

# WALL TYPES

**W1**  
PRE-FINISHED METAL CLADDING  
19x64 HORIZONTAL WOOD STRAPPING  
@ 610 O.C.  
VAPOUR PERMEABLE WEATHER BARRIER  
75 mm RIGID INSULATION - RSI 2.64 (R15) ON  
VERTICAL Z-GIRTS @ 610 mm O.C.  
38 x 38 HORIZ. WOOD STRAPPING  
@ 610 O.C.  
38 mm RIGID INSULATION - RSI 1.32 (R7.5)  
AIR / VAPOUR BARRIER MEMBRANE  
12.5 mm OSB SHEATHING  
2 - 38 x 140 STUDS @ 400 O.C.  
9.5 mm OSB SHEATHING  
PRE-FINISHED METAL LINER

**W2**  
2 HOUR FIRE RATED WALL  
(NBC - DESIGN W2d NON-LOADBEARING)

PRE-FINISHED METAL LINER  
2 - 15.9 mm TYPE X GYPSUM BOARD\*\*\*  
9.5 mm OSB SHEATHING  
2 - 38 x 140 STUDS @ 400 O.C.  
9.5 mm OSB SHEATHING  
2 - 15.9 mm TYPE X GYPSUM BOARD\*\*\*  
PRE-FINISHED METAL LINER

**W3**  
PRE-FINISHED METAL CLADDING  
19x64 HORIZONTAL WOOD STRAPPING  
@ 610 O.C.  
VAPOUR PERMEABLE WEATHER BARRIER  
75 mm RIGID INSULATION - RSI 2.64 (R15) ON  
VERTICAL Z-GIRTS @ 610 mm O.C.  
38 x 38 HORIZ. WOOD STRAPPING  
@ 610 O.C.  
38 mm RIGID INSULATION - RSI 1.32 (R7.5)  
AIR / VAPOUR BARRIER MEMBRANE  
12.5 mm OSB SHEATHING  
2 - 38 x 140 STUDS @ 400 O.C.  
9.5 mm OSB SHEATHING  
12 mm CEMENT-FIBRE BOARD

**W4**  
PRE-FINISHED METAL LINER  
9.5 mm OSB SHEATHING  
2 - 38 x 140 STUDS @ 400 O.C.  
9.5 mm OSB SHEATHING  
12 mm CEMENT-FIBRE BOARD

\*\*\* THE JOINTS OF THE OUTER LAYER OF FINISH  
ON BOTH SIDES OF THE WALL SHALL BE TAPED  
AND FINISHED. FASTENER TYPES AND SPACING  
SHALL CONFORM TO CSA A82.31-M, "GYPSUM  
BOARD APPLICATION"

# DOOR TYPES

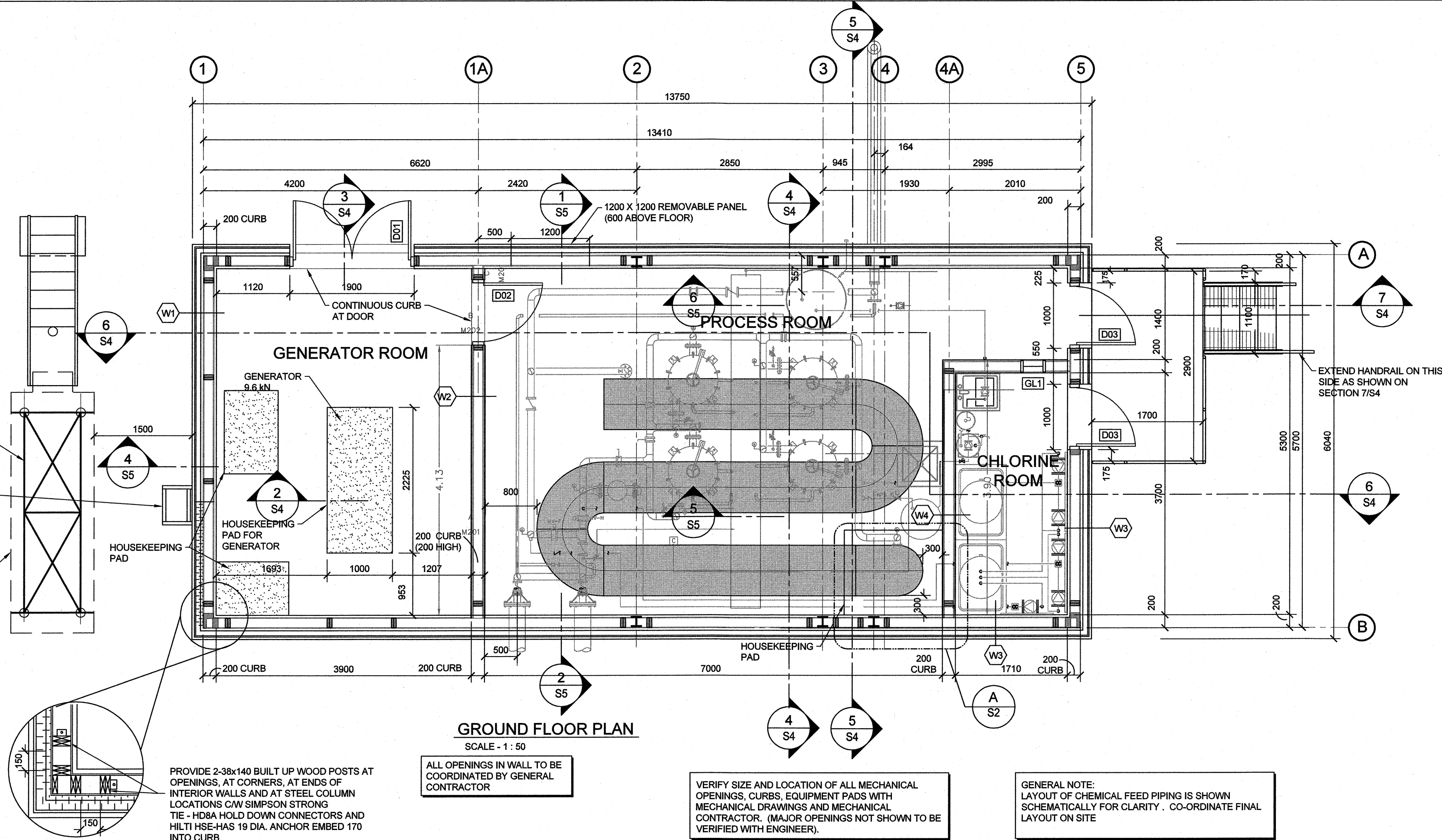
**D01**  
TWO INSULATED METAL DOORS  
PAINTED, 900 x 2150 x45  
DOOR CLOSER  
1-1/2 PR. HEAVY DUTY HINGES  
ASTRAGAL  
WEATHER STRIPPING  
DOOR SWEEP  
ALUMINUM THRESHOLD  
FLUSH BOLTS  
PANIC HARDWARE  
THERMALLY BROKEN PRESSED STEEL FRAME PAINTED

**D02**  
1-1/2 HR. FIRE RATED HOLLOW METAL DOOR  
PAINTED, 900 x 2150 x45  
DOOR CLOSER  
1-1/2 PR. HEAVY DUTY HINGES  
WEATHER STRIPPING  
DOOR SWEEP  
ALUMINUM THRESHOLD  
LEVERED PASSAGE SET  
1-1/2 HR. FIRE RATED PRESSED STEEL FRAME PAINTED

**D03**  
INSULATED METAL DOOR  
PAINTED, 900 x 2150 x45  
DOOR CLOSER  
1-1/2 PR. HEAVY DUTY HINGES  
WEATHER STRIPPING  
DOOR SWEEP  
ALUMINUM THRESHOLD  
PANIC HARDWARE  
LEVERED LOCKSET  
THERMALLY BROKEN PRESSED STEEL FRAME PAINTED

# WINDOW TYPES

**GL1**  
300 mm WIDE X 600 mm HIGH WINDOW  
CW GEORGIAN WIRE GLASS  
METAL FRAME  
BOTTOM OF WINDOW AT 1200 mm ABOVE FINISHED  
FLOOR



GROUND FLOOR PLAN  
SCALE - 1 : 50

ALL OPENINGS IN WALL TO BE  
COORDINATED BY GENERAL  
CONTRACTOR

VERIFY SIZE AND LOCATION OF ALL MECHANICAL  
OPENINGS, CURBS, EQUIPMENT PADS WITH  
MECHANICAL DRAWINGS AND MECHANICAL  
CONTRACTOR. (MAJOR OPENINGS NOT SHOWN TO BE  
VERIFIED WITH ENGINEER).

GENERAL NOTE:  
LAYOUT OF CHEMICAL FEED PIPING IS SHOWN  
SCHEMATICALLY FOR CLARITY. CO-ORDINATE FINAL  
LAYOUT ON SITE



NOTES: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS  
WITH FINAL ARCHITECTURAL AND MECHANICAL DRAWINGS.  
NOTIFY THE ENGINEERS OF ANY ERRORS AND/OR  
OMISSIONS PRIOR TO CONSTRUCTION FOR DIRECTION.  
DO NOT SCALE THIS DRAWING.

# GENERAL NOTES

- Check all dimensions on structural drawings with other drawings. Report any inconsistencies before proceeding with the work. DO NOT SCALE THESE DRAWINGS.
- All work shall comply with current provisions of the National Building Code, the Workplace Safety and Insurance Board and best trade practices. Work shall comply with all local and provincial regulations and with applicable C.S.A. standards. In all cases, the latest editions of codes and standards shall apply.
- Structural design complies with the minimum standards of Part 9 of the National Building Code 2010.
- Before submitting tenders contractors shall carefully examine existing conditions to establish the extent of the work.
- Locate all buried services prior to excavation. The contractor shall be responsible for all temporary bracing, shoring and dewatering necessary to undertake the work.
- The contractor is responsible for removing excess materials and cleaning up on completion of the work.
- The contractor shall verify dimensions before construction and report discrepancies before proceeding with the work.

# FOUNDATIONS (PILES)

- Refer to Geotechnical Report No. OTT-00208308-A0 prepared by exp Services Inc. and dated January 3, 2013.
- Pile installation to be monitored by a qualified Geotechnical Engineer or Technologist.
- Pile holes should be installed when the active layer is frozen. This will allow clean, dry holes to be drilled.
- The pile shall be vibrated to insure a continuous column sand slurry around the outside of the pile.
- Maintain accurate records of slurry volumes and pile depths.
- Once the pile has been installed, a wedge can be used to ensure plumbness and line.
- Ensure that the pile and bracing portion within the active zone have a bond breaker system installed.
- Freeze back around the piles may take 2 - 3 months. Do not apply structural loads until pile freezeback is complete.
- Contractor to confirm with equipment suppliers, dimensions and all other critical details prior to construction. Report discrepancies and obtain approval prior to proceeding with construction.

# MATERIALS SPECIFICATIONS

- Pipe piles: Hollow structural steel sections, minimum yield strength of 350 MPa, size and wall thickness as indicated on the drawings. 141 mm diameter x 6.4 mm thickness, sandblasted.
- Sand slurry: shall not contain particles greater than 5mm or have less than 10% fines passing No. 200 sieve size. The sand should have a salinity of less than 5 ppt.
- Water for slurry : potable with a placement temperature less than 10° C.
- Concrete - materials to CSA-A23.1-14. Compressive strength minimum 35 MPa. 6% +/- 1% entrained air for concrete. Slump 70 +/- 20mm. Maximum water/cement ratio: 0.43. Maximum aggregate size 20 mm. Type GU cement. Exposure Class : C1
- Formwork - to CSA-A23.1-14. Use only new forming materials for architecturally exposed surfaces. Form release agent shall be nonstaining, compatible with finishes where applicable.
- Rebar - deformed billet steel bars to CSA G30.18M-09, Grade 400. Type W for welded rebar.
- Mesh - welded wire fabric to ASTM A1064/A1064M-14.
- Rolled structural steel shapes - General requirements to CSA S16-14, rolled shapes to CSA G40.21-13, 350W minimum. Channels, angles and plates 300W.
- Hollow structural sections - to CSA-G40.20-13/G40.21-13, 350W, Class H.
- Bolts, nuts and washers - General requirements to CSA-S16-14, ASTM A325M-09. Hot dipped galvanized as required.
- Welding : to CSA W59-13, E480XXCH or LH basic electrodes conforming to CSA W48-14. Welding shall be performed only by companies certified by Canadian Welding Bureau as follows: Fusion Welding - certified to CSA W47.1-09(2014); Resistance Welding - certified to CSA W55.3-08(2013). Workmanship to best trade practices for cold weather installations.
- Prime paint to Structural Steel - to CISC/CPMA STANDARD 2-75, one shop coat, one touch up field coat.
- Wood Framing Material - SPF Grade No. 1 or 2. All lumber in direct contact with concrete, soil or moisture to be pressure treated.

- Rough Carpentry - Timber Construction shall conform to Part 9 of NBC 2010 and CSA 086-14.
- Nails and Staples - materials to ASTM F1667-13. Common and spiral ardox nails to be galvanized.
- Prefinished Metal Roofing - Sheet steel to ASTM A653/A653M-13, commercial quality, galvanized, Z275 coating, designation, factory precoated with paint finish.  
Colour: White White QC8317  
Profile: Ideal Roofing Pocket Rib  
Class: FIS  
Thickness: 0.53 mm base metal thickness
- Preformed Cladding/Siding - Sheet steel to ASTM A653/A653M-13, grade A, galvanized, Z275 coating designation, factory precoated with paint finish, 2 coat system dry paint film thickness of 0.025 mm +/- 0.005 mm both faces conforming to film test procedures described in CSSB1 Bulletin No. 5 and ASTM D1005-95 (2013), Stelco 10000 Series or equal.  
Colour: White White QC16076  
Profile: 36 mm deep x 190 mm flute spaces, preformed interlocking joints, acceptable material  
Vic West CL622R with rib profile or equal  
Thickness: 0.61 mm base metal thickness  
Fascia and Trims: same colour and thickness as cladding
- Wall and Roof Insulation: Rigid closed cell polystyrene: to CAN/ULC-S701-11, type 4, compressive strength 210 kPa, thermal resistance of 0.87 RSI/25 mm, thicknesses as specified, square shiplapped edges. Acceptable material Styrofoam SM or approved equal.
- Underside Rigid Insulation: Rigid closed cell polystyrene: to CAN/ULC-S701-11, type 4, compressive strength 210 kPa, thermal resistance of 0.87 RSI/25 mm, thicknesses as specified, square shiplapped edges. Standard of Acceptance Styrofoam SM or approved equivalent.
- Girts: "Z" profile, minimum 1.3 mm thick, height to suit insulation thickness, formed from galvanized sheet steel to ASTM A653/A653M-13, Grade A, with zinc coating designation Z275, with 50 mm wide bottom flange and 64 mm wide top flange. Terminations: perimeter framing of "L" or "C" profiles to match "Z" girts.
- Fasteners for girts: epoxy coated 4mm dia. steel screws of sufficient length to penetrate through deck.
- Fasteners for metal roofing: self-drilling cadmium plated steel purpose made, head colour same as exterior steel roofing, neoprene washer exposure.
- Fasteners for metal cladding: cadmium plated steel purpose made, head colour same as exterior sheet, dished steel/neoprene.
- Sealants: single component acrylic, colour to match roofing/cladding.
- Polyethylene Sheets - 0.25 mm (10 mil) clear polyethylene film.

# REINFORCEMENT PLACEMENT

- Minimum clear cover  
- For concrete placed against earth.....75 mm  
- For concrete placed in forms but in contact with earth and weather.....50 mm  
- Interior slabs and walls.....40 mm  
- Curb .....40 mm
- Laps  
- lap all bars 36 bar diameters or 450 mm minimum, whichever is greater, unless otherwise indicated.
- Chairs for support of slab reinforcing spaced at maximum of 1.0 m in either direction. Supply support bars, chairs and carriers.

# DESIGN SERVICE LOADS

**DEAD LOADS**  
FLOOR 4.8 kPa  
ROOF (Self weight) 1.35 kPa  
Superimposed Loads (Mech. Allowance) 0.5 kPa

**LIVE LOADS**  
FLOOR 7.2 kPa

**ROOF SNOW LOAD**  
Ss = 3.4 kPa  
Sr = 0.2 kPa  
Is = 1.25 ULS  
Is = 0.9 SLS  
  
S = Is [Ss (Cb Cw Cs Ca) + Sr  
= 1.25 [ 3.4 (0.8)(1.0)(1.0)(1.0) + 0.2]  
= 3.6 kPa

# LATERAL LOADING

**WIND LOAD (Governors)**  
P= Iw q Ce Cp Cg  
q(1.50) = 0.64 kPa  
Cp Cg = 1.95 for walls  
Cp Cg = 2.0 for roof  
Ce = 0.9  
  
Iw = 1.25 ULS Iw = 0.75 SLS

**WIND EAST - WEST**  
= 21 kN

**WIND NORTH - SOUTH**  
= 49 kN

# EARTHQUAKE LOAD

Site Classification C  
Sa (0.2) = 0.188  
Sa (0.5) = 0.095  
Sa (1.0) = 0.052  
Sa (2.0) = 0.015  
Fa = 1.0  
Fv = 1.0  
S (T = 0.2) = 0.1880  
S (T = 0.5) = 0.0950  
S (T = 1.0) = 0.0520  
S (T = 2.0) = 0.0150  
S (T > 4.0) = 0.0075  
Rd = 1.7  
Ro = 3.0  
Ie = 1.5 ULS No Irregularities  
V= S(0.2) Ie W/ Rd Ro  
= 2/3 (0.188)(1.5) W/(3.0)(1.7)  
= 0.0369W  
  
North-South or East-West  
V= 10.5 kN

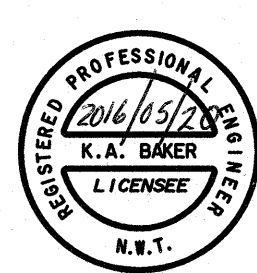
# ROOF & WALL SHEATHING

## Plywood / OSB Nailing Requirements

Wall Sheathing (OSB, thickness as indicated)  
Walls along Grid Lines (A) and (B), (1), (A), (4A) and (5)  
Wall Sheathing (Both Faces)  
@ Panel Edges 150 mm O.C.  
@ Intermediate Framing 300 mm O.C.

Roof Sheathing (Douglas Fir Plywood, thickness as indicated, use H-Clips as required).  
@ Panel Edges 150 mm O.C.  
@ Intermediate Framing 300 mm O.C.

76 mm (3") Long Common Wire Nails 3.66 mm (Diameter)



PERMIT OF PRACTICE  
EXP SERVICES INC.  
Signature: *K.A. Baker*  
Date: 2016/05/20  
PERMIT NUMBER: P483  
NTNU Association of Professional  
Engineers and Geoscientists



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CLIENT

GOVERNMENT OF NUNAVUT  
DEPARTMENT OF COMMUNITY  
AND GOVERNMENT SERVICES

PROJECT

REPULSE BAY, NUNAVUT  
WATER TRUCK FILL STATION  
PROJECT: 12-3002

TITLE

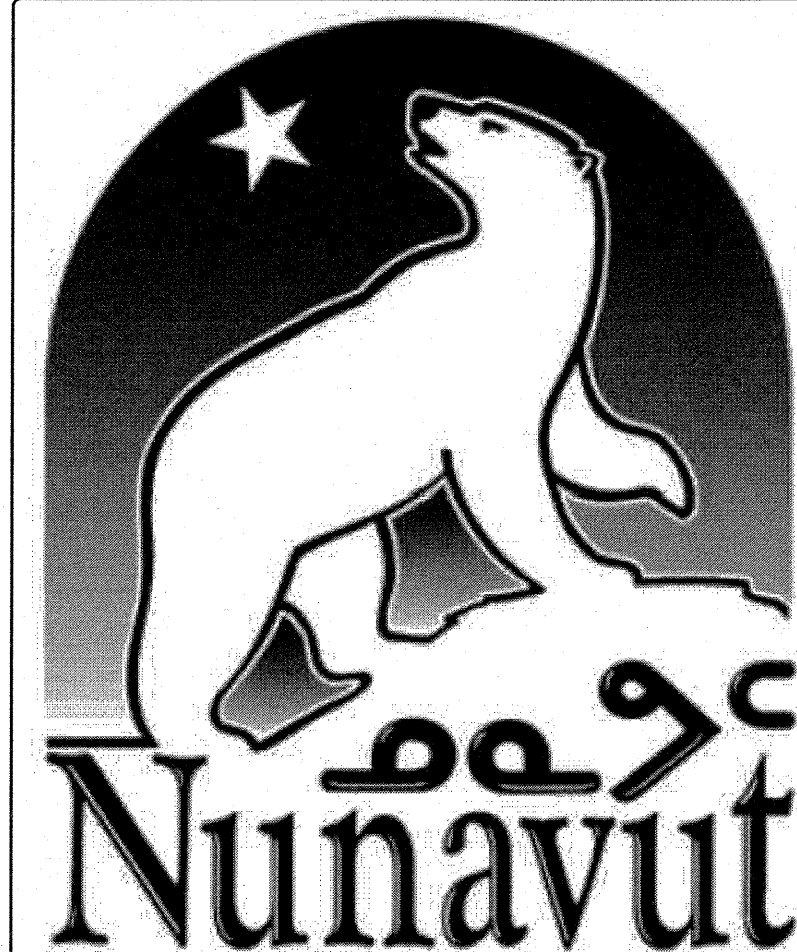
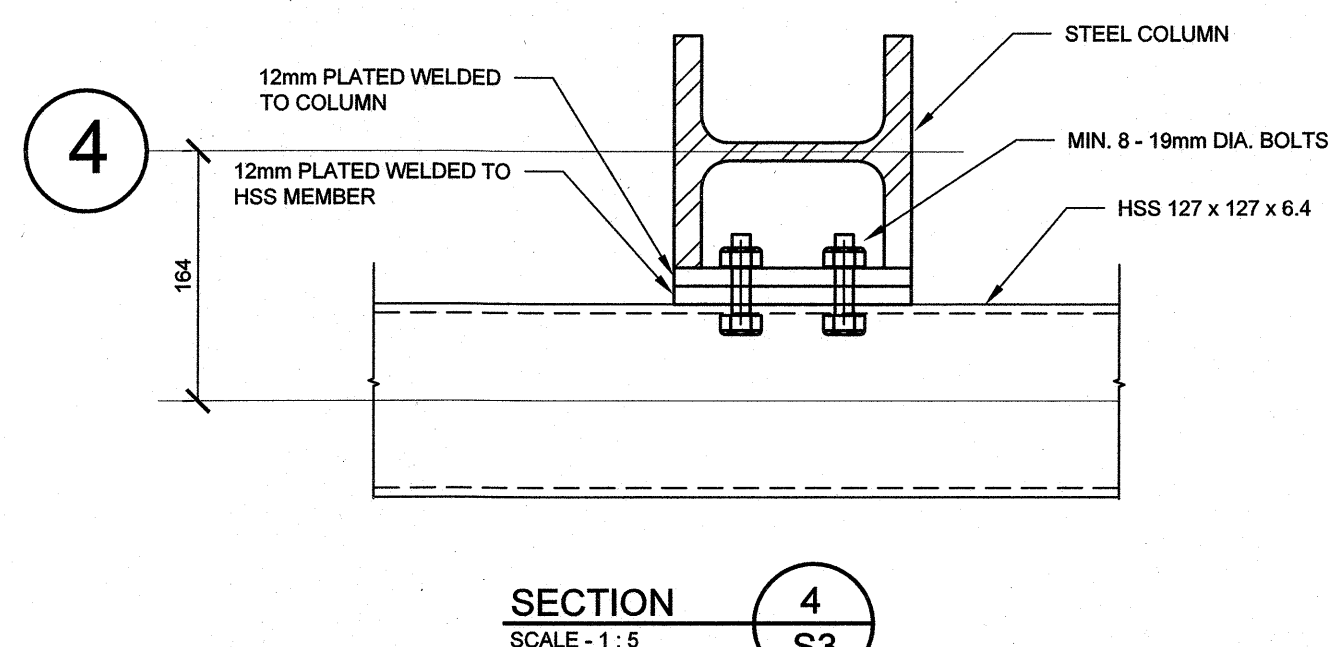
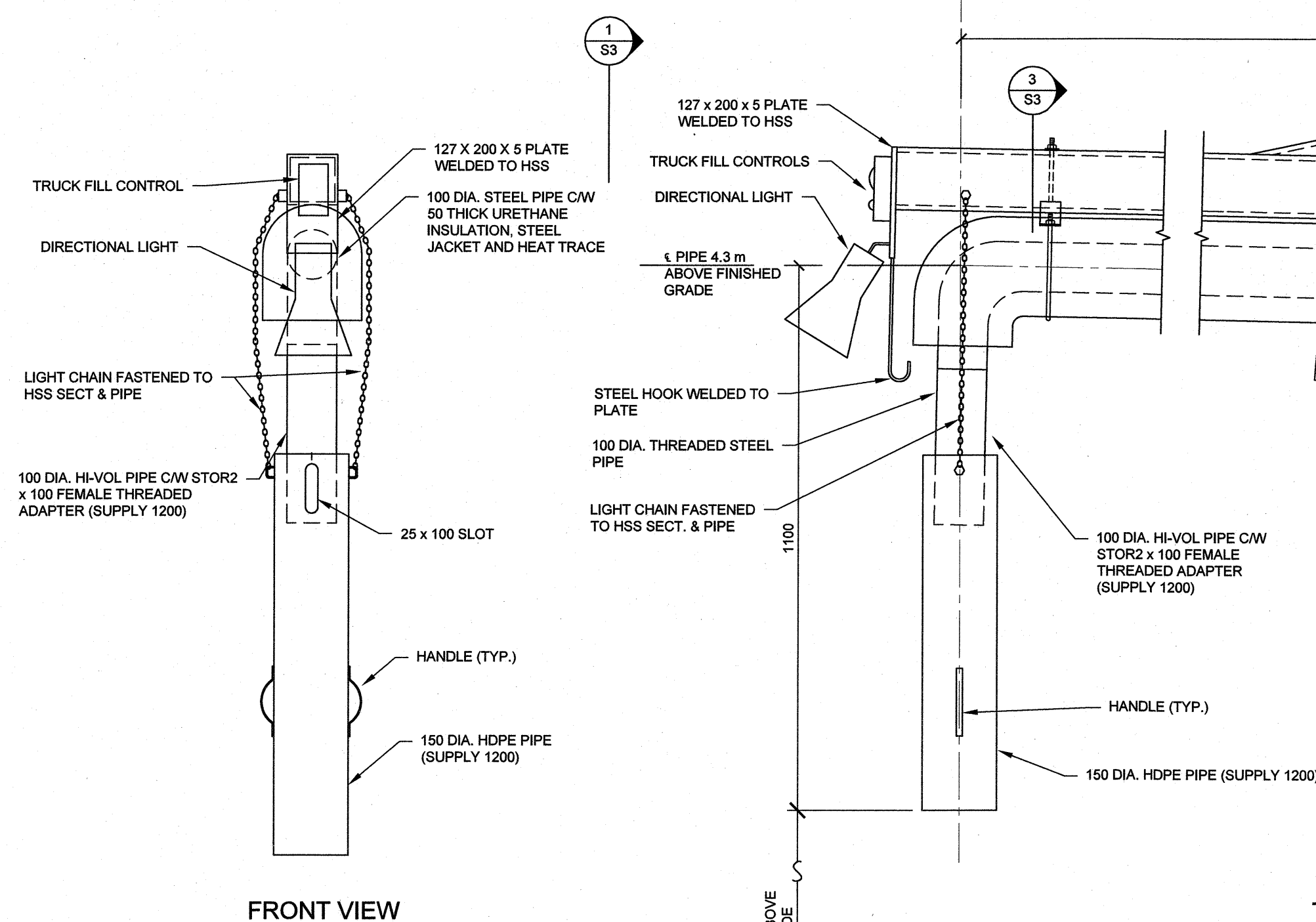
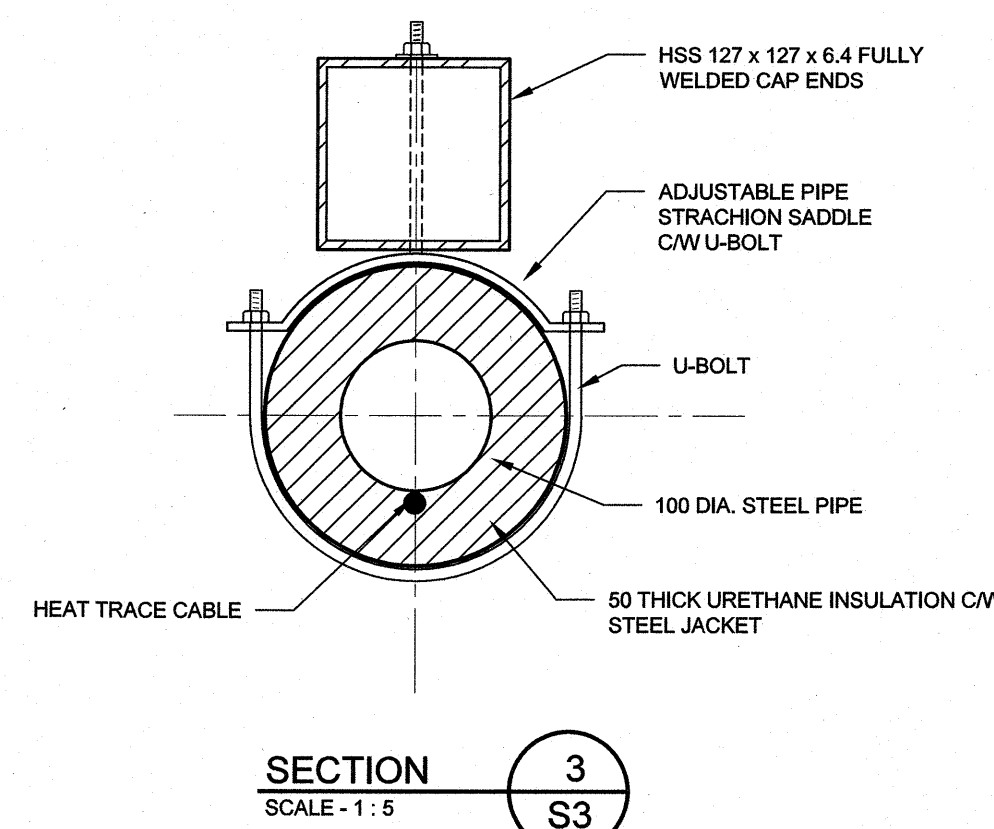
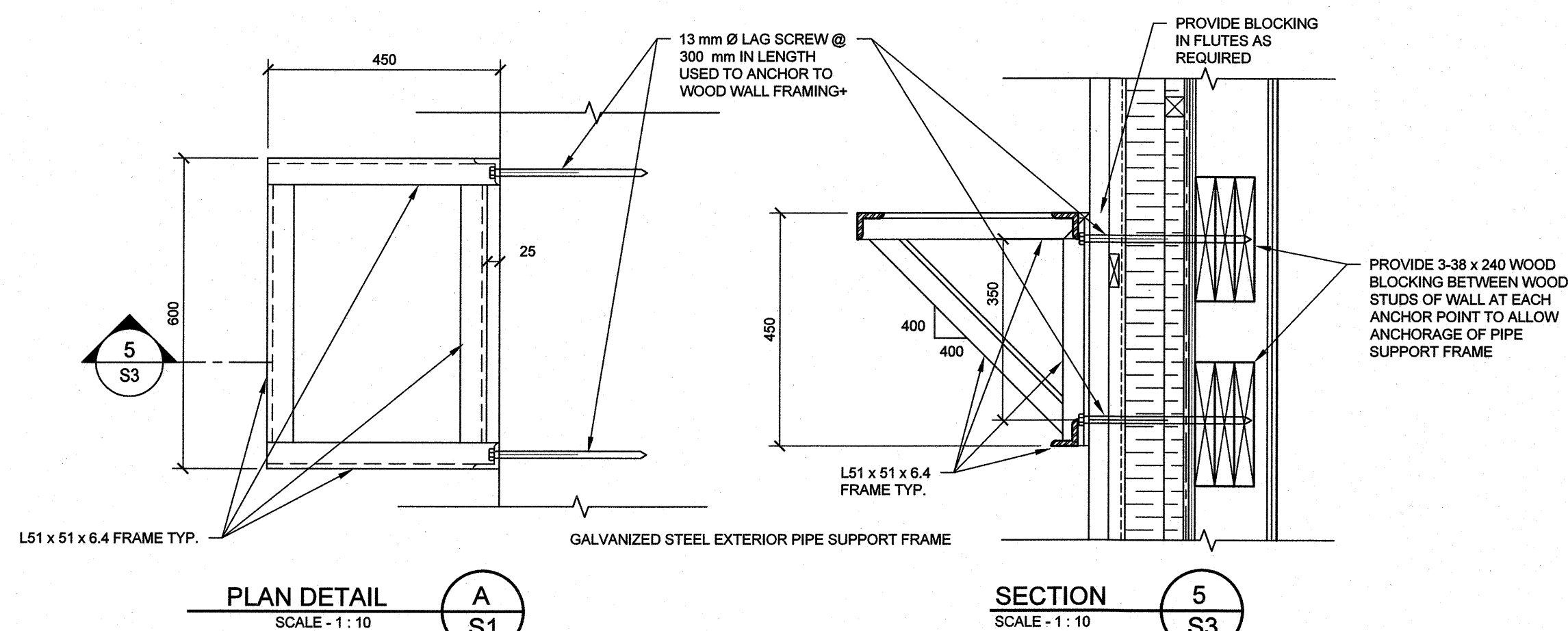
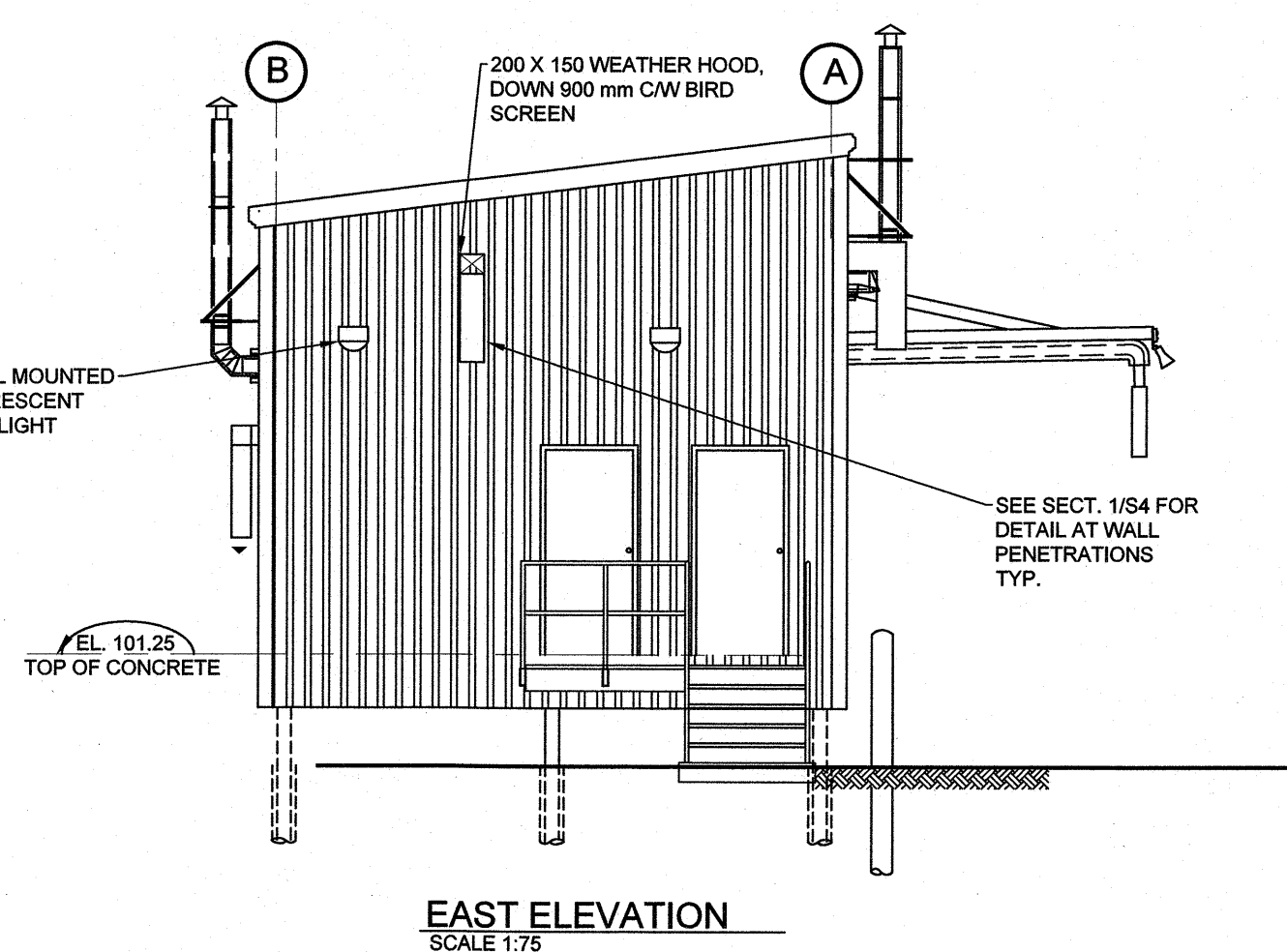
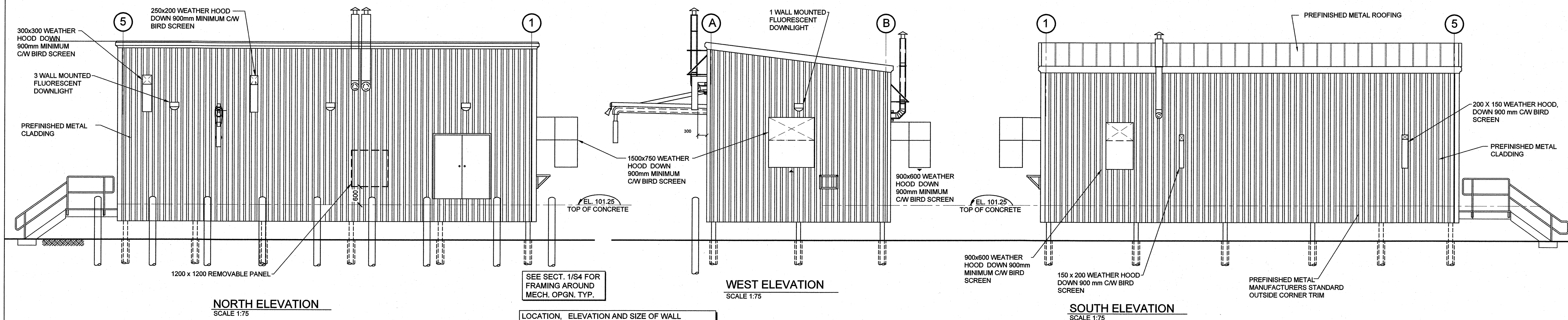
GROUND FLOOR PLAN  
AND GENERAL NOTES

Design by	K.A. BAKER	Project no.	OTT-00208308-A0
Drawn by	M. NUGENT	Drawing no.	
Checked by	K.A. BAKER		
Date	MAR. 2013		
Scale	AS NOTED		



design by	K.A. BAKER	project no. OTT-00208308-A0  drawing no.  <div style="font-size: 2em; font-weight: bold; text-align: center;">S2</div>
drawn by	M. NUGENT	
checked by	K.A. BAKER	
date	MAR. 2013	
scale	AS NOTED	





NOTES: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS WITH FINAL ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ENGINEERS OF ANY ERRORS AND/OR OMISSIONS PRIOR TO CONSTRUCTION FOR DIRECTION. DO NOT SCALE THIS DRAWING.

No.	DESCRIPTION	DATE	BY	APPD
3	ISSUED FOR CONSTRUCTION	20/05/2016	M.N.	K.A.B.
2	REISSUED FOR TENDER	18/11/2015	M.N.	K.A.B.
1	ISSUED FOR TENDER	11/12/2014	M.N.	K.A.B.

**PERMIT OF PRACTICE**  
EXP SERVICES INC.

Signature: *K.A. Baker*  
Date: 2016/05/20

PERMIT NUMBER: P483  
NTNU Association of Professional Engineers and Geoscientists

**exp.** exp Services Inc.  
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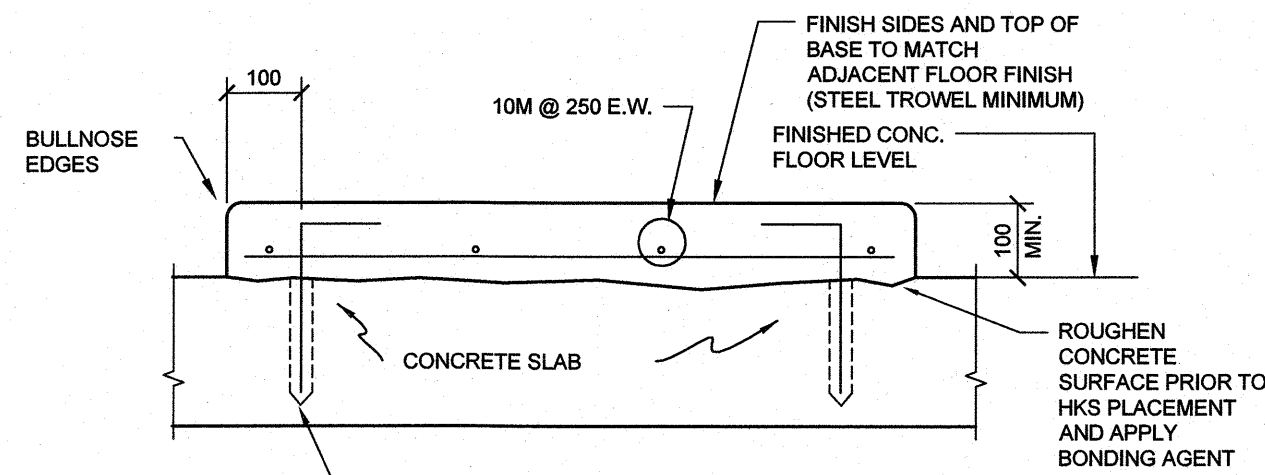
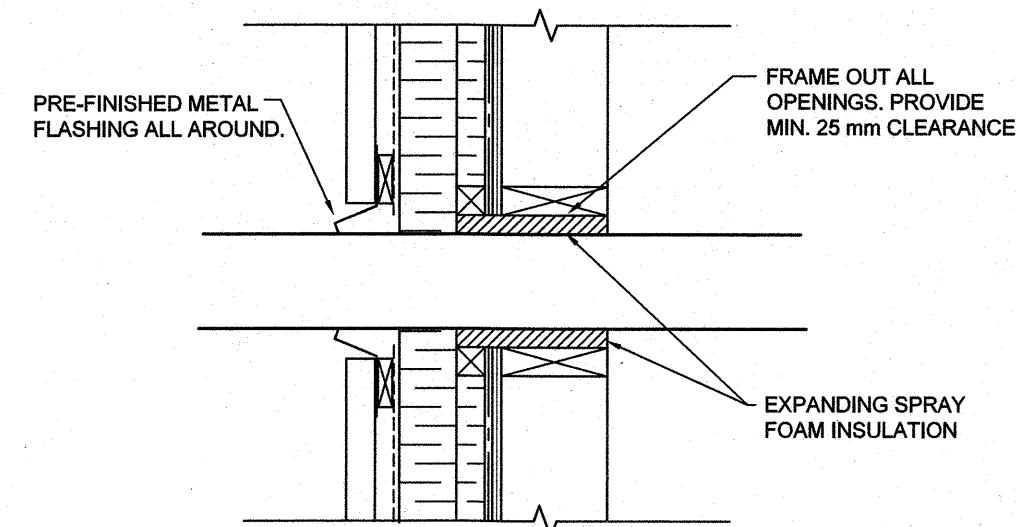
CLIENT: **GOVERNMENT OF NUNAVUT**  
DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

PROJECT: **REPULSE BAY, NUNAVUT**  
WATER TRUCK FILL STATION  
PROJECT: 12-3002

TITLE: **BUILDING ELEVATIONS AND FILL PIPE DETAILS**

design by	K.A. BAKER	project no.	OTT-00208308-A0
drawn by	M. NUGENT	drawing no.	S3
checked by	K.A. BAKER		
date	MAR. 2013		
scale	AS NOTED		

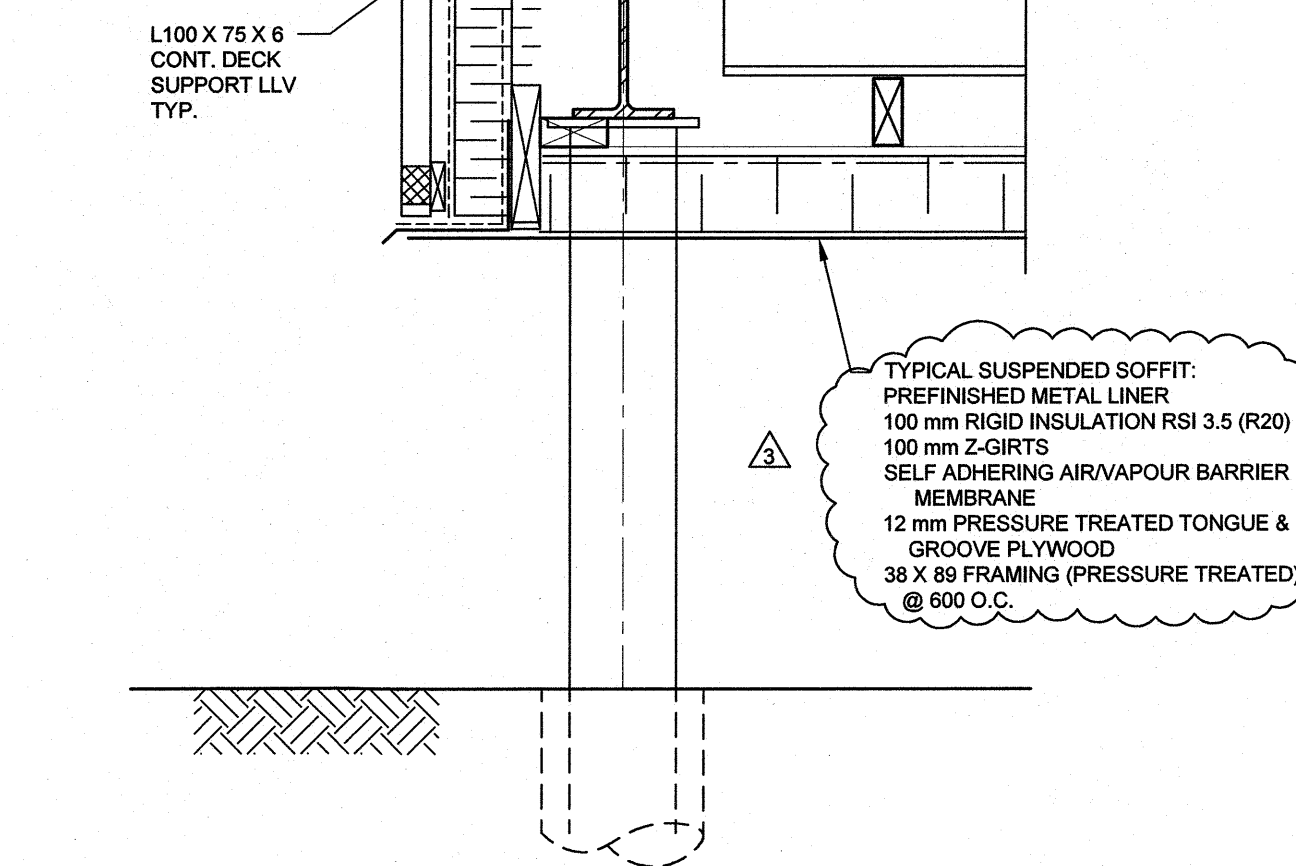
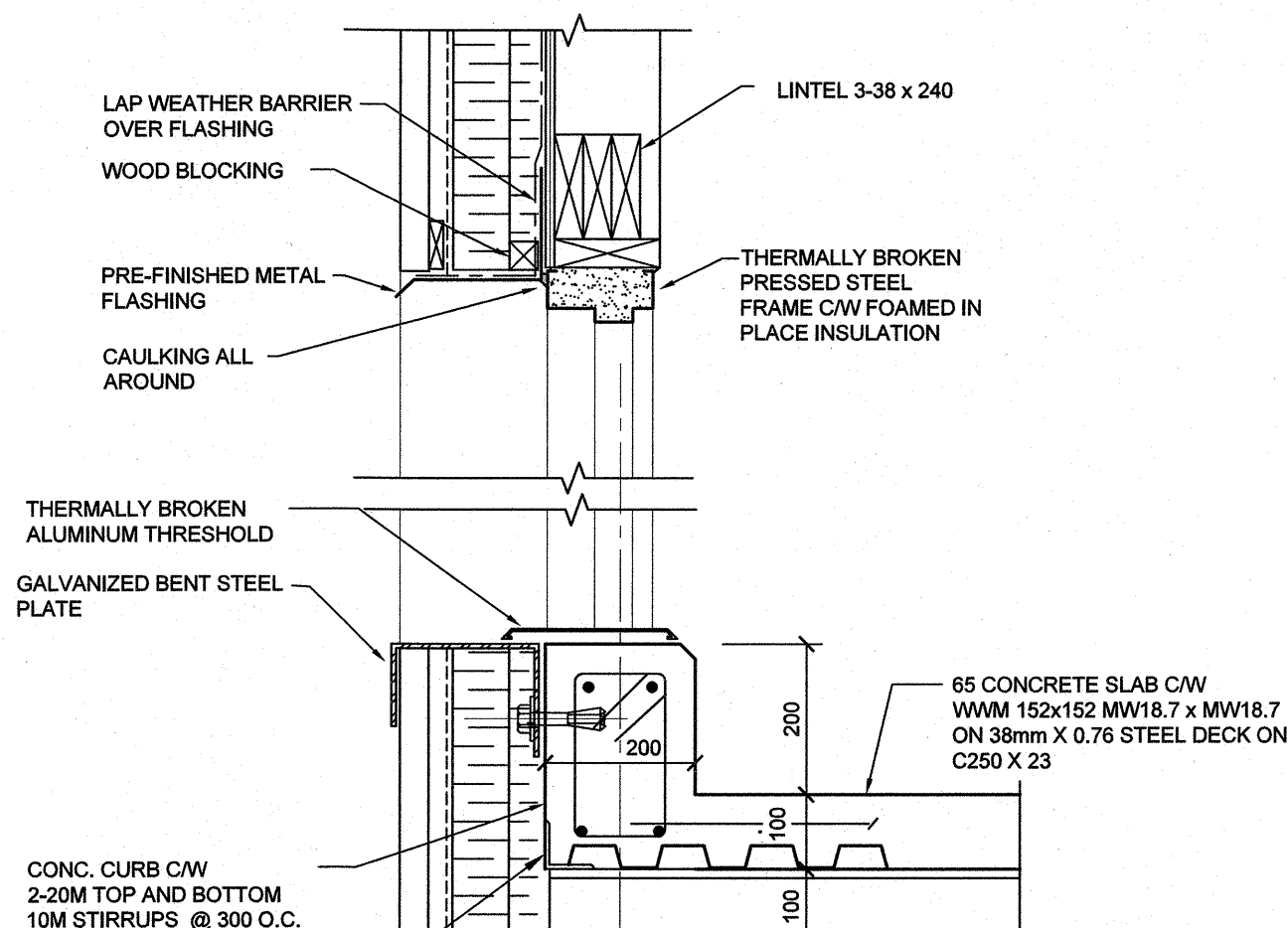




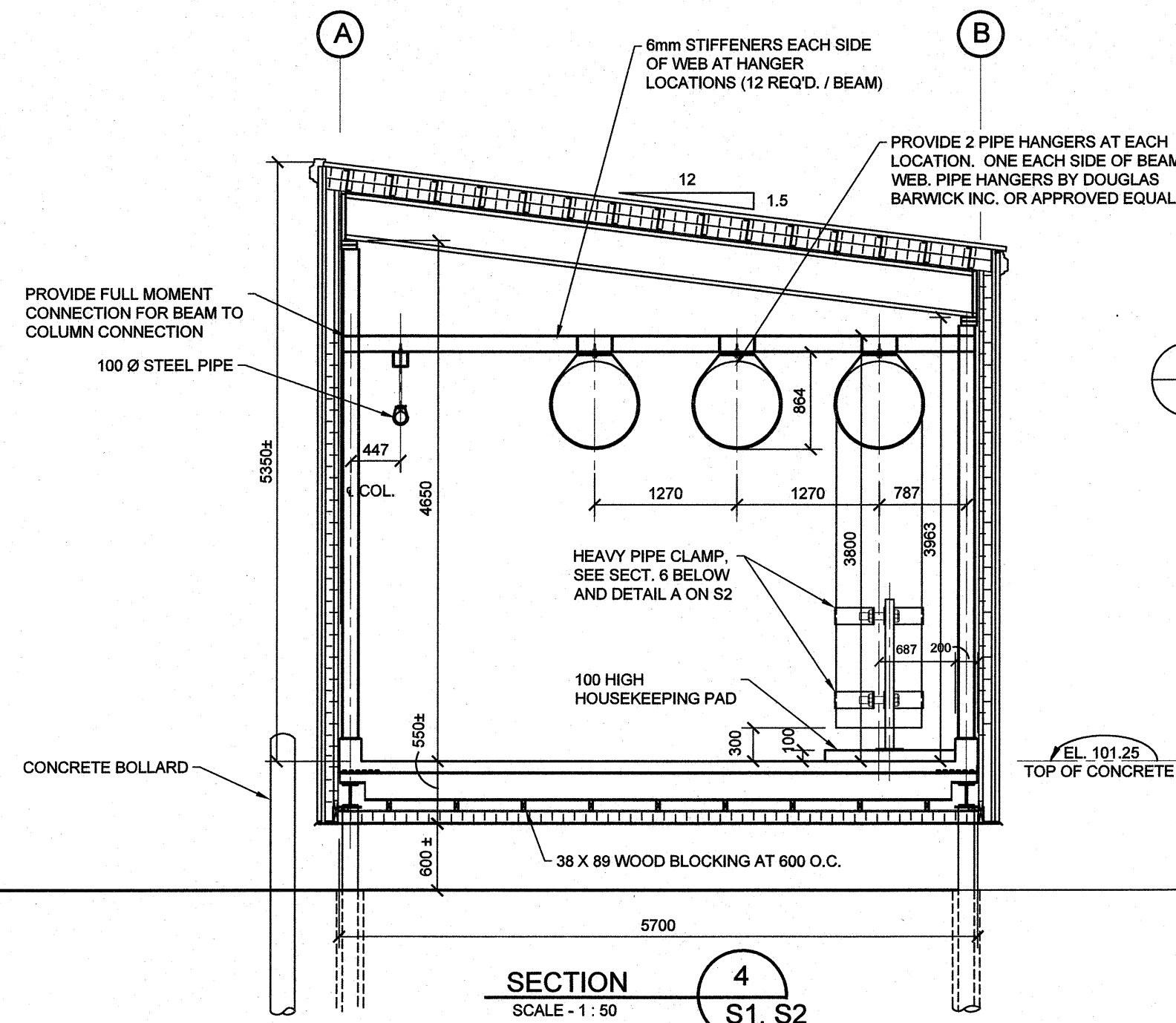
FOR EXACT LOCATIONS AND SIZE OF CONCRETE PAD REFER TO MECHANICAL AND ELECTRICAL EQUIPMENT SHOP DRAWINGS.

GROUT UNDER EQUIPMENT AS REQUIRED  
HKS HOUSEKEEPING SLAB

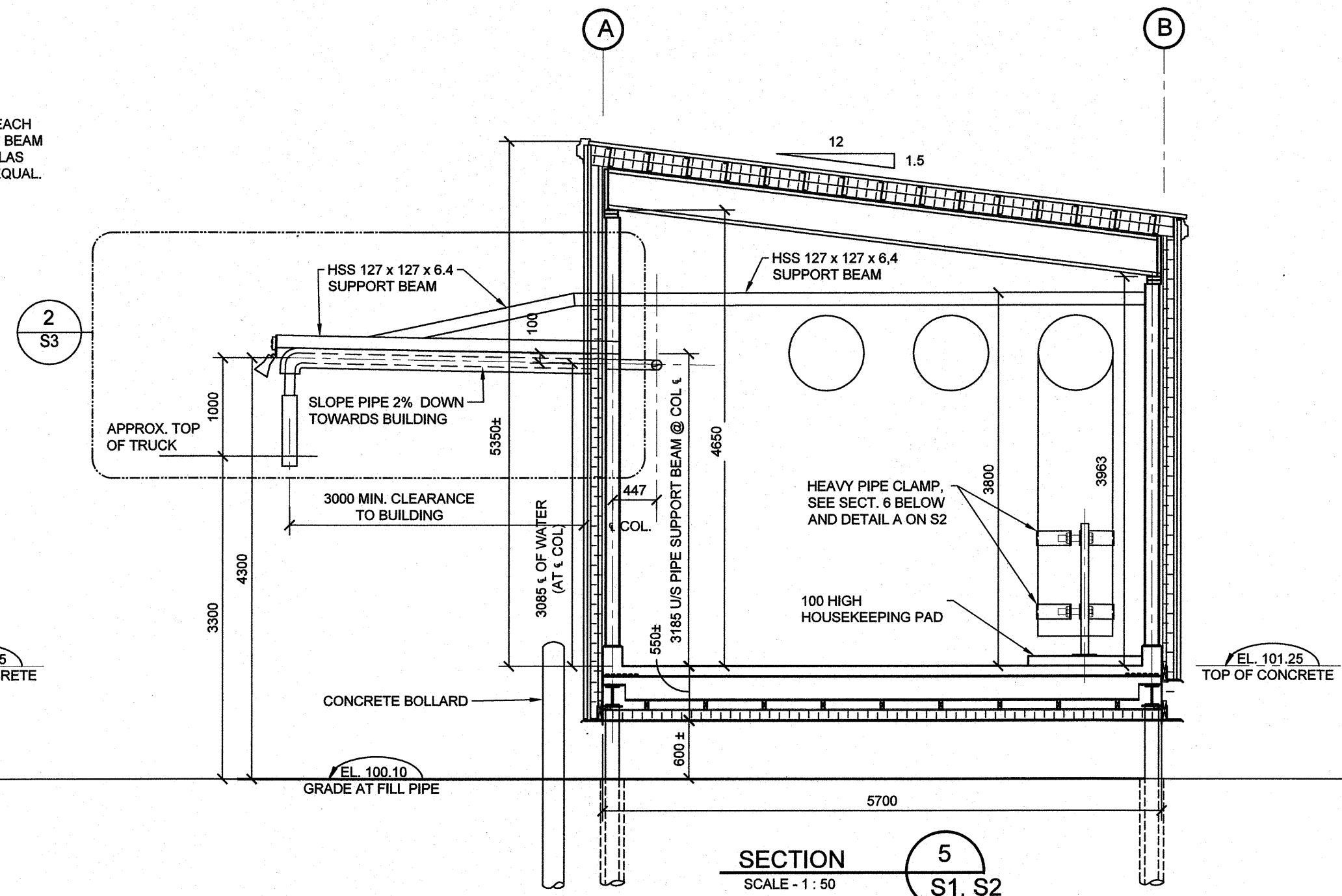
**TYPICAL HOUSEKEEPING SLAB (HKS)**  
REQUIRED UNDER ALL FLOOR MOUNTED EQUIPMENT OR PEDESTALS



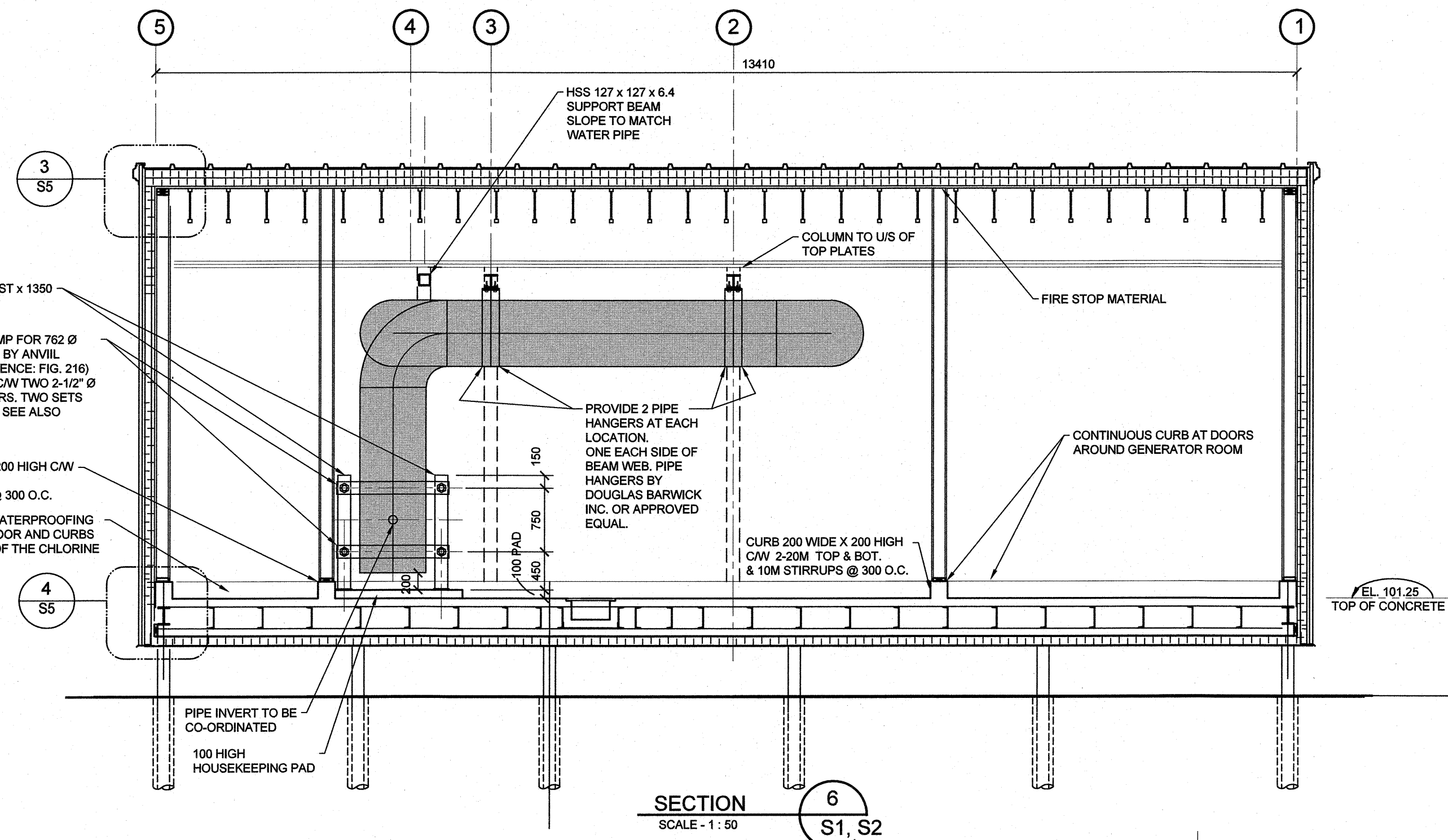
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SCALE - 1:10  
S1, S2



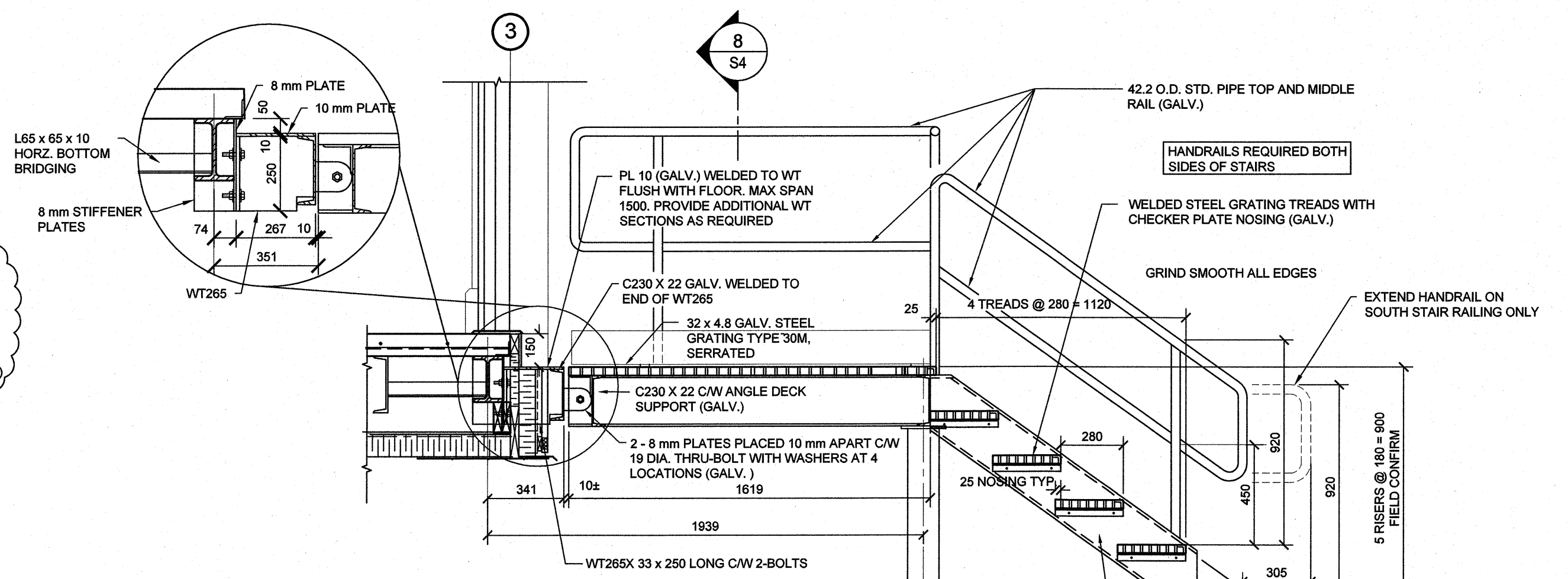
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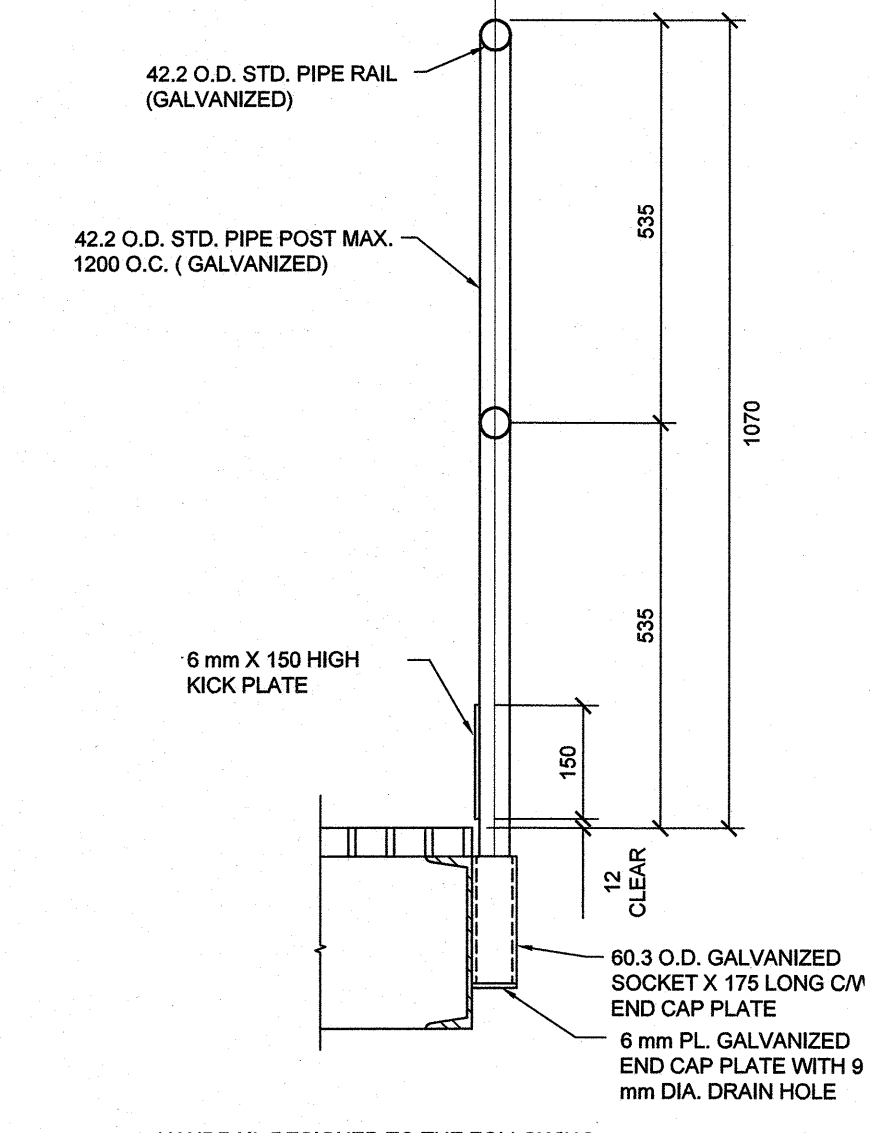
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S1, S2



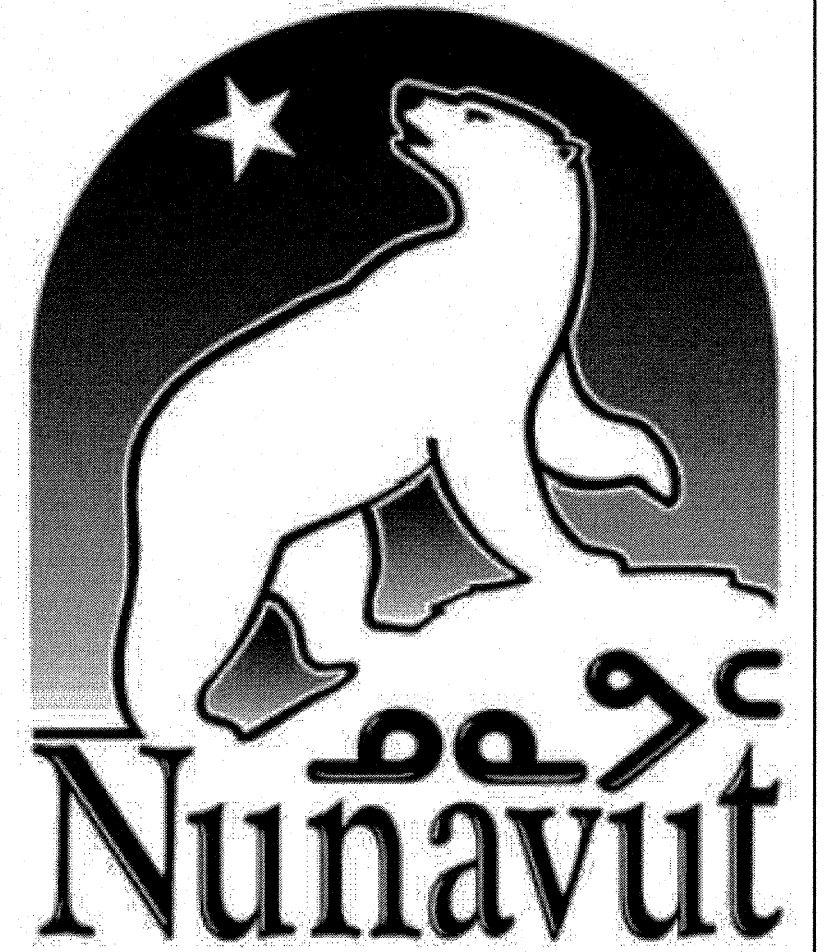
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SCALE - 1:50  
S1, S2



SECTION 7  
SCALE - 1:20  
S1, S2



SECTION 8  
SCALE - 1:10  
S4



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PERMIT OF PRACTICE  
EXP SERVICES INC.

Signature

*John A. Baker*

Date

2016/05/20

PERMIT NUMBER: P483

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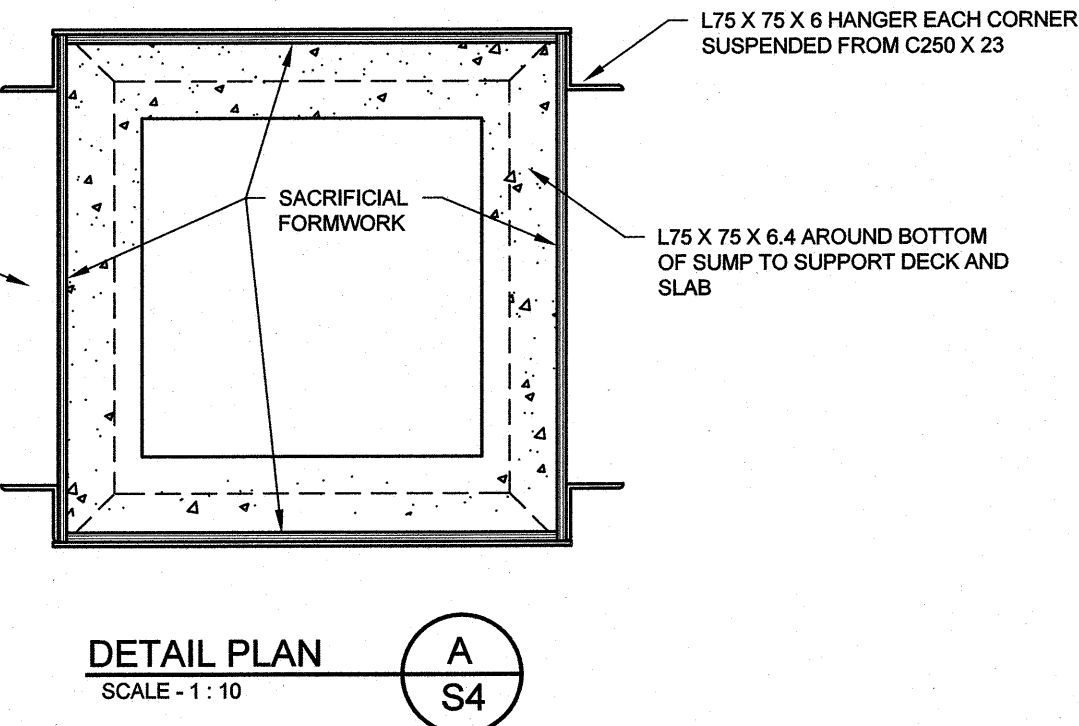
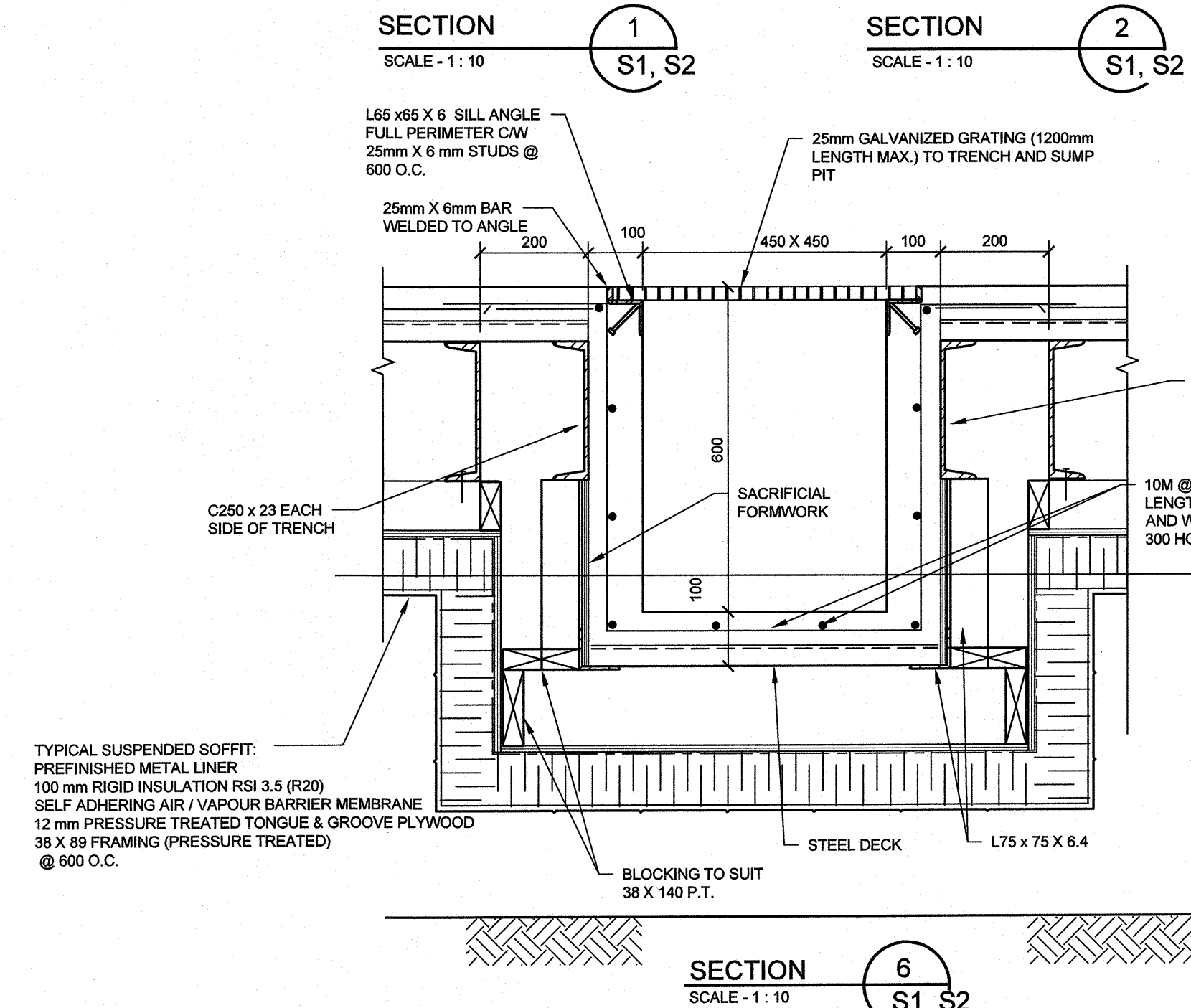
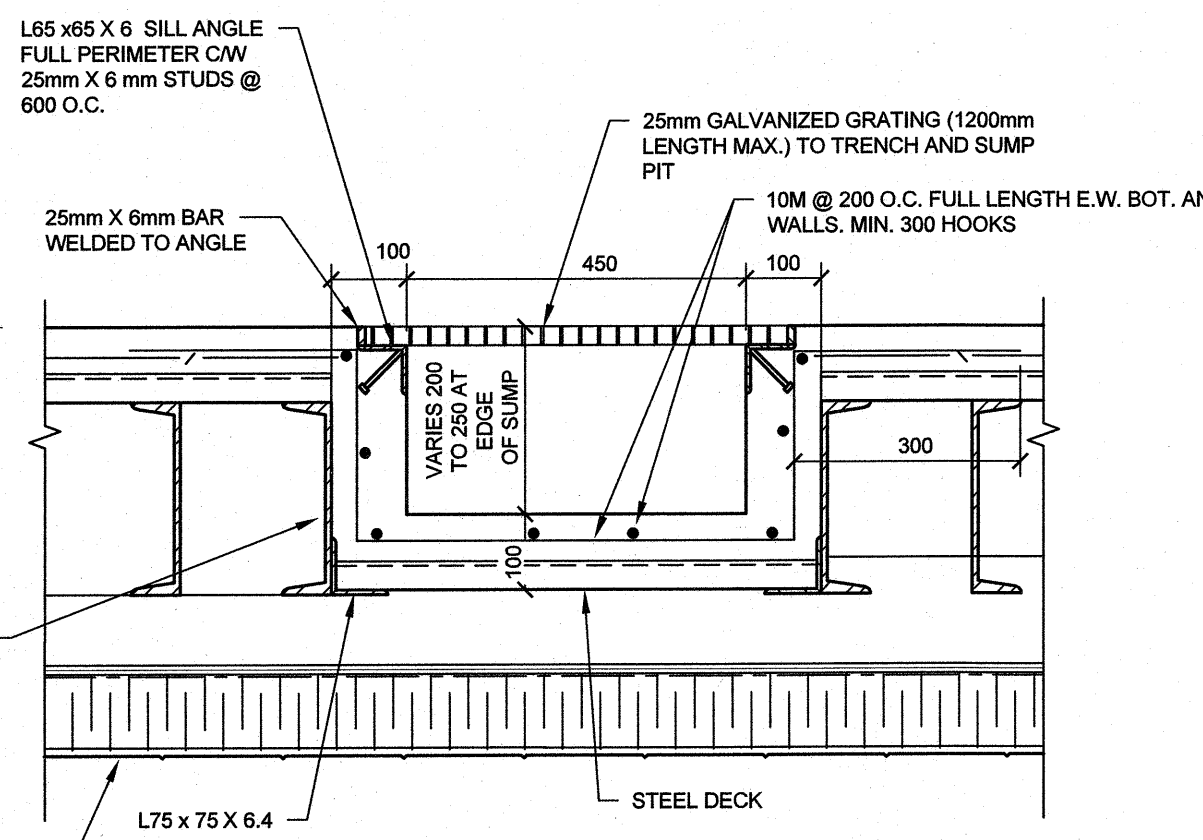
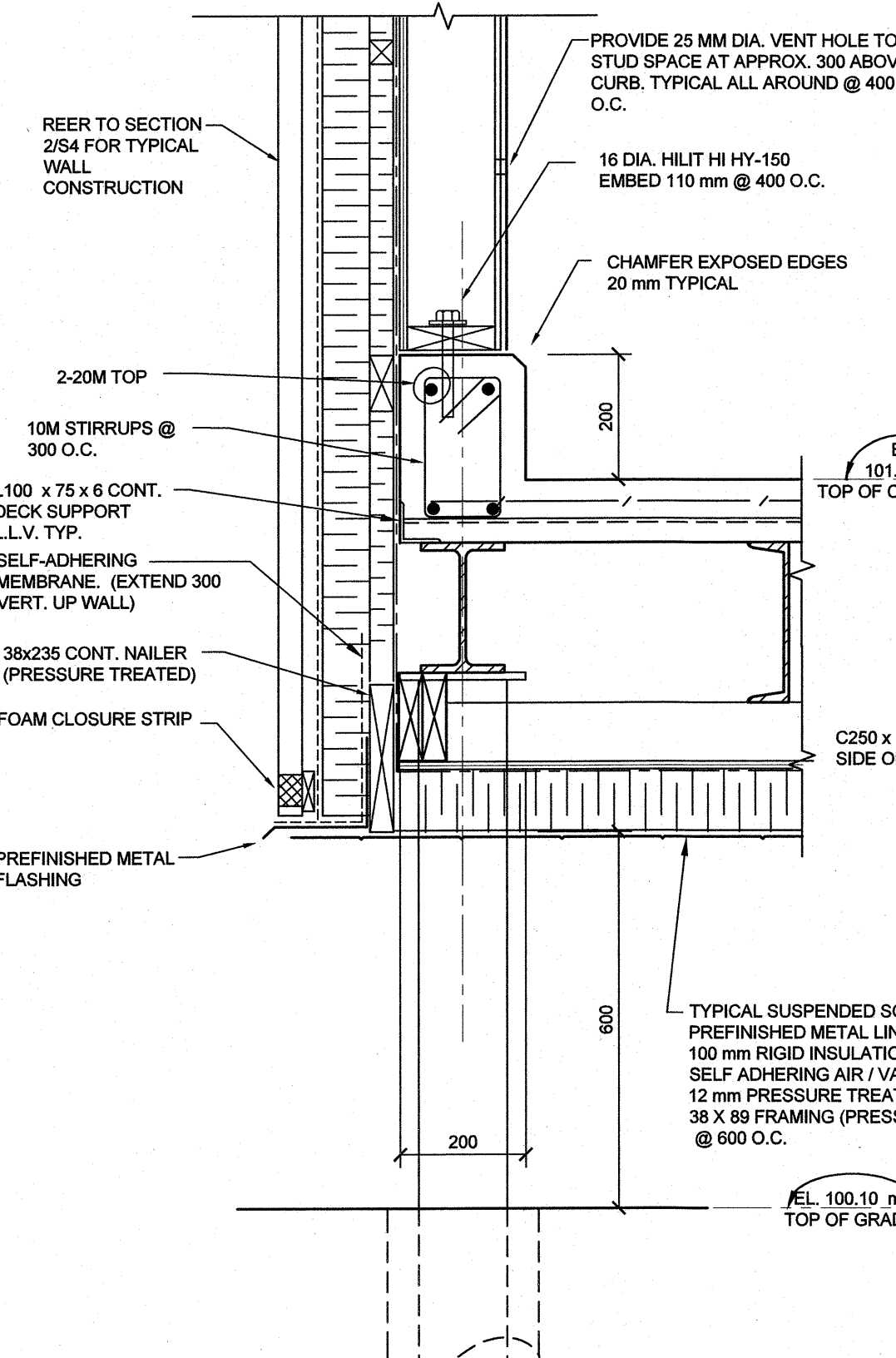
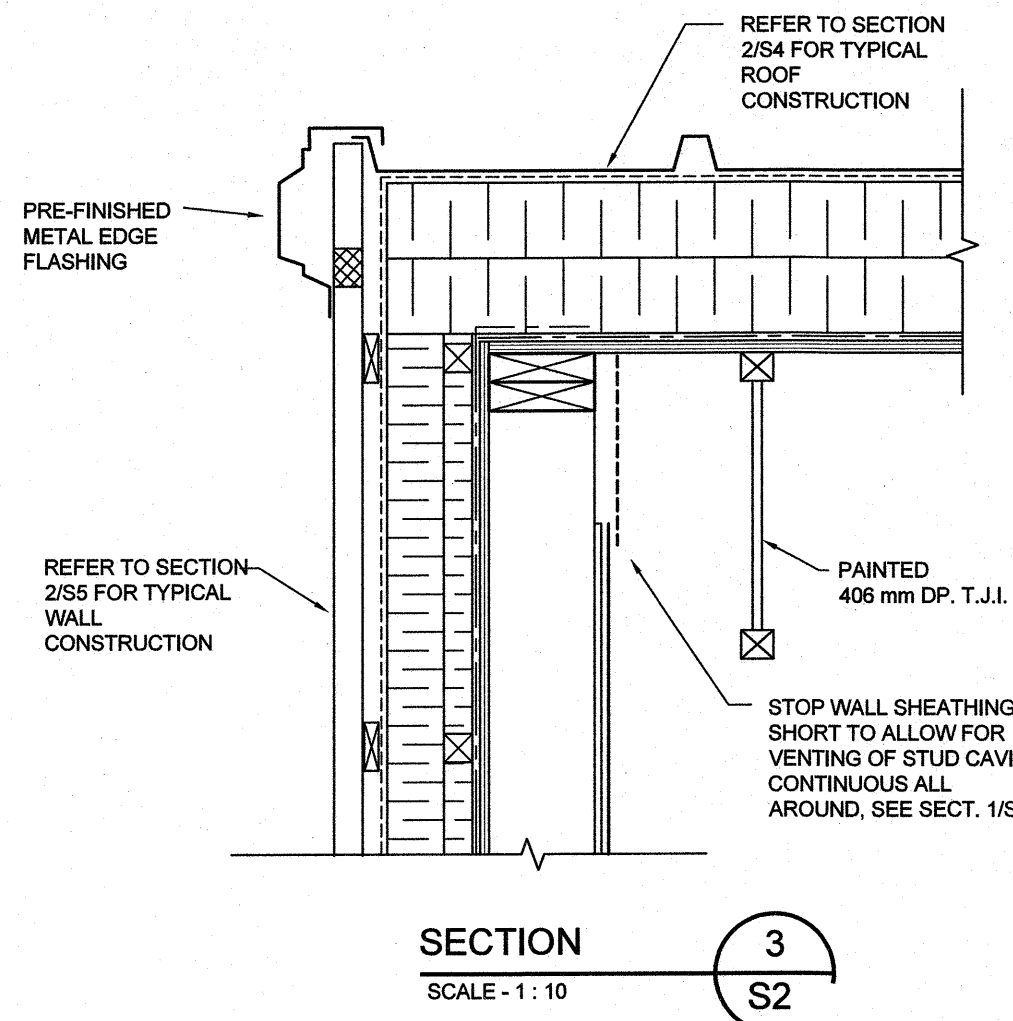
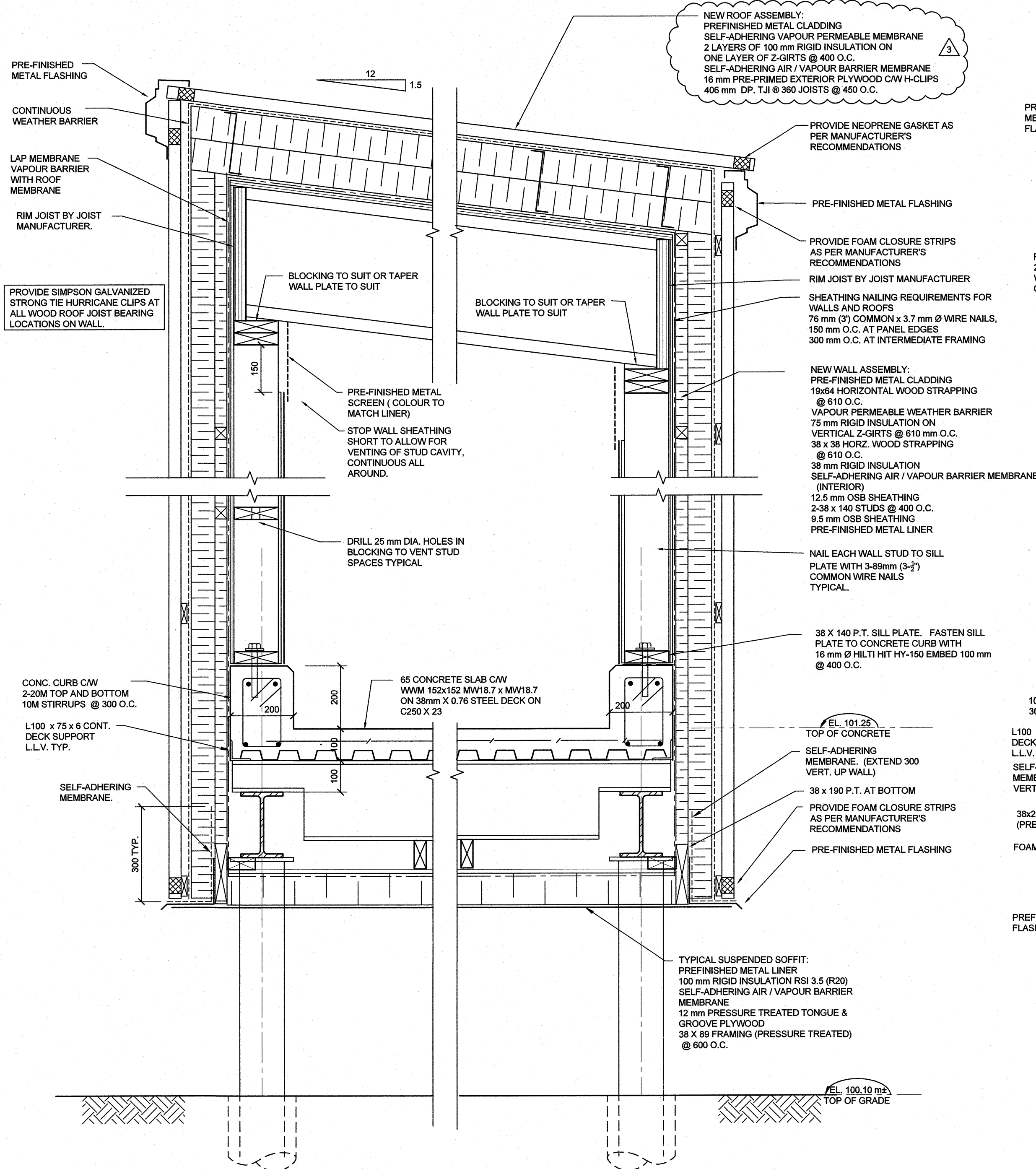
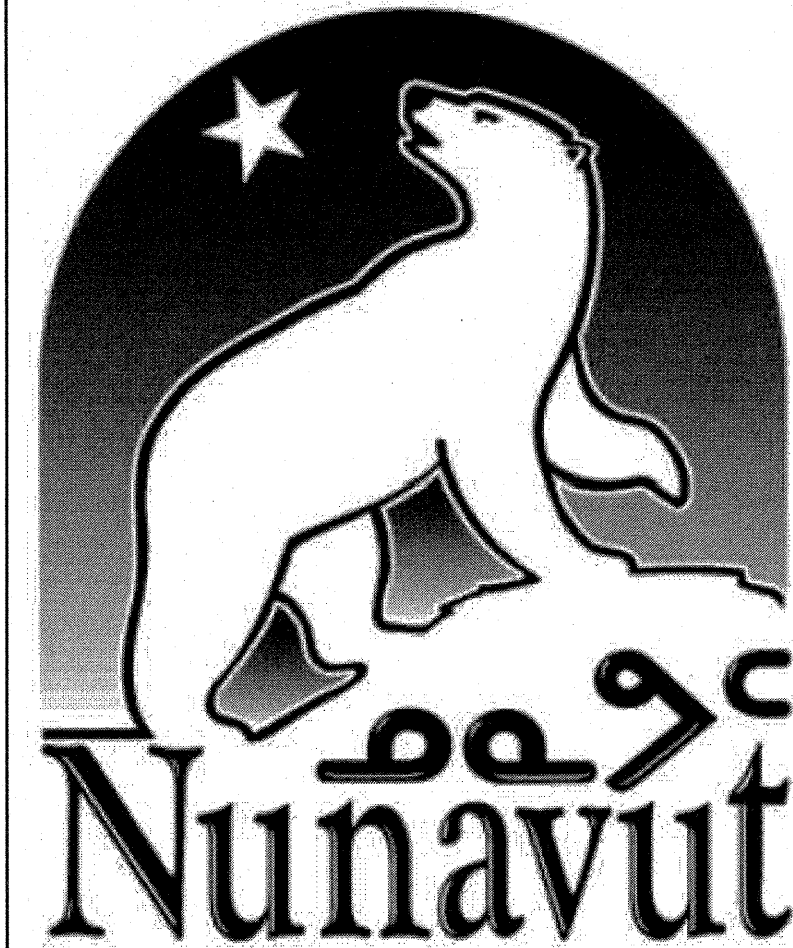
exp Services Inc.	PERMIT OF PRACTICE EXP SERVICES INC.
Signature: <i>K.A. Baker</i>	Signature: <i>K.A. Baker</i>
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CLIENT	GOVERNMENT OF NUNAVUT DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES
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PROJECT	REPULSE BAY, NUNAVUT WATER TRUCK FILL STATION PROJECT: 12-3002
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TITLE	SECTIONS
design by	K.A. BAKER
drawn by	M. NUGENT
checked by	K.A. BAKER
date	MAR. 2013
scale	AS NOTED
project no.	OTT-00208308-A0
drawing no.	S4





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1	ISSUED FOR TENDER	11/12/2014	M.N.	K.A.B.

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Signature: *K.A. Baker*

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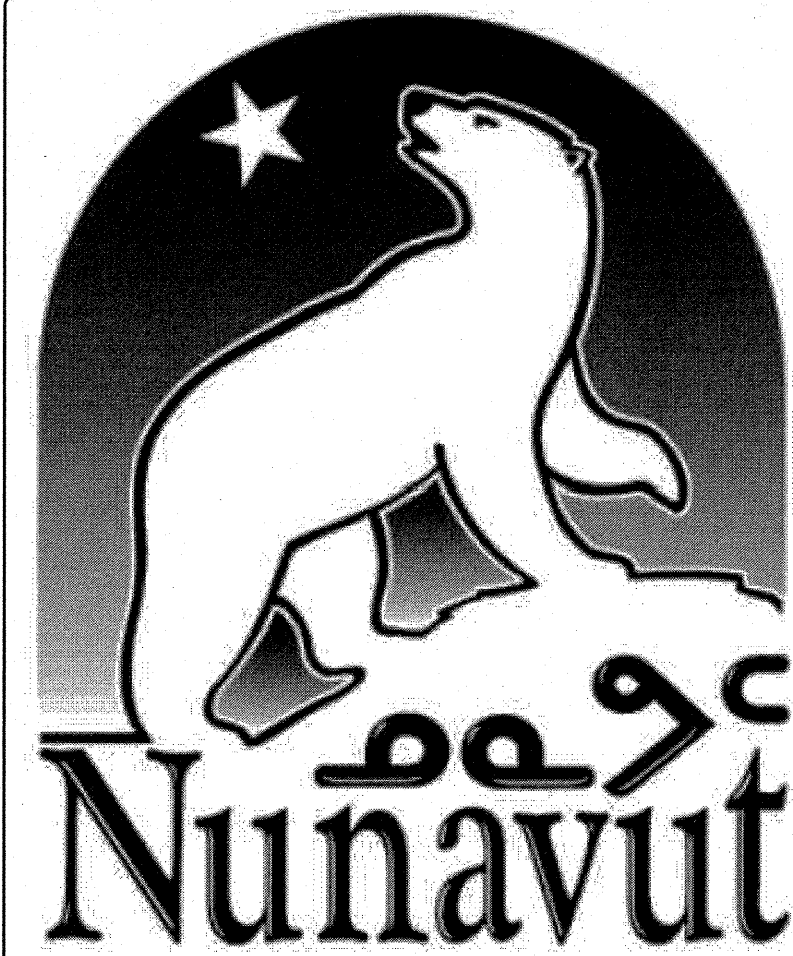
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CLIENT: GOVERNMENT OF NUNAVUT  
DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

PROJECT: REPULSE BAY, NUNAVUT  
WATER TRUCK FILL STATION  
PROJECT: 12-3002

SECTIONS	
design by	K.A. BAKER
drawn by	M. NUGENT
checked by	K.A. BAKER
date	MAR. 2013
scale	AS NOTED
project no.	OTT-00208308-A0
drawing no.	S5





NOTES: GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS WITH FINAL ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ENGINEERS OF ANY ERRORS AND/OR OMISSIONS PRIOR TO CONSTRUCTION FOR DIRECTION. DO NOT SCALE THIS DRAWING.

No.	DESCRIPTION	DATE	BY	APP'D
3	ISSUED FOR CONSTRUCTION	20/05/2016	M.N.	K.A.B.
2	REISSUED FOR TENDER	18/11/2015	M.N.	K.A.B.
1	ISSUED FOR TENDER	11/12/2014	M.N.	K.A.B.

REVISIONS				

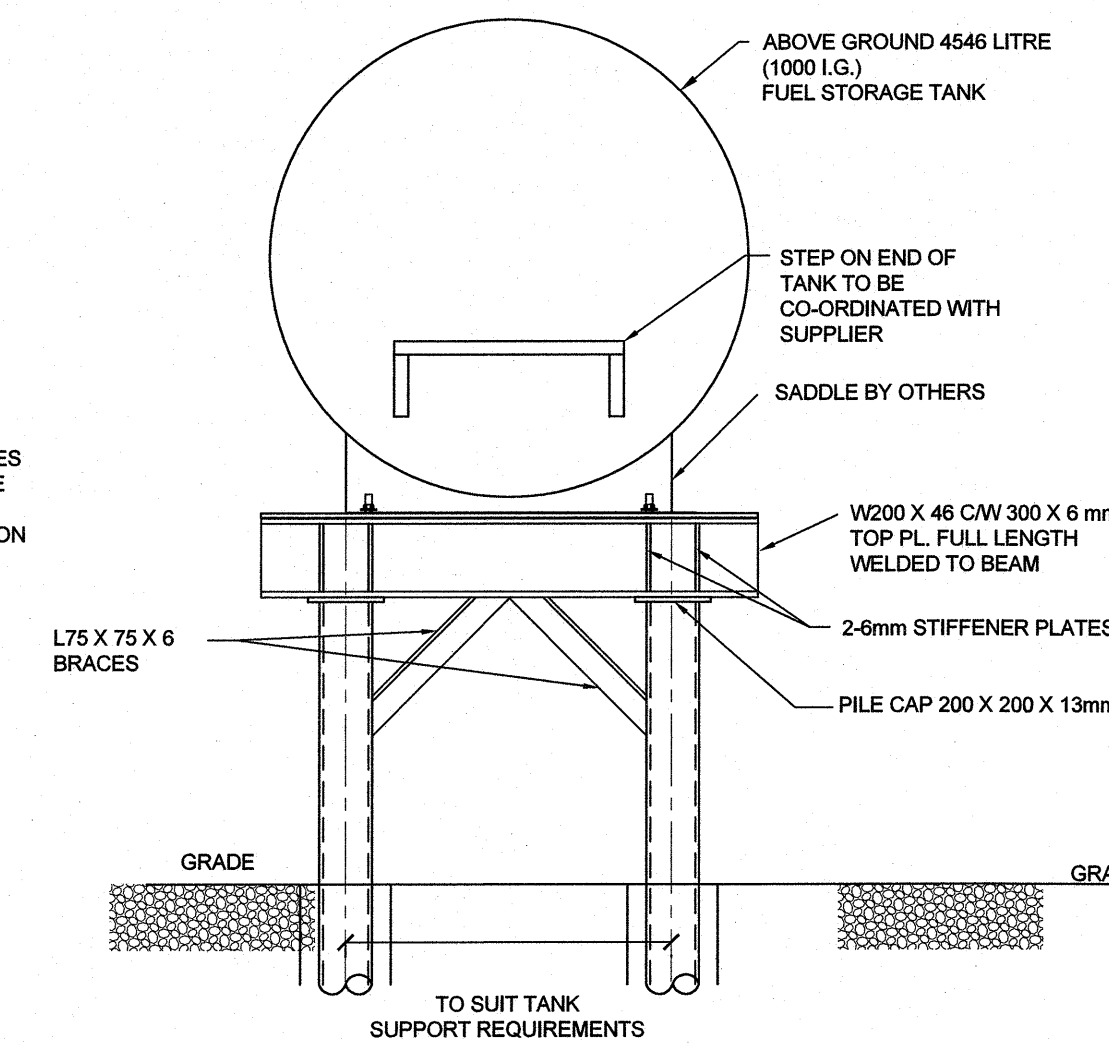
exp Services Inc.  
 C-11, 813, 698, 1899 | C-11, 813, 225, 737  
 2050 Quaker Lane Drive, Suite 100  
 Ottawa, ON K2B 8P6  
 Canada  
 www.exp.com

PERMIT OF PRACTICE  
 EXP SERVICES INC.  
 Signature: *K.A. Baker*  
 Date: 2016/05/20  
 PERMIT NUMBER: P483  
 PNU Association of Professional  
 Engineers and Geoscientists

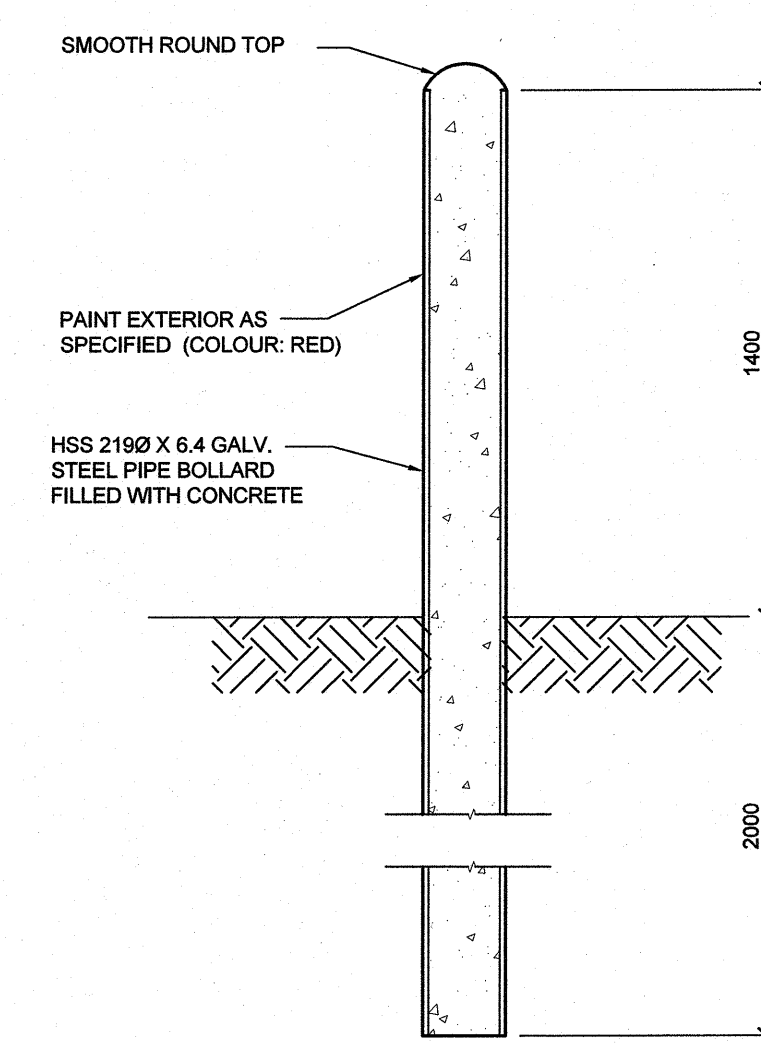
CLIENT  
**GOVERNMENT OF NUNAVUT**  
 DEPARTMENT OF COMMUNITY  
 AND GOVERNMENT SERVICES

PROJECT  
**REPULSE BAY, NUNAVUT**  
 WATER TRUCK FILL STATION  
 PROJECT: 12-3002

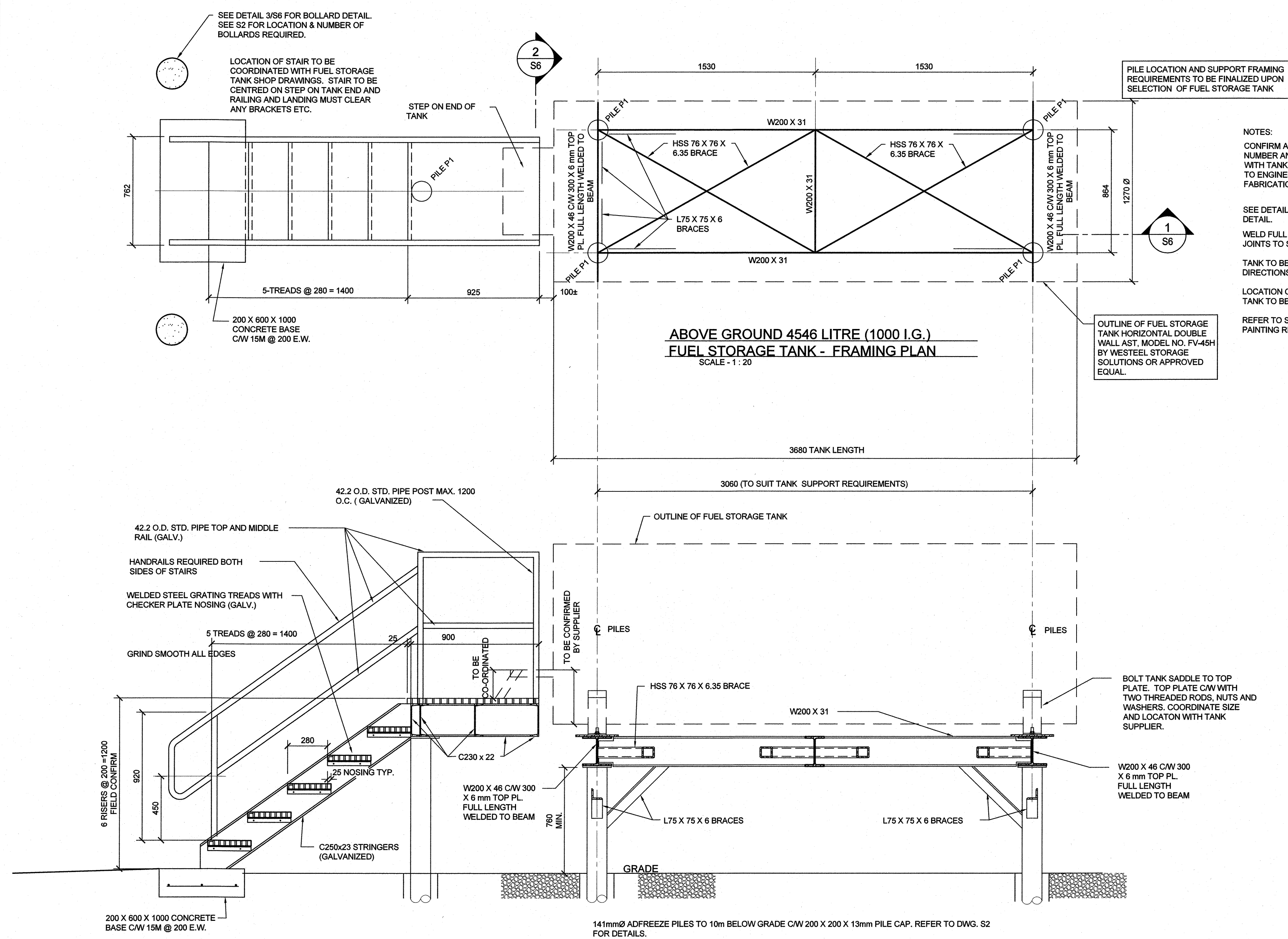
TITLE		
<b>FUEL STORAGE TANK PLAN AND SECTIONS</b>		
design by	K.A. BAKER	project
drawn by	M. NUGENT	OTT-00208308-A0
checked by	K.A. BAKER	drawing no.
date	MAR. 2013	S6
scale	AS NOTED	



SECTION 2 S6  
 SCALE - 1 : 20



TYPICAL BOLLARD DETAIL 3 S2, S6  
 SCALE - 1 : 20



SECTION 1 S6  
 SCALE - 1 : 20

design by	K.A. BAKER	project	OTT-00208308-A0
drawn by	M. NUGENT	drawing no.	S6
checked by	K.A. BAKER		
date	MAR. 2013		
scale	AS NOTED		