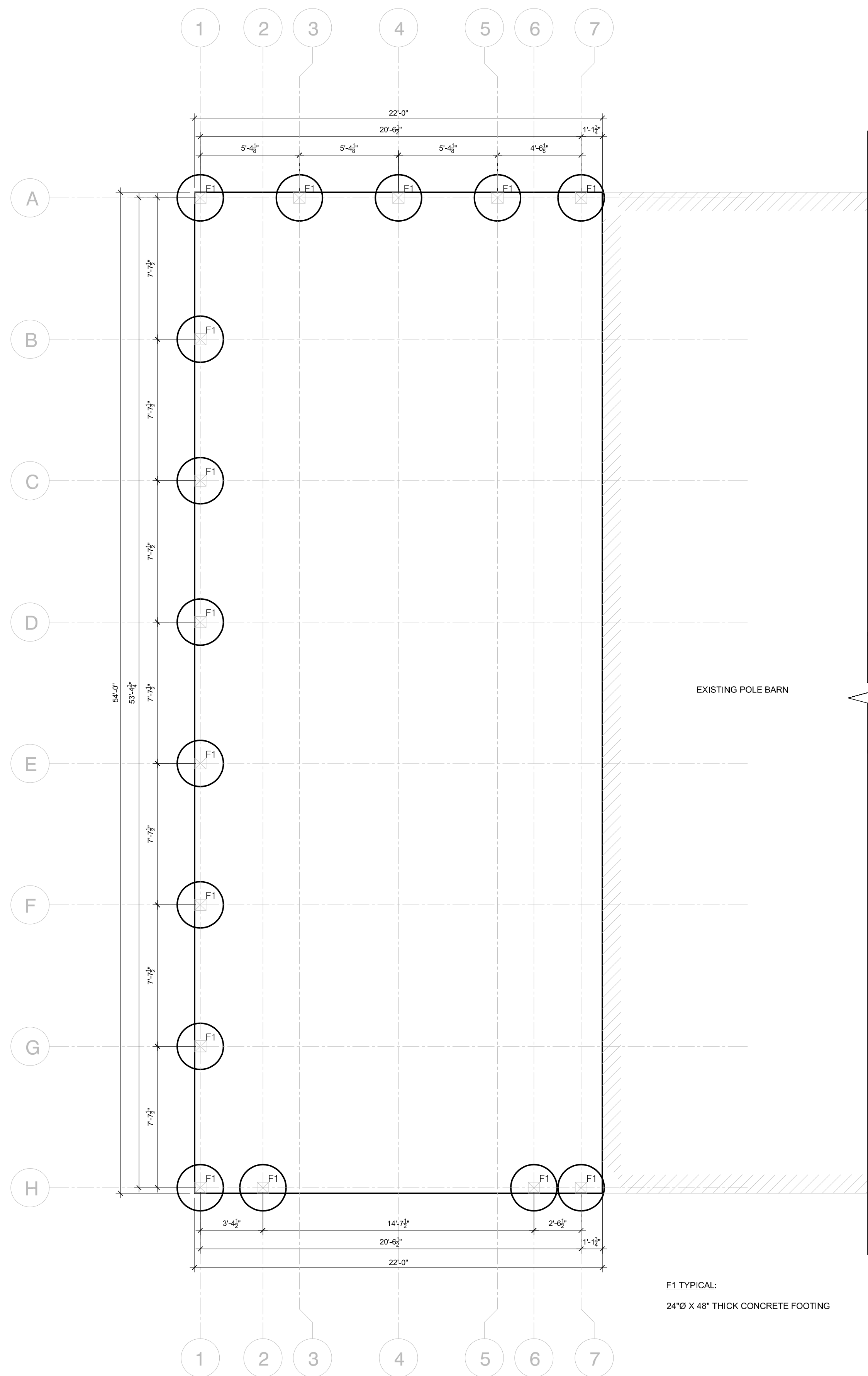


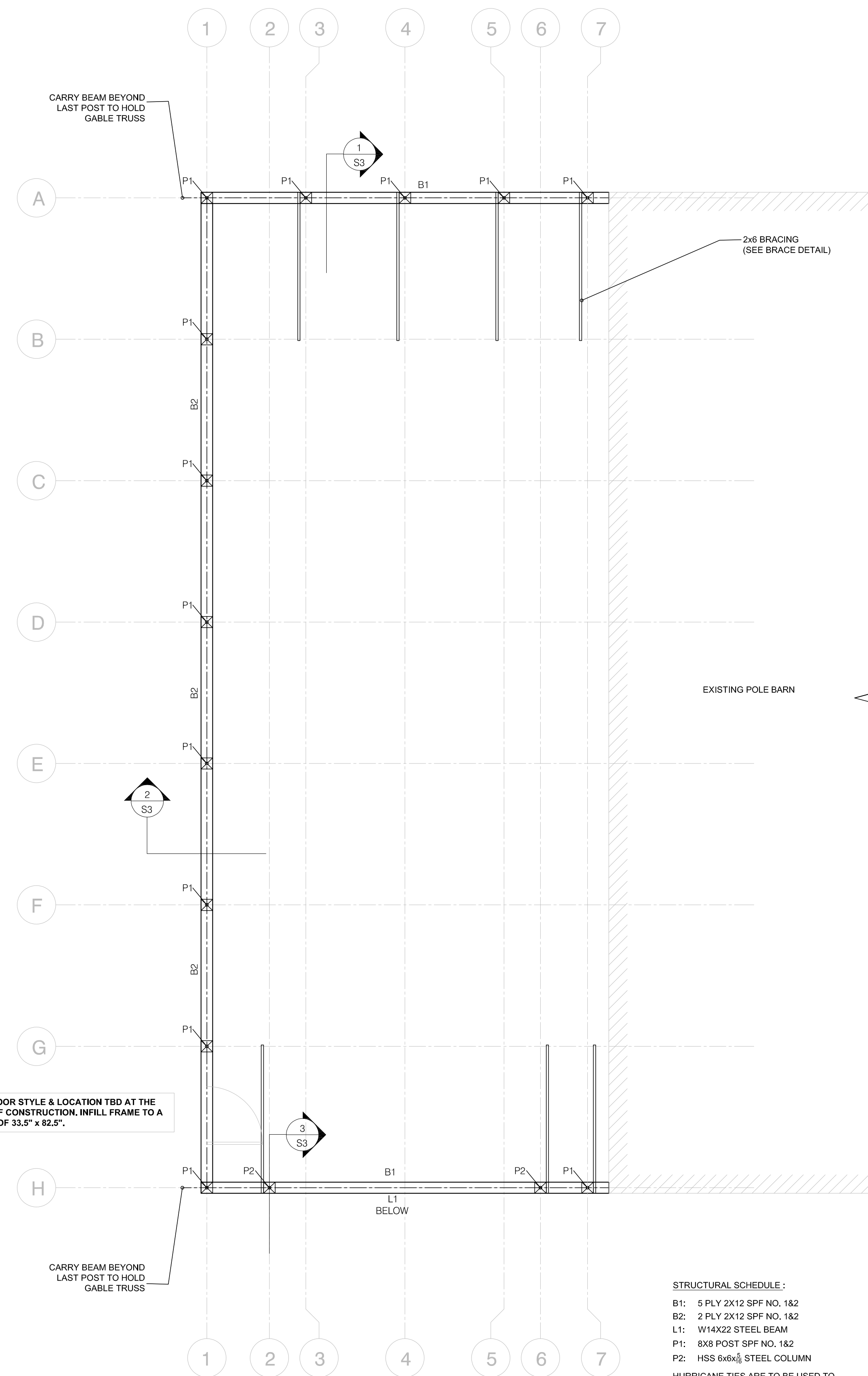


No	Revision	Date
1	Issued for Review & Approval	Oct. 05, 2021
2	Issued for Permit	Nov. 17, 2021
3	Revised for Permit	Nov. 23, 2023
4	Revised for Permit	Dec. 19, 2023



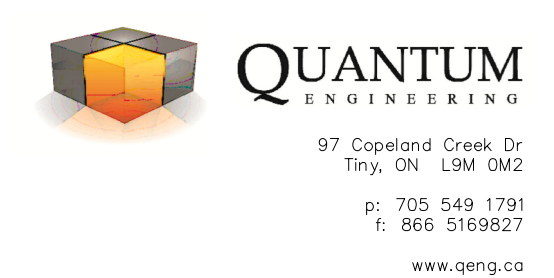
F1 TYPICAL:
24"Ø X 48" THICK CONCRETE FOOTING

1 FOUNDATION PIER LAYOUT
SCALE: 1/4" = 1'-0"



STRUCTURAL SCHEDULE:
 B1: 5 PLY 2X12 SPF NO. 1&2
 B2: 2 PLY 2X12 SPF NO. 1&2
 L1: W14X22 STEEL BEAM
 P1: 8X8 POST SPF NO. 1&2
 P2: HSS 6x6x3/8 STEEL COLUMN
 HURRICANE TIES ARE TO BE USED TO CONNECT TRUSSES TO BEAM

2 FLOOR PLAN
SCALE: 1/4" = 1'-0"



Project
PROPOSED POLE BARN ADDITION

Location
45 Robillard Dr., Penetanguishene ON.

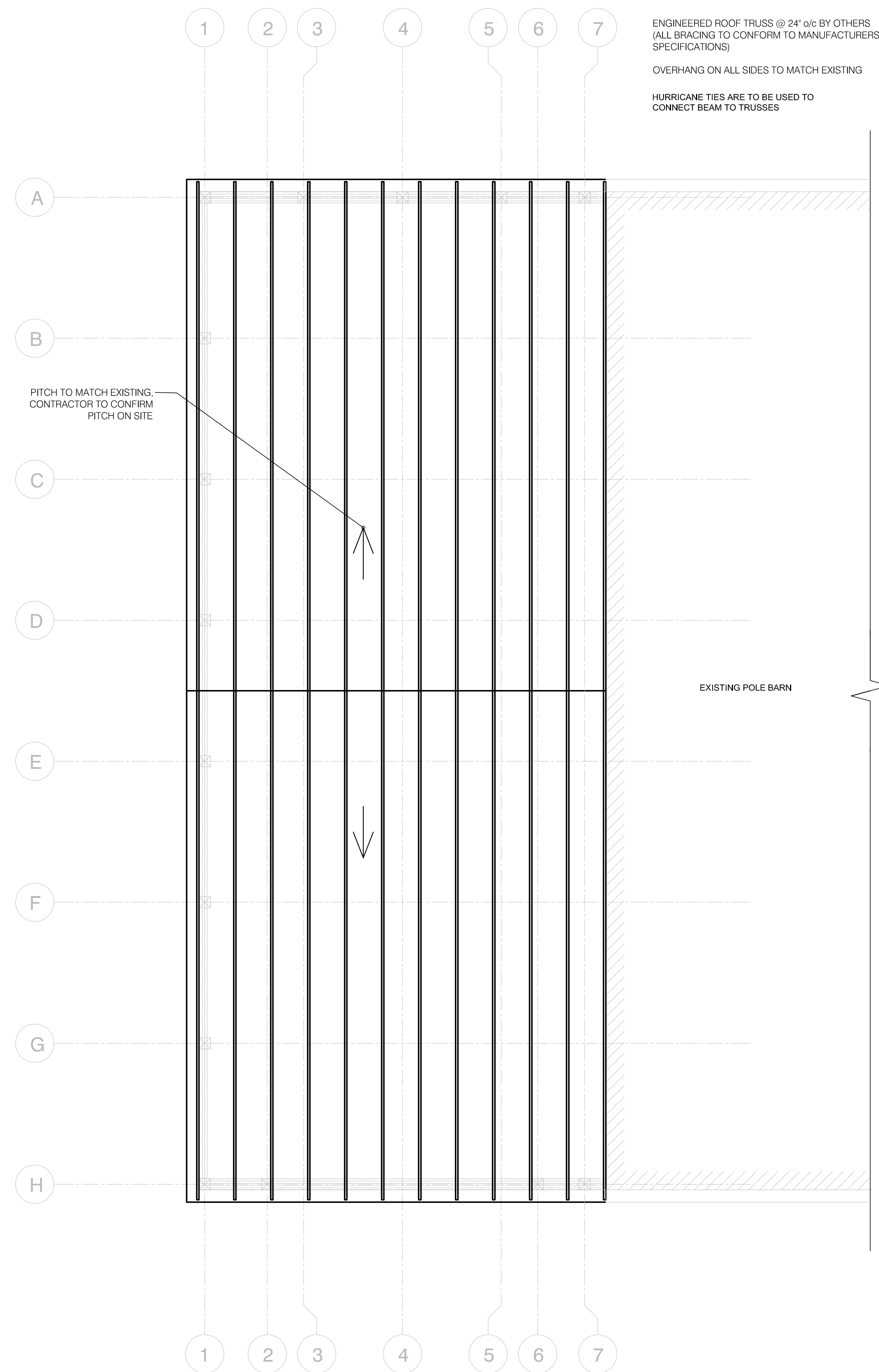
For
David Wright (Macon)

Drawing Title
Foundation Plan & Floor Plan

Date:	Oct 2021	Project No.	6356
Drawn By:	AB	Checked By:	DWL
Scale:	See Plot		S1



No	Revision	Date
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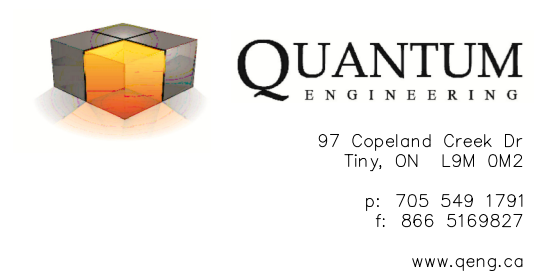
GENERAL NOTES & REQUIREMENTS:

- CONTRACTOR TO CHECK ALL DIMENSIONS, SPECIFICATIONS, ETC. ON SITE, AND SHALL BE RESPONSIBLE FOR REPORTING ANY DISCREPANCIES TO THE DESIGNER PRIOR TO CONSTRUCTION.
- THESE PLANS ARE TO REMAIN THE PROPERTY QUANTUM ENGINEERING AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF THESE PLANS IS STRICTLY FORBIDDEN WITHOUT QUANTUM'S WRITTEN PERMISSION. THESE PLANS MUST NOT BE USED IN ANY OTHER LOCATION WITHOUT THE WRITTEN APPROVAL OF QUANTUM ENGINEERING.
- OFFICIAL COPIES MUST BEAR AN ORIGINAL SIGNATURE AND SHOW THE ENGINEERS STAMP IN RED.
- THESE DRAWINGS ARE NOT TO BE SCALED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL SITE UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE STATED WITHIN THE DRAWINGS.
- DESIGN BASED ON CONCRETE STRENGTH AT 28 DAYS OF:
 - CONCRETE FOR PIERS, POURED WALLS, FOOTINGS & NON STRUCTURAL INTERIOR PADS - 3625psi (25MPa)
 - STRUCTURAL SLAB ON GRADE OR WALL - 4650psi (32 MPa)
- 5-8% AIR ENTRAINMENT, PROTECT ALL CONCRETE DURING CURING FROM RAIN & FREEZING CONDITIONS.
- REINFORCEMENT BARS TO BE HI-BOND AND HAVE A MINIMUM YIELD STRENGTH OF 400MPa. THE BARS MUST BE HELD SECURELY FOR THE PLACEMENT OF CONCRETE, AND ADDITIONAL SUPPORT BARS OR STIRRUPS ARE TO BE USED AS REQUIRED.
- CONTINUOUS REINFORCING BARS SHALL BE LAPPED / SPLICED AT CORNERS IN CONFORMANCE WITH THE REQUIREMENTS OF THE RELEVANT CSA STANDARDS AND THE TYPICAL DETAILS OF THIS DESIGN, UNLESS OTHERWISE NOTED ON THE DRAWINGS (40 times the bar diameter minimum).
- MINIMUM COVER FOR REINFORCING BARS UNLESS OTHERWISE NOTED SHALL BE 3".
- THESE DRAWINGS ARE STRUCTURAL ONLY. PLUMBING, ELECTRICAL AND ALL OTHER MECHANICAL DESIGNS TO BE COMPLETED BY OTHER. CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL MECHANICAL / PLUMBING / ELECTRICAL UTILITIES, SLOTS, PIPE SLEEVES, ANCHOR BOLTS, ETC. AS REQUIRED FOR OTHER TRADES, PRIOR TO THE PLACEMENT OF CONCRETE.
- CONCRETE WORK SHALL COMPLY WITH CSA-A23.1-14 / CSA-A23.2-14, CSA-A23.3-14 & CSA-A23.4-14
- STRUCTURAL STEEL WORK SHALL COMPLY WITH CSA S16.1-14
- ALL CONSTRUCTION SHALL CONFORM TO THE MOST RECENT ONTARIO BUILDING CODE & ALL OTHER APPLICABLE CODES & BYLAWS IN EFFECT AT THE PROJECT LOCATION.

NOTE TO EARTH WORKS / FOUNDATION INSTALLER(S):

- SOIL CONDITIONS UNDER THE FOOTINGS, SLAB ON GRADE AND / OR PADS ARE CRUCIAL AND SHOULD CONSIST OF A COMPACTED GRANULAR MATERIAL AS PER THE FOUNDATION SPECIFICATIONS WITHIN THIS PLAN OR ON UNDISTURBED SOIL THAT WILL ALLOW WATER TO DRAIN TO A DEPTH BELOW THE EXPECTED FROST LINE AND HAS AN ALLOWABLE SOIL BEARING CAPACITY OF AT LEAST 1500 psf.
- DUE TO LACK OF A SPECIFIC GEOLOGICAL SURVEY, ASSUMPTIONS WERE MADE DURING THE DESIGN. QUANTUM ENGINEERING IS NOT RESPONSIBLE FOR DIFFERENTIAL SETTLEMENT, SLAB CRACKING, OR OTHER FUTURE DEFECTS RESULTING FROM UNREPORTED OR UNRESERVED SOIL CONDITIONS.
- ALL DIMENSIONS RELATING TO POINT LOADS, PIERS OR PADS ARE TO BE VERIFIED BY THE CONTRACTOR AND FOUNDATION INSTALLER ON SITE PRIOR TO THE PLACEMENT OF CONCRETE. CONTRACTOR TO CONFIRM OVERALL LENGTH AND WIDTH DIMENSIONS OF ALL FOUNDATION ELEMENTS ON SITE PRIOR TO ANY CONSTRUCTION. CONTRACTOR TO CONFIRM SLAB FINISH WITH OUR OFFICE PRIOR TO CONSTRUCTION.
- CONTROL JOINTS IN SLAB FLOOR SURFACE ARE TO BE SPACED EVENLY (10' x 10') OR AS INDICATED ON THE PLAN. CUT 1/4" DEEP, 6-18 HOURS AFTER CONCRETE PLACEMENT.
- ALL ORGANIC MATERIALS MUST BE REMOVED FROM THE FOUNDATION EXCAVATION PRIOR TO CONSTRUCTION AND / OR FOUNDATION BACKFILLING.
- EXCAVATION MUST BE COMPLETELY VOID OF WATER BEFORE & DURING CONCRETE PLACEMENT. QUANTUM ENGINEERING MUST BE CONTACTED FOR INSPECTION IF A DRY EXCAVATION CANNOT BE ACHIEVED. ALL FOOTINGS AND / OR RIGID INSULATION SHALL BE FOUNDED ON NATIVE, UNDISTURBED SOIL OR A MAXIMUM 8" FULLY COMPACTED "A" GRAVEL OR 3/4" CRUSHED STONE, FOR LEVELING PURPOSES ONLY.

IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION, OUR OFFICE MUST BE CONTACTED FOR ANY STEEL, CONCRETE, FORMING OR FRAMING INSPECTIONS MINIMUM 2 DAYS IN ADVANCE OF THE PLACEMENT OF CONCRETE OR COVERING OF STRUCTURAL ELEMENTS



1 ROOF PLAN
SCALE: 1/4" = 1'-0"

Project
PROPOSED POLE BARN ADDITION

Location
45 Robillard Dr., Penetanguishene ON.

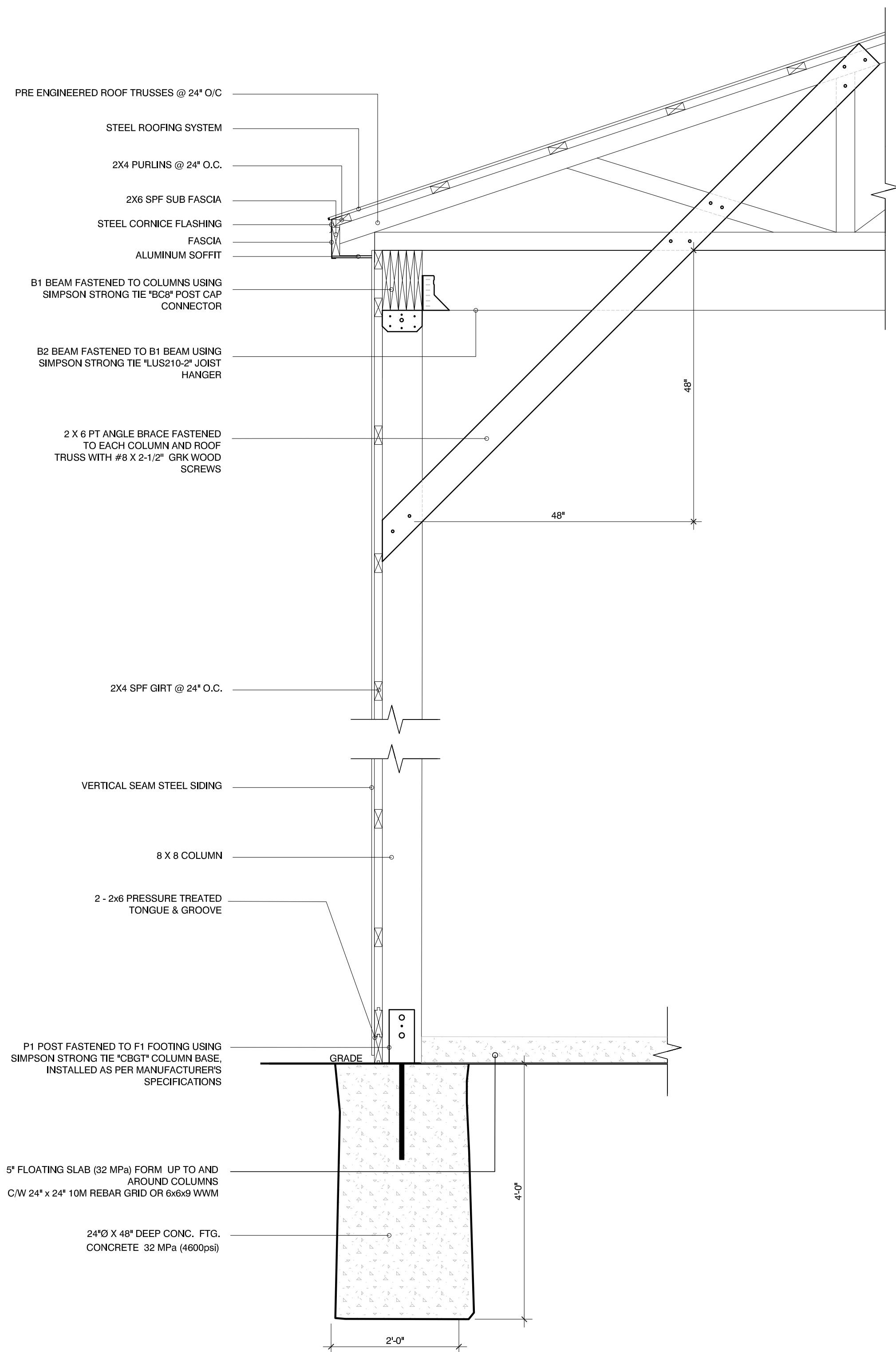
For
David Wright (Macon)

Drawing Title
Roof Plan & Notes

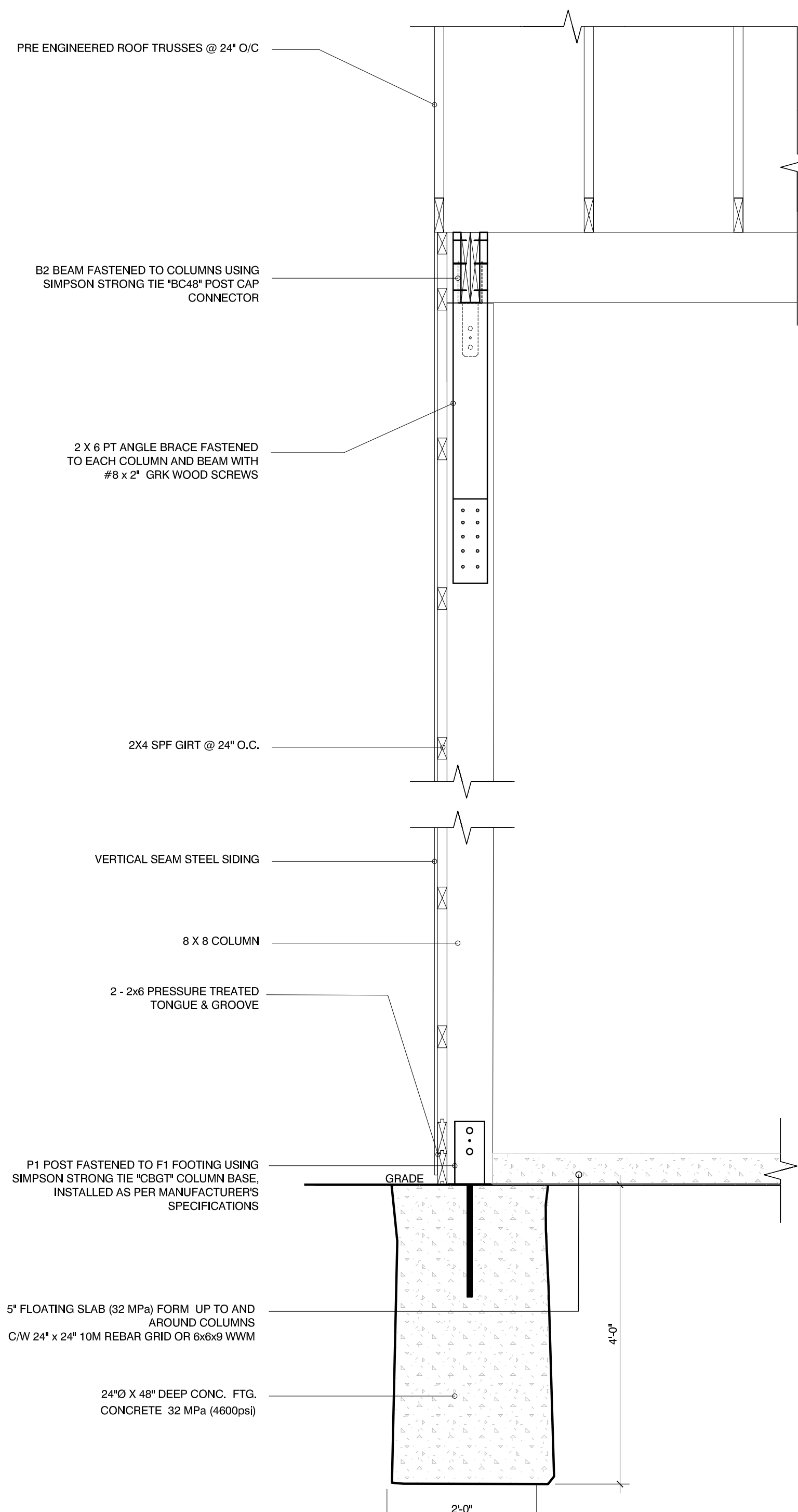
Date:	Project No.
Oct 2021	6356
Drawn By: AB	Checked By: DWL
Scale: See Plot	S2



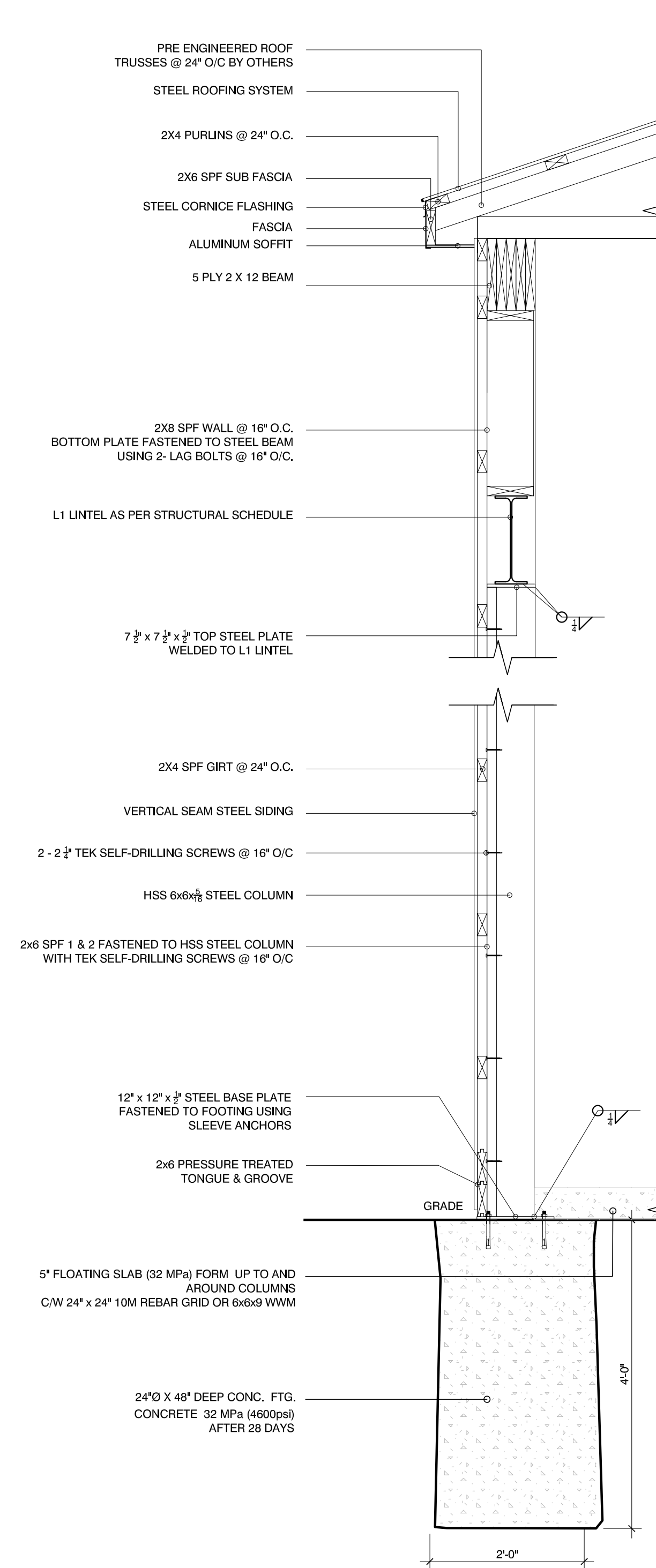
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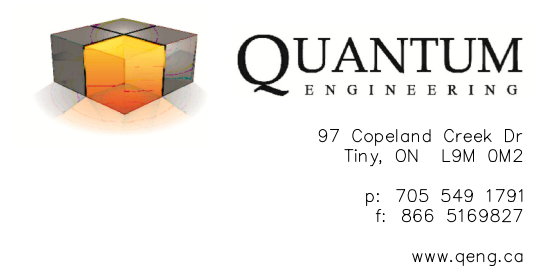
1 B2 BEAM SECTION (TYPICAL)
SCALE: 3/4" = 1'-0"



2 B1 BEAM SECTION (TYPICAL)
SCALE: 3/4" = 1'-0"



3 L1 LINTEL & C2 COLUMN SECTION (TYPICAL)
SCALE: 3/4" = 1'-0"



Project
PROPOSED POLE BARN ADDITION

Location
45 Robillard Dr., Penetanguishene ON.

For
David Wright (Macon)

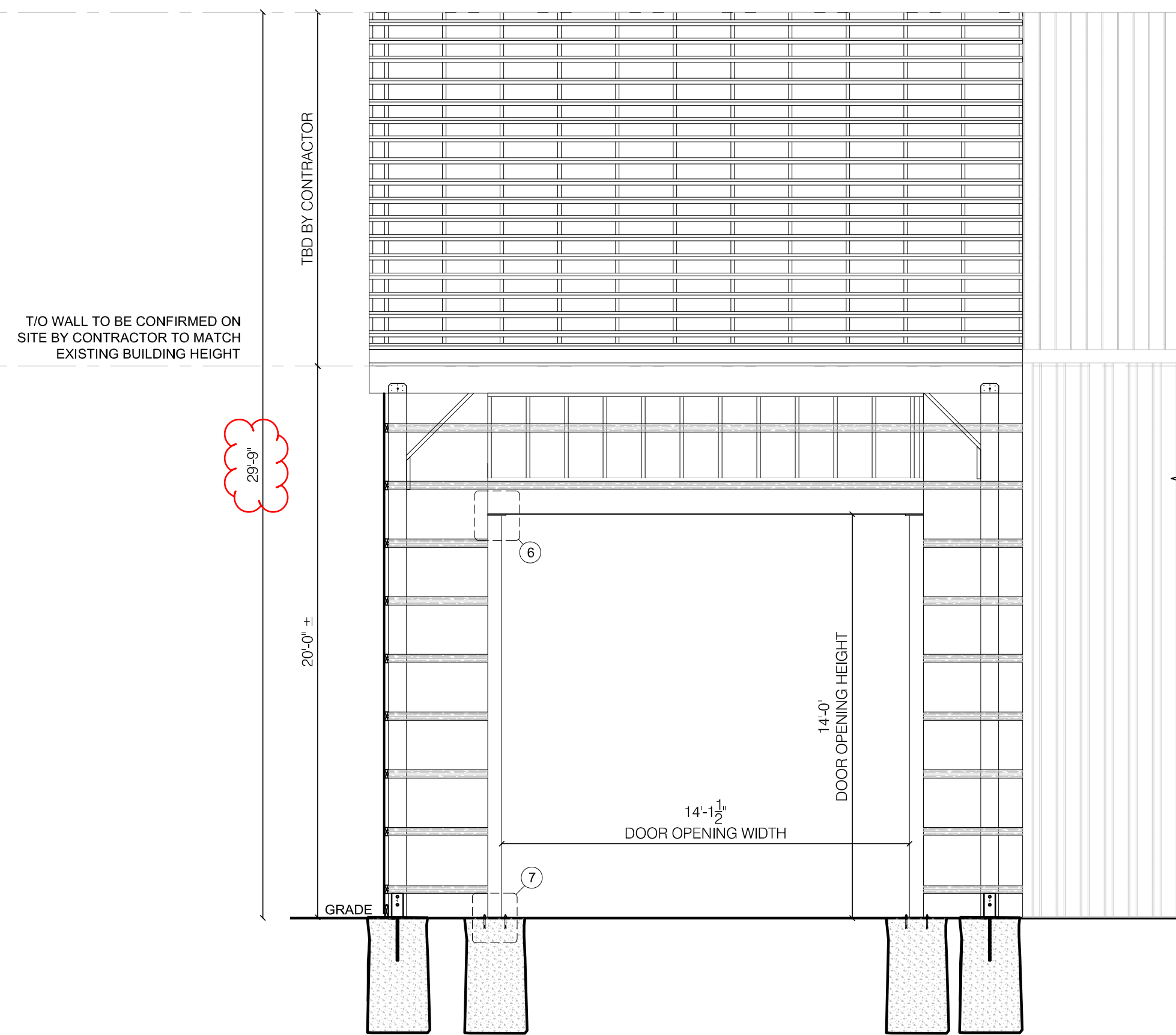
Drawing Title

Sections

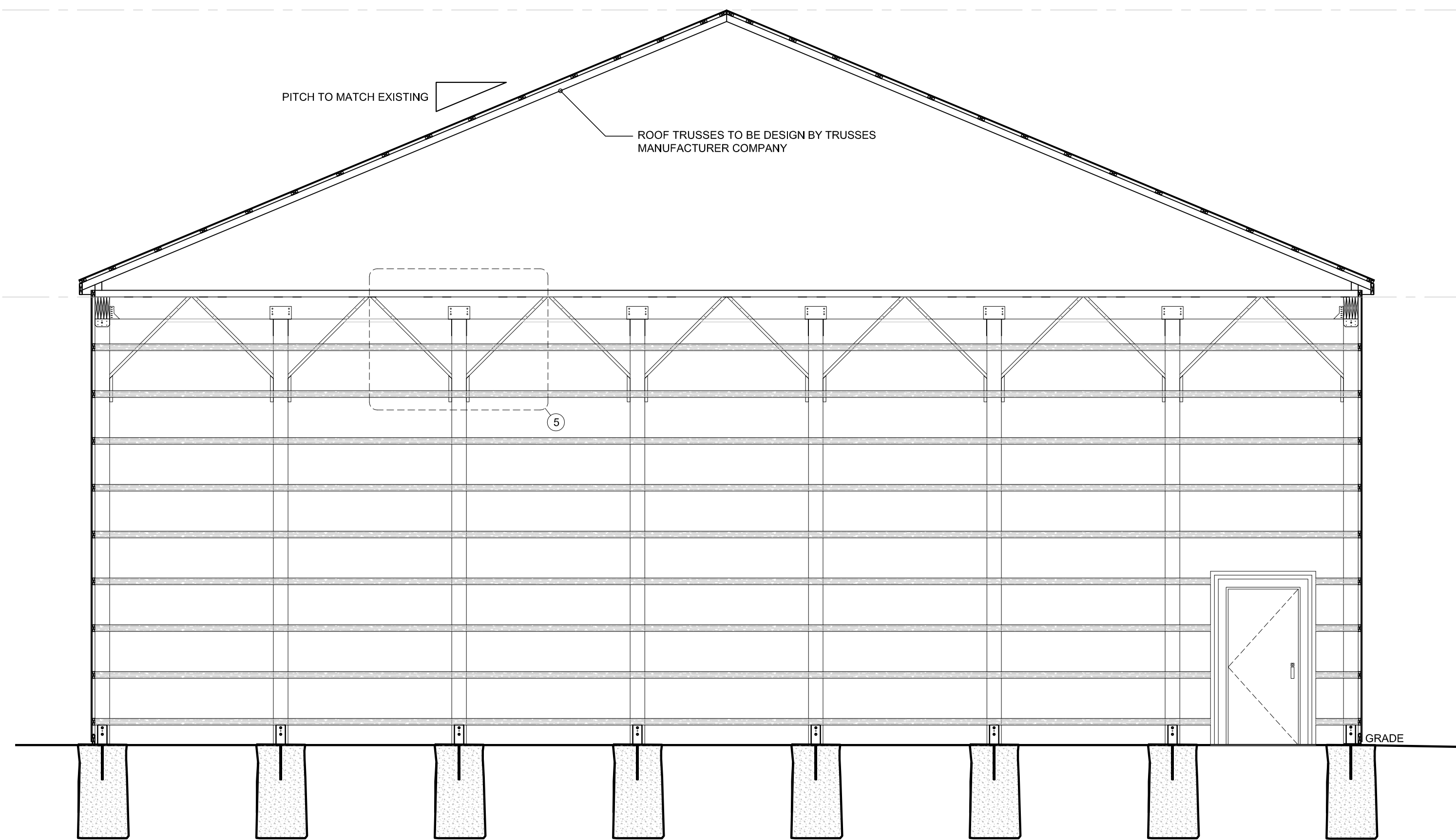
Date:	Project No.
Oct 2021	
Drawn By: AB	Checked By: DWL
Scale: See Plot	6356
	S3



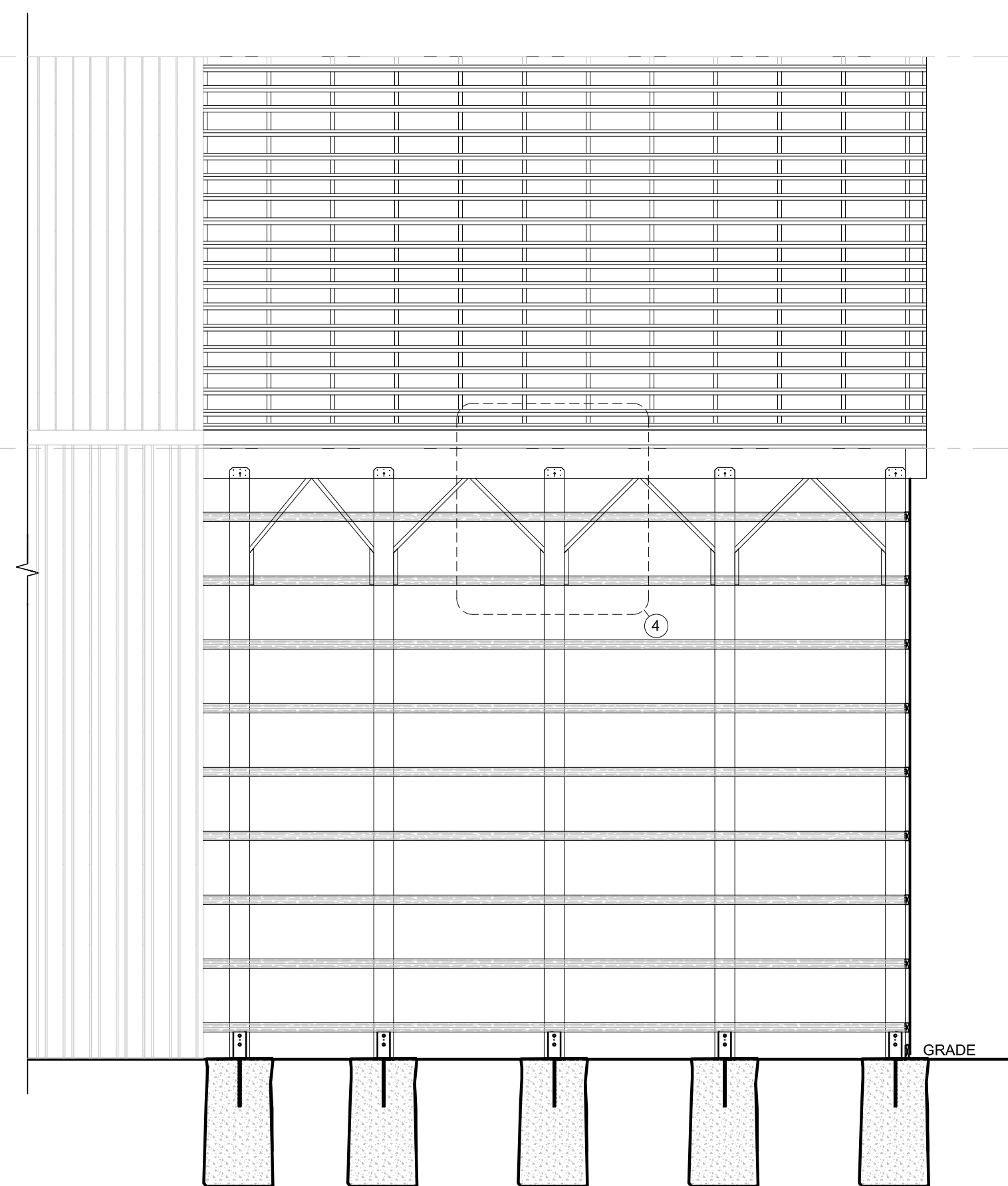
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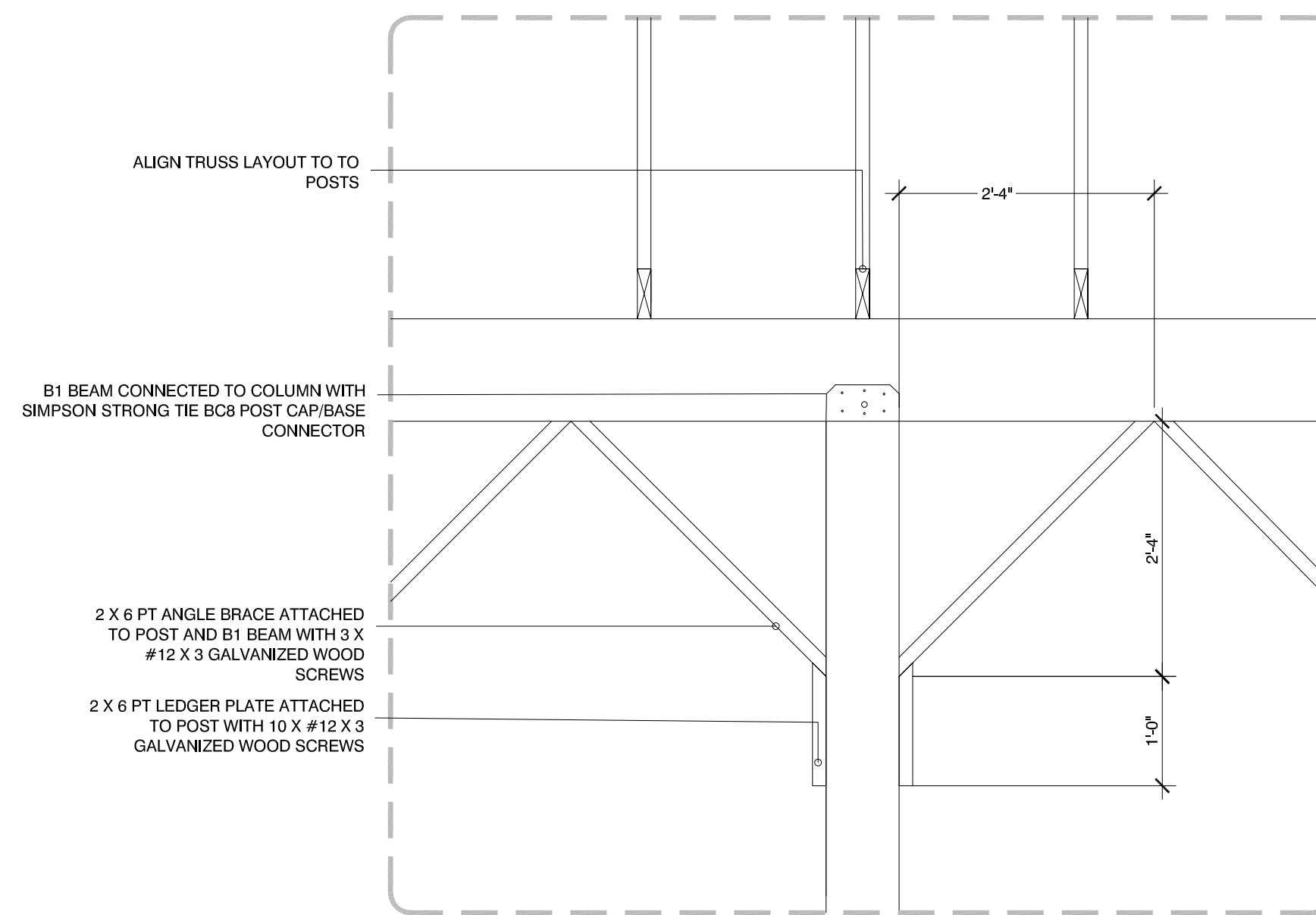
1 FRONT ELEVATION
SCALE: 1/4" = 1'-0"



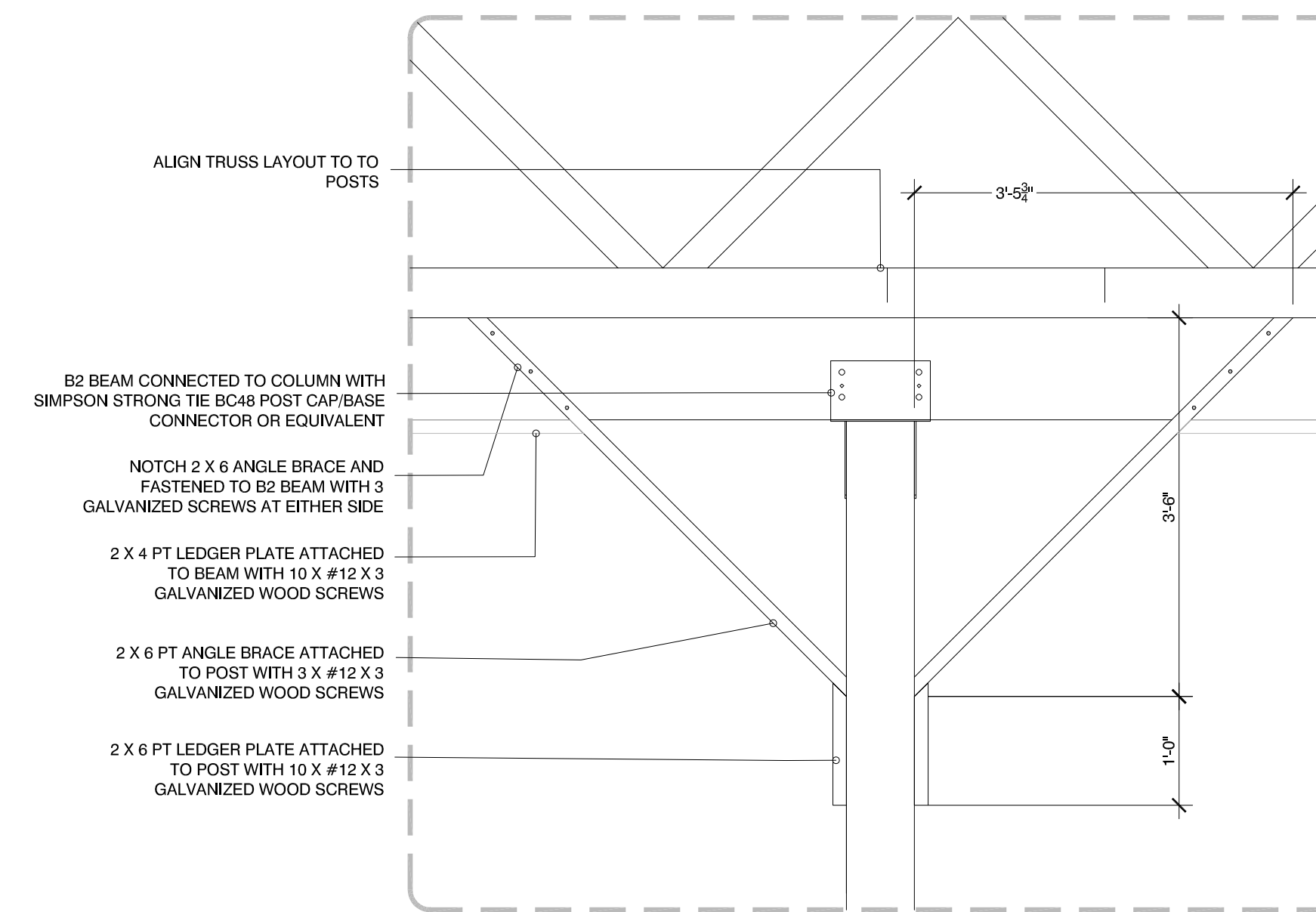
2 SIDE ELEVATION
SCALE: 1/4" = 1'-0"



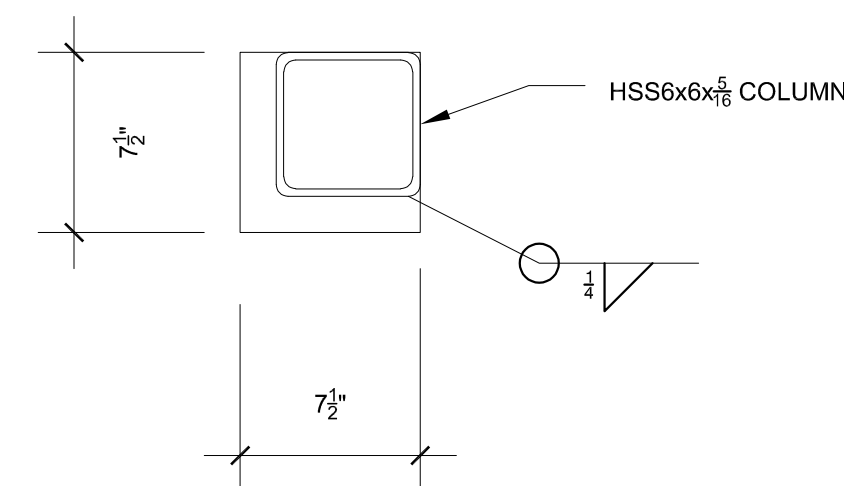
3 REAR ELEVATION
SCALE: 1/4" = 1'-0"



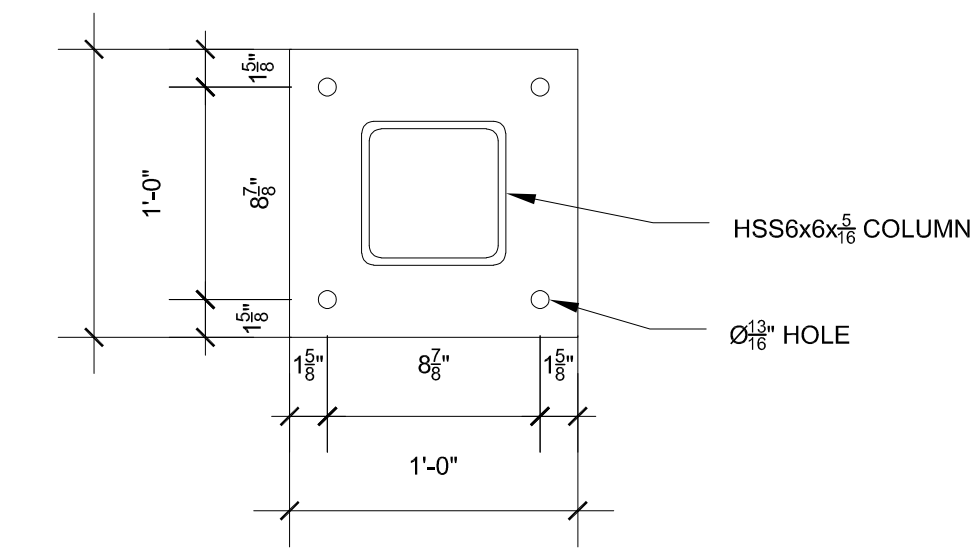
4 B1 BEAM CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



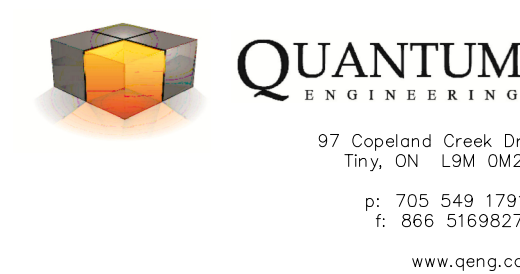
5 B2 BEAM CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



6 TOP PLATE DETAIL
SCALE: 1 1/2" = 1'-0"



7 BASE PLATE DETAIL
SCALE: 1 1/2" = 1'-0"



Project		PROPOSED POLE BARN ADDITION	
Location		45 Robllard Dr., Penetanguishene ON.	
For		David Wright (Maacon)	
Drawing Title		Elevations & Sections	
Date:	Oct 2021	Project No.	6356
Drawn By:	AB	Checked By:	DWL
Scale:	See Plot		S4