

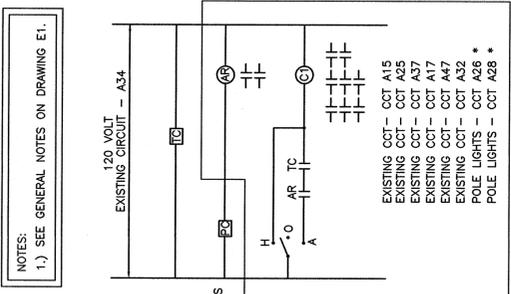
ISSUED FOR TENDER	02/11/14
ISSUED FOR REVIEW	24/09/14
ISSUED FOR REVIEW	08/08/14
revisions	

project
HARBOUR DEVELOPMENT PHASE II
MARY'S HARBOUR, LABRADOR

ELECTRICAL DETAILS

designed	K.N.
drawn	K.N.
checked	
approved	
date	SEPT 2014
date	SEPT 2014
date	

no. du dessin
E3
 no. du projet
R.071733.001



NOTES:
 1.) SEE GENERAL NOTES ON DRAWING E1.

LIGHTING CONTROL PANEL LEGEND
 EXISTING TIME CLOCK 120 VOLT, C/W 2 N.O. CONTACTS
 EXISTING TIME CLOCK 120 VOLT, C/W 2 N.O. CONTACTS
 EXISTING AUXILIARY RELAY C/W 2 N.O. CONTACTS
 EXISTING 8 POLE CONTACTOR, 120 VOLT, 20 AMP.

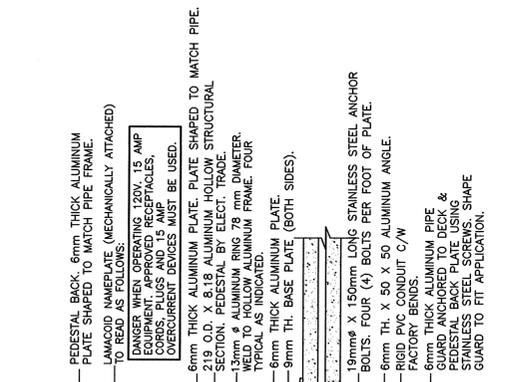
H-O-A EXISTING HAND-OFF-AUTO SELECTOR SWITCH, MOUNT IN NEW ENCLOSURE DOOR.

EXISTING EMAC 12 ENCLOSURE C/W HINGED COVER AND LOCKING DOOR. PROVIDE LAMICOID LABEL TO READ "EXTERIOR LIGHTING". MOUNT COVER SWITCHES ABOVE FINISHED FLOOR. IN ELECTRICAL SHED.

EXISTING CCT - CCT A15
 EXISTING CCT - CCT A25
 EXISTING CCT - CCT A37
 EXISTING CCT - CCT A17
 EXISTING CCT - CCT A47
 EXISTING CCT - CCT A32
 POLE LIGHTS - CCT A28 *
 POLE LIGHTS - CCT A28 *

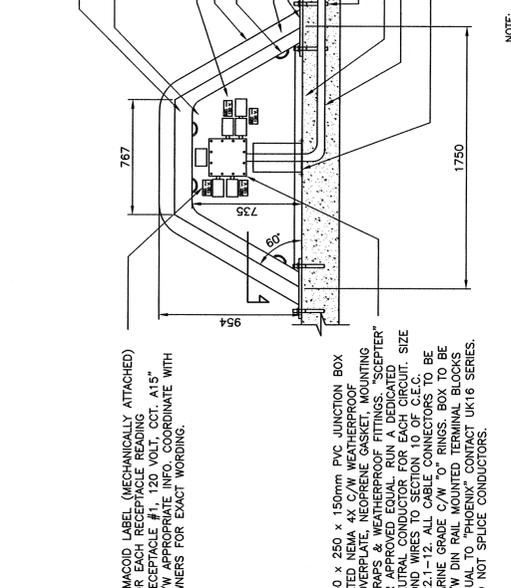
* - INDICATES ELECTRICAL CONTRACTOR TO COORDINATE WITH CIVIL ENGINEERING LIGHTING CONTROL PANEL COORDINATE ON SITE.

EXTERIOR LIGHTING CONTROL PANEL
 N.T.S.



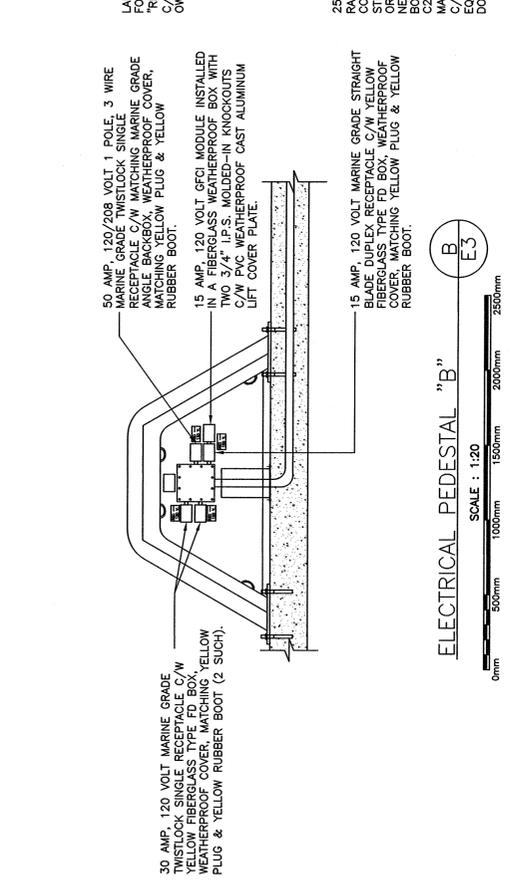
TYPICAL SECTION "A-A" ELECTRICAL PEDESTAL
 SCALE: 1:20

NOTE:
 1. REINFORCING OMITTED FOR CLARITY.
 2. MOUNT RECEPTACLES IN PVC FD TYPE OUTLET BOX. COORDINATE WITH CIVIL ENGINEERING LIGHTING CONTROL PANEL COORDINATE ON SITE.
 3. PROVIDE ALUMINUM ANGLE MOUNTING BRACKETS WELDED TO THE BACK PLATE, FOR ALL RECEPTACLES.
 4. UTILIZE RIGID PVC CONDUIT C/W MARINE GRADE FITTINGS. SECURE TO PEDESTAL USING 2 HOLE STRIPS & S.S. SCREWS. TYPICAL.



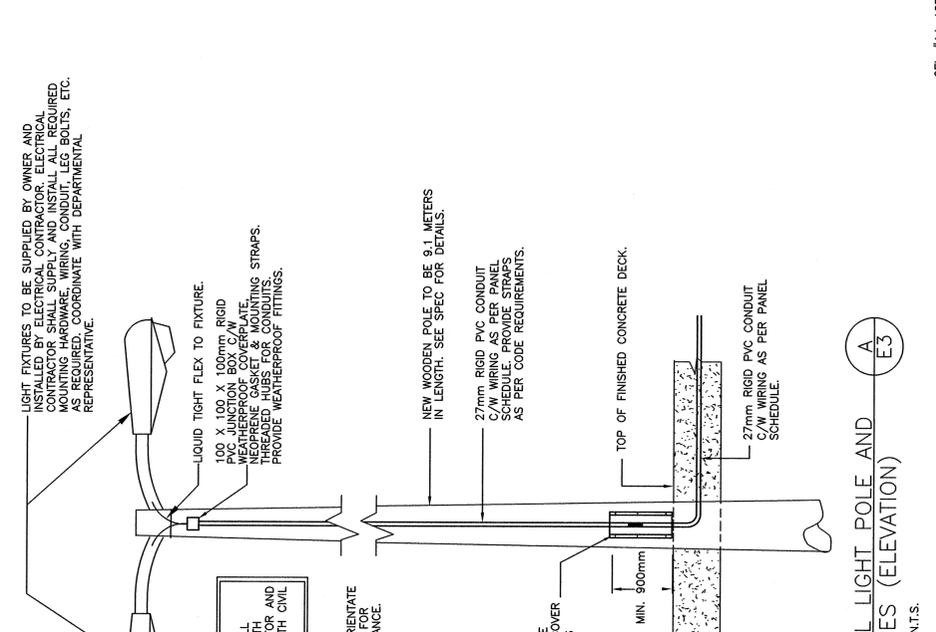
ELECTRICAL PEDESTAL "B"
 SCALE: 1:20

NOTE:
 1. REINFORCING OMITTED FOR CLARITY.
 2. MOUNT RECEPTACLES IN PVC FD TYPE OUTLET BOX. COORDINATE WITH CIVIL ENGINEERING LIGHTING CONTROL PANEL COORDINATE ON SITE.
 3. PROVIDE ALUMINUM ANGLE MOUNTING BRACKETS WELDED TO THE BACK PLATE, FOR ALL RECEPTACLES.
 4. UTILIZE RIGID PVC CONDUIT C/W MARINE GRADE FITTINGS. SECURE TO PEDESTAL USING 2 HOLE STRIPS & S.S. SCREWS. TYPICAL.



ELECTRICAL PEDESTAL "C"
 SCALE: 1:20

NOTE:
 1. REINFORCING OMITTED FOR CLARITY.
 2. MOUNT RECEPTACLES IN PVC FD TYPE OUTLET BOX. COORDINATE WITH CIVIL ENGINEERING LIGHTING CONTROL PANEL COORDINATE ON SITE.
 3. PROVIDE ALUMINUM ANGLE MOUNTING BRACKETS WELDED TO THE BACK PLATE, FOR ALL RECEPTACLES.
 4. UTILIZE RIGID PVC CONDUIT C/W MARINE GRADE FITTINGS. SECURE TO PEDESTAL USING 2 HOLE STRIPS & S.S. SCREWS. TYPICAL.



TYPICAL LIGHT POLE AND FIXTURES (ELEVATION)
 N.T.S.

NOTE:
 1. LIGHT FIXTURES TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTRACTOR SHALL SUPPLY AND INSTALL ALL REQUIRED MOUNTING HARDWARE, WIRING, CONDUIT, LEG BOLTS, ETC. AS REQUIRED. COORDINATE WITH DEPARTMENTAL REPRESENTATIVE.
 2. COORDINATE THE INSTALLATION OF ALL WOODEN POLES WITH CIVIL ENGINEERING LIGHTING CONTROL PANEL COORDINATE ON SITE.
 3. CONTRACTOR TO ORIENTATE LIGHTING FIXTURES FOR OPTIMUM PERFORMANCE.
 4. MIN. 6mm THICK ALUMINUM COVERPLATE TO SUIT. USE STAINLESS STEEL SCREWS TO FASTEN TO WOODEN POLE.
 5. NEW WOODEN POLE TO BE 8.1 METERS IN LENGTH. SEE SPEC FOR DETAILS.
 6. 27mm RIGID PVC CONDUIT C/W WIRING AS PER PANEL SCHEDULE.
 7. TOP OF FINISHED CONCRETE DECK.

DESIGNATION	PANEL NAME			"A" ELECTRICAL SHED			MAIN RATED 400 AMP MOUNTING SURFACE ENTERING AT			CIRCUITS 72	WATTAGE	DESIGNATION
	120/208	3	4	WIRE	Ø A	Ø B	Ø C	Ø A	Ø B			
EXISTING CIRCUIT				12	15	1	2	15	8	1260	1260	EXISTING CIRCUIT
EXISTING CIRCUIT				30	30	3	4	30	6	2520	2520	EXISTING CIRCUIT
EXISTING CIRCUIT				8	10	7	8	150	6	3640	3640	EXISTING CIRCUIT
EXISTING CIRCUIT				12	150	6	12	150	6	3640	3640	EXISTING CIRCUIT
EXISTING CIRCUIT				14	15	6	14	15	6	1260	1260	EXISTING CIRCUIT
EXISTING CIRCUIT				16	15	6	16	15	6	1260	1260	EXISTING CIRCUIT
EXISTING CIRCUIT				20	30	4	20	30	4	2520	2520	EXISTING CIRCUIT
EXISTING CIRCUIT				22	50	2	22	50	2	3640	3640	EXISTING CIRCUIT
EXISTING CIRCUIT				24	2	4	24	2	4	3640	3640	EXISTING CIRCUIT
EXISTING CIRCUIT				26	15	12	26	15	12	300	300	LIGHT POLE #1
EXISTING CIRCUIT				28	15	12	28	15	12	300	128	LIGHT POLE #2
EXISTING CIRCUIT				30	15	12	30	15	12	100	100	EXISTING CIRCUIT
EXISTING CIRCUIT				32	15	12	32	15	12	100	360	EXISTING CIRCUIT
EXISTING CIRCUIT				34	15	12	34	15	12	120	3640	EXISTING CIRCUIT
EXISTING CIRCUIT				36	15	12	36	15	12	120	3640	EXISTING CIRCUIT
EXISTING CIRCUIT				38	15	12	38	15	12	120	3640	EXISTING CIRCUIT
EXISTING CIRCUIT				40	15	12	40	15	12	120	3640	EXISTING CIRCUIT
EXISTING CIRCUIT				42	2	6	42	2	6	3640	3640	POWER PEDESTAL #1 (RECEPT #1)
EXISTING CIRCUIT				44	30	4	44	30	4	2520	2520	POWER PEDESTAL #2 (RECEPT #1)
EXISTING CIRCUIT				46	30	4	46	30	4	3640	3640	POWER PEDESTAL #3 (RECEPT #1)
EXISTING CIRCUIT				48	50	3	48	50	3	3640	3640	POWER PEDESTAL #4 (RECEPT #1)
EXISTING CIRCUIT				50	30	2	50	30	2	2520	2520	POWER PEDESTAL #5 (RECEPT #1)
EXISTING CIRCUIT				52	30	2	52	30	2	2520	2520	POWER PEDESTAL #6 (RECEPT #1)
EXISTING CIRCUIT				54	30	2	54	30	2	2520	2520	POWER PEDESTAL #7 (RECEPT #1)
EXISTING CIRCUIT				56	30	2	56	30	2	2520	2520	POWER PEDESTAL #8 (RECEPT #1)
EXISTING CIRCUIT				58	30	2	58	30	2	2520	2520	POWER PEDESTAL #9 (RECEPT #1)
EXISTING CIRCUIT				60	30	2	60	30	2	2520	2520	POWER PEDESTAL #10 (RECEPT #1)
EXISTING CIRCUIT				62	30	2	62	30	2	2520	2520	POWER PEDESTAL #11 (RECEPT #1)
EXISTING CIRCUIT				64	15	63	64	15	63	1260	1260	POWER PEDESTAL #12 (RECEPT #1)
EXISTING CIRCUIT				66	15	65	66	15	65	1260	1260	POWER PEDESTAL #13 (RECEPT #1)
Ø A TOTAL :	22412											
Ø B TOTAL :	22132											
Ø C TOTAL :	20760											
PANEL LOAD :	368.8	KW	268	AMP								
TOTAL SERVICE LOAD :	103.6	KW	288	AMP								

* - INDICATES NEW CIRCUIT FROM EXISTING PANEL SUPPLY AND INSTALL NEW CIRCUIT BREAKER AS INDICATED C/W MOUNTING HARDWARE. IC RATING TO MATCH.

NOTE: TOTAL PANEL AND SERVICE LOADS BASED ON DEMAND FACTORS AS OUTLINED WITHIN SECTION 78 OF THE C.E.C.