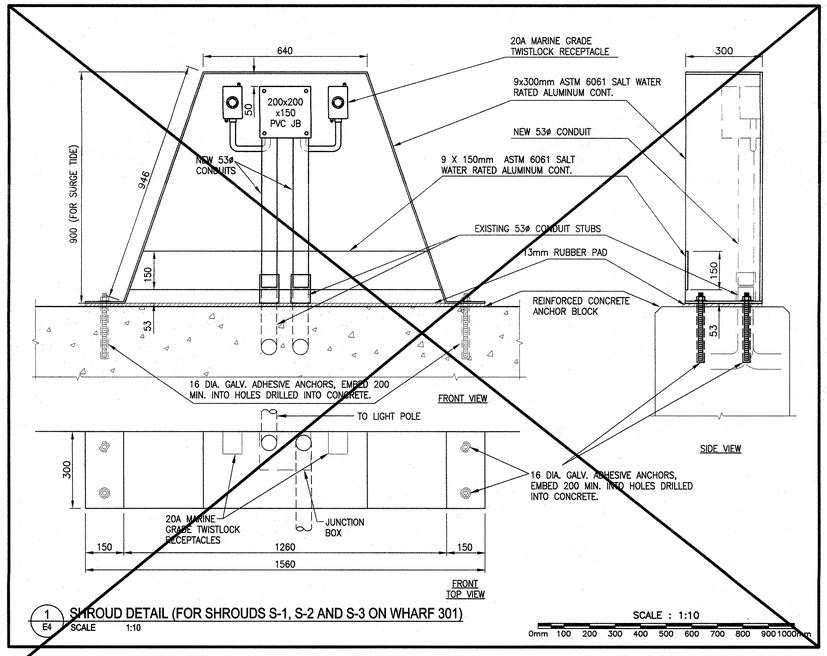
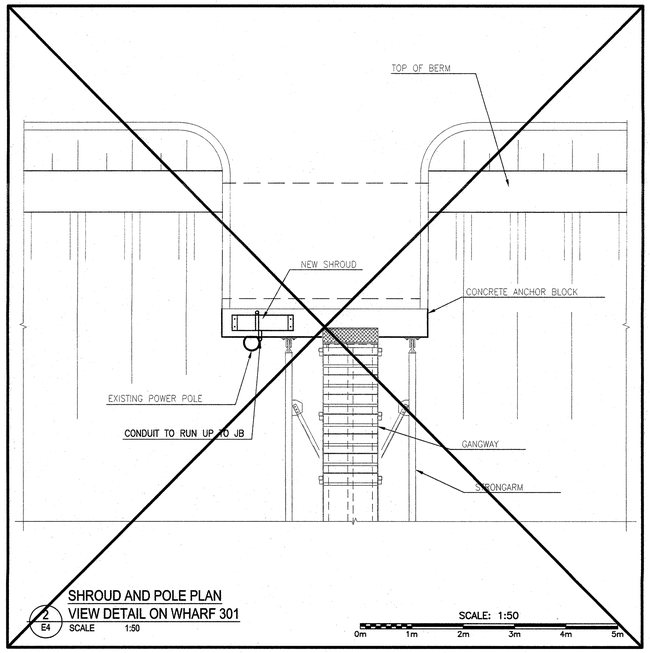


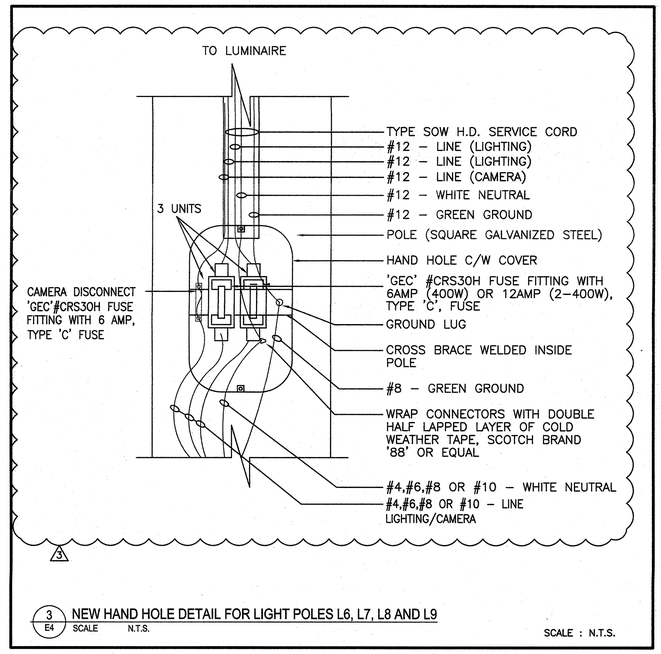
1 E4 SHROUD DETAIL (FOR SHROUDS S-1, S-2 AND S-3 ON WHARF 301)
SCALE 1:10

SCALE : 1:10



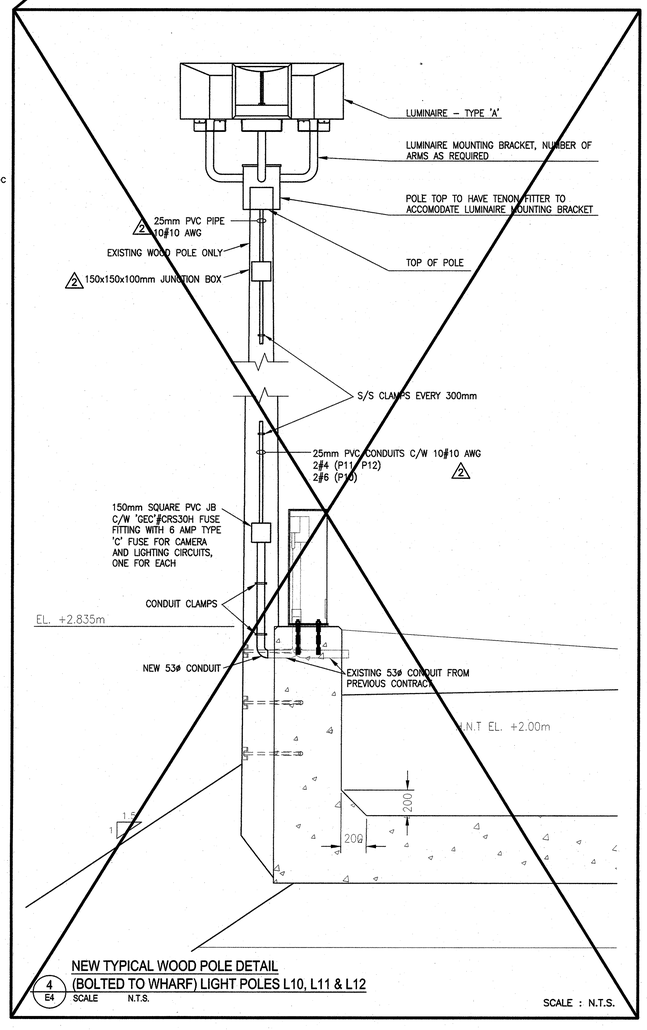
2 E4 SHROUD AND POLE PLAN
VIEW DETAIL ON WHARF 301
SCALE 1:50

SCALE: 1:50



3 E4 NEW HAND HOLE DETAIL FOR LIGHT POLES L6, L7, L8 AND L9
SCALE N.T.S.

SCALE : N.T.S.



4 E4 NEW TYPICAL WOOD POLE DETAIL
(BOLTED TO WHARF) LIGHT POLES L10, L11 & L12
SCALE N.T.S.

SCALE : N.T.S.

PANEL: A — 16KAIC

POWER SUPPLY: 120/240V,1PH,3W
MAINS: 200A, 200A, 2P, MCB
NUMBER OF CCTs: 28 CCT

DESCRIPTION	WATTAGE A	WATTAGE B	# P	SKS AMP	CIRCUIT		SKS AMP	# P	WATTAGE A	WATTAGE B	DESCRIPTION
SW1 OUTLET POLE L6	4800		3	50	1 a	2	15 1		480		LTG POLE #6 - SEASONAL LT#
		4800			3 b	4	15 1			960	LTG POLE #4 - FULL LT#
					5 a	6	20 1		480		LTG POLE #6 - RECEPT #1 GFI
					7 b	8	20 1			200	LTG POLE #6 - RECEPT #2 GFI
GFI EXHAUST FAN	1440		1	15	9 a	10	15 1		200		RE-1 - RECEPT #1 GFI
LIGHTING CONTACTOR		200	1	15	11 b	12	15 1			200	RE-1 - RECEPT #2 GFI
SPARE					13 a	14	20 1		200		RE-1 - RECEPT #13 GFI
SPARE					15 b	16	20 1			100	ENCLOSURE RE-1 LT#
SPARE					17 a	18	50 2		4800		SW2
SPARE					19 b	20				4800	
					21 a	22	20 1		1920		POLE #7 - RECEPT #1 GFI
					23 b	24	20 1			1920	POLE #7 - RECEPT #2 GFI
					25 a	26	15 1		480		LTG POLE #7 - SEASONAL LT#
					27 b	28	15 1			960	LTG POLE #7 - FULL LT#
PHASE LOADS/PHASE:	6240	8000							8560	9140	
TOTAL LOAD:	26940										
TOTAL PHASE LOADS	14880	14140									
+/- 5%	13701	18194									(GFI) - GROUND FAULT INTERRUPTING
CURRENT (A) @ 240V:	121										(+) - LOCKING BREAKER

PANEL: B — 16KAIC

POWER SUPPLY: 120/240V,1PH,3W
MAINS: 200A, 200A, 2P MCB
NUMBER OF CCTs: 28 CCT

DESCRIPTION	WATTAGE A	WATTAGE B	# P	SKS AMP	CIRCUIT		SKS AMP	# P	WATTAGE A	WATTAGE B	DESCRIPTION
POLE L6 FULL LT#	960		1	20	1 a	2	20 1		1920		POLE L6 RECEPT #3 GFI
POLE L6 SEASONAL LT#		480	1	20	3 b	4	20 1			1920	POLE L6 RECEPT #4 GFI
POLE L6 SEASONAL LT#	480		1	20	5 a	6	20 1		1920		POLE L9 RECEPT #5 GFI
POLE L9 FULL LT#		960	1	20	7 b	8	20 1			1920	POLE L9 RECEPT #6 GFI
SW3	4800		3	50	9 a	10	20 1				SPARE GFI
		4800			11 b	12	15 1				SPARE GFI
SW4	4800		2	50	13 a	14	15 1				SPARE GFI
		4800			15 b	16	15 1				SPARE GFI
					17 a	18	15 1				SPARE GFI
					19 b	20					
					21 a	22					
					23 b	24					
					25 a	26					
					27 b	28					
PHASE LOADS/PHASE:	11040	11040							3840	3840	
TOTAL LOAD:	29760										
TOTAL PHASE LOADS	14880	14880									
+/- 5%	14181	15835									(GFI) - GROUND FAULT INTERRUPTING
CURRENT (A) @ 240V:	124										(+) - LOCKING BREAKER

PANEL: C — 16KAIC

POWER SUPPLY: 120/240V,1PH,3W
MAINS: 125A, 100A, 2P, MCB
NUMBER OF CCTs: 16 CCT

DESCRIPTION	WATTAGE A	WATTAGE B	# P	SKS AMP	CIRCUIT		SKS AMP	# P	WATTAGE A	WATTAGE B	DESCRIPTION
LIGHT POLE L10 - SEASONAL LT#	480		1	15	1 a	2	20 1		1920		RECEPTACLE #7 GFI
LIGHT POLE L10 - FULL LT#		960	1	15	3 b	4	20 1			1920	RECEPTACLE #8 GFI
LIGHT POLE L11 - FULL LT#	480		1	15	5 a	6	20 1		1920		RECEPTACLE #9 GFI
LIGHT POLE L11 - SEASONAL LT#		960	1	15	7 b	8	20 1			1920	RECEPTACLE #10 GFI
LIGHT POLE L12 - SEASONAL LT#	480		1	15	9 a	10	15 1		1920		RECEPTACLE #11 GFI
LIGHT POLE L12 - FULL LT#		960	1	15	11 b	12	20 1			1920	RECEPTACLE #12 GFI
					13 a	14	20 1				SPARE GFI
					15 b	16	20 1				SPARE GFI
PHASE LOADS/PHASE:	1440	3980							5760	5760	
TOTAL LOAD:	10640										
TOTAL PHASE LOADS	7200	9640									
+/- 5%	7643	9316									(GFI) - GROUND FAULT INTERRUPTING
CURRENT (A) @ 240V:	66										(+) - LOCKING BREAKER

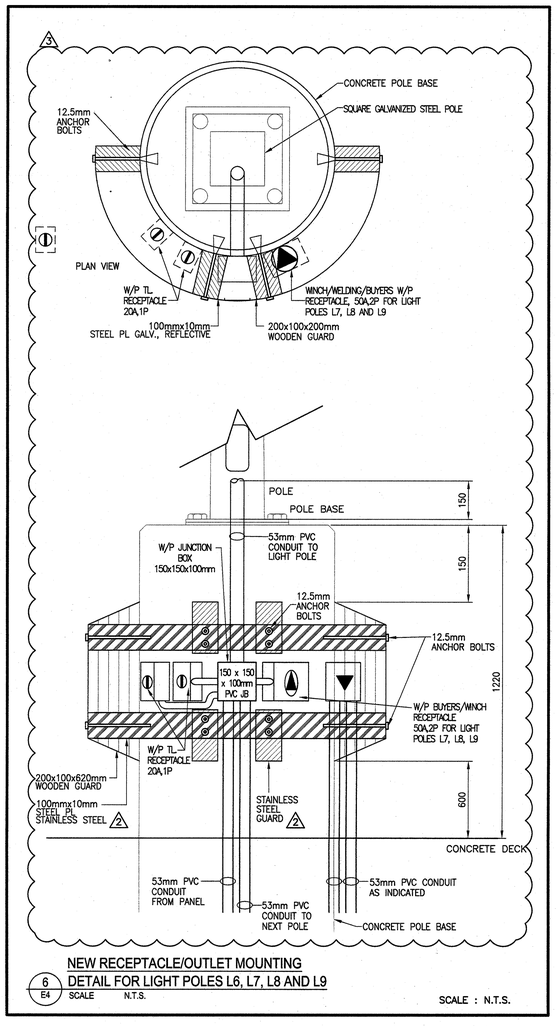
PANEL: PA — 16KAIC

POWER SUPPLY: 347/600V,3PH.,4W.
MAINS: 225A
NUMBER OF CCTs: 42

DESCRIPTION	WATTAGE A	WATTAGE B	WATTAGE C	# P	SKS AMP	CIRCUIT		SKS AMP	# P	WATTAGE A	WATTAGE B	WATTAGE C	DESCRIPTION
WINCH	16608			3	60	1 a	2	100	3	8280			PANEL 'A'
		16608				3 b	4				6340		
			16608			5 c	6	100	2			7200	PANEL 'C'
						7 a	8			9640			
						9 b	10	100	3		14880		PANEL 'B'
						11 c	12					14880	
						13 a	14						
						15 b	16						
						17 c	18						
						19 a	20						
						21 b	22						
						23 c	24						
						25 a	26						
						27 b	28						
						29 c	30						
						31 a	32						
						33 b	34						
						35 c	36						
						37 a	38						
						39 b	40						
						41 c	42						
PHASE LOADS#:	16608	16608	16608							16928	21220	22088	
TOTAL LOAD#:	110044												
TOTAL PHASE LOADS	31928	37928	38688										(#) - NEW BOOM NUMBER
+/- 5%	34935	39815											(GFI) - GROUND FAULT INTERRUPT BRKR
CURRENT (A) @ 600V:	106												(+) - LOCKING BREAKER

5 E4 PANEL SCHEDULES FOR ELECTRICAL SERVICE ENCLOSURE ES-1
SCALE N.T.S.

SCALE : N.T.S.



6 E4 NEW RECEPTACLE/OUTLET MOUNTING
DETAIL FOR LIGHT POLES L6, L7, L8 AND L9
SCALE N.T.S.

SCALE : N.T.S.

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

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NORTH

Stamp / Estampe

REGISTERED PROFESSIONAL ENGINEER
Ralph A. Smith
2015.05.14
PROVINCE OF NEW BRUNSWICK

revisions	description	date
3	WHARF 403 ELECTRICAL UPGRADE	2015.03.31
2	AS-BUILT	2014.12.19
1	ISSUED FOR TENDER	2013.10.18

project / projet

RECONSTRUCTION OF STRUCTURE 403 PUBLIC WHARF MISCOU

NEW BRUNSWICK

drawing / dessin

NEW ELECTRICAL WHARF 301, 403, 404, 406 PANELS, POLES & SHROUDS

designed / conçu	RALPH SMITH, P.ENG
date	2015.03.31
drawn / dessiné	JODI PARKER
date	2015.03.31
approved / approuvé	RALPH SMITH, P.ENG
date	2015.03.31
Tender / Soumission	2015/05/14
PWGSC Project Manager / Administrateur de projets TPSGC	
project number / no. du projet	R.073265.001
drawing no. / no. du dessin	E4 of E6

1218

PWGSC B1 (2004)

E-DRM/GDD-E: 508635 Version 1