Appendix 700.1

Standard Drafting Symbols Library

(Refer to Template Section for AutoCAD Format Drafting Symbols)
SERDIV
(TO INDICATE DIVISION OF ELECTRICAL SERVICES)

SITE PLAN
SP250
0 1:250 10

SITE PLAN
SP500
0 1:500 25

ELEVATIONS
ELS
0 1:75 5

SERVICE PANEL No. X
120/240V

PANELNO
(SERVICE PANEL NUMBER)

TO XXX
TO XXX

DISTRIBUTION PANEL No. X
120/240V

DISTNO
(DISTRIBUTION PANEL NUMBER)

NORTH
(NORTH ARROW)

SIGNAL
(TO INDICATE SIGNAL NORTH)

X POLENO (SIGNAL POLE NUMBER)
SX SIGNNO (SIGN POLE NUMBER)
ELL
(USED TO ENCIRCLE GROUPS OF CONDUITS FOR CALLOUT, STRETCH TO SUIT)
A1ARR
(SIGNAL PHASE WITH TURN ARROW INDICATION)
CONARR
(TO DENOTE CONTINUATION OF CONDUIT RUN)
CONCAP
(TO DENOTE THE END OF A CAPPED CONDUIT RUN)

INSERT SYMBOLS AT FULL SCALE ON ALL PLANS

---

SITE PLAN SYMBOLS

REV DATE DESCRIPTION
A
B
C

JUNE 2001

DRAFTING STANDARD DRAWING No.
700.1—DS—3
LOOP (QUADRAPOLE DETECTOR LOOP)  
( OBSOLETE LOOP )

RLOOP (RECTANGULAR DETECTOR COUNT LOOP; STRETCH TO SUIT LANE)

PLOOP (PRE-FORMED DETECTOR LOOP)

RNDLOOP (ROUND DETECTOR LOOP)

DLOOP (DIAMOND DETECTOR LOOP)

DLL (DETECTOR LOOP LEAD)

NOTE TO DRAFTER:
INSERT SYMBOLS AT HALF SCALE FOR 1:500 PLANS

COUNT LOOPS IN RIGHT TURN LANES  
BEHIND TRAFFIC ISLANDS  
(PAVEMENT WIDTH IS >9.0m)

1–32mm RPVC  
2 PR TWISTED No.14 LOOPS

COUNT STATION POST

1–25mm RPVC  
LUMINAIRE POLE OR  
OTHER SUITABLE PROTECTION

1.8m x 1.8m SQUARE  
COUNT LOOP (4 TURNS)  
(TYPICAL FOR 2)

CNTPOST (COUNT STATION POST)

CNTLOOP (COUNT LOOP)
PRE-TENDER PACKAGE

FOR MINISTRY USE ONLY
REFER TO DRAWING SERIES TE-X
FOR CONTINUATION OF LIGHTING

(PLACED IN DRAWING WHERE SITE PLAN ENDS IF LIGHTING CONTINUES ONTO ANOTHER EEC DRAWING SERIES)

X SIGNAL DISPLAYS ARE LED

ALL EQUIPMENT IS EXISTING EXCEPT WHERE NOTED

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<th>STA.</th>
<th>OFFSET</th>
<th>NORTH-EAST COORDINATES</th>
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NEC

REV | DATE | DESCRIPTION
---|------|--------------
A  |      |              
B  |      |              
C  |      |              

MISCELLANEOUS DRAWING NOTE BLOCKS

DRAFTING STANDARD DRAWING No. 700.1-DS-10

JUNE 2001
ONE
1-50mm RPVC
2 No. 6 CONT. PWR.
1 No. 8 BOND

2-50mm RPVC (1 EMPTY)
XX No. 14 SIGNALS
1 No. 10 SIG. NEUT.
1 No. 12 BOND

2-50mm RPVC (1 EMPTY)
X-2C SH. LOOPS
1 No. 12 BOND

TWO
1-50mm RPVC
2 No. 6 CONT. PWR.
3 No. 10 LUM. CCTS. A&B
3 No. 10 LUM. CCTS. C&D
XX No. 14 SIGNALS
1 No. 6 GROUND (TO GND. PLATE)
1 No. 8 BOND

THR
1-50mm RPVC
XX No. 14 SIGNALS
1 No. 12 BOND

FOU
1-50mm RPVC
2 No. 10 LUM. CCTS. X
XX No. 14 SIGNALS
1 No. 12 BOND

FIV
1-50mm RPVC
3 No. 10 LUM. CCTS. A&B
XX No. 14 SIGNALS
1 No. 10 SIG. NEUT.
1 No. 12 BOND

1-50mm RPVC
X-2C SH. LOOPS
1 No. 12 BOND

SIX
1-50mm RPVC
3 No. 10 LUM. CCTS. A&B
1 No. 12 BOND

SEV
1-50mm RPVC
3 No. 10 LUM. CCTS. A&B
1 No. 12 BOND

1-50mm RPVC
(EMPTY)

EIG
1-50mm RPVC
2 No. 14 IS. FLASH.
1 No. 12 BOND

NIN
1-50mm RPVC
2 No. 10 LUM. CCTS. X
3 No. 14 ADV. WARN. FLASH. No. AX
1 No. 12 BOND

TEN
2-50mm RPVC (EMPTY)
(FUTURE COMMUNICATION)

ELE
1-50mm RPVC
3 No. 3 PWR.

* DRAFTING NOTES *

CONDUIT TYPES
RPVC = RIGID PVC CONDUIT
RMC = RIGID METAL CONDUIT
FMC = LIQUID TIGHT FLEXIBLE METAL CONDUIT

REFER TO SECTION 707.4.1.4 FOR CONDUCTOR ORDER IN CALLOUTS

TYPICAL CALLOUT EXAMPLES

1-50mm RPVC
3 No. 10 LUM. CCTS. A&B
4 No. 14 SIGNALS
1 No. 10 SIG. NEUT.
1 No. 14 BOND

REMOVE: 1 No. 14 BOND
ADD: 9 No. 14 SIGNALS
2 No. 10 RECEPT. 2R(1)
1 No. 12 BOND

1-50mm RPVC
ADD: 2-2C No. 18 SH. TEL. INTERTIE
1 No. 12 BOND

REV. A
INSTALL:

1-50mm RPVC
2-2C No. 18 SH. TEL. INTERTIE
1 No. 12 BOND

INSTALL:
EMERG. PRE-EMPT. SENSOR #A1
EMERG. PRE-EMPT. LIGHT #A2

ADD: REMOVE: INSTALL:

ADD: REMOVE INSTALL
NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE ELECTRICAL SPECIAL PROVISIONS ISSUED WITH THIS CONTRACT.

2. CONDUCTORS FROM JUNCTION BOX TO LUMINAIRE POLE SHALL BE:
   2 No.10 RW90  50mm RPVC (UNLESS OTHERWISE NOTED)
   1 No.12 RW90

3. ALL CONDUITS FROM JUNCTION BOXES TO BASES ARE TO BE 50mm RPVC.

4. JUNCTION BOXES SHALL BE POSITIONED BEHIND OR, AS AN ALTERNATIVE, TO THE SIDE, BUT NOT IN FRONT OF POLES.

5. EACH SHIELDED CABLE SHALL RUN CONTINUOUS WITH NO SPLICES, FROM THE CONTROLLER TO THE RESPECTIVE LOOP.

6. 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.

7. LUMINAIRE NUMBERING EXAMPLE:  1A2
   SERVICE No. = 1  COT. LETTER = A  LUM. No. = 2

8. WHERE POSSIBLE, POLES SHALL BE POSITIONED WITH THE HANDHOLE IN THE BACK OR IF NOT POSSIBLE, ON THE DOWNSTREAM TRAFFIC SIDE.

9. ALL CONCRETE BASES AND JUNCTION BOX SYMBOLS ARE NOT TO SCALE.

10. 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 MINISTRY REPRESENTATIVE OF ANY ADJUSTMENTS MADE TO THE BASE LOCATION WHICH WILL EFFECT THE LOCATIONS OF HARDWARE TO BE MOUNTED ON THAT POLE PRIOR TO DRILLING.

11. WHERE THREE OR MORE SECONDARY/PEDESTRIAN HEADS ARE BEING MOUNTED ON THE POLE SHAFT, ORIENT THE PEDESTRIAN HEAD MOUNTING BRACKETS WITH THE WIREWAY ON TOP.

12. WHERE TWO OR MORE SECONDARY HEADS ARE BEING MOUNTED IN THE SAME SHAFT, ALL SECONDARY HEADS SHALL HAVE TUNNELS.

13. ALL NEW JUNCTION BOXES SHALL HAVE STEEL LIDS.

14. ALL CONDUCTORS SHALL BE RW90 STRANDED COPPER UNLESS SHOWN OTHERWISE.

NOTES1

(FOR SIGNAL AND LIGHTING INSTALLATIONS)
NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE ELECTRICAL SPECIAL PROVISIONS ISSUED WITH THIS CONTRACT.

2. CONDUCTORS FROM JUNCTION BOX TO LUMINAIRE POLE SHALL BE:
   2 No.10 RW90-50mm RPVC (UNLESS OTHERWISE NOTED)
   1 No.12 RW90-50mm RPVC

3. ALL CONDUITS FROM JUNCTION BOXES TO BASES ARE TO BE 50mm RPVC.

4. JUNCTION BOXES SHALL BE POSITIONED BEHIND OR, AS AN ALTERNATIVE, TO THE SIDE, BUT NOT IN FRONT OF POLES.

5. LUMINAIRE NUMBERING EXAMPLE: 1A2
   SERVICE No. – 1  CCT. LETTER – A  LUM. No. – 2

6. WHERE POSSIBLE, POLES SHALL BE POSITIONED WITH THE HANDBOARD IN THE BACK OR IF NOT POSSIBLE, ON THE DOWNSTREAM TRAFFIC SIDE.

7. ALL CONCRETE BASES AND JUNCTION BOX SYMBOLS ARE NOT TO SCALE.

8. ALL NEW JUNCTION BOXES SHALL HAVE STEEL LIDS.

9. ALL CONDUCTORS SHALL BE RW90 STRANDED COPPER UNLESS SHOWN OTHERWISE.

NOTES2

(FOR LIGHTING INSTALLATIONS)

NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE ELECTRICAL SPECIAL PROVISIONS ISSUED WITH THIS CONTRACT.

2. ALL CONDUITS FROM JUNCTION BOXES TO BASES ARE TO BE 50mm RPVC.

3. JUNCTION BOXES SHALL BE POSITIONED BEHIND OR, AS AN ALTERNATIVE, TO THE SIDE, BUT NOT IN FRONT OF POLES.

4. ALL CONCRETE BASES AND JUNCTION BOX SYMBOLS ARE NOT TO SCALE.

5. ALL NEW JUNCTION BOXES SHALL HAVE STEEL LIDS.

NOTES3

(FOR PRE-DUCTING INSTALLATIONS)
FOR LUMINAIRE, 2A AND 2C ARMS,
SEE ELEVATION ON PAGE 700.1-DS-21

5000
(TYPE 2)

5TYPE2

6500
(TYPE 2)

6TYPE2

8500
(TYPE 2)

8TYPE2

11000
(TYPE 2)

11TYPE2

TYPE D3
CONCRETE BASE

TYPED3

BREAKAWAY BASE
(WHERE APPLICABLE)

BREAK

TYPE D2
CONCRETE BASE

TYPED2

TYPE D1 CONCRETE
SPREAD FOOTING BASE

TYPED1

NOTE TO DRAFTER:
NECK HEIGHT VARI

FRANGIBLE BASE
(WHERE APPLICABLE)

FRANG

TYPE C
CONCRETE BASE

TYPEC

REV DATE DESCRIPTION
A
B
C

TYPE 2 SHAFTS
AND CONCRETE BASES

DRAFTING STANDARD
DRAWING NO.
700.1-DS-14

JUNE 2001
FOR LUMINAIRES, 2A AND 2C ARMS, SEE ELEVATION ON PAGE 700.1—DS—21

NOTE TO DRAFTER:
STRETCH 3F SIGNAL ARM TO SUIT REQUIRED LENGTH.
MINIMUM = 300 
MAXIMUM = 3000

(SPECIAL USE ONLY)

TYPE 1 AND 3 SHAFTS, ARMS AND CONCRETE BASES

TYPE 3

TYPE 2

TYPE 1

TYPE 1 CONCRETE BASE

TYPE 3 CONCRETE BASE

TYPE 1 CONCRETE SPREAD FOOTING BASE

NOTE TO DRAFTER: NECK HEIGHT VARIES

REV  DATE  DESCRIPTION
A
B
C

JUNE 2001
TYPE 4, 4A AND 5 SHAFTS
AND CONCRETE BASES

TYPE 4

TYPE 4A

TYPE 5

TYPE A
CONCRETE BASE

TYPE B
CONCRETE BASE

TYPE C
CONCRETE BASE

REV  DATE  DESCRIPTION
A       
B       
C       

JUNE 2001  DRAFTING STANDARD
700.1—DS—16
FOR LUMINAIRES, 2A AND 2C ARMS,
SEE ELEVATION ON PAGE 700.1–DS–21

NOTE TO DRAFTER:
STRETCH 3F SIGNAL ARM
TO SUIT REQUIRED LENGTH.
MINIMUM = 300
MAXIMUM = 3000

NOTES TO DRAFTER:
1. WHEN EXTENSIONS ARE MOUNTED HORIZONTALLY,
   ROTATE AT AN ANGLE OF −88° TO MATCH FLANGE.

REV   DATE   DESCRIPTION
A
B
C
FOR LUMINAIRES, 2A AND 2C ARMS,
SEE ELEVATION ON PAGE 700.1—DS—21

EXTENSIONS (0.25L, 1.75L, OR 4.25L)

NOTE TO DRAFTER:
3LEXT IS USED FOR SIGNAL INSTALLATIONS ONLY

3000
(3LE EXTENSION)

 XXXX
(L SIGNAL ARM)

LARM

NOTE TO DRAFTER:
STRETCH SIGNAL AND SIGN ARMS TO SUIT REQUIRED LENGTHS.
(IN 1 METRE INCREMENTS)
MINIMUM = 3000
MAXIMUM = 11000

 XXXX
(L SIGNAL ARM)

LSARM

NOTE TO DRAFTER:
The 3m AND 5m SIGN ARMS SHOWN ARE STANDARD LENGTHS;
OTHER LENGTHS MAY BE USED (SEE NOTE ABOVE)

5000
(LS SIGN ARM)

5LSARM

TYPE L2
CONCRETE BASE

3000
(LS SIGN ARM)

3LSARM

TYPE L1
CONCRETE SPREAD FOOTING BASE

NOTE TO DRAFTER:
NECK HEIGHT VARIES

XXXX

TYPE L3
CONCRETE BASE

REV | DATE | DESCRIPTION
-- | ---- | -----------------
A | | TYPE L SHAFTS, ARMS, EXTENSIONS AND CONCRETE BASES
B | | JUNE 2001
C | | DRAFTING STANDARD DRAWING No. 700.1—DS—18
FOR LUMINAIRES, 2A AND 2C ARMS, SEE ELEVATION ON PAGE 700.1–DS–21

EXTENSIONS (0.25M, 1.75M, OR 4.25M)

NOTE TO DRAFTER:
STRETCH LARM TO SUIT REQUIRED LENGTH
(IN 1 METRE INCREMENTS)
MINIMUM = 3000
MAXIMUM = 11000

XXXXXXXXX
(L SIGNAL ARM)

240

LARM
FA

TYPE 4 TO TYPE 2
FLANGE ADAPTOR

NOTE TO DRAFTER:
MEXT TO BE USED WITH 6m, 7m AND 8m SIGNAL ARMS ONLY

6000
(6M SIGNAL ARM EXTENSION)

MEXT

NOTE TO DRAFTER:
MSARM CAN BE EITHER M1 OR M2 AND CAN VARY FROM 3000 TO 11000 IN INCREMENTS OF 1000
(STRETCH TO SUIT)

XXXXXXXXX
(M SIGNAL ARM)

MSARM

425MEXT

175MEXT

025MEXT

4250
(4.25M)

1750
(1.75M)

250
(0.25M)

TYPE M1 CONCRETE SPREAD FOOTING BASE

NOTE TO DRAFTER:
NECK HEIGHT VARIES

XXX

TYPE M2 CONCRETE BASE

2700

TYPE M SHAFTS, ARMS, EXTENSIONS AND CONCRETE BASES

REV DATE DESCRIPTION

A

B

C

DRAFTING STANDARD
DRAWING No.

BRITISH COLUMBIA Ministry of Transportation JUNE 2001

700.1–DS–19
FOR LUMINAIREs, 2A AND 2C ARMs, SEE ELEVATION ON PAGE 700.1—DS—21

EXTENSIONS (1.13H, OR 3.63H)

NOTE TO DRAFTER:
HSARM CAN BE EITHER H1 OR H2 AND CAN VARY FROM 3000 TO 11000 IN INCREMENTS OF 1000 (STRETCH TO SUIT)

363HEXT

113HEXT

7370 (TYPE H)

3200

TYPE H1 CONCRETE SPREAD FOOTING BASE

NOTE TO DRAFTER:
NECK HEIGHT VARIES

TYPE H2 CONCRETE BASE

TYPE H SHAFT, ARM, EXTENSIONS AND CONCRETE BASES

REV DATE DESCRIPTION
A
B
C

JUNE 2001

DRAFTING STANDARD
DRAWING NO. 700.1—DS—20
DISTRIBUTION PANEL No. 1
120/240V

TELEPHONE DEMARCATION PANEL

TO JUNCTION BOX ← TO SERVICE DISCONNECT
SERVUG

ORIENT CLEVIS TO SUIT POWER SUPPLY

SERVICE PANEL No. 1
120/240V


SERVOH

ORIENT CLEVIS TO SUIT POWER SUPPLY

SERVICE PANEL No. 1
120/240V

TELEPHONE DEMARCATION PANEL

TO JUNCTION BOX ←

X

NOTE TO DRAFTER:
X = INSERTION POINT

SERVOH

SERVUG

SERVOH

SERVOH

SERVUG
NOTES

1. INSTALLATION MUST BE IN ACCORDANCE WITH B.C. HYDRO STANDARDS AND WITH C.E.C. AND SAFETY ENGINEERING SERVICES DIVISION.
2. CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION OF SERVICE CONDUCTORS; CONNECTION BY B.C. HYDRO.
3. CONTRACTOR TO OBTAIN PERMISSION FROM B.C. HYDRO BEFORE INSTALLING EQUIPMENT ON POLE.
4. INSTALL SERVICE BREAKER TO MEET B.C. HYDRO STANDARD ES43 G1-11.
5. "B.C. HYDRO" SHALL ALSO MEAN LOCAL POWER AUTHORITY WHERE APPLICABLE.
6. PADLOCKS SHALL BE USED TO LOCK THE ENCLOSURE AND BREAKER MECHANISM.

DISCONNECT ON POWER POLE

N.T.S.

DET2

REV  DATE  DESCRIPTION
A       
B       
C       

UNDERGROUND DIP SERVICE DETAILS

DRAFTING STANDARD
DRAWING No. 700.1—DS—24

JUNE 2001
## Detector Loop Table

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<th>SIZE</th>
<th>SIZE</th>
<th>TURN</th>
<th>LOOP (µH)</th>
<th>LEAD (µH)</th>
<th>TOTAL (µH)</th>
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<td>4</td>
<td>120</td>
<td>X</td>
<td>X</td>
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</tr>
</tbody>
</table>

**NOTE:**
- ROUND LOOPS MAY BE USED IN PLACE OF DIAMOND LOOPS
  AT THE DISCRETION OF THE CONTRACTOR
- PL DENOTES PREFORMED LOOP
- FL DENOTES FUTURE INSTALLATION

**LD1**

**Note to Drafter:**
The first 24 loops are for a typical installation
of diamond loops for an actuated signal.
The remaining are examples of situations that
may also be encountered.

## Revision History

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# CONDUCTOR COLOUR CODE

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**CC1**

**CC2**

**CC3**

**CC4**

**CONDUCTOR COLOUR CODES**

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**NOTE:** T.T. DENOTES TAPE TRACER.

**CONTROLLER POWER**

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<td>PURPLE/PURPLE (BROWN T.T.)</td>
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**ADVANCE WARNING FLASHER NO. A1**

- YELLOW
- BROWN

**ADVANCE WARNING FLASHER NO. A2**

- YELLOW (RED T.T.)
- BROWN

**NOTE:** T.T. DENOTES TAPE TRACER.

**REFER TO SP/335-2.5.7 FOR NOTES ON CONDUCTOR LABELLING.** LABEL CONDUCTORS AS SHOWN ON EMERGENCY PRE-EMPTION CONDUCTOR LABELLING TABLE.
CONDUCTOR COLOUR CODE

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CONTROLLER POWER: BLACK
LUMINAIRE CETS, A&C: RED
LUMINAIRE CETS, B&D: BLACK
NEUTRAL: WHITE
GROUND/BOND: GREEN

NOTE: T.T. DENOTES TAPE TRACER

EMERGENCY PRE-EMPTION CONDUCTOR LABELLING

<table>
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<tr>
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</tbody>
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NOTE: T.T. DENOTES TAPE TRACER

CONDUCTOR COLOUR CODES (PRE-EMPTION)

REV | DATE | DESCRIPTION
--- |------|----------------|
A   |      |                |
B   |      |                |
C   |      |                |
NOTE:
EQUIPMENT SHOWN:
--------------------- TO BE REMOVED
--------------------- TO BE ADDED

WDMOTE

SERVICE

3 No. 10 - 25mm R.M.C.

30A - 2P

15A - 1P

120/240V, WEATHERPROOF SERVICE PANEL

GROUND STUD

1 No. 6 GROUND - CONNECT TO GROUND PLATE AS PER C.E.C.

1 No. 8 BOND

CONNECT BONDING CONDUCTOR TO POLE AS PER C.E.C. REQUIREMENTS

TO JUNCTION BOX

50mm RPVC

SERVICE POLE

NEUTRAL (WHITE)

SWITCH LEG (RED)

POWER (BLACK)

FUSE

CONCRETE BASE

TO LUM X

TO P.E.C.

N.T.S. WIRING DIAGRAM - SERVICE PANEL No. X

WD1

REV DATE DESCRIPTION

A

B

C

WIRING DIAGRAM
30A OVERHEAD PANEL

DRAFTING STANDARD
DRAWING No.
700.1 - DS - 29

JUNE 2001
WIRING DIAGRAM - SERVICE PANEL No. X (120/208 3φ)
N.T.S.

WD6
LUMINAIRE WIRING
N.T.S.
LW

NOTE TO DRAFTER:
LUMINAIRE ORIENTATION AND LOCATION VARIES
* LEAD/LAG PHASING ON CROSS STREET DUE TO GEOMETRIC RESTRICTION.
* LEAD/LAG ROUTE X IS CO-ORDINATION BASED.

SD13

SIGNAL DISPLAY (EMERGENCY PRE-EMPTION)

SD14

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TYPE B BASE/POST MOUNTED FLASHER ADAPTOR DETAIL

N.T.S.

BBF
MODIFIED TYPE C CONCRETE BASE
N.T.S.
MODC

NOTES
1. SEE STANDARD SPECIFICATIONS & SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
2. "SN" DENOTES MINISTRY STOCK NUMBER.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
4. SEE DRAWINGS SP635–1.4.1 TO 1.4.4 FOR BACKFILL REQUIREMENTS.

MODIFIED C BASE DETAILS
STLTD (DELINEATOR, ON LUMINAIRE POLE)  BRSN2 (BREAKAWAY SIGN, DOUBLE LEG)

WPD (DELINEATOR, ON WOOD POST)  BRSN3 (BREAKAWAY SIGN, TRIPLE LEG)

SSD (DELINEATOR, ON PERFORATED SQUARE STEEL POST)  WP1 (SINGLE WOOD POST)

WP3 (TRIPLE WOOD POST)

SS1 (PERFORATED SQUARE STEEL SIGN, SINGLE POST)

SS2 (PERFORATED SQUARE STEEL SIGN, DOUBLE POST)

CMB (BARRIER MOUNTED SIGN)

WMDBR (WHITE MONO-DIRECTIONAL BARRIER REFLECTOR)

NOTE TO DRAFTER: THESE SYMBOLS SHALL BE INSERTED ON 1:500 SIGNING AND MARKINGS DRAWINGS ONLY AT A SCALE OF 1:1.

YMDBR (YELLOW MONO-DIRECTIONAL BARRIER REFLECTOR)

MDPR (MONO-DIRECTIONAL PAVEMENT REFLECTOR)

BDPR (BI-DIRECTIONAL PAVEMENT REFLECTOR)

SIGN POLE No. XX
STA. XXX+XX

SNOTE1

NOTE TO DRAFTER: 'SNOTE1 TO 'SNOTE3 GO ON THE SIGNING, MARKING AND ELECTRICAL DRAWINGS. THE SIGNS ARE GENERALLY SHOWN ON THE SIGNING AND MARKINGS DRAWINGS ONLY.

SIGN BRIDGE STRUCTURE No. XX
STA. XXX+XX

SNOTE2

CANTILEVER SIGN STRUCTURE No. XX
STA. XXX+XX

SNOTE3

BREAKAWAY SIGN STRUCTURE No. XX
STA. XXX+XX

SNOTE4

WOOD POST SIGN STRUCTURE No. XX
STA. XXX+XX

SNOTE5

NOTE TO DRAFTER: 'SNOTES' SHALL NOT APPLY TO SINGLE WOOD POST STRUCTURES

REV DATE DESCRIPTION
A
B
C

SIGNING SITE PLAN SYMBOLS

700.1-DS-50

JUNE 2001

BRITISH COLUMBIA Ministry of Transportation
### Overall Listing of New Small Signs

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<th>DESCRIPTION</th>
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NOTE TO DRAFTER: SPECIFY TOTAL NUMBER

### Overall Listing of New Restricted Signs

<table>
<thead>
<tr>
<th>SIGN No.</th>
<th>DESCRIPTION</th>
<th>SIZE (WIDTH x HEIGHT IN mm)</th>
<th>TYPE (No. x LENGTH OF ALUMINUM SIGN SUPPORTS)</th>
<th>NUMBER OF &quot;J&quot; CLIPS REQUIRED</th>
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<td>WIDTH x HEIGHT</td>
<td>T (# x LENGTH)</td>
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<td>XX-X-XXXX</td>
<td>X</td>
<td>WIDTH x HEIGHT</td>
<td>T (# x LENGTH)</td>
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NOTE TO DRAFTER: SPECIFY SIGN MESSAGE OR TYPE

1. 'T' INDICATES ALUMINUM T-SECTION SECTION (SUPPORTED WITH SIGN)
2. 'L' INDICATES ALUMINUM ANGLE IRON (SUPPORTED WITH SIGN)
3. CONNECTION BOLTS SUPPLIED WITH SIGN

### New Signs Tables

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</table>

BRITISH COLUMBIA
Ministry of Transportation

JUNE 2001
DRAFTING STANDARD DRAWING No.
700.1-DS-51
CSNBR (CANTILEVER SIGN STRUCTURE)

NOTE TO DRAFTER:
SHOW OUTLINE OF CONCRETE BASE

SNBR (SIGN BRIDGE)

EXTRUDED ALUMINUM MESSAGE SIGN c/w 1.2LS SIGN ARM

SIGN No. XX-X-XXXX
2400 x 1200

MESN1

MESSAGE SIGN

EXTRUDED ALUMINUM SIGN

SIGN No. XX-X-XXXX
XXXX x XXXX

MESN2

NOTE TO DRAFTER:
SHOW SIGN MESSAGE

SIGNING DETAILS

REV | DATE | DESCRIPTION
---|------|-------------
A |
B |
C |

JUNE 2001

DRAFTING STANDARD
DRAWING No.
700.1—DS—52
EMERGENCY PRE-EMPTION ENCLOSURE
(400mm HIGH X 300mm WIDE X 150mm DEEP)

NOTE TO DRAFTER:
CONFIRM HEIGHT
WITH DESIGNER

* MOUNTING HEIGHT VARIES

PRESEN (FOR PRE-EMPT. SENSOR
ORIENTATION AND LOCATION VARIES)
NOTE TO DRAFTER:
CONFIRM LOCATION
WITH DESIGNER

EMERG. PRE-EMPT. SENSOR ØXX
EMERG. PRE-EMPT. IND. LIGHTS ØXX

EMLs (SIREN ACTIVATED PRE-EMPTION; EMERGENCY BLUE AND WHITE LIGHTS AND EMERGENCY SIREN DETECTOR COMBINATION UNIT)

EMP EMERGENCY PRE-EMPTION ENCLOSURE
(400mm HIGH x 300mm WIDE x 150mm DEEP)

* MOUNTING HEIGHT VARIES

PRELS (FOR PRE-EMPT. LIGHTS AND SENSOR ORIENTATION AND LOCATION VARIES)

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</table>

INDICATION LIGHTS AND SENSOR COMBINATION UNIT – SIREN ACTIVATED EMERGENCY PRE-EMPTION ELEVATION

JUNE 2001

DRAFTING STANDARD DRAWING No. 700.1—DS—55
NOTE TO DRAFTER:
CONFIRM LOCATION
WITH DESIGNER

EMERG. PRE-EMPT.
SENSOR øXX
EMERG. PRE-EMPT.
IND. LIGHTS øXX

EML
(SIREN ACTIVATED PRE-EMPTION;
EMERGENCY BLUE AND WHITE LIGHTS;
REFER TO ML DRAWING EXAMPLES
FOR INSTALLATION DETAILS)

SIREN
(SIREN ACTIVATED PRE-EMPTION;
EMERGENCY SIREN DETECTOR;
REFER TO ML DRAWING EXAMPLES
FOR INSTALLATION DETAILS)

EMP
EMERGENCY PRE-EMPTION ENCLOSURE
(400mm HIGH X 300mm WIDE X 150mm DEEP)

* MOUNTING HEIGHT VARIES

♀ PRELT
(FOR PRE-EMPT. LIGHT
ORIENTATION AND LOCATION VARIES)

ℊ PRESEN
(FOR PRE-EMPT. SENSOR
ORIENTATION AND LOCATION VARIES)

INDICATION LIGHTS AND SENSOR UNITS
SIREN ACTIVATED EMERGENCY
PRE-EMPTION ELEVATION

REV | DATE | DESCRIPTION
---|------|---
A | | |
B | | |
C | | |

JUNE 2001
DRAFTING STANDARD
DRAWING No.
700.1-DS-56

BRITISH COLUMBIA Ministry of Transportation
EMSF (STROBE ACTIVATED PRE-EMPTION; REFER TO ML DRAWING EXAMPLES FOR INSTALLATION DETAILS)

EMS (SIDE VIEW)

EMP EMERGENCY PRE-EMPTION ENCLOSURE (400mm HIGH X 300mm WIDE X 150mm DEEP)

* MOUNTING HEIGHT VARIES

STROBE (FOR PRE-EMPT. STROBE ORIENTATION AND LOCATION VARIES)

NOTE TO DRAFTER: CONFIRM LOCATION WITH DESIGNER

REV DATE DESCRIPTION

A

B

C

STROBE ACTIVATED EMERGENCY PRE-EMPTION ELEVATION

JUNE 2001

DRAFTING STANDARD DRAWING No. 700.1—DS—57
NOTE TO DRAFTER: CONFIRM LOCATION WITH DESIGNER

ANTENNA

XXX

EMERG. PRE-EMPT. ANTENNA

EMP EMERGENCY PRE-EMPTION ENCLOSURE
(400mm HIGH X 300mm WIDE x 150mm DEEP)

* MOUNTING HEIGHT VARIES

RADIO (FOR PRE-EMPT. RADIO LOCATION VARIES)

REV | DATE | DESCRIPTION
--- | --- | ---
A | | RADIO ACTIVATED EMERGENCY PRE-EMPTION ELEVATION
B | | JUNE 2001
C | | DRAFTING STANDARD DRAWING No. 700.1—DS—58
EMRGLT  (PAIR OF EMERGENCY PRE-EMPTION INDICATION LIGHTS; ORIENTATION VARIES)

EMLT  (EMERGENCY PRE-EMPTION LIGHT)

EMERG. PRE-EMPT. FIRE IND. LIGHTS No. X

EMP  EMERGENCY PRE-EMPTION ENCLOSURE
(400mm HIGH X 300mm WIDE x 150mm DEEP)

* MOUNTING HEIGHT VARIES

5000
1700*
WOOD POST SIGN No. X
STA. XXX+XX

WOOD POST MOUNTED SIGN ELEVATION

REV DATE DESCRIPTION
A
B
C

NOTE TO DRAFTER: CONFIRM SIGN OFFSET
NOTE TO DRAFTER: SHOW MINISTRY SIGN NUMBER
NOTE TO DRAFTER: SHOW SIGN WIDTH AND HEIGHT
NOTE TO DRAFTER: EXTRUDED ALUMINUM SIGN
NOTE TO DRAFTER: X" SQUARE X XXXX LONG WOOD POST
NOTE TO DRAFTER: XXXX (LANE) XXXX (SHOULDER)
NOTE TO DRAFTER: CONFIRM WIDTH
NOTE TO DRAFTER: CRB
NOTE TO DRAFTER: CONFIRM SLOPE
NOTE TO DRAFTER: 2200 (TYPICAL)
NOTE TO DRAFTER: XXXX X XXXX LONG WOOD POST
NOTE TO DRAFTER: CONFIRM LEG SIZES

WDEL

JUNE 2001 DRAFTING STANDARD DRAWING NO. 700.1-DS-61
THIS AREA FOR LEGEND ON SHEET ONE ONLY
(DELETE THIS BLOCK FROM ALL OTHER SHEETS)
SIGN STRUCTURE SPREAD FOOTING

CONCRETE BASE DETAILS

DESIGNER TO CONFIRM BASE DIMENSIONS, NUMBER OF ANCHOR BOLTS, REBAR SIZE & SPACING AND REVISE DRAWINGS TO SUIT
DESIGNER TO CONFIRM BASE DIMENSIONS, NUMBER OF Anchor BOLts, REBAR SIZE & SPACING AND REVISE DRAWINGS TO SUIT

SIGN STRUCTURE COMBINATION MEDIAN BARRIER
SPREAD FOOTING CONCRETE BASE

ALL CONDUIT TO BE 2" RWPVC UNLESS OTHERWISE NOTED
SPECIAL LUMINAIRE ARM FOR HYDRO CONFLICTS
NOTES:
1. ALL POWER & NEUTRAL CONDUCTORS SHALL BE INSULATED (BARE CONDUCTORS WILL NOT BE ALLOWED)
2. SUPPORT CABLE SHALL DOUBLE AS A BONDING CONDUCTOR WHEN TRIPLEX OR QUADRUPLEX ARE USED.
3. MAINTAIN MINIMUM 6m CONDUCTOR CLEARANCE OVER ROADWAY.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ENTRANCE INTO POLE FOR OVERHEAD CONDUCTORS

LIBRARY DRAWING ML-24
NOTE TO DESIGNER:
POLE & BACKGUYS LOADING AND POLE SPACING
MUST BE APPROVED BY MINISTRY ELECTRICAL
BRANCH PRIOR TO CONSTRUCTION

LUMINAIRE ARM
WHERE SPECIFIED

3/8"Ø GRADE 110 MEDIUM
HARD GALVANIZED GUY STRAND
SUPPORT CABLE

ENTRANCE CAP
(1&B 1525)

INSULATED CLEVIS
SEE ENTRANCE INTO POLE
FOR OVERHEAD CONDUCTOR
DETAIL.

TYPE 2 (6.5), 2 (8.5)
AND 2 (11) SHAFTS

EYE BOLT
PREFORMED GUY GRIP

TENSION BACKGUYS SO POLE
IS PLUMB UNDER FULL LOAD

3/8" Ø GRADE 110 MEDIUM
HARD GALVANIZED GUY STRAND

PREFORMED GUY GRIP
STRAIN INSULATOR
PREFORMED GUY GRIP

GUY GUARD
50’ x 2000’ LONG
PREFORMED GUY
GRIP OR
THREE BOLT CLAMP

3000
MINIMUM
2500
UNLESS NOTED
OTHERWISE

90kN (3/4"Ø) GALVANIZED
ANCHOR ROD
1900

0.16m² x 12 THICK GALVANIZED STEEL PLATE
ANCHOR OR 150Ø x 1800 LONG TREATED
CEDAR LOG INSTALLED HORIZONTALLY

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS
OTHERWISE NOTED.

LUMINAIRE POLE BACKGUYS
INSTALLATION DETAIL

SCALE 1:75

LIBRARY DRAWING ML-25