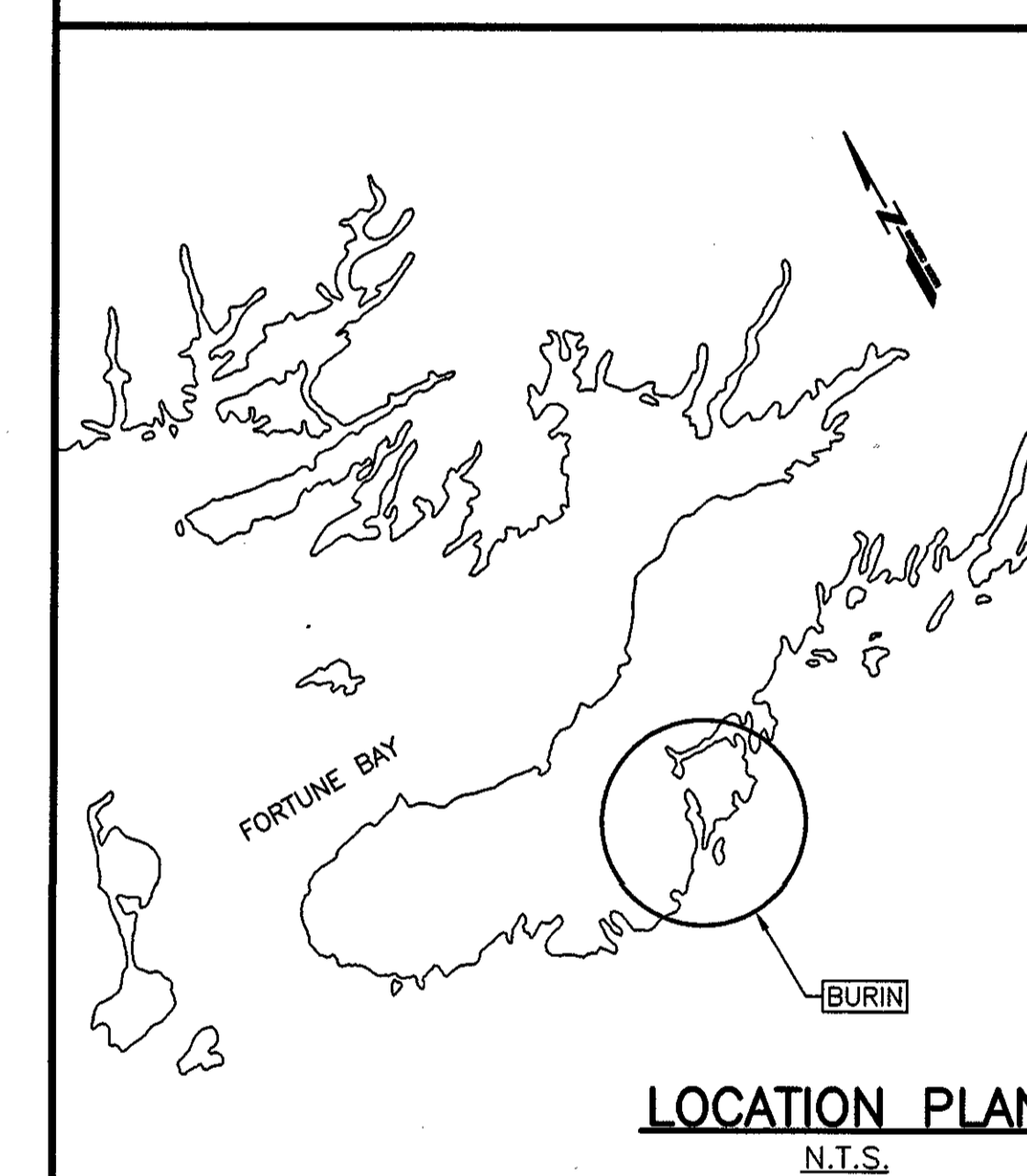
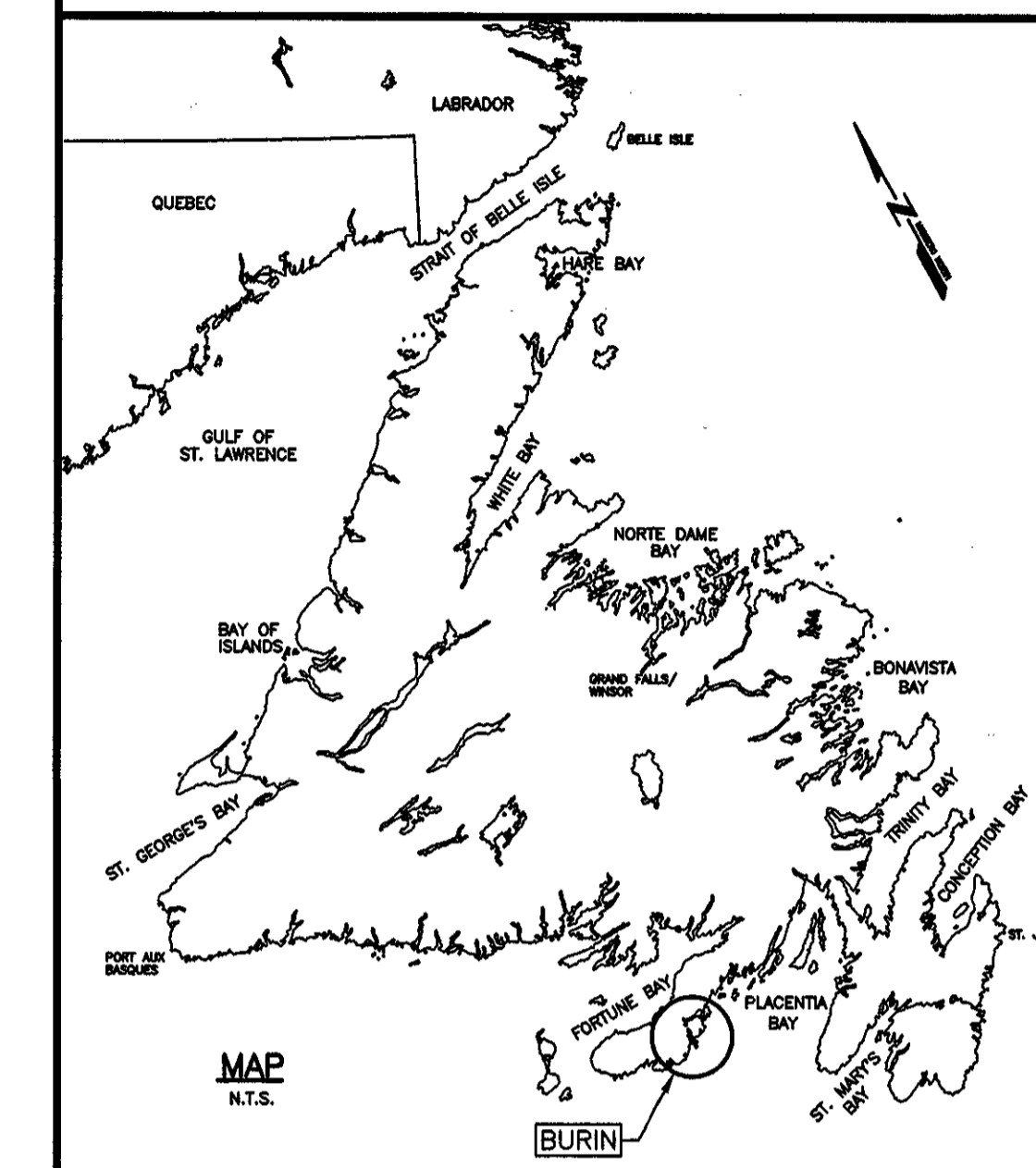


FISHERIES AND OCEANS
CANADA

**ELECTRICAL INSTALLATION
BURIN
NEWFOUNDLAND AND LABRADOR**

PROJECT No. 721603-004

SMALL CRAFT HARBOURS



LIST OF DRAWINGS:

C1 OF 2	SOUNDING AND TOPOGRAPHIC SURVEY
C2 OF 2	PAVING KEY PLAN AND SECTIONS
E1 OF 2	ELECTRICAL SITE PLAN
E2 OF 2	ELECTRICAL DETAILS

NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
 SURVEY VESSEL ALUMINUM BOAT
 SURVEY DATE(S) MARCH 9, 2011 & NOV. 19, 2015

SOUNDER TYPE SINGLE TRANSDUCER
 SOUNDER SETTING MIN/INST VEL. OF SOUND 1520 m/s
 DEPTH GATE USED N/A FREQ. OF TRANS. 210 KHZ

POSITIONING SYSTEM USED DGPS (WITH OBT)
 LAND SURVEY POSITION BY DGPS (WITH OBT)

DATA TAPE/DISCS USED
 CAD DRAWING FILE(S)

TIDAL REDUCTION SCHEME

OFFICE PROCESSOR EDDIE BEARNS
 DATE OF PROCESSING DECEMBER 2015

MODE OF PLOTTING LEAST OF MINIMUM DEPTHS
 MATRIX CELL WIDTH X LENGTH
 REDUCTION OF MATRIX CELLS

CONTROL POINTS	PL. NAME	EASTING	NORTHING	CO. ELEV.	DESCRIPTION
7622856	639048.199	5210613.086			PROVINCIAL BRASS PLAQUE IN BEDROCK
7622857	639893.139	5210303.943			PROVINCIAL BRASS PLAQUE IN BEDROCK
PWC 1-96	639707.689	5210239.249	+3.567 m		NAIL RAM-SET IN CONCRETE DECK
BM 1-88	638700.679	5210209.191	+4.673 m		I.P. SET IN CONCRETE CULINDER
BM 1-98	638886.683	5210238.148	+3.136 m		BOLT CEMENTED IN BEDROCK
F.P. 1-2	638886.683	5210238.148			IRON PIN WITH CAP DRIVEN IN GROUND
PWC 1-2009	638936.020	5210198.589			NAIL RAM-SET IN CONCRETE DECK

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO BM 1-88 ELEV. +4.673 m (I.P. SET IN CONCRETE CULINDER) ESTABLISHED BY WATER LEVEL TRANSFER FROM CHS BM "VIC" ELEV. + 3.978 m LOCATED AT MARYSTOWN ON MARCH 25-26, 1986 BY PWGSC SURVEY CREW.

SOUNDINGS TAKEN USING NAVSOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE DIFFERENTIAL GPS POSITIONING SYSTEM ON MAR. 09, 2011 & NOV. 19, 2015 BY PWGSC SURVEY CREW.

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 21, USING THE NORTH AMERICAN DATUM OF 1983 (NAD83).

SOUNDINGS WERE REDUCED BY DIGITRACE & RE-CHECKED FROM SOUNDING CHARTS BEFORE BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION.

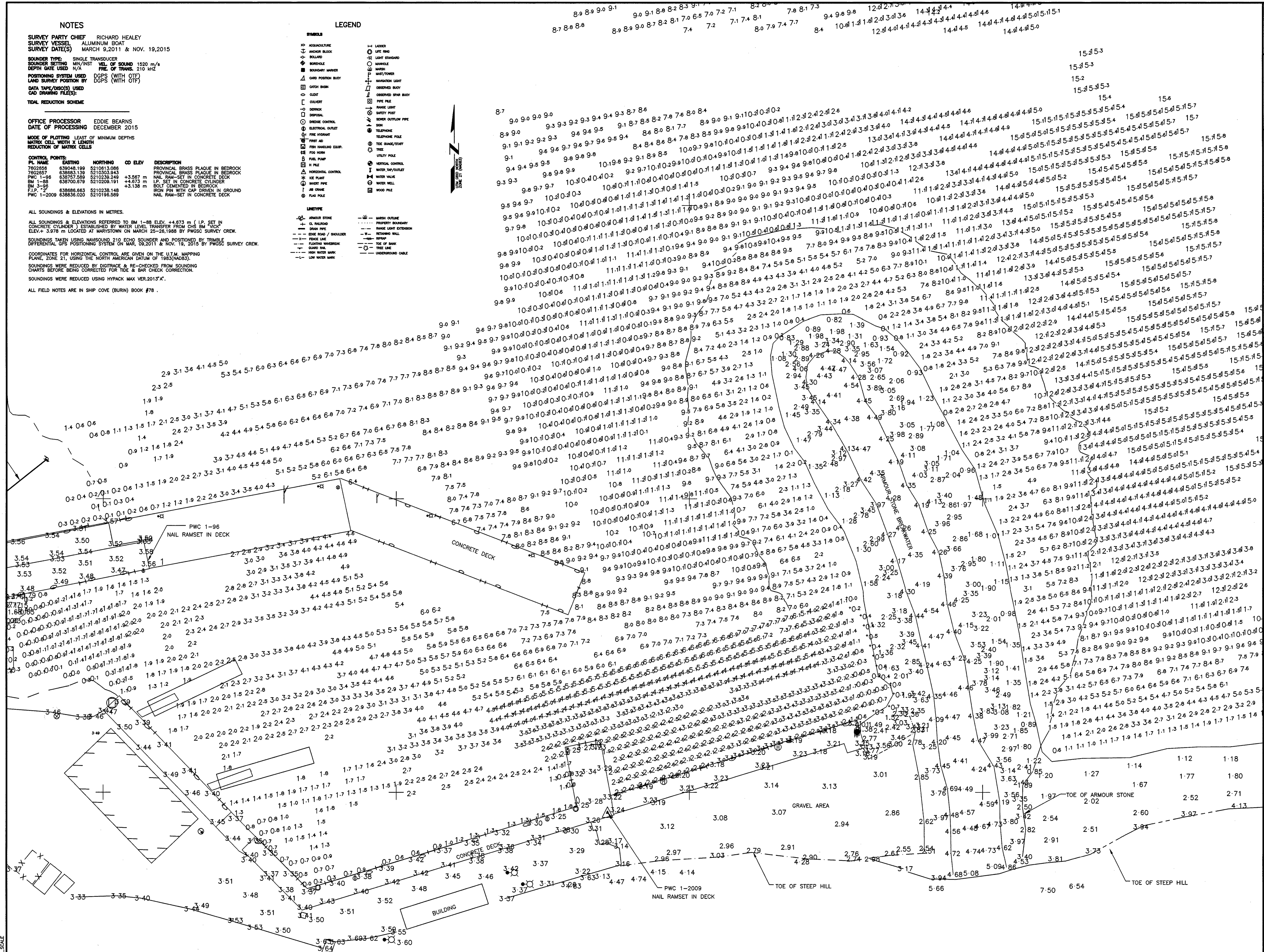
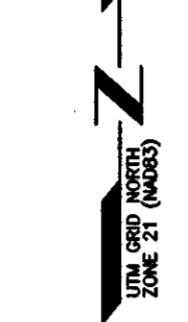
SOUNDINGS WERE REDUCED USING HYPACK MAX VER.2013.A.

ALL FIELD NOTES ARE IN SHIP COVE (BURIN) BOOK #78.

LEGEND

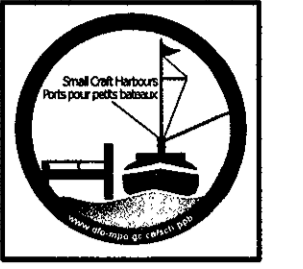
- TO ASSUMED/RECORDED
- ANCHOR BUOY
- BOLLARD
- BOREROLE
- BOUNDARY MARKER
- CARD POSITION BUOY
- CAUTION BAY
- CHART
- CLAYMOTT
- CONCRETE
- CONCRETE CONTROL
- ELECTRICAL OUTLET
- FIRE HYDRANT
- FIRE MAIN
- FISH HANGING GEAR
- FOG HORN
- FUEL PUMP
- ICE PILE
- ICE PLATE
- INDUSTRIAL CONTROL
- IRON PIN WITH CAP DRIVEN IN GROUND
- IRON PIN WITH CAP DRIVEN IN GROUND
- JAM CRANE
- LAG POLE

- ANVIL STONE
- CL. BARROW
- CRAN PILE
- EDGE ROAD / BOLLARD
- FENCE LINE
- FLOORING MARKER
- GAUGE PILE
- HIGH WATER MARK
- LOW WATER MARK
- WASH OUTLINE
- PROPERTY BOUNDARY
- RANGE LIGHT EXTENSION
- REINFORCING WALL
- SEWER
- TOE OF BANK
- UNDERGROUND CABLE



SCALE: 1:250
 0m 5m 10m 15m 20m 25m

SMALL CRAFT HARBOURS



NOTES:
 1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND
 PERMIT HOLDER
 This Permit Allows
 APN ENGINEERING INC.
 To practice Professional Engineering in Newfoundland and Labrador.
 Permit No. as issued by APEGL, P0292, which is valid for the year 2014.

REGISTERED PROFESSIONAL ENGINEER
 NEIL C. BURN
 P.E. 110
 REGISTRATION NO. 85/02/16
 NEWFOUNDLAND & LABRADOR

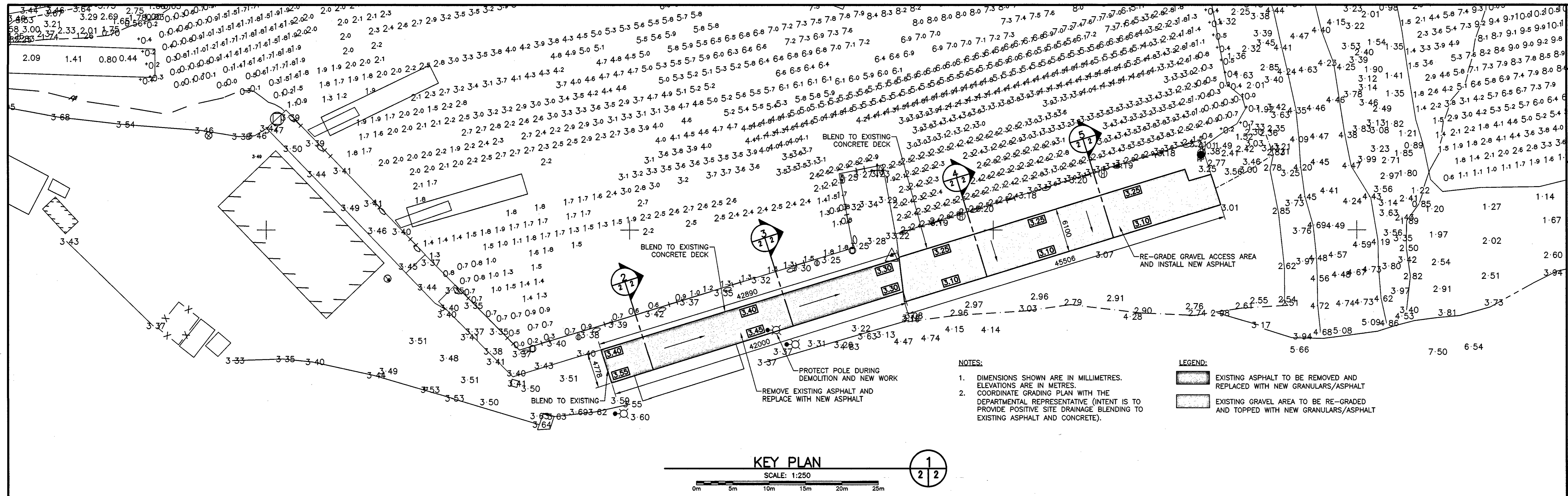
B	ISSUED FOR TENDER	25/02/16
A	ISSUED FOR REVIEW	20/02/16

ELECTRICAL INSTALLATION
 BURIN, NL

SOUNDING AND TOPOGRAPHIC SURVEY

designed N.H.	conou
date FEBRUARY 25, 2016	
drawn P.H.	designe
date FEBRUARY 25, 2016	
approved	approve

Tender Paul Burn
 DFO Project Manager
 project number 721603-004
 no. du projet



KEY PLAN
SCALE: 1:250

- NOTES:**
- DIMENSIONS SHOWN ARE IN MILLIMETRES. ELEVATIONS ARE IN METRES.
 - COORDINATE GRADING PLAN WITH THE DEPARTMENTAL REPRESENTATIVE (INTENT IS TO PROVIDE POSITIVE SITE DRAINAGE BLENDING TO EXISTING ASPHALT AND CONCRETE).

- LEGEND:**
- [Patterned Box] EXISTING ASPHALT TO BE REMOVED AND REPLACED WITH NEW GRANULARS/ASPHALT
 - [Patterned Box] EXISTING GRAVEL AREA TO BE RE-GRADED AND TOPPED WITH NEW GRANULARS/ASPHALT

Fisheries and Oceans Canada / Pêches et Océans Canada

SMALL CRAFT HARBOURS

- NOTES:**
- ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

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which is valid for the year 2016.

REGISTERED PROFESSIONAL ENGINEER

NEIL C. HUNT
MEMBERSHIP NO. 92/09/16
DATE

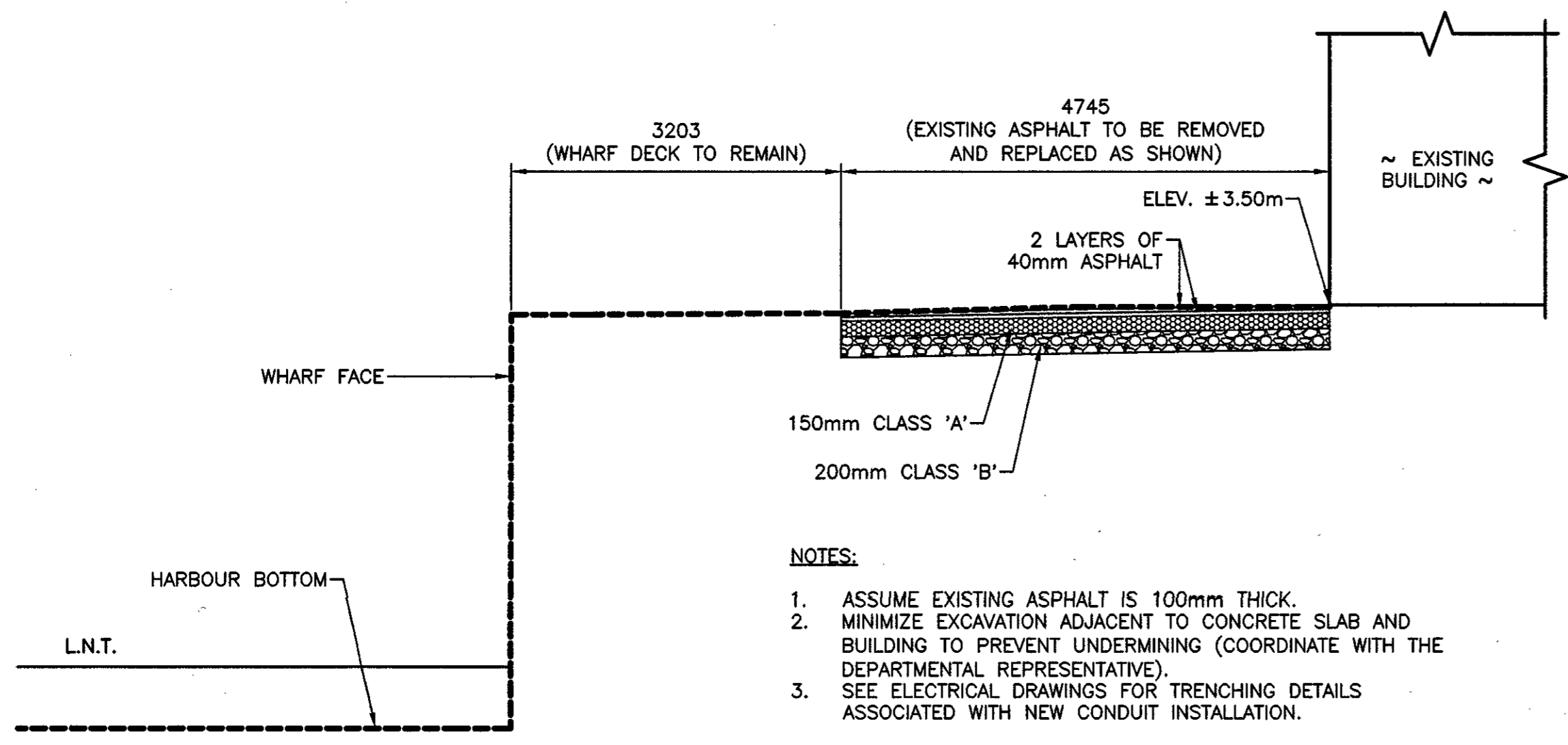
B	ISSUED FOR TENDER	25/02/16
A	ISSUED FOR REVIEW	20/02/16
revisions		date
project		project

ELECTRICAL INSTALLATION
BURIN, NL

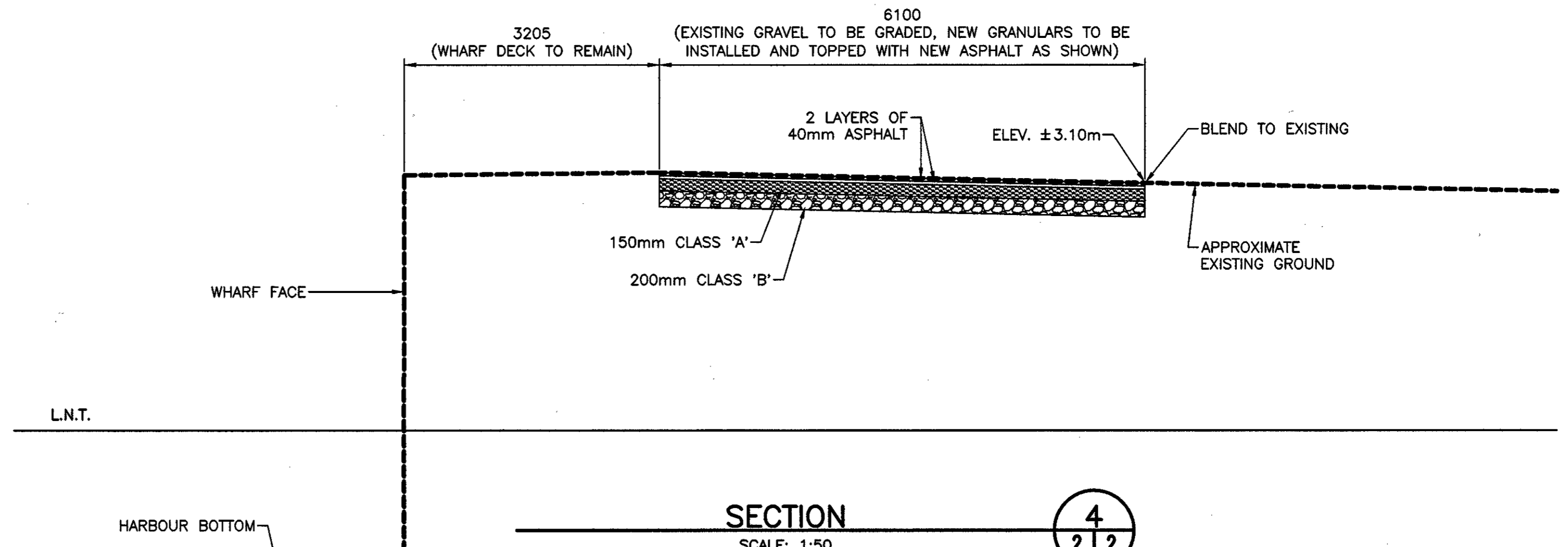
PAVING KEY PLAN AND SECTIONS

designed N.H.	concu
date FEBRUARY 25, 2016	
drawn P.H.	dessine
date FEBRUARY 25, 2016	
approved	approve

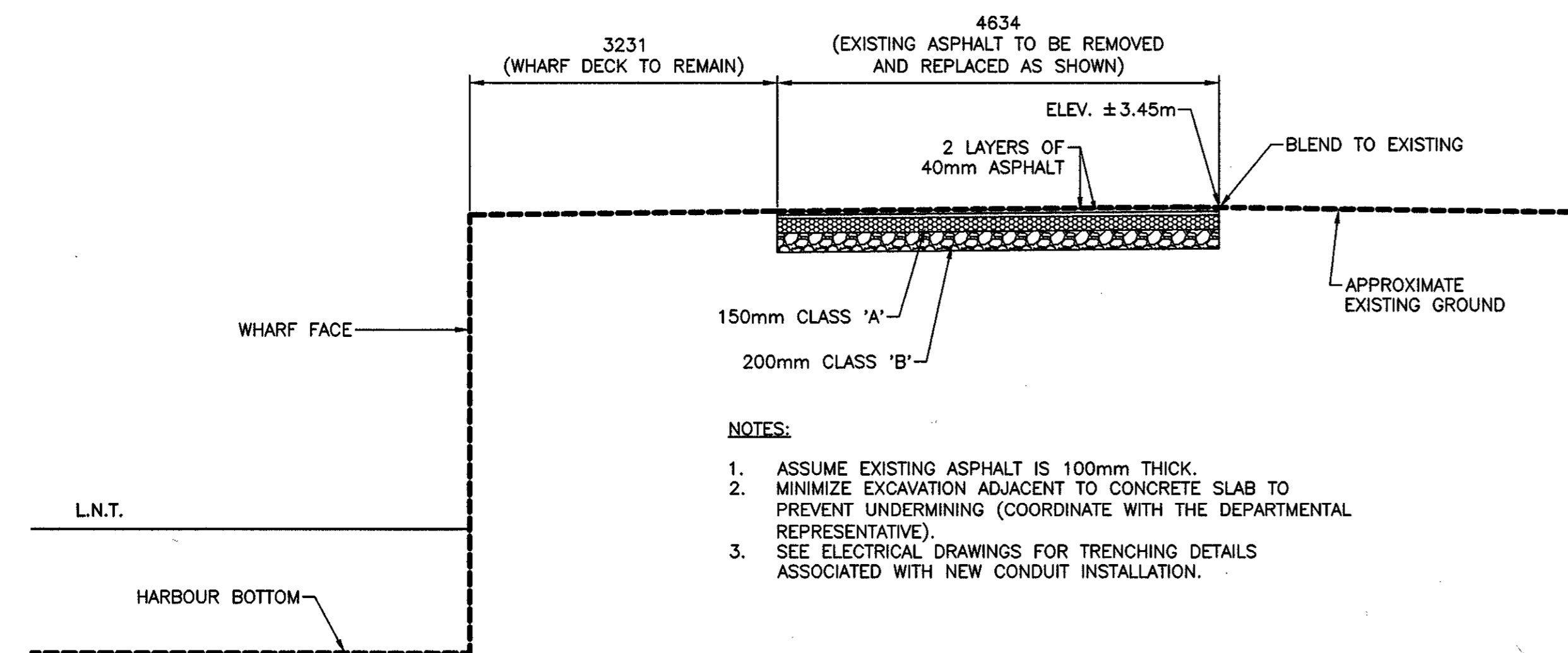
Tender	Submission
DFO Project Manager	
project number	no. du projet
721603-004	
drawing no.	no. du dessin
C2	



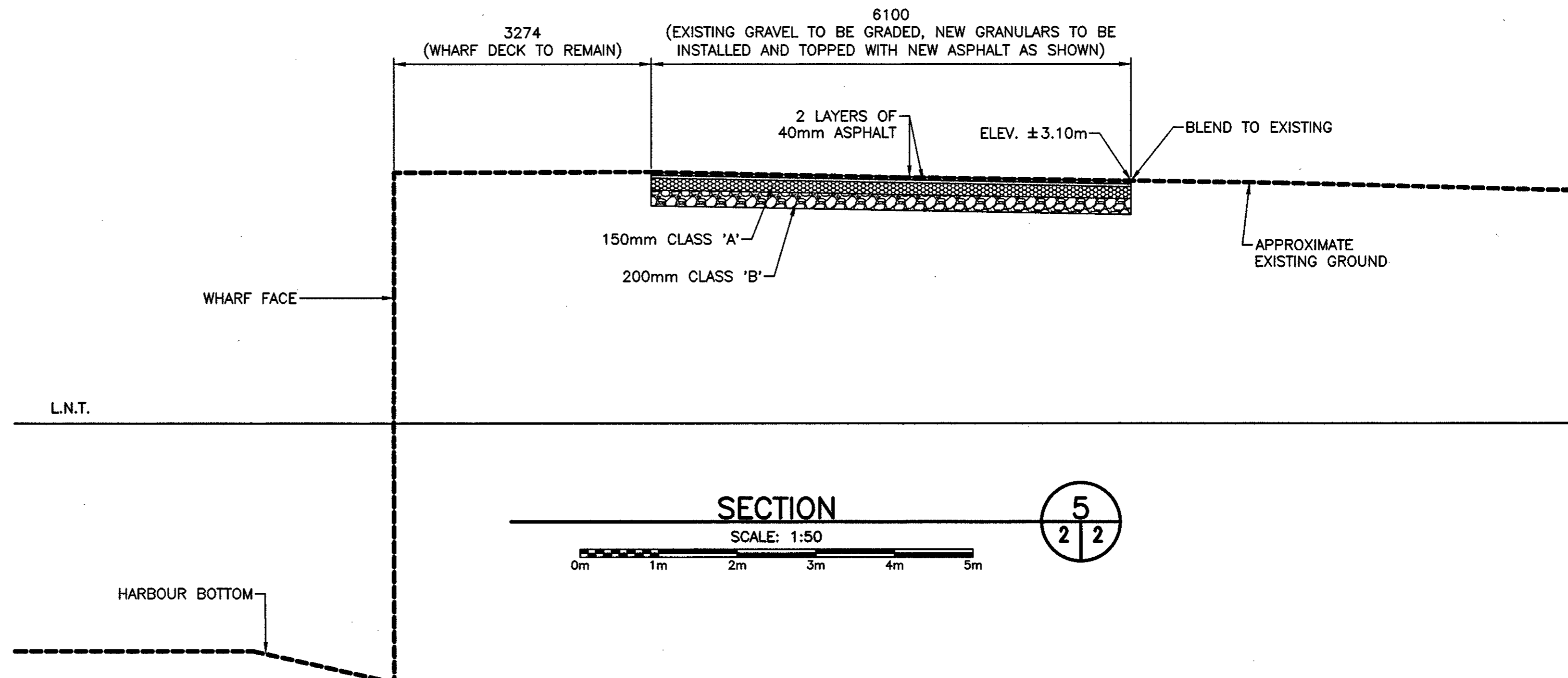
SECTION 2
SCALE: 1:50



SECTION 4
SCALE: 1:50

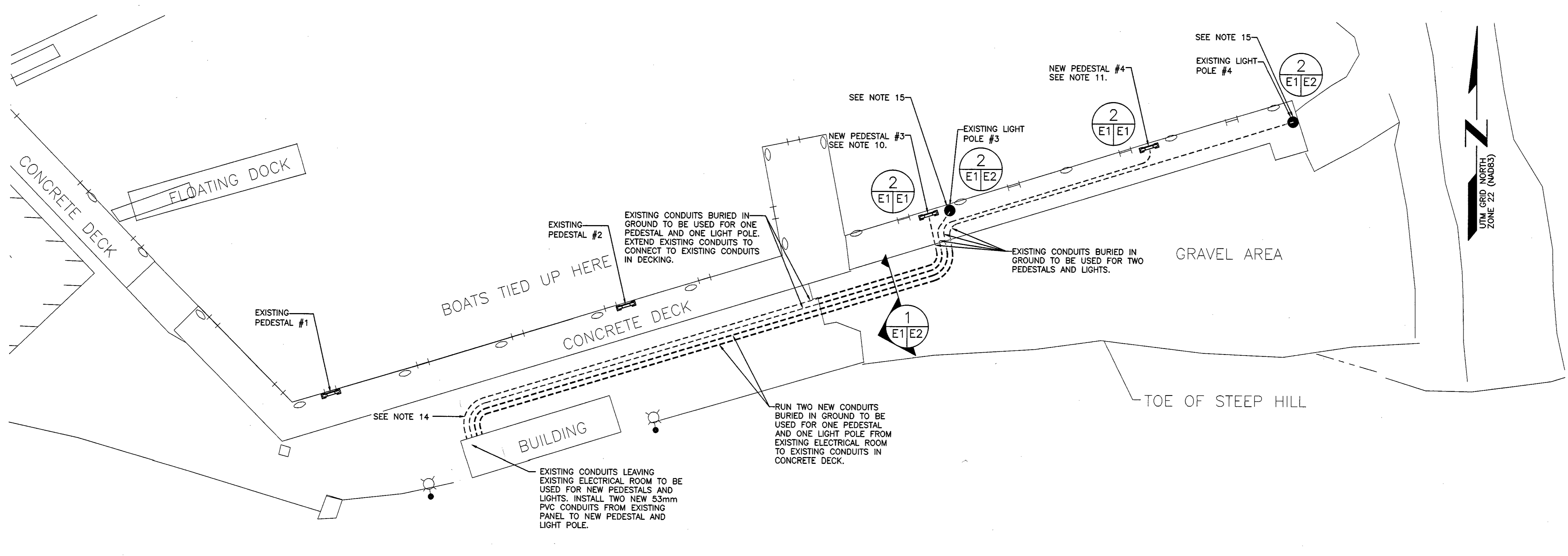


SECTION 3
SCALE: 1:50



SECTION 5
SCALE: 1:50

Plot Scale: PLOT SCALE



1 EXISTING SITE PLAN NEW INSTALLATIONS
 E1|E1
 SCALE 1 : 200

LAMACOID NAMEPLATE (MECHANICALLY ATTACHED) TO READ AS FOLLOWS:

DANGER WHEN OPERATING EQUIPMENT, APPROVED RECEPTACLES, CORDS, PLUGS AND OVERCURRENT DEVICES MUST BE USED AS PER RECEPTACLE SIZE.

15A, 125V MARINE GRADE STRAIGHT BLADE DUPLEX RECEPTACLE C/W YELLOW FIBERGLASS TYPE FD BOX C/W WEATHERPROOF COVER C/W MATCHING YELLOW PLUG & YELLOW RUBBER BOOT.

15A, 125V MARINE GRADE TWISTLOCK RECEPTACLE C/W YELLOW FIBERGLASS TYPE FD BOX C/W WEATHERPROOF COVER C/W MATCHING YELLOW PLUG & YELLOW RUBBER BOOT.

30A, 125V MARINE GRADE TWISTLOCK RECEPTACLE C/W YELLOW FIBERGLASS TYPE FD BOX C/W WEATHERPROOF COVER C/W MATCHING YELLOW PLUG & YELLOW RUBBER BOOT.

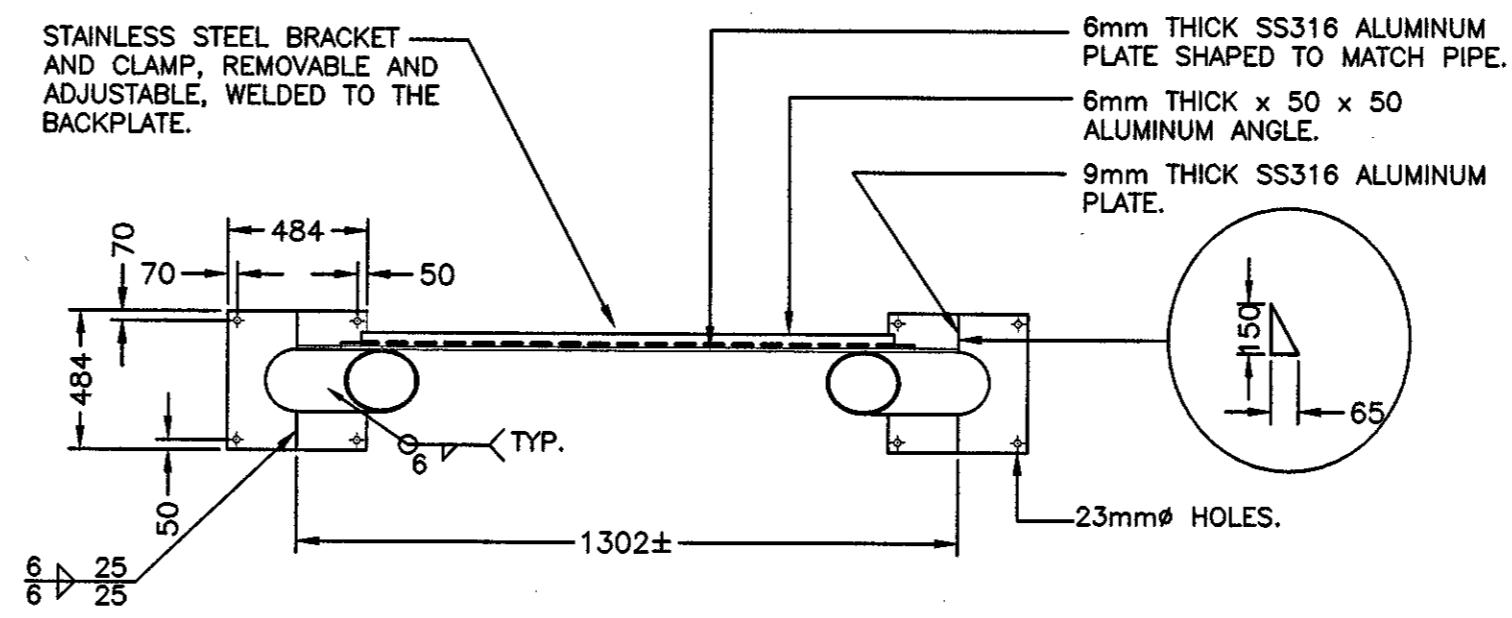
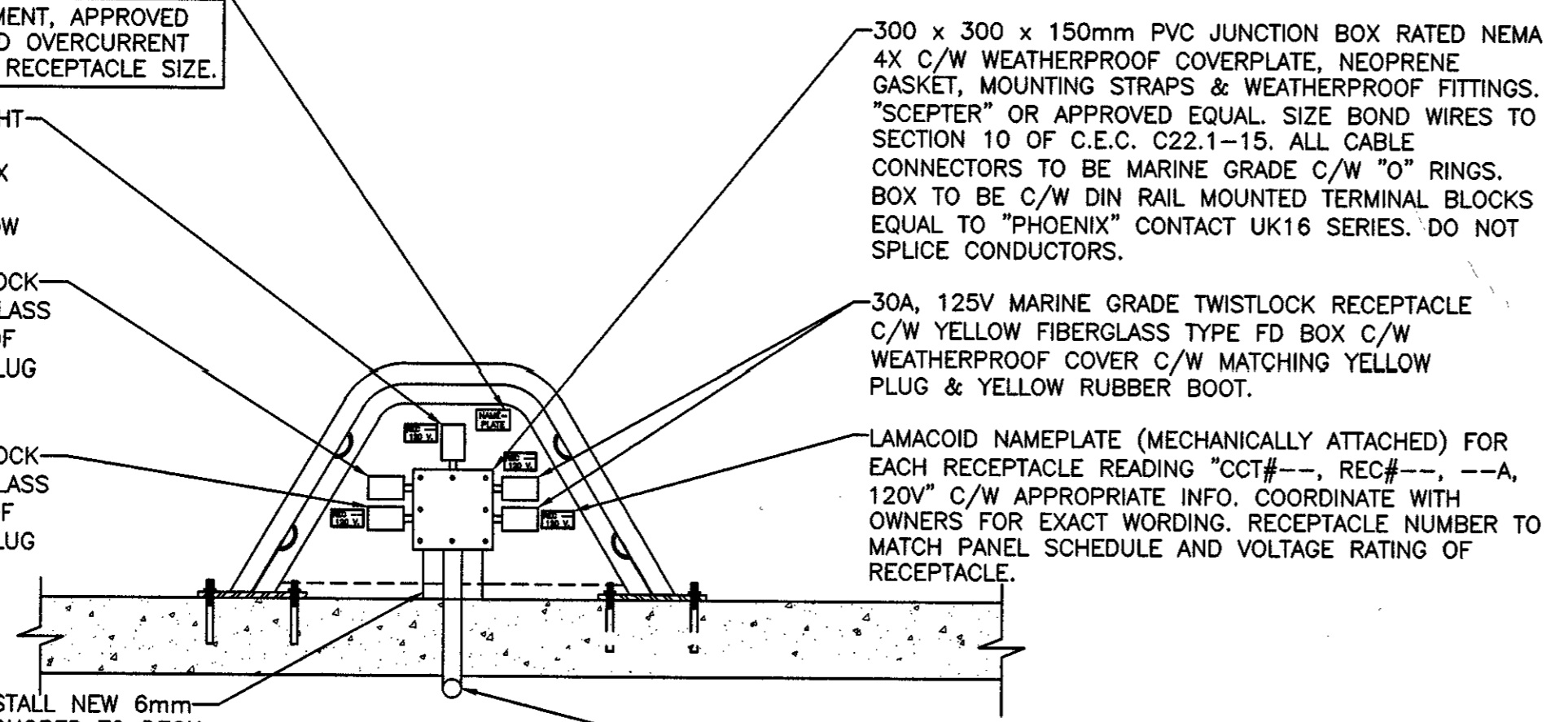
CONTRACTOR TO PROVIDE AND INSTALL NEW 6mm THICK ALUMINUM PIPE GUARD ANCHORED TO DECK & PEDESTAL BACK PLATE USING STAINLESS STEEL SCREWS. SHAPE GUARD TO FIT APPLICATION.

PEDESTAL NOTES:

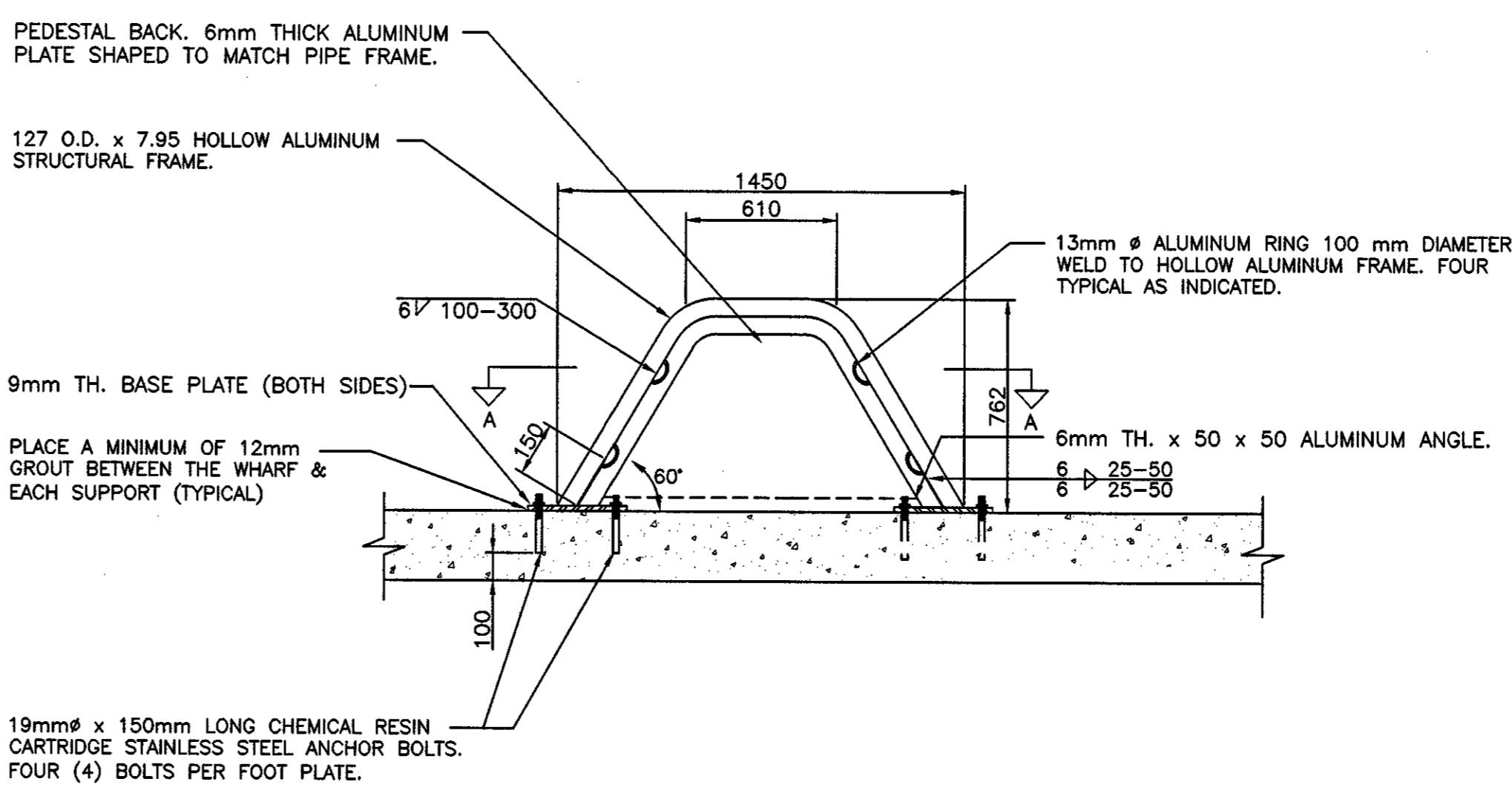
1. REINFORCING OMITTED FOR CLARITY.
2. MOUNT RECEPTACLES IN PVC TYPE FD OUTLET BOX, COVER, GASKET & MOUNTING LUGS, HUBS, WEATHER PROOF FITTINGS, CAST "CROUSE HINDS" OR EQUAL, C/W 20mm
3. PROVIDE ALUMINUM ANGLE MOUNTING BRACKETS WELDED TO THE BACK PLATE, FOR ALL RECEPTACLES.
4. DRILL 9mm DRAINAGE HOLE IN BACK CORNERS OF JUNCTION BOX TO ALLOW FOR DRAINAGE OF WATER.

PEDESTAL BY ELECTRICAL TRADE. SUBMIT SHOP DRAWINGS PRIOR TO MANUFACTURE.

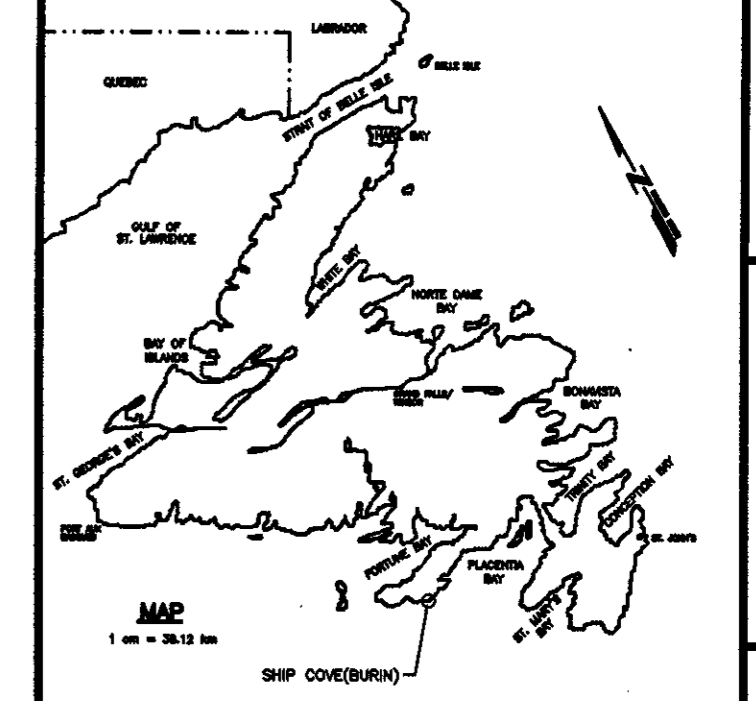
2 NEW ELECTRICAL PEDESTAL CONFIGURATION
 E1|E1 N.T.S.



SECTION A-A



3 TYPICAL ELECTRICAL PEDESTAL CONSTRUCTION
 E1|E1 N.T.S.



Fisheries and Oceans Canada
 Pacific and Oceans Canada

SMALL CRAFT HARBOURS

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 2. ALL ELEVATIONS IN METERS.
 3. DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
 4. ALL WORK TO BE COMPLETED AS PER CANADIAN ELECTRICAL CODE C22.1-15.
 5. THE CONTRACTOR SHALL DETERMINE WHAT SAFETY MEASURES NEED TO BE TAKEN DURING DEMOLITION/CONSTRUCTION ACTIVITIES.
 6. RELIABLE AS-BUILT INFORMATION IS LIMITED. EXISTING WHARF PLANS AND SECTIONS SHOWN FOR INFORMATION ONLY. CONTRACTOR TO BASE COSTS FOR DEMOLITION AND ASSOCIATED RISKS ACCORDINGLY.
 7. CONTRACTOR TO REINSTATE TO ORIGINAL CONDITION, ANY DAMAGE DONE TO AREAS OUTSIDE THE LIMIT OF CONTRACT DURING DEMOLITION, REMOVAL AND CONSTRUCTION.
 8. THE AMOUNT OF WORK SPACE AT THE PROJECT SITE IS LIMITED. DISRUPTION TO EXISTING COMMERCIAL ACTIVITY MUST BE MINIMIZED & UNOBSTRUCTED. ACCESS MUST BE MAINTAINED TO THE EXISTING STRUCTURE DURING CONSTRUCTION. CONTRACTOR TO ARRANGE FOR SUFFICIENT SPACE ADJACENT TO PROJECT SITE FOR CONDUCT OF OPERATIONS, STORAGE OF MATERIALS & SO ON.
 9. EXERCISE CARE SO AS NOT TO OBSTRUCT OR DAMAGE PUBLIC OR PRIVATE PROPERTY IN AREA. REPAIR ANY DAMAGES TO SUCH PROPERTY TO ORIGINAL CONDITION. ALL ARRANGEMENTS FOR SPACE & ACCESS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

NOTES (CONT'D)

10. CONTRACTOR TO RUN THE FOLLOWING FOR PEDESTAL #3:
 RUN FOUR(4) #4 RW90 FOR THREE(3) 30A 120V RECEPTACLES, THREE(3) #8 RW90 FOR TWO(2) 15A 120V RECEPTACLE, TWO(2) #4 RW90 SPARES, AND ONE(1) #6 TW BOND IN NEW (AND EXISTING) 53mm CONDUIT RUN TO PEDESTAL.
11. CONTRACTOR TO RUN THE FOLLOWING FOR PEDESTAL #4:
 RUN FOUR(4) #4 RW90 FOR THREE(3) 30A 120V RECEPTACLES, THREE(3) #8 RW90 FOR TWO(2) 15A 120V RECEPTACLE, TWO(2) #4 RW90 SPARES, AND ONE(1) #6 TW BOND IN NEW (AND EXISTING) 53mm CONDUIT RUN TO PEDESTAL.
12. ALL CONDUITS ARE EXISTING IN DECKING FROM LOCATIONS ON WHARF TO GRAVEL AREA, AND FROM HARBOUR AUTHORITY BUILDING TO GRAVEL AREA (2 CONDUITS ONLY). CONTRACTOR TO EXTEND/JOIN CONDUITS AS REQUIRED TO MAKE FINAL CONNECTIONS.
13. CONTRACTOR IS RESPONSIBLE FOR ALL NEW ITEMS OTHER THAN NOTED LIGHTS AND ARMS, EXISTING LIGHT POLE, AS WELL AS LENGTHS OF EXISTING CONDUIT INSTALLED IN DECKING.
14. PRIOR TO EXCAVATION, CONTRACTOR TO LOCATE TWO EXISTING CONDUITS TO CONFIRM THEY ARE ACCESSIBLE IN THE ROADWAY AND NOT BURIED IN DECKING. IN THE EVENT THAT THE CONDUITS ARE NOT ACCESSIBLE, PROVIDE AND INSTALL TWO NEW CONDUITS IN NEW TRENCH FOR MARGINAL WHARF ELECTRICAL.
15. FOUR NEW LIGHT FIXTURES ARE C/W PHOTOCELLS. ENSURE THAT LIGHTS ARE TIED INTO EXISTING LIGHTING CONTRACTOR PANEL LOCATED INSIDE SHED ALONGSIDE EXISTING PANEL.
16. CONDUITS FROM THE EXISTING LIGHTING CONTRACTOR PANEL TO BE EMT. CONTRACTOR TO MAKE AN ALLOWANCE FOR A NEW CONTACTOR FOR NEW MARGINAL WHARF LIGHTS.

STAMP

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
 THIS PERMIT ALLOWS
MADERRA ENGINEERING
 To practice Professional Engineering in Newfoundland and Labrador.
 Permit No. as issued by PEGC which is valid for the year **2018**

0	ISSUED FOR TENDER	02/26/16
B	ISSUED FOR 99% REVIEW	02/23/16
A	ISSUED FOR 66% REVIEW	02/11/16

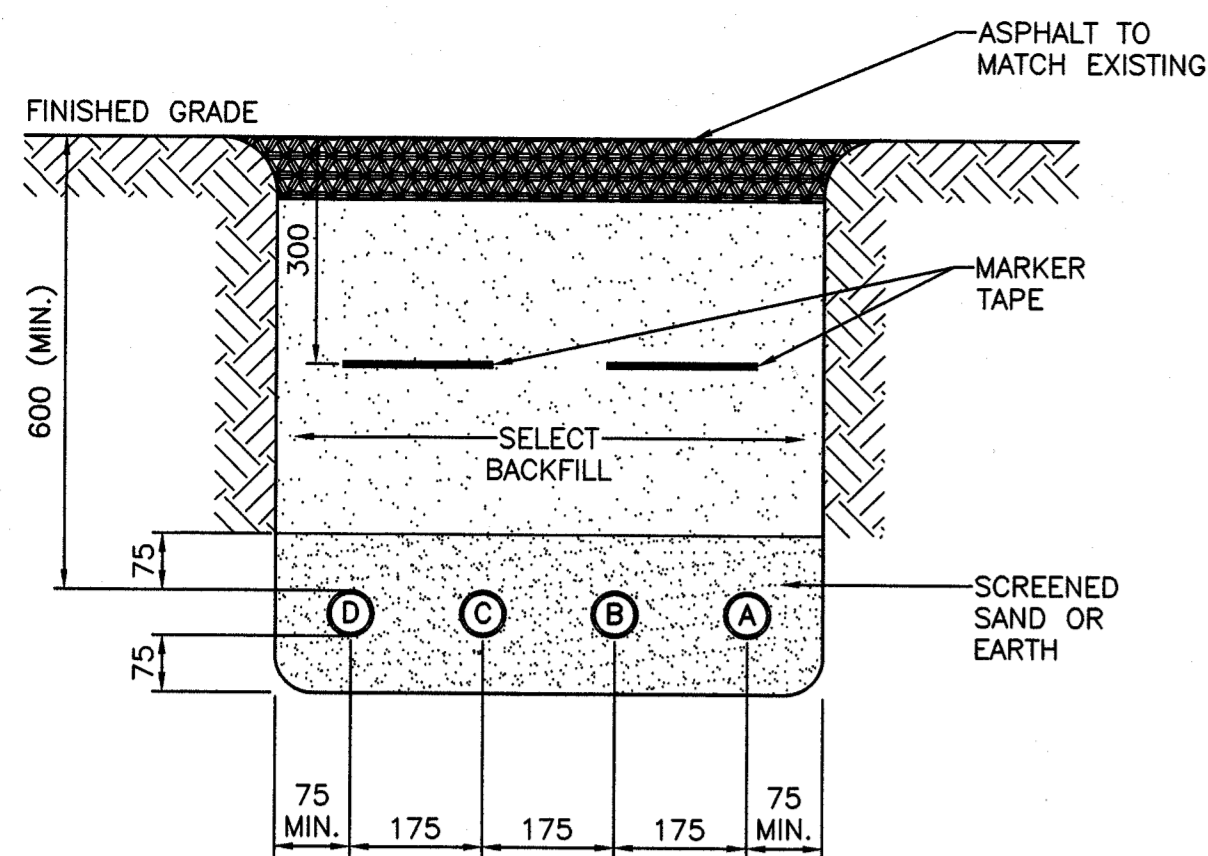
revisions: _____ date: _____
 project: _____ project: _____

ELECTRICAL INSTALLATION
BURIN, NL

drawing: _____ design: _____

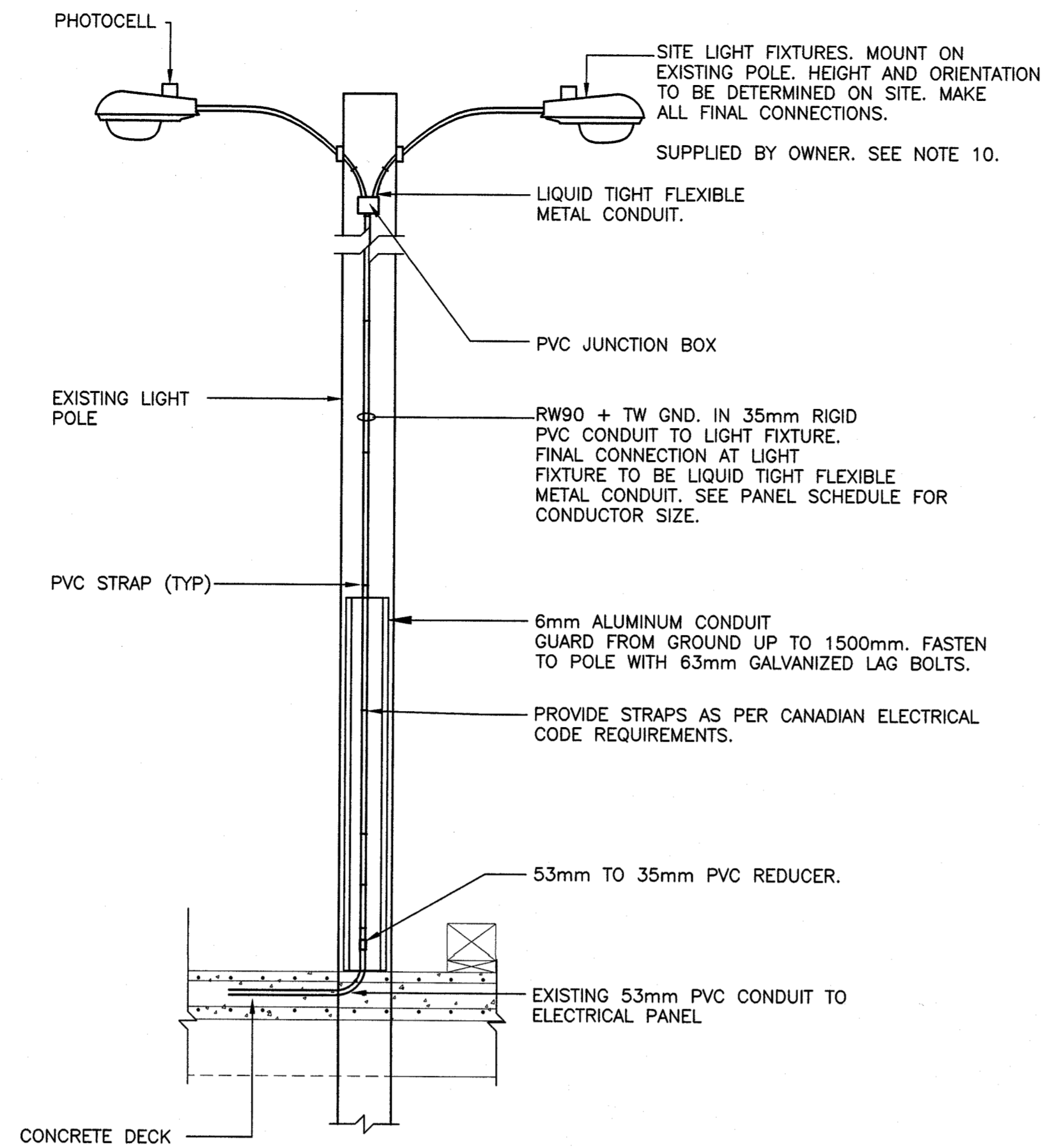
ELECTRICAL SITE PLAN

designed S.MCGUIRE, E.DIETZ concu
 date JANUARY, 2016
 drawn S.MCGUIRE, E.DIETZ desine
 date JANUARY, 2016
 approved R.FROUDE approve
 date FEBRUARY, 2016
 Tender Paul R. Froude Submission
 DFO Project Manager
 project number 721603-004 no. du projet
 drawing no. E1 no. du dessin



1 TRENCH DETAIL
E1/E2 N.T.S.

CONDUIT SCHEDULE		
EQUIPMENT	CONDUIT	CONDUIT SIZE AND WIRING
PEDESTAL #3	(A)	4 #4 RW90 FOR 3 30A 120V + 3 #6 RW90 FOR 2 15A 120V + 2 #4 RW90 SPARES + 1 #6 TW BOND IN 53mm RIGID PVC CONDUIT
LIGHT POLE #3	(B)	2 #12 RW90 + 1 #12 TW BOND IN 53mm RIGID PVC CONDUIT
PEDESTAL #4	(C)	4 #4 RW90 FOR 3 30A 120V + 3 #6 RW90 FOR 2 15A 120V + 2 #4 RW90 SPARES + 1 #6 TW BOND IN 53mm RIGID PVC CONDUIT
LIGHT POLE #4	(D)	2 #12 RW90 + 1 #12 TW BOND IN 53mm RIGID PVC CONDUIT



2 LIGHT POLE DETAIL
E1/E2 N.T.S.

LOCATION: EXISTING HARBOUR AUTHORITY SHED

PANEL EXISTING WHARF PANEL **PANEL SCHEDULE**

TYPE 42 CIRCUIT SURFACE CABINET - TOP ENTRY

RATING 120/208V, 3PH., 4W., 250 AMP, 200A MAIN BREAKER

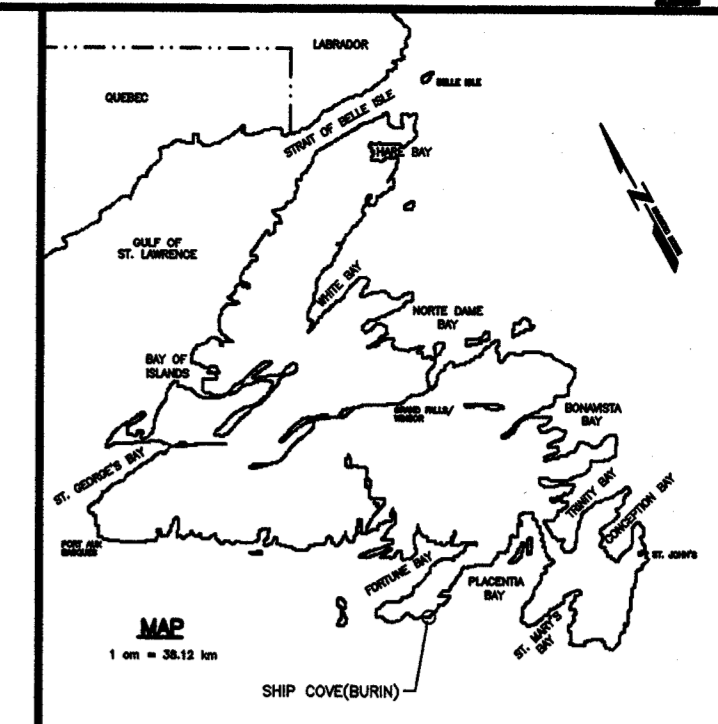
STANDARD OF ACCEPTANCE SIEMENS P1

MINIMUM INTERRUPTING CAPACITY 22000 R.M.S. SYMM AMPERES

NOTES * - NEW BREAKERS TO HAVE A M.I.C RATING TO MATCH EXISTING. ** - GFI BREAKER

CIRCUIT DESCRIPTION	LOAD WATTS	WIRE SIZE	BRKR SIZE	CIRCUIT NO.	BRKR SIZE	WIRE SIZE	LOAD WATTS	CIRCUIT DESCRIPTION
EXISTING BUILDING LIGHTS			15	1 2	15			EXISTING POLE LIGHTS
EXISTING EXT. GFI RECEPTACLE			15	3 4	15			EXISTING INTERIOR RECEPTACLE
EXISTING LIGHTING CONTACTOR			15	5 6	15			EXISTING BASEBOARD HEATER
SPARE			15	7 8	15			
EXISTING PEDESTAL #1 RECEPTACLE			30	9 10	30			EXISTING PEDESTAL #2 RECEPTACLE
EXISTING PEDESTAL #1 RECEPTACLE			30	11 12	30			EXISTING PEDESTAL #2 RECEPTACLE
EXISTING PEDESTAL #1 RECEPTACLE			30	13 14	30			EXISTING PEDESTAL #2 RECEPTACLE
EXISTING PEDESTAL #1 RECEPTACLE			15	15 16	15			EXISTING PEDESTAL #2 RECEPTACLE
EXISTING EMERGENCY LIGHT			15	17 18	15			EXISTING LOAD
EXISTING LOAD			15	19 20	30	4	2880	PEDESTAL #3 - RECEPTACLE #1 *
EXISTING LOAD			15	21 22	30	4	2880	PEDESTAL #3 - RECEPTACLE #2 *
EXISTING LOAD			30	23 24	30	4	2880	PEDESTAL #3 - RECEPTACLE #3 *
EXISTING LOAD			25 26	15**	8	1440	PEDESTAL #3 - RECEPTACLE #4 *	
EXISTING LOAD			27 28	15**	8	1440	PEDESTAL #3 - RECEPTACLE #5 *	
LIGHTING - LIGHT POLE #3, #4 *	600	12	15	29 30	30	4	2880	PEDESTAL #4 - RECEPTACLE #1 *
				31 32	30	4	2880	PEDESTAL #4 - RECEPTACLE #2 *
				33 34	30	4	2880	PEDESTAL #4 - RECEPTACLE #3 *
				35 36	15**	6	1440	PEDESTAL #4 - RECEPTACLE #4 *
				37 38	15**	6	1440	PEDESTAL #4 - RECEPTACLE #5 *
				39 40				
				41 42				

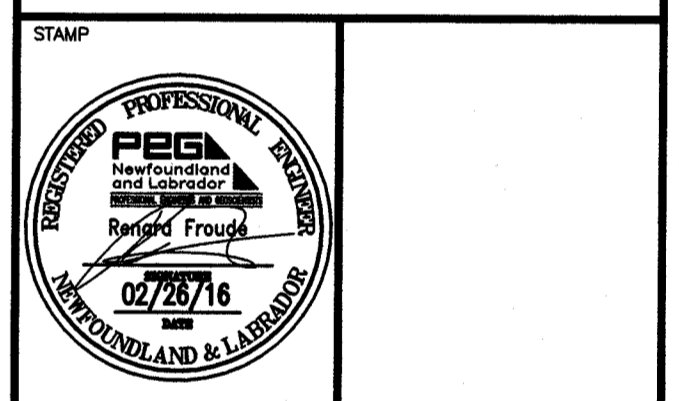
1. PROVIDE UPDATED TYPE WRITTEN DIRECTORY.



Fisheries and Oceans Canada
Pêches et Océans Canada

SMALL CRAFT HARBOURS

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PROVINCE OF NEWFOUNDLAND AND LABRADOR

PERMIT HOLDER
THIS PERMIT ALLOWS

MADERRA ENGINEERING

To practice Professional Engineering in Newfoundland and Labrador:
Permit No. as issued by PEG **Y0253**
which is valid for the year **2016**

NOTES (CONT'D)

- LIGHTING AND MOUNTING ARMS SUPPLIED BY DFO. CONTRACTOR TO PICK UP AT DFO WAREHOUSE, 121 GLENCOE DRIVE, MT. PEARL. COORDINATE WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO PICK UP. CONTACT DION UPWARD AT 763-5689.
- ALL CONDUITS ARE EXISTING IN DECKING FROM LOCATIONS ON WHARF TO GRAVEL AREA, AND FROM HARBOUR AUTHORITY BUILDING TO GRAVEL AREA (2 CONDUITS ONLY). CONTRACTOR TO EXTEND/JOIN CONDUITS AS REQUIRED TO MAKE FINAL CONNECTIONS.
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O	ISSUED FOR TENDER	02/26/16
B	ISSUED FOR 99% REVIEW	02/23/16
A	ISSUED FOR 66% REVIEW	02/11/16

revisions

project

ELECTRICAL INSTALLATION

BURIN, NL

designed S.MCGUIRE, E.DIETZ concu

date JANUARY, 2016

drawn S.MCGUIRE, E.DIETZ dessine

date JANUARY, 2016

approved R.FROUDE approve

date FEBRUARY, 2016

Tender *[Signature]* Submission

DFO Project Manager

project number no. du projet

721603-004

drawing no. no. du dessin

E2