258 | 15 | 12 | 2 | WET WELL LIGHTING, LIGHTING CONTROL JUNCTION BOX 225 | 15 | 12 | 3 | LIGHTING CONTROL JUNCTION BOX, OUTDOOR LIGHTING 11 OUTDOOR RECEPTACLES | GFCI | 10 | 20 | 240 240 | 15 | 12 GENERATOR ROOM SOUTH RECEPTACLES 100 | 15 | 12 | 3 | LIGHTING CONTROL JUNCTION BOX, EMERGENCY LIGHTING ELB-U74 | 14 12 | 15 13 GENERATOR ROOM CARBON MONOXIDE DETECTOR 100 15 SPARE 20 15 17 SPARE 20 SPARE 19 SPACE SPARE | -15 21 SPACE | -15 | GFCI | SPARE | 22 23 | SPACE SPACE 25 SPACE SPACE | -27 SPACE SPACE 29 SPACE SPACE

31 SPACE | -SPACE 33 | SPACE SPACE 35 SPACE SPACE 37 | SPACE | -SPACE 39 SPACE | -SPACE 41 SPACE SPACE

LINE 1: 4.79 kVA 39.9 A

LINE 2: 4.86 kVA 40.5 A

1. ALL BREAKERS ARE SINGLE-POLE QOB-VH BREAKERS UNLESS OTHERWISE IDENTIFIED.

2. PROVIDE SECOND CABLE FEEDING LIGHTING CONTROL JUNCTION BOX.

TOTAL CONNECTED LOAD:

9.65 KVA

3. PROVIDE ONE (1) CABLE TO LIGHTING CONTROL JUNCTION BOX. OUTDOOR LIGHTS. PHOTOCÉLL AND EMERGENCY LIGHTING ARE TO BE FED FROM LIGHTING CONTROL JUNCTION BOX.

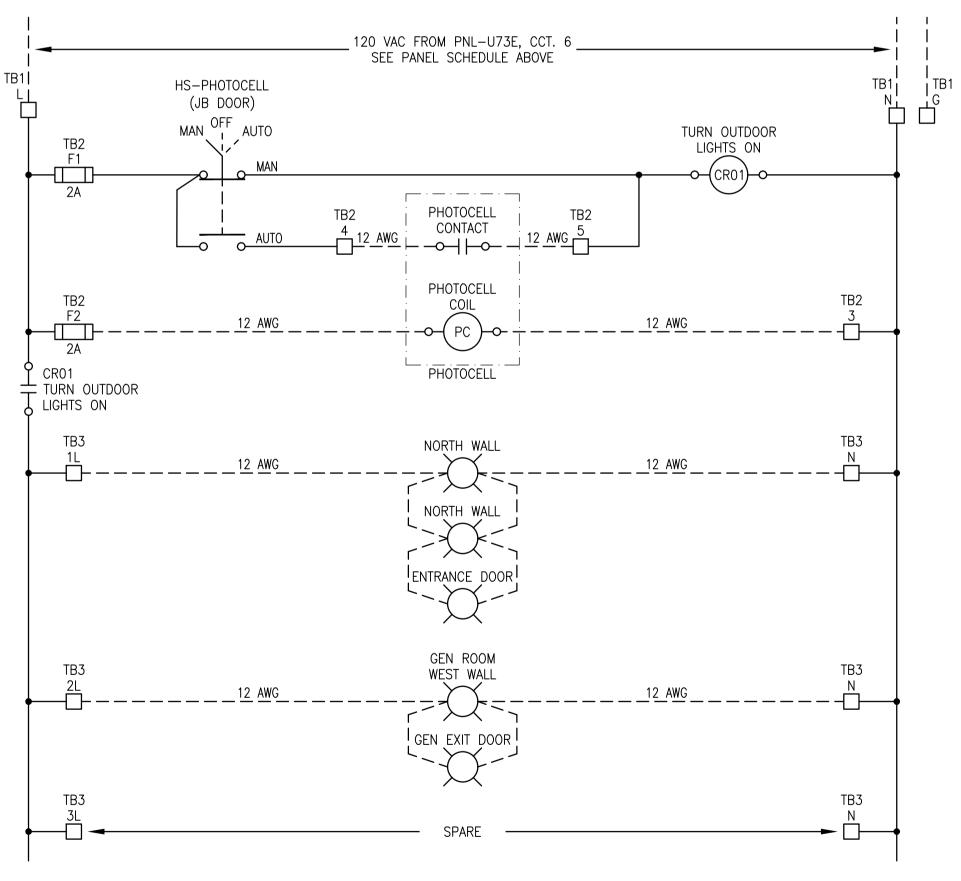
AFCI ARC FAULT CIRCUIT INTERRUPTOR

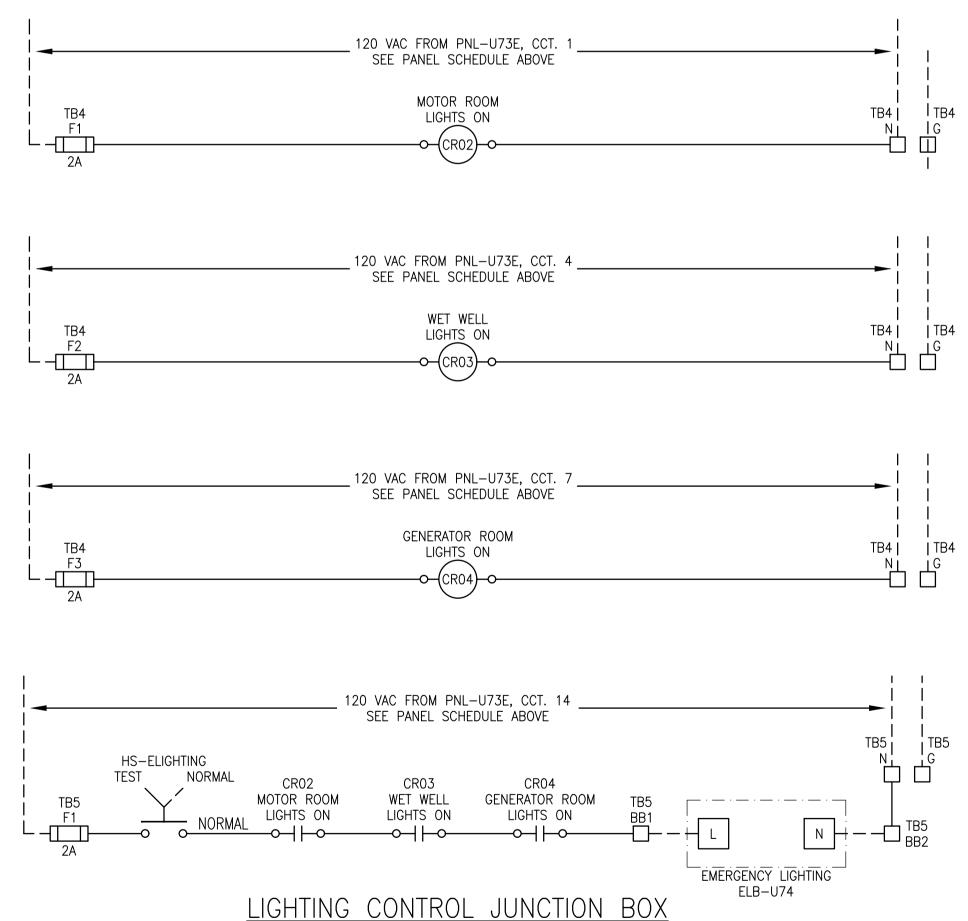
LOCK LOCKED BREAKER

GFCI GROUND FAULT CIRCUIT INTERRUPTOR

LUMINAIRE SCHEDULE LAMPS LOAD TYPE MANUFACTURER MODEL **VOLTS** RATING MOUNTING NOTES QTY TYPE 4VT2-LD5-8-DR-UNV-L840-CD1-U A EATON 120 N/A DELVIRO VT4S-60C-4K-U-FR-GRY-V-BFCX-N-N LUXLOGIC LIGHTING W-CR-WM-45W-40-70-UNV-D-DB 120 58 N/A LED C EATON EVLEDCX2C701 120 LED 30 CS N/A D EATON EVLEDBX2C701 LED 120 30 N/A EMERGI-LITE EF39PDM-LG MOUNTING LEGEND: RECESSED CHAIN HUNG CEILING SURFACE THREADED ROD AND CHANNEL PENDANT AS NOTED ON DRAWINGS NOTES: 1. USE 10 AWG RW90 IN 16mm CONDUIT. 2. LIGHT FIXTURE SHALL INCLUDE 0-10V DIMMABLE OPTION.

EMERGENCY LIGHTING BATTERY SCHEDULE												
			INPUT			INTERNAL LAMPS		REMOTE FIXTURES				
ID	MANUFACTURER	MODEL	VOLTS	VA	OUTPUT VOLTS	QTY	TYPE	~ ⊕⊅ 	TOTAL REMOTE	TOTAL LOAD (W)	DESIGN TIME	NOTES
ELB-U74	EMERGI-LITE	12NXMW108/2LG	120	30	12	2	LED, 4W	2	16	46	2.0 HRS	1, 2
NOTES:												
1. BATTERY RATED FOR 30 MIN. @ 108W. 2. ENCLOSURE SHALL BE RATED FOR NEMA 4X.												





lighting control junction box material list ITEM | QTY | DESCRIPTION MANUFACTURER CATALOG NUMBER 1 OUTDOOR PHOTOCELL PRECISION ST-15 SERIES 1 | SINGLE-DOOR TYPE 12 & 13 WALL-MOUNTED A1612CH ENCLOSURE, 16" HEIGHT X 12" WIDTH X 6" DEPTH, COMPLETE WITH LAMACOID (ITEM 27) HOFFMAN A16P12 1 BACKPAN, 16" HEIGHT X 12" WIDTH PHOENIX CONTACT 0801733 AS 35mm DIN RAIL REQ'D AS FEED-THROUGH TERMINAL PHOENIX CONTACT 3046184 REQ'D AS | FUSED TERMINAL PHOENIX CONTACT 3046142 REQ'D 9 AS FUSE CONNECTOR PHOENIX CONTACT 3036806 REQ'D AS POTENTIAL EARTH TERMINAL PHOENIX CONTACT 3046207 REQ'D 11 AS TERMINAL END PLATE PHOENIX CONTACT 3047141 REQ'D TERMINAL END CLAMP PHOENIX CONTACT 1201442 REQ'D 13 AS PLUG-IN BRIDGE PHOENIX CONTACT 3030365 REQ'D AS TERMINAL BLOCK MARKER PHOENIX CONTACT 1004348 REQ'D 4 RELAY, 120 VAC, SPDT, LED G2R-1-SN-AC120(S) P2RF-05 4 | RELAY BASE, SPDT 3-POSITION SWITCH COMPLETE WITH LAMACOIDS SCHNEIDER ELECTRIC HARMONY 9001K (ITEM 19) 'MAN', 'OFF, 'AUTO' 1 2-POSITION SWITCH COMPLETE WITH LAMACOIDS SCHNEIDER ELECTRIC HARMONY 9001K (ITEM 19) 'TEST' AND 'NORMAL' AS LAMACOID, WHITE PLATE WITH BLACK TEXT REQ'D

LIGHTING CONTROL JUNCTION BOX PHOTOCELL LIGHTING SCHEMATIC

EMERGENCY LIGHTING SCHEMATIC

GENERAL NOTES:

- 1. ALL EQUIPMENT AND CABLING IS TO BE NEW AND IS TO BE PROVIDED BY THE
- CONTRACTOR UNLESS OTHERWISE INDICATED AS EXISTING. 2. CONTRACTOR SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY.

SPECIFIC NOTES:

- PROVIDE AND INSTALL NEW LIGHTING CONTROL JUNCTION BOX COMPLETE WITH RELAYS. 3-POSITION SWITCH, 2-POSITION SWITCH AND TERMINAL BLOCKS AS SHOWN. SWITCHES SHALL BE MOUNTED ON JUNCTION BOX COVER COMPLETE WITH LAMACOIDS AS INDICATED. ALL INTERNAL AND EXTERNAL WIRING TO BE #12 AWG AND BE INSTALLED AS PER SCHEMATIC DIAGRAM SHOWN.
- PROVIDE AND INSTALL NEW OUTDOOR PHOTOCELL. PROVIDE 4C #12 AWG RW90 IN CONDUIT TO CONNECT PHOTOCELL TO PHOTOCELL JUNCTION BOX.

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APEGN		
Certificate of Authorization		
SNC-Lavalin Inc.		
NI - 4400	0A	
No. 4489	00	
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					SNC+LAVALIN	Winnipeg, MB, Canada R3P 0X7 204-786-8080	
					DESIGNED BY: K.SAPIAK	CHECKED BY: B. CLEVEN	PRELIMINARY
					DRAWN BY: C. DUBON	APPROVED BY: B. CLEVEN	NOT TO BE USFD FOR
					SCALE: N.T.S.	ISSUED FOR CONSTRUCTION BY: K. ZUREK	CONSTRUCTION
OA	ISSUED WITH ADDENDUM 1	2021/06/01	BC	BC	DATE: 2019/06/04	DATE: 2021/03/24	
00	ISSUED FOR CONSTRUCTION	2021/03/24	KS	DO.	CONSULTANT NO.:		1
NO	REVISIONS	DATE	DESIGN	CHECK			

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

KEEWATIN UNDERPASS PUMPING STATION 2021 UPGRADES ELECTRICAL SCHEDULES AND PHOTOCELL DETAILS

CITY DRAWING NUMBER SHEET REV. SIZE -0304U-E0009 001 | 0A | A1

1-0304U-E0009-001.dwg