

CUSTOM POLE BASES MAY BE REQUIRED TO MITIGATE UTILITY CONFLICTS

EQUIPMENT LOCATIONS APPROXIMATE. TO BE ADJUSTED DURING 100% DESIGN

**LEGEND**

- PROPOSED DAVIT STREETLIGHT POLE (8.1m - LED LUMINAIRE, WATTAGE AS PER TABLE A) CW SERVICE PANEL & METER ON A CITY OF RICHMOND TYPE P1 CONCRETE BASE CW WORKING PAD (1000mm (L) X 100mm (D) X 600mm (W)). ( ) INDICATES TYPE E1 SPREAD FOOTING BASE AS PER MINISTRY STANDARD SPEC SP63.1.1.4
- PROPOSED DAVIT STREETLIGHT POLE (9.0m - LED LUMINAIRE, WATTAGE AS PER TABLE A) ON A CITY OF RICHMOND TYPE P1 CONCRETE BASE.
- EXISTING DAVIT STREETLIGHT POLE (9.1m CW LED LUMINAIRE), REMOVE EXISTING LUMINAIRE AND INSTALL NEW AS PER TABLE A.
- PROPOSED PLASTIC JUNCTION BOX (NOVA POLE P28-JB-B00-01 BOX SECTION WITH P28-CO-ST-B00-01 GALV. STEEL LID)
- EXISTING ELECTRICAL KIOSK
- EXISTING JUNCTION BOX
- PROPOSED 2 No. 6 RW90 LTG. AND 1 No. 8 BOND IN 1-35mm RPVC
- PROPOSED 3 No. 6 RW90 LTG. AND 1 No. 8 BOND IN 1-35mm RPVC
- PROPOSED 53mm RPVC STUB OUT (CAP AND MARK LOCATION)
- EXISTING CONDUIT AND CONDUCTORS
- A, B, C** LUMINAIRE ON PHASE A, B OR C CONDUCTOR (347/600V)
- R, B** LUMINAIRE ON PHASE R OR B CONDUCTOR (120/240V)

**NOTES**

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, THE CANADIAN ELECTRICAL CODE (UNLESS OTHERWISE NOTED).
2. ALL STREETLIGHTS ARE TO BE 1.5m CLEAR OF ALL DRIVEWAYS.
3. ALL CONDUCTORS SHALL BE RW90 XLPE STRANDED COPPER. COLOUR CODED AS NOTED.

EXISTING STREET LIGHTING SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION.

**347/600V**

PERMIT TO PRACTICE NUMBER: 1000771  
ENGINEERS AND GEOSCIENTISTS BRITISH COLUMBIA

**NOT FOR CONSTRUCTION**  
2022-08-09

LIGHTING DESIGN TABLE A	
ITEM	DESCRIPTION
LIGHTING PROGRAM	AGI32
STREET NAME(S)	PORTSIDE ROAD
LAND USE	INDUSTRIAL
ROADWAY CLASSIFICATION	COLLECTOR
PEDESTRIAN CONFLICT AREA	MEDIUM
LAMP WATTAGE & LIGHT SOURCE	113W LED (4000K)
LIGHT LOSS FACTOR	0.8
LUMINAIRE DISTRIBUTION TYPE	TYPE 3
LUMINAIRE BUG RATING	B3-U0-G3
POLE SPACING (MAX)	45m (ONE SIDED)

ILLUMINANCE DESIGN CRITERIA - ROADWAY		
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES
ILLUMINATION LEVEL (Eavg) IN LUX	9.0	13.4
UNIFORMITY RATIO (Eavg/Emin)	4.0:1	2.6:1

LUMINANCE DESIGN CRITERIA - ROADWAY		
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES
LUMINANCE LEVEL (Lavg) IN cd/m <sup>2</sup>	0.6	0.6
UNIFORMITY RATIO (Lavg/Lmin)	3.5:1	1.8:1
UNIFORMITY RATIO (Lmax/Lmin)	6.0:1	2.8:1
VEILING LUMINANCE RATIO (LVmax/Lavg)	0.4:1	0.2:1

ILLUMINANCE DESIGN CRITERIA - MUP		
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES
ILLUMINATION LEVEL (Eavg) IN LUX	5.0	6.2
UNIFORMITY RATIO (Eavg/Emin)	5.0:1	1.3:1

\*\* ROADWAY LIGHTING CONTRIBUTING TO PATHWAY LIGHTING LEVELS.

LIGHTING DESIGN TABLE B	
ITEM	DESCRIPTION
LIGHTING PROGRAM	AGI32
STREET NAME(S)	PORTSIDE ROAD OVERPASS
LAND USE	INDUSTRIAL
ROADWAY CLASSIFICATION	COLLECTOR
PEDESTRIAN CONFLICT AREA	MEDIUM
LAMP WATTAGE & LIGHT SOURCE	105W LED (3000K)
LIGHT LOSS FACTOR	0.8
LUMINAIRE DISTRIBUTION TYPE	TYPE II
LUMINAIRE BUG RATING	B3-U0-G3
POLE SPACING (MAX)	88m (STAGGERED)

ILLUMINANCE DESIGN CRITERIA - ROADWAY		
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES
ILLUMINATION LEVEL (Eavg) IN LUX	9.0	14.9
UNIFORMITY RATIO (Eavg/Emin)	4.0:1	1.9:1

LUMINANCE DESIGN CRITERIA - ROADWAY		
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES
LUMINANCE LEVEL (Lavg) IN cd/m <sup>2</sup>	0.6	1.1
UNIFORMITY RATIO (Lavg/Lmin)	3.5:1	1.4:1
UNIFORMITY RATIO (Lmax/Lmin)	6.0:1	2.1:1
VEILING LUMINANCE RATIO (LVmax/Lavg)	0.4:1	0.2:1

ILLUMINANCE DESIGN CRITERIA - SIDEWALK		
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES
ILLUMINATION LEVEL (Eavg) IN LUX	5.0	9.9
UNIFORMITY RATIO (Eavg/Emin)	5.0:1	2.3:1

\*\* ROADWAY LIGHTING CONTRIBUTING TO PATHWAY LIGHTING LEVELS.

LIGHTING DESIGN TABLE C	
ITEM	DESCRIPTION
LIGHTING PROGRAM	AGI32
STREET NAME(S)	PORTSIDE ROAD EXTENSION
LAND USE	INDUSTRIAL
ROADWAY CLASSIFICATION	COLLECTOR
PEDESTRIAN CONFLICT AREA	MEDIUM
LAMP WATTAGE & LIGHT SOURCE	113W LED (4000K)
LIGHT LOSS FACTOR	0.8
LUMINAIRE DISTRIBUTION TYPE	TYPE II
LUMINAIRE BUG RATING	B3-U0-G3
POLE SPACING (MAX)	57m (ONE SIDED)

ILLUMINANCE DESIGN CRITERIA - ROADWAY		
ITEM	RECOMMENDED VALUES	ACHIEVED VALUES
ILLUMINATION LEVEL (Eavg) IN LUX	9.0	9.7
UNIFORMITY RATIO (Eavg/Emin)	4.0:1	2.9:1

**OVERHEAD POWER LINE CONFLICTS**  
CONTRACTOR SHALL CONFIRM ON SITE PRIOR TO CONSTRUCTION THAT POLES & EQUIPMENT WILL MEET WorkSafeBC CLEARANCE REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING POLES AND INSTALLING CONCRETE BASES.

**CHECK BEFORE YOU DIG**  
CONTRACTOR SHALL REFER TO MUNICIPAL RECORD / CIVIL DESIGN DRAWINGS FOR ALL OTHER UTILITIES, SERVICE LOCATIONS, AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING BASES.

**LOCATING EQUIPMENT**  
FOR CLARITY CONDUITS, JUNCTION BOXES AND STREETLIGHT POLES MAY NOT BE SHOWN AT DESIGN OFFSETS. CONTRACTOR SHALL LOCATE ALL EQUIPMENT BASED ON STATIONS AND/OR OFFSETS AS NOTED AND SHALL NOT RELY ON COORDINATES OBTAINED FROM DMD DIGITAL DRAWINGS. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING EQUIPMENT.

**CAUTION! EXCAVATION NEAR OVERHEAD UTILITY POLE**  
ANY UNDERGROUND EXCAVATION WITHIN SOIL FOUNDATION INTERACTION AREA REQUIRES TEMPORARY UTILITY POLE SUPPORT. REFER TO ES55 E3-04 GUIDE FOR CIVIL EXCAVATION NEAR DISTRIBUTION POLES FOR DETAILS. REFER TO BC HYDRO WORK ON WOOD POLES MANUAL (ON SAFEHUB) AND BC HYDRO 2017-1-F POLE HOLDING REQUIREMENTS FOR APPROVED TEMPORARY POLE SUPPORT METHODS. FOR MORE INFORMATION CONTACT workmethods@bchydro.com

No.	DATE	BY	CHK'D	REVISION
-	2022-09-08	DSM	DSM	ISSUED FOR IDR
A	2022-11-11	DSM	DSM	INDICATIVE DESIGN SUBMISSION

McElhanney Ltd  
Suite 2300 Central City Tower 13450 - 102 Avenue Surrey, BC V3T 5X3 Tel: (604)596-0391

**STREET LIGHTING PORTSIDE ROAD TO BLUNDELL ROAD RICHMOND, BC**

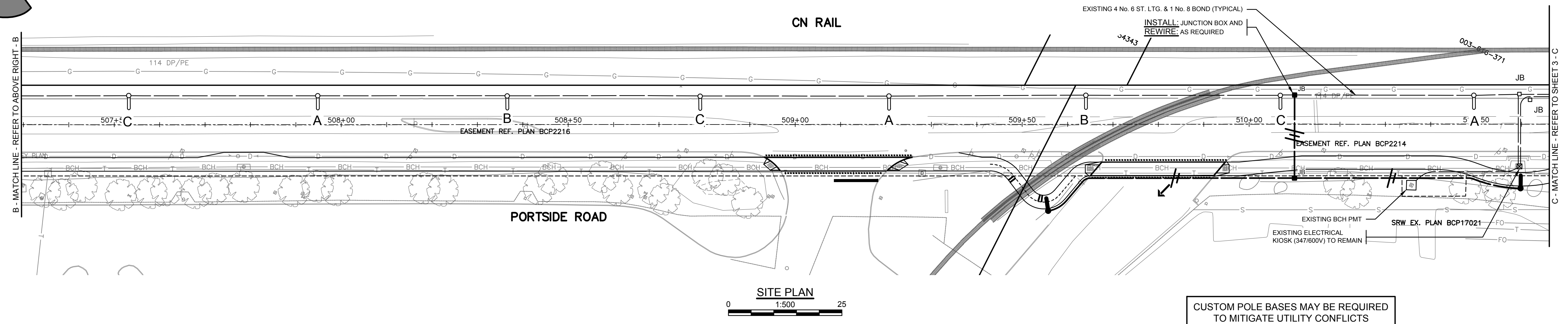
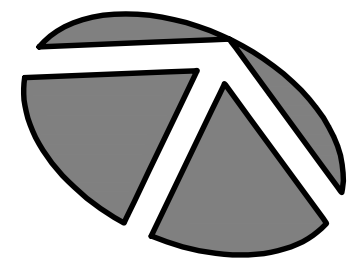
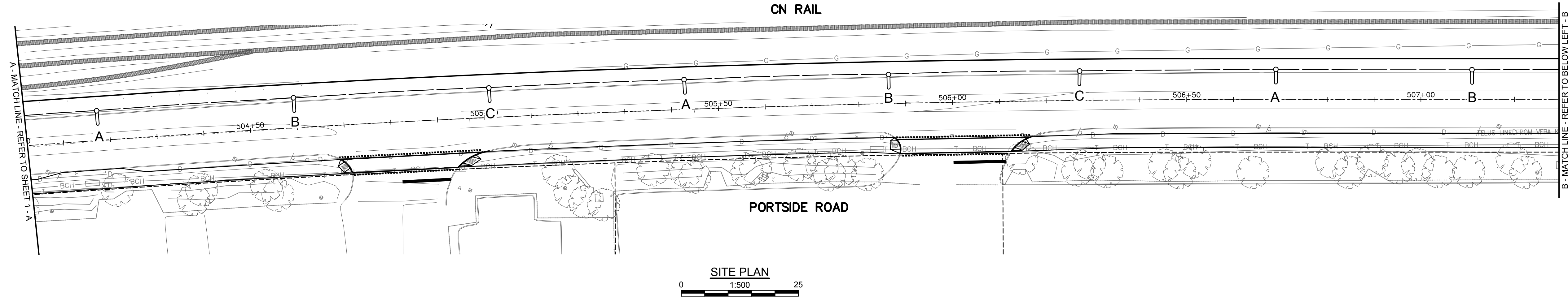
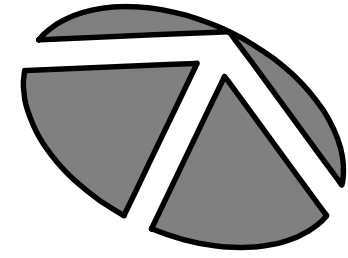
PROJECT No. 7476b-22-01 of 05 DWG No. 356-135-EL-101 REVISION A

**DMD**  
DMD & Associates Ltd.  
Electrical Consultants Ltd.  
#12-17358 104A Avenue  
Surrey, BC, Canada V4N 5M3  
www.dmdeng.com office@dmdeng.com 604-589-9010 604-589-9012

DESIGNED	DON MCLEAN
DRAWN	CRYSTA ANDREWS
CHECKED	DON MCLEAN
E.O.R.	DON MCLEAN
DATE	SEPTEMBER 07, 2022

SCALE: 1:500

SEAL



EXISTING SERVICE KIOSK  
N.T.S.

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**347/600V**

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**OVERHEAD POWER LINE CONFLICTS**  
CONTRACTOR SHALL CONFIRM ON SITE PRIOR TO CONSTRUCTION THAT POLES & EQUIPMENT WILL MEET WorkSafeBC CLEARANCE REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING POLES AND INSTALLING CONCRETE BASES.

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**LOCATING EQUIPMENT**  
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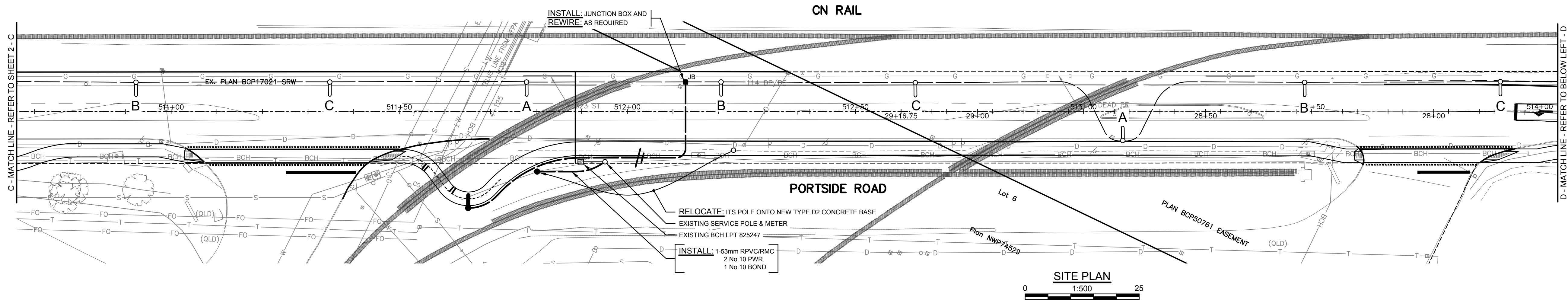
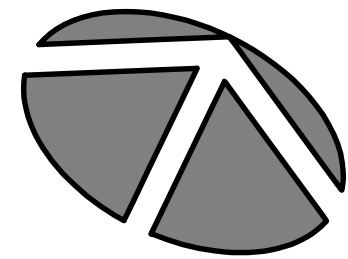
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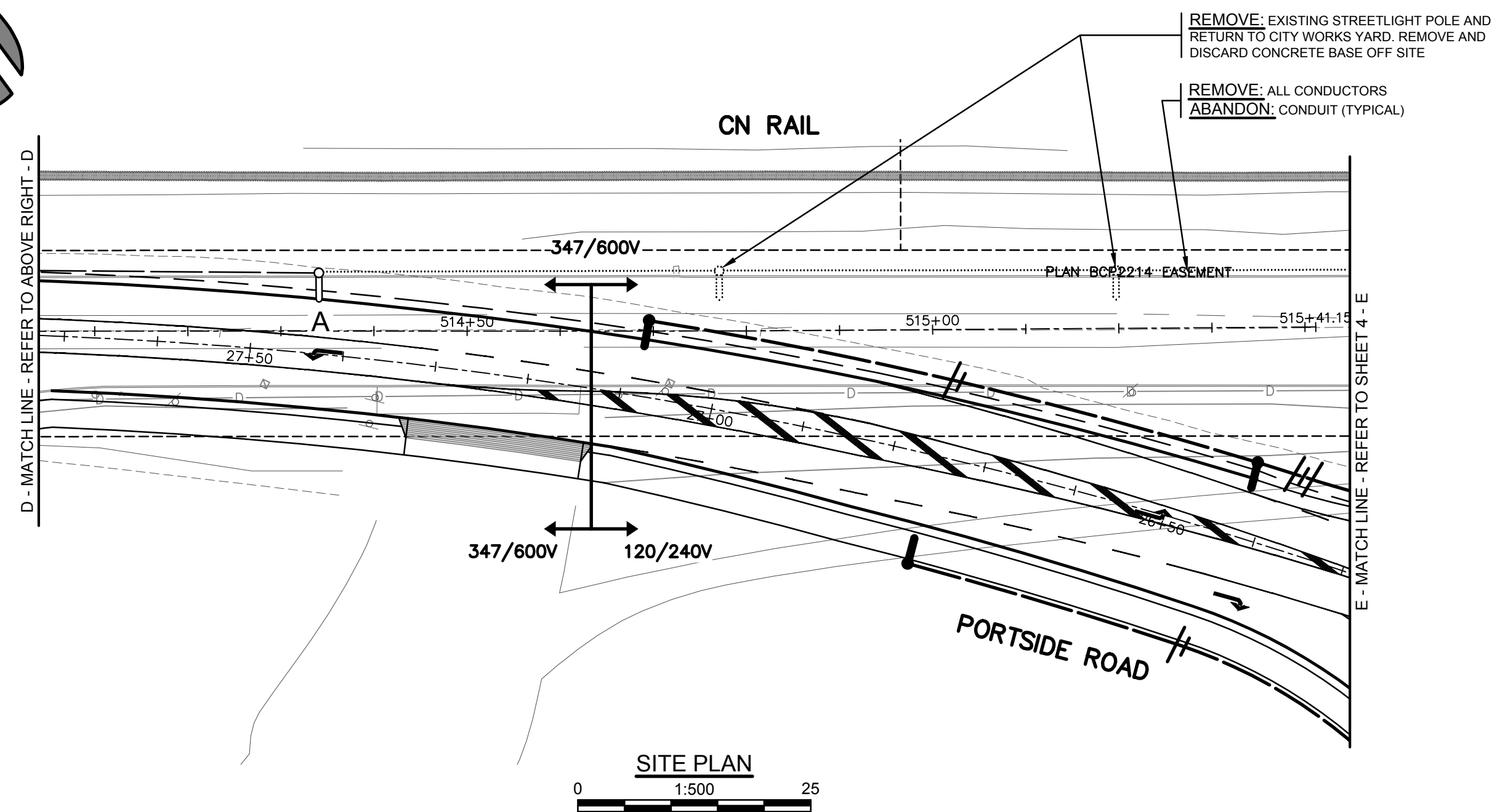
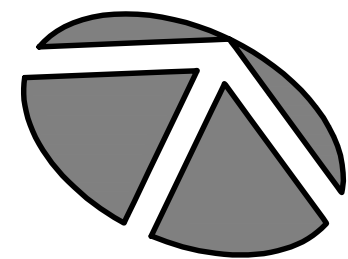
McElhanney Ltd  
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**STREET LIGHTING  
PORTSIDE ROAD  
TO BLUNDELL ROAD  
RICHMOND, BC**

PROJECT No.	7476b-22-02 of 05	DWG No.	356-135-EL-102	REVISION	A
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CUSTOM POLE BASES MAY BE REQUIRED TO MITIGATE UTILITY CONFLICTS



PORTSIDE ITS POLE AND SERVICE  
N.T.S.

EXISTING BCH TRANSFORMER

**DMD**  
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E.O.R.	DON MCLEAN
DATE	SEPTEMBER 07, 2022
SCALE:	AS NOTED

PERMIT TO PRACTICE  
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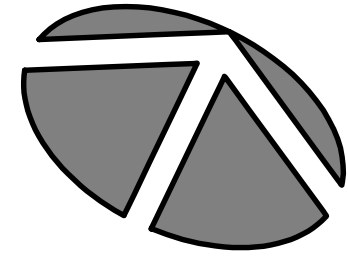
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**STREET LIGHTING**  
**PORTSIDE ROAD**  
**TO BLUNDELL ROAD**  
 RICHMOND, BC

PROJECT No.	DWG No.	REVISION
7476b-22-03 of 05	356-135-EL-103	A



CUSTOM POLE BASES MAY BE REQUIRED TO MITIGATE UTILITY CONFLICTS

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REFER TO CITY OF RICHMOND DRAWING No. TC-XXXX-09 & TC-XXXX-10 FOR PROPOSED TRAFFIC SIGNAL DETAILS AT BLUNDELL ROAD AND PORTSIDE ROAD OVERPASS

REFER TO CITY OF RICHMOND DRAWING No. XXXXX-XX-XX FOR PROPOSED TRAFFIC SIGNAL DETAILS AT BLUNDELL ROAD AND No. 8 ROAD

REFER TO CITY OF RICHMOND DRAWING No. XXXXX-XX-XX FOR PROPOSED STREET LIGHTING DETAILS ON BLUNDELL ROAD

REMOVE: ALL CONDUCTORS ABANDON; CONDUIT (TYPICAL)

REMOVE: EXISTING STREETLIGHT POLE C/W LED LUMINAIRE AND RETURN TO CITY WORKS YARD. REMOVE AND DISCARD CONCRETE BASE OFF SITE (TYPICAL)

PLAN BCP42099 SRW

REMOVE & REPLACE: EXISTING LUMINAIRE (TYPICAL FOR 5)

POLE ON CAST-IN-PLACE BARRIER

ABUTMENT

STUB OUT & CAP 1-53mm SPARE ON ROAD SHOULDER BEYOND APPROACH SLABS (TYPICAL)

120/240V

PERMIT TO PRACTICE NUMBER: 1000771  
ENGINEERS AND GEOSCIENTISTS BRITISH COLUMBIA

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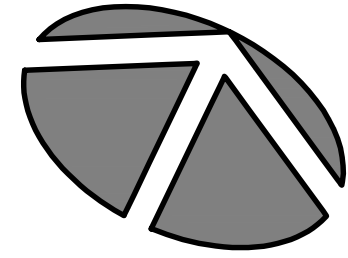
**STREET LIGHTING**  
PORTSIDE ROAD  
TO BLUNDELL ROAD  
RICHMOND, BC

PROJECT No.	DWG No.	REVISION
7476b-22-04 of 05	356-135-EL-104	A

**DMD & Associates**  
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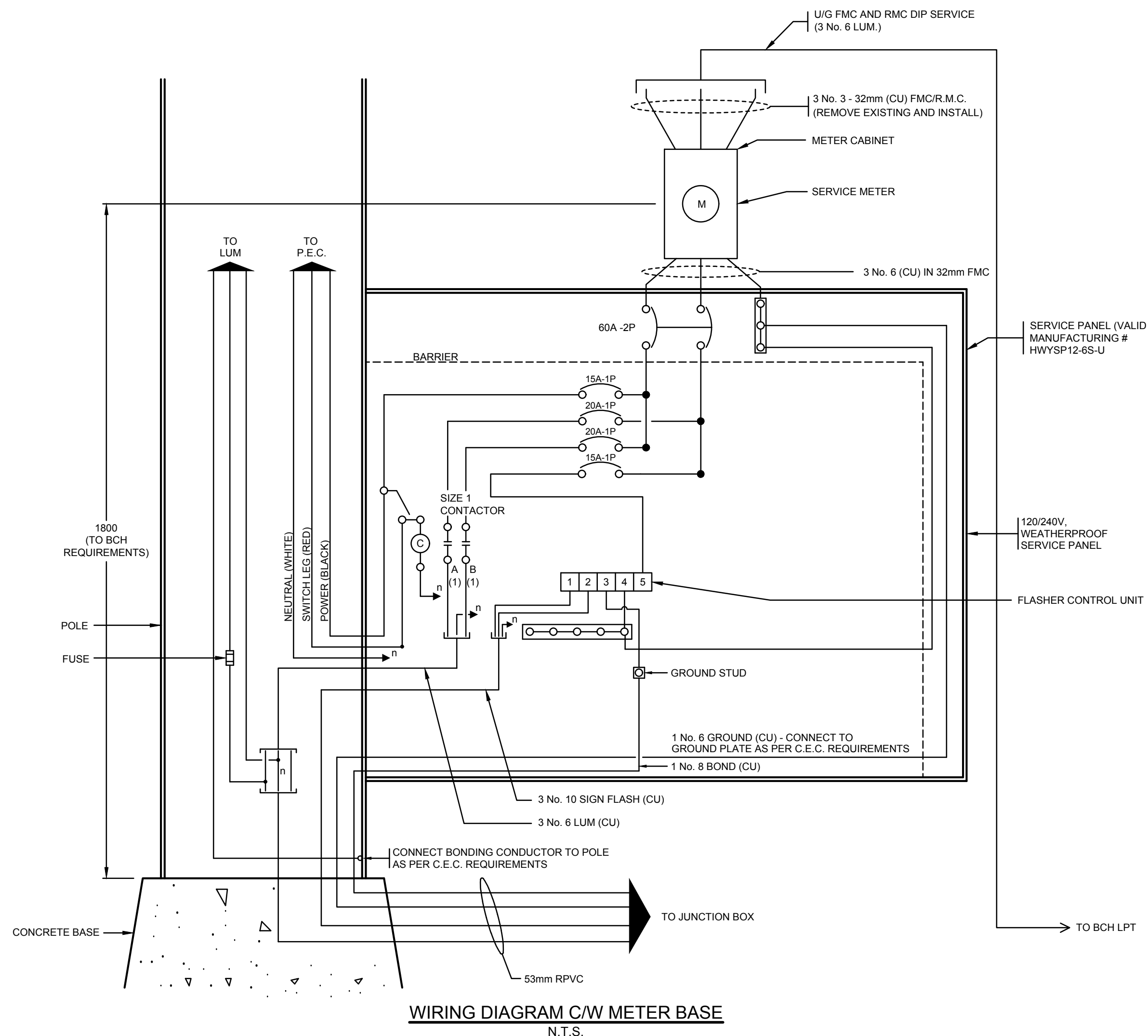


G - MATCH LINE - REFER TO SHEET 4 - G

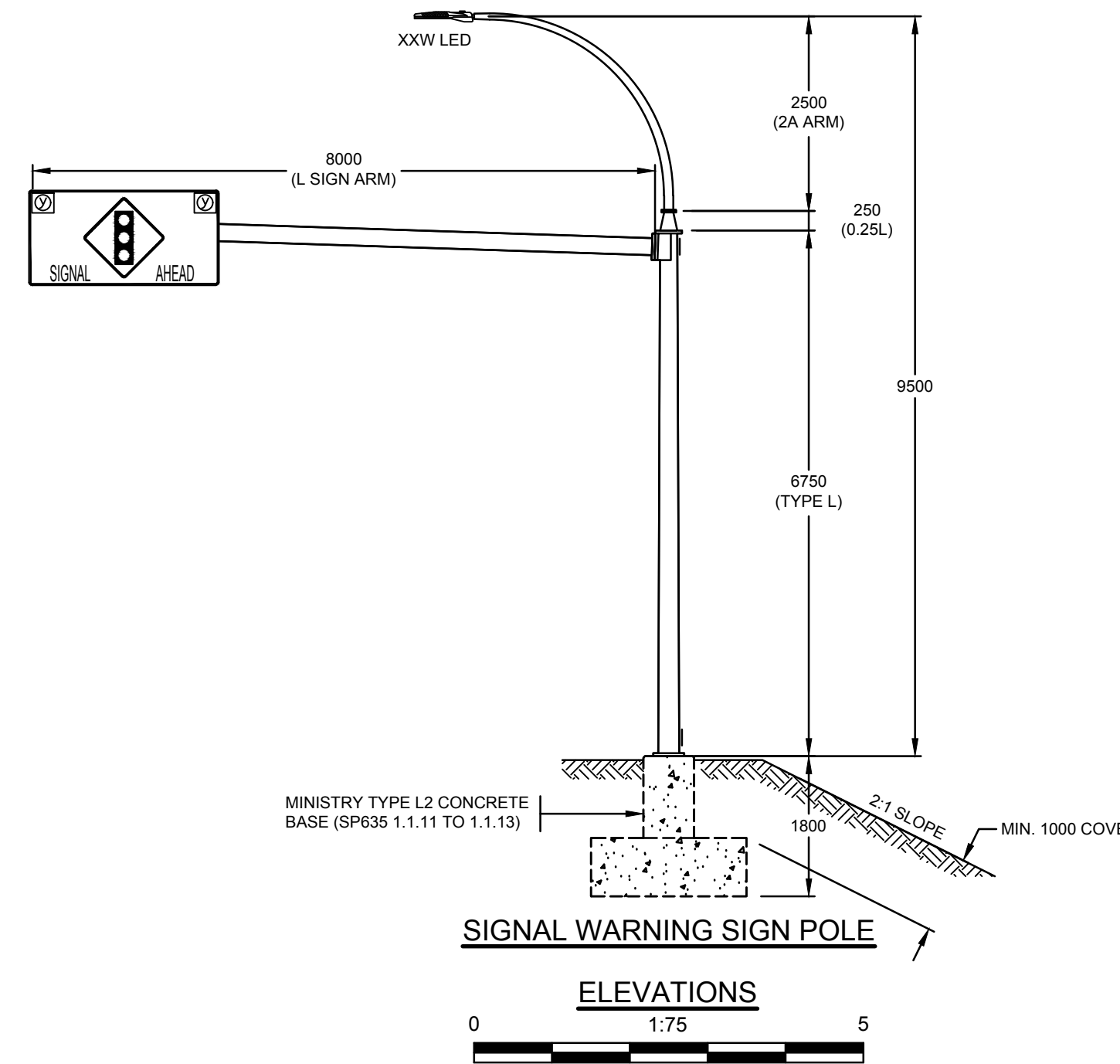
H - MATCH LINE - REFER TO SHEET 4 - H

CUSTOM POLE BASES MAY BE REQUIRED TO MITIGATE UTILITY CONFLICTS

PORTSIDE ROAD EXTENSION



WIRING DIAGRAM C/W METER BASE  
N.T.S.



ELEVATIONS  
1:75

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REFER TO CITY OF RICHMOND DRAWING No. XXXXX-XX-XX FOR PROPOSED TRAFFIC SIGNAL DETAILS AT BLUNDELL ROAD AND No. 8 ROAD

REFER TO CITY OF RICHMOND DRAWING No. XXXXX-XX-XX FOR PROPOSED STREET LIGHTING DETAILS ON BLUNDELL ROAD

**347/600V**

**120/240V**

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<b>STREET LIGHTING PORTSIDE ROAD TO BLUNDELL ROAD RICHMOND, BC</b>		
PROJECT No.	DWG No.	REVISION
7476b-22-05 of 05	356-135-EL-105	A