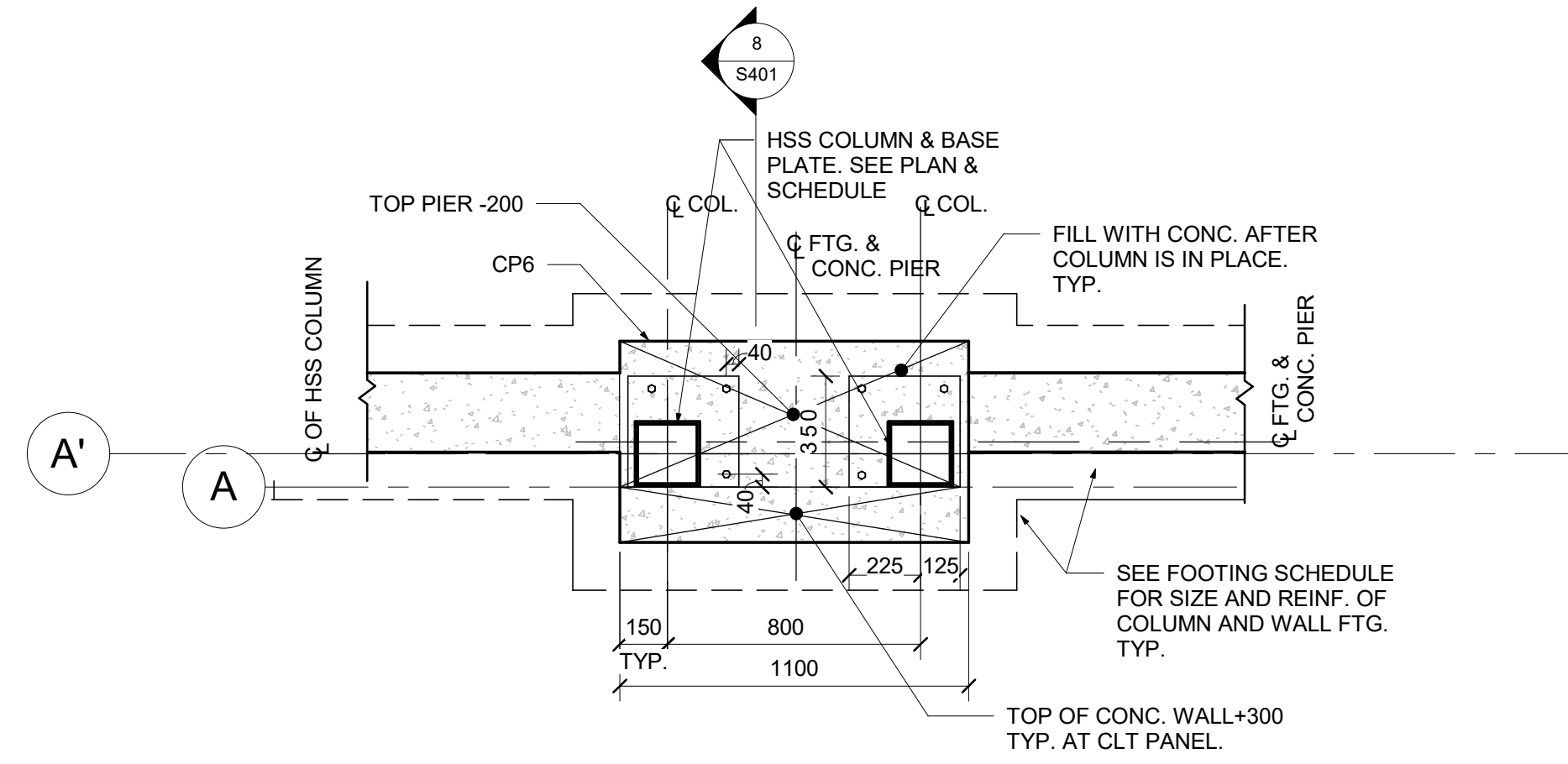
PROJECT No. 2153
START DATE Issue Date

**CITY OF PETERBOROUGH
FIRE STATION NO.2**

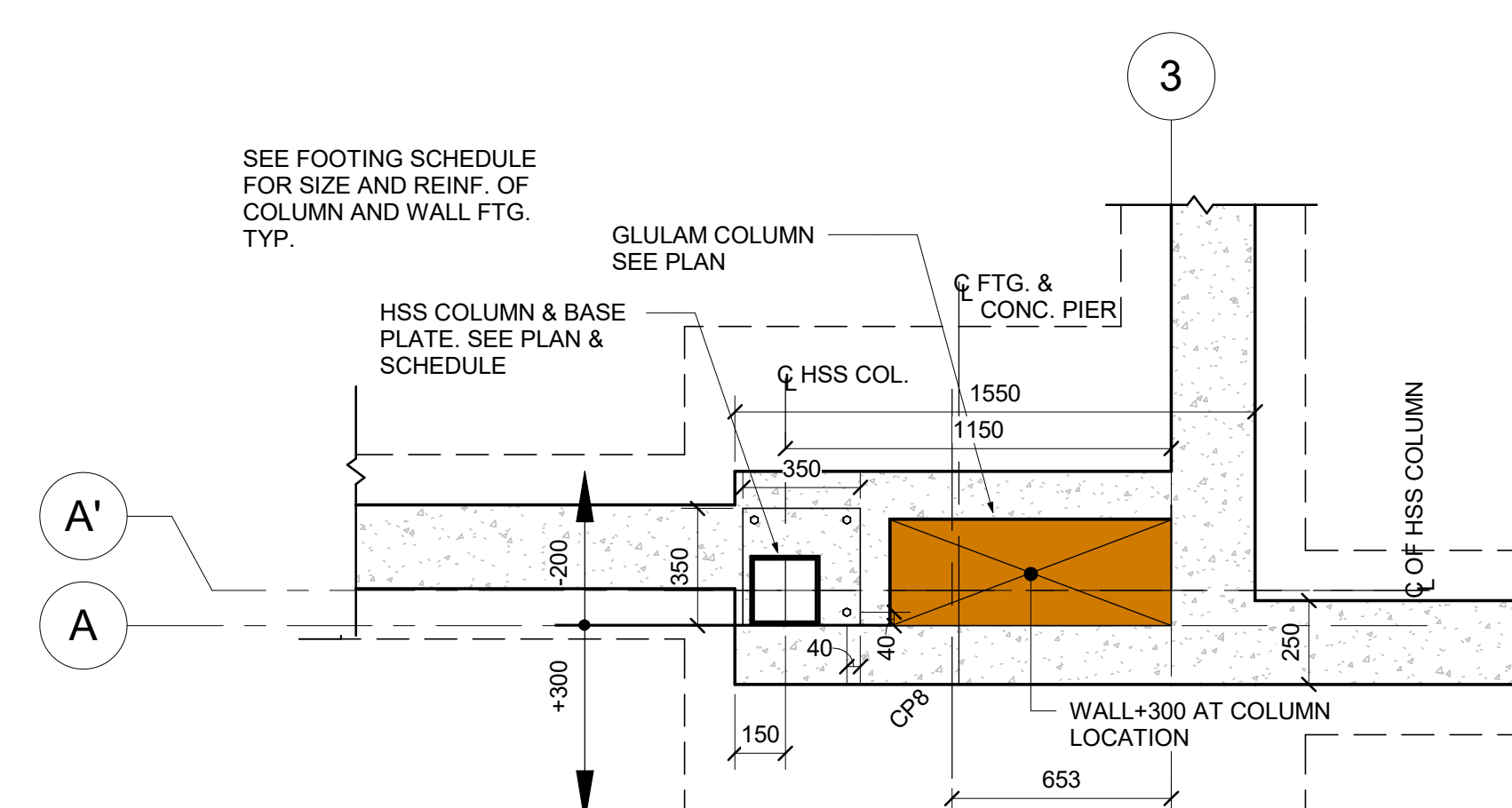
100 Marina Boulevard
Peterborough, Ontario
SECTIONS



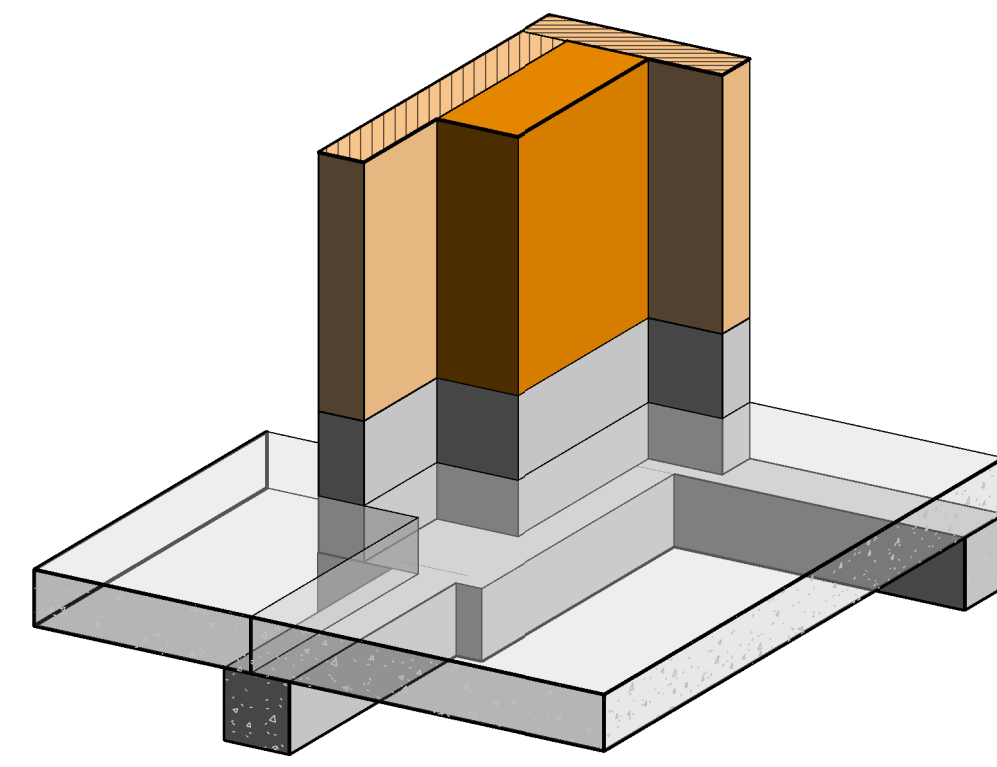
1 PLAN 1:20



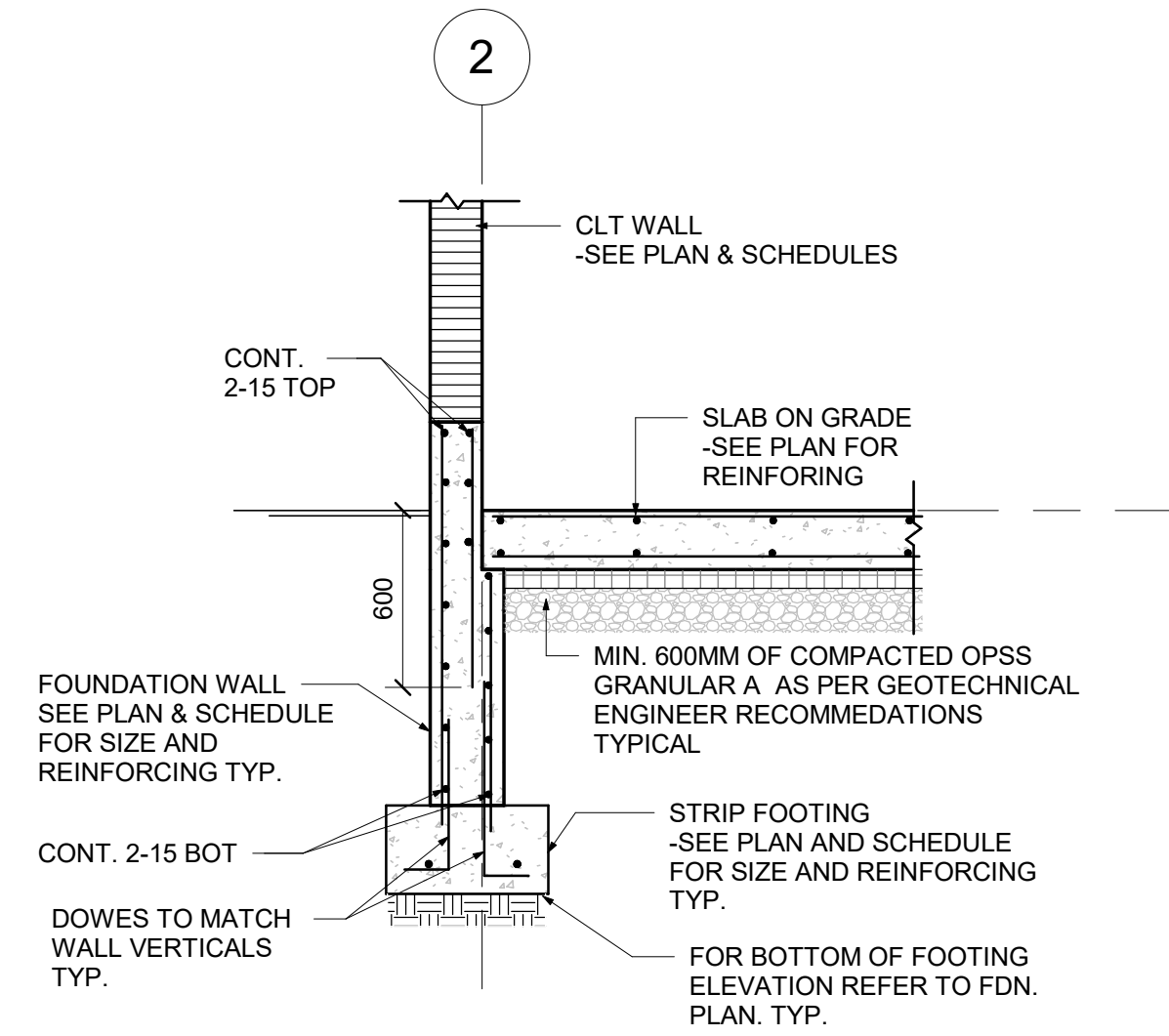
2 PLAN 1:20



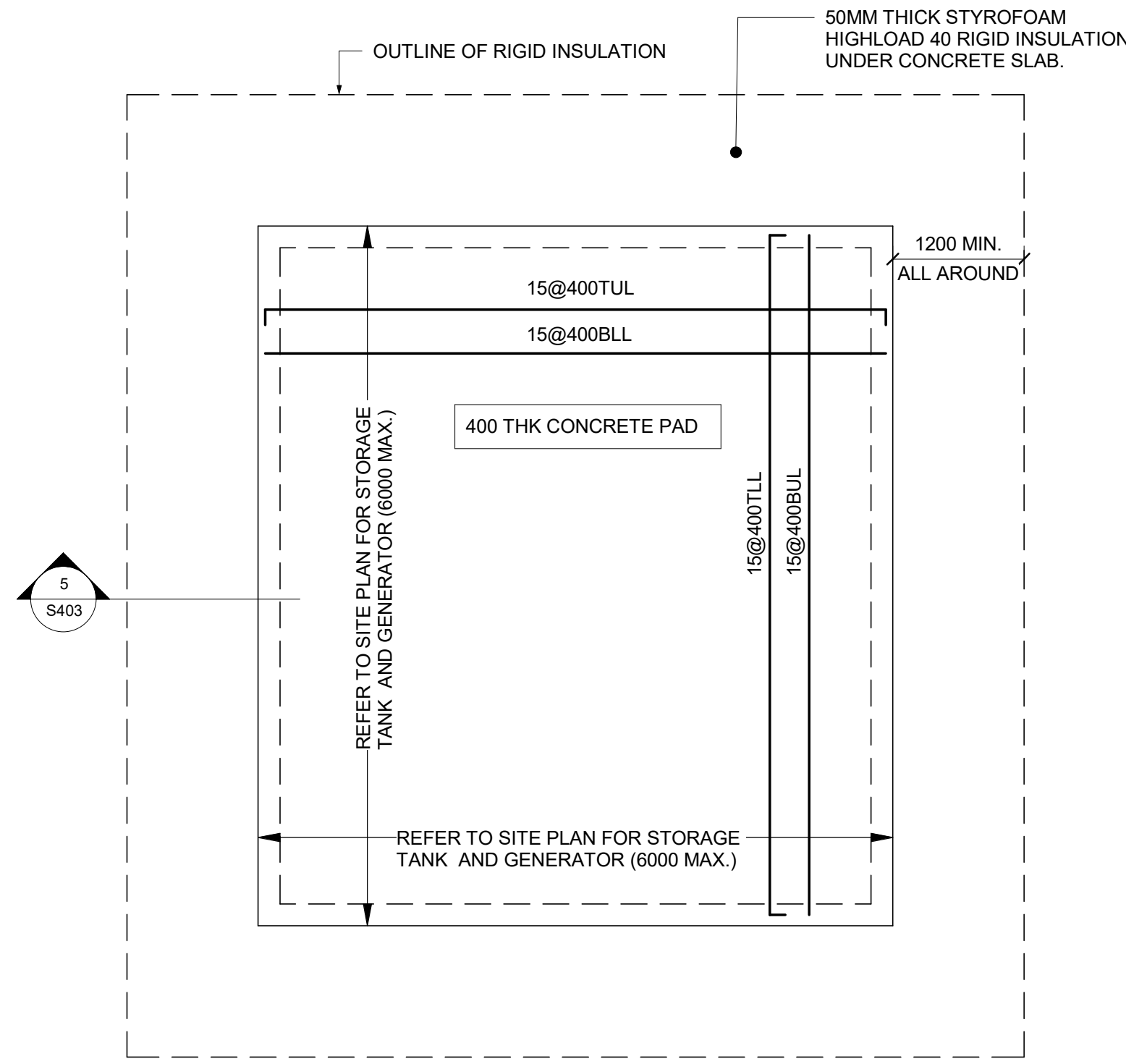
3 PLAN 1:20



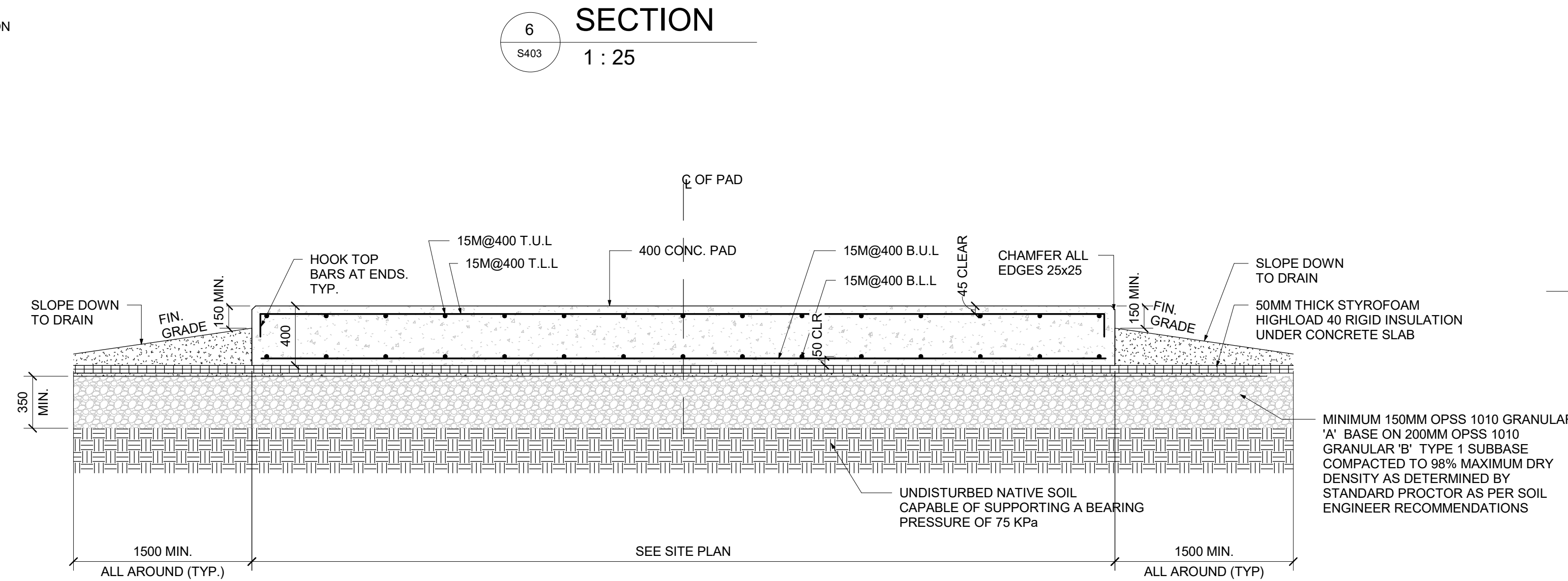
1A 3D ISOMETRIC VIEW



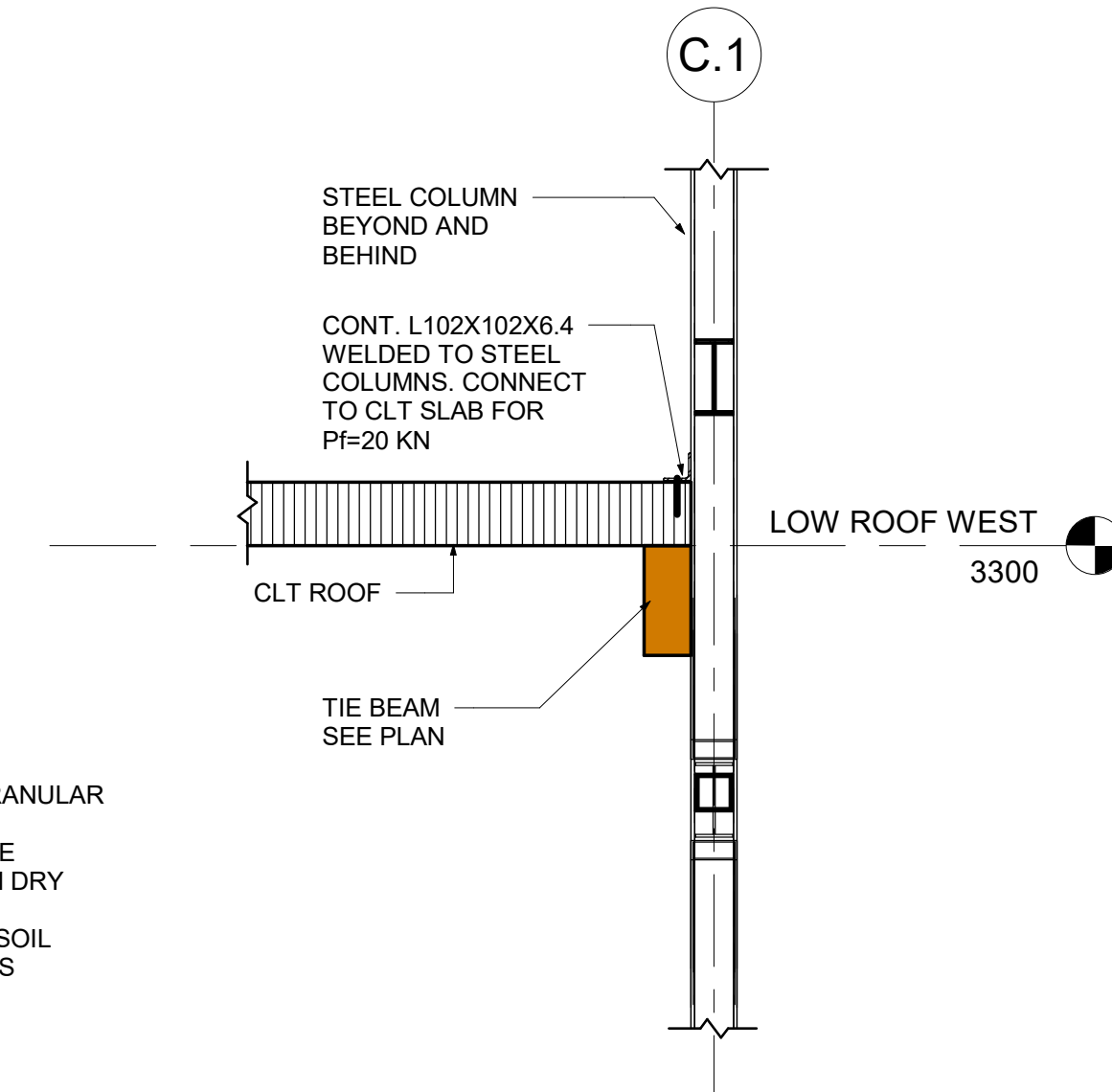
2 SECTION 1:25



4 GENERATOR & FUEL TANK CONCRETE PAD 1:50



5 SECTION 1:25



7 SECTION 1:20

- NOTES:
- TOP OF CONCRETE PAD IS AT ELEVATION + 0.00 (DATUM) UNLESS CROSSED AND NOTED OTHERWISE.
 - PLACE CONCRETE PAD ON UNIFORMLY COMPACTED GRANULAR BACKFILL AS PER SOIL ENGINEER RECOMMENDATIONS.

ISSUE / REVISIONS

2	ISSUED FOR COORDINATION	FEB 16, 22
3	ISSUED FOR PERMIT REVIEW	FEB 25, 22
4	ISSUED FOR BUILDING PERMIT	MAR 21, 22
5	ISSUED FOR TENDER	AUG 18, 22



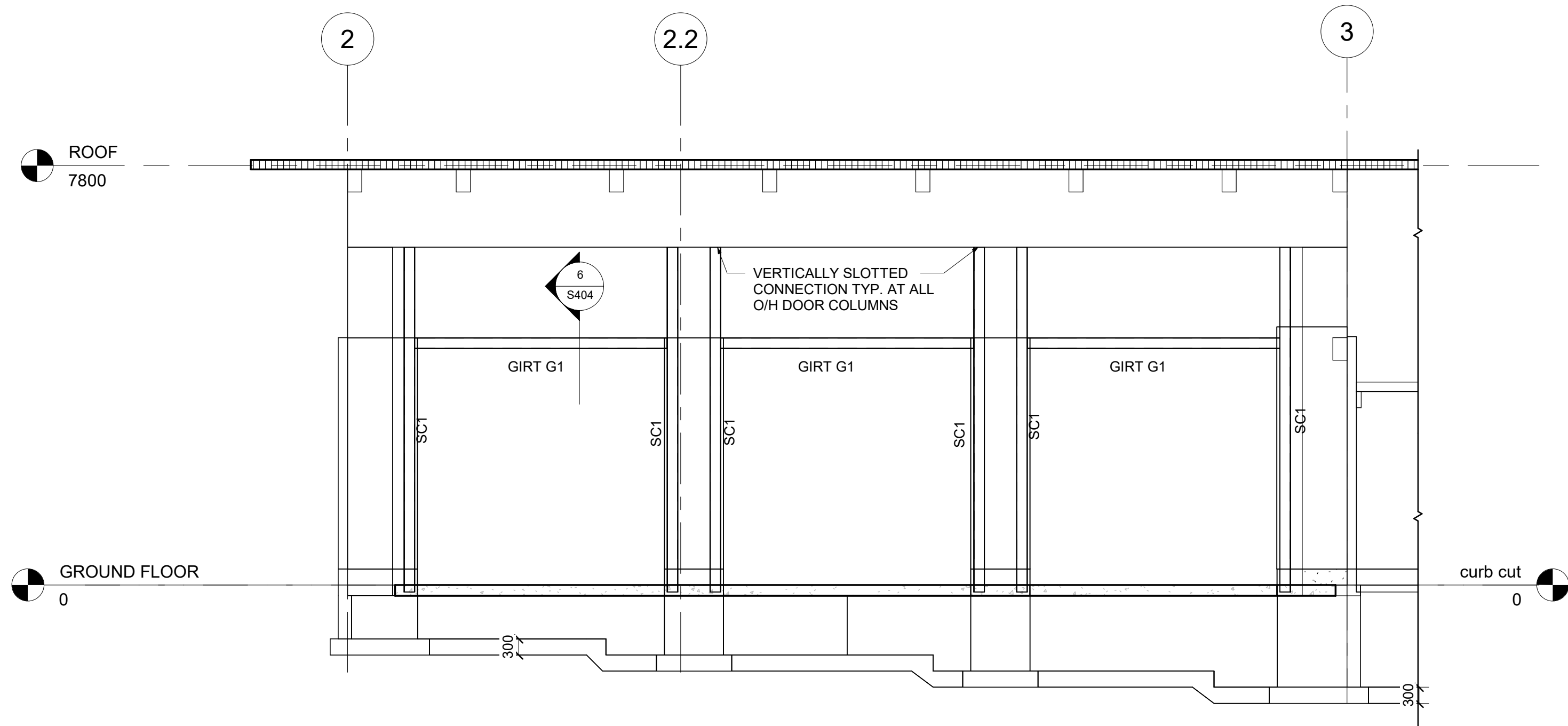
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Contract Documentation

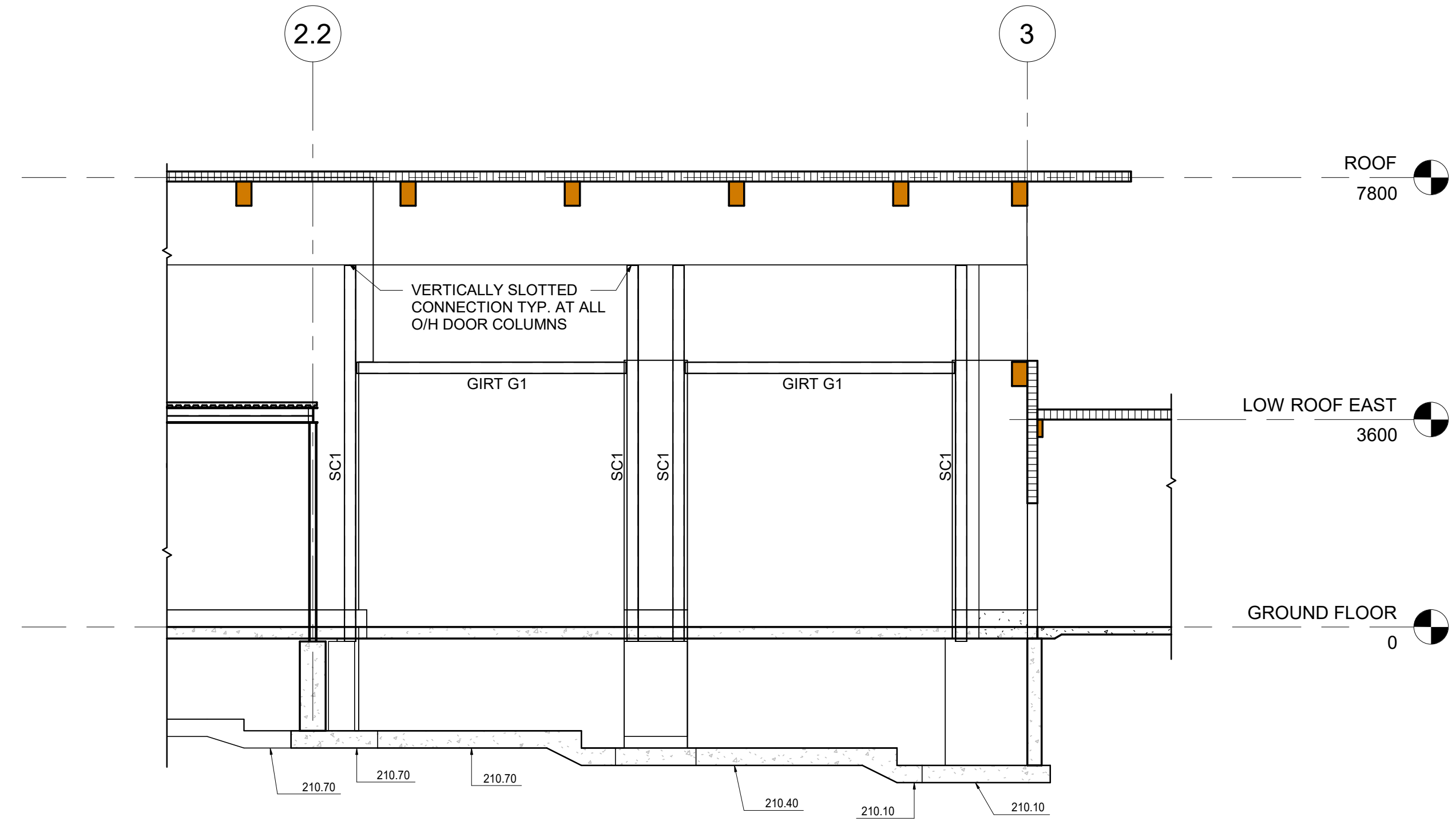
PROJECT No. 2153
START DATE Issue Date

**CITY OF
PETERBOROUGH
FIRE STATION NO.2**

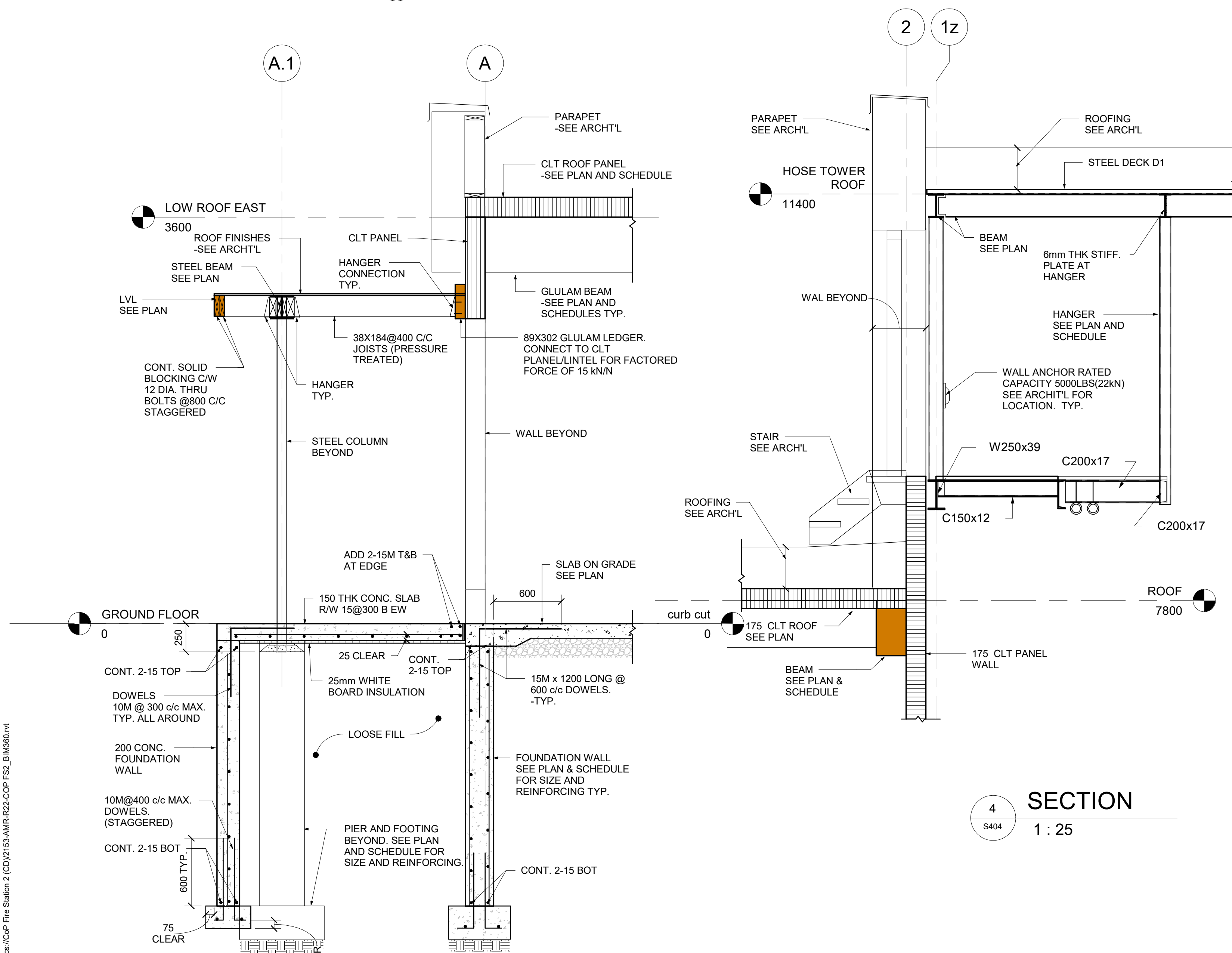
100 Marina Boulevard
Peterborough, Ontario
DETAILS



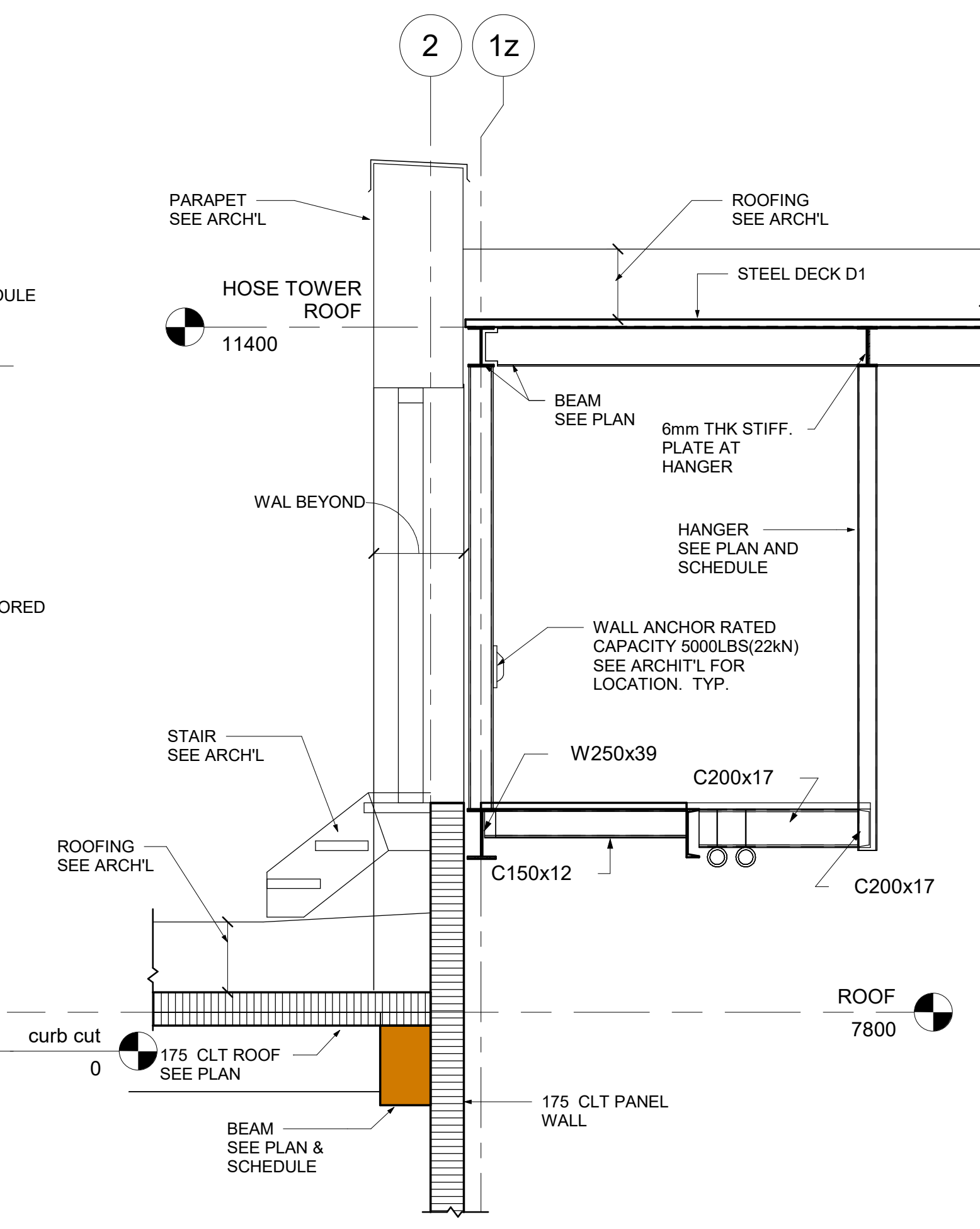
1 PART ELEVATION GRID A
S404 1 : 75



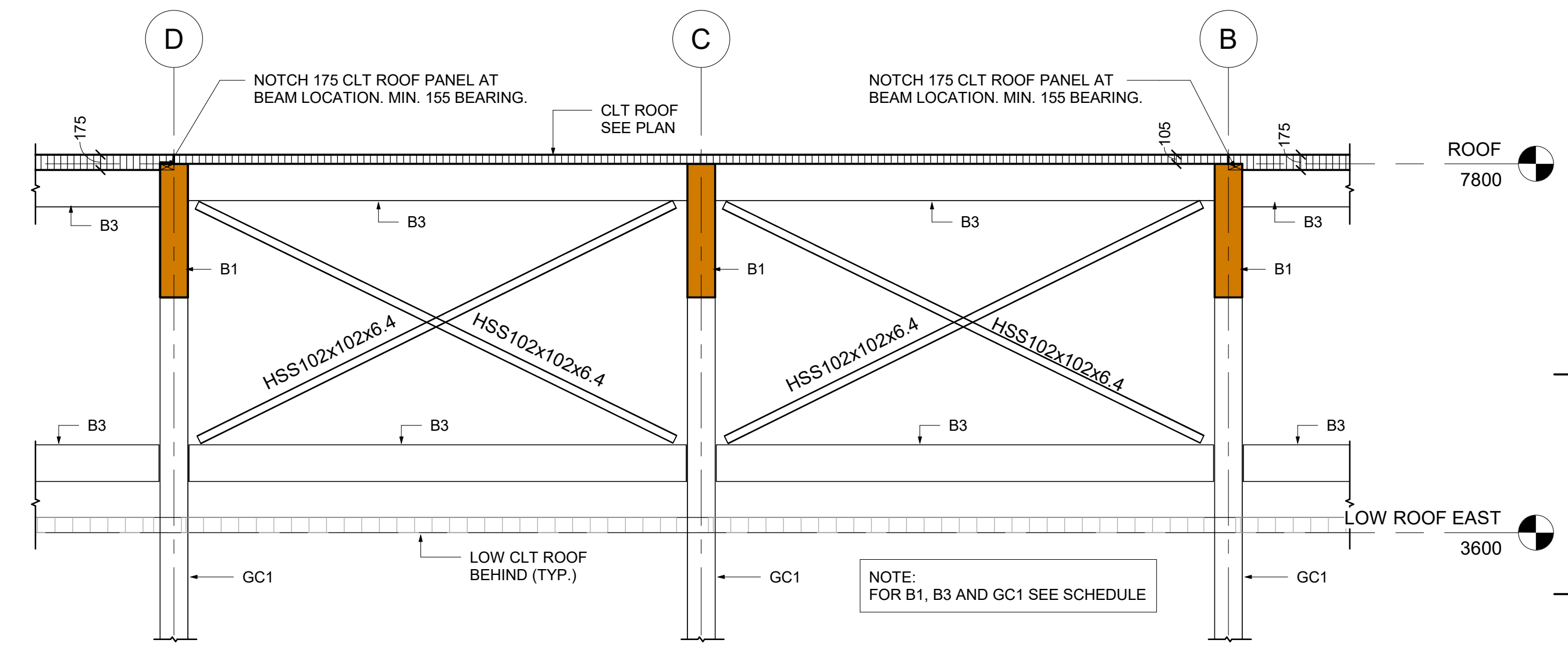
2 PART ELEVATION GRID E
S404 1 : 75



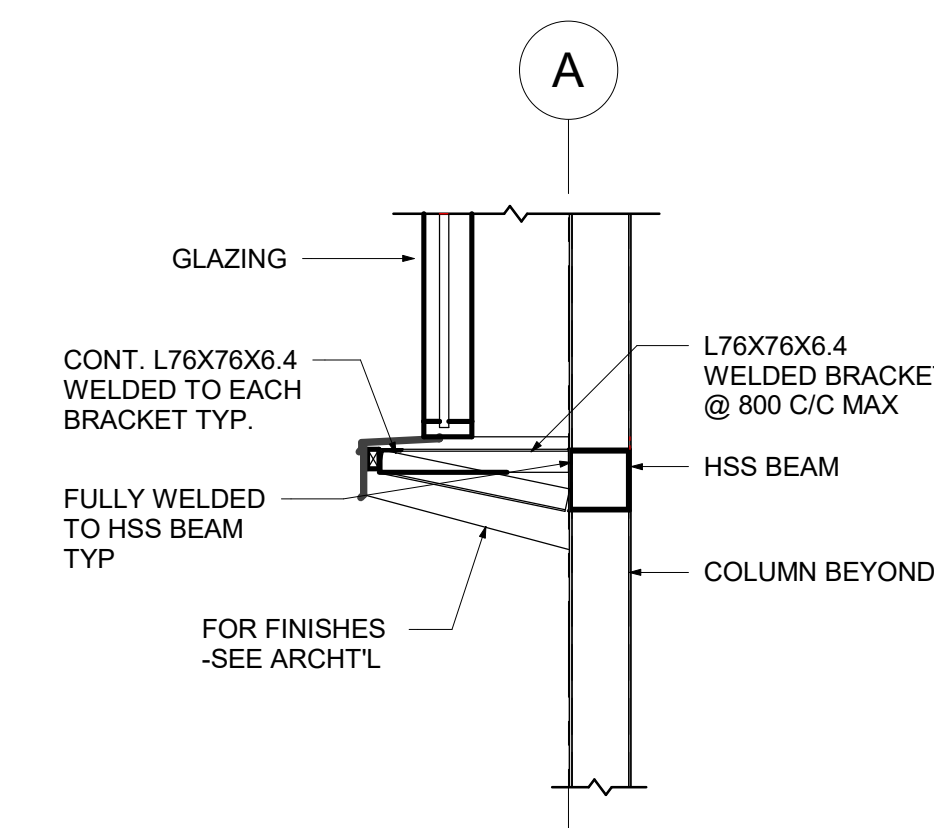
3 SECTION
S404 1 : 25



4 SECTION
S404 1 : 25



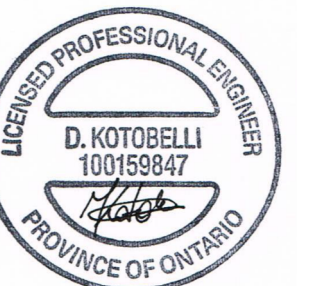
5 SECTION
S404 1 : 50



6 SECTION
S404 1 : 25

ISSUE / REVISIONS

2	ISSUED FOR COORDINATION	FEB 16, 22
3	ISSUED FOR PERMIT REVIEW	FEB 25, 22
4	ISSUED FOR BUILDING PERMIT	MAR 21, 22
5	ISSUED FOR TENDER	AUG 18, 22



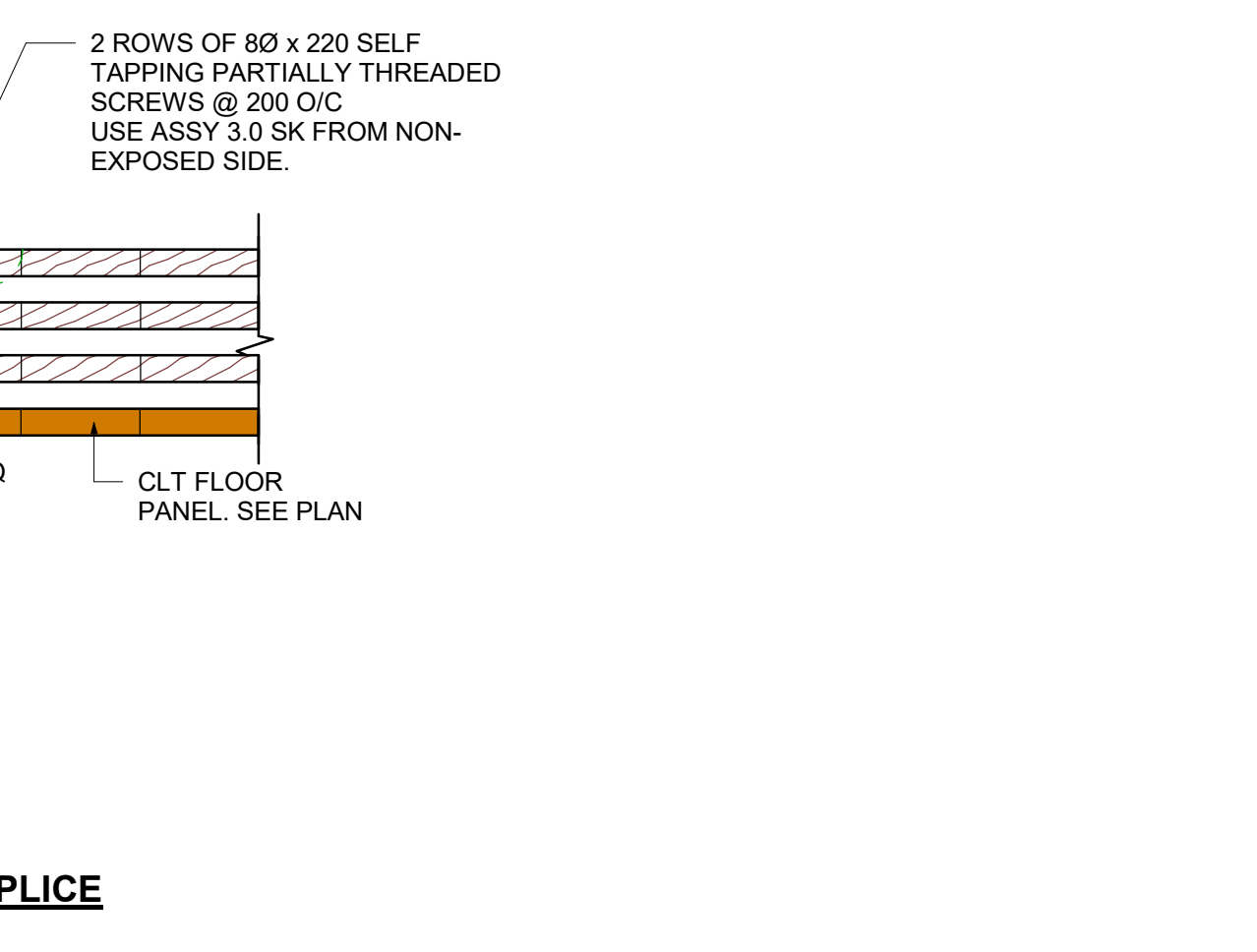
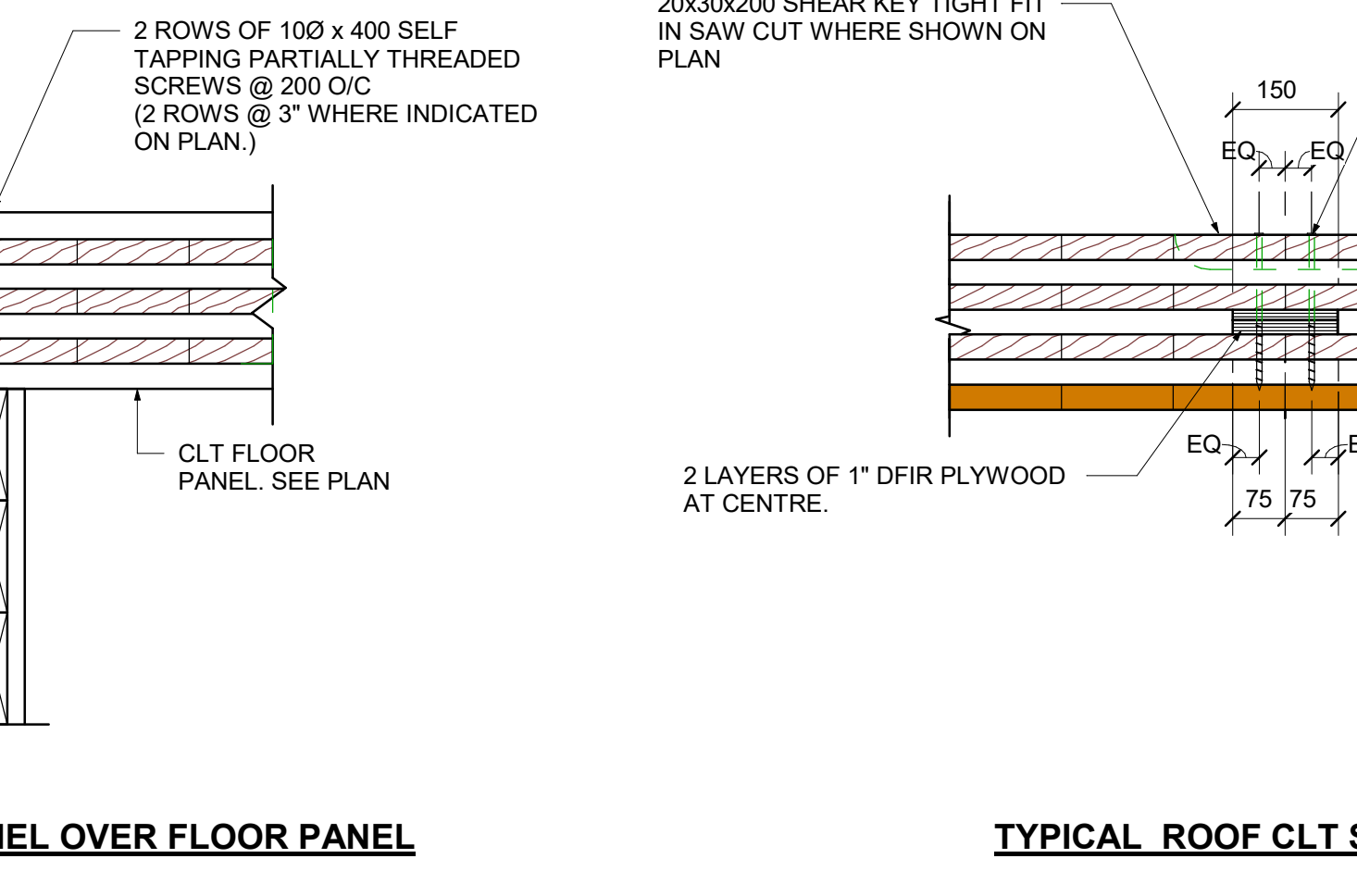
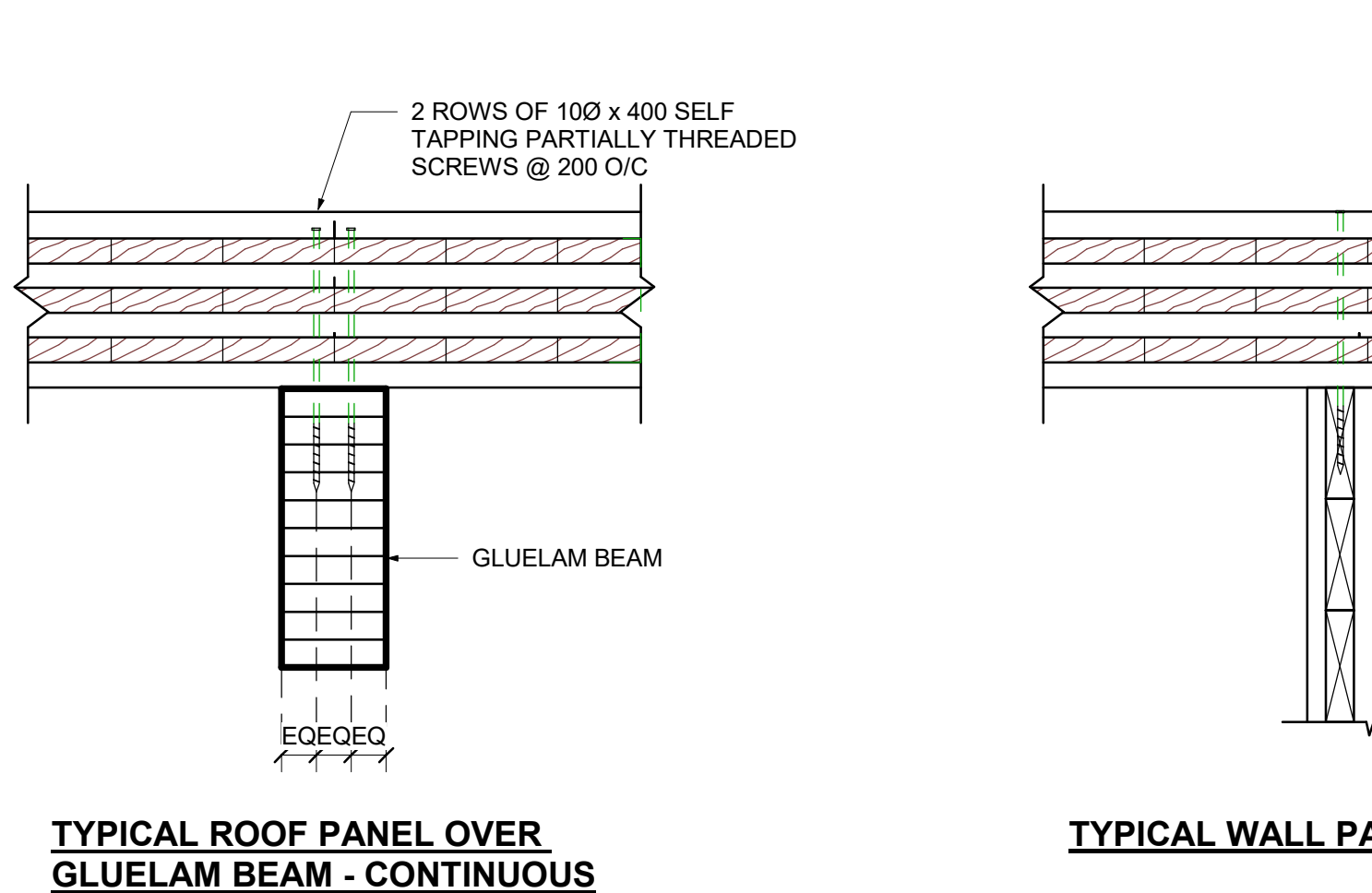
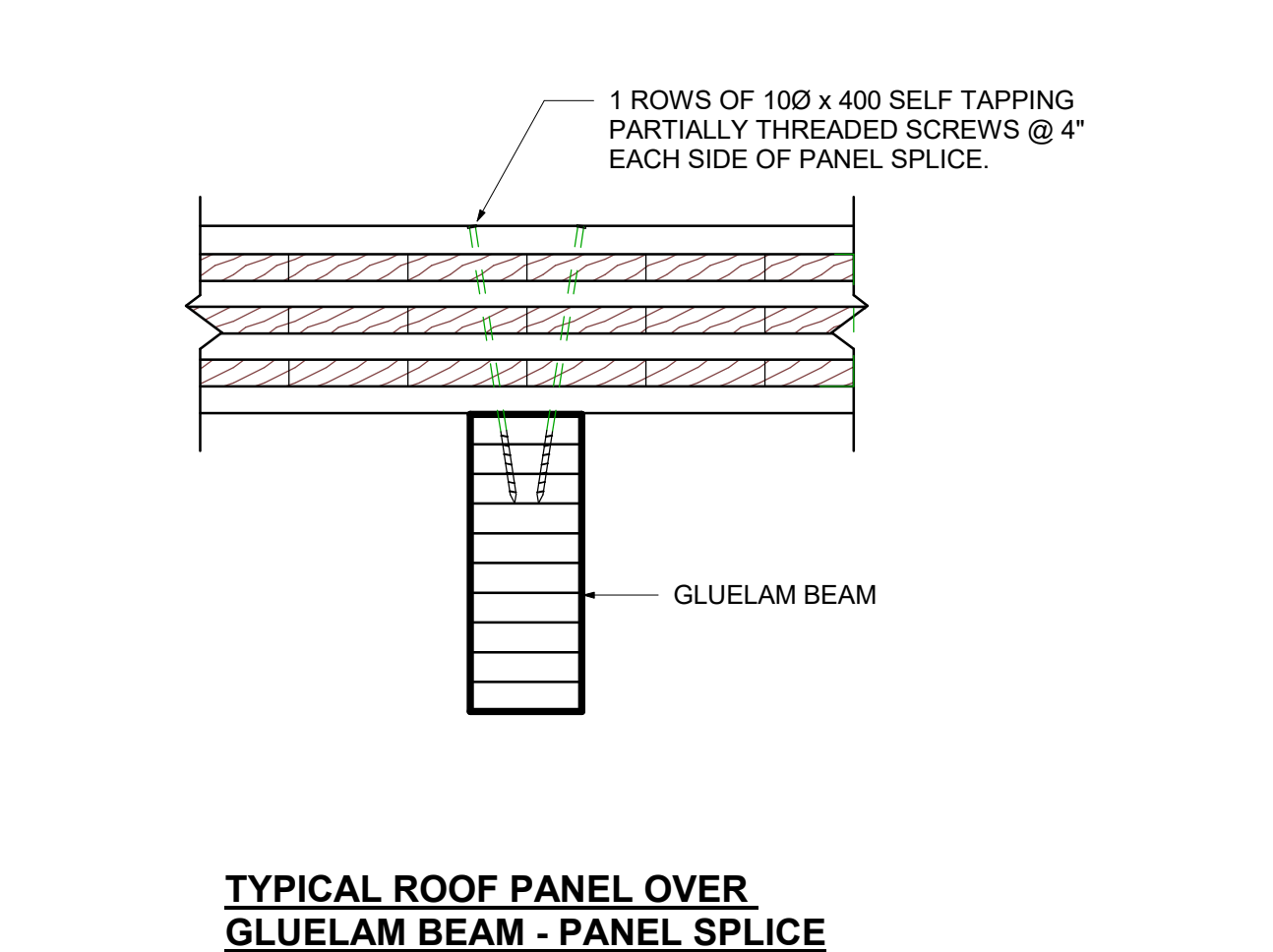
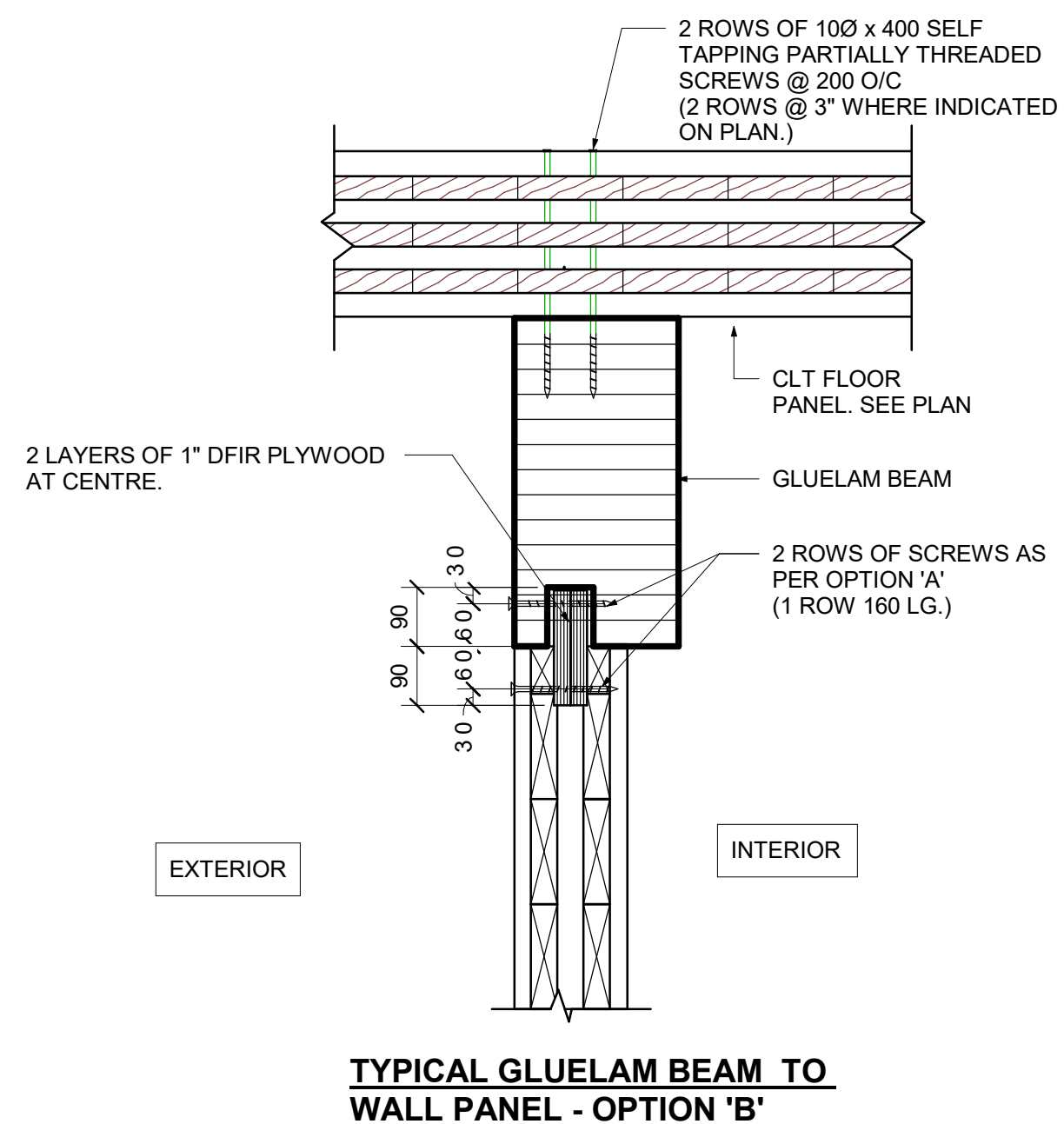
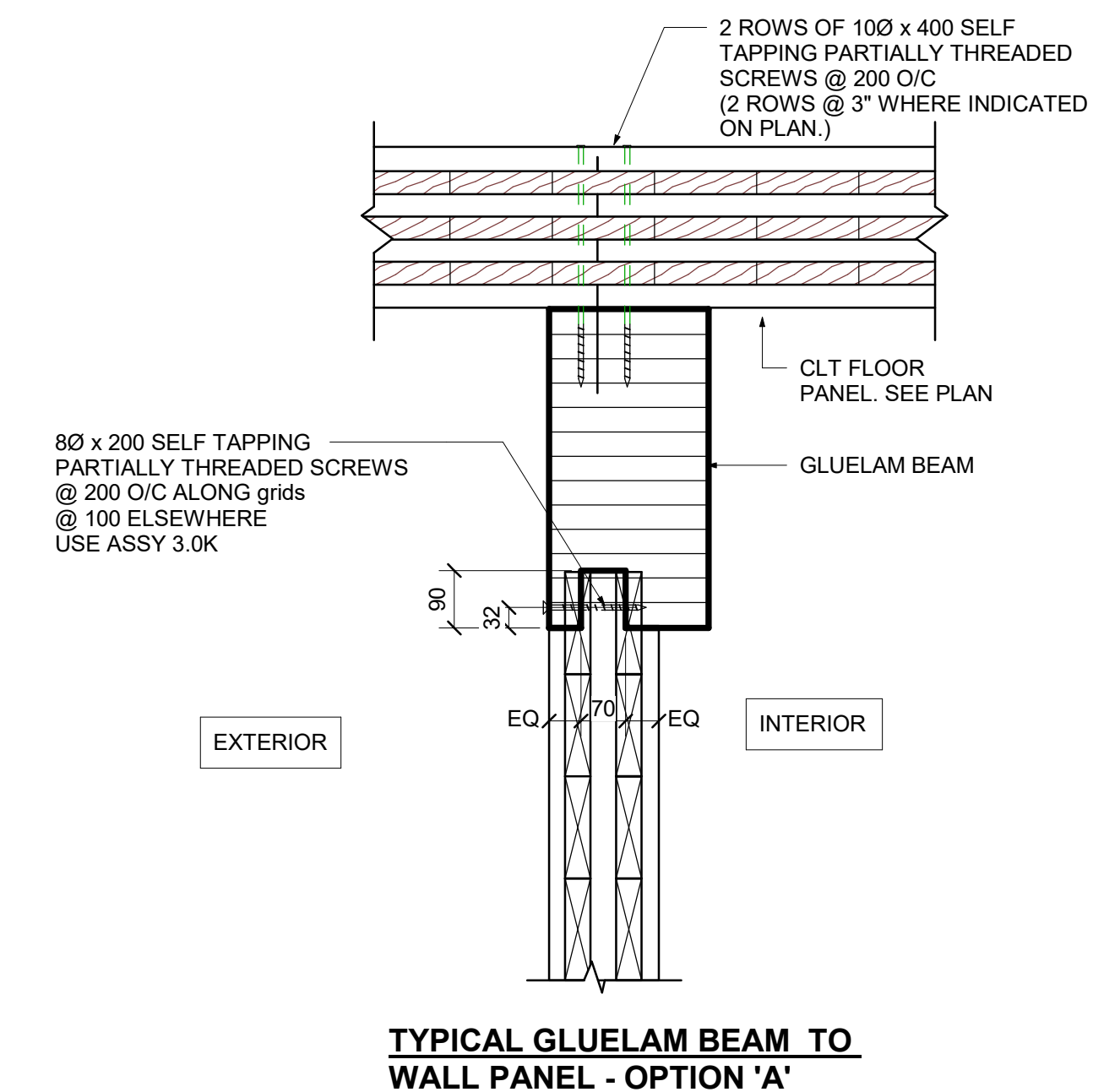
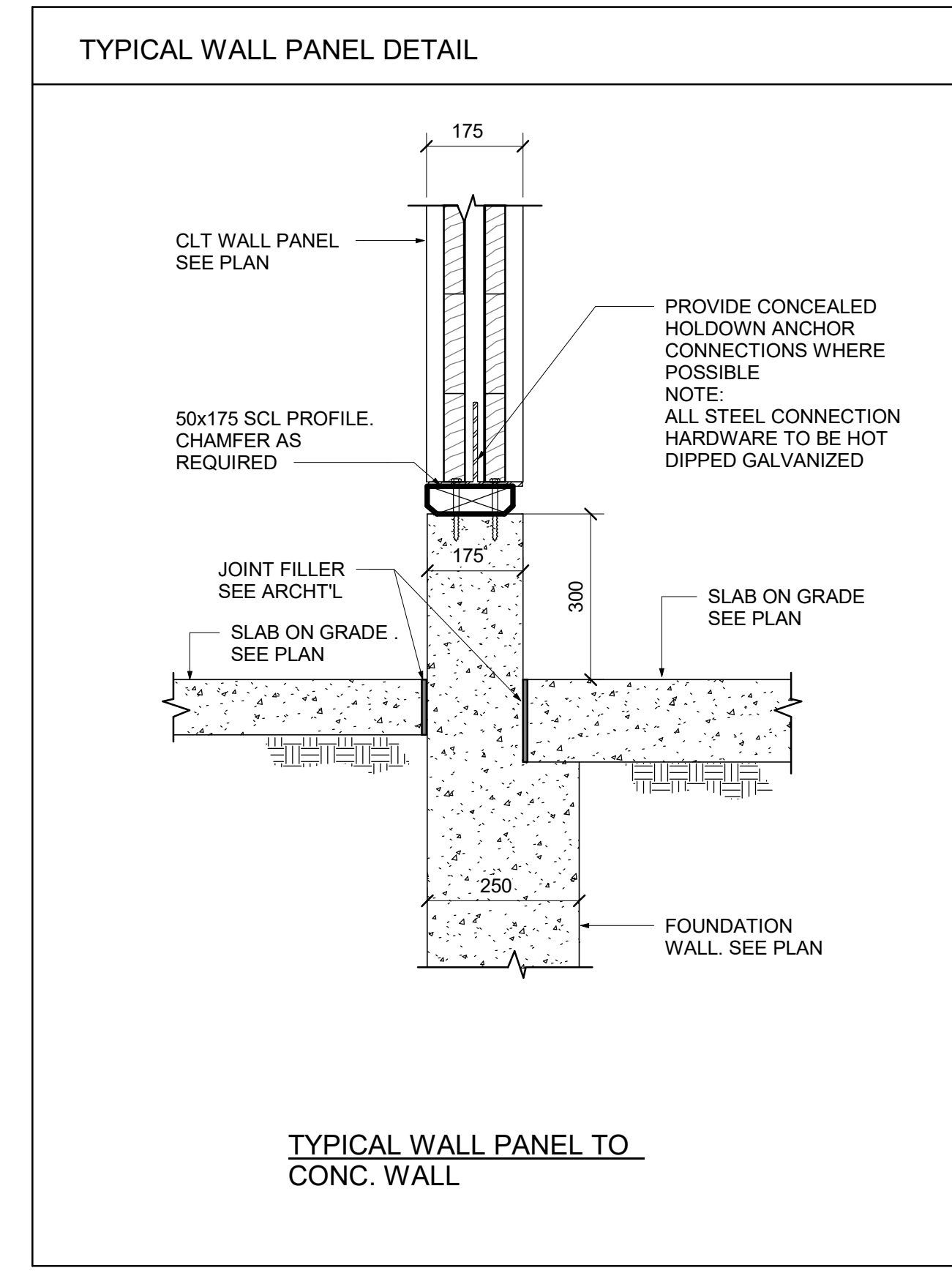
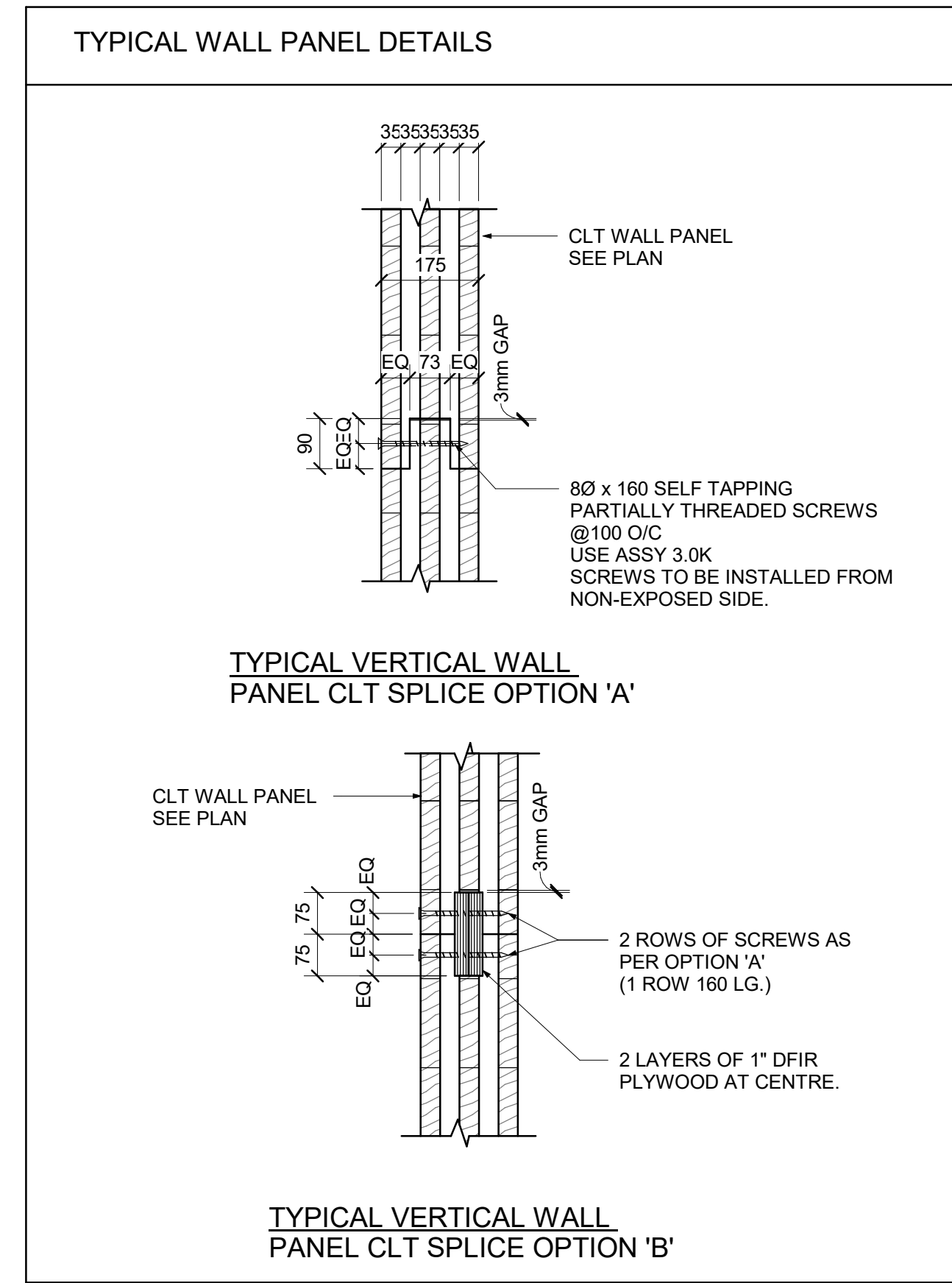
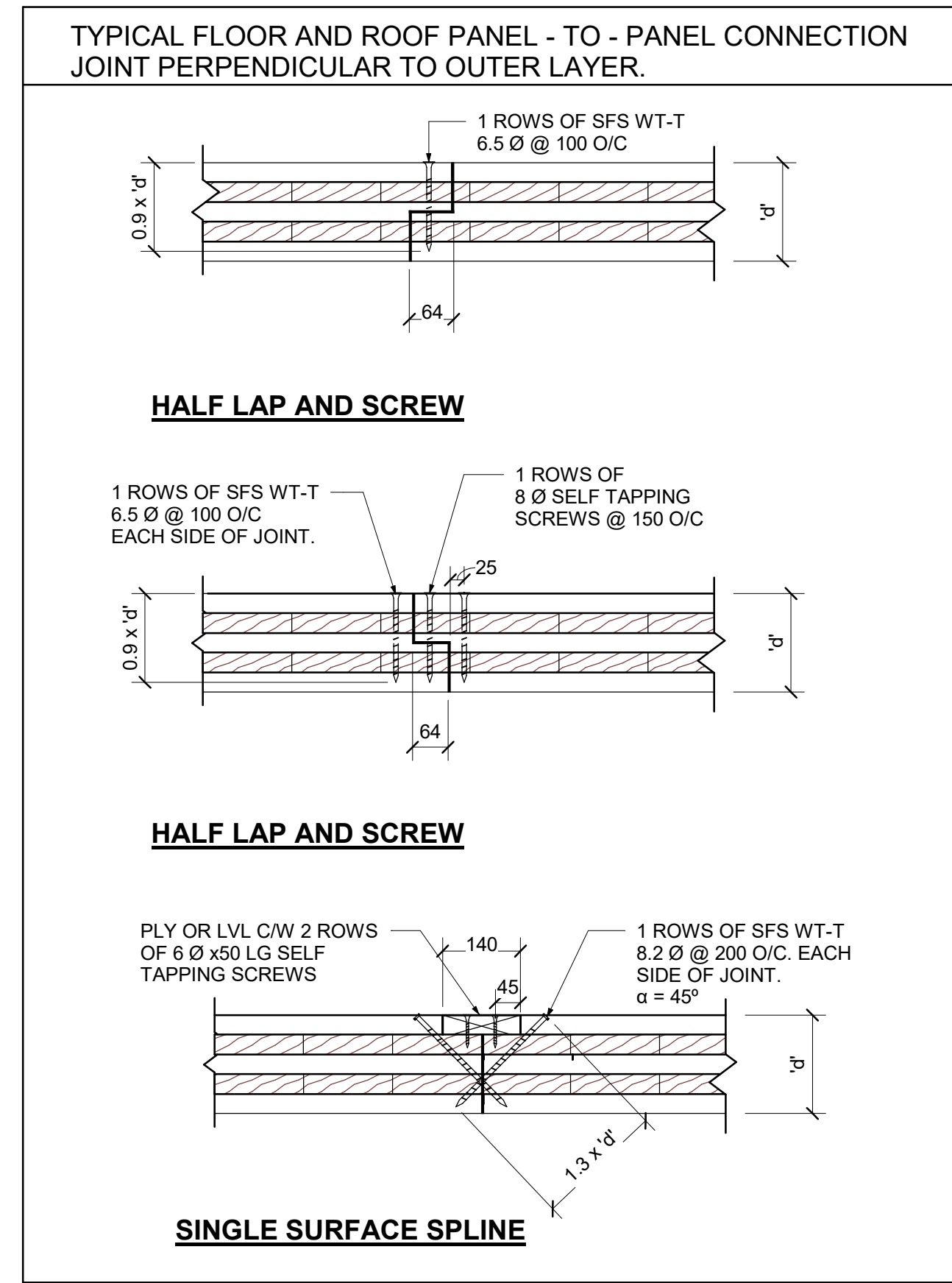
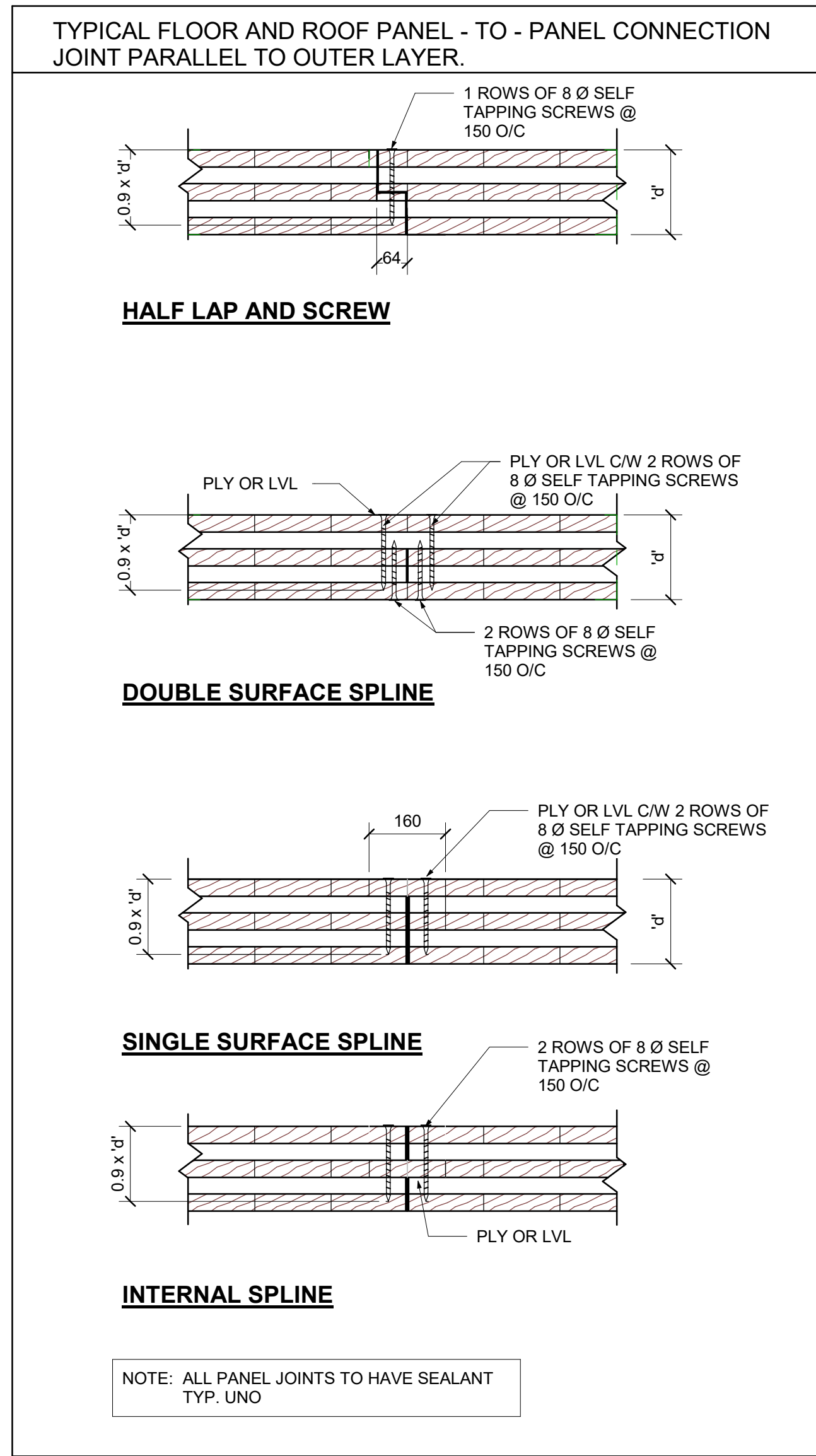
All dimensions to be checked and verified on site. Do not scale drawings. Any discrepancies are to be reported to the Consultant. All drawings remain the property of the Consultant. Only latest approved drawings to be used for construction.

Contract Documentation

PROJECT No. 2153
START DATE Issue Date

CITY OF
PETERBOROUGH
FIRE STATION NO.2

100 Marina Boulevard
Peterborough, Ontario
SECTIONS



ISSUE / REVISIONS

1 ISSUED FOR DESIGN SIGN-OFF	OCT 27, 21
2 ISSUED FOR COORDINATION	FEB 16, 22
3 ISSUED FOR PERMIT REVIEW	FEB 25, 22
4 ISSUED FOR BUILDING PERMIT	MAR 21, 22
5 ISSUED FOR TENDER	AUG 18, 22



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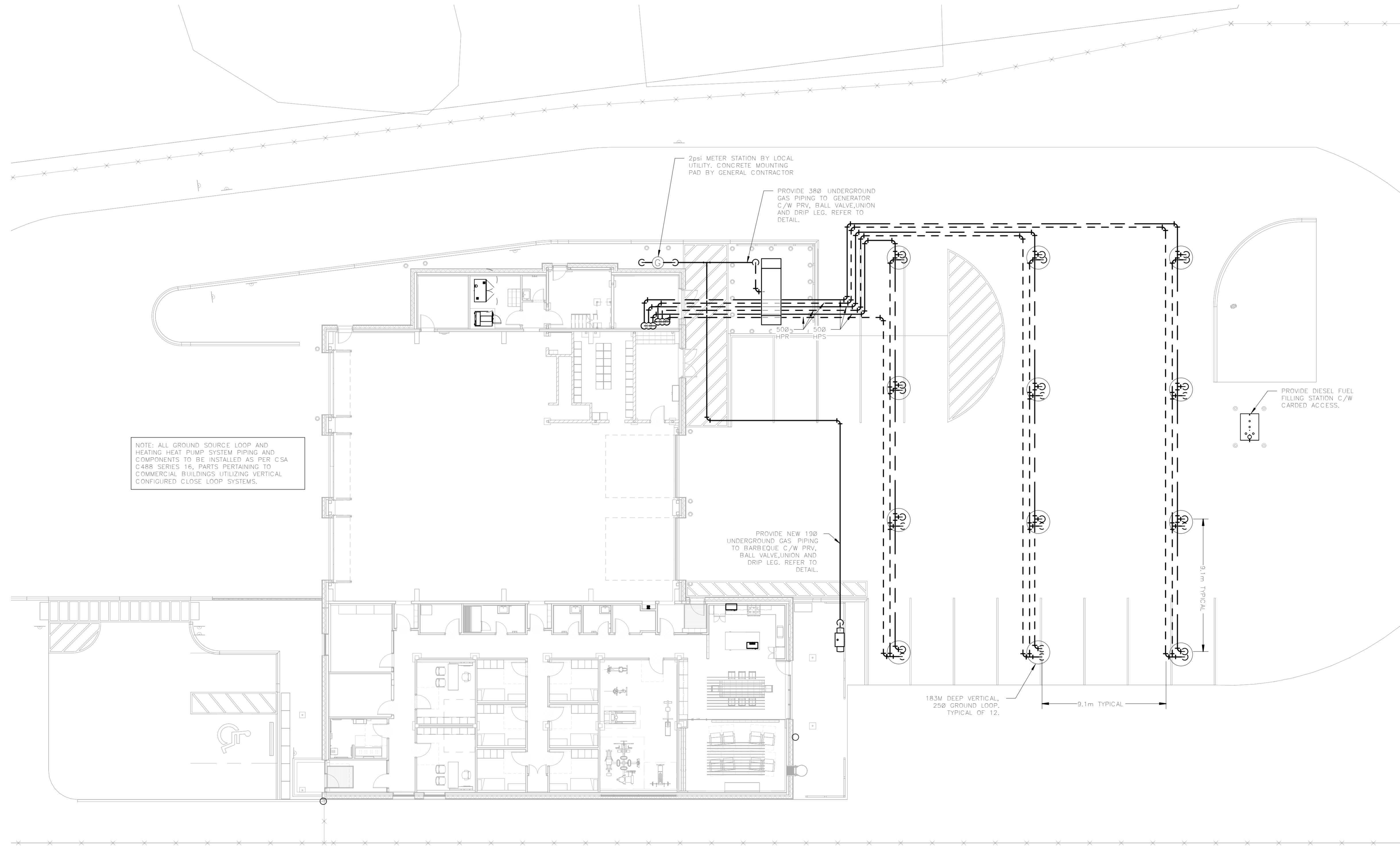
Contract Documentation
PROJECT No. 2153
START DATE Issue Date

CITY OF PETERBOROUGH
FIRE STATION NO.2
100 Marina Boulevard
Peterborough, Ontario
CLT PANEL TYPICAL DETAILS



ISSUE / REVISIONS

1	Issued for Site Plan Approval	Jan.28.22
2	Issued for Building Permit	Mar.21.22
3	Issued for QA/QC	Apr.14.22
4	Issued for Building Permit Response	Apr.25.22
5	Issued for Tender	Jul.07.22



All dimensions to be checked and verified on site. Do not scale drawings. Any discrepancies are to be reported to the Consultant. All drawings remain the property of the Consultant. Only latest approved drawings to be used for construction.

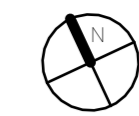
Project Status

PROJECT No. 21-100
START DATE October 2021

**CITY OF
PETERBOROUGH
FIRE STATION NO.2**

100 Marina Boulevard, Peterborough
ON

**SITE PLAN -
GEOTHERMAL PIPING**



ISSUE / REVISIONS

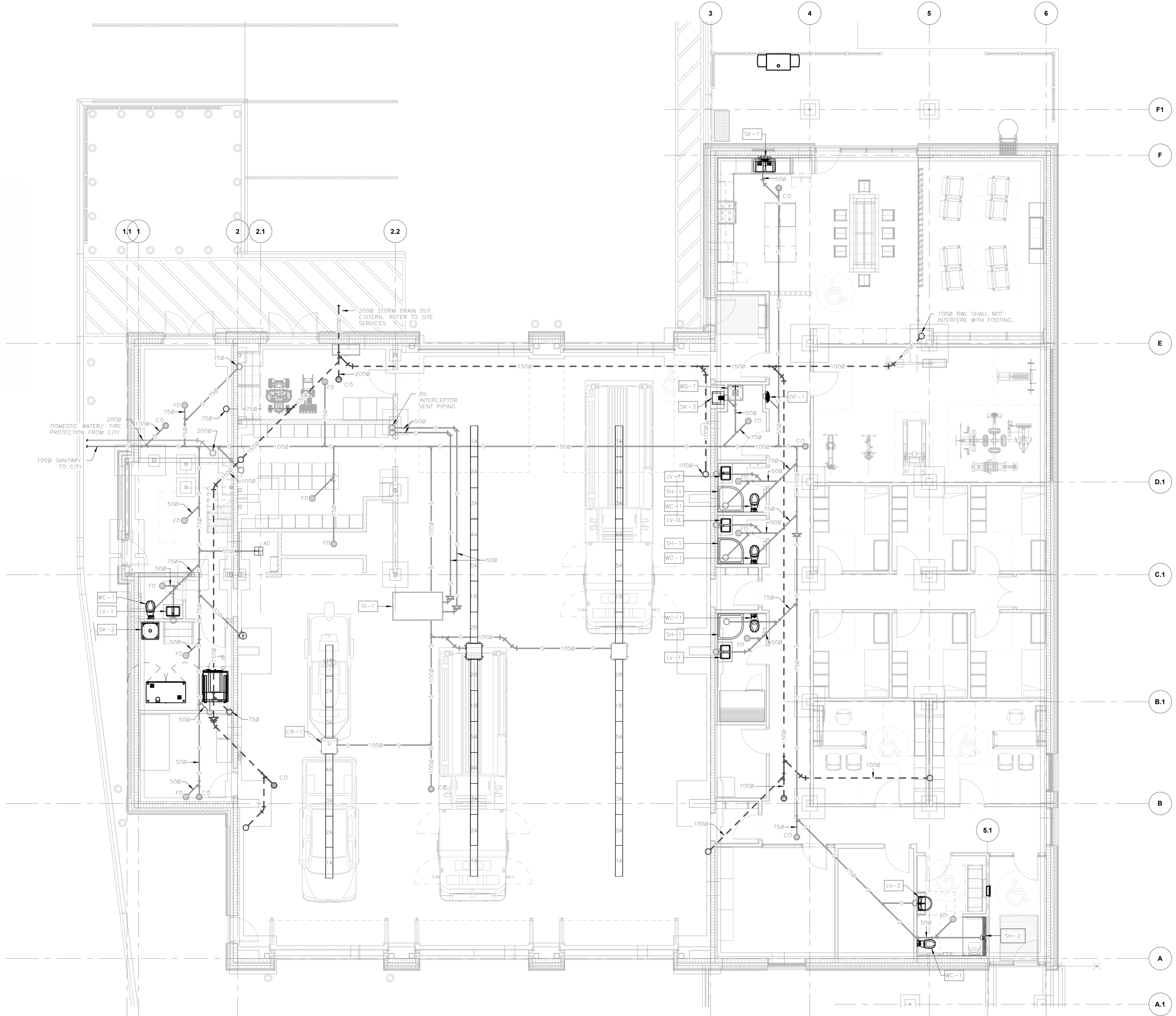
1	Issued for Design Sign-Off	Oct. 27.21
2	Issued for Costing	Nov. 02.21
3	Issued for Building Permit	Mar. 21.22
4	Issued for QA/QC	Apr. 14.22
5	Issued for Tender	Jul. 07.22

GENERAL NEW PLUMBING NOTES:

1. THE CONTRACTOR SHALL INVESTIGATE AND CONFIRM SERVICES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENGINEER.
2. REFER TO ARCHITECTURAL DRAWINGS AND/OR GENERAL CONTRACTOR FOR CEILING HEIGHTS TO ENSURE ALL SERVICES ARE CONCEALED WITHIN AVAILABLE CEILING SPACE. RUN ALL NEW SERVICES UP IN JOIST SPACE AND BETWEEN LIGHTS AS NOTED OR AS REQUIRED.
3. PREPARE INTERFERENCE DRAWINGS AND COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.
4. COVER ALL FLOOR DRAINS DURING CONSTRUCTION TO PREVENT DEBRIS FROM FALLING IN DRAINS OR GROUT BEING POURED DOWN DRAINS.
5. PROVIDE NEW PLUMBING VENTS THROUGH ROOF AS REQUIRED.
6. ALLOW FOR THE INSULATION AND LABELING OF NEW PIPING WITHIN CEILING SPACE IN AREA OF WORK INCLUDING WATER AND STORM.
7. FIRE STOP ALL NEW PIPING THROUGH RATED WALLS IN AREA OF WORK.
8. THE CONTRACTOR SHALL FLUSH, SCOPE, AND PROVIDE VIDEO INSPECTION OF THE SANITARY SYSTEM AFTER COMPLETION OF WORK AND PRIOR TO SUBSTANTIAL COMPLETION. FLUSHING, SCOPING AND VIDEO SHALL INCLUDE AREA OF WORK TO WHERE IT TIES INTO THE MAIN. SUBMIT REPORT AND VIDEO ON USB.

TYPICAL PLUMBING PIPE SIZING					
	DCW	DHW	DTW	SANITARY	VENT
WC (FLUSH VALVE)	25ø	---	---	75ø	38ø
LAVATORY	13ø	13ø	---	32ø	32ø
SHOWER	13ø	13ø	---	38ø	32ø
SINK (DOMESTIC)	13ø	13ø	---	38ø	32ø
MOP SINK	13ø	13ø	---	38ø	32ø
CLOTHES WASHER	13ø	13ø	---	50ø	32ø
DISHWASHER	---	13ø	---	TIE INTO SINK	---
EYEWASH	---	---	13ø	32ø	32ø
EYEWASH/SHOWER	---	---	32ø	38ø	32ø
HOSEBIBB	19ø	---	---	---	---
50ø FD/CO	---	---	---	75ø	38ø
75ø FD/CO	---	---	---	75ø	38ø
100ø FD/CO	---	---	---	100ø	38ø

PROVIDE ISOLATION VALVES AT ALL FIXTURES



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Project Status

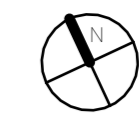
PROJECT No. 21-100
 START DATE October 2021

CITY OF
 PETERBOROUGH
 FIRE STATION NO. 2

100 Marina Boulevard, Peterborough
 ON

PLUMBING LAYOUT -
 UNDERGROUND

M201



ISSUE / REVISIONS

1	Issued for Design Sign-Off	Oct.27.21
2	Issued for Costing	Nov.02.21
3	Issued for Building Permit	Mar.21.22
4	Issued for QA/QC	Apr.14.22
5	Issued for Tender	Jul.07.22

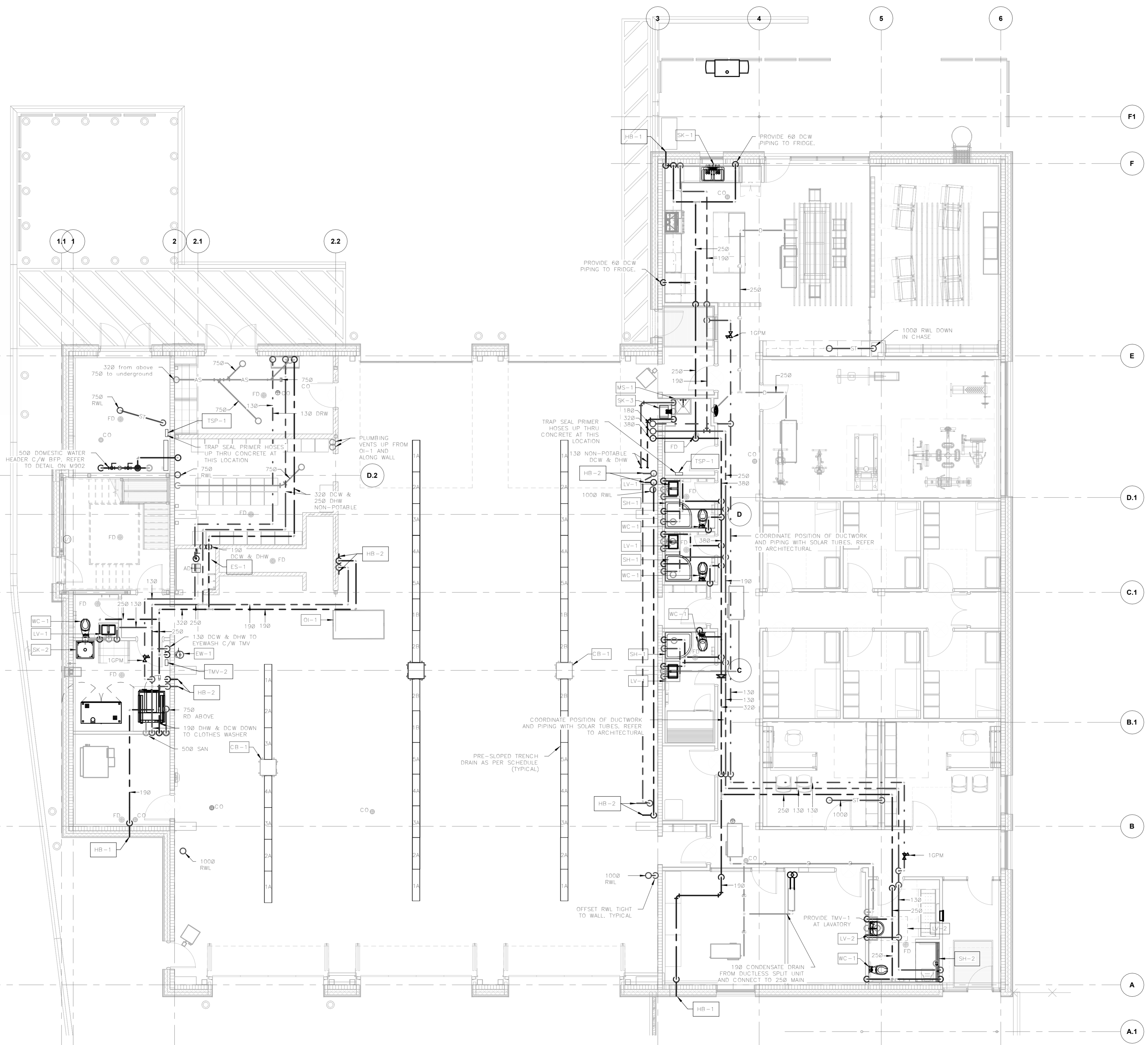
GENERAL NEW PLUMBING NOTES:

1. THE CONTRACTOR SHALL INVESTIGATE AND CONFIRM SERVICES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENGINEER.
2. REFER TO ARCHITECTURAL DRAWINGS AND/OR GENERAL CONTRACTOR FOR CEILING HEIGHTS TO ENSURE ALL SERVICES ARE CONCEALED WITHIN AVAILABLE CEILING SPACE. RUN ALL NEW SERVICES UP IN JOIST SPACE AND BETWEEN LIGHTS AS NOTED OR AS REQUIRED.
3. PREPARE INTERFERENCE DRAWINGS AND COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.
4. COVER ALL FLOOR DRAINS DURING CONSTRUCTION TO PREVENT DEBRIS FROM FALLING IN DRAINS OR GROUT BEING POURED DOWN DRAINS.
5. PROVIDE NEW PLUMBING VENTS THROUGH ROOF AS REQUIRED.
6. ALLOW FOR THE INSULATION AND LABELING OF NEW PIPING WITHIN CEILING SPACE IN AREA OF WORK INCLUDING WATER AND STORM.
7. FIRE STOP ALL NEW PIPING THROUGH RATED WALLS IN AREA OF WORK.
8. THE CONTRACTOR SHALL FLUSH, SCOPE, AND PROVIDE VIDEO INSPECTION OF THE SANITARY SYSTEM AFTER COMPLETION OF WORK AND PRIOR TO SUBSTANTIAL COMPLETION. FLUSHING, SCOPING AND VIDEO SHALL INCLUDE AREA OF WORK TO WHERE IT TIES INTO THE MAIN. SUBMIT REPORT AND VIDEO ON USB.

TYPICAL PLUMBING PIPE SIZING

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WC (FLUSH VALVE)	25ø	---	---	75ø	38ø
LAVATORY	13ø	13ø	---	32ø	32ø
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MOP SINK	13ø	13ø	---	38ø	32ø
CLOTHES WASHER	13ø	13ø	---	50ø	32ø
DISHWASHER	---	13ø	---	TIE INTO SINK	---
EYEWASH	---	---	13ø	32ø	32ø
EYEWASH/SHOWER	---	---	---	32ø	32ø
HOSEBIBB	19ø	---	---	---	---
50ø FD/CO	---	---	---	75ø	38ø
75ø FD/CO	---	---	---	75ø	38ø
100ø FD/CO	---	---	---	100ø	38ø

PROVIDE ISOLATION VALVES AT ALL FIXTURES



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Project Status

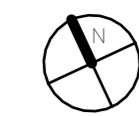
PROJECT No. 21-100
 START DATE October 2021

CITY OF
 PETERBOROUGH
 FIRE STATION NO.2

100 Marina Boulevard, Peterborough
 ON

PLUMBING LAYOUT -
 GROUND LEVEL

M202



ISSUE / REVISIONS

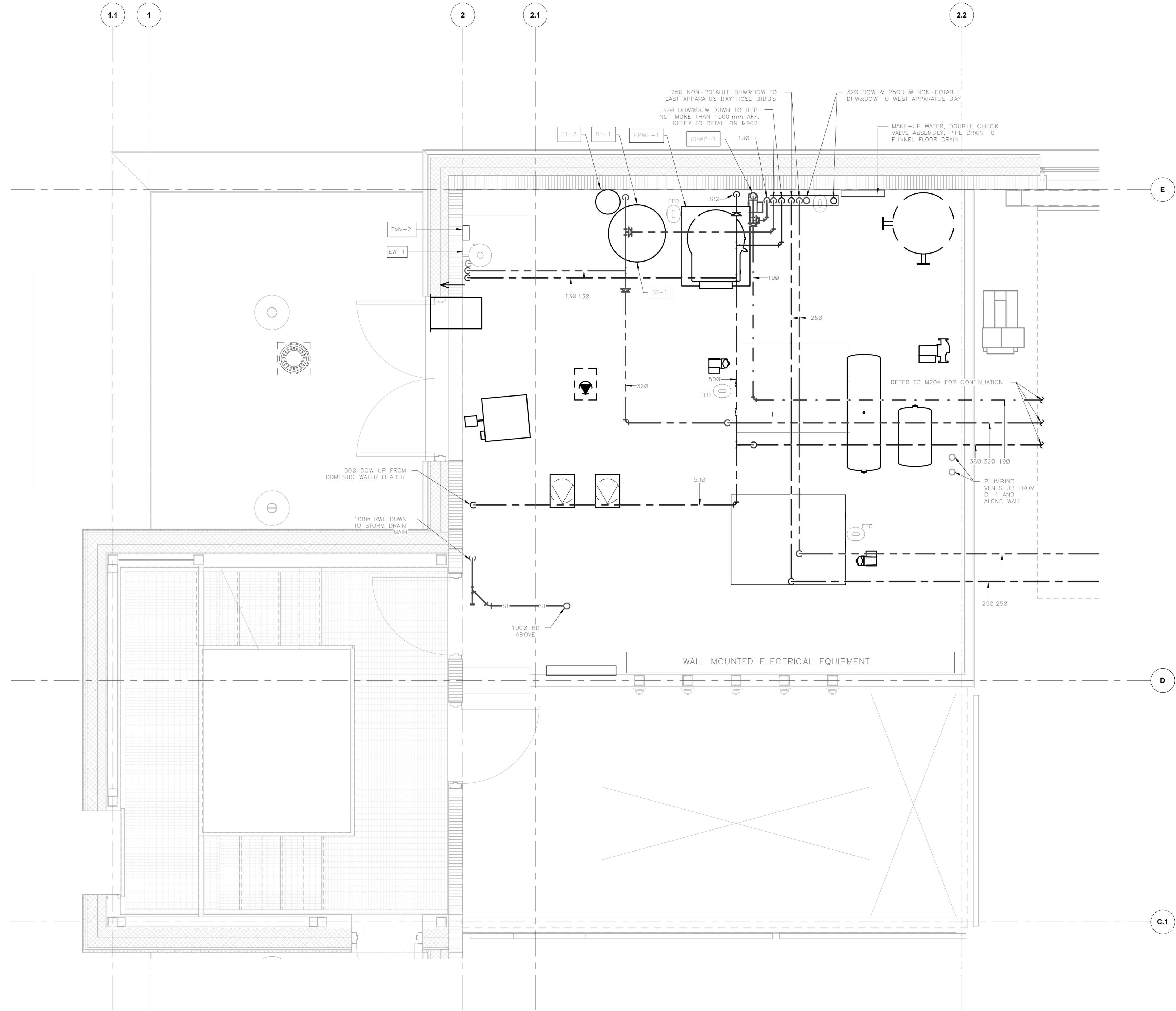
1	Issued for Building Permit	Mar.21.22
2	Issued for QA/QC	Apr.14.22
3	Issued for Tender	Jul.07.22

- GENERAL NEW PLUMBING NOTES:**
1. THE CONTRACTOR SHALL INVESTIGATE AND CONFIRM SERVICES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENGINEER.
 2. REFER TO ARCHITECTURAL DRAWINGS AND/OR GENERAL CONTRACTOR FOR CEILING HEIGHTS TO ENSURE ALL SERVICES ARE CONCEALED WITHIN AVAILABLE CEILING SPACE. RUN ALL NEW SERVICES UP IN JOIST SPACE AND BETWEEN LIGHTS AS NOTED OR AS REQUIRED.
 3. PREPARE INTERFERENCE DRAWINGS AND COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.
 4. COVER ALL FLOOR DRAINS DURING CONSTRUCTION TO PREVENT DEBRIS FROM FALLING IN DRAINS OR GROUT BEING POURED DOWN DRAINS.
 5. PROVIDE NEW PLUMBING VENTS THROUGH ROOF AS REQUIRED .
 6. ALLOW FOR THE INSULATION AND LABELING OF NEW PIPING WITHIN CEILING SPACE IN AREA OF WORK INCLUDING WATER AND STORM.
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TYPICAL PLUMBING PIPE SIZING

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EYEWASH	---	---	13ø	32ø	32ø
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HOSEBIBB	19ø	---	---	---	---
50ø FD/CO	---	---	---	75ø	38ø
75ø FD/CO	---	---	---	75ø	38ø
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PROVIDE ISOLATION VALVES AT ALL FIXTURES



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Project Status

PROJECT No. 21-100
 START DATE October 2021

**CITY OF
 PETERBOROUGH
 FIRE STATION NO.2**

100 Marina Boulevard, Peterborough
 ON
**PLUMBING LAYOUT -
 MEZZANINE**

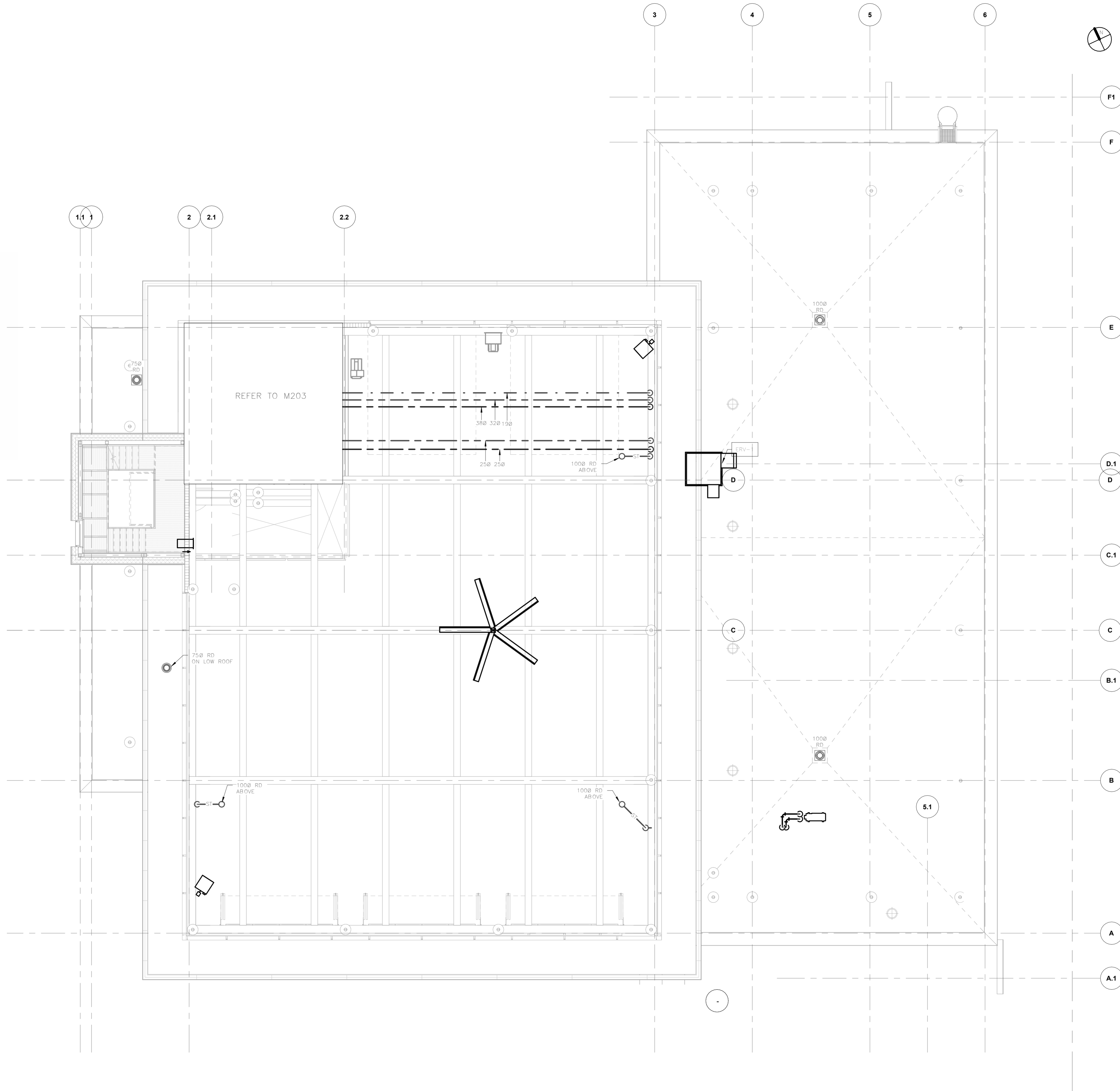
M203

GENERAL NEW PLUMBING NOTES:

1. THE CONTRACTOR SHALL INVESTIGATE AND CONFIRM SERVICES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENGINEER.
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EYEWASH	--	--	13ø	32ø	32ø
EYEWASH/SHOWER	--	--	32ø	38ø	32ø
HOSEBIBB	19ø	--	--	--	--
50ø FD/CO	--	--	--	75ø	38ø
75ø FD/CO	--	--	--	75ø	38ø
100ø FD/CO	--	--	--	100ø	38ø

PROVIDE ISOLATION VALVES AT ALL FIXTURES



ISSUE / REVISIONS

1	Issued for Building Permit	Mar. 21.22
2	Issued for QA/QC	Apr. 14.22
3	Issued for Tender	Jul. 07.22

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Project Status

PROJECT No. 21-100
START DATE October 2021

**CITY OF
PETERBOROUGH
FIRE STATION NO.2**

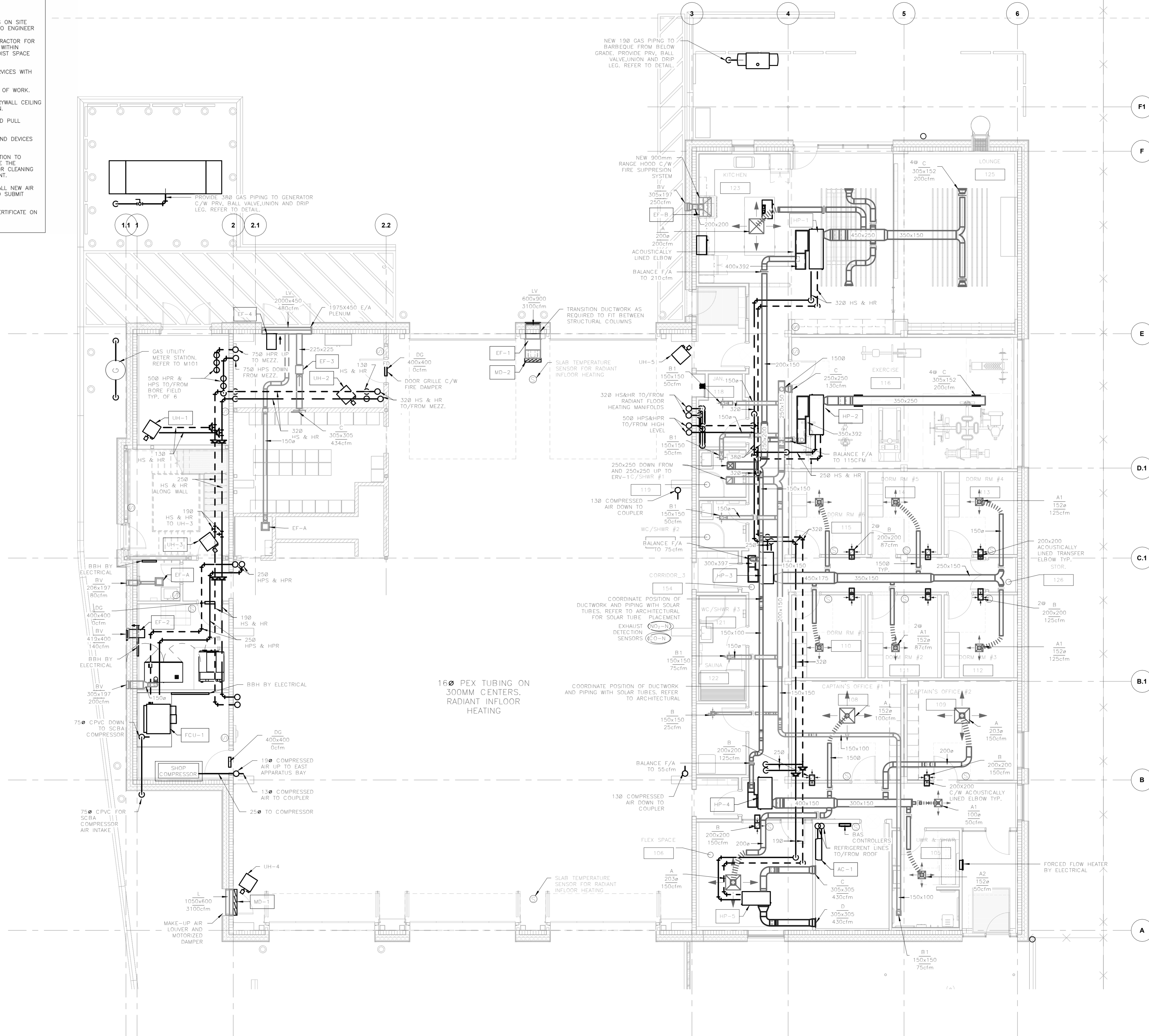
100 Marina Boulevard, Peterborough
ON

**PLUMBING LAYOUT -
APPARATUS BAY**

M204

GENERAL NEW HVAC NOTES:

1. THE CONTRACTOR SHALL INVESTIGATE AND CONFIRM SERVICES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENGINEER
2. REFER TO ARCHITECTURAL DRAWINGS AND/OR GENERAL CONTRACTOR FOR CEILING HEIGHTS TO ENSURE ALL SERVICES ARE CONCEALED WITHIN AVAILABLE CEILING SPACE. RUN ALL NEW SERVICES UP IN JOIST SPACE AND BETWEEN LIGHTS AS NOTED OR AS REQUIRED.
3. PREPARE INTERFERENCE DRAWINGS AND COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.
4. FIRE STOP ALL NEW PIPING THROUGH RATED WALLS IN AREA OF WORK.
5. SUPPLY ACCESS DOORS FOR MECHANICAL DEVICES ABOVE DRYWALL CEILING AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
6. ELECTRICAL CONTRACTOR TO PROVIDE BACK BOX, CONDUIT AND PULL STRING FOR WALL SENSORS. COORDINATE WITH ELECTRICAL.
7. LABEL CEILING GRID AT ACCESS TO MECHANICAL EQUIPMENT AND DEVICES WITH LAMCOOD NAMEPLATE.
8. TEMPORARILY SEAL ALL OPEN DUCTS THROUGHOUT CONSTRUCTION TO PREVENT DUST AND DIRT FROM ENTERING THE SYSTEM. WHERE THE CONTRACTOR DOES NOT CONFORM THEY ARE RESPONSIBLE FOR CLEANING OF THE SYSTEMS IN A MANNER APPROVED BY THE CONSULTANT.
9. PERFORM DUCT LEAKAGE TESTS (SUPPLY AND RETURN) FOR ALL NEW AIR HANDLING SYSTEMS. ARRANGE FOR ENGINEER TO WITNESS AND SUBMIT REPORT.
10. ARRANGE FOR TSSA INSPECTIONS AND APPLICATIONS. POST CERTIFICATE ON WALL.



ISSUE / REVISIONS

1	Issued for Site Plan Approval	Jan.28.22
2	Issued for Building Permit	Mar.21.22
3	Issued for QA/QC	Apr.14.22
4	Issued for Building Permit Response	Apr.25.22
5	Issued for Tender	Jul.07.22

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Project Status

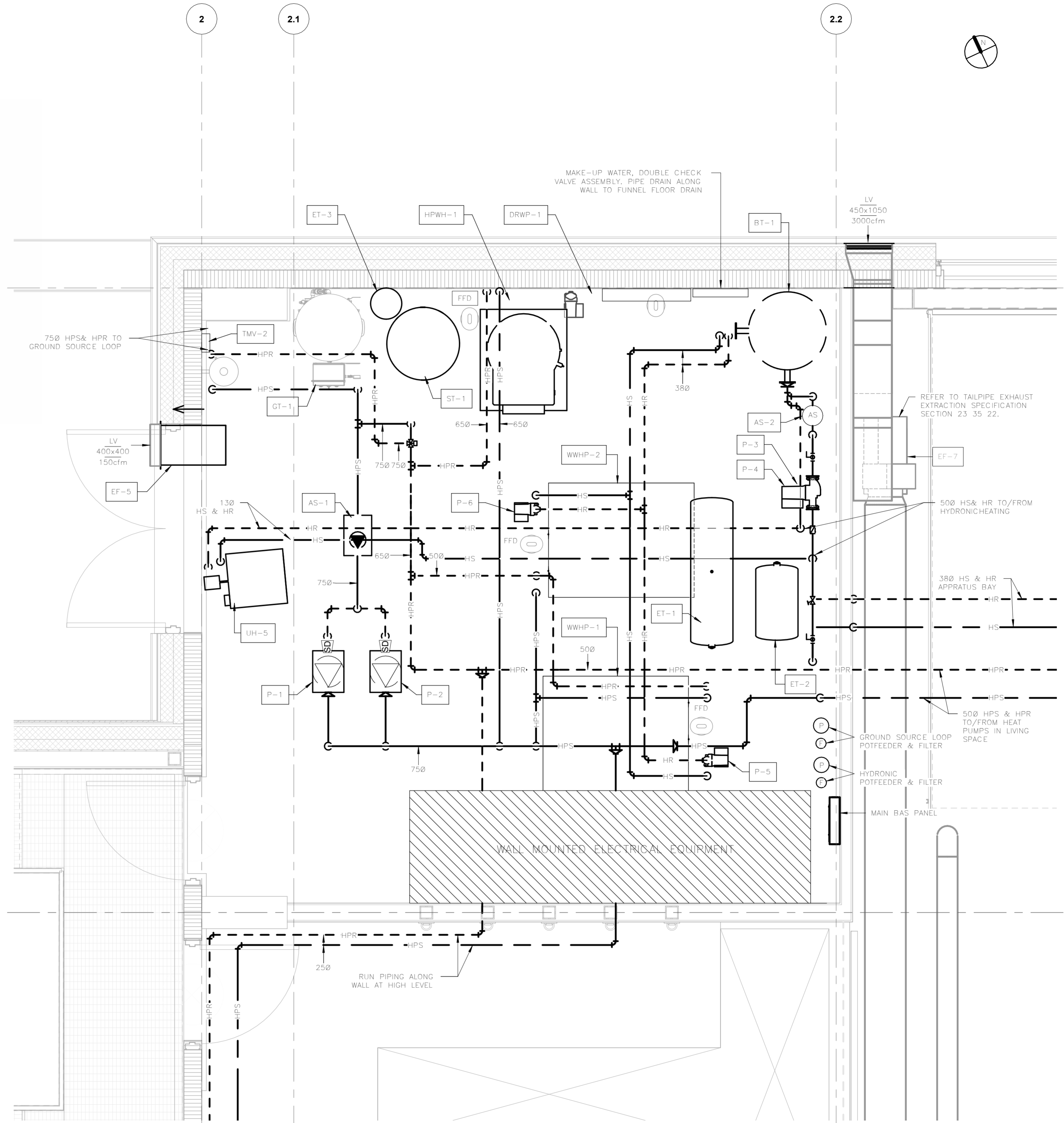
PROJECT No. 21-100
START DATE October 2021

**CITY OF
PETERBOROUGH
FIRE STATION NO.2**

100 Marina Boulevard, Peterborough ON

**HVAC LAYOUT -
GROUND LEVEL**

- GENERAL NEW HVAC NOTES:**
1. THE CONTRACTOR SHALL INVESTIGATE AND CONFIRM SERVICES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENGINEER
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 7. LABEL CEILING GRID AT ACCESS TO MECHANICAL EQUIPMENT AND DEVICES WITH LAMACOID NAMEPLATE.
 8. TEMPORARILY SEAL ALL OPEN DUCTS THROUGHOUT CONSTRUCTION TO PREVENT DUST AND DIRT FROM ENTERING THE SYSTEM. WHERE THE CONTRACTOR DOES NOT CONFORM THEY ARE RESPONSIBLE FOR CLEANING OF THE SYSTEMS IN A MANNER APPROVED BY THE CONSULTANT.
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ISSUE / REVISIONS

1	Issued for Design Sign-Off	Oct.27.21
2	Issued for Costing	Nov.02.21
3	Issued for Building Permit	Mar.21.22
4	Issued for QA/QC	Apr.14.22
5	Issued for Tender	Jul.07.22

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Project Status
PROJECT No. 21-100
START DATE October 2021

CITY OF PETERBOROUGH
FIRE STATION NO.2

100 Marina Boulevard, Peterborough ON
HVAC LAYOUT - MEZZANINE

ISSUE / REVISIONS

1	Issued for Design Sign-Off	Oct.27.21
2	Issued for Costing	Nov.02.21
3	Issued for Building Permit	Mar.21.22
4	Issued for Q/A/O/C	Apr.14.22
5	Issued for Tender	Jul.07.22

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Project Status

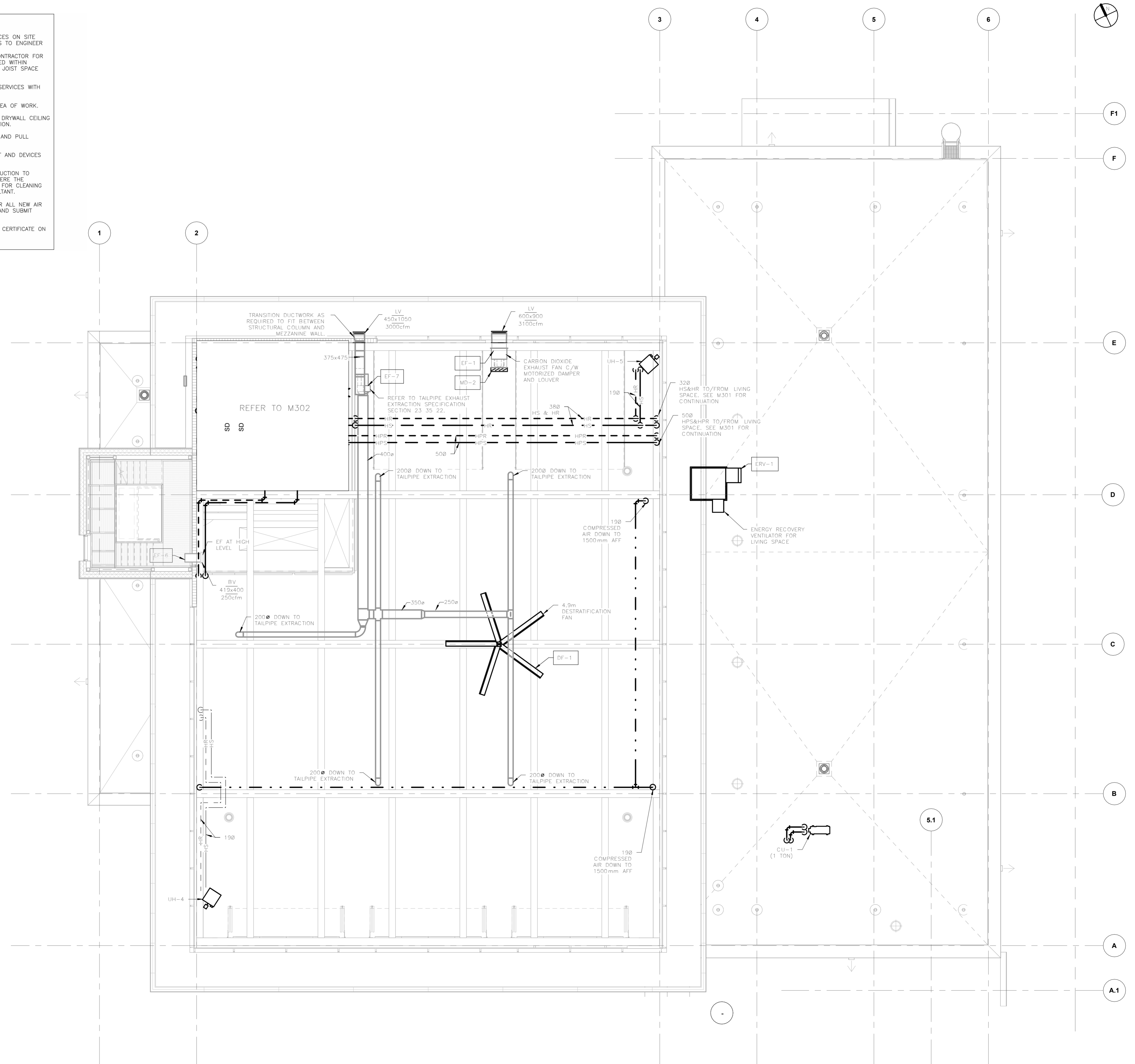
PROJECT No. 21-100
 START DATE October 2021

**CITY OF
 PETERBOROUGH
 FIRE STATION NO.2**

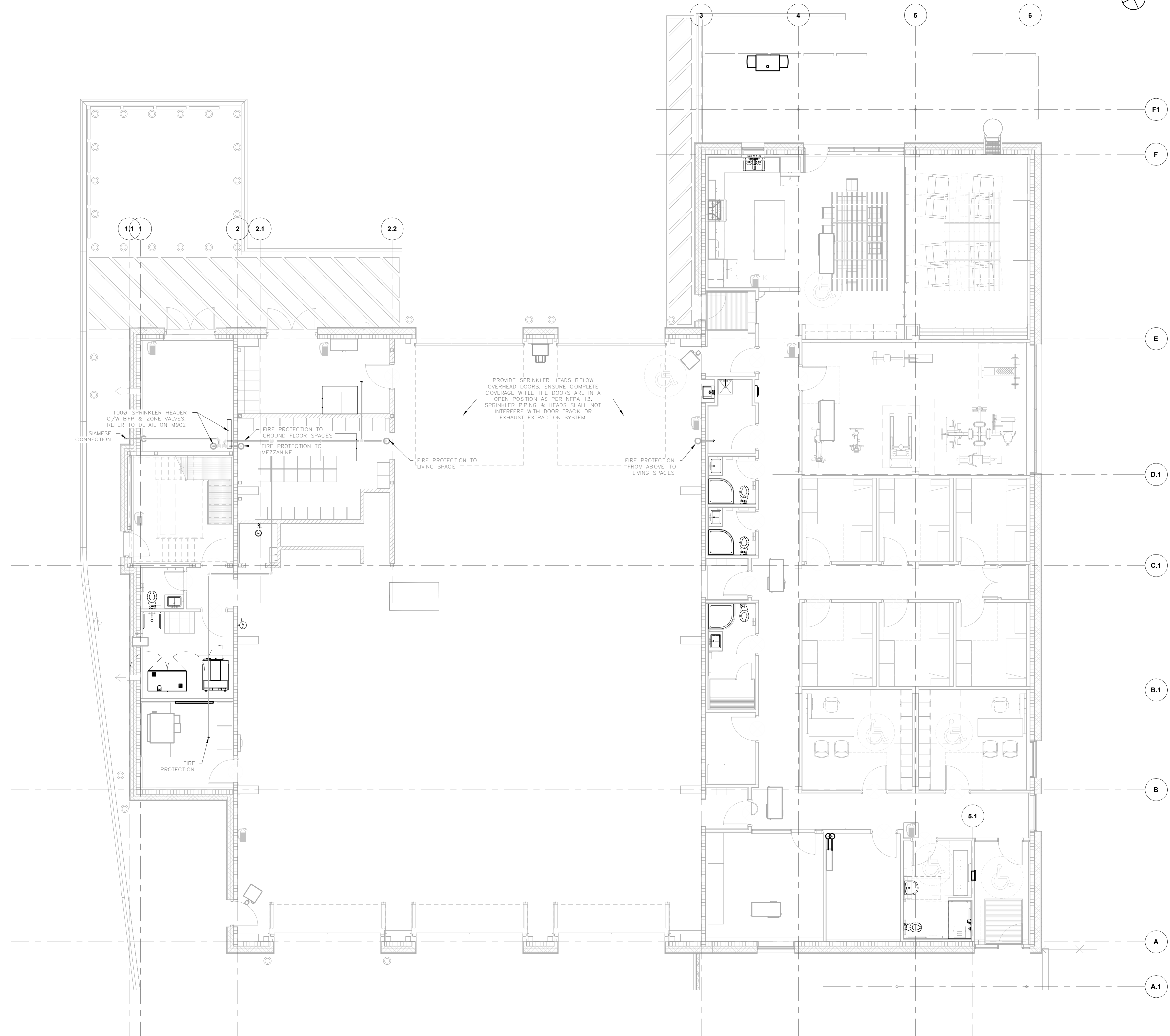
100 Marina Boulevard, Peterborough
 ON
**HVAC LAYOUT -
 APPARATUS BAY**

M303

- GENERAL NEW HVAC NOTES:**
1. THE CONTRACTOR SHALL INVESTIGATE AND CONFIRM SERVICES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO ENGINEER
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 10. ARRANGE FOR TSSA INSPECTIONS AND APPLICATIONS. POST CERTIFICATE ON WALL.



A.1



ISSUE / REVISIONS

1	Issued for Building Permit	Mar. 21.22
2	Issued for QA/QC	Apr. 14.22
3	Issued for Tender	Jul. 07.22

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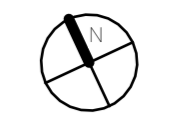
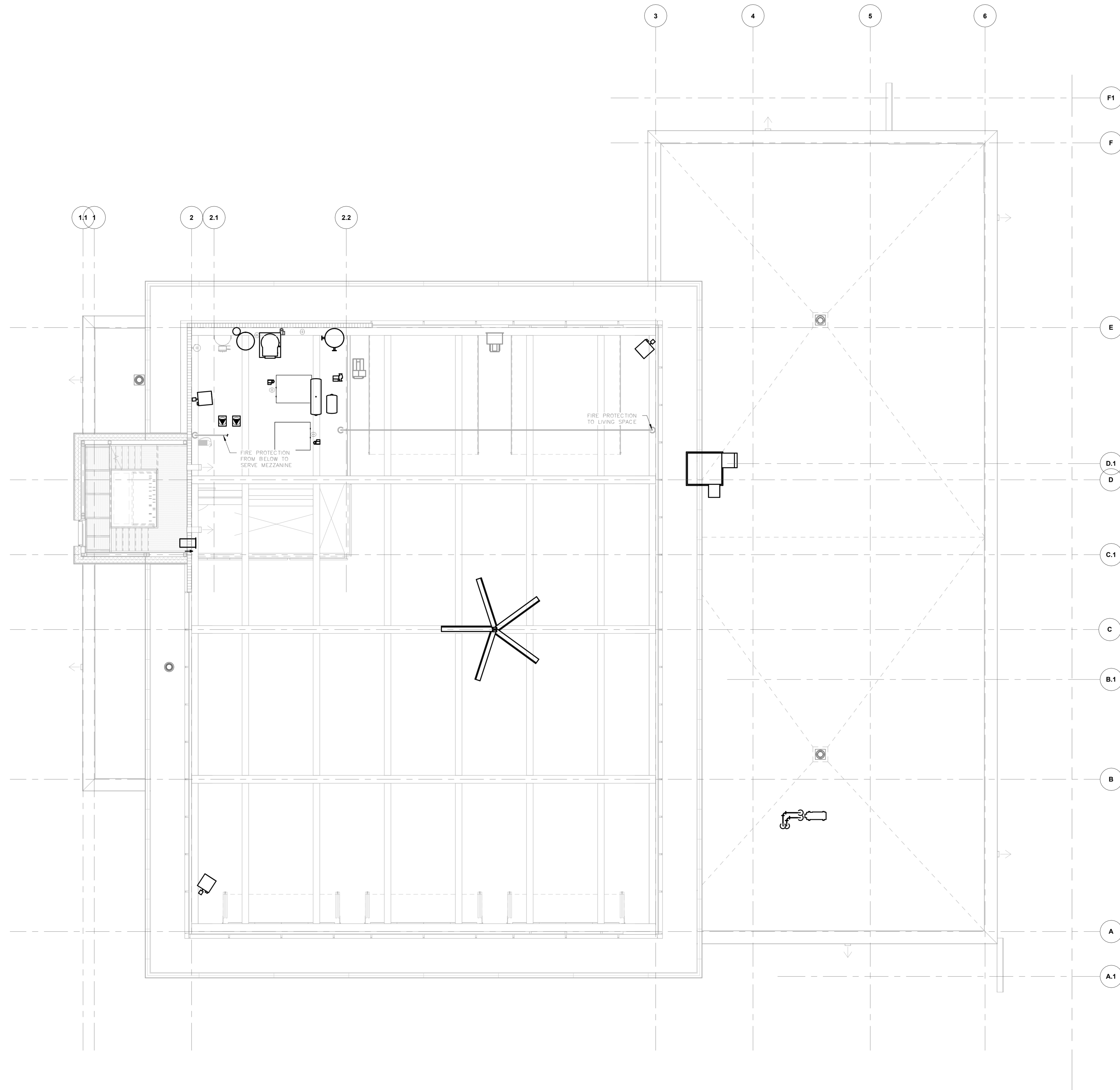
Project Status

PROJECT No. 21-100
START DATE October 2021

**CITY OF
PETERBOROUGH
FIRE STATION NO. 2**

100 Marina Boulevard, Peterborough
ON

**FIRE PROTECTION
LAYOUT - GROUND
LEVEL**



ISSUE / REVISIONS

1	Issued for Building Permit	Mar.21.22
2	Issued for QA/QC	Apr.14.22
3	Issued for Tender	Jul.07.22

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Project Status

PROJECT No. 21-100
START DATE October 2021

**CITY OF
PETERBOROUGH
FIRE STATION NO.2**

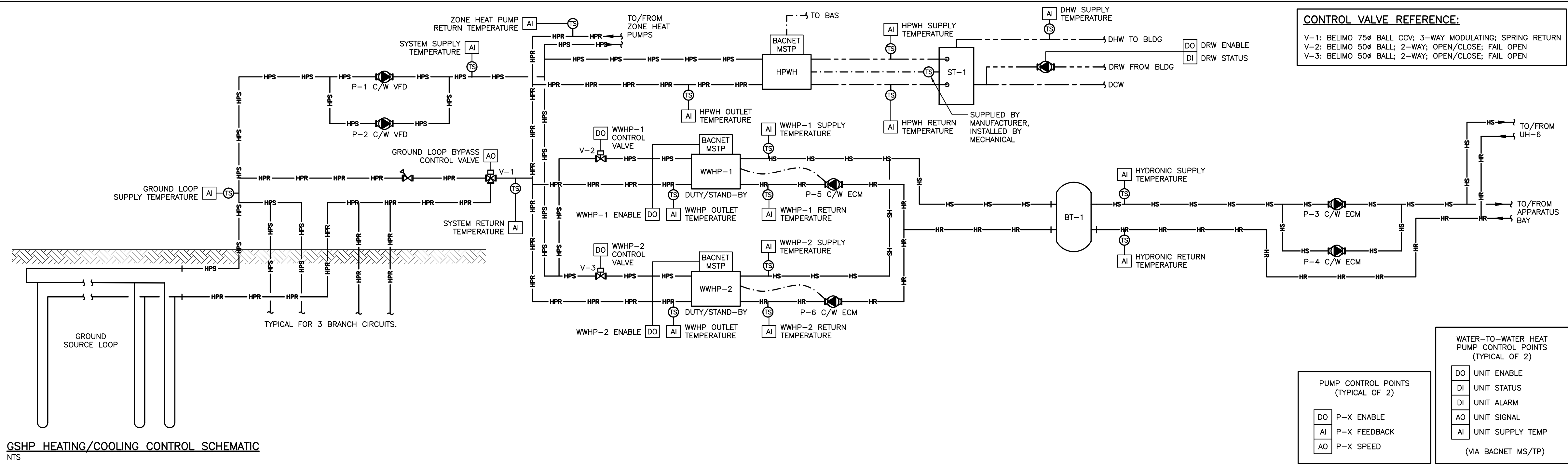
100 Marina Boulevard, Peterborough
ON

**FIRE PROTECTION
LAYOUT - APPARATUS
BAY**

B.A.S. CONTROLS:

- ALL B.A.S. CONTROLS WORK SHALL BE DONE BY A QUALIFIED CONTROLS CONTRACTOR AS A SUB-TRADE TO THE MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR TO PROVIDE TECHNICAL ASSISTANCE AS REQUIRED.
- NEW DIRECT DIGITAL CONTROL SYSTEM SHALL BE MACH SYSTEM BY RELIABLE CONTROLS. OBTAIN THE SERVICES OF A RELIABLE CONTROLS AUTHORIZED DEALER AND INSTALLER FOR ALL B.A.S. CONTROLS WORK.
- WORK SHALL INCLUDE BUT NOT LIMITED TO:
 - PROVIDE NEW SPACE SENSORS TO SUIT NEW CONTROLS AS REQUIRED AND INDICATED ON DRAWINGS.
 - PROVIDE NEW BAS CONTROLLERS AS REQUIRED. PROVIDE NEW COMMUNICATION CONTROL NETWORK.
 - PROVIDE COMPLETE CONTROL OF HEATING AND COOLING WATER SYSTEMS AS PER THE CONTROL SCHEMATIC AND SPECIFICATIONS.
 - PROVIDE COMPLETE CONTROL OF ALL UNIT HEATERS AND RADIANT FLOOR HEATING AS PER THE CONTROL SCHEMATIC AND SPECIFICATIONS.
 - PROVIDE COMPLETE CONTROL OF DAMPERS, FANS AND PUMPS AS PER THE CONTROL SCHEMATIC AND SPECIFICATIONS.
 - PROVIDE CONTROL OF DOMESTIC WATER HEATING EQUIPMENT AND PUMPS AS PER SCHEMATIC.
 - PROVIDE SWITCHES FOR APPARATUS BAY OVERHEAD DOOR POSITION FOR TEMPERATURE SETBACK HEATING DISABLE WHEN DOORS ARE OPEN.
 - PROVIDE BAS CONNECTIONS AND POINTS FOR GAS DETECTION SYSTEM AS PER SCHEMATICS.
 - PROVIDE I/O POINTS BETWEEN BAS AND BACNET CONTROLLERS PROVIDED BY HEAT PUMP MANUFACTURERS. COORDINATE WITH SAME.
- COORDINATE ALL SEQUENCES OF OPERATION AND ALARMING WITH COP REPRESENTATIVE. CONTROLS CONTRACTOR SHALL COMPLY WITH ALL COP CONTROLS STANDARDS. COORDINATE FINAL UNIT TAGGING WITH EXISTING NAMING CONVENTION ON SITE TO ENSURE NO DUPLICATION.
- PROVIDE CONTROL SHOP DRAWINGS C/W ALL CONTROL COMPONENTS, SCHEMATICS, SEQUENCES, AND WIRING DETAILS.
- PROVIDE ONE(1) YEAR WARRANTY ON ALL CONTROLS MATERIAL AND LABOUR.
- SUPPLY AND TURN OVER VALVES FOR AFOREMENTIONED CONTROLS TO MECHANICAL CONTRACTOR FOR INSTALLATION.
- PROVIDE AS-BUILT CONTROL DRAWINGS FOR INCLUSION IN O&M MANUALS.
- REFER TO SPECIFICATIONS.

GSHP HEATING/COOLING CONTROL SCHEMATIC
NTS



CONTROL VALVE REFERENCE:

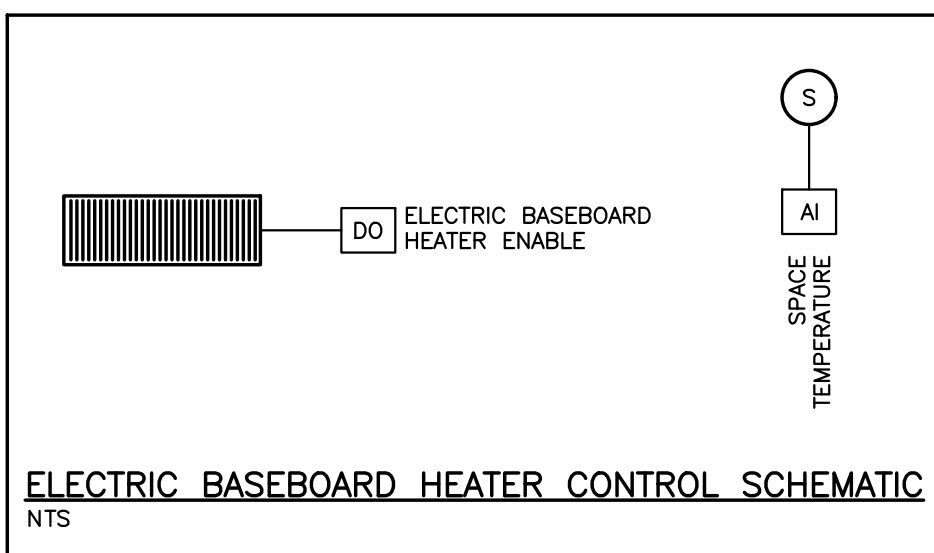
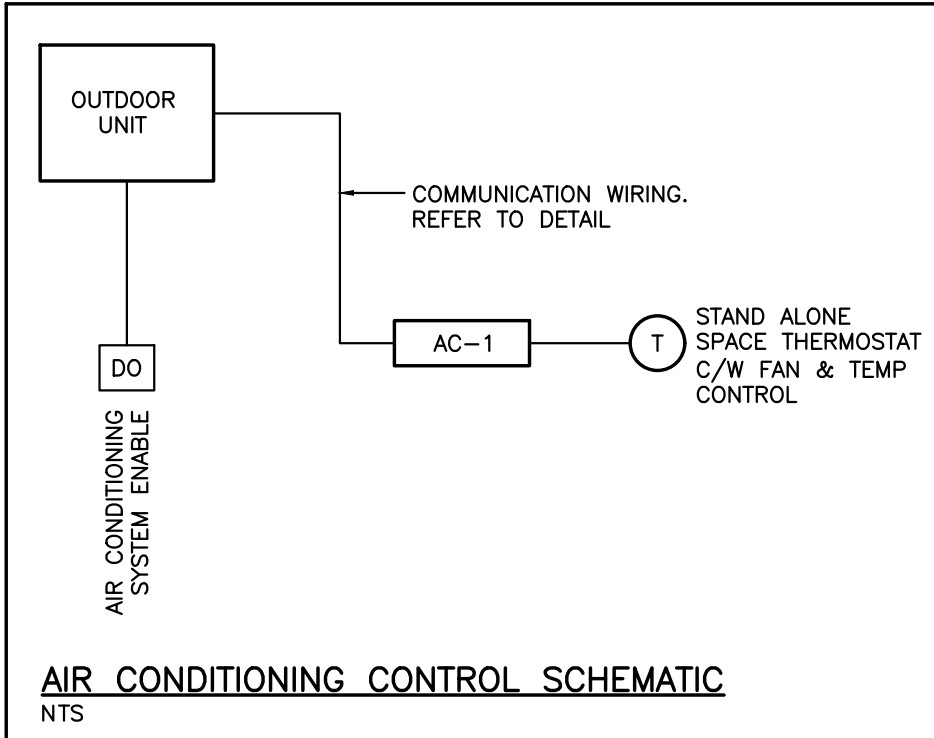
V-1: BELIMO 75# BALL CVV; 3-WAY MODULATING; SPRING RETURN
 V-2: BELIMO 50# BALL; 2-WAY; OPEN/CLOSE; FAIL OPEN
 V-3: BELIMO 50# BALL; 2-WAY; OPEN/CLOSE; FAIL OPEN

PUMP CONTROL POINTS (TYPICAL OF 2)

DO UNIT ENABLE
 DI UNIT STATUS
 DI UNIT ALARM
 AO UNIT SIGNAL
 AI UNIT SUPPLY TEMP
 (VIA BACNET MS/TP)

WATER-TO-WATER HEAT PUMP CONTROL POINTS (TYPICAL OF 2)

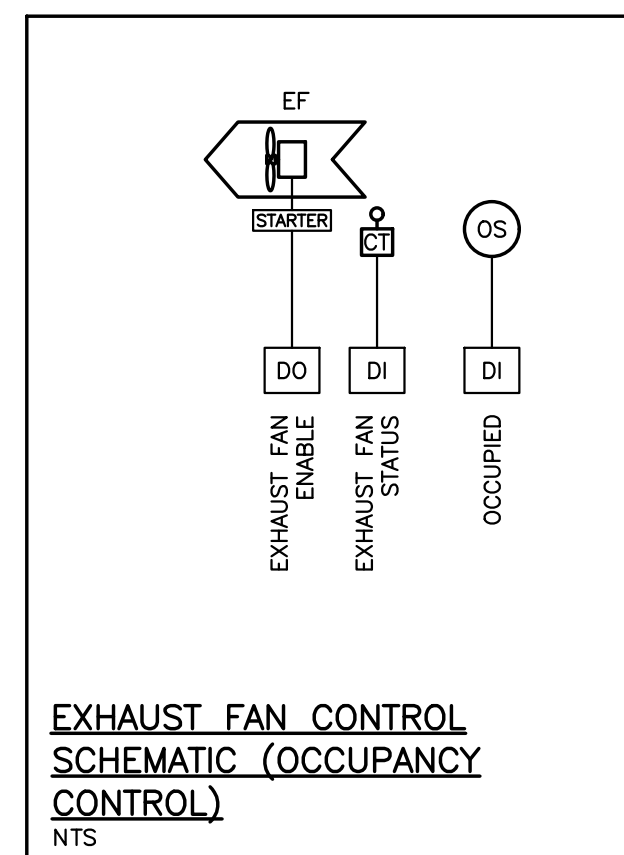
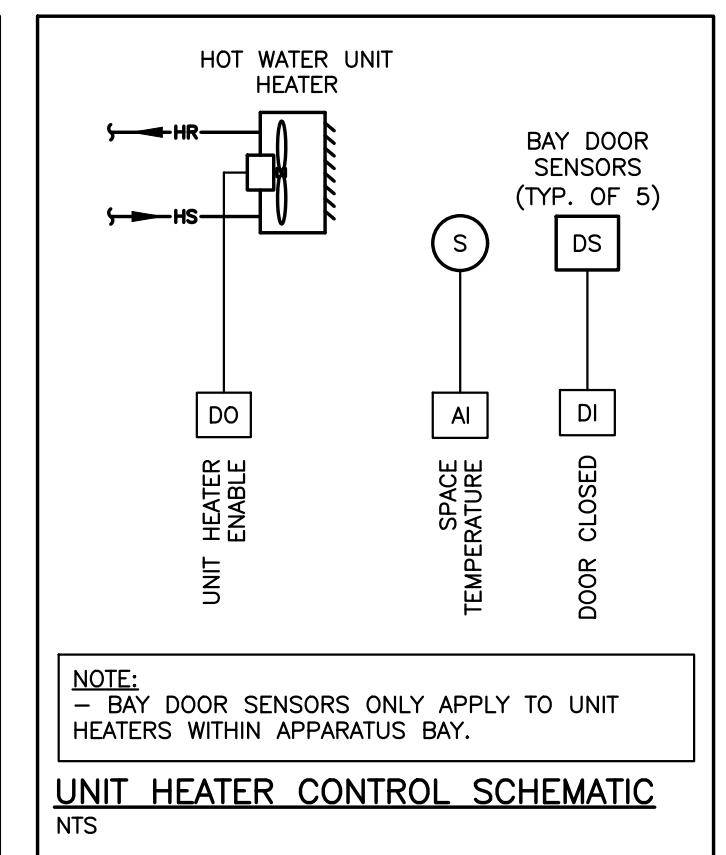
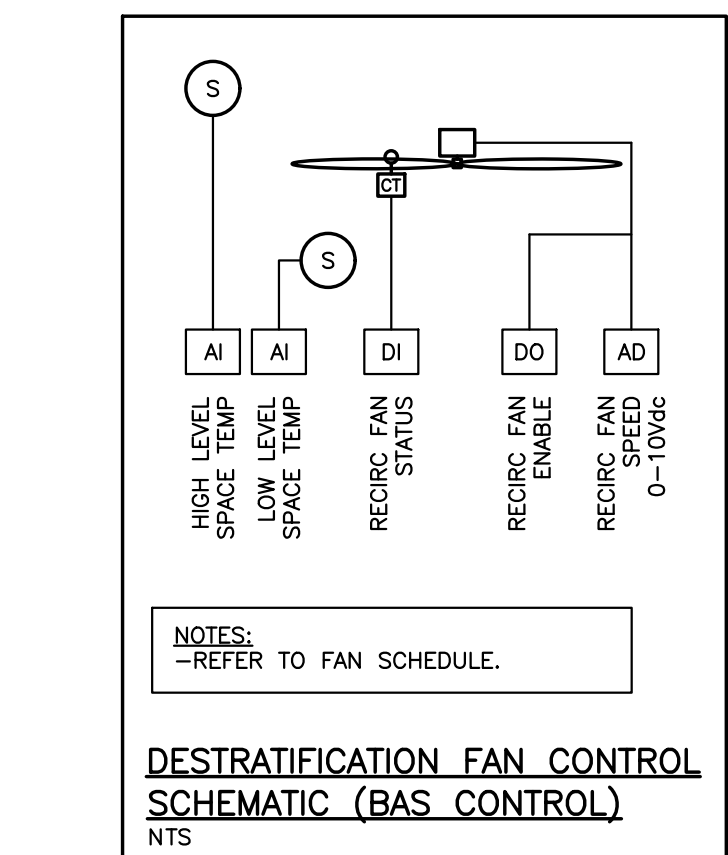
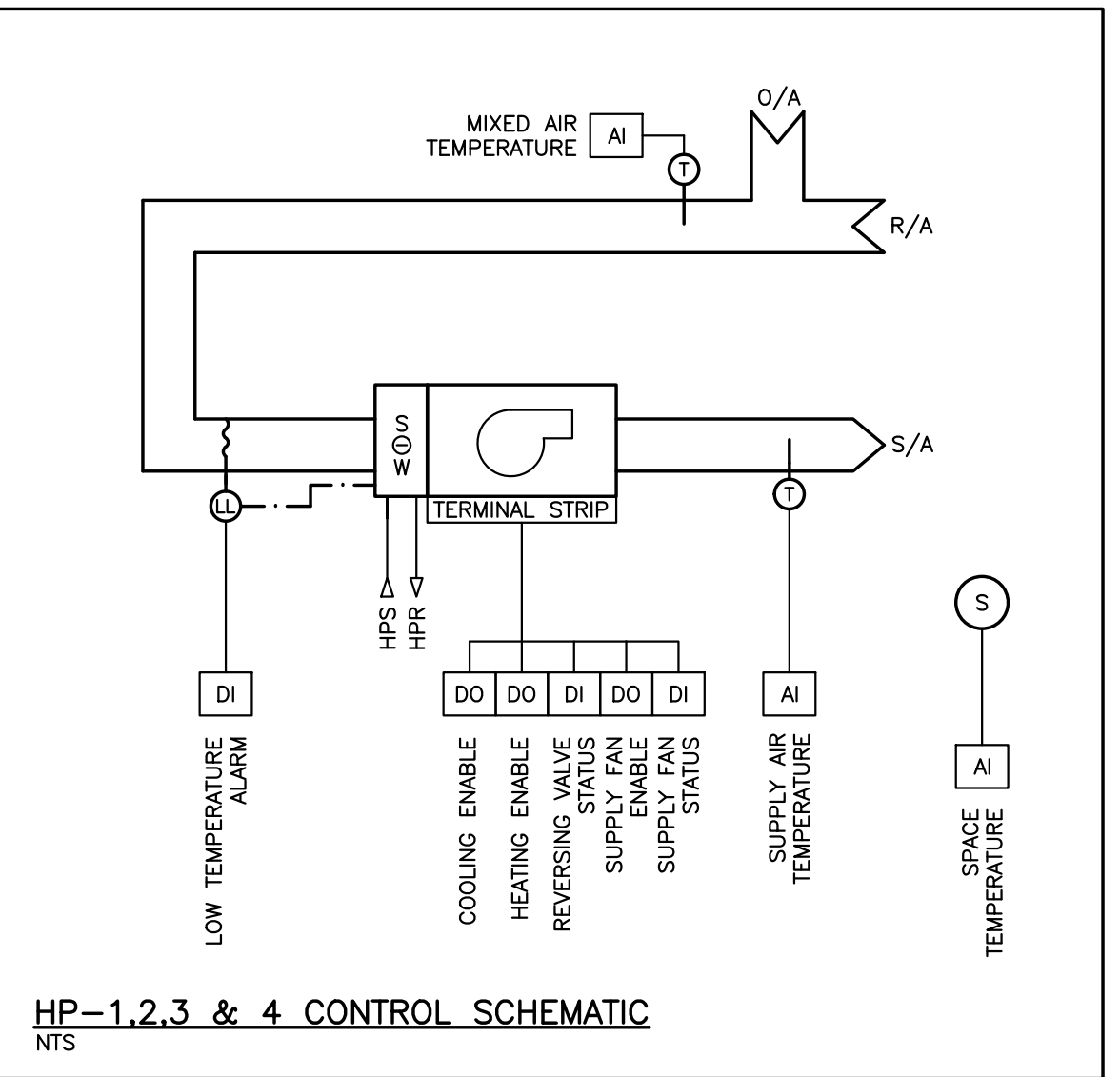
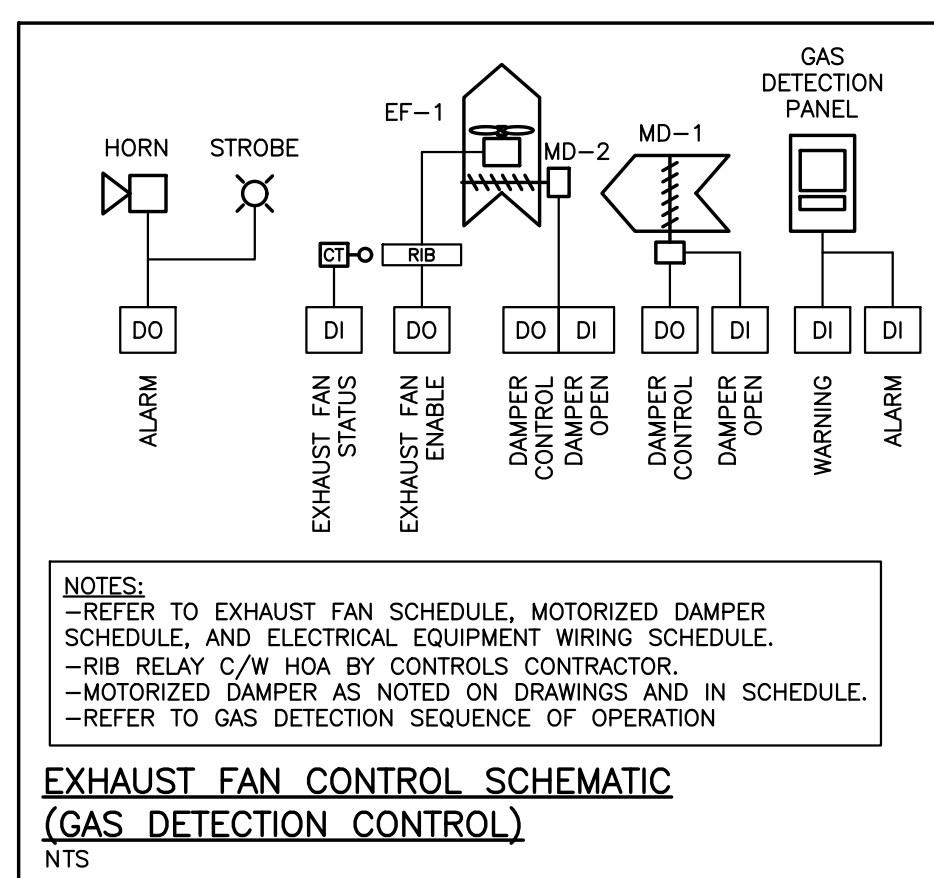
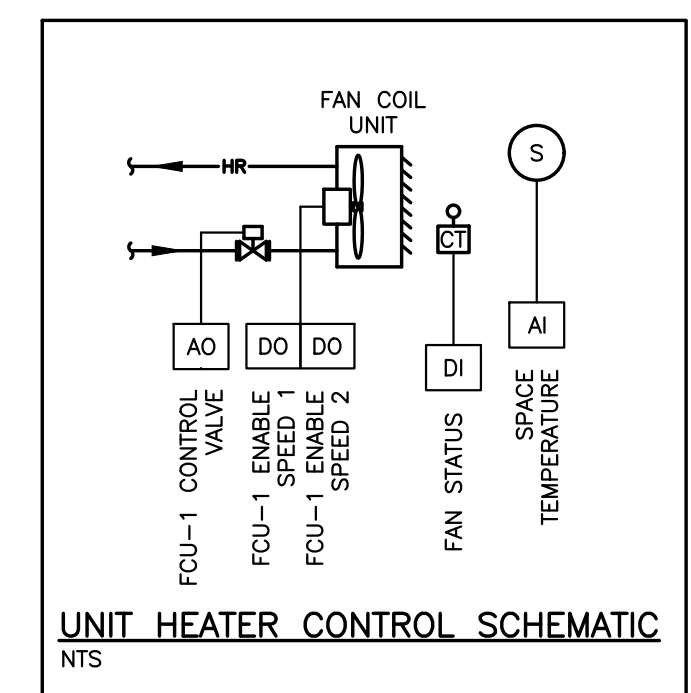
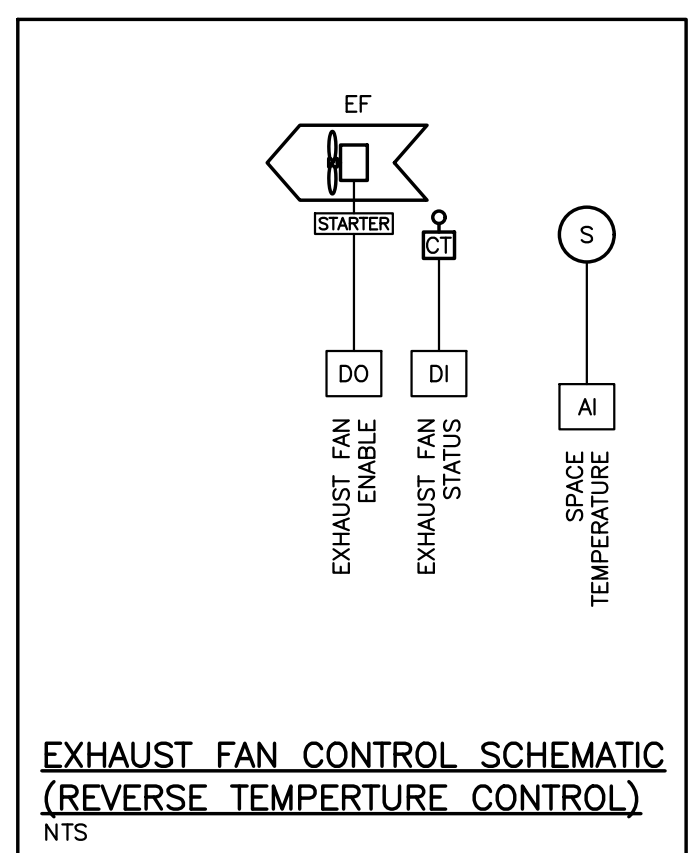
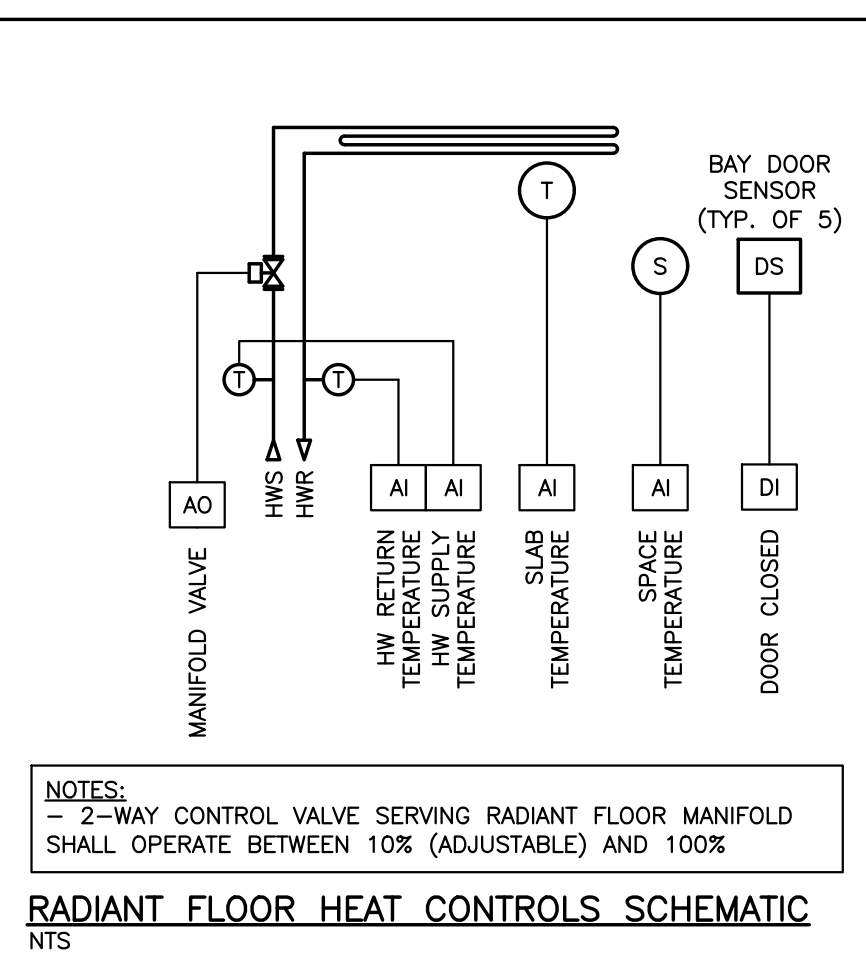
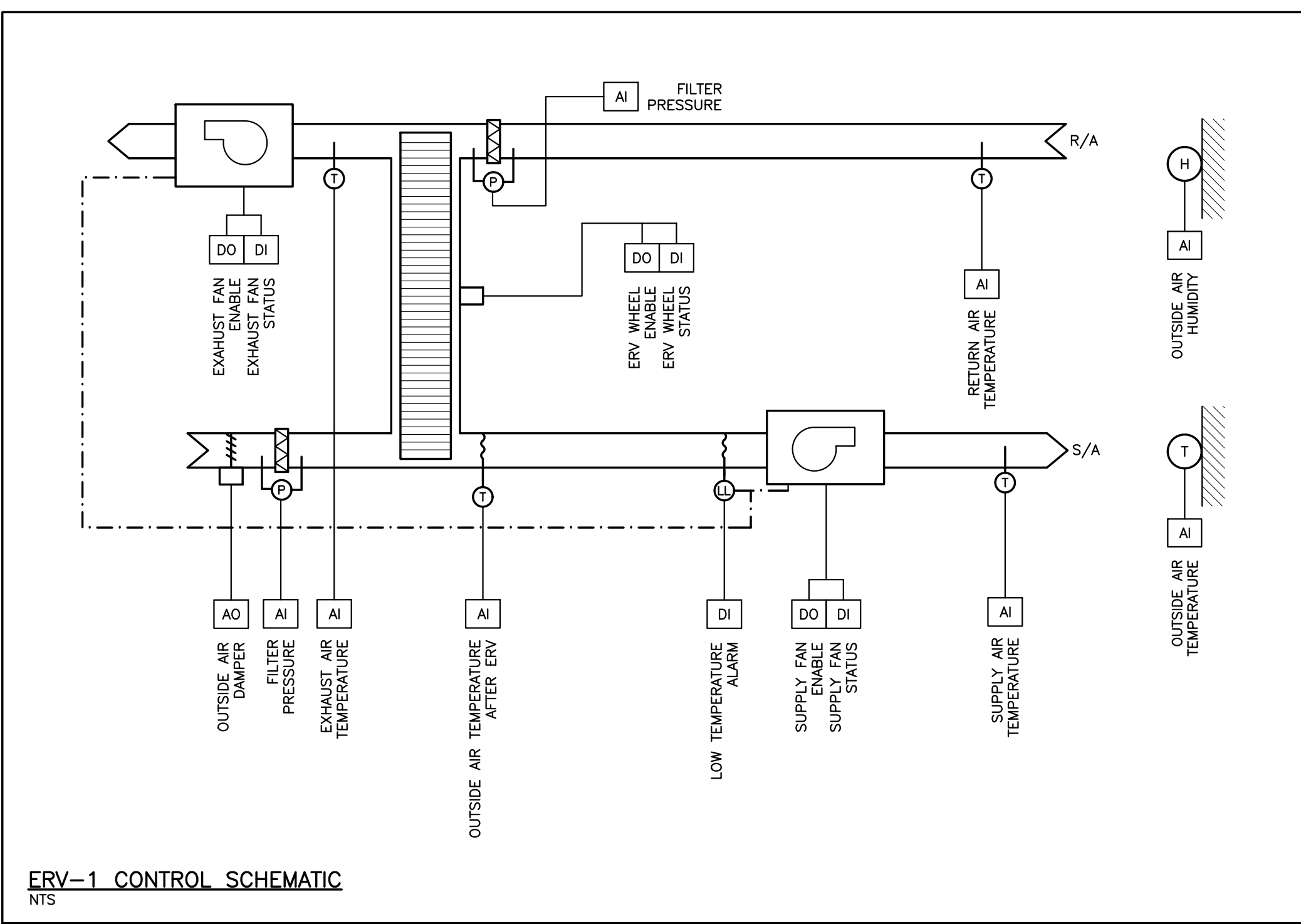
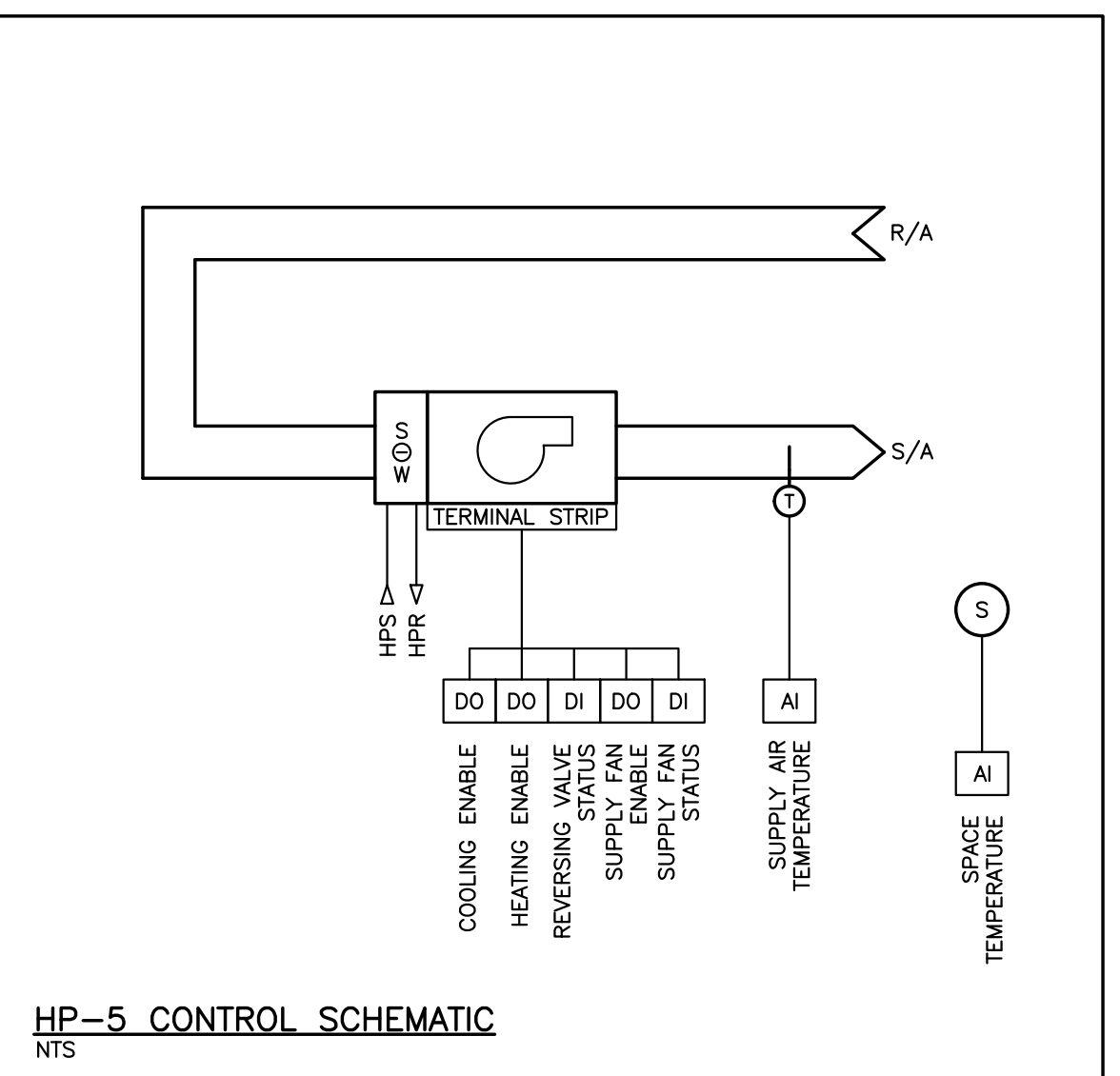
DO UNIT ENABLE
 DI UNIT STATUS
 DI UNIT ALARM
 AO UNIT SIGNAL
 AI UNIT SUPPLY TEMP
 (VIA BACNET MS/TP)



CO/NO2 DETECTION LEGEND

SYMBOL	DESCRIPTION	LOCATION	MANUFACTURER	MODEL NUMBER	INSTALLATION INFORMATION
CO-N	CARBON MONOXIDE SENSOR - NETWORK TYPE	AUTO SHOP	HONEYWELL ANALYTICS	E3POINT MODBUS E3SM500	MOUNT 1.0-1.5m (3'-5') ABOVE FINISHED FLOOR
NO2-N	NITROGEN DIOXIDE SENSOR - NETWORK TYPE	AUTO SHOP	HONEYWELL ANALYTICS	E3POINT MODBUS E3SM + E3NO2	MOUNT 0.3-1.0m (1'-3') BELOW CEILING
MC	MASTER CONTROLLER C/W DISPLAY, DATA LOGGER, ADDITIONAL 8 RELAY OUTPUT MODULE, AND HORN/STROBE ASSEMBLY (SEE BELOW)	AUTO SHOP	HONEYWELL ANALYTICS	VA301C-DLC + VA301R8	MOUNT 1.2-1.5m (4'-5') ABOVE FINISHED FLOOR
	HORN/STROBE ASSEMBLY FOR MASTER CONTROLLER	AUTO SHOP	EDWARDS SIGNALLING	101BS-G1 + 101FLEDR-G1	MOUNT DIRECTLY TO MASTER CONTROLLER HOUSING
	ALTERNATE MANUFACTURER		QEL		

- GAS DETECTION SEQUENCE OF OPERATION:**
- THE GAS DETECTION SYSTEM SHALL MONITOR FOR THE PRESENCE OF CARBON MONOXIDE (CO) AND NITROGEN DIOXIDE (NO2) WITHIN THE APPARATUS BAY. THE GAS DETECTION SYSTEM SHALL BE CONNECTED TO THE BUILDING AUTOMATION SYSTEM TO ENABLE ET-1 UPON THE DETECTION OF GAS CONCENTRATIONS EXCEEDING THE SPECIFIED LIMITS.
 - INDIVIDUAL GAS DETECTORS SHALL BE TIED INTO THE MAIN GAS DETECTION CONTROLLER. RELAY OUTPUTS FROM THE MAIN GAS DETECTION CONTROLLER SHALL BE TIED INTO THE BAS.
 - UPON THE DETECTION OF CO EXCEEDING 25ppm (ADJ.) OR NO2 EXCEEDING 0.7ppm (ADJ.) FOR 15 MINUTES (ADJ.), THE RESPECTIVE EXHAUST FAN SHALL BE ENABLED. THESE LEVELS SHALL BE KNOWN AS THE WARNING LEVELS. THE EXHAUST FAN SHALL BE ENABLED ONCE THE MOTORIZED DAMPER IS PROVEN OPEN.
 - THE EXHAUST FAN SHALL CONTINUE TO RUN UNTIL THE GAS CONCENTRATION LEVEL DROPS BELOW THE WARNING LEVEL OR FOR A MINIMUM OF 15 MINUTES (ADJ.).
 - UPON THE DETECTION OF CO EXCEEDING 100ppm (ADJ.) OR NO2 EXCEEDING 2ppm (ADJ.) THE STROBE AND AUDIBLE ALARM SHALL BE ENABLED. THESE LEVELS SHALL BE KNOWN AS THE ALARM LEVELS. THERE SHALL BE NO TIME DELAY ASSOCIATED WITH REACHING THE ALARM CONCENTRATION LEVEL. THE EXHAUST FAN SHALL BE ENABLED TO RUN ONCE THE MOTORIZED DAMPER IS PROVEN OPEN.
 - THE MECHANICAL CONTRACTOR AND MANUFACTURER'S REPRESENTATIVE SHALL INCLUDE FOR TWO (2) ADDITIONAL ON-SITE VISITS TO ADJUST PROGRAMMING/SEQUENCING OF GAS DETECTION EQUIPMENT FOLLOWING OCCUPANCY OF THE FACILITY BY THE OWNER.



ISSUE / REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	Mar 21 22
2	ISSUED FOR QA/QC	Apr 14 22
3	ISSUED FOR TENDER	Jul 07 22

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Project Status
 PROJECT No. 21-100
 START DATE OCT. 21

City of Peterborough
FIRE STATION NO. 2

100 Marina Boulevard, Peterborough, ON
 Drawing Title:

CONTROLS

Drawing No.:

M501

ARCH-D 24" x 36" Project Management Initials: BFT Drawn By: MRC

HOT WATER UNIT HEATER SCHEDULE
Table with columns: TAG, SERVICE, MANUFACTURER, MODEL, HEATING CAPACITY, AIR FLOW, MOTOR, FLUID, EWT/LWT, EAT/LAT, WATER FLOW, WATER PRESSURE DROP, WATER CONNECTION, ELECTRICAL, AMPS, WEIGHT, MAX MOUNTING HEIGHT, CONTROLS, ACCESSORIES, ALTERNATE MANUFACTURERS.

VRV AIR CONDITIONING UNIT SCHEDULE
Table with columns: TAG, SERVICE, MANUFACTURER, MODEL, REFRIGERANT, INDOOR COOLING CONDITIONS (DB/WB), OUTDOOR COOLING CONDITIONS (DB/WB), INDOOR HEATING CONDITIONS (DB/WB), OUTDOOR HEATING CONDITIONS (DB/WB), RATED PIPING LENGTH, COOLING CAPACITY, HEATING CAPACITY, AIR FLOW, EXTERNAL STATIC PRESSURE, GAS PIPE CONNECTION, LIQUID PIPE CONNECTION, CONDENSATE CONNECTION, ELECTRICAL, MCA, MOCP, SOUND PRESSURE LEVEL, UNIT DIMENSIONS, APPROX. WEIGHT, NOTES, CONTROLS, ACCESSORIES, ALTERNATE MANUFACTURERS.

VRV CONDENSING UNIT SCHEDULE
Table with columns: TAG, SERVICE, MANUFACTURER, MODEL, REFRIGERANT, INDOOR COOLING CONDITIONS (DB/WB), OUTDOOR COOLING CONDITIONS (DB/WB), INDOOR HEATING CONDITIONS (DB/WB), OUTDOOR HEATING CONDITIONS (DB/WB), RATED PIPING LENGTH, RATED COOLING CAPACITY, COOLING SEER, RATED HEATING CAPACITY, HEATING COP, AIRFLOW RATE, GAS PIPE CONNECTION, LIQUID PIPE CONNECTION, MCA, MOCP, SOUND PRESSURE LEVEL, UNIT DIMENSIONS, APPROX. WEIGHT, MAX TOTAL PIPE LENGTH, MAX VERTICAL PIPE LENGTH, NOTES, CONTROLS, ACCESSORIES, ALTERNATE MANUFACTURERS.

EXHAUST FAN SCHEDULE
Table with columns: TAG, SERVICE, TYPE, MANUFACTURER, MODEL, AIR FLOW, STATIC, SONES, FAN RPM, FAN MOTOR, FAN TYPE, ELECTRICAL, FLA, DIMENSIONS, WEIGHT, CONTROLS, ACCESSORIES/FEATURES, ALTERNATE MANUFACTURERS.

STORAGE TANK SCHEDULE
Table with columns: TAG, SERVICE, TYPE, MANUFACTURER, MODEL, CAPACITY, WORKING PRESSURE, PIPE CONNECTION, ALTERNATES.

BUFFER TANK SCHEDULE
Table with columns: TAG, SERVICE, TYPE, MANUFACTURER, MODEL, CAPACITY, WORKING PRESSURE, DIMENSIONS, SHIPPING WEIGHT, PIPE CONNECTION, NOTES, ALTERNATE MANUFACTURERS.

VFD SCHEDULE
Table with columns: TAG, MANUFACTURER, ELECTRICAL, MOTOR, DISCONNECT, BYPASS, ALTERNATE MANUFACTURERS.

WATER-TO-AIR HEAT PUMP SCHEDULE
Table with columns: TAG, SERVICE, MANUFACTURER, MODEL, REFRIGERANT, COOLING, SENSIBLE CAPACITY, EAT (DB/WB), EWT/LWT, TOTAL CAPACITY, THR, FLOW RATE, EER (DESIGN), HEATING, FLUID, EAT (DB), CAPACITY, EWT/LWT, COP, PRESSURE DROP, AIR FLOW, ESP, WATER CONNECTIONS, ELECTRICAL, TOTAL UNIT FLA, MCA, MOCP, DIMENSIONS, SHIPPING WEIGHT, ACCESSORIES, CONTROLS, NOTES, ALTERNATE MANUFACTURERS.

EXPANSION TANK SCHEDULE
Table with columns: TAG, SERVICE, ORIENTATION, TYPE, MANUFACTURER, MODEL, TOTAL VOLUME, MAX. ACCEPTANCE VOLUME, DIAMETER, HEIGHT/LENGTH, SYSTEM CONNECTIONS, FACTORY PRE-CHARGE, WORKING PRESSURE, SHIPPING WEIGHT, ACCESSORIES, ALTERNATE MANUFACTURERS.

GLYCOL TANK SCHEDULE
Table with columns: TAG, SERVICE, MANUFACTURER, MODEL, TOTAL VOLUME, MAKE-UP CAPACITY, MOTOR, VOLTAGE, PRESSURE RANGE, DIAMETER, HEIGHT, WEIGHT, ACCESSORIES, ALTERNATE MANUFACTURERS.

PUMP SCHEDULE
Table with columns: TAG, SERVICE, TYPE, MANUFACTURER, MODEL, MAKE-UP CAPACITY, SERIES, FLUID, FLOW, PRESSURE LOSS, EFFICIENCY AT DUTY PT., SUCTION SIZE, DISCHARGE SIZE, MOTOR, RPM, ELECTRICAL, APPROX. WEIGHT, NOTES, ALTERNATE MANUFACTURERS.

WATER-TO-WATER HEAT PUMP SCHEDULE
Table with columns: TAG, SERVICE, MANUFACTURER, MODEL, REFRIGERANT, CAPACITY, SOURCE SIDE, FLOW RATE, EWT/LWT, FLUID, PRESSURE DROP, SYSTEM SIDE, FLOW RATE, EWT/LWT, FLUID, PRESSURE DROP, ELECTRICAL, MCA, MOCP, DIMENSIONS, WEIGHT, NOTES, ALTERNATE MANUFACTURERS.

OIL INTERCEPTOR SCHEDULE
Table with columns: TAG, SERVICE, LOCATION, MANUFACTURER, MODEL, FLOW RATE, CAPACITY, INLET/OUTLET SIZE, DIMENSIONS, NOTES, ALTERNATE MANUFACTURERS.

ISSUE / REVISIONS

Table with columns: Issue/Revision Number, Description, Date.
1 ISSUED FOR PERMIT Mar 21 22
2 ISSUED FOR Q/ACC Apr 14 22
3 ISSUED FOR TENDER Jul 07 22

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Project Status

PROJECT No. 21-100
START DATE OCT. 21

City of Peterborough
FIRE STATION NO. 2

100 Marina Boulevard, Peterborough, ON
Drawing Title:

SCHEDULES

Drawing No.:

M802

AIR OUTLET SCHEDULE										
TAG	A	A1	A2	B	B1	C	D	DG	BV	L
TYPE	SQUARE CONE DIFFUSER	SQUARE CONE DIFFUSER	SQUARE CONE DIFFUSER	EGG GRATE RETURN	EGG GRATE RETURN	LOUVERED FACE SUPPLY	LOUVERED FACE RETURN	STEEL DOOR GRILLE	BRICK VENT	LOUVER
MANUFACTURER	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	GREENHECK	PRICE
MODEL	SCD-31-3C	SCD-31-3C	ASCD-31-3C	80	80(DAL)	520D-F-L-A	535(D)-F-L-A	STG1-BF	BVE	DE436
SIZE	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS
COLOUR	B12	B12	B12	B12	B12	B12	B12	COORD WITH ARCH	COORD WITH ARCH	COORD WITH ARCH
NOTES	-24x24 CEILING MODULE FOR T-BAR MOUNTING	-12x12 CEILING MODULE FOR T-BAR MOUNTING -C/W BORDER (F) AND SCREWS FOR DRYWALL MOUNTING	-ALUMINUM -12x12 CEILING MODULE FOR T-BAR MOUNTING -C/W BORDER (F) AND SCREWS FOR DRYWALL MOUNTING	-NO BORDER FOR T-BAR MOUNTING	-NO BORDER FOR T-BAR MOUNTING -BORDER REQUIRED WHERE USED IN DRYWALL CEILINGS -ALUMINUM CONSTRUCTION -ALUMINUM DAMPER	-DOUBLE DEFLECTION (ADJUSTABLE BLADES) -STEEL DAMPER	-SINGLE DEFLECTION (FIXED BLADES) -1/2" BLADE SPACING -STEEL DAMPER	-FLAT BORDER BOTH SIDES	-ALUMINUM -BIRDSCREEN -BACKDRAFT DAMPER	-ALUMINUM CONSTRUCTION -BIRDSCREEN
ALTERNATE MANUFACTURERS	NAILOR, TITUS, METALAIRE									

DESTRATIFICATION FAN SCHEDULE		
TAG		DF-1
SERVICE		APPARATUS BAY
MANUFACTURER		BIG-ASS FAN
MODEL		POWERFUL D
AIRFLOW		UP/DOWN DRAFT, VARIABLE SPEED
FAN SIZE	feet	16
MAX RPM		108
FINISH (FOILS)		STD (MILL)
WINGLETS		STD (YELLOW)
ELECTRICAL	volt/ph	120/1
WATTS		500
DRIVE		DIRECT (GEARLESS)
DOWNROD LENGTH		TO SUIT
WEIGHT	lbs	250
CONTROLS		-REFER TO CONTROLS
ALTERNATE MANUFACTURERS		MACROAIR, GREENHECK, CAPTVEAIRE

ENERGY RECOVERY VENTILATOR (ERV) SCHEDULE		
TAG		ERV-1
SERVICE		VENTILATION/EXHAUST
LOCATION		ROOF
MANUFACTURER		COOK
MODEL		ERV-1500
AIR FLOW	cfm	455
STATIC	in.wc.	0.3/0.6 (SUPPLY/EXHAUST)
MOTOR	hp	0.5 (SUPPLY/EXHAUST)
MOTOR SPEEDS		1
ELECTRICAL	volt/ph	208/1
MCA	amps	11
MOCP	amps	15
UNIT DIMENSIONS	inches	54.25Lx49.25Wx4.3H
WEIGHT	lbs	604
ACCESSORIES		-1" INSULATION, DOUBLE WALL -POWDER COATED FINISH (GREY) -MERV8 DISPOSABLE FILTERS (SUPPLY & EXHAUST) -DISCONNECT SWITCH -24" ROOF CURB (INSULATED) -WHEEL ROTATION SENSOR -MOTORIZED INTAKE DAMPER -GRAVITY RELIEF (EXHAUST) DAMPER -PREHEAT FROST CONTROL -INTAKE & EXHAUST WEATHER HOODS
CONTROLS		-REFER TO CONTROLS
NOTES		SITE REQUIREMENTS, ADDITIONAL WORK AND EXTRA COSTS DUE TO THE SUPPLY OF ALTERNATE EQUIPMENT IS THE CONTRACTORS RESPONSIBILITY.
ALTERNATE MANUFACTURERS		SYSTEMAIR, GREENHECK, RUSKIN, NORTEK

FAN COIL SCHEDULE		
TAG		FC-1
SERVICE		REFER TO LAYOUTS
QUANTITY		-
MANUFACTURER		REFPLUS
MODEL		EKA-1400-2W
UNIT TYPE		KOMPACT INDUSTRIAL WALK-IN
CONFIGURATION		2 PIPE
HANDING		SITE CONFIRM
FAN VOLUME	cfm	2100
ESP	in.wg	0.25
FAN MOTOR	volts/ph	240/1
FLA	amps	2.0
COIL		
ROWS		4
FINS PER INCH		7
COOLING		
EAT db/wb	"F	80/69.3
EWI	"F	55
WATER FLOW	gpm	5.2
LAT db/wb	"F	69.3/56.2
TOTAL CAPACITY	mbh	24.4
SENSIBLE CAPACITY	mbh	24.0
WPD	ft.wg	11.69
CONTROLS		LOCAL THERMOSTAT
ACCESSORIES		-FILTERS -ECM FAN MOTORS -HANGING SPRING ISOLATORS -DISCONNECT SWITCH -THERMOSTAT -2-WAY CONTROL VALVE
NOTES		-HANDING TO BE CONFIRMED BY CONTRACTOR AT TIME OF ORDERING -CHANGES, ADDITIONAL WORK AND EXTRA COSTS DUE TO THE SUPPLY OF ALTERNATE EQUIPMENT IS THE CONTRACTORS RESPONSIBILITY.
ALTERNATE MANUFACTURER		REFER TO SPECIFICATIONS

MOTORIZED DAMPER SCHEDULE			
TAG		MD-1	MD-2
SERVICE		EF-1 MAKEUP	EF-1 EXHAUST
LOCATION		SOUTH WALL	SOUTH WALL
MANUFACTURER		TAMCO	TAMCO
MODEL		9000 (INSULATED)	9000 (INSULATED)
SIZE	inches	41x30	24x24
AIR FLOW	cfm	3,100	3,100
ACTUATOR		BELIMO NFB24-S	BELIMO NFB24-S
OPERATION		OPEN - CLOSE	OPEN - CLOSE
ELECTRICAL	volt/ph	24V/1ø	24V/1ø
CONTROLS		-REFER TO CONTROL SCHEMATICS AND SEQUENCES	-REFER TO CONTROL SCHEMATICS AND SEQUENCES
ALTERNATE MANUFACTURERS		GREENHECK, NAILOR, VENTEX	GREENHECK, NAILOR, VENTEX

ISSUE / REVISIONS	
1 ISSUED FOR PERMIT	Mar 21 22
2 ISSUED FOR QA/QC	Apr 14 22
3 ISSUED FOR TENDER	Jul 07 22

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Project Status
PROJECT No. 21-100
START DATE OCT.21

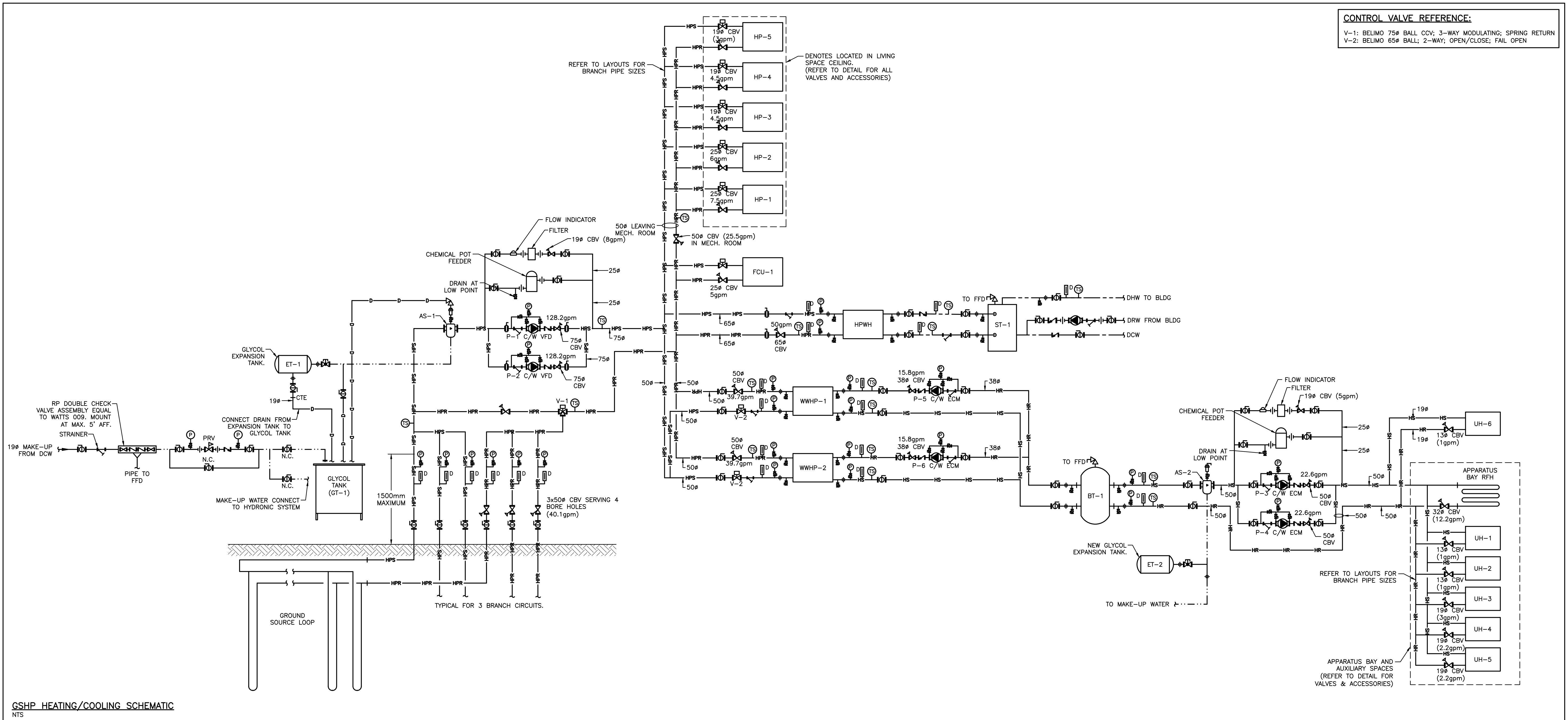
**City of Peterborough
FIRE STATION NO.2**

100 Marina Boulevard, Peterborough, ON
Drawing Title:

SCHEDULES

Drawing No.:

M803



ISSUE / REVISIONS

1	ISSUED FOR PERMIT	Mar 21 22
2	ISSUED FOR QA/QC	Apr 14 22
3	ISSUED FOR TENDER	Jul 07 22

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START DATE	OCT.21

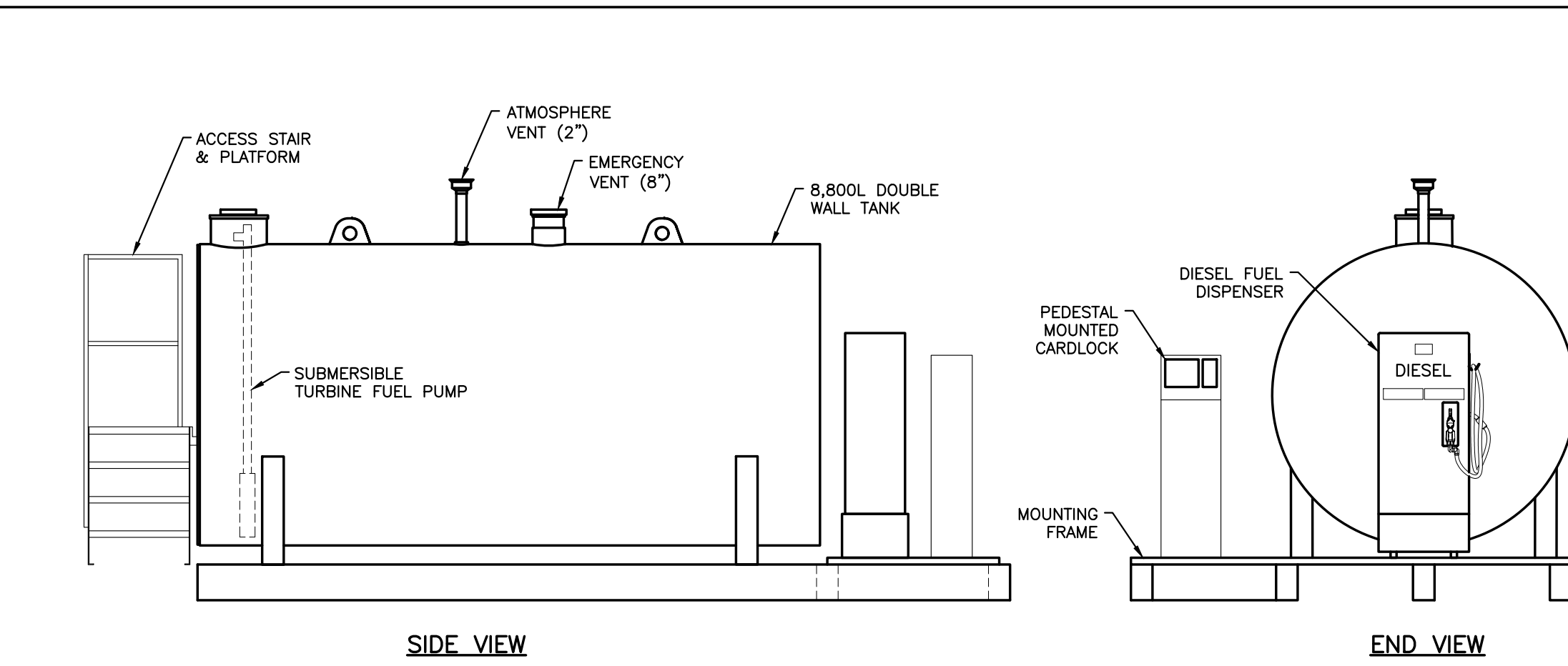
**City of Peterborough
 FIRE STATION NO.2**

100 Marina Boulevard, Peterborough, ON
 Drawing Title:

HEATING PIPING SCHEMATIC

Drawing No.:

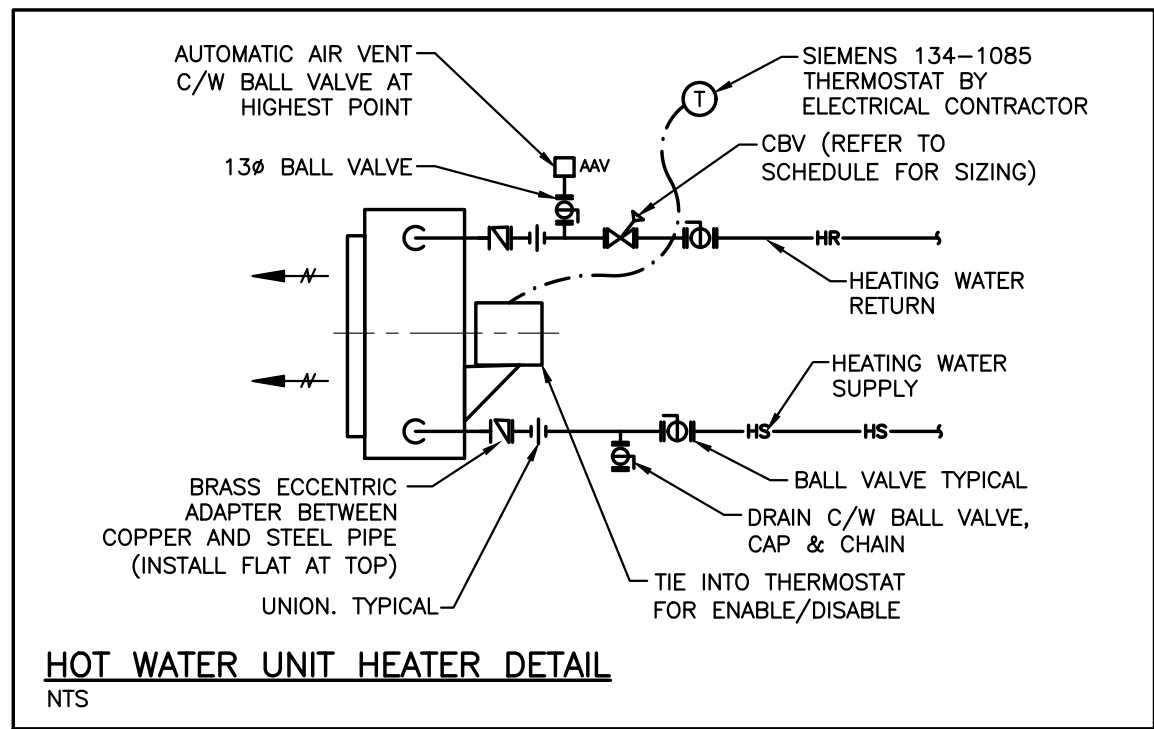
M901



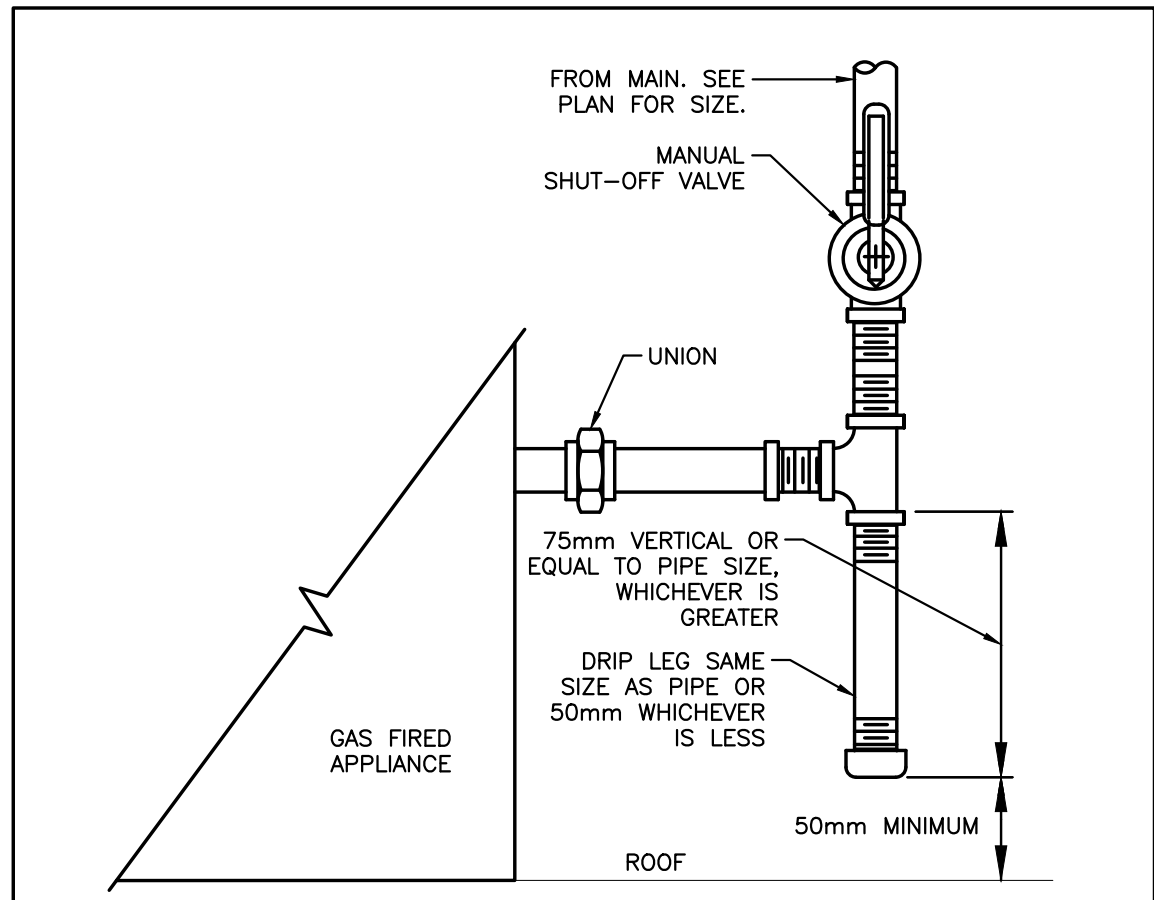
PRE-FABRICATED DIESEL REFUELING STATION DETAIL
NTS

DIESEL REFUELING STATION SPECIFICATIONS:

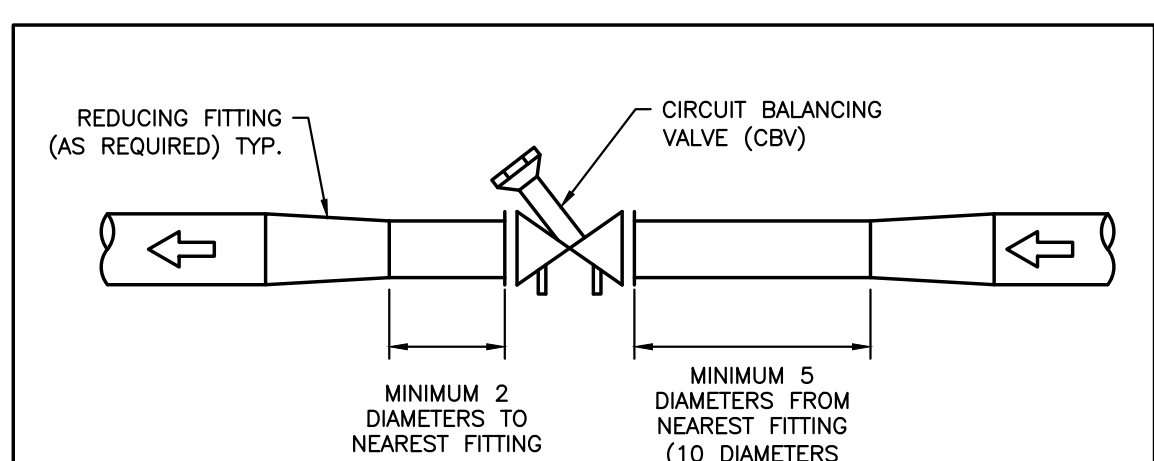
- ALL MATERIALS, WORK AND INSTALLATION SHALL BE CONFORMANCE WITH, BUT NOT LIMITED TO:
 - 1. TSSA LIQUID FUELS HANDLING CODE 2017
 - 2. ONTARIO FIRE CODE
 - 3. CAN/ULC-S601-14
- STATION TO BE COMPRISED OF A COMPLETE, PRE-FABRICATED, TURNKEY, SKID/FRAME MOUNTED, CARDLOCK DIESEL FUELING DISPENSER, AS PROVIDED BY TOTAL METER SERVICES INC., OR EQUIVALENT.
- BASE CONTENT SHALL INCLUDE:
 - 1. 8,800L, POWDER COATED, DUAL WALL ULC S601 COMPLIANT TANK, COMPLETE WITH FILL/DIP SITE, ATMOSPHERIC VENT, EMERGENCY VENT, LIFTING LUGS, ACCESS STAIR WITH RAIL AND VACUUM MONITOR.
 - 2. DIESEL FUEL DISPENSER, EQUAL TO WAYNE MODEL SELECT S1, COMPACT DESIGN, SINGLE HOSE, LANE ORIENTED (TO SUIT FINAL LOCATION), ATC, INTERNAL FILTER, PULSE O.P., HOSE HANGER, METER, HEATER AND 12 FEET OF 1" HOSE.
 - 3. SUBMERSIBLE DIESEL TURBINE FUEL PUMP, EQUAL TO FE PETRO MODEL #STP150-VL (LENGTH TO SUIT TANK SIZE), 1-1/2" HP, 208-230V, 3450 RPM COMPLETE WITH CHECK VALVE, PRESSURE RELIEF VALVE, VENTURI-TYPE SYPHON PRIMER, AIR ELIMINATOR AND ELECTRICAL DISCONNECT.
 - 4. CONTROL BOX SWITCH FOR PUMP.
 - 5. COMPUTROL FLEET 220 CARDLOCK SYSTEM WITH PEDESTAL (48" X 11" X 8") AND POWDER COATED COVER ASSEMBLY. SYSTEM COMPLETE WITH SERIAL TO ETHERNET DEVICE SERVER KIT (WITH P/S AND CABLE).
 - 6. JOMAR BALL VALVES WITH LOCKING HANDLES AND 1-1/2" ANTI-SYPHON VALVE.
- SUPPLIER OF REFUELING STATION SHALL INCLUDE DESIGN AND FABRICATION OF THE ABOVE, ALONG WITH FACTORY REPRESENTATIVE SUPPORT FOR COMMISSIONING, CALIBRATION AND FINAL TSSA FUELS SAFETY INSTALLATION INSPECTION.
- SITE WORK FOR REFUELING STATION, INCLUDING PAD, BOLLARDS AND CRANING INTO FINAL POSITION BY GENERAL CONTRACTOR. PROVIDE DETAILED SHOP DRAWINGS FOR REVIEW OF FINAL DESIGN AND ASSEMBLY PRIOR TO FABRICATION.
- PROVIDE SIGNAGE AS REQUIRED BY CODE AT DISPENSER.



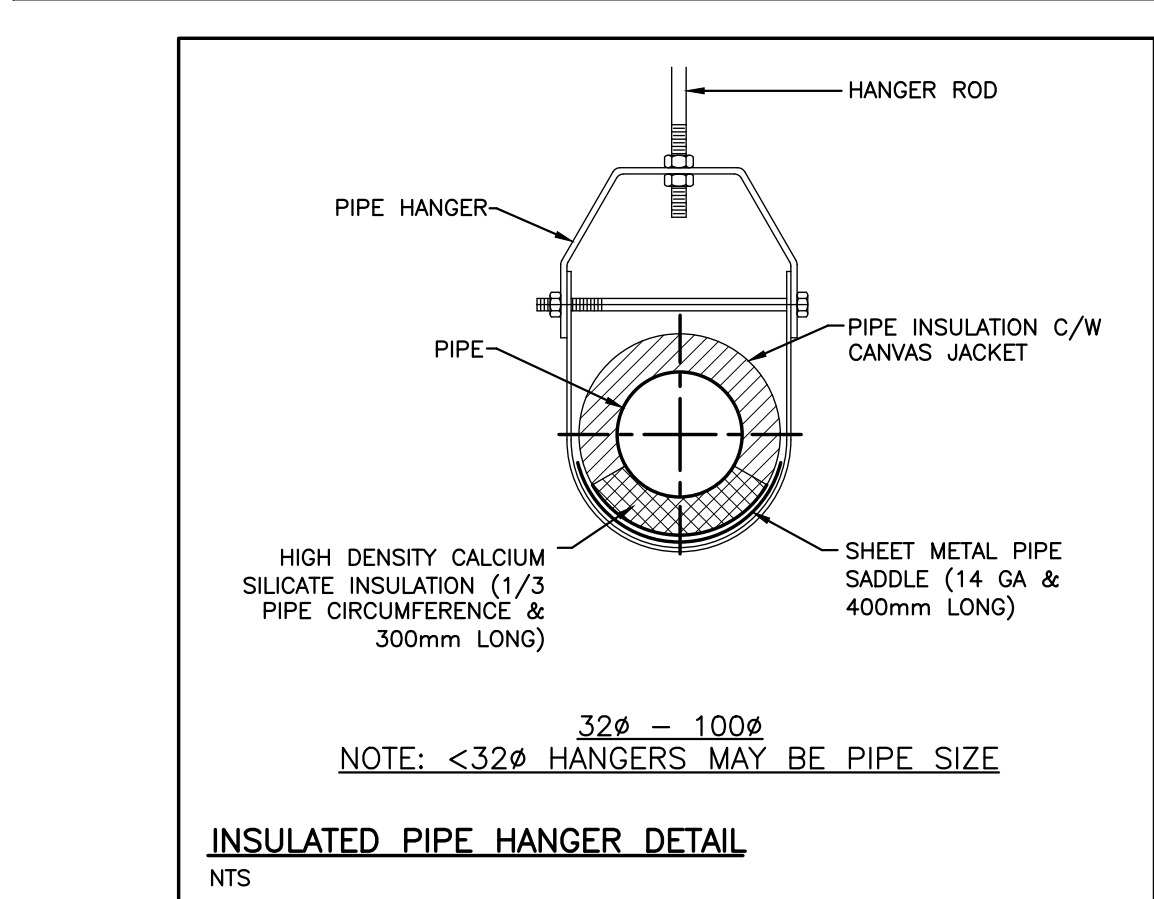
HOT WATER UNIT HEATER DETAIL
NTS



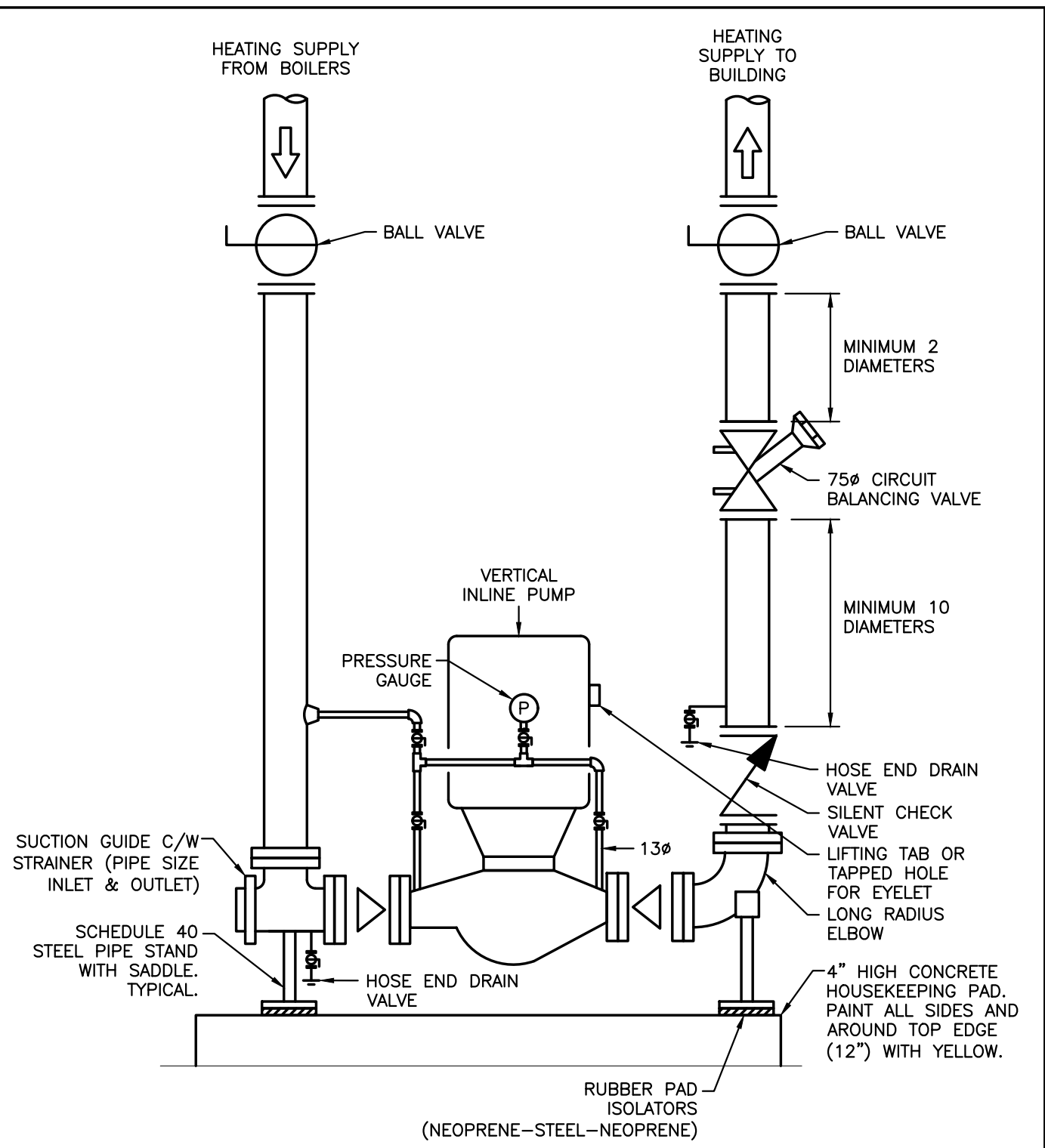
GAS LINE CONNECTION DETAIL (ELEVATION)
NTS



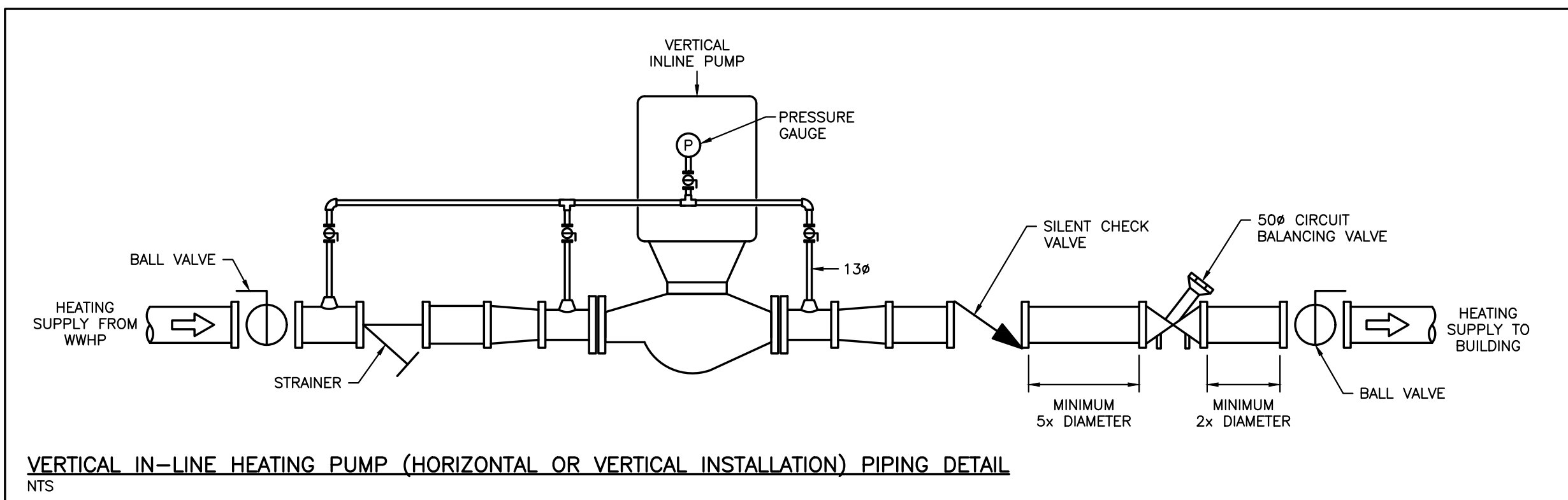
CIRCUIT BALANCING VALVE INSTALLATION DETAIL
NTS



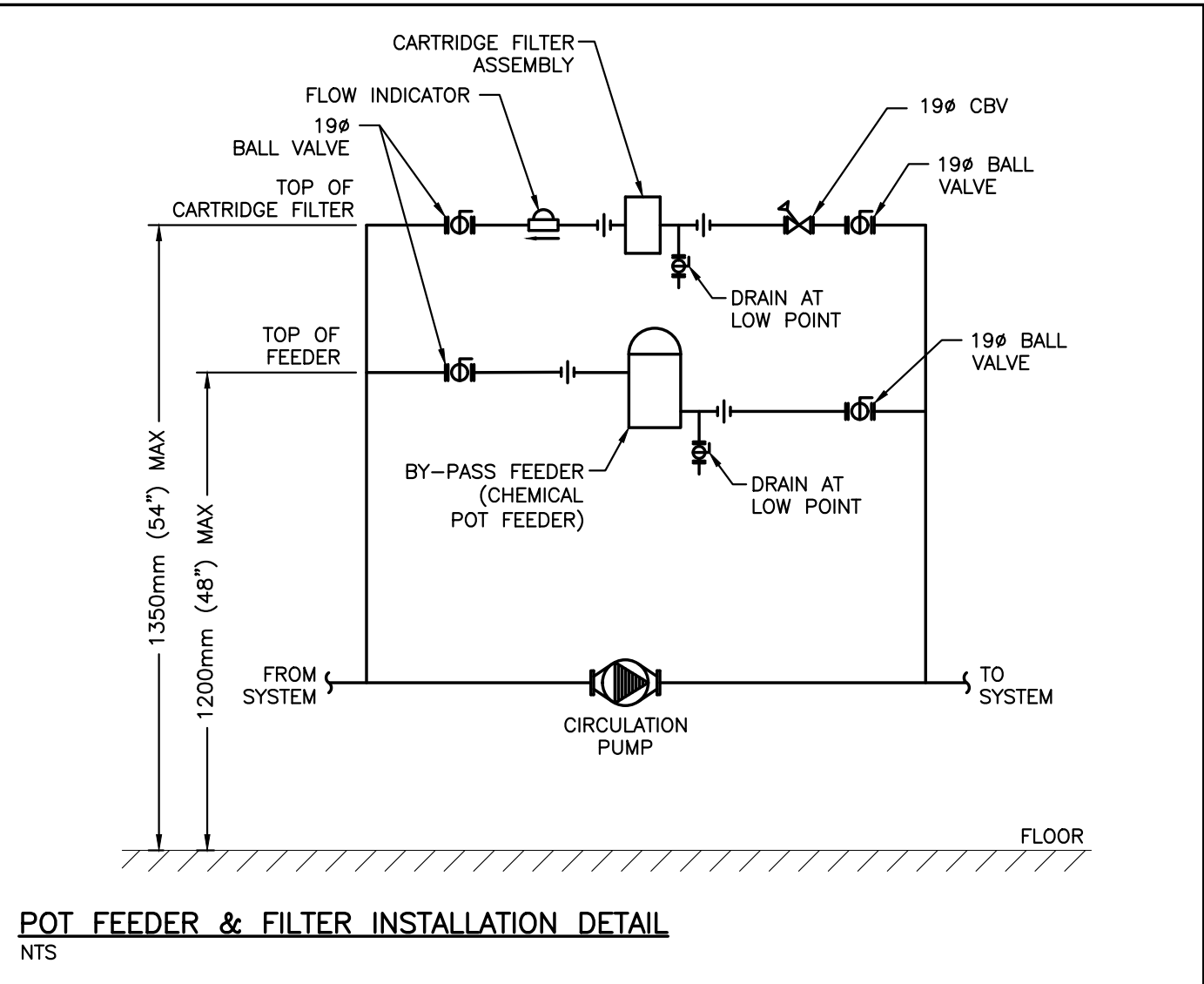
INSULATED PIPE HANGER DETAIL
NTS



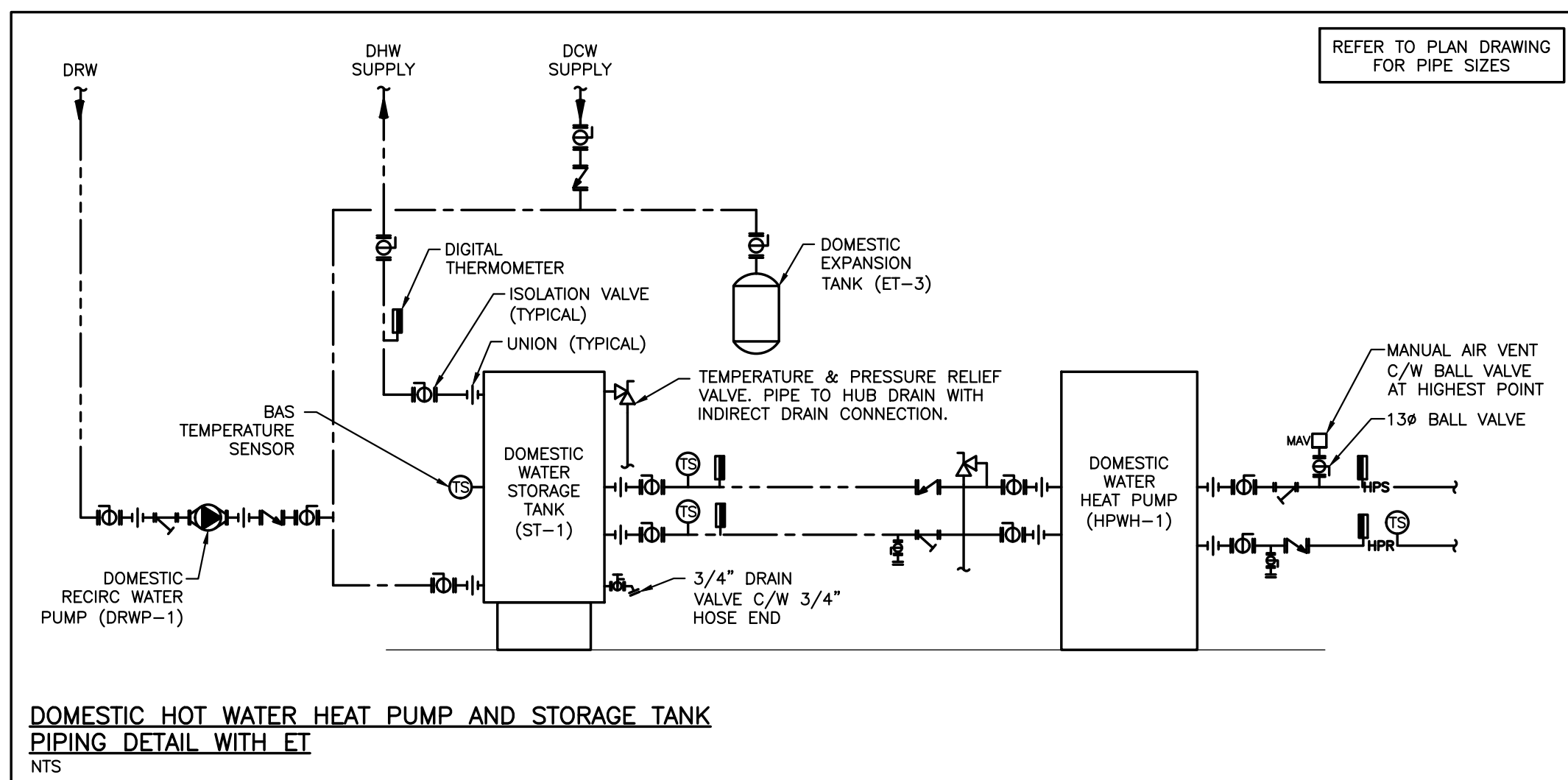
VERTICAL IN-LINE HEATING PUMP PIPING DETAIL
NTS



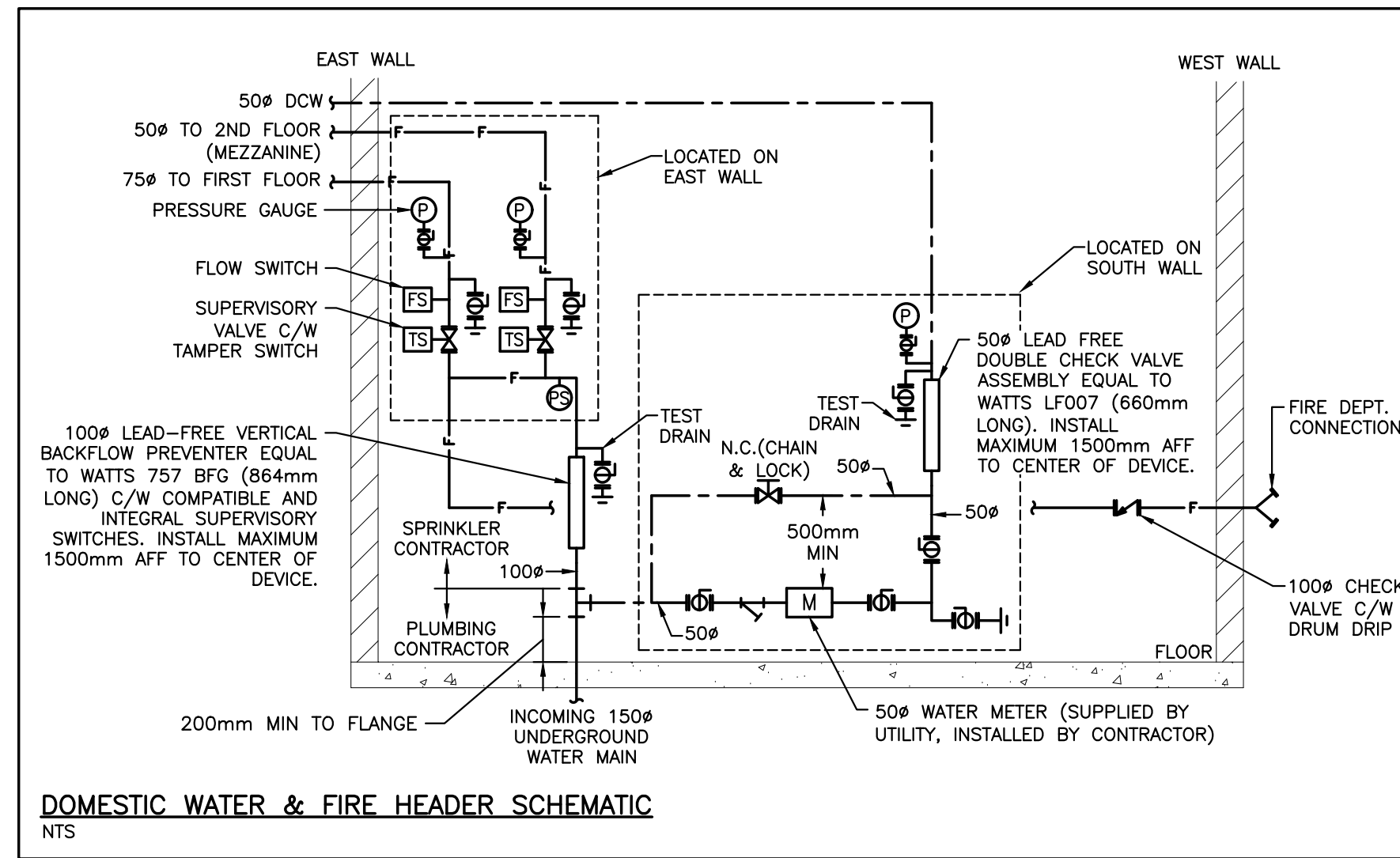
VERTICAL IN-LINE HEATING PUMP (HORIZONTAL OR VERTICAL INSTALLATION) PIPING DETAIL
NTS



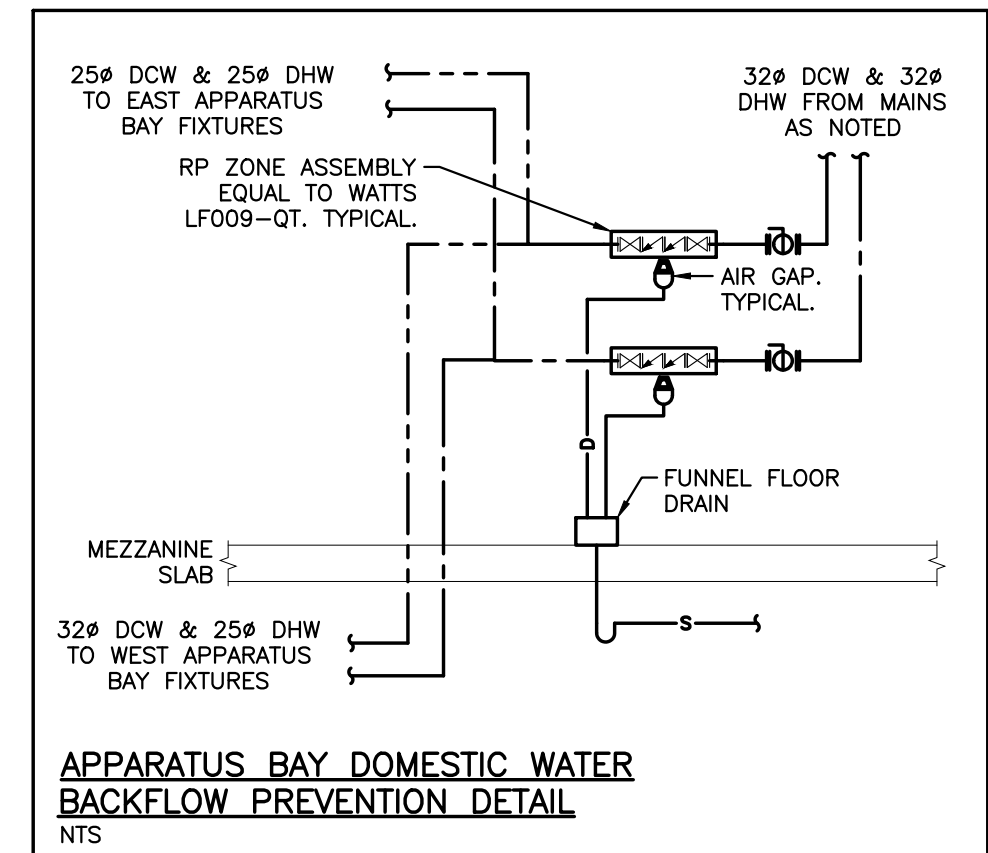
POT FEEDER & FILTER INSTALLATION DETAIL
NTS



DOMESTIC HOT WATER HEAT PUMP AND STORAGE TANK PIPING DETAIL WITH ET
NTS



DOMESTIC WATER & FIRE HEADER SCHEMATIC
NTS



APPARATUS BAY DOMESTIC WATER BACKFLOW PREVENTION DETAIL
NTS

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1 ISSUED FOR PERMIT	Mar 21 22
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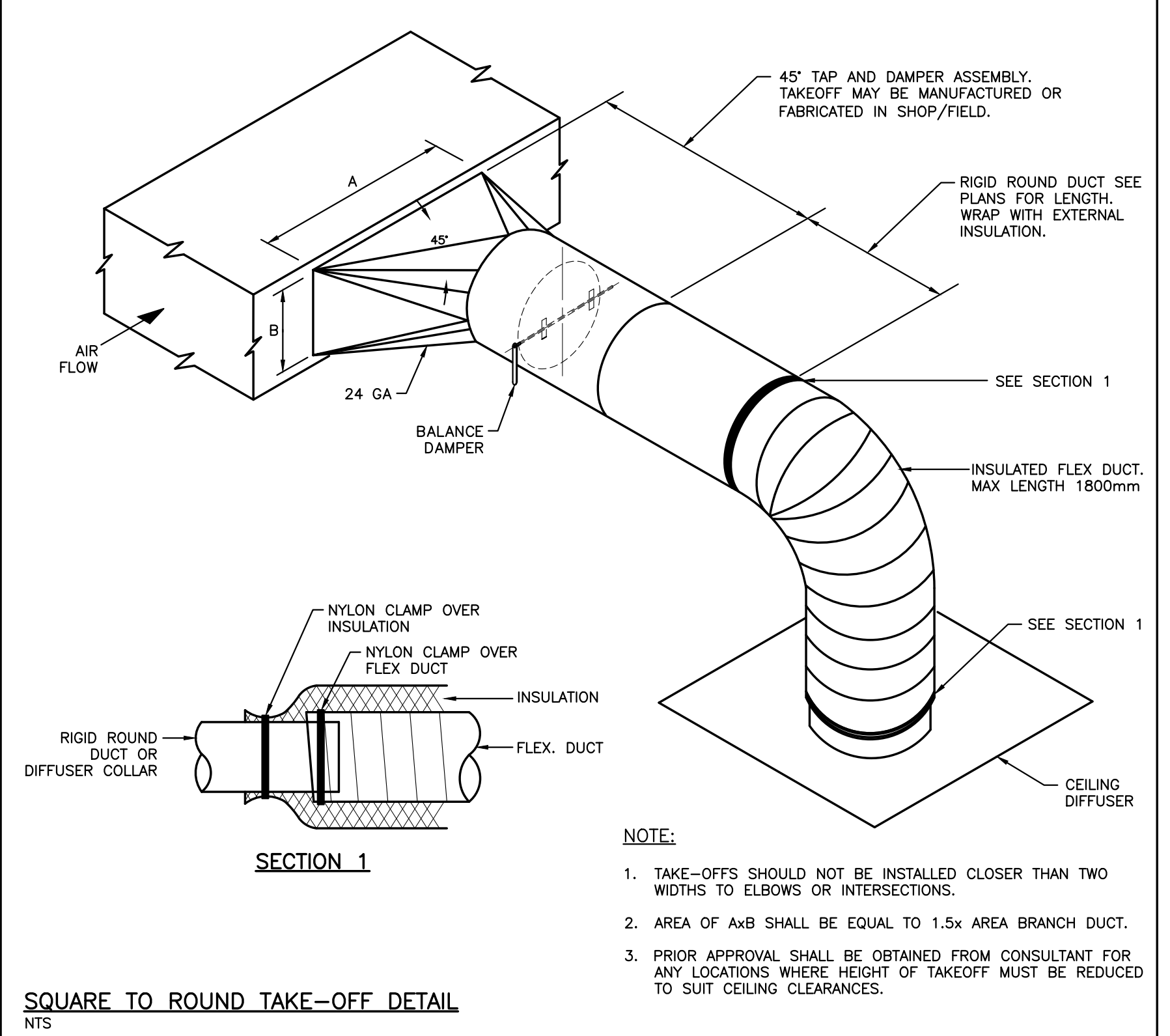
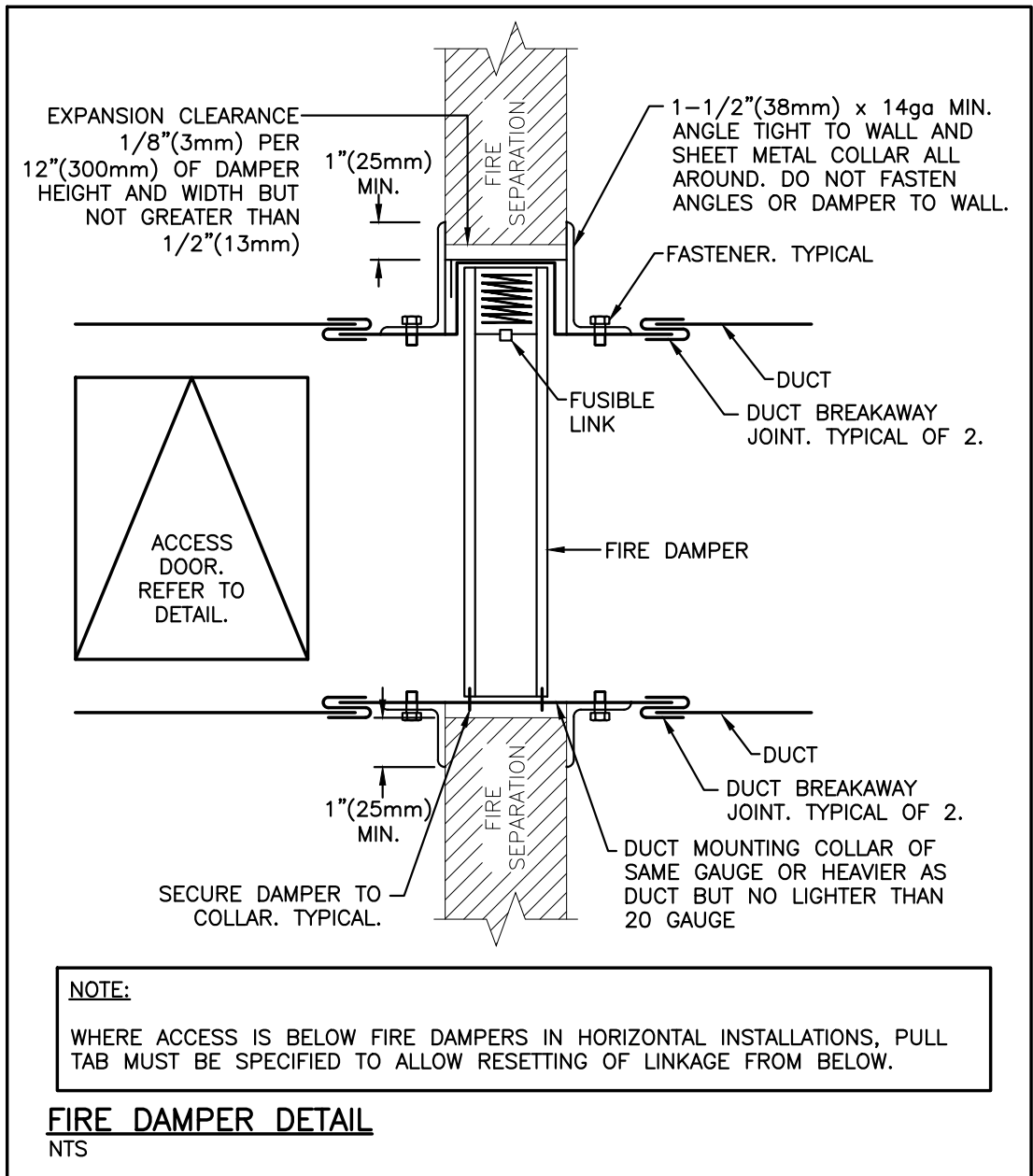
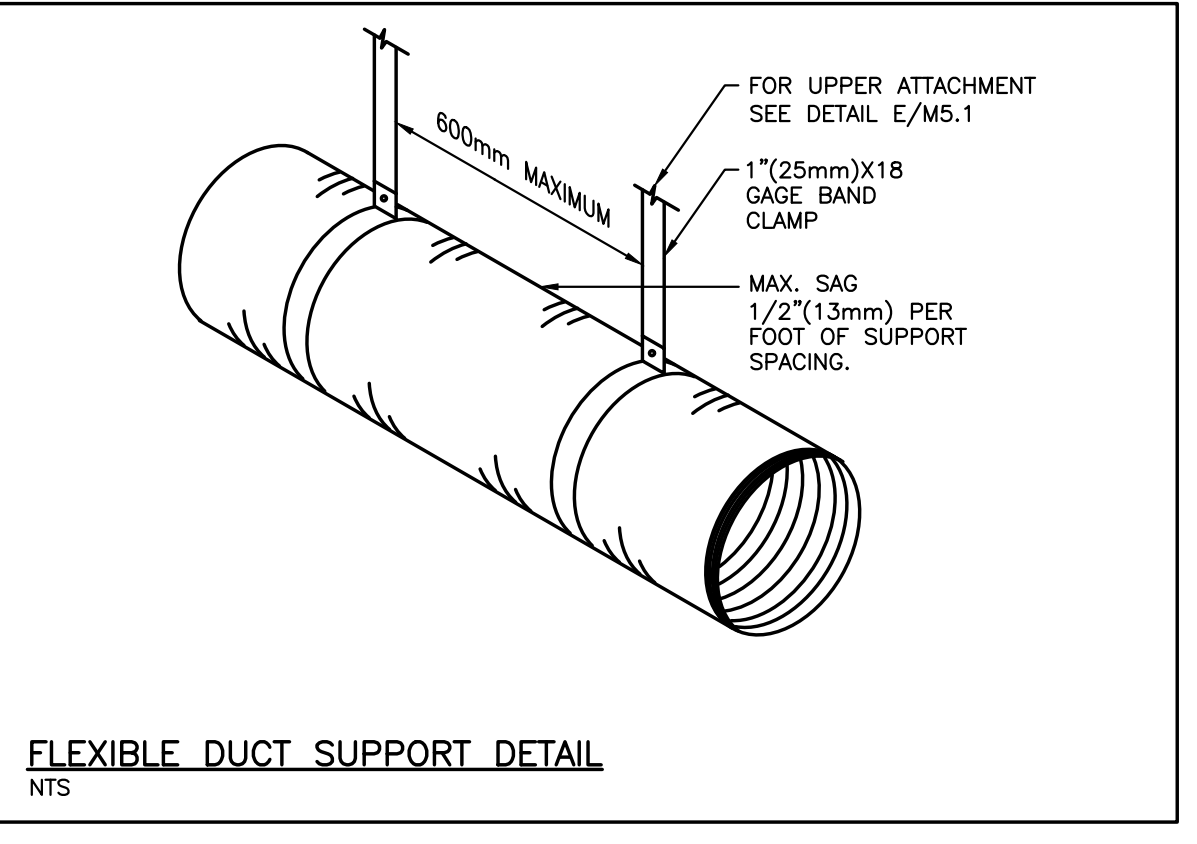
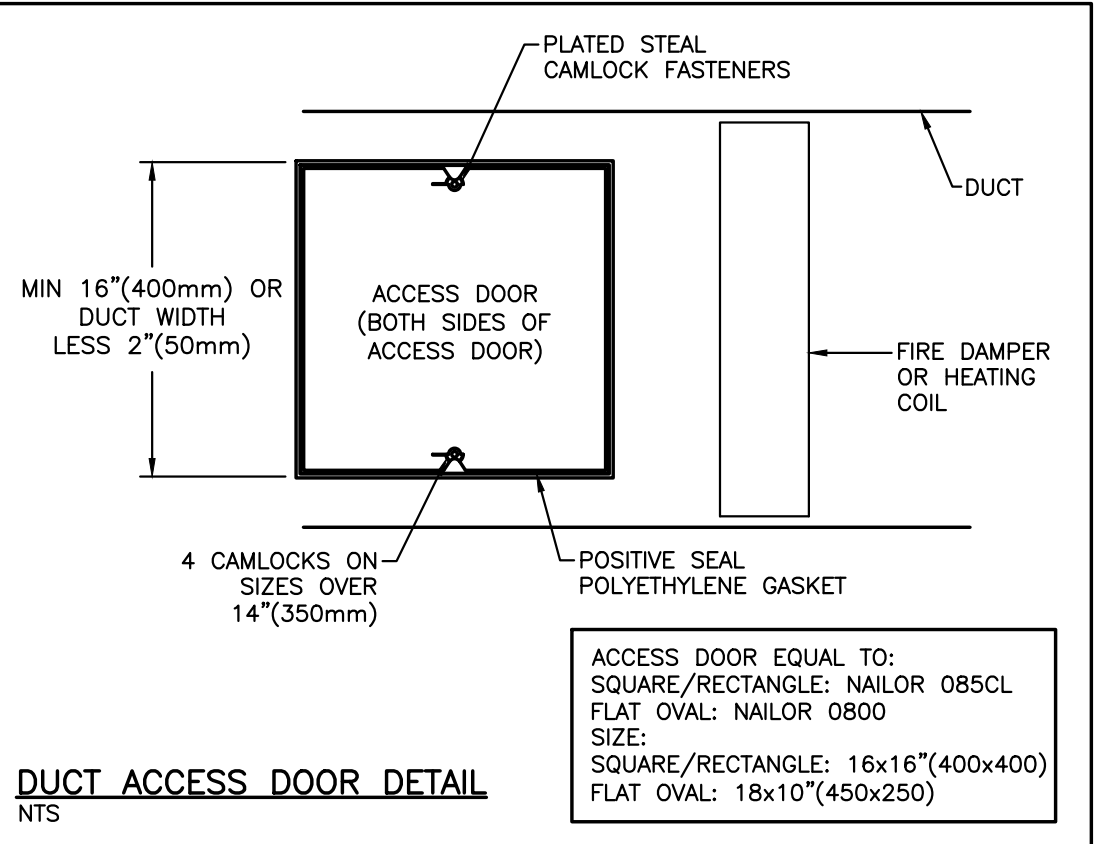
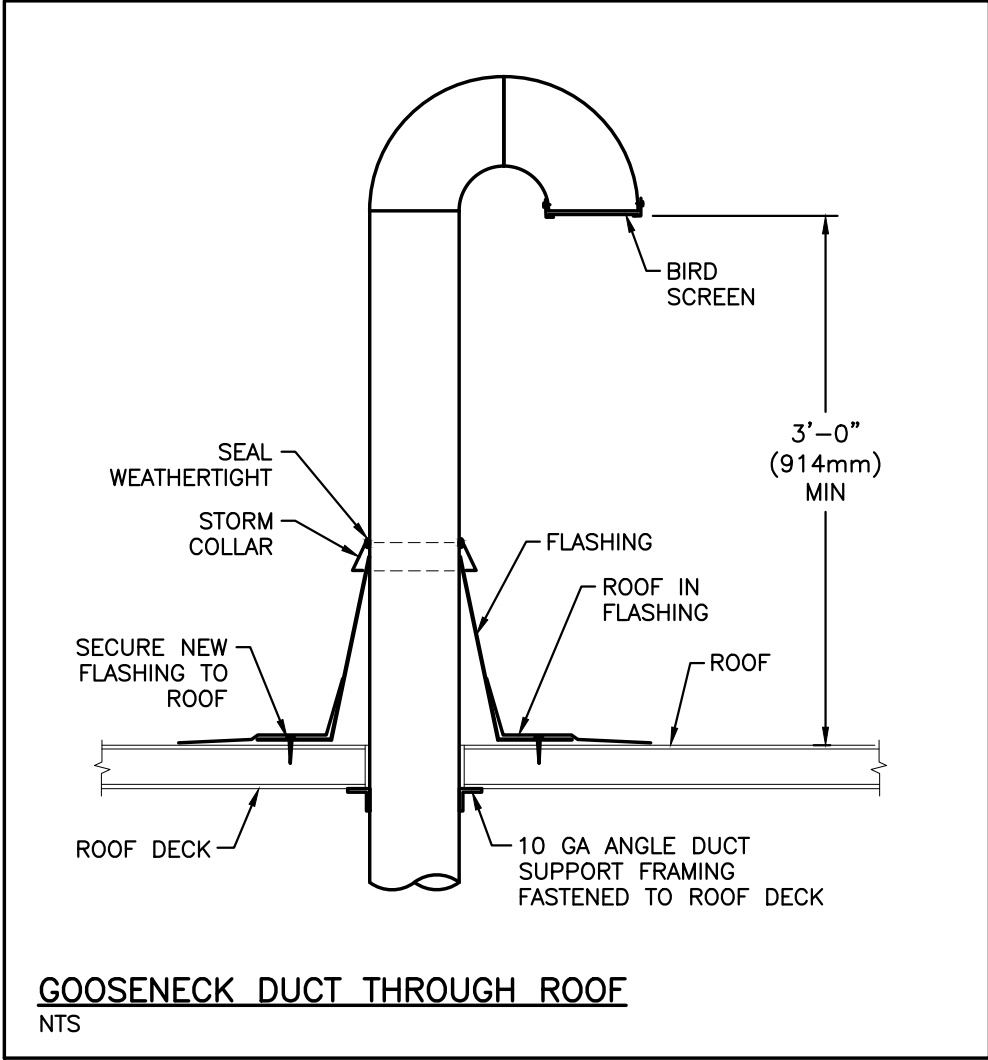
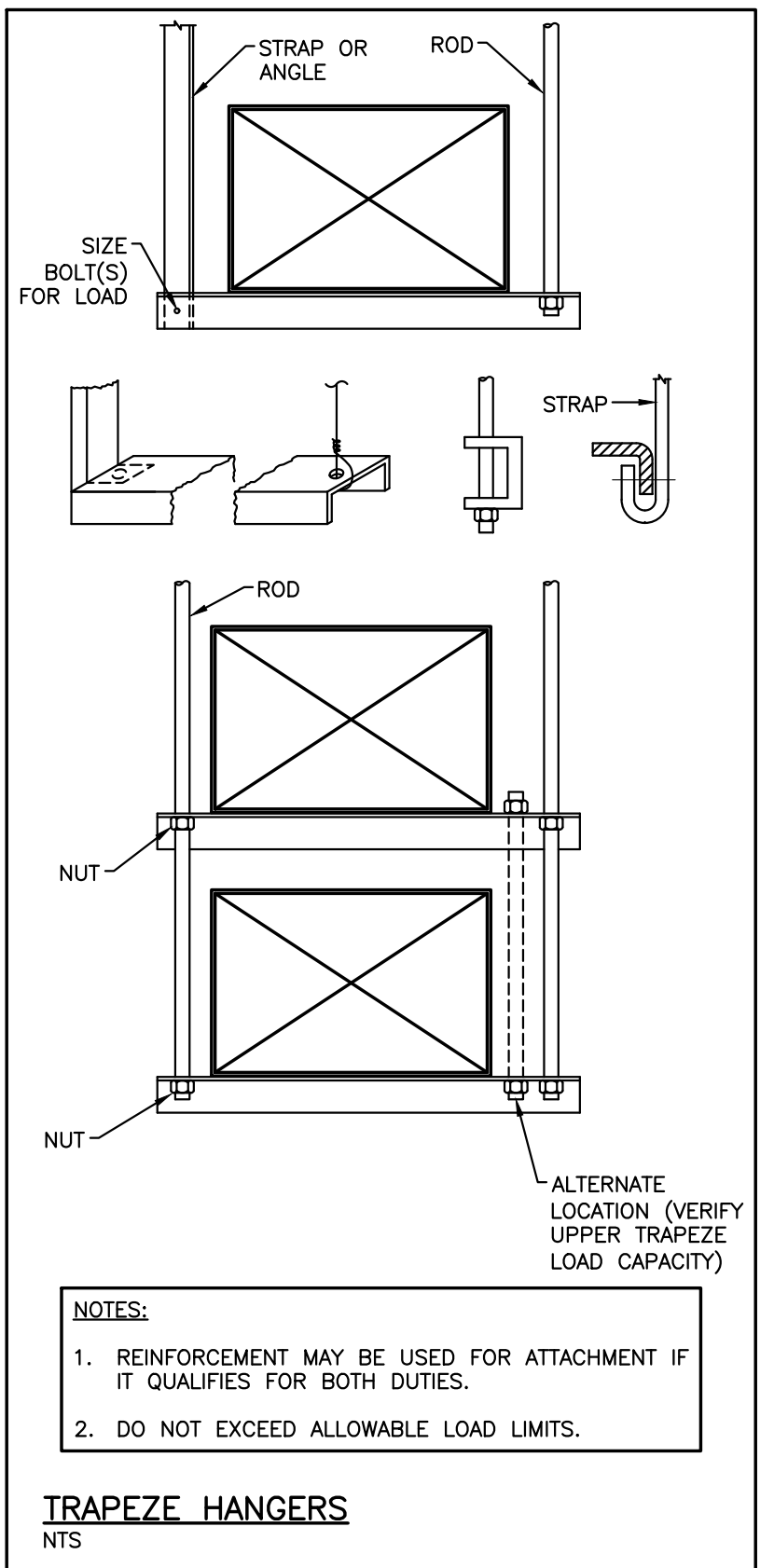
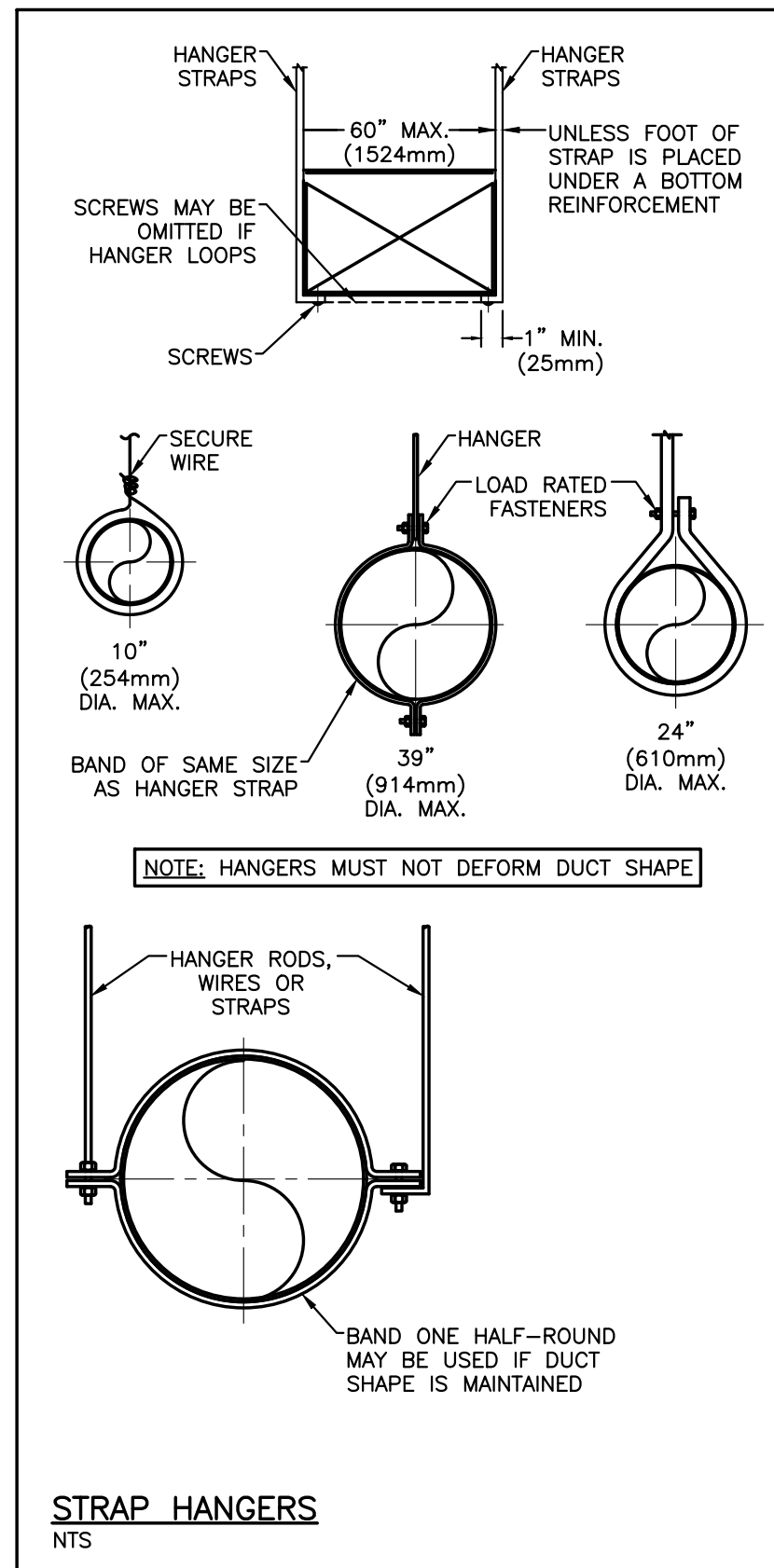
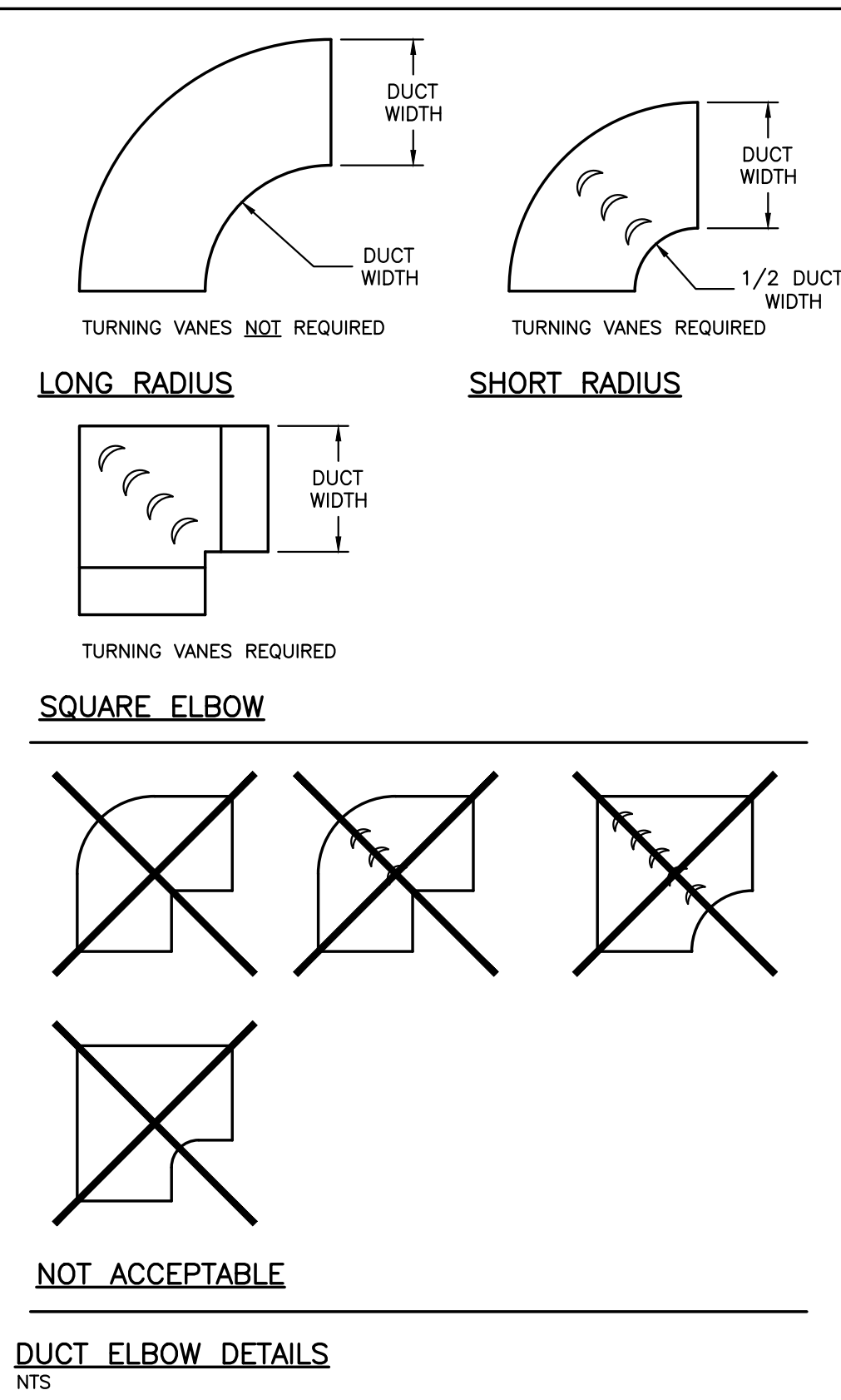
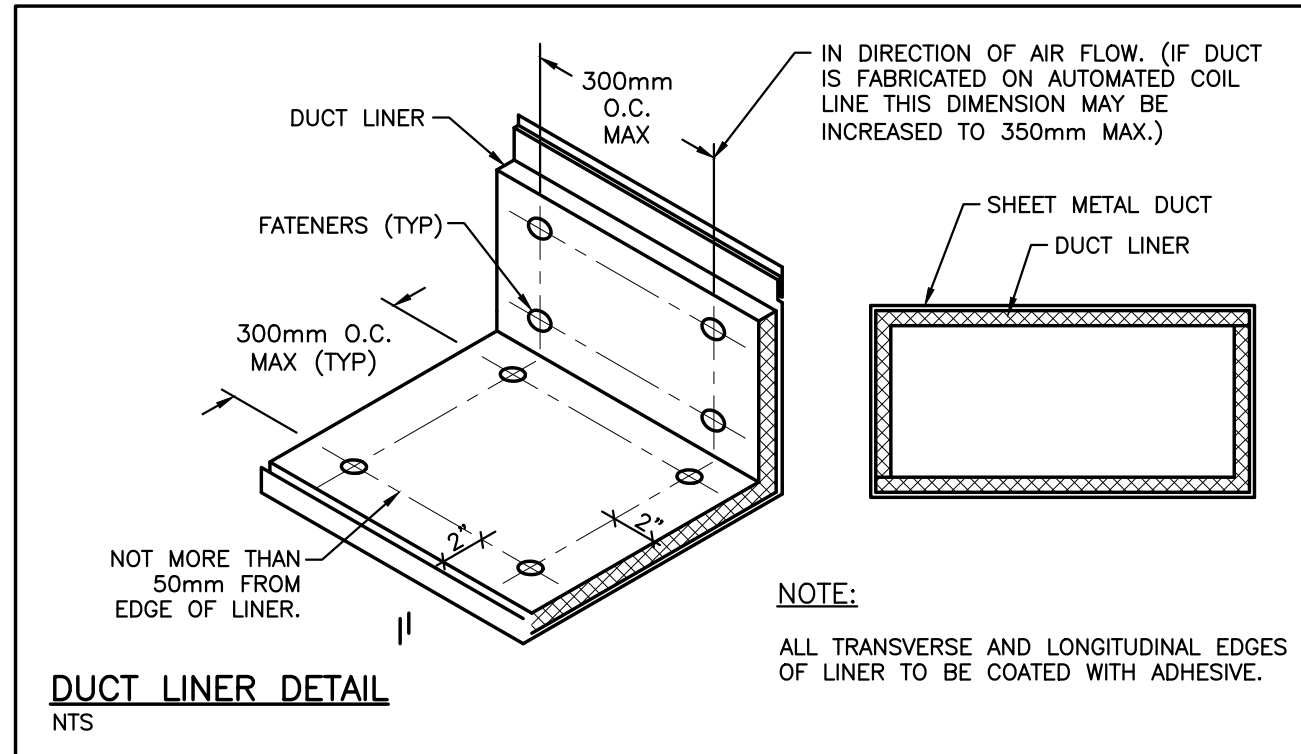
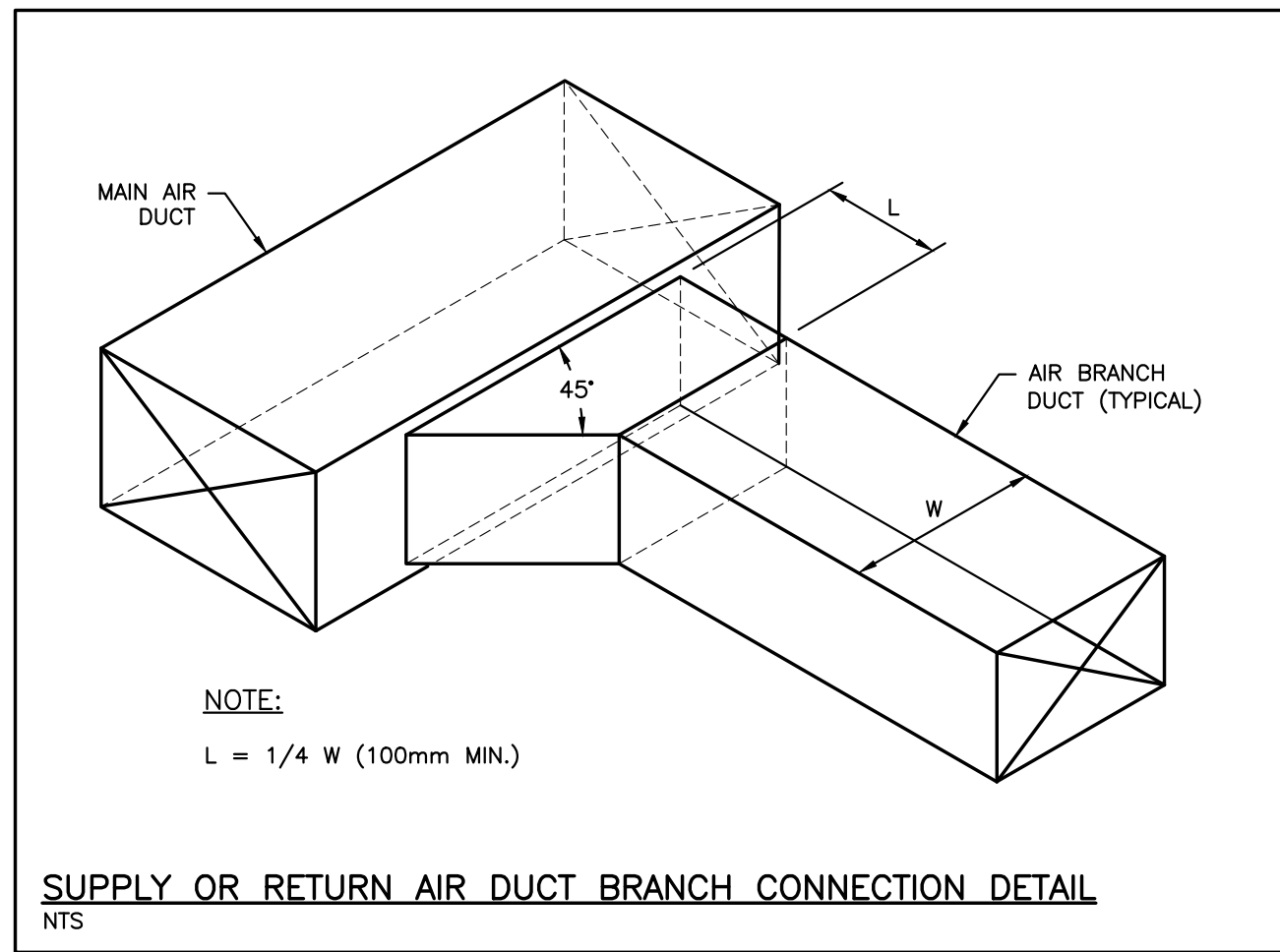
Project Status	
PROJECT No. 21-100	
START DATE OCT. 21	

City of Peterborough
FIRE STATION NO. 2

100 Marina Boulevard, Peterborough, ON
Drawing Title:
PIPING DETAILS

ISSUE / REVISIONS

1 ISSUED FOR PERMIT	Mar 21 22
2 ISSUED FOR QA/QC	Apr 14 22
3 ISSUED FOR TENDER	Jul 07 22



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Project Status
PROJECT No. 21-100
START DATE OCT. 21

**City of Peterborough
FIRE STATION NO. 2**

100 Marina Boulevard, Peterborough, ON
Drawing Title:

SHEET METAL DETAILS

Drawing No.:

M903

ISSUE / REVISIONS

Table with 2 columns: Issue No., Description, Date. Includes entries for Permitt, Q/A/C, and Tender.

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Project Status

PROJECT No. 21-100 START DATE OCT.21

City of Perterborough FIRE STATION NO.2

SEISMIC SPECIFICATIONS:

PART 1 - GENERAL

- 1. GENERAL
1. IT IS THE INTENT OF THIS SEISMIC SPECIFICATION TO KEEP ALL MECHANICAL BUILDING SYSTEM COMPONENTS IN PLACE DURING A SEISMIC EVENT.
2. ALL SUCH SYSTEMS MUST BE INSTALLED IN STRICT ACCORDANCE WITH SEISMIC CODES...

- 4. DESCRIPTION OF SYSTEM
1. IT SHALL BE UNDERSTOOD THAT THE REQUIREMENTS OF THIS SEISMIC RESTRAINT SECTION ARE IN ADDITION TO OTHER REQUIREMENTS AS SPECIFIED ELSEWHERE...
5. SYSTEM DESIGN
1. SEISMIC SNUBBER MANUFACTURER SHALL BE RESPONSIBLE FOR THE STRUCTURAL DESIGN OF ATTACHMENT HARDWARE...

PART 2 - PRODUCTS

- 1. SOURCE OF MATERIALS
1. ALL SEISMIC SNUBBERS AND COMBINATION SNUBBER / VIBRATION ISOLATION MATERIALS SPECIFIED HEREIN SHALL BE PROVIDED BY A SINGLE MANUFACTURER TO ASSURE SOLE SOURCE RESPONSIBILITY...
2. MECHANICAL ANCHOR TYPES AND SIZES ARE TO BE PER THE DESIGN DATA AS PROVIDED BY THE SEISMIC RESTRAINT MANUFACTURER.

- 3. SEISMIC RESTRAINT ISOLATION
1. ISOLATORS:
1. VIBRATION/SEISMIC SPRING FLOOR MOUNTS: TYPE FHS - SPRING ISOLATORS SHALL BE SEISMICALLY RESTRAINED SPRING ISOLATORS...

- 3. VIBRATION/SEISMIC MODULAR RESTRAINED SPRING ISOLATOR: TYPE FMS (A, B, C, D, E, F) - THE ISOLATOR/RESTRAINT SHALL BE MODEL FMS (A, B, C, D, E, F) AS MANUFACTURED BY KINETICS NOISE CONTROL, INC. OR ACCEPTABLE EQUAL.
4. ALL DIRECTION NEOPRENE ISOLATOR: TYPE RQ - VIBRATION ISOLATORS SHALL BE NEOPRENE, MOLDED FROM OIL RESISTANT COMPOUNDS...
3. SEISMIC RESTRAINTS
1. SEISMIC RESTRAINT DEVICES:
1. SEISMIC CABLE RESTRAINTS: SEISMIC WIRE ROPE CABLE RESTRAINTS SHALL CONSIST OF STEEL WIRE STRAND CABLES...

PART 3 - EXECUTION

- 1. INSTALLATION
1. INSTALLATION OF ALL SEISMIC RESTRAINT MATERIALS SPECIFIED IN THIS SECTION SHALL BE ACCOMPLISHED AS PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. UPON COMPLETION OF INSTALLATION OF ALL SEISMIC RESTRAINT MATERIALS AND BEFORE START UP OF RESTRAINED EQUIPMENT, ALL DEBRIS SHALL BE CLEANED FROM BENEATH ALL PROTECTED EQUIPMENT...
2. EXECUTION
1. SHACKLE PIPING TO THE TRAPEZE WHEN RESTRAINING TRAPEZE MOUNTED PIPING, CONDUIT AND DUCTWORK. INSTALL CABLES SO THEY DO NOT BEND ACROSS SHARP EDGES OF ADJACENT EQUIPMENT OR BUILDING STRUCTURE.

- 4. SEISMIC RESTRAINT FOR PIPING, DUCT:
1. ALL PIPING, DUCT ARE TO BE RESTRAINED TO MEET CODE REQUIREMENTS.
1. ALL PIPING SYSTEMS ASSIGNED A COMPONENT IMPORTANCE FACTOR OF 1.5 SHALL REQUIRE SEISMIC RESTRAINTS...

- 4. SEISMICALLY RESTRAIN / BRACE ALL PIPING IN BOILER ROOMS, MECHANICAL ROOMS AND REFRIGERATION MECHANICAL ROOMS 32 MM (1 3/4") IN NOMINAL DIAMETER AND LARGER.
5. SEISMICALLY RESTRAIN / BRACE ALL GAS (E.G. NATURAL GAS, MEDICAL GAS, VACUUM, PETROLEUM BASED LIQUID, COMPRESSED AIR, ETC.) PIPING 25 MM (1") IN NOMINAL DIAMETER AND LARGER.
6. BRANCH LINES MAY NOT BE USED TO BRACE MAIN LINES.
5. RESTRAINT SPACING FOR PIPING:
1. FOR DUCTILE PIPING: TRANSVERSE SUPPORTS A MAXIMUM OF 12 M (40') O.C.
2. FOR DUCTILE PIPING: LONGITUDINAL SUPPORTS A MAXIMUM OF 24 M (80') O.C.

- 6. SEISMICALLY RESTRAIN PER SPECIFIC CODE REQUIREMENTS, ALL DUCTWORK LISTED BELOW (UNLESS OTHERWISE INDICATED ON THE DRAWINGS), USING SEISMIC CABLE RESTRAINTS:
1. ALL DUCTS WITH CROSS SECTIONAL AREA EQUAL TO OR GREATER THAN 0.55 M2 (6 FT2).
2. ALL ROUND DUCTS WITH DIAMETERS EQUAL TO OR GREATER THAN 28" (710 MM).
3. ANY DUCTWORK, PIPE OR EQUIPMENT, WHICH IF IT WERE TO FAIL WOULD RESULT IN DAMAGE TO A PIECE OF EQUIPMENT OR BUILDING FUNCTION THAT HAS A COMPONENT IMPORTANCE FACTOR OF 1.5.
7. RESTRAINT SPACING FOR DUCTWORK:
1. TRANSVERSE SUPPORTS A MAXIMUM OF 9 M (30') O.C.
2. LONGITUDINAL SUPPORTS A MAXIMUM OF 18 M (60') O.C.

- 9. INSPECTION
1. THE CONTRACTOR SHALL NOTIFY THE LOCAL REPRESENTATIVE OF THE SEISMIC RESTRAINT MATERIALS MANUFACTURER PRIOR TO INSTALLING ANY SEISMIC RESTRAINT DEVICES. THE CONTRACTOR SHALL SEEK THE REPRESENTATIVE'S GUIDANCE IN ANY INSTALLATION PROCEDURES WITH WHICH HE IS UNFAMILIAR.
2. UPON COMPLETION OF THE INSTALLATION OF ALL SEISMIC RESTRAINT DEVICES HEREIN SPECIFIED, THE LOCAL REPRESENTATIVE OF THE SEISMIC SNUBBERS MANUFACTURER SHALL, AT THE CONTRACTORS REQUEST, INSPECT THE COMPLETED SYSTEM AND REPORT IN WRITING ANY INSTALLATION ERRORS, IMPROPERLY SELECTED SNUBBER DEVICES, OR OTHER FAULT IN THE SYSTEM WHICH COULD AFFECT THE PERFORMANCE OF THE SYSTEM.

WORKING NOTES:

- ① DUCTBANK SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO DETAIL.
- ② 300kVA TRANSFORMER BY UTILITY. REFER TO NOTES ON THIS DRAWING.
- ③ POWER AND DATA FOR PYLON SIGN. CONDUITS TO RUN THROUGH HUB ROOM.
- ④ CONDUIT TO BE EXTENDED TO PROPERTY LINE AND TERMINATED IN VAULT FOR FUTURE USE BY CITY.
- ⑤ CONDUIT TO BE TERMINATED AT GRADE FOR FUTURE EV.
- ⑥ POWER AND DATA CONDUIT FOR FUELING STATION.
- ⑦ DISCONNECT MOUNTED ON BUILDING FOR SOLAR PANEL DISCONNECTION. PROVIDE LABEL.
- ⑧ METER CABINET FOR UTILITY METER MOUNTED ON BUILDING.
- ⑨ TERMINATE COMMUNICATION CONDUITS AT PROPERTY LINE.
- ⑩ TERMINATE CONDUITS FOR FUTURE USE BY COP IN RECESSED JUNCTION BOX EQUAL TO BROOKLIN CONCRETE BCP2112.03 C/W TYPE A COVER AND FRAME THAT MEETS OPSD 401.010.

BUILDING ELECTRICAL SERVICE SIZE CALCULATION:

CALCULATIONS ARE BASED ON CLAUSE 8-102 OF THE ONTARIO ELECTRICAL SAFETY CODE.

- | | | |
|--|-------|--------------------|
| 1. TOTAL AREA | ----- | 1027m ² |
| 2. BASIC LOAD (@ 30W/m ² x1027) | --- | 27,149 WATTS |
| 3. MECH LOADS | ----- | 88,550 |
| 4. FUTURE EV | ----- | 28,800 WATTS |
| 5. TOTAL (2+3+4 FROM ABOVE) | --- | 145,040 WATTS |
| 6. CONTINUOUS LOAD (x125%) | ----- | 287,876 WATTS |
| 7. SERVICE SIZE (@208V/3φ) | ----- | 799A (800 AMPERES) |

SECONDARY SERVICE CONDUCTORS - 4 RUNS OF 4#350 KCMIL AL RU75 IN 103mm(4") DB2 PV DUCT BASED ON DIAGRAM D11 DETAIL 4 AND TABLE D11B (4 x 0.886 x 233 AMPERES = 825 AMPERES) FOR A NON-CONTINUOUS LOAD.

GENERAL ELECTRICAL SITE SERVICE NOTES:

1. HYDRO ONE SHALL PROVIDE TRANSFORMER C/W PAD AND PRIMARY CABLES. ELECTRICAL CONTRACTOR SHALL PROVIDE PRIMARY DUCT BANK, TRANSFORMER VAULT BOLLARDS, GROUNDING AND COMPLETE SECONDARY SERVICE INCLUDING CABLES AND DUCT BANK.
2. PAD MOUNTED DISTRIBUTION TRANSFORMER SHALL BE INSTALLED AT LEAST 3m FROM ANY COMBUSTIBLE SURFACE OR MATERIAL ON A BUILDING AND SHALL BE INSTALLED AT LEAST 6m FROM ANY OPENING ON A BUILDING INCLUDING WINDOWS, DOOR, OR VENTILATION INLET OR OUTLET ON A BUILDING.
3. WHEN CROSSING OTHER UTILITIES THE DUCT BANK (CONCRETE ENCASEMENT) SHALL MAINTAIN A MINIMUM OF 300mm VERTICAL CLEARANCE. INSTALL ABOVE ANY WATER LINES.
4. WHEN RUNNING PARALLEL TO ANOTHER UTILITY THE DUCT BANK SHALL BE MINIMUM 1.5m CLEAR AND IN NO CASE INSTALLED IN THE SAME EXCAVATION.

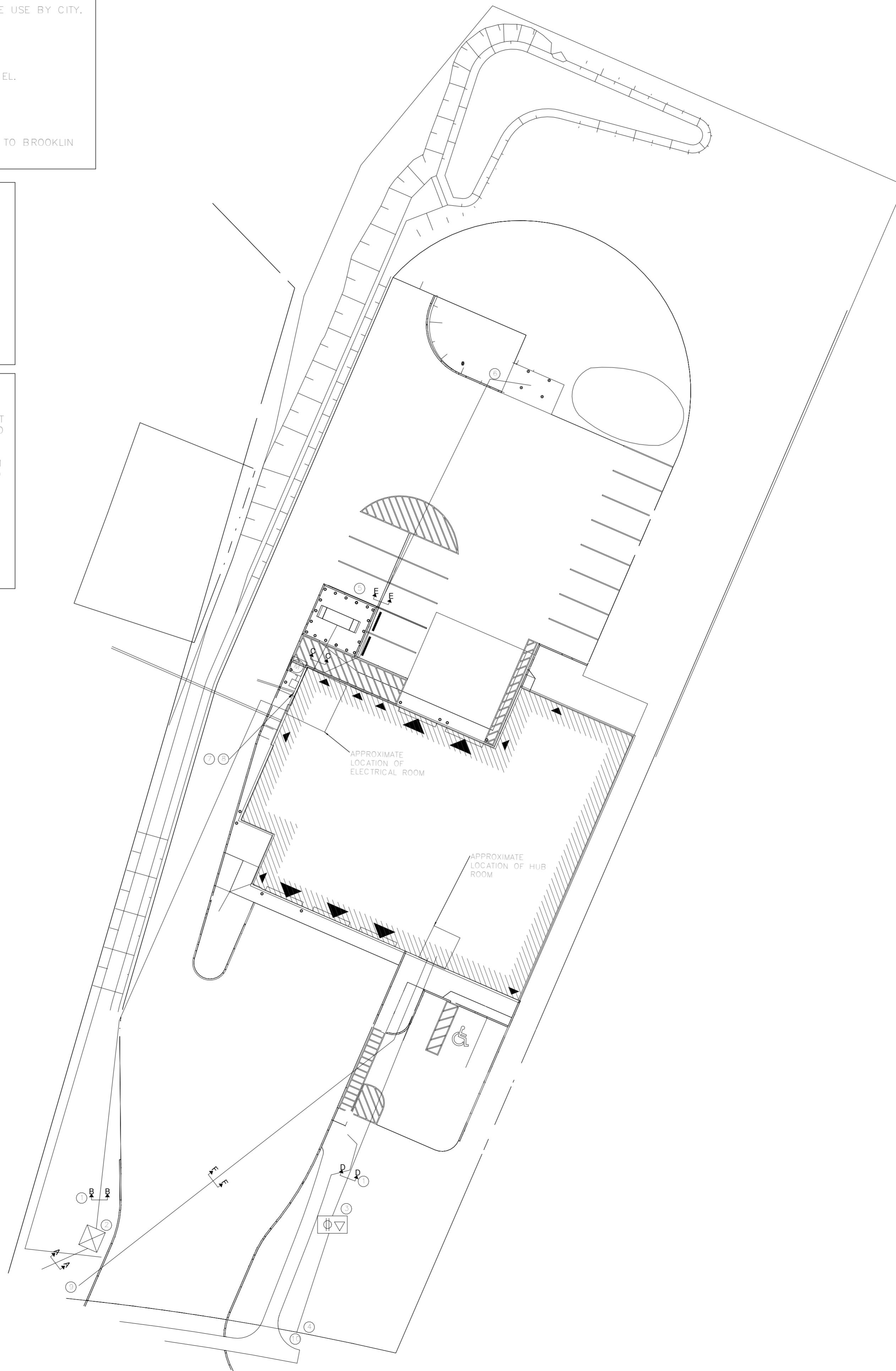
SHORT CIRCUIT CALCULATION

ASSUMPTIONS : INFINITE SHORT CIRCUIT AVAILABLE FROM UTILITY TRANSFORMER IMPEDANCE OF 2.0%

SWITCHBOARD FAULT CURRENT

AVAILABLE SHORT		37,070 A
SHORT CIRCUIT - MOTORS	= 4 * 150 =	1600 A
MULTIPLIER =		0.8904
TOTAL		37,671 A

ELECTRICAL EQUIPMENT TO BE RATED FOR 50KA-IC.



ISSUE / REVISIONS

NO.	DESCRIPTION	DATE
1	Issued for Costing	Nov.02.21
2	Issued for Site Plan Application	Jan.28.22
3	Issued for Permit	Mar.21.22
4	Issued for Building Permit	Apr.14.22
5	Issued for QA/QC	Jul.07.22
6	Issued for Tender	Jul.07.22

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Design

PROJECT No. 21-100
 START DATE October 2021

CITY OF PETERBOROUGH
FIRE STATION NO. 2

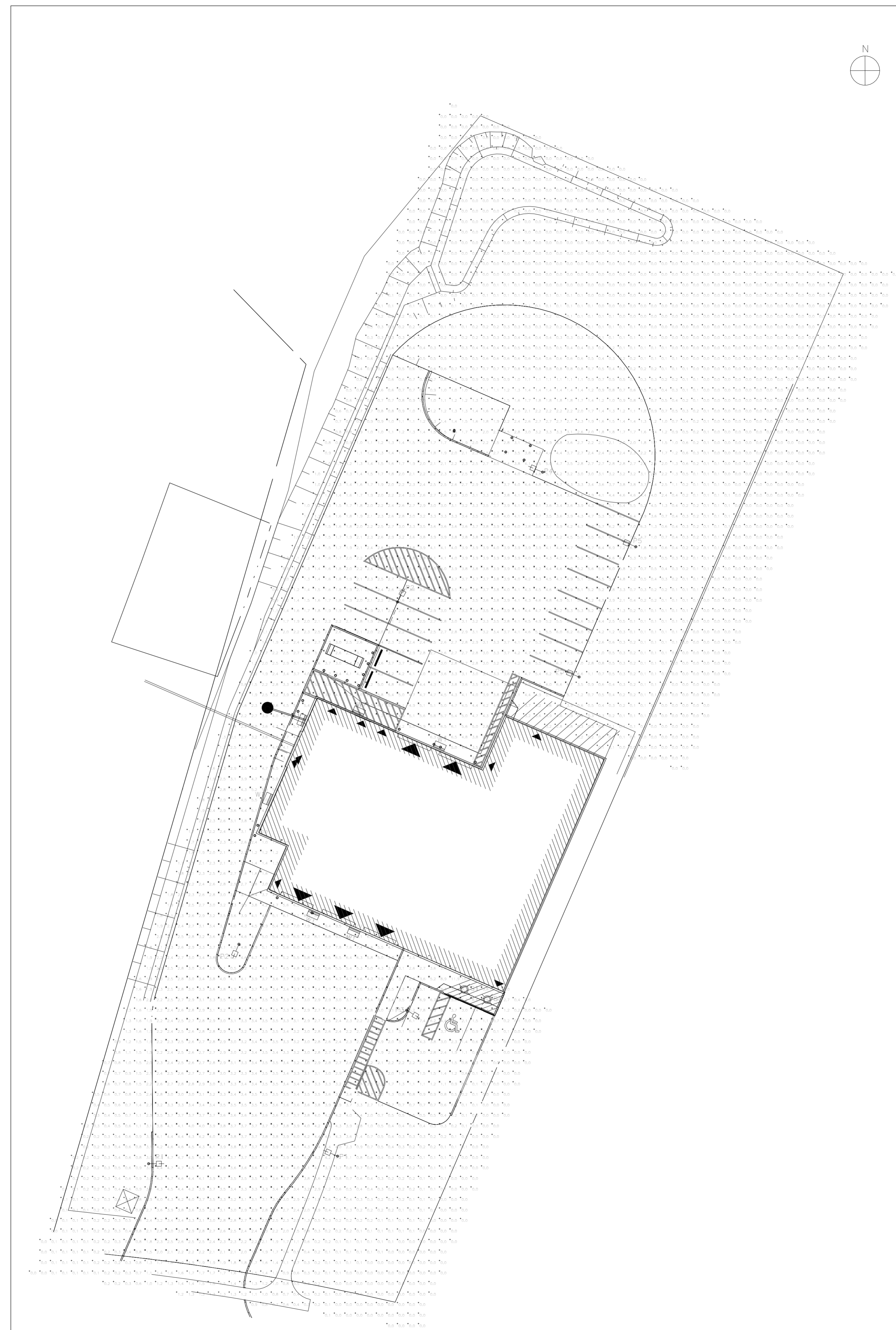
(Municipal File No. SPC 1009)
 100 Marina Boulevard, Peterborough ON

SITE PLAN - ELECTRICAL LAYOUT

LEGEND		
	<p>NEW 4" SQUARE STEEL POLE PLUS 838mm (2'9") BASE WITH SINGLE LIGHT FIXTURE BASE: ARTFORMS NEWAVEA 510R-HIGH OR EQUAL</p> <p>POLE: 6.10m (20') 4" BLACK SQUARE STEEL DESIGNED FOR 1 LIGHT @ 36LBS EA, EQUAL TO DYNAPOLE SSS4-20 (OR APPROVED EQUAL)</p> <p>LIGHT FIXTURE: POLE MOUNTED, NIGHT FRIENDLY, BLACK, 120V, 20,000 LUMENS, TYPE 3, HOUSE SIDE SHIELD, LED, GARDCO ECOFORM ECF-S-48L-1A-NW-G2-AR-3-120-IMRO-BK (OR APPROVED EQUAL)</p>	
	<p>NEW 4" SQUARE STEEL POLE PLUS 838mm (2'9") BASE WITH SINGLE LIGHT FIXTURES BASE: ARTFORMS NEWAVEA 510R-HIGH OR EQUAL</p> <p>POLE: 6.10m (20') 4" BLACK SQUARE STEEL DESIGNED FOR 1 LIGHT @ 36LBS EA, EQUAL TO DYNAPOLE SSS4-20 (OR APPROVED EQUAL)</p> <p>LIGHT FIXTURE: POLE MOUNTED, NIGHT FRIENDLY, BLACK, 120V, 27,500 LUMENS, TYPE 5, LED, GARDCO ECOFORM ECF-S-64L-1A-NW-G2-AR-5-120-IMRO-BK (OR APPROVED EQUAL)</p>	
	<p>NEW 4" SQUARE STEEL POLE PLUS 838mm (2'9") BASE WITH SINGLE LIGHT FIXTURE BASE: ARTFORMS NEWAVEA 510R-HIGH OR EQUAL</p> <p>POLE: 2.44m (8') 4" BLACK SQUARE STEEL DESIGNED FOR 1 LIGHT @ 36LBS EA, EQUAL TO DYNAPOLE SSS4-8 (OR APPROVED EQUAL)</p> <p>LIGHT FIXTURE: POLE MOUNTED, NIGHT FRIENDLY, BLACK, 120V, 5,000 LUMENS, TYPE 3, LED, GARDCO ECOFORM ECF-S-32L-365-NW-G2-AR-3-120-IMRO-BK (OR APPROVED EQUAL)</p>	
	<p>NEW 4" SQUARE STEEL POLE PLUS 838mm (2'9") BASE WITH SINGLE LIGHT FIXTURE BASE: ARTFORMS NEWAVEA 510R-HIGH OR EQUAL</p> <p>POLE: 2.44m (8') 4" BLACK SQUARE STEEL DESIGNED FOR 1 LIGHT @ 36LBS EA, EQUAL TO DYNAPOLE SSS4-8 (OR APPROVED EQUAL)</p> <p>LIGHT FIXTURE: POLE MOUNTED, NIGHT FRIENDLY, BLACK, 120V, 5,000 LUMENS, TYPE 4, LED, GARDCO ECOFORM ECF-S-32L-365-NW-G2-AR-4-120-IMRO-BK C/W (OR APPROVED EQUAL)</p>	
	<p>NEW 4" SQUARE STEEL POLE PLUS 838mm (2'9") BASE WITH SINGLE LIGHT FIXTURE BASE: ARTFORMS NEWAVEA 510R-HIGH OR EQUAL</p> <p>POLE: 6.10m (20') 4" BLACK SQUARE STEEL DESIGNED FOR 1 LIGHT @ 36LBS EA, EQUAL TO DYNAPOLE SSS4-20 (OR APPROVED EQUAL)</p> <p>LIGHT FIXTURE: POLE MOUNTED, NIGHT FRIENDLY, BLACK, 120V, 20,000 LUMENS, TYPE 4, HOUSE SIDE SHIELD, LED, GARDCO ECOFORM ECF-S-48L-1A-NW-G2-AR-4-120-IMRO-BK (OR APPROVED EQUAL)</p>	
	<p>OUTDOOR WALL MOUNTED FULL CUT-OFF "NIGHT FRIENDLY" WALLPACK, 5,500 LUMENS, TYPE 3, 4000K, LED, BLACK, 120V, EQUIPPED WITH MOTION SENSOR TO 50% OUTPUT, MOUNT AT 3.66m (12') ABOVE GRADE, SIGNIFY GARDCO 121-32L-530-NW-G3-3-UNV-BK C/W MS-A-120V (OR APPROVED EQUAL)</p>	
	<p>OUTDOOR RECESSED 7" Ø D. LED POT LIGHT, DIFFUSE LENS, 39W, 120V, 2000 LUMENS, 4000K, MOUNT IN OVERHANG. CALCULITE C7L1520DL40KWCCLP-C7L20N1 (OR APPROVED EQUAL)</p>	
<p>APPROVED ALTERNATES: PHILIPS, LITHONIA, LSI, SPAULDING, STAN PRO. ALTERNATE FIXTURE(S) MUST MATCH SPEC EXACTLY. NO ADDITIONAL COSTS TO PROJECT WILL BE ACCEPTED FOR THE USE OF ALTERNATE FIXTURE EVEN IF ENGINEER REFUSES PROPOSED ALTERNATE.</p>		
<p>POWER/CONTROL NOTES:</p> <ol style="list-style-type: none"> ALL POLES TO BE GROUNDED. ALL EXTERIOR LIGHTING TO BE CONNECTED TO TIMECLOCK FOR EXTERIOR LIGHTING CONTROL. 		

PHOTOMETRIC RESULTS:			
PARKING LOT	FRONT PARKING LOT	BACK PARKING LOT	WEST SIDE
AVERAGE = 1.8	AVERAGE = 3.5	AVERAGE = 3.4	AVERAGE = 3.2
MAX = 11.6	MAX = 11.6	MAX = 7.8	MAX = 6.0
MIN = 0.0	MIN = 0.4	MIN = 0.8	MIN = 0.9
MAX/MIN = N/A	MAX/MIN = 29.0:1	MAX/MIN = 9.8:1	MAX/MIN = 6.7:1

NOTE: ALL PHOTOMETRIC VALUES ARE IN FOOTCANDLES



1 Site Plan Lighting Layout
1 : 300

ISSUE / REVISIONS

1	Issued for design sign off	Oct.27.21
2	Issued for Costing	Nov.02.21
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4	Issued for Permit	Mar.21.22
5	Issued for Building Permit	Apr.14.22
6	Issued for QA/QC	Jun.17.22
7	Re-Issued for Site Plan Application	Jul.07.22
8	Issued for Tender	

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Design

PROJECT No. 21-100
START DATE October 2021

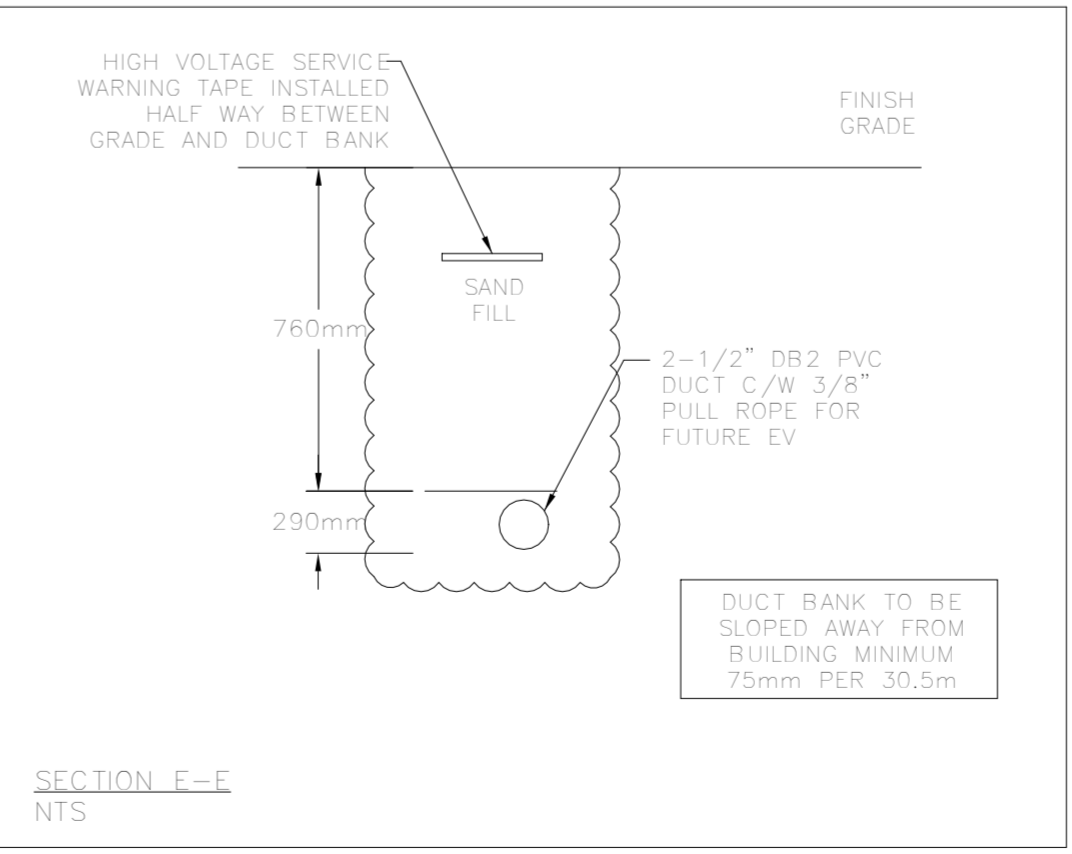
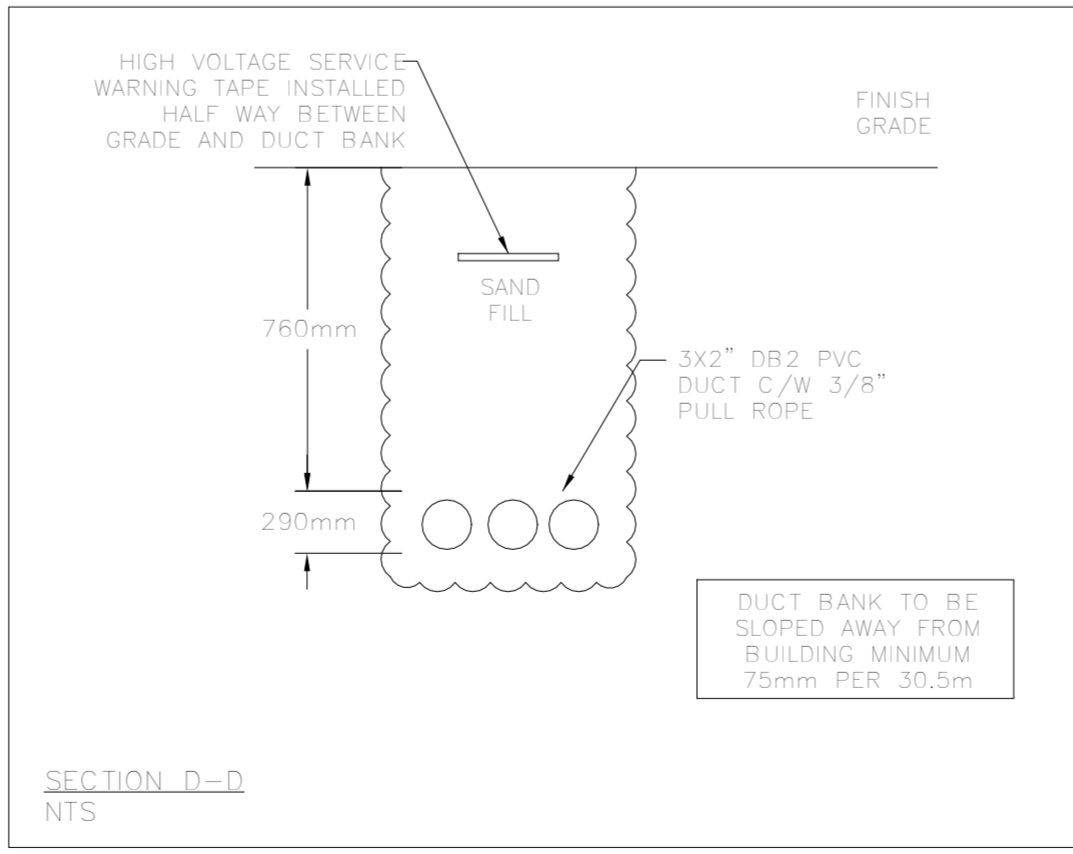
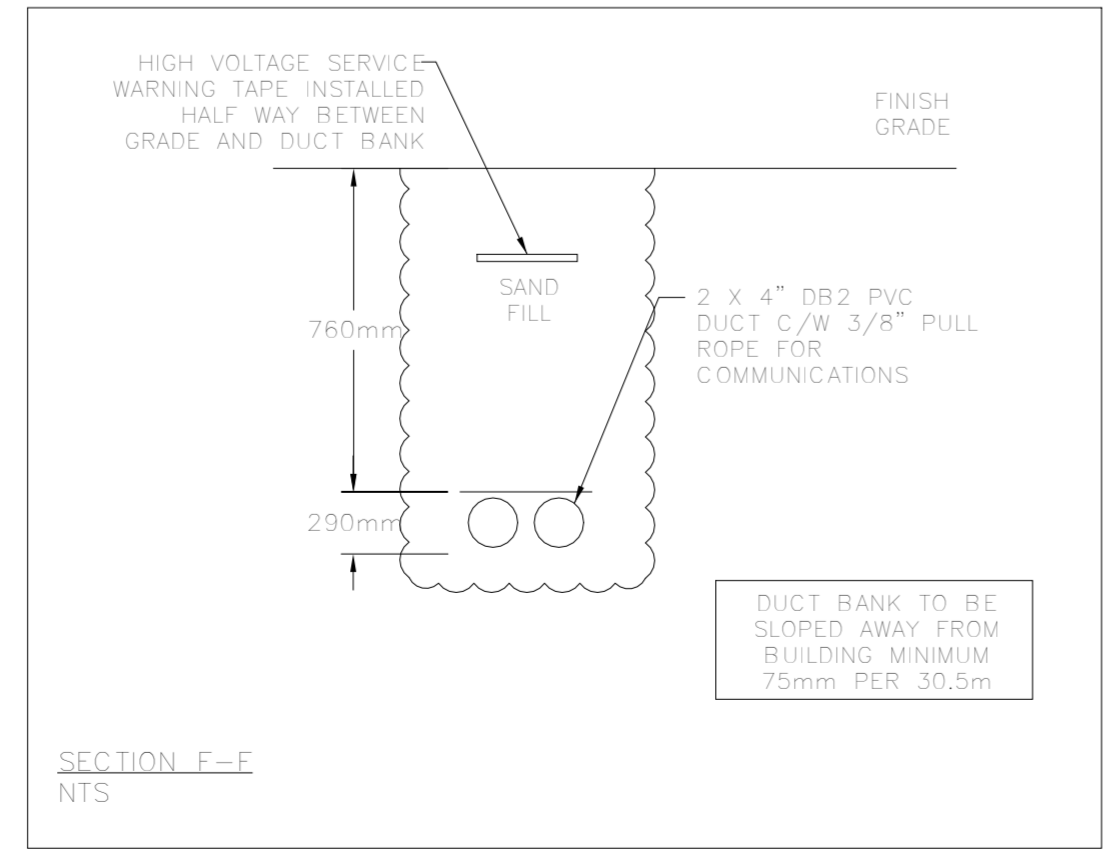
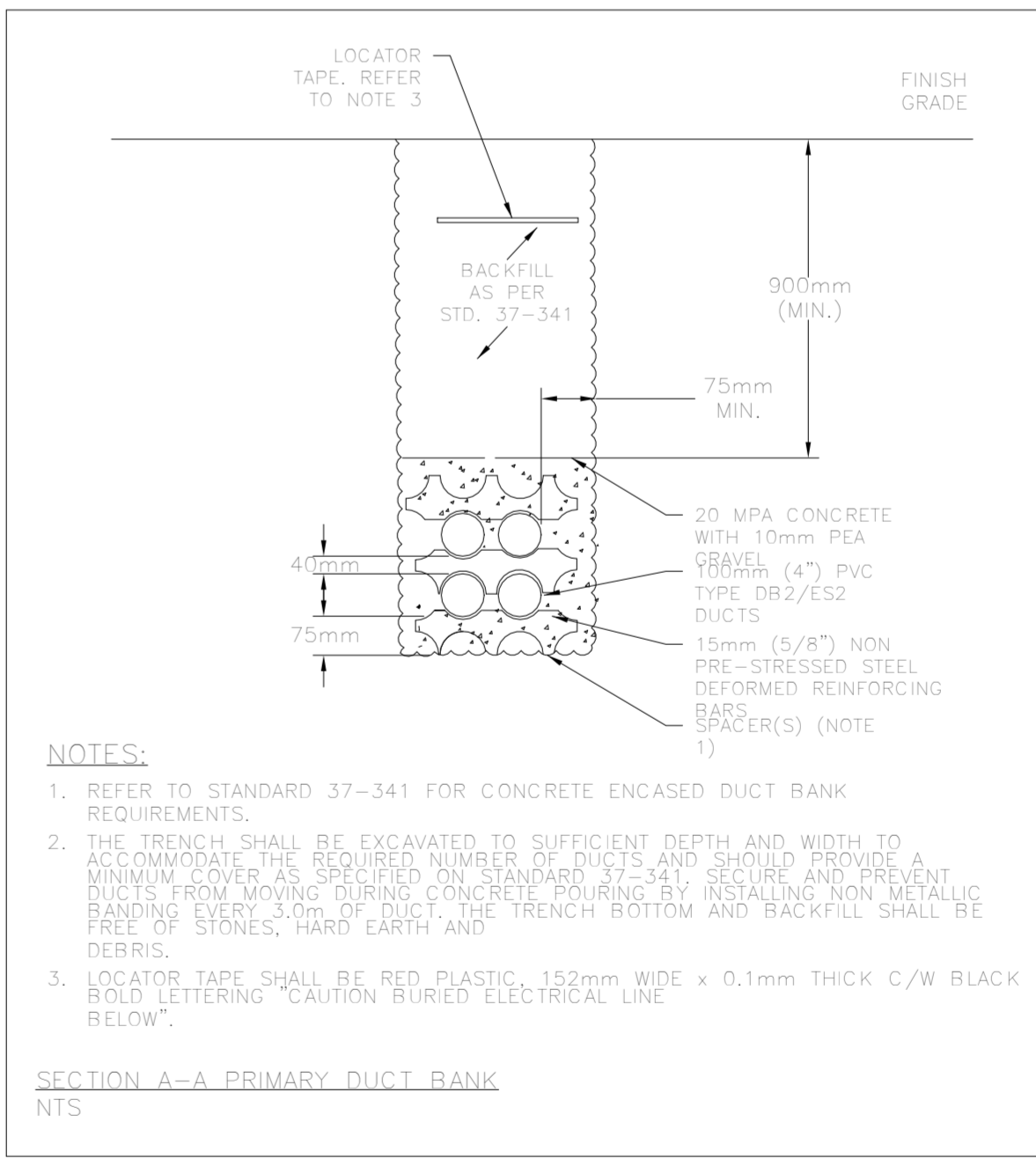
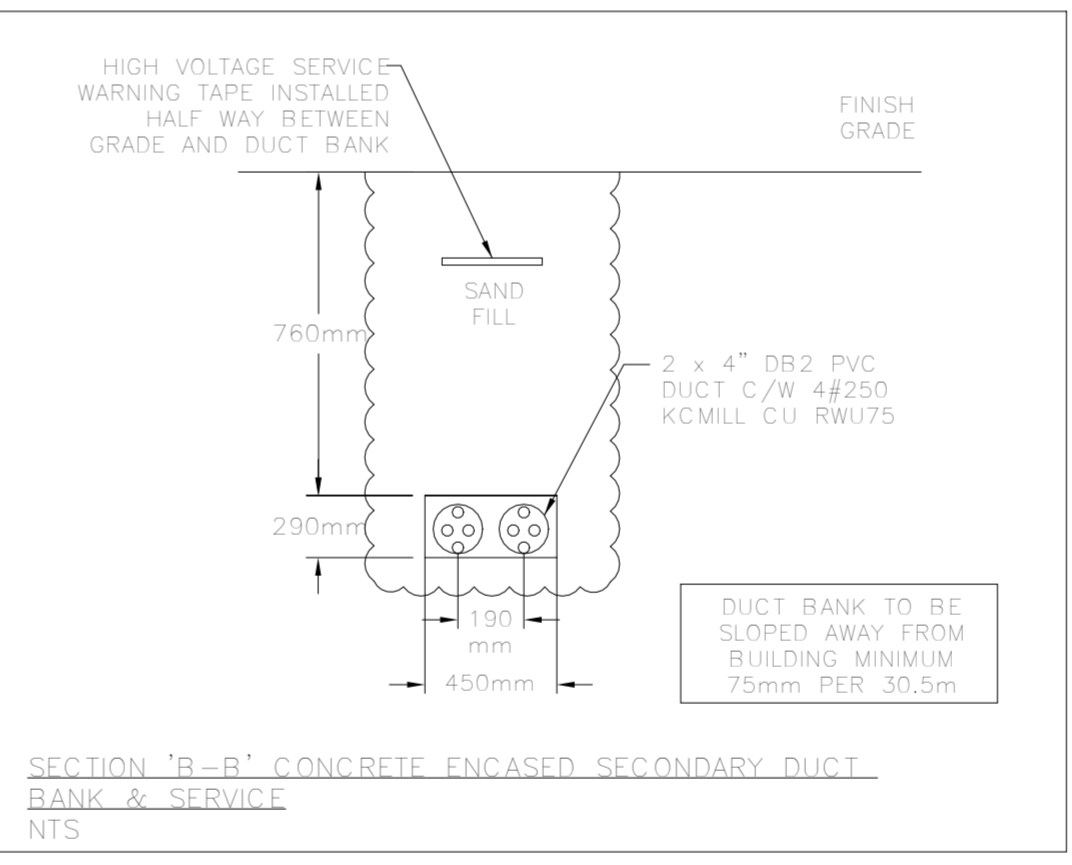
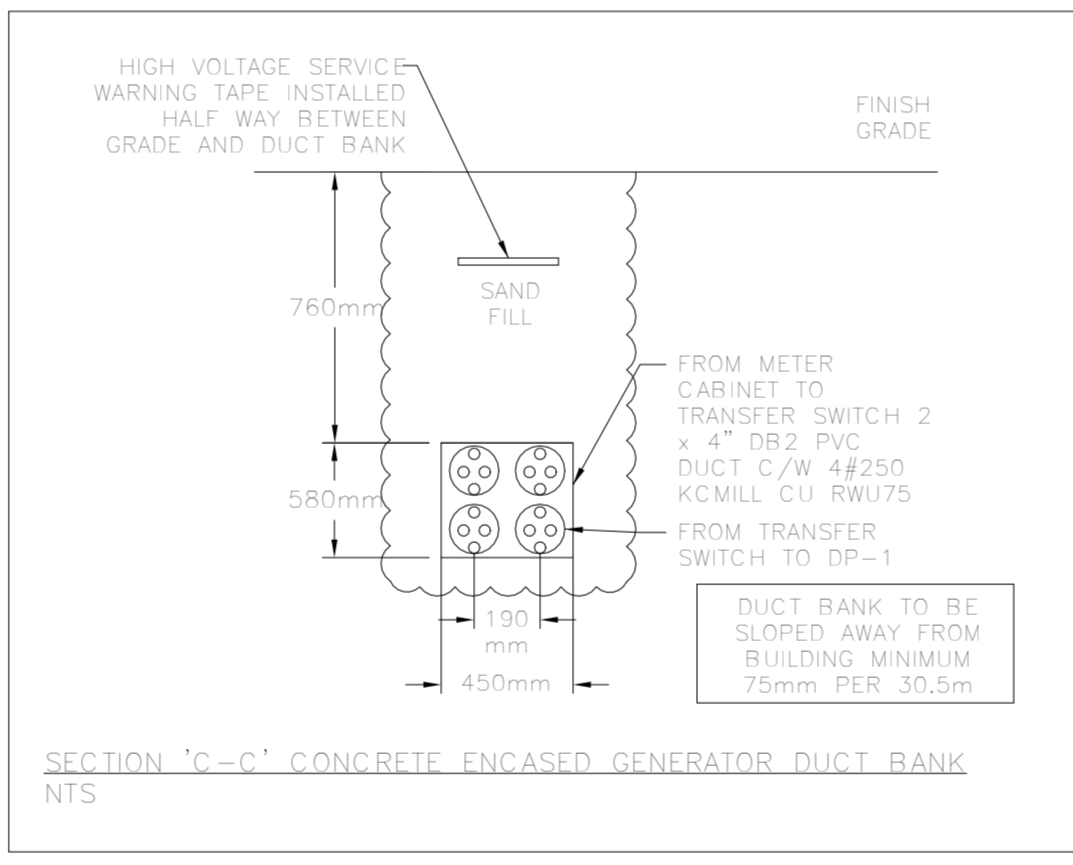
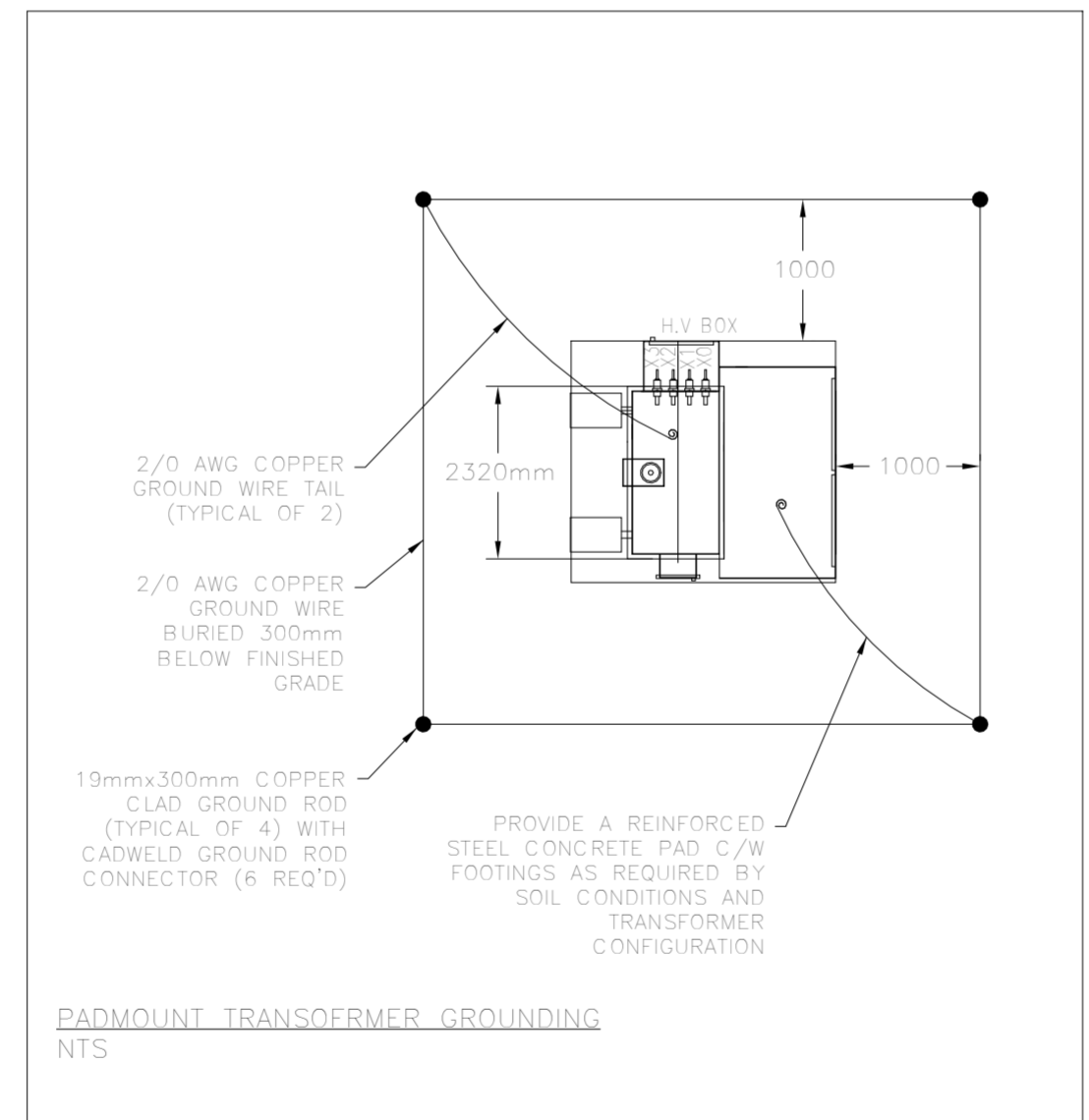
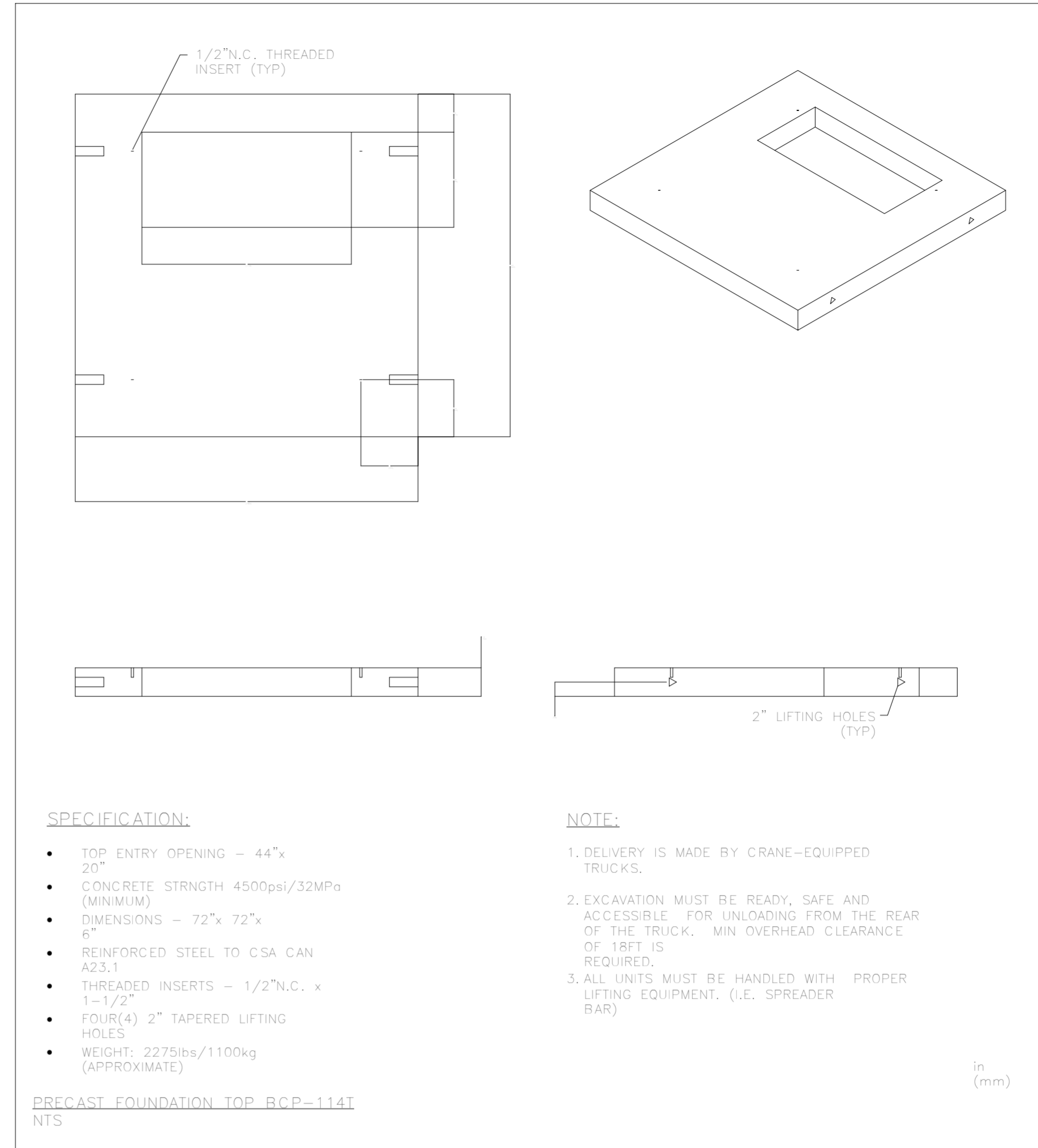
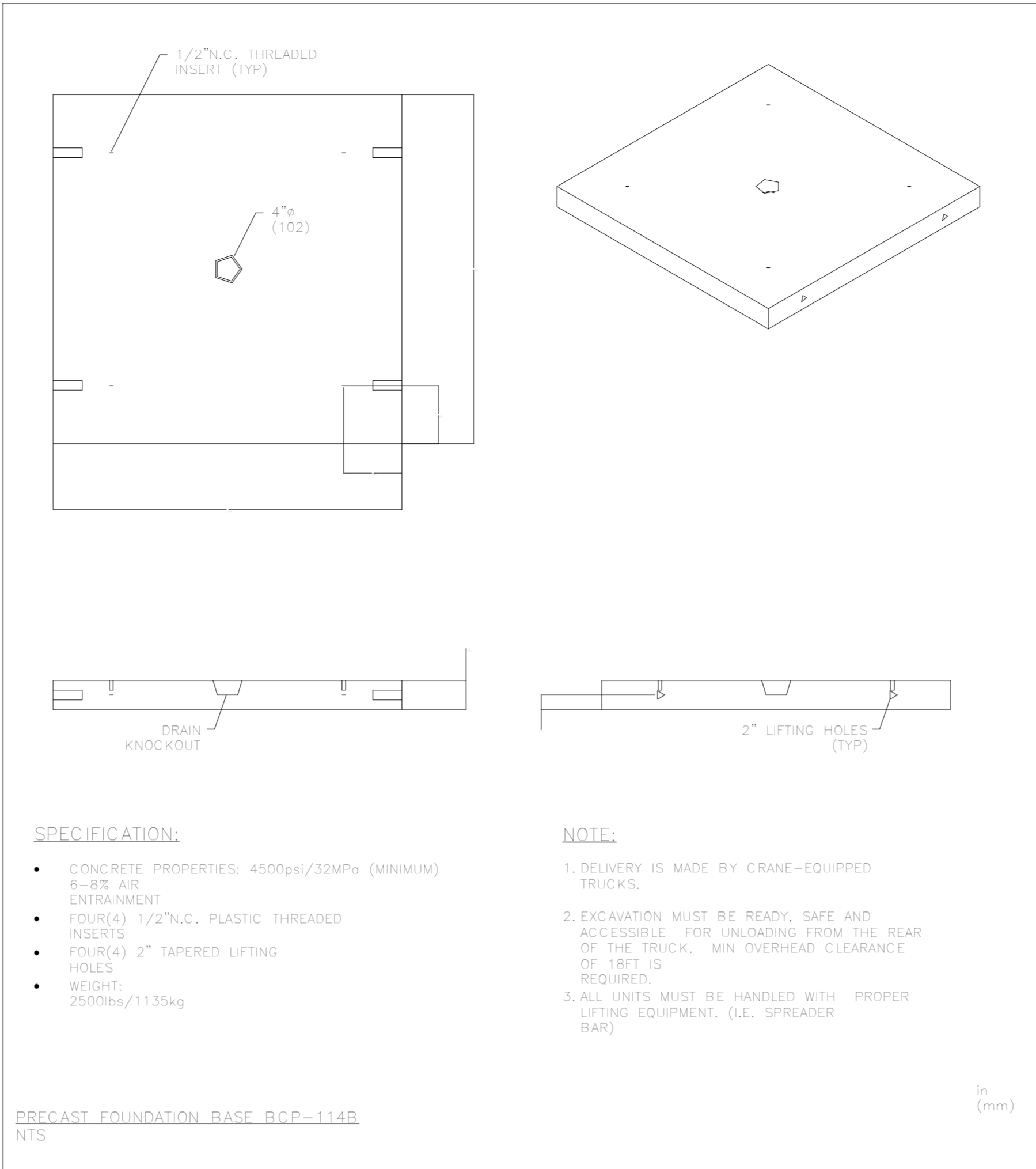
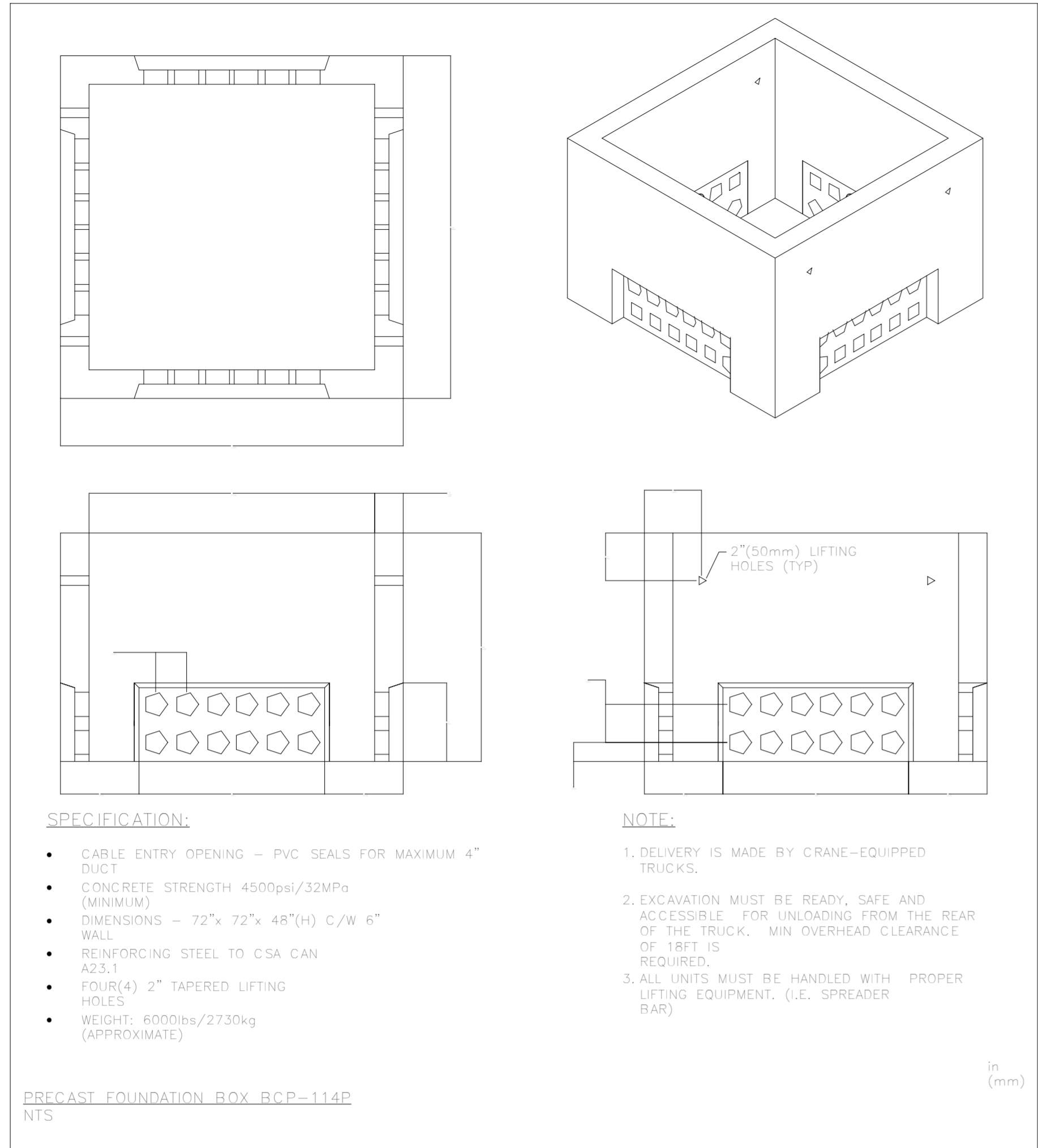
**CITY OF
PETERBOROUGH
FIRE STATION NO. 2**

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON

**SITE PLAN - LIGHTING
LAYOUT**

ISSUE / REVISIONS

1	Issued for Costing	Nov.02.21
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5	Issued for QA/QC	Jul.07.22
6	Issued for Tender	



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START DATE October 2021

CITY OF
PETERBOROUGH
FIRE STATION NO. 2

(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON

SITE PLAN -
ELECTRICAL DETAILS

ISSUE / REVISIONS

1	Issued for design sign off	Oct.27.21
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4	Issued for Building Permit	Mar.21.22
5	Issued for QA/QC	Apr.12.22
6	Issued for Building Permit Response	Apr.25.22
7	Issued for Tender	Jul.07.22

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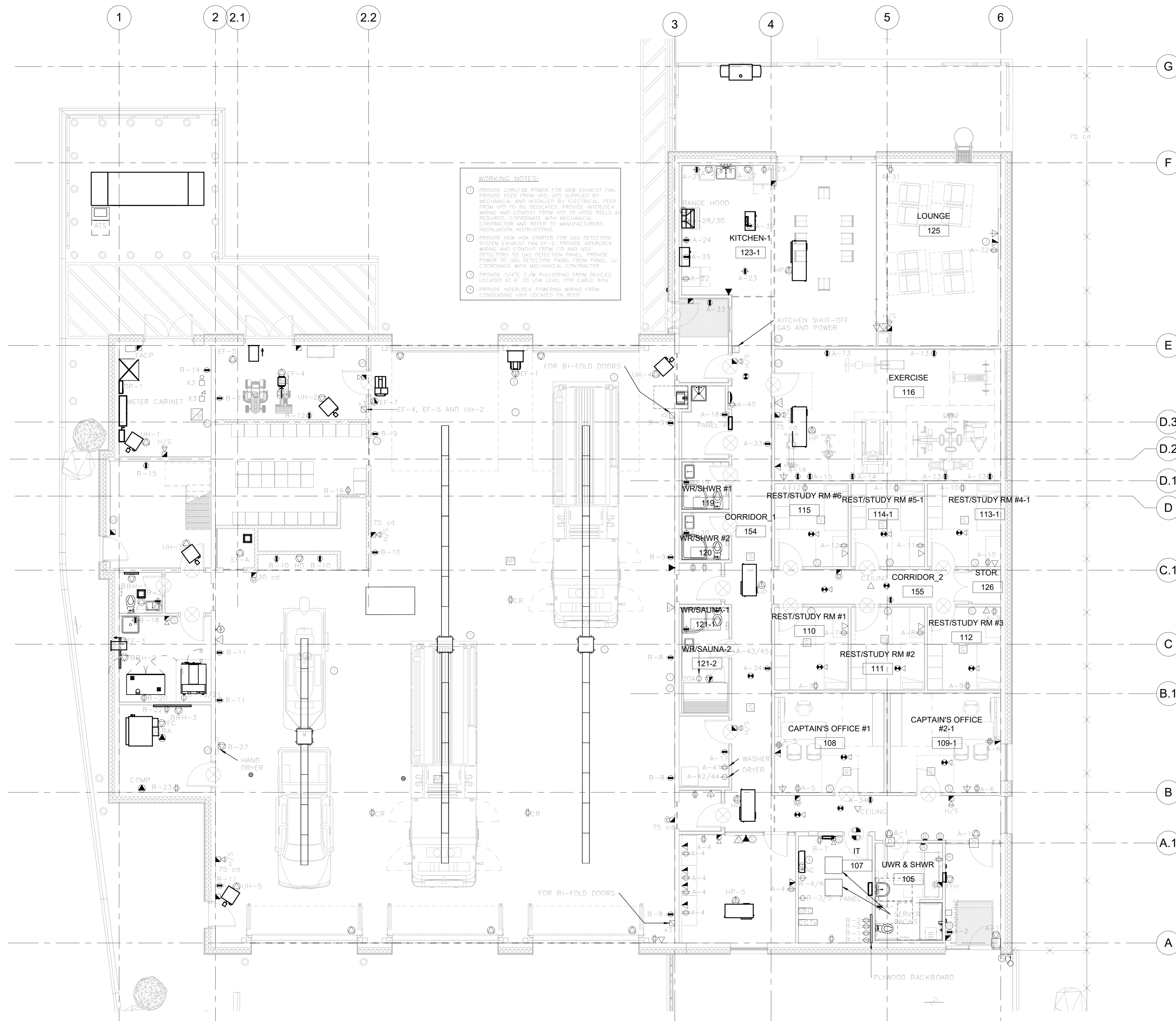
Design

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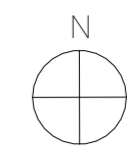
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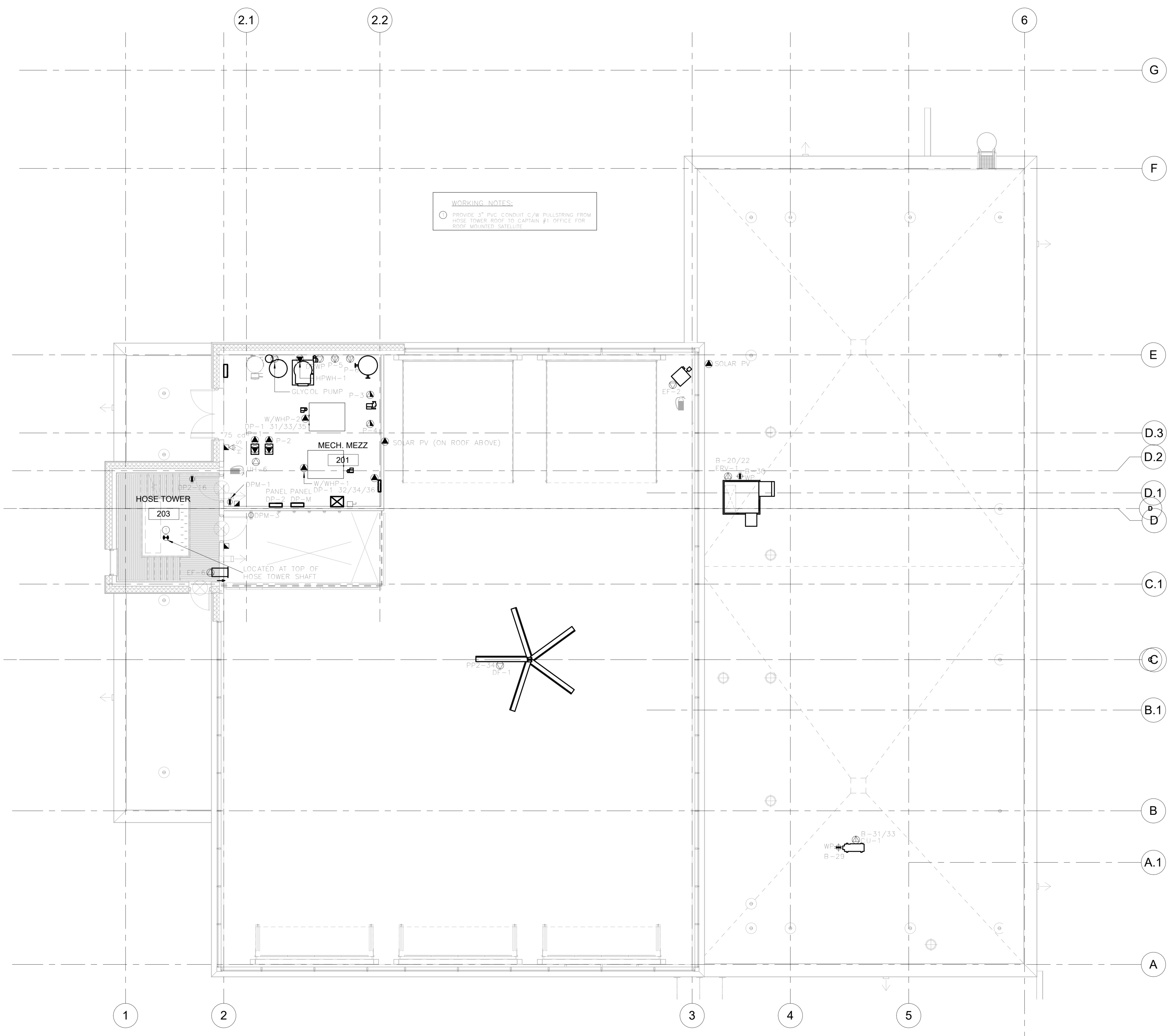
**NEW ELECTRICAL
LAYOUT - GROUND
LEVEL**



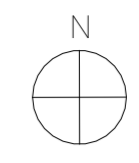
WORKING NOTES:

- PROVIDE 208V/3Ø POWER FOR NEW EXHAUST FAN. PROVIDE FEED FROM VFD. VFD SUPPLIED BY MECHANICAL AND INSTALLED BY ELECTRICAL. FEED FROM VFD TO BE DEDICATED. PROVIDE INTERLOCK WIRING AND CONDUIT FROM VFD TO HOSE REELS AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR AND REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS.
- PROVIDE NEW HOA STARTER FOR GAS DETECTION SYSTEM EXHAUST FAN EF-2. PROVIDE INTERLOCK WIRING AND CONDUIT FROM CO AND NO2 DETECTORS TO GAS DETECTION PANEL. PROVIDE POWER TO GAS DETECTION PANEL FROM PANEL "J". COORDINATE WITH MECHANICAL CONTRACTOR.
- PROVIDE 3/4" C/W PULLSTRING FROM DEVICES LOCATED AT 6" TO LOW LEVEL FOR CABLE BOX
- PROVIDE INTERLOCK POWERING WIRING FROM CONDENSING UNIT LOCATED ON ROOF





WORKING NOTES:
 ○ PROVIDE 3" PVC CONDUIT C/W PULLSTRING FROM HOSE TOWER ROOF TO CAPTAIN #1 OFFICE FOR ROOF MOUNTED SATELLITE



ISSUE / REVISIONS	
1	Issued for design sign off Oct.27.21
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6	Issued for Tender Jul.07.22

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**CITY OF
 PETERBOROUGH
 FIRE STATION NO. 2**

(Municipal File No. SPC 1009)
 100 Marina Boulevard, Peterborough ON
**NEW ELECTRICAL
 LAYOUT - MEZZANINE
 LEVEL**

ISSUE / REVISIONS

1	Issued for design sign off	Oct.27.21
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3	Issued for Permit	
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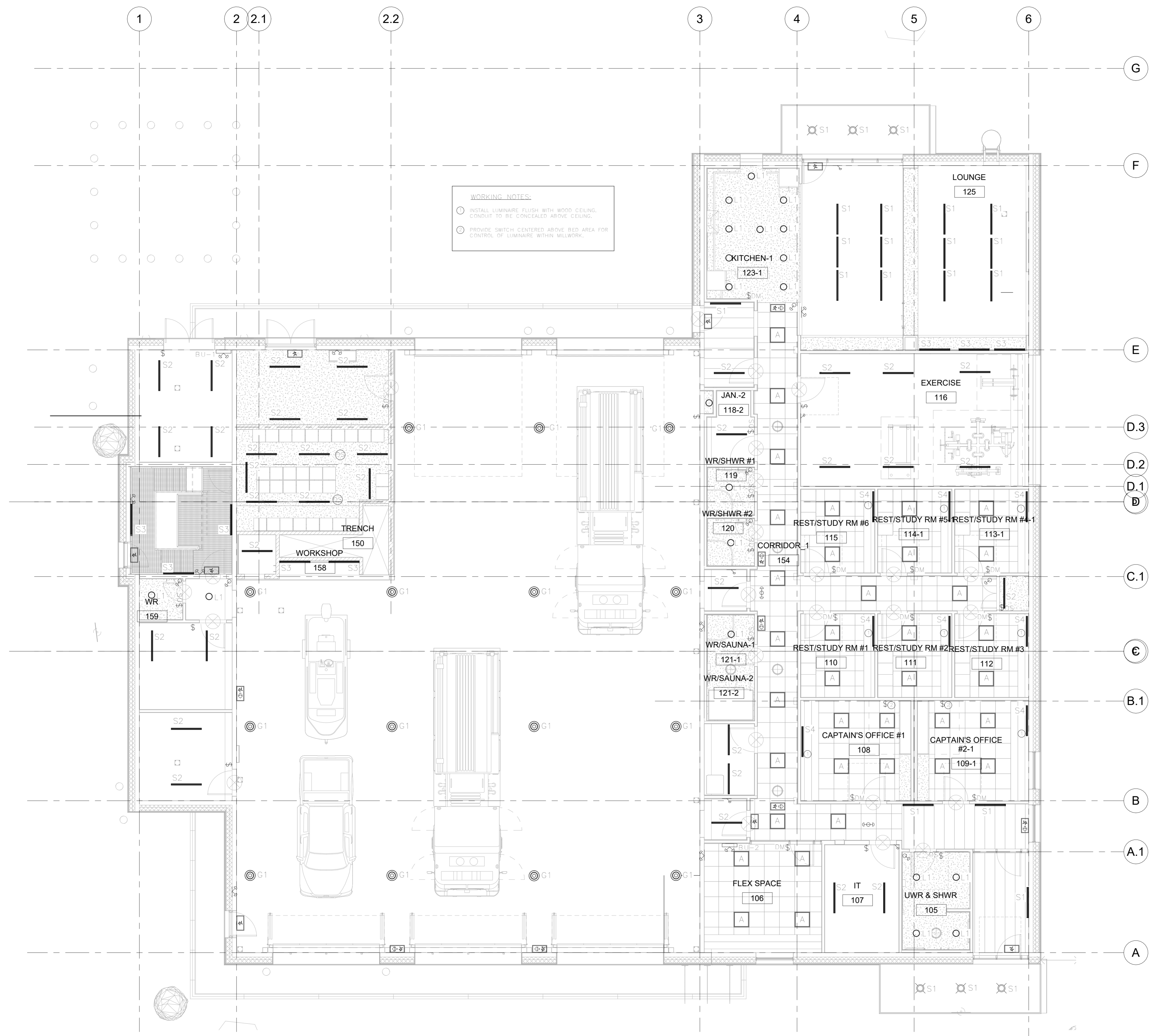
Design

PROJECT No. 21-100
START DATE October 2021

**CITY OF
PETERBOROUGH
FIRE STATION NO. 2**

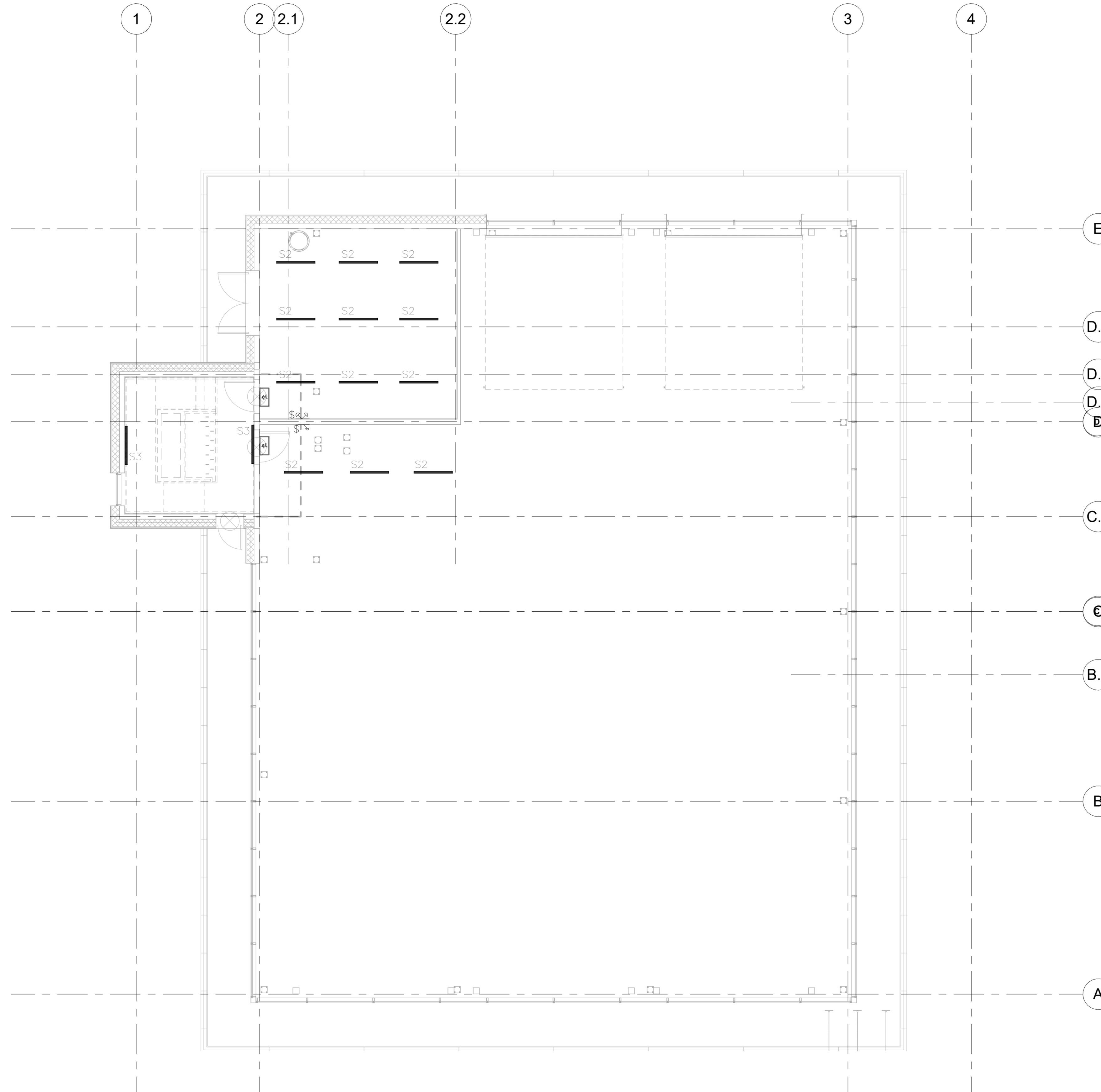
(Municipal File No. SPC 1009)
100 Marina Boulevard, Peterborough ON

**NEW LIGHTING
LAYOUT - GROUND
LEVEL**



WORKING NOTES:

- INSTALL LUMINAIRE FLUSH WITH WOOD CEILING. CONDUIT TO BE CONCEALED ABOVE CEILING.
- PROVIDE SWITCH CENTERED ABOVE RED AREA FOR CONTROL OF LUMINAIRE WITHIN MILLWORK.



ISSUE / REVISIONS

1	Issued for Costing	Nov.02.21
2	Issued for Permit	
3	Issued for Building Permit	Mar.21.22
4	Issued for Q/A/Q/C	Apr.14.22
5	Issued for Tender	Jul.07.22

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**NEW LIGHTING
 LAYOUT - MEZZANINE
 LEVEL**

E302

EMERGENCY LIGHTING SCHEDULE		
TAG	DESCRIPTION	MAKE/MODEL
## ## ## ④ ④ ④	ALL METAL EXIT SIGN, WHITE LED LIGHT SOURCE, FACTORY WHITE, GREEN RUNNING MAN WITH LEGEND PLATE AS NOTED, SINGLE FACE, UNIVERSAL MOUNTING (WALL, END OR CEILING), 120/347V AC INPUT (NORMAL), 6-24V DC INPUT (EMERGENCY).	EQUAL TO LUMACELL LS1WU.
BU-1	STEEL BATTERY UNIT, CORROSION RESISTANT, FACTORY WHITE, REMOVABLE FRONT ACCESS PANEL, LEAD ACID BATTERY, SOLID STATE PULSE-TYPE CHARGER, TEST SWITCH, LED INDICATOR LIGHTS, 120/347V INPUT WITH LINE CORD KIT, 12V OUTPUT.	EQUAL TO LUMACELL RG12S-400-2-MQM2-LD7
BU-2	STEEL BATTERY UNIT COMPLETE 2 4W LED HEADS, CORROSION RESISTANT, FACTORY WHITE, REMOVABLE FRONT ACCESS PANEL, LEAD ACID BATTERY, SOLID STATE PULSE-TYPE CHARGER, TEST SWITCH, LED INDICATOR LIGHTS, 120/347V INPUT WITH LINE CORD KIT, 12V OUTPUT.	EQUAL TO LUMACELL RG12S-200-2-MQM2-LD7
## S	WALL MOUNTED REMOTE SINGLE HEAD 12V 4W LED EMERGENCY LIGHT, INJECTION MOLDED IMPACT RESISTANT FLAME RETARDANT THERMOPLASTIC, ADJUSTABLE LENSES, SUITABLE FOR INSTALLATION ON 4" OCTAGON BOX.	EQUAL TO LUMACELL MQM-LD7
## S2	WALL MOUNTED REMOTE DUAL HEAD 12V 4W LED EMERGENCY LIGHT, INJECTION MOLDED IMPACT RESISTANT FLAME RETARDANT THERMOPLASTIC, ADJUSTABLE LENSES, SUITABLE FOR INSTALLATION ON 4" OCTAGON BOX.	EQUAL TO LUMACELL MQM2-LD7
## O	CEILING MOUNTED REMOTE SINGLE HEAD 12V 4W LED EMERGENCY LIGHT, INJECTION MOLDED IMPACT RESISTANT FLAME RETARDANT THERMOPLASTIC, ADJUSTABLE LENSES, SUITABLE FOR INSTALLATION ON 4" OCTAGON BOX.	EQUAL TO LUMACELL MQM-LD7
## O2	CEILING MOUNTED REMOTE DUAL HEAD 12V 4W LED EMERGENCY LIGHT, INJECTION MOLDED IMPACT RESISTANT FLAME RETARDANT THERMOPLASTIC, ADJUSTABLE LENSES, SUITABLE FOR INSTALLATION ON 4" OCTAGON BOX.	EQUAL TO LUMACELL MQM2-LD7
APPROVED ALTERNATES: BEGHELLI, EMERGI-LITE, AIMLITE, STAN PRO		
NOTE: 1. ## DENOTES BATTERY UNIT. 2. 'DS' DENOTES DOUBLE SIDED.		

COMMUNICATION LEGEND		
TAG	DESCRIPTION	MAKE/MODEL
▽	DATA ONLY OUTLET BOX - WALL BOX, OUTLET & 3/4" CONDUIT C/W CABLE BACK TO SERVER ROOM	
▼	VOICE ONLY OUTLET BOX - WALL BOX, OUTLET & 3/4" CONDUIT C/W CABLE BACK TO SERVER ROOM MOUNTED 5' AFF	
▽	DATA AND VOICE OUTLET BOX - WALL BOX, OUTLET & 3/4" CONDUIT C/W CABLE BACK TO SERVER ROOM	
▽	WALL MOUNTED TELEVISION VIDEO OUTLET - WALL BOX, OUTLET & 2" CONDUIT C/W PULL STRING UP WALL TO CEILING SPACE.	
◇	P.A. INTERCOM	
⊖	SECURITY CAMERA WALL MOUNTED	
AP	ACCESS POINT	
SRG	SESSION BORDER CONTROLLER	
CCTV	CCTV SYSTEM	
▽	WALL MOUNTED P.A. SPEAKER	

FIRE ALARM LEGEND	
⊕	SMOKE DETECTOR C/W INDICATION LIGHT
■	FIRE ALARM PULL STATION WITH CLEAR, TAMPER-PROOF, POLYCARBONATE SHIELD THAT EMITS AN ALARM WHEN ACCESSED
📣	FIRE ALARM HORN
📣/S cd	COMBINATION HORN/STROBE, '##' DENOTES STROBE CANDELA RATING, PROVIDE 15cd UNLESS OTHERWISE NOTED.
📣 cd	STROBE ONLY, '##' DENOTES STROBE CANDELA RATING, PROVIDE 15cd UNLESS OTHERWISE NOTED.
📣	COMBINATION SMOKE ALARM/STROBE EQUAL TO BRK7020BSLA
🔧	SPRINKLER SUPERVISORY POINT - VALVE OR ZONE
🔧	SPRINKLER ALARM POINT - FLOW SWITCH
🔧	SPRINKLER - LOSS OF POWER
FACP	FIRE ALARM CONTROL PANEL
ANNUNC	ANNUNCIATOR PANEL

LIGHT FIXTURE SCHEDULE			
TAG	DESCRIPTION	MAKE/MODEL	ALTERNATE
A	RECESSED FLAT PANEL 2x2 LED LUMINAIRE, DIFFUSE LENS, 3800 LUMENS, 4000K, 120V, 0-10V, DIMMING DRIVER	SIGNIFY FLUXPANEL-2FPZ38R840-2-DS-UNV-DIM	
S1	WALL MOUNTED 3" BIDIRECTIONAL LIGHT,LED, 4000K, 4000lm/4FT, 120V, DIMMING	SIGNIFY TRUGROOVE 2926LAANW027DEW	
S2	SUSPENDED 4' LED STRIP LIGHT, FROSTED LENS, DIMMABLE DRIVER, 4000 LUMENS, 4000K, 120V	SIGNIFY FLUXSTREAM FSS440L840-UNV-DIM	LITHONIA PEERLESS-ELECTRIC VISIONEERING CREE LIGHTING
S3	WALL MOUNTED 4' LED STRIP LIGHT, FROSTED LENS, DIMMABLE DRIVER, 3000 LUMENS, 4000K, 120V	SIGNIFY FLUXSTREAM FSS430L840-UNV-DIM	
S4	SUSPENDED 4' LED STRIP LIGHT, FROSTED LENS, DIMMABLE DRIVER, 3000 LUMENS, 4000K, 120V	SIGNIFY FLUXSTREAM FSS430L840-UNV-DIM	
O L1	4" LED INDOOR RECESSED DOWNLIGHT 80 CRI, 2000 LUMENS, 4000K, 120V, 0-10V, DIMMING WET LOCATION RATED	SIGNIFY CALCULITE 4RN-C4L20840M210U	
O L2	4" LED INDOOR RECESSED DOWNLIGHT 80 CRI, 1000 LUMENS, 4000K, 120V, 0-10V, DIMMING WET LOCATION RATED	SIGNIFY CALCULITE 4RN-C4L10840M210U	
G1	HIGH BAY LED LUMINAIRE, 14000 LUMENS, SELECTABLE COLOUR TEMPERATURE, 120V, 0-10V DIMMING	SIGNIFY DAYBRITE CFI HCY14LRCT-UN3-DIM	
\$ S3	LIGHT SWITCH - '3' DENOTES 3-WAY	HUBBELL 1200 SERIES (120V) HUBBELL 18200 SERIES (347V)	
\$ DM	LIGHT SWITCH WITH SLIDE DIMMER, ON/OFF SWITCH, 0-10V LED RATED, 120V	LEVITON RF DECORA 25057-30Z (347V)	HUBBELL LEGRAND COOPER
\$ OS	SWITCH PLATE MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR WITH BUTTON, WHITE, 120V	LEVITON ODS10-IDW	HUBBELL LEGRAND ACUITY CONTROLS
OS	CEILING MOUNTED DUAL TECHNOLOGY LOW PROFILE OCCUPANCY SENSOR 24V, INCLUDE POWER PACKS AS REQUIRED	LEVITON OSC10-MDW	
'NL' DENOTES LUMINAIRE TO BE TIED INTO A NIGHT LIGHTING CIRCUIT AND REMAIN UNSWITCHED			

POWER LEGEND		
TAG	DESCRIPTION	MAKE/MODEL
⊕	15A 120V 1PH GROUNDED DUPLEX RECEPTACLE C/W STAINLESS STEEL COVER PLATE	HUBBELL BR15WHI OR EQUAL
⊕	20A 120V 1PH GROUNDED DUPLEX RECEPTACLE C/W STAINLESS STEEL COVER PLATE	HUBBELL BR20WHI OR EQUAL
⊕	15A 120V 1PH GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE C/W STAINLESS STEEL COVER PLATE	HUBBELL GF15WLA OR EQUAL
⊕	208V 3PH GROUNDED RECEPTACLE CONFIGURATION TO SUIT EQUIPMENT	HUBBELL HBL OR EQUAL
⊕CR	RECEPTACLE CORD REEL C/W 15A 120V 1PH GROUNDED DUPLEX RECEPTACLE	AREO-MOTIVE CORD REEL #358C-R C/W 15-5R
⊕	120V 1PH GROUNDED DIRECT EQUIPMENT CONNECTION	
⊕	208V 1PH GROUNDED DIRECT EQUIPMENT CONNECTION	
⊕	208V 3PH GROUNDED DIRECT EQUIPMENT CONNECTION	
⊕	575V 3PH GROUNDED DIRECT EQUIPMENT CONNECTION	
D	POWER DOOR OPERATOR BY GENERAL CONTRACTOR, PROVIDE 120V POWER TO DOOR OPERATOR AND INTERLOCK WIRING BETWEEN OPERATOR AND WALL PUSH BUTTON	
📣	EMERGENCY AUDIBLE/VISUAL DEVICE, SUPPLIED AND INSTALLED BY GENERAL WITH DOOR HARDWARE, PROVIDE BACK BOX CONDUIT C/W PULL STRING TO DOOR CONTROLLER IN CEILING SPACE.	
⊕	"PUSH TO OPEN" FOR BARRIER FREE OR REGULAR DOOR CONTROL BY GENERAL CONTRACTOR, PROVIDE CONCEALED CONDUIT UP WALL TO DOOR OPERATOR C/W INTERLOCK WIRING TO DOOR OPERATOR.	
⊕	DISCONNECT SWITCH 'WP' DENOTES WEATHERPROOF	
⊕	EXISTING PANEL	
⊕	TRANSFORMER	

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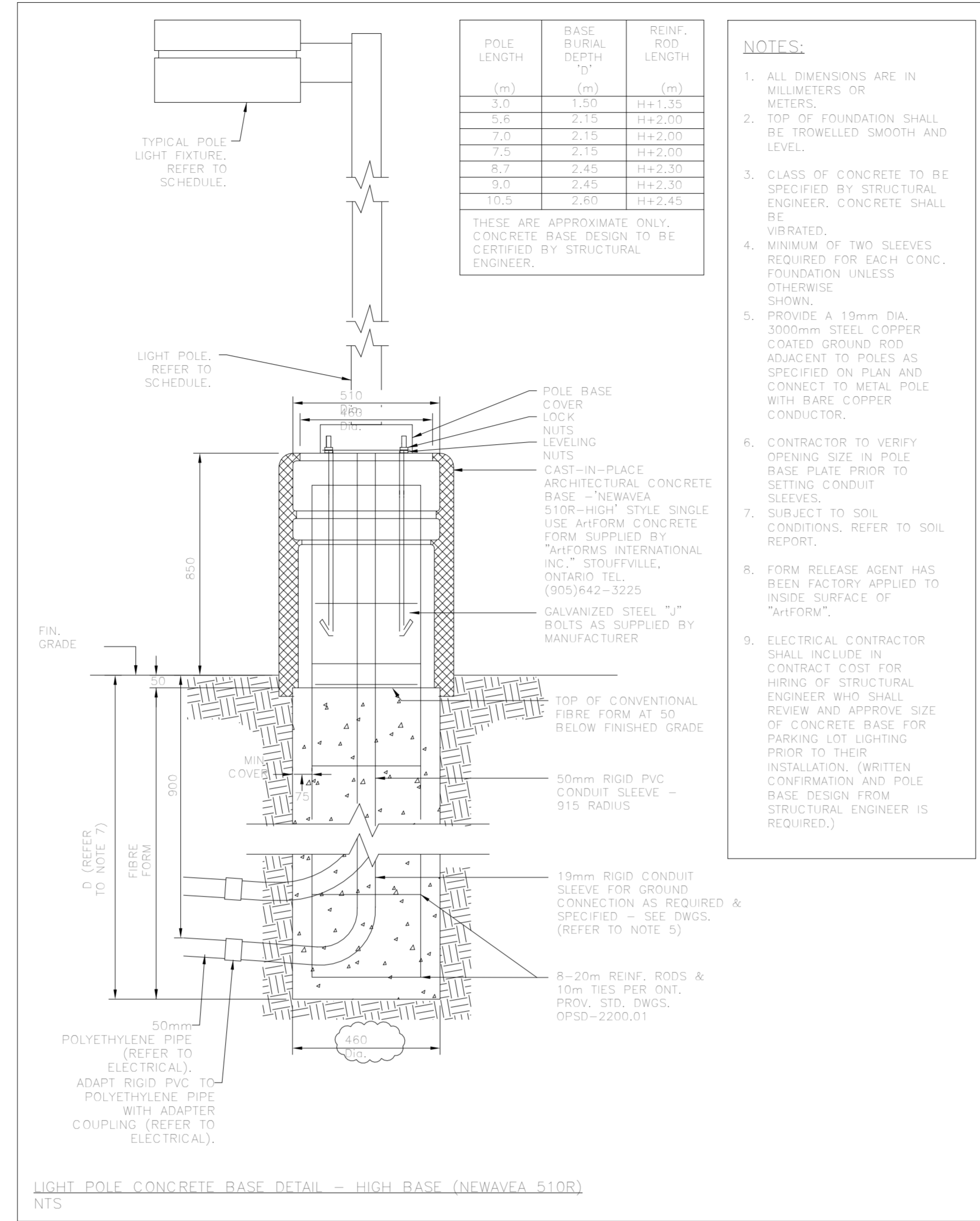
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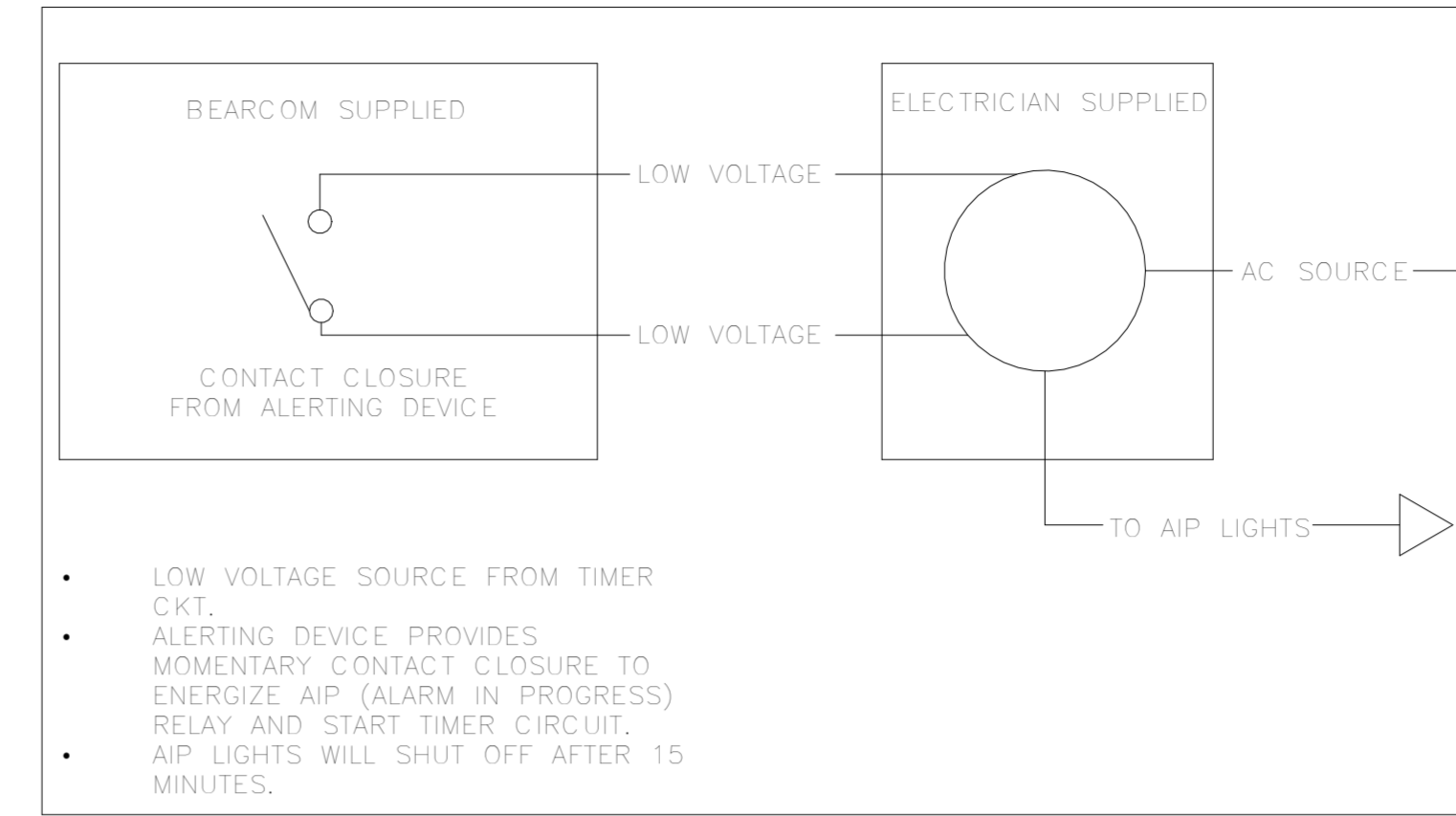
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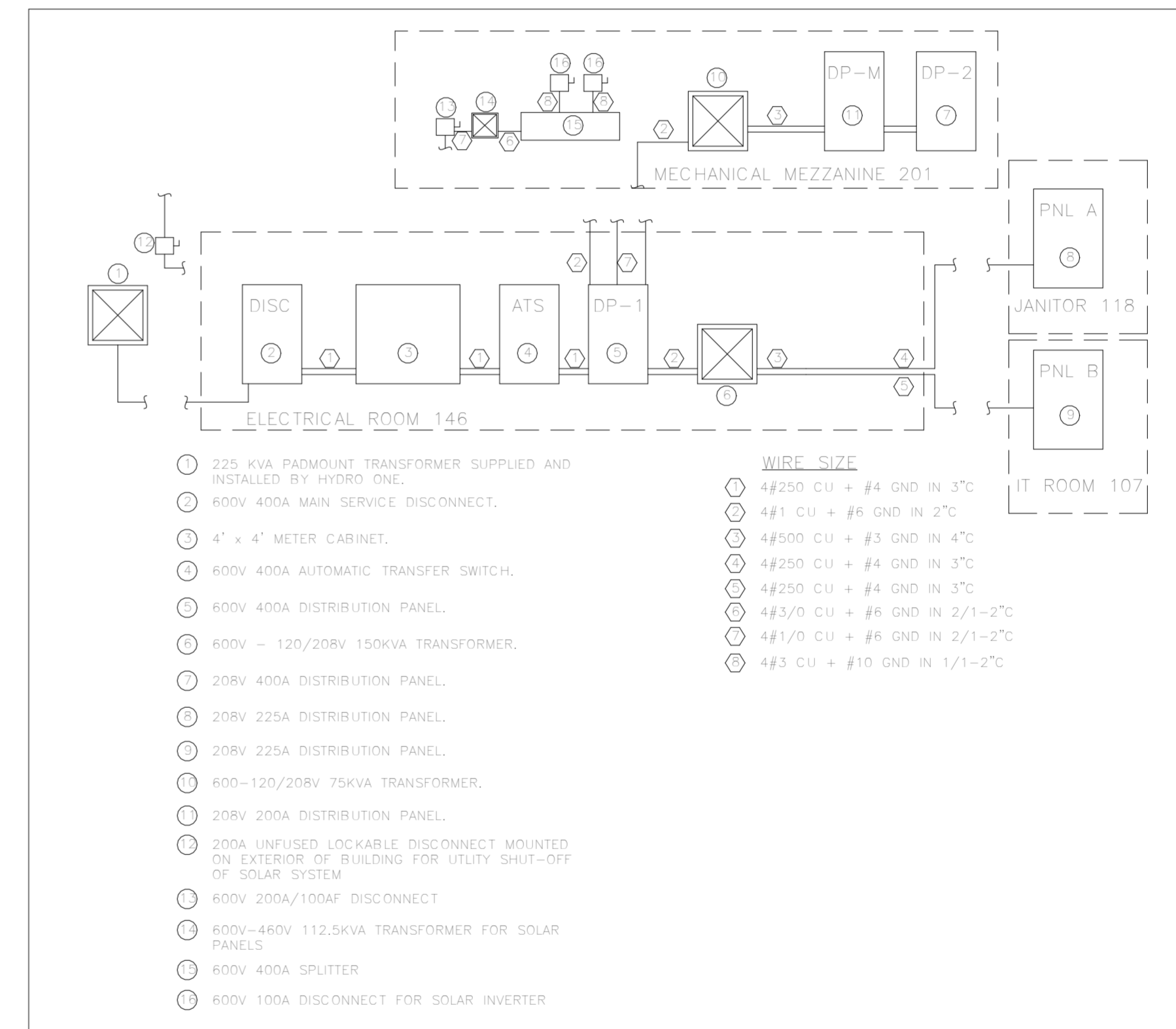
LEGENDS



3 LIGHT POLE DETAIL
N.T.S.



1 Lighting Control Detail
N.T.S.



2 Single Line Diagram
N.T.S.

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DETAILS