



APPROXIMATELY 22m TO
100A-120/240V
SERVICE PANEL

1-1 1/4" RC
3 No. 4 TW75 LUM.
1 No.12 TW75 BOND

LLOYD AVENUE

1-1 1/4" RPVC
3 No. 8 RW90 LUM.
1 No.12 RW90 BOND

1-2" R.PVC
3 No. 8 RW90 LUM.
1 No.12 RW90 BOND

SITE PLAN
1:500

Westview Dr
Lonsdale Ave
Lynn Valley Rd
1.7
3.7
6100 x 2140
SIGN No. 11-1-800

ROUTE 1 (UPPER LEVELS HIGHWAY)

104+00

MATCH LINE - SEE SHEET 2

C.M.B. (TYPICAL)
LANE EDGE (TYPICAL)
C.R.B. (TYPICAL)
ASPHALT SIDEWALK (TYPICAL)
GRAVEL SHOULDER (TYPICAL)

NOTES

- ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 1995 MINISTRY STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION OR DISTRICT OR CITY OF NORTH VANCOUVER STANDARDS WHERE NOTED.
- WHERE APPLICABLE ALL MATERIALS SHALL CONFORM TO THOSE LISTED IN THE CURRENT MINISTRY PRE-APPROVED PRODUCT LIST. ALTERNATIVE MATERIALS MUST BE MINISTRY PRE-APPROVED.
- JUNCTION BOXES SHALL BE POSITIONED BEHIND OR, AS AN ALTERNATIVE, TO THE SIDE, BUT NOT IN FRONT OF POLES.
- EACH SHIELDED CABLE SHALL RUN CONTINUOUS WITH NO SPLICES, FROM THE CONTROLLER TO THE RESPECTIVE LOOP OR CONTROLLER.
- LUMINAIRE NUMBERING EXAMPLE: 1A
SERVICE No. - 1 CCT. LETTER - A
- WHERE POSSIBLE, POLES SHALL BE POSITIONED WITH THE HANDHOLE IN THE BACK OR IF NOT POSSIBLE, ON THE DOWNSTREAM TRAFFIC SIDE.
- ALL CONCRETE BASES AND JUNCTION BOX SYMBOLS ARE NOT TO SCALE.
- ALL JUNCTION BOXES SHALL HAVE STEEL LIDS.
- ALL ELECTRICAL CONDUITS WITH CONDUCTORS OR CABLES SHALL HAVE A BOND WIRE. BOND WIRE SIZES SHALL BE AS FOLLOWS:
a) CITY & DISTRICT OF NORTH VANCOUVER BOND WIRE SHALL BE No.8 RW90.
b) MINISTRY BOND WIRE SHALL BE No.12 RW90.
- LUMINAIRE WIRING FROM J.B. TO POLE SHALL BE 2 No.10 RW90 AND 1 No.12 RW90 BOND IN 2" RPVC (TYPICAL FOR MINISTRY SYSTEMS)
- 'A' - DENOTES GLARE SHIELD ON LUMINAIRE
- ALL SIGNAL HEAD SECTIONS SHALL BE WIRED SEPARATELY FROM THE HANDHOLE OF THE POLE TO EACH HEAD INCLUDING A SEPARATE NEUTRAL AND BONDING CONDUCTOR FOR EACH HEAD.
- 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 SHAFLIK ENGINEERING OF ANY ADJUSTMENTS MADE TO THE BASE LOCATION WHICH WILL EFFECT THE LOCATIONS OF HARDWARE TO BE MOUNTED ON THAT POLE PRIOR TO DRILLING.
- WHERE 3 OR MORE SECONDARY/PEDESTRIAN HEADS ARE BEING MOUNTED ON THE POLE SHAFT, ORIENT THE PEDESTRIAN HEAD MOUNTING BRACKETS WITH THE WIREWAY ON TOP.
- SHIELDED CABLE SHALL BE 1 PAIR BELDEN No. 9318 FOR DETECTOR LOOPS AND B.C. TEL. AND 3 PAIR BELDEN No. 9773 FOR SIGNAL INTERCONNECT (ALTERNATE PRODUCTS MUST BE MINISTRY PRE-QUALIFIED).
- 4" COMMUNICATIONS CONDUITS SHALL RUN AS STRAIGHT AS POSSIBLE FROM JUNCTION BOX TO JUNCTION BOX. WHERE BENDS ARE REQUIRED THEY SHALL HAVE A MINIMUM 10m RADIUS.
- WHERE APPLICABLE MATERIALS SHALL BE MINISTRY PRE-APPROVED.
- OPTICALLY PROGRAMMABLE SIGNAL HEADS SHALL BE MCCAIN (NOVAX) TYPE WITH YELLOW BACKBOARD AND PLUMBIBZ MOUNT. WHERE REQUIRED THEY SHALL BE SUPPLIED WITH AN ADAPTOR TO CONNECT STANDARD SIGNAL HEADS.
- COMMUNICATIONS VAULTS SHALL BE KON KAST No.832 VAULT WITH GALVANIZED STEEL LIDS.
- 4" COMMUNICATIONS CONDUITS SHALL BE OPTICOM OMNI MULTI DUCT SYSTEM. (4") ORANGE SCHEDULE 40 IN 8m LENGTHS WITH 4 SMOOTH PVC INNERDUCTS. TERMINATE CONDUITS IN VAULTS AND AT THE BEGINNING AND END OF CONSTRUCTION WITH TYPE 2 TERMINATION KITS INCLUDING 4 PLUGS, CAP AND COLLAR FOR ENTRANCE INTO MANHOLES. TERMINATE MULTI-DUCTS IN VAULTS WITH "F" FITTINGS.
- ALL CONCRETE VAULTS SHALL BE INSTALLED ON A 300mm BASE OF 20mm CLEAR DRAIN ROCK. CONTRACTOR SHALL OBTAIN VAULT INSTALLATION AND CONDUIT ORIENTATION AND LOCATION DETAILS FROM SHAFLIK ENGINEERING PRIOR TO CONSTRUCTION.

FOR DETAILS OF CONDUITS, JUNCTION BOXES,
POLE BASES, ETC, CAST IN CONCRETE STRUCTURES
REFER TO PBK STRUCTURE DRAWINGS FOR DETAILS

POSTED SPEED 80 km/h

DO NOT USE THIS DRAWING FOR
PAVEMENT MARKING STANDARDS

REFER TO SHEET 17 FOR
SIGN POLE ELEVATIONS

97-12-12



LEGEND

	PROPOSED CONCRETE BASE WITH FUTURE LUMINAIRE POLE		EXISTING CONCRETE BASE WITH PROPOSED LUMINAIRE POLE		PEC		PHOTO ELECTRIC CELL
	CONCRETE BASE AND JUNCTION BOX		CITY OR DISTRICT OF NORTH VANCOUVER LUMINAIRE POLE		RPVC		RIGID P.V.C. CONDUIT
	JUNCTION BOX - No. DENOTES TYPE		COMBINATION LUMINAIRE/DAVIT MOUNTED ILLUMINATED SIGN WITH AMBER FLASHERS		R.M.C.		RIGID METALLIC CONDUIT
	LUMINAIRE POLE (SINGLE)		COMBINATION LUMINAIRE/DAVIT MOUNTED ILLUMINATED SIGN WITH AMBER FLASHERS		F.M.C.		FLEXIBLE METALLIC CONDUIT (LIQUID TIGHT)
	DOUBLE LUMINAIRE POLE		DAVIT MOUNTED SIGN (NON-ILLUMINATED)		OVERHEAD FLASHING BEACON		POST MOUNTED FLASHER
	POST TOP MOUNTED LUMINAIRE		DAVIT MOUNTED ILLUMINATED SIGN POLE		BACKGUY		POWER POLE
	TRAFFIC SIGNAL POLE WITH DAVIT AND SIDE OF POLE MOUNTED HEADS		COMBINATION LUMINAIRE/DAVIT MOUNTED NON-ILLUMINATED SIGN POLE		TELEPHONE POLE		POWER/TELEPHONE POLE
	COMBINATION LUMINAIRE/DAVIT MOUNTED TRAFFIC SIGNAL POLE		BREAKAWAY SIGN (NON-ILLUMINATED)		ILLUMINATED BREAKAWAY SIGN		
	POST TOP MOUNTED SIGNAL						

	TEST SWITCH		RAISED CURB
	BREAKER		PROPERTY LINE
	NEUTRAL BAR		EDGE OF GRAVEL SHOULDER
	VEHICLE DETECTOR LOOP		EDGE OF PAVEMENT
	SIGNAL HEAD VEHICLE PHASE		PAINT LINE
	SIGNAL HEAD PEDESTRIAN PHASE		PROPOSED UNDERGROUND CONDUIT
	PEDESTRIAN PUSHBUTTON		EXISTING UNDERGROUND CONDUIT
	U/G UTILITY		FENCE
	"G" DENOTES GAS		CORRUGATED METAL PIPE (CULVERT)
	"S" DENOTES STORM DRAINS/SEWERS		RETAINING WALL
	"W" DENOTES WATER		SOUND WALL
	"E" DENOTES ELECTRIC		CONCRETE ROADSIDE OR MEDIAN BARRIER
	"T" DENOTES TELEPHONE		
	"SAN" DENOTES SANITARY SEWER		

WALTER & SCI Construction
(Canada) Ltd.

SHAFLIK ENGINEERING LTD.
ELECTRICAL CONSULTANTS

202-8525 BAXTER PLACE, BURNABY, BC V5A 4V7 TEL: 804-421-4125 FAX: 804-421-8344

ELECTRICAL DESIGN APPROVED	DATE	DESIGNED	D.S.M.	DATE	NOV/95
SCALE AS NOTED	VOLTAGE	120/240			
HWY. DISTRICT HOME SOUND	CHECKED	D.J.W.	DATE	95-12-20	
REV	DATE	DESCRIPTION	COMS	OC/QA	
A	95-06-14	SIGN POLE No. 1 RELOCATED	D.S.M.	A.J.	
B	97-07-28	RECORD DRAWING			

REVISIONS



Province of British Columbia
MINISTRY OF TRANSPORTATION AND HIGHWAYS
WESTVIEW INTERCHANGE DESIGN BUILD

SIGNALS, LIGHTING AND DIRECTIONAL SIGNING INSTALLATION
HOWE SOUND DISTRICT - HIGHWAY No.1
UPPER LEVELS HIGHWAY / WESTVIEW DRIVE INTERCHANGE
NORTH VANCOUVER

SITE PLAN - NOTES - ILLUMINATION LEVELS

Ministry of Transportation and Highways South Coast Regional Office 7818 - 8th Street Burnaby, BC V5N 4N8	PREPARED UNDER THE DIRECTION OF ORIGINAL SIGNED BY D. J. WONG CONSULTANT DATE 95-02-14	ACCEPTED FOR CONSTRUCTION ORIGINAL SIGNED BY A. JACK OC/QA MANAGER DATE 95-02-18
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SHEET 1 OF 22 PROJECT No. 06838 REG. 1 DRAWING No. TE-95094-1

CANCEL PRINTS BEARING PREVIOUS LETTER