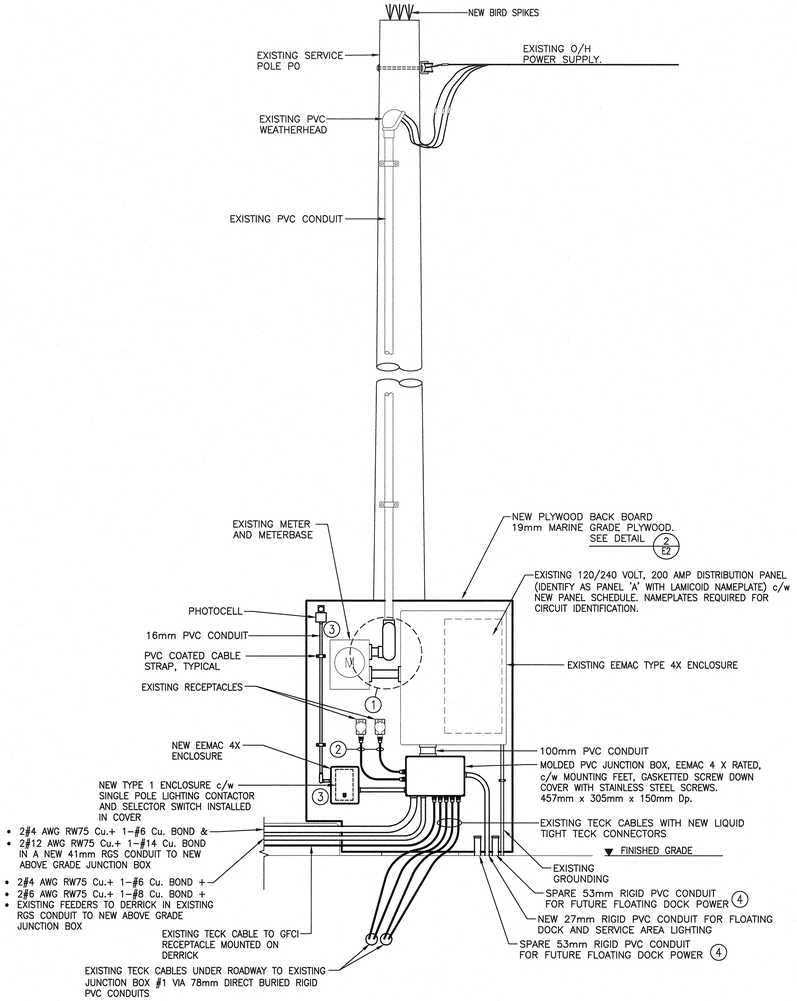


NEW SERVICE BACKBOARD ON POLE P0 — 1 / E1 E2

SCALE : 1:20

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

NOTES:

1. NEW PVC CONDUIT AND 'LL' ACCESS FITTING, SIZED AS PER EXISTING
2. NEW TECK CABLE AND LIQUID TIGHT TECK CONNECTORS, SIZED TO SUIT EXISTING RECEPTACLES.
3. NEW LIGHTING CONTACTOR AND PHOTO CELL TO REPLACE NSPI LIGHTING DISCONNECT SWITCH FOR CONTROL OF NEW WHARF LIGHTS.
4. ALL SPARE CONDUITS TO BE STUBBED UP 150mm A.F.G. AND CAPPED c/w NYLON PULL CORD.

VOLTS 120/240 — PANEL PANEL A (EXISTING) — TYPE 1
PHASE 1 — LOCATION WHARF — MAINS 250 AMPS
WIRE 3 — FED FROM NSPI TRANSFORMER — MAIN BREAKER 200 AMPS
BRANCH BREAKER I.C. 10kA MTG. S

NOTES	DESIGNATION	KW A	KW B	WIRE SIZE	CIR NO.	BKR	A	B	BKR	CIR NO.	WIRE SIZE	KW A	KW B	DESIGNATION	NOTES
	SPACE				1					2				SPACE	
	SPACE				3					4				SPACE	
	SPACE				5					6				SPACE	
	SPACE				7					8				SPACE	
	SPACE				9					10				SPACE	
1./4.	20A TL RECEPTACLE @ NEW PP3		1.92	12/4/12	11	20A				12				SPACE	
3.	30A TL RECEPTACLE @ POLE P2	2.88			13	30A				14				SPACE	
2.	WHARF LIGHTING		1.176	12	15	15A				16				SPACE	
2.	FLOATING DOCK LIGHTING	0.708		12	17	15A				18				SPACE	
3.	20A TL RECEPTACLE @ PP1		1.92		19	20A				20				SPACE	
3.	20A TL RECEPTACLE @ PP2	1.92			21	20A			20A	22		1.92		20A TL RECEPTACLE @ POLE P3	3.
3.	20A DUPLEX GFCI RECEPTACLE @ DERRICK		1.92		23	20A			20A	24			1.92	20A DUPLEX RECEPTACLE @ POLE P3	3.
3.	20A TL RECEPTACLE @ PANEL	1.92			25	20A			20A	26		1.92		20A DUPLEX RECEPTACLE @ POLE P2	3.
3.	30A TL RECEPTACLE @ PANEL		2.88		27	30A			20A	28			1.92	20A TL RECEPTACLE @ POLE P2	3.
3.	DERRICK	1.194			29	2P			20A	30		1.92		20A DUPLEX RECEPTACLE @ POLE P1	3.
					31	30A			20A	32			1.92	20A TL RECEPTACLE @ POLE P1	3.

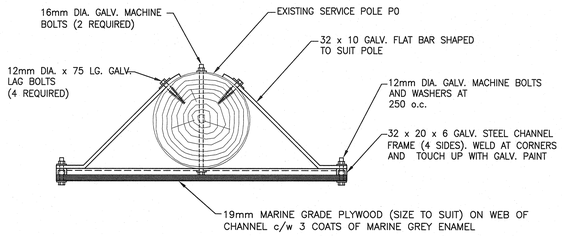
ø "A" TOTAL 14.121 KW

ø "B" TOTAL 15.837 KW

TOTAL LOAD 29.958 KW 124.825 AMPS @ 240V

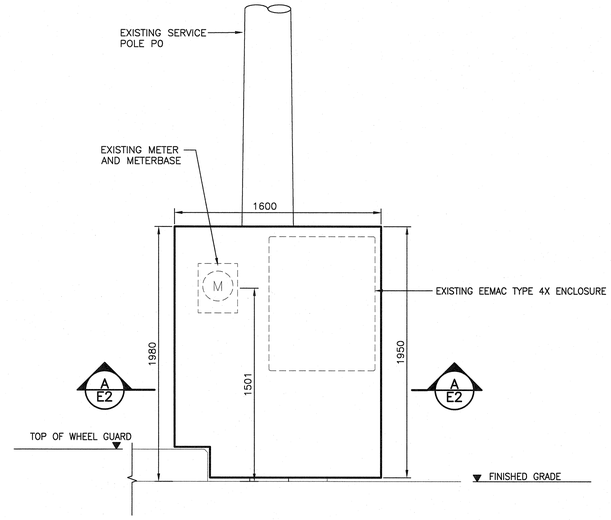
NOTES:
1. SUPPLY AND INSTALL NEW 1P,20A BREAKER IN EXISTING SPACE.
2. REMOVE EXISTING 1P,20A BREAKER. SUPPLY AND INSTALL NEW 1P,15A BREAKER.
3. EXISTING BREAKER FEEDING AN EXISTING LOAD.
4. CIRCUIT CONDUCTORS TO INCREASE IN SIZE TO ALLOW FOR VOLTAGE DROP

FEEDER EXISTING



SECTION – PLYWOOD BACKBOARD POLE P0 — A / E2

SCALE : N.T.S.



BACKBOARD STRUCTURAL DETAIL — 2 / E2

SCALE : 1:20

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

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS.

LOAD CALCULATION (DEMAND)

1. RECEPTACLE LOAD (CEC 78–056)
   - 2 – 120V, 30 AMP TWIST LOCK RECEPTACLES – EXISTING
   - 6 – 120V, 20 AMP TWIST LOCK RECEPTACLES – EXISTING
   - 1 – 120V, 20 AMP TWIST LOCK RECEPTACLE – NEW
   - 4 – 120V, 20 AMP GFCI DUPLEX RECEPTACLES – EXISTING

   - (2 x 30A x 120) 100% = 7.200 kW
   - (2 x 20A x 120) 100% = 4.800 kW
   - (4 x 20A x 120) 65% = 6.240 kW
   - (1 x 20A x 120) 50% = 1.200 kW
   - (4 x 20A x 120) 50% = 4.800 kW

   SUBTOTAL = 24.240 kW

2. WHARF LIGHTING
   - 7 – 168 WATT AREA LIGHTS = 5 x 168 = 1.176kw
   - 4 – 177 WATT FLOOD LIGHTS = 4 x 177 = 0.708 kW

   SUBTOTAL = 1.884 kW

3. DERRICK (NON–CONTINUOUS LOAD)
   - 1 x 2.0HP x 746W = 1.492 kW x 80%

   SUBTOTAL = 1.194 kW

4. LIGHTING CONTACTOR = 0.500kW

TOTAL LOAD = 24.240 kW + 1.884 kW + 1.194 kW + 0.500 kW = 27.818 kW

TOTAL = 27.818 kW @ 240 VOLTS x 1.25 = 34.7725 kVA
SERVICE LOADING = 34.7725 kVA/240 VOLTS = 144.8854 AMPS

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

revisions		date
0	ISSUED FOR TENDER	APR. 2017

project / projet

WHARF EXTENSION

EASTERN PASSAGE
HALIFAX COUNTY
NOVA SCOTIA

drawing / dessin

MAIN SERVICE DETAILS AND PANEL SCHEDULE

designed G. BOWSER — concu
date MARCH 2017
drawn K. WOLFE — dessiné
date MARCH 2017
approved — approuvé
date March 29/17
Tender — Soumission
PWGSC Project Manager — Administrateur de projets TPSGC
project number / no. du projet: R.082417.001
drawing no. / no. du dessin: E2

PWGSC B1 (2004)

E-DRM/GDD-E: 544873 Version 1