

CONTRACT DRAWINGS
CONTRACT NO. 2023-4010
BOOK 2 OF 2

EAST REGION

GENERAL NOTES

GENERAL

- ALL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE ONTARIO BUILDING CODE, ONT. REG. 33212.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE LEGISLATION AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS.
- THE CONTRACTOR SHALL AS PART OF HIS WORK CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO SAFEGUARD AND PROTECT ALL EXISTING STRUCTURES, SERVICES AND UTILITIES WHICH MAY BE AFFECTED BY THE WORK OF THIS CONTRACT.
- ALL PIPES AND CASTINGS THROUGH WALLS AND SLABS TO BE CAST IN PLACE, EXCEPT WHERE SHOWN OTHERWISE. ALL PIPE PENETRATIONS NOT CAST IN PLACE SHALL BE GROUTED AND SEALED WITH NON-SHRINK GROUT.
- FOR EQUIPMENT AND PIPE SUPPORTS NOT SHOWN ON STRUCTURAL DRAWINGS REFER TO MECHANICAL DRAWINGS.
- DO NOT SCALE FROM THE DRAWINGS.

EXCAVATION AND BACKFILL

- ALL FOUNDATIONS SHALL BEAR ON UNDISTURBED NATIVE SOIL, OR ENGINEERED FILL HAVING A BEARING CAPACITY AS REQUIRED BELOW:
 - VEHICLE MAINTENANCE GARAGE - SLS = 225 kPa, ULS = 575 kPa
 - MATERIAL STORAGE BUILDING - SLS = 225 kPa, ULS = 750 kPa
 - AUXILIARY STORAGE BUILDING - SLS = 275 kPa, ULS = 375 kPa
- ALL EXCAVATIONS SHALL BE COMPLETELY DEWATERED DURING CONSTRUCTION TO PREVENT UPLIFT OF THE STRUCTURE. KEEP EXCAVATION DEWATERED TO, AT LEAST, 300mm BELOW LOWEST ELEVATION OF EXCAVATION.
- PLACE ALL CONCRETE IN THE DRY.
- CONTINUOUSLY PROTECT THE BOTTOM OF THE EXCAVATION AND ALL FOUNDATIONS ON THE GROUND FROM DAMAGE DUE TO FROST AND GROUNDWATER PRESSURE.
- REFER TO GEOTECHNICAL INVESTIGATION REPORT: FOUNDATION INVESTIGATION AND DESIGN REPORT FENELON FALLS MAINTENANCE PATROL YARD, KAWARTHA LAKES, ONTARIO, AGREEMENT No. 4021-E-0018, G.W.P. No. 4044-22-00, FILE: 36708, SUBMITTED BY: THURBER ENGINEERING LTD.
- ALL GRANULAR A TO BE IN ACCORDANCE WITH OPSS PROV 1010.
- ALL GRANULAR B TO BE TYPE II IN ACCORDANCE WITH OPSS PROV 1010.
- ALL GRANULAR MATERIALS TO BE VIRGIN QUARRIED MATERIAL.
- BACKFILL SHALL BE PLACED SIMULTANEOUSLY ON EACH SIDE OF THE FOUNDATION WALLS KEEPING THE HEIGHT OF THE BACKFILL APPROXIMATELY THE SAME. AT NO TIME SHALL THE DIFFERENCE IN ELEVATION BE GREATER THAN 300 mm.

CONCRETE

- CLASS OF CONCRETE: 35MPa UNLESS NOTED OTHERWISE.
- PROVIDE 20mm CHAMFER AT ALL EXPOSED EDGES.

REINFORCEMENT

- REINFORCING STEEL SHALL BE GRADE 400W.
- ALL REINFORCING STEEL SHALL BE SHOP FABRICATED TO INCLUDE HOOKS AND BENDS. ALL LAP SPLICES SHALL BE CLASS B TENSION LAP SPLICES UNLESS NOTED OTHERWISE.
- ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWING SS12-1, UNLESS NOTED OTHERWISE.
- WELODED WIRE FABRIC SHALL CONFORM TO ASTM A1064/A1064M-18A. PROVIDE IN FLAT SHEETS ONLY.

MASONRY WALLS

- PERFORM MASONRY WORK IN ACCORDANCE WITH CSA S304-14(2019).
- MASONRY MORTAR SHALL BE TYPE 'S' TO CSA A179-14 AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 12.5 MPa.
- CONCRETE MASONRY UNITS SHALL BE STANDARD WEIGHT CONFORMING TO CSA A165-SERIES 04. THE COMPRESSIVE STRENGTH OF BLOCK SHALL BE 20 MPa MINIMUM.
- FILL CORES OF MASONRY WITH REINFORCING SOLID WITH 25 MPa COURSE GROUT.

STRUCTURAL STEEL

- PERFORM STRUCTURAL STEEL WORK IN ACCORDANCE WITH CAN/CSA-S16-19 (TYP).
- ALL FABRICATION AND WELDING SHALL CONFORM TO CSA W59-13 AND BE PERFORMED BY A COMPANY CERTIFIED BY AND WELDERS QUALIFIED IN ACCORDANCE WITH CSA W47-1:09 FOR DIVISION 1 OR DIVISION 2.1.
- FILLET WELDS SHALL NOT BE LESS THAN 6mm.
- WELDING ELECTRODES TO BE 'BASIC' LOW HYDROGEN TYPE TO CSA W48-14, COMPATIBLE WITH STEEL TO BE WELDED.
- STRUCTURAL SHAPES TO CSA G40.21-13, GRADE 350W.
- STRUCTURAL PLATES TO CSA G40.21-13, GRADE 300W (MINIMUM).
- HOLLOW STRUCTURAL SECTIONS TO CAN/CSA G40.21-13, GRADE 350W, CLASS C.
- HIGH TENSILE BOLTS, NUTS AND WASHERS TO ASTM F3125/F3125M-23 (HOT DIP GALVANIZED).
- ANCHOR RODS TO ASTM F1554 GRADE 36, NUTS TO A563 AND WASHERS TO ASTM F436. ALL ANCHOR RODS, NUTS AND WASHERS TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.
- ALL STRUCTURAL STEEL CONNECTIONS SHALL BE DESIGNED BY THE STEEL FABRICATOR. SUBMIT SHOP DRAWINGS, SEALED AND SIGNED BY A PROFESSIONAL ENGINEER TO THE CONSTRUCTION ADMINISTRATOR PRIOR TO FABRICATION.
- ALL STRUCTURAL STEEL TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH CAN/CSA G164-M92.

STEEL DECK

- PERFORM STEEL DECK WORK IN ACCORDANCE WITH CSA S136-16 AND THE CANADIAN SHEET STEEL BUILDING INSTITUTE STANDARDS (CSSBI) FOR STEEL ROOF DECK.
- DESIGN DECK IN ACCORDANCE WITH REQUIREMENTS OF THE ONTARIO BUILDING CODE TO SAFELY SUPPORT LOADINGS SHOWN OR IMPLIED.
- STEEL ROOF DECK SHALL BE ZINC-COATED STEEL DECK CONFORMING TO ASTM A653M SQ, GRADE 230.

WOOD

- DESIGN, FABRICATION, ERECTION AND OTHER CONSTRUCTION PRACTICES SHALL CONFORM TO CSA-O86, CAN/CSA-O122 AND THE ONTARIO BUILDING CODE, WHICHEVER IS MORE STRINGENT.
- SUPPLY AND INSTALL TEMPORARY BRACING AS NECESSARY TO PROVIDE STABILITY FOR THE STRUCTURE AS A WHOLE. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL WALLS FLOORS AND ROOFS HAVE BEEN FULLY CONSTRUCTED AND SHEATHED. CONSTRUCTOR IS FULLY RESPONSIBLE TO THE DESIGN, SUPPLY AND INSTALLATION OF ALL TEMPORARY BRACING.
- ALL WOOD MEMBERS TO BE SPF NO. 110/2 OR BETTER.
- NAILS TO CONFORM TO CSA B111. ALL NAILS TO BE HOT DIP GALVANIZED.
- MOISTURE CONTENT OF LUMBER AND TIMBER SHALL NOT EXCEED 19% (BY WEIGHT) AT THE TIME OF INSTALLATION. ALL LUMBER AND TIMBER TO BE ADEQUATELY PROTECTED DURING ALL STAGES OF CONSTRUCTION TO ENSURE THE MOISTURE CONTENT STAYS BELOW THE 19% LIMIT.
- CUT ALL COMPONENTS NEAT AND SQUARE PROVIDING FULL CONTACT WITH ADJACENT MEMBERS.
- WOOD IN CONTACT WITH CONCRETE, MASONRY OR WHERE MOISTURE MAY OCCUR SHALL BE TREATED TO CSA O80 (USE CATEGORY UC3.2). USE INCISED LUMBER FOR TREATMENT. FIELD TREATMENT OF CUT ENDS IS REQUIRED FOR ALL TREATED MEMBERS. USE PRESERVATIVE IN ACCORDANCE WITH CSA O80 AND COMPATIBLE WITH THE PRESSURE PRESERVATIVE TREATMENT.
- PROVIDE SILL GASKET FOR ALL BOTTOM STUD WOOD PLATES IN CONTACT WITH CONCRETE.
- ALL PLYWOOD TO BE EXTERIOR GRADE DOUGLAS FIR PLYWOOD TO CSA O121 OR CANADIAN SOFTWOOD PLYWOOD TO CSA O151.
- STAGGER ALL JOINTS IN ROOF AND WALL PLYWOOD SHEATHING.
- UNLESS OTHERWISE NOTED ALL ROOF AND WALL PLYWOOD SHEATHING SHALL BE FASTENED WITH 100, 76mm NAILS AT 75mm O/C AT EDGES AND 150mm O/C AT INTERIOR SUPPORTS.
- PROVIDE BLOCKING AT ALL PLYWOOD SHEATHING PANEL EDGES. BLOCKING TO MATCH DIMENSIONS OF STUD MEMBERS.

MISCELLANEOUS

- RIGID INSULATION: HIGHLOAD 40 BY DOW CHEMICAL CANADA INC. OR CONTRACT ADMINISTRATOR APPROVED EQUAL.

DESIGN DATA

CLIMATIC DATA: FENELON FALLS, ONTARIO
LOADING CRITERIA (NORMAL IMPORTANCE):

SNOW:	Ss	= 2.3	kPa
	Sr	= 0.4	kPa
	Is	= 1.0	(ULS), 0.90 (SLS)
WIND LOADING:	Q (1/50)	= 0.36	kPa
	Iw	= 1.0	(ULS), 0.75 (SLS)
SEISMIC: SITE CLASS - "D" (METRIC)	Sa (0.2)	= 0.121	
	Sa (0.5)	= 0.086	
	Sa (1.0)	= 0.052	
	Sa (2.0)	= 0.027	
	Sa (5.0)	= 0.007	
	Sa (10.0)	= 0.003	
	PGA	= 0.072	
	PGV	= 0.068	

TENSION DEVELOPMENT LENGTHS

MINIMUM UNLESS OTHERWISE ON DRAWINGS	
BAR SIZE	35 MPa CONCRETE
10M	370mm
15M	520mm
20M	800mm
25M	1050mm
30M	1200mm
35M	1450mm

REINFORCING BAR LAP LENGTHS

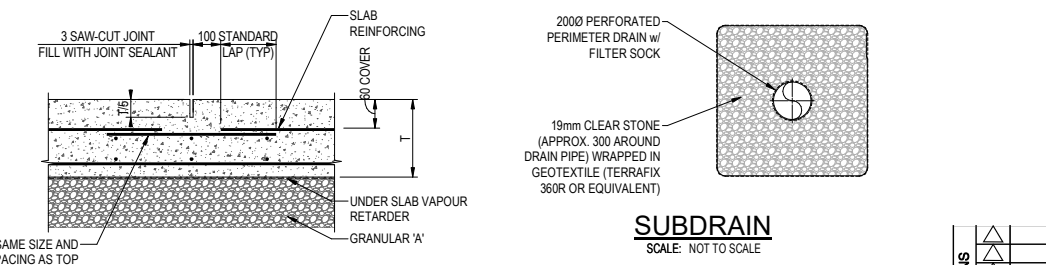
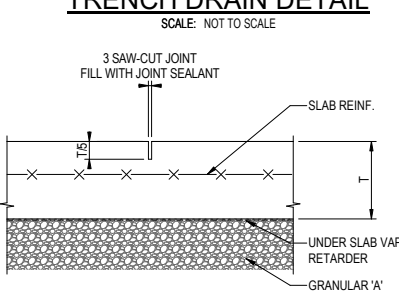
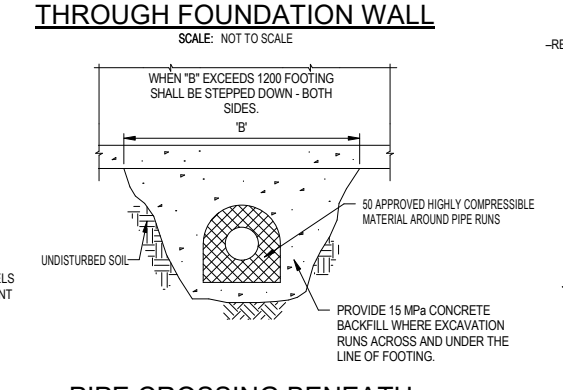
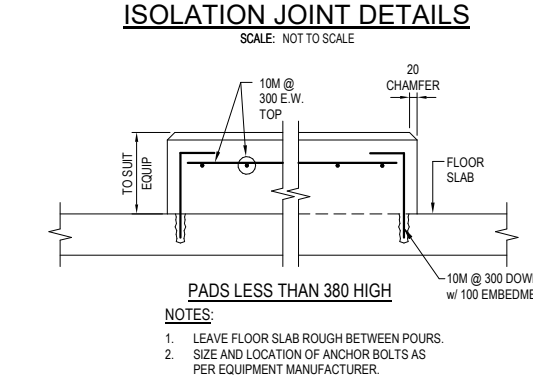
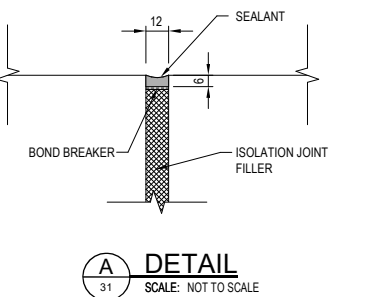
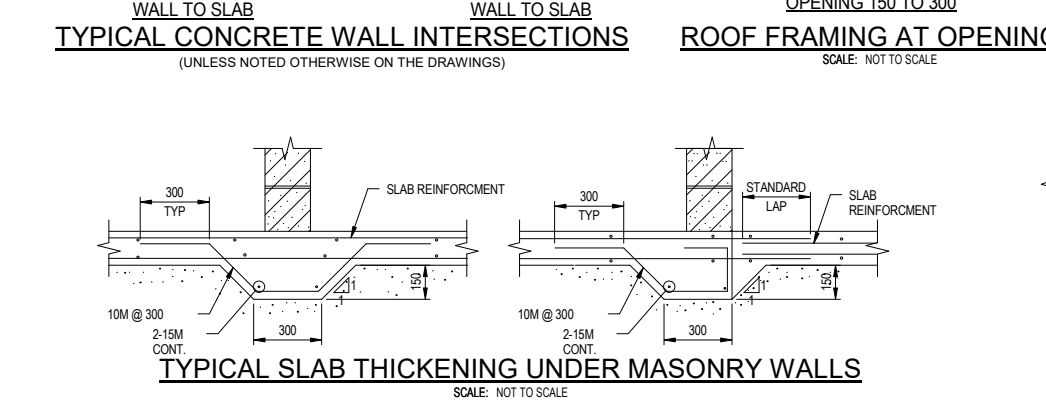
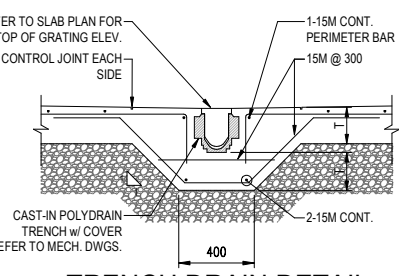
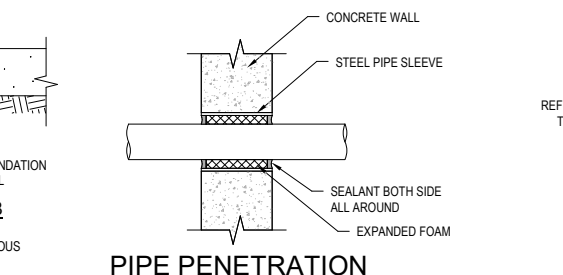
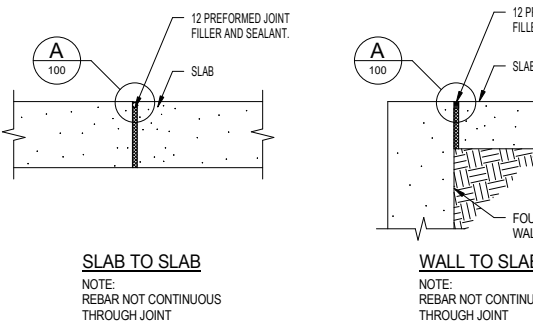
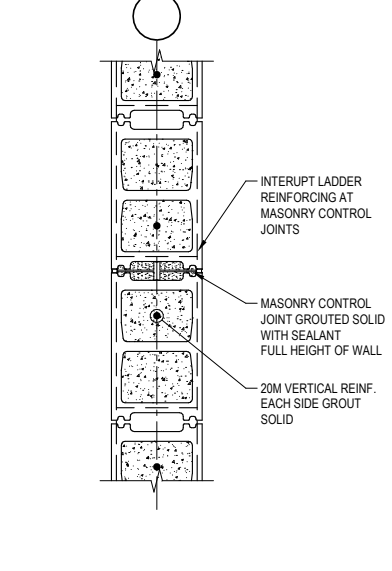
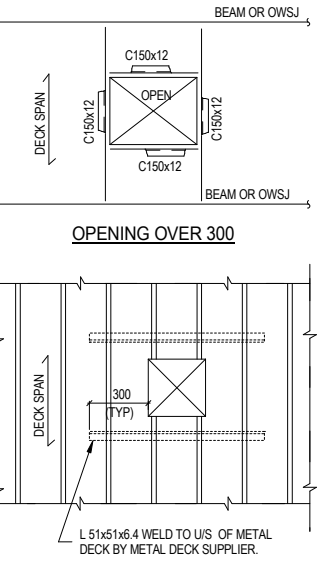
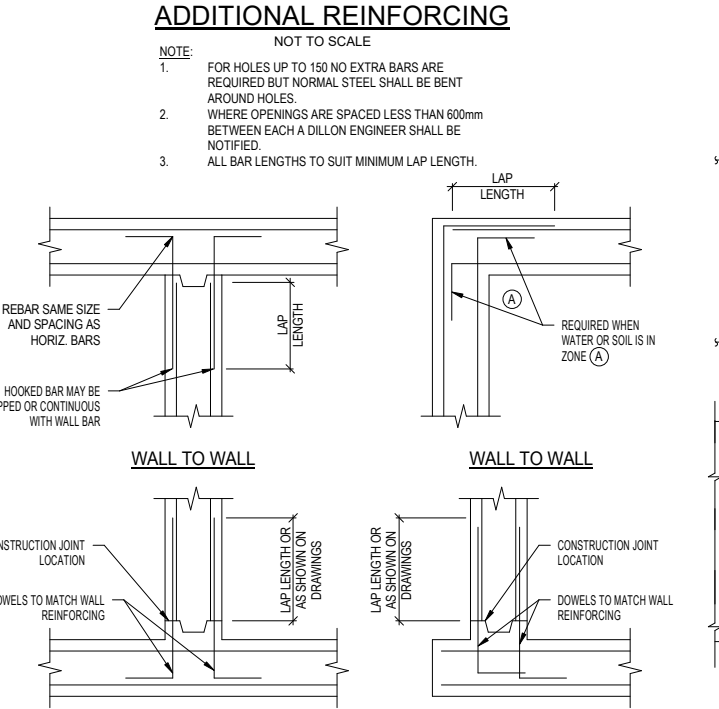
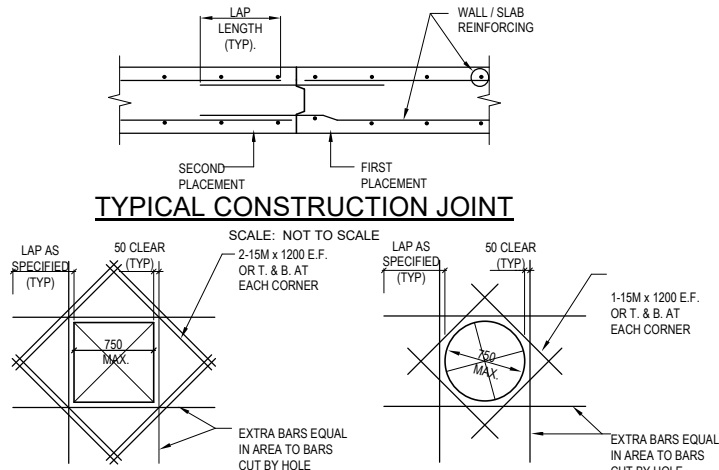
MINIMUM UNLESS OTHERWISE ON DRAWINGS	
BAR SIZE	35MPa CONCRETE
10M	500mm
15M	700mm
20M	1050mm
25M	1350mm
30M	1550mm
35M	1850mm

MASONRY CLASS B LAP SPLICE

MINIMUM UNLESS OTHERWISE ON DRAWINGS	
BAR SIZE	LENGTH
10M	650
15M	900
20M	1100
25M	1800
30M	2100

TABLE OF CONCRETE COVER

UNLESS NOTED OTHERWISE ON DRAWINGS	
BAR LOCATION	REINFORCING COVER
FOOTING, SLABS, OR WALLS, WHERE CONCRETE IS CAST AGAINST EARTH	75mm
CONCRETE EXPOSED TO EARTH, LIQUID, WEATHER, HUMID ENVIRONMENTS OR CAST AGAINST WORKING SLAB	50mm
ALL OTHER LOCATIONS	50mm



CONT No 2023-4010
GWP No 4044-22-00

STRUCTURAL

FENELON FALLS MPY
GENERAL NOTES, STANDARD DETAILS

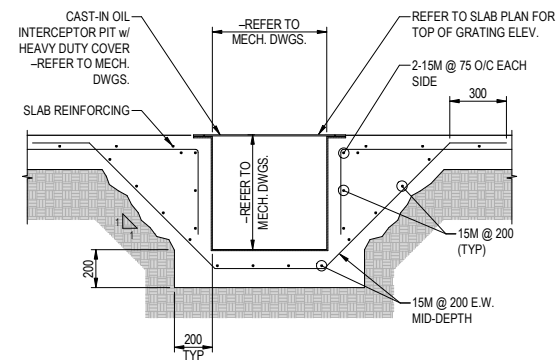
DILLON CONSULTING

LICENSED PROFESSIONAL ENGINEER
Oct. 21/24
B. W. DAVIS
100136021
PROVINCE OF ONTARIO

SHEET 31

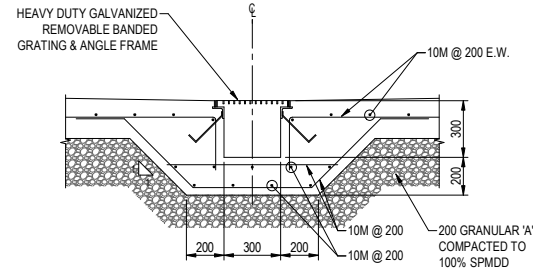
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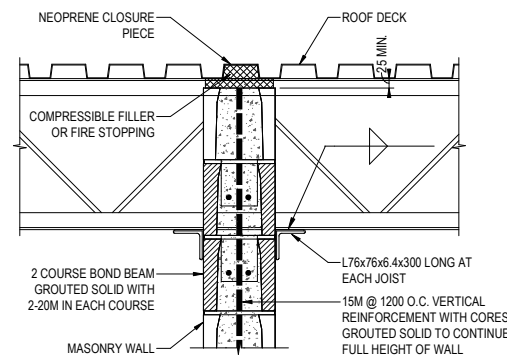
OIL INTERCEPTOR PIT DETAIL

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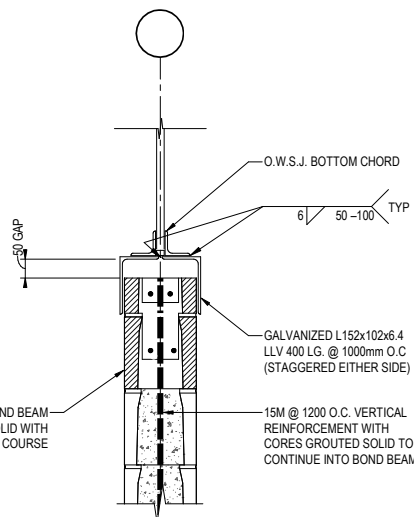
WINTER LIQUID STORAGE AREA SUMP PIT DETAIL

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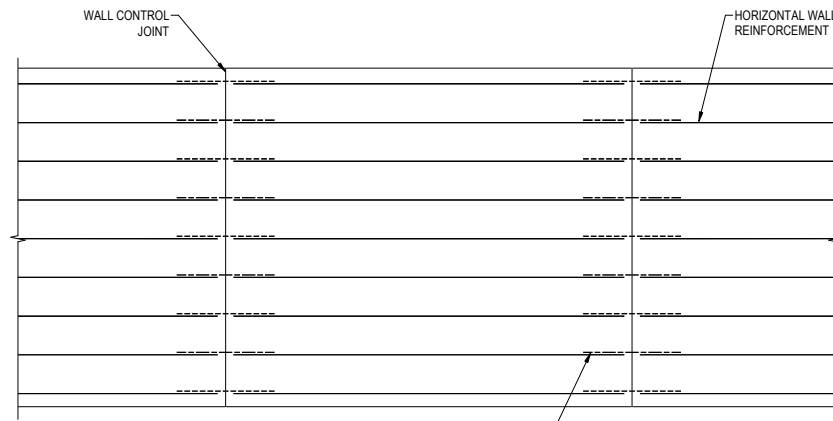
WALL PERPENDICULAR ROOF JOIST CMU WALL LATERAL SUPPORT DETAIL

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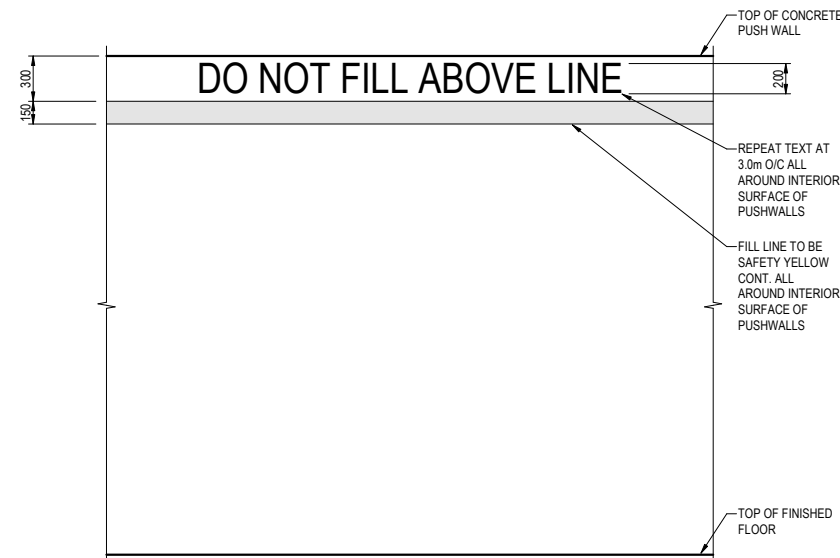
WALL UNDER ROOF JOIST CMU WALL LATERAL SUPPORT DETAIL

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PUSH WALL CONTROL JOINT ELEVATION

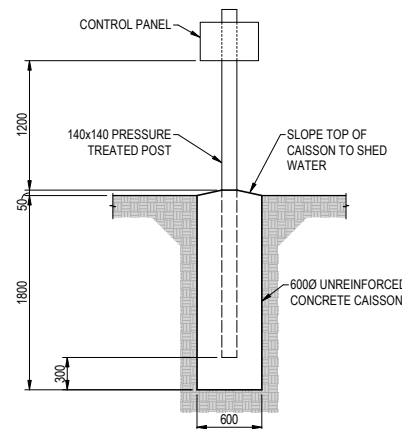
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PUSH WALL MARKINGS DETAIL

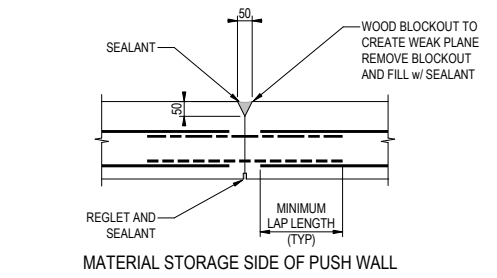
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NOTE: - LINE AND TEXT TO BE EPOXY PAINT ON CONCRETE (MINIMUM 2 COATS). PREPARE CONCRETE SURFACE FOR PAINT AS RECOMMENDED BY THE MANUFACTURER
- MARKINGS TO BE APPLIED TO ALL INTERNAL SURFACES OF THE 3.3m TALL PUSH WALLS IN THE MATERIAL STORAGE BUILDING



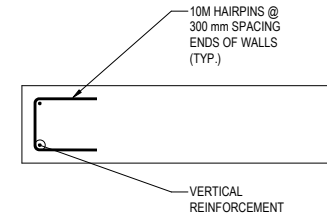
TYPICAL CONTROL PANEL SUPPORT POST AND FOUNDATION DETAIL

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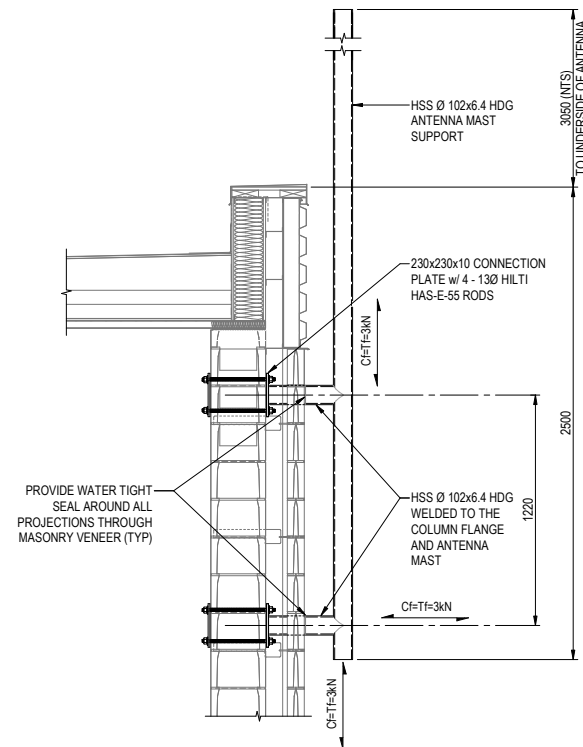
PUSH WALL CONTROL JOINT DETAIL

SCALE: NOT TO SCALE



PUSH WALL EXPOSED END PLAN DETAIL

SCALE: NOT TO SCALE



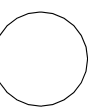
ANTENNA SUPPORT

SCALE: 1 : 20

CONT No 2023-4010
GWP No 4044-22-00

STRUCTURAL

FENELON FALLS MPY
STANDARD DETAILS



SHEET

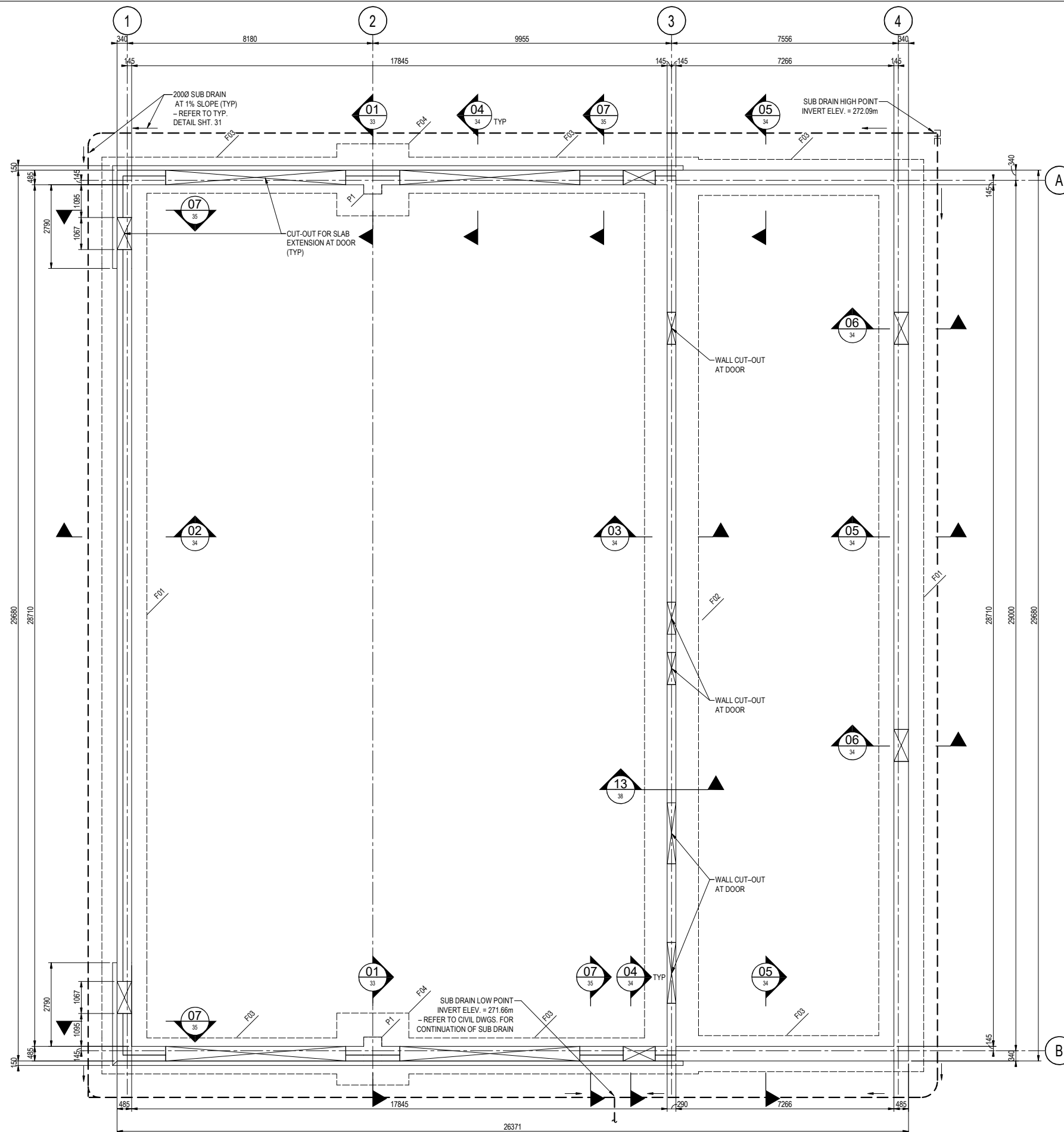
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DRAWING NOT TO BE SCALED
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FOUNDATION PLAN
 SCALE: 1 : 75

PIER SCHEDULE					
MARK	TYPE	T/O PIER ELEVATION	VERTICAL REINFORCING	TIES	ANCHOR RODS
P1	SEE PIER TYPE DETAILS ON THIS DWG	273.620	15M @ 300	10M @ 300	N/A

FOOTING SCHEDULE				
MARK	SIZE	T/O FOOTING ELEVATION	TOP & BOTTOM REINFORCING	DOWELS
F01	1500x300	271.960	LONG REINF. 15M @ 300 T&B TRANS. REINF. 20M @ 300 T&B	15M @ 300
F02	1800x300	271.960	LONG REINF. 15M @ 300 T&B TRANS. REINF. 20M @ 300 T&B	15M @ 300
F03	1200x300	271.960	LONG REINF. 15M @ 300 T&B TRANS. REINF. 20M @ 300 T&B	15M @ 300
F04	2400x2400x300	271.960	LONG REINF. 15M @ 300 T&B TRANS. REINF. 20M @ 300 T&B	15M @ 300

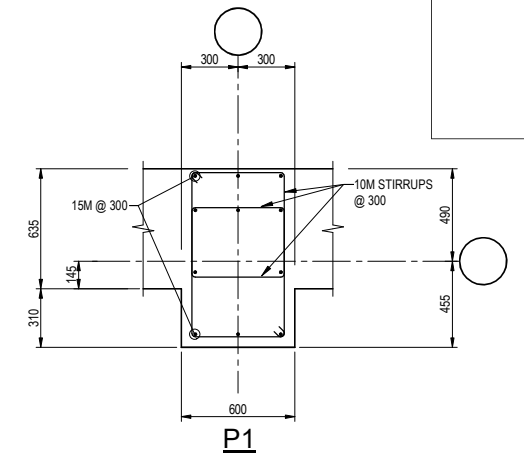
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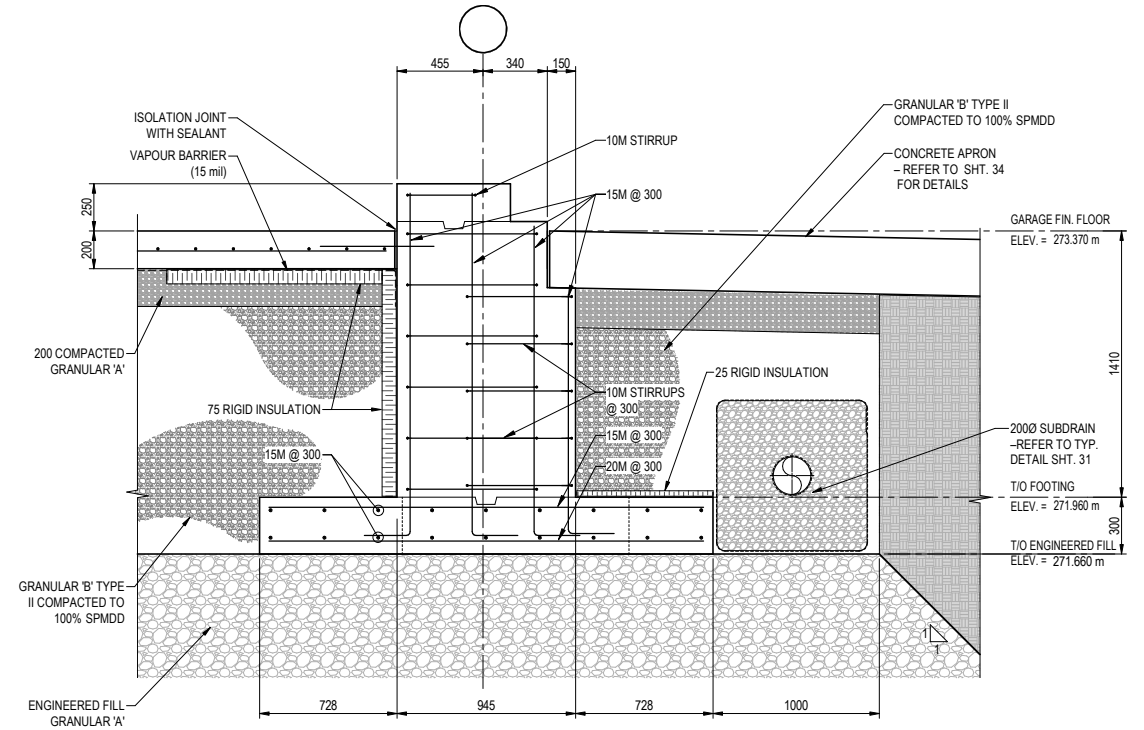
FENELON FALLS MPY
 VEHICLE MAINTENANCE BUILDING -
 FOUNDATION PLAN, SCHEDULES, PIER
 SECTION & DETAIL



SHEET
 33



PLAN DETAIL - MASONRY PILASTER PIER
 SCALE: 1 : 20



SECTION 01
 SCALE: 1 : 20

DRAWING NOT TO BE SCALED
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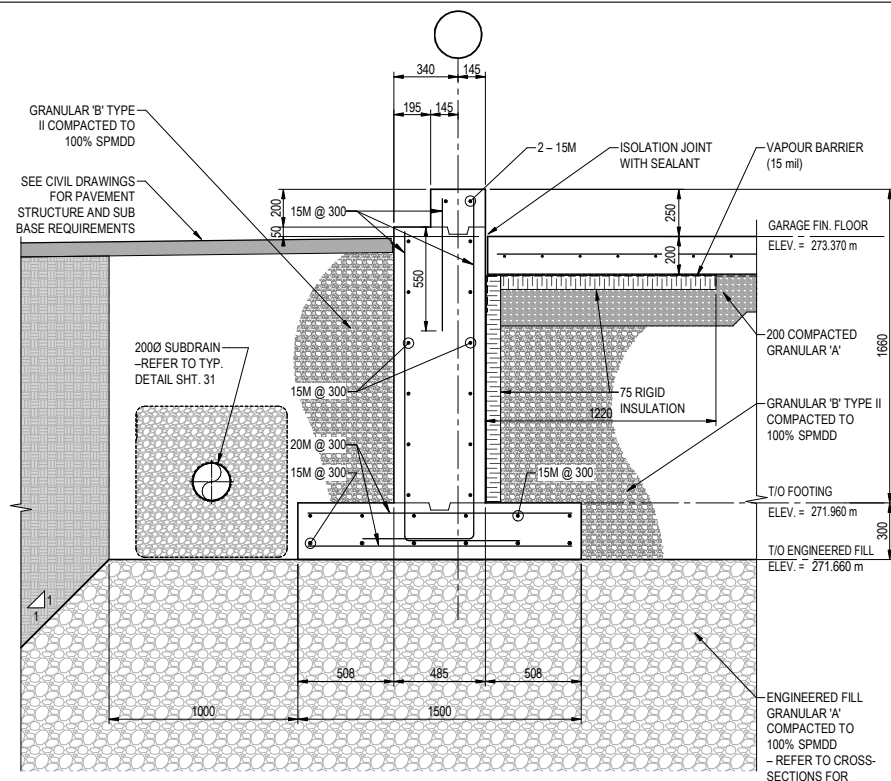
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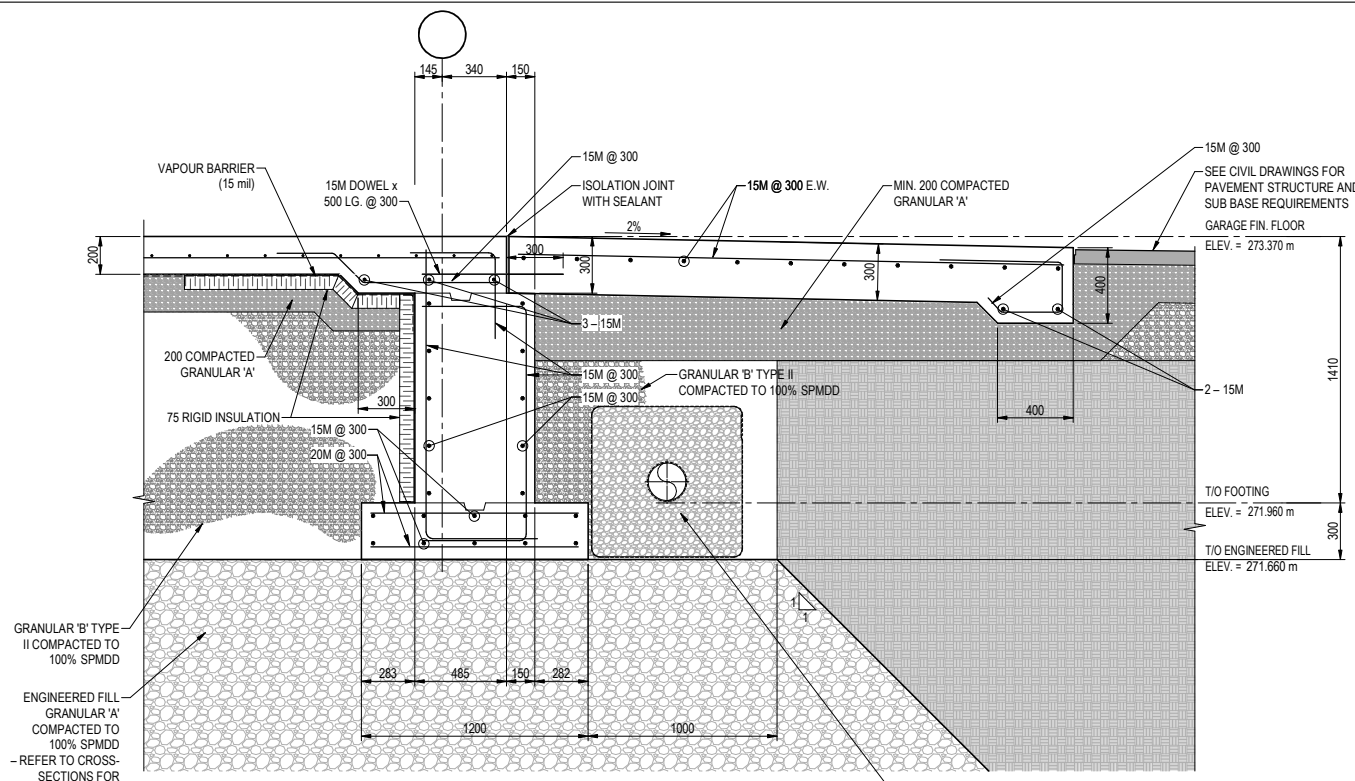
FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING -
FOUNDATION SECTIONS

SHEET

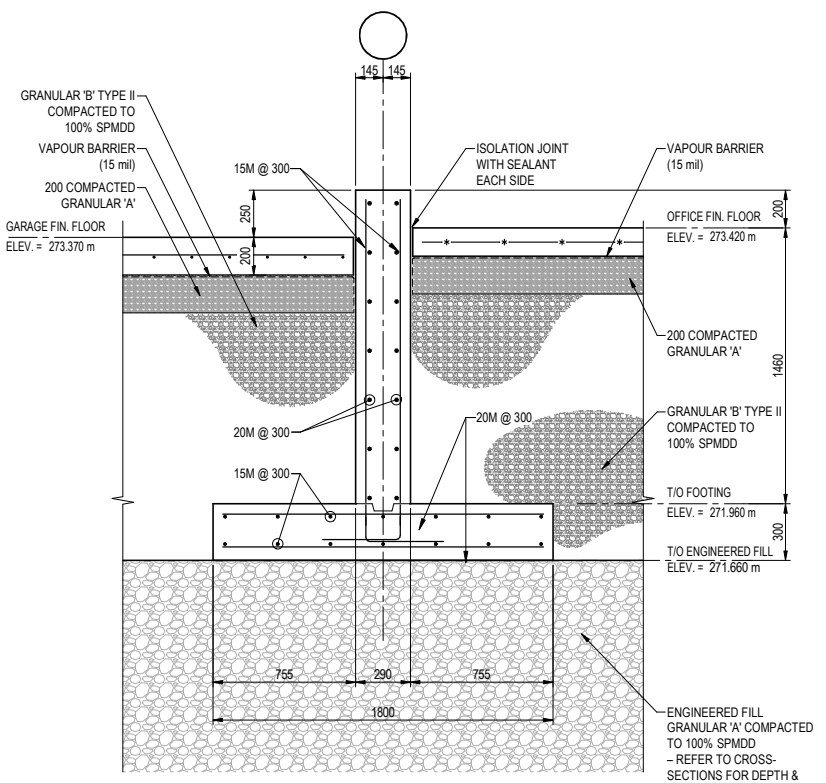
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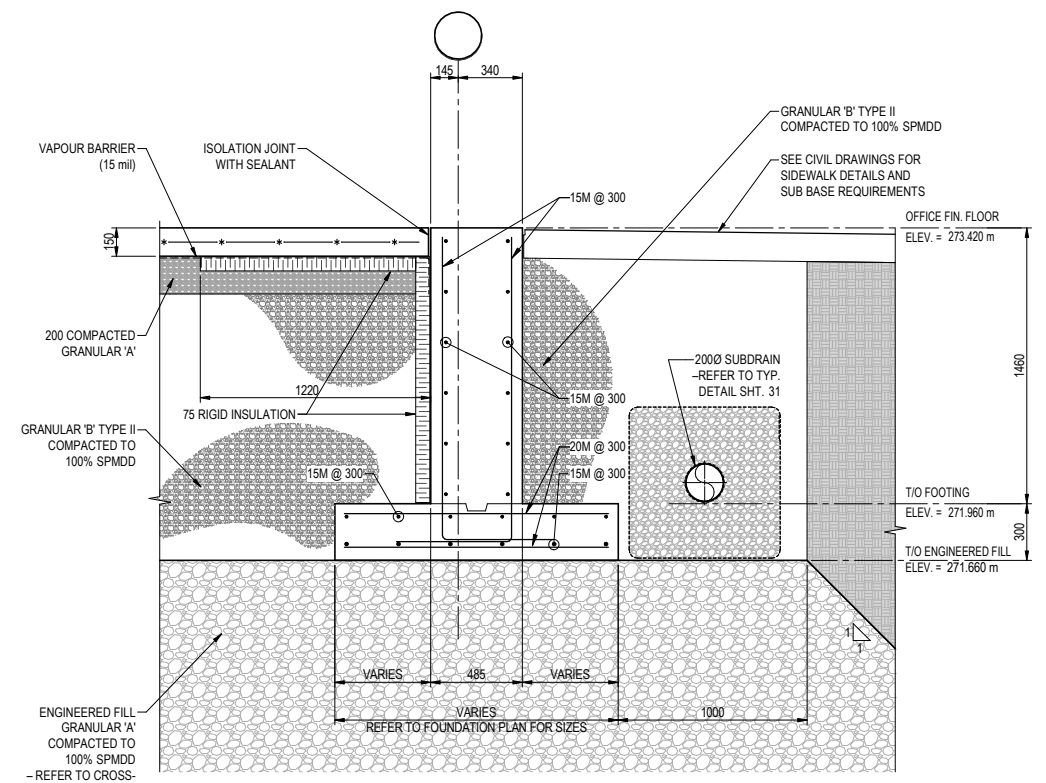
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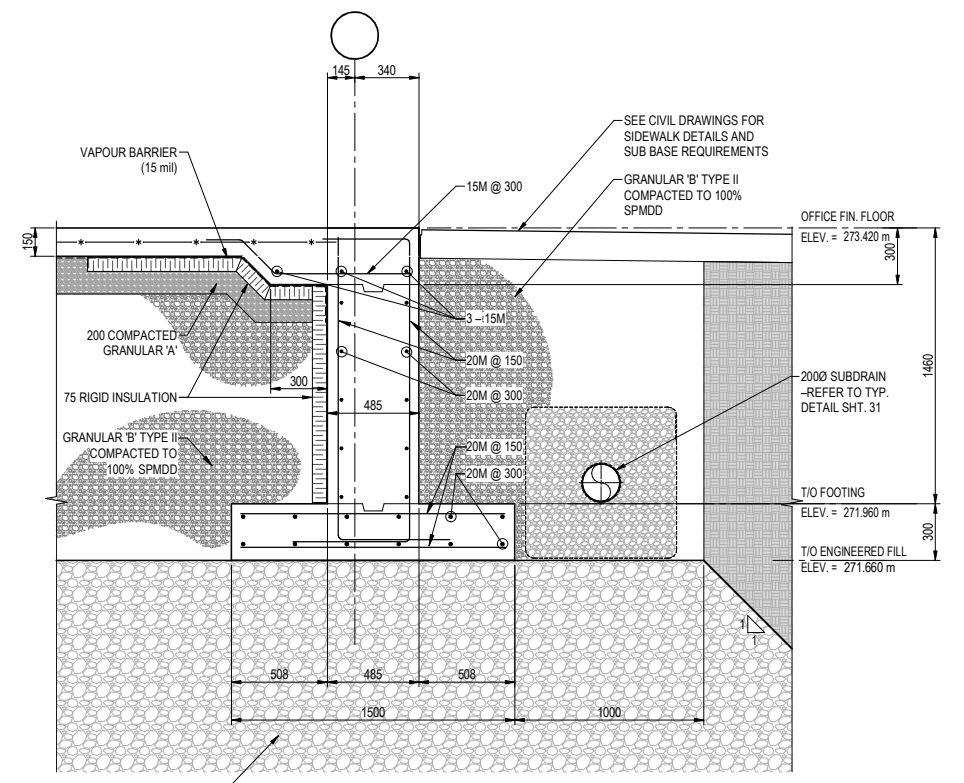
04 SECTION
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03 SECTION
SCALE: 1 : 20



05 SECTION
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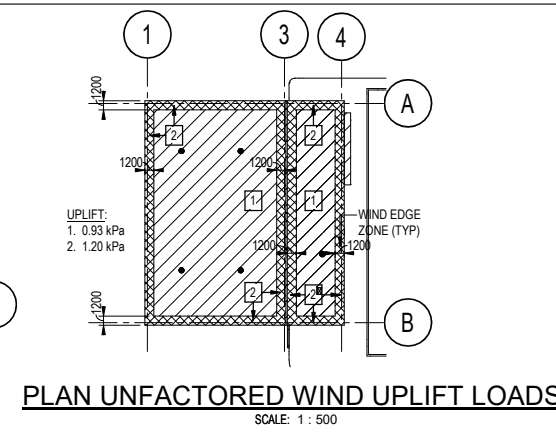


06 SECTION
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DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

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JOIST SCHEDULE					
MARK	DEPTH	SPECIFIED LOADS			LIVE LOAD DEFLECTION LIMIT
		DEAD	SNOW	WIND	
J01	900	1.55 kPa (0.50 kPa MIN DEAD LOAD FOR UPLIFT)	2.24 kPa	1.20 kPa UPLIFT	SPAN/360
J02	700	1.55 kPa (0.50 kPa MIN DEAD LOAD FOR UPLIFT)	2.24 kPa BASE SNOW LOAD. SEE DRAWINGS FOR DRIFT LOADS	1.20 kPa UPLIFT	SPAN/360

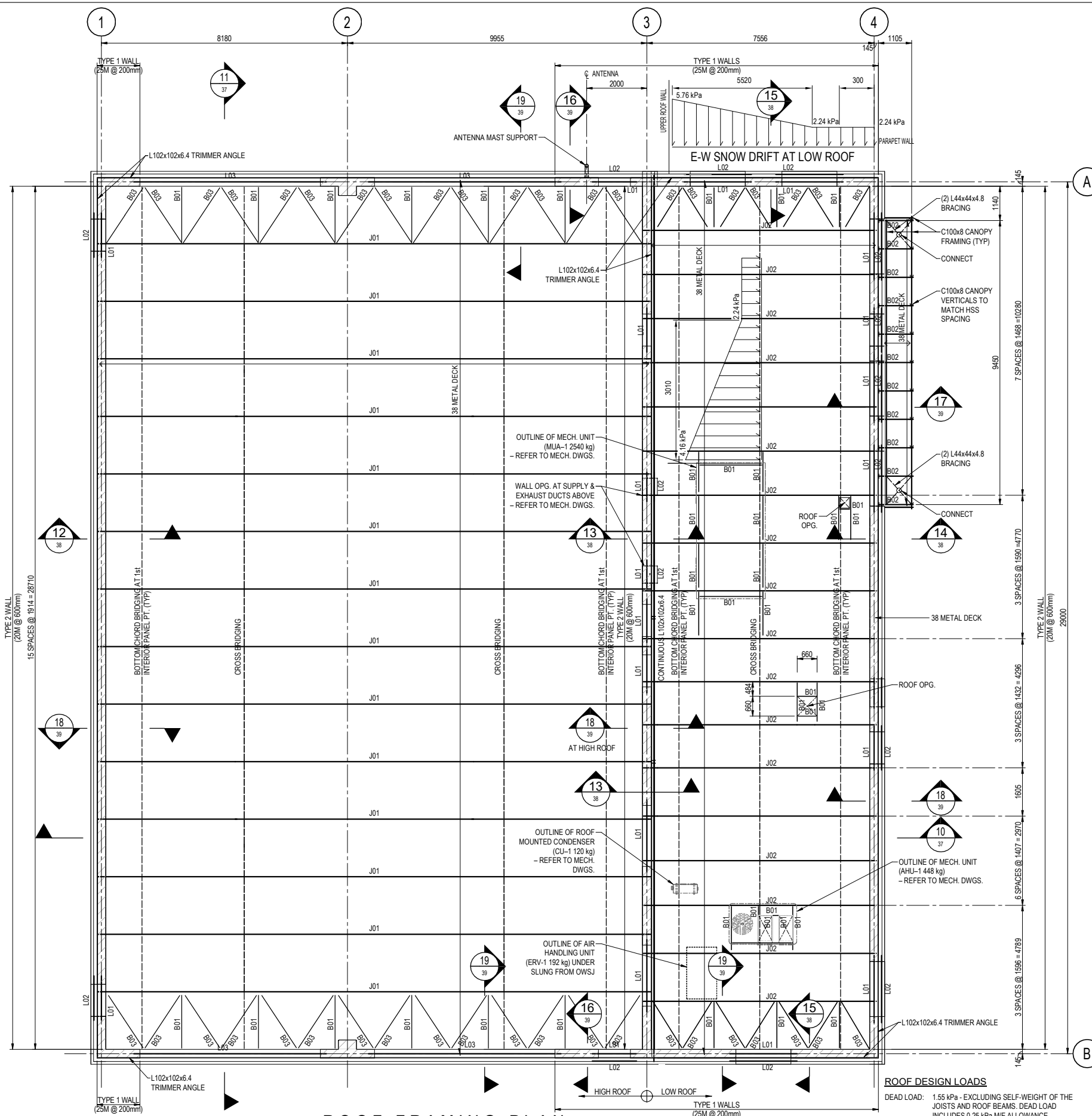
- GENERAL JOIST NOTES:
- SHOE DEPTH = 100
 - FABRICATE TOP CHORDS TO ENSURE FULL BEARING IS PROVIDED FOR STEEL DECK.
 - SEE ROOF FRAMING PLAN FOR TIE JOIST LOCATIONS (T.J.)
 - DEAD LOAD SHOWN IN JOIST SCHEDULE IS SUPERIMPOSED DEAD LOAD AND DOES NOT INCLUDE SELF-WEIGHT OF JOISTS.
 - BOTTOM CHORD OF JOIST TO EXTEND TO WITHIN 300mm OF GRID LINES.
 - JOIST LOADING TO CSA S16-14 AND AS SPECIFIED HERE.
 - DESIGN LIVE LOAD SHALL INCLUDE ADDITIONAL POINT LOAD OF 2 kN AT ANY JOIST PANEL POINT.
 - DEAD LOAD INCLUDES 0.25 kPa M/E ALLOWANCE.

METAL DECK SCHEDULE					
AREA	DECK		CONNECTIONS		REMARKS
	PROFILE	THICKNESS	AT SUPPORTS	AT SIDE LAP	
LOW ROOF	P-3615 (TRIPLE SPAN)	1.21mm	ARC WELD 19mm PATTERN 9144	BUTTON PUNCH @ 600mm	WELD DECK (ARC WELD 20mm) AT PERIMETER OF BUILDING EVERY 600mm O.C. PROVIDE DECK CLOSURE TO SEAL ALL FLUTES
HIGH ROOF	P-3615 (TRIPLE SPAN)	0.92mm	ARC WELD 19mm PATTERN 9144	BUTTON PUNCH @ 600mm	WELD DECK (ARC WELD 20mm) AT PERIMETER OF BUILDING EVERY 600mm O.C. PROVIDE DECK CLOSURE TO SEAL ALL FLUTES

STEEL LINTEL SCHEDULE		
MARK	SIZE	REMARKS
L01	HSS203x152x6.4	
L02	L152x89x9.5 (LLV)	
L03	HSS305x203x16 + PL 16x290 + L102x102x6.4 CONT. SHELF ANGLE	115mm D. GALV. OFFSET SHELF ANGLE SUPPORT BRACKETS ANCHORED TO MASONRY AT 600mm O.C. (FERO FAST THERMAL BRACKETS - LINTEL)

- NOTES:
- THIS SCHEDULE IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL MECHANICAL AND ELECTRICAL DRAWINGS
 - A SUITABLE LINTEL IS TO BE SUPPLIED FOR ALL OPENINGS
 - THIS SCHEDULE IS TO BE USED AS A GUIDE WITH REGARD TO WALL SIZE AND OPENING WIDTH FOR ANY LINTELS NOT SPECIFICALLY NOTED
 - PROVIDE A MINIMUM END BEARING OF 200mm (UNLESS NOTED)
 - ALL LINTELS TO BE HOT DIPPED GALVANIZED.
 - GROUT SOLID AROUND ALL LINTELS WHERE FACE BLOCKS ARE USED.

ROOF STEEL SCHEDULE		
MARK	SIZE	REMARKS
B01	C150x12	
B02	HSS102x76x6.4	300x300x13 THK. CONNECTION PLATE
B03	L76x76x6.4	



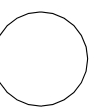
ROOF FRAMING PLAN
SCALE: 1 : 75

ROOF DESIGN LOADS
DEAD LOAD: 1.55 kPa - EXCLUDING SELF-WEIGHT OF THE JOISTS AND ROOF BEAMS. DEAD LOAD INCLUDES 0.25 kPa M/E ALLOWANCE
LIVE LOAD: 1.0 kPa
SNOW LOAD: REFER TO SNOW DRIFT DIAGRAM SHOWN ON DRAWING
WIND LOAD: SEE WIND UPLIFT LOADS PLAN THIS SHEET

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

REVISIONS	DATE	BY	DESCRIPTION
REV 01	24.10.21	BWD	ISSUED FOR TENDER

CONT No 2023-4010
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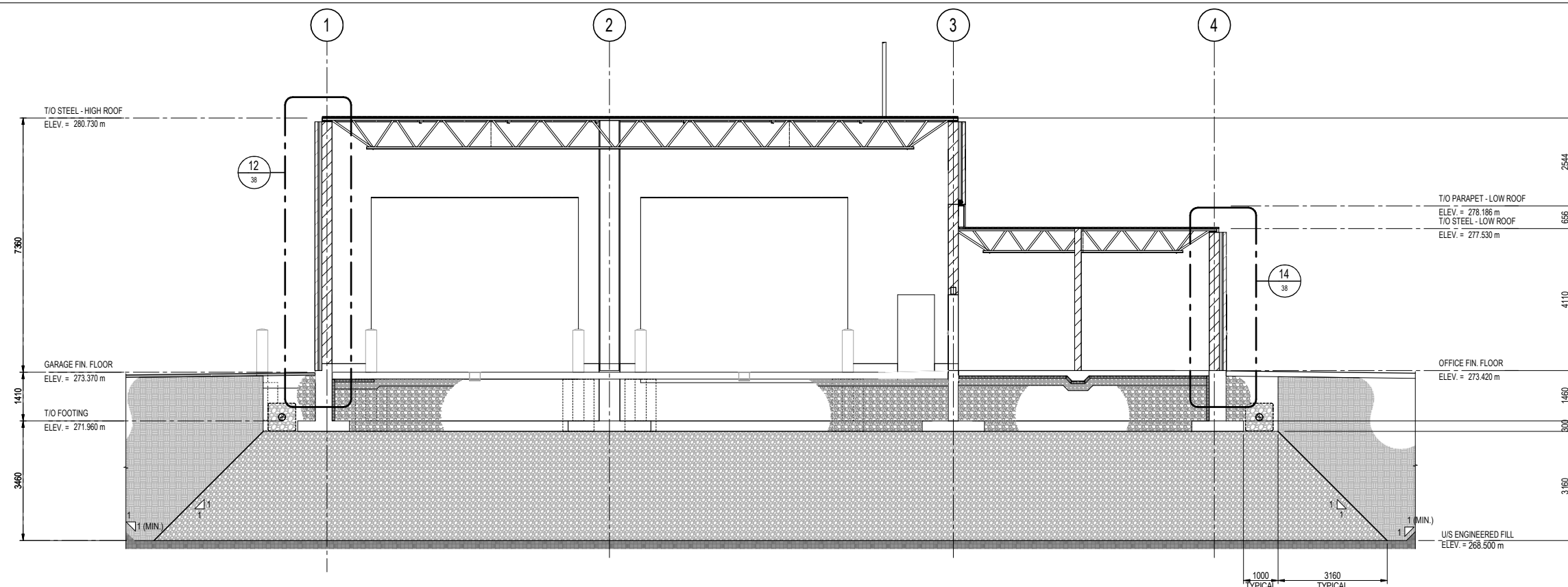


STRUCTURAL

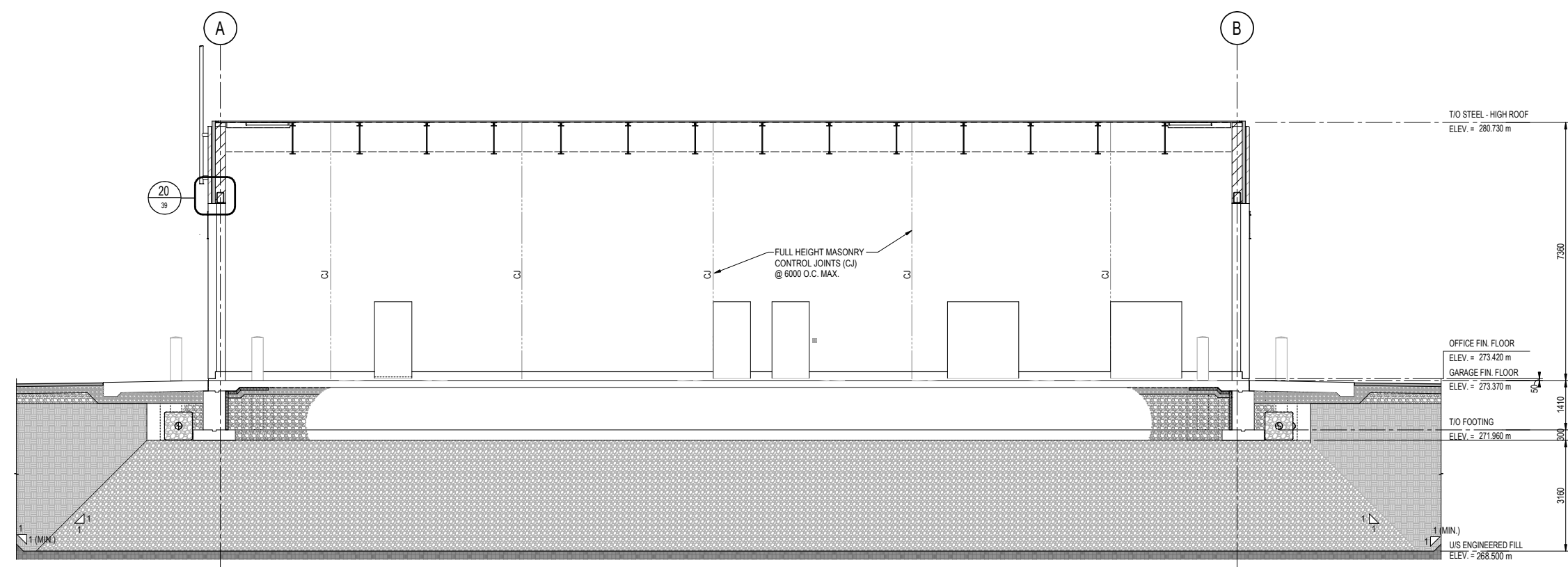
SHEET

FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING -
CROSS-SECTIONS

37



10 CROSS - SECTION
SCALE: 1 : 75



11 CROSS - SECTION
SCALE: 1 : 75

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

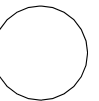
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▲	24.10.21	BWD		ISSUED FOR TENDER
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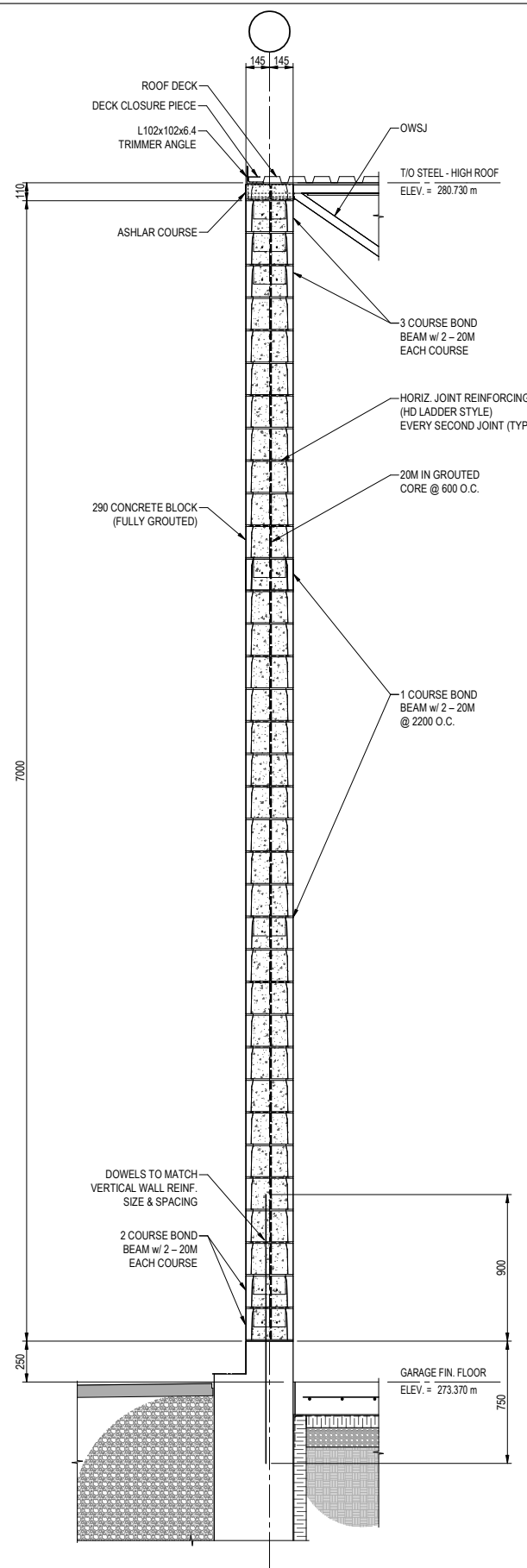
CONT No 2023-4010
GWP No 4044-22-00

STRUCTURAL

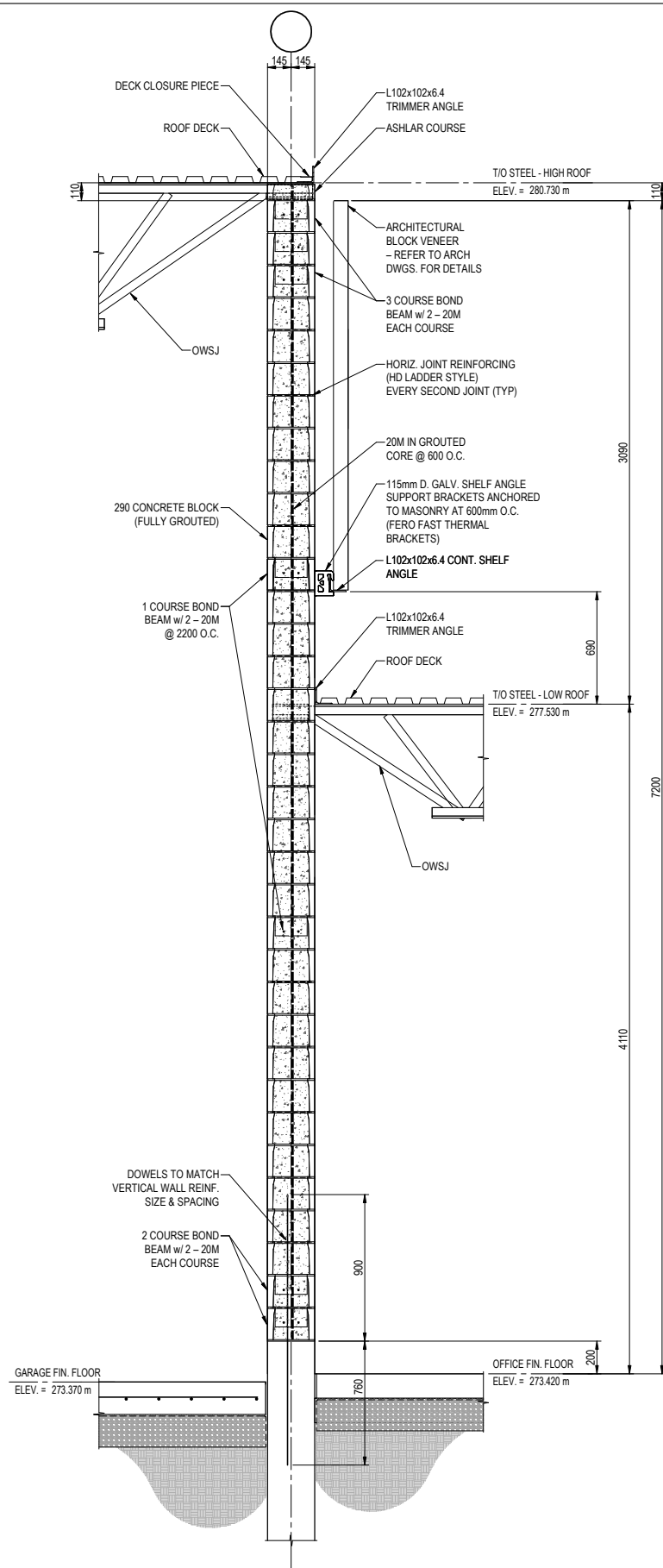
FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING - WALL
SECTIONS AND DETAILS



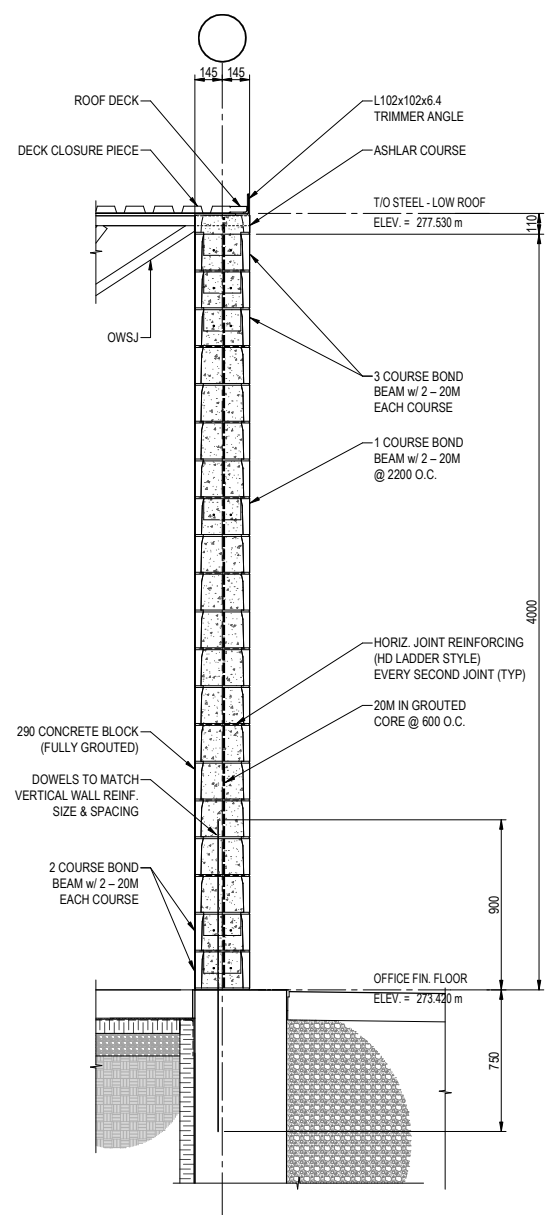
SHEET
38



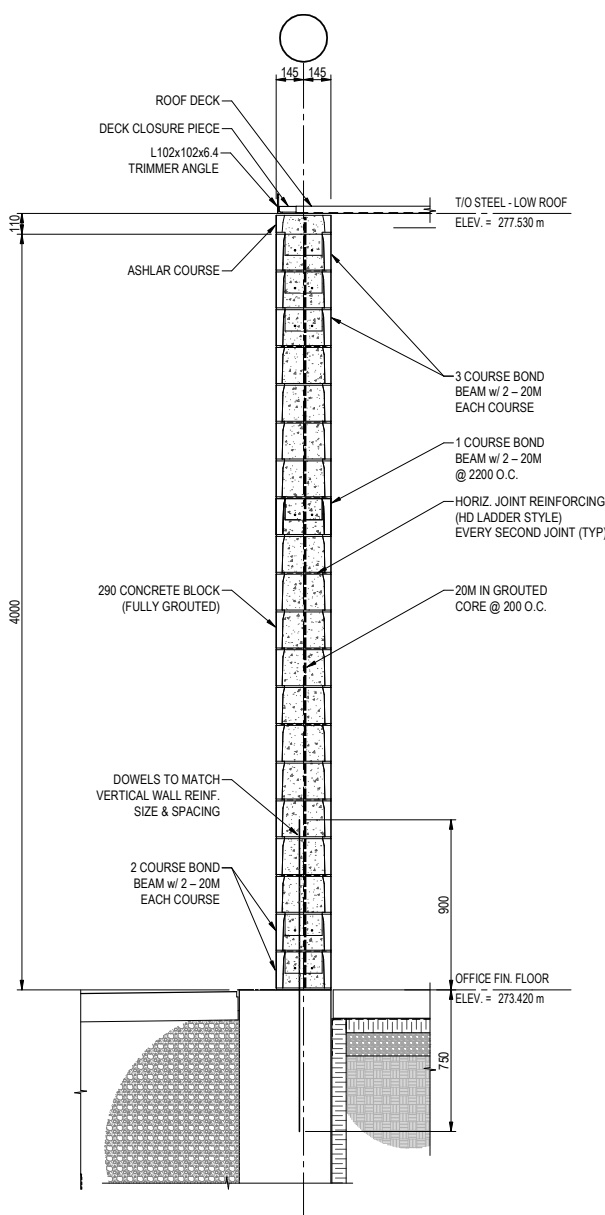
12 WALL SECTION
SCALE: 1 : 20



13 WALL SECTION
SCALE: 1 : 20



14 WALL SECTION
SCALE: 1 : 20



15 WALL SECTION
SCALE: 1 : 20

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

REVISIONS	REV	DATE	BY	DESCRIPTION
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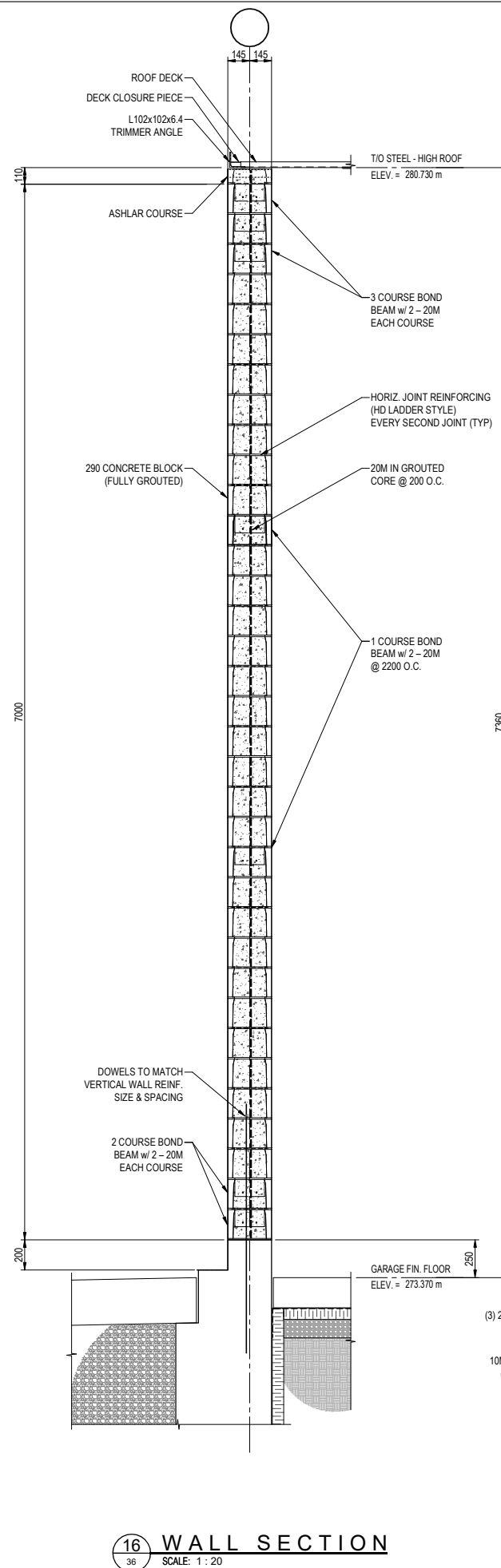
CONT No 2023-4010
GWP No 4044-22-00

STRUCTURAL

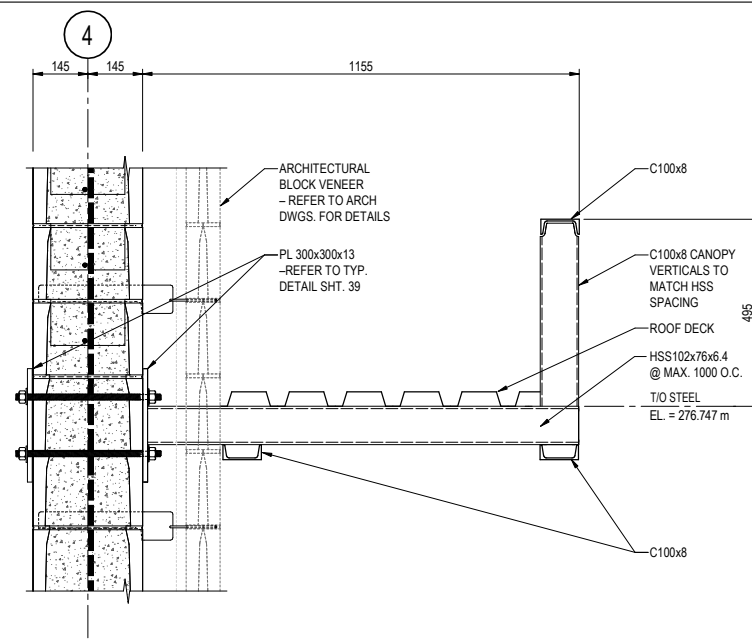
FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING - WALL
SECTIONS AND DETAILS



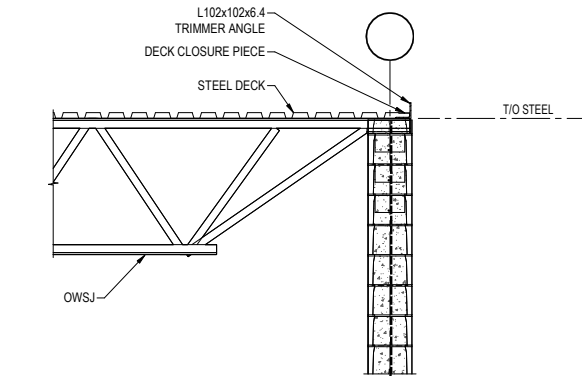
SHEET
39



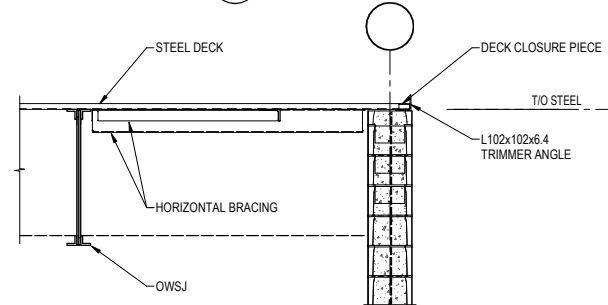
16 WALL SECTION
SCALE: 1 : 20



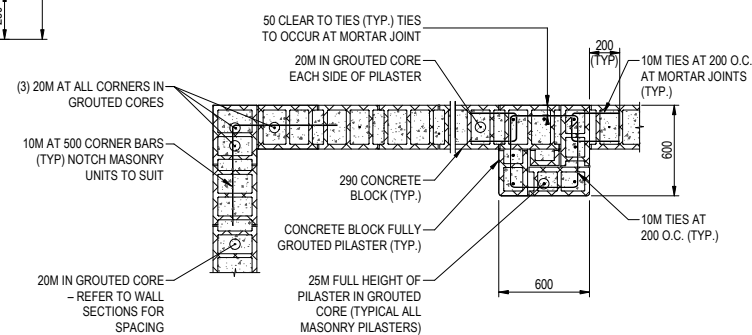
17 SECTION
SCALE: 1 : 10



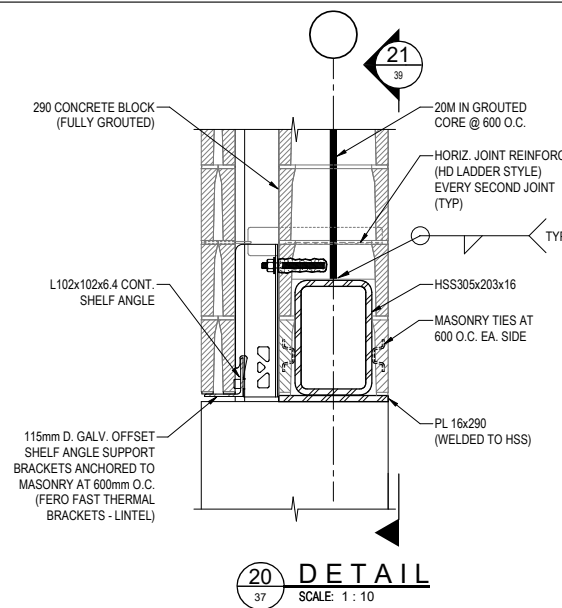
18 SECTION
SCALE: 1 : 25



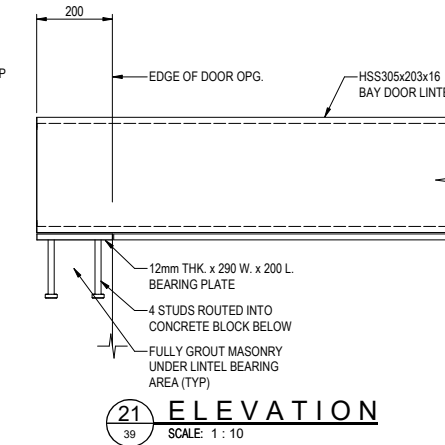
19 SECTION
SCALE: 1 : 25



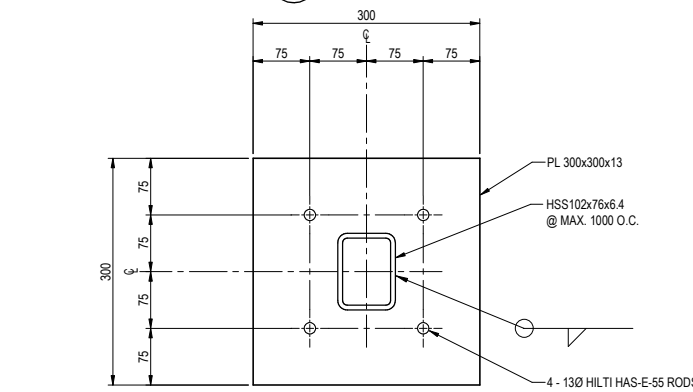
TYPICAL MASONRY WALL REINFORCING
SCALE: 1 : 25



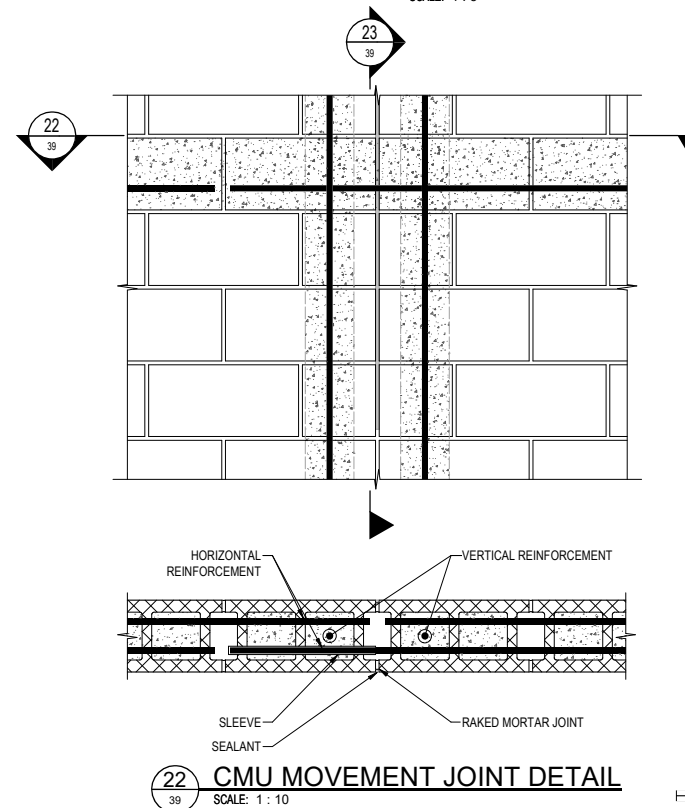
20 DETAIL
SCALE: 1 : 10



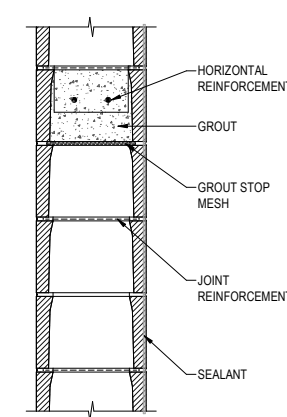
21 ELEVATION
SCALE: 1 : 10



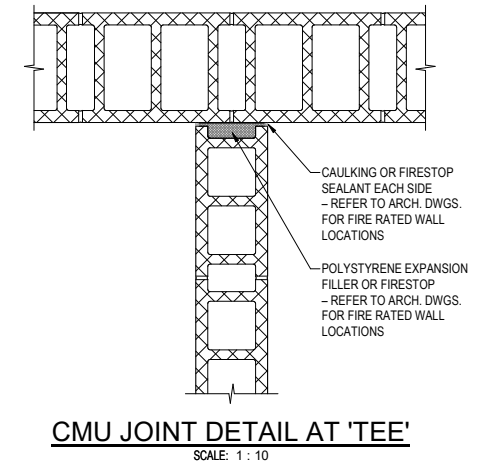
TYPICAL CANOPY SUPPORT CONNECTION PLATE DETAIL
SCALE: 1 : 5



22 CMU MOVEMENT JOINT DETAIL
SCALE: 1 : 10



23 SECTION
SCALE: 1 : 10



CMU JOINT DETAIL AT 'TEE'
SCALE: 1 : 10

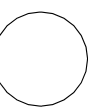
DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

REVISIONS	REV	DATE	BY	DESCRIPTION
1	24.10.21	BWD		ISSUED FOR TENDER

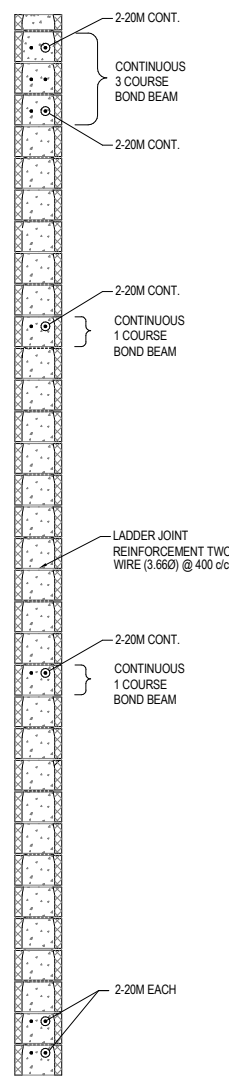
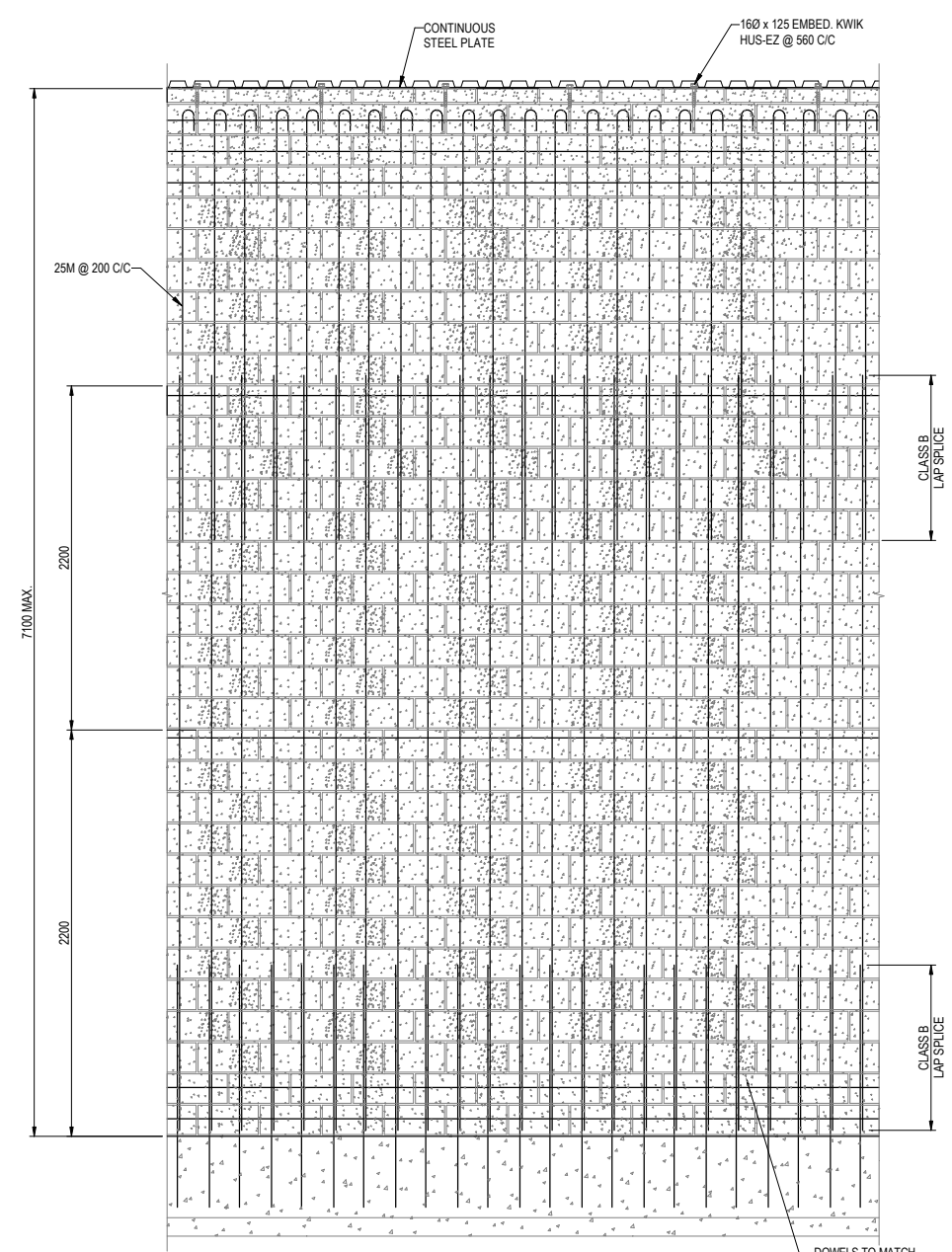
CONT No 2023-4010
GWP No 4044-22-00

STRUCTURAL

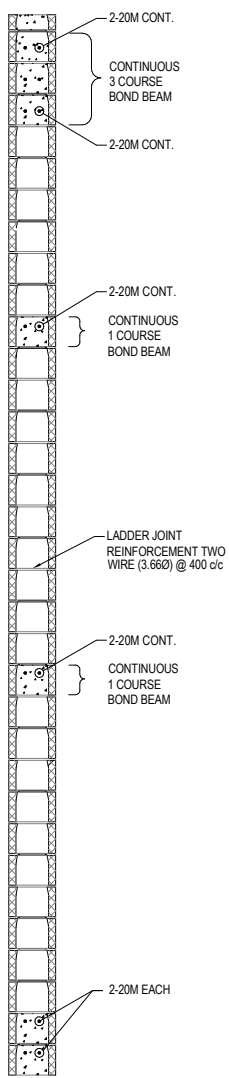
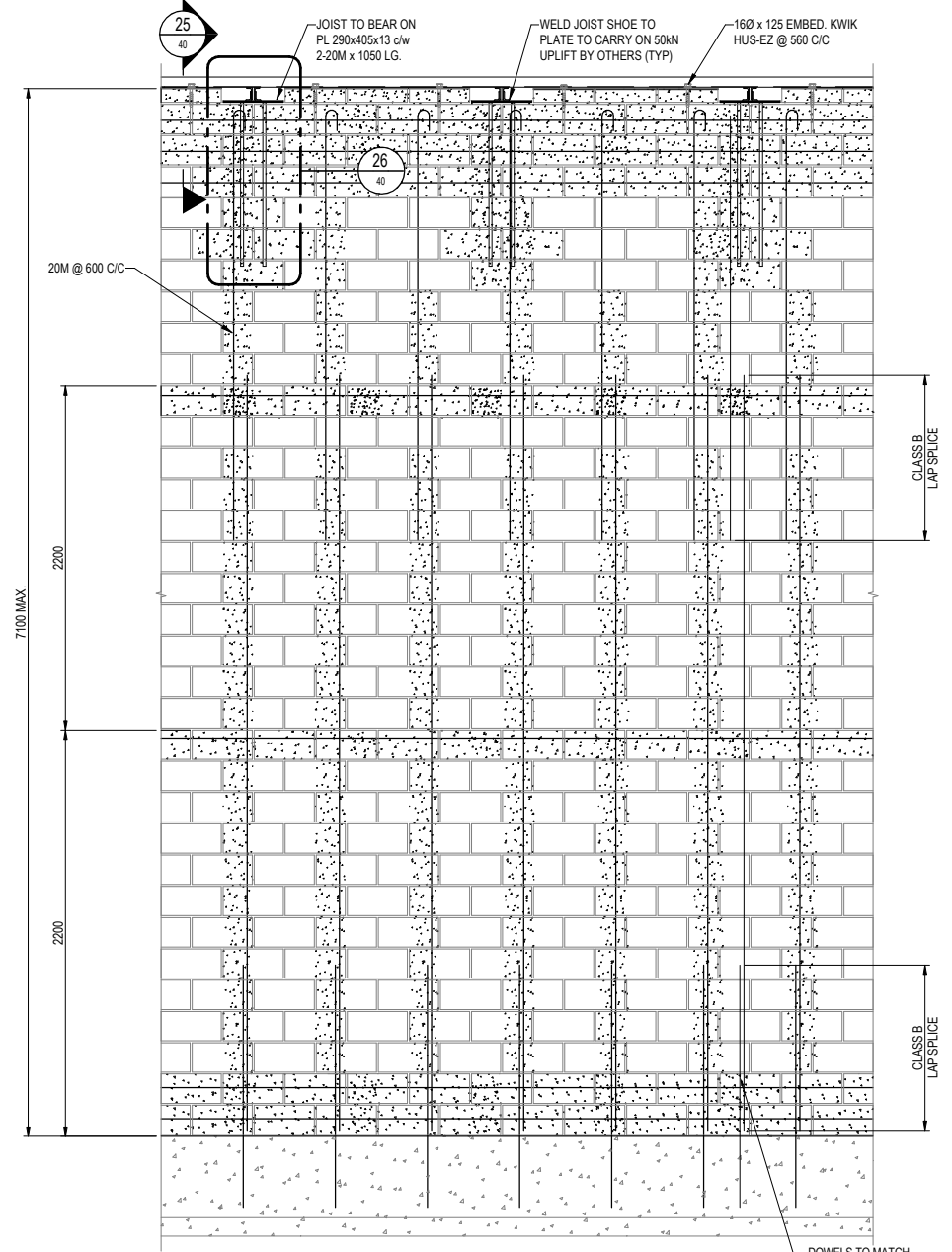
FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING - WALL
DETAILS



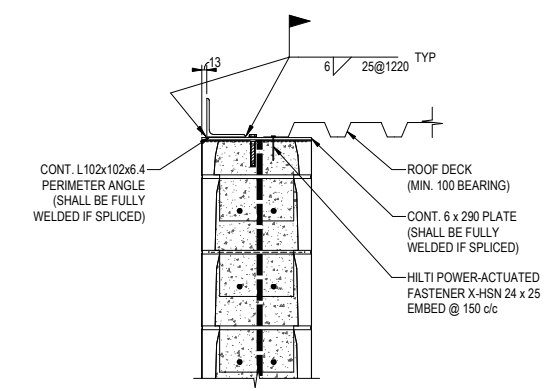
SHEET
40



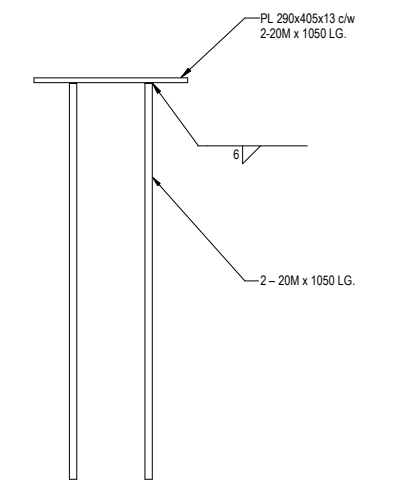
WALL TYPE (1) (20MPa BLOCKS)
TYPICAL 290 MASONRY BLOCK SHEAR WALL (PARALLEL TO JOISTS)
SCALE: NOT TO SCALE



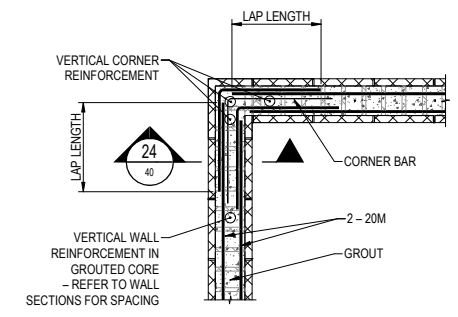
WALL TYPE (2) (20MPa BLOCKS)
TYPICAL 290 MASONRY BLOCK SHEAR WALL (PERPENDICULAR TO JOISTS)
SCALE: NOT TO SCALE



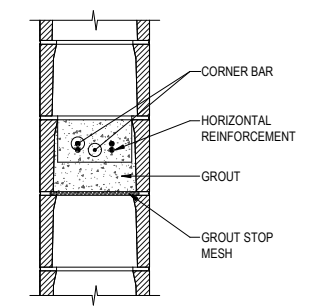
25
SCALE: 1 : 10



26
SCALE: 1 : 10



BOND BEAM CORNER WALL REINFORCING
SCALE: 1 : 25



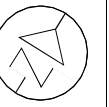
24
SECTION
SCALE: 1 : 10

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100 mm ON ORIGINAL DRAWING

REVISIONS	REV	DATE	BY	DESCRIPTION
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DATE PLOTTED: 2024-09-21 11:16:40 AM
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CONT No 2023-4010
GWP No 4044-22-00



STRUCTURAL

SHEET

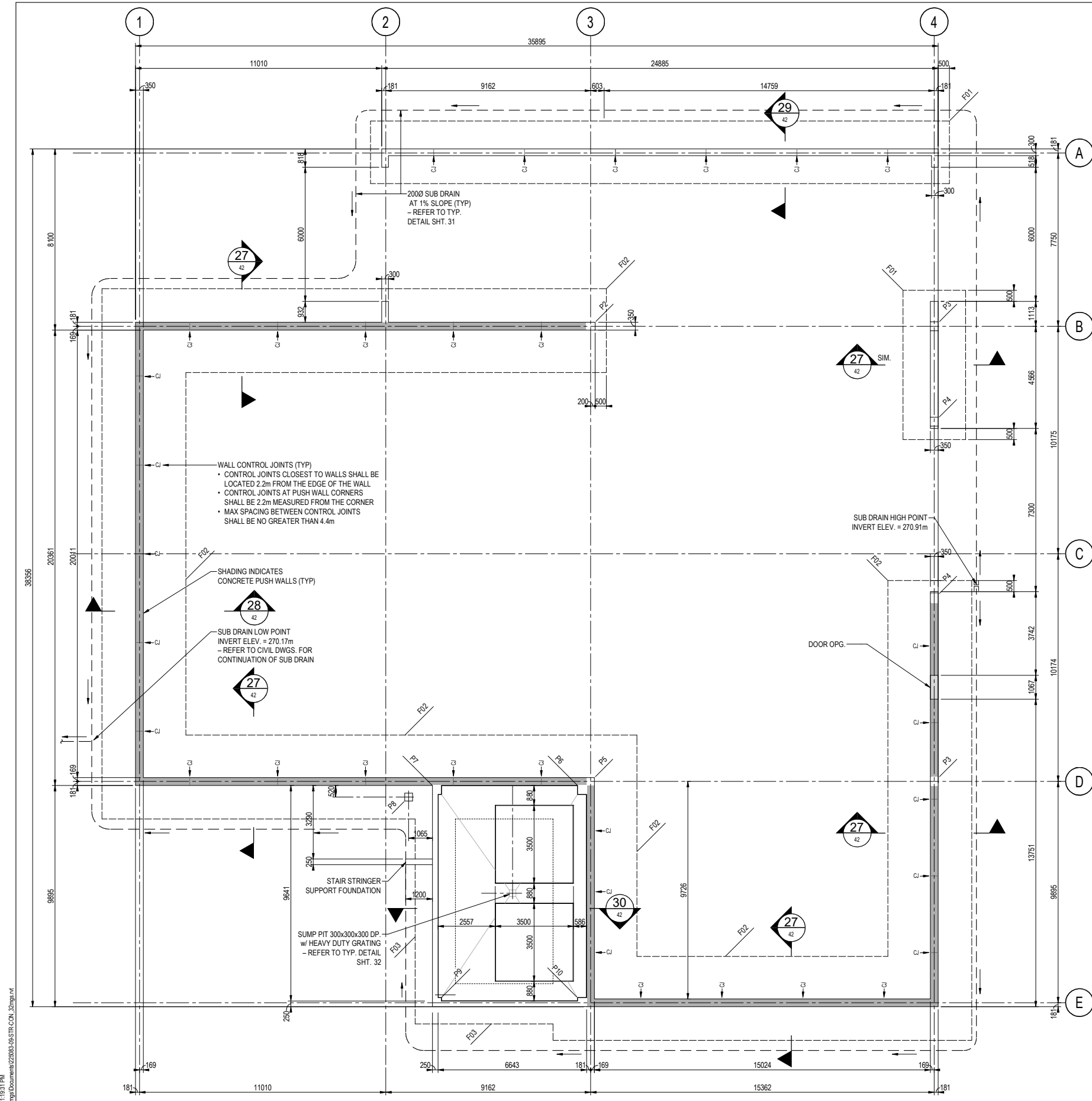
FENELON FALLS MPY
MATERIAL STORAGE BUILDING -
FOUNDATION PLAN, FOOTING/PIER
SCHEDULE

41



FOOTING SCHEDULE				
MARK	SIZE	TOP ELEVATION	TOP & BOTTOM REINFORCING	DOWELS
F01	2800x500	272.370	LONGITUDINAL REINF. 20M @ 150 T&B TRANSVERSE REINF. 20M @ 300 T&B	20M @ 150
F02	3750x500	272.370	LONGITUDINAL REINF. 25M @ 150 T&B TRANSVERSE REINF. 20M @ 300 T&B	25M @ 150
F03	1800x500	272.370	LONGITUDINAL REINF. 20M @ 300 T&B TRANSVERSE REINF. 20M @ 300 T&B	15M @ 150

NOTES:
 * FOR CONCRETE CLEAR COVER, SEE DWG. 31
 * c/w STD. HOOKS EMBEDDED TO BOTTOM LOWER LAYER OF FOOTING REINFORCING.



FOUNDATION PLAN

SCALE: 1 : 100

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

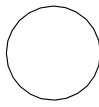
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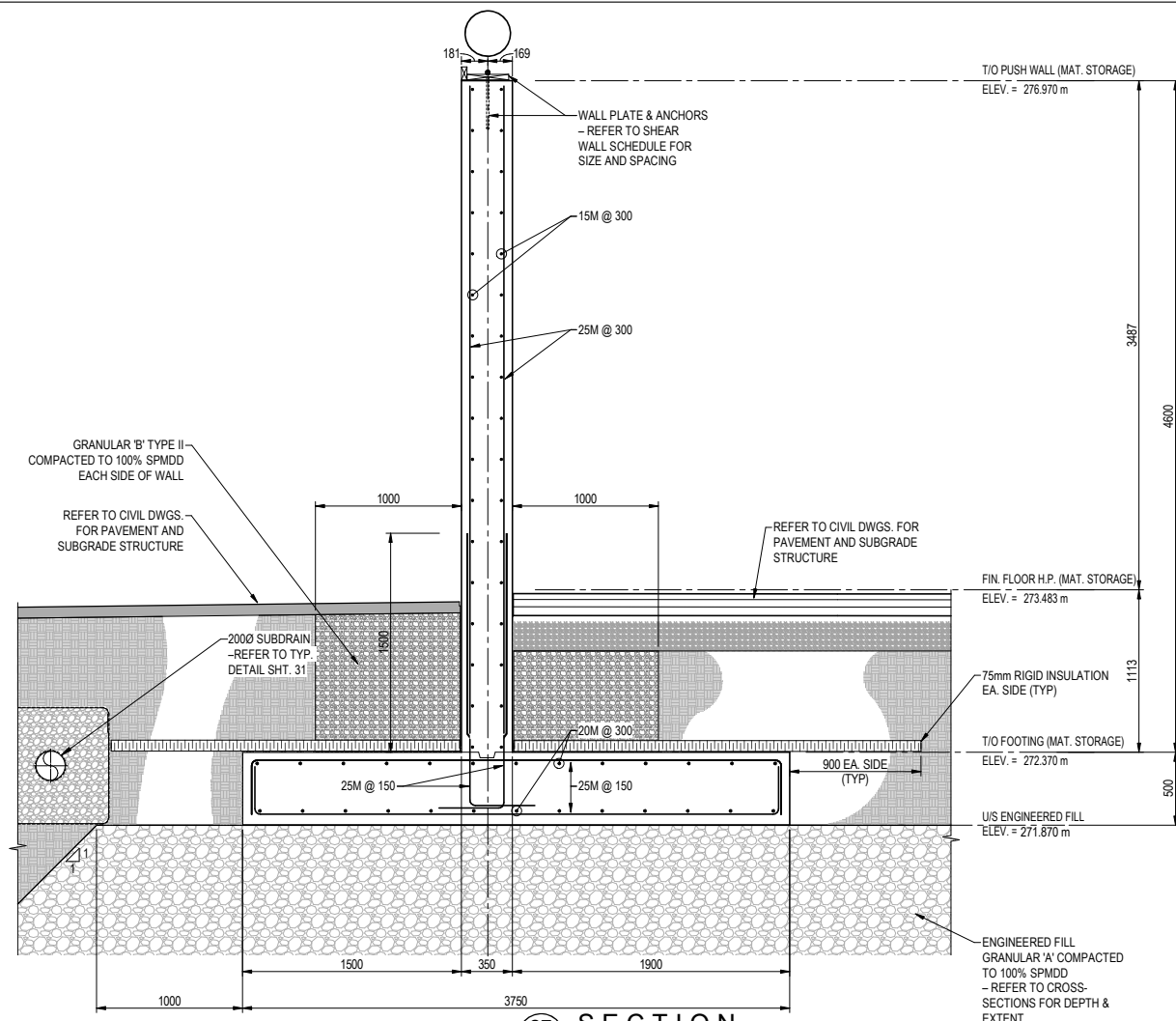
CONT No 2023-4010
GWP No 4044-22-00

STRUCTURAL

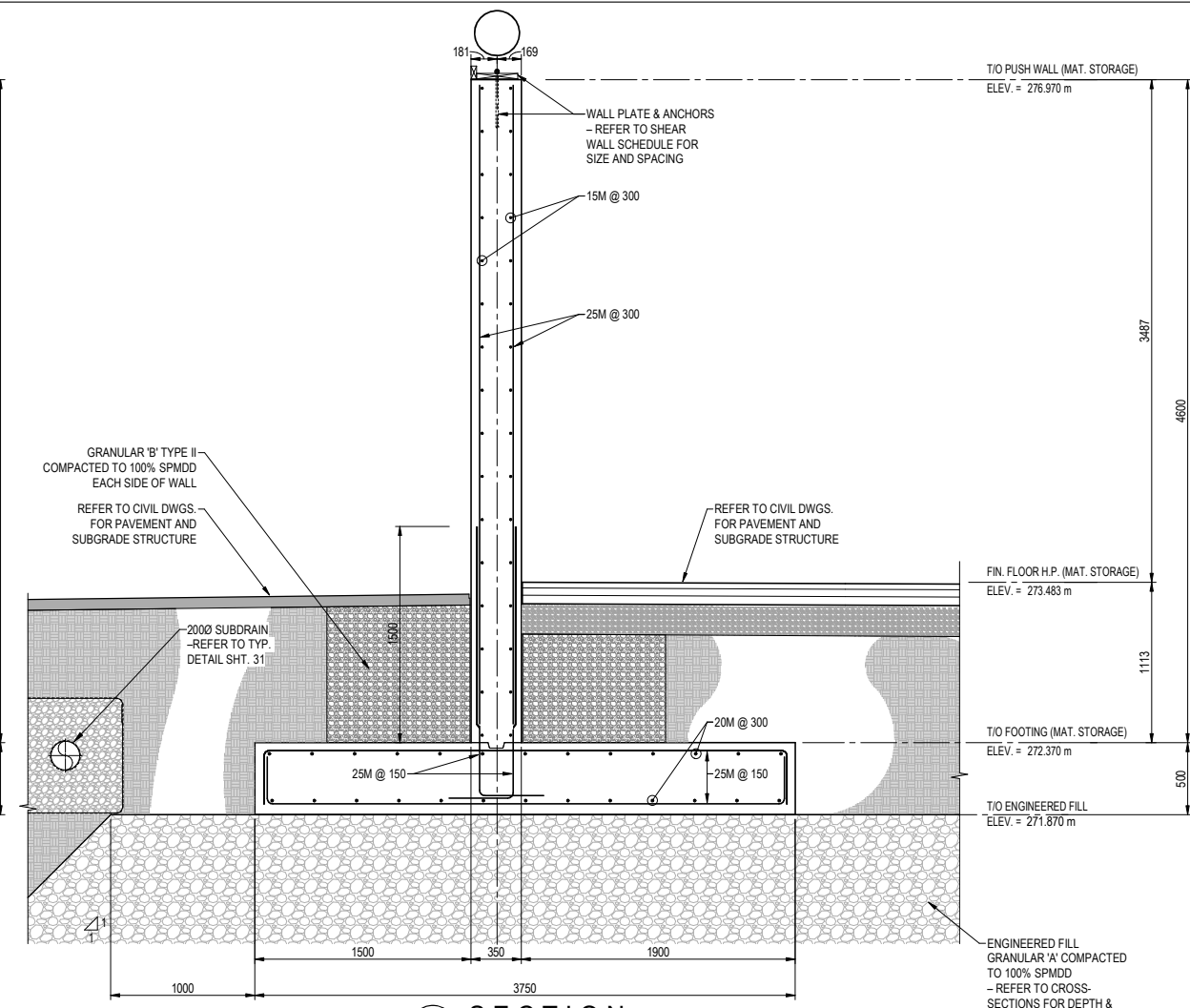
FENELON FALLS MPY
MATERIAL STORAGE BUILDING -
FOUNDATION SECTIONS ANCHOR ROD
DETAIL



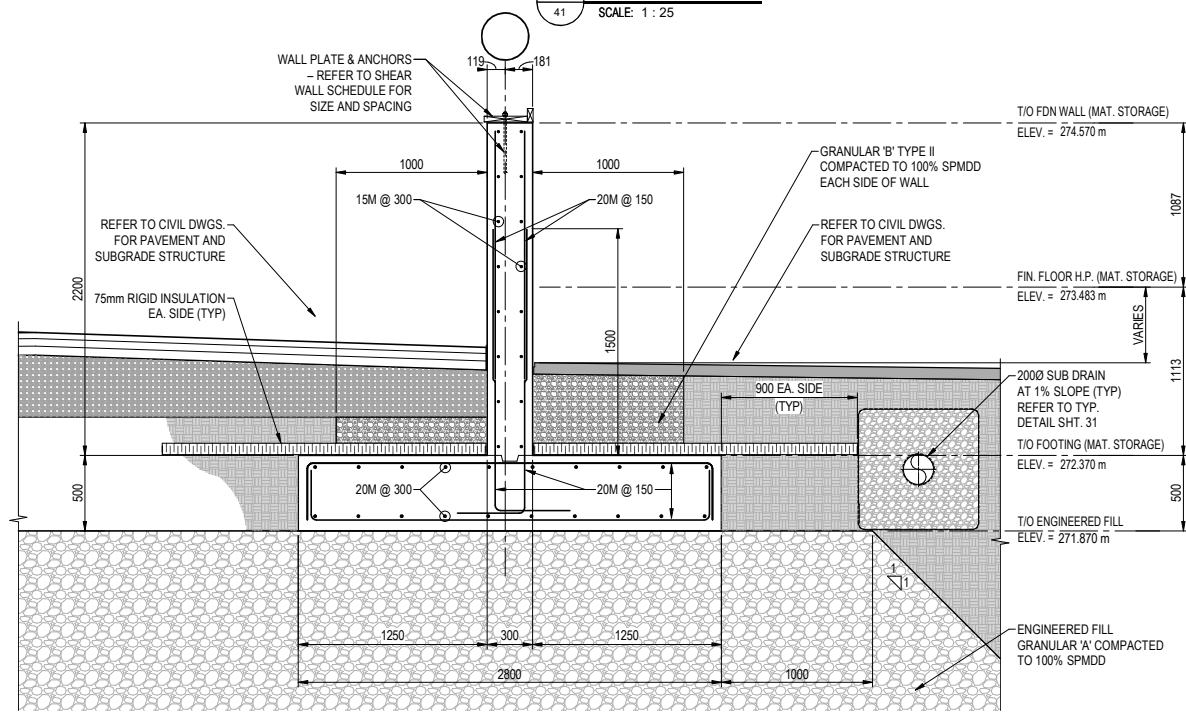
SHEET
42



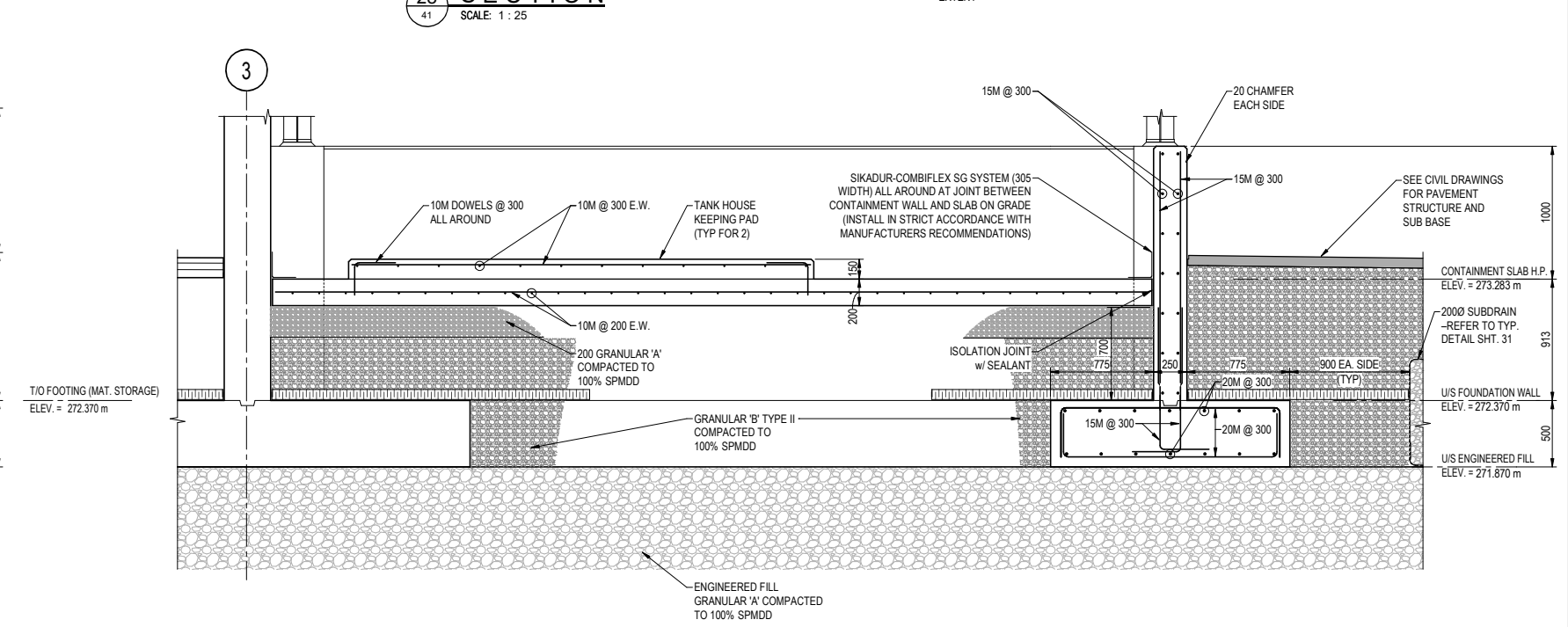
SECTION 27
SCALE: 1 : 25



SECTION 28
SCALE: 1 : 25



SECTION 29
SCALE: 1 : 25



SECTION 30
SCALE: 1 : 25

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

REVISIONS	REV	DATE	BY	DESCRIPTION
1	24.10.21	BWD		ISSUED FOR TENDER

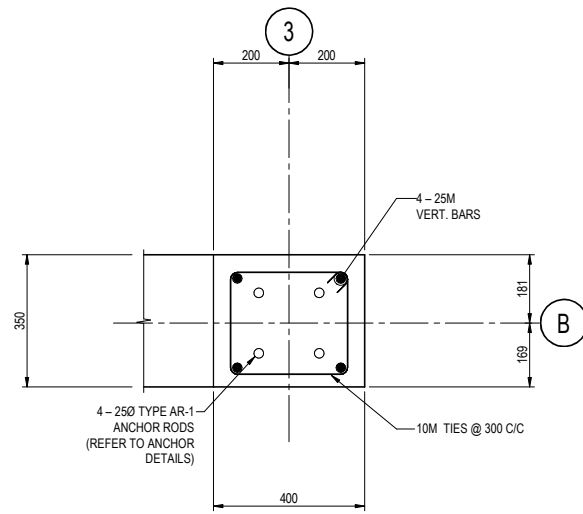
CONT No 2023-4010
GWP No 4044-22-00

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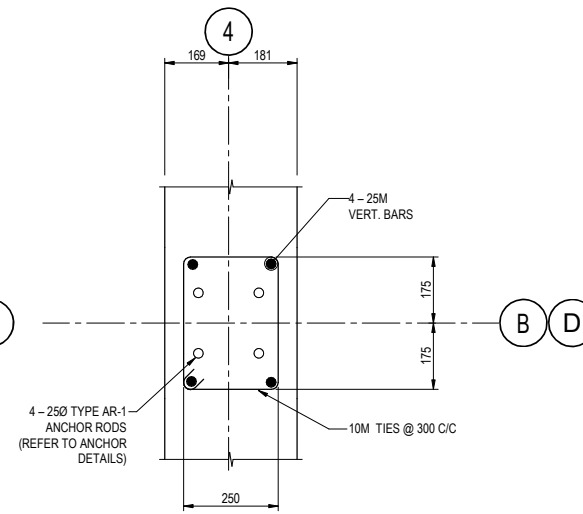
FENELON FALLS MPY
MATERIAL STORAGE BUILDING - PIER AND
BASE PLATE DETAILS



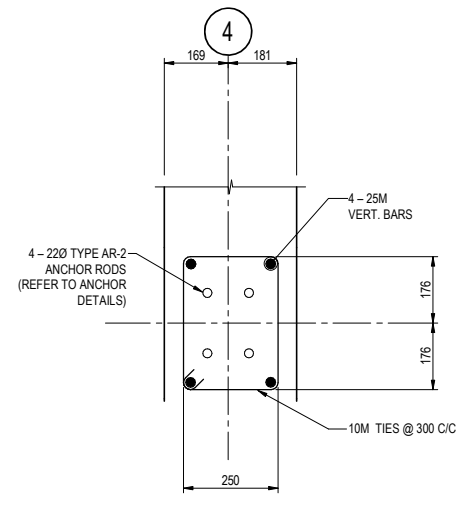
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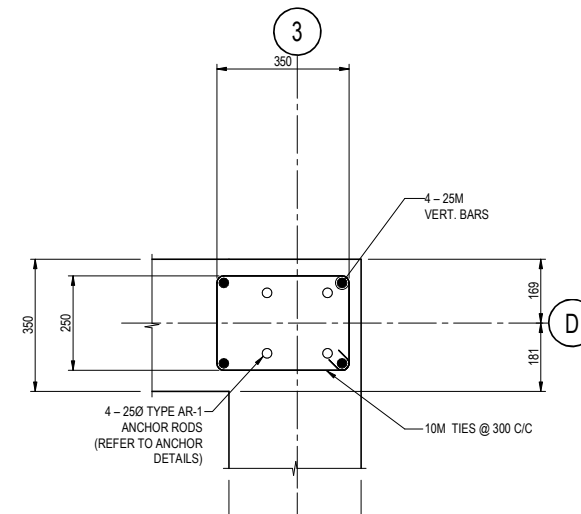
PIER PLAN - TYPE 'P2'
SCALE: 1 : 10



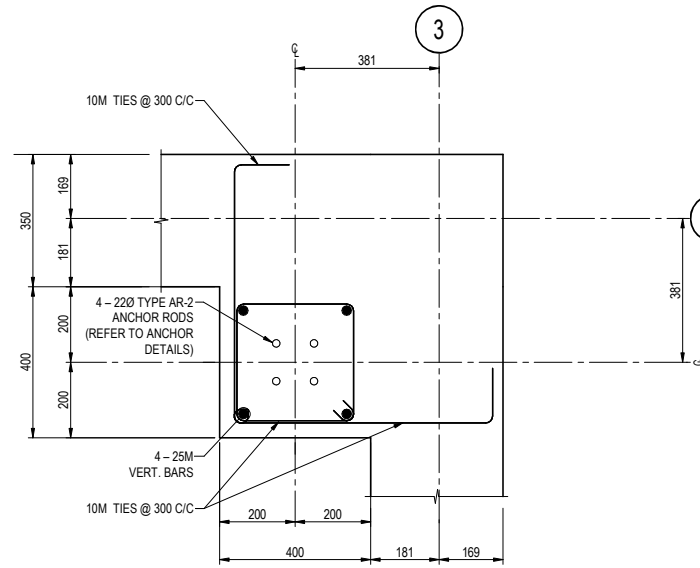
PIER PLAN - TYPE 'P3'
SCALE: 1 : 10



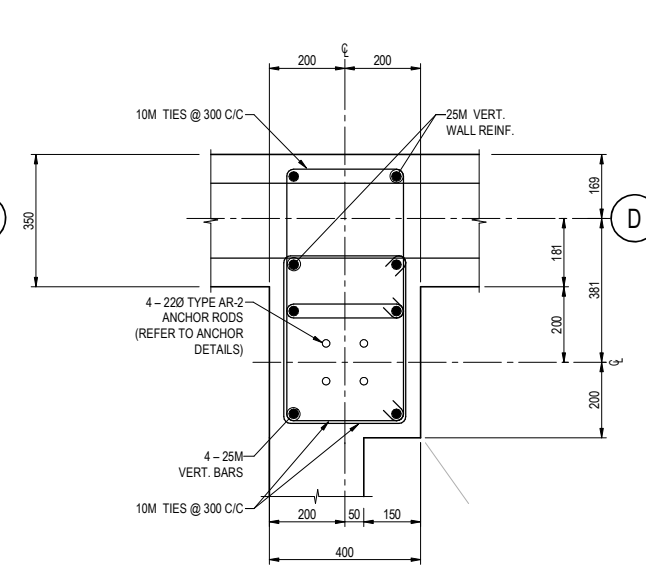
PIER PLAN - TYPE 'P4'
SCALE: 1 : 10



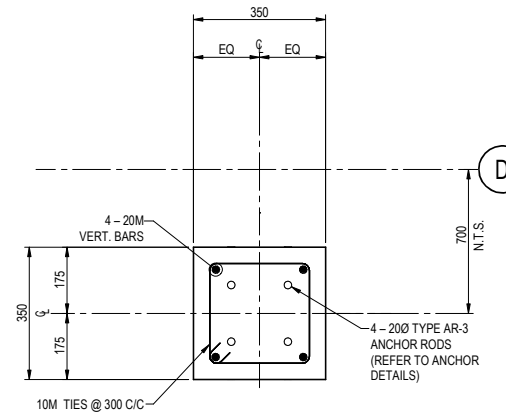
PIER PLAN - TYPE 'P5'
SCALE: 1 : 10



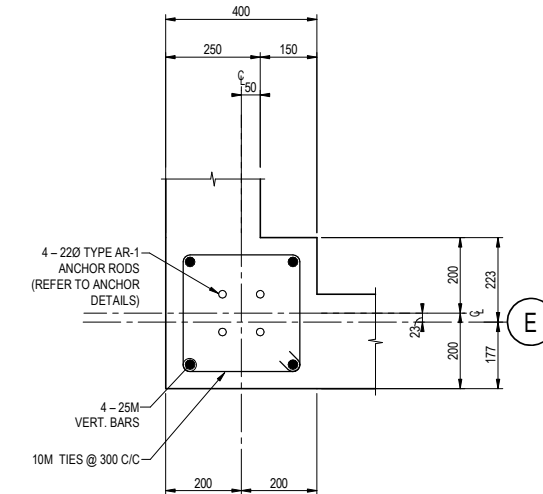
PIER PLAN - TYPE 'P6'
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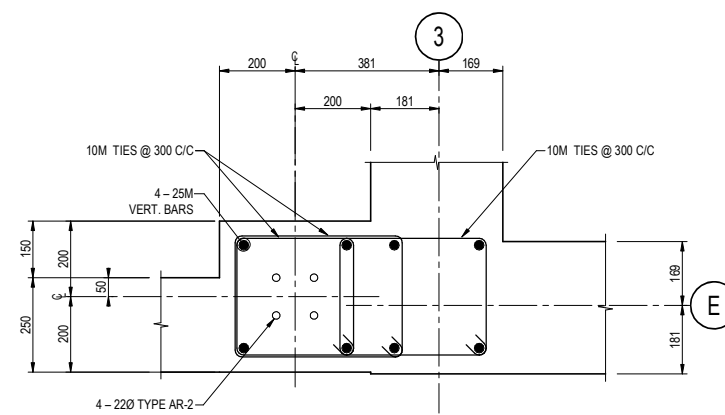
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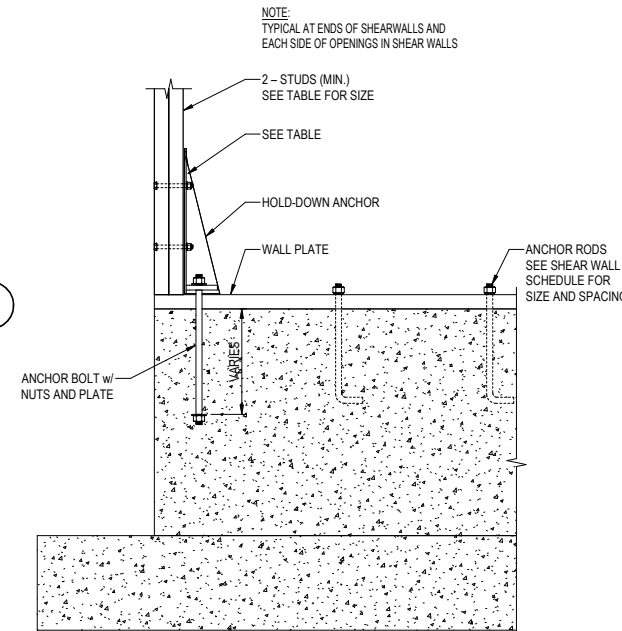
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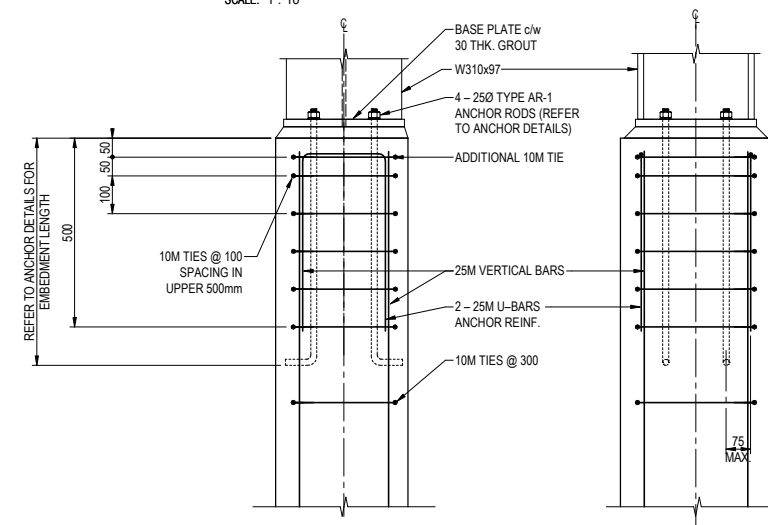
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SCALE: 1 : 10



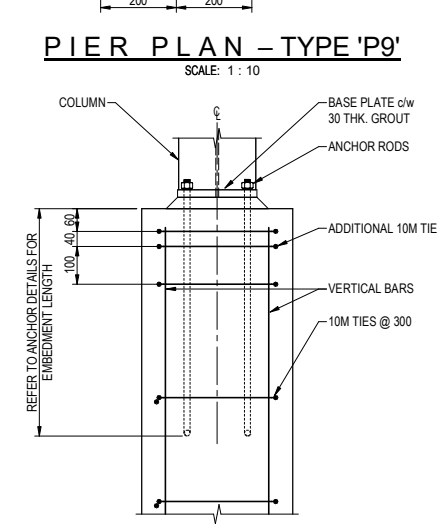
PIER PLAN - TYPE 'P10'
SCALE: 1 : 10



SHEAR WALL ANCHORAGE DETAIL
SCALE: 1 : 10



FRONT VIEW
SIDE VIEW
ADDITIONAL PILASTER REINFORCING SECTION
SCALE: 1 : 10



FRONT VIEW
TYPICAL PILASTER SECTION
SCALE: 1 : 10

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

REVISIONS	REV	DATE	BY	DESCRIPTION
△	24.10.21	BWD	ISSUED FOR TENDER	

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STRUCTURAL

SHEET

FENELON FALLS MPY
MATERIAL STORAGE BUILDING - ROOF
FRAMING PLAN, SCHEDULES, ROOF
DESIGN LOADS

44



ROOF CONSTRUCTION:
1. MINIMUM 12.5mm THICK DOUGLAS FIR OR CANADIAN SOFTWOOD PLYWOOD NAILED TO FRAMING MEMBERS WITH 75mm (3.66mm DIAMETER) LONG NAILS SPACED AT 150mm C/C ALONG PANEL EDGES AND 300mm C/C AT INTERMEDIATE FRAMING MEMBERS. PLYWOOD SHEATHING TO BE BLOCKED AT EDGES.
2. ROOF DIAPHRAGM INCLUDES SHEATHING ABOVE AND TO THE UNDERSIDE OF ROOF TRUSSES.

SHEAR WALL SCHEDULE			
TYPE	PLYWOOD	EDGE NAILS	BOTTOM PLATE ANCHOR BOLTS
SW1	12.5 DFP, ONE SIDE	3.660 x 75 LG. @ 100 C/C	160 @ 1000, 300 EMBED.
SW2	12.5 DFP, ONE SIDE	3.660 x 75 LG. @ 100 C/C	160 @ 600, 300 EMBED.
SW3	15.5 DFP, ONE SIDE	3.660 x 75 LG. @ 50 C/C	160 @ 400, 300 EMBED.

NOTE: - ALL INTERMEDIATE NAIL SPACING TO BE 300mm C/C

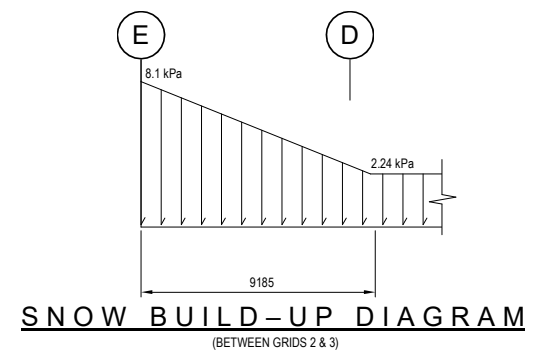
HOLD-DOWN SCHEDULE			
TYPE	HOLD DOWN	ROD DIAMETER	MINIMUM FULL LENGTH STUD @ HD
HD1	HDU 8	22	2 - 38x286

NOTE: - HD1 TO BE LOCATED AT ENDS OF EACH SHEAR WALL SW2 AND SW3 U.N.O.

LINTEL SCHEDULE		
TYPE	LINTEL/BEAM	JACKING STUD
L1	3-38x235 SPF + 1-38x286 SPF PLANK	2-38x286 SPF JACK + 133x302 PSL 2.0E KING

WALL SCHEDULE		
TYPE	STUDS	SPACING
W1	1-38x286 SPF	610 C/C
W2	1-38x286 SPF	406 C/C
W3	2-38x286 SPF	610 C/C
W4	2-38x286 SPF	406 C/C

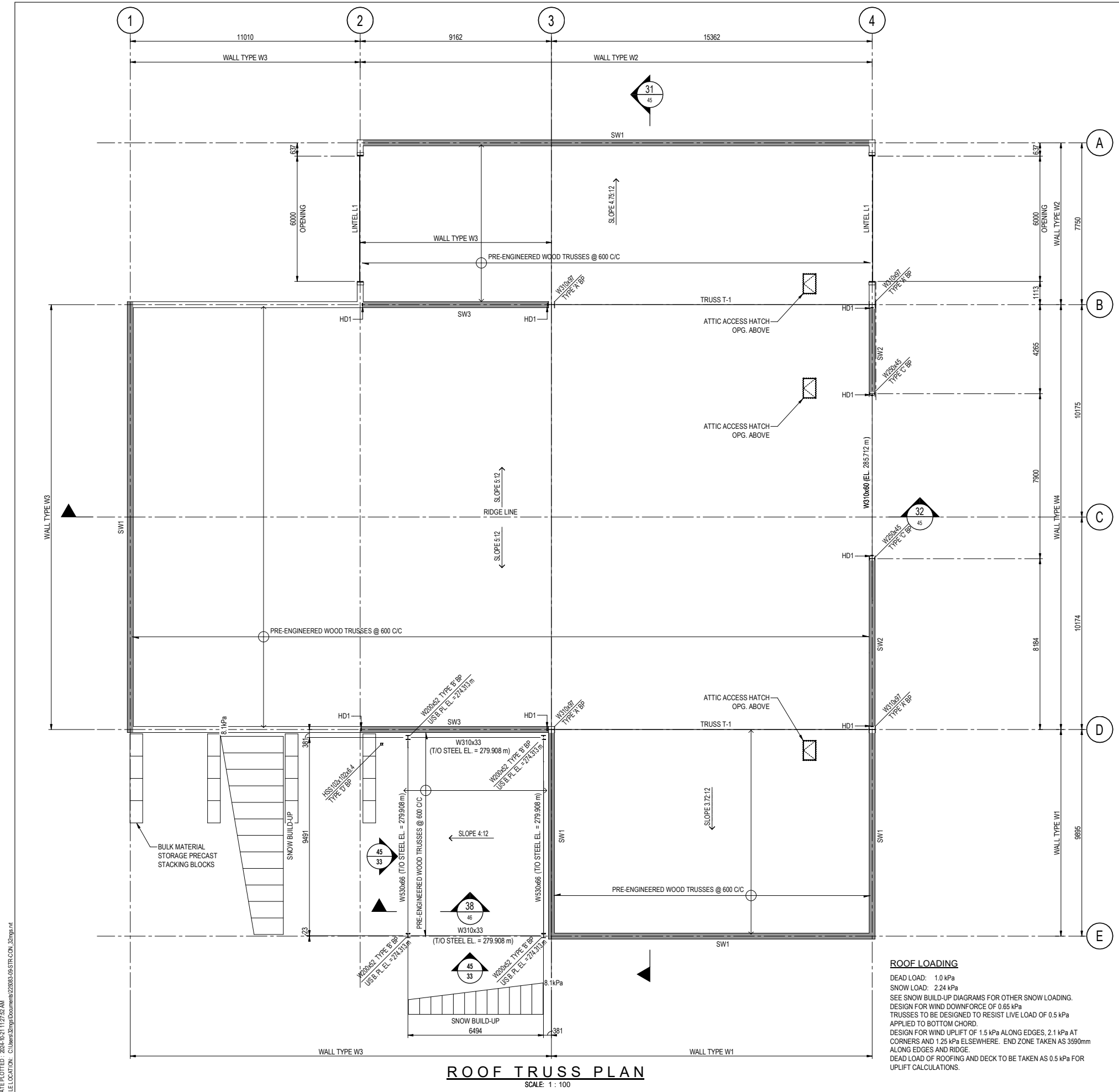
- NOTES:**
1. STUDS TO BE TOE-NAILED TO TOP AND BOTTOM PLATES WITH MINIMUM 6-64mm NAILS.
2. TOP PLATE AND BOTTOM PLATE TO BE 3-PLY AND 1-PLY, RESPECTIVELY. SEE DETAIL ON SHT. 46 FOR TOP PLATE SPLICE DETAIL.
3. REFER TO STUD SPLICE DETAIL FOR TALL WALLS.
4. ALL WALLS TO HAVE 16 DIA. BOTTOM PLATE ANCHORS SPACED AT 1000mm (MINIMUM)



ROOF LOADING
DEAD LOAD: 1.0 kPa
SNOW LOAD: 2.24 kPa
SEE SNOW BUILD-UP DIAGRAMS FOR OTHER SNOW LOADING.
DESIGN FOR WIND DOWNFORCE OF 0.65 kPa
TRUSSES TO BE DESIGNED TO RESIST LIVE LOAD OF 0.5 kPa APPLIED TO BOTTOM CHORD.
DESIGN FOR WIND UPLIFT OF 1.5 kPa ALONG EDGES, 2.1 kPa AT CORNERS AND 1.25 kPa ELSEWHERE. END ZONE TAKEN AS 3590mm ALONG EDGES AND RIDGE.
DEAD LOAD OF ROOFING AND DECK TO BE TAKEN AS 0.5 kPa FOR UPLIFT CALCULATIONS.

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

REVISIONS	DATE	BY	DESCRIPTION
1	24.10.21	BWD	ISSUED FOR TENDER



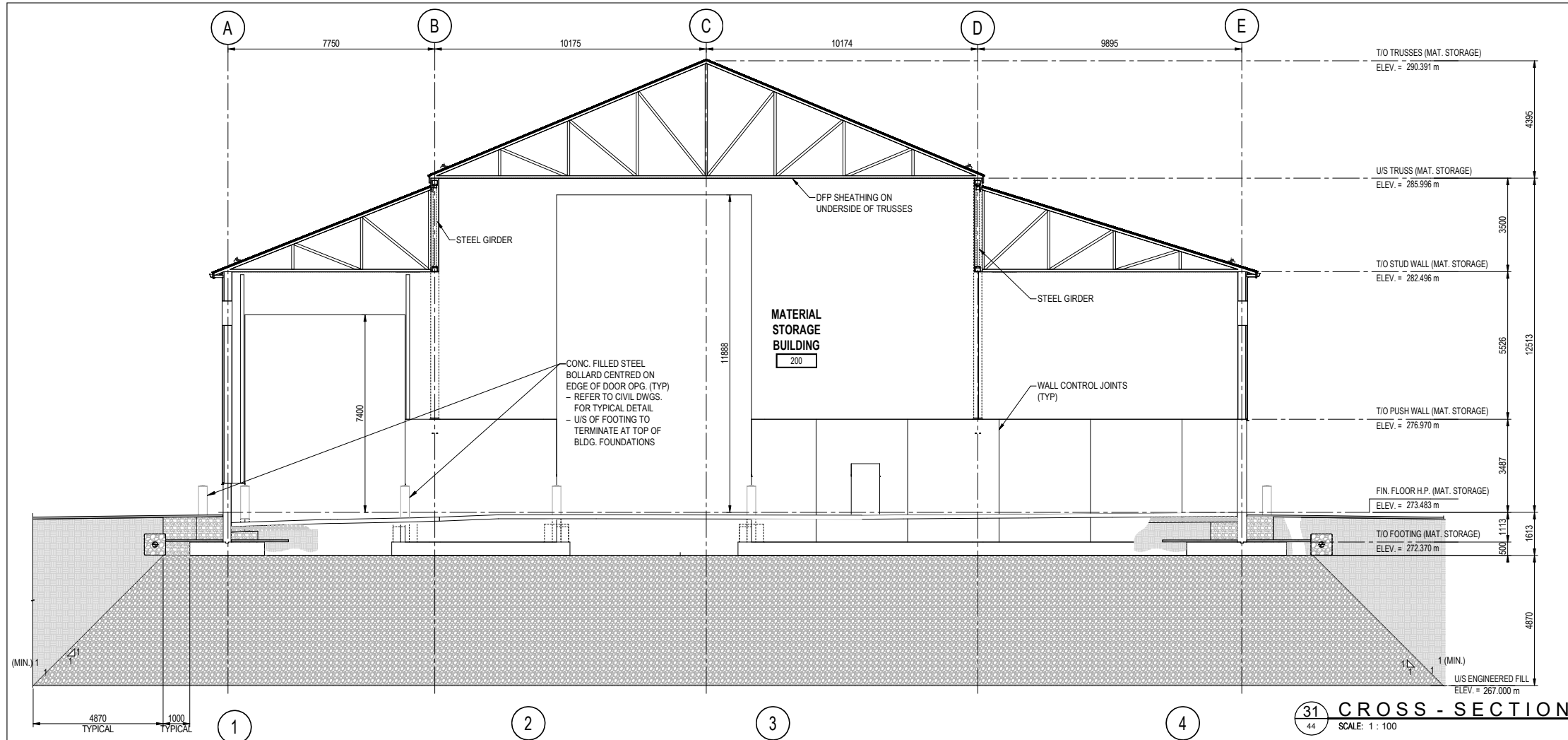
CONT No 2023-4010
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STRUCTURAL

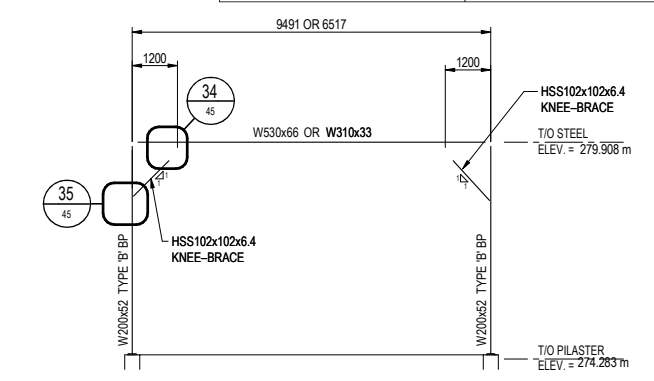
FENELON FALLS MPY
MATERIAL STORAGE BUILDING -
CROSS-SECTIONS, ELEVATION AND
DETAILS



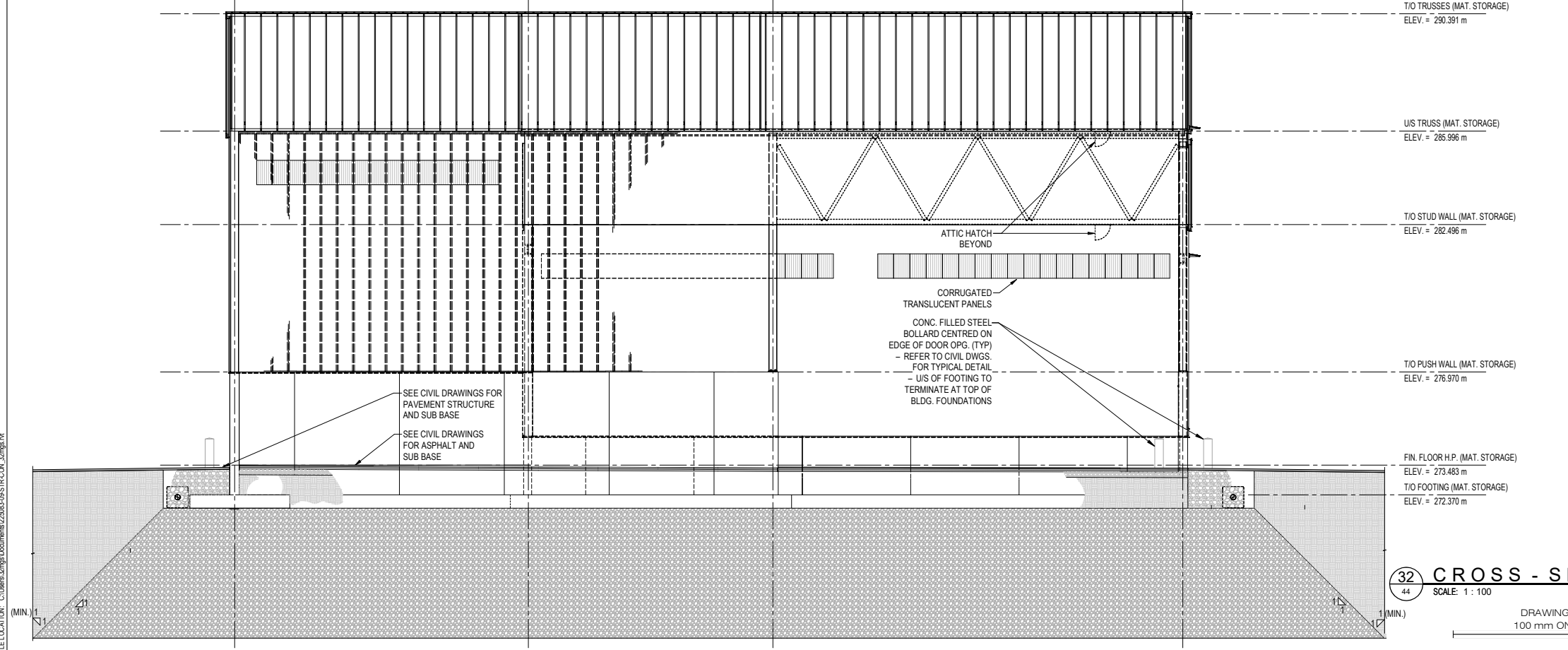
SHEET
45



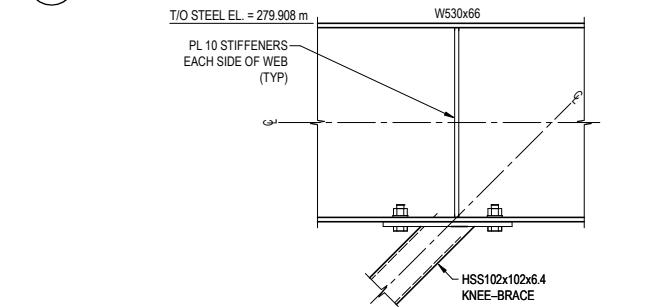
31 CROSS - SECTION
SCALE: 1 : 100



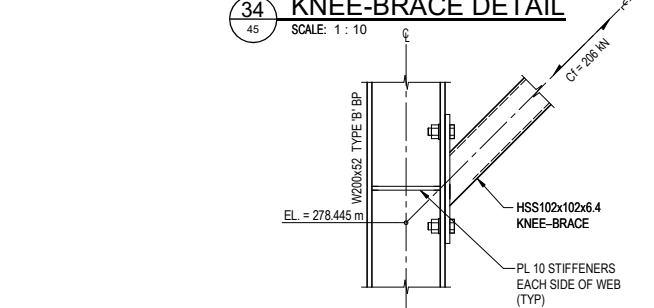
33 ELEVATION - LIQUID STORAGE STEEL FRAME
SCALE: 1 : 100



32 CROSS - SECTION
SCALE: 1 : 100



34 KNEE-BRACE DETAIL
SCALE: 1 : 10

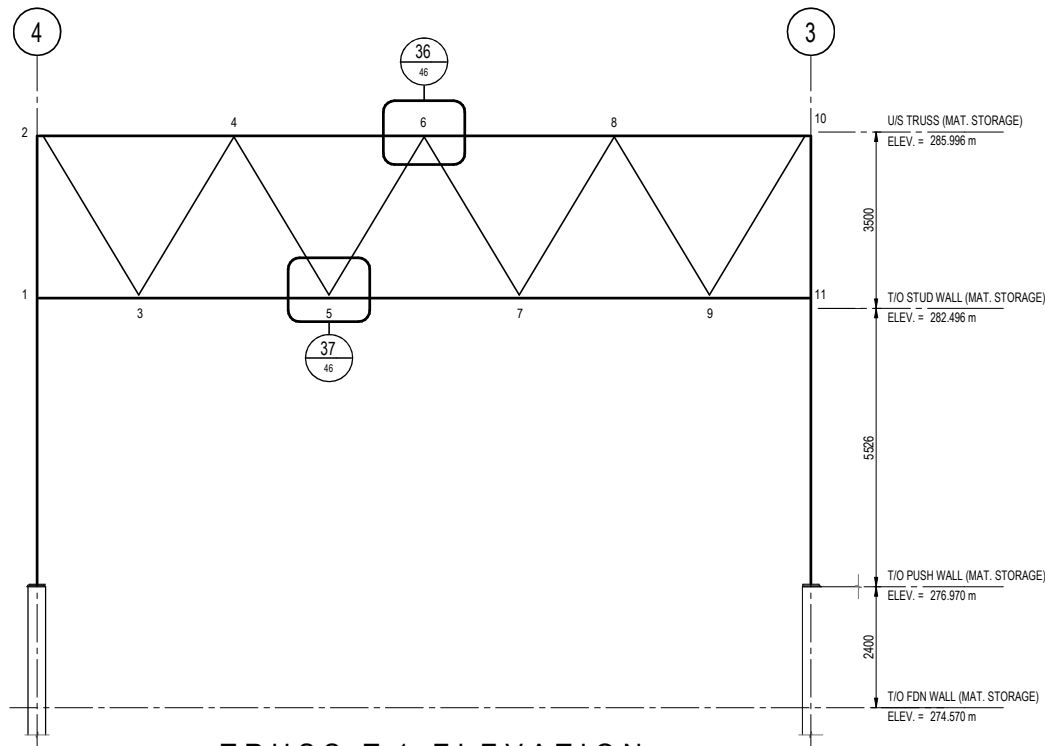


35 KNEE-BRACE DETAIL
SCALE: 1 : 10

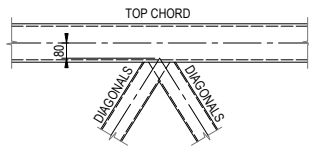
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100 mm ON ORIGINAL DRAWING

REVISIONS	REV	DATE	BY	DESCRIPTION
▲	24.10.21	BWD		ISSUED FOR TENDER

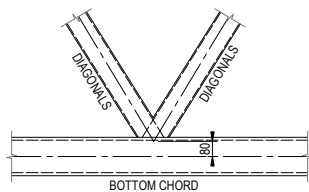
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TRUSS T-1 ELEVATION
SCALE: 1 : 75



36 DETAIL
SCALE: 1 : 20



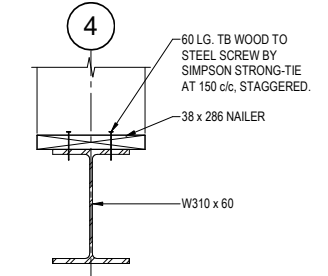
37 DETAIL
SCALE: 1 : 20

Mark	Size	Forces (kN)				
		DL	SL	LL	Uplift	
Top Chord	2 - 4	91	126	28	-70	
	4 - 6	204	283	63	-158	
	6 - 8	204	283	63	-158	
	8 - 10	91	126	28	-70	
Bottom Chord	1 - 3	-	-	-	-	
	3 - 5	-168	-234	-52	130	
	5 - 7	-220	-307	-69	171	
	7 - 9	-168	-234	-52	130	
	9 - 11	-	-	-	-	
Diagonals	2 - 3	HSS127x127x6.4	-177	-244	-55	136
	3 - 4	HSS127x127x13	149	207	46	-115
	4 - 5	HSS127x127x6.4	-68	-94	-21	52
	5 - 6		33	46	10	-26
	6 - 7	HSS127x127x6.4	33	46	10	-26
	7 - 8	HSS127x127x13	-68	-94	-21	52
	8 - 9		149	207	46	-115
	9 - 10	HSS127x127x6.4	-177	-244	-55	136
	Camber		14mm			

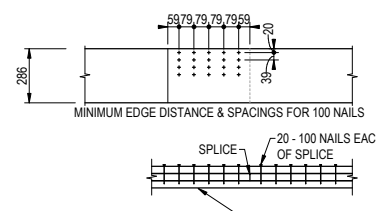
Notes: - Positive denotes compression
- Negative denotes tension
- All forces shown are unfactored

TRUSS TIE DOWN SCHEDULE	
TRUSS SPAN	HURRIANE TIE
GREATER THAN 20 m	2 - H14
LESS THAN 20 m	1 - H14

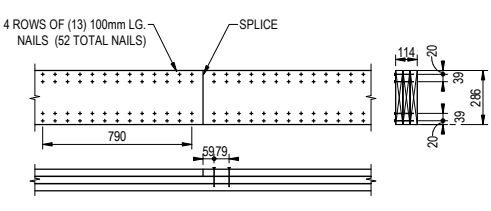
NOTE: - H14 BY SIMPSON STRONG-TIE, OR APPROVED EQUIVALENT



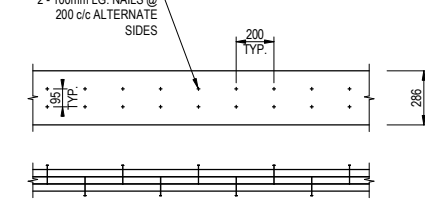
BEAM DETAIL
SCALE: 1 : 10



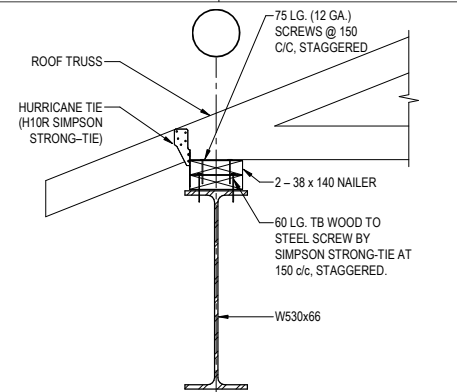
TYPICAL TOP PLATE SPLICE DETAIL
SCALE: 1 : 20



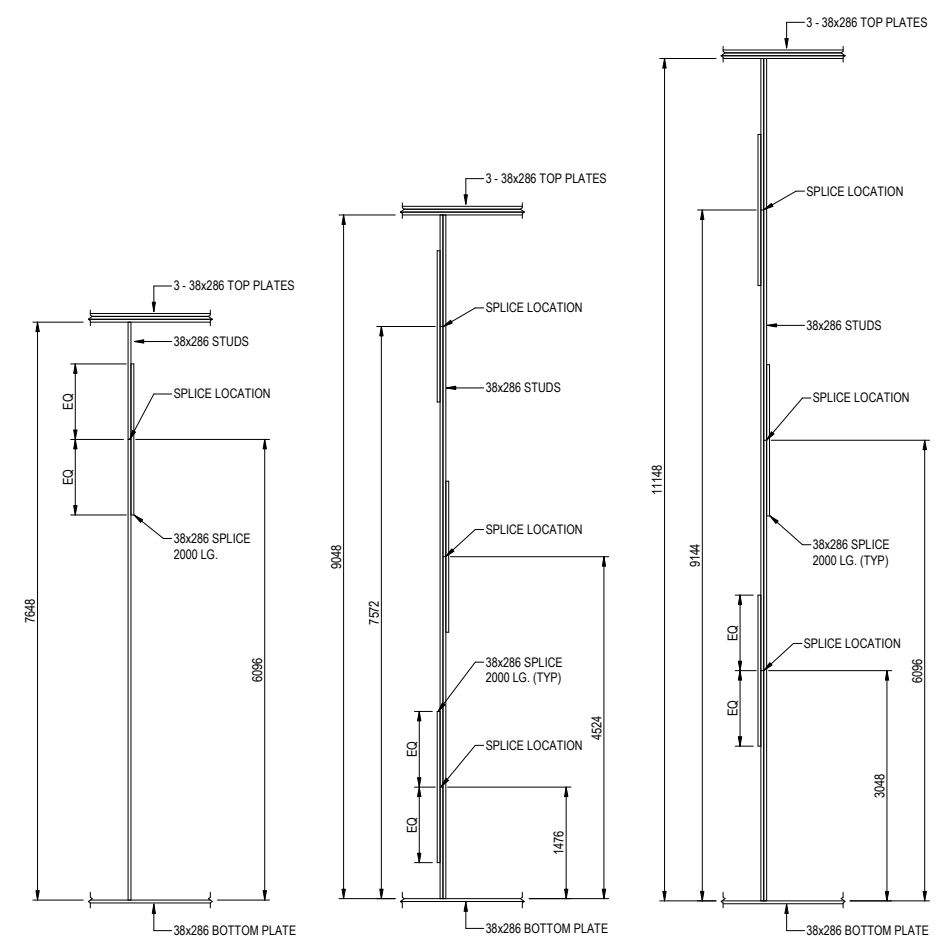
STUD SPLICE NAILING
SCALE: 1 : 20



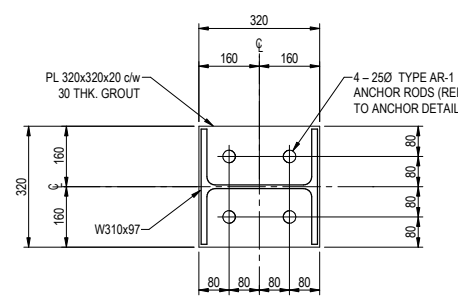
TYPICAL BUILT-UP STUD NAILING
SCALE: 1 : 20



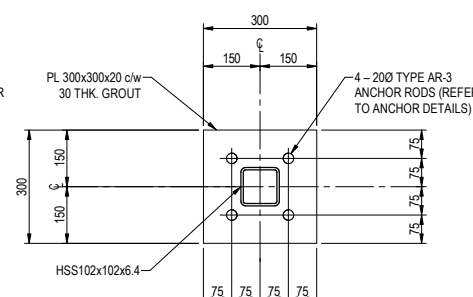
38 BEAM DETAIL @ LIQUID STORAGE
SCALE: 1 : 10



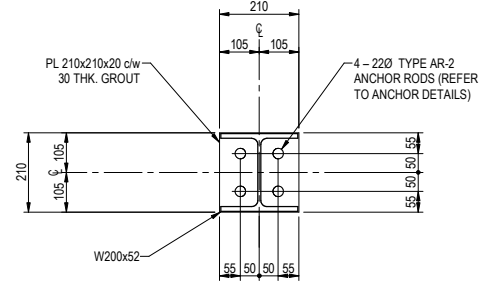
7.8m HIGH WALL STUD SPLICE DETAIL SCALE: 1 : 50
9.2m HIGH WALL STUD SPLICE DETAIL SCALE: 1 : 50
11.3m HIGH WALL STUD SPLICE DETAIL SCALE: 1 : 50



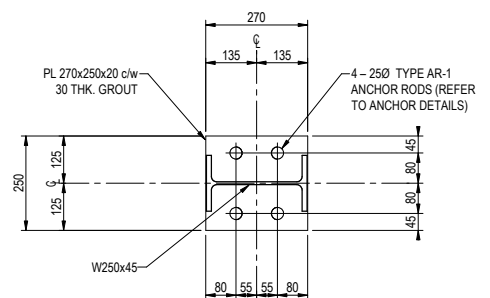
BASE PLATE - TYPE 'A'
SCALE: 1 : 10



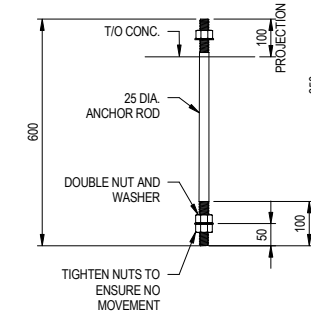
BASE PLATE - TYPE 'D'
SCALE: 1 : 10



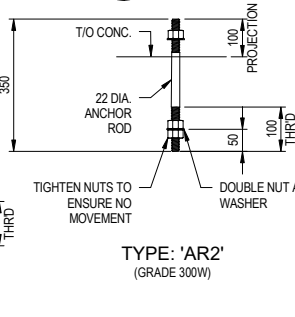
BASE PLATE - TYPE 'B'
SCALE: 1 : 10



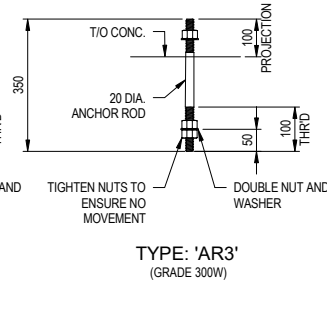
BASE PLATE - TYPE 'C'
SCALE: 1 : 10



TYPE: 'AR1'
(GRADE 300W)



TYPE: 'AR2'
(GRADE 300W)



TYPE: 'AR3'
(GRADE 300W)

ANCHOR ROD DETAILS
SCALE: 1 : 10

WOOD FRAMING NOTES

1. PROVIDE 38x140 BLOCKING AT ALL PLYWOOD EDGE JOINTS. SEE WALL SCHEDULE FOR STUD SIZE AND SPACING.
2. CONNECT SILL PLATE TO FOUNDATION WALL WITH ASTM A36 ANCHOR BOLTS. ANCHOR BOLTS TO HAVE 75mm HOOK. SEE SHEAR WALL SCHEDULE FOR BOLT SIZE AND SPACING.
3. ALL TEMPORARY ERECTION BRACING OF TRUSSES BY CONTRACTOR.
4. FASTEN EACH END OF EACH TRUSS TO WALL TOP PLATE WITH H14 HURRICANE TIE BY SIMPSON STRONG-TIE (SEE TRUSS TIE DOWN SCHEDULE FOR MORE DETAIL). WHERE TRUSSES RUN PARALLEL TO WALL, PROVIDE 38x89 BLOCKING BETWEEN THE WALL AND THE FIRST TRUSS @ 1200 O.C. AND FASTEN EACH PIECE OF BLOCKING TO WALL TOP PLATE WITH H1 ANCHOR BY SIMPSON STRONG-TIE.

WOOD NOTES

1. ALL WOOD TO BE SPF NO. 2 OR BETTER.
2. STAGGER JOINTS FOR ALL SHEATHING.
3. ALL PLYWOOD TO BE UNSANDED EXTERIOR GRADE CANADIAN SOFTWOOD PLYWOOD TO CSA 0151 OR UNSANDED EXTERIOR GRADE DOUGLAS FIR PLYWOOD TO CSA 0121.
4. FRAMING AND NAILING DETAILS TO PART 9 OF THE ONTARIO BUILDING CODE, UNLESS NOTED OTHERWISE.

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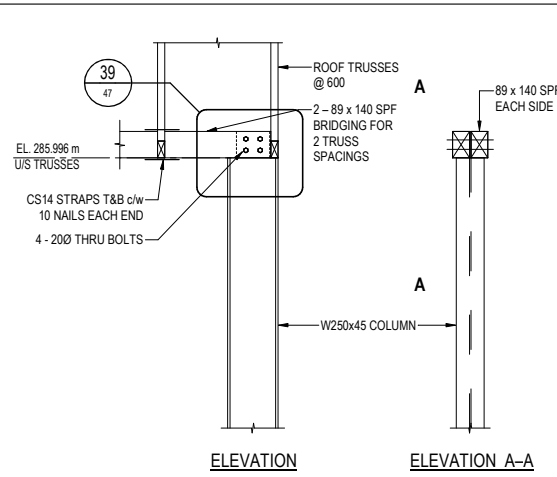
CONT No 2023-4010
GWP No 4044-22-00

STRUCTURAL SHEET 46

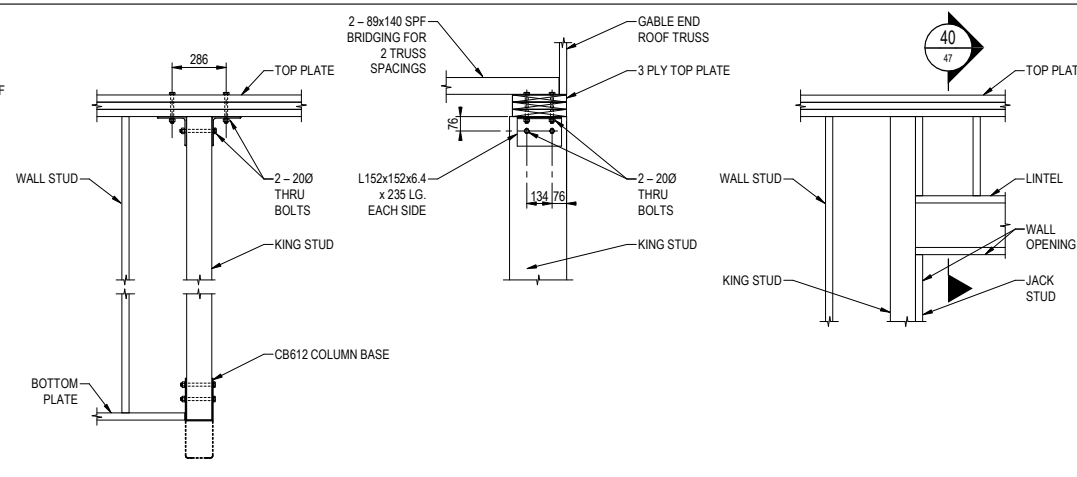
FENELON FALLS MPY
MATERIAL STORAGE BUILDING -
SCHEDULES, TRUSS & WALL FRAMING
DETAILS

DILLON CONSULTING

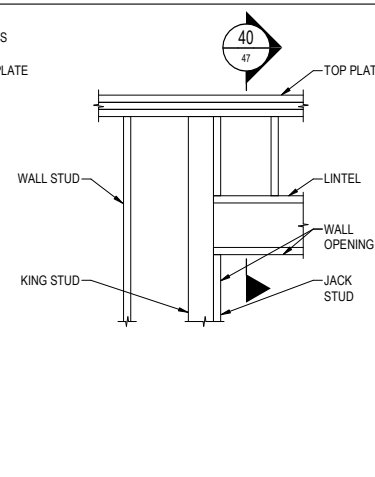
LICENSED PROFESSIONAL ENGINEER
L. T. ANTLE
100553537
Oct 21, 2024
PROVINCE OF ONTARIO



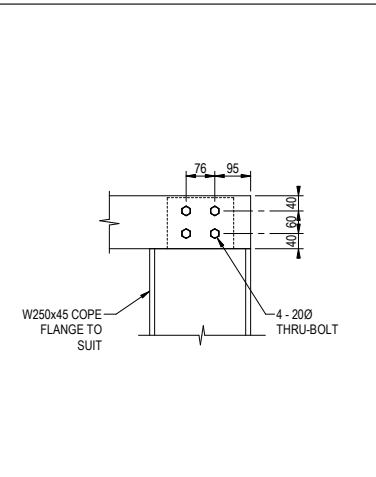
WIND COLUMN CONNECTION DETAIL
SCALE: 1 : 20



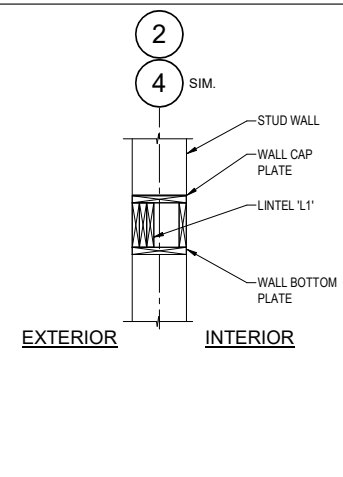
LINTEL 'L1' BASE AND CAP DETAIL
SCALE: 1 : 20



WALL OPENING ELEVATION
SCALE: 1 : 20



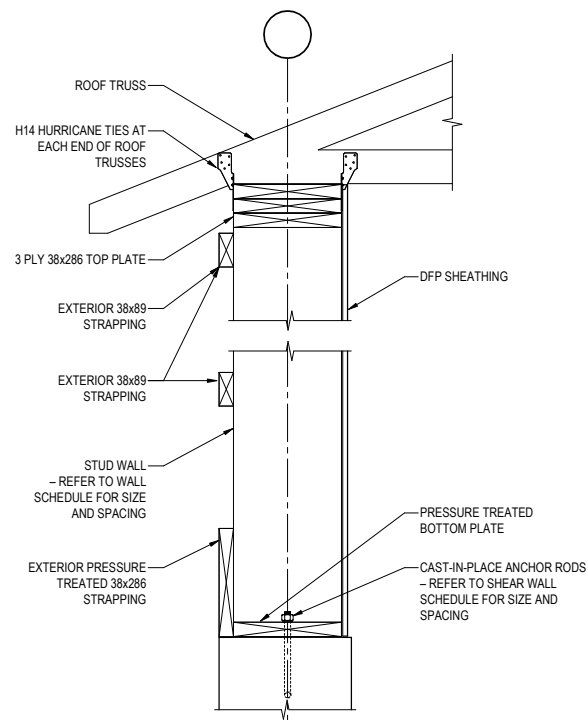
39 BOLT SPACING DETAIL
SCALE: 1 : 10



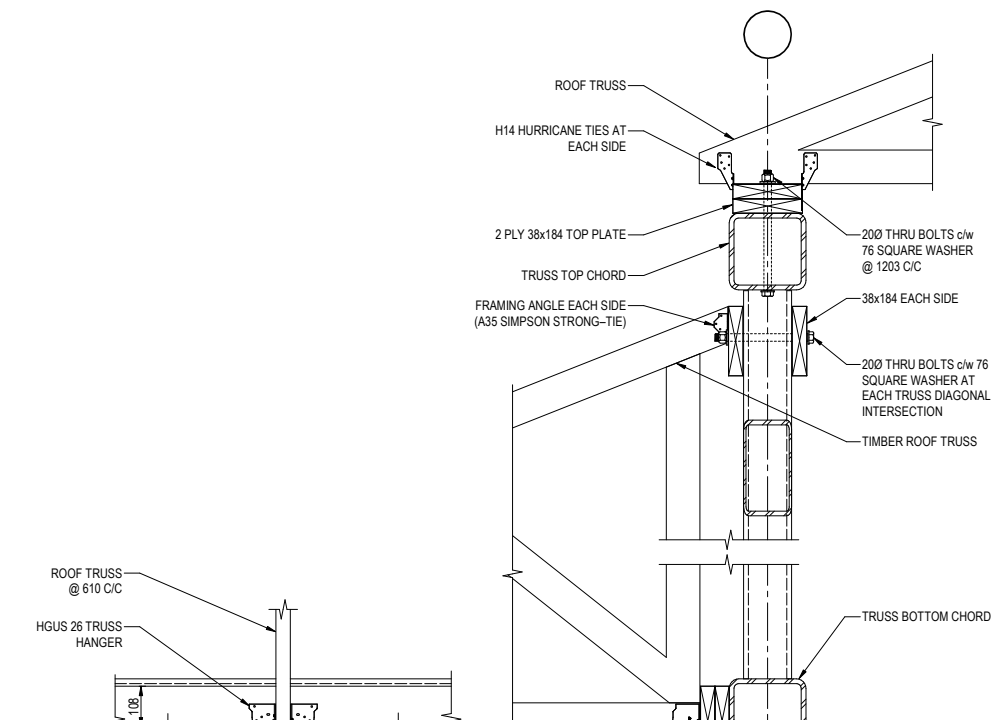
40 LINTEL DETAIL
SCALE: 1 : 20

CONT No 2023-4010
GWP No 4044-22-00
STRUCTURAL
FENELON FALLS MPY
MATERIAL STORAGE BUILDING - TRUSS & WALL FRAMING DETAILS

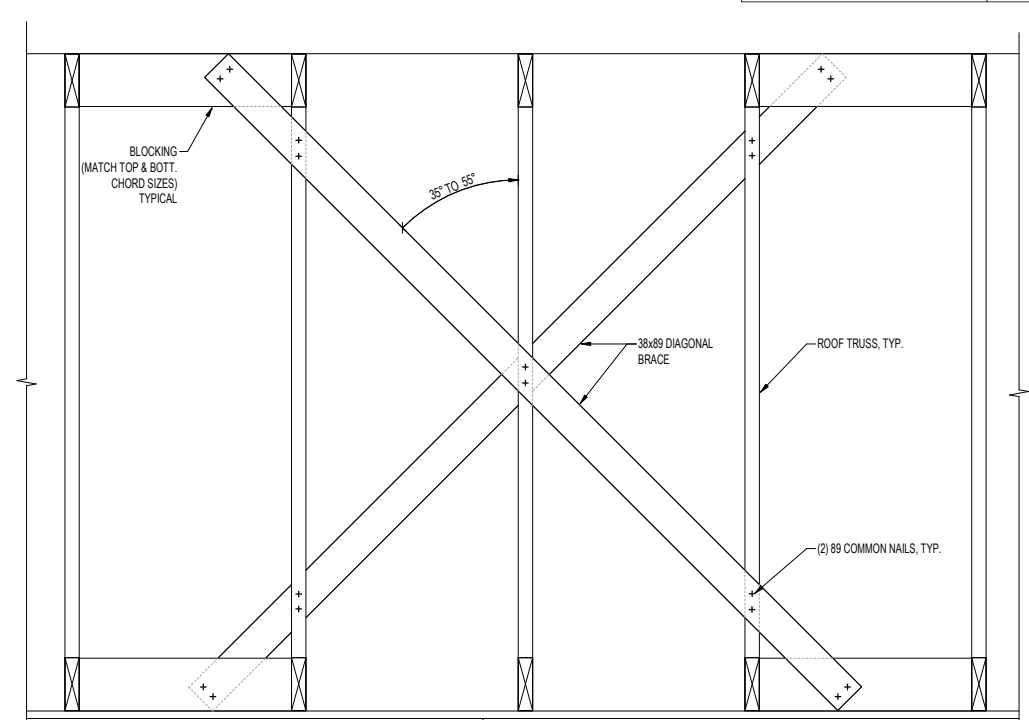
SHEET
47



TYPICAL EXTERIOR WALL DETAILS
SCALE: 1 : 10

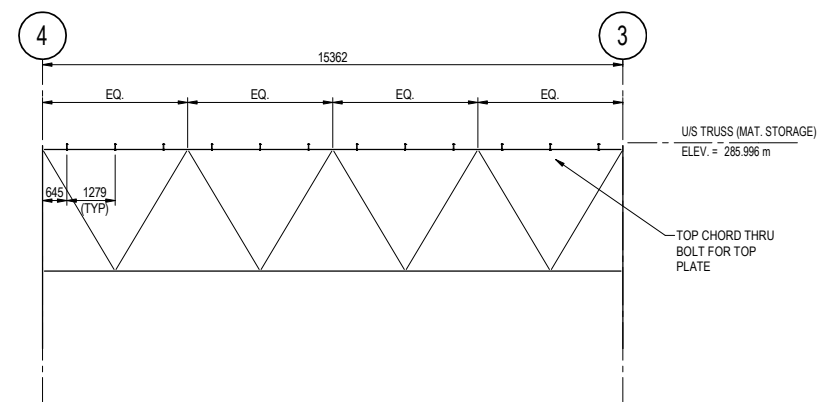


ROOF TRUSS TO STEEL GIRDER CONNECTIONS
SCALE: 1 : 10



NOTE:
- BRACING TO BE INSTALLED AT EACH END OF THE LATERAL BRACING RUN AND AT 6000 O/C MAXIMUM IN BETWEEN, U.N.O.
- ALSO, INSTALL BRACING AT 3600 TO 4800 INTERVALS ALONG THE SPAN OF THE TRUSSES.
- REFER TO BSCA FOR REQUIRED LATERAL BRACING OF TRUSSES.
- INSTALL LATERAL BRACES ABOVE SHEAR WALLS PERPENDICULAR TO TRUSSES.

TYPICAL TRUSS CROSS-BRACING
SCALE: 1 : 10



TOP CHORD THRU BOLT LOCATION
SCALE: 1 : 100

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100 mm ON ORIGINAL DRAWING

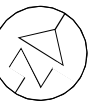
REVISIONS	REV	DATE	BY	DESCRIPTION
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△	24.10.21	BWD	BWD	ISSUED FOR TENDER

DATE PLOTTED: 2024-09-21 11:27:59 AM
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CONT No 2023-4010
GWP No 4044-22-00

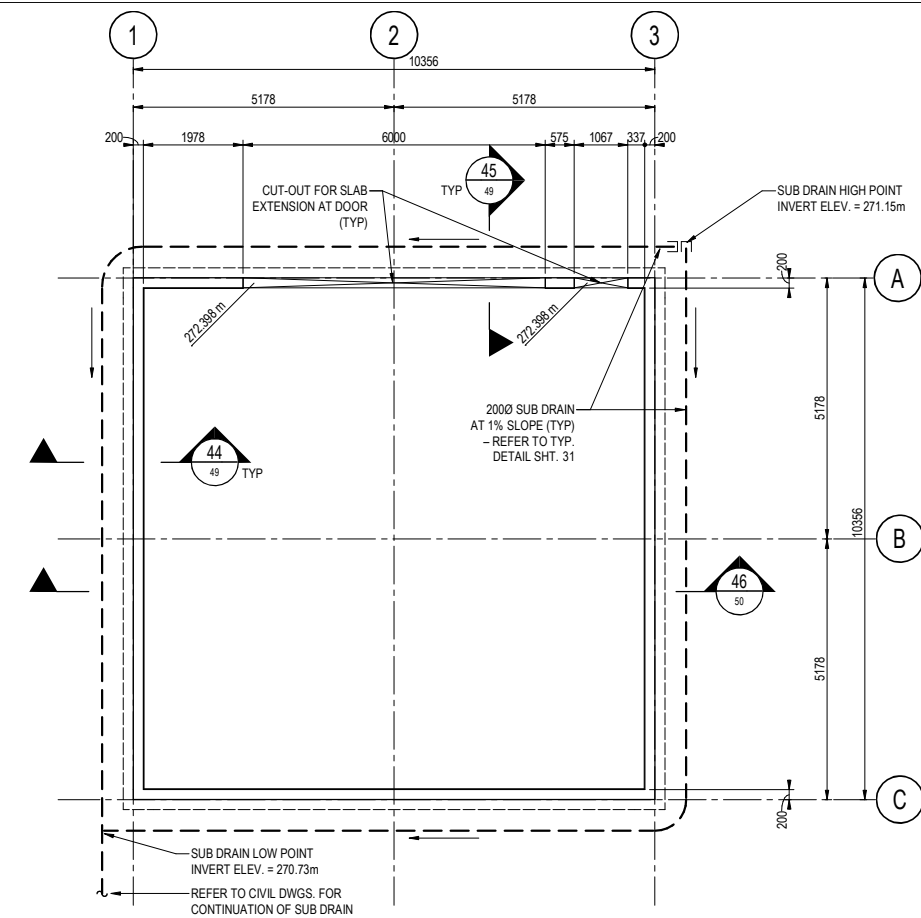
STRUCTURAL

FENELON FALLS MPY
AUXILIARY STORAGE BUILDING - PLANS,
SECTIONS AND DETAILS

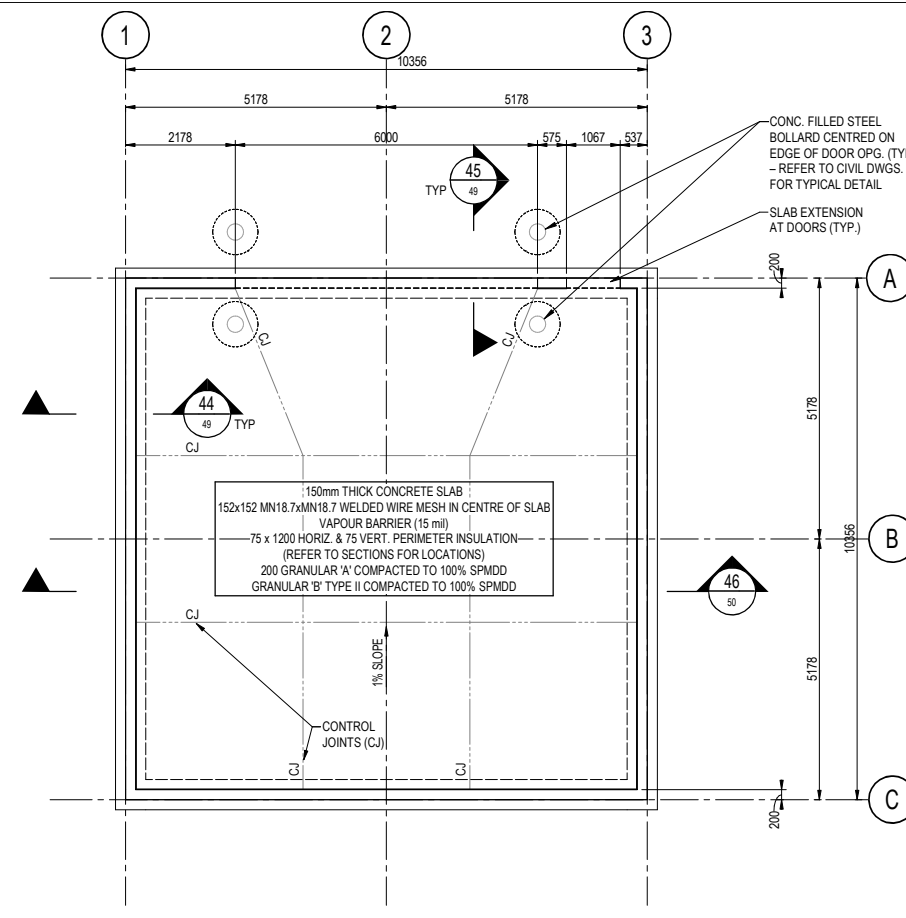


SHEET

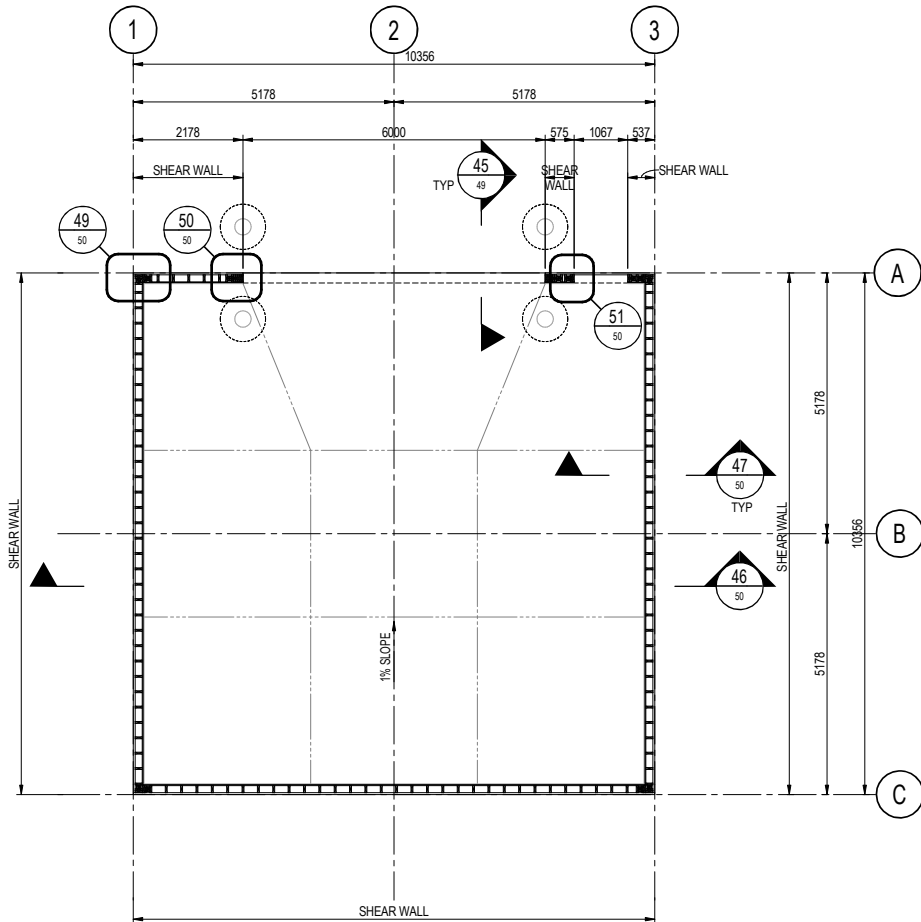
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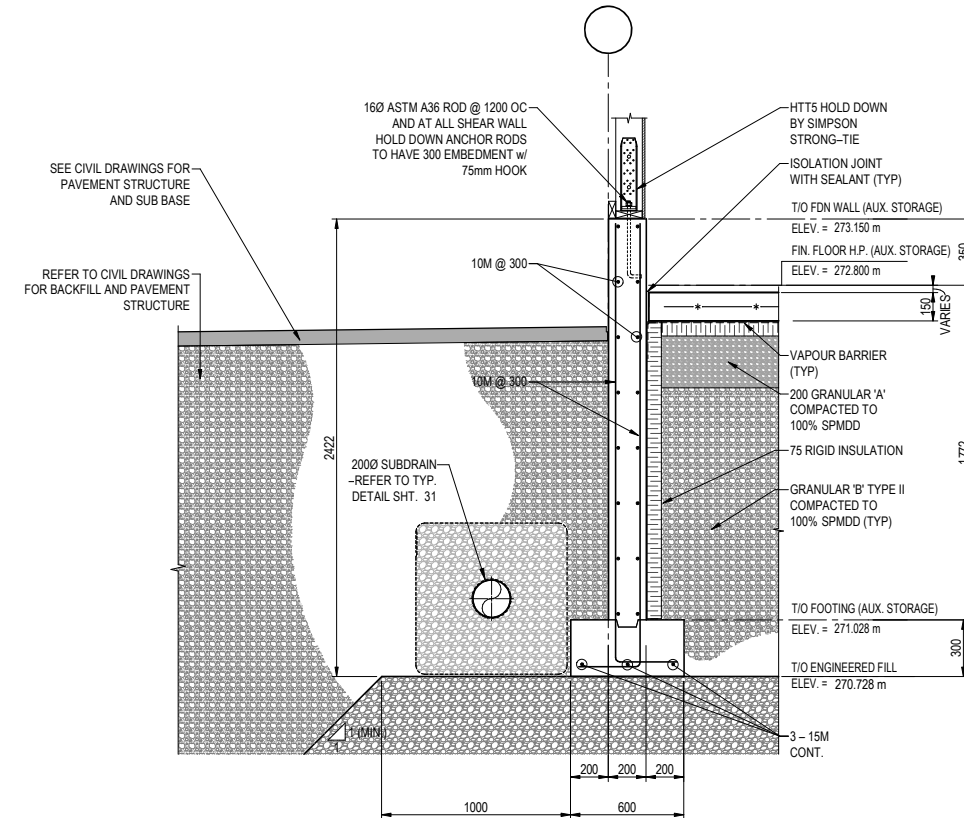
FOUNDATION PLAN
SCALE: 1 : 75



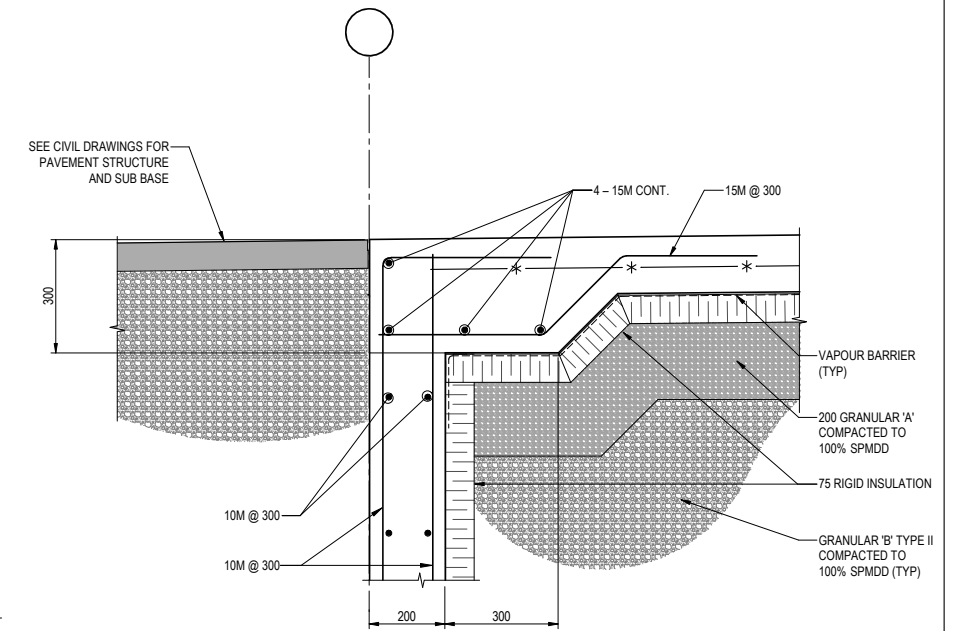
CONCRETE SLAB PLAN
SCALE: 1 : 75



WALL FRAMING PLAN
SCALE: 1 : 75



44 SECTION
SCALE: 1 : 20



45 SECTION
SCALE: 1 : 10

- NOTES:**
FRAMING NOTES:
- WALL STUDS TO BE 38x140 @ 300 C/C. PROVIDE 38x140 BLOCKING AT ALL PLYWOOD EDGE JOINTS.
 - CONNECT SILL PLATE TO FOUNDATION WALL WITH 16 DIAMETER ASTM A36 ANCHOR BOLTS @ 1200 C.C. ANCHOR BOLTS TO HAVE 75mm HOOK.
 - PLYWOOD SHEATHING FOR INTERIOR OF SHEAR WALL. AT TOP OF ROOF TRUSSES AND UNDERSIDE OF ROOF TRUSSES TO BE FASTENED WITH 75mm COMMON WIRE NAILS @ 150mm SPACING.
 - ROOF LOADING: (EXCLUDING WEIGHT OF TRUSSES AND FRAMING)
 - 2.24 kPa ULS SNOW LOAD
 - 0.30 kPa SUPERIMPOSED TOP CHORD DEAD LOAD
 - 0.35 kPa SUPERIMPOSED BOTTOM CHORD DEAD LOAD
 - 0.50 kPa BOTTOM CHORD ATTIC LIVE LOAD
 - 1.79 kPa TOP CHORD WIND LOAD SUCTION
 - 0.49 kPa BOTTOM CHORD WIND LOAD PRESSURE OR SUCTION
 - ALL TEMPORARY ERECTION BRACING OF TRUSSES BY CONTRACTOR.
 - EACH END OF EACH SHEAR WALL SEGMENT SHALL HAVE A 2-38x140 BUILT-UP SECTION FASTENED TO THE FOUNDATION WITH A HTTS HOLD DOWN BY SIMPSON STRONG-TIE WITH 16 DIA. ANCHOR ROD. FASTENERS FOR HOLD DOWN TO BE 160 COMMON NAILS. FASTEN EACH 2-38x140 BUILT-UP SECTION TO TOP PLATE WITH 2-SPH6 TIES BY SIMPSON STRONG TIE.
 - FASTEN EACH END OF EACH TRUSS TO WALL TOP PLATE WITH H10A ANCHOR BY SIMPSON STRONG-TIE WHERE TRUSSES RUN PARALLEL TO WALL. PROVIDE 38x89 BLOCKING BETWEEN THE WALL AND THE FIRST TRUSS @ 1200 O.C. AND FASTEN EACH PIECE OF BLOCKING TO WALL TOP PLATE WITH H1 ANCHOR BY SIMPSON STRONG-TIE.

DRAWING NOT TO BE SCALED
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REVISIONS	DATE	BY	DESCRIPTION
REV 1	24.10.21	BWD	ISSUED FOR TENDER

DATE PLOTTED: 2024-05-18 1:44:09 PM
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CONT No 2023-4010
GWP No 4044-22-00

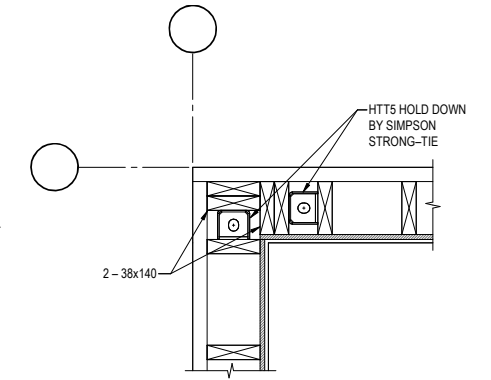


STRUCTURAL

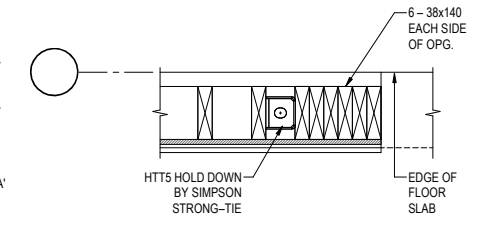
SHEET

FENELON FALLS MPY
AUXILIARY STORAGE BUILDING - ROOF
FRAMING PLAN, SECTIONS AND DETAILS

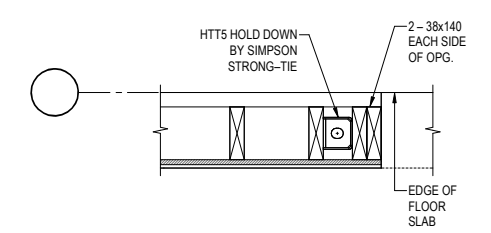
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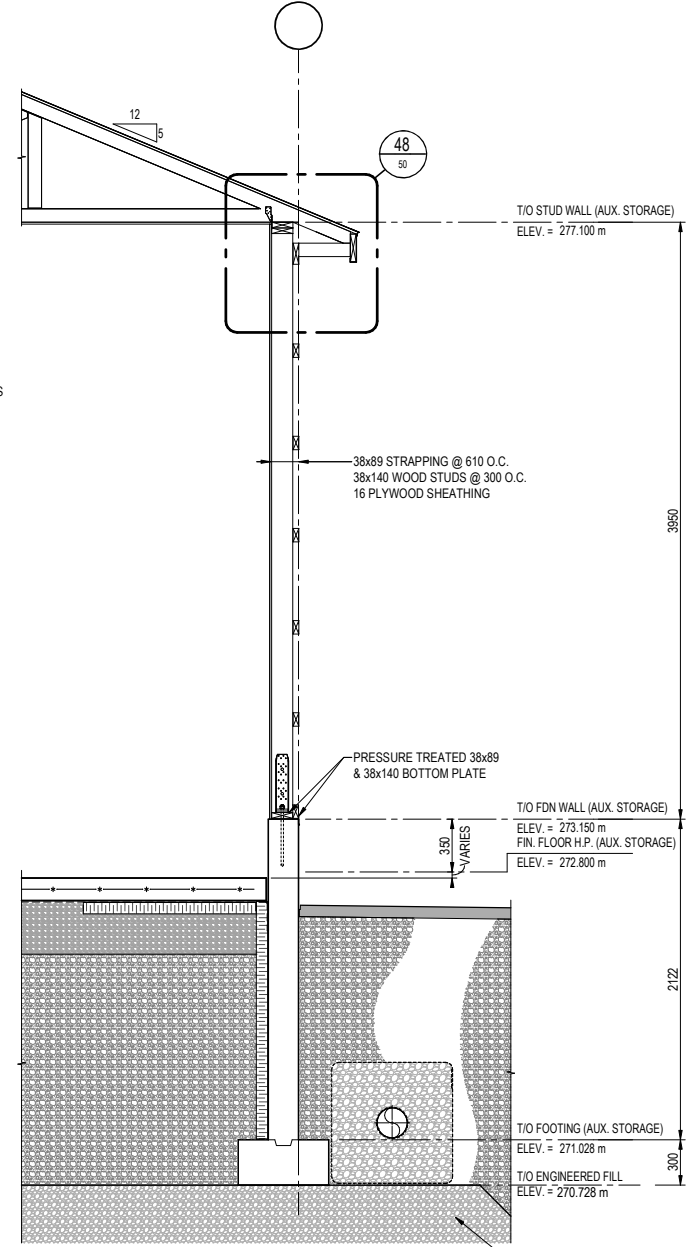
49 DETAIL
SCALE: 1:10



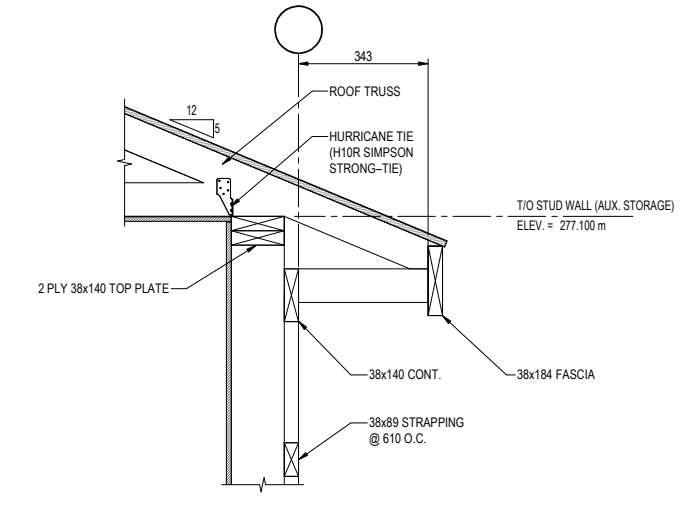
50 DETAIL
SCALE: 1:10



51 DETAIL
SCALE: 1:10

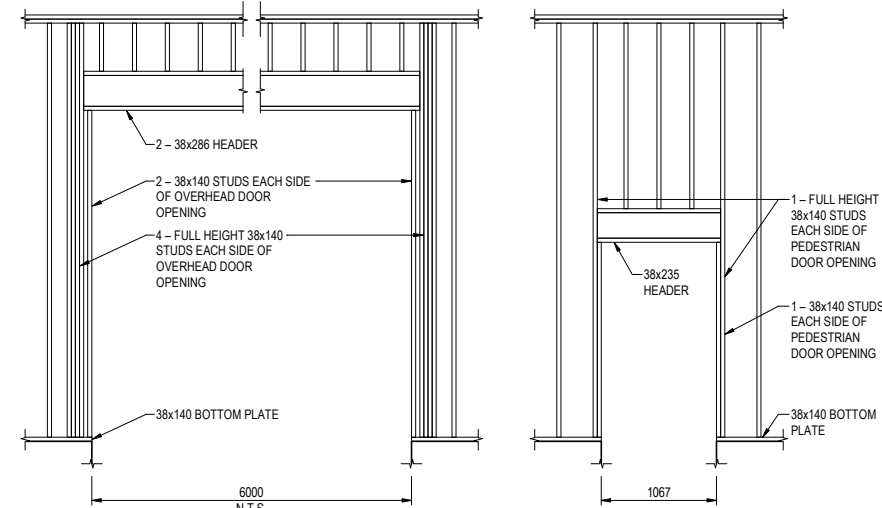


47 SECTION
SCALE: 1:25

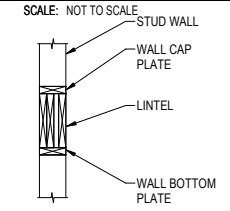


48 DETAIL
SCALE: 1:10

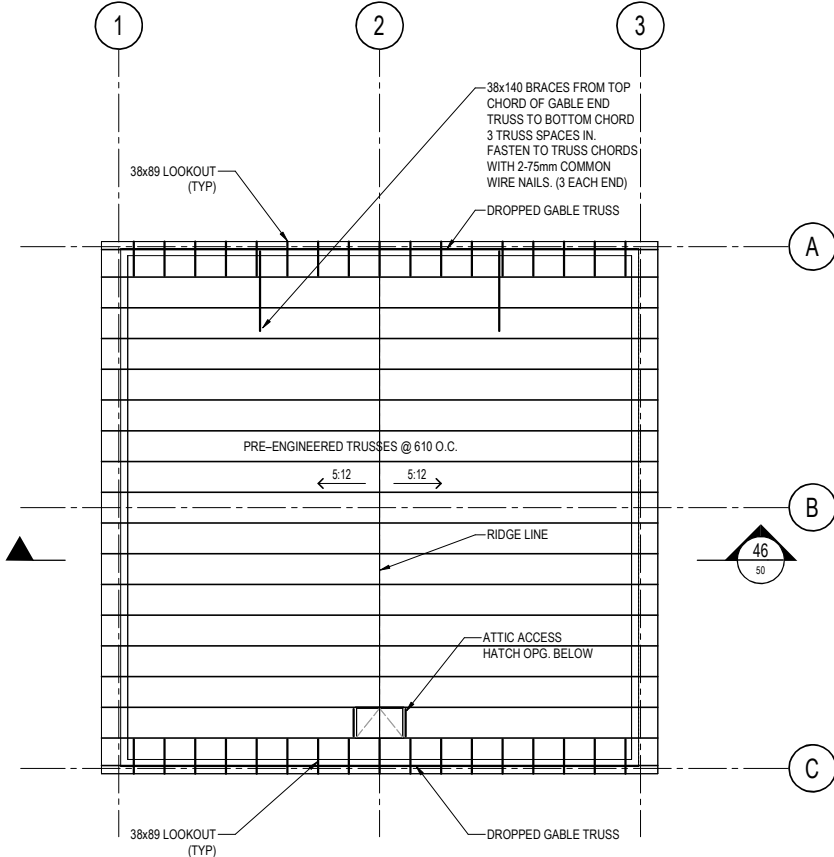
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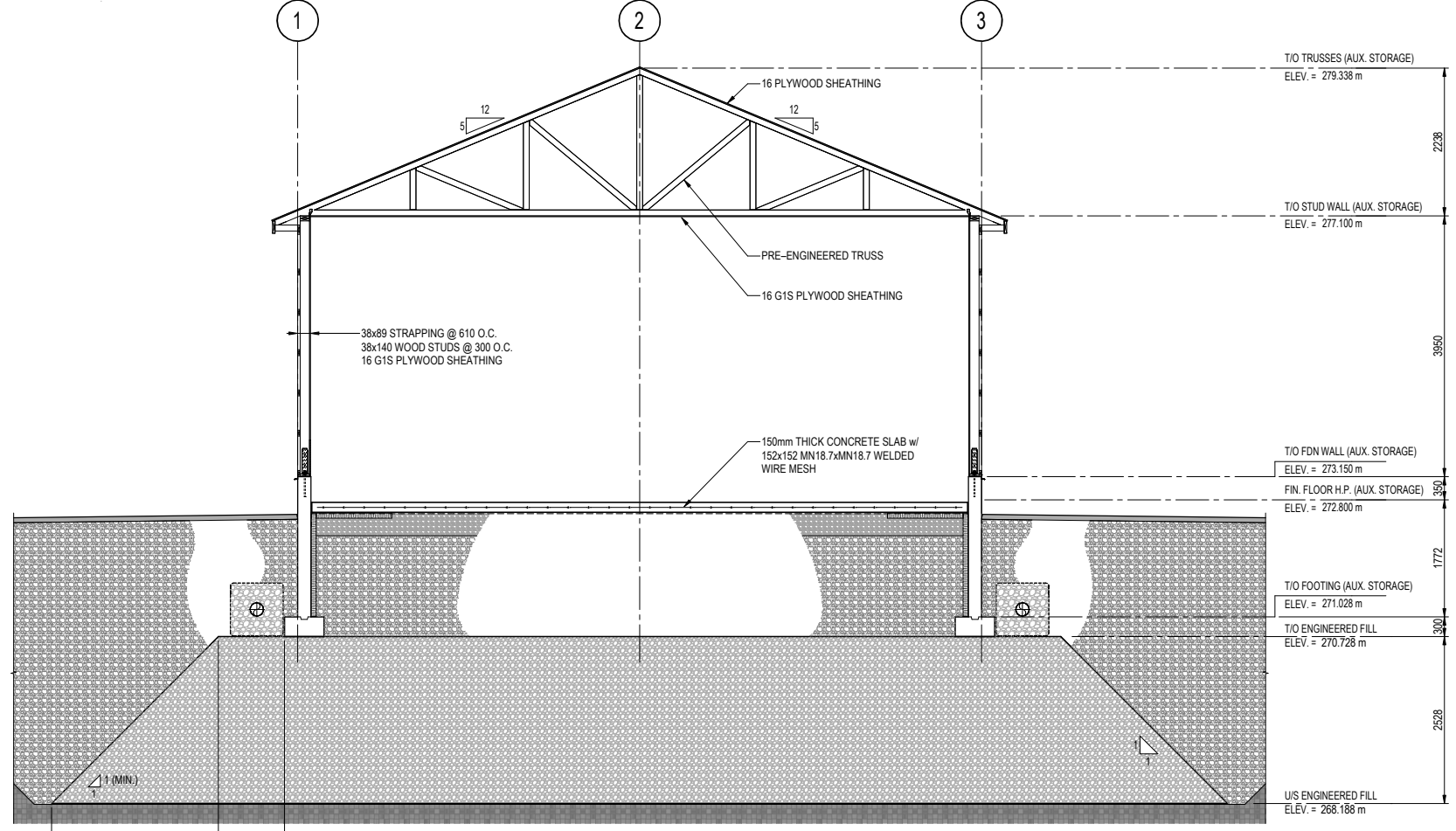
WALL OPENING FRAMING ELEVATIONS



EXTERIOR INTERIOR
LINTEL DETAIL
SCALE: 1:20



ROOF FRAMING PLAN
SCALE: 1:75



46 SECTION
SCALE: 1:50

DATE PLOTTED: 2024-05-18 14:12 PM
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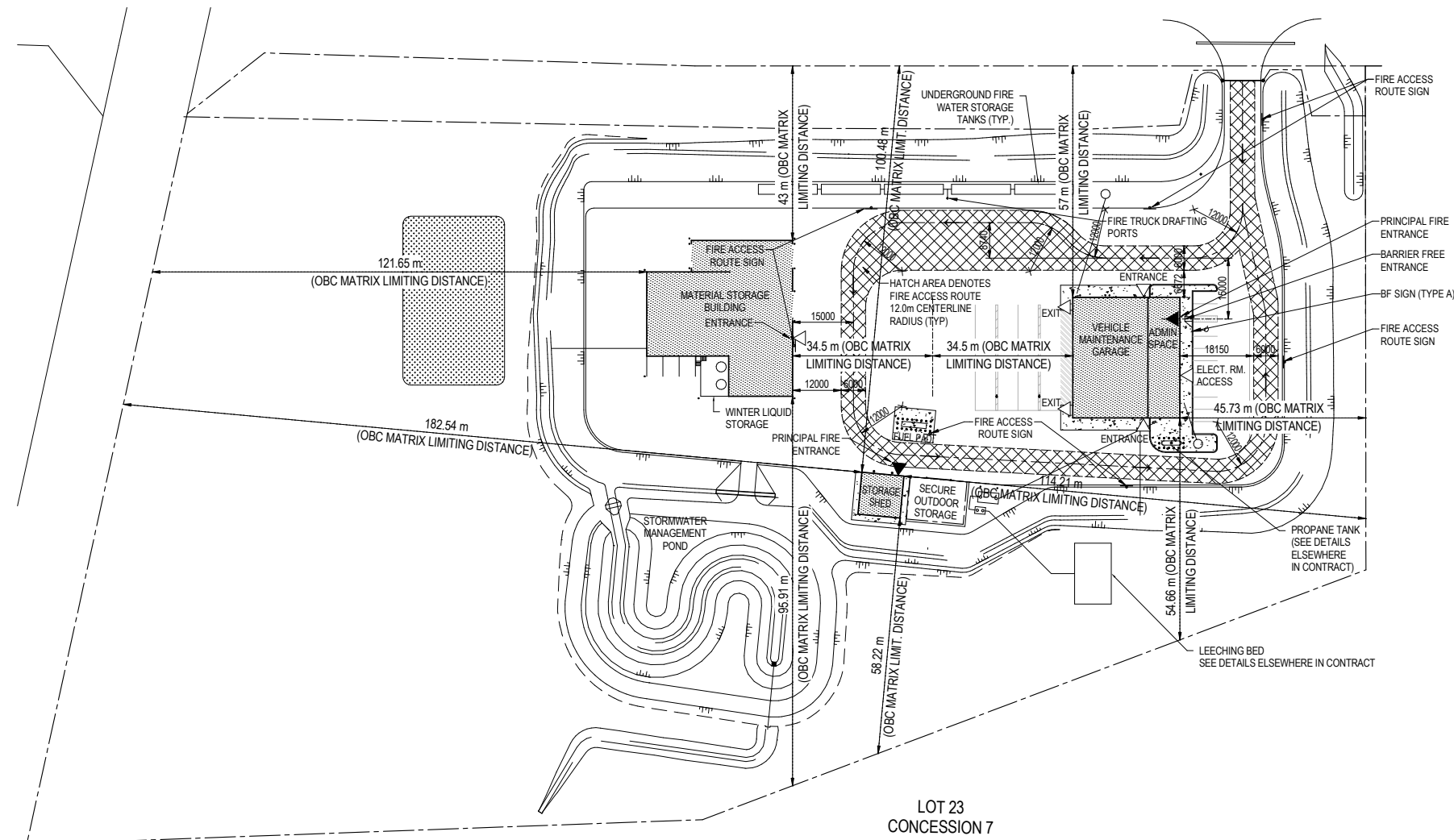
CONT No 2023-4010
GWP No 4044-22-00



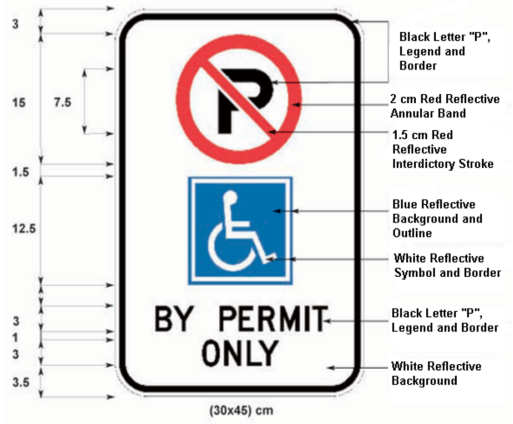
ARCHITECTURAL
FENELON FALLS MPY
SITE PLAN

SHEET
51

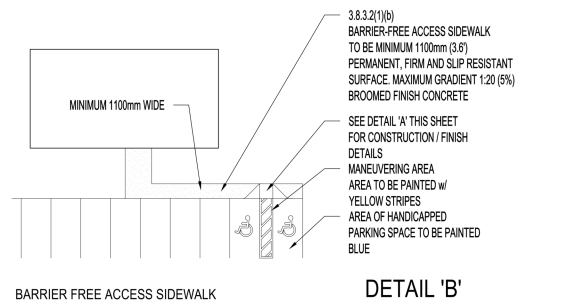
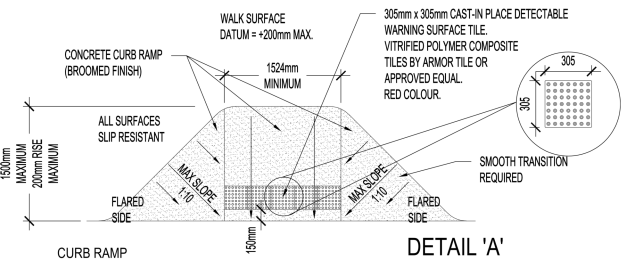
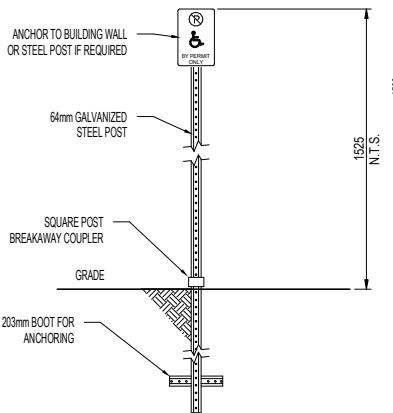
DILLON
Building Design Ltd.
Engineers and Architects
130 Dufferin Avenue, London, Ontario, N6A 5R2
Phone: (519) 438-6192, Fax: (519) 672-9209
E-mail: london@dillon.ca



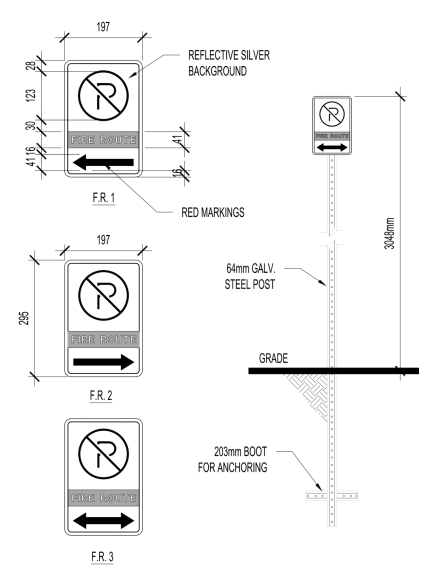
SITE PLAN
SCALE: 1 : 750



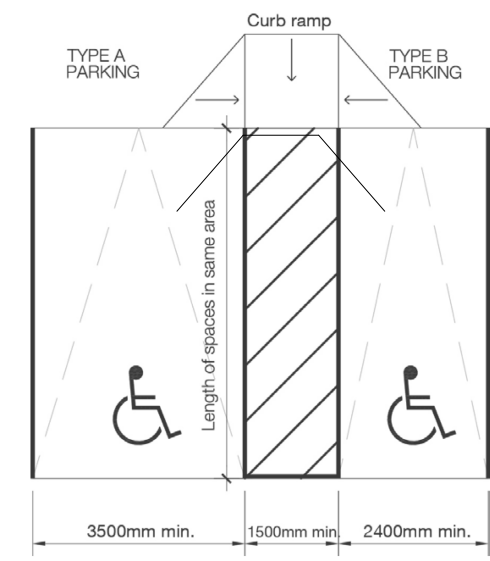
BARRIER FREE PARKING SIGN - TYPE A
SCALE: NOT TO SCALE



CURB RAMP+BARRIER FREE ACCESS
SCALE: NOT TO SCALE



FIRE ACCESS ROUTE SIGN
SCALE: NOT TO SCALE



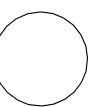
ACCESSIBLE PARKING SPACES
SCALE: NOT TO SCALE

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

DATE PLOTTED: 2024-05-16 06:08 PM
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ARCHITECTURAL SHEET

FENELON FALLS MPY SCHEDULES

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Building Design Ltd.
Engineers and Architects
130 Dufferin Avenue, London, Ontario, N6A 5R2
Phone: (519) 438-6192, Fax: (519) 672-9209
E-mail: london@dillon.ca



ROOM FINISH SCHEDULE - VEHICLE MAINTENANCE GARAGE

ROOM		FLOOR			WALLS								CEILING			REMARKS
No.	NAME	MATERIAL	FINISH	BASE	NORTH MATERIAL	NORTH FINISH	SOUTH MATERIAL	SOUTH FINISH	EAST MATERIAL	EAST FINISH	WEST MATERIAL	WEST FINISH	MATERIAL	FINISH	HEIGHT	
100	TOOL ROOM	CONCRETE	EF1	RB1	GWB	P2	CMU	P1	CMU	P1	GWB	P2	METAL DECK	P4	4110	
101	MECHANICAL ROOM	CONCRETE	EF1	RB1	CMU	P1	CMU	P1	CMU	P1	GWB	P2	METAL DECK	P4	4110	
102	STORAGE/COMM. ROOM	CONCRETE	EF1	RB1	CMU	P1	CMU	P1	CMU	P1	CMU	P1	METAL DECK	P4	4110	
103	ELECTRICAL ROOM	CONCRETE	EF1	RB1	CMU	P1	CMU	P1	CMU	P1	GWB	P2	METAL DECK	P4	4110	
104	UNIVERSAL WASHROOM	CONCRETE	RSF2	ICB	GW/B.C.T.	P2	GW/B.C.T.	P2	GW/B.C.T.	P2	GW/B.C.T.	P2	GW/B	P3	2895 6mm THK. CERAMIC TILE DADO (1220mm H.) ALL AROUND	
105	WASHROOM/SHOWER	CONCRETE	RSF2	ICB	GW/B.C.T.	P2	GW/B.C.T.	P2	GW/B.C.T.	P2	GW/B.C.T.	P2	GW/B	P3	2895 6mm THK. CERAMIC TILE DADO (1220mm H.) ALL AROUND	
106	LOCKER ROOM	CONCRETE	RSF2	ICB	CMU	P1	CMU	P1	CMU	P1	CMU	P1	GW/B	P3	2895	
107	KITCHEN/BREAKROOM	CONCRETE	RSF1	RB1	GW/B	P2	GW/B	P2	GW/B	P2	GW/B	P2	ACT	-	2895	
108	CORRIDOR	CONCRETE	RSF1	RB1	GW/B	P2	GW/B	P2	GW/B	P2	GW/B	P2	ACT	-	2895	
109	OFFICE	CONCRETE	RSF1	RB1	GW/B	P2	GW/B	P2	GW/B	P2	GW/B	P2	ACT	-	2895	
110	OFFICE	CONCRETE	RSF1	RB1	GW/B	P2	GW/B	P2	GW/B	P2	GW/B	P2	ACT	-	2895	
111	MAINTENANCE GARAGE	CONCRETE	EF1	-	CMU/CONCRETE	P1	CMU/CONCRETE	P1	CMU/CONCRETE	P1	NA	NA	METAL DECK	P4	7360 PAINT EXPOSED VERTICAL CMU AND CONCRETE SURFACES	
112	WASH BAY	CONCRETE	EF1	-	CMU/CONCRETE	P1	CMU/CONCRETE	P1	NA	NA	CMU/CONCRETE	P1	METAL DECK	P4	7360 PAINT EXPOSED VERTICAL CMU AND CONCRETE SURFACES	

ROOM FINISH SCHEDULE - MATERIAL STORAGE BUILDING

ROOM		FLOOR			WALLS								CEILING			REMARKS
No.	NAME	MATERIAL	FINISH	BASE	NORTH MATERIAL	NORTH FINISH	SOUTH MATERIAL	SOUTH FINISH	EAST MATERIAL	EAST FINISH	WEST MATERIAL	WEST FINISH	MATERIAL	FINISH	HEIGHT	
200	MATERIAL STORAGE BUILDING	ASPHALT	-	-	PLYWOOD/CONC.	NA/SLR2	PLYWOOD/CONC.	NA/SLR2	PLYWOOD/CONC.	NA/SLR2	PLYWOOD/CONC.	NA/SLR2	PLYWOOD	-	12500 APPLY SEALER TO ALL EXPOSED CONCRETE WALL SURFACES. PLYWOOD IS UN-FINISHED	

ROOM FINISH SCHEDULE - AUXILIARY STORAGE BUILDING

ROOM		FLOOR			WALLS								CEILING			REMARKS
No.	NAME	MATERIAL	FINISH	BASE	NORTH MATERIAL	NORTH FINISH	SOUTH MATERIAL	SOUTH FINISH	EAST MATERIAL	EAST FINISH	WEST MATERIAL	WEST FINISH	MATERIAL	FINISH	HEIGHT	
300	AUXILIARY STORAGE BUILDING	CONCRETE	SLR1	-	CONC./G1S PLYWOOD	P6	CONC./G1S PLYWOOD	P6	CONC./G1S PLYWOOD	P6	CONC./G1S PLYWOOD	P6	G1S PLYWOOD	P3	4287 APPLY SEALER TO ALL EXPOSED CONCRETE WALL SURFACES. G1S PLYWOOD ALL JOINTS FILLED & FINISHED SMOOTH	

COLOUR/MATERIAL SCHEDULE

MARK	COMPONENT	MANUFACTURER	PRODUCT/COLOUR	COMMENTS
ACT	LAY-IN ACOUSTIC TILE CEILING	ARMSTRONG WORLD INDUSTRIES	CORTEGA, SECOND LOOK II, 2767, 610x1220, COLOUR: WHITE	
C.T.	CERAMIC WALL TILE	OLYMPIA TILE	102x406 COLOUR & DIMENSION SERIES, COLOUR: "DUSK", FINISH "BRIGHT" FLEXITILE 500 PM UNSANDED GROUT, 3mm JOINTS WITH PROTECTED SEAL FINISH, COLOUR: CHARCOAL 685/585	
EF1	EPOXY FLOORING	STONHARD	STONSHIELD 'ESD'	ALTERNATE: ARMORPROXY COMMERCIAL FB-801
RSF1	RESILIENT SHEET FLOORING	TARKETT NORTH AMERICA	ACCZENT 27818, COLOUR: WASHED OAK NATURAL	
RSF2	RESILIENT SHEET FLOORING	TARKETT NORTH AMERICA	IQ GRANIT SAFET 21153 507 c/w 102mm H. INTEGRAL COVE BASE (ICB), COLOUR: LIGHT SAND WB	
P1	- INTERIOR CMU WALLS OR VERTICAL CONCRETE SURFACE	BENJAMIN MOORE	COLOUR: OC-52 GRAY OWL	PROVIDE RECOMMENDED PRIMER / SEALER FOR CMU WALLS AND CONCRETE CURB
P2	- INTERIOR GYPSUM BOARD WALLS	BENJAMIN MOORE	COLOUR: OC-52 GRAY OWL	
P3	- INTERIOR GYPSUM BOARD/PLYWOOD CEILINGS	BENJAMIN MOORE	COLOUR: WHITE	
P4	- METAL ROOF DECK, INTERIOR SURFACES	BENJAMIN MOORE	COLOUR: WHITE	
P5	- HM DOORS AND PS FRAMES	BENJAMIN MOORE	COLOUR: 2124-10 WROUGH IRON	
P6	- INTERIOR PLYWOOD WALLS	BENJAMIN MOORE	COLOUR: OC-17 WHITE DOVE	
SLR1	- CONCRETE FLOOR/WALL SEALER	W. R. MEADOWS, INC.	INTRAGUARD	FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR CONCRETE WALL SEALING
SLR2	- CONCRETE FOUNDATION/PUSH WALL SEALER	SIKA CANADA	SIKA FERROGARD 903+	APPLY SEALER TO INTERIOR AND EXTERIOR SURFACES OF THE CONCRETE PUSH WALLS AND EXPOSED CONCRETE FOUNDATION WALLS PRIOR TO BACKFILLING. COAT ENTIRE WALL SURFACE FROM TOP OF FOOTING TO TOP OF WALL (INCLUDING HORIZONTAL TOP SURFACE OR WALL)
PLAM1	PLASTIC LAMINATE	FORMICA	COMMERCIAL LAMINATE, 3505 STORM SOLIDS	
PLAM2	PLASTIC LAMINATE	FORMICA	COMMERCIAL LAMINATE, 118 FINNISH OAK	
PMR1	METAL ROOFING	VICWEST	0.45mm (26GA.) 38mm PRESTIGE PR16 NON-RIBBED PROFILE HIDDEN FASTENER METAL ROOFING	
PMS1	EXTERIOR METAL SIDING (HORIZONTAL)	VICWEST	0.51 mm (24 GA.) 36mm CL 725 NON-RIBBED PROFILE EXPOSED FASTENER METAL SIDING	
PMS2	EXTERIOR METAL SIDING (VERTICAL)	VICWEST	0.51 mm (24 GA.) 36mm CL 6025 NON-RIBBED PROFILE EXPOSED FASTENER METAL SIDING	
RB1	RUBBER WALL BASE	JOHNSONITE	102mm H. VINYL BASE WITH TOE, COLOUR: SANDSTORM	
RS	ROLLER SHADES	MECHO SHADES	SOLARREACTIVE OPERABLE ROLLER SHADE, 10103-02 LIMESTONE BIEGE, 3% O.F.	
SLS1	SOLID SURFACING MATERIAL		13mm THK.	

ABBREVIATIONS

A.G.C.	ANTI-GRAFFITI COATING (COLOURED)	MIN.	MINUTE
ACD	ACCESS CONTROL DEVICE	MIN.	MINIMUM
ACT	ACOUSTIC CEILING TILE	NA	NOT APPLICABLE
ADO	AUTOMATIC DOOR OPENER	NO.	NUMBER
ALUM.	ALUMINUM	NTS	NOT TO SCALE
C.I.	CONTINUOUS INSULATION	O.C.	ON CENTRE
C.I.P.	CAST-IN-PLACE	O.D.	OUTSIDE DIAMETER
C.T.	CERAMIC TILE	OPP	OPPOSITE
CFC	COLD FORMED CHANNEL	P.C.	PRECAST CONCRETE
CH.	CHANNEL	P.T.	PRESSURE TREATED PLATE
CJ	CONTROL JOINT	PLAM	PLASTIC LAMINATE
CL.	CENTRELINE	PLY.	PLYWOOD
CMU	CONCRETE MASONRY UNIT	PMS	PRE-FINISHED METAL SIDING
CO	CLEAN OUT	PREF.	PRE-FINISHED
CONC.	CONCRETE	PS	PRESSED STEEL
D.O.	DOOR OPENING	PT.	PAINT
DIA.	DIAMETER	QT	QUARY TILE
DIM.	DIMENSION	R.O.	ROUGH OPENING
EA.	EACH	RB	RUBBER BASE
EF.	EPOXY FLOORING	RH	RIGHT HAND
EQ.	EQUALS	RS	ROLLER SHADE
EX.	EXISTING	RSF	RESILIENT SHEET FLOORING
EXIST.	EXISTING	S.R.	SCRATCH RESISTANT
EXT.	EXTERIOR	SDG.	SIDING
F.R.G.	FIRE RATED GLAZING	SF	STOREFRONT
F.R.T.	FIRE RETARDANT TREATED	SHTG.	SHEATHING
FD	FLOOR DRAIN	SIM.	SIMILAR
FE	FIRE EXTINGUISHER	SS	STAINLESS STEEL
FIN	FINISH(ED)	SU	SEALED UNIT (TEMPERED)
FLR.	FLOOR	T/O	TOP OF
FLR.	FLOOR(ING)	TB	THERMALLY BROKEN
FTG.	FOOTING	TBPS	THERMALLY BROKEN PRESSED STEEL
GALV.	GALVANIZED	TEMP.	TEMPERED
GL.	GLASS	TYP.	TYPICAL
GW/B	GYPSUM WALLBOARD	U.N.O.	UNLESS NOTED OTHERWISE
GYP. BD.	GYPSUM BOARD	WB	WHITEBOARD
H.	HIGH	WC	WATER COOLER
HB	HIGH-BUILD		
HD	HOT DIPPED		
HM	HOLLOW METAL		
HRS.	HOURS		
ID.	INSIDE DIAMETER		
IC	INTERCOM		
ICB	INTEGRAL COVE BASE		
INSUL.	INSULATION or INSULATED		
L.P.	LINER PANEL		
LAM.	LAMINATED		
LH	LEFT HAND		
M.M.R.	MOISTURE & MOLD RESISTANT		
M.O.	MASONRY OPENING		
M.S.	METAL SIDING		
MAT.	MATERIAL		

SIGN SCHEDULE

SIGN		ROOM		MOUNTING		REMARKS
TYPE	DESCRIPTION	No.	NAME	LEVEL	HEIGHT (TO U/S)	
SIGN 1	ELECTRICAL ROOM	NA	EXTERIOR	OFFICE FIN. FLOOR	1220 mm	EXTERIOR DOOR FACE AT CL. OF DOOR No. 103-1
SIGN 2	AUTHORIZED PERSONNEL ONLY	111	MAINTENANCE GARAGE	GARAGE FIN. FLOOR	1550 mm	GARAGE SIDE DOOR FACE AT CL. OF ACTIVE DOOR No. 102-1
SIGN 2	AUTHORIZED PERSONNEL ONLY	NA	EXTERIOR	OFFICE FIN. FLOOR	1500 mm	EXTERIOR DOOR FACE AT CL. OF DOOR No. 103-1
SIGN 3	STORAGE ROOM/COMMS ROOM	111	MAINTENANCE GARAGE	OFFICE FIN. FLOOR	1220 mm	GARAGE SIDE DOOR FACE AT CL. OF ACTIVE DOOR No. 102-1
SIGN 4	NON-POTABLE WATER	105	WASHROOM/SHOWER	OFFICE FIN. FLOOR	1400 mm	
SIGN 4	NON-POTABLE WATER	104	UNIVERSAL WASHROOM	OFFICE FIN. FLOOR	1400 mm	
SIGN 4	NON-POTABLE WATER	101	MECHANICAL ROOM	OFFICE FIN. FLOOR	1400 mm	
SIGN 4	NON-POTABLE WATER	111	MAINTENANCE GARAGE	GARAGE FIN. FLOOR	1270 mm	
SIGN 4	NON-POTABLE WATER	107	KITCHEN/BREAKROOM	OFFICE FIN. FLOOR	1220 mm	
SIGN 5	EMERGENCY EYEWASH	111	MAINTENANCE GARAGE	GARAGE FIN. FLOOR	1550 mm	
SIGN 6	TOOL ROOM	111	MAINTENANCE GARAGE	OFFICE FIN. FLOOR	1500 mm	GARAGE SIDE DOOR FACE AT CL. OF ACTIVE DOOR No. 100-1
SIGN 7	LUNCHROOM NOTICE	107	KITCHEN/BREAKROOM	OFFICE FIN. FLOOR	1220 mm	

NOTES: - ALL CONCRETE HOUSEKEEPING PADS AND CURBS ARE TO RECEIVE EPOXY FINISH IN ROOMS THAT ARE TO RECEIVE EPOXY FLOOR FINISH.

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

SIGN 1

Electrical Room
LOWER CASE BLACK LETTERS ON WHITE BACKGROUND WITH BORDER

SIGN 3

Storage Room/Comms Room
LOWER CASE BLACK LETTERS ON WHITE BACKGROUND WITH BORDER

SIGN 5

SIGN OF EMERGENCY SHOWER, EYEWASH SUPPLIER (AT GARAGE ONLY)

SIGN 7

NOTICE
Frying with Oil/Grease or Commercial Food Preparation Prohibited
UPPER CASE WHITE LETTERS ON BLUE BACKGROUND
LOWER CASE BLACK LETTERS ON WHITE BACKGROUND WITH BORDER

SIGN 2

Authorized Personnel Only
LOWER CASE BLACK LETTERS ON WHITE BACKGROUND WITH BORDER
RED CIRCLE WITH WHITE BAR

SIGN 4

SYMBOL OF TAP AND GLASS OF WATER WITH RED CIRCLE AND STRIKE THROUGH

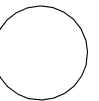
SIGN 6

Tool Room
LOWER CASE BLACK LETTERS ON WHITE BACKGROUND WITH BORDER

BUILDING SIGNS
WALL AND DOOR MOUNTED SIGNS TO BE ALUMINUM, CORROSION RESISTANT WITH ENGINEER-GRADE REFLECTIVE ENAMEL FINISH WITH PRE-DRILLED MOUNTING HOLES c/w STAINLESS STEEL SCREWS.
SIZE: 178x254

REVISIONS	REV	DATE	BY	DESCRIPTION
	24.10.21		BWD	ISSUED FOR TENDER

CONT No 2023-4010
GWP No 4044-22-00



ARCHITECTURAL

SHEET

FENELON FALLS MPY
DOOR AND FRAME SCHEDULES AND
ELEVATIONS

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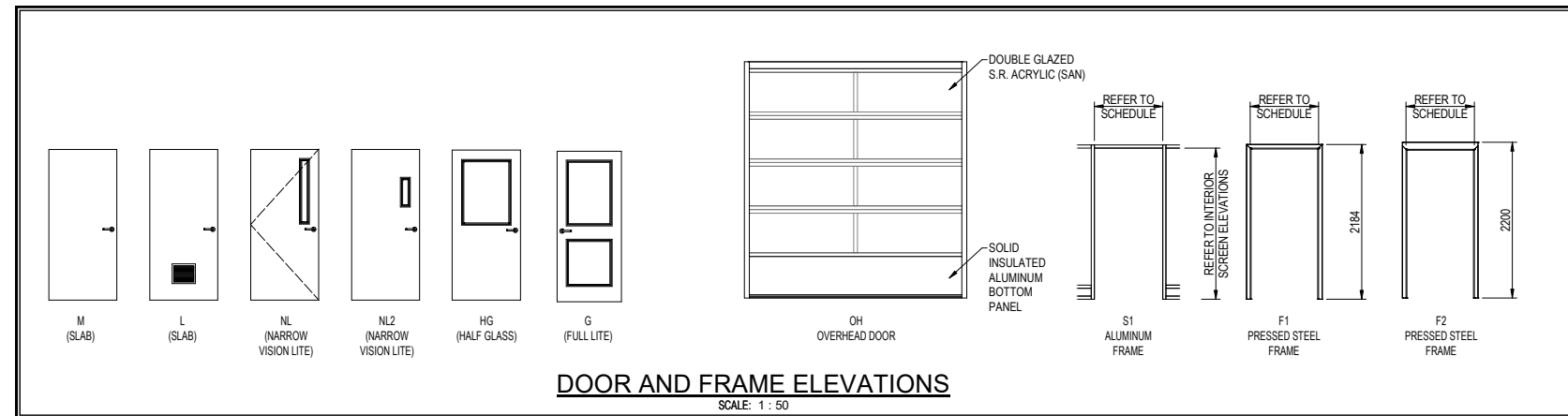
DILLON
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E-mail: london@dillon.ca



DOOR AND FRAME SCHEDULE - VEHICLE MAINTENANCE GARAGE																			
LOCATION			DOOR DATA									FRAME DATA				GENERAL			
DOOR No.	FROM ROOM NAME	FROM ROOM No.	TO ROOM NAME	TYPE	SWING	WIDTH	HEIGHT	THK.	MAT.	FINISH	GLAZING	TYPE	MAT.	FINISH	JAMB DETAIL	HEAD DETAIL	HARDWARE SET	RATING (HRS.)	REMARKS
100-1	MAINTENANCE GARAGE	111	TOOL ROOM	M	LH/RH	(2) 965	2134	45	HM	P5	NA	F1	PS	P4	J1	H1	04	1½	
101-1	STORAGE/COMM. ROOM	102	MECHANICAL ROOM	M	RH	965	2134	45	HM	P5	NA	F1	PS	P5	J2	H2	05	¾	
102-1	STORAGE/COMM. ROOM	102	MAINTENANCE GARAGE	M	LH/RH	(2) 965	2134	45	HM	P5	NA	F1	PS	P5	J1	H1	04	1½	BUILDING SIGNS 2 AND 3
103-1	ELECTRICAL ROOM	103	EXTERIOR	M	LHR	965	2134	45	HM	P5	NA	F1	TBPS	P5	J5	H5	01	NA	INSULATED DOOR AND TB FRAME, BUILDINGS SIGN 1 AND 2
104-1	MAINTENANCE GARAGE	111	UNIVERSAL WASHROOM	M	LH	965	2134	45	HM	P5	NA	F1	PS	P5	J3	H3	07	1½	
105-1	LOCKER ROOM	106	WASHROOM/SHOWER	L	LH	965	2134	45	HM	P5	NA	F1	PS	P5	J6	H6	06	NA	
106-1	MAINTENANCE GARAGE	111	LOCKER ROOM	M	RH	965	2134	45	HM	P5	NA	F1	PS	P5	J1	H1	06	1½	
107-1	CORRIDOR	108	KITCHEN/BREAKROOM	HG	LH	965	2134	45	WOOD	PREF.	G-2	S1	ALUM.	PREF.	J7	H7	08	NA	GLAZING FILM, SCREEN SC2
108-1	CORRIDOR	108	EXTERIOR	G	LHR	965	2134	45	HM	P5	G-3	F1	TBPS	P5	J4	H4	02	NA	INSULATED DOOR AND TB FRAME, INSULATED GLAZING UNIT
108-2	MAINTENANCE GARAGE	111	CORRIDOR	NL2	RH	965	2134	45	HM	P5	G-1	F1	PS	P5	J3	H3	10	1½	
109-1	CORRIDOR	108	OFFICE	M	LH	965	2134	45	WOOD	PREF.	NA	S1	ALUM.	PREF.	J7	H7	09	NA	GLAZING FILM, SCREEN SC1
110-1	CORRIDOR	108	OFFICE	M	RH	965	2134	45	WOOD	PREF.	NA	S1	ALUM.	PREF.	J7	H7	09	NA	GLAZING FILM, SCREEN SC1
111-1	MAINTENANCE GARAGE	111	EXTERIOR	G	RHR	965	2134	45	HM	P5	G-3	F2	TBPS	P5	J5	H5	03	NA	INSULATED DOOR AND TB FRAME, INSULATED GLAZING UNIT
111-2	MAINTENANCE GARAGE	111	EXTERIOR	G	LHR	965	2134	45	HM	P5	G-3	F2	TBPS	P5	J5	H5	03	NA	INSULATED DOOR AND TB FRAME, INSULATED GLAZING UNIT
111-3	MAINTENANCE GARAGE	111	EXTERIOR	OH	NA	6000	5000	45	STEEL	PREF.	ACRYLIC	NA	NA	NA	J8	H8	NA	NA	INSULATED OVERHEAD DOOR, OPERATOR HARDWARE BY OH DOOR SUPPLIER
111-4	MAINTENANCE GARAGE	111	EXTERIOR	OH	NA	6000	5000	45	STEEL	PREF.	ACRYLIC	NA	NA	NA	J8	H8	NA	NA	INSULATED OVERHEAD DOOR, OPERATOR HARDWARE BY OH DOOR SUPPLIER
112-1	WASH BAY	112	EXTERIOR	G	RHR	965	2134	45	HM	P5	G-3	F2	TBPS	P5	J5	H5	03	NA	INSULATED DOOR AND TB FRAME, INSULATED GLAZING UNIT
112-2	WASH BAY	112	EXTERIOR	G	LHR	965	2134	45	HM	P5	G-3	F2	TBPS	P5	J5	H5	03	NA	INSULATED DOOR AND TB FRAME, INSULATED GLAZING UNIT
112-3	WASH BAY	112	EXTERIOR	OH	NA	6000	5000	45	STEEL	PREF.	ACRYLIC	NA	NA	NA	J8	H8	NA	NA	INSULATED OVERHEAD DOOR, OPERATOR HARDWARE BY OH DOOR SUPPLIER
112-4	WASH BAY	112	EXTERIOR	OH	NA	6000	5000	45	STEEL	PREF.	ACRYLIC	NA	NA	NA	J8	H8	NA	NA	INSULATED OVERHEAD DOOR, OPERATOR HARDWARE BY OH DOOR SUPPLIER

DOOR AND FRAME SCHEDULE - MATERIAL STORAGE BUILDING																			
LOCATION			DOOR DATA									FRAME DATA				GENERAL			
DOOR No.	FROM ROOM NAME	FROM ROOM No.	TO ROOM NAME	TYPE	SWING	WIDTH	HEIGHT	THK.	MAT.	FINISH	GLAZING	TYPE	MAT.	FINISH	JAMB DETAIL	HEAD DETAIL	HARDWARE SET	RATING (HRS.)	REMARKS
200-1	MATERIAL STORAGE BUILDING	200	EXTERIOR	NL	LHR	965	2134	45	HM	P5	G-2	F1	PS	P5	J9	H9	01	NA	
200-2	MATERIAL STORAGE BUILDING	200	EXTERIOR	NA	NA	7300	12000	0	NA	NA	NA	NA	NA	NA	J10	H10	NA	NA	
200-3	MATERIAL STORAGE BUILDING	200	EXTERIOR	NA	NA	6000	8000	0	NA	NA	NA	NA	NA	NA	J10	H10	NA	NA	
200-4	MATERIAL STORAGE BUILDING	200	EXTERIOR	NA	NA	6000	8000	0	NA	NA	NA	NA	NA	NA	J10	H10	NA	NA	

DOOR AND FRAME SCHEDULE - AUXILIARY STORAGE BUILDING																			
LOCATION			DOOR DATA									FRAME DATA				GENERAL			
DOOR No.	FROM ROOM NAME	FROM ROOM No.	TO ROOM NAME	TYPE	SWING	WIDTH	HEIGHT	THK.	MAT.	FINISH	GLAZING	TYPE	MAT.	FINISH	JAMB DETAIL	HEAD DETAIL	HARDWARE SET	RATING (HRS.)	REMARKS
300-2	AUXILIARY STORAGE BUILDING	300	EXTERIOR	NL	LHR	965	2134	45	HM	P5	G-3	F1	TBPS	P5	J11	H11	01	NA	INSULATED DOOR AND TB FRAME, INSULATED GLAZING UNIT
300-3	AUXILIARY STORAGE BUILDING	300	EXTERIOR	OH	NA	6000	3600	45	STEEL	PREF.	ACRYLIC	NA	NA	NA	J12	H12	NA	NA	INSULATED OVERHEAD DOOR, OPERATOR HARDWARE BY OH DOOR SUPPLIER



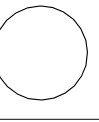
REFER TO SPECIFICATIONS FOR HARDWARE SET DETAILS

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GWP No 4044-22-00



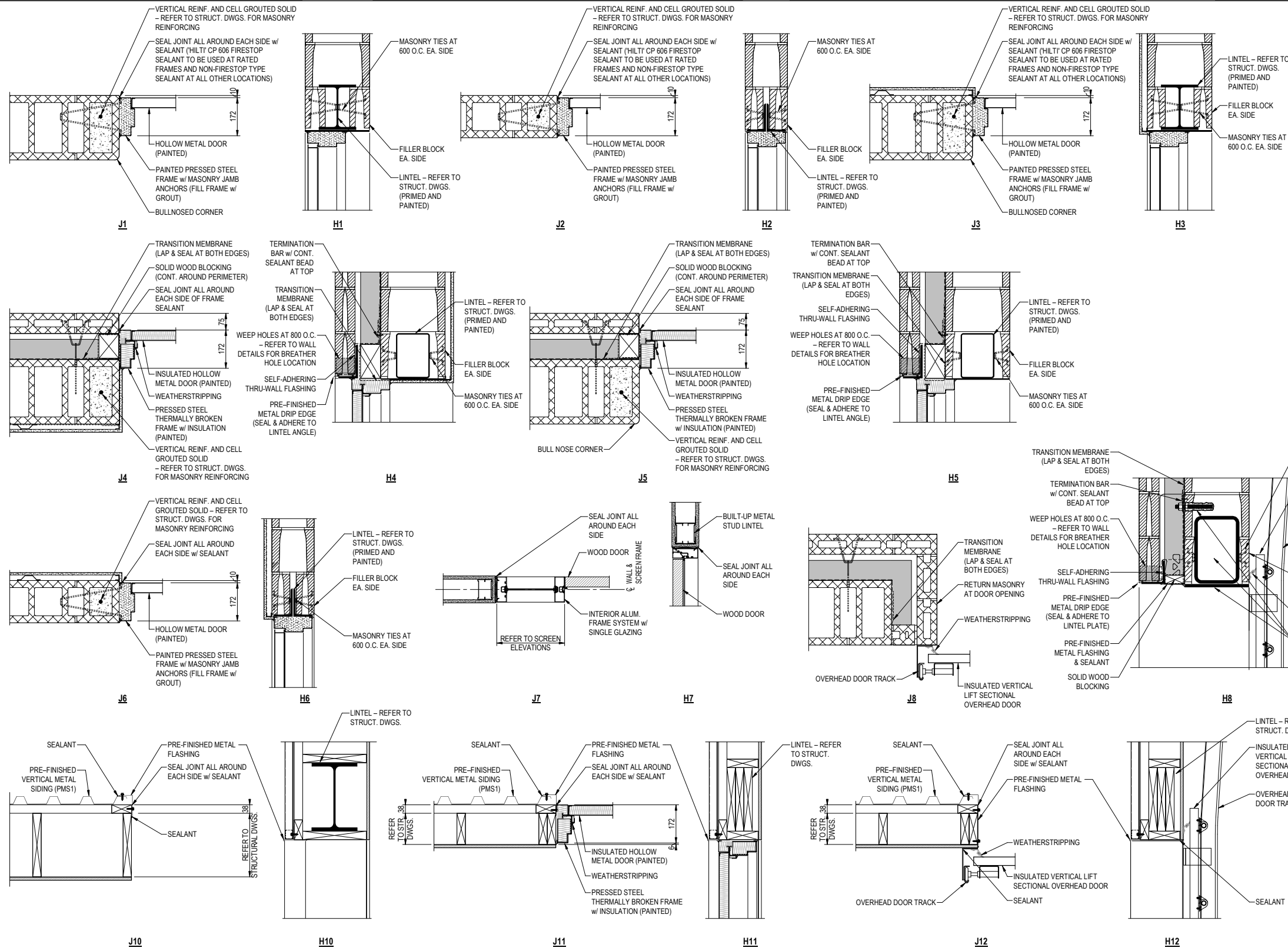
ARCHITECTURAL

SHEET

FENELON FALLS MPY
DOOR AND FRAME DETAILS

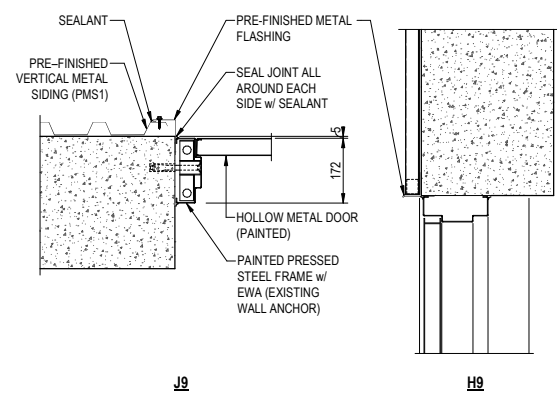
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DOOR FRAME HEAD AND JAMB DETAILS

SCALE: 1 : 10



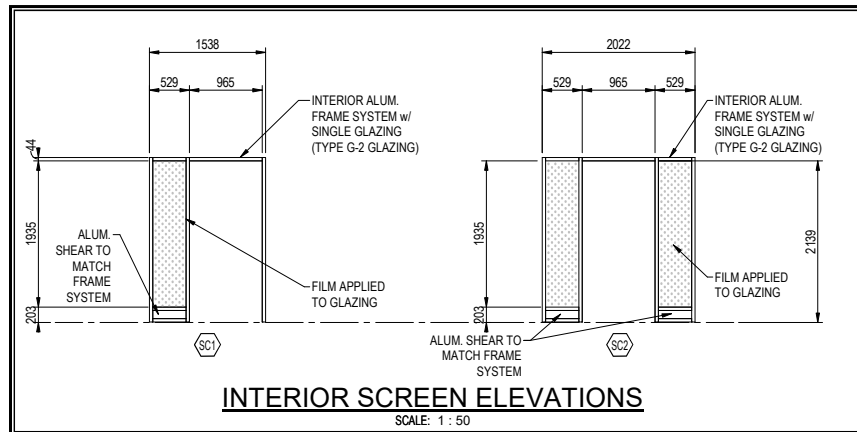
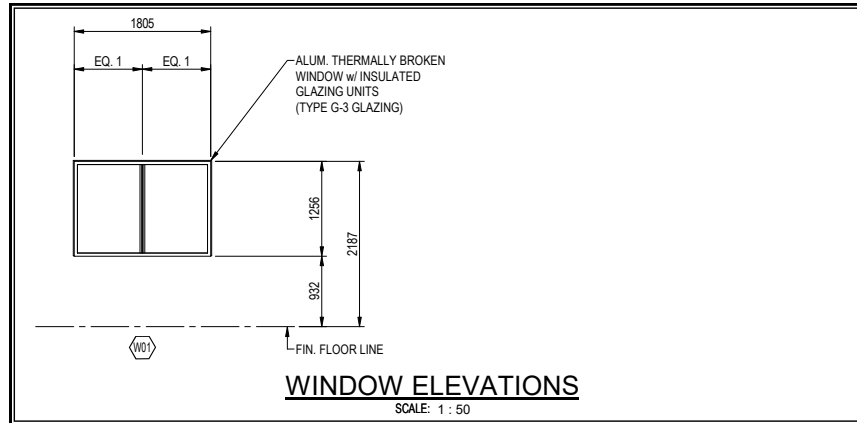
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REVISIONS	REV	DATE	BY	DESCRIPTION
1	24.10.21	BWD		ISSUED FOR TENDER

CEILING TYPE SCHEDULE

C1	PRE-FINISHED METAL SUSPENSION SYSTEM 610 x 1200 ACOUSTIC TILE	
C2	38 COLD ROLLED GALVANIZED CHANNELS AT 1200 O.C. 22 METAL FURRING CHANNELS AT 400 O.C. 16 ABUSE-RESISTANT GYPSUM BOARD	
C3	PRE-FABRICATED ROOF TRUSS BOTTOM CHORD 13 EXTERIOR GRADE PLYWOOD SHEATHING	



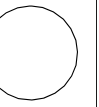
ROOF TYPE SCHEDULE

R1	CAP SHEET BASE SHEET 6 PROTECTION BOARD 2% SLOPE TAPERED INSULATION (MIN. STARTING THICKNESS 13mm) RIGID INSULATION (6.12 RS) SELF ADHESIVE VAPOUR BARRIER MEMBRANE 10 GYPSUM-FIBER ROOF BOARD 38 METAL DECK	
R2	CAP SHEET BASE SHEET 6 PROTECTION BOARD 2% SLOPE TAPERED INSULATION (MIN. STARTING THICKNESS 13mm) RIGID INSULATION (3.06 RS) SELF ADHESIVE VAPOUR BARRIER MEMBRANE 10 GYPSUM-FIBER ROOF BOARD 38 METAL DECK	
R3	38 PRE-FINISHED METAL ROOF PANELS SELF-ADHERED ROOFING UNDERLAYMENT (APPLY TO ENTIRE ROOF SURFACE) 915 WIDE EAVE PROTECTION AT PERIMETER 16 EXTERIOR GRADE PLYWOOD SHEATHING PRE-FABRICATED ROOF TRUSS TOP CHORD	

CONT No 2023-4010
GWP No 4044-22-00

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FENELON FALLS MPY
ROOF AND CEILING TYPE SCHEDULES,
WINDOW AND SCREEN ELEVATIONS



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56

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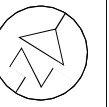


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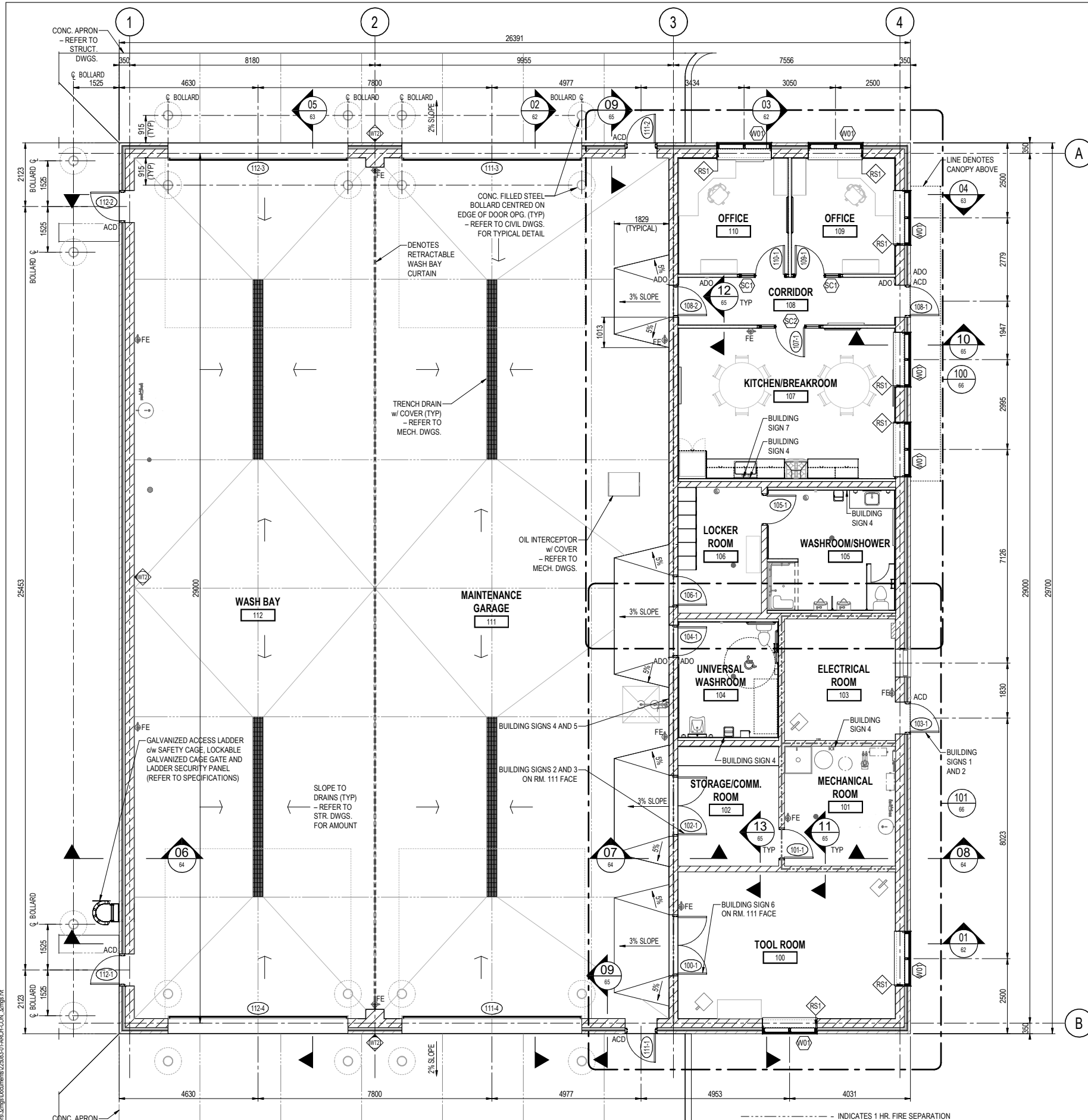
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FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING -
GROUND FLOOR PLAN

57

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FLOOR PLAN
SCALE: 1 : 75

--- INDICATES 1 HR. FIRE SEPARATION
(SEAL ALL MECHANICAL/ELECTRICAL
PENETRATIONS w/ FIRESTOP AND SMOKE SEAL)

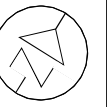
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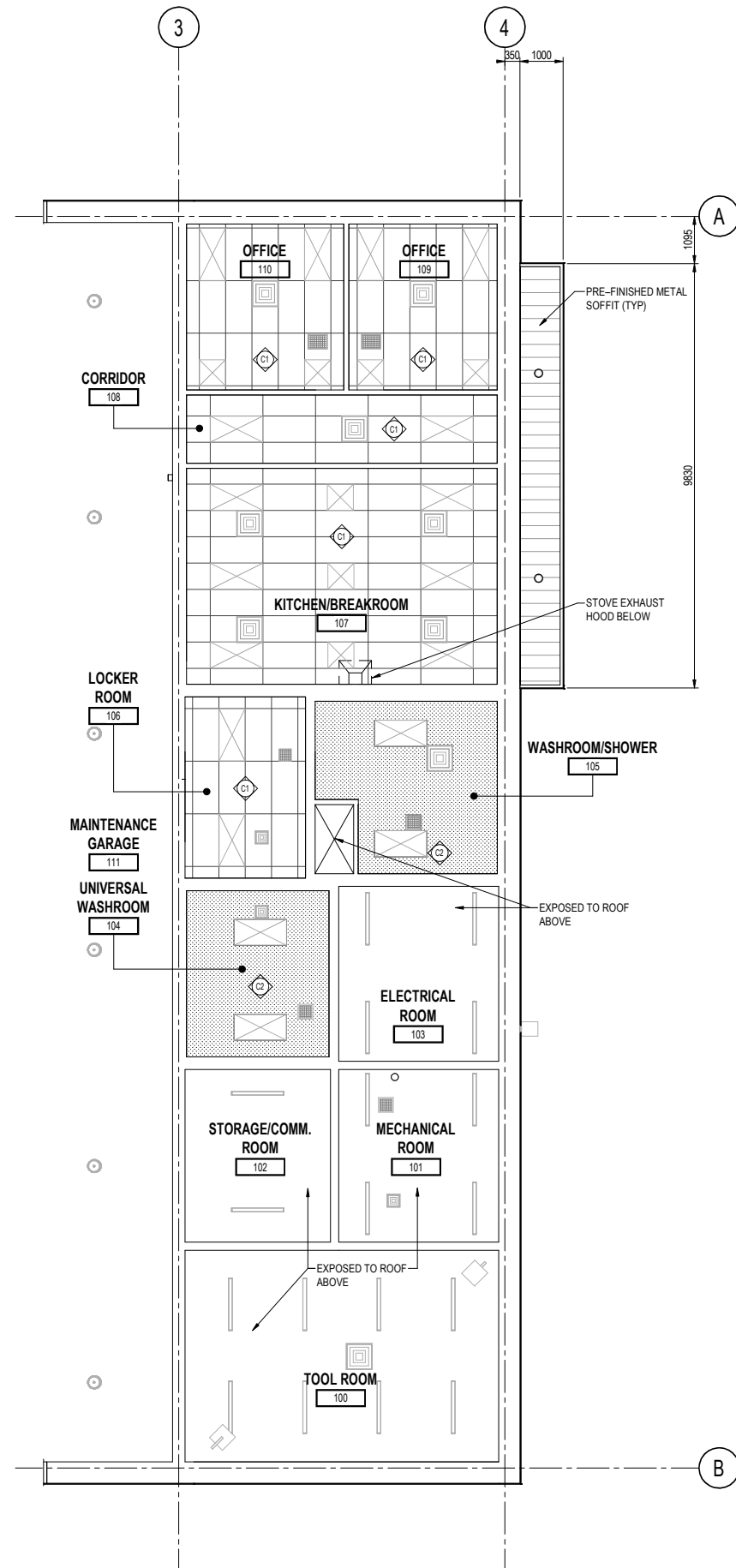
FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING -
REFLECTED CEILING PLAN

58

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LEGEND	
	CEILING TAG - REFER TO CEILING TYPE SCHEDULE
	RECESSED AND CHAIN HUNG LUMINAIRE
	CHAIN HUNG LUMINAIRE
	DOWNLIGHT LUMINAIRE
	SURFACE MOUNTED LUMINAIRE
	RETURN AIR GRILLE/DIFFUSER
	SUPPLY AIR DIFFUSER
	UNIT HEATER
	GYPSUM BOARD



REFLECTED CEILING PLAN
SCALE: 1 : 75

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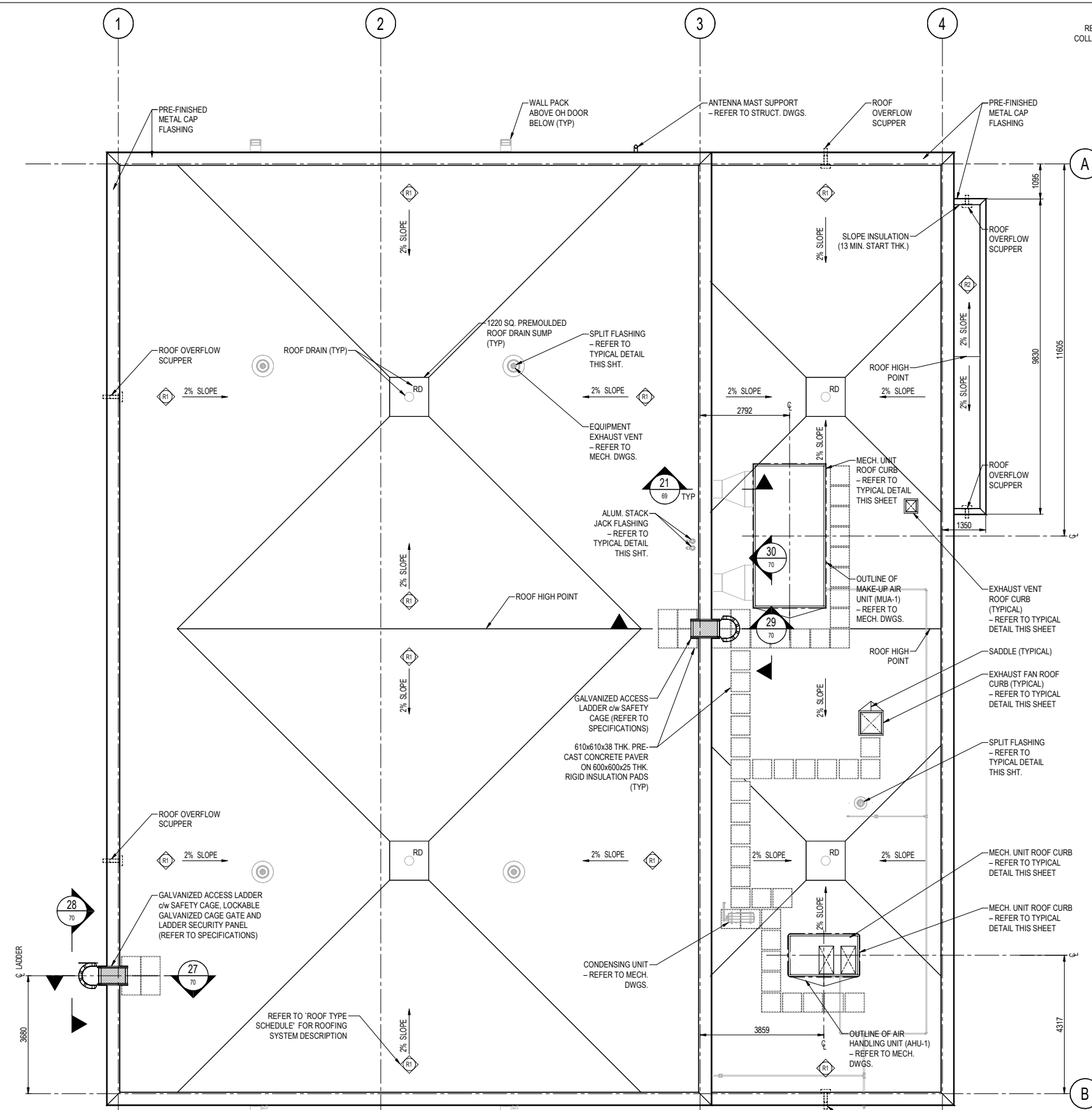
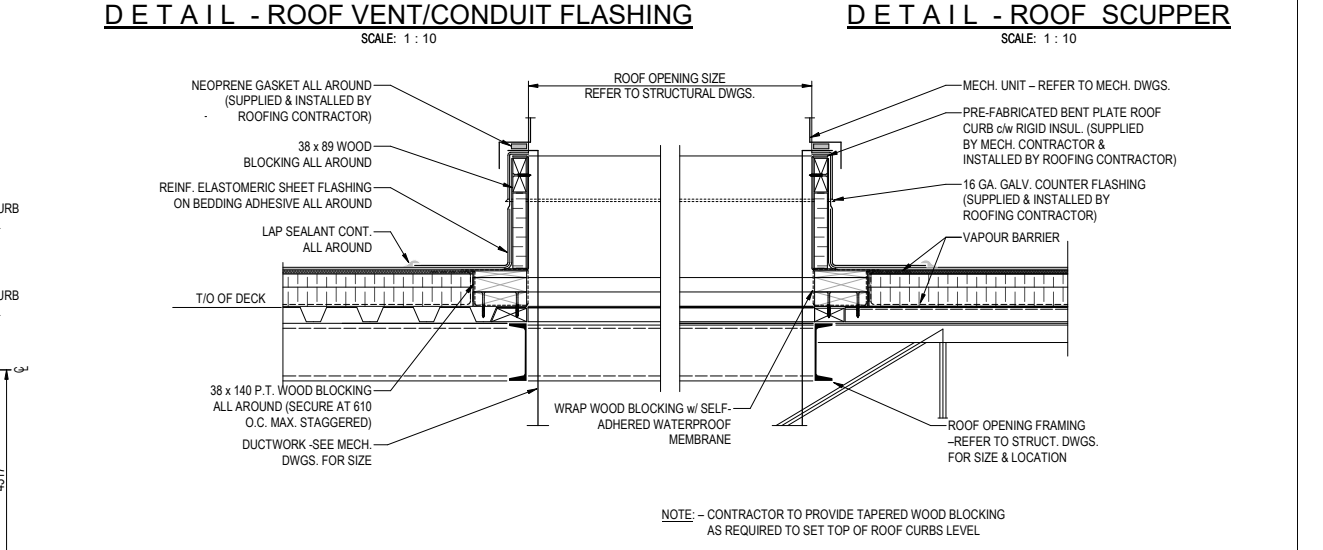
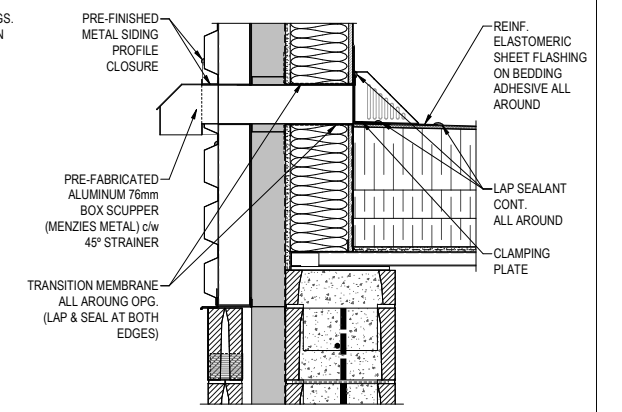
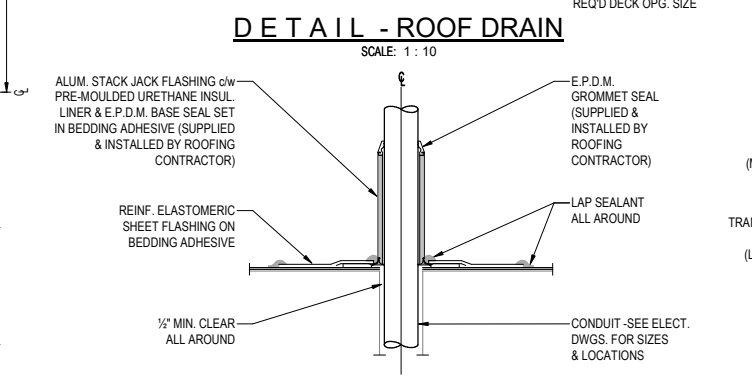
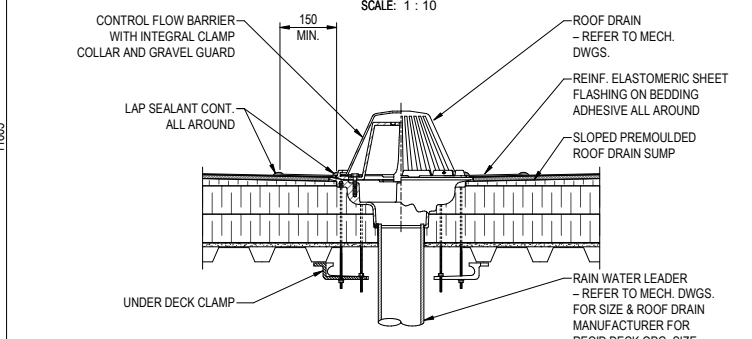
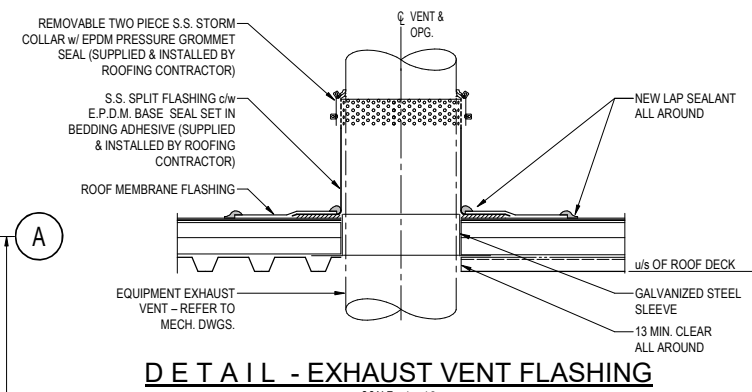
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FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING - ROOF
PLAN AND DETAILS

59

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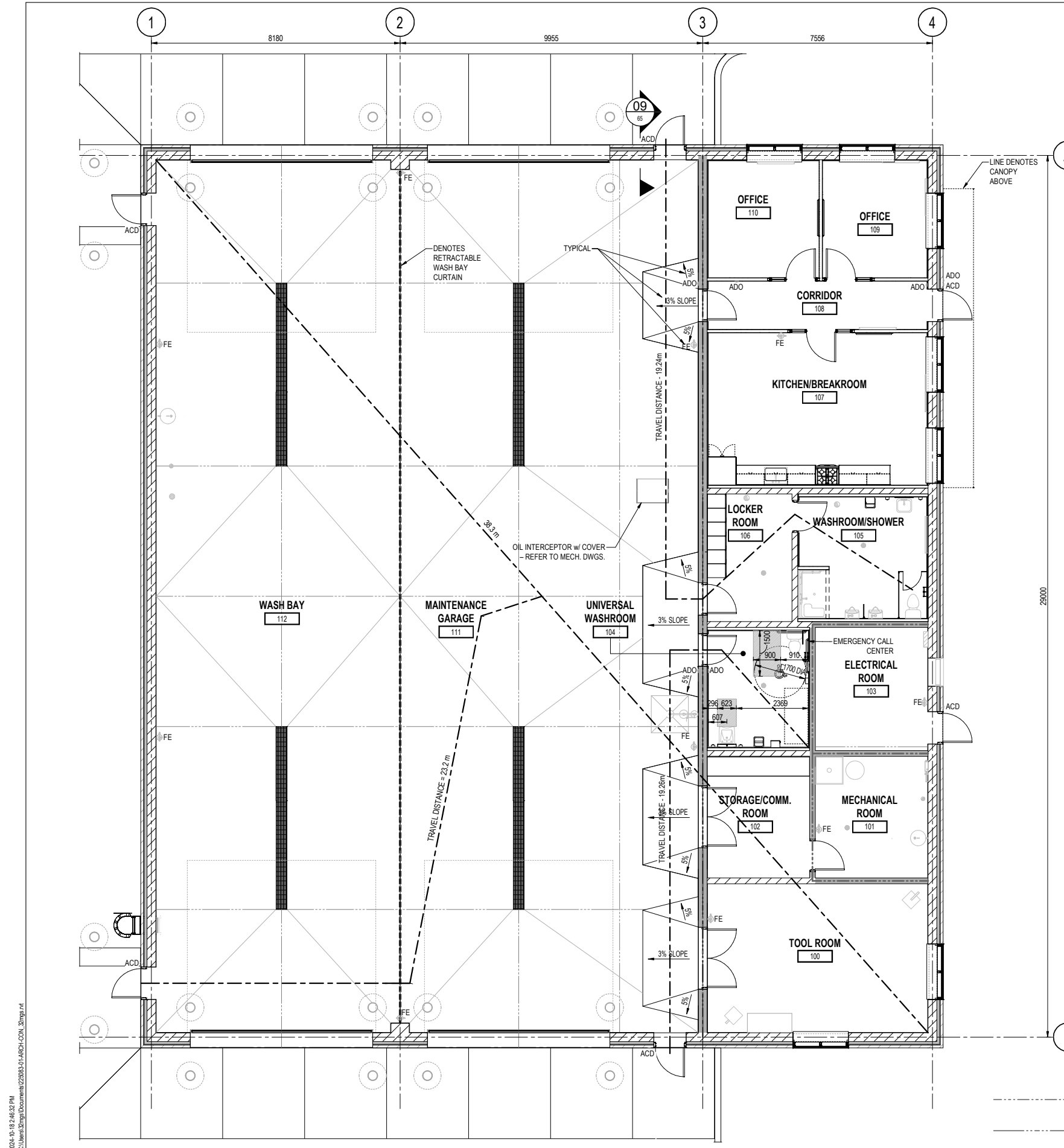
- NOTES:**
- 2% ROOF SLOPE SHALL BE A CONSTANT SLOPE WITHOUT UNDULATIONS OR LOW POINTS THAT PROVIDES POSITIVE DRAINAGE TO ROOF DRAINS FROM ALL SECTIONS OF THE ROOF
 - ENSURE ROOF DRAIN SUMP IS SET LOWER THAN THE SURROUNDING SLOPED INSULATION SO THE DRAINING WATER CAN OVERCOME ANY HIGH POINTS IN ROOF DRAIN COLLAR WITHOUT PONDING
 - CONTRACTOR TO USE EXTRA SLOPED INSULATION AS REQUIRED TO ACHIEVE AN UNINTERRUPTED ROOF SLOPE AND OVERCOME ANY ELEVATION CHANGES OR UNDULATIONS IN THE UNDERLYING ROOF STRUCTURE
 - PONDING WATER FOR ANY DURATION IN ANY LOCATION OF THE ROOF WILL NOT BE ALLOWED AND WILL BE CONSIDERED A DEFICIENCY THAT REQUIRES CONTRACTOR CORRECTION

ROOF PLAN
SCALE: 1 : 75

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ONTARIO BUILDING CODE DATA MATRIX
PART 3 - FIRE PROTECTION, OCCUPANT SAFETY AND ACCESSIBILITY

3.00 BUILDING CODE VERSION	O.Reg. 33/02	LAST AMENDMENT	O.Reg. 89/23
3.01 PROJECT TYPE	New Construction		(A) 1.1.2
3.02 MAJOR OCCUPANCY CLASSIFICATION	OCCUPANCY	USE	3.1.2.1(1)
	F2	Medium Hazard Industrial	Vehicle Maintenance Garage/Offices
3.03 SUPERIMPOSED MAJOR OCCUPANCIES	NO		3.2.2.7
3.04 BUILDING AREA (m²)	DESCRIPTION	EXISTING	NEW
	New Building	783.80	783.8
	TOTAL	783.8	783.8
3.05 GROSS AREA (m²)	DESCRIPTION	EXISTING	NEW
	N/A	783.80	783.8
	TOTAL	783.8	783.8
3.06 MEZZANINE AREA (m²)	DESCRIPTION	EXISTING	NEW
	N/A	-	-
	TOTAL	-	-
3.07 BUILDING HEIGHT	1	STOREYS ABOVE GRADE	7.60
	5	STOREYS BELOW GRADE	-
3.08 HIGH BUILDING	No		(A) 1.4.1.2 & 3.2.1.1
3.09 NUMBER OF STREETS/FIREFIGHTER ACCESS	1	STREETS	3.2.2.10 & 3.2.5
3.10 BUILDING CLASSIFICATION	3.2.2.7(1)	Group F, Division 2, up to 4 Storeys	3.2.2.20(8)
3.11 SPRINKLER SYSTEM	Not Required		3.2.1.5 & 3.2.2.17
3.12 STANDPIPE SYSTEM	Not Required		3.2.9
3.13 FIRE ALARM SYSTEM	Not Required		3.2.4
3.14 WATER SERVICE/SUPPLY IS ADEQUATE	Yes		3.2.2.20(8)
3.15 CONSTRUCTION TYPE	RESTRICTION: Combustible Permitted	ACTUAL	Combustion
	HEAVY TIMBER CONSTRUCTION		N/A
3.16 IMPORTANCE CATEGORY	Normal		3.1.4.7
3.17 SEISMIC HAZARD INDEX (I, S, D, 2)	0.00	Seismic Design Not Required for Table 4.1.1.18, Items 6 to 21	4.1.2.1(3), 14.1.2.1.8, 4.1.8.18(1)
3.18 OCCUPANT LOAD	FLOOR LEVEL/AREA	OCCUPANCY TYPE	BASED ON
	Ground Floor	Design of space	22
	TOTAL		22
3.19 BARRIER-FREE DESIGN	Yes		3.8
3.20 HAZARDOUS SUBSTANCES	No		3.3.1.2 & 3.3.1.19
3.21 REQUIRED FIRE RESISTANCE RATINGS	HORIZONTAL ASSEMBLY	RATING (H)	SUPPORTING ASSEMBLY (H)
	FLOORS OVER BSMT	N/A	N/A
	FLOORS	N/A	N/A
	MEZZANINE	N/A	N/A
	ROOF	N/A	N/A
3.22 SPATIAL SEPARATION - Vehicle Maintenance Building	WALL	SEF AREA (m²)	L.D. (m)
	North Wall	168.7	57.00
	South Wall	168.7	54.66
	East Wall	233.0	45.73
	West Wall	217.1	34.50
3.23 PLUMBING FIXTURE REQUIREMENTS	RATIO	N/A, UNIVERSAL WASHROOM PROVIDED	3.7.4
3.24 ENERGY EFFICIENCY	NON-RESIDENTIAL COMPLIANCE OPTION: SB-10 Performance (Dn.5)		12.2.1.2
	PROJECT DESIGN CONDITIONS		
	CLIMATIC ZONE	Zone 1 (< 5000 Degree Days)	
	BUILDING ENVELOPE REQUIREMENTS	ASSEMBLY	INSULATION
	WALLS, ABOVE GRADE	U-0.307	RSI 3.67 G
	ROOF (without attic space)	U-0.164	RSI 6.2 G
	ROOF (with attic space)	N/A	N/A
	SLAB-ON-GRADE FLOOR (heated)	-	RSI 1.8 min slab
	SLAB-ON-GRADE FLOOR (unheated)	N/A	N/A
	SPACE HEATING FUEL	Natural Gas	
	HEATING EQUIPMENT EFFICIENCY	≥ 78% < 90% AFUE	
	OTHER CONDITIONS	Spray-applied Foam Insulation Above Grade Wall	
3.25 NOTES	<p>Travel distance to at least one exit shall be not more than 30m as per OBC reference 3.4.2.5.(f) and not more than 40 m in a business and personal services occupancy (Offices) as required by Sentence 3.4.2.5.(1)(b).</p> <p>2 hour rated fire separation provided between Maintenance Garage and Office Area as per OBC reference 3.3.5.5.(1).</p> <p>Electrical and mechanical rooms are required to be separated from the remainder of the building by a fire separation having a 1 h fire resistance rating, as per Sentence 3.6.2.1.(7).</p> <p>Maximum flame spread rating of 150 for all interior walls/ceilings.</p>		

CONT No 2023-4010
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FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING - OBC
PLAN

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ONTARIO ASSOCIATION
of
ARCHITECTS
October 18, 2024
NAZLI DELAVIZ
LICENCE
8851

FLOOR PLAN - ONTARIO BUILDING CODE
SCALE: 1 : 75

INDICATES 1 HR. FIRE SEPARATION
(SEAL ALL MECHANICAL/ELECTRICAL WALL
PENETRATIONS w/ FIRESTOP AND SMOKE SEAL)

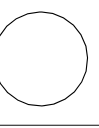
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PENETRATIONS w/ FIRESTOP AND SMOKE SEAL)

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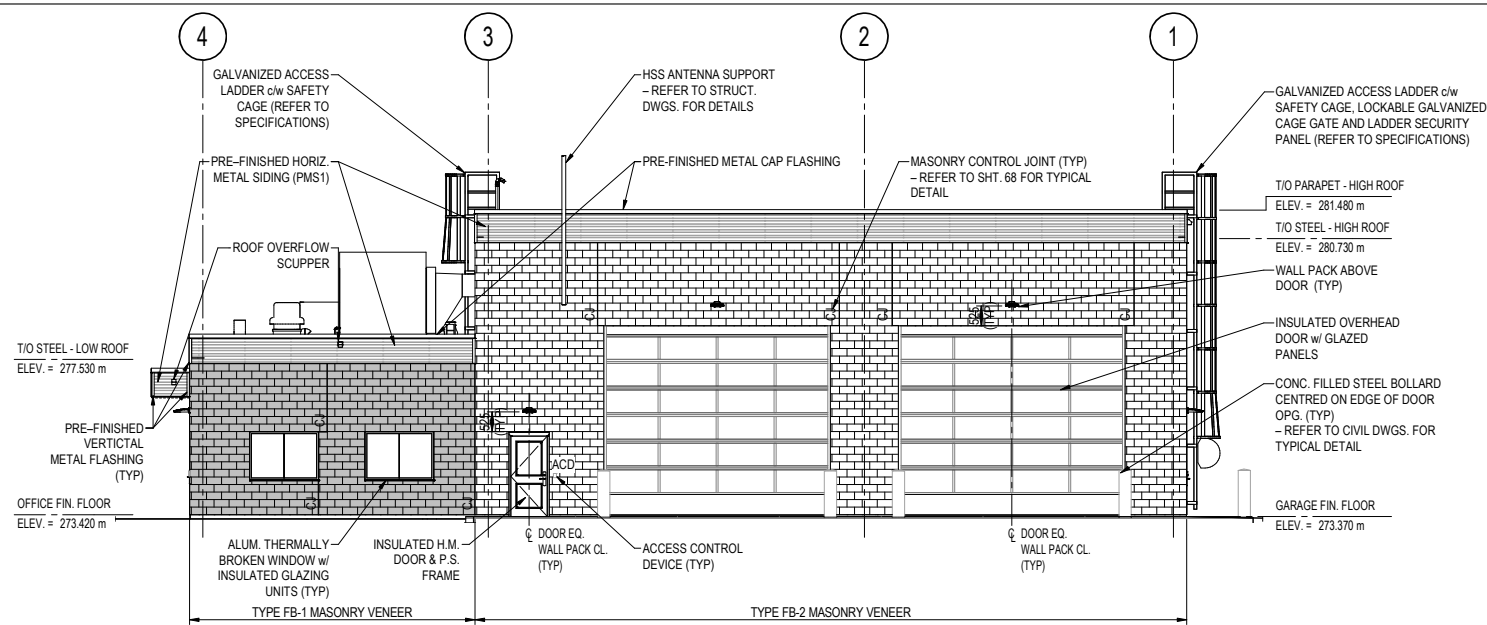
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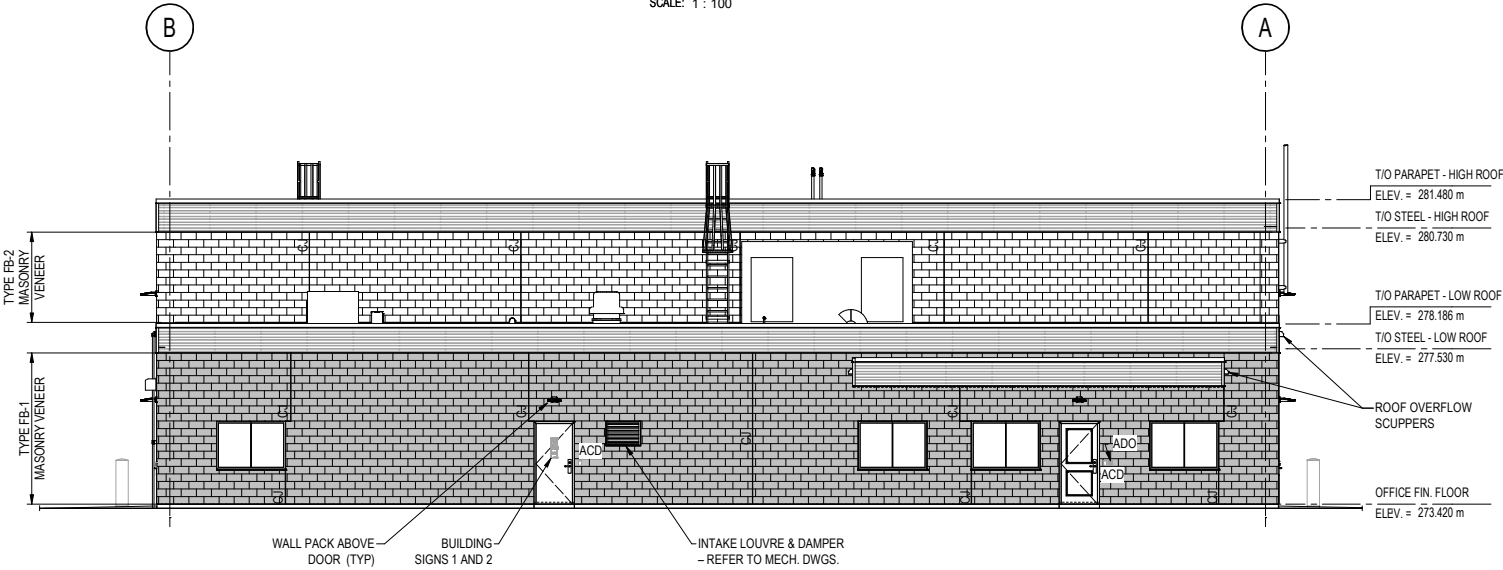
FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING -
EXTERIOR ELEVATIONS

61

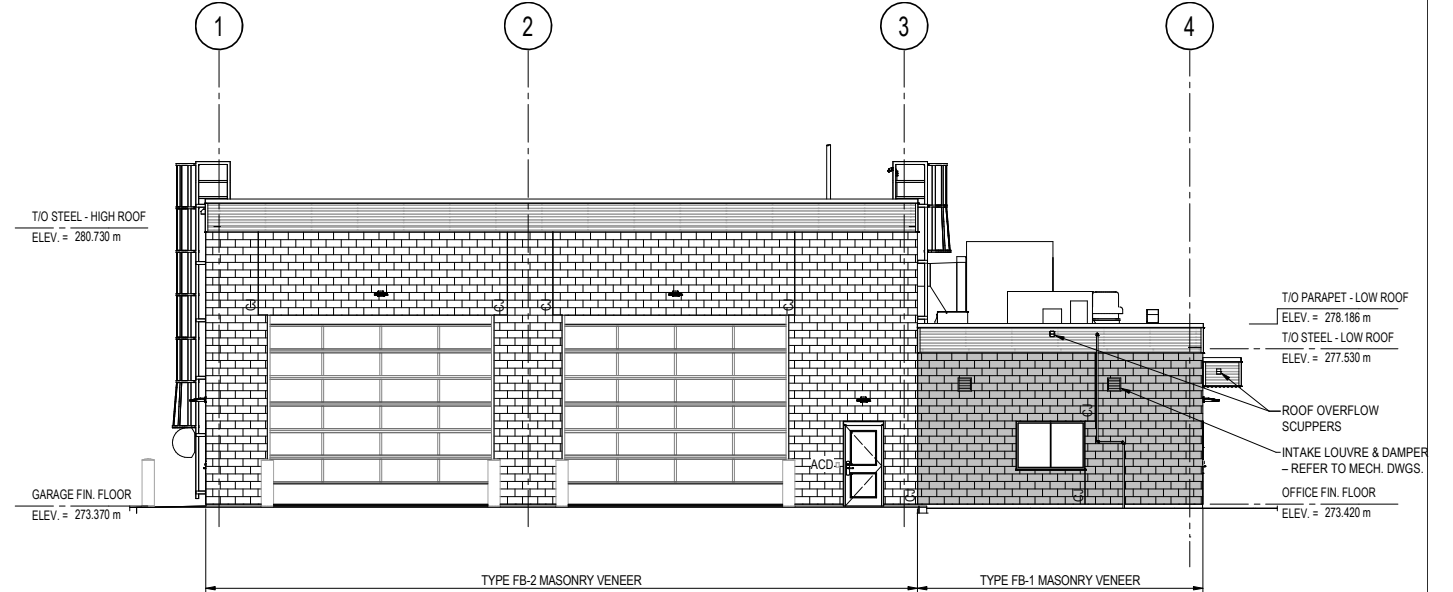
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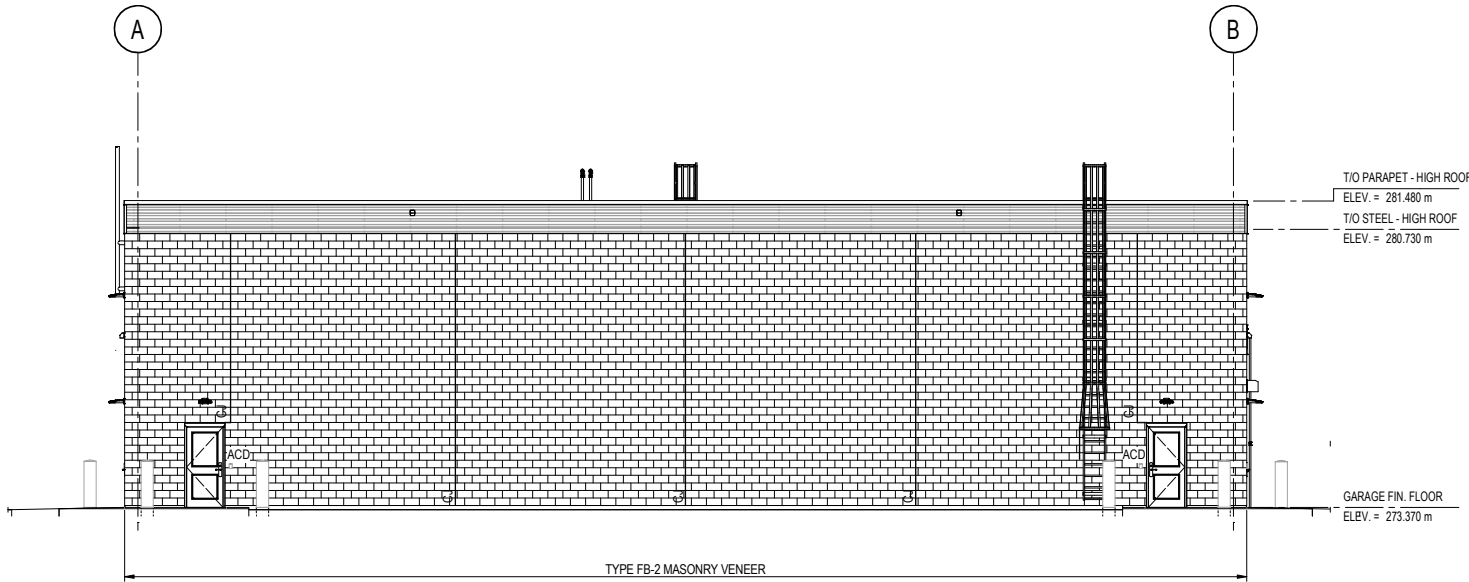
NORTH ELEVATION
SCALE: 1 : 100



EAST ELEVATION
SCALE: 1 : 100



SOUTH ELEVATION
SCALE: 1 : 100



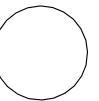
WEST ELEVATION
SCALE: 1 : 100

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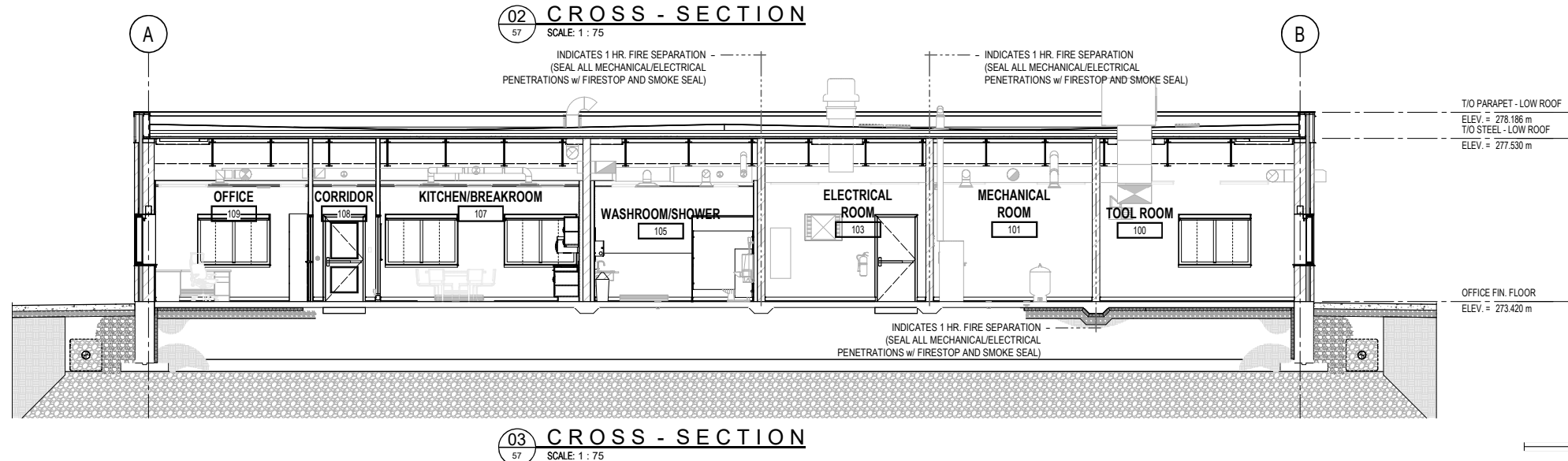
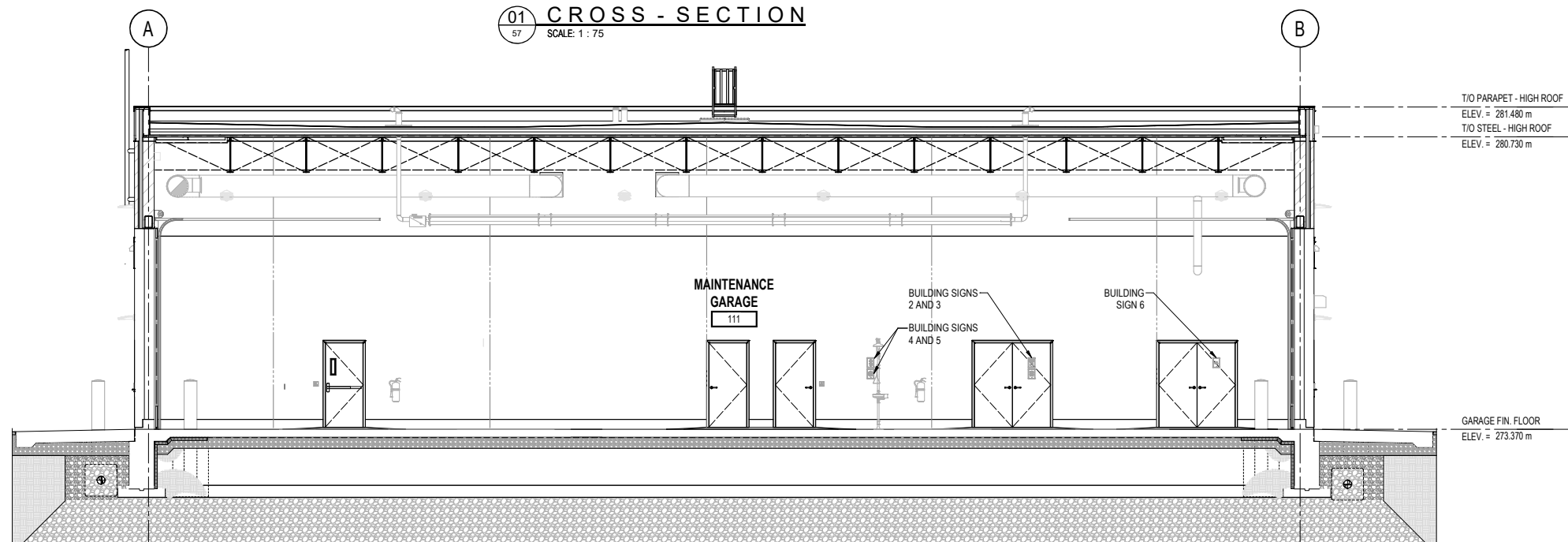
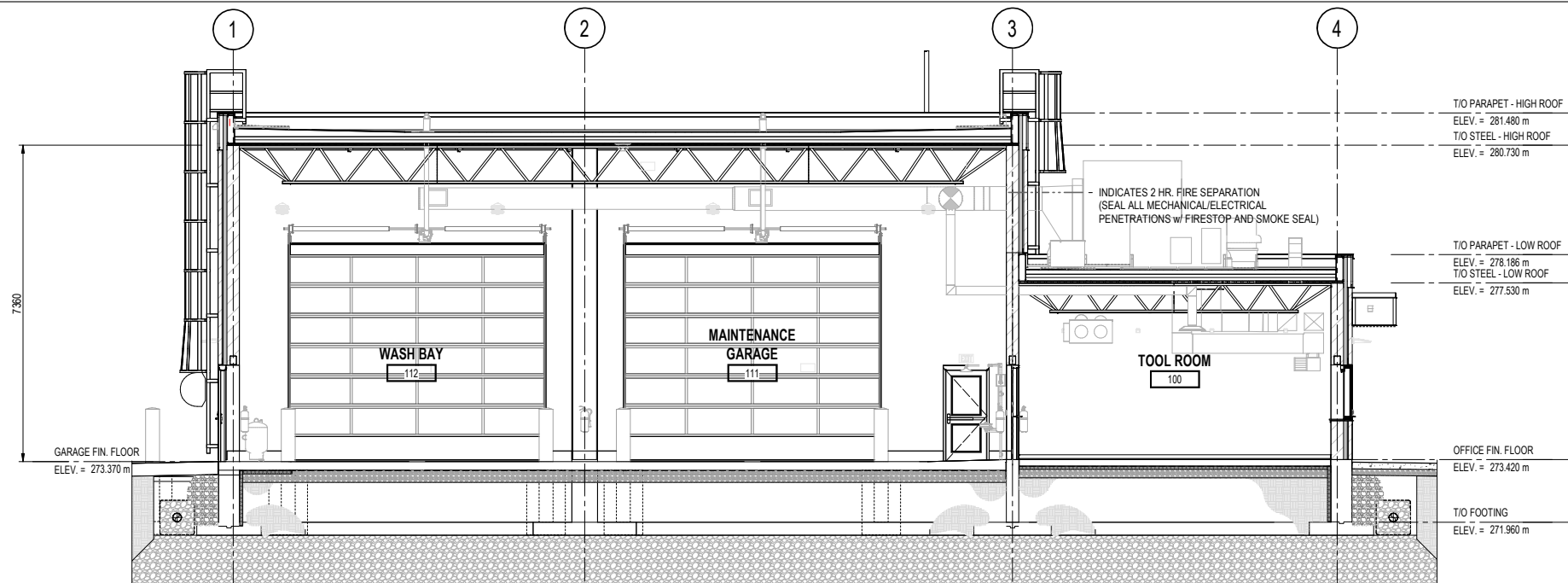
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FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING - CROSS
SECTIONS

62

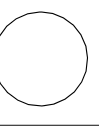
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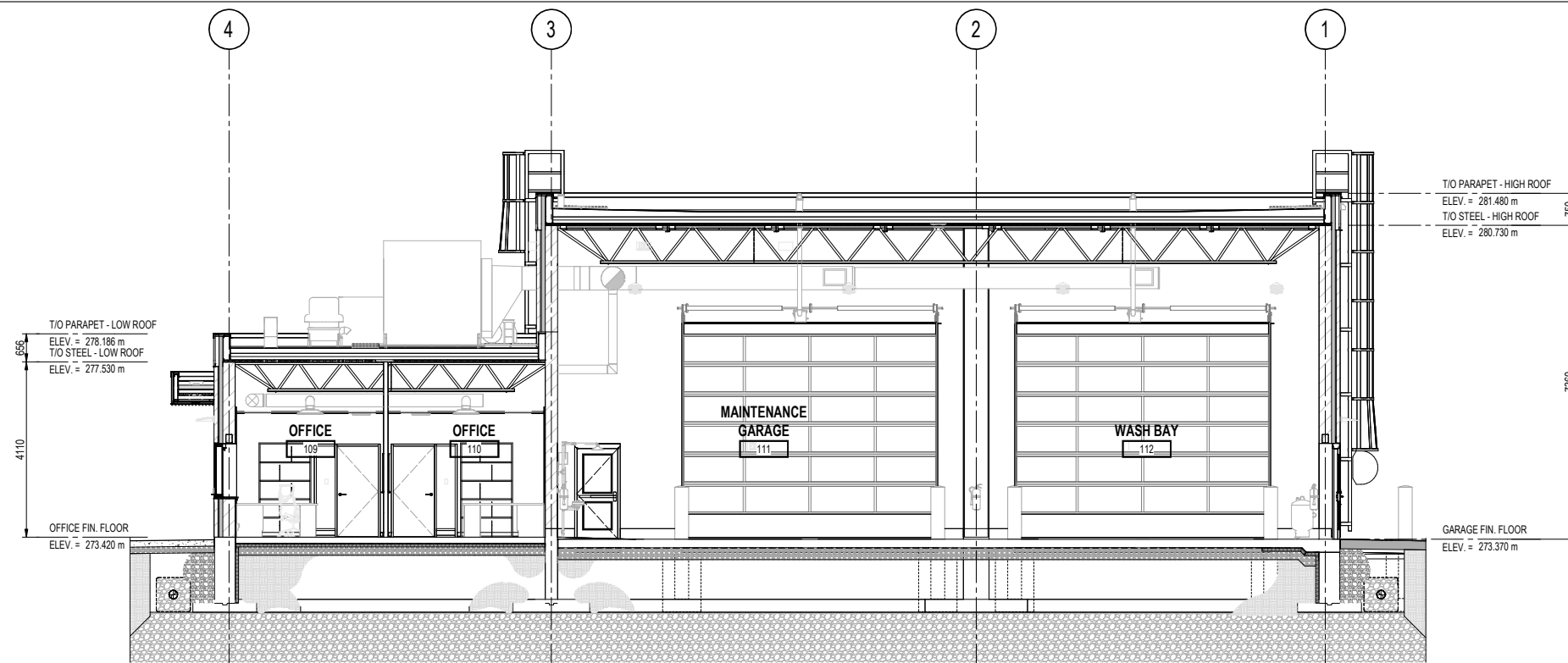
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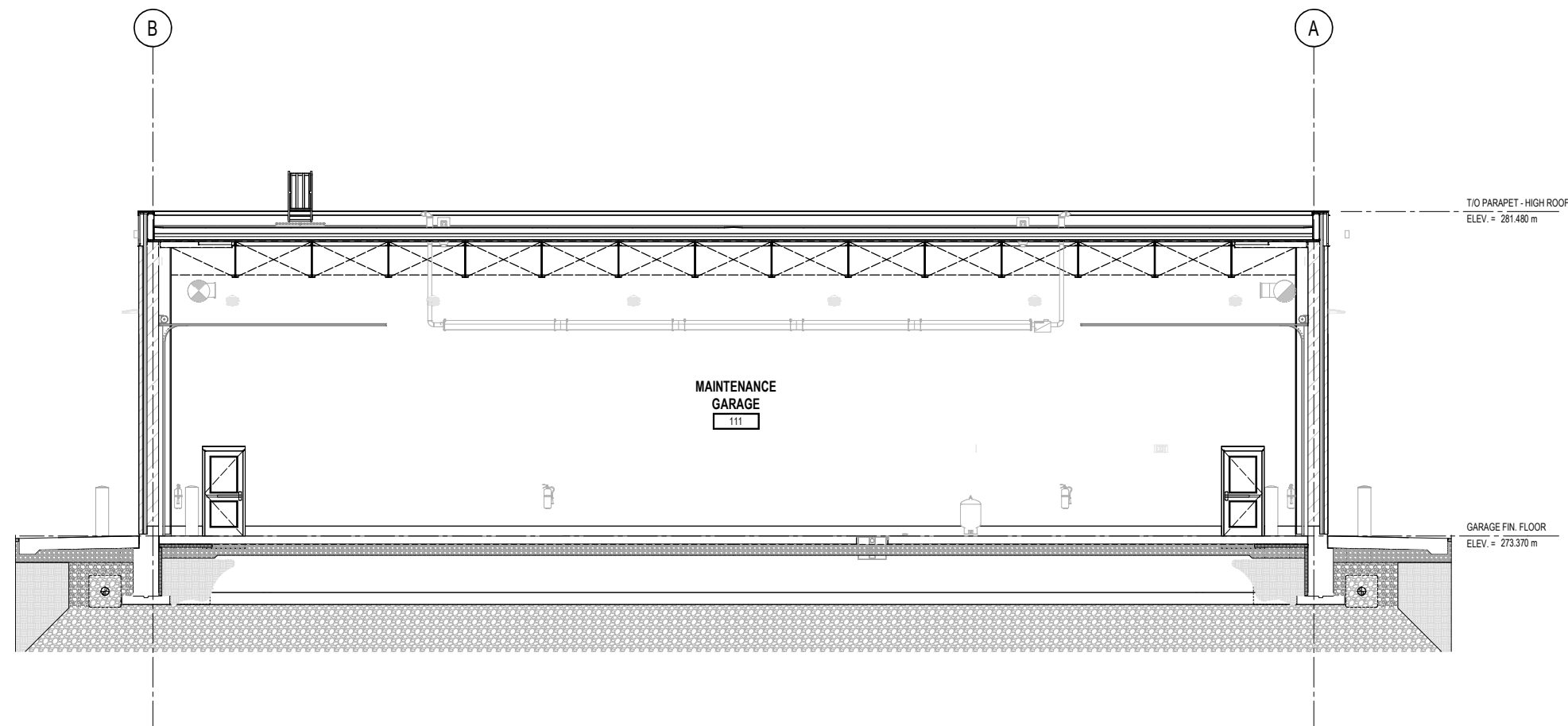
FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING - CROSS
SECTIONS

63

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04 CROSS - SECTION
SCALE: 1 : 75



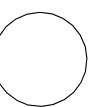
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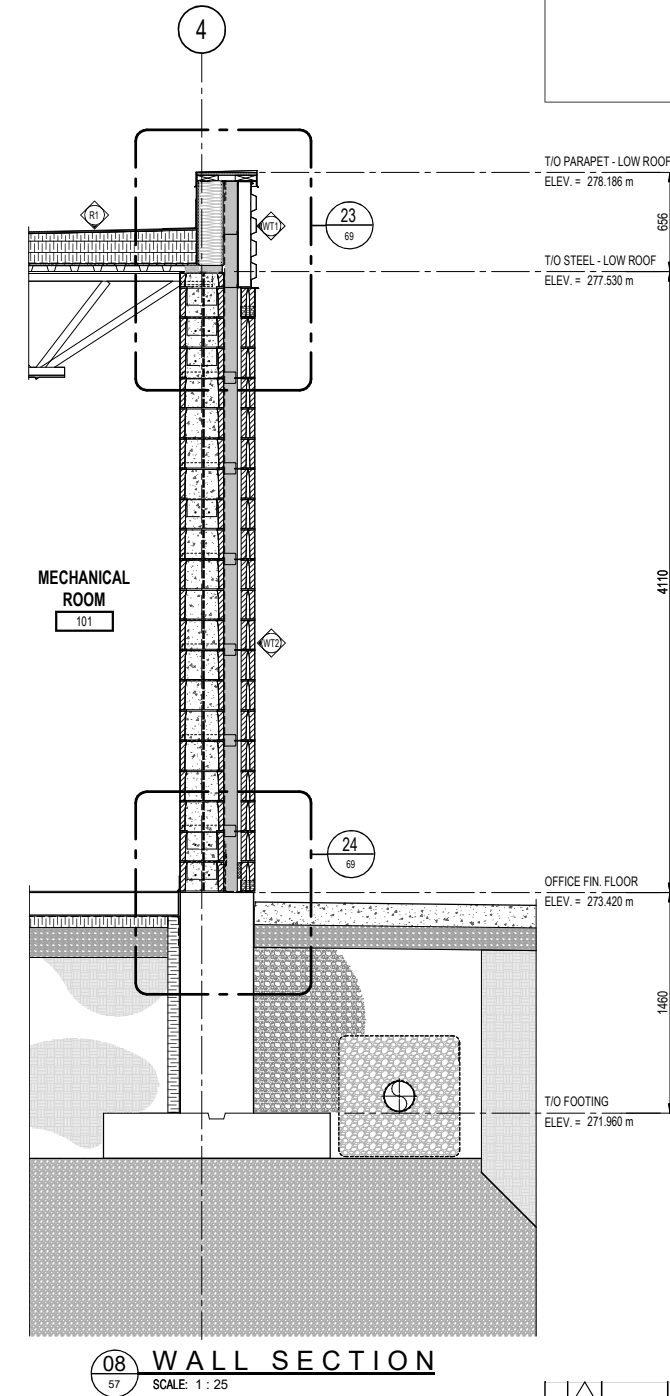
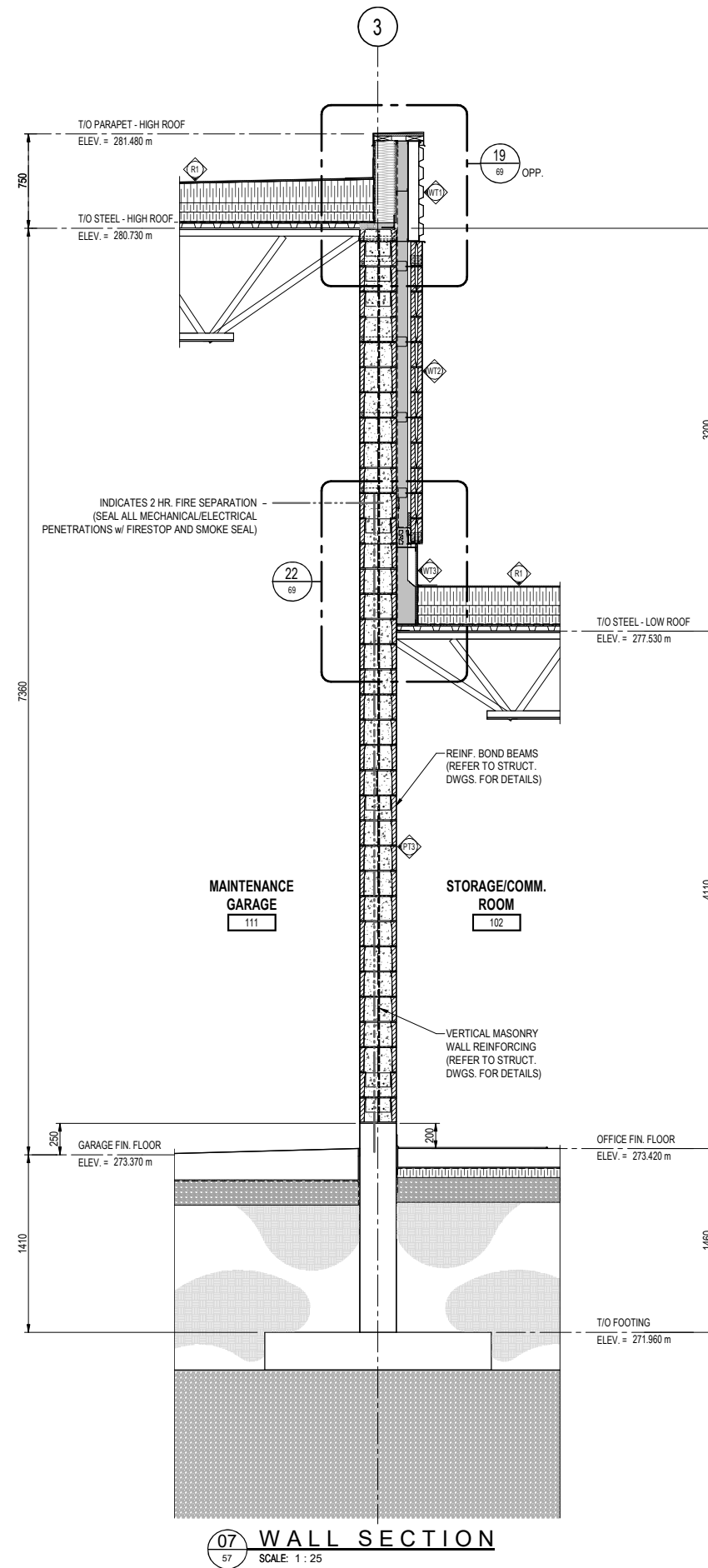
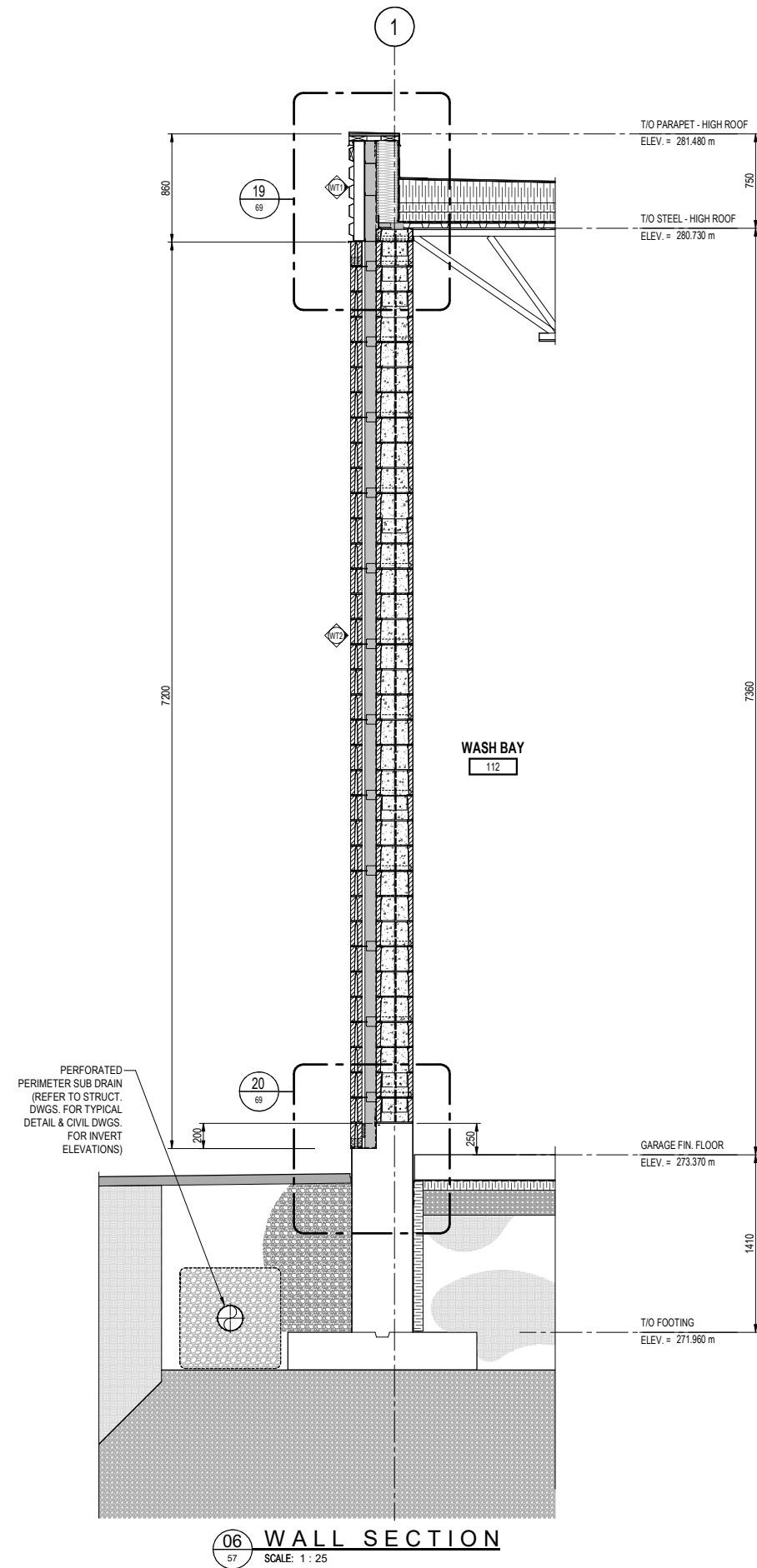
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FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING - WALL
SECTIONS

64

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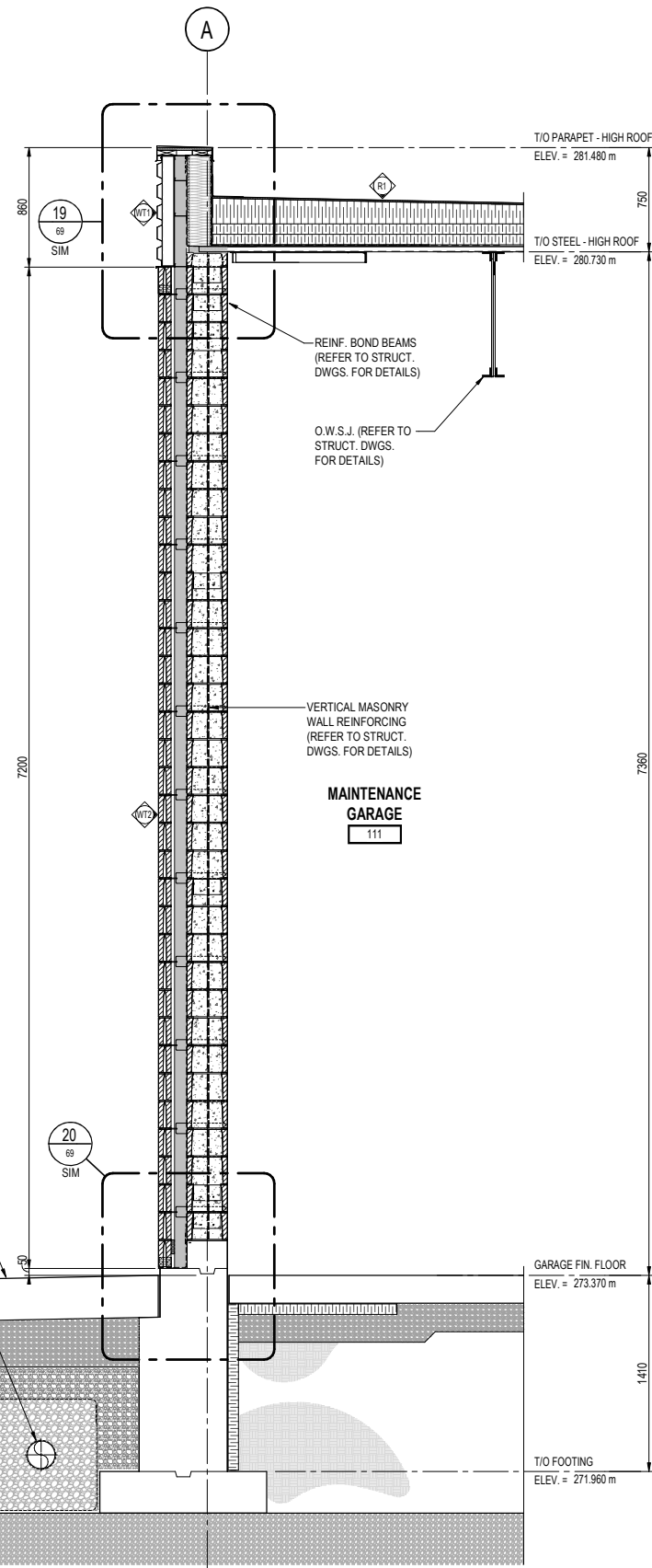
ARCHITECTURAL

FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING - WALL
SECTIONS AND DETAIL

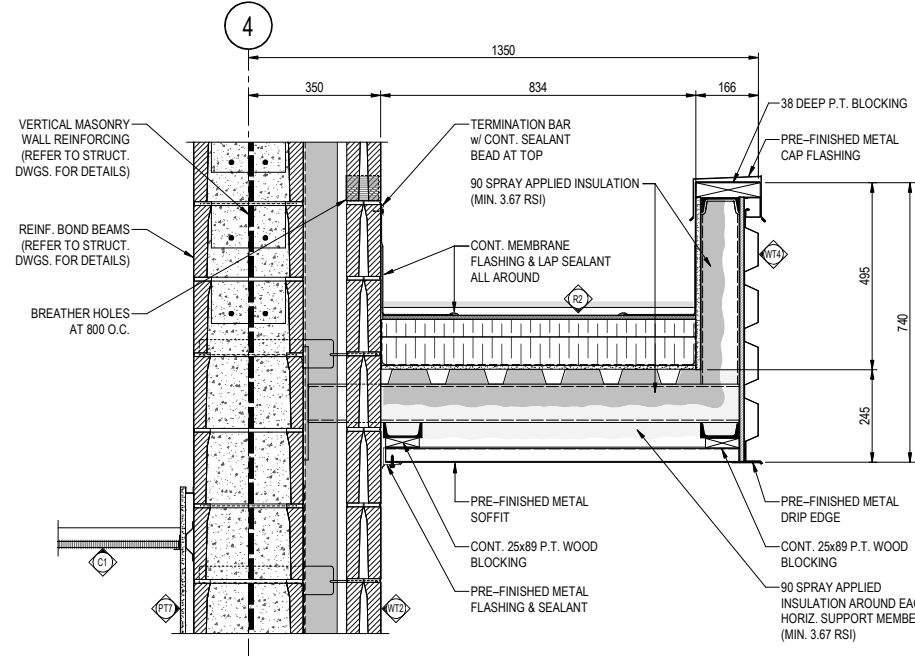
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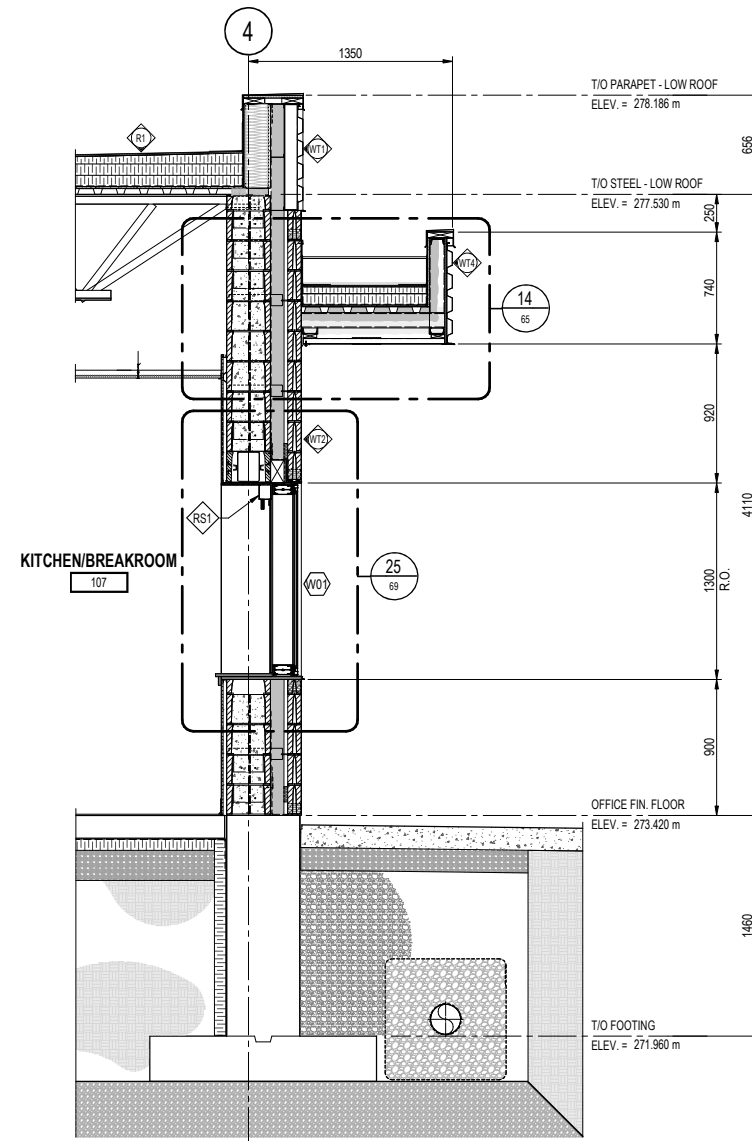
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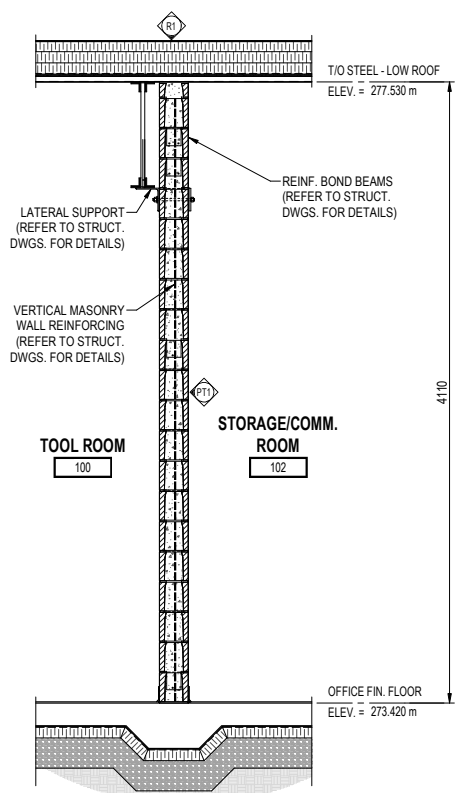
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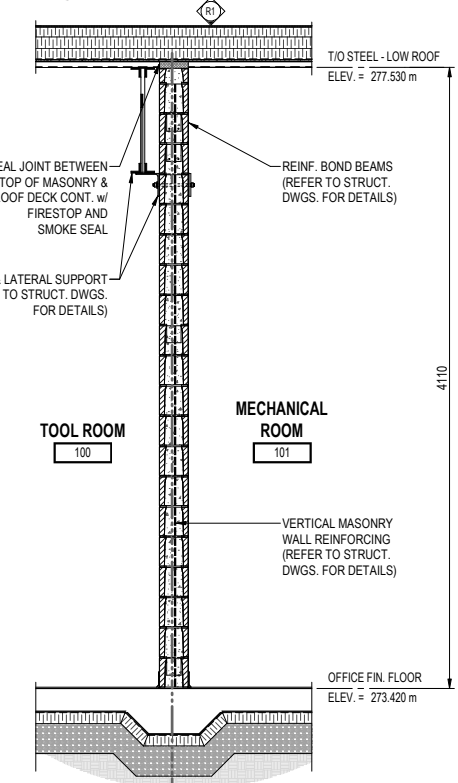
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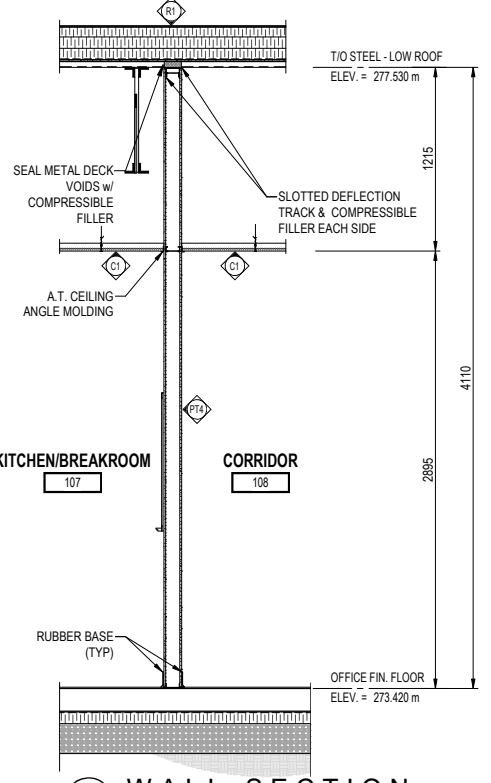
10 WALL SECTION
SCALE: 1 : 25



13 WALL SECTION
SCALE: 1 : 25



11 WALL SECTION
SCALE: 1 : 25



12 WALL SECTION
SCALE: 1 : 25

11 WALL SECTION
SCALE: 1 : 25

INDICATES 1 HR. FIRE SEPARATION (SEAL ALL MECHANICAL/ELECTRICAL PENETRATIONS w/ FIRESTOP AND SMOKE SEAL)

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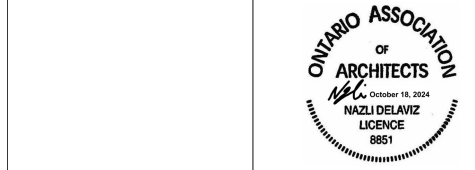
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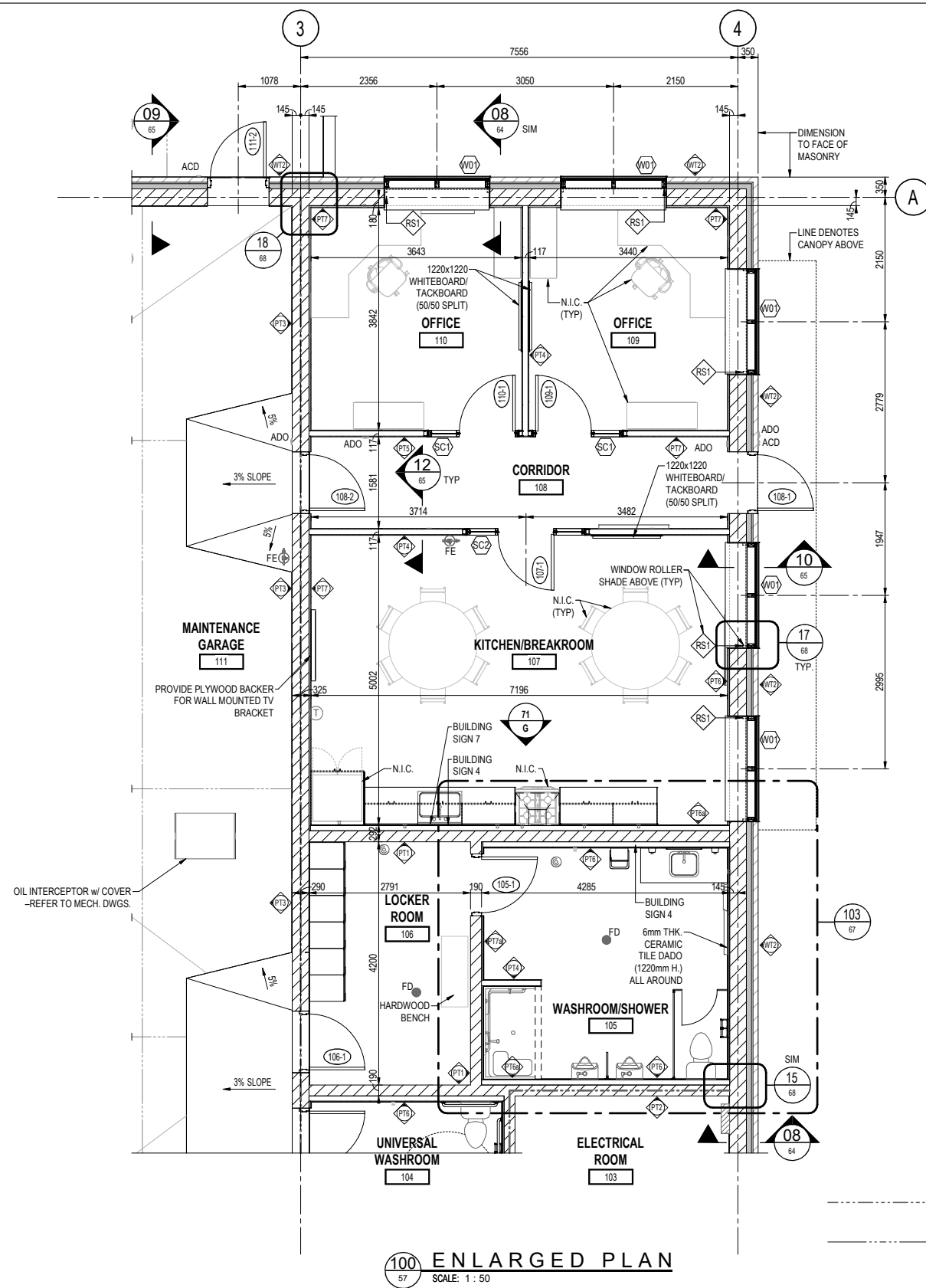
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FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING -
ENLARGED PLANS

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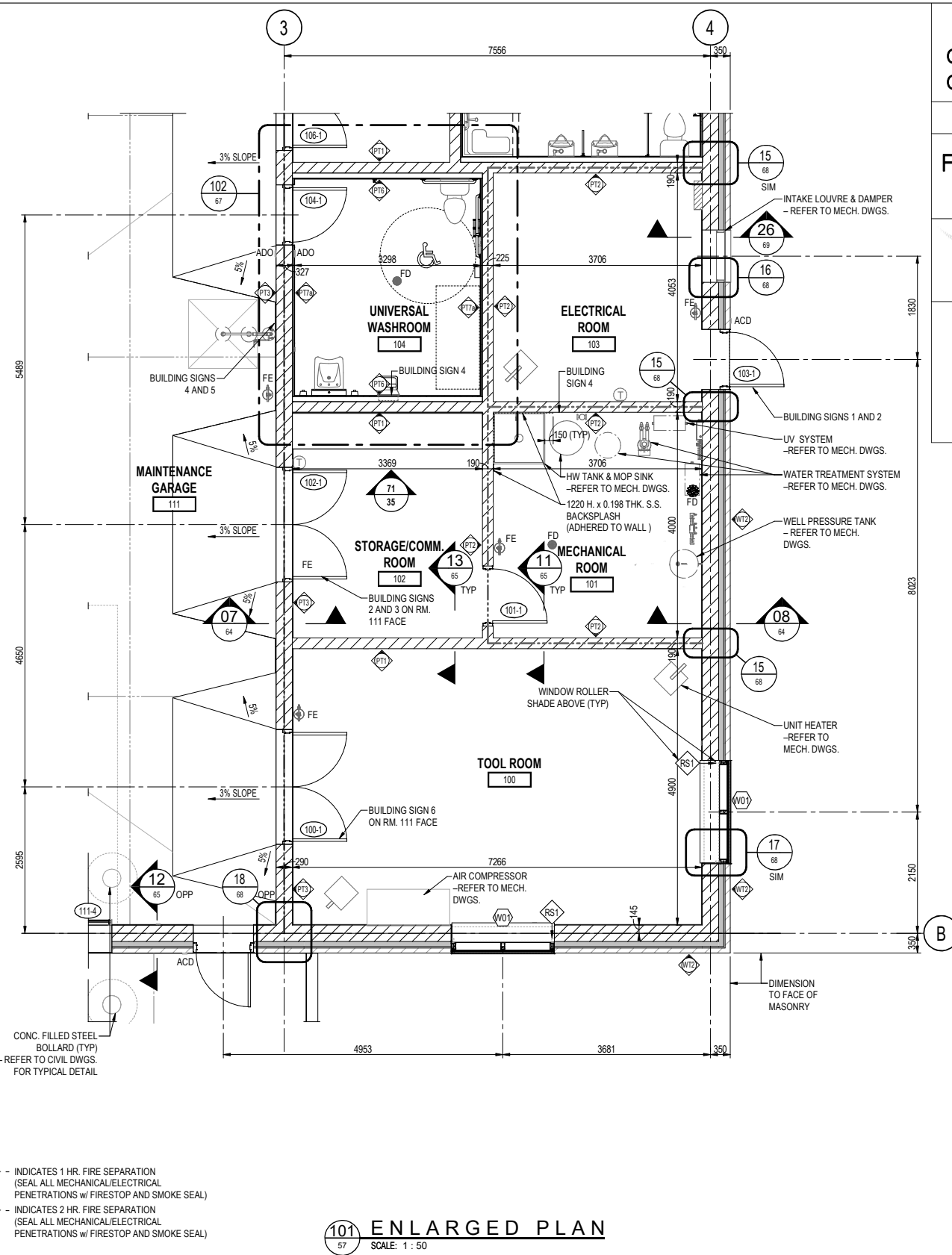


SHEET
66



100 ENLARGED PLAN
SCALE: 1 : 50

--- INDICATES 1 HR. FIRE SEPARATION
(SEAL ALL MECHANICAL/ELECTRICAL
PENETRATIONS w/ FIRESTOP AND SMOKE SEAL)
- - - INDICATES 2 HR. FIRE SEPARATION
(SEAL ALL MECHANICAL/ELECTRICAL
PENETRATIONS w/ FIRESTOP AND SMOKE SEAL)



101 ENLARGED PLAN
SCALE: 1 : 50

GENERAL NOTES:

- PERIMETER OF ALL WALL PENETRATIONS (LOUVERS, PIPES, DOOR FRAMES, C.J. ETC.) ARE TO RECEIVE DYNAMIC FC SEALANT BY 'TREMCO'. COLOUR TO MATCH ADJACENT SURFACE.
- ALL COLOURS FOR ARCHITECTURAL MASONRY UNITS, FLASHING, LETTERING, LOUVERS, SEALANTS AND EXTERIOR PAINTS WILL BE SELECTED FROM MANUFACTURERS STANDARD COLOURS. COLOURS WILL BE SELECTED AND APPROVED BY ENGINEER.
- CONFIRM LOCATION AND SIZE OF ALL MECHANICAL LOUVERS/FRAMES PRIOR TO COMMENCING MASONRY WORK.

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FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING -
WASHROOM PLANS AND ELEVATIONS

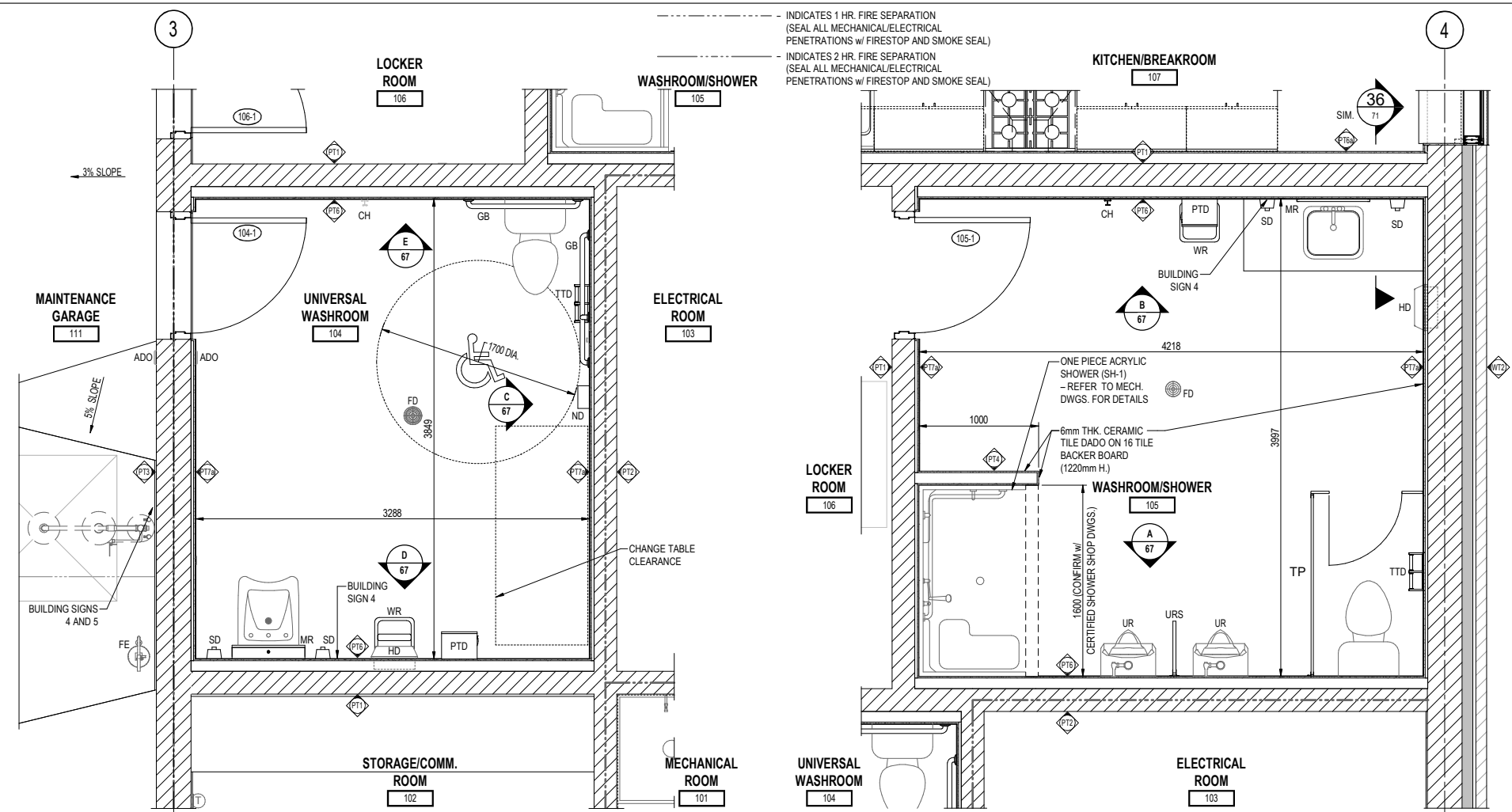
67

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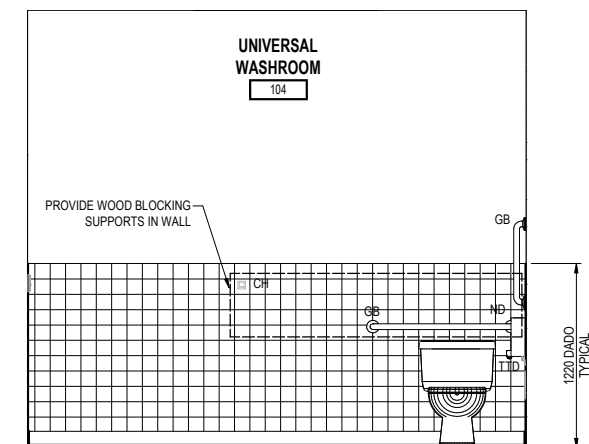
WASHROOM ACCESSORIES ABBREVIATIONS

- BCT - BABY CHANGE TABLE
- CH - CLOTHES HOOK
- CO - CLEAN-OUT
- FD - FLOOR DRAIN
- GB - GRAB BAR
- HD - HAND DRYER
- ND - NAPKIN DISPOSAL
- NIC - NOT IN CONTRACT
- MIR - MIRROR
- PTD - PAPER TOWEL DISPENSER
- SH - SHELF
- SD - SOAP DISPENSER
- TP - CEILING HUNG TOILET PARTITION
- TTD - TOILET TISSUE DISPENSER
- UR - URINAL
- URS - URINAL SCREEN
- WR - WASTE RECEPTACLE

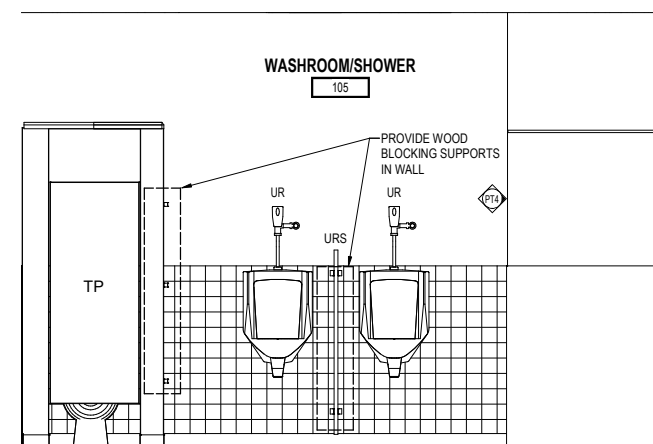


102 ENLARGED PLAN - UNIVERSAL WASHROOM
SCALE: 1 : 25

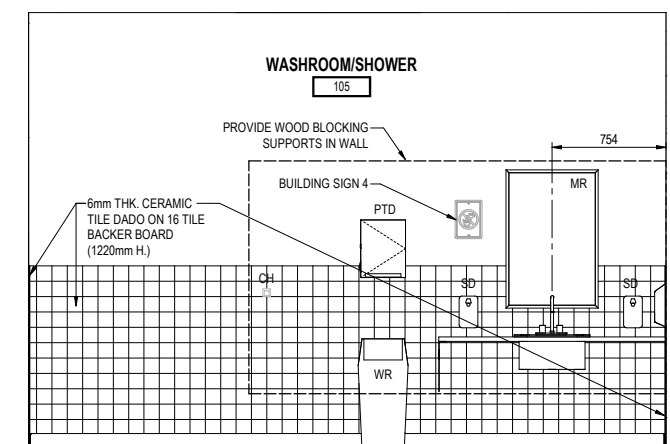
103 ENLARGED PLAN - MALE WASHROOM/SHOWER
SCALE: 1 : 25



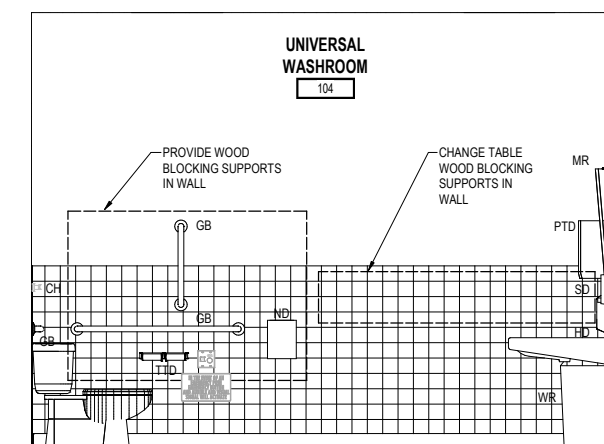
E INTERIOR ELEVATION
SCALE: 1 : 25



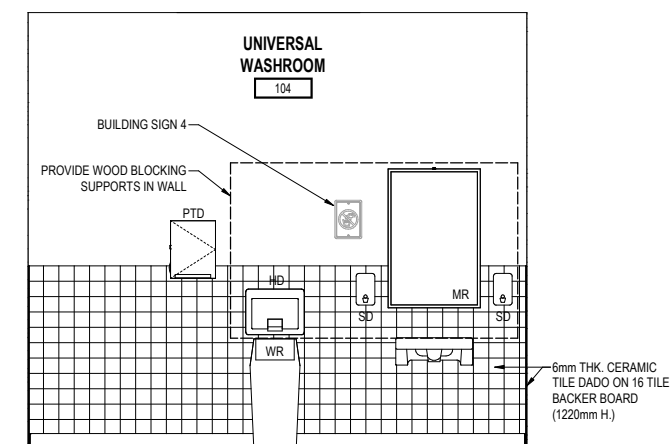
A INTERIOR ELEVATION
SCALE: 1 : 25



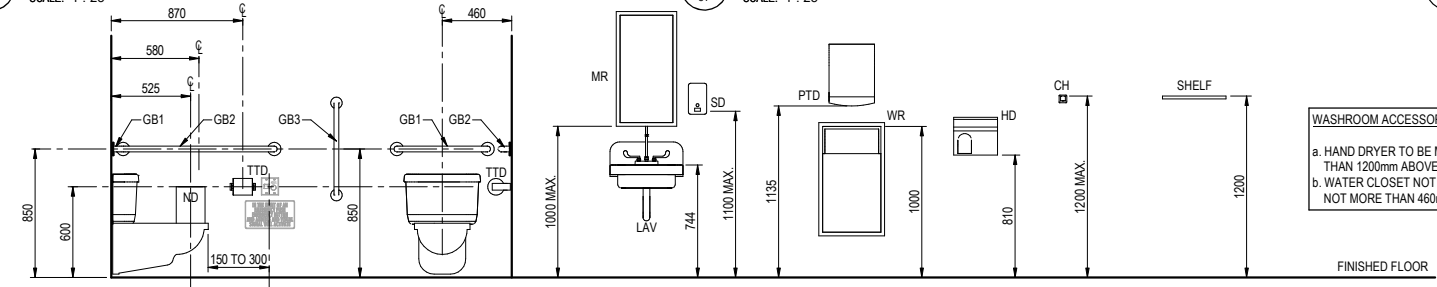
B INTERIOR ELEVATION
SCALE: 1 : 25



C INTERIOR ELEVATION
SCALE: 1 : 25



D INTERIOR ELEVATION
SCALE: 1 : 25



WASHROOM ACCESSORIES MOUNTING DIMENSIONS
SCALE: 1 : 25

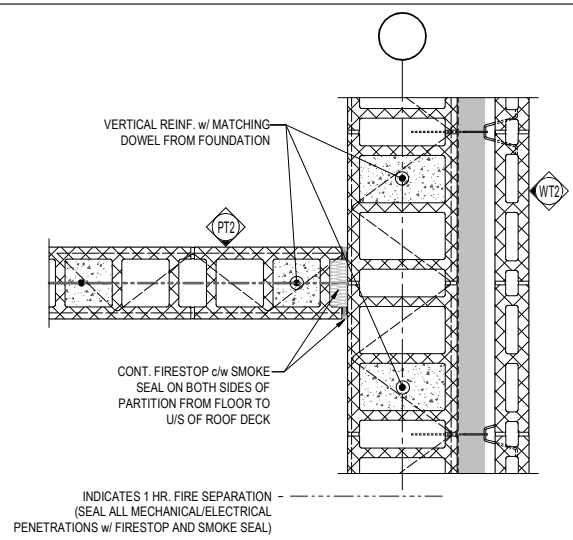
WASHROOM ACCESSORIES MOUNTING NOTES:

- a. HAND DRYER TO BE MOUNTED NOT MORE THAN 1200mm ABOVE FLOOR.
- b. WATER CLOSET NOT LESS THAN 400mm AND NOT MORE THAN 460mm ABOVE FLOOR.

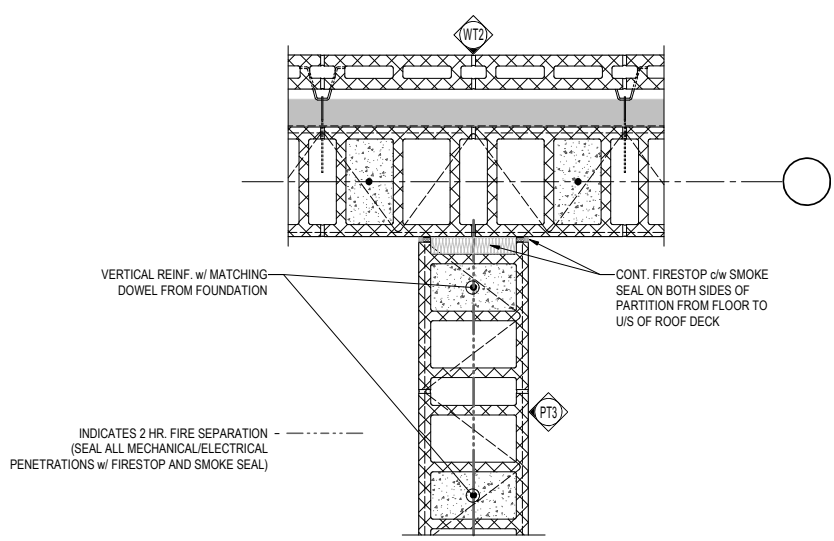
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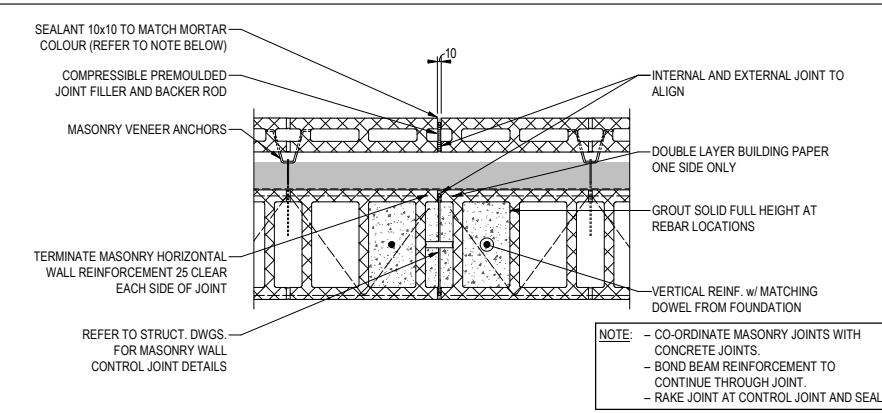
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15 PLAN DETAIL
SCALE: 1 : 10



18 PLAN DETAIL
SCALE: 1 : 10



MASONRY WALL CONTROL JOINT
SCALE: 1 : 10

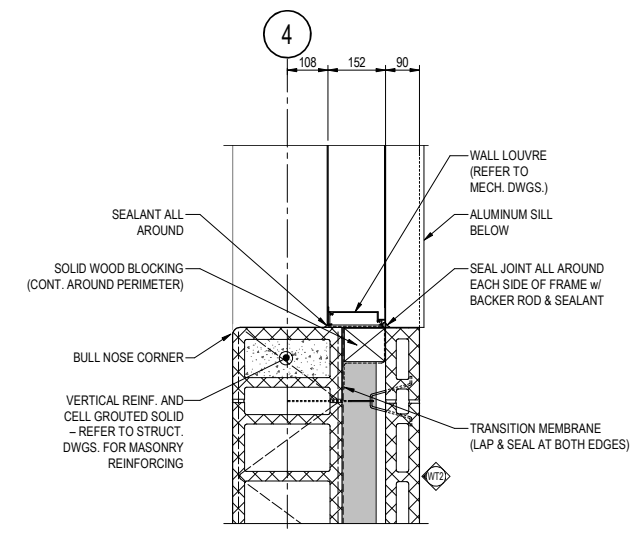
CONT No 2023-4010
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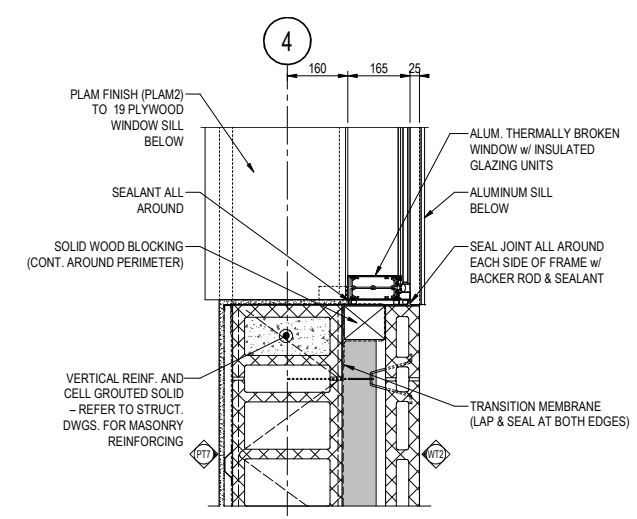
FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING - PLAN
DETAILS

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68



16 PLAN DETAIL
SCALE: 1 : 10



17 PLAN DETAIL
SCALE: 1 : 10

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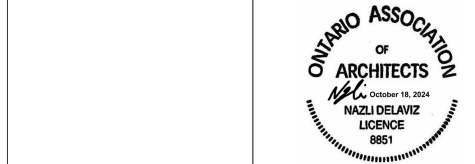
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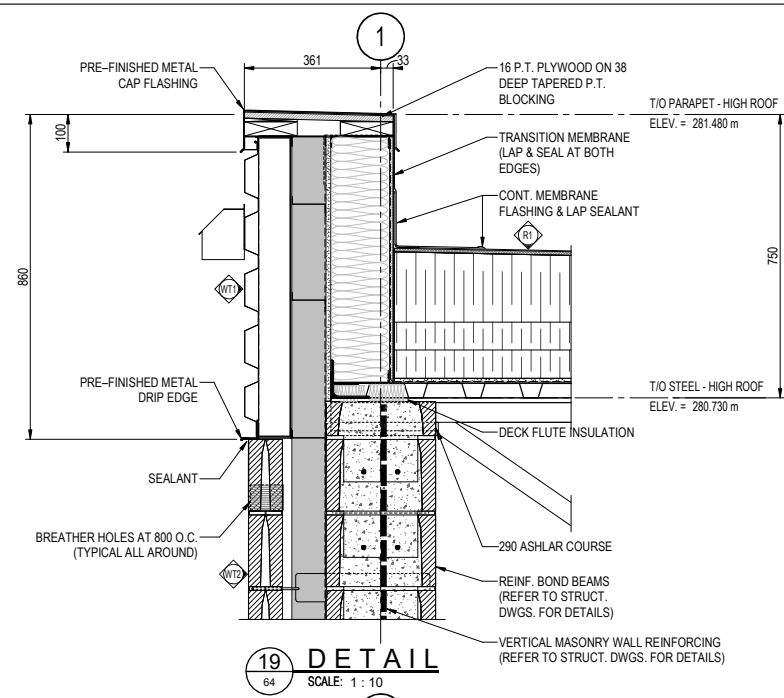
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FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING -
SECTION DETAILS

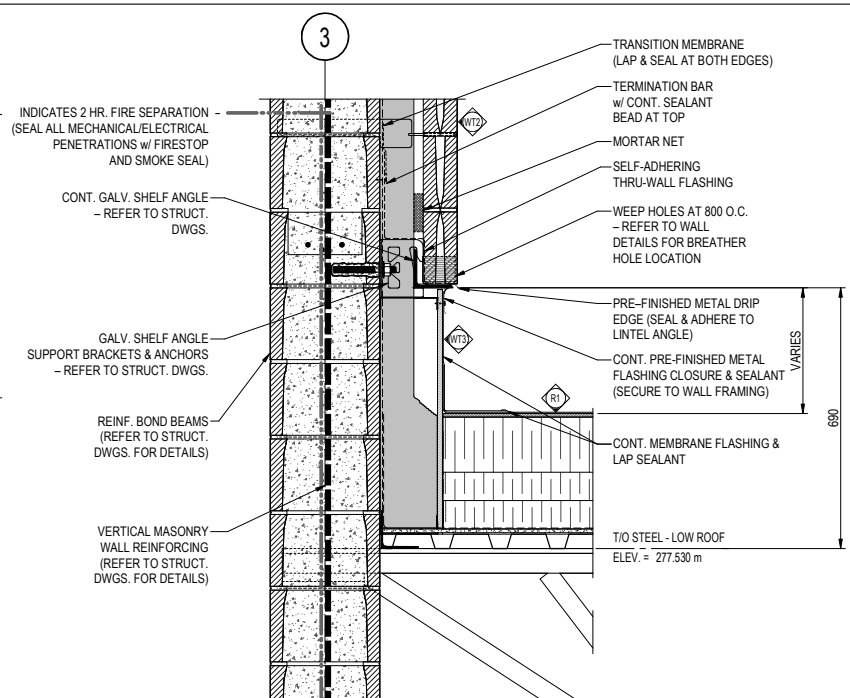
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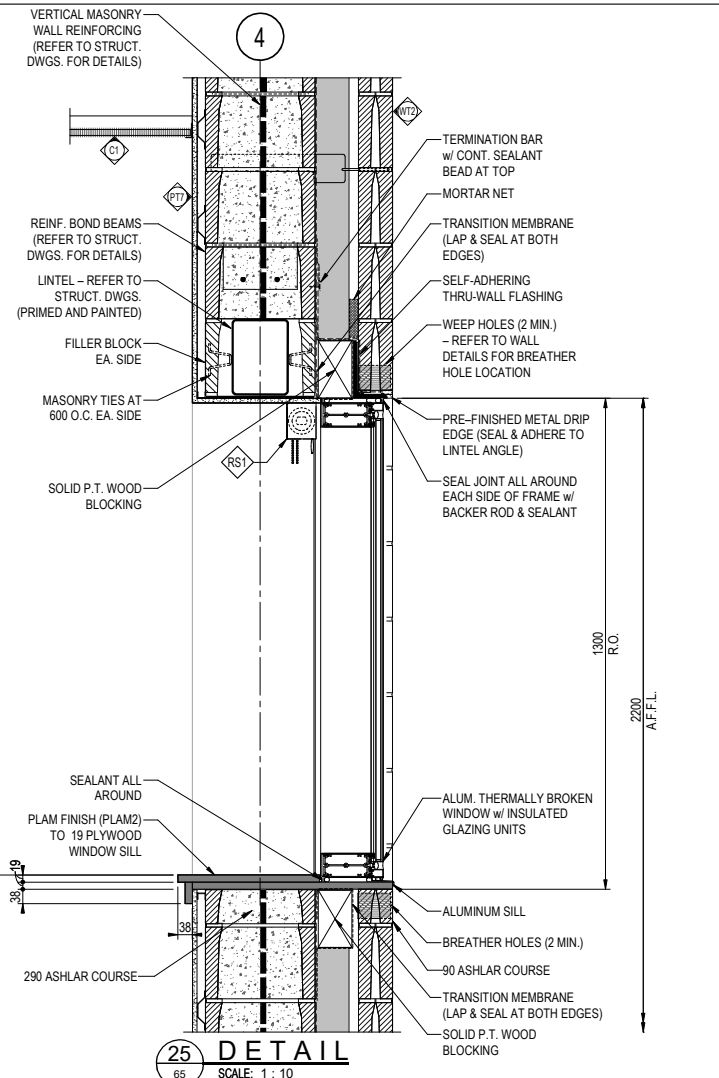
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69



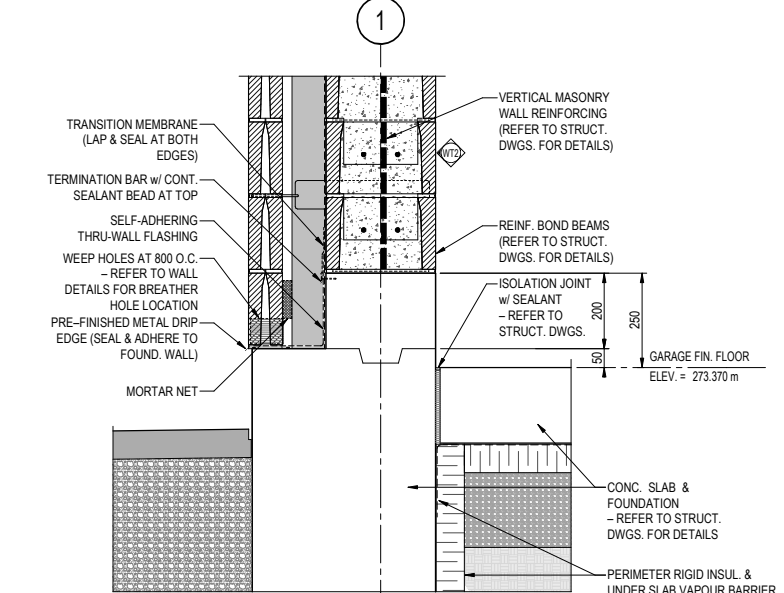
19 DETAIL
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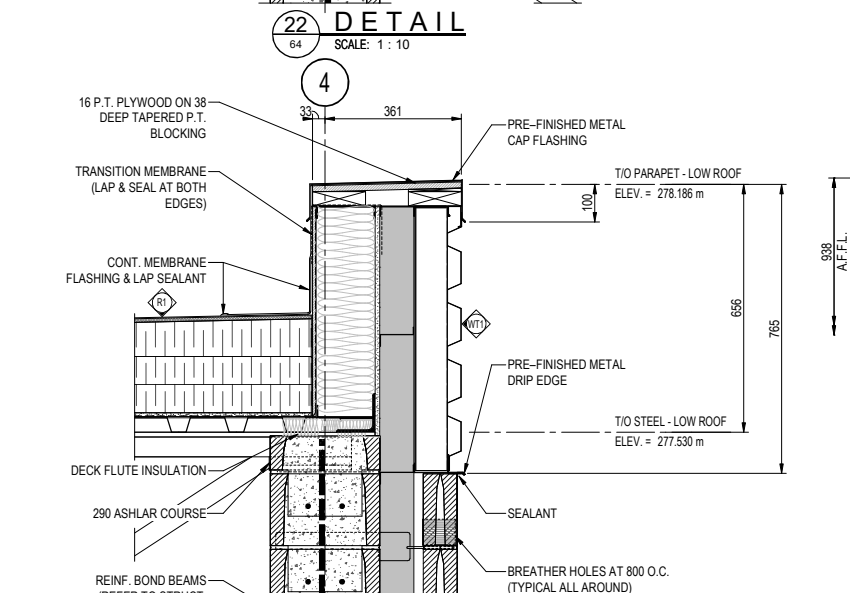
22 DETAIL
SCALE: 1 : 10



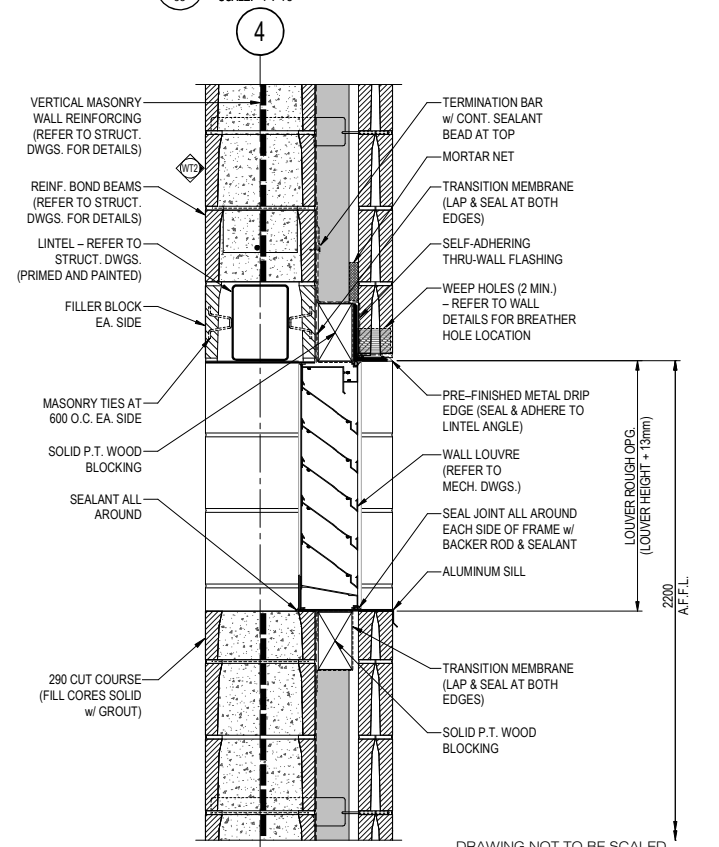
25 DETAIL
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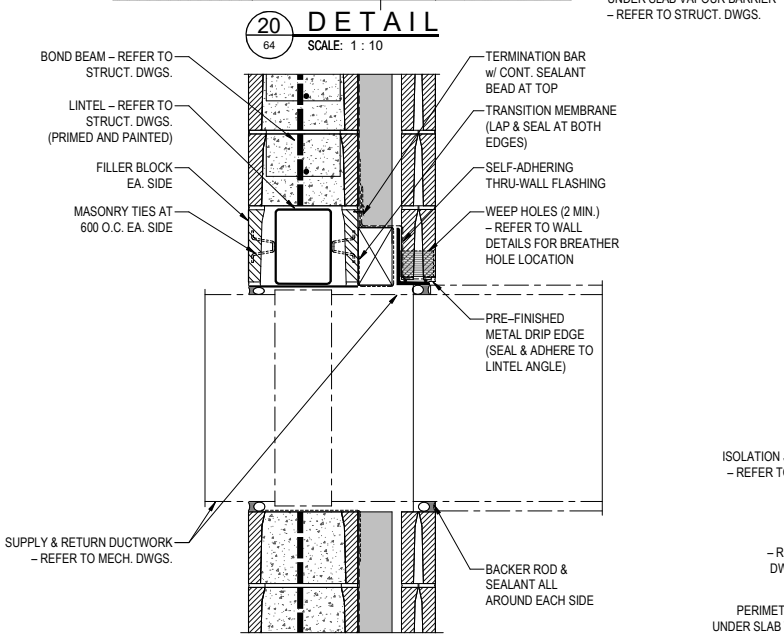
20 DETAIL
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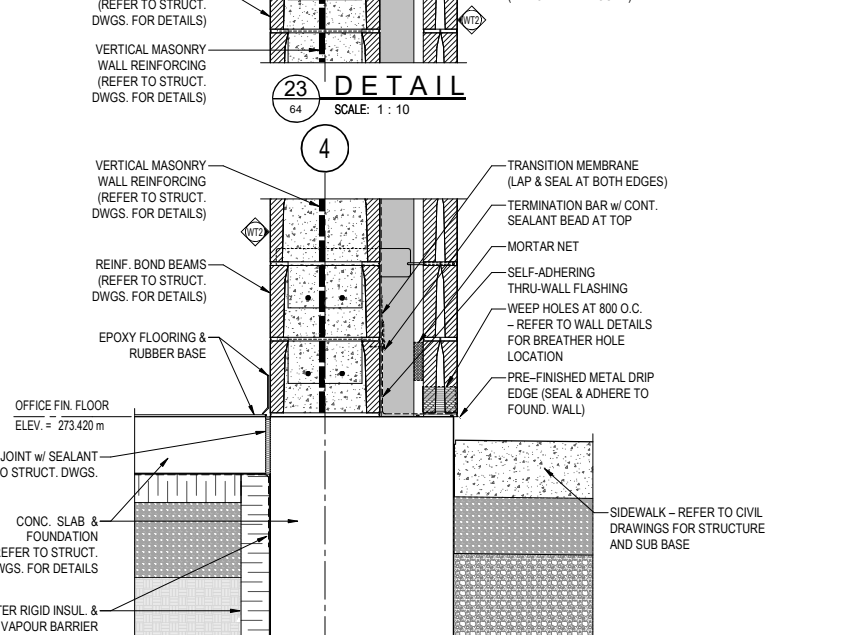
23 DETAIL
SCALE: 1 : 10



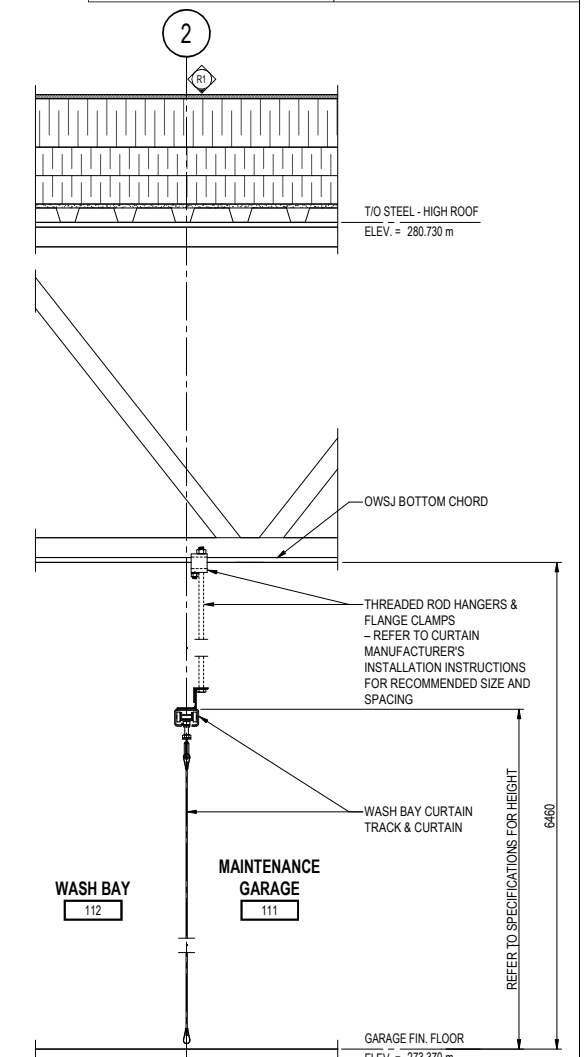
26 DETAIL
SCALE: 1 : 10



21 DETAIL - DUCT PENETRATION
SCALE: 1 : 10



24 DETAIL
SCALE: 1 : 10



DETAIL - WASHBAY CURTAIN
SCALE: 1 : 10

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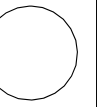
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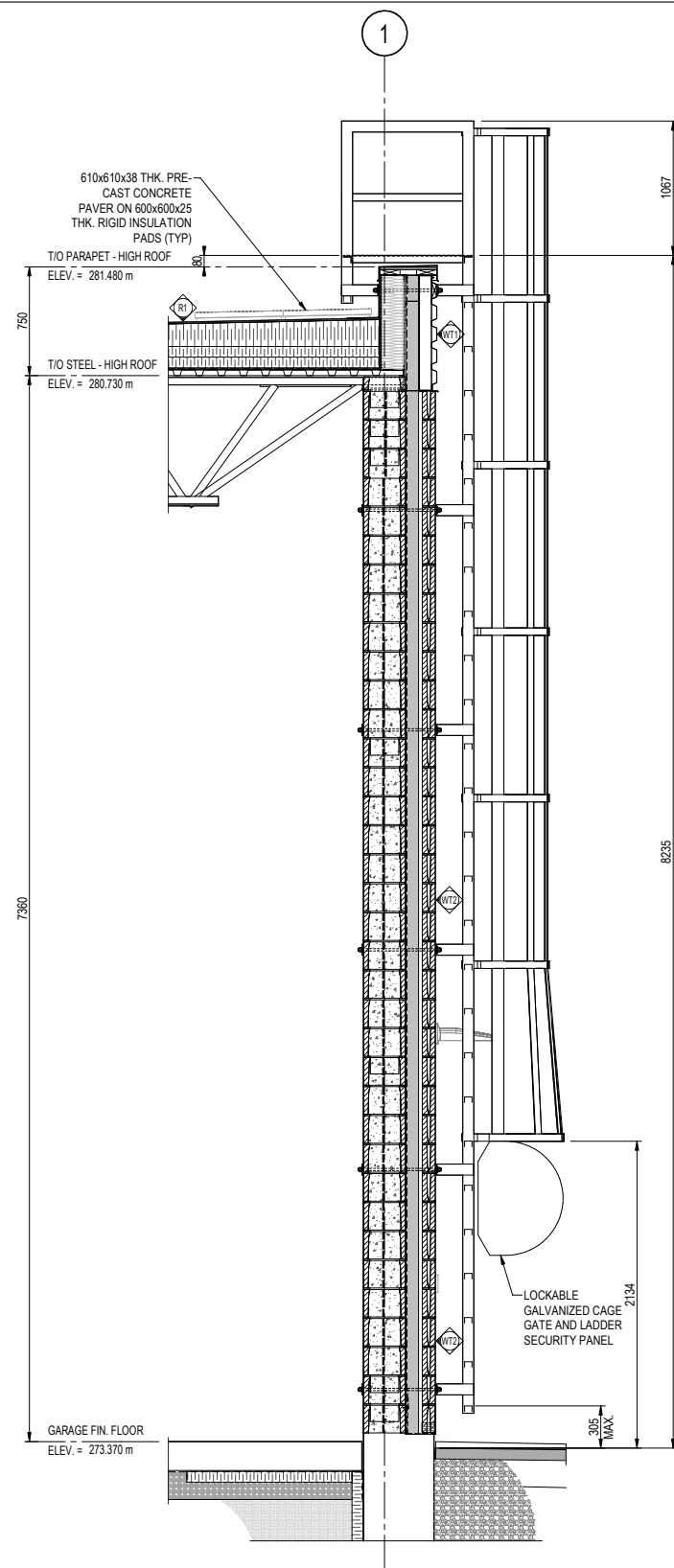
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VEHICLE MAINTENANCE BUILDING -
LADDER SECTIONS AND DETAILS

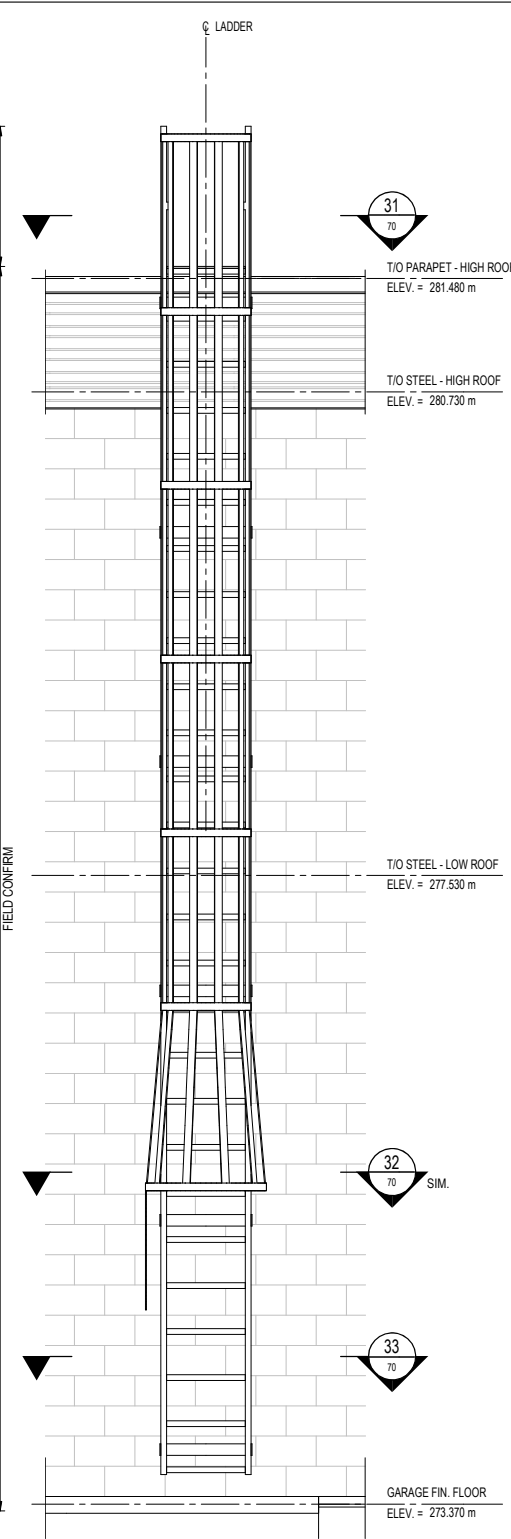
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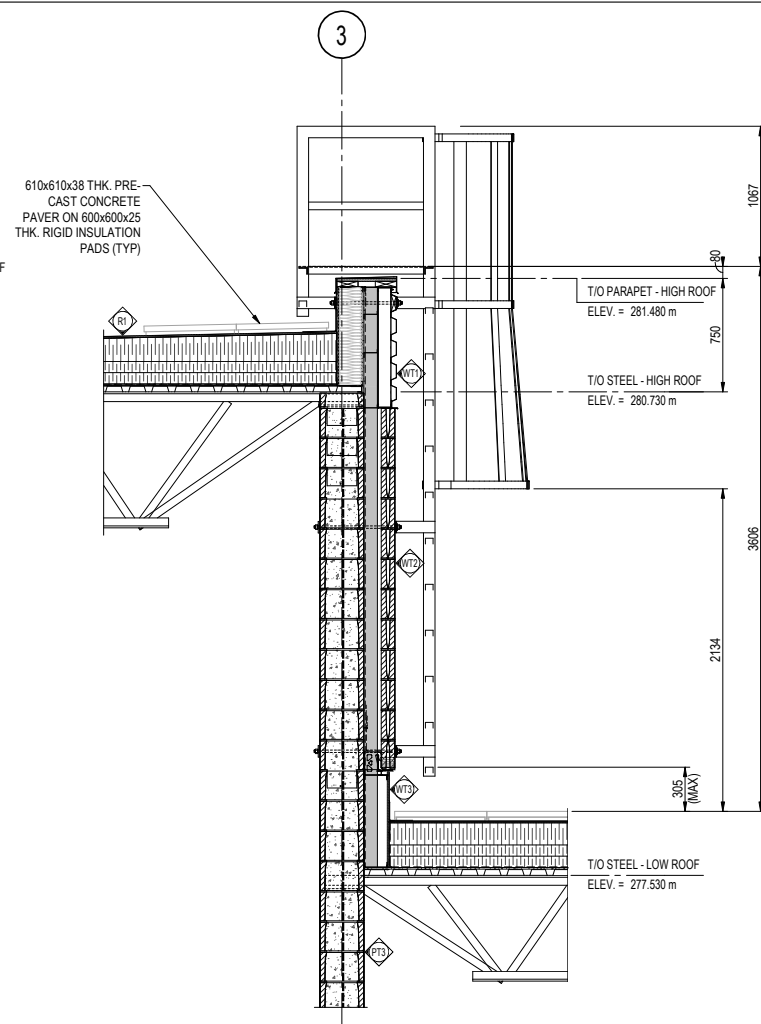
SHEET
70



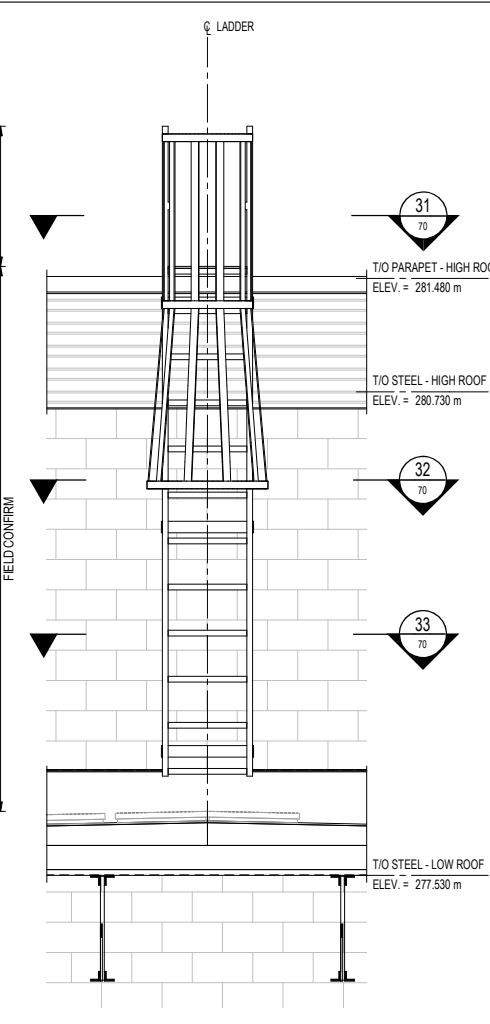
27 SECTION
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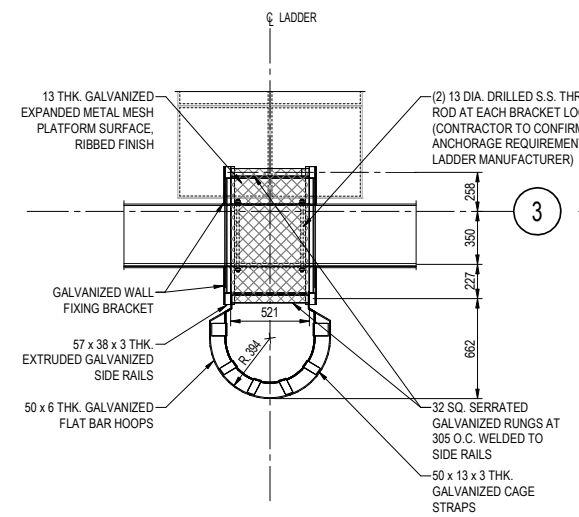
28 ELEVATION
SCALE: 1 : 25



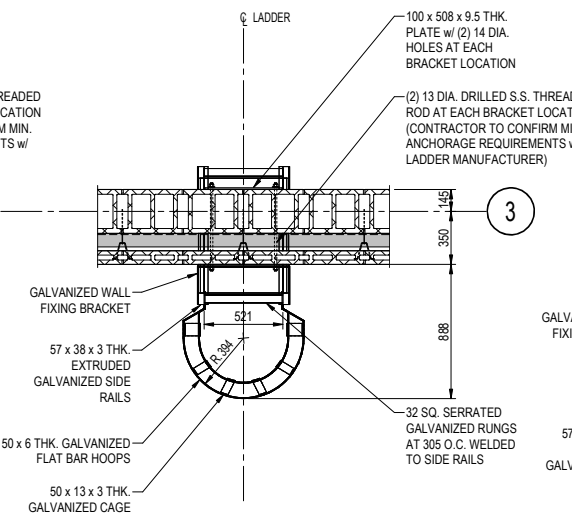
29 SECTION
SCALE: 1 : 25



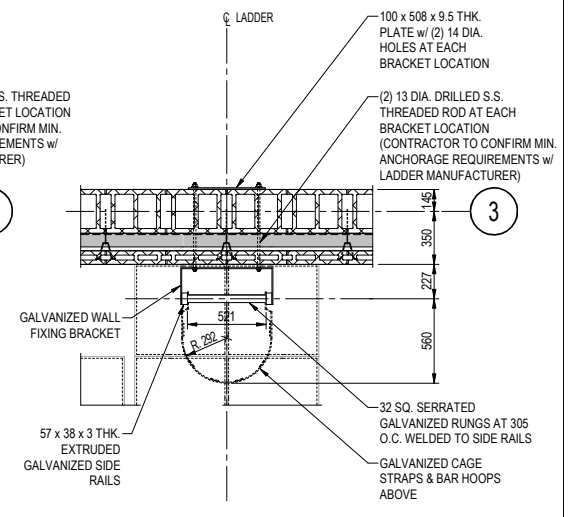
30 ELEVATION
SCALE: 1 : 25



31 ENLARGED PLAN
SCALE: 1 : 25



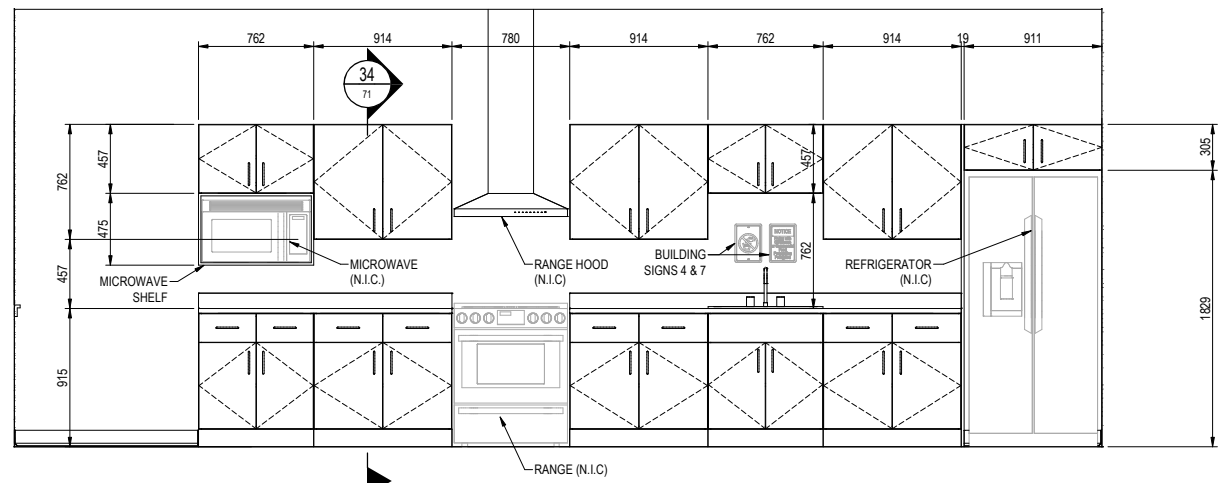
32 ENLARGED PLAN
SCALE: 1 : 25



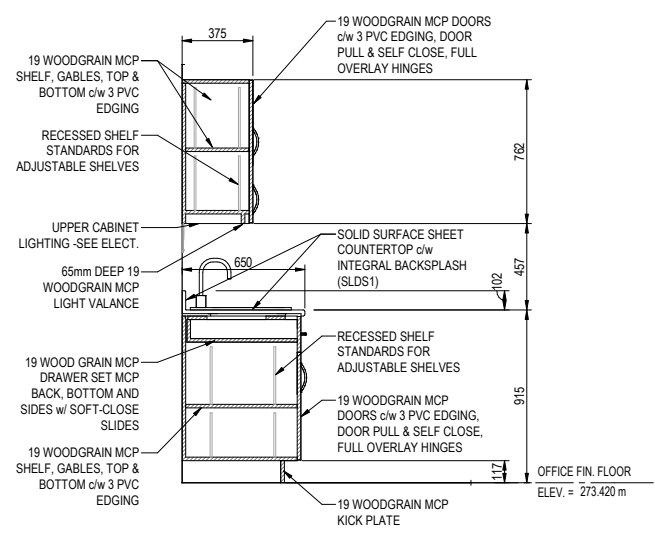
33 ENLARGED PLAN
SCALE: 1 : 25

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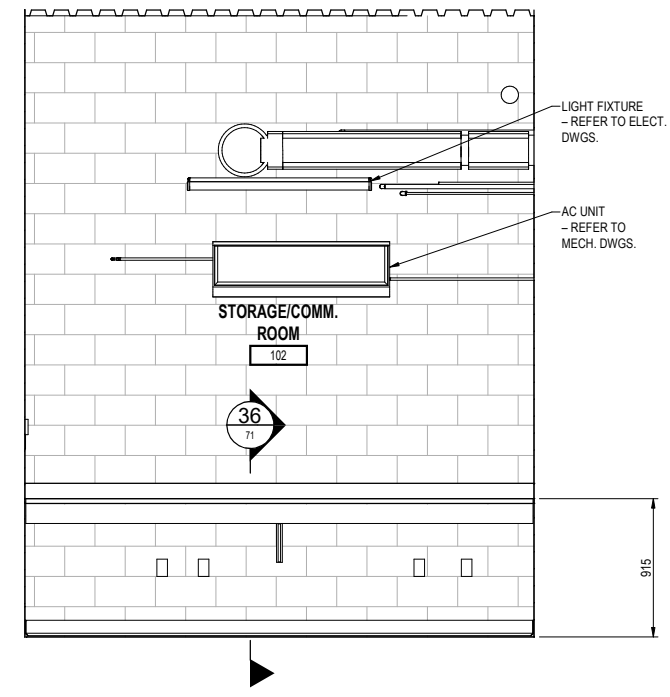
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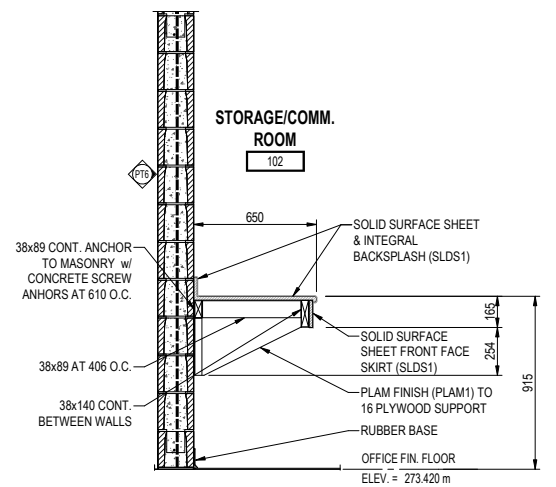
G INTERIOR ELEVATION
66 SCALE: 1 : 25



34 TYPICAL SECTION - CASEWORK
71 SCALE: 1 : 20

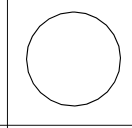


35 INTERIOR ELEVATION
66 SCALE: 1 : 25



36 SECTION
67 SCALE: 1 : 20

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FENELON FALLS MPY
VEHICLE MAINTENANCE BUILDING -
MILLWORK SECTIONS AND DETAILS

71

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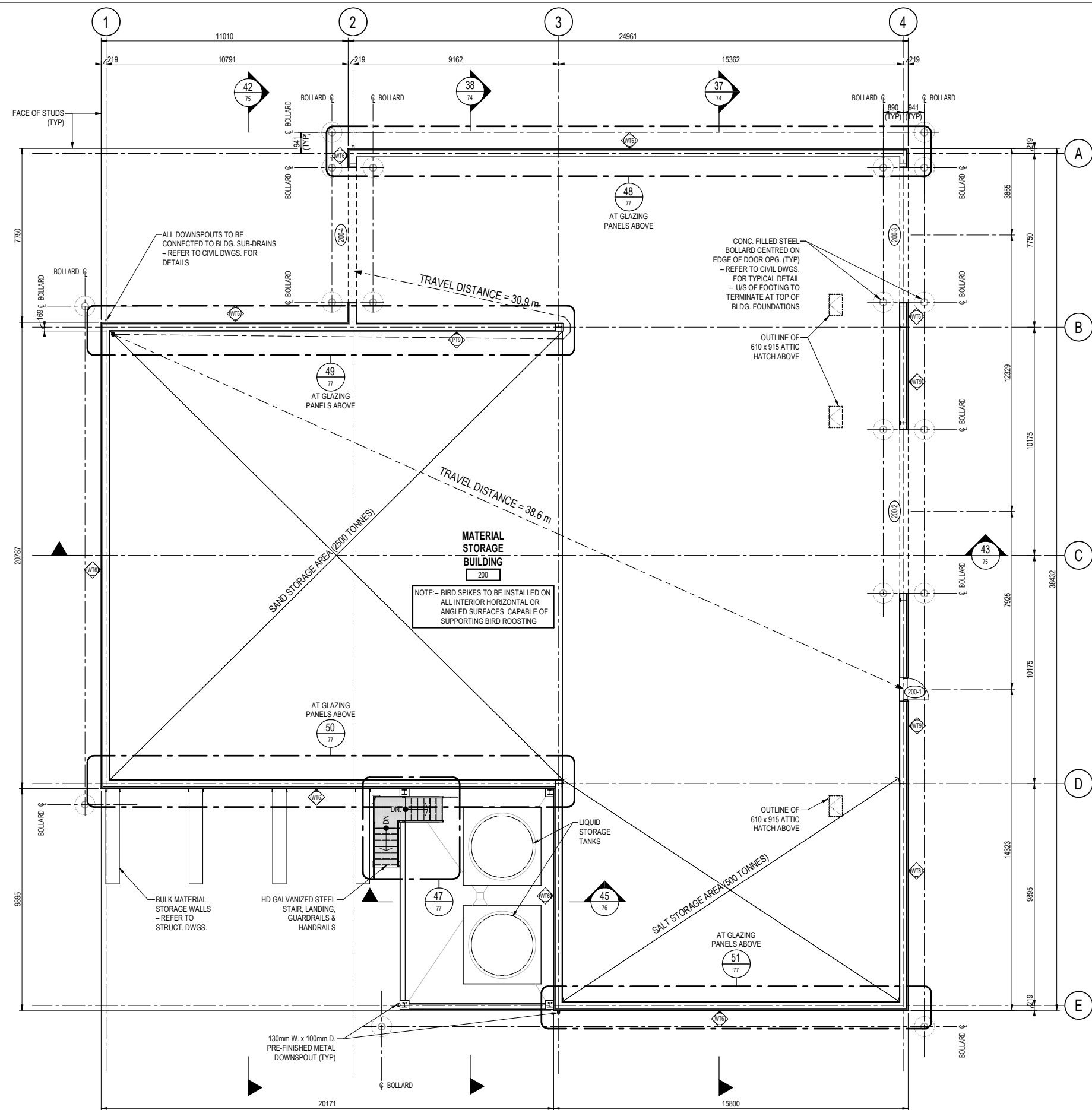
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FENELON FALLS MPY
MATERIAL STORAGE BUILDING - GROUND
FLOOR PLAN

72

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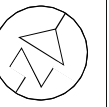
FLOOR PLAN
SCALE: NOT TO SCALE

ONTARIO BUILDING CODE DATA MATRIX			
PART 3 - FIRE PROTECTION, OCCUPANT SAFETY AND ACCESSIBILITY			
Name of Practice: Dillon Building Design Ltd., Engineers and Architects, Certificate of Practice Number 2145			
Address 1: 130 Dufferin Avenue, Suite 1400			
Address 2: London, Ontario, N6A 5R2 Tel: 519-438-1288 Fax: 519-672-8209			
Contact: [Redacted]			
Name of Project: Fenelon Falls Maintenance Patrol Yard (MPY)			
Location/Address: South East Quadrant of Glenora Road and County Lane			
Date:	D.Reg. 332/12		LAST AMENDMENT: O.Reg. 89/23
3.00 BUILDING CODE VERSION:	D.Reg. 332/12	LAST AMENDMENT:	O.Reg. 89/23
3.01 PROJECT TYPE:	New Construction		(A) 1.1.2.
3.02 MAJOR OCCUPANCY CLASSIFICATION:	F3	Low Hazard Industrial	USE: Material Storage Building (A) 1.1.2.1)
3.03 SUPERIMPOSED MAJOR OCCUPANCIES:	NO		3.2.2.
3.04 BUILDING AREA (m²):	DESCRIPTION	EXISTING	NEW
	New Building	N/A	1,097.00
	TOTAL	1,097.00	1,097.00
3.05 GROSS AREA (m²):	DESCRIPTION	EXISTING	NEW
	New Building	N/A	1,097.00
	TOTAL	1,097.00	1,097.00
3.06 MEZZANINE AREA (m²):	DESCRIPTION	EXISTING	NEW
	ME		
	TOTAL		
3.07 BUILDING HEIGHT:	1	STOREYS ABOVE GRADE	12.00
	0	STOREYS BELOW GRADE	
			(M) 1.4.1.2. & 3.2.1.1.
3.08 HIGH BUILDING:	No		3.2.0
3.09 NUMBER OF STREETS/FIREFIGHTER ACCESS:	1	STREET(S)	3.2.2.18. & 3.2.5.
3.10 BUILDING CLASSIFICATION:	3.2.2.80	Group F, Division 3, 1 Storey	3.2.2.20.83.
3.11 SPRINKLER SYSTEM:	Not Required		3.2.1.5. & 3.2.2.17.
3.12 STANDPIPE SYSTEM:	Not Required		3.2.8.
3.13 FIRE ALARM SYSTEM:	Not Required		3.2.4.
3.14 WATER SERVICE/SUPPLY IS ASSOCIATE:	Yes		
3.15 CONSTRUCTION TYPE:	RESTRICTION	Combustible Permitted	3.2.2.20.83.
	ACTUAL	Combination	
3.16 IMPORTANCE CATEGORY:	Normal		3.1.4.7.
3.17 SEISMIC HAZARD INDEX (S _h , I _s , D _s):	0.00	Seismic Design Not Required for Table 4.1.1.18, Items 6 to 21	4.1.2.13), 4.1.2.17. & 4.1.8.18(1)
3.18 OCCUPANT LOAD:	FLOOR LEVEL/AREA	OCCUPANCY TYPE	BASED ON
	Ground Floor	Design of space	5
	TOTAL		5
3.19 BARRIER-FREE DESIGN:	No	Building is not intended to be occupied on a daily or full time basis	3.3.1.2. & 3.3.1.19.
3.20 HAZARDOUS SUBSTANCES:	No		3.3.1.2. & 3.3.1.19.
3.21 REQUIRED FIRE RESISTANCE RATINGS:	HORIZONTAL ASSEMBLY	RATING (H)	SUPPORTING ASSEMBLY (H)
	FLOORS OVER BSMT	N/A	N/A
	FLOORS	N/A	N/A
	MEZZANINE	N/A	N/A
	ROOF	N/A	N/A
3.22 SPATIAL SEPARATION - Material Storage Building:	WALL	SBP AREA (L, D) (m²)	U _H OR U _V
	North Wall	228.7	43.00
	South Wall	146.6	95.91
	East Wall	424.5	34.50
	West Wall	262.8	121.65
	ROOF		
3.24 ENERGY EFFICIENCY:	NONRESIDENTIAL COMPLIANCE OPTION:	SB-10 Performance (Div. 5)	12.2.1.2.
	PROJECT DESIGN CONDITIONS:		
	CLIMATIC ZONE:	Zone 1 (± 5000 Degree Days)	
	BUILDING ENVELOPE REQUIREMENTS:	ASSEMBLY	INSULATION
	WALLS, ABOVE GRADE:	N/A	N/A
	ROOF (without attic space):	N/A	N/A
	ROOF (with attic space):	N/A	N/A
	SLAB-ON-GRADE FLOOR (heated):	N/A	N/A
	SLAB-ON-GRADE FLOOR (unheated):	N/A	N/A
	SPACE HEATING FUEL:		
	HEATING EQUIPMENT EFFICIENCY:		
	OTHER CONDITIONS:		
3.25 NOTES:	Exempt from SB-10 Energy Efficiency Requirements under item 1.2.1.1.(1)(c) Travel distance to at least one exit shall be not more than 30m as per OBC reference 3.4.2.5.(f) Maximum flame spread rating of 150 for all interior wall/ceilings.		

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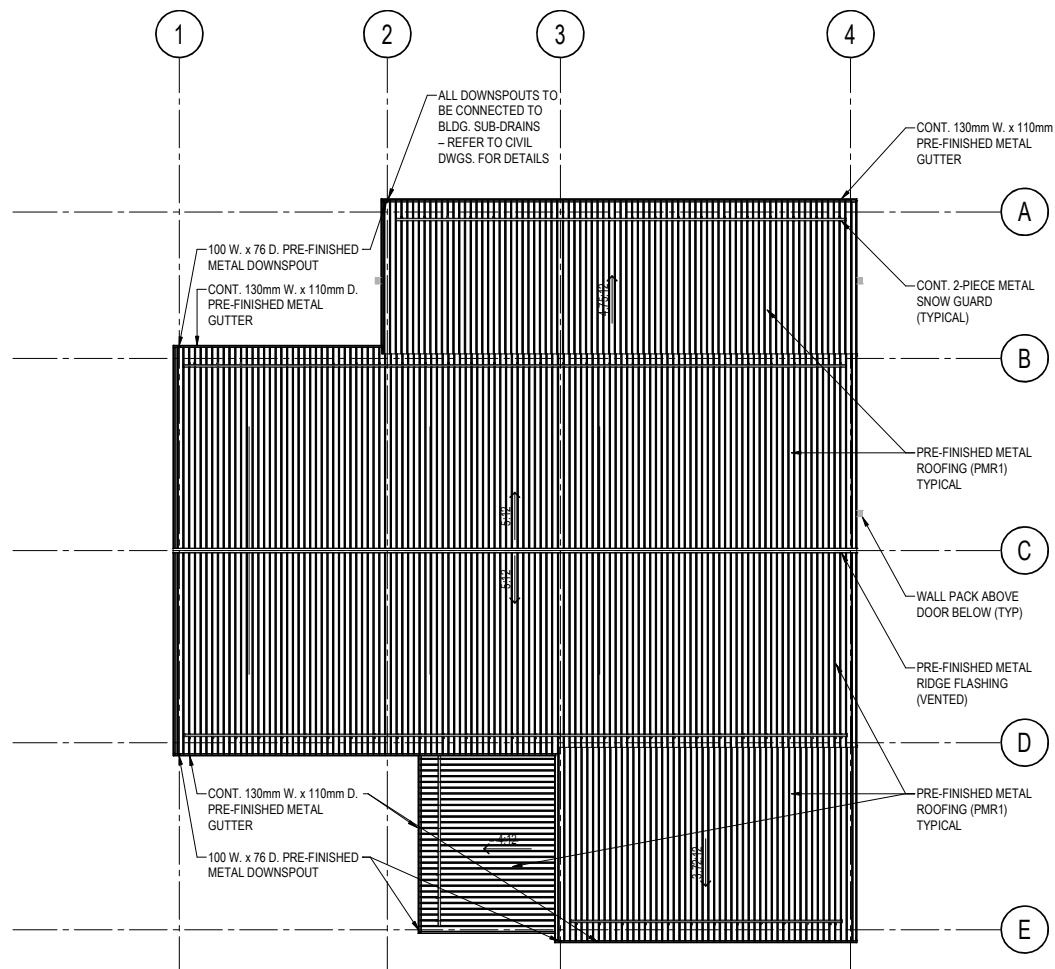
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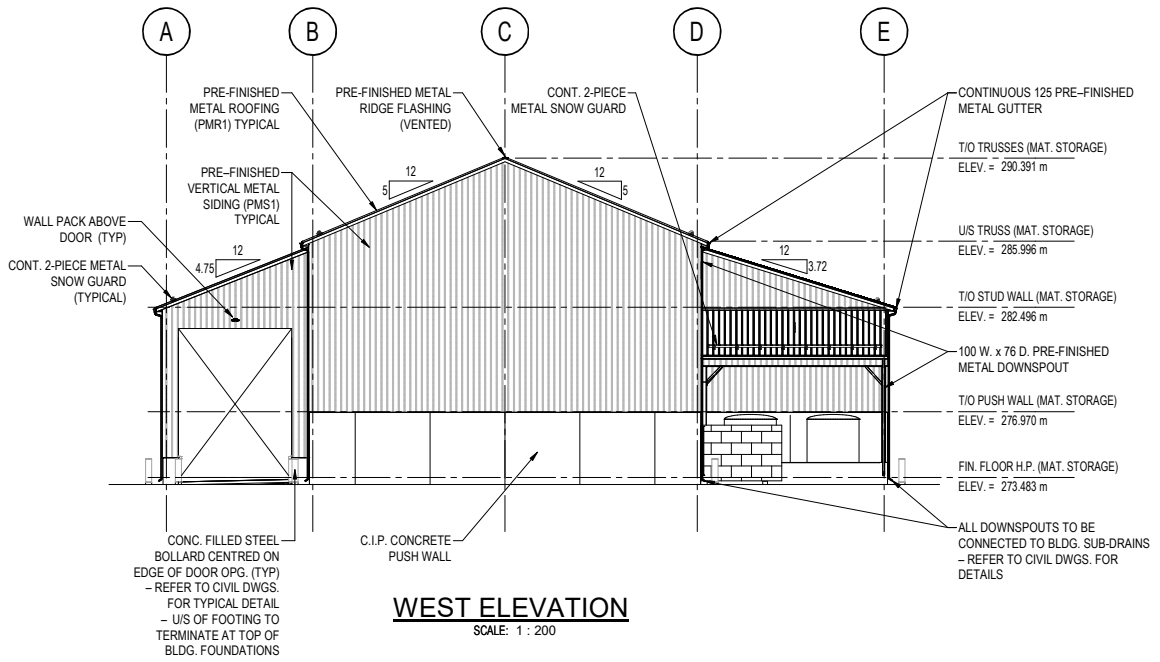
FENELON FALLS MPY
MATERIAL STORAGE BUILDING - ROOF
PLAN AND EXTERIOR ELEVATIONS

73

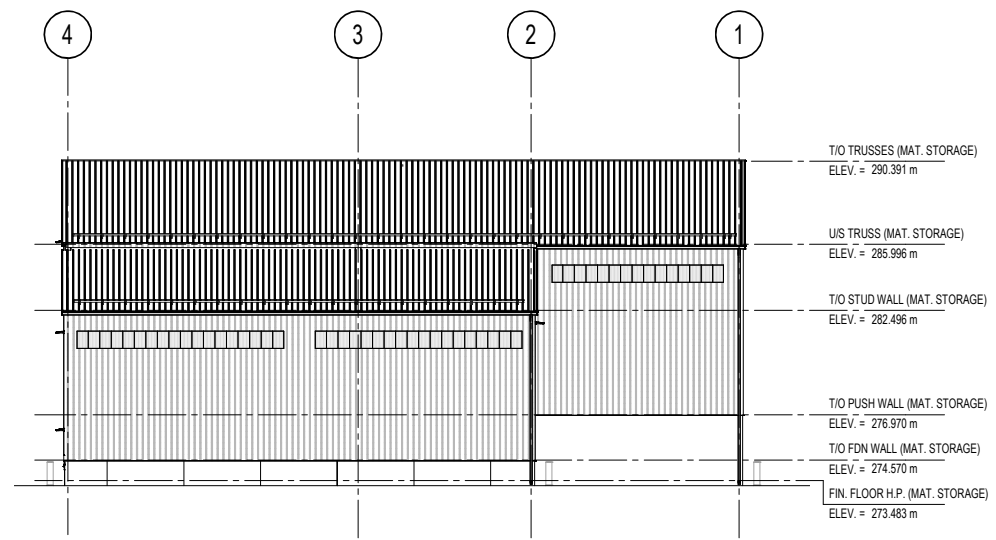
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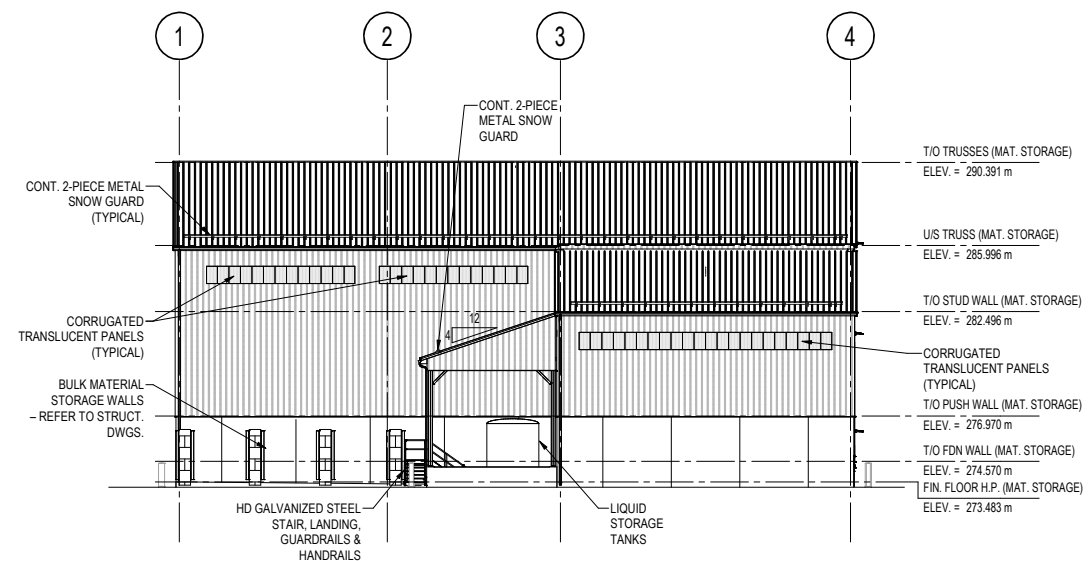
ROOF PLAN
SCALE: 1 : 200



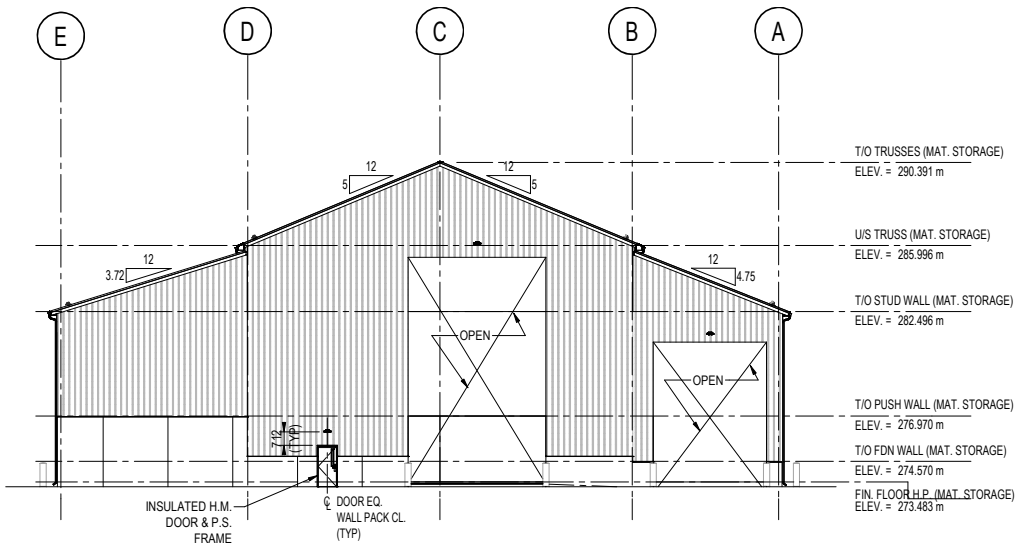
WEST ELEVATION
SCALE: 1 : 200



NORTH ELEVATION
SCALE: 1 : 200



SOUTH ELEVATION
SCALE: 1 : 200

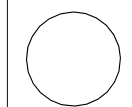


EAST ELEVATION
SCALE: 1 : 200

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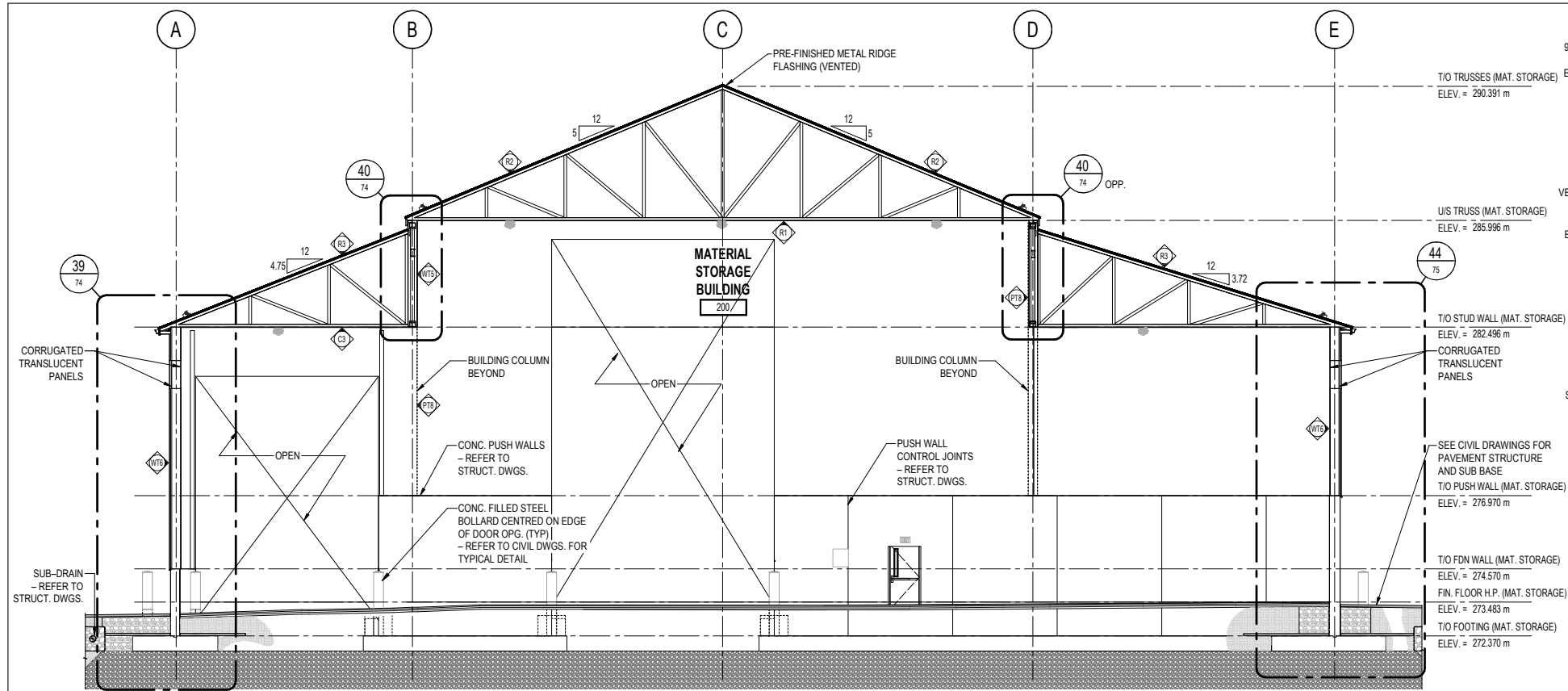
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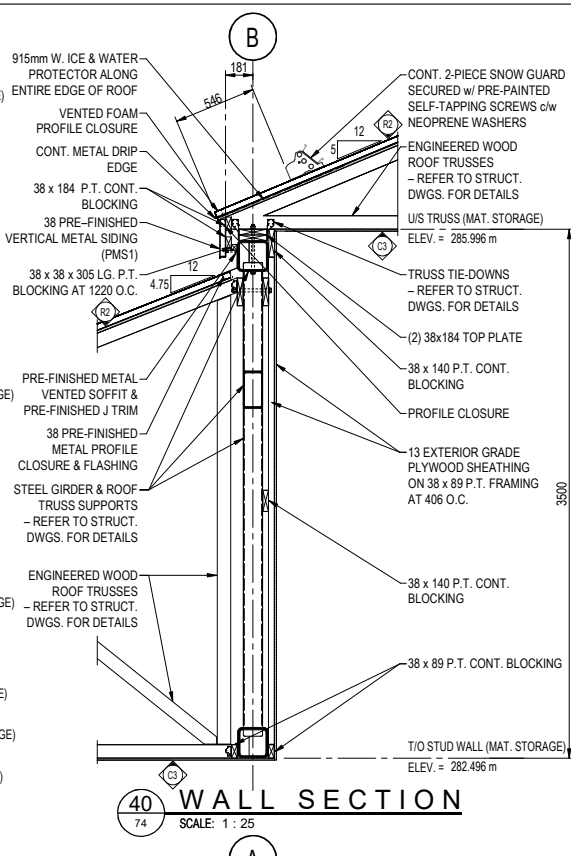
FENELON FALLS MPY
MATERIAL STORAGE BUILDING -
CROSS-SECTIONS AND WALL SECTIONS

74

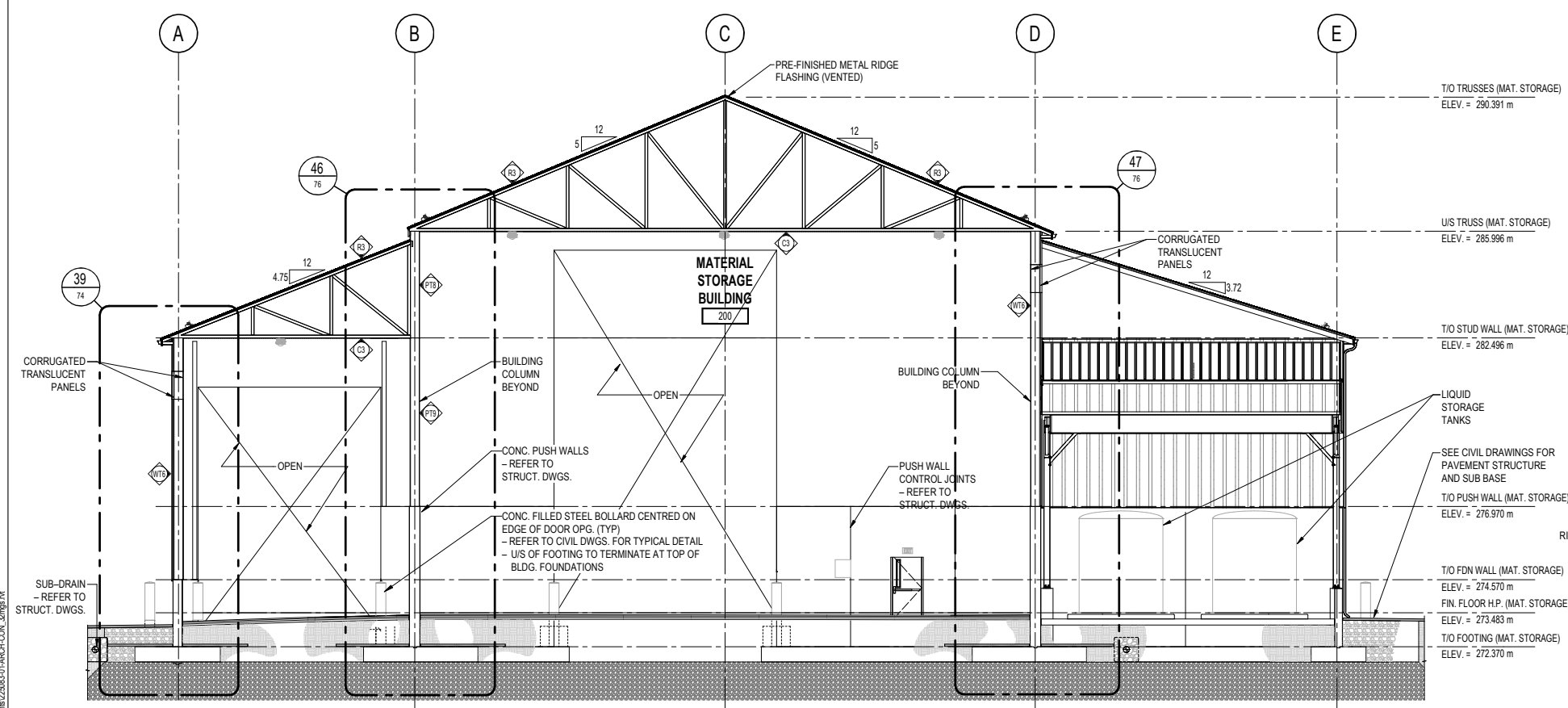
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130 Dufferin Avenue, London, Ontario, N6A 5R2
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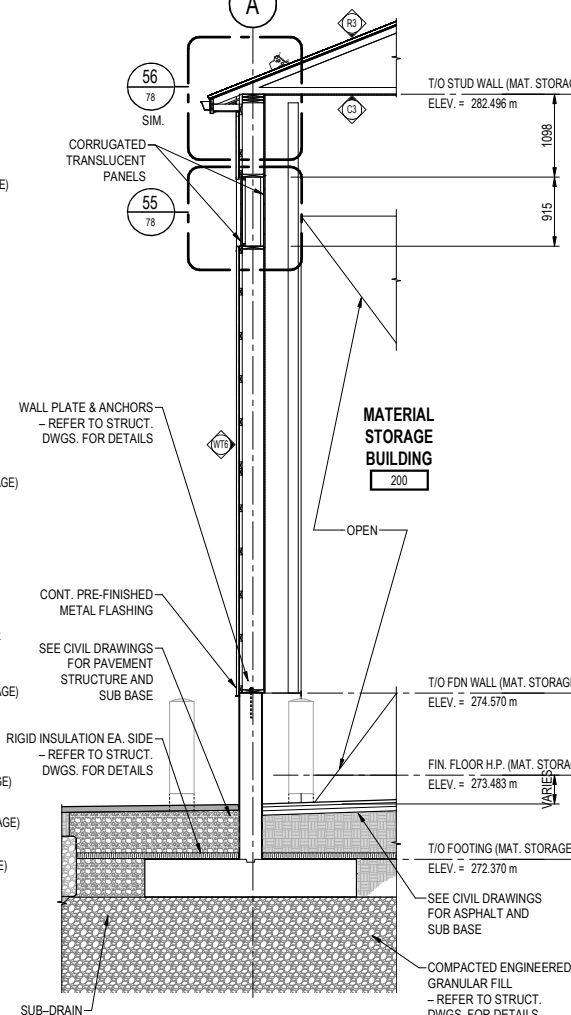
37 CROSS - SECTION
SCALE: 1 : 100



40 WALL SECTION
SCALE: 1 : 25



38 CROSS - SECTION
SCALE: 1 : 100



39 WALL SECTION
SCALE: 1 : 50
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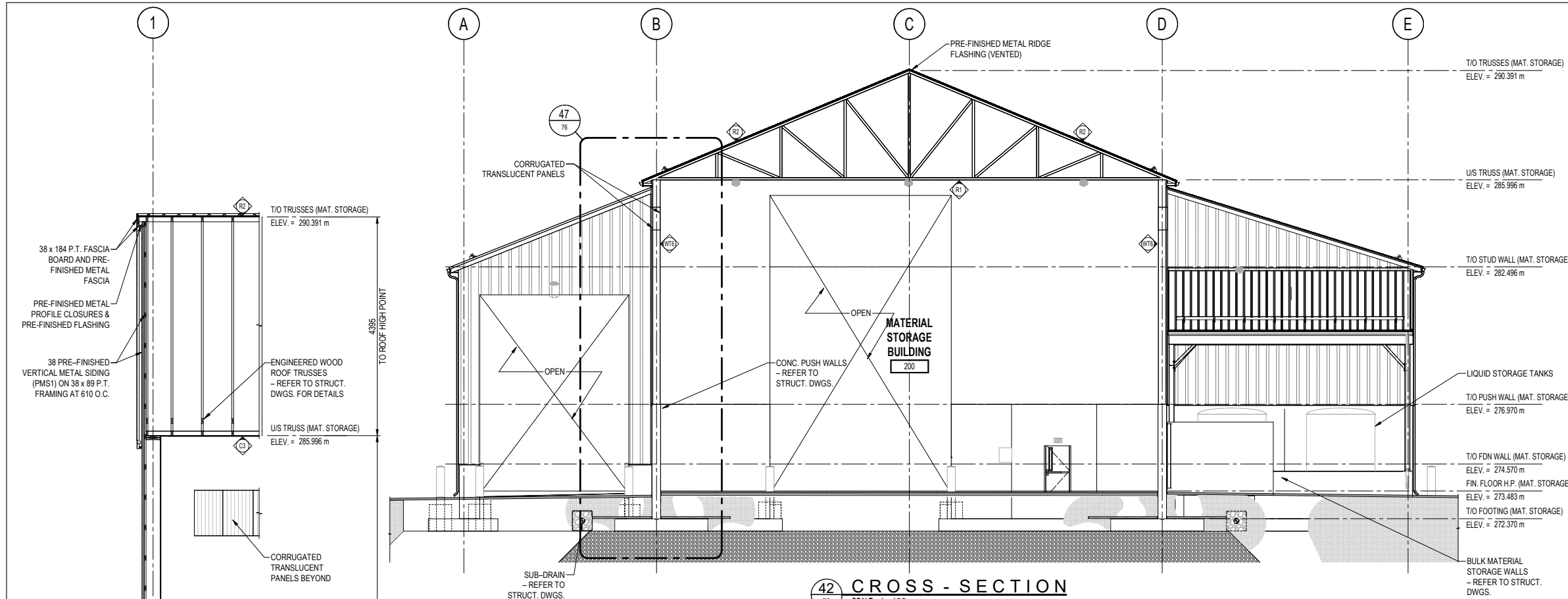
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FENELON FALLS MPY
MATERIAL STORAGE BUILDING -
CROSS-SECTIONS AND WALL SECTIONS

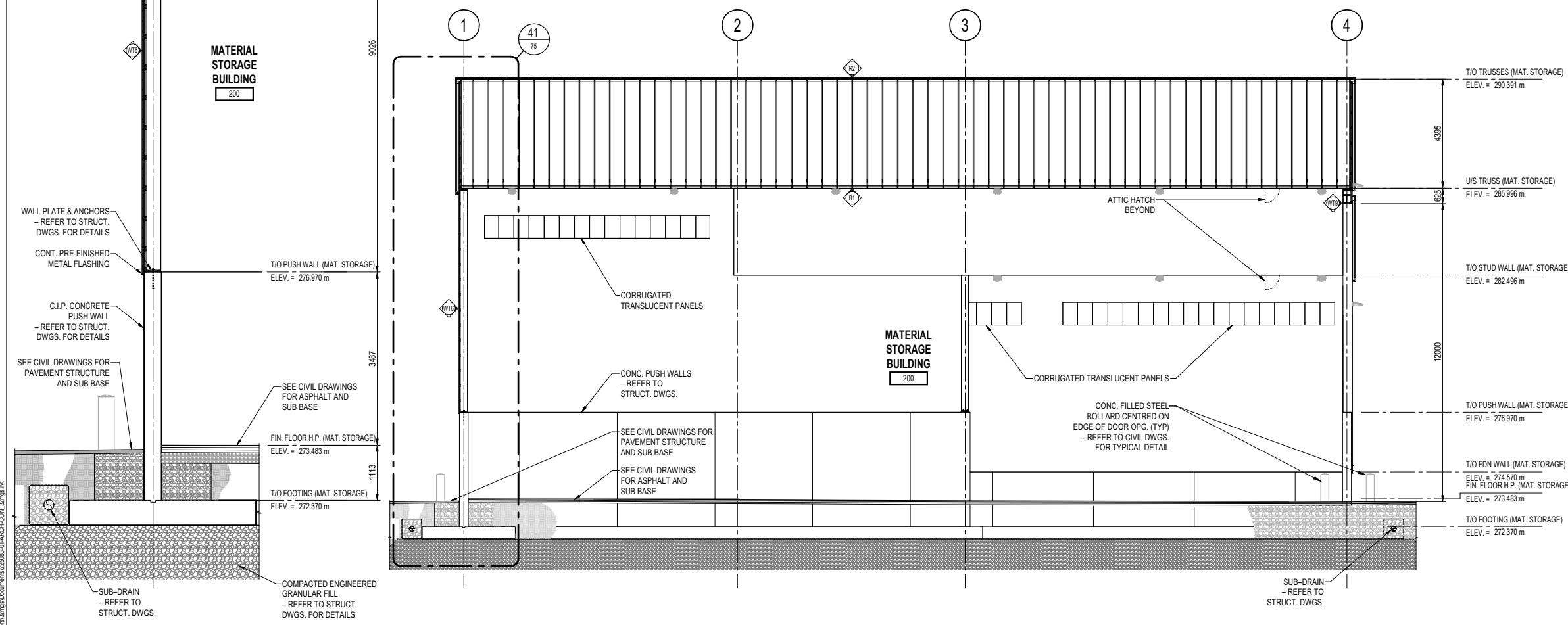
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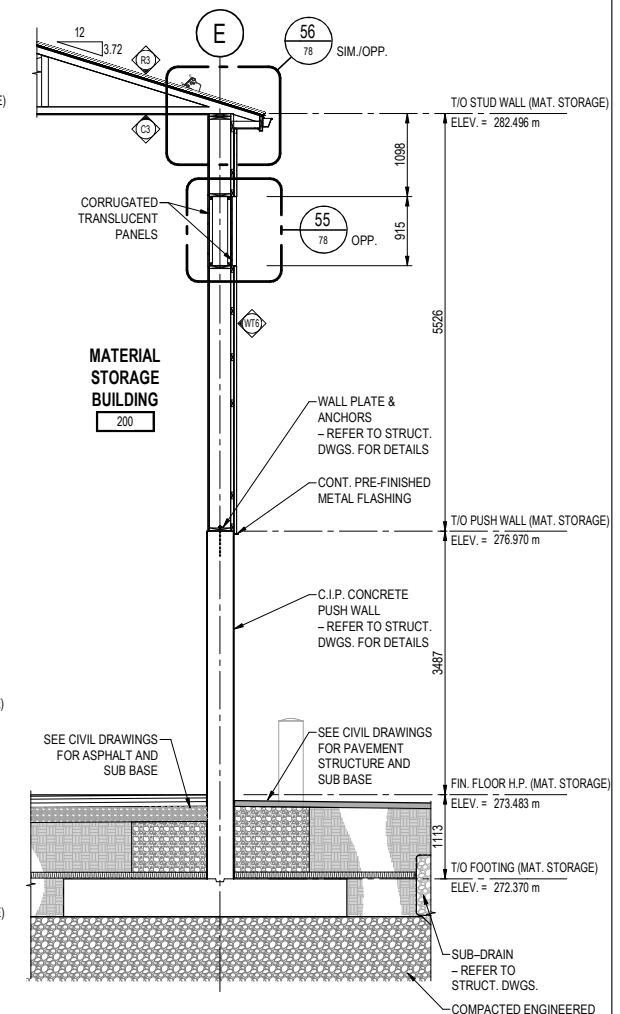
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42 CROSS - SECTION
SCALE: 1 : 100



43 CROSS - SECTION
SCALE: 1 : 100



44 WALL SECTION
SCALE: 1 : 50

41 WALL SECTION
SCALE: 1 : 50

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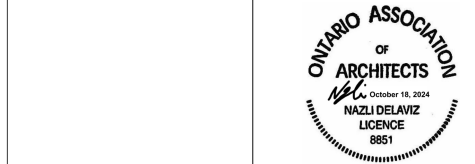
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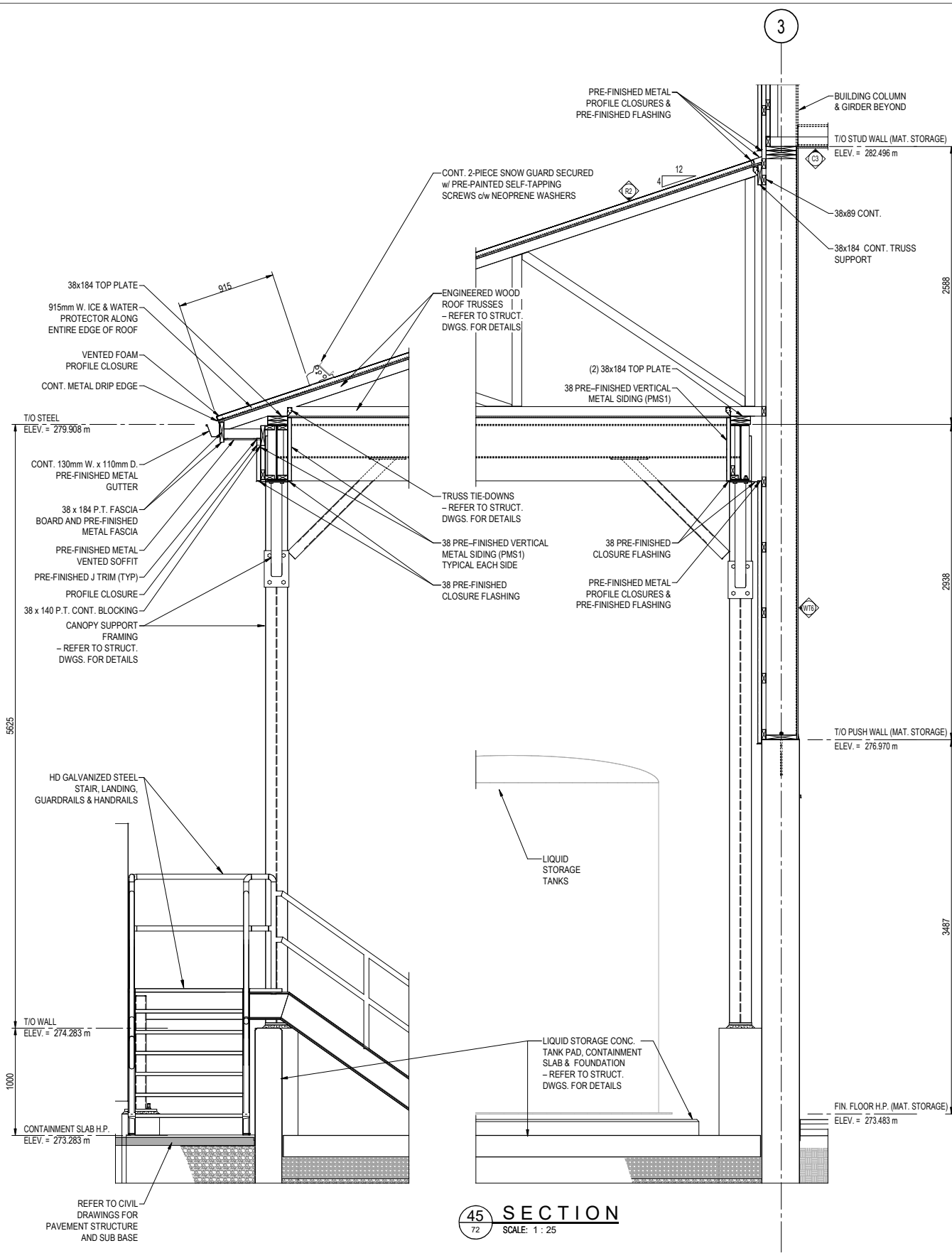
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FENELON FALLS MPY
MATERIAL STORAGE BUILDING - WALL
SECTIONS

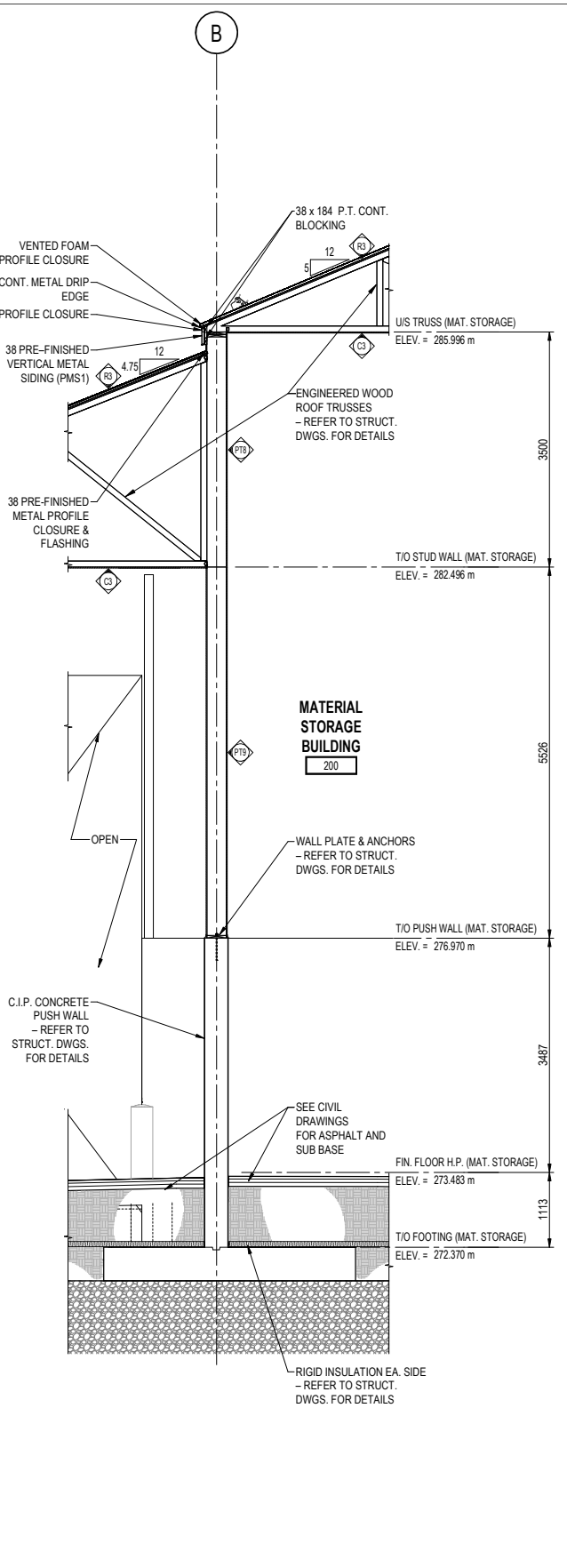
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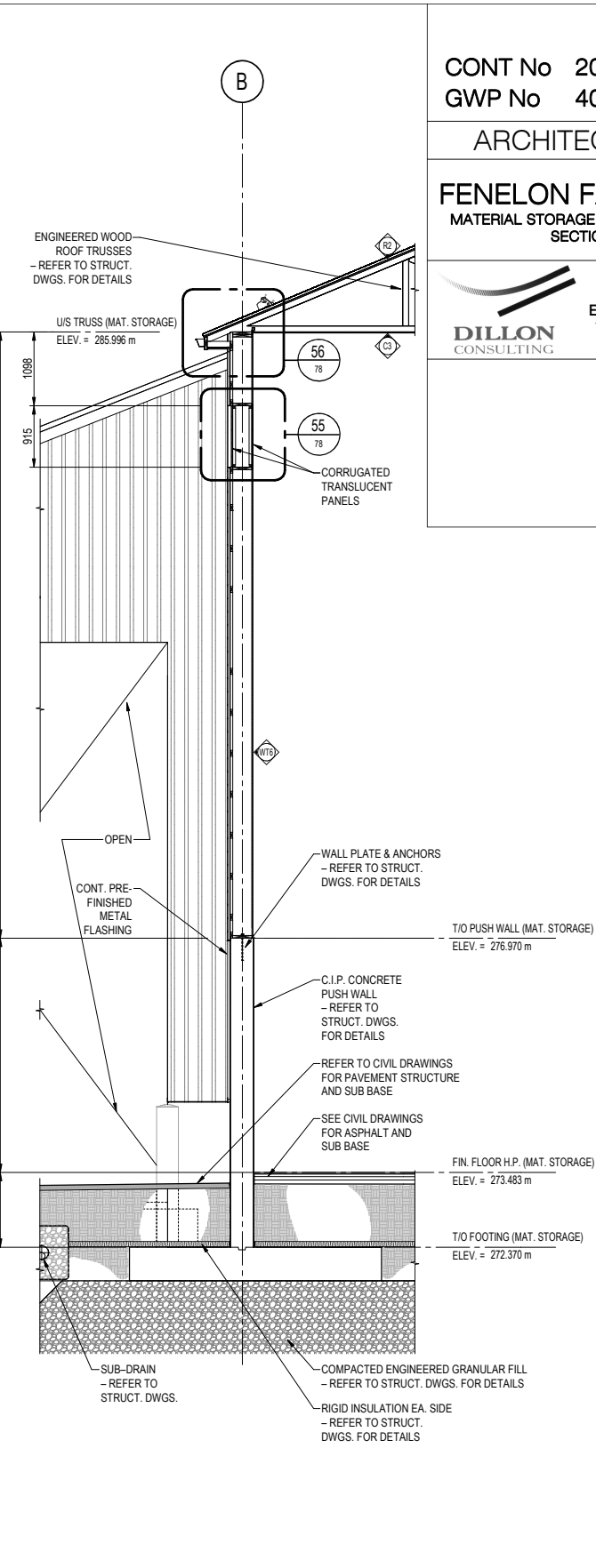
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45 SECTION
SCALE: 1 : 25



46 WALL SECTION
SCALE: 1 : 50



47 WALL SECTION
SCALE: 1 : 50

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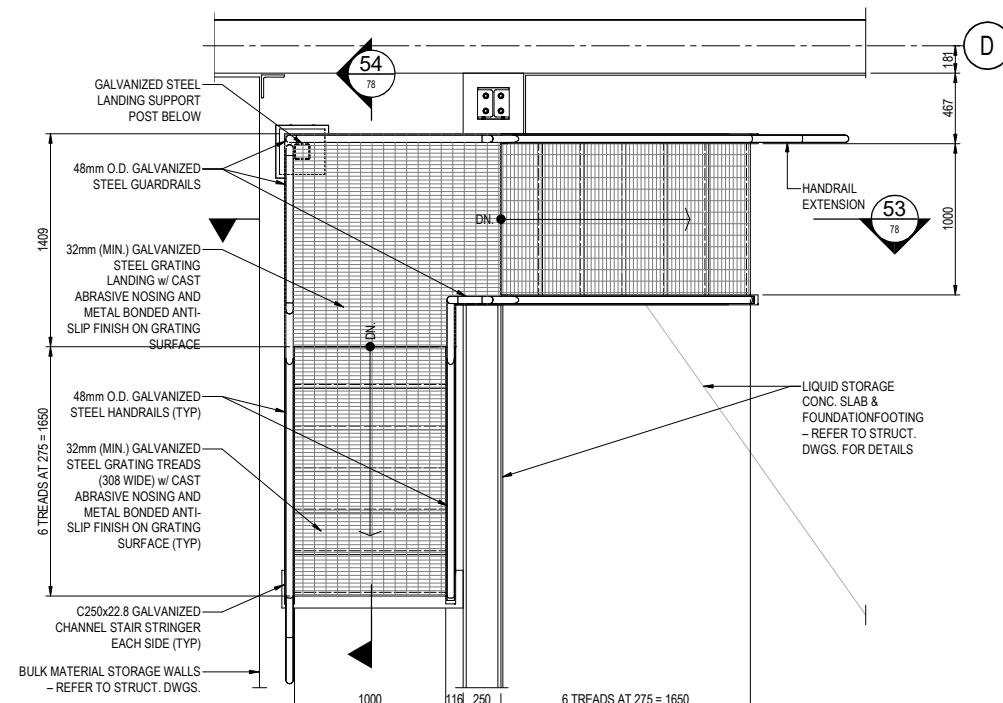
ARCHITECTURAL

FENELON FALLS MPY
MATERIAL STORAGE BUILDING - PLAN
DETAILS

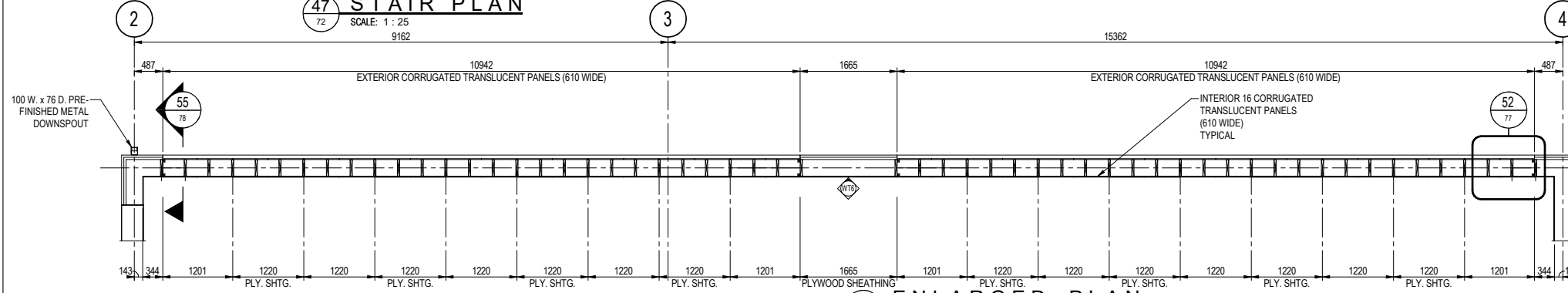
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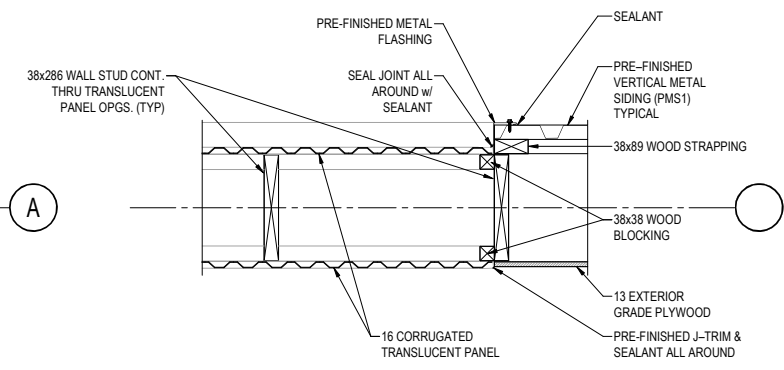
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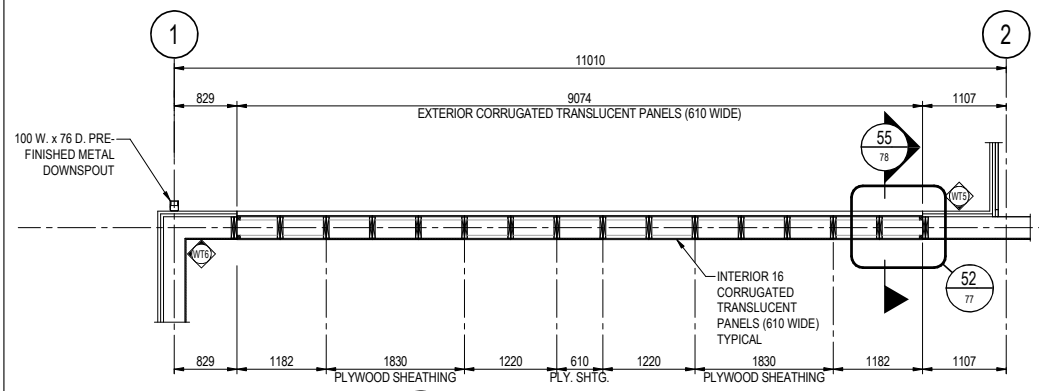
47 STAIR PLAN
SCALE: 1 : 25



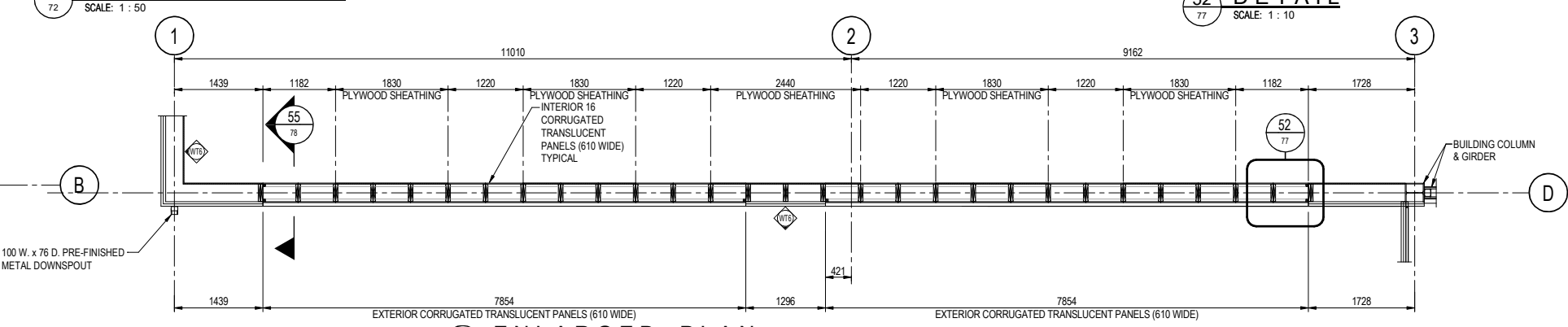
48 ENLARGED PLAN
SCALE: 1 : 50



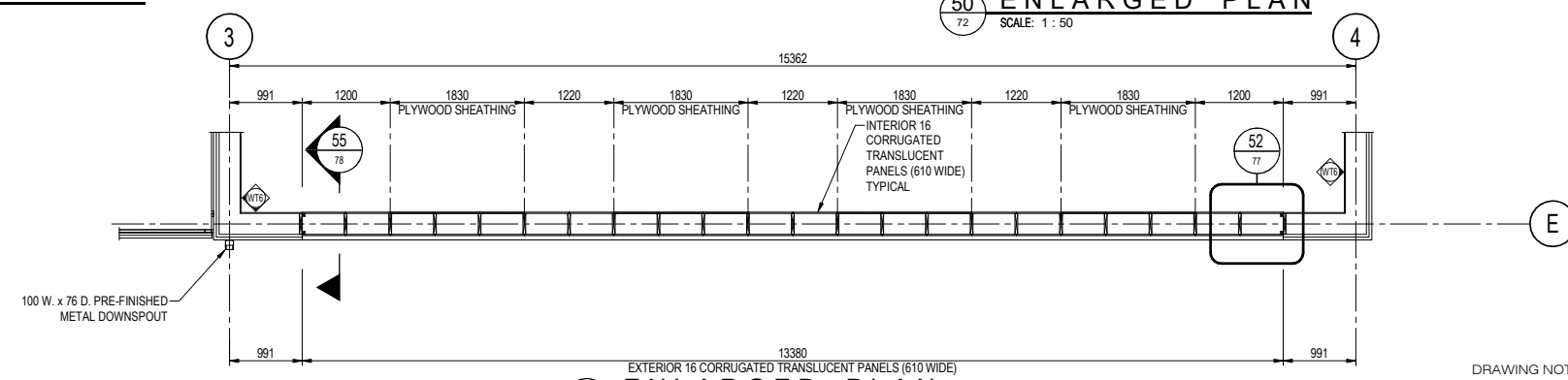
52 DETAIL
SCALE: 1 : 10



49 ENLARGED PLAN
SCALE: 1 : 50



50 ENLARGED PLAN
SCALE: 1 : 50



51 ENLARGED PLAN
SCALE: 1 : 50

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100 mm ON ORIGINAL DRAWING

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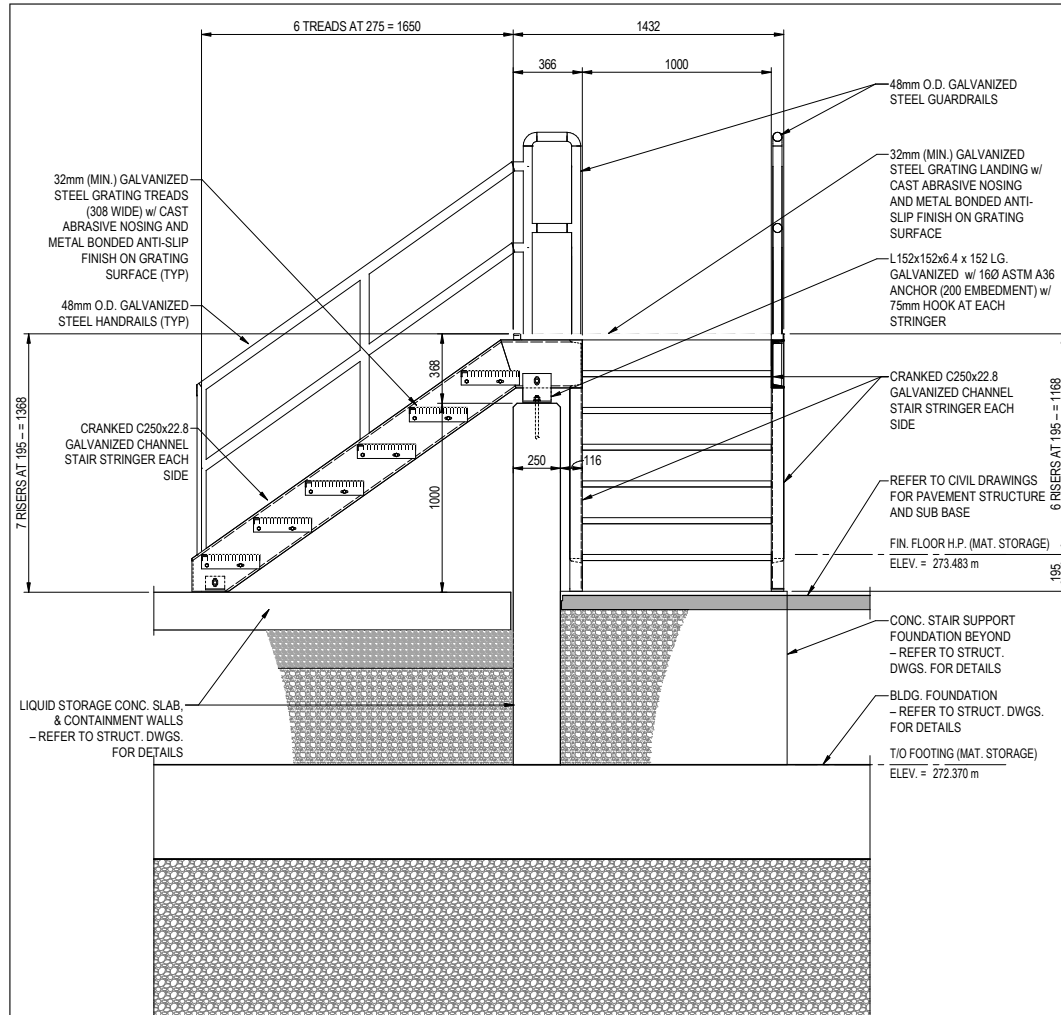
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FENELON FALLS MPY
MATERIAL STORAGE BUILDING - SECTION DETAILS

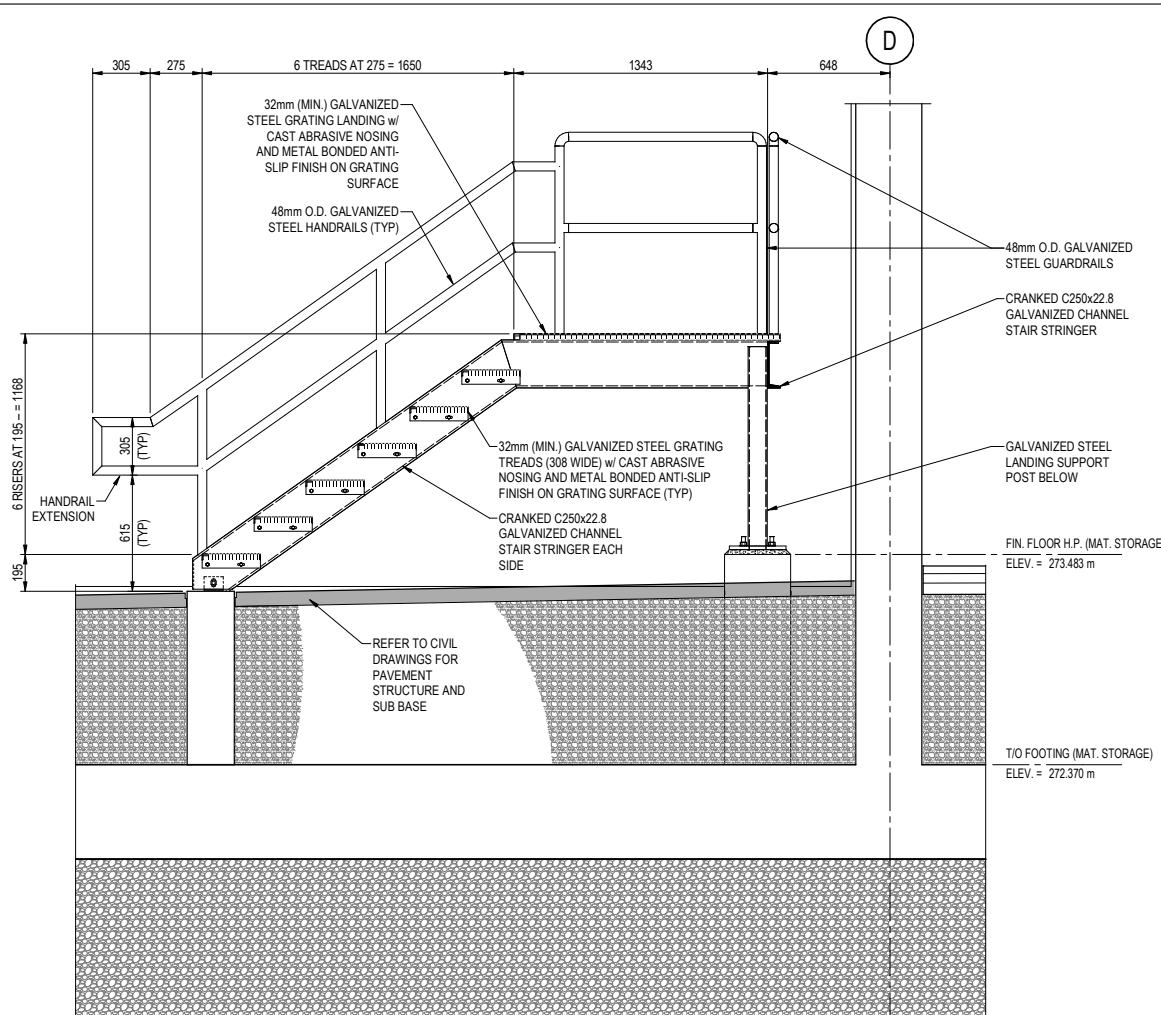
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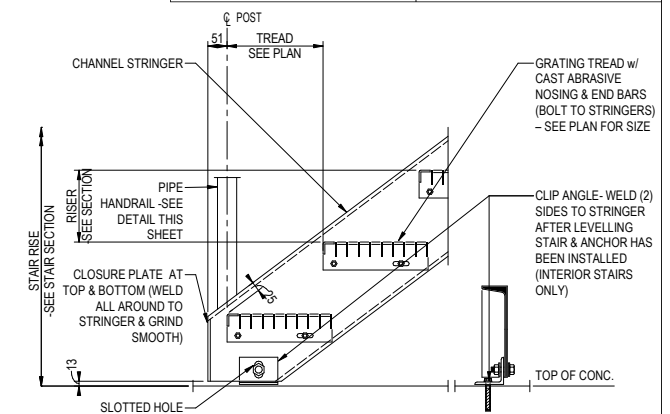
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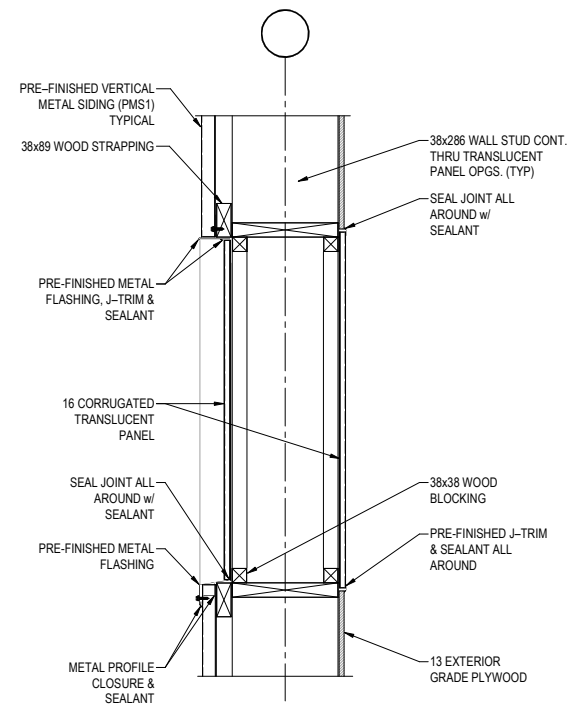
53 SECTION
77 SCALE: 1:20



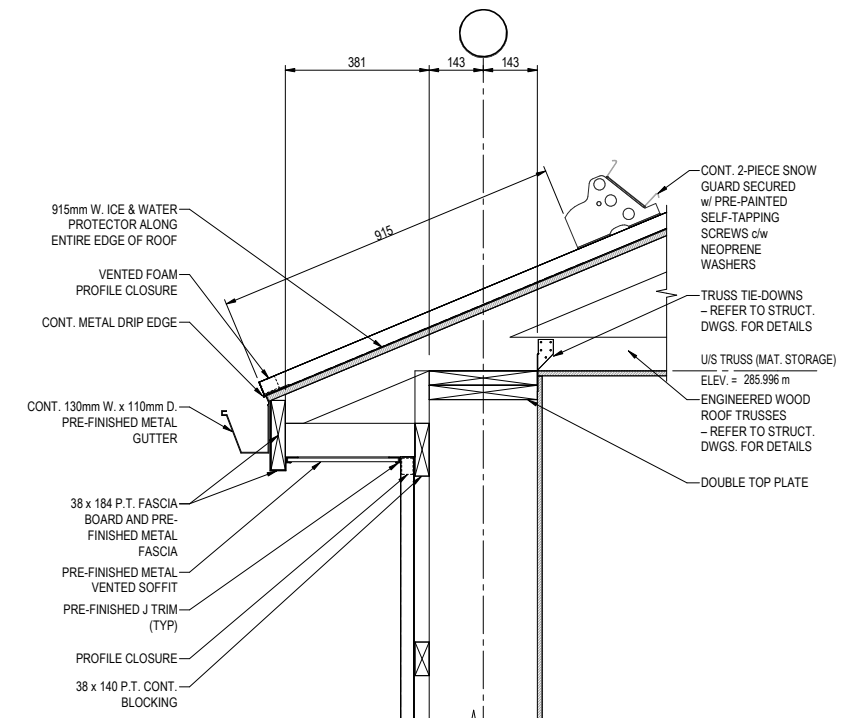
54 SECTION
77 SCALE: 1:20



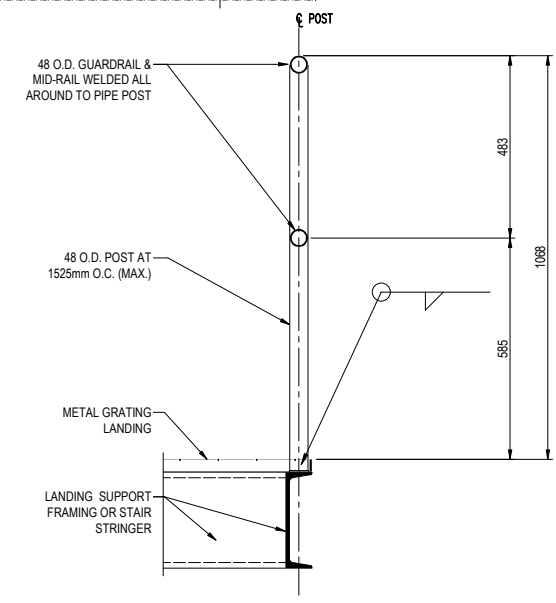
DETAIL - TYPICAL STAIR BOTTOM



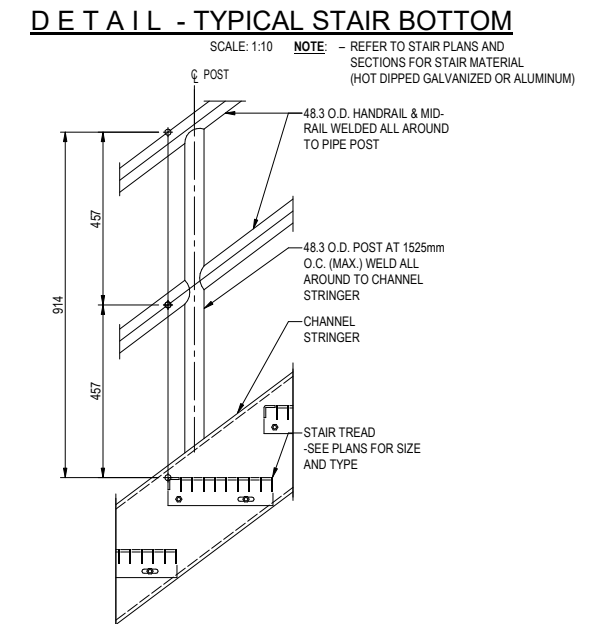
55 SECTION
74 SCALE: 1:10



56 DETAIL
74 SCALE: 1:10



DETAIL - TYPICAL GUARDRAILS



DETAIL - TYPICAL STAIR HANDRAIL

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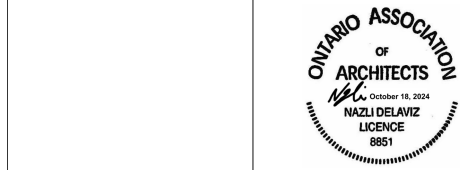
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GWP No 4044-22-00

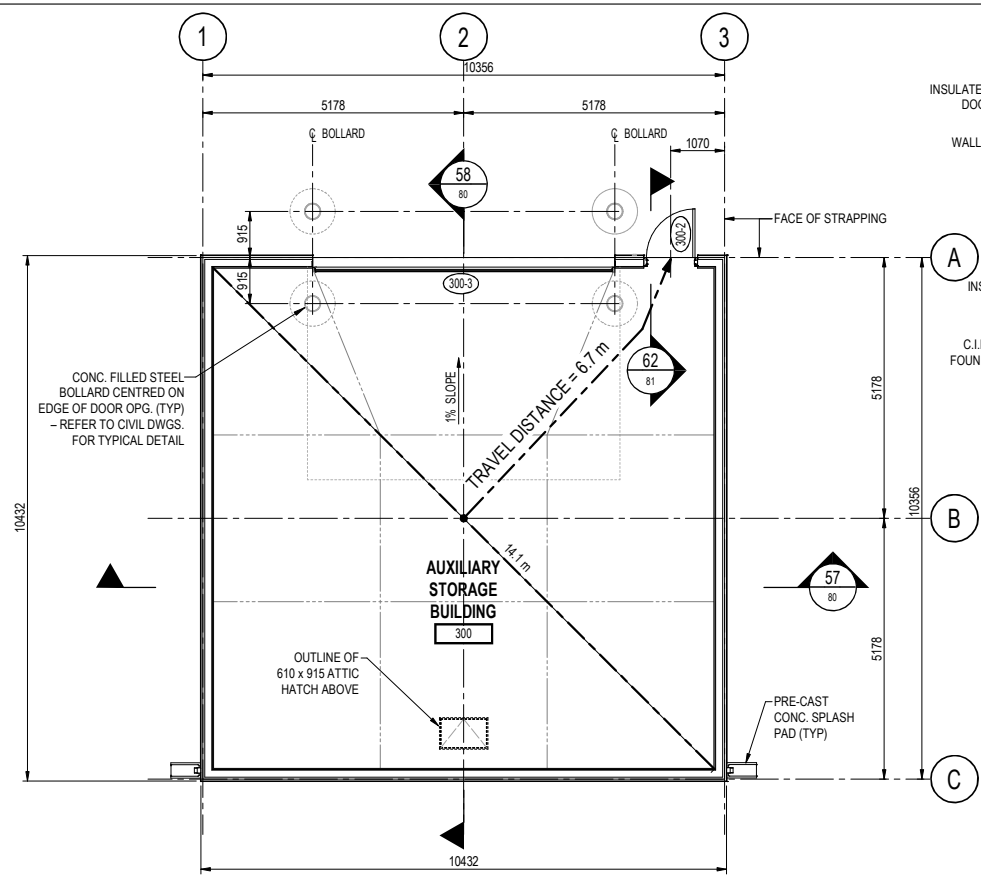
ARCHITECTURAL

FENELON FALLS MPY
AUXILIARY STORAGE BUILDING - FLOOR
PLAN, ROOF PLAN AND ELEVATIONS

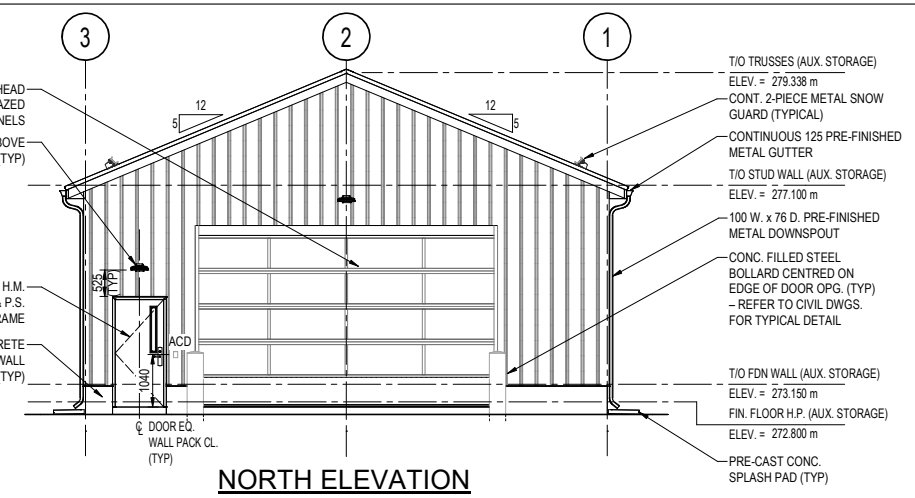
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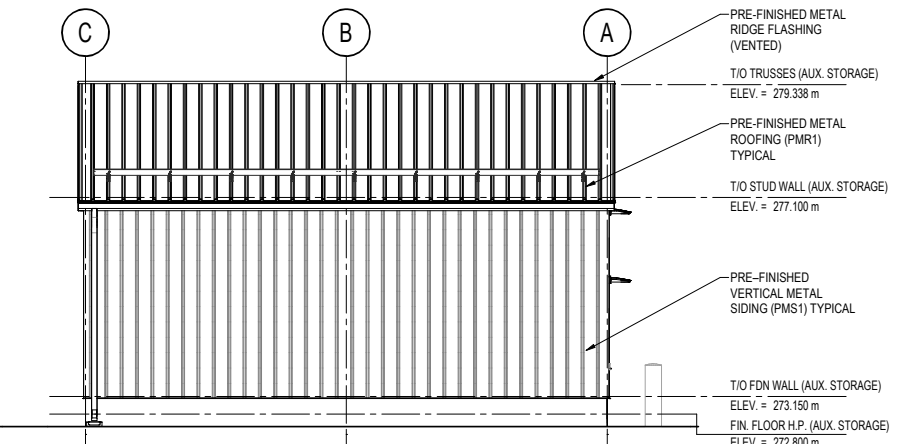
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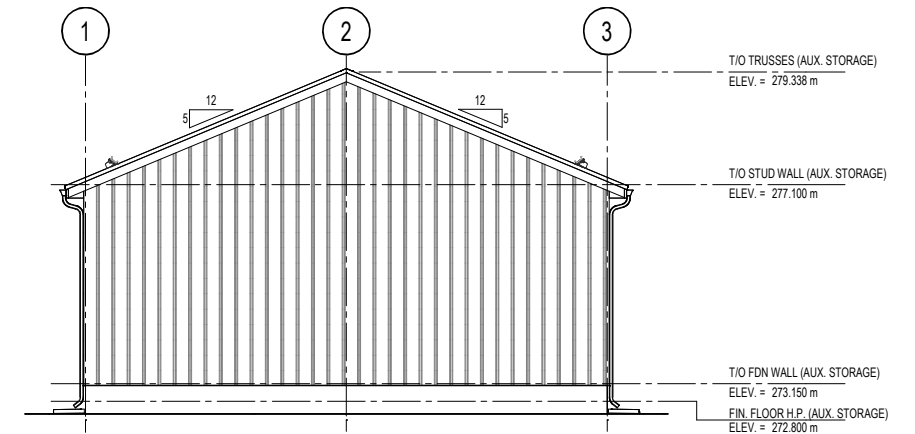
FLOOR PLAN
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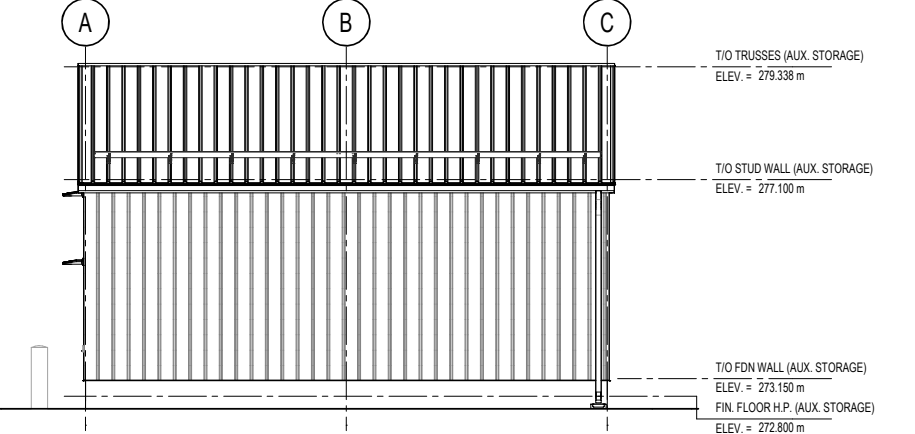
NORTH ELEVATION
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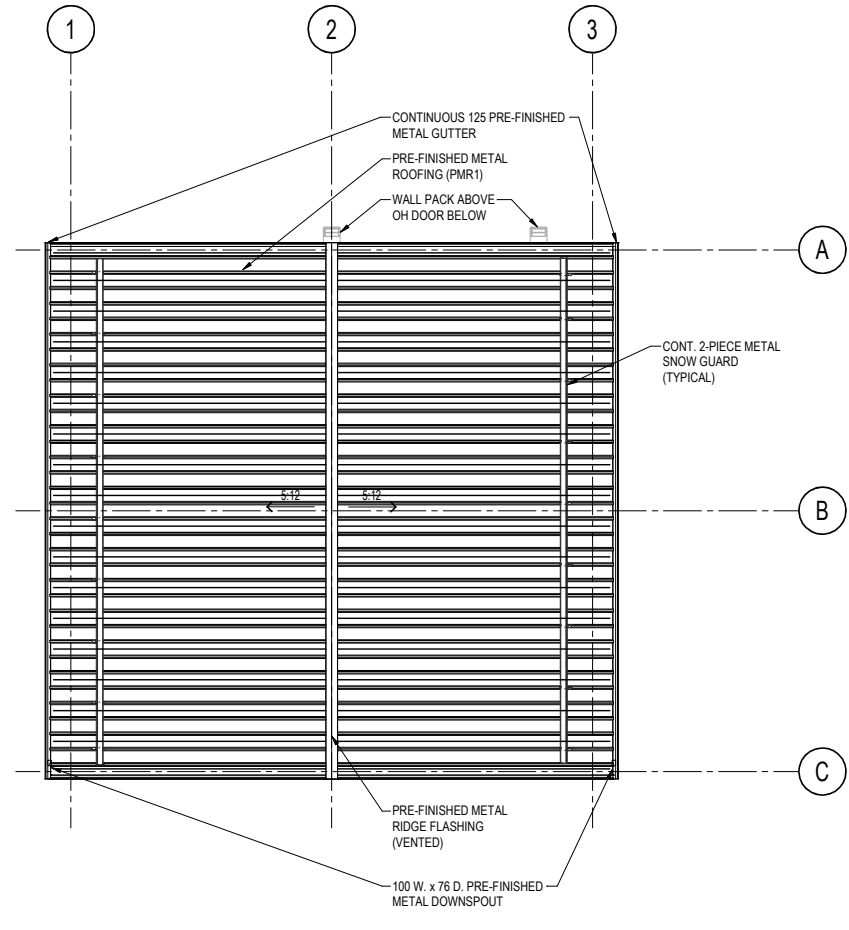
EAST ELEVATION
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SOUTH ELEVATION
SCALE: 1 : 75



WEST ELEVATION
SCALE: 1 : 75



ROOF PLAN
SCALE: 1 : 75

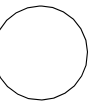
ONTARIO BUILDING CODE DATA MATRIX		PART 9 - HOUSING AND SMALL BUILDINGS	
Name of Practice Dillon Building Design Ltd., Engineers and Architects, Certificate of Practice Number 2145		GBC REFERENCE 1.1	
Address 1 130 Dufferin Avenue, Suite 1400			
Address 2 London, Ontario, N6A 9R2 Tel: 519-438-1288 Fax: 519-472-8209			
Contact			
Name of Project Fenelon Falls Maintenance Plant Yard (MPY)			
Location/Address South East Quadrant of Gosport Road and County Lane			
Date		Seal & Signature	
9.00 BUILDING CODE VERSION	O.Reg. 330/12	LAST AMENDMENT	O.Reg. 89/23
9.01 PROJECT TYPE	New Construction		(A) 1.1.2
9.02 OCCUPANCY CLASSIFICATION	OCCUPANCY	USE	9.10.2
	F3 Low Hazard Industrial	Auxiliary Storage Building	
9.03 SUPERIMPOSED MAJOR OCCUPANCIES	NO		9.10.2.3
9.04 BUILDING AREA (m ²)	DESCRIPTION	EXISTING	NEW
	New Building	N/A	109.5
	TOTAL		109.5
9.05 GROSS AREA (m ²)	DESCRIPTION	EXISTING	NEW
	New Building	N/A	109.5
	TOTAL		109.5
9.06 MEZZANINE AREA (m ²)	DESCRIPTION	EXISTING	NEW
	na	N/A	N/A
	TOTAL		
9.07 BUILDING HEIGHT	1 STOREYS ABOVE GRADE	4.30	(m) ABOVE GRADE (A) 1.1.2 & 9.10.4
	0 STOREYS BELOW GRADE		
9.08 NUMBER OF STREETS FIRE FIGHTER ACCESS	1 STREET(S)		9.10.20
9.09 SPRINKLER SYSTEM	Not Required		9.10.8.2-4
9.10 FIRE ALARM SYSTEM	Not Required		9.10.16
9.11 POST-OCCUPANT BUILDING	NO	HEAVY TIMBER CONSTRUCTION	N/A
	ACTUAL		(A) 1.1.2.3 (D)
9.14 OCCUPANT LOAD	FLOOR LEVEL/AREA	OCCUPANCY TYPE	BASED ON
	Ground Floor		Design of space
	TOTAL		1.0
			PERSONS
			1
9.15 BARRIER-FREE DESIGN	No	Building is not intended to be occupied on a daily or full time basis	9.5.2
9.16 HAZARDOUS SUBSTANCES	No		9.10.1.3
9.17 REQUIRED FIRE RESISTANCE RATINGS	HORIZONTAL ASSEMBLY	FIRE RESISTANCE RATING (h)	SUPPORTING ASSEMBLY (h)
	FLOORS EXCEPT CRAWLSPACE	N/A	N/A
	MEZZANINE	N/A	N/A
	ROOF	N/A	N/A
9.18 SPATIAL SEPARATION	WALL	SEPARATION AREA (m ²)	PERMITTED CONSTRUCTION TYPE
	North Wall	46.9 100.48 2.3.1	Combustible Permitted
	South Wall	46.9 58.22 2.3.1	Combustible Permitted
	East Wall	46.9 114.21 2.3.1	Combustible Permitted
	West Wall	46.9 182.54 2.3.1	Combustible Permitted
9.20 ENERGY EFFICIENCY	OPTIONAL COMPLIANCE OPTION	SB-10 Performance (Dn.5)	12.2.1.2
	PROJECT DESIGN CONDITIONS		
	CLIMATIC ZONE	Zone 1 (< 5000 Degree Days)	
	BUILDING ENVELOPE REQUIREMENTS	ASSEMBLY	INSULATION
	WALLS ABOVE GRADE	OCCUPANT LOAD	N/A
	ROOF (without attic space)		N/A
	ROOF (with attic space)		N/A
	SLAB-ON-GRADE FLOOR (heated)		N/A
	SLAB-ON-GRADE FLOOR (unheated)		N/A
	SPACE HEATING FUEL		N/A
	HEATING EQUIPMENT EFFICIENCY		
	OTHER CONDITIONS		
9.21 NOTES	Exempt from SB-10 Energy Efficiency Requirements under Item 1.2.1.1.(b)(3) Travel distance to at least one exit shall be not more than 30m as per CBC reference 3.4.2.3.(v)		
	ALL REFERENCES ARE TO DIVISION 9 OF THE CBC UNLESS PRECEDED BY (A) FOR DIVISION A AND (D) FOR DIVISION D		

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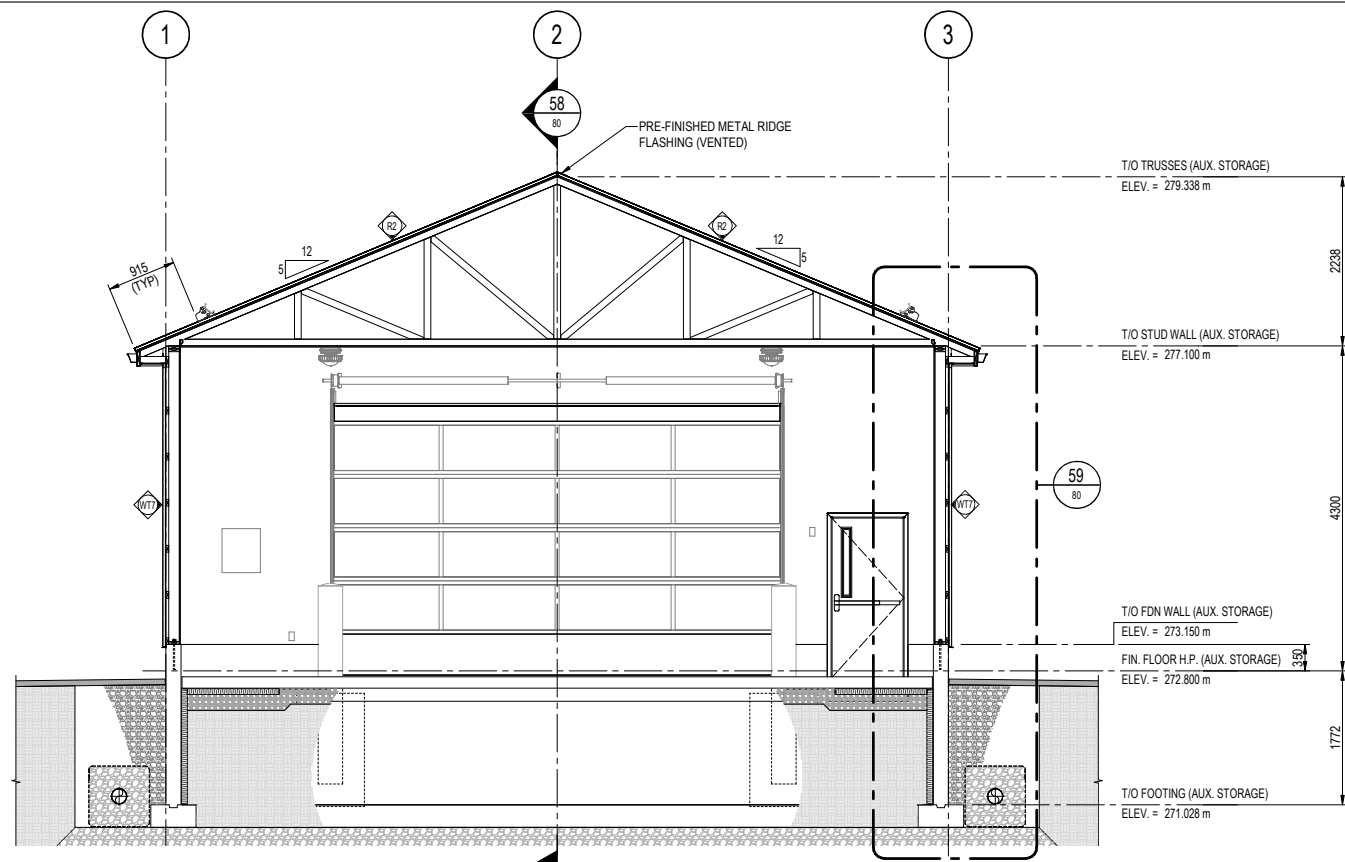
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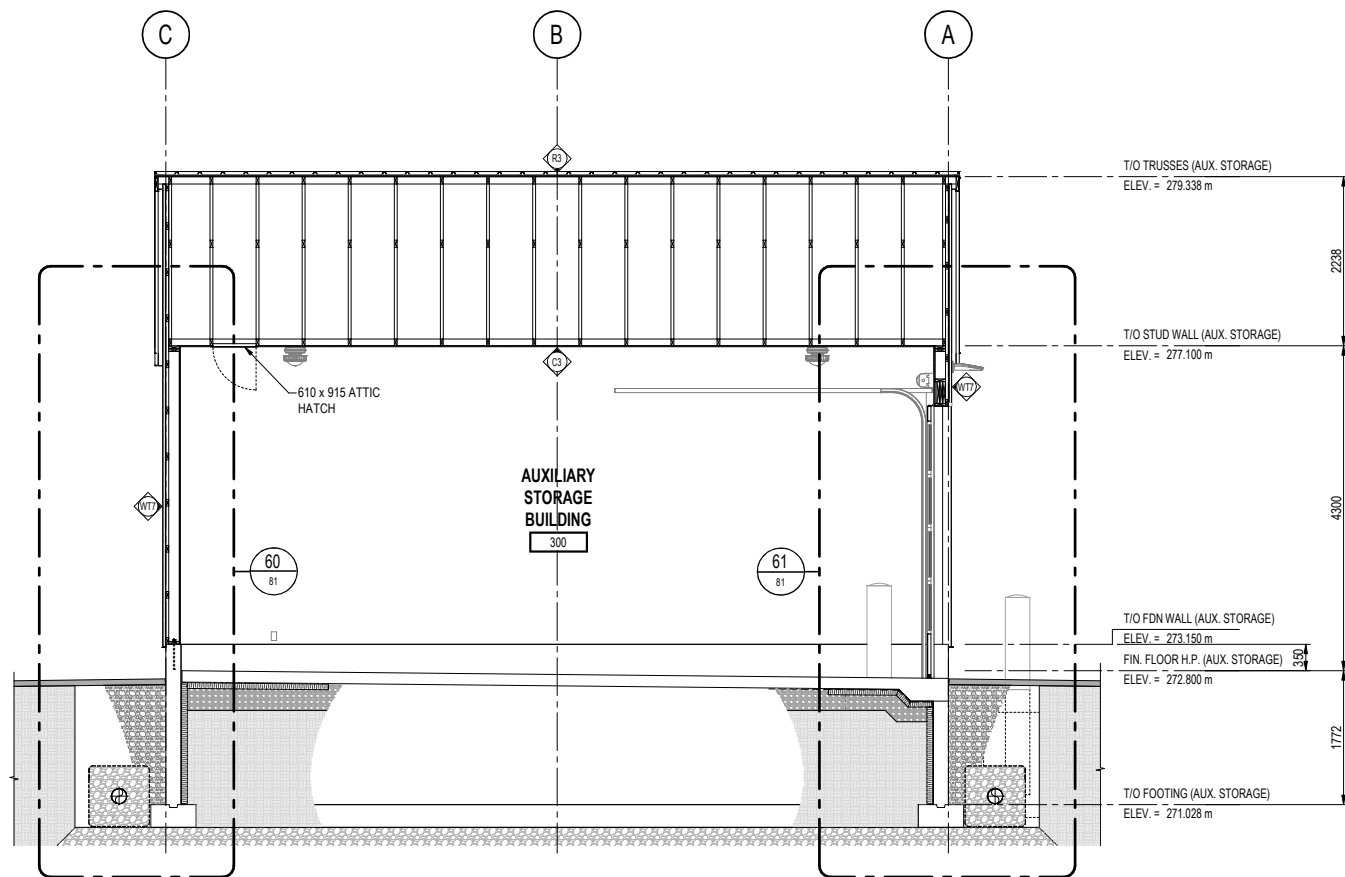
FENELON FALLS MPY
AUXILIARY STORAGE BUILDING -
CROSS-SECTION AND WALL SECTION

80

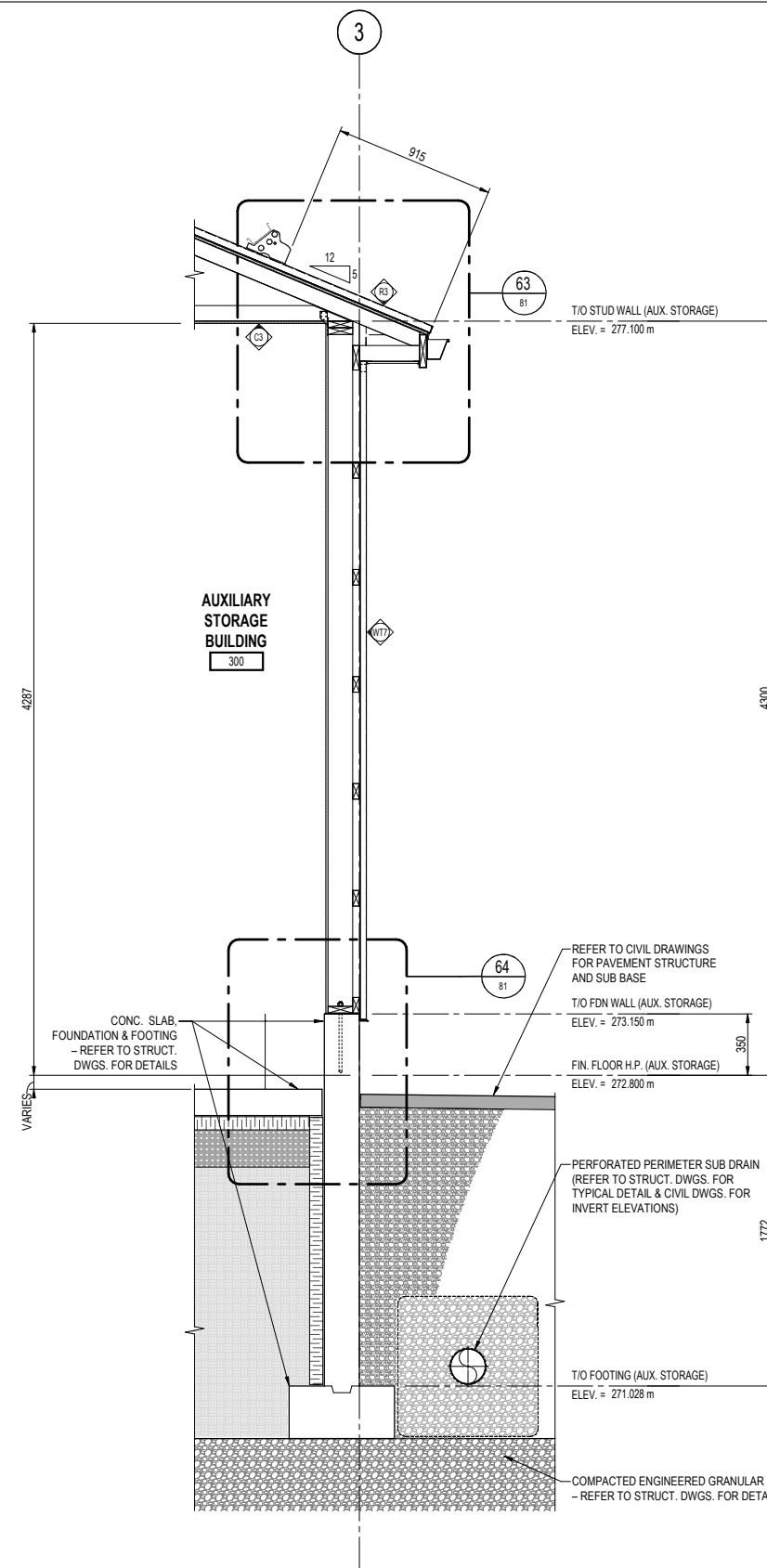
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57 CROSS - SECTION
SCALE: 1 : 50



58 CROSS - SECTION
SCALE: 1 : 50



59 WALL SECTION
SCALE: 1 : 20

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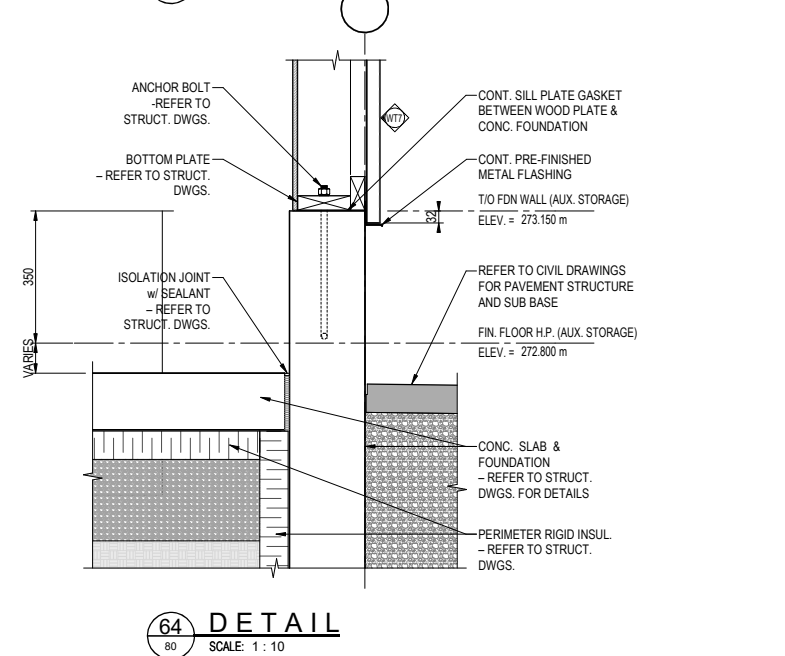
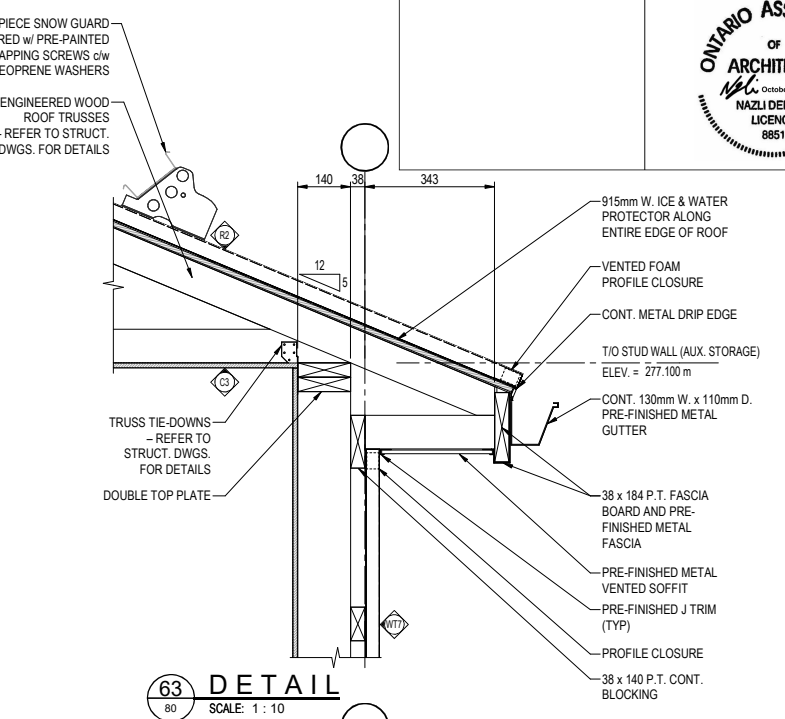
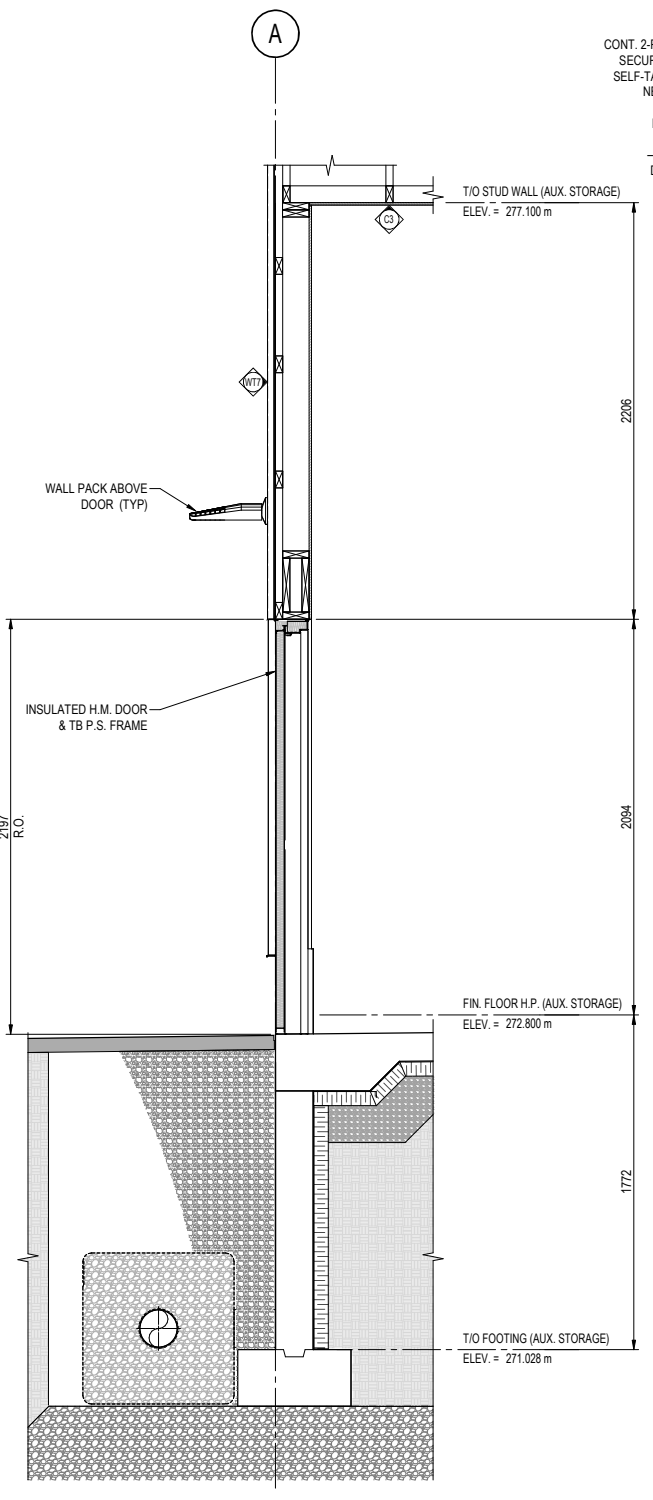
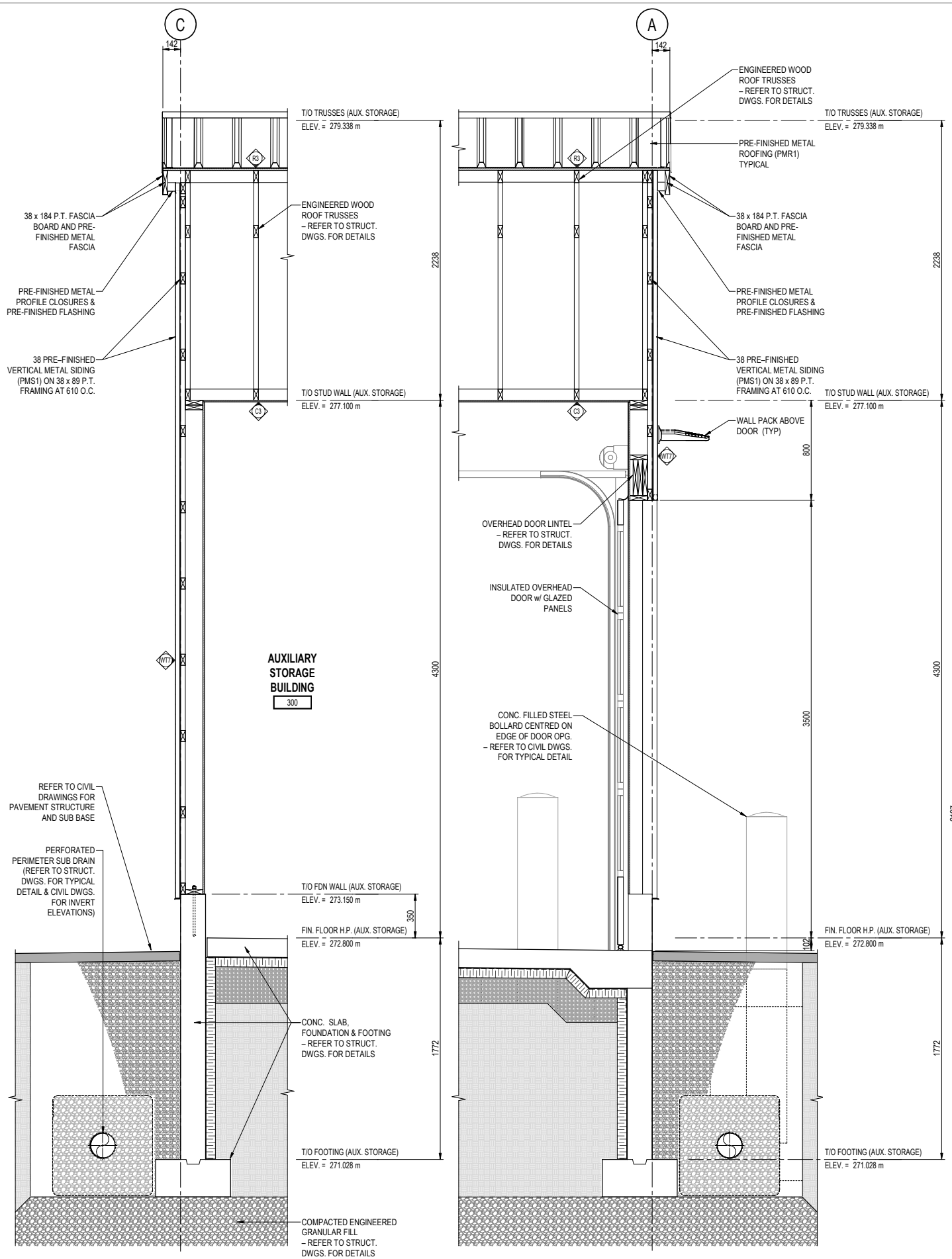
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FENELON FALLS MPY
AUXILIARY STORAGE BUILDING - WALL
SECTIONS AND SECTION DETAILS

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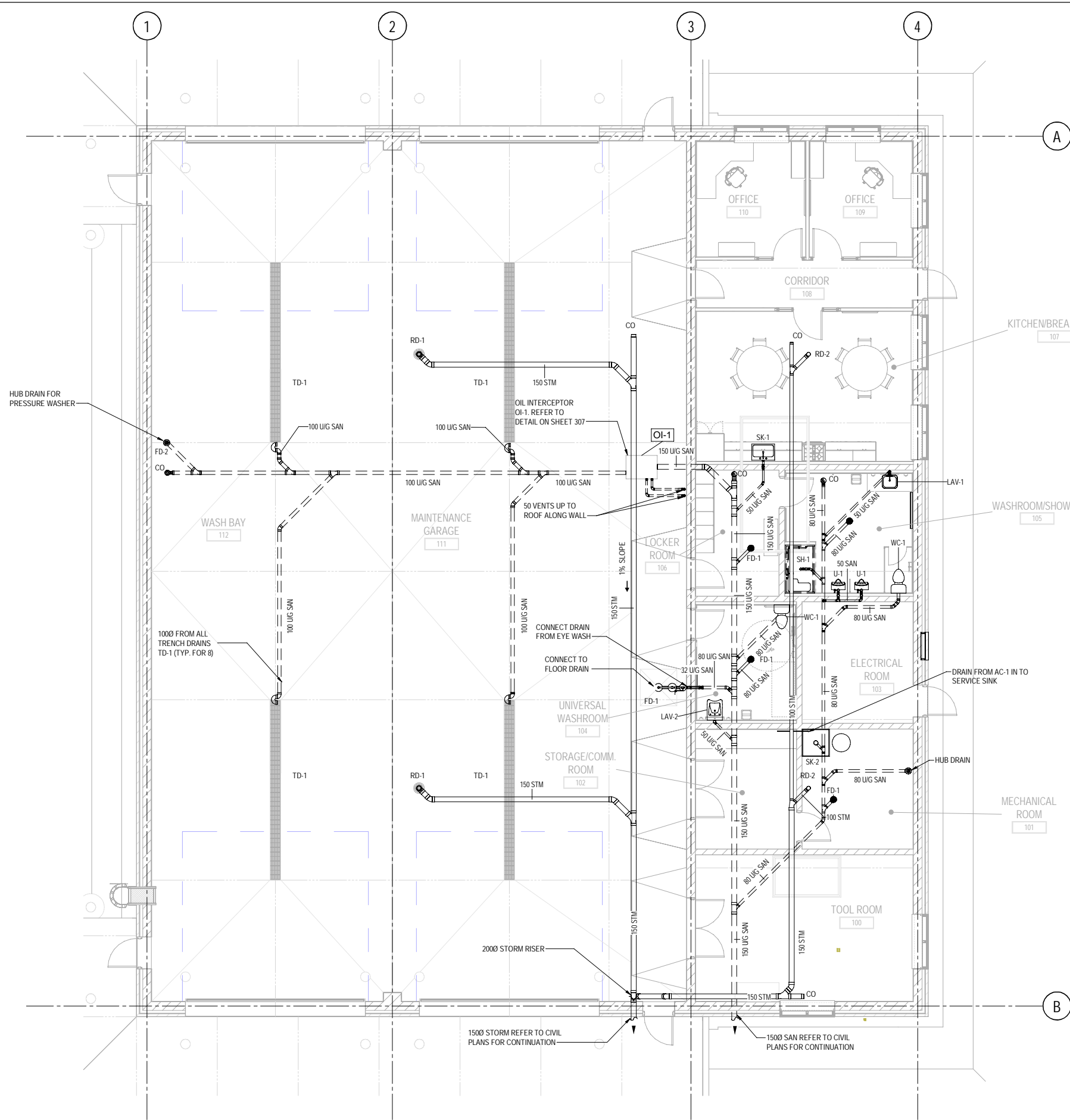
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MECHANICAL

FENELON FALLS MPY
VEHICLE MAINTENANCE GARAGE - FLOOR
PLAN DRAINAGE



SHEET
82

PLUMBING LEGEND

— DCW —	DOMESTIC COLD WATER LINE
— DHW —	DOMESTIC HOT WATER LINE
— DHWR —	HOT WATER RECIRCULATION
— STM —	STORM DRAIN
— SAN —	WASTE WATER SANITARY DRAIN (BELOW GRADE)
— SAN —	WASTE WATER SANITARY DRAIN (ABOVE GRADE)
— T —	TEMPERED WATER LINE
— v —	SANITARY DRAIN VENT LINE
CO	CLEAN-OUT (SANITARY)
—	DRAIN TRAP (SANITARY)
—	PIPE CAP
—	PIPE BREAK
—	WATER HAMMER ARRESTOR
—	PIPING ELBOW UP
—	PIPING ELBOW DOWN
—	HOSE BIBB
—	FLOW DRAIN
—	FUNNEL FLOOR DRAIN
—	HOSE REEL
—	AUTOMATIC TRAP PRIMER
—	GATE VALVE
—	BALL VALVE
—	CHECK VALVE
—	Y-TYPE STRAINER SELF DRAINED
—	PRESSURE REGULATOR
—	BACK FLOW PREVENTOR
—	UNION
—	FLANGED JOINT
—	CONCENTRIC REDUCER
—	ECCENTRIC REDUCER
—	EMERGENCY SHOWER/EYE WASH STATION
CWS	COLD WATER SUPPLY
HWS	HOT WATER SUPPLY
TWS	TEMPERED WATER SUPPLY
CA	COMPRESSED AIR
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR

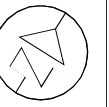
VEHICLE MAINTENANCE BUILDING FLOOR PLAN - DRAINAGE
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MECHANICAL

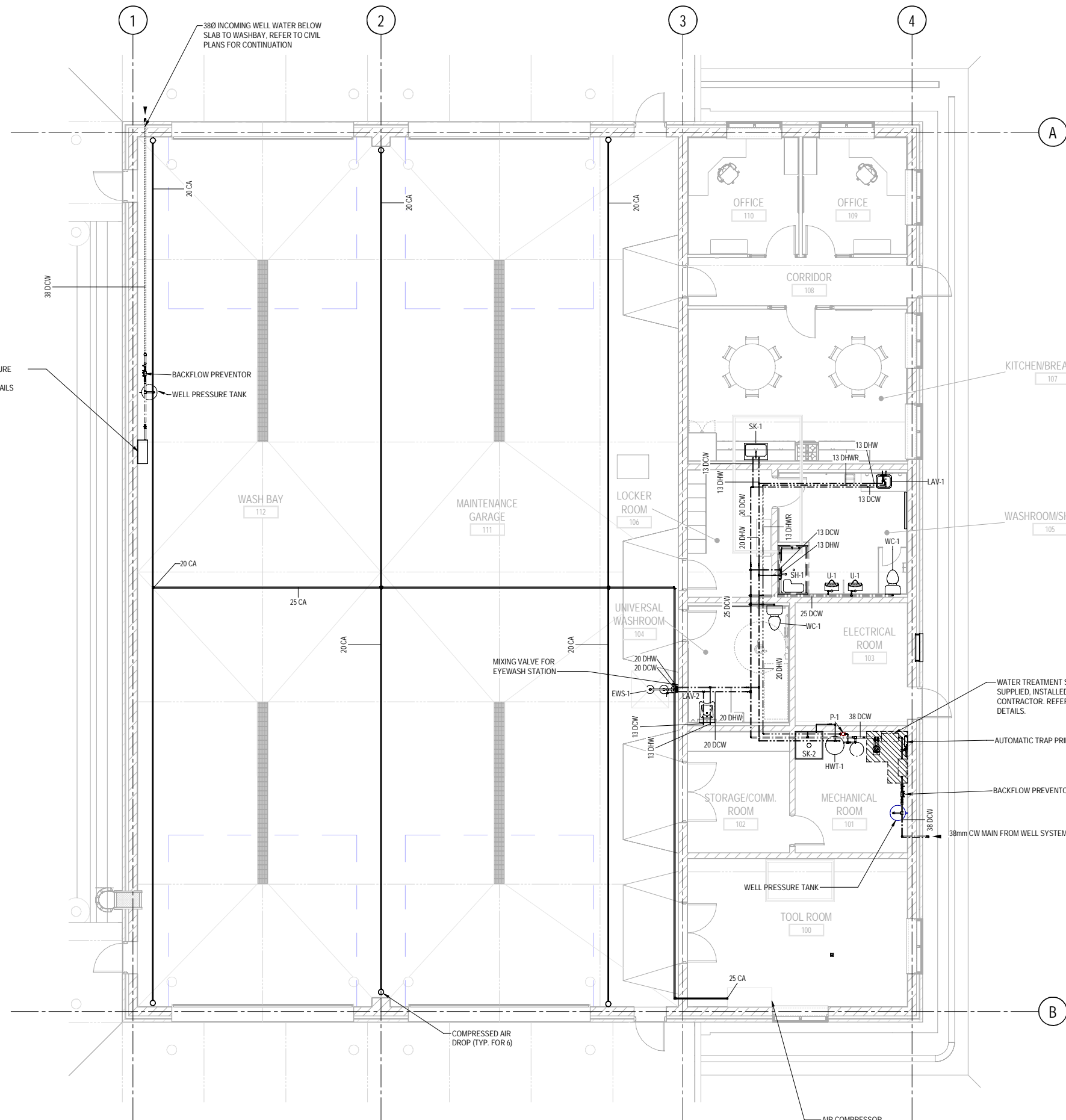
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FENELON FALLS MPY
 VEHICLE MAINTENANCE GARAGE - FLOOR
 PLAN PLUMBING

83



UV DISINFECTION AND
 FILTRATION SYSTEM, AND
 CONNECTION FOR PRESSURE
 WASHER. REFER TO
 SPECIFICATIONS FOR DETAILS



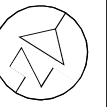
VEHICLE MAINTENANCE BUILDING FLOOR PLAN - PLUMBING

SCALE: 1 : 75

DRAWING NOT TO BE SCALED
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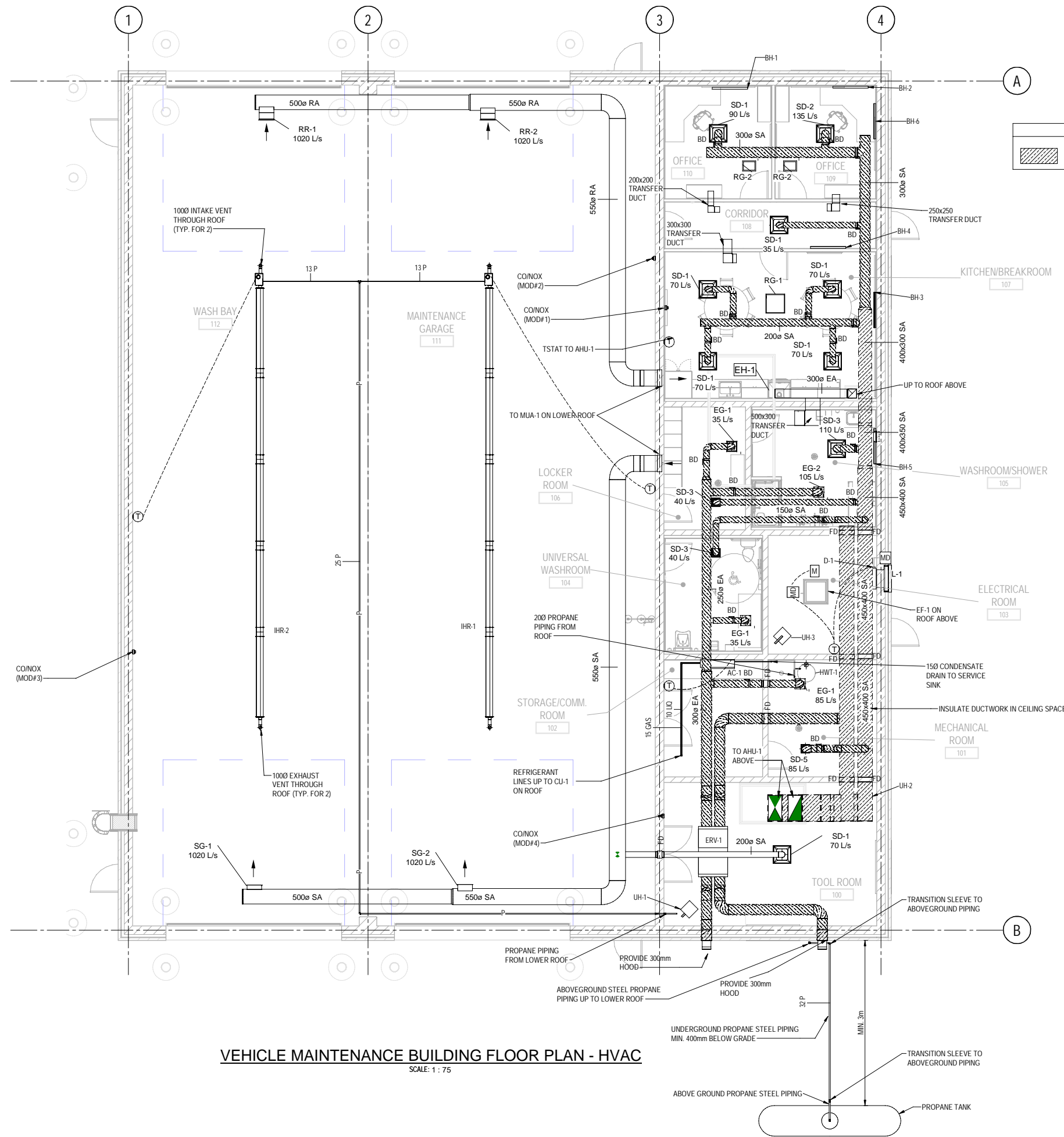


MECHANICAL

SHEET

FENELON FALLS MPY
 VEHICLE MAINTENANCE GARAGE - FLOOR
 PLAN HVAC

84



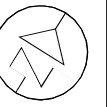
VEHICLE MAINTENANCE BUILDING FLOOR PLAN - HVAC
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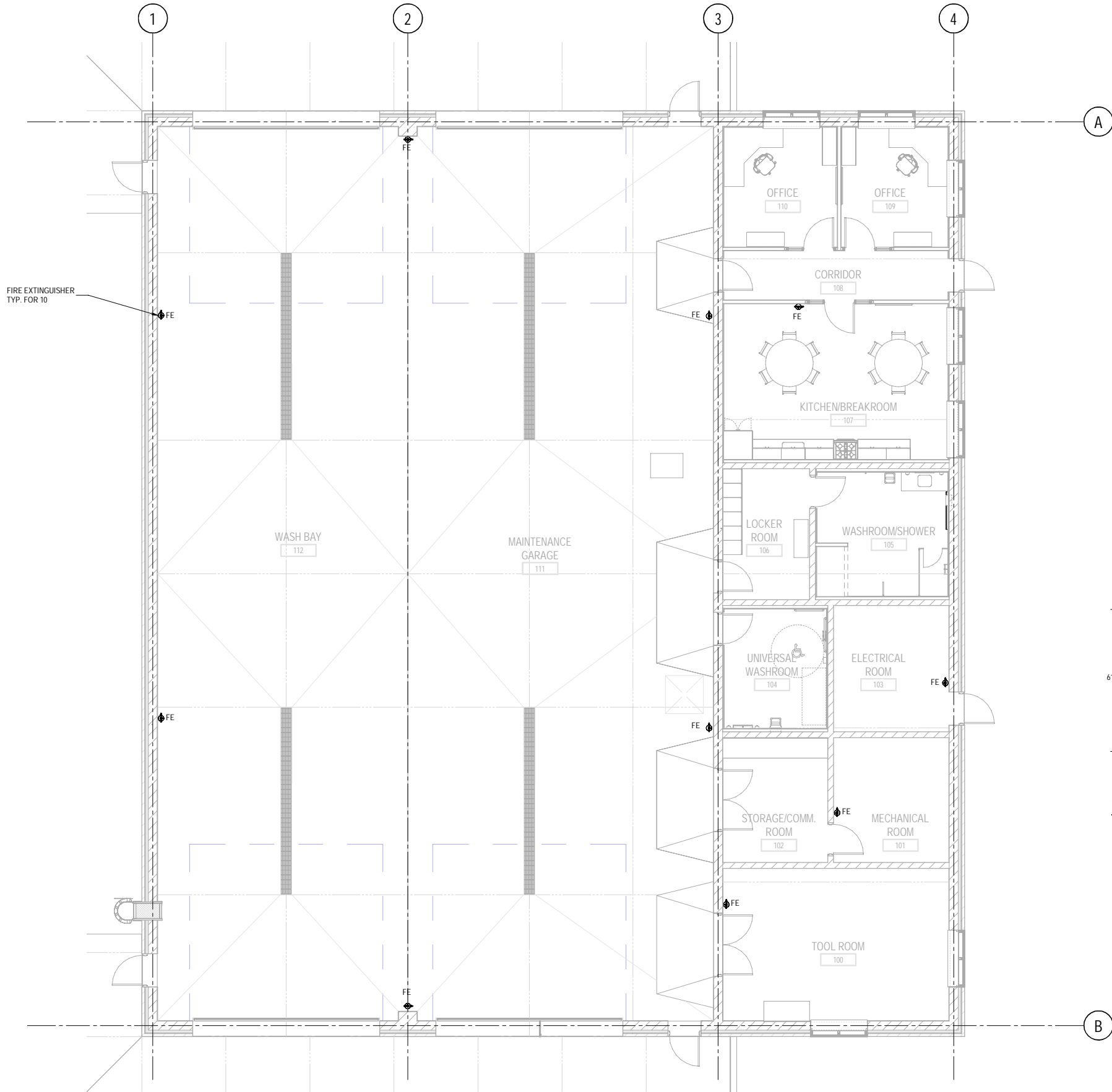


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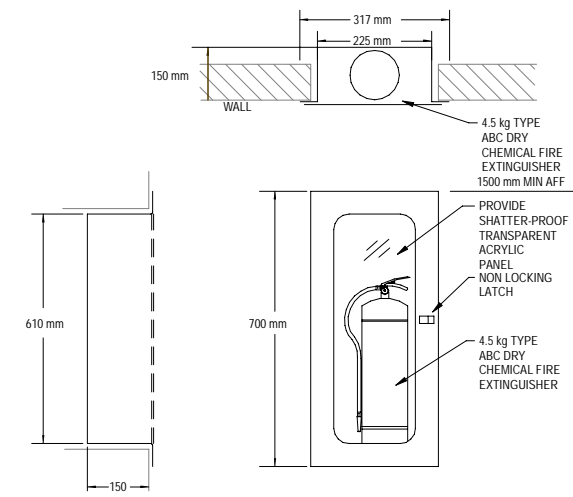
SHEET

FENELON FALLS MPY
 VEHICLE MAINTENANCE GARAGE - FIRE
 PROTECTION PLAN

85



FIRE EXTINGUISHER
 TYP. FOR 10



DETAIL - FIRE EXTINGUISHER CABINET TYPE
 SCALE: NOT TO SCALE

VEHICLE MAINTENANCE BUILDING FLOOR PLAN - FIRE PROTECTION
 SCALE: NOT TO SCALE

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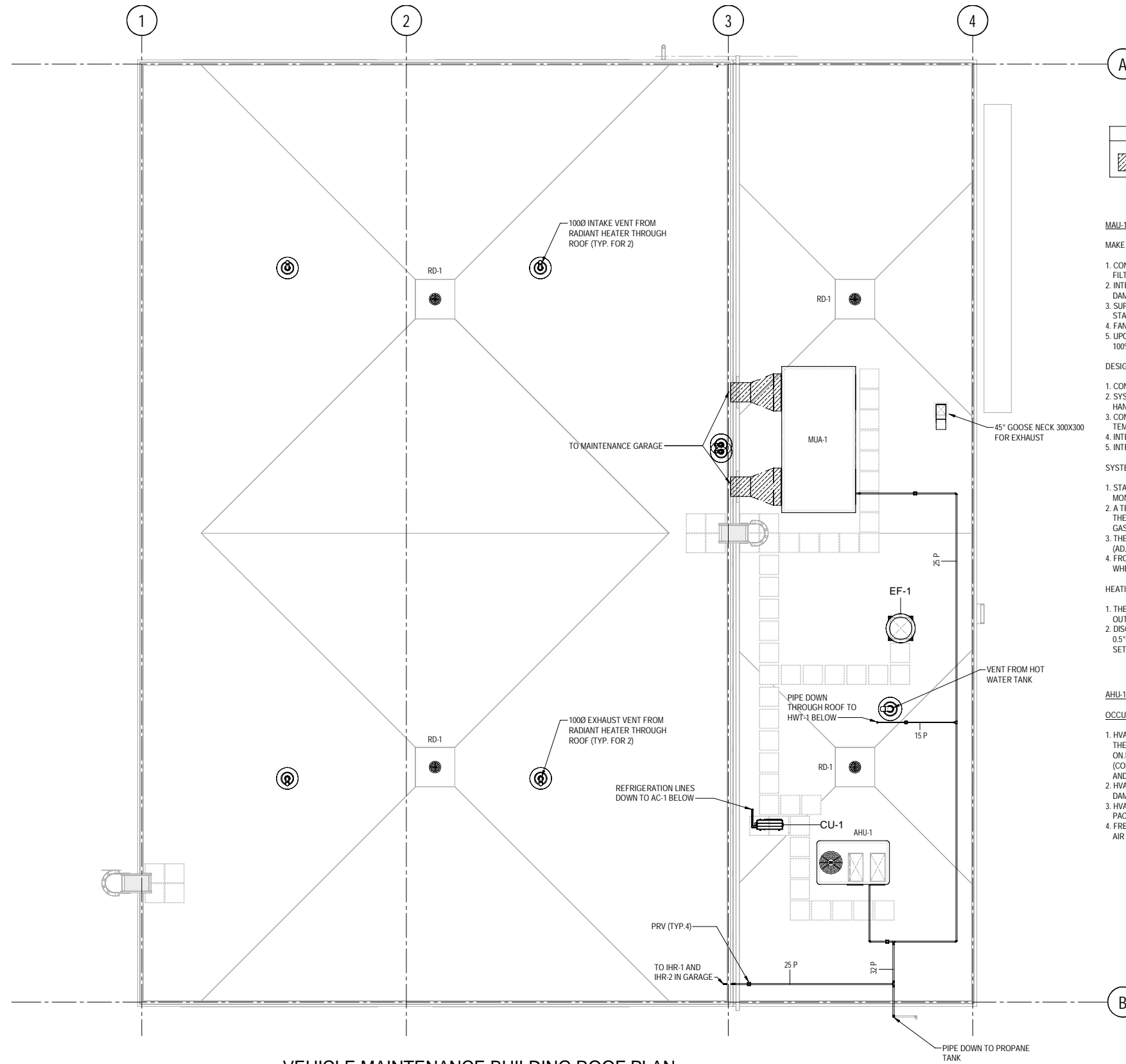


MECHANICAL

SHEET

FENELON FALLS MPY
 VEHICLE MAINTENANCE GARAGE - ROOF
 PLAN

86



LEGEND	
	DUCT EXTERNAL INSULATION FINISHED WITH ALUMINUM JACKETING

MAU-1 & ERV-2 SEQUENCE OF OPERATION

MAKE UP AIR UNIT DESCRIPTION

1. CONSTANT VOLUME SUPPLY AIR WITH VFD, WITH PRE-FILTER AND FINAL FILTERS, MODULATING PROPANE HEAT, SUPPLY FAN.
2. INTEGRATED ERV, AIR TO AIR PLATE HEAT EXCHANGER TYPE WITH FACE DAMPER AND PREFILTERS.
3. SUPPLY FAN CONTROL: SUPPLY FAN IS CONTROLLED VIA SUPPLY DUCT STATIC PRESSURE.
4. FANS TO OPERATE AT 50% NORMALLY DURING OCCUPIED PERIODS.
5. UPON ALARM SIGNAL FROM GAS DETECTION SYSTEM, FANS TO OPERATE AT 100% FOR 20 MINUTES AFTER ALARM SIGNAL HAS CEASED.

DESIGN INTENT

1. CONTINUOUS, 24 HOURS PER DAY OPERATION WITH MANUAL START/STOP.
2. SYSTEM SAFETIES ACTIVE WITH LOCAL SWITCH SET TO EITHER AUTO OR HAND.
3. CONTROL OF GAS HEATING TO DISCHARGE/SUPPLY AIR SET POINT TEMPERATURE.
4. INTERLOCK WITH GAS DETECTION SYSTEM.
5. INTEGRATED ERV TO PROVIDE HEAT RECOVER FROM SPACE.

SYSTEM START

1. STANDALONE CONTROLLER WILL START THE SUPPLY FAN MOTORS AND MONITOR CURRENT SWITCHES INSTALLED IN THE FAN VFD'S.
2. A TEMPERATURE CONTROLLER, WITH ITS SENSING ELEMENT LOCATED IN THE SUPPLY AIR, SHALL MODULATE IN SEQUENCE THE HEAT WHEEL AND GAS FIRED HEATING TO MAINTAIN ADJUSTABLE SET POINT.
3. THE SUPPLY AIR TEMPERATURE SET POINT SHALL BE RESET AT 13°C (ADJUSTABLE) BY ONE SPACE TEMPERATURE IN THE ZONE.
4. FROST PROTECTION FOR ERV TO CONTROL INTERNAL BYPASS DAMPER WHEN CONDENSATE FREEZES ON PLATE.

HEATING

1. THE HEATING SET POINT SHALL BE RESET BETWEEN 24°C AND 22°C AS THE OUTDOOR AIR TEMPERATURE IS BETWEEN 11°C AND 15°C.
2. DISCHARGE AIR TEMP SHALL INCREASE WHEN THE SPACE TEMPERATURE IS 0.5°C BELOW THE HEATING SETPOINT AND SHALL MODULATE TO MAINTAIN SETPOINT.

AHU-1 & ERV-1 SEQUENCE OF OPERATION

OCCUPIED MODE:

1. HVAC UNIT SHALL BE CYCLED ACCORDING TO PROGRAMMABLE THERMOSTAT. ERV-1 SHALL OPERATE AT CONSTANT VOLUME WHEN AHU-1 IS ON DURING OCCUPIED HOURS, UNITS SHALL OPERATE CONTINUOUSLY (CONSTANT AIR VOLUME); DURING UN-OCCUPIED HOURS - UNITS SHALL CYCLE AND OUTSIDE AIR DAMPER SHALL CLOSE.
2. HVAC UNIT OUTSIDE AIR INTAKE HOOD SHALL BE SET TO REQUIRED MINIMUM. DAMPER SHALL MODULATE WHEN ECONOMIZER OPERATION IS INITIATED.
3. HVAC UNIT SHALL BE PROVIDED WITH A FULL ECONOMIZER ENTHALPY CONTROL PACKAGE.
4. FREEZE PROTECTION SENSOR WILL SHUT DOWN THE SUPPLY AIR FAN IF MIXED AIR TEMPERATURE FALLS BELOW 7.2°C. (MANUAL RESET)

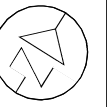
VEHICLE MAINTENANCE BUILDING ROOF PLAN

SCALE: 1 : 75

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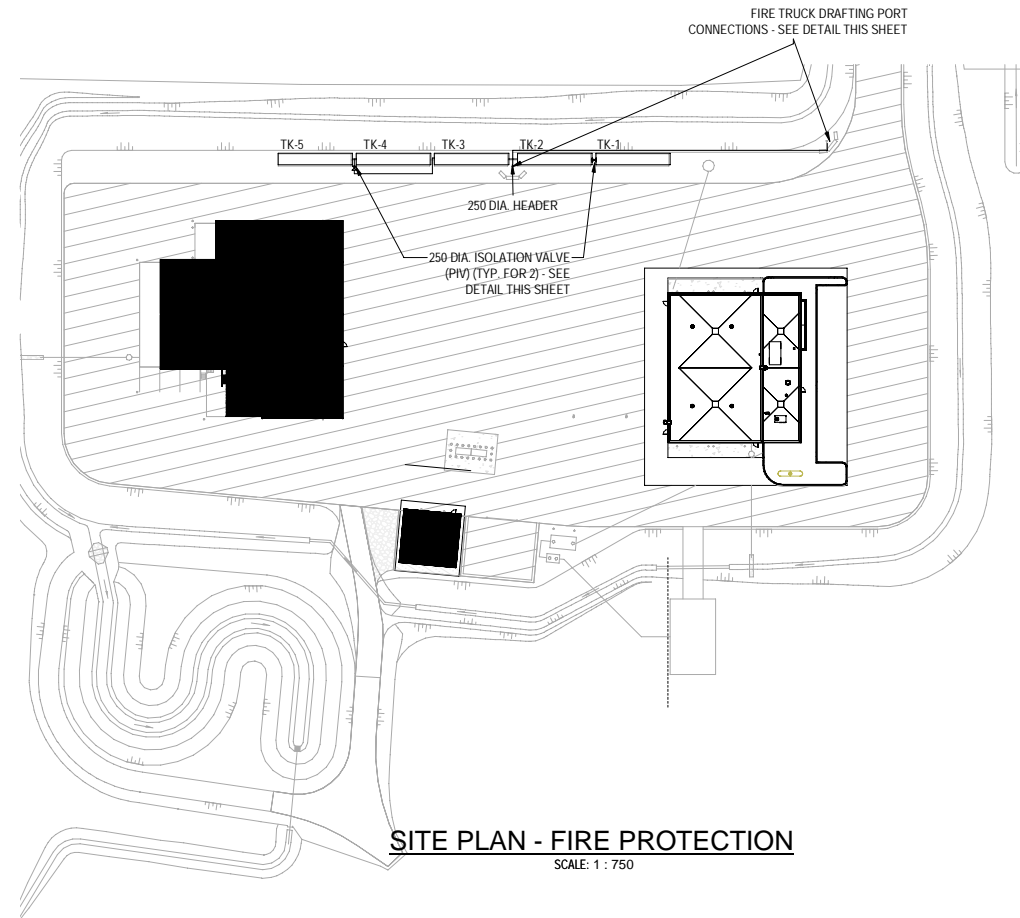


MECHANICAL

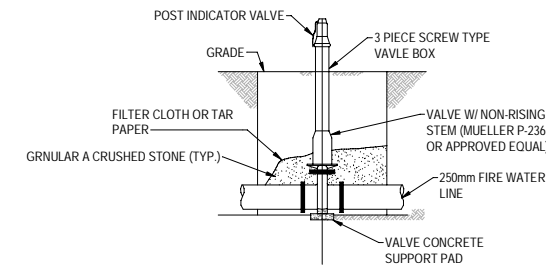
SHEET

FENELON FALLS MPY
 FIRE TRUCK DRAFTING PORT CONNECTION

87

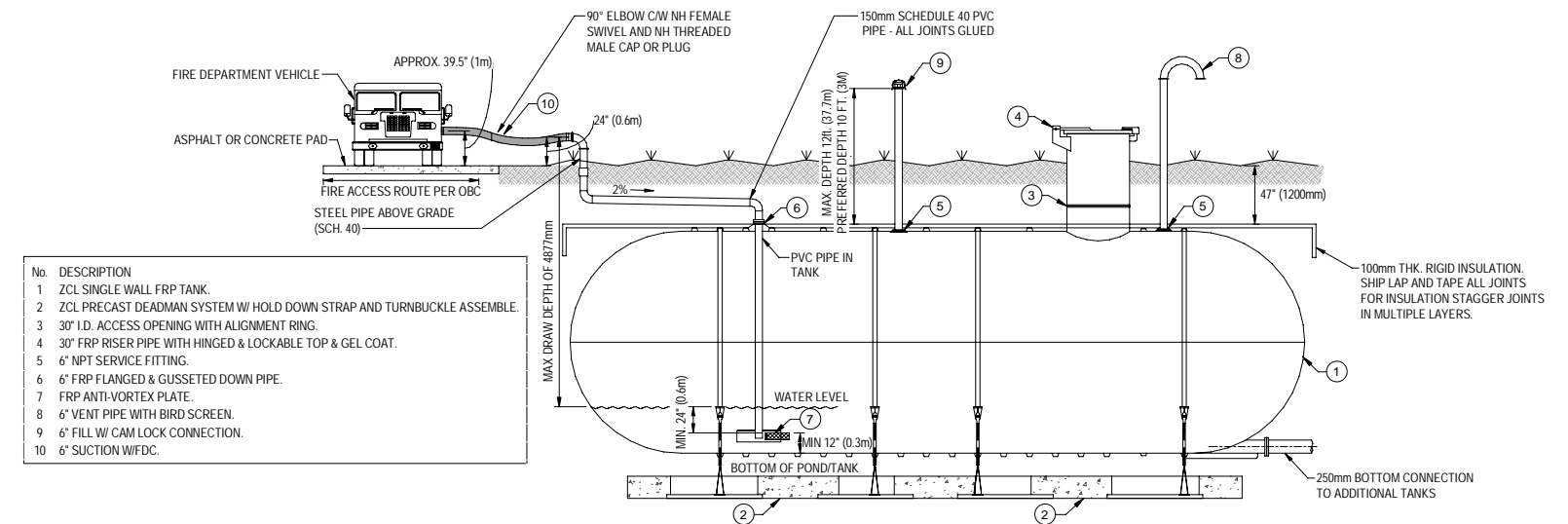


SITE PLAN - FIRE PROTECTION
 SCALE: 1 : 750



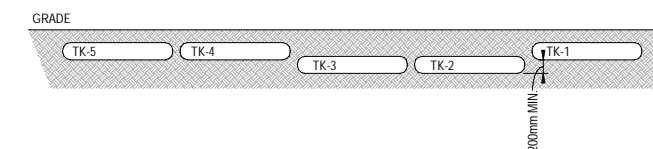
NOTE: KEEP ALL NUTS AND BOLTS CLEAN AND FREE FROM CONCRETE

DETAIL - POST INDICATOR VALVE
 SCALE: NOT TO SCALE



- | No. | DESCRIPTION |
|-----|---|
| 1 | ZCL SINGLE WALL FRP TANK |
| 2 | ZCL PRECAST DEADMAN SYSTEM W/ HOLD DOWN STRAP AND TURNBUCKLE ASSEMBLY |
| 3 | 30" I.D. ACCESS OPENING WITH ALIGNMENT RING |
| 4 | 30" FRP RISER PIPE WITH HINGED & LOCKABLE TOP & GEL COAT |
| 5 | 6" NPT SERVICE FITTING |
| 6 | 6" FRP FLANGED & GUSSETED DOWN PIPE |
| 7 | FRP ANTI-VORTEX PLATE |
| 8 | 6" VENT PIPE WITH BIRD SCREEN |
| 9 | 6" FILL W/ CAM LOCK CONNECTION |
| 10 | 6" SUCTION W/FDC |

DETAIL - FIRE TRUCK DRAFTING PORT AND TANK DETAIL
 SCALE: NOT TO SCALE



UNDERGROUND FIRE WATER STORAGE TANKS RELATIVE ELEVATION
 SCALE: NOT TO SCALE

FIRE WATER TANK SCHEDULE								
TAG	SERVICE	CAPACITY		DIAMETER (mm)	LENGTH (mm)	ACCEPTABLE PRODUCT (OR APPROVED EQUAL)		NOTES
		LITRES	US. GAL			MANUFACTURER	MODEL	
T-1	FIRE PROTECTION	65,000	17,171	2,438	14,522	XERXES	ZCL	1,2
T-2	FIRE PROTECTION	65,000	17,171	2,438	14,522	XERXES	ZCL	1,2
T-3	FIRE PROTECTION	65,000	17,171	2,438	14,522	XERXES	ZCL	1,2
T-4	FIRE PROTECTION	65,000	17,171	2,438	14,522	XERXES	ZCL	1,2,3
T-5	FIRE PROTECTION	65,000	17,171	2,438	14,522	XERXES	ZCL	1,2

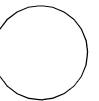
NOTES:
 1. UNDERGROUND FRP, SINGLE WALL TANK, MFG IN ACCORDANCE WITH NFPA 22 AND 1142 STANDARDS.
 2. C/W 10" BOTTOM CONNECTION, 30" ACCESS MANWAY AND 6" VENT CONNECTION. TANKS SHALL BE SLOPED TOWARDS DRAFT PORT.
 3. 6" FRP FLANGED AND GUSSETED DOWN PIPE, FRP ANTI-VORTEX PLATE, 6" FILL PIPE, LEVEL CONTROLLER, AND LOW LEVEL ALARM SYSTEM C/W NEMA 4R ENCLOSURE, HORN AND BEACON.
 4. ALL EXCAVATION AND BACK FILL SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTION

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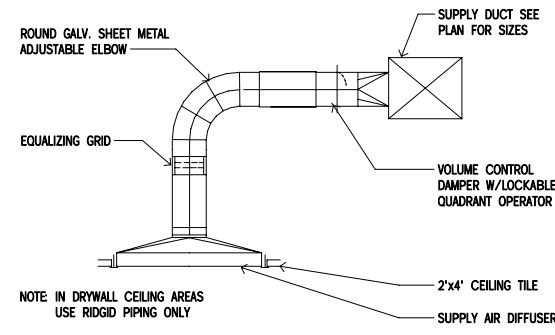
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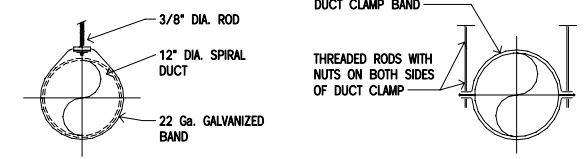
MECHANICAL
 FENELON FALLS MPY
 DETAILS



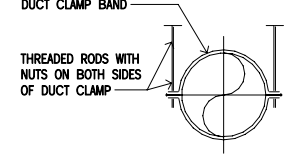
SHEET
 88



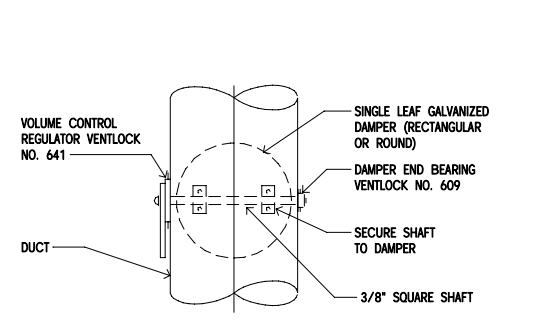
SUPPLY DIFFUSER DETAIL
 NO SCALE



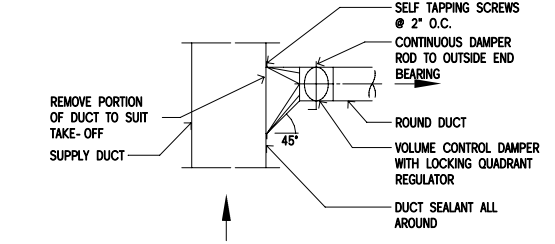
FOR DUCTS 12" DIA. OR SMALLER
 NO SCALE



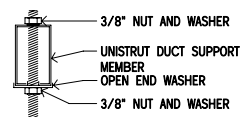
FOR DUCTS LARGER THAN 12" DIA.
 NO SCALE



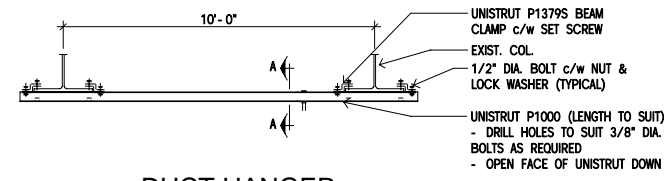
VOLUME CONTROL DAMPER - DETAIL
 SCALE: 1" = 1'-0"



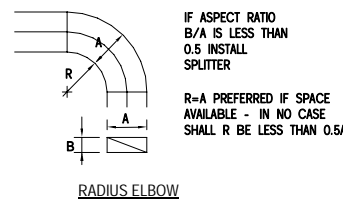
DUCT TAKE-OFF DETAIL
 NO SCALE



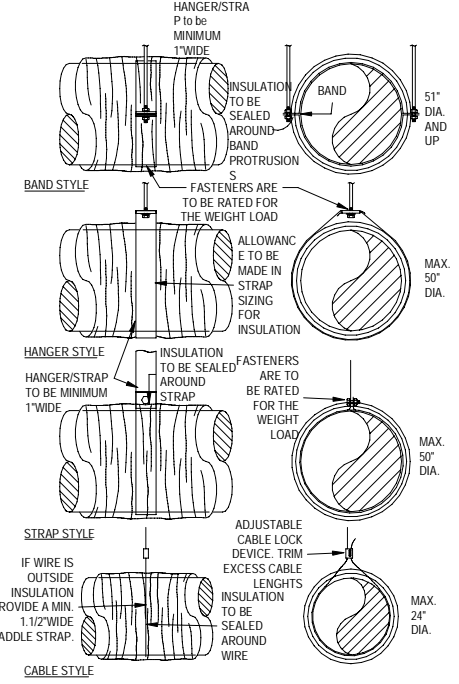
DUCT HANGER DETAIL A-A
 NO SCALE



DUCT HANGER



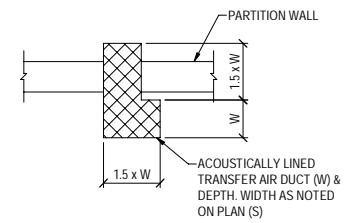
DUCTWORK-ELBOW DETAIL
 SCALE: N.T.S.



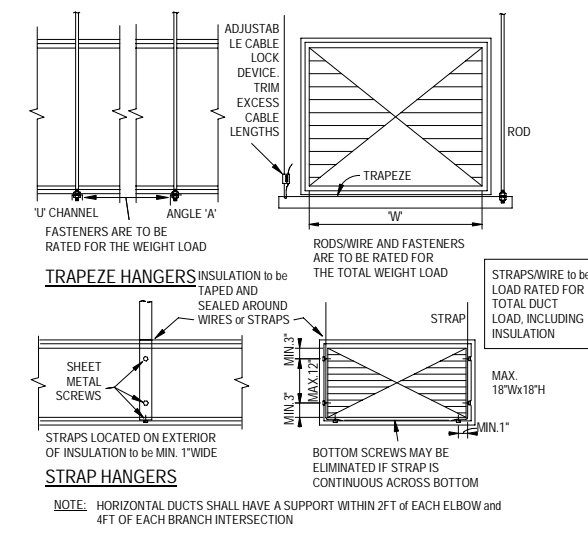
HANGER STRAPS or RODS			
MAX. DUCT Ø IN. (mm)	QUANTITY/SIZE IN. (mm)	MAX. LOAD LBS. (kg)	MAX. SPACING IN. (mm)
4"-26" (100-650)	(1) 1" (25) x 22ga STRAP	260 (118)	120" (3000)
27"-36" (675-900)	(1) 1" (25) x 18ga STRAP	420 (190)	120" (3000)
37"-50" (925-1250)	(1) 1" (25) x 16ga STRAP	700 (317)	120" (3000)
60 (1500)	(2) 3/8" (10) Ø RODS, 18ga BAND	1320 (598)	96" (2400)
84+ (2100)	(2) 1/2" (12) Ø RODS, 16ga BAND	2500 (1133)	96" (2400)

NOTE: HORIZONTAL DUCTS SHALL HAVE A SUPPORT WITHIN 2FT OF EACH ELBOW and 4FT WITHIN EACH BRANCH INTERSECTION

ROUND DUCT SUPPORT
 SCALE: NOT TO SCALE



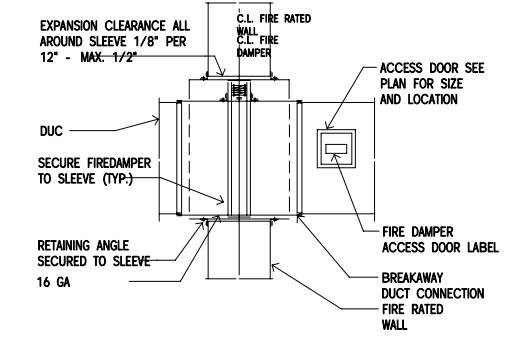
TYPICAL TRANSFER DUCT
 SCALE: N.T.S.



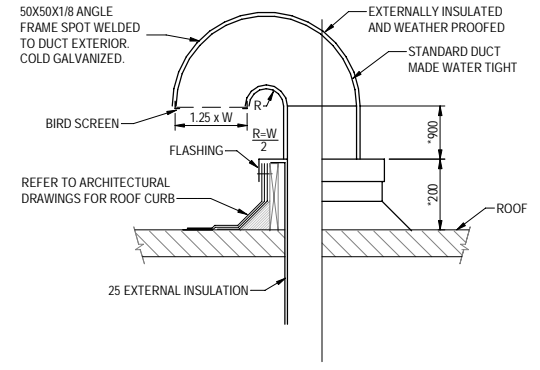
HANGER STRAPS or RODS				
DUCT 'W' IN. (mm)	ROD/STRAP SIZE (MIN) IN. (mm)	TRAPEZE ANGLE/CHANNEL SIZE (MIN) IN. (mm)	MAX. LOAD (°) LBS. (kg)	MAX. SPACING IN. (mm)
4"-18" (100-450)	1" (25) x 22ga STRAP 1/4" (6) ROD	1" (25) x 22ga STRAP 1" H(25) x 1" W(25) x 16ga °C	80 (36) 80 (36)	120" (3000)
19"-30" (475-750)	1/4" (6) ROD	1" (25) x 1" (25) x 1/8" (3) 'A' 1" H(25) x 1.5/8" W(41) x 12ga °C	150 (68) 150 (68)	120" (3000)
31"-42" (925-1050)	1/4" (6) ROD	1.1/2" (38) x 1.1/2" (38) x 1/8" (3) 'A' 1.3/8" H(34) x 1.5/8" W(41) x 12ga °C	350 (159) 320 (145)	120" (3000)
43"-60" (1075-1500)	3/8" (10) ROD	1.1/2" (38) x 1.1/2" (38) x 1/4" (6) 'A' 1.3/8" H(34) x 1.5/8" W(41) x 12ga °C	610 (277) 490 (223)	96" (2400)
61"-82" (1525-2050)	3/8" (10) ROD	2" (50) x 2" (50) x 1/4" (6) 'A' 2.7/16" H(61) x 1.5/8" W(41) x 12ga °C	1060 (481) 790 (359)	96" (2400)
83"-94" (2075-2350)	3/8" (10) ROD	2.1/2" (63) x 2.1/2" (63) x 1/4" (6) 'A' 3.1/4" H(82) x 1.5/8" W(41) x 12ga °C	1400 (636) 1060 (482)	96" (2400)
94"-120" (2375-3000)	3/8" (10) ROD	3" (75) x 3" (75) x 1/4" (6) 'A' 3.1/4" H(82) x 1.5/8" W(41) x 12ga °C	2510 (1140) 1220 (555)	96" (2400)

120" (3000) OR GREATER REFER TO SMACNA TABLE 5.3
 (*) MAXIMUM LOAD TRAPEZE - LOW END OF DUCT SIZE TO HIGH END OF SIZE RANGE.
 ALL RATING TO MEET SMACNA TABLE 5.3 GUIDE LINES

SQUARE DUCT SUPPORT
 SCALE: NOT TO SCALE



VERTICAL TYPICAL FIRE DAMPER INSTALLATION
 NO SCALE

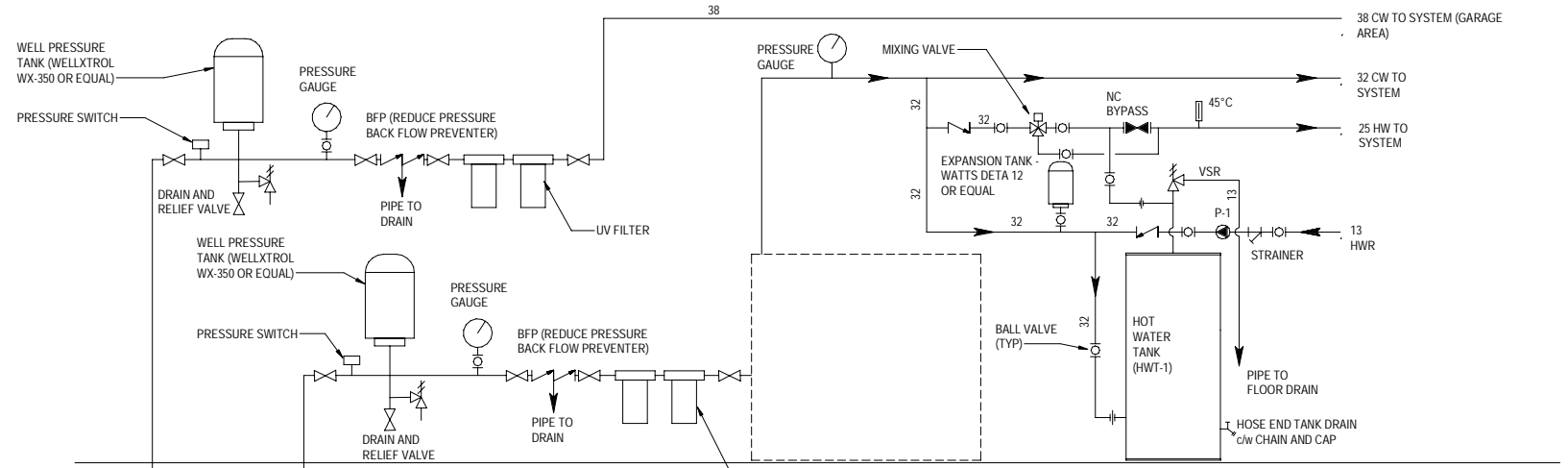


DUCTWORK-GOOSENECK DETAIL
 SCALE: N.T.S.

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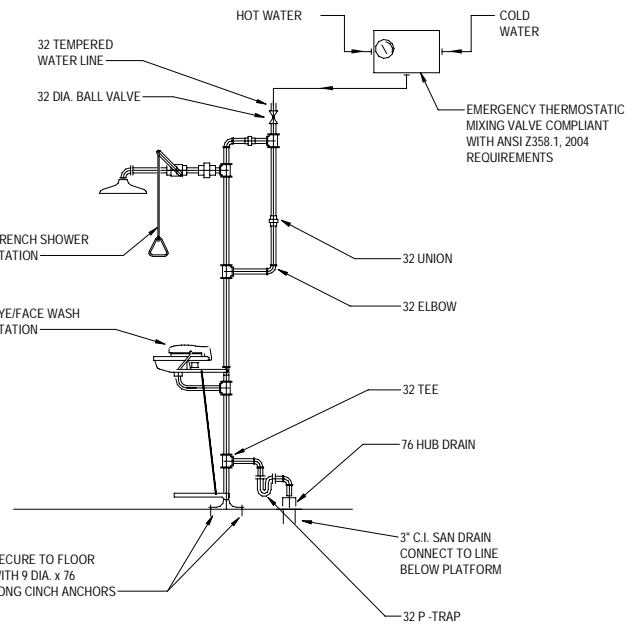
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DETAIL - WATER ENTRANCE SCHEMATIC
SCALE: NOT TO SCALE

NOTE:
1. INSULATE ALL PIPING c/w PVC JACKET WHERE EXPOSED, ASJ OTHERWISE.
2. ALL WIRING & EMT CONDUIT BY ELECTRICAL CONTRACTOR.



DETAIL - EYEWASH AND SHOWER STATION
SCALE: NOT TO SCALE

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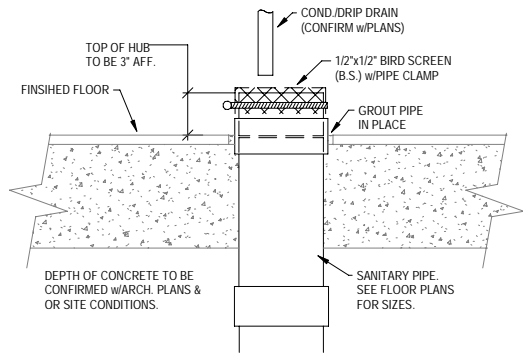
MECHANICAL

FENELON FALLS MPY DETAILS

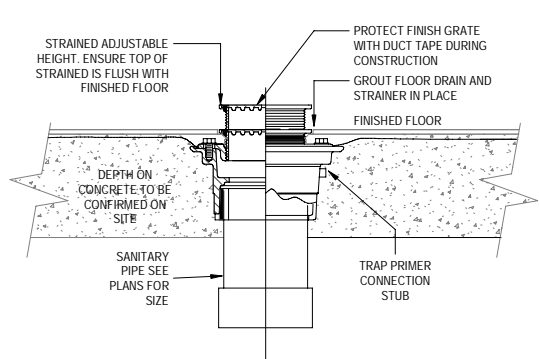
DILLON CONSULTING

SHEET 89

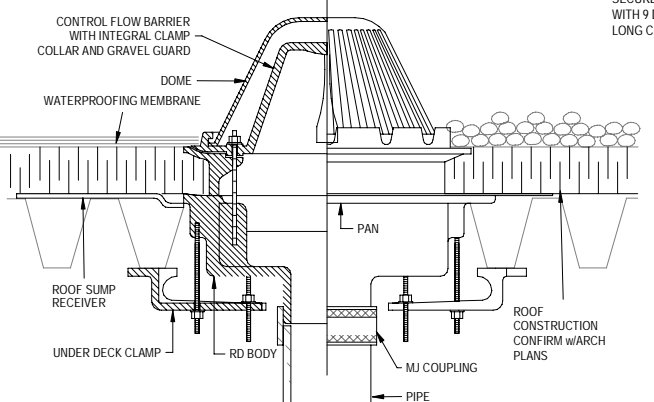
LICENSED PROFESSIONAL ENGINEER
E. R. PELLETIER
10055631
2024-10-17
PROVINCE OF ONTARIO



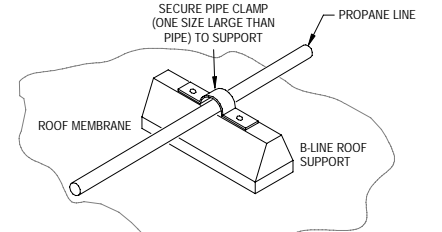
DETAIL - HUB FLOOR DRAIN
SCALE: NOT TO SCALE



DETAIL - FLOOR DRAIN
SCALE: NOT TO SCALE



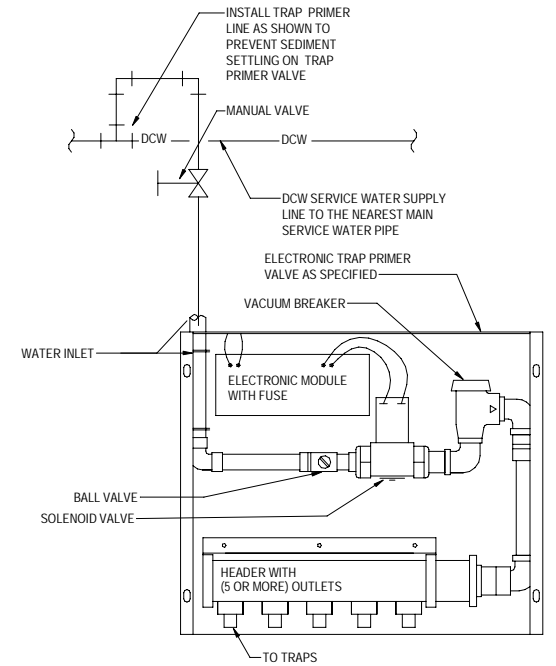
DETAIL - ROOF DRAIN
SCALE: NOT TO SCALE



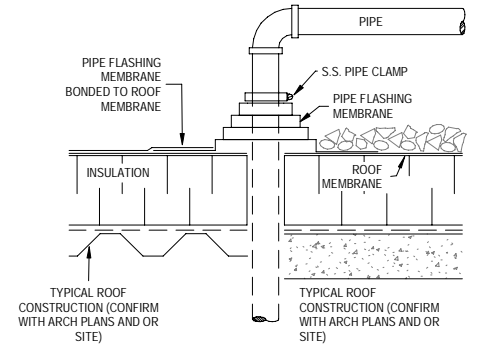
MAX SPACING OF SUPPORTS (FT.)

DN	MAX SPACING OF SUPPORTS (m)
15mm OR LESS - HORIZONTAL	1.8
20mm OR LESS - HORIZONTAL	2.4
32mm TO 65mm OR LESS - HORIZONTAL	3

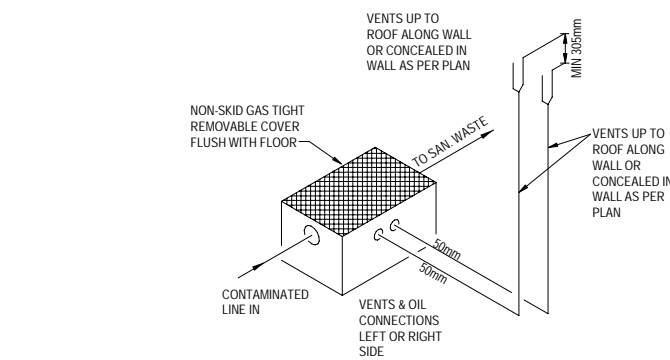
DETAIL - GAS PIPE SUPPORT ROOF
SCALE: NOT TO SCALE



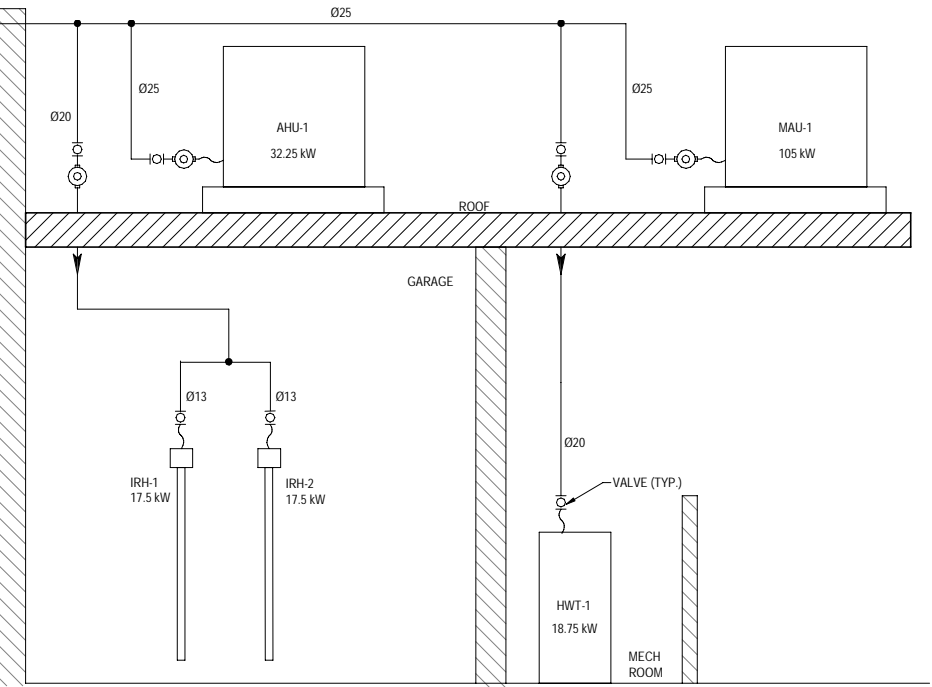
DETAIL - FLOOR DRAIN TRAP PRIMER
SCALE: NOT TO SCALE



DETAIL - PIPE ROOF PENETRATION
SCALE: NOT TO SCALE



DETAIL - OIL INTERCEPTOR
SCALE: NOT TO SCALE



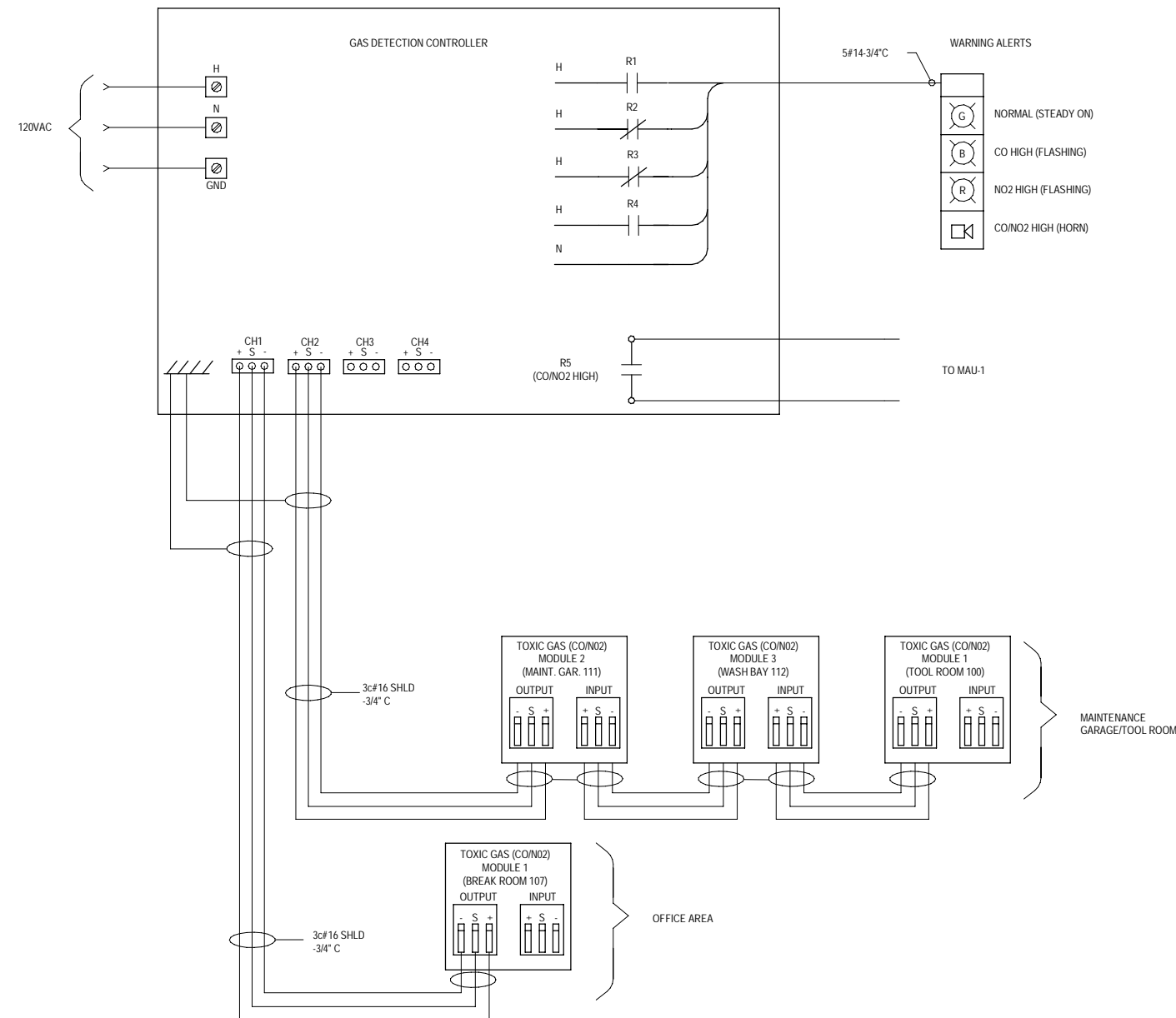
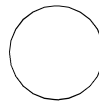
DETAIL - PROPANE SYSTEM SCHEMATIC
SCALE: NOT TO SCALE

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GAS DETECTION SYSTEM WIRING DIAGRAM
 SCALE: NOT TO SCALE

GAS DETECTION SYSTEM:

1. FOUR CHANNEL GAS MONITOR-FULLY PROGRAMMABLE, EASY TO READ DISPLAY FOR CONTINUOUS GAS CONCENTRATION AND ALARM INDICATION FOR EACH CHANNEL, EXTERNAL KEYPAD, INTEGRAL STROBE, EXTERNAL AUDIBLE ALARM, 16 RELAYS, 4-20mA OUTPUTS, NEMA 4X ENCLOSURE, 120VAC, CSA APPROVED. ARMSTRONG AMC-1400 OR APPROVED EQUAL.
2. GAS SENSOR MODULES- MULTI DROP TYPE CO AND NO2 SENSORS WITH 0-100ppm CO AND 0-3ppm NO2, CSA APPROVED. ARMSTRONG AMC-1222 OR APPROVED EQUAL.

SET POINTS

- CO > 25ppm
- NO2 > 3ppm

3. WARNING ALERT INDICATORS- MODULAR STACK LIGHT COMPLETE WITH 36" STEM MOUNTING BASE, WIRING, LIGHT AND SOUND MODULES, 120VAC, CSA APPROVED. FEDERAL SIGNAL RADIANT STACK LIGHT OR APPROVED EQUAL.
4. ADDITIONAL SIGNAGE TO BE POSTED NEAR WARNING INDICATORS.

STEADY GREEN-NORMAL
 FLASHING BLUE- CO HIGH
 FLASHING RED- NO2 HIGH
 ALARM HORN- CO/NO2 HIGH

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 100 mm ON ORIGINAL DRAWING

REVISIONS	REV	DATE	BY	DESCRIPTION
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LEGEND:

- CONDUIT TURNING DOWN.
- CONDUIT TURNING UP.
- BARE COPPER APPROX. 1200mm BELOW GRADE.
- BURIED OR CONCEALED CONDUIT.
- HYDRO CABLE AERIAL EXISTING.
- HYDRO CABLE AERIAL PROPOSED.
- PROPOSED HYDRO POLE.
- EXISTING HYDRO POLE.
- SINGLE GUY ANCHOR.
- ELECTRICAL GROUND ROD.
- PROPOSED POLE WITH SINGLE LUMINAIRE WITH BRACKET, REFER TO SCHEDULE FOR TYPE.
- PROPOSED POLE WITH DOUBLE LUMINAIRE WITH BRACKET, REFER TO SCHEDULE FOR TYPE.
- MAINTENANCE HOLE
- HANDHOLE
- LED LIGHTING FIXTURE, REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE.
- WALL LIGHT SWITCH:
3 - DENOTES - 3-WAY.
W/P - DENOTES - WEATHERPROOF.
D - DIMMER
- CEILING MOUNTED OCCUPANCY SENSOR.
LOW VOLTAGE SENSOR SWITCH MODEL: CM 6 R LT
- EXIT SIGN WALL MOUNTED 7 FEET A.F.F.
RE3 - DENOTES - FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE.
- WALL MOUNTED PICTOGRAM EXIT SIGN. MOUNTED 7 FEET A.F.F.
EM1 - DENOTES - CONNECTED TO BATTERY PACK NO.1.
RE3 - DENOTES - FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE.
- LED REMOTE EMERGENCY HEAD UNITS (DOUBLE). WALL MOUNTED 7 FEET A.F.F.
EM1 - DENOTES - CONNECTED TO BATTERY RACK NO.1.
RE1 - DENOTES - FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE.
- EMERGENCY BATTERY PACK C/W EMERGENCY HEADS. MOUNTED 7 FEET A.F.F.
- 15A, 120V, 1Ø, DUPLEX GROUNDED RECEPTACLE. (5-15R) MOUNTED 457mm A.F.F.
C/W STAINLESS STEEL COVER PLATE.
GFI - DENOTES - GROUND FAULT INTERRUPTER.
W/P - DENOTES - WEATHERPROOF COVER REQUIRED.
A/C - DENOTES - ABOVE COUNTER.
CL - DENOTES - CEILING MOUNTED.
- 20A, 120V, 1Ø, SPLIT RECEPTACLE. (5-20R) MOUNTED 1167mm A.F.F. C/W STAINLESS STEEL COVER PLATE.
GFI - DENOTES - GROUND FAULT INTERRUPTER.
W/P - DENOTES - WEATHERPROOF COVER REQUIRED.
A/C - DENOTES - ABOVE COUNTER.
CL - DENOTES - CEILING MOUNTED.
- 20A, 120V, 1Ø, T-SLOT, DUPLEX GROUND RECEPTACLE. (5-20R).
GFI - DENOTES - GROUND FAULT INTERRUPTER.
W/P - DENOTES - WEATHERPROOF COVER REQUIRED.
A/C - DENOTES - ABOVE COUNTER.
- 30A, 125/250V, 3-POLE, 4 WIRE RECEPTACLE (14-30R).
- 50A, 125/250V, 3-POLE, 4 WIRE RECEPTACLE (14-50R).
- 120V, 1Ø DIRECT CONNECTION FOR USE AS INDICATED.
- 347V OR 208V, 1Ø DIRECT CONNECTION FOR USE AS INDICATED.
- 600V OR 208V, 3Ø DIRECT CONNECTION FOR USE AS INDICATED.
- PAD MOUNTED TRANSFORMER

- 120V, 1Ø MOTOR FOR USE AS INDICATED.
- 600V OR 208V, 3Ø, MOTOR FOR USE AS INDICATED.
- NON-FUSED, THREE PHASE DISCONNECT SWITCH (EEMAC 3R ENCLOSURE, WHERE EQUIPMENT IS LOCATED INDOORS). WHERE REQUIRED TO WEATHERPROOF, PROVIDE EEMAC 4X STAINLESS STEEL ENCLOSURE.
- NON-FUSED, SINGLE PHASE DISCONNECT SWITCH (EEMAC 3R ENCLOSURE, WHERE EQUIPMENT IS LOCATED INDOORS). WHERE REQUIRED TO WEATHERPROOF, PROVIDE EEMAC 4X STAINLESS STEEL ENCLOSURE.
- FUSED, THREE PHASE DISCONNECT SWITCH (EEMAC 3R ENCLOSURE, WHERE EQUIPMENT IS LOCATED INDOORS). WHERE REQUIRED TO WEATHERPROOF, PROVIDE EEMAC 4X STAINLESS STEEL ENCLOSURE.
- ENCLOSED CIRCUIT BREAKER, THREE PHASE (EEMAC 3R ENCLOSURE, WHERE EQUIPMENT IS LOCATED INDOORS). WHERE REQUIRED TO WEATHERPROOF, PROVIDE EEMAC 4X STAINLESS STEEL ENCLOSURE.
- COMBINATION MAGNETIC MOTOR STARTER (SINGLE AND THREE PHASE).
- ELECTRICAL EQUIPMENT AS INDICATED.
- ELECTRICAL EQUIPMENT(GREY COLOUR) FUTURE INSTALLATION.
- VOICE AND DATA OUTLET C/W 21mm DIA. CONDUIT.
- VOICE OUTLET.
- DATA OUTLET.
- ANTENNA SPEAKER
- ANTENNA EQUIPMENT.
- WIRELESS ACCESS POINT.
- HIGH DEFINITION MULTIMEDIA INTERFACE
- DOOR OPERATOR.
- KEY PAD.
- PUSH BUTTON.
- BARRIER FREE UNIVERSAL WASHROOM KIT.
- DOOR CONTACT.
- ELECTRIC STRIKE.
- STROBE LIGHT FOR UNIVERSAL WASHROOM.
- JUNCTION BOX.
- HAND DRYER
- HEAT DETECTOR.
- SMOKE DETECTOR.
- CARBON MONOXIDE DETECTOR
- CCTV CAMERA.
- BASEBOARD HEATER
- PA SPEAKER
- EMERGENCY CALL STATION PUSHBUTTON
- UNIT HEATER.
- DISCONNECT SWITCH, 3 POLE UNLESS OTHERWISE INDICATED.
- CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE INDICATED.
- FUSE.
- TRANSFORMER.
- POTENTIAL TRANSFORMER
- CURRENT TRANSFORMER
- MANUAL TRANSFER SWITCH
- GROUND.
- CONTACT NORMALLY OPEN.
- CONTACT NORMALLY CLOSED.
- PUSH BUTTON, NORMALLY OPEN MOMENTARY CONTACT.
- MOMENTARY CONTACT PUSH BUTTON, NORMALLY CLOSED.
- STARTER COIL CONTROLLING MOTOR M.
- SELECTOR SWITCH, MAINTAINED CONTACT 3 POSITIONS.
- MOTOR CONTACTOR WITH OVERLOAD.

ABBREVIATIONS:

- RPVC RIGID PVC CONDUIT.
- RGS RIGID GALVANIZED STEEL CONDUIT.
- AWG AMERICAN WIRE GAUGE.
- Ø PHASE.
- DIA. DIAMETER.
- TYP. TYPICAL.
- GFI GROUND FAULT INTERRUPTER.
- A/C ABOVE COUNTER.
- B/C BELOW COUNTER.
- W/P WEATHERPROOF.
- U/G UNDERGROUND.
- U/M UNDER SIDE OF MEZZANINE.
- A.F.F. ABOVE FINISHED FLOOR.
- FDS FUSED DISCONNECT SWITCH.
- TB TELEPHONE BACKBOARD.
- MTO MINISTRY OF TRANSPORTATION.
- AMC AREA MAINTENANCE CONTRACT
- 1 DENOTES - LOCATED NEAR MOTOR.
- 2 DENOTES - LOCATED IN MOTOR STARTER.
- 3 DENOTES - LOCATED IN FIELD.

CONSTRUCTION NOTES:

1. ALL DIMENSIONS AND INFORMATION SHALL BE CHECKED AND VERIFIED ON THE JOB SITE AND ANY DISCREPANCIES MUST BE REPORTED BEFORE COMMENCING THE WORK.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME INFORMED OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES, AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWINGS AND WHERE SHOWN, THE ACCURACY CANNOT BE GUARANTEED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES AND UTILITIES IN WORKING AREA PRIOR TO CONSTRUCTION AND SHALL PROTECT THESE UTILITIES AND SERVICES TO THE SATISFACTION OF THE CONCERNED UTILITY COMPANIES AND OWNER. DAMAGES BY THE CONTRACTOR SHALL BE RESTORED TO THE SATISFACTION OF THE CONCERNED UTILITY COMPANY AT NO EXPENSE TO THE OWNER.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL UNDERGROUND STAKE-OUT AND UTILITY LOCATES. THE CONTRACTOR IS RESPONSIBLE TO ENGAGE A QUALIFIED UTILITY LOCATE SPECIALIST FOR THE PROJECT AND INCLUDE ALL COSTS. THE CONTRACT DRAWINGS DO NOT SHOW EXISTING UNDERGROUND UTILITIES.
5. AREAS NEAR UTILITIES SHALL BE HAND DIG OR HYDRO VAC. INCLUDE ALL COSTS.
6. ONCE ALL LOCATES FOR BURIED SERVICES ARE OBTAINED, PREPARE ROUTING PLAN FOR NEW BURIED SERVICES, ADHERING TO ALL MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS. FOR CROSSING OVER OR PASSING UNDER UTILITIES REFER TO O.P.S.D. STANDARD No. 2103.05.
7. ALL PENETRATIONS IN WALLS AND CEILING FOR CONDUIT CROSSING TO BE SEALED AND FIRE STOPPED.
8. PROVIDE QUANTITY OF CONDUITS AS INDICATED ON DRAWINGS BUT AS A MINIMUM THE FOLLOWING TYPES AND CATEGORIES OF WIRING/CABLING SHALL RUN WITHIN SEPARATE RACEWAY SYSTEMS:
 - FIBRE OPTIC AND COMMUNICATIONS WIRING/CABLES
 - NORMAL 120/208V POWER CIRCUITS
 - NORMAL 347/600V POWER CIRCUITS
 - EMERGENCY 120V POWER CIRCUIT
 - CLASS 2 WIRING
 - FIRE ALARM WIRING
9. ALL CONDUITS AND BOXES TO BE LABELED AS PER CONTRACT ADMINISTRATOR/OWNERS INSTRUCTIONS.

CONT No 2023-4010
GWP No 4044-22-00

ELECTRICAL SHEET
FENELON FALLS MPY 92
ELECTRICAL LEGEND,
SYMBOLS AND NOTES

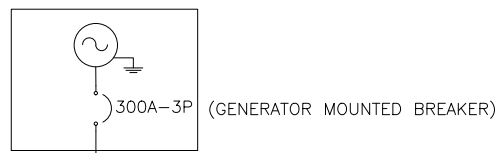


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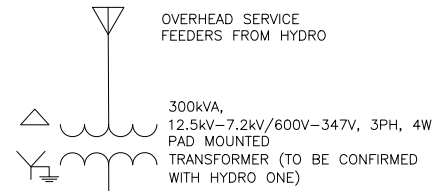
EXTERIOR OF VEHICLE MAINTENANCE GARAGE BUILDING

250 KVA 600V/347V
MOBILE EMERGENCY DIESEL GENERATOR
(PROVIDED BY OTHERS)



350A, 3 POLE, 4 WIRE GROUNDING WEATHER PROOF INLET C/W BACK BOX AND CLOSURE CAP FOR CONNECTION OF MOBILE DIESEL GENERATOR

SITE



4#600KCMIL+1#2AWG BOND, IN 103mm DIA. RIGID TYPE EB1 PVC CONDUIT CONCRETE ENCASED 1 RUNS OF 103mm DIA. RIGID TYPE EB1 PVC SPARE CONDUIT C/W PULL STRING CONCRETE ENCASED

GENERAL NOTE:

- A. COORDINATE WITH HYDRO ONE NETWORKS FOR INSTALLATION OF HYDRO METER CABINET. INSTALLATION SHALL FOLLOW HYDRO ONE STANDARDS AND METERING SPECIFICATIONS.
- B. COORDINATE WITH HYDRO ONE NETWORKS FOR SUPPLY AND INSTALLATION OF PAD MOUNTED TRANSFORMER.
- C. ALL CONDUCTORS SHALL BE COPPER, UNLESS INDICATED OTHERWISE.

CONT No 2023-4010
GWP No 4044-22-00

ELECTRICAL

SHEET
93

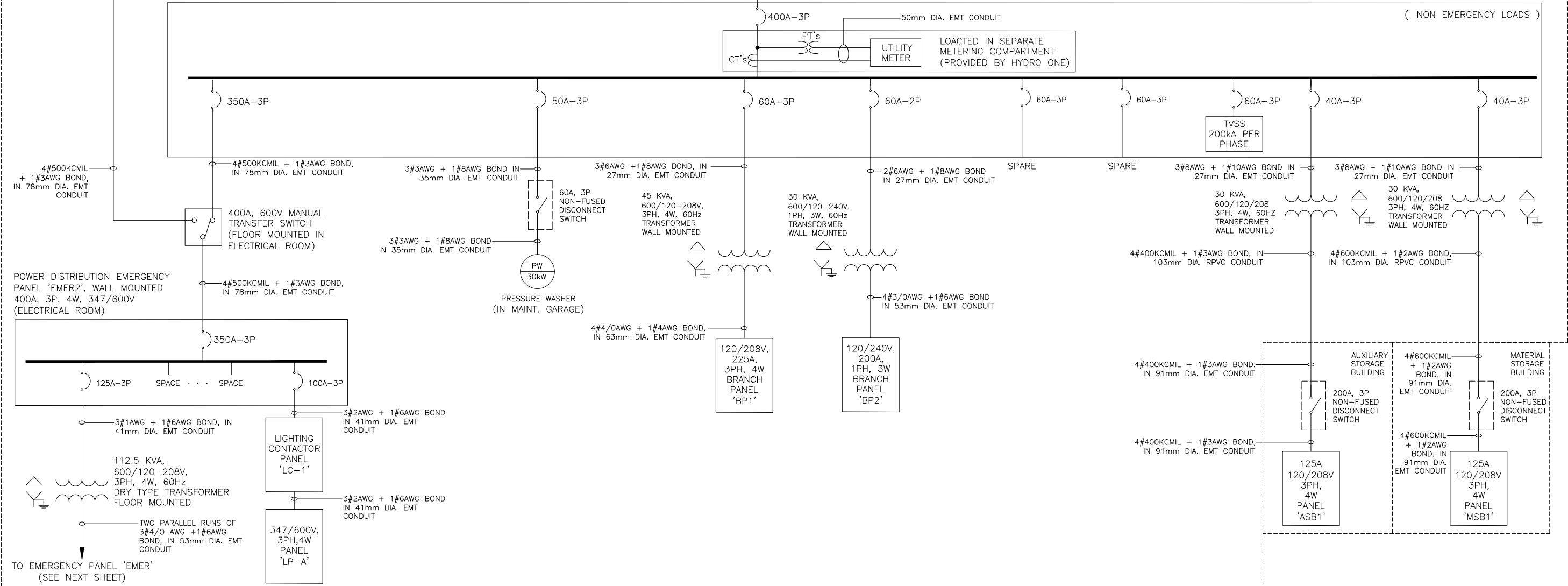
FENELON FALLS MPY
SINGLE LINE DIAGRAM - I



ELECTRICAL ROOM

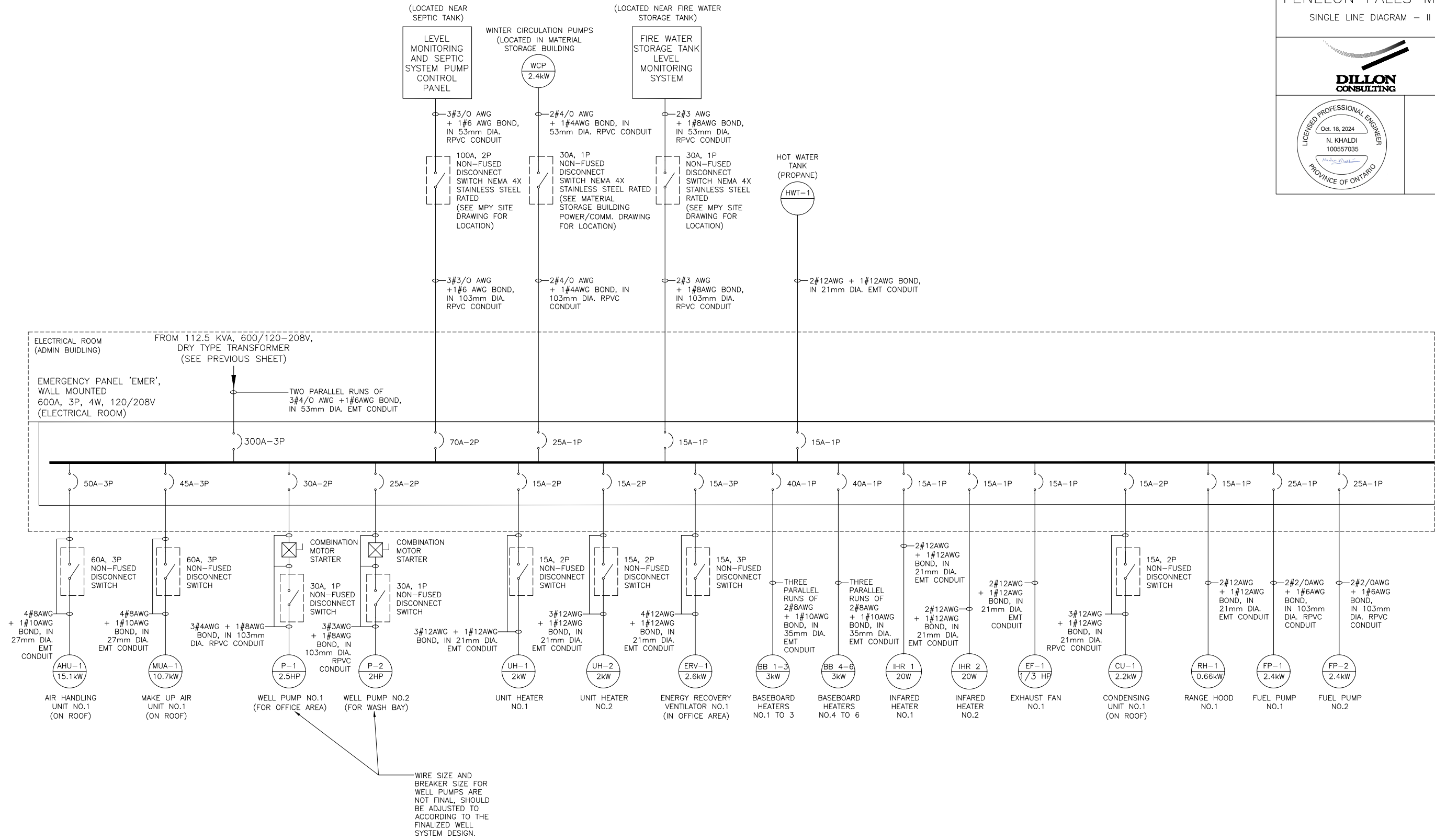
MAIN DISTRIBUTION PANEL 'MAIN', IN ELECTRICAL ROOM OFFICE BUILDING, WALL MOUNTED, 400A, 347/600V, 3 PH, 4W, 18KAIC

PROVIDE BRANCH BREAKERS AS REQUIRED
(NON EMERGENCY LOADS)



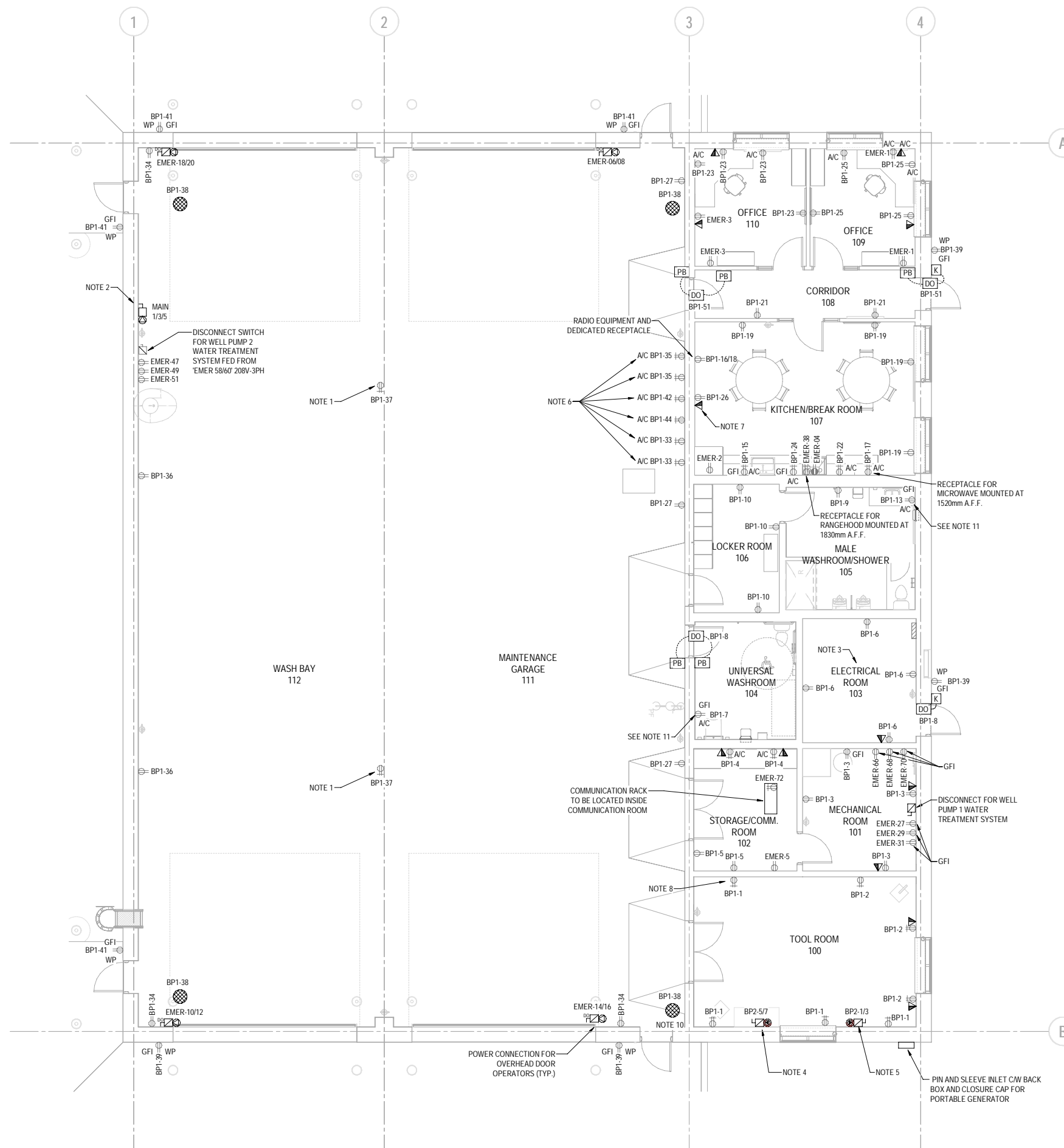
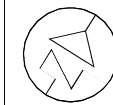
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NOTES:

1. DUPLEX RECEPTACLE (CEILING MOUNTED) FOR FUTURE DROP DOWN ELECTRICAL REEL TO BE DETERMINED ON SITE.
2. THREE PHASE DIRECT CONNECTION, 600V CW DISCONNECT SWITCH FOR PRESSURE WASHER EQUIPMENT TO BE SUPPLIED BY TENANT.
3. REFER TO ELECTRICAL ROOM LAYOUT DETAIL DRAWING FOR EQUIPMENT INFORMATION.
4. SINGLE PHASE DIRECT CONNECTION, 240V CW DISCONNECT SWITCH FOR AIR COMPRESSOR TO BE SUPPLIED BY TENANT.
5. SINGLE PHASE DIRECT CONNECTION, 240V CW DISCONNECT SWITCH FOR WELDING EQUIPMENT TO BE SUPPLIED BY TENANT.
6. RECEPTACLES TO BE MOUNTED OVER WORK BENCH (WORK BENCH TO BE SUPPLIED BY TENANT)
7. RECEPTACLE AND DATA OUTLET TO BE MOUNTED BEHIND WALL MOUNTED TELEVISION.
8. 120V, 20A 12 NOS. OUTLET WALL MOUNTED CSA APPROVED POWER BAR TO BE MOUNTED HERE (OVER COUNTER) FOR BATTERY CHARGING STATION FOR POWER TOOLS.
9. ALL RECEPTACLES, DATA OUTLETS AND CONDUITS LOCATED ON THE INTERIOR MASONRY WALLS OF THE TOOL ROOM 100, MECHANICAL ROOM 101, STORAGE/COMM ROOM 102, ELECTRICAL ROOM 103 AND LOCKER ROOM 106 SHALL BE EMBEDDED IN THE MASONRY WALL.
10. CONTRACTOR TO PROVIDE PA INTERCOM SYSTEM COMPLETE WITH CONNECTION TO INTERCOM SYSTEM INSIDE OFFICE AREA.
11. CONNECT THE WASHROOM RECEPTACLE CIRCUIT TO THE LV TRANSFORMER FOR CONTROL OF THE INFRARED CONTROLLED FAWCETS AND SHOWER.

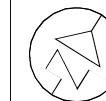
VEHICLE MAINTENANCE BUILDING - POWER AND COMMUNICATIONS PLAN

SCALE: 1 : 75

DRAWING NOT TO BE SCALED
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 CONT No 2023-4010
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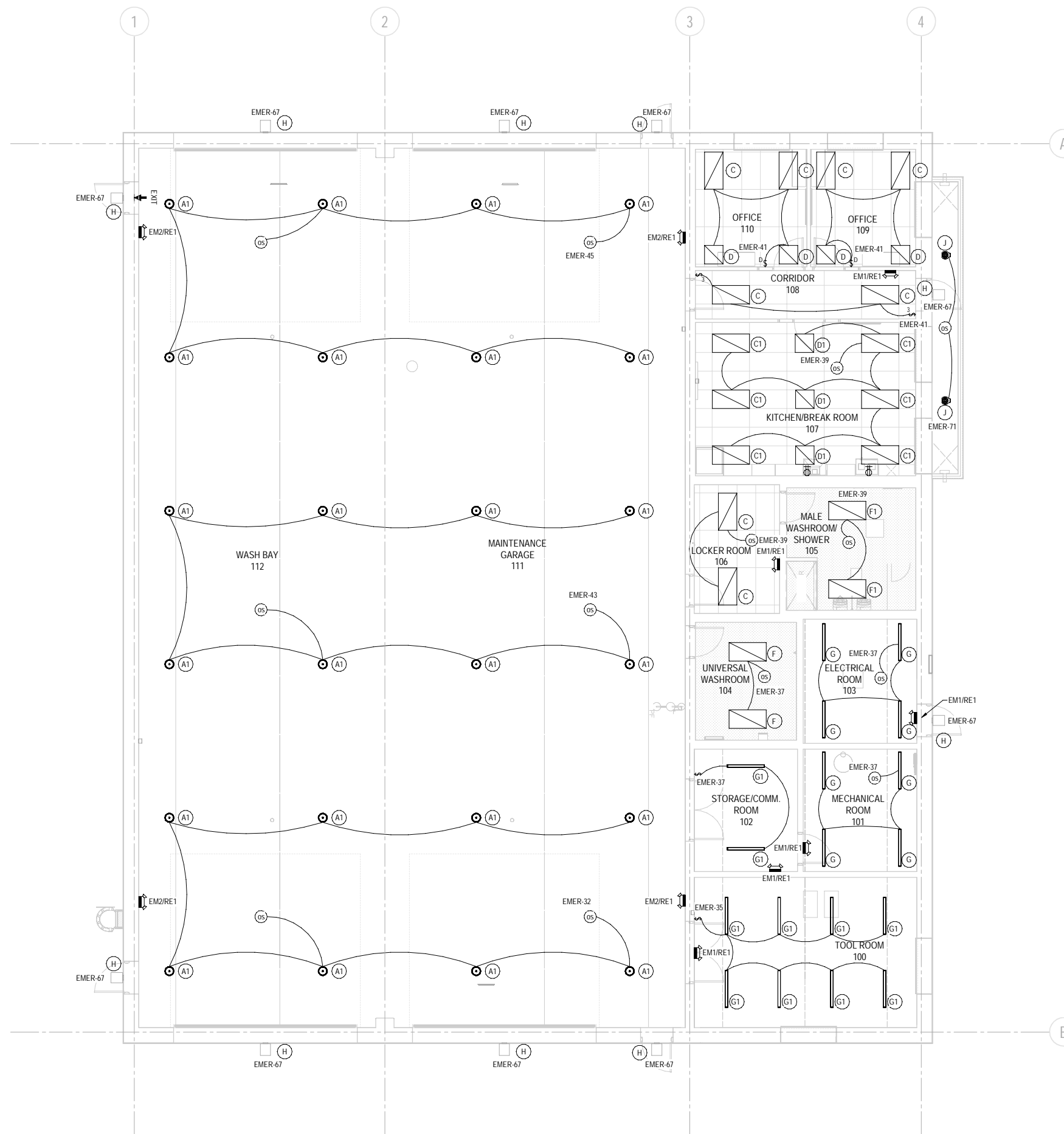


ELECTRICAL

SHEET

FENELON FALLS MPY
 VEHICLE MAINTENANCE BUILDING -
 LIGHTING PLAN

96

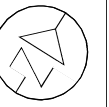


VEHICLE MAINTENANCE BUILDING - LIGHTING PLAN
 SCALE: 1 : 75

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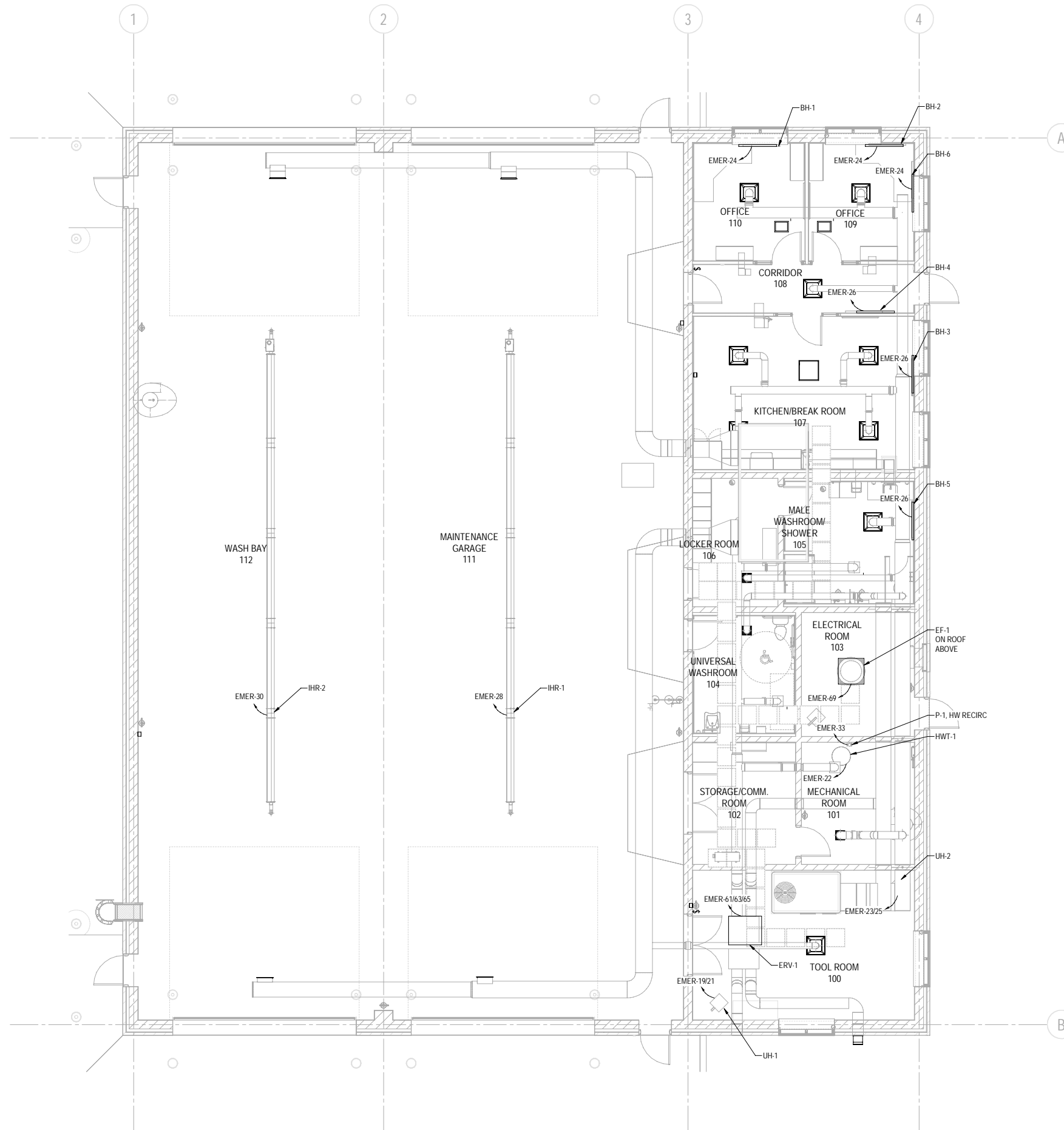


ELECTRICAL

SHEET

FENELON FALLS MPY
 VEHICLE MAINTENANCE BUILDING - HVAC
 POWER PLAN

97



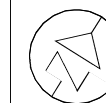
VEHICLE MAINTENANCE BUILDING - HVAC POWER PLAN
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ELECTRICAL

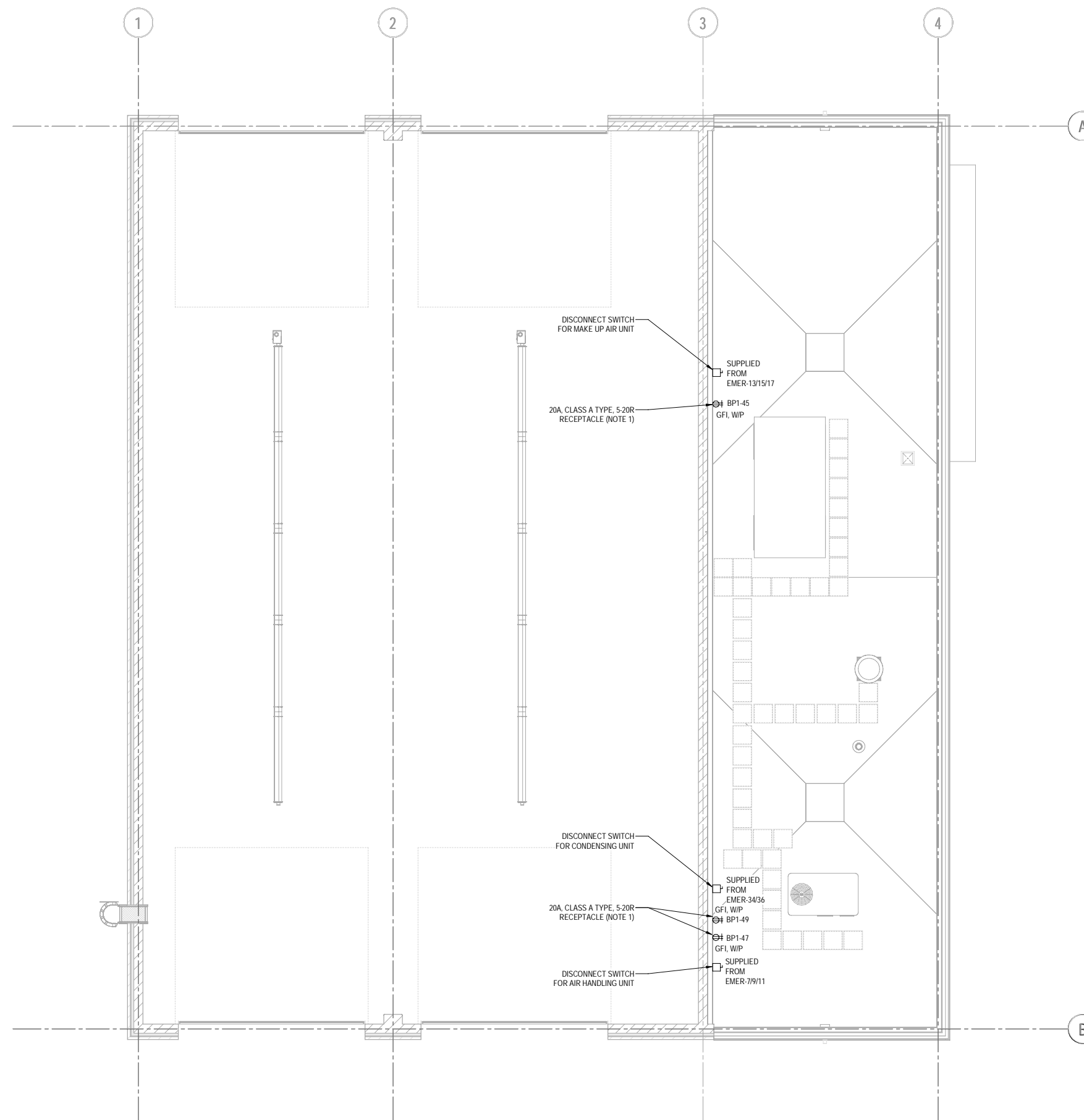
SHEET
 98

FENELON FALLS MPY
 VEHICLE MAINTENANCE BUILDING -
 POWER ROOF PLAN



NOTE(S):

1. ALL RECEPTACLES MOUNTED ON THE ROOF SHALL BE MOUNTED AT A HEIGHT OF 1067mm ABOVE FINISHED FLOOR AND WITHIN 7.5m FROM THE APPROPRIATE MECHANICAL EQUIPMENT AS PER CSA RULE 26-710.



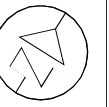
VEHICLE MAINTENANCE BUILDING - POWER ROOF PLAN

SCALE: NOT TO SCALE

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ELECTRICAL

SHEET

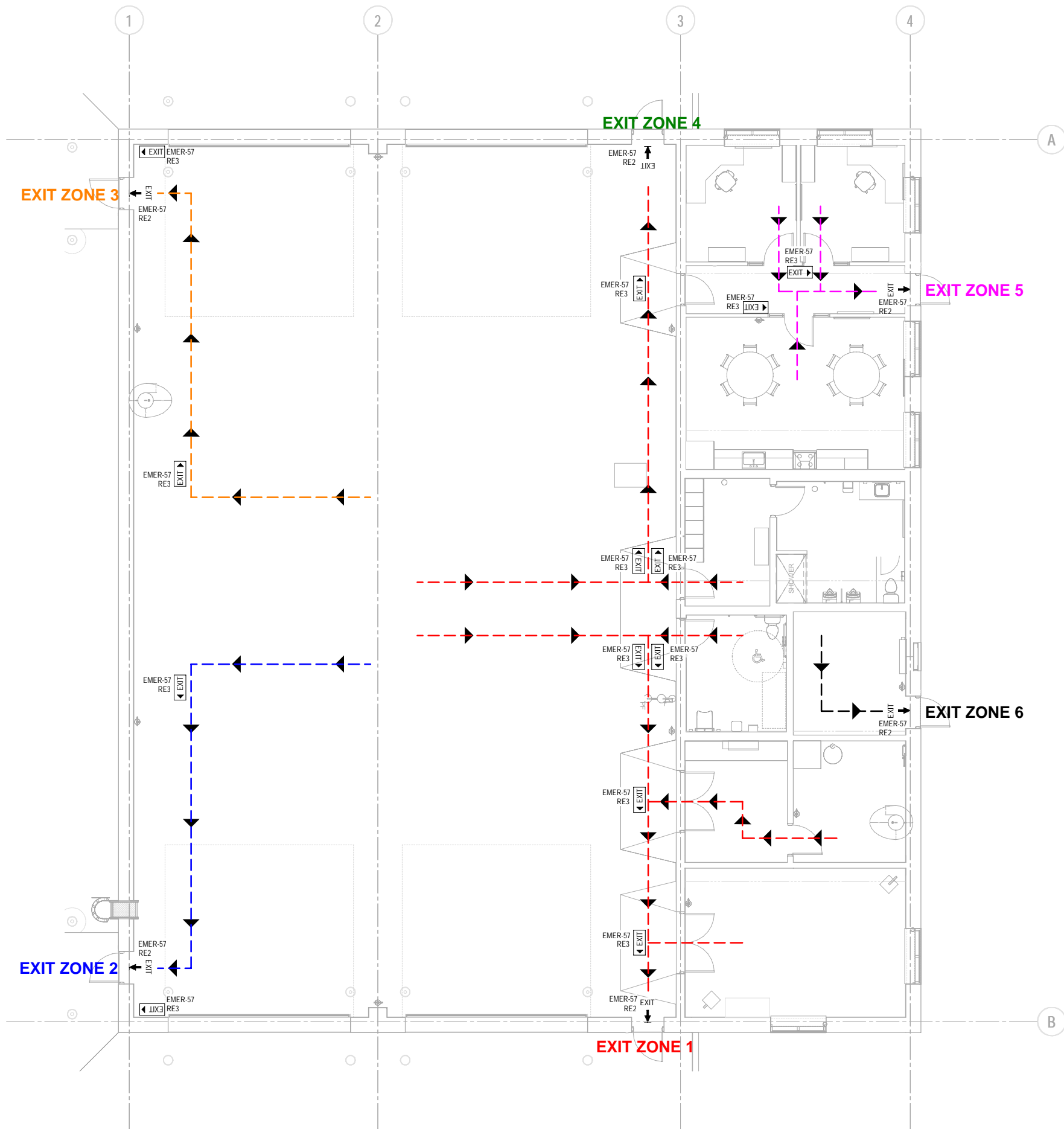
FENELON FALLS MPY
 VEHICLE MAINTENANCE BUILDING - EXIT
 SIGN LAYOUT

99



LEGEND:

- EXIT ZONE 1 PRIMARY EXIT ROUTE 1
- EXIT ZONE 2 PRIMARY EXIT ROUTE 2
- EXIT ZONE 3 PRIMARY EXIT ROUTE 3
- EXIT ZONE 4 PRIMARY EXIT ROUTE 4
- EXIT ZONE 5 PRIMARY EXIT ROUTE 5
- EXIT ZONE 6 PRIMARY EXIT ROUTE 6
- EXIT WALL MOUNTED EXIT SIGN
- EXIT WALL MOUNTED DIRECTIONAL EXIT SIGN

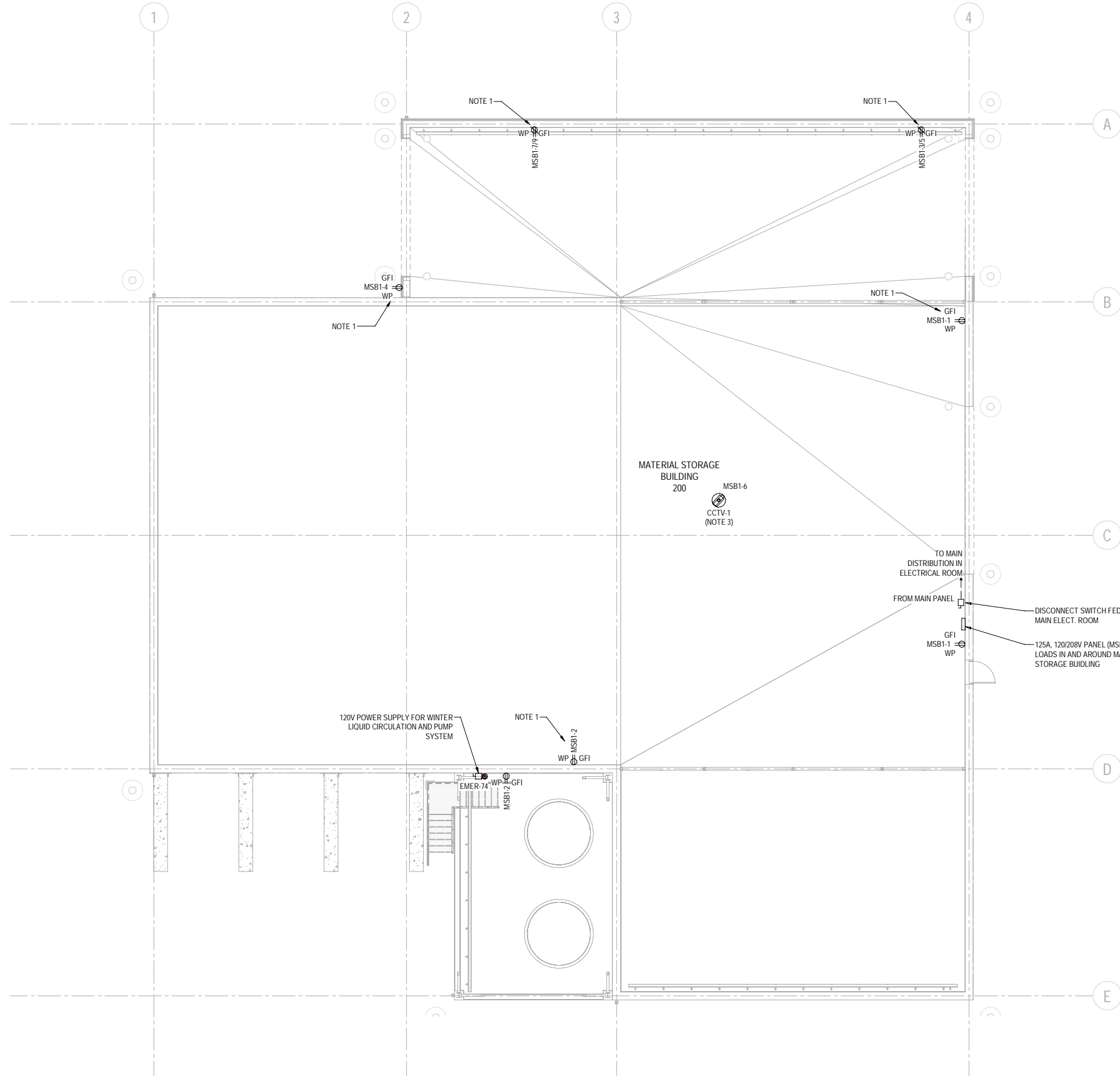
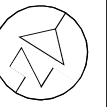


VEHICLE MAINTENANCE BUILDING - EXIT SIGN LAYOUT
 SCALE: 1 : 75

DRAWING NOT TO BE SCALED
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NOTES:

1. ELECTRICAL EQUIPMENT TO BE FED FROM EMERGENCY POWER PANEL. OUTLETS TO BE MOUNTED SIX FEET ABOVE FINISHED FLOOR.
2. ALL OUTDOOR RECEPTACLES TO HAVE LOCKABLE HEAVY DUTY WHEN IN USE COVERS.
3. CONTRACTOR TO PROVIDE 120V POWER SUPPLY AND NEMA 4X STAINLESS STEEL WEATHERPROOF BOX C/W HINGED LOCKABLE COVER. CAMERA AND ENCLOSURE BOX TO BE MOUNTED UNDER THE SOFFIT. CAMERA TO BE SUPPLIED AND INSTALLED BY MTO.

MATERIAL STORAGE BUILDING - POWER AND COMMUNICATIONS PLAN

SCALE: 1 : 100

DRAWING NOT TO BE SCALED
 100 mm ON ORIGINAL DRAWING

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PLATE No
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ELECTRICAL

SHEET

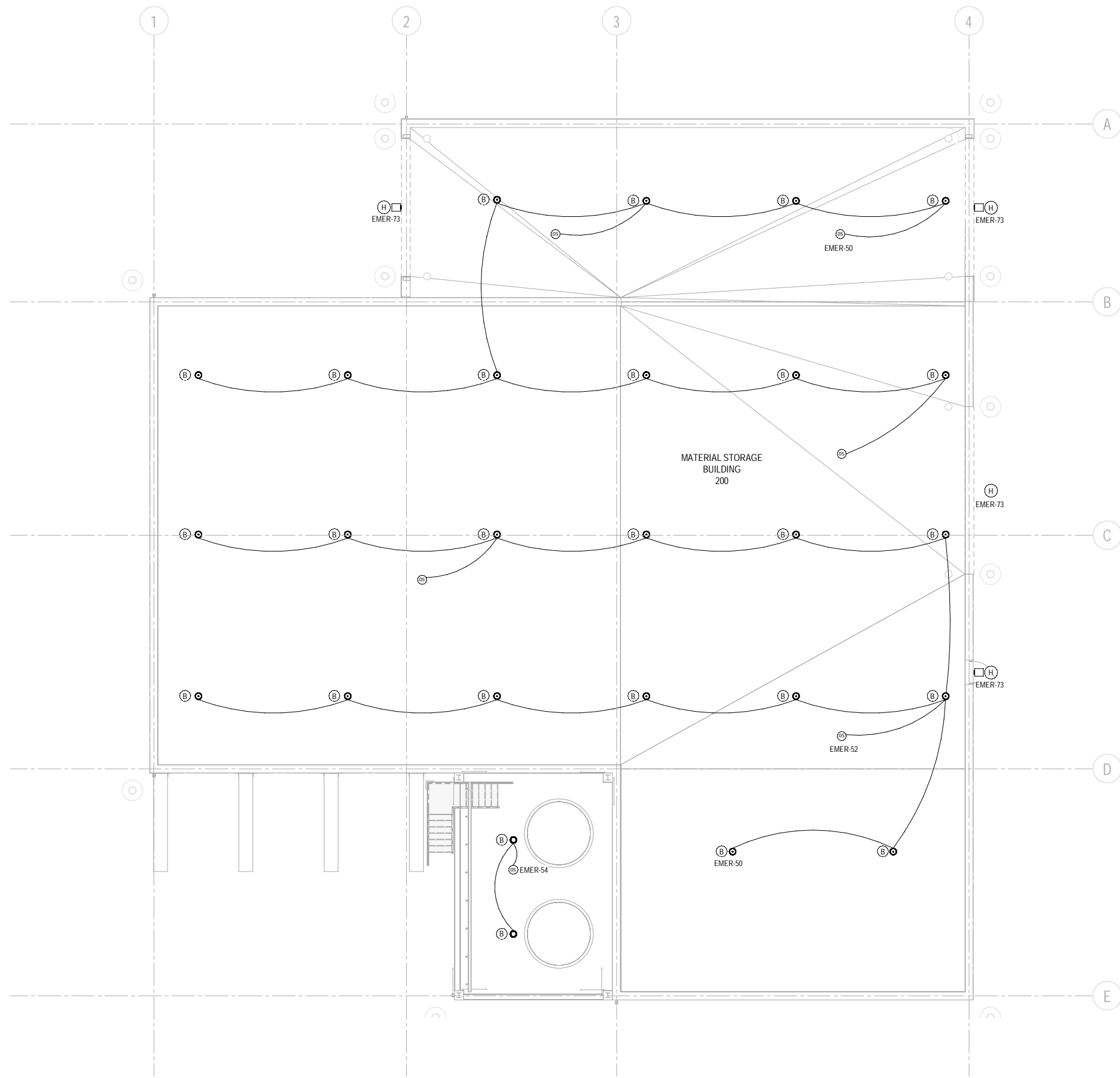
FENELON FALLS MPY
 MATERIAL STORAGE BUILDING - LIGHTING
 PLAN

101



NOTES:

1. FOR LIGHTING THEORY OF OPERATION REFER TO DETAIL 2 ON SHEET 105 LIGHTING SEQUENCE OF OPERATION TABLE.
2. REFER TO ELECTRICAL PANELBOARD SCHEDULE FOR LIGHTING FIXTURE AND EMERGENCY LIGHTING INFORMATION.



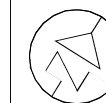
MATERIAL STORAGE BUILDING - LIGHTING PLAN

SCALE: 1 : 100

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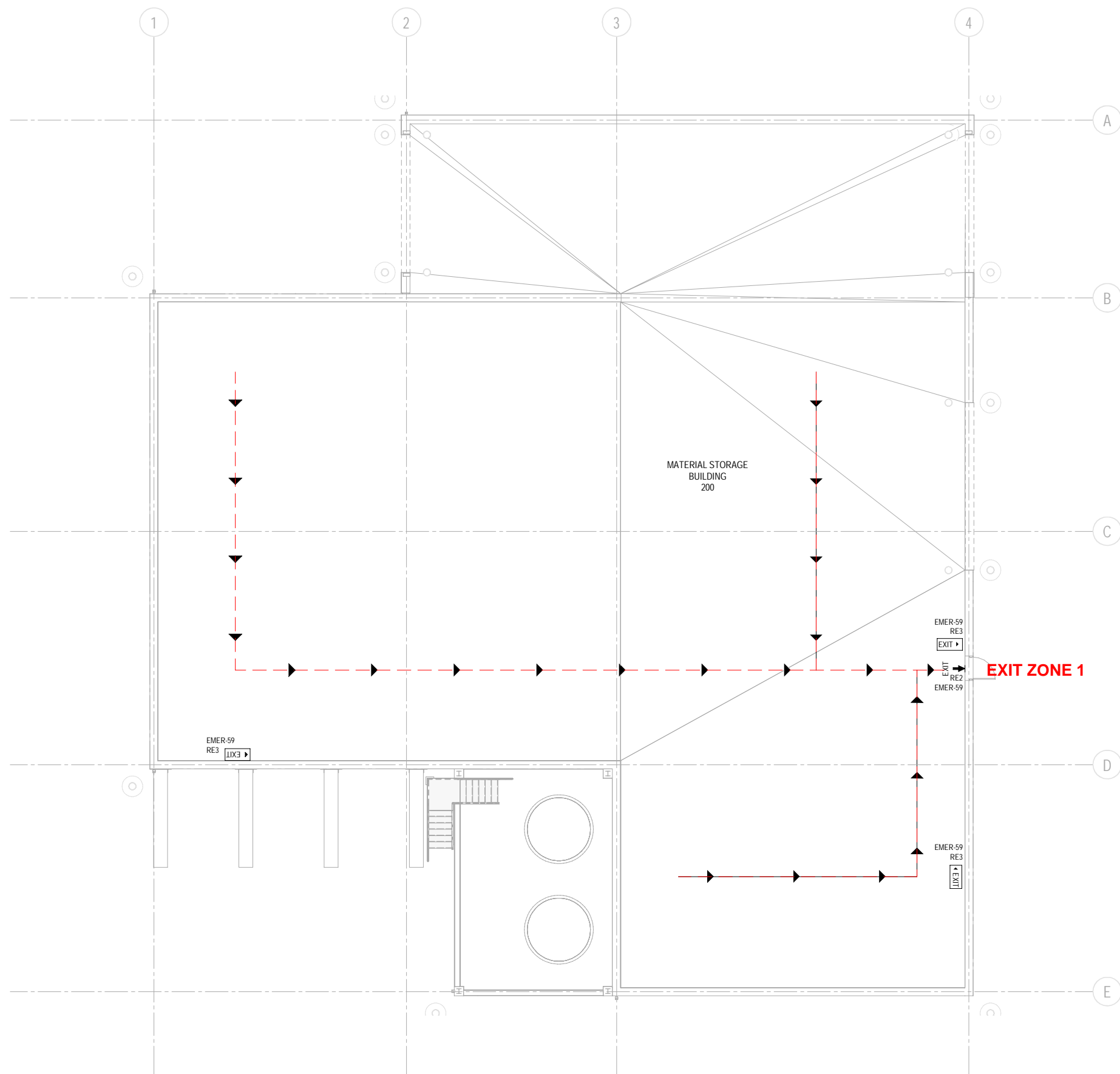
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PLATE No
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ELECTRICAL
FENELON FALLS MPY
 MATERIAL STORAGE BUILDING - EXIT SIGN
 LAYOUT

SHEET
 102



LEGEND:

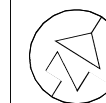
- PRIMARY EXIT ROUTE 1
- WALL MOUNTED EXIT SIGN
- WALL MOUNTED DIRECTIONAL EXIT SIGN

MATERIAL STORAGE BUILDING -EXIT SIGN LAYOUT
 SCALE: NOT TO SCALE

DRAWING NOT TO BE SCALED
 100 mm ON ORIGINAL DRAWING

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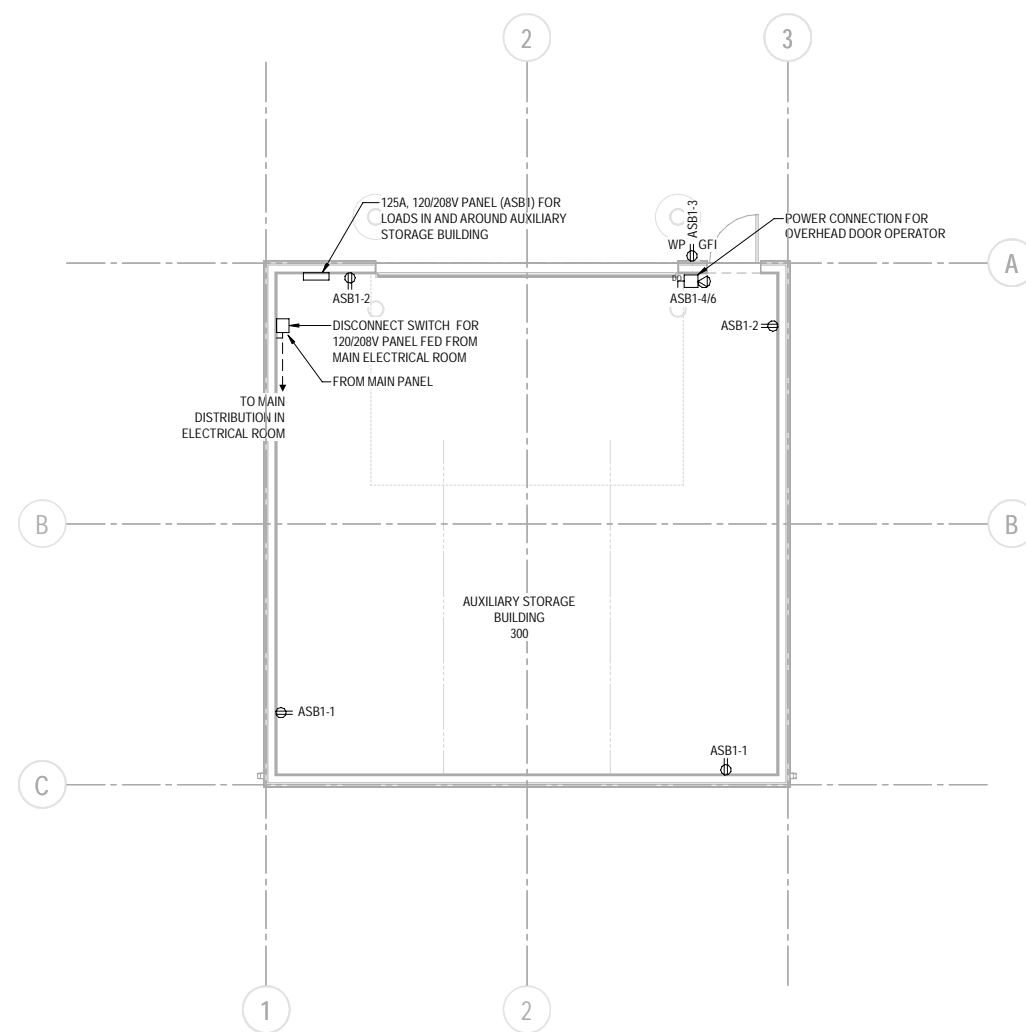
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 WP No 4044-22-00



ELECTRICAL

SHEET
 103

FENELON FALLS MPY
 AUXILIARY STORAGE BUILDING - POWER
 AND COMMUNICATIONS PLAN



NOTES:

1. ALL OUTDOOR RECEPTACLES TO HAVE LOCKABLE HEAVY DUTY WHEN IN USE COVERS.

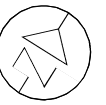
AUXILIARY STORAGE BUILDING - POWER AND COMMUNICATIONS PLAN

SCALE: 1 : 75

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 100 mm ON ORIGINAL DRAWING

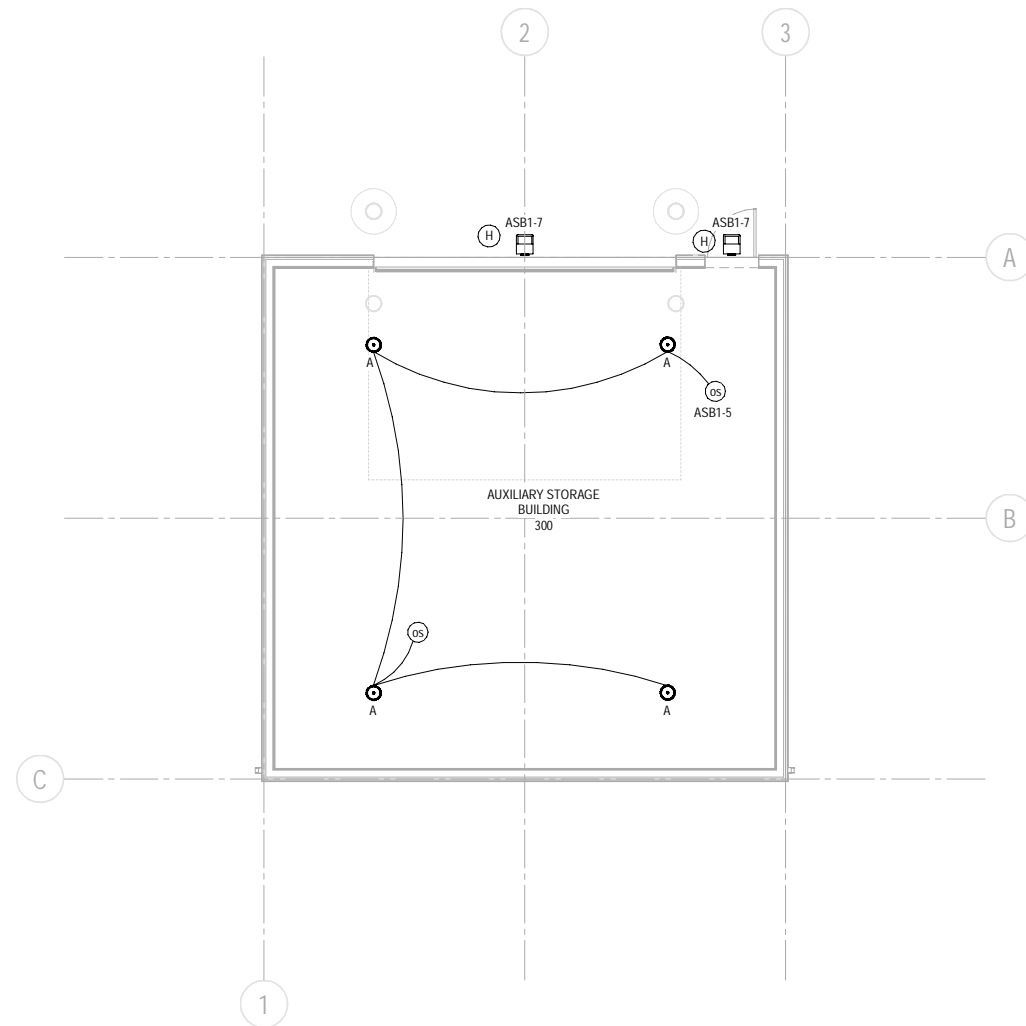
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PLATE No
 CONT No 2023-4010
 WP No 4044-22-00



ELECTRICAL
FENELON FALLS MPY
 AUXILIARY STORAGE BUILDING - LIGHTING
 PLAN

SHEET
 104



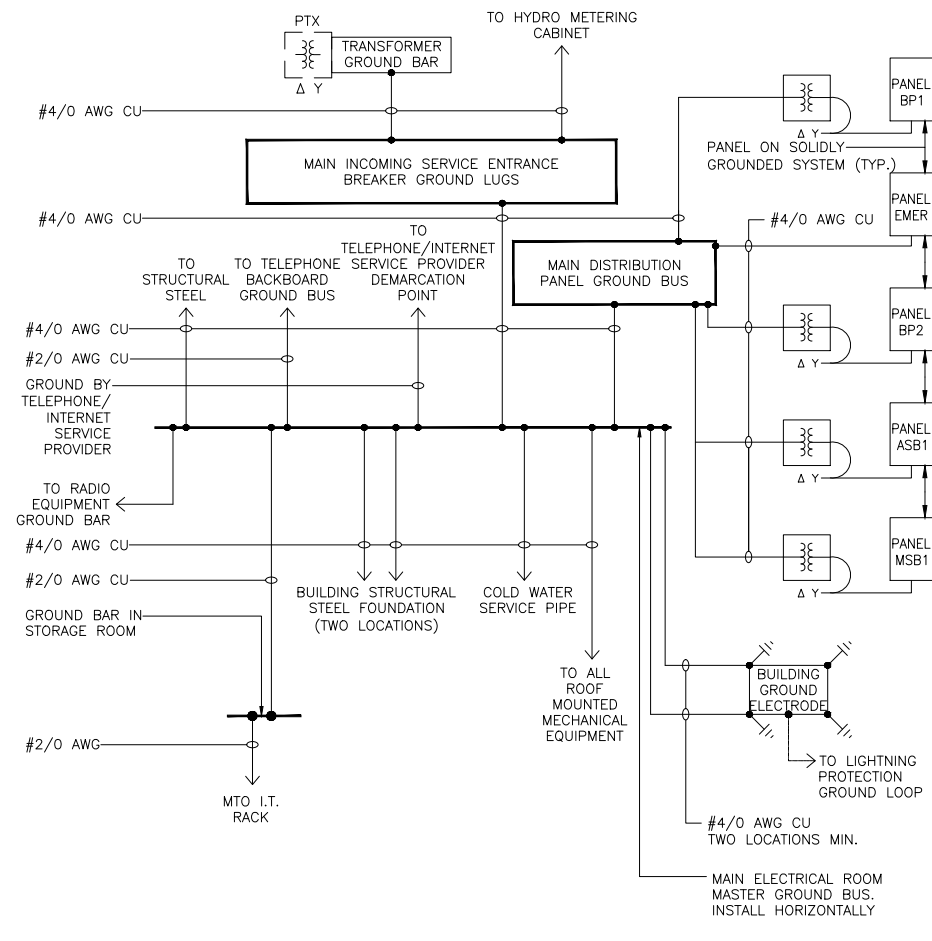
AUXILIARY STORAGE BUILDING - LIGHTING PLAN
 SCALE: 1 : 75

NOTES:

1. FOR LIGHTING THEORY OF OPERATION REFER TO DETAIL 2 ON SHEET 105 LIGHTING SEQUENCE OF OPERATION TABLE.
2. REFER TO ELECTRICAL PANELBOARD SCHEDULE FOR LIGHTING FIXTURE AND EMERGENCY LIGHTING INFORMATION.

DRAWING NOT TO BE SCALED
 100 mm ON ORIGINAL DRAWING

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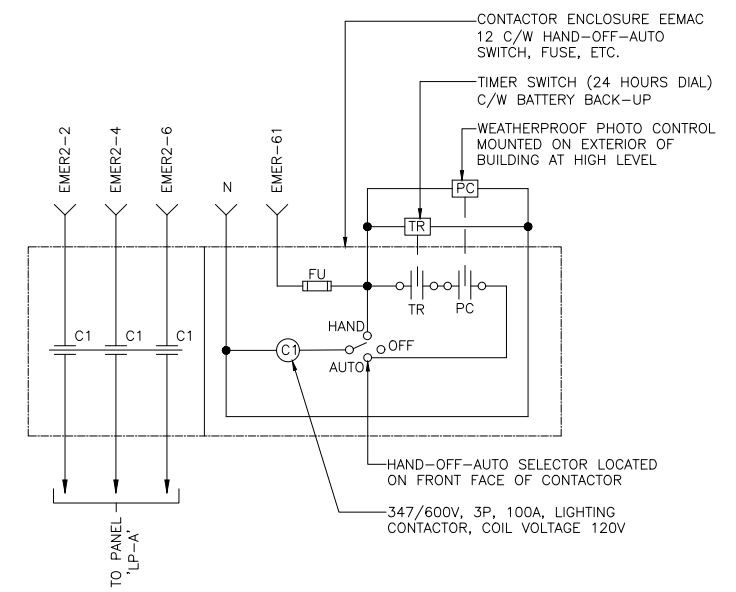


1 GROUNDING AND BONDING BLOCK DIAGRAM

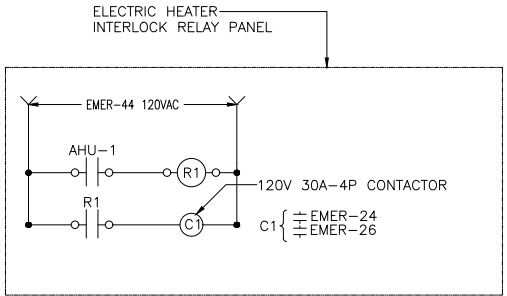
LIGHTING SEQUENCE OF OPERATION

ROOM NAME	LOCAL WALL STATION	OCCUPANCY SENSOR	OCCUPANCY SENSOR TIME OUT (MIN)	SEQUENCE OF OPERATIONS
TOOL ROOM 100	Y	N	N/A	MANUAL ON, MANUAL OFF.
MECHANICAL ROOM 101	N	Y	15	UPON DETECTION OF OCCUPANCY, LIGHTS TURN ON. WHEN THERE IS NO OCCUPANCY, LIGHTS TURN OFF.
STORAGE/COMM. ROOM 102	Y	N	N/A	MANUAL ON, MANUAL OFF.
ELECTRICAL ROOM 103	Y	N	N/A	MANUAL ON, MANUAL OFF.
UNIVERSAL WASHROOM 104	N	Y	15	UPON DETECTION OF OCCUPANCY, LIGHTS TURN ON. WHEN THERE IS NO OCCUPANCY, LIGHTS TURN OFF.
MALE WASHROOM/SHOWER ROOM 105	N	Y	15	UPON DETECTION OF OCCUPANCY, LIGHTS TURN ON. WHEN THERE IS NO OCCUPANCY, LIGHTS TURN OFF.
LOCKER ROOM 106	N	Y	15	UPON DETECTION OF OCCUPANCY, LIGHTS TURN ON. WHEN THERE IS NO OCCUPANCY, LIGHTS TURN OFF.
KITCHEN/BREAKROOM 107	N	Y	15	UPON DETECTION OF OCCUPANCY, LIGHTS TURN ON. WHEN THERE IS NO OCCUPANCY, LIGHTS TURN OFF.
CORRIDOR 108	Y	N	N/A	MANUAL ON, MANUAL OFF WITH THREE WAY SWITCH.
OFFICE 109	Y	N	N/A	MANUAL ON, MANUAL OFF WITH DIMMABLE SWITCHES AND FIXTURES.
OFFICE 110	Y	N	N/A	MANUAL ON, MANUAL OFF WITH DIMMABLE SWITCHES AND FIXTURES.
MAINTENANCE GARAGE 111/ WASH BAY 112	N	Y	15	UPON DETECTION OF OCCUPANCY, LIGHTS TURN ON. WHEN THERE IS NO OCCUPANCY, LIGHTS TURN OFF. ALL OCCUPANCY SENSORS TO BE WIRED IN PARALLEL SEE OCCUPANCY SENSOR PARALLEL WIRING SCHEMATIC (DETAIL 5).
MATERIAL STORAGE BUILDING 200	N	Y	15	UPON DETECTION OF OCCUPANCY, LIGHTS TURN ON. WHEN THERE IS NO OCCUPANCY, LIGHTS TURN OFF. ALL OCCUPANCY SENSORS TO BE WIRED IN PARALLEL SEE OCCUPANCY SENSOR PARALLEL WIRING SCHEMATIC (DETAIL 5).
MATERIAL STORAGE BUILDING 200 WINTER CIRCULATION PUMP AREA	N	Y	15	UPON DETECTION OF OCCUPANCY, LIGHTS TURN ON. WHEN THERE IS NO OCCUPANCY, LIGHTS TURN OFF.
AUXILIARY STORAGE BUILDING 200	N	Y	15	UPON DETECTION OF OCCUPANCY, LIGHTS TURN ON. WHEN THERE IS NO OCCUPANCY, LIGHTS TURN OFF. ALL OCCUPANCY SENSORS TO BE WIRED IN PARALLEL SEE OCCUPANCY SENSOR PARALLEL WIRING SCHEMATIC (DETAIL 5).
EXTERIOR WALL PACK LIGHTS: VEHICLE MAINTENANCE BUILDING, MATERIAL STORAGE BUILDING 200 AND AUXILIARY STORAGE BUILDING 300	-	-	-	CONTROLLED BY PHOTOCELL (DUSK TO DAWN).

2 LIGHTING SEQUENCE OF OPERATION TABLE

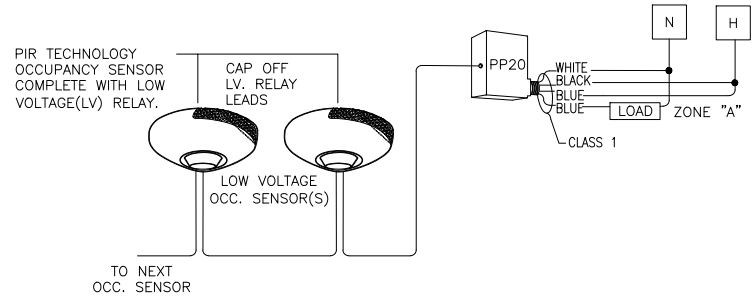


3 OUTDOOR LIGHTING CONTROL SCHEMATIC PANEL 'LC-1'



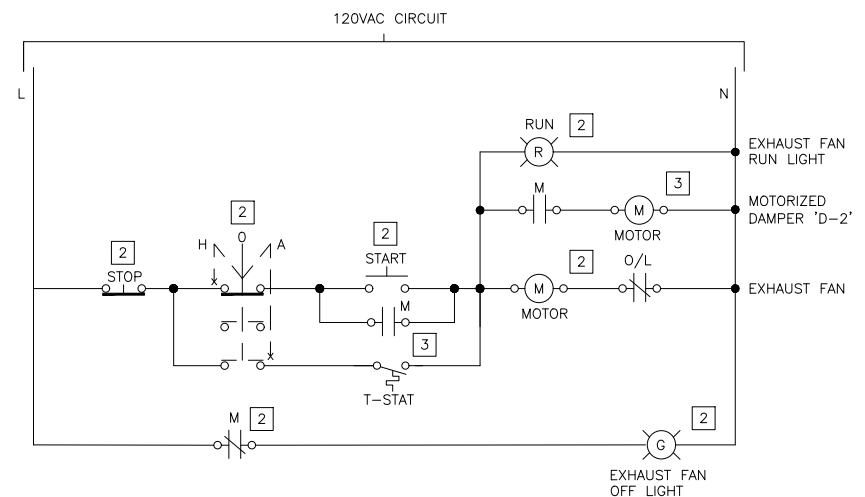
- NOTES:**
- COORDINATE WITH MECHANICAL DIVISION FOR INTERCONNECTION WIRING BETWEEN AIR HANDLING UNITS AHU-1 CONTROL PANEL AND ELECTRIC HEATER RELAY PANEL.
 - THIS CONTRACTOR SHALL SUPPLY AND INSTALL COMPLETE WIRING AND CONDUIT SYSTEMS FOR INTERLOCKING ELECTRIC BASEBOARD HEATERS AND THE AIR HANDLING UNIT.
 - PROVIDE SIGNAGE ON FRONT COVER OF RELAY PANEL INDICATING 'WARNING, TWO(2) SOURCES OF POWER - 120V & 600V'.

4 ELECTRIC HEATER INTERLOCK BLOCK DIAGRAM



- NOTES:**
- OCCUPANCY SENSORS SHALL BE WIRED IN PARALLEL AS SHOWN FOR ROOMS WITH MULTIPLE OCCUPANCY SENSORS.

5 OCCUPANCY SENSOR PARALLEL WIRING SCHEMATIC

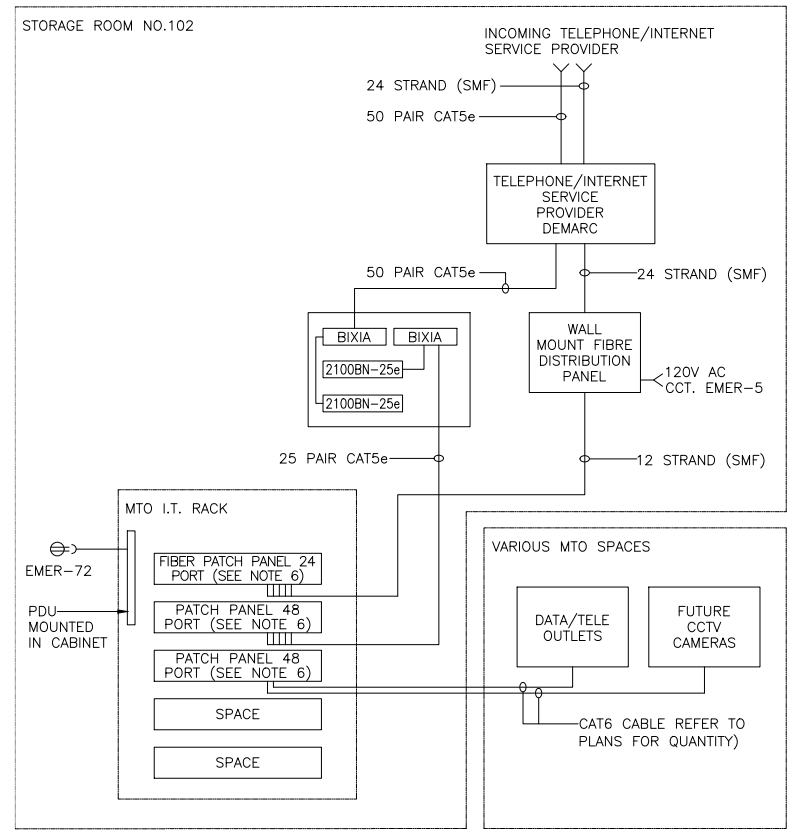
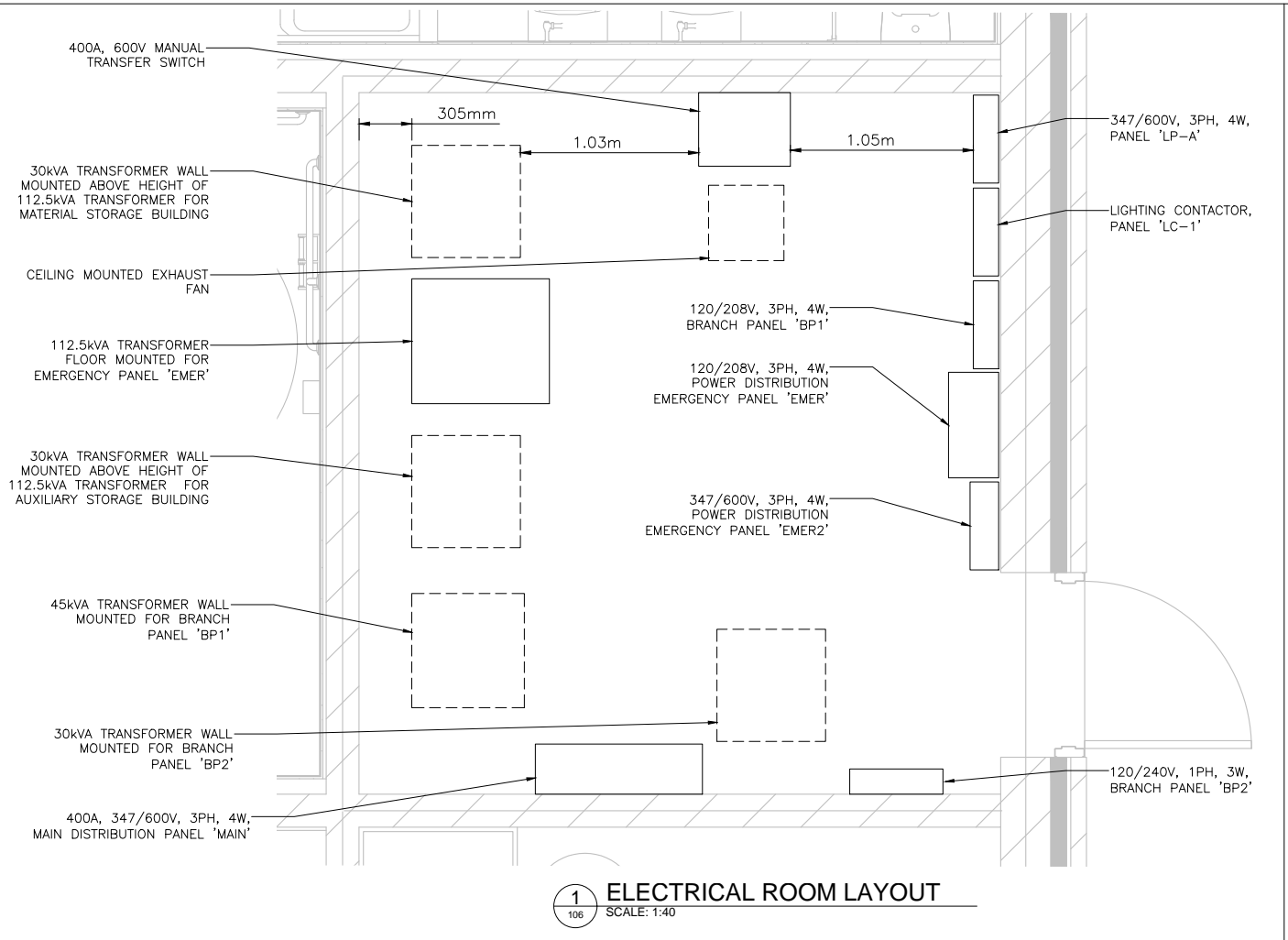


- DENOTES - LOCATED IN NEAR MOTOR.
- DENOTES - LOCATED IN MOTOR STARTER.
- DENOTES - LOCATED IN FIELD.

6 EXHAUST FAN 'EF-1' CONTROL SCHEMATIC

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CONT No 2023-4010
GWP No 4044-22-00

ELECTRICAL
FENELON FALLS MPY
ELECTRICAL DIAGRAMS AND DETAILS

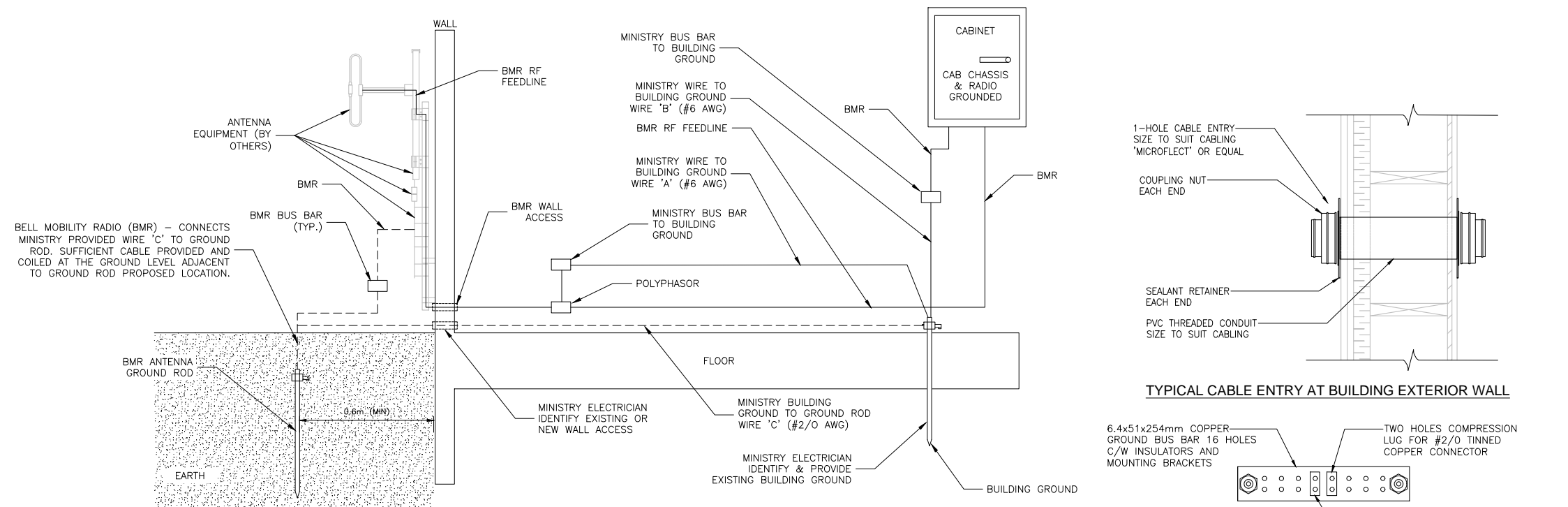
SHEET
106



- NOTES:**
- ALL NETWORK SWITCHES SHALL BE PROVIDED BY THE TENANT.
 - ALL CROSS-CONNECTIONS AND PATCHING TO BE COMPLETED BY TENANT I.T. DEPARTMENT
 - THIS CONTRACTOR SHALL COIL 6m OF CAT6 CABLE IN EACH I.T. RACK.
 - CIRCUIT PROTECTOR TO BE 2100BN-25e BY CIRCA TELECOM C/W 5-PIN SURGE PROTECTION MODULE (4B6S-300E)
 - CAT6 (BLUE) AND MMF-LC PATCH CORDS SHALL BE SUPPLIED IN THE EQUIVALENT QUANTITIES AND LENGTHS OF PATCH PANEL PORTS TO COMPLETE THE DATA CABLING SYSTEM.
 - CONTRACTOR SHALL PROVIDE ALL CAT6, CAT5e AND FIBRE-OPTIC PATCH CORDS, MINIMUM QUANTITIES/TYPE:
 - QUANTITY 6 25FT MMF PATCH CORD, DUAL LC-DUAL LC.
 - QUANTITY 4 6FT MMF PATCH CORD, DUAL LC-DUAL LC.
 - QUANTITY 10 3FT CAT6 PATCH CORD, BLUE.
 - QUANTITY 10 7FT CAT6 PATCH CORD, BLUE.
 - QUANTITY 4 20FT CAT6 PATCH CORD, BLUE.
 - QUANTITY 6 25FT SMF PATCH CORD, DUAL LC-DUAL LC.
 - QUANTITY 4 6FT SMF PATCH CORD, DUAL LC-DUAL LC.

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LMRN RADIO AND ANTENNA

1 ANTENNA SYSTEM DETAILS
107

EXTERIOR GROUND BUS BAR

NOTES:

1. COORDINATE WITH RADIO VENDOR FOR EQUIPMENT LOCATIONS AND REQUIREMENTS.
2. INSTALLATION SHALL BE IN CONFORMANCE WITH BELL CANADA.
3. TINNED COPPER SHALL BE SEMI HARD, 28 STRAND, APPROX. WEIGHT 375KG/1000m.
4. USE BIMETALLIC COUPLINGS FOR CONNECTION OF ELEMENTS HAVING DIFFERENT METALLIC COMPOSITIONS. APPLY A PASTE-LIKE ANTIOXIDANT TYPE 'MONOX' BEFORE THE CONNECTION AND IN BETWEEN EACH NOT TINNED PIECE.
5. TYPICAL ANTENNA INSTALLATION AND NEW GROUND ROD LESS OR EQUAL TO TWO STORIES.

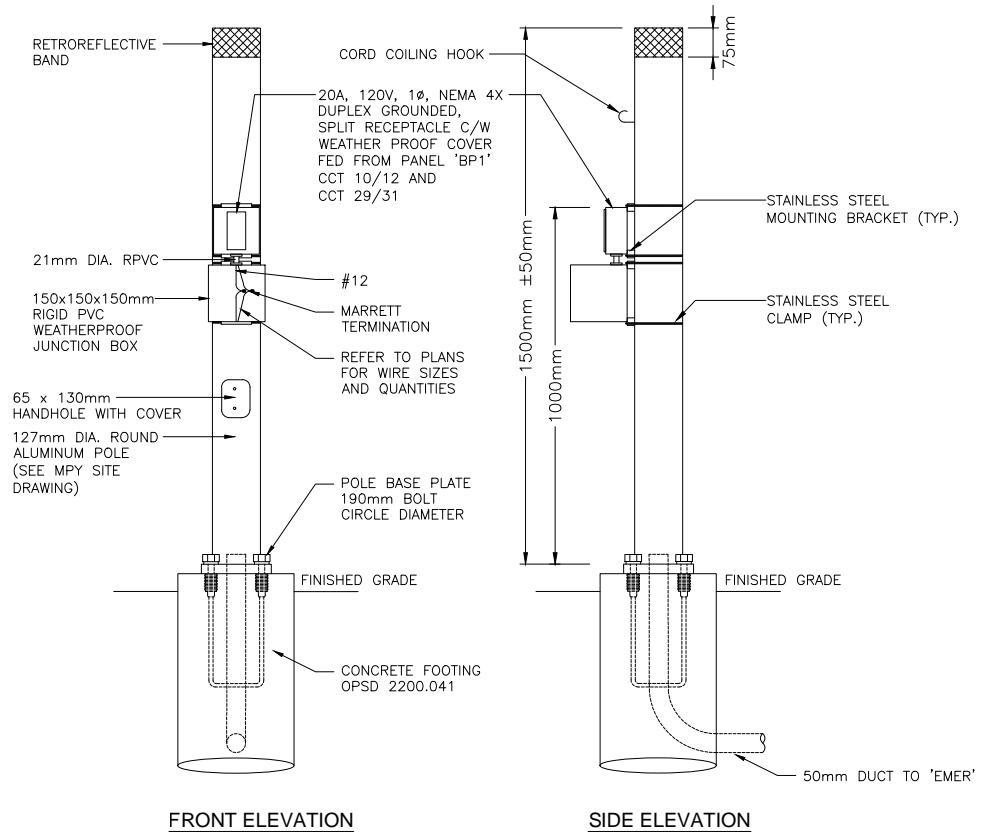
BAS RADIO INSTALLATION REQUIREMENTS:

1. THE FOLLOWING REQUIREMENTS ARE FOR A PATROL YARD BUILDING REQUIRING ONE (1) FIXED BAS RADIO INSTALLATION ONLY.
2. THE MTO RADIO GROUP WILL COORDINATE WITH THE GOVERNMENT MOBILE COMMUNICATION BRANCH (GMCB, PART OF THE MINISTRY OF THE SOLICITOR GENERAL) AND BELL MOBILITY RADIO (BMR) INSTALLERS TO:
 - A) PROCURE THE MOBILE RADIO AND ACCESSORIES (MIC, RADIO CABLING AND POWER SUPPLY)
 - B) PROVIDE THE ANTENNA AND ANTENNA CABLES (INCLUDING A SURGE PROTECTOR)
 - C) INSTALL THE ANTENNA, CABLE AND RADIO
3. THE BUILDING OCCUPANT:
 - A) MUST SPECIFY A DESIGNATED SPACE FOR THE RADIO EQUIPMENT.
 - B) MUST PROVIDE A FLAT SURFACE FOR THE RADIO EQUIPMENT (SHELF/COUNTER/DESK)
 - C) IS RESPONSIBLE FOR ALL AUDIO REQUIREMENTS (AMPLIFIER AND SPEAKER SYSTEMS).
 - D) MUST COMPLY TO THE REQUIREMENTS BELOW.
4. ANTENNA MAST AND MOUNT REQUIREMENTS
 - A) THE DESIGN OF THE ANTENNA MAST AND MOUNT MUST:
 - MEET BUILDING CODE
 - MEET THE LATEST CSA S37 CODE OR NATION BUILDING CODE OF CANADA (NBC) FOR ANTENNA LOADING AND CLIMATIC LOADING
 - MEET THE LATEST MOTOROLA R56 STANDARDS AND GUIDELINES FOR COMMUNICATION SITES
 - MEET THE REQUIREMENTS TO HOLD A SINCLAIR SD210-SF2P4SNM ANTENNA AND CONSIDER THE ANTENNA WEIGHT FOR LOADING CALCULATIONS.
 - BE INSTALLED SO THAT THE BOTTOM OF THE ANTENNA LOBE IS 2.6 METERS ABOVE THE ROOF LINE OR BUILDING HIGHEST POINT (TO MEET HEALTH CANADA GUIDELINES FOR RF EXPOSURE (SAFETY CODE 6)).
5. CABLE ENTRY POINT AND CABLE RUN REQUIREMENTS
 - A) THIS CABLE ENTRY POINT MUST BE WEATHER AND INSECT PROOF.
 - B) THE CABLE ENTRY POINT MUST BE AT LEAST 3 INCHES IN DIAMETER FOR RF COAXIAL CABLE AND GROUND WIRE.
 - C) ANY CONDUIT TO THE RADIO LOCATION FROM ENTRY POINT SHOULD AVOID ANY RIGHT ANGLE AND UTILIZE SWEEPING RADIUS TO ENSURE NO COAXIAL KINKS AND CONTAIN A PULL STRING.

6. ELECTRICAL REQUIREMENTS
 - A) AN ISOLATED 15 AMP 2 OUTLET SOCKET MUST BE SUPPLIED AND LABELED AT THE BREAKER PANEL AS CLOSE TO THE IDENTIFIED RADIO LOCATION AS POSSIBLE.
7. GROUNDING REQUIREMENTS
 - A) TWO ISOLATED GROUNDING BUS BARS ARE REQUIRED ON THE EXTERIOR OF THE BUILDING (NEAR THE CABLE ENTRY POINT) AND ON THE INTERIOR (NEAR THE CABLE ENTRY POINT OR CLOSE TO THE RADIO LOCATION).
 - B) ALL GROUNDING BUS BARS SHALL BE DESIGNED FOR THE PURPOSE OF GROUNDING AND SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) (SEE TIA-607-C).
 - C) EXTERIOR GROUNDING
 - GROUND ROD INSTALLED NEAR ANTENNA ON THE EXTERIOR OF THE BUILDING AND TIED TO THE BUILDING GROUND, AT OR BELOW GROUND LEVEL
 - GROUNDING CONDUCTOR FROM GROUND ROD CONNECTED TO ANTENNA MAST ISOLATED GROUND BUS BAR (THE ISOLATED BUS BAR SHOULD HAVE AT LEAST 6 POSTS)
 - D) INTERIOR GROUNDING
 - RADIO EQUIPMENT TO BE GROUNDED TO AN INTERNAL ISOLATED GROUND BUS BAR THAT IS CONNECTED TO BUILDING GROUND (THE ISOLATED BUS BAR SHOULD HAVE AT LEAST 6 POSTS)
 - AN INTERNAL GROUNDING POINT NEAR THE RF CABLE ENTRY POINT IS REQUIRED FOR CONNECTION TO A SURGE PROTECTOR THAT WILL BE INSTALLED BY MTO RADIO GROUP (VIA GMCB/BMR)
 - E) ALL GROUNDING SYSTEM DESIGNS MUST ALIGN WITH THE LATEST MOTOROLA R56 GROUNDING REQUIREMENTS AND, AT A MINIMUM, SATISFY ALL APPLICABLE REQUIREMENTS OF THE ONTARIO ELECTRICAL SAFETY CODES.

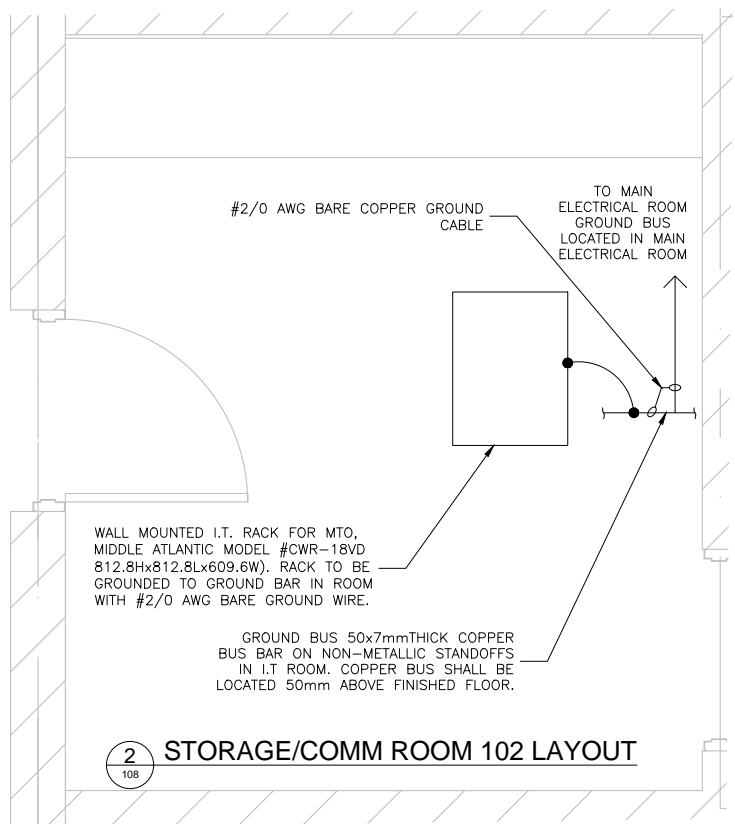
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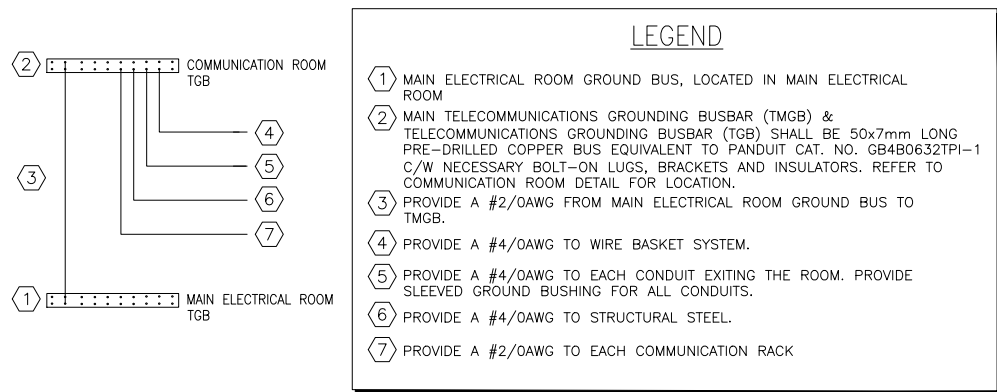


FRONT ELEVATION SIDE ELEVATION

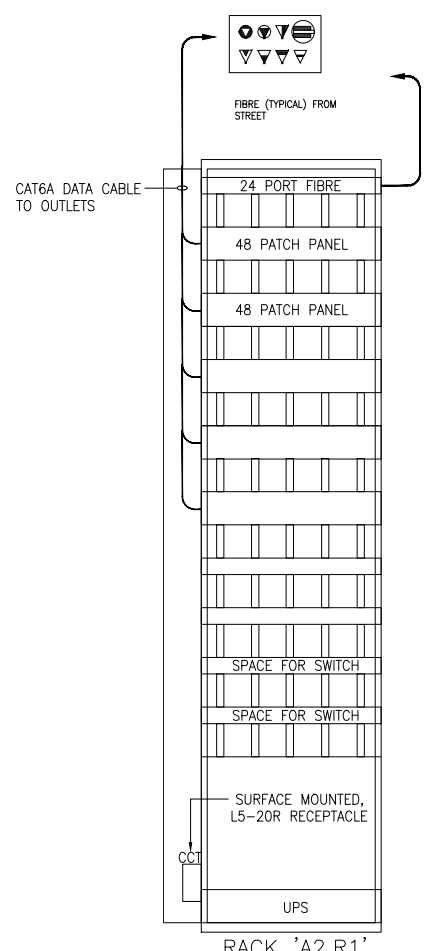
1 108 DETAIL: BLOCK HEATER POST



2 108 STORAGE/COMM ROOM 102 LAYOUT



3 108 RISER - COMMUNICATION BONDING FOR B&C N.T.S.



4 108 TYPICAL TELECOM ROOMS RACK ELEVATIONS

- CATEGORY 6A COPPER EQUIPMENT:**
- ALL TELEPHONE, VOICE, AND DATA PATCH PANELS SHALL BE EIA/TIA-568A CATEGORY 6A C/W RJ45 JACKS, MOUNTING BRACKETS, AND ALL ASSOCIATED HARDWARE.
 - PATCH PANELS SHALL BE EQUIVALENT TO PANDUIT CAT# CPPLA48WBLY PATCH PANEL
 - TELEPHONE JACKS SHALL BE EQUIVALENT TO PANDUIT CAT. NO. CJ6X88TGVL (VIOLET) MINI COM RJ-45 JACKS.
 - VOICE JACKS SHALL BE EQUIVALENT TO PANDUIT CAT. NO. CJ6X88TGBU (GRAY) MINI COM RJ-45 JACKS.
 - DATA JACKS SHALL BE EQUIVALENT TO PANDUIT CAT. NO. CJ6X88TGIG (GRAY) MINI COM RJ-45 JACKS.
 - CCTV AND OTHER POE DEVICE JACKS SHALL BE EQUIVALENT TO PANDUIT CAT. NO. CJ6X88TGYL (YELLOW) MINI COM RJ-45 JACKS.
 - ALL CATEGORY 6A PATCH CORDS SHALL BE PROVIDED BY THIS CONTRACTOR.
 - HORIZONTAL CABLE MANAGEMENT SHALL BE PANDUIT CAT# NCMHF2 CABLE PATHWAY

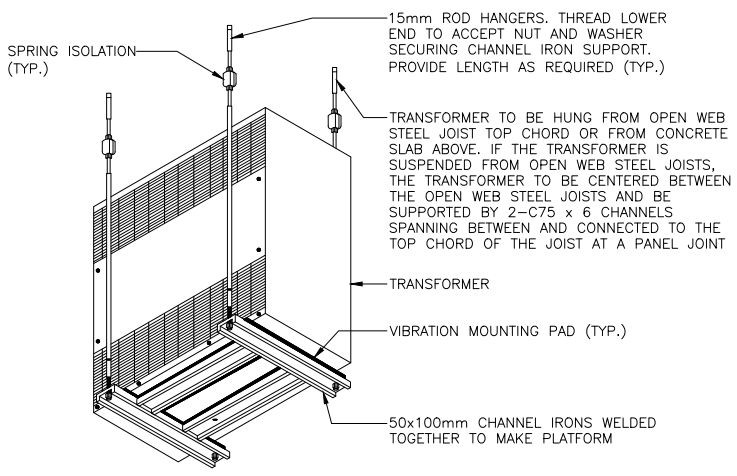
- FIBRE EQUIPMENT:**
- ALL FIBRE EQUIPMENT, TERMINATION AND TESTING BY INTERNET SERVICE PROVIDER AND COORDINATED BY THIS CONTRACTOR.
- COORDINATE EXACT FIBRE TERMINATION REQUIREMENTS WITH OWNER.

- UPS EQUIPMENT:**
- 1 IN RACK 2200VA UPS EQUIPMENT TO APC CAT# SMX2200RMLV2U.

- COMMUNICATION RACK:**
- PROVIDE "PANDUIT" OPEN RELAY RACKS CONSISTING OF THE FOLLOWING:
- 1 - R2P STANDARD 3" CHANNEL RACKS
 - 2 - PR2VFD12 12" WIDE VERTICAL CABLE MANAGEMENT SYSTEM.
 - 4 - PRD12 HINGED COVERS FOR VERTICAL CABLE MANAGEMENT.
 - 1 - PR2VWF RACK TOP TROUGHS WITH WATERFALL
 - 2 - PR2VEP END PANELS

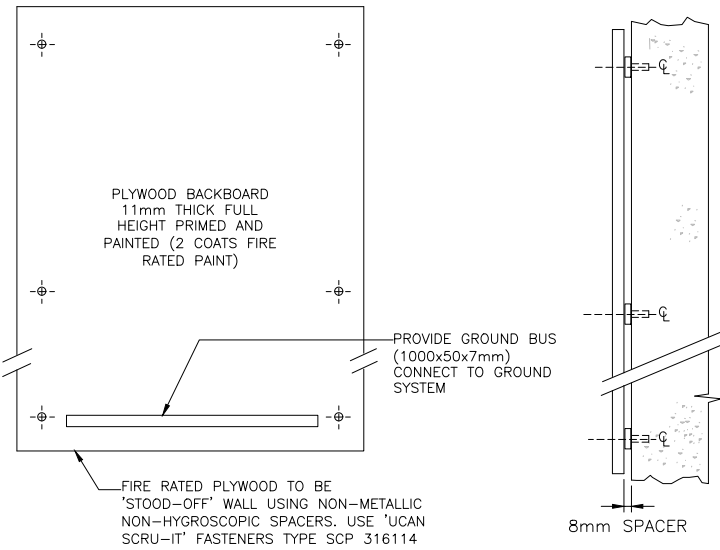
- GENERAL NOTES:**
- SERVER AND SWITCHES ARE PROVIDED BY TENANT.
 - RACKS SHALL BE COMPLETE WITH ALL NECESSARY HARDWARE AND ACCESSORIES, HUBBELL, ELECTRON METAL AND DL CUSTOM SHALL BE APPROVED ALTERNATES PROVIDED THEY COMPLY.

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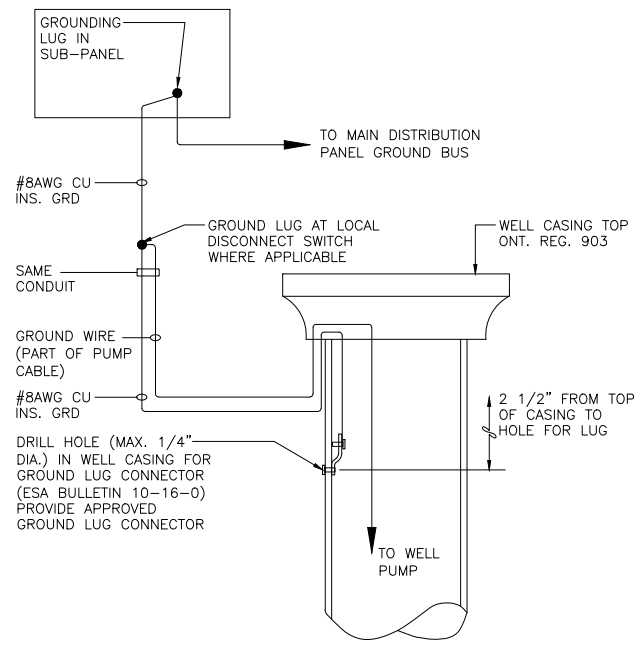


- NOTES:**
- SPACE CHANNEL IRONS SO THAT TRANSFORMER IS PROPERLY SUPPORTED.
 - ALLOW ADEQUATE ACCESS SPACE BETWEEN RODS AND TRANSFORMER FOR REMOVAL OF FRONT COVER.
 - PROVIDE FLEXIBLE CONDUIT FOR PRIMARY AND SECONDARY CONNECTIONS TO THE TRANSFORMER.

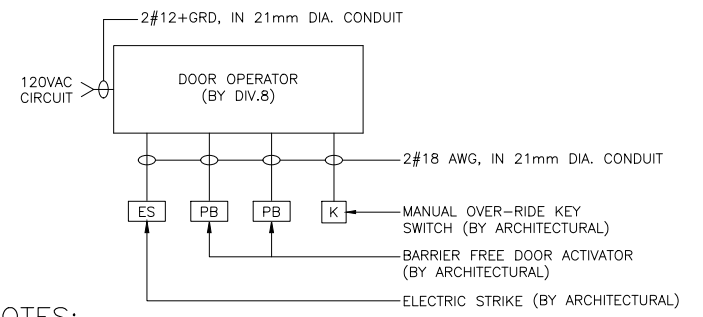
1 **DETAIL: TYPICAL TRANSFORMER SUSPENSION**
N.T.S.



2 **DETAIL: PLYWOOD BACKBOARD**
N.T.S.

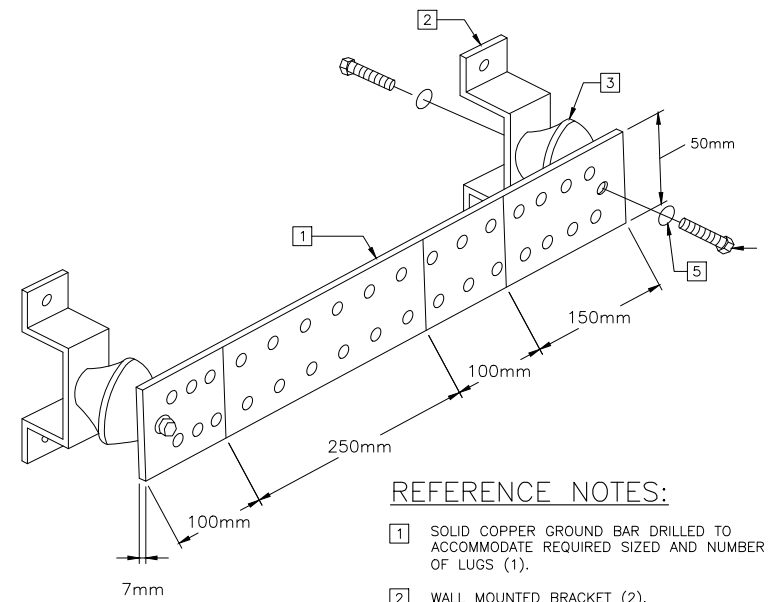


3 **DETAIL: WELL PUMP GROUNDING**
N.T.S.



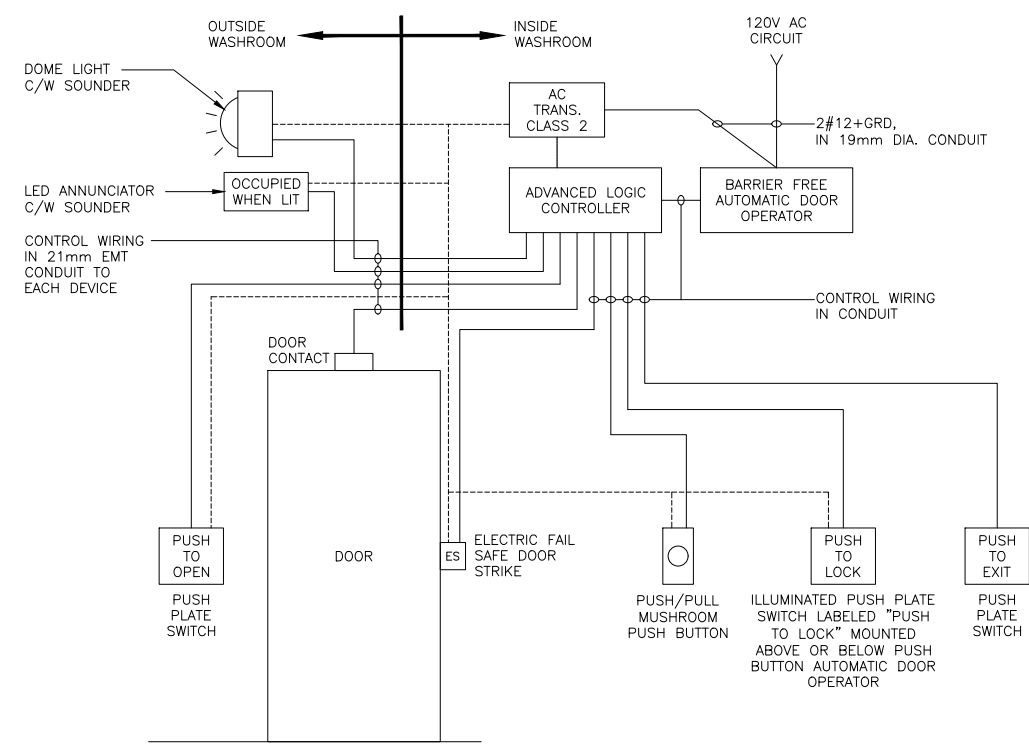
- NOTES:**
- KEY SWITCH TO DISABLE BARRIER FREE DOOR ACTIVATORS.
 - COORDINATE INSTALLATION OF PUSH BUTTONS, OPENER AND KEY SWITCH WITH DOOR HARDWARE SUPPLIER.
 - DOOR HARDWARE SUPPLIED AND MOUNTED BY DOOR HARDWARE SUPPLIER, POWER AND CONTROL WIRING BY THE CONTRACTOR.

4 **BARRIER FREE DOOR ACTIVATOR DIAGRAM**
N.T.S.



- REFERENCE NOTES:**
- SOLID COPPER GROUND BAR DRILLED TO ACCOMMODATE REQUIRED SIZED AND NUMBER OF LUGS (1).
 - WALL MOUNTED BRACKET (2).
 - INSULATORS (2).
 - 16x25mm H.H.C.S (4).
 - 16mm DIA. LOCKWASHER (4).

5 **DETAIL: GROUND BAR**
N.T.S.

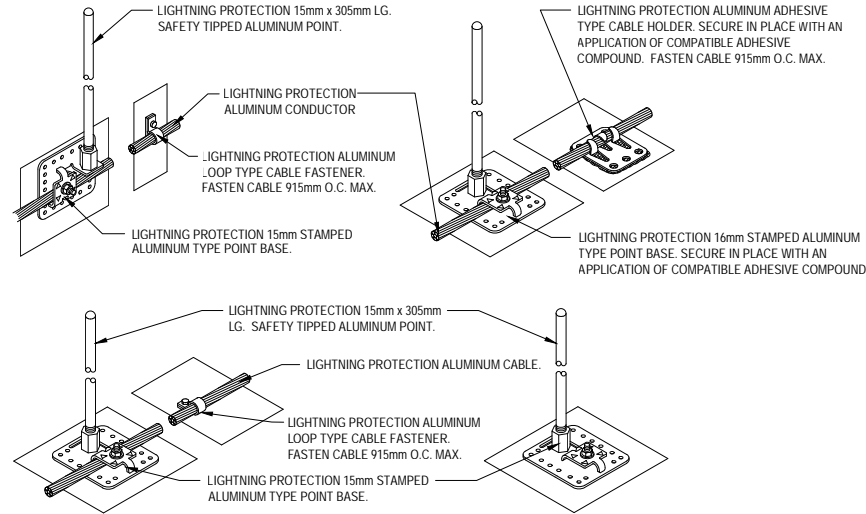


- NOTES:**
- ALL ITEMS UNLESS OTHERWISE NOTED ARE SUPPLIED, MOUNTED AND INSTALLED BY THE CONTRACTOR. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR MOUNTING LOCATIONS.
 - UNIVERSAL WASHROOM KIT FOR EMERGENCY CALL ASSISTANCE TO LATEST AODA AND BUILDING CODE REQUIREMENTS.

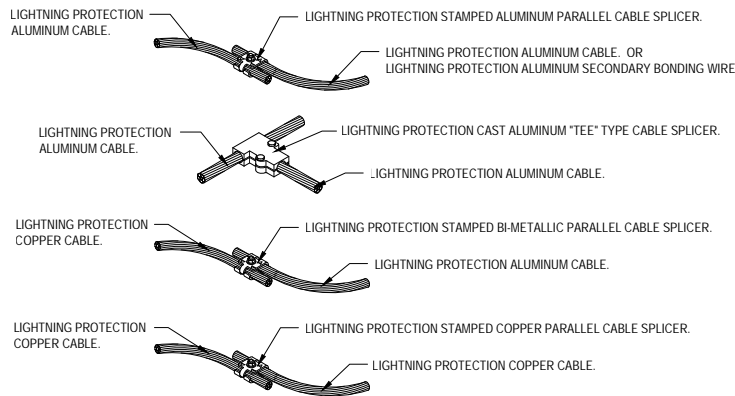
6 **UNIVERSAL WASHROOM DIAGRAM**
N.T.S.

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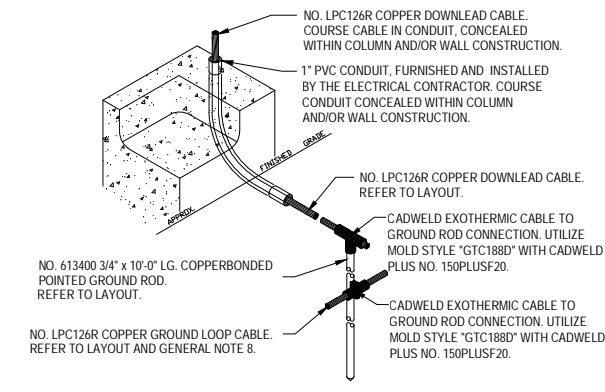
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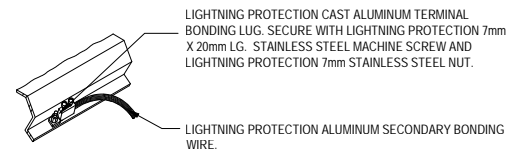
1 EQUIPMENT AIR TERMINALS
113 SCALE: NTS



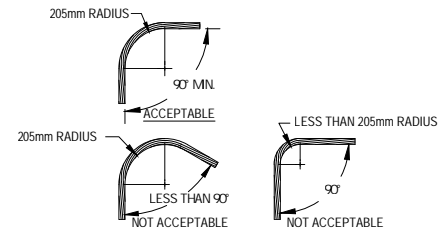
2 CABLE SPLICERS
113 SCALE: NTS



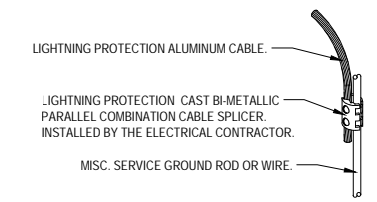
3 CONCEALED DOWNLEAD TO GROUNDING CONNECTION
113 SCALE: NTS



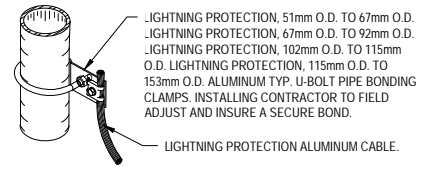
4 FLASHING OR GUTTER BOND
113 SCALE: NTS



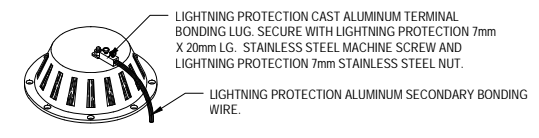
5 CABLE BEND REQUIREMENTS
113 SCALE: NTS



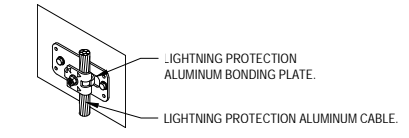
6 TELEPHONE / ELECTRICAL SERVICE BOARD
113 SCALE: NTS



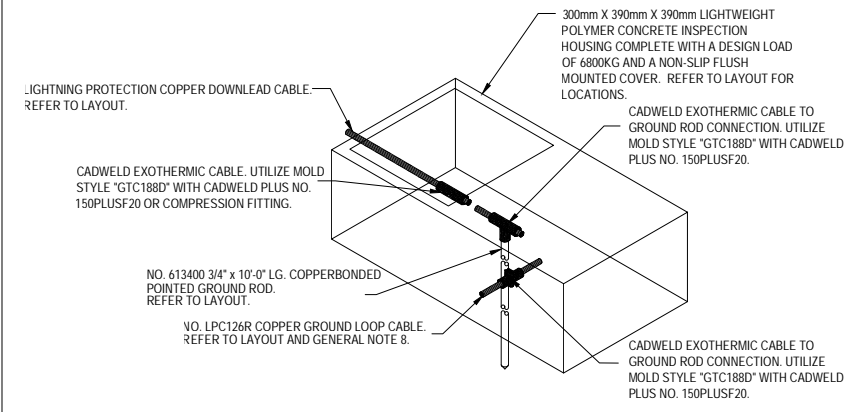
7 ROOF PIPE BINDING CLAMP
113 SCALE: NTS



8 ROOF PIPE BINDING CLAMP
113 SCALE: NTS



9 ROOF EQUIPMENT BONDS
113 SCALE: NTS



10 INSPECTION & TESTING OF GROUNDING CONNECTION
113 SCALE: NTS

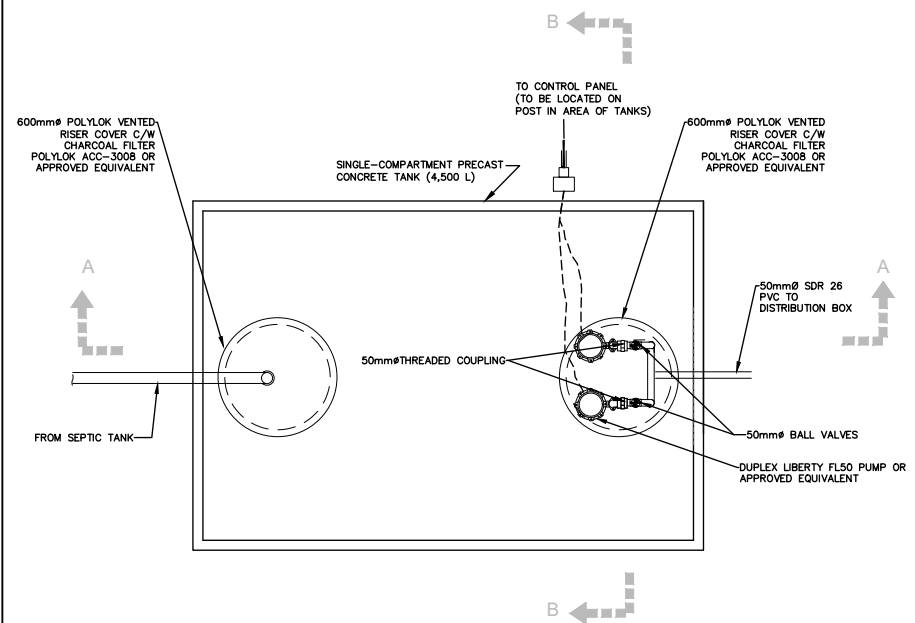
LIGHTNING PROTECTION DETAILS

DRAWING NOT TO BE SCALED
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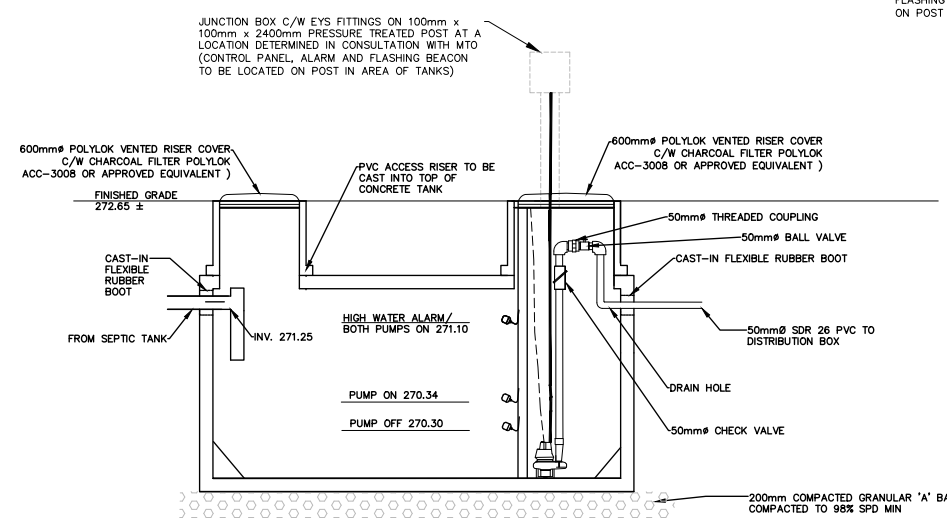
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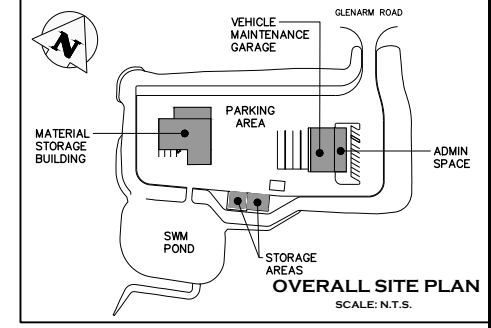
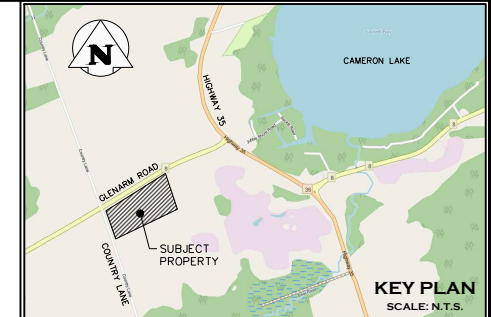
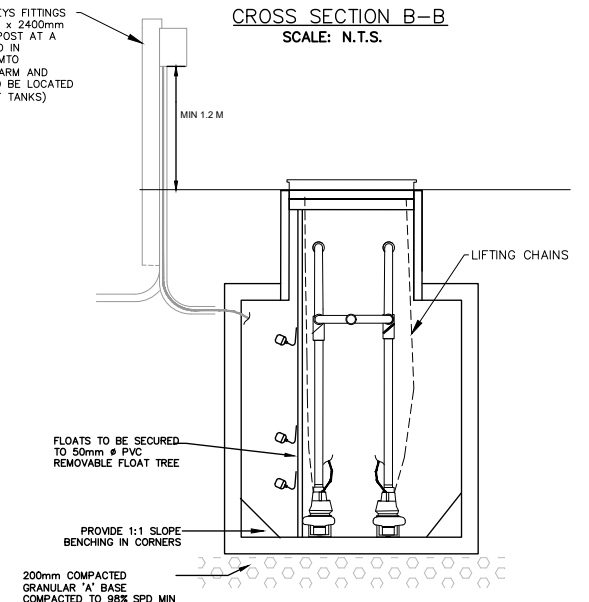
PROPOSED 4,500 L PUMP TANK DETAIL
SCALE: N.T.S.



CROSS SECTION A-A
SCALE: N.T.S.



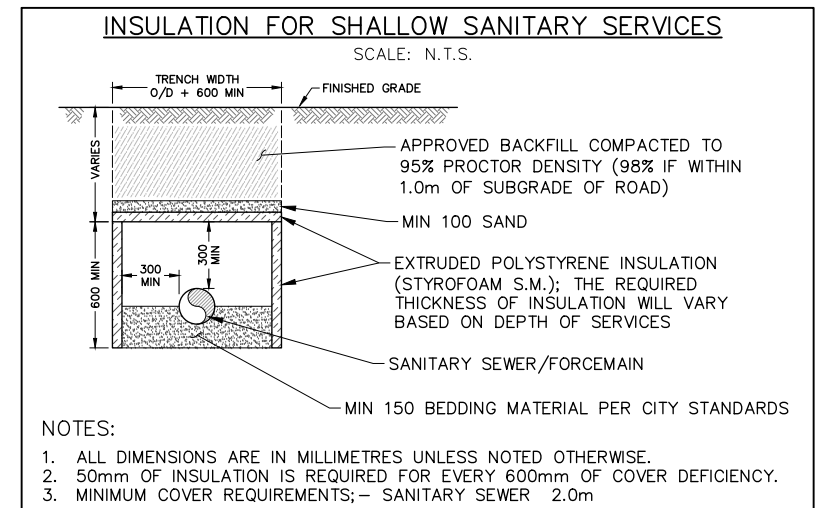
CROSS SECTION B-B
SCALE: N.T.S.



SEWAGE SYSTEM NOTES

- PROPOSED SEWAGE SYSTEM CONSTRUCTION TO BE UNDERTAKEN IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, ONTARIO MINISTRY OF ENVIRONMENT, AND THE MANUFACTURER'S RECOMMENDATIONS.
- INSTALLATION OF ALL COMPONENTS OF THE SEWAGE SYSTEM TO BE COMPLETED BY A LICENSED AND REGISTERED ONSITE SEWAGE SYSTEM INSTALLER IN THE PROVINCE OF ONTARIO.
- THE CONTRACTOR SHALL COORDINATE AND PAY FOR ALL NECESSARY INSPECTIONS WITH THE TOWN AND OTHER AUTHORITIES PERTAINING TO THE INSTALLATION OF THEIR WORK.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES AND EXISTING SEWAGE WORKS PRIOR TO CONSTRUCTION.
- ALL COMPONENT LOCATIONS SHALL BE FIELD VERIFIED WITH THE ENGINEER PRIOR TO INSTALLATION.
- ALL EARTHWORKS, INCLUDING PLACEMENT OF FILL ARE TO BE UNDERTAKEN WITH TRACK MOUNTED EQUIPMENT TO KEEP COMPACTION TO A MINIMUM. KEEP ALL TRAFFIC IN THE AREA OF THE PROPOSED LEACHING BED TO A MINIMUM.
- ALL TOPSOIL AND ORGANICS TO BE REMOVED FROM LEACHING BED AREA.
- IF HIGH GROUNDWATER CONDITIONS ARE EVIDENT AT THE TIME OF CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ALL VERTICAL CLEARANCE DISTANCES AS REQUIRED BY THE ONTARIO BUILDING CODE MUST BE MAINTAINED.
- GRAVITY SEWERS TO HAVE MINIMUM 0.6 M COVER AND SHALL BE INSULATED WHERE LESS THAN 2.0M COVER IS PROVIDED. FORCEMAIN SHALL BE INSULATED WHERE LESS THAN 2.0 M COVER IS PROVIDED. BEDDING, COVER AND BACKFILL TO BE IN ACCORDANCE WITH OPSS.
- UNLESS OTHERWISE NOTED PVC FORCEMAIN TO BE SDR-26. GRAVITY SEWERS TO BE SDR-26. FORCE MAIN TO BE PROVIDED WITH TRACER WIRE, SECURED TO THE TOP OF THE PIPE WITH WATER PROOF TAPE OR ZIP TIES.
- ALL PIPES SUBJECT TO VEHICULAR TRAFFIC SHALL BE ADEQUATELY PROTECTED.
- ALL METAL IN TANKS OR PUMP CHAMBERS TO BE GALVANIZED OR STAINLESS STEEL
- ALL JOINTS BELOW THE HIGH WATER LEVEL IN PRECAST TANKS TO BE SEALED WITH MASTIC SEALANT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS FOR WATERTIGHT SEAL. ALL TANK INLETS AND OUTLETS TO BE EQUIPPED WITH CAST IN RUBBER BOOT FOR WATER TIGHT SEAL. UNLESS OTHERWISE NOTED ALL TANK INLETS AND OUTLETS TO BE EQUIPPED WITH TEES.
- ALL TANKS TO BE PROVIDED WITH PRECAST CONCRETE OR PVC ACCESS RISERS TO GRADE. HATCHES TO BE BOLTED AND GASKETED AND ACCESSIBLE AT GRADE. ALL CIRCULAR HATCHES TO BE 600 MM DIAMETER POLYLOK RISER WITH CAST IN ADAPTOR. ALL SQUARE ACCESS OPENINGS TO BE EQUIPPED WITH CONCRETE RISERS. VENTED HATCHES TO BE PROVIDED ON TANKS CONTAINING PUMPS.
- A TANK SHALL NOT BE COVERED BY SOIL OR LEACHING BED FILL HAVING A DEPTH GREATER THAN THE MAXIMUM DEPTH OF BURIAL THAT THE TANK IS DESIGNED TO WITHSTAND.
- EXISTING SOILS SHALL BE SCARIFIED AT A RIGHT ANGLE TO THE DIRECTION OF LATERAL SEWAGE FLOW IN THE LEACHING BED PRIOR TO IMPORTING FILL OR INSTALLING DISTRIBUTION PIPE STONE LAYER.
- WHEN THE IMPORTATION OF FILL IS REQUIRED, FILL SHOULD BE END-DUMPED AND GRADED PROGRESSIVELY OVER THE PREPARED SITE AREA WITH TRACK MOUNTED EQUIPMENT.
- ALL ELEVATIONS TO BE VERIFIED PRIOR TO BACKFILL

- ALL FILL MATERIAL PLACED BENEATH TANKS TO BE COMPACTED TO 98%.
- ALL DISTURBED AREAS TO BE TOPSOILED (100MM MINIMUM) AND SEEDED COMPLETE WITH FERTILIZER AND MULCH IN ACCORDANCE WITH OPSS
- THE INSTALLING CONTRACTOR SHALL INSTALL THE SEWAGE SYSTEM USING A TRANSIT/LEVEL AND SHALL PROVIDE SAME FOR INSPECTION OF ANY COMPONENT.
- SEPTIC TANKS SHALL CONFORM TO THE REQUIREMENTS OFF BSA 66, "DESIGN, MATERIAL, AND MANUFACTURING REQUIREMENTS FOR PREFABRICATED SEPTIC TANKS AND SEWAGE HOLDING TANKS" AND OBC 8.2.2.3.
- AN EFFLUENT FILTER RATED FOR THE DESIGN FLOWS SHALL BE INSTALLED AT EACH SEPTIC TANK OUTLET, CONFORMING TO NSF/ANSI 46, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- CLEARANCE DISTANCES FROM PROPERTY LINES, STRUCTURES, WELLS, AND SURFACE WATER WILL ADHERE TO THE REQUIREMENTS OF OBC 8.2.1.6.A
- A LEACHING BED SHALL NOT BE LOCATED ON AN AREA WITH A SLOPE OF GREATER THAN 4 UNITS HORIZONTALLY TO 1 UNIT VERTICALLY.
- THE HEADER LINE, DISTRIBUTION PIPES AND LEACHING BED SHALL BE EQUIPPED WITH MEANS OF DETECTION AS REQUIRED BY OBC 8.7.2.2. (2). LIGHT COLOURED PLASTIC COATED 14 GAUGE TRACER WIRE OR EPOXY COATED, 10m REBAR LAID HORIZONTALLY AT EACH CORNER OF THE BED IS ACCEPTABLE.
- STONE TRENCH OR LAYER TO BE COVERED WITH PERMEABLE GEOTEXTILE PRIOR TO BACKFILL.
- STONE TO CONFORM WITH OBC 8.7.3.3.
- FILTER BED SAND TO MEET OBC 8.7.5.3.(3). IMPORTED SAND FILL FOR MANTLE IF REQUIRED TO HAVE A T-TIME OF 6 TO 10 MIN/CM. BOTH SHALL BE VERIFIED IN WRITING BY A SOIL TESTING FIRM AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.
- PUMP CHAMBER TO BE VENTED AND EQUIPPED WITH AUDIBLE AND VISUAL HIGH LEVEL ALARM
- ALL VALVES TO PROVIDE NO OBSTRUCTION TO FLOW WHEN FULLY OPENED. ALL VALVES AND COUPLINGS TO BE ACCESSIBLE AT GRADE.
- ALL PUMP FLOATS TO BE SECURED TO A REMOVABLE PVC FLOAT TREE
- ALL PUMP CONTROL PANELS TO BE EQUIPPED WITH SEPARATE CIRCUIT BREAKERS FOR PUMP CIRCUIT
- NO JUNCTION BOXES IN RISERS
- ALL BURIED ELECTRICAL WIRING TO BE IN PVC CONDUIT
- PRIOR TO ACCEPTANCE CONTRACTOR TO PROVIDE DOCUMENTATION THAT ALL ELECTRICAL WORK HAS BEEN INSPECTED AND APPROVED BY THE ELECTRICAL AUTHORITY HAVING JURISDICTION.
- BOTH PUMPS TO BE LIBERTY FL50 0.5HP OR APPROVED EQUIVALENT, 1 PHASE, 230 v, RATED FOR 3.5 L/S AND 6.2 M TDH, AND SHALL BE SUPPLIED WITH THE FOLLOWING:
 - SUFFICIENT ELECTRICAL CABLE TO REACH FROM THE PUMP CHAMBER TO THE JUNCTION BOX AND FROM THE JUNCTION BOX TO THE CONTROL PANEL
 - LEVEL CONTROLS (NON-MERCURY) WITH THE SAME ELECTRICAL CABLE LENGTH AS IN A)
 - DEMAND DOSE CONTROL PANEL C/W NEMA 4X ENCLOSURE WITH PILOT LIGHTS, HAND-OFF-AUTO SWITCH, HIGH WATER ALARM BUZZER WITH FLASHING BEACON, TEST OFF/ON SELECTOR SWITCH, CIRCUIT BREAKERS FOR PUMP AND CONTROL CIRCUIT, AND CUSTOM FLOAT CONTROLS TO DOSE 217.0 L PER PUMP CYCLE.



3	ISSUED FOR TENDER	2024/OCT/16
2	ISSUED FOR 100% SUBMISSION	2024/MAY/23
1	ISSUED FOR 60% CLIENT REVIEW	2024/FEB/02
0	ISSUED FOR COORDINATION	2024/JAN/22
No.	ISSUE / REVISION	YYYY/MM/DD

SITE PLAN NOTES:
DESIGN ELEMENTS ARE BASED ON SITE PLAN BY DILLON CONSULTING.
DRAWING No.: PROVIDED TO CROZIER ON (2024/MAY/22)

DRAWING NOTES:
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THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT. DO NOT SCALE THIS DRAWING.
ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

Project
MTO MAINTENANCE PATROL YARD
HIGHWAY 35
CITY OF KAWARTHA LAKES

Drawing
ONSITE SEWAGE SYSTEM
NOTES AND DETAILS

CONTRACT NO.: 2023-4010
GWP NO.: 4044-22-00

Stamp
Stamp

LICENCED PROFESSIONAL ENGINEER
K. RENTSCH
100105133
OCT 16, 2024
PROVINCE OF ONTARIO

CROZIER
CONSULTING ENGINEERS

Drawn Z.S. Design Z.S. Project No. 2400-6594-3
Check J.D./K.R. Check J.D./K.R. Scale 1:300 Dwg. 115