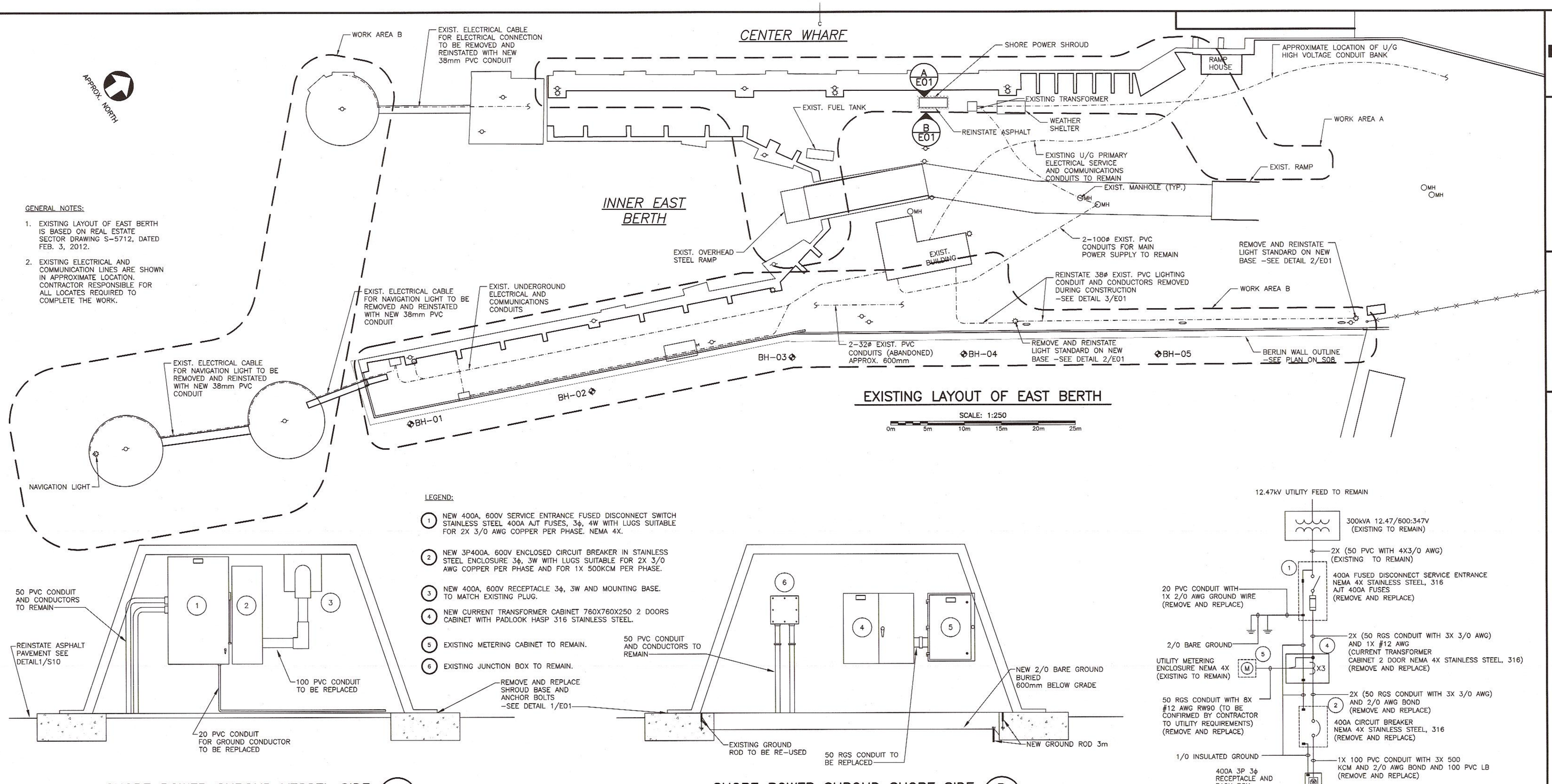


EXISTING LAYOUT OF EAST BERTH

SCALE: 1:250

GENERAL NOTES:

1. EXISTING LAYOUT OF EAST BERTH IS BASED ON REAL ESTATE SECTOR DRAWING S-5712, DATED FEB. 3, 2012.
2. EXISTING ELECTRICAL AND COMMUNICATION LINES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR RESPONSIBLE FOR ALL LOCATES REQUIRED TO COMPLETE THE WORK.

LEGEND:

- EXIST. MOORING BOLLARD
- EXIST. MOORING CLEAT
- EXIST. LIGHT STANDARD
- EXIST. ELECTRICAL OR COMMUNICATION CONDUIT
- MH EXIST. MANHOLE
- EXIST. CHAINLINK FENCE
- SCOPE OF WORK

LEGEND:

1. NEW 400A, 600V SERVICE ENTRANCE FUSED DISCONNECT SWITCH STAINLESS STEEL 400A AJT FUSES, 3ϕ, 4W WITH LUGS SUITABLE FOR 2X 3/0 AWG COPPER PER PHASE. NEMA 4X.
2. NEW 3P400A, 600V ENCLOSED CIRCUIT BREAKER IN STAINLESS STEEL ENCLOSURE 3ϕ, 3W WITH LUGS SUITABLE FOR 2X 3/0 AWG COPPER PER PHASE AND FOR 1X 500KCM PER PHASE.
3. NEW 400A, 600V RECEPTACLE 3ϕ, 3W AND MOUNTING BASE. TO MATCH EXISTING PLUG.
4. NEW CURRENT TRANSFORMER CABINET 760X760X250 2 DOORS CABINET WITH PADLOOK HASP 316 STAINLESS STEEL.
5. EXISTING METERING CABINET TO REMAIN.
6. EXISTING JUNCTION BOX TO REMAIN.

SHORE POWER SHROUD VESSEL SIDE A/E01

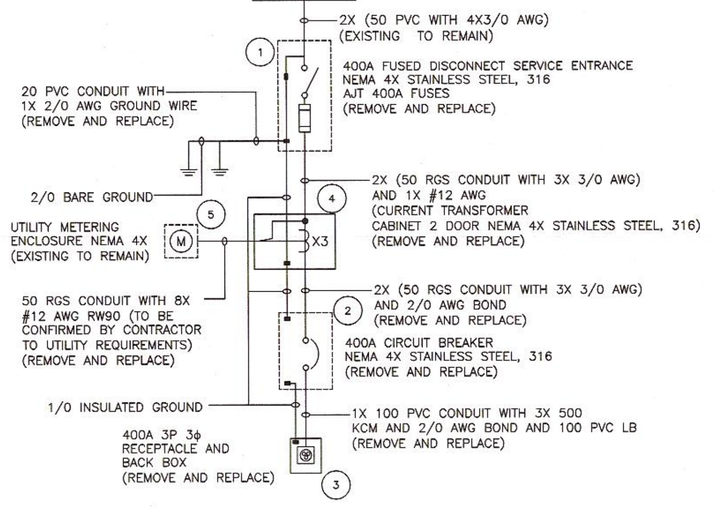
SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm

SHORE POWER SHROUD SHORE SIDE B/E01

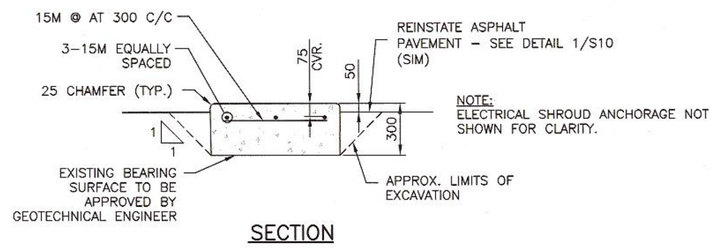
SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm

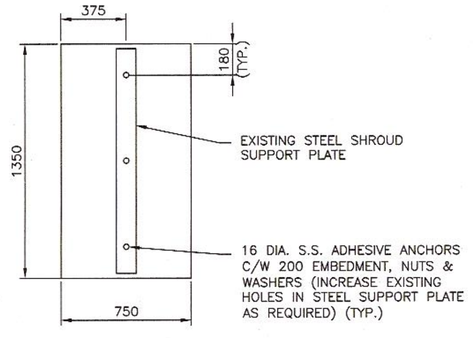


SINGLE LINE DIAGRAM

SCALE : N.T.S.



SECTION

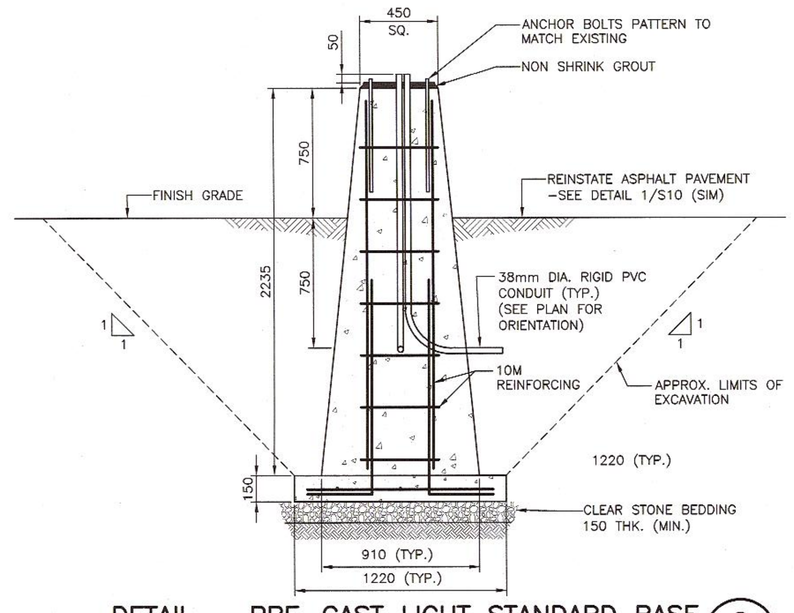


PLAN

DETAIL - ELECTRICAL SHROUD FOUNDATION 1/E01

SCALE : 1:20

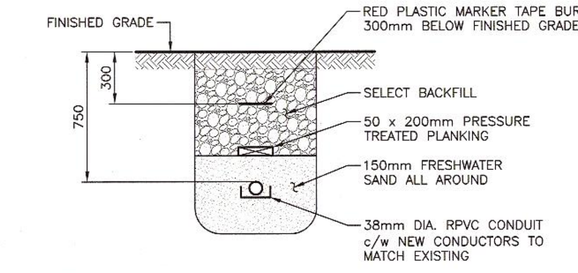
0mm 500mm 1000mm 1500mm 2000mm 2500mm



DETAIL - PRE-CAST LIGHT STANDARD BASE 2/E01

SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm



NOTES:

1. USE LONG SWEEP ELBOWS AT ALL LOCATIONS UNDERGROUND WHERE RPVC CONDUITS CHANGE DIRECTION AT 90 DEGREE ANGLES.

DETAIL - UNDERGROUND ELECTRICAL 3/E01

SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm

SCOPE OF WORK

1. CONTRACTOR TO REMOVE EXISTING 400A DISCONNECT, 400A CIRCUIT BREAKER, 400A RECEPTACLE, CURRENT TRANSFORMER CABINET, ALL CONDUCTORS(POWER, BONDING AND GROUNDING) AND ALL CONDUIT BETWEEN THE 400A FUSED DISCONNECT AND THE 400A PLUG AND REPLACE WITH NEW. ALL NEW CONDUCTORS TO BE COPPER.
2. CONTRACTOR TO COORDINATE THIS WORK WITH THE LOCAL UTILITY TO FACILITATE THE REPLACEMENT OF THE EQUIPMENT AND THE TRANSFER OF UTILITY EQUIPMENT TO THE NEW CURRENT TRANSFORMER CABINET.
3. CONTRACTOR TO USE ALL 316 STAINLESS STEEL HARDWARE FOR EQUIPMENT AND CONDUIT #3/0 MOUNTING.
4. CONTRACTOR MAY REPLACE EXISTING EQUIPMENT WITH SAME OR ALTERNATE VENDOR. CONTRACTOR IS RESPONSIBLE TO DETERMINE NEW LAYOUT AND FOR VERIFICATION THAT ALL EQUIPMENT FITS IN EXISTING MOUNT IF ALTERNATE EQUIPMENT IS SELECTED.
5. CONTRACTOR TO SUPPLY AND INSTALL NEW GROUND ROD AND 2/0 BARE CONDUCTOR INTERCONNECTING IT TO EXISTING ROD BURIED 600mm BELOW GRADE. CONTRACTOR TO REINSTATE SURFACE AFTER CONDUCTOR INSTALLATION.
6. CONTRACTOR TO REMOVE EXISTING AND INSTALL NEW BASES FOR SHROUD COMPLETE WITH NEW STAINLESS STEEL ANCHOR BOLTS. REINSTATE ASPHALT AROUND NEW BASES.
7. REMOVE TWO (2) LIGHT STANDARDS AND REINSTATE STANDARDS IN NEW BASES.
8. SUPPLY AND INSTALL NEW 38MM PVC CONDUIT, CONDUCTORS, AND GROUND FROM THE EXISTING BUILDING TO BOTH LIGHT STANDARDS IN WORK AREA B TO REINSTATE CONDUIT, CONDUCTOR, AND GROUND THAT IS REMOVED OR DAMAGED DURING CONSTRUCTION AND TO FEED THE EXISTING LIGHT STANDARDS THROUGH THE NEW BASES. NUMBER AND SIZE OF CONDUCTORS AND GROUND TO MATCH EXISTING.
9. PROVIDE TEMPORARY LIGHTING FOR TERMINAL OPERATIONS DURING LIGHT BASE REPLACEMENT.
10. REINSTATE EXISTING TECK CABLE TO AND ON THE THREE DOLPHINS IN NEW 38mm PVC CONDUIT SECURED TO STRUCTURE WITH CLAMPS AS REQUIRED,

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND
VALID FOR THE YEAR 2016
Randy O'Connor
No. 1275
DATE: JUL 29/16
LICENSED PROFESSIONAL ENGINEER PROVINCE OF PRINCE EDWARD ISLAND

revisions		date
1	RE-ISSUED FOR TENDER	JUL 28 2016
0	ISSUED FOR TENDER	JUL 7 2016
A	ISSUED FOR 99% REVIEW	MAY 31 2016

project / projet

FERRY TERMINAL INFRASTRUCTURE REHABILITATION-PHASE 2 WOOD ISLANDS, QUEEN'S COUNTY, PEI

drawing / dessin

ELECTRICAL SITE PLAN AND DETAILS

designed R. THORPE / conçu
date MAY 2016
drawn C. TEJADA / dessiné
date MAY 2016
approved / approuvé
date
Tender / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC
project number / no. du projet
R.071322.001
drawing no. / no. du dessin
E01 of 1

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