

# TRANSPORT CANADA SANDSPIT AIRPORT LIGHTING UPGRADE

SANDSPIT, BC

PR. #R.089425.001



SEAL:			
1	ISSUED FOR ADOPTION 1	2018/11/06	
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	Revisions / Description	Date	Issued By
	Client/Sheet		

Project title/Titre du projet  
**SANDSPIT, B.C.  
 TRANSPORT CANADA  
 SANDSPIT AIRPORT  
 LIGHTING UPGRADE**

Drawing No./Nbre du dessin  
**R.089425.001**

Sheet/Feuille  
**E000**

Revision no.  
**1**

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**E000**

Revision no.  
**1**

**DRAWING LIST**

E000 - COVER
E001 - SITE PLAN
E100 - AIR TERMINAL BUILDING - LIGHTING DEMOLITION
E101 - AIR TERMINAL BUILDING - LIGHTING RENOVATION
E102 - AIR TERMINAL BUILDING - PHOTOS
E200 - PARKING LOT LIGHTING REPLACEMENT
E201 - AIRPORT LIGHTING REPLACEMENT
E300 - COMBINED SERVICES BUILDING MAIN FLOOR PLAN - LIGHTING DEMOLITION
E301 - COMBINED SERVICES BUILDING UPPER FLOOR PLAN - LIGHTING DEMOLITION
E302 - COMBINED SERVICES BUILDING MAIN FLOOR PLAN - LIGHTING RENOVATION
E303 - COMBINED SERVICES BUILDING UPPER FLOOR PLAN - LIGHTING RENOVATION
E304 - COMBINED SERVICES BUILDING PHOTOS
E400 - SANDSPIT INN - LIGHTING DEMOLITION
E401 - SANDSPIT INN - LIGHTING RENOVATION
E402 - SANDSPIT INN - PHOTOS
E500 - LUMINAIRE SCHEDULE
E501 - PANEL SCHEDULES
E600 - DETAILS AND SINGLE LINE DIAGRAMS

**LIGHTING PLAN SYMBOLS**

<td>SURFACE MOUNTED OR SUSPENDED LED LUMINAIRE, 1x4'</td> <td></td> <td>DIRECTIONAL / AIMED LUMINAIRE (ARROW INDICATES DIRECTION)</td>	SURFACE MOUNTED OR SUSPENDED LED LUMINAIRE, 1x4'		DIRECTIONAL / AIMED LUMINAIRE (ARROW INDICATES DIRECTION)
<td>SURFACE MOUNTED OR SUSPENDED LED LUMINAIRE, 2x4'</td> <td></td> <td>TRACK LIGHT (Ø OF HEADS AS SHOWN, LENGTH AS INDICATED)</td>	SURFACE MOUNTED OR SUSPENDED LED LUMINAIRE, 2x4'		TRACK LIGHT (Ø OF HEADS AS SHOWN, LENGTH AS INDICATED)
<td>RECESSED LED LUMINAIRE, 1x4'</td> <td></td> <td>LOW VOLTAGE DIMMER SWITCH (200V OR LESS)</td>	RECESSED LED LUMINAIRE, 1x4'		LOW VOLTAGE DIMMER SWITCH (200V OR LESS)
<td>RECESSED LED LUMINAIRE, 2x2'</td> <td></td> <td>LINE VOLTAGE DIMMER SWITCH (220V TO 247V)</td>	RECESSED LED LUMINAIRE, 2x2'		LINE VOLTAGE DIMMER SWITCH (220V TO 247V)
<td>RECESSED LED LUMINAIRE, 4"</td> <td></td> <td>LINE VOLTAGE DIMMER SWITCH</td>	RECESSED LED LUMINAIRE, 4"		LINE VOLTAGE DIMMER SWITCH
<td>LED STRIP LUMINAIRE, 2"</td> <td></td> <td>WALL MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)</td>	LED STRIP LUMINAIRE, 2"		WALL MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)
<td>LED STRIP LUMINAIRE, 4"</td> <td></td> <td>WALL MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)</td>	LED STRIP LUMINAIRE, 4"		WALL MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)
<td>WALL MOUNTED LINEAR LED LUMINAIRE, 4"</td> <td></td> <td>DAYLIGHT SENSOR (INTERIOR PHOTOCELL, TYPE AS INDICATED)</td>	WALL MOUNTED LINEAR LED LUMINAIRE, 4"		DAYLIGHT SENSOR (INTERIOR PHOTOCELL, TYPE AS INDICATED)
<td>WALL MOUNTED LINEAR LED LUMINAIRE, 3"</td> <td></td> <td>COMBINATION EXIT SIGN/EMERG. LITG. BATTERY PACK</td>	WALL MOUNTED LINEAR LED LUMINAIRE, 3"		COMBINATION EXIT SIGN/EMERG. LITG. BATTERY PACK
<td>WALL MOUNTED LINEAR LED LUMINAIRE, 2"</td> <td></td> <td>EMERG. LITG. BATTERY PACK (Ø OF LAMPS AS SHOWN)</td>	WALL MOUNTED LINEAR LED LUMINAIRE, 2"		EMERG. LITG. BATTERY PACK (Ø OF LAMPS AS SHOWN)
	RECESSED LUMINAIRE / POT LIGHT, LESS THAN 6" DIAMETER		WALL MOUNTED EMERG. LITG. REMOTE HEAD (Ø OF LAMPS AS SHOWN)
	SURFACE MOUNTED OR SUSPENDED LUMINAIRE		CEILING MOUNTED EMERG. LITG. REMOTE HEAD (Ø OF LAMPS AS SHOWN)
	WALL MOUNTED LUMINAIRE (SINGLE HEAD)		POLE MOUNTED LUMINAIRE (DOUBLE HEAD)
	ELECTRICAL PANEL BOARD		

**GENERAL RENOVATION NOTES:**

- EMERGENCY LIGHTING BATTERY PACKS - ELECTRICAL CONTRACTOR TO VERIFY BATTERY PACKS ARE FUNCTIONAL. CONTRACTOR TO DISCOVERED DURING RENOVATION. ALLOW FOR REPLACEMENT OF BATTERY PACKS. STEEL BATTERY BINS WITH TWO HEADS PER BUILDING HEADS PER BUILDING (48 IN TOTAL). ALL UNUSED BATTERY PACKS AND HEADS TO BE TURNED OVER TO TRANSPORT CANADA.
- ALL EXISTING LINE SWITCHES TO BE REPLACED WITH NEW DECORA STYLE SWITCHES. LINE VOLTAGE DIMMERS AND PIR/AUTOMATIC DUAL TECHNOLOGY ON/OFF/AUTO OCCUPANCY SENSOR SWITCHES AS DRAWINGS. ALLOW AN ADDITIONAL 10 LINE VOLTAGE SWITCHES. 4 SPARE LINE VOLTAGE DIMMERS, 3 SPARE LINE VOLTAGE OCCUPANCY SENSOR SWITCHES TO ACCOUNT FOR SWITCHES NOT SHOWN ON DRAWINGS.
- ALL EXIT SIGNS TO BE REPLACED WITH NEW, ULTRIX STEEL, SELF POWERED 120V EXIT SIGNS THROUGHOUT.
- ELECTRICAL CONTRACTOR TO DETERMINE EXISTING LIGHTING CIRCUITS OR SOURCE INFORMATION SHOWN ON DRAWINGS IS FOR REFERENCE ONLY, AND ALL LABELING FOUND ON SITE IS TO BE CORRECTED PRIOR TO COMMENCEMENT OF WORK IN THAT AREA.
- UNLESS OTHERWISE NOTED, ALL EXISTING LUMINAIRES BEING REMOVED ARE TO BE REMOVED FROM SITE AND DISPOSED OF/RECYCLED BY CONTRACTOR.
- ALL EXISTING WIRING, CONDUIT, HARDWARE, ETC BEING REMOVED IS TO BE REMOVED FROM SITE AND DISPOSED OF/RECYCLED BY CONTRACTOR.

**BC HYDRO ENERGY INCENTIVES**

ALL NEW LUMINAIRES QUALIFY FOR BC HYDRO ENERGY CONSUMPTION REDUCTION INCENTIVES. CONTRACTOR TO PROVIDE FULL ASHRAE COMPLIANCE FOR HYDRO AND PROVIDE ALL REQUIRED DOCUMENTATION ON BEHALF OF TRANSPORT CANADA. REFER TO SUMMARY OF WORK SPECIFICATION SECTION FOR MORE INFORMATION.

**ASHRAE 90.1 COMPLIANCE**

LIGHTING RENOVATION HAS BEEN DESIGNED TO ACHIEVE FULL ASHRAE 90.1 COMPLIANCE. CONTRACTOR TO VERIFY ALL EXISTING, NON-ASHRAE COMPLIANT ALL BUILDINGS AND ALL AREAS, AS THE EXISTING, NON-ASHRAE COMPLIANT AREAS WHERE RENOVATION IS LIMITED TO SWITCH REPLACEMENT WILL ACHIEVE COMPLIANCE WITH 9.4.1 WHERE NEW OCCUPANCY SENSORS ARE PROVIDED. HOWEVER, SINCE THE EXISTING LIGHTING CONTROL WIRING IS NOT INCLUDED PER EXISTING CONDITION, ASHRAE COMPLIANCE WILL REMAIN AS PER EXISTING CONDITION.

EXTERIOR LIGHTING POWER ALLOWANCES ARE WITHIN VALUES PROVIDED BY TABLE 9.4.3(B).

OTB AREAS SERVED BY NEW LOW VOLTAGE LIGHTING CONTROL SYSTEMS ARE TO BE SERVED BY NEW LOW VOLTAGE LIGHTING CONTROL SYSTEMS. OCCUPANCY SENSING AND DAYLIGHT DIMMING AS REQUIRED.

AREAS WHERE RENOVATION IS LIMITED TO SWITCH REPLACEMENT WILL ACHIEVE COMPLIANCE WITH 9.4.1 WHERE NEW OCCUPANCY SENSORS ARE PROVIDED. HOWEVER, SINCE THE EXISTING LIGHTING CONTROL WIRING IS NOT INCLUDED PER EXISTING CONDITION, ASHRAE COMPLIANCE WILL REMAIN AS PER EXISTING CONDITION.

