

KEY PLAN N.T.S.

GENERAL NOTES

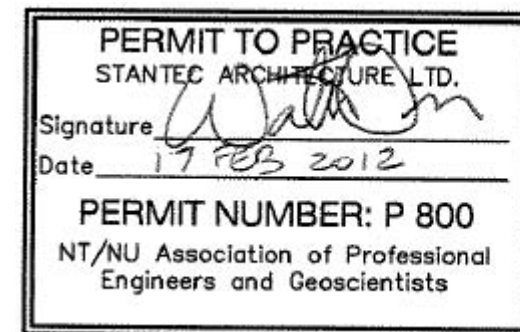
1. PIPE SIZES SHOWN IN NPS (INCHES).
2. DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
3. FIELD VERIFY ALL MEASUREMENTS.
4. ALL FUEL PIPING, FITTINGS AND ALL OTHER APPURTENANCES TO BE NEW.
5. REFER TO DRAWING 301 FOR STATIC ELECTRICITY GROUNDING CONNECTION DETAILS. PROVIDE AND WELD ALL GROUND LUG PLATES TO PIPING ETC. AT ALL LOCATIONS AS REQUIRED.

LEGEND

ELEV.: ELEVATION  
BOP: BOTTOM OF PIPE  
DIRECTION OF FLOW  
TYPE 3 PIPE SUPPORT - SEE 301

DO NOT SCALE DRAWINGS

01	17/02/2012	ISSUED FOR CONSTRUCTION	WO
NO.	DATE	REVISION	APPR.



SCALE-ÉCHELLE AS NOTED

PROJECT-PROJET PF#: 68352

UPGRADE MAIN POL COMPOUND

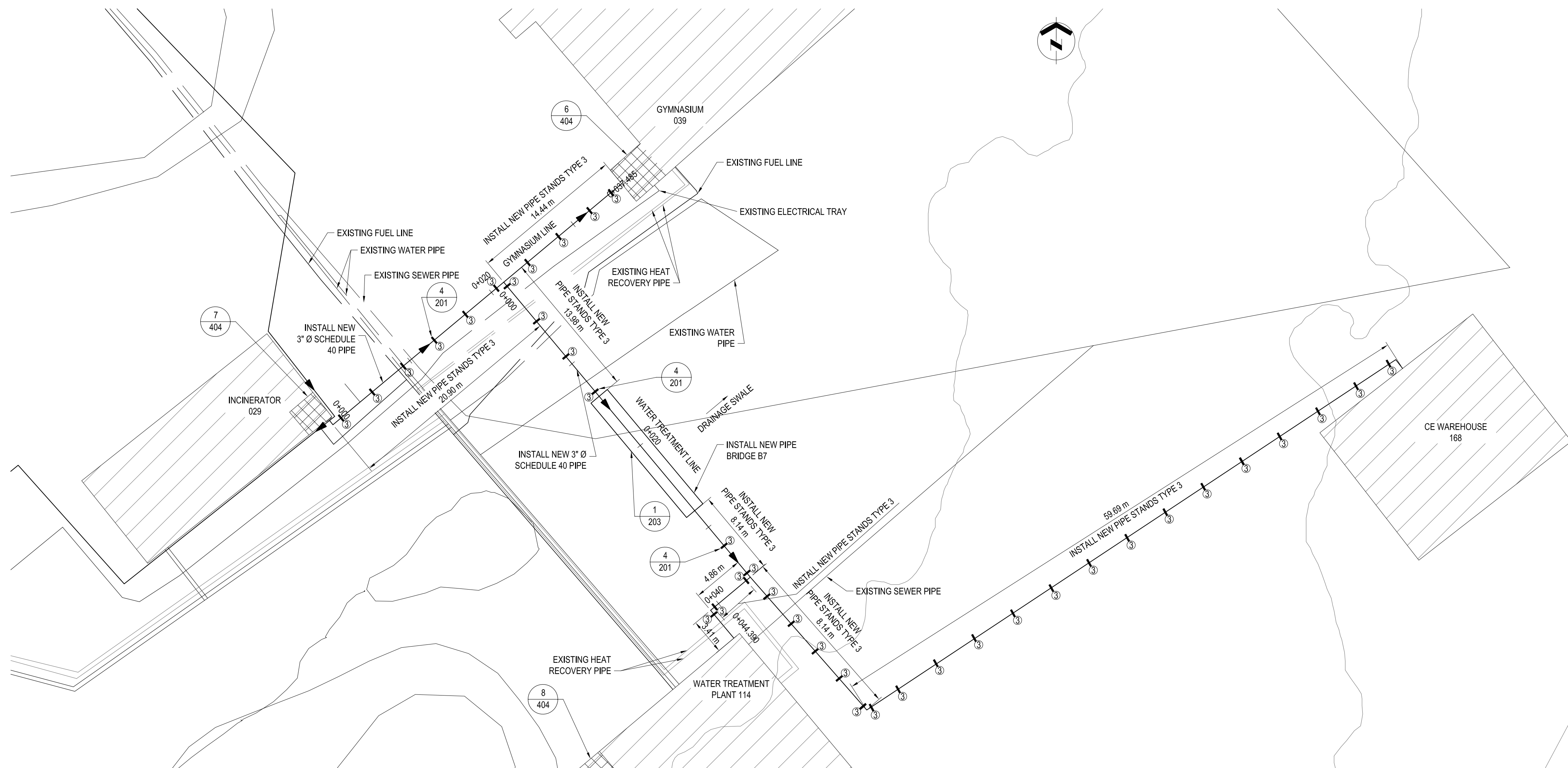
CFS ALERT, NUNAVUT

TRADE-MÉTIER CIVIL DATE 2011-11-15

PROPOSED PLAN AND PROFILE  
VARIOUS PIPE CONNECTIONS

PRODUCTION	CONCURRENCE-ASSENTMENT	
DESIGNED ÉTUDE	USERS GROUP	
DRAWN DESSINE		P. J. P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ		FIRE CHIEF CAPT. P. MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S. CHINNATAMBY, ENG O	
DWG. NO.-DESSIN NO.	L - A28 -9312/3 - 109	

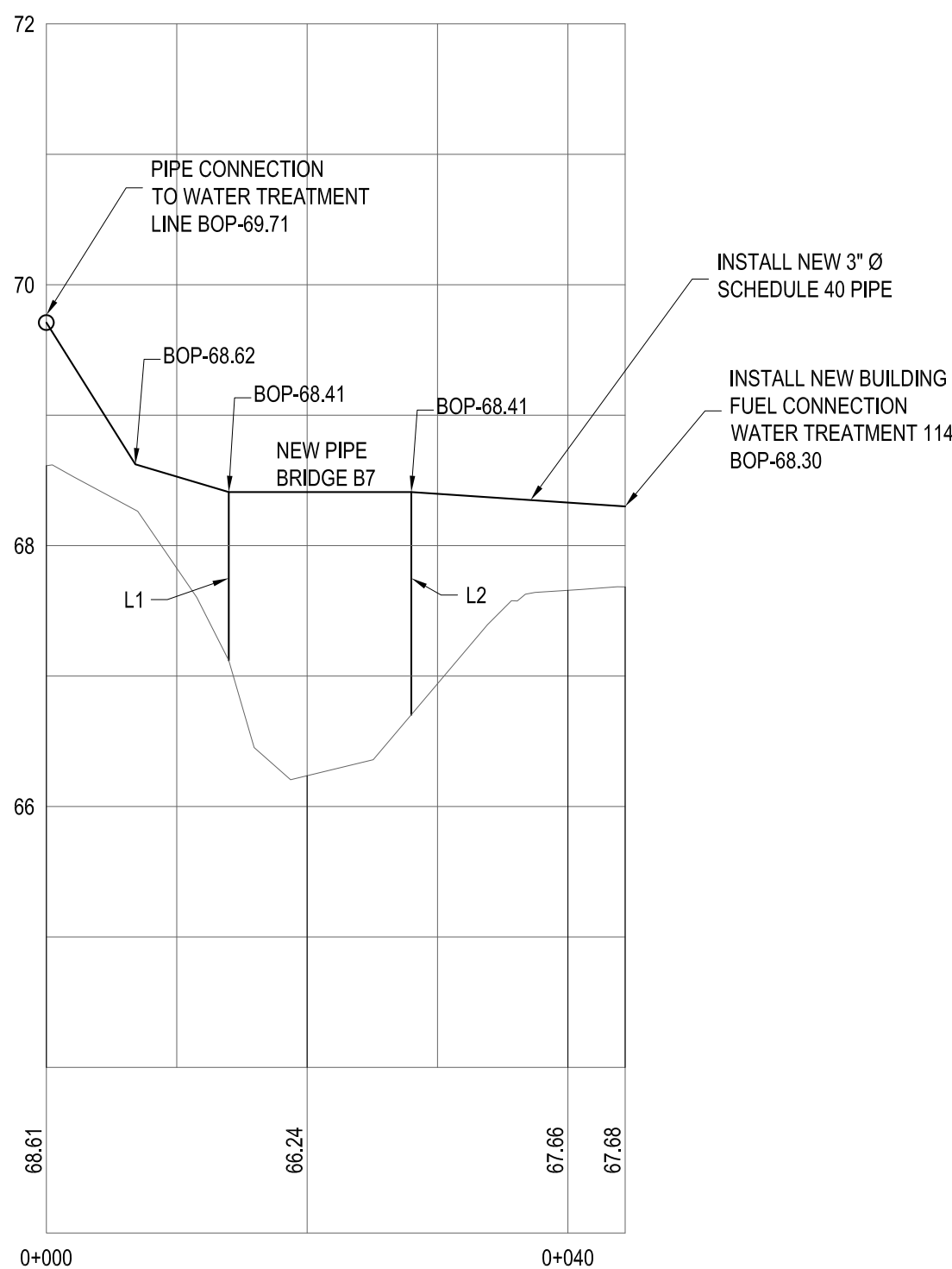
Canada



PLAN - PIPE ROUTING FOR WATER TREATMENT PLANT AND GYMNASIUM LINE

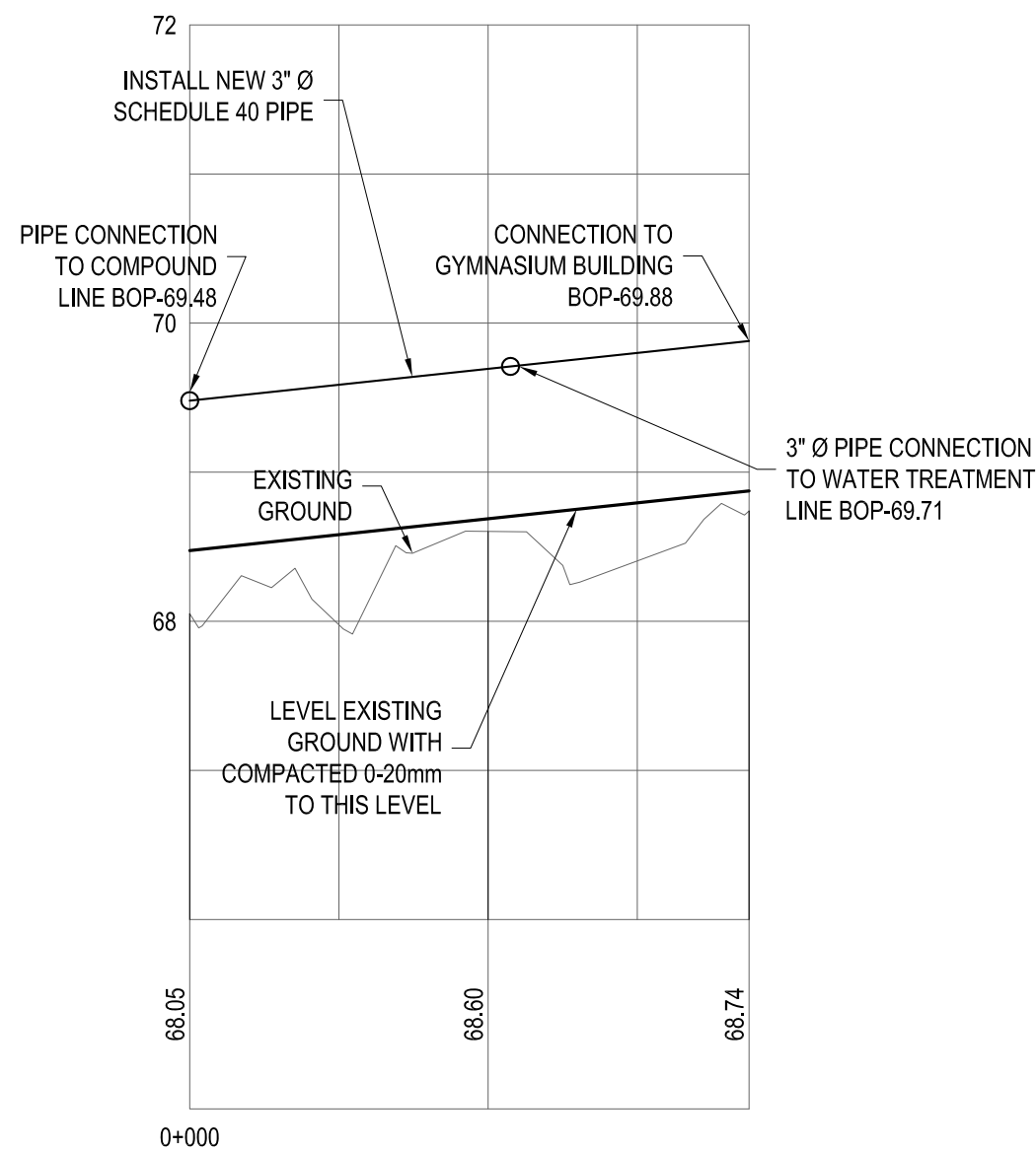
STA: 0+000 TO 0+044.39 &  
STA: 0+000 TO 0+037.485

SCALE: 1:250



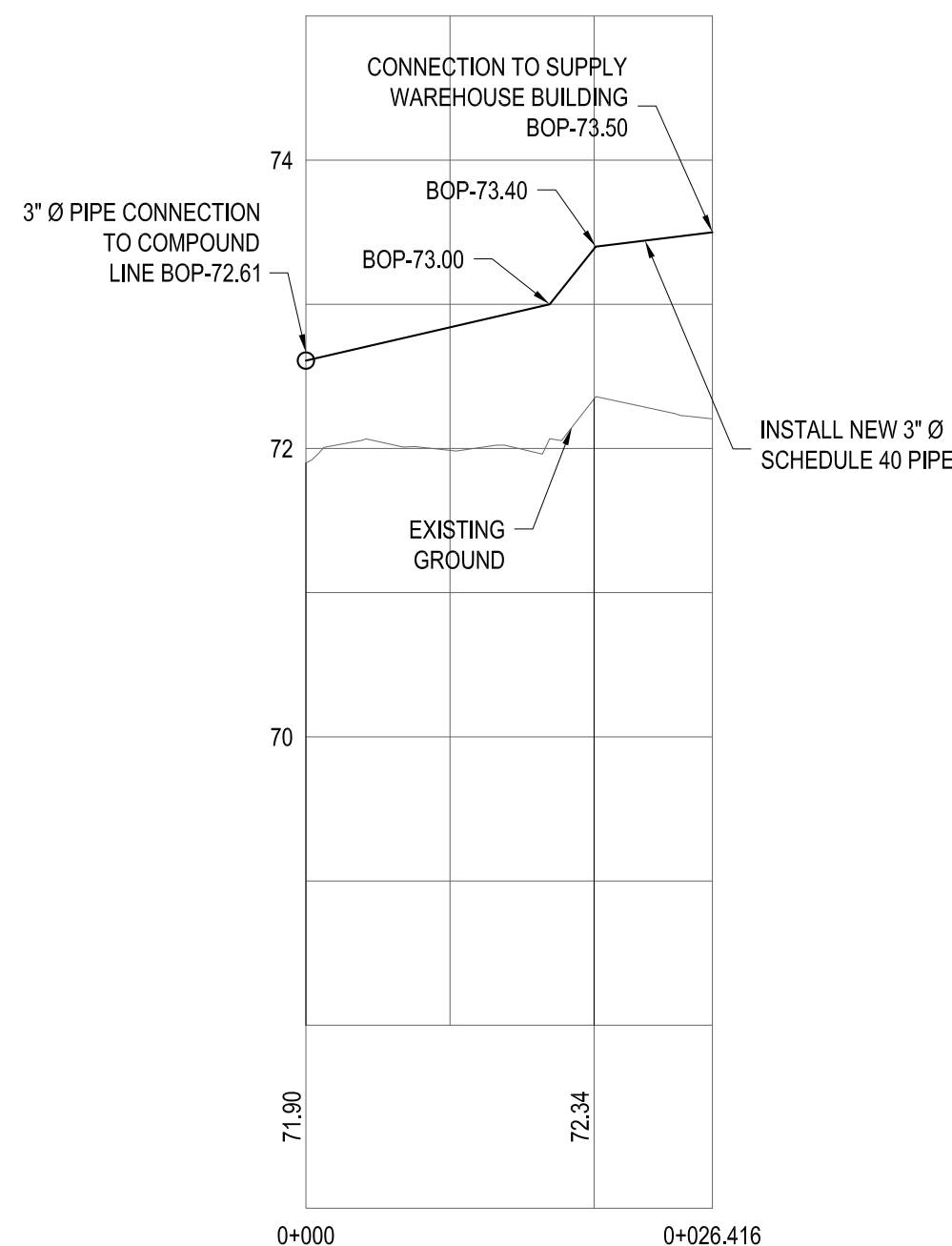
PROFILE - WATER TREATMENT PLANT LINE  
STA: 0+000 TO 0+044.39

SCALE: H 1:500, V 1:50



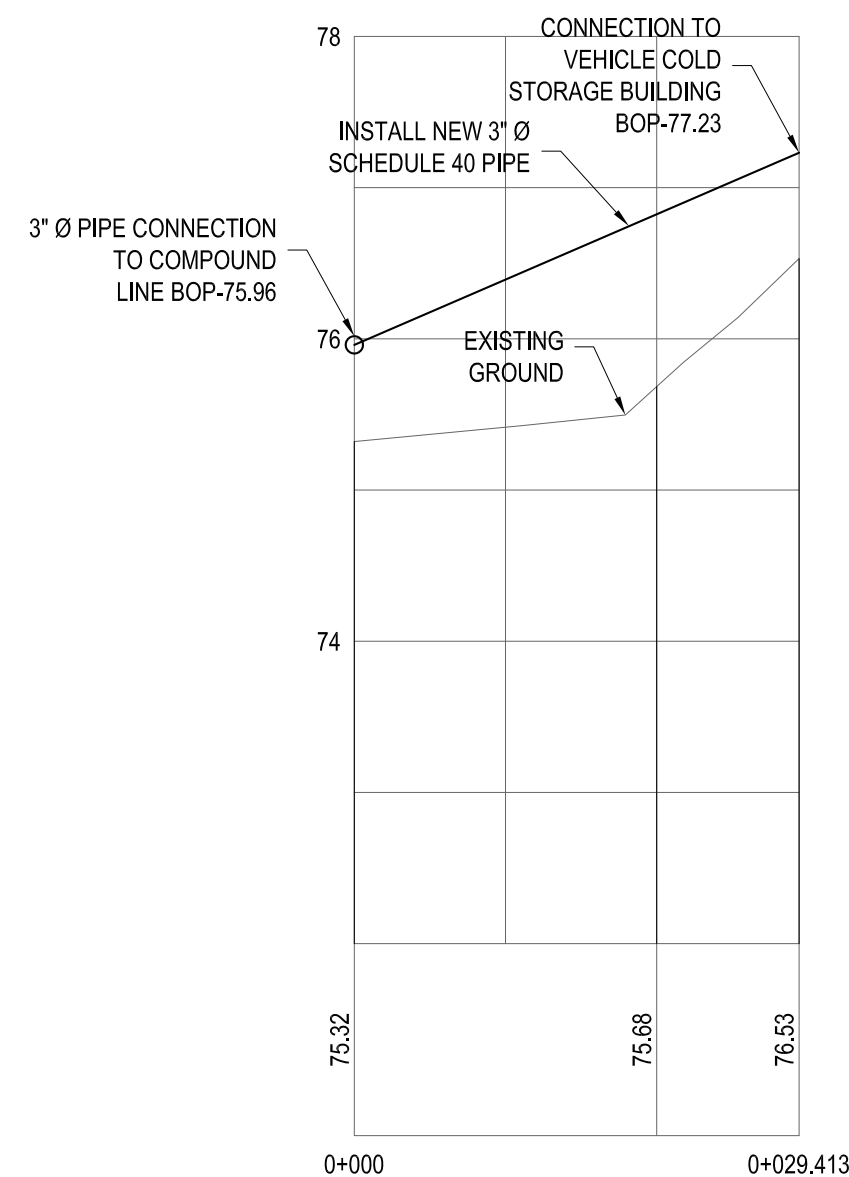
PROFILE - GYMNASIUM LINE  
STA: 0+000 TO 0+037.485

SCALE: H 1:500, V 1:50



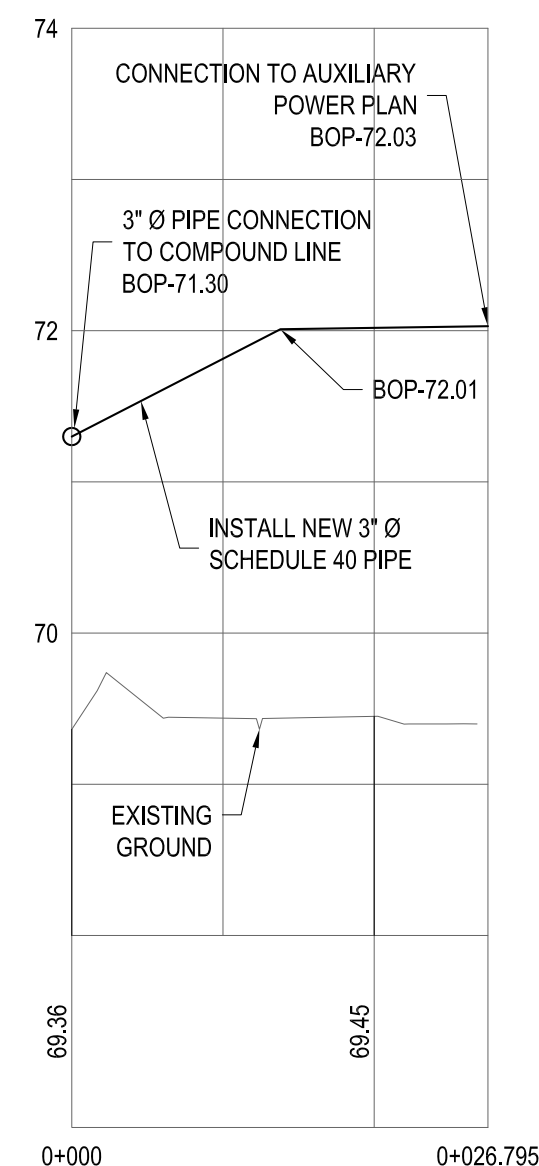
PROFILE - SUPPLY WAREHOUSE BUILDING LINE  
STA: 0+000 TO 0+29.413

SCALE: H 1:500, V 1:50  
SEE DWG NO: 105 FOR PLAN VIEW



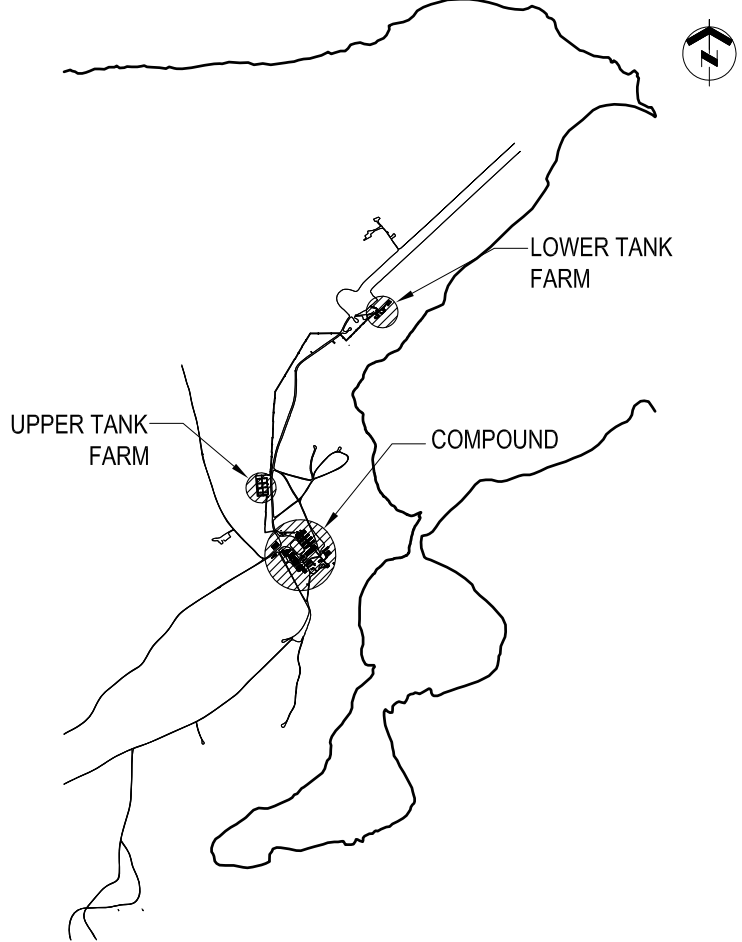
PROFILE - COLD VEHICLE STORAGE BUILDING LINE  
STA: 0+000 TO 0+29.413

SCALE: H 1:500, V 1:50  
SEE DWG NO: 106 FOR PLAN VIEW



PROFILE - POWER PLANT BUILDING LINE  
STA: 0+000 TO 0+026.795

SCALE: H 1:500, V 1:50  
SEE DWG NO: 105 FOR PLAN VIEW



KEY PLAN N.T.S.

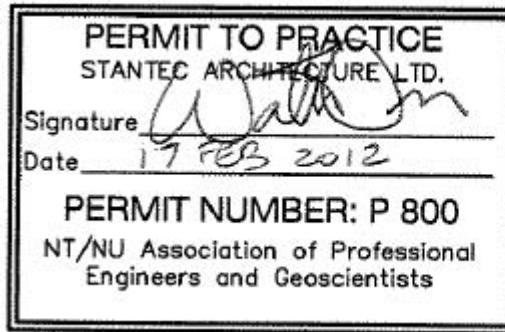
GENERAL NOTES

1. PIPE SIZES SHOWN IN NPS (INCHES).
2. DIMENSION SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
3. FIELD VERIFY ALL MEASUREMENTS.
4. PIPE SUPPORTS TYPE 1, 2, 3, 3A, 4 AND 9 ARE NEW PIPE SUPPORTS.
5. PIPE SUPPORT TYPE 5 IS A MODIFICATION TO AN EXISTING PIPE SUPPORT.
6. U-BOLTS TO BE INSTALLED (ON ALTERNATING PIPE IF APPLICABLE) ON EVERY THIRD SUPPORT. TYPICAL FOR ALL.
7. ALL STEEL PIPE SUPPORT STEEL SHALL BE GALVANIZED. GALVANIZING TO CONFORM TO CSA-G164-M.

LEGEND

DO NOT SCALE DRAWINGS

01	17/02/2012	ISSUED FOR CONSTRUCTION	WO
NO.	DATE	REVISION	APPR.



SCALE-ÉCHELLE AS NOTED

PROJECT-PROJET PF#: 68352

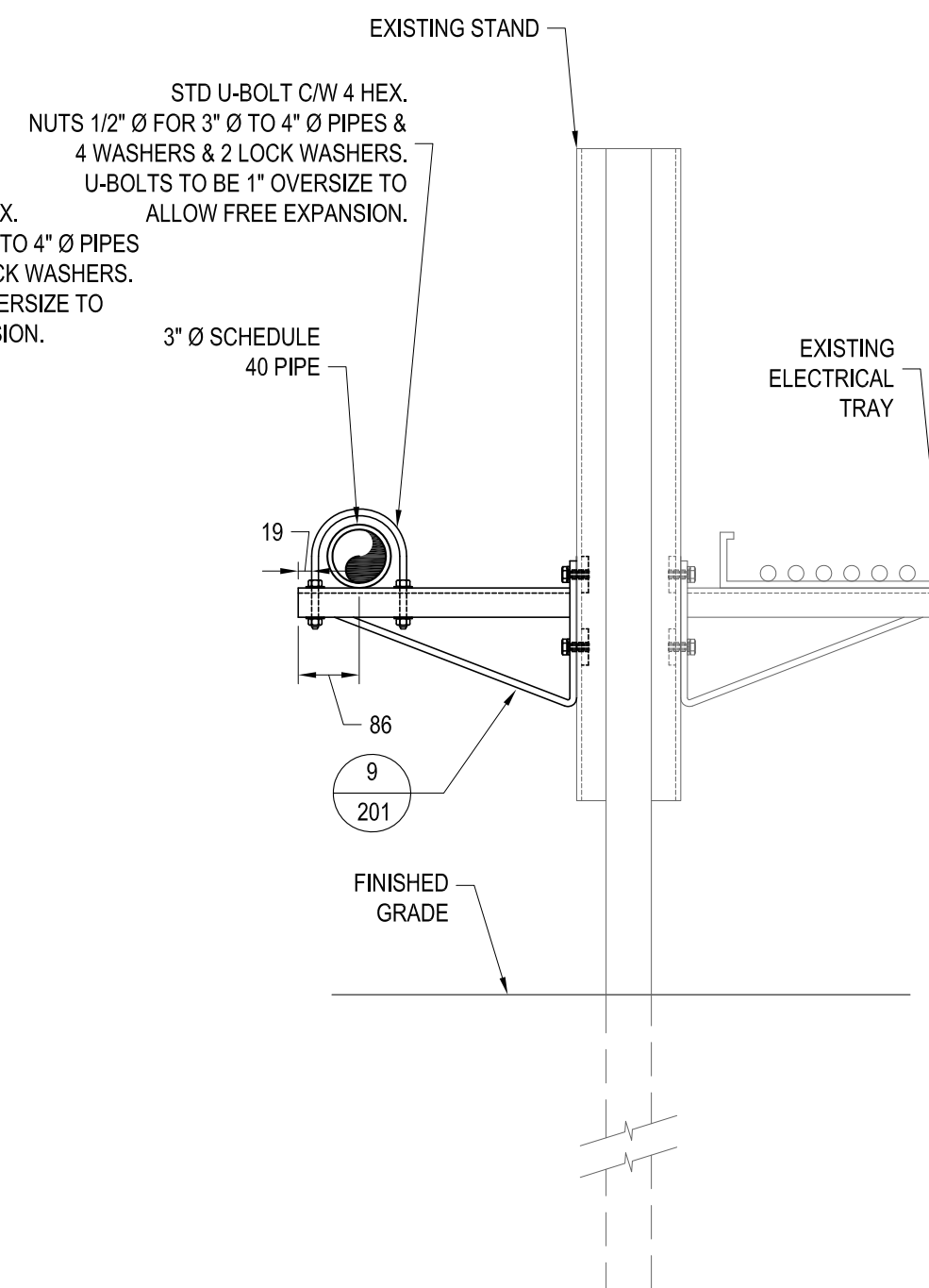
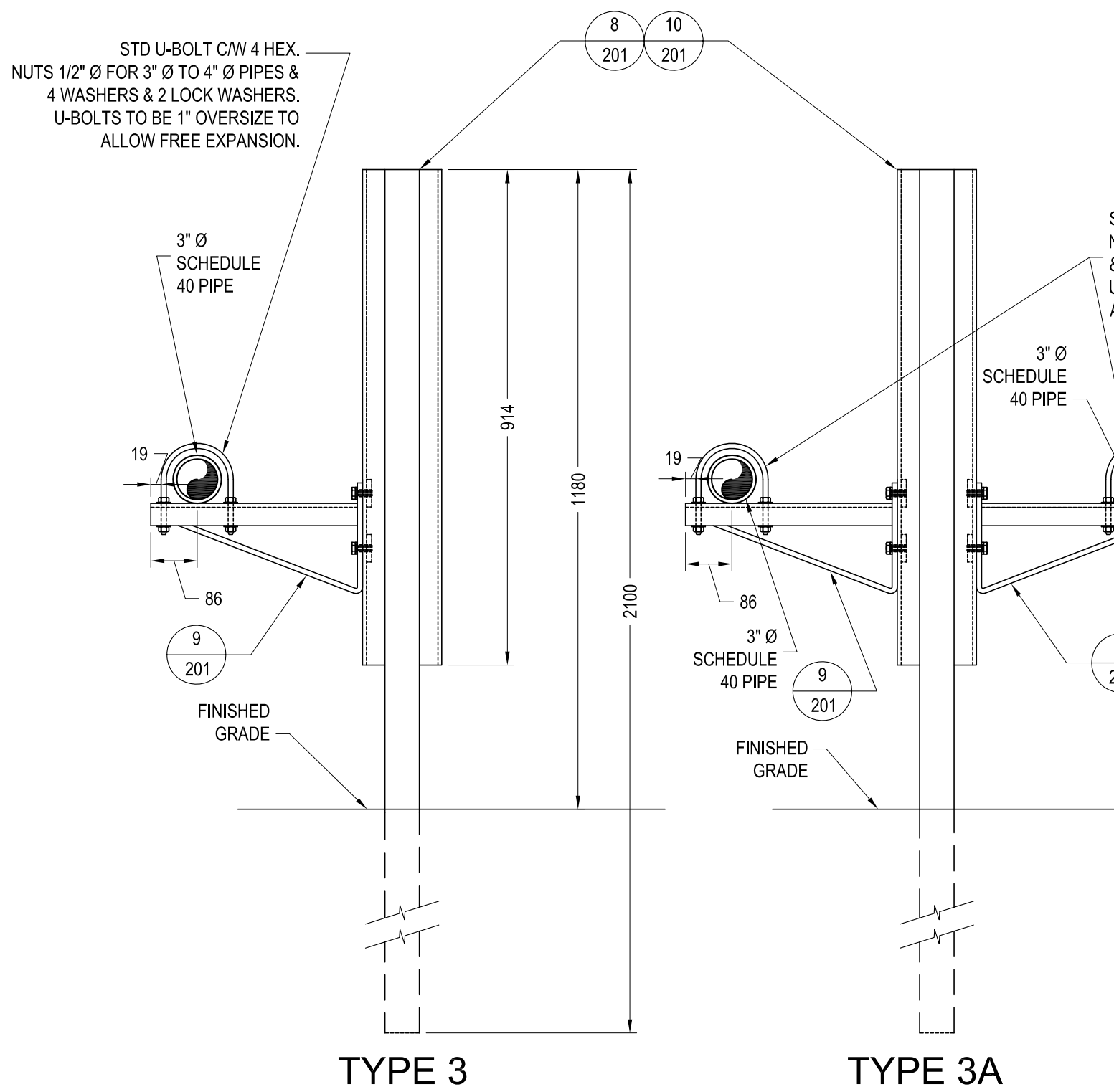
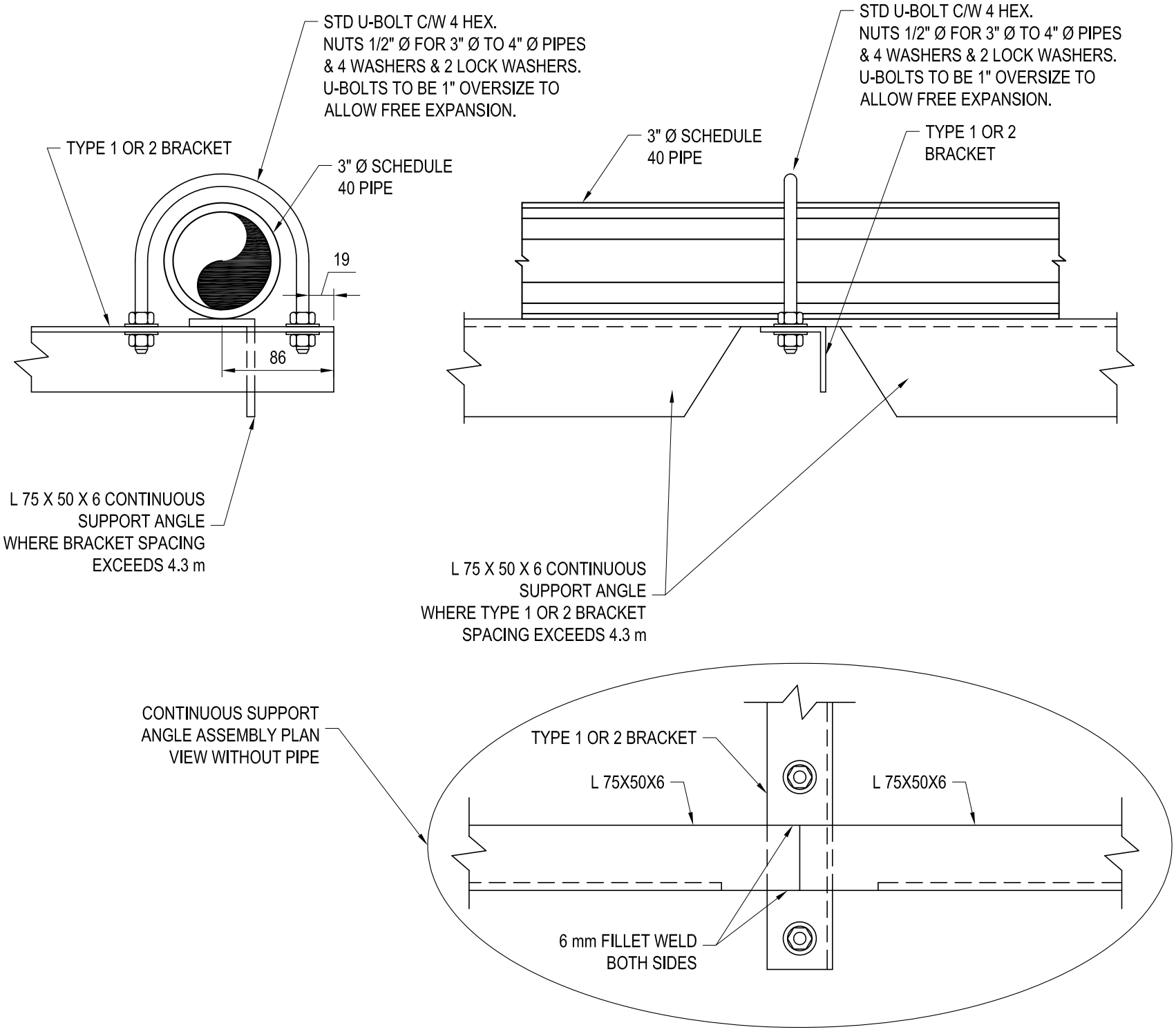
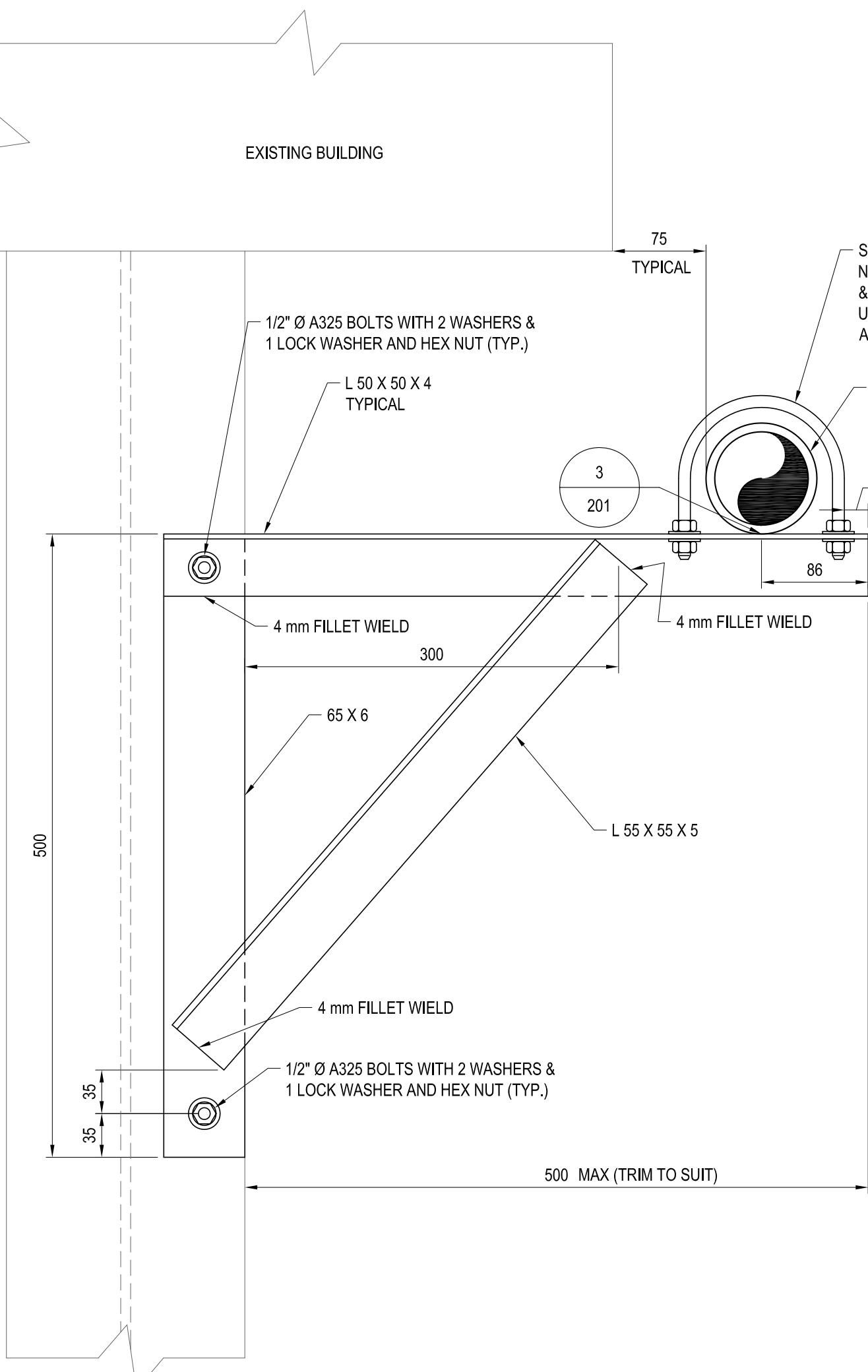
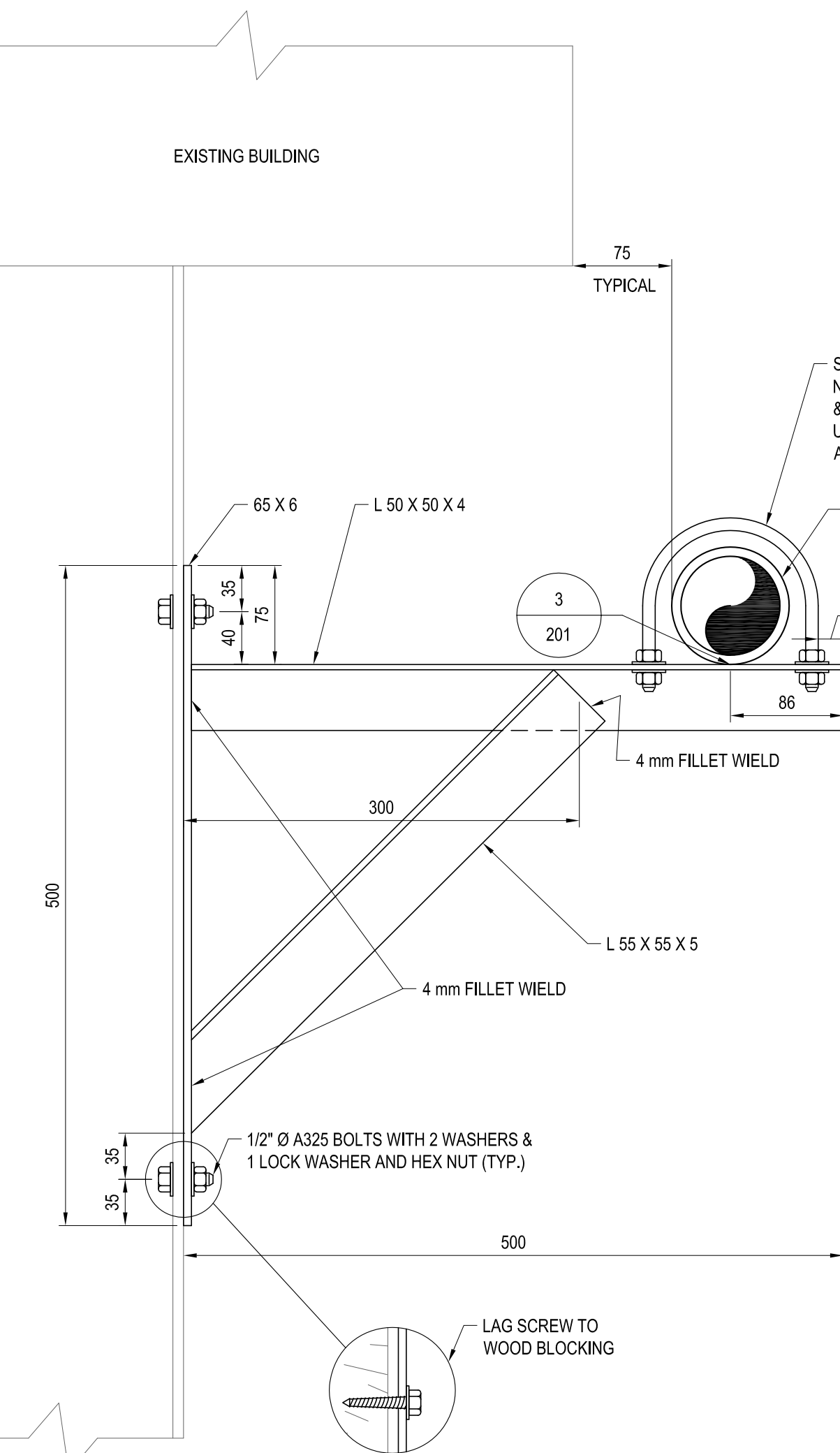
UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

TRADE-MÉTIER **STRUCTURAL** DATE 2011-11-15

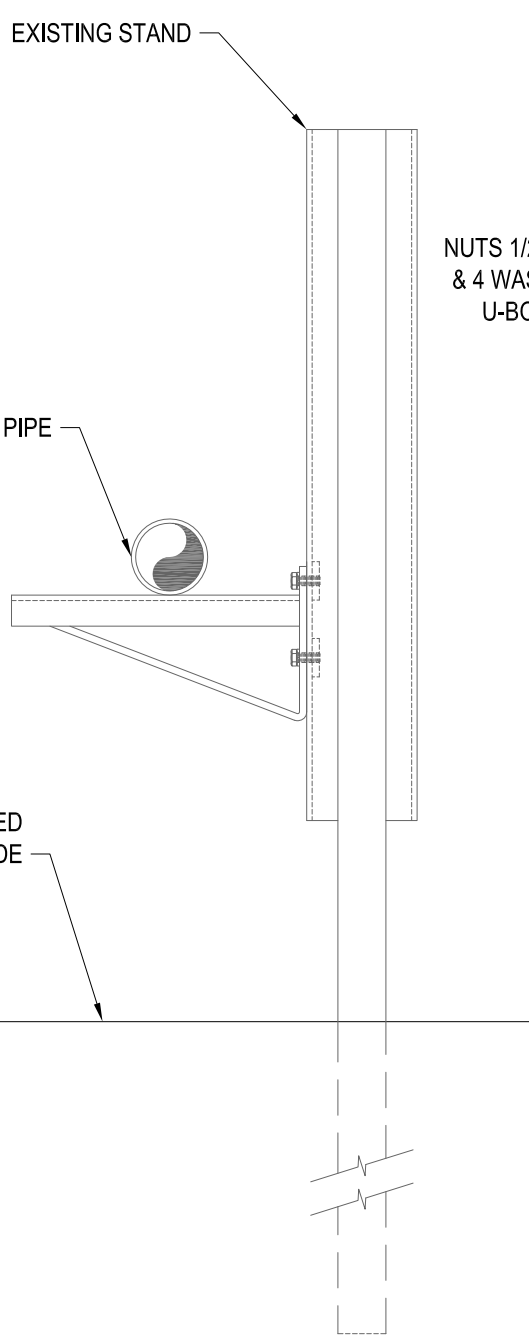
TYPICAL PIPE SUPPORT DETAILS

PRODUCTION	CONCURRENCE-ASSENTMENT	
DESIGNED ÉTUDE	USERS GROUP	
DRAWN DESSINE		P.J.P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ		FIRE CHIEF CAPT.P.MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S.CHINNATAMBY, ENG O	
DWG.NO.-DESSIN NO.	L - A28 -9312/3 - 201	



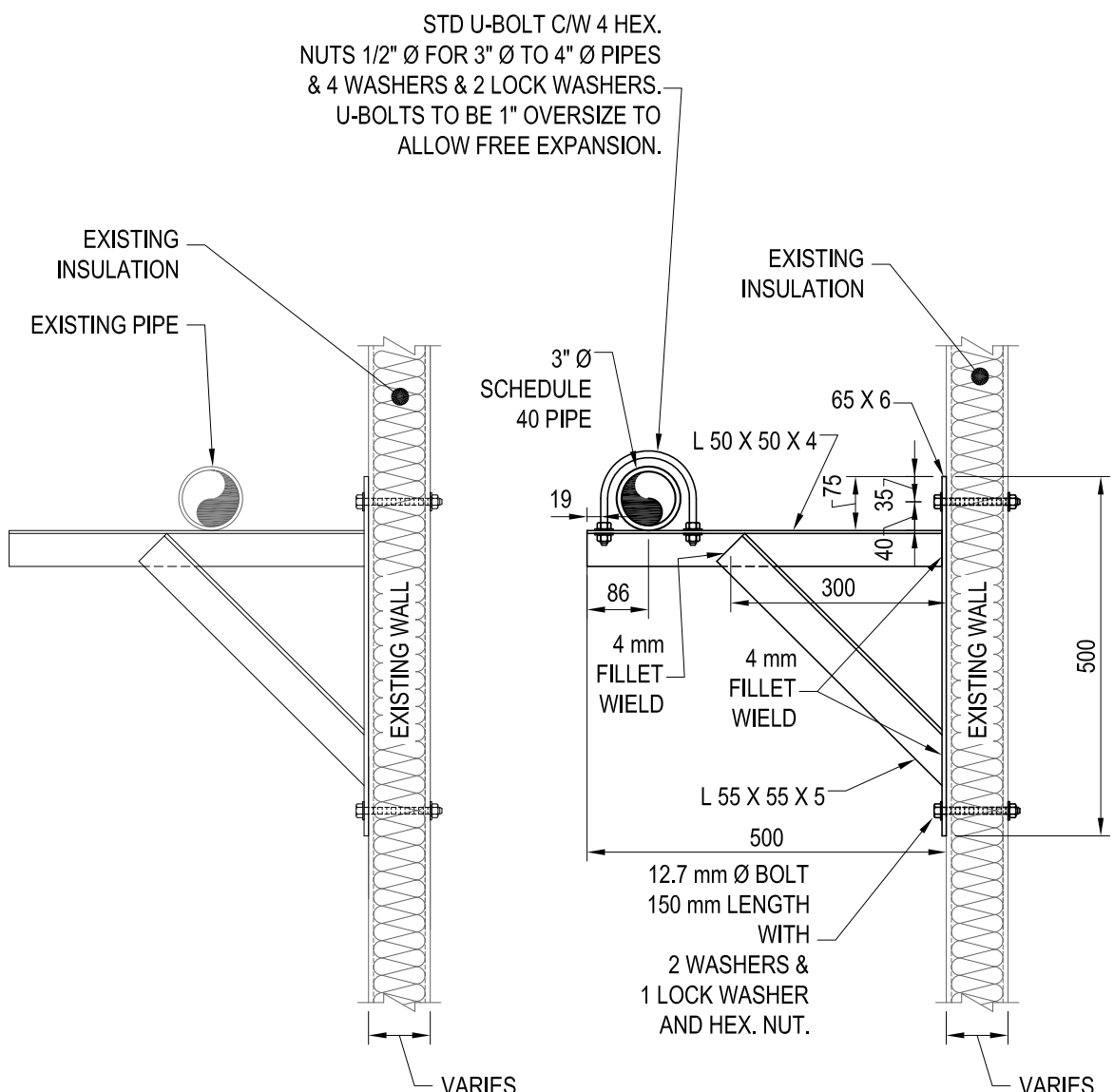
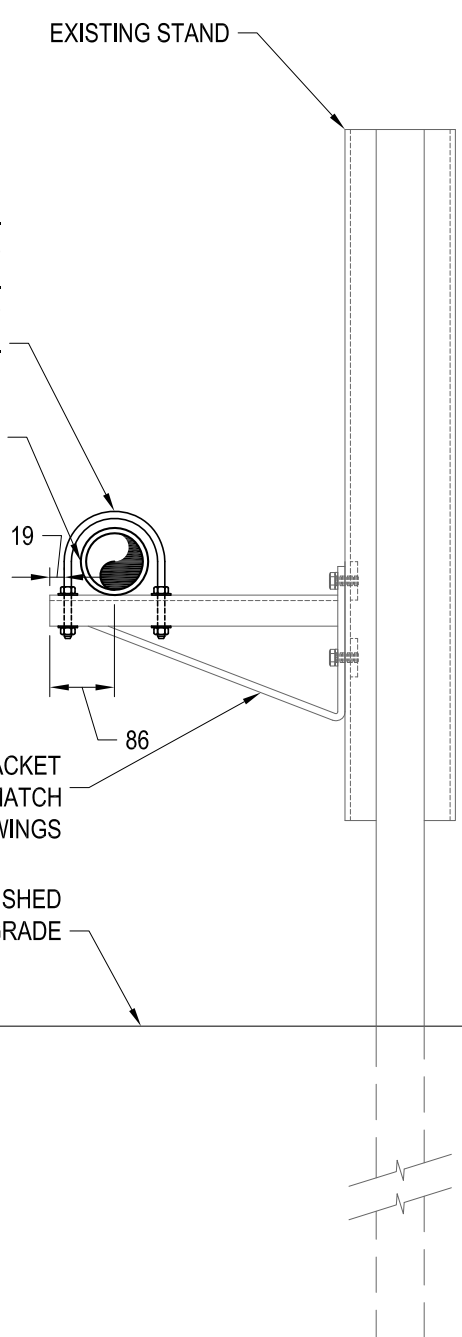
TYPE 4 NEW SUPPORT BRACKET  
DETAIL ON EXISTING STAND

SCALE: NTS



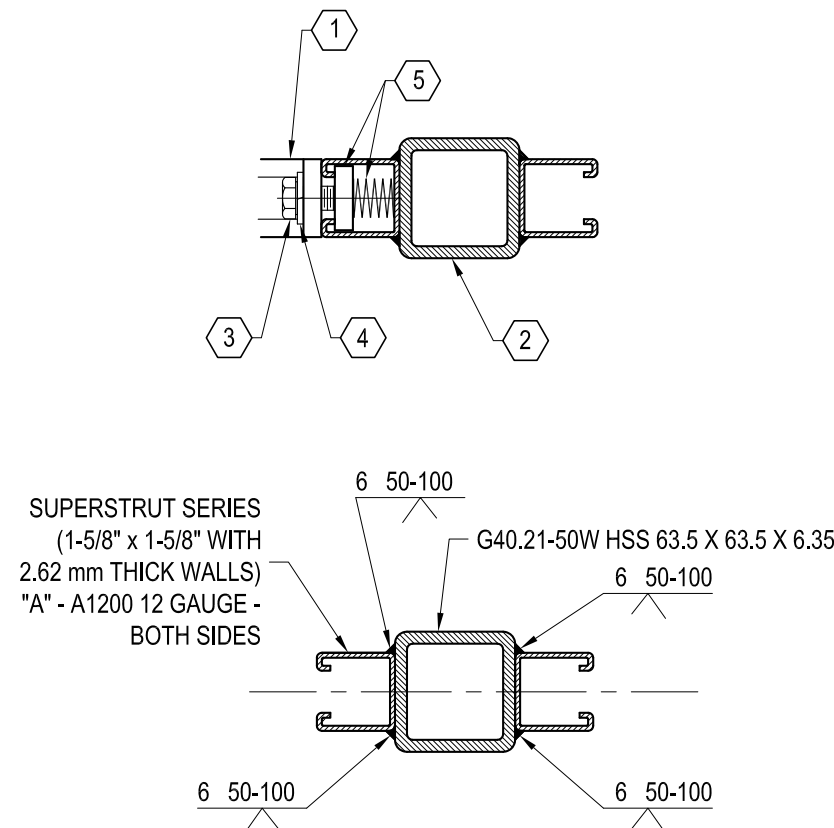
TYPE 5 NEW PIPING INSTALL  
ON EXISTING BRACKET

SCALE: NTS



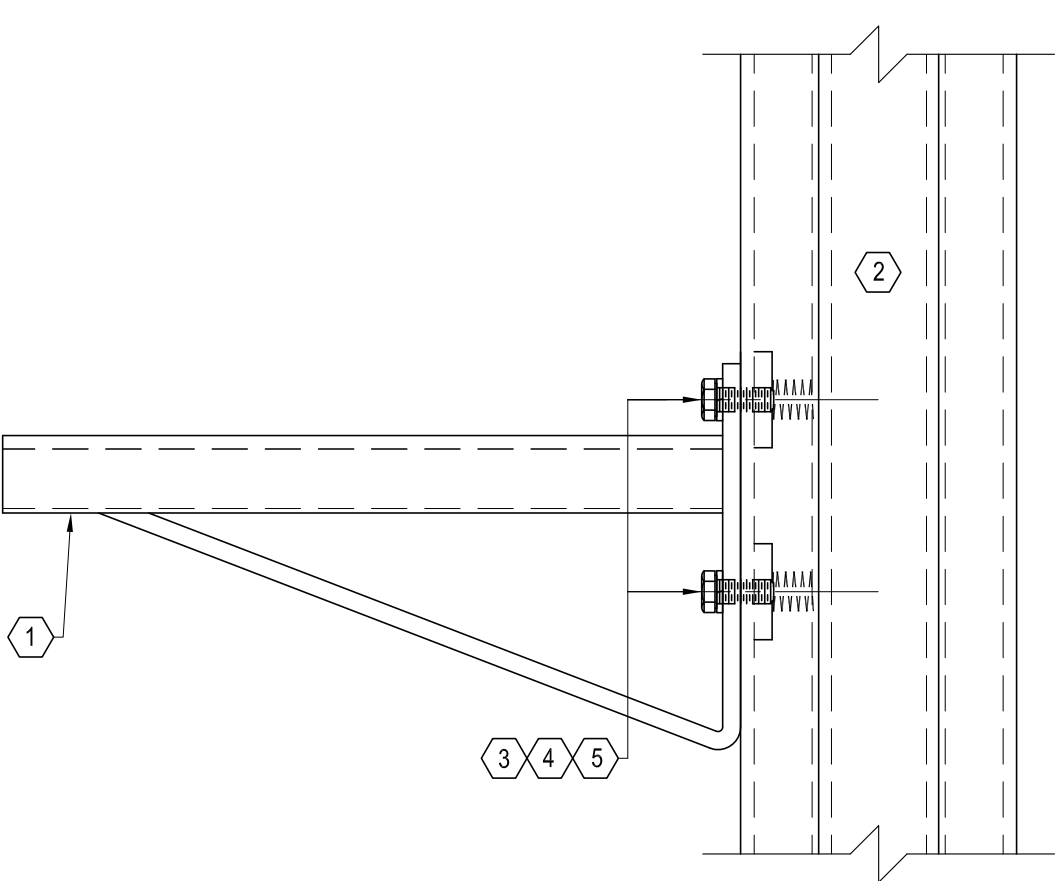
TYPE 9 NEW WALL BRACKET

SCALE: NTS



PIPE SUPPORT DETAILS - PLAN VIEW

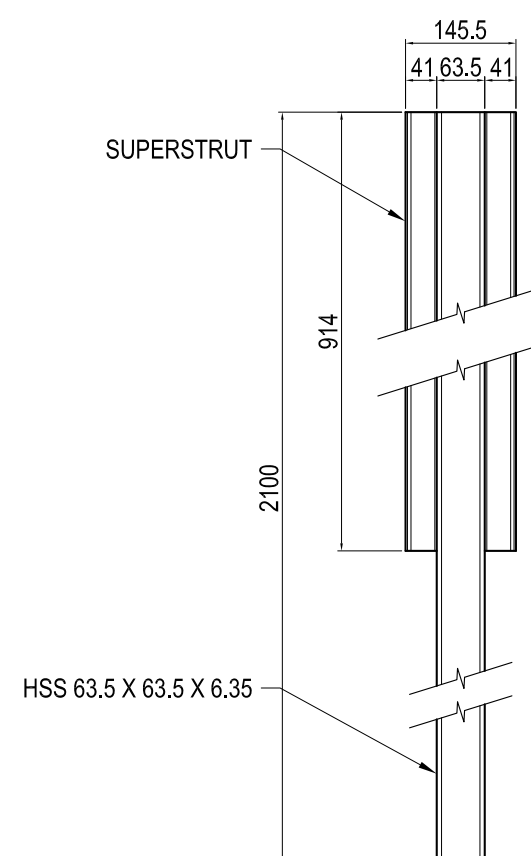
SCALE: N.T.S.



PIPE SUPPORT DETAILS

SCALE: N.T.S.

PIPE SUPPORTS SCHEDULE	
TAG	DESCRIPTION
①	PREFABRICATED CANTILEVER BRACKET
②	BRACKET SUPPORT POST ASSEMBLY - PREFABRICATED
③	BRACKET BOLTS: 1/2" x 1-1/2"
④	BRACKET LOCK WASHER: 1/2"
⑤	STD. SPRING NUT 1/2"



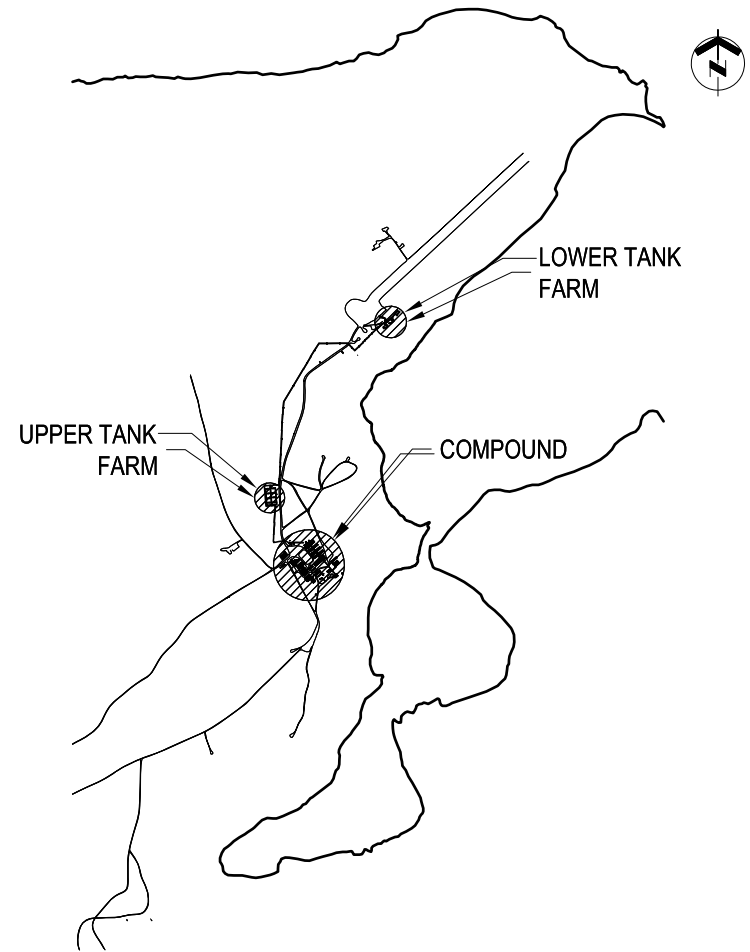
PIPE SUPPORT POST ASSEMBLY

SCALE: N.T.S.

NOTE:

HOT DIP GALVANIZE ASSEMBLED UNIT - AFTER WELDING

1. MANUFACTURE METAL FABRICATION TO DIMENSIONS INDICATED.
2. ALL WELDS TO BE SHOP WELDS BY CERTIFIED WELDERS.
3. WELD AND WELDING MATERIALS TO CSA W59
4. WELDING ELECTRODES TO CSA W48 SERIES.
5. HOT DIPPED GALVANIZING WITH ZINC COATING 600 g/m<sup>2</sup> TO CAN/CSA-G164.
6. CHANNELS TO BE SUPERSTRUT A1200 12 GAUGE BARE FINISH.
7. CUT SUPERSTRUT TO REQUIRED LENGTHS. MAKE CUTS STRAIGHT AND TRUE. FILE AND REMOVE ANY BURRS OR SHARP EDGES.
8. WELD SUPERSTRUT TO HSS. MAKE COMPONENT SQUARE PLUMB AND TRUE WITH TIGHTLY FITTED JOINTS. REJECT ANY MATERIAL WITH DEFECTS, BENDS OR NOT STRAIGHT AND TRUE.
9. GRIND OFF ACCESS WELD AND SLAG. FINISH COMPLETE ASSEMBLY WITH HOT DIPPED GALVANIZED ZINC COATING.



KEY PLAN N.T.S.

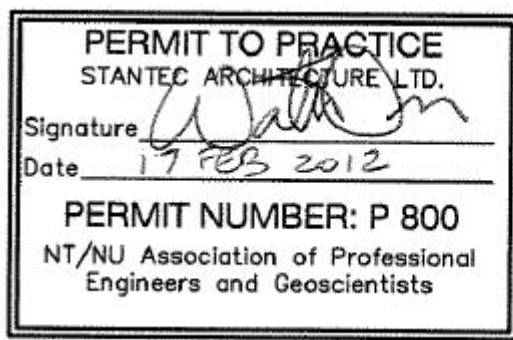
GENERAL NOTES

1. PIPE SIZES SHOWN IN NPS (INCHES).
2. DIMENSION SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
3. FIELD VERIFY ALL MEASUREMENTS.
4. PIPE SUPPORTS TYPE 6, 7 AND 8 ARE NEW PIPE SUPPORTS.
5. U-BOLTS TO BE INSTALLED (ON ALTERNATING PIPE IF APPLICABLE) ON EVERY THIRD SUPPORT. TYPICAL FOR ALL.
6. ALL STEEL PIPE SUPPORT STEEL SHALL BE GALVANIZED. GALVANIZING TO CONFORM TO CSA-G164-M.

LEGEND

DO NOT SCALE DRAWINGS

01	17/02/2012	ISSUED FOR CONSTRUCTION	WO
NO.	DATE	REVISION	APPR.



SCALE-ÉCHELLE AS NOTED

PROJECT-PROJET PF#: 68352

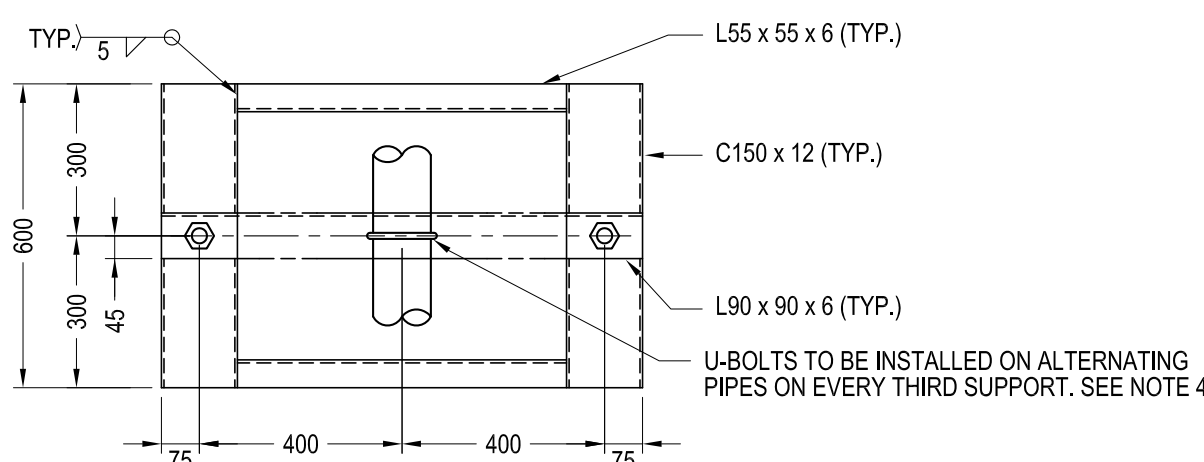
UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

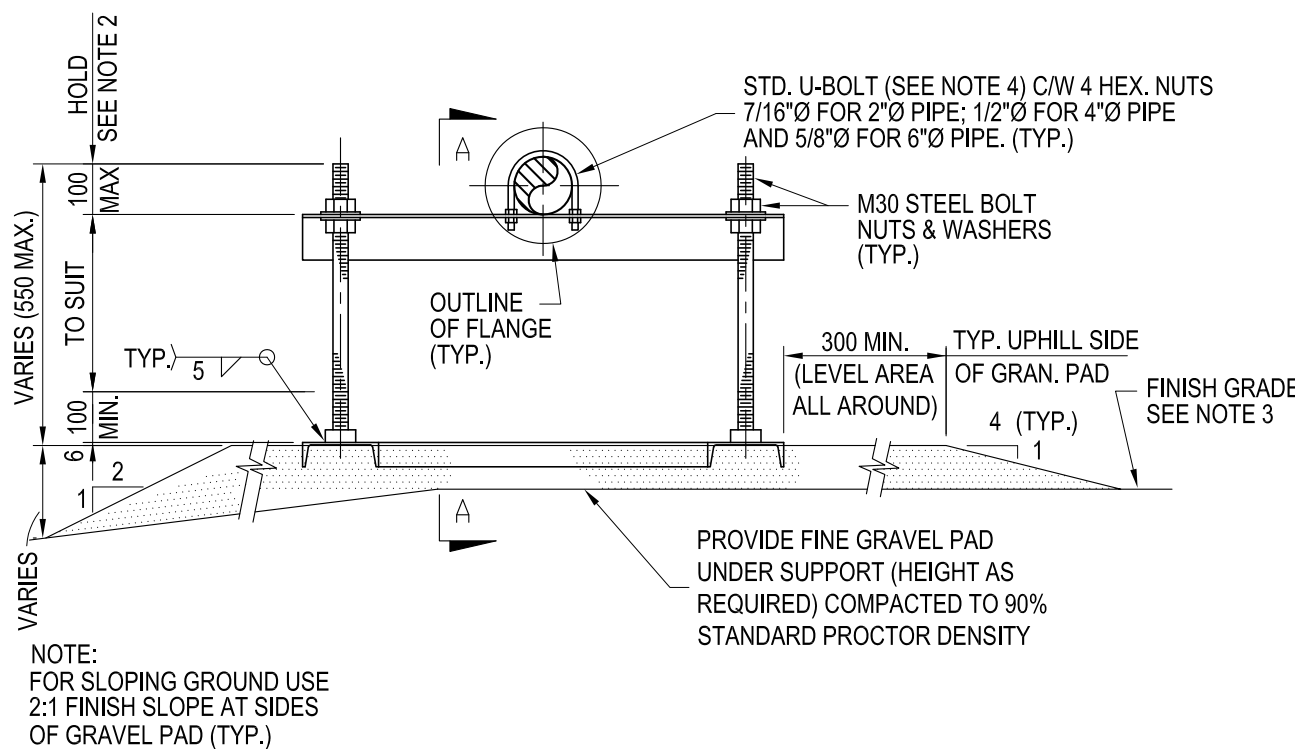
TRADE-MÉTIER CIVIL/STRUCTURAL DATE 2011-11-15

PIPE SUPPORT, BERM & MISC DETAILS

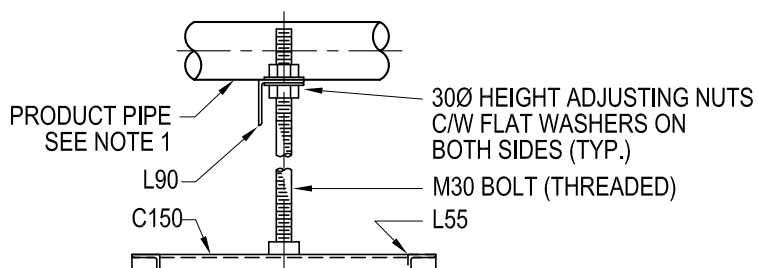
PRODUCTION	CONCURRENCE-ASSENTIMENT	
	USERS GROUP	
DESIGNED ÉTUDE		
DRAWN DESSINE		P. J. P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ		FIRE CHIEF CAPT. P. MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S. CHINNATAMBY, ENG O	
DWG.NO.-DESSIN NO.	L - A28 -9312/3 - 202	



PLAN



ELEVATION

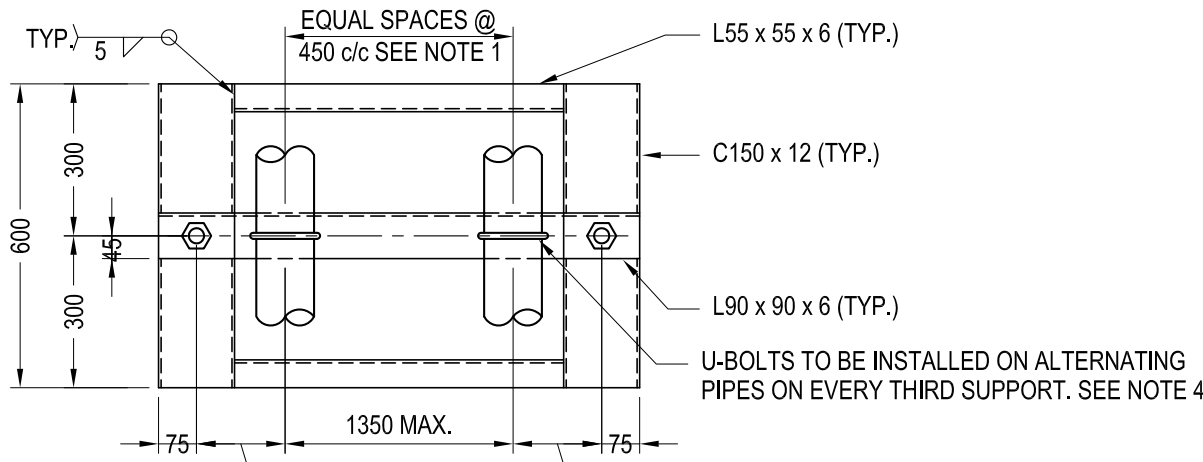


SECTION A-A

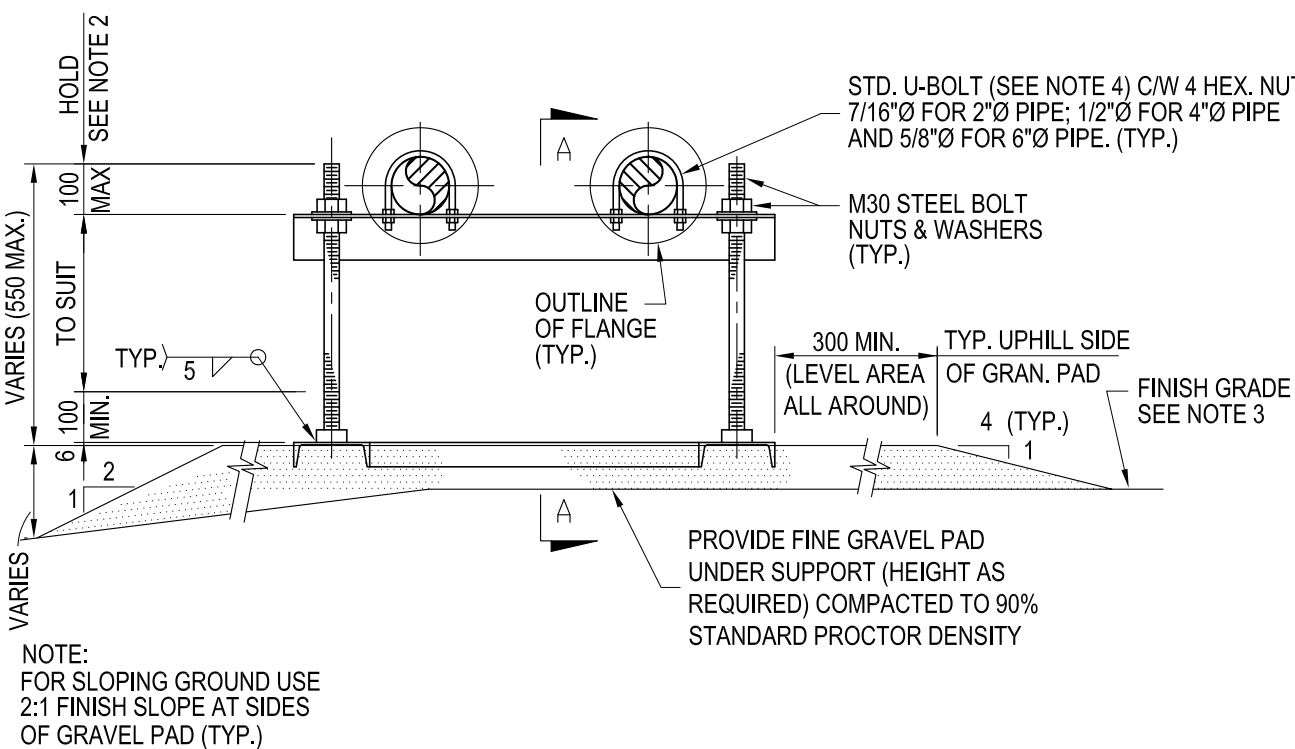
NOTES:

- 1- FOR NUMBER & SIZE OF PRODUCT PIPES SEE PARTICULAR PROJECT DRAWINGS.
- 2- BOLTS TO BE CUT AS SHOWN AFTER INSTALLATION AND FINAL ADJUSTMENT.
- 3- FOR FINISH ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
- 4- U-BOLTS TO BE 1\"/>

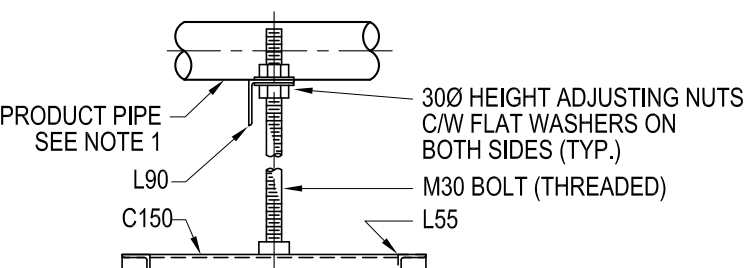
1  
202 TYPE 6 PIPE SUPPORT DETAILS  
SCALE: 1:15



PLAN



ELEVATION

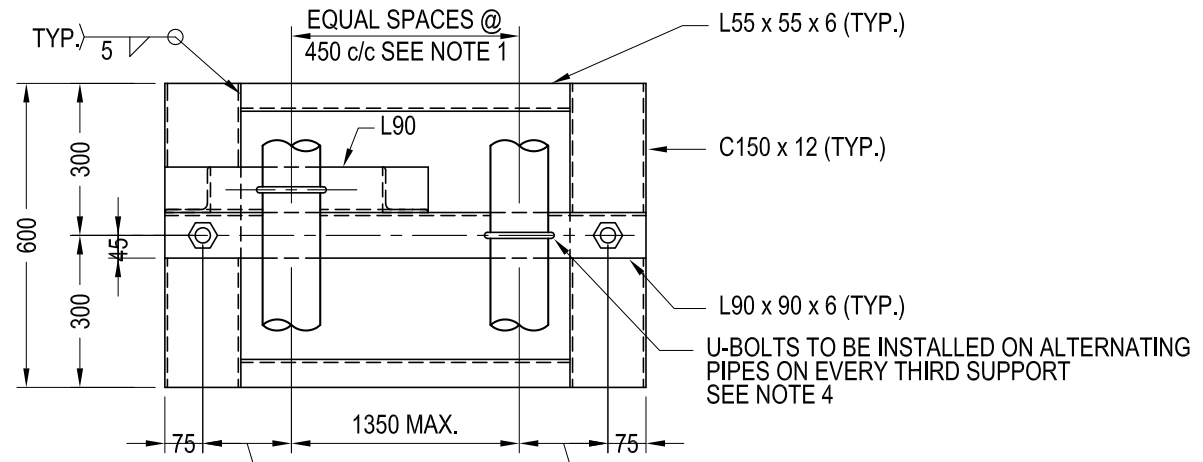


SECTION A-A

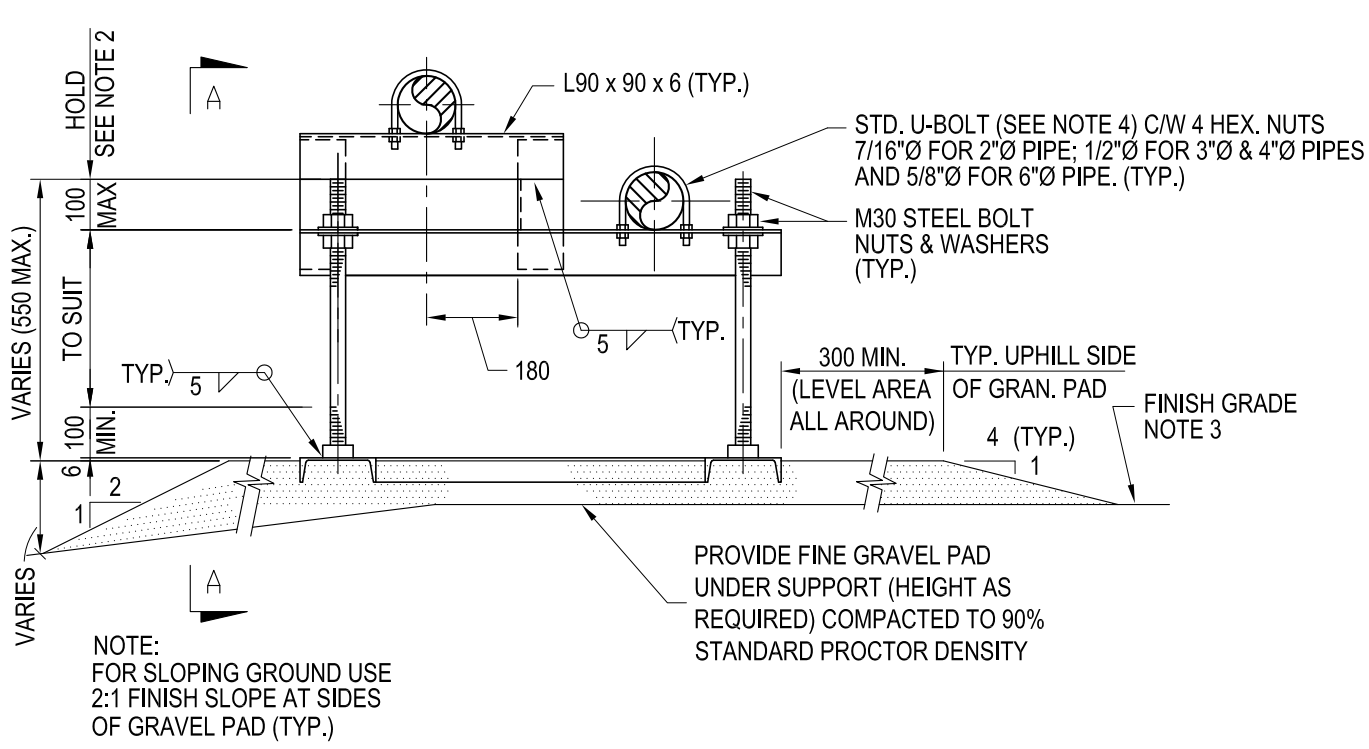
NOTES:

- 1- FOR NUMBER & SIZE OF PRODUCT PIPES SEE PARTICULAR PROJECT DRAWINGS.
- 2- BOLTS TO BE CUT AS SHOWN AFTER INSTALLATION AND FINAL ADJUSTMENT.
- 3- FOR FINISH ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
- 4- U-BOLTS TO BE 1\"/>

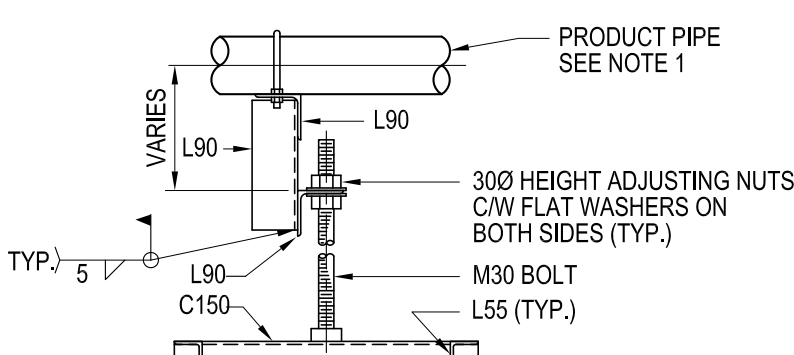
2  
202 TYPE 7 PIPE SUPPORT DETAILS  
SCALE: 1:15



PLAN



ELEVATION



SECTION A-A

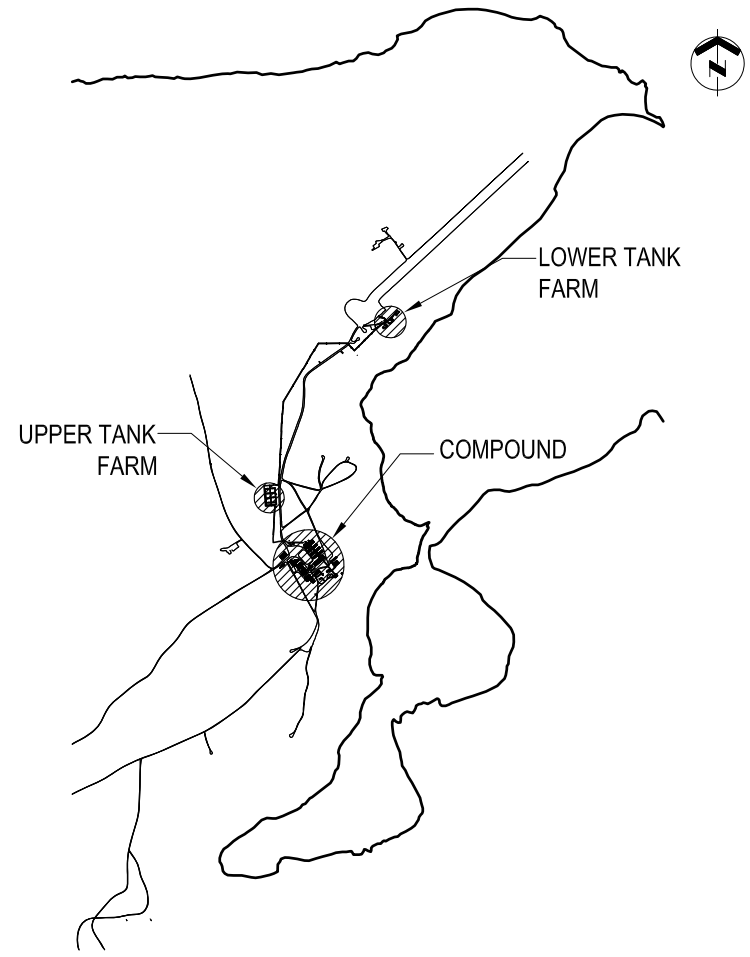
NOTES:

- 1- FOR NUMBER & SIZE OF PRODUCT PIPES SEE PARTICULAR PROJECT DRAWINGS.
- 2- BOLTS TO BE CUT AS SHOWN AFTER INSTALLATION AND FINAL ADJUSTMENT.
- 3- FOR FINISH ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
- 4- U-BOLTS TO BE 1\"/>

3  
202 TYPE 8 PIPE SUPPORT DETAILS  
SCALE: 1:15



WING CONSTRUCTION ENGINEERING SQUADRON  
8 WING, TRENTON, ONTARIO



KEY PLAN N.T.S.

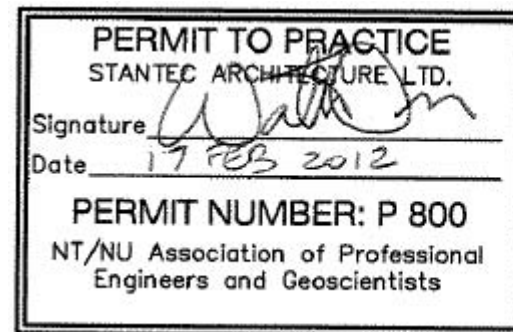
GENERAL NOTES

1. PIPE SIZES SHOWN IN NPS (INCHES).
2. DIMENSION SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
3. FIELD VERIFY ALL MEASUREMENTS.
4. U-BOLTS TO BE INSTALLED ON EVERY SUPPORT. TYPICAL FOR ALL.
5. ALL STEEL PIPE SUPPORT STEEL SHALL BE GALVANIZED. GALVANIZING TO CONFORM TO CSA-G164-M.

LEGEND

DO NOT SCALE DRAWINGS

01	17/02/2012	ISSUED FOR CONSTRUCTION	WO
NO.	DATE	REVISION	APPR.



SCALE-ÉCHELLE AS NOTED

PROJECT-PROJET PF#: 68352

UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

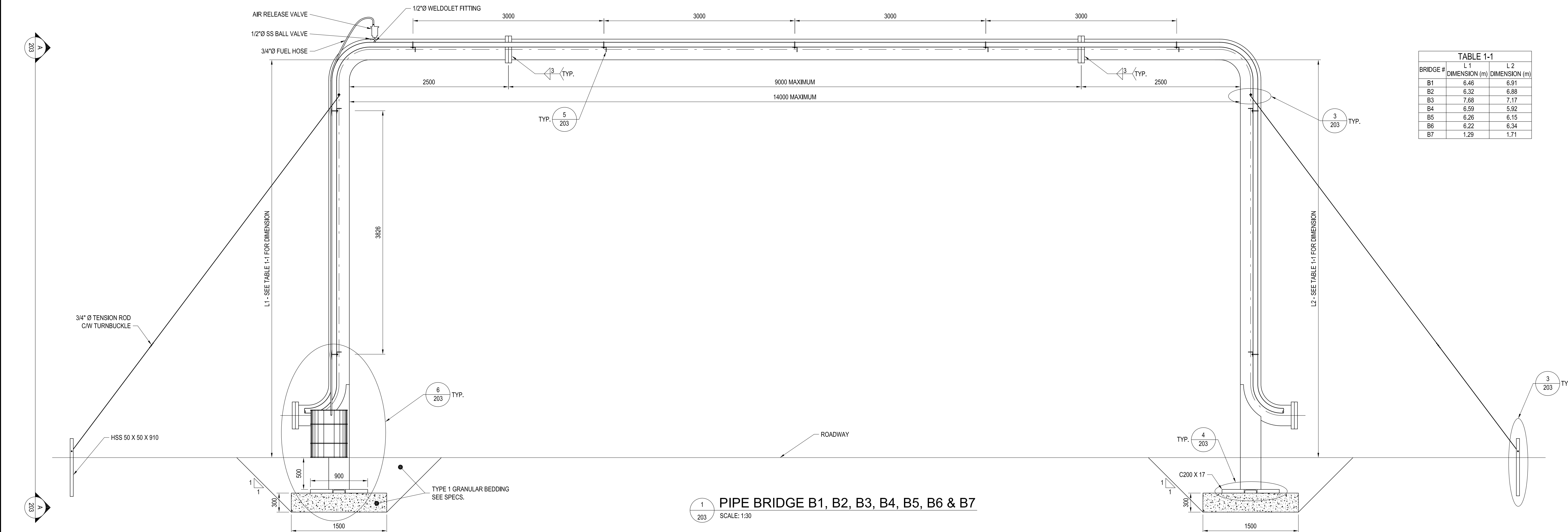
TRADE-MÉTIER STRUCTURAL DATE 2011-11-15

PIPE BRIDGE & MISC DETAILS

PRODUCTION	CONCURRENCE-ASSENTMENT	
DESIGNED ÉTUDE	USERS GROUP	
DRAWN DESSINE		P.J.P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ		FIRE CHIEF CAPT.P.MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S.CHINNATAMBY, ENG O	

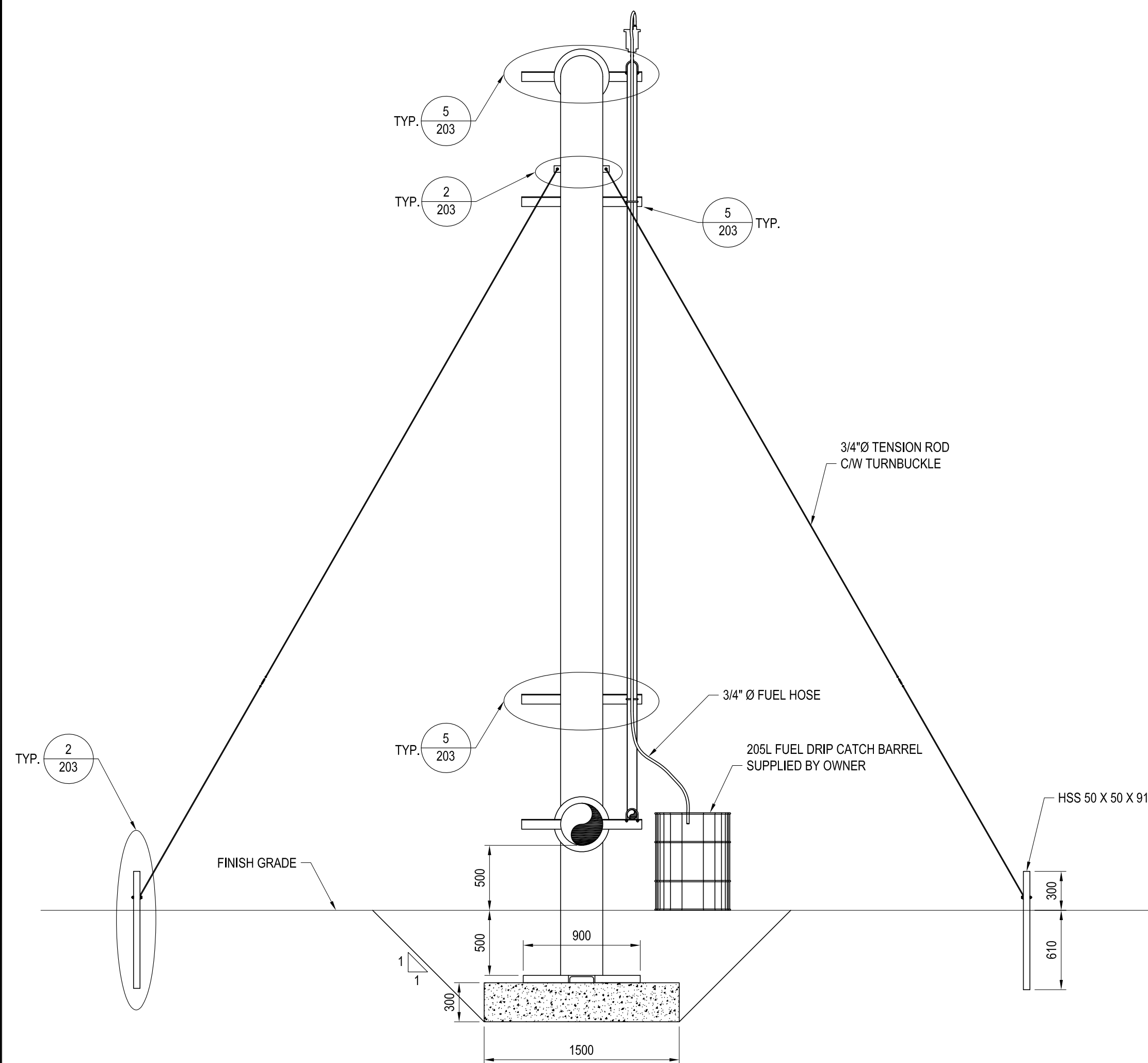
DWG.NO.-DESSIN NO. L - A28 -9312/3 - 203

Canada



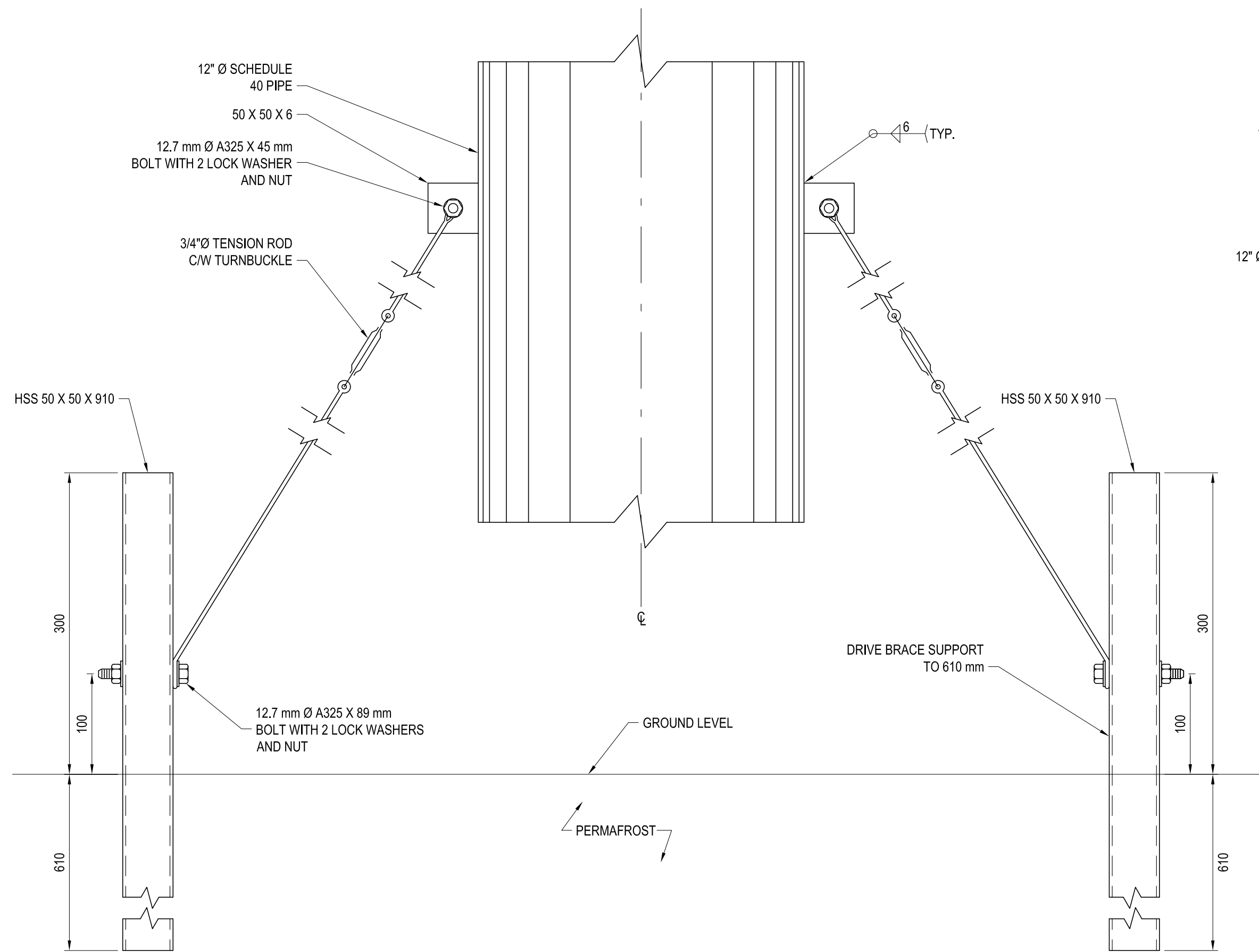
1 PIPE BRIDGE B1, B2, B3, B4, B5, B6 & B7

SCALE: 1:30



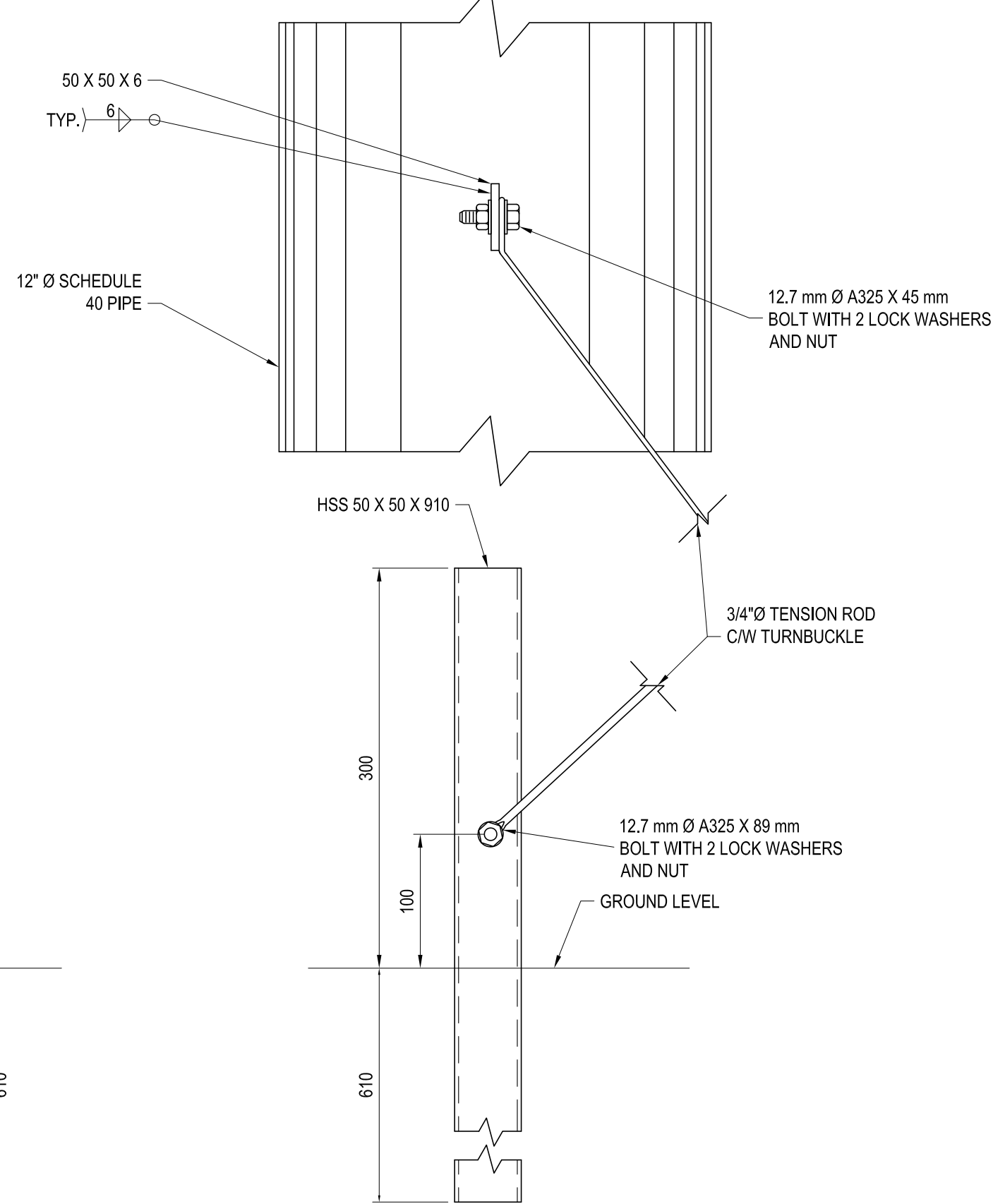
PIPE BRIDGE SECTION

SCALE: 1:30



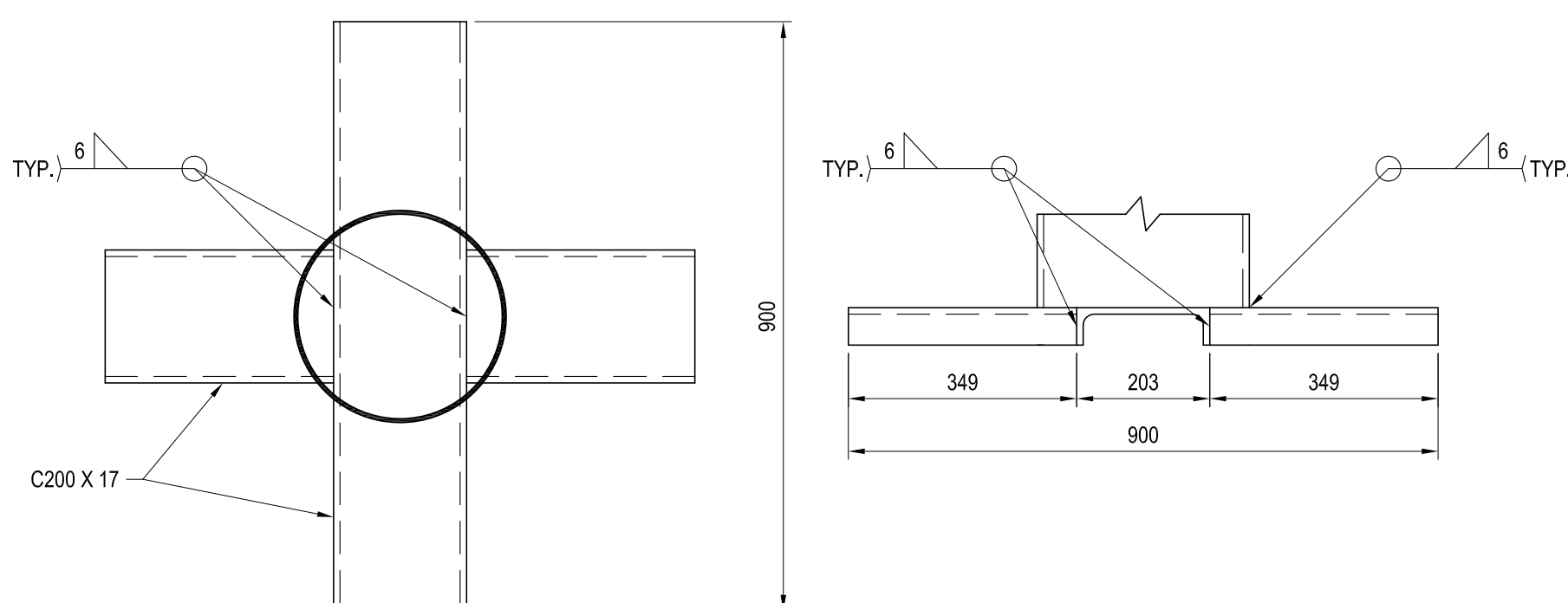
2 BRACE DETAIL

SCALE: 1:4



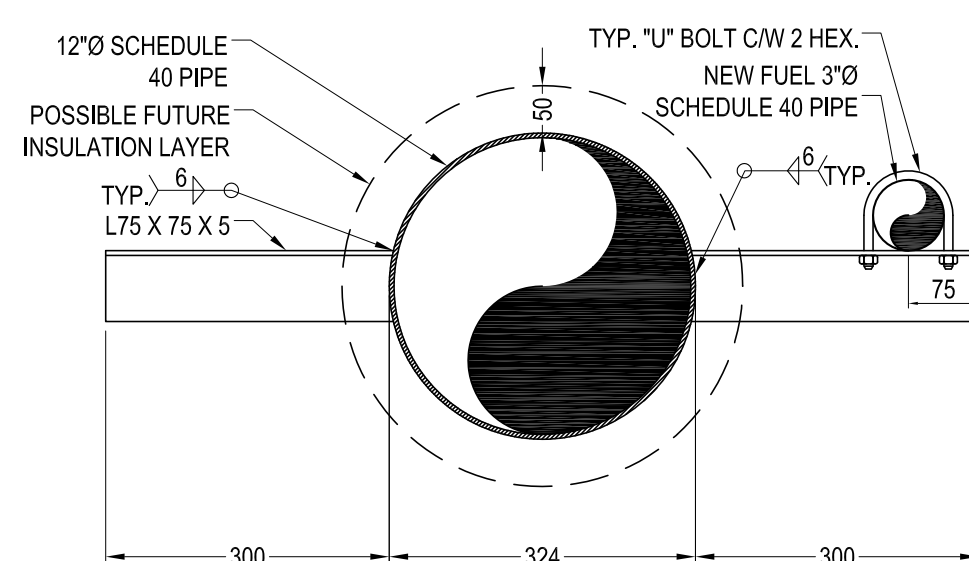
3 BRACE DETAIL

SCALE: 1:4



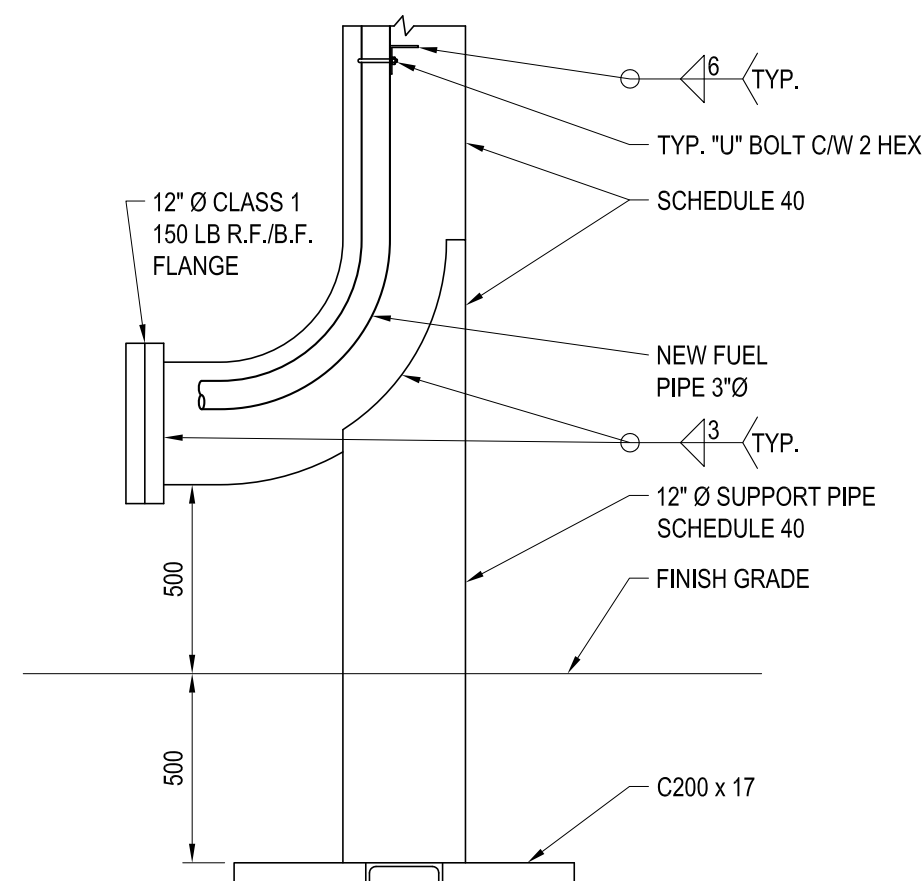
4 STEEL FOUNDATION DETAIL

SCALE: 1:10



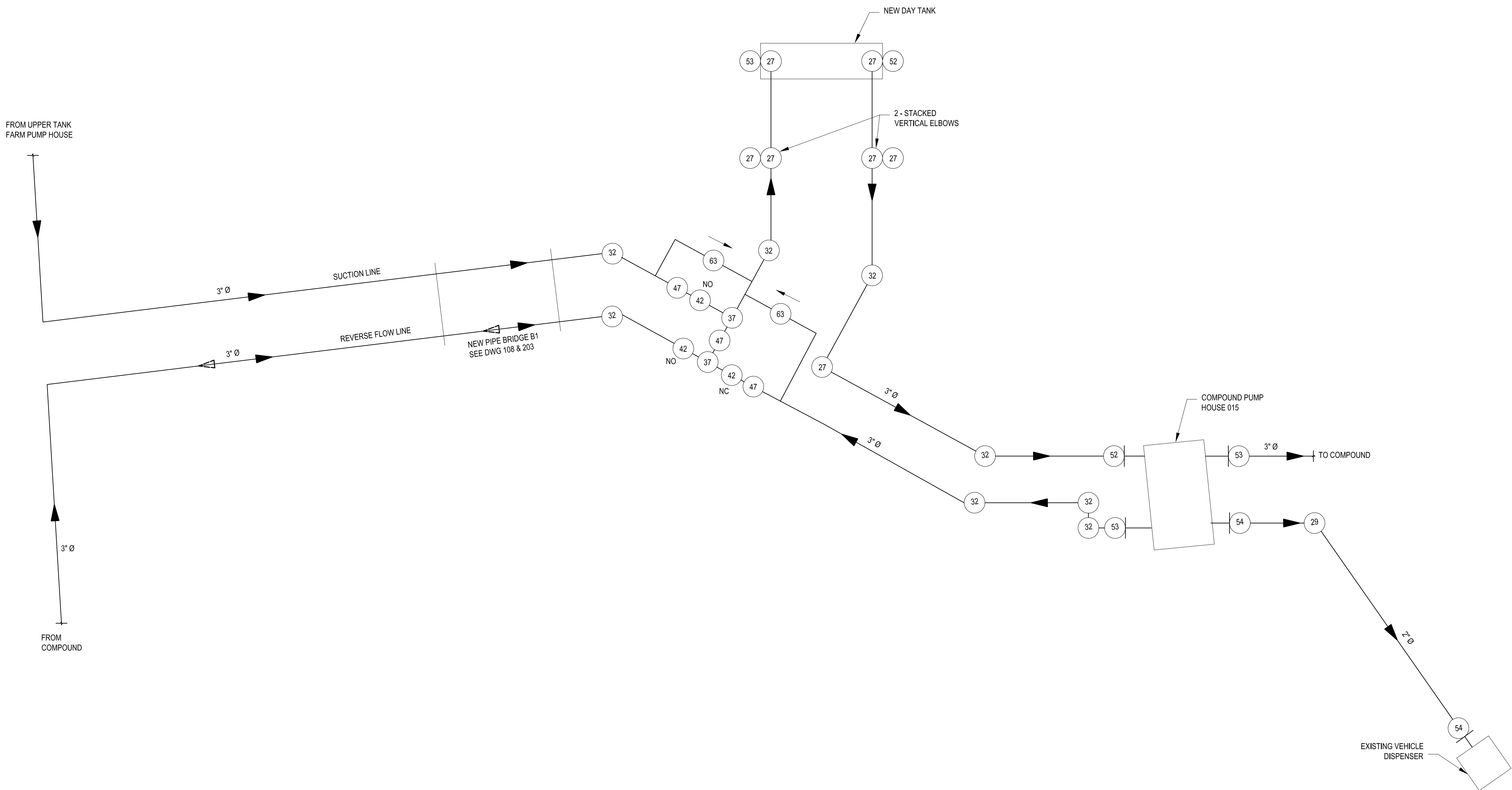
5 PIPE DETAIL

SCALE: 1:8



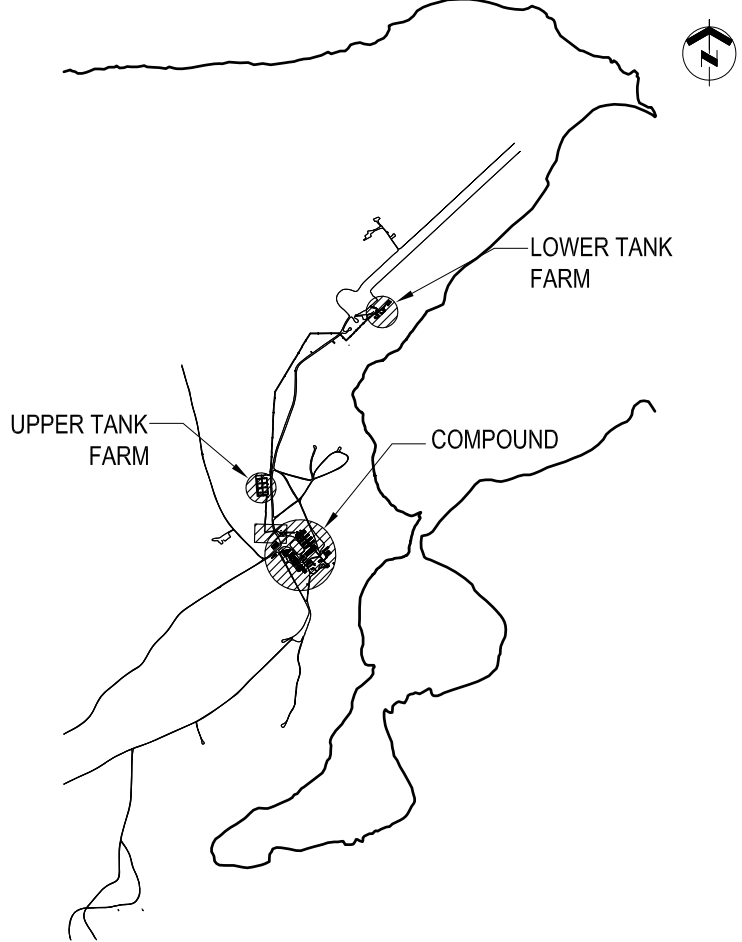
6 PIPE SUPPORT DETAIL

SCALE: 1:20



SCHEDULE OF MATERIALS - NEW DAY TANK		
No.	Nom. Size	Description
27	3" Ø	ELBOW, 90 deg., SCH. 40
29	2" Ø	ELBOW, 90 deg., SCH. 40
32	3" Ø	ELBOW, 45 deg., B.W., SCH. 40
37	3" Ø	STRAIGHT TEE, SCH. 40
42	3" Ø	GATE VALVE, (SEE SPECS)
47	3" Ø	CHECK VALVE (SEE SPECS)
52	3" Ø	FLEXIBLE CONNECTOR, 810 LG.
53	3" Ø	FLEXIBLE CONNECTOR, 406 LG.
54	2" Ø	FLEXIBLE CONNECTOR, 309 LG.
63	1" Ø	THERMAL PRESSURE RELIEF VALVE THREADED ENDS, PRESET AT 172 kPa (25 P.S.I.)

WING CONSTRUCTION ENGINEERING SQUADRON  
8 WING,    TRENTON,    ONTARIO



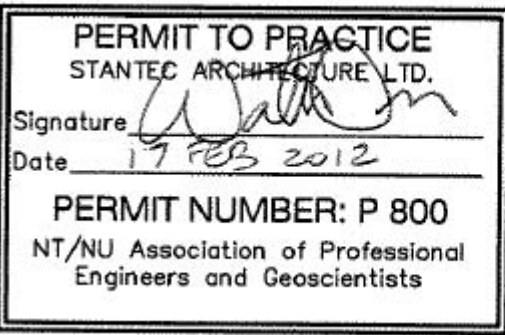
K E Y   P L A N                    N. T. S.

- GENERAL NOTES
- ALL PIPE SIZES SHOWN IN NPS (INCHES).
  - PRESSURE RELIEF ASSEMBLIES NOT SHOWN FOR CLARITY. ALL GATE VALVES TO RELIEVE TO THE TANK.
  - ALL FUEL PIPING, FITTINGS AND ALL OTHER APPURTENANCES TO BE NEW.
  - FIELD VERIFY ALL MEASUREMENTS.
  - REFER TO DRAWING 501 FOR STATIC ELECTRICITY GROUNDING CONNECTION DETAILS. PROVIDE AND WELD ALL GROUND LUG PLATES TO PIPING ETC. AT ALL LOCATIONS AS REQUIRED.

- LEGEND
- NO: NORMALLY OPEN  
NC: NORMALLY CLOSED  
➡ DIRECTION OF FLOW  
➞ PRESSURE RELIEF DIRECTION

DO NOT SCALE DRAWINGS

01	17/02/2012	ISSUED FOR CONSTRUCTION	WO
NO.	DATE	REVISION	APPR.



SCALE-ÉCHELLE	NTS
PROJECT-PROJET	PF#: 68352

UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

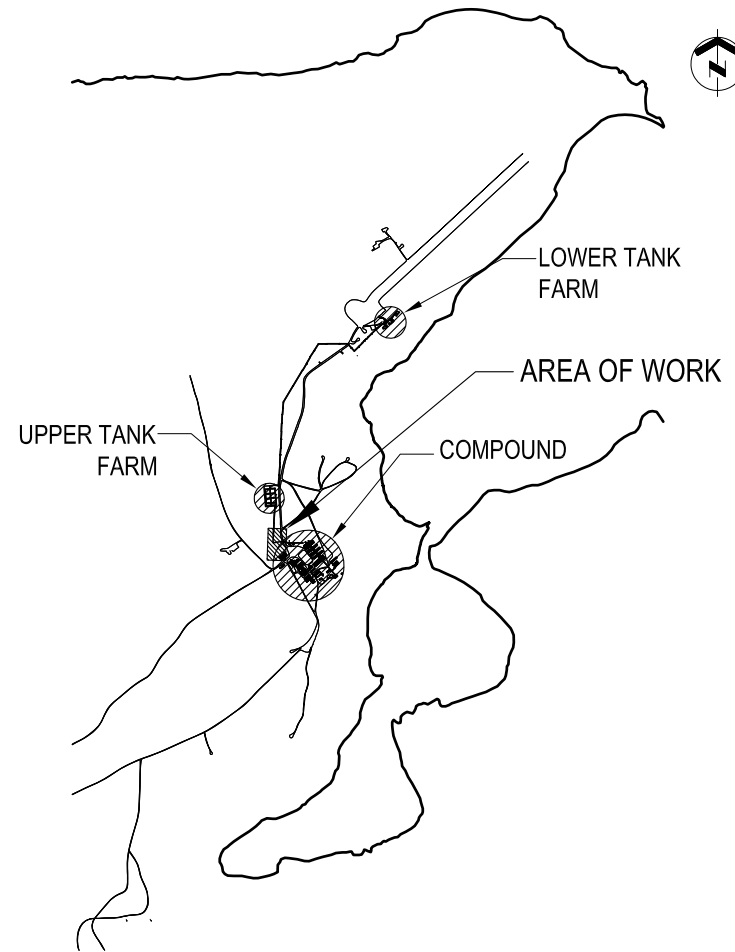
TRADE-MÉTIER	MECHANICAL	DATE	2011-11-15
--------------	------------	------	------------

SCHEMATIC DESIGN  
NEW DAY TANK

PRODUCTION		CONCURRENCE-ASSENTIMENT	
DESIGNED ÉTUDE		USERS GROUP	
DRAWN DESSINE		P.J.P. O'LEARY PROJ. MGR.	
CHECKED VÉRIFIÉ		FIRE CHIEF CAPT.P.MUSCAT-DRAGO	
COORDINATION		APPROVED - APPROUVÉ S.CHINNATAMBY, ENG O	

DWG.NO.-DESSIN NO.	L - A28 -9312/3 - 401
--------------------	-----------------------

PIPING SCHEMATIC FOR NEW DAY TANK & FUEL DISPENSING  
N.T.S.



KEY PLAN N.T.S.

GENERAL NOTES

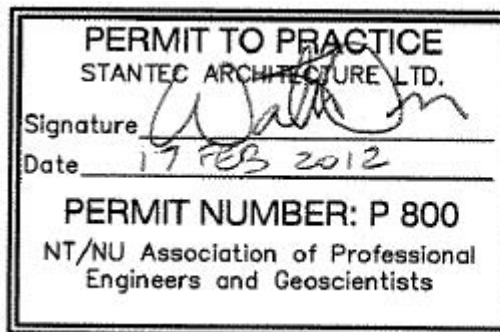
- PIPE SIZES SHOWN IN NPS (INCHES).
- DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
- ALL FUEL PIPING, FITTINGS AND ALL OTHER APPURTENANCES TO BE NEW.
- FIELD VERIFY ALL MEASUREMENTS.
- REFER TO DRAWING 501 FOR STATIC ELECTRICITY GROUNDING CONNECTION DETAILS. PROVIDE AND WELD ALL GROUND LUG PLATES TO PIPING ETC. AT ALL LOCATIONS AS REQUIRED.

LEGEND

BOP:	BOTTOM OF PIPE
ELEV.:	ELEVATION
	GATE VALVE
	PRESSURE RELIEF ASSEMBLY & DIRECTION
	CHECK VALVE
	NEW TYPE 6 PIPE SUPPORT - SEE 1/202
	DIRECTION OF FLOW
	DRAINAGE ARROW

DO NOT SCALE DRAWINGS

01	17/02/2012	ISSUED FOR CONSTRUCTION	WO
NO.	DATE	REVISION	APPR.



SCALE-ÉCHELLE AS SHOW

PROJECT-PROJET PF#: 68352

UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

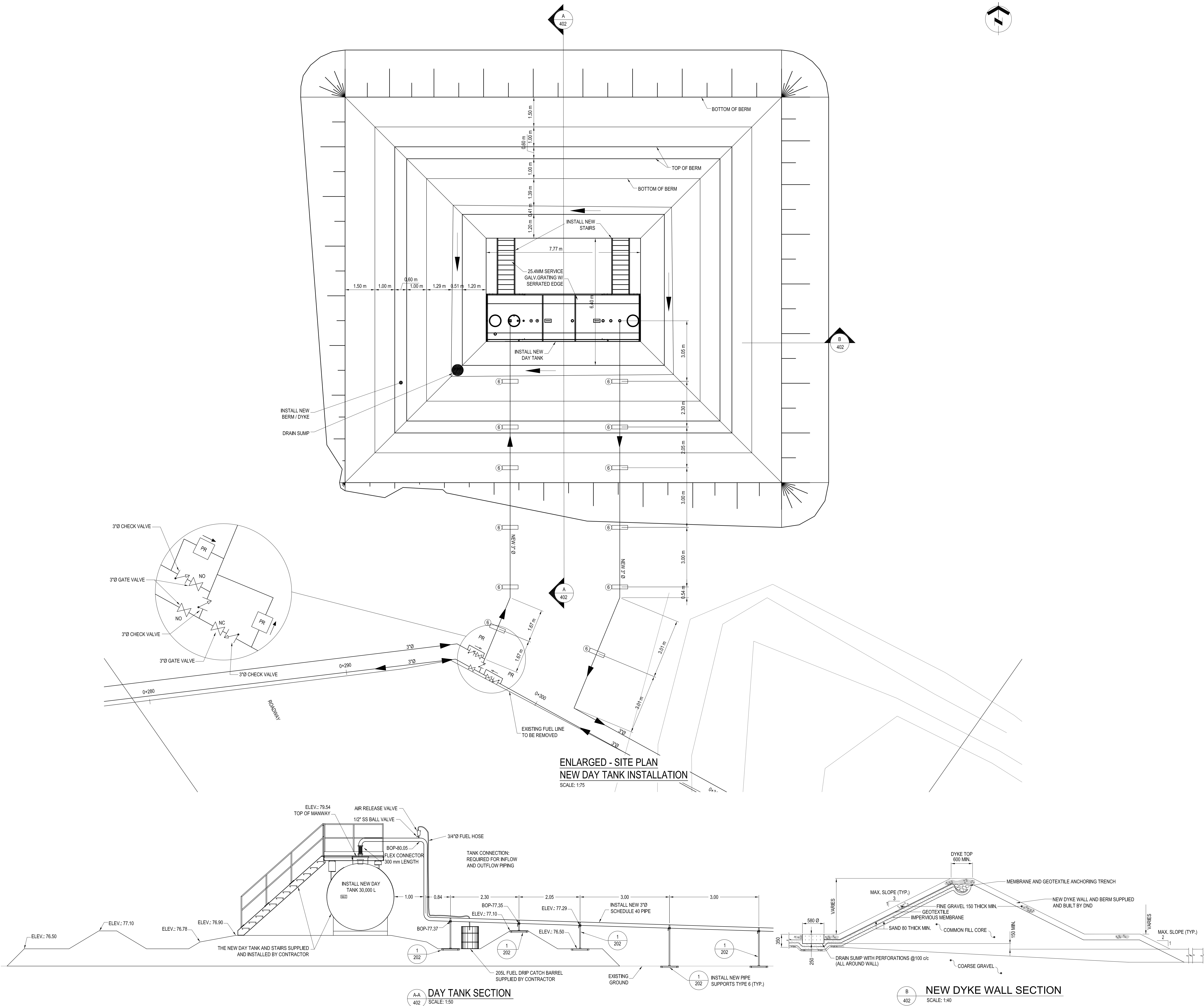
TRADE-MÉTIER MECHANICAL DATE 2011-11-15

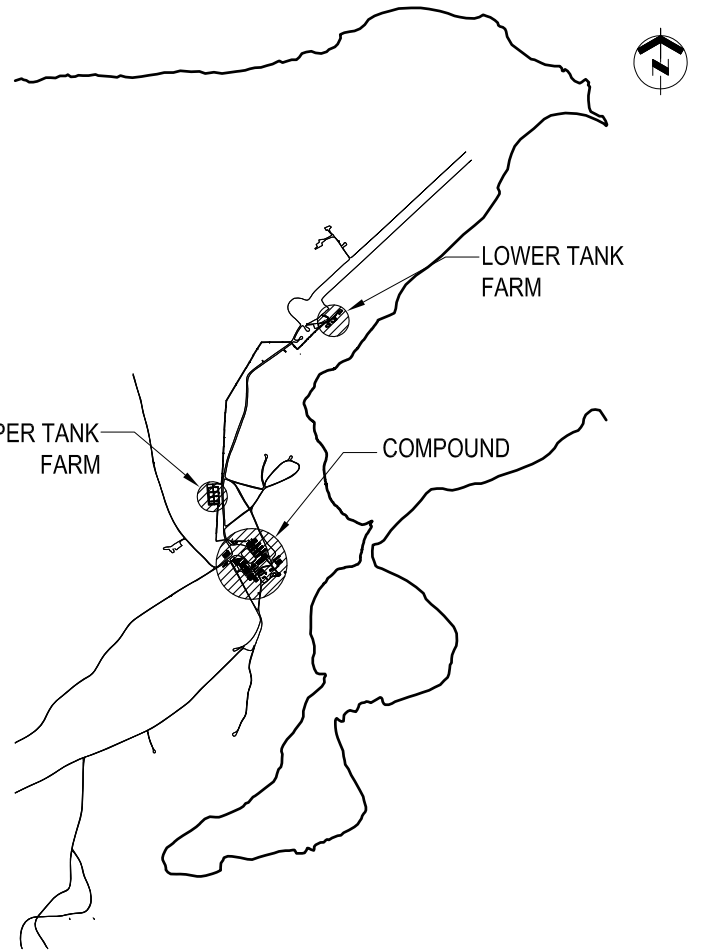
PROPOSED NEW DAY TANK  
ENLARGED PLAN & SECTION

PRODUCTION	CONCURRENCE-ASSENTMENT
DESIGNED ÉTUDE	USERS GROUP
DRAWN DESSINE	P.J.P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIE	FIRE CHIEF CAPT.P.MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S.CHINNATAMBY, ENG O

DWG.NO.-DESSIN NO. L - A28 -9312/3 - 402

Canada

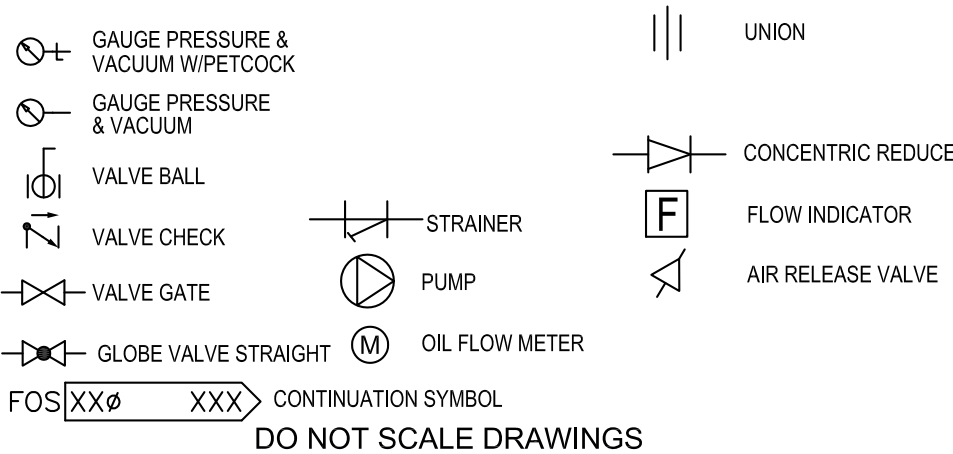




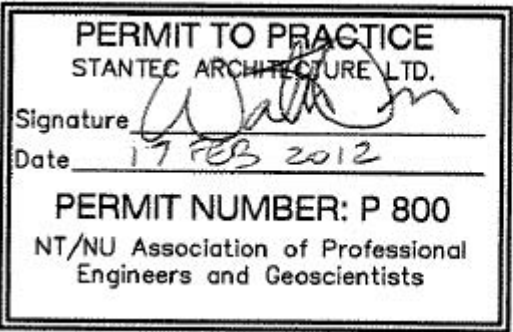
GENERAL NOTES

- PIPE SIZES SHOWN IN NPS (INCHES).
- FLASH AND SEAL WALL PENETRATIONS WATER TIGHT
- ALL FUEL PIPING, FITTINGS AND ALL OTHER APPURTENANCES TO BE NEW.
- FIELD VERIFY ALL MEASUREMENTS.
- REFER TO DRAWING 501 FOR STATIC ELECTRICITY GROUNDING CONNECTION DETAILS. PROVIDE AND WELD ALL GROUND LUG PLATES TO PIPING ETC. AT ALL LOCATIONS AS REQUIRED.

LEGEND



01	17/02/2012	ISSUED FOR CONSTRUCTION	WO
NO.	DATE	REVISION	APPR.



SCALE-ÉCHELLE	AS NOTED
PROJECT-PROJET	PF#: 68352

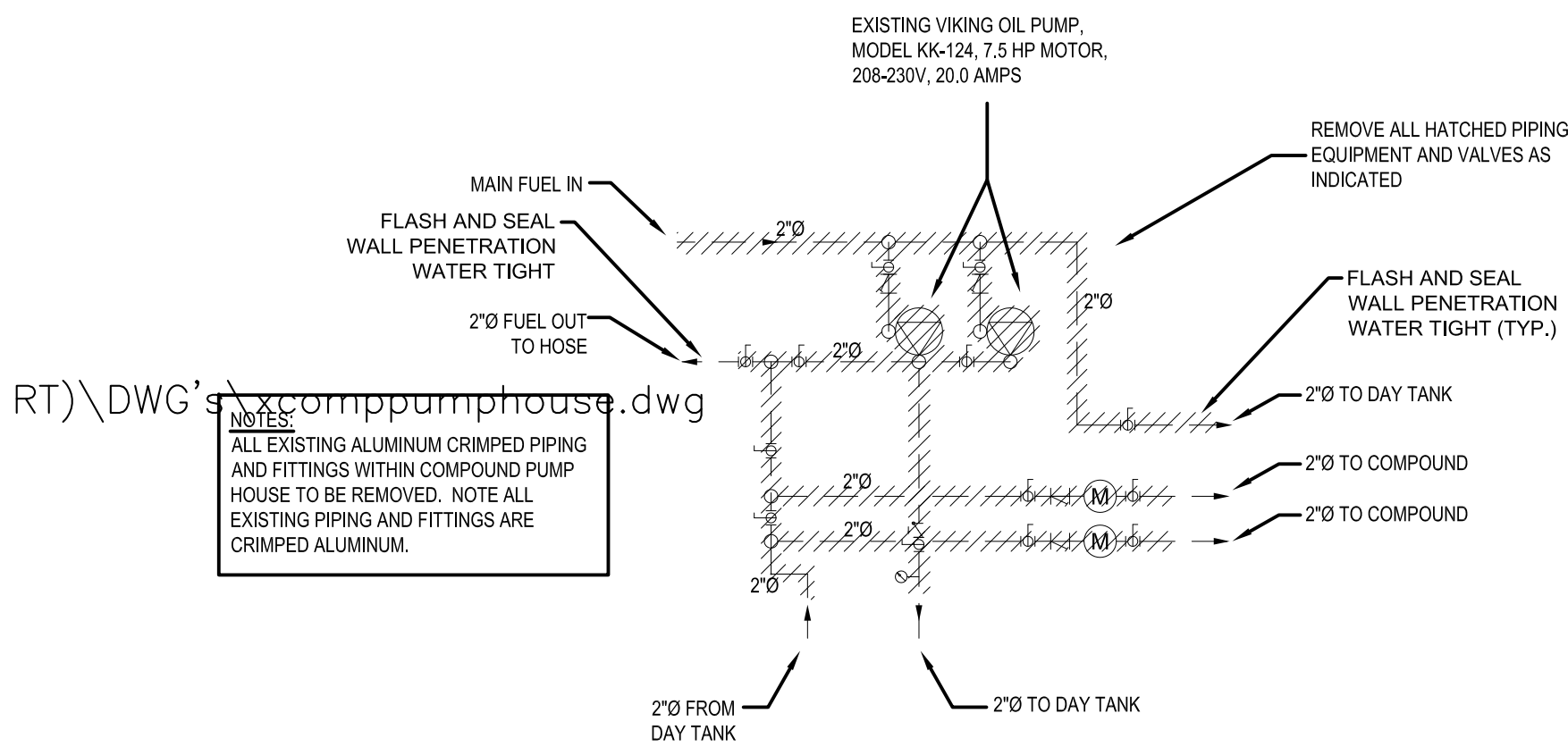
UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

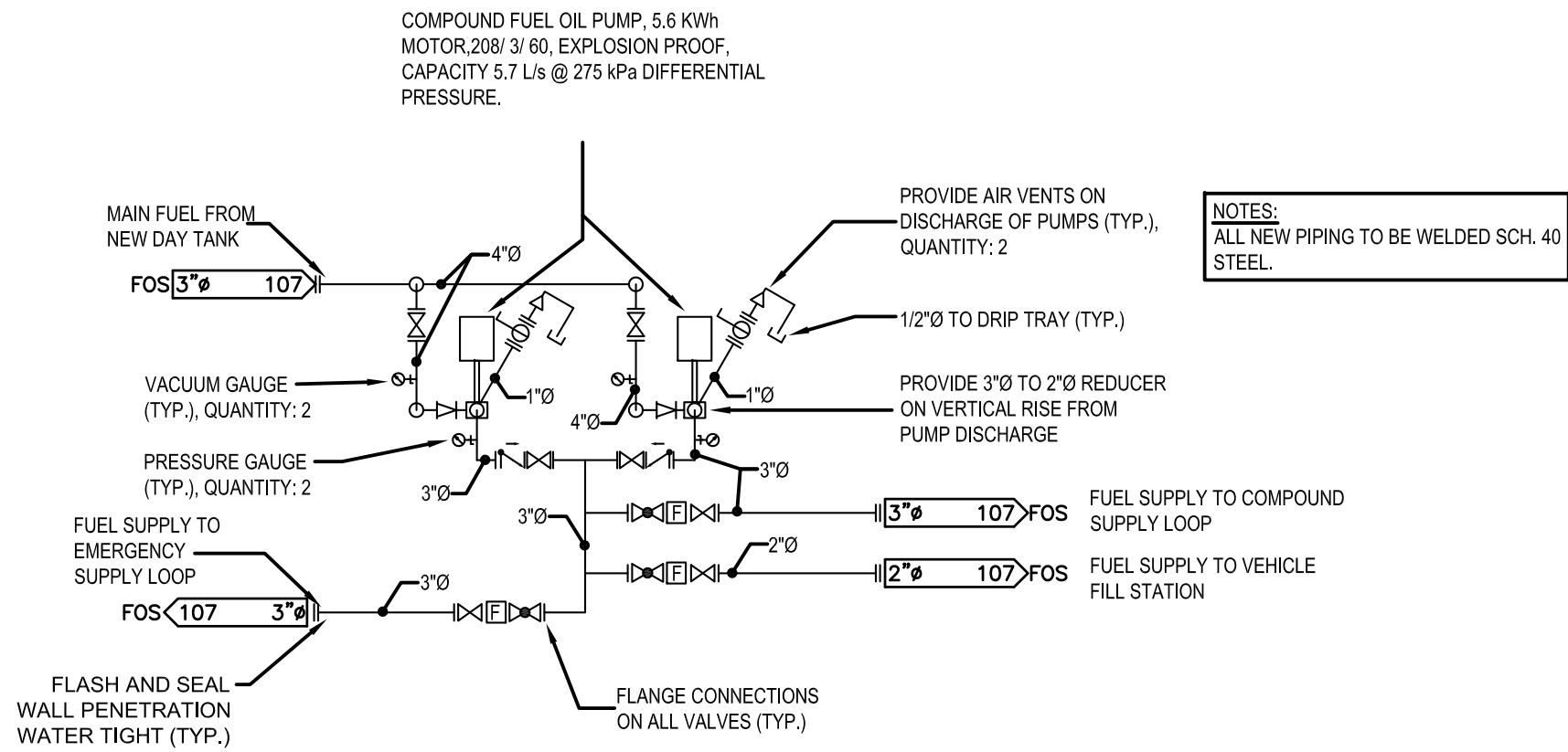
TRADE-MÉTIER	MECHANICAL	DATE	2011-11-15
--------------	------------	------	------------

MECHANICAL RENOVATIONS  
COMPOUND PUMPHOUSE (B015)  
AND KEY PLAN  
LAYOUT

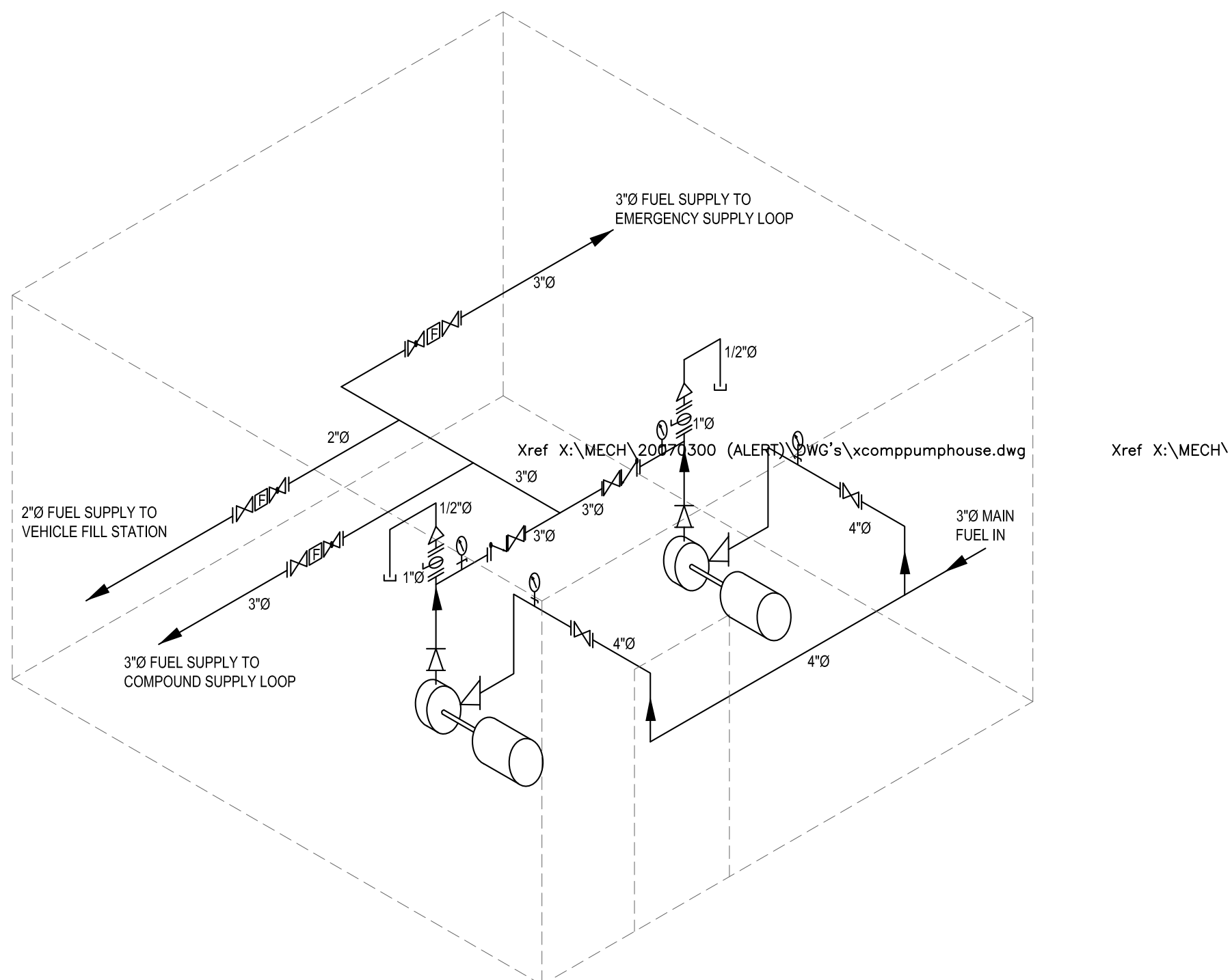
PRODUCTION	CONCURRENCE-ASSENTIMENT	
DESIGNED ÉTUDE	USERS GROUP	
DRAWN DESSINE		P.J.P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ		FIRE CHIEF CAPT.P.MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S.CHINNATAMBY, ENG O	
DWG.NO.-DESSIN NO.	L - A28 -9312/3 - 403	



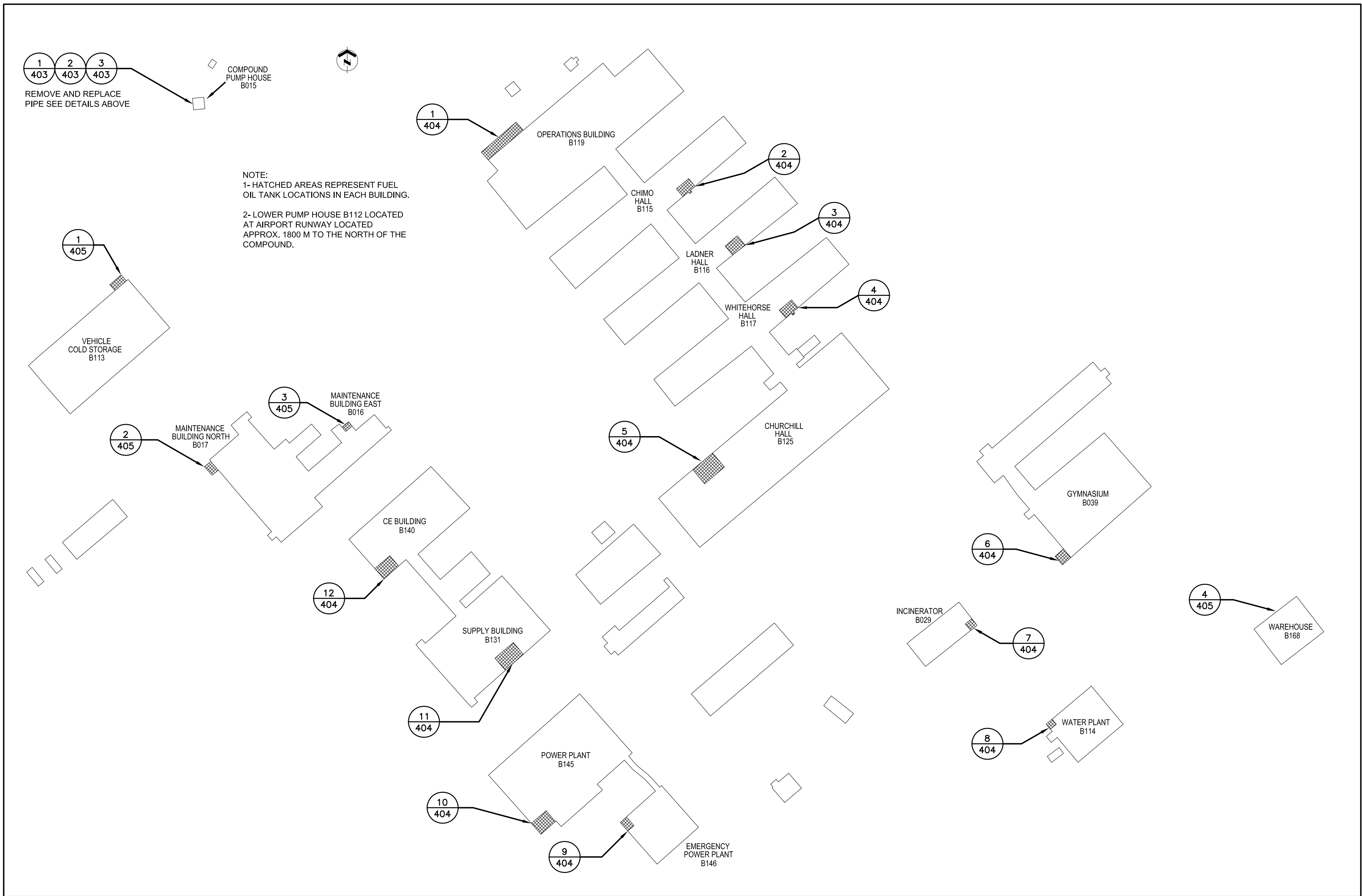
1 PIPING REMOVALS AT COMPOUND PUMPHOUSE B015  
SCALE: 1:50



2 NEW PIPING LAYOUT INSTALLATION AT COMPOUND PUMPHOUSE B015  
SCALE: 1:50



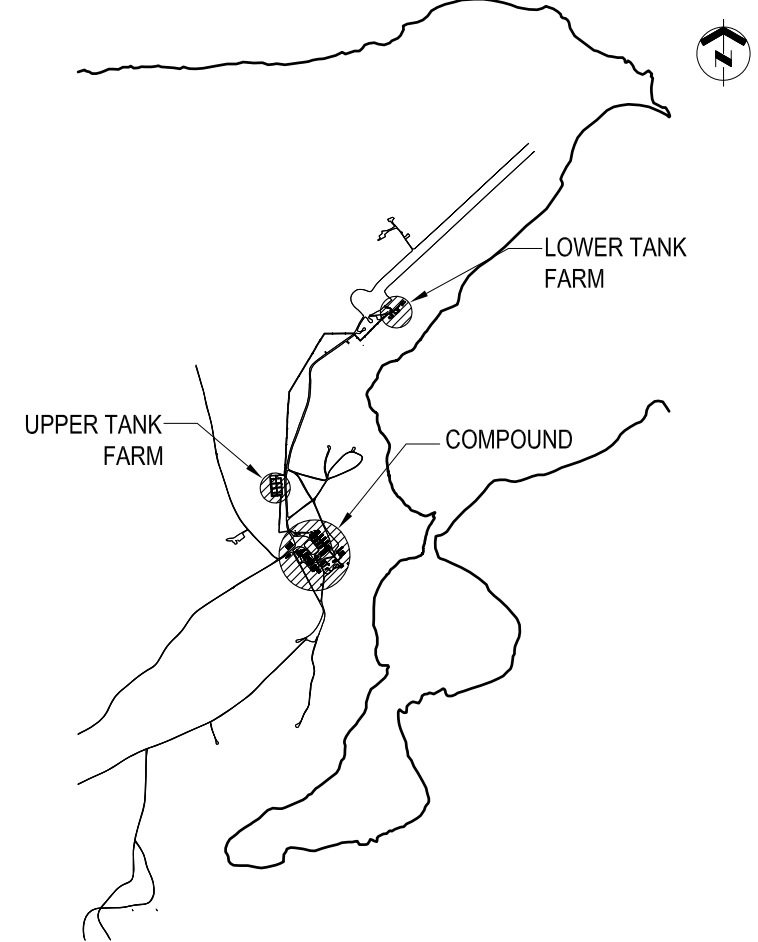
3 NEW PIPING ISOMETRIC AT COMPOUND PUMPHOUSE B015  
SCALE: N.T.S.



COMPOUND KEY PLAN  
SCALE: NTS



WING CONSTRUCTION ENGINEERING SQUADRON  
8 WING, TRENTON, ONTARIO

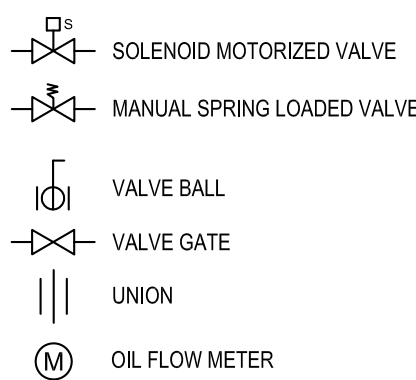


KEY PLAN N.T.S.

GENERAL NOTES

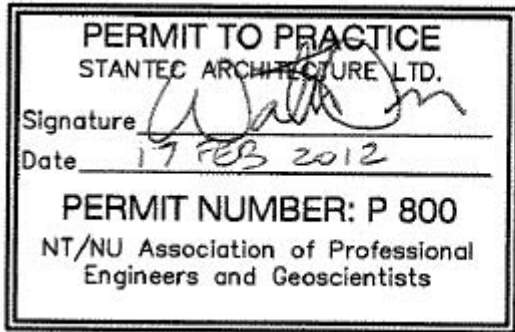
- PIPE SIZES SHOWN IN NPS (INCHES).
- FIELD VERIFY ALL MEASUREMENTS.
- ALL FUEL PIPING, FITTINGS AND ALL OTHER APPURTENANCES TO BE NEW.
- ALL SHUT-OFF VALVES INSTALLED IN FILL PIPES ON THE EXTERIOR OF THE BUILDINGS SHALL BE BALL VALVES *OR* FLANGE CONNECTIONS.
- FLASH AND SEAL WALL PENETRATIONS WATER TIGHT. CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF BUILDING MATERIAL AS REQUIRED FOR INSTALLATION OF HIS WORK. PATCHING SHALL BE DONE IN A SKILLFUL MANNER SUCH THAT IT IS NOT NOTICEABLE. PATCH INTERIOR/EXTERIOR WALL/FLOOR OPENINGS AND REPLACE INSULATION/VAPOUR BARRIER ETC. WITH SAME.
- REFER TO DRAWING 501 FOR STATIC ELECTRICITY GROUNDING CONNECTION DETAILS. PROVIDE AND WELD ALL GROUND LUG PLATES TO PIPING ETC. AT ALL LOCATIONS AS REQUIRED.

LEGEND



DO NOT SCALE DRAWINGS

01	17/02/2012	ISSUED FOR CONSTRUCTION	WO
NO.	DATE	REVISION	APPR.



SCALE-ÉCHELLE	AS NOTED
PROJECT-PROJET	PF#: 68352

UPGRADE MAIN POL COMPOUND

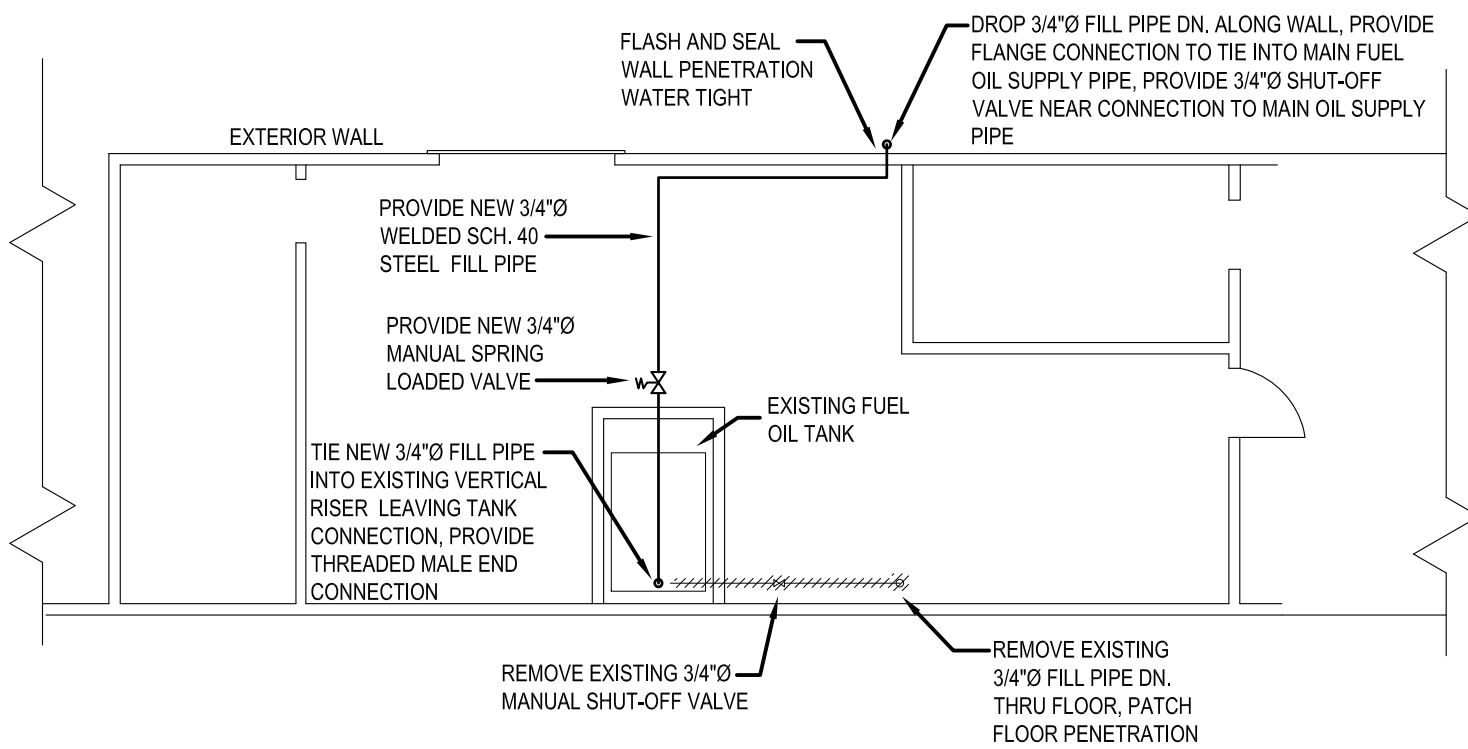
CFS ALERT, NUNAVUT

TRADE-MÉTIER	MECHANICAL	DATE	2011-11-15
--------------	------------	------	------------

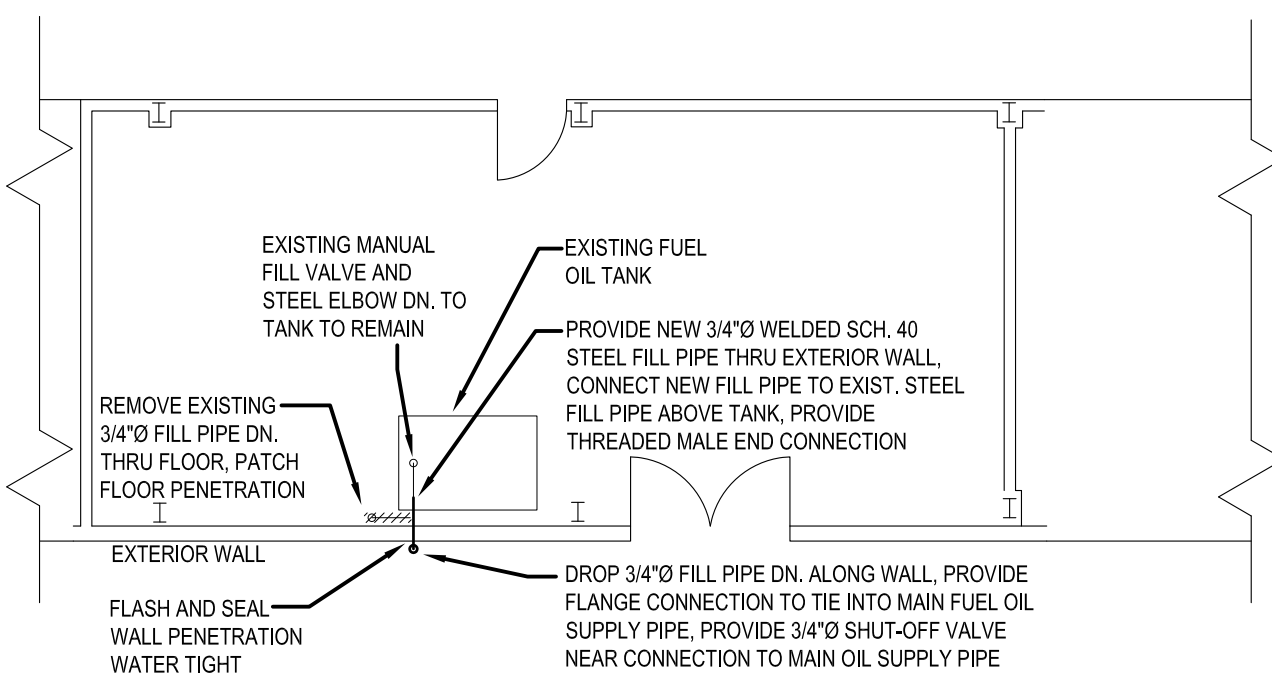
COMPOUND OIL FUEL ROOMS  
MECHANICAL RETROFIT PLANS

PRODUCTION	CONCURRENCE-ASSENTIMENT
DESIGNED ÉTUDE	USERS GROUP
DRAWN DESSINE	P. J. P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ	FIRE CHIEF CAPT. P. MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S. CHINNATAMBY, ENG. O
DWG. NO. - DESSIN NO.	L - A28 -9312/3 - 404

Canada



1 OPERATIONS BUILDING (B119) MECHANICAL ROOM LAYOUT  
404 SCALE: 1:100

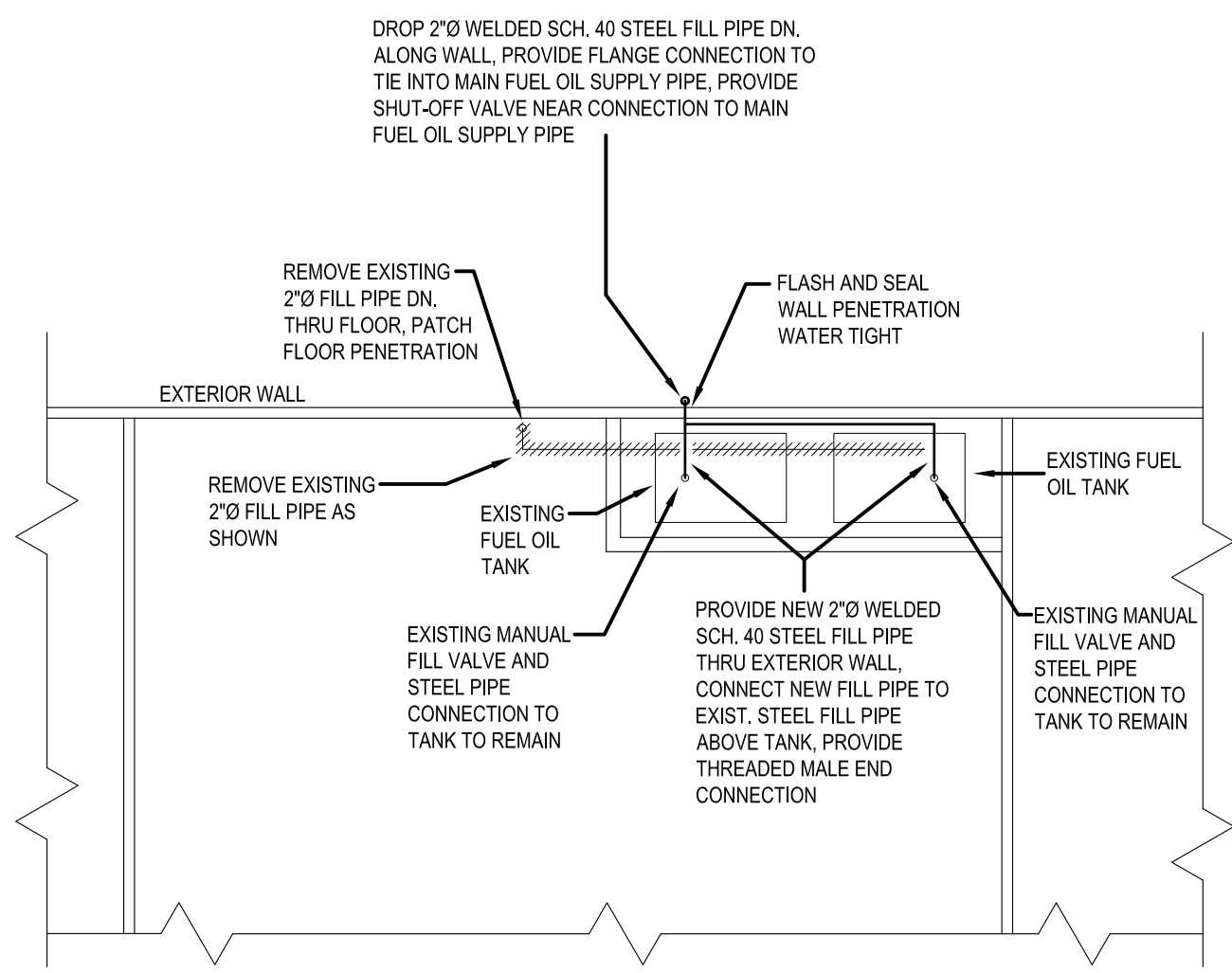


2 CHIMO BUILDING (B115) MECHANICAL ROOM LAYOUT  
404 SCALE: 1:100

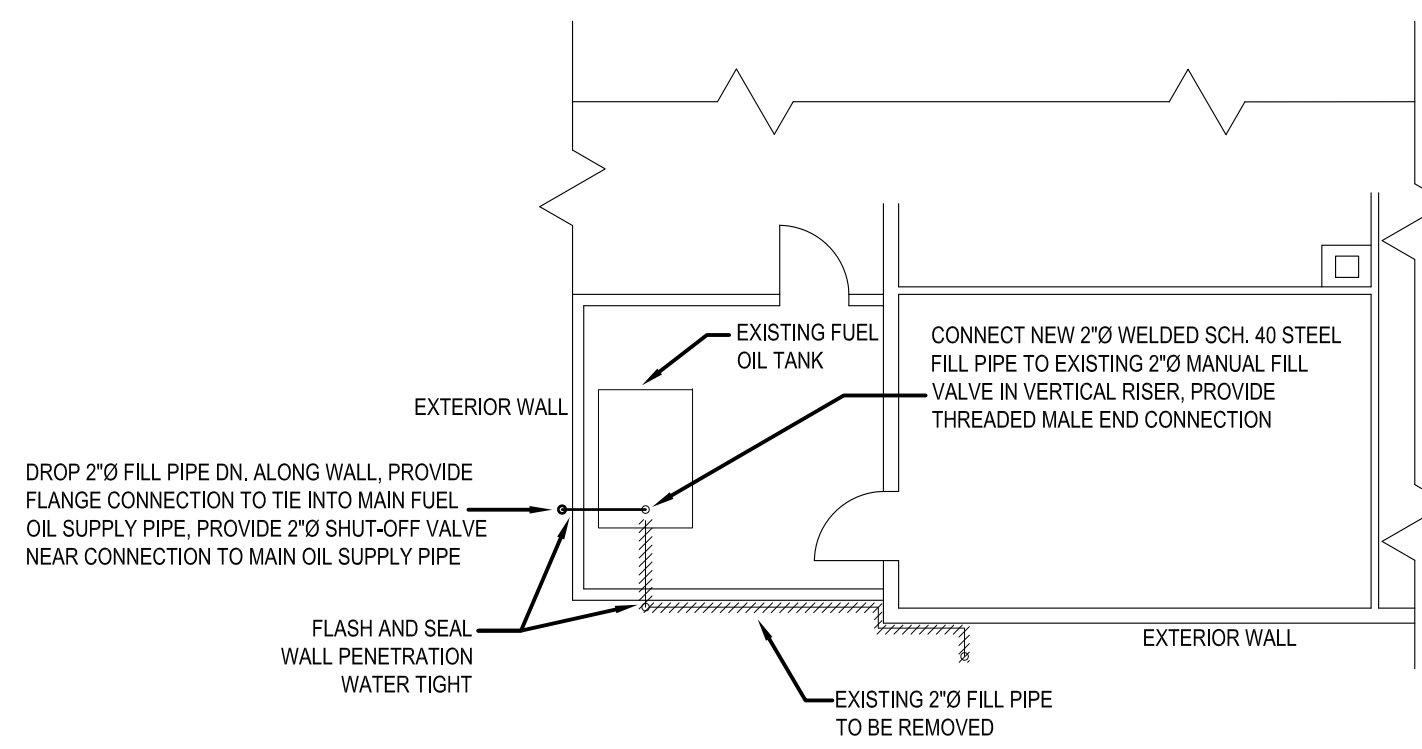
TYPICAL FOR FOLLOWING BUILDINGS:

3 LADNER HALL (116)  
404

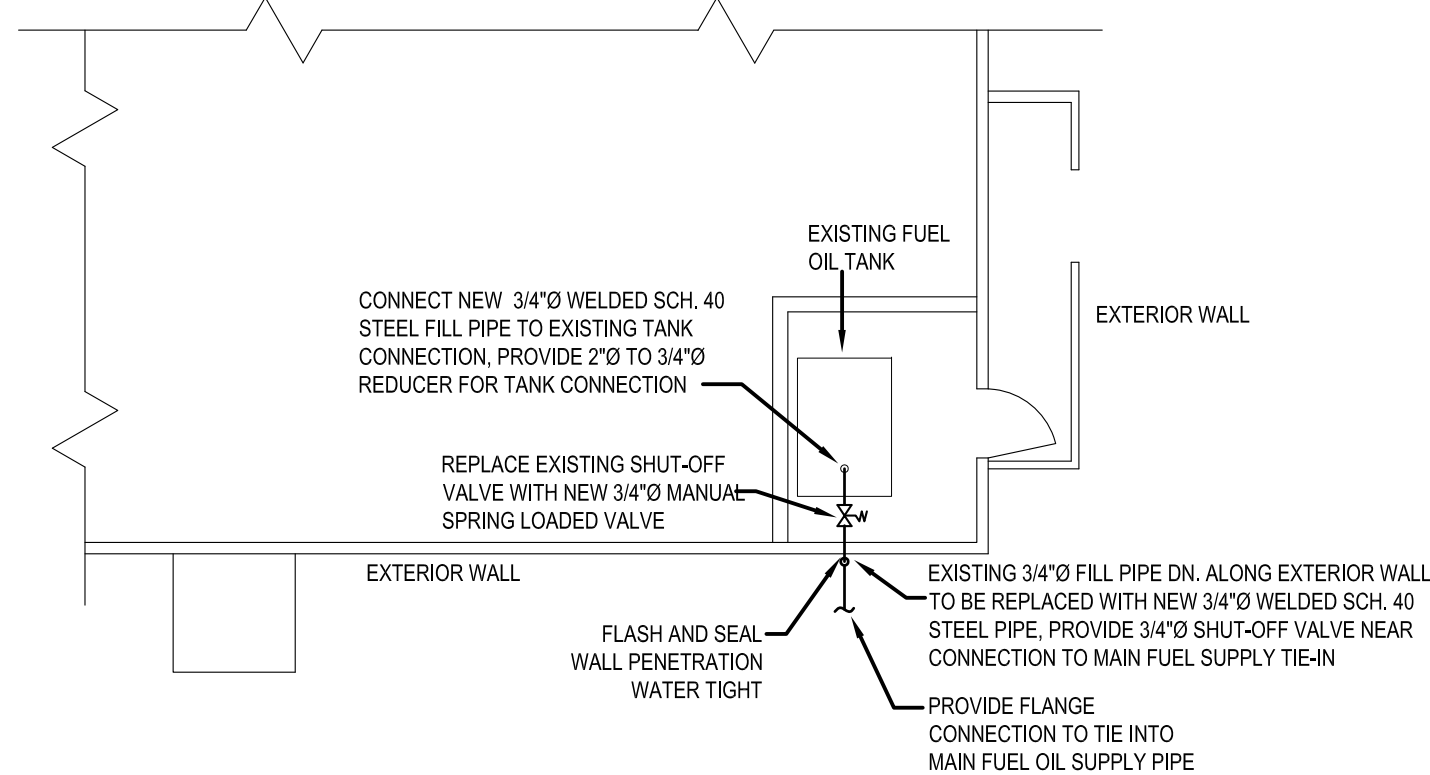
4 WHITEHORSE HALL (117)  
404



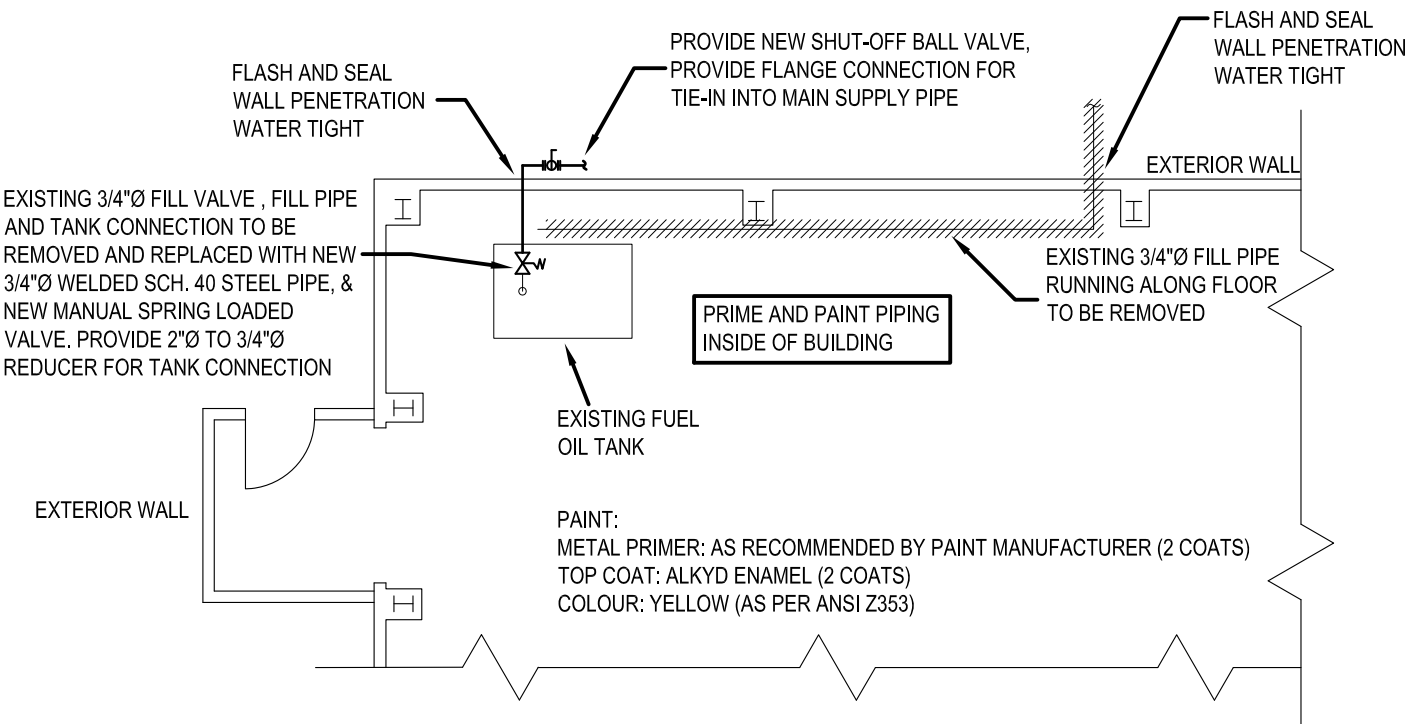
5 CHURCHILL (B125) MECHANICAL ROOM LAYOUT  
404 SCALE: 1:100



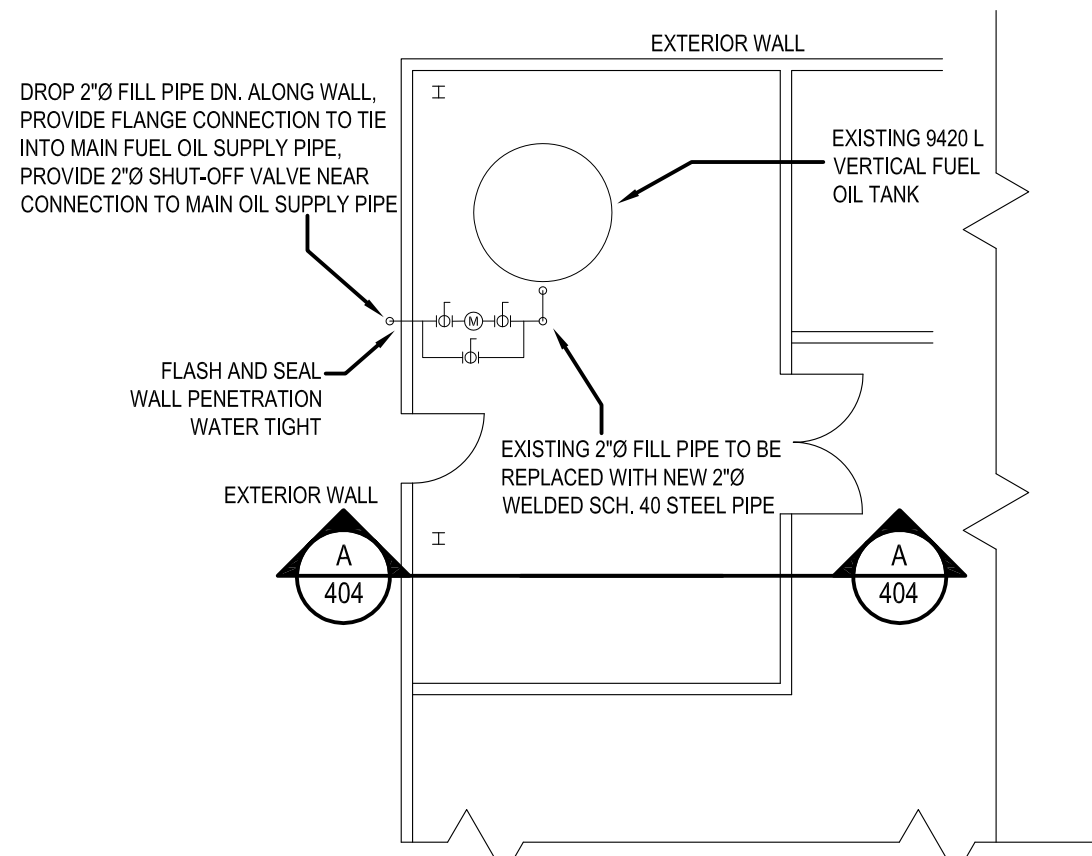
6 GYMNASIUM (B039) MECHANICAL ROOM  
404 SCALE: 1:100



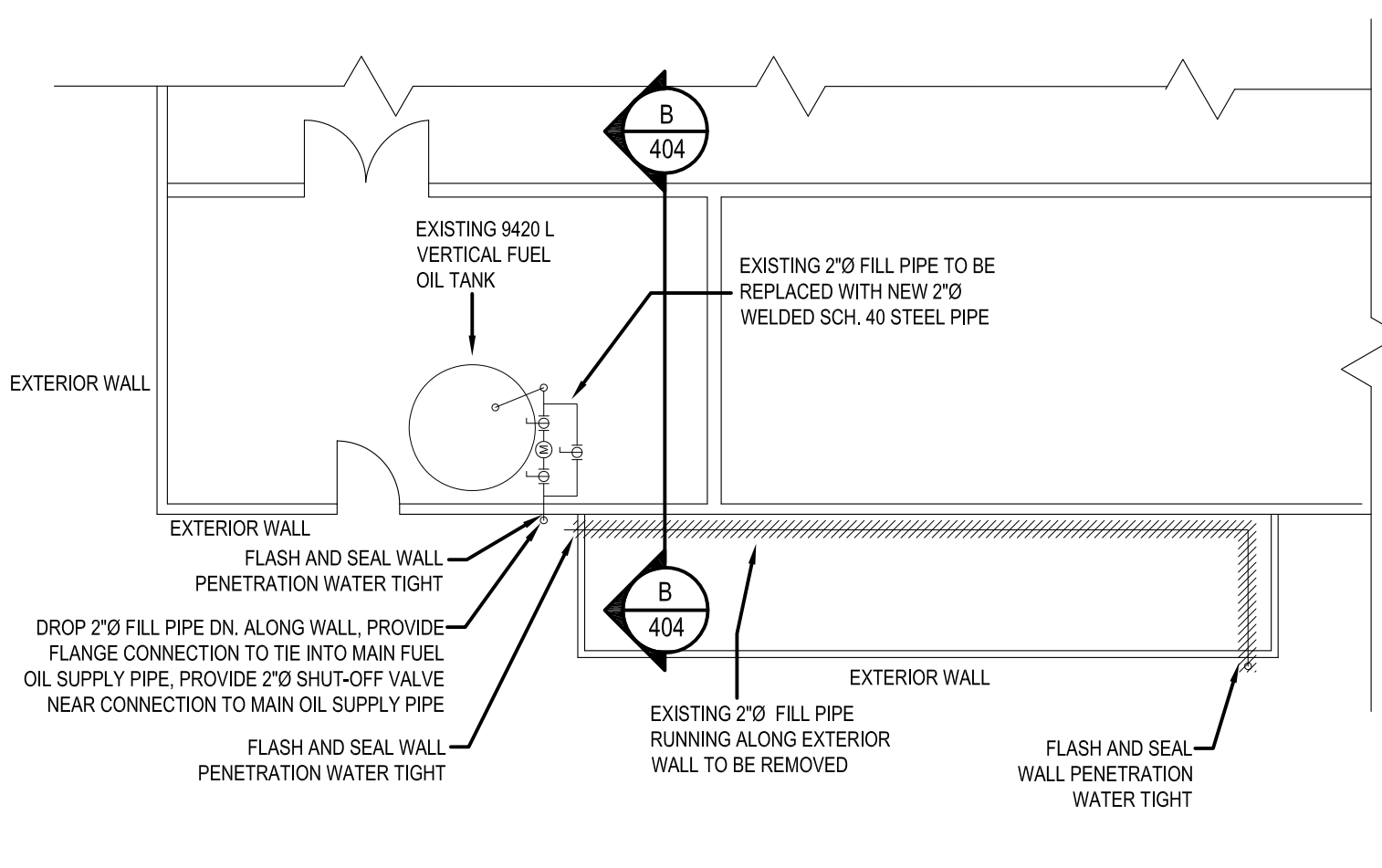
7 INCINERATOR (B029) MECHANICAL ROOM LAYOUT  
404 SCALE: 1:100



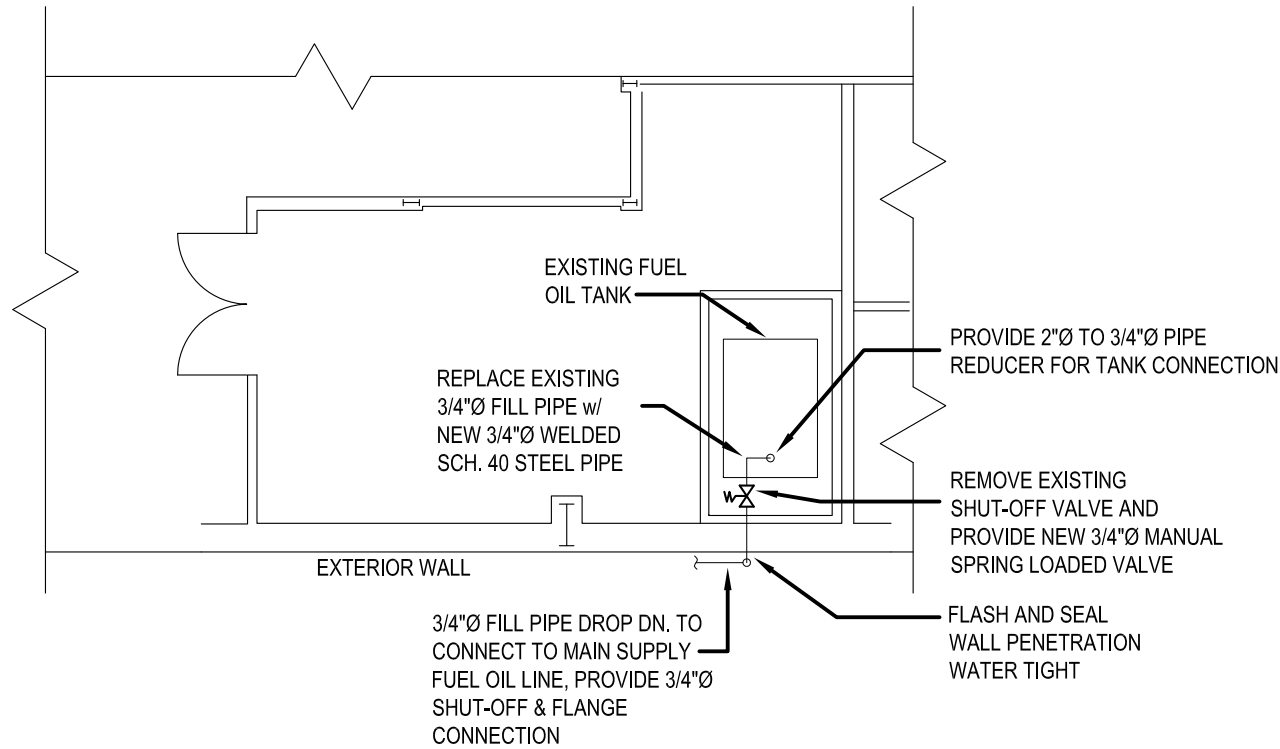
8 WATER PLANT (B114) PLAN  
404 SCALE: 1:100



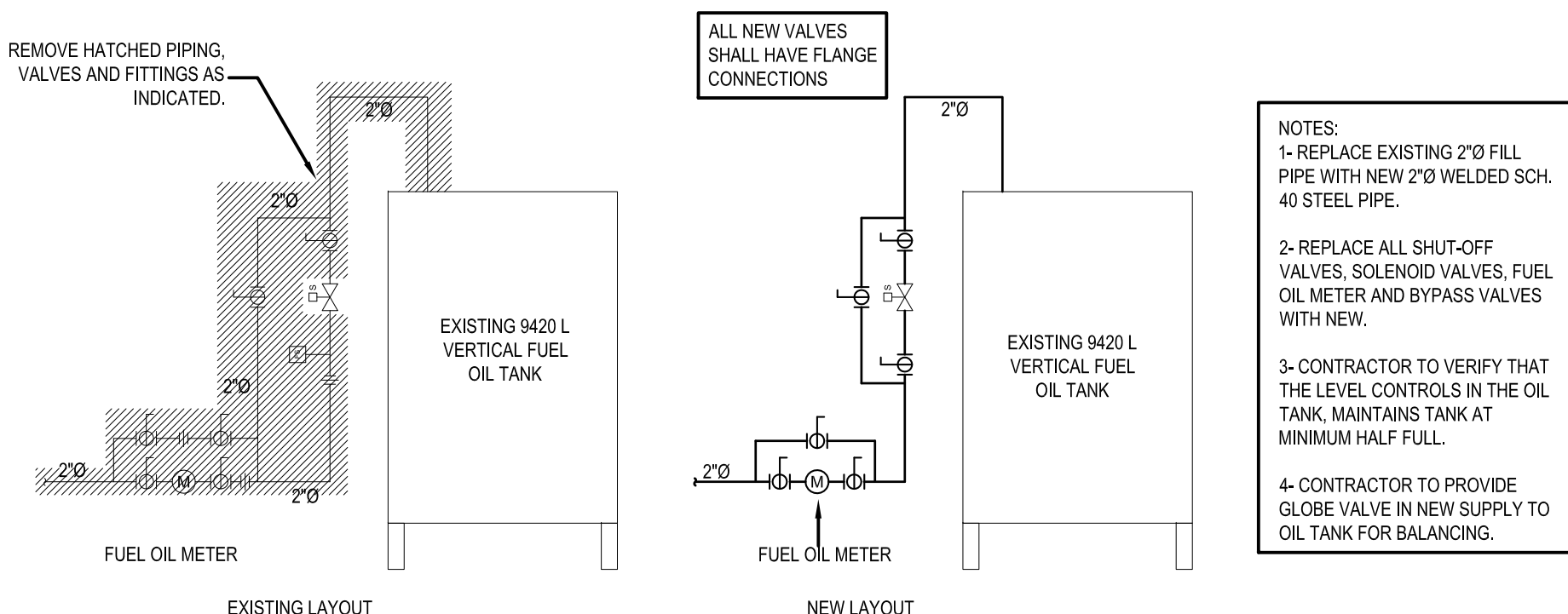
9 EMERGENCY POWER PLANT (B146) FUEL OIL ROOM  
404 SCALE: 1:100



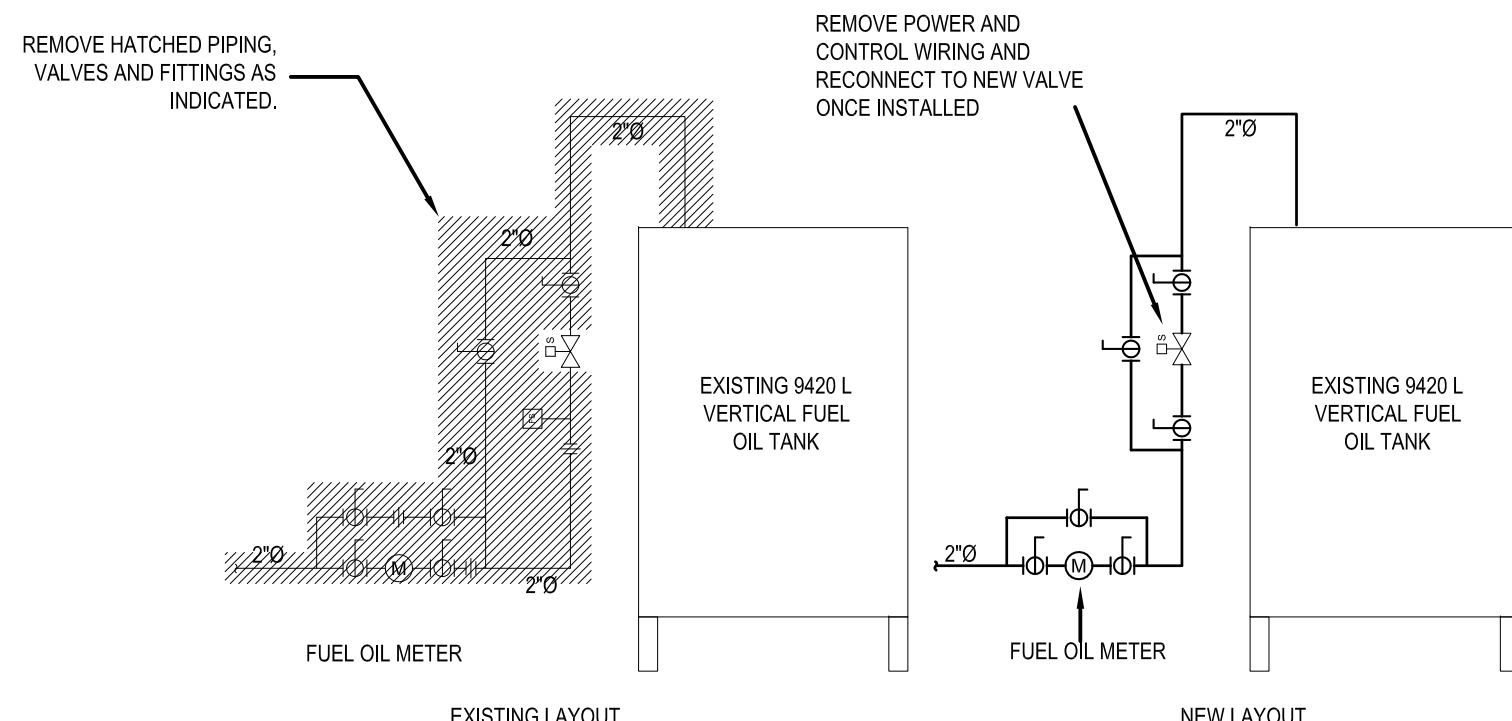
10 POWER PLANT (B145) FUEL OIL ROOM  
404 SCALE: 1:100



11 SUPPLY BUILDING (B131) MECH. ROOM  
404 SCALE: 1:100

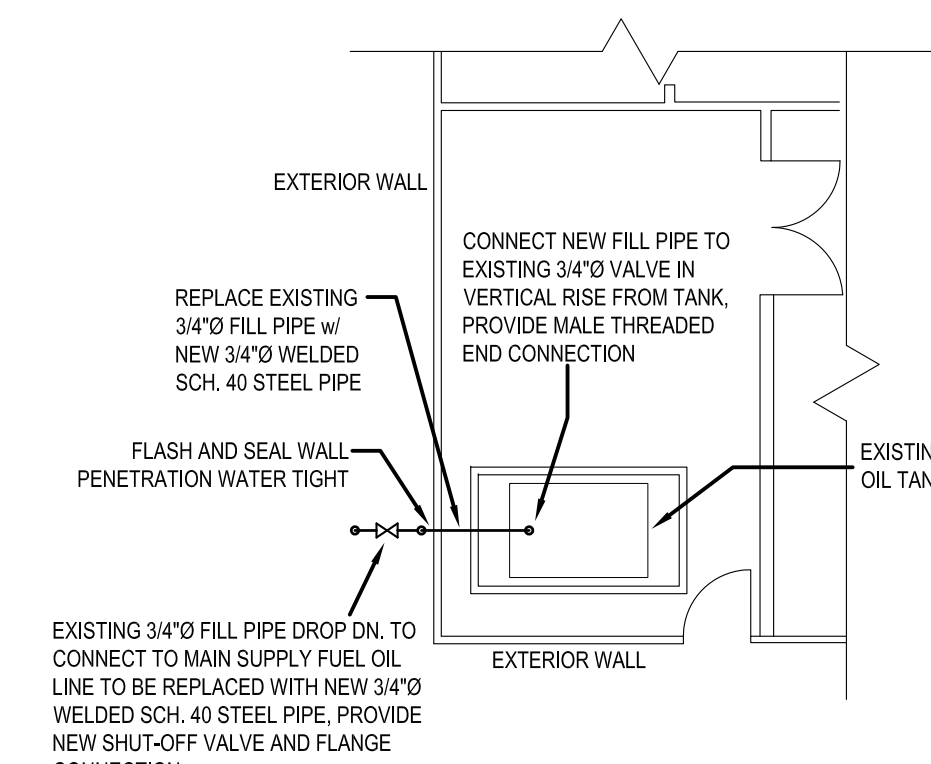


A-A EMERGENCY POWER PLANT TANK (B146) SCHEMATIC  
404 SCALE: 1:50



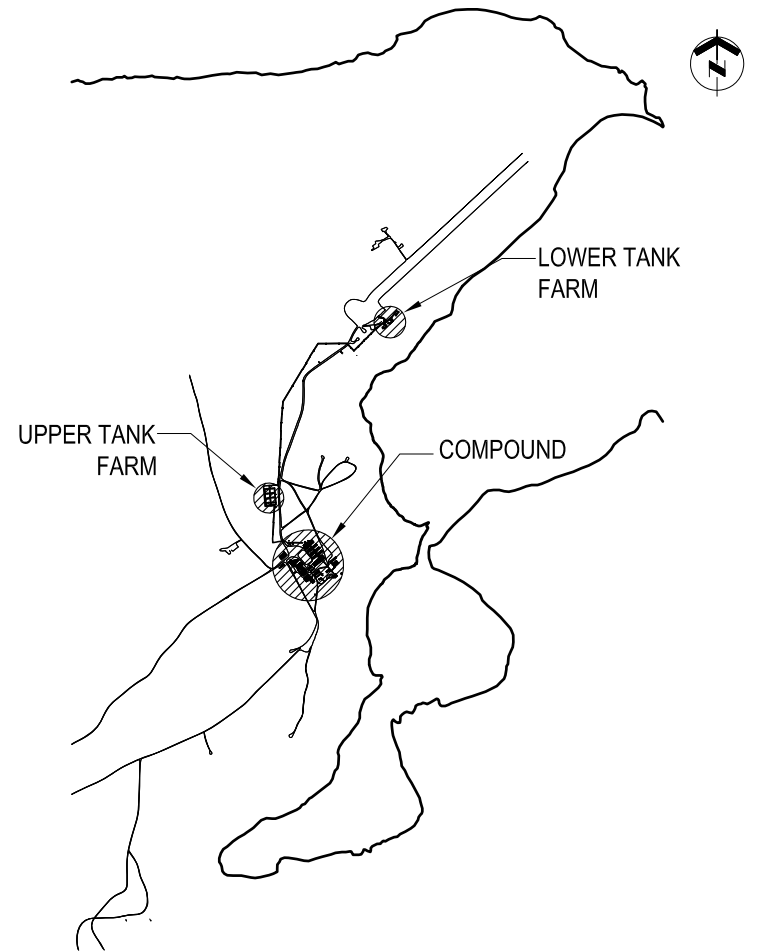
B-B POWER PLANT TANK (B145) SCHEMATIC  
404 SCALE: 1:50

NOTES:  
1-REPLACE EXISTING 2" FILL PIPE WITH NEW 2" WELDED SCH. 40 STEEL PIPE.  
2-REPLACE ALL SHUT-OFF VALVES, SOLENOID VALVES, FUEL OIL METER AND BYPASS VALVES WITH NEW.  
3-CONTRACTOR TO VERIFY THAT THE LEVEL CONTROLS IN THE OIL TANK, MAINTAINS TANK AT MINIMUM HALF FULL.  
4-CONTRACTOR TO PROVIDE GLOBE VALVE IN NEW SUPPLY TO OIL TANK.



12 CE BUILDING (B140) MECH. ROOM  
404 SCALE: 1:100





KEY PLAN N.T.S.

GENERAL NOTES

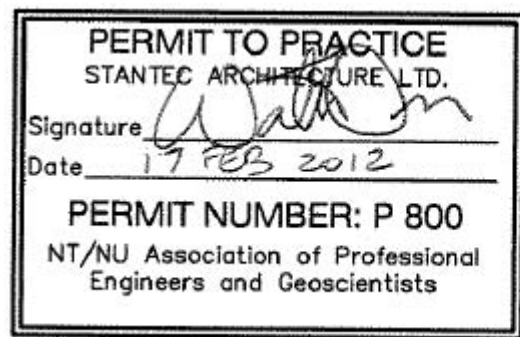
- PIPE SIZES SHOWN IN NPS (INCHES).
- DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
- FIELD VERIFY ALL MEASUREMENTS.
- ALL SHUT-OFF VALVES INSTALLED IN FILL PIPES ON THE EXTERIOR OF THE BUILDINGS SHALL BE BALL VALVES c/w FLANGE CONNECTIONS.
- FLASH AND SEAL WALL PENETRATIONS WATER TIGHT.
- CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF BUILDING MATERIAL AS REQUIRED FOR INSTALLATION OF HIS WORK. PATCHING SHALL BE DONE IN A SKILLFUL MANNER SUCH THAT IT IS NOT NOTICEABLE. PATCH INTERIOR/EXTERIOR WALL/FLOOR OPENINGS AND REPLACE INSULATION/VAPOUR BARRIER ETC. WITH SAME.
- REFER TO DRAWING 501 FOR STATIC ELECTRICITY GROUNDING CONNECTION DETAILS. PROVIDE AND WELD ALL GROUND LUG PLATES TO PIPING ETC. AT ALL LOCATIONS AS REQUIRED.

LEGEND

- SOLENOID MOTORIZED VALVE
- MANUAL SPRING LOADED VALVE
- UNION
- VALVE GATE

DO NOT SCALE DRAWINGS

01	17/02/2012	ISSUED FOR CONSTRUCTION	WO
NO.	DATE	REVISION	APPR.



SCALE-ÉCHELLE AS NOTED

PROJECT-PROJET  
PF#: 68352

UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

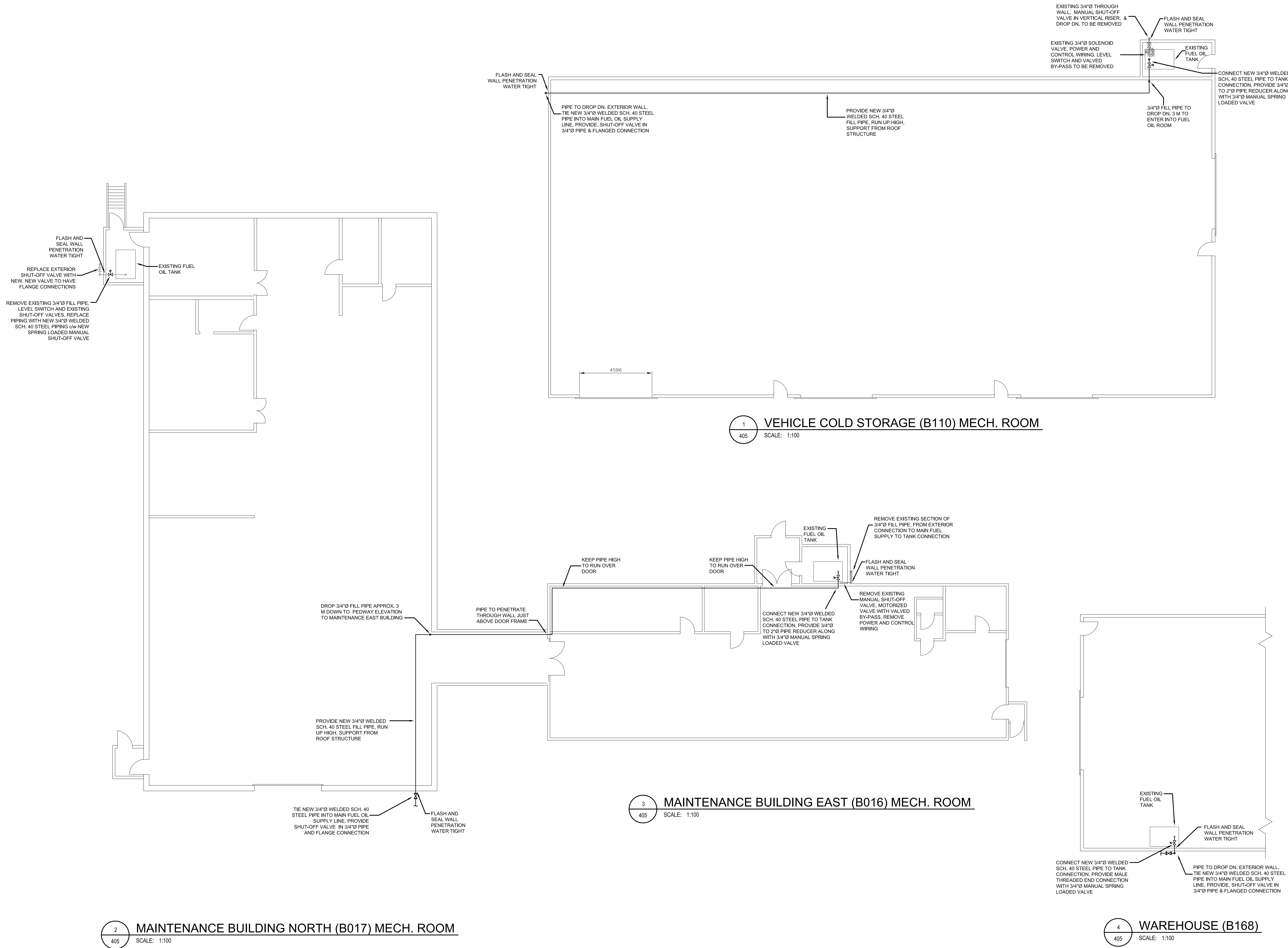
TRADE-MÉTIER MECHANICAL	DATE 2011-11-15
----------------------------	--------------------

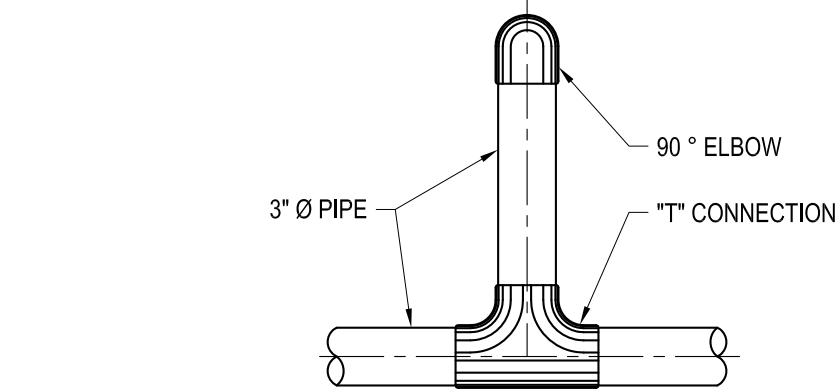
FUEL OIL TANK  
MECHANICAL RENOVATIONS  
MAINTENANCE (B016 & B017) &  
VEHICLE COLD STORAGE BUILDING (B110) &  
WAREHOUSE (B168)

PRODUCTION	CONCURRENCE-ASSENTIMENT	
DESIGNED ÉTUDE	USERS GROUP	
DRAWN DESSINE		P.J.P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ		FIRE CHIEF CAPT.P.MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S.CHINNATAMBY, ENG O	

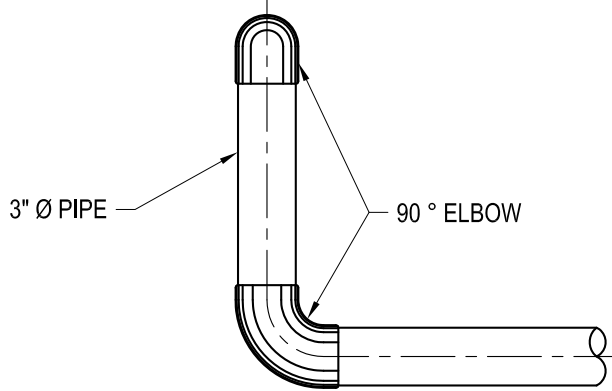
DWG.NO.-DESSIN NO.  
L - A28 -9312/3 - 405

Canada

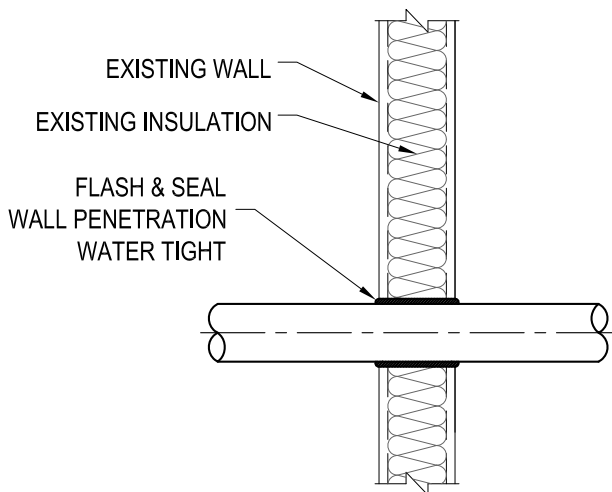




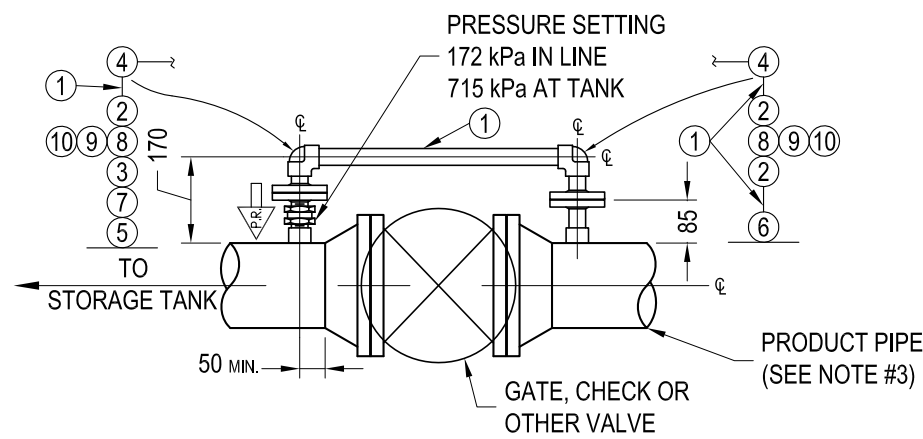
1  
406 BUILDING FUEL "T" CONNECTION  
SCALE: N.T.S



2  
406 BUILDING FUEL END OF LINE CONNECTION  
SCALE: N.T.S



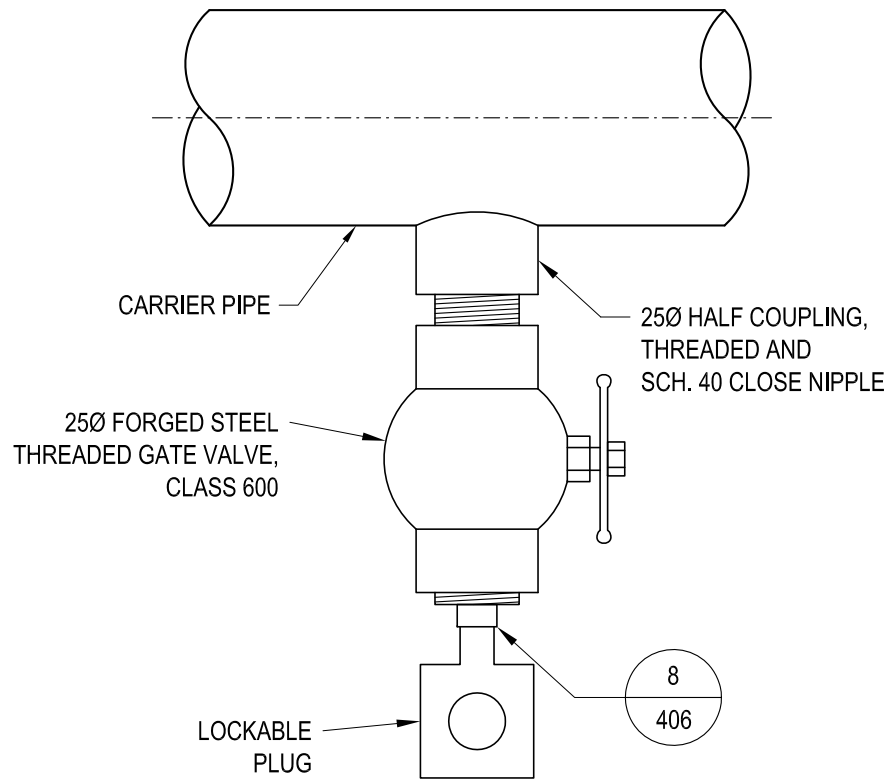
3  
406 BUILDING FUEL WALL PENETRATION  
SCALE: N.T.S



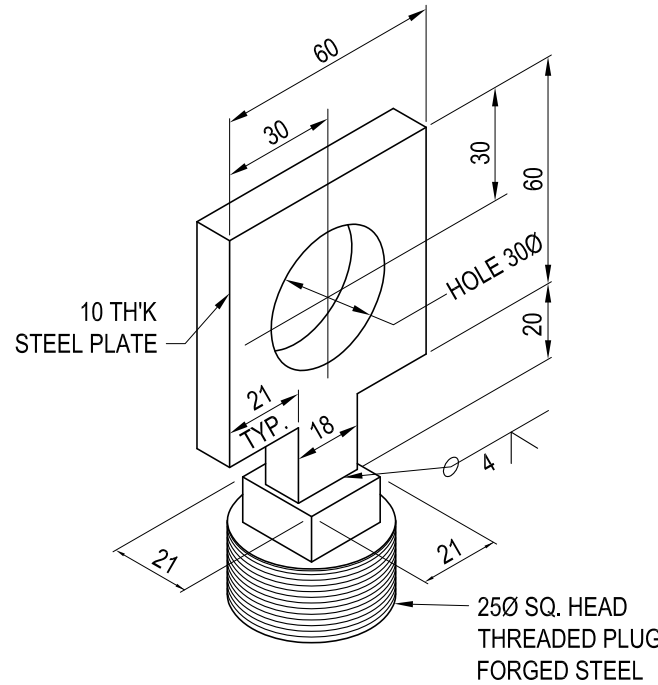
6  
406 PRESSURE RELIEF DETAILS  
SCALE: N.T.S.  
(BASIC ARRANGEMENT, RIGHT HAND SHOWN, LEFT HAND ON OPPOSITE SIDE)

SCHEDULE OF MATERIAL		
ITEM	SIZE	DESCRIPTION
1	1"Ø	PIPE
2		SLIP-ON FLANGE
3		THREADED FLANGE
4		ELBOW 90°, SOCKET WELD
5		HALF COUPLING, THREADED
6		HALF COUPLING, SOCKET WELD
7		THERMAL PRESSURE RELIEF VALVE (SEE NOTES #1, 2, & 3)
8		GASKET
9	1/2"Ø x 2.5" L.G.	STUD BOLT
10	1/2"Ø	NUT (2 EACH BOLT)

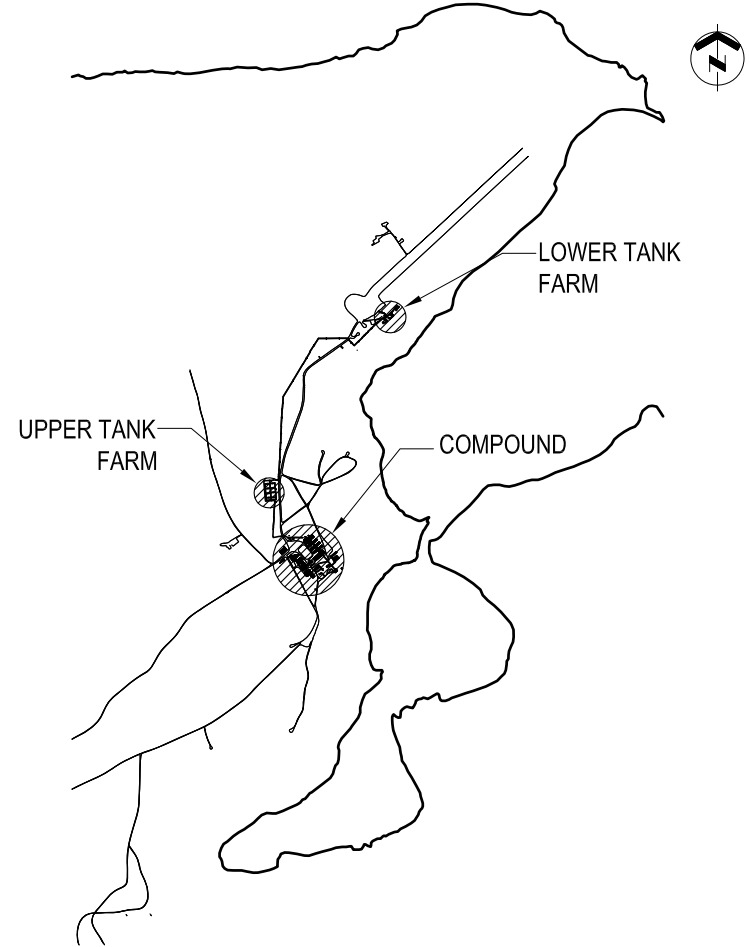
- NOTES:
1. INLINE TYPE PRESSURE RELIEF VALVE WITH ENGRAVED ARROW ON ONE SIDE OF VALVE (TO INDICATE DIRECTION IN WHICH PRESSURE IS TO BE RELIEVED).
  2. ENSURE THAT NAMEPLATE IS NOT DAMAGED OR PAINTED OVER.
  3. BASIC ARRANGEMENT SHOWN IS APPLICABLE TO PRODUCT PIPE 2" THRU 6" DIAMETER.
  4. HOLES AT FLANGES TO BE STRADDLED ABOUT HORIZONTAL & VERTICAL AXIS OF PIPE.
  5. FOR MORE DESCRIPTION OF ITEMS REFER TO SPECIFICATIONS.
  6. SEE SPECIFICATIONS, FOR ALTERNATIVE INSTALLATION ON VALVE BODY.



7  
406 WATER DRAIN DETAIL  
SCALE: 1:4



8  
406 LOCKABLE PLUG DETAIL  
SCALE: 1:2



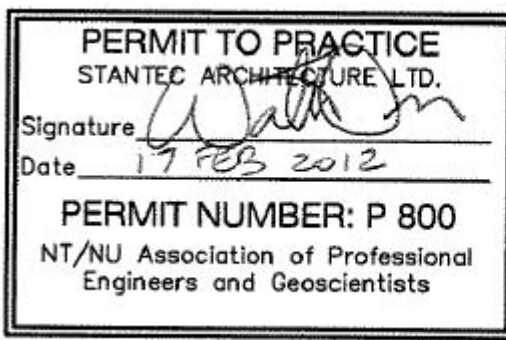
KEY PLAN N. T. S.

GENERAL NOTES

LEGEND

DO NOT SCALE DRAWINGS

01	17/02/2012	ISSUED FOR CONSTRUCTION	WO
NO.	DATE	REVISION	APPR.



SCALE-ÉCHELLE AS NOTED

PROJECT-PROJET PF#: 68352

UPGRADE MAIN POL COMPOUND

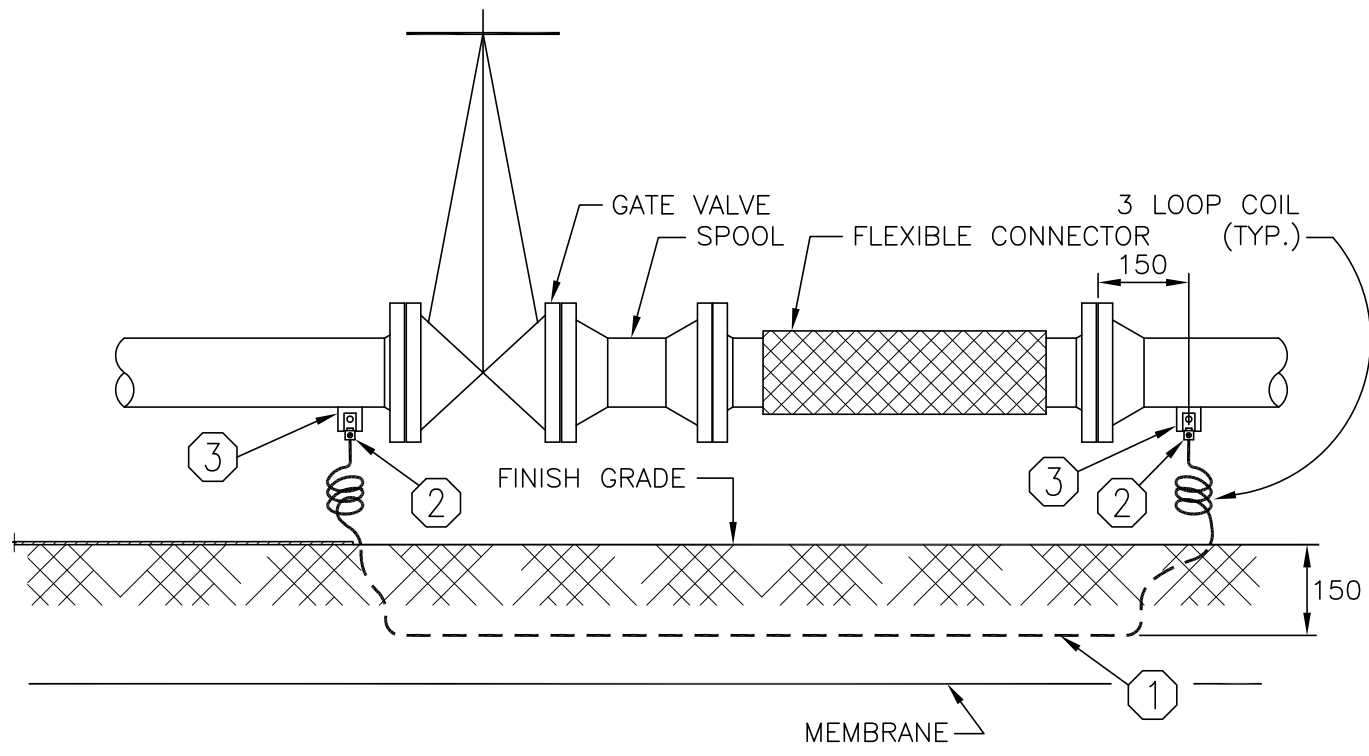
CFS ALERT, NUNAVUT

TRADE-MÉTIER CIVIL/STRUCTURAL DATE 2011-11-15

MECHANICAL DETAILS

PRODUCTION		CONCURRENCE-ASSENTIMENT	
DESIGNED ÉTUDE		USERS GROUP	
DRAWN DESSINE		P.J.P. O'LEARY PROJ. MGR.	
CHECKED VÉRIFIÉ		FIRE CHIEF CAPT.P.MUSCAT-DRAGO	
COORDINATION		APPROVED - APPROUVÉ S.CHINNATAMBY, ENG O	

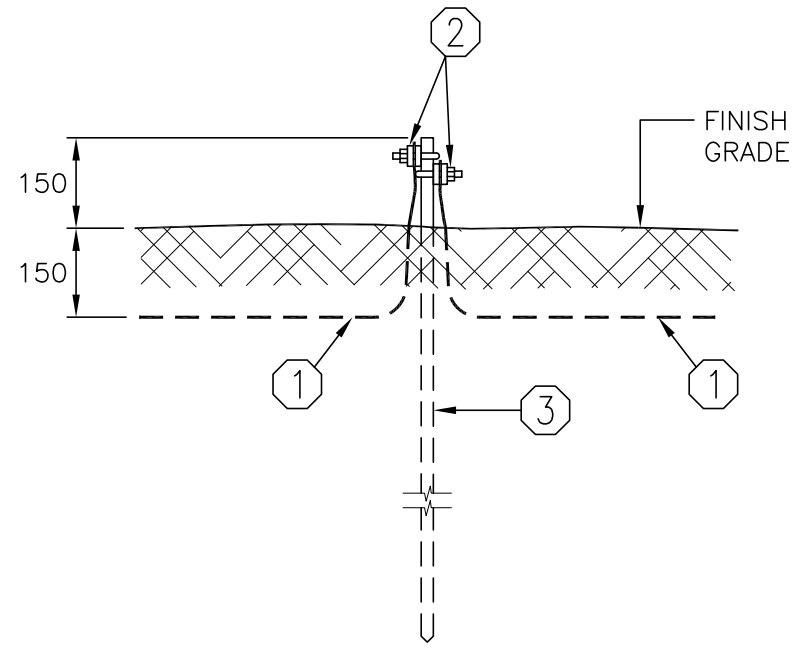
DWG.NO.-DESSIN NO. L - A28 -9312/3 - 406



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE
②	COPPER MECHANICAL CONNECTOR ATTACHED WITH BRASS BOLT & NUTS
③	GROUND LUG PLATE 40 x 40 x 6 TH'K

ELECTRICAL DETAIL 1

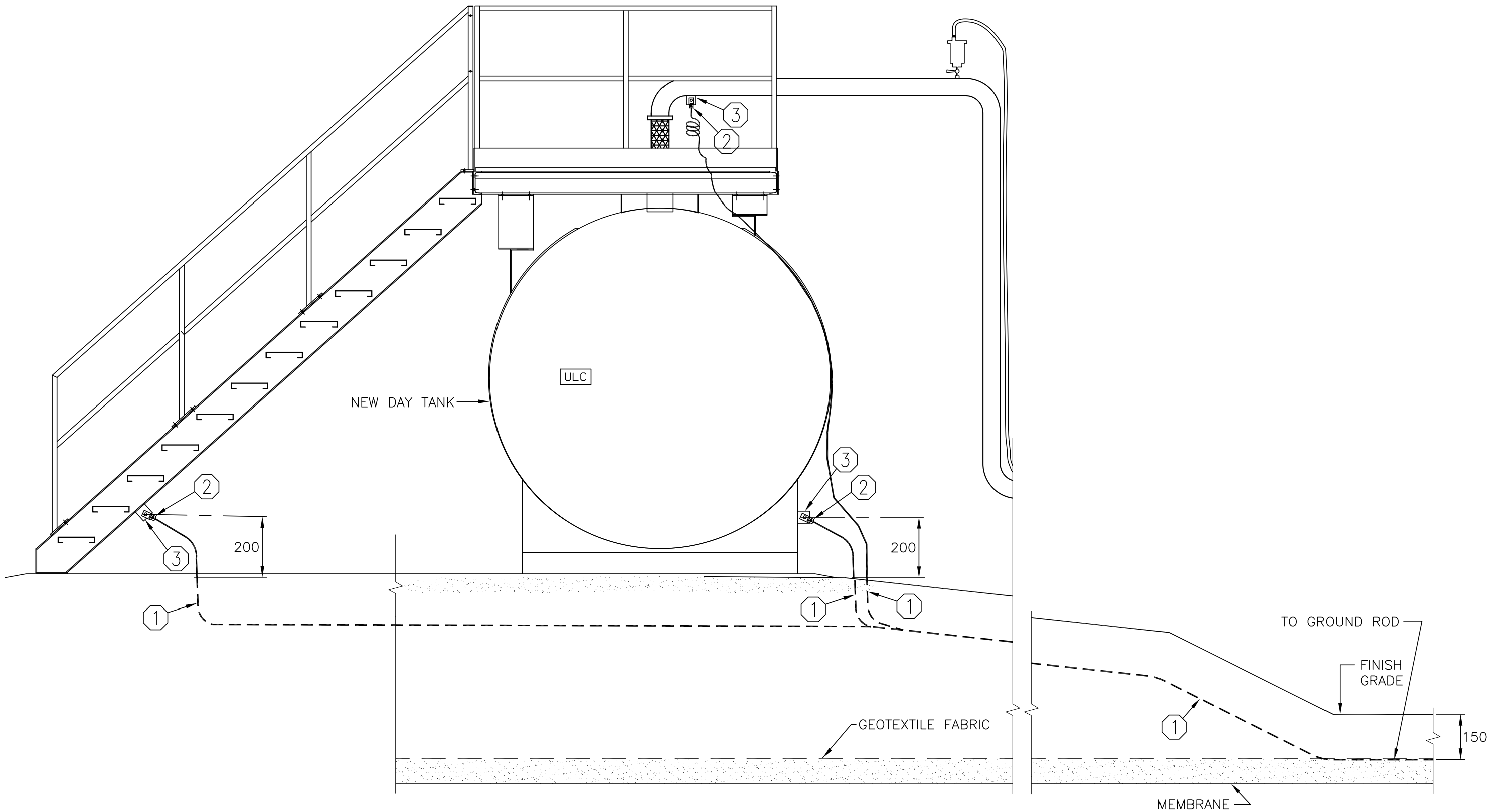
STATIC ELECTRICITY GROUNDING  
CONNECTIONS ACROSS VALVES  
SPOOL PIECES & FLEXIBLE CONNECTORS  
N.T.S.



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE
②	BRONZE GROUND CONNECTOR
③	GROUND ROD 19# x 3.050 m, COPPER-CLAD STEEL

ELECTRICAL DETAIL 2

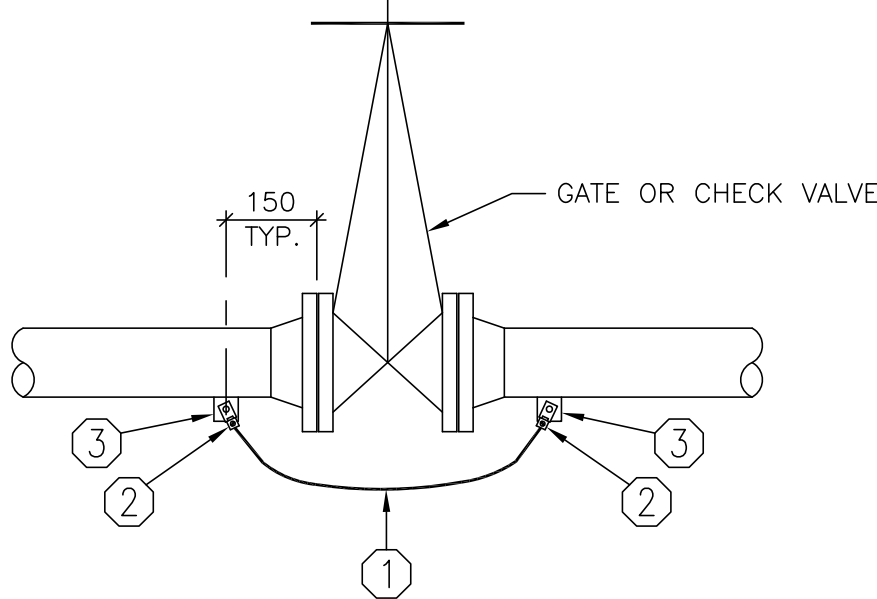
STATIC ELECTRICITY GROUNDING  
CONNECTIONS AT GROUND ROD  
N.T.S.



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE
②	COPPER MECHANICAL CONNECTOR ATTACHED WITH BRASS BOLT & NUTS
③	GROUND LUG PLATE 40 x 40 x 6 TH'K

ELECTRICAL DETAIL 3

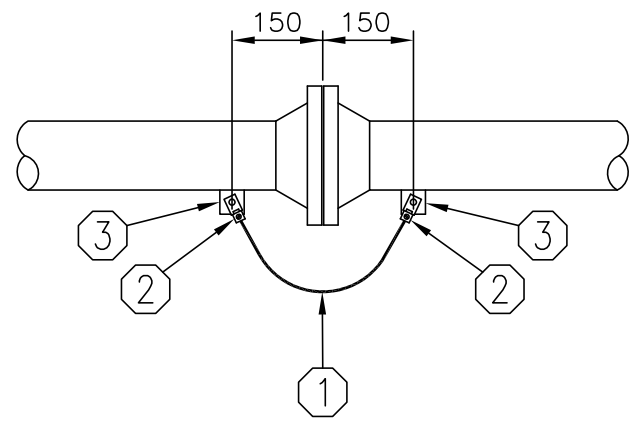
STATIC ELECTRICITY GROUNDING  
CONNECTION AT NEW DAY TANK  
N.T.S.



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE
②	COPPER MECHANICAL CONNECTOR ATTACHED WITH BRASS BOLT & NUTS
③	GROUND LUG PLATE 40 x 40 x 6 TH'K

ELECTRICAL DETAIL 4

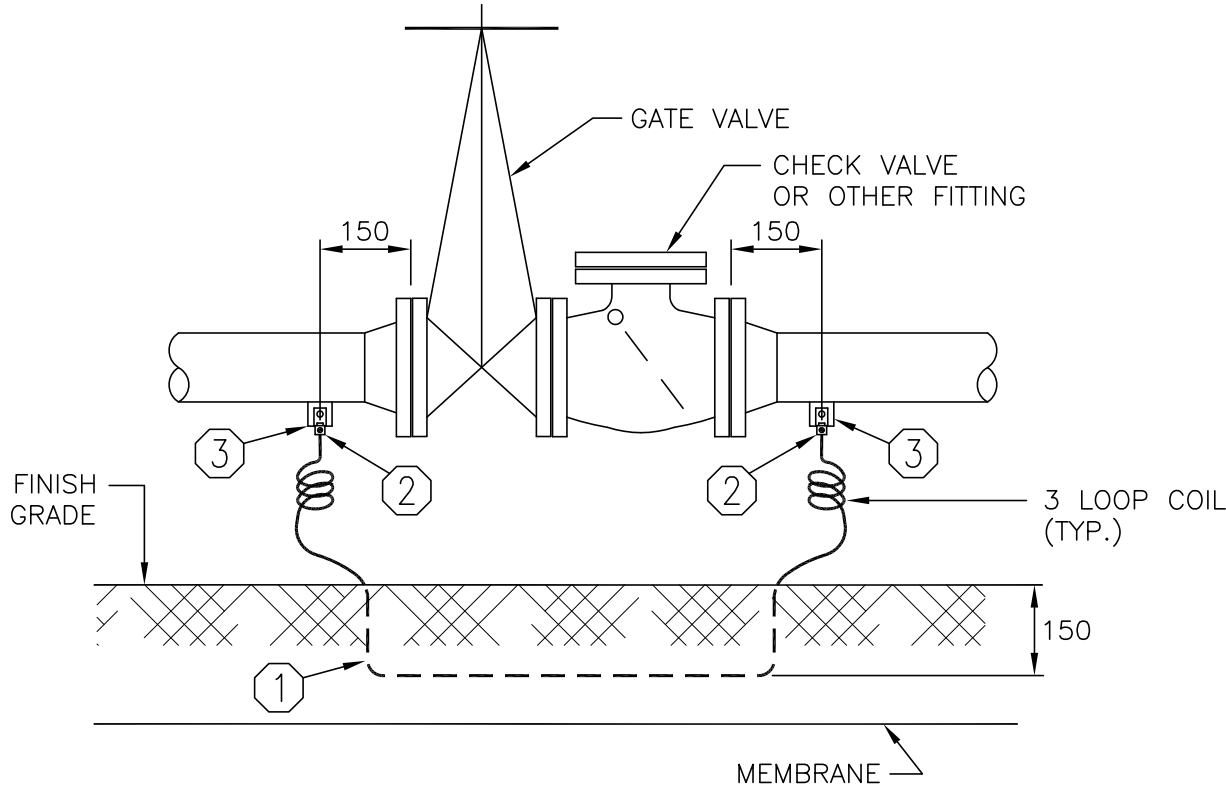
STATIC ELECTRICITY GROUNDING  
CONNECTIONS ACROSS  
GATE OR CHECK VALVES  
N.T.S.



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE
②	COPPER MECHANICAL CONNECTOR ATTACHED WITH BRASS BOLT & NUTS
③	GROUND LUG PLATE 40 x 40 x 6 TH'K

ELECTRICAL DETAIL 5

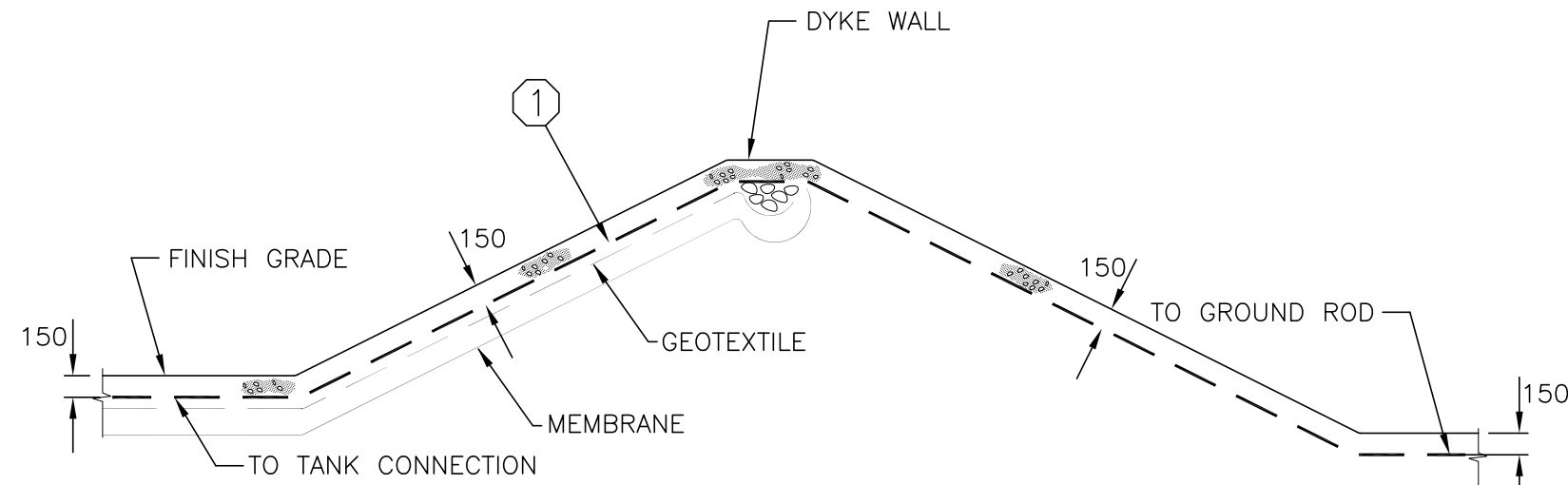
STATIC ELECTRICITY GROUNDING CONNECTIONS  
AT FLANGED CONNECTIONS  
N.T.S.



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE
②	COPPER MECHANICAL CONNECTOR ATTACHED WITH BRASS BOLT & NUTS
③	GROUND LUG PLATE 40 x 40 x 6 TH'K

ELECTRICAL DETAIL 6

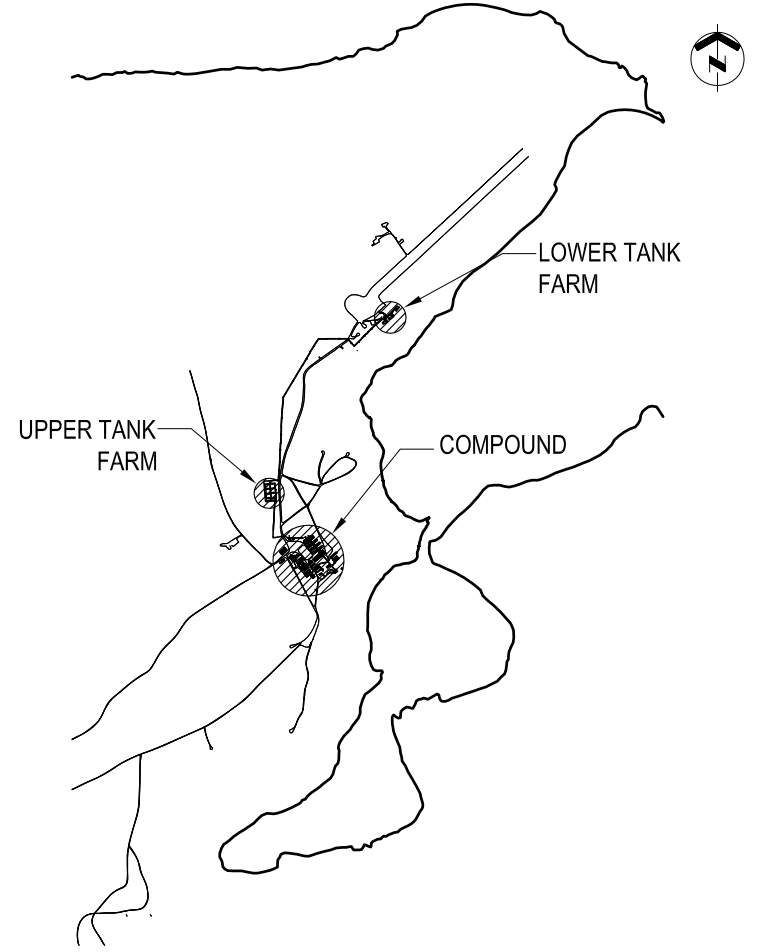
STATIC ELECTRICITY GROUNDING  
CONNECTIONS ACROSS  
GATE AND CHECK VALVES  
N.T.S.



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE

ELECTRICAL DETAIL 7

STATIC ELECTRICITY GROUND  
WIRE INSTALLATION OVER DYKE WALL  
N.T.S.



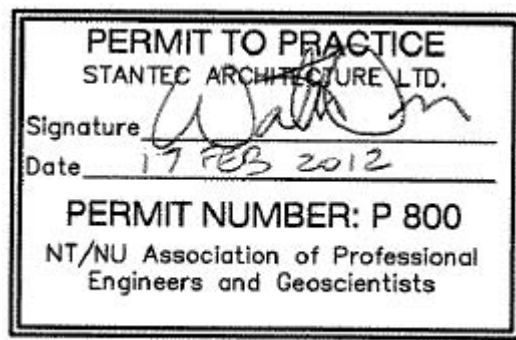
KEY PLAN N.T.S.

GENERAL NOTES  
1. REFER TO ALL OTHER CONTRACT DRAWINGS FOR QUANTITIES OF VALVES, FLEX CONNECTORS, FLANGES AND OTHER EQUIPMENT REQUIRING STATIC ELECTRICITY BONDING JUMPERS AS DETAILED ON THIS DRAWING.

LEGEND

DO NOT SCALE DRAWINGS

NO.	DATE	REVISION	APPR.
01	17/02/2012	ISSUED FOR CONSTRUCTION	WO



SCALE-ÉCHELLE	AS NOTED
PROJECT-PROJET	PF#: 68352

UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

TRADE-MÉTIER	ELECTRICAL	DATE	2011-11-15
--------------	------------	------	------------

ELECTRICAL DETAILS

PRODUCTION	CONCURRENCE-ASSENTMENT	
DESIGNED ÉTUDE	USERS GROUP	
DRAWN DESSINE	P. J. P. O'LEARY PROJ. MGR.	
CHECKED VÉRIFIÉ	FIRE CHIEF CAPT. P. MUSCAT-DRAGO	
COORDINATION	APPROVED - APPROUVÉ S. CHINNATAMBY, ENG O	
DWG. NO. - DESSIN NO.	L - A28 - 9312/3 - 501	