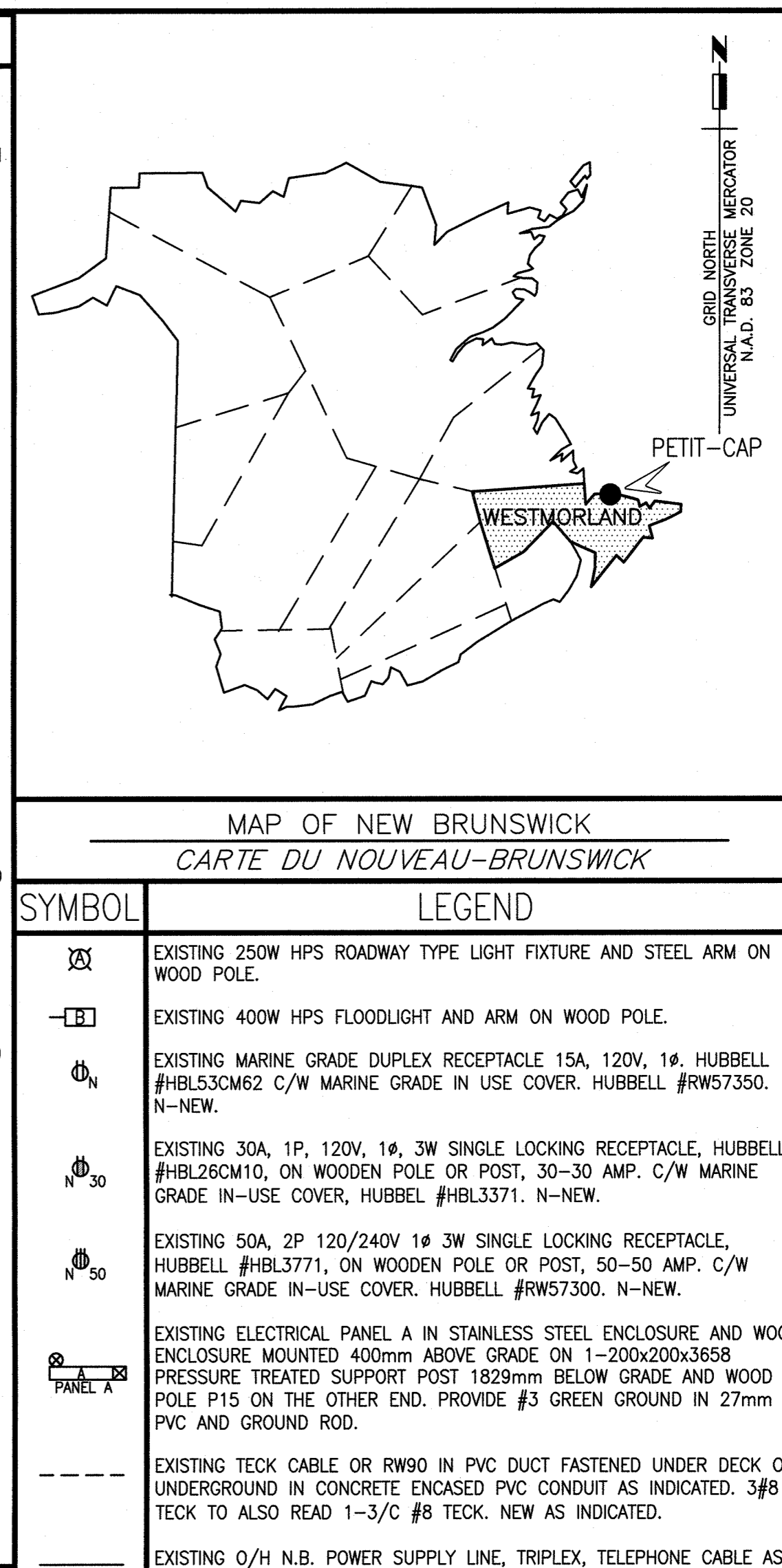


- NEW NOTES**
- NEW U/G FEED FROM PANEL PA IN TRENCH DETAIL A-A.
 - INSTALL NEW PVC EXPANSION JOINTS ON ALL PVC CONDUITS (DETAIL 4 ON DRAWING 2) AT ALL STRUCTURAL CONTROL JOINTS IN DECK OF WHARF. SEE STRUCTURAL DRAWINGS AND NOTE 6 FOR LOCATIONS OF CONTROL JOINTS.
 - NEW 53MM PVC CONDUIT FOR FUTURE COMMS, C/W PULLROPE.
 - EXISTING 3#8+1#8 GND RW90 IN 53mm PVC IN CONCRETE DECK.
 - EXISTING PANEL 'A' TO BE Sanded WHERE RUSTED, PRIMED, THEN PAINTED WITH RUST INHIBITING PAINT. REPLACE BROKEN LATCHES FOR STAINLESS STEEL ENCLOSURE. WEATHER STRIPPING ON WOOD AND STAINLESS STEEL ENCLOSURE TO BE REPLACED TO ENSURE WEATHER RESISTANCE OF ENCLOSURE.
 - NEW STRUCTURAL CONTROL JOINT.
 - EXISTING PVC CONDUIT ON P15 TO BE REPAIRED WHERE BROKEN AND NEW STRAPPING TO BE ADDED EVERY 300mm.
 - FUTURE INSTALLATION OF SHROUD, RECEPTACLES AND WIRING. EMPTY PVC CONDUITS TO BE CAPPED ON TOP AND COVERED WITH PROTECTIVE STEEL COVER PROVIDED BY HARBOR AUTHORITY.
 - REMOVE EXISTING WEATHER HEAD FOR FEED FROM POLE P8 TO POLE P15.
 - REMOVE EXISTING WEATHER HEAD FROM POLE 15.
 - NEW DEVICES ON BACKSIDE OF EXISTING PANEL 'A' WOOD ENCLOSURE TO BE MOUNTED ON EXISTING 50x150mm WOOD HORIZONTAL MEMBER.
 - NEW 300x300x200 PVC JUNCTION BOX MOUNTED TO WOOD MEMBER NOTED IN NOTE 11. ALL WIRES AND CONDUITS TO BE FED THROUGH BOTTOM OF JUNCTION BOX TO PREVENT INGRESS OF WATER.
 - ALL PVC CONDUITS ARE INSTALLED IN DECK SLAB AND TRENCHES UNDER A PREVIOUS CONTRACT. UNDER THIS CONTRACT CARRY OUT ALL WORK IN NEW NOTES 5, 7, 8, 9, 10, 11 AND 12 C/W ALL WIRE IN CONDUIT IN SLABS AND NEW TRENCH DETAILS A-A, B-B, C-C AND D-D C/W ALL RECEPTACLES, LIGHTS, POLES, PANEL AND ENCLOSURE UPGRADES NOTES IN NOTES AND LEGEND.
 - MAKE CONNECTION TO EACH HOIST AND TEST OPERATION C/W STAINLESS 4X DISCONNECTS AT EACH HOIST.



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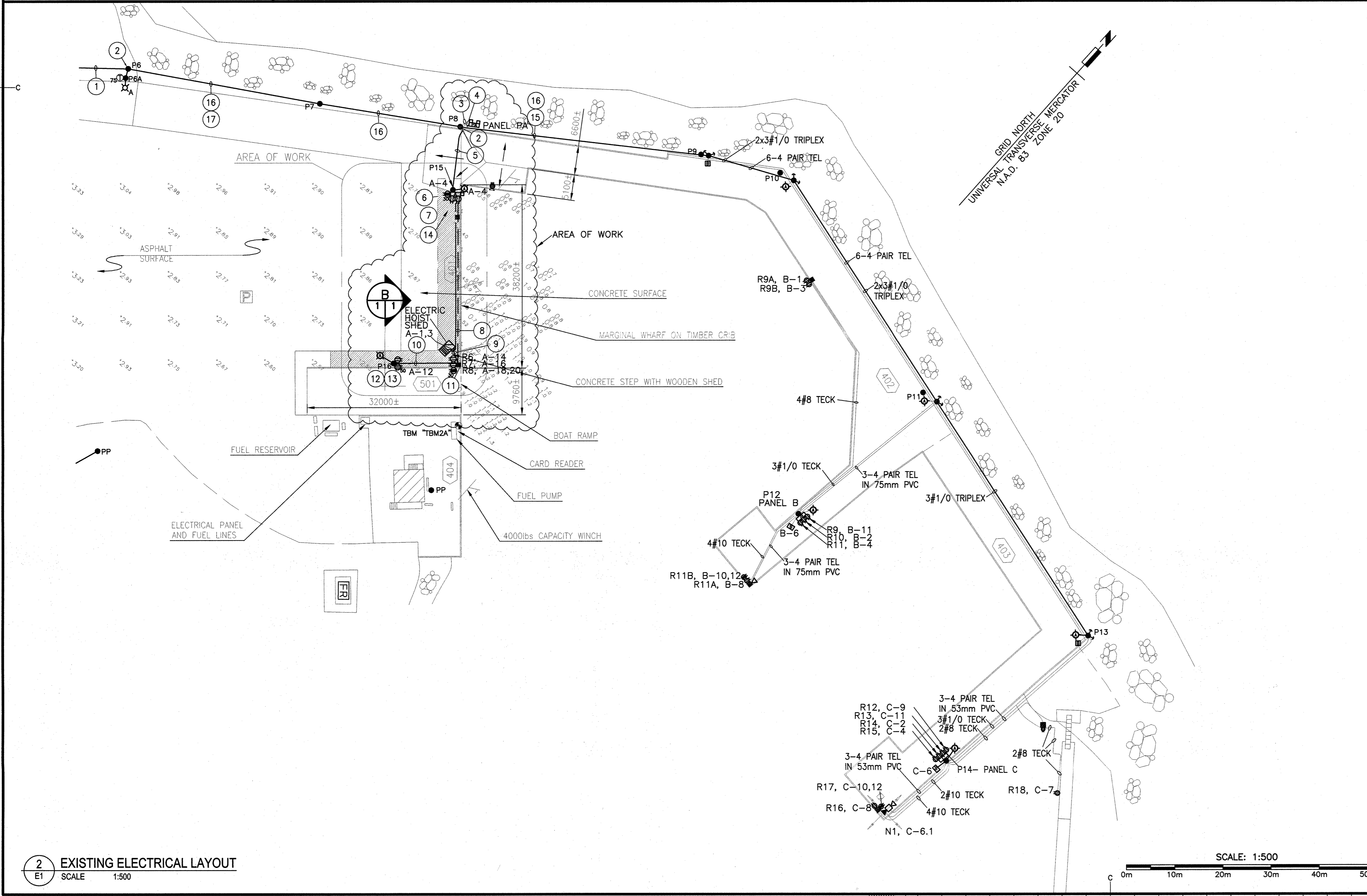
electrical consultant

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Stamp

Stamp



- EXISTING NOTES**
- EXISTING NB POWER 7200V 1# O/H LINE AND HARDWARE.
 - EXISTING MAIN 400A, 120/240V, 1# 3W FUSED DISCONNECT IN WEATHERPROOF ENCLOSURE AND NB POWER METER #943479.
 - EXISTING 3#500 MCM AND 1#3/0 GND RW90 IN CABLE GUARD FROM TOP OF POLE, DOWN POLE TO 103mm PVC 1 METER UNDERGROUND TO PANEL PA IN ENCLOSURE.
 - EXISTING 2 RUNS OF 3#1/0 AND 1#3 GND RW90 IN CABLE GUARD UP POLE TO WEATHERHEAD AND UNDERGROUND IN PVC TO PANEL PA IN ENCLOSURE TO FEED WHARF'S 402 & 403.
 - EXISTING 3#3/0 AND 1#3 GND RW90 BETWEEN POLES FED OVERHEAD FROM PANEL PA ENCLOSURE TO PANEL A IN ENCLOSURE ON POLE 15.
 - EXISTING STAINLESS STEEL ENCLOSURE FOR PANEL A IN WOOD ENCLOSURE.
 - EXISTING 30A 120/240V 1# 3W TWISTLOCK MARINE GRADE RECEPTACLE WITH WEATHER PROOF COVER PLATE.
 - EXISTING 9#10, 2#8, 3#4, AND 1#3 GND RW90 IN 53mm PVC CONDUIT 300mm U/G, ALONG WITH 3#6 AND 1#8 GND RUN IN SAME CONDUIT.
 - EXISTING 3#6 AND 1#8 GND RW90 U/G IN 35mm PVC CONDUIT.
 - EXISTING 3#10, 2#8, 3#4, AND 1#3 GND RW90 IN 53mm PVC CONDUIT.
 - EXISTING TWO (2) MARINE GRADE 15A 1P DUPLEX RECEPTACLE WITH WEATHERPROOF COVER AND ONE (1) 30A 2P TWISTLOCK MARINE GRADE RECEPTACLE WITH WEATHERPROOF COVER.
 - EXISTING SWITCHES ON POLE P16 TO OPERATE TYPE 'A' AND TYPE 'B' LIGHT FIXTURES. TYPE 'B' FLOOD LIGHT FIXTURE IS MISSING.
 - EXISTING 50A 2P TWISTLOCK MARINE GRADE RECEPTACLE AND WEATHERPROOF COVER ON POLE 16.
 - EXISTING TWO (2) MARINE GRADE 15A 1P DUPLEX RECEPTACLES WITH WEATHERPROOF COVER MOUNTED ON WOOD POST.
 - EXISTING 2 RUNS OF 3#1/0 TRIPLEX FOR PANEL B AND C.
 - EXISTING 2 RUNS OF TRIPLEX FOR 400A, 120/240V, 1# 3W SERVICE.
 - EXISTING ALIANT O/H SERVICE STOPS AT POLE P7.

revisions	description	date
ISSUED FOR TENDER (PHASE 2)		2017 01.20
ISSUED FOR TENDER		2016 04.08

project

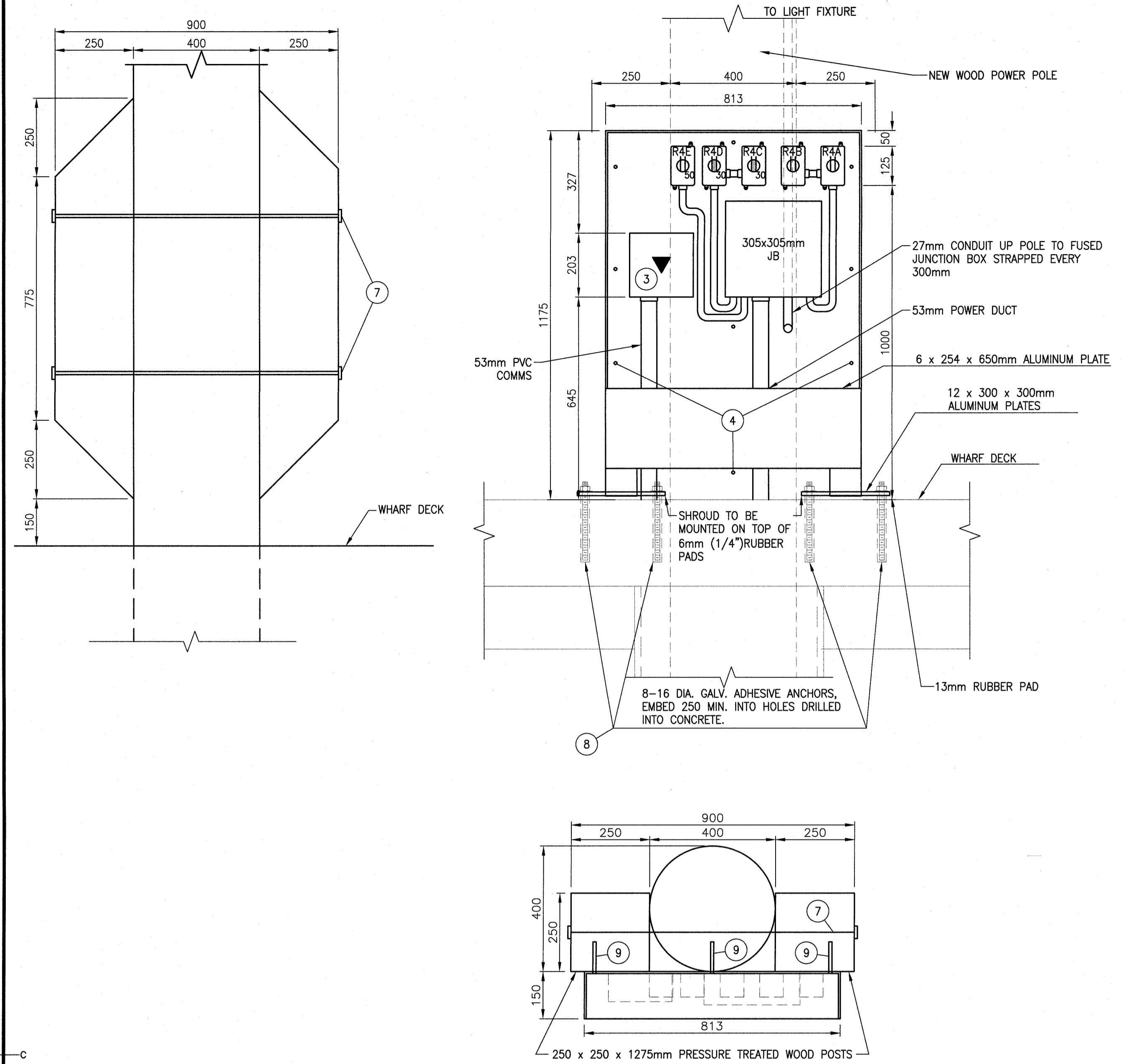
WHARF RECONSTRUCTION STRUCTURE 401 PETIT-CAP, N.B.

drawing

ELECTRICAL NEW & EXISTING LAYOUTS & DETAILS

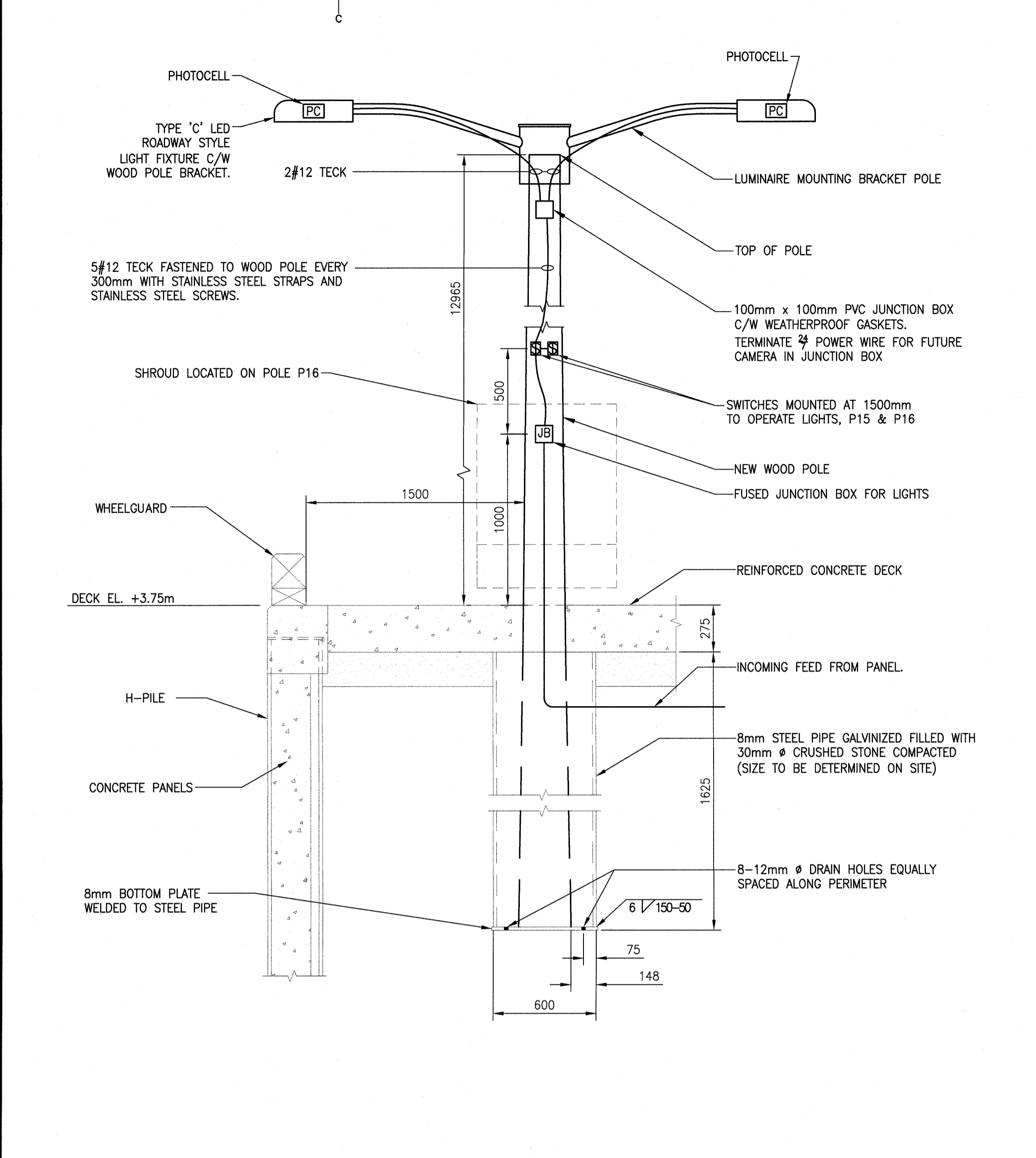
designed RALPH SMITH, L.C., P.ENG. conqju
date 2016.04.08
drawn WILLIAM GOURLEY dessiné
date 2016.04.08
approved RALPH SMITH, L.C., P.ENG. approuvé
date 2016.04.08
Tender Soumission
PWGSC Project Manager Administrateur de projets TPWGC
project number no. du projet
R.076593.001
drawing no. no. du dessin
E1 of 3

E-DRM/GDD-E 529550 1600



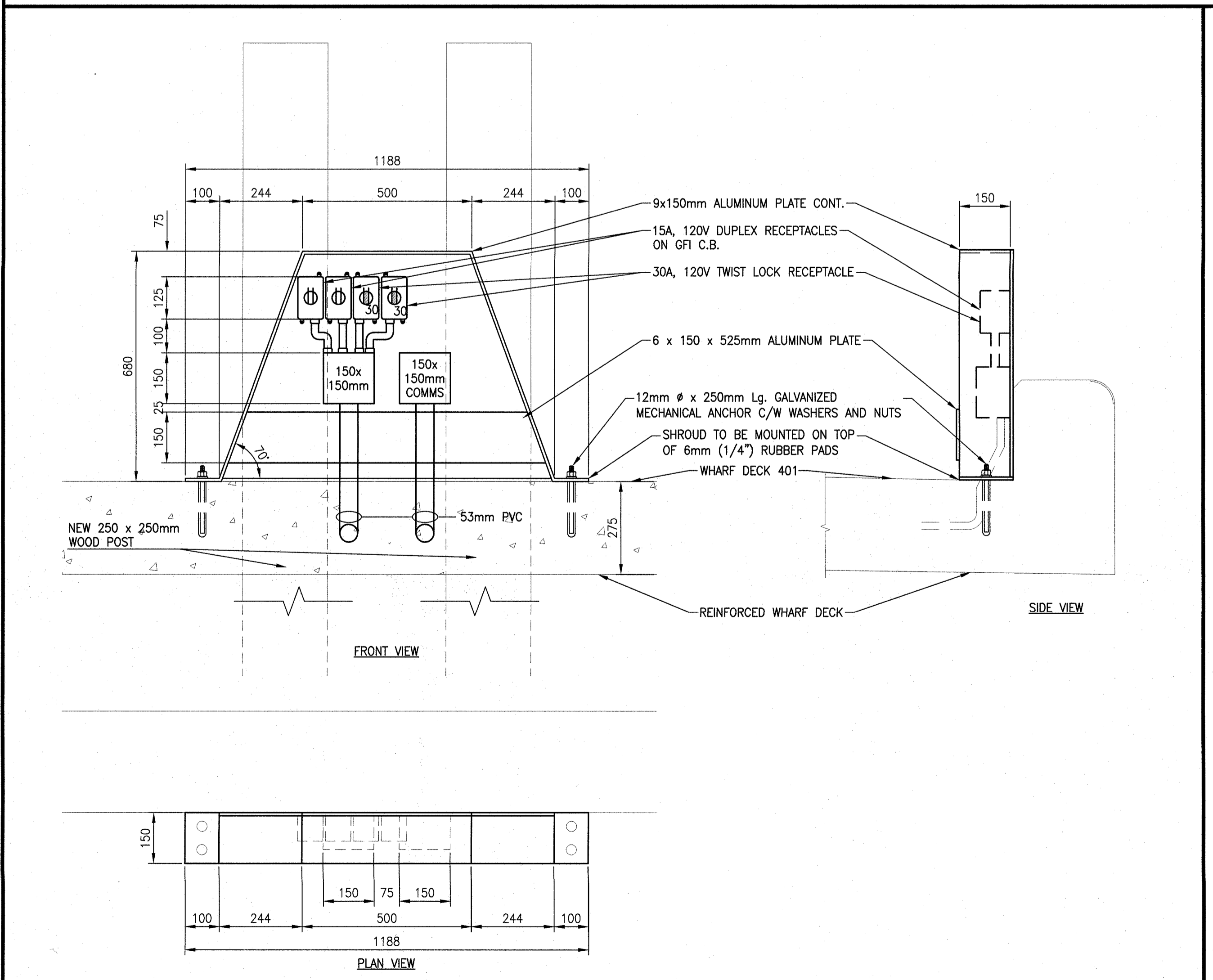
6 SHROUD DETAIL POLE P16
SCALE: N.T.S.

SCALE: N.T.S.



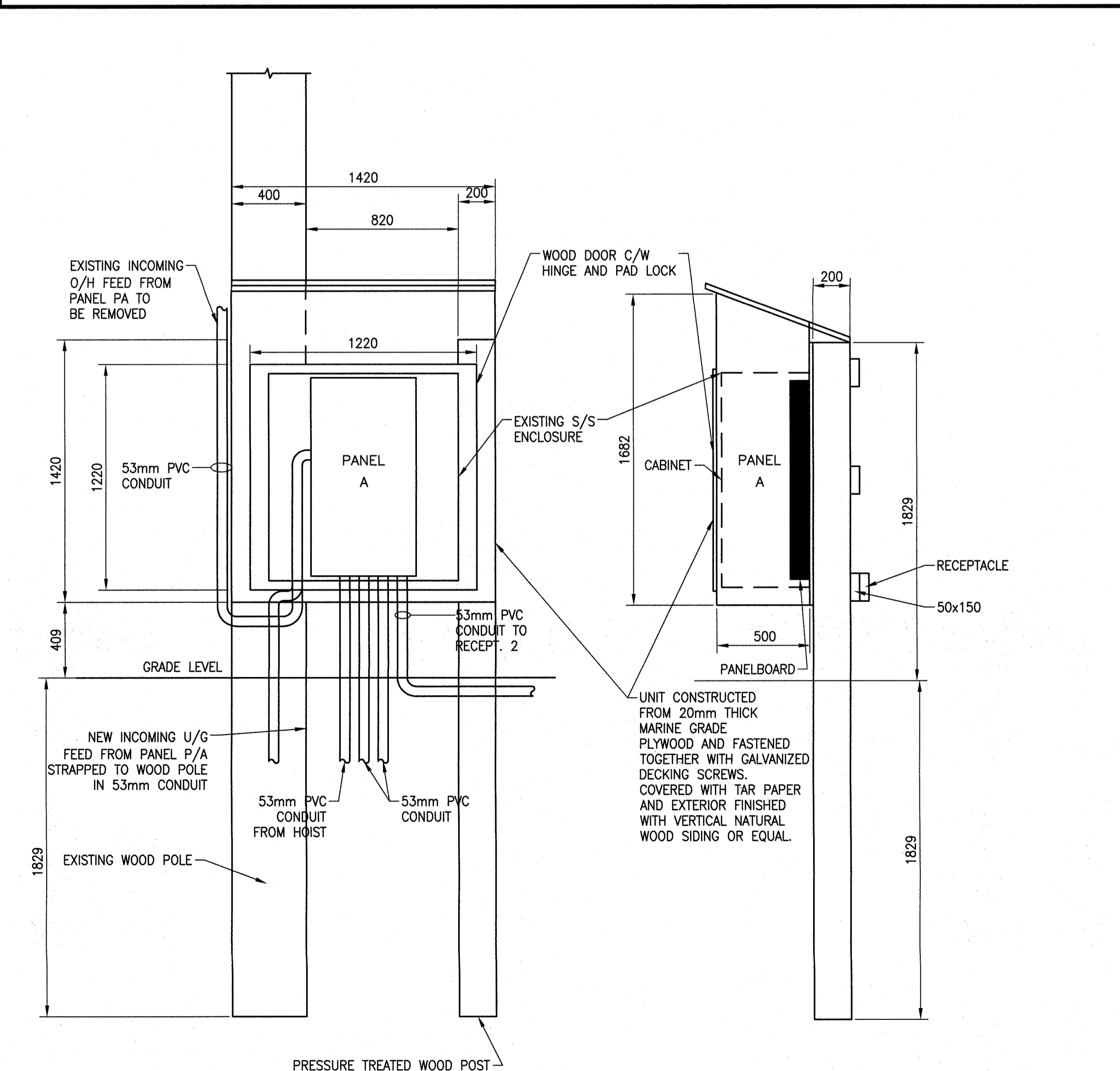
1 NEW TYPICAL WOOD LIGHT POLE DETAIL
SCALE: N.T.S.

SCALE: N.T.S.



5 FUTURE SHROUD DETAIL - ES-1
SCALE: N.T.S.

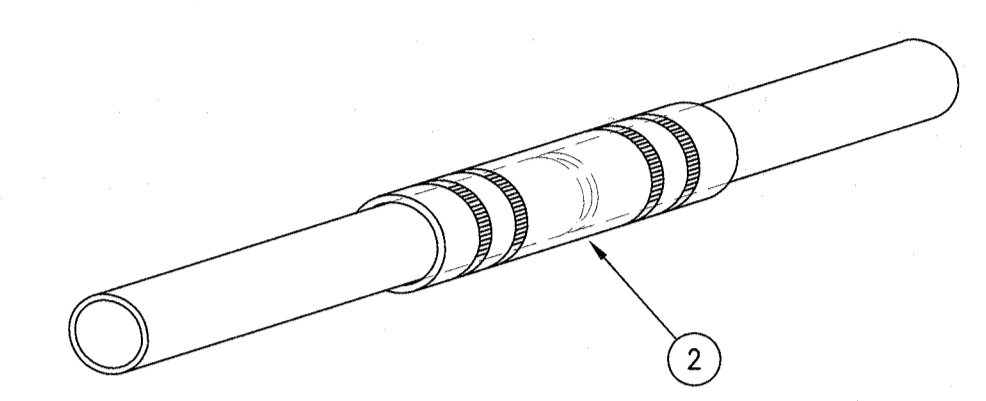
SCALE: N.T.S.



2 EXISTING PANEL A, S/S CABINET AND WOOD ENCLOSURE
SCALE: N.T.S.

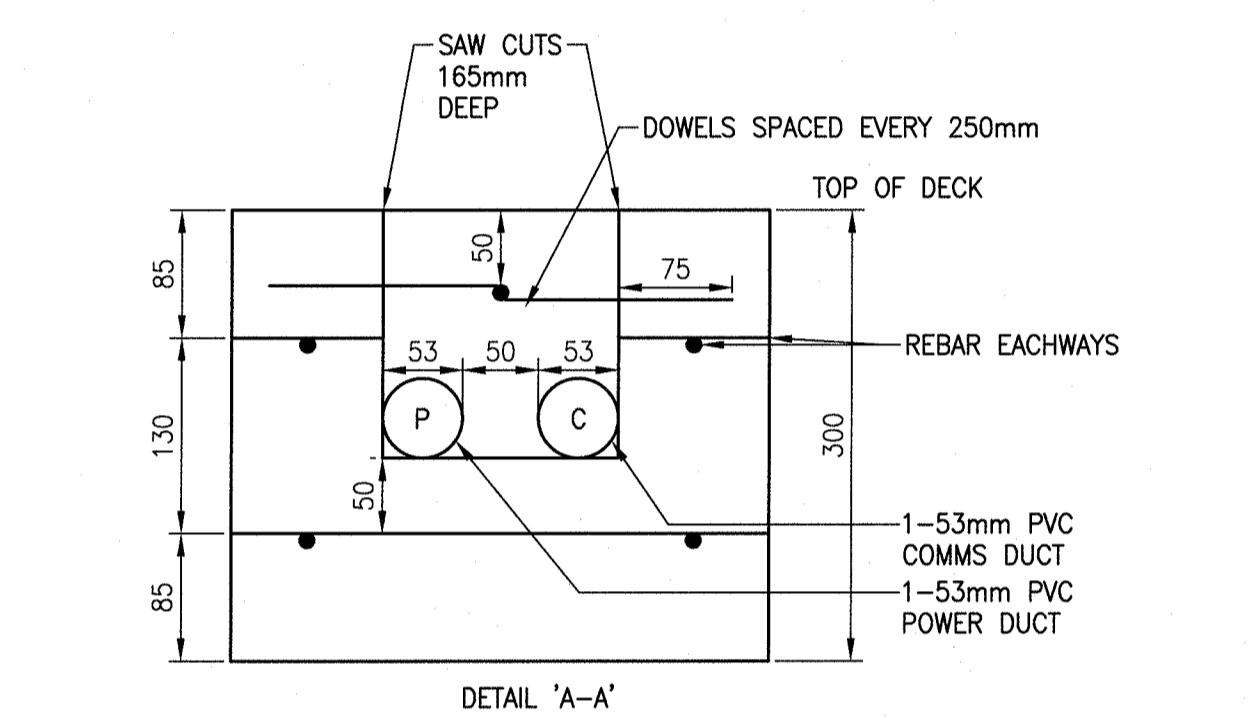
SCALE: N.T.S.

- NOTES
- TYPE 'C' FIXTURE WITH BRACKET ON POLE 16 ILLUMINATING BOAT LAUNCH. TYPE 'A' FIXTURE ON POLES 15, 16, 17, DIRECTIONS AS SHOWN ON E1.
 - REFER TO STRUCTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS WHERE EACH 53mm PVC CONDUIT NEEDS AN EXPANSION JOINT CONNECTION. LOCATED ON CONTROL JOINTS AS SHOWN ON E1 AND M2.
 - NEW 203x203x100mm PVC JUNCTION BOX FOR TELEPHONE CAT.6 AND TELEPHONE OUTLET.
 - THREE 150mm STAINLESS STEEL LAG BOLTS TO FASTEN ALUMINUM CABINET TO WOOD POSTS AND POLE AT 3 LOCATIONS (TOTAL NINE).
 - ALL PVC CONDUITS ARE INSTALLED IN DECK SLAB AND TRENCHES UNDER A PREVIOUS CONTRACT. UNDER THIS CONTRACT SUPPLY AND INSTALL ALL WORK IN DETAILS ABOVE GRADE AND SUPPLY AND INSTALL ALL WIRES IN EXISTING CONDUITS BELOW GRADE.

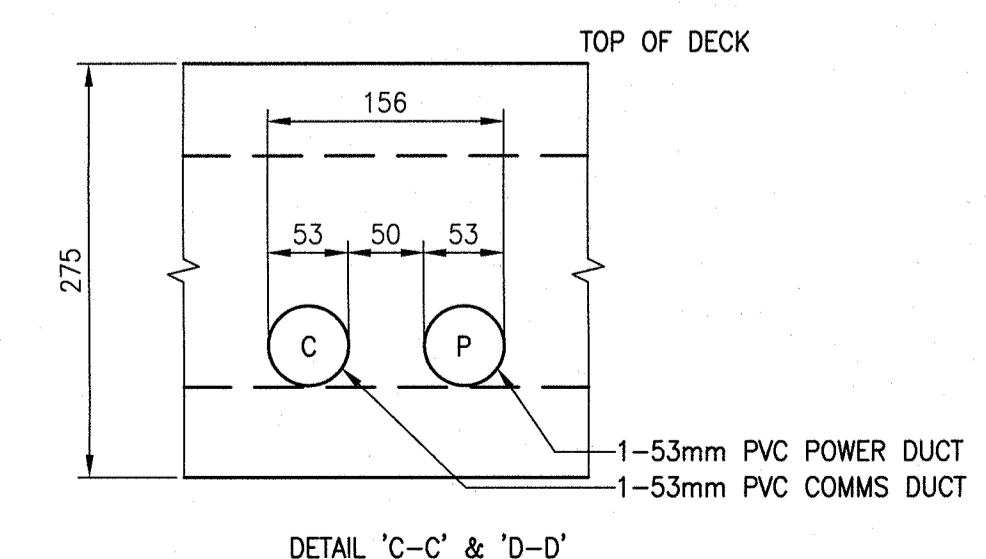
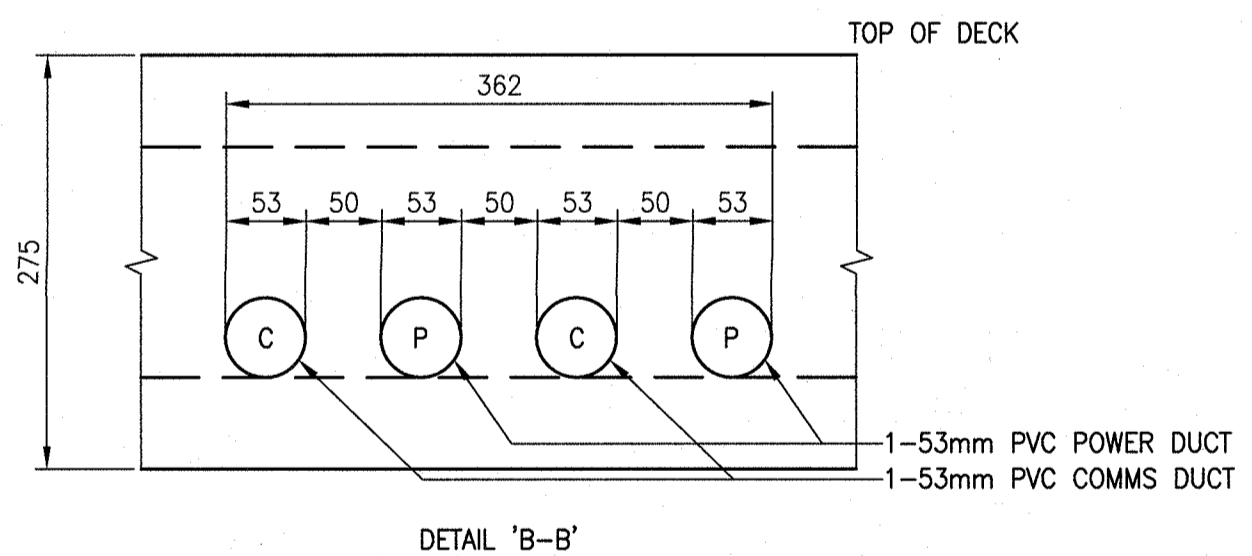


4 EXPANSION JOINT DETAIL
SCALE: N.T.S.

SCALE: N.T.S.



P - POWER
C - COMMS



3 NEW TRENCH DETAILS
SCALE: N.T.S.

SCALE: N.T.S.

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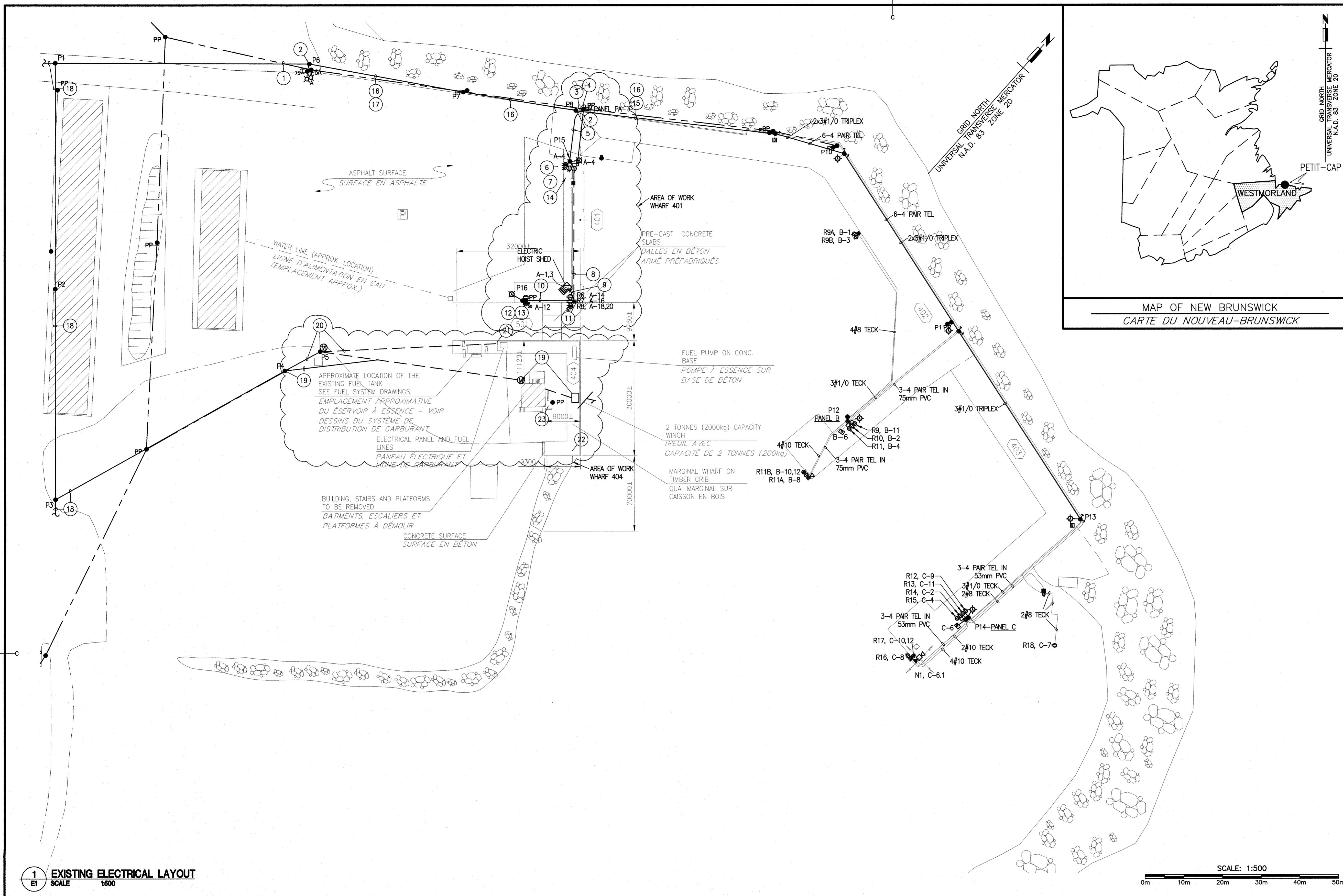
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ISSUED FOR TENDER (PHASE 2)	2017 01.20
ISSUED FOR TENDER	2016 04.08
revisions	description date
project	project

**WHARF RECONSTRUCTION
STRUCTURE 401
PETIT-CAP, N.B.**

**LIGHT POLE, TRENCH
& POWER CENTRE
LAYOUTS AND DETAILS**

designed	RALPH SMITH, L.C., P.ENG.	compé
date	2016.04.08	
drawn	WILLIAM GOURLEY	dessiné
date	2016.04.08	
approved	RALPH SMITH, L.C., P.ENG.	approuvé
date	2016.04.08	
Tender		Submission
PWSC Project Manager	Administrateur de projets TPSC	
project number	no. du projet	
	R.076593.001	
drawing no.	no. du dessin	
	E2 of 3	



SYMBOL		LEGEND	
	EXISTING 250W HPS ROADWAY TYPE LIGHT FIXTURE AND STEEL ARM ON WOOD POLE.		EXISTING 400W HPS FLOODLIGHT AND ARM ON WOOD POLE.
	EXISTING LED ROADWAY STYLE FIXTURE AND STEEL ARM ON WOOD POLE N-NEW.		NEW 354W LED LIGHT FIXTURE.
	NEW LED 305 X 1220MM ROOM LIGHT.		NEW LED EXTERIOR WALL PACK LIGHT FIXTURE C/W PHOTOCELL.
	LIGHTING BY-PASS SWITCH 15A, 120V.		PHOTO ELECTRIC CELL 120V 30A.
	EXISTING MARINE GRADE DUPLEX RECEPTACLE 15A, 120V, 1Ø, HUBBELL #BEL530M62 C/W MARINE GRADE IN-USE COVER, HUBBELL #RW57350, N-NEW.		EXISTING 30A, 1P, 120V, 1Ø, 3W SINGLE LOCKING RECEPTACLE, HUBBELL #BEL280M10, ON WOODEN POLE OR POST, 30-30 AMP, C/W MARINE GRADE IN-USE COVER, HUBBELL #BEL3371, N-NEW.
	EXISTING 50A, 2P 120/240V 1Ø 3W SINGLE LOCKING RECEPTACLE, HUBBELL #BEL3771, ON WOODEN POLE OR POST, 50-50 AMP, C/W MARINE GRADE IN-USE COVER, HUBBELL #RW57300, N-NEW.		30A 120/240V 1Ø 4W TWIST LOCK RECEPTACLE C/W WEATHERPROOF COVERPLATE, N-NEW, 30-30 AMP.
	EXISTING ELECTRICAL PANEL A IN STAINLESS STEEL ENCLOSURE AND WOOD ENCLOSURE MOUNTED 400mm ABOVE GRADE ON 1-200x200x3859 PRESSURE TREATED SUPPORT POST 1829mm BELOW GRADE AND WOOD POLE P15 ON THE OTHER END. PROVIDE #3 GREEN GROUND IN 27mm PVC AND GROUND ROD.		ELECTRICAL PANEL.
	EXISTING TECK CABLE OR RW90 IN PVC DUCT FASTENED UNDER DECK OR UNDERGROUND IN CONCRETE ENCASED PVC CONDUIT AS INDICATED. 3/8 TECK TO ALSO READ 1-3/8 #8 TECK, NEW AS INDICATED.		EXISTING 0/H N.B. POWER SUPPLY LINE, TRIPLEX, TELEPHONE CABLE AS INDICATED.
	EXISTING 14.5m CLASS 2 PRESSURE TREATED WOOD POLE, 'N'-NEW.		EXISTING POLE MOUNTED TRANSFORMER BY N.B. POWER, '75' INDICATING 75KVA.
	FUTURE ELECTRICAL SERVICE SHROUD, '1' INDICATES SHROUD NUMBER.		NB POWER GUY WIRE.
	ELECTRICAL CONTRACTOR 4P, 30A, 120V.		WINCH 240V, 1Ø RATED AS NOTED.
	UTILITY METER SOCKET AND UTILITY METER & TRANSFORMERS IN CABINETS TO NB POWER STANDARDS.		TEL/DATA OUTLET C/W CAT.6 CABLE IN 19mm EMT.
	1000W 120V ELECTRICAL BASEBOARD HEATER.		120V, 15A THERMOSTAT.
	GROUND FAULT INTERRUPTER CIRCUIT BREAKER.		

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Maritimes / Gulf Region

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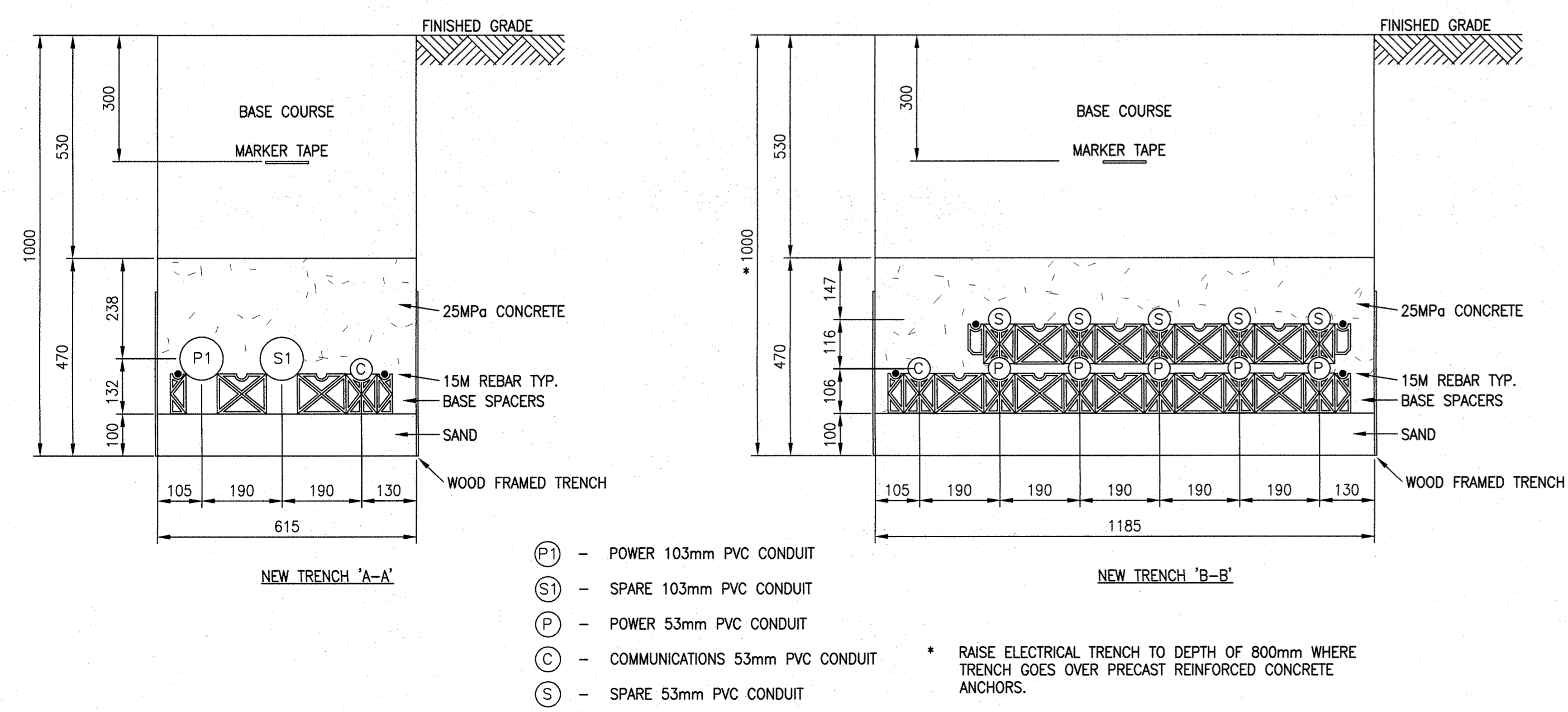
TEL: (506)48-8664

North: _____ Stamp: _____ Etampe: _____

ralph@rsnet.nb.ca

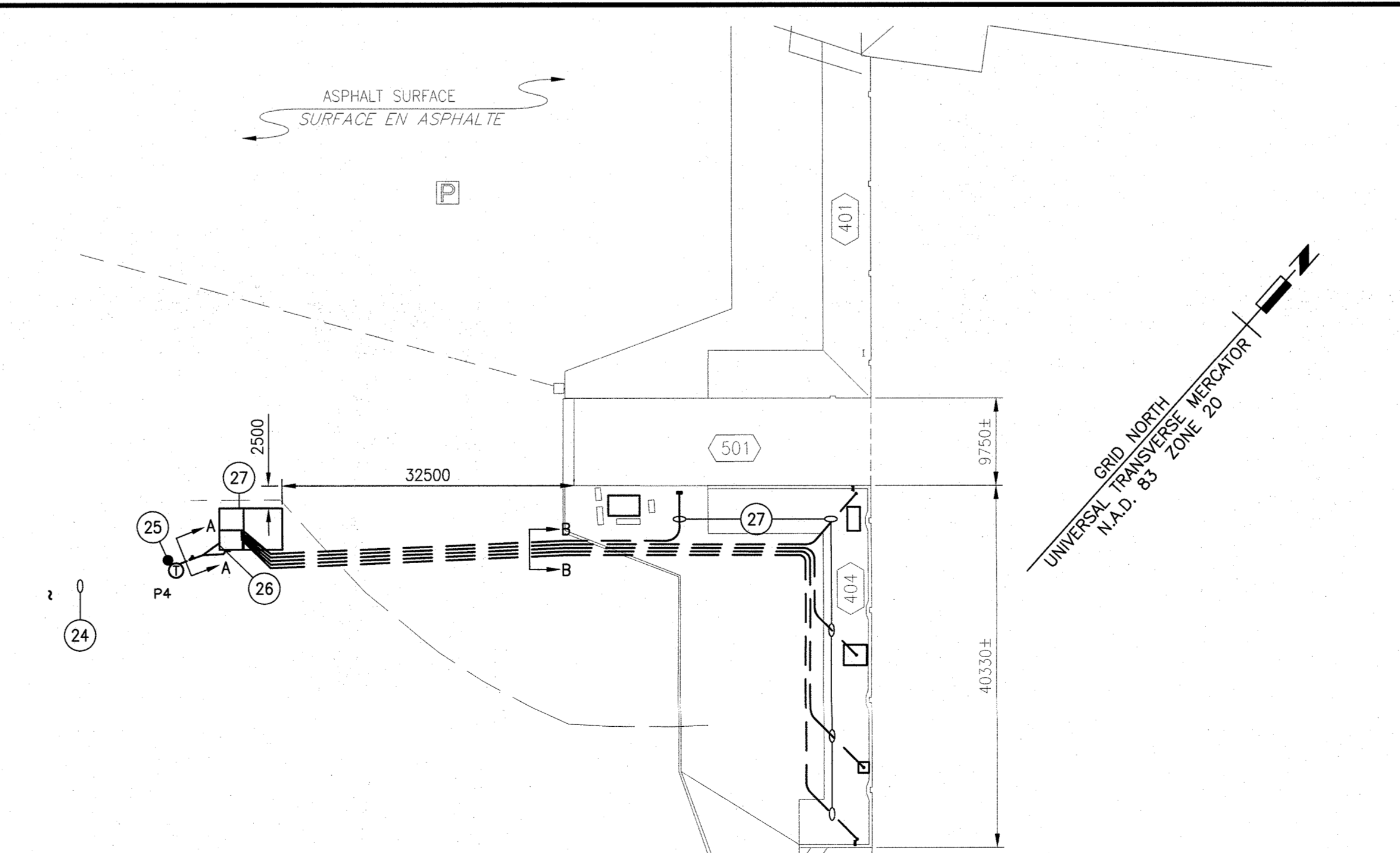
- ### NOTES
- EXISTING NB POWER 7200V 1Ø 0/H LINE AND HARDWARE.
 - EXISTING MAIN 400A, 120/240V, 1Ø, 3W FUSED DISCONNECT IN WEATHERPROOF ENCLOSURE AND NB POWER METER #943479.
 - EXISTING 3Ø500 MCM AND 1Ø3/0 GND RW90 IN CABLE GUARD FROM TOP OF POLE DOWN POLE TO 103mm PVC 1 METER UNDERGROUND TO PANEL PA IN ENCLOSURE.
 - EXISTING 2 RUNS OF 3Ø1/0 AND 1Ø3 GND RW90 IN CABLE GUARD UP POLE TO WEATHERHEAD AND UNDERGROUND IN PVC TO PANEL PA IN ENCLOSURE TO FEED WHARFS 402 & 403.
 - EXISTING 3Ø3/0 AND 1Ø3 GND RW90 BETWEEN POLES FEED OVERHEAD FROM PANEL PA ENCLOSURE TO PANEL A IN ENCLOSURE ON POLE 15.
 - EXISTING STAINLESS STEEL ENCLOSURE FOR PANEL A IN WOOD ENCLOSURE.
 - EXISTING 30A 120/240V 1Ø 3W TWISTLOCK MARINE GRADE RECEPTACLE WITH WEATHER PROOF COVER PLATE.
 - EXISTING 9Ø10, 2Ø8, 3Ø4, AND 1Ø3 GND RW90 IN 53mm PVC CONDUIT 300mm U/G, ALONG WITH 3Ø6 AND 1Ø8 GND RUN IN SAME CONDUIT.
 - EXISTING 3Ø6 AND 1Ø8 GND RW90 U/G IN 35mm PVC CONDUIT.
 - EXISTING 3Ø10, 2Ø8, 3Ø4, AND 1Ø3 GND RW90 IN 53mm PVC CONDUIT.
 - EXISTING TWO (2) MARINE GRADE 15A 1P DUPLEX RECEPTACLE WITH WEATHERPROOF COVER AND ONE (1) 30A 2P TWISTLOCK MARINE GRADE RECEPTACLE WITH WEATHERPROOF COVER.
 - EXISTING SWITCHES ON POLE P16 TO OPERATE TYPE 'A' AND TYPE 'B' LIGHT FIXTURES. TYPE 'B' FLOOD LIGHT FIXTURE IS MISSING.
 - EXISTING 50A 2P TWISTLOCK MARINE GRADE RECEPTACLE AND WEATHERPROOF COVER ON POLE 16.
 - EXISTING TWO (2) MARINE GRADE 15A 1P DUPLEX RECEPTACLES WITH WEATHERPROOF COVER MOUNTED ON WOOD POST.
 - EXISTING 2 RUNS OF 3Ø1/0 TRIPLEX FOR PANEL B AND C.
 - EXISTING 2 RUNS OF TRIPLEX FOR 400A, 120/240V, 1Ø, 3W SERVICE.
 - EXISTING ALIANT 0/H SERVICE STOPS AT POLE P7.
 - EXISTING NB POWER 12.47KV 3Ø 0/H LINE & HARDWARE.
 - EXISTING NB POWER POLE P4 C/W 3 POLE MOUNTED TRANSFORMERS AND A 600V 3Ø CABLE DOWN THE POLE AND UNDERGROUND TO THE ICE HOUSE. 100A 3Ø/600V, 3Ø, 4W SERVICE AND NB POWER METER #934183 TO FEED THE 600V ICE MACHINE AND 600V WINCH WITH A STEP DOWN TRANSFORMER IN THE ICE HOUSE FOR 120/240V SERVICE IN THE ICE HOUSE. SERVICE TO BE REMOVED.
 - EXISTING NB POWER 60A 120/240V 1Ø SERVICE AND NB POWER METER #771679 ON POLE P5 FEED OVERHEAD FROM POLE P4 AND THEN FROM POLE P5 UNDERGROUND TO THE FUEL PUMP AND WHARF RECEPTACLES. TELEPHONE SERVICE FOLLOWS THE SAME ROUTING TO THE FUEL PUMP AND ICE HOUSE. SERVICE TO BE REPLACED.
 - EXISTING ELECTRICAL PANEL AT GAS PUMP TO BE REPLACED.
 - EXISTING 30A TWISTLOCK 120V 1Ø RECEPTACLE ON METAL POST TO BE REPLACED.
 - VARIOUS RECEPTACLE LIGHTS, CCTV CAMERAS MOUNTED ON THE EXTERIOR WALLS OF ICE HOUSE TO BE REMOVED.
 - COORDINATE WITH NB POWER AND ALIANT TO PROVIDE 7200V, 1Ø POWER AND CAT.6 TEL/DATA SERVICE TO POLE P4.
 - COORDINATE WITH NB POWER AND ALIANT TO PROVIDE 7200V TO 120/240V, 1Ø, 3Ø VIA TRANSFORMER AND TEL/DATA SERVICE TO POLE P4. PROVIDE 400A, 120/240V, 1Ø, 3W WEATHERHEAD AND SERVICE MAST ON POLE P4 AND ALSO 53mm TEL/DATA WEATHERHEAD AND SERVICE MAST ON POLE P4 WITH CONNECTION TO TRENCH DETAIL 'A-A' AT BASE OF POLE P4.
 - PROVIDE ELECTRICAL SERVICE GROUNDING ON AS DETAILED ON DRAWING E5.
 - REFER TO DRAWINGS E2, E4 AND E5 FOR ELECTRICAL DETAILS.
 - NOTES 1 & 16 DENOTE EXISTING CONDITIONS IN AREA OF WORK UNDER THIS CONTRACT FOR WHARF 401. SEE DRAWINGS E1 OF 3, E2 OF 3 AND E3 OF 3 AND SPECIFICATION FOR WHARF 401 FOR SCOPE OF WORK UNDER THIS CONTRACT.
 - NOTES 18 TO 27 DENOTE EXISTING AND NEW WORK IN THE AREA OF WORK UNDER THIS CONTRACT FOR WHARF 404 AND 501 ALONG WITH DETAILS 2 AND 3. SEE DRAWINGS E1 TO E5 AND SPECIFICATION FOR WHARF 404 AND 501 FOR SCOPE OF WORK UNDER THIS CONTRACT.

1 EXISTING ELECTRICAL LAYOUT
SCALE 1:500



2 NEW TRENCH DETAILS
SCALE N.T.S.

- (P) - POWER 103mm PVC CONDUIT
 - (S) - SPARE 103mm PVC CONDUIT
 - (P) - POWER 53mm PVC CONDUIT
 - (C) - COMMUNICATIONS 53mm PVC CONDUIT
 - (S) - SPARE 53mm PVC CONDUIT
- * RAISE ELECTRICAL TRENCH TO DEPTH OF 800mm WHERE TRENCH GOES OVER PRECAST REINFORCED CONCRETE ANCHORS.



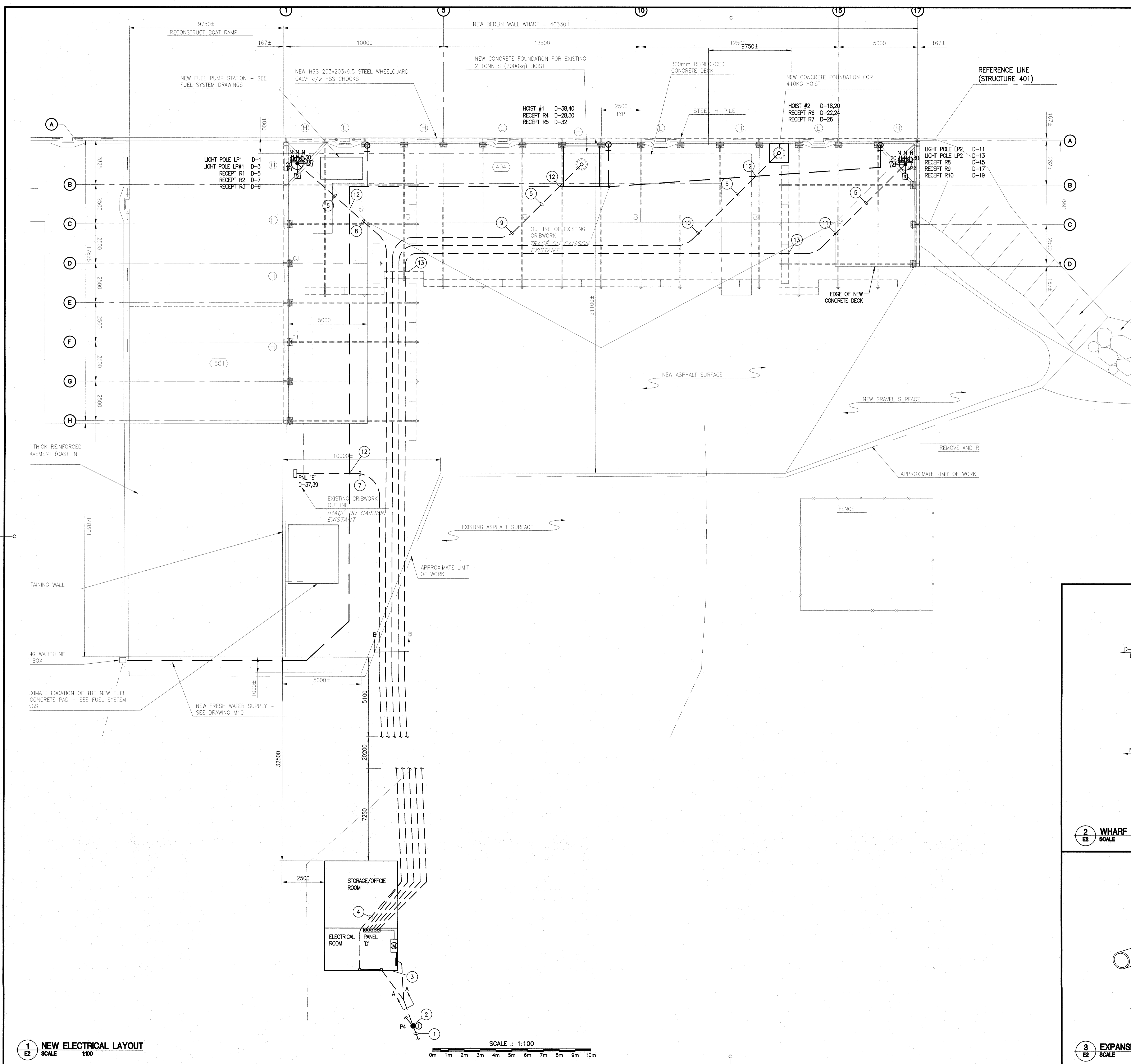
3 NEW SITE PLAN
SCALE 1:500

SCALE : N.T.S.

1	ISSUED FOR TENDER	2017 01.20
revisions		date
project		project

WHARF RECONSTRUCTION
RECONSTRUCTION DU QUAI
STRUCTURE 404 & 501
PETIT-CAP, NB
COMTÉ DE WESTMORLAND COUNTY

ELECTRICAL EXISTING LAYOUTS & DETAILS	
designed RALPH SMITH, P.ENG.	conçu
date 2016.09.16	
drawn WILLIAM GOURLEY	dessiné
date 2016.09.16	
approved RALPH SMITH, P.ENG.	approuvé
date 2016.09.16	
Tender	Submission
Project Manager Administrateur de projets	
project number no. du projet	
721989	
drawing no. no. du dessin	
E1 of 6	



- ### NOTES
- COORDINATE WITH NB POWER AND AJUNT TO PROVIDE 7200V, 1φ POWER AND CAT.5 TEL/DATA SERVICE TO POLE P4.
 - COORDINATE WITH NB POWER AND AJUNT TO PROVIDE 7200V TO 120/240V, 1φ, 50KVA TRANSFORMER AND TEL/DATA SERVICE TO POLE P4. PROVIDE 400A, 120/240V, 1φ, 3W WEATHER-HEAD AND SERVICE MAST ON POLE P4 AND ALSO 53MM TEL/DATA WEATHER-HEAD AND SERVICE MAST ON POLE P4 WITH CONNECTION TO TRENCH DETAIL 'A-A' AT BASE OF POLE P4.
 - PROVIDE ELECTRICAL SERVICE GROUNDING ON AS DETAILED ON DRAWING E5.
 - NEW 53MM PVC CONDUIT FOR COMMS, C/W PULLROPE.
 - PVC EXPANSION JOINTS ON ALL PVC CONDUITS (DETAIL 3 ON DRAWING 2) AT ALL STRUCTURAL CONSTRUCTION JOINTS IN DECK OF WHARF. SEE NOTE 6 FOR LOCATIONS OF CONSTRUCTION JOINTS.
 - STRUCTURAL CONSTRUCTION JOINT EVERY 12 METERS. ALLOW FOR 4 CONSTRUCTION JOINTS IN CONCRETE DECK.
 - 3#6 + 1#8 GND RW90 IN 53mm PVC; 3-CAT.6 IN 53mm PVC; AND 1-53mm PVC SPARE.
 - 5#12, 4#6, 2#4 + 1#8 GND RW90 IN 53mm PVC; AND 1-53mm PVC SPARE.
 - 3#3, 5#6 + 1#6 GND RW90 IN 53mm PVC; AND 53mm PVC SPARE.
 - 3#4, 3#6, 2#4 + 1#8 GND RW90 IN 53mm PVC; AND 1-53mm PVC SPARE.
 - 5#12, 4#4, 2#3 + 1#6 GND RW90 IN 53mm PVC; AND 1-53mm PVC SPARE.
 - COORDINATE ELECTRICAL TRENCH TO BE INSTALLED AT 1000mm BELOW GRADE AND BELOW WATER LINES AT 400mm BELOW GRADE.
 - RAISE ELECTRICAL TRENCH TO DEPTH OF 800MM WHERE TRENCH GOES OVER PRECAST REINFORCED CONCRETE ANCHORS.

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Small Craft Harbours / Ports pour Petits Bateaux / Région des Maritimes / Goffs

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electrical consultant

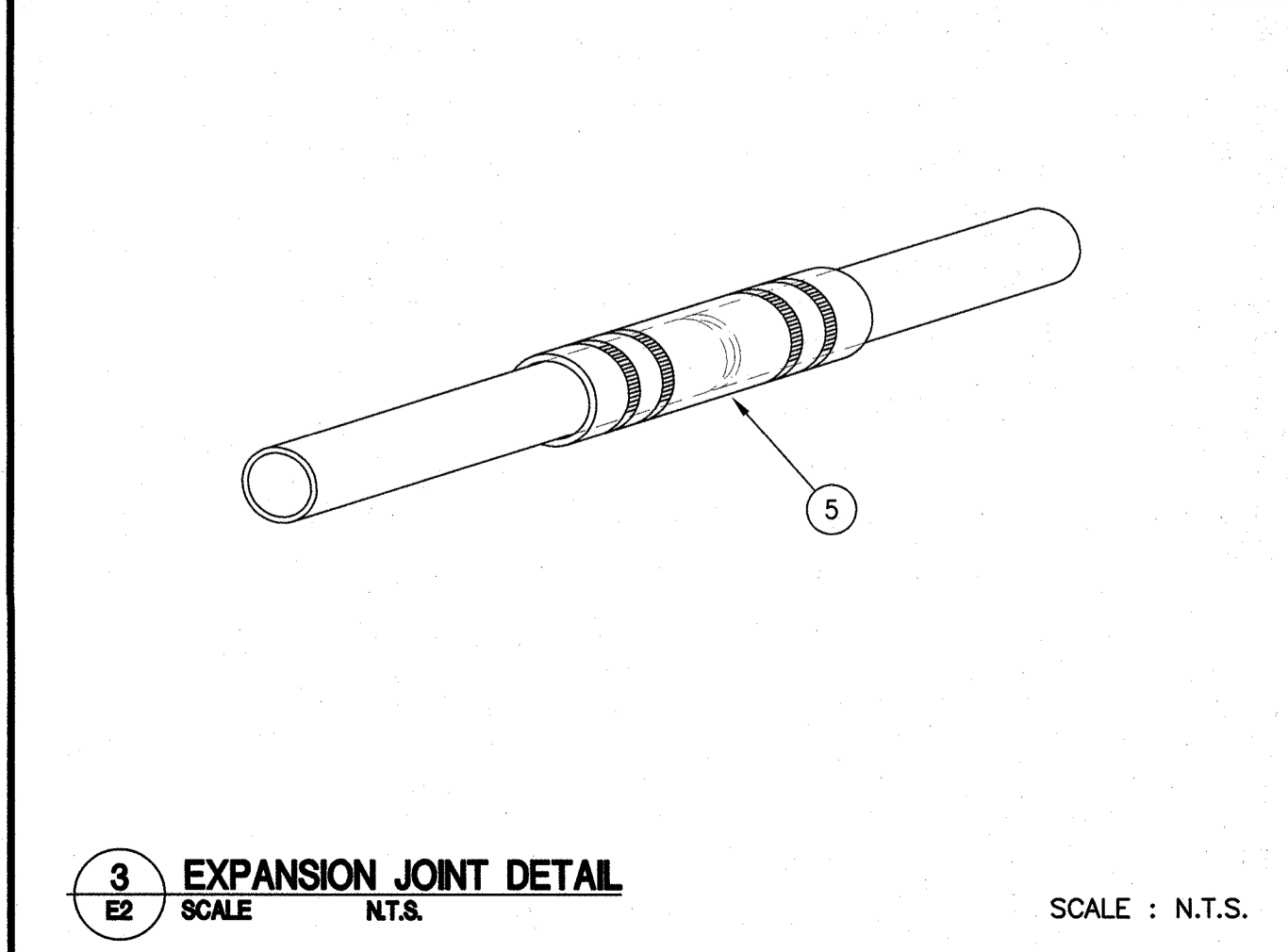
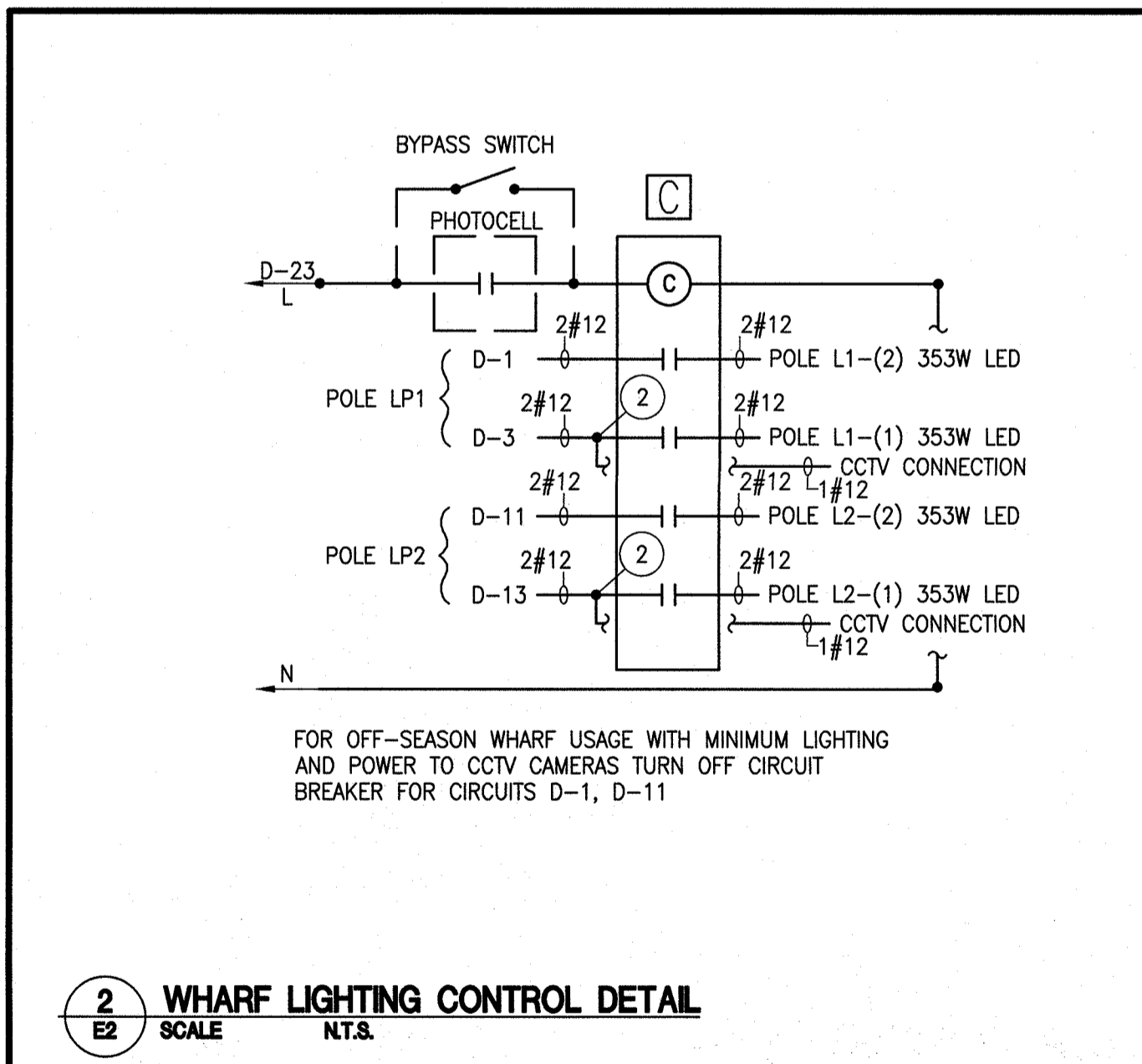
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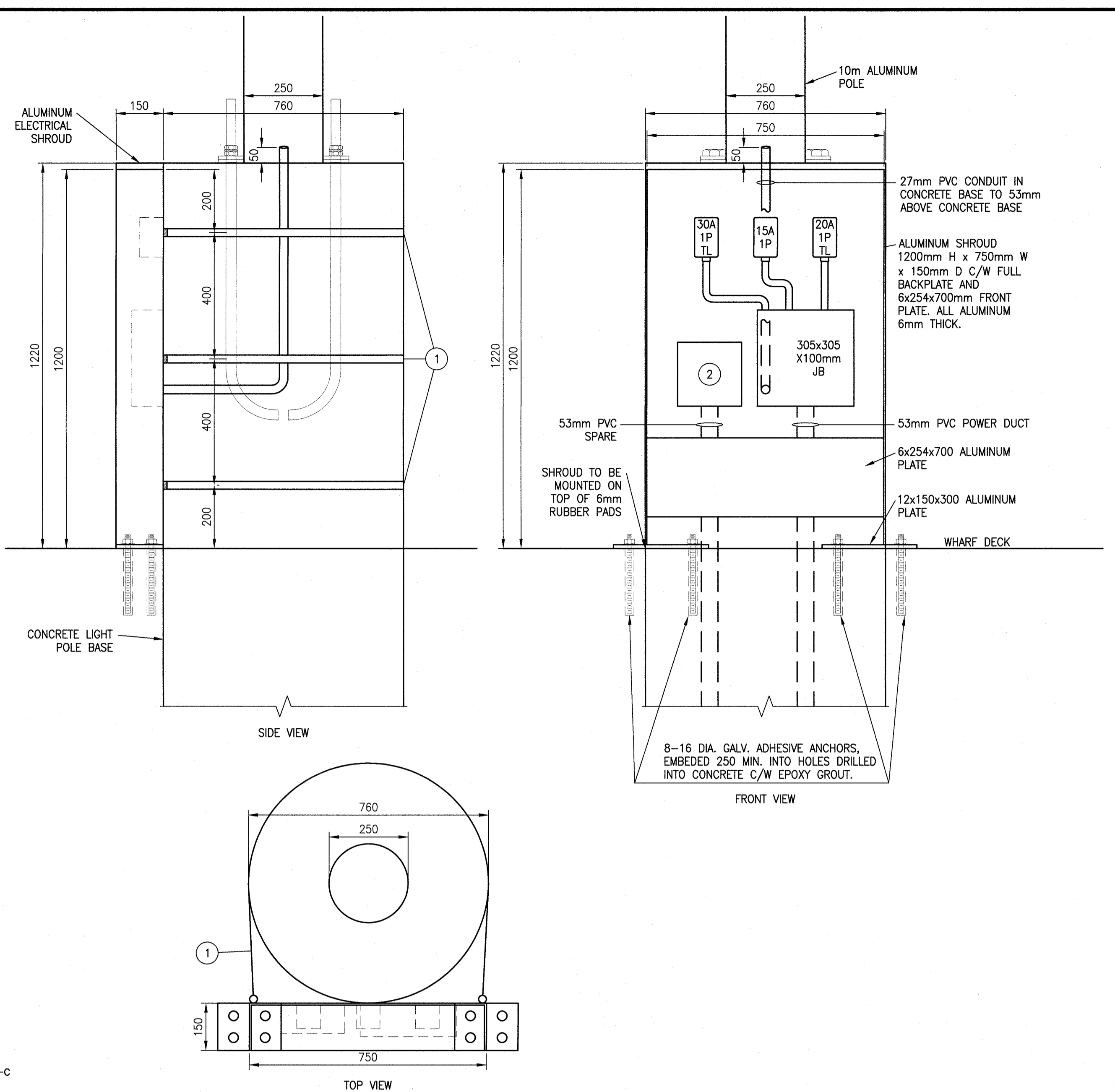
fsmith@rsel.nb.ca



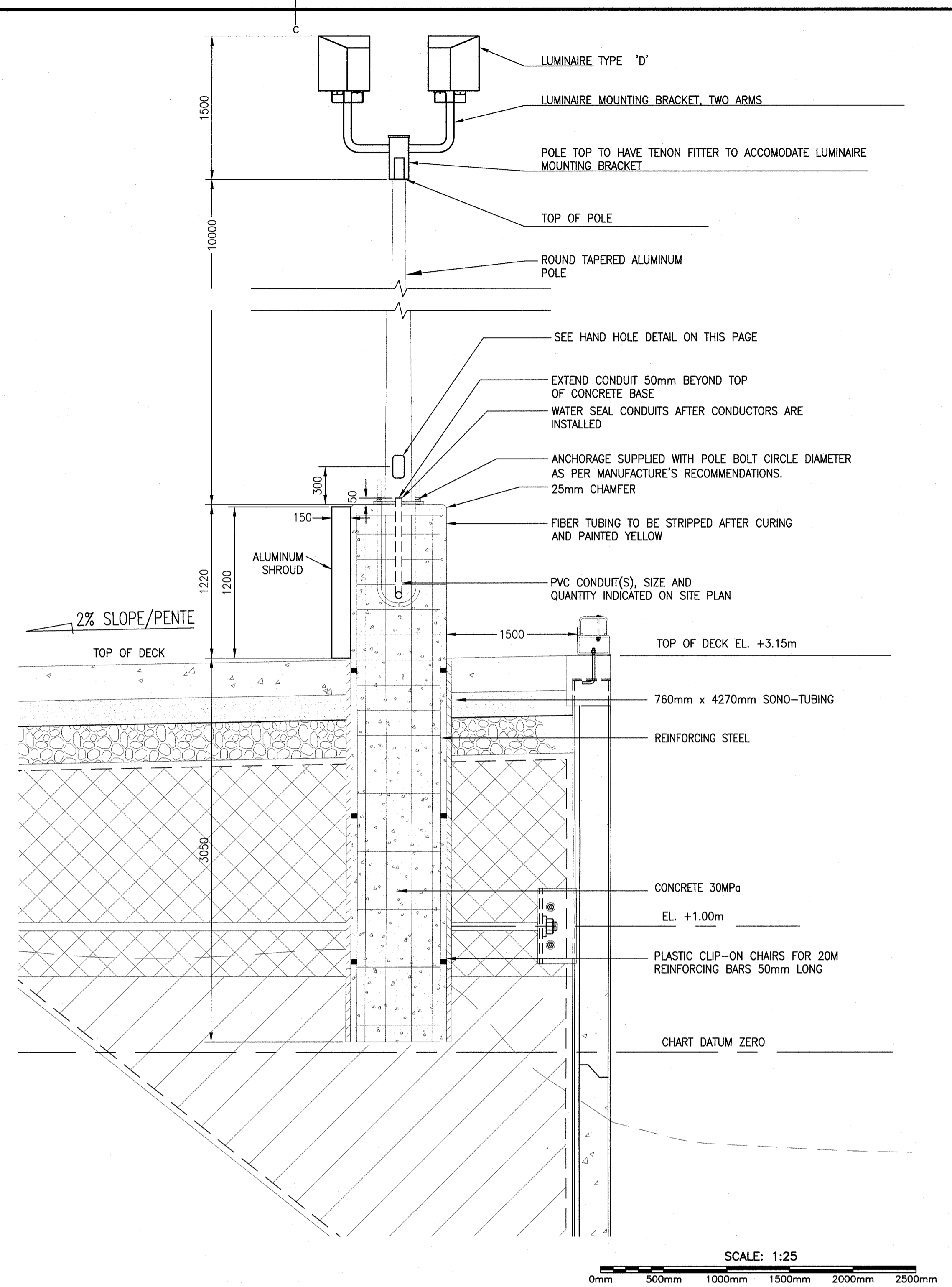
1 NEW ELECTRICAL LAYOUT
SCALE: 1:100

3 EXPANSION JOINT DETAIL
SCALE: N.T.S.

1	ISSUED FOR TENDER	2017 01.20
revisions		date
project	WHARF RECONSTRUCTION RECONSTRUCTION DU QUAI STRUCTURE 404 & 501 PETIT-CAP, NB COMTÉ DE WESTMORLAND COUNTY	
drawing	dessin	
ELECTRICAL NEW LAYOUTS & DETAILS		
designed	RALPH SMITH, P.ENG.	conçu
date	2016.09.16	
drawn	WILLIAM GOURLEY	dessiné
date	2016.09.16	
approved	RALPH SMITH, P.ENG.	approuvé
date	2016.09.16	
Tender	Soumission	
Project Manager	Administrateur de projets	
project number	no. du projet	
	721989	
drawing no.	no. du dessin	
	E2 of 6	



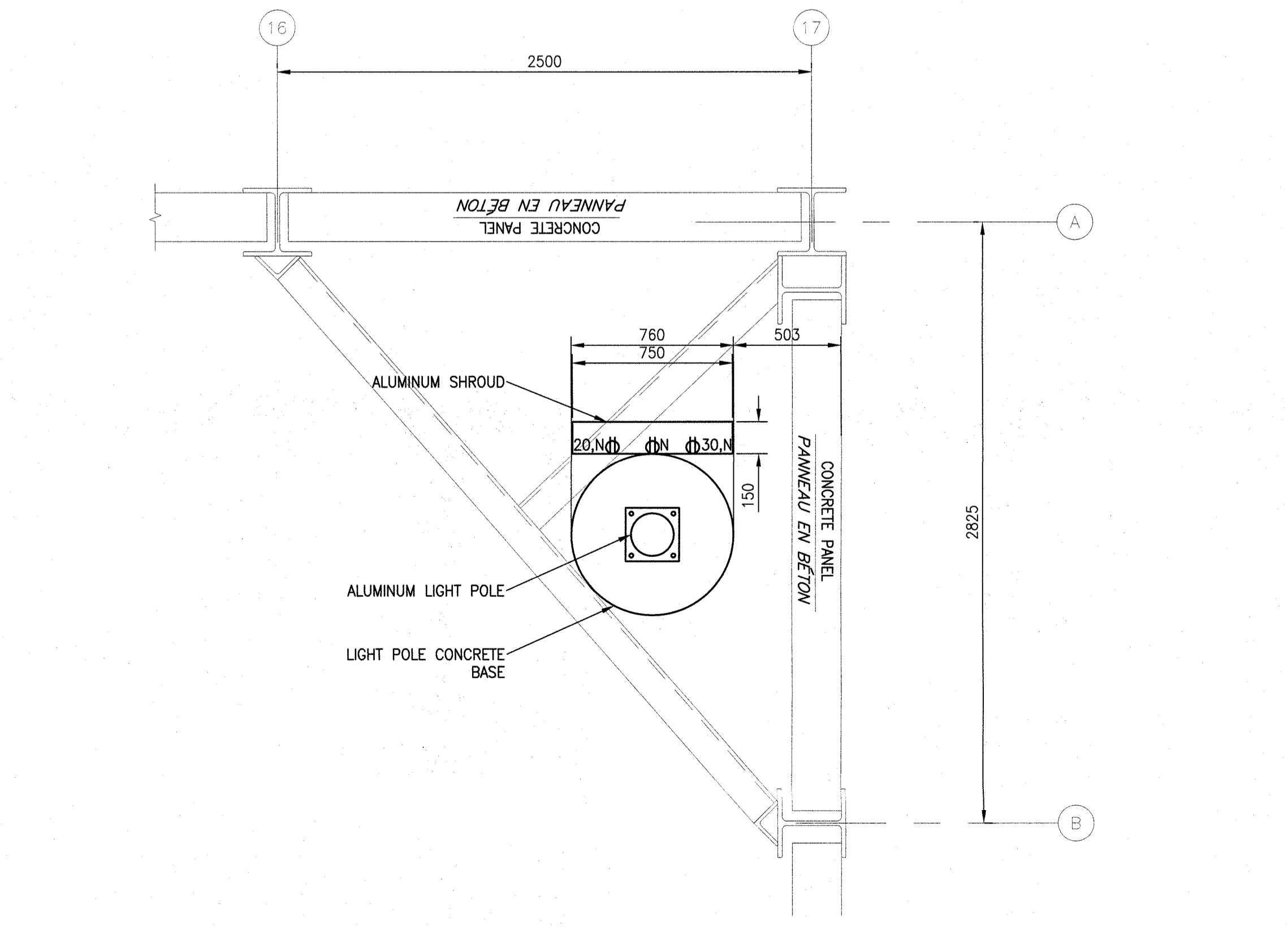
1 SHROUD DETAIL POLE LP1 & LP2
SCALE 1:10



3 TWO LIGHT FIXTURE 'D' ON ALUMINUM POLE ON CONCRETE BASE DETAIL
SCALE 1:25

DESCRIPTION		WATTAGE		#	BKR	CIRCUIT	BKR	#	WATTAGE		DESCRIPTION	
A	B	A	B	P	AMP		AMP	P	A	B		
		353		1	15	1 a	2	15	1	600	ELECTRICAL RM - RECEIPT	
			353	1	15	3 b	4	15	1	400	ELECTRICAL RM - TEL RECEIPT	
		1440		1	15	5 a	8	15	1	400	OFFICE/STORAGE - RECEIPT	
			1920	1	20	7 b	8	15	1	400	OFFICE/STORAGE - RECEIPT	
		2880		1	30	9 a	10	15	1	1000	ELECTRICAL RM - HEATER	
			353	1	15	11 b	12	15	1	1000	STORAGE RM - HEATER	
		353		1	15	13 a	14					
			1440	1	15	15 b	16					
		1920		1	20	17 a	18	50	2	4800	410KG - HOIST #2	
			2880	1	30	19 b	20			4800		
		240		1	15	21 a	22	30	2	2880	HOIST #2 - RECEIPT R6 30A, 240V, 1Ø	
			100	1	15	23 b	24	30	2	2880	HOIST #2 - 20A RECEIPT R7 30A, 240V, 1Ø	
				1	25	25 a	26	20	1	1920	HOIST #1 - RECEIPT R4 30A, 240V, 1Ø	
					27	b	28	30	2	2880	HOIST #1 - 20A RECEIPT R5 30A, 240V, 1Ø	
					29	a	30	20	1	1920		
					31	b	32	20	1			
					33	a	34					
					35	b	36					
		2880		2	60	37 a	38	100	2	5112	2 TON HOIST #1 - 8HP 42.6 FLA	
			2880			39 b	40			5112		
					41	a	42					
					43	b	44					
					45	a	46					
					47	b	48					
					49	a	50					
					51	b	52					
					53	a	54					
					55	b	56					
					57	a	58					
					59	b	60					
PHASE LOADS:		10066	9926							19592	19392	
TOTAL LOAD:		58976										
TOTAL PHASE LOADS		29658	29318									
+/- 5%		18723	20642									
CURRENT (A) @ 240V:		212A										

2 PANEL SCHEDULE
SCALE N.T.S.



4 LIGHT POLE AT CORNER BRACE DETAIL
SCALE 1:20

- NOTES**
- 25mm WIDE STAINLESS STEEL BANDING AROUND 760mm CONCRETE BASE WITH CONNECTION TO SHROUD IN 3 LOCATIONS WITH HEAVY DUTY ALUMINUM WELDED LOOPS TO FEED 25mm WIDE BAND THROUGH.
 - NEW 203x203x100mm PVC JUNCTION BOX FOR SPARE CONDUIT.



5 POLE HANDHOLE DETAIL
SCALE 1:100

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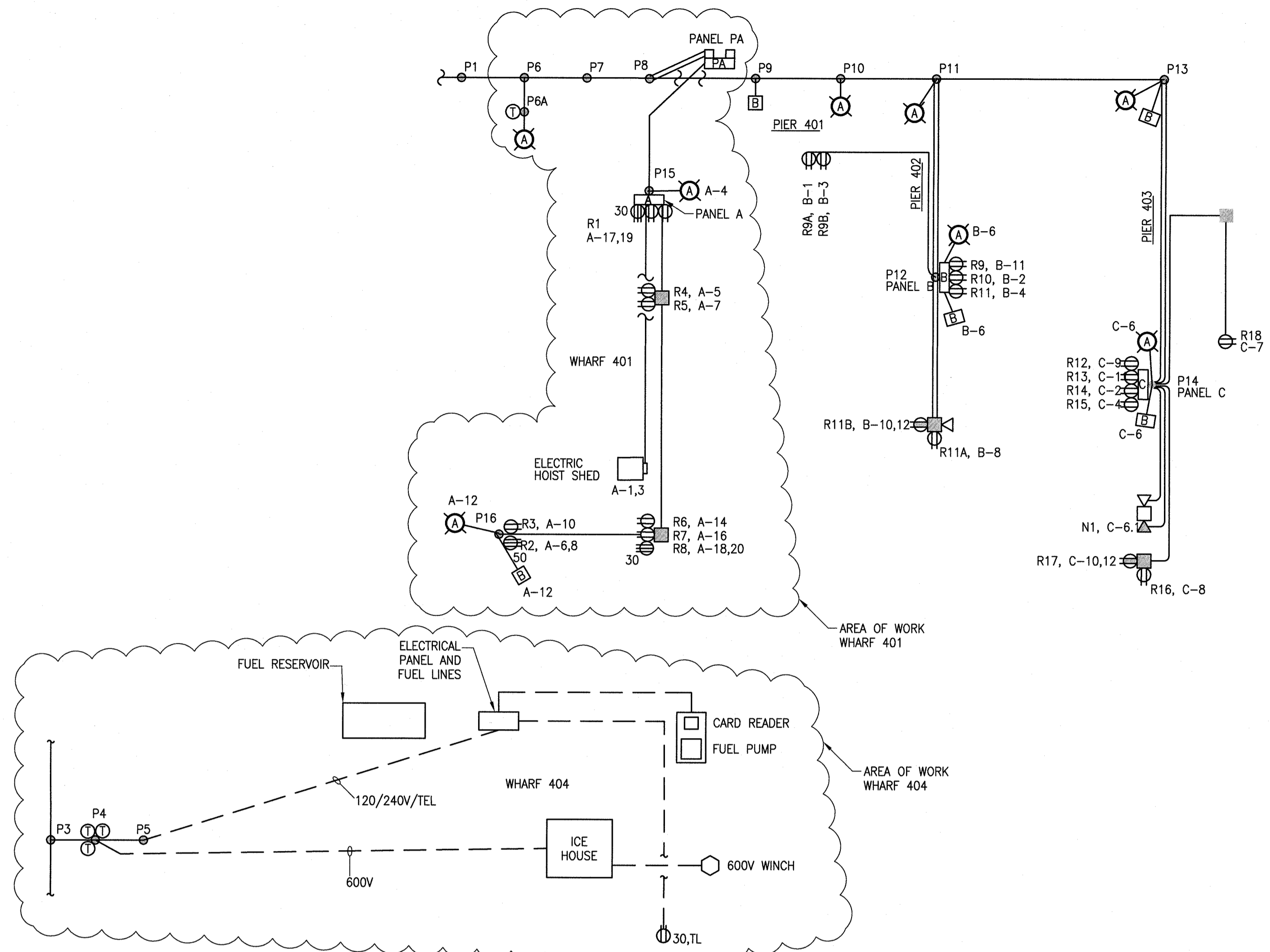
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1	ISSUED FOR TENDER	2017 01.20
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project	WHARF RECONSTRUCTION RECONSTRUCTION DU QUAI STRUCTURE 404 & 501 PETIT-CAP, NB COMITÉ DE WESTMORLAND COUNTY	
drawing		dessin
designed	RALPH SMITH, P.ENG.	conçu
date	2016.09.16	
drawn	WILLIAM GOURLEY	dessiné
date	2016.09.16	
approved	RALPH SMITH, P.ENG.	approuvé
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project number	721989	
drawing no.	E3 of 6	



1 EXISTING SINGLE LINE POWER RISER DIAGRAM
SCALE: N.T.S.

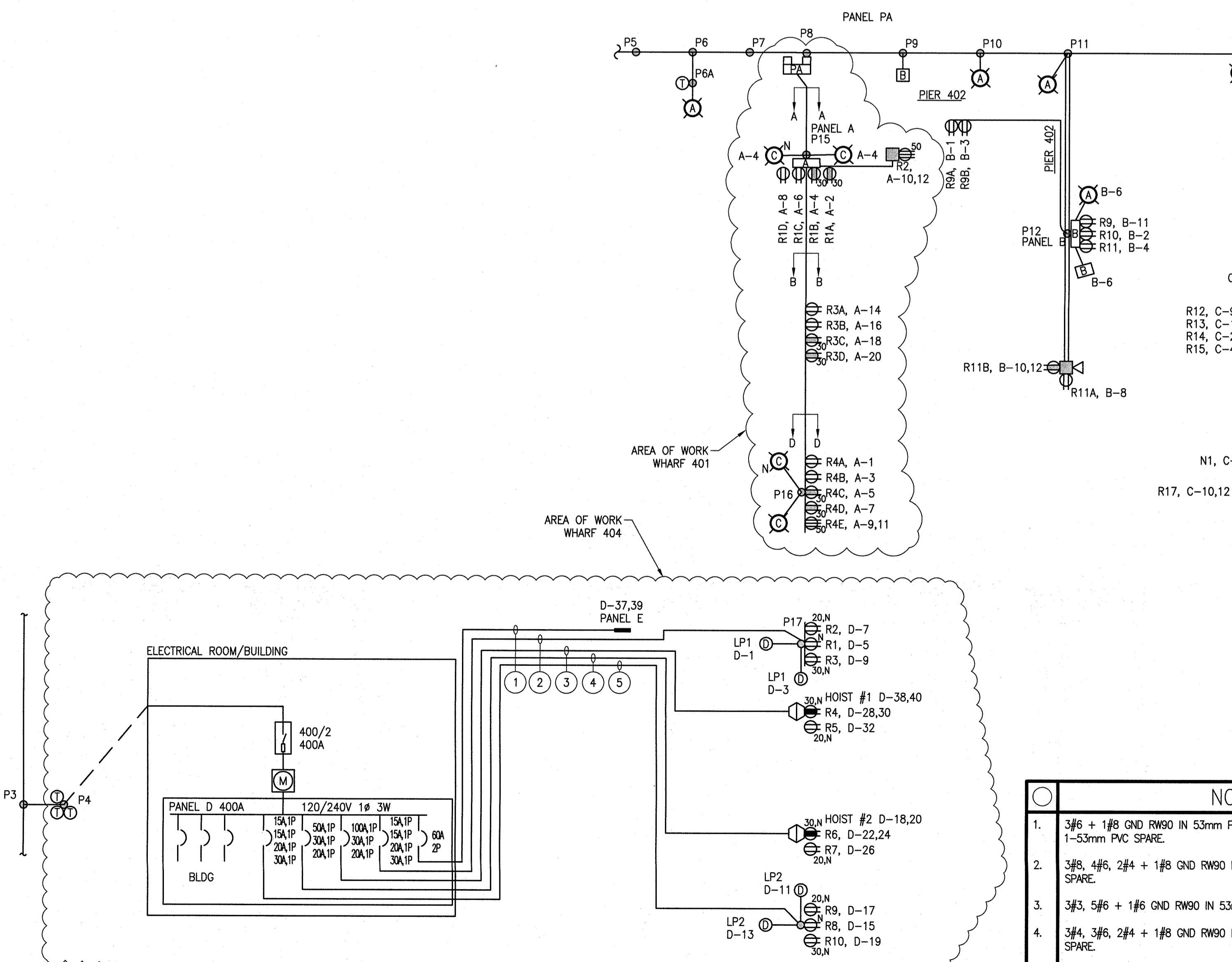
SCALE : N.T.S.

SERVICE CALCULATION (CEC RULE 78) (1628)

ITEM #	DESCRIPTION	LOAD	WATTS	TOTAL LOAD WATTS
1 DETERMINE LOADS				
1	2 TON HOIST 240V, 1Ø, 4W, 8HP 42.6FLA 100A CB - 4#6 WIRE		10,224	= 10,224
1	410KG HOIST - 50A RECEPT 240V 240V X 40A		9,600	= 9,600
2	HOIST RECEPTACLES - 30A, 240V 240V X 24A		5,760	= 11,520
2	HOIST RECEPTACLES - 20A, 120V 120V X 16A		1,920	= 3,840
2	LIGHT POLES 30A, 120V RECEPTACLE 20A, 120V RECEPTACLE 15A, 120V RECEPTACLE	120V X 24A 120V X 16A 120V X 12A	2,880 1,920 1,440	= 5,760 = 3,840 = 2,880
1	GAS PUMPS - 30A 2 LED LIGHTS	240V X 24A	706	= 1,416
1	BUILDING LTS. HEAT. RECEPT		5,760	= 5,760
			2,500	= 2,500
				TOTAL CONNECTED LOAD = 57,340 W
2 FEEDER LOADS				
1	4 HIGHEST RATED LOADS AT 100% .1 2 TON HOIST .2 410KG HOIST .3 2 HOIST RECEPTS	1 X 240V X 42.6A X 100% 1 X 240V X 40A X 100% 2 X 240V X 24A X 100%	10,224 9,600 11,520	= 31,344 W
2	NEXT 4 HIGHEST RATED LOADS AT 65% .1 GAS PUMPS .2 30A, 120V RECEPT .3 BUILDING LOAD	1 X 240V X 24A X 65% 2 X 120V X 24A X 65% 1 X 2,500W X 65%	3,744 3,744 1,625	= 9,113 W
3	NEXT 5 HIGHEST RATED LOADS AT 50% .1 4-20A, 120V RECEPT .2 1-15A, 120V RECEPT	4 X 120V X 16A X 50% 1 X 120V X 12A X 50%	3,840 720	= 4,560 W
4	NEXT 16 HIGHEST RATED LOADS AT 25% .1 1-15A, 120V RECEPT	1 X 120V X 12A X 25%		= 360 W
				TOTAL DEMAND LOAD = 46,793 W
3	ADDITIONAL 25% SPARE CAPACITY FOR FUTURE LOADS 46,793W X 0.25			= 11,698 W
				TOTAL = 58,491 W
4	DETERMINE SERVICE SIZE OF PANEL 'A' 58,491W/240V = 243.7 X 1.25 = 304A			
	SERVICE FOR PANEL 'A' TO BE 400A, 120/240V, 1Ø, 3W			
	1 RUN OF 3#500MCM + 1#3 GND RW90 IN 103mm PVC UG			

3 SERVICE CALCULATION
SCALE: N.T.S.

SCALE : N.T.S.



2 NEW SINGLE LINE POWER RISER DIAGRAM
SCALE: N.T.S.

SCALE : N.T.S.

4 VOLTAGE DROP PANEL 'D'
SCALE: N.T.S.

SCALE : N.T.S.

- NOTES
- 3#6 + 1#6 GND RW90 IN 53mm PVC; 3-CAT.6 IN 53mm PVC; AND 1-53mm PVC SPARE.
 - 3#8, 4#6, 2#4 + 1#6 GND RW90 IN 53mm PVC; AND 1-53mm PVC SPARE.
 - 3#3, 5#6 + 1#6 GND RW90 IN 53mm PVC; AND 53mm PVC SPARE.
 - 3#4, 3#6, 2#4 + 1#6 GND RW90 IN 53mm PVC; AND 1-53mm PVC SPARE.
 - 3#8, 4#4, 2#3 + 1#6 GND RW90 IN 53mm PVC; AND 1-53mm PVC SPARE.

PANEL 'D' - VOLTAGE DROP/WIRE SIZE CALCULATIONS

RECEPTACLE	RATING AMPS	VOLTS	CIRCUIT	RATED CURRENT	DISTANCE METERS	VOLTAGE DROP	WIRE SIZE
RECEPT R1	15	120	D-3	12	77	< 3%	2#6
RECEPT R2	20	120	D-5	16	77	< 3%	2#6
RECEPT R3	30	120	D-7	24	77	< 3%	2#4
RECEPT R4	30	240	D-28,30	24	79	< 3%	3#6
RECEPT R5	20	120	D-32	16	79	< 3%	2#6
RECEPT R6	30	240	D-22,24	24	93	< 3%	3#6
RECEPT R7	20	120	D-26	16	93	< 3%	2#4
RECEPT R8	15	120	D-11	12	100	< 3%	2#4
RECEPT R9	20	120	D-13	16	100	< 3%	2#4
RECEPT R10	30	120	D-15	24	100	< 3%	2#3
LIGHT POLE LP1	15	120	D-1	3	87	< 3%	2#12
LIGHT POLE LP1	15	120	D-3	3	87	< 3%	2#12
LIGHT POLE LP2	15	120	D-11	3	100	< 3%	2#12
LIGHT POLE LP2	15	120	D-13	3	100	< 3%	2#12
GAS PUMP - PANEL 'E'	60	240	D-37,39	24	60	< 2%	3#6
HOIST #1 - 2 TON 8HP	42.6 FLA	240	D-38,40	42.6	79	< 3%	3#3
HOIST #2 - 410KG	50	240	D-18,20	40	93	< 3%	3#4

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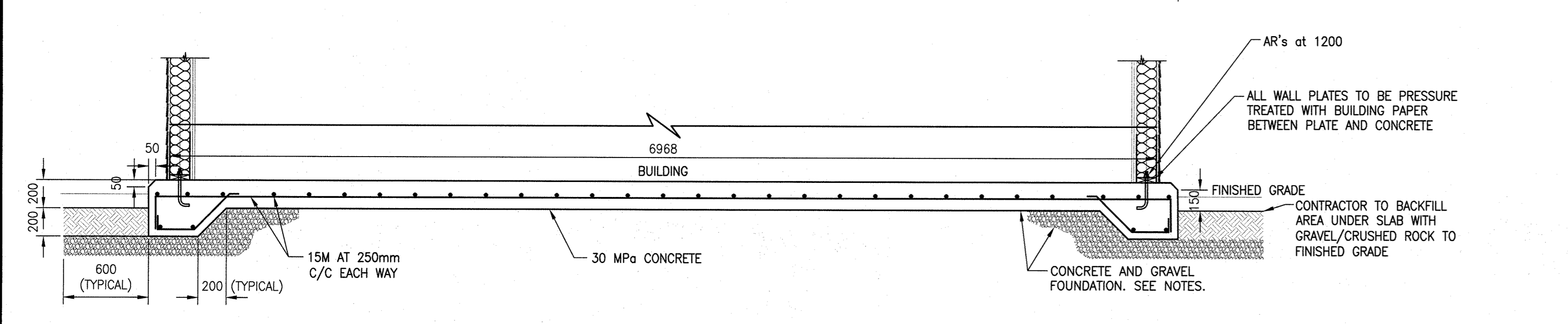
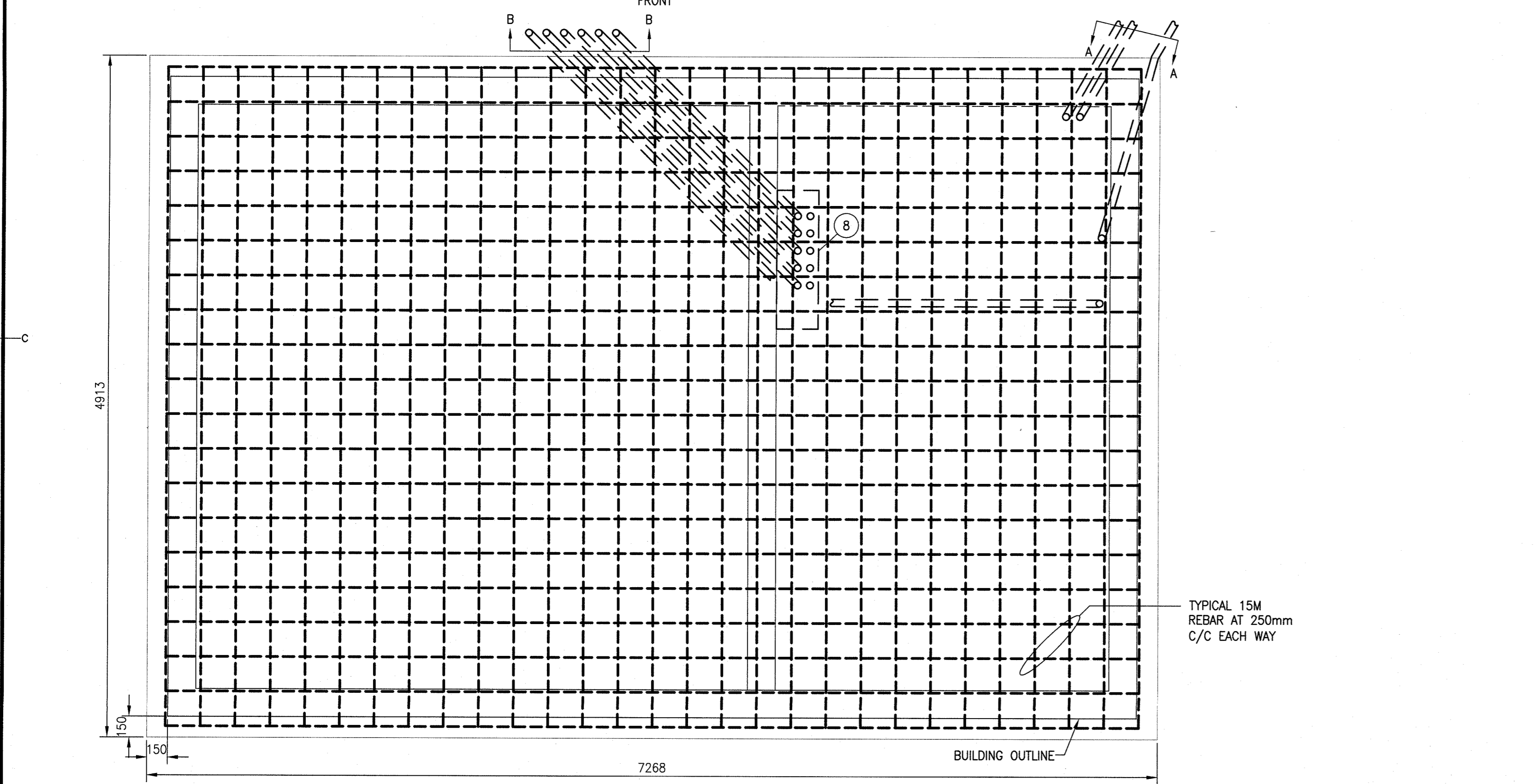
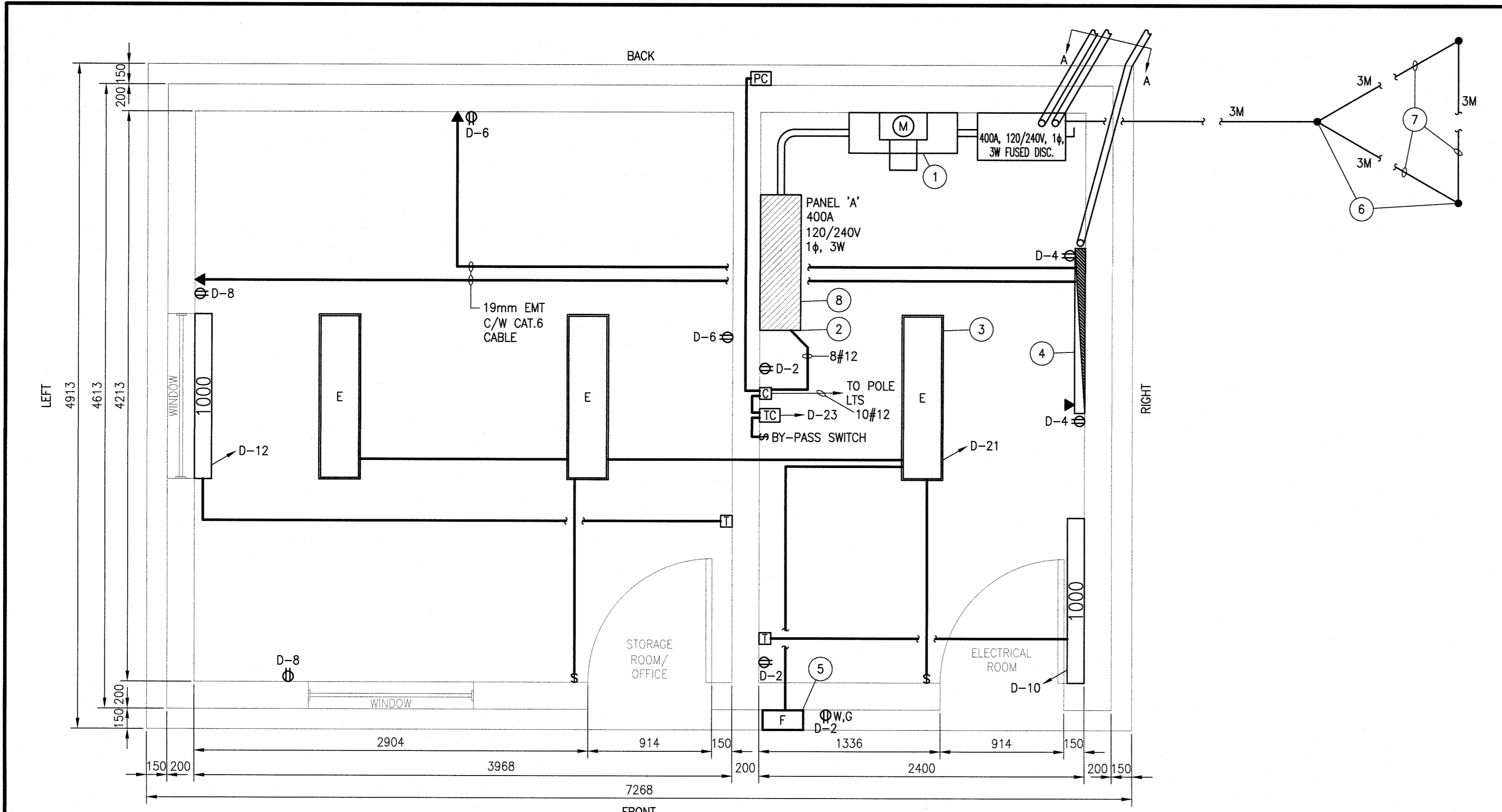
project
**WHARF RECONSTRUCTION
RECONSTRUCTION DU QUAI**
STRUCTURE 404 & 501
PETIT-CAP, NB
COMTÉ DE WESTMORLAND COUNTY

drawing
desin
**ELECTRICAL
POWER RISER
& SERVICE CALCULATIONS**

designed RALPH SMITH, P.ENG. conçu
date 2016.09.16
drawn WILLIAM GOURLEY dessiné
date 2016.09.16
approved RALPH SMITH, P.ENG. approuvé
date 2016.09.16

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Project Manager Administrateur de projets
project number no. du projet
721989

drawing no. no. du dessin
E4 of 6



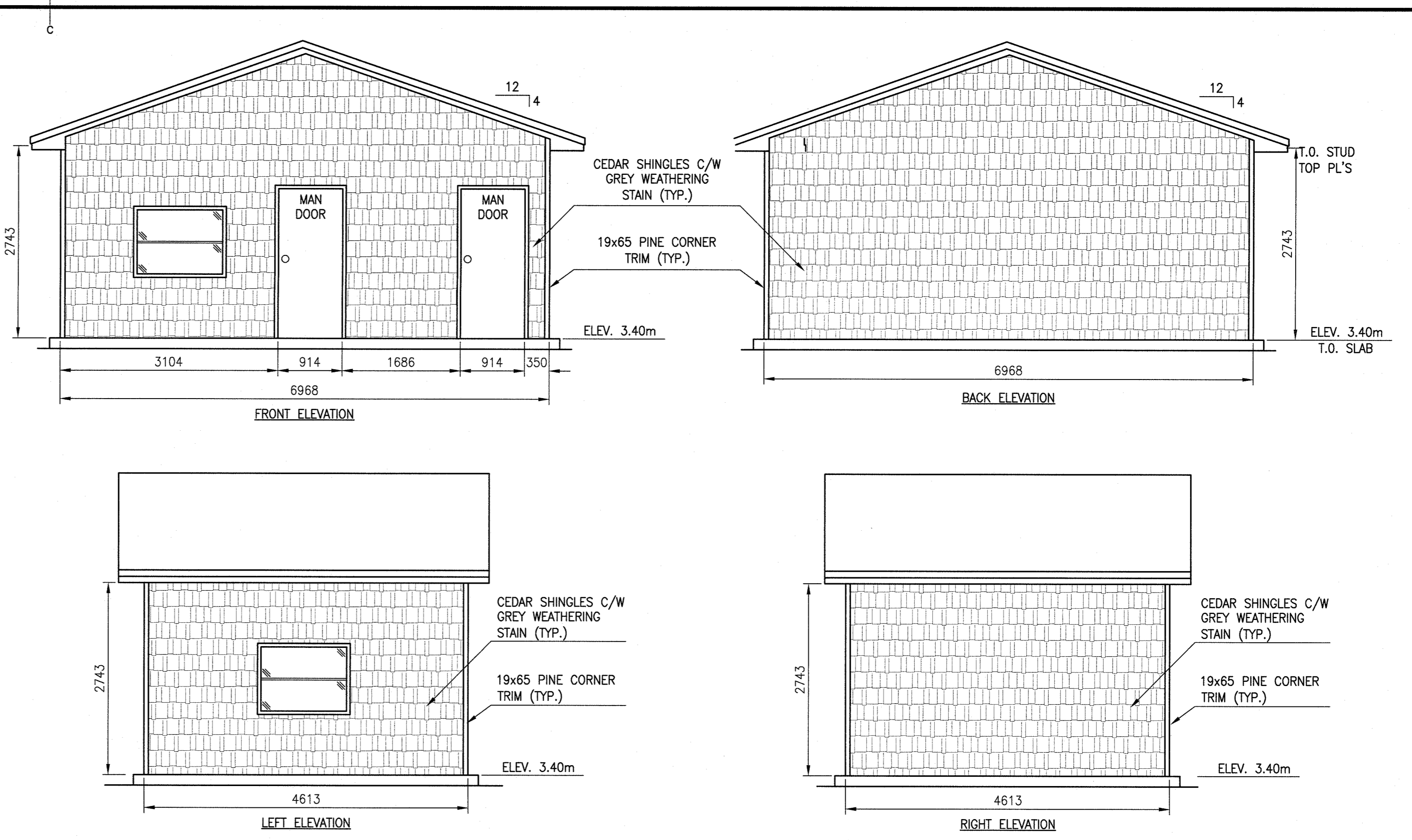
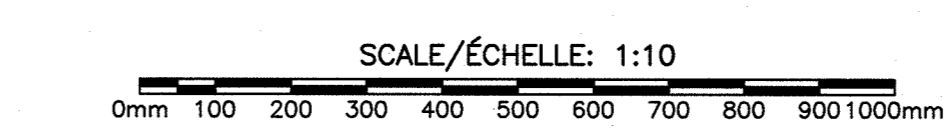
1. CONCRETE STRENGTH REQUIREMENTS AND CONSTRUCTION IN ACCORDANCE WITH CAN3-A23.1-M90. CLASS F-2 EXPOSURE REQUIRING A MINIMUM 28 DAY COMPRESSION STRENGTH 25MPa (3600psi), WITH AN AIR ENTRAINMENT OF 5-7%.
2. CONCRETE COVER FOR REINFORCING STEEL TO BE: FOOTINGS - 75mm; SLAB - 50mm
3. REINFORCING STEEL SHALL CONFORM TO CSA-G3012-N1977 WITH A MINIMUM YIELD STRENGTH OF 300MPa (40,000psi).
4. 600mm MINIMUM, CLASS B GRAVEL FILL UNDER ALL SLABS TO BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR DENSITY. EXCAVATE ORGANIC AND UNSUITABLE MATERIAL AS DIRECTED BY FIELD ENGINEER.
5. MINIMUM LAP FOR REINFORCING STEEL TO BE 30 BAR DIAMETERS.

1 NEW ELECTRICAL BUILDING AND CONCRETE SLAB DETAIL
SCALE 1:25

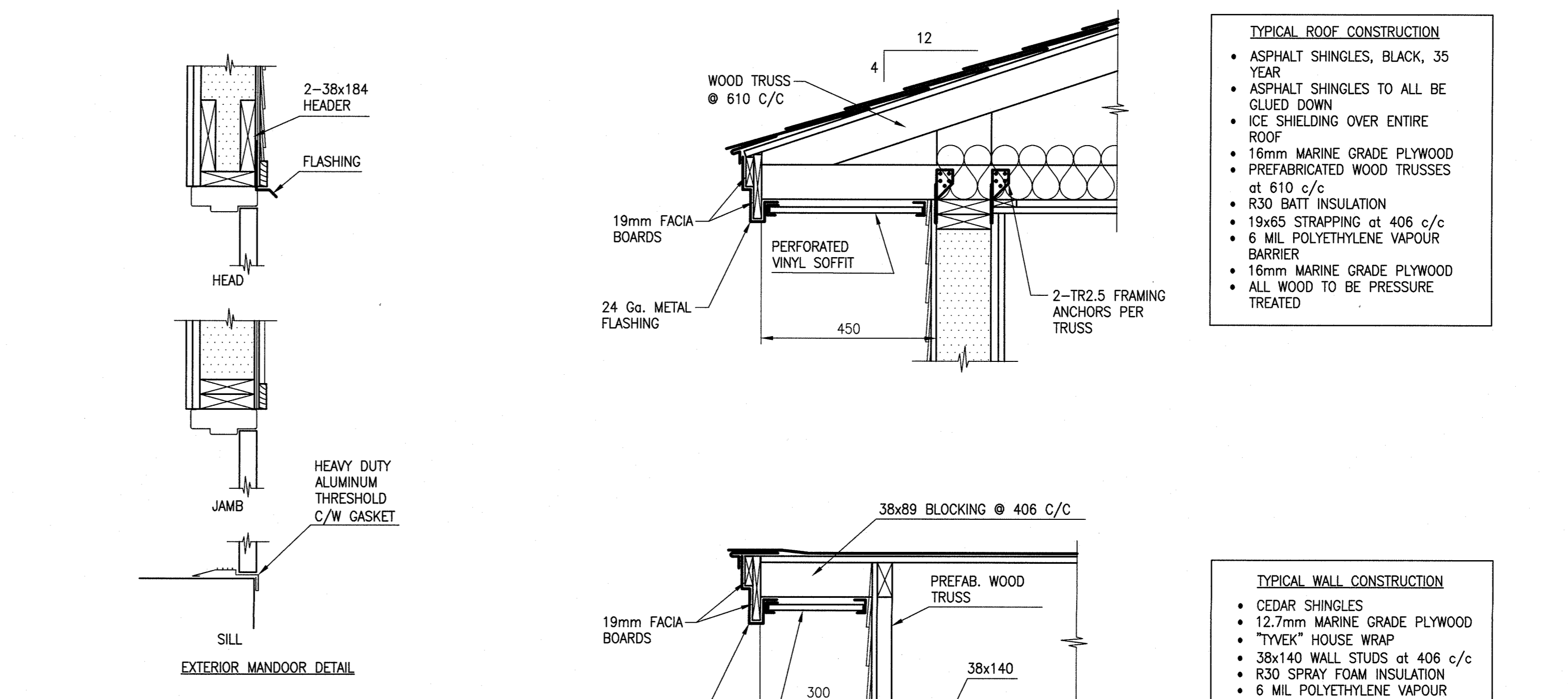


- NOTES**
1. UTILITY METERING CABINET FOR 400A, 120/240V, 1φ.
 2. PANEL 'A' 400A, 120/240V, 1φ, 3W C/W 84 CIRCUITS.
 3. TYPE 'E' LIGHT FIXTURE.
 4. 19mm x 1220mm x 610mm PLYWOOD BACKBOARD PAINTED FIRE RETARDANT GREY.
 5. TYPE 'F' WALL PACK C/W PHOTOCELL.
 6. 19mm x 3M LONG GROUND ROD.
 7. #3 BCW GROUND WIRE.
 8. INSTALL PANEL D BOTTOM (1524mm HIGH) 450mm AF. AND CUT OFF PVC CONDUITS 53mm ABOVE FLOOR. CUT OUT BOTTOM OF PANEL D AND INSTALL 3 SIDED ALUMINUM COVER BETWEEN FLOOR AND PANEL D C/W FLANGES TO ATTACH COVER TO WALL WITH 90° FLANGES AT FLOOR AND OVERLAP PANEL.

4 NEW ELECTRICAL BUILDING DETAILS
SCALE 1:10



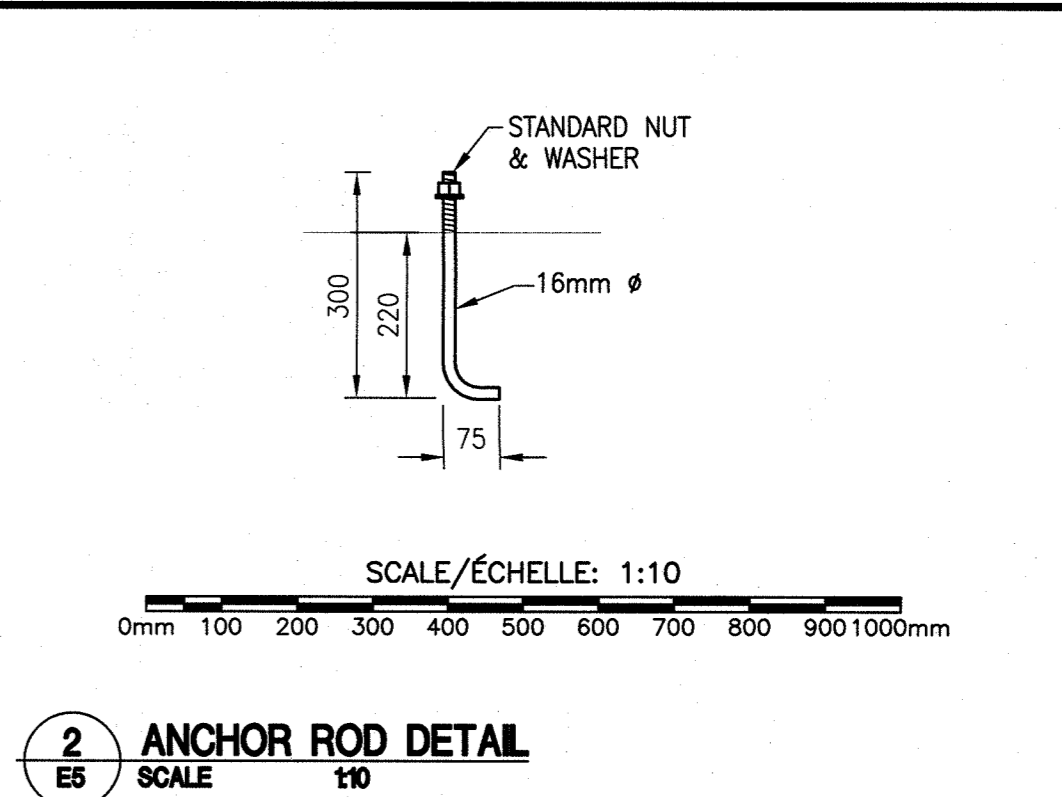
3 NEW ELECTRICAL BUILDING ELEVATIONS
SCALE 1:50



- MANDOOR & WINDOW NOTES:**
- MANDOOR FRAMES TO BE PRESSED STEEL 14 GA. AS MANUFACTURED BY APEX MACHINE WORKS OR APPROVED EQUAL WITH 3-ANCHORS PER JAMB. PREPARE, PRIME AND PAINT DOOR AND FRAME AS PER MANUFACTURER'S RECOMMENDATIONS C/W COMMERCIAL GRADE EXTERIOR PRIMER AND GREY PAINT.
 - FILL MANDOOR FRAMES WITH LOOSE INSULATION.
 - MANDOORS TO BE HOLLOW METAL 16 GA. WITH VERTICAL STEEL STIFFENER AT 150mm c/c AND TO HAVE RIGID INSULATED CORE.
 - MANDOOR AND FRAME TO BE GALVANIZED STEEL BY APEX INDUSTRIES. ALL HARDWARE TO BE STAINLESS STEEL.
 - EDGE SEAMS TO HAVE EXTRA TACK WELDING.
 - ALL DOORS TO HAVE 1-1/2 PR. H.D. HINGES.
 - LOCKSET TO BE MORTISE SERIES 7 (7700 LINE).
 - PROVIDE GALVANIZED METAL THRESHOLD, FULL WIDTH OF DOOR OPENING.
 - DOOR CLOSER TO BE SARGENT 1431/351.
 - DOOR FRAMES TO HAVE WEATHERSTRIPPING ON TOP & SIDES.
 - ALL WINDOWS TO BE DOUBLE HUNG VERTICAL SLIDERS C/W SCREENS.

- TYPICAL ROOF CONSTRUCTION**
- ASPHALT SHINGLES, BLACK, 35 YEAR
 - ASPHALT SHINGLES TO ALL BE GLUED DOWN
 - ICE SHIELDING OVER ENTIRE ROOF
 - 16mm MARINE GRADE PLYWOOD
 - PREFABRICATED WOOD TRUSSES at 610 c/c
 - R30 BATT INSULATION
 - 19x65 STRAPPING at 406 c/c
 - 6 MIL. POLYETHYLENE VAPOUR BARRIER
 - 16mm MARINE GRADE PLYWOOD
 - ALL WOOD TO BE PRESSURE TREATED

- TYPICAL WALL CONSTRUCTION**
- CEDAR SHINGLES
 - 12.7mm MARINE GRADE PLYWOOD
 - "TYVEK" HOUSE WRAP
 - 38x140 WALL STUDS at 406 c/c
 - R30 SPRAY FOAM INSULATION
 - 6 MIL. POLYETHYLENE VAPOUR BARRIER
 - 19mm MARINE GRADE PLYWOOD
 - SILL GASKET
 - ALL WOOD TO BE PRESSURE TREATED
 - INTERIOR WALL TO BE 38x140 WALL STUDS at 406 c/c W/ MARINE GRADE PLYWOOD BOTH SIDES



2 ANCHOR ROD DETAIL
SCALE 1:10



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electrical consultant

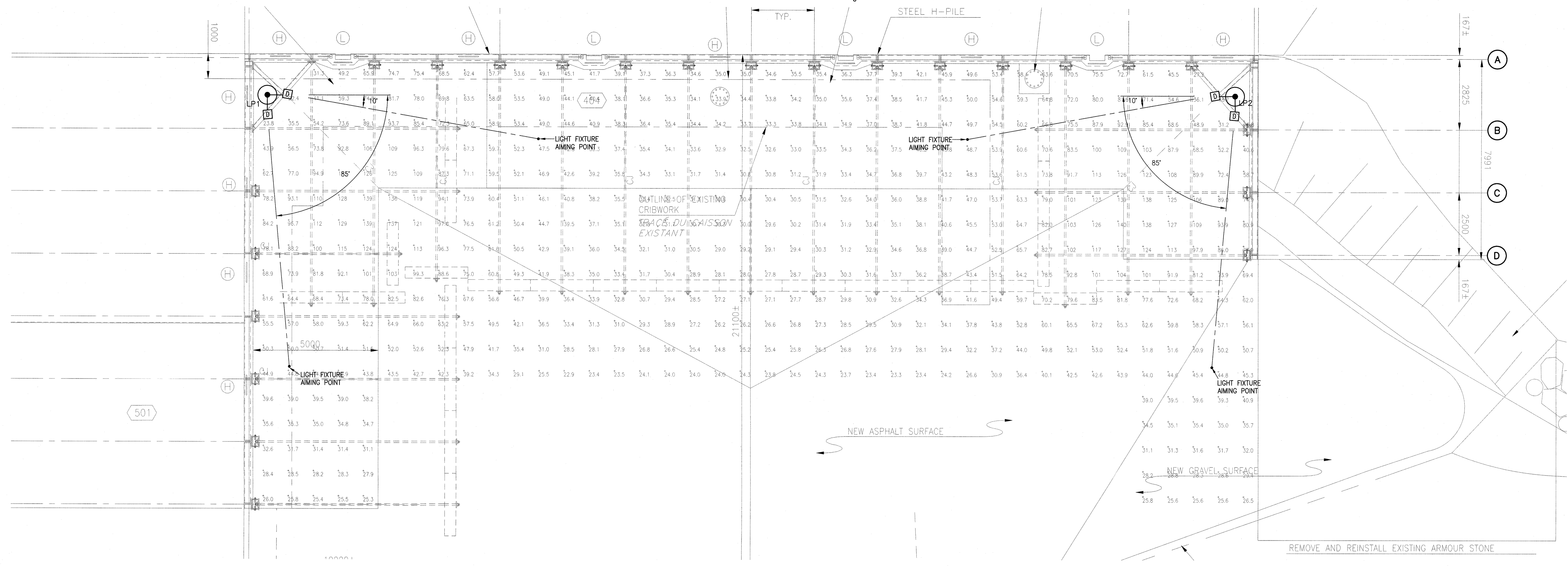
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project		projct
WHARF RECONSTRUCTION		
RECONSTRUCTION DU QUAI		
STRUCTURE 404 & 501		
PETIT-CAP, NB		
COMTE DE WESTMORLAND COUNTY		
drawing		desain
ELECTRICAL BUILDING LAYOUTS & DETAILS		
designed	RALPH SMITH, P.ENG.	conçu
date	2016.09.16	
drawn	WILLIAM GOURLEY	desiné
date	2016.09.16	
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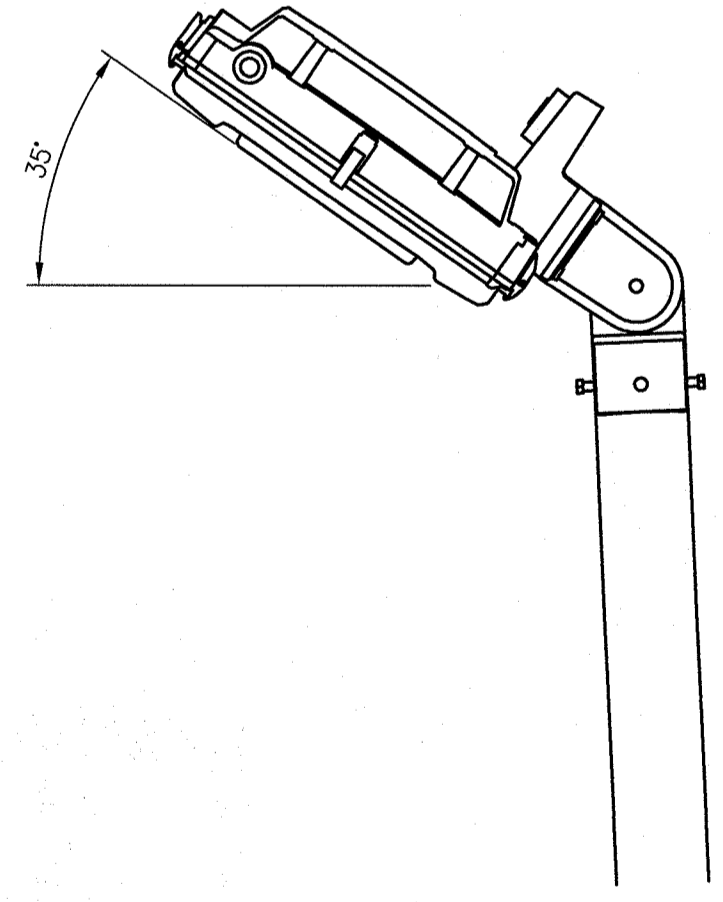


1 LIGHTING LAYOUT & AIMING
SCALE 1/76

CALCULATION POINTS	DESIGN ILLUMINATION	FIXTURE	WATTAGE	TOTAL LFP	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
WHARF TOTAL	50 LUX	HOLDFRANE PLED 9 4K 10-45	354	0.5	LUX	53.03	140	18.7	2.84	7.5

2 CALCULATION SUMMARY
SCALE N.T.S.

3 LIGHT FIXTURE TYPE 'D' AIMING DETAIL
SCALE N.T.S.



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project

WHARF RECONSTRUCTION / RECONSTRUCTION DU QUIAI
STRUCTURE 404 & 501
PETIT-CAP, NB
COMTÉ DE WESTMORLAND COUNTY

drawing dessin

ILLUMINATIONS CALCULATIONS & LIGHT FIXTURE AIMING

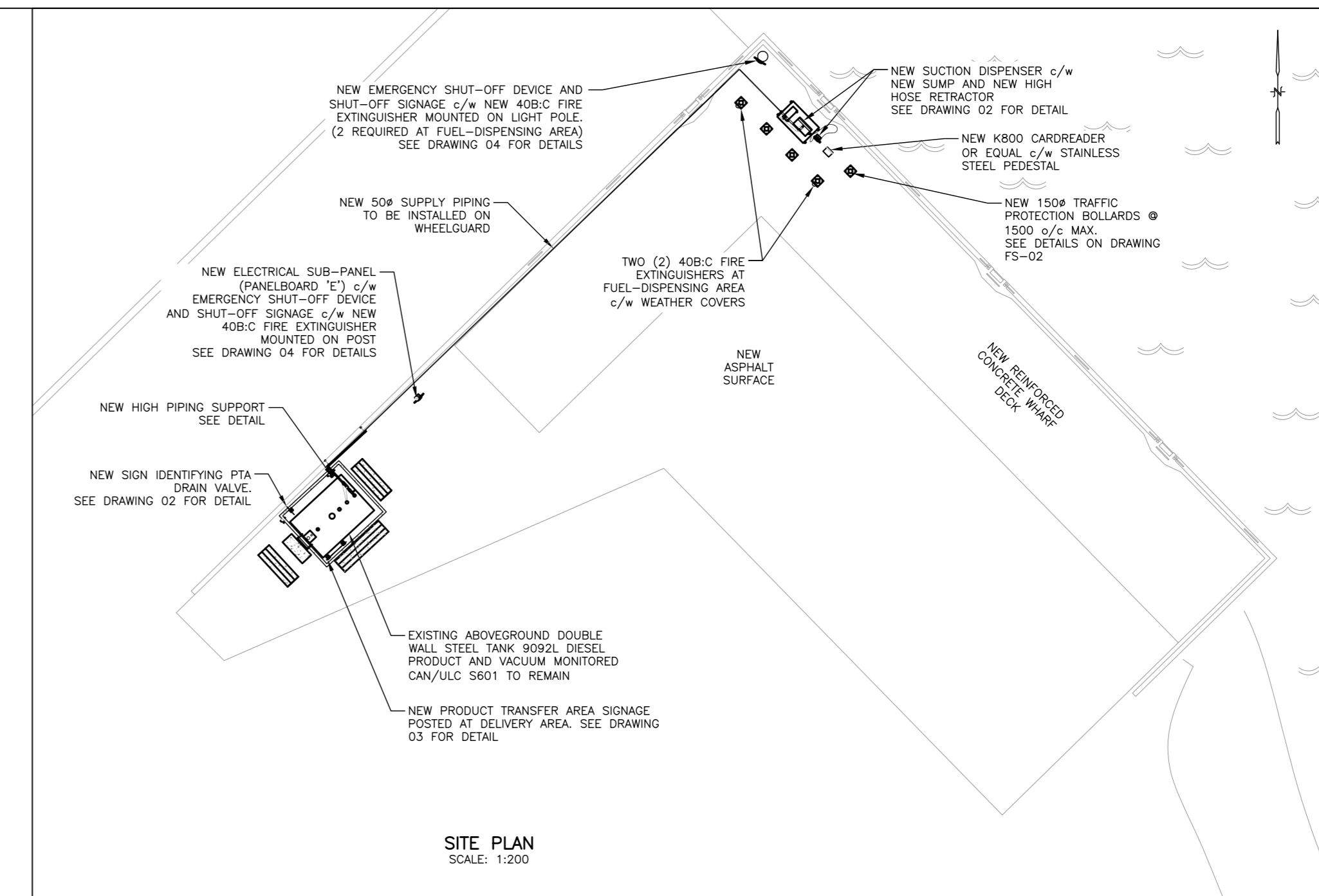
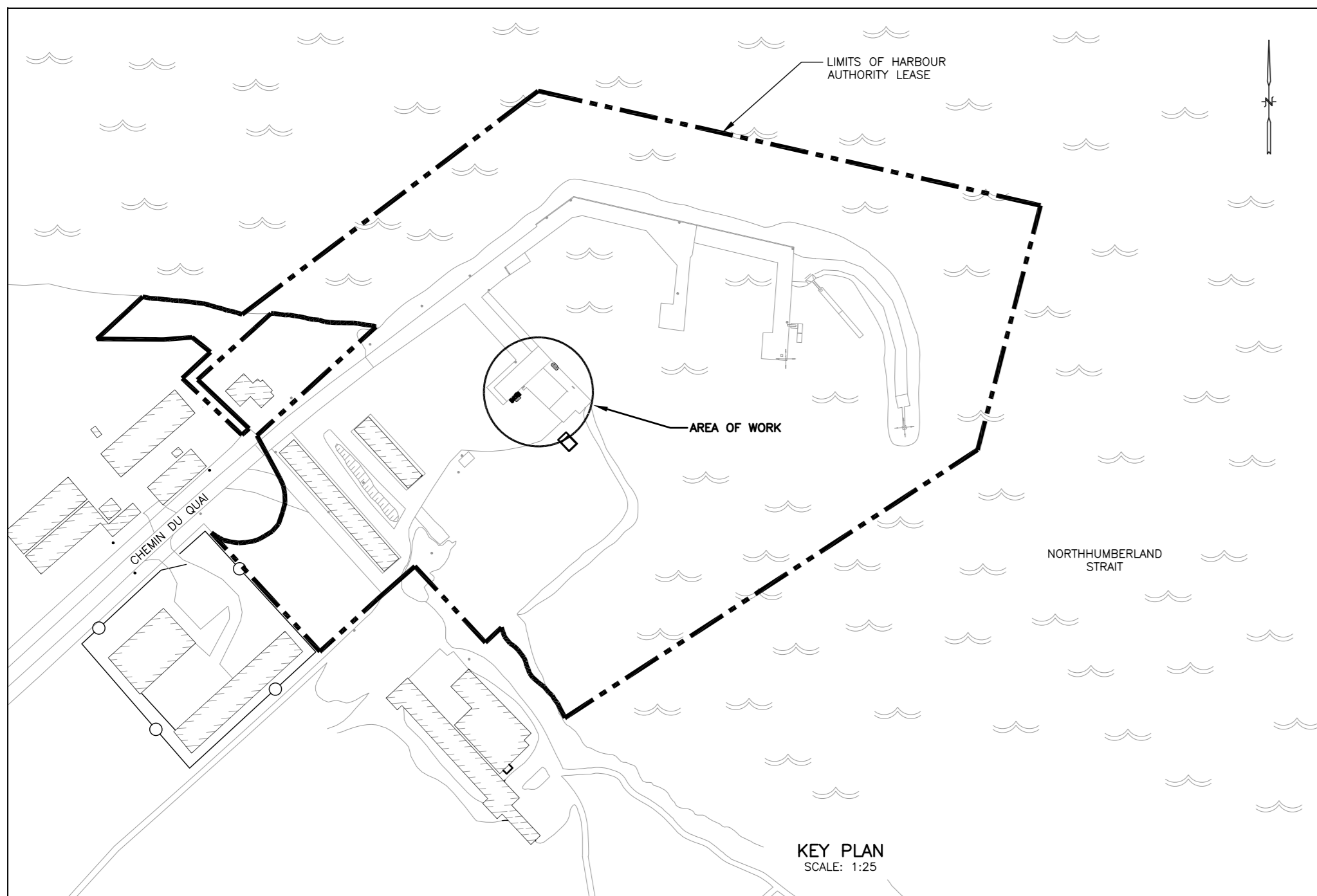
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Project Manager Administrateur de projets
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721989

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E6 of 6

E-DRW/GDD-E: 543710 Version 1 1626



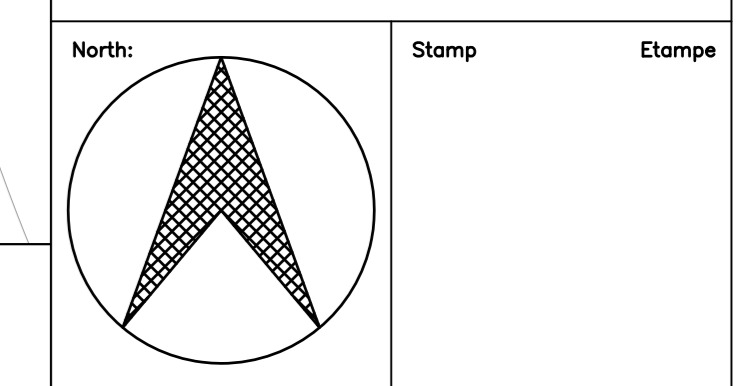
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Canada / Canada
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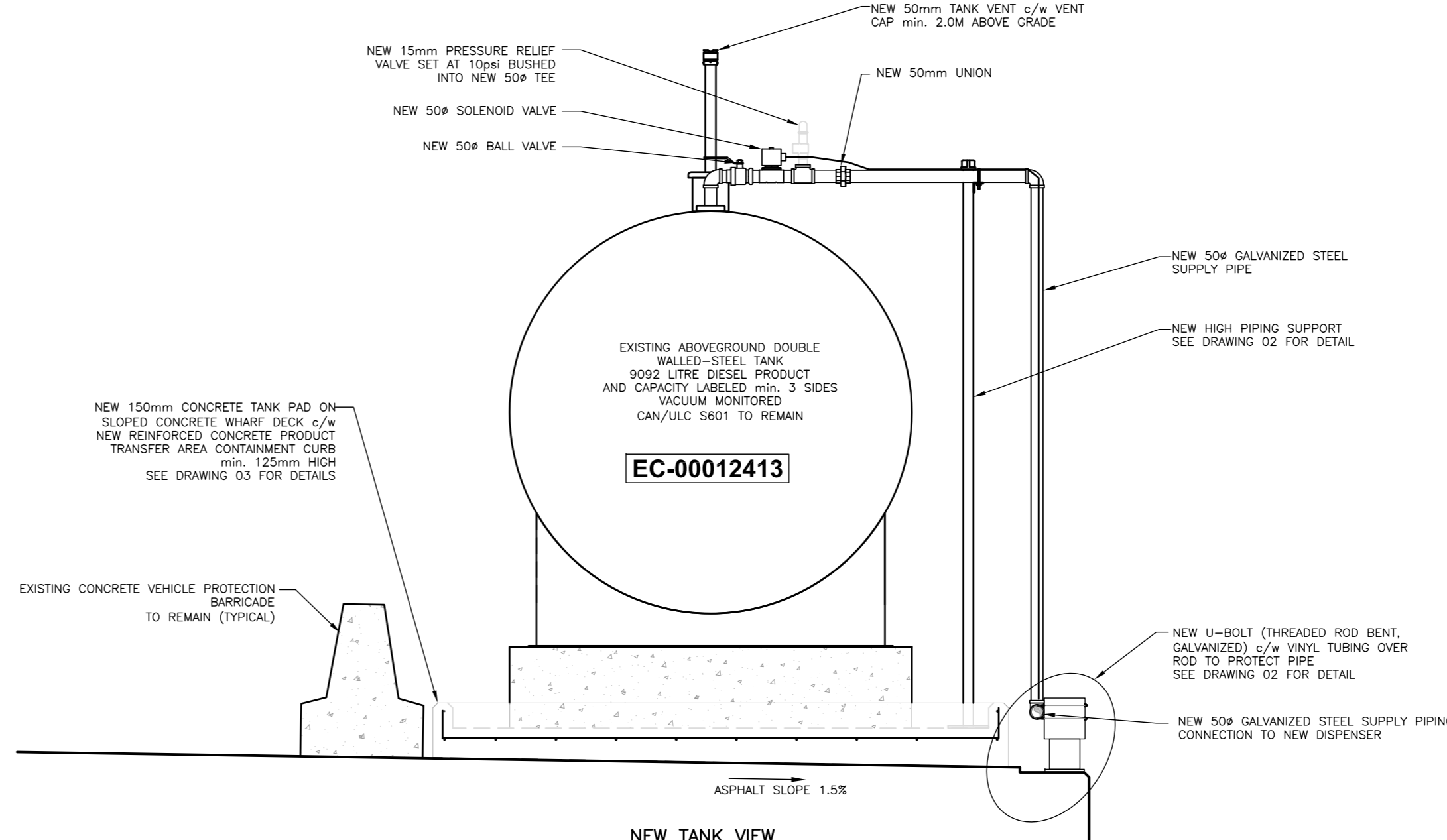
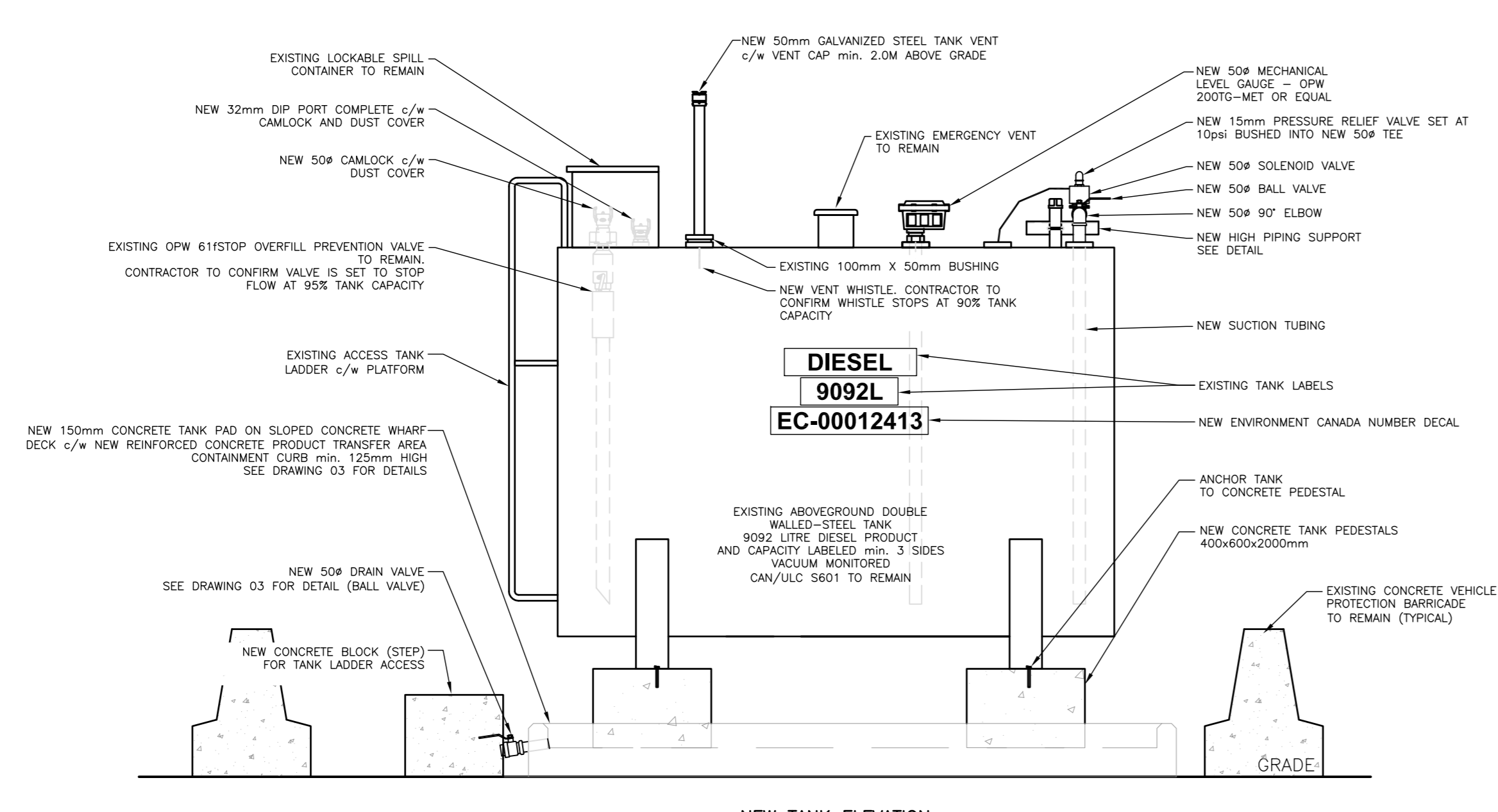
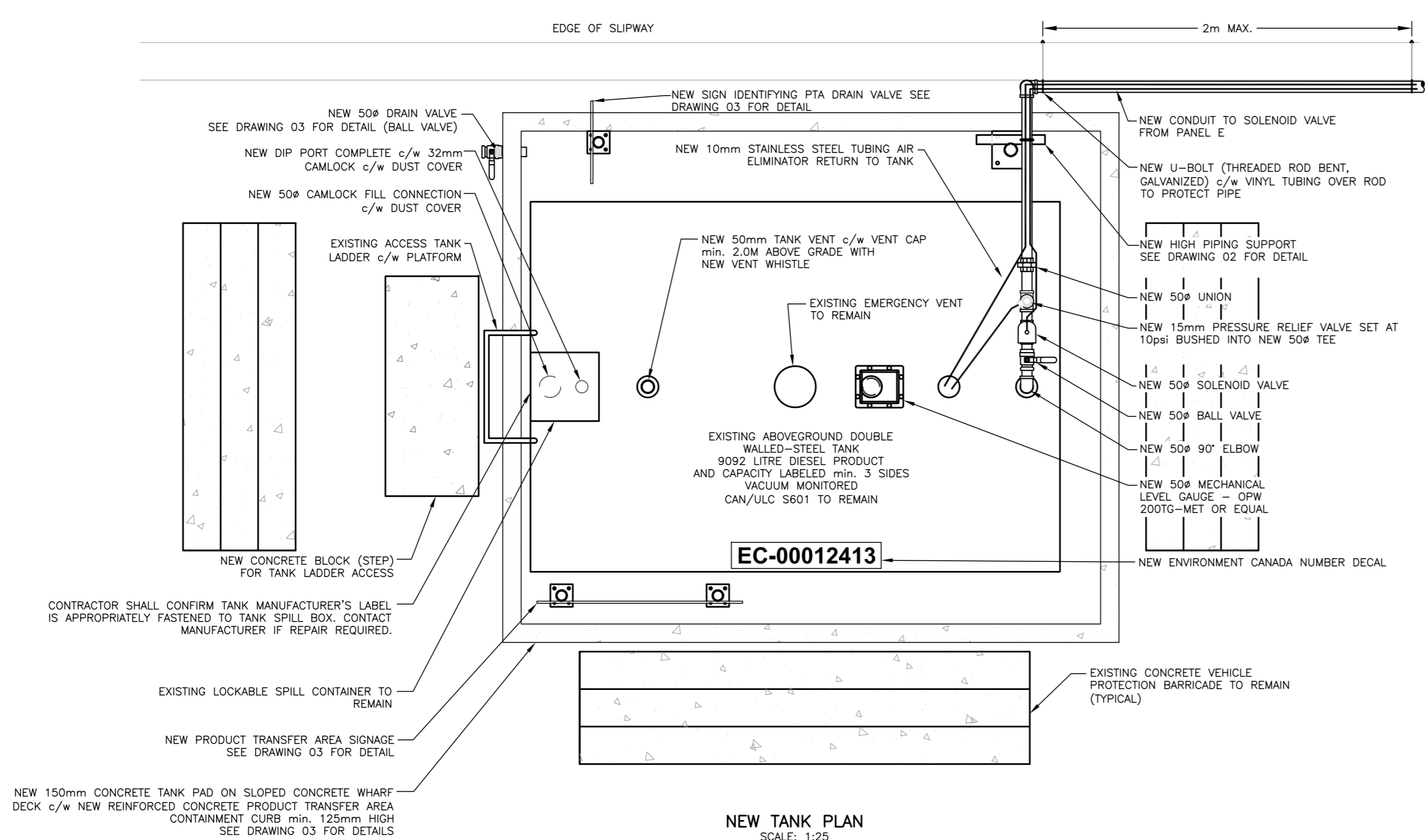
Stantec

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NOTE:
THE EXISTING STORAGE TANK IS REQUIRED TO BE TEMPORARILY REMOVED FROM SERVICE TO ALLOW NEW WHARF CONSTRUCTION AND ASPHALT PAVEMENT. EXISTING PIPING, DISPENSERS, DISPENSER ISLAND AND OTHER ANCILLARY EQUIPMENT IS REQUIRED TO BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH PROVINCIAL REGULATIONS. ALL WORK TO BE CO-ORDINATED THROUGH THE PROJECT ADMINISTRATOR.

- NOTES:
- INSTALLER TO VERIFY LOCATION OF ALL PROPERTY BOUNDARIES, STRUCTURES, UTILITIES, ROADS/DRIVEWAYS, WELLS, WATERCOURSES AND WATERBODIES BEFORE BEGINNING OF WORK.
 - INSTALLER TO ADVISE DEPARTMENTAL REPRESENTATIVE OF ANY ADDITIONS OR CHANGES TO SITE PLAN RESULTING FROM NOTE 1 PRIOR TO BEGINNING OF WORK.
 - ALL STORAGE TANK INSTALLATIONS SHALL COMPLY WITH FEDERAL REGULATIONS, THE NATIONAL FIRE CODE OF CANADA, THE CANADIAN ELECTRICAL CODE, CEPA PETROLEUM STORAGE TANK REGULATIONS, AS WELL AS ANY OTHER GOVERNING CODES AND INSTALLATION PRACTICES.
 - THE EMERGENCY STOP BUTTONS SHALL SHUT DOWN ALL POWER TO THE DISPENSER WHEN PRESSED.
 - THE EMERGENCY STOP BUTTON MUST BE REMOTELY LOCATED, c/w SIGNAGE (7-10m FROM THE DISPENSING AREA) (CLEARLY VISIBLE FROM FUELING AREA).
 - MARINE FUEL DISPENSING STATIONS DISPENSER NOZZLES SHALL NOT BE EQUIPPED WITH A HOLD OPEN DEVICE.
 - IT IS RECOMMENDED THAT DISPENSER HOSES BE EQUIPPED WITH BREAKAWAY COUPLINGS INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.
 - CONTRACTOR TO VERIFY INTEGRITY OF TANK INTERSTITIAL VACUUM PRIOR TO INSTALLATION.
 - SYSTEM OWNER TO ENSURE MEASURES ARE TAKEN TO PREVENT UNAUTHORIZED ACCESS TO THE STORAGE TANK AND AUXILIARY EQUIPMENT.
 - ALL NEW EQUIPMENT SHALL BE I.L.C. LISTED AND INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.
 - TANK MUST BE REGISTERED WITH ENVIRONMENT CANADA PRIOR TO USE.
 - OWNER IS RESPONSIBLE TO ENSURE AN APPROPRIATE EMERGENCY PLAN IS IMPLEMENTED TO MEET THE REQUIREMENTS OF THE CANADIAN ENVIRONMENTAL PROTECTION ACT, STORAGE TANK SYSTEMS FOR PETROLEUM PRODUCTS AND ALLIED PETROLEUM PRODUCTS REGULATIONS, 2008 (CEPA) SECTIONS 30-32.
 - PRIOR TO OPERATION, AS BUILT DRAWINGS BEARING AN ENGINEER'S STAMP MUST BE COMPLETED.
 - SPILL KIT AND/OR ABSORBENT MATERIAL REQUIRED AT FUEL DISPENSING AREA.
 - DO NOT UNDERMINE OR COMPROMISE ANY FOOTINGS OR FOUNDATION STRUCTURES. ALWAYS BE AWARE OF THE LOCATION OF EXISTING UTILITIES AND OVERHEAD POWER LINES.
 - IF FURTHER CLARIFICATIONS ARE REQUIRED ON EQUIPMENT OR THE INSTALLATION OF EQUIPMENT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST CLARIFICATIONS FROM THE DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR TO ENSURE STEEL PIPING TO BE ELECTRICALLY ISOLATED FROM STAINLESS HARDWARE WITH VINYL MATERIAL.



2	ISSUED FOR TENDER	01/31/2017
1	ISSUED FOR 99% REVIEW	01/26/2017

project

MARINE FUEL-DISPENSING SYSTEM

PETIT-CAP, NB
WESTMORLAND COUNTY

drawing

GENERAL ARRANGEMENT
EC-00012413

designed J. SLIPP conçu

date JAN 23, 2017

drawn M. CLARK dessiné

date JAN 23, 2017

approved E. FINNAMORE approuvé

date JAN 23, 2017

Tender Soumission

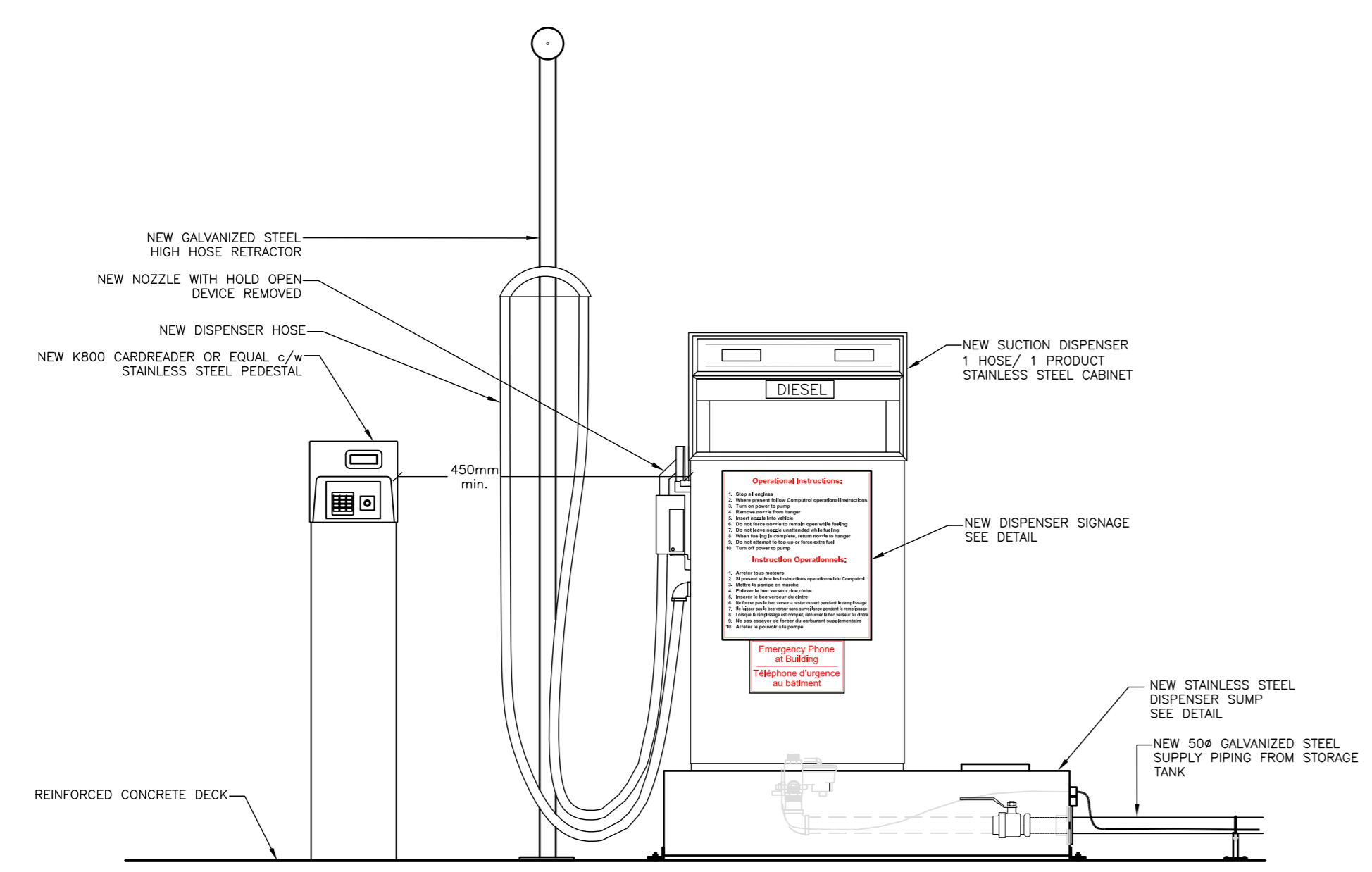
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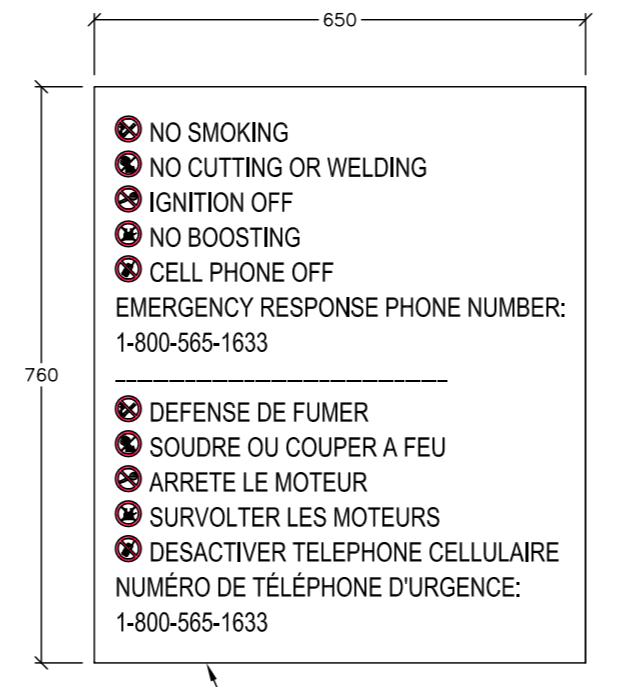
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drawing no. no. du dessin

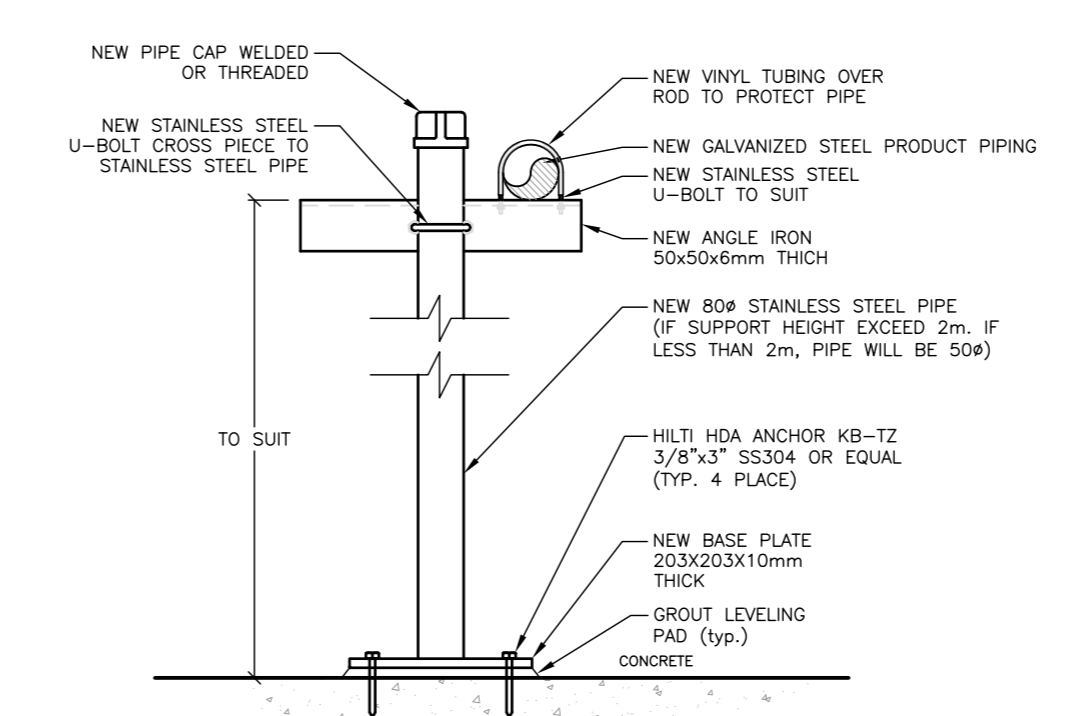
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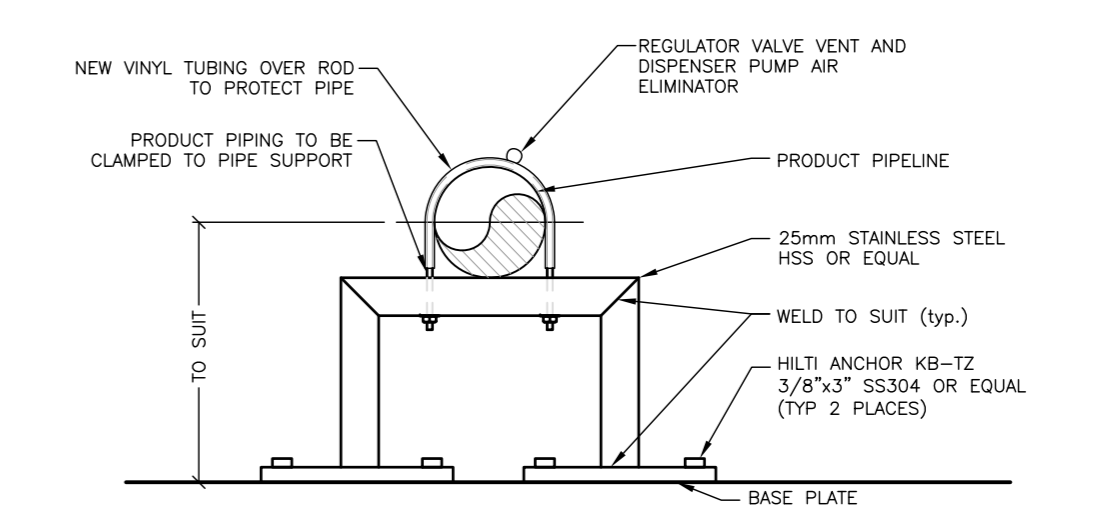
NEW DISPENSER DETAIL
SCALE: 1:20



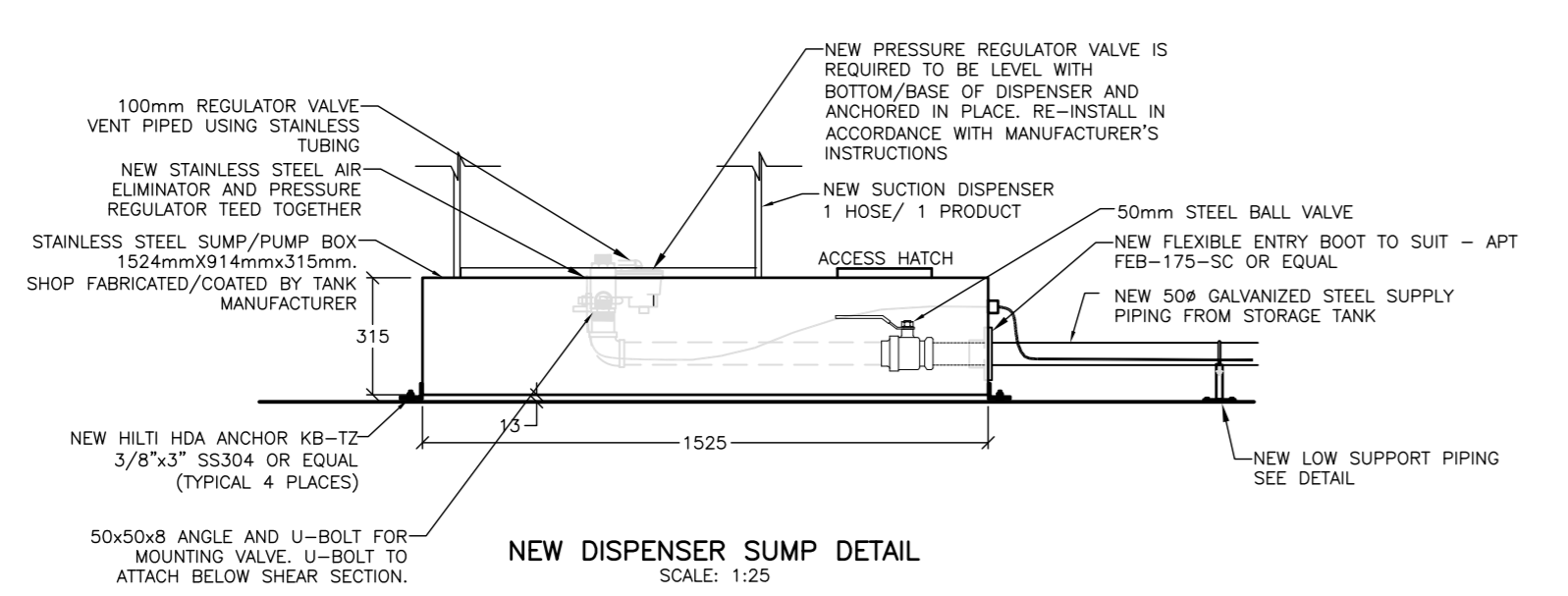
NEW DISPENSER SIGNAGE
SCALE: 1:10



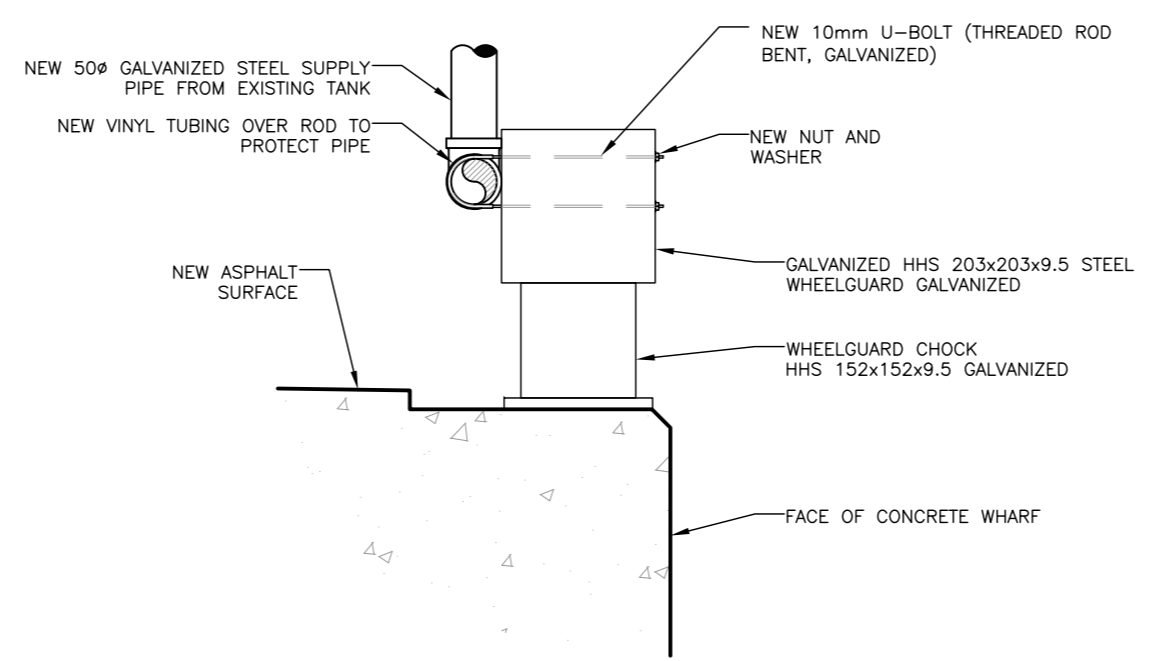
NEW HIGH PIPING SUPPORT DETAIL
SCALE: 1:10



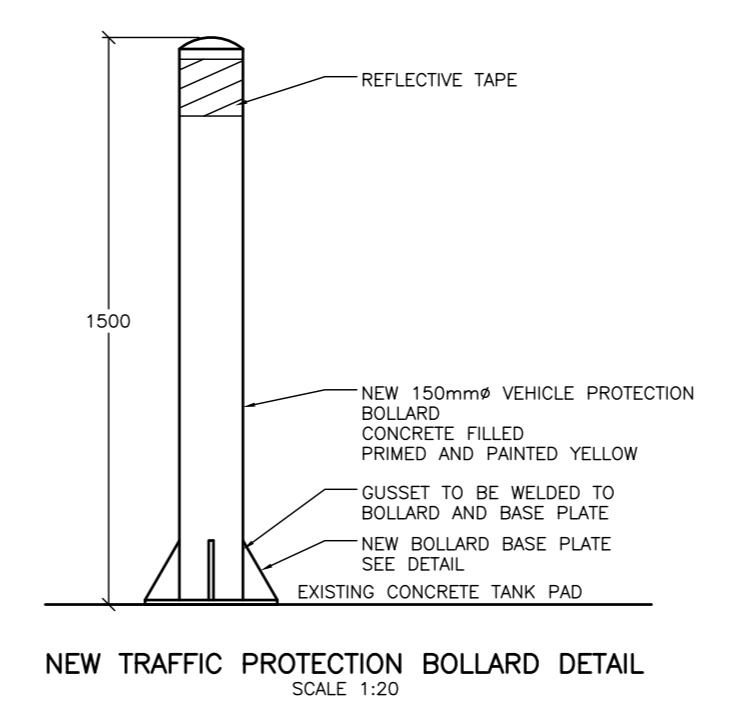
NEW LOW PIPING SUPPORT DETAIL
SCALE: 1:5



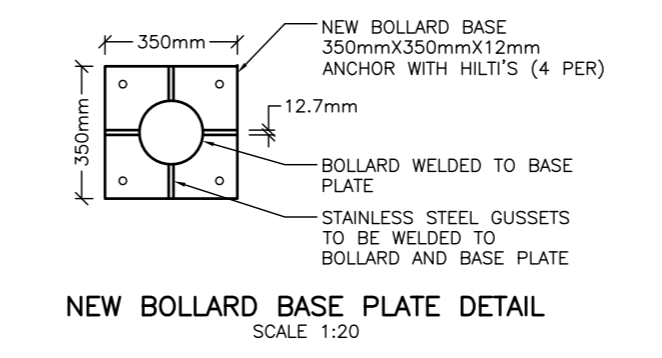
NEW DISPENSER SUMP DETAIL
SCALE: 1:25



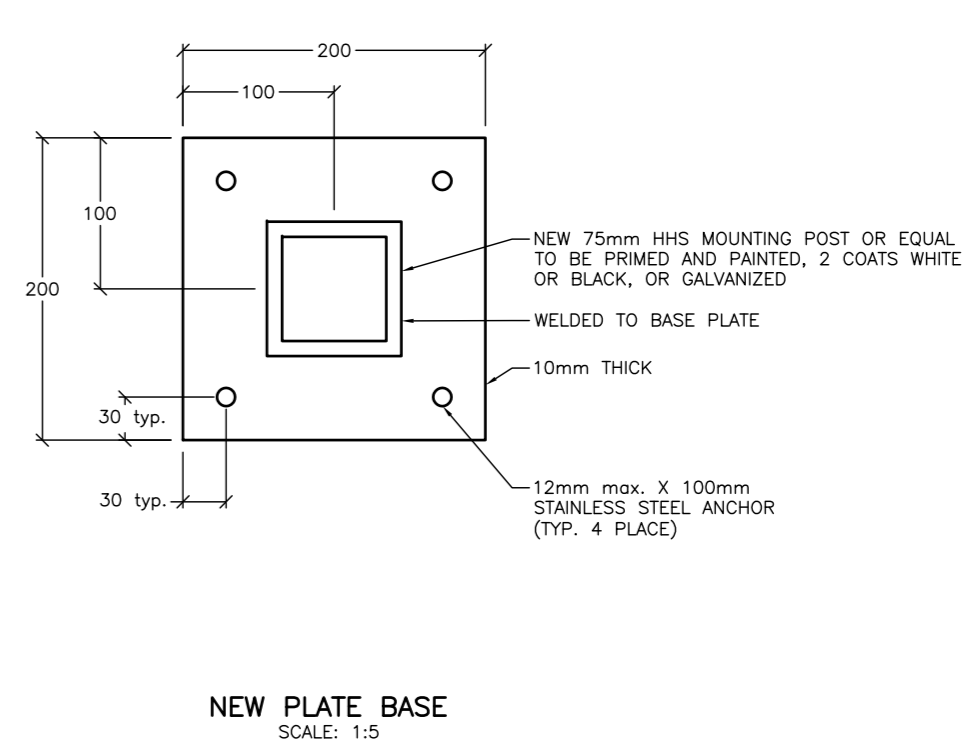
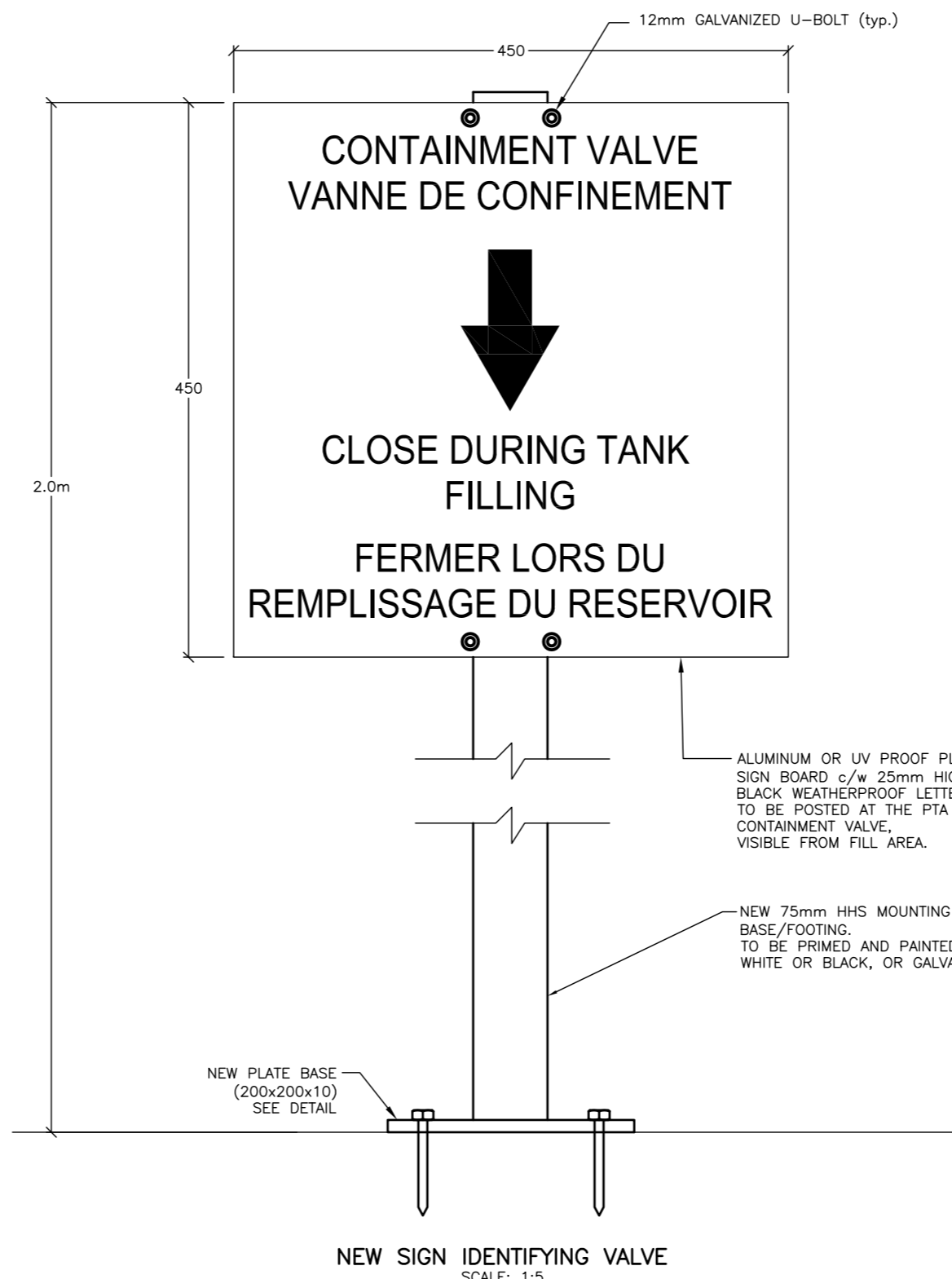
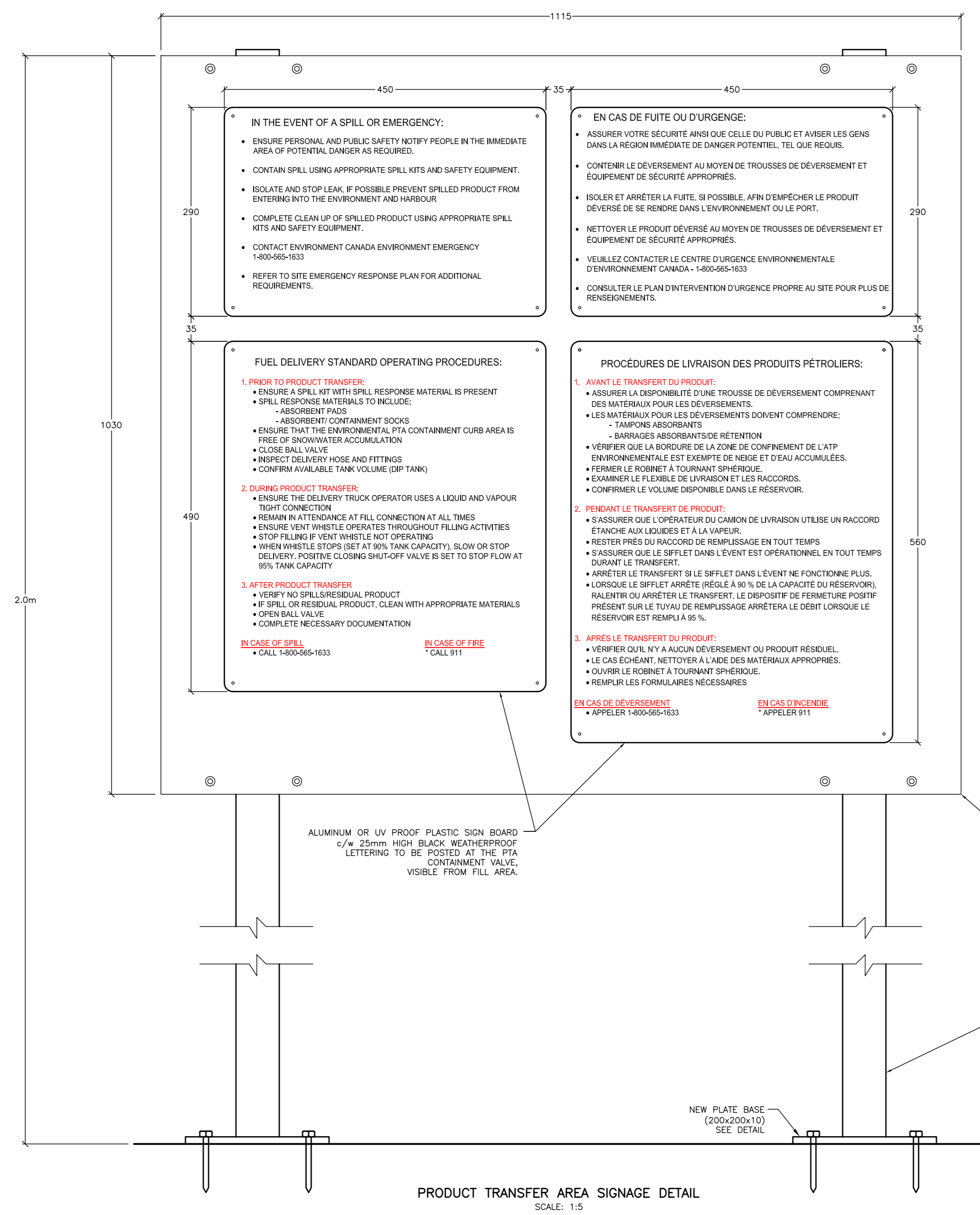
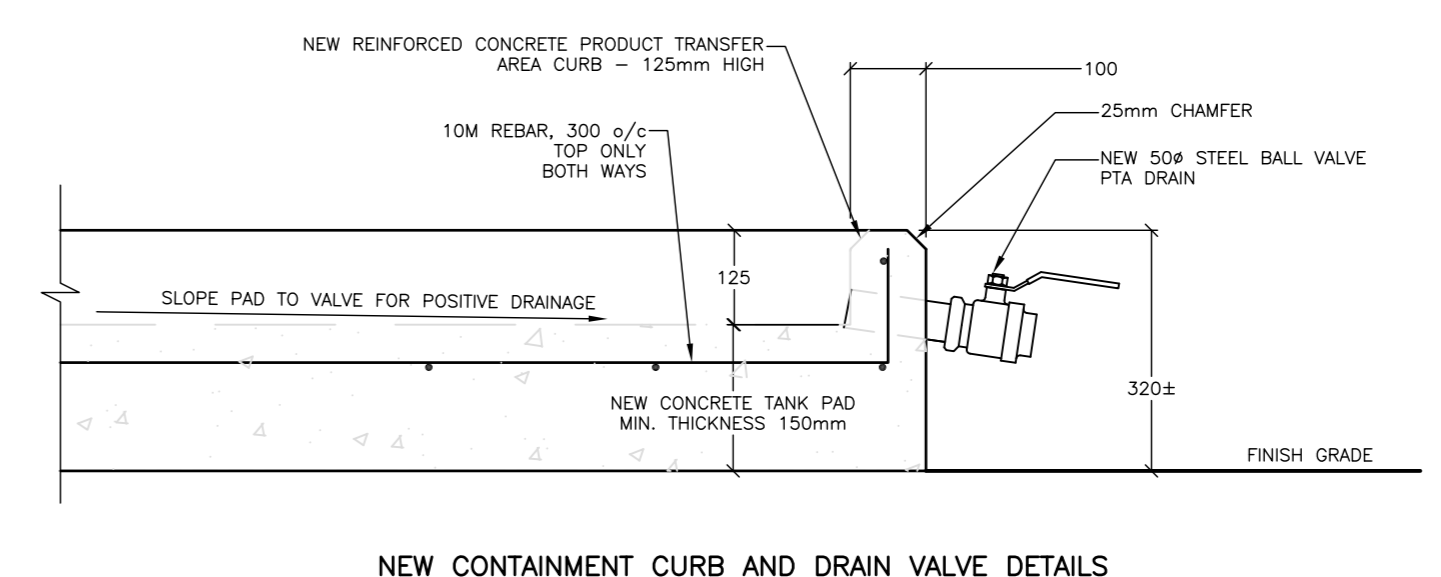
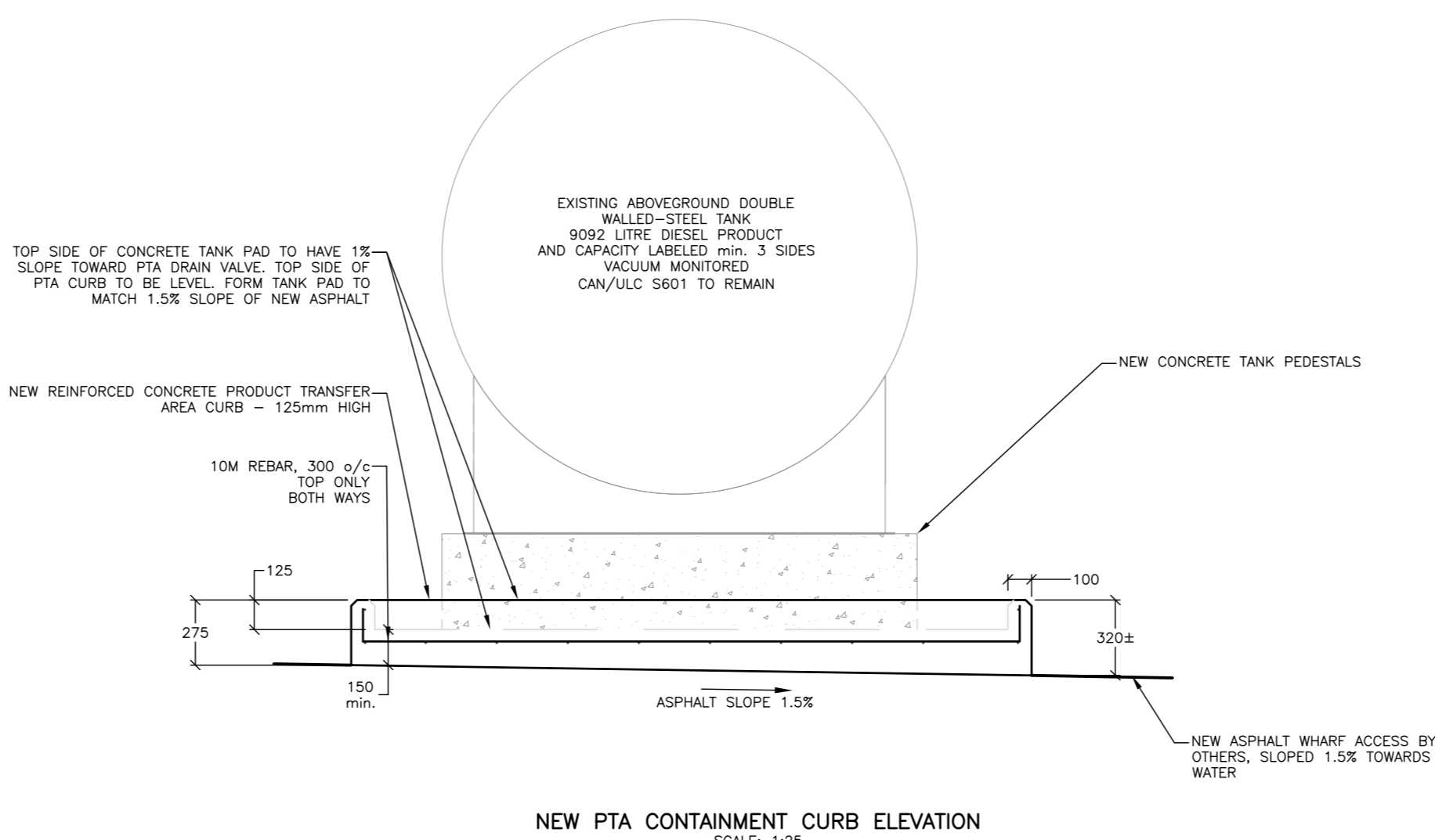
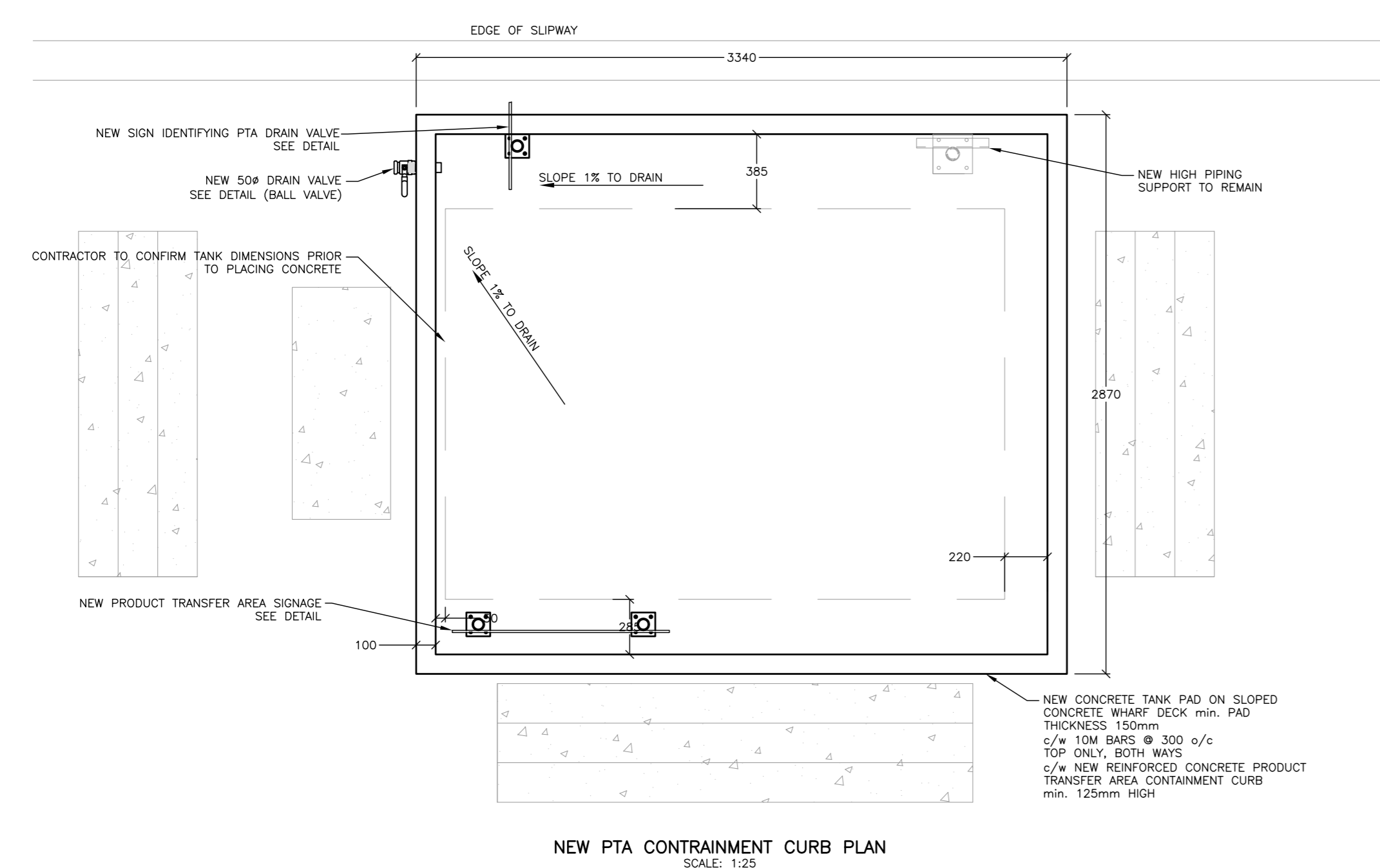
NEW U-BOLT SUPPORT/WHEEL GUARD DETAIL
SCALE: 1:25



NEW TRAFFIC PROTECTION BOLLARD DETAIL
SCALE: 1:20

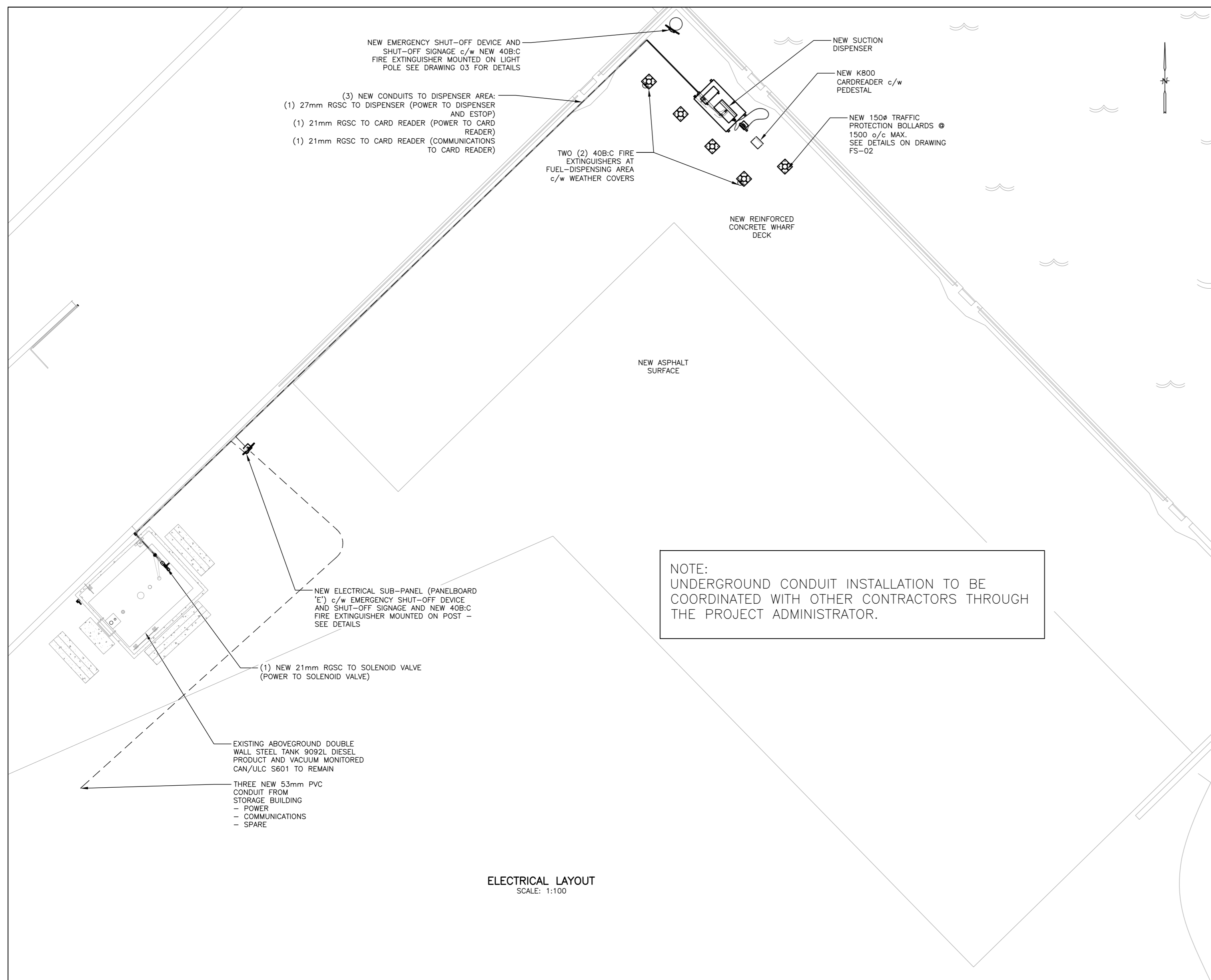


NEW BOLLARD BASE PLATE DETAIL
SCALE: 1:20

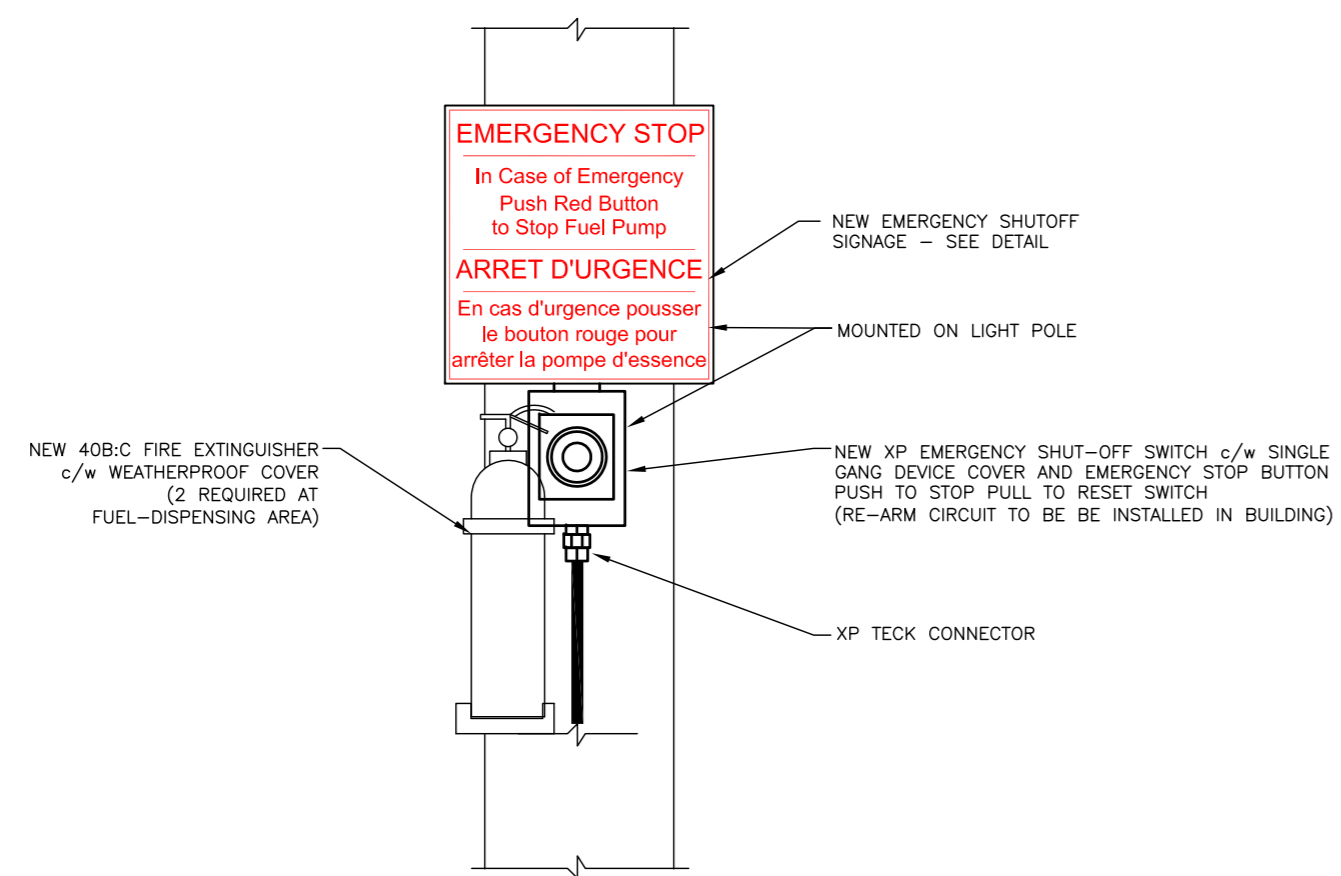


PRODUCT TRANSFER AREA
THIS DESIGN HAS BEEN DEVELOPED TO MEET THE INTENT OF THE REQUIREMENTS FOR A PRODUCT TRANSFER AREA THROUGH A "PTA METHOD" APPROACH IN ACCORDANCE WITH THE ENVIRONMENT CANADA COMPLIANCE PROMOTION "PRODUCT TRANSFER AREA WORKSHOP" INFO SHEET AND SAMPLE WRITE-UPS FOR PRODUCT TRANSFER AREAS, DATED FEBRUARY 3, 2012. A PTA METHOD IDENTIFIES POTENTIAL ENVIRONMENTAL RISK AND SPILL SCENARIOS AS WELL AS RISK MITIGATION ACTIONS AND SYSTEM SAFETY COMPONENTS ASSOCIATED WITH SPILLS RESULTING FROM PRODUCT TRANSFER INTO A STORAGE TANK SYSTEM. A PTA METHOD MUST ALSO INCLUDE PHYSICAL CONTAINMENT BEYOND CONTAINMENT PROVIDED BY A FILL PIPE SPILL CONTAINMENT BOX.
THE SIGNIFICANT ENVIRONMENTAL RISK ASSOCIATED WITH THIS STORAGE SYSTEM IS THE PROXIMITY TO PETIT-CAP HARBOUR. THE MOST LIKELY SPILL SCENARIO WOULD BE AN OVERFILL OCCURRENCE DURING A FUEL DELIVERY. BASED ON A TYPICAL TRUCK FILLING RATE OF 280 L/MIN AND A CONSERVATIVE REACTION TIME TO STOP THE FLOW OF 3 MINUTES, THE ANTICIPATED SPILL SCENARIO (CALCULATED SPILL VOLUME) FOR THIS DESIGN IS 840L.
THE SYSTEM IS DESIGNED WITH THE FOLLOWING MITIGATION COMPONENTS:
- VENT WHISTLE SET AT 90% CAPACITY TANK
- POSITIVE CLOSING OVERFILL PREVENTION DEVICE SET AT 95% TANK CAPACITY
- ENVIRONMENTAL CONCRETE PERIMETER CURB (SIZED TO CONTAIN 1000L)
- TANK MANUFACTURER SUPPLIED SPILL CONTAINMENT BOX AT FILL PIPE CONNECTION
- PRODUCT TRANSFER AREA INSTRUCTIONAL SIGNAGE WILL BE POSTED AT FILL PIPE AREA
- EMERGENCY CONTACT SIGNAGE WILL BE POSTED
- A FULLY STOCKED SPILL KIT WILL BE LOCATED AT THE TANK AREA
- AN EMERGENCY RESPONSE PLAN, SPECIFIC TO THE STORAGE SYSTEM, WILL BE POSTED.

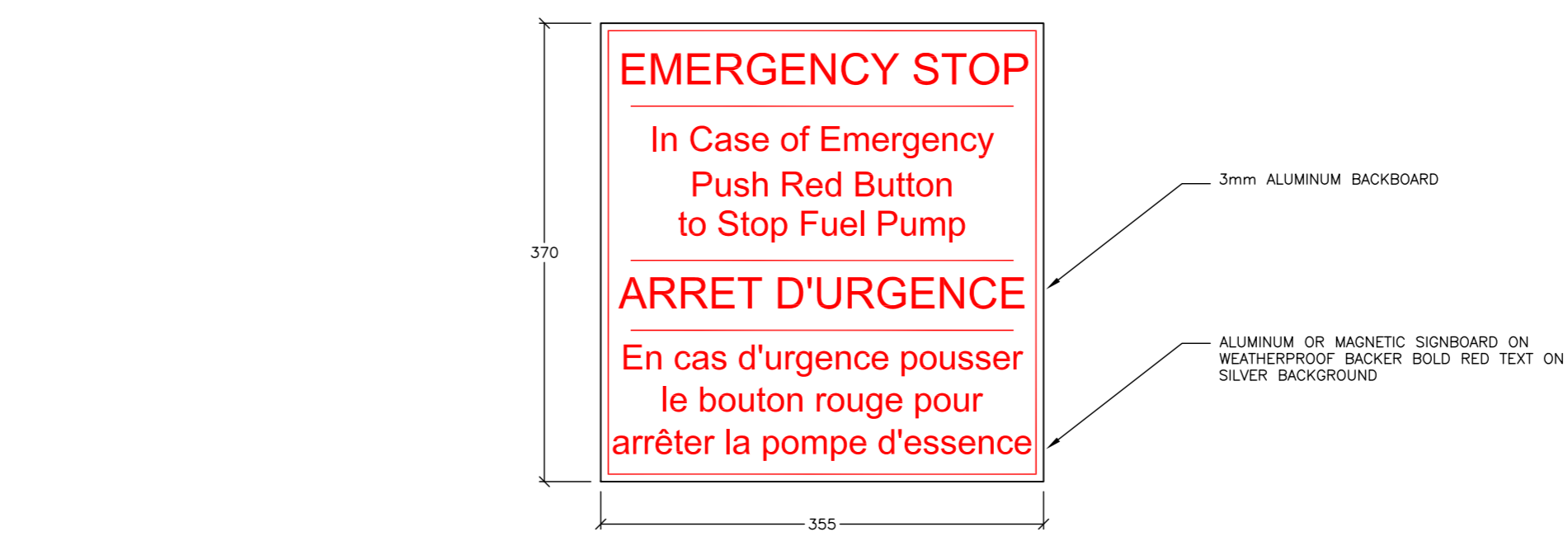
2	ISSUED FOR TENDER	01/31/2017
1	ISSUED FOR 99% REVIEW	01/26/2017
revisions		
project	MARINE FUEL-DISPENSING SYSTEM	project
	PETIT-CAP, NB WESTMORLAND COUNTY	
drawing	PRODUCT TRANSFER PLAN AND DETAILS EC-00012413	dessin
designed	J. SLIPP	conçu
date	JAN 23, 2017	
drawn	M. CLARK	dessiné
date	JAN 23, 2017	
approved	E. FINNAMORE	approuvé
date	JAN 23, 2017	
Tender		Soumission
Project Manager	Administrateur de projets	
project number	721989	no. du projet
drawing no.	FS-03	no. du dessin



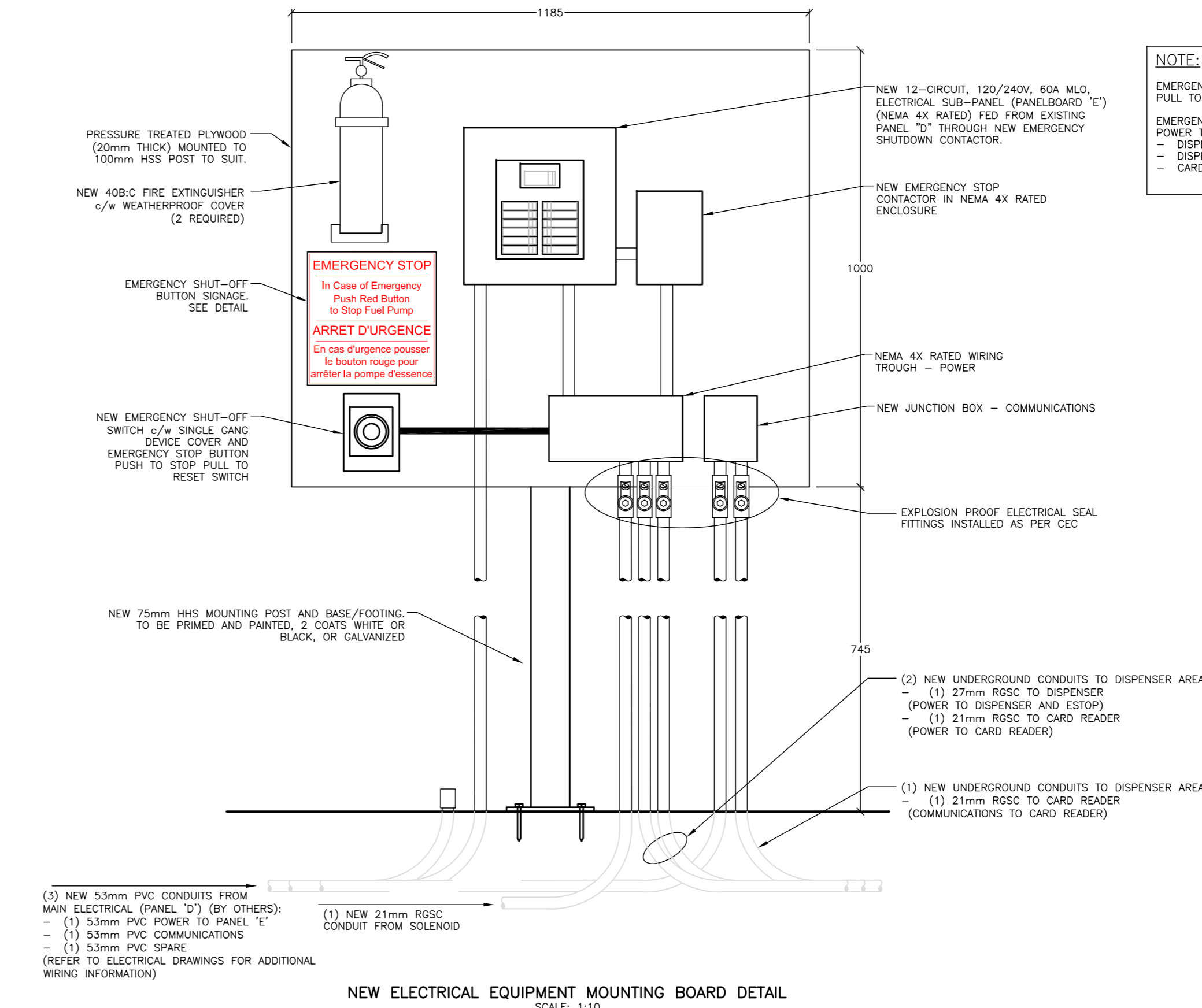
ELECTRICAL LAYOUT
SCALE: 1:100



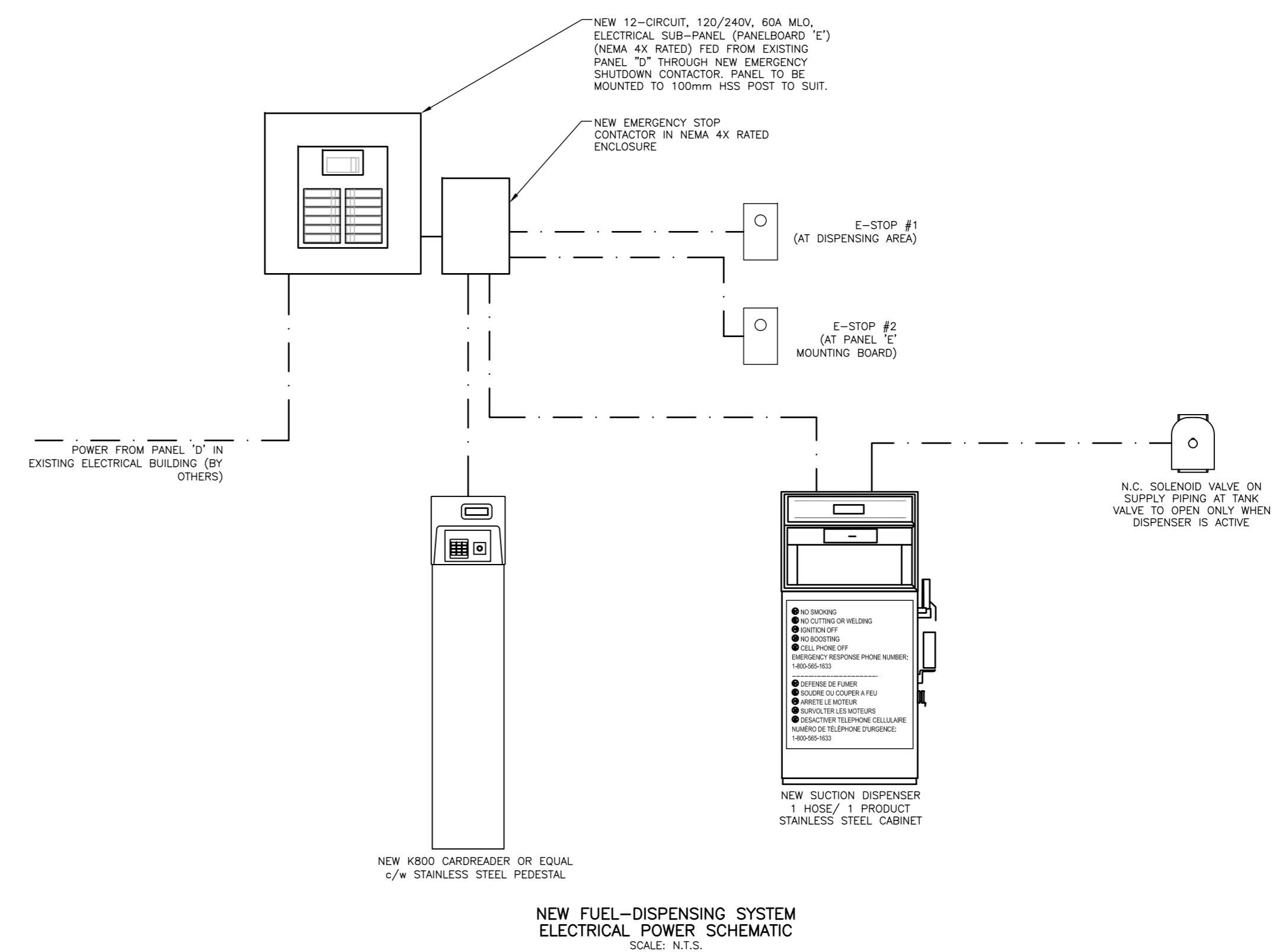
NEW EMERGENCY SHUT-OFF DEVICE/SIGNAGE DETAIL
(MOUNTED ON LIGHT POLE NEAR DISPENSER AREA)
SCALE: 1:5



NEW EMERGENCY SHUT-OFF SIGNAGE
SCALE: 1:5



NEW ELECTRICAL EQUIPMENT MOUNTING BOARD DETAIL
SCALE: 1:10



NEW FUEL-DISPENSING SYSTEM
ELECTRICAL POWER SCHEMATIC
SCALE: N.T.S.

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revisions		date
project		project
MARINE FUEL-DISPENSING SYSTEM		
PETIT-CAP, NB WESTMORLAND COUNTY		

drawing EC-00012413
design J. SLIPP
date JAN 23, 2017
drawn M. CLARK
date JAN 23, 2017
approved E. FINNAMORE
date JAN 23, 2017
Tender Submission

Project Manager	Administrateur de projets
project number	no. du projet
721989	
drawing no.	no. du dessin
FS-04	