PBX ENGINEERING LTD.
PERMIT TO PRACTICE NUMBER:
1000208

CITY OF NEW WESTMINSTER
ACTIVE TRANSPORTATION NETWORK PLAN
YEAR 2
STREET LIGHTING UPGRADES

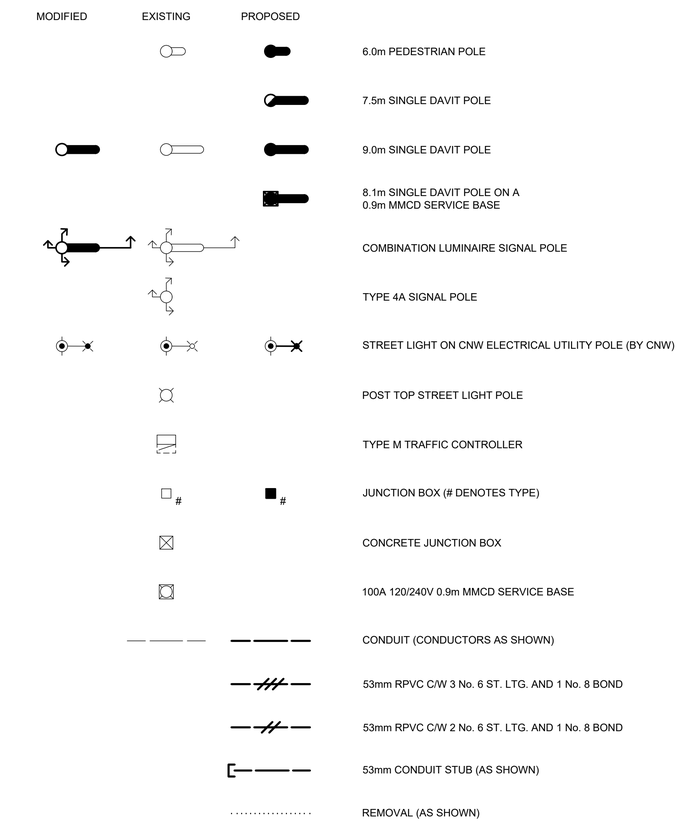
GENERAL NOTES:

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW WESTMINSTER APPROVED MMCD VERSION, FOLLOWED BY NEW WESTMINSTER SUPPLEMENTARY MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.
2. THE CONTRACTOR SHALL NOT PRE-DRILL HOLES IN A SIGNAL POLE UNTIL AFTER THE BASE FOR THAT POLE HAS BEEN INSTALLED. THE CONTRACTOR SHALL ADVISE THE CONTRACT ADMINISTRATOR OF ANY ADJUSTMENTS MADE TO THE BASE LOCATION WHICH WILL EFFECT THE LOCATIONS OF HARDWARE TO BE MOUNTED ON THAT POLE PRIOR TO DRILLING.
3. THE CONTRACTOR SHALL REPLACE ALL ASPHALT REMOVED DURING CONSTRUCTION.
4. ALL CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOUR CODED.
5. ALL STREET LIGHT POLES, SIGNAL POLES, SERVICE BASES AND JUNCTION BOX LIDS SHALL BE GALVANIZED.
6. ALL STREET LIGHT POLES AND SIGNAL POLES SHALL BE POWDER COATED BLACK, RAL 9005.
7. ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND BULLETINS PUBLISHED BY TECHNICAL SAFETY BC.
8. ALL WORK SHALL CONFORM TO ALL APPLICABLE REGULATIONS OF WORKSAFE BC.
9. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS, EQUIPMENT AND LABOUR TO COMPLETE THE WORKS, EXCEPT AS NOTED.
10. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT MoTI TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES FOR PERMITS AND INSPECTIONS, AS REQUIRED BY THE BC SAFETY AUTHORITY.
12. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
13. ALL SYMBOLS ARE NOT TO SCALE.
14. ENSURE CLEARANCES FROM OVERHEAD UTILITY LINES MEET UTILITY AND WORKSAFE BC REGULATIONS PRIOR TO CONCRETE BASE INSTALLATION. CONTACT PBX ENGINEERING IN THE EVENT OF CONFLICT.
15. WHERE POSSIBLE, POLES SHALL BE POSITIONED WITH THE HANDHOLE IN THE BACK OR IF NOT POSSIBLE, ON THE DOWNSTREAM TRAFFIC SIDE.
16. LUMINAIRES WITHOUT PHOTOCELL SHALL HAVE A SHORTING CAP.
17. ALL REDUNDANT HOLES IN POLES SHALL BE TREATED WITH GALVACON PAINT AND PLUGGED USING SUITABLE GALVANIZED AND BLACK POWDER COATED PLUG OR COVER PLATE.
18. ALL CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY ON THE DRAWINGS. THE CONTRACTOR MAY OPTIMIZE THE ROUTING BASED ON FIELD CONDITIONS TO MINIMIZE TRENCHING AND AVOID CONFLICTS.
19. CONTRACTORS TO CONFIRM JUNCTION BOX LIDS ARE ELECTRICALLY BONDED.
20. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PRIOR TO ORDERING EQUIPMENT.
21. ALL SIGNAL CABLE SHALL MEET CURRENT C.S.A. STANDARDS C22.2 - No.239-97. CONTROL CABLE SIGNALS SHALL ALL BE WIRED WITH SIGNAL CABLE (STRANDED CONDUCTORS FOR ALL UNDERGROUND CABLE AND RISERS IN POLES).
22. ALL TRAFFIC SIGNAL CONDUCTORS TO BE CONNECTED IN THE POLE HANDHOLE, SPLICING OF TRAFFIC SIGNAL CONDUCTORS IN JUNCTION BOXES IS NOT PERMITTED.
23. CONDUITS, BASES, & JUNCTION BOXES SHALL BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR WHO IS REQUIRED TO OBTAIN A PERMIT FROM THE ELECTRICAL SAFETY BRANCH INSPECTOR.
24. WIRING AND SPLICING OF STREET LIGHTING CONDUCTORS TO BE PER NEW WESTMINSTER DWG SSD-R.E.13. AN 'ELASTIMOLD 65.U' FUSED CONNECTOR KIT, C/W A 10A BUSS BAN FUSE SHALL BE INSTALLED IN EACH LUMINAIRE LIVE CONDUCTOR IN THE HANDHOLE.
25. EXACT POSITION OF ALL EQUIPMENT SHALL BE CONFIRMED WITH CITY DESIGNATED ELECTRICAL ENGINEER & CIVIL ENGINEER IN THE FIELD BEFORE INSTALLATION.
26. ALL CONDUITS UNDER ROADWAY SHALL BE BURIED MIN. 900mm DEEP, ALL OTHER CONDUITS SHALL BE BURIED MIN. 600mm DEEP & EMBEDDED IN SAND 150mm ABOVE & BELOW A 'BURIED CABLE' MARKER. TAPE SHALL BE INSTALLED IN ALL TRENCHES (300mm ABOVE INSTALLED CONDUIT).
27. EMPTY CONDUITS SHALL HAVE A NYLON PULL STRING INSTALLED AND ENDS CAPPED.
28. COMMON CIRCUIT WIRING SHALL BE TAPPED TOGETHER & TAGGED AS NOTED. TRAFFIC SIGNAL COMMON TO BE KEPT SEPARATE FROM STREET LIGHTING COMMON CONDUCTOR.
29. 1.0m OF CABLE OR CONDUCTOR SLACKS IS TO BE COILED IN EACH JUNCTION BOX PER DWG SSD-R.E7.
30. RESTORATION OF EXISTING DRIVEWAYS, CURBS, STAIRS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS AND TO BE INCIDENTAL TO THE UNIT PRICES IN THE CONTRACT FOR MAINLINE AND SERVICE CONNECTIONS.
31. EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION. IN THE EVENT OF LANDSCAPING REMOVAL THE PROPERTY OWNER SHALL BE ADVISED OF THE REMOVAL AND THE LANDSCAPING PLACED IN OWNERS PROPERTY UPON THEIR REQUEST.
32. THE CONTRACTOR SHALL PROCURE ALL EQUIPMENT/MATERIAL REQUIRED TO COMPLETE THE CONSTRUCTION OF THIS SCOPE. CONTRACTOR SHALL COORDINATE DELIVERY OF LUMINAIRE ARM AND LED LUMINAIRES THAT ARE BEING INSTALLED ON THE CITY OF NEW WESTMINSTER ELECTRICAL UTILITY POLES.

DRAWING INDEX

DWG. No.	REV	DESCRIPTION
COV-00	P2	COVER SHEET
EL-01	P2	STREET LIGHTING - LEGEND, NOTES, & KEY PLAN
EL-02	P2	SITE PLAN - 10TH STREET
EL-03	P2	SITE PLAN - 10TH STREET & 9TH STREET
EL-04	P2	SITE PLAN - 9TH STREET
EL-05	P2	SITE PLAN - 9TH STREET & 8TH STREET
EL-06	P2	SITE PLAN - 8TH STREET
EL-07	P1	SITE PLAN - LONDON STREET
EL-08	P1	SITE PLAN - LONDON STREET
EL-09	P1	SITE PLAN - LONDON STREET
EL-10	P1	SITE PLAN - LONDON STREET
EL-11	P2	ELEVATIONS - STREET LIGHTING

LEGEND



ISSUED FOR TENDER
NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P2	26APR10	ISSUED FOR TENDER	JG	YR	AH
P1	25AUG15	ISSUED FOR 70% DESIGN	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA — A. K. HUNTER — # 45508 — ENGINEER

DATE: 2026-04-10

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
STREET LIGHTING - LEGEND, NOTES, & KEY PLAN

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
	241248	EL-01	P2

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PERMIT TO PRACTICE NUMBER:
1000208

TRUE

EXIST. RPVC CONDUIT
EXIST. CONDUCTORS
PULL:
ST. LTG. CCTS. TO JUNCTION BOX
ADD:
3 No. 6 RW90
1 No. 8 RW90 BOND
(EXIST. CONDUIT ASSUMED LOCATION)

LOCATE & OVERBUILD:
EXIST. STREET LIGHTING CONDUIT WITH NEW JUNCTION BOX
PULL:
EXIST. STREET LIGHTING CONDUCTORS FROM THE POLE TO THE NORTH TO THE NEW JUNCTION BOX

1730

SEE ELEVATION A/11

INSTALL:
9.0m DAVIT POLE C/W TYPE C CONCRETE BASE AND LED LUMINAIRE

R 28W LED

800

EXIST. 150W HPS

28W LED

52W LED

10TH AVE.

LONDON ST.

10TH ST.

DUBLIN ST.

EDINBURGH ST.

FOR CONTINUATION SEE BOTTOM LEFT

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
REMOVE EXIST. LUMINAIRE AND ARM AND INSTALL NEW 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE LED LUMINAIRE
BY CNW:
RETROFIT EXIST. LUMINAIRE WITH NEW LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
REMOVE EXIST. LUMINAIRE AND ARM AND INSTALL NEW 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
REMOVE EXIST. LUMINAIRE AND ARM AND INSTALL NEW 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 2.4m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 2.4m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
REMOVE EXIST. LUMINAIRE AND ARM AND INSTALL NEW 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
REMOVE EXIST. LUMINAIRE AND ARM AND INSTALL NEW 4.8m DAVIT ARM AND LED LUMINAIRE

SITE PLAN

0 1:500 25m

REFER TO DRAWING EL-17 FOR TRAFFIC SIGNAL DETAIL

INSTALL:
1-53mm RPVC CONDUIT (EMPTY), AND STUB FOR FUTURE

SEE ELEVATION B/11

INSTALL:
5.0m PEDESTRIAN POLE C/W TYPE B CONCRETE BASE, AND LED LUMINAIRE (TYP. OF 7)

B 28W LED

R 28W LED

28W LED

52W LED

8TH AVE.

10TH ST.

HAMILTON ST.

FOR CONTINUATION SEE TOP RIGHT

FOR CONTINUATION SEE DWG. EL-03

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
REMOVE EXIST. LUMINAIRE AND ARM AND INSTALL NEW 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE LED LUMINAIRE
BY CNW:
RETROFIT EXIST. LUMINAIRE WITH NEW LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 4.8m DAVIT ARM AND LED LUMINAIRE

SITE PLAN

0 1:500 25m

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P2	26APR10	ISSUED FOR TENDER	JG	YR	AH
P1	25AUG15	ISSUED FOR 70% DESIGN	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45508, 2026-04-10

DATE:

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
SITE PLAN - 10TH STREET

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-02	P2

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1000208

REFER TO DRAWING EL-15 FOR RECTANGULAR RAPID FLASHING BEACON (RRFB) DETAIL

TRUE

EXISTING PEDESTRIAN LIGHTING NOT SHOWN FOR CLARITY

FOR CONTINUATION SEE DWG. EL-04

9TH ST.

6TH AVE.

10TH ST.

7TH AVE.

NANAIMO ST.

B 50W LED

R 50W LED

28W LED

52W LED

PEC R 52W LED

EXIST. SERVICE KIOSK
SPLICE:
PROPOSED ST. LTG. CONDUCTORS TO THE EXIST. ST. LTG.

REMOVE:
EXIST. POLE AND BASE
SPLICE:
EXIST. CONDUIT
RE-WIRE:
AS REQUIRED
(NO RECORD OF EXIST. LIGHTING, CONTRACTOR SHALL INVESTIGATE)

1730

INSTALL:
1-53mm RPVC
3 No. 6 ST. LTG.
1 No. 8 BOND

FOR CONTINUATION SEE DWG. EL-02

REMOVE & OVERBUILD:
EXIST. POLE AND CONCRETE BASE WITH A NEW JUNCTION BOX
(CONTRACTOR SHALL INSPECT THE LOCATION TO CONFIRM IF THIS POLE IS THE END OF THE CIRCUIT. IF SO, DON'T INSTALL JUNCTION BOX, REMOVE POLE, BASE, CONDUCTORS, AND ABANDON CONDUIT)

INSTALL:
5.0m PEDESTRIAN POLE C/W TYPE B CONCRETE BASE AND POST TOP LED LUMINAIRE (TYP. OF 7)

SEE ELEVATION C 11

RETROFIT:
EXIST. HPS LUMINAIRE WITH NEW LED LUMINAIRE C/W POST TOP ADAPTOR

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
REMOVE EXIST. LUMINAIRE AND ARM AND INSTALL NEW 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
REMOVE EXIST. LUMINAIRE AND ARM AND INSTALL NEW 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 4.8m DAVIT ARM AND LED LUMINAIRE

RETROFIT:
EXIST. HPS LUMINAIRE WITH NEW LED LUMINAIRE

RETROFIT:
EXIST. HPS LUMINAIRE WITH NEW LED LUMINAIRE

SITE PLAN
0 1:500 25m

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PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

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DATE: 2026-04-10

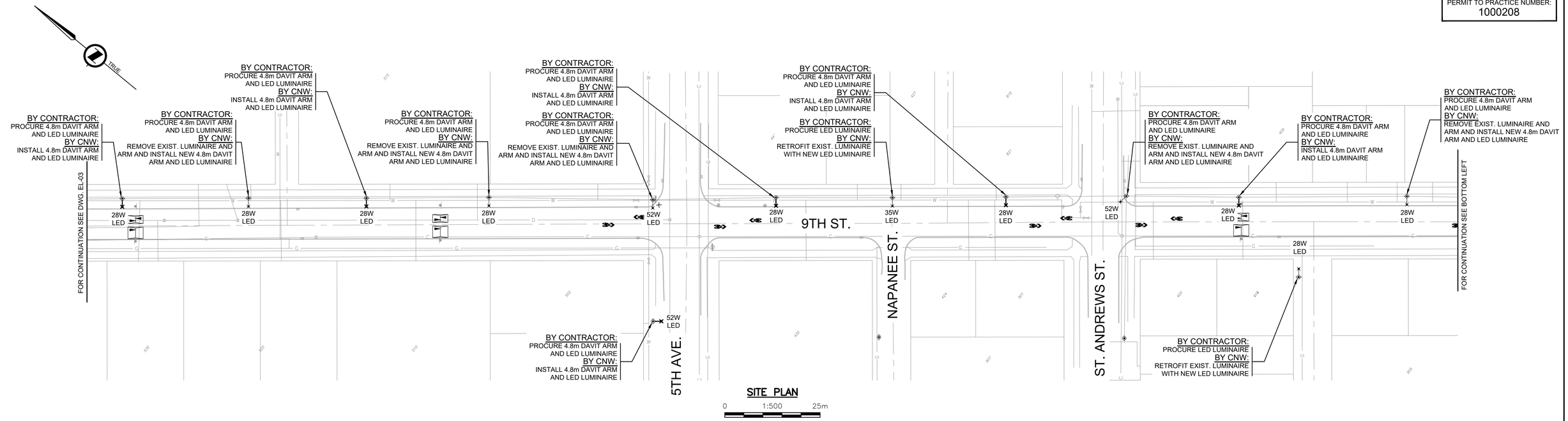
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Tel 604.408.7222
www.pbxeng.com

TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
SITE PLAN - 10TH STREET & 9TH STREET

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-03	P2

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SITE PLAN

0 1:500 25m

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P2	26APR10	ISSUED FOR TENDER	JG	YR	AH
P1	25AUG15	ISSUED FOR 70% DESIGN	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45508, ENGINEER

DATE: 2026-04-10

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TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
SITE PLAN - 9TH STREET

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-04	P2

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TRUE

8TH ST.

MILTON ST.

QUEENS AVE.

ONTARIO ST.

9TH ST.

ROYAL AVE.

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
REMOVE EXIST. LUMINAIRE AND ARM AND INSTALL NEW 4.8m DAVIT ARM AND LED LUMINAIRE

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 4.8m DAVIT ARM AND LED LUMINAIRE

28W LED

52W LED

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
REMOVE EXIST. LUMINAIRE AND ARM AND INSTALL NEW 4.8m DAVIT ARM AND LED LUMINAIRE

28W LED

52W LED

BY CONTRACTOR:
PROCURE 4.8m DAVIT ARM AND LED LUMINAIRE
BY CNW:
INSTALL 4.8m DAVIT ARM AND LED LUMINAIRE

RETROFIT:
EXIST. HPS LUMINAIRE WITH NEW LED LUMINAIRE

52W LED

FOR CONTINUATION SEE DWG. EL-04

REFER TO DRAWING EL-19 FOR TRAFFIC SIGNAL DETAIL

RETROFIT:
EXIST. HPS LUMINAIRE WITH NEW LED LUMINAIRE

EXIST. 23W LED

EXIST. 23W LED

92W LED

92W LED

92W LED

92W LED

92W LED

92W LED

28W LED

80W LED

80W LED

FOR CONTINUATION SEE DWG. EL-06

SITE PLAN

0 1:500 25m

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PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

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DATE: 2026-04-10

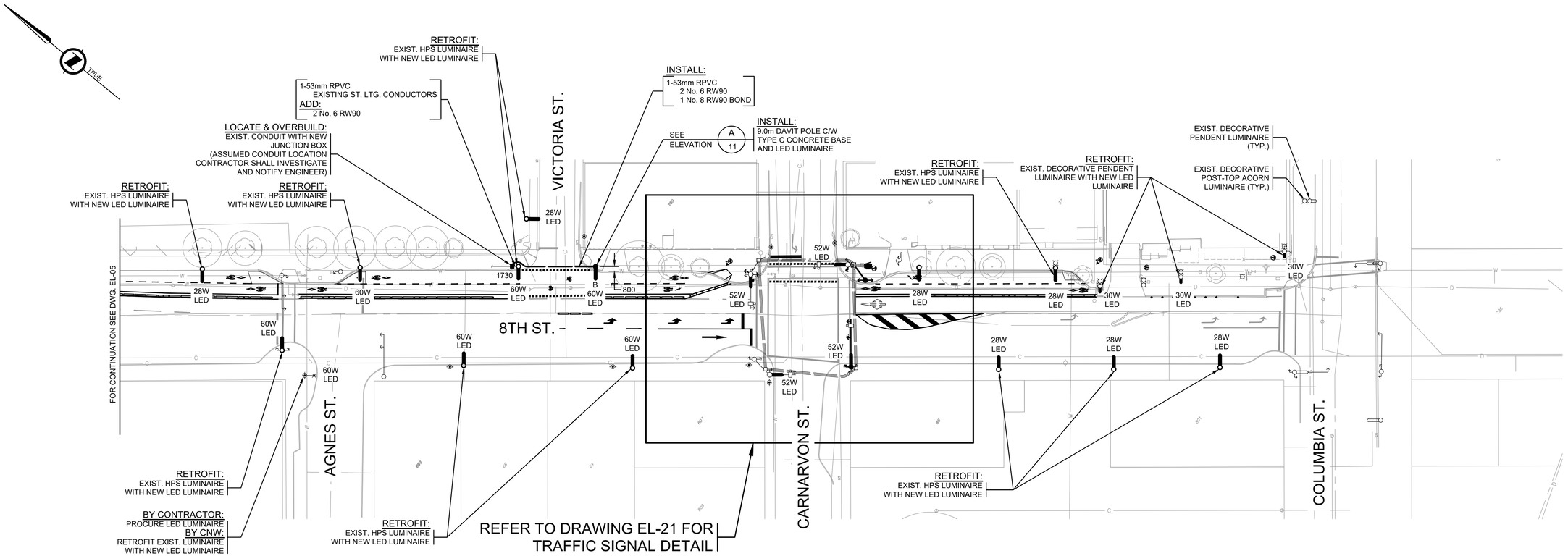
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Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
SITE PLAN - 9TH STREET & 8TH STREET

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-05	P2

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SITE PLAN

0 1:500 25m

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CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA A. K. HUNTER # 45026 ENGINEER

DATE: 2026-04-10

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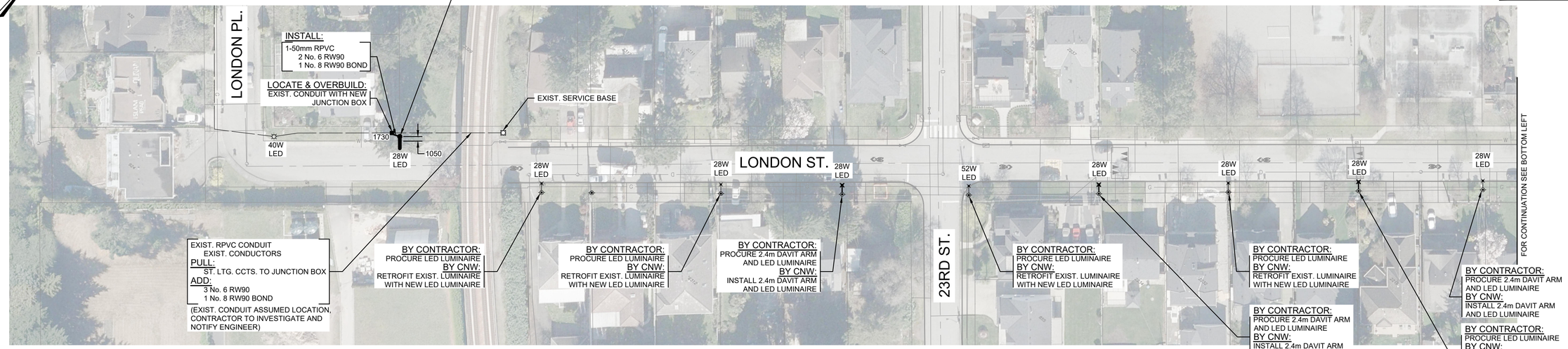
TITLE: SITE PLAN - 8TH STREET

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-06	P2

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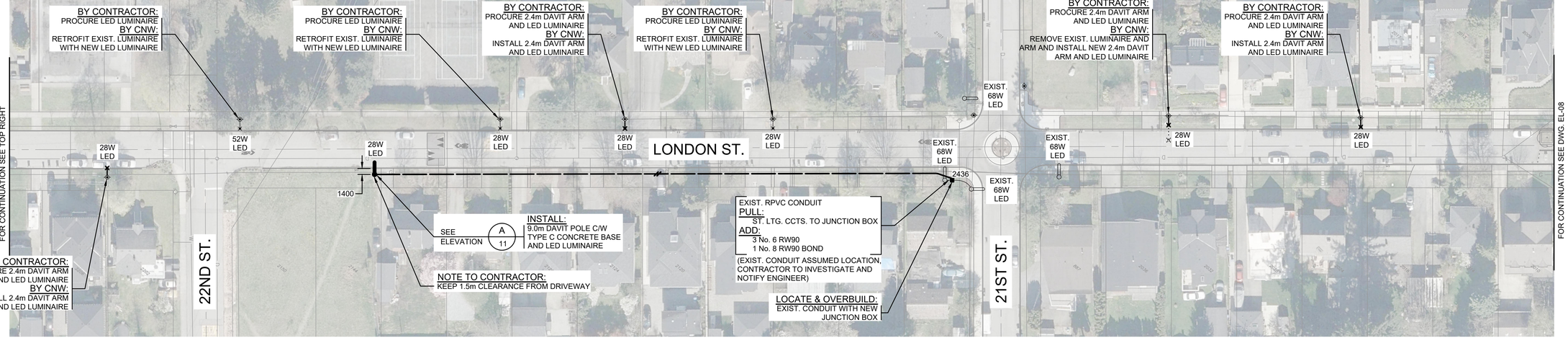
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PERMIT TO PRACTICE NUMBER:
1000208

TRUE



SITE PLAN

0 1:500 25m



SITE PLAN

0 1:500 25m

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Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P1	26APR10	ISSUED FOR TENDER	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

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DATE: 2026-04-10

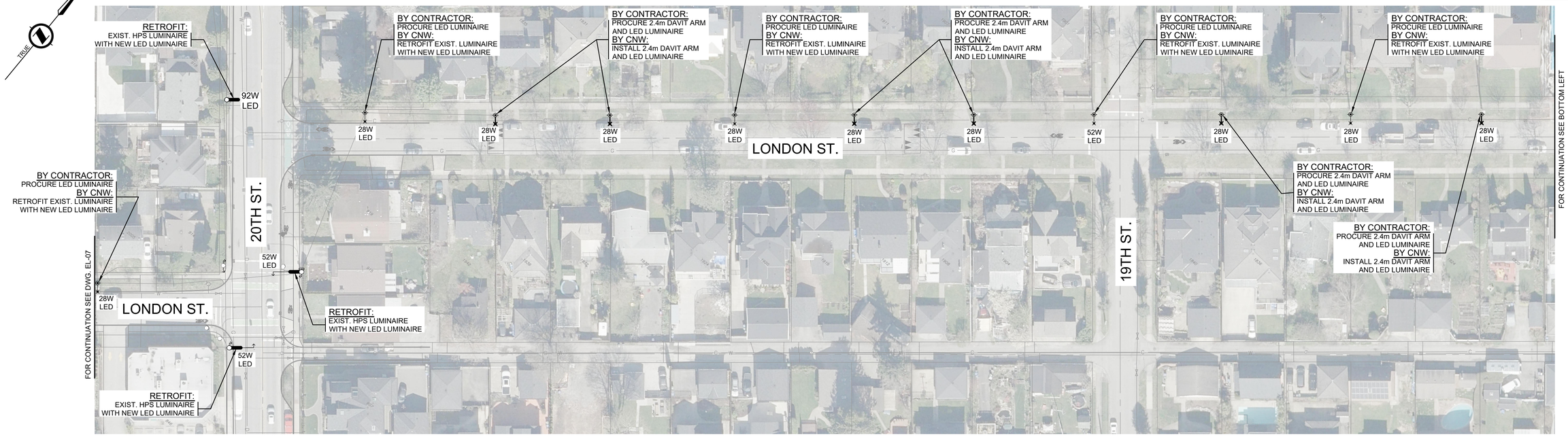
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Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
SITE PLAN - LONDON STREET

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-07	P1

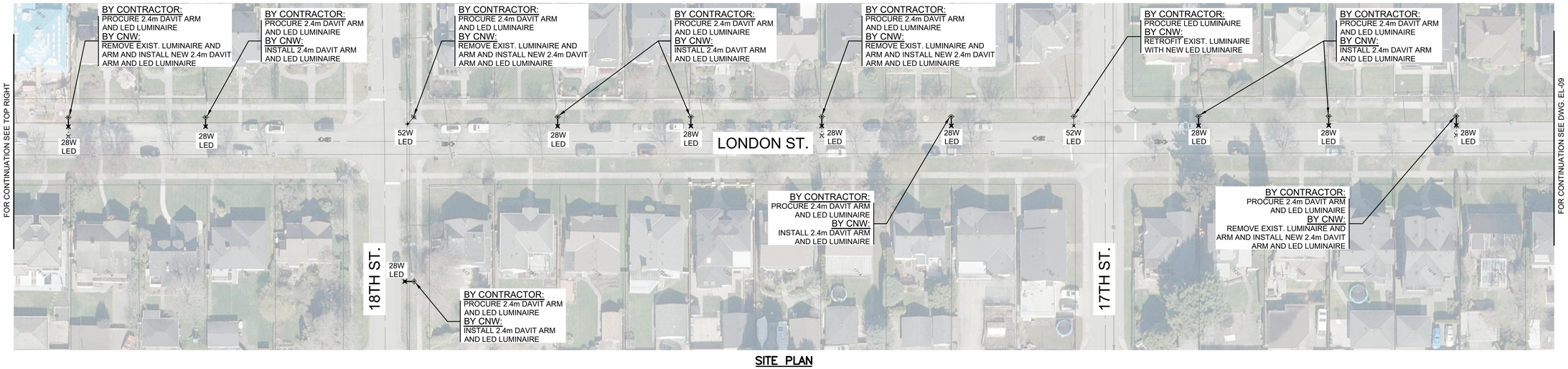
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1000208



SITE PLAN

0 1:500 25m



SITE PLAN

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ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P1	26APR10	ISSUED FOR TENDER	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45508

DATE: 2026-04-10

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

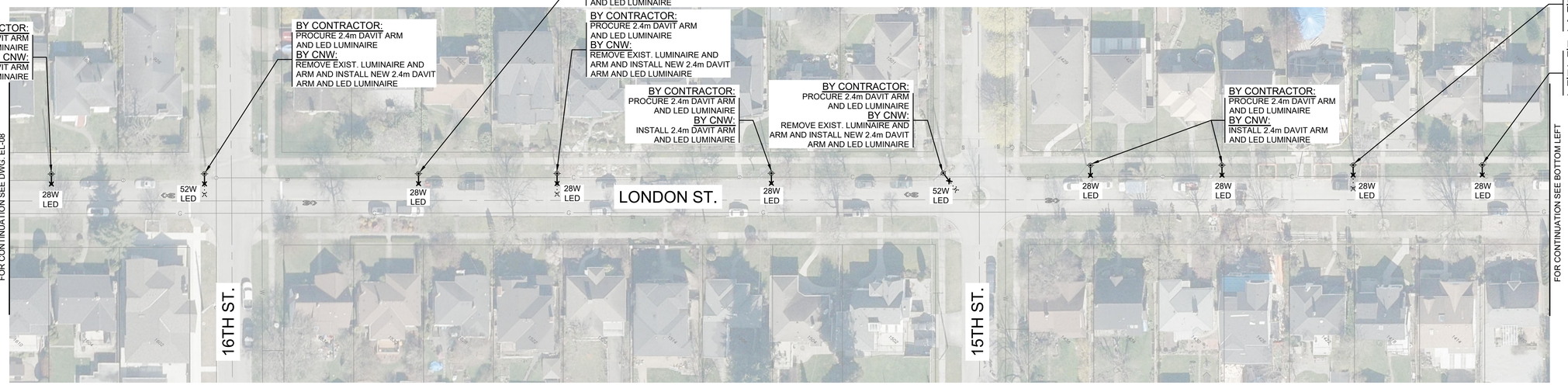
TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
SITE PLAN - LONDON STREET

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-08	P1

p:\241248_Cotw_2025_ATNP_Year 2\Drawings\ACAD\EL-08- 10/04/2026 10:00 AM JESSE.GIBSON

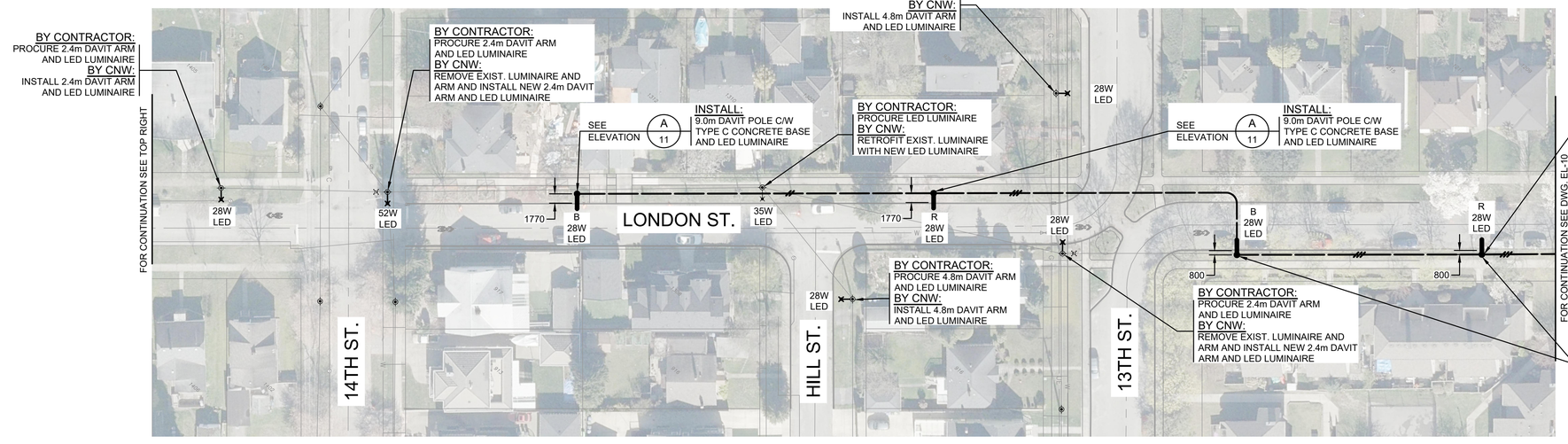
PBX ENGINEERING LTD.
PERMIT TO PRACTICE NUMBER:
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TRUE



SITE PLAN

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SITE PLAN

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Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P1	26APR10	ISSUED FOR TENDER	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45928, ENGINEER — DATE: 2026-04-10

PBX ENGINEERING Ltd.
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Vancouver BC, V6C 1B4
Tel 604.408.7222
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TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
SITE PLAN - LONDON STREET

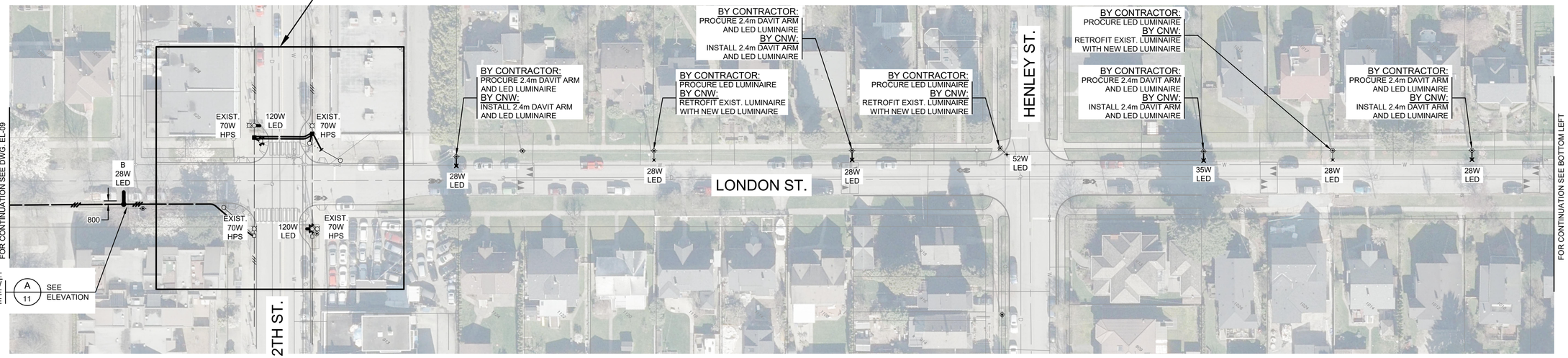
SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-09	P1

P:\241248_CoNW_2025_ATNP_Year 2\Drawings\ACAD\EL-09_10/04/2026 10:00 AM JESSE.GIBSON

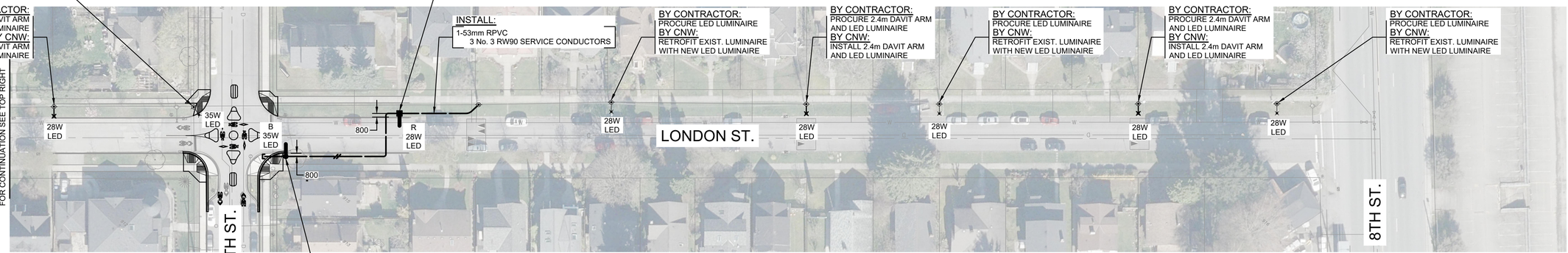
PBX ENGINEERING LTD.
PERMIT TO PRACTICE NUMBER:
1000208

TRUE

REFER TO DRAWING EL-23 FOR TRAFFIC SIGNAL DETAIL



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SITE PLAN
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Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P1	26APR10	ISSUED FOR TENDER	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA A. K. HUNTER # 45508 ACTIVE 2026-04-10

DATE:

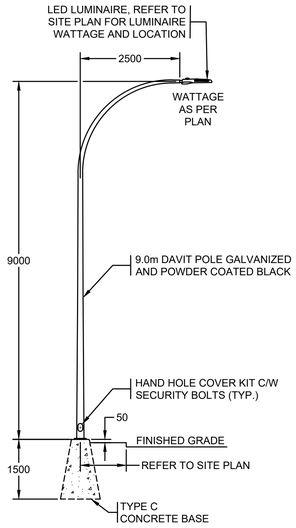
PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
SITE PLAN - LONDON STREET

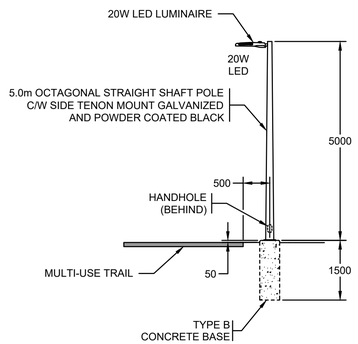
SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-10	P1

P:\241248_CoNW_2025_ATNP_Year 2\Drawings\ACAD\EL-10_10/04/2026 12:40 PM YURI.ROCHA

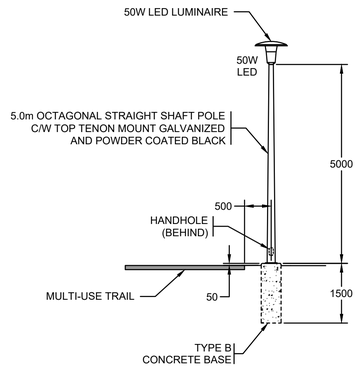
PBX ENGINEERING LTD.
PERMIT TO PRACTICE NUMBER:
1000208



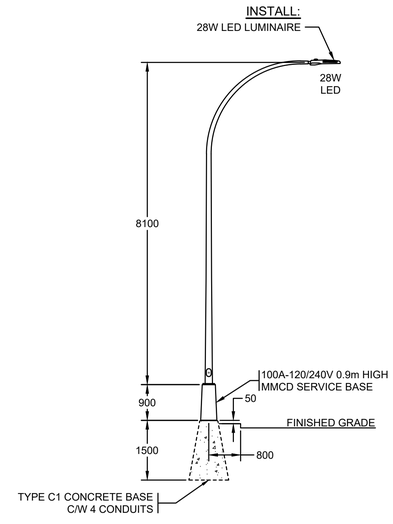
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ELEVATION 1:75 B 02 B 03 5.0m MULTI-USE PATHWAY POLE



ELEVATION 1:75 C 03 5.0m MULTI-USE PATHWAY POLE



ELEVATION 1:75 D 10 8.1m DAVIT POLE C/W 100A, 120/240V SERVICE BASE

ELEVATIONS
0 1:75 5

APPROVED PRODUCT LIST			
PRODUCT	MANUFACTURER	SPECIFICATION	EXCEPTIONS
POLES, ANCHOR BOLTS, DAVIT ARMS, & SERVICE BASE	NOVA POLE INTERNATIONAL	M.M.C.D.	GALVANIZED AND POWDERCOATED BLACK
	WEST COAST ENGINEERING		
LED FIXTURES	LED ROADWAY LIGHTING	PBDP103-50W64LED4K-MP-PC-C-LE2 NXT 12S-0-7-2LB-5-GY-3-UL-X-2H NXT 24S-0-7-3HB-3-GY-3-UL-X-2H NXT 24S-0-7-3HB-4-GY-3-UL-X-2H NXT 36S-0-7-3HB-5-GY-3-UL-X-2H	-
CONCRETE BASE	AE CONCRETE	M.M.C.D.	-
POST TOP ADAPTER	LED ROADWAY LIGHTING	FP-PTB-NXT-GREY-LF	-
CABLE LABELS	PANDUIT	MP250C	ON ALL CABLES

ALL EQUIPMENT IS PROPOSED UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P2	26APR10	ISSUED FOR TENDER	JG	YR	AH
P1	25AUG15	ISSUED FOR 70% DESIGN	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA A. K. HUNTER # 45508 ENGINEER 2026-04-10

DATE:

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

TITLE: ELEVATIONS - STREET LIGHTING

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV
AS NOTED	241248	EL-11	P2

p:\241248_CotW 2025 ATNP Year 2\Drawings\ACAD\EL-11_10/04/2026 12:42 PM YURI.ROCHA

PBX ENGINEERING LTD.
PERMIT TO PRACTICE NUMBER:
1000208

LIGHTING DESIGN CRITERIA

PER: RP-8-25, RP-43-22, & CoNW DESIGN CRITERIA SECTION 6.4

ITEM	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES
STREET NAME(S)	10TH STREET		MOODY PARK MUP		10TH STREET & LONDON STREET		10TH STREET & DUBLIN STREET		10TH STREET & EDINBURGH STREET	
LAND USE CLASSIFICATION	RESIDENTIAL		N/A		RESIDENTIAL		RESIDENTIAL		RESIDENTIAL	
ROADWAY CLASSIFICATION	LOCAL		MULTI-USE PATHWAY		LOCAL/LOCAL		LOCAL/LOCAL		LOCAL/LOCAL	
PEDESTRIAN ACTIVITY LEVEL	LOW		N/A		LOW		LOW		LOW	
LUMINAIRE DESCRIPTION, MANUFACTURER & MODEL	NXT 24S-0-7-3HB-3-GY-3-UL-X-2H		PBDP103-50W64LED4K-MP-PC-C-LE2 NXT 12S-0-7-2LB-5-GY-3-UL-X-2H		NXT 24S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H	
PHOTOMETRIC FILE NUMBER	NXT-24S-350mA-3HB-4000K.ies		NXT-12S-525mA-2LB-4000K.ies		NXT-24S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies	
LUMINAIRE WATTAGE AND LIGHT SOURCE	28W LED		17W LED		35W LED		52W LED		52W LED	
LIGHT LOSS FACTOR	0.81		0.81		0.81		0.81		0.81	
LUMINAIRE DISTRIBUTION	TYPE III		TYPE II		TYPE III		TYPE III		TYPE III	
POLE HEIGHT (m)	9.0m		5.0m		9.0m		9.0m		9.0m	
ILLUMINANCE LEVEL (Eavg)	4.5 LUX	5.8 LUX	11.5 LUX	12.2 LUX	8.0 LUX	10.1 LUX	8.0 LUX	10.0 LUX	8.0 LUX	8.7 LUX
UNIFORMITY RATIO (Eavg:Emin)	6.0:1	4.1:1	5.0:1	4.2:1	6.0:1	3.1:1	6.0:1	4.7:1	6.0:1	3.8:1

LIGHTING DESIGN CRITERIA

PER: RP-8-25 & CoNW DESIGN CRITERIA SECTION 6.4

ITEM	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES
STREET NAME(S)	10TH STREET & HAMILTON STREET		10TH STREET & 7TH AVENUE		10TH STREET & NANAIMO STREET		10TH STREET & 6TH AVENUE	
LAND USE CLASSIFICATION	RESIDENTIAL		RESIDENTIAL		RESIDENTIAL		RESIDENTIAL	
ROADWAY CLASSIFICATION	LOCAL/LOCAL		LOCAL/LOCAL		LOCAL/LOCAL		COLLECTORL/LOCAL	
PEDESTRIAN ACTIVITY LEVEL	LOW		LOW		LOW		LOW	
LUMINAIRE DESCRIPTION, MANUFACTURER & MODEL	NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 24S-0-7-3HB-3-GY-3-UL-X-2H	
PHOTOMETRIC FILE NUMBER	NXT-36S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-24S-350mA-3HB-4000K.ies	
LUMINAIRE WATTAGE AND LIGHT SOURCE	52W LED		52W LED		52W LED		28W LED	
LIGHT LOSS FACTOR	0.81		0.81		0.81		0.81	
LUMINAIRE DISTRIBUTION	TYPE III		TYPE III		TYPE III		TYPE III	
POLE HEIGHT (m)	9.0m		9.0m		9.0m		9.0m	
ILLUMINANCE LEVEL (Eavg)	8.0 LUX	9.6 LUX	8.0 LUX	9.7 LUX	8.0 LUX	11.5 LUX	10.0 LUX	10.0 LUX
UNIFORMITY RATIO (Eavg:Emin)	6.0:1	3.1:1	6.0:1	2.4:1	6.0:1	2.2:1	4.0:1	2.8:1

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NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P2	26APR10	ISSUED FOR TENDER	JG	YR	AH
P1	25AUG15	ISSUED FOR 70% DESIGN	JG	YR	AH

CLIENT
NEW WESTMINSTER

PROJECT
CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL
PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA A. K. HUNTER # 45928
2026-04-10

DATE:

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

TITLE
ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
LIGHTING DESIGN CRITERIA TABLES
10TH STREET

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-12	P2

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PBX ENGINEERING LTD.
PERMIT TO PRACTICE NUMBER:
1000208

LIGHTING DESIGN CRITERIA

PER: RP-8-25 & CoNW DESIGN CRITERIA SECTION 6.4

ITEM	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES
STREET NAME(S)	9TH STREET		9TH STREET & 5TH AVENUE		9TH STREET & NAPANEE STREET		9TH STREET & ST. ANDREWS STREET		9TH STREET & 4TH AVENUE	
LAND USE CLASSIFICATION	RESIDENTIAL		RESIDENTIAL		RESIDENTIAL		RESIDENTIAL		RESIDENTIAL	
ROADWAY CLASSIFICATION	LOCAL		LOCAL/LOCAL		LOCAL/LOCAL		LOCAL/LOCAL		LOCAL/LOCAL	
PEDESTRIAN ACTIVITY LEVEL	LOW		LOW		LOW		LOW		LOW	
LUMINAIRE DESCRIPTION, MANUFACTURER & MODEL	NXT 24S-0-7-3HB-3-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 24S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H	
PHOTOMETRIC FILE NUMBER	NXT-24S-350mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-24S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies	
LUMINAIRE WATTAGE AND LIGHT SOURCE	28W		52W LED		35W LED		52W LED		52W LED	
LIGHT LOSS FACTOR	0.81		0.81		0.81		0.81		0.81	
LUMINAIRE DISTRIBUTION	TYPE III		TYPE III		TYPE III		TYPE III		TYPE III	
POLE HEIGHT (m)	9.0m		9.0m		9.0m		9.0m		9.0m	
ILLUMINANCE LEVEL (Eavg)	4.5 LUX	5.9 LUX	8.0 LUX	8.5 LUX	8.0 LUX	8.6 LUX	8.0 LUX	10.2 LUX	8.0 LUX	8.2 LUX
UNIFORMITY RATIO (Eavg:Emin)	6.0:1	3.2:1	6.0:1	3.9:1	6.0:1	3.1:1	6.0:1	3.9:1	6.0:1	4.3:1

LIGHTING DESIGN CRITERIA

PER: RP-8-25 & CoNW DESIGN CRITERIA SECTION 6.4

ITEM	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES
STREET NAME(S)	9TH STREET & KENNEDY STREET		9TH STREET & 3RD AVENUE		9TH STREET & MILTON STREET		9TH STREET & QUEENS AVENUE	
LAND USE CLASSIFICATION	RESIDENTIAL		RESIDENTIAL		RESIDENTIAL		RESIDENTIAL	
ROADWAY CLASSIFICATION	LOCAL/LOCAL		LOCAL/LOCAL		LOCAL/LOCAL		LOCAL/LOCAL	
PEDESTRIAN ACTIVITY LEVEL	LOW		LOW		LOW		LOW	
LUMINAIRE DESCRIPTION, MANUFACTURER & MODEL	NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 24S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H	
PHOTOMETRIC FILE NUMBER	NXT-36S-450mA-3HB-4000K.ies		NXT-24S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies	
LUMINAIRE WATTAGE AND LIGHT SOURCE	52W LED		35W LED		52W LED		52W LED	
LIGHT LOSS FACTOR	0.81		0.81		0.81		0.81	
LUMINAIRE DISTRIBUTION	TYPE III		TYPE III		TYPE III		TYPE III	
POLE HEIGHT (m)	9.0m		9.0m		9.0m		9.0m	
ILLUMINANCE LEVEL (Eavg)	8.0 LUX	10.9 LUX	8.0 LUX	8.0 LUX	8.0 LUX	9.8 LUX	8.0 LUX	10.1 LUX
UNIFORMITY RATIO (Eavg:Emin)	6.0:1	4.6:1	6.0:1	3.6:1	6.0:1	3.9:1	6.0:1	2.5:1

LIGHTING DESIGN CRITERIA

PER: RP-8-25 & CoNW DESIGN CRITERIA SECTION 6.4

ITEM	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES
STREET NAME(S)	8TH STREET		8TH STREET & AGNES STREET		8TH STREET & VICTORIA STREET	
LAND USE CLASSIFICATION	RESIDENTIAL		RESIDENTIAL		RESIDENTIAL	
ROADWAY CLASSIFICATION	COLLECTOR		COLLECTOR/LOCAL		COLLECTOR/LOCAL	
PEDESTRIAN ACTIVITY LEVEL	MEDIUM		MEDIUM		MEDIUM	
LUMINAIRE DESCRIPTION, MANUFACTURER & MODEL	NXT 24S-0-7-3HB-3-GY-3-UL-X-2H NXT 36S-0-7-3HB-5-GY-3-UL-X-2H		NXT 36S-0-7-3HB-5-GY-3-UL-X-2H		NXT 36S-0-7-3HB-5-GY-3-UL-X-2H	
PHOTOMETRIC FILE NUMBER	NXT-24S-350mA-3HB-4000K.ies NXT-36S-525mA-3HB-4000K.ies		NXT-36S-525mA-3HB-4000K.ies		NXT-36S-525mA-3HB-4000K.ies	
LUMINAIRE WATTAGE AND LIGHT SOURCE	28W, 60W LED		60W LED		60W LED	
LIGHT LOSS FACTOR	0.81		0.81		0.81	
LUMINAIRE DISTRIBUTION	TYPE III		TYPE III		TYPE III	
POLE HEIGHT (m)	9.0m		9.0m		9.0m	
ILLUMINANCE LEVEL (Eavg)	9.0 LUX	9.7 LUX	16.0 LUX	16.5 LUX	16.0 LUX	16.0 LUX
UNIFORMITY RATIO (Eavg:Emin)	3.5:1	10.7:1	4.0:1	2.9:1	4.0:1	2.9:1

ISSUED FOR TENDER
NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P2	26APR10	ISSUED FOR TENDER	JG	YR	AH
P1	25AUG15	ISSUED FOR 70% DESIGN	JG	YR	AH

CLIENT
NEW WESTMINSTER

PROJECT
CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL
PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA
A. K. HUNTER
45508
ASSOCIATE
2026-04-10

DATE:

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

TITLE
ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
LIGHTING DESIGN CRITERIA TABLES
9TH & 8TH STREET

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-13	P2

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PBX ENGINEERING LTD.
PERMIT TO PRACTICE NUMBER:
1000208

LIGHTING DESIGN CRITERIA

PER: RP-8-25 & CoNW DESIGN CRITERIA SECTION 6.4

ITEM	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES
STREET NAME(S)	LONDON STREET		LONDON STREET & 23RD STREET		LONDON STREET & 22ND STREET		LONDON STREET & 20TH STREET (N)		LONDON STREET & 20TH STREET (S)		LONDON STREET & 19TH STREET		LONDON STREET & 18TH STREET	
LAND USE CLASSIFICATION	RESIDENTIAL		RESIDENTIAL		RESIDENTIAL		RESIDENTIAL		RESIDENTIAL		RESIDENTIAL		RESIDENTIAL	
ROADWAY CLASSIFICATION	LOCAL		LOCAL/LOCAL		LOCAL/LOCAL		COLLECTOR/LOCAL		COLLECTOR/LOCAL		LOCAL/LOCAL		LOCAL/LOCAL	
PEDESTRIAN ACTIVITY LEVEL	LOW		LOW		LOW		LOW		LOW		LOW		LOW	
LUMINAIRE DESCRIPTION, MANUFACTURER & MODEL	NXT 24S-0-7-3HB-3-GY-3-UL-X-2H NXT 24S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 48M-0-7-3HB-6-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H	
PHOTOMETRIC FILE NUMBER	NXT-24S-350mA-3HB-4000K.ies NXT-24S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-48M-600mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies	
LUMINAIRE WATTAGE AND LIGHT SOURCE	28W & 35W LED		52W LED		52W LED		80W LED		52W LED		52W LED		52W LED	
LIGHT LOSS FACTOR	0.81		0.81		0.81		0.81		0.81		0.81		0.81	
LUMINAIRE DISTRIBUTION	TYPE III		TYPE III		TYPE III		TYPE III		TYPE III		TYPE III		TYPE III	
POLE HEIGHT (m)	9.0m		9.0m		9.0m		9.0m		9.5m		9.0m		9.0m	
ILLUMINANCE LEVEL (Eavg)	4.5 LUX	5.3 LUX	8.0 LUX	8.9 LUX	8.0 LUX	9.2 LUX	12.0 LUX	13.1 LUX	12.0 LUX	12.0 LUX	8.0 LUX	9.0 LUX	8.0 LUX	9.9 LUX
UNIFORMITY RATIO (Eavg:Emin)	6.0:1	5.9:1	6.0:1	4.1:1	6.0:1	3.2:1	4.0:1	4.0:1	4.0:1	3.2:1	6.0:1	4.5:1	6.0:1	5.5:1

LIGHTING DESIGN CRITERIA

PER: RP-8-25 & CoNW DESIGN CRITERIA SECTION 6.4

ITEM	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES	REQUIRED VALUES	CALCULATED VALUES
STREET NAME(S)	LONDON STREET & 16TH STREET		LONDON STREET & 15TH STREET		LONDON STREET & 14TH STREET		LONDON STREET & HILL STREET		LONDON STREET & HENLEY STREET		LONDON STREET & 10TH STREET			
LAND USE CLASSIFICATION	RESIDENTIAL		RESIDENTIAL		RESIDENTIAL		RESIDENTIAL		RESIDENTIAL		RESIDENTIAL			
ROADWAY CLASSIFICATION	LOCAL/LOCAL		LOCAL/LOCAL		LOCAL/LOCAL		LOCAL/LOCAL		LOCAL/LOCAL		LOCAL/LOCAL			
PEDESTRIAN ACTIVITY LEVEL	LOW		LOW		LOW		LOW		LOW					
LUMINAIRE DESCRIPTION, MANUFACTURER & MODEL	NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 24S-0-7-3HB-3-GY-3-UL-X-2H NXT 24S-0-7-3HB-4-GY-3-UL-X-2H		NXT 36S-0-7-3HB-4-GY-3-UL-X-2H		NXT 24S-0-7-3HB-4-GY-3-UL-X-2H			
PHOTOMETRIC FILE NUMBER	NXT-36S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-24S-350mA-3HB-4000K.ies NXT-24S-450mA-3HB-4000K.ies		NXT-36S-450mA-3HB-4000K.ies		NXT-24S-450mA-3HB-4000K.ies			
LUMINAIRE WATTAGE AND LIGHT SOURCE	52W LED		52W LED		52W LED		28W & 35W LED		52W LED		35W LED			
LIGHT LOSS FACTOR	0.81		0.81		0.81		0.81		0.81		0.81			
LUMINAIRE DISTRIBUTION	TYPE III		TYPE III		TYPE III		TYPE III		TYPE III		TYPE III			
POLE HEIGHT (m)	9.0m		9.0m		9.0m		9.0m		9.0m		9.0m			
ILLUMINANCE LEVEL (Eavg)	8.0 LUX	8.8 LUX	8.0 LUX	9.7 LUX	8.0 LUX	9.2 LUX	8.0 LUX	8.1 LUX	8.0 LUX	8.6 LUX	8.0 LUX	10.1 LUX		
UNIFORMITY RATIO (Eavg:Emin)	6.0:1	3.7:1	6.0:1	5.4:1	6.0:1	5.4:1	6.0:1	1.6:1	6.0:1	3.4:1	6.0:1	3.1:1		

ISSUED FOR TENDER
NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P1	26APR10	ISSUED FOR TENDER	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45928, ENGINEER

DATE: 2026-04-10

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
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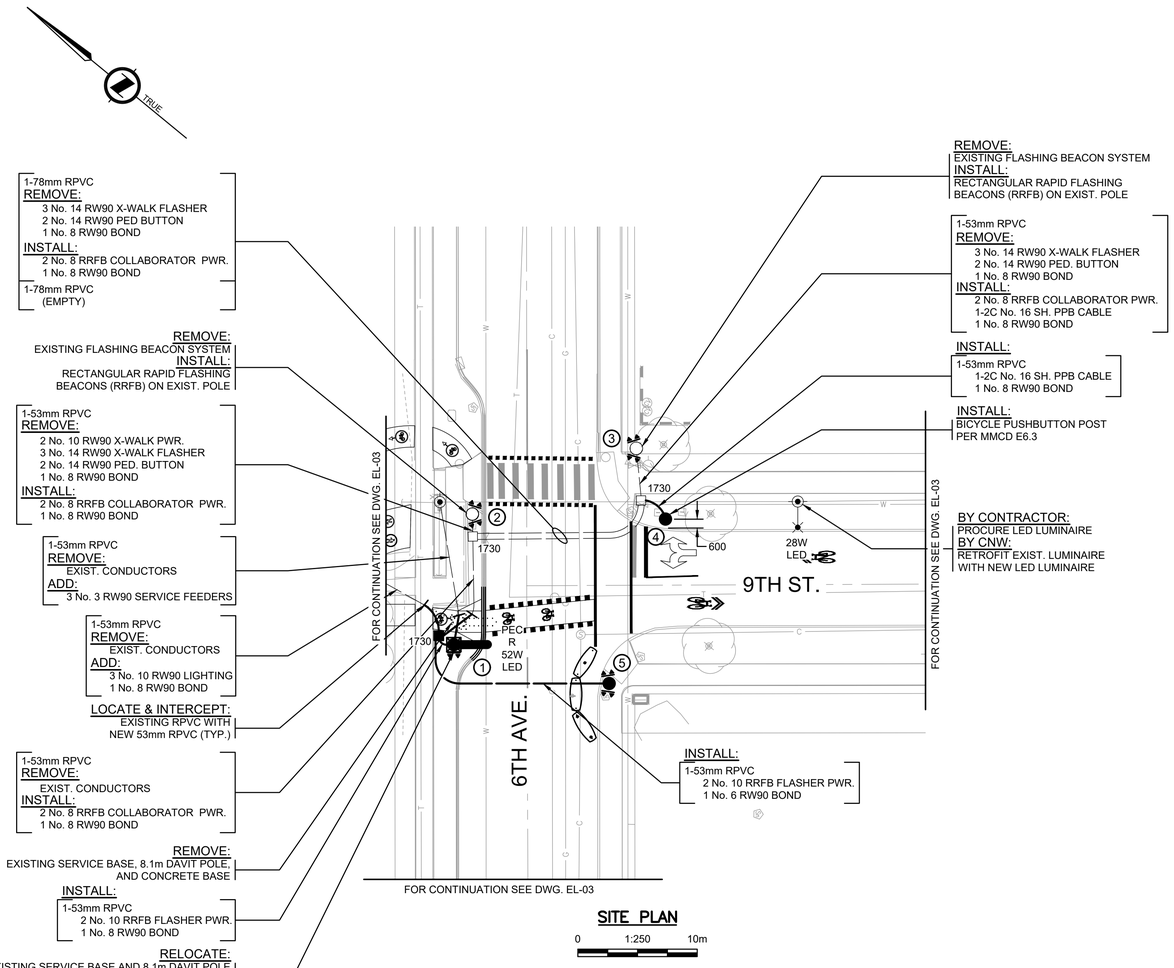
TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
LIGHTING DESIGN CRITERIA TABLES
LONDON STREET

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-14	P1

R:\241248_CoNW_2025_ATNP_Year 2\Drawings\ACAD\EL-14, 10/04/2026 1:00 PM, YURI.ROCHA

GENERAL NOTES:

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW WESTMINSTER APPROVED MMCD VERSION, FOLLOWED BY NEW WESTMINSTER SUPPLEMENTARY MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.
2. THE CONTRACTOR SHALL NOT PRE-DRILL HOLES IN A SIGNAL POLE UNTIL AFTER THE BASE FOR THAT POLE HAS BEEN INSTALLED. THE CONTRACTOR SHALL ADVISE THE CONTRACT ADMINISTRATOR OF ANY ADJUSTMENTS MADE TO THE BASE LOCATION WHICH WILL EFFECT THE LOCATIONS OF HARDWARE TO BE MOUNTED ON THAT POLE PRIOR TO DRILLING.
3. THE CONTRACTOR SHALL REPLACE ALL ASPHALT REMOVED DURING CONSTRUCTION.
4. ALL CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOUR CODED.
5. ALL STREET LIGHT POLES, SIGNAL POLES, SERVICE BASES AND JUNCTION BOX LIDS SHALL BE GALVANIZED.
6. ALL STREET LIGHT POLES AND SIGNAL POLES SHALL BE POWDER COATED BLACK, RAL 9005.
7. ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND BULLETINS PUBLISHED BY TECHNICAL SAFETY BC.
8. ALL WORK SHALL CONFORM TO ALL APPLICABLE REGULATIONS OF WORKSAFE BC.
9. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS, EQUIPMENT AND LABOUR TO COMPLETE THE WORKS, EXCEPT AS NOTED.
10. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT MoTI TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES FOR PERMITS AND INSPECTIONS, AS REQUIRED BY THE BC SAFETY AUTHORITY.
12. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
13. ALL SYMBOLS ARE NOT TO SCALE.
14. ENSURE CLEARANCES FROM OVERHEAD UTILITY LINES MEET UTILITY AND WORKSAFE BC REGULATIONS PRIOR TO CONCRETE BASE INSTALLATION. CONTACT PBX ENGINEERING IN THE EVENT OF CONFLICT.
15. WHERE POSSIBLE, POLES SHALL BE POSITIONED WITH THE HANDHOLE IN THE BACK OR IF NOT POSSIBLE, ON THE DOWNSTREAM TRAFFIC SIDE.
16. LUMINAIRES WITHOUT PHOTOCELL SHALL HAVE A SHORTING CAP.
17. ALL REDUNDANT HOLES IN POLES SHALL BE TREATED WITH GALVACON PAINT AND PLUGGED USING SUITABLE GALVANIZED AND BLACK POWDER COATED PLUG OR COVER PLATE.
18. ALL CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY ON THE DRAWINGS. THE CONTRACTOR MAY OPTIMIZE THE ROUTING BASED ON FIELD CONDITIONS TO MINIMIZE TRENCHING AND AVOID CONFLICTS.
19. CONTRACTORS TO CONFIRM JUNCTION BOX LIDS ARE ELECTRICALLY BONDED.
20. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PRIOR TO ORDERING EQUIPMENT.
21. ALL SIGNAL CABLE SHALL MEET CURRENT C.S.A. STANDARDS C22.2 - No.239-97. CONTROL CABLE SIGNALS SHALL ALL BE WIRED WITH SIGNAL CABLE (STRANDED CONDUCTORS FOR ALL UNDERGROUND CABLE AND RISERS IN POLES).
22. ALL TRAFFIC SIGNAL CONDUCTORS TO BE CONNECTED IN THE POLE HANDHOLE, SPLICING OF TRAFFIC SIGNAL CONDUCTORS IN JUNCTION BOXES IS NOT PERMITTED.
23. CONDUITS, BASES, & JUNCTION BOXES SHALL BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR WHO IS REQUIRED TO OBTAIN A PERMIT FROM THE ELECTRICAL SAFETY BRANCH INSPECTOR.
24. WIRING AND SPLICING OF STREET LIGHTING CONDUCTORS TO BE PER NEW WESTMINSTER DWG SSD-R.E.13. AN 'ELASTIMOLD 65.U' FUSED CONNECTOR KIT, C/W A 10A BUSS BAN FUSE SHALL BE INSTALLED IN EACH LUMINAIRE LIVE CONDUCTOR IN THE HANDHOLE.
25. EXACT POSITION OF ALL EQUIPMENT SHALL BE CONFIRMED WITH CITY DESIGNATED ELECTRICAL ENGINEER & CIVIL ENGINEER IN THE FIELD BEFORE INSTALLATION.
26. ALL CONDUITS UNDER ROADWAY SHALL BE BURIED MIN. 900mm DEEP, ALL OTHER CONDUITS SHALL BE BURIED MIN. 600mm DEEP & EMBEDDED IN SAND 150mm ABOVE & BELOW A 'BURIED CABLE' MARKER. TAPE SHALL BE INSTALLED IN ALL TRENCHES (300mm ABOVE INSTALLED CONDUIT).
27. EMPTY CONDUITS SHALL HAVE A NYLON PULL STRING INSTALLED AND ENDS CAPPED.
28. COMMON CIRCUIT WIRING SHALL BE TAPPED TOGETHER & TAGGED AS NOTED. TRAFFIC SIGNAL COMMON TO BE KEPT SEPARATE FROM STREET LIGHTING COMMON CONDUCTOR.
29. 1.0m OF CABLE OR CONDUCTOR SLACKS IS TO BE COILED IN EACH JUNCTION BOX PER DWG SSD-R.E7.
30. RESTORATION OF EXISTING DRIVEWAYS, CURBS, STAIRS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS AND TO BE INCIDENTAL TO THE UNIT PRICES IN THE CONTRACT FOR MAINLINE AND SERVICE CONNECTIONS.
31. EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION. IN THE EVENT OF LANDSCAPING REMOVAL THE PROPERTY OWNER SHALL BE ADVISED OF THE REMOVAL AND THE LANDSCAPING PLACED IN OWNERS PROPERTY UPON THEIR REQUEST.
32. THE CONTRACTOR SHALL PROCURE ALL EQUIPMENT/MATERIAL REQUIRED TO COMPLETE THE CONSTRUCTION OF THIS SCOPE. CONTRACTOR SHALL COORDINATE DELIVERY OF LUMINAIRE ARM AND LED LUMINAIRES THAT ARE BEING INSTALLED ON THE CITY OF NEW WESTMINSTER ELECTRICAL UTILITY POLES.



SITE PLAN

0 1:250 10m

LEGEND

MODIFIED	EXISTING	PROPOSED	
			4.0m RRFB POLE
			1.4m PUSHBUTTON POST
			STREET LIGHT ON CoNW ELECTRICAL UTILITY POLE (BY CoNW)
	□ #	■ #	JUNCTION BOX (# DENOTES TYPE)
			RELOCATED 8.1m POLE WITH 100A, 120/240V SERVICE BASE
			CONDUIT (AS SHOWN)
			REMOVAL (AS SHOWN)

LIGHTING DESIGN CRITERIA

PER: RP-8-25 & CoNW DESIGN CRITERIA SECTION 6.4

ITEM	REQUIRED VALUES	CALCULATED VALUES
STREET NAME(S)	9TH STREET & 6TH AVENUE	
LAND USE CLASSIFICATION	RESIDENTIAL	
ROADWAY CLASSIFICATION	COLLECTOR/LOCAL	
PEDESTRIAN ACTIVITY LEVEL	LOW	
LUMINAIRE DESCRIPTION, MANUFACTURER & MODEL	NXT 24S-0-7-3HB-4-GY-3-UL-X-2H NXT 36S-0-7-3HB-4-GY-3-UL-X-2H	
PHOTOMETRIC FILE NUMBER	NXT-24S-450mA-3HB-4000K.ies NXT-36s-450mA-3HB-4000K.ies	
LUMINAIRE WATTAGE AND LIGHT SOURCE	28W, 52W LED	
LIGHT LOSS FACTOR	0.81	
LUMINAIRE DISTRIBUTION	TYPE III	
POLE HEIGHT (m)	9.0m	
ILLUMINANCE LEVEL (Eavg)	10.0 LUX	10.5 LUX
UNIFORMITY RATIO (Eavg:Emin)	4.0:1	2.9:1

RRFB DEVICE SETTINGS

FLASH MODE: RRFB

FLASH DURATION: 15 SEC

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P2	26APR10	ISSUED FOR TENDER	JG	YR	AH
P1	25AUG15	ISSUED FOR 70% DESIGN	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: 1000208

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45928

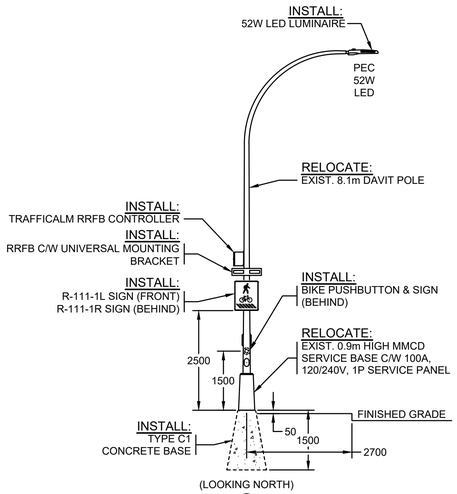
DATE: 2026-04-10

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
SITE PLAN - 9TH ST. AND 6TH AVE.

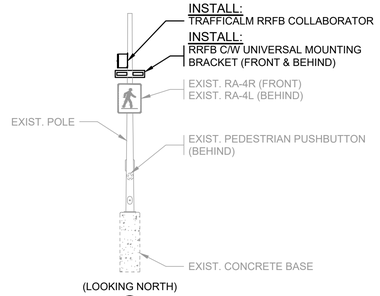
SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-15	P2

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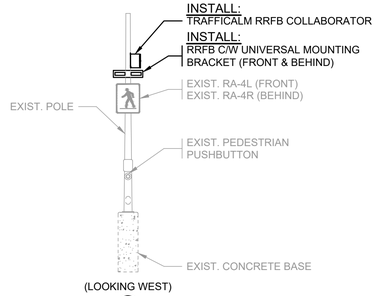
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RELOCATE



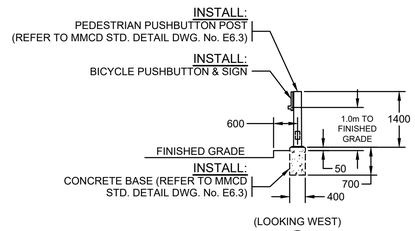
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MODIFY



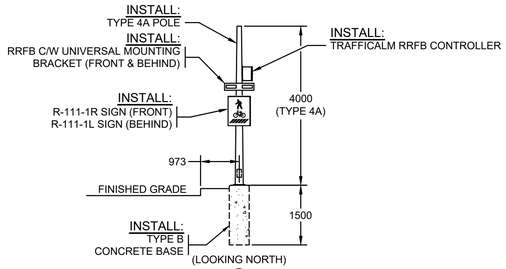
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MODIFY



4

NEW



5

NEW

ELEVATIONS

0 1:75 5

APPROVED PRODUCT LIST			
PRODUCT	MANUFACTURER	SPECIFICATION	EXCEPTIONS
POLES, ANCHOR BOLTS & SERVICE BASE	NOVA POLE INTERNATIONAL	M.M.C.D.	GALVANIZED
	WEST COAST ENGINEERING		
COMPOSITE JB	OLDCASTLE	TIER 22	SIZE AS NOTED
CONCRETE BASE	AE CONCRETE	M.M.C.D.	-
PEDESTRIAN & BIKE PUSHBUTTONS	POLARA	BULLDOG	-
PUSHBUTTON SIGNS	POLARA	GEL 239 (PEDESTRIAN)	BLACK WITH WHITE BACKGROUND
		GEL 240 (BICYCLE)	
LED LUMINAIRES	LED ROADWAY LIGHTING	NXT 36S-0-7-3HB-4-GY-3-UL-X-2H	-
CABLE LABELS	PANDUIT	MP250C	ON ALL CABLES
RRFB	TRAFFICALM	M75-SA328-7500	-

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P2	26APR10	ISSUED FOR TENDER	JG	YR	AH
P1	25AUG15	ISSUED FOR 70% DESIGN	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45929, ENGINEERING, 2026-04-10

DATE:

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

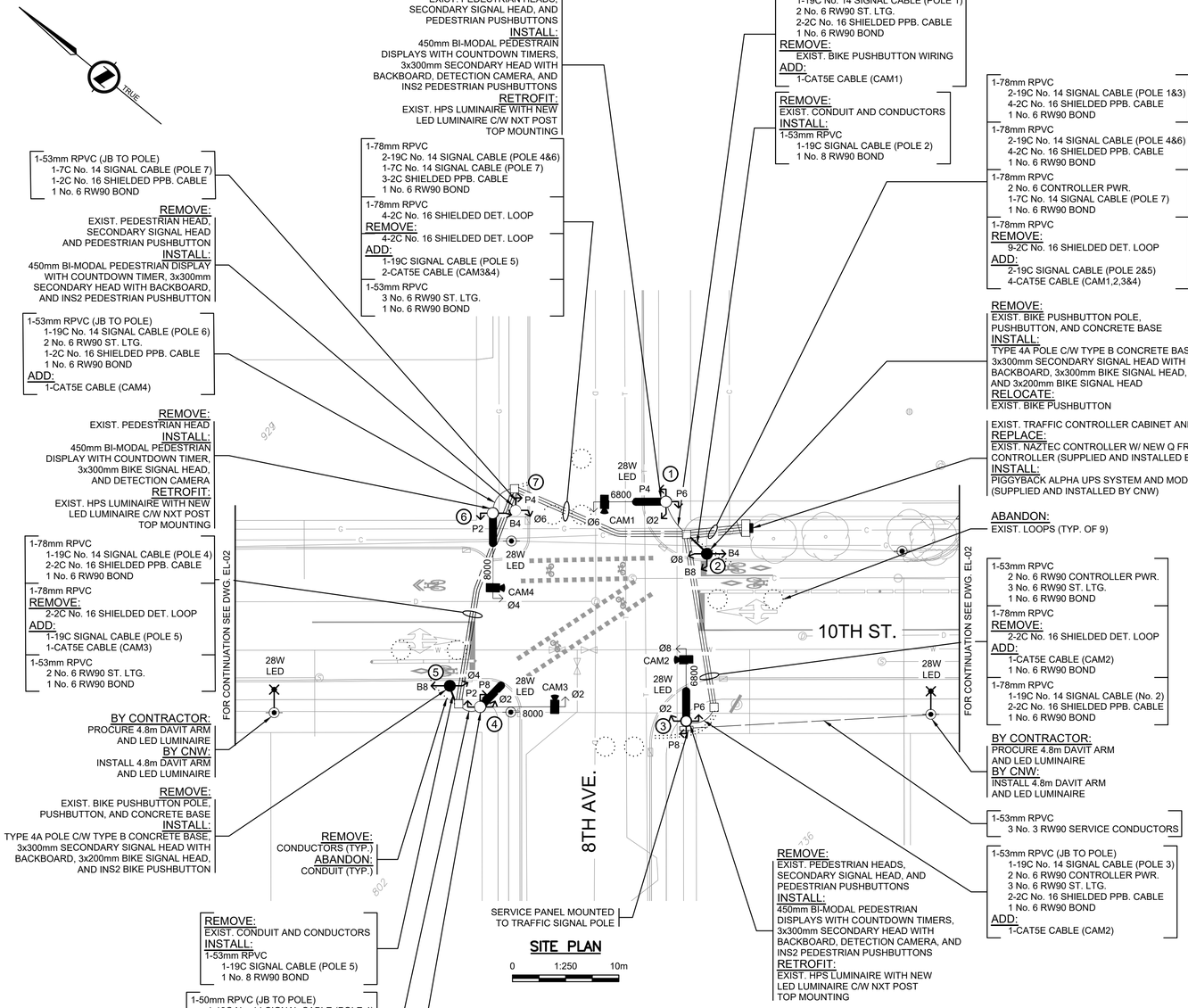
TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
ELEVATIONS - 9TH ST. AND 6TH AVE.

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-16	P2

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GENERAL NOTES:

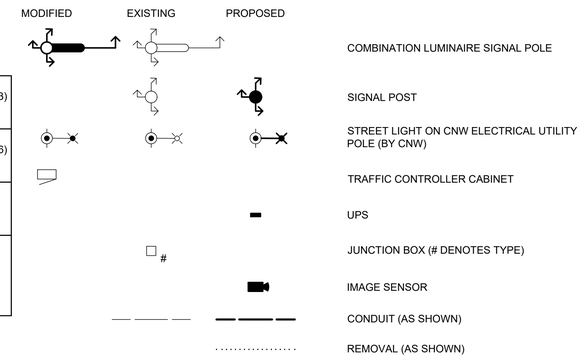
1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW WESTMINSTER APPROVED MMCD VERSION, FOLLOWED BY NEW WESTMINSTER SUPPLEMENTARY MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.
2. THE CONTRACTOR SHALL NOT PRE-DRILL HOLES IN A SIGNAL POLE UNTIL AFTER THE BASE FOR THAT POLE HAS BEEN INSTALLED. THE CONTRACTOR SHALL ADVISE THE CONTRACT ADMINISTRATOR OF ANY ADJUSTMENTS MADE TO THE BASE LOCATION WHICH WILL EFFECT THE LOCATIONS OF HARDWARE TO BE MOUNTED ON THAT POLE PRIOR TO DRILLING.
3. THE CONTRACTOR SHALL REPLACE ALL ASPHALT REMOVED DURING CONSTRUCTION.
4. ALL CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOUR CODED.
5. ALL STREET LIGHT POLES, SIGNAL POLES, SERVICE BASES AND JUNCTION BOX LIDS SHALL BE GALVANIZED.
6. ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND BULLETINS PUBLISHED BY TECHNICAL SAFETY BC.
7. ALL WORK SHALL CONFORM TO ALL APPLICABLE REGULATIONS OF WORKSAFE BC.
8. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS, EQUIPMENT AND LABOUR TO COMPLETE THE WORKS, EXCEPT AS NOTED.
9. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT MoTI TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES FOR PERMITS AND INSPECTIONS, AS REQUIRED BY THE BC SAFETY AUTHORITY.
11. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
12. ALL SYMBOLS ARE NOT TO SCALE.
13. ENSURE CLEARANCES FROM OVERHEAD UTILITY LINES MEET UTILITY AND WORKSAFE BC REGULATIONS PRIOR TO CONCRETE BASE INSTALLATION. CONTACT PBX ENGINEERING IN THE EVENT OF CONFLICT.
14. WHERE POSSIBLE, POLES SHALL BE POSITIONED WITH THE HANDHOLE IN THE BACK OR IF NOT POSSIBLE, ON THE DOWNSTREAM TRAFFIC SIDE.
15. LUMINAIRES WITHOUT PHOTOCELL SHALL HAVE A SHORTING CAP.
16. ALL REDUNDANT HOLES IN POLES SHALL BE TREATED WITH GALVACON PAINT AND PLUGGED USING SUITABLE GALVANIZED AND BLACK POWDER COATED PLUG OR COVER PLATE.
17. ALL CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY ON THE DRAWINGS. THE CONTRACTOR MAY OPTIMIZE THE ROUTING BASED ON FIELD CONDITIONS TO MINIMIZE TRENCHING AND AVOID CONFLICTS.
18. CONTRACTORS TO CONFIRM JUNCTION BOX LIDS ARE ELECTRICALLY BONDED.
19. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PRIOR TO ORDERING EQUIPMENT.
20. ALL SIGNAL CABLE SHALL MEET CURRENT C.S.A. STANDARDS C22.2 - No.239-97. CONTROL CABLE SIGNALS SHALL ALL BE WIRED WITH SIGNAL CABLE (STRANDED CONDUCTORS FOR ALL UNDERGROUND CABLE AND RISERS IN POLES).
21. ALL TRAFFIC SIGNAL CONDUCTORS TO BE CONNECTED IN THE POLE HANDHOLE, SPLICING OF TRAFFIC SIGNAL CONDUCTORS IN JUNCTION BOXES IS NOT PERMITTED.
22. CONDUITS, BASES, & JUNCTION BOXES SHALL BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR WHO IS REQUIRED TO OBTAIN A PERMIT FROM THE ELECTRICAL SAFETY BRANCH INSPECTOR.
23. WIRING AND SPLICING OF STREET LIGHTING CONDUCTORS TO BE PER NEW WESTMINSTER DWG SSD-R.E.13. AN 'ELASTIMOLD 65.U' FUSED CONNECTOR KIT, C/W A 10A BUSS BAN FUSE SHALL BE INSTALLED IN EACH LUMINAIRE LIVE CONDUCTOR IN THE HANDHOLE.
24. EXACT POSITION OF ALL EQUIPMENT SHALL BE CONFIRMED WITH CITY DESIGNATED ELECTRICAL ENGINEER & CIVIL ENGINEER IN THE FIELD BEFORE INSTALLATION.
25. ALL CONDUITS UNDER ROADWAY SHALL BE BURIED MIN. 900mm DEEP, ALL OTHER CONDUITS SHALL BE BURIED MIN. 600mm DEEP & EMBEDDED IN SAND 150mm ABOVE & BELOW A 'BURIED CABLE' MARKER. TAPE SHALL BE INSTALLED IN ALL TRENCHES (300mm ABOVE INSTALLED CONDUIT).
26. EMPTY CONDUITS SHALL HAVE A NYLON PULL STRING INSTALLED AND ENDS CAPPED.
27. COMMON CIRCUIT WIRING SHALL BE TAPPED TOGETHER & TAGGED AS NOTED. TRAFFIC SIGNAL COMMON TO BE KEPT SEPARATE FROM STREET LIGHTING COMMON CONDUCTOR.
28. 1.0m OF CABLE OR CONDUCTOR SLACKS IS TO BE COILED IN EACH JUNCTION BOX PER DWG SSD-R.E7.
29. RESTORATION OF EXISTING DRIVEWAYS, CURBS, STAIRS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS AND TO BE INCIDENTAL TO THE UNIT PRICES IN THE CONTRACT FOR MAINLINE AND SERVICE CONNECTIONS.
30. EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION. IN THE EVENT OF LANDSCAPING REMOVAL THE PROPERTY OWNER SHALL BE ADVISED OF THE REMOVAL AND THE LANDSCAPING PLACED IN OWNERS PROPERTY UPON THEIR REQUEST.
32. TTHE CONTRACTOR SHALL PROCURE ALL EQUIPMENT/MATERIAL REQUIRED TO COMPLETE THE CONSTRUCTION OF THIS SCOPE, EXCEPT CONTROLLERS, AND UPS. CONTRACTOR SHALL COORDINATE DELIVERY OF LUMINAIRE ARM AND LED LUMINAIRES THAT ARE BEING INSTALLED ON THE CITY OF NEW WESTMINSTER ELECTRICAL UTILITY POLES.
33. TRAFFIC SIGNAL PROGRAMMING BY CONSULTANT. CONTRACTOR TO COORDINATE WITH THE CITY AND CONSULTANT TO BE ON SIDE DURING COMMISSIONING.
34. CONTRACTOR SHALL RETURN EXISTING CONTROLLER TO THE CITY.



SITE PLAN

0 1:250 10m

LEGEND

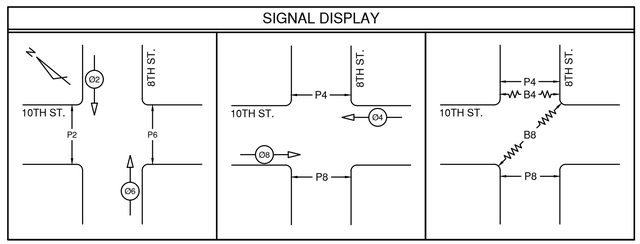


LIGHTING DESIGN CRITERIA

PER: RP-8-25 & CNW DESIGN CRITERIA SECTION 6.4

ITEM	REQUIRED VALUES	CALCULATED VALUES
STREET NAME(S)	10TH STREET & 8TH AVENUE	
LAND USE CLASSIFICATION	RESIDENTIAL	
ROADWAY CLASSIFICATION	COLLECTOR/LOCAL	
PEDESTRIAN ACTIVITY LEVEL	LOW	
LUMINAIRE DESCRIPTION, MANUFACTURER & MODEL	NXT 24S-0-7-3HB-3-GY-3-UL-X-2H	
PHOTOMETRIC FILE NUMBER	NXT-24S-350mA-3HB-4000K.ies	
LUMINAIRE WATTAGE AND LIGHT SOURCE	28W LED	
LIGHT LOSS FACTOR	0.81	
LUMINAIRE DISTRIBUTION	TYPE III	
POLE HEIGHT (m)	7.5m	
ILLUMINANCE LEVEL (Eavg)	10.0 LUX	11.8 LUX
UNIFORMITY RATIO (Eavg:Emin)	4.0:1	1.7:1

SIGNAL DISPLAY



ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P1	26APR10	ISSUED FOR TENDER	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45908, 2026-04-10

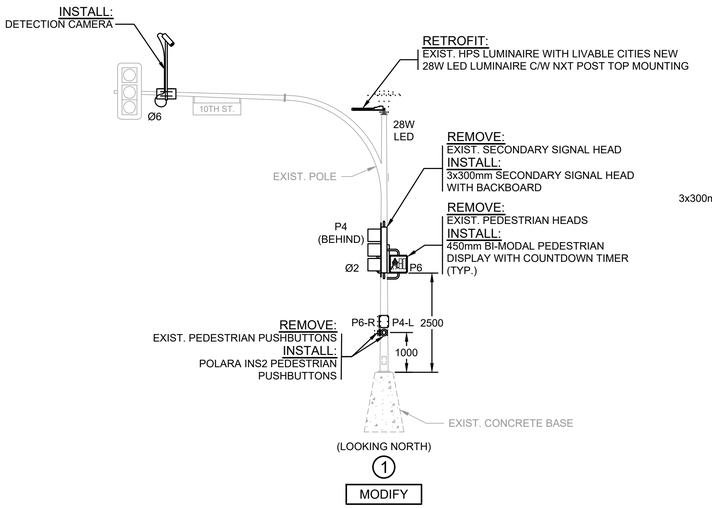
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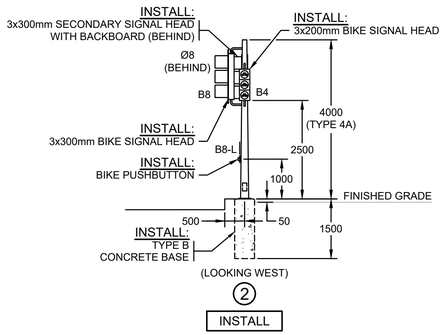
PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

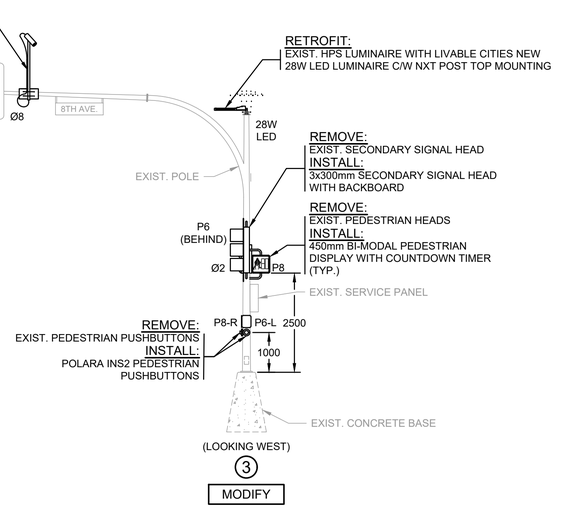
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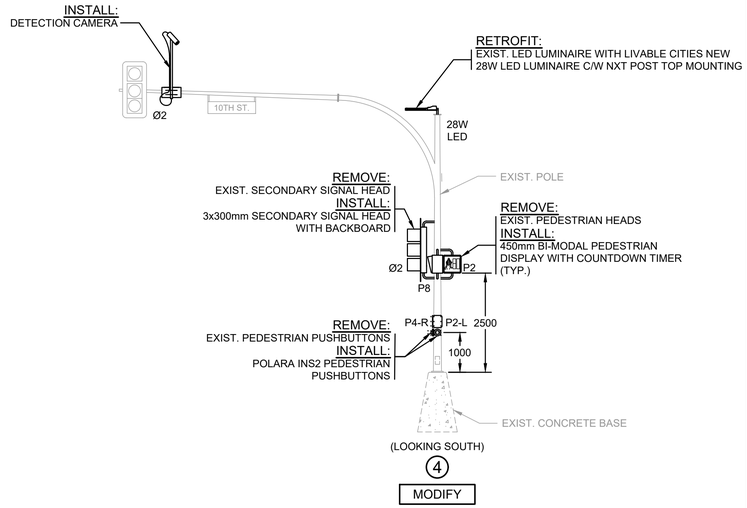
SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-17	P1

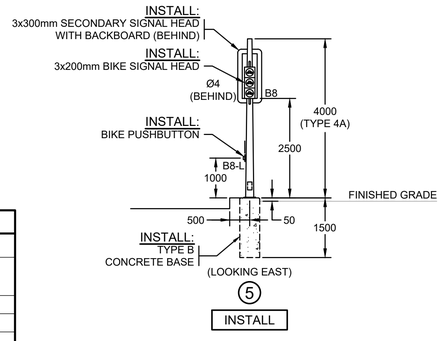
P:\241248 CoNW 2025 ATNP Year 2\Drawings\ACAD\ EL--17- 10/24/2026 1:17 PM XURI ROCHA

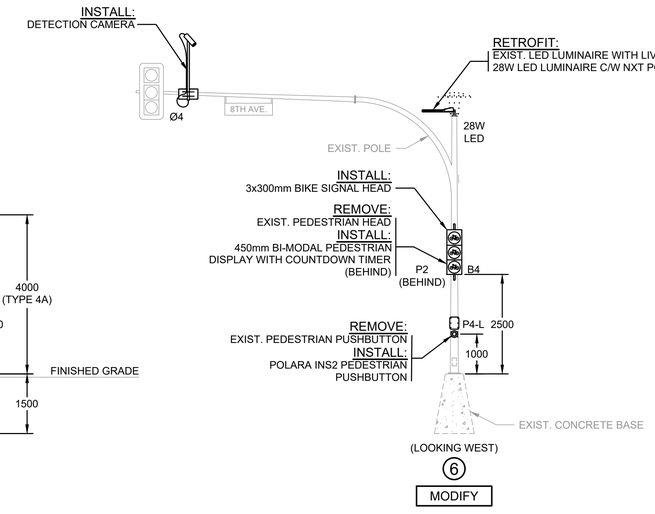


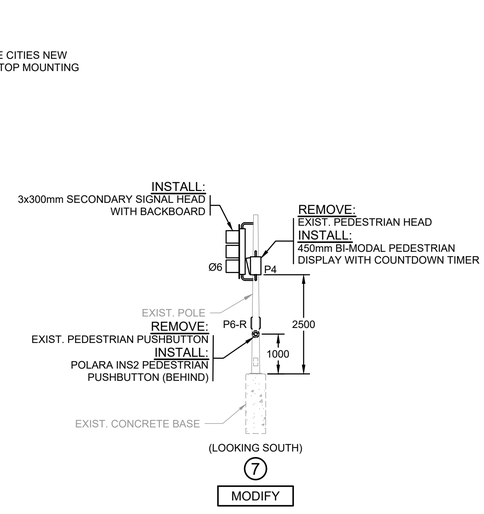












ELEVATIONS

0 1:75 5

APPROVED PRODUCT LIST			
PRODUCT	MANUFACTURER	SPECIFICATION	EXCEPTIONS
POLES, ANCHOR BOLTS & SERVICE BASE	NOVA POLE INTERNATIONAL	M.M.C.D.	GALVANIZED
	WEST COAST ENGINEERING		
COMPOSITE JB	OLDCASTLE	TIER 22	SIZE AS NOTED
CONCRETE BASE	AE CONCRETE	M.M.C.D.	-
SIGNAL HEADS	DIALIGHT	LED LENS WITH 15 YEAR WARRANTY	GREEN BODY
PEDESTRIAN PUSHBUTTONS	POLARA	INS2	-
PEDESTRIAN PUSHBUTTON SIGNS	POLARA	R10-3	BLACK WITH WHITE BACKGROUND
BIKE PUSHBUTTONS	POLARA	BULLDOG	-
BIKE PUSHBUTTON SIGNS	GREENLITE TRAFFIC	GEL 240	BLACK WITH WHITE BACKGROUND
LED LUMINAIRES	LED ROADWAY LIGHTING	NXT 24S-0-7-3HB-3-GY-3-UL-X-2H	-
POST TOP ADAPTER	LED ROADWAY LIGHTING	FP-PTB-NXT-GREY-LF	-
SIDE MOUNT BRACKETS	GREENLITE TRAFFIC	GEL 189	GREEN COLOUR
SIDE MOUNT BRACKET EXTENSION	GREENLITE TRAFFIC	GEL 194	GREEN COLOUR
COUNTDOWN PEDESTRIAN SIGNAL HEAD	DIALIGHT	450mm BI-MODAL	GREEN BODY
CABLE LABELS	PANDUIT	MP250C	ON ALL CABLES
CAMERA	ITERIS	VANTAGE NEXT CAMERA DETECTION SYSTEM	-
CONTROLLER	TACEL Q FREE	-	SUPPLIED BY THE CITY
UPS	ALPHA TECHNOLOGIES	-	SUPPLIED BY THE CITY

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P1	26APR10	ISSUED FOR TENDER	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45628, ENGINEER

DATE: 2026-04-10

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

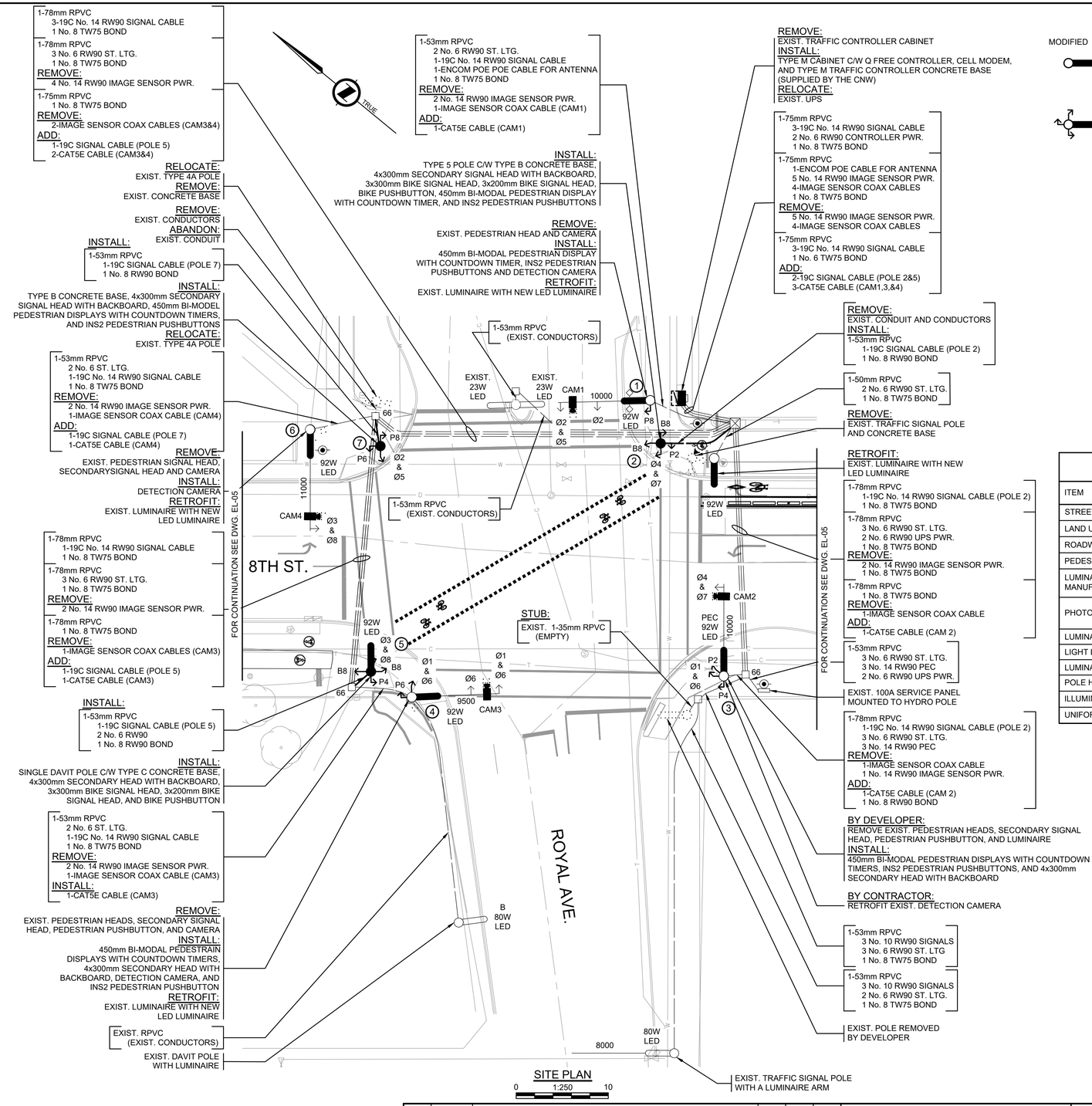
TITLE: ELEVATIONS - 10TH STREET AND 8TH AVENUE

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-18	P1

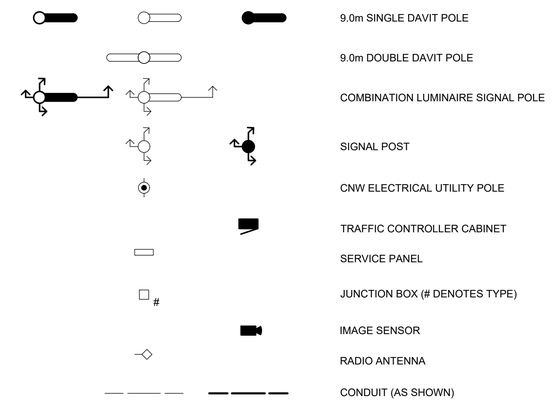
P:\241248_CoNW_2025_ATNP_Year 2\Drawings\AC240\EL-18, 10/04/2026 1:08 PM, YURI.ROCHA

GENERAL NOTES:

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW WESTMINSTER APPROVED MMCD VERSION, FOLLOWED BY NEW WESTMINSTER SUPPLEMENTARY MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.
2. THE CONTRACTOR SHALL NOT PRE-DRILL HOLES IN A SIGNAL POLE UNTIL AFTER THE BASE FOR THAT POLE HAS BEEN INSTALLED. THE CONTRACTOR SHALL ADVISE THE CONTRACT ADMINISTRATOR OF ANY ADJUSTMENTS MADE TO THE BASE LOCATION WHICH WILL EFFECT THE LOCATIONS OF HARDWARE TO BE MOUNTED ON THAT POLE PRIOR TO DRILLING.
3. THE CONTRACTOR SHALL REPLACE ALL ASPHALT REMOVED DURING CONSTRUCTION.
4. ALL CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOUR CODED.
5. ALL STREET LIGHT POLES, SIGNAL POLES, SERVICE BASES AND JUNCTION BOX LIDS SHALL BE GALVANIZED.
6. ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND BULLETINS PUBLISHED BY TECHNICAL SAFETY BC.
7. ALL WORK SHALL CONFORM TO ALL APPLICABLE REGULATIONS OF WORKSAFE BC.
8. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS, EQUIPMENT AND LABOUR TO COMPLETE THE WORKS, EXCEPT AS NOTED.
9. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT MoTI TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES FOR PERMITS AND INSPECTIONS, AS REQUIRED BY THE BC SAFETY AUTHORITY.
11. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
12. ALL SYMBOLS ARE NOT TO SCALE.
13. ENSURE CLEARANCES FROM OVERHEAD UTILITY LINES MEET UTILITY AND WORKSAFE BC REGULATIONS PRIOR TO CONCRETE BASE INSTALLATION. CONTACT PBX ENGINEERING IN THE EVENT OF CONFLICT.
14. WHERE POSSIBLE, POLES SHALL BE POSITIONED WITH THE HANDHOLE IN THE BACK OR IF NOT POSSIBLE, ON THE DOWNSTREAM TRAFFIC SIDE.
15. LUMINAIRES WITHOUT PHOTOCELL SHALL HAVE A SHORTING CAP.
16. ALL REDUNDANT HOLES IN POLES SHALL BE TREATED WITH GALVACON PAINT AND PLUGGED USING SUITABLE GALVANIZED AND BLACK POWDER COATED PLUG OR COVER PLATE.
17. ALL CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY ON THE DRAWINGS. THE CONTRACTOR MAY OPTIMIZE THE ROUTING BASED ON FIELD CONDITIONS TO MINIMIZE TRENCHING AND AVOID CONFLICTS.
18. CONTRACTORS TO CONFIRM JUNCTION BOX LIDS ARE ELECTRICALLY BONDED.
19. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PRIOR TO ORDERING EQUIPMENT.
20. ALL SIGNAL CABLE SHALL MEET CURRENT C.S.A. STANDARDS C22.2 - No.239-97. CONTROL CABLE SIGNALS SHALL ALL BE WIRED WITH SIGNAL CABLE (STRANDED CONDUCTORS FOR ALL UNDERGROUND CABLE AND RISERS IN POLES).
21. ALL TRAFFIC SIGNAL CONDUCTORS TO BE CONNECTED IN THE POLE HANDHOLE, SPLICING OF TRAFFIC SIGNAL CONDUCTORS IN JUNCTION BOXES IS NOT PERMITTED.
22. CONDUITS, BASES, & JUNCTION BOXES SHALL BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR WHO IS REQUIRED TO OBTAIN A PERMIT FROM THE ELECTRICAL SAFETY BRANCH INSPECTOR.
23. WIRING AND SPLICING OF STREET LIGHTING CONDUCTORS TO BE PER NEW WESTMINSTER DWG SSD-R.E.13. AN 'ELASTIMOLD 65.U' FUSED CONNECTOR KIT, C/W A 10A BUSS BAN FUSE SHALL BE INSTALLED IN EACH LUMINAIRE LIVE CONDUCTOR IN THE HANDHOLE.
24. EXACT POSITION OF ALL EQUIPMENT SHALL BE CONFIRMED WITH CITY DESIGNATED ELECTRICAL ENGINEER & CIVIL ENGINEER IN THE FIELD BEFORE INSTALLATION.
25. ALL CONDUITS UNDER ROADWAY SHALL BE BURIED MIN. 900mm DEEP, ALL OTHER CONDUITS SHALL BE BURIED MIN. 600mm DEEP & EMBEDDED IN SAND 150mm ABOVE & BELOW A 'BURIED CABLE' MARKER. TAPE SHALL BE INSTALLED IN ALL TRENCHES (300mm ABOVE INSTALLED CONDUIT).
26. EMPTY CONDUITS SHALL HAVE A NYLON PULL STRING INSTALLED AND ENDS CAPPED.
27. COMMON CIRCUIT WIRING SHALL BE TAPPED TOGETHER & TAGGED AS NOTED. TRAFFIC SIGNAL COMMON TO BE KEPT SEPARATE FROM STREET LIGHTING COMMON CONDUCTOR.
28. 1.0m OF CABLE OR CONDUCTOR SLACKS IS TO BE COILED IN EACH JUNCTION BOX PER DWG SSD-R.E7.
29. RESTORATION OF EXISTING DRIVEWAYS, CURBS, STAIRS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS AND TO BE INCIDENTAL TO THE UNIT PRICES IN THE CONTRACT FOR MAINLINE AND SERVICE CONNECTIONS.
30. EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION. IN THE EVENT OF LANDSCAPING REMOVAL THE PROPERTY OWNER SHALL BE ADVISED OF THE REMOVAL AND THE LANDSCAPING PLACED IN OWNERS PROPERTY UPON THEIR REQUEST.
31. THE CONTRACTOR SHALL PROCURE ALL EQUIPMENT/MATERIAL REQUIRED TO COMPLETE THE CONSTRUCTION OF THIS SCOPE, EXCEPT CONTROLLERS, UPS, AND SIGNAL CABINETS.
32. TRAFFIC SIGNAL PROGRAMING BY CONSULTANT. CONTRACTOR TO COORDINATE WITH THE CITY AND CONSULTANT TO BE ON SITE DURING COMMISSIONING.
33. CONTRACTOR SHALL RETURN EXISTING CAMERAS, CONTROLLER AND CABINET TO THE CITY.



LEGEND



LIGHTING DESIGN CRITERIA

PER: RP-8-25 & CNW DESIGN CRITERIA SECTION 6.4

ITEM	REQUIRED VALUES	CALCULATED VALUES
STREET NAME(S)	8TH STREET & ROYAL AVENUE	
LAND USE CLASSIFICATION	RESIDENTIAL	
ROADWAY CLASSIFICATION	MAJOR/COLLECTOR	
PEDESTRIAN ACTIVITY LEVEL	MEDIUM	
LUMINAIRE DESCRIPTION, MANUFACTURER & MODEL	NXT 12S-0-7-2LB-6-GY-3-UL-X-2H NXT 48M-0-7-3HB-6-GY-3-UL-X-2H	
PHOTOMETRIC FILE NUMBER	NXT-12S-600mA-2LB-4000K.ies NXT-48M-600mA-3HB-4000K.ies	
LUMINAIRE WATTAGE AND LIGHT SOURCE	23W & 92W LED	
LIGHT LOSS FACTOR	0.81	
LUMINAIRE DISTRIBUTION	TYPE II & TYPE III	
POLE HEIGHT (m)	9.0m & 9.5m	
ILLUMINANCE LEVEL (Eavg)	22.0 LUX	22.5 LUX
UNIFORMITY RATIO (Eavg:Emin)	3.0:1	2.8:1

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P2	26APR10	ISSUED FOR TENDER	JG	YR	AH
P1	26MAR06	ISSUED FOR 30% DESIGN	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45026, ENGINEER

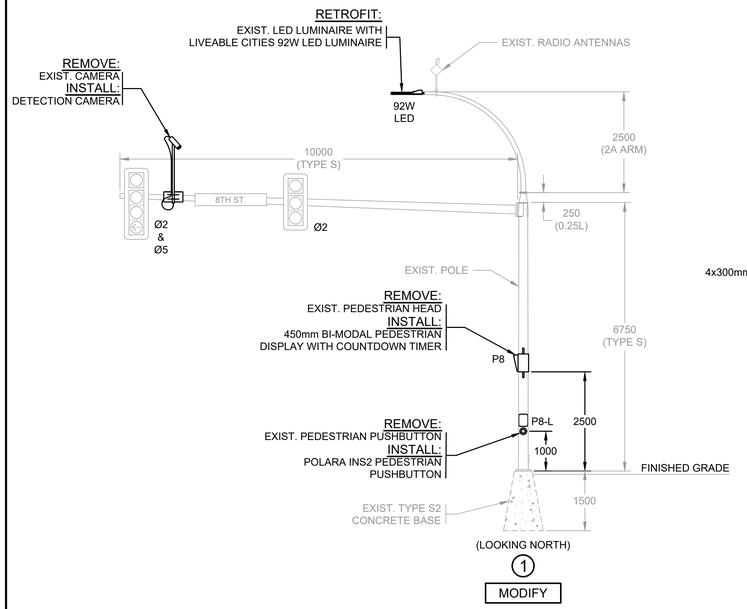
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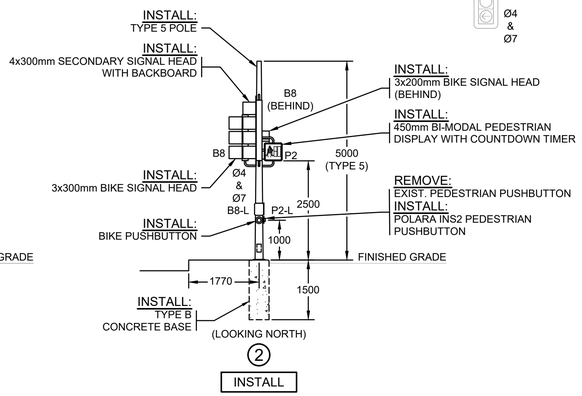
PBX ENGINEERING Ltd.
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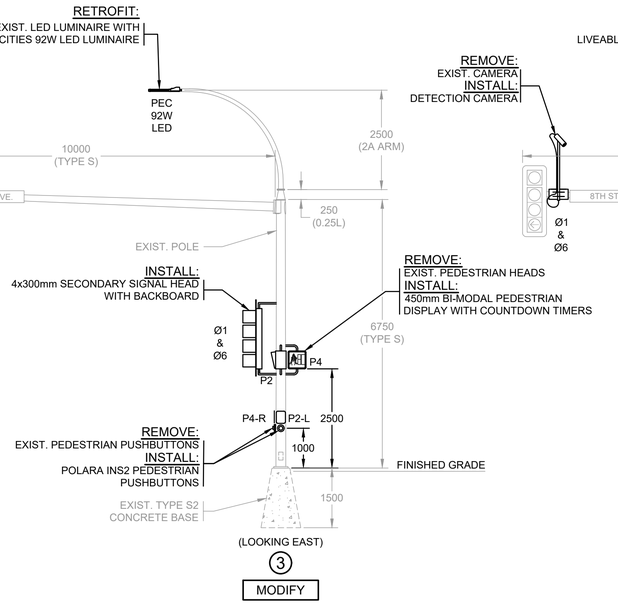
TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
SITE PLAN - 8TH ST. AND ROYAL AVE.

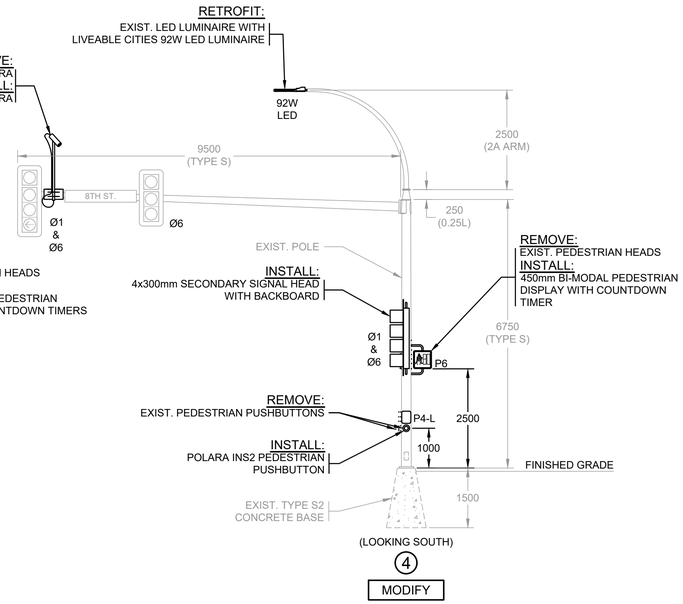
SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-19	P2

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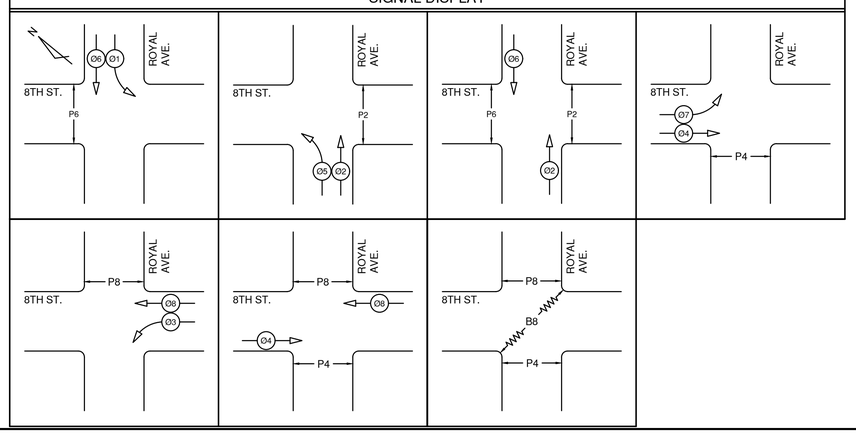


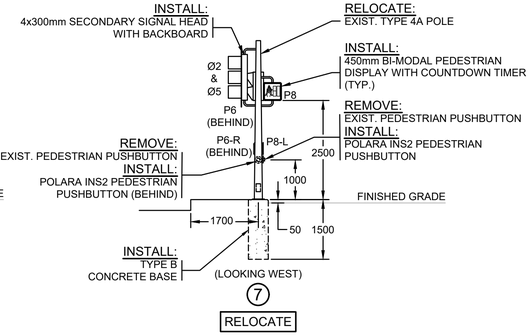




APPROVED PRODUCT LIST			
PRODUCT	MANUFACTURER	SPECIFICATION	EXCEPTIONS
POLES, ANCHOR BOLTS & SERVICE BASE	NOVA POLE INTERNATIONAL	M.M.C.D.	GALVANIZED
	WEST COAST ENGINEERING		
COMPOSITE JB	OLDCASTLE	TIER 22	SIZE AS NOTED
CONCRETE BASE	AE CONCRETE	M.M.C.D.	-
SIGNAL HEADS	DIALIGHT	LED LENS WITH 15 YEAR WARRANTY	GREEN BODY
PEDESTRIAN PUSHBUTTONS	POLARA	INS2	-
PEDESTRIAN PUSHBUTTON SIGNS	POLARA	R10-3	BLACK WITH WHITE BACKGROUND
BIKE PUSHBUTTONS	POLARA	BULLDOG	-
BIKE PUSHBUTTON SIGNS	GREENLITE TRAFFIC	GEL 240	BLACK WITH WHITE BACKGROUND
LED LUMINAIRES	LED ROADWAY LIGHTING	NXT 48M-5-S-3HB-6-GY-3-UL-X-2H	-
SIDE MOUNT BRACKETS	GREENLITE TRAFFIC	GEL 189	GREEN COLOUR
SIDE MOUNT BRACKET EXTENSION	GREENLITE TRAFFIC	GEL 194	GREEN COLOUR
COUNTDOWN PEDESTRIAN SIGNAL HEAD	DIALIGHT	450mm BI-MODAL	GREEN BODY
CABLE LABELS	PANDUIT	MP250C	ON ALL CABLES
CAMERA	ITERIS	VANTAGE NEXT CAMERA DETECTION SYSTEM	-
CONTROLLER	TACEL Q FREE	-	SUPPLIED BY THE CITY
UPS	ALPHA TECHNOLOGIES	-	SUPPLIED BY THE CITY
TRAFFIC CABINET	FORTRAN	NEMA TS2 TYPE 1 16 CHANNEL	SUPPLIED BY THE CITY

SIGNAL DISPLAY





ELEVATIONS
0 1:75 5

GENERAL NOTES:

1. ALL REDUNDANT HOLES IN POLES SHALL BE TREATED WITH GALVACON PAINT AND PLUGGED USING SUITABLE GALVANIZED PLUG OR COVER PLATE TO MATCH POLE FINISH.

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P2	26APR10	ISSUED FOR TENDER	JG	YR	AH
P1	26MAR10	ISSUED FOR 30% DESIGN	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45508

DATE: 2026-04-10

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

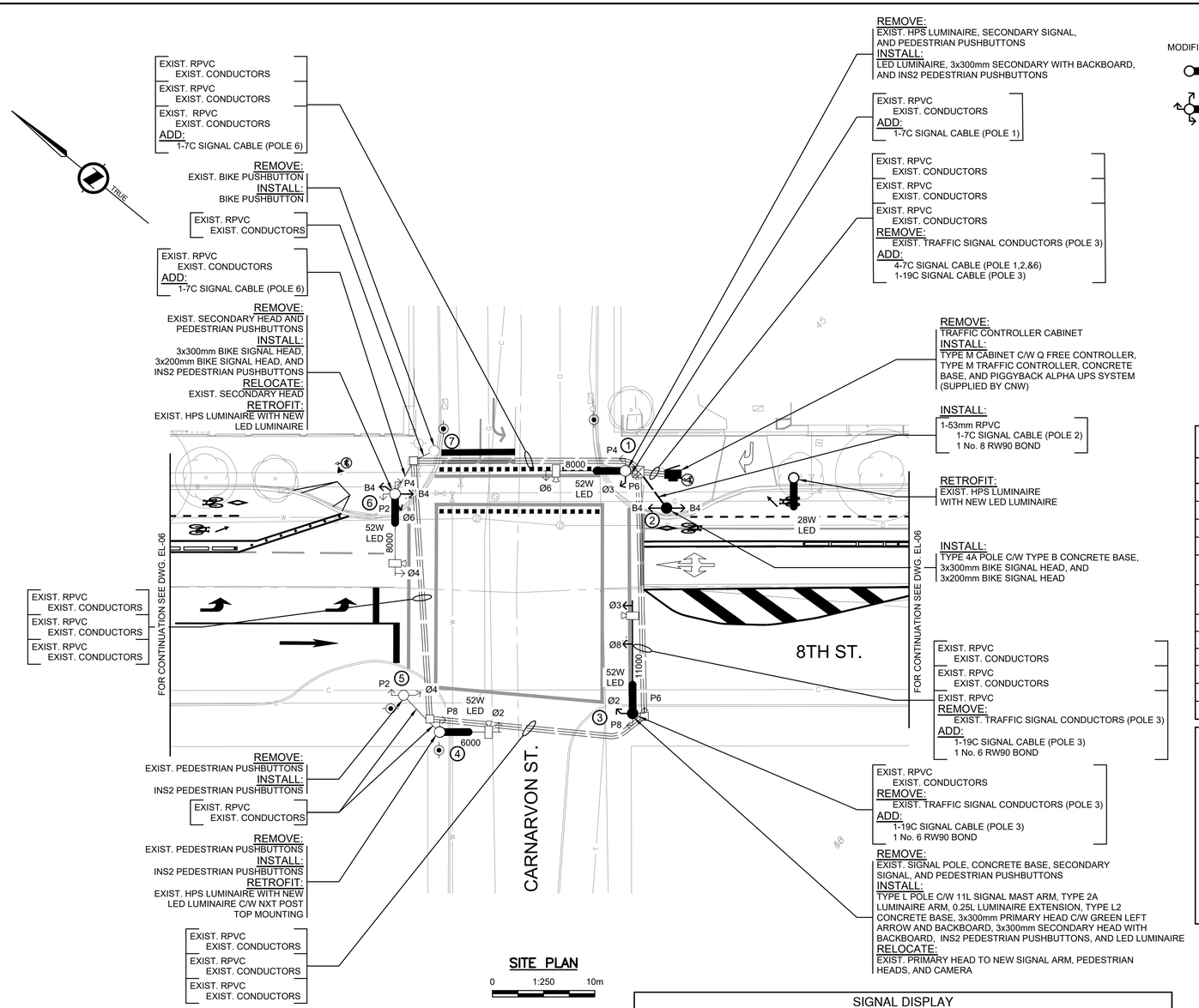
TITLE: ELEVATIONS - 8TH STREET AND ROYAL AVENUE

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-20	P2

P:\241248_CoNW 2025 ATNP Year 2\Drawings\ACAD\ EL-20 10/04/2026 1:20 PM YURI.ROCHA

GENERAL NOTES:

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW WESTMINSTER APPROVED MMCD VERSION, FOLLOWED BY NEW WESTMINSTER SUPPLEMENTARY MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.
2. THE CONTRACTOR SHALL NOT PRE-DRILL HOLES IN A SIGNAL POLE UNTIL AFTER THE BASE FOR THAT POLE HAS BEEN INSTALLED. THE CONTRACTOR SHALL ADVISE THE CONTRACT ADMINISTRATOR OF ANY ADJUSTMENTS MADE TO THE BASE LOCATION WHICH WILL EFFECT THE LOCATIONS OF HARDWARE TO BE MOUNTED ON THAT POLE PRIOR TO DRILLING.
3. THE CONTRACTOR SHALL REPLACE ALL ASPHALT REMOVED DURING CONSTRUCTION.
4. ALL CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOUR CODED.
5. ALL STREET LIGHT POLES, SIGNAL POLES, SERVICE BASES AND JUNCTION BOX LIDS SHALL BE GALVANIZED.
6. ALL STREET LIGHT POLES AND SIGNAL POLES SHALL BE POWDER COATED BLACK, RAL 9005.
7. ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND BULLETINS PUBLISHED BY TECHNICAL SAFETY BC.
8. ALL WORK SHALL CONFORM TO ALL APPLICABLE REGULATIONS OF WORKSAFE BC.
9. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS, EQUIPMENT AND LABOUR TO COMPLETE THE WORKS, EXCEPT AS NOTED.
10. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT MoTI TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES FOR PERMITS AND INSPECTIONS, AS REQUIRED BY THE BC SAFETY AUTHORITY.
12. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
13. ALL SYMBOLS ARE NOT TO SCALE.
14. ENSURE CLEARANCES FROM OVERHEAD UTILITY LINES MEET UTILITY AND WORKSAFE BC REGULATIONS PRIOR TO CONCRETE BASE INSTALLATION. CONTACT PBX ENGINEERING IN THE EVENT OF CONFLICT.
15. WHERE POSSIBLE, POLES SHALL BE POSITIONED WITH THE HANDHOLE IN THE BACK OR IF NOT POSSIBLE, ON THE DOWNSTREAM TRAFFIC SIDE.
16. LUMINAIRES WITHOUT PHOTOCELL SHALL HAVE A SHORTING CAP.
17. ALL REDUNDANT HOLES IN POLES SHALL BE TREATED WITH GALVACON PAINT AND PLUGGED USING SUITABLE GALVANIZED AND BLACK POWDER COATED PLUG OR COVER PLATE.
18. ALL CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY ON THE DRAWINGS. THE CONTRACTOR MAY OPTIMIZE THE ROUTING BASED ON FIELD CONDITIONS TO MINIMIZE TRENCHING AND AVOID CONFLICTS.
19. CONTRACTORS TO CONFIRM JUNCTION BOX LIDS ARE ELECTRICALLY BONDED.
20. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PRIOR TO ORDERING EQUIPMENT.
21. ALL SIGNAL CABLE SHALL MEET CURRENT C.S.A. STANDARDS C22.2 - No.239-97. CONTROL CABLE SIGNALS SHALL ALL BE WIRED WITH SIGNAL CABLE (STRANDED CONDUCTORS FOR ALL UNDERGROUND CABLE AND RISERS IN POLES).
22. ALL TRAFFIC SIGNAL CONDUCTORS TO BE CONNECTED IN THE POLE HANDHOLE, SPLICING OF TRAFFIC SIGNAL CONDUCTORS IN JUNCTION BOXES IS NOT PERMITTED.
23. CONDUITS, BASES, & JUNCTION BOXES SHALL BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR WHO IS REQUIRED TO OBTAIN A PERMIT FROM THE ELECTRICAL SAFETY BRANCH INSPECTOR.
24. WIRING AND SPLICING OF STREET LIGHTING CONDUCTORS TO BE PER NEW WESTMINSTER DWG SSD-R.E.13. AN 'ELASTIMOLD 65.U' FUSED CONNECTOR KIT, C/W A 10A BUSS BAN FUSE SHALL BE INSTALLED IN EACH LUMINAIRE LIVE CONDUCTOR IN THE HANDHOLE.
25. EXACT POSITION OF ALL EQUIPMENT SHALL BE CONFIRMED WITH CITY DESIGNATED ELECTRICAL ENGINEER & CIVIL ENGINEER IN THE FIELD BEFORE INSTALLATION.
26. ALL CONDUITS UNDER ROADWAY SHALL BE BURIED MIN. 900mm DEEP, ALL OTHER CONDUITS SHALL BE BURIED MIN. 600mm DEEP & EMBEDDED IN SAND 150mm ABOVE & BELOW A 'BURIED CABLE' MARKER. TAPE SHALL BE INSTALLED IN ALL TRENCHES (300mm ABOVE INSTALLED CONDUIT).
27. EMPTY CONDUITS SHALL HAVE A NYLON PULL STRING INSTALLED AND ENDS CAPPED.
28. COMMON CIRCUIT WIRING SHALL BE TAPPED TOGETHER & TAGGED AS NOTED. TRAFFIC SIGNAL COMMON TO BE KEPT SEPARATE FROM STREET LIGHTING COMMON CONDUCTOR.
29. 1.0m OF CABLE OR CONDUCTOR SLACKS IS TO BE COILED IN EACH JUNCTION BOX PER DWG SSD-R.E7.
30. RESTORATION OF EXISTING DRIVEWAYS, CURBS, STAIRS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS AND TO BE INCIDENTAL TO THE UNIT PRICES IN THE CONTRACT FOR MAINLINE AND SERVICE CONNECTIONS.
31. EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION. IN THE EVENT OF LANDSCAPING REMOVAL THE PROPERTY OWNER SHALL BE ADVISED OF THE REMOVAL AND THE LANDSCAPING PLACED IN OWNERS PROPERTY UPON THEIR REQUEST.
32. THE CONTRACTOR SHALL PROCURE ALL EQUIPMENT/MATERIAL REQUIRED TO COMPLETE THE CONSTRUCTION OF THIS SCOPE, EXCEPT CONTROLLERS, UPS, AND SIGNAL CABINETS.
33. TRAFFIC SIGNAL PROGRAMMING BY CONSULTANT. CONTRACTOR TO COORDINATE WITH THE CITY AND CONSULTANT TO BE ON SITE DURING COMMISSIONING.



SITE PLAN

0 1:250 10m

LEGEND

MODIFIED	EXISTING	PROPOSED	
			9.0m SINGLE DAVIT POLE
			COMBINATION LUMINAIRE SIGNAL POLE
			SIGNAL POST
			CNW ELECTRICAL UTILITY POLE
			TRAFFIC CONTROLLER CABINET
			UPS
			CONCRETE JUNCTION BOX
			JUNCTION BOX (# DENOTES TYPE)
			IMAGE SENSOR
			CONDUIT (AS SHOWN)
			REMOVAL (AS SHOWN)

LIGHTING DESIGN CRITERIA

PER: RP-8-25 & CNW DESIGN CRITERIA SECTION 6.4

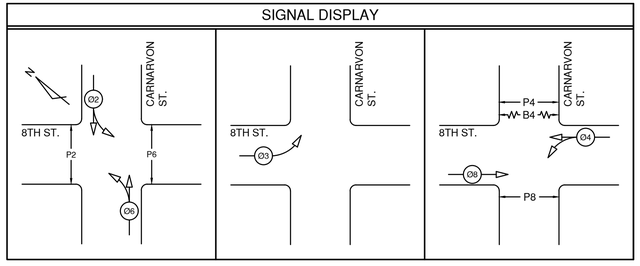
ITEM	REQUIRED VALUES	CALCULATED VALUES
STREET NAME(S)	8TH STREET & CARNARVON STREET	
LAND USE CLASSIFICATION	RESIDENTIAL	
ROADWAY CLASSIFICATION	COLLECTOR/COLLECTOR	
PEDESTRIAN ACTIVITY LEVEL	MEDIUM	
LUMINAIRE DESCRIPTION, MANUFACTURER & MODEL	NXT 24S-0-7-3HB-3-GY-3-UL-X-2H	
PHOTOMETRIC FILE NUMBER	NXT-24S-350mA-3HB-4000K.ies	
LUMINAIRE WATTAGE AND LIGHT SOURCE	52W LED	
LIGHT LOSS FACTOR	0.81	
LUMINAIRE DISTRIBUTION	TYPE III	
POLE HEIGHT (m)	7.0m & 9.5m	
ILLUMINANCE LEVEL (Eavg)	18.0 LUX	17.5 LUX
UNIFORMITY RATIO (Eavg:Emin)	4.0:1	3.0:1

SITE PLAN NOTES:

1. CONDUIT QUANTITY, SIZE, AND WIRING HAVE BEEN OMITTED FROM THIS DRAWING IN MOST INSTANCES AS THERE IS NO RECORD FROM THE EXISTING INTERSECTION.
2. THE CONTRACTOR SHALL PROVIDE THE CONSULTANT WITH INFORMATION ON THE INTERSECTION EXISTING CONDITION. INFORMATION SHALL BE PROVIDED IN A SCHEMATIC DRAWING AND SHALL INCLUDE:
   - CONDUIT ROUTING
   - CONDUIT SIZE AND TYPE
   - CONDUIT FILL (WIRING), INFORMATION SHALL CONTAIN THE WIRING QUANTITY, TYPE/GAUGE, AND FROM WHERE TO WHERE (I.E. 1-19C SIGNAL CABLE (POLE 1))
   - JUNCTION BOX TYPE

   CONTRACTOR SHALL PROVIDE ALL INFORMATION SO THE CONSULTANT CAN PRODUCE A COMPLETE RECORD DRAWING FOR THE INTERSECTION.

SIGNAL DISPLAY



ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P1	26APR10	ISSUED FOR TENDER	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45508

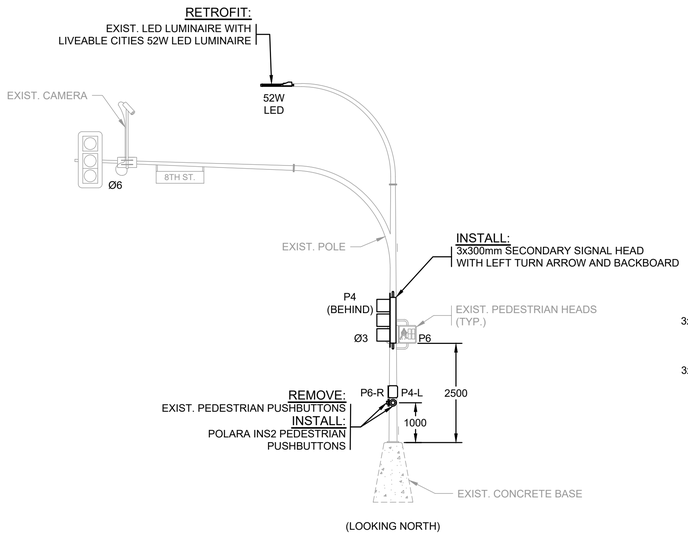
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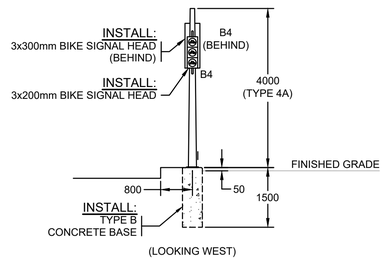
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Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

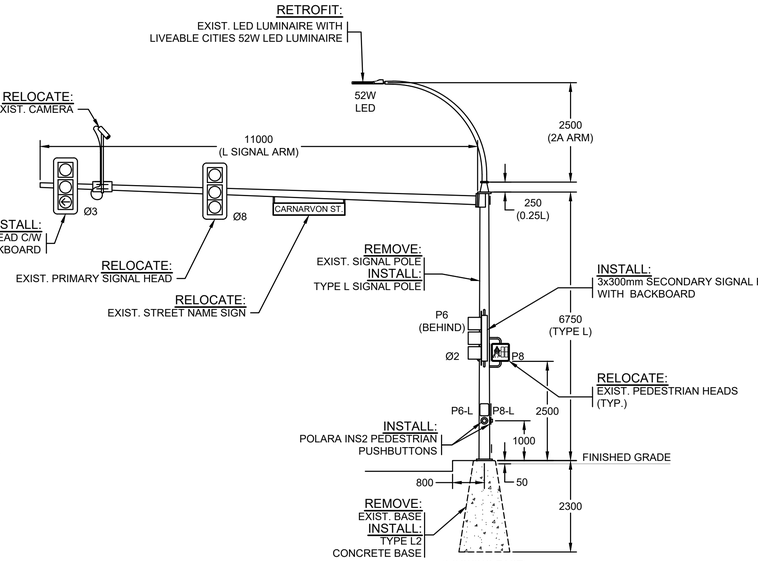
TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
SITE PLAN - 8TH ST. AND CARNARVON ST.

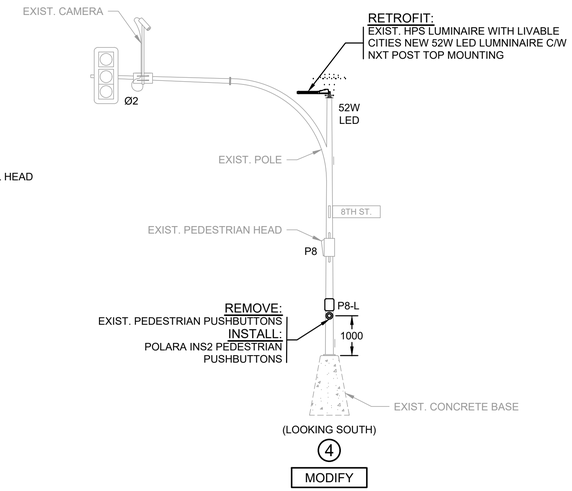
SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-21	P1

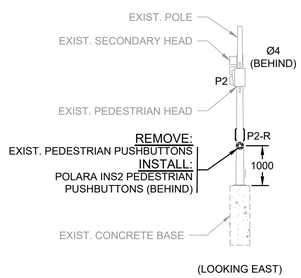
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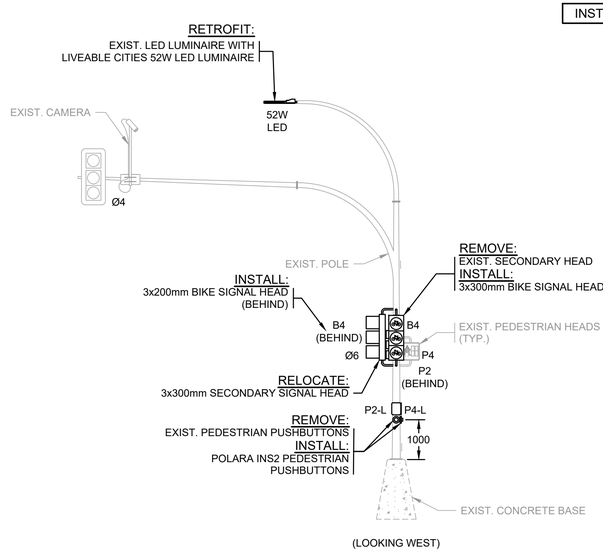


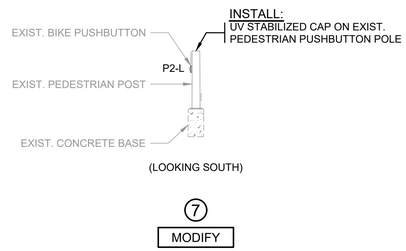












APPROVED PRODUCT LIST			
PRODUCT	MANUFACTURER	SPECIFICATION	EXCEPTIONS
POLES, ANCHOR BOLTS & SERVICE BASE	NOVA POLE INTERNATIONAL	M.M.C.D.	GALVANIZED
	WEST COAST ENGINEERING		
COMPOSITE JB	OLDCASTLE	TIER 22	SIZE AS NOTED
CONCRETE BASE	AE CONCRETE	M.M.C.D.	-
SIGNAL HEADS	DIALIGHT	LED LENS WITH 15 YEAR WARRANTY	GREEN BODY
PEDESTRIAN PUSHBUTTONS	POLARA	INS2	-
PEDESTRIAN PUSHBUTTON SIGNS	POLARA	R10-3	BLACK WITH WHITE BACKGROUND
BIKE PUSHBUTTONS	POLARA	BULLDOG	-
BIKE PUSHBUTTON SIGNS	GREENLITE TRAFFIC	GEL 240	BLACK WITH WHITE BACKGROUND
LED LUMINAIRES	LED ROADWAY LIGHTING	NXT 48M-5-S-3HB-6-GY-3-UL-X-2H	-
SIDE MOUNT BRACKETS	GREENLITE TRAFFIC	GEL 189	GREEN COLOUR
SIDE MOUNT BRACKET EXTENSION	GREENLITE TRAFFIC	GEL 194	GREEN COLOUR
COUNTDOWN PEDESTRIAN SIGNAL HEAD	DIALIGHT	450mm BI-MODAL	GREEN BODY
CABLE LABELS	PANDUIT	MP250C	ON ALL CABLES
CAMERA	ITERIS	VANTAGE NEXT CAMERA DETECTION SYSTEM	-
CONTROLLER	TACEL Q FREE	-	SUPPLIED BY THE CITY
UPS	ALPHA TECHNOLOGIES	-	SUPPLIED BY THE CITY
TRAFFIC CABINET	FORTRAN	NEMA TS2 TYPE 1 16 CHANNEL	SUPPLIED BY THE CITY

ELEVATIONS

0 1:75 5

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P1	26APR10	ISSUED FOR TENDER	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45508

DATE: 2026-04-10

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

TITLE: ELEVATIONS - 8TH STREET AND CARNARVON STREET

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-22	P1

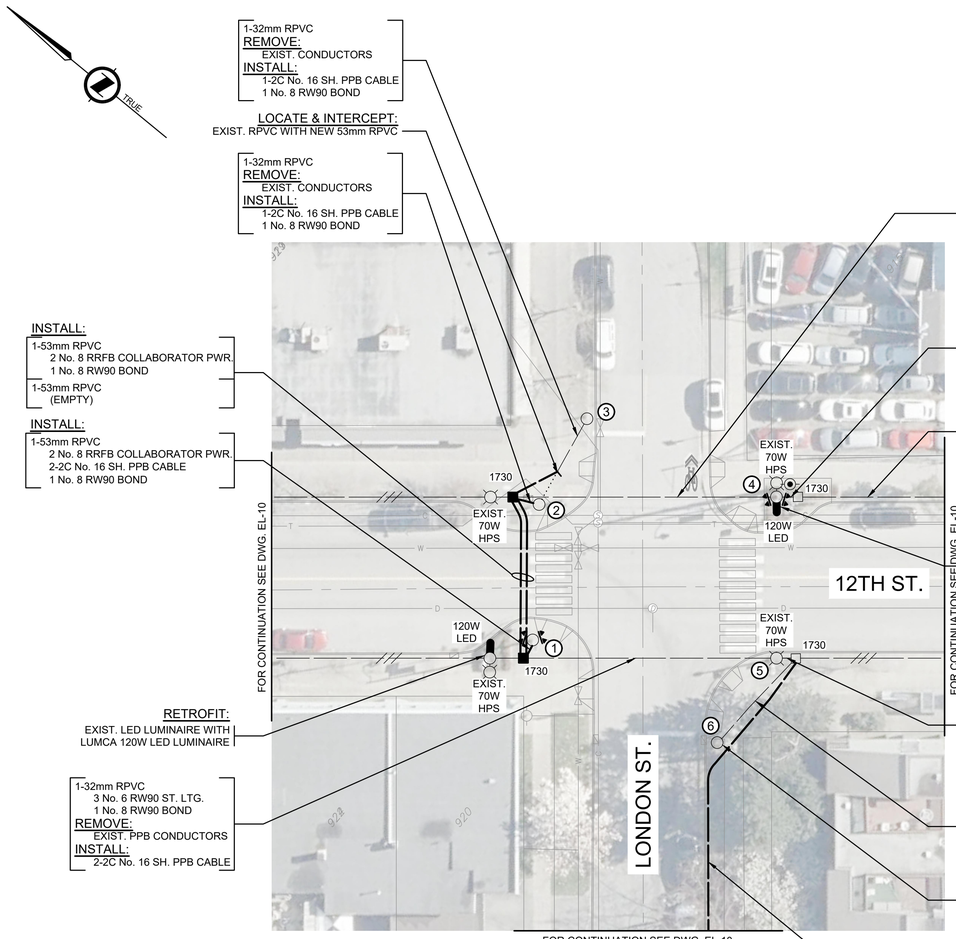
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GENERAL NOTES:

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW WESTMINSTER APPROVED MMCD VERSION, FOLLOWED BY NEW WESTMINSTER SUPPLEMENTARY MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.
2. THE CONTRACTOR SHALL NOT PRE-DRILL HOLES IN A SIGNAL POLE UNTIL AFTER THE BASE FOR THAT POLE HAS BEEN INSTALLED. THE CONTRACTOR SHALL ADVISE THE CONTRACT ADMINISTRATOR OF ANY ADJUSTMENTS MADE TO THE BASE LOCATION WHICH WILL EFFECT THE LOCATIONS OF HARDWARE TO BE MOUNTED ON THAT POLE PRIOR TO DRILLING.
3. THE CONTRACTOR SHALL REPLACE ALL ASPHALT REMOVED DURING CONSTRUCTION.
4. ALL CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOUR CODED.
5. ALL STREET LIGHT POLES, SIGNAL POLES, SERVICE BASES AND JUNCTION BOX LIDS SHALL BE GALVANIZED.
6. ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND BULLETINS PUBLISHED BY TECHNICAL SAFETY BC.
7. ALL WORK SHALL CONFORM TO ALL APPLICABLE REGULATIONS OF WORKSAFE BC.
8. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS, EQUIPMENT AND LABOUR TO COMPLETE THE WORKS, EXCEPT AS NOTED.
9. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT MoTI TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES FOR PERMITS AND INSPECTIONS, AS REQUIRED BY THE BC SAFETY AUTHORITY.
11. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
12. ALL SYMBOLS ARE NOT TO SCALE.
13. ENSURE CLEARANCES FROM OVERHEAD UTILITY LINES MEET UTILITY AND WORKSAFE BC REGULATIONS PRIOR TO CONCRETE BASE INSTALLATION. CONTACT PBX ENGINEERING IN THE EVENT OF CONFLICT.
14. WHERE POSSIBLE, POLES SHALL BE POSITIONED WITH THE HANDHOLE IN THE BACK OR IF NOT POSSIBLE, ON THE DOWNSTREAM TRAFFIC SIDE.
15. LUMINAIRES WITHOUT PHOTOCELL SHALL HAVE A SHORTING CAP.
16. ALL REDUNDANT HOLES IN POLES SHALL BE TREATED WITH GALVACON PAINT AND PLUGGED USING SUITABLE GALVANIZED AND BLACK POWDER COATED PLUG OR COVER PLATE.
17. ALL CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY ON THE DRAWINGS. THE CONTRACTOR MAY OPTIMIZE THE ROUTING BASED ON FIELD CONDITIONS TO MINIMIZE TRENCHING AND AVOID CONFLICTS.
18. CONTRACTORS TO CONFIRM JUNCTION BOX LIDS ARE ELECTRICALLY BONDED.
19. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PRIOR TO ORDERING EQUIPMENT.
20. ALL SIGNAL CABLE SHALL MEET CURRENT C.S.A. STANDARDS C22.2 - No.239-97. CONTROL CABLE SIGNALS SHALL ALL BE WIRED WITH SIGNAL CABLE (STRANDED CONDUCTORS FOR ALL UNDERGROUND CABLE AND RISERS IN POLES).
21. ALL TRAFFIC SIGNAL CONDUCTORS TO BE CONNECTED IN THE POLE HANDHOLE, SPLICING OF TRAFFIC SIGNAL CONDUCTORS IN JUNCTION BOXES IS NOT PERMITTED.
22. CONDUITS, BASES, & JUNCTION BOXES SHALL BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR WHO IS REQUIRED TO OBTAIN A PERMIT FROM THE ELECTRICAL SAFETY BRANCH INSPECTOR.
23. WIRING AND SPLICING OF STREET LIGHTING CONDUCTORS TO BE PER NEW WESTMINSTER DWG SSD-R.E.13. AN 'ELASTIMOLD 65.U' FUSED CONNECTOR KIT, C/W A 10A BUSS BAN FUSE SHALL BE INSTALLED IN EACH LUMINAIRE LIVE CONDUCTOR IN THE HANDHOLE.
24. EXACT POSITION OF ALL EQUIPMENT SHALL BE CONFIRMED WITH CITY DESIGNATED ELECTRICAL ENGINEER & CIVIL ENGINEER IN THE FIELD BEFORE INSTALLATION.
25. ALL CONDUITS UNDER ROADWAY SHALL BE BURIED MIN. 900mm DEEP, ALL OTHER CONDUITS SHALL BE BURIED MIN. 600mm DEEP & EMBEDDED IN SAND 150mm ABOVE & BELOW A 'BURIED CABLE' MARKER. TAPE SHALL BE INSTALLED IN ALL TRENCHES (300mm ABOVE INSTALLED CONDUIT).
26. EMPTY CONDUITS SHALL HAVE A NYLON PULL STRING INSTALLED AND ENDS CAPPED.
27. COMMON CIRCUIT WIRING SHALL BE TAPPED TOGETHER & TAGGED AS NOTED. TRAFFIC SIGNAL COMMON TO BE KEPT SEPARATE FROM STREET LIGHTING COMMON CONDUCTOR.
28. 1.0m OF CABLE OR CONDUCTOR SLACKS IS TO BE COILED IN EACH JUNCTION BOX PER DWG SSD-R.E7.
29. RESTORATION OF EXISTING DRIVEWAYS, CURBS, STAIRS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS AND TO BE INCIDENTAL TO THE UNIT PRICES IN THE CONTRACT FOR MAINLINE AND SERVICE CONNECTIONS.
30. EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION. IN THE EVENT OF LANDSCAPING REMOVAL THE PROPERTY OWNER SHALL BE ADVISED OF THE REMOVAL AND THE LANDSCAPING PLACED IN OWNERS PROPERTY UPON THEIR REQUEST.

LEGEND

MODIFIED	EXISTING	PROPOSED	
			6.0m PEDESTRIAN POLE
			4.0m RRFB POLE
			1.4m PUSHBUTTON POST
			POST TOP STREET LIGHT POLE
			JUNCTION BOX (# DENOTES TYPE)
			CONDUIT (AS SHOWN)
			REMOVAL (AS SHOWN)



SITE PLAN

0 1:250 10m

LIGHTING DESIGN CRITERIA

PER: RP-8-25 & CNW DESIGN CRITERIA SECTION 6.4

ITEM	REQUIRED VALUES	CALCULATED VALUES
STREET NAME(S)	LONDON STREET & 12TH STREET	
LAND USE CLASSIFICATION	RESIDENTIAL	
ROADWAY CLASSIFICATION	COLLECTOR/LOCAL	
PEDESTRIAN ACTIVITY LEVEL	LOW	
LUMINAIRE DESCRIPTION, MANUFACTURER & MODEL	CPF0632-54LED05-90W-120-L3-40K-C70-TRP7 -SGP-10-BKTXT	
PHOTOMETRIC FILE NUMBER	CP06XX-54LED05 90W-40K-L3-120-m.ies	
LUMINAIRE WATTAGE AND LIGHT SOURCE	60W LED	
LIGHT LOSS FACTOR	0.81	
LUMINAIRE DISTRIBUTION	TYPE III	
POLE HEIGHT (m)	7.5m	
ILLUMINANCE LEVEL (Eavg)	10.0 LUX	12.8 LUX
UNIFORMITY RATIO (Eavg:Emin)	4.0:1	4.0:1

RRFB DEVICE SETTINGS

FLASH MODE: RRFB

FLASH DURATION: 18 SEC

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ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P2	26APR10	ISSUED FOR TENDER	JG	YR	AH
P1	26MAR10	ISSUED FOR 30% DESIGN	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA A. K. HUNTER # 45508 ENGINEER 2026-04-10

DATE:

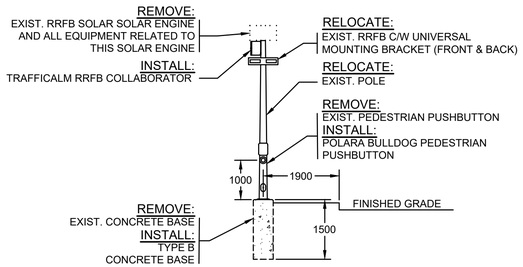
PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
SITE PLAN - LONDON ST. AND 12TH ST.

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV
AS NOTED	241248	EL-23	P2

P:\241248_CoNW 2025 ATNP Year 2\Drawings\ACAD\EL-23_10/04/2026 1:43 PM KHUBJROCHA

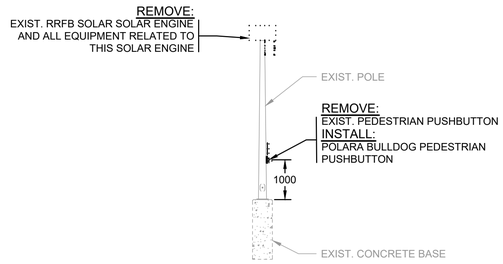
PBX ENGINEERING LTD.
PERMIT TO PRACTICE NUMBER:
1000208



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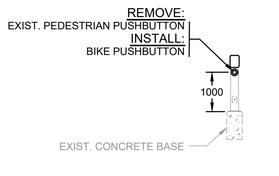
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(LOOKING NORTH)

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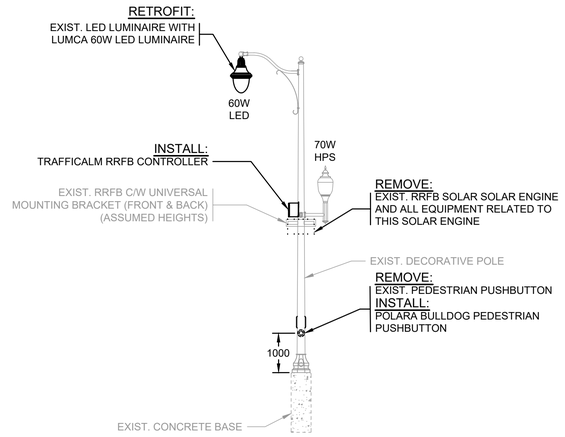
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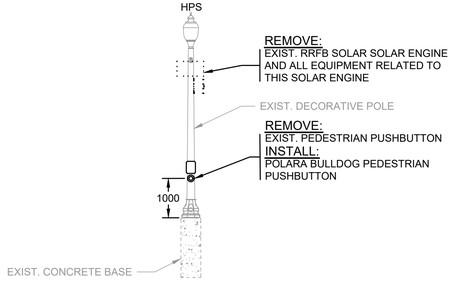
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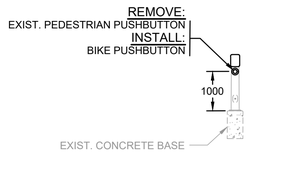
MODIFY



(LOOKING EAST)

5

MODIFY



(LOOKING EAST)

6

MODIFY

ELEVATIONS

0 1:75 5

APPROVED PRODUCT LIST			
PRODUCT	MANUFACTURER	SPECIFICATION	EXCEPTIONS
POLES, ANCHOR BOLTS & SERVICE BASE	NOVA POLE INTERNATIONAL	M.M.C.D.	GALVANIZED AND POWDER COATED BLACK
	WEST COAST ENGINEERING		
COMPOSITE JB	OLDCASTLE	TIER 22	SIZE AS NOTED
CONCRETE BASE	AE CONCRETE	M.M.C.D.	-
100A MMCD SERVICE BASE	VALID MANUFACTURING	BSD1S24CQS	STAINLESS STEEL
PEDESTRIAN PUSHBUTTONS	POLARA	BULLDOG	-
PEDESTRIAN PUSHBUTTON SIGNS	POLARA	R10-3	BLACK WITH WHITE BACKGROUND
BIKE PUSHBUTTONS	POLARA	BULLDOG	-
BIKE PUSHBUTTON SIGNS	GREENLITE TRAFFIC	GEL 240	BLACK WITH WHITE BACKGROUND
LED DECORATIVE PENDANT FIXTURE	LUMCA	CPF0632-54LED05-90W-120-L3-40K-C70-TRP7 -SGP-10-BKTXT	BLACK COLOUR
CABLE LABELS	PANDUIT	MP250C	ON ALL CABLES
RRFB	TRAFFICALM	M75-SA328-7500	-

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ISSUED FOR TENDER NOT FOR CONSTRUCTION

Rev.	DATE	ISSUE / REVISION DESCRIPTION	DESN	QC	QA
P2	26APR10	ISSUED FOR TENDER	JG	YR	AH
P1	26MAR10	ISSUED FOR 30% DESIGN	JG	YR	AH

CLIENT: NEW WESTMINSTER

PROJECT: CITY OF NEW WESTMINSTER ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2

EGBC PERMIT #: **1000208**

PROFESSIONAL SEAL: PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, A. K. HUNTER, # 45508

DATE: 2026-04-10

PBX ENGINEERING Ltd.
Suite 900 - 815 W. Hastings St.
Vancouver BC, V6C 1B4
Tel 604.408.7222
www.pbxeng.com

TITLE: ACTIVE TRANSPORTATION NETWORK PLAN - YEAR 2
ELEVATIONS - LONDON ST. AND 12TH ST.

SCALE	PROJECT NUMBER	DRAWING NUMBER	REV.
AS NOTED	241248	EL-24	P2

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