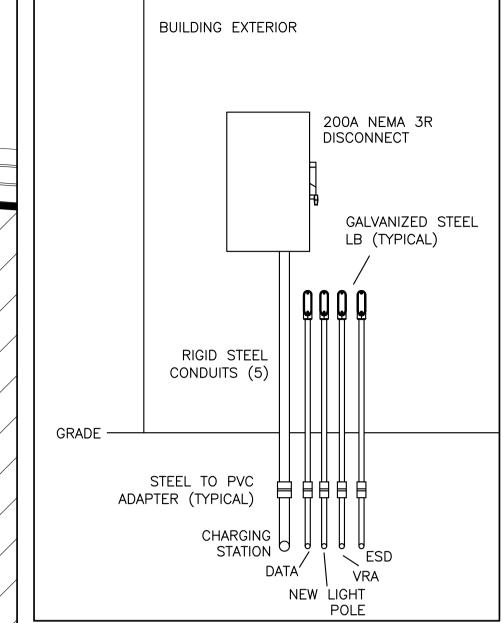


ELECTRICAL SITE WORK

SCALE: 1:250

E01



EXTERIOR CONDUIT DETAIL E01 SCALE: N.T.S.

## DRAWING NOTES $\bigcirc$

- 1. 240V CIRCUIT FOR VRA ROUGH-IN ORIGINATING FROM PANEL LDX. REFER TO SINGLELINE. TERMINATE IN 150MMX150MM WEATHERPROOF PVC JUNCTION BOX MOUNTED TO GALVANIZED STEEL STRUCTURE AT 600MM ABOVE FINISHED CONCRETE PAD. REFER TO DETAIL 2/E02.
- 2. 120V CIRCUIT FOR EMERGENCY SHUTDOWN DEVICE (ESD) ROUGH-IN ORIGINATING FROM PANEL LX1. REPLACE ONE EXISTING 1P15A BREAKER WITH TANDEM STYLE BREAKER AND CIRCUIT FROM THERE USING 2 #10 WIRE + GRD IN 27mm EMT ON INTERIOR OF BUILDING, RIGID STEEL ON EXTERIOR AND 27mm PVC CONDUIT UNDERGROUND. TERMINATE IN 150MMX150MM WEATHERPROOF PVC JUNCTION BOX MOUNTED TO GALVANIZED STEEL STRUCTURE AT 600MM ABOVE FINISHED CONCRETE PAD. REFER TO DETAIL 2/E02.
- 3. 208V, 3Ø POWER FOR ELECTRIC VEHICLE CHARGING STATION ORIGINATING IN PANEL P4. REFER TO SINGLELINE.
- 4. EXISTING 347V CIRCUIT FOR EXISTING STREET LIGHTS FED FROM EPD2 IN THIS JUNCTION BOX. NEW LIGHT POLE IS TO BE CIRCUIT FROM THE SAME CIRCUIT. SPLICE INTO CIRCUIT IN THIS LOCATION AND RUN 2 #10 + GRD IN 27mm EMT TO GALVANIZED STEEL LB & CONDUIT AND THEN UNDERGROUND TO NEW LIGHT POLE USING 27mm PVC.
- 5. 75kVA TRANSFORMER LOCATED AT HIGH LEVEL AND FUSED DISCONNECT TO LEVEL 3 EV CHARGING STATION. REFER TO DETAIL 4/E02 FOR TRANSFORMER MOUNTING
- 6. CONCRETE PAD FOR ELECTRIC VEHICLE CHARGING STATION BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR TO ENSURE MOUNTING BOLTS AND CONDUIT FOR CHARGING STATION ARE LOCATED CORRECTLY, PER DETAIL 3/E02.
- 7. NEW LIGHT & POLE. CONCRETE BASE BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR TO ENSURE ANCHOR BOLTS AND CONDUIT ARE LOCATED CORRECTLY, PER THE DETAIL ON DRAWING E01.
- 8. ROUGH-INS FOR VRA AND ESD.
- 9. NEW 27mm CONDUIT. BEGIN RUN NEXT TO EXISTING CABLE TRAY. INSTALL BUSHING AND GROUND LUG ON THIS END. ROUTE TO CHARGING STATION AS SHOWN. EMT INSIDE BUILDING, RIGID STEEL ON EXTERIOR AND PVC IN TRENCH. INSTALL PULL CORD. REFER TO DETAIL 3/E01 FOR EXTERIOR ROUTING DETAIL.
- 10. MOUNT METER AND CTs FOR VRA CIRCUIT ON WALL NEAR PANEL LDX. METER TO MEASURE kWH. TO BE INSTALLED ON PRIMARY SIDE OF TRANSFORMER. LABEL AS "VRA METER". REFER TO SPECIFICATIONS FOR METER, CT AND ENCLOSURE DETAILS.
- 11. MOUNT METER AND CTS FOR EV CHARGING STATION CIRCUIT ON WALL NEAR PANEL P4. METER TO MEASURE KWH. TO BE INSTALLED ON PRIMARY SIDE OF TRANSFORMER. LABEL AS "EV CHARGING STATION METER". REFER TO SPECIFICATIONS FOR METER, CT ANI ENCLOSURE DETAILS.
- 12. EXISTING CABLE TRAY.

de recherches Canada administratifs et gestion de l'immobilier and Property Management

# RC-CRC

### **GENERAL NOTES**

- READ THIS DRAWING IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
- CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO NRC DEPARTMENTAL REPRESENTATIVE.
- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- COORDINATE ALL SHUTDOWNS WITH THE NRC DEPARTMENTAL REPRESENTATIVE.
- FILL ALL HOLES, PATCH & PAINT ALL SURFACES IN CONTRACT AREA. COLOUR SCHEME TO MATCH EXISTING.
- REMOVE MEANS REMOVE AND DISPOSE OF OFF SITE UNLESS OTHERWISE NOTED.
  - PROVIDE LABELS TO NEW DEVICES TO INDICATE POWER SOURCE. UPDATE PANEL SCHEDULES AFTER JOB COMPLETION.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR FINAL PLACEMENT OF LIGHT FIXTURES.
- ALL WIRE TO BE IN EMT UNLESS OTHERWISE NOTED.

1	28 04 2014	ADDENDUM #1		DIF		
0	22 04 2014	ISSUED FOR TENDER		DIF		
No.	Date	Revision		By: Par:		
Date Printed Date imprimée						

Date imprimée

• Verify all dimensions and site conditions and be responsible o Vérifier toutes les dimensions et l'etat des liéux et en assumer la responsabilité

A Detail no. No. du détail C Drawing no.

B Location drawing no. sur dessin no.

U-85- CNG FILLING AND ELECTRICAL CHARGING STATIONS

### AST CAMPUS

ELECTRICAL PLANS AND DETAILS

designed		conçu	date		date
	DIF		MA	.R. 2014	
drawn		dessiné	scale		échelle
	DIF		AS NOTED		
checked	o v o	vérifié	sheet		feuille
	C.Y.C.		E01	of/de <b>2</b>	
approved		approuvé	W.O.no.		D.T.no.
	B.V.		A1-004334-11		

dessin no.

3903-E01

FED FROM PANEL PD1 IN BASEMENT ELECTRICAL ROOM -NEW WORK ARM EXH. PANEL P5 FAN RM FED FROM PANEL PDX1 3 4 EV CHARGING STATION VIA TRANSFORMER T-763 IN ROOM 148 SPACE EV STATION METER 3P90A T-1084 - METER BARCORP LATHE 3C #3 + GRD TECK CABLE COLCHESTER 7 8 T-1051 MEZZ RM 117 FEEDS SPACE SPACE LATHE DRY TYPE -NEW WORK PANEL L11 RM 112 75 KVA  $\sim\sim$ ⅃⅃120/208V. RM.160 <sup>L</sup> LILAN LATHE SPACE 4 250MCM + SPACE SPACE GRD IN 63mm PDX1 SPACE 2 #6 + GRD IN ROOM 148 200A DISCONNECT 6 T-1083 CNG VRA UNI ADDITION 27mm EMT VRA CIRCUIT METER FUSED AT 175A PARKING LOT METER SPACE SPACE 50A.,2P. 3 #3/0 + GRD IN SPARE PANEL T-1083 53mm EMT LX1 BUCK/BOOST 1.5 KVA | ~~~~ SPACE SPACE RM.148 + \_\_\_\_ 240V 100A.,3P. 200A, NEMA 3R 100A..3P. DISCONNECT ON PANEL PANEL EXTERIOR OF BUILDING 2 #6 + GRD IN 27mm EMT IN SPACE SPACE LX2 LX4 BUÏLDING, 27mm RIGID STEEL ON 3 # 3/0 + GRD IN 53mmEXTERIOR OF BUILDING AND PVC 100A.,3P. 100A.,3P. RIGID STEEL ON EXTERIOR DUCT IN TRENCH OF BUILDING AND 53mm SPACE SPACE PANEL LDX PVC DUCT IN TRENCH ☐ 150mm X 150mm WEATHERPROOF 225A.,120/208V.,3PH.,4W. PVC JUNCTION BOX MOUNTED TO EV CHARGING STATION SQUARE D: I-LINE J GALVANIZED STEEL STRUCTURE AT PANEL P4 SUPPLIED BY NRC. 600mm ABOVE FINISHED ROOM 148 INSTALLATION BY ELECTRICAL 800A., 600V.,3PH,4W CONCRETE PAD. CONTRACTOR. REFER TO SQUARE D: I-LINE INSTALLATION MANUAL ROOM 110 INCLUDED IN SPECIFICATION. PARTIAL SINGLELINES SCALE: N.T.S.



-COORDINATE EXACT LOCATION ON SITE.

HANDHOLE C/W

KTK FUSES

COVER

457MM

NEW STREET LIGHT CONSISTING OF:

CONTROL. REFER TO SPECIFICATIONS.

-ANCHOR BOLTS AND SLEEVES.

-CONCRETE BASE AS SHOWN.

-TRENCH AS SHOWN.

-WIRING AS SHOWN.

ASPM A1 (841x594)

CCT: EPD2

SPECIFICATIONS.

305MM

GRADE -

1830MM

ELASTIMOLD D64

FUSE HOLDER C/W

CONCRETE BASE BY

5-1/2" DIAM. STEEL

VERŤICAL: 8-3/4" DIAM. STEEL

27mm CONDUIT

REINFORCING:

HORIZONTAL:

-7620MM (25') SQUARE STRAIGHT STEEL POLE, REFER TO

-210W LED LUMINAIRE: FULL CUTOFF, C/W PHOTO

-ELASTIMOLD D64 FUSE HOLDERS, 5A KTK FUSES.

BY GENERAL CONTRACTOR

€01

SCALE: 1:200

0 10 20mm 40 60 80 100 120 140 160 180 200m