| EMERGENCY LIGHTING SCHEDULE | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | MANUFACTURER | MODEL No. | INPUT | | OUTPUT VOLTS | INTERNAL LAMPS | | REMOTE FIXTURES | | TOTAL LOAD (W) | DESIGN TIME | NOTES |
| | | | V | W | | QTY | TYPE | QTY | TOTAL REMOTE LOAD (W) | | | |
| ELB–L74 | AIMLITE | EBWD12200 2R 1 6WLA GRY C/W RMN 2 12–24V 6WLA BLK | 120 | 200 | 12 | 2 | LED, 6W | 6 | 72 | 84 | 2.0HRS | 3 |

SUPPLY: 240V 1Ø 3W
BUS AMPACITY: 225
BUS MATERIAL: ■ COPPER □ ALUMINUM
INCOMING: □ BREAKER ■ LUGS
MAIN BREAKER AMPS:
SERVICE ENTRANCE RATED: □ YES ■ NO
BUS AND BREAKER RATING: 14kA

NAME PLATE:

PANEL – 'PNL–L73'
NOTE 2

LOCATION: MAIN FLOOR
MOUNTING: ■ SURFACE □ FLUSH
ENCLOSURE RATING: NEMA 12
MANUFACTURER:
MODEL NO:
BREAKER: □ PLUG–IN ■ BOLT–ON
SPD: □ YES ■ NO

| NOTE | REV | CCT | DESCRIPTION | VA | P | BKR | L1 | L2 | BKR | P | VA | DESCRIPTION | CCT | REV | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | LIGHTING CONTROL BOX, INTERIOR LIGHTING | 360 | 1 | 15 | • | | 15 | 1 | 84 | LIGHTING CONTROL BOX, EMERGENCY LIGHTING ELB–L74 | 2 | | 3 |
| | | 3 | LIGHTING CONTROL BOX, OUTDOOR LIGHTING | 140 | 1 | 15 | | • | 15 | 1 | 300 | HVAC VENTILATION PANEL JBA–L83 | 4 | | |
| | | 5 | PLC CONTROL PANEL CP–L81, TVSS01 | 300 | 1 | 15 | • | | 15 | 1 | – | SPARE | 6 | | |
| | | 7 | MAIN FLOOR RECEPTACLES | 500 | 1 | 15 | | • | 15 | 1 | 500 | MOTOR ROOM RECEPTACLES | 8 | | 4 |
| | | 9 | SUMP PUMP P–L04 (3/4HP, 10.4FLA, 24LRA) | 1248 | 1 | 25 | • | | 15 | 1 | 500 | PUMP ROOM RECEPTACLES | 10 | | 4 |
| | | 11 | AIR CONDITIONER AC–L88 | 5760 | 2 | 30 | | • | 15 | 1 | – | SPARE | 12 | | |
| | | 13 | | | | | • | | – | 1 | – | | 14 | | |
| | | 15 | SPARE | – | 1 | 15 | | • | – | 1 | – | | 16 | | |
| | | 17 | | – | 1 | – | • | | – | 1 | – | | 18 | | |
| | | 19 | | – | 1 | – | | • | – | 1 | – | | 20 | | |
| | | 21 | | – | 1 | – | • | | – | 1 | – | | 22 | | |
| | | 23 | | – | 1 | – | | • | – | 1 | – | | 24 | | |
| | | | | | | | LOAD 'L1' 5,372 | | LOAD 'L2' 4,320 | | | | | | |

1 LIGHTING CONTROL JUNCTION BOX JBA–L74 PHOTOCELL LIGHTING SCHEMATIC
SCALE:NTS

| LUMINAIRE SCHEDULE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| TYPE | MANUFACTURER | MODEL No. | LAMPS | | VOLTS (V) | LOAD (W) | LUMENS | COLOUR | MOUNTING | NOTES |
| | | | QTY | TYPE | | | | | | |
| A | METALUX | 4VT2–LD5–6–DR–UNV–L840–CD1–WL–U C/W CHAIN VT2–CHAIN/SET–U (AS REUIRED) | 4 | LED | 120 | 51 | 6000 | 4000K | CS/CH | |
| B | METALUX | 2VT2–LD5–2–DR–UNV–L840–CD1–WL–U C/W CHAIN VT2–CHAIN/SET–U (AS REUIRED) | 8 | LED | 120 | 17 | 2000 | 4000K | CS | |
| C | LITHONIA | DSXW1 LED 10C 700 40K T3M 120 DDBXD BBW | 4 | LED | 120 | 26 | 2757 | 4000K | W | |
| D | METALUX | 2VT2–LD5–2–FR50–W–UNV–L840–CD1–WL–U | 2 | LED | 120 | 17 | 2000 | 4000K | W | |

MOUNTING LEGEND:
CH CHAIN HUNG R RECESSED
CS CEILING SURFACE W WALL
P PENDANT TRC THREADED ROD AND CHANNEL
AN AS NOTED ON DRAWING

## 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.
3. BATTERY RATED FOR 60MIN @100W.
4. PROVIDE GFCI CIRCUIT BREAKER.

## KEYNOTES:

1. 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 #12AWG AND BE INSTALLED AS PER SCHEMATIC DIAGRAM SHOWN.
2. PROVIDE AND INSTALL NEW OUTDOOR PHOTOCELL. PROVIDE 4C–#12AWG RW90 IN CONDUIT TO CONNECT PHOTOCELL TO PHOTOCELL JUNCTION BOX.

| LIGHTING CONTROL JUNCTION BOX JBA–L74 BILL OF MATERIALS | | | | |
|---|---|---|---|---|
| ITEM | QTY | DESCRIPTION | MANUFACTURER | MODEL No. |
| 1 | 1 | OUTDOOR PHOTOCELL | PRECISION | ST–15 SERIES |
| | 1 | SINGLE DOOR TYPE 12 & 13 WALL–MOUNTED ENCLOSURE, 16"H x 12"W x 6"D, C/W LAMACOID (ITEM 27) | HOFFMAN | A1612CH |
| 2 | 1 | BACKPAN, 16"H x 12"W | HOFFMAN | A16P12 |
| 3 | – | NOT USED | – | – |
| 4 | – | NOT USED | – | – |
| 5 | – | NOT USED | – | – |
| 6 | AS REQ'D | 35mm DIN RAIL | PHOENIX CONTACT | 0801733 |
| 7 | AS REQ'D | FEED THROUGH TERMINAL | PHOENIX CONTACT | 3046184 |
| 8 | AS REQ'D | FUSED TERMINAL | PHOENIX CONTACT | 3046142 |
| 9 | AS REQ'D | FUSE CONNECTOR | PHOENIX CONTACT | 3036806 |
| 10 | AS REQ'D | POTENTIAL–EARTH TERMINAL | PHOENIX CONTACT | 3046207 |
| 11 | AS REQ'D | TERMINAL END PLATE | PHOENIX CONTACT | 3047141 |
| 12 | AS REQ'D | TERMINAL END CLAMP | PHOENIX CONTACT | 1201442 |
| 13 | AS REQ'D | PLUG–IN BRIDGE | PHOENIX CONTACT | 3030365 |
| 14 | AS REQ'D | TERMINAL BLOCK MARKER | PHOENIX CONTACT | 1004348 |
| 15 | 2 | RELAY, 120VAC, SPDT, LED | OMRON | G2R–1–SN–AC120(S) |
| 16 | 2 | RELAY BASE, SPDT | OMRON | P2RF–05 |
| 17 | 1 | 3–POSITION SWITCH C/W LAMACOIDS (ITEM 19) 'MAN', 'OFF', AND 'AUTO' | SCHNEIDER ELECTRIC | HARMONY 9001K |
| 18 | 1 | 2–POSITION SWITCH C/W LAMACOIDS (ITEM 19) 'TEST', AND 'NORMAL' | SCHNEIDER ELECTRIC | HARMONY 9001K |
| 19 | AS REQ'D | LAMACOID, WHITE PLATE WITH BLACK TEXT | – | – |
| 20 | 1 | 0–10V DIMMER (MOUNTED EXTERNALLY) | LEVITON | IP710 |

2 LIGHTING CONTROL JUNCTION BOX JBA–L74 INTERIOR LIGHTING SCHEMATC
SCALE:NTS

3 LIGHTING CONTROL JUNCTION BOX JBA–L74 EMERGENCY LIGHTING SCHEMATIC
SCALE:NTS

| NO. | DRAWING NUMBER | REFERENCE DRAWING TITLE |
|---|---|---|

REFERENCE DRAWINGS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

B.M.
ELEV.

| NO. | REVISIONS | DATE (YYYY/MM/DD) | BY |
|---|---|---|---|
| 0 | ISSUED FOR CONSTRUCTION | 2023 03 24 | DDW |

KGS GROUP

| | | | |
|---|---|---|---|
| DESIGNED BY | A. NIRMAL | CHECKED BY | DDW |
| DRAWN BY | R. GASPAR | APPROVED BY | DDW |
| SCALE: HORIZONTAL | NTS | RELEASED FOR CONSTRUCTION | |
| VERTICAL | NTS | | |
| DATE | 2022/09/02 | DATE | |

PLOT DATE: 2023 03 23

ENGINEER'S SEAL
D.D. WILSON Member 22552 2023-03-23 REGISTERED PROFESSIONAL ENGINEER PROVINCE OF MANITOBA

CONSULTANT DRAWING NUMBER
22–0107–004–E11.01

BID OPPORTUNITY: 864-2022

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

METCALFE LIFT PUMPING STATION
2022 UPGRADES
ELECTRICAL

SCHEDULES AND PHOTOCELL DETAILS
PNL–L73 AND JBA–L74

CITY DRAWING NUMBER 1–0162L–E0011–001
SHEET 62 OF 109

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FILE NAME: 1-0162L-E0011-001.dwg