04 - EXTRUDED ALUMINUM SIGN PANEL

INDEX OF DRAWINGS

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EAS-03	EXTRUDED ALUMINUM SIGN PANEL MANUFACTURING DETAILS		

DESIGNED BY:

Stantec

STANTEC CONSULTING SERVICES INC.
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STATE OF CONNECTICUT
ANDREW M. LESSARD
Andrew Lessard
2018.06.06
16:07:15-04'00'

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 6/6/2018

DESIGNER/DRAFTER: **JRA**

CHECKED BY: **AML**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\EAS-01_SB_Extruded_Aluminum_Sign_Panel_Drawing_Index.dgn

SIGNATURE/ BLOCK:

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PROJECT TITLE:

REPLACEMENT OF HIGHWAY SIGNING ON ROUTE 8

TOWN: **BRIDGEPORT, TRUMBULL, SHELTON**

DRAWING TITLE: **INDEX OF DRAWINGS**

PROJECT NO. **173-441**

DRAWING NO. **EAS-01**

SHEET NO. **04.01**

PLAN

OVERHEAD MOUNTED SIGN PANEL

SCALE: 1/4" = 1'- 0"

ELEVATION - REAR FACE

OVERHEAD MOUNTED SIGN PANEL

SCALE: 1/4" = 1'- 0"

PLAN

SIDE MOUNTED SIGN PANEL

SCALE: 1/4" = 1'- 0"

ELEVATION - REAR FACE

SIDE MOUNTED SIGN PANEL

SCALE: 1/4" = 1'- 0"

NOTE:

THE EXTRUDED ALUMINUM SIGN PANELS SHALL BE CONNECTED TOGETHER WITH PANELS BOLTS INSTALLED IN ACCORDANCE WITH THE SPACING CRITERIA SHOWN. IF THE PANEL BOLTS CANNOT BE INSTALLED DUE TO MISALIGNED HOLES, A NEW HOLE(S) SHALL BE INSTALLED IN THE FLANGE OF THE EXTRUDED PANEL. THE NEW HOLE(S) SHALL BE A MINIMUM OF 2" (50 mm) FROM ANY EXISTING PANEL BOLT HOLES.

SIGN PANEL CONNECTION DETAILS (A -)

SCALE: 1 1/2" = 1'-0"

PLAN - PANEL BOLT (C -)

SCALE: 1 1/2" = 1'-0"

SECTION - SIGN PANEL CONNECTION (B -)

SCALE: 6" = 1'-0"

SECTION - DOUBLE PANELS (D -)

SCALE: 1 1/2" = 1'-0"

V.2010.05.19

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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SCALE AS NOTED

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PROJECT TITLE:
REPLACEMENT OF HIGHWAY SIGNING ON ROUTE 8

TOWN:
BRIDGEPORT, TRUMBULL, SHELTON

DRAWING TITLE:
EXTRUDED ALUMINUM SIGN PANEL CONNECTION DETAILS

PROJECT NO. 173-441
DRAWING NO. EAS-02
SHEET NO. 04.02

PLAN

ELEVATION

POST CLIP DETAIL E -

FULL SCALE

6" (150 mm) EXTRUDED PANEL F -

SCALE: 6" = 1-0'

ALTERNATE A

ALTERNATE B

12" (305 mm) EXTRUDED PANEL G -

SCALE: 6" = 1-0'

DETAIL H -

SCALE: 3 X FULL SCALE

DETAIL I -

SCALE: 3 X FULL SCALE

NOTES

THE EXTRUDED PANELS SHALL CONFORM TO THE REQUIREMENTS ASTM B221, ALLOY 6063-T6 AND THE FOLLOWING SECTION PROPERTIES:

SECTION	AREA OF SECTION in^2 (mm^2)	WT. / FT. LBS. / FT. (KG / M)	I_{X-X} in^4 (mm^4)	I_{Y-Y} in^4 (mm^4)
6" (150 mm) EXTRUDED PANEL	0.933 (601.93)	1.13 (0.16)	5.023 (2,090,730)	0.473 (196,877)
12" (305 mm) EXTRUDED PANEL ALTERNATE A	2.237 (1,443.22)	2.72 (0.38)	36.284 (15,102,541)	0.941 (391,674)
12" (305 mm) EXTRUDED PANEL ALTERNATE B	2.091 (1,349.03)	2.54 (0.35)	38.947 (16,210,965)	1.183 (492,402)

THE PANEL BOLTS SHALL CONFORM TO ASTM A193, CLASS 1, GRADE B8 (TYPE 304). THE NUTS SHALL BE A COMPATIBLE HEX, PREVAILING TORQUE (NYLON INSERT) LOCK NUTS CONFORMING TO ASTM A194, CLASS 1, GRADE B8 (TYPE 304). THE WASHERS SHALL BE A COMPATIBLE, FLAT, CIRCULAR WASHERS CONFORMING TO ASTM A276, TYPE 304, ANNEALED.

THE POST CLIP ASSEMBLY SHALL COMPOSED OF A POST CLIP AND A BOLT WITH A NUT AND WASHER. THE POST CLIP SHALL CONFORM TO THE REQUIREMENTS OF ASTM B26, ALLOY 356.0-T6. THE POST BOLT SHALL BE A $^3/_8$" DIA. X $1^3/_4$" LONG (9 mm DIA. X 44 mm LONG) RECTANGULAR HEAD BOLT CONFORMING TO ASTM A193, CLASS 1, GRADE B8 (TYPE 304). THE NUT SHALL BE A COMPATIBLE HEX, PREVAILING TORQUE (NYLON INSERT) LOCK NUT CONFORMING TO ASTM A194, CLASS 1, GRADE B8 (TYPE 304). THE WASHER SHALL BE A COMPATIBLE, FLAT, CIRCULAR WASHER CONFORMING TO ASTM A276, TYPE 304, ANNEALED. THE DIMENSIONS OF THE RECTANGULAR BOLT HEAD SHALL BE SUCH THAT IT WILL FIT INTO THE EXTRUDED PANEL SLOT AND WILL NOT ROTATE WHILE THE NUT IS BEING TURNED.

THE COST OF FURNISHING AND INSTALLING THE EXTRUDED ALUMINUM SIGN AND CROWN PANELS, INCLUDING THE PANELS BOLTS AND POST CLIP ASSEMBLIES, SHALL BE PAID FOR UNDER THE ITEM "SIGN FACE - EXTRUDED ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING)".

V.2010.05.19

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SCALE AS NOTED

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Filename: ...\EAS-03_SB_ExtrudedAlSignPanel_ManufacturingDetails.dgn

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PROJECT TITLE:
REPLACEMENT OF HIGHWAY SIGNING ON ROUTE 8

TOWN: **BRIDGEPORT, TRUMBULL, SHELTON**

DRAWING TITLE: **EXTRUDED ALUMINUM SIGN PANEL MANUFACTURING DETAILS**

PROJECT NO. 173-441
DRAWING NO. EAS-03
SHEET NO. 04.03