

### DRAWING NOTES

- PROPOSED LOCATION FOR 500KVA PADMOUNT TRANSFORMER SUPPLIED BY HYDRO OTTAWA. SECONDARY: 347/600V. 3ø. 4W. GENERAL CONTRACTOR TO PROVIDE PAD C/W MANHOLE, CONCRETE BASE AND PAD. PROVIDE GROUNDING C/W BOLLARDS AS PER HYDRO OTTAWA STANDARD. TRANSFORMER SHALL BE MÍN. 2M AWAY FROM THE CURB. CONTACT AND COORDINATE HYDRO OTTAWA PROJECT MANAGER AND HYDRO OTTAWA CIVIL INSPECTOR AT START OF THE
- DIRECT BURIED SECONDARY FEEDERS IN PVC DUCTS. REFER TO RISER DIAGRAM DRAWING E003 AND DETAIL 3/E002. SECONDARY FEEDERS REQUIRE COMPRESSION TYPE CONNECTORS AT THE PADMOUNT TRANSFORMER.
- 2-100MM DIRECT BURIED PVC DUCT FOR TELEPHONE SERVICE FROM EXISTING BELL/ROGERS PEDESTAL AND 1-100MM DIRECT BURIED PVC DUCT FOR FIBRI OPTIC SERVICE FROM NEW ROGERS (ATRIA NETWORK) PEDESTAL TO BACKBOARD IN GROUND FLOOR TELECOM ROOM. SEE DETAIL 4/E002. COORDINATE WORK WITH SERVICE PROVIDER.
  - EXTERIOR LIGHT STANDARDS. SEE DETAIL 2/E002 AND LIGHT FIXTURE SCHEDULE. PROVIDE RELAY AND CONTROL BY BAS.
- TYPICAL .
  BUILDING WALL MOUNTED EXTERIOR FULL CUT-OFF LIGHT FIXTURE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT. PROVIDE RELAY AND CONTROL BY BAS.
- RUN DIRECT BURIED 3-100MM PVC CONDUITS, CAPPED AND C/W PULL CORDS FOR POWER FROM MAIN ELECTRICAL ROOM TO SERVICE MANHOLE C/W COVER FOR FUTURE PORTABLES AS SHOWN. SEE DETAIL 5/E002.
- RUN DIRECT BURIED 2-100MM PVC CONDUITS C/W PULL CORDS AND TERMINATE IN MANHOLE C/W COVER, FOR SECURITY, DATA, PA/INTERCOM AND FIRE ALARM FROM SERVICE ROOM TO SERVICE MANHOLE FOR FUTURE PORTABLES. SEE DETAIL 6/E002.
- PORTABLE SERVICE MANHOLES EQUAL TO USI E1B+E3 COMBO C/W COVER BY GENERAL TRADES. ONE FOR POWER AND ONE FOR DATA/SECURITY/FIRE ALARM. ELECTRICAL CONTRACTOR TO COORDINATE ALL CONDUIT KNOCK OUTS.
- OUTDOOR P.A. HORN C/W WIREGUARD. PROVIDE 21MM CONDUIT TO ACCESSIBLE CEILING SPACE. WIRING BY P.A. SYSTEM CONTRACTOR.
- PROVIDE 3 CELL PRIMARY CONCRETE ENCASED DUCTBANK C/W PULL ROPE TO HYDRO OTTAWA STANDARDS. ALLOW FOR 12 METERS LENGTH. COORDINATE EXACT RUN WITH HYDRO OTTAWA.
- PROVIDE TWO ELECTRIC VEHICLE CHARGING STATION AS CORE+ C/W WEATHERPROOF NEMA 4 ENCLOSURE C/W AND PEDSTAL. PROVIDE 30A-2P BREAKERS C/W 3#8+GND-27MM C/W UNDERGROUND PVC CONDUIT AND CONNECT TO 120/208V PANEL. CCT # AS INDICATED. REFER TO ARCHITECTURAL DRAWINGS FOR BASE DETAIL. PROVIDE SIGNAGE ON PEDESTAL "EV CHARGING STATION".
- PROVIDE 30A-2P BREAKER C/W 3#8+GND-27MM C/W UNDERGROUND PVC CONDUIT FROM 120/208V PANEL AND TERMINATE IN WEATHERPROOF JUNCTION BOX FOR FUTURE VEHICLE CHARGING STATION.

FINISHED GRADE

- APPROVED COMPACTED BACKFILL

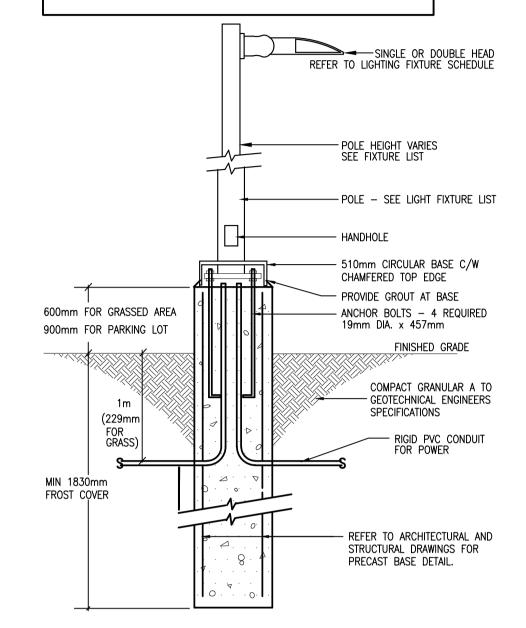
- 2-103mm TYPE BD2 PVC DUCTS

-6mm NOMINAL SCREENED SAND

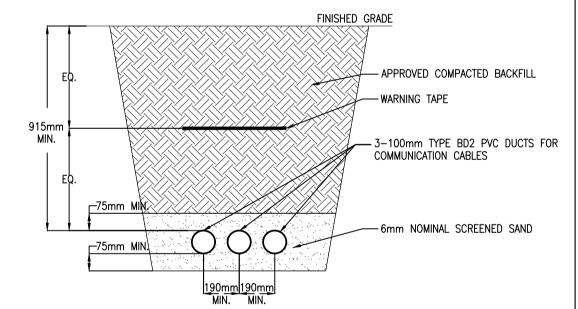
FOR SECONDARY CABLES

#### **GENERAL NOTES:**

- COORDINATE BURIED SERVICES WITH ALL OTHER SERVICES (WATER, SEWER, GAS, HYDRO, TELEPHONE, CABLE, ETC.) REFER TO RELATED SITE SERVICES DRAWINGS.
- COORDINATE WITH UTILITY AND TELEPHONE/CATV SERVICES FOR
- LOCATION AND FINAL CONDUIT REQUIREMENTS. COORDINATE LOCATION OF LIGHTING FIXTURES WITH LANDSCAPE
- EXCAVATION, BACKFILL AND CONCRETE, REINFORCING ASSOCIATED WITH ELECTRICAL WORK TO BE BY GENERAL CONTRACTOR.
- USE PVC FOR UNDERGROUND ONLY. CHANGE TO EMT INSIDE
- PROVIDE PVC/EMT TRANSITION ADAPTORS AT EXTERIOR TO INTERIOR CONDUITS.

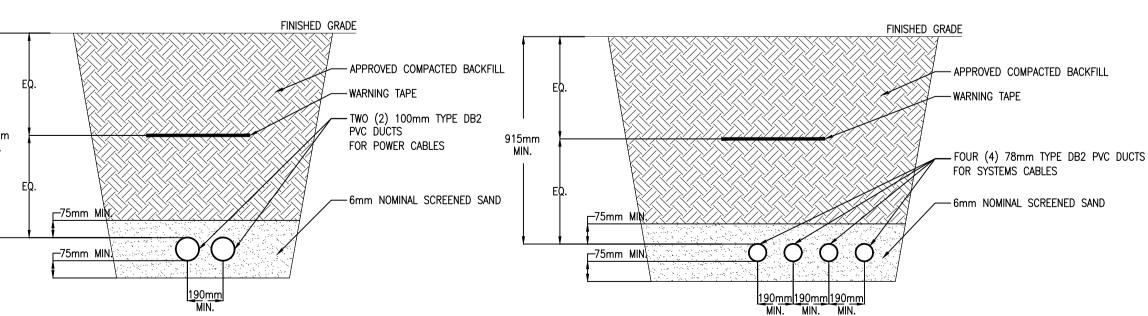


# BASE DETAIL FOR EXTERIOR LIGHT STANDARD E002 **N.T.S.**



## **NOTES:**

- 1. TRENCH AND DUCTS TO BE INSPECTED PRIOR TO SAND FILL BEING PLACED.
- 2. MAKE PROVISIONS FOR WORKING IN SANDY TERRAIN.
- 3. DUCT JOINTS TO BE GLUED USING AN APPROVED PVC SOLVENT, WHEN APPLICABLE. 4. ALL DUCTS MUST BE CLEANED AND RODDED, AND A NYLON ROPE TO BE LEFT IN
- **COMMUNICATION DUCT** E002 **N.T.S.**



TRENCH AND DUCTS TO BE INSPECTED PRIOR TO SAND FILL BEING PLACED.

SECONDARY DUCT

- MAKE PROVISIONS FOR WORKING IN SANDY TERRAIN.
- 3. DUCT JOINTS TO BE GLUED USING AN APPROVED PVC SOLVENT, WHEN APPLICABLE.
- 4. ALL DUCTS MUST BE CLEANED AND RODDED, AND A NYLON ROPE TO BE LEFT IN
- ALL DUCTS SHALL BE TERMINATED IN MANHOLE, USI-E22 C/W COVER. EACH DUCT.

DIRECT BURRIED SEVICES TO FUTURE PORTABLES N.T.S.

## **NOTES:**

- 1. TRENCH AND DUCTS TO BE INSPECTED PRIOR TO SAND FILL BEING PLACED.
- 2. MAKE PROVISIONS FOR WORKING IN SANDY TERRAIN.
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- 5. ALL DUCTS SHALL BE TERMINATED IN MANHOLE, USI-E22 C/W COVER.

DIRECT BURRIED SEVICES TO FUTURE PORTABLES



2021-11-23 | ISSUED FOR SITE PLAN CONTROL

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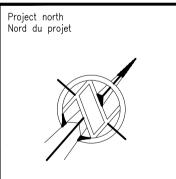
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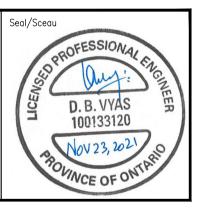
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GOODKEY WEEDMARK & ASSOCIATES LIMITED 1688 Woodward Dr. Ottawa Ontario 613 727-5111 613 727-5115 anada K2C 3R8 www.gwal.com





Reviewed by

Examiné par

DATE

OCSB BARRHAVEN #1 **ELEMENTARY SCHOOL** 

Drawing title/Titre du dessin ELECTRICAL SITE PLAN

Project no./No. du projet 2021-123-1 Drawing/Dessin J. GUAN Conçu par Drawn by

D. VYAS Acad file/Fichier: November 21 Z:\2021-123-1\ELE



Symbol	Label	lmage	Quantity	Manufacturer	Catalog Number	Description	Lumens Per Lamp	Light Loss Factor	Wattage
	А	Affordamen Subsell Educior Cele_LineagerLinep	2	Lithonia Lighting	RSX2 LED P3 40K R4	RSX Area Fixture Size 2 P3 Lumen Po 4000K CCT Type R4 Distribution	cka2g2e020	0.9	149.98
	A-HS	Afterhoren Salvel Edustr Cole.Jinogelämp	2	Lithonia Lighting	RSX2 LED P3 40K R4	RISIX Area Fixture Size 2 P3 Lumen Po 4000K CCT Type R4 Distribution with H Shield		0.9	149.9762
$\bigcirc$	В	Affections Sided Edinfor Cds_ScapeShop	3	Lithonia Lighting	RADPT P2 40K PATH F	RPADEAN Post—Top with P2 4000K Path distribution with right rotated optics	way4146	0.9	38.0107
	С	Apprehens Sided Edinfor Cds_ScapeLamp	9	Lithonia Lighting	DSXW1 LED 20C 1000 40K T4M MVOLT	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T4M OPTIC, 4000K, @ 1000mA.	7420	0.9	73.2
	C1	Afterhouse Stated Educir Cale, Suspillarsp	2	Lithonia Lighting	DSXW1 LED 10C 1000 40K T2M MVOLT	DSXW1 LED WITH (1) 10 LED LIGHT ENGINES, TYPE T2M OPTIC, 4000K, @ 1000mA.	3771	0.9	38.8
$\bigcirc$	D		4	Lithonia Lighting	LBR6 ALO2 (2000LM) SWW1 (4000K) AR LSS MWD 80CRI	6IN LBR Retrofit 2000LM 4000K Clear —Specular Medium Wide 80CRI	Sen2i541	0.9	25.15

Avg

14.8 fc

2.3 fc

0.1 fc

1.2 fc

Max

18.0 fc

7.0 fc

0.5 fc

6.0 fc

12.8 fc

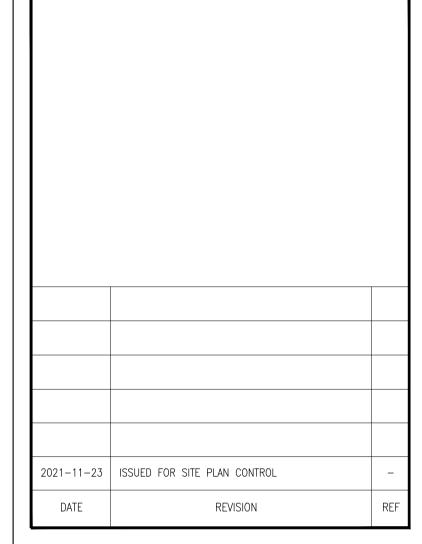
0.6 fc

0.0 fc

0.0 fc

Symbol





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Max/Min | Avg/Min

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3.8:1

N/A

N/A

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11.7:1

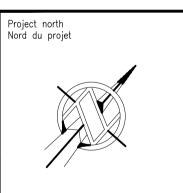
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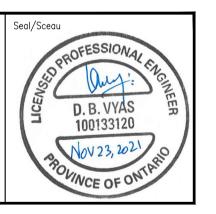
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D'OBTENIR ET / OU DE SUIVRE LES CONSEILS DE L'INGÉNIEUR EN CE QUI CONCERNE LES ERREURS, OMISSIONS, INCONSISTANCES, AMBIGUITÉS OU CONFLITS CE DESSIN EST LA PROPRIÉTÉ LITTÉRAIRE DE GOODKEY WEEDMARK & ASSOCIATES LIMITED ET TOUS LES DROITS SONT RÉSERVÉS. L'UTILISATION EST INTERDITE SANS LE CONSENTEMENT ÉCRIT DE L'AUTEUR. NE PAS MESURER LES DESSINS A L'ÉCHELLE



GOODKEY WEEDMARK & ASSOCIATES LIMITED 1688 Woodward Dr. Ottawa Ontario Canada K2C 3R8 613 727—5111 Voice 613 727—5115 Fax www.gwal.com





OCSB BARRHAVEN #1 **ELEMENTARY SCHOOL** 

Drawing title/Titre du dessin SITE LIGHTING CALCULATION

Scale	AC NOTED
Échelle	AS NOTED
Design by	J. GUAN
Conçu par	J. GUAN
Drawn by	J. GUAN
Dessiné par	J. GUAIN
Reviewed by	D. VYAS
Examiné par	D. VIAS

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par	U. GOAN				
by	J. GUAN	Drawing/Dessin			
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