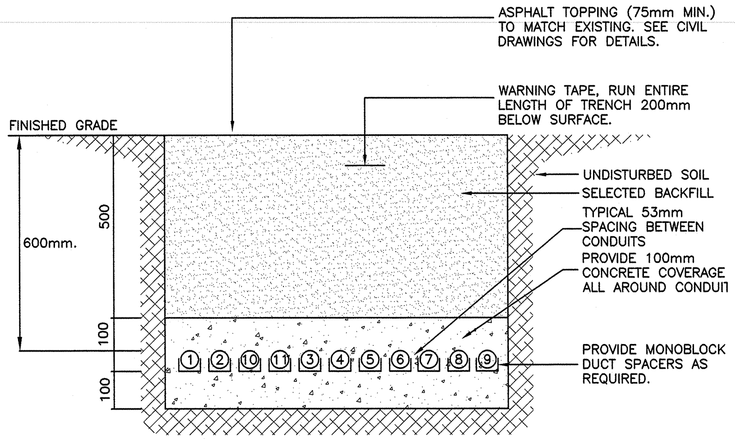
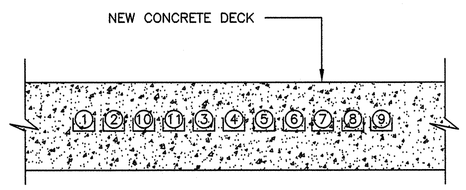


TRENCH DETAIL B (B / E2)
N.T.S.

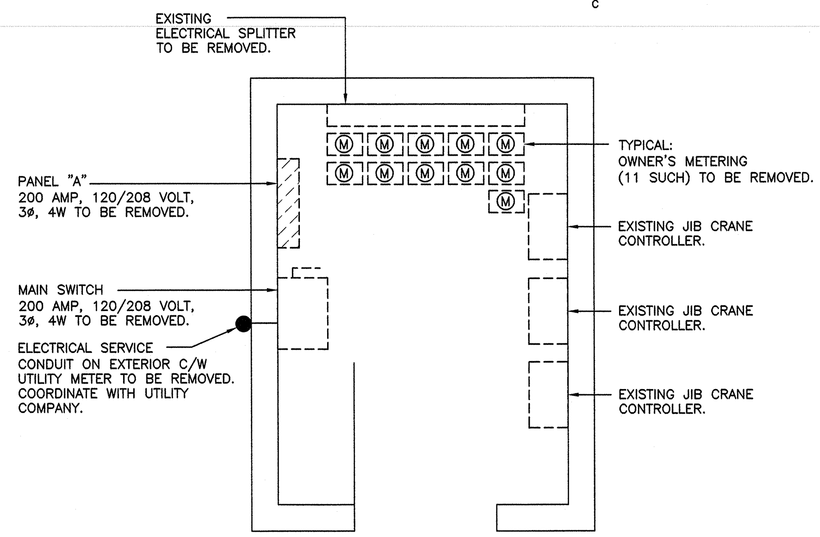


TRENCH DETAIL C (C / E3)
N.T.S.

NOTE:

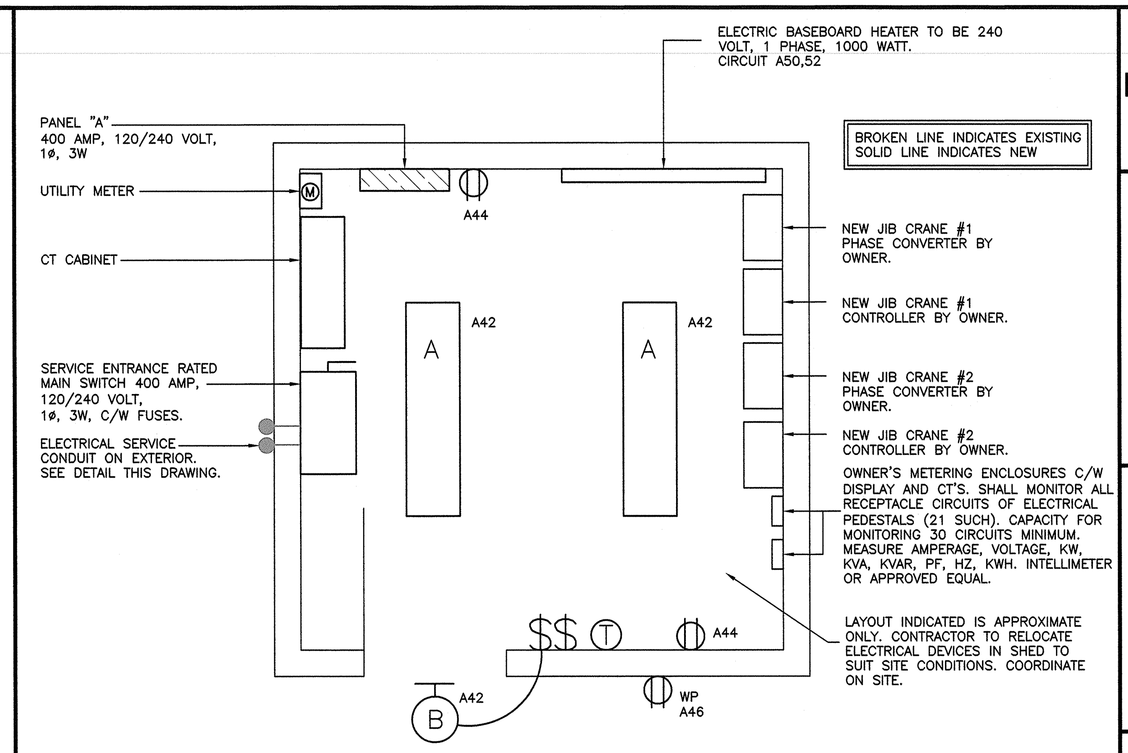
1. CONDUIT LOCATIONS ARE APPROXIMATE ONLY. ACTUAL CONDUIT LOCATIONS TO BE COORDINATED ON SITE.
2. STEEL REINFORCEMENT OMITTED FOR CLARITY. SEE CIVIL DRAWINGS FOR DETAILS.

SYMBOL	UNDERGROUND WIRE AND CONDUIT SIZE
1	2 #8 RW90 + 1 #10 TW GROUND IN 27mm. RIGID PVC CONDUIT. (NEW LIGHT POLE #2)
2	2 #4 RW90 + 6 #3 RW90 + 1 #1 TW GROUND IN 53mm. RIGID PVC CONDUIT. (ELECTRICAL PEDESTAL #4)
3	8 #4 RW90 + 1 #1 TW GROUND IN 53mm. RIGID PVC CONDUIT. (ELECTRICAL PEDESTAL #3)
4	2 #8 RW90 + 1 #10 TW GROUND IN 27mm. RIGID PVC CONDUIT. (NEW LIGHT POLE #1)
5	8 #4 RW90 + 4 #2 RW90 + 1 #2 TW GROUND IN 53mm. RIGID PVC CONDUIT. (ELECTRICAL PEDESTAL #2)
6	8 #12 RW90 + 2 #8 RW90 + 3 #6 RW90 + 1 #6 TW GROUND IN 53mm. RIGID PVC CONDUIT. (JIB CRANE #1)
7	2 #10 RW90 + 1 #12 TW GROUND IN 27mm. RIGID PVC CONDUIT. (NEW LIGHT POLE #3)
8	2 #8 RW90 + 6 #6 RW90 + 7 #4 RW90 + 1 #4 TW GROUND IN 53mm. RIGID PVC CONDUIT. (ELECTRICAL PEDESTAL #1)
9	8 #12 RW90 + 2 #10 RW90 + 3 #8 RW90 + 1 #8 TW GROUND IN 53mm. RIGID PVC CONDUIT. (JIB CRANE #2)
10	4 #1 RW90 + 1 #1 TW GROUND IN 53mm. RIGID PVC CONDUIT (ELECTRICAL PEDESTAL #4).
11	4 #1 RW90 + 1 #1 TW GROUND IN 53mm. RIGID PVC CONDUIT. (ELECTRICAL PEDESTAL #3)



DEMOLITION NOTE:
1. ALL DEVICES, WIRING AND CONDUIT IN EXISTING ELECTRICAL SHED TO BE REMOVED UNLESS OTHERWISE NOTED.
2. SEE GENERAL NOTES ON DRAWING E1.

EXISTING ELECTRICAL SHED LAYOUT
SCALE .: 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm



NEW ELECTRICAL SHED LAYOUT
SCALE .: 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm

VOLTS 120/240	PANEL NAME "A"	MAINS RATED 400 AMPS
PHASE 1	LOCATION ELECTRICAL SHED	MOUNTING SURFACE
WIRE 3	FED FROM UTILITY	ENTER AT ____ CIRCUITS 60

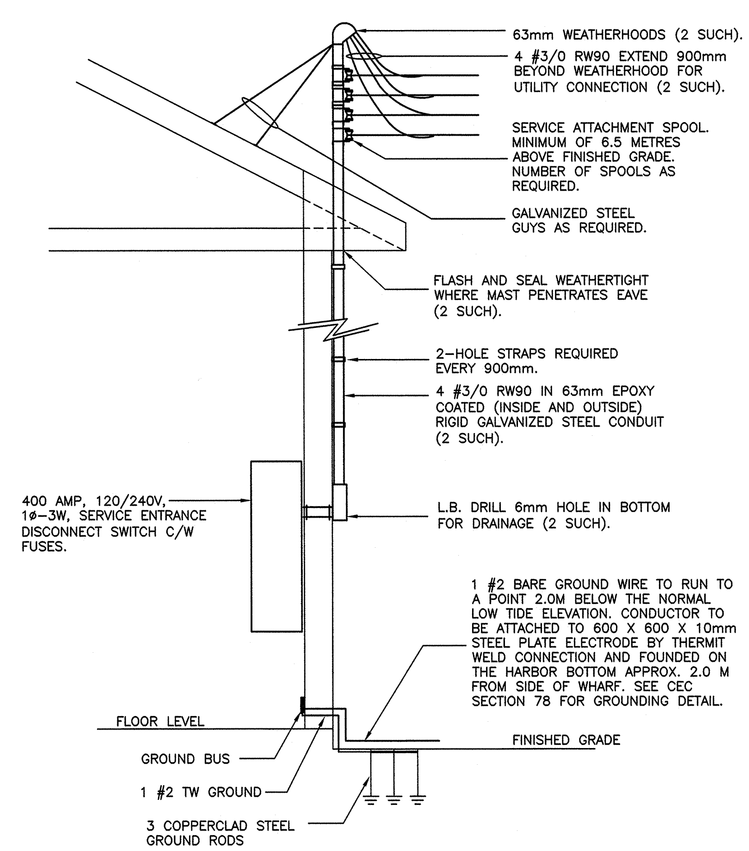
DESIGNATION	WATTAGE ø A	WATTAGE ø B	WIRE	BKR	CCT	A B	CCT	BKR	WIRE	WATTAGE ø A	WATTAGE ø B	DESIGNATION
ELECTRICAL PEDESTAL #1 (RECEPT. #1)	2520		4	30	1		2	40	8	1400		JIB CRANE #2
ELECTRICAL PEDESTAL #1 (RECEPT. #2)		2520	4	30	3		4	2			1400	
ELECTRICAL PEDESTAL #1 (RECEPT. #3)	2184		6	30	5		6	15	12	120		JIB CRANE #2 RECEPT
		2184		2	7		8	15	10		300	JIB CRANE #2 LIGHT
ELECTRICAL PEDESTAL #1 (RECEPT. #4)	1260		8	15	9		10	15				SPARE
ELECTRICAL PEDESTAL #3 (RECEPT. #5)		2520	1	30	11		12	15				SPARE
ELECTRICAL PEDESTAL #1 (RECEPT. #5)	3640		4	50	13		14	40	6	1400		JIB CRANE #1
		3640		2	15		16	2			1400	
ELECTRICAL PEDESTAL #2 (RECEPT. #1)	2520		2	30	17		18	15				SPARE
ELECTRICAL PEDESTAL #2 (RECEPT. #2)		2520	2	30	19		20	15	12	120		JIB CRANE #1 RECEPT
ELECTRICAL PEDESTAL #2 (RECEPT. #3)	2184		4	30	21		22	15	8		300	JIB CRANE #1 LIGHT
		2184		2	23		24	15				SPARE
ELECTRICAL PEDESTAL #2 (RECEPT. #4)	1260		4	15	25		26	40				SPARE
ELECTRICAL PEDESTAL #4 (RECEPT. #5)		2520	1	30	27		28	2				
ELECTRICAL PEDESTAL #3 (RECEPT. #1)	2520		1	30	29		30	15				SPARE
ELECTRICAL PEDESTAL #3 (RECEPT. #2)		2184	4	30	31		32	15				SPARE
	2184			2	33		34	15				SPARE
ELECTRICAL PEDESTAL #3 (RECEPT. #3)		2184	4	30	35		36	15	10		300	NEW LIGHT POLE #3
	2184			2	37		38	15	8	300		NEW LIGHT POLE #1
ELECTRICAL PEDESTAL #3 (RECEPT. #4)		1260	4	15	39		40	15	8		300	NEW LIGHT POLE #2
ELECTRICAL PEDESTAL #4 (RECEPT. #1)	2520		1	30	41		42	15	12	200		ELECT. SHED LIGHTING
ELECTRICAL PEDESTAL #4 (RECEPT. #2)		2184	3	30	43		44	15	12		360	ELECT. SHED RECEPTACLES
	2184			2	45		46	15	12	120		ELECT. SHED – EXTERIOR RECEPTACLE **
ELECTRICAL PEDESTAL #4 (RECEPT. #3)		2184	3	30	47		48	15				SPARE
	2184			2	49		50	15	12	500		ELECT. SHED HEATING
ELECTRICAL PEDESTAL #4 (RECEPT. #4)		1260	4	15	51		52	2			500	
ELECTRICAL PEDESTAL #1 (RECEPT. #6)	2520		6	30	53		54	20				SPARE
		2520		2	55		56	2				
ELECTRICAL PEDESTAL #2 (RECEPT. #5)	2520		4	30	57		58	20				SPARE
		2520		2	59		60	2				

ø A TOTAL :	38544
ø B TOTAL :	34204

TOTAL LOAD	72.75	KW	303.1	AMP
DEMAND LOAD	75.5	KW	315	AMP

* – INDICATES LOCK-ON DEVICE
** – INDICATES GROUND FAULT CIRCUIT BREAKER

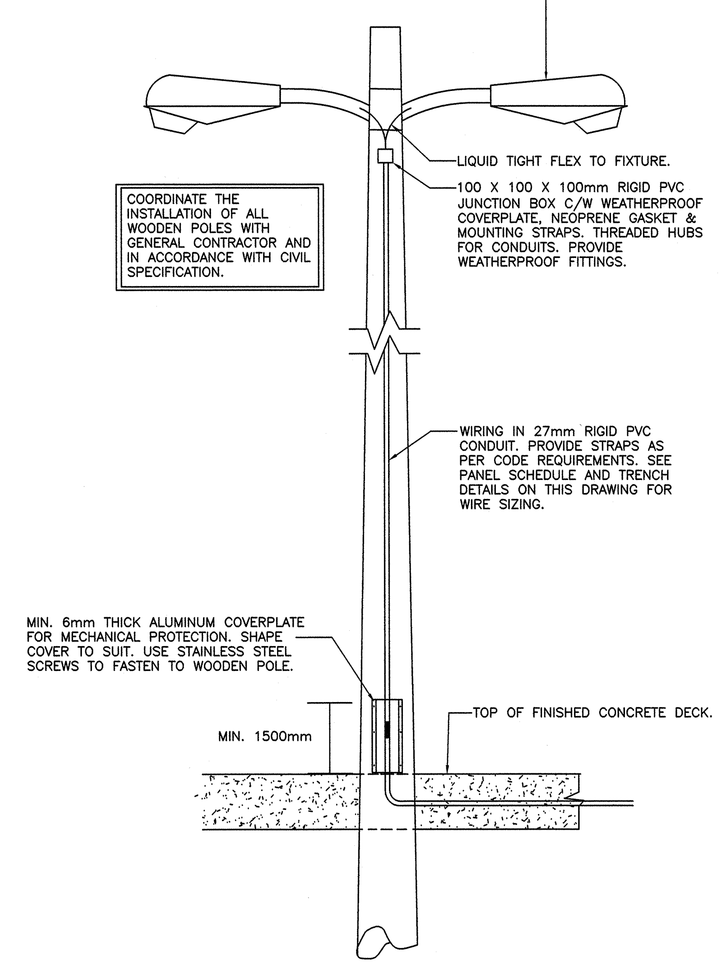
CONTRACTOR TO COORDINATE WITH UTILITY COMPANY NEW SERVICE REQUIREMENTS. ACTUAL MOUNTING HEIGHT OF SERVICE MAST TO BE COORDINATED WITH UTILITY COMPANY. ADJUST CONDUCTOR AND CONDUIT LENGTHS ON THIS DETAIL AS REQUIRED.



NEW ELECTRICAL SERVICE ELEVATION DETAIL
N.T.S.

LIGHT FIXTURE, PHOTOCELL, UPSWING ARM AND LAMP TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. OWNER SUPPLIED MATERIALS TO BE PICKED UPBY THE CONTRACTOR AT DFO'S WAREHOUSE IN MOUNT PEARL, NL. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL OTHER REQUIRED JUNCTION BOXES, CONDUIT, COVERPLATES, ETC FOR A COMPLETE INSTALLATION.

COORDINATE THE INSTALLATION OF ALL WOODEN POLES WITH GENERAL CONTRACTOR AND IN ACCORDANCE WITH CIVIL SPECIFICATION.



TYPICAL LIGHT POLE DETAIL (A / E3)
N.T.S.

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

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
Class "A"
This Permit Allows
CROSSER ENGINEERING LIMITED
To practice Professional Engineering in Newfoundland and Labrador
Permit No. as issued by PEG-NL 00122
which is valid for the year 2015.

STAMP
REGISTERED PROFESSIONAL ENGINEER
PEGL
KENNETH R.P. NEIL
Signature
JUNE. 12 2015
Date
NEWFOUNDLAND & LABRADOR

revisions		date
0	ISSUED FOR TENDER	12/06/15

project / projet
HARBOUR DEVELOPMENT
JOE BATT'S ARM, NL

drawing / dessin
ELECTRICAL DETAILS

designed / conçu K.N.
date MAY 2015
drawn / dessiné B.C.
date MAY 2015
approved / approuvé
date
Tender / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC

project number / no. du projet
R.077427.001

drawing no. / no. du dessin
E4

PWGSC B1 (2004)

E-DRM/GDD-E: 521899 VERSION 1