

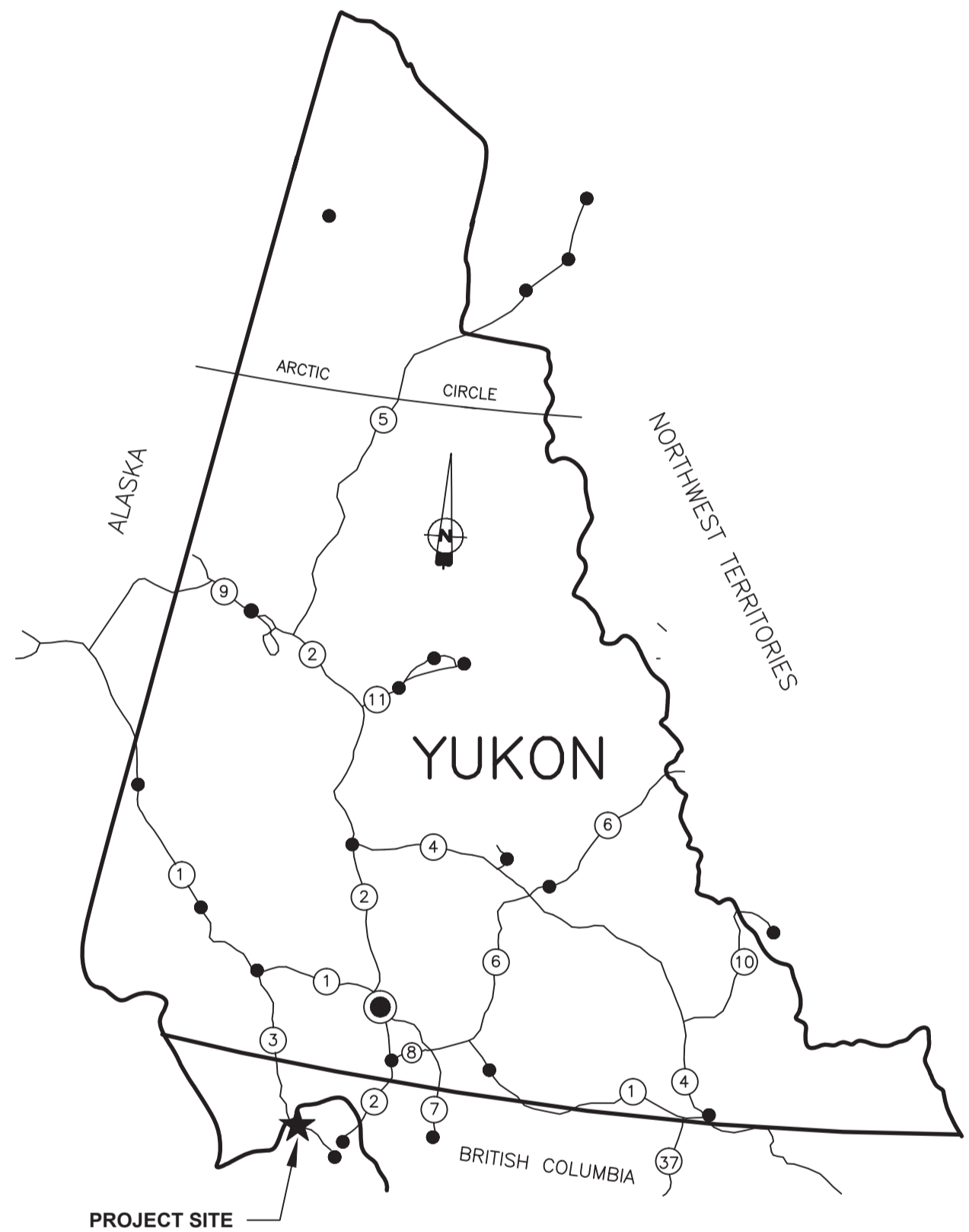
PLEASANT CAMP, BRITISH COLUMBIA, PORT OF ENTRY TENDER A - SITE SERVICES & SITE SERVICES BUILDING



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ISSUED FOR TENDER, REVISION 0
 FEBRUARY 2, 2015
 PWGSC Project Number: R.071363.001
 Stantec Project Number: 144901928

Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	15/02/02

Client/client

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

**PLEASANT CAMP PORT OF ENTRY
TENDER A
SITE SERVICES & SITE SERVICES BUILDING**

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Designed by/Concept par

Drawn by/Dessine par

PWGSC Project Manager/Administrateur de Projets TPSSC

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Gestionnaire régionale, Services d'architectural et de génie, TPSSC

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COVER SHEET

Project No./No. du projet R.071363.001	Sheet/Feuille G001	Revision no./La Révision no. 0
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OF

BUILDING CODE SUMMARY ANALYSIS

BUILDING CLASSIFICATION

SERVICES BUILDING, PLEASANT CAMP

Major Occupancy	Part 9 - Group F, Division 3 (Low-Hazard Industrial) Table 9.10.2.1
Building Height	One Storey
Sprinklered	No
Building Area	110.2 sm
Streets Facing	1
Construction	Combustible

FLOOR AREAS

SERVICES BUILDING, PLEASANT CAMP

Room	Area (sm)
Water Treatment	42.4
Electrical	26.5
Generator	25.8
Mechanical	15.5
Total Gross Area	110.2

OCCUPANCY LOAD CALCULATION (3.1.17)

Pleasant Camp, Site Services Building			
Floor/Type Use	Floor Area (sm)	Area /person (sm)	Occupant Load (persons)
Service rooms	110.2	46	3
Grand Total Occupant Load:			3

(NBCC – Table 3.1.17.1)

* Note: This is considered an unoccupied Services building.

3.4.2.1 HEALTH REQUIREMENTS

• Water Closets: No water closets are required as this is strictly a services building and considered unoccupied. Washrooms are available elsewhere on the site

3.4.2.2 FIRE SEPARATIONS

- This building has multiple services so FRR separations between rooms apply (Section 3.3).
- Emergency Power requires a two-hour FRR separation from other occupancies. (Sentence 3.2.7.9) This has been provided for the Generator room.
- A one-hour FRR separation is required at service rooms with fuel-fired appliances. (Sentence 9.10.10.4) This has been provided in the Mechanical Room.
- A one-hour FRR separation is required at electrical service room. (Sentence 3.6.2.1) This has been provided in the Electrical Room.
- FRR Separation wall to be a continuous, smoke-tight barrier that abuts a ceiling or roof. (Sentence 9.10.9.2)
- Penetrations of Fire Separations to be sealed and tightly fitted to maintain the integrity of the separation. (Section 9.10.9.6)

3.4.2.3 FLAME SPREAD LIMITS

• All interior walls and ceilings to have a surface flame-spread rating of not more than 150. (Sentence 9.10.17.1) Doors to have a flame-spread rating of not more than 200.

3.4.2.4 SOUND CONTROL

• Sound control not required for this occupancy. (Section 9.11)

3.4.2.5 EXITS FROM FLOOR AREAS

- Number of Exits: Individual doors provided at each room, which exit to the exterior
- Exit Signs: Exit signs are not required. [Sentence 9.9.11.3 (1)]

3.4.2.6 BARRIER-FREE DESIGN

• Barrier-Free design not required because this is a non-occupied services building.

3.4.2.7 ROOF SPACES, VENTING

• Roof venting required, unless shown to be unnecessary. (Section 9.19)

3.4.2.8 CANOPY STRUCTURE

• Canopy over fuel tank to be noncombustible construction (steel structure and columns) c/w exposed structure. Steel structure to be separate from adjacent combustible construction Services building.

3.4.2.9 ENERGY EFFICIENCY

• Compliance to 9.36. does NOT apply to this building because the combined floor area is less than 300m² (NBCC 9.36.1.3 (2b))

CONSTRUCTION ASSEMBLIES

INTERIOR WALL ASSEMBLIES

1. ALL FIRE AND SOUND RATED PARTITIONS ARE TO EXTEND TO THE UNDERSIDE OF STRUCTURE. INSTALL FIRE STOPPING AT PARTITION TOPS.
2. ALL STEEL STUD PARTITIONS TO HAVE MID-HEIGHT CONTINUOUS BRIDGING CHANNEL C/W BRIDGING ANGLE CLIP
3. LOCATE CONTROL JOINTS AT 9.144M O.C. ON 1524 MODULE OR ABOVE DOOR FRAME CORNER WHEREVER POSSIBLE
4. IN SOUND CONTROL ASSEMBLIES, ACOUSTICALLY SEAL PERIPHERY OF WALL AND ALL PENETRATIONS AIRTIGHT
5. IN FIRE RATED ASSEMBLIES, PROVIDE APPROVED FIRE STOPS AT ALL PENETRATIONS.

GW1 - GENERATOR ROOM - WATER TREATMENT ROOM

SOUND CONTROL - STC 58
2.0HR FRR - NBC ASSEMBLY W6b - TABLE 9.10.3.1

1 LAYER 16mm ABUSE RESISTANT TYPE X GWB - PRIMED AND PAINTED
1 LAYER 16mm TYPE X GWB
38x140 WOOD STUDS @ 400 O.C.
89mm THICK ABSORPTIVE MATERIAL
RESILIENT METAL CHANNELS @ 600 O.C.
1 LAYER 16mm TYPE X GWB
1 LAYER 16mm ABUSE RESISTANT TYPE X GWB - PRIMED AND PAINTED

GW2 - GENERATOR ROOM - ELECTRICAL ROOM

SOUND CONTROL - STC 58
2.0HR FRR - NBC ASSEMBLY W6b - TABLE 9.10.3.1

1 LAYER 16mm ABUSE RESISTANT TYPE X GWB - PRIMED AND PAINTED
1 LAYER 16mm TYPE X GWB
RESILIENT METAL CHANNELS @ 600 O.C.
38x140 WOOD STUDS @ 400 O.C.
89mm THICK ABSORPTIVE MATERIAL
1 LAYER 16mm TYPE X GWB
1 LAYER 16mm TYPE X GWB
19mm PLYWOOD - PRIMED AND PAINTED

GW3 - MECHANICAL ROOM - ELECTRICAL ROOM

1.0 FRR - NBC ASSEMBLY W1d - TABLE 9.10.3.1

1 LAYER 16mm ABUSE RESISTANT TYPE X GWB - PRIMED AND PAINTED
38x140 STUDS @ 400 O.C.
1 LAYER 16mm ABUSE RESISTANT TYPE X GWB
1 LAYER 19mm PLYWOOD - PRIMED AND PAINTED (ELECTRICAL ROOM SIDE)

GW4 - WATER TREATMENT ROOM - CHLORINE ROOM

NO FRR

PEEL AND STICK AIR VAPOUR BARRIER (WATER ROOM SIDE)
1 LAYER 12.7mm PLYWOOD
38x89 STUDS @ 400 O.C.
1 LAYER 12.7mm G1S PLYWOOD - PRIMED AND PAINTED

GW5 - NOT USED

GW6 - MECHANICAL ROOM - WATER TREATMENT ROOM - ELECTRICAL ROOM

1.0 FRR - NBC ASSEMBLY W1d - TABLE 9.10.3.1

1 LAYER 16mm ABUSE RESISTANT TYPE X GWB - PRIMED AND PAINTED
38x140 STUDS @ 400 O.C.
1 LAYER 16mm ABUSE RESISTANT TYPE X GWB
PEEL AND STICK AIR VAPOUR BARRIER (WATER TREATMENT ROOM SIDE)

GW7 - MECHANICAL ROOM - FURRING WALL

1 LAYER 16mm ABUSE RESISTANT TYPE X GWB - PRIMED AND PAINTED
38x140 STUDS @ 400 O.C.

EXTERIOR WALL ASSEMBLY

EW1

HORIZONTAL CEMENTITIOUS PLANK SIDING (EXISTING MAINTENANCE BUILDING FINISH TO MATCH)
19x89 STRAPPING
WEATHER BARRIER
206mm S.I.P. c/w S.I.P. TAPE TO SEAL JOINTS
19x89 STRAPPING
INTERIOR MATERIAL AND FINISH TO MATCH ADJACENT INTERIOR WALL ASSEMBLIES IN EACH ROOM

* NOTE: 19x89 STRAPPING TO BE REPLACED WITH RESILIENT CHANNEL ON INTERIOR OF GENERATOR ROOM
* NOTE: PEEL AND STICK MEMBRANE TO BE APPLIED FROM 150mm ABOVE BASE OF S.I.P. OVER TOP OF FOOTING. REFER TO SECTIONS AND DETAILS.

EW2

HORIZONTAL CEMENTITIOUS PLANK SIDING (TO MATCH NEW SITE SERVICE BUILDING)
WEATHER BARRIER
13mm PWF PLYWOOD
38x89 PWF STUDS @ 400 O.C.
13mm PWF PLYWOOD

ROOF ASSEMBLY

R1

GALVALUME METAL ROOFING
ICE AND WATER SHIELD
19mm PLYWOOD SHEATHING
PRE-MANUFACTURED WOOD ROOF TRUSSES (SLOPE TO MATCH EXISTING)
206mm S.I.P. TO U/S OF TRUSSES - REFER TO STRUCTURAL FOR FASTENING REQUIREMENTS
PRIME AND PAINT AREAS OF EXPOSED S.I.P.

R2

GALVALUME METAL ROOFING
GALVANIZED METAL DECKING
STRUCTURAL STEEL FRAMING

FLOOR ASSEMBLY

F1

150mm CONCRETE SLAB ON GRADE - FINISH PER SPECIFICATIONS
6 mil POLY VAPOUR BARRIER
100mm HI DENSITY RIGID INSULATION
COMPACTED GRANULAR FILL
- REFER TO STRUCTURAL

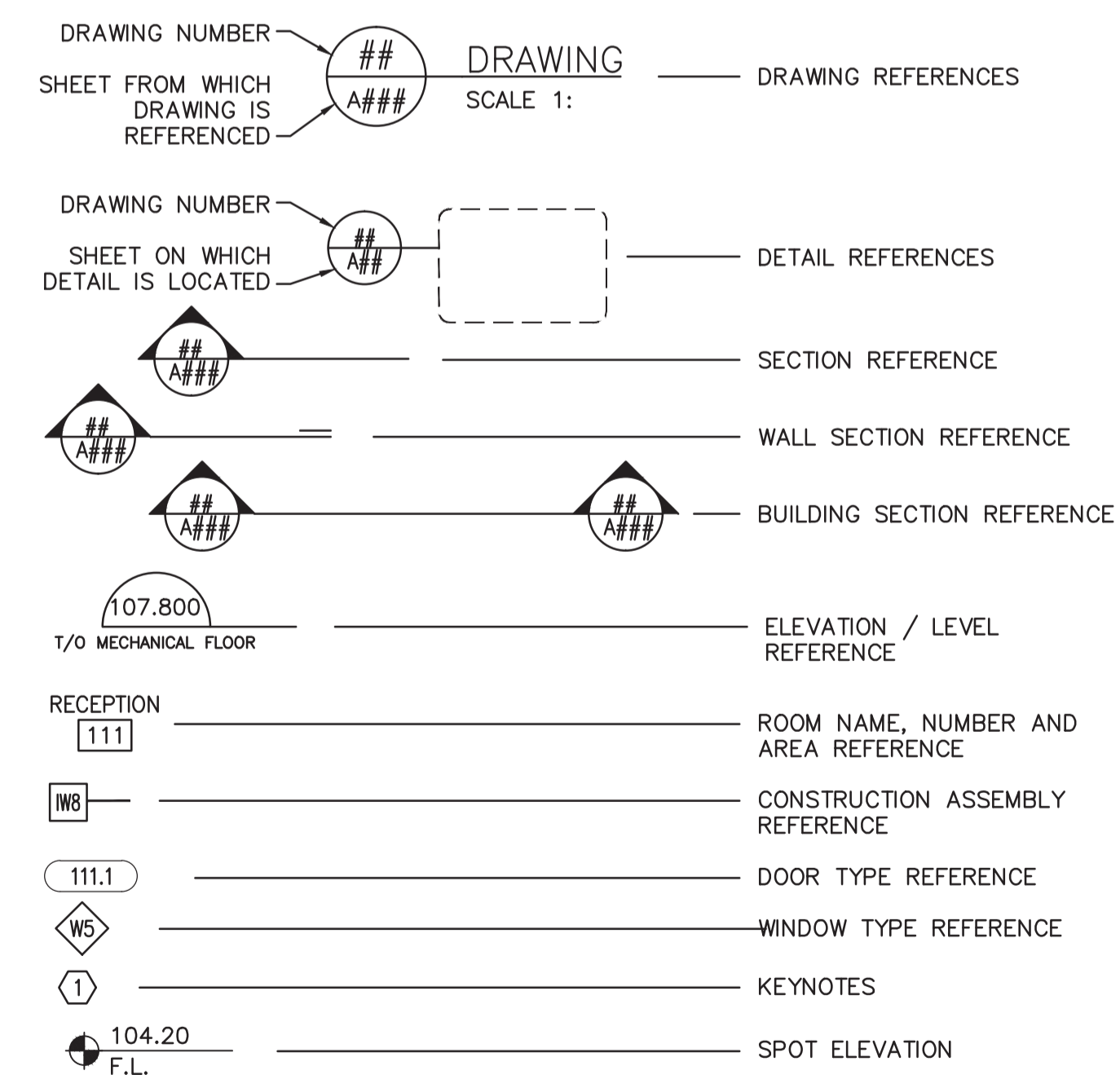
F2

150mm CONCRETE SLAB ON GRADE - FINISH PER SPECIFICATIONS
COMPACTED GRANULAR FILL
- REFER TO STRUCTURAL

GENERAL NOTES:

1. ARCHITECTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
2. ALL CONSTRUCTION MUST MEET OR EXCEED THE REQUIREMENTS OF THE NATIONAL BUILDING CODE 2010.
3. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH GOOD BUILDING PRACTICES. CONTRACTOR TO CAREFULLY INSPECT THE SITE OF WORK AND BE FULLY INFORMED OF CONDITIONS AND LIMITATIONS.
4. CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE DESIGN TEAM PRIOR TO PROCEEDING.
5. CONFIRM ALL ELEVATIONS (INCLUDING SLABS, LANDSCAPING, ETC.) ON SITE. REPORT ANY VARIANCES TO CONSULTANT.
6. PROVIDE MINIMUM 2% SLOPE AWAY FROM THE BUILDING FOR ALL EXTERIOR GRADING U.N.O. OR DICTATED BY EXIST. SITE CONDITIONS. CONFIRM WITH CONSULTANT.
7. WALLS NOT LOCATED BY DIMENSIONS ARE ASSUMED TO BE CENTERED ON GRID LINES. ALL DIMENSIONS ARE FROM CENTRELINE OF STUD U.N.O.
8. DOOR AND WINDOW SIZES ARE NOMINAL. CONTRACTOR TO CONSULT SUPPLIER FOR EXACT SIZES AND ROUGH OPENINGS.
9. INSTALL ALL DOORS AND FRAMES WITH A CLEAR DIMENSION OF 100MM IN STUD WALLS BETWEEN THE FRAME AND THE NEAREST ADJACENT WALL UNLESS NOTED OTHERWISE.
10. USE TYPE 'X' GWB ON ALL FIRE-RATED GWB PARTITIONS. REFER TO CODE INFORMATION.
11. WHERE MECHANICAL DUCTS AND ELECTRICAL CONDUIT PENETRATE FIRE SEPARATIONS OR WALLS WHICH ARE CONSTRUCTED TO U/S OF STRUCTURE, PROVIDE FIRESTOPPING AND SMOKE SEALS AT PENETRATIONS TO MAINTAIN FRR NOTED ON PARTITION TYPES SCHEDULE.
12. PROVIDE ALL FRAMING / BLOCKING AS REQUIRED TO ENSURE PROPER SECUREMENT OF ALL MATERIALS, EQUIPMENT, ACCESSORIES, ETC. PROVIDE BACKING FOR ITEMS NOTED AS - IN CONTRACT (I.C.), NOT IN CONTRACT (N.I.C.), AND OWNER SUPPLIED CONTRACTOR INSTALLED (O.S.). PROVIDE BLOCKING IN STUD PARTITIONS BEHIND ALL WALL-MOUNTED ITEMS. ALSO REFER TO M AND E SERIES DRAWINGS.
13. PROVIDE FLASHING OVER ALL EXTERIOR DOORS AND WINDOWS.
14. MAINTAIN INTEGRITY OF THE VAPOUR / AIR BARRIER MEMBRANE IN THE EXTERIOR WALLS & ROOF STRUCTURE. ALL MEMBRANES ARE TO BE CONTINUOUS & HAVE A MINIMUM OVERLAP OF 200MM AT ALL FLASHINGS, JOINTS, CHANGES IN DIRECTION, DOORS, ETC.
15. PROVIDE CONTINUOUS ROD AND SEALANT AT ALL JUNCTIONS OF DISSIMILAR MATERIALS, CONTROL JOINTS AND OTHER LOCATIONS WHERE INDICATED.
16. ALL MATERIALS TO BE PRIMED AND PAINTED U.N.O.
17. FOR DOOR SCHEDULE, REFER TO DRAWINGS AND SPECIFICATIONS
18. FOR FINISH SCHEDULE, REFER TO DRAWINGS AND SPECIFICATIONS
19. PAINT ALL EXPOSED STRUCTURE AND MECHANICAL DUCTS. REFER TO FINISH SCHEDULE

SYMBOLS LEGEND:

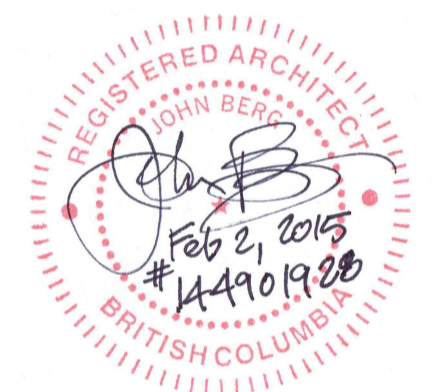


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Revision/Revisión	ISSUED FOR TENDER	15/02/03
Revision/Revisión	Description/Description	Date/Date

Client/client

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

Consultant Signature Only

Designed by/Concept par

Drawn by/Dessine par

PWGSC Project Manager/Administrateur de Projets TPSGC

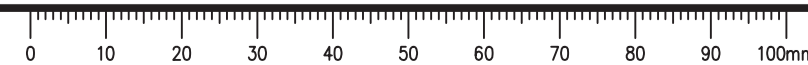
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Drawing title/Titre du dessin

CODE SUMMARY & ASSEMBLIES

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.071363.001	G002	0

OF



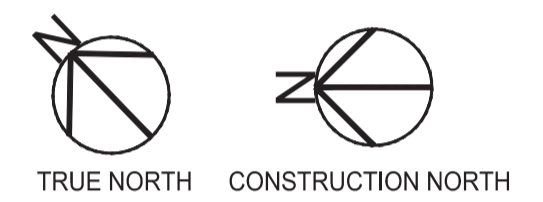


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TENDER A
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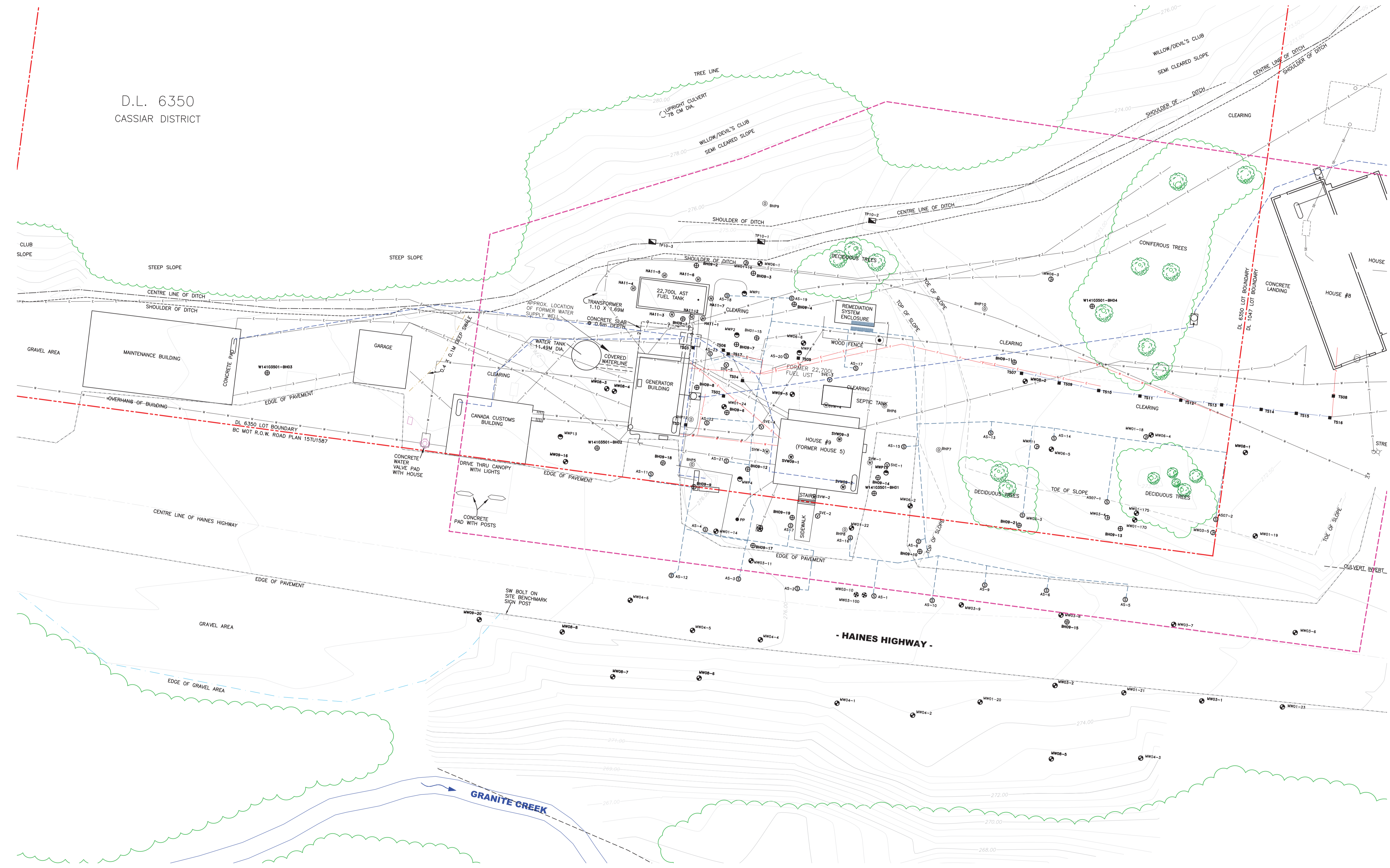
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EXISTING SITE BUILDINGS AND UNDERGROUND SERVICES PLAN

FOR REFERENCE ONLY

Project No./No. du projet R.071363.001	Sheet/Feuille G003 OF	Revision no./ La Révision no. 0
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D.L. 6350
CASSIAR DISTRICT



1 EXISTING SITE PLAN STRUCTURES & U/G SERVICES
G003 1:250





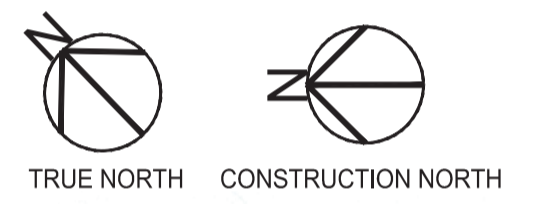
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- LEGEND**
- TO BE DEMOLISHED AS PART OF TENDER A
 - NEW SITE SERVICES BUILDING
 - RAW WATER SUPPLY
 - TREATED WATER SUPPLY
 - COMBINED ELECTRICAL SERVICES
 - FUEL SUPPLY

SEE ALSO MECHANICAL, ELECTRICAL AND FUEL SYSTEMS SITE PLAN FOR INFORMATION.



Revision/Description	Date/Date
0 ISSUES FOR TENDER	15/02/20

CANADA BORDER SERVICES AGENCY

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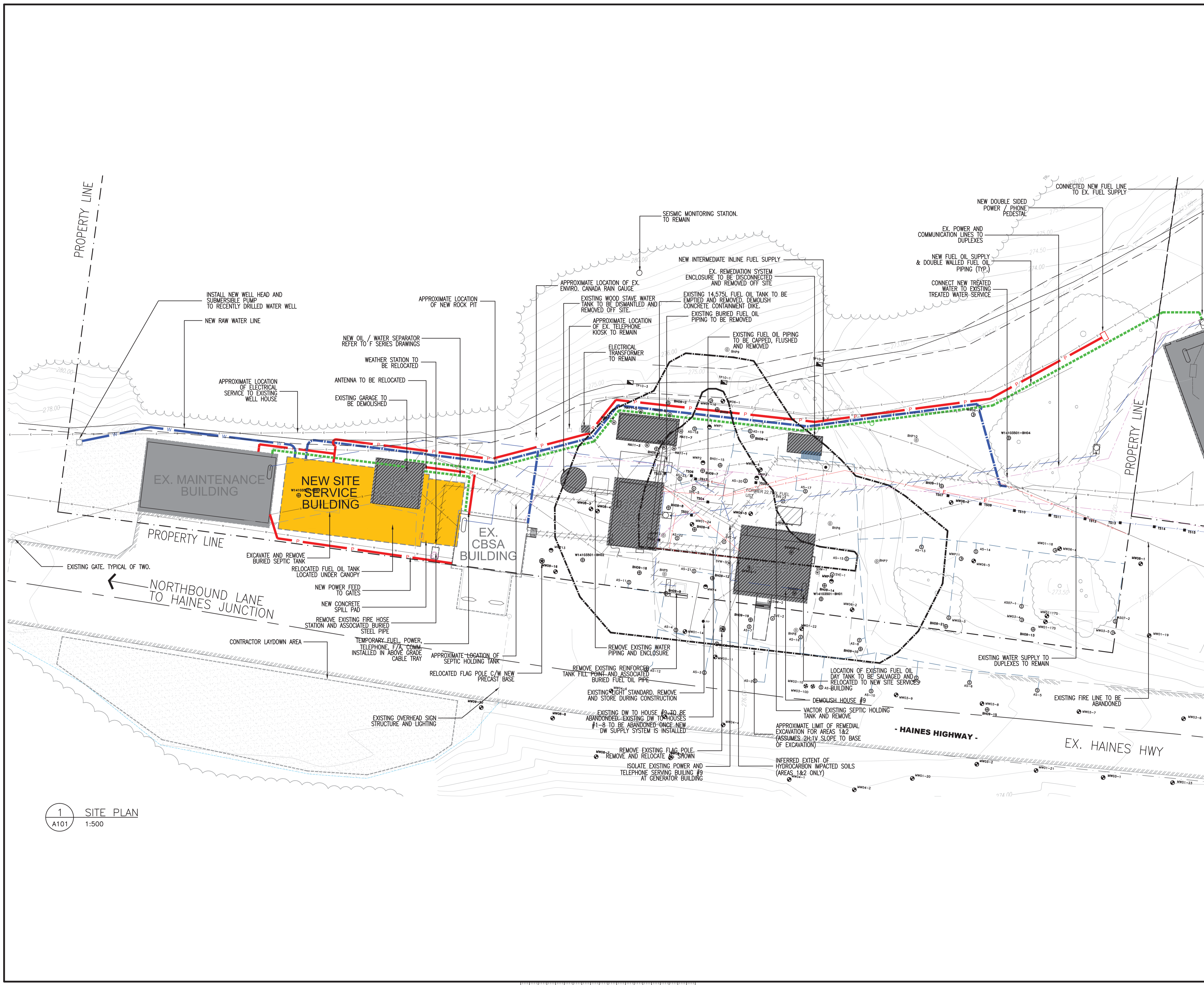
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OVERALL SITE PLAN

Project No./No. du projet R.071363.001	Sheet/Feuille A101 OF	Revision no./La Révision no. 0
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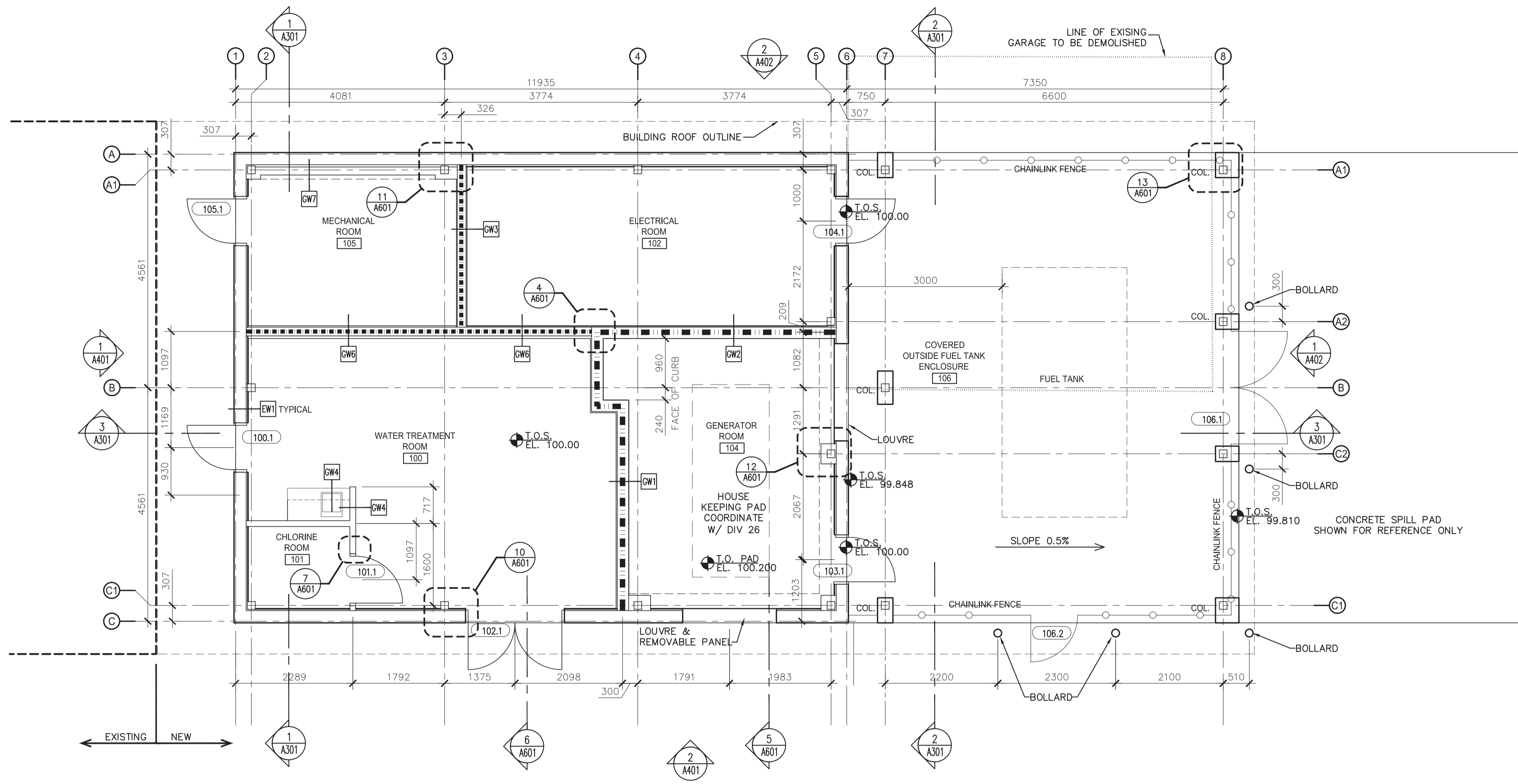
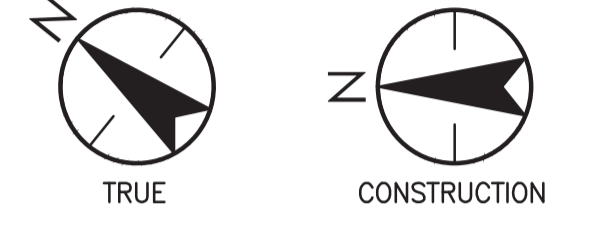


1 SITE PLAN
A101 1:500

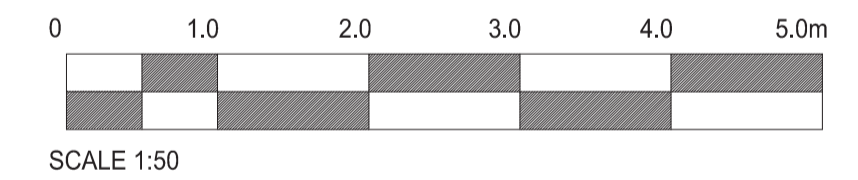


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NOTE: BUILDING WIDTH AND HEIGHT TO MATCH EXISTING MAINTENANCE BUILDING. CONTRACTOR TO COORDINATE AND FIELD VERIFY DIMENSIONS.



LEGEND
 ■■■■■ 1 HR FIRE RATED ASSEMBLY
 ■■■■■ 2 HR FIRE RATED ASSEMBLY

1 FLOOR PLAN
A201 1:50

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	15/02/08

Client/client
CANADA BORDER SERVICES AGENCY

Project title/Titre du projet
PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

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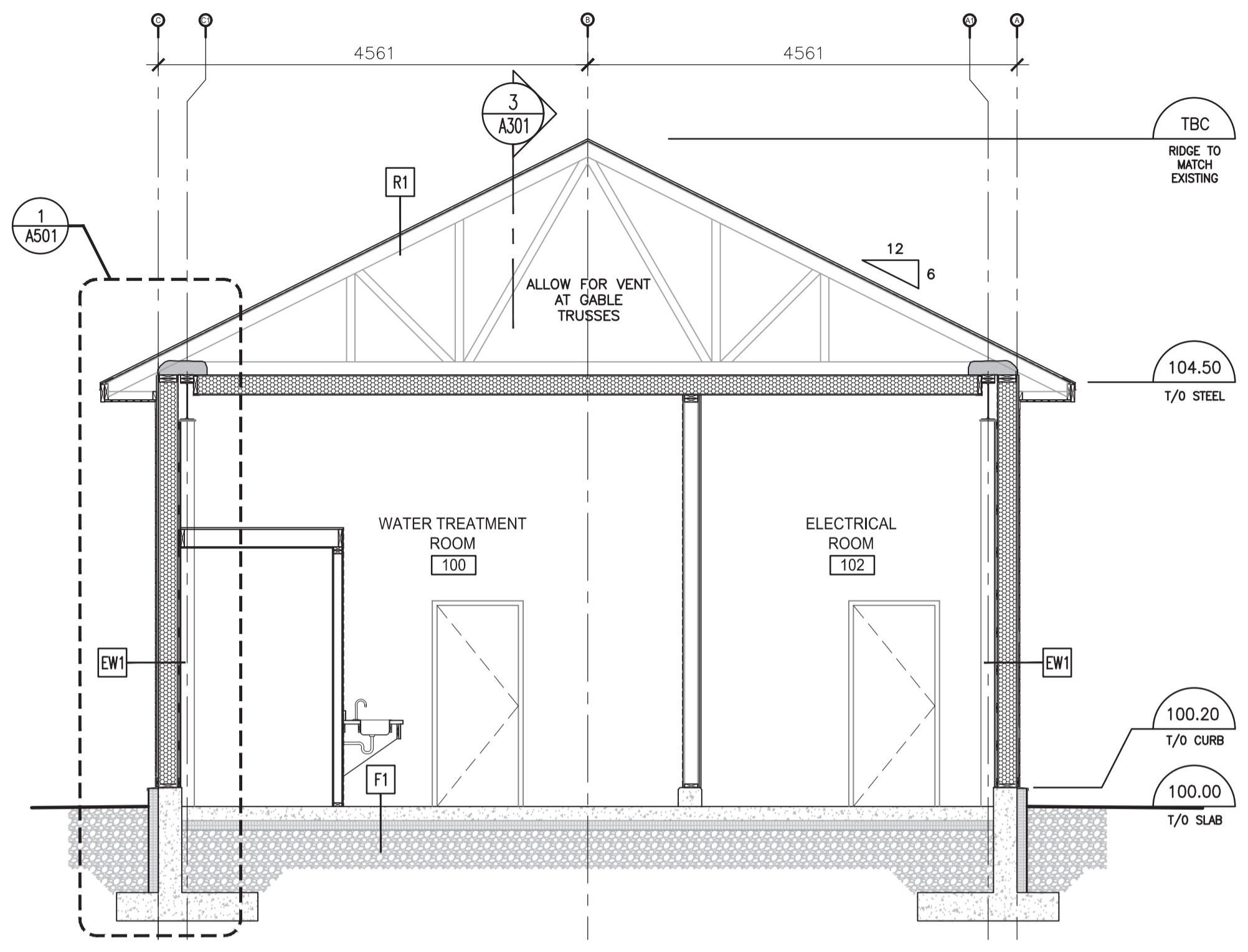
Drawing title/Titre du dessin
SITE SERVICES BUILDING FLOOR PLAN

Project No./No. du projet R.071363.001	Sheet/Feuille A201 OF	Revision no./La Révision no. 0
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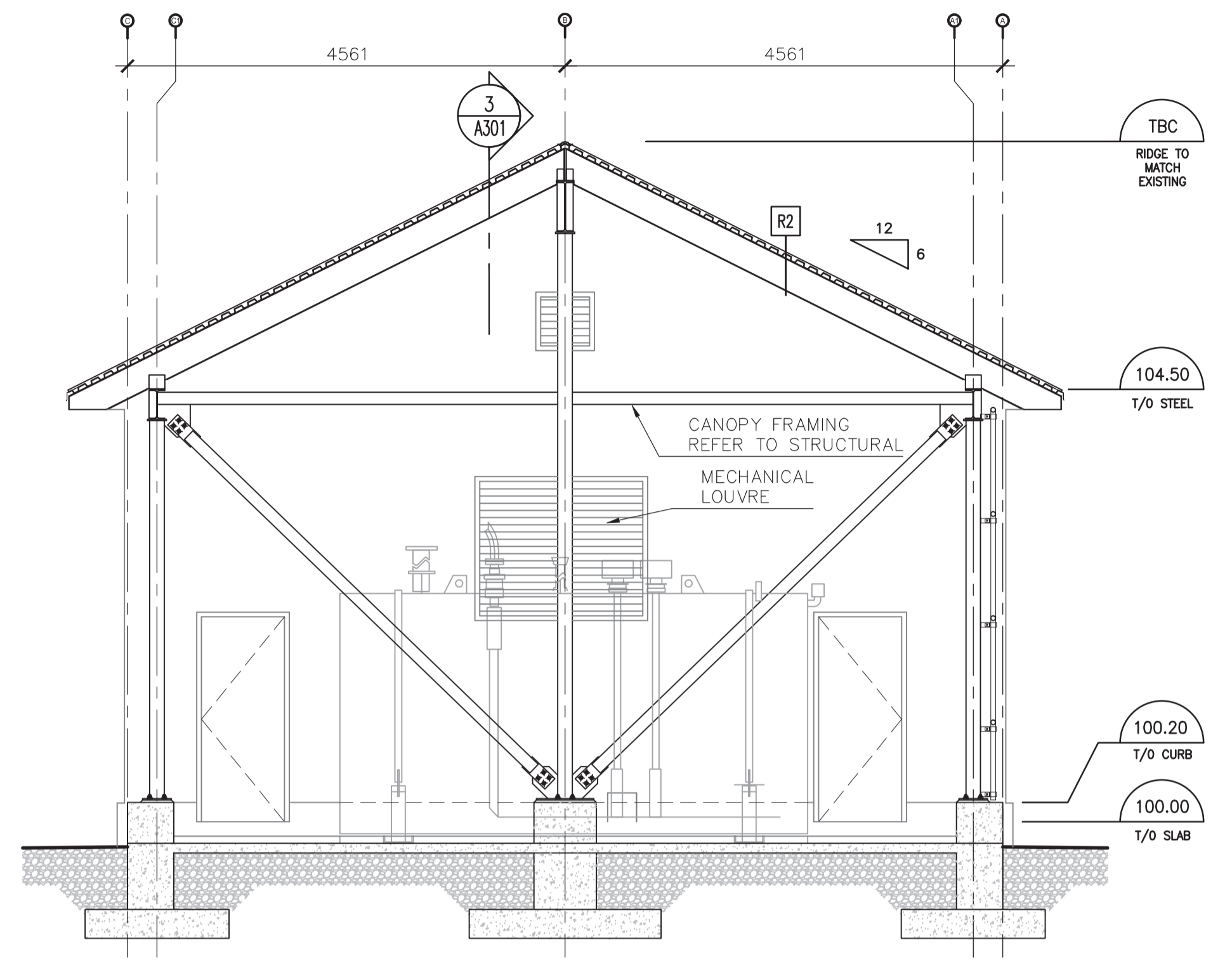


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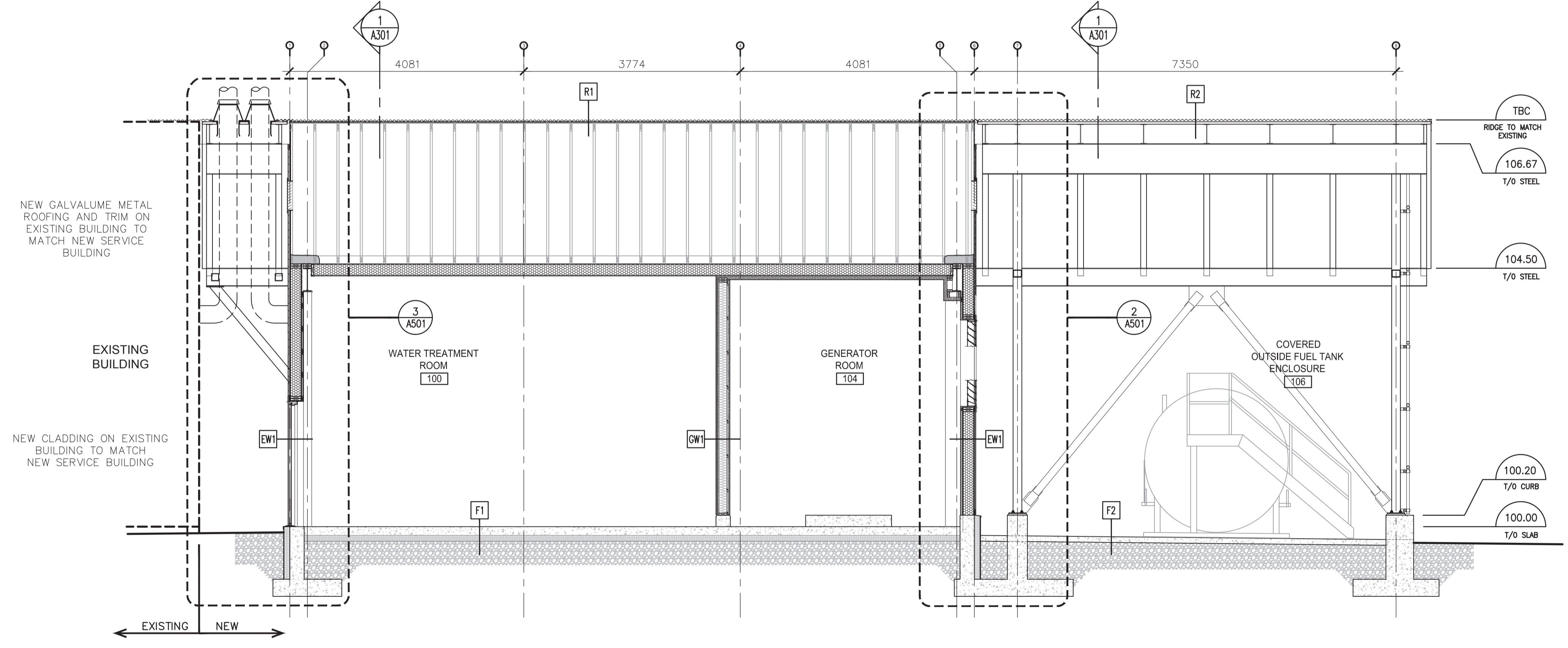
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1 BUILDING SECTION
A301 1:50



2 BUILDING SECTION
A301 1:50



3 BUILDING SECTION
A301 1:50

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CANADA BORDER SERVICES AGENCY

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SITE SERVICES BUILDING BUILDING SECTIONS

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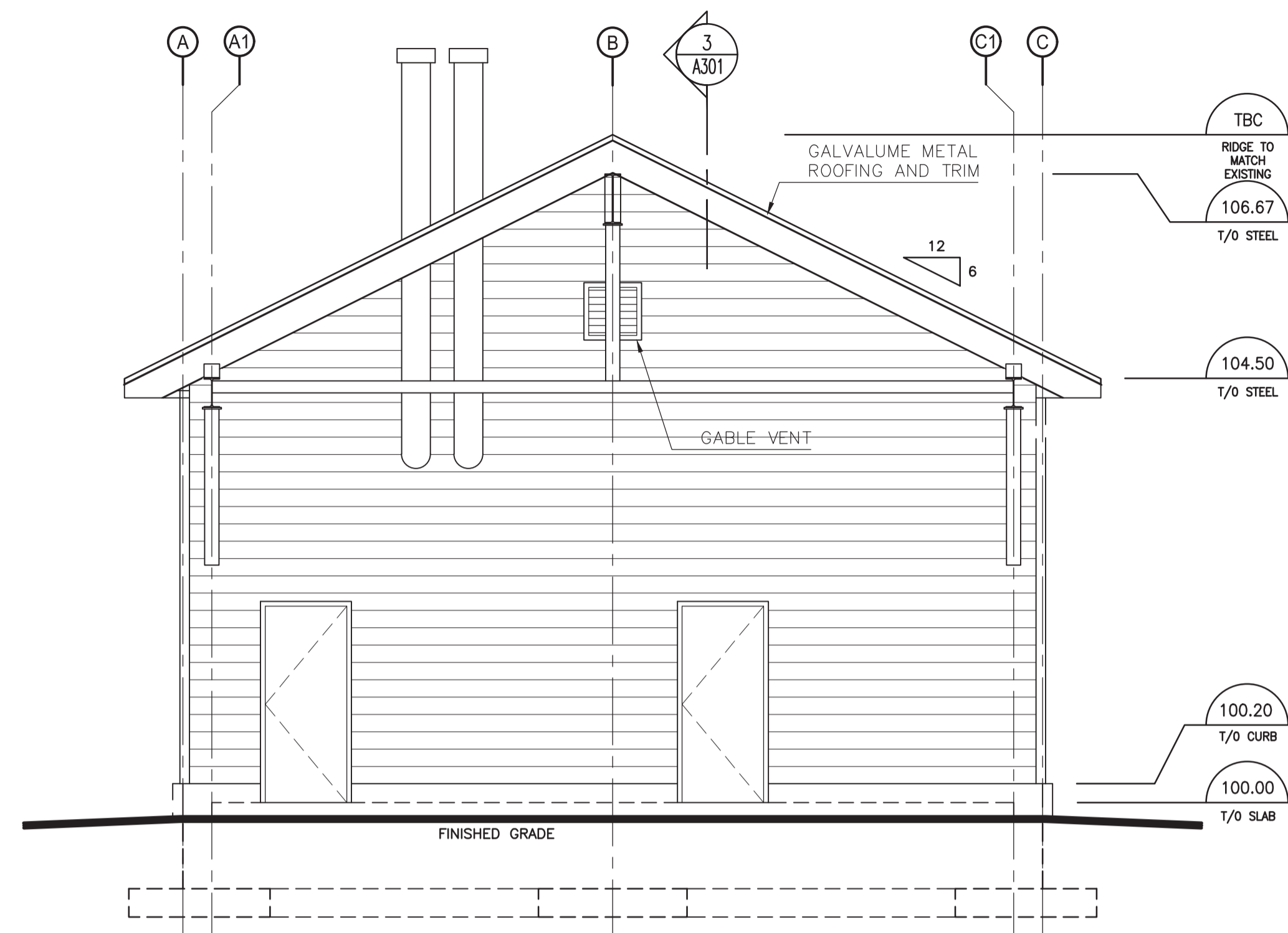
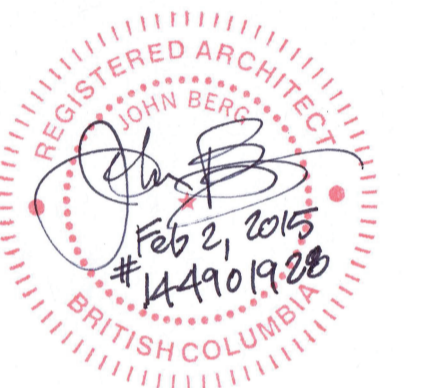




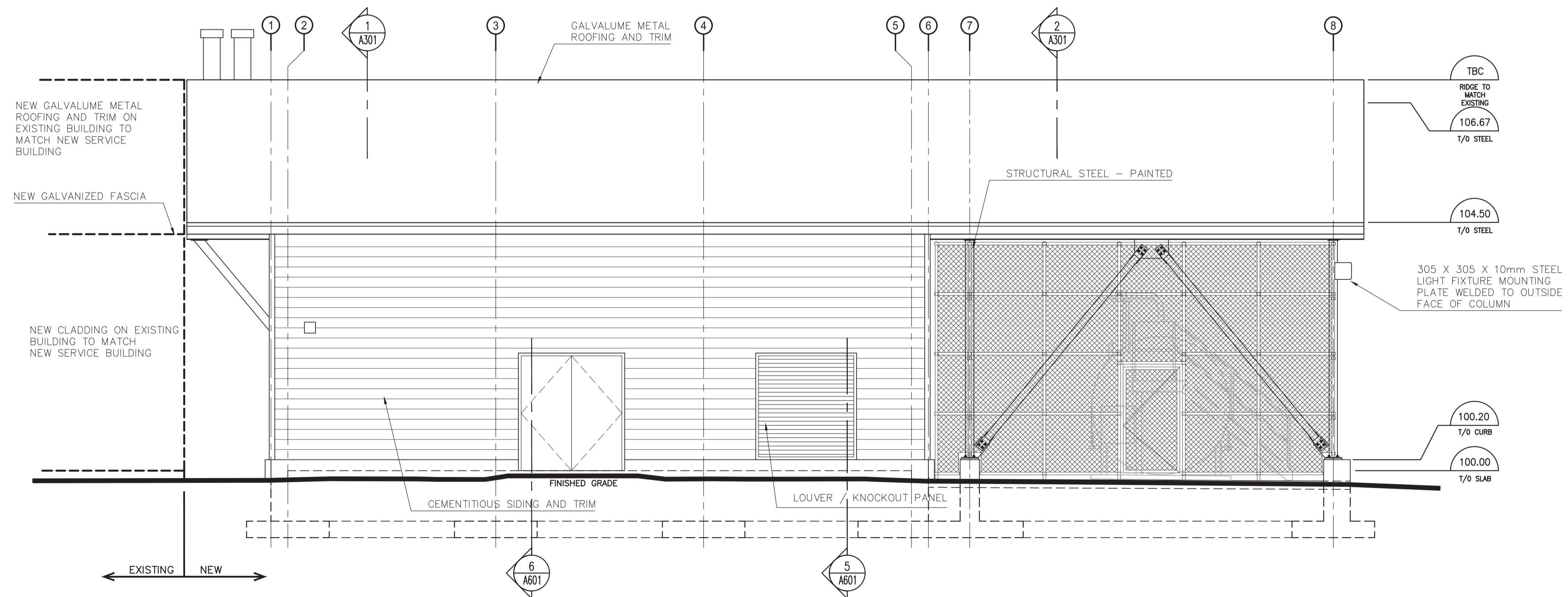
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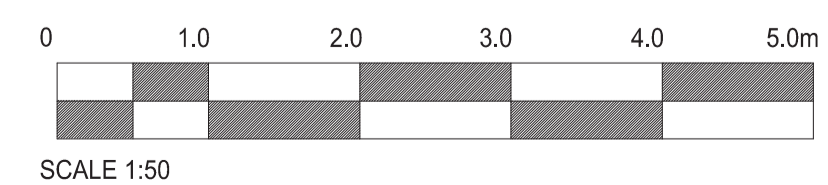
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1 NORTH ELEVATION
A401 1:50



2 WEST ELEVATION
A401 1:50



SCALE 1:50

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Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin
SITE SERVICES BUILDING EXTERIOR ELEVATIONS

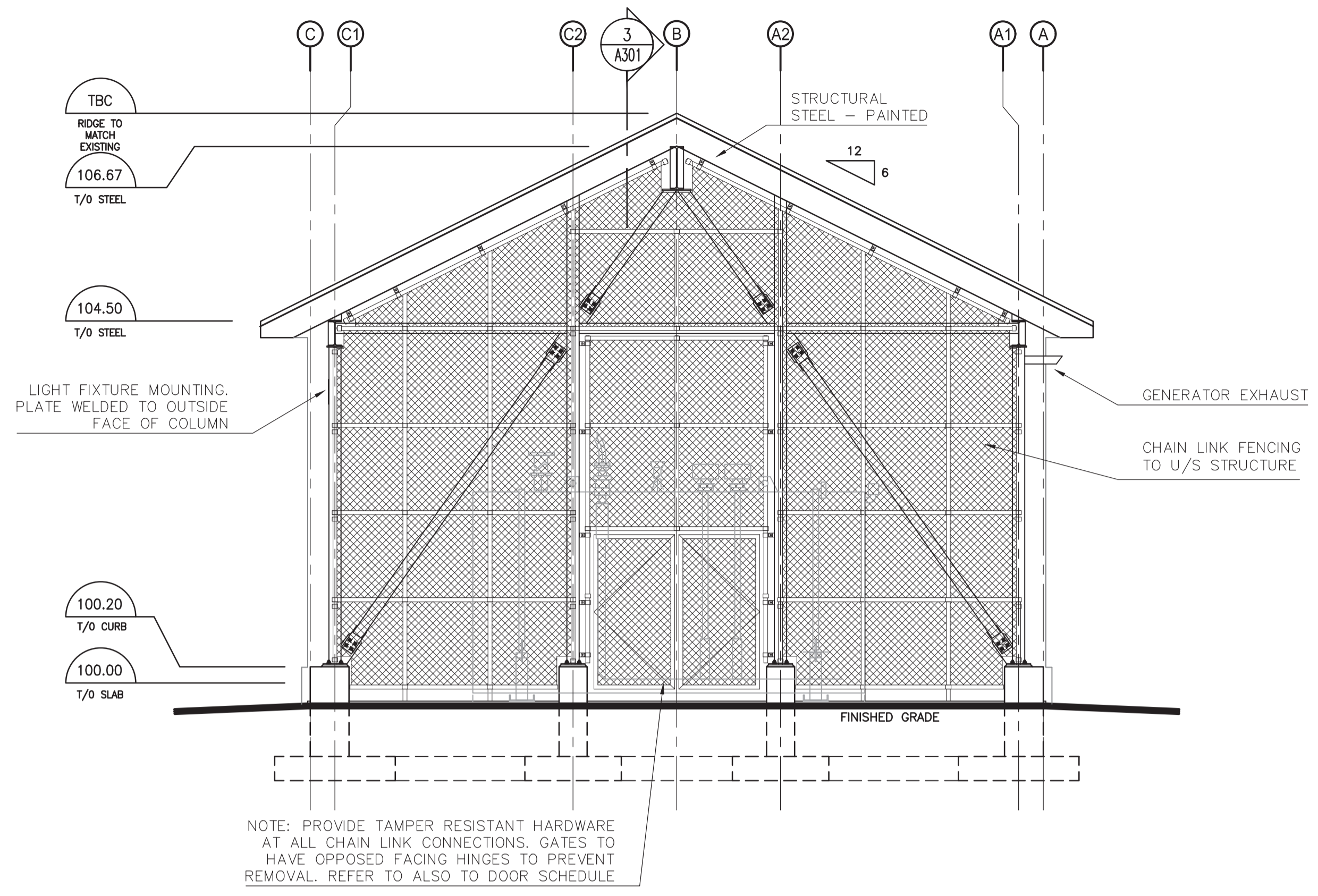
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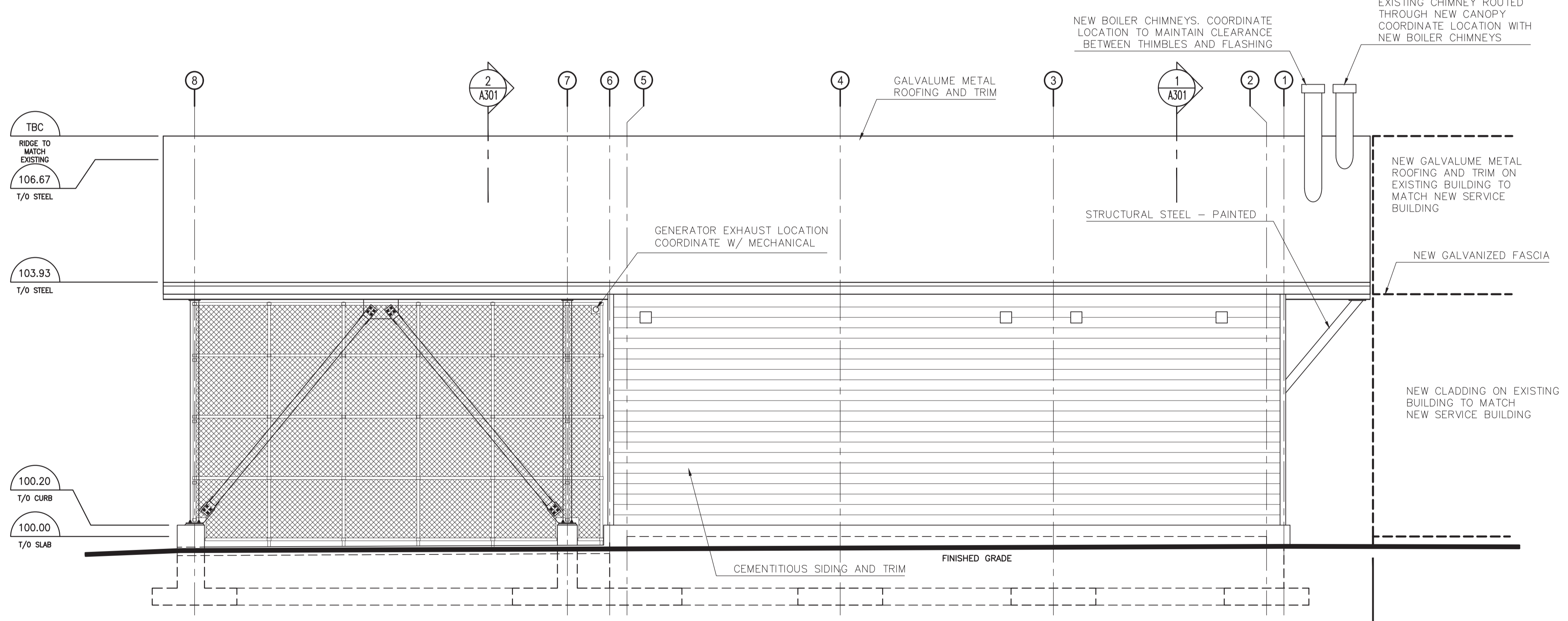
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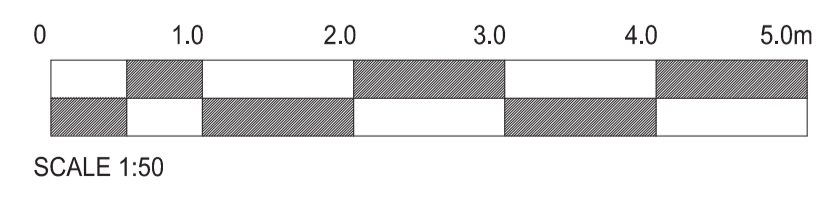
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1 SOUTH ELEVATION
A402 1:50



2 EAST ELEVATION
A402 1:50



Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	15/02/15

Client/client
CANADA BORDER SERVICES AGENCY

Project title/Titre du projet
PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

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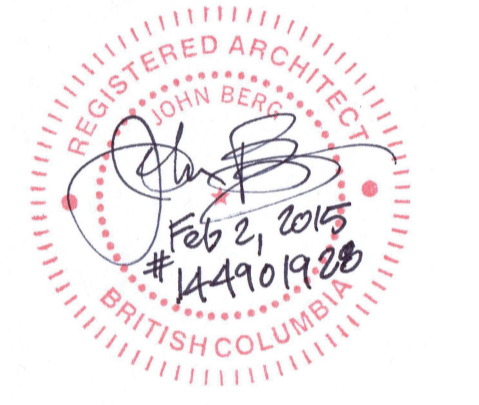
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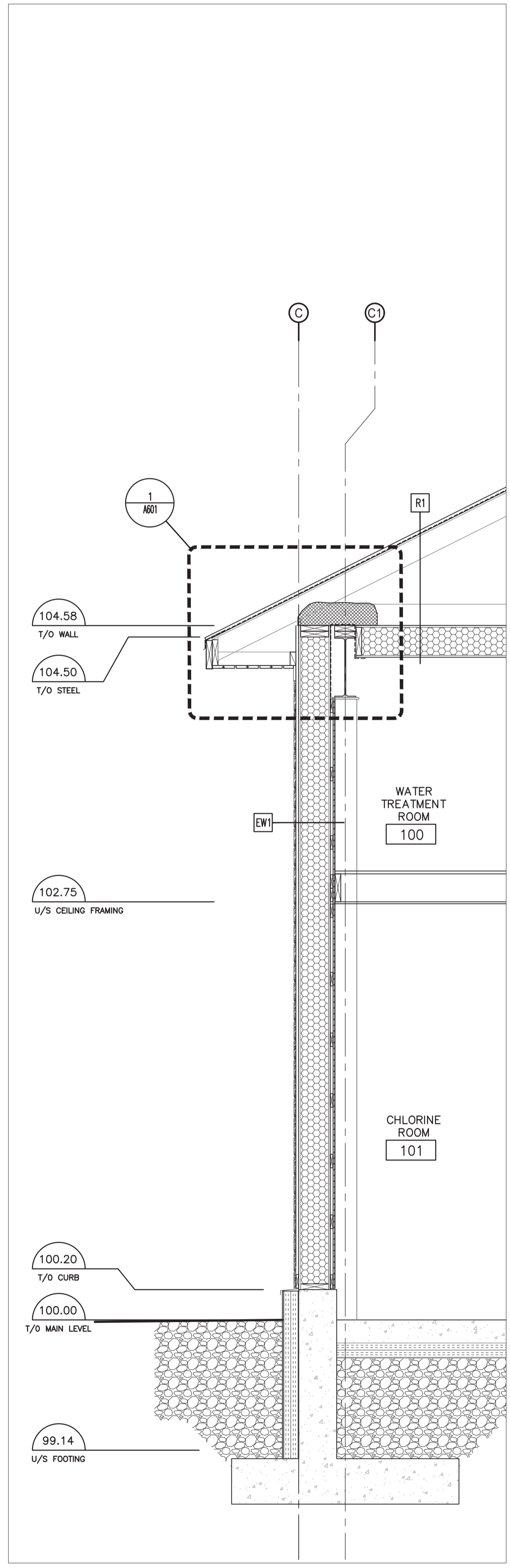
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CANADA BORDER SERVICES AGENCY

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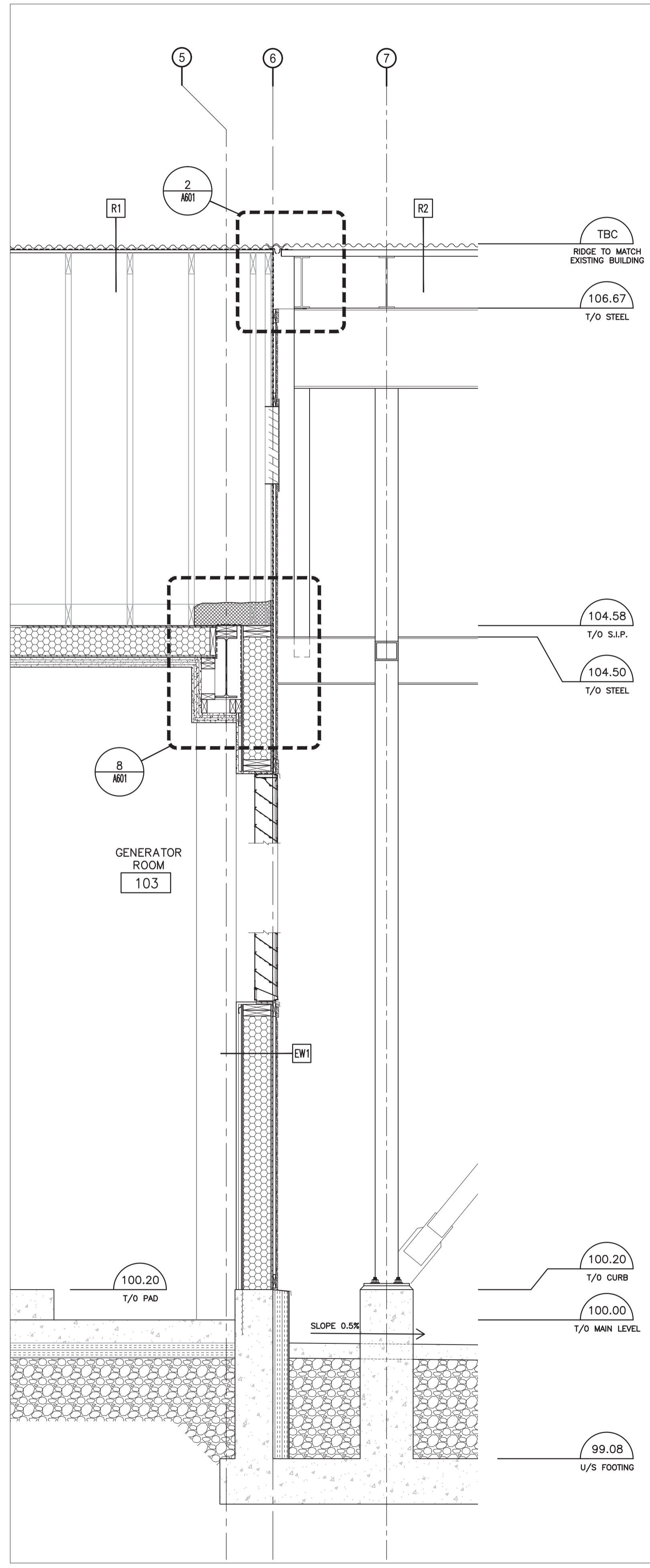
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SITE SERVICES BUILDING WALL SECTIONS

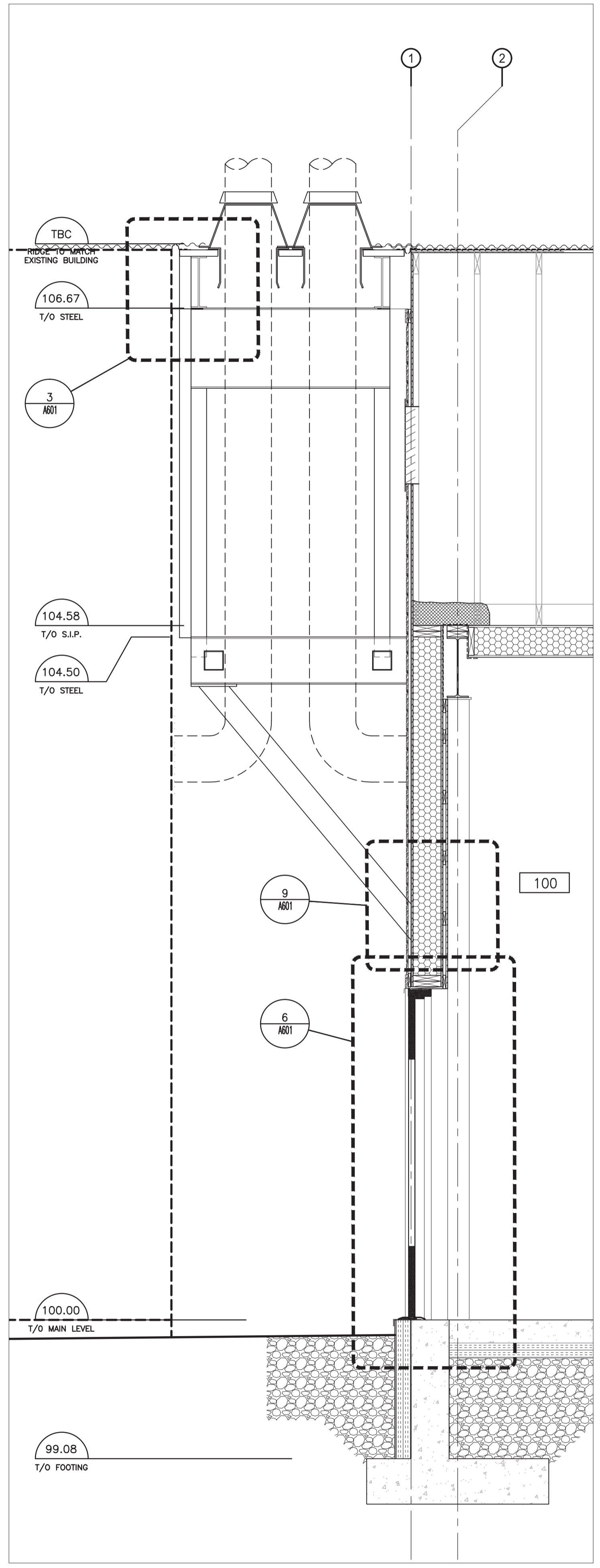
Project No./No. du projet R.071363.001	Sheet/Feuille A501 OF	Revision no./La Révision no. 0
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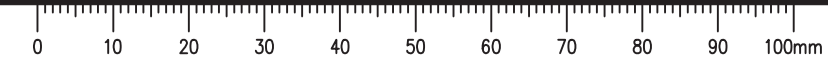
1 WALL SECTION
A501 1:20

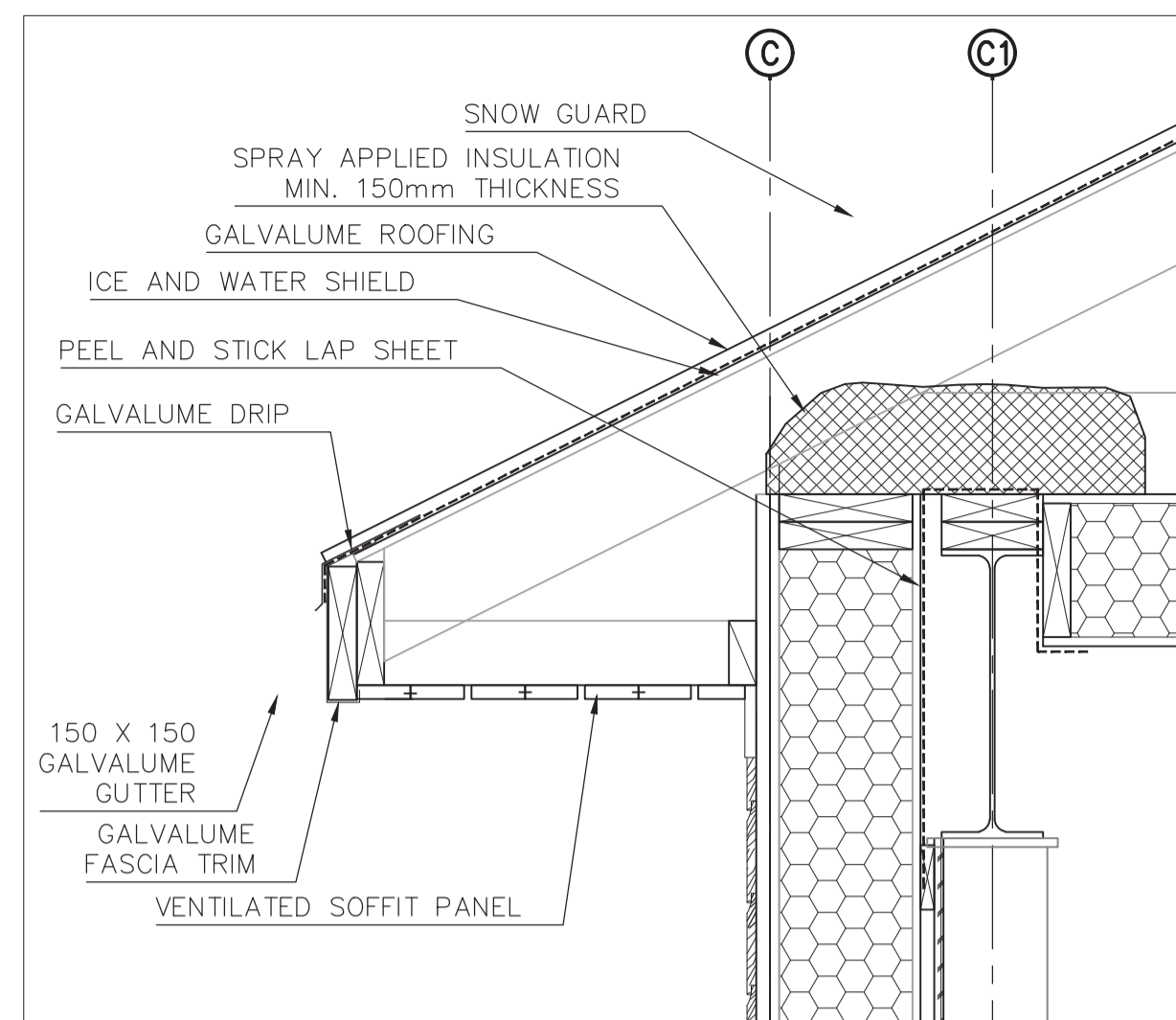


2 WALL SECTION
A501 1:20

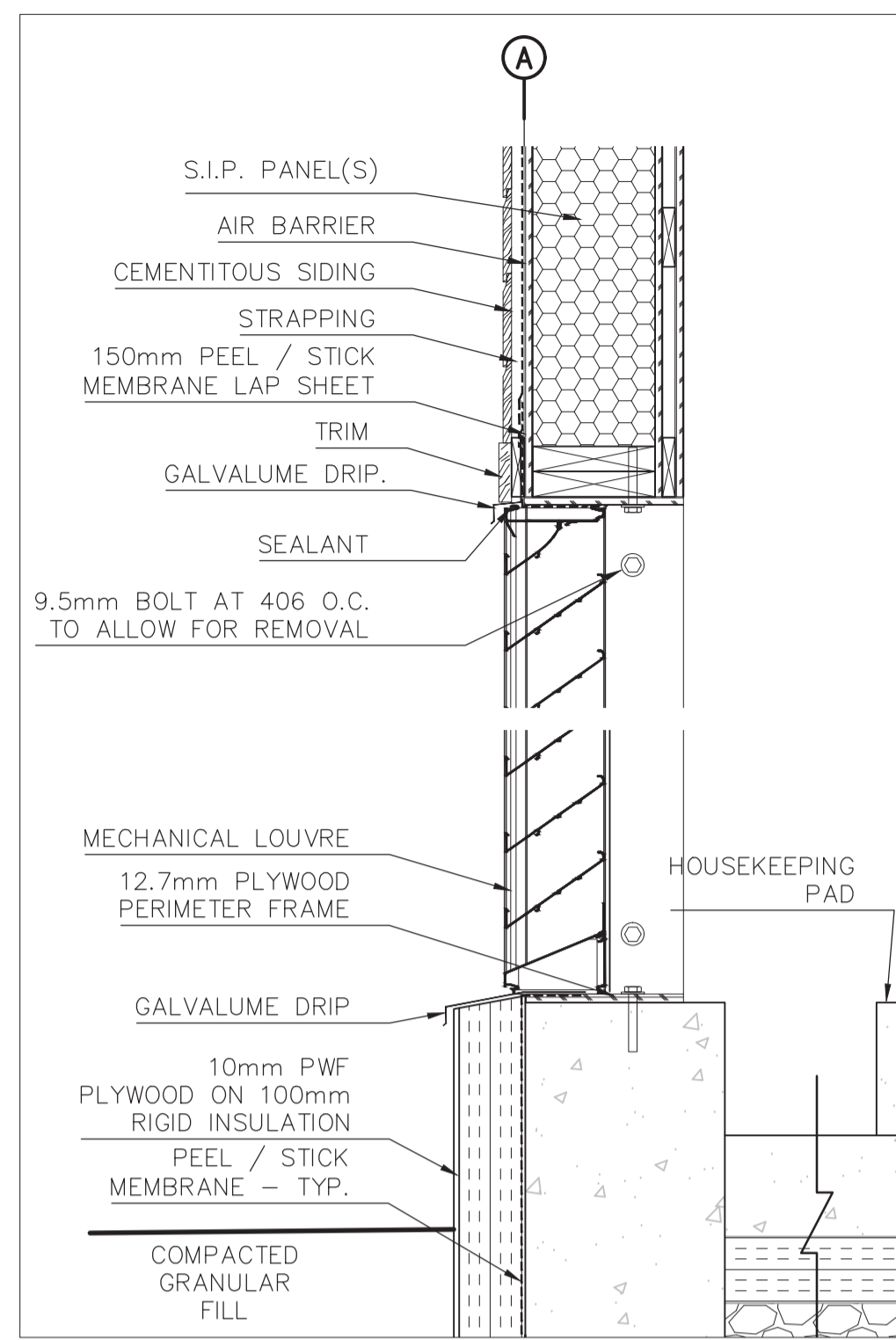


3 WALL SECTION
A501 1:20

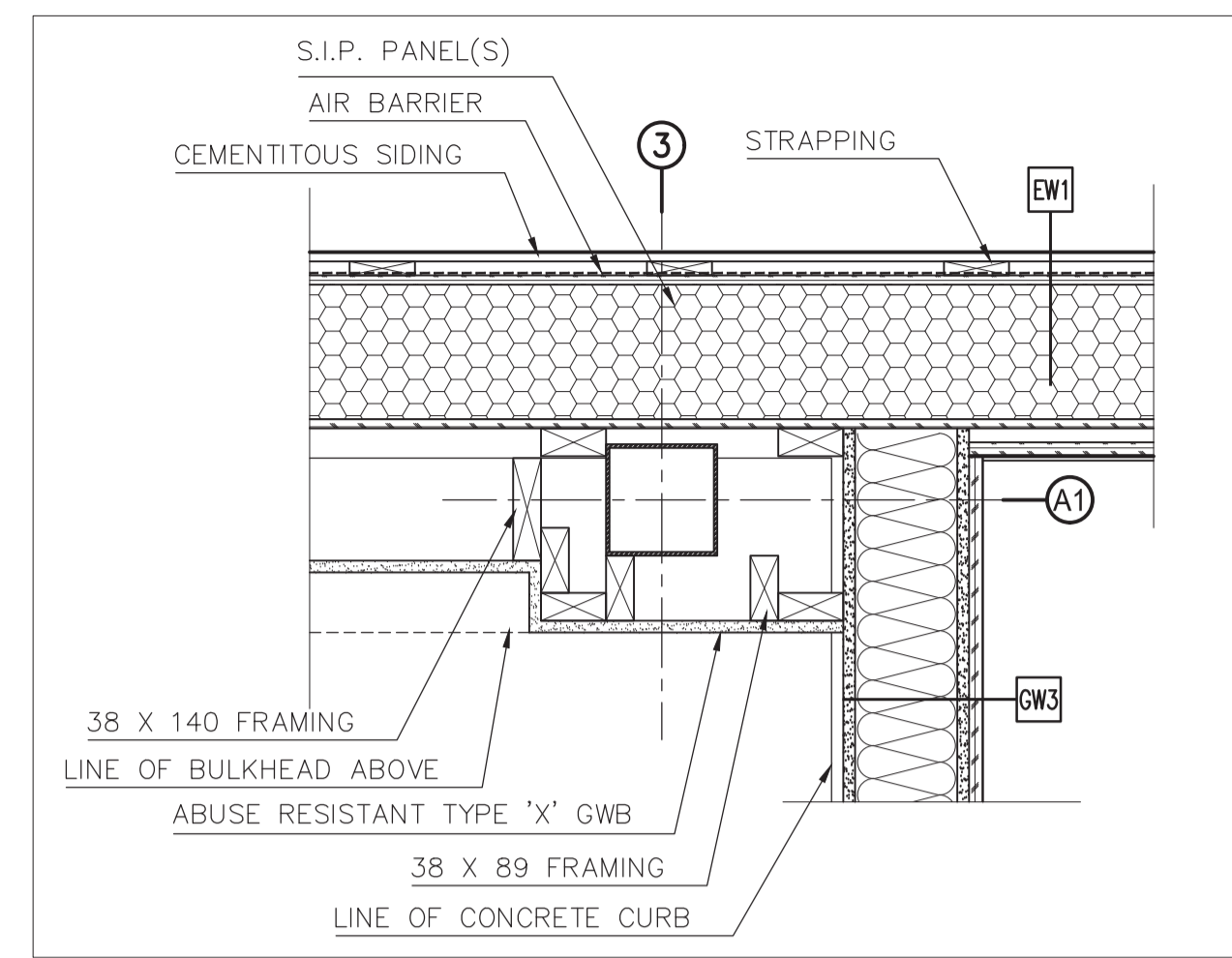




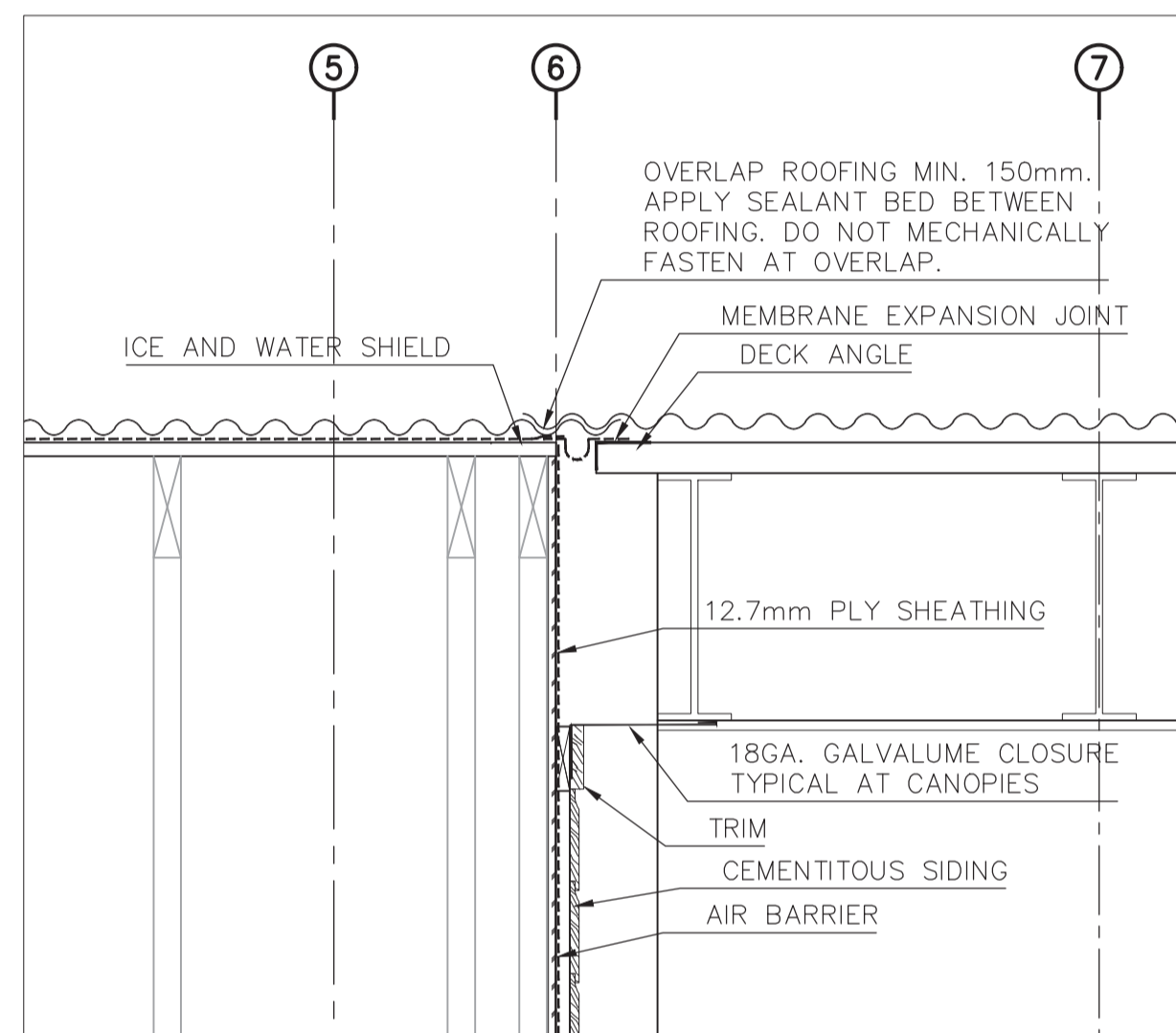
1 SOFFIT DETAIL
A601 1:10



8 RATED BULKHEAD DETAIL
A601 1:10

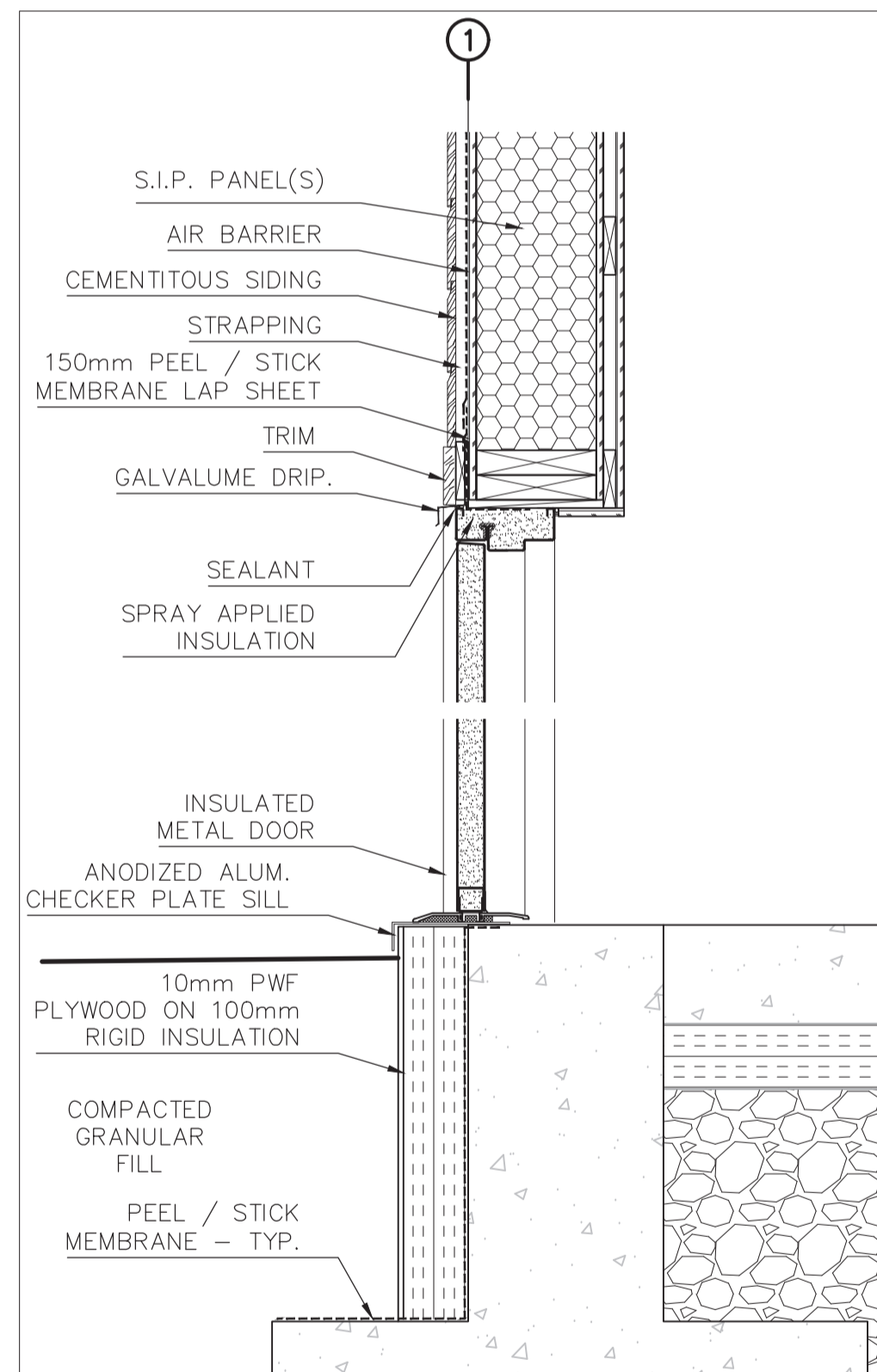


11 PLAN DETAIL
A601 1:10

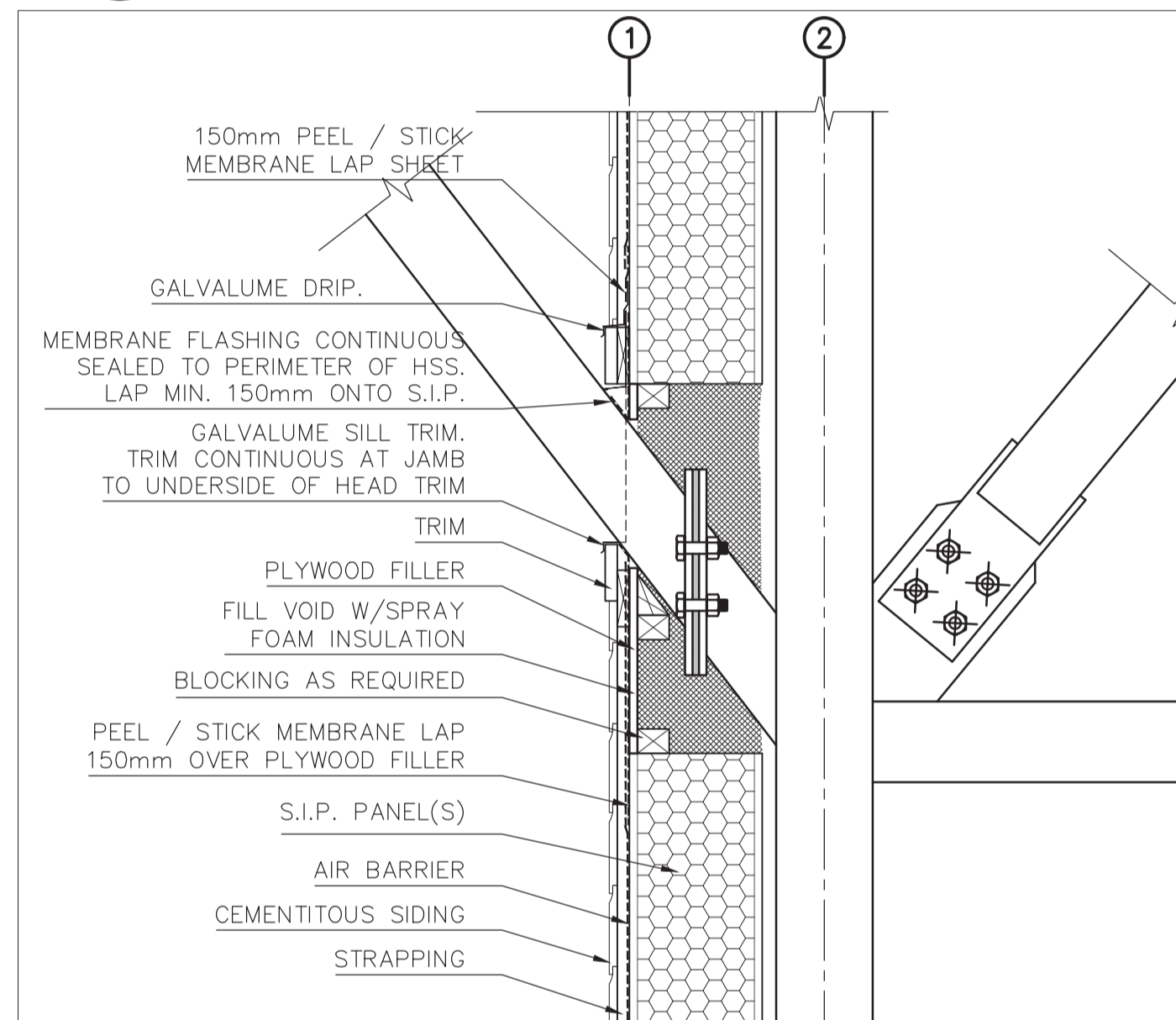


2 ROOF EXPANSION JOINT DETAIL
A601 1:10

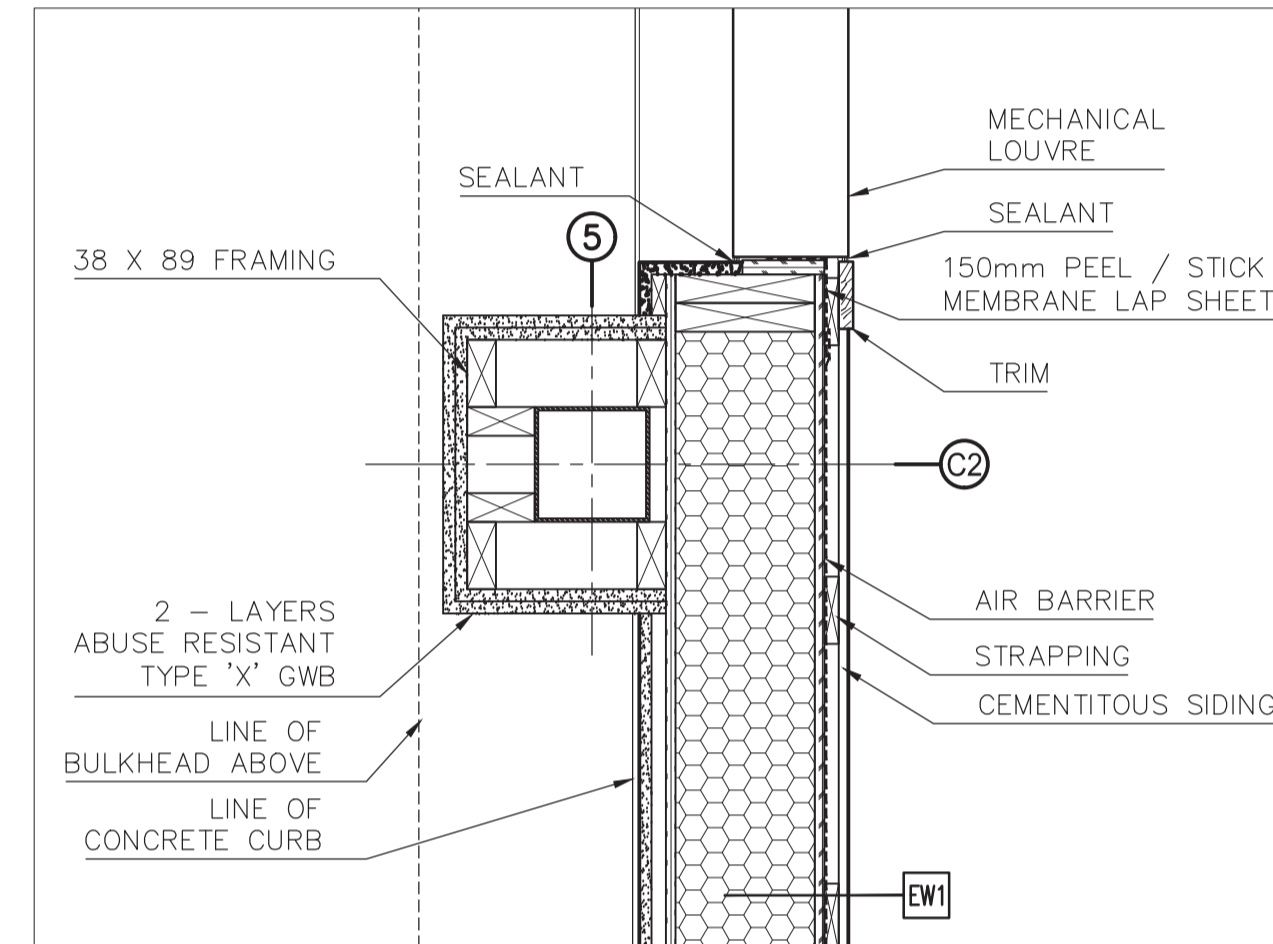
5 KNOCKOUT PANEL
A601 1:10



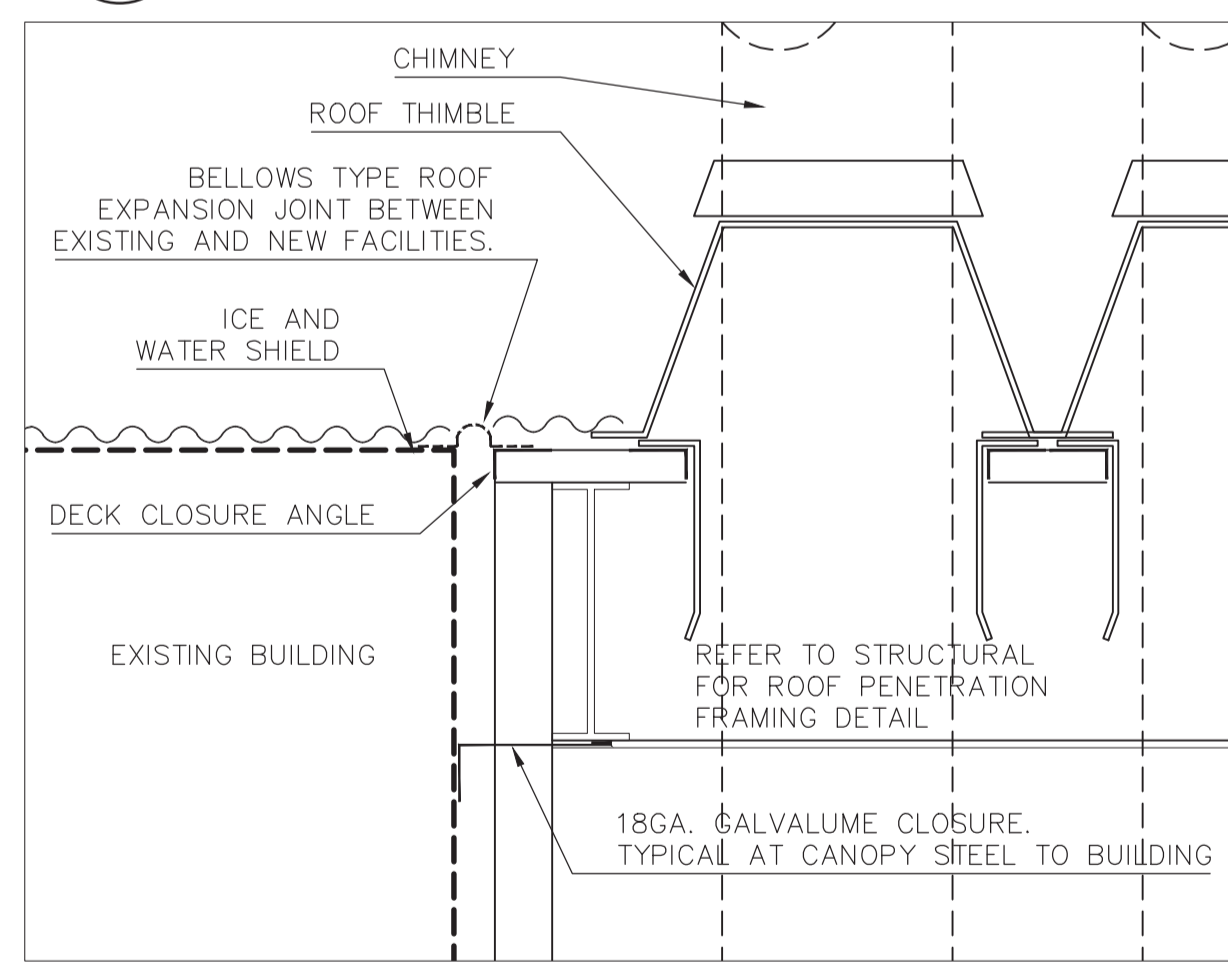
6 DOOR / FOUNDATION SECTION
A601 1:10



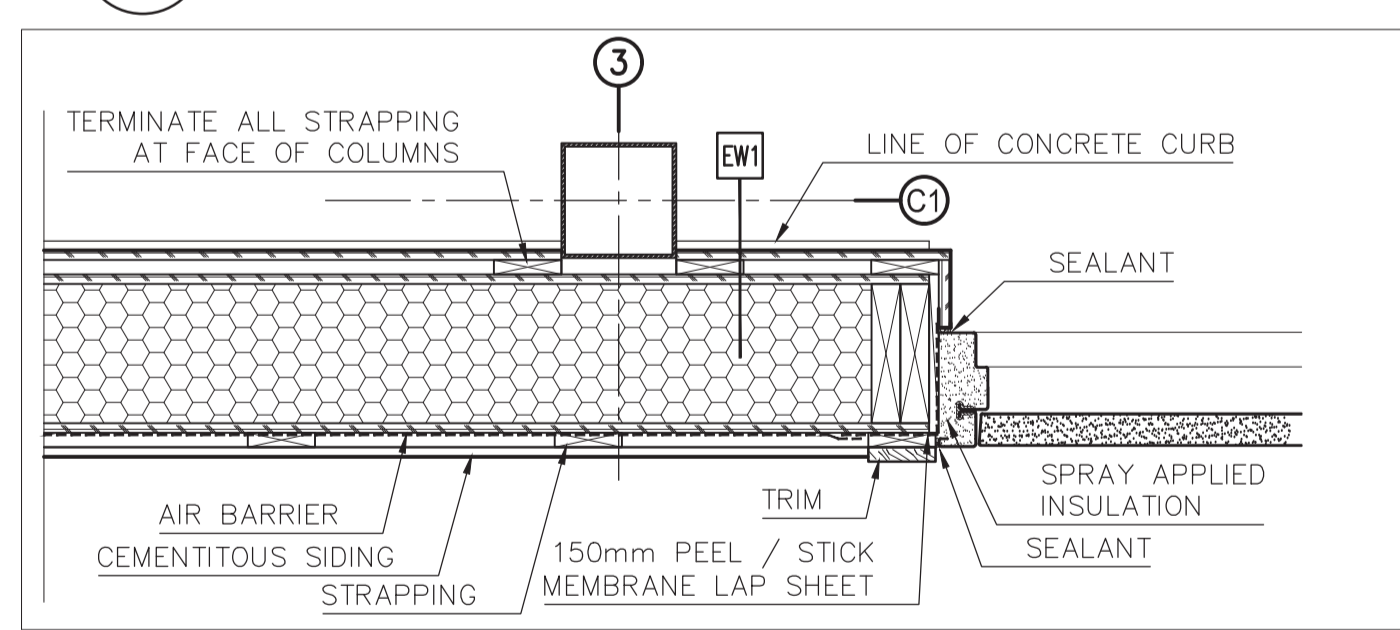
9 STRUCTURE PENETRATION DETAIL
A601 1:10



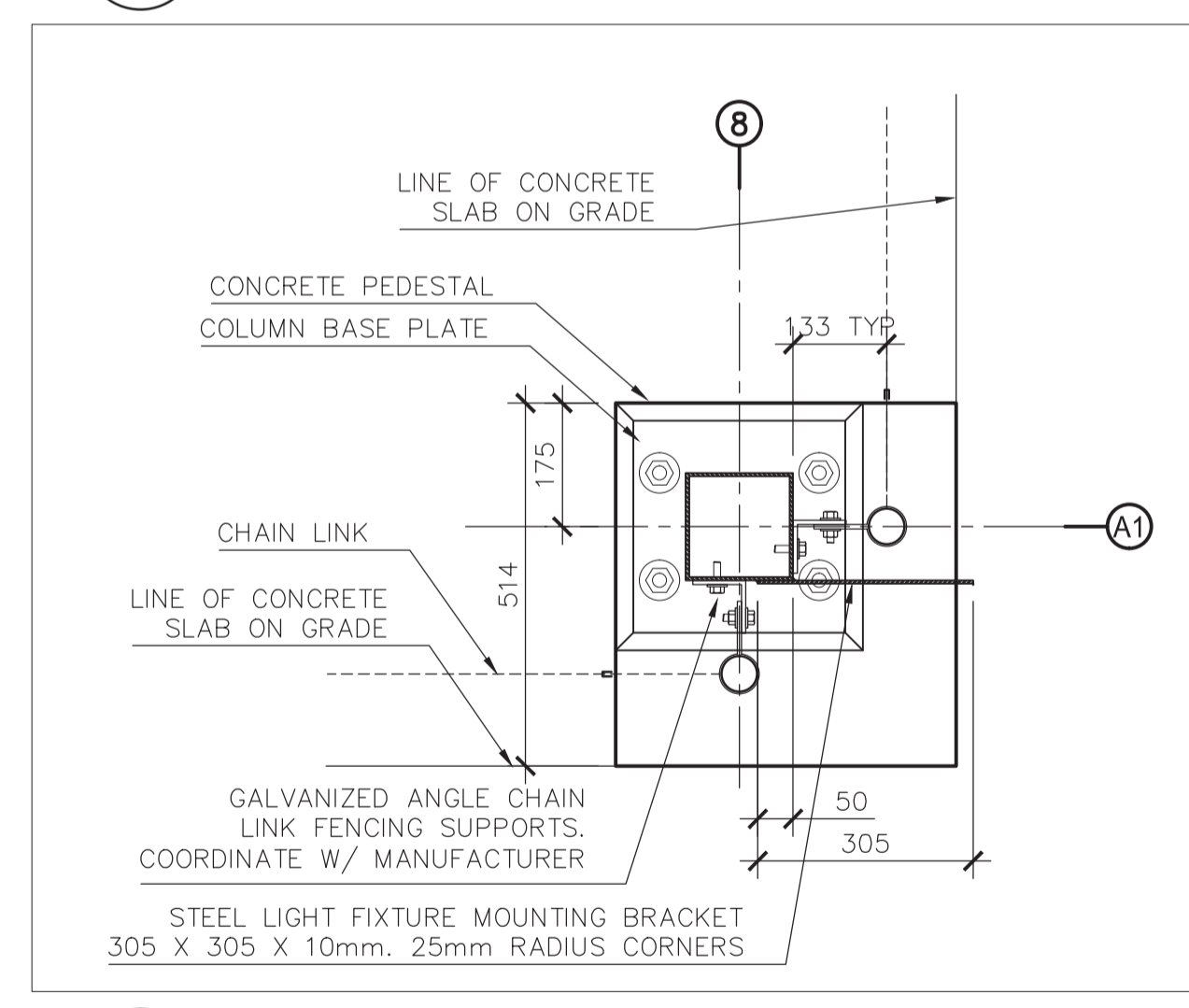
12 PLAN DETAIL
A601 1:10



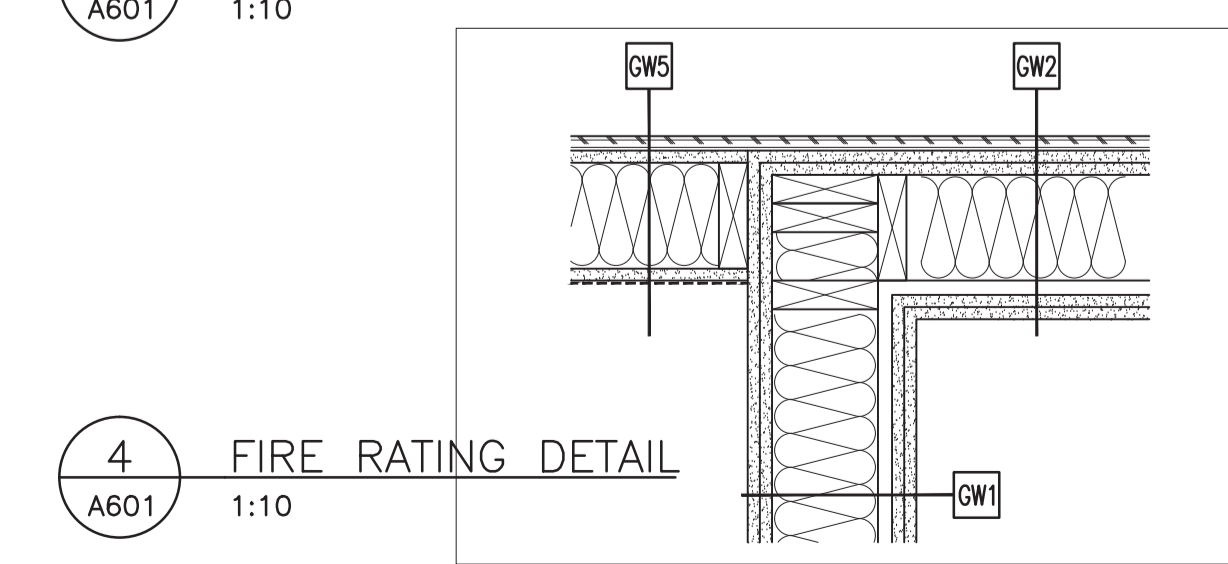
3 NEW TO EXISTING ROOF DETAIL
A601 1:10



10 PLAN DETAIL
A601 1:10



13 PLAN DETAIL
A601 1:10



4 FIRE RATING DETAIL
A601 1:10



7 DOOR HEAD DETAIL
A601 1:10

DOOR SCHEDULE									
DOOR NAME	ROOM NAME	DOOR SIZE	DOOR TYPE	DOOR MAT.	DOOR FINISH	FRAME MAT.	FRAME FINISH	FRAME ELEV.	COMMENTS
100.1	WATER TREATMENT ROOM	2134 X 914	-	IHM	PT	TBPS	PT	-	
100.2	WATER TREATMENT ROOM	2134 X 1828	-	IHM	PT	TBPS	PT	-	
101.1	CHLORINE ROOM	2134 X 914	-	IHM	PT	HM	PT	-	
102.1	ELECTRICAL ROOM	2134 X 914	-	IHM	PT	TBPS	PT	-	
104.1	GENERATOR ROOM	2134 X 914	-	IHM	PT	TBPS	PT	-	
105.1	MECHANICAL ROOM	2134 X 914	-	IHM	PT	THPS	PT	-	
106.1	TANK ACCESS GATE	2194 X 1828	-	-	-	-	-	-	RIGHT LEAF OPERABLE, PADLOCK HARDWARE, OPPOSED HINGES, TAMPER PROOF FASTENERS, RIGHT LEAF PIN BOLTS TOP AND BOTTOM
106.2	TANK ACCESS GATE	2194 X 914	-	-	-	-	-	-	PADLOCK HARDWARE, OPPOSED HINGES, TAMPER PROOF FASTENERS



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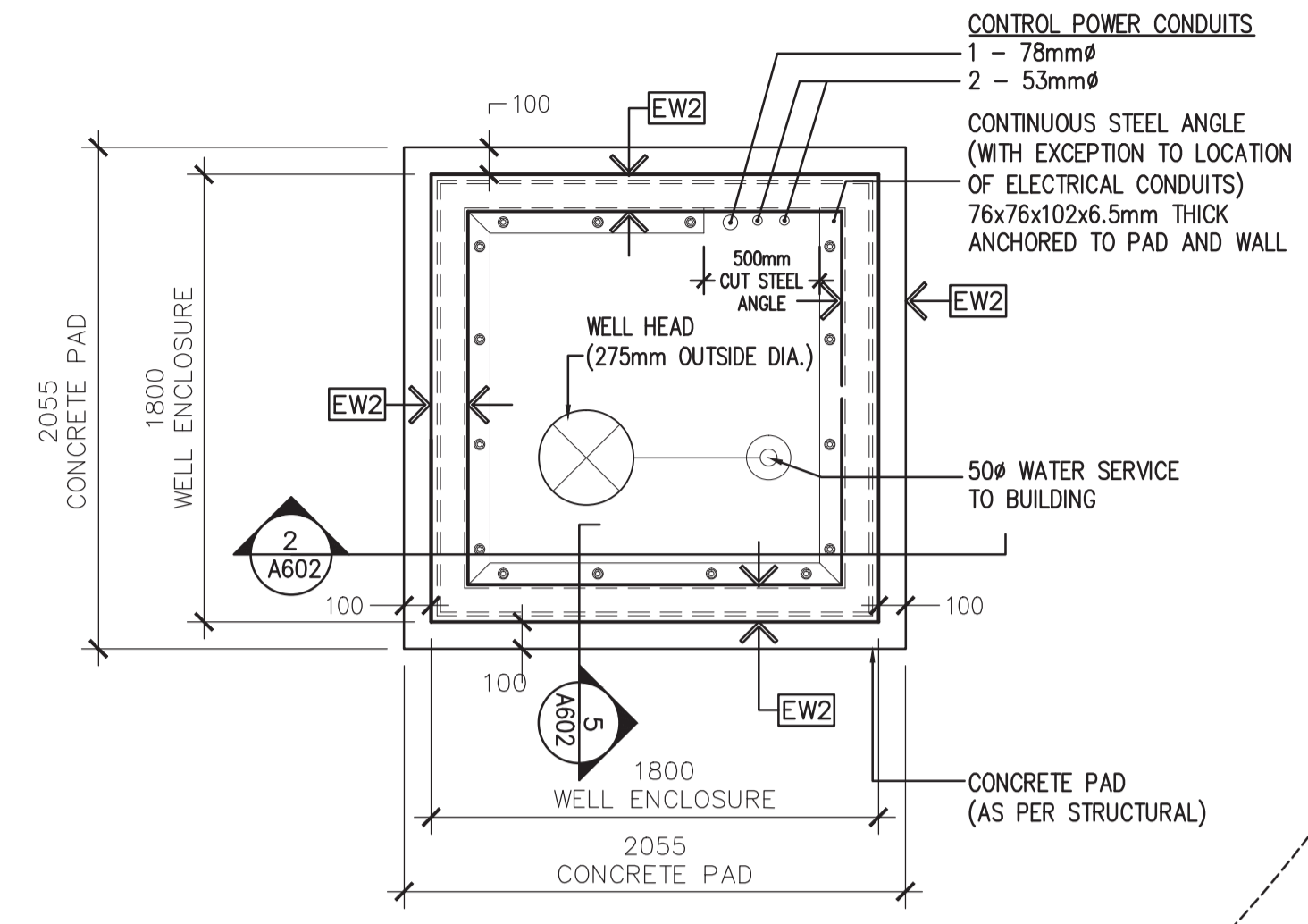
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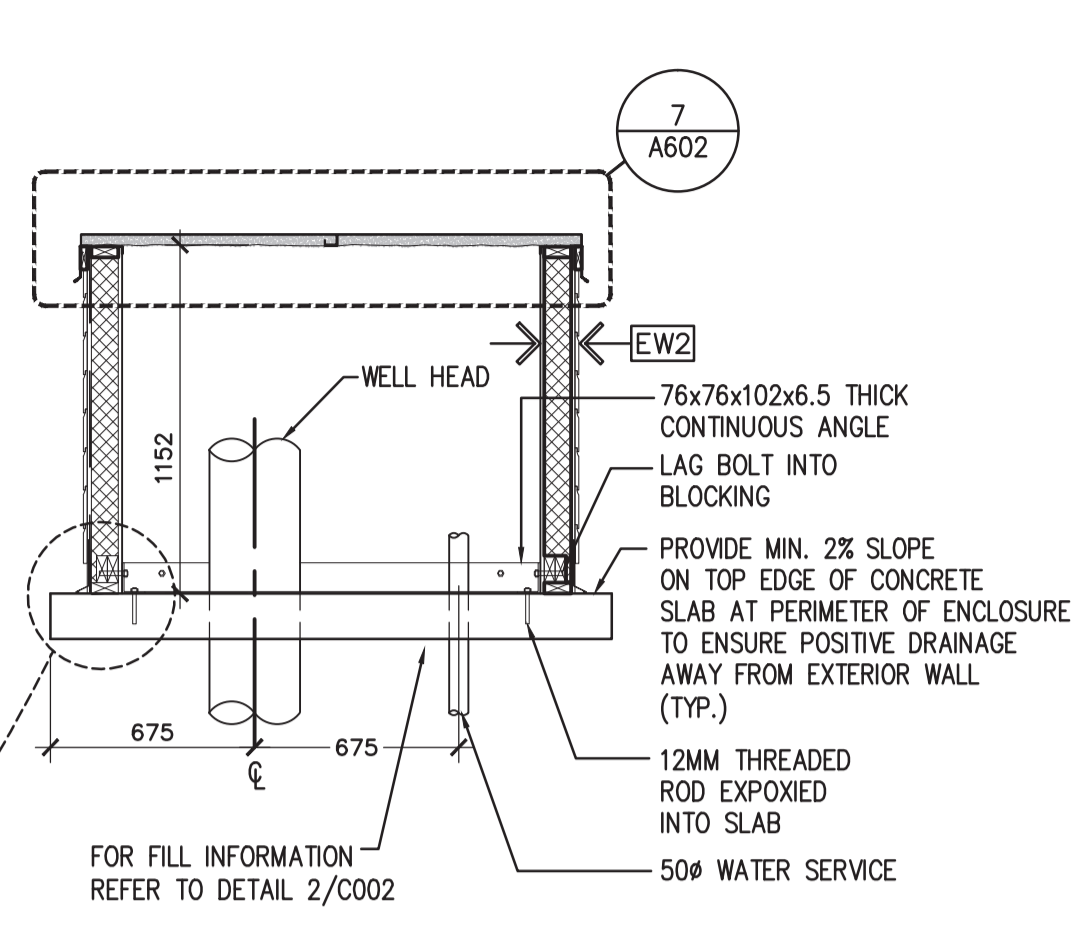
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Drawing title/Titre du dessin
SITE SERVICES BUILDING DETAILS & WELL ENCLOSURE

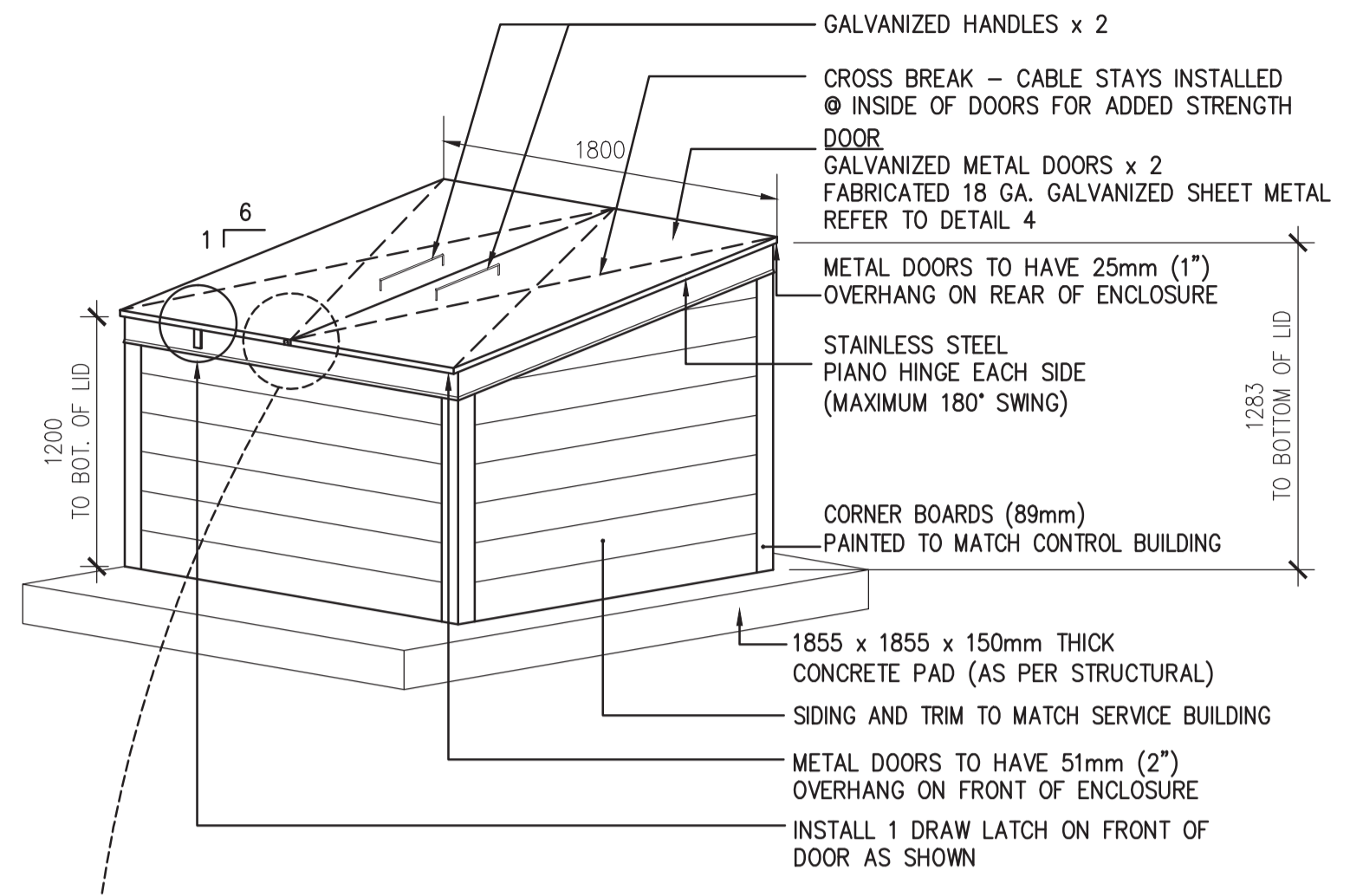
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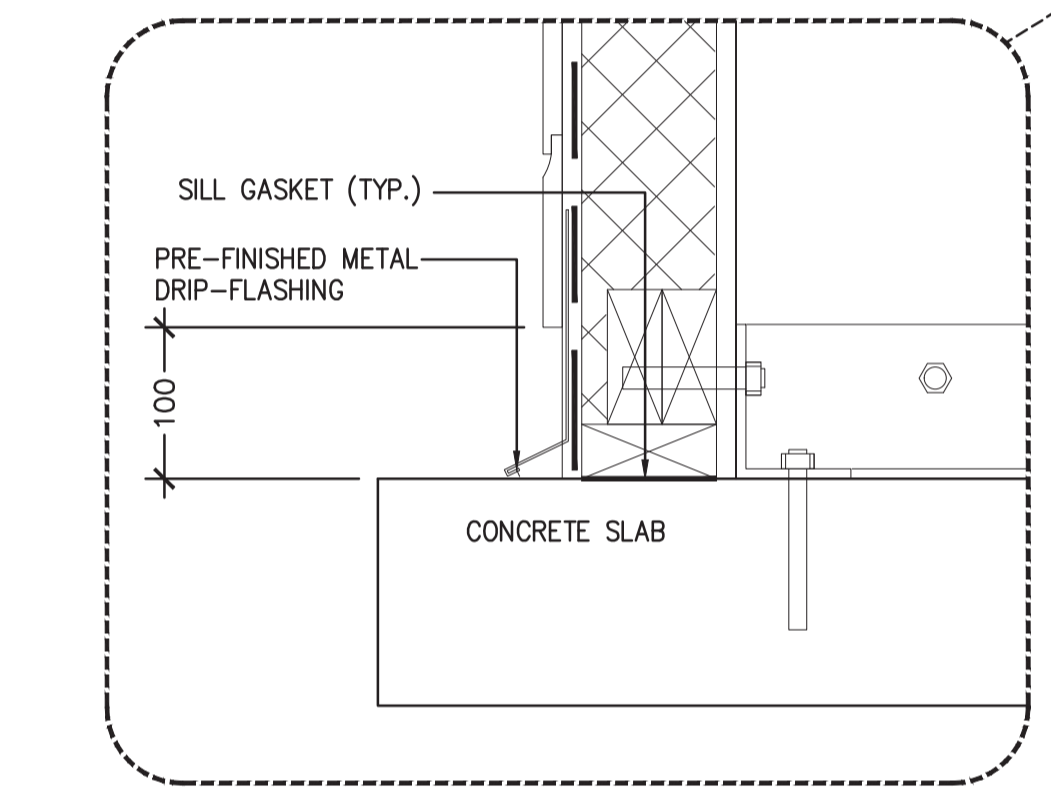
1 WELL ENCLOSURE - PLAN VIEW
1:25



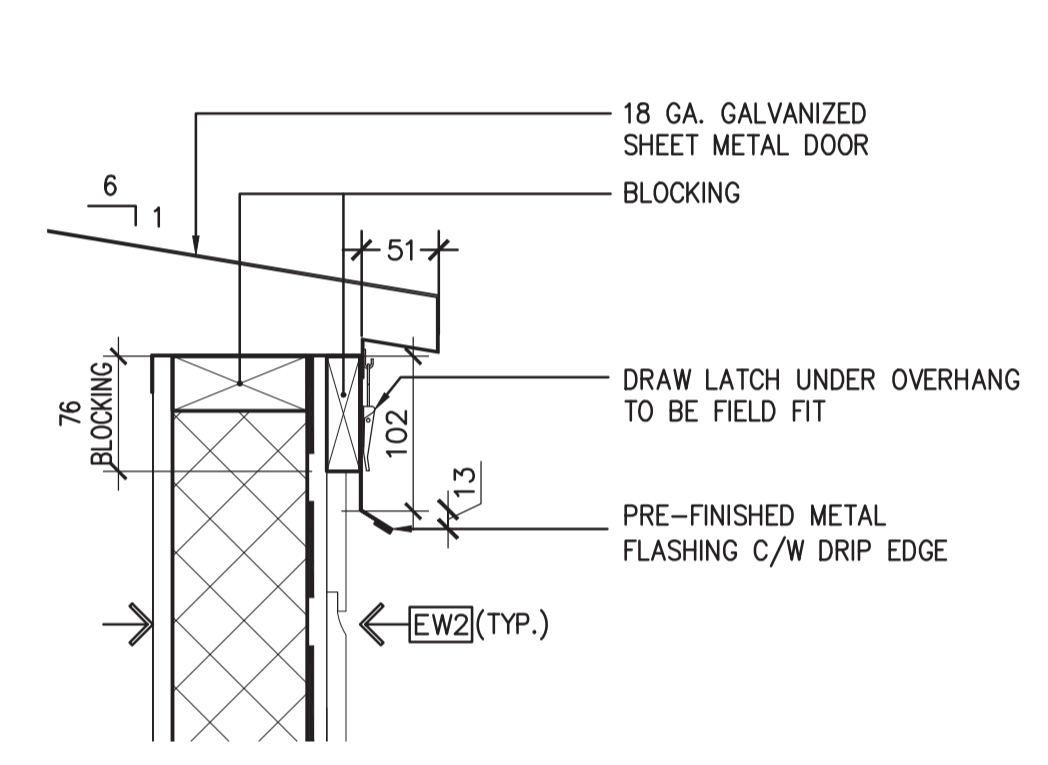
2 WELL ENCLOSURE - SECTION
1:25



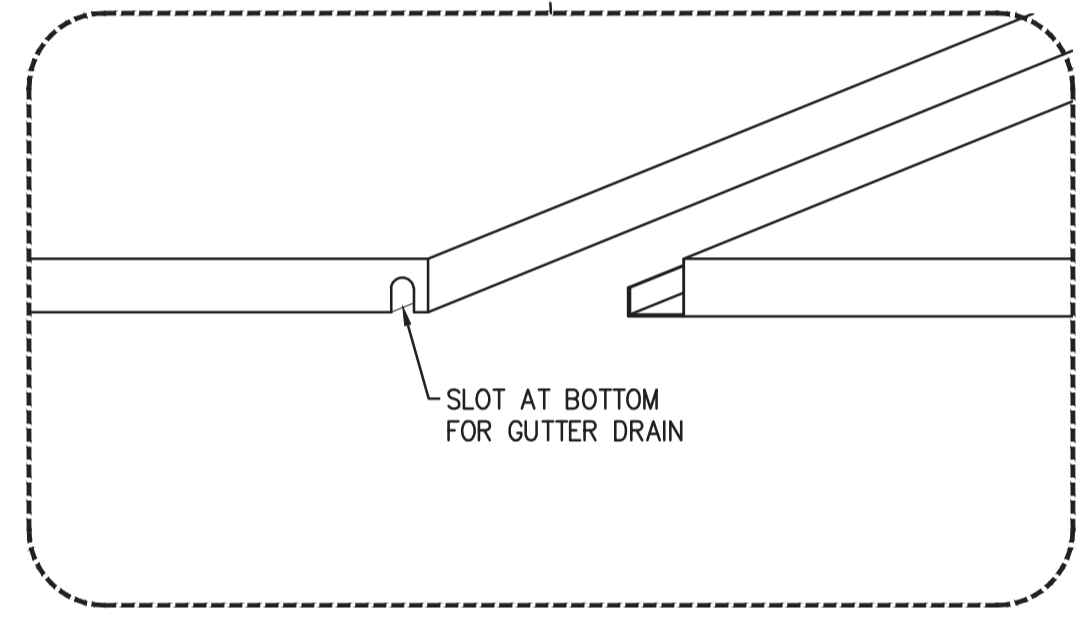
3 WELL ENCLOSURE - AXONOMETRIC VIEW
1:25



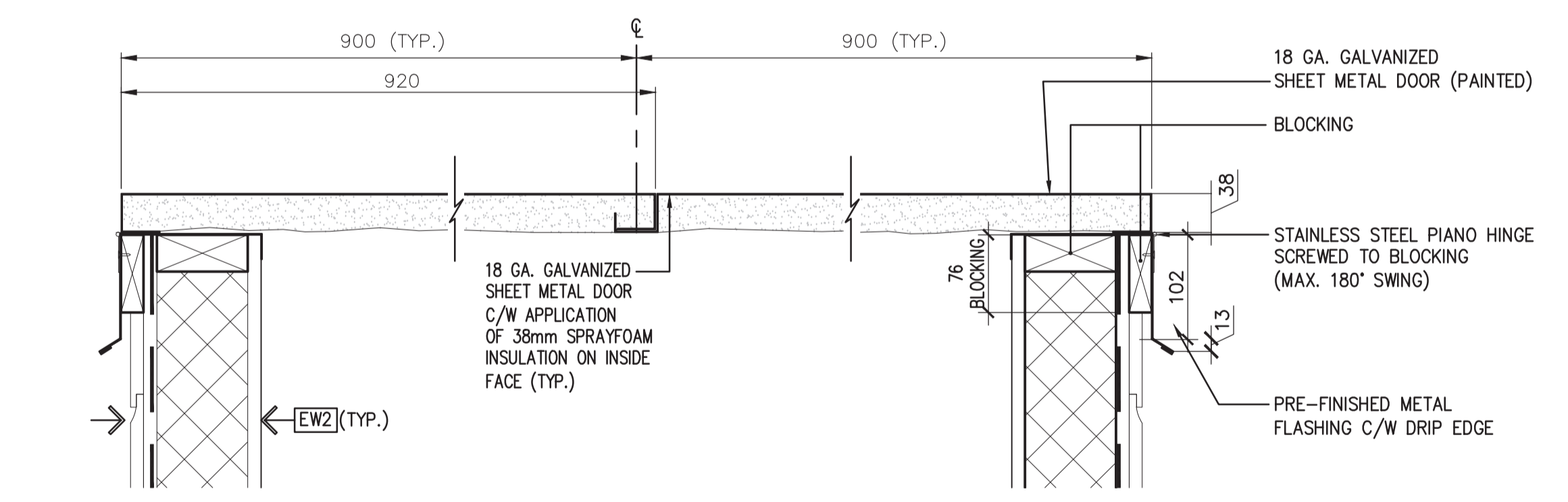
4 SILL PLATE DETAIL
1:5



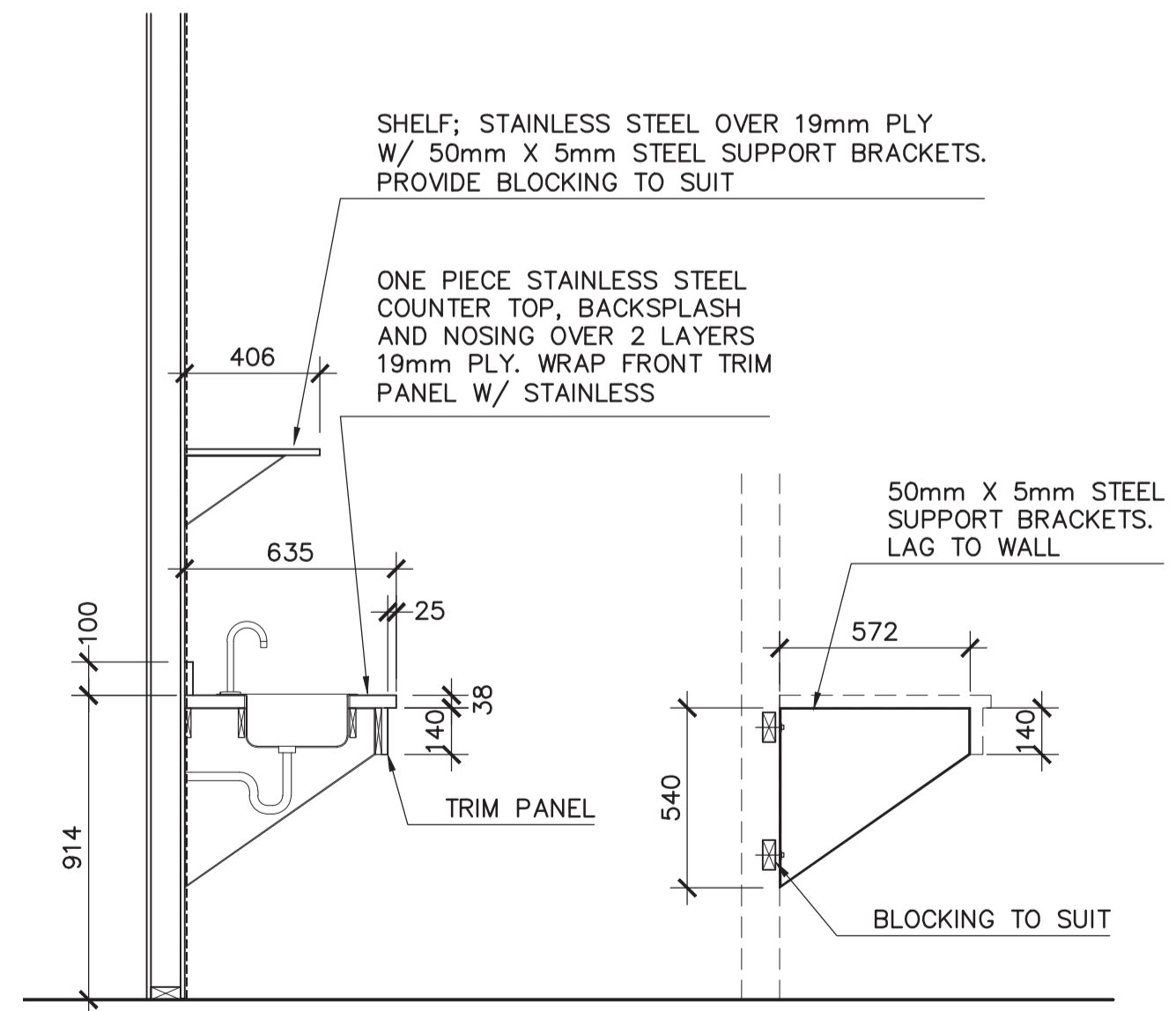
5 WELL ENCLOSURE - TOP OF FRONT WALL SECTION
1:5



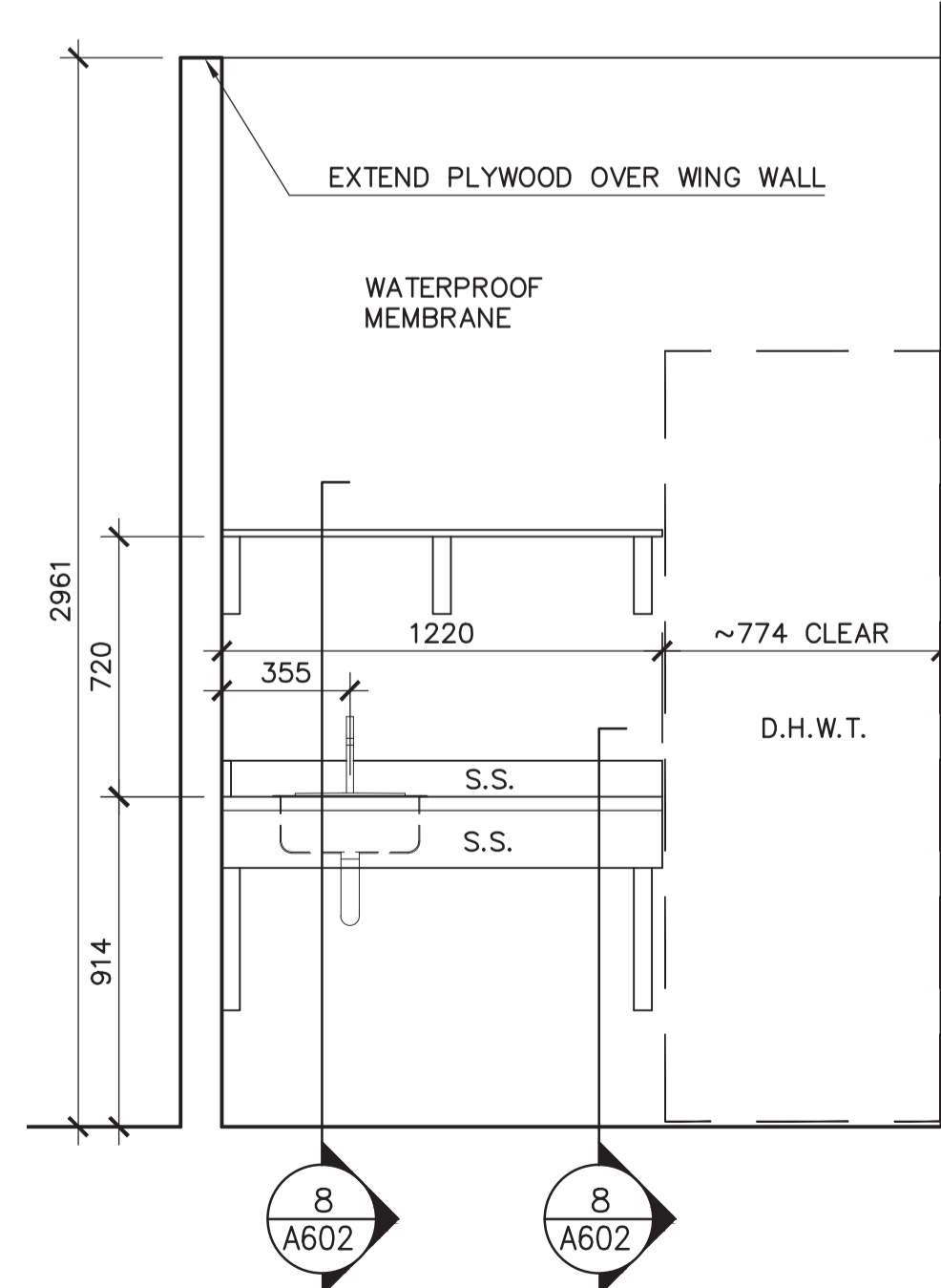
6 DOOR GUTTER DETAIL
1:5



7 WELL ENCLOSURE - METAL DOORS DETAIL
1:5



8 COUNTER SECTION
1:20



9 COUNTER ELEVATION
1:20



DESIGN NOTES

GENERAL

- 1. ALL CODES REFERENCED ARE TO BE THE LATEST VERSION AT THE DATE OF ISSUE.
2. DESIGN IS BASED ON THE NATIONAL BUILDING CODE 2010.
3. READ THESE DESIGN NOTES IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS.
4. OBTAIN ENGINEER'S APPROVAL BEFORE CUTTING, BORING, OR SLEEVING LOAD-BEARING MEMBERS UNLESS NOTED OTHERWISE.
5. THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. STABILITY OF THE EXISTING AND NEW STRUCTURE DURING CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.
6. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SMALL OPENINGS, SLEEVES, RECESSES, DEPRESSIONS, SUMPS, TRENCHES, CURBS, HOUSEKEEPING PADS, EQUIPMENT BASES, AND SLOPES NOT INDICATED ON THE STRUCTURAL DRAWINGS.
7. OPENINGS AND SLEEVES INDICATED ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. COORDINATE ALL OPENING LOCATIONS AND DIMENSIONS WITH THE APPROPRIATE CONSULTANT AND THE SUB-CONTRACTOR PRIOR TO CONSTRUCTION.
8. REVIEW ALL DRAWINGS AND CHECK DIMENSIONS PRIOR TO IMPLEMENTING THE WORK. REPORT ANY DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.
9. COORDINATE PLACEMENT AND LOCATION OF ITEMS BY SUBSEQUENT TRADES. RELEVANT TRADES SHALL REVIEW PRIOR TO ERECTION AND/OR INSTALLATION.
10. NOTIFY THE ENGINEER A MINIMUM OF 72 HOURS PRIOR TO ANY REQUIRED SITE REVIEWS.

EXISTING STRUCTURES

- 1. THE STRUCTURAL DESIGN IS BASED ON INFORMATION GATHERED FROM THE RECORD DRAWINGS AND FROM LIMITED VISUAL OBSERVATIONS ON SITE.
2. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO IMPLEMENTING AFFECTED WORK.
3. NOTIFY THE CONSULTANT OF ANY SITE CONDITIONS THAT DIFFER FROM THE CONTRACT DOCUMENTS OR THE RECORD DRAWINGS.
4. SHORE AND UNDERPIN EXCAVATIONS AS REQUIRED TO PREVENT DISTURBANCE TO ADJACENT STRUCTURES, STREETS, SIDEWALKS AND UTILITIES.

DESIGN LOADS

- 1. UNLESS NOTED OTHERWISE, THE LOADS NOTED IN TABLES AND ON DRAWINGS ARE UNFACTORED.
2. CLIMATIC INFORMATION REFER TO CLIMATIC INFORMATION TABLE
3. SITE INFORMATION REFER TO SITE INFORMATION TABLE
4. DESIGN LOADS REFER TO DESIGN LOADS TABLE
5. LATERAL LOADS
5.1 LATERAL LOADS FROM WIND AND SEISMIC LOADS ARE RESISTED BY THE FOLLOWING ELEMENTS: STEEL BRACING, AND WOOD PANEL SHEAR WALLS.

DELEGATED DESIGN

- 1. PORTIONS OF THE DETAILED DESIGN ARE DELEGATED TO THE CONTRACTOR [TRADE CONTRACTOR. RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA TO COMPLETE THE DESIGN.
2. SUBMIT SHOP DRAWINGS FOR COMPONENTS REQUIRING DELEGATED DESIGN UNDER THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR THE DESIGN.
3. THE FOLLOWING COMPONENTS REQUIRE DELEGATED DESIGN:
3.2. STRUCTURAL STEEL CONNECTIONS
3.3. SLIP CRITICAL CONNECTIONS FOR STEEL BRACING
3.4. SIP PANELS INCLUDING CONNECTIONS
3.5. PRE-FABRICATED WOOD TRUSSES
4. THE ENGINEER RESPONSIBLE FOR THE DESIGN IS ALSO RESPONSIBLE FOR REVIEW OF FABRICATION AND INSTALLATION OF THE COMPONENTS. UPON COMPLETION OF THE WORK, CERTIFY IN WRITING TO THE CONSULTANT THAT SUCH REVIEW HAS BEEN COMPLETED
4. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

FOUNDATION AND GEOTECHNICAL NOTES

- 1. FOUNDATION DESIGN IS BASED ON THE FOUNDATION INVESTIGATION SOILS REPORT NUMBER W14103501-01 PREPARED BY TETRA TECH EBA, AND DATED DECEMBER 9,2014. ENSURE THAT THE REQUIREMENTS OUTLINED IN THE REPORT ARE READ AND UNDERSTOOD PRIOR TO COMMENCING WITH FOUNDATION WORK.
2. BEAR ALL FOOTINGS ON UNDISTURBED SOIL NOTWITHSTANDING THE ELEVATIONS INDICATED ON THE DRAWINGS.
3. BRING OVER-EXCAVATION AND CAVITIES IN THE FOOTING BASE UP TO THE REQUIRED LEVELS WITH 10 MPa CONCRETE.
4. REMOVE ALL ORGANIC MATERIAL FROM THE BUILDING AREA AS OUTLINED IN THE GEOTECHNICAL REPORT.
5. REMOVE ALL LOOSE OR SATURATED MATERIAL AND GROUNDWATER FROM THE BASE OF FOOTING EXCAVATIONS BY APPROVED METHODS PRIOR TO PLACING FOUNDATIONS.
6. PROTECT EXCAVATIONS FOR FOOTINGS FROM RAIN, SNOW, FREEZING TEMPERATURES, STANDING WATER, LOSS OF MOISTURE AND DEGRADATION BY APPROVED METHODS.
7. BEARING SURFACES TO BE INSPECTED IN THE FIELD BY A PROFESSIONAL GEOTECHNICAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA PRIOR TO PLACING CONCRETE.
8. GEOTECHNICAL TESTING AGENCY TO BE APPROVED BY AND RESPONSIBLE TO THE ENGINEER.
9. UNLESS OTHERWISE SHOWN ON PLAN, FOUNDATION ELEMENTS ARE TO BE

CENTERED UNDER WALLS, AND COLUMNS.

- 10. FOR BACKFILL MATERIAL SEE GEOTECHNICAL REPORT.

CAST-IN-PLACE REINFORCED CONCRETE

- 1. CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO THE LATEST EDITION OF CSA A23.1, A23.2, AND A23.3.
2. SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED IN CONTROLLED CONCRETE TABLE.
3. NOTIFY CONSULTANT 72 HOURS PRIOR TO CONCRETE POURS TO ALLOW FOR REVIEW OF REINFORCEMENT.
4. DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.
5. FOR FLOOR SLABS, DESIGN THE CONCRETE MIX WITH AGGREGATE GRADING AND WATER TO CEMENTING MATERIALS RATIO TO MINIMIZE SHRINKAGE.
6. FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE ENGINEER. TESTING AGENCY SHALL BE CERTIFIED TO CSA-A283 AND TESTING TO BE COMPLETED IN ACCORDANCE WITH CSA-A23.2.
7. DO NOT PLACE LOAD ON NEW CONCRETE OR POUR NEW CONCRETE ON NEW CONCRETE UNTIL AT LEAST 75% OF ITS 28 DAY STRENGTH IS ATTAINED. CONCRETE QUALITY CONTROL TESTING SHALL BE COMPLETED BY QUALIFIED PERSONNEL AND REPORTS ARE TO BE SUBMITTED TO THE ENGINEER.
8. BUILDING IS NOT TO BE PUT INTO SERVICE UNTIL ALL CONCRETE COMPONENTS HAVE CURED FOR 28 DAYS OR PROOF THAT THE 28 DAY STRENGTH HAS BEEN ATTAINED THROUGH QUALITY CONTROL TESTING.
9. FILL ALL HOLES IN CONCRETE MEMBERS CAUSED BY CONSTRUCTION PRACTICE WITH NON-SHRINK GROUT WITH A COMPRESSIVE STRENGTH EQUAL TO THAT OF THE CONCRETE.
10. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE ANCHOR BOLTS SHALL BE GRADE A307.
11. PROVIDE 6mil POLYETHYLENE GROUND SHEETS UNDER ALL SLAB-ON-GRADES. LAP SEAMS AM MINIMUM OF 150mm AND TAPE THE ENTIRE LENGTH OF ALL LAPS.
12. CONCRETE SHALL NOT BE POURED IN AN UNCONFINED MANNER FROM A HEIGHT OF MORE THAN 1220mm.
13. ALL BENDS IN PRIMARY REINFORCEMENT TO HAVE A RADIUS OF NOT LESS THAN 3 TIMES THE BAR DIAMETER.
14. QUALITY CONTROL TESTING OF THE CONCRETE AND GROUTS MUST BE COMPLETED BY QUALIFIED PERSONNEL AND REPORTS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD.
15. ALL CONTROL JOINTS SHALL BE SAW-CUT TO A DEPTH OF 1/4 OF THE SLAB THICKNESS OR 25mm, WHICHEVER IS GREATER. FILL ALL JOINTS WITH ELASTOMERIC JOINT SEALANT.
16. ALL GROUT UNDER BEARING PLATES AND BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH MINIMUM 72 HOUR/28 DAY COMPRESSIVE STRENGTH OF 20/50 MPa, INSTALLED IN ACCORDANCE WITH THE SPECIFICATION AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE GROUT WEEP HOLES IN COLUMN BASE PLATES WHERE SHOWN

CONCRETE REINFORCEMENT

- 1. REINFORCEMENT STEEL TO CONFORM TO CSA-G30.18 GRADE 400W.
2. DO NOT WELD REINFORCEMENT UNLESS APPROVED IN WRITING BY THE ENGINEER. REINFORCEMENT TO BE WELDED TO CONFORM TO CSA G30.18 - GRADE 400W.
3. NOTIFY THE ENGINEER PRIOR TO CONCRETE PLACEMENT TO ALLOW FOR REVIEW OF REINFORCEMENT.
4. CLEAR CONCRETE COVER TO REINFORCEMENT - REFER TO CLEAR CONCRETE COVER TO REINFORCEMENT TABLE.
5. STANDARD END HOOK LENGTHS FOR REINFORCEMENT - REFER TO STANDARD END HOOKS TABLE.
6. REINFORCEMENT SPLICES - REFER TO REINFORCEMENT SPLICES TABLE.
6.14. WHERE SPLICES ARE INDICATED ON THE DRAWINGS, SUCH DIMENSIONS SHALL APPLY.
6.15. WHERE THE DRAWINGS INDICATE TENSION OR COMPRESSION SPLICES, IT SHALL BE AS INDICATED IN REINFORCEMENT SPLICES TABLE.
6.16. WHERE NO SPLICE OR SPLICE TYPE IS INDICATED ON THESE DRAWINGS, IT SHALL BE A TENSION SPLICE EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION SPLICE.
7. EMBEDMENT OF DOWELS - REFER TO REINFORCEMENT SPLICES TABLE.
7.1. WHERE EMBEDMENT IS DIMENSIONED ON THE DRAWINGS, SUCH DIMENSIONS SHALL APPLY.
7.2. WHERE THE DRAWINGS INDICATE TENSION OR COMPRESSION EMBEDMENT, IT SHALL BE AS NOTED IN THE REINFORCEMENT SPLICES TABLE.
7.3. WHERE NO EMBEDMENT OR EMBEDMENT TYPE IS INDICATED ON THESE DRAWINGS, IT SHALL BE A TENSION EMBEDMENT EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION EMBEDMENT.
8. OPENINGS IN WALLS AND SLABS - UNLESS NOTED OTHERWISE PROVIDE TWO 15M BARS EACH SIDE, ONE EACH FACE, EXTENDING 600 mm PAST THE OPENINGS, PLUS TWO 15M DIAGONAL BARS 1.5 TIMES THE LENGTH OF SHORTEST SIDE OF OPENING OR MINIMUM 500 mm AND MAXIMUM 1500 mm IN LENGTH AT EACH CORNER.
9. DO NOT CUT REINFORCEMENT AT OPENINGS WHERE IT CAN BE SPREAD CONTINUOUS AROUND OPENING.
10. ALL REINFORCEMENT TO BE SUPPORTED AT 900 mm MAXIMUM SPACING.

CONCRETE FORMWORK

- 1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CAN/CSA-S269.3.
2. REFER TO SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR CHAMFERS ON CORNERS .

STRUCTURAL STEEL

- 1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-S16 AND THE CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL.

- 2. STEEL TO BE FABRICATED AND ERECTED BY A SHOP CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA-W47.1, DIVISION 1 OR 2.1 ONLY.
3. SUBMIT SHOP DRAWINGS SHOWING ALL STRUCTURAL STEEL MEMBERS FOR REVIEW PRIOR TO FABRICATION. WELDING TO CONFORM TO CSA-W59.
4. WELDING TO REINFORCEMENT STEEL ONLY BY A SHOP CERTIFIED TO CSA-W186 WITH REINFORCEMENT CONFORMING TO CSA-G30.18, GRADE 400W.
5. SHOP GALVANIZING TO CONFORM TO CAN/CSA-G164.
6. ALL EXPOSED WELDS TO BE CONTINUOUS. GRIND ALL EXPOSED WELDS SMOOTH, INCLUDING PAINTED STEEL.
7. SUPPLY STEEL WITH PROPERTIES NOTED IN STEEL GRADES TABLE.
8. CONNECTIONS NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA AT THE STEEL FABRICATOR'S EXPENSE.
9. UNLESS NOTED OTHERWISE, DESIGN CONNECTIONS FOR NON-COMPOSITE BEAMS FOR A FACTORED SHEAR FORCE EQUAL TO 80% OF THE TOTAL BEAM LOAD TABULATED IN THE CISC HANDBOOK OF STEEL CONSTRUCTION.
10. UNLESS NOTED OTHERWISE, DESIGN MOMENT CONNECTIONS FOR NON-COMPOSITE BEAMS FOR A FACTORED MOMENT EQUAL TO THE FULL MOMENT CAPACITY OF THE SMALLER MEMBER JOINED.
11. DESIGN BRACE CONNECTIONS FOR THE LOADS SHOWN ON THE DRAWINGS.
12. PROVIDED A MINIMUM OF 2 BOLTS IN BOLTED CONNECTIONS.
13. PROVIDE 12 mm PLATE STIFFENERS EACH SIDE OF BEAM WHERE AT ALL BEARING CONNECTIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
14. DO NOT SPLICE MATERIAL WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. WHERE GRANTED, A COMPLETE NON-DESTRUCTIVE EXAMINATION WILL BE MANDATORY
15. PROVIDE 10 mm WEEP HOLES AT TOP AND BOTTOM OF ALL HSS COLUMNS.
16. ALL GROUT UNDER BEARING PLATES AND BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 50 MPa, INSTALLED IN ACCORDANCE WITH THE SPECIFICATION AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE GROUT WEEP HOLES IN COLUMN BASE PLATES WHERE SHOWN.
17. SQUARE CUT OR FULL STRENGTH WELD ALL COLUMNS AT BASE PLATES AND AT TOP WHERE BEARING UNDER CONTINUOUS BEAMS.
18. ALL BOLTS AND WOOD FASTENERS PERMANENTLY EXPOSED TO THE ATMOSPHERE SHALL BE GALVANIZED OR ZINC PLATED.
19. ALL WELDS SHALL HAVE AN ULTIMATE STRENGTH OF NOT LESS THAN 490 MPa (E49XX ELECTRODES).
20. CLEAN, PREPARE AND PRIME ALL STRUCTURAL STEEL COLUMNS AND ANCHOR PLATES. DO NOT PRIME ANCHOR BOLTS. SURFACES IN CONTACT WITH CONCRETE OR ELEMENTS FORMING PART OF A SLIP-CRITICAL CONNECTION. DO NOT PRIME BEAMS OR STEEL JOIST PRODUCTS TO ALLOW FOR EASE OF APPLICATION OF FIRE PROOFING.
21. TOUCH-UP FIELD WELDS, CONNECTIONS AND ABRASIONS TO MATCH THE SHOP PRIMER.

STEEL DECK

- 1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CAN/CSA-S136.
2. WELDING TO CONFORM TO CSA-W59. PLATE WASHERS MAY BE ELIMINATED ONLY IF WELDERS OR WELDING OPERATORS HAVE BEEN CERTIFIED BY THE CANADIAN WELDING BUREAU WITH QUALIFIED PROCEDURES FOR WELDING METAL DECK.
3. SHEET STEEL TO CONFORM TO ASTM A653/A653M, GRADE A STRUCTURAL QUALITY GRADE 230.
4. STEEL ROOF DECK - UNLESS NOTED OTHERWISE ON DRAWINGS, 38mm DEEP PREFORMED ZINC-COATED STEEL IN ACCORDANCE WITH CSSBI 10M. FLUTES SPACED AT 150mm MAXIMUM ON CENTER.
5. UNLESS NOTED OTHERWISE, LIMIT ALLOWABLE DEFLECTION FOR STEEL ROOF DECK TO THE FOLLOWING:
a) LIVE LOAD SPAN/360
b) TOTAL LOAD SPAN/240
6. DECK UNITS TO BE CONTINUOUS OVER AT LEAST THREE SUPPORTS WHERE STRUCTURAL FRAMING PERMITS.
7. PROVIDE L76x76x6.4 ANGLE TO SUPPORT DECK EDGES AT ALL OPENINGS UP TO 300mm IN SIZE. FOR LARGER OPENINGS, REFER TO TYPICAL DETAILS.

TIMBER

- 1. ALL WOODEN MEMBERS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF CSA 086.
2. UNLESS NOTED OTHERWISE, ROOF SHEATHING SHALL BE 18.5mm T&G CANADIAN SOFTWOOD PLYWOOD, SHEATHING/STANDARD GRADE (SHG). BLOCK AND NAIL WITH 3" NAILS @ 100mm O/C AT PANEL EDGES. NAILS INTERIOR OF PANELS WITH 3" NAILS @ 200mm O/C.
3. ENSURE ALL 75mm LONG NAILS HAVE A MINIMUM DIAMETER OF 3.66mm AND ALL 64mm LONG NAILS HAVE A MINIMUM DIAMETER OF 3.25mm. ALL SHEAR UNLESS NOTED OTHERWISE, ALL DIMENSIONAL LUMBER SHALL BE SPECIES SPRUCE-PINE-FIR, GRADE No.1 / No.2.
4. SIP WALL ANCHORAGE TO MAIN FLOOR SLAB AND FOUNDATION SHALL BE AS SHOWN ON THE DRAWING.
5. INSTALL ROOF AND WALL ANCHORAGE AS PER DETAILS AND SCHEDULES.
6. ALL BOLTS CONNECTING WOOD TO WOOD OR WOOD TO CONCRETE SHALL BE GRADE ASTM A307. BOLTS SHALL BE GALVANIZED EXCEPT THOSE EMBEDDED INTO CONCRETE
7. ALL DIMENSIONAL LUMBER TO BE EXPOSED TO THE ATMOSPHERE SHALL BE PRESSURE TREATED OR FINISHED WITH A WEATHER RESISTANT COATING. ALL ENGINEERED LUMBER (LVL, PSL & GLULAM MEMBERS) TO BE EXPOSED TO THE ATMOSPHERE SHALL BE TREATED WITH A WEATHER RESISTANT COATING APPLIED AT THE MANUFACTURER'S FACILITY PRIOR TO SHIPMENT TO SITE.
8. RETREAT ALL CUT ENDS OF PRESSURE TREATED LUMBER WHICH REQUIRE ON-SITE CUTTING
9. ALL BOLTS AND WOOD FASTENERS PERMANENTLY EXPOSED TO THE ATMOSPHERE

SHALL BE GALVANIZED OR ZINC PLATED.

- 11. DESIGN CONNECTIONS IN ACCORDANCE WITH CSA-086 AND CSA-S16 FOR THE LOADS INDICATED ON THE DRAWINGS.
12. PROVIDED A MINIMUM OF 2 BOLTS IN BOLTED CONNECTIONS.
13. INSTALL SILL GASKET UNDER THE ALL SILL PLATES IN CONTACT WITH CONCRETE.

PREFABRICATED WOOD TRUSSES

- 1. MANUFACTURER SHALL BE RESPONSIBLE FOR USING LUMBER OF SUFFICIENT STRENGTH TO SAFELY CARRY ALL LOADS INDICATED ON THE DRAWINGS. PROVIDE ALL NECESSARY BLOCKING, BRACING, STIFFENERS AND CONNECTIONS IN ACCORDANCE WITH CSA-086.
2. ALL STRUCTURAL COMPOSITE LUMBER SHALL BE DESIGNED IN ACCORDANCE WITH CSA-086.
3. CONTRACTOR TO ENSURE TRUSS LOCATIONS ARE COORDINATED WITH ROOF PENETRATIONS, SEE ARCH. AND MECH. DRAWINGS
4. SUBMIT CHECKED SHOP DRAWINGS SIGNED AND SEALED BY PROFESSIONAL ENGINEER IN THE YUKON TERRITORY FOR REVIEW PRIOR TO FABRICATION.
5. CERTIFY AT THE COMPLETION OF WORK, ALL FABRICATED TRUSSES, SIP PANELS, STRUCTURAL COMPOSITE LUMBER AND ASSOCIATED COMPONENTS ARE FABRICATED AND ERECTED UNDER THE SEAL AND SIGNATURE OF THE CONTRACTORS' PROFESSIONAL STRUCTURAL ENGINEER RESPONSIBLE FOR THIS WORK.
6. CERTIFY THAT ALL FABRICATED TRUSSES, JOISTS, STRUCTURAL COMPOSITE LUMBER AND ASSOCIATED COMPONENTS ARE CAPABLE OF SUPPORTING ALL THE LOADS AND FORCES SPECIFIED IN THE CONTRACT SPECIFICATIONS AND ON THE DRAWINGS.
7. CERTIFY THAT ALL COMPONENTS ARE FABRICATED AND ERECTED IN ACCORDANCE WITH THE REVIEWED SHOP DRAWINGS.

STRUCTURAL INSULATED PANELS

- 1. MANUFACTURER SHALL BE RESPONSIBLE FOR USING LUMBER OF SUFFICIENT STRENGTH TO SAFELY CARRY ALL LOADS INDICATED ON THE DRAWINGS. PROVIDE ALL NECESSARY BLOCKING, BRACING, STIFFENERS AND CONNECTIONS IN ACCORDANCE WITH CSA-086.
2. UNLESS NOTED OTHERWISE, LIMIT ALLOWABLE DEFLECTION FOR WALL SIP PANELS TO THE FOLLOWING:
- LIVE LOAD - SPAN/240
3. ALL STRUCTURAL COMPOSITE LUMBER SHALL BE DESIGNED IN ACCORDANCE WITH CSA-086.
4. CONTRACTOR TO ENSURE WALL & CEILING OPENINGS ARE COORDINATED WITH ARCH. AND MECH. DRAWINGS
5. SUBMIT CHECKED SHOP DRAWINGS SIGNED AND SEALED BY PROFESSIONAL ENGINEER IN THE YUKON TERRITORY FOR REVIEW PRIOR TO FABRICATION.
6. CERTIFY AT THE COMPLETION OF WORK SIP PANELS AND ASSOCIATED COMPONENTS ARE FABRICATED AND ERECTED UNDER THE SEAL AND SIGNATURE OF THE CONTRACTORS' PROFESSIONAL STRUCTURAL ENGINEER RESPONSIBLE FOR THIS WORK.
7. CERTIFY THAT ALL FABRICATED SIP PANELS ASSOCIATED COMPONENTS ARE CAPABLE OF SUPPORTING ALL THE LOADS AND FORCES SPECIFIED IN THE CONTRACT SPECIFICATIONS AND ON THE DRAWINGS.
8. CERTIFY THAT ALL COMPONENTS ARE FABRICATED AND ERECTED IN ACCORDANCE WITH THE REVIEWED SHOP DRAWINGS.



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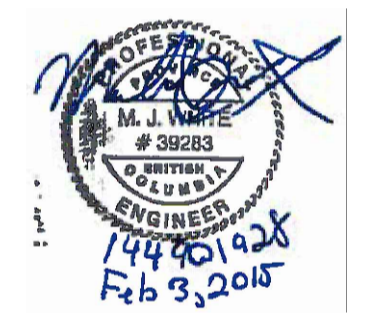


Table with 3 columns: Revision/Revisión, Description/Description, Date/Date. Row 1: 0, ISSUED FOR TENDER, 15/02/22

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

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Designed by/Concept par MLW

Drawn by/Dessiné par PP

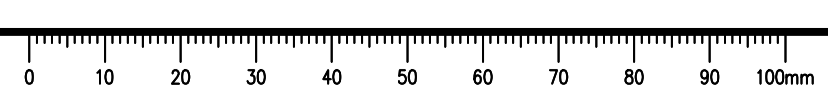
PWGS&C Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services, Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin

GENERAL NOTES & SPECIFICATION

Table with 3 columns: Project No./No. du projet, Sheet/Feuille, Revision no./La Révision no. Row 1: R.071363.001, S-001, 0

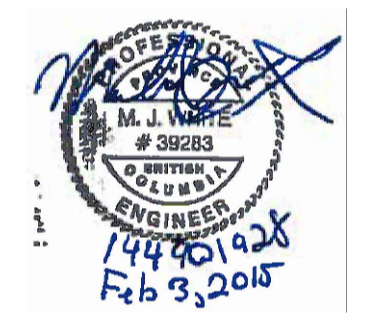




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CLIMATIC INFORMATION	
TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES	
SNOW LOAD (1/50), S _s	8.5 kPa
SNOW LOAD (1/50), S _r	0.3 kPa
HOURLY WIND PRESSURE (1/50)	0.45 kPa
SEISMIC RESPONSE, S _a (0.2)	0.896
SEISMIC RESPONSE, S _a (0.5)	0.590
SEISMIC RESPONSE, S _a (1.0)	0.322
SEISMIC RESPONSE, S _a (2.0)	0.174
SEISMIC RESPONSE, P _{GA}	0.393

SITE INFORMATION	
TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES	
IMPORTANCE CATEGORY	POST-DISASTER
WIND EXPOSURE TYPE	OPEN TERRAIN
INTERNAL PRESSURE CATEGORY	2
FOUNDATION SITE CLASS	F
F _a	1.1
F _v	1.2
SPREAD FOOTING FACTORED BEARING CAPACITY (ULS/SLS)	213kPa/330kPa

DESIGN LOADS	
TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES	
MAIN FLOOR	
SUPERIMPOSED DEAD LOAD	1.5 kPa
LIVE LOAD	4.8 kPa
ROOFS	
SUPERIMPOSED DEAD LOAD	1.0 kPa
BASIC SNOW LOAD	8.90 kPa
ACCUMULATED SNOW LOAD	REFER TO [PLANS]
NET FACTORED WIND UPLIFT LOAD	REFER TO [PLANS]
CEILING	
SUPERIMPOSED DEAD LOAD	2.0 kPa
SIP WALL WIND LOAD	
BASIC WIND LOAD	1.2kPa/-1.3kPa

STEEL GRADES	
TO BE READ IN CONJUNCTION WITH STRUCTURAL STEEL DESIGN NOTES	
MEMBER TYPE	GRADE
ROLLED W-SHAPES, TEES	CSA G40.21 350W OR ASTM A992 GRADE 50
WELDED WIDE FLANGE SECTIONS	CSA G40.21 350W

CONTROLLED CONCRETE							
TO BE READ IN CONJUNCTION WITH CAST-IN-PLACE REINFORCED CONCRETE DESIGN NOTES							
CONCRETE ELEMENT	CLASS OF EXPOSURE	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (MPa)	MINIMUM COMPRESSIVE STRENGTH AT 56 DAYS (MPa)	MAXIMUM AGGREGATE SIZE (mm)	AIR CONTENT %	MAX. W/C RATIO	CEMENT TYPE
EXTERIOR CONCRETE							
SPREAD FOOTING	F-2	30	N/A	20	4-7	0.55	GU
STRIP FOOTING	F-2	30	N/A	20	4-7	0.55	
FOUNDATION WALL	F-2	30	N/A	20	4-7	0.55	GU
PIER	F-2	30	N/A	20	4-7	0.55	GU
SLAB ON GRADE-BUILDING	F-2	30	N/A	20	4-7	0.55	GU
SLAB ON GRADE-STEEL CANOPY	C-2	32	N/A	20	5-8	0.45	
APRON	C-2	32	N/A	20	5-8	0.45	GU
INTERIOR CONCRETE							
HOUSEKEEPING PADS	N	20	-	20	-	-	GU

* CORROSION INHIBITING ADMIXTURE REQUIRED

STANDARD END HOOKS								
TO BE READ IN CONJUNCTION WITH CONCRETE REINFORCEMENT DESIGN NOTES								
BAR SIZE	10M	15M	20M	25M	30M	35M	45M	55M
90 HOOK LENGTH	180	260	310	400	510	640	790	1020
180 HOOK LENGTH	140	180	210	280	390	550	670	860

FORCE MODIFICATION FACTORS		
TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES		
LATERAL LOAD RESISTANCE SYSTEM	MODIFICATION FACTOR	
	DUCTILITY RELATED, R _D	OVERSTRENGTH RELATED, R _O
LIMITED DUCTILITY CONCENTRICALLY BRACED FRAME	2.0	1.3

REINFORCEMENT SPLICES					
TO BE READ IN CONJUNCTION WITH CONCRETE REINFORCEMENT DESIGN NOTES					
BAR SIZE	COMPRESSION SPLICE (mm)	TENSION SPLICE (mm)			
		VERTICAL OR BOTTOM HORIZONTAL BARS		TOP HORIZONTAL BARS	
		UNCOATED BARS	EPOXY COATED BARS	UNCOATED BARS	EPOXY COATED BARS
10M	300	400	600	500	650
15M	450	550	850	750	950
20M	600	700	1000	900	1150
25M	750	1100	1650	1400	1850
30M	900	1300	1950	1700	2200
35M	1025	1550	2300	2000	2600

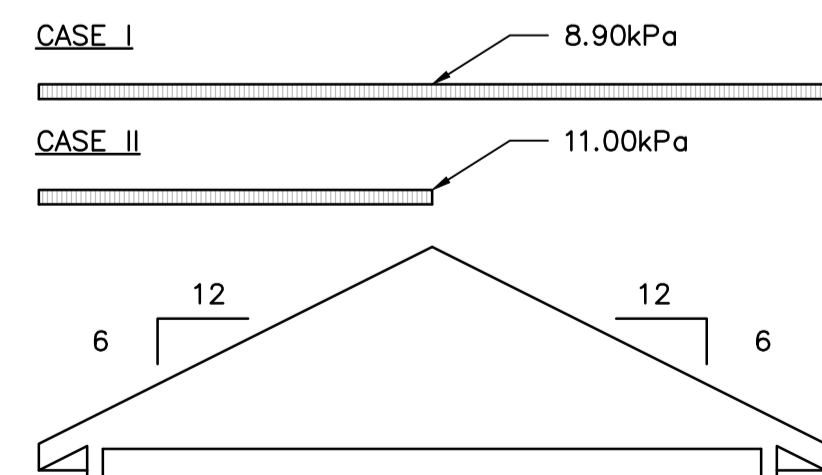
NOTE 1: THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE f'_c = 35 MPa AND ON REINFORCING STEEL f_y = 400 MPa.

NOTE 2: TOP HORIZONTAL BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 300 mm OF CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

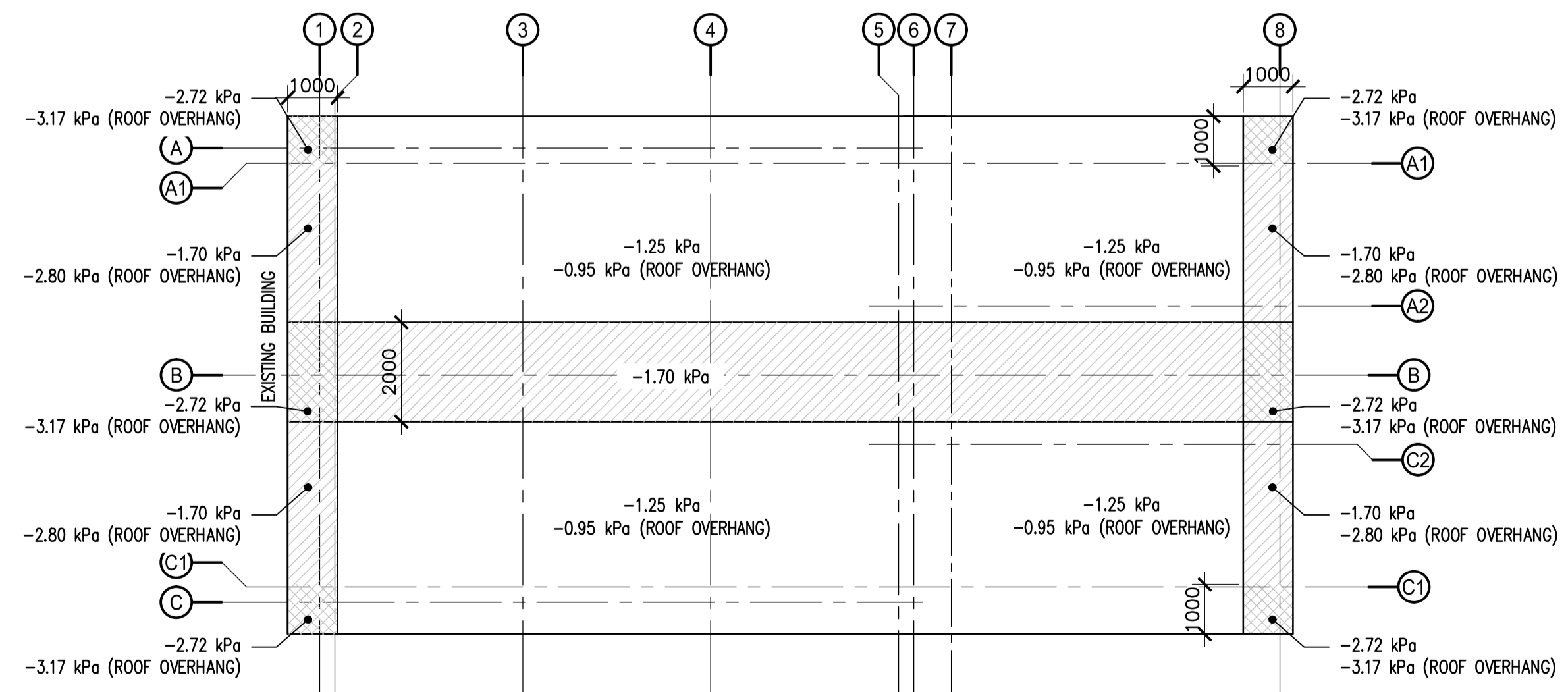
NOTE 3: FOR STANDARD EMBEDMENT DEPTH INTO CONCRETE, DIVIDE BASIC TENSION LAP SPLICE NUMBERS BY 1.3.

CLEAR CONCRETE COVER TO REINFORCEMENT			
TO BE READ IN CONJUNCTION WITH CONCRETE REINFORCEMENT DESIGN NOTES			
EXPOSURE CONDITION	EXPOSURE CLASS		
	N	F-1, F-2, S-1, S-2, S-3	C-XL, C-1, C-2, C-3, A-1, A-2, A-3
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	-	75 mm	75 mm
BEAMS, GIRDERS, COLUMNS, AND PILES TO TIES/STIRRUPS (EXCEPT AS NOTED BELOW)	30 mm	40 mm	60 mm
SLABS, WALLS, JOISTS, SHELLS, AND FOLDED PLATES (EXCEPT AS NOTED BELOW)	20 mm	40 mm	60 mm
RATIO OF COVER TO NOMINAL BAR DIAMETER	1.0	1.5	2.0
RATIO OF COVER TO NOMINAL MAXIMUM AGGREGATE SIZE	1.0	1.5	2.0

NOTE: THE LARGEST COVER REQUIRED FOR ANY ONE ELEMENT SHALL GOVERN.



3 SNOWDRIFT UNFACTORED DIAGRAM
SCALE: NTS



2 ROOF NET FACTORED WIND UP-LIFT DIAGRAM
SCALE: NTS

0	ISSUED FOR TENDER	15/02/02
Revision/	Description/Description	Date/Date

Client/client
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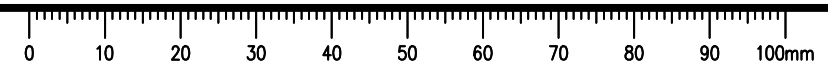
Project title/Titre du projet
PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

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Designed by/Concept par **MJW**
Drawn by/Dessiné par **PP**
PWGSC Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin
SPECIFICATION

Project No./No. du projet R.071363.001	Sheet/Feuille S-002	Revision no./La Révision no. 0
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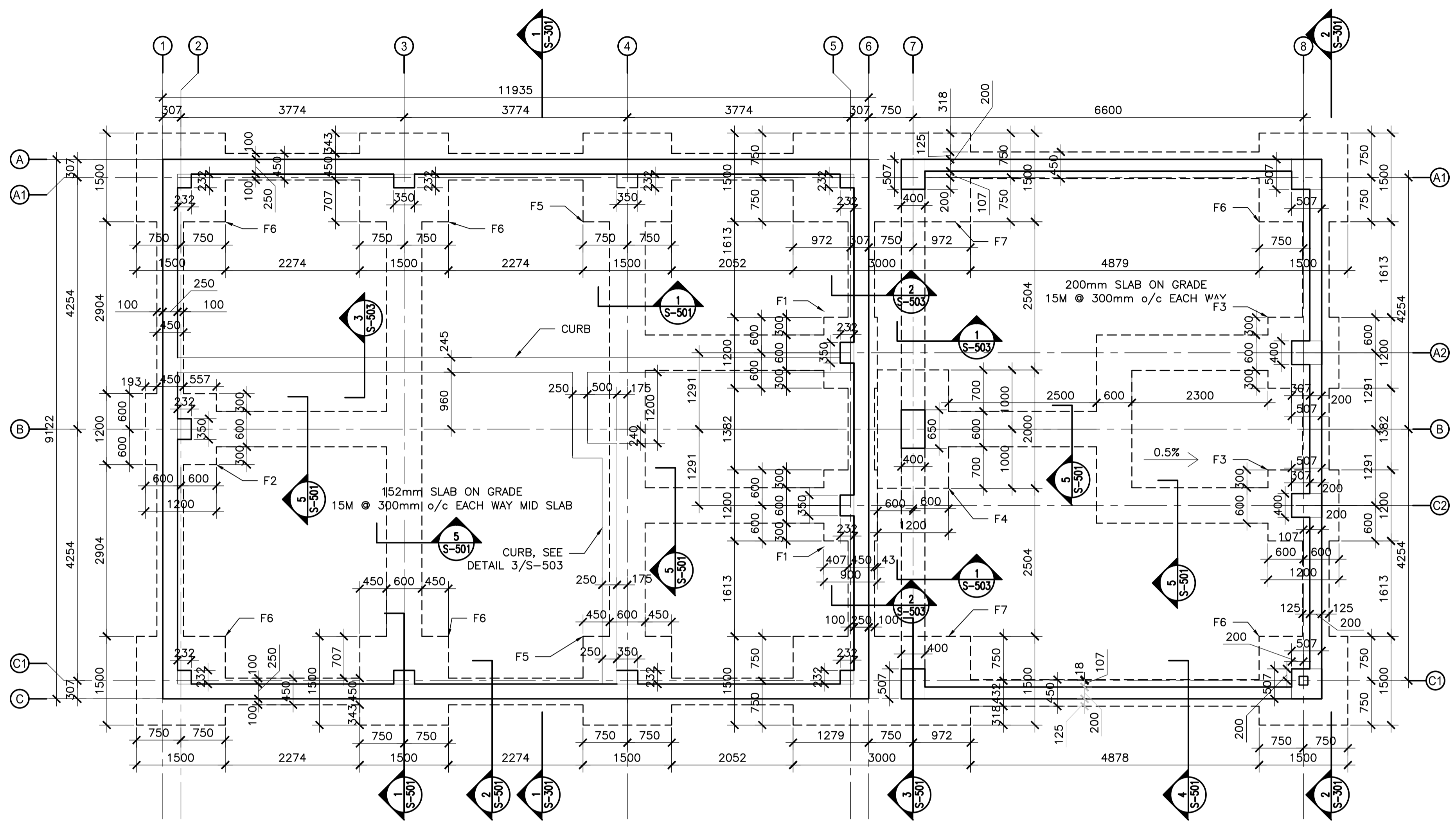
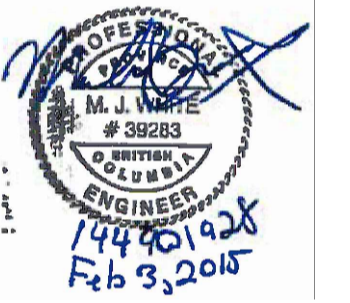




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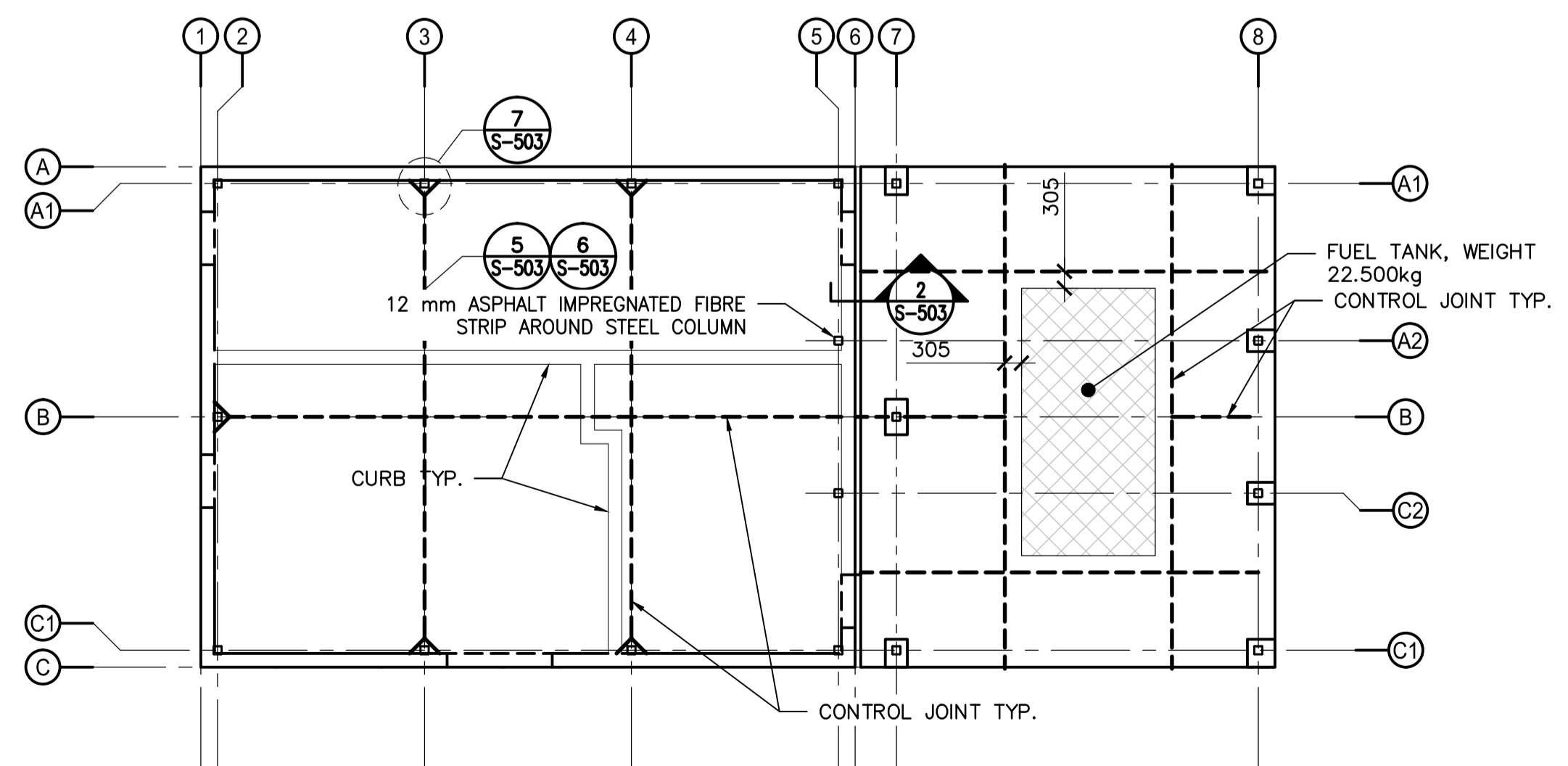
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NOTE:
1. GRIDS A,C,1,6 TO OUTSIDE FACE OF SIP/CONCRETE CURB
2. SLAB ON GRADE ACT AS DIAPHRAGM

1 FOUNDATION AND MAIN FLOOR PLAN
SCALE: 1:50

LABEL	SIZE (mm)	REINFORCEMENT	
		BOTTOM	TOP
F1	900x1200x300	5-20M EQUALLY SPACED SHORT DIRECTION 4-20M EQUALLY SPACED LONG DIRECTION	5-15M EQUALLY SPACED SHORT DIRECTION 4-15M EQUALLY SPACED LONG DIRECTION
F2	1200x1200x300	5-20M EQUALLY SPACED, EACH DIRECTION	5-15M EQUALLY SPACED, EACH DIRECTION
F3	1200x1200x300	5-20M EQUALLY SPACED, EACH DIRECTION	-
F4	1200x2000x400	11-20M EQUALLY SPACED SHORT DIRECTION 7-20M EQUALLY SPACED LONG DIRECTION	11-15M EQUALLY SPACED SHORT DIRECTION 7-15M EQUALLY SPACED LONG DIRECTION
F5	1500x1500x300	7-20M EQUALLY SPACED, EACH DIRECTION	-
F6	1500x1500x300	7-20M EQUALLY SPACED, EACH DIRECTION	7-15M EQUALLY SPACED, EACH DIRECTION
F7	1500x3000x400	16-20M EQUALLY SPACED SHORT DIRECTION 9-20M EQUALLY SPACED LONG DIRECTION	16-15M EQUALLY SPACED SHORT DIRECTION 9-15M EQUALLY SPACED LONG DIRECTION



NOTE:
STRIP & SPREAD FOOTING NOT SHOWN

4 CONTROL JOINT DIAGRAM
SCALE: NTS

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Revision/	Description/Description	Date/Date

Client/client
CANADA BORDER SERVICES AGENCY

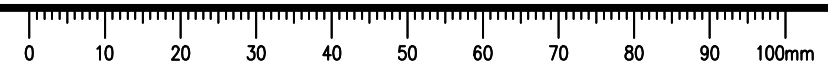
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PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

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MJW
Drawn by/Dessiné par
PP
PWGSC Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSGC

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FOUNDATION AND MAIN FLOOR PLAN

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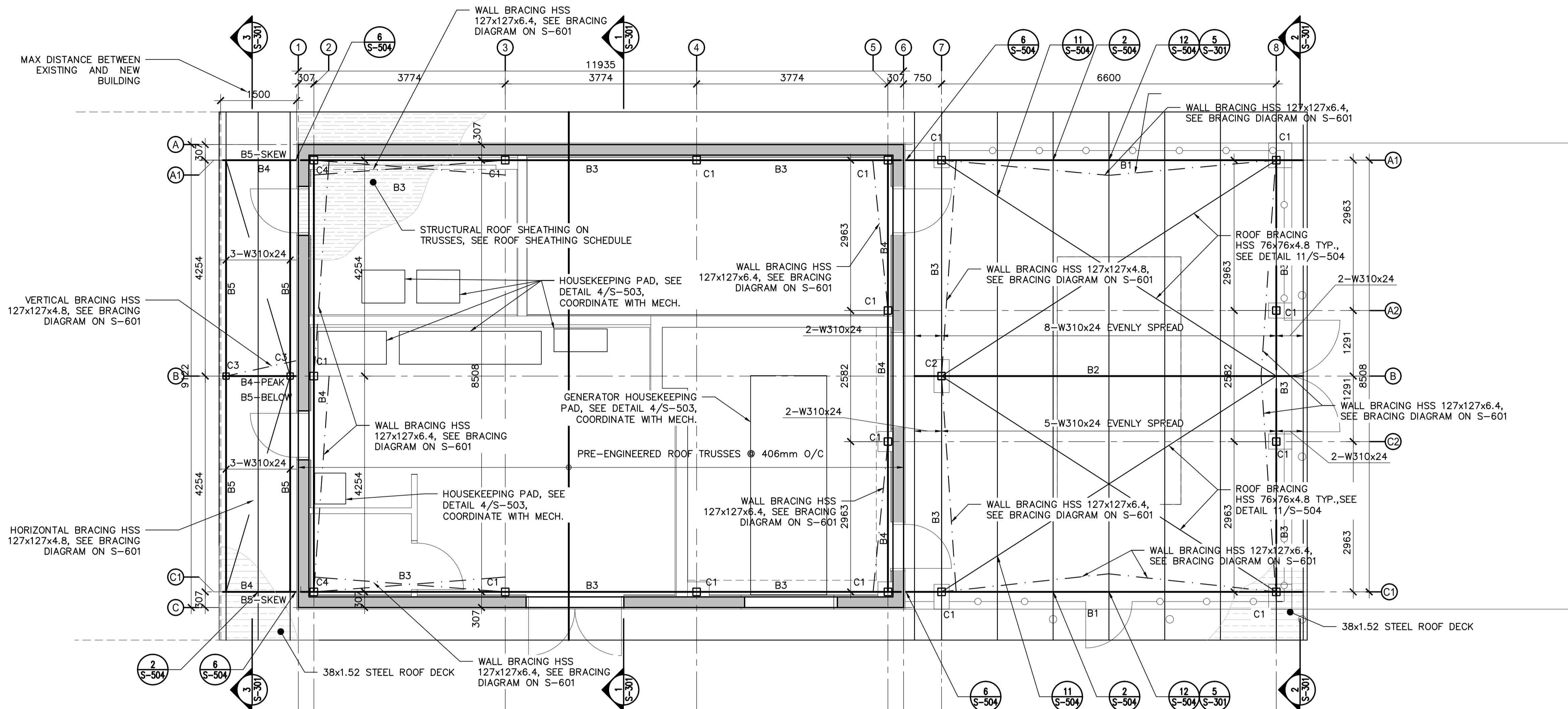
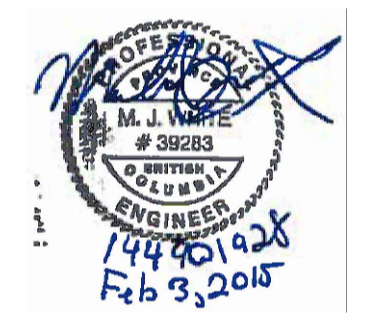




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WALL - SIP PANELS FOR SPECIFICATION SEE ARCH. DRAWINGS, PANELS ARE WIND-LOADED ONLY.

- NOTE:
- GRIDS TO OUTSIDE FACE OF SIP
 - WINDOWS AND DOORS SIZE AND LOCATION COORDINATE WITH ARCH. DRAWINGS
 - MECH. OPENINGS SIZE AND LOCATION COORDINATE WITH MECH. DRAWINGS
 - TOP OF STEEL CANOPY ROOF SHEATHING (38x1.52 STEEL ROOF DECK) SHALL MATCH TOP OF BUILDING ROOF SHEATHING (19mm PLYWOOD).
 - FOR ROOF TRUSS @ GL 1&6 SEE DETAIL 10/S-504
 - USE SUITABLE POWDER DRIVEN FASTENERS FOR GIVEN DECK AND BEAM/JOIST FLANGE THICKNESS
 - FACTORED ROOF BRACING FORCES = 150kN (T/C)
 - SEE S-601 FOR MEMBER AXIAL FORCES

1 ROOF PLAN
S-107 SCALE: 1:50

ROOF / CEILING / SHEAR WALL SCHEDULE			
ROOF / WALL LOCATION	STRUCTURE AND SPACING	SHEATHING	NAILS/SCREWS
ROOF-STEEL CANOPY	W310x24, FOR SPACING SEE PLAN VIEW	38x1.52 STEEL ROOF DECK	POWDER DRIVEN FASTENERS @ 300mm O/C
ROOF-BUILDING	PRE-ENGINEERED ROOF TRUSSES @ 406 mm O/C	19mm PLYWOOD	3" @ 50mm O/C
CEILING	184mm (CORE) SIP PANELS	12.5mm PLYWOOD (BOTH SIDES)	SIP SCREW @ 100mm o/c

- NOTE:
- SCREWS @ 50mm o/c AROUND MECH. OPENING, PROVIDE PROPER BLOCKING.
 - NAILING/SCREWING PATTERNS NOTED IN THE SCHEDULE ABOVE PERTAIN ONLY TO SHEATHING PANEL EDGES. THE INTERIOR OF THE SHEATHING PANELS MAY BE NAILED AT 300MM O/C. NAIL SIZE TO MATCH EDGE NAILS.

UPLIFT TIE SCHEDULE	
STRUCTURE	HURRICANE TIE
TRUSS TO PLATE	HURRICANE TIE PER ROOF TRUSS (DOUBLE PLATE) MAX. FACTORED UPLIFT 4.56kN

SILL PLATE ANCHOR BOLT SCHEDULE	
GRID LINE	ANCHOR BOLT SPECIFICATION
EXTERIOR SIP PANELS	16mm CAST IN PLACE ANCHOR BOLT @ 610mm O/C, EMBEDMENT LENGTH 102mm

- NOTE:
- ALTERNATIVE ANCHOR BOLTS SHALL MEET MIN. STRUCTURAL CAPACITY AS DESIGNED ANCHOR BOLTS

BEAM SCHEDULE	
LABEL	SIZE
B1	W460x52
B2	W530x74
B3	W410x39
B4	W250x33
B5	HSS 127x127x4.8

COLUMN SCHEDULE	
LABEL	SIZE
C1	HSS152x152x4.8
C2	HSS152x152x9.5
C3	HSS 127x127x4.8
C4	HSS 152x152x13

0	ISSUED FOR TENDER	15/02/22
Revision/	Description/Description	Date/Date

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

PLEASANT CAMP PORT OF ENTRY
TENDER A
SITE SERVICES & SITE SERVICES BUILDING

Consultant Signature Only

Designed by/Concept par
MJW
Drawn by/Dessiné par
PP
PWGSC Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin
ROOF PLAN

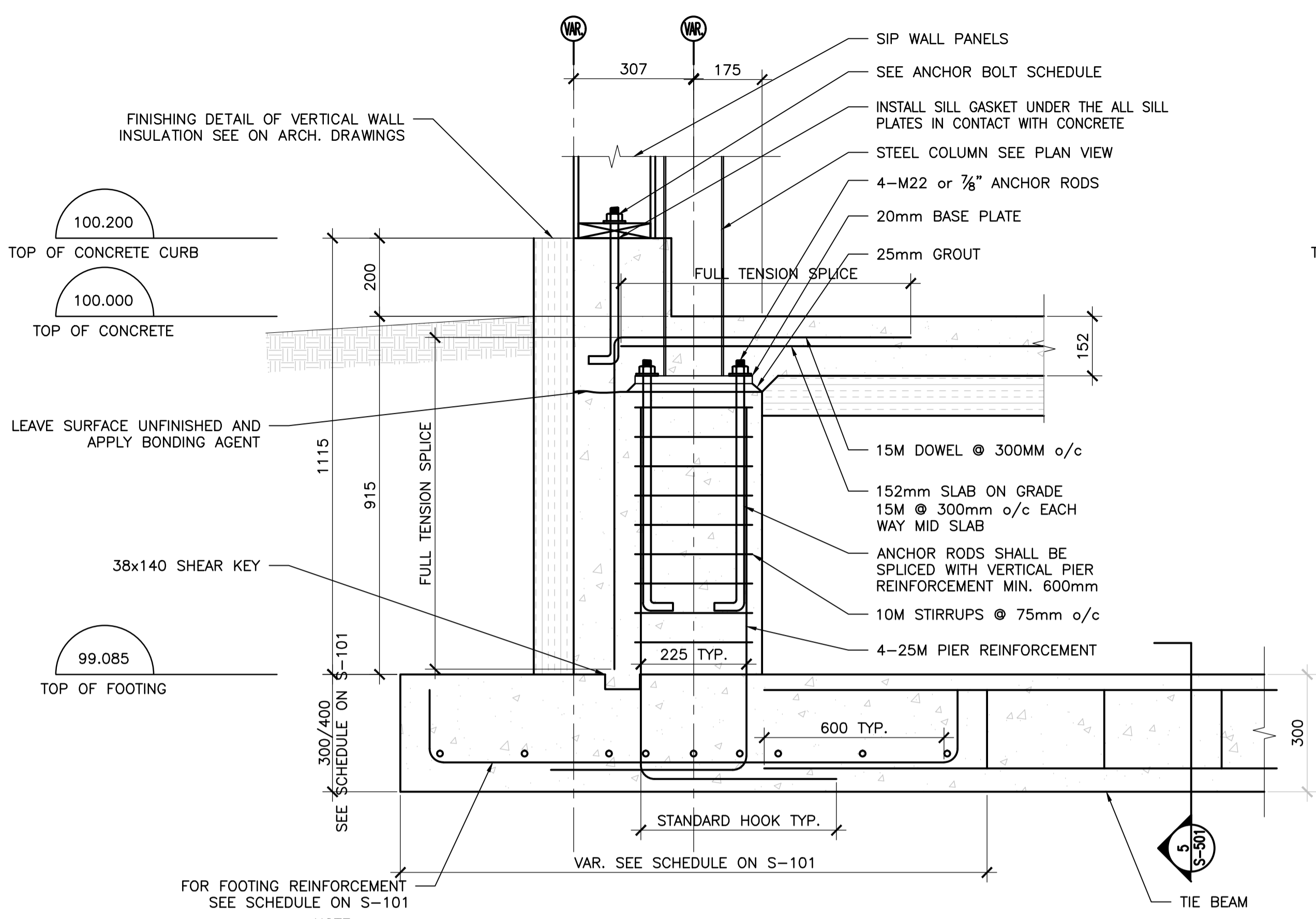
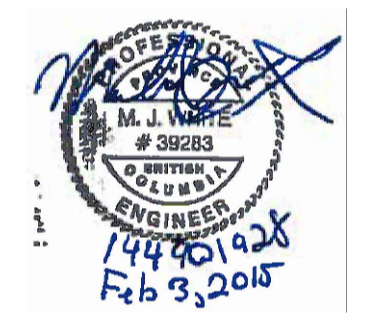
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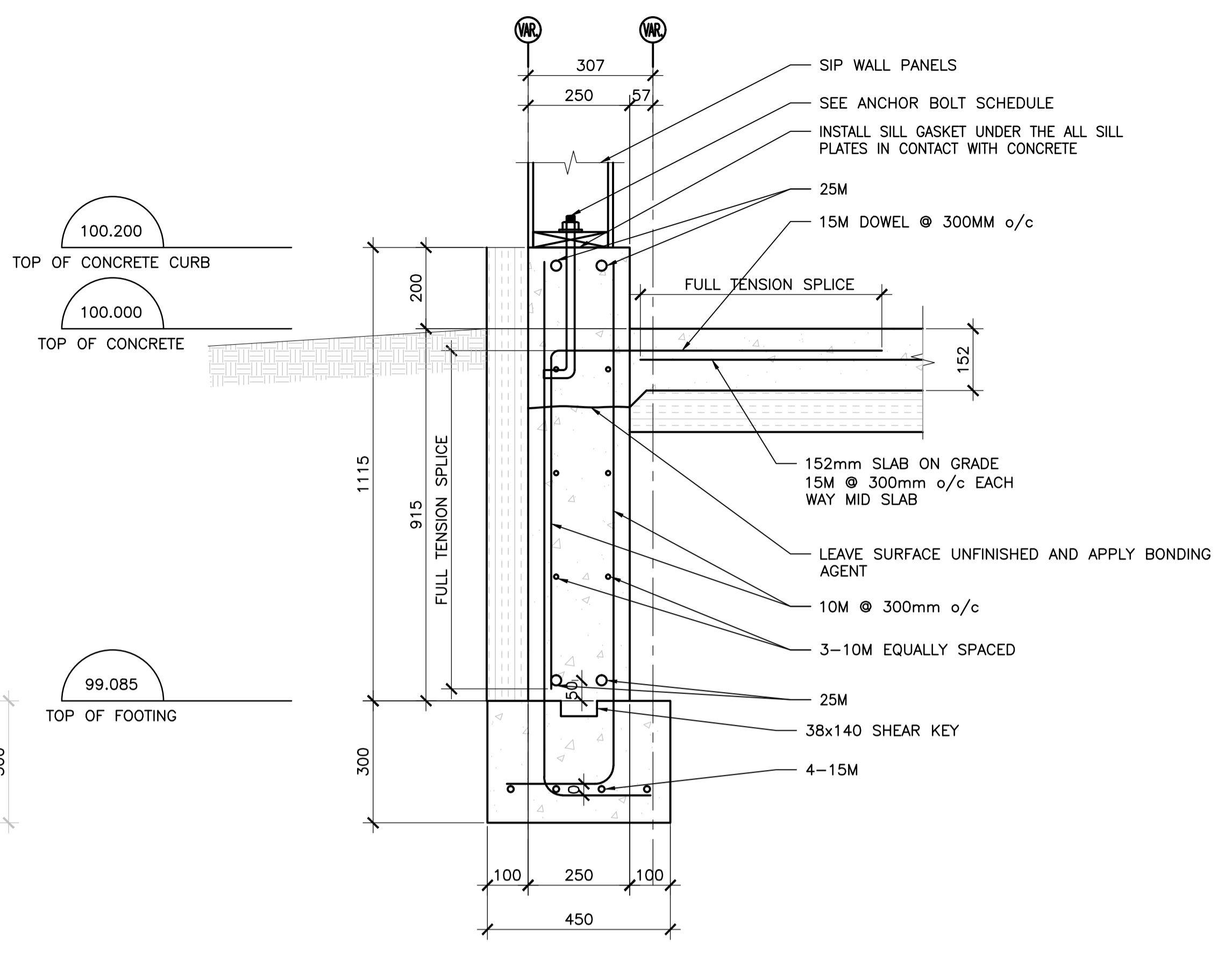
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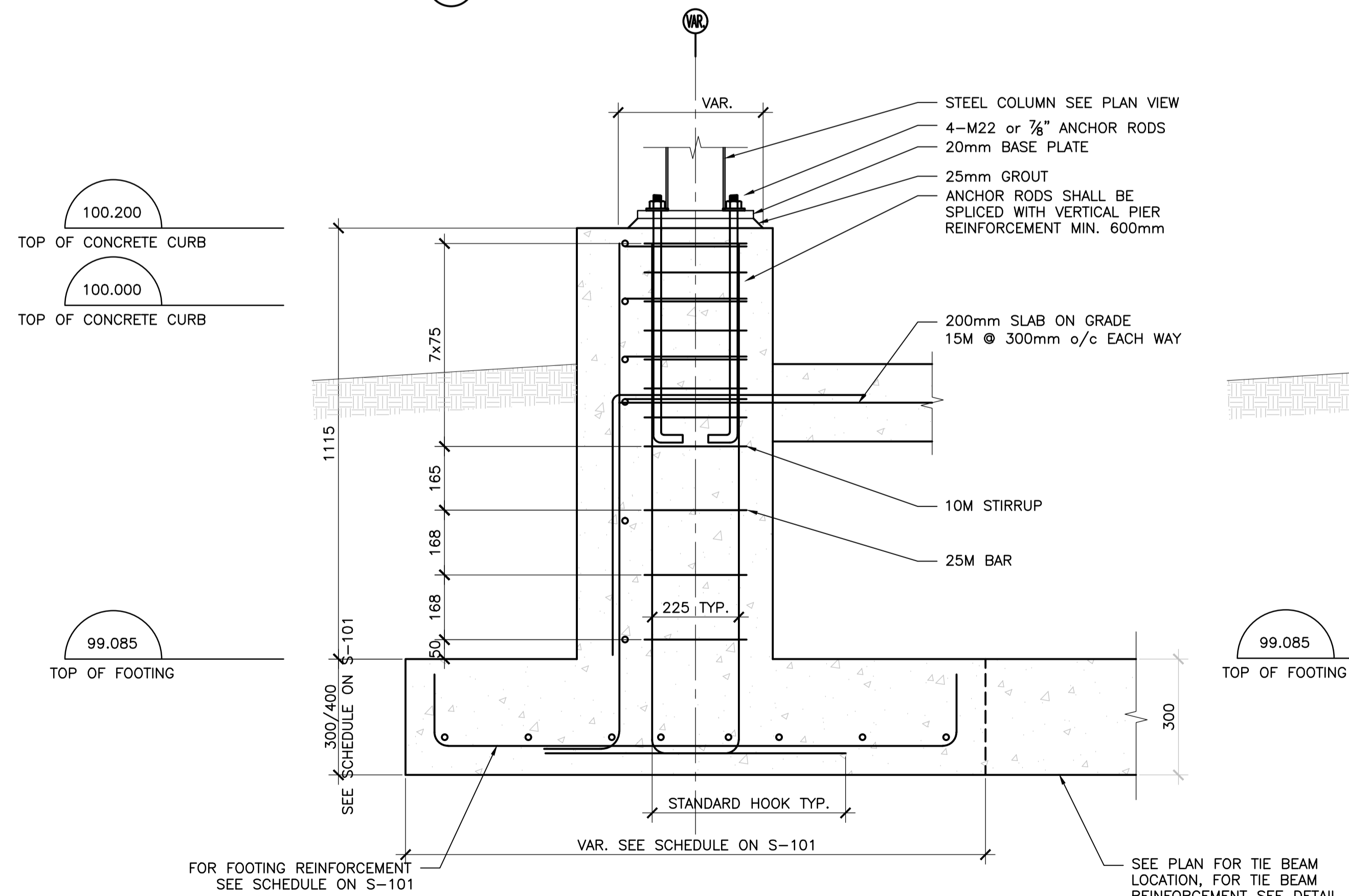
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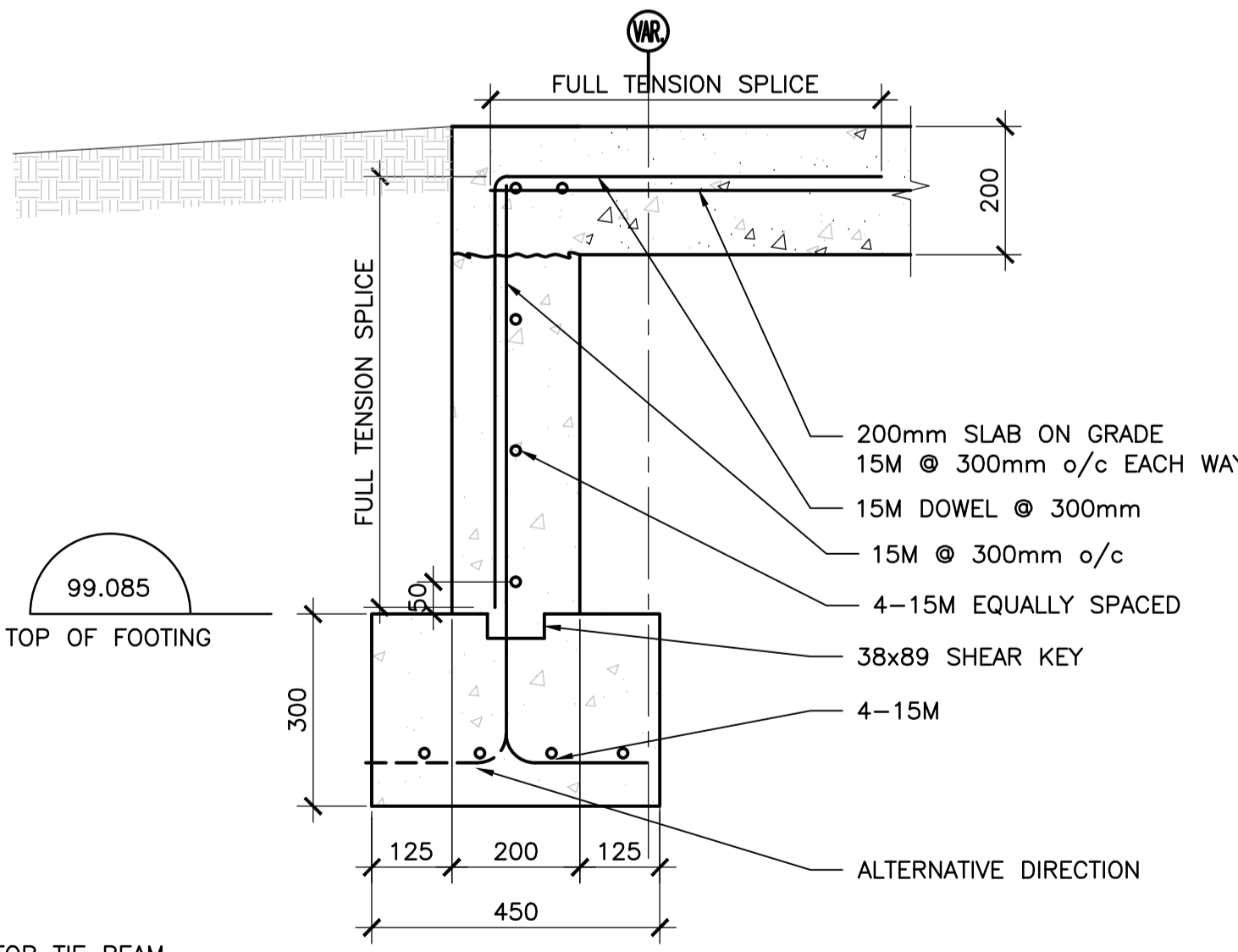
1 SERVICE BUILDING-SPREAD FOOTING DETAIL TYP. S-501 SCALE: 1:10



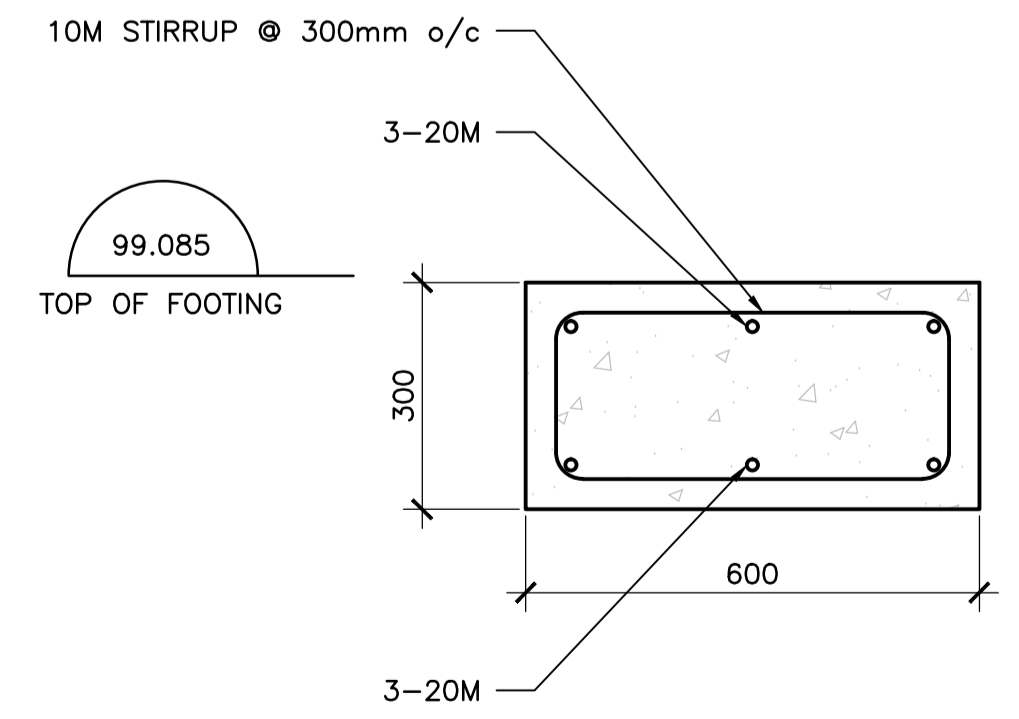
2 SERVICE BUILDING- FOUNDATION WALL DETAIL TYP. S-501 SCALE: 1:10



3 FUEL TANK STEEL CANOPY-SPREAD FOOTING DETAIL TYP. S-501 SCALE: 1:10



4 FUEL TANK STEEL CANOPY- FOUNDATION WALL DETAIL TYP. S-501 SCALE: 1:10



5 FOUNDATION TIE BEAM SECTION TYP. S-501 SCALE: 1:10

NOTE:
1. FOUNDATION WALL REINFORCEMENT, SEE DETAIL 4/S-501
2. PIER REINFORCEMENT SEE DETAILS ON S-502

SEE PLAN FOR TIE BEAM LOCATION, FOR TIE BEAM REINFORCEMENT SEE DETAIL 5/S-501 & 1/S-501

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	15/02/02

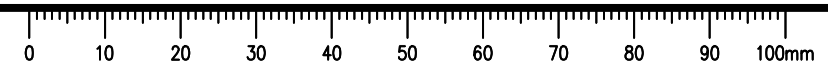
Client/client: CANADA BORDER SERVICES AGENCY

Project title/Titre du projet: PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

Consultant Signature Only: MJW
Designed by/Concept par: MJW
Drawn by/Dessiné par: PP
PWGSC Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.071363.001	S-501	0

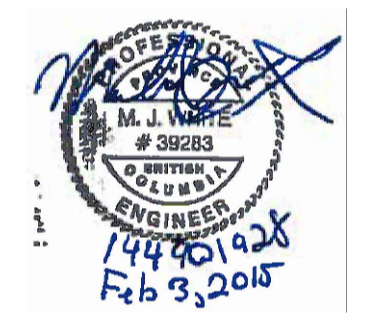




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CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

**PLEASANT CAMP PORT OF ENTRY
TENDER A
SITE SERVICES & SITE SERVICES BUILDING**

Consultant Signature Only

Designed by/Concept par
MJW
Drawn by/Dessiné par
PP

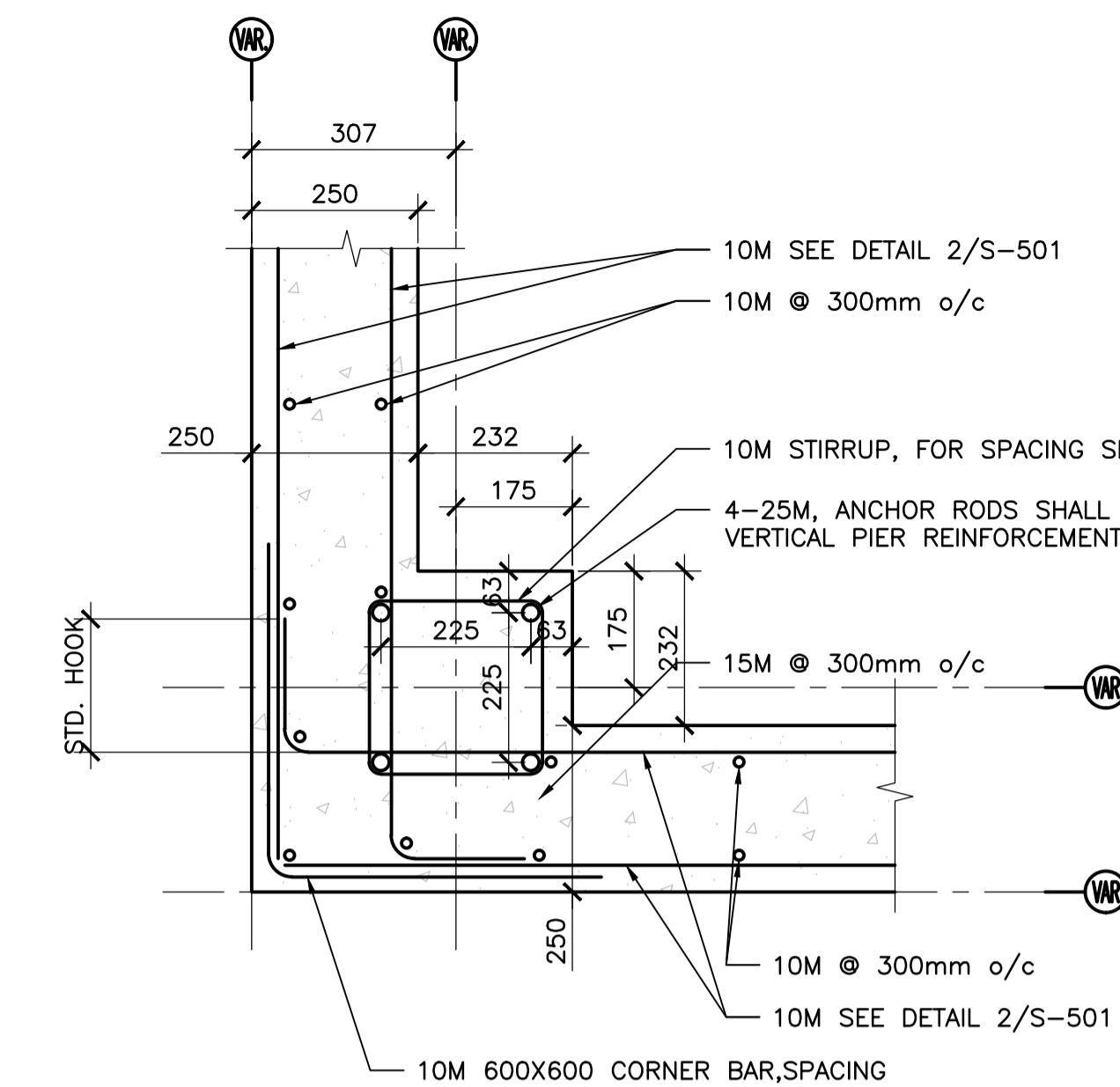
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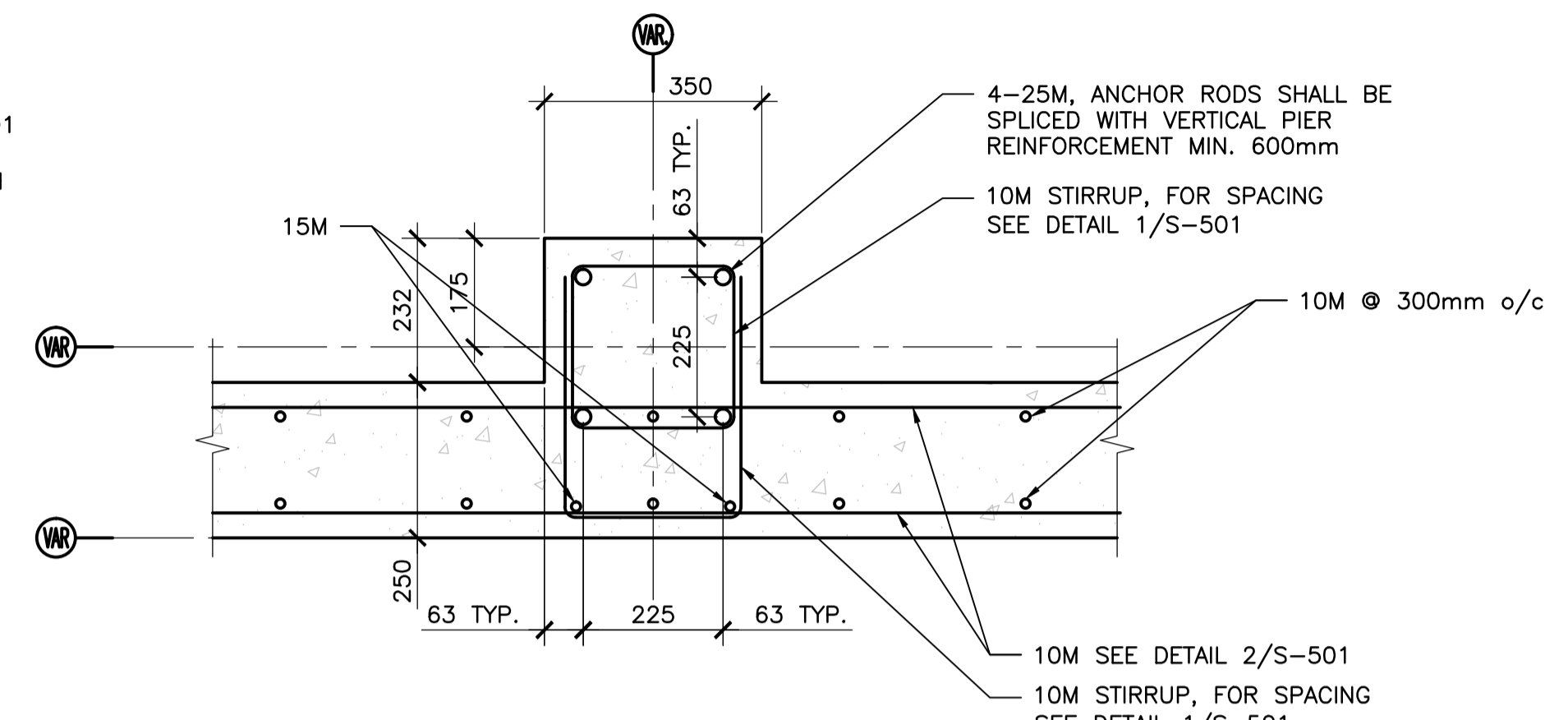
Drawing title/Titre du dessin

DETAILS

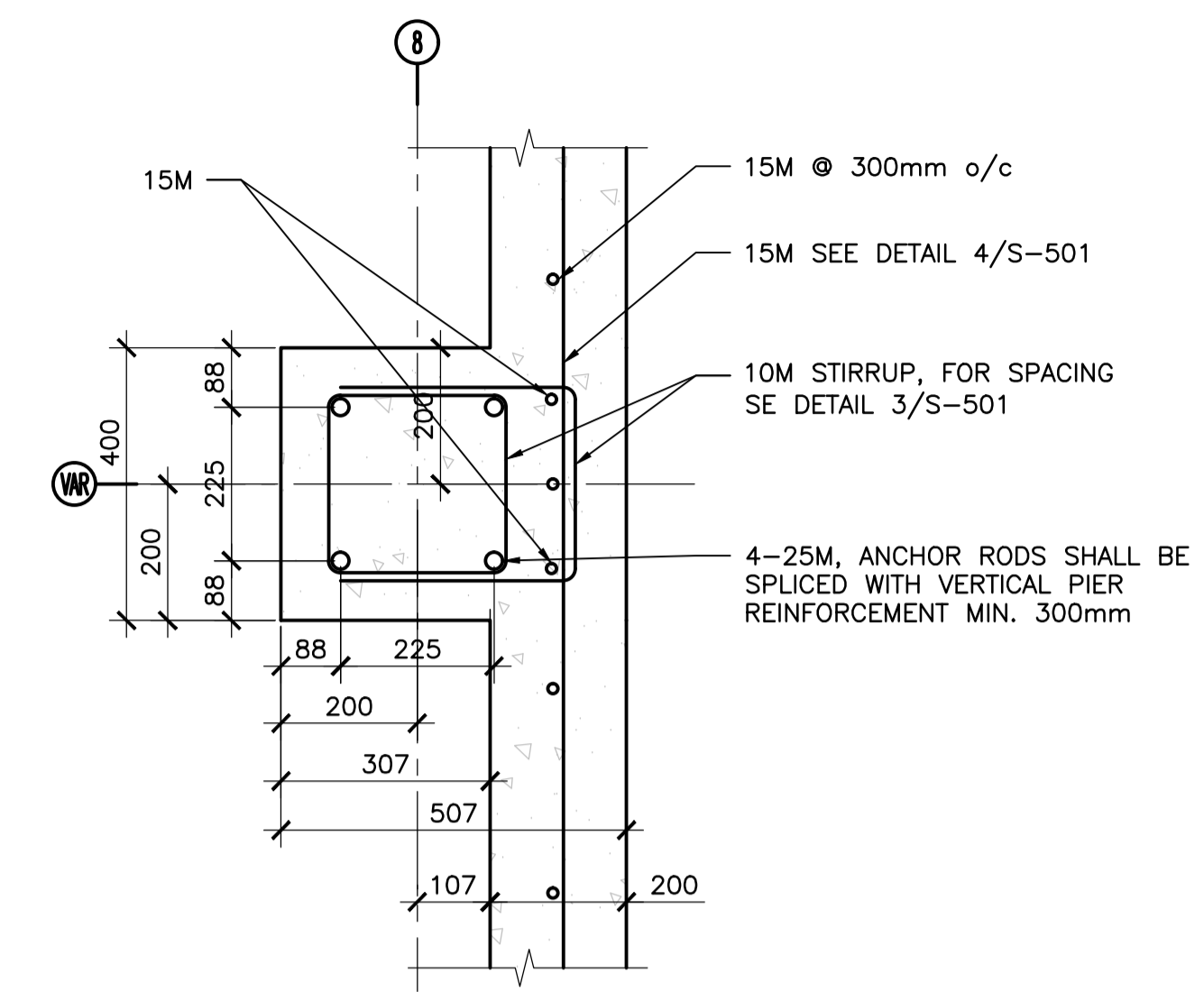
Project No./No. du projet R.071363.001	Sheet/Feuille S-502	Revision no./La Révision no. 0
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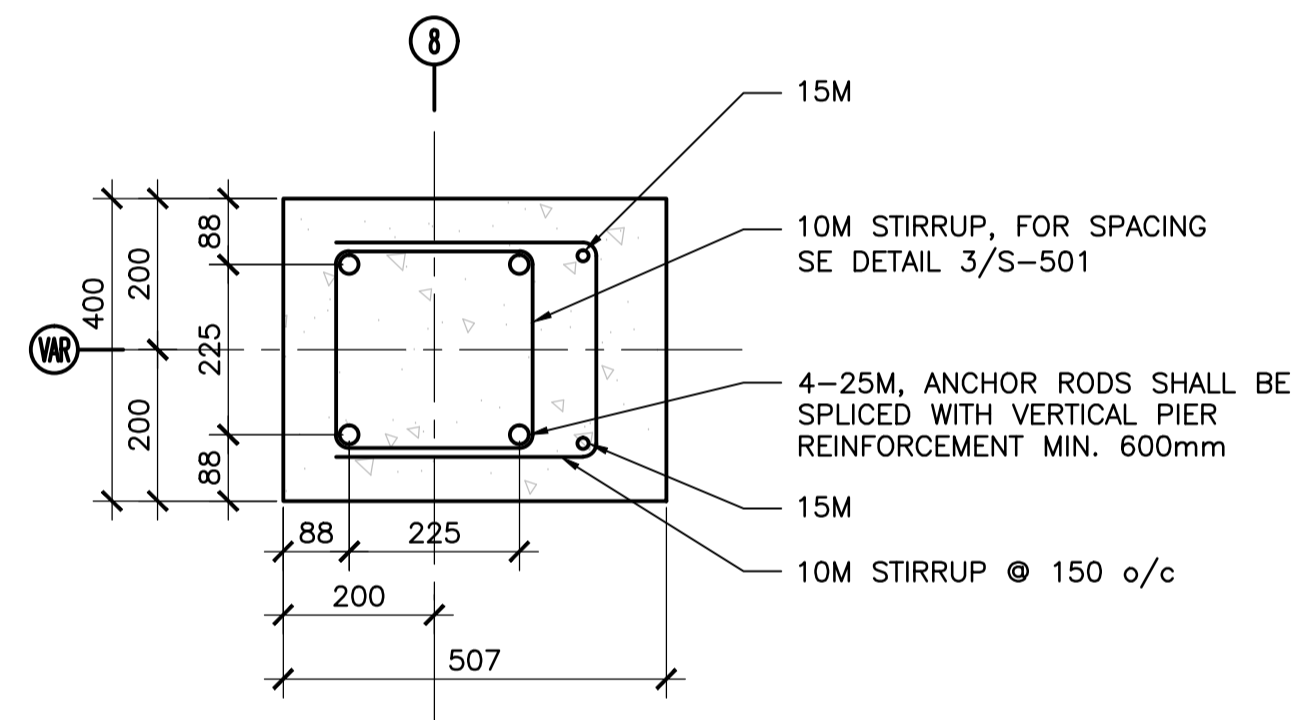
1 SERVICE BUILDING-CORNER PIER REINFORCEMENT TYP. SCALE: 1:10



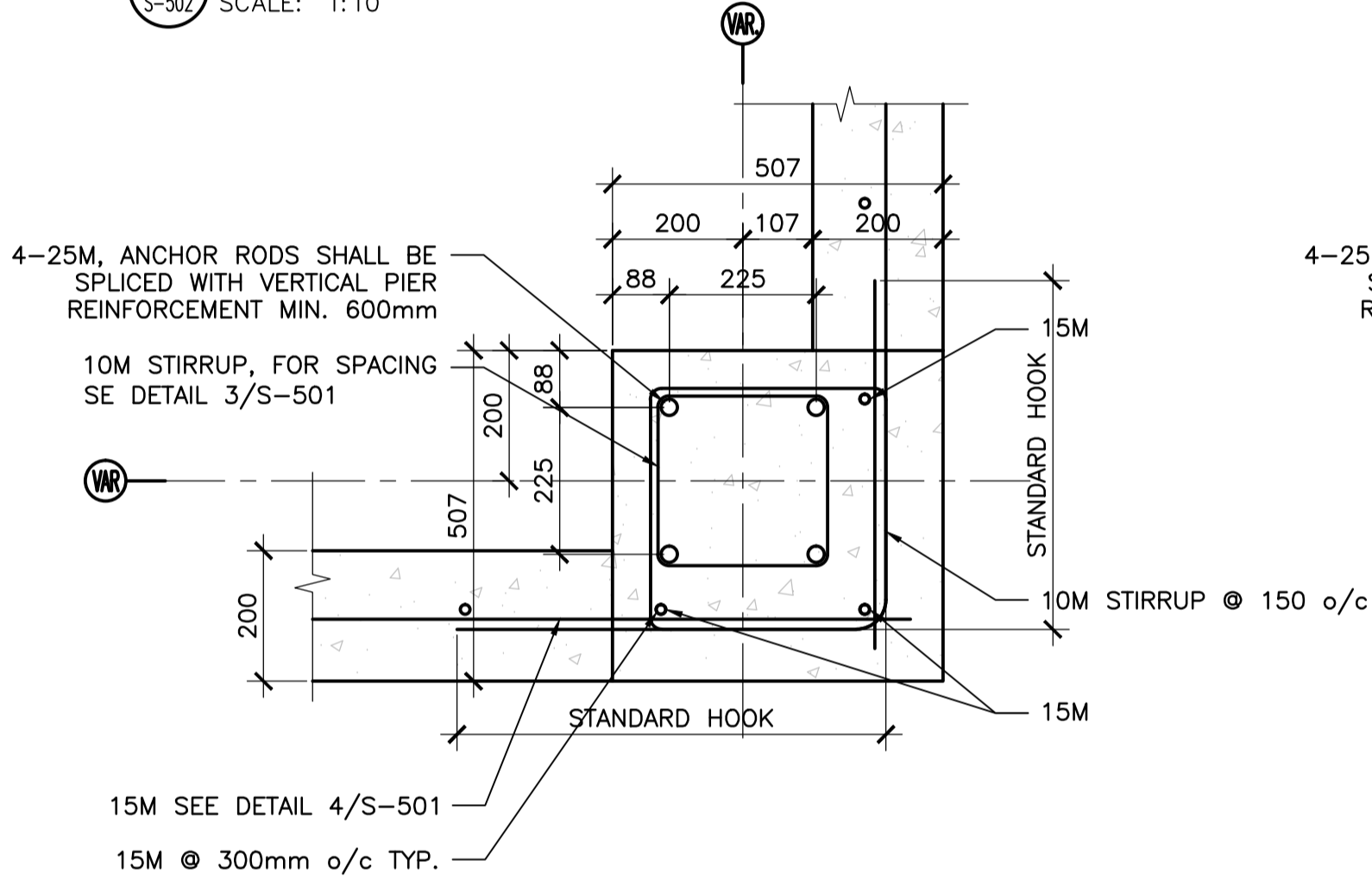
2 SERVICE BUILDING-PIER REINFORCEMENT TYP. SCALE: 1:10



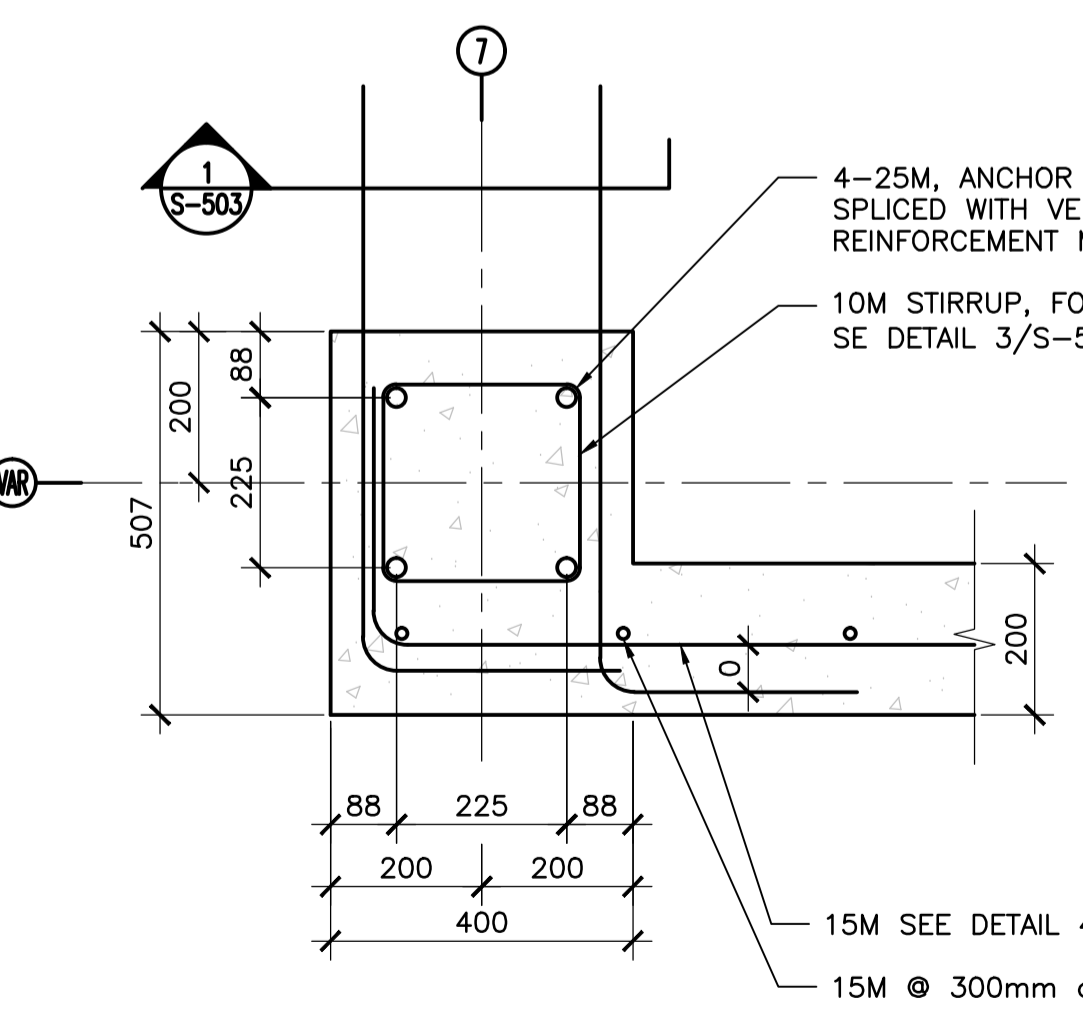
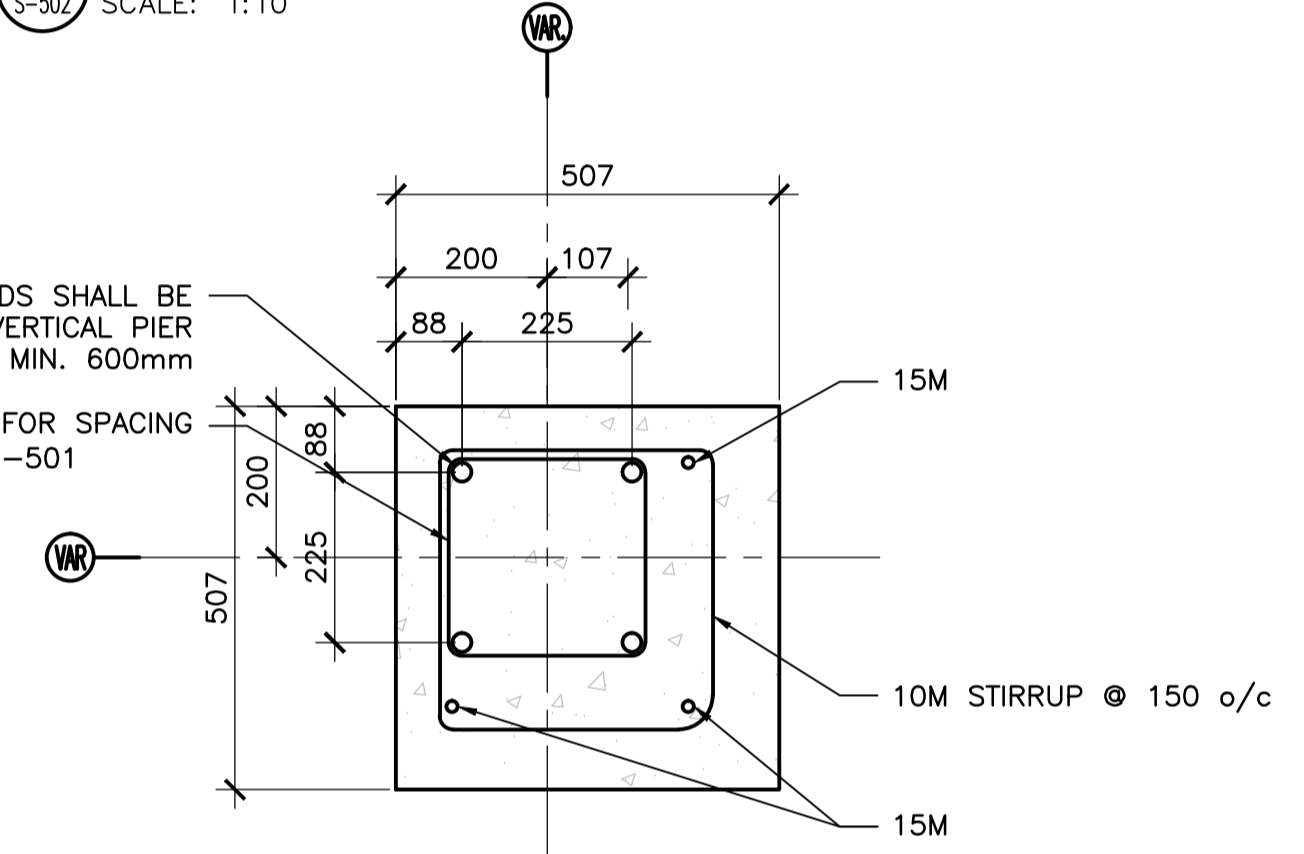
3 FUEL TANK STEEL CANOPY-PIER REINFORCEMENT GL 8 TYP. SCALE: 1:10



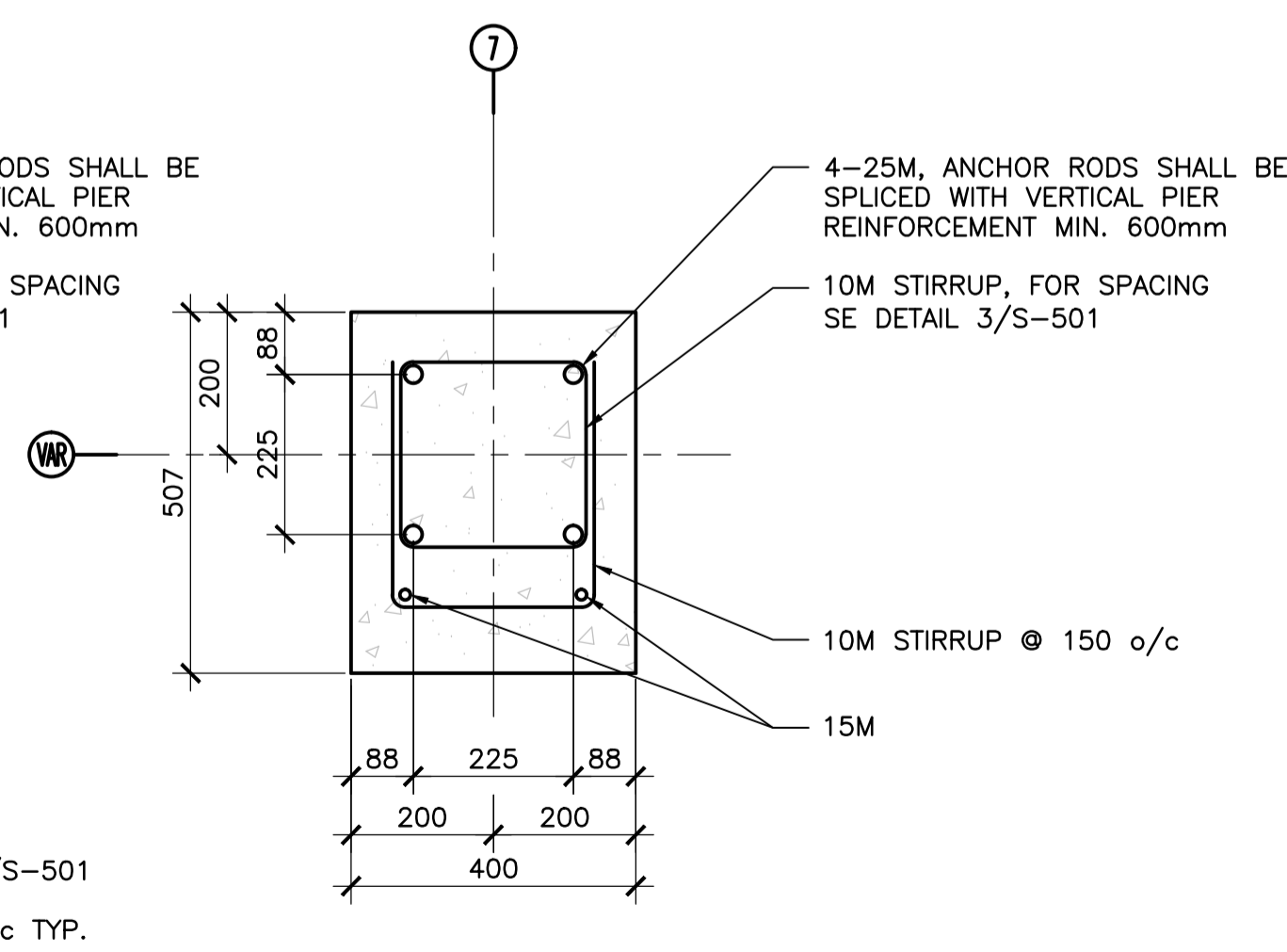
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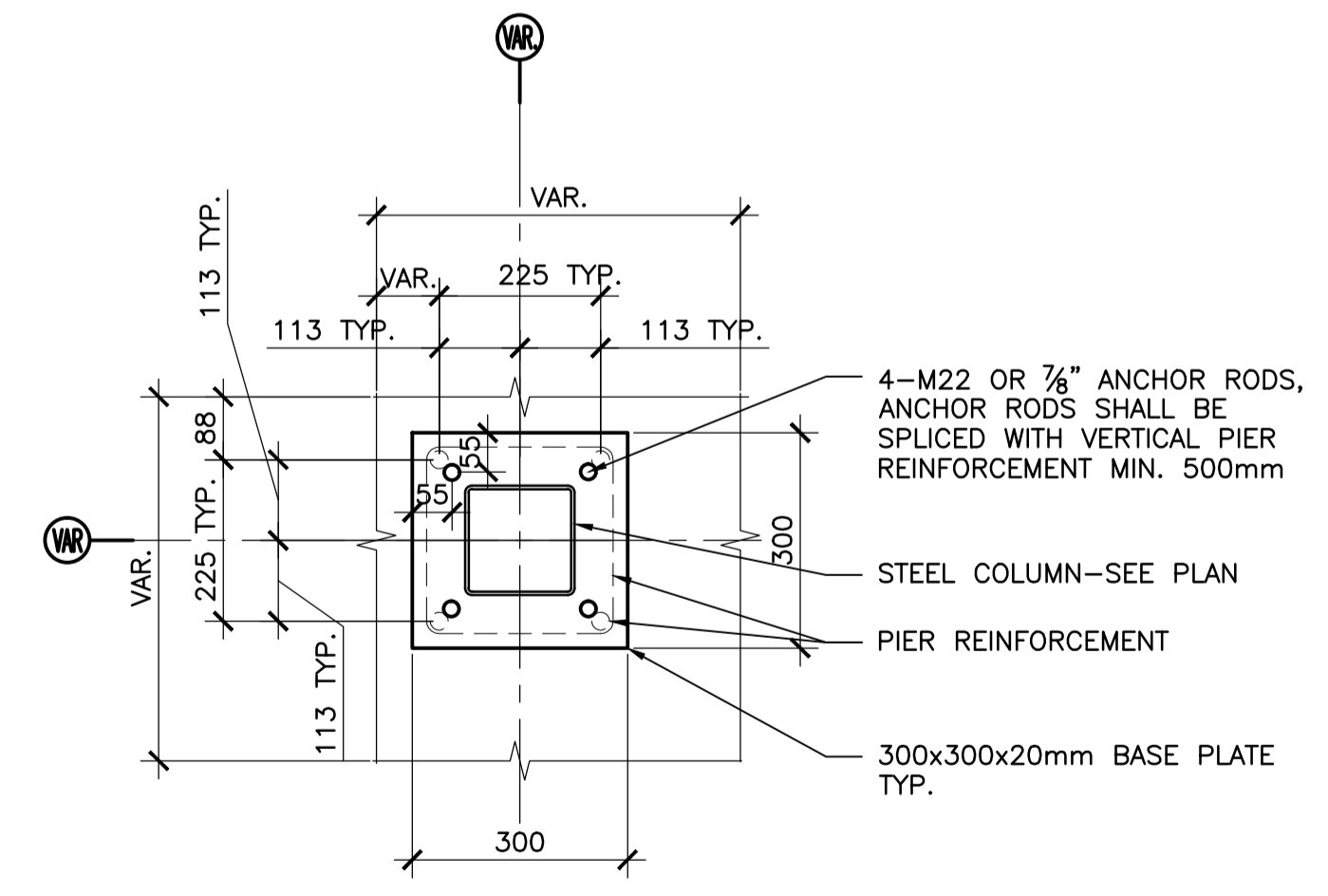
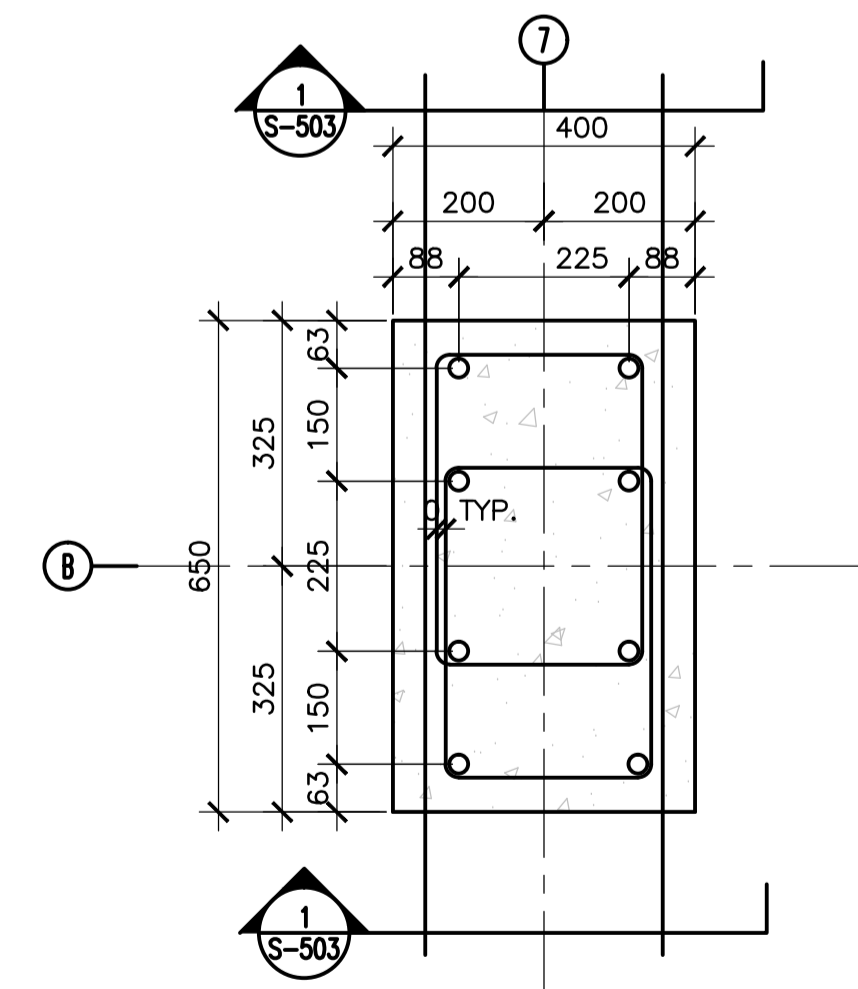
5 FUEL TANK STEEL CANOPY-PIER REINFORCEMENT GL A1/8 & GL C1/8 TYP. SCALE: 1:10



6 FUEL TANK STEEL CANOPY-PIER REINFORCEMENT GL A1/7 & GL C1/7 TYP. SCALE: 1:10

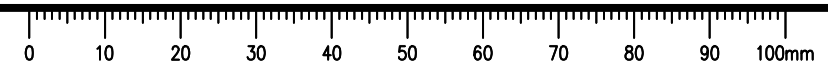


7 FUEL TANK STEEL CANOPY-PIER REINFORCEMENT GL B/7 TYP. SCALE: 1:10



NOTE: FOR PIER SIZE SE PLAN AND DETAILS ON S-502

8 BASE PLATE DETAIL TYP. SCALE: 1:10

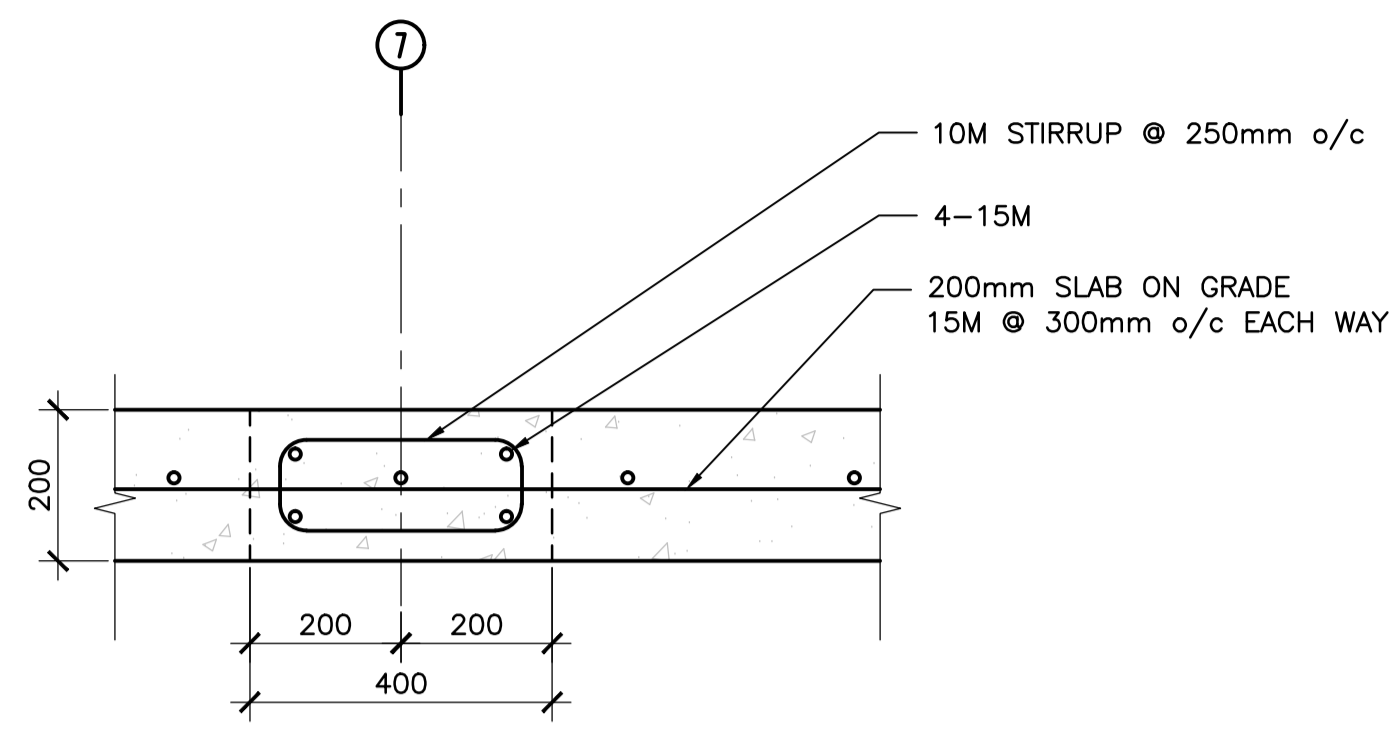




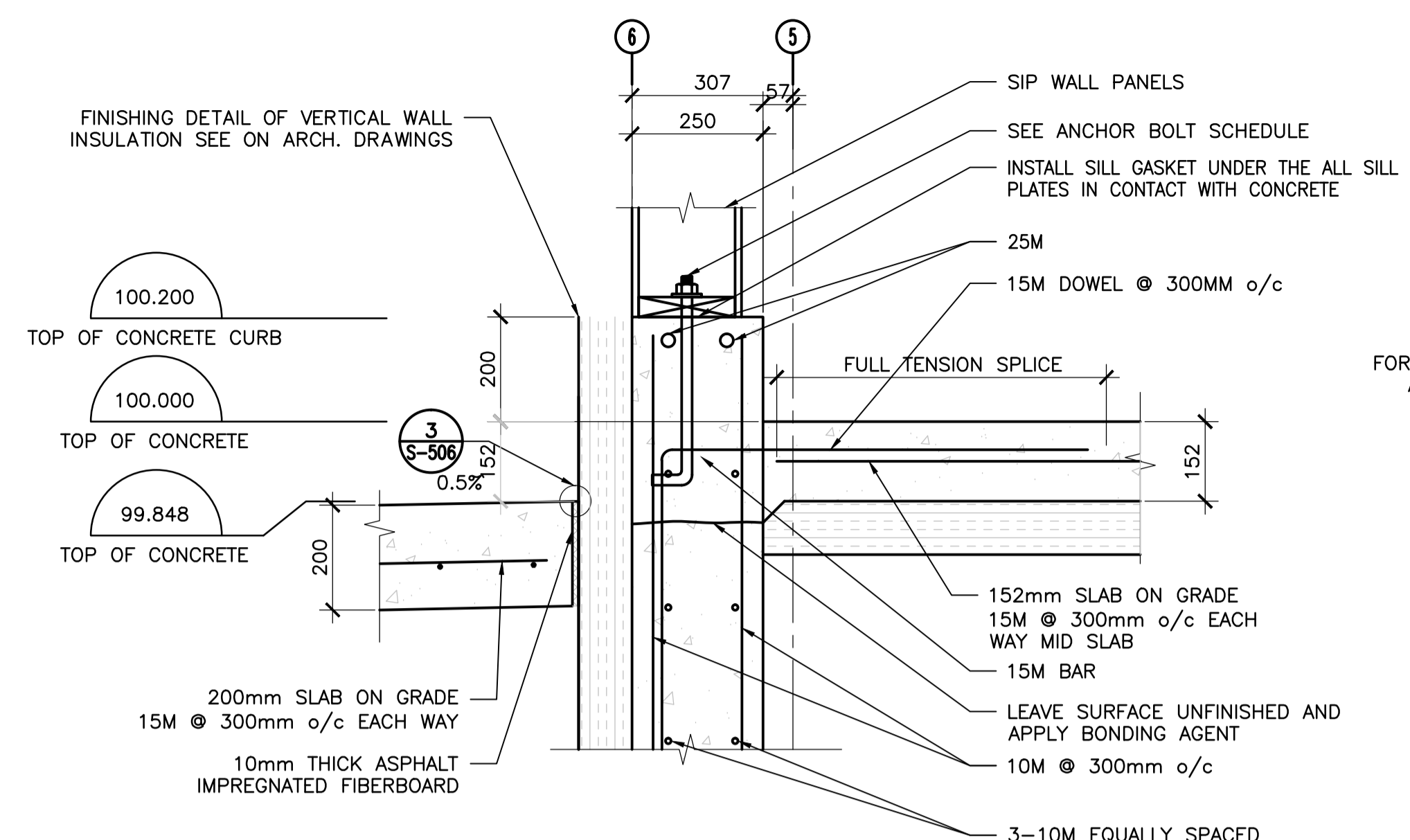
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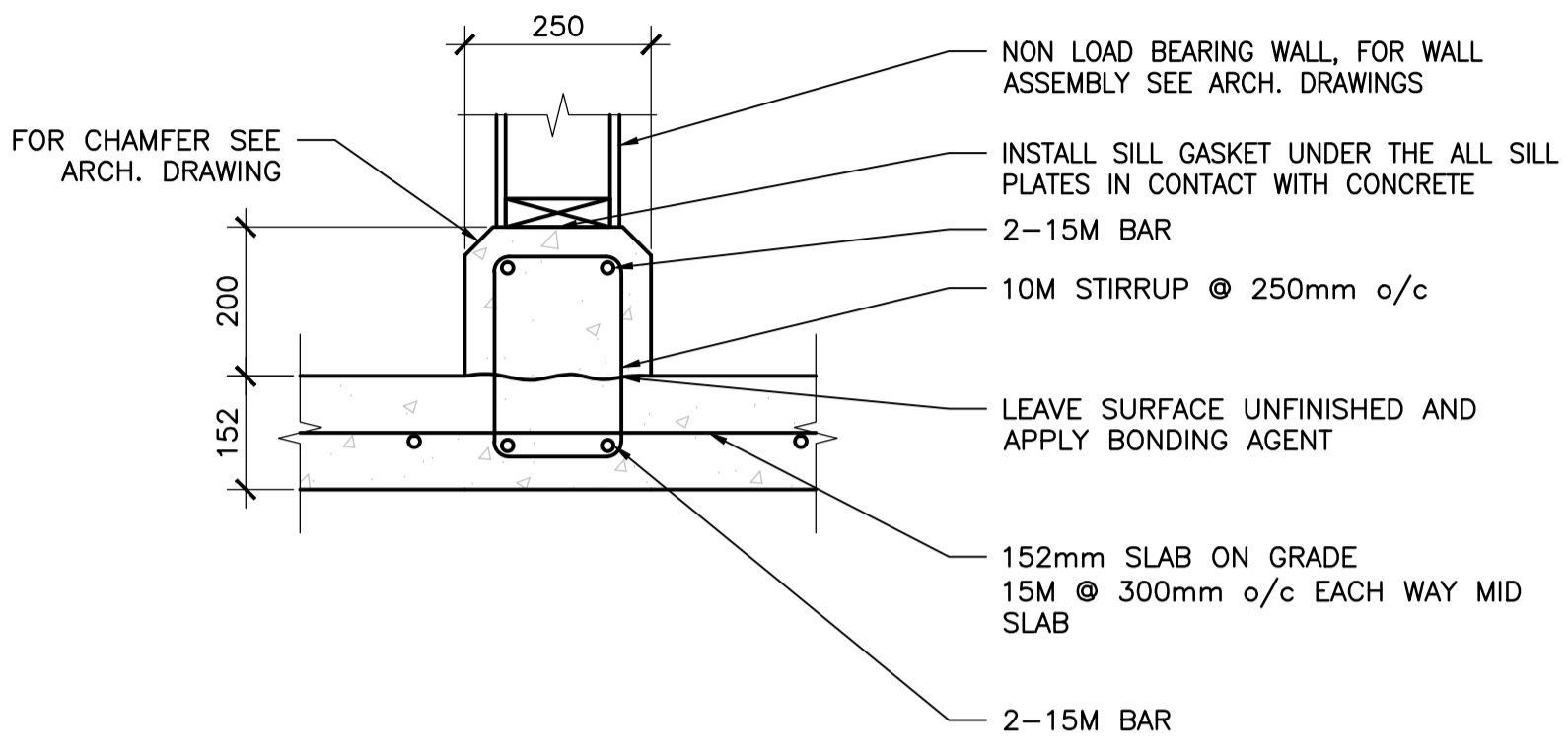
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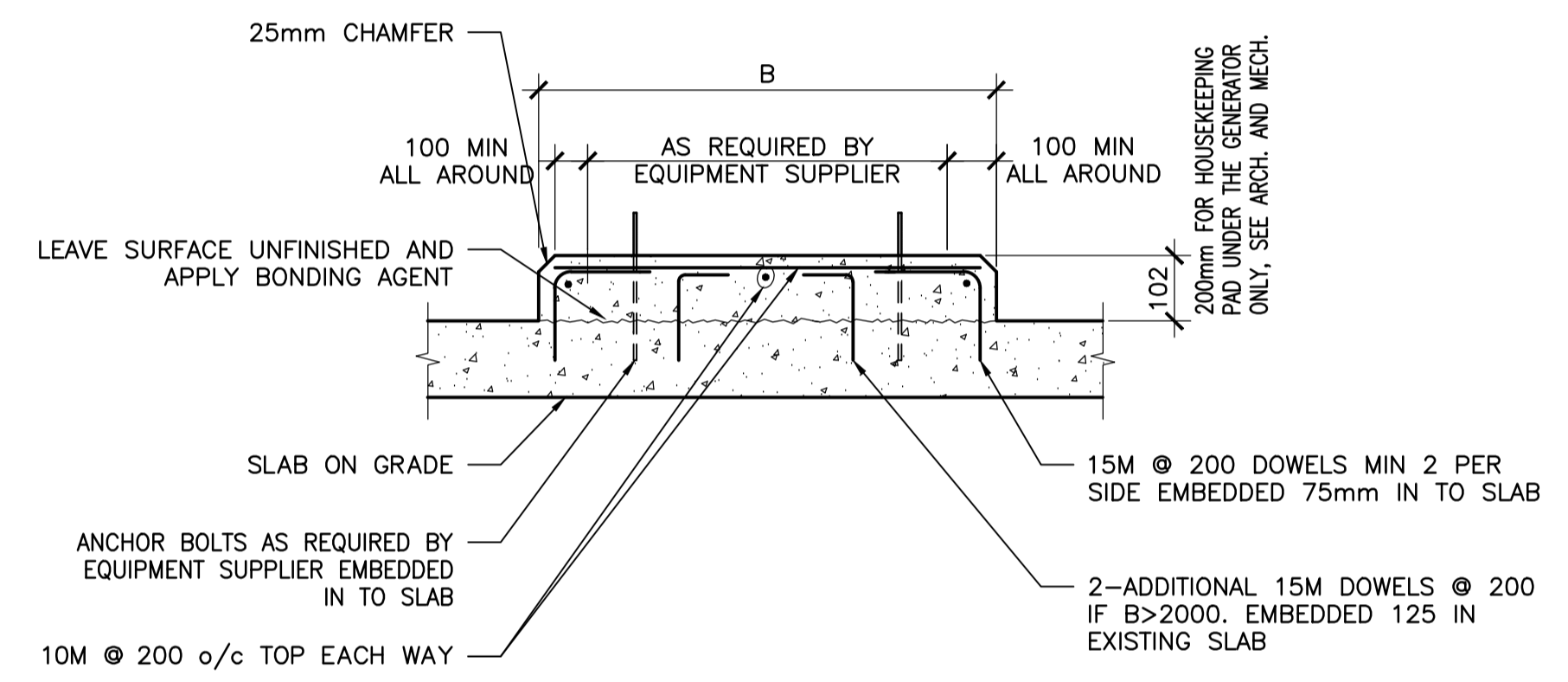
1 FUEL TANK STEEL CANOPY-SLAB ON GRADE SECTION
SCALE: 1:10



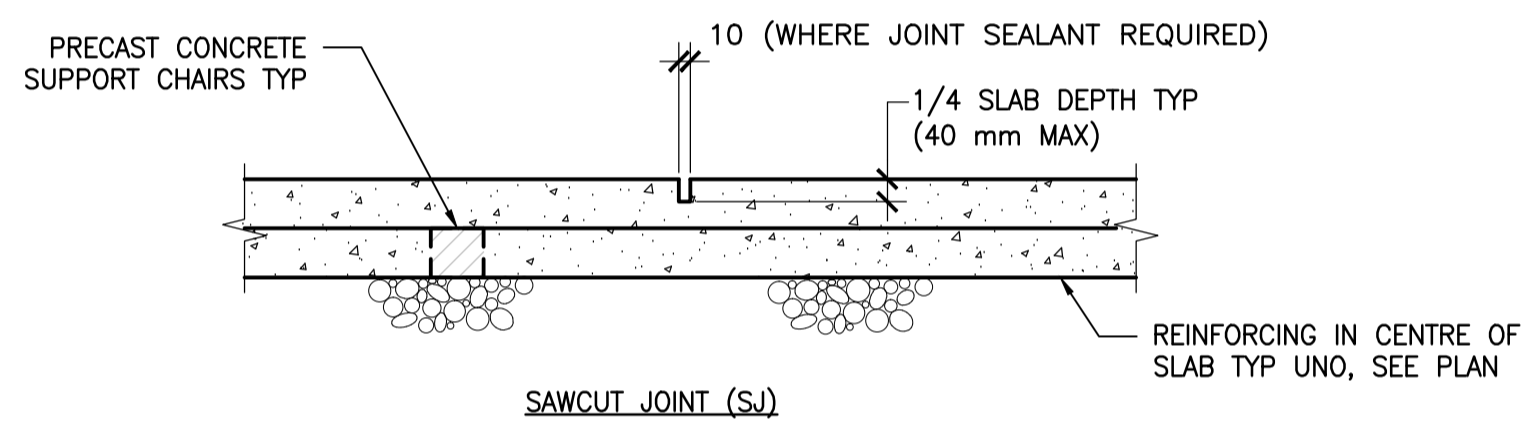
2 TYPICAL SLAB SECTION @ GL 6
SCALE: 1:10



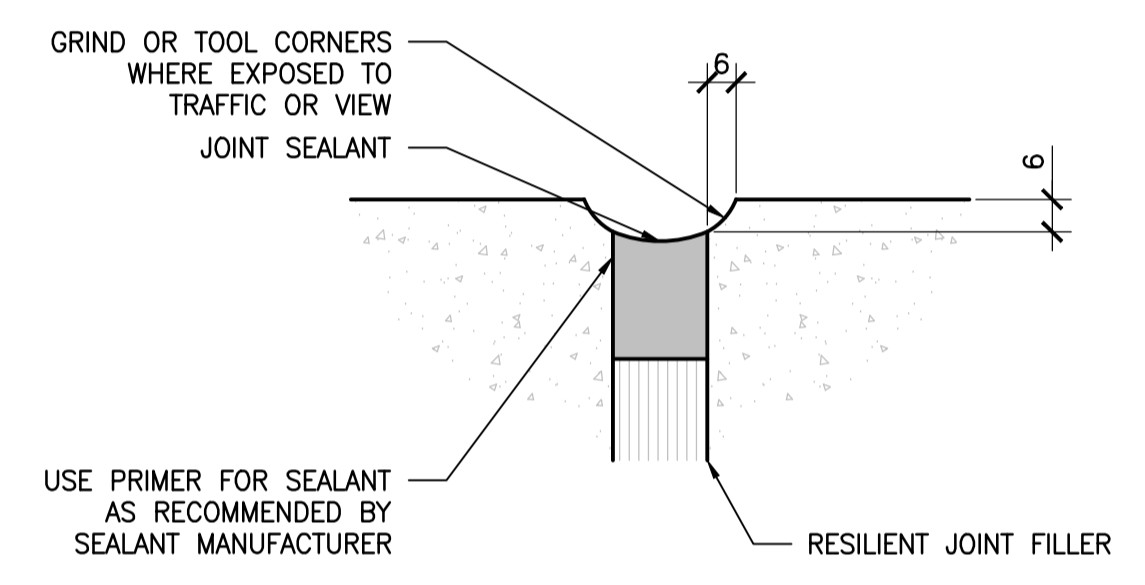
3 CURB DETAIL
SCALE: 1:10



4 HOUSE KEEPING PAD DETAIL TYP.
SCALE: 1:10



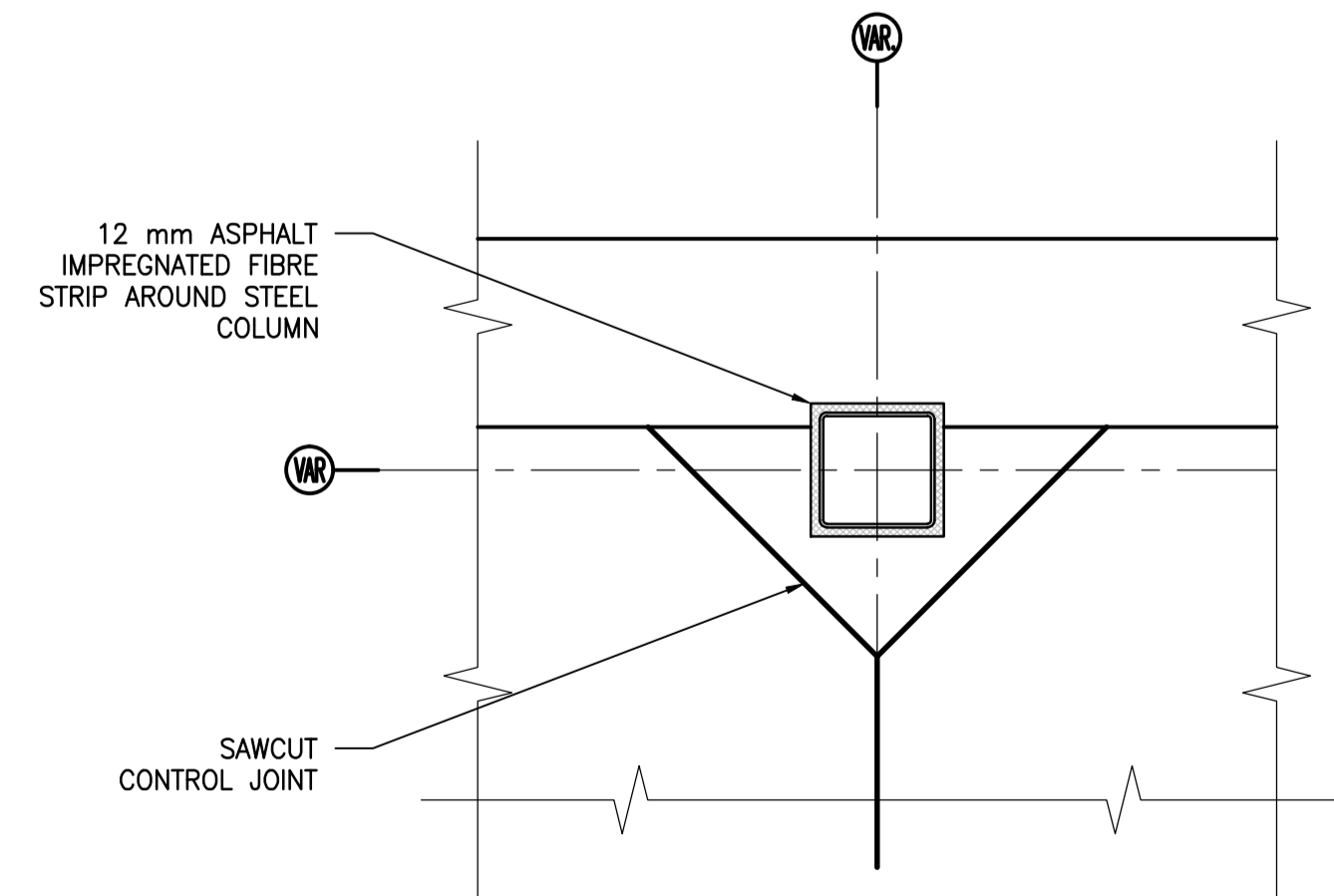
5 TYPICAL SLAB ON GRADE CONTROL JOINTS
SCALE: 1:10



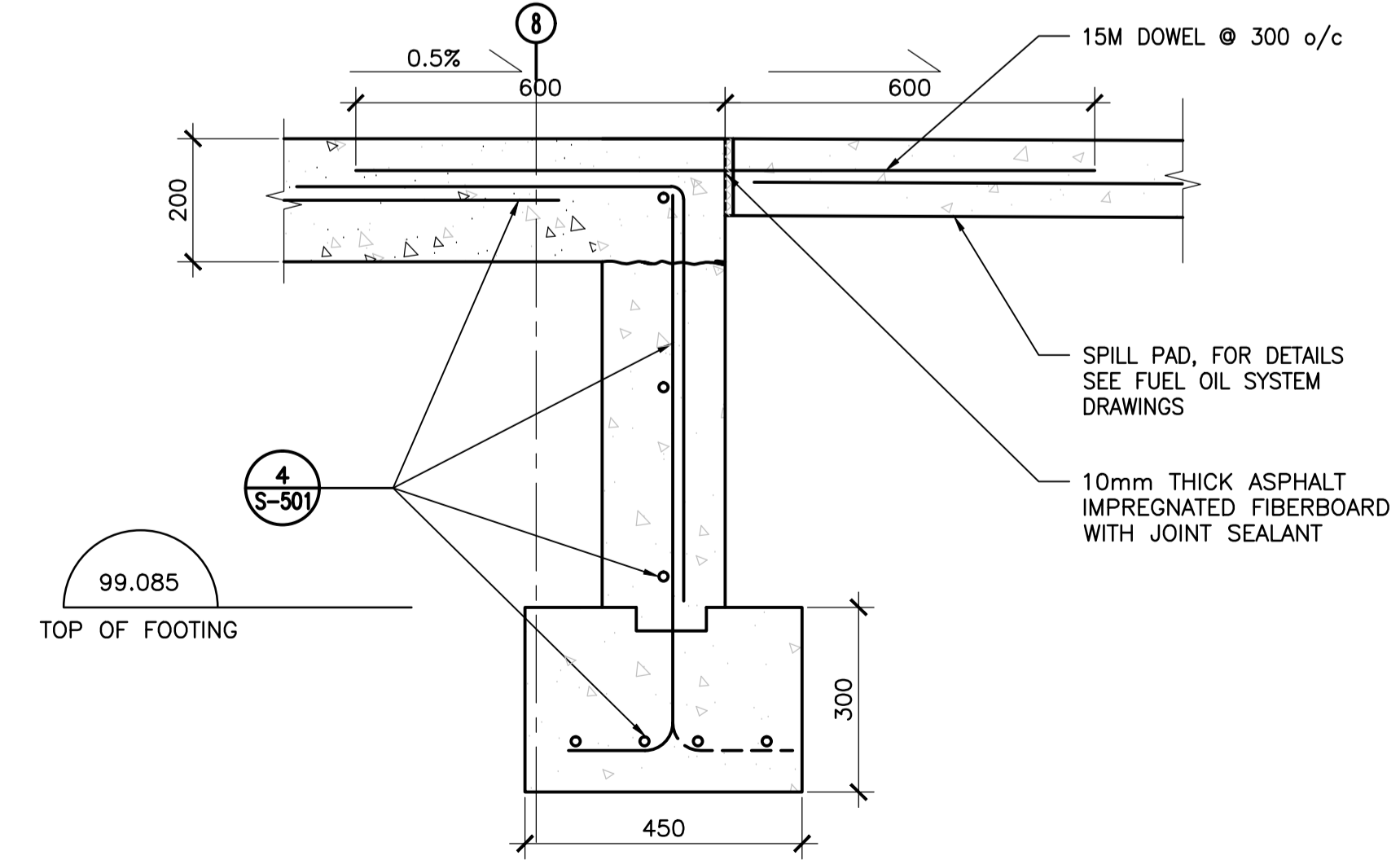
6 TYPICAL DETAIL FOR CONTROL JOINTS
SCALE: 1:10

- NOTES:
- PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE PLANS OR AS DETERMINED BY THE EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER.
 - THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER, AND SHALL BE AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING PLACED.
 - EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE.
 - USE HYBRID ADHESIVE SYSTEM FOR ALL REBAR AND ANCHOR BOLTS FASTENING TO EXISTING CONCRETE SLAB

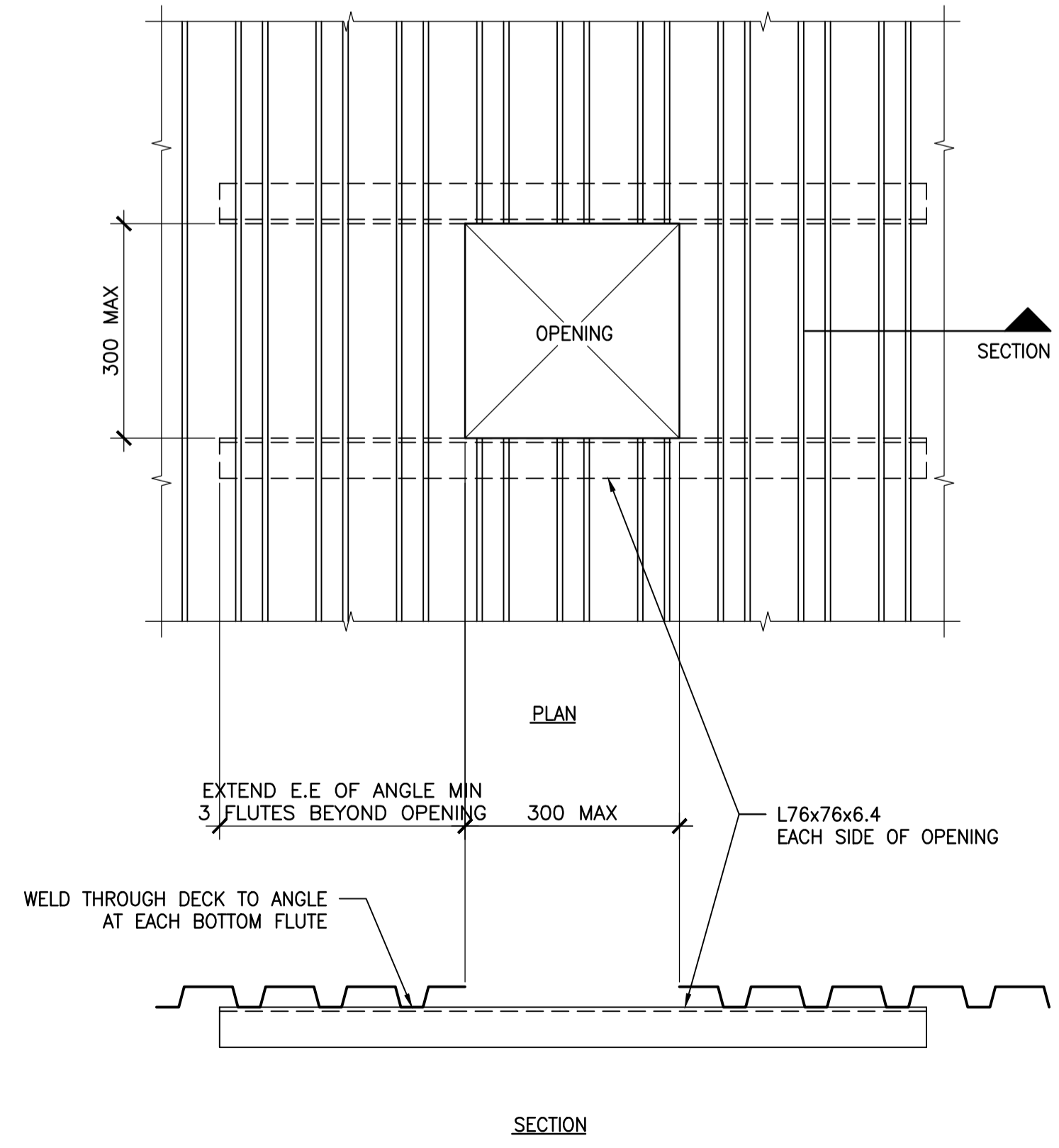
- NOTE:
- PROVIDE SAWCUT JOINT AS SHOWN & AT LOCATIONS SHOWN ON DRAWINGS CUT SAWCUT JOINTS A MAXIMUM OF 24 HRS AFTER PLACING SLAB.
 - CONSTRUCTION JOINT AND SAWCUT JOINTS PATTERNS MUST BE COORDINATED WITH CERAMIC, QUARRY TILE (OR SIMILAR FINISH) PATTERN JOINTS.
 - GRIND LEVEL ALL UNEVEN SURFACES AT THE EDGE OF CONSTRUCTION JOINTS AND SAWCUT JOINTS TO WITHIN SPECIFIED TOLERANCES.
 - JOINT SEALANT REQUIRED FOR ALL EXPOSED FLOORS, AND FOR FLOORS WITH CERAMIC TILE, QUARRY TILE, VINYL ASBESTOS TILE AND OTHER SIMILAR FINISHES WITH JOINT PATTERNS THROUGH THE FINISH. JOINT SEALANT NOT REQUIRED WITH CARPET FINISH.
 - SUBGRADE PER SPECIFICATIONS.



7 HOUSE KEEPING PAD DETAIL TYP.
SCALE: 1:10



8 FUEL TANK SLAB / SPILL PAD CONNECTION DETAIL
SCALE: 1:10



9 TYPICAL OPENING THROUGH METAL DECK
SCALE: NTS



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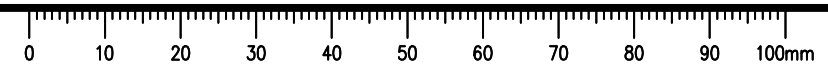
Project title/Titre du projet
PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

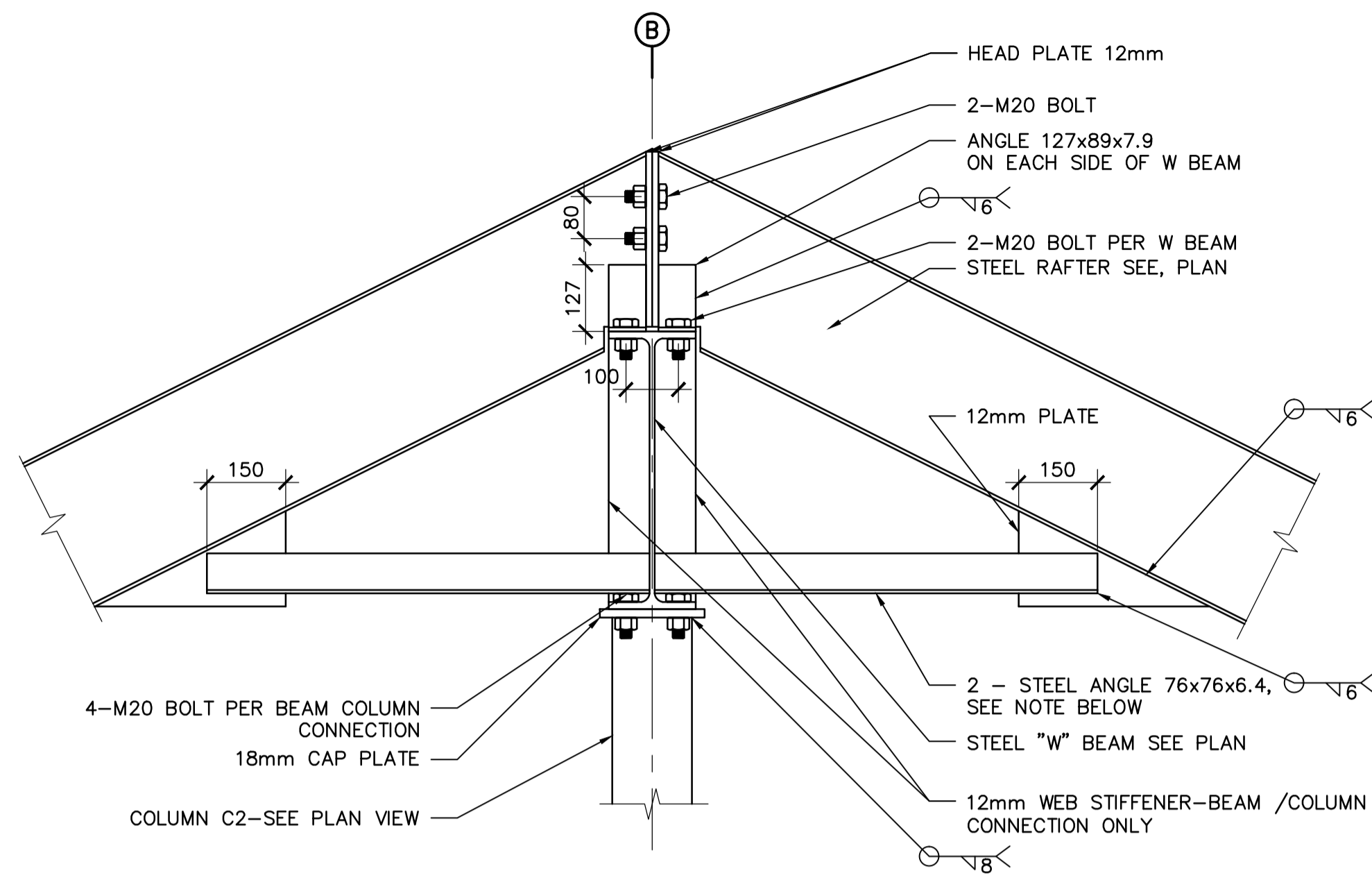
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Designed by/Concept par **MJW**
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Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin
DETAILS

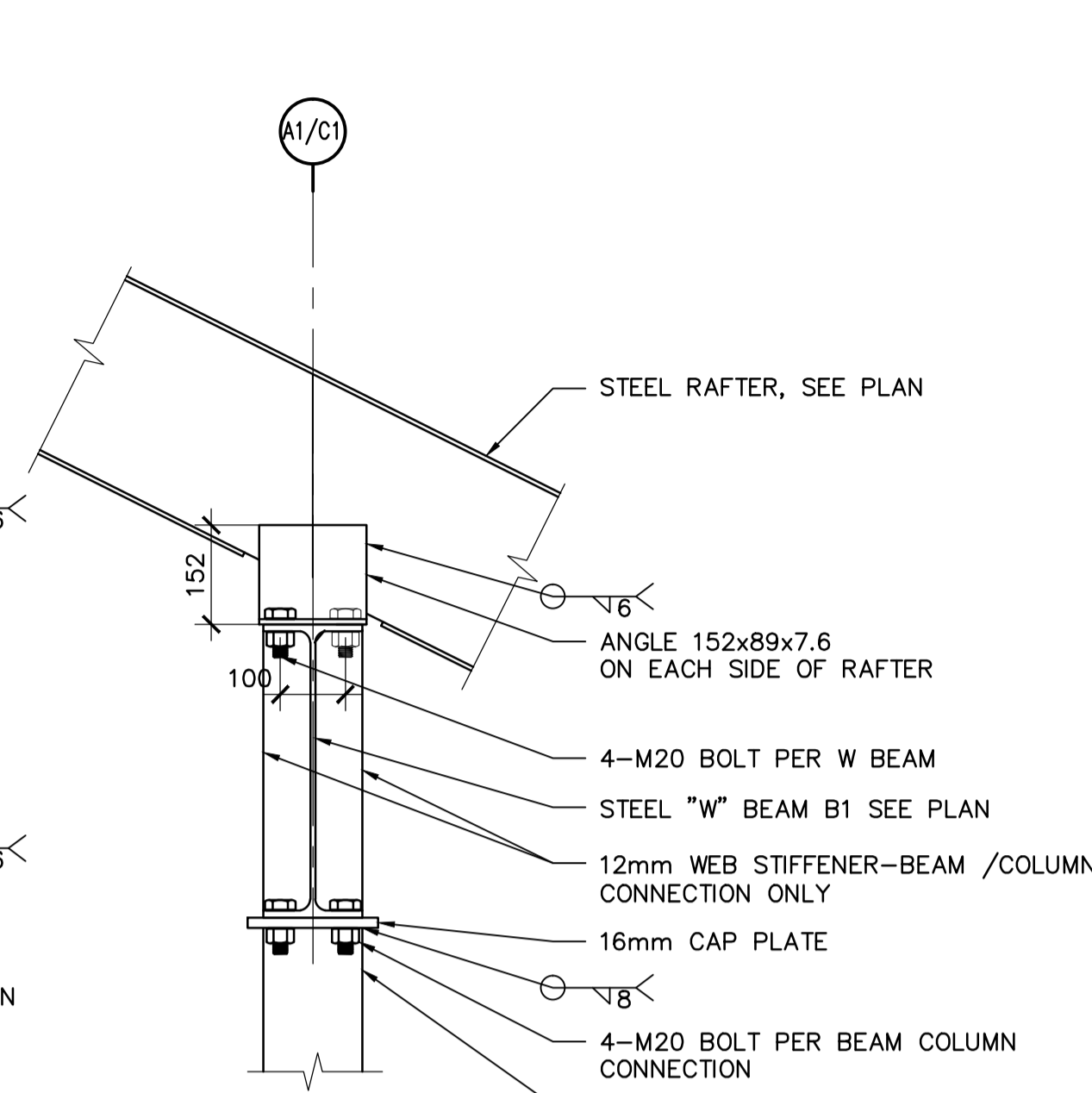
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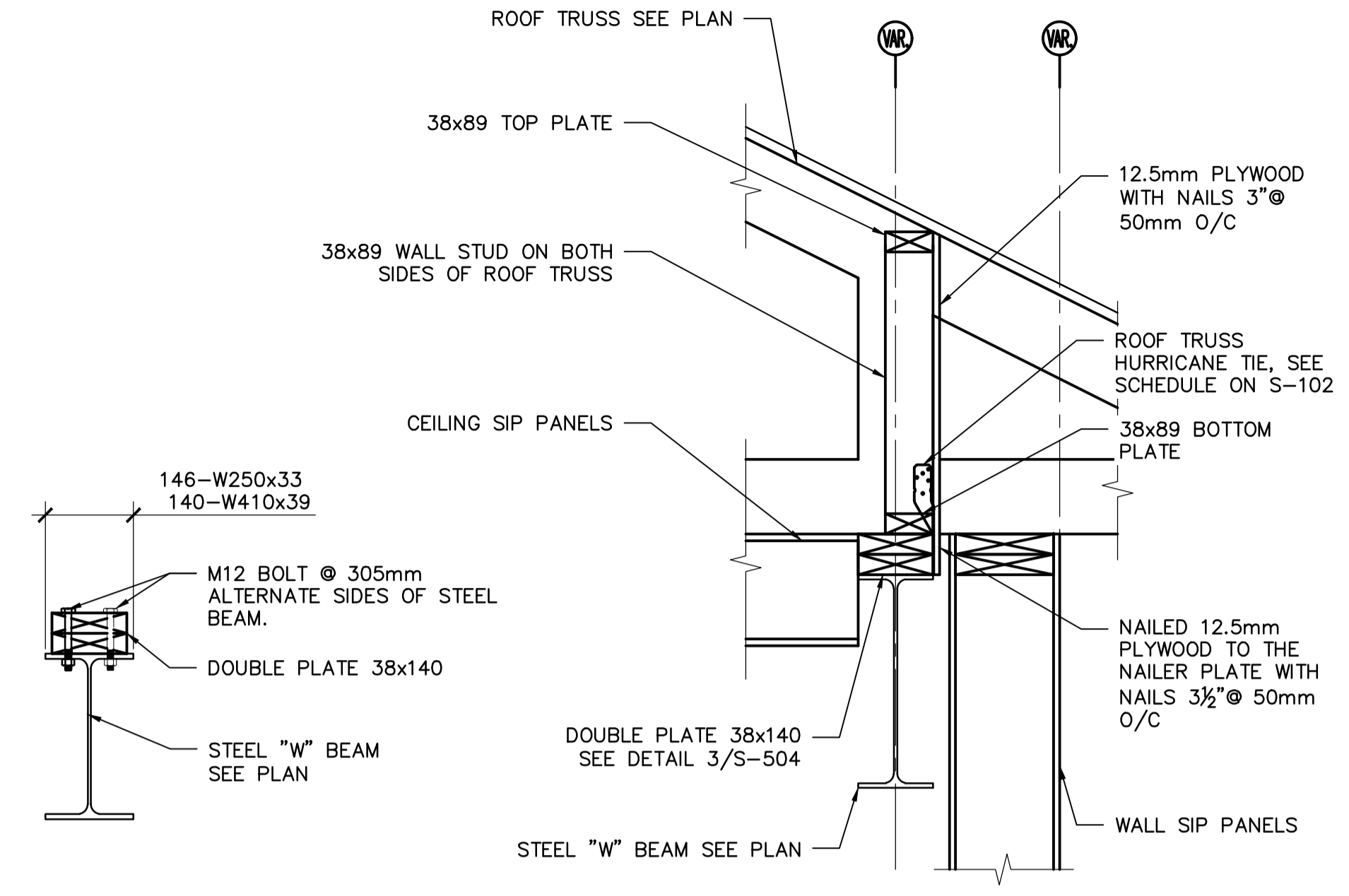
NOTE:

1. TOP OF STEEL CANOPY ROOF SHEATHING (38x1.52 STEEL ROOF DECK) SHALL MATCH TOP OF BUILDING ROOF SHEATHING (19mm PLYWOOD).
2. INSTALL HORIZONTAL STEEL ANGLE 76x76x6.4 FOR RIDGE BEAM ONLY BETWEEN GL7&8

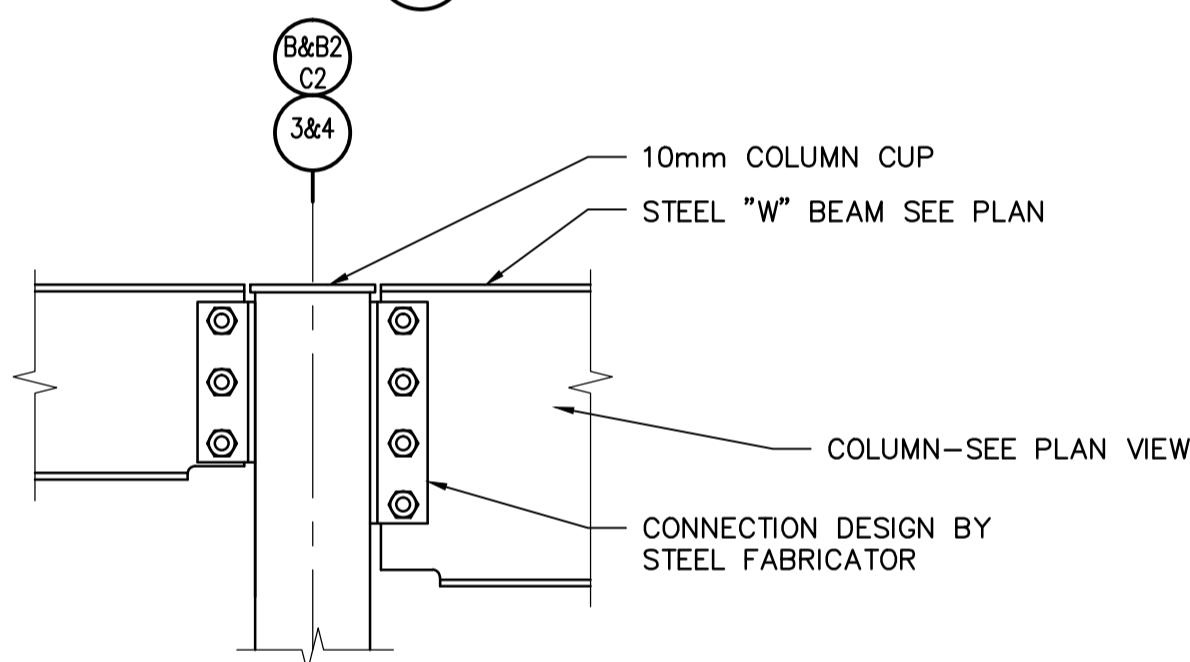


NOTE:

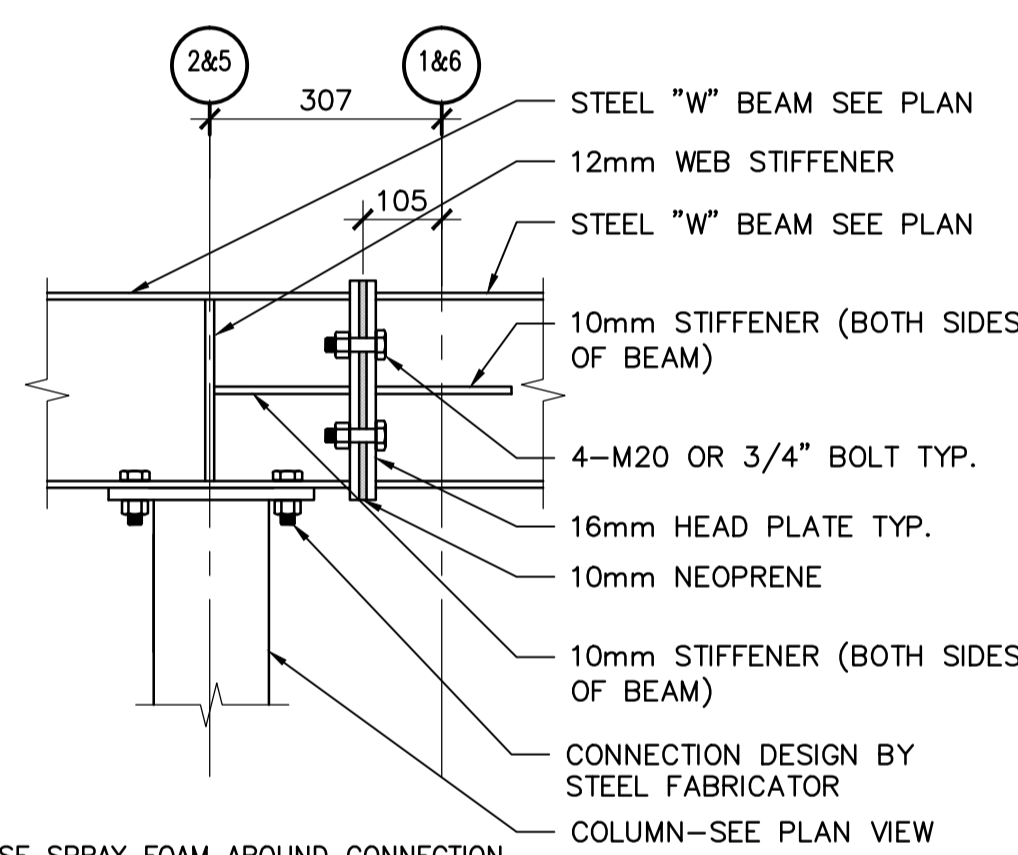
1. TOP OF STEEL CANOPY ROOF SHEATHING (38x1.52 STEEL ROOF DECK) SHALL MATCH TOP OF BUILDING ROOF SHEATHING (19mm PLYWOOD).
2. SEE ALSO DETAIL 12/S-504



1 STEEL CANOPY CONNECTION DETAIL1
S-504 SCALE: 1:10



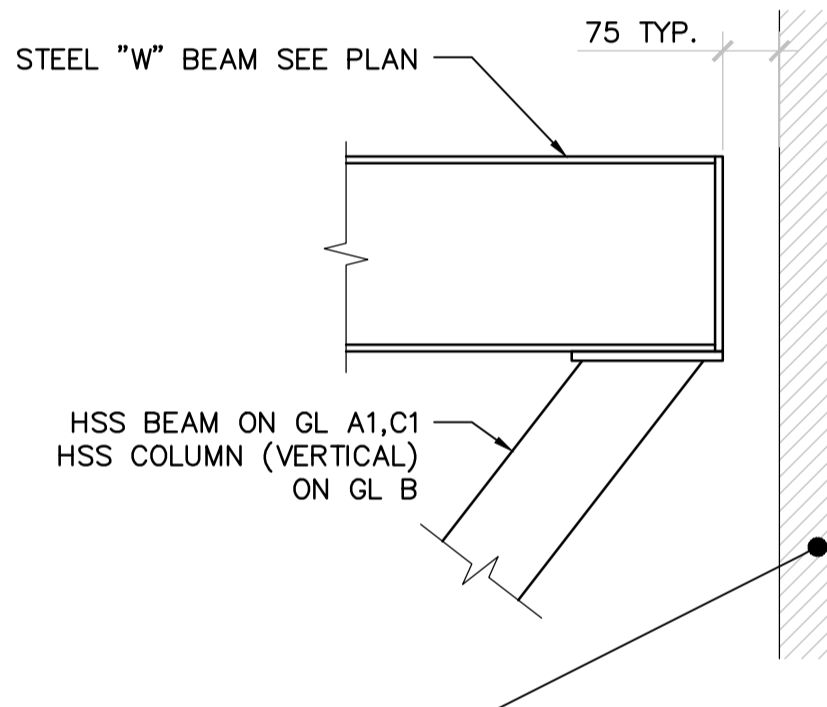
2 STEEL CANOPY CONNECTION DETAIL2
S-504 SCALE: 1:10



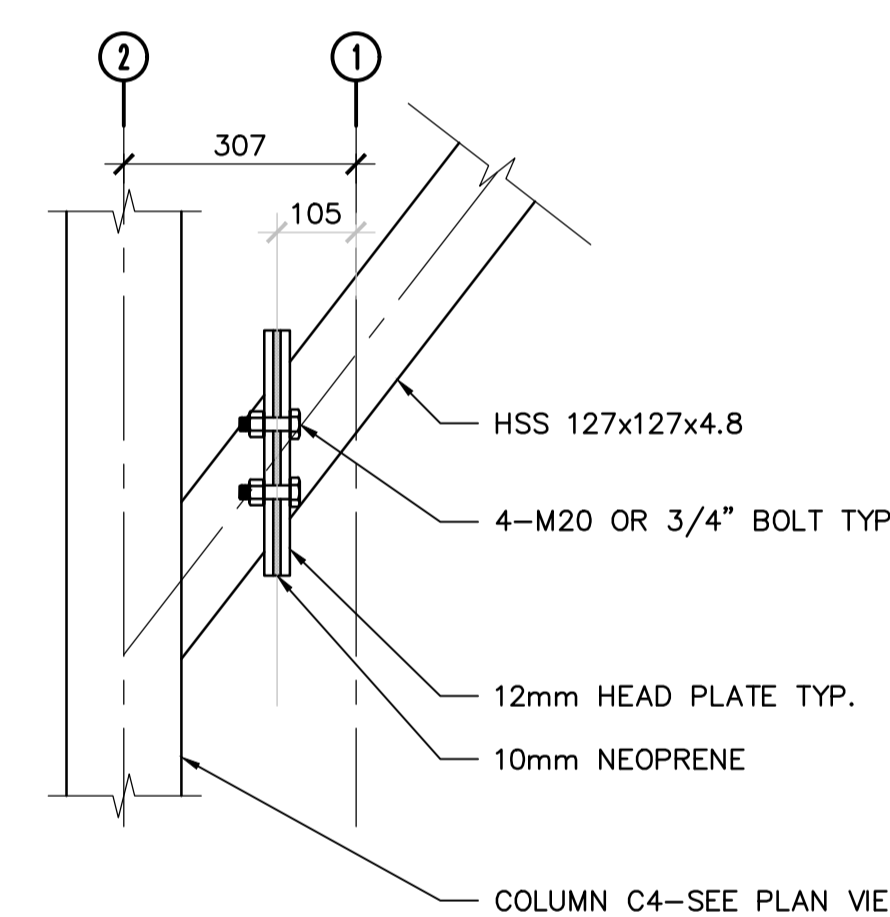
NOTE:

1. USE SPRAY FOAM AROUND CONNECTION REFER TO ARCH. SPECIFICATION
2. BRACING IS NOT SHOWN FOR CLARITY, SEE S-601

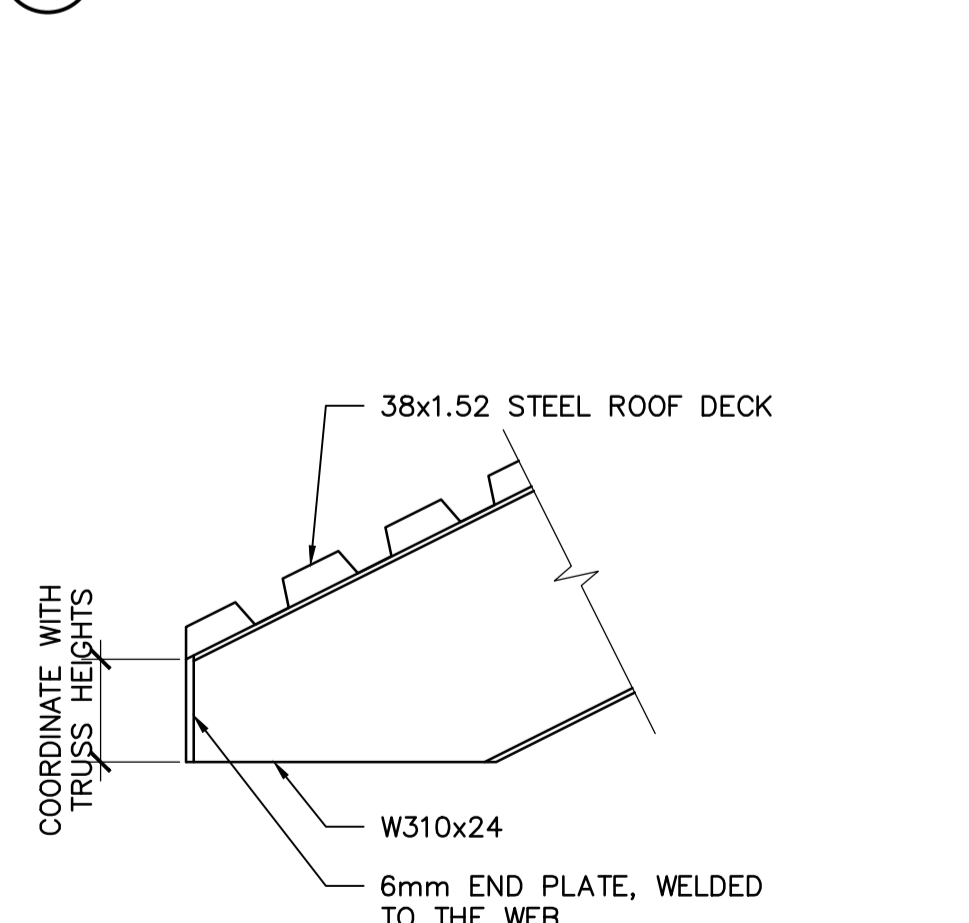
3 NAILER PLATE DETAIL TYP.
S-504 SCALE: NTS



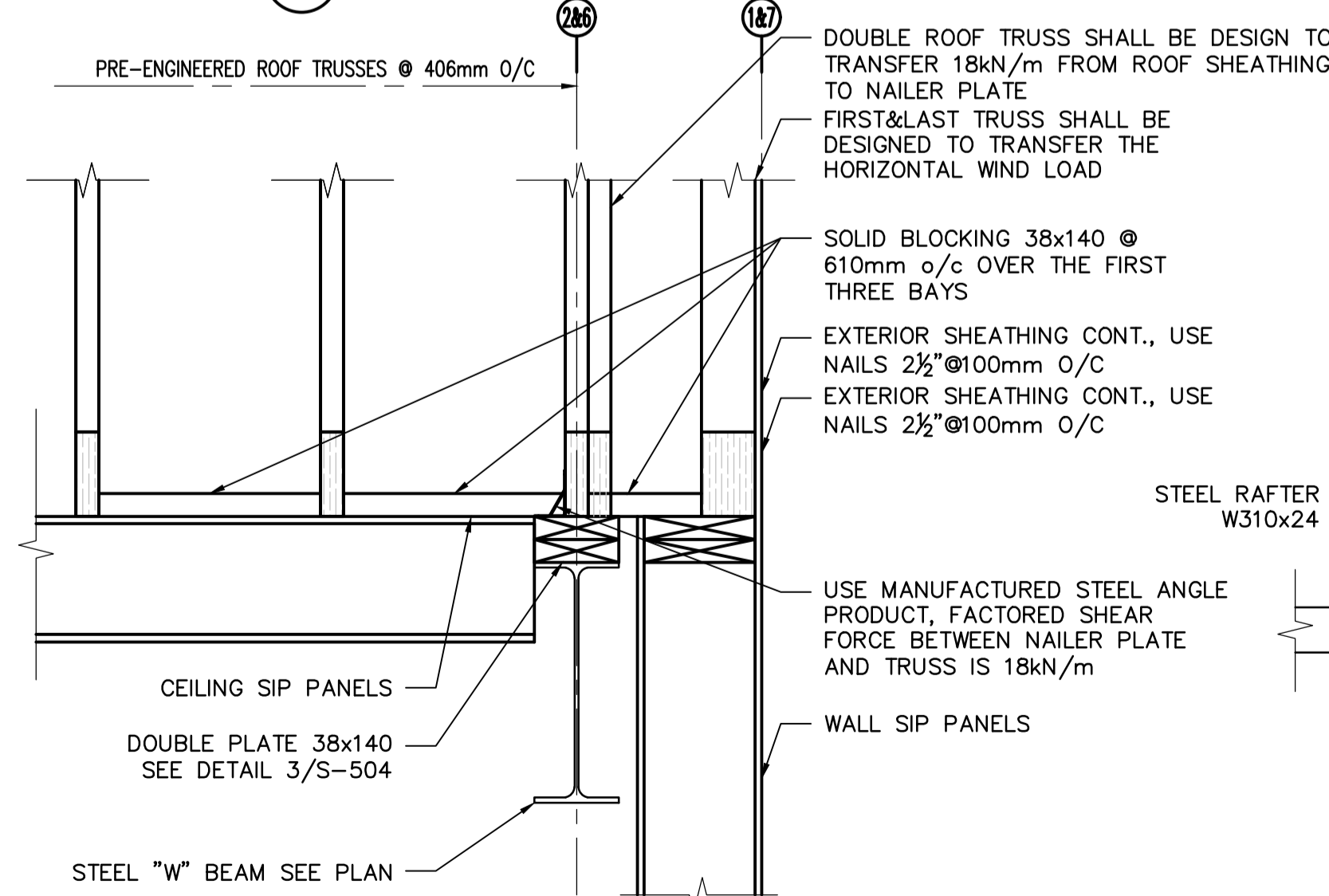
4 ROOF TRUSS CONNECTION DETAIL TYP.
S-504 SCALE: NTS



5 STEEL COLUMN/BEAM CONNECTION DETAIL
S-504 SCALE: 1:10

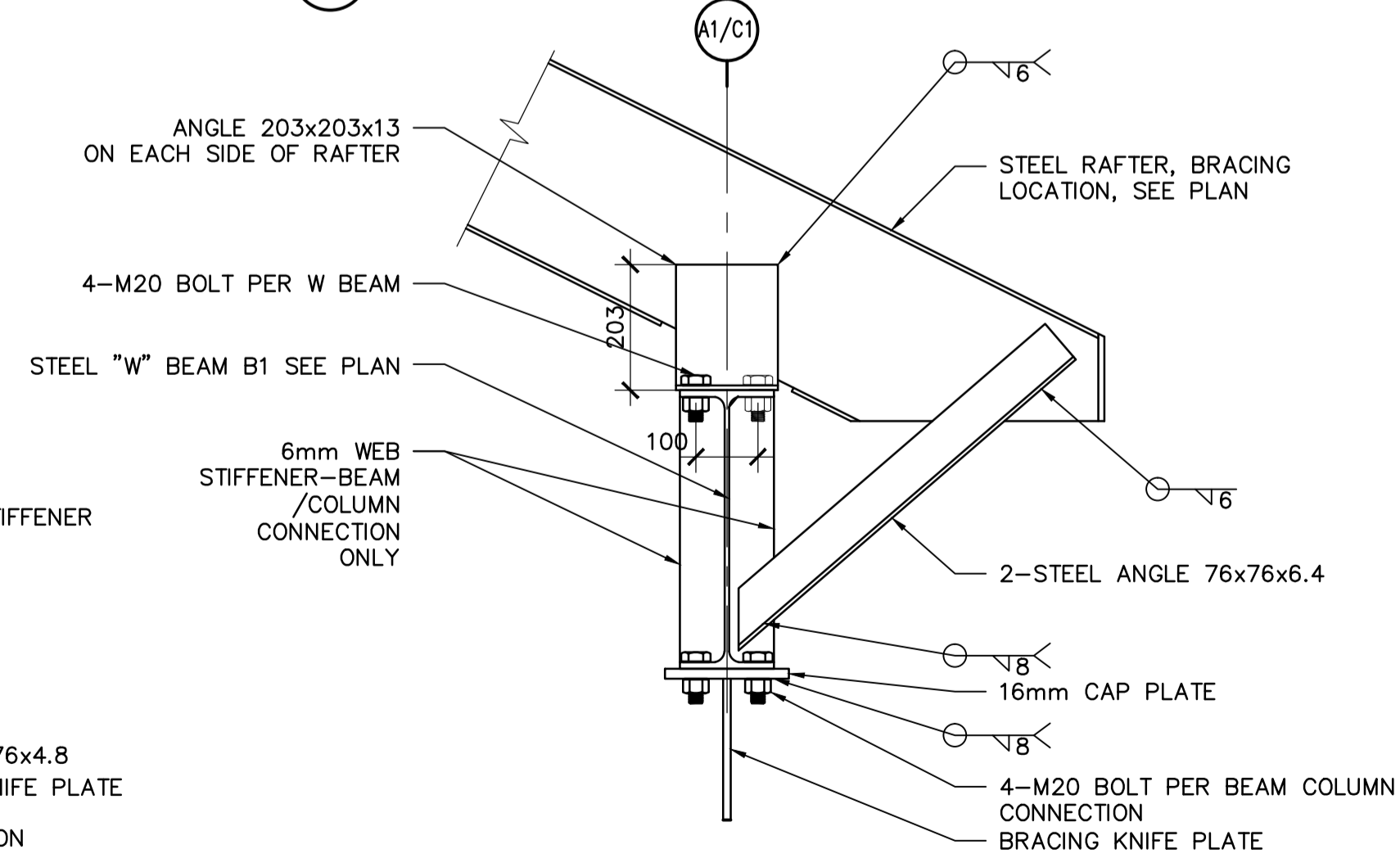


6 STEEL COLUMN/BEAM CONNECTION DETAIL
S-504 SCALE: 1:10



7 STEEL STRUCTURE DETAIL BY THE EXISTING BUILDING
S-504 SCALE: 1:10

8 STEEL COLUMN/BEAM CONNECTION DETAIL @ GL 1/A1 AND 1/C1
S-504 SCALE: 1:10



NOTE:

1. TOP OF STEEL CANOPY ROOF SHEATHING (38x1.52 STEEL ROOF DECK) SHALL MATCH TOP OF BUILDING ROOF SHEATHING (19mm PLYWOOD).
2. SEE ALSO DETAIL 2/S-504

9 STEEL RAFTER END DETAIL TYP.
S-504 SCALE: NTS

10 ROOF TRUSS CONNECTION DETAIL @ GL 1,7 TYP.
S-504 SCALE: NTS

11 FUEL CANOPY ROOF BRACING DETAIL
S-504 SCALE: NTS

12 STEEL CANOPY CHEVRON BRACE LOCATION DETAIL
S-504 SCALE: 1:10



Revision/Revisions	Description/Description	Date/Date
0	ISSUED FOR TENDER	15/02/02

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

Consultant Signature Only

Designed by/Concept par
MJW
Drawn by/Dessiné par
PP
PWGSC Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin

DETAILS

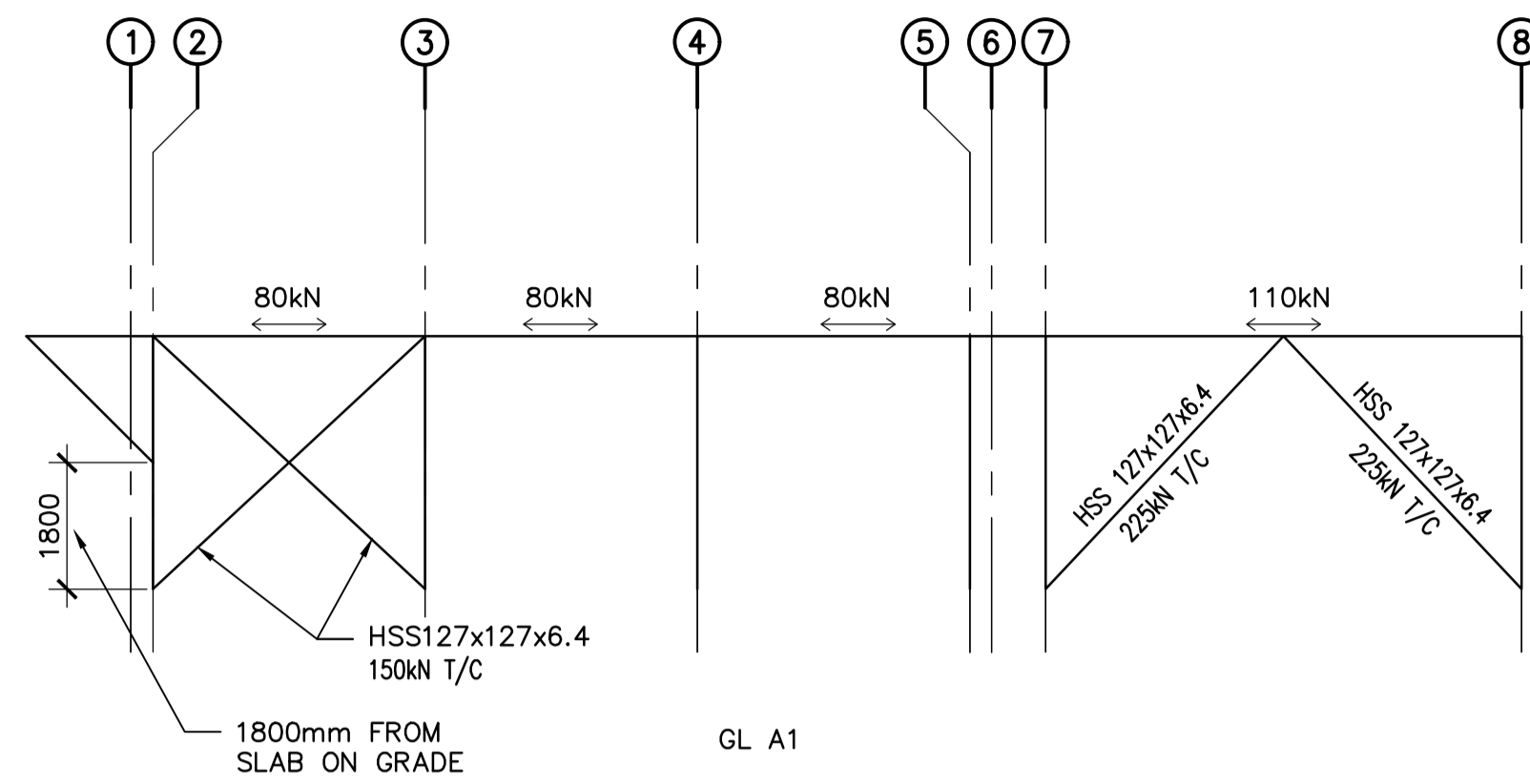
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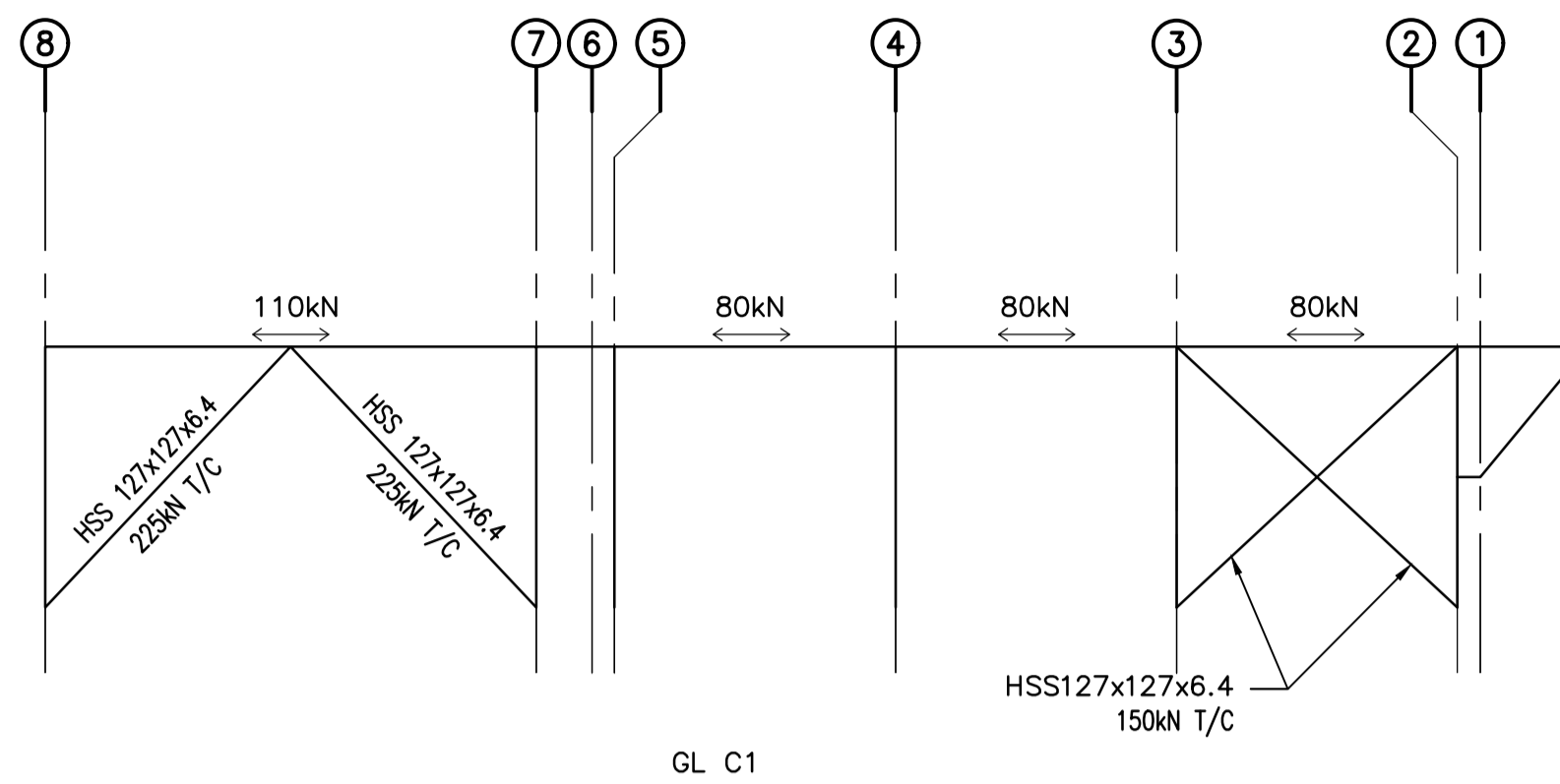
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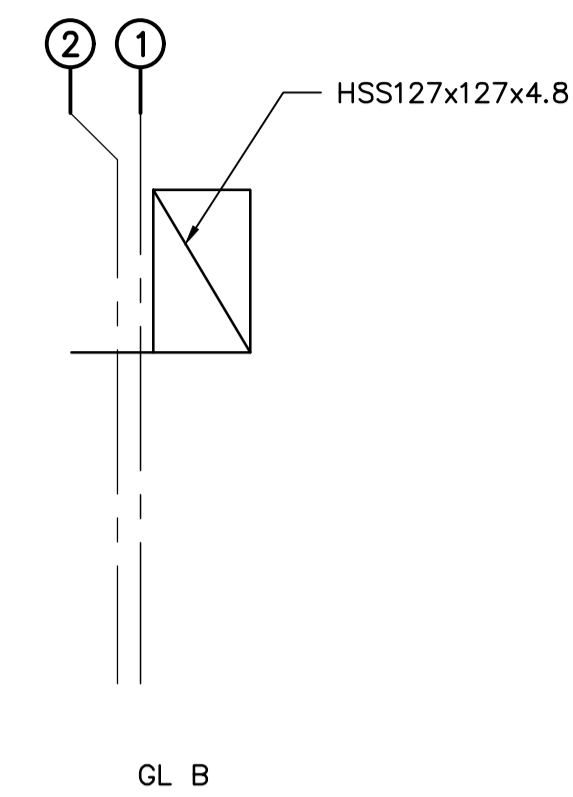
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GL A1

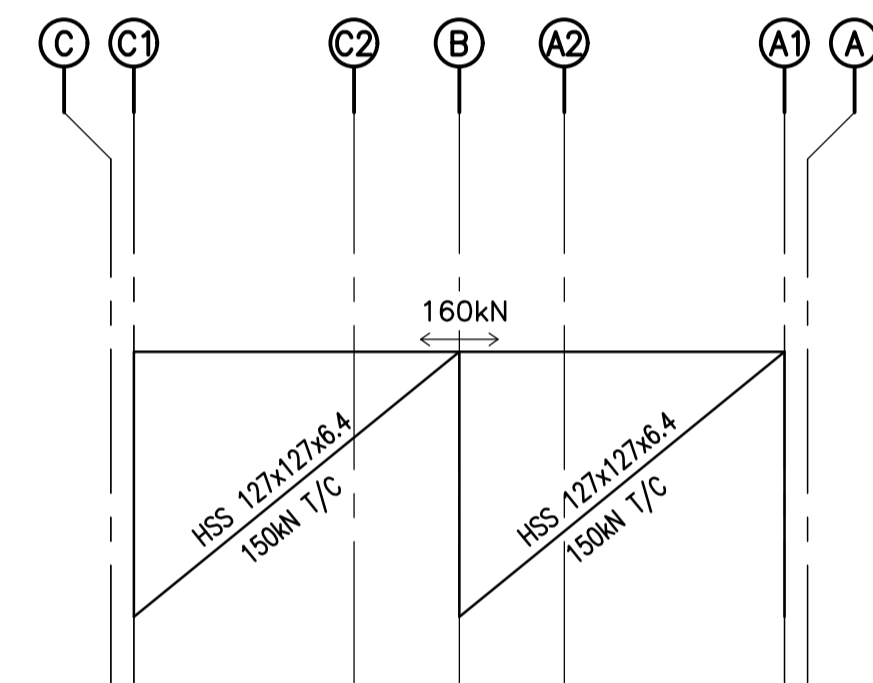


GL C1

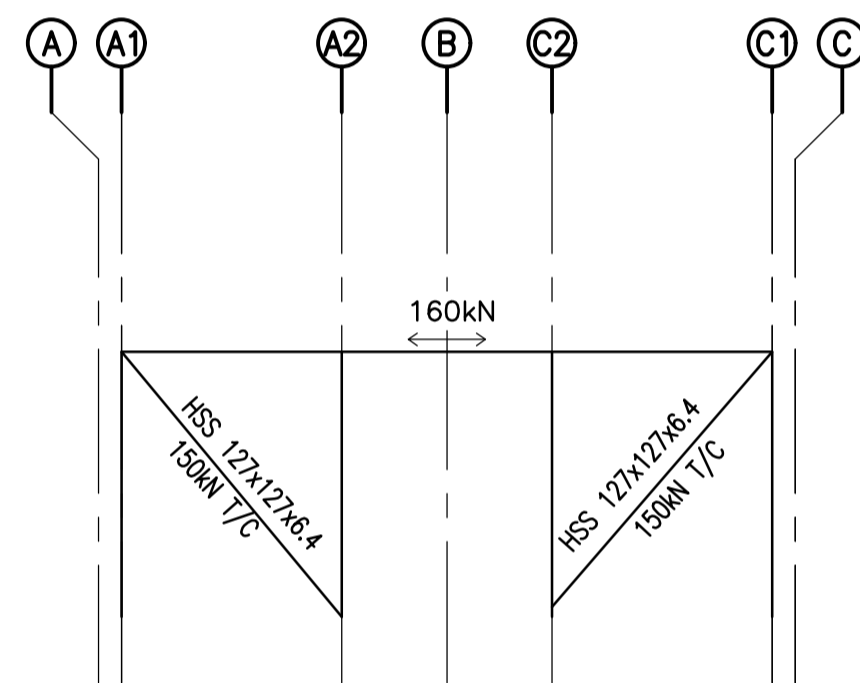


GL B

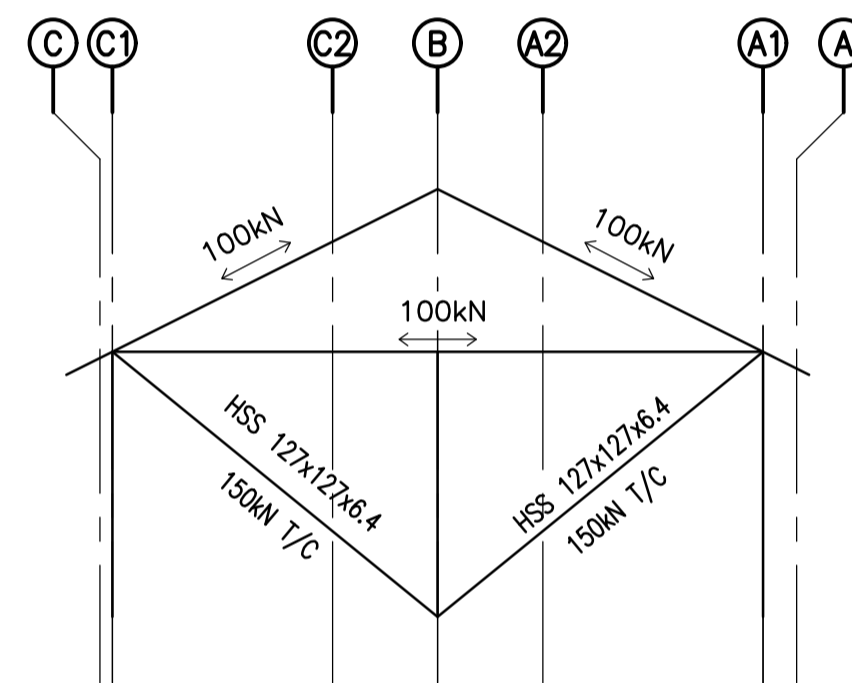
NOTE:
BRACING CONNECTIONS SHALL BE WELDED WITH MIN. 6mm FILLET WELD AND DESIGNED BY STEEL FABRICATOR



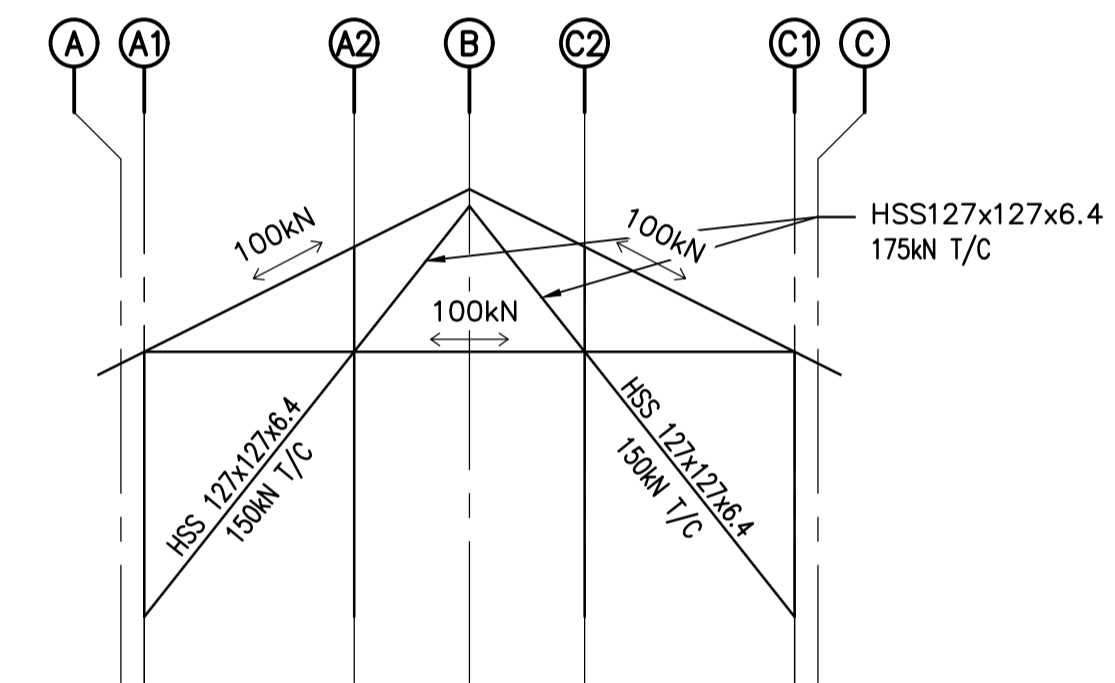
GL 2



GL 5



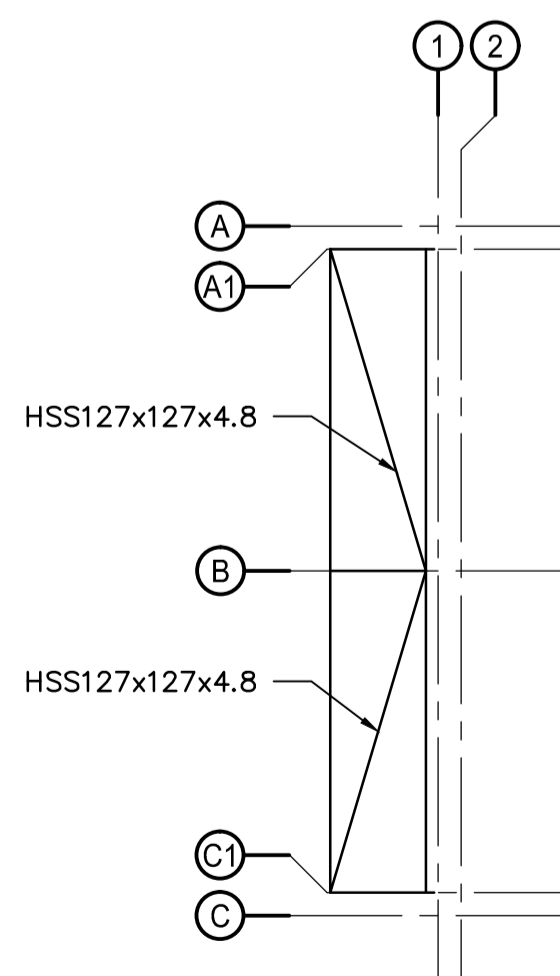
GL 6



GL 7

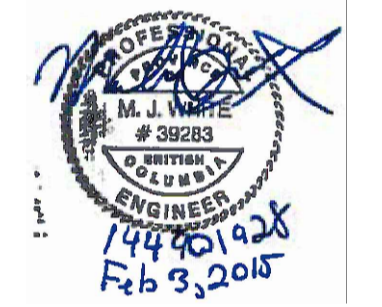
NOTE:
1. ALL CONNECTIONS SHALL BE DESIGNED BY STEEL FABRICATOR
2. ALL BRACING CONNECTIONS SHALL BE WITH SLIP-CRITICAL BOLTED UNLESS NOTED OTHERWISE-SEE GL-B
3. ALL FORCES SHOWN ARE TOTAL FACTORED LOADS

1 VERTICAL BRACING DIAGRAMS
S-601 SCALE: NTS



NOTE:
BRACING CONNECTIONS SHALL BE WELDED WITH MIN. 6mm FILLET WELD AND DESIGNED BY STEEL FABRICATOR

2 HORIZONTAL BRACING DIAGRAMS
S-601 SCALE: NTS



Revision/ Révision	Description/ Description	Date/ Date
0	ISSUED FOR TENDER	15/02/02

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CANADA BORDER SERVICES AGENCY

Project title/Titre du projet
PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

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Designed by/Concept par **MJW**
Drawn by/Dessiné par **PP**
PWGSC Project Manager/Administrateur de Projets TPSGC
Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin
BRACING DIAGRAMS

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0	ISSUED FOR TENDER	15/02/20
B	ISSUED FOR 90% CLIENT REVIEW	15/01/14
A	ISSUED FOR 50% CLIENT REVIEW	14/12/12

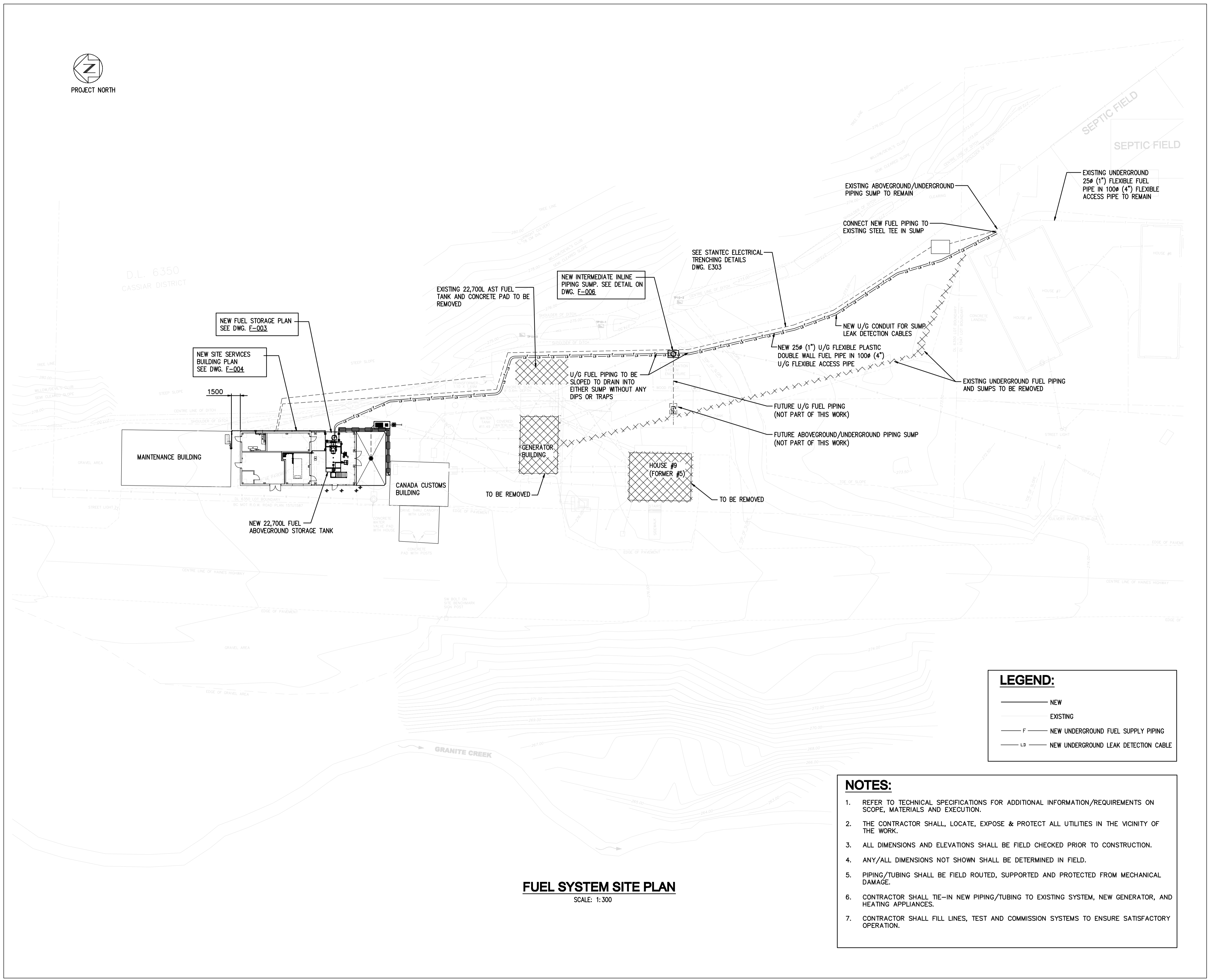
CANADA BORDER SERVICES AGENCY

Project title/Titre du projet
**PLEASANT CAMP PORT OF ENTRY
TENDER A
SITE SERVICES & SITE SERVICES BUILDING**

Consultant Signature Only
Designed by/Concept par
B.deM
Drawn by/Dessiné par
CK
PWGSC Project Manager/Administrateur de Projets TPSSC
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSSC

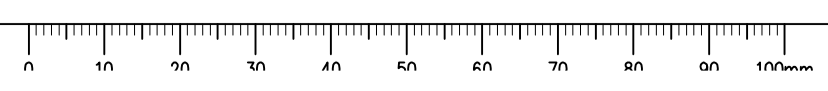
**FUEL SYSTEMS
SITE PLAN**

Project No./No. du projet R.071363.001	Sheet/Feuille F-001 OF	Revision no./La Révision no. 0
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FUEL SYSTEM SITE PLAN
SCALE: 1:300

- NOTES:**
- REFER TO TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION/REQUIREMENTS ON SCOPE, MATERIALS AND EXECUTION.
 - THE CONTRACTOR SHALL LOCATE, EXPOSE & PROTECT ALL UTILITIES IN THE VICINITY OF THE WORK.
 - ALL DIMENSIONS AND ELEVATIONS SHALL BE FIELD CHECKED PRIOR TO CONSTRUCTION.
 - ANY/ALL DIMENSIONS NOT SHOWN SHALL BE DETERMINED IN FIELD.
 - PIPING/TUBING SHALL BE FIELD ROUTED, SUPPORTED AND PROTECTED FROM MECHANICAL DAMAGE.
 - CONTRACTOR SHALL TIE-IN NEW PIPING/TUBING TO EXISTING SYSTEM, NEW GENERATOR, AND HEATING APPLIANCES.
 - CONTRACTOR SHALL FILL LINES, TEST AND COMMISSION SYSTEMS TO ENSURE SATISFACTORY OPERATION.



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B	ISSUED FOR 90% CLIENT REVIEW	15/01/14
A	ISSUED FOR 50% CLIENT REVIEW	14/12/12
Revision/Revision	Description/Description	Date/Date
Client/client		

CANADA BORDER SERVICES AGENCY

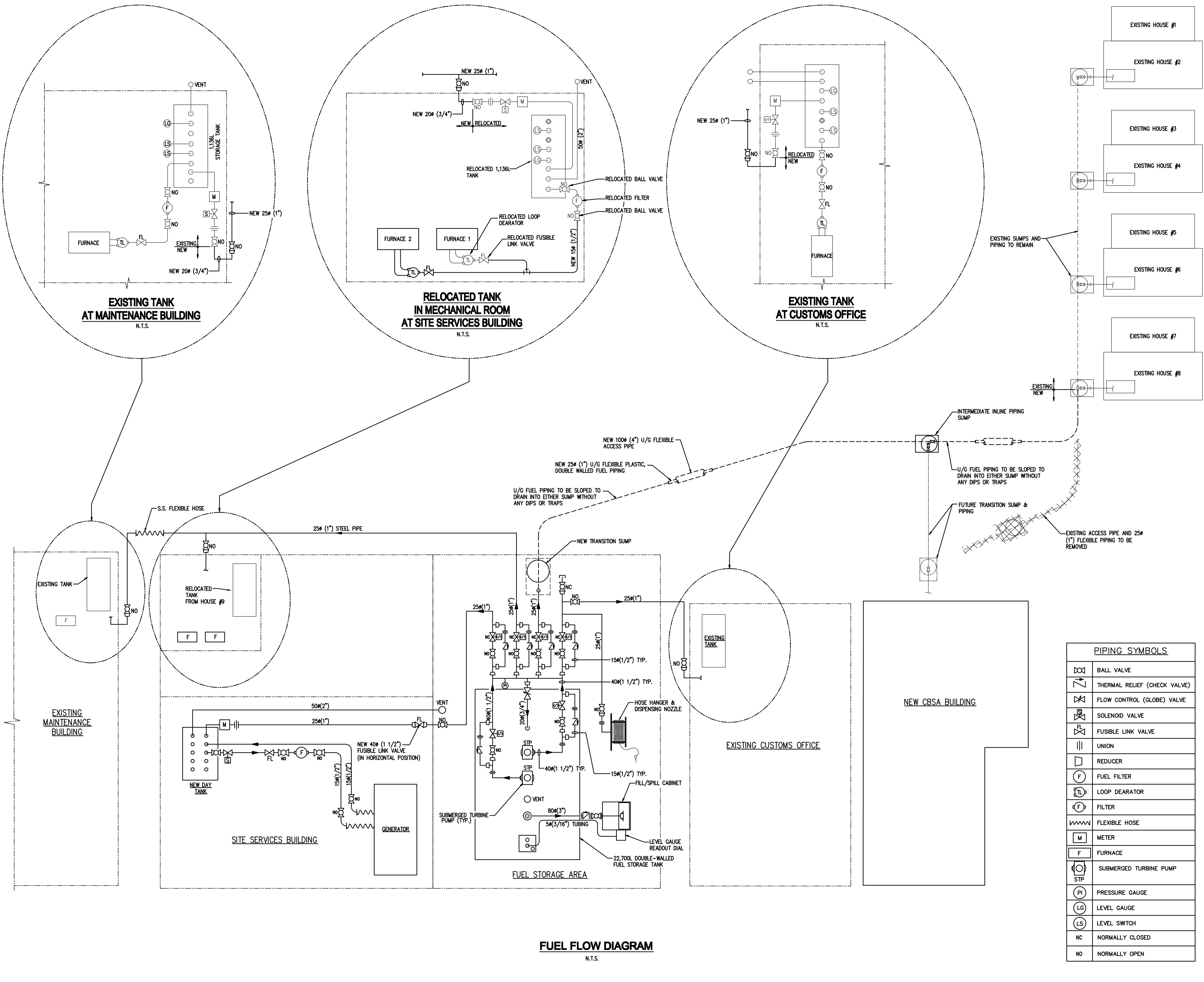
Project title/Titre du projet
**PLEASANT CAMP PORT OF ENTRY
TENDER A
SITE SERVICES & SITE SERVICES BUILDING**

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Designed by/Concept par
B.deM
Drawn by/Dessiné par
CK
PWSSC Project Manager/Administrateur de Projets TPSSC

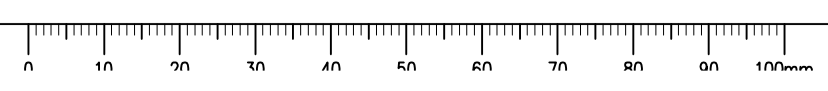
Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TPSSC

FUEL SYSTEMS
FLOW DIAGRAM

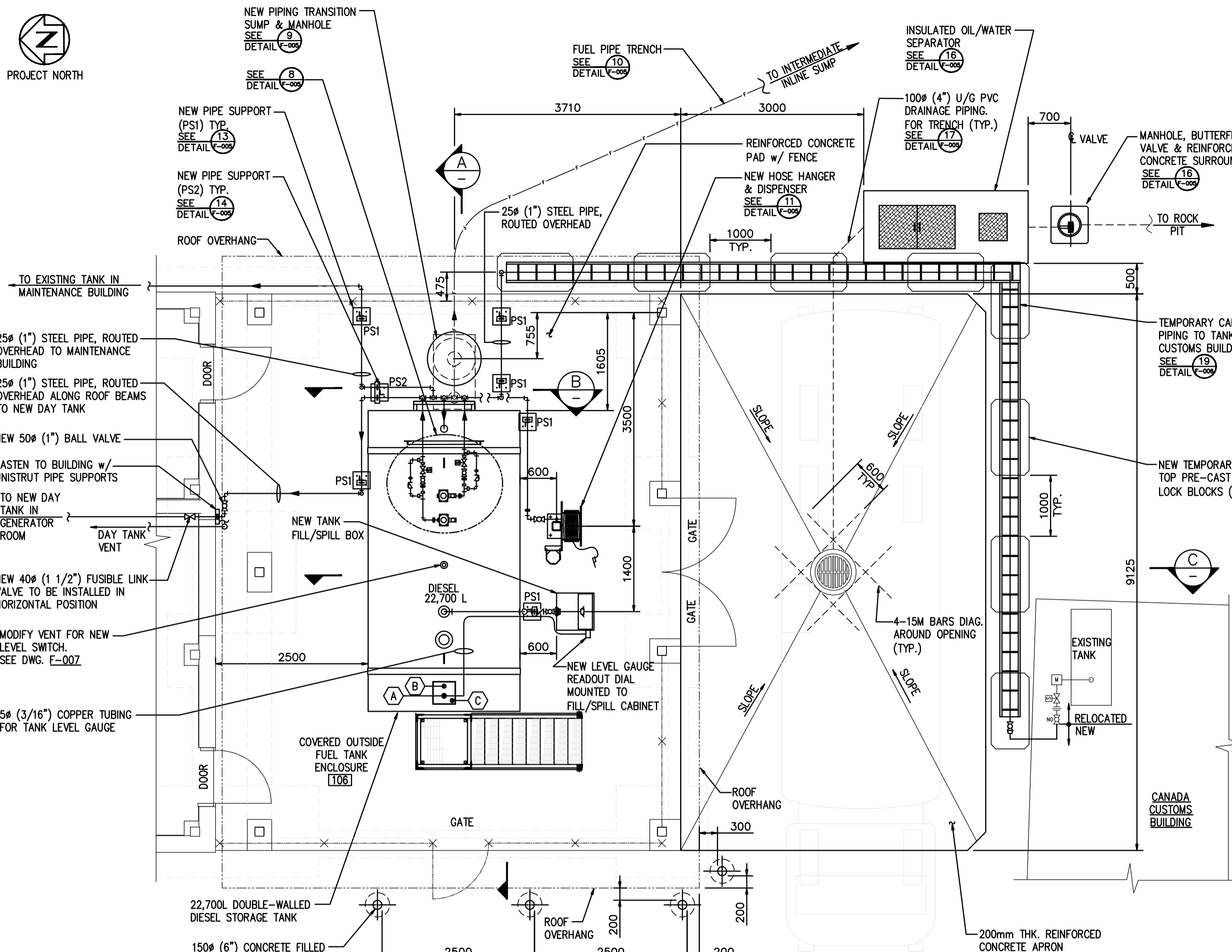
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FUEL FLOW DIAGRAM
N.T.S.



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FUEL STORAGE PLAN
SCALE: 1:50

PIPE/TUBING SUPPORT MAXIMUM SPACING (mm)		
NOMINAL PIPE SIZE (mm)	STL OR S.S. TUBING	STL OR S.S. SCH.40 OR SCH.80 PIPE
10# (3/8")	1200	1800
13# (1/2")	1200	1800
20# (3/4")	1500	2100
25# (1")	1800	2100
32 (1 1/4")	2100	2400
38# (1 1/2")	2400	2700
50# (2")	2400	3000

NOTE:
WHERE DIFFERENT SIZES OF PIPE/TUBING ARE RUN ALONG THE SAME ALIGNMENT, SUPPORT SPACING USED SHALL BE THAT FOR THE SMALLEST DIAMETER LINE.

- NOTES:**
- ALL DIMENSIONS SHALL BE FIELD CHECKED PRIOR TO PIPING FABRICATION AND INSTALLATION.
 - ANY/ALL DIMENSIONS NOT SHOWN SHALL BE DETERMINED IN FIELD.
 - FUEL PIPING AND TUBING SHALL BE FIELD ROUTED, SUPPORTED AND PROTECTED FROM MECHANICAL DAMAGE.
 - ALL FUEL PIPING ENTRIES THROUGH BUILDING WALLS SHALL BE ABOVEGROUND. WALL PENETRATIONS TO BE SEALED AS PER STANTEC DWG. M501.

DIESEL STORAGE TANK FITTING SCHEDULE

CAP. 22,700 L
DOUBLE WALLED VACUUM MONITORED
2464 DIA x 4877 LG
(97\" DIA x 192\" LG)

- (A) 50# (2\") FITTING C/W 50#x20# (2\"x3/4\") D.T. BUSHING, AND 3/16\" DROP TUBING - LEVELMETER
- (B) 40# (1 1/2\") FITTING C/W 40# (1 1/2\") NIPPLE, TIGHT FILL CONNECTION AND DUST CAP (KAMLOK OR EQUAL) - DIPPING PORT
- (C) DRAIN VALVE - SPRING LOADED, PLUNGER TYPE
- (D) 150# (6\") FNPT FITTING, 150# (6\") NIPPLE, HIGH PRESSURE OVERFILL PREVENTION VALVE AND 80# (3\") RF FLANGE - FILL
- (E) EMERGENCY VENT C/W 1300mm LONG EXTENSION & WELDED IN ANTI-THEFT SCREEN
- (F) 80# (3\") FITTING FOR 80# (3\") VENT PIPE C/W OPEN VAPOUR VENT & RAIN HOOD AND LEVEL SWITCH
- (G1) 150# (6\") FITTING C/W 150# x 100# (6\"x4\") BUSHING, 100# (4\") NIPPLE & SUBMERGED TURBINE PUMP
- (G2) 150# (6\") FITTING C/W 150# x 100# (6\"x4\") BUSHING, 100# (4\") NIPPLE & SUBMERGED TURBINE PUMP
- (H) 50# (2\") FITTING C/W 50# x 20# (2\"x3/4\") DOUBLE TAPPED BUSHING, - BYPASS LINE & 20# (3/4\") SCH.40 DROP TUBE
- (J) VACUUM MONITOR
- (K) INTERSTITIAL SPACE EMERGENCY VENT



Revision/Client	Description/Description	Date/Date
0	ISSUED FOR TENDER	15/02/02
B	ISSUED FOR 90% CLIENT REVIEW	15/01/14
A	ISSUED FOR 50% CLIENT REVIEW	14/12/12

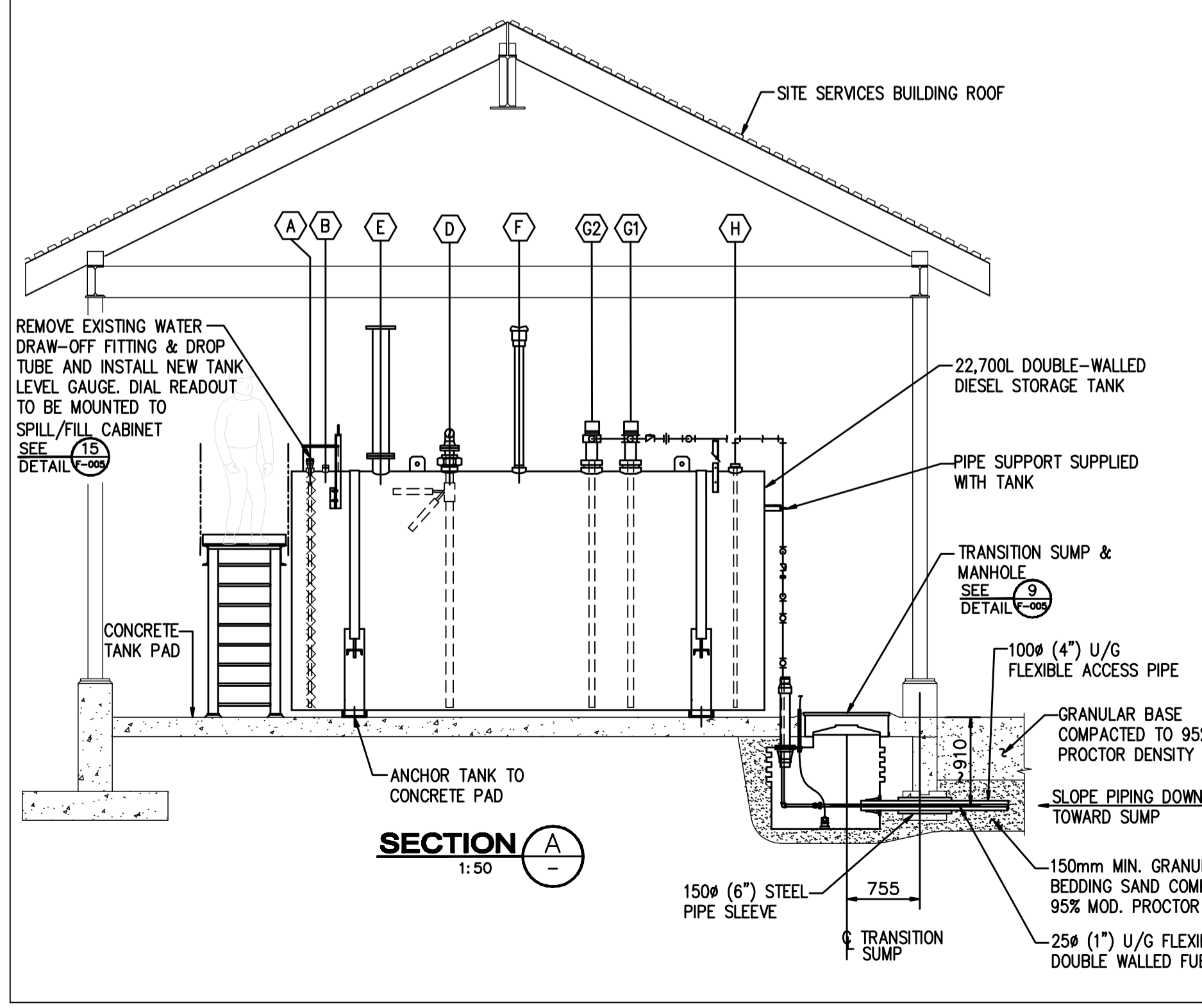
CANADA BORDER SERVICES AGENCY

Project title/Titre du projet
PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

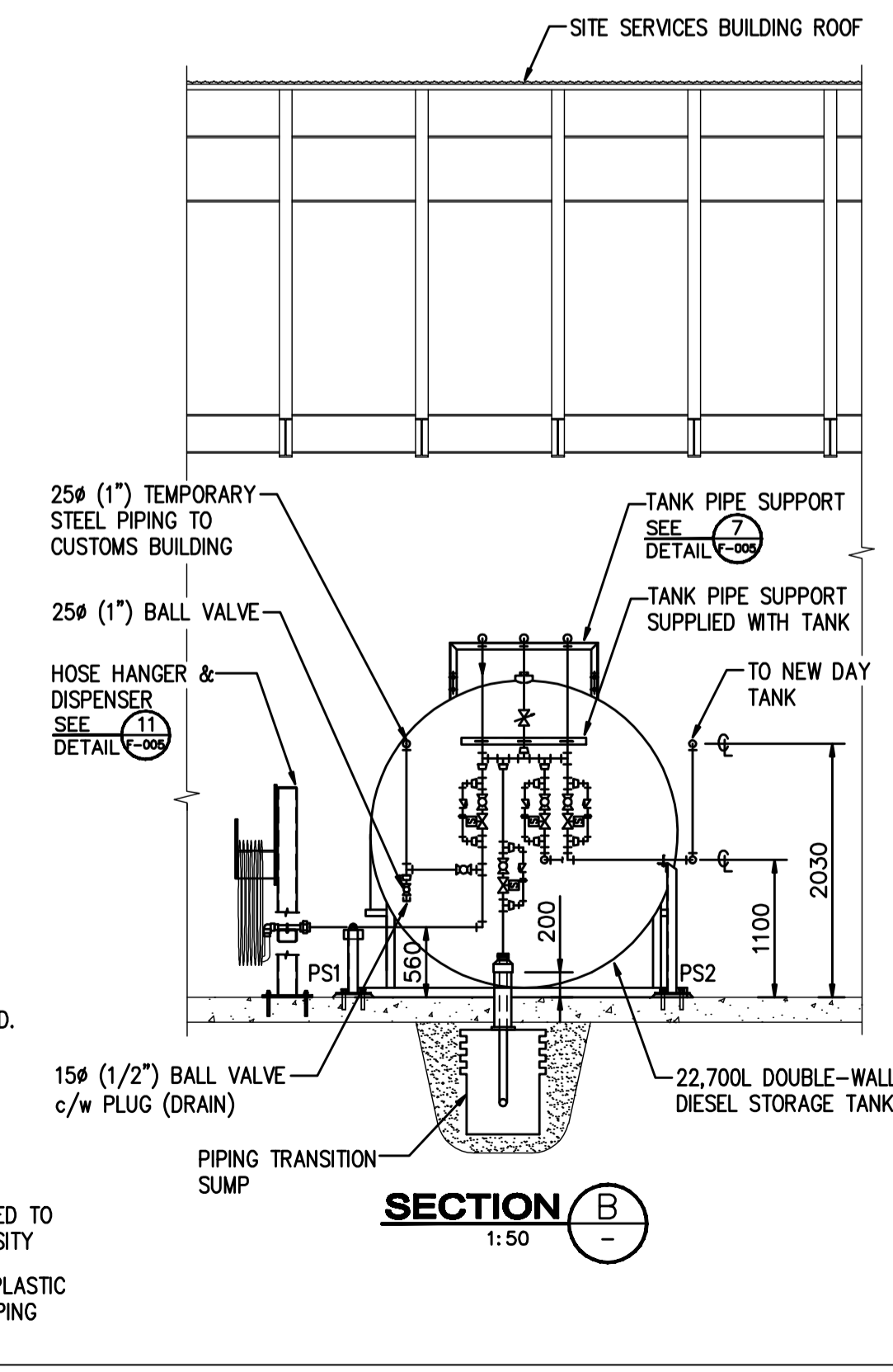
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Regional Manager, Architectural and Engineering Services, Gestionnaire régionale, Services d'architectural et de génie, TPSSC

FUEL SYSTEMS FUEL STORAGE PLAN & SECTIONS

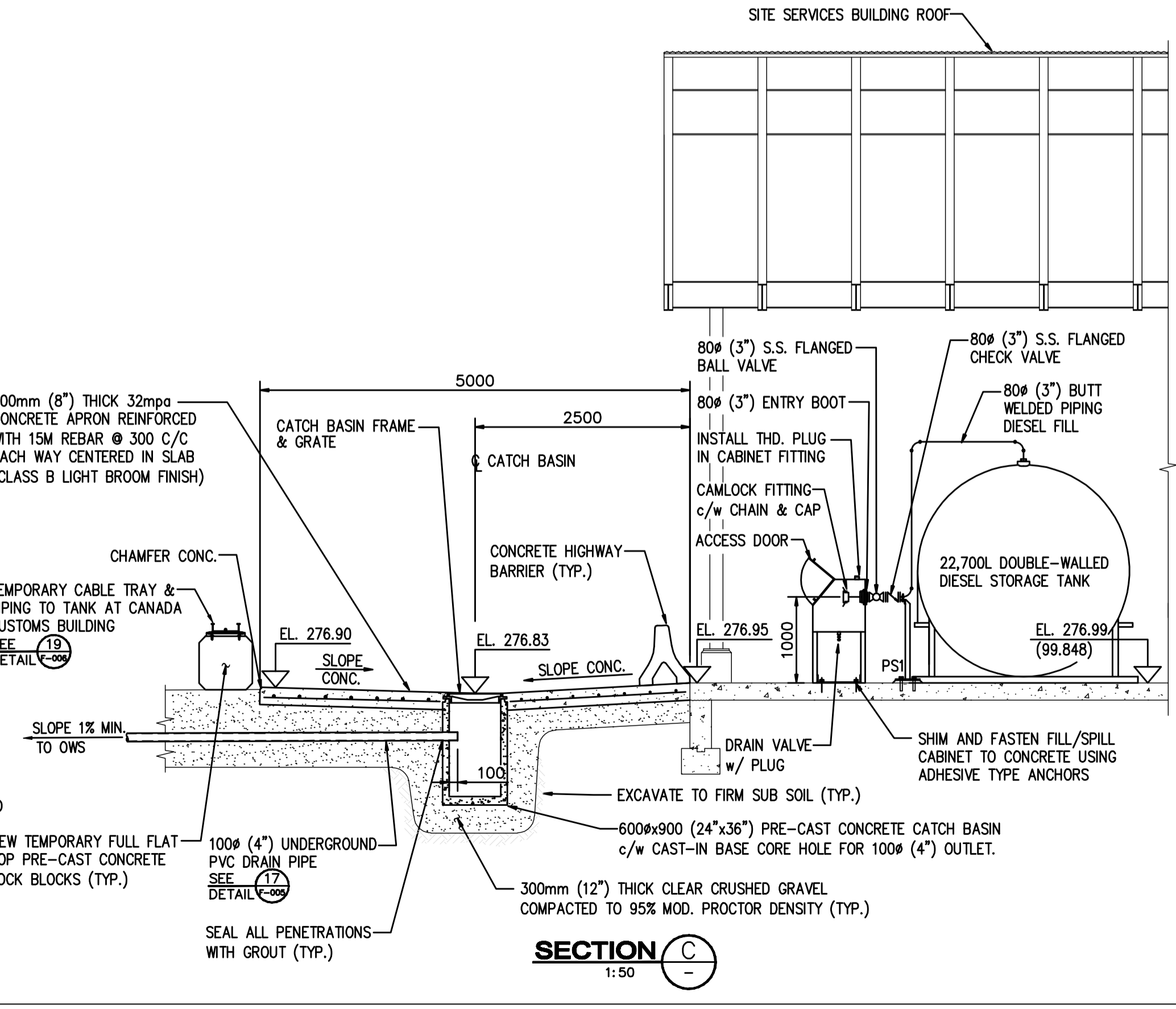
Project No./No. du projet R.071363.001	Sheet/Feuille F-003 OF	Revision no./La Révision no. 0
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SECTION A
1:50



SECTION B
1:50



SECTION C
1:50

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0	ISSUED FOR TENDER	15/02/02
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A	ISSUED FOR 50% CLIENT REVIEW	14/12/12

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

PLEASANT CAMP PORT OF ENTRY
TENDER A
SITE SERVICES & SITE SERVICES BUILDING

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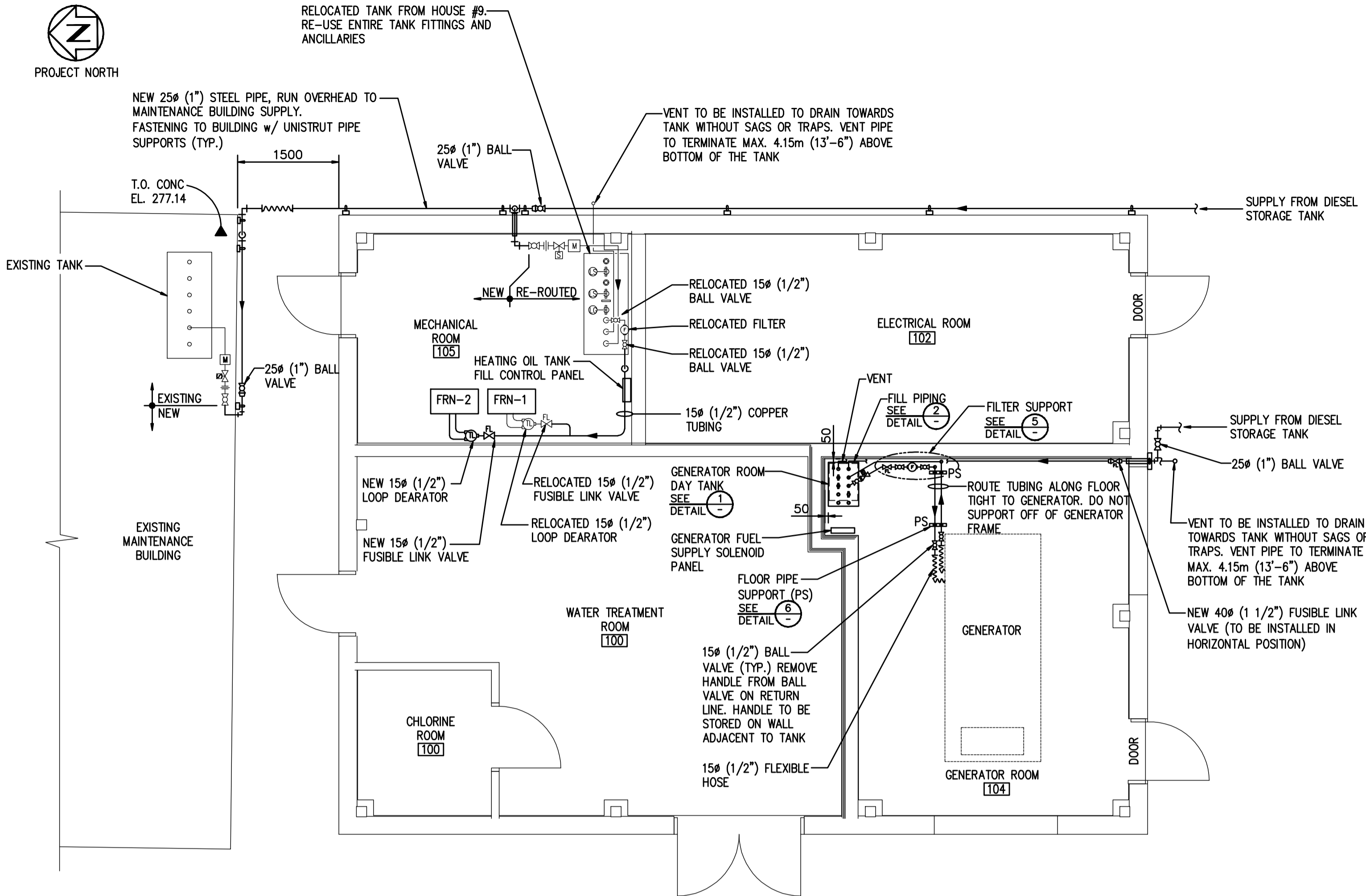
Drawing title/Titre du dessin

FUEL SYSTEMS
SITE SERVICES BUILDING
PLAN AND DETAILS

Project No./No. du projet R.071363.001	Sheet/Feuille F-004 OF	Revision no./La Révision no. 0
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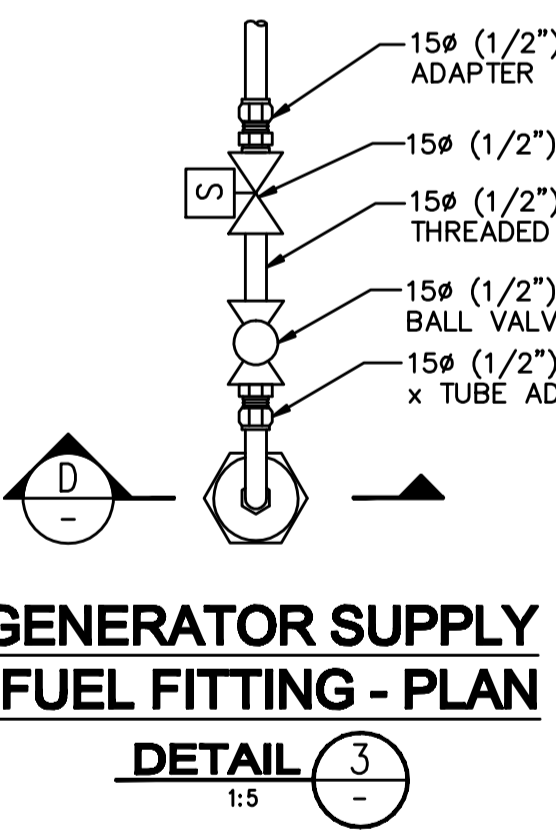


PROJECT NORTH



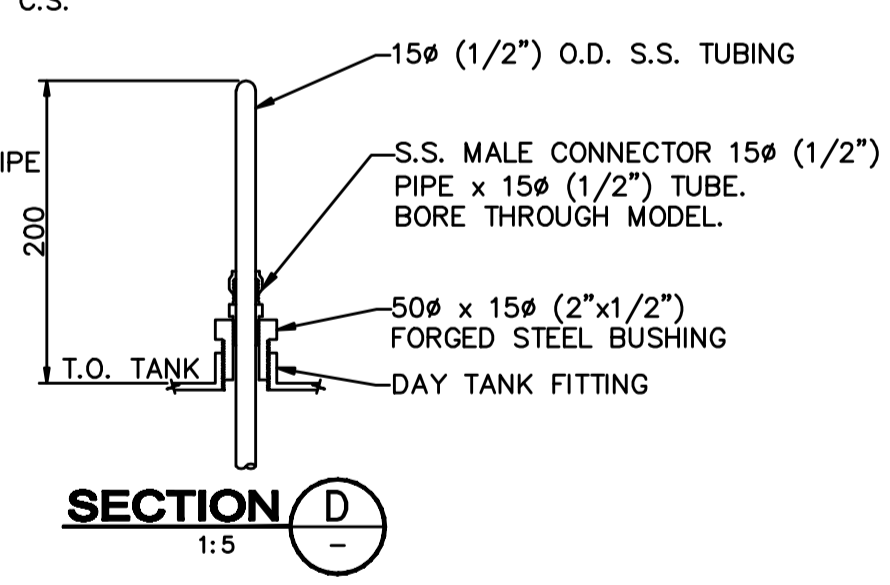
SITE SERVICES BUILDING PLAN

SCALE: 1:50

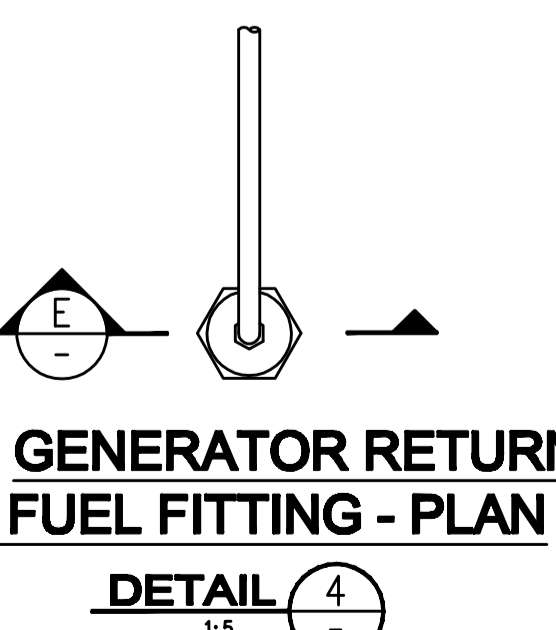


GENERATOR SUPPLY FUEL FITTING - PLAN

DETAIL 3
1:5

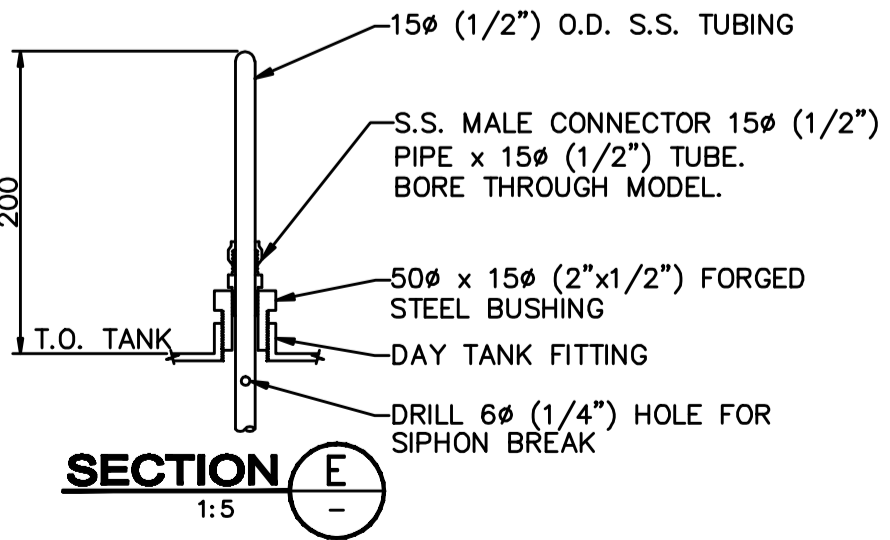


SECTION D

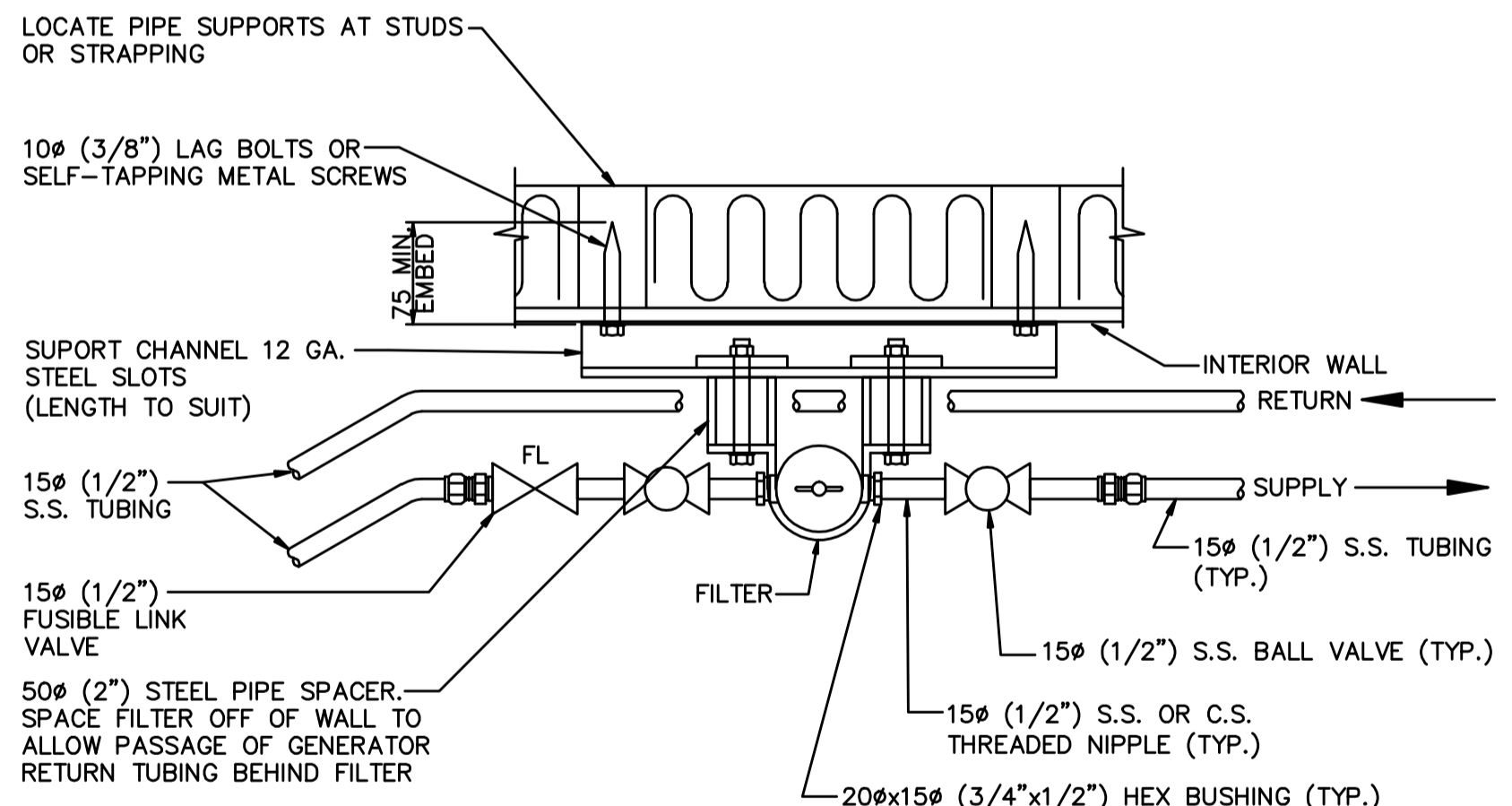


GENERATOR RETURN FUEL FITTING - PLAN

DETAIL 4
1:5

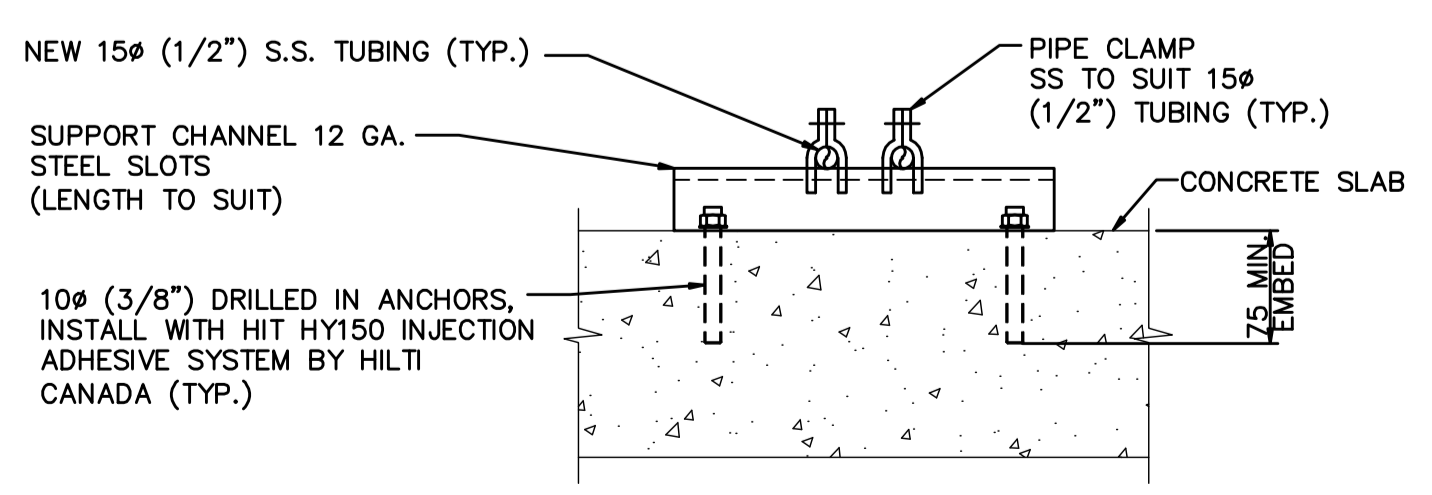


SECTION E



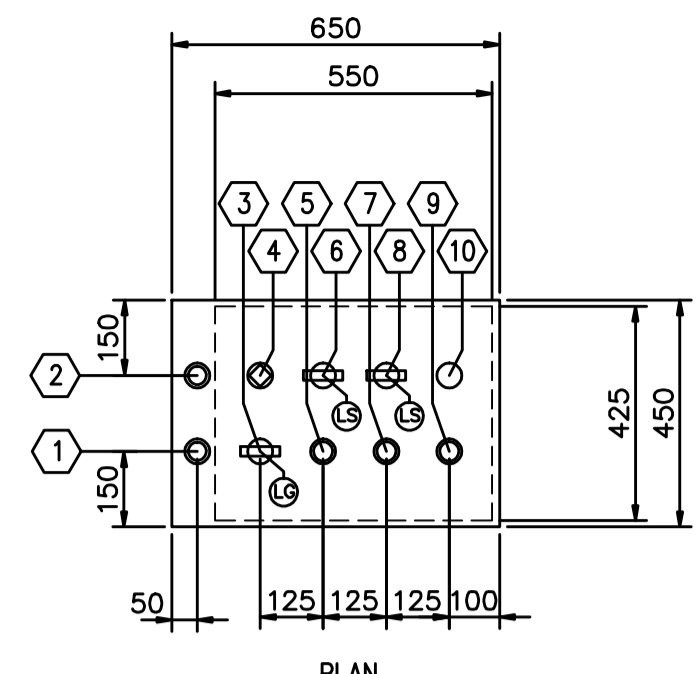
FILTER SUPPORT - PLAN

DETAIL 5
1:5



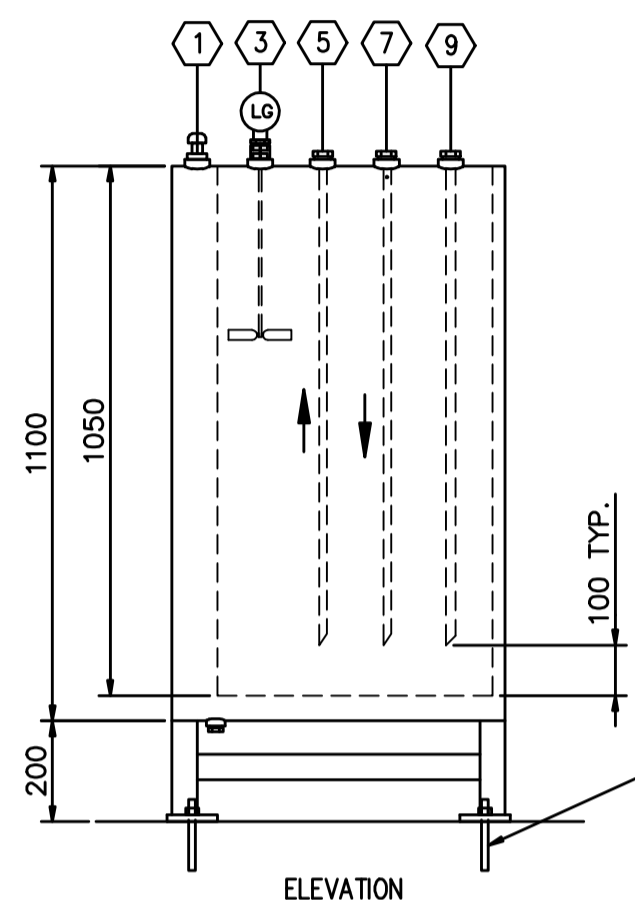
FLOOR PIPE SUPPORT (PS)

DETAIL 6
1:5



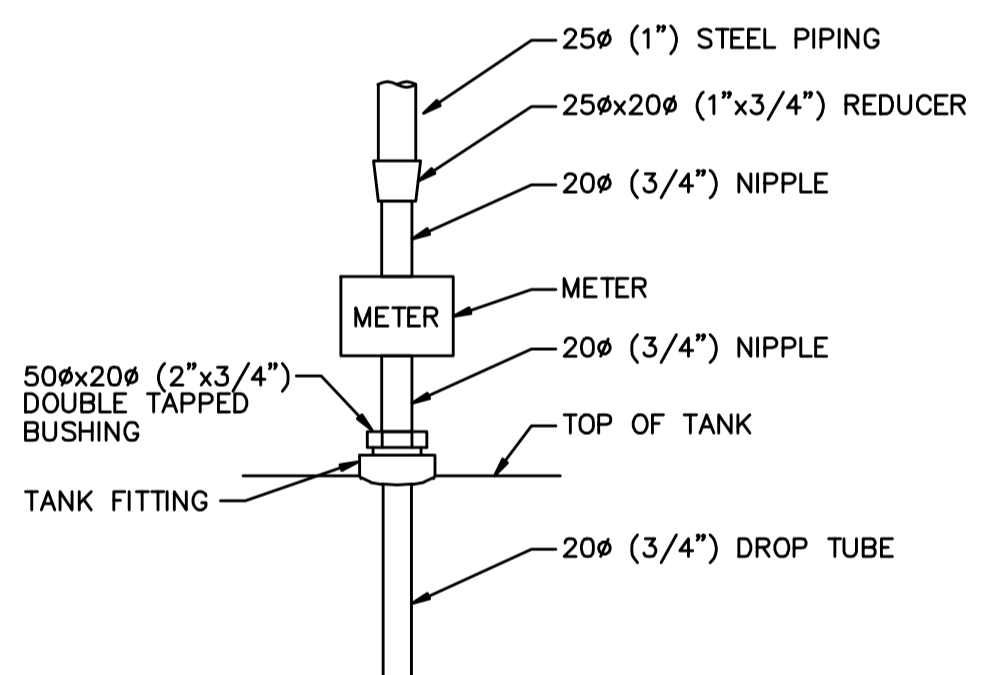
GENERATOR ROOM - DAY TANK FITTING SCHEDULE

- 245L
650Lx450Wx1100H (255"x18x43")
ULC-S602 (DOUBLE-WALL VACUUM MONITORED)
- 50# (2") FNPT FITTING w/ NIPPLE & THREADED CAP - CONTAINMENT INSPECTION PORT
 - 50# (2") FNPT FITTING w/ VENTED CAP - INTERSTITIAL VENT
 - 50# (2") FNPT FITTING - LEVEL GAUGE
 - 50# (2") FNPT FITTING W/PLUG - SPARE
 - 50# (2") FNPT FITTING c/w 50#x15# (2"x1/2") BUSHING AND 15# (1/2") S.S. DROP TUBE - GENERATOR SUPPLY (SEE DETAIL THIS DWG.)
 - 50# (2") FNPT FITTING - LEVEL ALARM SWITCH
 - 50# (2") FNPT FITTING c/w 50#x15# (2"x1/2") BUSHING AND 15# (1/2") S.S. DROP TUBE. DRILL 6# (1/4") HOLE IN DROP TUBE FOR SIPHON BREAK. GENERATOR RETURN (SEE DETAIL THIS DWG.)
 - 50# (2") FNPT FITTING W/PLUG - AUTO PUMP START/STOP - LEVEL SWITCH
 - 50# (2") FNPT FITTING c/w 50#x20# (2"x3/4") DOUBLE TAPPED BUSHING & 20# (3/4") DROP PIPE - FILL (SEE DETAILS THIS DWG.)
 - 50# (2") FNPT FITTING - VENT PIPE AND OPEN VAPOUR VENT WITH RAIN HOOD



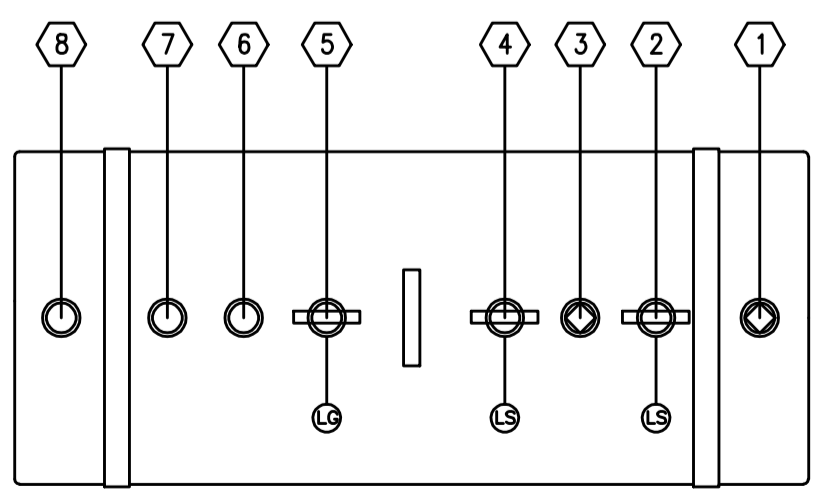
GENERATOR ROOM - DAY TANK

DETAIL 1
1:15



DAY TANK FILL PIPING

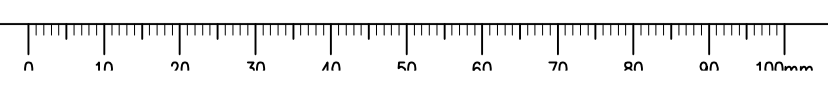
DETAIL 2
1:5



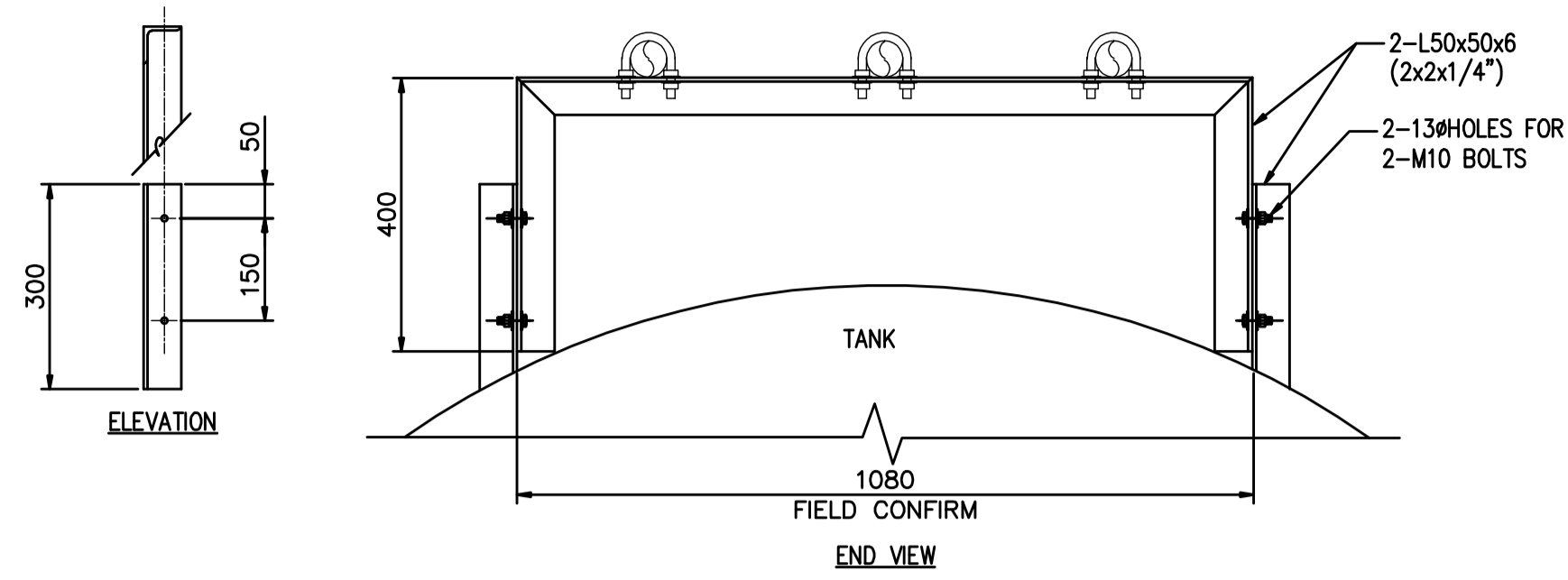
MECHANICAL ROOM TANK

MECHANICAL ROOM TANK FITTING SCHEDULE

- 1,136L
1575Lx660Wx1270H (62"x26x50")
ULC-S602
- 50# (2") FNPT FITTING W/PLUG - SPARE
 - 50# (2") FNPT FITTING - LEVEL SWITCH
 - 50# (2") FNPT FITTING - SPARE
 - 50# (2") FNPT FITTING - LEVEL SWITCH
 - 50# (2") FNPT FITTING - LEVEL GAUGE
 - 50# (2") FNPT FITTING c/w 50# x 15# (2" x 1/2") DOUBLE TAPPED BUSHING AND 15# (1/2") DROP PIPE - FURNACE SUPPLY
 - 50# (2") FNPT FITTING FOR 50# (2") VENT PIPE c/w OPEN VAPOUR VENT & RAIN HOOD - TANK VENT
 - 50# (2") FNPT FITTING c/w 50# x 20# (2" x 3/4") DOUBLE TAPPED BUSHING AND 20# (3/4") DROP TUBE - FILL

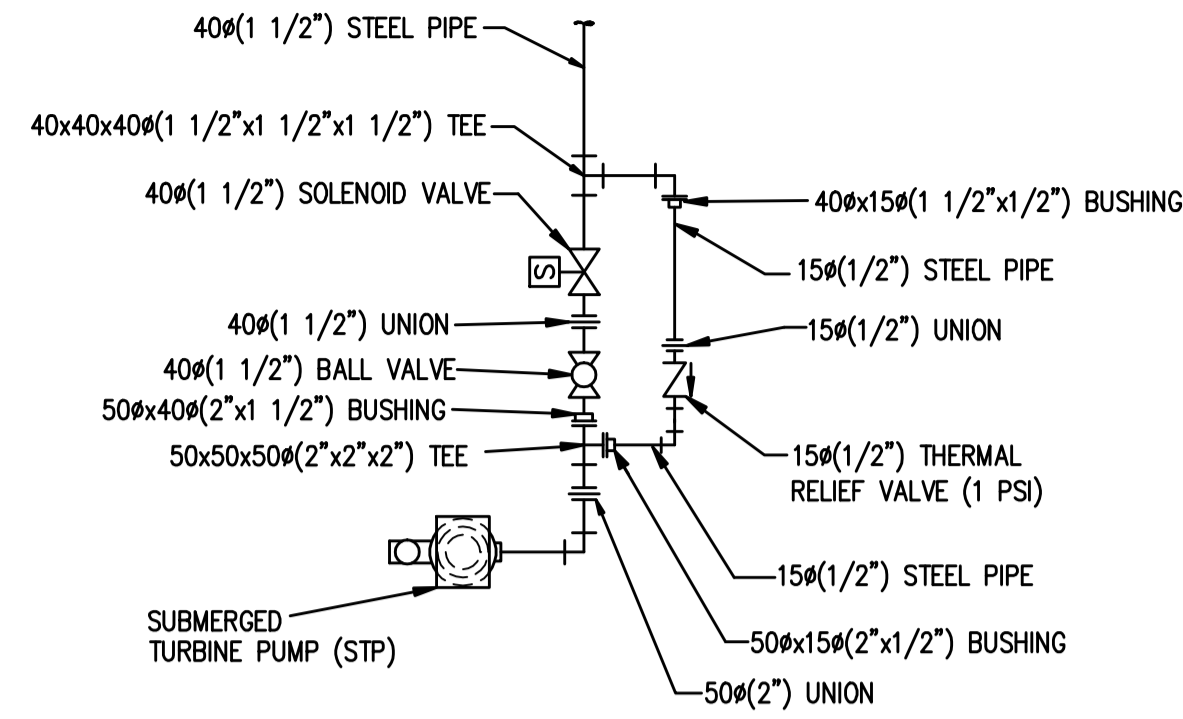


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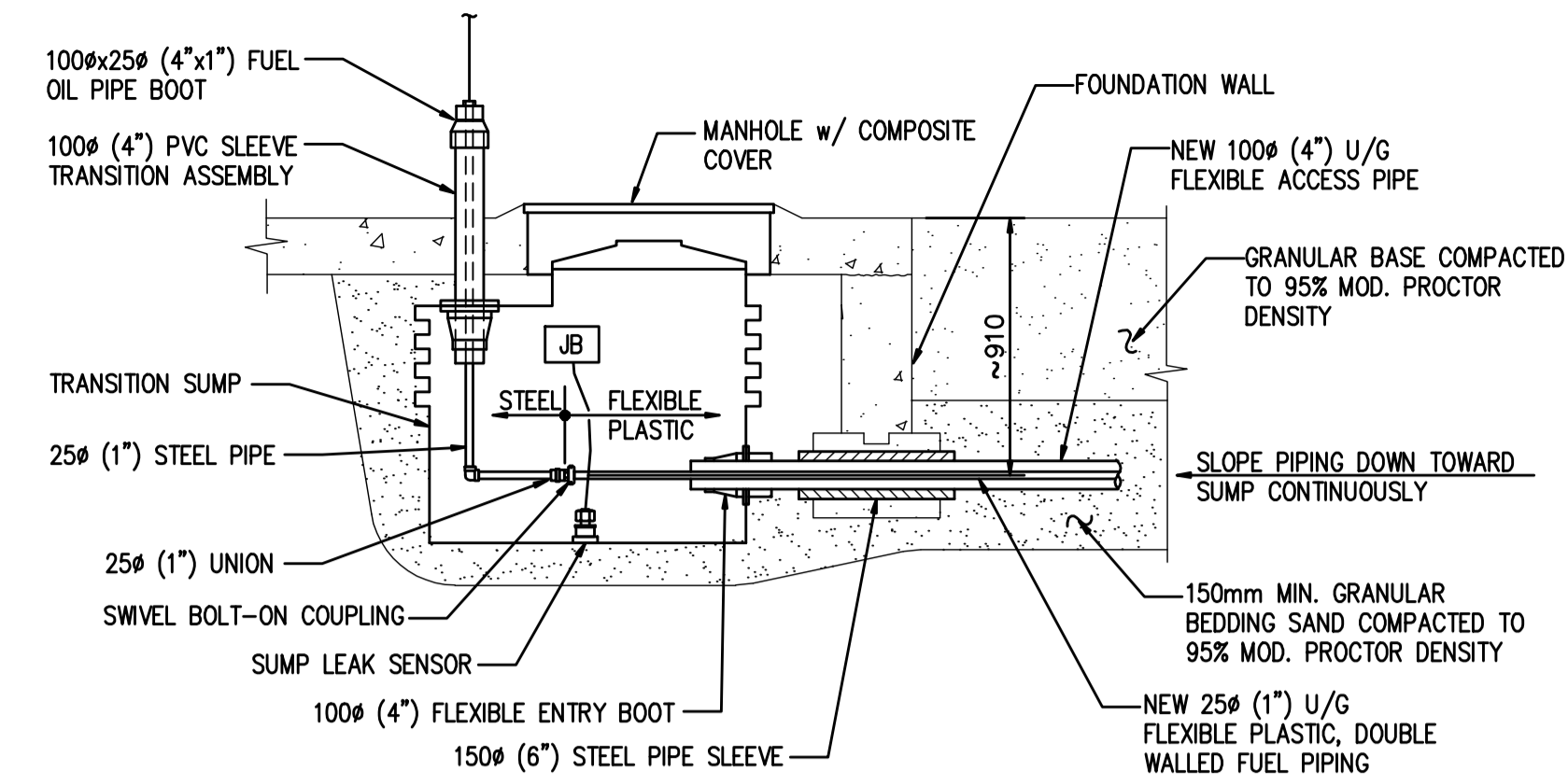
TANK PIPE SUPPORT

DETAIL 7
1:10 F-003



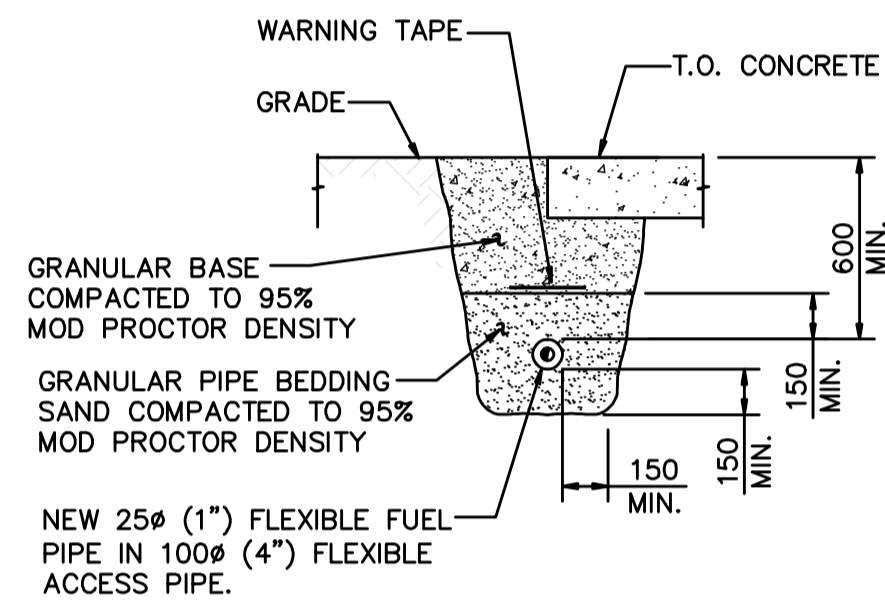
(TYPICAL FOR BOTH PUMP INSTALLATIONS)

DETAIL 8
N.T.S. F-003



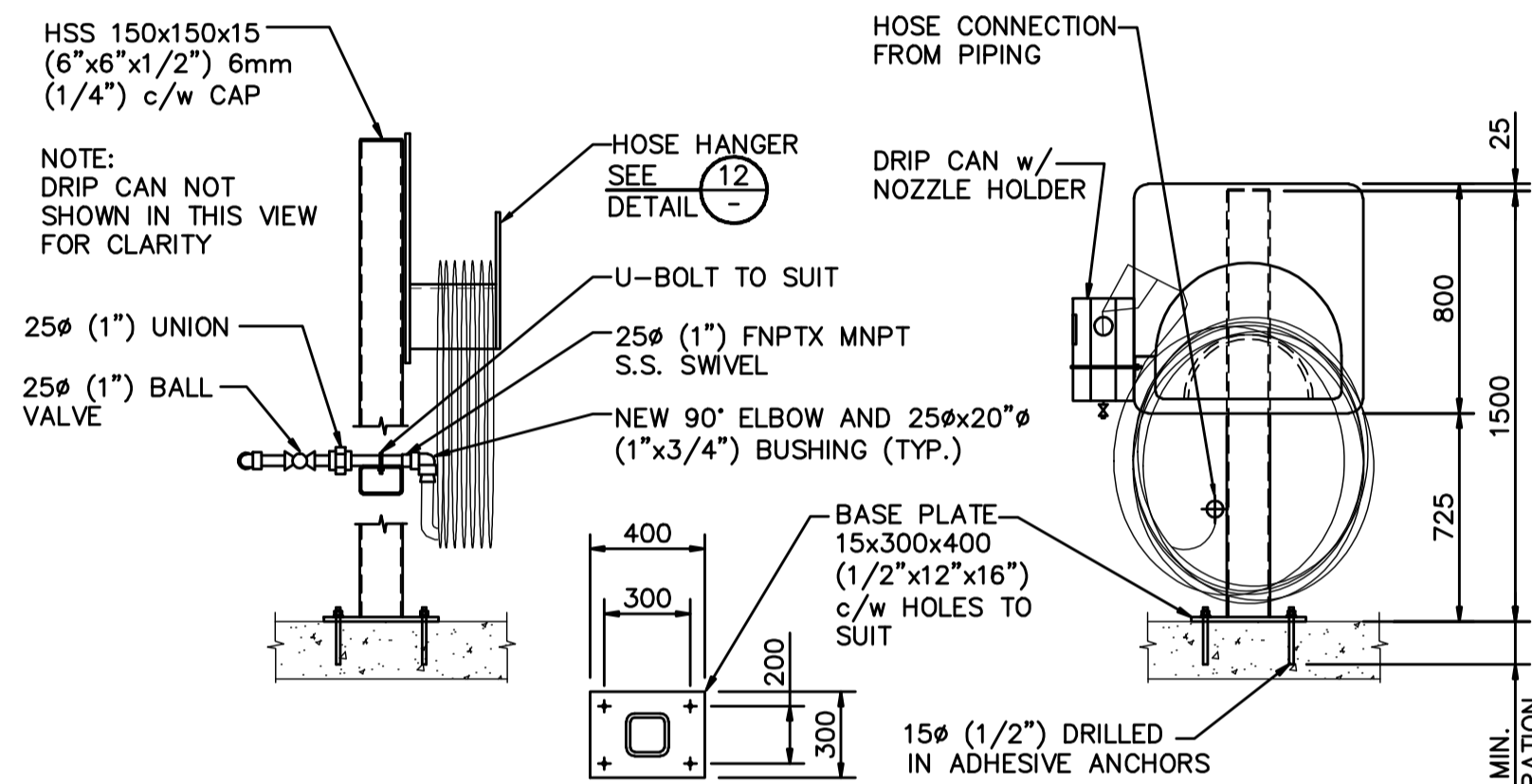
TRANSITION SUMP

DETAIL 9
1:25 F-003



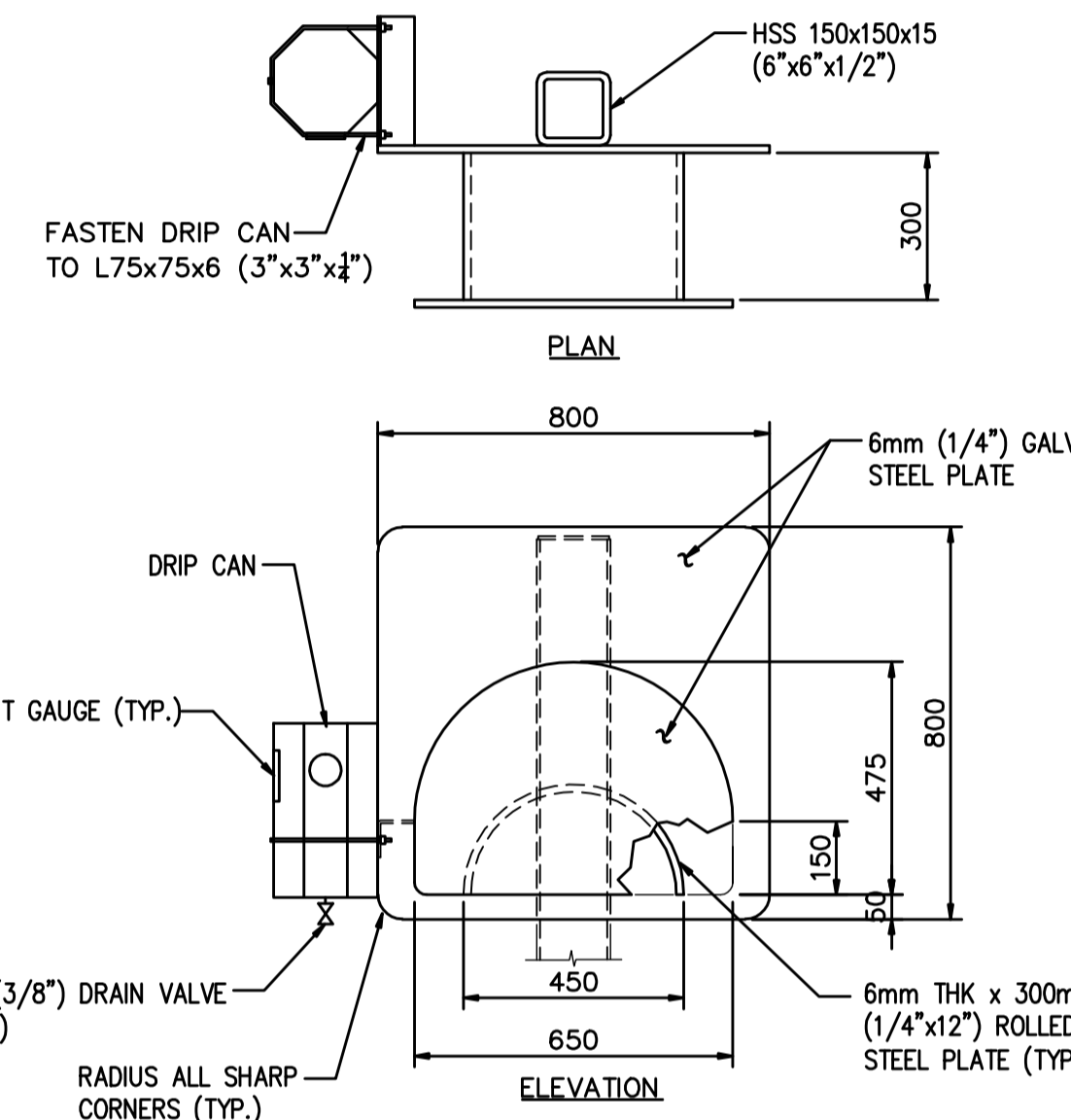
FUEL PIPE TRENCH

DETAIL 10
1:25 F-003



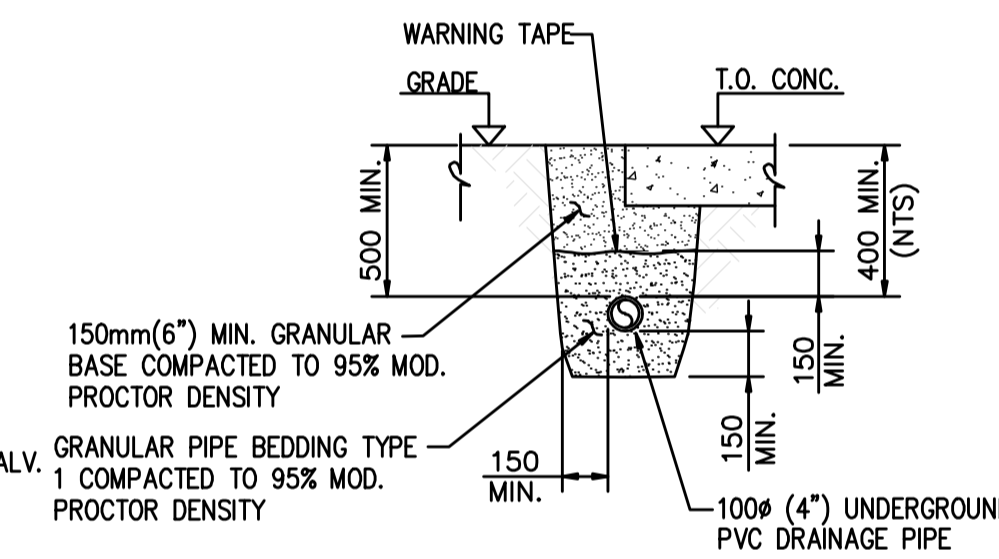
HOSE HANGER ARRANGEMENT

DETAIL 11
1:25 F-003



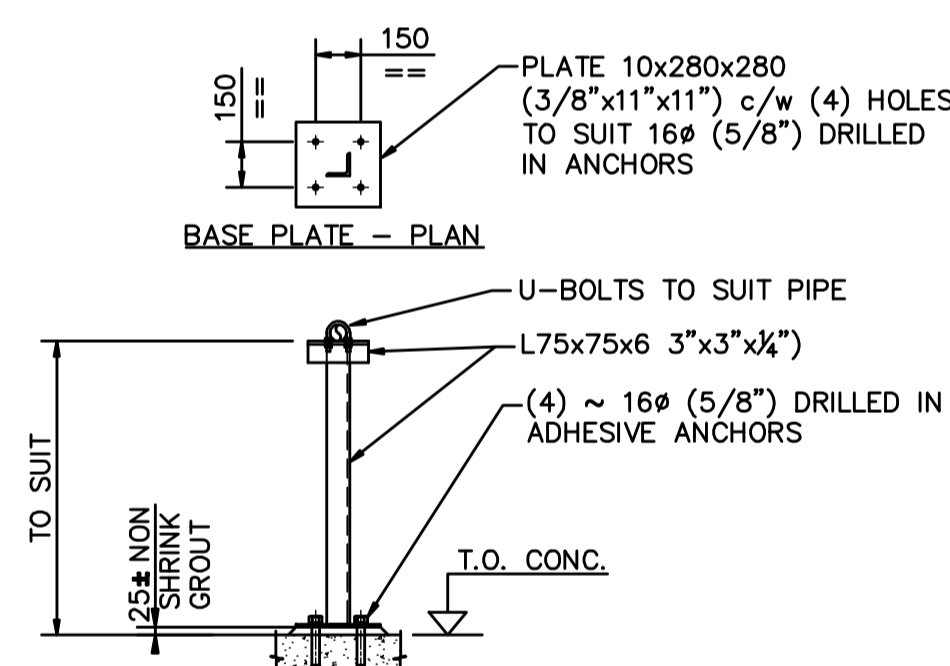
HOSE HANGER

DETAIL 12
1:15 F-003



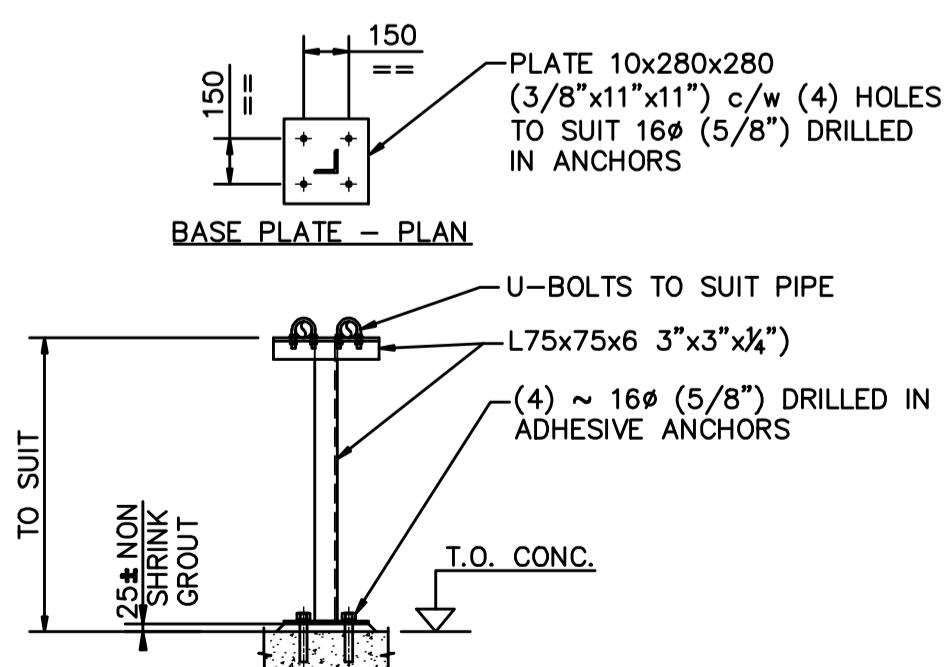
DRAINAGE PIPE TRENCH

DETAIL 17
1:25 F-003



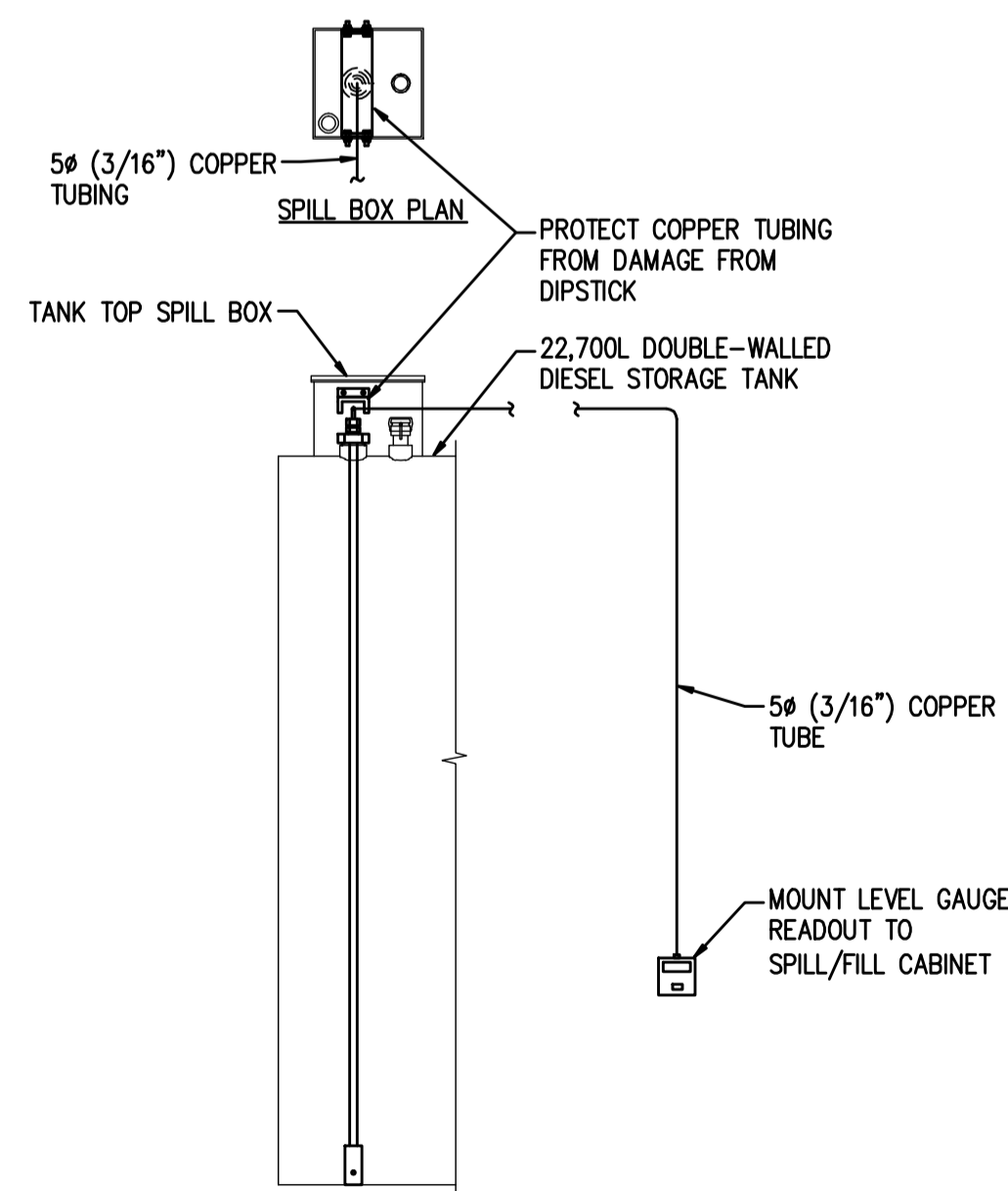
PIPE SUPPORT (PS1)

DETAIL 13
1:25 F-003



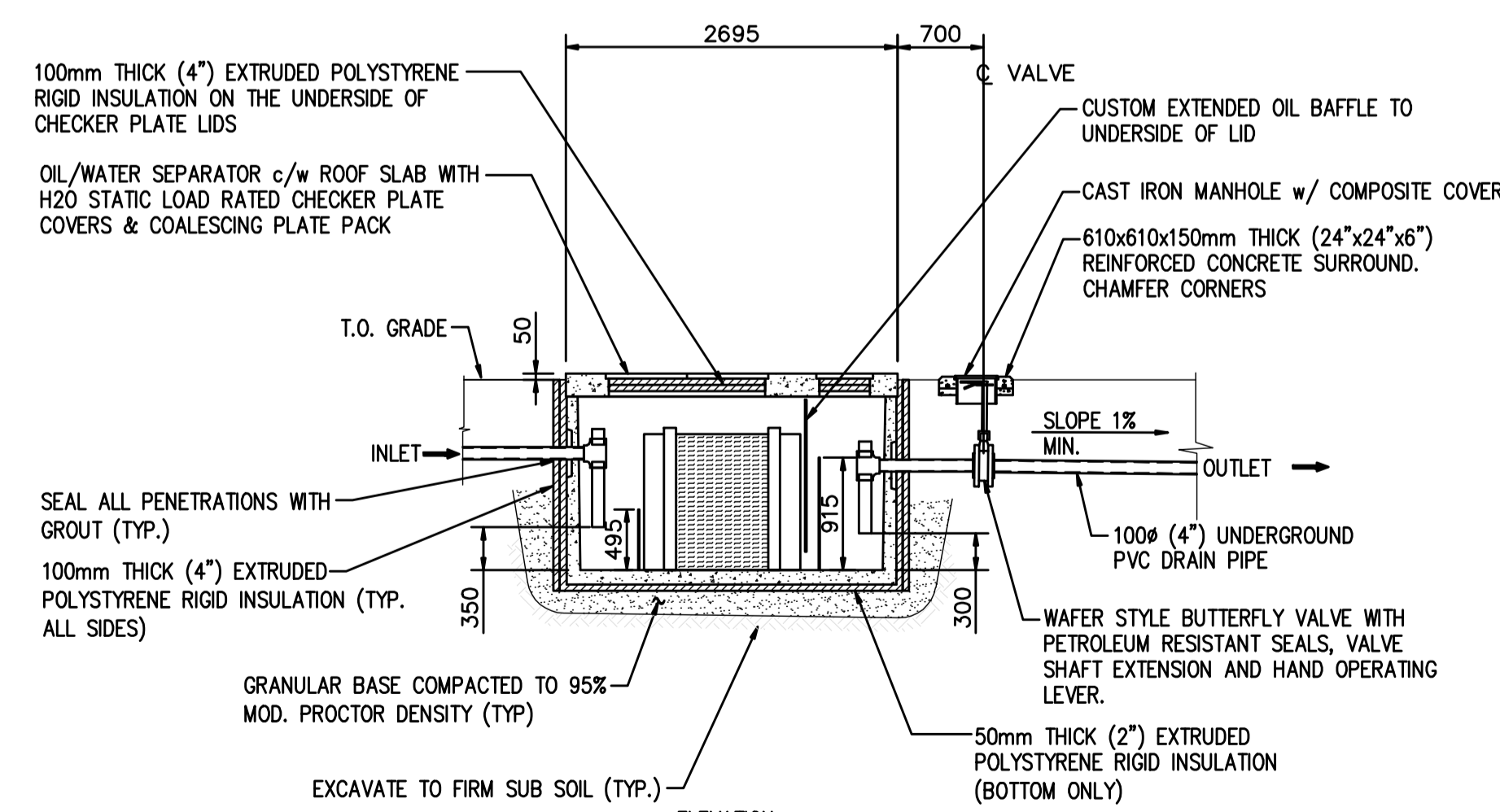
PIPE SUPPORT (PS2)

DETAIL 14
1:25 F-003



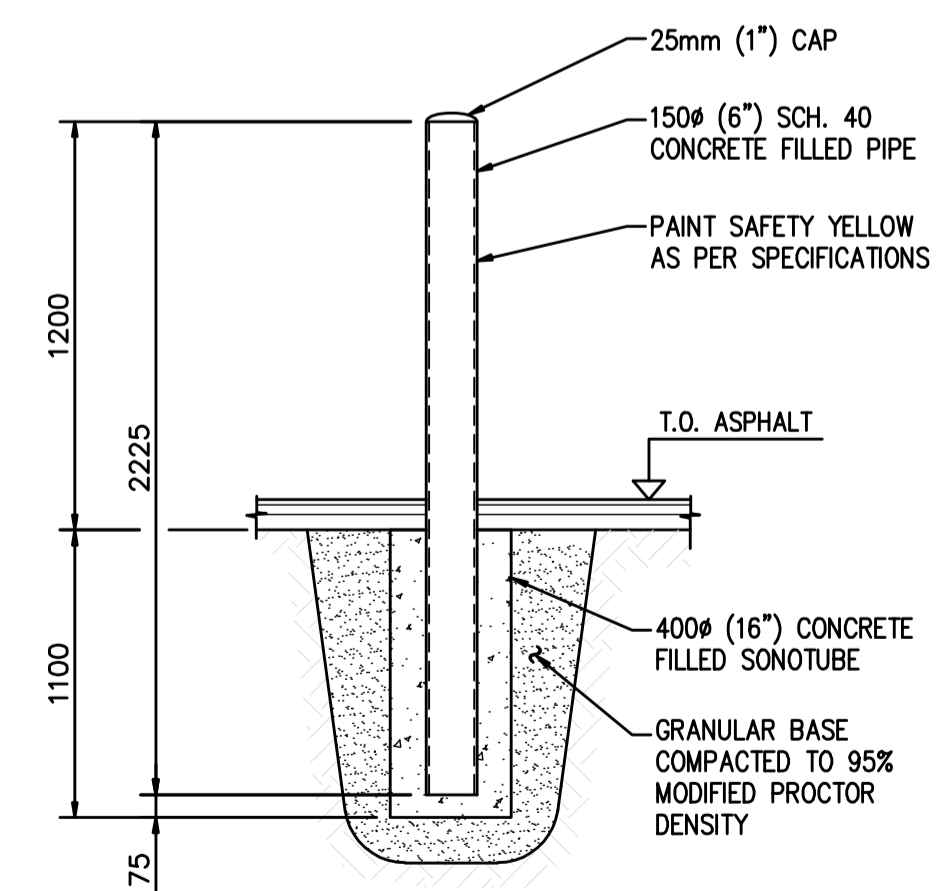
NEW LEVEL GAUGE INSTALLATION

DETAIL 15
1:25 F-003



INSULATED OIL/WATER SEPARATOR

DETAIL 16
1:50 F-003



CONCRETE FILLED STEEL BOLLARD

DETAIL 18
1:25 F-003



Revision/Revision	Description/Description	Date/Date
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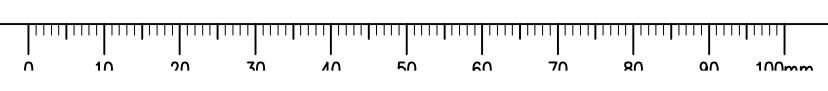
CANADA BORDER SERVICES AGENCY

Project title/Titre du projet
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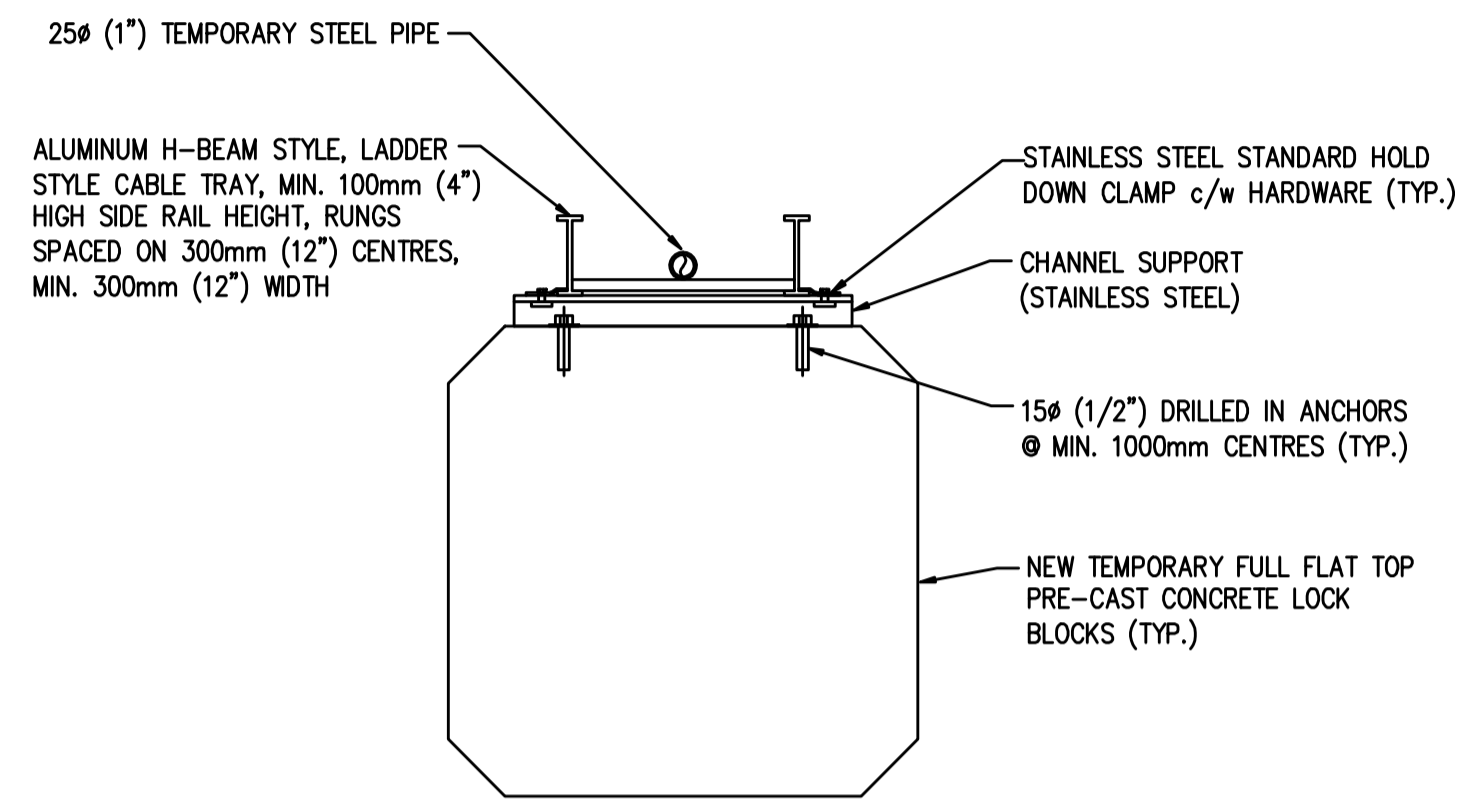
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Drawing title/Titre du dessin

FUEL SYSTEMS MECHANICAL/CIVIL DETAILS (SHEET 1)

Project No./No. du projet R.071363.001	Sheet/Feuille F-005 OF	Revision no./La Révision no. 0
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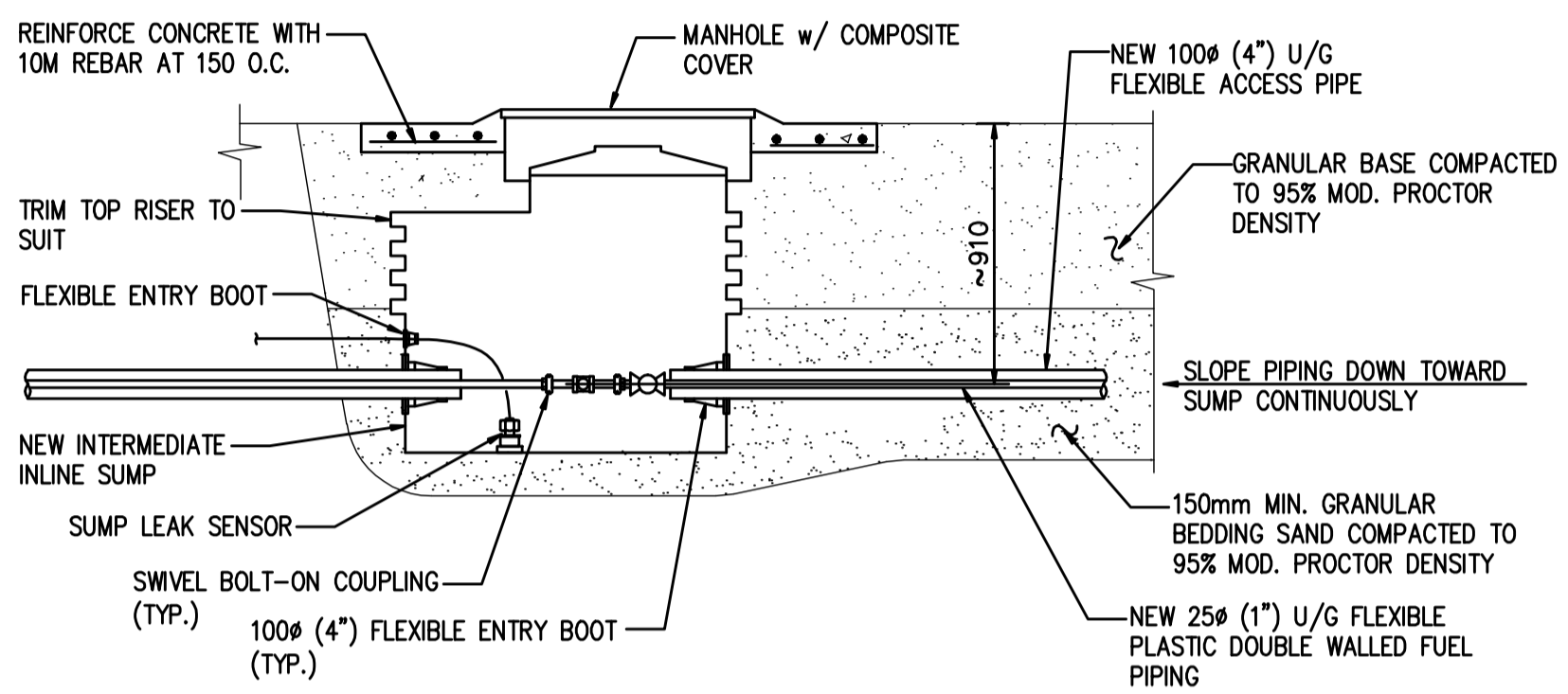
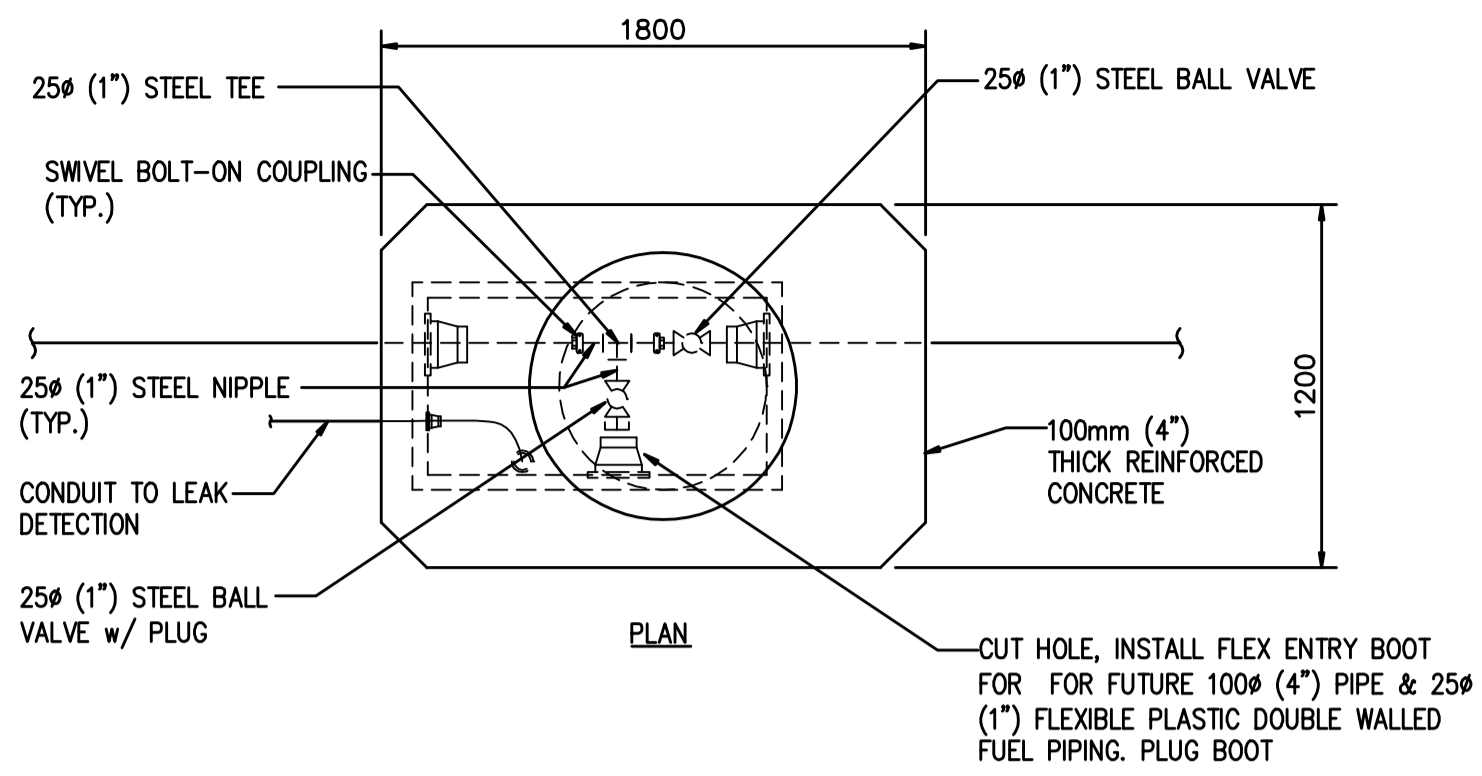


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TEMPORARY CABLE TRAY & PIPING TO TANK AT CANADA CUSTOMS BUILDING

DETAIL 19
1:10 F-003



INTERMEDIATE INLINE SUMP

DETAIL 20
1:25 F-001



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0	ISSUED FOR TENDER	15/02/02
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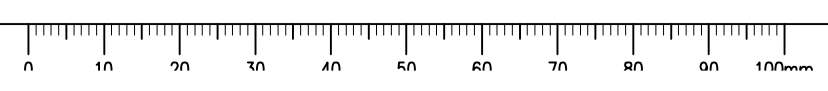
CANADA BORDER SERVICES AGENCY

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PWSC Project Manager/Administrateur de Projets TPSCG
Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architectural et de génie, TPSCG

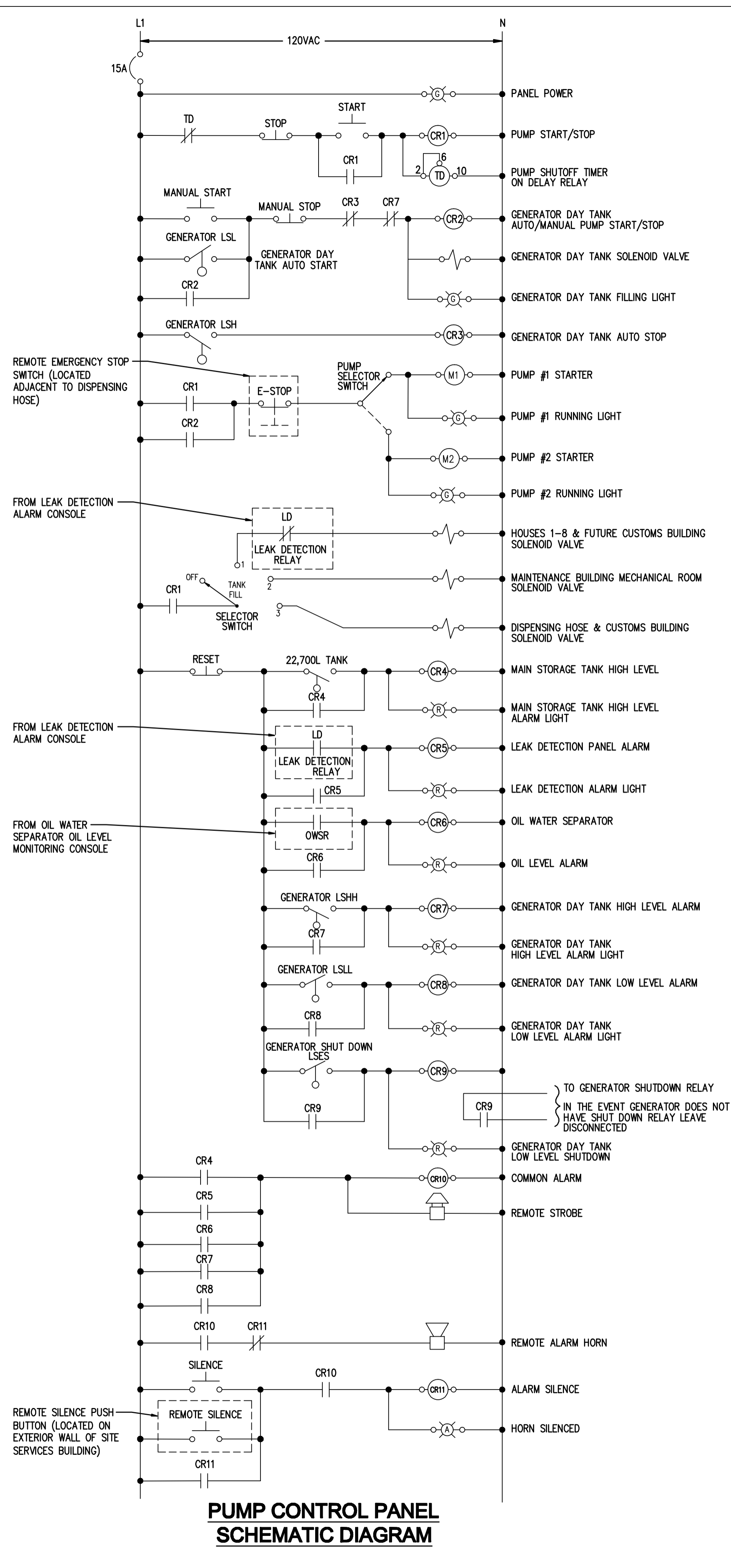
FUEL SYSTEMS MECHANICAL/CIVIL DETAILS (SHEET 2)

Project No./No. du projet R.071363.001	Sheet/Feuille F-006 OF	Revision no./La Révision no. 0
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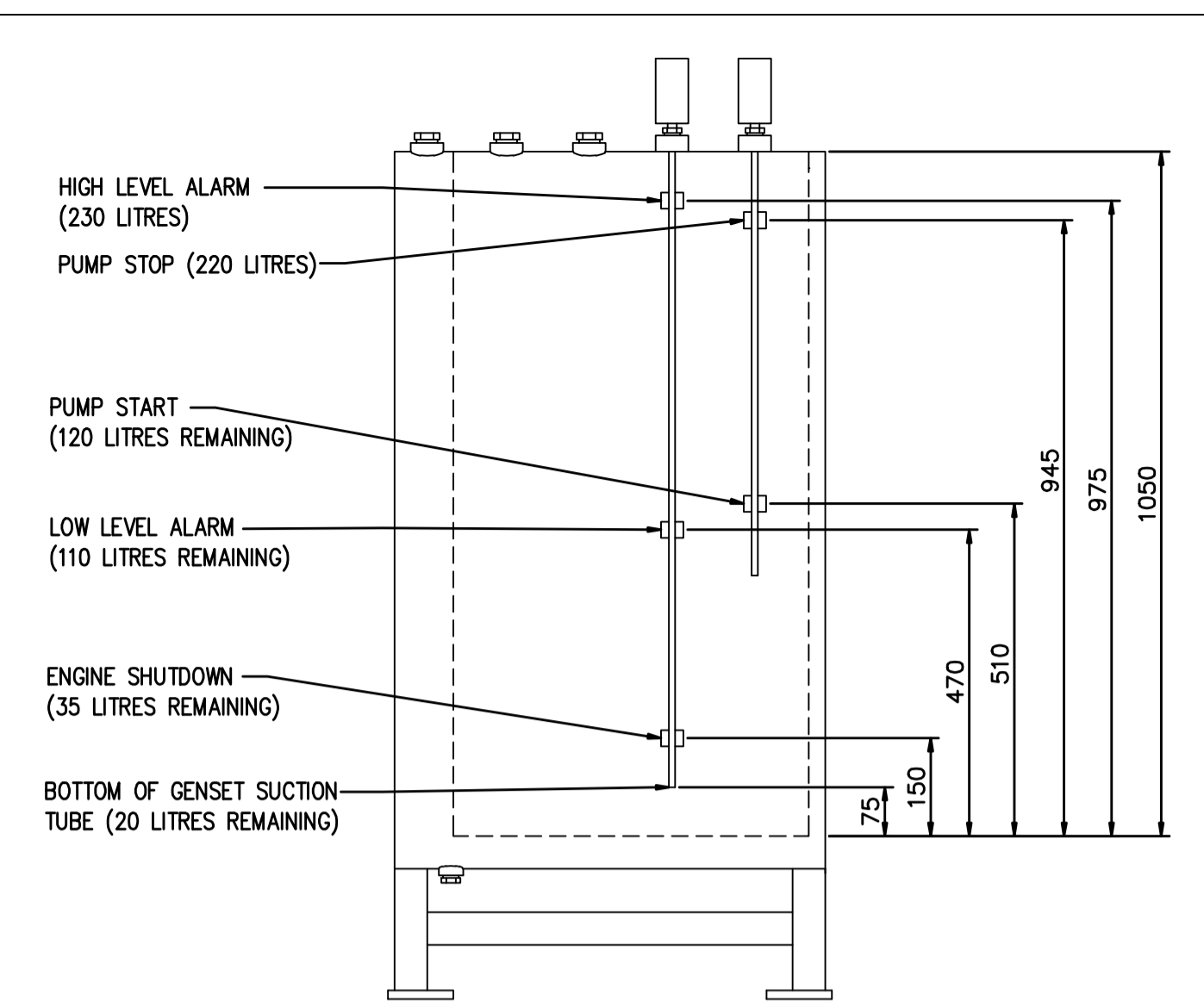


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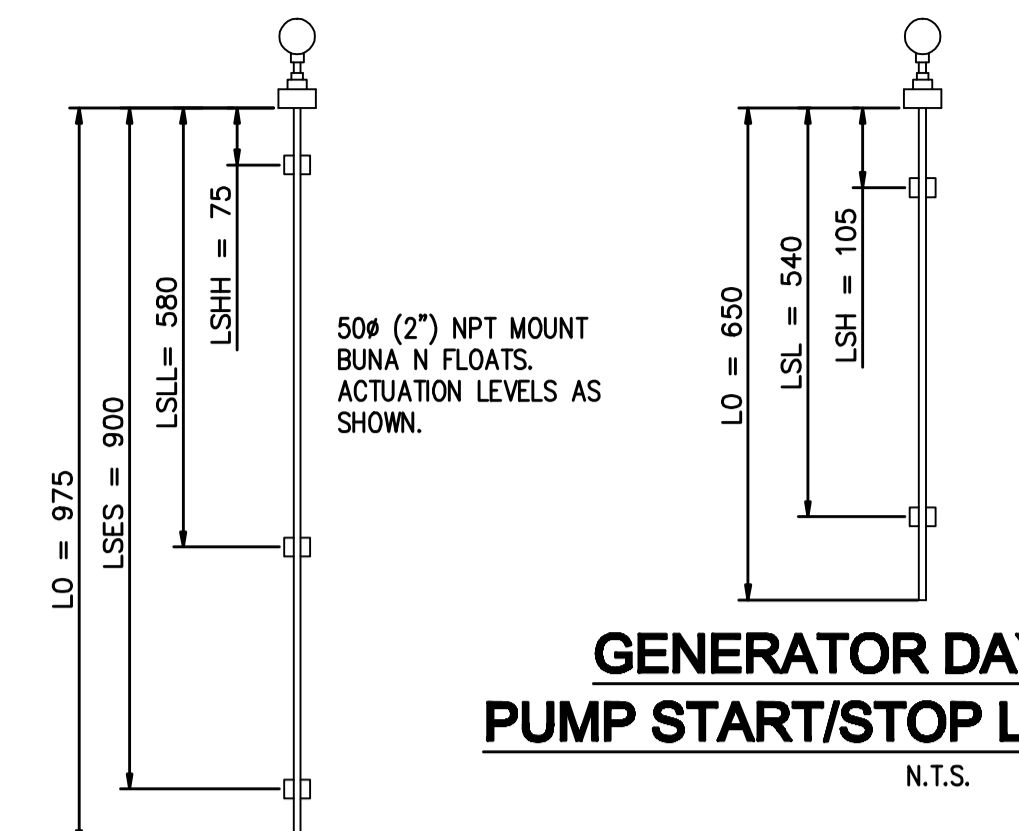
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PUMP CONTROL PANEL SCHEMATIC DIAGRAM



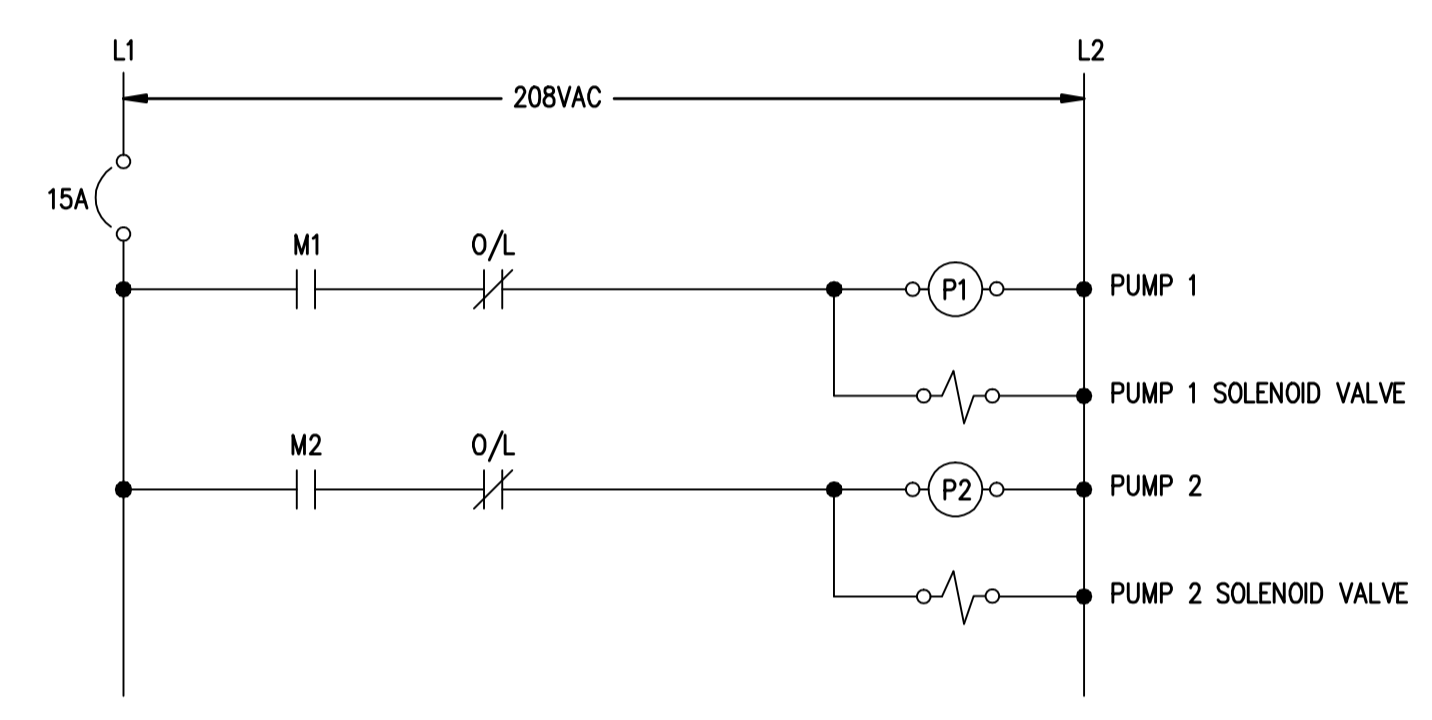
GENERATOR DAY TANK ALARM LEVEL SWITCH



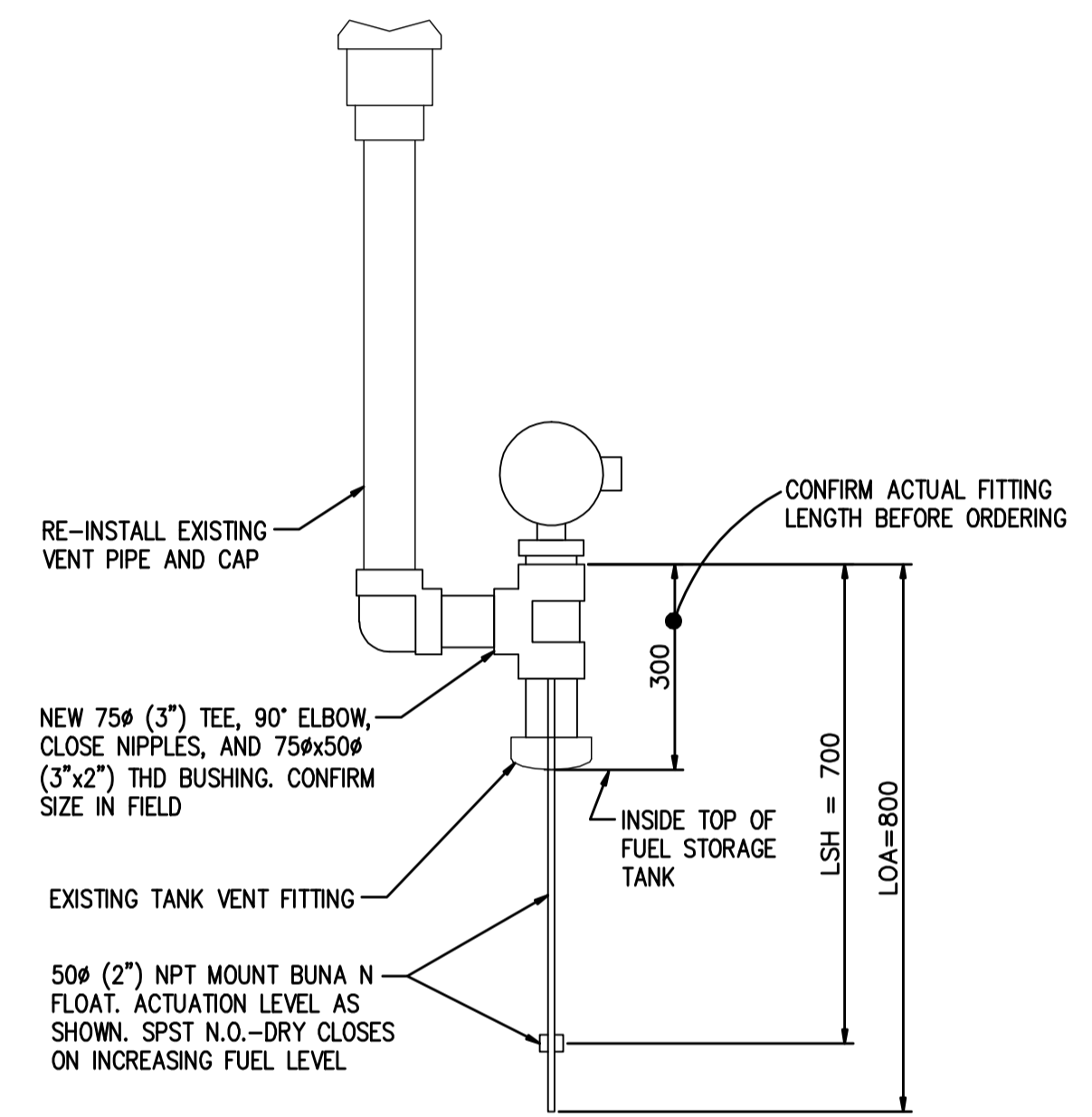
GENERATOR DAY TANK PUMP START/STOP LEVEL SWITCH

LEVEL SWITCH OPERATION	
LSH	N.O.
LSL	N.C.
LSHH	N.O.
LSLL	N.C.
LSES	N.C.

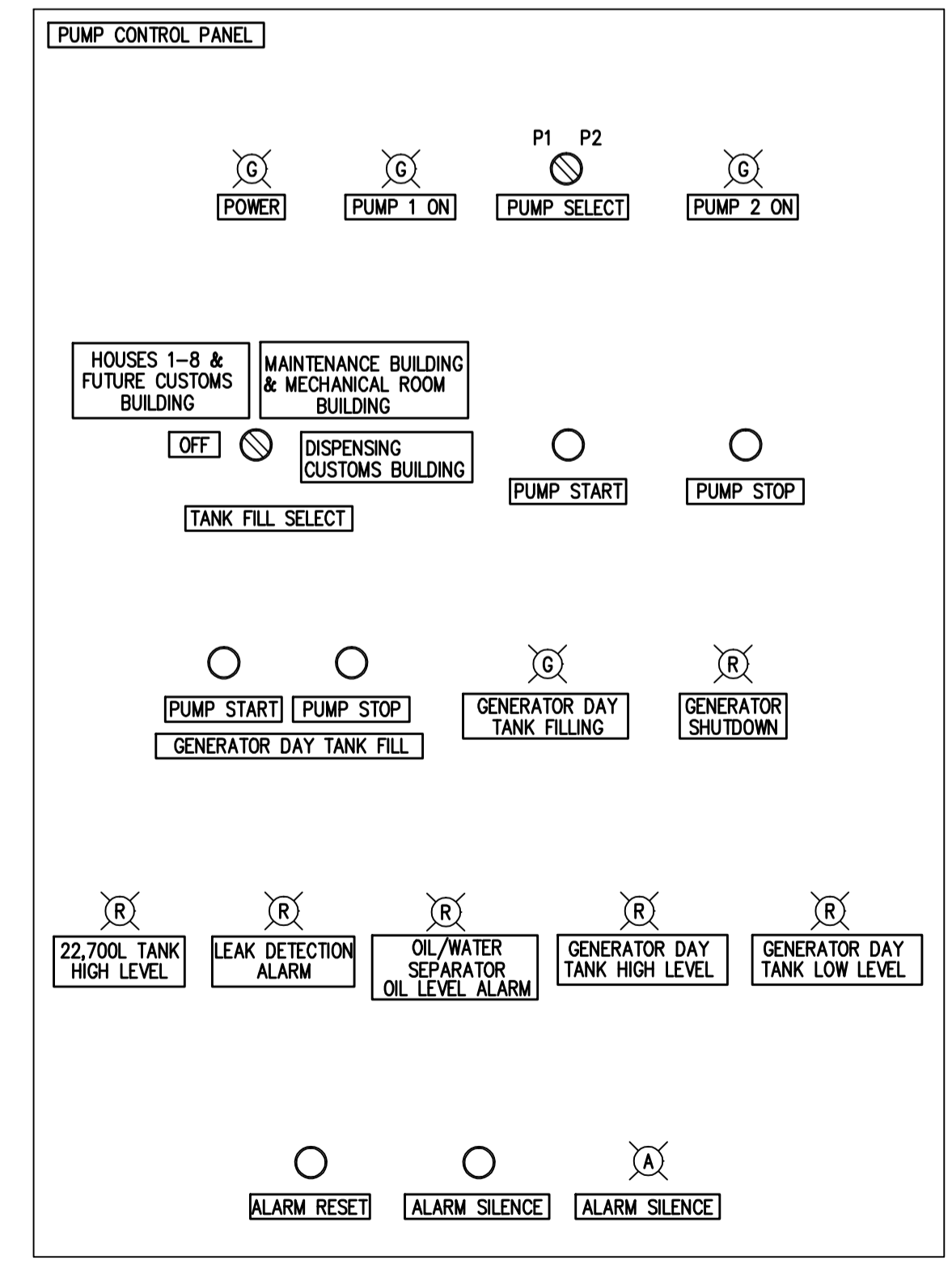
NOTE:
N.O./N.C. REFERS TO THE SWITCH BEING OPEN/CLOSED WHEN THE TANK IS EMPTY



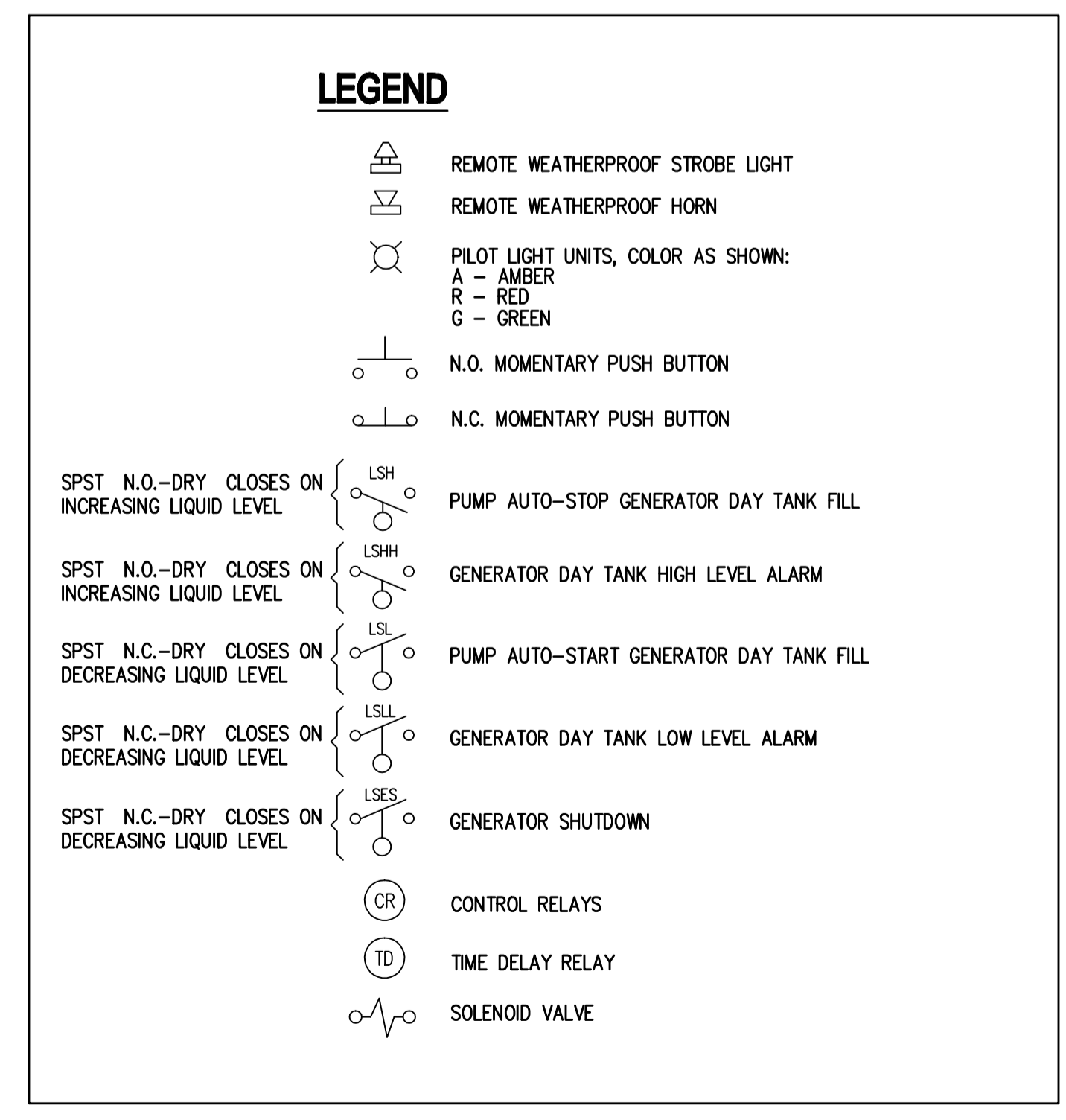
NEW PUMP POWER SUPPLY CIRCUIT SCHEMATIC DIAGRAM



VENT/90% HIGH LEVEL ALARM SWITCH FOR 22,700L DIESEL STORAGE TANK



NEW PUMP CONTROL PANEL LAYOUT



Revision/Revision	Description/Description	Date/Date
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A	ISSUED FOR 50% CLIENT REVIEW	14/12/12

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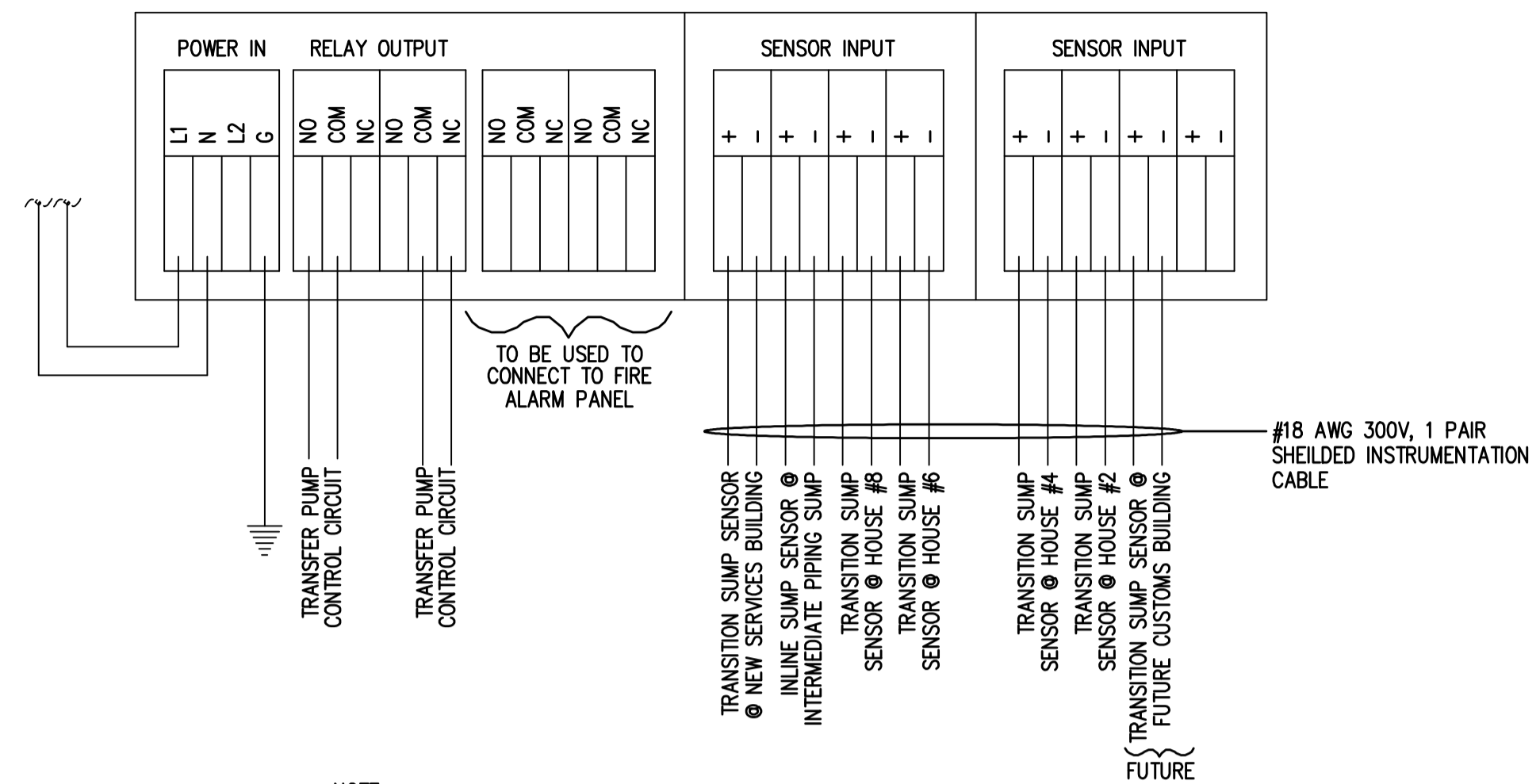
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PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

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Drawn by/Dessiné par
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Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSSC

FUEL SYSTEMS ELECTRICAL SCHEMATICS & DETAILS (SHEET 1)

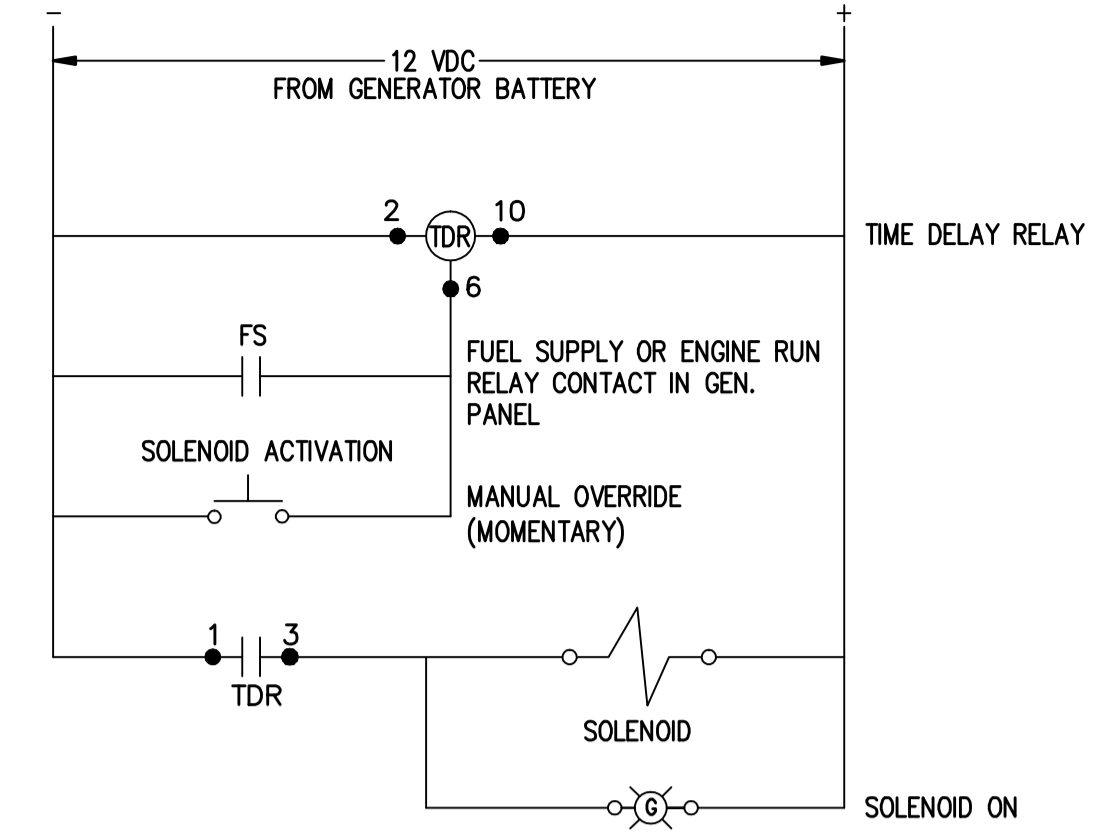
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.071363.001	F-007	0

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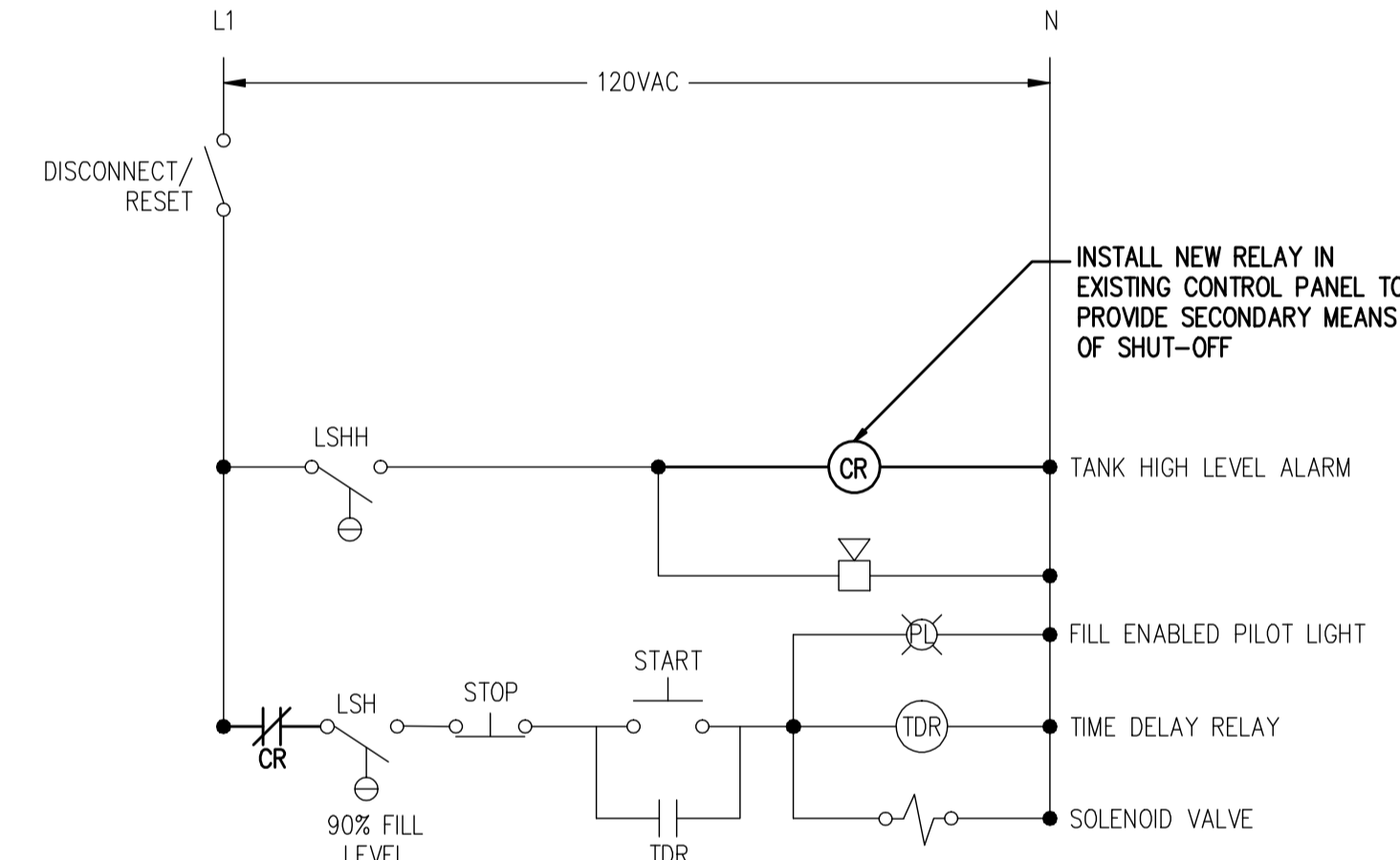
- NOTE:
1. NO SPLICES IN THE WIRE BETWEEN A SENSOR JUNCTION BOX AND THE LEAK DETECTION ALARM CONSOLE.

LEAK DETECTION ALARM CONSOLE SCHEMATIC
(LOCATED IN SITE SERVICES BUILDING)

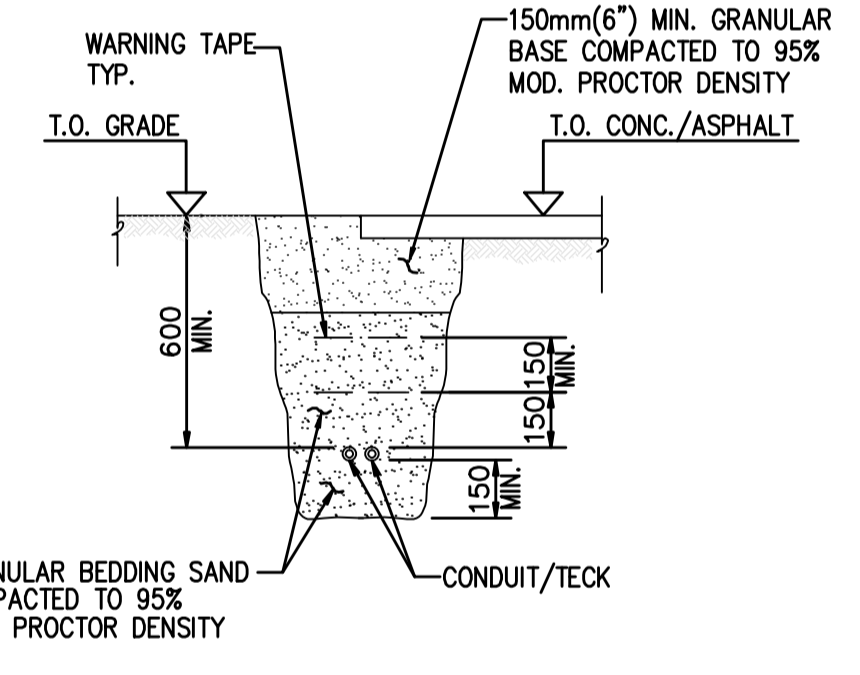


- IMPORTANT NOTES:
1. FUEL SUPPLY RELAY (OR ENGINE RUN) MUST OPERATE IMMEDIATELY WHEN ENGINE IS CRANKED FOR STARTING OR IF FUEL PUMP IS RUN TO PRIME THE SYSTEM.
 2. OFF-DELAY TIMER SET FOR TWO MINUTES TO HOLD SOLENOID OPEN AFTER ENGINE SHUT DOWN.
 3. CONTRACTOR TO CONFIRM GENERATOR DC CONTROL VOLTAGE PRIOR TO PURCHASE OF SOLENOID VALVE & TIMING RELAY.

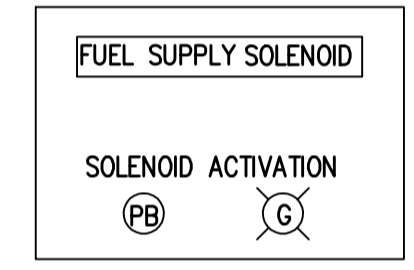
**GENERATOR SUPPLY
SOLENOID VALVE CONTROL SCHEMATIC**



BUILDING FUEL TANK CONTROL PANEL SCHEMATIC
(HOUSE #9/MECHANICAL ROOM, CUSTOMS OFFICE & MAINTANANCE BUILDING ONLY)

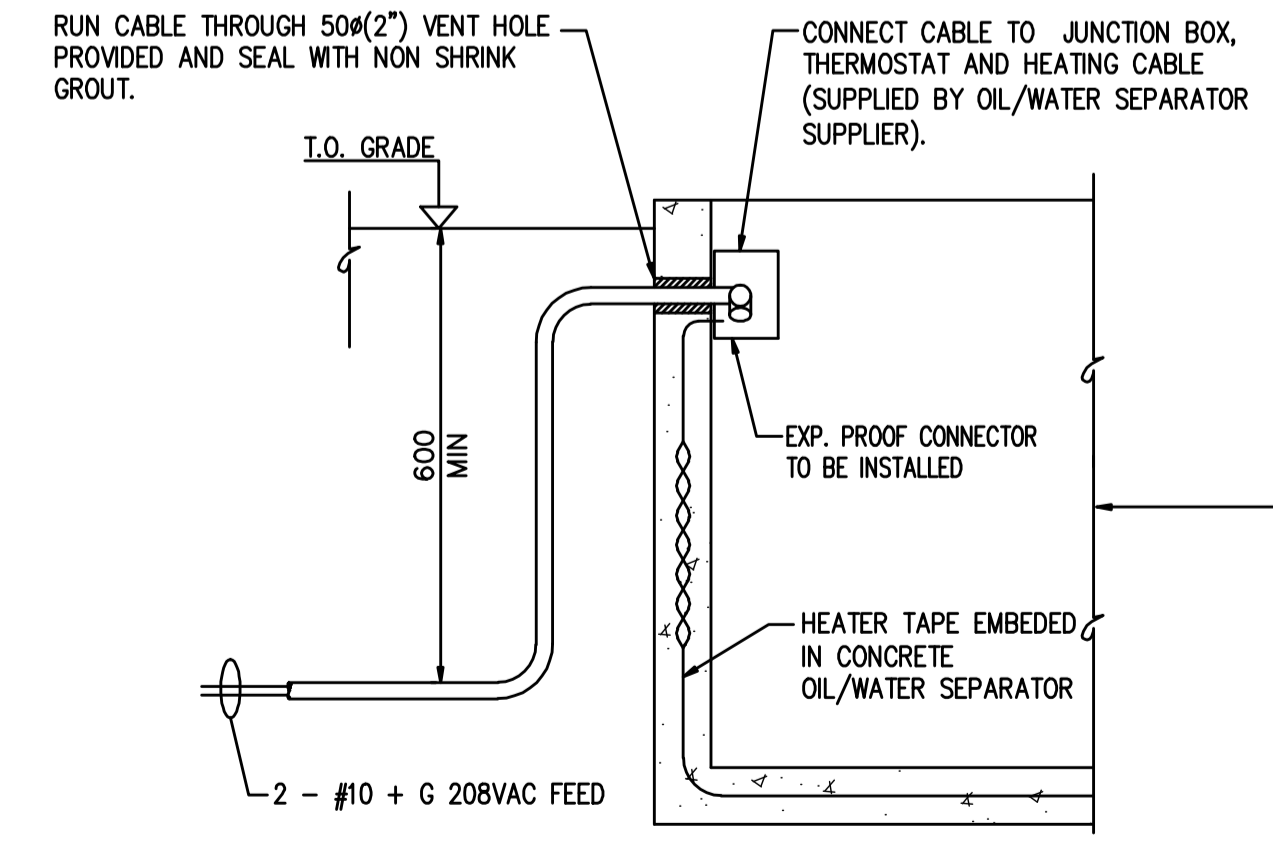


CONDUIT/CABLE TRENCH CROSS SECTION
N.T.S.

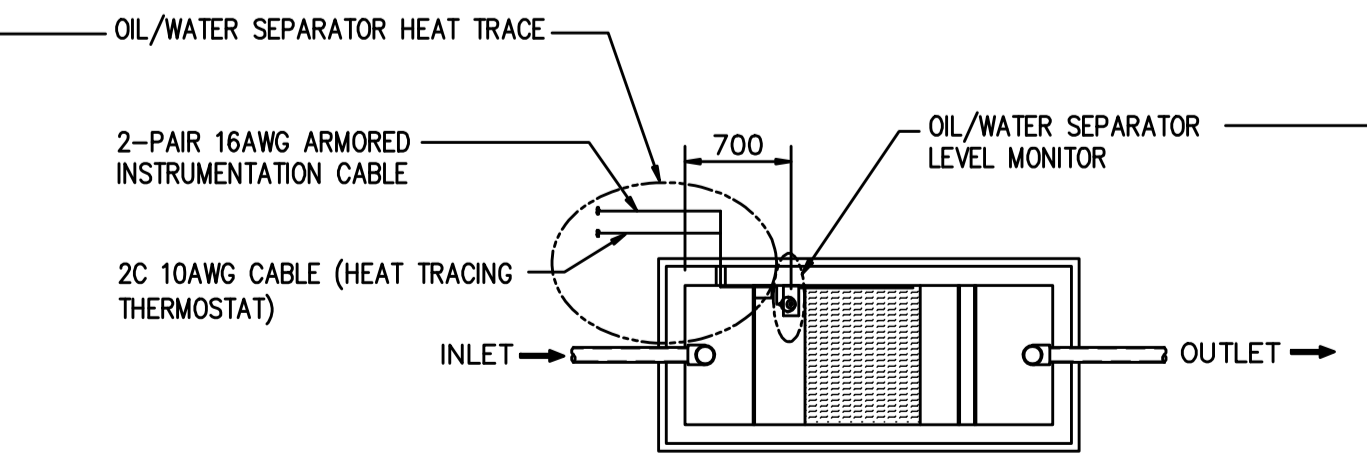


**GENERATOR FUEL SUPPLY SOLENOID
ACTIVATION PANEL/TIMER ENCLOSURE**

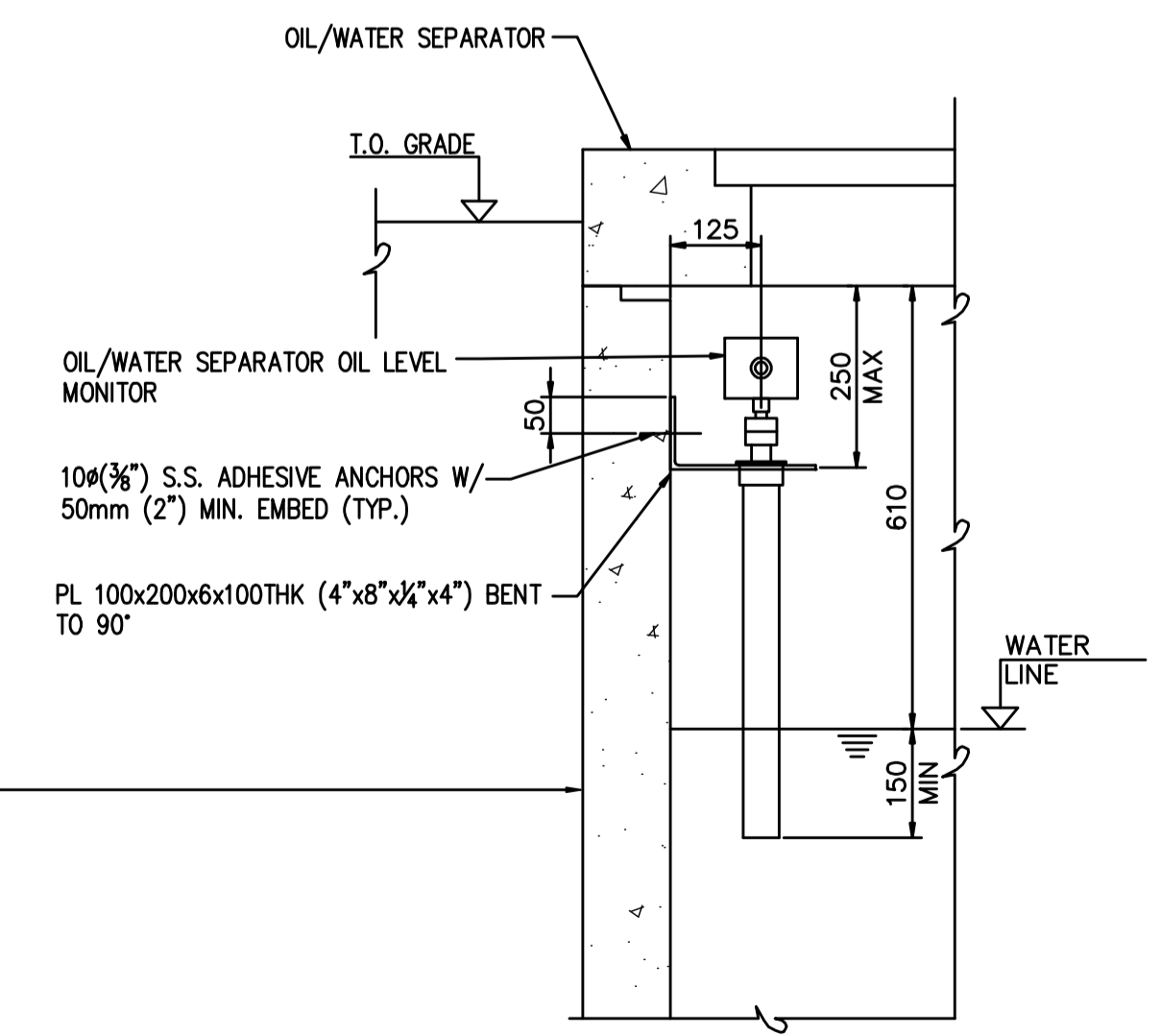
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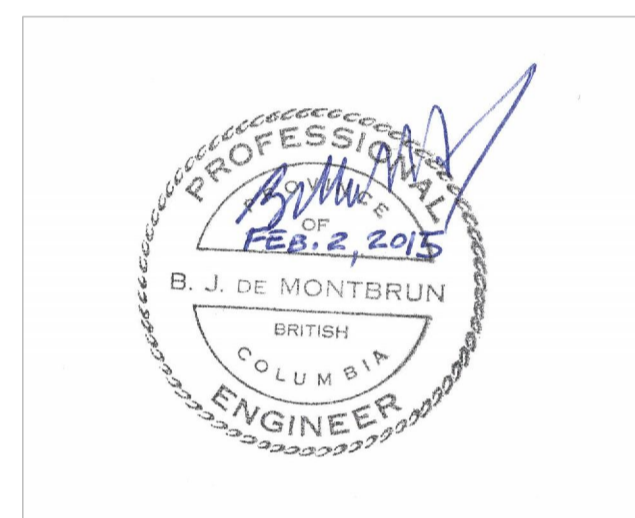
OIL/WATER SEPARATOR HEAT TRACE
SCALE: 1:10



OIL/WATER SEPARATOR PLAN
SCALE: 1:50



OIL/WATER SEPARATOR OIL LEVEL MONITOR
SCALE: 1:10



Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	15/02/02
B	ISSUED FOR 90% CLIENT REVIEW	15/01/14
A	ISSUED FOR 50% CLIENT REVIEW	14/12/12

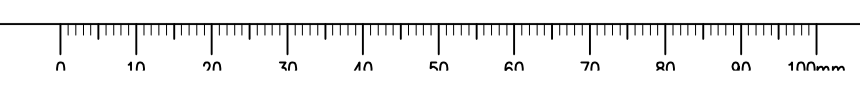
**CANADA BORDER
SERVICES AGENCY**

Project title/Titre du projet
**PLEASANT CAMP PORT OF ENTRY
TENDER A
SITE SERVICES & SITE SERVICES BUILDING**

Consultant Signature Only
Designed by/Concept par
B.deM
Drawn by/Dessiné par
CK
PWGSC Project Manager/Administrateur de Projets TPSSC
Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSSC

**FUEL SYSTEMS
ELECTRICAL SCHEMATICS & DETAILS
(SHEET 2)**

Project No./No. du projet R.071363.001	Sheet/Feuille F-008	Revision no./La Révision no. 0
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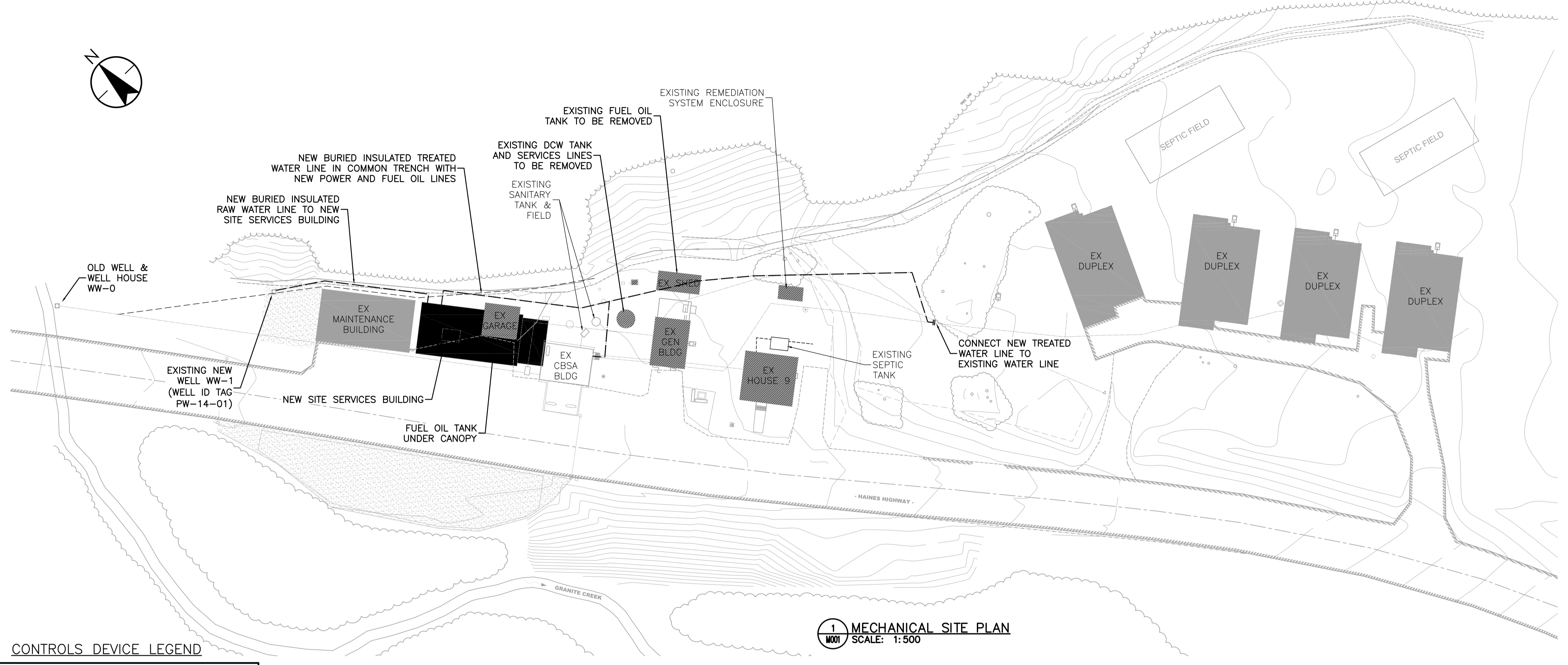




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1 MECHANICAL SITE PLAN
SCALE: 1:500

CONTROLS DEVICE LEGEND

UNIT #	EQUIPMENT
BDD	BACK DRAFT DAMPER
CS	CURRENT SENSOR, SIZED FOR SERVICE
DPS	DIFFERENTIAL PRESSURE SENSOR
ES	END SWITCH
FS	FLOW SWITCH
HS	HAND SWITCH
M	MOTORIZED OPERATOR
OA	OUTSIDE AIR TEMPERATURE SENSOR C/W SHIELD
PS	PRESSURE SWITCH
R	RELAY SIZED FOR SERVICE
T2	LINE VOLTAGE THERMOSTAT
T3	SURFACE MOUNTED AQUASTAT
T5	LINE VOLTAGE THERMOSTAT W/ GUARD, BUILDING LOW TEMPERATURE
T6	REVERSE ACTING THERMOSTAT
T7	AQUASTAT C/W TEMPERATURE WELL
TOL	THERMAL OVERLOAD BY ELECTRICAL
TX	TRANSFORMER
WD	WATER DETECTOR
WTA	WATER TREATMENT PLANT ALARM(S)

CONTROLS LEGEND

DAMPER	
FILTER	
PRESSURE SENSOR	
AIR FLOW SWITCH	
PROBE SENSOR	
AVERAGING SENSOR	
DIFFERENTIAL PRESSURE SENSOR	
DEVICE TAG	
POINT TAG	
MOTOR STARTER	
THERMAL OVERLOAD	
TRANSFORMER	
PUMP	
THREE WIRE	
TWO WIRE	
LIGHT	
FAN	
WIRING PROVIDED BY ELECTRICAL CONTRACTOR	
WIRING PROVIDED BY CONTROLS CONTRACTOR	

HVAC SYMBOLS

	RECTANGULAR DUCT
	EXTERIOR DUCT INSULATION
	RECTANGULAR DUCT (WITH ACOUSTIC INSULATION)
	ROUND DUCT
	SQUARE ELBOW TURN (SUPPLY UP/DOWN)
	SQUARE ELBOW TURN (RETURN UP/DOWN)
	SQUARE ELBOW TURN (EXHAUST UP/DOWN)
	SQUARE ELBOW TURN (INTAKE UP/DOWN)
	ELBOW, ROUND, SMOOTH RADIUS (UP/DOWN)
	TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH
	TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH, SQUARE TO ROUND
	TEE, 45 DEG., ROUND MAIN AND BRANCH
	ELBOW, RECTANGULAR, SMOOTH RADIUS (1.0 R/W DEFAULT)
	ELBOW, RECTANGULAR, MITERED WITH TURNING VANES
	ELBOWS, 90 DEG., RECTANGULAR TEE
	TRANSITION, RECTANGULAR, PYRAMIDAL (30° CONTRACTUAL ANGLE DEFAULT)
	SINGLE-LINE DUCT INCLINE
	SINGLE-LINE DUCT TAKEOFF
	DUCT CAP
	DUCT BREAK
	SINGLE-LINE SUPPLY OR RETURN DUCT
	SINGLE-LINE EXHAUST DUCT
	THERMOSTAT
	HUMIDISTAT
	WALL MOUNTED GRILLE/REGISTER
	CEILING DIFFUSER 600x600/300x300
	AIR FLOW ARROWS
	CEILING FAN
	AIR OUTLET TAG (REFER TO SCHEDULE)
	DOOR GRILLE TAG (REFER TO SCHEDULE)
	RADIATION HEATING TAG (REFER TO SCHEDULE)
	QUANTITY TYPE SIZE (mm) VOLUME (L/s)
	QUANTITY TYPE LENGTH (mm) CAPACITY (kW)

PIPING IDENTIFICATION AND SYMBOLS

	DRINKING WATER SUPPLY
	DRINKING WATER RETURN
	SANITARY DRAIN (ABOVE GRADE OR FLOOR)
	SANITARY DRAIN (BELOW GRADE OR FLOOR)
	VENT
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRC.
	TEMPERED WATER
	FIRE EXTINGUISHER
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	HOSE BIBB
	STANDARD CLEAN-OUT IN LINE END OF RUN
	STANDARD CLEAN-OUT THROUGH FLOOR END OF RUN
	STANDARD CLEAN-OUT THROUGH FLOOR IN LINE
	PIPING SLOPE
	FIXTURE TRAP
	BUILDING TRAP
	SANITARY VENT
	PLUMBING FIXTURE TAG (REFER TO SCHEDULE)
	PLUMBING FIXTURES
	FIRE EXTINGUISHER
	PIPE CAP
	PIPE BREAK
	FLOW ARROW
	PIPING ELBOW DOWN
	PIPING ELBOW UP
	PIPING TEE UP
	PIPING TEE DOWN
	PIPING TEE
	GATE VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	SWING GATE CHECK VALVE
	BALL VALVE
	BALANCING VALVE
	BUTTERFLY VALVE
	PETES PLUG
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	Y STRAINER
	THERMOMETER WELL
	PRESSURE GAUGE AND COCK
	UNION CONNECTION
	FLANGED CONNECTION
	SIGHT FLOW GLASS
	FLEXIBLE CONNECTOR
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER
	BACKFLOW PREVENTER, DOUBLE CHECK TYPE
	BACKFLOW PREVENTER, REDUCED PRESSURE ZONE (RPZ) TYPE
	METER
	PUMP (REFER TO SCHEDULE)
	RELIEF (R) OR SAFETY (S) VALVE
	ANGLE GATE VALVE (WITHOUT ACTUATOR)
	THREE WAY VALVE (WITHOUT ACTUATOR)
	VACUUM BREAKER

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	15.02.02

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet
PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

Consultant Signature Only

Designed by/Concept par
B.Zrum / S.Birrell

Drawn by/Dessiné par
B.Zrum

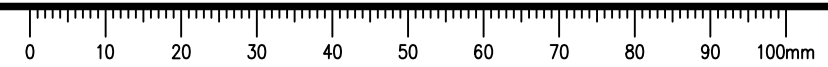
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Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC

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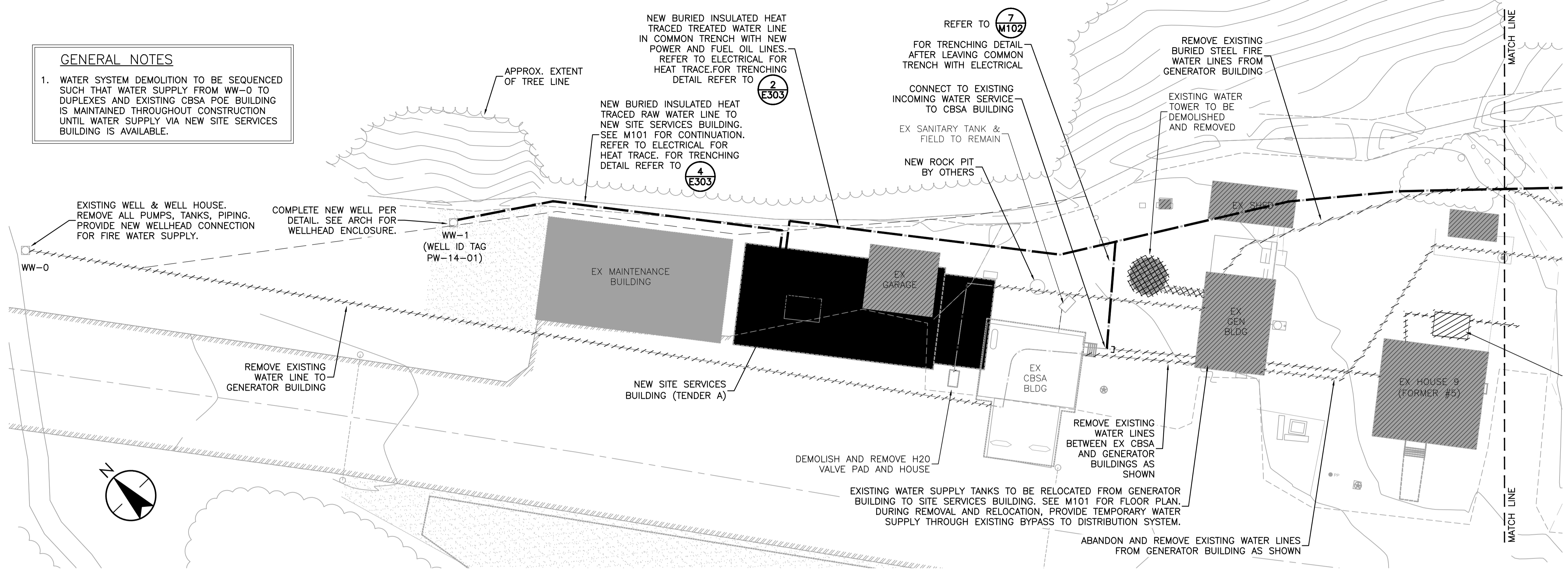
MECHANICAL SITE PLAN & LEGENDS

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
R.071363.001	M001	0



GENERAL NOTES

1. WATER SYSTEM DEMOLITION TO BE SEQUENCED SUCH THAT WATER SUPPLY FROM WW-0 TO DUPLEXES AND EXISTING CBSA POE BUILDING IS MAINTAINED THROUGHOUT CONSTRUCTION UNTIL WATER SUPPLY VIA NEW SITE SERVICES BUILDING IS AVAILABLE.



1 MECHANICAL SITE PLAN - NORTH
M002 SCALE: 1:250



1 MECHANICAL SITE PLAN - SOUTH
M002 SCALE: 1:250



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40793
149901928

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PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

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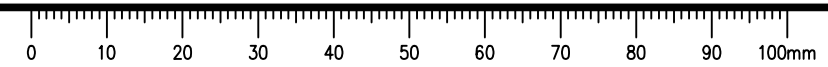
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Drawing title/Titre du dessin
MECHANICAL DETAILED DEMO & NEW SITE PLAN

Project No./No. du projet R.071363.001	Sheet/Feuille M002	Revision no./La Révision no. 0
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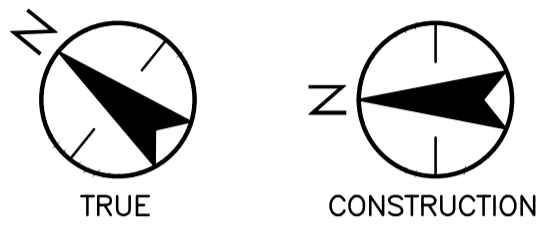


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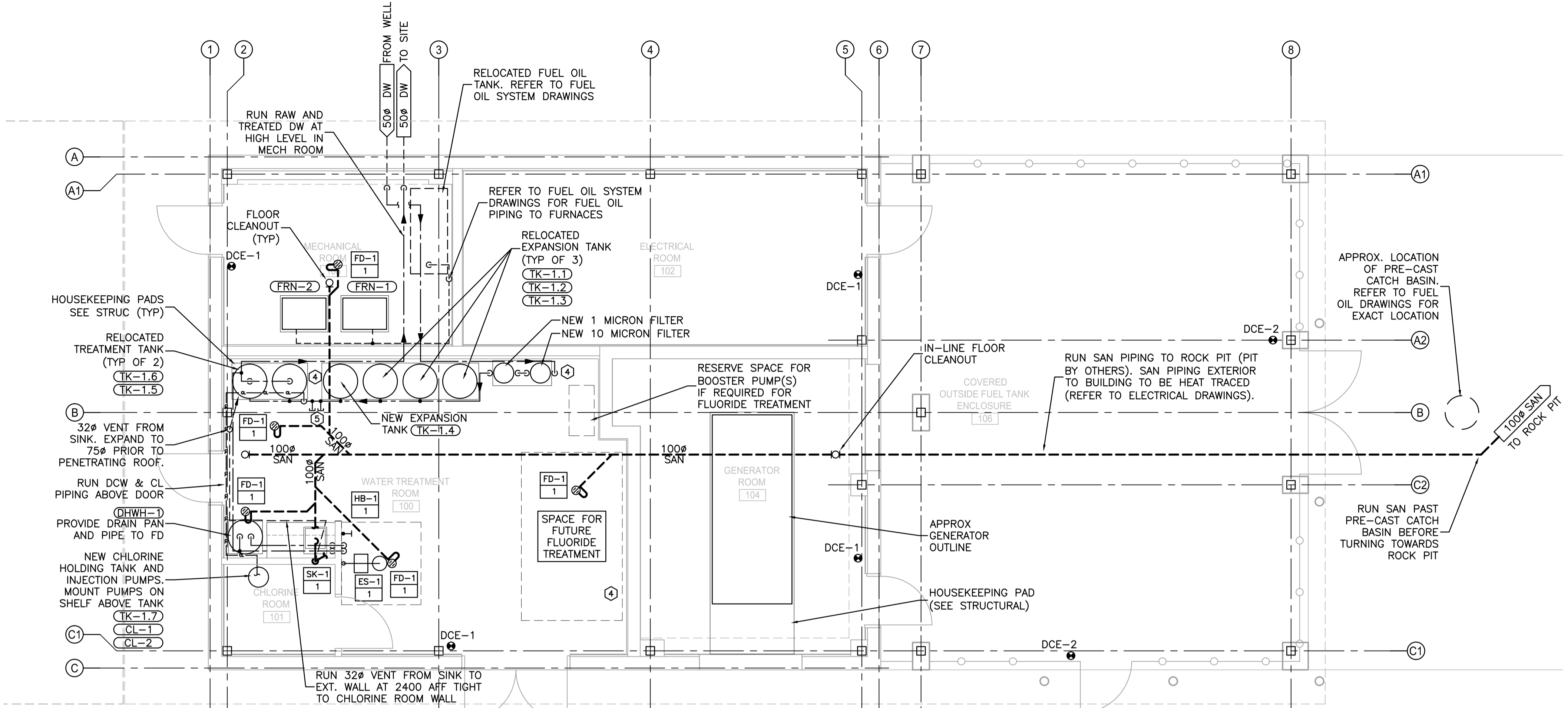
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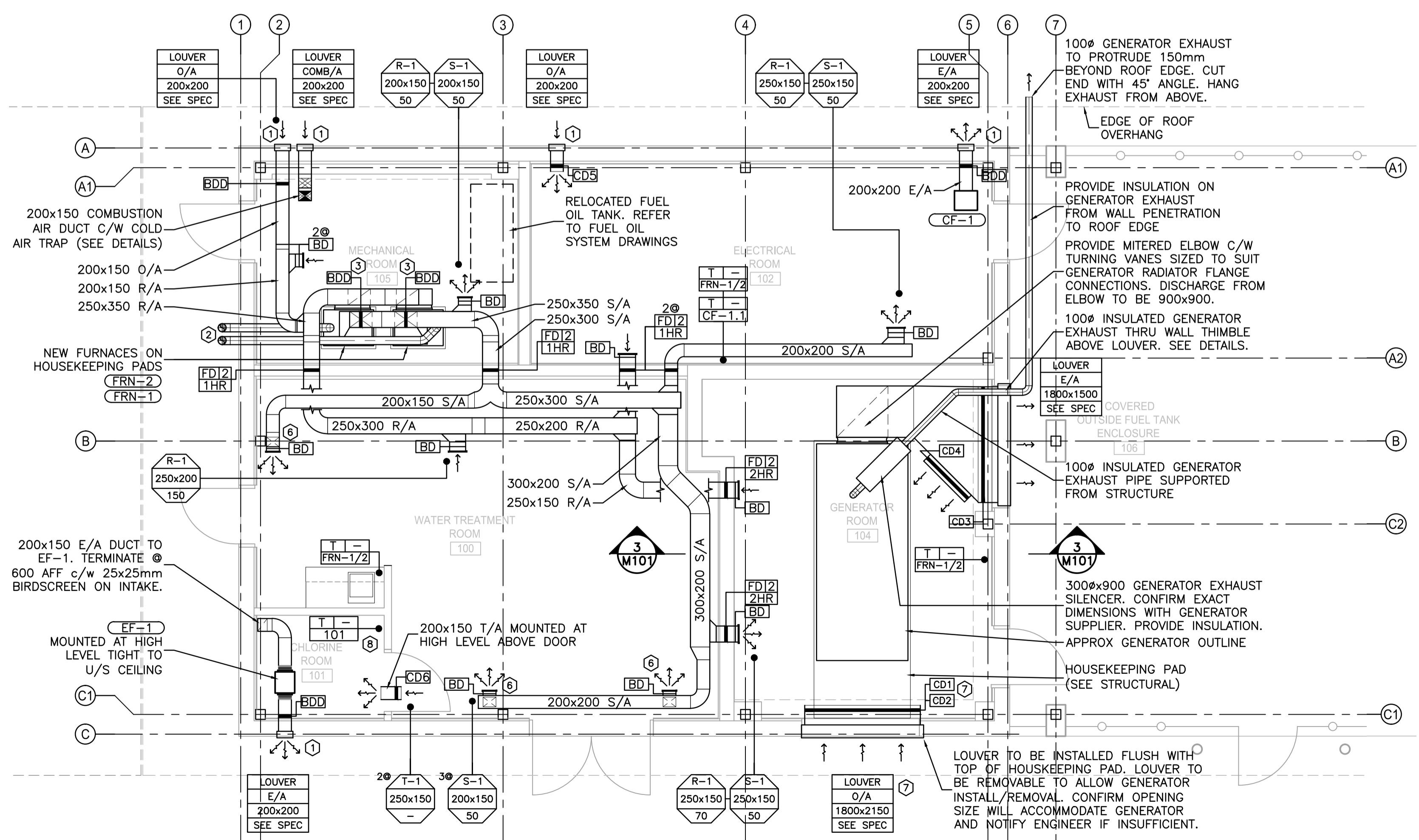


GENERAL NOTES
1. RUN ALL DUCTING FOR FURNACE TIGHT TO U/S CEILING AND TIGHT TO WALLS WHERE POSSIBLE.

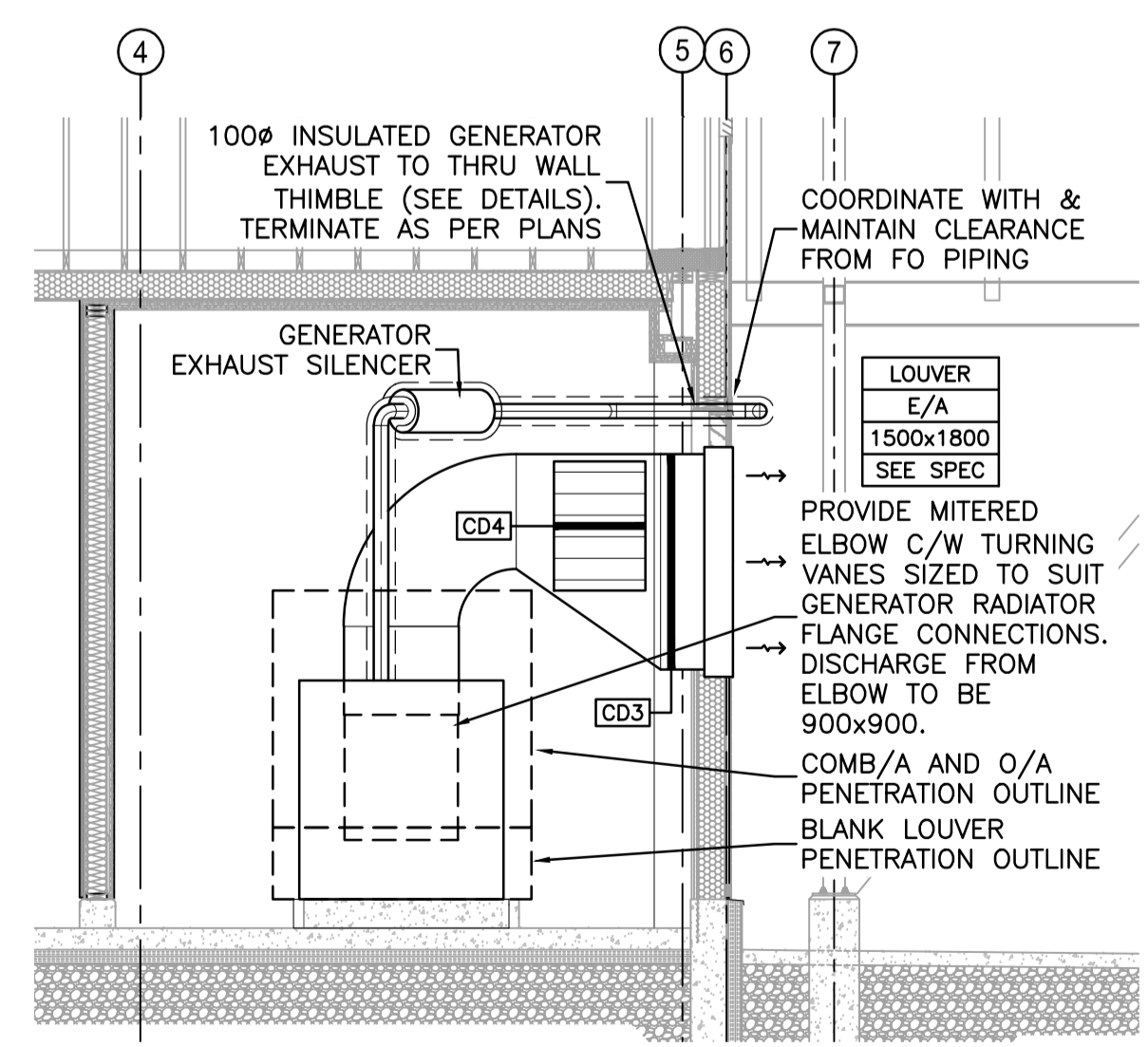
- KEYNOTES**
- 1. INSTALL LOUVER SUCH THAT DUCT TIGHT AS POSSIBLE TO U/S OF INTERIOR CEILING.
 - 2. 125Ø CHIMNEY FROM FURNACE. PROVIDE TEE W/ CLEANOUT AT BASE OF CHIMNEY. OFFSET CHIMNEY EXTERIOR TO BUILDING SUCH THAT CHIMNEY PENETRATES ADJACENT TO ROOF PEAK (ALONG GRIDLINE B). SEE DETAILS ON M501.
 - 3. INSTALL BDD HORIZONTALLY AFTER TRANSITION TO 250x350 ON VERTICAL RISE FROM FURNACE S/A DISCHARGE.
 - 4. WATER DETECTOR LOCATION. PROVIDE REQUIRED CONTROL PANEL(S) FOR OPERATION.
 - 5. LOCATION OF CAPPED CONNECTIONS FOR FUTURE WATER TREATMENT PLANT. REFER TO SCHEMATIC 6/M102 FOR DETAILS.
 - 6. S/A GRILLE DISCHARGE TO DROP TO 100mm AFF. RUN DROP TIGHT TO WALL.
 - 7. INSTALL CD1 (SINGLE BLADE) AT TOP OF LOUVER. INSTALL CD2 BELOW CD1. INSTALL BLANKED OFF SECTION C/W 100mm THERMAL INSULATION FROM UNDERSIDE CD2 TO BOTTOM OF LOUVER (APPROX. 1800x500).
 - 8. REFER TO ELECTRICAL FOR ROOM BASEBOARD.



1 SITE SERVICES BUILDING PLUMBING & FIRE PROTECTION PLAN
M101 SCALE: 1:50



2 SITE SERVICES BUILDING HVAC PLAN
M101 SCALE: 1:50



3 GENERATOR ROOM SECTION
M101 SCALE: 1:50

Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	15.02.02

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

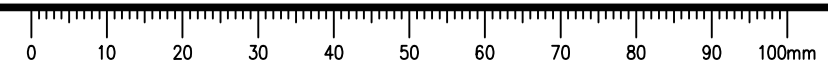
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Designed by/Concept par: B.Zum / S.Birrell
Drawn by/Dessiné par: B.Zum
PWSC: Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC

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R.071363.001	M101	0
OF		





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PROFESSIONAL
40793
B. Zrum
149901928

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1	REVISION	DESCRIPTION/DESCRIPTION
Client/client		

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

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Drawn by/Dessiné par
B.Zrum

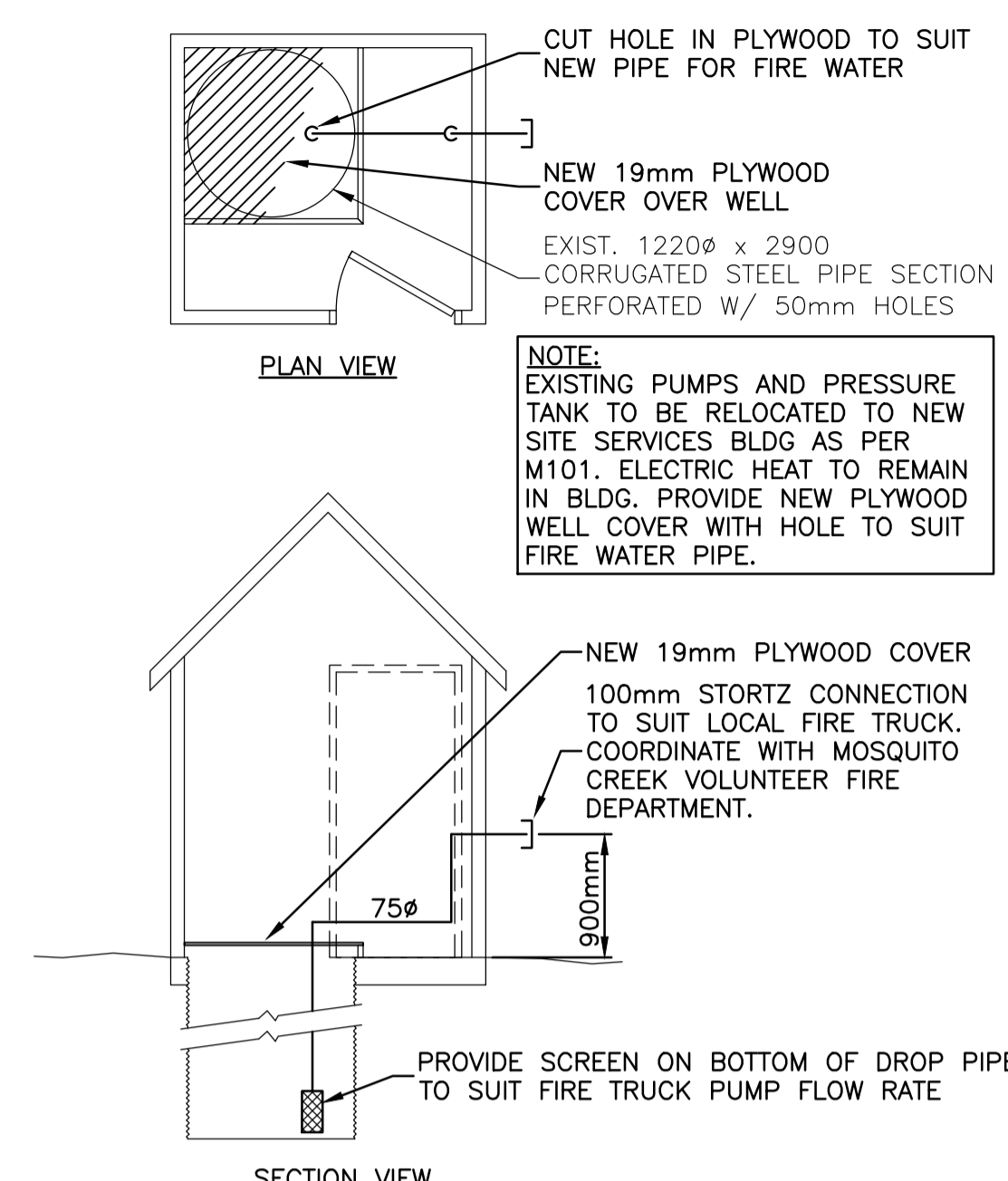
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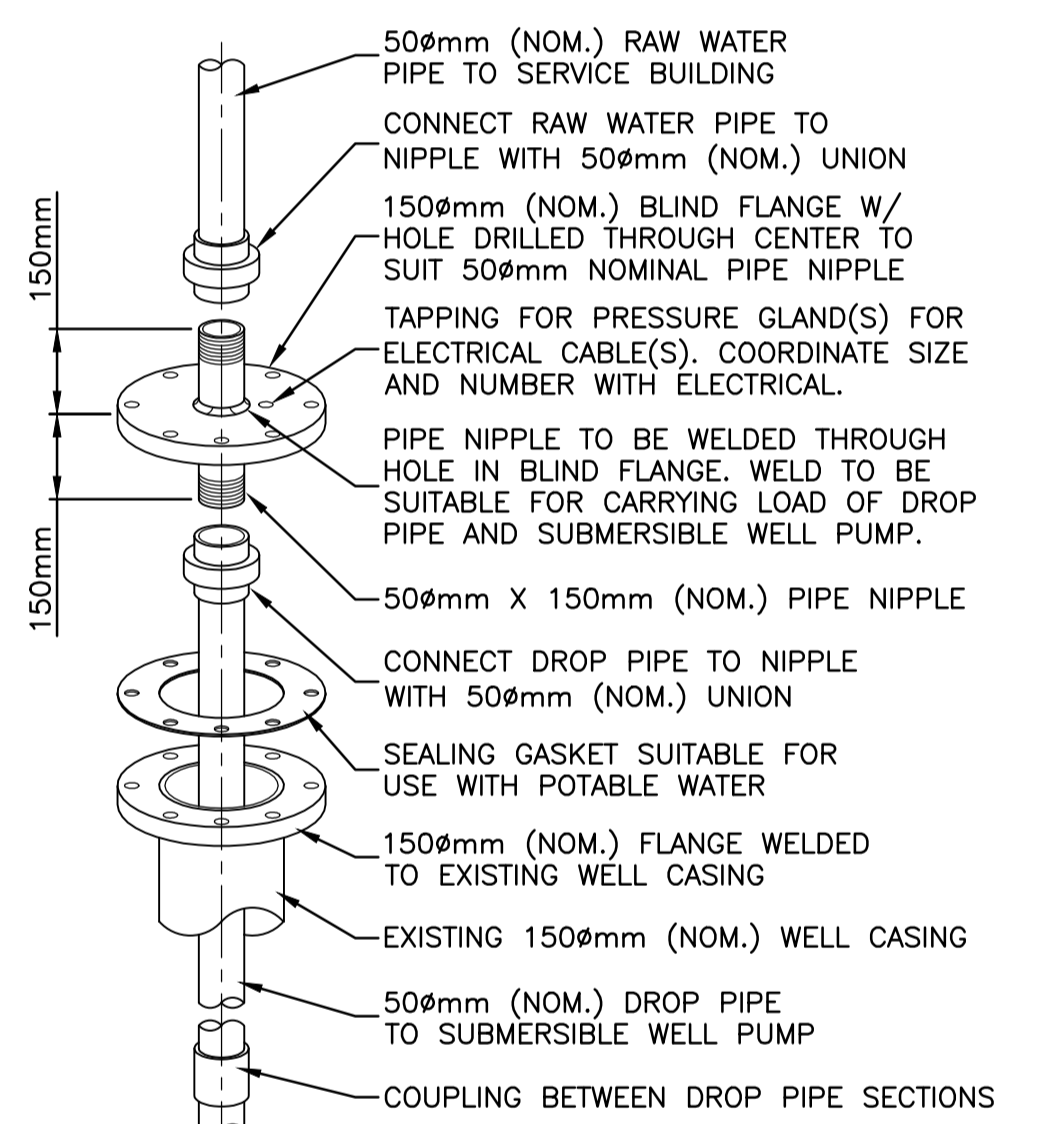
Drawing title/Titre du dessin

WELL PLANS & DETAILS

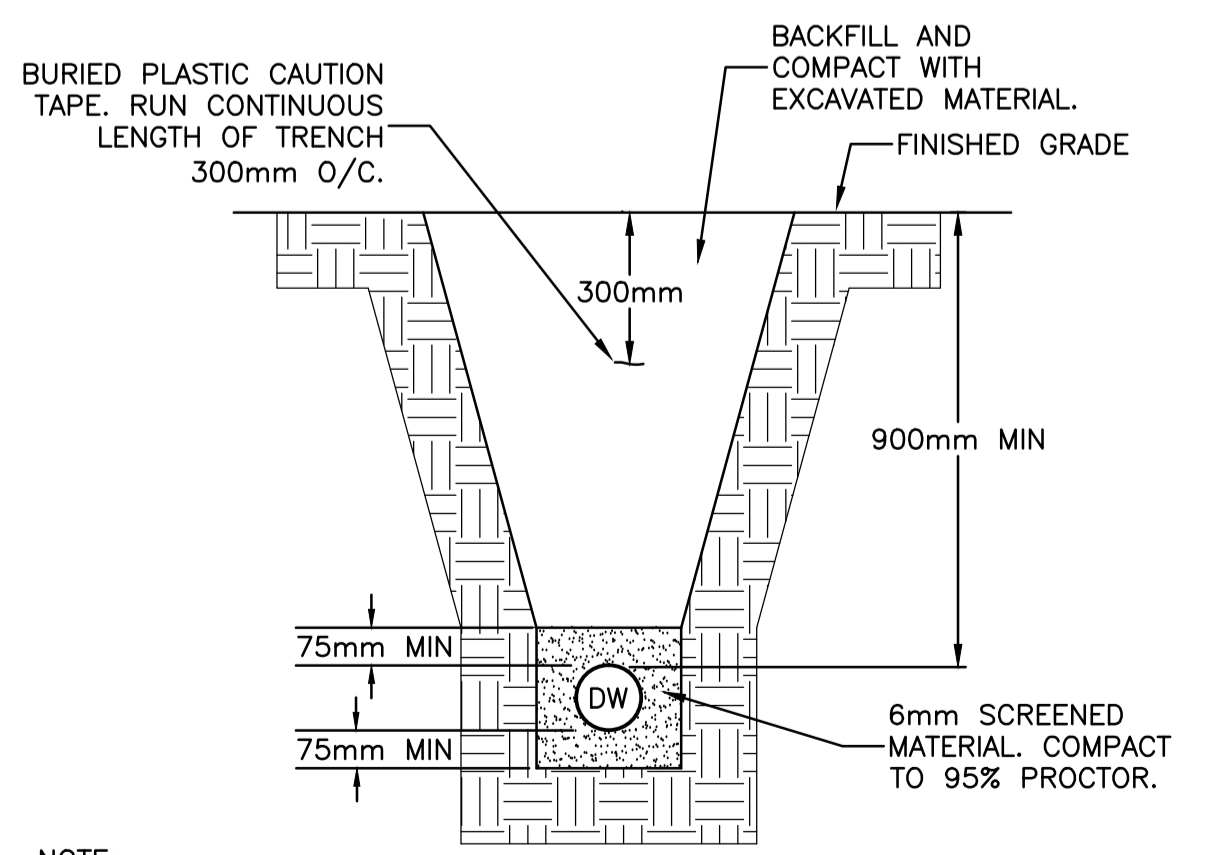
Project No./No. du projet R.071363.001	Sheet/Feuille M102	Revision no./ La Révision no. 0
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5 EXISTING WELL (WW-0) MODIFICATION FOR FIRE WATER USE
SCALE: NTS



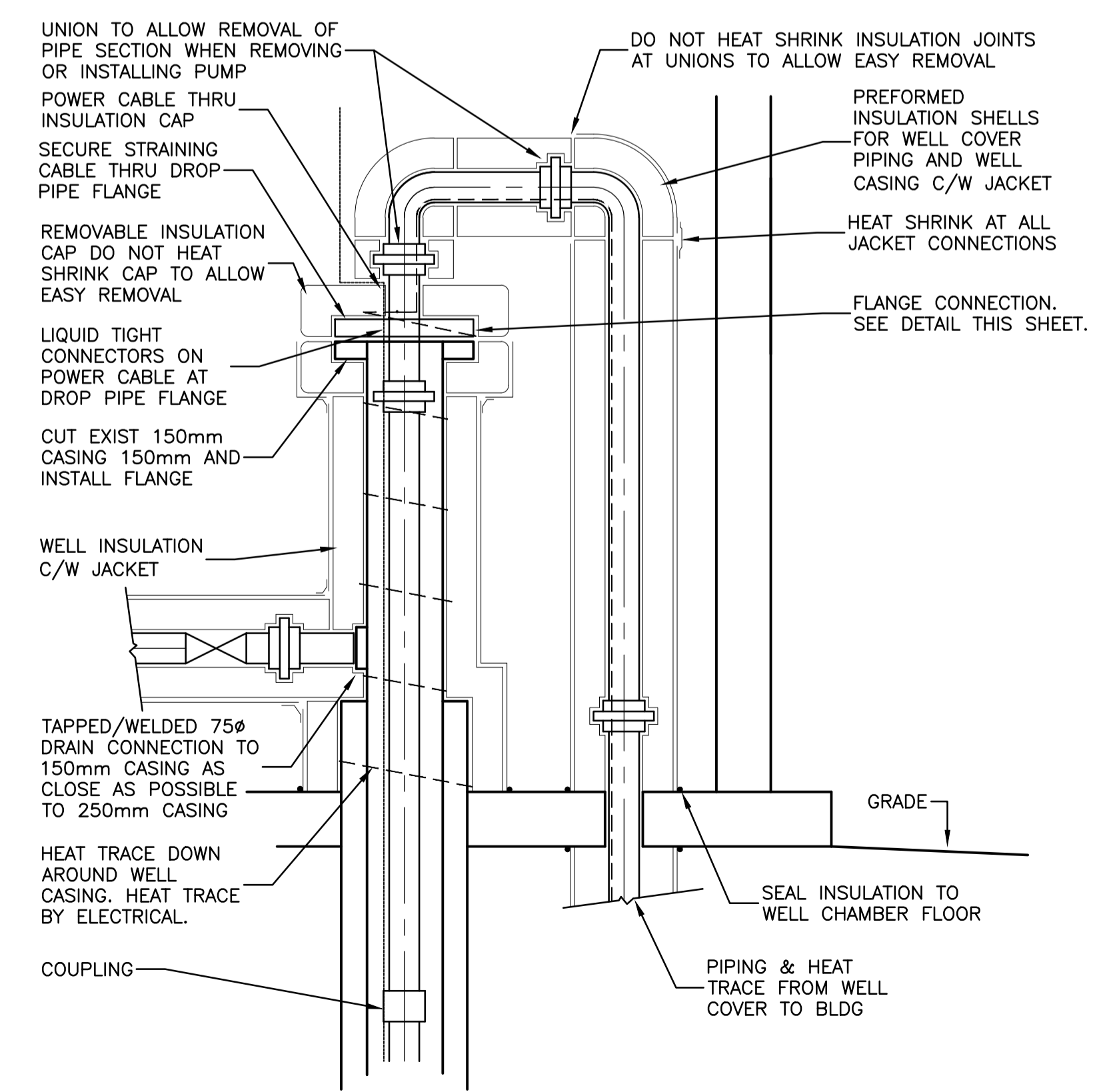
3 WELL DROP PIPE FLANGE CONNECTION DETAIL
SCALE: NTS



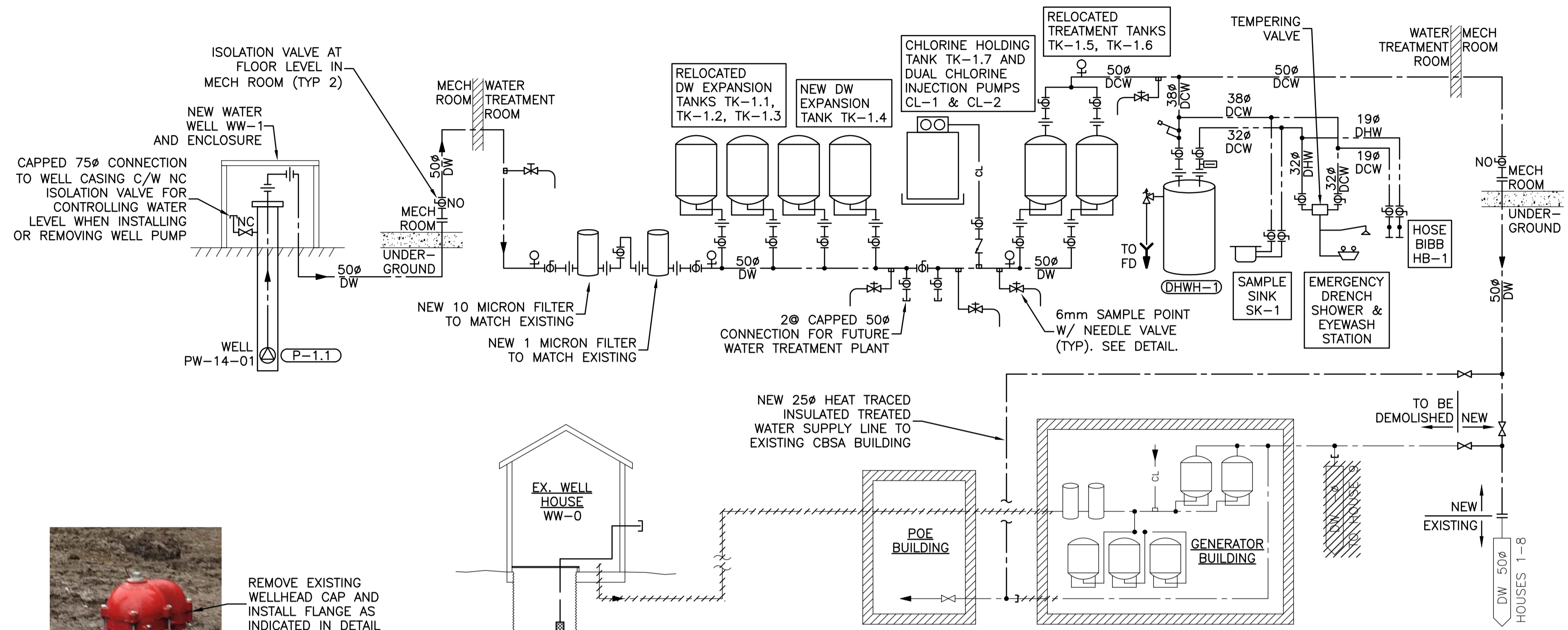
7 BURIED WATER PIPE DETAIL
SCALE: NTS



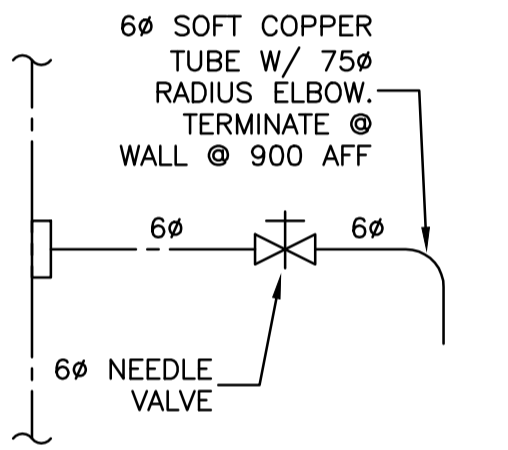
4 EXIST. WELL HEAD (WW-1) MODIFICATION DETAIL
SCALE: NTS



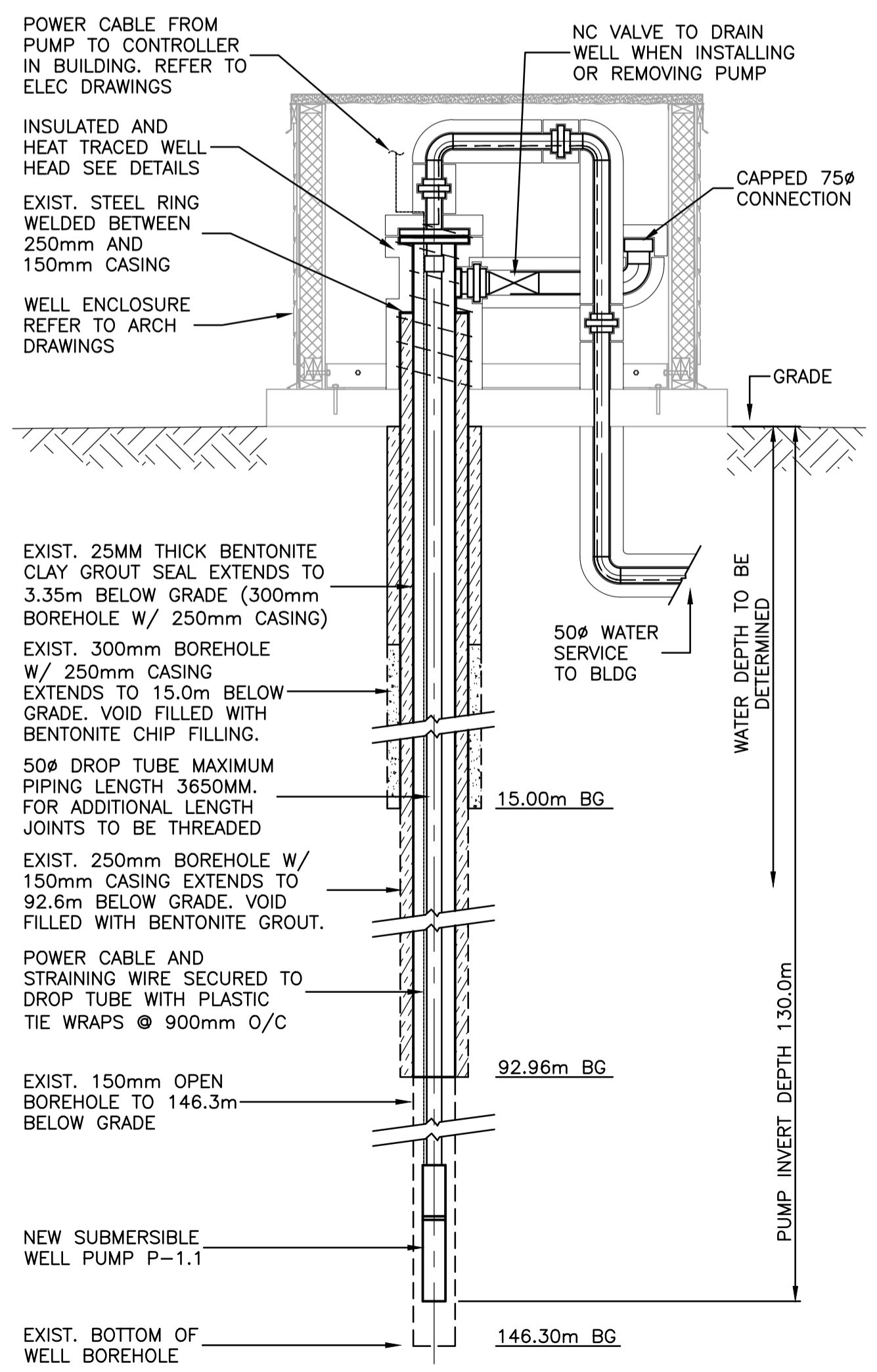
2 WELL HEAD DETAIL
SCALE: NTS



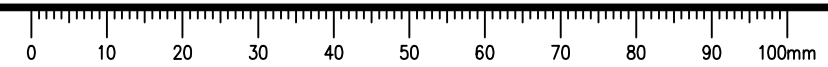
6 WATER SERVICE SCHEMATIC
SCALE: NTS

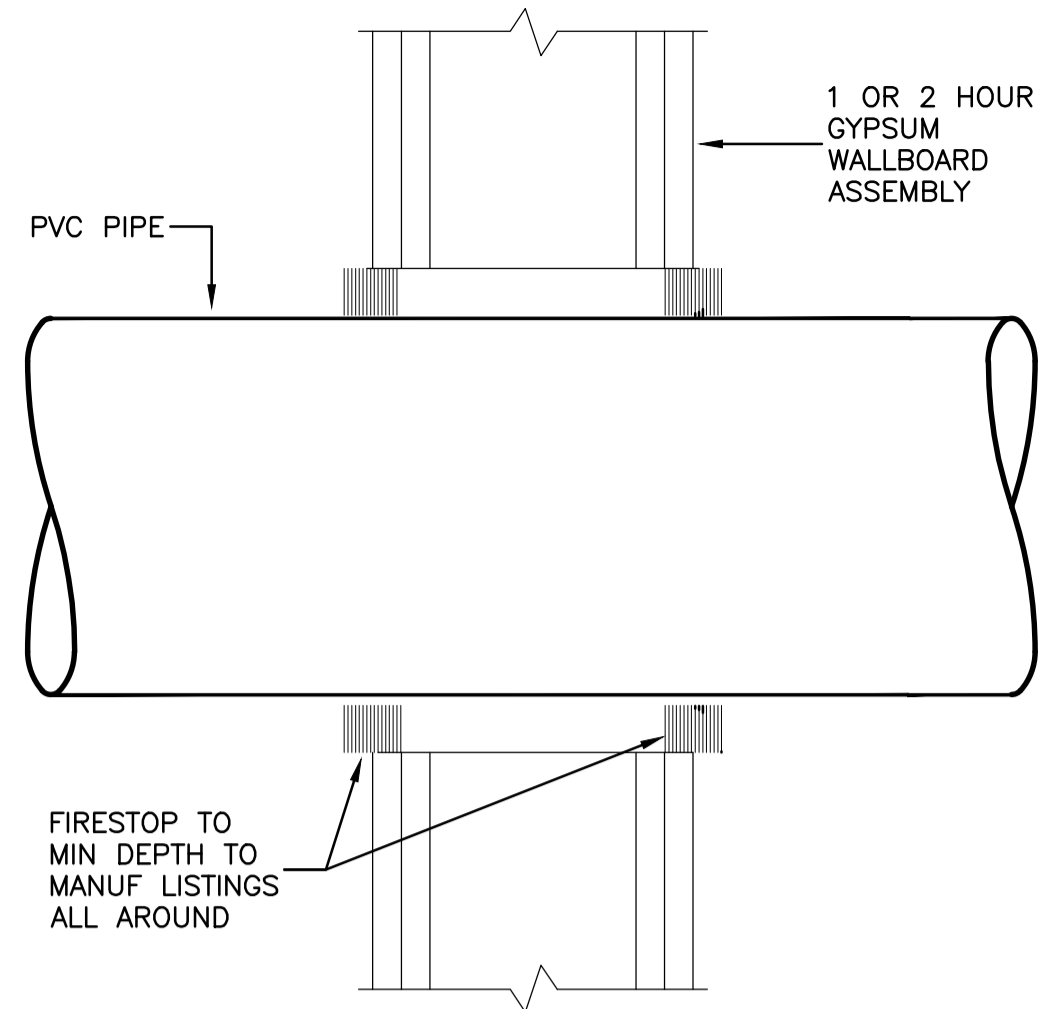


8 NEEDLE VALVE DETAIL
SCALE: NTS

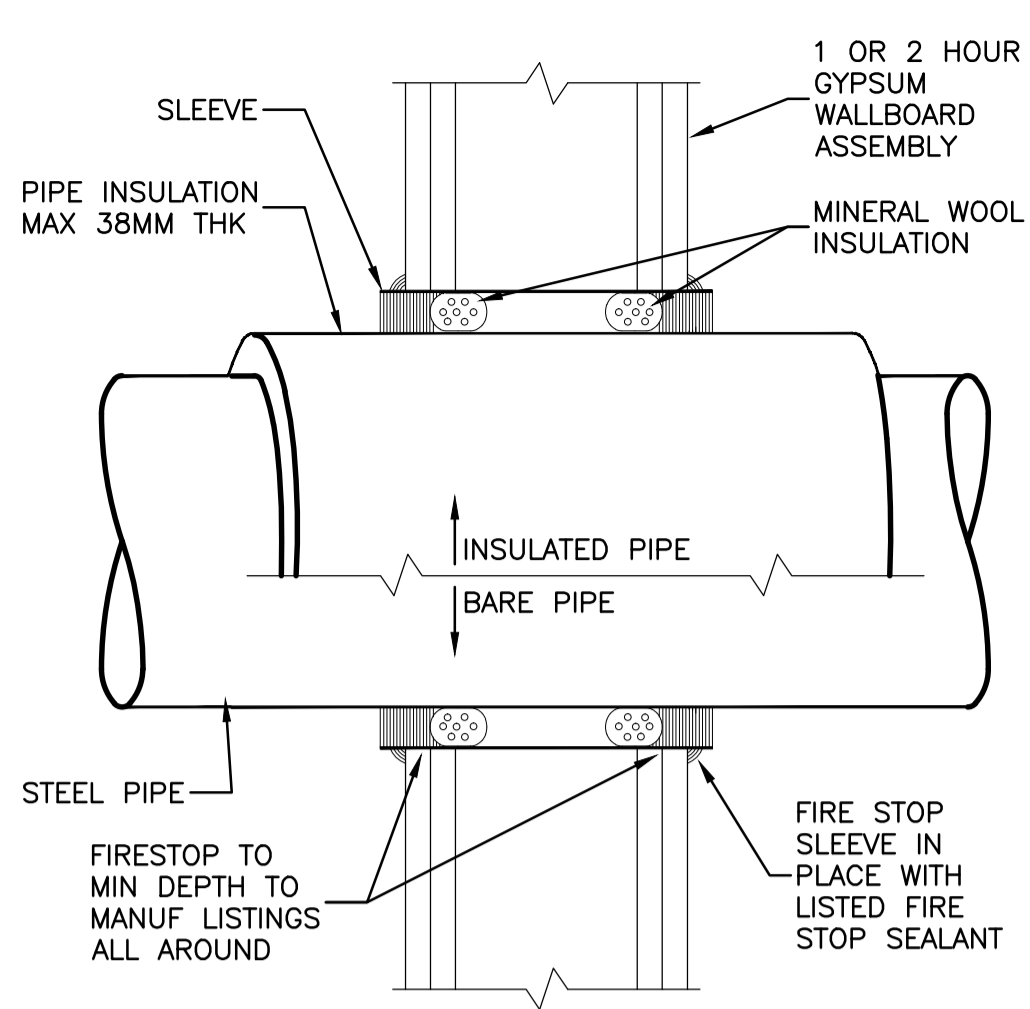


1 WELL DETAIL
SCALE: NTS

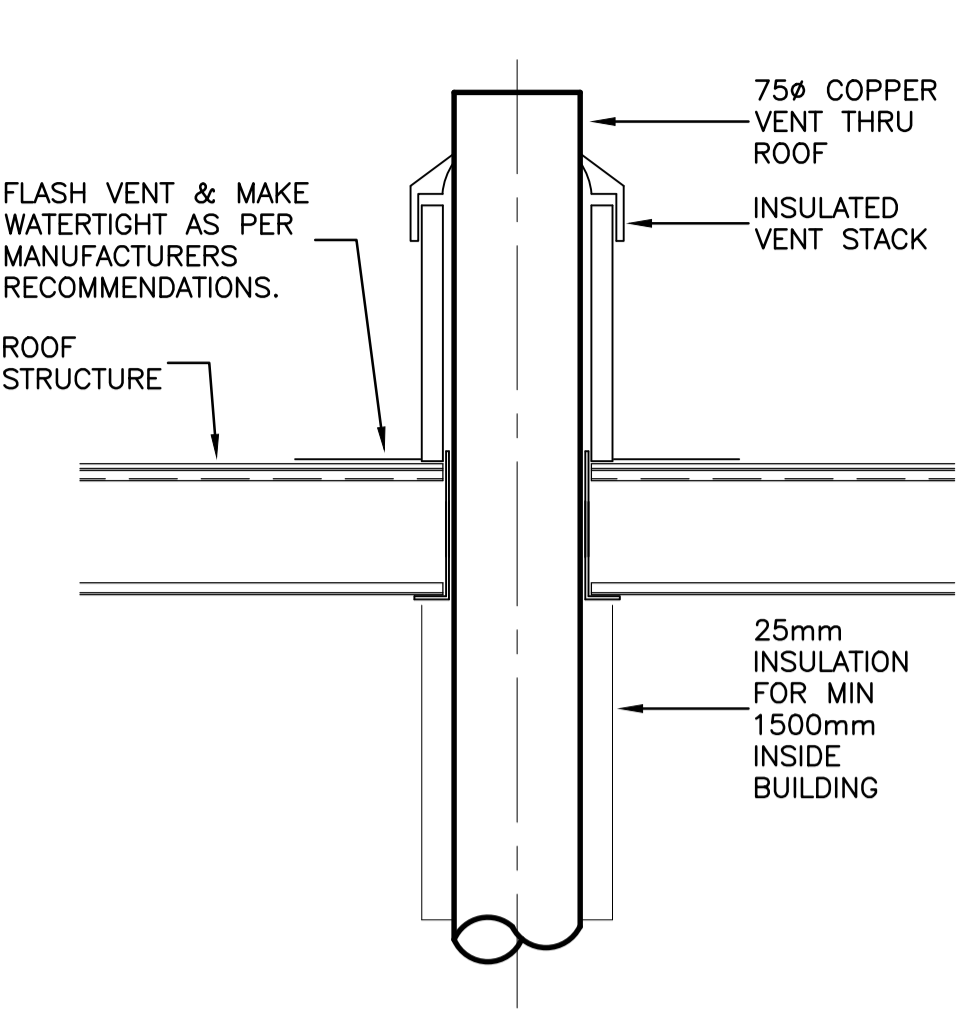




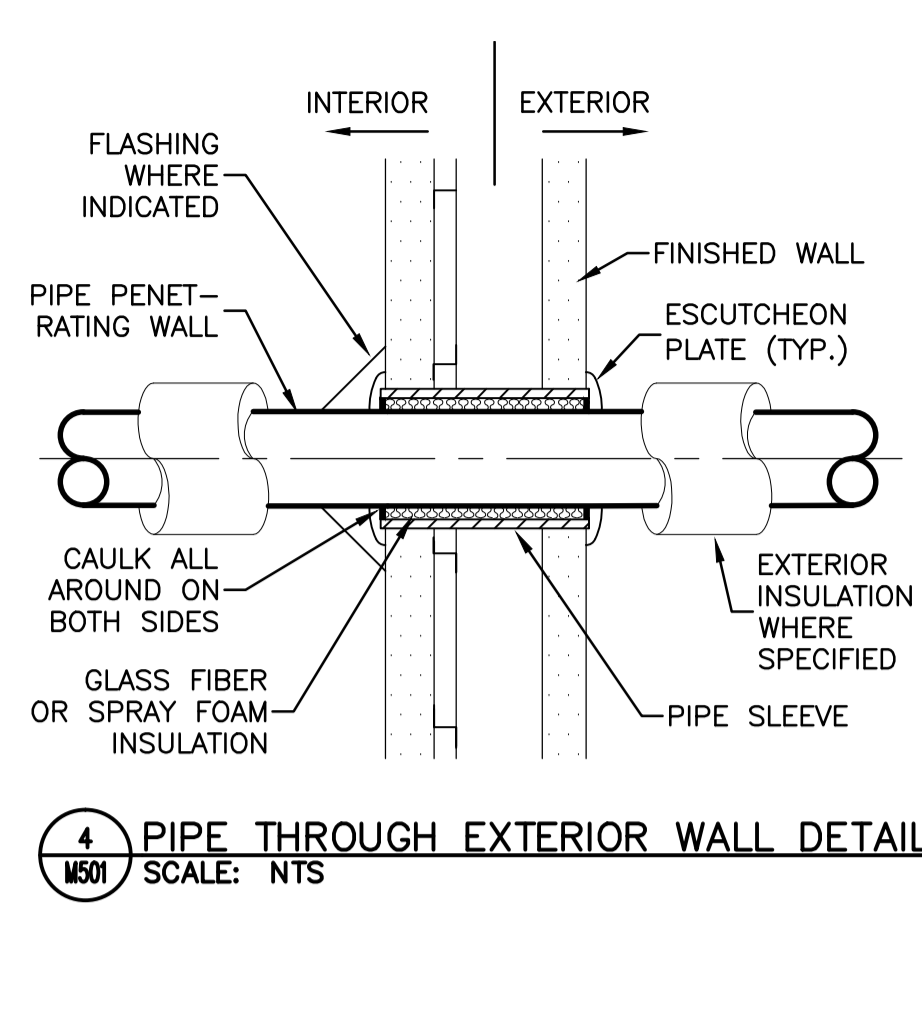
1 PVC 50mm & smaller pipe fire stop detail
SCALE: NTS



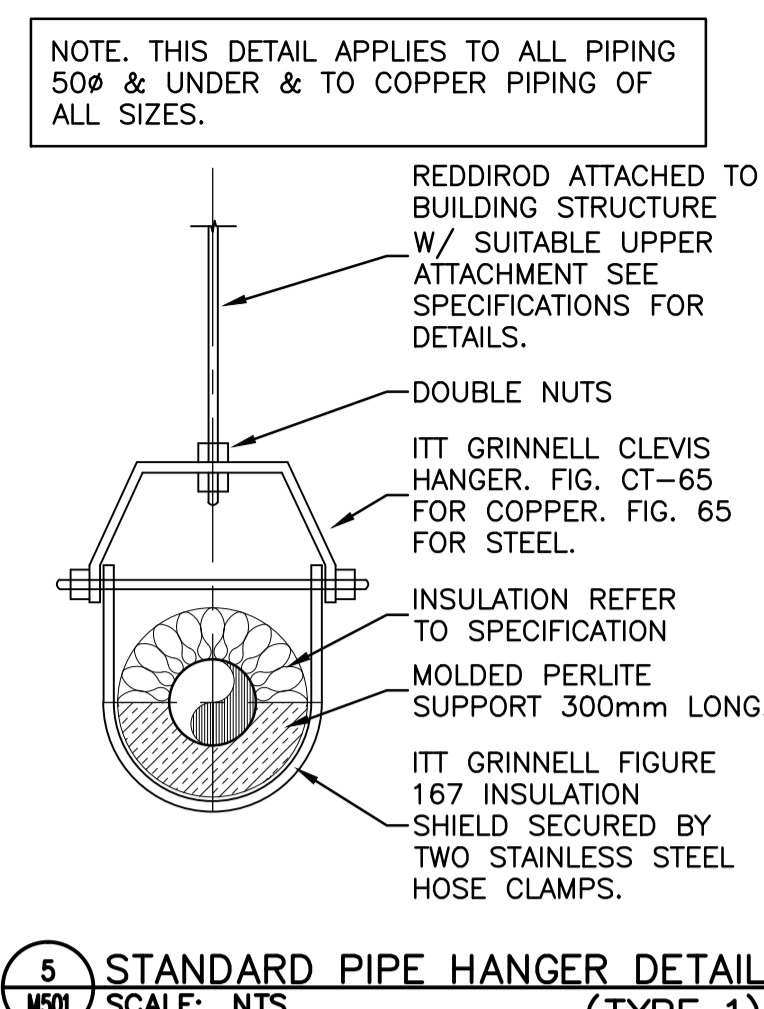
2 METALLIC BARE/INSULATED PIPE FIRE STOP DETAIL
SCALE: NTS



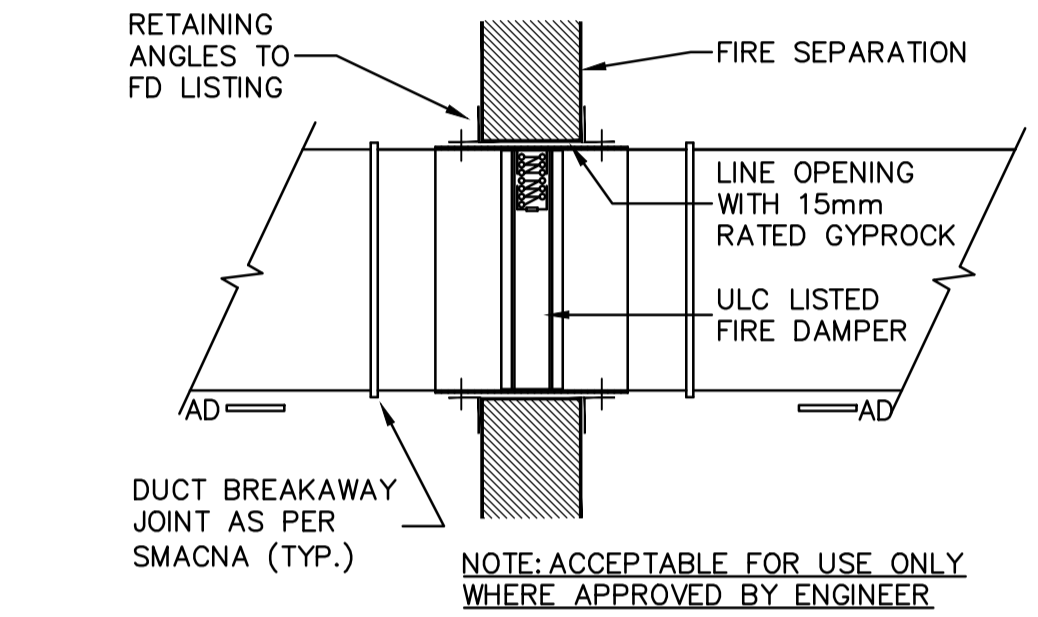
3 SANITARY ROOF VENT DETAIL
SCALE: NTS



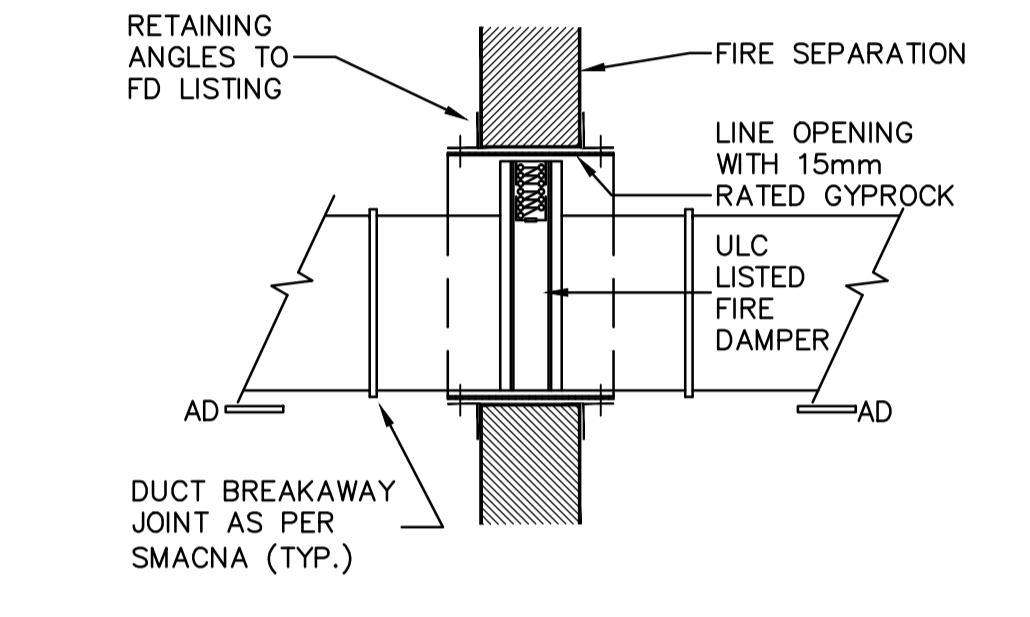
4 PIPE THROUGH EXTERIOR WALL DETAIL
SCALE: NTS



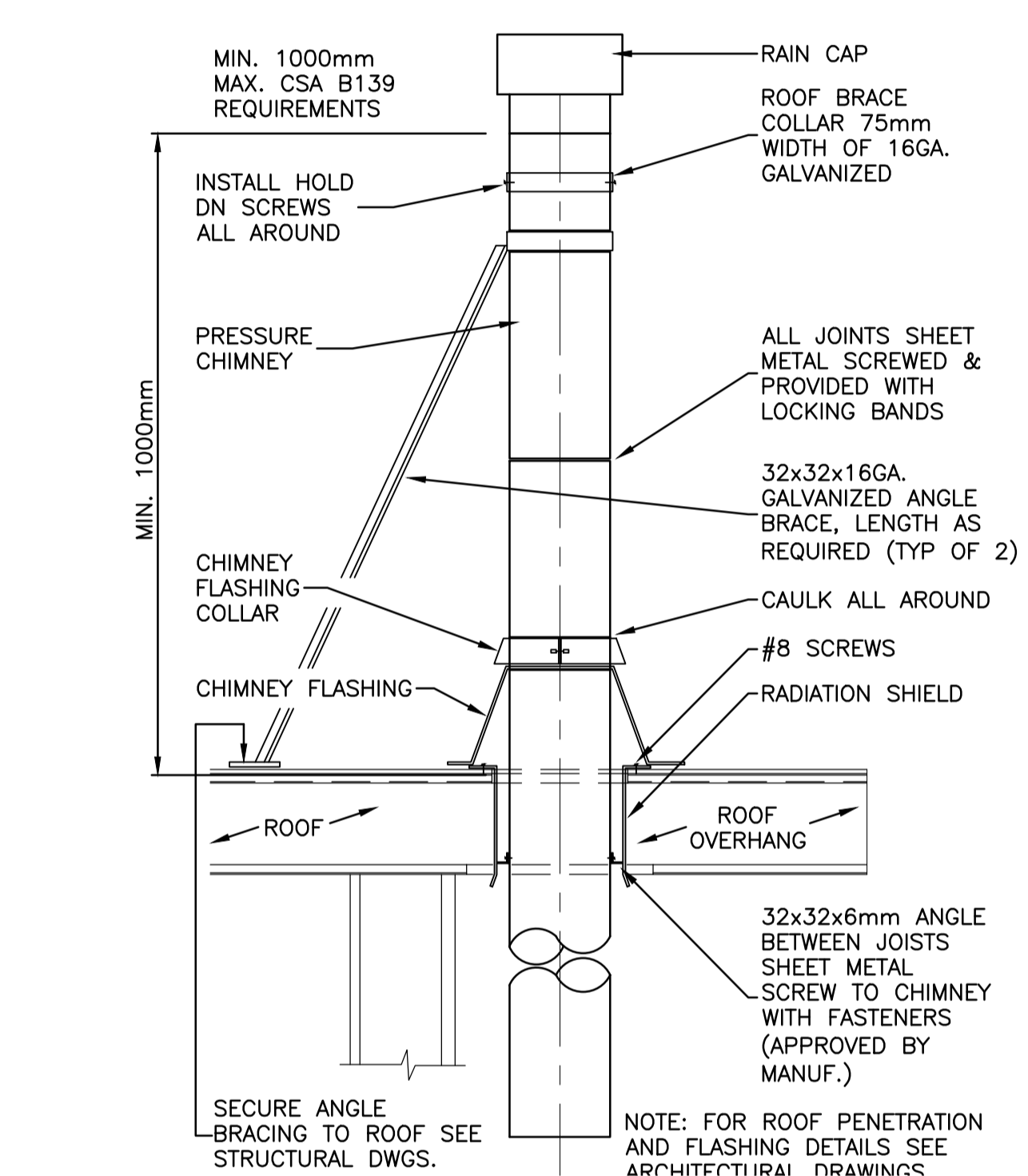
5 STANDARD PIPE HANGER DETAIL (TYPE 1)
SCALE: NTS



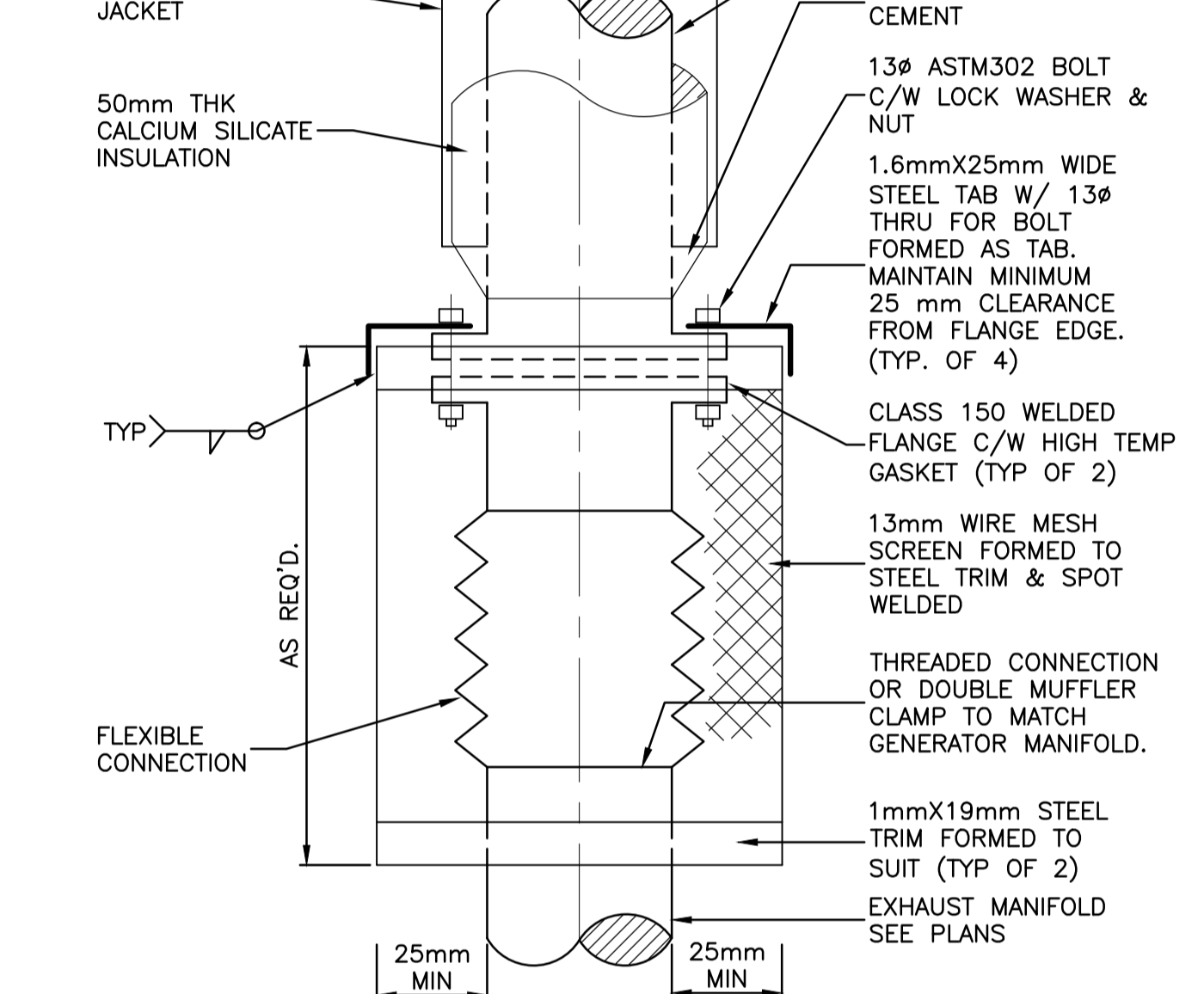
6 FIRE DAMPER DETAIL (TYPE 1)
SCALE: NTS



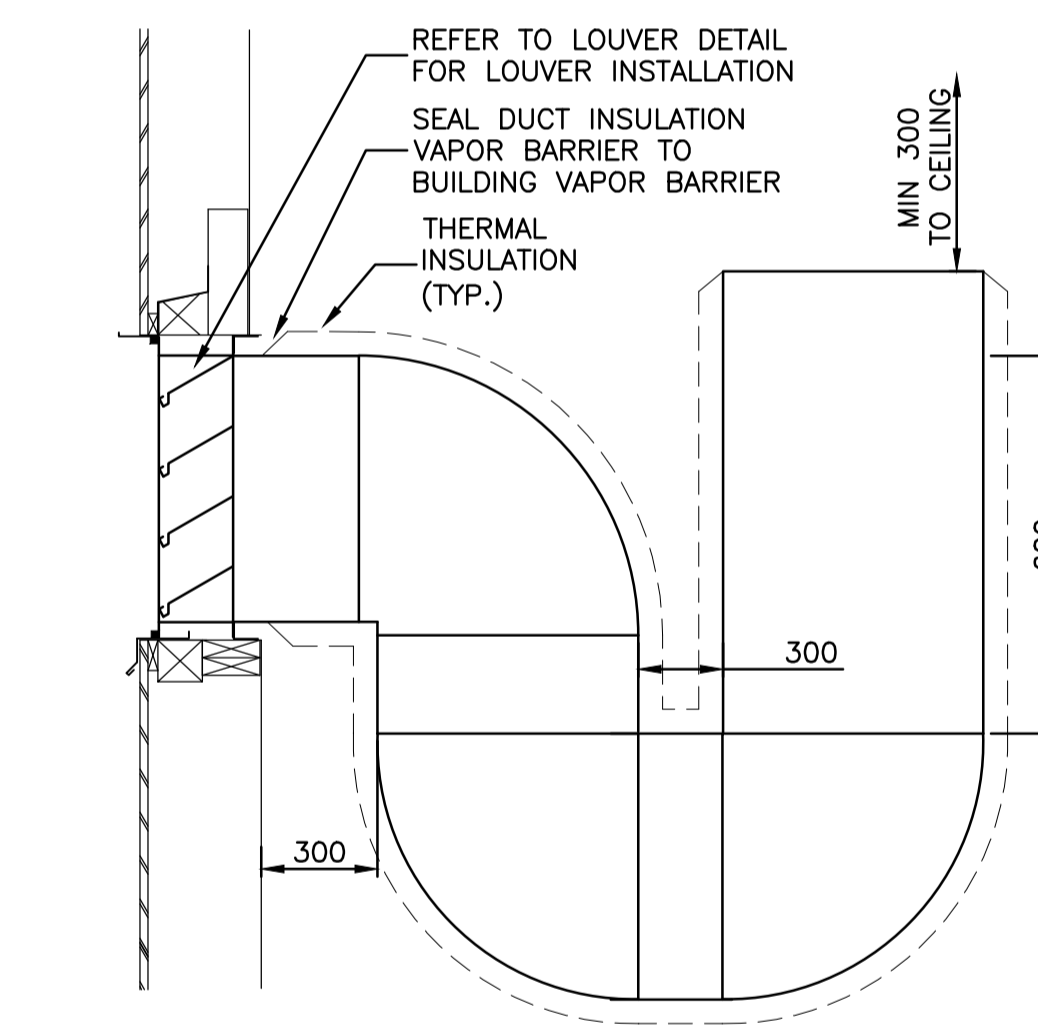
7 FIRE DAMPER DETAIL (TYPE 2)
SCALE: NTS



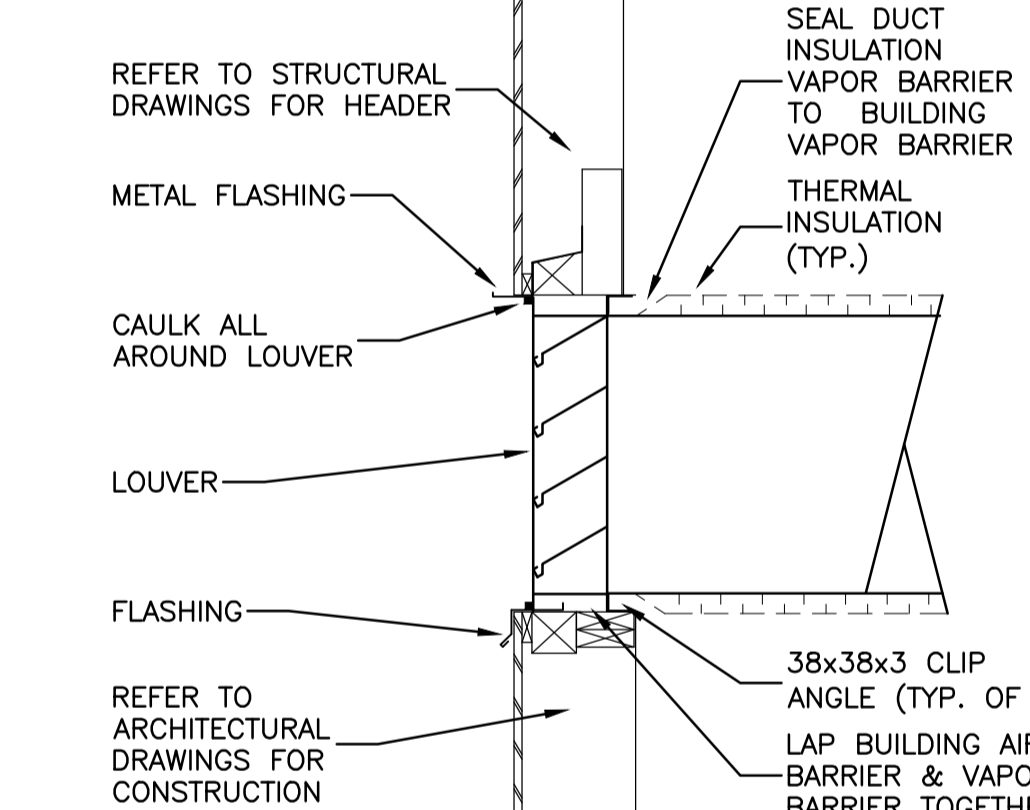
11 FURNACE CHIMNEY DETAIL (TOP)
SCALE: NTS



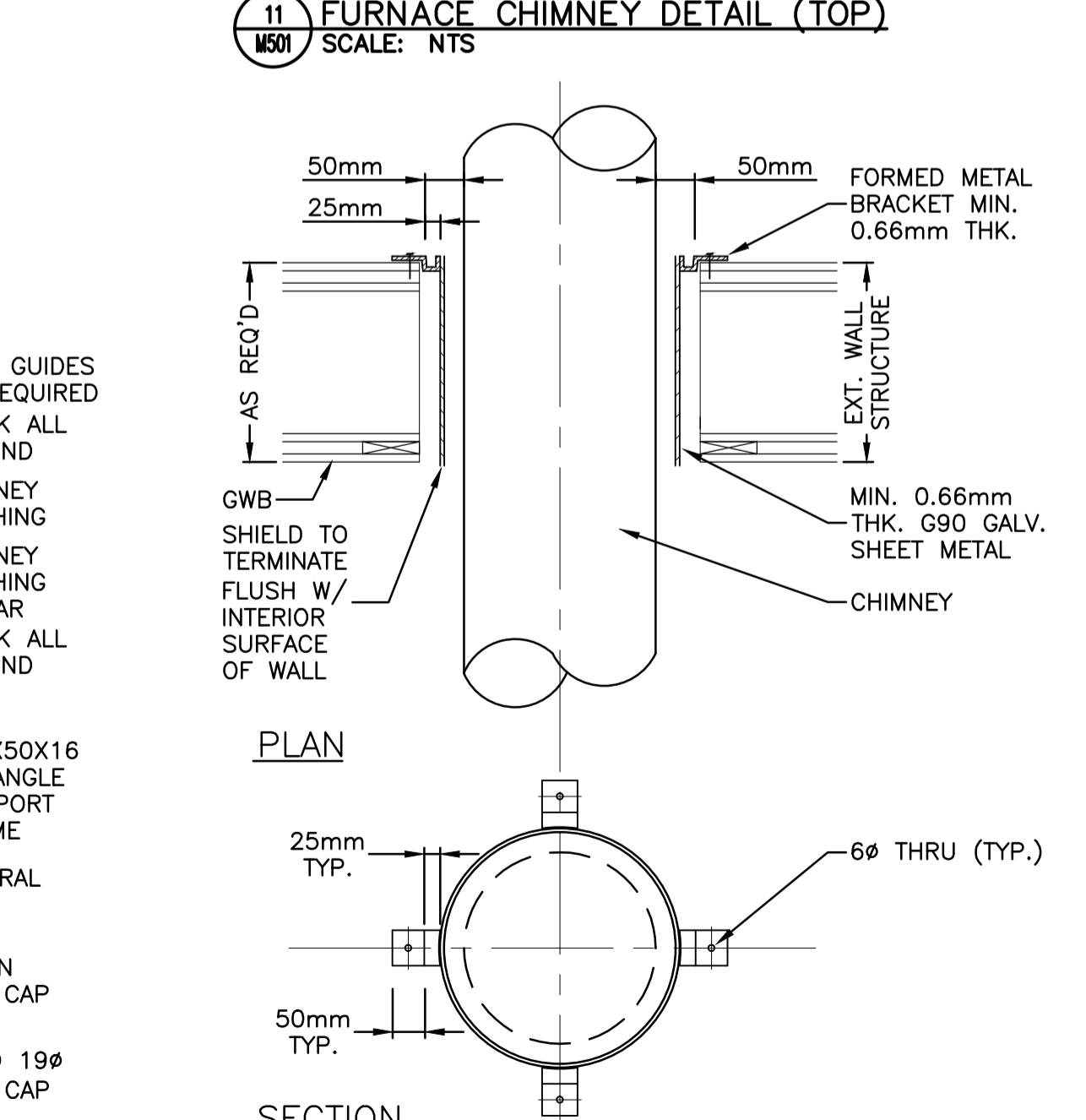
14 GENERATOR FLEXIBLE CONNECTION SAFETY SCREEN DETAIL
SCALE: NTS



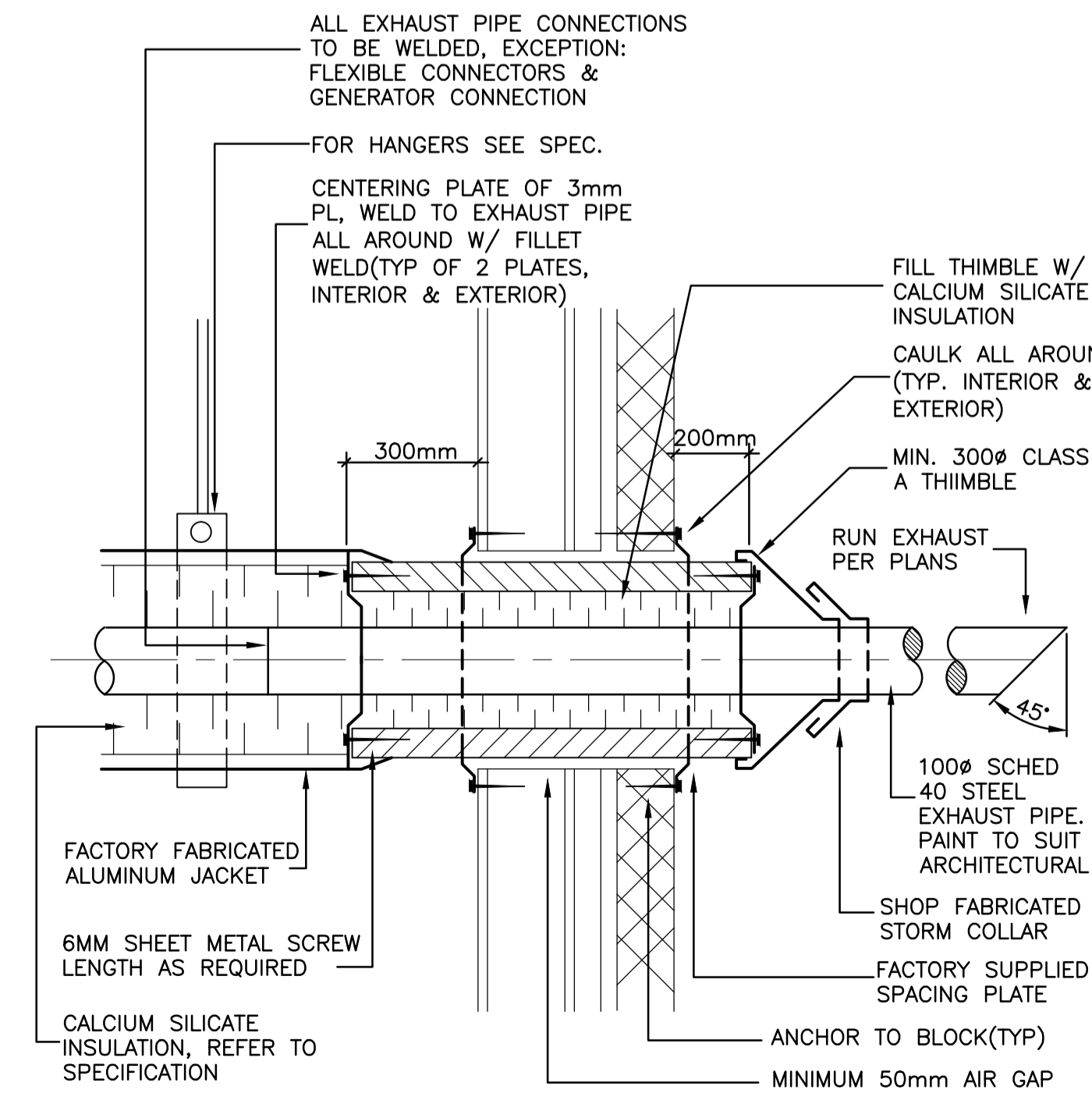
9 COMBUSTION AIR COLD AIR TRAP DETAIL
SCALE: NTS



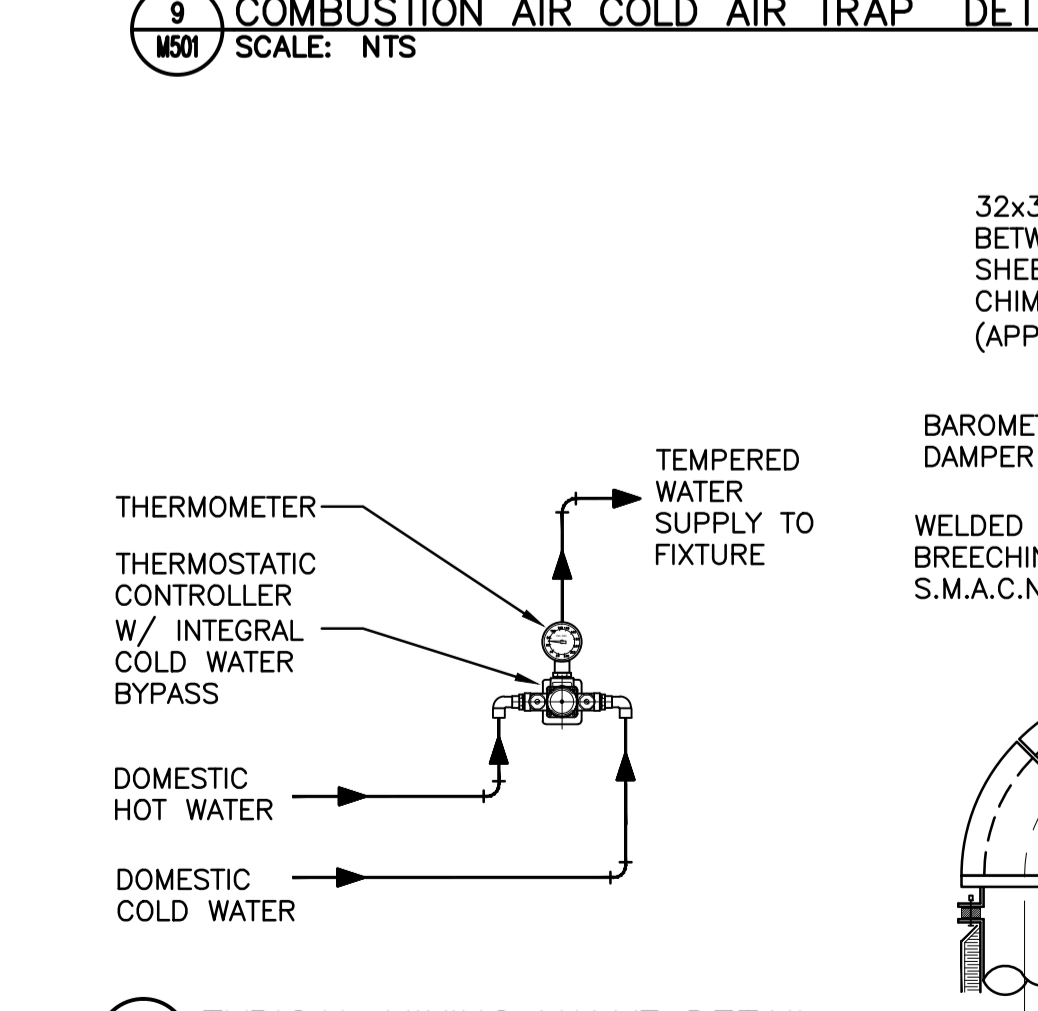
8 WALL LOUVER DETAIL
SCALE: NTS



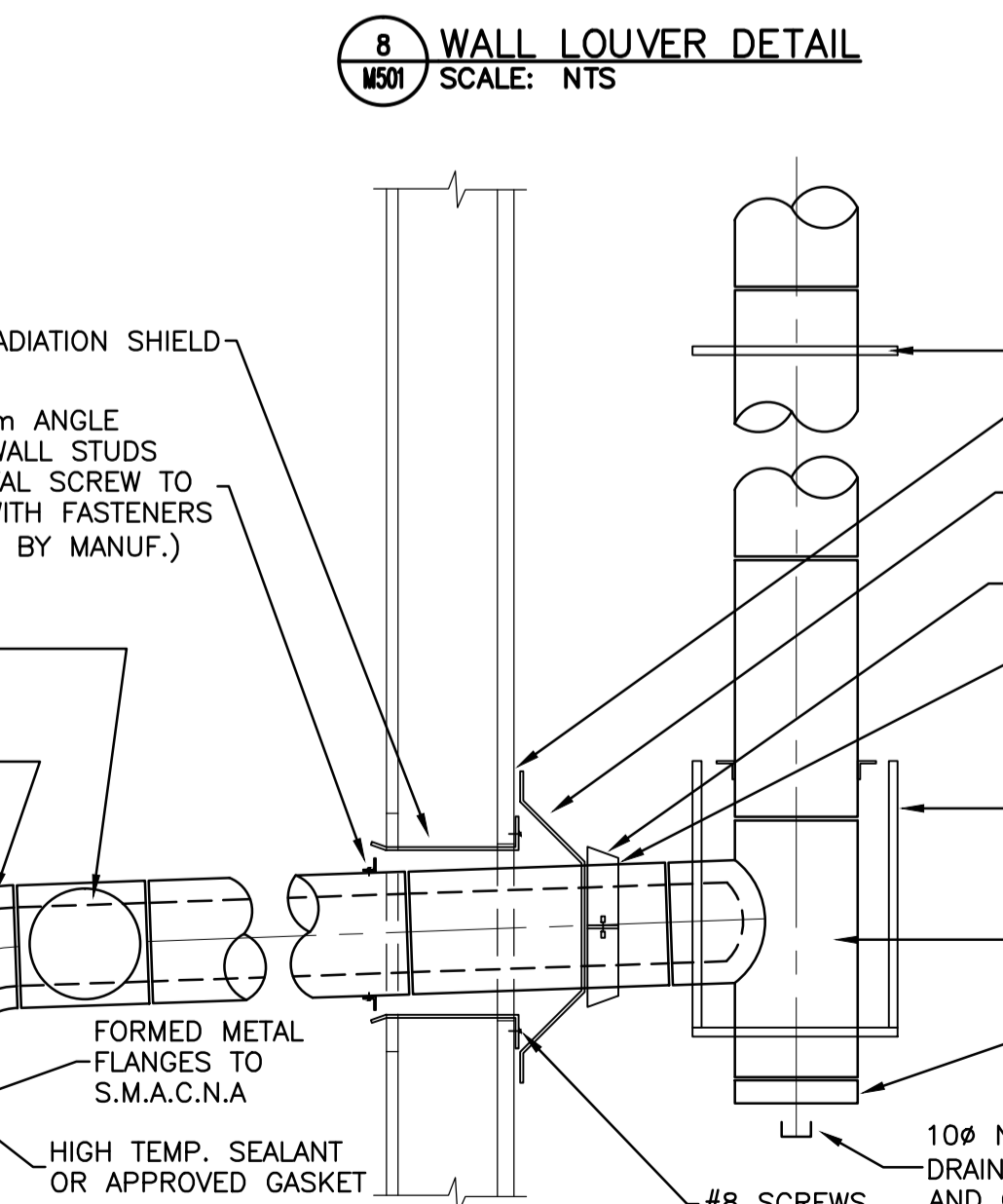
13 RADIATION SHIELD DETAIL
SCALE: NTS



15 GENERATOR EXHAUST THIMBLE THRU WALL DETAIL
SCALE: NTS



10 TYPICAL MIXING VALVE DETAIL
SCALE: NTS



12 FURNACE CHIMNEY DETAIL (BOTTOM)
SCALE: NTS

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REAL PROPERTY SERVICES Pacific Region / SERVICES IMMOBILIERS Région de Pacifique

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PROFESSIONAL ENGINEER
40792
149901928

Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	15.02.02

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet
PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

Consultant Signature Only

Designed by/Concept par
B.Zrum / S.Birrell

Drawn by/Dessiné par
B.Zrum

PWSSC Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin
DETAILS

Project No./No. du projet R.071363.001	Sheet/Feuille M501	Revision no./Lo Révision no. 0
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FURNACE SCHEDULE													
TAG No.	LOCATION	MANUFACTURER	MODEL	FUEL	INPUT (kW)	OUTPUT (kW)	COOLING		FAN MOTOR		MOTOR POWER (Hp)	V/PH	REMARKS
							CAPACITY (kW)	REFRIGERANT	FLOW (L/s)	E.S.P. (Pa)			
FRN-1	ROOM 105	-	-	No. 2 OIL	20.5	17.3	N/A	N/A	305	-	1/2	120/1	ECM VARIABLE SPEED BLOWER MOTOR
FRN-2	ROOM 105	-	-	No. 2 OIL	20.5	17.3	N/A	N/A	305	-	1/2	120/1	ECM VARIABLE SPEED BLOWER MOTOR

FAN SCHEDULE												
FAN No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	AIR FLOW (L/s)	EXTERNAL STATIC PRESS. (Pa)	MOTOR (Hp)	FAN RPM	ELECTRICAL (V/Ph/Hz)	MOUNTING ARR'GT	TYPE	REMARKS
CF-1	COOLING	ROOM 102 GRLN A:2	-	-	100	110	1/9	1000	120/1/60	CEILING	CENTRIFUGAL	INTERLOCKED WITH CD-5
EF-1	EXHAUST	ROOM 101 GRLN C1:2	-	-	25	75	1/6	1428	120/1/60	INLINE	CENTRIFUGAL	INTERLOCKED WITH CD-6

MOTORIZED DAMPER SCHEDULE					
TAG No.	DUTY	POSITION	TYPE	SIZE	REMARKS
CD-1	GENERATOR COMB/A	NC	2 POSITION	1800x150	PARALLEL BLADE THERMALLY INSULATED, THERMALLY BROKEN
CD-2	GENERATOR O/A	NC	MODULATING	1800x1500	OPPOSED BLADE THERMALLY INSULATED, THERMALLY BROKEN
CD-3	GENERATOR E/A	NC	MODULATING	1800x1500	OPPOSED BLADE THERMALLY INSULATED, THERMALLY BROKEN
CD-4	GENERATOR R/A	NO	MODULATING	900x750	OPPOSED BLADE
CD-5	ELECTRICAL ROOM O/A	NC	2 POSITION	200x150	PARALLEL BLADE THERMALLY INSULATED, THERMALLY BROKEN
CD-6	CHLORINE ROOM T/A	NC	2 POSITION	200x150	PARALLEL BLADE

GRILLE, DIFFUSER, AND LOUVER SCHEDULE							
TAG No.	MANUFACTURER	MODEL No.	SIZE	SERVICE	DESCRIPTION	FINISH	REMARKS
S-1	-	-	SEE DWG	SUPPLY	DOUBLE DEFLECTION SUPPLY GRILLE	WHITE	19mm BLADE SPACING, C/W BALANCING DAMPER
R-1	-	-	SEE DWG	RETURN	EGG CRATE RETURN GRILLE	WHITE	
T-1	-	-	SEE DWG	TRANSFER	EGG CRATE RETURN GRILLE	WHITE	
LOUVER	-	-	SEE DWG	-	STATIONARY, DRAINABLE LOUVER	-	

ELECTRIC DOMESTIC HOT WATER HEATER SCHEDULE							
TAG No.	LOCATION	MANUFACTURER	MODEL	CAPACITY (L)	ELEMENTS (W)	V/PH	REMARKS
DHWH-1.1	ROOM 100 GRLN B-C:2-3	-	-	303	1 @ 3000	208/3	610mm DIAMETER

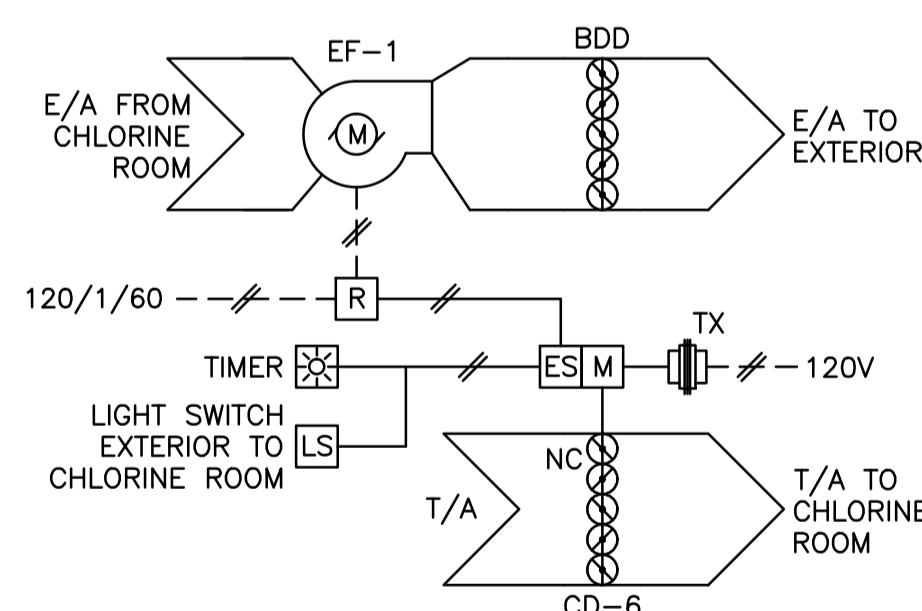
PLUMBING FIXTURES SCHEDULE								
TAG No.	MANUFACTURER	MODEL No.	DESCRIPTION	DCW (Ømm)	DHW (Ømm)	SAN (Ømm)	VENT(Ø mm)	REMARKS
ES-1	-	-	EMERGENCY DRENCH SHOWER AND EYEWASH STATION	32	32	N/A	N/A	EMERGENCY SHOWER C/W EYEWASH STATION AND LEAD FREE THERMOSTATIC MIXING VALVE.
FD-1	-	-	FLOOR DRAIN	N/A	N/A	75	N/A	
HB-1	-	-	INTERIOR HOSE BIBB	19	N/A	N/A	N/A	COMMERCIAL GRADE, STAINLESS STEEL, LEAD FREE, W/ VACUUM BREAKER
SK-1	-	-	SAMPLE SINK	13	13	38	32	410x478x254 (LxWxD) STAINLESS STEEL DROP-IN SINK C/W 102mm CENTERSET 114mm RADIUS GOOSNECK FAUCET W/ 150mm WRIST BLADE HANDLES

FIRE EXTINGUISHER SCHEDULE						
TAG No.	MANUFACTURER	MODEL No.	DESCRIPTION	UL RATING	BRACKET	REMARKS
DCE-1	-	-	PRESSURIZED DRY CHEMICAL, 9.07 kg	10A-120B:C	STANDARD HANGER WITH QUICK RELEASE MECHANICAL RETENSION STRAP	
DCE-2	-	-	PRESSURIZED DRY CHEMICAL, 4.54 kg	4A-80B:C	STANDARD HANGER WITH QUICK RELEASE MECHANICAL RETENSION STRAP	SUITABLE FOR OUTDOOR MOUNTING C/W HIGH VISIBILITY, HEAVY DUTY COVER

TANK SCHEDULE									
TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	USAGE	TANK VOLUME (L)	TANK ACCEPTANCE VOLUME (L)	DIMENSIONS (Ø x L) (W x L x H) (mm)	REMARKS
N/A	PRESSURE TANK	-	FLEXCON INDUSTRIES	PC366R	-	450	180	660x1518	EXISTING TANK LOCATED IN OLD WELLHOUSE TO BE TURNED OVER TO OWNER
TK-1.1	EXPANSION TANK	ROOM 100 GRLN B	ELBI	FLEXTRON AF-300	FILTERED RAW WATER	-	300	660x1290	EXISTING TANK LOCATED IN GENERATOR BUILDING TO BE RELOCATED
TK-1.2	EXPANSION TANK	ROOM 100 GRLN B	ELBI	FLEXTRON AF-300	FILTERED RAW WATER	-	300	660x1290	EXISTING TANK LOCATED IN GENERATOR BUILDING TO BE RELOCATED
TK-1.3	EXPANSION TANK	ROOM 100 GRLN B	ELBI	FLEXTRON AF-300	FILTERED RAW WATER	-	300	660x1290	EXISTING TANK LOCATED IN GENERATOR BUILDING TO BE RELOCATED
TK-1.4	EXPANSION TANK	ROOM 100 GRLN B	-	-	FILTERED RAW WATER	-	300	660x1290	NEW TANK TO MATCH TK-1.1, TK-1.2, AND TK-1.3
TK-1.5	TREATMENT	ROOM 100 GRLN B	WELLMATE	WM-UT-450	CHLORINE CONTACT	454	-	610x1860	EXISTING TANK LOCATED IN GENERATOR BUILDING TO BE RELOCATED
TK-1.6	TREATMENT	ROOM 100 GRLN B	WELLMATE	WM-UT-450	CHLORINE CONTACT	454	-	610x1860	EXISTING TANK LOCATED IN GENERATOR BUILDING TO BE RELOCATED
TK-1.7	CHLORINE HOLDING	ROOM 101 GRLN C1:2	-	-	CHLORINE HOLDING	75	-	356x813	NEW TANK TO BE USED FOR CHLORINE SOLUTION HOLDING/MIXING FOR DOSING PUMPS

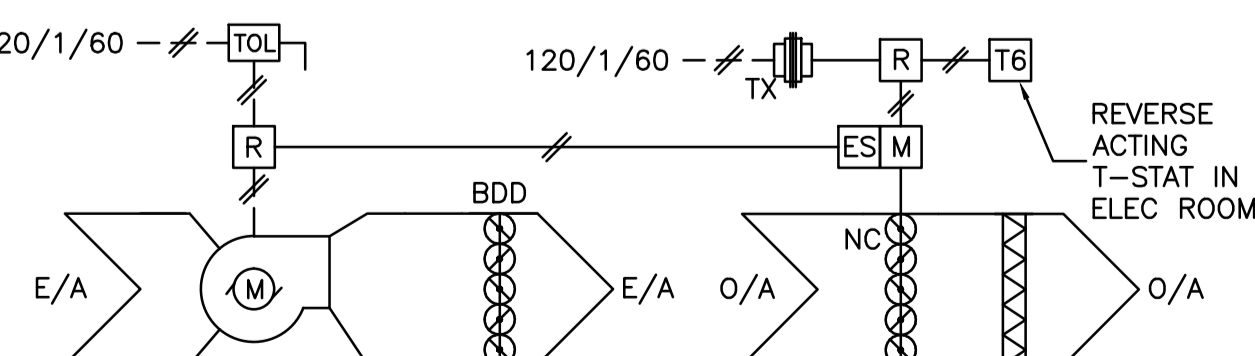
PUMP SCHEDULE											
TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	CAPACITY (L/s)	HEAD (M)	FLUID	MOTOR (Hp)	RPM	ELECTRICAL (V/Ph/Hz)	REMARKS
P-1.1	RAW WATER	WELL	-	-	1.26	78.7	WATER	3	3450	208/3/60	PUMP TO BE SUITABLE FOR 150mm CASING/BOREHOLE
P-1.2	RAW WATER BOOSTER	ROOM 100 GRLN C:1	-	-	1.92	26.5	WATER	1.5	-	UNKNOWN	EXISTING PUMP LOCATED IN OLD WELLHOUSE TO BE TURNED OVER TO OWNER
P-1.3	RAW WATER BOOSTER	ROOM 100 GRLN C:1	-	-	1.92	26.5	WATER	1.5	-	UNKNOWN	EXISTING PUMP LOCATED IN OLD WELLHOUSE TO BE TURNED OVER TO OWNER
CL-1	CHLORINE INJECTION	ROOM 101 GRLN 2	-	-	-	-	CL SOL'N	20W	-	120/1/60	
CL-2	CHLORINE INJECTION	ROOM 101 GRLN 2	-	-	-	-	CL SOL'N	20W	-	120/1/60	

- NOTES:
 1. TWO-POSITION CD-6 INTERLOCKED WITH EF-1.
 2. LIGHT SWITCH OR TIMER TO ACTIVATE CD-6.
 3. EF-1 ON ONCE CD-6 FULLY OPEN.
 4. TIMER SET FOR 5 MIN PER HOUR (ADJUSTABLE).

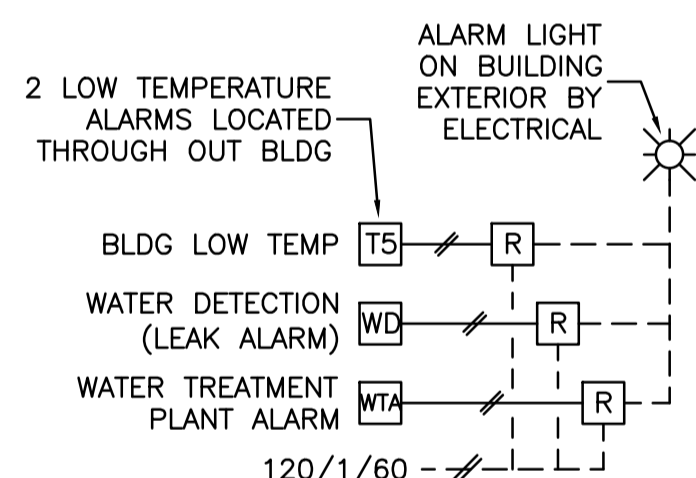


2 CHLORINE ROOM EXHAUST CONTROL SCHEMATIC
SCALE: NTS

- NOTES:
 1. TWO-POSITION CD-5 INTERLOCKED WITH CF-1, OPEN WHEN CF-1 ON.
 2. T-STAT TO CYCLE CF-1 TO SATISFY SETPOINT.
 3. INITIAL SETPOINT 30°C (ADJUSTABLE).

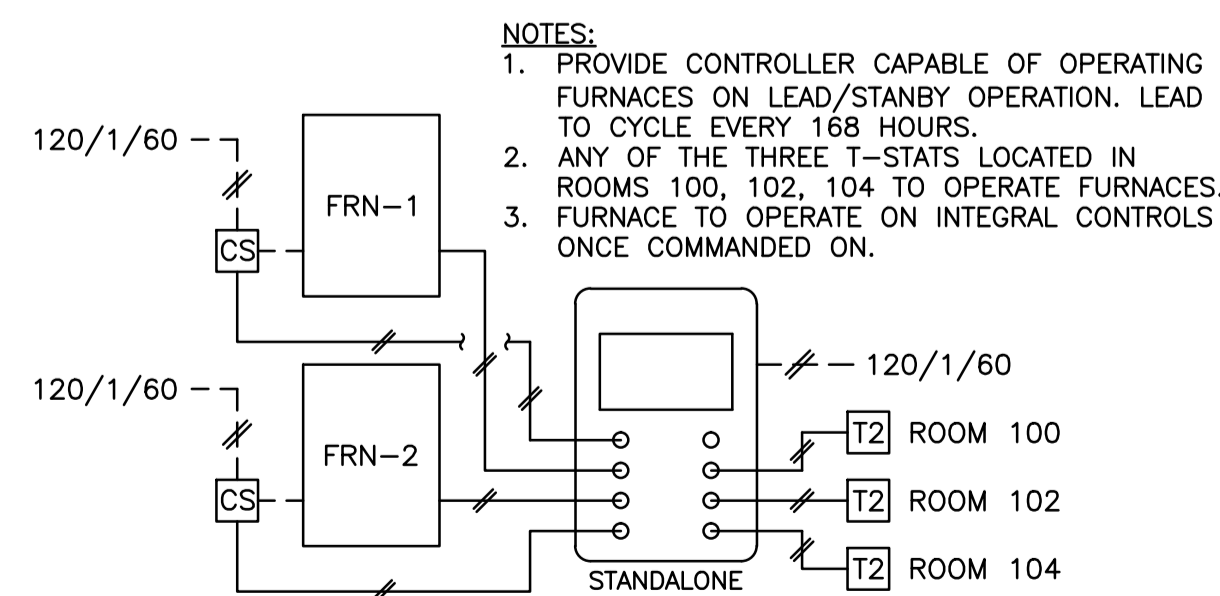


3 ELECTRICAL ROOM COOLING CONTROL SCHEMATIC
SCALE: NTS



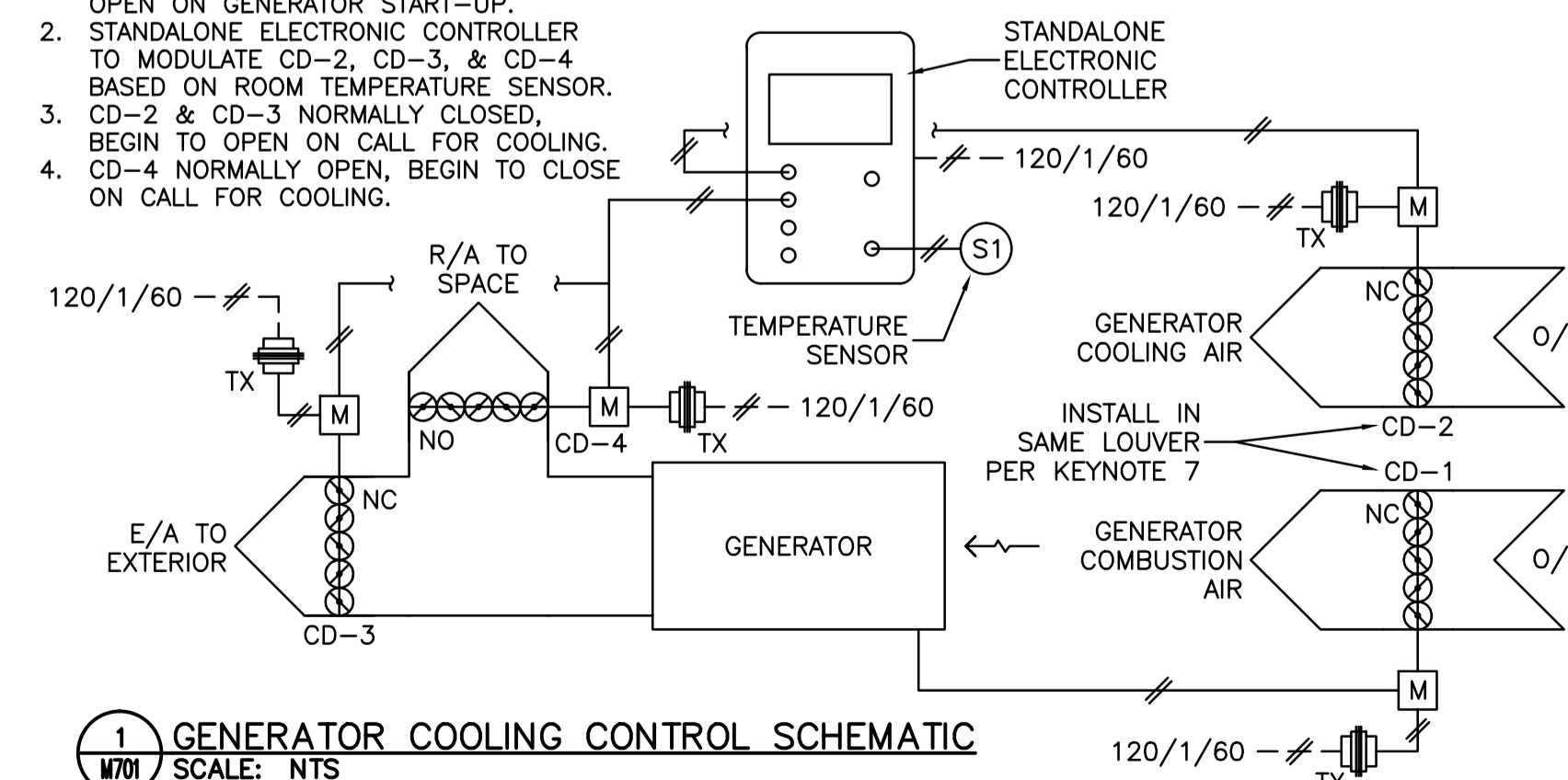
- NOTES:
 1. BUILDING LOW TEMPERATURE ALARMS TO BE LOCATED IN ROOMS 100 AND 102.
 2. TOTAL OF 3 WATER DETECTORS AND ASSOCIATED REQUIRED CONTROL PANEL(S) TO BE INSTALLED IN THE WATER TREATMENT ROOM AS INDICATED ON DRAWING M101.
 3. WATER TREATMENT PLANT ALARM IS FOR ALL ALARMS GENERATED BY THE WATER TREATMENT PLANT EQUIPMENT.

5 BUILDING ALARM SCHEMATIC
SCALE: NTS



4 FURNACE CONTROL SCHEMATIC
SCALE: NTS

- NOTES:
 1. CD-1 INTERLOCKED WITH GENERATOR, OPEN ON GENERATOR START-UP.
 2. STANDALONE ELECTRONIC CONTROLLER TO MODULATE CD-2, CD-3, & CD-4 BASED ON ROOM TEMPERATURE SENSOR.
 3. CD-2 & CD-3 NORMALLY CLOSED, BEGIN TO OPEN ON CALL FOR COOLING.
 4. CD-4 NORMALLY OPEN, BEGIN TO CLOSE ON CALL FOR COOLING.



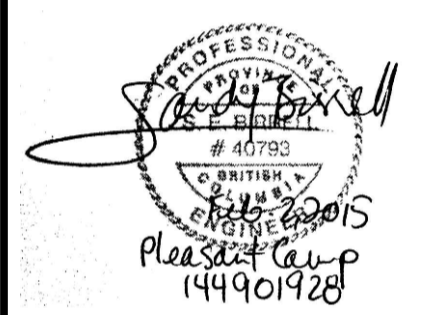
1 GENERATOR COOLING CONTROL SCHEMATIC
SCALE: NTS



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Revision/	Description/Description	Date/Date

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

PLEASANT CAMP PORT OF ENTRY TENDER A
SITE SERVICES & SITE SERVICES BUILDING

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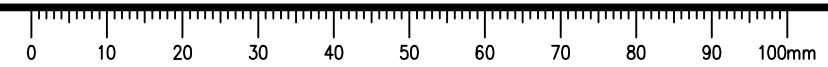
Designed by/Concept par B.Zrum / S.Birrell
 Drawn by/Dessiné par B.Zrum
 PWSSC Project Manager/Administrateur de Projets TPSGC

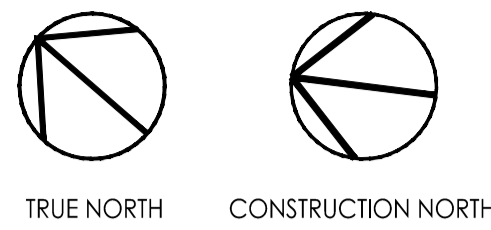
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Drawing title/Titre du dessin

SCHEDULES AND CONTROLS SCHEMATICS

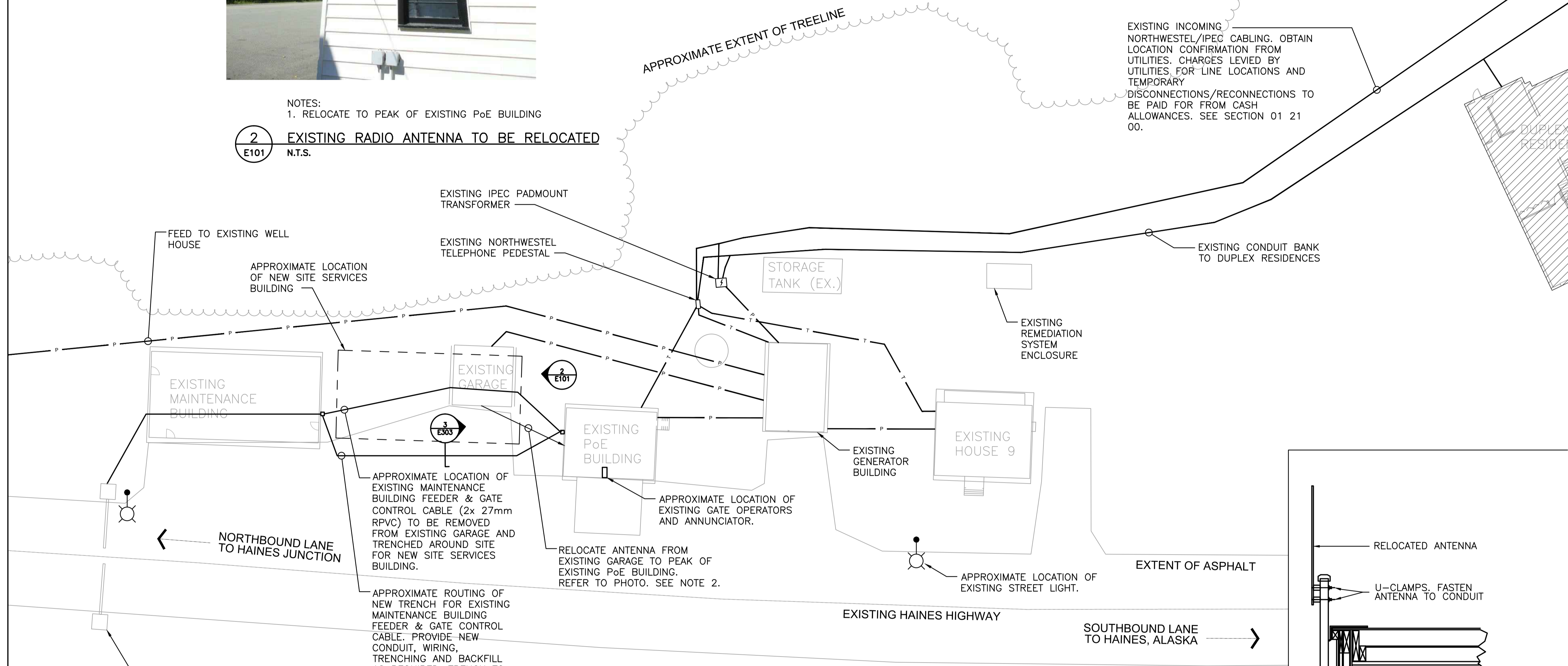
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.071363.001	M701	0





NOTES:
1. RELOCATE TO PEAK OF EXISTING PoE BUILDING

2 EXISTING RADIO ANTENNA TO BE RELOCATED
E101 N.T.S.



EXISTING INCOMING NORTHWESTEL/IPEC CABLING. OBTAIN LOCATION CONFIRMATION FROM UTILITIES. CHARGES LEVIED BY UTILITIES FOR LINE LOCATIONS AND TEMPORARY DISCONNECTIONS/RECONNECTIONS TO BE PAID FOR FROM CASH ALLOWANCES. SEE SECTION 01 21 00.

FEED TO EXISTING WELL HOUSE
APPROXIMATE LOCATION OF NEW SITE SERVICES BUILDING

EXISTING IPEC PADMOUNT TRANSFORMER
EXISTING NORTHWESTEL TELEPHONE PEDESTAL

STORAGE TANK (EX.)

EXISTING CONDUIT BANK TO DUPLEX RESIDENCES

EXISTING REMEDIATION SYSTEM ENCLOSURE

EXISTING MAINTENANCE BUILDING

EXISTING GARAGE

EXISTING PoE BUILDING

EXISTING GENERATOR BUILDING

EXISTING HOUSE 9

NORTHBOUND LANE TO HAINES JUNCTION

APPROXIMATE LOCATION OF EXISTING MAINTENANCE BUILDING FEEDER & GATE CONTROL CABLE (2x 27mm RPVC) TO BE REMOVED FROM EXISTING GARAGE AND TRENCHED AROUND SITE FOR NEW SITE SERVICES BUILDING.

RELOCATE ANTENNA FROM EXISTING GARAGE TO PEAK OF EXISTING PoE BUILDING. REFER TO PHOTO. SEE NOTE 2.

APPROXIMATE LOCATION OF EXISTING GATE OPERATORS AND ANNUNCIATOR.

APPROXIMATE LOCATION OF EXISTING STREET LIGHT.

EXTENT OF ASPHALT

EXISTING HAINES HIGHWAY

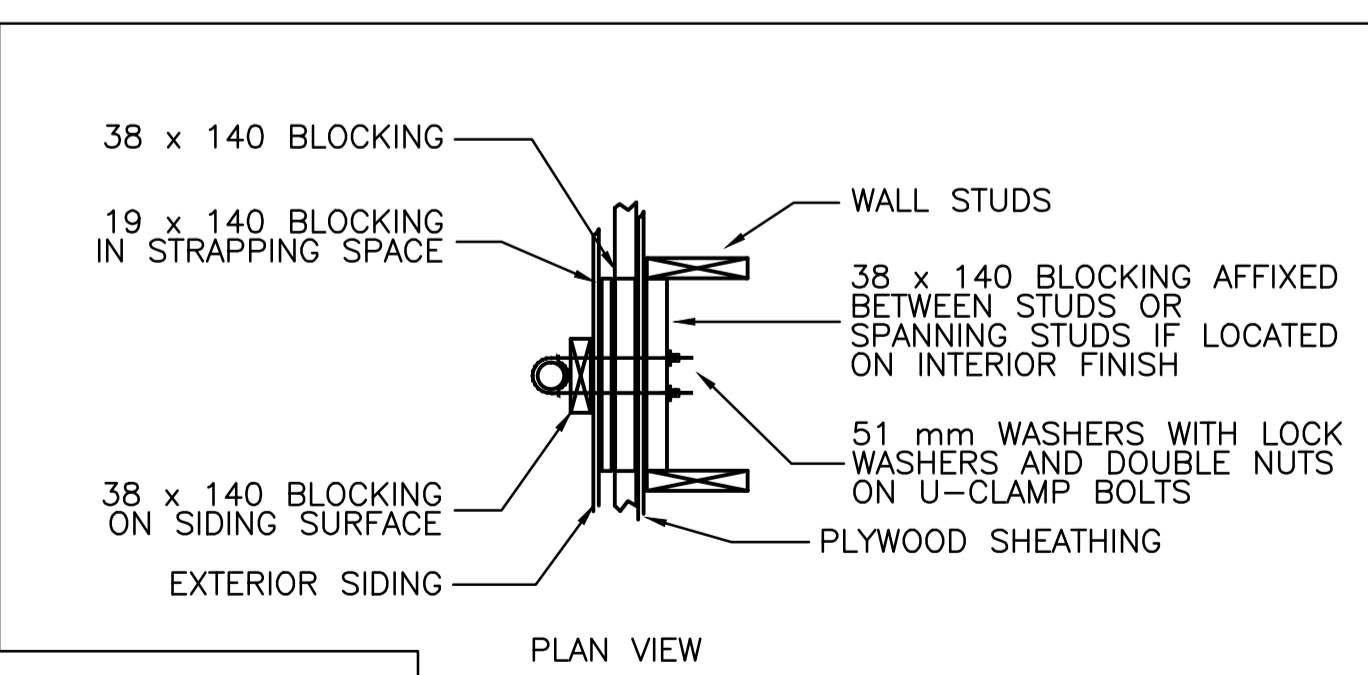
SOUTHBOUND LANE TO HAINES, ALASKA

EXISTING PORT RUNNING GATES

APPROXIMATE ROUTING OF NEW TRENCH FOR EXISTING MAINTENANCE BUILDING FEEDER & GATE CONTROL CABLE. PROVIDE NEW CONDUIT, WIRING, TRENCHING AND BACKFILL AS REQUIRED. TRENCH TO EDGE OF MAINTENANCE BUILDING AND RUN CONDUITS TO EXISTING JUNCTION BOXES ON EXTERIOR OF MAINTENANCE BUILDING WALL. ALLOW FOR 10x #12 OR 2x 3C#18 WIRING FOR CONTROL (CONFIRM ON SITE).

NOTES:
1. LOCATIONS OF EXISTING SHALLOW UTILITIES ARE BASED ON AS-BUILT INFORMATION PROVIDED BY OTHERS. SITE CONDITIONS MAY NOT BE ACCURATELY REPRESENTED BY THESE DRAWINGS. THIS DRAWING DOES NOT REPRESENT ALL SITE UTILITIES. REFER TO G003
2. DISCONNECT AND RECONNECT ANTENNA AT LOCATION SHOWN. PRIOR TO DISCONNECTING, SCHEDULE ANY DOWN-TIME WITH LOCAL CBSA REPRESENTATIVE AT LEAST 3 DAYS IN ADVANCE. SEE DETAIL 3/E101
3. SEE SPECIFICATIONS SECTION 01 11 00 FOR WORK CONSTRAINTS.
4. A GROUND-PENETRATING RADAR SITE SURVEY IS DESCRIBED IN SPECIFICATION SECTION 33 65 80. COORDINATE WITH THE TRADE CONDUCTING THE SURVEY AND PROVIDE ANY SERVICES REQUIRED TO ASSIST WITH DISCONNECTION OR IDENTIFICATION OF ELECTRICAL UNDERGROUND SERVICES PRIOR TO TRENCHING, DIGGING OR MAKING ANY BELOW-GRADE INSTALLATIONS, CONFIRM THAT THERE ARE NO OBSTRUCTIONS.

1 SITE PLAN - EXISTING SERVICES
E101 1:250

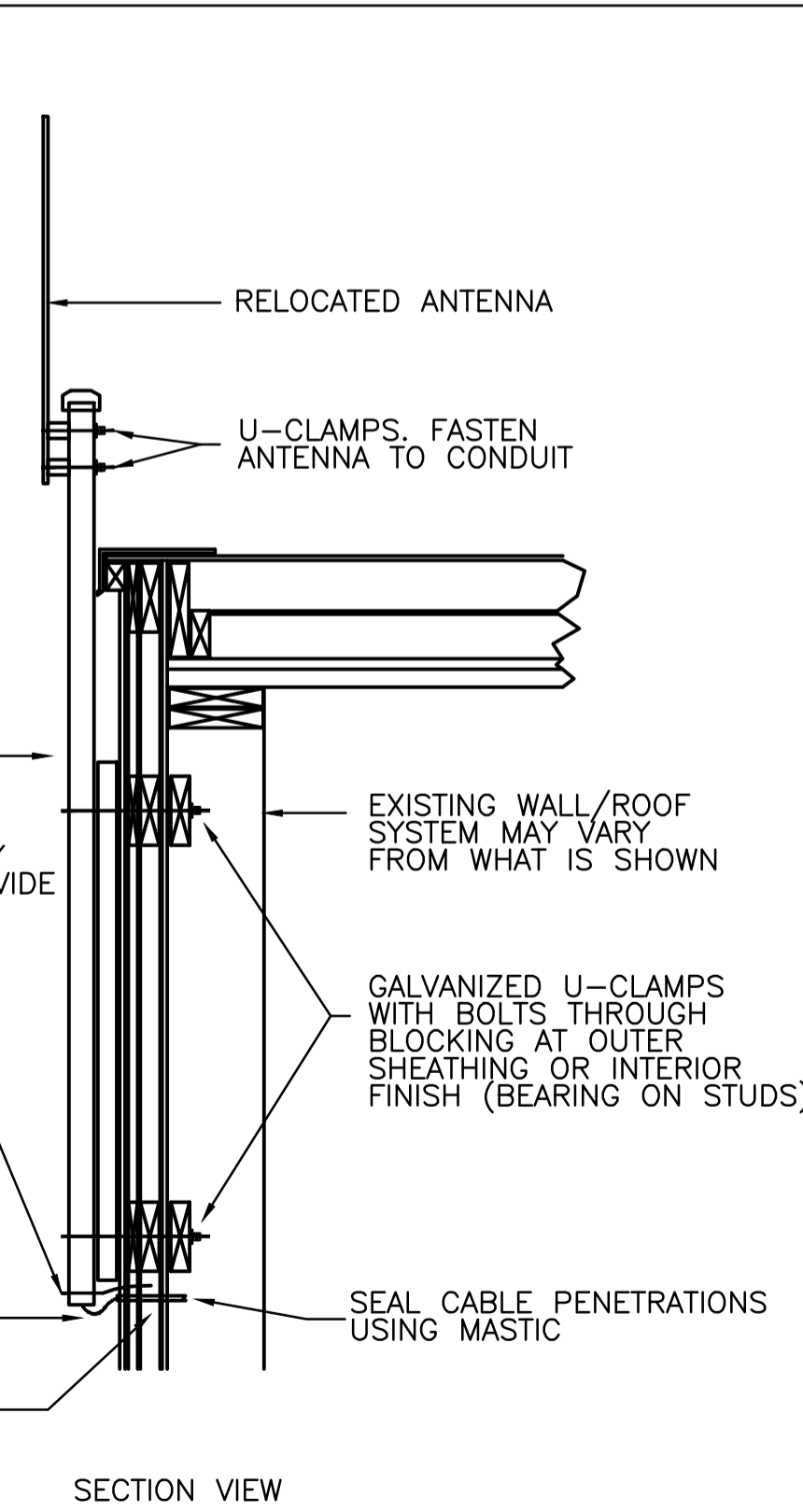


PLAN VIEW

51 mm RIGID STEEL CONDUIT
MOUNT ANTENNA ELEMENT DIRECTLY TO RIGID STEEL CONDUIT AND PROVIDE ANY ADAPTERS AND CONNECTORS REQUIRED.

PROVIDE GROUND CLAMP ON CONDUIT AND CONNECT #6 GREEN INSULATED BOND WIRE RUN TO NEAREST GROUND BUS IN EXISTING PoE BUILDING

ANTENNA CABLE FROM EQUIPMENT TO ANTENNA
CABLE TO BACKBOARD OR RADIO EQUIPMENT AS REQUIRED



SECTION VIEW

RELOCATED ANTENNA
U-CLAMPS. FASTEN ANTENNA TO CONDUIT

EXISTING WALL/ROOF SYSTEM MAY VARY FROM WHAT IS SHOWN
GALVANIZED U-CLAMPS WITH BOLTS THROUGH BLOCKING AT OUTER SHEATHING OR INTERIOR FINISH (BEARING ON STUDS)

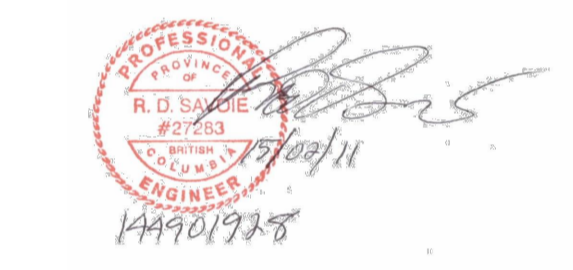
SEAL CABLE PENETRATIONS USING MASTIC

3 ANTENNA MOUNTING DETAIL
E101 N.T.S.



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CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

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Designed by/Concept par

CFM

Drawn by/Dessiné par

EH

PWSC Project Manager/Administrateur de Projets TPSGC

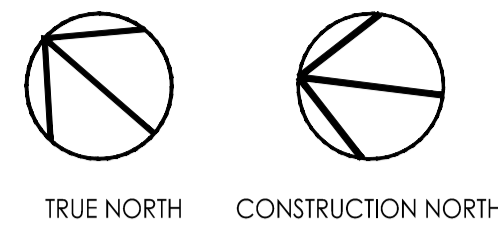
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SITE PLAN - EXISTING SHALLOW UTILITIES PLAN AND MINOR MODIFICATIONS

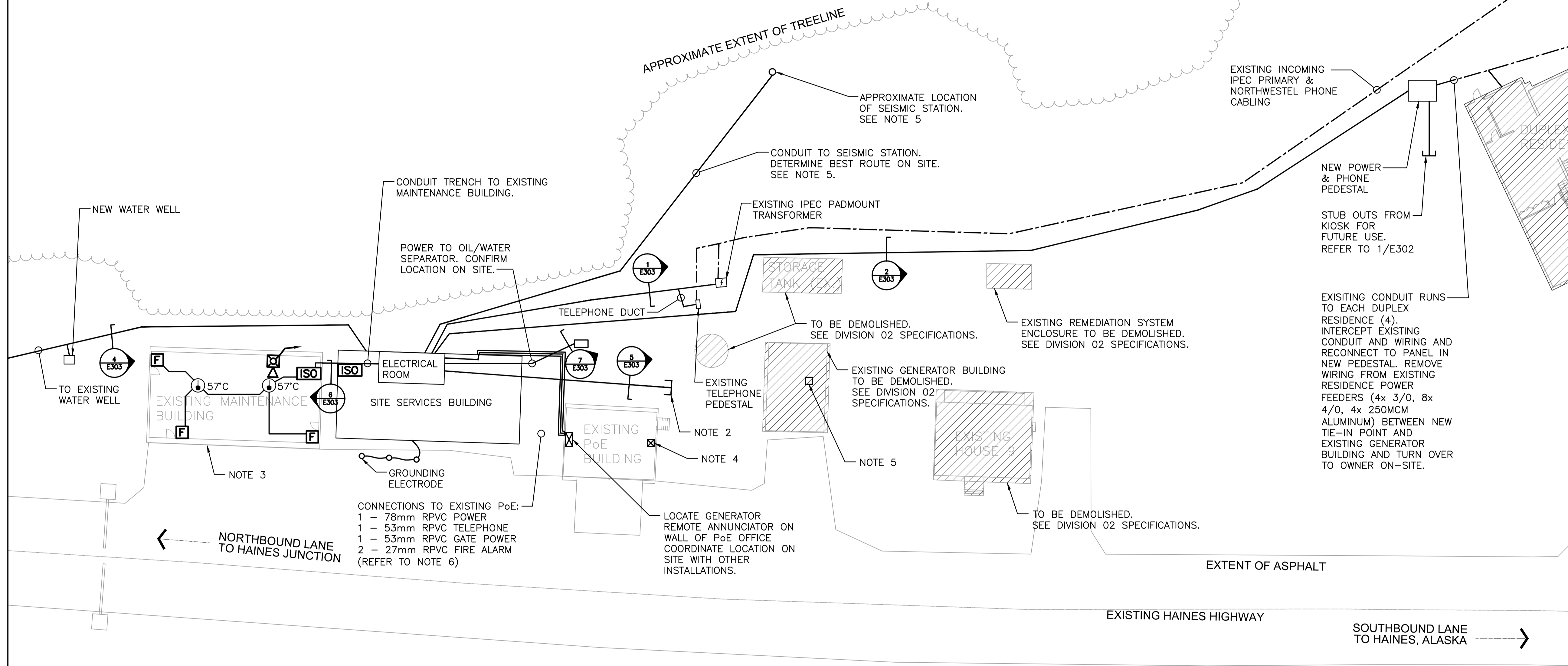
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R.071363.001	E101	0

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NOTES:

- LOCATIONS OF EXISTING SHALLOW UTILITIES ARE BASED ON AS-BUILT INFORMATION PROVIDED BY OTHERS. SITE CONDITIONS MAY NOT BE ACCURATELY REPRESENTED BY THESE DRAWINGS. THIS DRAWING DOES NOT REPRESENT ALL SITE UTILITIES. REFER TO G003
- EXTEND OUT TO LOCATION APPROXIMATELY 4000mm EAST OF SOUTH-EAST CORNER OF EXISTING PoE BUILDING. COORDINATE WITH ROCK PIT, SEPTIC FIELD, REMEDIATION EXCAVATION BOUNDARIES AND OTHER SITE WORKS. MARK END LOCATION ACCURATELY ON AS-BUILTS TO PERMANENT REFERENCE POINT. PROVIDE ABOVE-GRADE FLAG MARKING END POINT. CONDUIT TO BE EMT INSIDE OF BUILDING. SEE 1/E201
- PROVIDE NEW FIRE ALARM DEVICES AT APPROXIMATE LOCATIONS SHOWN AND CONNECT TO NEW FIRE ALARM SYSTEM ADDRESSABLE LOOP & SIGNAL CIRCUIT.

- APPROXIMATE LOCATION OF EXISTING SITE FIRE ALARM PANEL (NOTIFIER SYSTEM 500). PROVIDE THREE MONITORING MODULES (TROUBLE, SUPERVISORY, ALARM) IN THE EXISTING PoE BUILDING AND CONNECT TO THE SIGNAL OUTPUT RELAYS OF THE EXISTING F/A PANEL. CONNECT MODULES TO THE NEW SYSTEM DATA LOOP SUCH THAT TROUBLE, ALARM AND SUPERVISORY CONDITIONS ARE SIGNALLED TO THE NEW SYSTEM.
- RELOCATE EXISTING SEISMOMETER CONTROLLER FROM EXISTING GENERATOR BUILDING TO NEW SITE SERVICES BUILDING. PROVIDE NEW 63mm RPVC CONDUIT, TECK CABLES FOR ETHERNET, RS232 AND 2 #10 AWG. ALL WORK IN SEISMIC STATION VAULT TO BE COORDINATED WITH NATURAL RESOURCES CANADA.
- CONNECTIONS TO EXISTING PoE TO BE ROUTED IN OVERHEAD CABLE TRAY. TRAY SPECIFIED IN OTHER DIVISION.

1 SITE PLAN
E102 1:250

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	15/02/03

Client/client
CANADA BORDER SERVICES AGENCY

Project title/Titre du projet
PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

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Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC

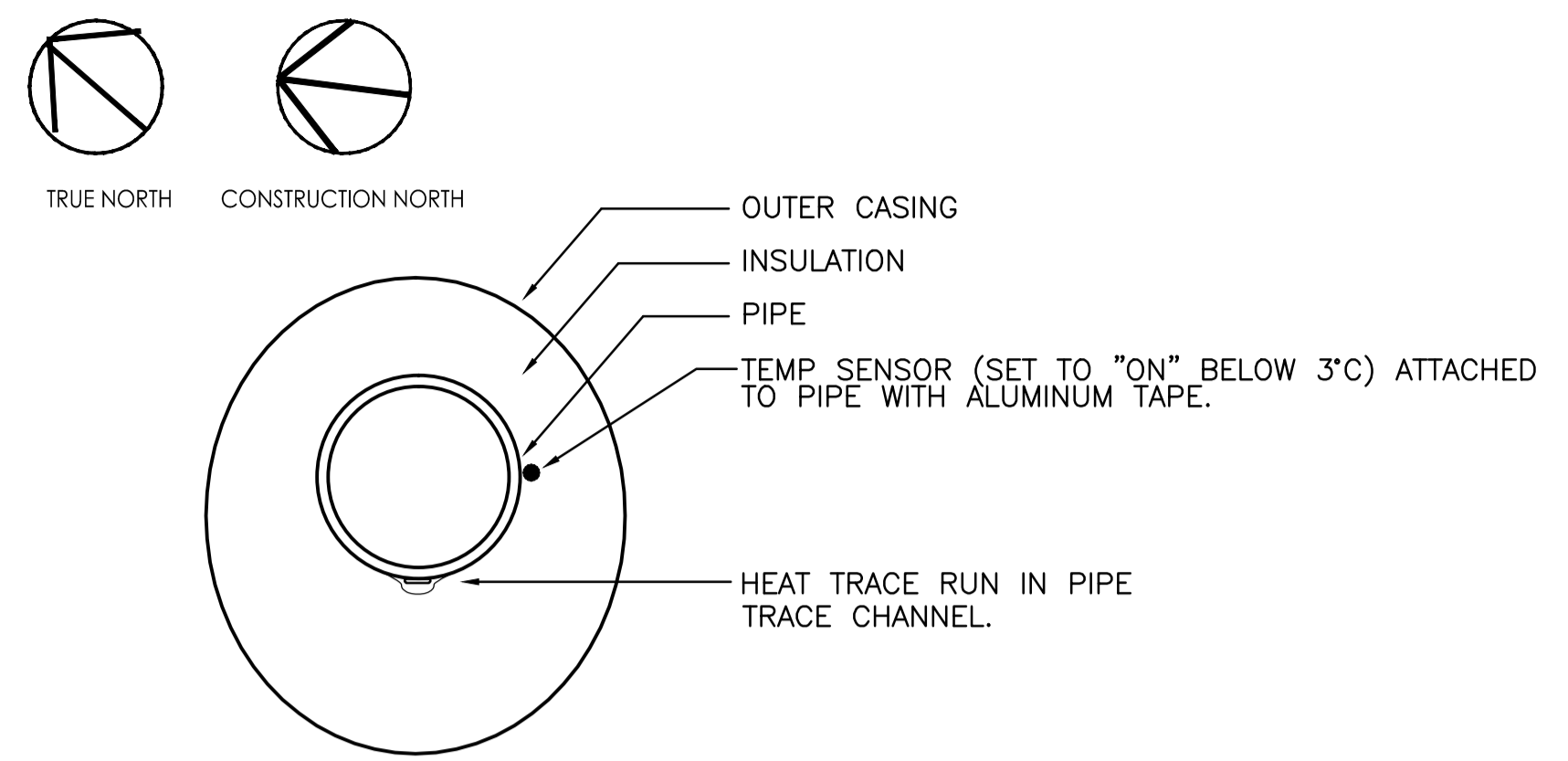
Drawing title/Titre du dessin
SITE PLAN - UTILITIES PLAN

Project No./No. du projet R.071363.001	Sheet/Feuille E102 OF	Revision no./La Révision no. 0
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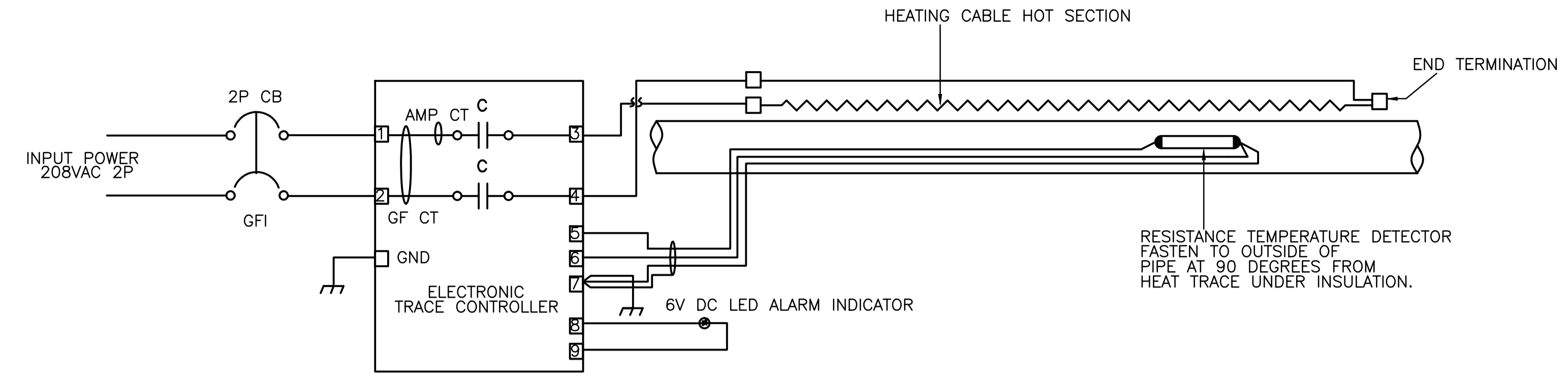
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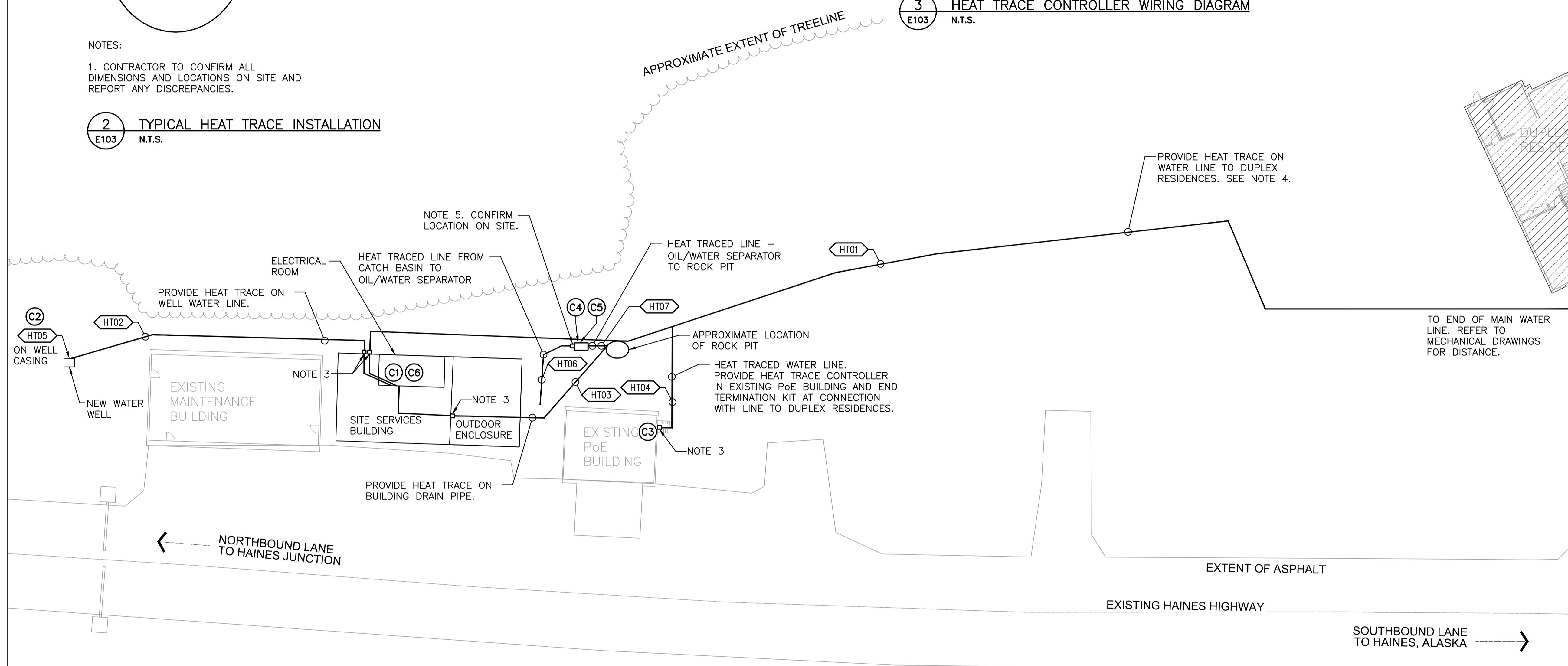


NOTES:
1. CONTRACTOR TO CONFIRM ALL DIMENSIONS AND LOCATIONS ON SITE AND REPORT ANY DISCREPANCIES.

2 TYPICAL HEAT TRACE INSTALLATION
E103 N.T.S.

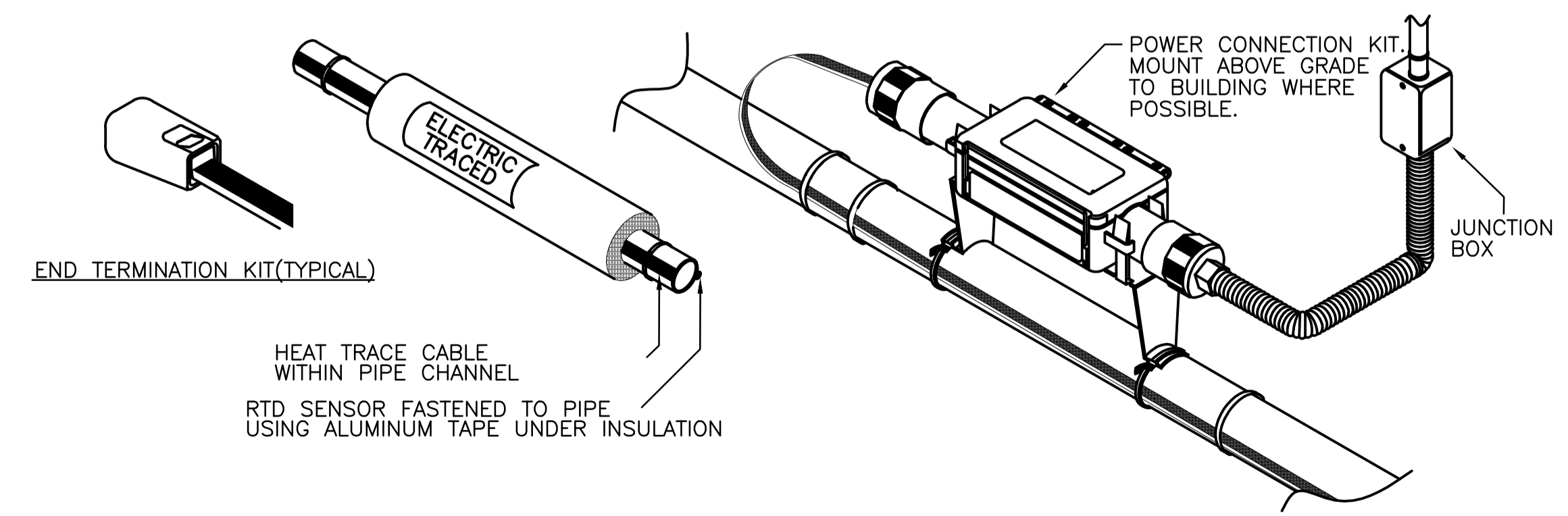


3 HEAT TRACE CONTROLLER WIRING DIAGRAM
E103 N.T.S.



NOTES:
1. THIS DRAWING DOES NOT REPRESENT ALL SITE UTILITIES. REFER TO G003
2. COORDINATE LOCATIONS WITH MECHANICAL DRAWINGS.
3. HEAT TRACE POWER CONNECTION (COLD LEAD) KITS MOUNTED ON BUILDING EXTERIOR. HEAT TRACE MUST NOT PENETRATE OR BE IN CONTACT WITH ANY BUILDING ENVELOPE. PROVIDE JUNCTION BOXES ON BUILDING EXTERIOR FOR COLD LEAD CONNECTIONS.
4. PROVIDE TRACE ALONG MAIN WATER SUPPLY LINE TO END (EXCLUDING FINAL SERVICE LINES TO RESIDENCES). PRIOR TO INSTALLATION, DETERMINE EXTENT OF TRACE COMING FROM RESIDENCES AND USE EXISTING HEAT TRACE WHERE POSSIBLE.

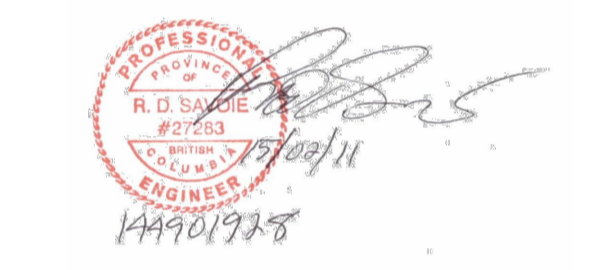
1 SITE PLAN
E103 1:250



4 TYPICAL HEAT TRACE INSTALLATION
E103 N.T.S.

CONTROLLER	CONTROLLER LOCATION	CIRCUIT(S) CONTROLLED	CONTROLLER TYPE
C1	SERVICES BUILDING ELECTRICAL ROOM	HT01	INTELLIGENT
C2	NEW WATER WELL HOUSING	HT05	AMBIENT SENSING MECHANICAL
C3	EXISTING PoE	HT04	REMOTE SENSING MECHANICAL
C4	OIL/WATER SEPARATOR	HT06	REMOTE SENSING MECHANICAL
C5	OIL/WATER SEPARATOR	HT07	REMOTE SENSING MECHANICAL
C6	SERVICES BUILDING ELECTRICAL ROOM	HT02, HT03	INTELLIGENT

5 HEAT TRACE CONTROLLER SCHEDULE
E103 N.T.S.



Revision/Revisión	Description/Description	Date/Date
0	ISSUED FOR TENDER	15/02/08

Client/client: CANADA BORDER SERVICES AGENCY

Project title/Titre du projet: PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

Consultant Signature Only
Designed by/Concept par: CFM
Drawn by/Dessiné par: EH
PWGSC Project Manager/Administrateur de Projets TPSGC
Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSGC

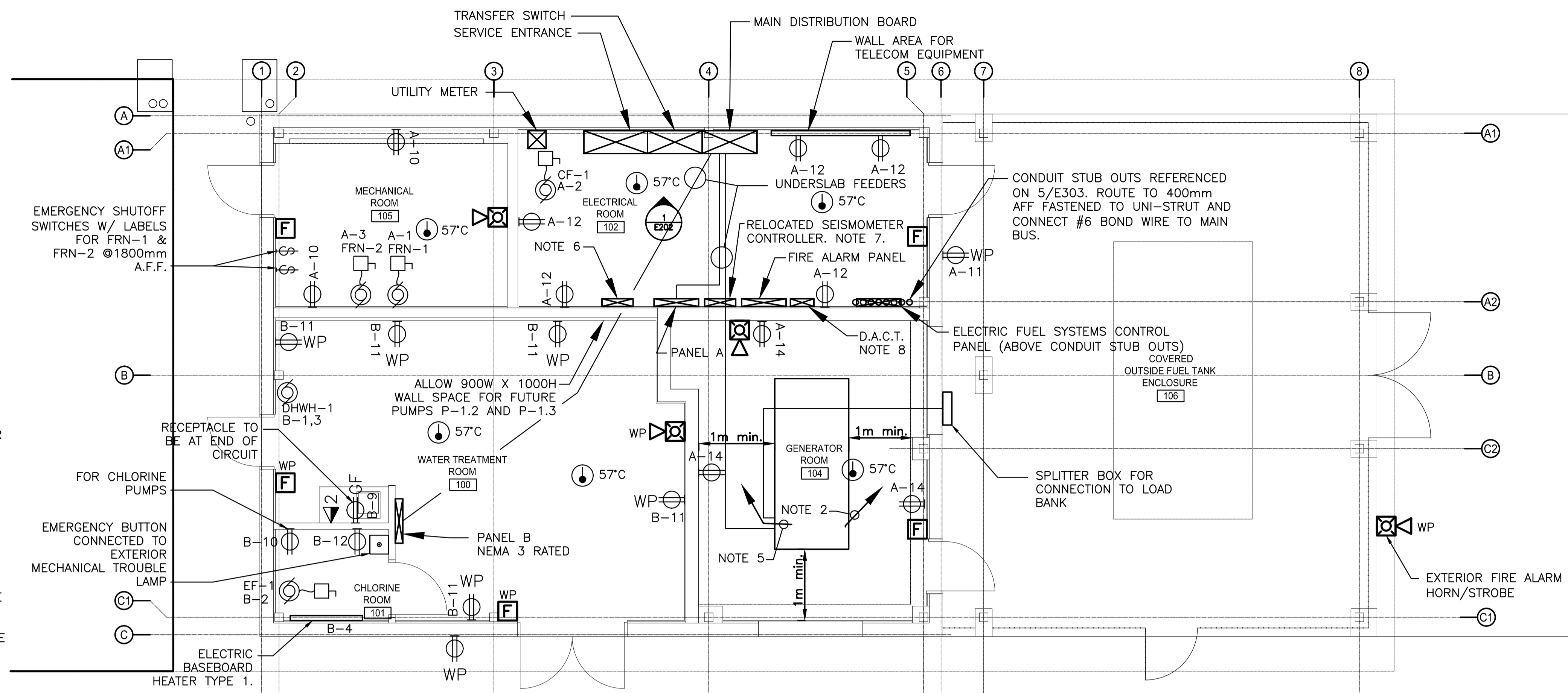
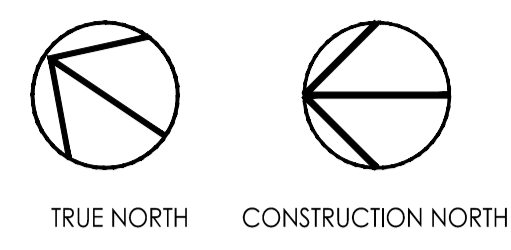
Drawing title/Titre du dessin: SITE PLAN - HEAT TRACE

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.071363.001	E103 OF	0



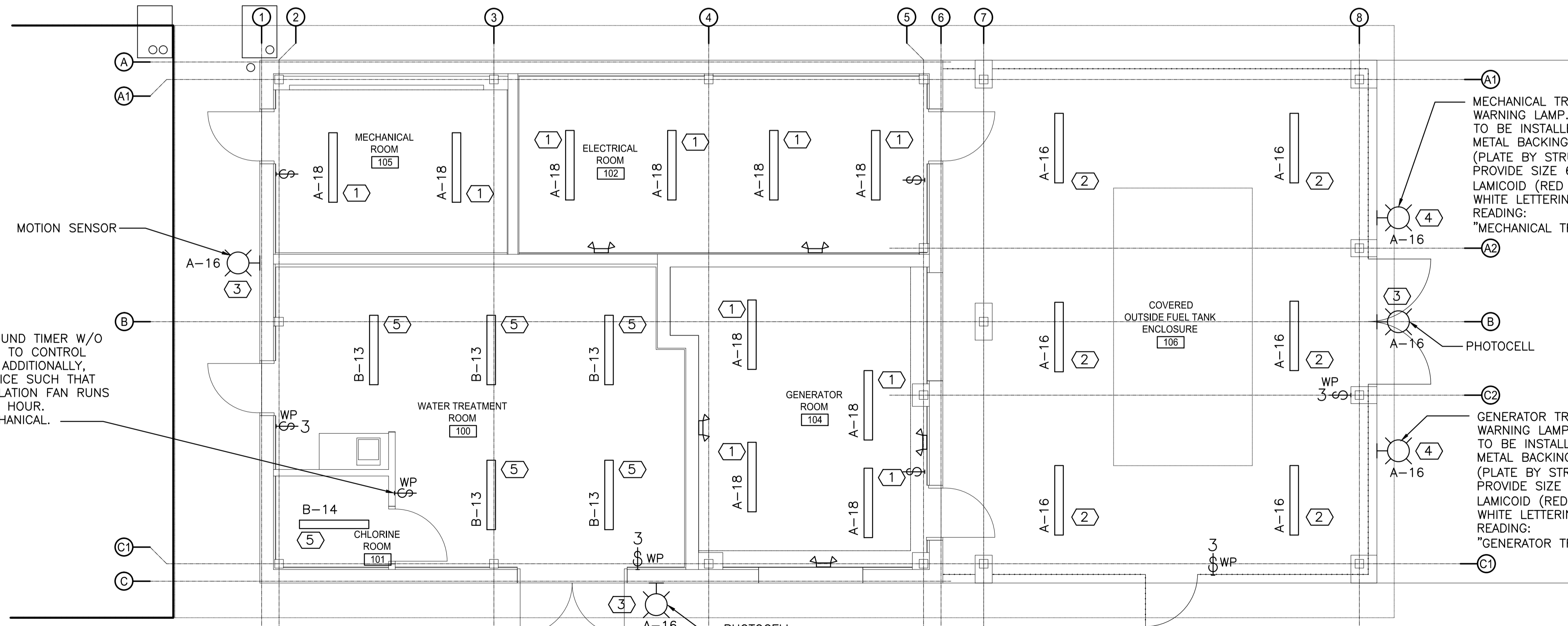
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1 SITE SERVICES BUILDING - POWER PLAN
E201 1:50

- NOTES:
- COORDINATE WITH DUCTWORK AND MECHANICAL EQUIPMENT AND ADJUST LAYOUT ON SITE.
 - CONDUIT AND CABLING FOR GENERATOR REMOTE ANNUNCIATOR TO EXISTING P&E BUILDING.
 - ALL INSTALLATIONS IN CHLORINE ROOM ARE TO BE SUITABLE FOR A CORROSIVE ENVIRONMENT.
 - ALL INSTALLATIONS IN WATER TREATMENT ROOM ARE TO BE SUITABLE FOR WET ENVIRONMENT.
 - PROVIDE COMMON GENERATOR TROUBLE SIGNAL TO FIRE ALARM CONTROL PANEL THROUGH MONITORING MODULE. GENERATOR COMMON TROUBLE TO INCLUDE ALL GENERATOR POINTS REQUIRED BY CAN/CSA-C282.
 - HEAT TRACE CONTROLLERS C1 & C6.
 - PROVIDE POWER AND TELEPHONE LINE CONNECTION.
 - PROVIDE TWO STRUCTURED WIRING LINES FROM TELEPHONE AREA OF TELECOMM BOARD TO D.A.C.T. IN SEPARATE 21mm CONDUITS.



2 SITE SERVICES BUILDING - LIGHTING PLAN
E201 1:50

30 MINUTE SPRING WOUND TIMER W/O HOLD FUNCTION. TIMER TO CONTROL BOTH LIGHT AND FAN. ADDITIONALLY, PROVIDE CONTROL DEVICE SUCH THAT CHLORINE ROOM VENTILATION FAN RUNS FOR 5 MINUTES EVERY HOUR. COORDINATE WITH MECHANICAL.

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	15/02/08

Client/client

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

Consultant Signature Only

Designed by/Concept par
CFM

Drawn by/Dessiné par
EH

PWGC Project Manager/Administrateur de Projets TPSCG

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSCG

Drawing title/Titre du dessin

SITE SERVICES BUILDING PLAN

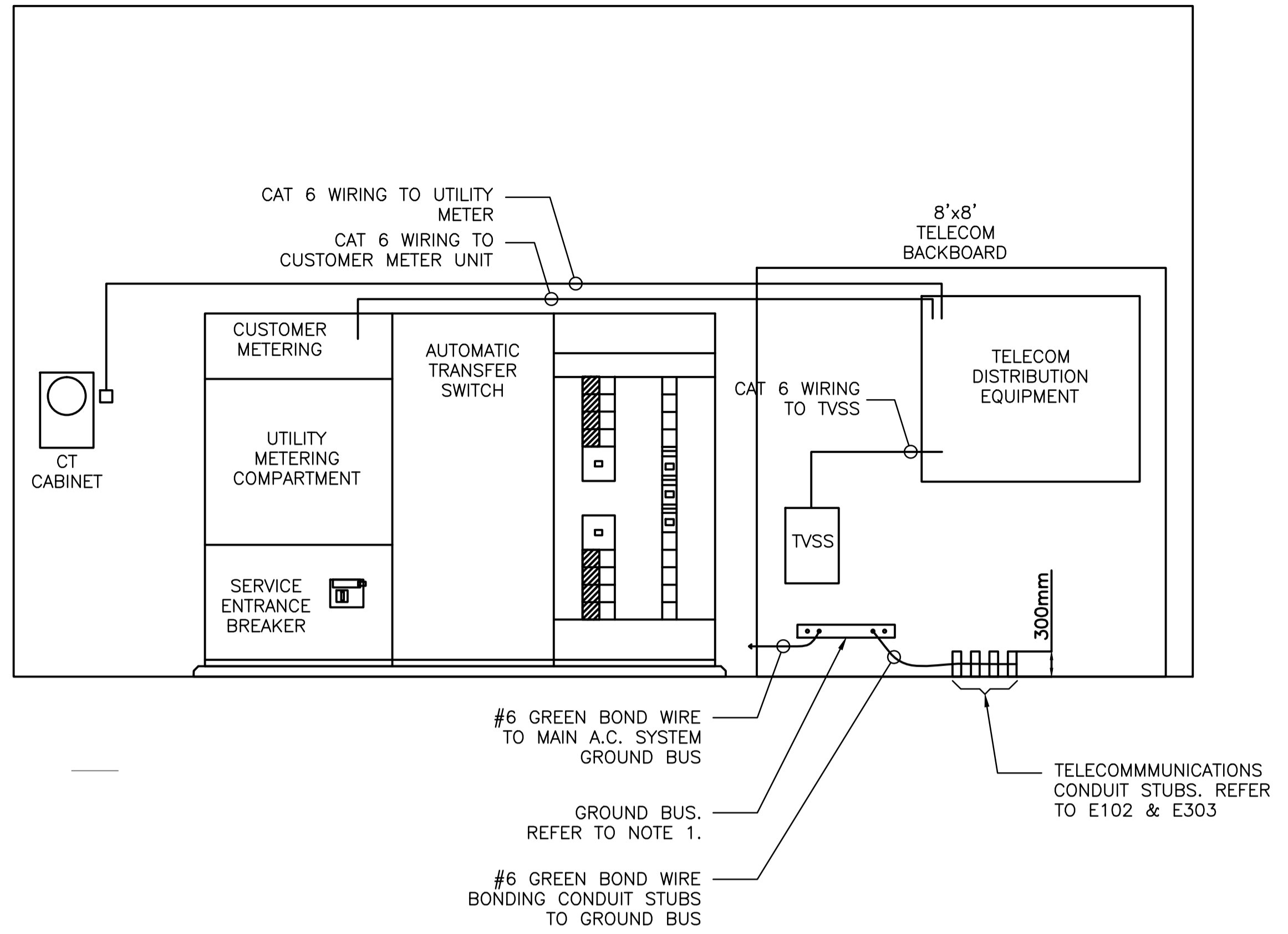
Project No./No. du projet R.071363.001	Sheet/Feuille E201 OF	Revision no./La Révision no. 0
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NOTES:
1. PROVIDE TELECOMMUNICATIONS GROUND BUS ON INSULATED STANDOFFS. SEE SPECIFICATIONS SECTION 26 05 28.

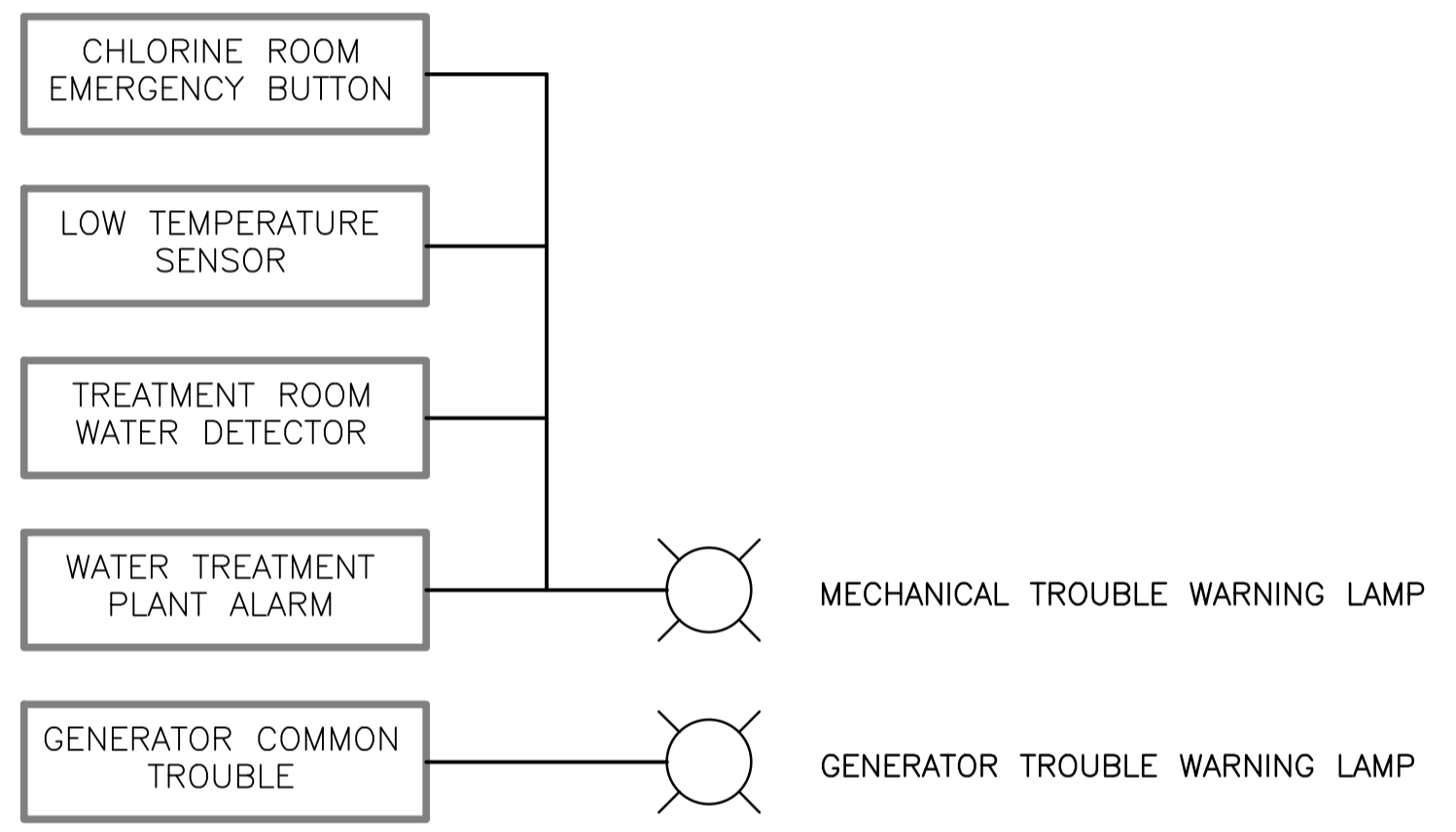
1 ELECTRICAL ROOM 102 - WEST ELEVATION
1:25

LEGEND	
	FLUORESCENT STRIP LUMINAIRE
	WALL MOUNTED EXTERIOR LUMINAIRE
	WALL MOUNTED LINE VOLTAGE SWITCH
	3 WAY WALL MOUNTED 3 WAY LINE VOLTAGE SWITCH
	DUPLEX RECEPTACLE
	FOURPLEX RECEPTACLE
	GROUND FAULT INTERRUPTER (GFI) DUPLEX RECEPTACLE
	5-20R DUPLEX RECEPTACLE
	5-20R GROUND FAULT INTERRUPTER (GFI) DUPLEX RECEPTACLE
	SPECIAL RECEPTACLE (TYPE AS INDICATED)
	STRUCTURED WIRING OUTLET (# DENOTES NUMBER OF CABLES)
	ELECTRIC MOTOR
	DISCONNECT SWITCH
	WALL MOUNTED EMERGENCY LIGHTS WITH 2 HOUR BATTERY PACK
	CEILING MOUNTED EMERGENCY LIGHTS WITH 2 HOUR BATTERY PACK
	PUSHBUTTON
	FIRE ALARM FIXED TEMPERATURE HEAT DETECTOR
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM HORN/STROBE
	FIRE ALARM ISOLATION MODULE
	PANEL BOARD
	HEAT TRACE CIRCUIT IDENTIFIER
	HEAT TRACE CONTROLLER IDENTIFIER

2 ELECTRICAL LEGEND
N.T.S.

LUMINAIRES		
TYPE	DESCRIPTION	VOLTAGE
Ⓒ	CEILING SURFACE-MOUNTED, LINEAR L.E.D. FIXTURE WITH LUMEN OUTPUT OF 5000 +/- 10% LUMENS AND LENGTH OF APPROXIMATELY 1200MM. WIRE GUARD FOR PROTECTION OF LIGHT EMITTERS.	120V
Ⓒ	EXTERIOR-RATED, CHAIN SUSPENDED, LINEAR L.E.D. FIXTURE WITH LUMEN OUTPUT OF 5000 +/- 10% LUMENS AND LENGTH OF APPROXIMATELY 1200MM. LEXAN OR TEMPERED GLASS LENS WITH GASKET. SUITABLE FOR OPERATION AT -35°C	120V
Ⓒ	WALL-MOUNTED EXTERIOR L.E.D. WALL PACK WITH SEALED TEMPERED GLASS OR LEXAN LENS, ALUMINUM HOUSING, POLYESTER POWDER COAT FINISH. HIGH CUT-OFF, DARK-SKY COMPLIANT. OUTPUT OF 4000 LUMENS +/- 10%. WITH INTEGRAL PHOTOCELL OR MOTION SENSOR AS INDICATED.	120V
Ⓒ	WALL-MOUNTED EXTERIOR L.E.D. STEADY BURN WARNING LIGHT WITH RED LENS, FULLY SEALED. OUTPUT OF 500 LUMENS +/- 10%.	120V
Ⓒ	CEILING SURFACE-MOUNTED, LINEAR L.E.D. FIXTURE WITH LUMEN OUTPUT OF 5800 LUMENS +/- 10% AND LENGTH OF APPROXIMATELY 1200MM. SUITABLE FOR WET AND CORROSIVE ENVIRONMENTS. NON-METALLIC HOUSING AND SEALED LENS. COLOUR TEMPERATURE OF 4000K.	120V

3 LUMINAIRE SCHEDULE
E202 N.T.S.



4 WARNING LIGHTS BLOCK DIAGRAM
N.T.S.

TYPE	DESCRIPTION
1	1450W, 120VAC, INTEGRAL THERMOSTAT, ELECTRIC BASEBOARD HEATER SUITABLE FOR CORROSIVE ENVIRONMENT, AND WITH TEMPERATURE RANGE THAT INCLUDES 10°C TO 25°C.
2	800W, 120VAC, STRIP HEATER WITH INTEGRAL THERMOSTAT WITH TEMPERATURE RANGE THAT INCLUDES 5°C TO 25°C.

5 ELECTRIC BASEBOARD HEATER SCHEDULE
N.T.S.

Revision/Revision	Description/Description	Date/Date
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Client/client

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

Consultant Signature Only

Designed by/Concept par **CFM**

Drawn by/Dessiné par **EH**

PWGSC Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin

SITE SERVICES BUILDING DETAILS

Project No./No. du projet R.071363.001	Sheet/Feuille E202 OF	Revision no./La Révision no. 0
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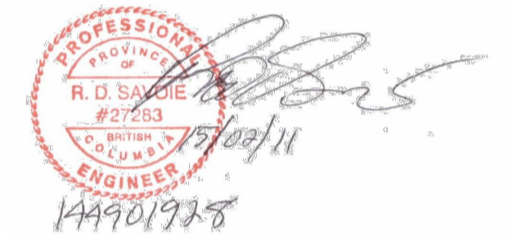


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EQUIPMENT	LOCATION	HP	VOLTS	PHASE	FLA	FEEDER	BREAKER	CONTROL
FRN-1	MECHANICAL ROOM	.5	120V	1	12	2 #12 CU R90 + BOND IN 16mm GALV. STEEL CONDUIT	1P15	LRD
FRN-2	MECHANICAL ROOM	.5	120V	1	12	2 #12 CU R90 + BOND IN 16mm GALV. STEEL CONDUIT	1P15	LRD
EF-1	CHLORINE ROOM	.1667	120V	1	3.4	2 #12 CU R90 + BOND IN 16mm GALV. STEEL CONDUIT	1P15	MMP/R/HOA
CF-1	ELECTRICAL ROOM	.1113	120V	1	.77	2 #12 CU R90 + BOND IN 16mm GALV. STEEL CONDUIT	1P15	MMP/R/HOA
P-1.1	WELL	3	208V	3	11.9	2 #12 CU R90 + BOND IN 16mm GALV. STEEL CONDUIT	3P15	CMS
DHWH-1	WATER TREATMENT ROOM	-	208V	1	14.5	2 #10 CU R90 + BOND IN 21mm GALV. STEEL CONDUIT	2P30	BREAKER ONLY
FUEL PUMP CONTROL PANEL	ELECTRICAL ROOM	-	120V	1	2	2 #12 CU R90 + #12 GND. IN 21mm GALV. STEEL CONDUIT	1P15	BREAKER ONLY
FUEL PUMP CONTROL PANEL: STP-1 & -2 MOTOR STARTERS	ELECTRICAL ROOM	.333	208V	1	4	2 #12 CU R90 + #12 GND. IN 21mm GALV. STEEL CONDUIT	2P15	BREAKER ONLY
OIL WATER SEPARATOR - HEAT TRACE	EXTERIOR	-	208V	1	15	2 #19 CU R90 + #12 GND. IN 21mm GALV. STEEL CONDUIT	2P30	BREAKER ONLY
OIL WATER SEPARATOR OIL LEVEL MONITOR	ELECTRICAL ROOM	-	120V	1	-	2 #12 CU R90 + #12 GND. IN 21mm GALV. STEEL CONDUIT	1P15	BREAKER ONLY
LEAK DETECTION PANEL	ELECTRICAL ROOM	-	120V	1	2	2 #12 CU R90 + #12 GND. IN 21mm GALV. STEEL CONDUIT	1P15	BREAKER ONLY
HEATING OIL TANK FILL CONTROL PANEL	MECHANICAL ROOM	-	120V	1	2	2 #12 CU R90 + #12 GND. IN 21mm GALV. STEEL CONDUIT	1P15	BREAKER ONLY

NOTES:

1. EQUIPMENT SCHEDULE IS FOR ESTIMATING PURPOSES ONLY. CONFIRM ALL MOTOR FULL LOAD CURRENTS WITH NAMEPLATES AND SIZE MOTOR DISCONNECTS, BREAKERS, FUSES, FEEDERS AND OVERLOADS ACCORDINGLY.
2. COORDINATE ALL INFORMATION WITH RELEVANT DISCIPLINES INCLUDING MECHANICAL AND FUEL OIL.

CONTROL DEVICE LEGEND:

LRD - LOAD RATED DISCONNECT
MAG - MAGNETIC STARTER
CMS - COMBINATION MAGNETIC STARTER WITH DISCONNECT
/R - WITH LOAD RATED RELAY
/HOA - WITH H-O-A SWITCH
/K - KEYED
/SS - SOFT START
VFD - VARIABLE FREQUENCY DRIVE
MMP - MANUAL MOTOR PROTECTION

1 MOTOR/EQUIPMENT LIST
E203 N.T.S.

FROM	TO	LOCATION	DESCRIPTION
PUMP CONTROL PANEL - STP STARTERS M1 & M2	SUBMERGED TURBINE PUMPS AND SOLENOID VALVES	TOP OF MAIN STORAGE TANK	2 X 2 #12 R90 COPPER+ #12 GND IN 21MM GALV. STEEL CONDUITS
PUMP CONTROL PANEL	GENERATOR DAY TANK LEVEL ALARM SWITCH	TOP OF DAY TANK IN GENERATOR ROOM	6 #14 R90 COPPER IN 21MM GALV. STEEL CONDUIT
PUMP CONTROL PANEL	GENERATOR DAY TANK PUMP START/STOP LEVEL SWITCH	TOP OF DAY TANK IN GENERATOR ROOM	4 #14 R90 COPPER IN 21MM GALV. STEEL CONDUIT
PUMP CONTROL PANEL	GENERATOR DAY TANK FILL SOLENOID VALVE	ON FUEL PIPING AT EAST END OF MAIN STORAGE TANK	2 #14 R90 COPPER IN 16MM GALV. STEEL CONDUIT
PUMP CONTROL PANEL	E-STOP PUSH BUTTON	ON FENCE SOUTH OF MAIN STORAGE TANK	2 #14 R90 COPPER IN 16MM GALV. STEEL CONDUIT
PUMP CONTROL PANEL - TANK FILL SELECTOR SWITCH	TANK FILL SOLENOID VALVES	ON FUEL PIPING AT EAST END OF MAIN STORAGE TANK	3X 2 #14 R90 COPPER IN 16MM GALV. STEEL CONDUIT
PUMP CONTROL PANEL	MAIN STORAGE TANK HIGH LEVEL SWITCH	TOP OF MAIN STORAGE TANK	2 #14 R90 COPPER IN 16MM GALV. STEEL CONDUIT
PUMP CONTROL PANEL	GENERATOR CONTROL PANEL	ENGINE SHUTDOWN RELAY (DAY TANK LOW LEVEL SHUTDOWN)	2 #14 R90 COPPER IN 16MM GALV. STEEL CONDUIT
PUMP CONTROL PANEL	REMOTE ALARM HORN, STROBE LIGHT AND ALARM SILENCE	SOUTH WEST CORNER OF MAIN STORAGE TANK AREA	6 #14 R90 COPPER IN 21MM GALV. STEEL CONDUIT
OIL WATER SEPARATOR OIL LEVEL MONITOR	OIL LEVEL SENSOR	IN OIL WATER SEPERATOR	2 PAIR #16 DIRECT BURIED ARMoured INSTRUMENTATION CABLE
OIL WATER SEPARATOR OIL LEVEL MONITOR RELAY	PUMP CONTROL PANEL	IN ELECTRICAL ROOM	RELAY OUTPUT. 2 #14 R90 COPPER IN 21MM GALV. STEEL CONDUIT
U/G PIPING LEAK DETECTION PANEL	EXISTING PIPING LEAK DETECTION PANEL FOR SUMPS #1-4	IN DUPLEX RESIDENCE (LOCATION UNKNOWN)	4 X #18 1 PAIR SHIELDED INSTRUMENTATION CABLES IN 27MM GALV. STEEL CONDUIT
U/G PIPING LEAK DETECTION PANEL	PIPING SUMP LEAK SENSOR	IN NEW INTERMEDIATE UNDERGROUND PIPING SUMP	1 X #18 1 PAIR SHIELDED INSTRUMENTATION CABLE IN 21MM GALV. STEEL CONDUIT
U/G PIPING LEAK DETECTION PANEL	PIPING SUMP LEAK SENSOR	IN NEW UNDERGROUND PIPING SUMP AT MAIN STORAGE TANK	1 X #18 1 PAIR SHIELDED INSTRUMENTATION CABLE IN 21MM GALV. STEEL CONDUIT
U/G PIPING LEAK DETECTION PANEL	FUTURE PIPING SUMP LEAK SENSOR	FUTURE CUSTOMS BUILDING PIPING SUMP	RUN SPARE 21MM GALV. STEEL CONDUIT TO INTERMEDIATE PIPING SUMP
LEAK DETECTION PANEL RELAYS	PUMP CONTROL PANEL	IN ELECTRICAL ROOM	RELAY OUTPUTS. 4 #14 R90 COPPER IN 21MM GALV. STEEL CONDUIT
GENERATOR CONTROL PANEL	GENERATOR FUEL SUPPLY LINE SOLENOID VALVE CONTROL PANEL	IN GENERATOR ROOM	12 VDC POWER TO SOLENOID VALVE CONTROL PANEL. 2 #12 R90 COPPER IN 16MM GALV. STEEL CONDUIT
GENERATOR FUEL SUPPLY LINE SOLENOID VALVE CONTROL PANEL	GENERATOR FUEL SUPPLY LINE SOLENOID VALVE	ON FUEL SUPPLY LINE AT TOP OF GENERATOR DAY TANK	12 VDC POWER TO SOLENOID VALVE. 2 #12 R90 COPPER IN 16MM GALV. STEEL CONDUIT

NOTES:

1. PROVIDE CONDUIT, CABLE, WIRING AND TERMINATIONS BETWEEN DEVICES AND EQUIPMENT AS IDENTIFIED ABOVE.
2. COORDINATE WITH FUEL OIL DRAWINGS AND SPECIFICATIONS.

2 FUEL OIL SYSTEM EQUIPMENT LIST
E203 N.T.S.

0	ISSUED FOR TENDER	15/02/08
Revision/	Description/Description	Date/Date

Client/client

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

Consultant Signature Only

Designed by/Concept par CFM

Drawn by/Dessiné par EH

PWGSC Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin

MOTOR/EQUIPMENT LISTS

Project No./No. du projet R.071363.001	Sheet/Feuille E203 OF	Revision no./La Révision no. 0
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Load Estimate		Demand (kW)
Existing Peak Demand		37
Site Services Building	Area	5
	Mechanical	2
	Water Treatment (est)	8
Future PoE Building	Area	12
	Mechanical	
New Well	Area	0
	Mechanical	4
Heat Trace		6
Fuel & Misc		9
Future Site Lighting		3
Total		86
80% Service Factor		107
Amps (@ 208V, 3Ø)		298

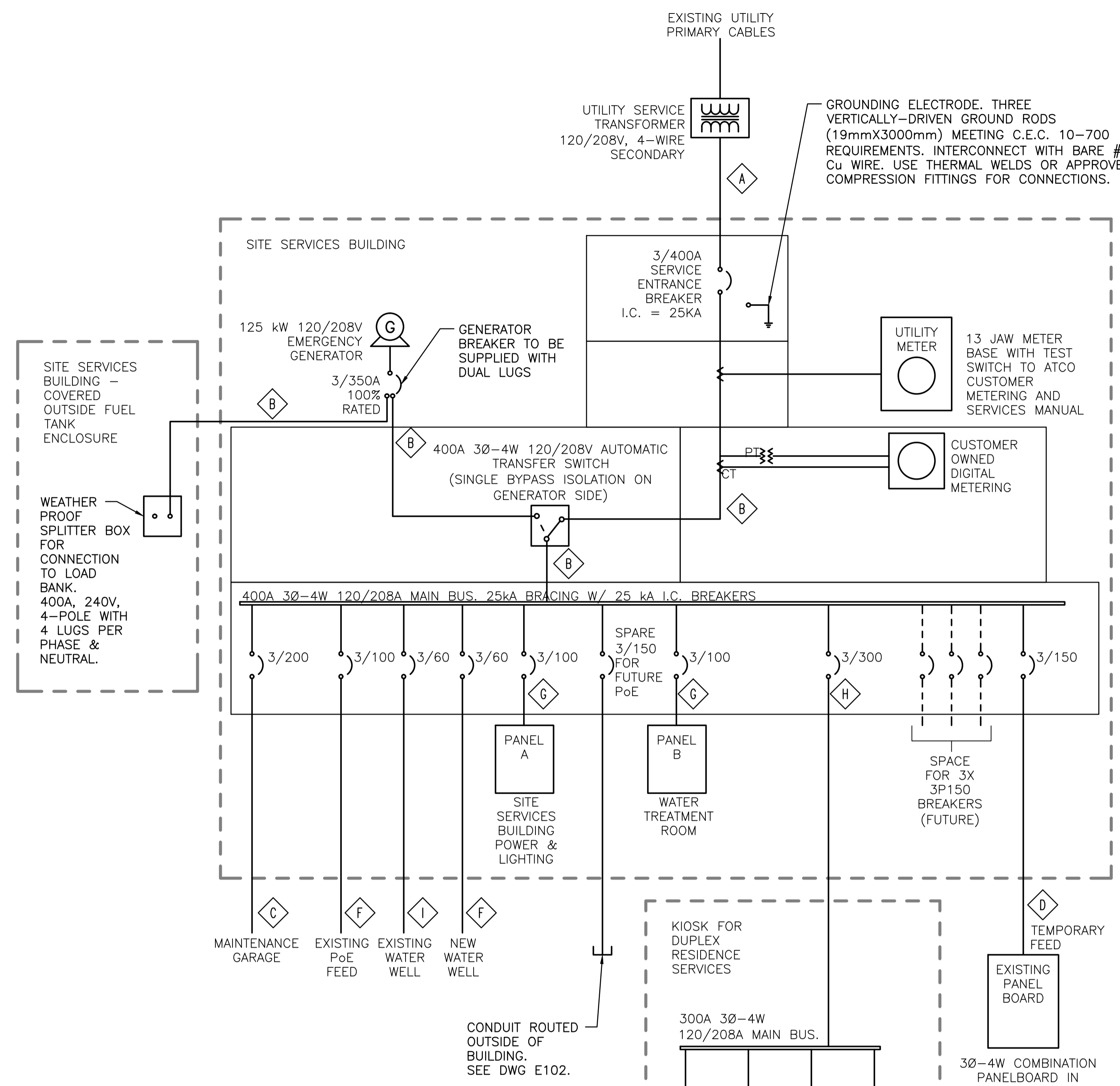
3 LOAD ESTIMATE
E301 N.T.S.

PANEL A											
CIRC.	BRKR	WATTS			DESCRIPTION	DESCRIPTION	WATTS			BRKR	CIRC
		A	B	C			A	B	C		
1	1P15	375			FRN-1	CF-1	100			1P15	2
3	1P15		375		FRN-2			1500		2P30	4
5				750		OIL WATER SEPARATOR HEAT			1500		6
7	3P15				P-1.1	MECHANICAL PANELS	400			1P15	8
9				750		MECH. ROOM PLUGS		300		1P15	10
11	1P15					ELEC. ROOM PLUGS			750	1P15	12
13	2P15	125				GEN. ROOM PLUGS	450			1P15	14
15			125			EXTERIOR & FUEL ENCL. LIGHTS		700		1P15	16
17	1P15				SPARE	MECH/GEN/ELEC ROOM LIGHTS			750	1P15	18
19	2P60	2700			HEAT TRACE - C1 (GFI)	HEAT TRACE - C2 (GFI)	75			2P15	20
21								75			22
23	2P15			200	HEAT TRACE - C4&C5 (GFI)	HEAT TRACE - C6 (GFI)			800	2P30	24
25							800				26
27	1P15				SPARE	SPARE				1P15	28
29	1P15				SPARE	SPARE				1P15	30
31					SPACE	SPACE					32
33					SPACE	SPACE					34
35					SPACE	SPACE					36
37					SPACE	SPACE					38
39					SPACE	SPACE					40
41					SPACE	SPACE					42
TOTAL		4150	3950	1100			1825	2575	3800	TOTAL	
PHASE A TOTAL =											
PHASE B TOTAL =											
PHASE C TOTAL =											
PANEL TOTAL =		17400			@ 120/208 VOLTS 3 PHASE		48.3 AMP				

4 PANEL A SCHEDULE
E301 N.T.S.

PANEL B											
CIRC.	BRKR	WATTS			DESCRIPTION	DESCRIPTION	WATTS			BRKR	CIRC
		A	B	C			A	B	C		
1	2P30	1500			DHWH-1	EF-1	125			1P15	2
3			1500			BASEBOARD HEATER		1450		1P20	4
5	2P15			560	P-1.2 (FUTURE)	P-1.3 (FUTURE)			560	2P15	6
7							560				8
9	1P15		300		MECHANICAL CONTROL	CHLORINE PUMPS		35		1P15	10
11	1P15				WATER TREATMENT PLUGS	CHLORINE ROOM PLUGS			150	1P15	12
13	1P15	375			WATER TREATMENT LIGHTS	CHLORINE ROOM LIGHTS	75			1P15	14
15	1P15				SPARE	SPARE				1P15	16
17	1P15				SPARE	SPARE				1P15	18
19					SPACE	SPACE					20
21					SPACE	SPACE					22
23					SPACE	SPACE					24
25					SPACE	SPACE					26
27					SPACE	SPACE					28
29					SPACE	SPACE					30
31					SPACE	SPACE					32
33					SPACE	SPACE					34
35					SPACE	SPACE					36
37					SPACE	SPACE					38
39					SPACE	SPACE					40
41					SPACE	SPACE					42
TOTAL		2435	1800	1460			760	1485	710	TOTAL	
PHASE A TOTAL =		3195									
PHASE B TOTAL =		3285									
PHASE C TOTAL =		2170									
PANEL TOTAL =		8650			@ 120/208 VOLTS 3 PHASE		24.0 AMP				

5 PANEL B SCHEDULE
E301 N.T.S.



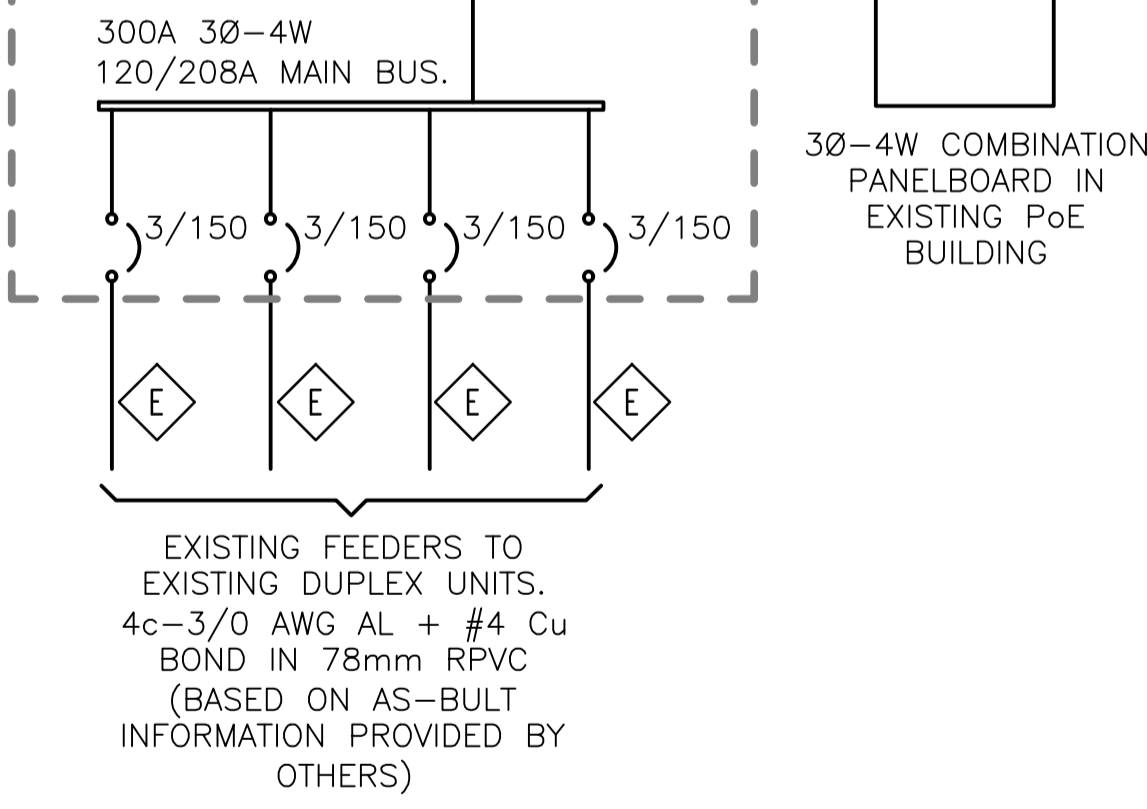
1 SINGLE LINE DIAGRAM
E301 N.T.S.

CONDUCTOR SCHEDULE							
	VOLTAGE (V)	DISTANCE (m)	PARALLEL RUNS	AWG/kc mil	# COND	BOND	Conduit / Cable Metric
A	120/208	40	2	3/0	4	#3	53
B	120/208	5	2	3/0	4	#3	53
C	120/208	30	1	3/0	4	#6	78
D	120/208	45	1	1/0	4	#6	TECK
E	120/208	60-100		EXISTING. SEE 1/E301			
F	120/208	40	1	#6	4	#8	35
G	120/208	<20	1	#3	4	#6	35
H	120/208	130	1	500	4	#3	78
I	120/208	90	1	#6	4	#8	TECK

1. DISTANCES IN THE TABLE ABOVE ARE APPROXIMATE. VERIFY REQUIRED CABLE LENGTHS PRIOR TO ORDERING.

2. WHERE CONDUIT IS RUN BOTH IN BUILDINGS AND UNDERGROUND, EMT TO BE RUN IN BUILDING AND RPVC WHERE UNDERGROUND EXCEPT WHERE INDICATED OTHERWISE.

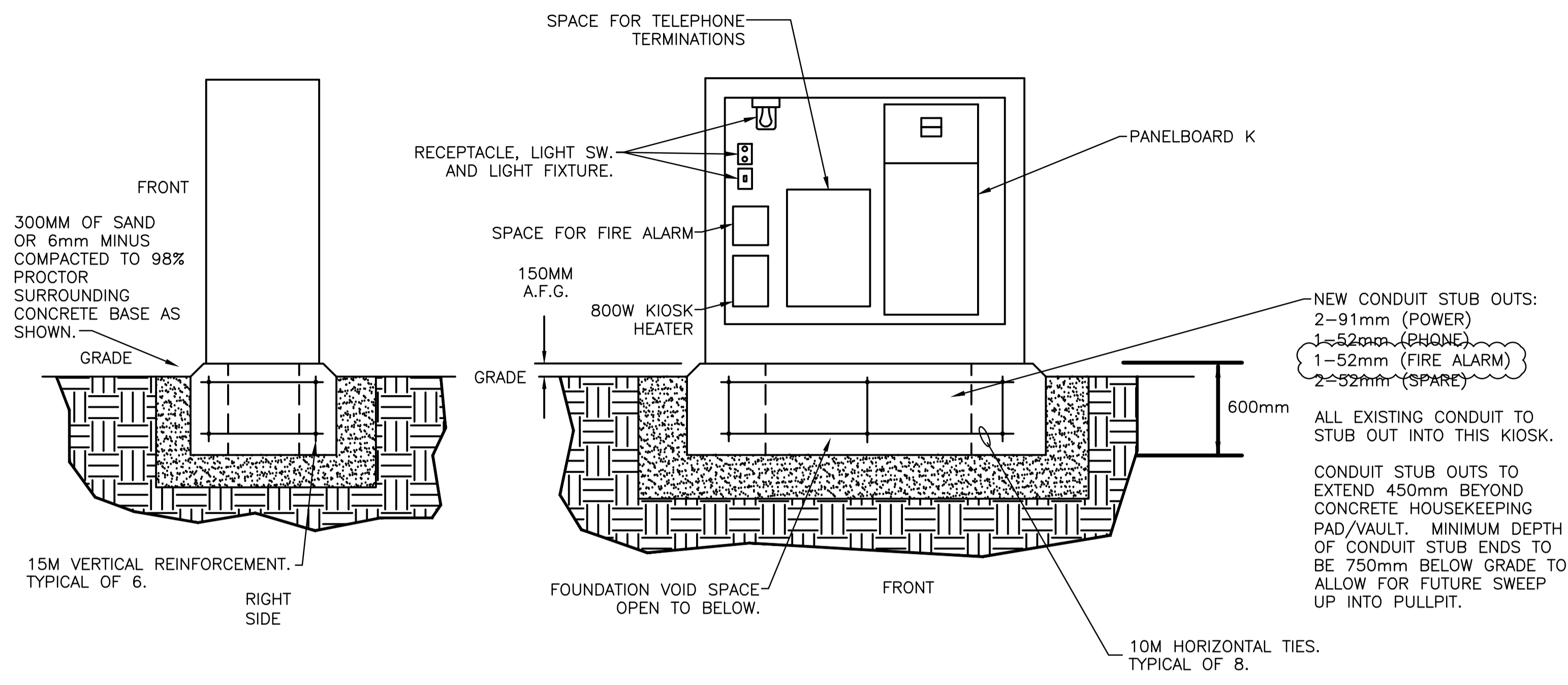
2 CONDUCTOR SCHEDULE
E301 N.T.S.





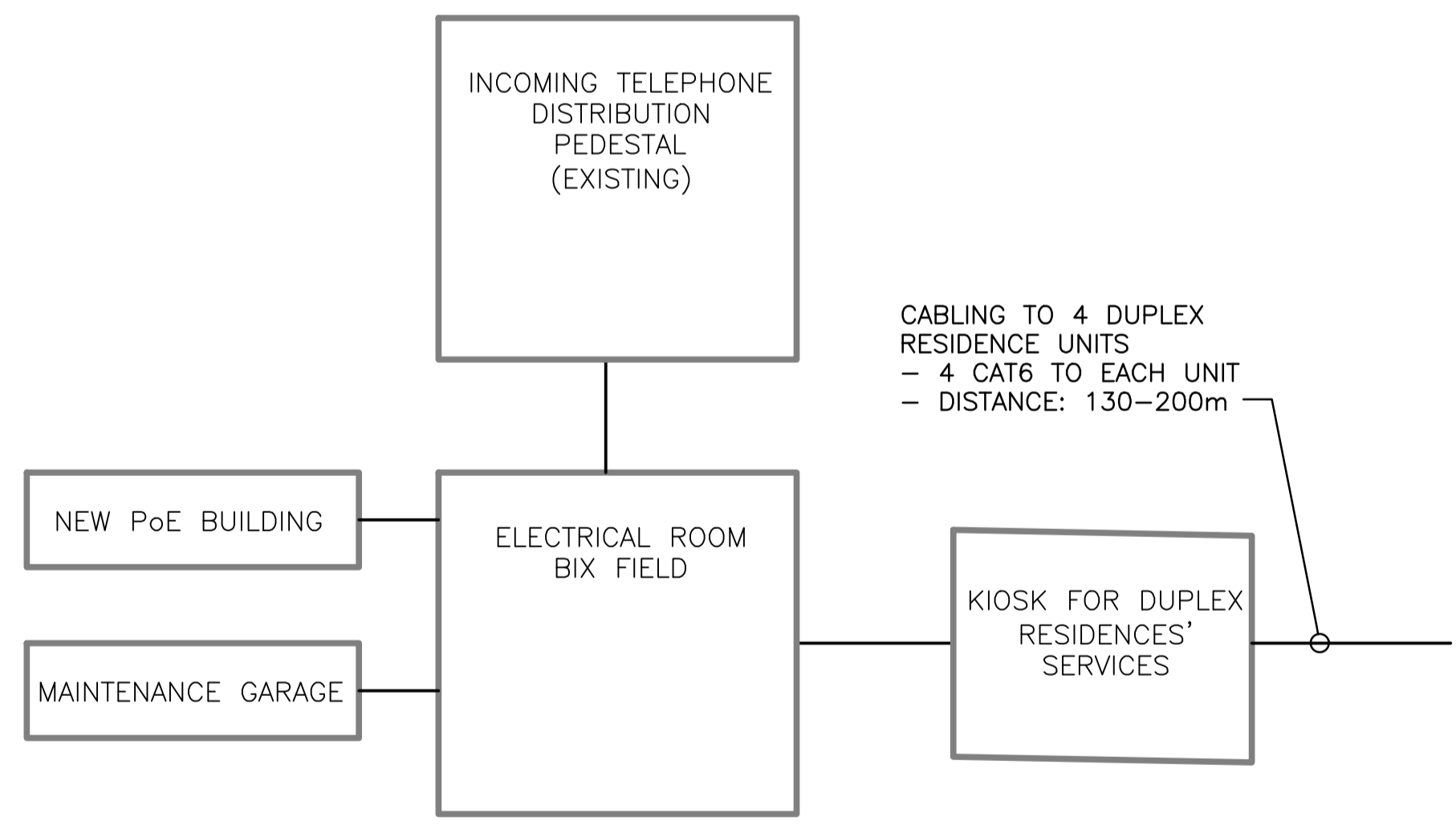
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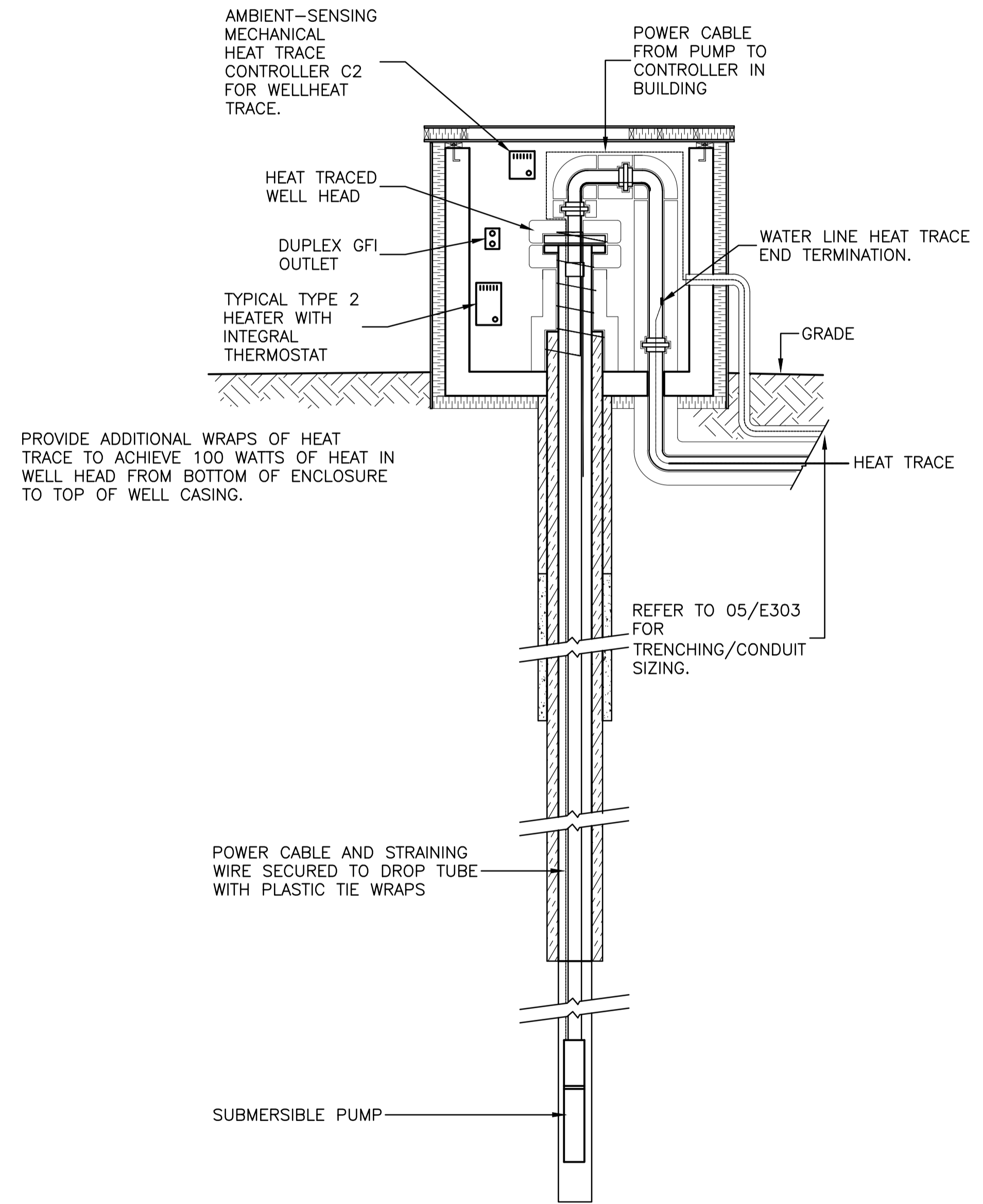


NOTES:
1. SIZE KIOSK AND BASE TO ACCOMMODATE EQUIPMENT SHOWN.

1 RESIDENCES UTILITY PEDESTAL DETAILS
E302 NTS



2 TELEPHONE NETWORK BLOCK DIAGRAM
E302 NTS



3 WELL DETAILS
E302 NTS

PROFESSIONAL
R.D. SAGE
#27663
REGISTERED
ENGINEER
149901938

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CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

**PLEASANT CAMP PORT OF ENTRY
TENDER A
SITE SERVICES & SITE SERVICES BUILDING**

Consultant Signature Only

Designed by/Concept par
CFM

Drawn by/Dessiné par
EH

PWGSC Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin

ELECTRICAL DETAILS

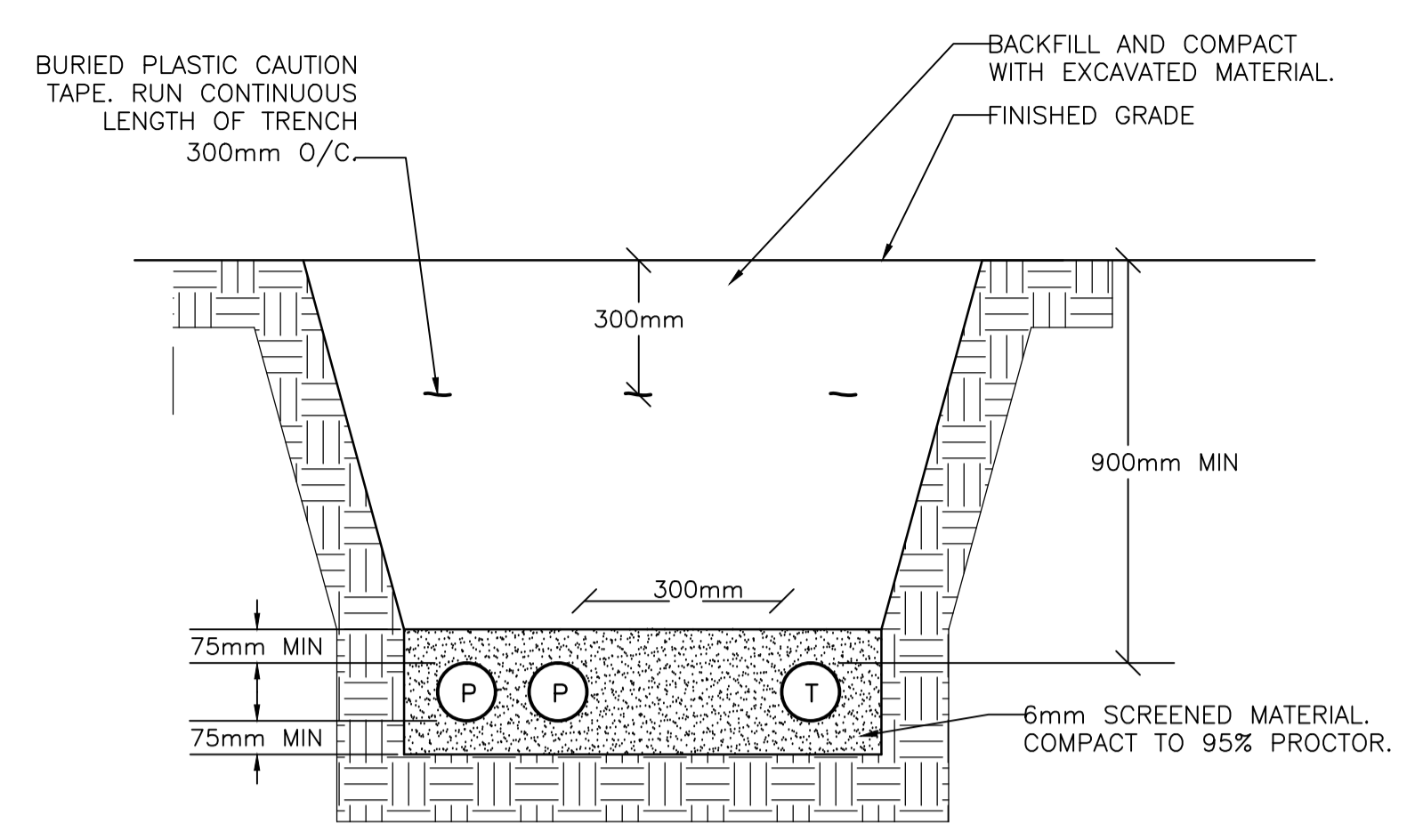
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.071363.001	E302 OF	0



Stantec Architecture Ltd.

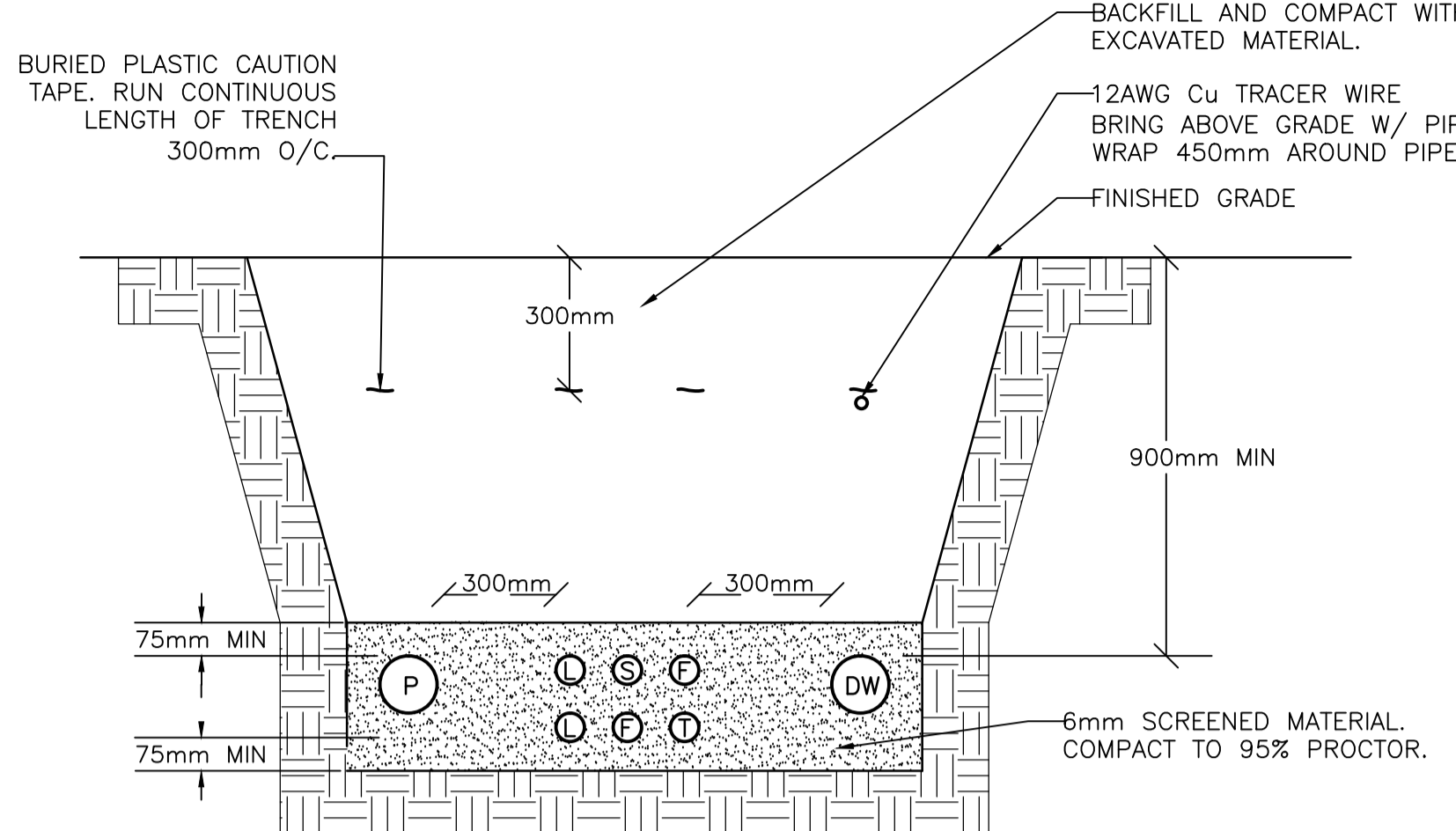
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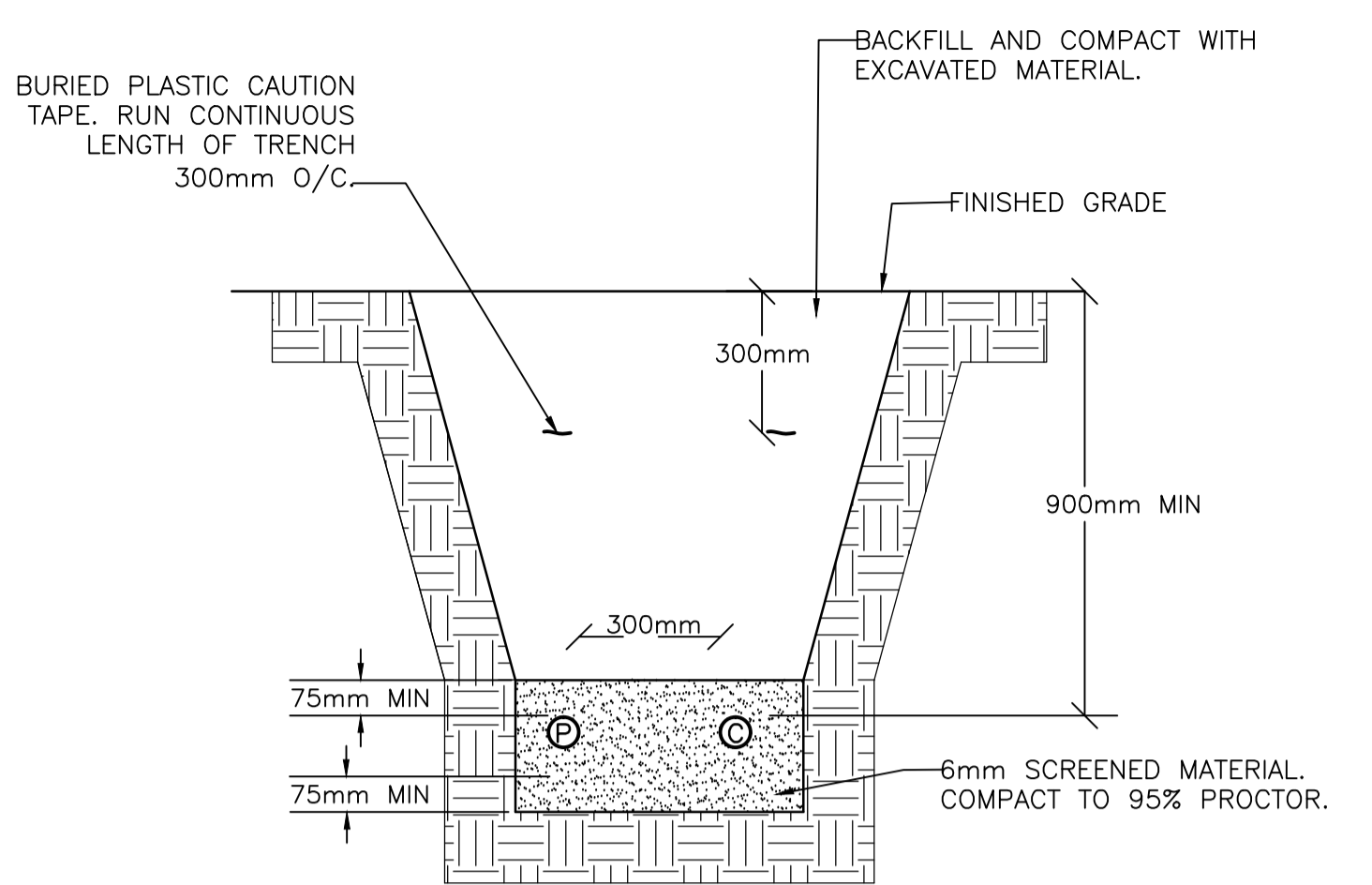
- 2 - 104mm RPVC POWER
- 1 - 104mm RPVC TELEPHONE

1 TRENCH CONDUIT AND CABLE BURIAL DETAIL
E303 NTS



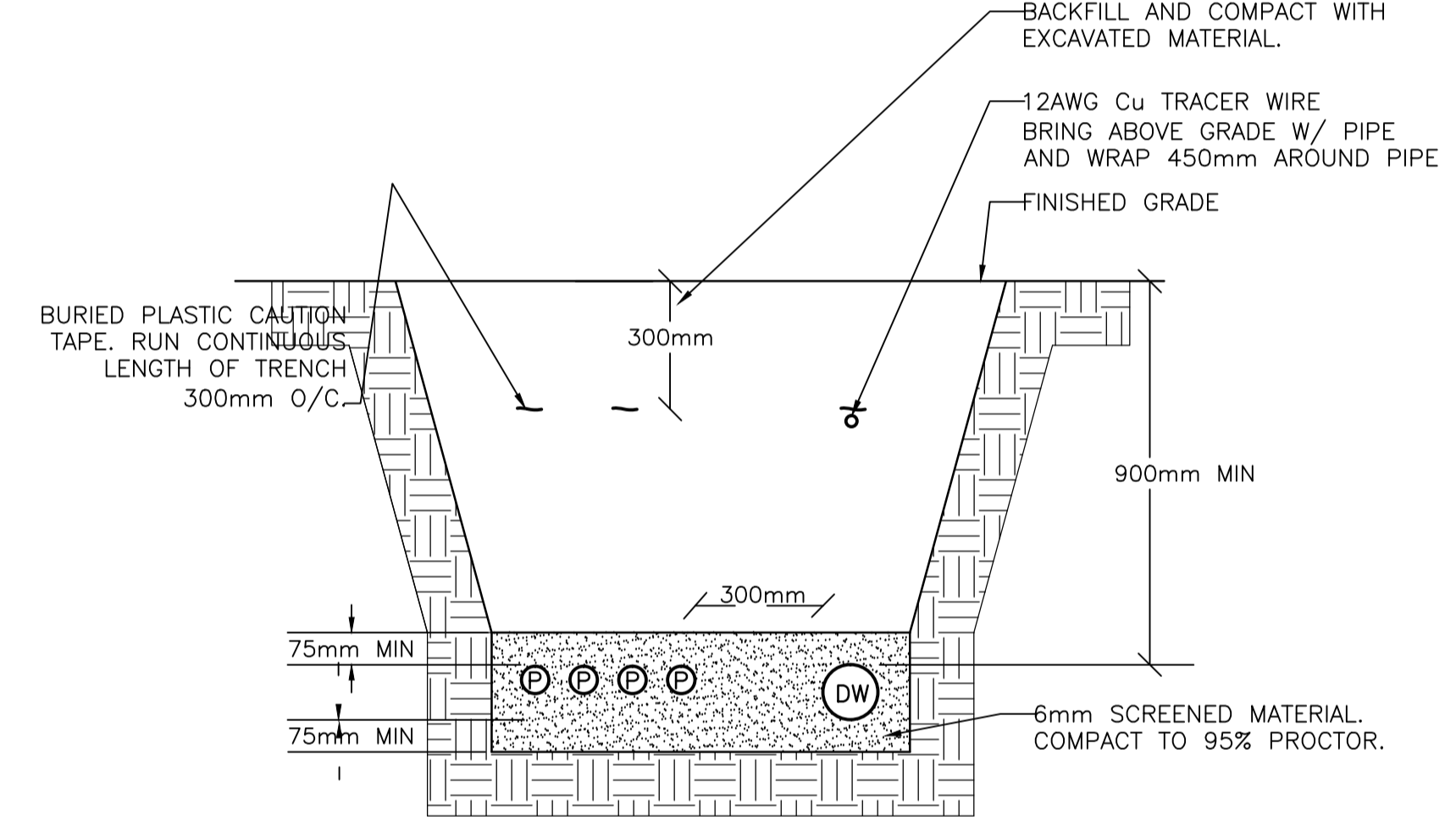
- 1 - 78mm RPVC POWER
- 1 - 53mm RPVC TELEPHONE
- 2 - 53mm RPVC FIRE ALARM
- 1 - 53mm SPARE
- 1 - 27mm LEAK DETECTION TO EXISTING LEAK DETECTION PANEL IN RESIDENCES. PANEL LOCATION TO BE DETERMINED ON SITE. REFER TO FUEL OIL SYSTEM DRAWINGS.
- 1 - 21mm LEAK DETECTION BETWEEN SITE SERVICES BUILDING AND INTERMEDIATE PIPING SUMP - REFER TO FUEL OIL SYSTEM DRAWINGS.
- 1 - DOMESTIC WATER AS INDICATED ON MECHANICAL

2 DUPLEX UNITS
E303 NTS



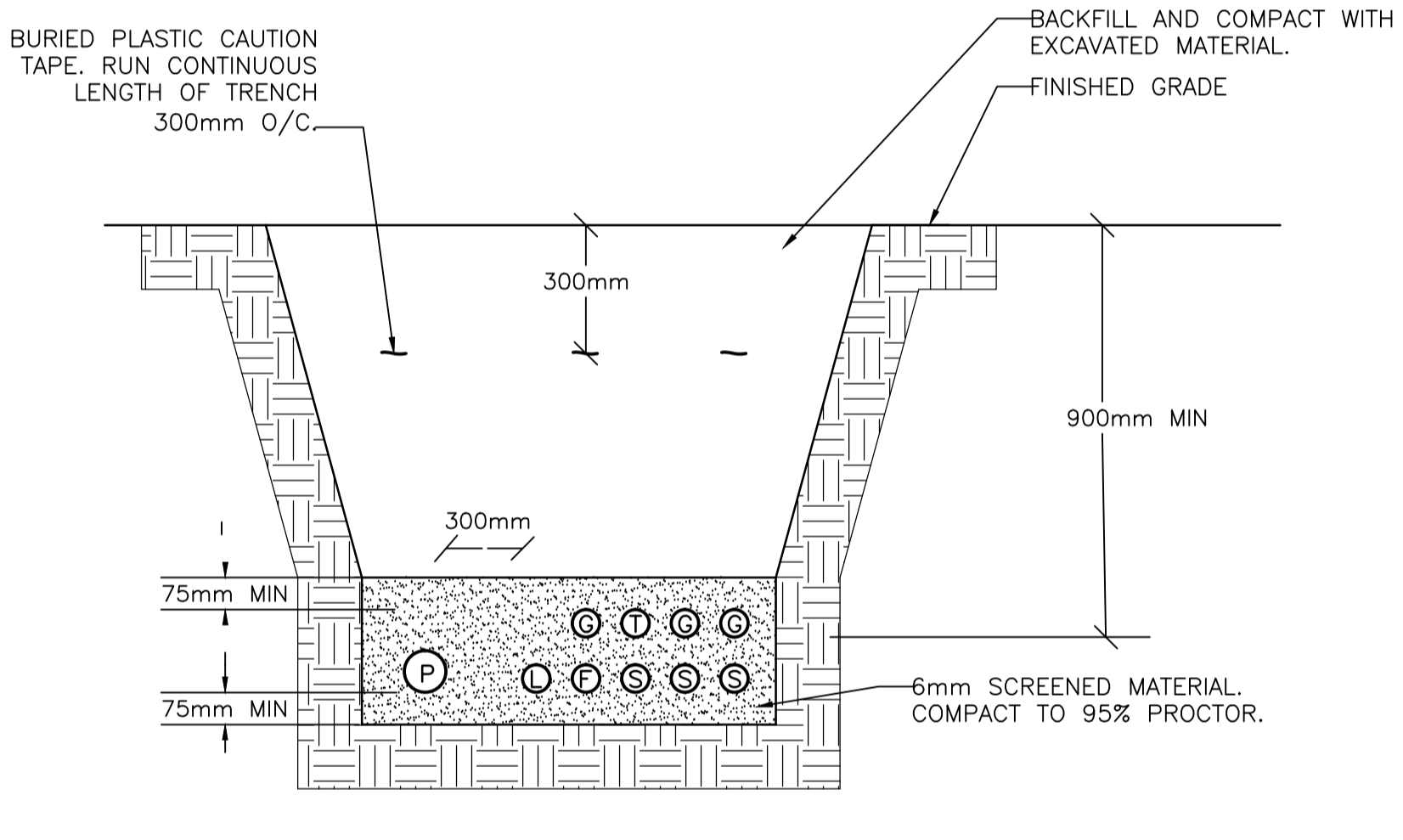
- 1 - 27mm GATE POWER
- 1 - 27mm GATE CONTROL

3 GATE CONNECTIONS
E303 NTS



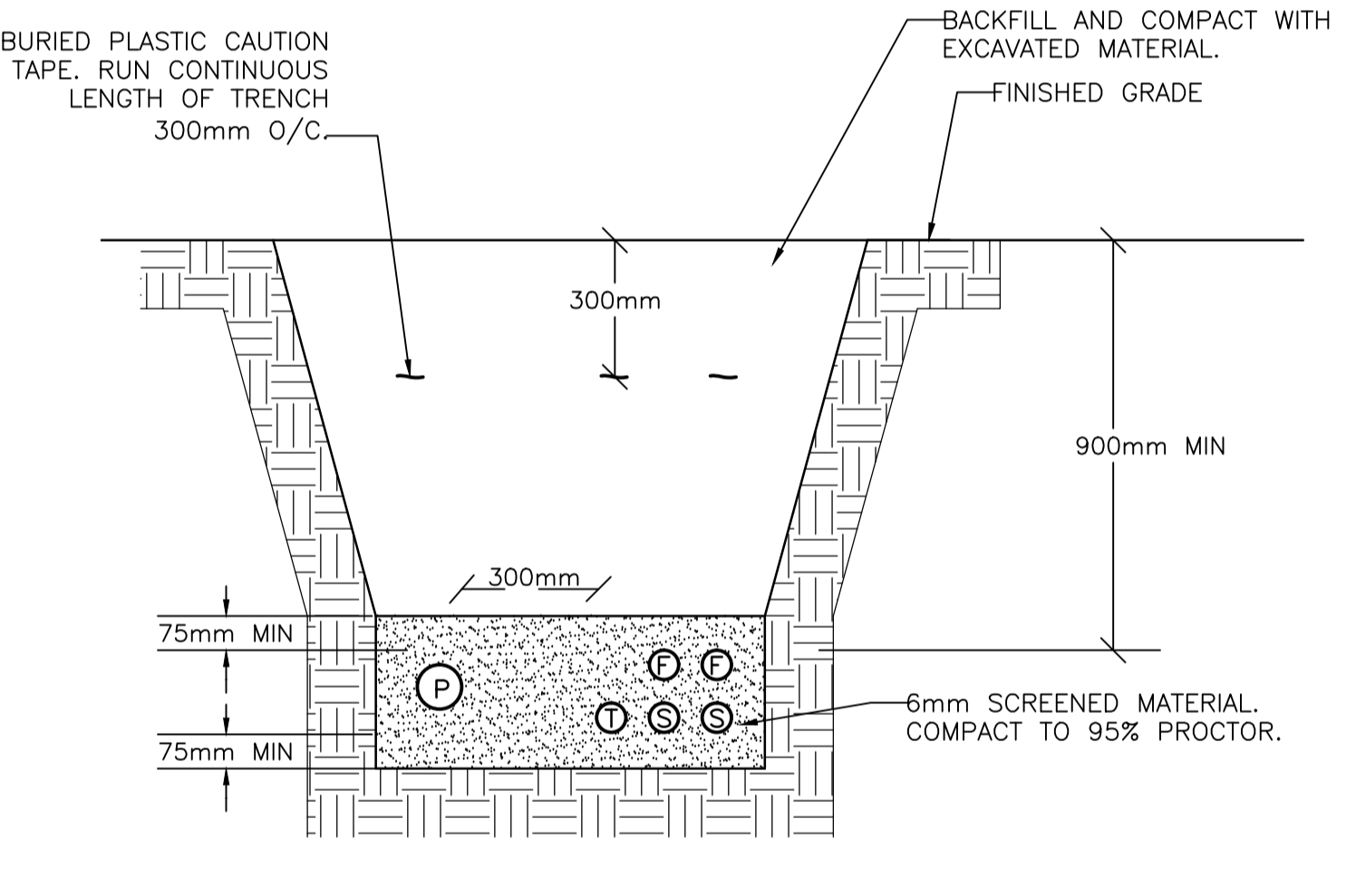
- TO NEW WELL:
- 1 - 53mm RPVC WELL POWER
 - 1 - 35mm RPVC WELL ENCLOSURE HEAT
 - 1 - 35mm RPVC WELL CASING HEAT TRACE
 - 1 - DOMESTIC WATER AS INDICATED ON MECHANICAL
- TO EXISTING WELL:
- 1 - 53mm RPVC WELL POWER

4 WATER WELLS
E303 NTS



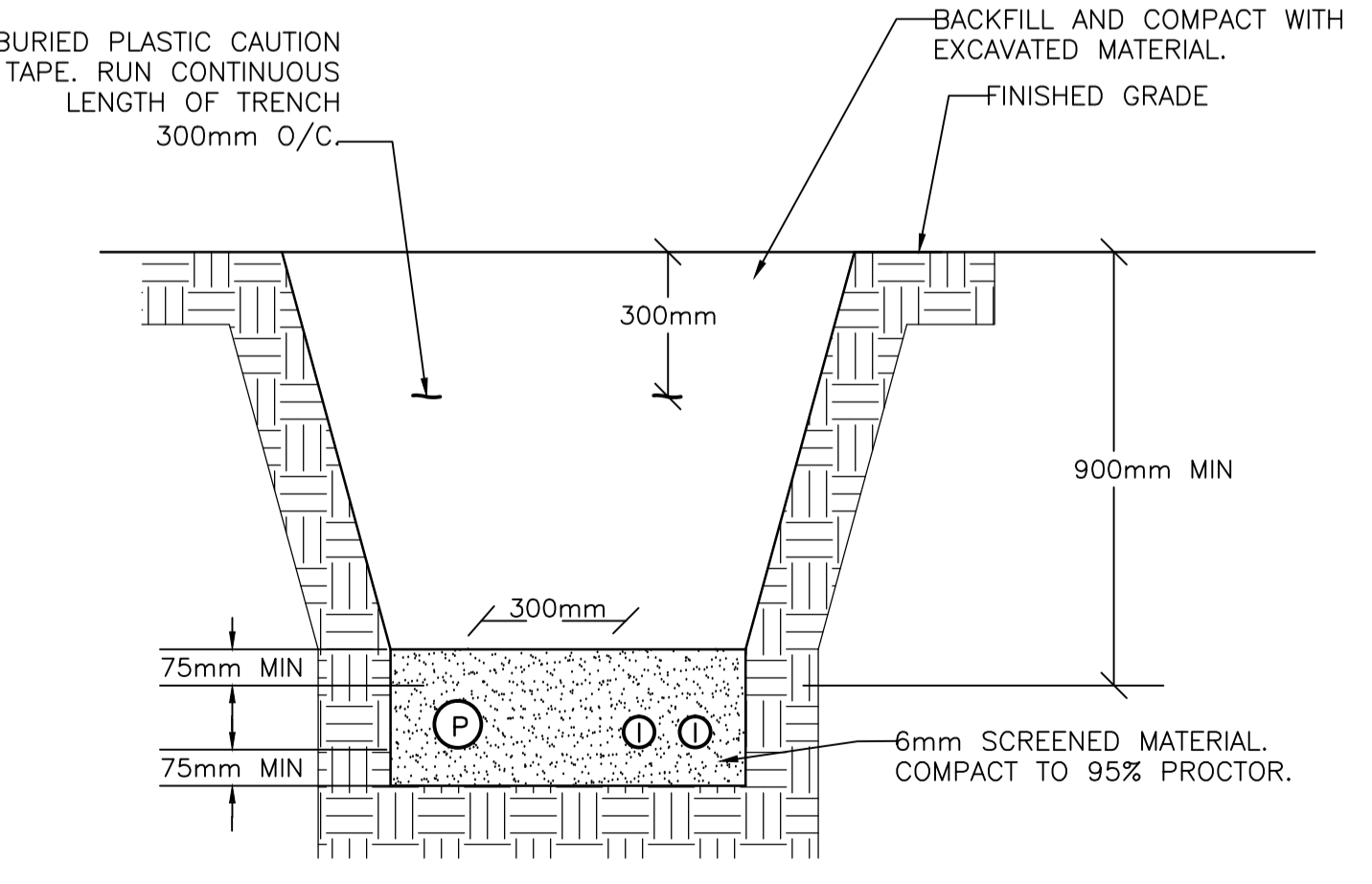
- 1 - 78mm RPVC POWER
- 1 - 53mm RPVC TELEPHONE
- 1 - 27mm RPVC GATE POWER
- 1 - 27mm RPVC GATE CONTROL
- 1 - 41mm RPVC GENERATOR REMOTE ANNUNCIATOR
- 1 - 41mm RPVC FIRE ALARM
- 1 - 21mm RPVC LEAK DETECTION
- 1 - 53mm SPARE (FROM ELECTRICAL ROOM)
- 2 - 41mm SPARE (FROM ELECTRICAL ROOM)

5 FUTURE PoE CONNECTION STUB OUT
E303 NTS



- 1 - 53mm RPVC POWER
- 1 - 41mm RPVC TELEPHONE
- 2 - 21mm RPVC FIRE ALARM
- 2 - 21mm RPVC SECURITY/MISC

6 EXISTING MAINTENANCE BUILDING
E303 NTS



- 1 - 35mm RPVC POWER
- 2 - DIRECT BURIED INSTRUMENTATION CABLE. REFER TO 1/E203

7 OIL WATER SEPARATOR
E303 NTS

NOTE:
1. SEPARATION BETWEEN CONDUITS TO BE MINIMUM 50mm UNLESS OTHERWISE NOTED.

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	15/02/03

Client/client

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

Consultant Signature Only

Designed by/Concept par **CFM**

Drawn by/Dessiné par **EH**

PWGSC Project Manager/Administrateur de Projets TPSCG

Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSCG

Drawing title/Titre du dessin

TRENCHING DETAILS

Project No./No. du projet R.071363.001	Sheet/Feuille E303 OF	Revision no./La Révision no. 0
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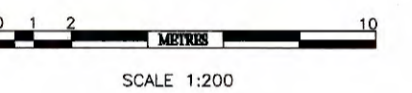


- LOT BOUNDARY
- FORMER STRUCTURES
- TELEPHONE LINE (UG)
- WATER LINE
- ELECTRICAL LINE
- FUEL LINE
- ELECTRICAL/TELEPHONE LINE
- SEPTIC
- AS/SVC SYSTEM PIPING
- UTILITY CORRIDOR (2011)
- PROPOSED U/G UTILITIES TO BE INSTALLED

--- INFERRED EXTENT OF HYDROCARBON IMPACTED SOILS >CL/RL STANDARDS/GUIDELINES

- ⊕ BOREHOLE (OTHER)
- ⊕ MONITORING WELL (OTHER)
- ⊕ MONITORING WELL (SNC-LAVALIN)
- ⊕ BOREHOLE
- ⊕ AIR SPARGE WELL (SNC-LAVALIN)
- ⊕ SOIL VAPOUR EXTRACTION WELL (SNC-LAVALIN)
- ⊕ SOIL VAPOUR WELL
- ⊕ TEST PIT
- ⊕ TRENCH SAMPLE
- ⊕ HAND AUGER SAMPLE
- ⊕ FLAGPOLE (ARBITRARY DATUM)
- ⊕ SURFACE WATER SAMPLING LOCATION
- ⊕ FIRE HYDRANT
- ⊕ DESTROYED MONITORING WELL

- AREA 1 INFERRED EXTENT OF IMPACTED SOILS (APPROXIMATE)
- AREA 2 INFERRED EXTENT OF IMPACTED SOILS (APPROXIMATE)
- AREA 3 INFERRED EXTENT OF IMPACTED SOILS (APPROXIMATE)
- AREA 4 INFERRED EXTENT OF IMPACTED SOILS (APPROXIMATE)



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0	ISSUED FOR TENDER	1999-03-12
Revision/	Description/Description	Date/Date
Revision		

Client/client

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

**PLEASANT CAMP PORT OF ENTRY
TENDER A
SITE SERVICES & SITE SERVICES BUILDING**

Consultant Signature/Signature

Designed by/Concept par

Drawn by/Dessiné par

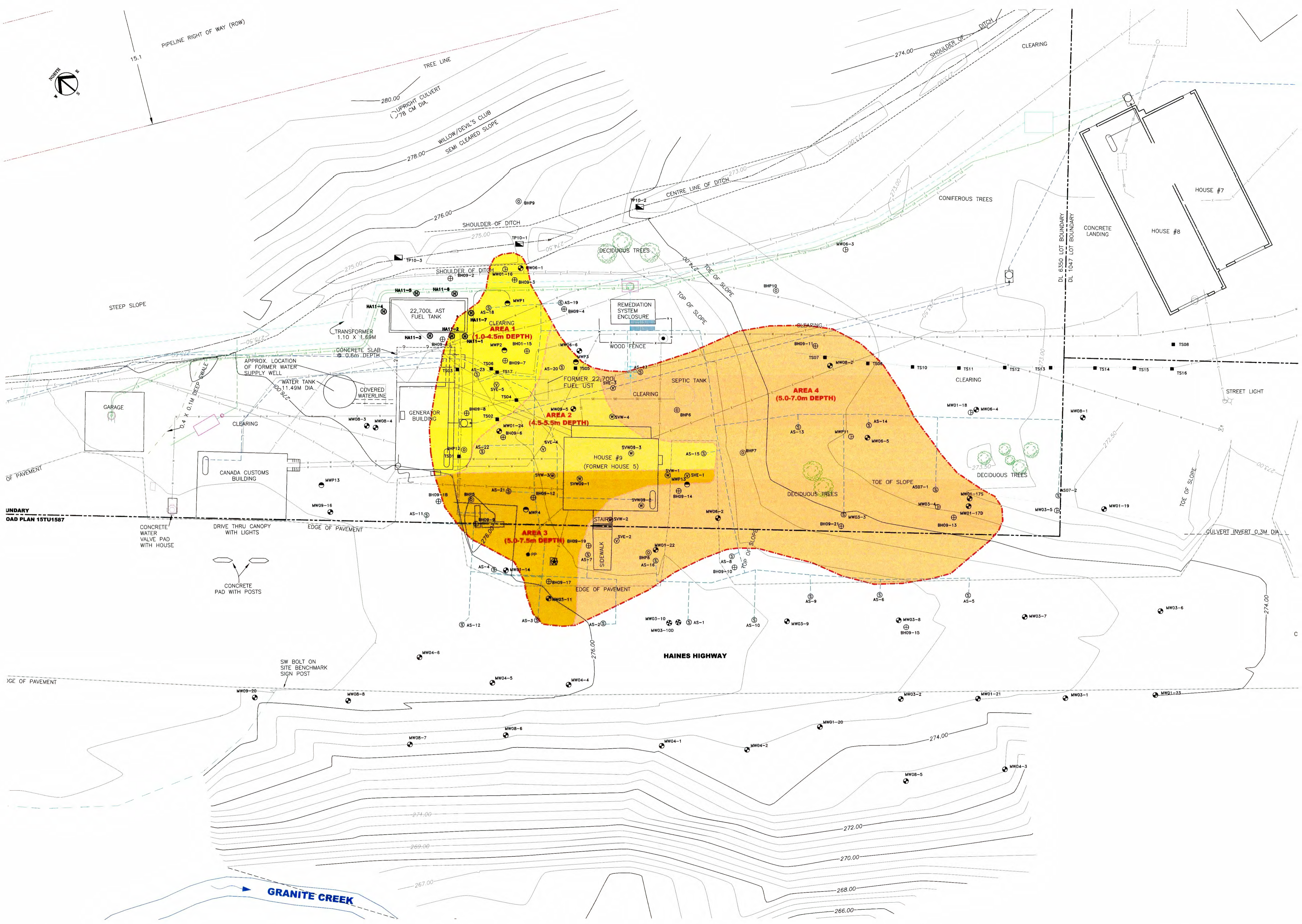
PWGSC Project Manager/Administrateur de Projets TPSGC

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin

SOIL REMEDIATION AREAS

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.071363.001	SR-001	0
	OF	





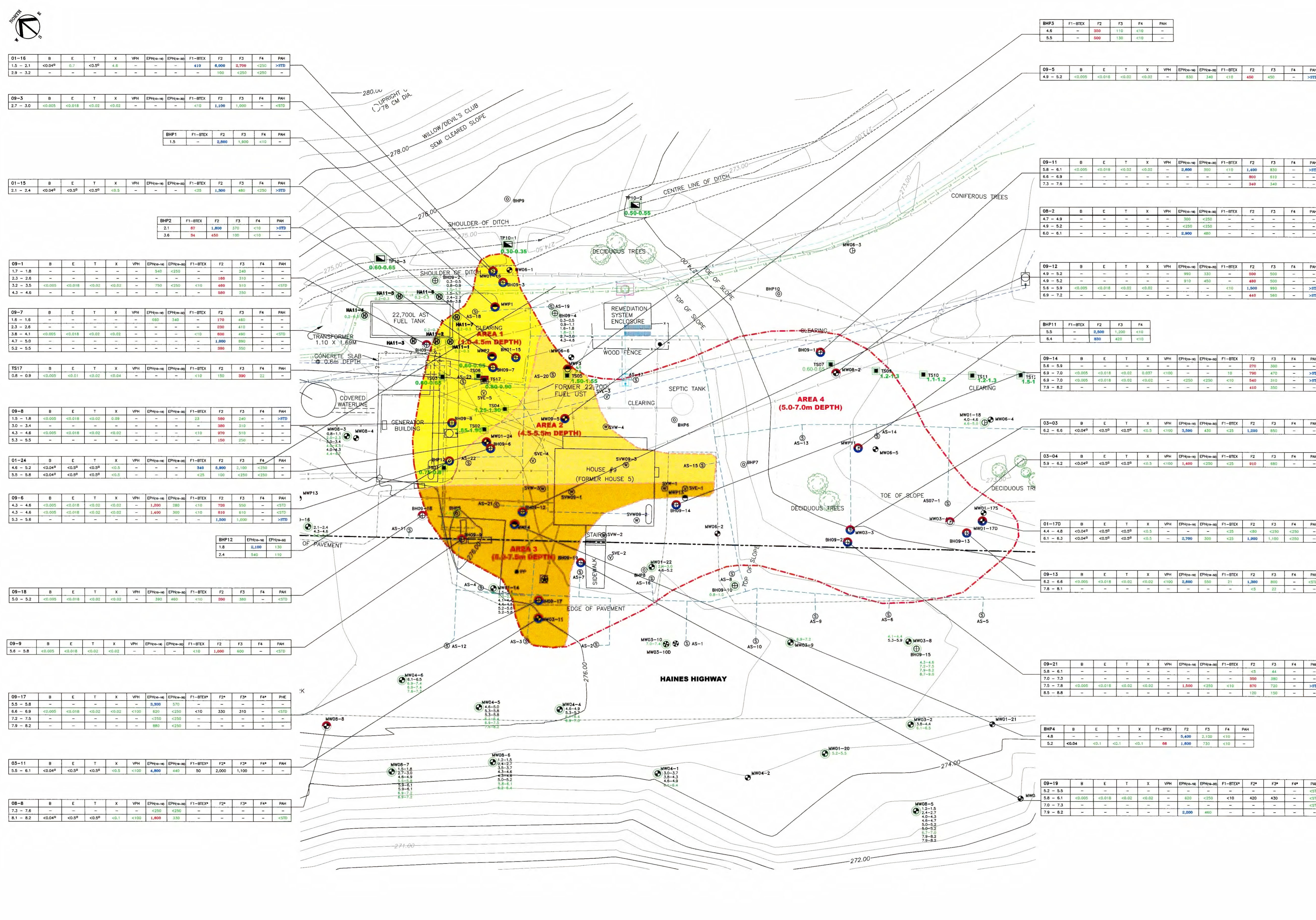
- LOT BOUNDARY
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- TELEPHONE LINE (UG)
- WATER LINE
- ELECTRICAL LINE
- FUEL LINE
- ELECTRICAL/TELEPHONE LINE
- SEPTIC
- AS/SVE SYSTEM PIPING
- UTILITY CORRIDOR (2011)
- PROPOSED U/G UTILITIES TO BE INSTALLED

--- INFERRED EXTENT OF HYDROCARBON IMPACTED SOILS >CLR/ STANDARDS/GUIDELINES

- ⊙ BOREHOLE (OTHER)
- ⊙ MONITORING WELL (OTHER)
- ⊙ MONITORING WELL (SNC-LAVALIN)
- ⊙ BOREHOLE
- ⊙ AIR SPARGE WELL (SNC-LAVALIN)
- ⊙ SOIL VAPOUR EXTRACTION WELL (SNC-LAVALIN)
- ⊙ SOIL VAPOUR WELL
- ⊙ TEST PIT
- ⊙ TRENCH SAMPLE
- ⊙ HAND AUGER SAMPLE
- ⊙ FLAGPOLE (ARBITRARY DATUM)
- ⊙ SURFACE WATER SAMPLING LOCATION
- ⊙ FIRE HYDRANT
- ⊙ DESTROYED MONITORING WELL

- AREA 1 INFERRED EXTENT OF IMPACTED SOILS (APPROXIMATE)
- AREA 2 INFERRED EXTENT OF IMPACTED SOILS (APPROXIMATE)
- AREA 3 INFERRED EXTENT OF IMPACTED SOILS (APPROXIMATE)
- AREA 4 INFERRED EXTENT OF IMPACTED SOILS (APPROXIMATE)

0 1 2 METERS
SCALE 1:200



01-16	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2	F3	F4	PAH
1.5 - 2.1	<0.04*	<0.07	<0.05*	<0.5	-	-	-	410	8,000	2,700	<250	>STD
2.9 - 3.2	-	-	-	-	-	-	-	<100	<350	<250	-	-

09-3	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2	F3	F4	PAH
2.7 - 3.0	<0.005	<0.018	<0.02	<0.02	-	-	-	410	1,100	1,000	<10	<370

BHP1	F1-BTEX	F2	F3	F4	PAH
1.5	-	8,000	1,800	<10	-

01-15	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2	F3	F4	PAH
2.1 - 2.4	<0.04*	<0.05*	<0.05*	<0.5	-	-	-	<10	1,300	480	<250	>STD

BHP2	F1-BTEX	F2	F3	F4	PAH
2.1	87	1,800	370	<10	>STD
3.6	94	450	180	<10	-

09-1	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2	F3	F4	PAH
1.7 - 1.8	-	-	-	-	-	540	<250	-	240	-	-	-
2.3 - 2.6	-	-	-	-	-	790	<250	<10	190	310	-	<370
3.2 - 3.5	<0.005	<0.018	<0.02	<0.02	-	790	<250	<10	480	810	-	<370
4.3 - 4.6	-	-	-	-	-	560	350	-	560	350	-	-

09-7	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2	F3	F4	PAH
1.6 - 1.6	-	-	-	-	-	680	340	-	170	460	-	-
2.3 - 2.6	-	-	-	-	-	830	410	-	830	410	-	-
3.8 - 4.1	<0.005	<0.018	<0.02	<0.02	-	-	-	<10	600	490	-	<370
4.7 - 5.0	-	-	-	-	-	-	-	-	1,000	390	-	-
5.2 - 5.5	-	-	-	-	-	-	-	-	380	350	-	-

TS17	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2	F3	F4	PAH
0.8 - 0.8	<0.005	<0.01	<0.02	<0.04	-	-	-	<10	1,300	390	55	-

09-8	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2	F3	F4	PAH
1.5 - 1.8	<0.005	<0.018	<0.02	0.09	-	-	-	<10	500	240	-	>STD
2.3 - 2.4	-	-	-	-	-	-	-	<10	380	310	-	-
4.3 - 4.6	<0.005	<0.018	<0.02	<0.02	-	-	-	<10	970	510	-	-
5.3 - 5.5	-	-	-	-	-	-	-	-	350	250	-	-

01-24	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2	F3	F4	PAH
4.6 - 5.2	<0.04*	<0.05*	<0.05*	<0.5	-	-	-	340	5,800	1,100	290	-
5.5 - 5.8	<0.04*	<0.05*	<0.05*	<0.5	-	-	-	<25	100	<250	<250	-

09-6	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2	F3	F4	PAH
4.3 - 4.6	<0.005	<0.018	<0.02	<0.02	-	1,200	380	<10	790	550	-	<370
4.3 - 4.6	<0.005	<0.018	<0.02	<0.02	-	1,400	300	<10	810	610	-	<370
5.3 - 5.6	-	-	-	-	-	-	-	<10	1,500	1,000	-	>STD

BHP12	F1-BTEX	F2	F3	F4	PAH
1.8	8,100	130	-	-	-
2.4	540	110	-	-	-

09-18	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2	F3	F4	PAH
5.0 - 5.2	<0.005	<0.018	<0.02	<0.02	-	380	460	<10	300	380	-	<370

09-9	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2	F3	F4	PAH
5.6 - 5.8	<0.005	<0.018	<0.02	<0.02	-	-	-	<10	1,000	600	-	<370

09-17	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2*	F3*	F4*	PAH
5.5 - 5.8	-	-	-	-	-	3,300	370	-	-	-	-	-
6.6 - 6.9	<0.005	<0.018	<0.02	<0.02	<100	620	<250	<10	330	310	-	<370
7.2 - 7.5	-	-	-	-	-	<250	<250	-	-	-	-	-
7.9 - 8.2	-	-	-	-	-	880	<250	-	-	-	-	-

03-11	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2*	F3*	F4*	PAH
5.5 - 6.1	<0.04*	<0.05*	<0.05*	<0.5	<100	4,800	440	50	2,000	1,100	-	-

08-8	B	E	T	X	VPH	EPH(m)	EPH(m)	F1-BTEX	F2*	F3*	F4*	PAH
7.3 - 7.8	-	-	-	-	-	<250	<250	-	-	-	-	-
8.1 - 8.2	<0.04*	<0.05*	<0.05*	<0.5	<100	1,800	330	-	-	-	-	<370

OC Standards	Benzene (ppb)	Ethyl benzene (ppb)	Toluene (ppb)	Xylenes (ppb)	VPH (ppb)	EPH (ppb)	EPH (ppb)	F1 (ppb)	F2 (ppb)	F3 (ppb)	F4 (ppb)	PAH (ppb)
CCSR Residential Land Use (RL)	10	1	1.5	5	200	1,000	1,000	n/a	n/a	n/a	n/a	refer to tables
CCSR Commercial Land Use (CL)	10	20	25	50	200	2,000	2,000	n/a	n/a	n/a	n/a	refer to tables
Federal Guidelines/Standards												
CCME CEGG/MS Residential Coarse-Grained Surface Soil (sample depth > 1.5m)	0.085	50	0.1	14	n/a	n/a	n/a	30	150	300	2,800	refer to tables
CCME CEGG/MS Commercial Coarse-Grained Surface Soil (sample depth > 1.5m)	0.30	300	110	85	n/a	n/a	n/a	320	260	1,700	3,300	refer to tables
CCME CEGG/MS Residential Fine-Grained Surface Soil (sample depth > 1.5m)	2.1	120	0.1	37	n/a	n/a	n/a	210	150	1,300	5,600	refer to tables
CCME CEGG/MS Commercial Fine-Grained Surface Soil (sample depth > 1.5m)	2.8	430	230	n/a	n/a	n/a	n/a	320	260	2,500	6,600	refer to tables
CCME CEGG/MS Residential Coarse-Grained Subsoil (sample depth > 1.5m)	0.11	50	0.1	18	n/a	n/a	n/a	30	150	2,500	10,500	refer to tables
CCME CEGG/MS Commercial Coarse-Grained Subsoil (sample depth > 1.5m)	0.32	50	0.1	37	n/a	n/a	n/a	320	1,000	3,500	10,000	refer to tables
CCME CEGG/MS Residential Fine-Grained Subsoil (sample depth > 1.5m)	2.1	240	220	130	n/a	n/a	n/a	610	1,000	3,500	10,000	refer to tables
CCME CEGG/MS Commercial Fine-Grained Subsoil (sample depth > 1.5m)	2.9	600	660	460	n/a	n/a	n/a	600	1,000	5,000	10,000	refer to tables

* FEDERAL STANDARDS NOT APPLIED OFF-SITE ON PROVINCIAL LANDS

LOCATION	ANALYTICAL SOIL RESULTS
03-11 Depth Range 11-1	B E T X VPH EPH(m) EPH(m) F1 F2 F3 F4 PHE NAP FL
5.5 - 6.1	<0.04* <0.05* <0.05* <0.5 <100 4,800 440 50 2,000 1,100 - - - -

1. ORIGINAL DRAWING IN COLOUR.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHOULD BE CONFIRMED ON SITE. NOT ALL UTILITIES MAY BE SHOWN.

- B BENZENE
- E ETHYLBENZENE
- T TOLUENE
- X XYLENES
- VPH VOLATILE PETROLEUM HYDROCARBONS (C6-C10)
- EPH(C10-C19) ESTIMABLE PETROLEUM HYDROCARBONS (C10-C19)
- EPH(C1-C9) ESTIMABLE PETROLEUM HYDROCARBONS (C1-C9)
- F1 F1 (C1-C4)
- F2 F2 (C5-C10)
- F3 F3 (C11-C14)
- F4 F4 (C15-C20)
- NAP NAPHTHALENE
- FL FLUORENE
- PHE PHENANTHRENE
- CONCENTRATION GREATER THAN INDICATED DETECTION LIMIT
- NOT ANALYZED FOR

Revision/Description	Date/Date
0 ISSUED FOR TENDER	2015-02-10

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet
PLEASANT CAMP PORT OF ENTRY TENDER A SITE SERVICES & SITE SERVICES BUILDING

Consultant Signature Only
Designed by/Concept par
Drawn by/Dessiné par
PWSC Project Manager/Administrateur de Projets TPSGC
Regional Manager, Architectural and Engineering Services, Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin	Project No./No. du projet	Sheet/Feuille	Revision no./No. Révision
SOIL QUALITY	R.071363.001	SR-002	0



- LOT BOUNDARY
- FORMER STRUCTURES
- TELEPHONE LINE (UG)
- WATER LINE
- ELECTRICAL LINE
- FUEL LINE
- ELECTRICAL/TELEPHONE LINE
- SEPTIC
- AS/SVE SYSTEM PIPING
- UTILITY CORRIDOR (2011)
- PROPOSED U/G UTILITIES TO BE INSTALLED

- INFERRED EXTENT OF HYDROCARBON IMPACTED SOILS >CL/RL STANDARDS/GUIDELINES
- APPROXIMATE LIMIT OF EXCAVATION TOP OF SLOPE (ASSUMES 2H:1V SLOPE)

- ⊙ BOREHOLE (OTHER)
- ⊙ MONITORING WELL (OTHER)
- ⊙ MONITORING WELL (SNC-LAVALIN)
- ⊙ BOREHOLE
- ⊙ AIR SPARGE WELL (SNC-LAVALIN)
- ⊙ SOIL VAPOUR EXTRACTION WELL (SNC-LAVALIN)
- ⊙ SOIL VAPOUR WELL
- ⊙ TEST PIT
- ⊙ TRENCH SAMPLE
- ⊙ HAND AUGER SAMPLE
- ⊙ FLAGPOLE (ARBITRARY DATUM)
- ⊙ SURFACE WATER SAMPLING LOCATION
- ⊙ FIRE HYDRANT
- ⊙ DESTROYED MONITORING WELL
- PROPOSED LOCATION OF FUTURE ACCESS ROADWAY FOR PORT FACILITY (PRELIMINARY)
- PROPOSED LOCATION OF FUTURE PORT FACILITY BUILDINGS/STRUCTURES (PRELIMINARY)

- AREA 1 INFERRED EXTENT OF IMPACTED SOILS (APPROXIMATE)
- AREA 2 INFERRED EXTENT OF IMPACTED SOILS (APPROXIMATE)
- AREA 3 INFERRED EXTENT OF IMPACTED SOILS (APPROXIMATE)
- AREA 4 INFERRED EXTENT OF IMPACTED SOILS (APPROXIMATE)



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Revision/Évaluation	Description/Description	Date/Date
0	ISSUED FOR TENDER	2015-05-18

Client/client

CANADA BORDER SERVICES AGENCY

Project title/Titre du projet

**PLEASANT CAMP PORT OF ENTRY
TENDER A
SITE SERVICES & SITE SERVICES BUILDING**

Consultant Signature/Signature
D. W. BRIDGER

Designed by/Concept par
ATK

Drawn by/Dessiné par
ATK

PWOSC Project Manager/Administrateur de Projets TPSSC

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSSC

Drawing title/Titre du dessin

APPROXIMATE LIMIT OF REMEDIAL EXCAVATION AND PROPOSED FUTURE PORT FACILITY LAYOUT

Project No./No. du projet R.071363.001	Sheet/Feuille SR-003	Revision no./no. de Révision 0
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