ONTARIO BUILDING CODE DATA MATRIX

PART 9 - HOUSING AND SMALL BUILDINGS — OBC REFERENCE [1]

9.00	BUILDING CODE VERSION	O.Reg. 332/12		LAST AMENDMENT O.Reg. 209/20				
9.01	PROJECT TYPE	NEW CONSTRUCTION						[A] 1.1.2.
		ELECTRICAL ENGINEERING OFFICE AND WAREHOUSE						
9.02	OCCUPANCY CLASSIFICATION	OCCUPANCY			USE			9.10.2.
		F3	LOW HAZARD INDUSTRIAL		WAREHOUSE			
		D	BUSINESS & PERSONAL SERVICES		OFFICE			
9.03	SUPERIMPOSED MAJOR OCCUPANCIES	NO						9.10.2.3.
9.04	BUILDING AREA (m²)	DESCRIPTION		EXISTING	NEW	TOTAL		[A] 1.4.1.2.
		ENTIRE BUILDING		0.0	418.1	418.1		
9.05	MEZZANINE AREA (m²)	DESCRIPTION		EXISTING	NEW	TOTAL		9.10.4.1.
		WAREHOUSE		0.0	28.0	28.0		
9.06	GROSS AREA (m²)	DESCRIPTION		EXISTING	NEW	TOTAL		[A] 1.4.1.2.
		ENTIRE BUILDING		0.00	446.10	446.1		
9.07	BUILDING HEIGHT	1	STOREYS ABOVE GRADE		7.90	(m) ABOVE GRADE		[A] 1.4.1.2. &
		0	STOREYS BELOW GRADE					9.10.4.
9.08	NUMBER OF STREETS/ FIRE FIGHTER ACCESS	1	STREET(S)					9.10.20.
9.09	SPRINKLER SYSTEM	NOT REQUIRED	Provided:	NONE				9.10.8.2.-4.
9.10	FIRE ALARM SYSTEM	NOT REQUIRED		TYPE PROVIDED N/A				9.10.18.
9.11	WATER SUPPLY IS ADEQUATE	YES	DRILLED WELL					
9.12	CONSTRUCTION TYPE	RESTRICTIONS	COMBUSTIBLE PERMITTED					9.10.6.
		ACTUAL	COMBUSTIBLE	EAVY TIMBER CONSTRUCTION		NO		
9.12	POST-DISASTER BUILDING	NO						[A] 1.1.2.2.(2)
9.13	OCCUPANT LOAD	FLOOR LEVEL/AREA	OCCUPANCY TYPE	BASED ON		OCCUPANT LOAD (PERSONS)		3.1.17.
		GROUND FLOOR	WAREHOUSE	m² PER PERSON		8		
		GROUND FLOOR	OFFICE	m² PER PERSON		20		
		TOTAL				28		
9.14	BARRIER-FREE DESIGN	YES						9.5.2.
9.15	HAZARDOUS SUBSTANCES	NO						9.10.1.3.
9.16	REQUIRED FIRE RESISTANCE RATINGS	HORIZONTAL ASSEMBLY			FIRE RESISTANCE RATING (H)	SUPPORTING ASSEMBLY (H)		9.10.8.
		FLOORS EXCEPT CRAWLSPACE			0.75	0.75		
		MEZZANINE			0	N/A		
		ROOF			0	N/A		

9.17	SPATIAL SEPARATION	WALL	EBF AREA (m^2)	LIMITING DISTANCE (m)	MAX. AREA OF UPO (%)	REQUIRED FRR (H)	CONSTRUCTION TYPE	CLADDING TYPE	9.10.14.
		NORTH	55.7	35.0	100.0	-	COMBUSTIBLE PERMITTED	COMBUSTIBLE PERMITTED	
		EAST NORTHERN	73.4	15.2	100.0	-	COMBUSTIBLE PERMITTED	COMBUSTIBLE PERMITTED	
		EAST SOUTHERN	55.1	15.2	100.0	-	COMBUSTIBLE PERMITTED	COMBUSTIBLE PERMITTED	
		SOUTH	55.7	39.8	100.0	-	COMBUSTIBLE PERMITTED	COMBUSTIBLE PERMITTED	
		WEST NORTHERN	73.4	50.4	100.0	-	COMBUSTIBLE PERMITTED	COMBUSTIBLE PERMITTED	
		WEST SOUTHERN	55.1	50.4	100.0	-	COMBUSTIBLE PERMITTED	COMBUSTIBLE PERMITTED	

9.18	PLUMBING FIXTURE REQUIREMENTS	FLOOR LEVEL/AREA	OCC. LOAD	OBC REF.	FIXTURES REQUIRED		FIXTURES PROVIDED		9.31. & 3.7.4.
					FEMALE	MALE	FEMALE	MALE	
		WAREHOUSE	8.00	3.7.4.9.(2)	1 UNISEX		1 UNV. WR		
		OFFICE (14 PERSONS/m2)	14.00	3.7.4.7.(1)	1.00	1.00	1.00	1.00	

9.19	ENERGY EFFICIENCY — NONRESIDENTIAL	COMPLIANCE OPTION:	SB-10, PRESCRIPTIVE, DIV.3		12.2.1.
		CLIMATIC ZONE	ZONE 2 (≥ 5000 DEGREE DAYS)		
		CLASSIFICATION	NON-RESIDENTIAL		
		OPAQUE ELEMENTS	MAX. U / MIN. R (I-P)	PROVIDED U-VALUE (I-P)	
		ROOF W/ ATTIC	R-71	R-71	
		WALLS, ABOVE GRADE	U-0.046	U-0.046	
		SLAB-ON-GRADE FLOORS - HEATED	R-10, FULL SLAB	R-10, FULL SLAB	
		WINDOWS	U-0.29	U-0.29	
9.20	NOTES	1	ALL REFERENCES ARE TO DIVISION B OF THE OBC UNLESS PRECEDED BY [A] FOR DIVISION A AND [C] FOR DIVISION C		

Ontario Building Code Data Matrix, Part 9 — October 2016

R01

DOOR SCHEDULE:

MARK:	QTY:	SIZE:	DESCRIPTION:	LOCATION:	LINTEL:
A	14	38"X84"	INTERIOR DOOR	OFFICES, CONFERENCE ROOM, FILING ROOM, STORAGE ROOM, PARTS ROOM, WASHROOMS, MECHANICAL ROOM	2PLY 2X6
B	1	72"X84"	EXTERIOR DOUBLE DOOR	FRONT ENTRANCE	3PLY 2X10
C	3	38"X84"	EXTERIOR DOOR	NORTH WALL, EAST WALL, WEST WALL	LVL 2900Fb–2.0E $5\frac{1}{4}$"X$9\frac{1}{4}$" C/W 4 JACK STUDS EACH SIDE
D	1	38"X84"	FIRE DOOR MINIMUM 20 MIN.	WAREHOUSE ENTRANCE	2PLY 2X10
E	2	144"X144"	OVERHEAD DOOR	WAREHOUSE	3PLY 2X10

VERIFY ALL WINDOW AND DOOR ROUGH OPENINGS WITH OWNER PRIOR TO CONSTRUCTION. ALL WINDOW LINTELS TO HAVE 1 JACK STUD EACH SIDE UNLESS NOTED OTHERWISE

WINDOW SCHEDULE:

MARK:	QTY:	SIZE (WxH):	DESCRIPTION:	LINTEL:
1	2	60"X60"	DOUBLE PANE, ARGON FILLED, LOW–E, CASEMENT MAX U–VALUE TO BE 0.29 (I–P)	2PLY 2X10
2	6	60"X60"	DOUBLE PANE, ARGON FILLED, LOW–E, AWNING MAX U–VALUE TO BE 0.29 (I–P)	LVL 2900Fb–2.0E $5\frac{1}{4}$"X$9\frac{1}{4}$" C/W 4 JACK STUDS EACH SIDE
3	6	72"X24"	DOUBLE PANE, ARGON FILLED, LOW–E, FIXED MAX U–VALUE TO BE 0.29 (I–P)	LVL 2900Fb–2.0E $5\frac{1}{4}$"X$9\frac{1}{4}$" C/W 4 JACK STUDS EACH SIDE

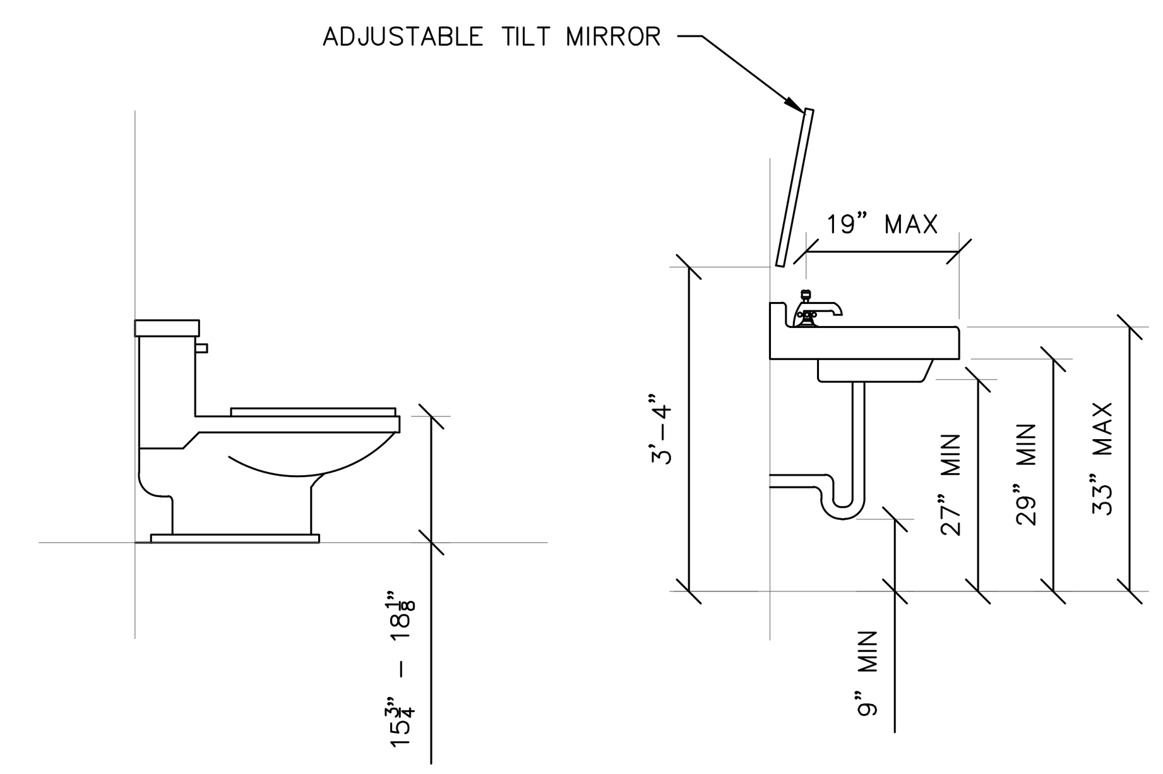
VERIFY ALL WINDOW AND DOOR ROUGH OPENINGS WITH OWNER PRIOR TO CONSTRUCTION. ALL WINDOW LINTELS TO HAVE 1 JACK STUD EACH SIDE UNLESS NOTED OTHERWISE

WALL SCHEDULE:

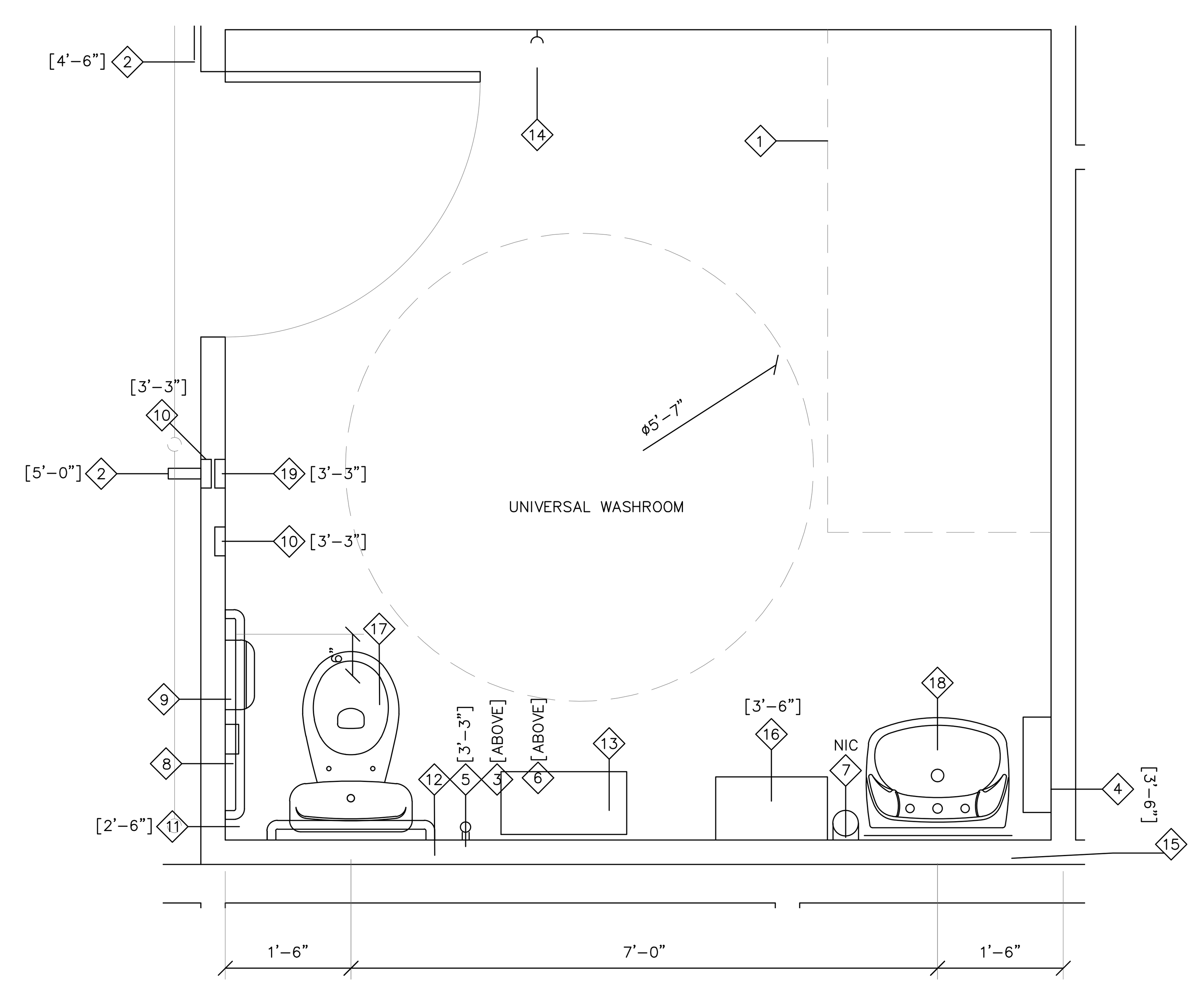
MARK:	DESCRIPTION:	CONSTRUCTION:	DRAWING:
W1	EXTERIOR (1)	–METAL CLADDING –1X4 STRAPPING @ 24" O.C. –1" EXPANDED POLYSTYRENE INSUL. –WEATHER–RESISTIVE BARRIER –7/16" OSB WALL SHEATHING FASTENED WITH 8d NAILS @ 6" O.C. –2X8 @ 16" O.C. C/W HORIZONTAL BLOCKING @ 48" O.C. –R28 BATT INSULATION –6MIL POLY VAPOUR BARRIER –1/2" GYPSUM BOARD	
W2	INTERIOR 2X6 3/4H FRR MMAH SB–3 W1B	–1/2" TYPE "X " GYPSUM BOARD –2X6 @ 16" O.C. C/W BLOCKING @ 48" O.C. –R20 BATT INSULATION –1/2" TYPE "X" GYPSUM BOARD	
W3	INTERIOR 2X4	–1/2" GYPSUM BOARD –2X4 @ 16" O.C. C/W BLOCKING @ 48" O.C. –1/2" GYPSUM BOARD	
W4	INTERIOR 2X4 3/4H FRR MMAH SB–3 W1E	–1/2" TYPE "X" GYPSUM BOARD –2X4 @ 16" O.C. C/W BLOCKING @ 48" O.C. –1/2" TYPE "X" GYPSUM BOARD	

WASHROOM ACCESSORIES

1. ADULT CHANGE TABLE.
2 WASHROOM SIGNAGE.
3. "ASSISTANCE REQUIRED" LED ANNUNCIATION C/W SOUNDER
4. "ASSISTANCE REQUIRED" DOME LIGHT WITH SOUNDER
5. "PUSH FOR ASSISTANCE" BUTTON
6. EMERGENCY SIGN
7. SOAP DISPENSER
8. NAPKIN DISPOSAL
9. TOILET PAPER DISPENSER
10. DOOR ACTIVATION SWITCH
11. GRAB BAR "L" SHAPED, 30" HORIZONTAL & VERTICAL
12. GRAB BAR HORIZONTAL 24" LONG 6" ABOVE TANK
13. WASTE RECEPTACLE
14. COAT HOOK
15. MIRROR
16. SHELF
17. TOILET
18. LAVATORY
19. PUSH TO LOCK BUTTON



FIXTURE DETAILS



*PROVIDE SOLID BACKING FOR ALL ACCESSORIES AND FIXTURES

DETAIL 1/101 — 3/4"=1'–0"

*ALL AUDIO AND VISUAL SIGNALS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE OBC

UNIVERSAL WASHROOM

NOTES:

DESIGN NOTES:

GENERAL:
1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO FABRICATION.
3. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISION COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION".
4. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS.
5. UNDER NO CIRCUMSTANCES ARE THESE DRAWINGS TO BE SCALED, INCLUDING FOR PREPARATION OF SHOP DRAWINGS, CONSTRUCTION LAYOUT, OR BIDDING PURPOSES. ERRORS MADE BY PERSONS SCALING THESE DRAWINGS SHALL NOT BE THE RESPONSIBILITY OF ALPHA ENGINEERING.
6. CONTRACTOR SHALL SUBMIT ANY SHOP DRAWINGS FOR REVIEW BY THE CONSULTANT PRIOR TO FABRICATION.
7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE ONTARIO BUILDING CODE (2012).
8. REINFORCING STEEL MUST BE INSPECTED BY ENGINEER PRIOR TO POURING CONCRETE, GIVE 48 HOURS NOTICE.

WOOD:
1. ALL FRAMING LUMBER SHALL COMPLY WITH PERTINENT PROVISIONS OF CSA 086 AND CSA 0141, AND TO THE NATIONAL LUMBER GRADES AUTHORITY, STANDARD GRADING RULE.
2. FRAMING MATERIAL, UNLESS OTHERWISE NOTED, SHALL BE KILN DRIED LUMBER.
3. ALL WOOD MEMBERS SHALL BE SPF GRADE NO. 2 OR BETTER.
4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE AND LOCAL BY–LAWS.
5. ENGINEER TO REVIEW ALL SHOP DRAWINGS. LVL, TRUSSES ETC.

SITE PREPARATION:
1. EXCAVATION SHALL BE CLEAR OF ALL DELETERIOUS MATERIALS.
2. BACK FILL UNDERNEATH THE FOOTINGS SHALL BE GRANULAR B; TYPE 1 ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) COMPACTED TO 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD). BACKFILL SHALL BE PLACED IN 12" LIFTS.
3. COMPACTION TESTING SHALL BE PERFORMED TO ENSURE COMPACTION HAS BEEN ACHIEVED PRIOR TO PLACEMENT OF THE NEXT LIFT.
4. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE BEARING CAPACITY OF 100KPa. OWNER SHALL BE RESPONSIBLE FOR PROVIDING CONFIRMATION OF ALL COMPACTION TESTING REQUIRED TO ACHIEVE THE DESIGN BEARING CAPACITY.
5. PROTECT ALL SOIL FROM FREEZING ADJACENT TO AND BELOW ALL FOUNDATIONS.

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LICENSED PROFESSIONAL ENGINEER — R. J. FOGOLIN — PROVINCE OF ONTARIO

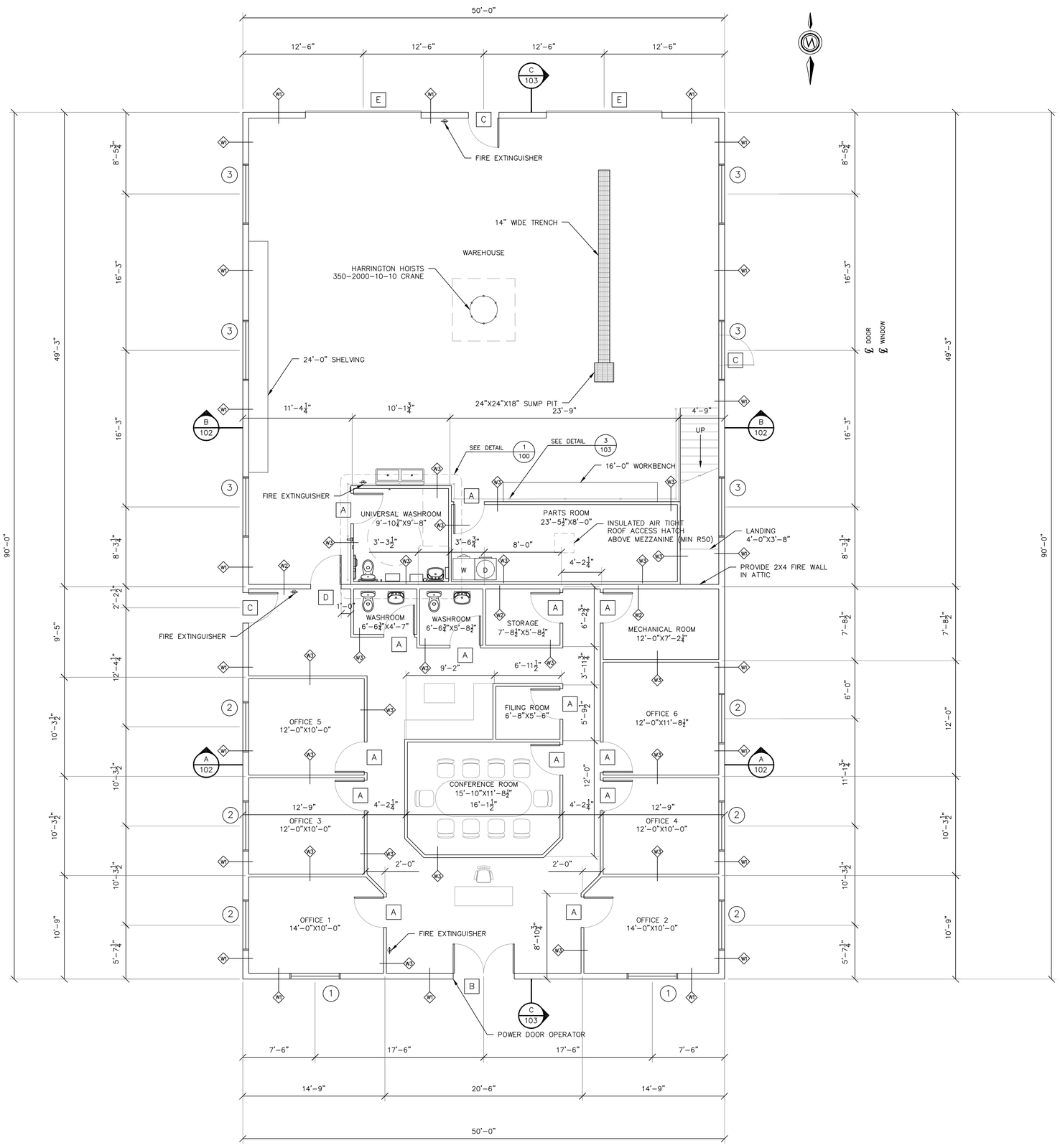
ALPHA ENGINEERING
CIVIL, STRUCTURAL, PROJECT MANAGEMENT
121 McKellar St S
Thunder Bay, ON, P7E 1H4
Ph. (807) 345-6221
Email.: b.fogolin@alphaeng.ca

PSS POWER SYSTEM SOLUTIONS LTD.

PROPOSED OLIVER PAIPOONGE BUILDING

OBC MATRIX GENERAL NOTES AND UNIVERSAL WASHROOM

DRAWN: SWG	CHECKED: RJF
DATE: 26/5/2020	SCALE: 3/4"=1'–0"
DWG No: AE–20079–100	1



PLAN VIEW

NOTES:

FOUNDATION:
1. FORM WORK AND TOLERANCES SHALL CONFORM TO CSA-A23.1.
2. CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS.
3. CONCRETE PLACING, CURING AND TESTING SHALL CONFORM TO CSA-A23.1 AND A23.2.
4. ALL REINFORCING BARS SHALL CONFORM TO THE LATEST CSA STANDARD G30.18 HAVING A MINIMUM YIELD STRENGTH OF 400MPa.
5. DETAILING AND PLACING OF ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE REINFORCING STEEL INSTITUTE OF CANADA "MANUAL OF STANDARD PRACTICE".
6. CLEAR CONCRETE COVER TO REINFORCING STEEL SHALL BE:
   A) CONCRETE POURED AGAINST EARTH: 3"
   B) CONCRETE EXPOSED TO EARTH OR WEATHER: 1 1/2"
   C) SLAB OR WALLS NOT EXPOSED TO EARTH OR WEATHER: 3/4"
7. GIVE ENGINEER A MINIMUM OF 48 HRS NOTICE PRIOR TO POURING CONCRETE, TO PERFORM REINFORCING STEEL INSPECTION IN WALLS AND FOOTINGS. DO NOT POUR WITHOUT APPROVAL FROM ENGINEER.
8. SAW CUTTING OF SLABS IS RECOMMENDED AT 20'-0" INTERVALS, HOWEVER; OWNER SHOULD DISCUSS THIS WITH CONCRETE CONTRACTOR.
9. VERIFY ROUGH OPENINGS PRIOR TO FORMING.

DESIGN LOADS:
SNOW LOAD: VARIES SEE SNOW LOAD DIAGRAM
ROOF DEAD LOAD: 1kPa
MEZZANINE = 4.8 KPa
SA (0.2) =0.095
SA (0.5) = 0.057
SA (1.0) = 0.026
SA (2.0) = 0.008

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PROVINCE OF ONTARIO

ALPHA ENGINEERING
CIVIL, STRUCTURAL, PROJECT MANAGEMENT
121 McKellar St S
Thunder Bay, ON, P7E 1H4
Ph. (807) 345-6221
Email.: b.fogolin@alphaeng.ca

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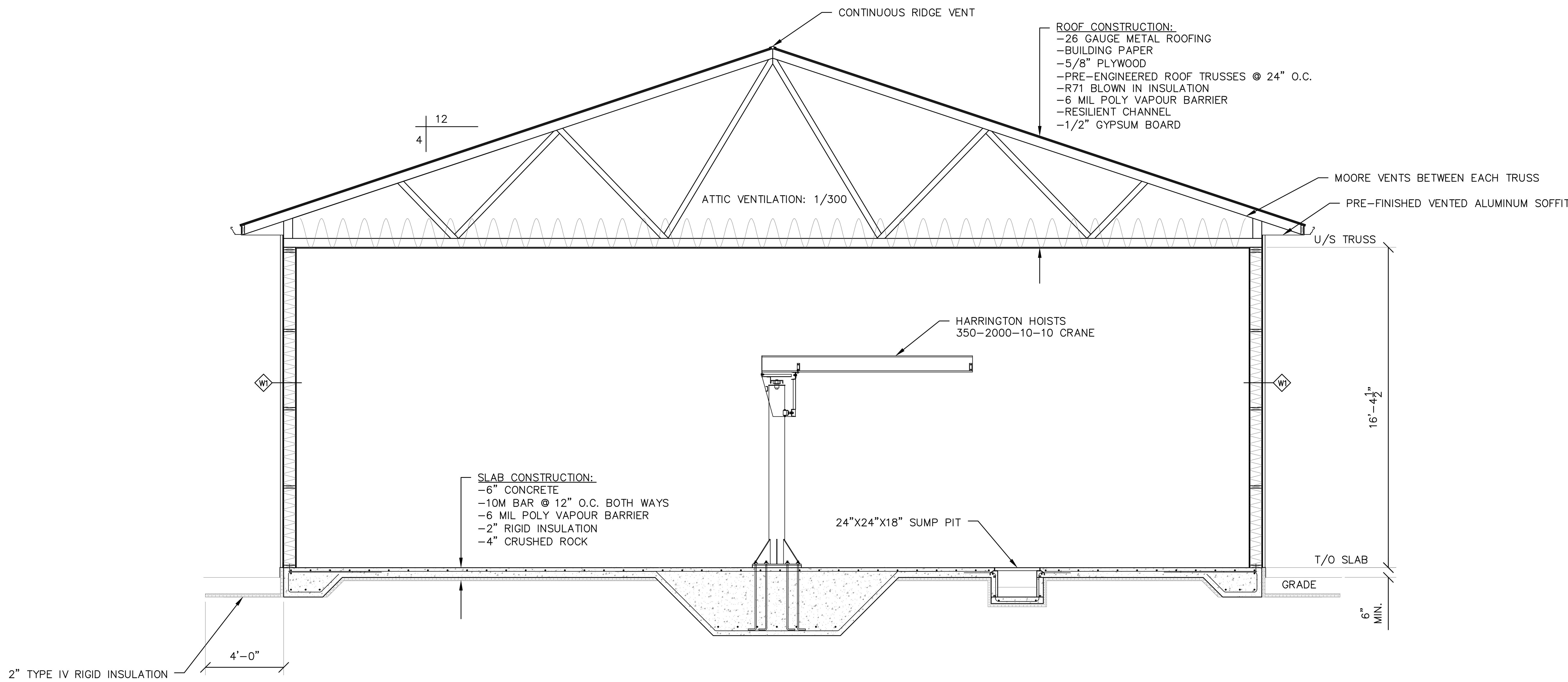
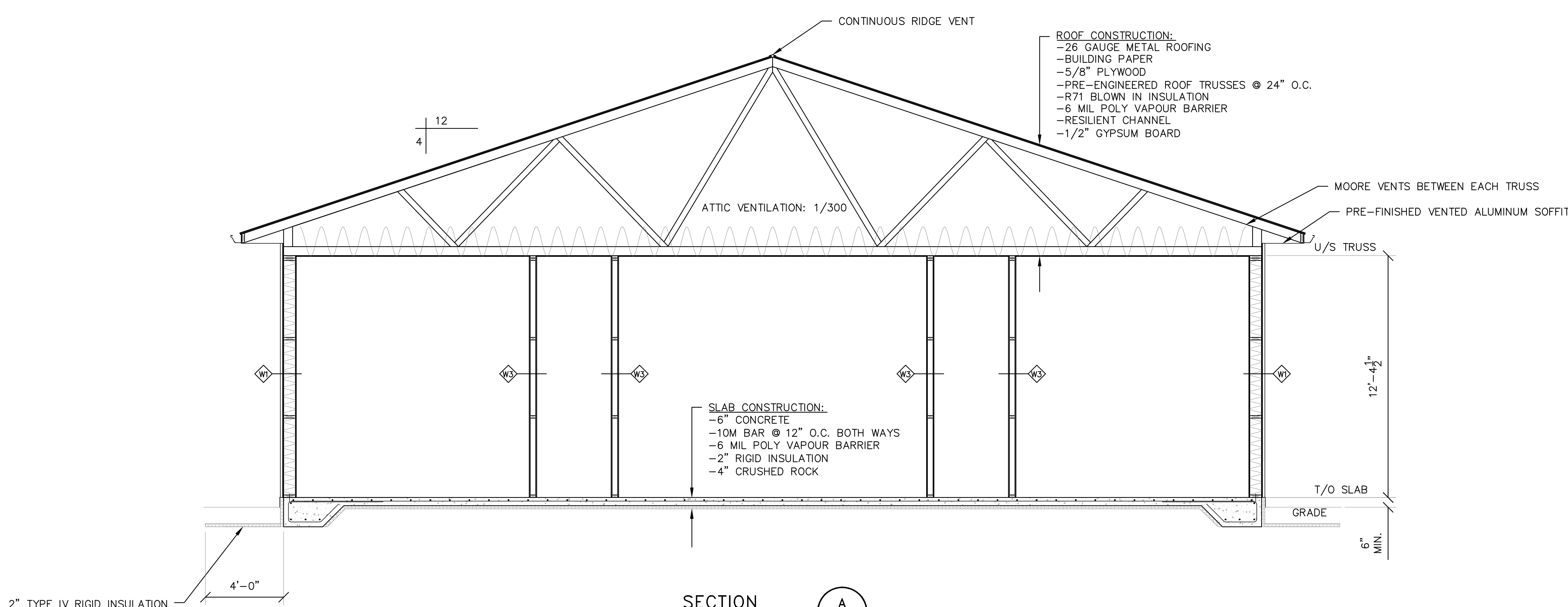
PLAN VIEW

DRAWN: SWG | CHECKED: RJF
DATE: 26/5/2020 | SCALE: 3/16"=1'-0"
DWG No: AE-20079-101 | 0



SECTION B/101
1/4"=1'-0"



SECTION A/101
1/4"=1'-0"

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SECTIONS

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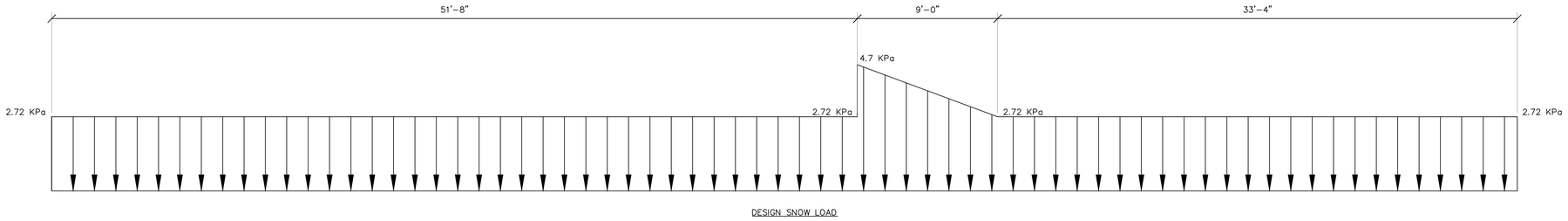
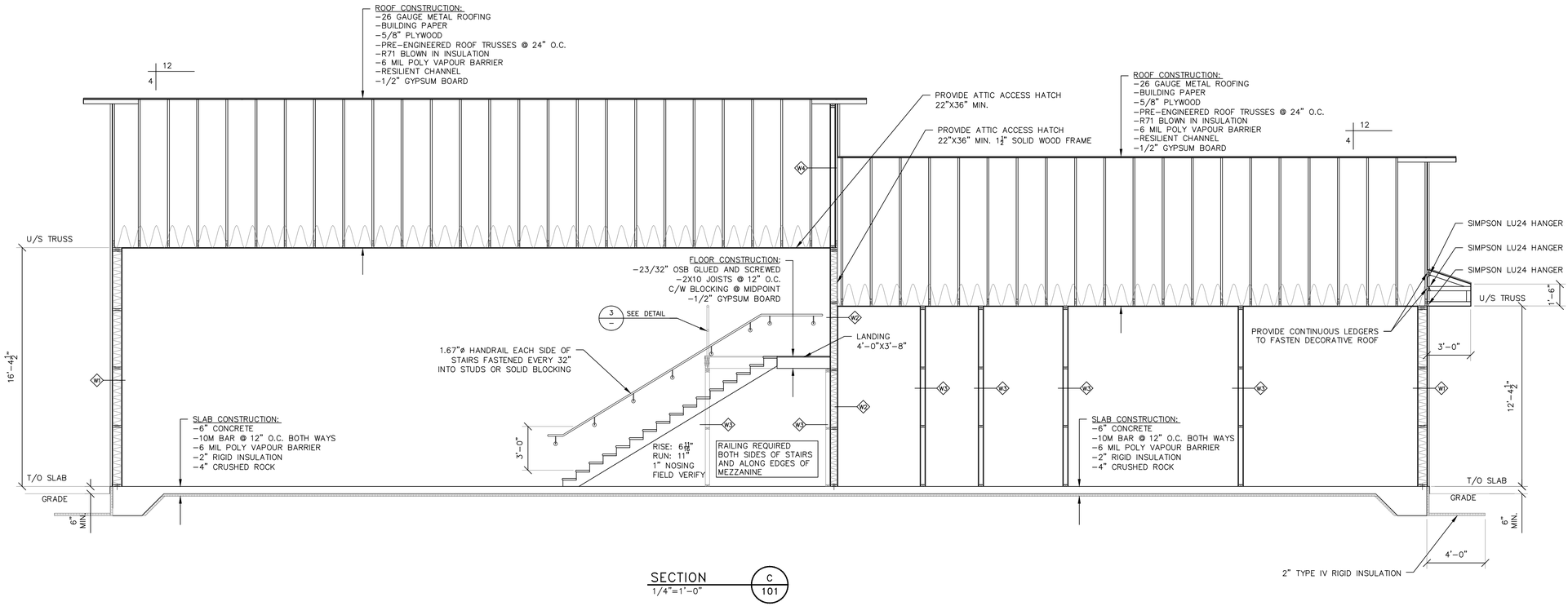
DATE: 26/5/2020	SCALE: 1/4"=1'-0"

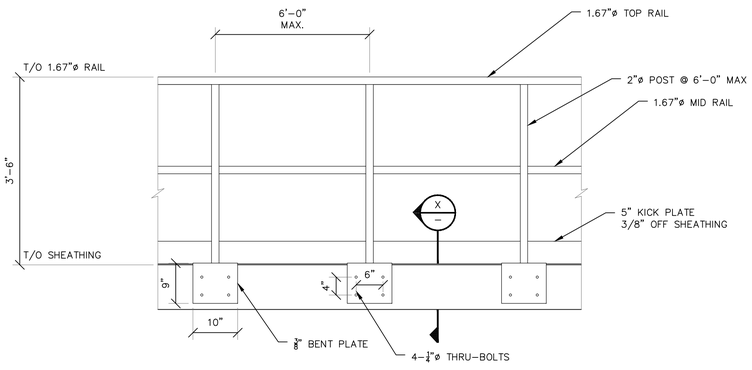
DWG No: AE-20079-102 0



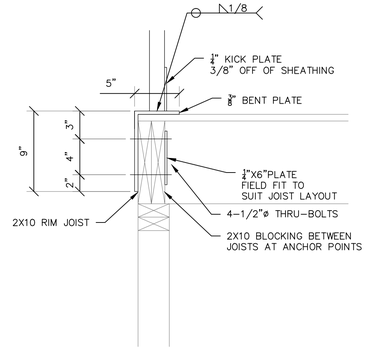
DESIGN SNOW LOAD



SECTION C / 101
1/4"=1'-0"



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



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

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15/7/2020
R. J. FOGOLIN
PROVINCE OF ONTARIO

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PROPOSED OLIVER PAIPOONGE BUILDING

SECTION

DRAWN: SWG	CHECKED: RJF
DATE: 26/5/2020	SCALE: 1/4"=1'-0"

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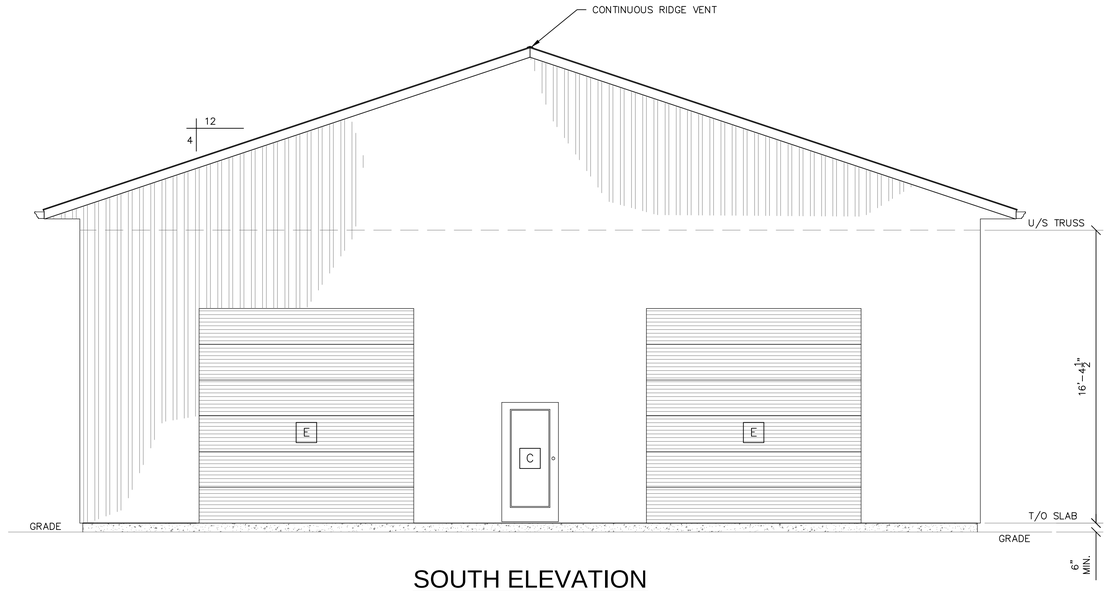
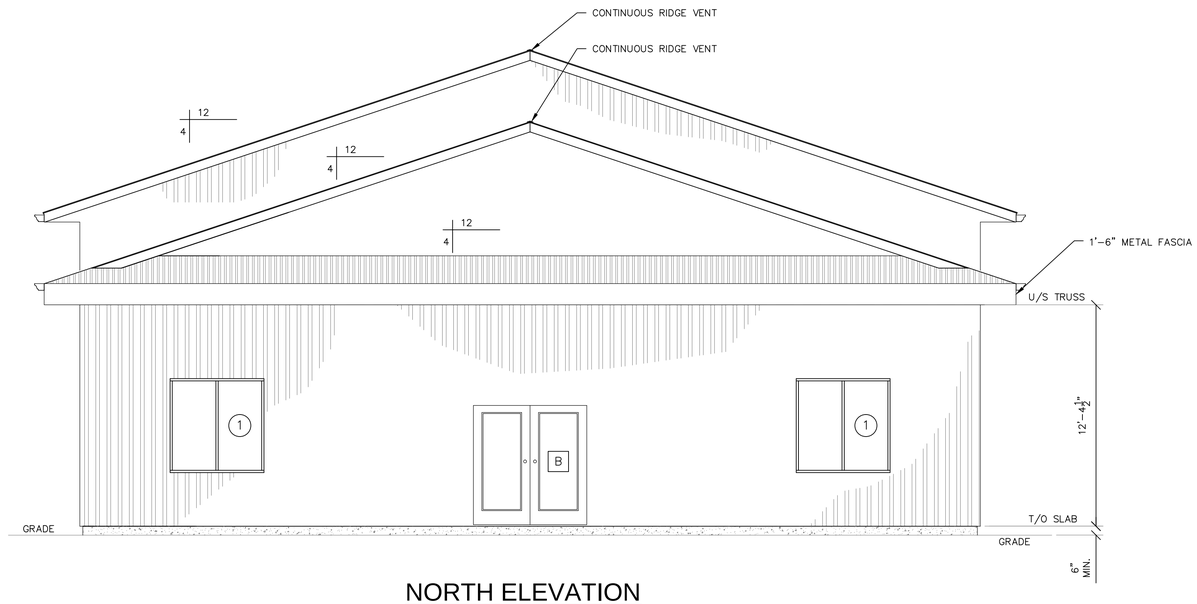


SOUTH ELEVATION



NORTH ELEVATION

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Email.: b.fogolin@alphaeng.ca

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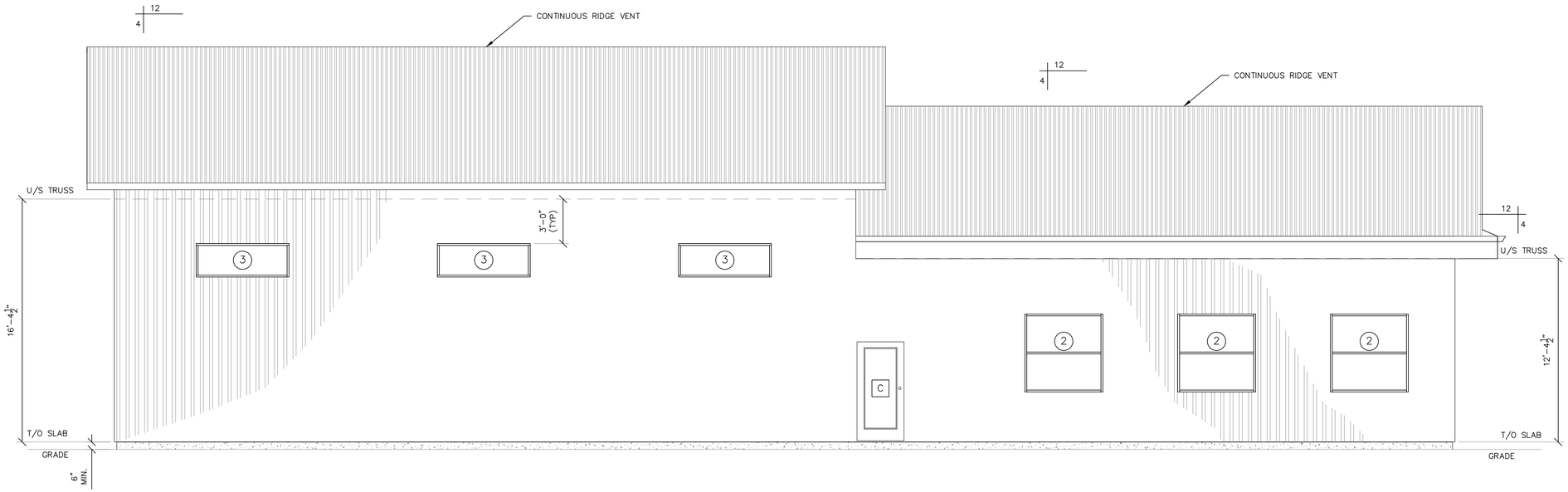
PROPOSED OLIVER PAIPOONGE BUILDING

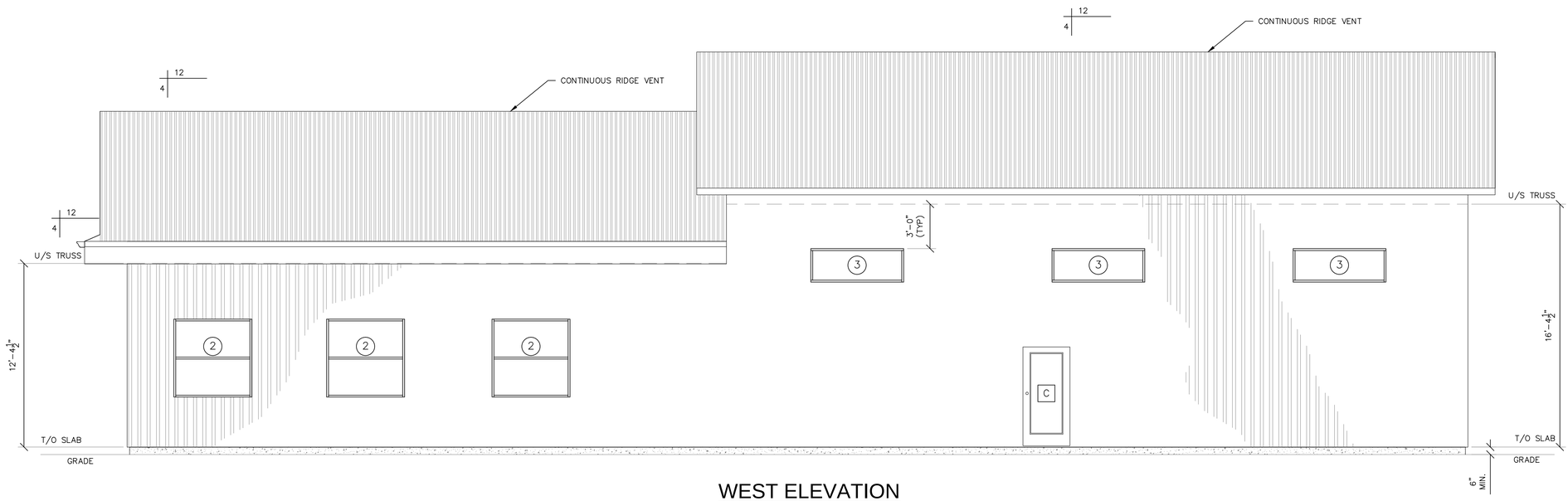
NORTH AND SOUTH ELEVATIONS

DRAWN: SWG	CHECKED: RJF
DATE: 26/5/2020	SCALE: 1/4"=1'-0"

DWG No: AE-20079-104 | 0



EAST ELEVATION



WEST ELEVATION

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No.	DATE	REVISION

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PROVINCE OF ONTARIO

ALPHA ENGINEERING
CIVIL, STRUCTURAL, PROJECT MANAGEMENT
121 McKellar St S
Thunder Bay, ON, P7E 1H4
Ph. (807) 345-6221
Email.: b.fogolin@alphaeng.ca

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PROPOSED OLIVER PAIPOONGE BUILDING

EAST AND WEST ELEVATIONS

DRAWN: SWG	CHECKED: RJF
DATE: 26/5/2020	SCALE: 1/4"=1'-0"

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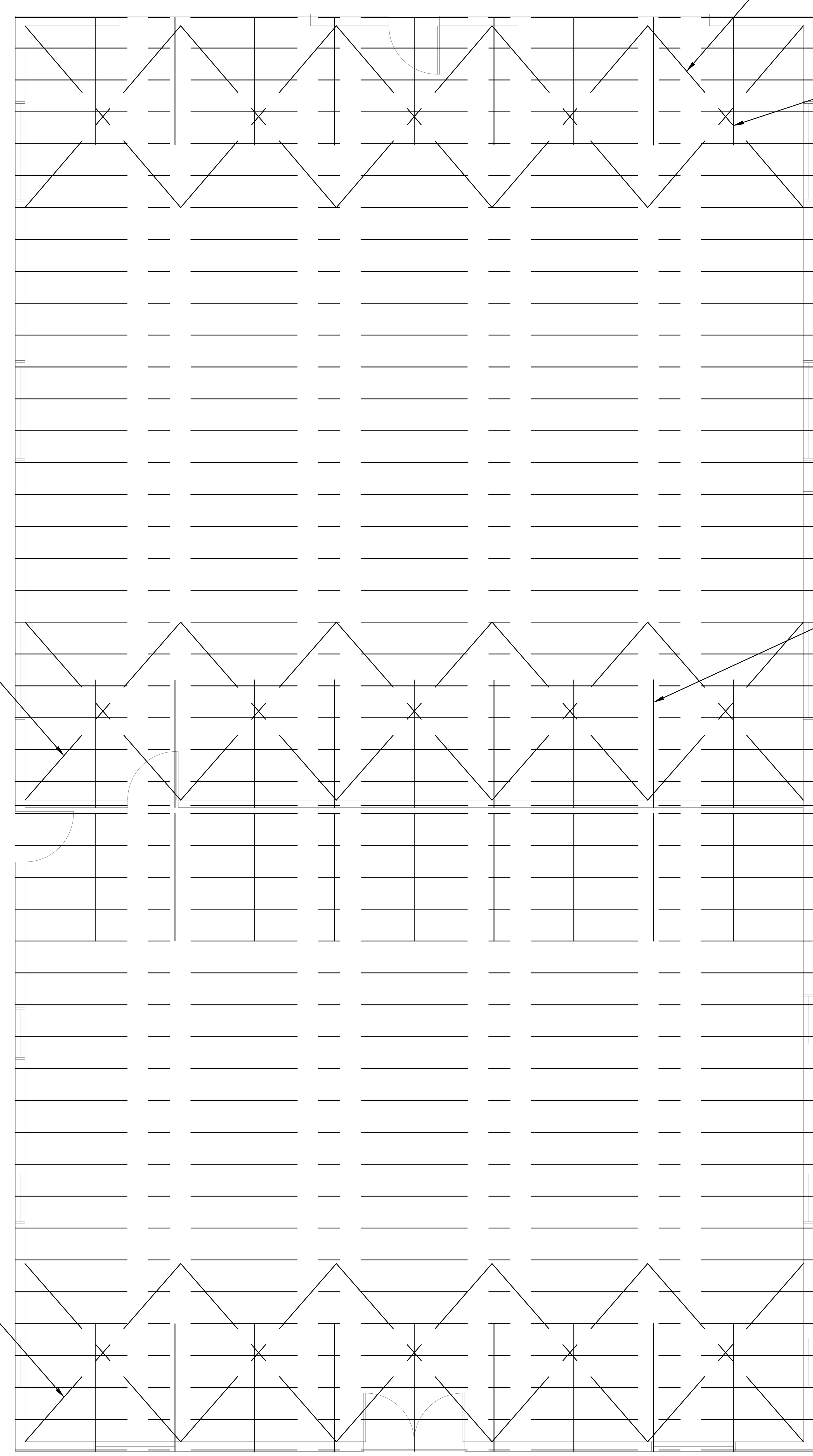
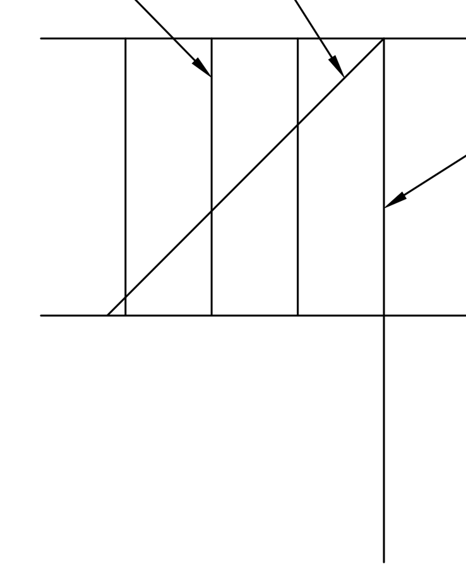
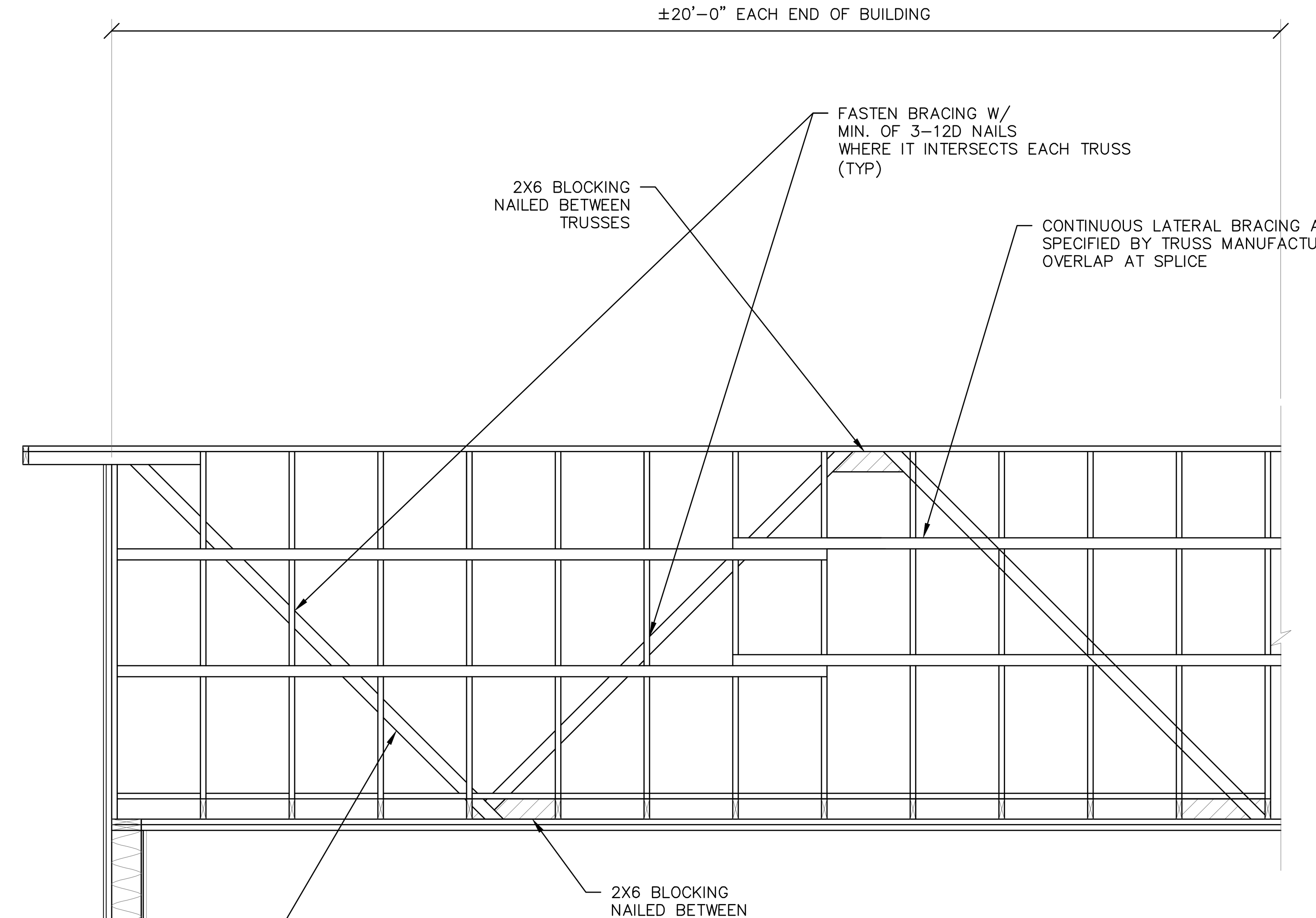




BOTTOM CHORD TRUSS BRACING



△1 TRUSS ANCHOR BRACING

LOCATED AT EACH END OF UPPER AND LOWER ROOF NOT SHOWN IN PLAN VIEW FOR CLARETY

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LICENSED PROFESSIONAL ENGINEER 15/7/2020 R. J. FOGOLIN PROVINCE OF ONTARIO

ALPHA ENGINEERING
CIVIL, STRUCTURAL, PROJECT MANAGEMENT
121 McKellar St S
Thunder Bay, ON, P7E 1H4
Ph. (807) 345-6221
Email.: b.fogolin@alphaeng.ca

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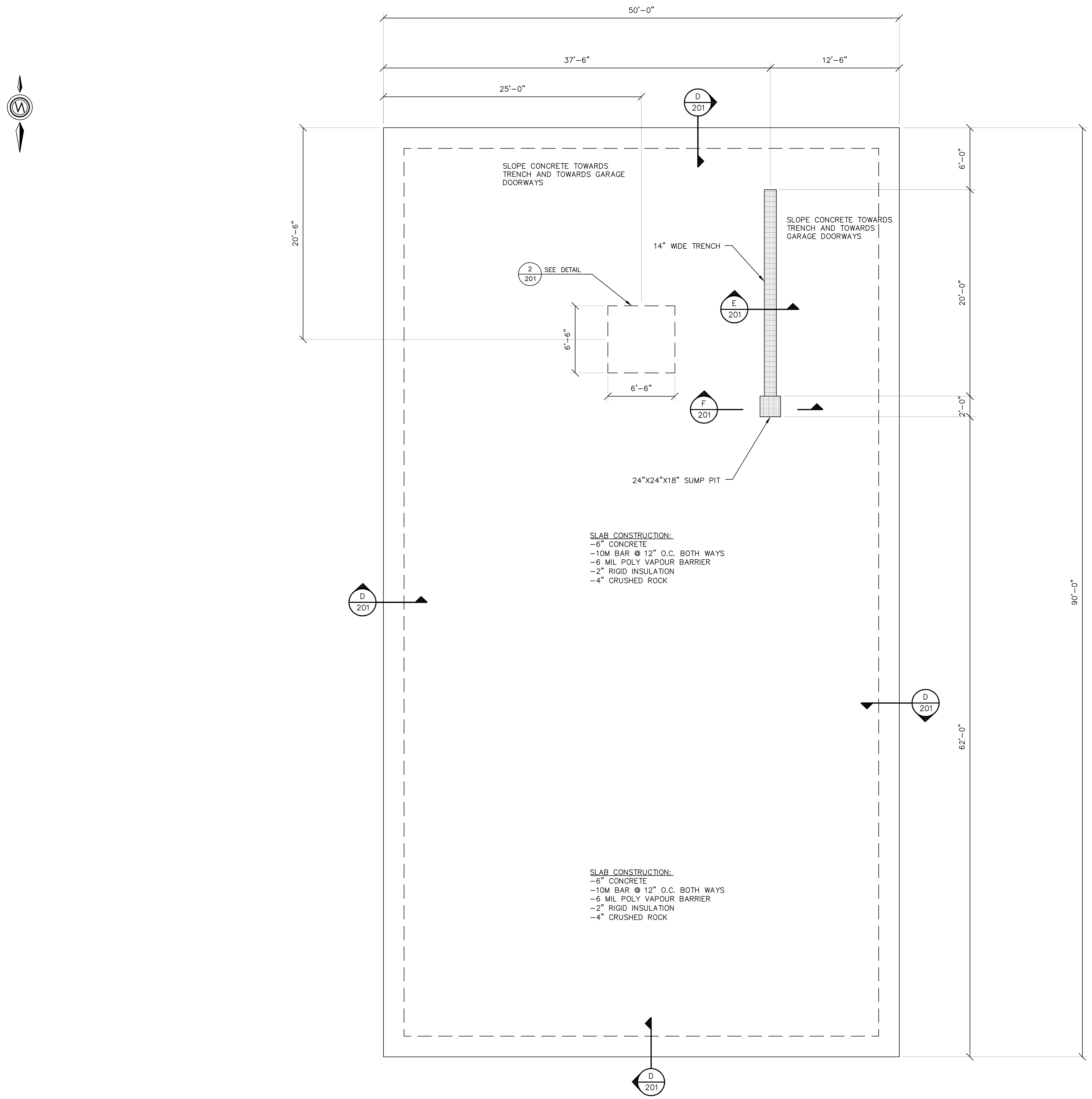
PROPOSED OLIVER PAIPOONGE BUILDING

BOTTOM CHORD TRUSS BRACING

DRAWN: SWG	CHECKED: RJF
DATE: 26/5/2020	SCALE: 3/16"=1'–0"
DWG No: AE–20079–106	△1



FOUNDATION PLAN VIEW

NOTES:

No.	DATE	REVISION
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LICENSED PROFESSIONAL ENGINEER
R. J. FOGOLIN
PROVINCE OF ONTARIO

ALPHA ENGINEERING
CIVIL, STRUCTURAL, PROJECT MANAGEMENT
121 McKellar St S
Thunder Bay, ON, P7E 1H4
Ph. (807) 345-6221
Email.: b.fogolin@alphaeng.ca

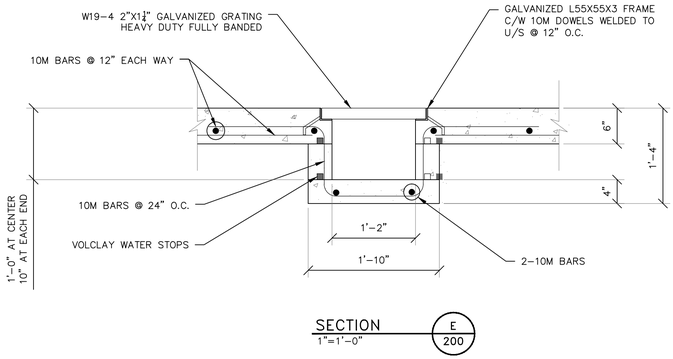
PSS POWER SYSTEM SOLUTIONS LTD.

PROPOSED OLIVER PAIPOONGE BUILDING

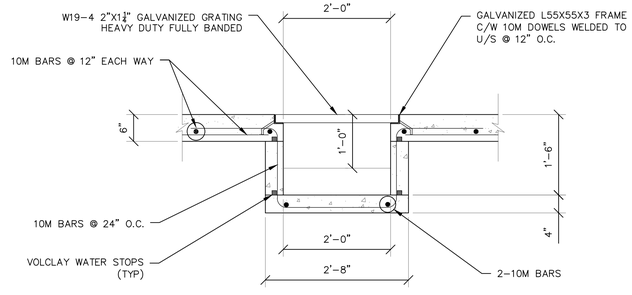
FOUNDATION PLAN VIEW

DRAWN: SWG	CHECKED: RJF
DATE: 26/5/2020	SCALE: 3/16"=1'-0"

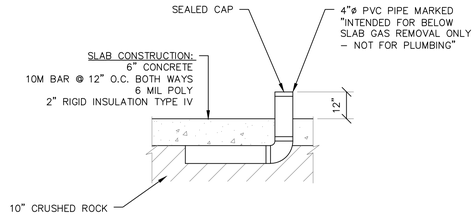
DWG No: AE-20079-200 0



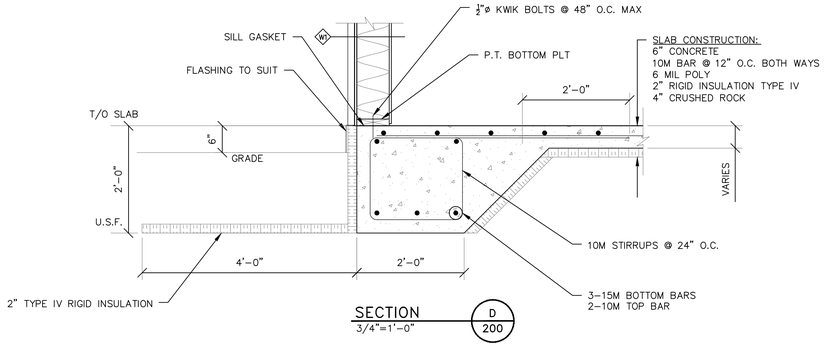
SECTION E
1"=1'–0" 200



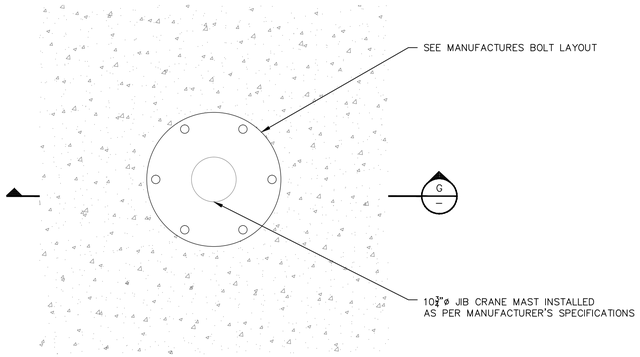
SECTION F
3/4"=1'–0" 200



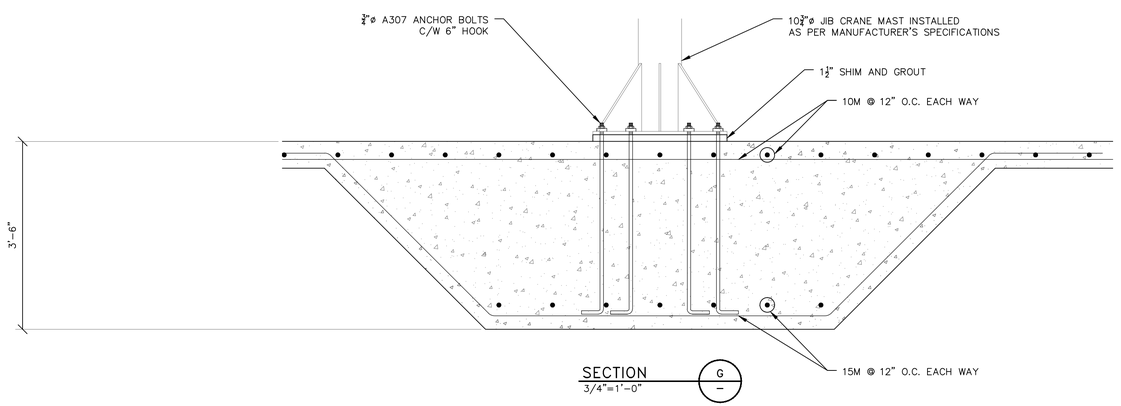
TYPICAL RADON GAS VENT



SECTION D
3/4"=1'–0" 200



DETAIL 2
3/4"=1'–0" 200



SECTION G
3/4"=1'–0" –

NOTES:

No.	DATE	REVISION
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FOUNDATION SECTIONS, & DETAILS

DRAWN: SWG | CHECKED: RJF
DATE: 26/5/2020 | SCALE: 1"=1'–0"

DWG No: AE–20079–201 | 0