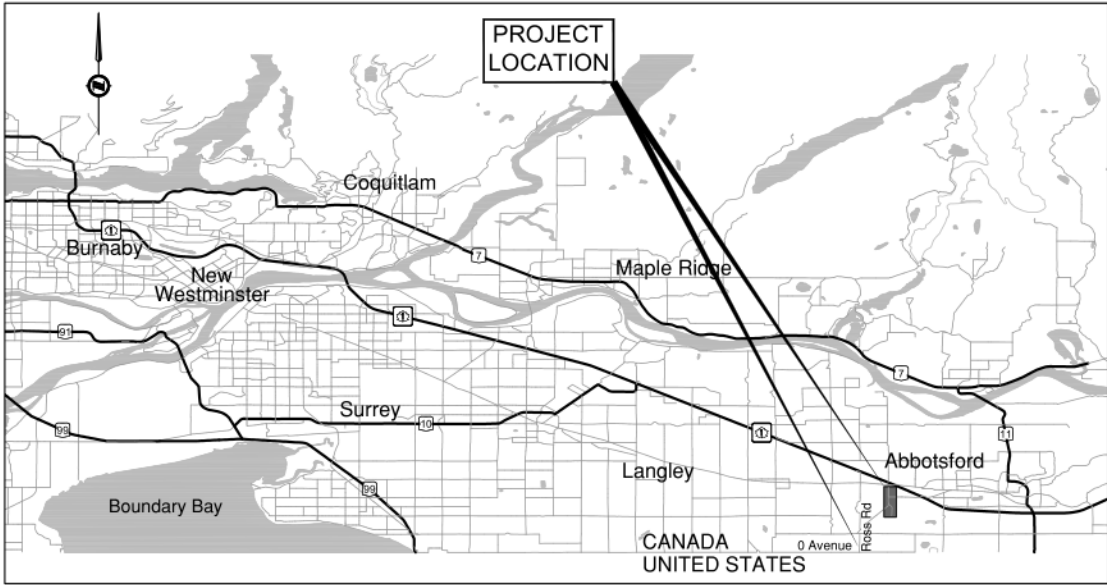




LOCATION MAP
N.T.S.



Ministry of
Transportation
and Infrastructure

PROJECT No. 12695-0001

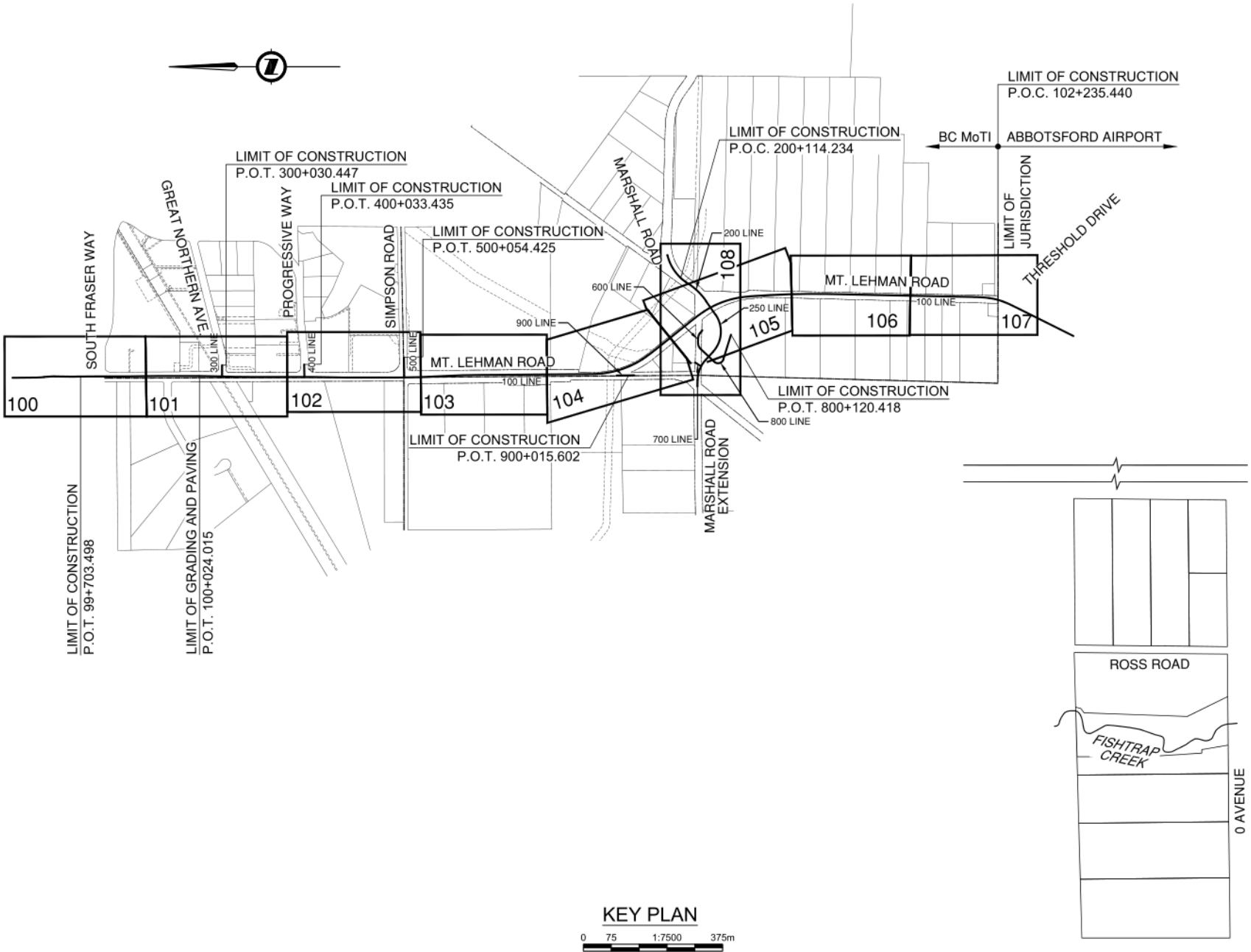
MT. LEHMAN ROAD 4 LANING NORTH OF SIMPSON ROAD TO AIRPORT (YXX)

STA. P.O.T. 99+703.498 - STA. P.O.T. 102+235.440
2.531 km

GRADING AND PAVING CONTRACT

DRAWING INDEX

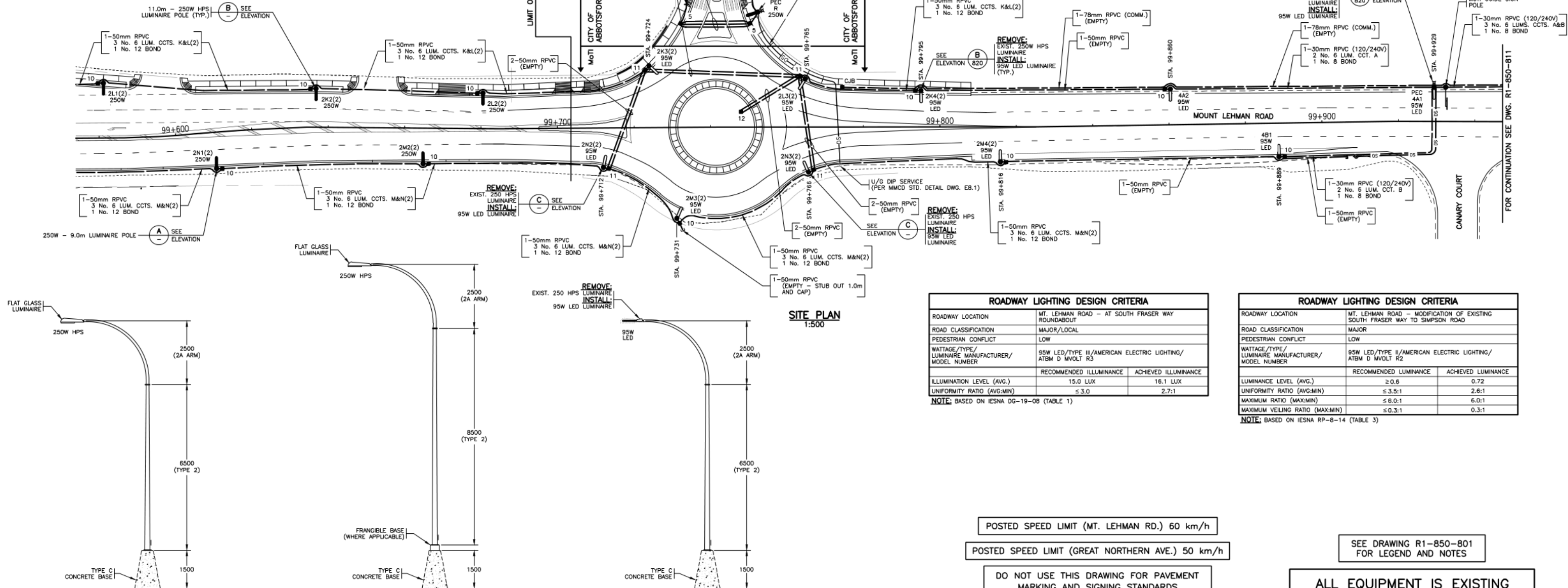
R1-850-001	LOCATION MAP / KEY PLAN / DRAWING INDEX
R1-850-002	LEGEND
R1-850-100 to 108	PLANS
R1-850-201 to 205	PROFILES
R1-850-301 to 307	TYPICAL SECTIONS
R1-850-351	MISCELLANEOUS DETAILS - ROADWORKS
R1-850-401 to 408	GEOMETRICS AND LANING
R1-850-451	CURVE TABLES
R1-850-501 to 503	SPOT ELEVATIONS
R1-850-601 to 608	SIGNING AND PAVEMENT MARKINGS
R1-850-701 to 708	DRAINAGE AND UTILITIES
R1-850-721 to 726	STORM SEWERS PROFILES
R1-850-731 to 734	CATCHBASIN TABLES / MANHOLE TABLES
R1-850-751 to 753	MISCELLANEOUS DETAILS - DRAINAGE
R1-850-771 to 773	CULVERTS
R1-850-781 to 788	WATERMAIN PROFILES
R1-850-800 to 804	ELECTRICAL
R1-850-810 to 817	ELECTRICAL
R1-850-820 to 821	ELECTRICAL
R1-850-825	ELECTRICAL
R1-850-830 to 832	ELECTRICAL
R1-850-840 to 842	ELECTRICAL
R1-850-901 to 907	RETAINING WALLS
R1-850-1101 to 1106	PLANTING PLANS, TABLES AND DETAILS



		MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE		
SOUTH COAST REGION		HIGHWAY ENGINEERING AND GEOMATICS		
LOCATION MAP / KEY PLAN / DRAWING INDEX				
MT. LEHMAN ROAD 4 LANING NORTH OF SIMPSON ROAD TO AIRPORT (YXX)				
REGIONAL MANAGER, ENGINEERING		REGIONAL DIRECTOR		
DATE	2018-05-10	DATE	2018-05-10	
FILE NUMBER	12695-0001	REG	1	DRAWING NUMBER R1-850-001

LIGHTING DESIGN CRITERIA	
ROADWAY NAME	MT. LEHMAN ROAD - EXISTING NORTH OF SOUTH FRASER WAY
CLASSIFICATION	TAC URBAN ARTERIAL DIVIDED
IES	MAJOR
PEDESTRIAN CONFLICT	HIGH
TARGET ILLUMINANCE	17.0 LUX
ILLUMINANCE DELIVERED	18.74 LUX
TARGET UNIFORMITY	3:1
UNIFORMITY DELIVERED	1.67:1
ILLUMINATION TYPE	250W HPS AT 11.0m

NOTE:
BASED ON IESNA RP-8-00 (TABLE 2)



SITE PLAN
1:500

ROADWAY LIGHTING DESIGN CRITERIA		
ROADWAY LOCATION	MT. LEHMAN ROAD - AT SOUTH FRASER WAY	
ROAD CLASSIFICATION	MAJOR/LOCAL	
PEDESTRIAN CONFLICT	LOW	
WATTAGE/TYPE/LUMINAIRE MANUFACTURER/MODEL NUMBER	95W LED/TYP II/AMERICAN ELECTRIC LIGHTING/ATBM D MVOLT R3	
ILLUMINATION LEVEL (AVG.)	RECOMMENDED ILLUMINANCE	ACHIEVED ILLUMINANCE
UNIFORMITY RATIO (AVG:MIN)	15.0 LUX	16.1 LUX
	≤ 3.0	2.7:1

NOTE: BASED ON IESNA DG-19-08 (TABLE 1)

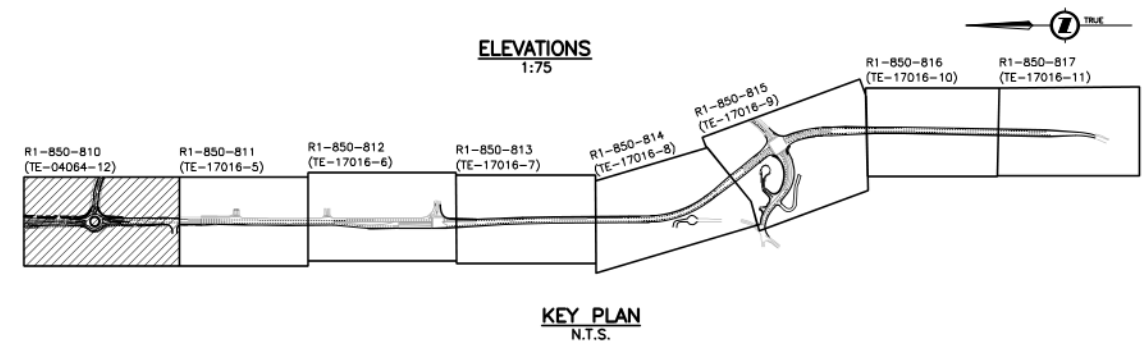
ROADWAY LIGHTING DESIGN CRITERIA		
ROADWAY LOCATION	MT. LEHMAN ROAD - MODIFICATION OF EXISTING SOUTH FRASER WAY TO SIMPSON ROAD	
ROAD CLASSIFICATION	MAJOR	
PEDESTRIAN CONFLICT	LOW	
WATTAGE/TYPE/LUMINAIRE MANUFACTURER/MODEL NUMBER	95W LED/TYP II/AMERICAN ELECTRIC LIGHTING/ATBM D MVOLT R2	
ILLUMINATION LEVEL (AVG.)	RECOMMENDED LUMINANCE	ACHIEVED LUMINANCE
UNIFORMITY RATIO (AVG:MIN)	≥ 0.8	0.72
MAXIMUM RATIO (MAX:MIN)	≤ 3.5:1	2.6:1
MAXIMUM VEILING RATIO (MAX:MIN)	≤ 6.0:1	6.0:1
	≤ 0.3:1	0.3:1

NOTE: BASED ON IESNA RP-8-14 (TABLE 3)

ELEVATION A 250W - 9.0m LUMINAIRE POLE
1:75

ELEVATION B 250W - 11.0m LUMINAIRE POLE
1:75

ELEVATION C 95W - 9.0m LUMINAIRE POLE
1:75



KEY PLAN
N.T.S.

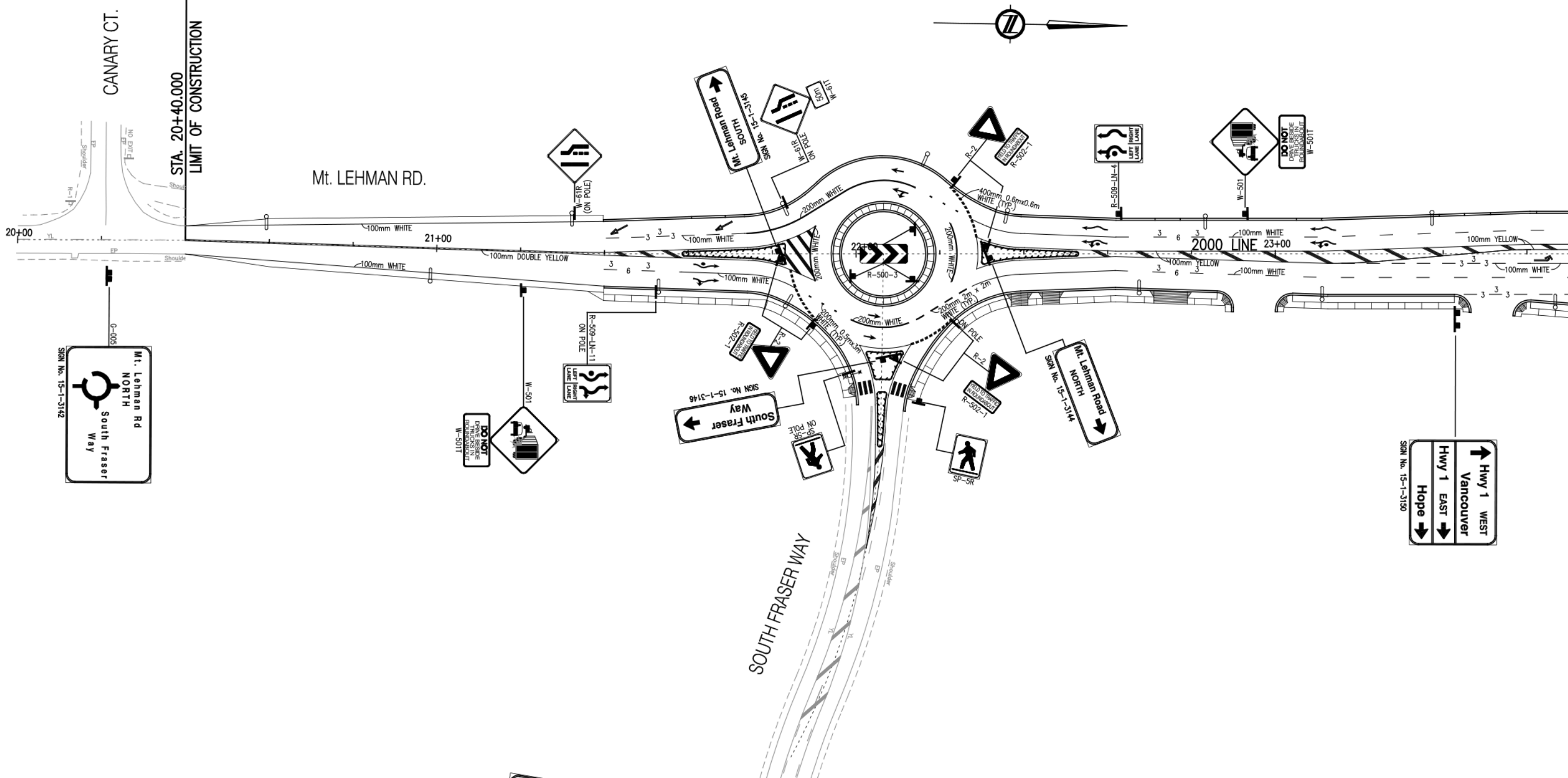
CHECK BEFORE YOU DIG
CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL UNDERGROUND UTILITIES.

POSTED SPEED LIMIT (MT. LEHMAN RD.) 60 km/h
POSTED SPEED LIMIT (GREAT NORTHERN AVE.) 50 km/h
DO NOT USE THIS DRAWING FOR PAVEMENT MARKING AND SIGNING STANDARDS
SEE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" FOR APPLICABLE STANDARD DRAWINGS

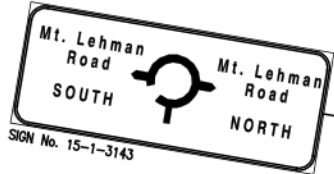
SEE DRAWING R1-850-801 FOR LEGEND AND NOTES
ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

TE-04064-12

PBX ENGINEERING PBX ENGINEERING Ltd. Suite 300 - 131 Water St. Vancouver BC, V6B 4M3 Tel 604.408.7222 www.pbxeng.com		BRITISH COLUMBIA MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE ELECTRICAL ENGINEERING CENTRE	
CAD FILENAME: R1-850-810.dwg			
REV	DATE	REVISIONS	DRAWN
-	JUL/07	RECORD DRAWING	PBA
A	MAY/18	ISSUED FOR MT. LEHMAN ROAD 4 LANE	PBX
DESIGNED: RV DATE: MAY/18 QUALITY CONTROL: JC DATE: MAY/18 ELECTRICAL ENGINEER OF RECORD (FOR CURRENT REVISION): JULIAN VASQUEZ, P. ENG. DATE: MAY/18 TRAN ELECTRICAL DESIGN REVIEW: DATE:			
SHEET NUMBER: 6 OF 22		SITE CODE: HWY DIST: 1 REG: 1 DRAWING NUMBER: R1-850-810	



MOT SIGNS ASSOCIATED WITH THIS DRAWING		
SIGN TYPE	DESCRIPTION	No. REQ'D
G-5	NEW GUIDE SIGN	6
R-2	YIELD	6
R-502-1	YIELD TO TRAFFIC IN ROUNDABOUT	6
R-500-3	ROUNDABOUT DIRECTIONAL SIGN	3
R-509-LN-4	ROUNDABOUT LANE USE	1
R-509-LN-11	ROUNDABOUT LANE USE	1
SP-SR	PEDESTRIAN CROSSWALK	2
W-61R	LANE ENDS	2
W-61T	LANE ENDS TAB (50m)	1
W-501	DO NOT DRIVE BESIDE TRUCKS IN ROUNDABOUT	2
W-501T	DO NOT DRIVE BESIDE TRUCKS IN ROUNDABOUT TAB	2
TOTAL SIGNS THIS SHEET (DWG. 610)		32



LOCATION PLAN

REFERENCE DRAWINGS	
GEOMETRICS AND LANING	R1-02072-210

THIS DRAWING AND DESIGN SHALL NOT BE USED, REUSED OR REPRODUCED WITHOUT THE CONSENT OF McELHANNY CONSULTING SERVICES LTD. McELHANNY CONSULTING SERVICES LTD. WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.

Rev	Date	Description	Initial	SCALE	DESIGNED	CHECKED	DRAWN	DATE	DATE	DATE
J				0 1 : 500 25m	RP	DATE	DATE	MAY 04		
I						DP/PSN	DATE	MAY 04		
H						HS	DATE	MAY 04		
G					Gary Tencha, P. Eng.					
F					Quality Assurance Manager	McElhanny				
E										
D										
C										
B										
A	JUN 12/06	MT. LEHMAN ROUNDABOUT SIGNS REVISED.	H.S.							
REVISIONS				Date	ISSUE RECORD		Initial			

NOTE:
FOR SIGN DETAILS, REFERENCE SIGN RECORDS IN THE SUPPLEMENTARY CONTRACT SPECIFICATIONS.

City of Abbotsford

**MINISTRY OF TRANSPORTATION
SOUTH COAST REGION**

SIGNS & PAVEMENT MARKINGS

**MT. LEHMAN INTERCHANGE
IMPROVEMENT PROJECT**

FILE No. **2111-02072-0**

DATE **5/01/05**

REVISION **1**

TRA-2003-32973

R1-02072-610

CANCEL PRINTED BEFORE LATER EDITION

T-263