



Humanics Sanctuary - Phase 1B

Site Servicing Report

Type of Document

Site Plan Resubmission

Project Name

Humanics Sanctuary

Project Number

OTT-00229886-A0

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Reviewed By: Bruce Thomas, P.Eng.

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Date Submitted

November 25, 2022

Updated: September 15, 2026

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Date Resubmitted:
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Legal Notification

This report was prepared by **exp** Services Inc. for the account of **Humanics Universal Inc.** Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. **Exp** Services Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this project

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1 Background

Exp Services Inc. (**exp**) was retained by Humanics Universal Inc. to provide engineering services for a proposed institutional development located in the City of Ottawa (the former Township of Cumberland).

The 7.52-hectare subject property, herein referred to as Sanctuary Lands, is located on the south side of Old Montreal Road. Site access is provided from Old Montreal Road with an emergency access road to the Cumberland Estates subdivision to the south. Figure 1 in Appendix A provides the overall site location. The Sanctuary Lands is comprised of the northern section of 3400 Old Montreal Road (PIN 145340140) as well as the parcel of land at 3468 Old Montreal Road (PIN 145340141). Cumberland Estate Phase 2, to the south, is comprised of the southern section of 3400 Old Montreal Road (PIN 145340140) and the parcel of land designated as PIN 145340139.

This report is prepared to illustrate the proposed servicing for Phase 1B of the proposed Sanctuary Lands. This report documents the means by which servicing will be provided for the proposed development and should be read in conjunction with the latest engineering drawings. Simmonds Architecture was retained by Humanics Universal Inc. and has prepared the latest Proposed Site and Landscape Plan for Phase 1B, drawing SP-1B, rev. 27 dated September 15, 2026. This Site Plan includes a new Concession Stand building in addition to the proposed Pavillion and Workshop Buildings. The latest architectural drawings note the Pavillion Building as a Hoop Quonset – by others, with an adjacent Concession Stand. The Concession Stand building includes a kitchen and washroom. The civil drawings and report have been updated to reflect this revision to the development.

The Site Servicing for Phase 1B of the Sanctuary Lands has been completed by exp Services Inc. along with Morrison Hershfield as noted in the reports listed in Section 2 below.

2 Previous Reports and Referenced Guidelines

Reports that were reviewed and referenced, include:

- Site Servicing and Stormwater Management Report, Humanics Sanctuary, dated November 25, 2002 by exp Services Inc.
- Stormwater Management Design Brief Memorandum, Humanics Sanctuary & Sculpture Park, Revision 1, dated December 3, 2021, by Morrison Hershfield.
- Phase One Environmental Site Assessment 3400 Old Montreal Road, Ottawa, Ontario, dated March 2016, by exp Services Inc.
- Hydrogeology, Terrain Analysis and Impact Assessment, 3400 Old Montreal Road, Ottawa, Ontario, updated November 25, 2022, by exp Services Inc.
- Geotechnical Investigation, Proposed Humanics Sanctuary and Sculpture Park, updated November 25, 2022, by exp Services Inc.

In addition, various design documents were referred to when preparing this report including:

- Sewer Design Guidelines, Fourth Edition, Document SDG004, December 2025, City of Ottawa (Guidelines) including:
- Ontario Ministry of Transportation (MTO) Drainage Manual, 1995-1997
- Stormwater Management Planning and Design Manual, Ontario Ministry of the Environment and Climate Change, March 2003 (SMPDM).
- Low Impact Development Stormwater Management Planning and Design Guide, Version 1.0. Credit Valley Conservation and Toronto & Region Conservation (LIDSMPDG).

3 Existing Site Conditions

The site is located on the south side of Old Montreal Road, approximately 440 m west of Beckett's Creek Road as shown on Figure 1 in Appendix A. The site is zoned Rural Residential 1. The municipal address of the proposed site is 3468 Old Montreal Road (PIN 145340141) and a portion of 3400 Old Montreal Road (PIN 145340140) in the City of Ottawa.

The subject site is bisected by a hydro corridor with overhead transmission lines mounted on wooden hydro poles which are found at two locations on the subject site. Surrounding properties consist of Old Montreal Road to the north of the property, vacant land to the south (which will become Cumberland Estates Phase 2), a residential property to the east, and vacant woodlots to the west.

Phase 1A of the contemplated development consisting of a gravel road access, washrooms and septic system has been constructed. The remainder of the site remains primarily undeveloped with stone dust covered pathways and a number of stone sculptures.

4 Proposed Phased Development

As discussed, the approved contemplated development has been phased into Phase 1A and Phase 1B.

- Phase 1A has been constructed and includes the gravel roadway+ access, washrooms and septic system.
- Phase 1B proposes the extension of the existing access road and the construction of three small buildings; a proposed concession stand, pavilion and pre-fabricated workshop, refer to Appendix B for architectural plans of the proposed buildings. As part of Phase 1B, contemplated LID stormwater management measures designed by Morrison Hershfield will also be constructed.

5 Stormwater Management / Drainage

The stormwater management detailed design for the overall site development has been completed by Morrison Hershfield as per the *Stormwater Management Design Brief Memorandum, Humanics Sanctuary & Sculpture Park, Revision 1, dated December 3, 2021*.

The proposed development will adhere to the contemplated stormwater quantity and quality control measures specified in the above-mentioned report.

6 Water Servicing

6.1 Estimated Water Demands

Water demands for the site have been calculated based on projected population and land use. Appendix 4-A of the *Sewer Design Guidelines* provides estimated flows per person for public parks (20 L/day) and assembly halls (8-36 L/day). The projected population of the public park was estimated at 50 persons and maximum occupancy of the assembly hall was estimated at 100 persons.

Water demands were assumed to match the estimated sanitary flows from the proposed development as follows.

- Public Park; = 50 persons x 20 L/day = 1,000 L/day
- Assembly Hall; 100 persons x 36 L/day = 3,600 L/day
- Total Average daily Demand = 4,600 L/day (0.05 L/sec)
- Maximum Daily Demand (x 1.5) = 6,900 L/day (0.08 L/sec)
- Maximum Hourly Demand (x 1.8) = 12,420 L/day (0.14 L/sec)

All buildings onsite are proposed to be serviced by drilled wells.

6.2 Fire Flow Demands

Fire flow demand for the proposed assembly hall was calculated per section 4.2 in the *NFPA 1142 – Standard on Water Supplies for Suburban and Rural Fire Fighting*.

The minimum water supply required for the proposed assembly hall was calculated using section 4.2 - Structures with Exposure Hazards. An exposure hazard was allocated for the new concession stand that is located with 3m or 10ft of the Pavillion. NFPA 1142 Section 4.1.5 requires an exposure hazard to be considered if the building is larger in area of 9.3m² and closer that 15.24m to another structure. The equation below was used to determine the minimum required supply.

$$WS_{min} = \frac{VS_{tot}}{OHC} (CC) \times 1.5$$

where:

WS_{min} = minimum water supply in gal (For results in L, multiply by 3.785.)

VS_{tot} = total volume of structure in ft³ (If volume is measured in m³, multiply by 35.3.)

OHC = occupancy hazard classification number

CC = construction classification number

Using the following parameters; $VS_{total} = 23,885 \text{ ft}^3$, $OHC = 6$, and $CC = 1.5$, Exposure Hazard = 1.5. The total minimum water supply required for the assembly hall was calculated to be 8,956 gallons.

As per table 4.6.1 in *NFPA 1142*, the minimum water capability of a fire department to deliver water for a water supply requirement of 8,956 gallons is 500 gpm.

The subject property is located within near proximity of Fire Station 72 located at 1442 old Montreal Rd within District 7.

The Ottawa Fire Services (OFS) have obtained the *Superior Tanker Shuttle* accreditation as part of the FUS. The purpose of the testing is to measure OFS' ability to deliver an uninterrupted water supply of 500gpm at the five (5) minute mark of arriving on scene in rural areas without hydrants. OFS exceeded test requirements, maintaining water flows of over 500gpm for an indefinite period. Therefore, it is anticipated the Ottawa Fire Services will have enough capacity to meet the proposed fire flow demands.

6.3 Well Yields

Two wells have been drilled onsite. The first well, Well #1, has been drilled to the west of the parking lot. The second well, Well #2, has been drilled to the north of the proposed assembly hall building.

The well yield for Test Well # 1 was determined to be above 27 L/min (0.45 L/sec) and the well yield for Test Well # 2 was determined to be 45 L/min (0.75 L/sec). Based on the safe well yields noted in the "Hydrogeology, Terrain Analysis and Impact Assessment Report", the onsite wells can supply the calculated maximum hourly demand of 8.63 L/min (or 0.14 L/sec) anticipated for the development of Phase 1B.

7 Sanitary Servicing

For sewage treatment an onsite septic system constructed as part of Phase 1A will be used to service the proposed assembly hall and existing washrooms. The existing septic system was sized to treat maximum sanitary flows of 4,600 L/day. With the Concession Stand building the sewage design flow of 4,600 L/day remains the same, but there has been a slight increase in the number of fixture units from 19 to 27.5. Green Valley Environmental Inc. have applied for an amendment to the Rideau Valley Conservation Authority. Refer to Appendix C for the original Permit and the Application for an Amendment.

Proposed flows from Phase 1B adhere to the contemplated flows of the existing septic system.

8 Erosion & Sediment Control During Construction

During all construction activities, erosion and sedimentation shall be controlled by the following techniques:

- Limiting the extent of exposed soils at any given time.
- Re-vegetation of exposed areas as soon as possible.
- Minimization of area to be cleared and disruption to adjacent areas.
- Sediment control barriers are to be installed in the locations as shown on drawings.
- A visual inspection shall be completed of the sediment control barriers and outlets and any damage repaired immediately. Care will be taken to prevent damage during construction operations.

- In some cases, barriers may be removed temporarily to accommodate the construction operations. The affected barriers will be reinstated at night when construction is completed.
- The sediment control devices, ditches, swales, culverts and perforated pipes will be cleaned of accumulated silt as required. The deposits will be disposed of as per the requirements of the contract.
- During the course of construction if the engineer believes that additional prevention methods are required to control erosion and sedimentation, the contractor will install additional silt fences or other methods as required to the satisfaction of the engineer.
- Construction and maintenance requirements for erosion and sediment controls to comply with Ontario Provincial Standard Specification (OPSS) OPSS 805, and City of Ottawa specifications F-1005.
- The contractor shall seed the swale channel and side slopes as soon as possible, regularly monitor and provide erosion control measures as required, to allow for the establishment of the grass.
- Rip-rap protection shall be installed at the swale outlet locations, as noted on the drawings.

9 Conclusions

The proposed development, referred to as Humanics Sanctuary Phase 1B, is a phased institutional development which proposes the extension of the existing access road and the construction of two small buildings on the south side of Old Montreal Road, approximately 440 m west of the intersection between Beckett's Creek Road and Old Montreal Road.

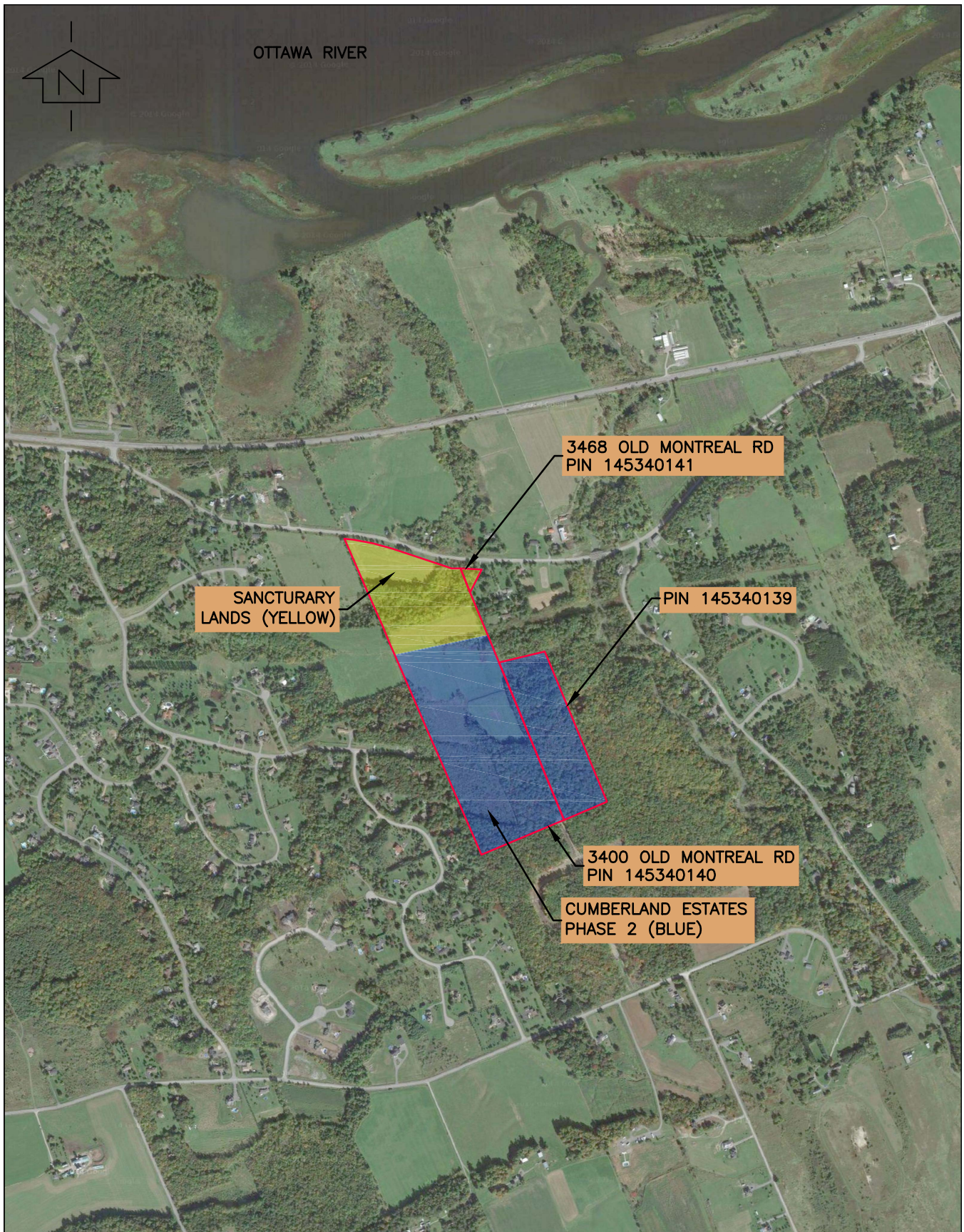
The following summarizes the stormwater management, water system, and sanitary collection and treatment design for this proposed development.

- The proposed assembly hall will be serviced by the existing septic system. Flows from the proposed assembly hall adhere to contemplated flow of the existing septic system.
- Water supply for the site will be serviced by two wells that have been drilled onsite.
- It is anticipated that Ottawa Fire Services will meet the estimated minimum required water supply of 500 gpm.
- Stormwater quantity and quality measures are proposed to achieve the design criteria as per Stormwater Management Design Brief Memorandum, Humanics Sanctuary & Sculpture Park, Revision 1, dated December 3 ,2021, by Morrison Hershfield.

Appendix A – Figures

Figure 1: Site Location Plan

Figure 2: Site Plan



exp Services Inc. 100-2650 Queensview Drive Ottawa, ON K2B 8H6 www.exp.com		DESIGN JLF	HUMANICS SANCTUARY 3400, 3468 OLD MONTREAL RD SITE LOCATION PLAN	SCALE 1: 25,000
		DRAWN SAB		SKETCH NO
		DATE JAN 2017		FIG 1
		FILE NO 229886		

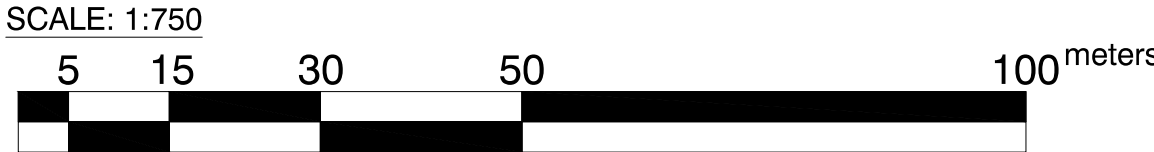
SKETCH SHOWING
PART OF LOT 7
CONCESSION 1 (OLD SURVEY)
GEOGRAPHIC TOWNSHIP OF CUMBERLAND
Now CITY OF OTTAWA

3400 Old Montreal Rd. - RR1 Zoning

SITE INFORMATION	
SITE AREA	12.535 acres (50,727 m²)
GROSS BUILDING AREA	366.55 m²
% OF BUILDING AREA	0.72%
BUILDING HEIGHT (WORKSHOP)	5.58m
BUILDING HEIGHT (PAVILLION)	6.30m
BUILDING HEIGHT (CONSESSION)	2.75m
BUILDING HEIGHT (WASHROOMS)	2.75m
BUILDING HEIGHT (TICKET BOOTH)	2.75m

WORK SHOP	128.25m²
PAVILLION	149m²
CONSESSION	38m²
WASHROOMS	24m²
TICKET BOOTH	27.3m²
TOTAL	366.55m²

SCULPTURE PARK	0	15
PAVILLION (10 per 100m² GFA)	15	15
WORK SHOP (10 per 100m² GFA)	13	13
TOTAL	28	43



LEGEND:

- EXISTING STATUE
- PROPOSED STATUE
- MEDITATION AREA
- LIMIT OF DEVELOPMENT
- TOP OF CREST
- ENVIRONMENTAL SETBACK
- EROSION ALLOWANCE
- LIMIT OF HAZARDOUS LANDS
- 2.6m x 5.2m PARKING SPACE (TYP)
- 3.4m x 5.2m ACCESSABLE PARKING + 1.5m x 5.2m LOADING SPACE

LANDSCAPE LEGEND:
(LANDSCAPE INFORMATION PROVIDED BY HUMANICS UNIVERSAL INC.)

QTY.	PROPOSED TREES
55	BLUE SPRUCE
35	CEDAR
1	WHITE PINE
14	ORCHARD (APPLE, PEAR, PLUM, MULBERRY)
	PERENNIAL GARDENS

Holzman Consultants Inc.
prepared the proposed site plan from revision 1 through 14.

EXP Services Inc.
prepared the proposed site plan from revision 15 through 25.

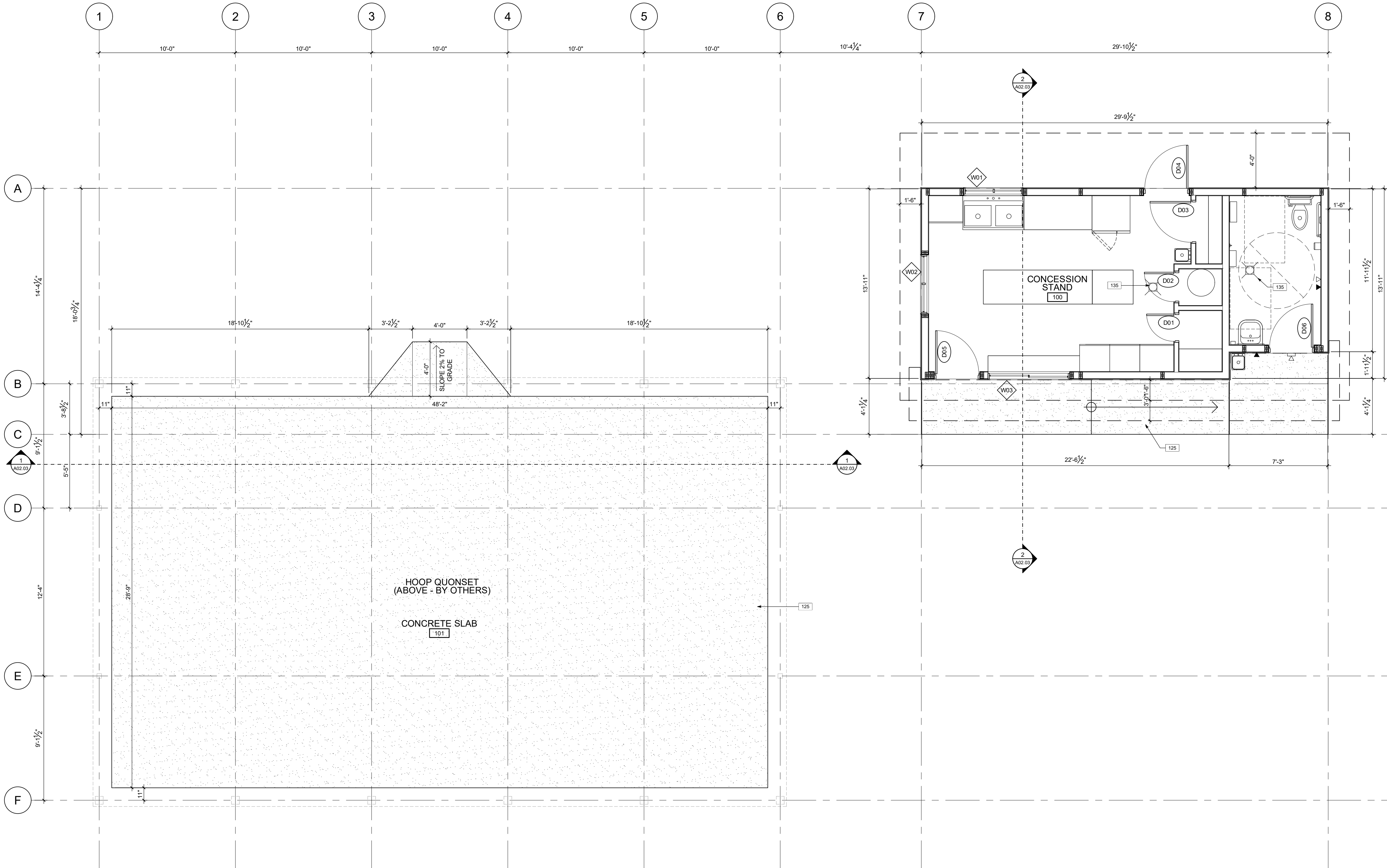
7	STATUE LOCATIONS	5/15/2016	SB	BH	14	BUTTERNUT TREE LOCATIONS	5/25/2017	SB	BH	21	REVISED PER CITY COMMENTS	05/10/23	AAS	BMT	27	ISSUED FOR SP AMENDMENTS	15/09/26	EF	CS	SCALE 1:750 	DESIGNED BY	REVIEWED BY 	CLIENT Humanics Universal Inc. simmonds ARCHITECTURE 340 Catherine Street Ottawa, ON K1R 1C4 613.567.7800 www.simmonds.com	PROJECT Humanics Sanctuary Proposed Site and Landscape Plan Phase 1B	PROJ. NO. 913-25
6	EMERGENCY VEHICLE ACCESS	5/10/2016	SB	BH	13	REVISED BUILDING NAME & BUILDING LOCATION	1/21/2017	SB	BH	20	ISSUED FOR PHASE 1B SUBMISSION	12/05/23	AAS	BMT	27	ISSUED FOR SP AMENDMENTS	22/04/26	RS	CS						SURVEY N/A
5	REVISED MAIN DRIVEWAY ENTRANCE	4/26/2016	SB	BH	12	REVISED LIMIT OF HAZARDOUS LANDS	12/20/2016	SB	BH	19	ISSUED FOR PHASE 1B SUBMISSION	02/09/22	SAB	BMT	26	ISSUED FOR SP AMENDMENTS	05/03/25	AAS	BMT						DATE SEP. 15/26
4	REVISED REAR VEHICLE ACCESS ROAD	4/25/2016	SB	BH	11	REVISED LIMIT OF DEVELOPMENT, TOP OF CREST & DRIVEWAY ROUTING	12/7/2016	SB	BH	18	ISSUED FOR PHASE 1A SUBMISSION	17/08/22	SAB	BMT	25	REVISED PER HYDRO COMMENTS	18/10/24	AAS	BMT						
3	REVISED 3.5m LAYBY AT TEMPLE	4/10/2016	SB	BH	10	REVISED SITE STATISTICS	6/5/2016	SB	BH	17	REVISED PER CITY COMMENTS	26/4/2022	JH	BMT	24	REVISED PER HYDRO COMMENTS	19/07/24	SAB	BMT						
2	REVISED FOOTPATHS & DEV. LINES	2/3/2016	SB	BH	9	ADDED MEDITATION AREA	5/30/2016	SB	BH	16	ISSUED FOR SITE PLAN AMENDMENT	12/3/2021	AJ	BMT	23	CITY FILE NUMBER UPDATED	05/04/24	AAS	BMT						
1	REVISED WITH TOP OF CREST	1/22/2016	SB	BH	8	REMOVAL OF CURBS	5/25/2016	SB	BH	15	WORKSHOP UPDATED (by EXP.)	3/16/2021	SAB	BMT	22	REVISED PER CITY COMMENTS									
NO.	REVISION DESCRIPTION	DATE	BY	APPD	NO.	REVISION DESCRIPTION	DATE	BY	APPD	NO.	REVISION DESCRIPTION	DATE	BY	APPD	NO.	REVISION DESCRIPTION	DATE	BY	APPD						SP-1B

exp Services Inc.

Humanics Universal Inc.
Humanics Sanctuary-Phase 1B
Site Servicing Report
OTT-00229886-A0
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Appendix B – Architectural Plans





PLAN NOTES

- 100 30-40 mm DIA. 750 mm x 750 mm CONTINUOUS L-SHAPED GRAB BAR CONFORMING TO O.B.C. DIV. 2 3.8.3.8.(5) & (7) W/ 50 mm HAND CLEARANCE C/W SLIP RESISTANT SURFACE FINISH. PROVIDE BLOCKING AS REQUIRED
- 101 30-40 mm DIA. 600 mm GRAB BAR CONFORMING TO O.B.C. DIV. 2 3.8.3.8.(6)&(7) W/ 50 mm HAND CLEARANCE C/W SLIP RESISTANT SURFACE FINISH. PROVIDE BLOCKING AS REQUIRED
- 102 BARRIER-FREE COMPLIANT TOILET W/ TANK, ELONGATED BOWL, & SEAT HEIGHT 430-485 mm A.F.F. CONFORMING TO O.B.C. DIV. 2 3.8.3.9.
- 103 EMERGENCY CALL SYSTEM BUTTON WITH AUDIBLE & VISUAL SIGNAL, MOUNTED 35.5"-43.5" A.F.F. PROVIDE EMERGENCY SIGN THAT CONTAINS THE WORDS "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE" IN LETTERS AT LEAST 25 MM (1") HIGH WITH A 5 MM (3/16"), POSTED ABOVE THE EMERGENCY BUTTON
- 104 TOILET PAPER DISPENSER
- 105 WALL MOUNTED EMERGENCY CALL SYSTEM AUDIO & VISUAL SIGNAL DEVICES LOCATED ABOVE THE DOORWAY WITHIN AND OUTSIDE THE WASHROOM IN CONFORMANCE W/ O.B.C. DIV. 2 3.8.3.12.(2)(a)
- 106 CIRCULAR 150 mm DIA. (MIN.) OR RECTANGULAR 50 mm x 100 mm (MIN.) POWER DOOR OPERATOR CONTROL PADDLE LOCATED IN CONFORMANCE W/ O.B.C. DIV. 2 3.8.3.3.(17)
- 107 CIRCULAR 150 mm DIA. (MIN.) OR RECTANGULAR 50 mm x 100 mm (MIN.) POWER DOOR OPERATOR CONTROL PADDLE LOCATED IN CONFORMANCE W/ O.B.C. DIV. 2 3.8.3.3.(17). - MAINTAIN 12" CLEARANCE FROM DOOR OPENING
- 108 914 mm x 559 mm x 102 mm BARRIER-FREE COMPLIANT WALL-MOUNTED LAVATORY SINK
- 109 WALL SURFACE-MOUNTED SOAP DISPENSER. TO BE OPERABLE USING A CLOSED FIST. LOCATE NOT MORE THAN 43-51/16" AFF, AND 19-11/16" FROM THE FRONT OF THE LAVATORY
- 110 COMBINED GARBAGE & PAPER TOWEL DISPENSER. TOWEL DISPENSER TO BE OPERABLE WITH ONE HAND. DISPENSING HEIGHT MAX 47.25" AFF
- 111 COAT HOOK CONFORMING TO O.B.C. DIV. 2 3.8.3.8.(1)(e) W/ MAX PROJECTION OF 50 mm FROM FINISHED FACE OF WALL
- 112 WALL MOUNTED SHELF. MAX. DEPTH 100 mm FROM WALL FINISH IN CONFORMANCE W/ O.B.C. DIV. 2 3.8.3.12.(1)(g).
- 113 WALL MOUNT MIRROR
- 114 "PUSH TO LOCK" PUSH BUTTON ACTIVATING DOOR ELECTRIC STRIKE.
- 115 UPRIGHT FREEZER
- 116 UPRIGHT FRIDGE
- 117 DOUBLE SINK
- 118 WORKSTATION/COUNTER WITH STORAGE BELOW
- 119 UNDER-COUNTER DISHWASHER - COMMERCIAL GRADE
- 120 HAND-WASH SINK - WALL MOUNT
- 121 HAND-WASH SINK - WALL MOUNT - EXTERIOR GRADE
- 122 HOT WATER TANK - SECURE TO FRAMING
- 123 SHELVING
- 124 RATIONAL ICOMBI PRO 6-HALF WALL OVEN w/ INTEGRATED VENT-LESS CONDENSATION HOOD
- 125 REINFORCED CONCRETE SLAB-ON-GRADE WITH THICKENED PERIMETER
- 126 RIGID INSULATION FROST PROTECTION
- 127 HOOP QUONSET AND SUPPORTING STRUCTURE BY OTHERS
- 128 STANDING SEAM METAL ROOFING
- 129 METAL FLASHING w/ DRIP EDGE
- 130 2-PLY MODIFIED BITUMEN
- 131 PREFINISHED METAL DRAIN - 3 1/2"
- 132 OUTLINE OF FRAMING ABOVE/BELOW
- 133 WEAVING TILE SYSTEM. 4" DIAMETER PERFORATED PLASTIC DRAIN PIPE w/ FILTER FABRIC SURROUND COVERED IN 8" MIN. CRUSHED STONE OR GRAVEL
- 134 1% SLOPE TO DRAINS
- 135 FLOOR DRAIN

GENERAL NOTES

- A THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT.
- B DO NOT SCALE DRAWINGS.
- C ALL WORK SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
- D THIS DRAWING IS THE EXCLUSIVE PROPERTY OF CHRISTOPHER SIMMONDS ARCHITECT INC. COPYRIGHT RESERVED.

01	2025.11.26	ISSUED FOR PERMIT
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No.	DATE	DESCRIPTION
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ARCHITECT'S SEAL: PROJECT NORTH:



simmonds
ARCHITECTURE

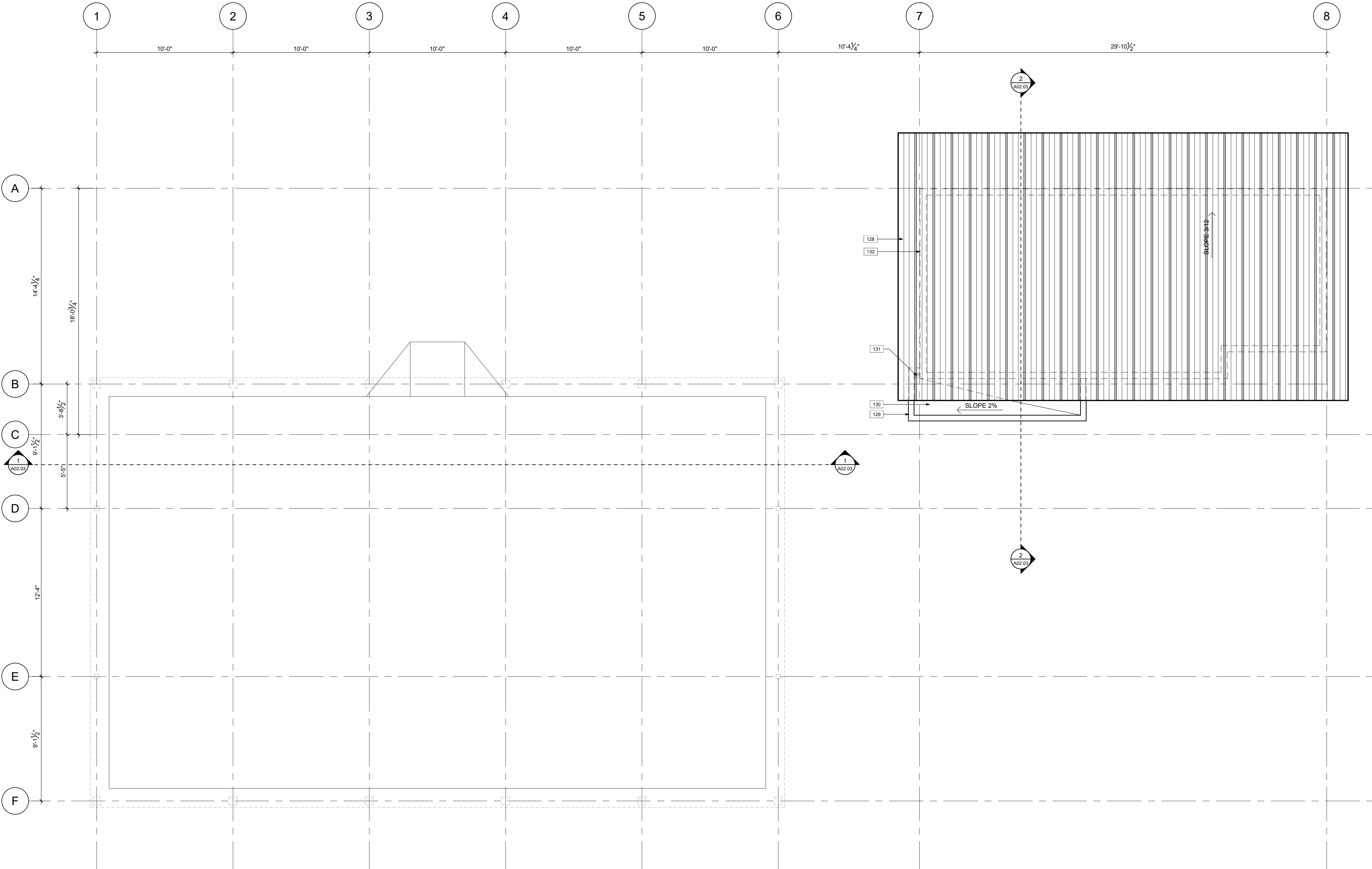
340 Catherine Street
Ottawa, ON K1R 1C4
613.567.7888
simmondsarch.com

PROJECT:
HUMANICS PARK - OUTBUILDINGS
3468 OLD MONTREAL RD.
OTTAWA, ON, K4C 1C8

DRAWING TITLE:
GROUND FLOOR PLAN

DATE:	2025.10.29	DRAWING No:
SCALE:	1/4" = 1'-0"	
DRAWN BY:	JAH	
JOB No:	913-25	

A01.01

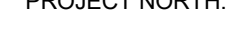


PLAN NOTES (1X)

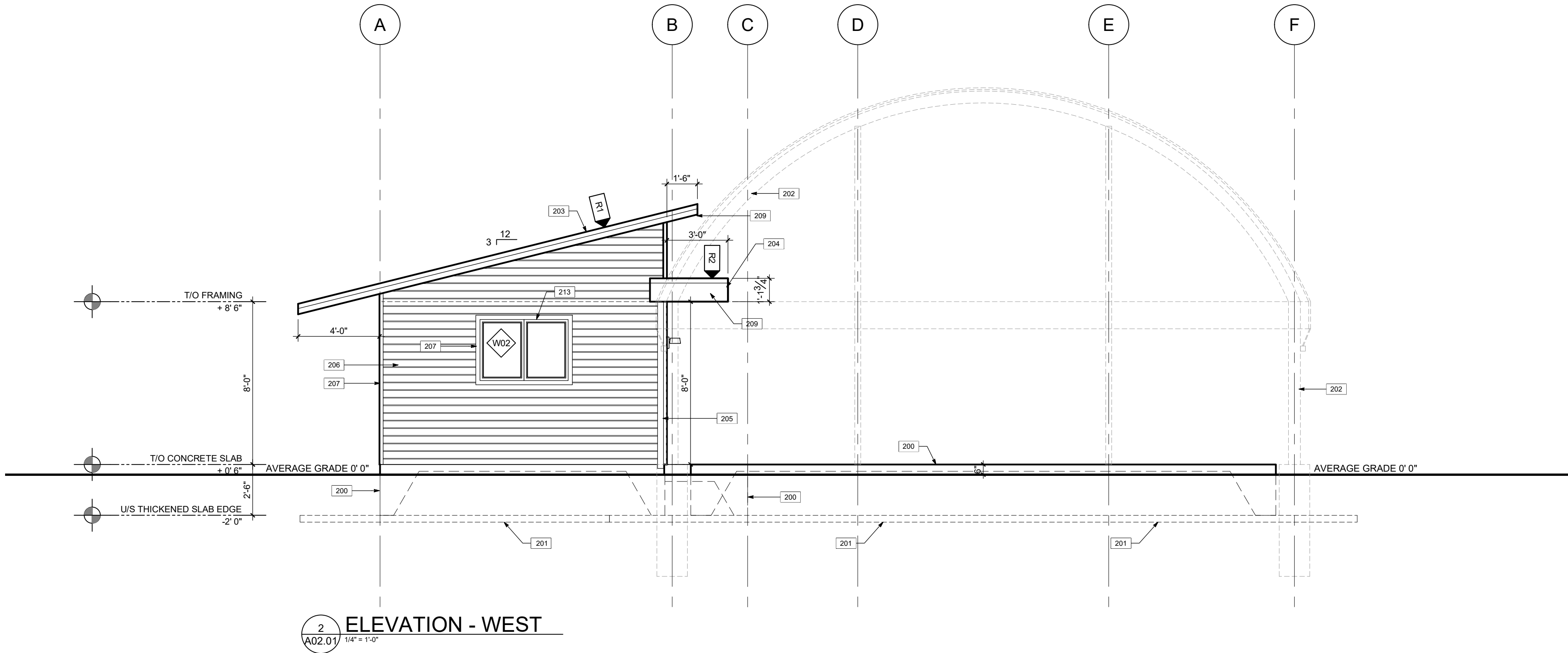
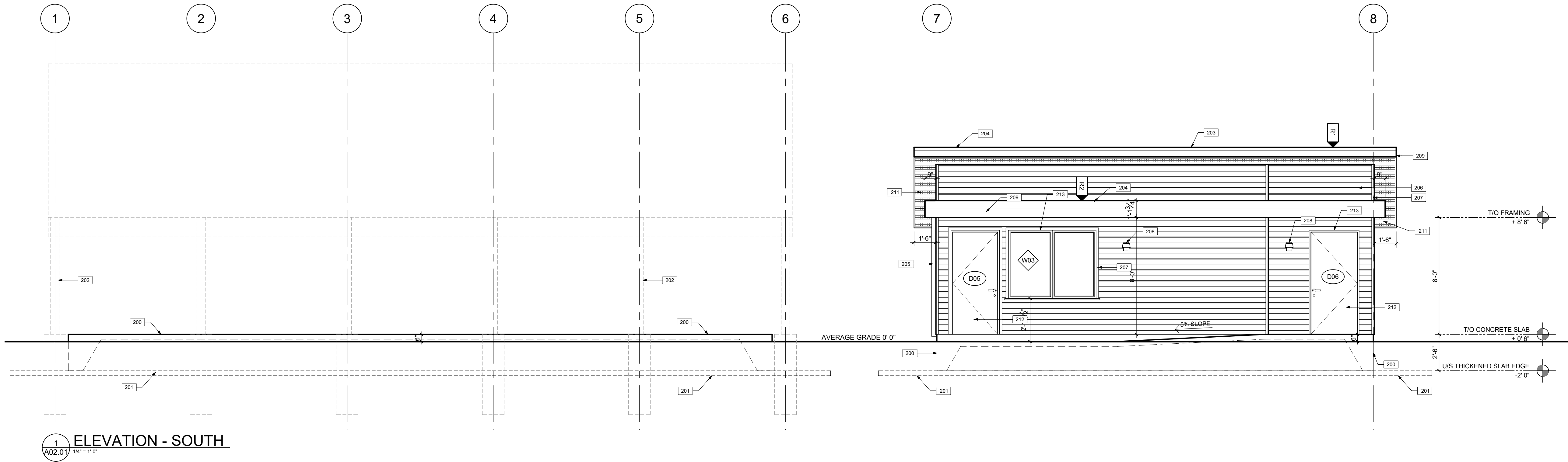
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- 117 DOUBLE-SINK
- 118 WORKSTATION/COUNTER WITH STORAGE BELOW
- 119 UNDER-COUNTER DISHWASHER - COMMERCIAL GRADE
- 120 HAND-WASH SINK - WALL MOUNT
- 121 HAND-WASH SINK - WALL MOUNT - EXTERIOR GRADE
- 122 HOT WATER TANK - SECURE TO FRAMING
- 123 SHELVING
- 124 RATIONAL ICOMBI PRO 6-HALF WALL OVEN w/ INTEGRATED VENT-LESS CONDENSATION HOOD
- 125 REINFORCED CONCRETE SLAB-ON-GRADE WITH THICKENED PERIMETER
- 126 RIGID INSULATION FROST PROTECTION
- 127 HOOP QUONSET AND SUPPORTING STRUCTURE BY OTHERS
- 128 STANDING SEAM METAL ROOFING
- 129 METAL FLASHING w/ DRIP EDGE
- 130 2-PLY MODIFIED BITUMEN
- 131 PREFINISHED METAL DRAIN - 3 1/2"
- 132 OUTLINE OF FRAMING ABOVE/BELOW
- 133 WEEPING TILE SYSTEM: 4" DIAMETER PERFORATED PLASTIC DRAIN PIPE w/ FILTER FABRIC SURROUND COVERED IN 8" MIN. CRUSHED STONE OR GRAVEL
- 134 1% SLOPE TO DRAINS
- 135 FLOOR DRAIN

GENERAL NOTES

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2025.11.26		ISSUED FOR PERMIT	
No.	DATE	DESCRIPTION	
ARCHITECT'S SEAL:		PROJECT NORTH:	
			
		340 Catherine Street Ottawa, ON K1R 1C4 613.567.7888 simmondsarch.com	
PROJECT: HUMANICS PARK - OUTBUILDINGS 3468 OLD MONTREAL RD. OTTAWA, ON, K4C 1C8			
DRAWING TITLE: ROOF PLAN			
DATE:	2025.10.29	DRAWING No:	
SCALE:	1/4" = 1'-0"		
DRAWN BY:	JAH		
JOB No:	913-25		

A01.02



ELEVATION NOTES

- 200 REINFORCED CONCRETE SLAB-ON-GRADE WITH THICKENED PERIMETER
201 HI-40 RIGID INSULATION FROST PROTECTION - EXTEND 48" FROM SLAB EDGE MINIMUM - 4" THICK
202 HOOP QUONSET AND SUPPORTING STRUCTURE BY OTHERS
203 STANDING SEAM METAL ROOFING
204 METAL FLASHING w/ DRIP EDGE
205 PRE-FINISHED METAL DRAIN - 3 1/2"
206 LAPPED WOOD SIDING
207 WOOD TRIM - 3-1/4"
208 EXTERIOR LIGHT FIXTURE - LED - WALL MOUNT
209 WOOD FASCIA BOARD WITH METAL CLADDING TO MATCH ROOFING MATERIAL
210 3 1/2" x 3 1/2" WOOD POST - PAINT FINISH
211 VENTED SOFFIT w/ CLIPS - ALUMINUM
212 SOLID CORE METAL DOOR - INSULATED
213 FLASHING w/ DRIP EDGE AT ALL WINDOW/DOOR HEADS AND SILLS
214 WEEPING TILE SYSTEM: 4" DIAMETER PERFORATED PLASTIC DRAIN PIPE w/ FILTER FABRIC SURROUND COVERED IN 8" MIN. CRUSHED STONE OR GRAVEL
215 BACKFILL, NON-FROST SUSCEPTIBLE, COMPACTED TO MIN. 95% PROCTOR TEST OR AS PER GEO-TECH REPORT
216 15M BARS @ 12" O.C. EACH WAY, PLACED 2" FROM TOP
217 REINFORCE SLAB EDGES w/ 4-15M BARS, CONTINUOUS c/w 24x24 CORNER BARS
218 15M BARS WRAPPED AROUND 15M EDGE REINFORCEMENT - TYPICAL

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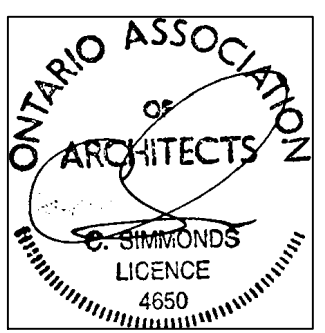


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No.	DATE	DESCRIPTION
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ARCHITECT'S SEAL:



PROJECT NORTH:

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ARCHITECTURE

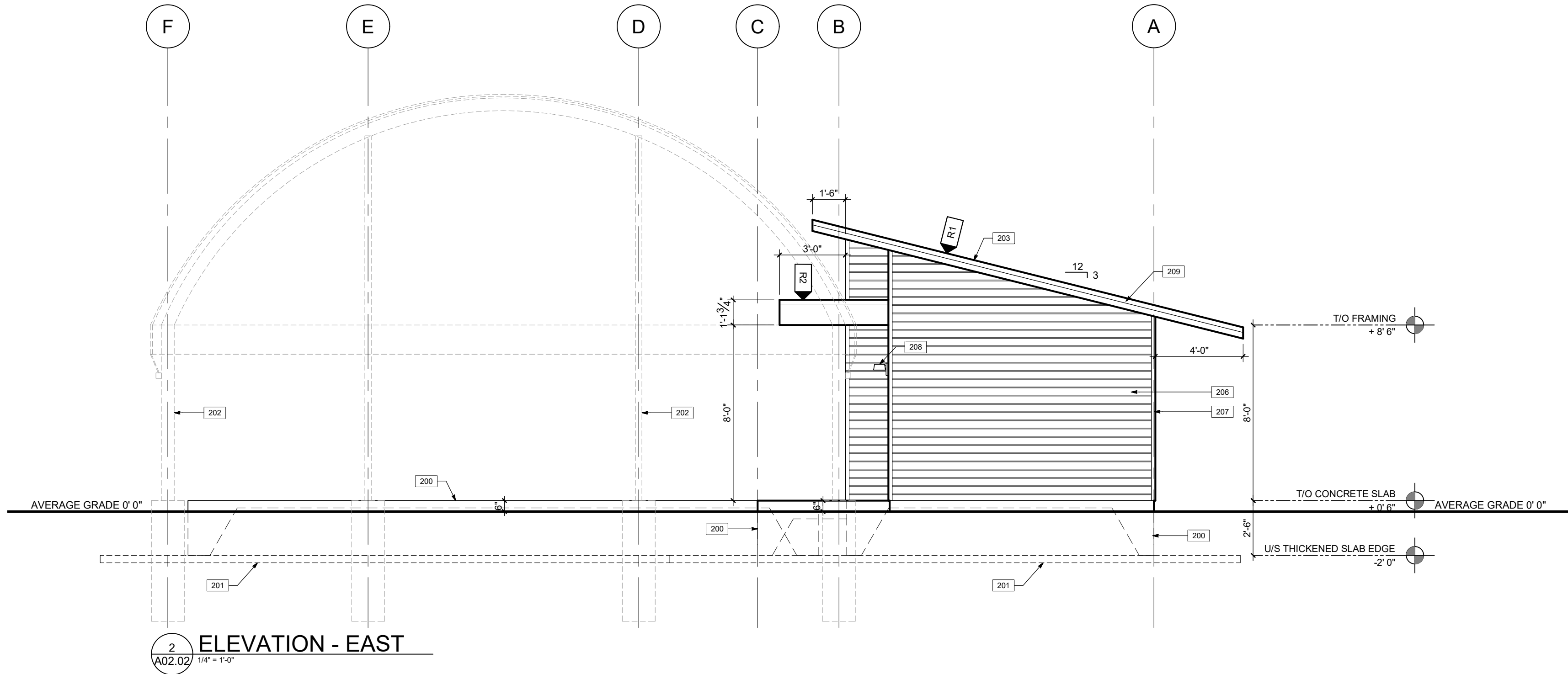
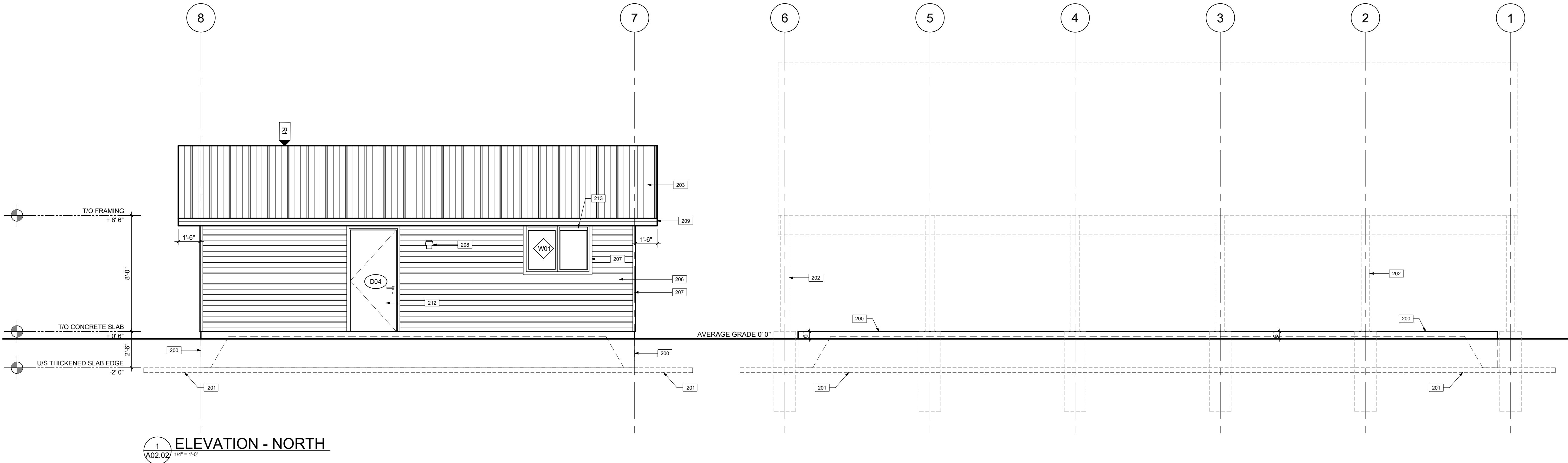
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Ottawa, ON K1R 1C4
613.567.7888
simmondsarch.com

PROJECT:
HUMANICS PARK - OUTBUILDINGS
3468 OLD MONTREAL RD.
OTTAWA, ON, K4C 1C8

DRAWING TITLE:
ELEVATIONS
SOUTH & WEST

DATE:	2025.10.29	DRAWING No:
SCALE:	1/4" = 1'-0"	
DRAWN BY:	JAH	
JOB No:	913-25	

A02.01



ELEVATION NOTES

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No.	DATE	DESCRIPTION
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ARCHITECT'S SEAL: PROJECT NORTH:



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ARCHITECTURE

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simmondsarch.com

PROJECT:
HUMANICS PARK - OUTBUILDINGS
3468 OLD MONTREAL RD.
OTTAWA, ON, K4C 1C8

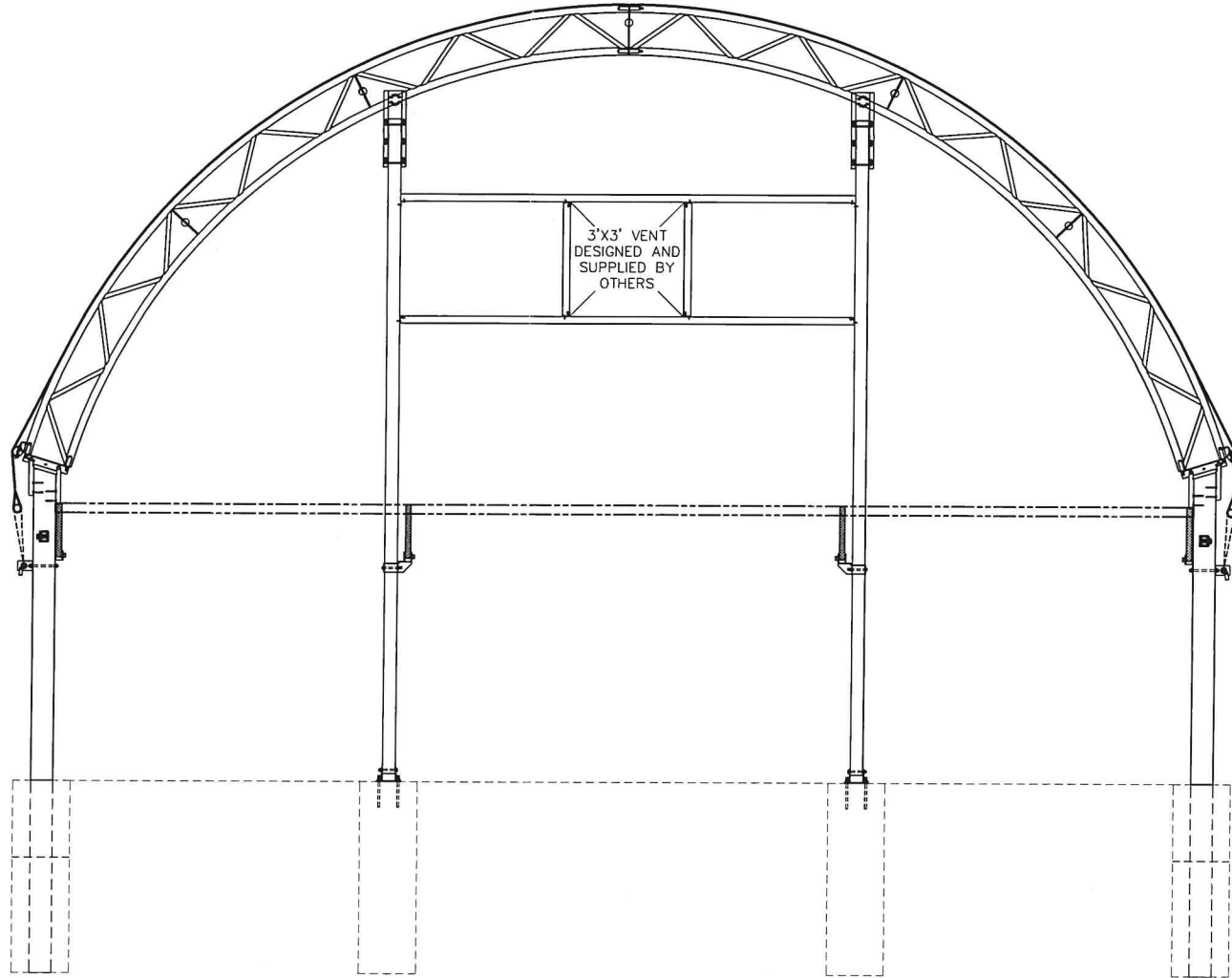
DRAWING TITLE:
ELEVATIONS
NORTH & EAST

DATE:	2025.10.29	DRAWING No:
SCALE:	1/4" = 1'-0"	
DRAWN BY:	JAH	
JOB No:	913-25	

A02.02

CERTIFICATE OF DESIGN AND MANUFACTURING CONFORMANCE			
1. DESCRIPTION			
Manufacturer's Name and Address		Calhoun Super Structures Ltd. 3702 Bruce Road 10, Tara ON	
Manufacturer's Certificate No. Under CSA A660		WELLIO	
Customer Order Number		406144	
Building Type and Size		CC 32x50	
Intended Use and Occupancy		Commercial	
Importance Category (NBC, Sentence 4.1.2.1(3))		Normal	
Site Location		3468 Old Montreal Rd, Cumberland, ON	
Latitude / Longitude		45°30'51.79"N, 75°21'53.13"W	
Applicable Building Code		Ontario Building Code (OBC) 2012	
Builder's Name and Address		We Can Contracting Inc. - 5125 31, Morrisburg, ON K0C 1X0	
Owner's Name		Humanics Universal Inc	
2. DESIGN STANDARDS			
See GENERAL STRUCTURAL NOTES, Sheet GSN		* <i>S.S.</i>	
3. MANUFACTURING STANDARDS			
a. Fabrication has been, or will be, in accordance with CSA-S16 and CSA-S136, as applicable.		* <i>S.S.</i>	
b. Welding has been, or will be, performed in accordance with CSA-W59 and CSA-S136, as applicable.			
c. The manufacturer has been certified in accordance with CSA-W47.1, for Division 1 or 2			
e. Welders have been qualified in accordance with CSA-W47.1.			
4. PURLIN STABILITY			
Purlin braces are provided in accordance with CSA-S136, Clause D3 and Appendix B, Clause D3.2.3.		* <i>S.S.</i>	
5. LOADS			
a. Snow and Rain Load		* <i>S.S.</i>	
1-in-50 year ground snow load, Ss		2.4 kPa	
1-in-50 year associated rain load, Sr		0.4 kPa	
Wind exposure factor, Cw		0.75/1.0	
Basic roof snow load factor, Cb		0.8	
Importance factor, Is		0.8	
Roof snow load, S		1.47 kPa	
Drift load considered (NBC Sub-section 4.1.6.2.8) refer to drawing of specific building			
Specified rain load (NBC, Article 4.1.6.4)		N/A mm	
b. Full and Partial Snow Load		* <i>S.S.</i>	
(i) Applied on any one and any two adjacent spans of continuous purlins.			
(ii) Applied on any one and any two adjacent spans of modular rigid frames with continuous roof beams.			
(iii) Applied as described for the building geometry in NBC, Part 4, and in the User's Guide - NBC 2010 Structural Commentaries (Part 4), Commentary G: Snow Loads.			
c. Wind Load		* <i>S.S.</i>	
1-in-50 year reference velocity pressure		0.41 kPa	
Importance Factor, Iw		1.0	
d. Wind Load Application		* <i>S.S.</i>	
(i) Applied as per NBC, Part 4, Sub-section 4.1.7			
(ii) Pressure coefficients as per User's Guide - NBC 2010 Structural Commentaries (Part 4), Commentary I: Wind Loads, Figures I3 through I12			
(iii) Building internal pressure category III per User's Guide - NBC 2010			
e. Crane Loads (where applicable)		N/A	
Type _____ (top-running) (under-running) (jib)			
Capacity _____ (tonnes)			
Wheel Base _____ (m)			
Maximum static, vertical wheel load _____ (kN)			
Vertical impact factor _____			
Lateral factor _____ (%) lateral wheel load _____ (kN)			
Longitudinal factor _____ (%) maximum longitudinal load _____ (kN/side)			
f. Mezzanine Live Load		* <i>S.S.</i>	
		N/A kPa	
g. Seismic Load		* <i>S.S.</i>	
Applied as per NBC, Part 4, Sub-section 4.1.8			
Sa(0.2) 0.497		Fa 1.2	
Sa(0.5) 0.261		Fv 1.45	
Sa(1.0) 0.127		Ie 0.8	
Sa(2.0) 0.059		Site Class D	
h. Other Live Loads		N/A	
None		N/A kPa	
i. Dead Loads		* <i>S.S.</i>	
Dead load of building components incorporated in design		0.075 kPa	
Collateral load (mechanical, ceiling, sprinklers, etc.)		0.012 kPa	
Mezzanine		N/A kPa	
Other (specify)		N/A kPa	
j. Load Combinations		* <i>S.S.</i>	
Applied in accordance with NBC, Part 4, Section 4.1			
6. GENERAL REVIEW DURING CONSTRUCTION			
The manufacturer does not provide general review during construction for regulatory purposes.			
7. CERTIFICATION BY ENGINEER			
I, Bridget Devitt, a Professional Engineer licensed to practice in the Province or Territory of Ontario, hereby certify that I have reviewed the design and manufacturing process for the steel building system described. I certify that the foregoing statements, initiated by me, are true.			
Name: Bridget Devitt, M.Eng., P.Eng.		Affiliation: Consultant	

32' CC SUPERSTRUCTURE

[illegible]

DRAWING INDEX		
SHEET NAME	SHEET No.	TITLE
TS	1 OF 9	TITLE SHEET
GSN	2 OF 9	GENERAL STRUCTURAL NOTES
FOU	3 OF 9	FOUNDATION PLAN
FRA	4 OF 9	FRAMING PLAN
EL-A	5 OF 9	ELEVATION A
EL-B	6 OF 9	ELEVATION B
EL-C	7 OF 9	ELEVATION C
DET1	8 OF 9	DETAILS
DET2	9 OF 9	DETAILS

Calhoun Super Structures Ltd. 3702 Bruce Rd #10 Toru, Ontario, Canada N9M 2N0 1-800-265-3994 www.calhoun.ca www.calhounsuperstructure.com	 CALHOUN										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">NAME</th> <th style="width: 60%;">DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td>05/07/2007</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DRAWN</td> <td style="width: 10%;">R D B</td> <td style="width: 60%;">02/03/2021</td> </tr> <tr> <td>CHECKED</td> <td>A G B</td> <td>02/03/2021</td> </tr> </table> THE INFORMATION CONTAINED IN THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL AND IS THE SOLE PROPERTY OF CALHOUN SUPER STRUCTURES LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CALHOUN SUPER STRUCTURES LTD. IS PROHIBITED.	NAME	DATE		05/07/2007	DRAWN	R D B	02/03/2021	CHECKED	A G B	02/03/2021	TITLE SHEET 32' CC SERIES 406144 CC32x50 R0 SIZE D SHEET NAME _____ TS N T S SHEET 1 OF 9
NAME	DATE										
	05/07/2007										
DRAWN	R D B	02/03/2021									
CHECKED	A G B	02/03/2021									



GENERAL

1. DESIGN STANDARDS

The following standards are used in addition to the governing code which is noted on the Title Sheet of this drawing set. All referenced standards refer to the most recent revision unless noted otherwise.

AISC-Steel-Construction-Manual-13th Edition
Hollow Structural Sections, Connections and Trusses
North American Specification for the Design of Cold-Formed Steel Structural Members
CSA S16-09, Limit States design of Steel Structures
CSA S136-07, Cold Formed Steel Structural Members
ULC S109, Flame Tests of Flame Resistant Fabrics and Films

2. MANUFACTURING STANDARDS

- Fabrication in accordance with CSA S16 and CSA S136 (as applicable).
- Welding in accordance with CSA W59 and CSA S136 (as applicable).
- Calhoun Super Structures is certified in accordance with CSA W47.1 Division 2
- All Welders have been qualified in accordance with CSA W47.1
- These drawings have been prepared by the EOS primarily to safeguard against major structural damage and loss of life, not to limit damage or maintain function as per requirements of the current accepted building code as listed in the basis for design.
- Professional standards of care normally exercised under similar circumstances by reputable engineers in this area or similar localities have been used or exceeded in these drawings.
- Design of non-structural elements, (such as stairs, railings, non-load bearing walls, veneers, curtain walls, etc) and their attachments, are not included and must be provided by others unless specifically noted on these drawings.
- Design of prefabricated structural products, (such as wood trusses, steel joists, or concrete pre-cast elements, etc) is not included, and must be provided by others unless specifically noted on these drawings.
- Specification references, (such as ASTM, AISI, AWS, CCI, CISC, CSA, CWB etc) shall be the latest accepted version where noted on these drawings.

CONSTRUCTION

- An experienced licensed contractor with a working knowledge of applicable codes and industry accepted standard practices shall perform the work depicted in these drawings.
- All work shall conform to the minimum standards of the current accepted building code found in the basis for design and other codes, industry specific specifications, and standards listed herein. The contractor shall comply with requirements of all regulatory agencies with authority over any portion of the work. Work not explicitly shown on these drawings shall conform to all applicable codes and accepted standard practices.
- The contractor shall verify all dimensions, elevations, and conditions on these drawings with all other relevant construction discipline drawings prior to the start of construction. Notify the EOS in writing before the start of construction regarding discrepancies, omissions or variations, or they shall become the sole responsibility of the contractor. Notes and the specific details on these drawings take precedence over general structural notes and typical details.
- Construction methods are not explicitly included on these drawings. General sequences are shown for reference only. The contractor shall be solely responsible for all methods, sequences, and procedures of construction. The contractor shall provide adequate shoring, bracing, framework, etc. as required for the protection of life and property during construction.
- Excavation procedures including shoring and protection of adjacent property, structures, streets, and utilities shall be performed in compliance with local building codes, regulations, and safety requirements, and shall be the contractor's responsibility.
- Construction materials shall be spread out uniformly on structural systems such that design live loads are not exceeded.
- Openings, pockets, etc. shall not be placed in structural members unless specifically detailed on these drawings. When drawings by others show items in structural members not shown on the structural drawings, notify the EOS in writing to determine correct deposition.
- Site visits by the EOS are a resource for the contractor and shall not be considered as special inspections. Contractor and/or customer will be responsible for all costs incurred when requesting site visits by the EOS.
- As per CSA-S16-09, Section 29, Sub-section 29.7.2, Plumbness of Columns, (c): Column verticality shall not exceed 1/500 and shall be measured from the actual column centerline at the base of the column.

STRUCTURAL BOLT TORQUE VALUES					
SIZE		GR 5/A325			
DIA. (Inch)	THREADS PER INCH	TENSILE ksi (min.)	PROOF LOAD (lbs)	TORQUE CLAMP (lbs)	TORQUE DRY (ft-lbs)
3/8	16	120	6600	4950	30
7/16	14	120	9050	6780	50
1/2	13	120	12100	9050	75
5/8	11	120	19200	14400	150
3/4	10	120	28400	21300	260
1-1/4	7	105	71700	53800	1120

NOTE: TORQUE VALUES FOR REFERENCE ONLY. TURN OF THE NUT, CALIBRATED WRENCH OR OTHER APPROVED METHOD REQUIRED TO ENSURE BOLT TENSION.

STRUCTURAL STEEL

1.0 MATERIALS

- Structural steel members shall conform to the following ASTM (CSA G-40.21) with the following grades and material properties U.N.O.

SHAPE	CSA G40.21 DESIGNATION	ASTM DESIGNATION (SAE GRADE)	YIELD STRENGTH MPa (ksi)	TENSILE STRENGTH MPa (ksi)
STANDARD STEEL SHAPES	300 W	A36/44W	300 (44)	450-620 (65-80)
ROLLED WIDE FLANGE SECTIONS	350 W	A992	350 (50)	450 (65)
BARs AND PLATES	300 W	A36/44W	300 (44)	450-620 (65-80)
HSS - ROUND	350 W	G40.21 350W	350 (50)	450-650
HSS - SQ./REC.	350 W	A500 GRADE C	350 (50)	450-650
MECHANICAL TUBING	----	787-05	380 (55)	----
STRUCTURAL BOLTS	----	GRADE 5	----	724-827 (80)
	----	A325	----	724-827 (105-120)
	----	GRADE 8	----	827 (120)
	----	A490	----	1034 (150)
ANCHOR BOLTS	----	F1554 GR 36	248 (36)	400-558 (58-80)
	----	F1554 GR 55	380 (55)	517-655 (75-95)
	----	F1554 GR 105	724 (105)	125-150 (125-150)

- Structural steel shall be fabricated and erected in accordance with AISC/CISC specifications for the design fabrication and erection of structural steel buildings.

2.0 INSTALLATION

- Welders shall be AWS/CWB certified where required by jurisdictional authority. All welding shall use E70 series low hydrogen electrodes. All welding shall conform to the latest American Welding Society standards; welds on drawings are shown as shop welds. Contractor may shop weld or field weld at his discretion. All full penetration welds shall be tested and certified by an independent testing laboratory.
 - All bolts shall be installed as bearing-type connections with threads excluded from shear plane (type "x" connection), UNO. High-strength bolts shall be snug tightened using any AISC/CISC approved method and do not require special inspections unless noted otherwise. All bolts in slotted or oversize holes and all high-strength bolts shall be installed with washers.
 - All expansion or epoxy bolts shall have current approved rating (ICC-ES or equivalent) for material into which installation occurs. Headed studs shall conform to all requirements of the latest edition of the "recommended practices for stud welding" and the "structural welding code" published by AWS. All bolts, anchor bolts, expansion bolts, etc. shall be installed with steel washers at face of wood.
 - Grout beneath column bases or bearing plates shall be 5000psi (35MPa) minimum non-shrink flow-able grout or dry-pack. Install grout under bearing plates before framing member is installed. At columns, install grout under base plates after column has been plumbed but prior to floor or roof installation. Grout depth shall be sufficient to allow grout or dry pack to be placed beneath plate without voids.
 - All misc. welds not noted, including stiffeners, misc. plates, etc. shall be per AISC/CISC manual table J2.4 or in an AWS/CWB certified shop.
- ### LIGHT GAUGE STEEL FRAMING
- #### 1.0 MATERIALS
- All products to be manufactured by the current members of the steel stud manufacturers association. All galvanized studs and joist shall be formed from steel that corresponds to the minimum requirements of the latest addition of the AISI or CSA-S136. All structural members shall be designed in accordance with the Canadian Institute of Steel Construction (CISC) or American Iron and Steel Institute (AISI) specification for the design of cold-formed steel structural members (latest edition).
 - Structural drawings show only the primary structural framing elements of the system, and the contractor shall provide all accessories required for the complete and proper installation, as recommended by the manufacturer for the steel members used.
 - All welding shall be performed by welders experienced in light gauge structural steel framing work. All welds per AWS D1.3 or AWS D1.3 as applicable.

2.0 FRAMING

- Prior to fabrication of framing, that is designed and supplied by others, the contractor shall submit shop drawings to the EOS to obtain approval.
- All framing components shall be cut squarely for attachment to perpendicular members or as required for an angular fit against abutting members.
- Temporary bracing where required, shall be provided until erection is complete.
- Fastening of the components shall be with self-drilling screws or welding. Screws or welds shall be of sufficient size to insure the strength of the connection. All welds of galvanized steel shall be touched up with two coats of zinc-rich paint. Wire tying of components shall not be permitted.
- Screws shall be self-tapping pan head, hex head, or wafer head sheet metal screws. Screws which are removed shall be replaced by a screw of a larger diameter where the replacement is made into an existing hole. Replace all screws which strip out material. Screws shall be spaced no closer than 5/8" o/c and with a minimum free edge distance of 1/2". Screws No. 8 and larger shall have a minimum head size of 5/16".
- Any on-site welding during structure erection shall be performed by welders experienced in light gauge structural steel framing work.

FOUNDATION

1. Foundations were designed per minimum requirements of the current accepted building code as listed in the basis for design. A Geotechnical Engineer should be commissioned to provide a soils report prior to the completion of the structural design for this project. The EOS will not assume any liability beyond the minimum code requirements in the event that a Geotechnical Report is not provided.

2. Footings and Foundations:

Minimum allowable soil bearing pressure: 75 kPa UNO (1550 psf)

Minimum concrete strength: 20 MPa (2900 psi), 6% air

3. Cantilever Post walls:

Active Soil Pressure (eq. fluid weight) = 5.5 kPa/m (35 psf/ft)

Passive Soil Pressure per Rankine Method, phi = 30 deg

Sliding Resistance (friction) = 0.3

4. Footing excavations shall be clean and free from loose debris, standing water, or un-compacted material at the time of concrete placement.

5. Trenches and excavations under or adjacent to foundations or slabs shall be properly backfilled and compacted. Utility trenching parallel to the foundation shall be located a minimum distance equal to the depth of the trench from the foundation. The trench may approach the foundation at 90 degrees to the structure and may not exceed two and one half feet (0.76m) wide. The trench approach to the foundation may not be located closer than 8 feet (2.44m) from a corner of the structure.

6. All forms shall be properly braced to withstand the placement of fresh concrete.

7. Foundation walls may extend above grade and the finished floor systems will not be positioned to brace the top of the wall.

WOOD MATERIALS

1. Structural sawn lumber design values shall comply with the latest edition of the grading rules of the Western Wood Products Association (WWPA) or the West Coast Lumber Inspection Bureau (WCLIB). All sawn lumber shall be stamped with the grade match of an approved lumber grading agency. Structural sawn lumber components shall have the following minimum grade unless noted otherwise on the plans:

2. Glued-Laminated Beams (Glulam) shall be Rigidply Southern Pine combination 50 unless noted otherwise on the plans. The GLB beams shall have the following minimum properties: E=1,800,000 psi, Fb=2300 psi, Fv=165 psi. Fabrication and handling shall conform to the latest AITC and ASTM standards. Beams shall bear an appropriate grade stamp clearly noting its design properties.

3. Glued laminated structural members in contact with earth or exposed to weather shall comply with the latest edition of the American Wood Preservers Association standard AWPAC C2 or equivalent North American standard.

4. All other wood in contact with or exposed to weather shall comply with the latest edition of the American Wood Preservers Association standard AWPAC C16 for agricultural buildings and AWPAC C15 for any other applications.

5. The laminated, preserved wood posts meet CSA 080 Series -08-Wood Preservation, CSA -0122-06 (R2011) - Structural Glued-Laminated Timber and all design of wood components has been performed in accordance with CSA-086.1 "Engineering Design in Wood (Limit States Design)"

6. The contractor is solely responsible for the accurate placement of the Wood post foundation as shown on the Engineered drawings as verified by the permit official.

GENERAL NOTES

- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. RESOLVE DISCREPANCIES WITH THE BUILDING SUPPLIER.
- FINISHED FLOOR ELEVATION = 100'-0" U.N.O.
- ALL CONCRETE COMPONENTS ARE SUPPLIED BY OTHERS.

NOTE:
BUILDING IS DESIGNED TO BE
FREE STANDING.

STANDARD ABBREVIATIONS	
ABBREVIATION	DEFINITION
ACI	AMERICAN CONCRETE INSTITUTE
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ALT	ALTERNATIVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION
AWS	AMERICAN WELDERS SOCIETY
BOF	BOTTOM OF FOOTING
CAN	CANADIAN
CWS	CANADIAN WELDERS SOCIETY
CWB	CANADIAN WELDING BUREAU
CONT.	CONTINUOUS
DIA.	DIAMETER
EF	EACH FACE
EOS	ENGINEER OF STRUCTURE
EW	EACH WAY
FFE	FINISH FLOOR ELEVATION
FT	FOOT
GA	GAUGE
GLB	GLUE LAMINATED BEAM
GEN	GENERAL STRUCTURAL NOTES
HSS	HOLLOW STRUCTURAL SECTION
HORIZ	HORIZONTAL
IBC	INTERNATIONAL BUILDING CODE
ICC-ES	INTERNATIONAL CODE COUNCIL - EVALUATION SERVICES
KIP	KILOPOUND (1,000 LB)
KPS	KILOPASCAL
ksi	KIPS PER SQUARE INCH
MFR	MANUFACTURER
MAX	MAXIMUM
MIN	MINIMUM
MPa	MEGAPASCALS
MISC	MISCELLANEOUS
NBCC	NATIONAL BUILDING CODE OF CANADA
NFBC	NATIONAL FIRE BUILDING CODE
NTS	NOT TO SCALE
o/c	ON CENTER
ONC	ONTARIO BUILDING CODE
PA	PASCAL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
SAE	SOCIETY OF AUTOMOTIVE ENGINEERS
STD	STANDARD
TOP	TOP OF FOOTING / FOUNDATION
TOL	TOP OF LEG
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP.	TYPICAL
ULC	UNIFORM BUILDING CODE
ULC	UNDERWRITERS LABORATORIES OF CANADA
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WCLIB	WEST COAST LUMBER INSPECTION BUREAU
WWPA	WESTERN WOOD PRODUCTS ASSOCIATION

ANY MODIFICATIONS OR DAMAGE TO
STRUCTURE OR COMPONENTS MUST
BE REPORTED IMMEDIATELY TO
CALHOUN SUPER STRUCTURES. ALL
REPAIRS MUST BE APPROVED BY
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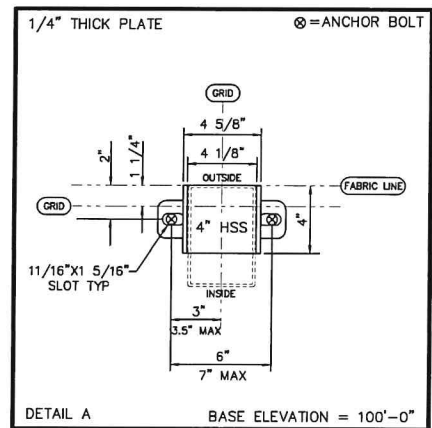
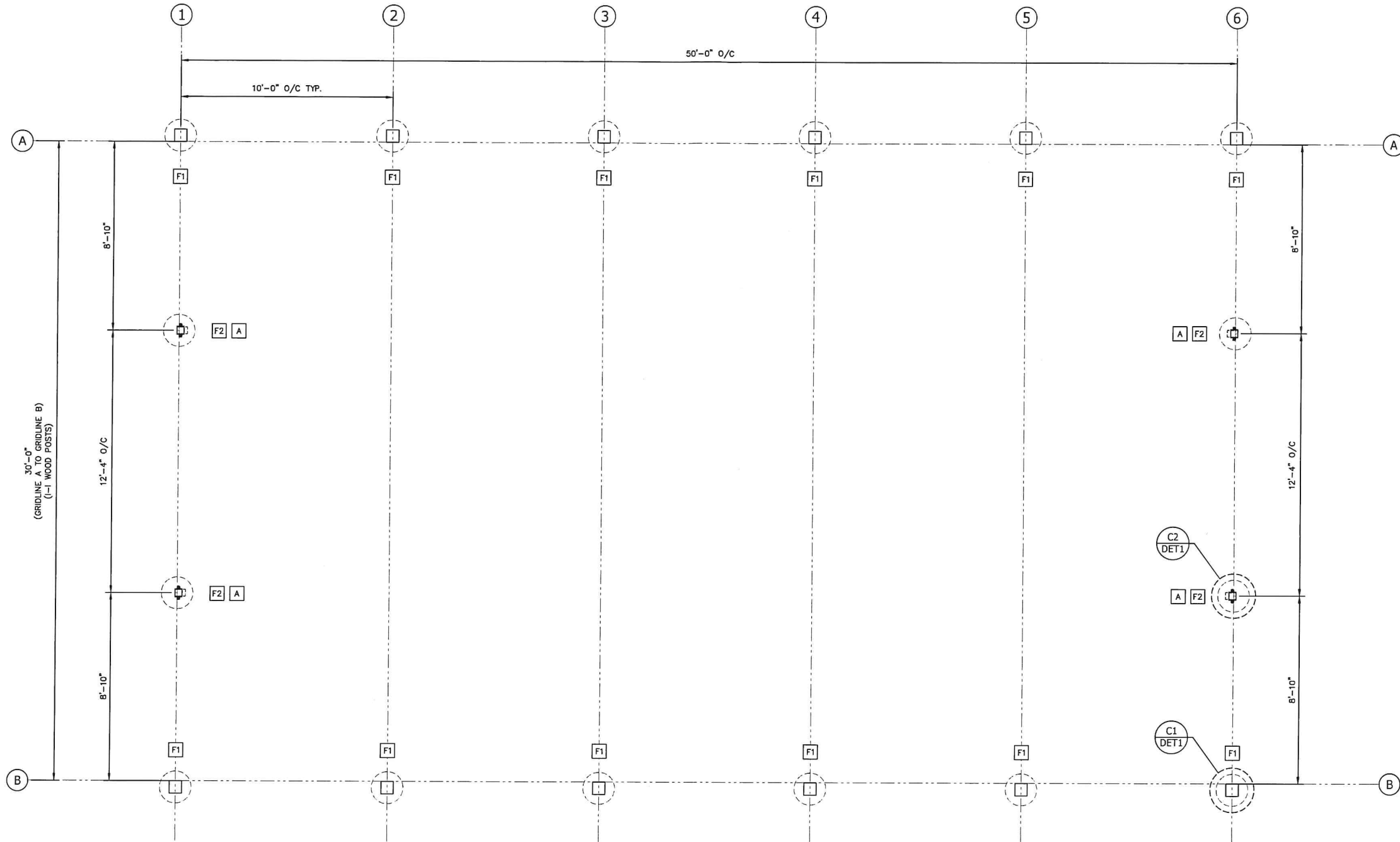
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GSN
32' CC SERIES
406144 CC32x50 R0

SHEET NAME _____
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SCALE: _____ N T S SHEET 2 OF 9





COLUMN AND FOUNDATION SCHEDULE					
KEY NOTE	POST SIZE	PIER DIA.	EMBEDMENT	REINFORCING	MATERIAL
F1	7" X 6 11/16" 5 PLY	18" ϕ	95' B.O.F. TO 98' T.O.F. (5' DEEP HOLE/3' CONCRETE)	#5 (15M) REBAR THROUGH POST c/w 3" CLEAR e/w	LAMINATED WOOD - PRESSURE TREATED RIGIDPLY COMBO 50 LAYUP
F2	---	18" ϕ	95' B.O.F. TO 100' T.O.F. (5' DEEP HOLE / 5' CONCRETE)	#3 (10M) REBAR VERTICAL QUANTITY (4)	---

FOOTING SIZES ABOVE ARE MINIMUMS BASED ON STRUCTURE LOADS. FOOTING DIAMETER AND DEPTH MAY BE INCREASED FOR LOCAL SITE CONDITIONS SUCH AS FROST PENETRATION.



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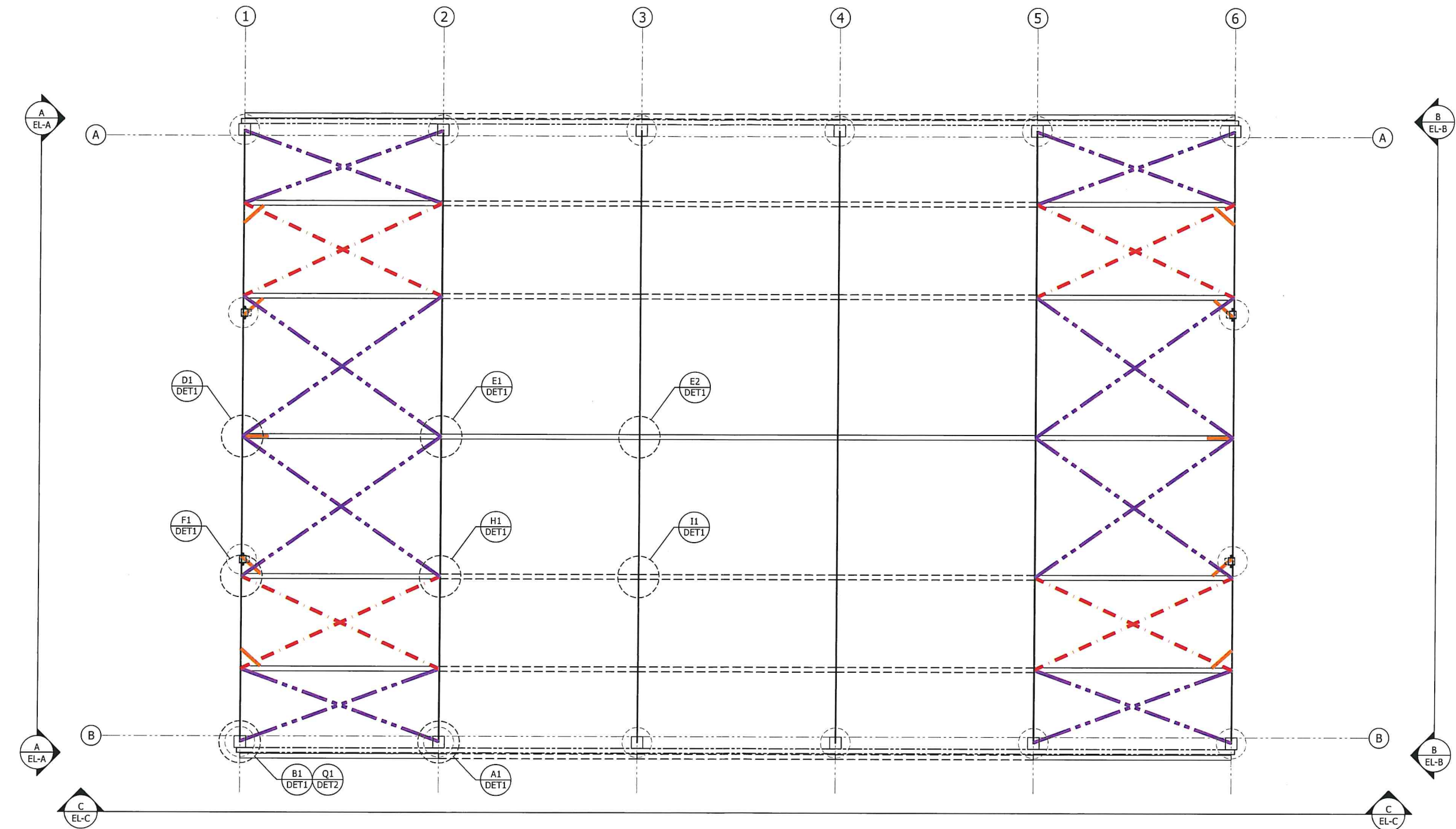
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FOUNDATION PLAN
32' CC SERIES
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SCALE: 3/8"=1'-0" SHEET 3 OF 9

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FRAMING SCHEDULE				
LEGEND	DESCRIPTION	SECTION	GA/LOAD	COMMENTS
	TYPICAL PURLIN	2-3/8"	13	UNBRACED BAYS
	TYPICAL PURLIN	2-7/8"	14	BRACED BAYS / RIDGE
	BRACE PURLIN	U 2"x2"	11	END BAYS ONLY
	TENSION TUBE	2-7/8"	13	ALL BAYS

CABLE SCHEDULE							
LEGEND	DESCRIPTION	SECTION	PART NO.	LENGTH (in)	GA/LOAD	PROOF TURNS	PRE-TENSION TURNS
	ROOF TRUSS	3/16" DIA 7X19	CA316140P	140	600	6-3/8	1-1/2
	EAVE	3/16" DIA 7X19	CB316150P	150	600	5-1/2	1-3/8
CABLE TENSIONING SEQUENCE:							
1. HAND TIGHT							
2. PLUS SPECIFIED TURNS, AS ABOVE, USING A CHEATER BAR OR WRENCH (TO STRETCH CABLE)							
3. LOOSEN TO SLACK							
4. HAND TIGHT							
5. PLUS SPECIFIED TURNS, AS ABOVE, USING A CHEATER BAR OR WRENCH (FINAL TENSIONING 600 LBS UNO)							

MAIN BUILDING COVER INFORMATION	
FABRIC TYPE	COVER INFORMATION
BAG COVER	1 PIECE BAG COVER, TENSION AS PER DETAILS

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AND SUPPLIED BY OTHERS



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FRAMING PLAN
32' CC SERIES
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SHEET NAME: **FRA**
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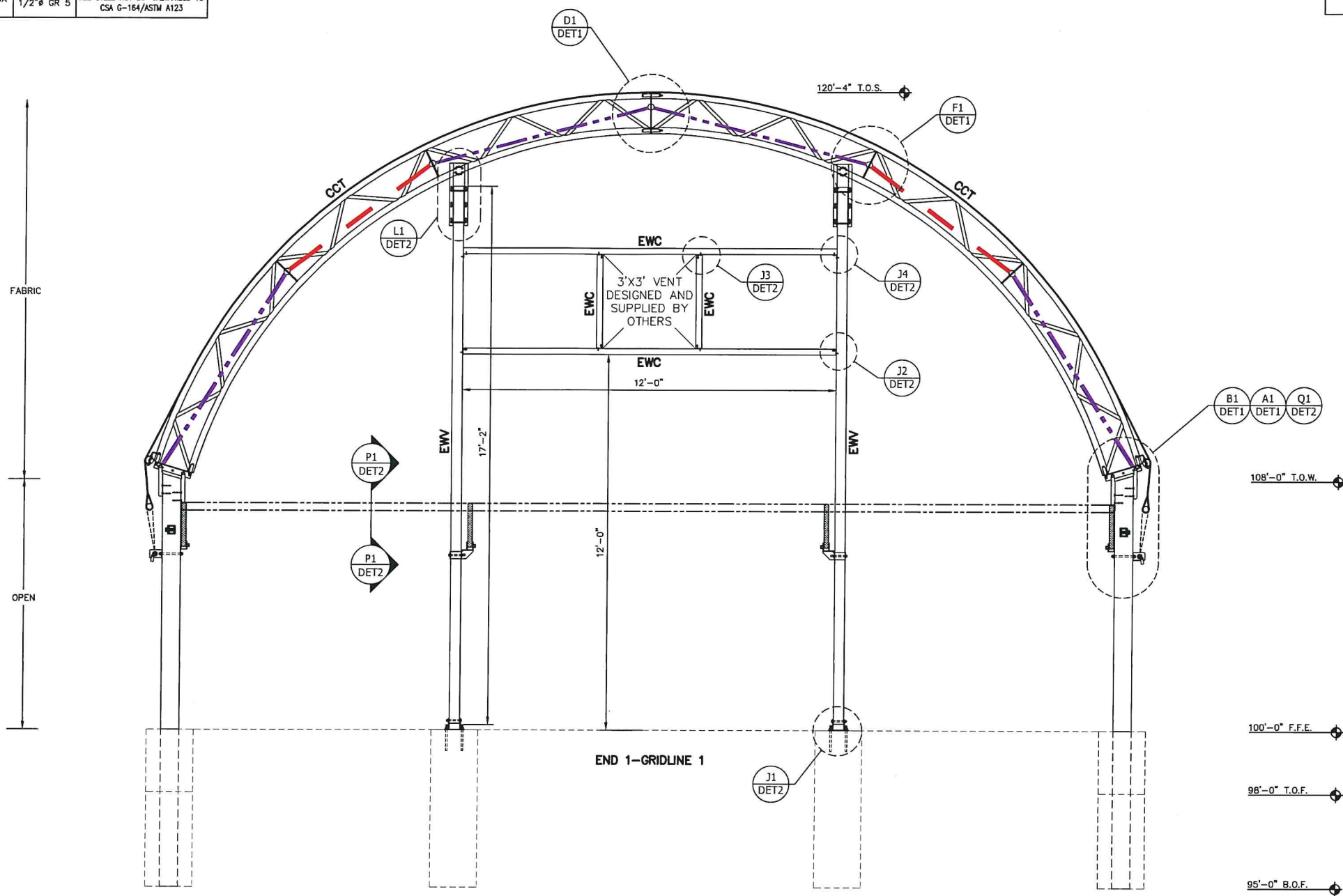
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COMPONENT SCHEDULE

MARK	DESCRIPTION	CHORDS	WEBS	BOLTS	COMMENTS
CCT	CC SERIES TRUSS COMPONENT	2-3/8" X 14 GA 50 KSI	U 1.5"x1.25"x14GA 50 KSI	1/2" GR 5	ALL STEEL HOT DIP GALVANIZED TO CSA G-154/ASTM A123

END WALL FRAMING SCHEDULE

LEGEND	DESCRIPTION	SECTION	GA/LOAD
EWV	ENDWALL UPRIGHT	4"x4" HSS	1/8"



FRAMING SCHEDULE

LEGEND	DESCRIPTION	SECTION	GA/LOAD	COMMENTS
---	TYPICAL PURLIN	2-3/8"	13	UNBRACED BAYS
---	TYPICAL PURLIN	2-7/8"	14	BRACED BAYS / RIDGE
---	BRACE PURLIN	U 2"x2"	11	END BAYS ONLY
---	TENSION TUBE	2-7/8"	13	ALL BAYS

CABLE SCHEDULE

LEGEND	DESCRIPTION	SECTION	PART NO.	LENGTH (in)	GA/LOAD	PROOF TURNS	PRE-TENSION TURNS
---	ROOF TRUSS	3/16" DIA 7X19	CA316140P	140	600	6-3/8	1-1/2
---	EAVE	3/16" DIA 7X19	CB316150P	150	600	5-1/2	1-3/8

CABLE TENSIONING SEQUENCE:

- HAND TIGHT
- PLUS SPECIFIED TURNS, AS ABOVE, USING A CHEATER BAR OR WRENCH (TO STRETCH CABLE)
- LOOSEN TO SLACK
- HAND TIGHT
- PLUS SPECIFIED TURNS, AS ABOVE, USING A CHEATER BAR OR WRENCH (FINAL TENSIONING 600 LBS UNO)

END WALL FABRIC INFORMATION

FABRIC TYPE	FABRIC INFORMATION
1 PIECE END PANEL	CONNECTED TO OUTER CHORD USING PVC PIPES WITH CAMBUCKLES 20" o/c. TENSION AS PER DETAILS.

FOUNDATION DESIGNED BY EOS
AND SUPPLIED BY OTHERS

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ELEVATION A
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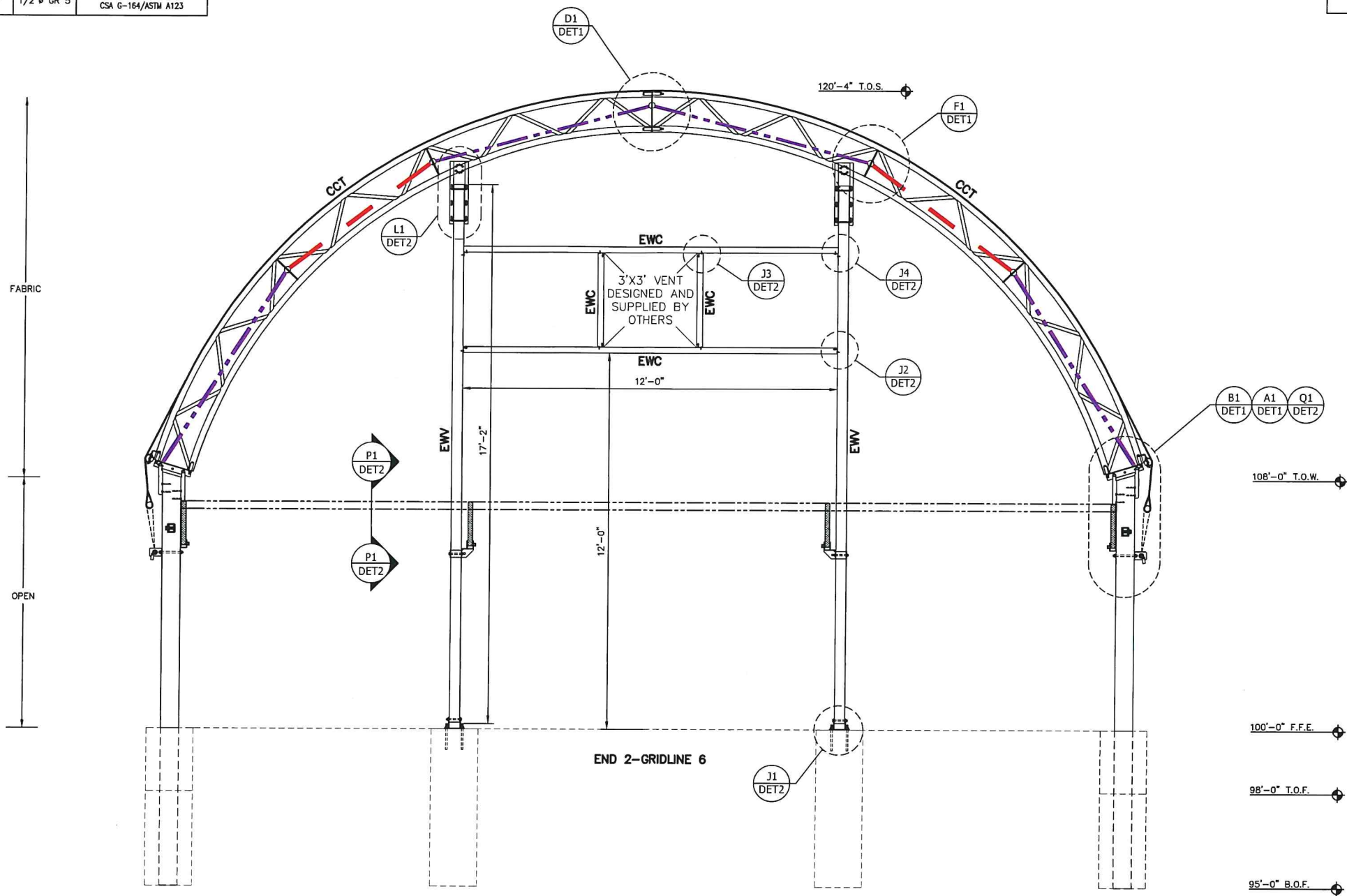
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COMPONENT SCHEDULE

MARK	DESCRIPTION	CHORDS	WEBS	BOLTS	COMMENTS
CCT	CC SERIES TRUSS COMPONENT	2-3/8" X 14 GA 50 KSI	U 1.5"x1.25"x14GA 50 KSI	1/2" GR 5	ALL STEEL HOT DIP GALVANIZED TO CSA G-164/ASTM A123

END WALL FRAMING SCHEDULE

LEGEND	DESCRIPTION	SECTION	GA/LOAD
EWV	ENDWALL UPRIGHT	4"x4" HSS	1/8"



FRAMING SCHEDULE

LEGEND	DESCRIPTION	SECTION	GA/LOAD	COMMENTS
	TYPICAL PURLIN	2-3/8"	13	UNBRACED BAYS
	TYPICAL PURLIN	2-7/8"	14	BRACED BAYS / RIDGE
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CABLE SCHEDULE

LEGEND	DESCRIPTION	SECTION	PART NO.	LENGTH (in)	GA/LOAD	PROOF TURNS	PRE-TENSION TURNS
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- LOOSEN TO SLACK
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END WALL FABRIC INFORMATION

FABRIC TYPE	FABRIC INFORMATION
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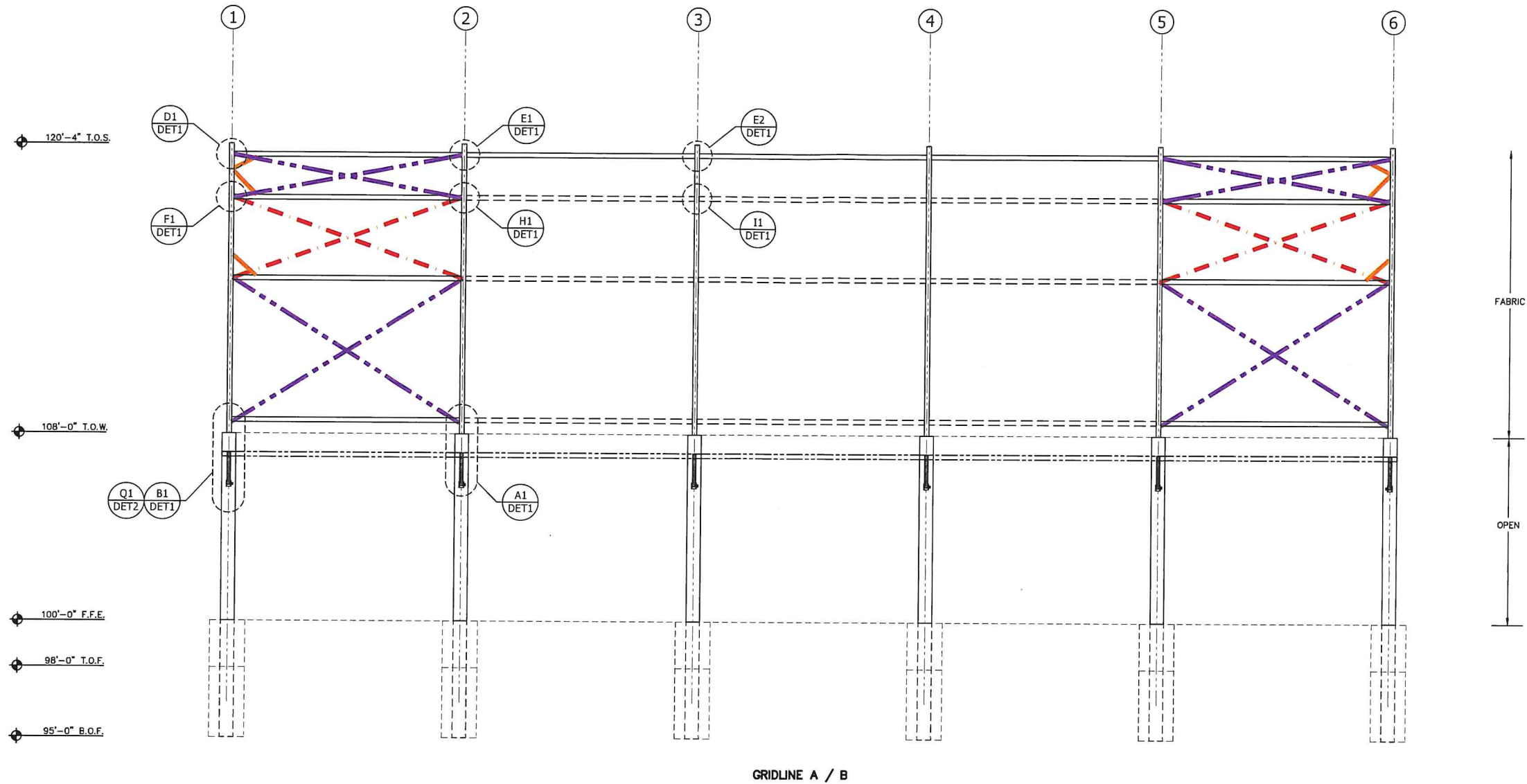
ELEVATION B
32' CC SERIES
406144 CC32x50 R0

EL-B

SCALE: 1/2"=1'-0" SHEET 6 OF 9



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FRAMING SCHEDULE				
LEGEND	DESCRIPTION	SECTION	GA/LOAD	COMMENTS
	TYPICAL PURLIN	2-3/8"	13	UNBRACED BAYS
	TYPICAL PURLIN	2-7/8"	14	BRACED BAYS / RIDGE
	BRACE PURLIN	U 2"x2"	11	END BAYS ONLY
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CABLE SCHEDULE							
LEGEND	DESCRIPTION	SECTION	PART NO.	LENGTH (in)	GA/LOAD	PROOF TURNS	PRE-TENSION TURNS
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CABLE TENSIONING SEQUENCE:

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3. LOOSEN TO SLACK
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MAIN BUILDING COVER INFORMATION	
FABRIC TYPE	COVER INFORMATION
BAG COVER	1 PIECE BAG COVER, TENSION AS PER DETAILS

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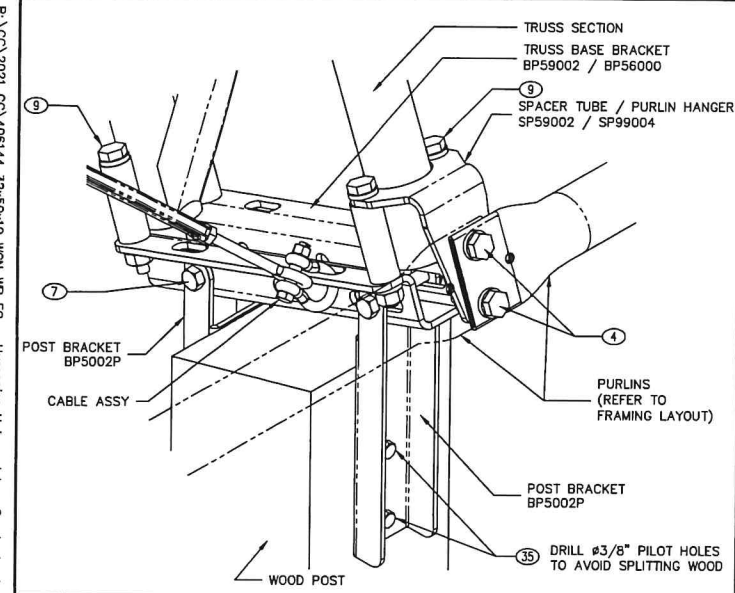
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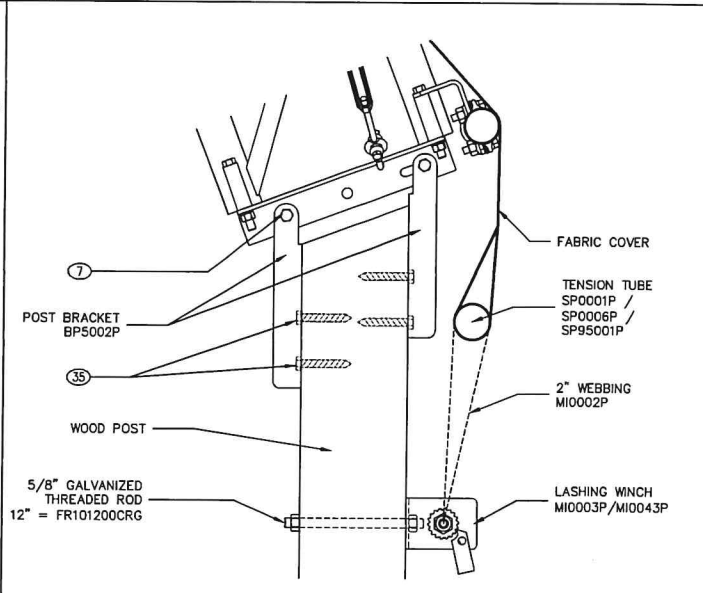
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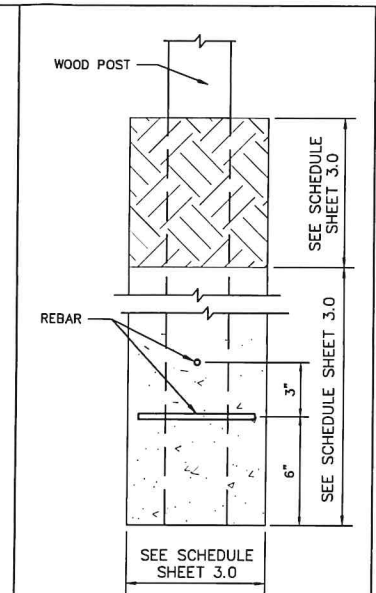
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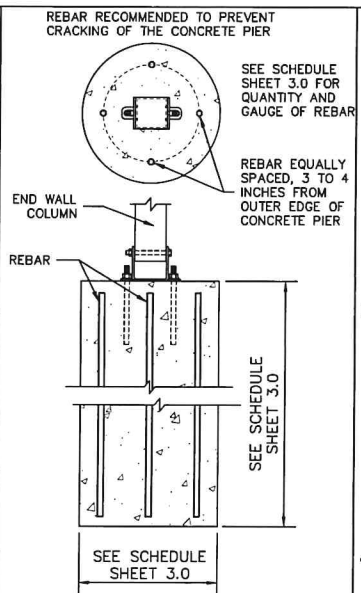
DETAIL A1 POST BRACKET MOUNT



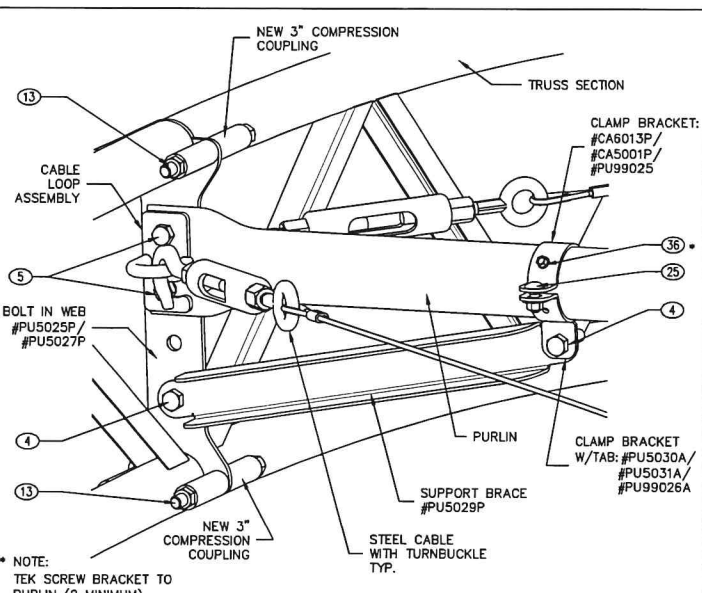
DETAIL B1 BAG COVER STANDARD FABRIC TERMINATION



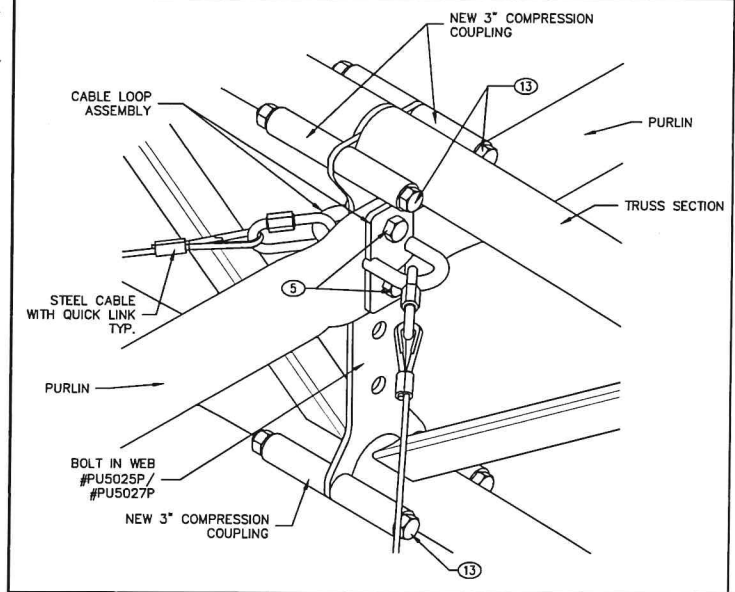
DETAIL C1 - WOOD POST EMBEDMENT



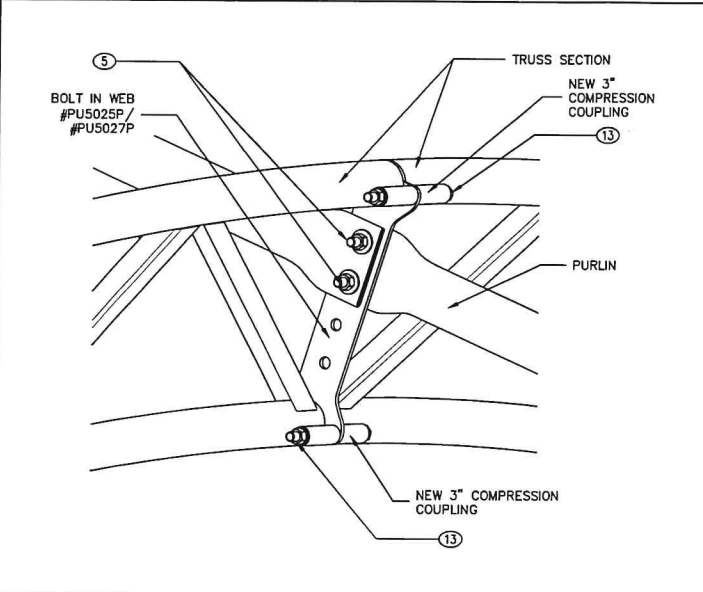
DETAIL C2 - END WALL PIER



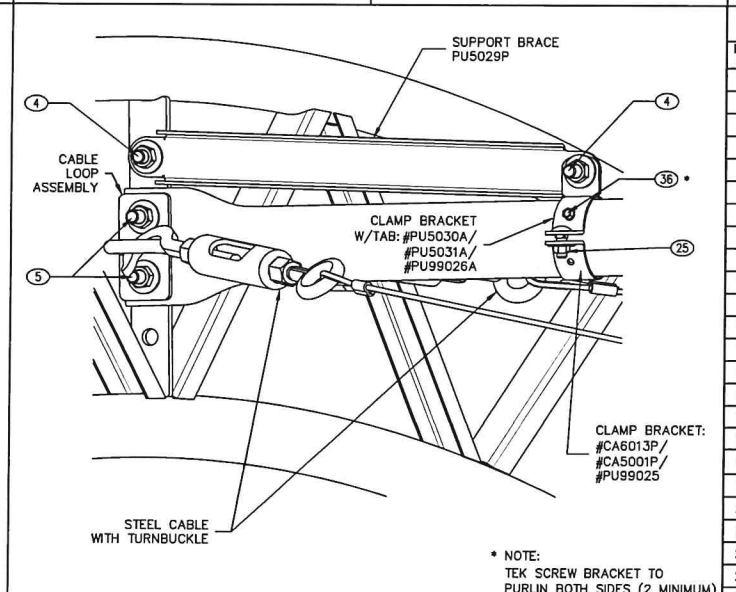
DETAIL D1 RIDGE PURLIN AT END WITH BOLT IN WEB



DETAIL E1 RIDGE PURLIN AT BOLT IN WEB - CABLES TO RIDGE



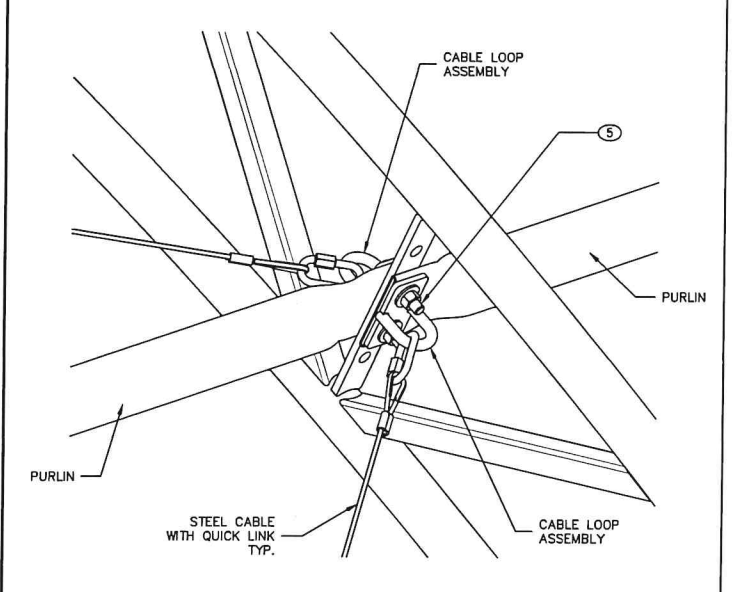
DETAIL E2 RIDGE PURLIN AT BOLT IN WEB



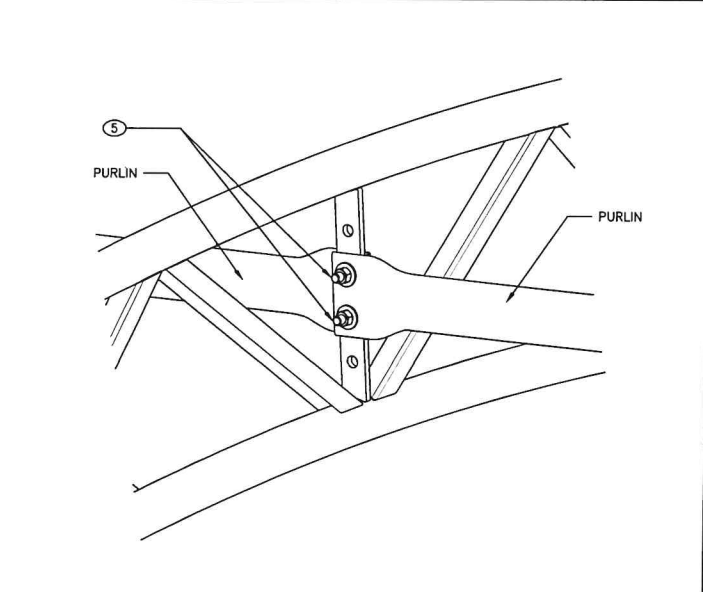
DETAIL F1 PURLIN AT END AT WELD IN WEB - TWO CABLES

HARDWARE SCHEDULE (AS OCCURS)					
ITEM No.	DESCRIPTION	PART No.	ITEM No.	DESCRIPTION	PART No.
1	HEX BOLT 3/8 X 1-1/2	FA0029P	25	CARRIAGE BOLT 3/8 X 1-1/2	FC060150G5G
2	---	---	26	CARRIAGE BOLT 3/8 X 4	FA0103P
3	---	---	27	CARRIAGE BOLT 3/8 X 4-1/2	FA0102P
4	HEX BOLT 1/2 X 1-1/2	FA0011P	28	CARRIAGE BOLT 1/2 X 2	FA0146P
5	HEX BOLT 1/2 X 2-1/2	FA0151P	29	CARRIAGE BOLT 1/2 X 4-1/2	FA0138P
6	HEX BOLT 1/2 X 2-1/2 GR8	FA7021P	30	CARRIAGE BOLT 1/2 X 5	FA0127P
7	HEX BOLT 1/2 X 3-1/2	FA0006P	31	CARRIAGE BOLT 1/2 X 5-1/2	FA7010P
8	HEX BOLT 1/2 X 4	FA0009P	32	CARRIAGE BOLT 5/8 X 1-1/2	FA0142P
9	HEX BOLT 1/2 X 4-1/2	FA0076P	33	CARRIAGE BOLT 5/8 X 6	FA7017P
10	HEX BOLT 1/2 X 5	FA0010P	34	LAG BOLT 3/8 X 1-1/2	FA0030P
11	HEX BOLT 1/2 X 5-1/2	FA0080P	35	LAG BOLT 1/2 X 3-1/2	FA0007P
12	HEX BOLT 1/2 X 6-1/2	FH080650G5G	36	TEK SCREWS 1/4 X 1	FA2201P
13	HEX BOLT 1/2 X 7-1/2	FH080750G5G	37	TEK SCREWS 1/4 X 1-1/4 GASK	FA2204P
14	HEX BOLT 5/8 X 1-1/2	FA0059P	38	TEK SCREWS 1/4 X 1 WHITE	FA2202P
15	HEX BOLT 5/8 X 2	FA0061P	39	TEK SCREWS 12-24 X 1-1/4	FA0147P
16	HEX BOLT 5/8 X 2-1/2	FA0062P	40	TEK SCREWS 1/4 X 2-1/2	FA0089P
17	HEX BOLT 5/8 X 3	FA0063P	41	TEK SCREWS 1/4 X 1-1/2	FA2203P
18	HEX BOLT 5/8 X 4	FA0055P	42	THREADED ROD 5/8 X 5	FR100500G2G
19	HEX BOLT 5/8 X 5	FA0074P	43	CARRIAGE BOLT 5/8 X 2	FC100200G5G
20	HEX BOLT 5/8 X 6	FA7016P	44	HEX BOLT 1/2 X 1	FH080100G5G
21	HEX BOLT 3/4 X 3	FA0077P	45	LAG BOLT 3/4 X 3-1/2	FG120350G2G
22	HEX BOLT 3/4 X 5	FA6005P	48	BLIND BOLT 1/2	FA1053P
23	HEX BOLT 7/8 X 2-1/2	FA0120P	49	BLIND BOLT 5/16" X 2"	FA1054P
24	HEX BOLT 1-1/4 X 4-1/2	FA7015P	50	CONNECTION BY OTHERS	

NOTES: REFERENCE TO BOLTS AND/OR U-BOLTS INCLUDES ASSOCIATED NUT AND WASHER ALWAYS INSTALL WASHER ON TURN SIDE OF BOLT - UNO



DETAIL H1 BRACED BAY TO UNBRACED BAY AT WELD IN WEB - TWO CABLES



DETAIL I1 UNBRACED BAY TO UNBRACED BAY AT WELD IN WEB

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DETAILS
32' CC SERIES
406144 CC32x50 R0

NAME: B. A. DEVITT
DATE: 02/03/2021
DRAWN: R. D. B.
CHECKED: A. C. B.

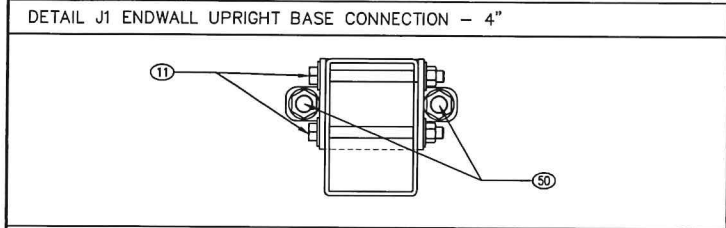
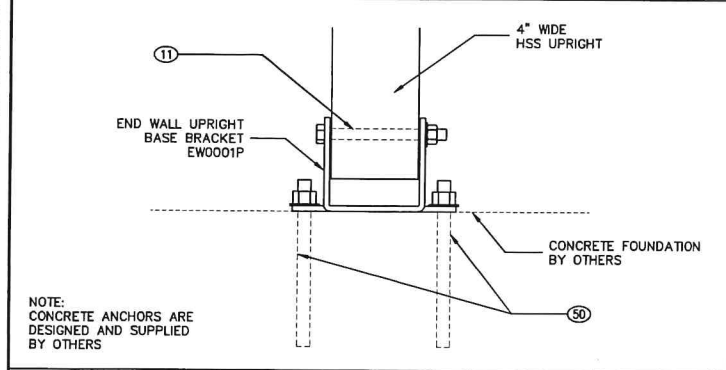
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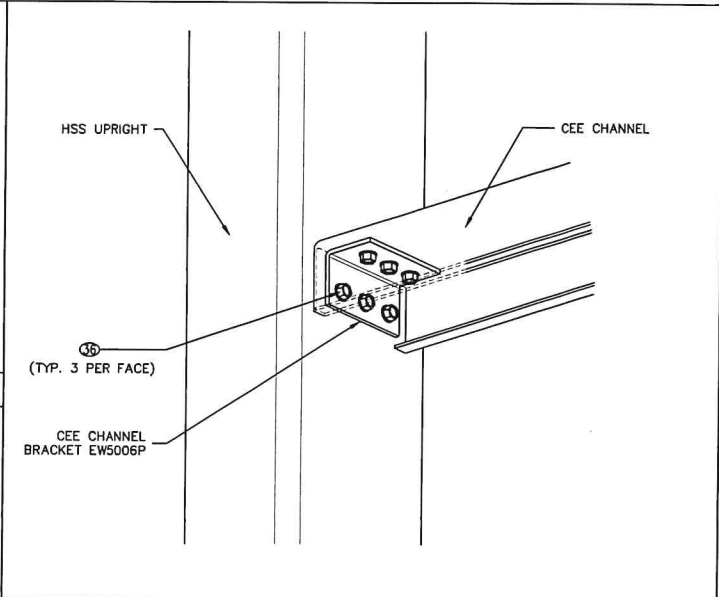
SHEET: 8 OF 9



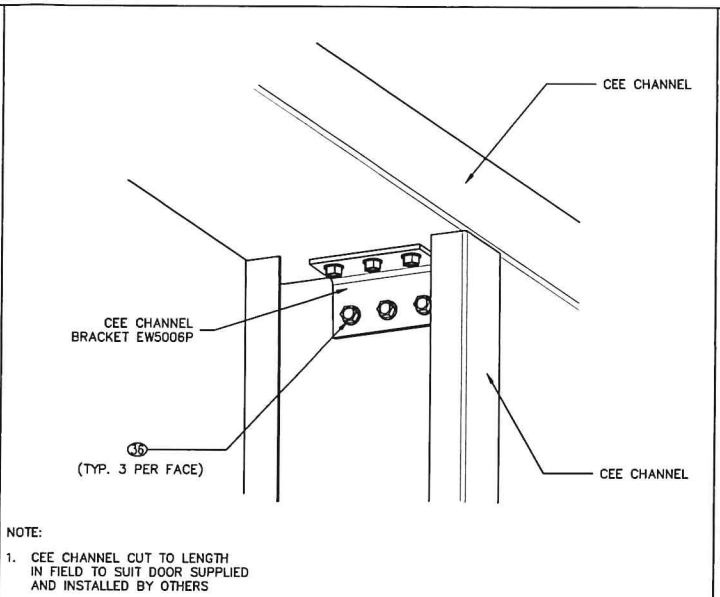
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3/2/2021 11:29 AM



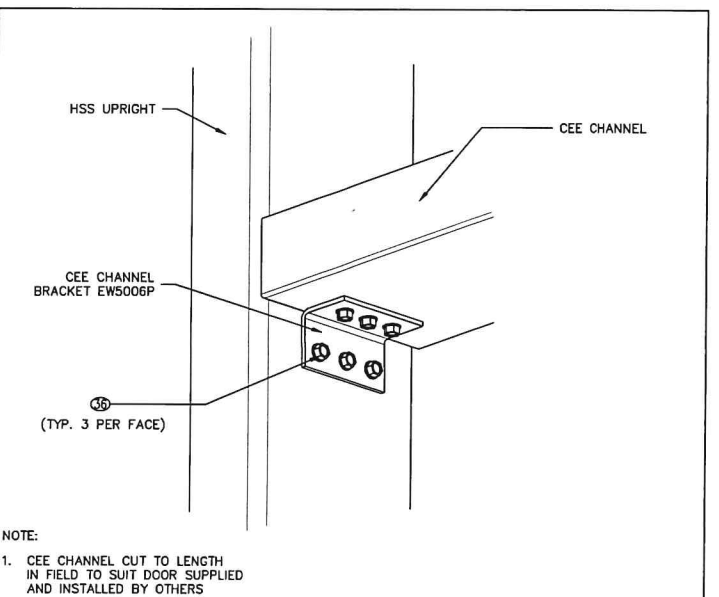
DETAIL J1 ENDWALL UPRIGHT BASE CONNECTION - 4"



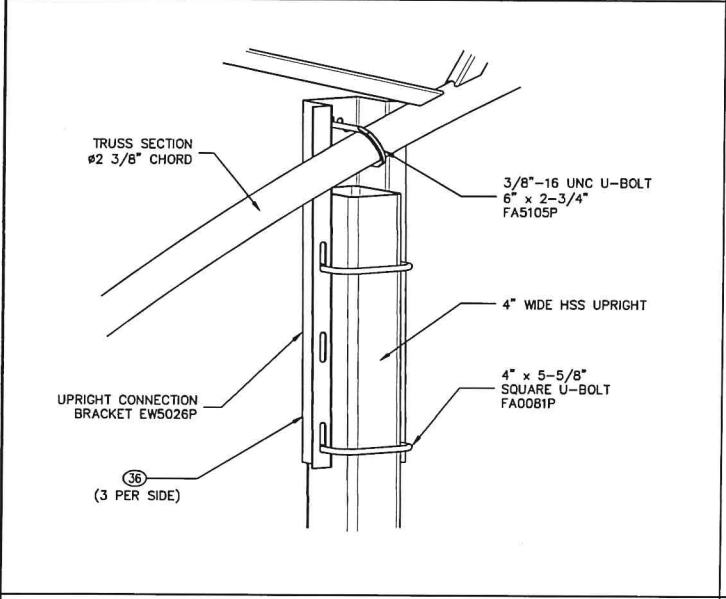
DETAIL J2 ENDWALL UPRIGHT TO CEE CHANNEL CONNECTION



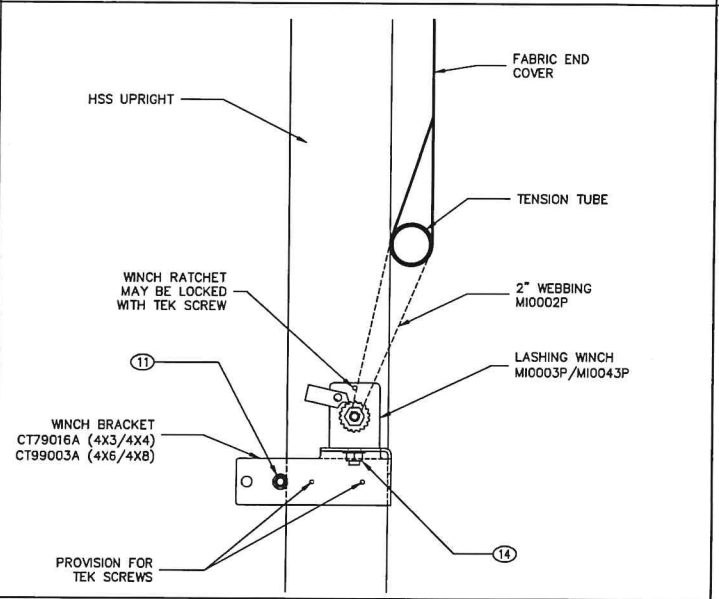
DETAIL J3 VENT JAMB TO VENT HEADER CONNECTION



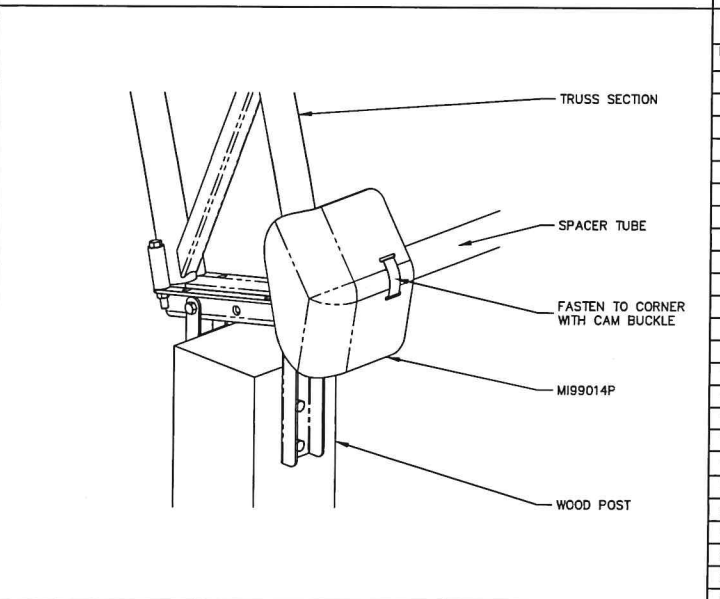
DETAIL J4 VENT HEADER TO UPRIGHT CONNECTION



DETAIL L1 ENDWALL HSS UPRIGHT CONNECTION AT TRUSS - 4X4 HSS



DETAIL P1 - END WALL FABRIC ON HSS UPRIGHTS



DETAIL Q1 - COVER GUARD - WOOD POSTS (END FRAMES ONLY)

HARDWARE SCHEDULE (AS OCCURS)					
ITEM No.	DESCRIPTION	PART No.	ITEM No.	DESCRIPTION	PART No.
1	HEX BOLT 3/8 X 1-1/2	FA0029P	25	CARRIAGE BOLT 3/8 X 1-1/2	FC060150G5G
2	---	---	26	CARRIAGE BOLT 3/8 X 4	FA0103P
3	---	---	27	CARRIAGE BOLT 3/8 X 4-1/2	FA0102P
4	HEX BOLT 1/2 X 1-1/2	FA0011P	28	CARRIAGE BOLT 1/2 X 2	FA0146P
5	HEX BOLT 1/2 X 2-1/2	FA0151P	29	CARRIAGE BOLT 1/2 X 4-1/2	FA0138P
6	HEX BOLT 1/2 X 2-1/2 GR8	FA7021P	30	CARRIAGE BOLT 1/2 X 5	FA0127P
7	HEX BOLT 1/2 X 3-1/2	FA0006P	31	CARRIAGE BOLT 1/2 X 5-1/2	FA7010P
8	HEX BOLT 1/2 X 4	FA0009P	32	CARRIAGE BOLT 5/8 X 1-1/2	FA0142P
9	HEX BOLT 1/2 X 4-1/2	FA0076P	33	CARRIAGE BOLT 5/8 X 6	FA7017P
10	HEX BOLT 1/2 X 5	FA0010P	34	LAG BOLT 3/8 X 1-1/2	FA0030P
11	HEX BOLT 1/2 X 5-1/2	FA0080P	35	LAG BOLT 1/2 X 3-1/2	FA0007P
12	HEX BOLT 1/2 X 6-1/2	FH080650G5G	36	TEK SCREWS 1/4 X 1	FA2201P
13	HEX BOLT 1/2 X 7-1/2	FH080750G5G	37	TEK SCREWS 1/4 X 1-1/4 GASK	FA2204P
14	HEX BOLT 5/8 X 1-1/2	FA0059P	38	TEK SCREWS 1/4 X 1 WHITE	FA2202P
15	HEX BOLT 5/8 X 2	FA0061P	39	TEK SCREWS 12-24 X 1-1/4	FA0147P
16	HEX BOLT 5/8 X 2-1/2	FA0062P	40	TEK SCREWS 1/4 X 2-1/2	FA0089P
17	HEX BOLT 5/8 X 3	FA0063P	41	TEK SCREWS 1/4 X 1-1/2	FA2203P
18	HEX BOLT 5/8 X 4	FA0055P	42	THREADED ROD 5/8 X 5	FR100500G2G
19	HEX BOLT 5/8 X 5	FA0074P	43	CARRIAGE BOLT 5/8 X 2	FC100200G5G
20	HEX BOLT 5/8 X 6	FA7016P	44	HEX BOLT 1/2 X 1	FH080100G5G
21	HEX BOLT 3/4 X 3	FA0077P	45	LAG BOLT 3/4 X 3-1/2	FG120350G2G
22	HEX BOLT 3/4 X 5	FA6005P	48	BLIND BOLT 1/2	FA1053P
23	HEX BOLT 7/8 X 2-1/2	FA0120P	49	BLIND BOLT 5/16" X 2"	FA1054P
24	HEX BOLT 1-1/4 X 4-1/2	FA7015P	50	CONNECTION BY OTHERS	

NOTES: REFERENCE TO BOLTS AND/OR U-BOLTS INCLUDES ASSOCIATED NUT AND WASHER ALWAYS INSTALL WASHER ON TURN SIDE OF BOLT - UNO

FOUNDATION DESIGNED BY EOS AND SUPPLIED BY OTHERS

Calhoun Super Structures Ltd.
3702 Bruce Rd #10
Tara, Ontario, Canada
N0H 2N0
1-800-265-3984
www.calhoun.ca
www.calhounsuperstructure.com

CALHOUN

NAME DATE
R D B 02/03/2021
CHECKED A G B 02/03/2021

THE INFORMATION CONTAINED IN THIS DRAWING IS PROPRIETARY AND CONFIDENTIAL AND IS THE SOLE PROPERTY OF CALHOUN SUPER STRUCTURES LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CALHOUN SUPER STRUCTURES LTD. IS PROHIBITED.

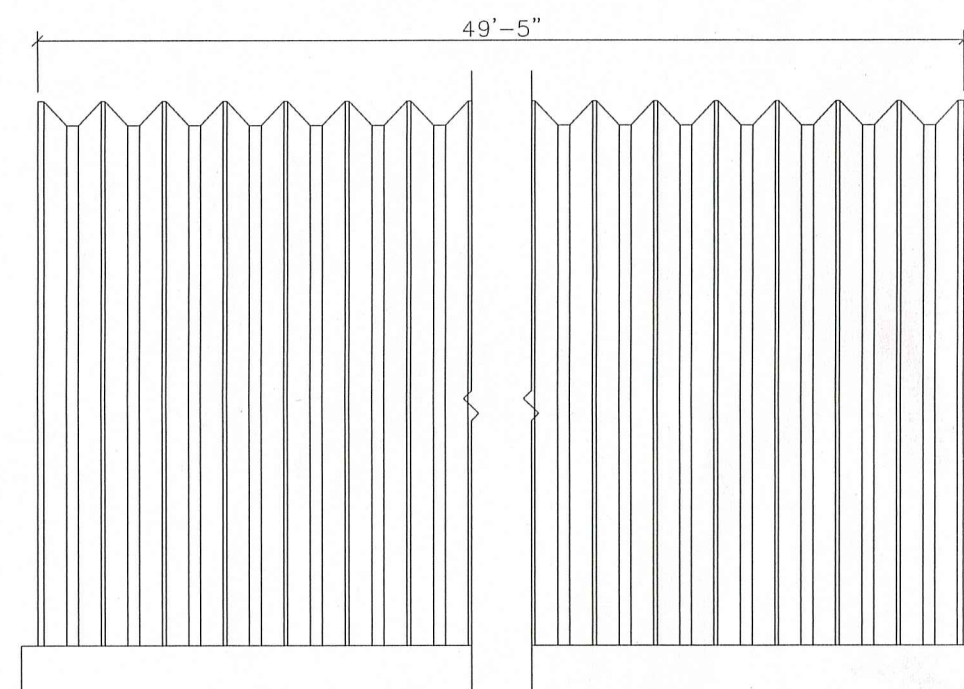
DETAILS
32' CC SERIES
406144 CC32x50 R0

SCALE: N T S SHEET 9 OF 9

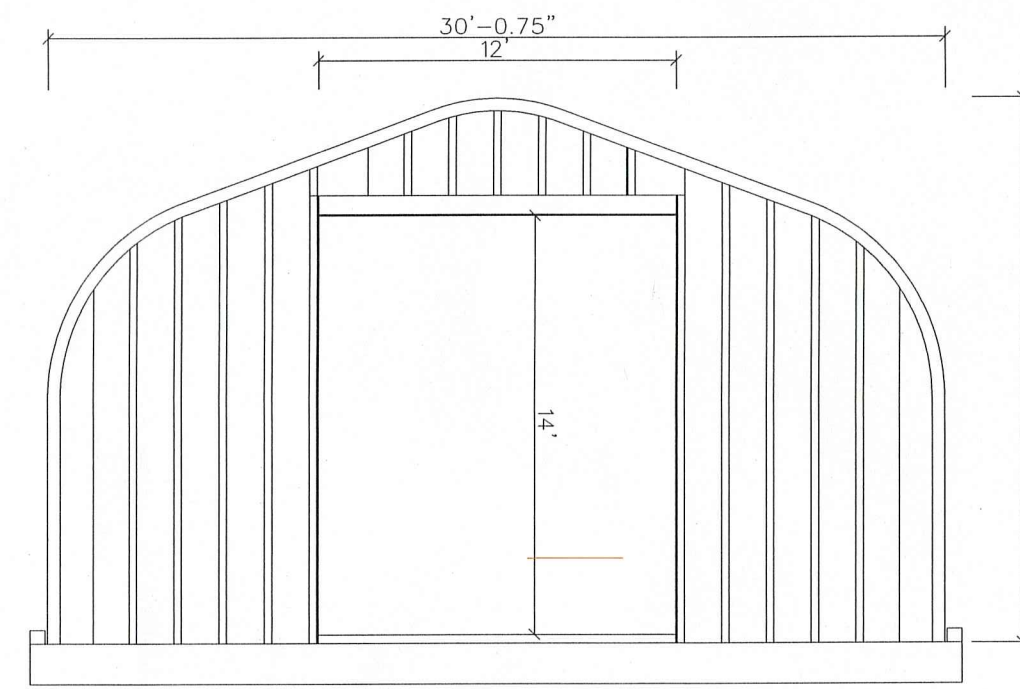




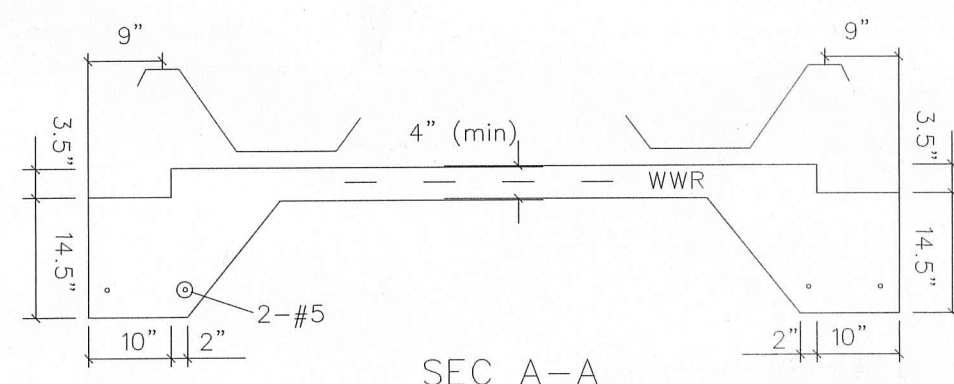
REAR ELEVATION



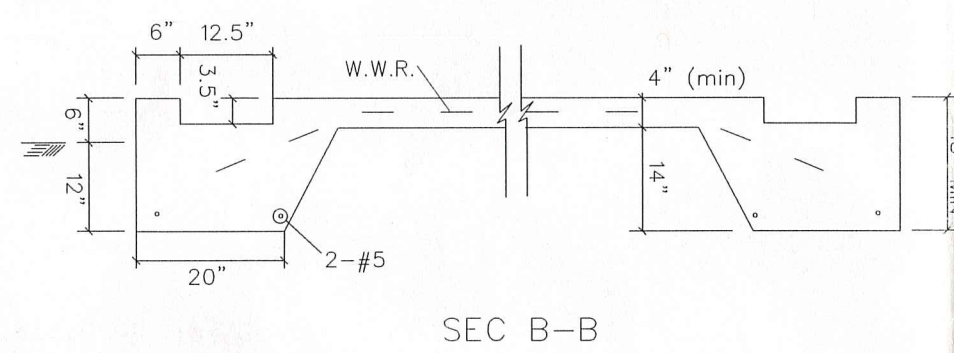
SIDE ELEVATION



FRONT ELEVATION
OVERHEAD DOOR TO BE DESIGNED
AND SUPPLIED BY OTHERS



SEC A-A

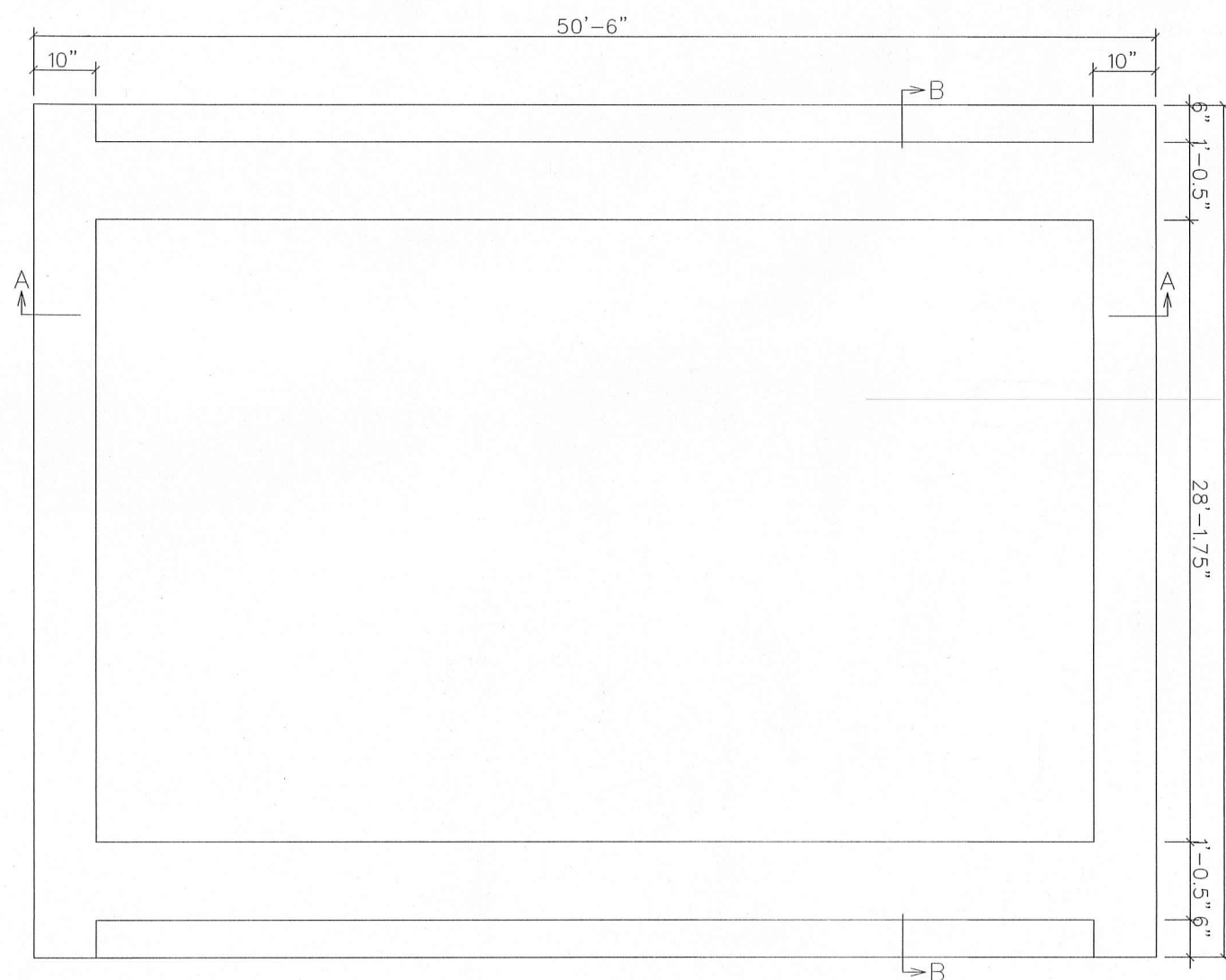


SEC B-B

WARNING: DO NOT REMOVE OR REDUCE THE CONCRETE FLOOR OR THE REINFORCING STEEL, AND/OR RAISE THE TOPS OF THE FOOTERS ABOVE THE FLOOR OR BUILDING FAILURE MAY RESULT

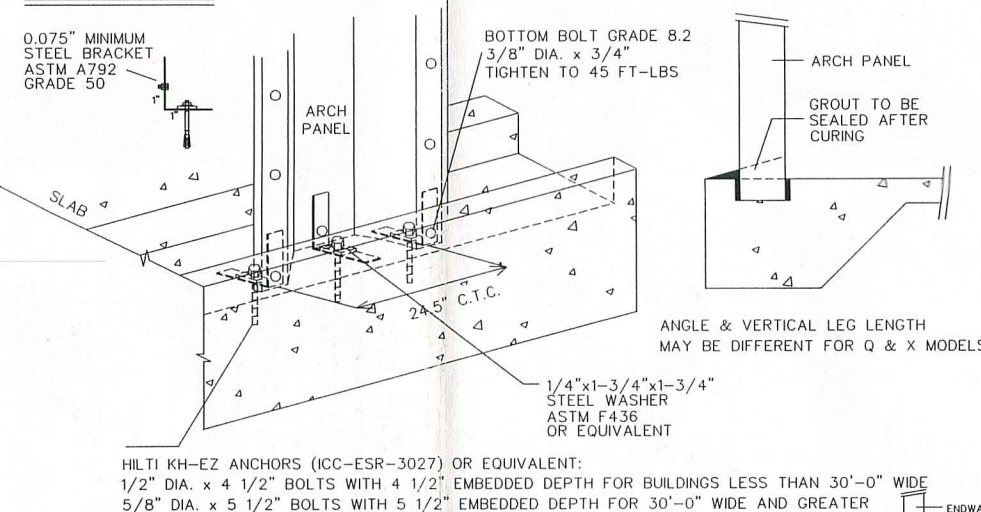
Minimum Concrete Cover:

- (a) Concrete Cast against earth: 3"
- (b) Concrete exposed to earth or weather: 2"
- No. 6 through No. 10 bars: 1.5"
- No. 5 bar and smaller: 0.75"
- (c) Concrete not exposed to earth or weather: 0.75"



FOUNDATION PLAN

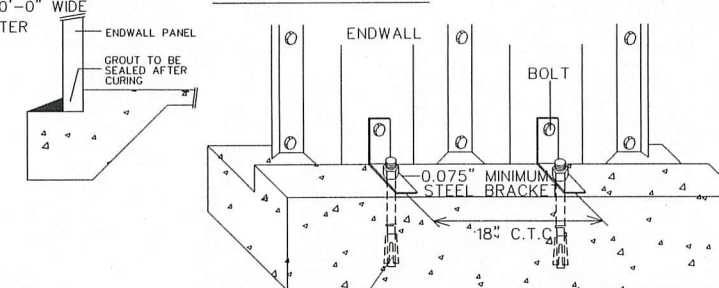
ARCH ANCHORAGE



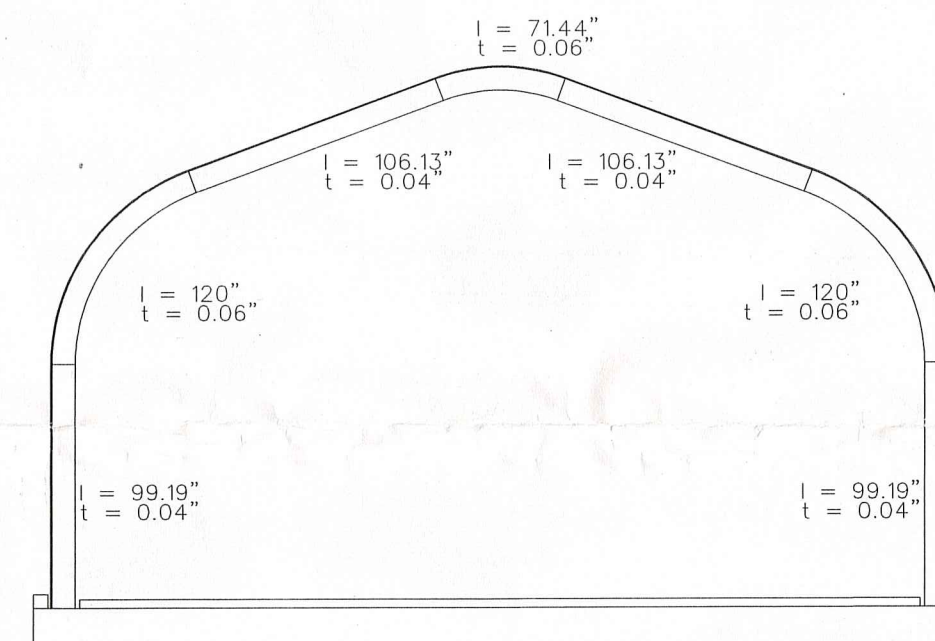
HLTI KH-EZ ANCHORS (ICC-ESR-3027) OR EQUIVALENT:
• 1/2" DIA. x 4 1/2" BOLTS WITH 4 1/2" EMBEDDED DEPTH FOR BUILDINGS LESS THAN 30'-0" WIDE
• 5/8" DIA. x 5 1/2" BOLTS WITH 5 1/2" EMBEDDED DEPTH FOR 30'-0" WIDE AND GREATER

FIRST ANCHOR BOLT LOCATION FROM END OF FOUNDATION:
• 2.5" WITH NO ENDWALL OR WITH MANUFACTURER'S CLADDED ENDWALL
• 33.5" WITH CORRUGATED MANUFACTURER'S ENDWALL
ARCHES AND MANUFACTURER'S ENDWALLS MUST BE GROUTED INTO FOUNDATION ON BOTH SIDES OF PANELS.

ENDWALL ANCHORAGE



FIRST ANCHOR BOLT LOCATION:
• SOLID ENDWALL = 9" FROM BUILDING CENTERLINE+18" C.T.C.
• OPEN ENDWALL = 11" FROM OPENING+18" C.T.C.



ARCH PROFILE

GENERAL NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST REVISION OF THE NBC 2015 & OBC 2012. DESIGN ACCORDING TO CSA STANDARD CAN/CSA S136-16w/S1-19 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS (APPENDIX B).
2. NO LOADS OTHER THAN THOSE GIVEN UNDER "DESIGN DATA" BELOW SHALL BE IMPOSED ON THE "STRUCTURE"
3. SPECIFIC NOTES AND DETAILS SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE BUILDING MANUAL SUPPLIED.
4. THE BUILDING, INCLUDING THE FOUNDATION, MUST BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE DRAWING AND ERECTION INSTRUCTIONS. ANY DEVIATION, UNLESS APPROVED BY US IN WRITING, SHALL NULLIFY OUR CERTIFICATE AND SEAL AND SHALL BE THE SOLE RESPONSIBILITY OF THE ERECTOR.
5. A PROFESSIONAL ENGINEER SHOULD BE RETAINED WHERE SITE INSPECTIONS ARE WARRANTED.
6. NO ARCH PANEL MAY BE CUT OR MODIFIED UNLESS IT IS TO ACCOMMODATE AN ACCESSORY PROVIDED BY THE MANUFACTURER IN ACCORDANCE WITH ITS INSTRUCTIONS AND/OR THIS DRAWING.
7. MINIMUM SEPARATION FROM THIS BUILDING TO ANY TALLER BUILDING MUST BE THE SMALLER OF 20 FEET AND 6 TIMES THE HEIGHT DIFFERENCE.

FOUNDATION NOTES

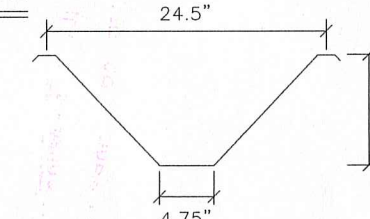
NOTE: THE FOUNDATION ON THE DRAWING SPECIFIES THE MINIMUM REQUIREMENTS. LOCAL BUILDING CODE AND SITE CONDITIONS MAY REQUIRE A STRONGER FOUNDATION, WHICH MUST BE DESIGNED BY A LOCAL ENGINEER.

1. THE FOUNDATION SHALL BE FOUNDED ON NATURAL UNDISTURBED SOIL CAPABLE OF SAFELY SUSTAINING 75 kPa. THIS SHALL BE DESIGNED TO FULLY RESIST ALL ROTATION AT THE BASE OF THE ARCH.
2. SLAB ON GRADE SHALL BE PLACED ON WELL COMPACTED SOIL CAPABLE OF SUSTAINING 75 kPa WITHOUT APPRECIABLE SETTLEMENT.

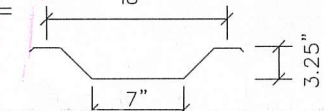
DESIGN DATA (MATERIALS)

1. CONCRETE $F'_c = 25 \text{ MPa}$ @ 28 DAYS, CSA A23.3
2. REINFORCING STEEL GRADE 400, $F_y = 400 \text{ MPa}$, ASTM A615
3. W.W.R. $F_y = 450 \text{ MPa}$, ASTM A1064.
4. W.W.R. 152x152 - MW9xMW9.

ARCH DATA



ENDWALL DATA



BOLTS: SAE GRADE 2 OR ASTM A307
ARCH STEEL THICKNESS - SEE ARCH PROFILE
ENDWALL STEEL THICKNESS = 0.76 mm

GALVALUME SHEET STEEL
STRUCTURAL QUALITY ASTM SPECIFICATION A792M
55% ALUMINUM-ZINC ALLOY-COATED BY THE HOT-DIP PROCESS
345 MPa MINIMUM YIELD
450 MPa MINIMUM TENSILE
HSS SECTIONS SHALL CONFORM TO:
ASTM A500 GRADE C ($F_y = 345 \text{ MPa}$)
W SECTIONS SHALL CONFORM TO:
ASTM A992 GRADE 50 ($F_y = 345 \text{ MPa}$)
OTHER SECTIONS SHALL CONFORM TO:
ASTM A36 ($F_y = 250 \text{ MPa}$)

ARCH DESIGN DATA IN ACCORDANCE WITH NBC 2015:

L: ROOF LIVE LOAD (kPa) = 1
Ss: GROUND SNOW (kPa) = 2.40
Cb: ROOF SNOW FACTOR = 0.80
Cw: WIND EXPOSURE FACTOR = 1.0
Cs: MAX. SLOPE FACTOR = 1.0
Sr: RAIN LOAD (kPa) = 0.40
IMPORTANCE FACTOR (SNOW) = 0.8
p: WIND EXTERNAL PRESSURE (kPa) = 0.29
q: VELOCITY PRESSURE (1/50) (kPa) = 0.40
Ce: EXPOSURE FACTOR = 0.9
Cg: GUST EFFECT FACTOR = 2.0
Sa(0.2): SPECTRAL RESPONSE ACCELERATION = 0.64

LEGAL NOTE

This drawing is the property of Future Steel Buildings Intl. Corp. Any duplication of this drawing in whole or in part is strictly forbidden. Anyone doing so will be prosecuted under the full extent of the law.

REVISIONS:

Future Steel Buildings Intl. Corp.			
220 Chrysler Drive, Brampton, Ontario, Canada, L6S 6B6, Phone: (905) 790-8500			
N.T.S.	APPROVED BY:	P.G.	
5/5/2020	CHECKED BY:	STGC	
PROJECT: RANJIT PERERA CUMBERLAND, ON			
XA30-18		20-0929	
MODEL:		DWG:	



exp Services Inc.

Humanics Universal Inc.
Humanics Sanctuary-Phase 1B
Site Servicing Report
OTT-00229886-A0
November 25, 2022
Revised September 15, 2026

Appendix C – Septic Permit





Ottawa Septic Bureau des systèmes
System Office septiques d'Ottawa

Permit Part 8 – Sewage System Ontario Building Code

Do Not Complete
Permit No 20-443
Revision No _____
Date _____
Related Application
RV8-4021

A copy of this permit must be posted on the property at all time during construction. OBC, Division C — Part 1, Section 1.3.2.1

This permit verifies that the on-site sewage system was reviewed and approved for construction under the *Ontario Building Code* and *O.Reg. 323/12* as amended by *O.Reg. 151/13*.

Inspected & Recommended by: ALEX DEKLEINE Owner: HUMANICS UNIVERSAL
Inspection Date & Time: SEPT 29, 2022 Weather: SUNNY
Civic Address: 3468 OLD MONTREAL RD Legal: _____
Osgoode: ☐ CUMBERLAND: ☒ Gloucester: ☐
number of bedrooms: PUBLIC PARK = 50 PEOPLE fixture units: _____
finished floor area: PAVILION = 100 PEOPLE Q: 4600 L/day

septic tank	<u>3600 + 11,500</u> L	weigh bills for Filter Media	☒ yes ☐ no
effluent filter	<u>REQUIRED</u>	grain size analysis required	☒ yes ☐ no
pump rate	<u>L/15 MIN</u>	site to be scarified	☒ yes ☐ no
treatment unit	_____	clay seal inspection	☐ yes ☒ no
number of units	_____	mantle required	☐ yes ☒ no
		sub-grade inspection	☒ yes ☐ no

ELEVATION ☐ In Ground ☒ Partially Raised ☐ Fully Raised

TYPE OF SYSTEM

☐ Trench

☒ Pipe and Stone or ☐ Chambers

type of chamber _____
loading area _____ m²
total trench length _____ m
trench configuration _____

☐ Dispersal Bed

☐ BMEC ☐ Type A ☐ Type B

stone _____ m²
sand _____ m²
pipe _____
weight of sand _____ kg

☐ Shallow Buried Trench

pipe length _____ m
orifice spacing _____ m

☒ Filter Media Bed 2 CELLS

stone 96 m²
extended base 96 m²
pipe EACH CELL 6 RUNS OF 7M @ 1M O.C
weight of filter media 142,900 kg
loading area 460 m²

☐ Class 5 Holding Tank

☐ Septic Tank Only

Manager, Septic System Approvals: Terry L. Davidson

Permit Date: SEPTEMBER 29, 2022

Comments: 1. OSSO TO INSPECT SUBGRADE

REFER TO SECTION 28 - RV8-4021

☐ maintenance/pumping required

☒ ESA permit # required

☐ engineer to verify

☐ Class 5 Holding Tank approval only valid for three years from date of issue

☐ subgrade
☐ squirt height

Manager, Septic System Approvals: _____

Revision Date: _____

Comments: _____

NOTE: For further details, refer to corresponding application.



Green Valley Environmental Inc.

LETTER OF AUTHORIZATION

Owner: HUMANICS UNIVERSAL INC - HUMANIC INSTITUTE
Address: 3468 Old Montreal Road
Cumberland Ottawa K4C 1H9
697
Phone No.: 613 824 1525 Cell No.: 613 697 1525
Work No.: _____ Fax No.: _____

LOCATION OF PROPERTY:

Lot No.: 7
Concession No.: 1
Sub lot/Part No.: _____
R. Plan No.: _____
Civic Address: 3468 Old Montreal Rd.
Municipality: OTTAWA (Cumberland)
Roll No.: _____

Commercial: (provide description of
building and intended use)
HUMANIC SANCTUARY
OUTDOOR TALK

I, the above – mentioned authorize Green Valley Environmental Services to act as my agent to apply for and obtain a sewage system permit from the responsible Approval Agency.

Signature: Hajit Verma

Date: 19 AUGUST 2026

Application for a Permit to Construct or Demolish

This form is authorized under subsection 8(1.1) of the Building Code Act, 1992

Part 10/11 - Change or Use/ Renovation

For use by Principal Authority

Application number:

Permit number (if different):

Date received:

Roll number:

Application submitted to:

Rideau Valley Conservation Authority
(Name of municipality, upper-tier municipality, board of health or conservation authority)

A. Project information

Building number, street name

3468 Old Montreal Rd.

Unit number

Lot/con.

7/1

Municipality

Cumberland

Postal code

K4C 1H9

Plan number/other description

Project value est. \$

Area of work (m²)

B. Purpose of application



New construction



Addition to an existing building



Alteration/repair



Demolition



Conditional Permit

Proposed use of building

Assembly

Current use of building

Assembly

Description of proposed work

Construct food service building for assembly building.

C. Applicant

Applicant ☐

Owner or ☐

☒ Authorized agent of owner

Last name

Pruner

First name

Jacob

Corporation or partnership

Green Valley Environmental Inc

Street address

6107 First Line Rd.

Unit number

Lot/con.

Municipality

Rideau

Postal code

K4M 1A7

Province

ON

E-mail

engineering@gvegroup.ca

Telephone number

613-612-2616

Fax

Cell number

D. Owner (if different from applicant)

Last name

Perera

First name

Ranjit

Corporation or partnership

Humanics Universal Inc.

Street address

3468 Old Montreal Rd.

Unit number

Lot/con.

7/1

Municipality

Cumberland

Postal code

K4C 1H9

Province

ON

E-mail

Telephone number

613-824-1525

Fax

Cell number

613-697-1525

E. Builder (if known)

Last name		First name	Corporation or partnership (if applicable)	
Street address			Unit number	Lot/con.
Municipality	Postal code	Province	E-mail	
Telephone number	Fax		Cell number	

F. New home construction licensing requirement

i. Is the proposed construction for a new home as defined in the <i>New Home Construction Licensing Act, 2017</i> ? If no, go to section G.	☐ Yes	☒ No
ii. Is a licence required under the <i>New Home Construction Licensing Act, 2017</i> ?	☐ Yes	☒ No
iii. If yes to (ii) provide licence number(s): _____		

G. Required Schedules

- i) Attach Schedule 1 for each individual who reviews and takes responsibility for design activities.
- ii) Attach Schedule 2 where application is to construct on-site, install or repair a sewage system.

H. Completeness and compliance with applicable law

i) This application meets all the requirements of clauses 1.3.1.3 (5) (a) to (d) of Division C of the Building Code (the application is made in the correct form and by the owner or authorized agent, all applicable fields have been completed on the application and required schedules, and all required schedules are submitted). Payment has been made of all fees that are required, under the applicable by-law, resolution or regulation made under clause 7(1)(c) of the <i>Building Code Act, 1992</i> , to be paid when the application is made.	☒ Yes	☐ No
ii) This application is accompanied by the plans and specifications prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> .	☒ Yes	☐ No
iii) This application is accompanied by the information and documents prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> which enable the chief building official to determine whether the proposed building, construction or demolition will contravene any applicable law.	☒ Yes	☐ No
iv) The proposed building, construction or demolition will not contravene any applicable law.	☒ Yes	☐ No

I. Declaration of applicant

I, Jacob Pruner (print name) declare that:

- The information contained in this application, attached schedules, attached plans and specifications, and other attached documentation is true to the best of my knowledge.
- If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.

August 27 2026
Date

[Signature]
Signature of applicant

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act, 1992*, and will be used in the administration and enforcement of the *Building Code Act, 1992*. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 12th Floor. Toronto, ON M7A 2J3 (416) 585-6666.

Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Information

Building number, street name	3468 Old Montreal Rd	Unit no.	Lot/con. 7/1
Municipality	Cumberland	Postal code	K4C 1H9
Plan number/ other description			

B. Individual who reviews and takes responsibility for design activities

Name	Jacob Pruner	Firm	Green Valley Environmental Inc.
Street address	6107 First Line Rd.	Unit no.	Lot/con.
Municipality	Ridgeway	Postal code	K4M 1A7
Province	ON	E-mail	Engineering@gvegroup.ca
Telephone number	613-692-2616	Fax number	Cell number

C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1. of Division C]

- | | | |
|--|--|--|
| ☐ House | ☐ HVAC – House | ☐ Building Structural |
| ☐ Small Buildings | ☐ Building Services | ☐ Plumbing – House |
| ☐ Large Buildings | ☐ Detection, Lighting and Power | ☐ Plumbing – All Buildings |
| ☐ Complex Buildings | ☐ Fire Protection | ☒ On-site Sewage Systems |

Description of designer's work

Review design flow for changes.

D. Declaration of Designer

I, Jacob Pruner declare that (choose one as appropriate):
(print name)

I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4. of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories.

Individual BCIN: 113751

Firm BCIN: 16035

I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5. of Division C, of the Building Code.

Individual BCIN: _____

Basis for exemption from registration: _____

The design work is exempt from the registration and qualification requirements of the Building Code.

Basis for exemption from registration and qualification: _____

I certify that:

- The information contained in this schedule is true to the best of my knowledge.
- I have submitted this application with the knowledge and consent of the firm.

August 27 2026
Date

[Signature]
Signature of Designer

NOTE:

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) (c) of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Professional Engineers Ontario.

Schedule 2: Sewage System Installer Information

A. Project Information			
Building number, street name 3468 Old Montreal Rd.		Unit number	Lot/con. 7/1
Municipality Cumberland	Postal code K4C 1H9	Plan number/ other description	
B. Sewage system installer			
Is the installer of the sewage system engaged in the business of constructing on-site, installing, repairing, servicing, cleaning or emptying sewage systems, in accordance with Building Code Article 3.3.1.1, Division C?			
Yes (Continue to Section C)		☐ No (Continue to Section E)	☒ Installer unknown at time of application (Continue to Section E)
C. Registered installer information (where answer to B is "Yes")			
Name		BCIN	
Street address		Unit number	Lot/con.
Municipality	Postal code	Province	E-mail
Telephone number	Fax	Cell number	
D. Qualified supervisor information (where answer to section B is "Yes")			
Name of qualified supervisor(s)		Building Code Identification Number (BCIN)	
E. Declaration of Applicant:			
I <u>Jacob Pruner</u> (print name) declare that: I am the applicant for the permit to construct the sewage system. If the installer is unknown at time of application, I shall submit a new Schedule 2 prior to construction when the installer is known; <u>OR</u> I am the holder of the permit to construct the sewage system, and am submitting a new Schedule 2, now that the installer is known. I certify that: - The information contained in this schedule is true to the best of my knowledge. - If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership. August 27 2026 Date Signature of applicant			

Site Amendment/Description of Proposed Change/Renovation

☐ Residential ☒ Commercial Property

	#Existing		# Proposed		Total	
Bedrooms:		+		=		
Fixture Units		+		=		Schedule 8
Floor Area		+		=		m ²

☐ Exceeding 15% of the gross area of the dwelling units for proposed addition

☒ Additional bedrooms, dwellings, and/or plumbing fixture units.

☐ Change in Use:

o Major occupancy (e.g. residential to commercial)

o Occupant load (e.g. Office to warehouse)

Please describe proposed use:

Secondary building with kitchen facilities as opposed to a single building. Additional fixtures.

☐ Installation of a POOL not meeting O.B.C Regulation setback distances

☐ Installation of a DECK not meeting O.B.C Regulation setback distances

Required attachments

To be supplied by applicant/agent at applicant's expense:

1. One of the following documents to **DESCRIBE CURRENT SEPTIC SYSTEM** (ONE x1 copy):

☒ A. Copy of current sewage system approval (Use permit/ Certificate of Completion)

☐ B. Professional engineer's report indicating size and location of system

2. Each of these documents to **DESCRIBE PROPOSED RENOVATION** (ONE x1 copy)

☒ A. Copy of site plan: Drawn to scale, indicating the layout of the existing building, well, other structures i.e shed, workshop, cabana

☒ B. Completed Reno 10,11 Application Form

☒ C. Copy of Building Plans: Drawn to scale, showing the changes/additions as proposed



Do Not Complete
Permit # _____
Revision # _____
Date _____

Schedule 8 Fixture unit count

Fixtures	# Existing + # Proposed X unit count = Fixture Count					
Bathroom						
Bathroom group (toilet, sink and tub or shower) installed in the <u>same</u> room		+		X	6	=
Bathtub with/without overhead shower		+		X	1.5	=
<u>Urinal</u>	<u>1</u>	+		X	1.5	= <u>1.5</u>
Wash basin (SINK) (1½inch trap)	<u>2</u>	+	<u>3</u>	X	1.5	= <u>7.5</u>
Watercloset (TOILET) tank operated	<u>3</u>	+	<u>1</u>	X	4	= <u>16</u>
Bidet		+		X	1	=
Kitchen						
Dishwasher		+	<u>1</u>	X	1	= <u>1</u>
Sink with/without garbage grinder(s), domestic and other small type single, double or 2 single with a common trap		+	<u>1</u>	X	1.5	= <u>1.5</u>
Other						
Domestic washing machine		+		X	1.5	=
Combination sink and laundry tray single or double (Installed on 1½ trap)		+		X	1.5	=

*Total: 27.5

*Insert the TOTAL in section 5 of Schedule 4 (0.Reg 151/13 Table 7.4.9.3)

1. **Sump pumps and floor drains are not to be connected to the sewage system.** Connection of such fixtures to a sewage system may lead to a hydraulic failure of the said system. The above mentioned fixtures should be discharged separately to an approved Class 2 (leaching pit) sewage system.
2. Where laundry waste is not more than 20% of the total daily design sanitary sewage flow, it may discharge to a sewage system (Part 8, OBC, 8.1.3.1(2)).

Agent/Owner signature

Date

August 19 2026

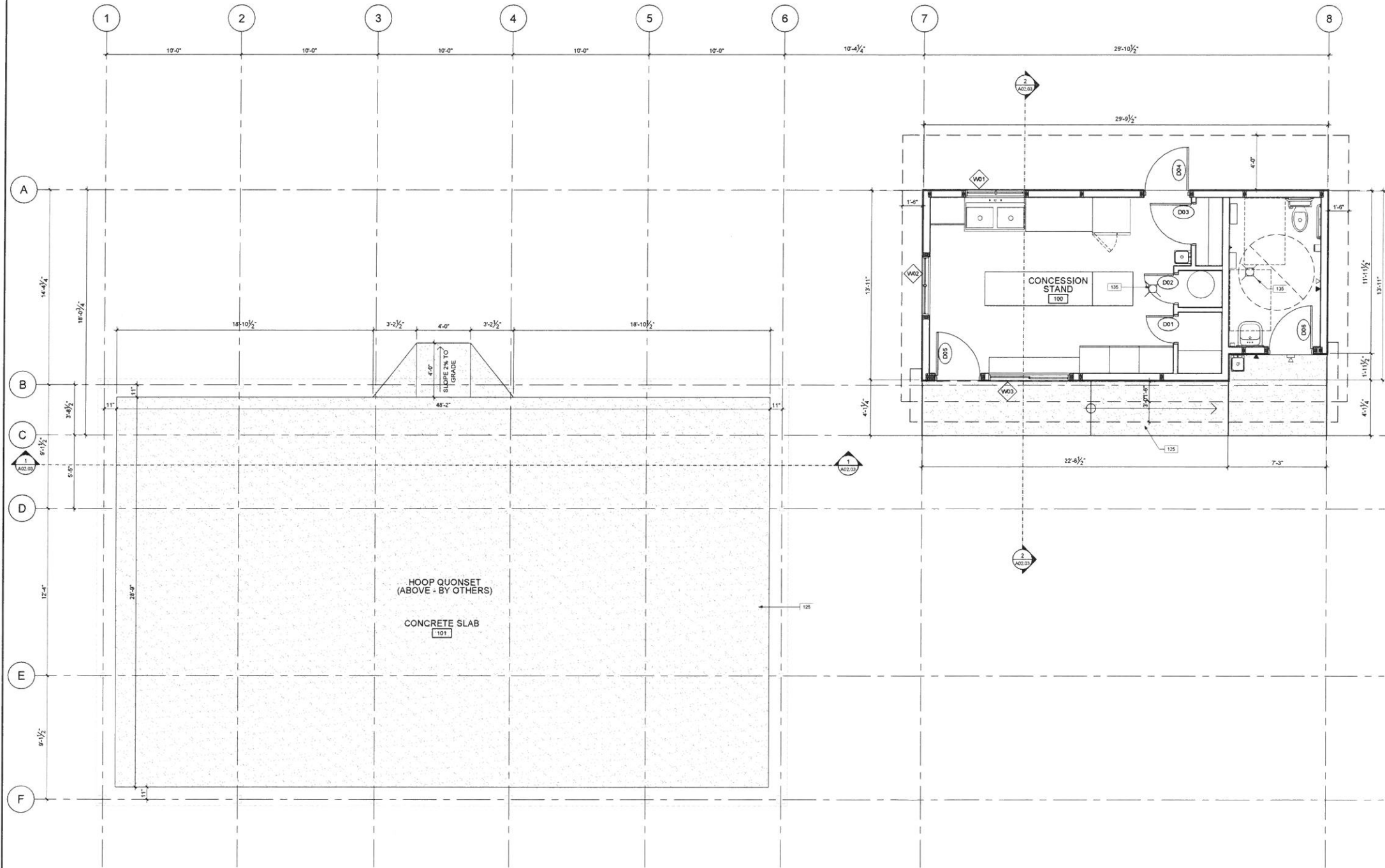


- | ELEVATION NOTES | |
|-----------------|--|
| 200 | WOOD CLADDING - VERTICAL BOARD & BATTEN |
| 201 | METAL DOOR WITH FROSTED GLASS INSERT & SELF-CLOSING DEVICE |
| 202 | WOOD DECK & RAMP, PRESSURE TREATED w/ STAIN FINISH |
| 203 | STANDING SEAM METAL ROOFING |
| 204 | ALUMINUM CLAD FASCIA BOARD & VENTED ALUMINUM SOFFIT |
| 205 | BATHROOM SIGNAGE |
| 206 | VINYL WINDOW |
| 207 | VERTICAL ALUMINUM CLADDING |
| 208 | PAINTED PLYWOOD |
| 209 | WOOD BEAMS - PRESSURE TREATED |



- A THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT.
- B DO NOT SCALE DRAWINGS.
- C ALL WORK SHALL COMPLY WITH THE ONTARIO BUILDING CODE AND THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
- D THIS DRAWING IS THE EXCLUSIVE PROPERTY OF CHRISTOPHER SIMMONDS ARCHITECT INC. COPYRIGHT RESERVED.

01	2025.11.20	SUBMIT FOR PERMIT
No.	DATE	DESCRIPTION
ARCHITECT'S SEAL:		PROJECT NORTH:
		
		340 Catherine Street Ottawa, ON K1R 1C4 613.567.7868 simmondsarch.com
PROJECT:		
HUMANICS PARK - WASHROOMS 3468 OLD MONTREAL RD. OTTAWA, ON, K4C 1C8		
DRAWING TITLE:		
PLANS, ELEVATIONS, SECTION NOTES		
DATE:	2025.11.13	DRAWING No:
SCALE:	VARIABLES	
DRAWN BY:	JAH	
JOB No:	913-25	
		A01.01



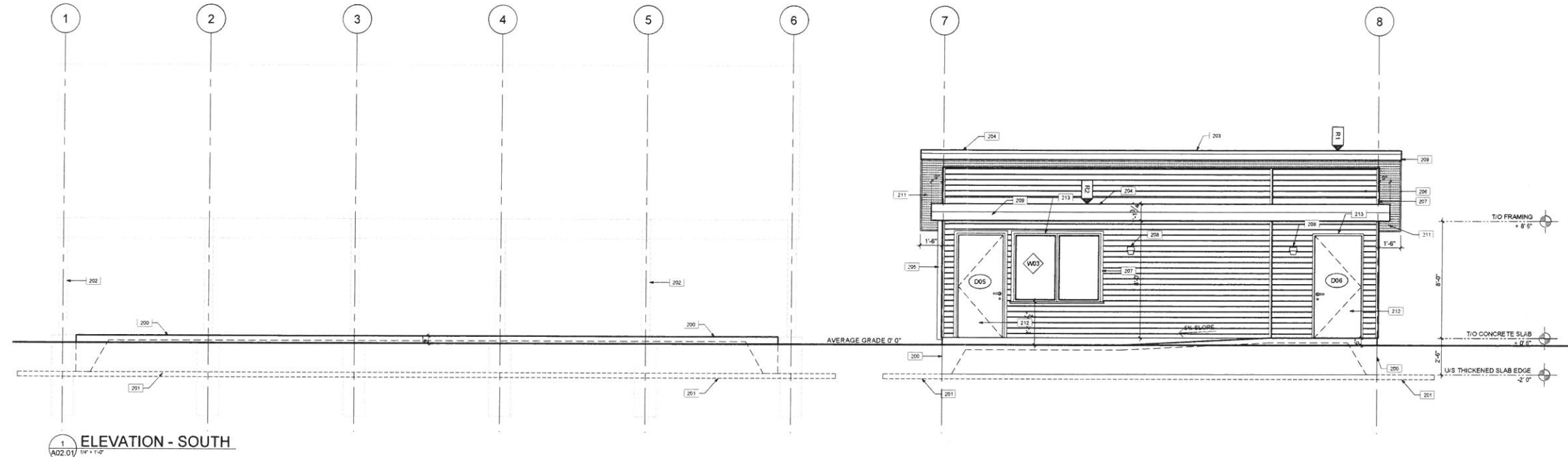
PLAN NOTES

- 100 30-40 mm DIA. 750 mm x 750 mm CONTINUOUS L-SHAPED GRAB BAR CONFORMING TO O.B.C. DIV. 2.3.8.3.8.(5) & (7) W/ 50 mm HAND CLEARANCE C/W SLIP RESISTANT SURFACE FINISH. PROVIDE BLOCKING AS REQUIRED
- 101 30-40 mm DIA. 600 mm GRAB BAR CONFORMING TO O.B.C. DIV. 2.3.8.3.8.(6)&(7) W/ 50 mm HAND CLEARANCE C/W SLIP RESISTANT SURFACE FINISH. PROVIDE BLOCKING AS REQUIRED
- 102 BARRIER-FREE COMPLIANT TOILET W/ TANK, ELONGATED BOWL & SEAT HEIGHT 430-485 mm A.F.F. CONFORMING TO O.B.C. DIV. 2.3.8.3.9.
- 103 EMERGENCY CALL SYSTEM BUTTON WITH AUDIBLE & VISUAL SIGNAL MOUNTED 35.5"-43.5"/16" A.F.F. PROVIDE EMERGENCY SIGN THAT CONTAINS THE WORDS "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE" IN LETTERS AT LEAST 25 MM (1") HIGH WITH A 5 MM (3/16"). POSTED ABOVE THE EMERGENCY BUTTON
- 104 TOILET PAPER DISPENSER
- 105 WALL MOUNTED EMERGENCY CALL SYSTEM AUDIO & VISUAL SIGNAL DEVICES LOCATED ABOVE THE DOORWAY WITHIN AND OUTSIDE THE WASHROOM IN CONFORMANCE W/ O.B.C. DIV. 2.3.8.3.12.(2)(a)
- 106 CIRCULAR 150 mm DIA. (MIN.) OR RECTANGULAR 50 mm x 100 mm (MIN.) POWER DOOR OPERATOR CONTROL PADDLE LOCATED IN CONFORMANCE W/ O.B.C. DIV. 2.3.8.3.3.(17).
- 107 CIRCULAR 150 mm DIA. (MIN.) OR RECTANGULAR 50 mm x 100 mm (MIN.) POWER DOOR OPERATOR CONTROL PADDLE LOCATED IN CONFORMANCE W/ O.B.C. DIV. 2.3.8.3.3.(17). - MAINTAIN 12" CLEARANCE FROM DOOR OPENING
- 108 914 mm x 559 mm x 102 mm BARRIER-FREE COMPLIANT WALL-MOUNTED LAVATORY SINK.
- 109 WALL SURFACE-MOUNTED SOAP DISPENSER. TO BE OPERABLE USING A CLOSED FIST, LOCATE NOT MORE THAN 43-51/16" AFF. AND 19-11/16" FROM THE FRONT OF THE LAVATORY
- 110 COMBINED GARBAGE & PAPER TOWEL DISPENSER. TOWEL DISPENSER TO BE OPERABLE WITH ONE HAND. DISPENSING HEIGHT MAX 47.25" AFF
- 111 COAT HOOK CONFORMING TO O.B.C. DIV. 2.3.8.3.8.(1)(a) W/ MAX PROJECTION OF 50 mm FROM FINISHED FACE OF WALL.
- 112 WALL MOUNTED SHELF. MAX. DEPTH 100 mm FROM WALL FINISH IN CONFORMANCE W/ O.B.C. DIV. 2.3.8.3.12.(1)(g).
- 113 WALL MOUNT MIRROR
- 114 "PUSH TO LOCK" PUSH BUTTON ACTIVATING DOOR ELECTRIC STRIKE.
- 115 UPFLIGHT FREEZER
- 116 UPFLIGHT FREEZER
- 117 DOUBLE-SINK
- 118 WORKSTATION/COUNTER WITH STORAGE BELOW
- 119 UNDER-COUNTER DISHWASHER - COMMERCIAL GRADE
- 120 HAND-WASH SINK - WALL MOUNT
- 121 HAND-WASH SINK - WALL MOUNT - EXTERIOR GRADE
- 122 HOT WATER TANK - SECURE TO FRAMING
- 123 SHELVEING
- 124 RATIONAL iCOMBI PRO 6-HALF WALL OVEN w/ INTEGRATED VENT-LESS CONDENSATION HOOD
- 125 REINFORCED CONCRETE SLAB-ON-GRADE WITH THICKENED PERIMETER
- 126 RIGID INSULATION FROST PROTECTION
- 127 HOOP QUONSET AND SUPPORTING STRUCTURE BY OTHERS
- 128 STANDING SEAM METAL ROOFING
- 129 METAL FLASHING w/ DRIP EDGE
- 130 2-PLY MODIFIED BITUMEN
- 131 PREFINISHED METAL DRAIN - 3 1/2"
- 132 OUTLINE OF FRAMING ABOVE/BELOW
- 133 WEEP/TIE TILE SYSTEM - 4" DIAMETER PERFORATED PLASTIC DRAIN PIPE w/ FILTER FABRIC SURROUND COVERED IN 8" MIN. CRUSHED STONE OR GRAVEL
- 134 1% SLOPE TO DRAINS
- 135 FLOOR DRAIN

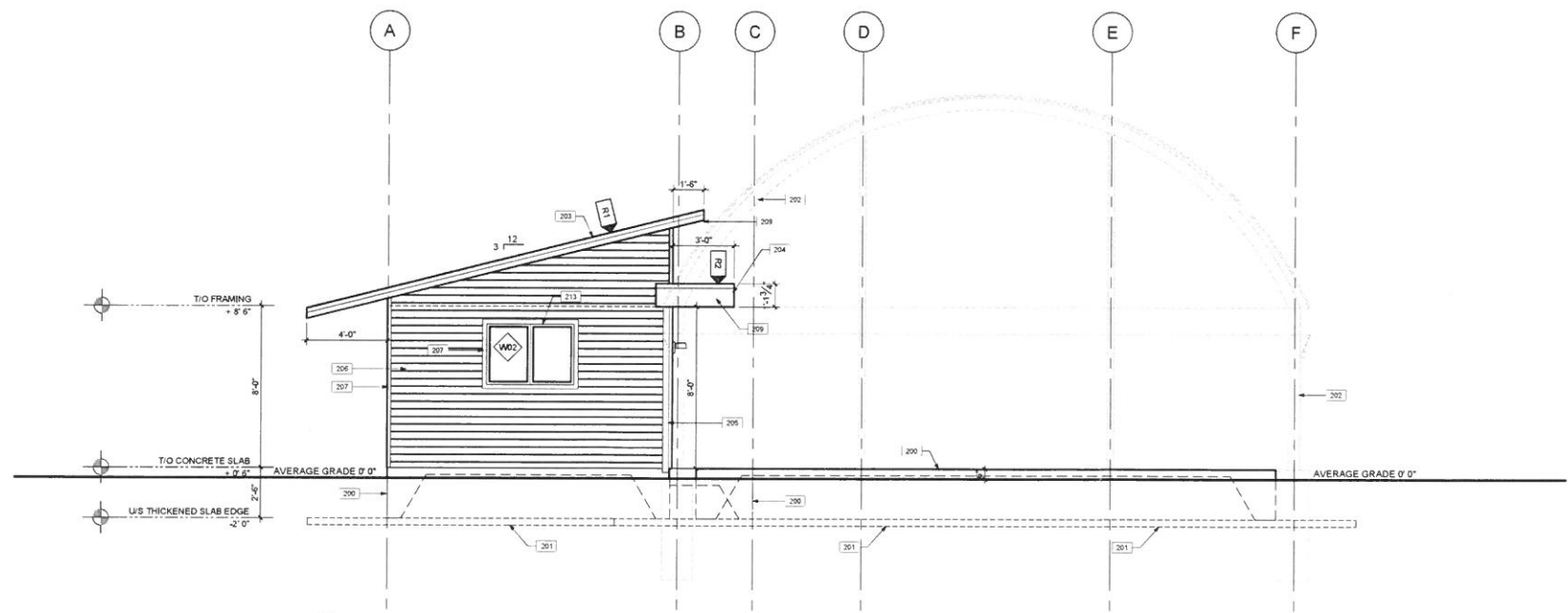
GENERAL NOTES

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01	2025.11.26	ISSUED FOR PERMIT
No.	DATE	DESCRIPTION
ARCHITECT'S SEAL:		PROJECT NORTH:
		
simmonds ARCHITECTURE		
340 Catherine Street Ottawa, ON K1R 1C4 613.967.7888 simmondsarch.com		
PROJECT: HUMANICS PARK - OUTBUILDINGS 3468 OLD MONTREAL RD. OTTAWA, ON, K4C 1C8		
DRAWING TITLE: GROUND FLOOR PLAN		
DATE:	2025.10.29	DRAWING No:
SCALE:	1/4" = 1'-0"	
DRAWN BY:	JAH	
JOB No:	913-25	A01.01



1
A02.01
ELEVATION - SOUTH
1/4" = 1'-0"



2
A02.01
ELEVATION - WEST
1/4" = 1'-0"

ELEVATION NOTES

DX

- 200 REINFORCED CONCRETE SLAB-ON-GRADE WITH THICKENED PERIMETER
- 201 HI-40 RIGID INSULATION FROST PROTECTION - EXTEND 48" FROM SLAB EDGE MINIMUM - 4" THICK
- 202 HOOP QUONSET AND SUPPORTING STRUCTURE BY OTHERS
- 203 STANDING SEAM METAL ROOFING
- 204 METAL FLASHING w. DRIP EDGE
- 205 PRE-FINISHED METAL DRAIN - 3 1/2"
- 206 LAPPED WOOD SIDING
- 207 WOOD TRIM - 3-1/4"
- 208 EXTERIOR LIGHT FIXTURE - LED - WALL MOUNT
- 209 WOOD FASCIA BOARD WITH METAL CLADDING TO MATCH ROOFING MATERIAL
- 210 3 1/2" x 3 1/2" WOOD POST - PAINT FINISH
- 211 VENTED SOFFIT w CLIPS - ALUMINUM
- 212 SOLID CORE METAL DOOR - INSULATED
- 213 FLASHING w DRIP EDGE AT ALL WINDOW/DOOR HEADS AND SILLS
- 214 WEEPING TILE SYSTEM: 4" DIAMETER PERFORATED PLASTIC DRAIN PIPE w FILTER FABRIC SURROUND COVERED IN 8" MIN. CRUSHED STONE OR GRAVEL
- 215 BACKFILL, NON-FROST SUSCEPTIBLE, COMPACTED TO MIN. 95% PROCTOR TEST OR AS PER GEO-TECH REPORT
- 216 15M BARS @ 12" O.C. EACH WAY PLACED 2" FROM TOP
- 217 REINFORCE SLAB EDGES w 4-15M BARS, CONTINUOUS c/w 2x24 CORNER BARS
- 218 15M BARS WRAPPED AROUND 15M EDGE REINFORCEMENT - TYPICAL

GENERAL NOTES

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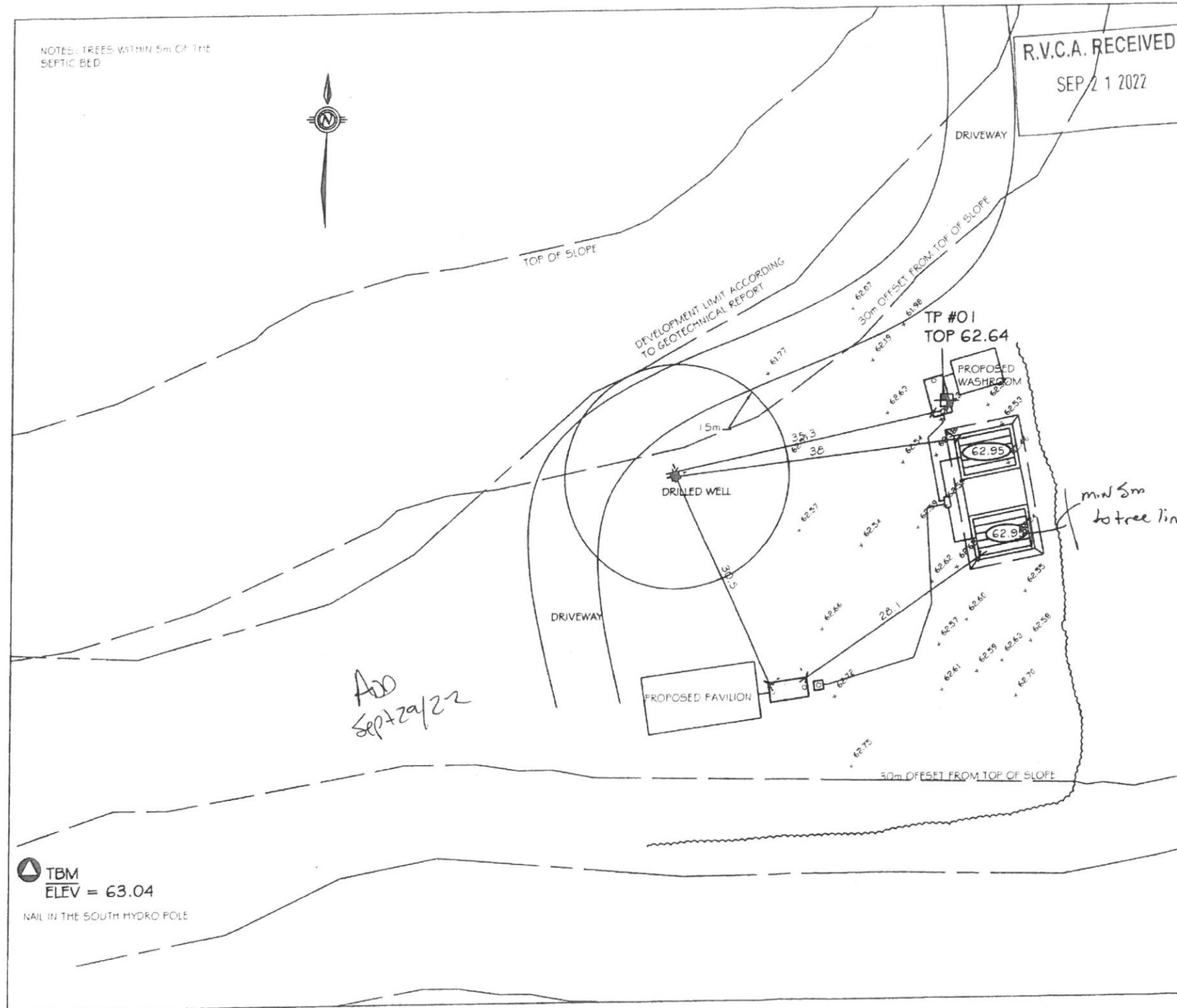
FOR STRUCTURAL ONLY

01	2025.11.26	ISSUED FOR PERMIT
No.	DATE	DESCRIPTION
ARCHITECT'S SEAL		PROJECT NORTH:
PROJECT:		340 Catherine Street Ottawa, ON K1R 1C4 613.567.7888 simmondsarch.com
HUMANICS PARK - OUTBUILDINGS 3468 OLD MONTREAL RD. OTTAWA, ON, K4C 1C8		
DRAWING TITLE:		
ELEVATIONS SOUTH & WEST		
DATE:	2025.10.29	DRAWING No:
SCALE:	1/4" = 1'-0"	
DRAWN BY:	JAH	
JOB No	913-25	A02.01

NOTES: TREES WITHIN 5m OF THE SEPTIC BED



R.V.C.A. RECEIVED
SEP 21 2022



NOTES:

1. ALL TREATMENT UNITS AND LEACHING BED ARE TO BE INSTALLED IN ACCORDANCE WITH MINIMUM OBC CLEARANCE DISTANCES. ANY OMISSIONS OR INACCURACIES SHALL BE BROUGHT TO THE ATTENTION OF GVE AND OSSO.
2. CARE IS TO BE EXERCISED DURING CONSTRUCTION ACTIVITIES NEAR OVERHEAD HYDRO WIRES.
3. EXISTING ELEVATIONS ARE APPROXIMATE. CONTRACTOR MUST VERIFY ALL ELEVATIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.
4. SOIL CONDITIONS ARE ACCURATE FOR THE LOCATIONS SHOWN. CONTRACTOR MUST CONTACT THE DESIGN ENGINEER OR REGULATORY AUTHORITY SHOULD SOIL CONDITIONS DIFFER.
5. ALL DIMENSIONS AND CONDITIONS TO BE VERIFIED ON SITE. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALE.
6. UTILITY LOCATES SHALL BE COMPLETED PRIOR TO ANY EXCAVATION.
7. THIS IS NOT A PLAN OF SURVEY AND SHALL NOT BE USED EXCEPT FOR THE PURPOSE INDICATED IN THE TITLE BLOCK.
8. THIS DOCUMENT IS COPYRIGHT PROTECTED AND IS THE SOLE PROPERTY OF GVE GROUP. THIS DRAWING SHALL NOT BE ALTERED IN ANY MANNER.
9. EXISTING LOT SERVICED WITH A DRILLED WELL.

METRIC:

DISTANCES AND ELEVATIONS SHOWN ON THIS PLAN ARE IN METERS AND MAY BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

LEGEND:

- PROPOSED ELEVATION
- EXISTING ELEVATION
- EXISTING WORKS
- PROPOSED SEWAGE WORKS
- FENCE LINE
- PROPERTY LINE
- TBM
(DESCRIPTION: NAIL IN SOUTH HYDRO POLE)
- TEST FIT LOCATION

SEPARATION DISTANCES:

1. MINIMUM CLEARANCE FROM SEPTIC PIPE TO:
LOT LINE = 4.0m
HOUSE = 6.0m
DRILLED WELL = 16.0m
2. MINIMUM CLEARANCE FROM TREATMENT UNITS TO:
LOT LINE = 3.0m
HOUSE = 1.5m
DRILLED WELL = 15.0m

Rev.	Description	Date	Approved
Township	Plan#	Lot	Sublot
Con	5F-6553-20		
3465 OLD MONTREAL RD.	19/09/22	1:300	
GREEN VALLEY ENVIRONMENTAL			
RANJIT PERERA			