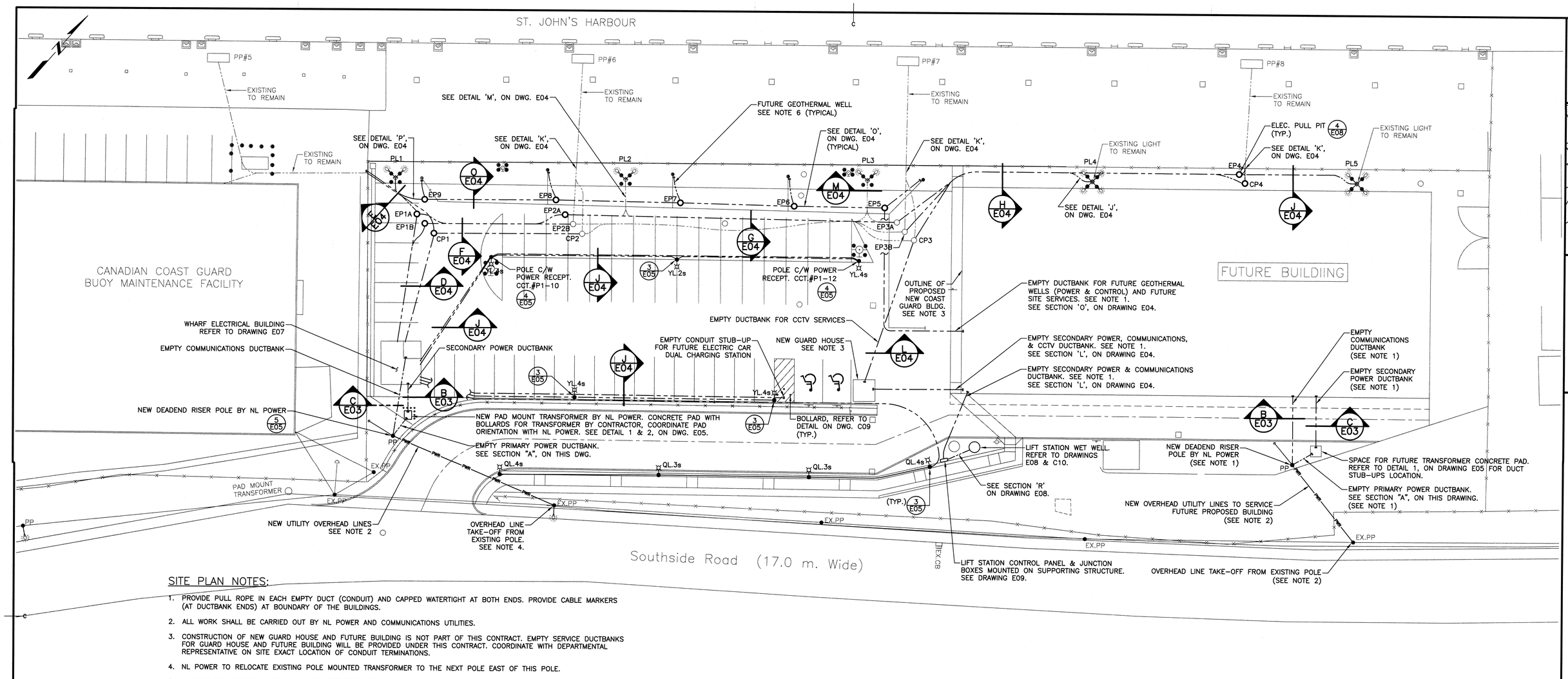


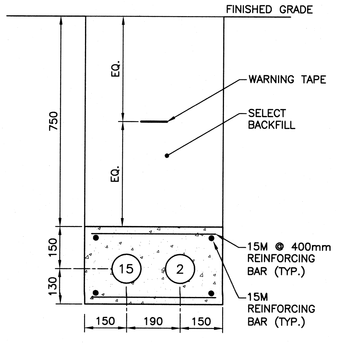
SITE PLAN NOTES:

1. PROVIDE PULL ROPE IN EACH EMPTY DUCT (CONDUIT) AND CAPPED WATERTIGHT AT BOTH ENDS. PROVIDE CABLE MARKERS (AT DUCTBANK ENDS) AT BOUNDARY OF THE BUILDINGS.
2. ALL WORK SHALL BE CARRIED OUT BY NL POWER AND COMMUNICATIONS UTILITIES.
3. CONSTRUCTION OF NEW GUARD HOUSE AND FUTURE BUILDING IS NOT PART OF THIS CONTRACT. EMPTY SERVICE DUCTBANKS FOR GUARD HOUSE AND FUTURE BUILDING WILL BE PROVIDED UNDER THIS CONTRACT. COORDINATE WITH DEPARTMENTAL REPRESENTATIVE ON SITE EXACT LOCATION OF CONDUIT TERMINATIONS.
4. NL POWER TO RELOCATE EXISTING POLE MOUNTED TRANSFORMER TO THE NEXT POLE EAST OF THIS POLE.
5. NUMBER OF CONDUIT BENDS IN A RUN, BETWEEN DRAW-IN POINTS, SHALL NOT EXCEED THE EQUIVALENT OF FOUR 90° BENDS INCLUDING THE BENDS LOCATED AT AN OUTLET OR FITTING.
6. PROVIDE 2 – 27mm RIGID PVC CONDUITS, ONE FOR POWER AND ONE FOR CONTROL. RUN CONDUITS TO PROPOSED LOCATIONS OF FUTURE WELLS, REFER TO SECTION 'N', ON DRAWING E04. PROVIDE PULL ROPE IN EACH EMPTY DUCT (CONDUIT) AND CAP WATERTIGHT AT BOTH ENDS.
7. CONTRACTOR MAY RE-USE EXISTING DUCTBANKS WHERE PRACTICAL AND THEY ARE IN GOOD CONDITION.
8. REFER TO DRAWING E08 FOR SITE TYPICAL ELECTRICAL DETAILS. REFER TO STRUCTURAL DRAWINGS S01 & S04 FOR LIGHT STANDARD CONCRETE BASE DETAILS.

ELECTRICAL NEW SITE PLAN

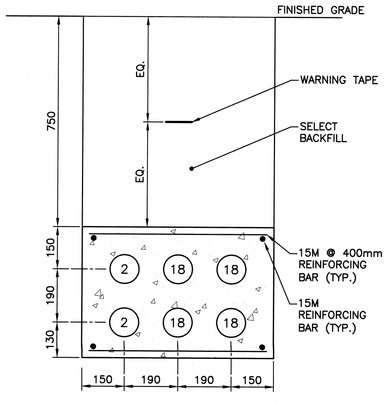
SCALE: 1:250

0m 5m 10m 15m 20m 25m



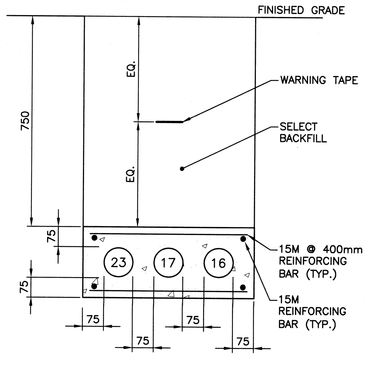
PRIMARY DUCTBANK TO PAD MOUNT (A E03)

SCALE : N.T.S.



SECONDARY DUCTBANK TO SWITCHBOARD (B E03)

SCALE : N.T.S.



COMMUNICATIONS DUCT FROM POLE (C E03)

SCALE : N.T.S.

0 10 20mm 40 60 80 100 120 140 160 180 200mm

DUCT #	DUCT SIZE	DESCRIPTION
1	53mm	FIBER CABLES TO POWER PEDESTAL.
2	103mm	SPARE POWER DUCT.
3	53mm	POWER TO 5kVA TRANSFORMERS AT POWER PEDESTALS.
4	53mm	POWER TO AREA LIGHTING.
5	103mm	POWER TO POWER PEDESTAL #5.
6	103mm	POWER TO POWER PEDESTAL #6.
7	103mm	POWER TO POWER PEDESTAL #7.
8	103mm	POWER TO POWER PEDESTAL #8.
9	103mm	SPARE
10	53mm	CONDUIT FOR CABLE TV TO POWER PEDESTAL. CABLES BY UTILITY.
11	53mm	FIBER CABLES FROM BMF TO NEW GUARD HOUSE.
12	53mm	TELEPHONE TO POWER PEDESTAL.
13	53mm	CONDUIT FOR CCTV.
14	53mm	SPARE
15	103mm	PRIMARY POWER TO PAD MOUNT TRANSFORMER.
16	103mm	TELECOM TO ELECTRICAL BUILDING. CABLES BY UTILITY.
17	103mm	SPARE TELECOM DUCT.
18	103mm	SECONDARY POWER FROM PAD MOUNT TO SWITCHBOARD.
19	53mm	TELEPHONE TO COMMISSIONAIRES BUILDING.
20	53mm	FIRE ALARM / CCTV COAX CABLES TO COMMISSIONAIRES BLDG.
21	53mm	POWER TO COMMISSIONAIRES BUILDING.
22	53mm	SPARE POWER DUCT.
23	103mm	CABLE TV TO ELECTRICAL BUILDING. CABLES BY UTILITY.
24	53mm	POWER FOR FUTURE GEOTHERMAL WELLS
25	53mm	CONTROL FOR FUTURE GEOTHERMAL WELLS
26	53mm	FIBER CABLES FROM BMF TO ELECTRICAL BUILDING

DUCTBANK NOTES:

1. CONCRETE TO HAVE A 28 DAY SPECIFIED STRENGTH OF 20MPa WITH MAXIMUM AGGREGATE SIZE OF 20mm AND MAXIMUM SLUMP OF 75mm.
2. CONCRETE ENCASED DUCTS SHALL BE SUPPORTED BY APPROVED SPACERS PLACED AT 1200mm INTERVALS. NO WIRES OR METAL TIES ARE TO BE USED.
3. ALL FITTINGS, COUPLINGS, ETC. ARE TO BE SOLVENT WELD.
4. SPARE DUCTS SHALL BE INSTALLED AS REQUIRED.
5. ELECTRICAL DUCT SHALL BE PVC TYPE DB-2 OR APPROVED EQUIVALENT.
6. ENTIRE LENGTH OF DUCTS SHALL BE ENCASED IN AT LEAST A 75mm ENVELOPE OF POURED CONCRETE.
7. SECTIONS ILLUSTRATE SUGGESTED ARRANGEMENT OF DUCTS. CONTRACTOR MAY CHANGE THIS ARRANGEMENT TO SUIT SITE CONDITION UPON APPROVAL BY ENGINEER.

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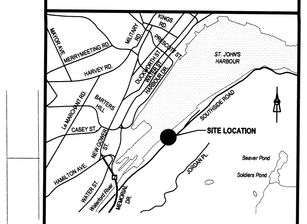

KEYPLAN: N.T.S.

SNC·LAVALIN

PROVINCE OF NEWFOUNDLAND PERMIT HOLDER CLASS "A"
This Permit Allows
SNC-LAVALIN Inc.
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by PEGNL NO450 which is valid for the year 2015.

REGISTERED PROFESSIONAL ENGINEER — PEGNL Newfoundland and Labrador — ZIAD H. EL-JERDI — SIGNATURE — March 31, 2014 — DATE — NEWFOUNDLAND & LABRADOR

C02	ISSUED FOR TENDER	24 Feb 2015
revisions		date

project / projet
CANADIAN COAST GUARD SOUTHSIDE BASE SITE DEVELOPMENT AND SERVICES ST. JOHN'S, NL

drawing / dessin
ELECTRICAL NEW SITE PLAN

designed Z.E./Z.G. / conçu
date 2013-08-29
drawn STAFF / dessiné
date 2013-08-29
approved / approuvé
date
Tender / Soumission
PWGSC Project Manager: Victoria Warford 2015-02-25 Administrateur de projets TPSGC
project number / no. du projet
R.053663.006
drawing no. / no. du dessin
E03

512652-0001-D-EL-DWG-0013-01

PWGSC B1 (2004)

E-DRM/GDD-E: # Ver. 1