

ABBREVIATIONS LIST

&	AND
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BOS	BOTTOM OF STEEL
BOT	BOTTOM / BOTTOM OF
BRG	BEARING
CJ	CONSTRUCTION / CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
DIA, Ø	DIAMETER
(E)	EXISTING
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEV	ELEVATION
EQ	EQUAL
EW	EACH WAY
FNDN	FOUNDATION
FIN FLR	FINISHED FLOOR
FTG	FOOTING
GA	GAGE
GC	GENERAL CONTRACTOR
GYP BD	GYPSUM BOARD
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
INFO	INFORMATION
JBE	JOIST BEARING ELEVATION
JT	JOINT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
LEH	LONG EDGE HORIZONTAL
LEV	LONG EDGE VERTICAL
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
PAF	POWDER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PEF	EFFECTIVE PRESTRESS FORCE
PJ	PANEL JOINT
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
REF	REFERENCE / REFER TO
REINF	REINFORCING
REQD	REQUIRED
RTU	ROOF TOP UNIT
SDI	STEEL DECK INSTITUTE
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SPECS	SPECIFICATIONS
STL	STEEL
TB	TOP OF BEAM
TC	TOP OF CONCRETE
TF	TOP OF FOOTING
THK	THICKNESS
TOP	TOP OF PIER
TOS	TOP OF STEEL
TP	TOP OF PANEL OR TOP PLATE
TRANS	TRANSVERSE
(TYP)	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL

GENERAL STRUCTURAL NOTES

GENERAL NOTES

G1	United States Building Code: International Building Code (IBC), 2021		
	Gravity Load Design Data: Roof Dead Load Roof Live Load	5 psf 20 psf	
	Wind Design Data: Ultimate Design Wind Speed, V _{ULT} Building Risk Category Wind Exposure Category	105 mph II C	
	Snow Load Design Data: Ground Snow Load, P _G	25 psf	
G2	Canadian Building Code: National Building Code of Canada, 2015		
	Gravity Load Design Data: Roof Dead Load Roof Live Load (Reducible)	0.24 kN/m2 1.00 kN/m2	
	Wind Design Data: Hourly Wind Pressure (1/50 years) Building Risk Category Wind Exposure Factor	0.66 KPa Normal 0.8	
	Snow Load Design Data: Ground Snow Load, S _s Associated Rain Load, S _r Wind Exposure Factor, C _w	1.5 kPa 0.2 kPa 0.75	

GENERAL CONDITIONS

GC1	The general contractor shall verify all dimensions and conditions at the job site, and shall be responsible for conditions of all work and materials, including those furnished by subcontractors.
GC2	Details shown on drawings apply at all like conditions.
GC3	All materials and workmanship shall be performed in accordance with local standards and to the applicable provisions of the governing building code.
GC4	These drawings show only representative and typical details to assist the contractor. The drawings do not illustrate every condition. All attachments, connections, fastenings, etc., shall be properly secured in conformance with the best practice, and the contractor shall be responsible for providing and installing them.

FOUNDATIONS

F1	The foundations have been designed using an allowable soil bearing value of 1,500 psf (72 kPa) for grade beams in accordance with the minimum values of the International Building Code.
F2	Grade beams dimensions and/or locations may not be altered without approval by the engineer.
F3	All organic and deleterious material, as well as any other unsuitable material, shall be removed within the building pad area, and beyond openings and other settlement-sensitive areas.

CONCRETE

C1	Concrete work shall be executed in strict accordance with ACI 318-11, Building Code Requirements for Structural Concrete and, except as modified by these Contract Documents, shall conform to all requirements of ACI 301-10, Specifications for Structural Concrete.
C2	Concrete specifications shall be as follows: Minimum compressive strength at 28 days (all concrete) 3,000 psi (20Mpa) Portland cement shall conform to ASTM C150 Type I / II
C3	Normal weight concrete shall have a maximum unit weight of 150 pcf. Aggregates for normal weight concrete shall conform to ASTM C33, with a nominal maximum aggregate size of 1-1/2" (38 mm).
C4	If Fly Ash is used, it shall conform to ASTM C618, Type "F" or Type "C" and shall be a minimum 15% and maximum 25% by mass replacement of Portland Cement.
C7	Job site conditions shall be verified by the contractor prior to the fabrication of materials.
C12	Concrete clear cover, unless noted otherwise on the drawings, shall conform to: Concrete cast against and permanently exposed to earth: 3" (75 mm) Concrete exposed to earth or weather: 1½" (38 mm) No. 3 – No. 5 bars

CONCRETE REINFORCEMENT

R1	All reinforcement shall conform to ASTM A615 Grade 60 (410 Mpa).
R2	Reinforcing steel shall be designed, detailed, fabricated and placed in accordance with the latest ACI Detailing Manual (SP-66) and CSRI Manual of Standard Practice.
R3	Corner reinforcing bars shall be used at all corners and intersections. See typical detail.
R4	Splices in reinforcement shall occur at points of minimum stress and, unless noted otherwise, with a minimum lap of 50 times diameter.
R5	Except as provided in ACI 318-14, Building Code Requirements for Structural Concrete, all welding of reinforcement shall conform to "Recommended Practices for Welding Reinforcing Steel, Metal Inserts, and Connections in Reinforced Concrete Construction" (AWS D12.1).

ALUMINUM

A1	All aluminum shapes and plates shall be alloy type 6061-T6 or 6063-T6.
A2	Galvanic seperation shall be provided where aluminum is in contact with steel.
A3	Reference the manufacturer's assembly documents for identification of all custom aluminum shapes. The greenhouse manufacturer assembly documents and aluminum profiles were created by Janssens Alusysems of Lier, Belgium for the "Helios SL" model aluminum greenhouses imported to North America by Exaco Trading Company of Austin, Texas.

SYMBOLS & HATCHING

	INDICATES PLAN OR SECTION DETAIL
	INDICATES STEP IN ELEVATION
	INDICATES REFERENCED ELEVATIONS
	INDICATES SECTION CUT
	INDICATES ELEVATION
	INDICATES OPENING IN SLAB
	INDICATES REVISIONS / ADDENDUMS
	INDICATES EARTH

JANSSENS: KATHEDRAL GREENHOUSE
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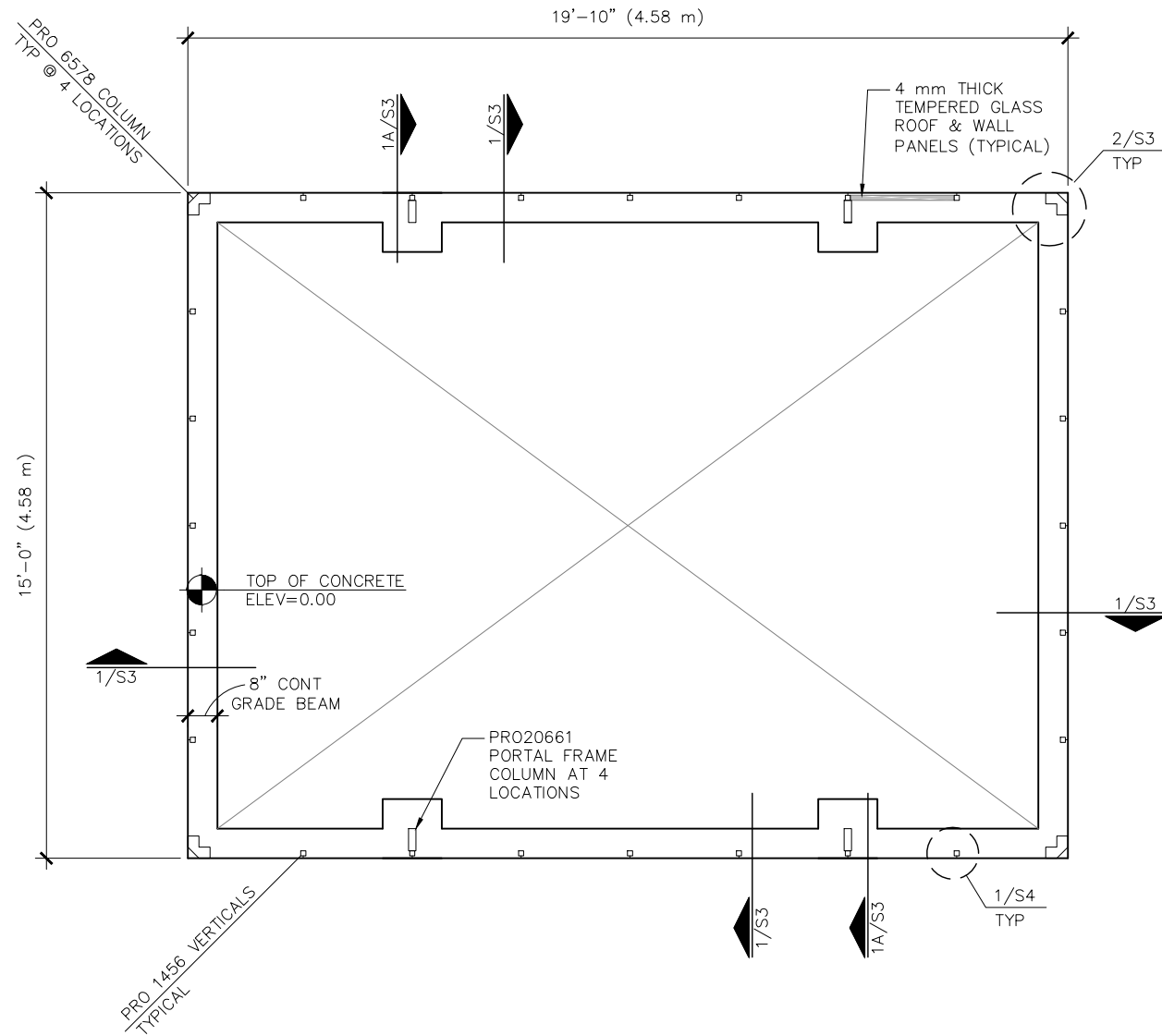
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GENERAL
STRUCTURAL
NOTES

DATE
2022-05-08

ISSUE LOG
PERMIT SET

50



1 FOUNDATION PLAN
SCALE: 1/4"=1'-0" (@ 11x17)



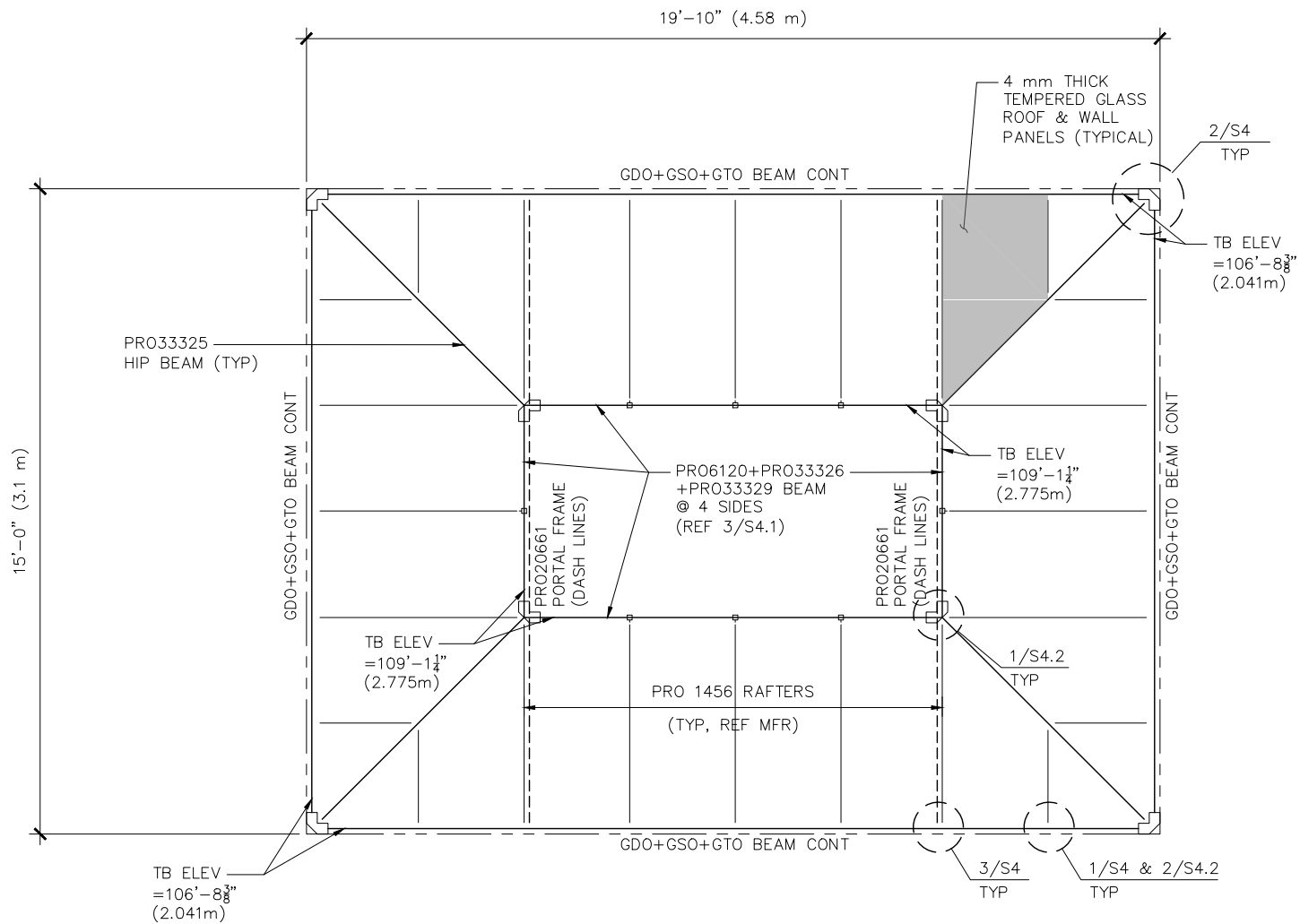
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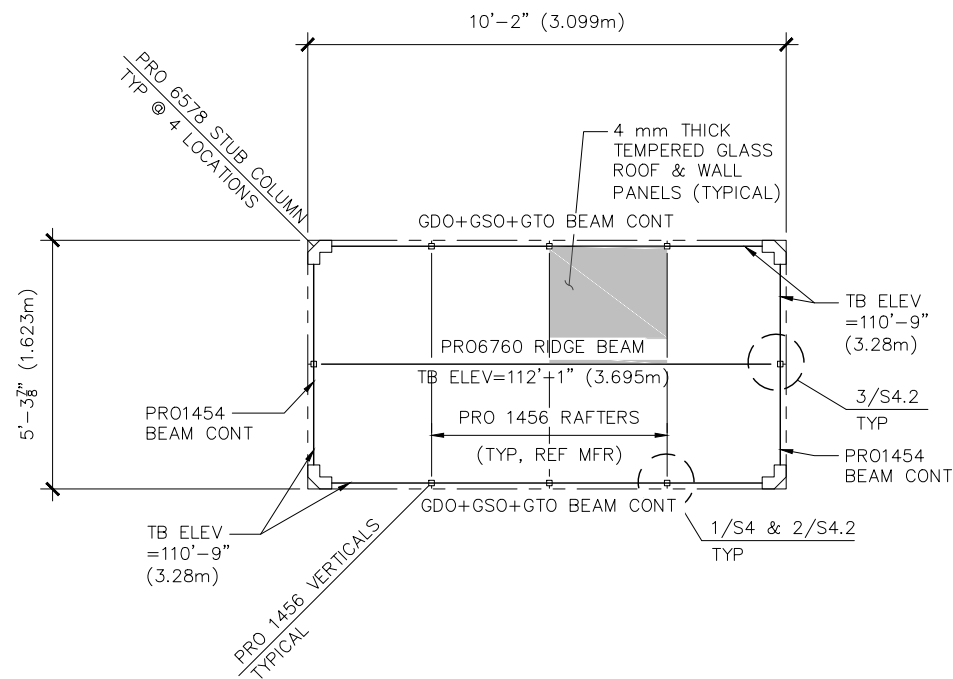
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ISSUE LOG	DATE	FOUNDATION PLAN
PERMIT SET	2022-05-08	

		S1
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1 LOW ROOF FRAMING PLAN
SCALE: 1/4"=1'-0" (@ 11x17)



2 UPPER ROOF FRAMING PLAN
SCALE: 1/4"=1'-0" (@ 11x17)



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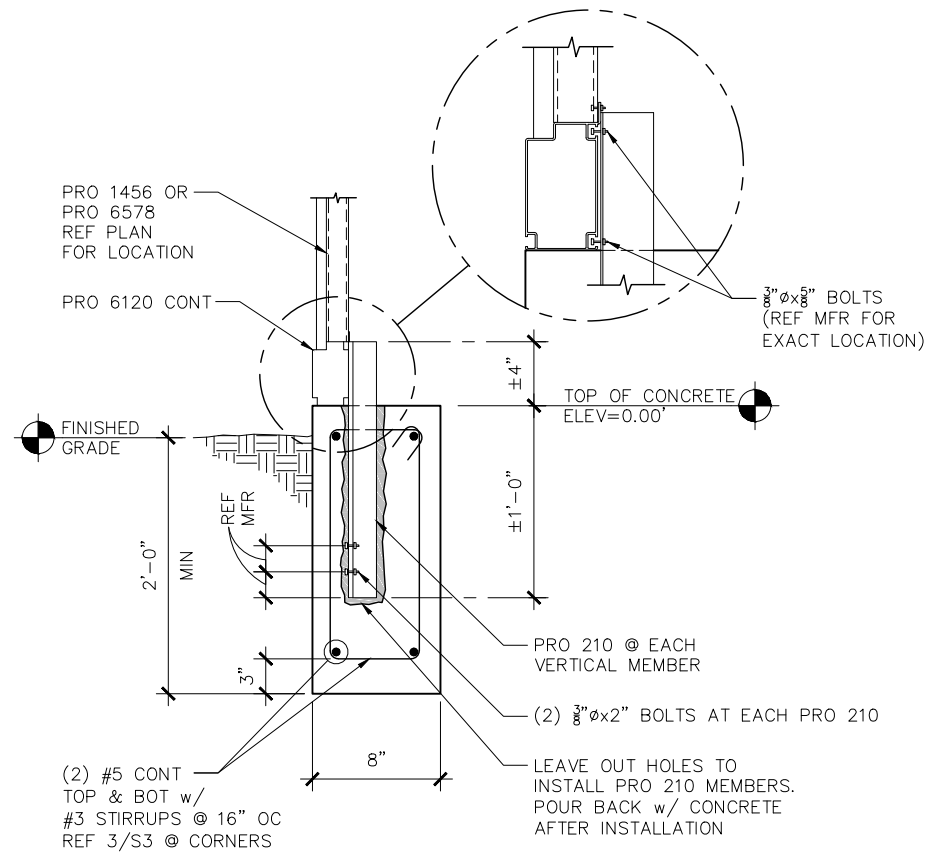
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ISSUE LOG
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2022-05-08

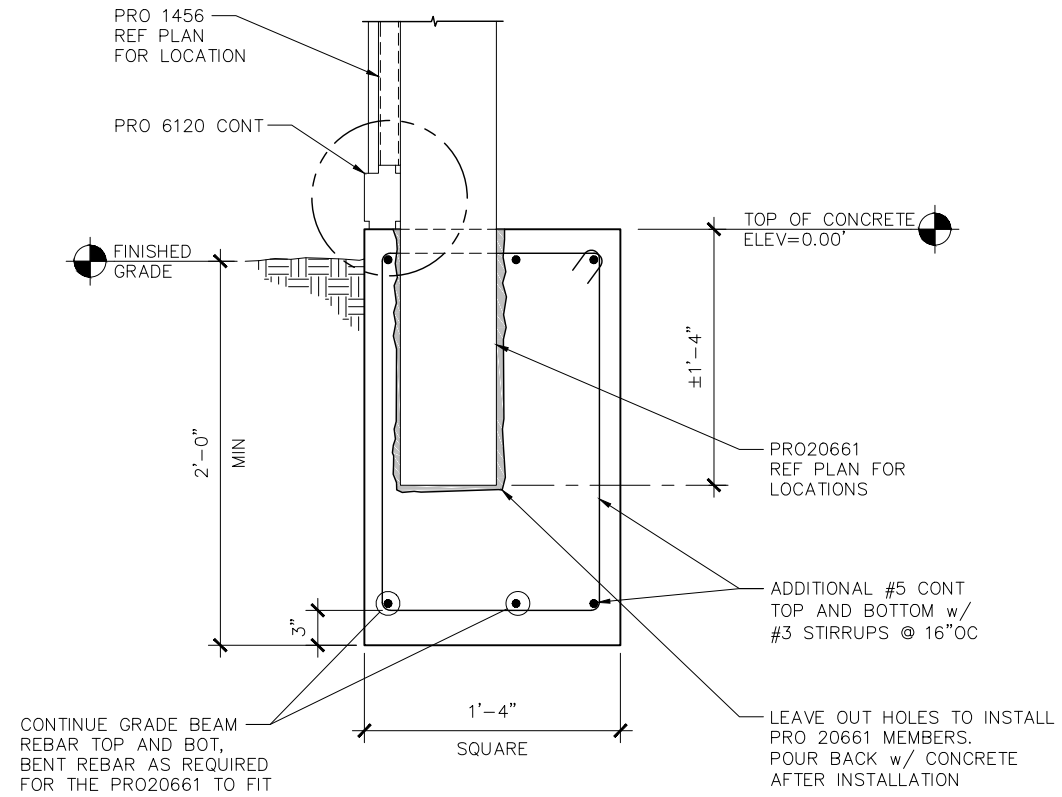
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ROOF FRAMING
PLAN

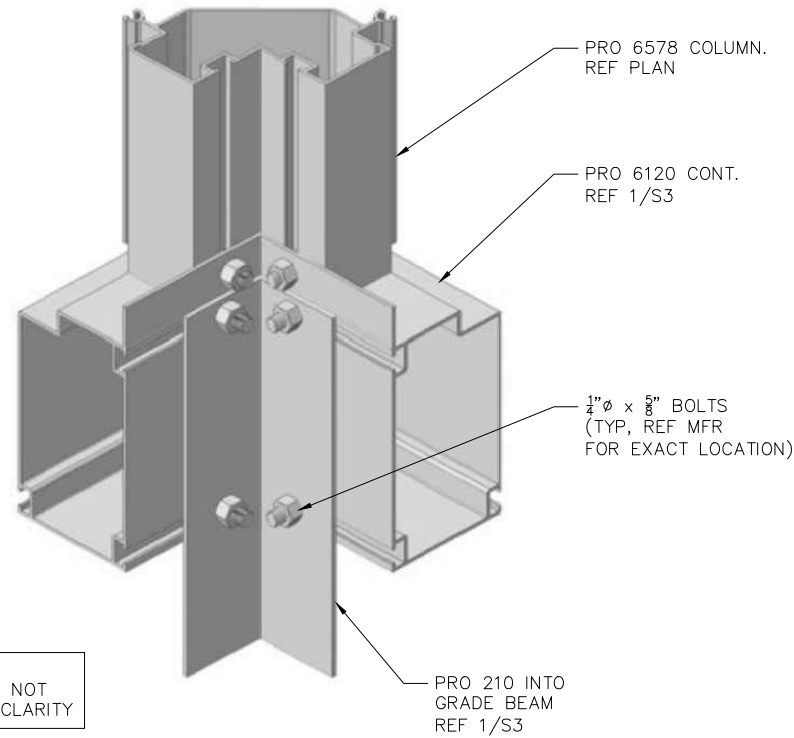
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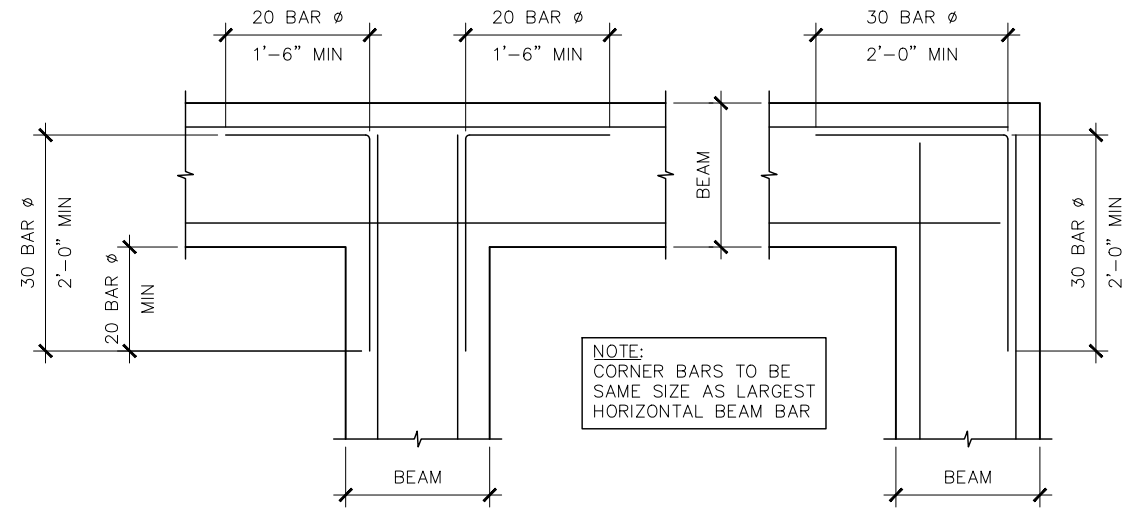
1 TYPICAL GRADE BEAM
SCALE: 1 1/2"=1'-0" (@ 11x17)



1A TYPICAL ENLARGED GRADE BEAM
SCALE: 1 1/2"=1'-0" (@ 11x17)



2 CORNER BASE 3D CONNECTION
SCALE: 1/2"=1'-0" (@ 11x17)



3 TYP CORNER BAR DETAIL
NTS



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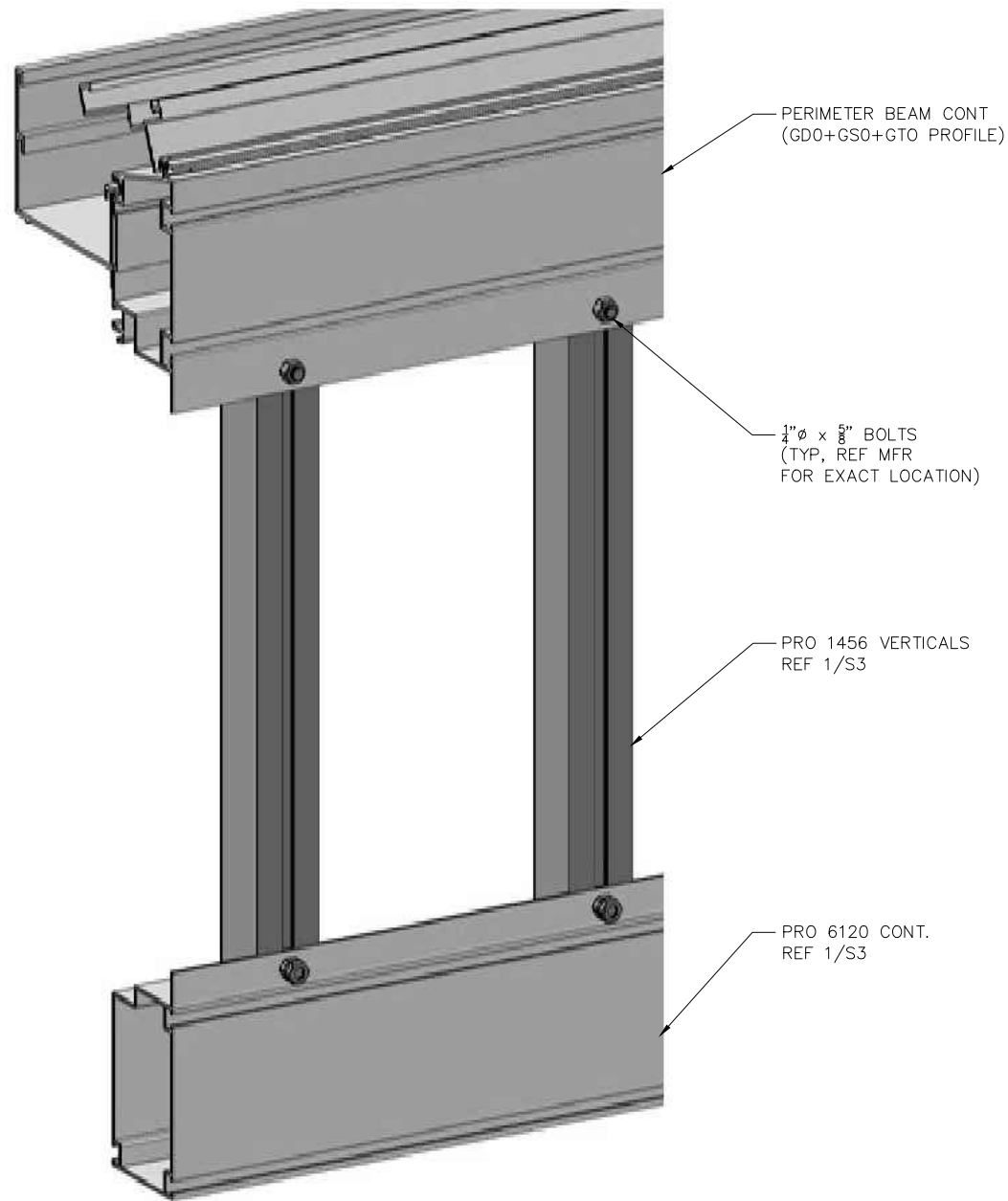
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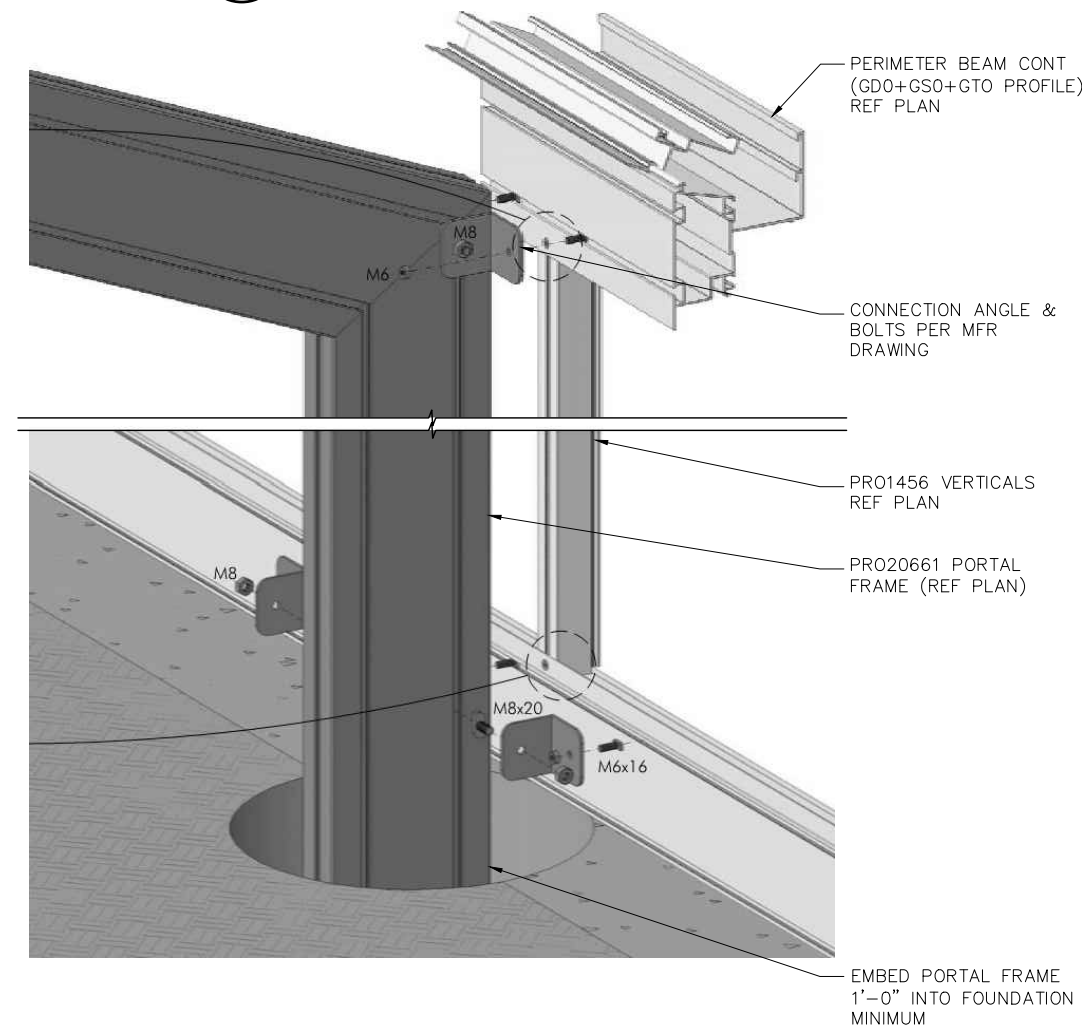
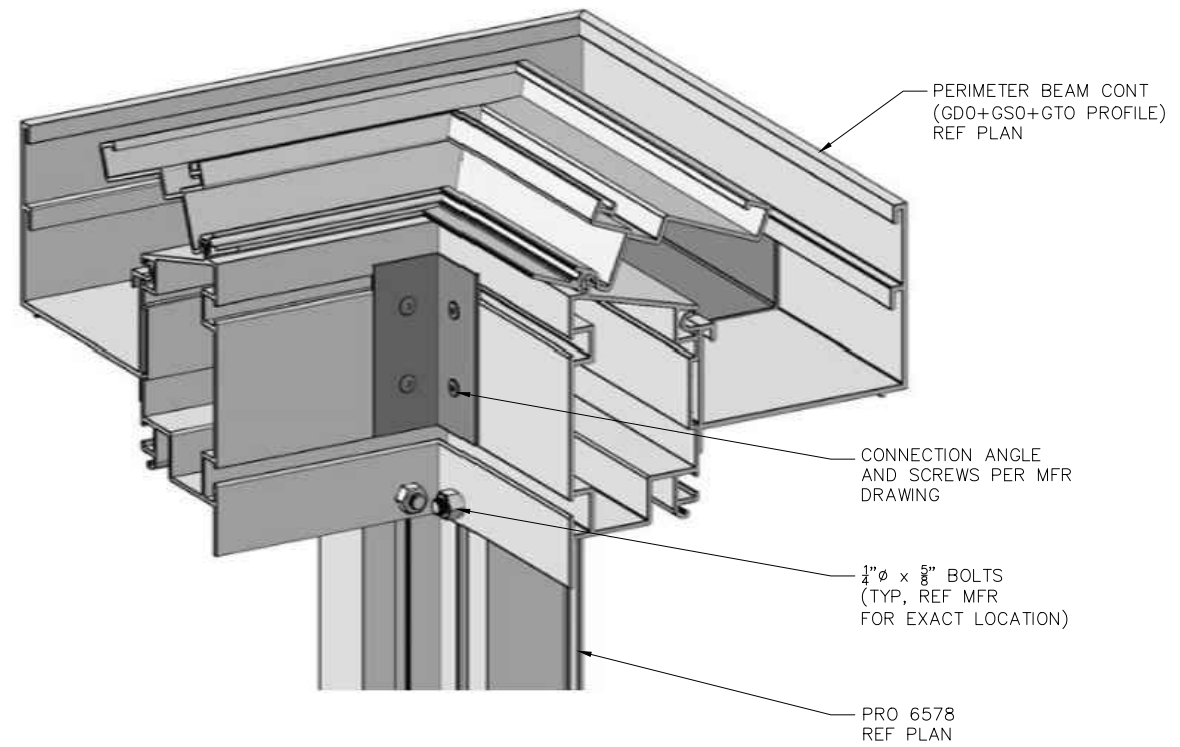
MANUFACTURER DETAILS

S3

1 VERTICAL MEMBER CONNECTION



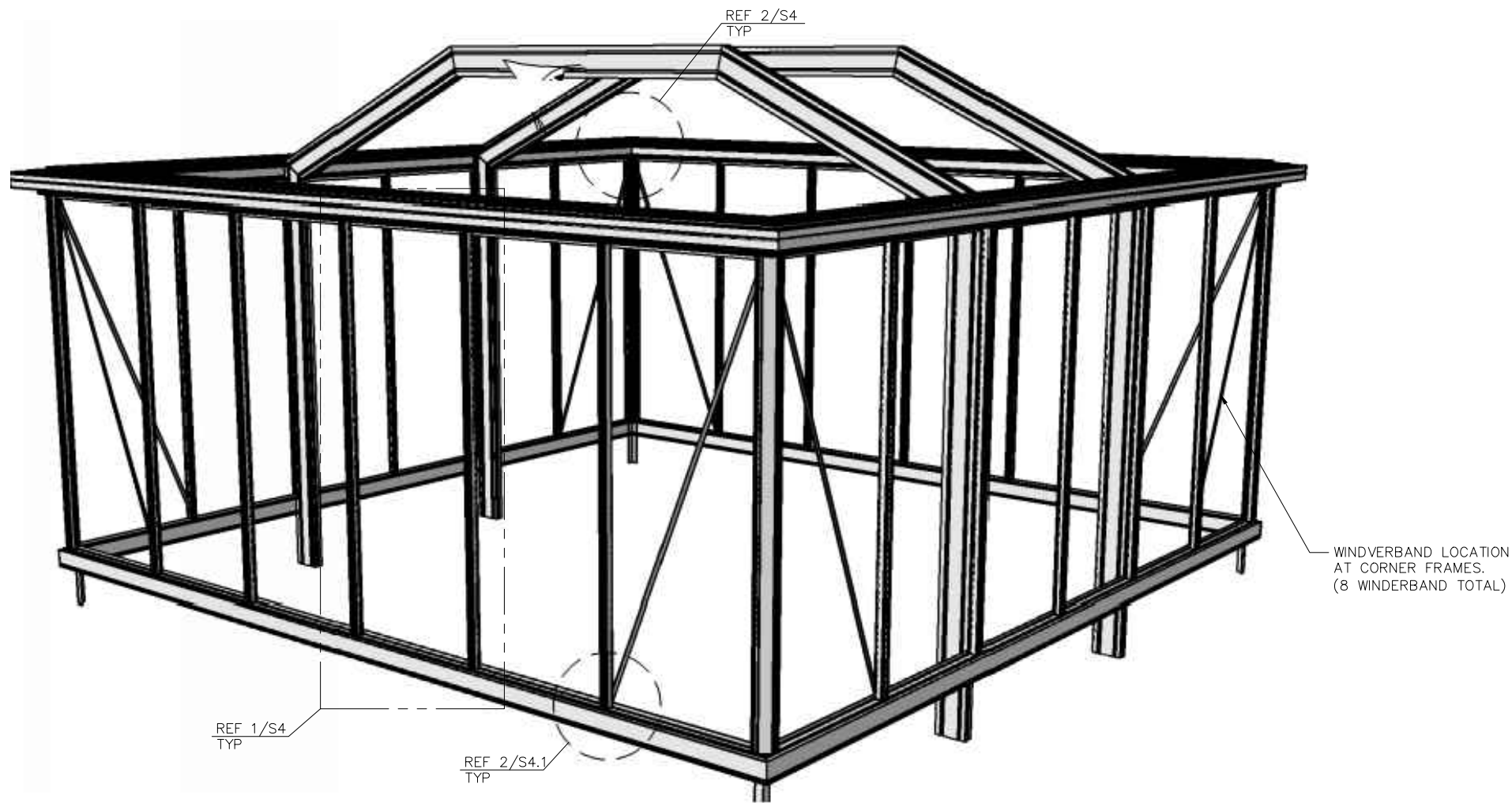
2 PERIMETER BEAM CORNER



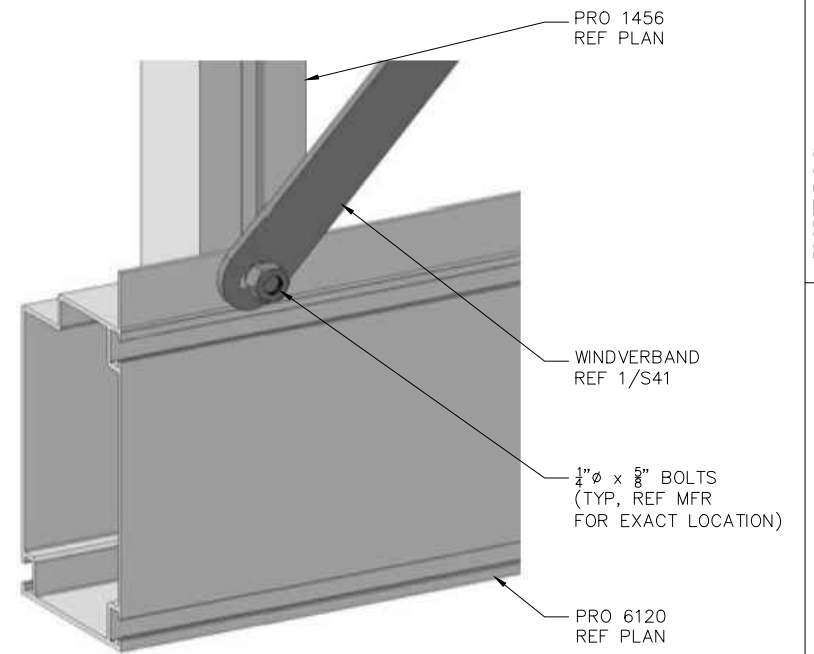
3 PORTAL FRAME CONNECTION



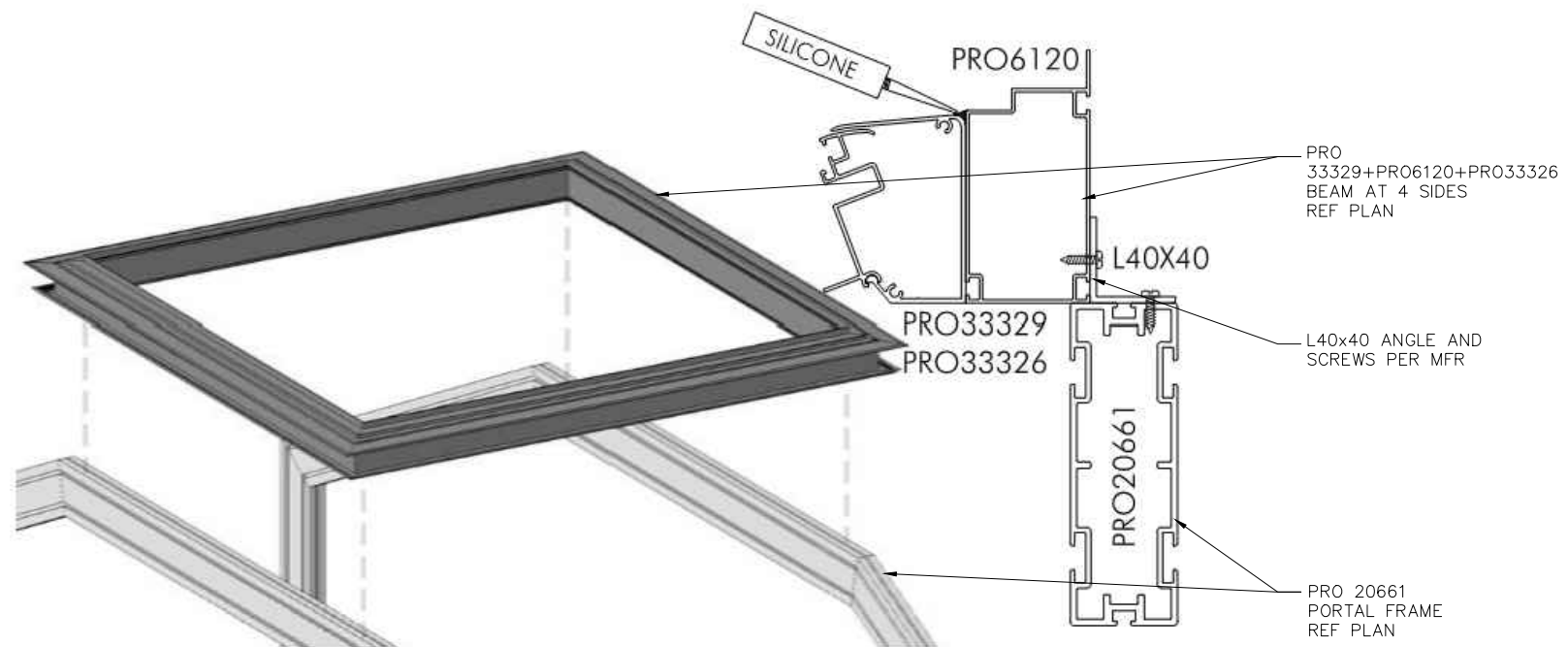
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② LATERAL BRACING & FRAME

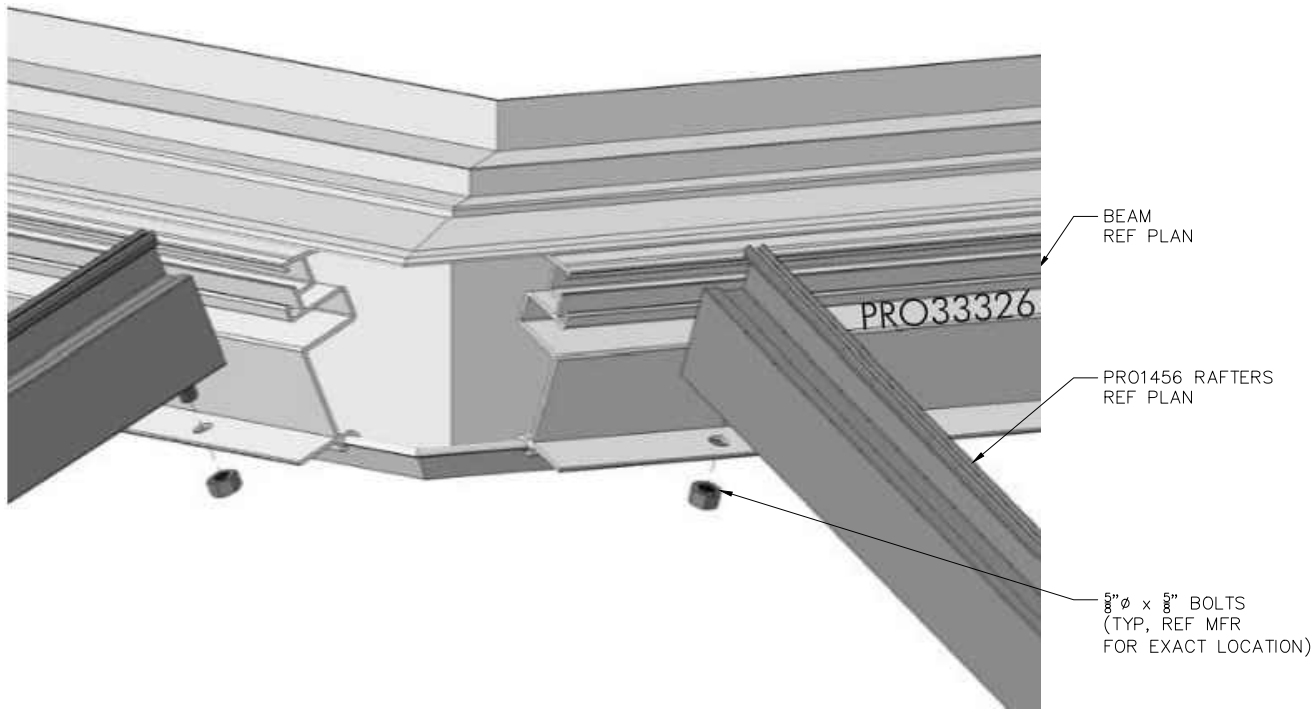


② WIND BRACING CONNECTION



③ UPPER FRAMING DETAIL

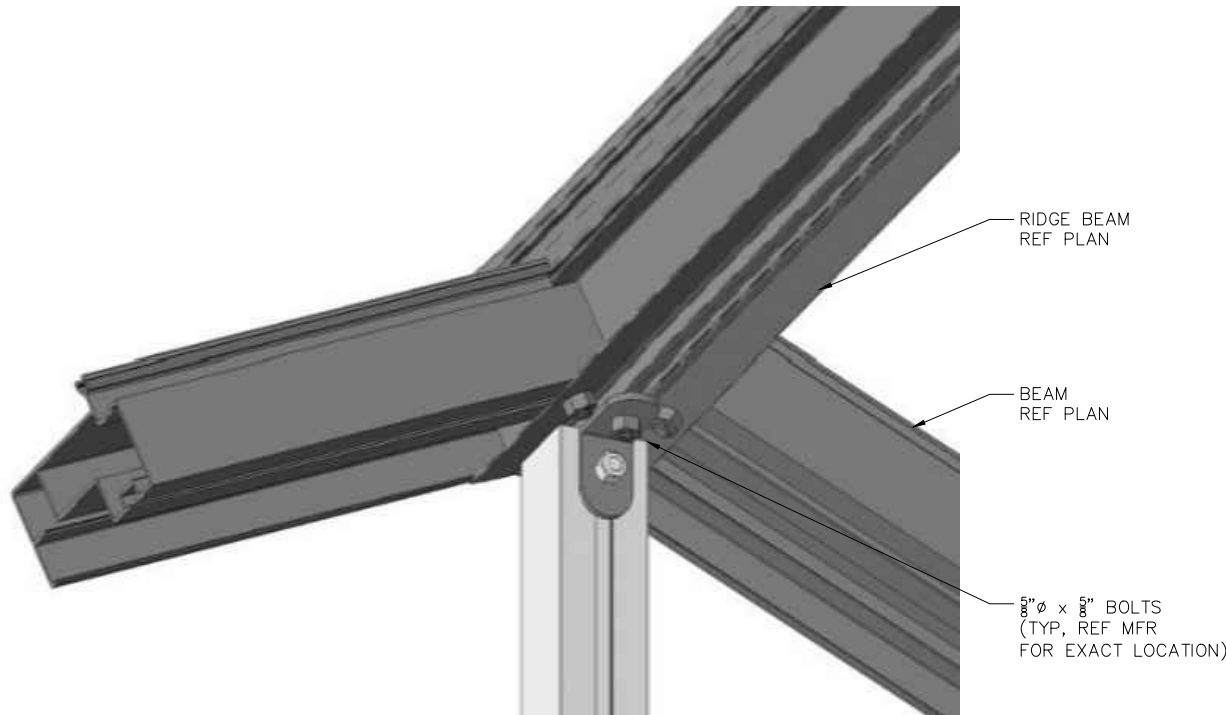




1 RAFTER CONNECTION



2 RAFTER CONNECTION



3 RIDGE BEAM CONNECTION



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