

PROPOSED JUNCTION BOX SYMBOL
 BLOCK NAME = JBE
 PLOT STYLE = 4
 LINEWEIGHT = 0.500

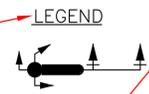
EXISTING JUNCTION BOX SYMBOL
 BLOCK NAME = JB
 PLOT STYLE = 2
 LINEWEIGHT = 0.300

EXIST. LEASE LIGHT POLE SYMBOL
 BLOCK NAME = LTPR
 PLOT STYLE = 2
 LINEWEIGHT = 0.300

TRAFFIC ARROWS & STOP BARS (BOLD GREY)
 COLOR = 252
 GREY SCALE = ON
 SCREENING = 50%
 LINEWEIGHT = 0.250

COA NORTH ARROW SYMBOL
 BLOCK NAME = NORTH...
 PLOT STYLE = 119
 LINEWEIGHT = 0.250

TEXT 4 (TABLE TITLE)
 PLOT STYLE = STYLE 3
 LINEWEIGHT = 0.300
 TEXT STYLE = ROMANS
 HEIGHT = 3.500



- USE SYMBOLS AS SHOWN
- USE LEGEND AS SHOWN, MODIFY IF REQUIRED
- PROPOSED COMBINATION STREETLIGHT/TRAFFIC SIGNAL POLE (LINEWEIGHT= 0.300 - BLOCK= LT)
- EXISTING 11.0m - 250W H.P.S. DAVIT STREETLIGHT POLE (LINEWEIGHT= 0.300 - BLOCK= LT)
- EXISTING B.C. HYDRO POLE C/W LEASE LIGHT (LINEWEIGHT= 0.300 - BLOCK= LTPR)
- PROPOSED CONCRETE JUNCTION BOX (5686) C/W BONDED GALVANIZED STEEL LID (LABELED 'ELEC') (LINEWEIGHT= 0.500 - BLOCK= JBE - HEIGHT= 2.500 - STYLE= ROMANS)
- PROPOSED CONCRETE JUNCTION BOX (5686) C/W BONDED GALVANIZED STEEL LID (LABELED 'COMM') (LINEWEIGHT= 0.500 - BLOCK= JBE - HEIGHT= 2.500 - STYLE= ROMANS)
- PROPOSED CONCRETE JUNCTION BOX (TYPE 37, 2 SECTIONS DEEP) C/W BRICK BASE AND BONDED GALVANIZED STEEL LID (LABELED 'ELEC') (LINEWEIGHT= 0.500 - BLOCK= JBE - HEIGHT= 2.500 - STYLE= ROMANS)
- EXISTING TYPE 5686 JUNCTION BOX (LINEWEIGHT= 0.300 - BLOCK= JB - HEIGHT= 2.500 - STYLE= ROMANS)
- LUMINAIRE ON RED PHASE CONDUCTOR (LINEWEIGHT= 0.300 - HEIGHT= 2.500 - STYLE= ROMANS)
- LUMINAIRE ON BLACK PHASE CONDUCTOR (LINEWEIGHT= 0.300 - HEIGHT= 2.500 - STYLE= ROMANS)
- VEHICLE PHASE (LINEWEIGHT= 0.300 - HEIGHT= 2.500 - STYLE= ROMANS)
- PEDESTRIAN PHASE (LINEWEIGHT= 0.300 - HEIGHT= 2.500 - STYLE= ROMANS)
- PROPOSED RPVC CONDUIT (LINEWEIGHT= 0.500 - LINETYPE= CONDUIT)
- PROPOSED 78mm RPVC COMMUNICATION CONDUIT (LINEWEIGHT= 0.500 - LINETYPE= CENTER2)
- EXISTING RPVC CONDUIT (LINEWEIGHT= 0.300 - LINETYPE= CONDUIT)
- PROPOSED 1.8m X 1.8m DETECTOR LOOP (LINEWEIGHT= 0.300 - BLOCK= DLOOP - HEIGHT= 2.000 - STYLE= ROMANS)
- PROPOSED 53mm RPVC U/G DIP SERVICE CONDUIT C/W 3 No. 3 RW90 FEEDERS (LINEWEIGHT= 0.500 - LINETYPE= AS SHOWN - TEXT STYLE= ROMANS - TEXT HEIGHT= 2.500)
- USE GENERAL NOTES AS SHOWN, MODIFY IF REQUIRED

CONDUCTOR COLOUR CODE (FOR SINGLE CONDUCTORS)

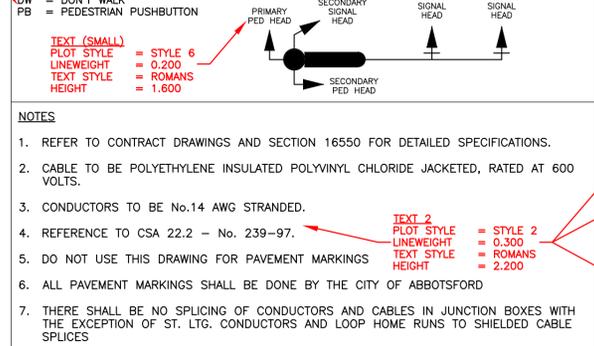
ITEM	SIGNAL SECTION	CONDUCTOR COLOUR
Ø2	RED	RED
	YELLOW	YELLOW
	GREEN	BLUE
Ø3	YELLOW ARROW	BROWN (ORANGE T.T.)
	GREEN ARROW	BLUE (WHITE T.T.)
Ø4	RED	RED
	YELLOW GREEN	BROWN BLUE
Ø6	RED	RED
	YELLOW GREEN	YELLOW (RED T.T.)
Ø8	RED	RED
	YELLOW GREEN	BROWN (ORANGE T.T.)
P2	DON'T WALK	YELLOW
	WALK	BLUE
P4	DON'T WALK	BROWN
	WALK	BLUE
P6	DON'T WALK	YELLOW (RED T.T.)
	WALK	BLUE
P8	DON'T WALK	BROWN (ORANGE T.T.)
	WALK	BLUE

ITEM	CIRCUITS	CONDUCTOR COLOUR
SIGNAL NEUTRAL	NEUTRAL	WHITE
	NEUTRAL	BLACK
STREETLIGHTING	R	RED
	B	BLACK
TRAFFIC CONTROLLER	POWER	BLACK
	POWER	BLACK
PHOTOCELL	POWER	BLACK
	SWITCH LEG	RED
PANEL SUPPLY	POWER	BLACK
	POWER	RED
NEUTRAL	NEUTRAL	WHITE
	NEUTRAL	BLACK
GROUND/BOND	GROUND/BOND	WHITE
	GROUND/BOND	GREEN

NOTE: T.T. DENOTES TAPE TRACER.

COLOUR CODING (19 CONDUCTOR SIGNAL CABLE)

CONDUCTOR No.	SIGNAL ASSIGNMENT	LETTERING	CONDUCTOR COLOUR
1	NEUTRAL	WHITE ONE	WHITE
2	PB RETURN	WHITE TWO	WHITE
3	PRIMARY PB	-	BLACK
4	SECONDARY PB	-	ORANGE
5	PRIMARY RED	RED ONE	RED
6	SECONDARY RED	RED TWO	RED
7	THIRD RED	RED THREE	RED
8	PRIMARY PED DW	RED FOUR	RED
9	SECONDARY PED DW	RED FIVE	RED
10	PRIMARY AMBER	AMBER ONE	YELLOW
11	SECONDARY AMBER	AMBER TWO	YELLOW
12	PRIMARY LT AMBER	AMBER THREE	YELLOW
13	SECONDARY LT AMBER	AMBER FOUR	YELLOW
14	SECONDARY PED WALK	AMBER FIVE	YELLOW
15	PRIMARY GREEN	GREEN ONE	BLUE
16	SECONDARY GREEN	GREEN TWO	BLUE
17	PRIMARY LT GREEN	GREEN THREE	BLUE
18	SECONDARY LT GREEN	GREEN FOUR	BLUE
19	PRIMARY PED WALK	GREEN FIVE	BLUE



INTERSECTION DESIGN CRITERIA

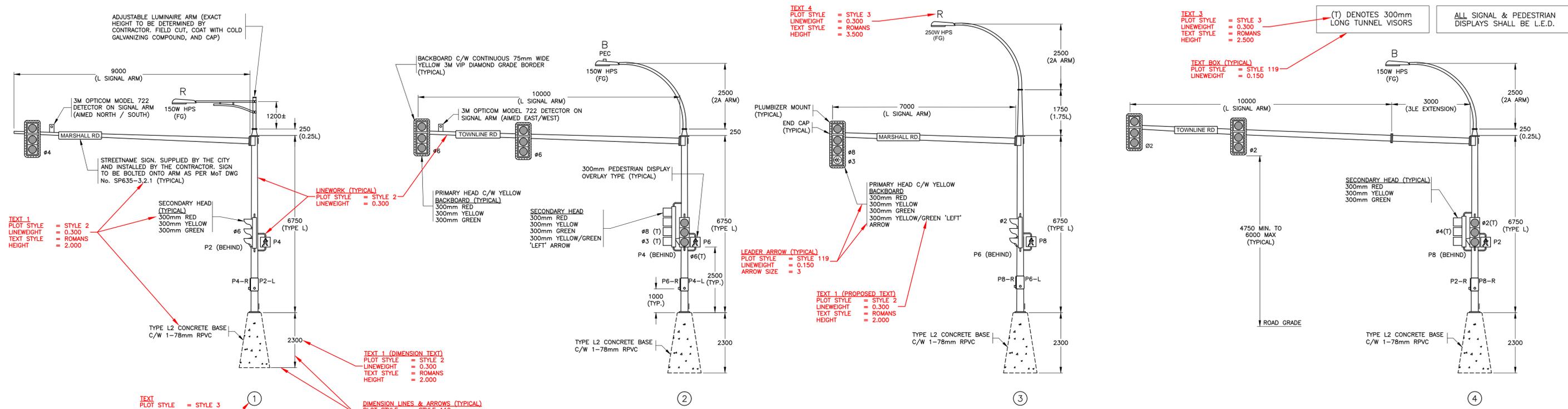
ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
STREET NAME(S)	ROAD A AT ROAD B	
PEDESTRIAN CONFLICT	LOW	
ROAD CLASSIFICATION	ARTERIAL / ARTERIAL	
ILLUMINANCE LEVEL (AVG.)	18.0 LUX	XX.X LUX
ILLUMINANCE UNIFORMITY RATIO (AVG. MIN.)	3.0:1	XX:1
TOTAL LLF (4 YEAR RELAMP INTERVAL)		0.78

OVERHEAD POWER LINE CONFLICTS

CONTRACTOR SHALL CONFIRM ON SITE PRIOR TO CONSTRUCTION THAT POLES & EQUIPMENT WILL MEET WorkSafeBC CLEARANCE REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO CONSULTANT.

CHECK BEFORE YOU DIG

CONTRACTOR SHALL REFER TO MUNICIPAL RECORD / CIVIL DESIGN DRAWINGS FOR ALL OTHER UTILITIES, SERVICE LOCATIONS, AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR.



TEXT 1
PLOT STYLE = STYLE 2
LINEWEIGHT = 0.300
TEXT STYLE = ROMANS
HEIGHT = 2.000

TEXT 1 (DIMENSION TEXT)
PLOT STYLE = STYLE 2
LINEWEIGHT = 0.300
TEXT STYLE = ROMANS
HEIGHT = 2.000

TEXT 1 (PROPOSED TEXT)
PLOT STYLE = STYLE 2
LINEWEIGHT = 0.300
TEXT STYLE = ROMANS
HEIGHT = 2.000

TEXT 2
PLOT STYLE = STYLE 2
LINEWEIGHT = 0.300
TEXT STYLE = ROMANS
HEIGHT = 2.200

TEXT 3
PLOT STYLE = STYLE 3
LINEWEIGHT = 0.300
TEXT STYLE = ROMANS
HEIGHT = 2.500

TEXT 4
PLOT STYLE = STYLE 3
LINEWEIGHT = 0.300
TEXT STYLE = ROMANS
HEIGHT = 3.500

TEXT BOX (TYPICAL)
PLOT STYLE = STYLE 119
LINEWEIGHT = 0.150

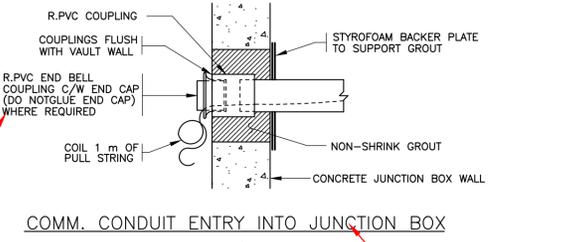
TABLE LINWORK (TYPICAL)
PLOT STYLE = STYLE 119
LINEWEIGHT = 0.150

THE CITY OF ABBOTSFORD SHALL SUPPLY THE FOLLOWING MATERIALS FOR INSTALLATION BY THE CONTRACTOR.

- ONE (1) P44-DD STYLE TRAFFIC SIGNAL CONTROLLER CABINET COMPLETE WITH INTERNAL COMPONENTS AND EXTENSION BASE
- FOUR (4) OVERHEAD STREETNAME SIGNS
- TWO (2) GTT OPTICOM 722 DETECTORS

RECOGNIZED PRODUCT LIST

PRODUCT	MANUFACTURER	SPECIFICATION	REMARKS
LUMINAIRES	GENERAL ELECTRIC	M400A	FLAT GLASS (TYPE 3 MCO DIST.) C/W MAG-REG OR CWA BALLAST
HID LAMPS	PHILLIPS	M.o.T.I.	NON-CYCLING
	OSRAM-SYLVANIA	M.o.T.I.	
	GE LIGHTING	M.o.T.I.	
SIGNAL POLES & ANCHOR BOLTS	WEST COAST ENG.	M.o.T.I.	GALVANIZED
	NOVA POLE	M.o.T.I.	
SIGNAL HEADS	ECONOLITE	M.o.T.I.	ALUMINUM, GREEN COLOUR
	EAGLE	M.o.T.I.	
PEDESTRIAN HEADS (1 SECTION)	ECONOLITE	M.o.T.I.	300mm SQUARE OPENING ALUMINUM, GREEN COLOUR
SIGNAL MOUNTING HARDWARE	GREENLITE TRAFFIC	M.o.T.I.	
PUSHBUTTONS	POLARA ENGINEERING	BULLDOG	ROUND STYLE BDM2-GREEN, WITH MOMENTARY LED
L.E.D. DISPLAYS (REDS, GREENS, YELLOWS, YELLOW/GREEN ARROW & WALK/DON'T WALK)	DIALIGHT	M.o.T.I.	CURRENT ITE SPEC.
PUSHBUTTON MOUNTING PLATE	GREENLITE TRAFFIC	GEL-239	BLACK ON WHITE BACKGROUND
JUNCTION BOX	AE CONCRETE	M.M.C.D. / M.o.T.I.	LABELLED "ELEC" / "COMM"
DETECTOR CABLE	TEXCAN	IMSA SPEC 50-2	2 CONDUCTOR-No.16 STRANDED
DETECTOR LOOP TAGS	PANDUIT	MP-250-C	
OPTICOM CABLE	3M	M138 DETECTOR CABLE	
SERVICE PANEL	VALID MANUFACTURING	M.M.C.D.	STAINLESS STEEL REFER TO WIRING DIAGRAM
	WEST COAST ELECTRIC		
SIGNAL CABLE	TEXCAN	CLMTO	STRANDED



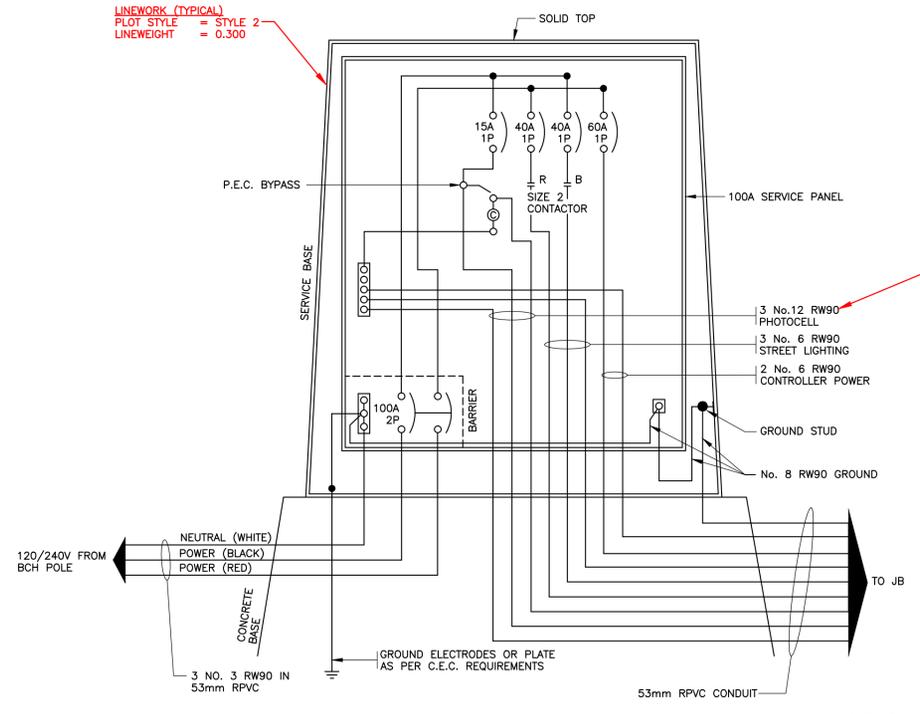
TEXT 1 (PLOT STYLE)
PLOT STYLE = STYLE 2
LINEWEIGHT = 0.300
TEXT STYLE = ROMANS
HEIGHT = 2.000

TEXT 3 (COLUMN TITLE)
PLOT STYLE = STYLE 3
LINEWEIGHT = 0.300
TEXT STYLE = ROMANS
HEIGHT = 2.500

TEXT 4 (TITLE)
PLOT STYLE = STYLE 3
LINEWEIGHT = 0.300
TEXT STYLE = ROMANS
HEIGHT = 3.500

DETECTOR LOOP DETAILS

LOOP No.	SIZE	INDUCTANCE	LOOP	LEAD	TOTAL	PHASE	DET. CH.
L 1	1.8m x 1.8m	4	120	6	126	ø2	
L 2	1.8m x 1.8m	4	120	6	126	ø2	
L 3	1.8m x 1.8m	4	120	6	126	ø2	
L 4	1.8m x 1.8m	4	120	6	126	ø2	
L 5	1.8m x 1.8m	4	120	26	146	ø4	
L 6	1.8m x 1.8m	4	120	26	146	ø4	
L 7	1.8m x 1.8m	4	120	26	146	ø4	
L 8	1.8m x 1.8m	4	120	26	146	ø4	
L 9	1.8m x 1.8m	4	120	44	164	ø6	
L 10	1.8m x 1.8m	4	120	44	164	ø6	
L 11	1.8m x 1.8m	4	120	44	164	ø6	
L 12	1.8m x 1.8m	4	120	44	164	ø6	
L 13	1.8m x 1.8m	4	120	22	142	ø8	
L 14	1.8m x 1.8m	4	120	22	142	ø8	
L 15	1.8m x 1.8m	4	120	22	142	ø8	
L 16	1.8m x 1.8m	4	120	22	142	ø8	
L 17	1.8m x 1.8m	4	120				
L 18	1.8m x 1.8m	4	120	40	280	ø3	



NOTE: USE PLOT STYLE TABLE: "Aby - Traffic_Lighting.ctb"

PAGE FRAME REFER TO PAGE FRAME STANDARDS SHEET

TABLE LINWORK (TYPICAL)
PLOT STYLE = STYLE 119
LINEWEIGHT = 0.150

GRD NO. XX CITY FILE NO. #..... T-XXX

CLIENT/DEVELOPER:	ENGINEER:	PROJECT NO: XX	SHEET NO: X of X	City of Abbotsford Engineering Department Reviewed for compliance with City standards. By:..... Date:..... <input type="checkbox"/> Released for construction <input type="checkbox"/> Revise as noted
DATE: YEAR MM DD	DATE: YEAR MM DD	DWN BY: XX	SCALE HORZ: -	
DESIGN: XX	SCALE VERT: 1 : 75	TRAFFIC SIGNAL ROAD A AT ROAD B ELEVATIONS - DETAILS		
4 YEAR MM DD XX ISSUED FOR CONSTRUCTION XX XX	NO. DATE BY REVISIONS TECH. ENG.			
3 YEAR MM DD XX ISSUED FOR TENDER XX XX				
2 YEAR MM DD XX ISSUED FOR REVIEW XX XX				
1 YEAR MM DD XX PRELIMINARY SUBMISSION XX XX				

FILE LOCATION

TEMPLATE REV. 2016 12 05