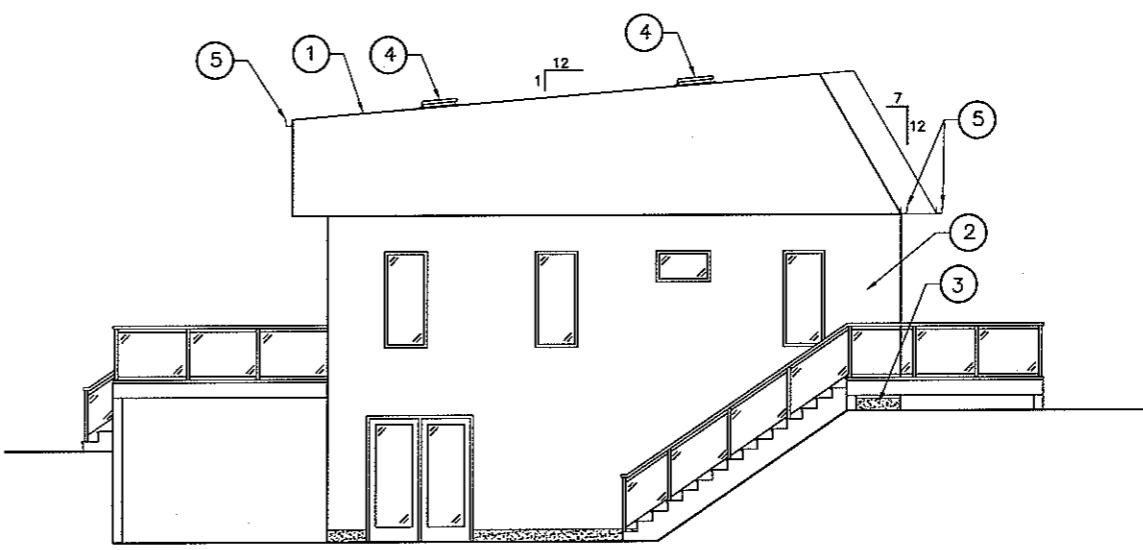
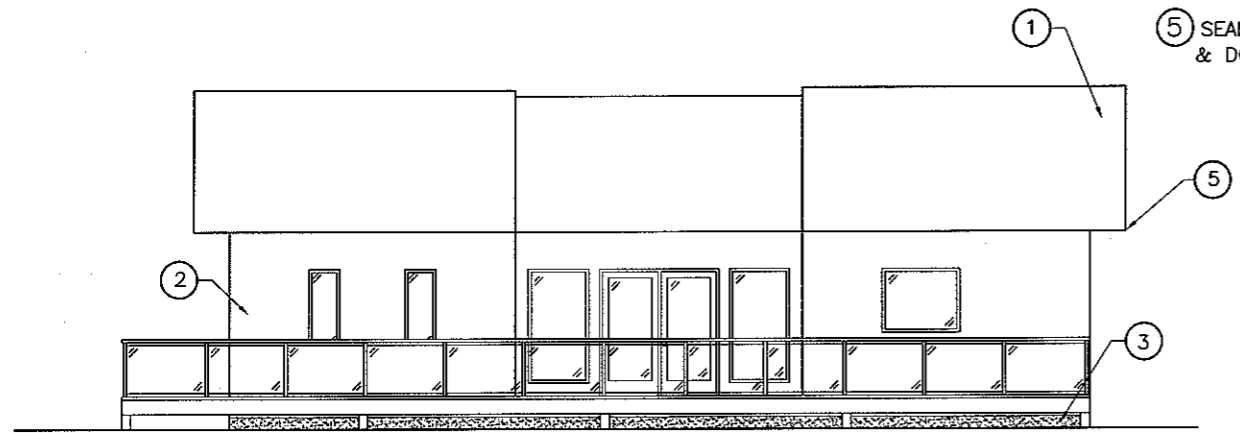


1 FRONT ELEVATION  
3/32"=1'-0"

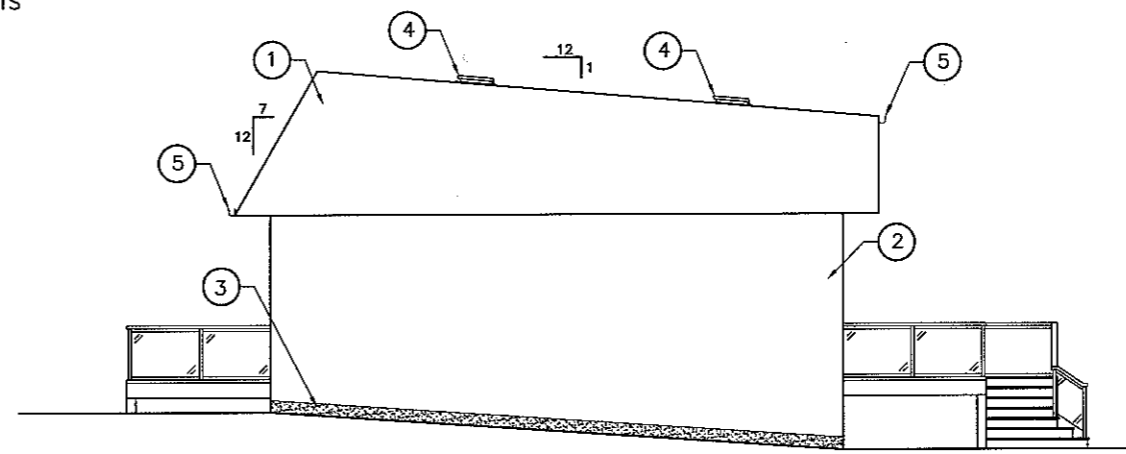


2 RIGHT ELEVATION  
3/32"=1'-0"

- LEGEND**
- ① 29 Ga. METAL CLADDING, COLOUR BY OWNER
  - ② HARDIPANEL SIDING, COLOUR BY OWNER
  - ③ PARGING
  - ④ ROOF VENT
  - ⑤ SEAMLESS EAVESTROUGH & DOWNSPOUTS



3 BACK ELEVATION  
3/32"=1'-0"

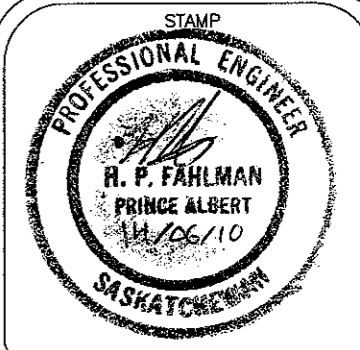


4 LEFT ELEVATION  
3/32"=1'-0"

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LOCATION:	NEAR LANGHAM, SK
PROJECT:	VERECO NETZERO HOUSE
DRAWN BY:	JMV
DRAWING NO.:	11476
JOB NO.:	2K10-99
DATE:	JUNE 14/10
FOR:	RONN LEPAGE

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 PRINCE ALBERT, SK  
 S6V 3X3  
 PHONE: 764-8623 FAX: 922-1840

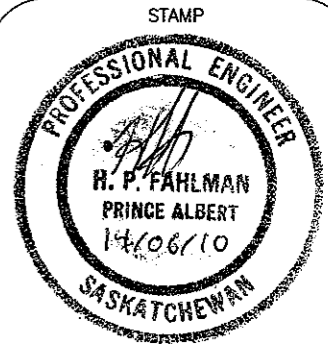
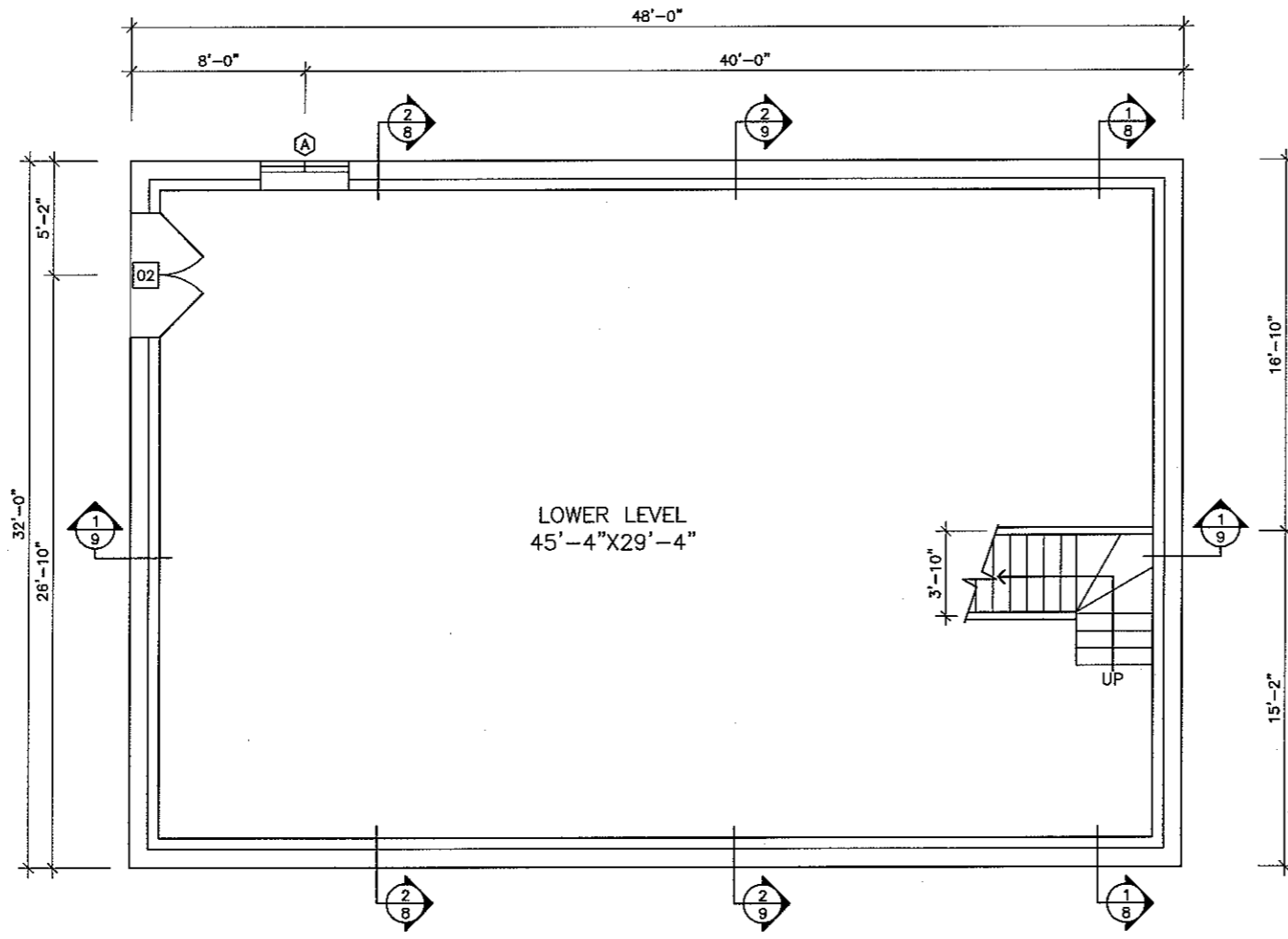




1  
—

LOWER LEVEL PLAN

1/8"=1'-0"



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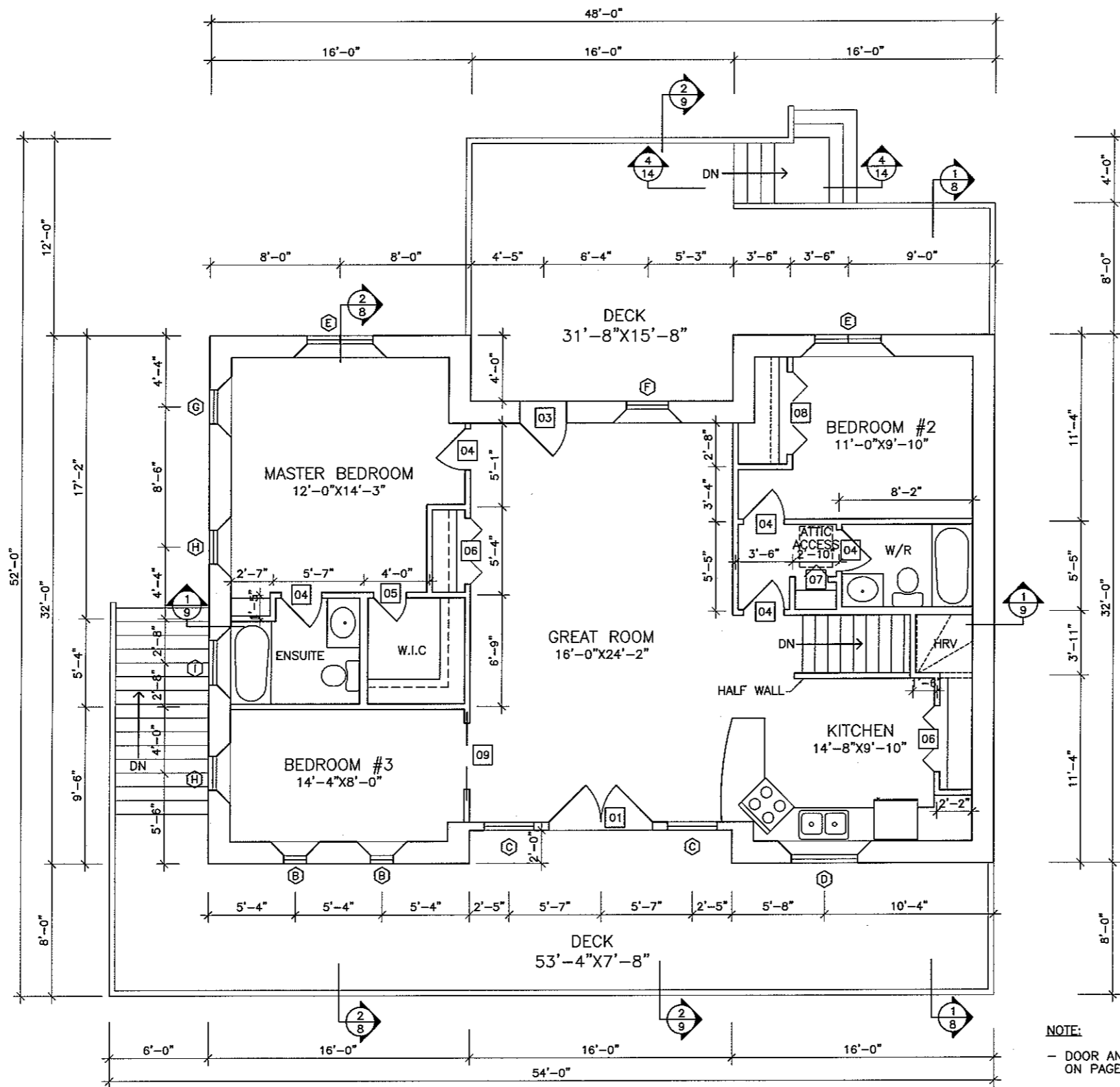
PHONE: 764-8623 FAX: 922-1840

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 DRAWN BY: JMV  
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-

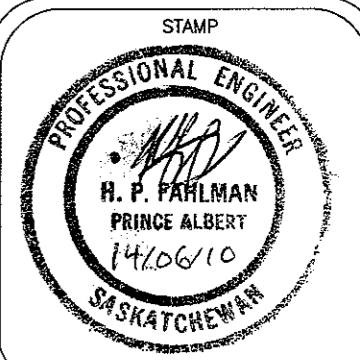
MAIN FLOOR PLAN  
1/8"=1'-0"



NOTE:  
- DOOR AND WINDOW SCHEDULE  
ON PAGE 4

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	MID CON ENGINEERING LTD. CONSULTING ENGINEERS 70-17TH STREET WEST PRINCE ALBERT, SK S6V 3X3 PHONE: 764-8623 FAX: 922-1840	LOCATION: NEAR LANGHAM, SK PROJECT: VERECO NETZERO HOUSE	DRAWN BY: JMV DRAWING NO.: 11476 JOB NO.: 2K10-99 DATE: JUNE 14/10
	FOR:	FOR:	FOR:

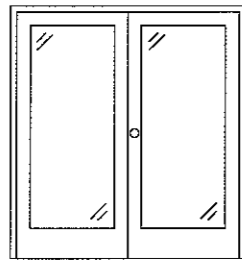


3  
14

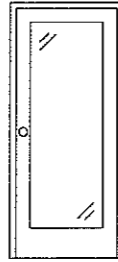
## DOOR AND HARDWARE SCHEDULE

DOORS				NOTES	#REQ'D
NO.	W	H	TYPE		
1	75"	82"	1		1
2	67"	82"	1		1
3	34"	82"	2		1
4	30"	84"	3		5
5	24"	84"	3		1
6	2-24"	80"	4		2
7	24"	80"	4		1
8	2-30"	80"	4		1
9	2-24"	84"	5		1
TOTAL					14

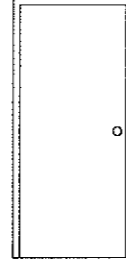
### DOOR TYPES



TYPE 1  
CWD PREMIER GARDEN  
DOOR C/W LEFT VENT



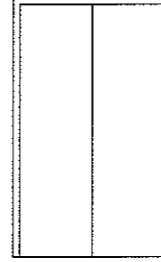
TYPE 2  
CWD PREMIER  
ENTRANCE DOOR



TYPE 3



TYPE 4  
BI-FOLD



TYPE 5  
POCKET DOOR

## WINDOW SCHEDULE

ITEM	QTY	ROUGH OPENING WxH	DESCRIPTION
Ⓐ	1	48 1/4"x40 3/8"	CASEMENT/FIXED
Ⓑ	2	16 3/4"x48 1/4"	FIXED
Ⓒ	2	36 3/8"x71 7/8"	FIXED
Ⓓ	1	48 1/4"x36 3/8"	AWNING
Ⓔ	2	48 1/4"x40 3/8"	CASEMENT/FIXED
Ⓕ	1	30 1/2"x60"	FIXED
Ⓖ	1	24 5/8"x60"	FIXED
Ⓗ	2	24 5/8"x60"	CASEMENT
Ⓘ	1	32 1/2"x16 3/4"	FIXED

### NOTES:

- ALL DOOR SIZES ARE TO BE CONFIRMED ON SITE
- ALL MEASUREMENTS ARE IN INCHES
- MANUFACTURERS AS LISTED OR EQUAL
- ALL MATERIALS NOTED AS FIRE RATED SHALL BE ULC LISTED AND LABELLED
- ALL TYPE X DRYWALL TO BE ULC RATED AND LABELLED
- ALL WINDOWS TO BE VINYL PVC, CWD OR APPROVED EQUAL
- ALL WINDOW TO BE TRIPLE PANE, ARGON FILLED, LOW E
- WINDOW LINTELS TO BE 2-2"x8" U.N.O.
- VIEWING HOLE FOR SIDE DOOR
- INSTALL A 3/16" FOAM SILL GASKET UNDER ALL WALLS
- ALL BEDROOM WINDOWS TO HAVE A MINIMUM OPENING SIZE OF 3.77 SQ FT (0.35 SQ M) WITH NO DIMENSION LESS THAN 15 INCHES (0.38 M)

### GENERAL NOTES:

- ALL CONSTRUCTION TO CONFORM TO 2005 NATIONAL BUILDING CODE
- ALL LUMBER TO BE S-P-F #2 OR BTR.
- ALL POLYETHYLENE MATERIALS TO BE 51.34 CGSB APPROVED
- SOIL BEARING CAPACITY TO BE 1000 PSF (47 kPa MIN.)
- ALL DIMENSIONS TO BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION
- MECHANICAL LAYOUT AND DESIGN TO BE DONE BY CONTRACTOR
- ACTUAL ELECTRICAL LAYOUT TO BE DONE BY THE ELECTRICAL CONTRACTOR
- ALL LUMBER WITHIN 8" OF GRADE TO BE PRESSURE TREATED CONFORMING TO CSA 080.15
- DRAWINGS ARE NOT TO BE SCALED
- FLASHING TO BE INSTALLED OVER ALL WINDOWS, DOORS, AND AT ALL ROOF/WALL INTERSECTIONS
- ALL EXTERIOR DOORS TO HAVE DEAD BOLTS
- FRONT DOOR TO HAVE VIEWING HOLE
- MINIMUM BACKFILL TO BE 24" ABOVE TOP OF CONCRETE FOOTINGS
- MECHANICAL VENTILATION AND MAKE UP AIR REQUIREMENTS SHALL CONFORM TO 2005 NBC
- THE GAS STANDARDS BRANCH ALSO REQUIRE THE INSTALLATION OF A COMBUSTION AIR DUCT INSTALLED ADJACENT TO THE FURNACE.
- AT LEAST ONE WIRED IN SMOKE ALARM PER FLOOR LEVEL INCLUDING BASEMENTS IS REQUIRED AS PER NBC 2005
- NO OPEN SIDES PERMITTED ON STAIRS. A GUARD OR WALL MUST BE INSTALLED ON EACH SIDE OF THE STAIRS.

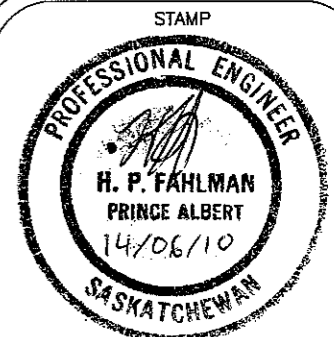
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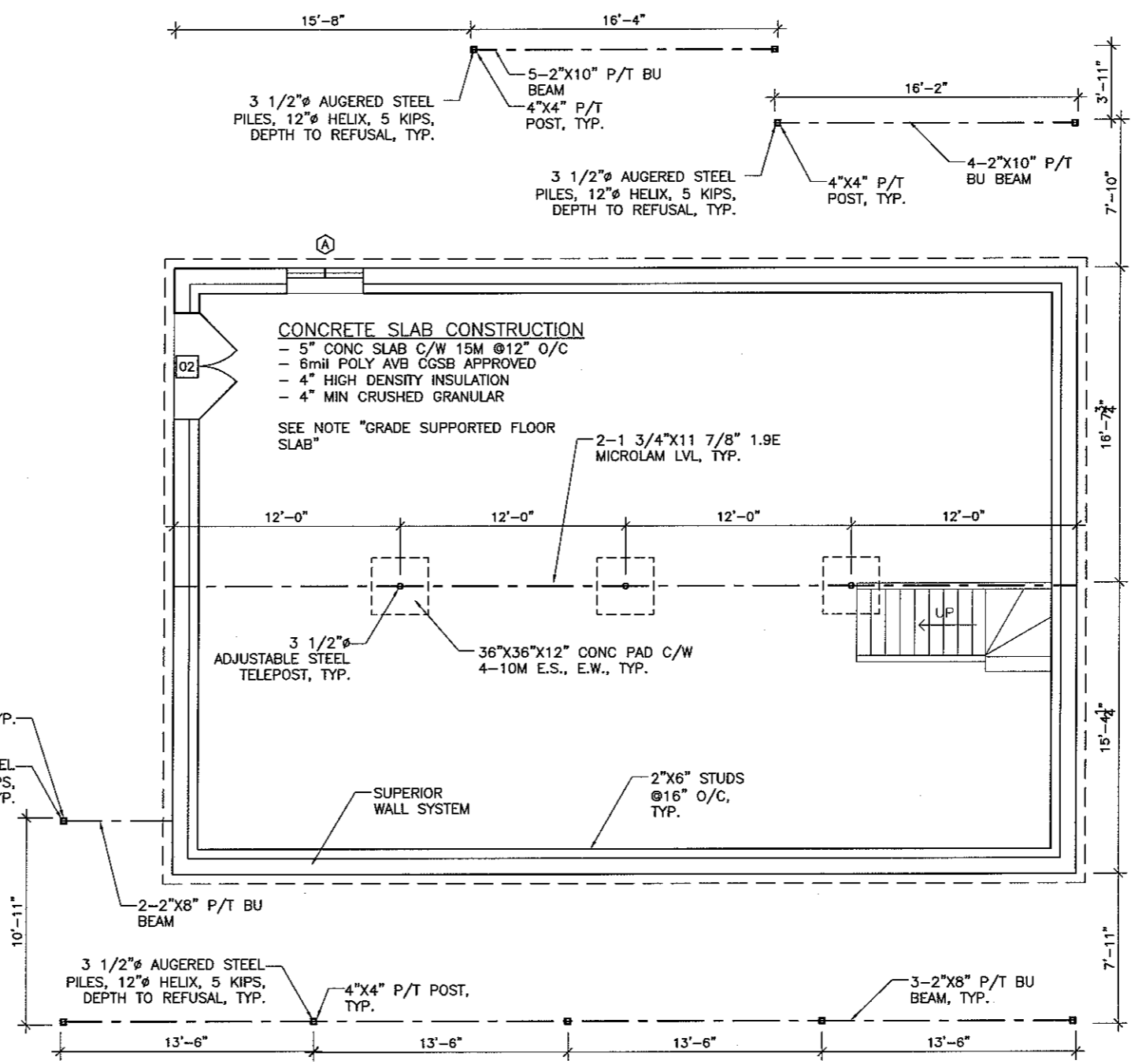


**GRADE SUPPORTED FLOOR SLAB:**

1. REMOVE ALL ORGANIC TOPSOIL AND OTHER DELETERIOUS MATERIAL FROM THE BUILDING SLAB AREA. DEPTHS OF TOPSOIL MAY VARY THROUGHOUT THE SITE.
2. FOLLOWING THE SUB CUTTING OF THE TOP ORGANIC TOPSOIL LAYER THE GRADE SHALL BE COMPACTED AND AND SOFT SOILS BE IDENTIFIED AND REMOVED PRIOR TO PLACEMENT OF THE NEW BACKFILL.
3. NEW ENGINEERED FILL SHALL BE COMPACTED TO 100% SPD IN MAXIMUM COMPACTED LIFTS OF 6". USE GRANULAR SOIL FOR THIS FILL.
4. BONDING SHOULD BE PROVIDED BETWEEN BACKFILL LIFTS IF THE PREVIOUS LIFT HAS BECOME DESICCATED.
5. FOR FINE GRAINED MATERIAL, THE PREVIOUS LIFT SHOULD BE SCARIFIED TO THE BASE OF DESICCATED LAYER, PROPERLY MOISTURE CONDITIONED AND RECOMPACTED AND BONDED THOROUGHLY TO THE SUCCEEDING LIFT.
6. FOR GRANULAR MATERIALS, THE SURFACE OF THE PREVIOUS LIFT SHALL BE SCARIFIED TO ABOUT 3" DEPTH FOLLOWED BY PROPER MOISTURE CONDITIONING AND RECOMPACTION.
7. BENEATH THE SLAB PROVIDE MINIMUM 6 INCHES OF GRAVEL FILL COMPACTED TO 100% OF STANDARD PROCTOR DENSITY.
8. CAST SLAB ON 6 MIL POLYETHYLENE VAPOUR BARRIER.
9. SAW CUT SLAB AS LOCATED ON DRAWINGS TO DEPTH OF INCHES WITHIN 24 HOURS OF CASTING. CAULK WITH JOINT SEALANT.
10. DO NOT CAST SLAB ON DESICCATED, FROZEN OR WET SOIL OR BASE.
11. DO NOT ALLOW SOIL BENEATH THE SLAB TO FREEZE AFTER CASTING SLABS.
12. ENSURE THE LANDSCAPING SLOPES AWAY FROM THE BUILDING. THE SITE IS TO BE GRADED TO DRAIN.

**TYPICAL FOUNDATION NOTES:**

- ALL CONCRETE TO BE 30 MPa TYPE-50 WITH 5% AIR ENTRAINMENT
- ALL REBAR TO BE NEW BILLET DEFORMED BARS GRADE 400 MPa
- ALL REBAR MUST BE FREE OF RUST, MUD, OIL OR OTHER MATERIAL WHICH WOULD REDUCE BOND
- ALL SPLICES MUST BE A MINIMUM OF 24" OVER LAP
- ALL REBAR 2" CLEAR ON ALL FACES
- CONCRETE TO BE CAST ON UNDISTURBED SOIL.



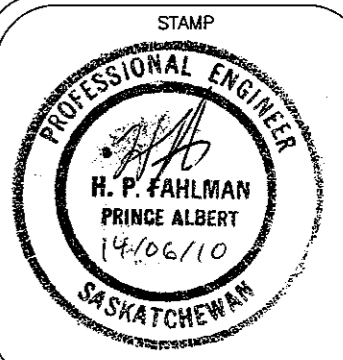
1 FOUNDATION PLAN  
3/16"=1'-0"

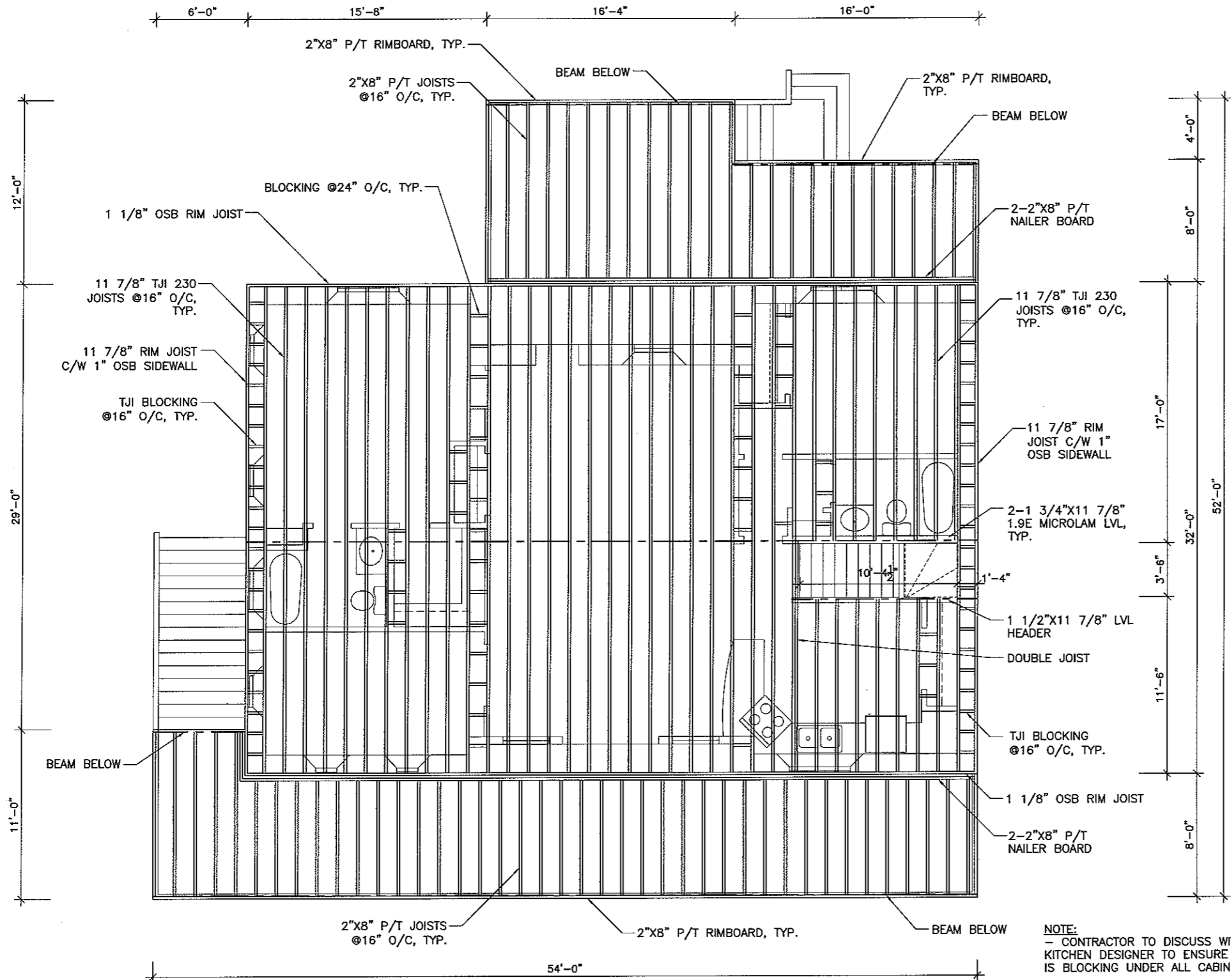
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 FOR: RONN LEPAGE

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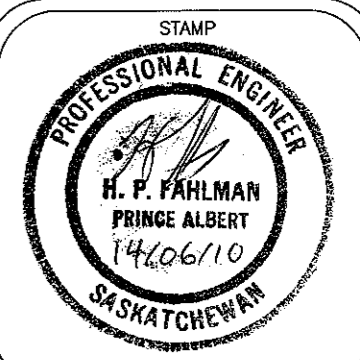
1 JOIST PLAN  
- 1/8"=1'-0"

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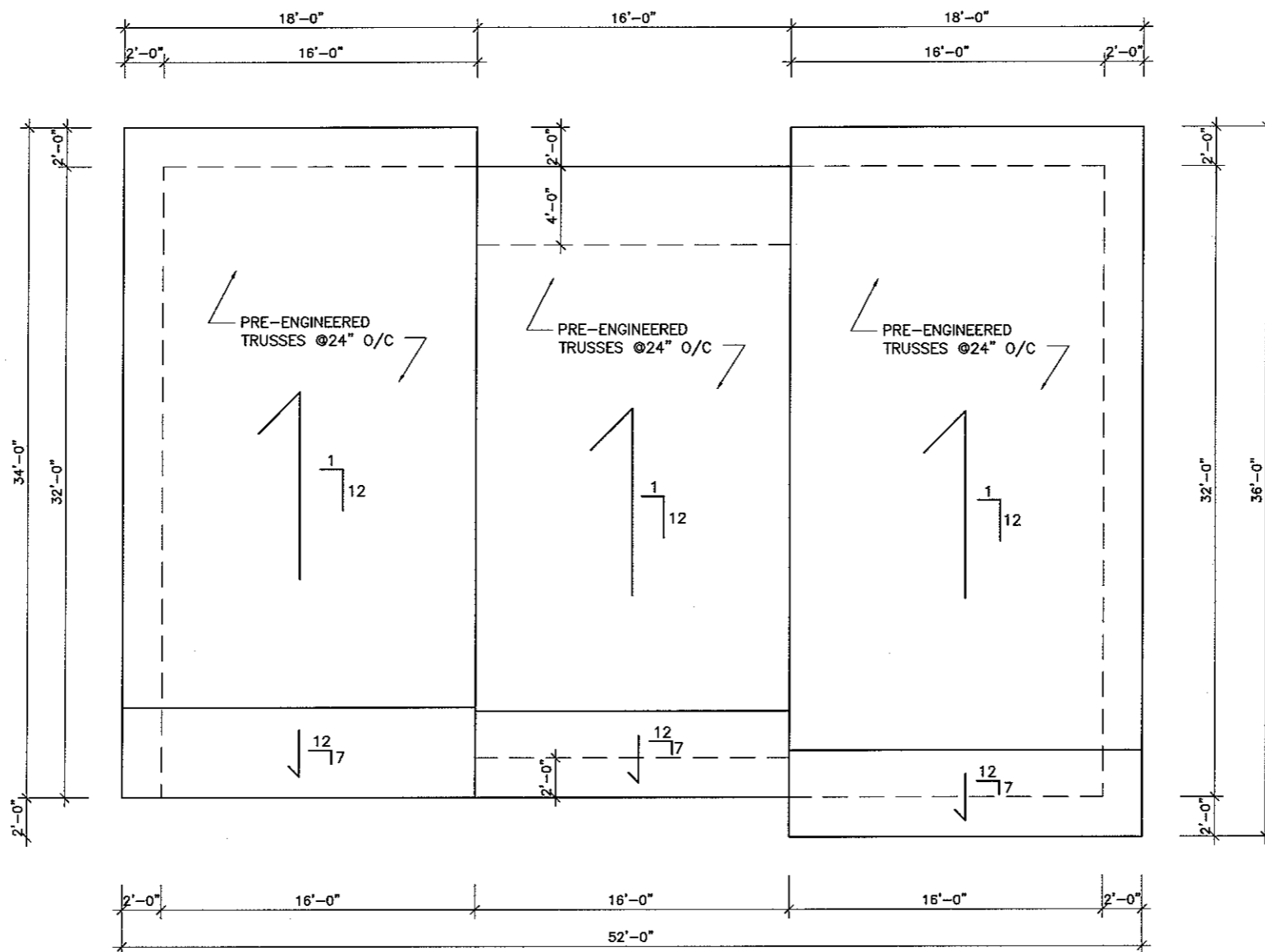
**PRE-ENGINEERED WOOD TRUSS NOTES:**

**REFERENCE STANDARDS**

- NATIONAL BUILDING CODE 2005: PART 4.
- CSA 080-M1983, "WOOD PRESERVATION".
- CAN/CSA-086.1-94 "ENGINEERING DESIGN ON WOOD ROOF (LIMIT STATES DESIGN)".
- CSA 0141-1970, "SOFT WOOD LUMBER".
- S307-M1980. "LOAD TEST PROCEDURE FOR WOOD ROOF TRUSSES FOR HOUSES AND SMALL BUILDINGS".
- NLGA-1980 "STANDARD GRADING RULES FOR CANADIAN LUMBER".

**DESIGN:**

- DESIGN ROOF TRUSSES, BRACING, BLOCKING, BRIDGING, FRAMED OPENINGS, CAMBERS, AND CONNECTIONS IN ACCORDANCE WITH CAN3-086 TO SAFELY CARRY ALL LOADS INDICATED ON DRAWINGS INCLUDING MECHANICAL AND OTHER EQUIPMENT NOT NOTED.
- LIMIT LIVE LOAD DEFLECTION  $T L/360$ .
- DESIGN FOR ALL DEFLECTIONS AND PROVIDE CAMBERS TO ALLOW FOR SATISFACTORY PERFORMANCE OF TRUSSES.
- HURRICANE ANCHORS REQUIRED



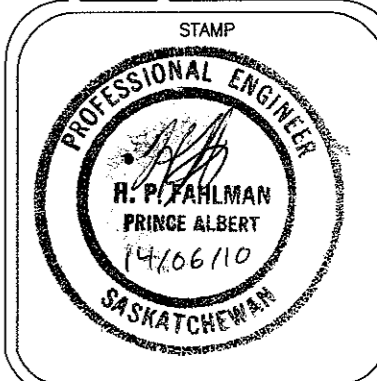
1 ROOF PLAN  
1/8" = 1'-0"

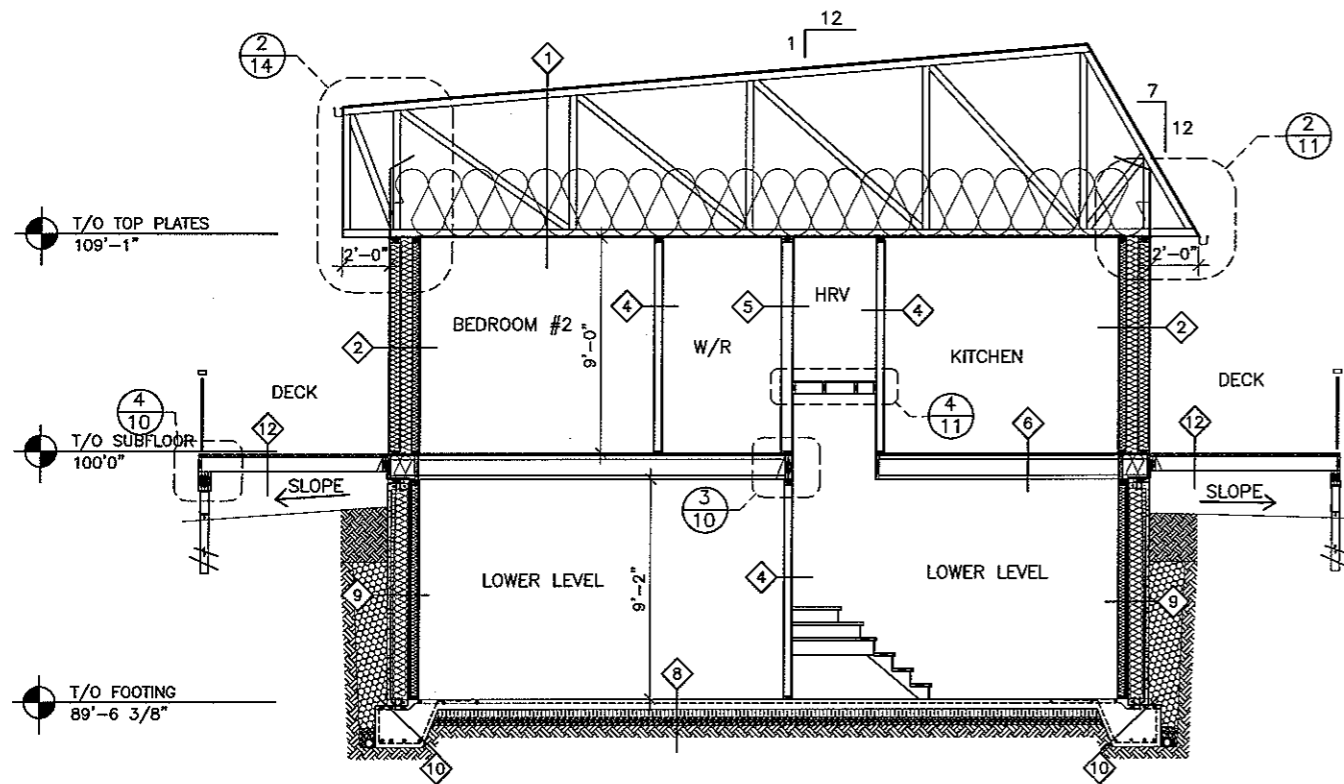
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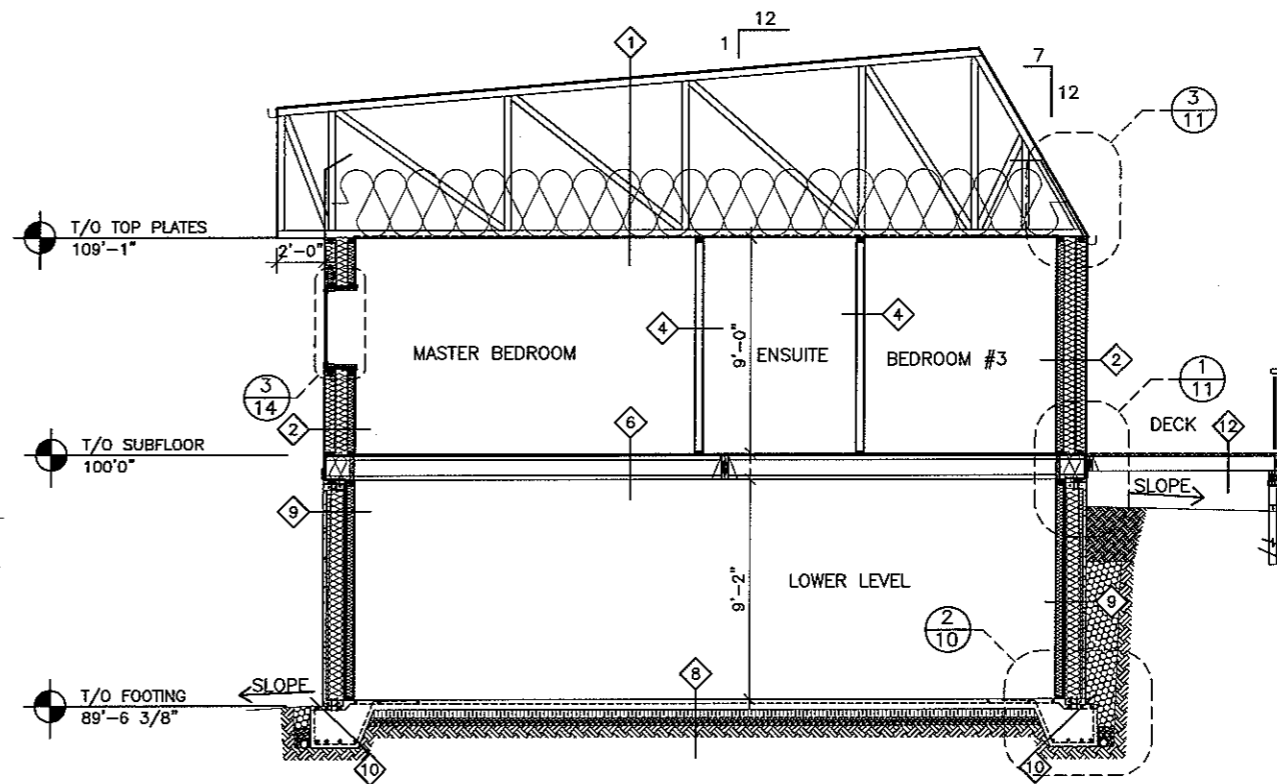
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1 SECTION  
1/8"=1'-0"



2 SECTION  
1/8"=1'-0"

- 1 ROOF CONSTRUCTION
- 29 Ga METAL CLADDING, COLOUR BY OWNER
  - BUILDING PAPER
  - ICE & WATER SHIELD 6'-0" UP FROM EDGE
  - 7/16" OSB SHEATHING C/W H-CLIPS
  - PRE-ENGINEERED TRUSSES @24" O/C
  - R100 CELLULOSE INSULATION
  - 6mil POLY AVB CGSB APPROVED
  - 1/2" C.B. DRYWALL BOARD

- 2 EXTERIOR WALL CONSTRUCTION #1
- HARDIE PANEL SIDING, COLOUR BY OWNER
  - TYPAR BUILDING WRAP
  - 3/8" OSB SHEATHING
  - 2"x6" STUDS @16" O/C
  - R20 CELLULOSE INSULATION
  - 6 1/8" AIRSPACE
  - R26 CELLULOSE INSULATION
  - 2"x4" STUDS @16" O/C
  - R24 CELLULOSE INSULATION
  - 6mil POLY AVB CGSB APPROVED
  - 1/2" DRYWALL

- 3 EXTERIOR WALL CONSTRUCTION #2
- HARDIE PANEL SIDING, COLOUR BY OWNER
  - TYPAR BUILDING WRAP
  - 3/8" OSB SHEATHING
  - 2"x6" STUDS @16" O/C
  - R20 CELLULOSE INSULATION
  - 6mil POLY AVB CGSB APPROVED
  - 1/2" DRYWALL

- 4 INTERIOR WALL CONSTRUCTION #1
- 1/2" DRYWALL
  - 2"x4" STUDS @16" O/C
  - 1/2" DRYWALL
- NOTE: SUBSTITUTE AQUA BOARD IN TUB AREAS

- 5 INTERIOR WALL CONSTRUCTION #2
- 1/2" DRYWALL
  - 2"x6" STUDS @16" O/C
  - 1/2" DRYWALL

NOTE: SUBSTITUTE AQUA BOARD IN TUB AREAS

- 6 FLOOR CONSTRUCTION #1
- FINISHED FLOOR CONFIRMED W/ OWNER
  - 3/8" U-LAY UNDERLAY
  - 3/4" OSB T&G SUBFLOOR NAILED AND GLUED
  - 11 7/8" TJI 230 JOISTS @16" O/C

- 7 FLOOR CONSTRUCTION #2
- HARDROCK ROLL-ON STONE COATING C/W TEXTURED PRIMER & HARDROCK URETHANE SEALER
  - 3/4" OSB T&G SUBFLOOR NAILED AND GLUED
  - 11 7/8" TJI 230 JOISTS @16" O/C
  - R40 BATT INSULATION
  - 6mil POLY AVB CGSB APPROVED

- 8 CONCRETE SLAB CONSTRUCTION
- 5" CONCRETE SLAB C/W 15M @20" O/C
  - 6mil POLY AVB CGSB APPROVED
  - 4" HIGH DENSITY INSULATION
  - 4" MIN. CRUSHED GRANULAR

- 9 FOUNDATION CONSTRUCTION
- PARING TO 8" ABOVE & 6" BELOW GRADE
  - PEEL & STICK MOISTURE BARRIER CGSB APPROVED
  - SUPERIOR WALL SYSTEM
  - 2"x4" STUDS @16" O/C
  - R40 BATT INSULATION
  - 6mil POLY AVB CGSB APPROVED

- 10 CONCRETE FOOTING CONSTRUCTION
- 24"x24" DEEP CONT. PERIMETER FOOTING REINF. W/ 15M @20" O/C NOTCHED FOR WALL SYSTEM
  - 4" CONTINUOUS WEEP TILES C/W SOCK

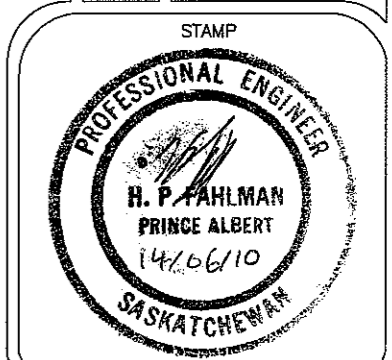
- 11 CONCRETE PAD CONSTRUCTION
- 36"x36"x12" CONC PAD C/W 4-10M E.S. E.W.

- 12 DECK CONSTRUCTION
- 2"x6" P/T DECK BOARDS
  - 2"x8" P/T JOISTS @16" O/C

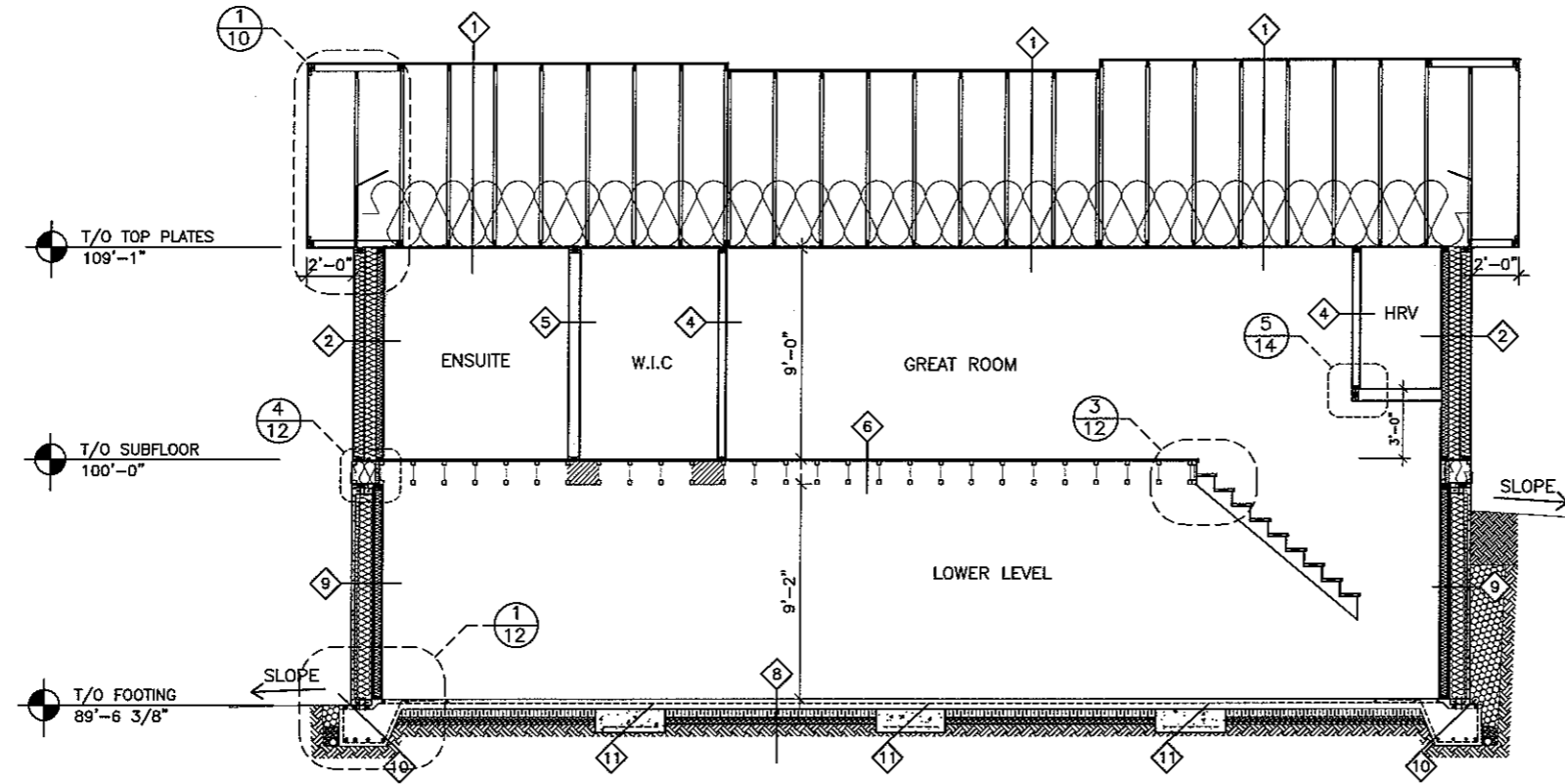
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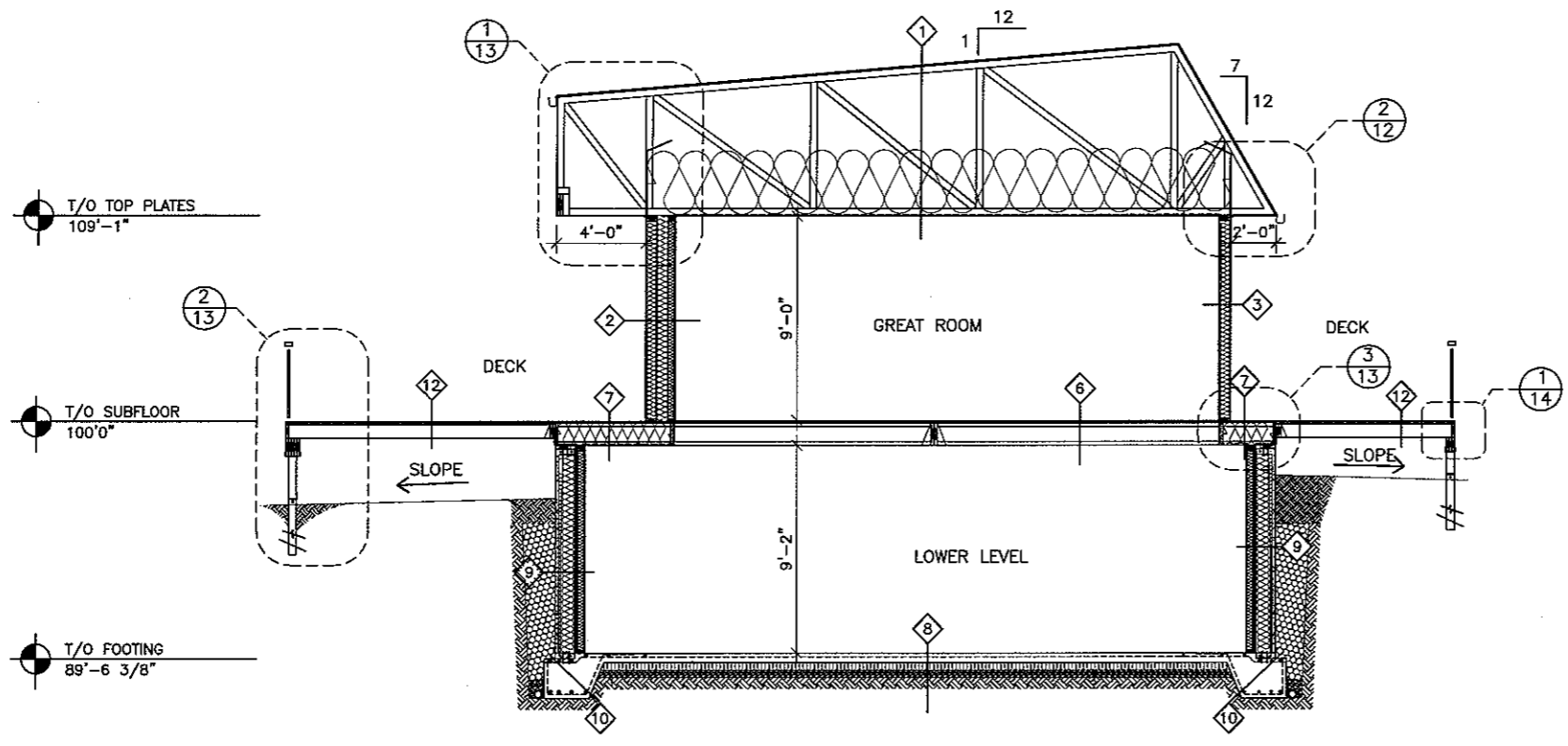
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1 SECTION  
1/8"=1'-0"

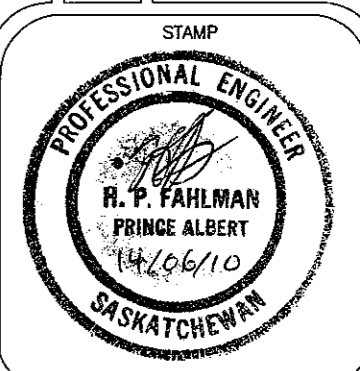


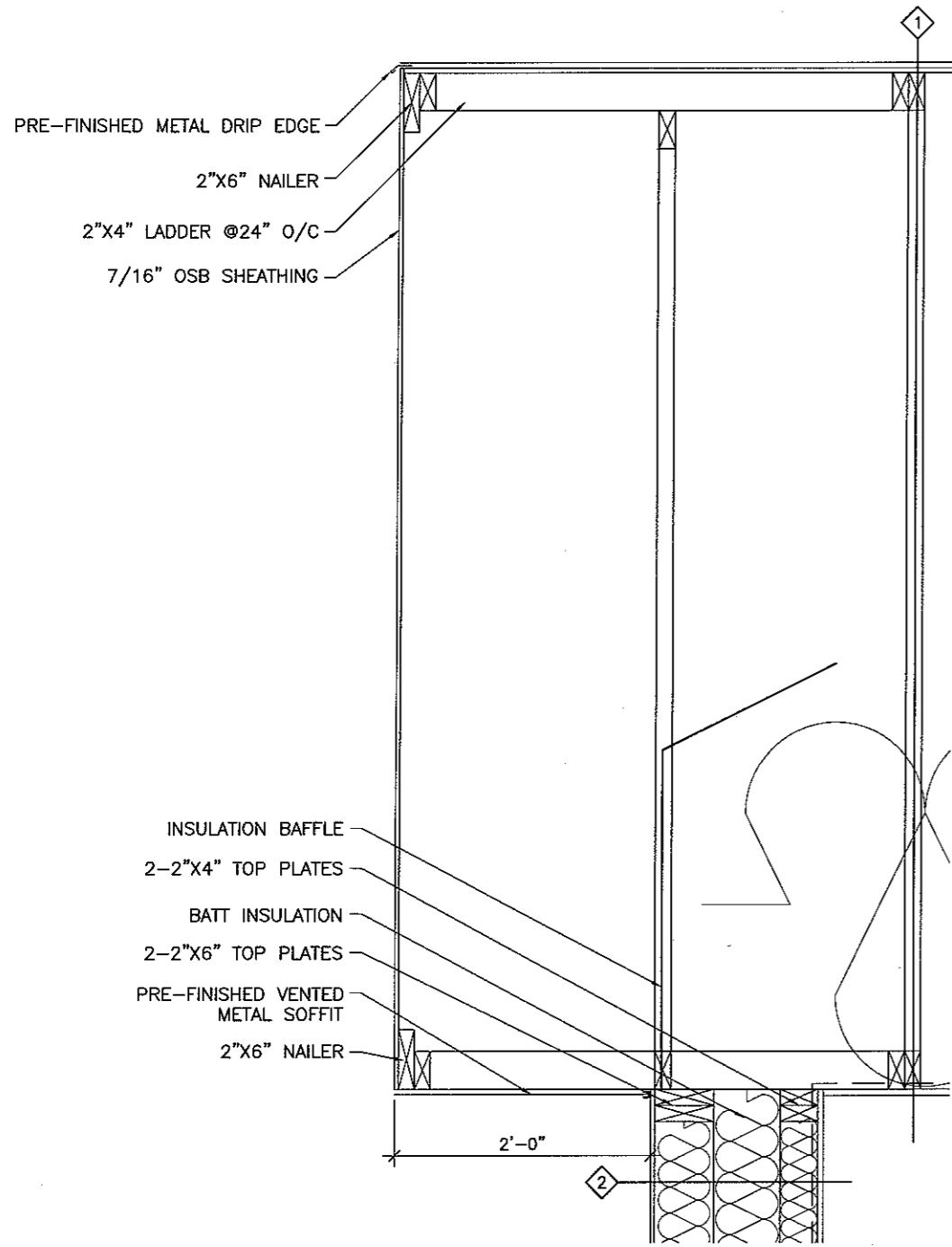
2 SECTION  
1/8"=1'-0"

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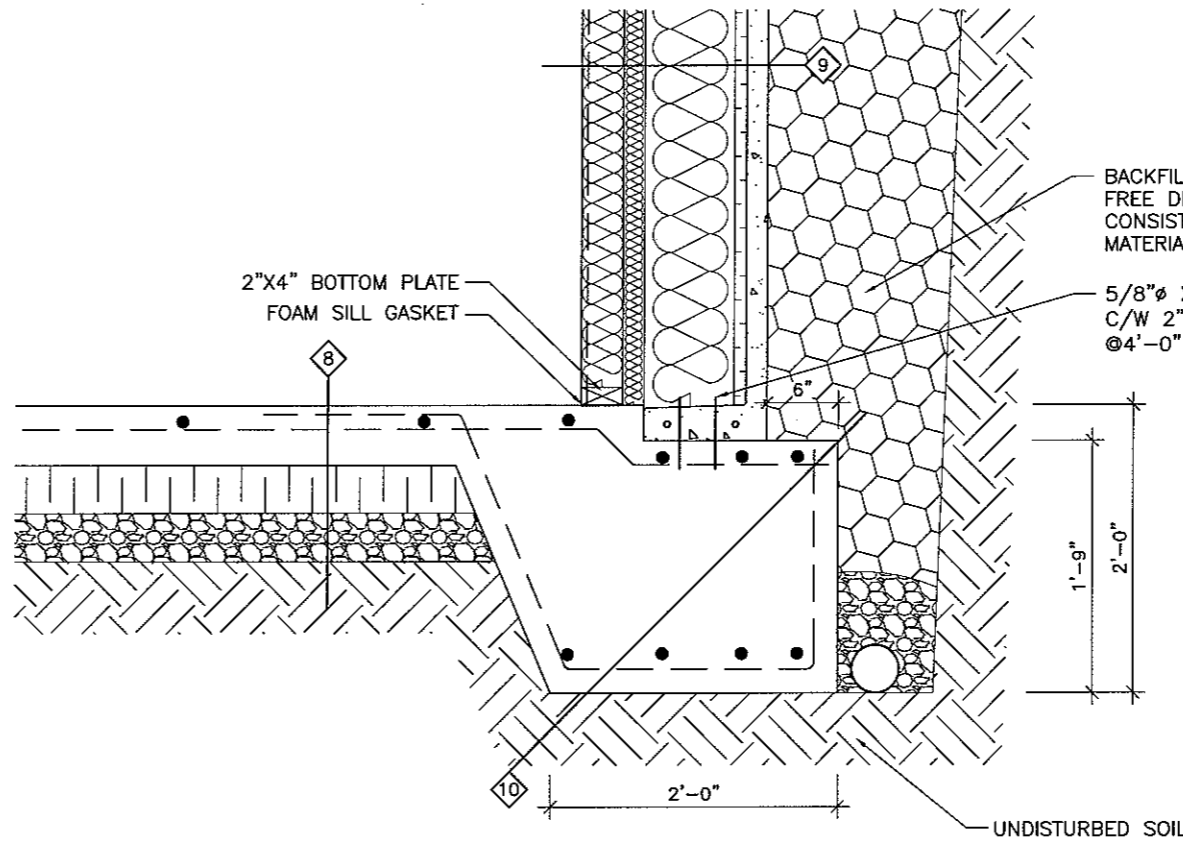
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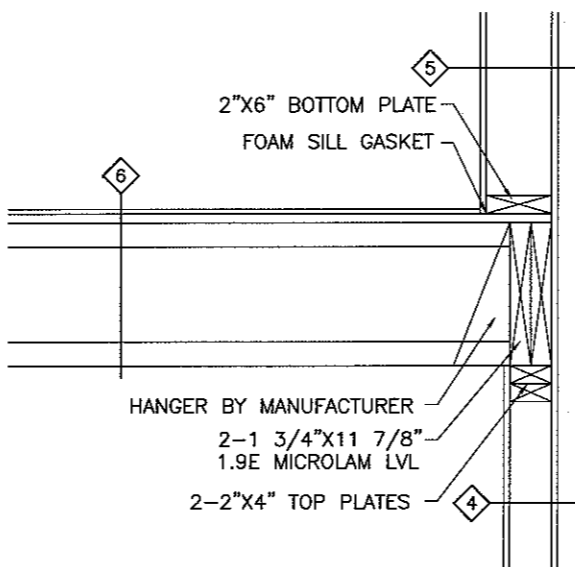




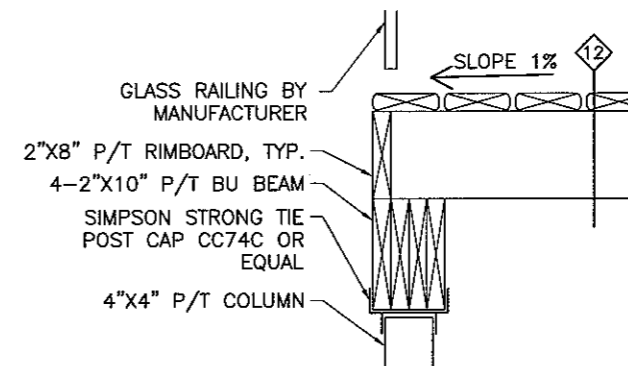
1 EAVE DETAIL  
3/4"=1'-0"



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



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



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

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DRAWING NO.: 11476  
JOB NO.: 2K10-99  
DATE: JUNE 14/10

LOCATION: NEAR LANGHAM, SK  
PROJECT: VERECO NETZERO HOUSE

FOR:

RONN LEPAGE

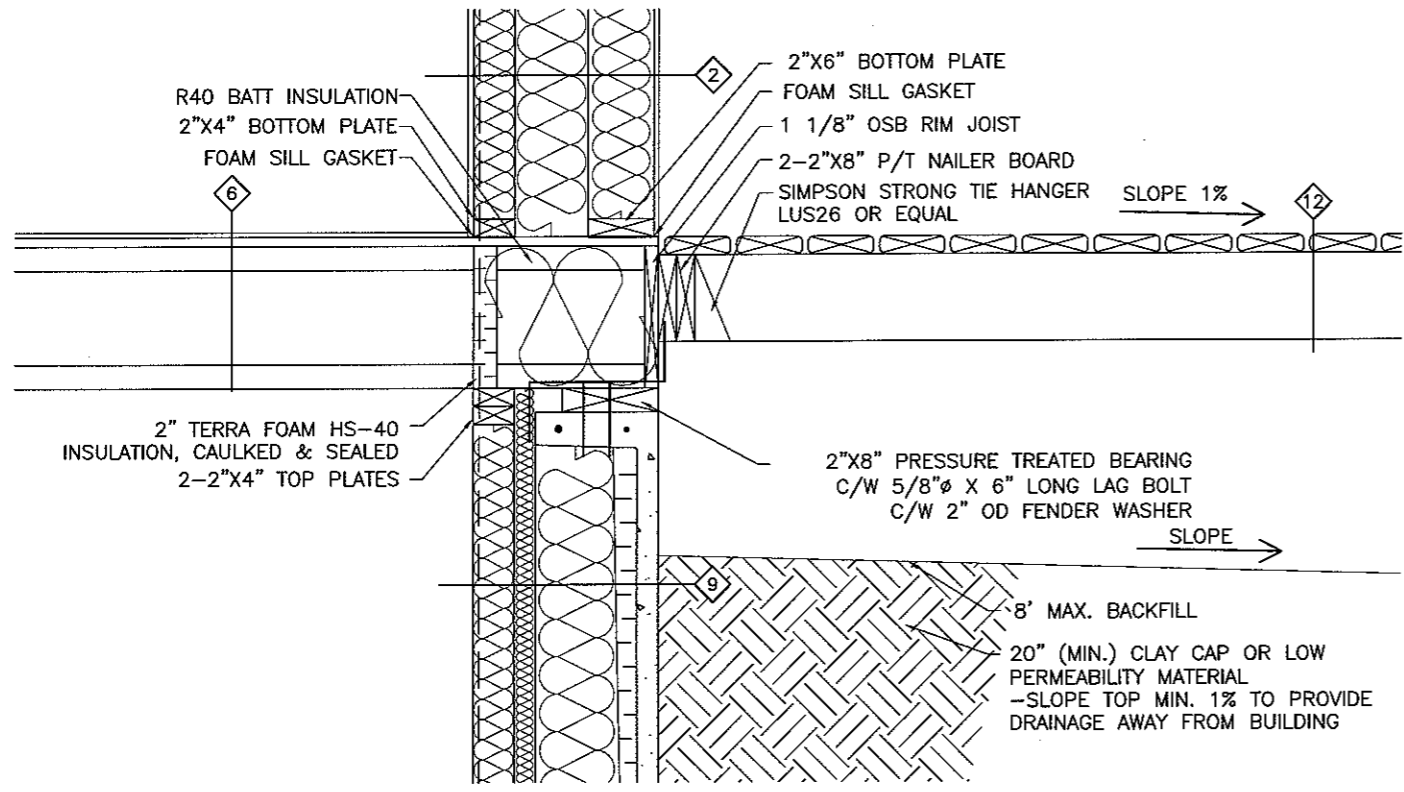
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PRINCE ALBERT, SK  
S6V 3X3

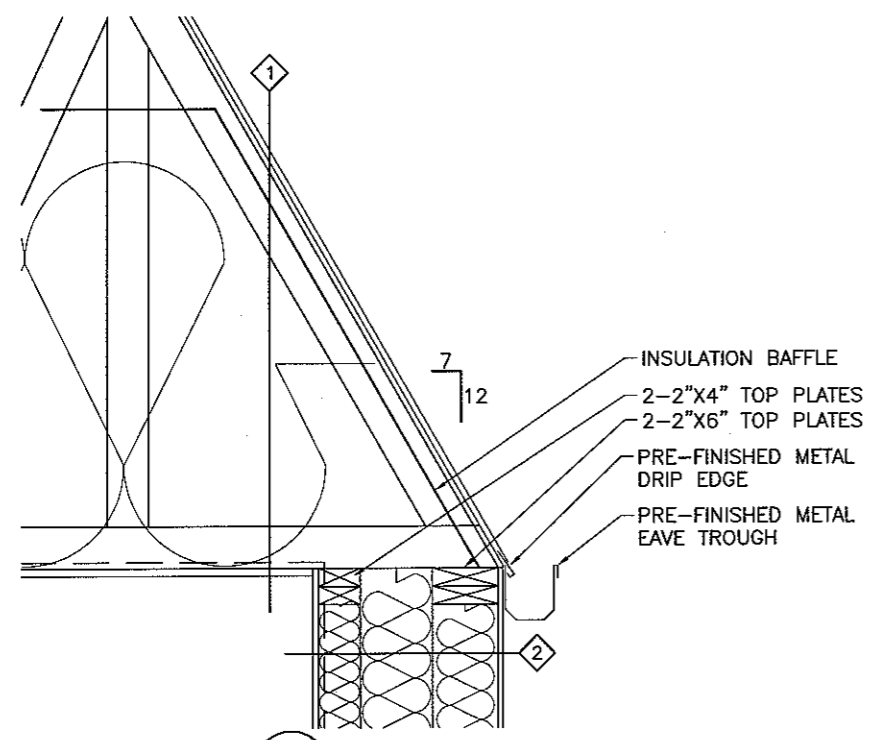
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STAMP

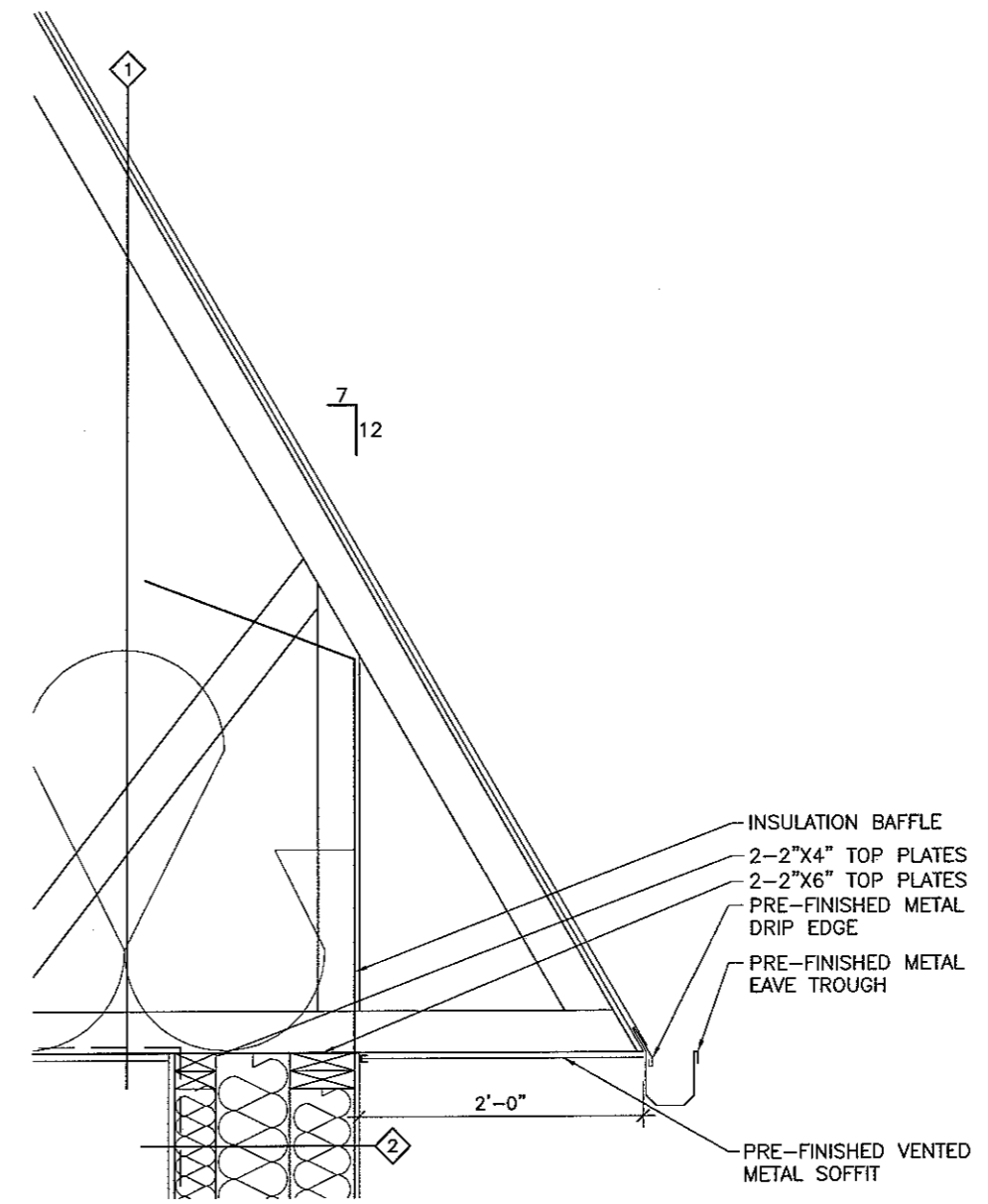




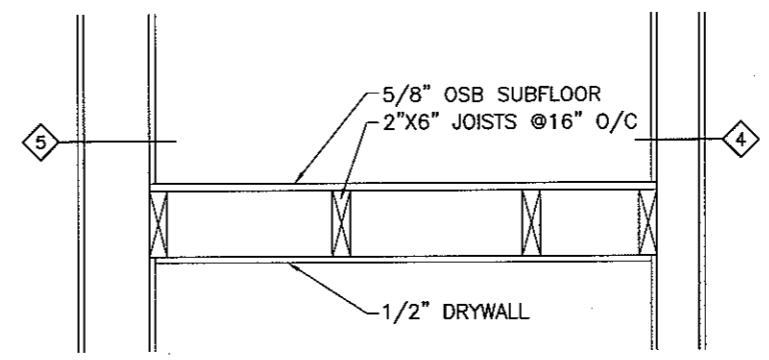
1 DECK/FLOOR DETAIL  
3/4"=1'-0"



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



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



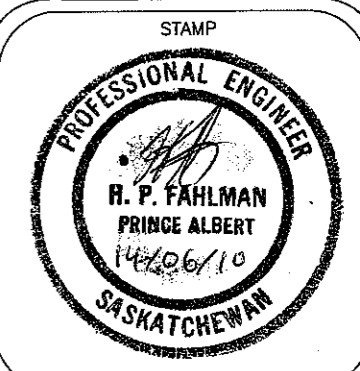
4 FLOOR DETAIL  
3/4"=1'-0"

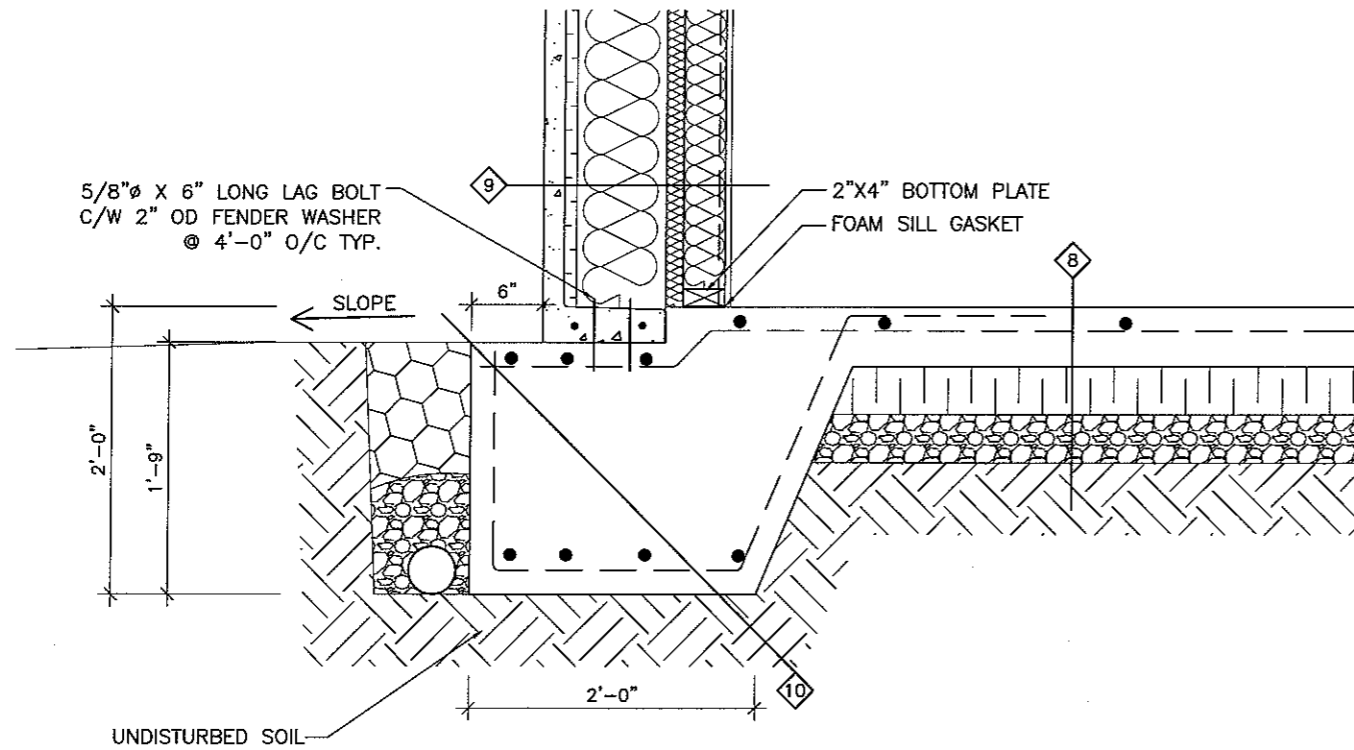
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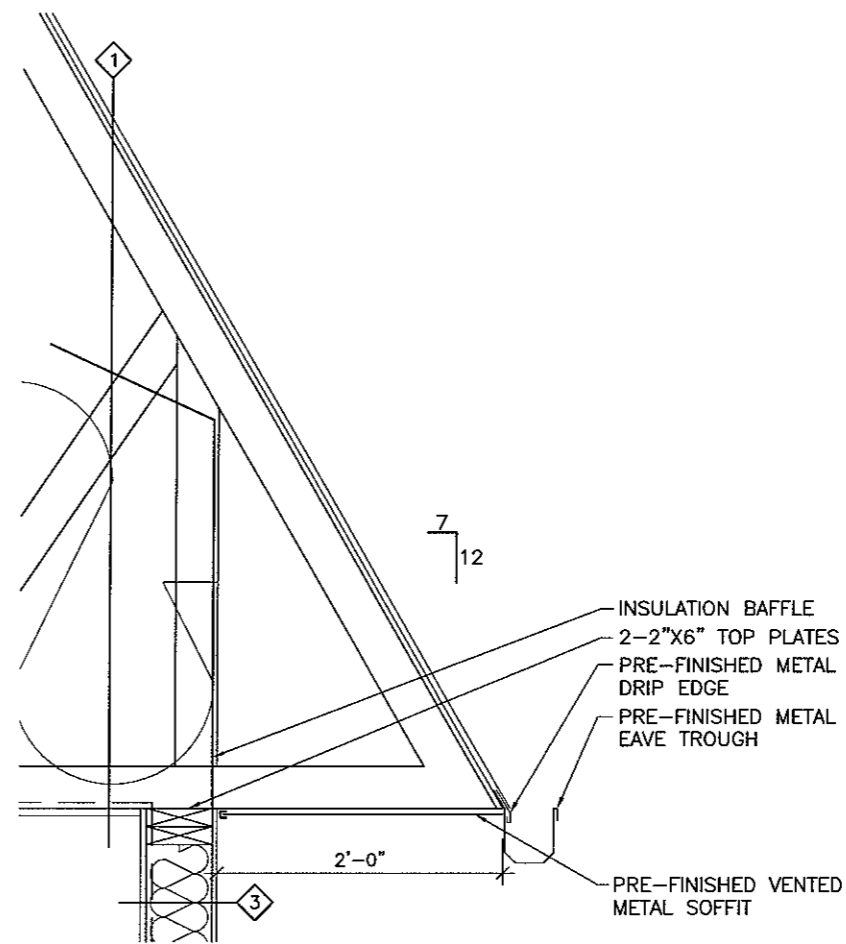
LOCATION: NEAR LANGHAM, SK  
PROJECT: VERECO NETZERO HOUSE  
FOR: RONN LEPAGE

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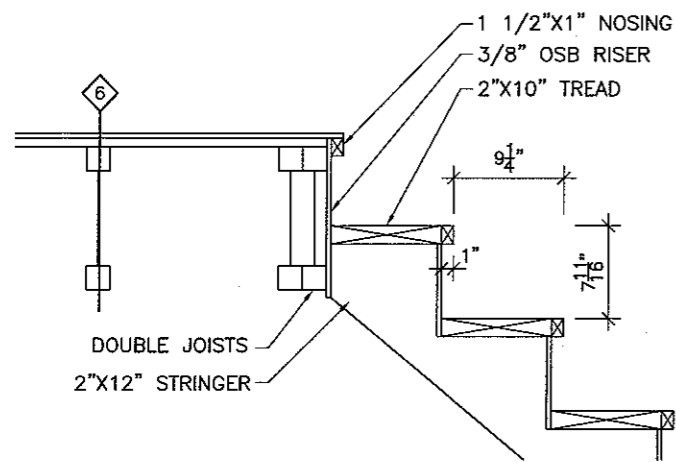




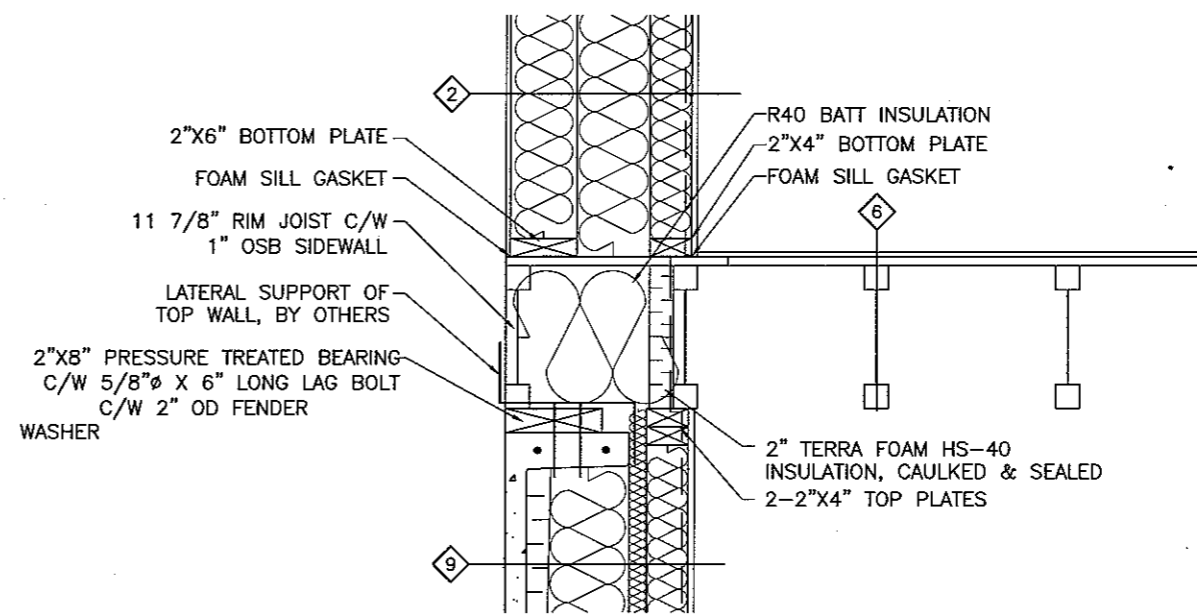
1 FOOTING DETAIL  
3/4"=1'-0"



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



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



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

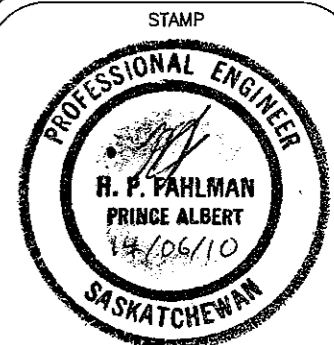
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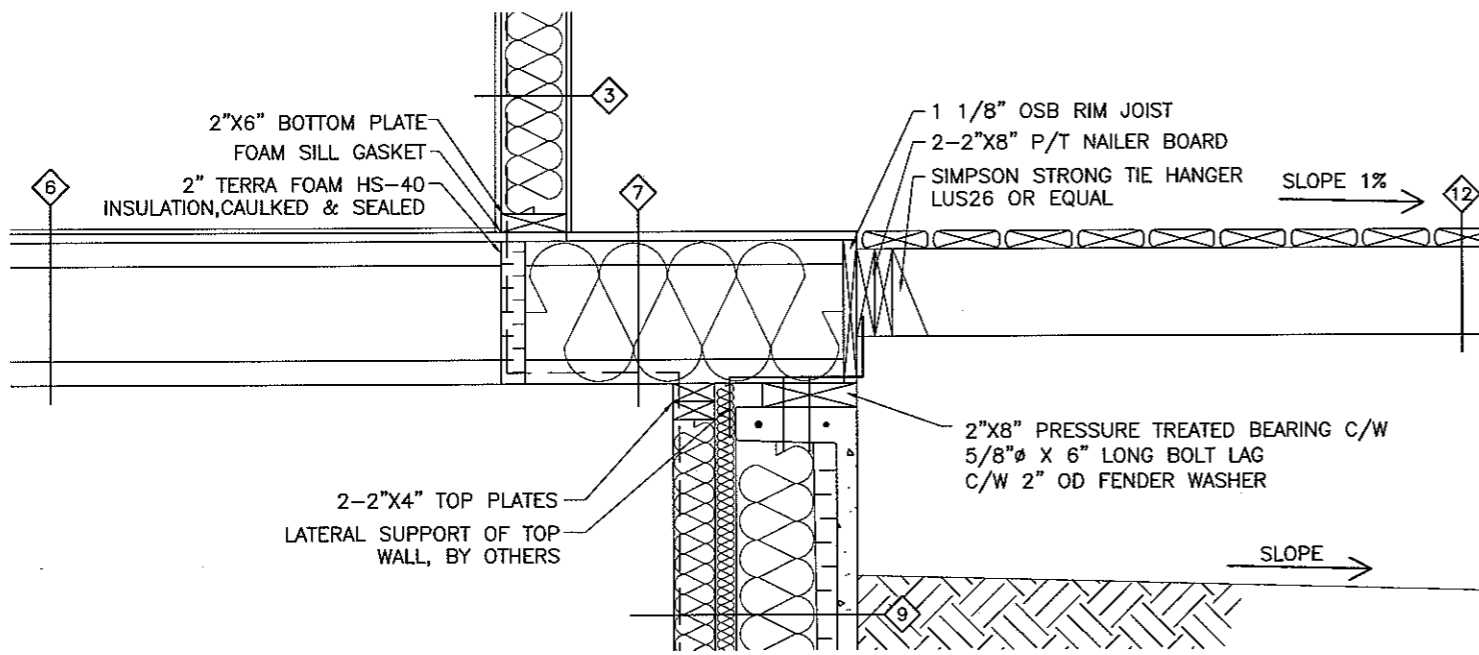
PHONE: 764-8623 FAX: 922-1840



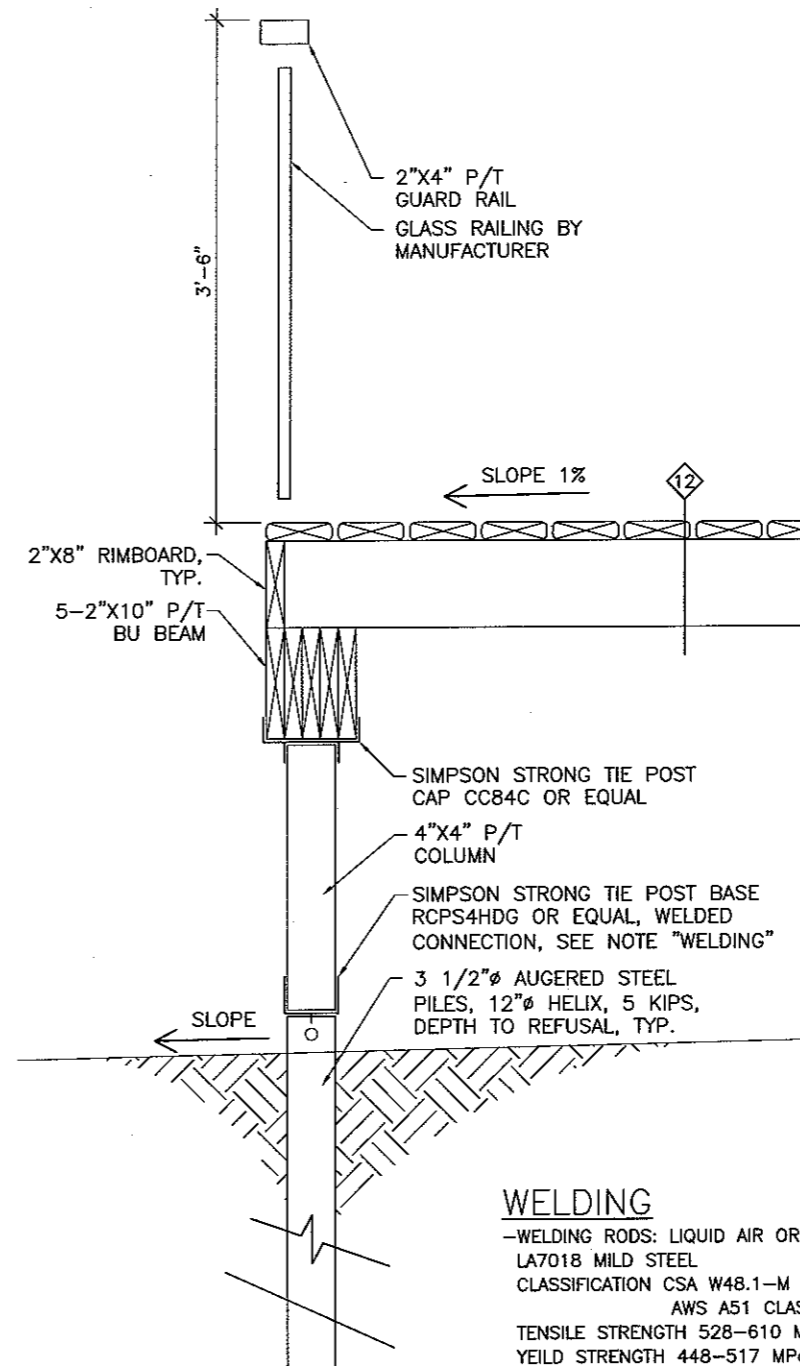
PRE-FINISHED METAL DRIP EDGE  
PRE-FINISHED METAL EAVE TROUGH

INSULATION BAFFLE  
2-2"x4" TOP PLATES  
2-2"x6" TOP PLATES  
2-2"x12" BU BEAM  
PRE-FINISHED VENTED METAL SOFFIT

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



3  
9 DECK/FLOOR DETAIL  
3/4"=1'-0"



2  
9 DECK/PILE DETAIL  
3/4"=1'-0"

**WELDING**

-WELDING RODS: LIQUID AIR OR EQUAL  
LA7018 MILD STEEL  
CLASSIFICATION CSA W48.1-M CLASS E4018-1  
AWS A51 CLASS 7018-1  
TENSILE STRENGTH 528-610 MPa  
YIELD STRENGTH 448-517 MPa  
-WELDS- MINIMUM 3/4" THROAT  
-STEEL SECTION AND PLATES- CSA G40.21-M TYPE 350W

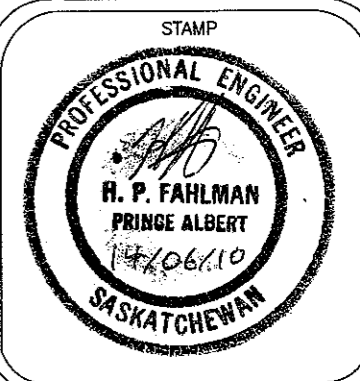
-ALL CONNECTIONS TO BE WELDED BY A CERTIFIED WELDER, CWB ACCREDITED  
-ALL METAL TO BE PRIMED WITH RED OXIDE PAINT  
-ALL WELD CONNECTIONS ARE TO BE MAXIMUM LENGTHS AVAILABLE

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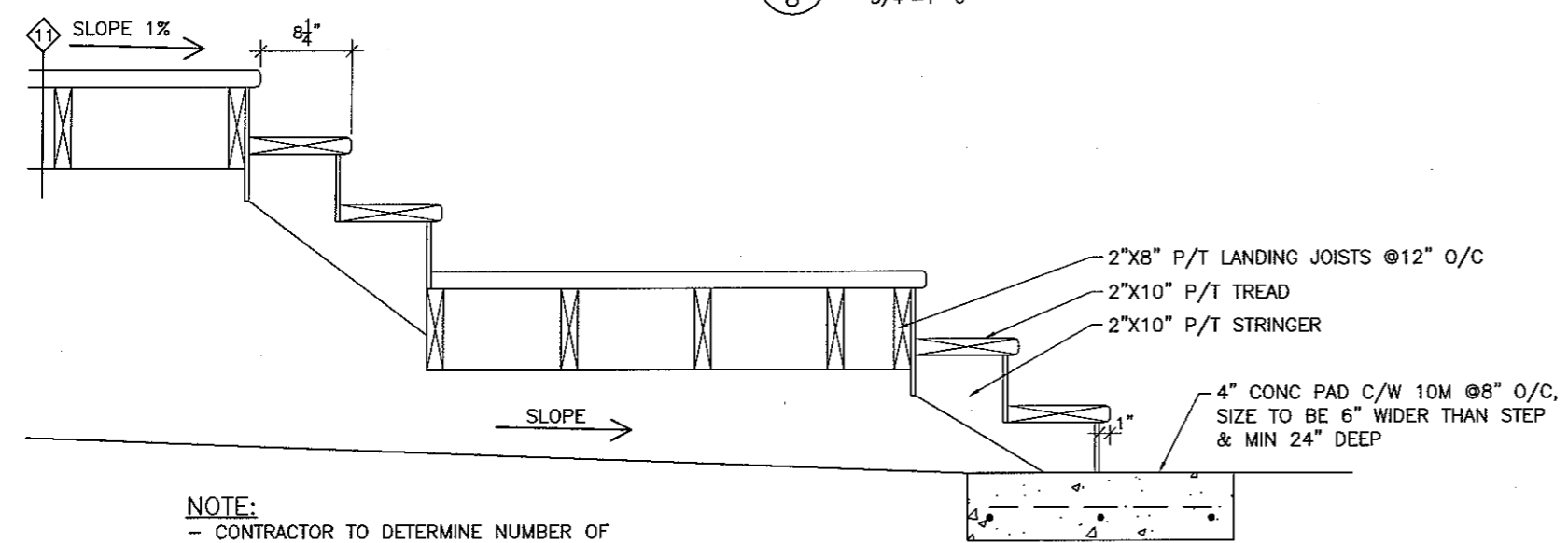
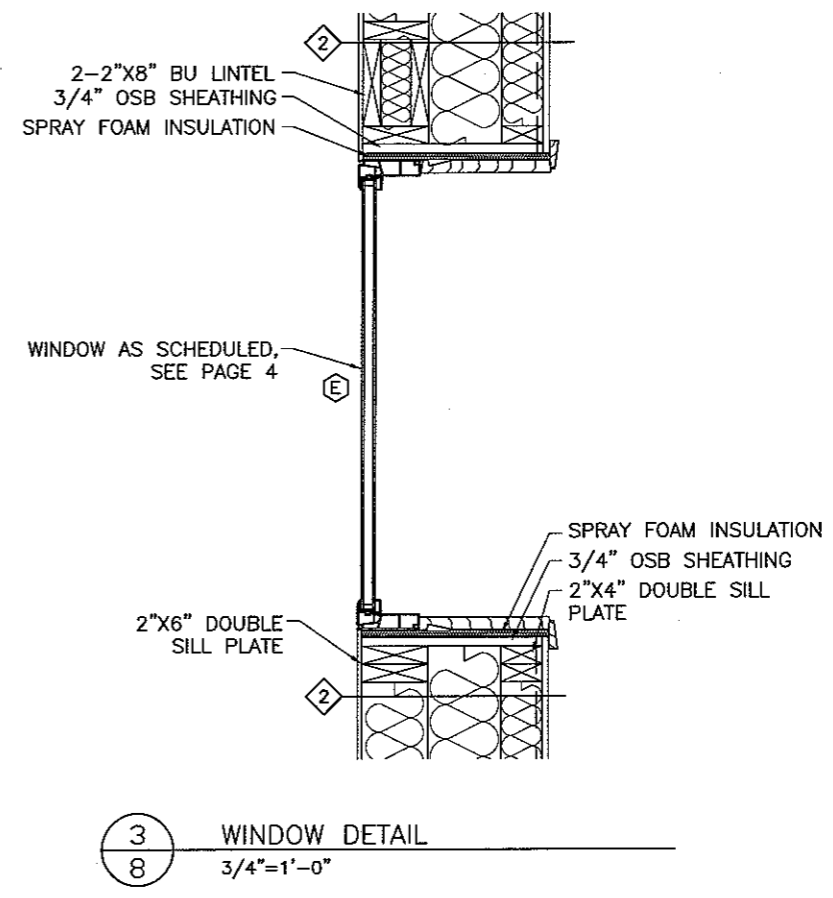
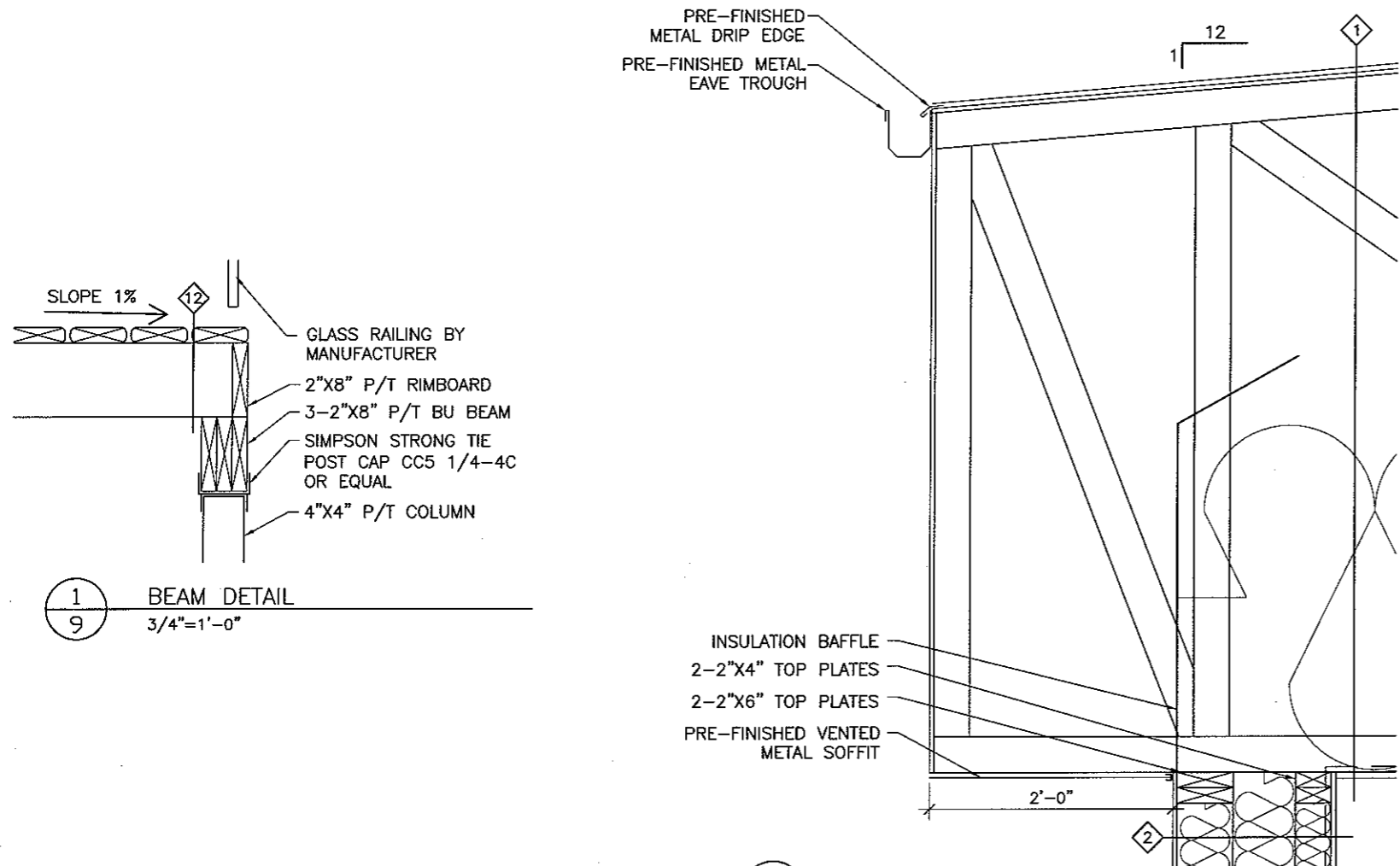
LOCATION: NEAR LANGHAM, SK  
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13  
14

FOR: RONN LEPAGE



**NOTE:**  
 - CONTRACTOR TO DETERMINE NUMBER OF RISERS AND HEIGHT OF RISERS ON SITE  
 - RISER HEIGHT NOT TO EXCEED 7 1/2"  
 - IF STAIRS REQUIRE MORE THAN 3 RISERS A HANDRAIL IS REQUIRED

14  
14

DRAWN BY: JMV DRAWING NO.: 11476 JOB NO.: 2K10-99 DATE: JUNE 14/10	LOCATION: NEAR LANGHAM, SK PROJECT: VERECO NETZERO HOUSE	FOR: RONN LEPAGE
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