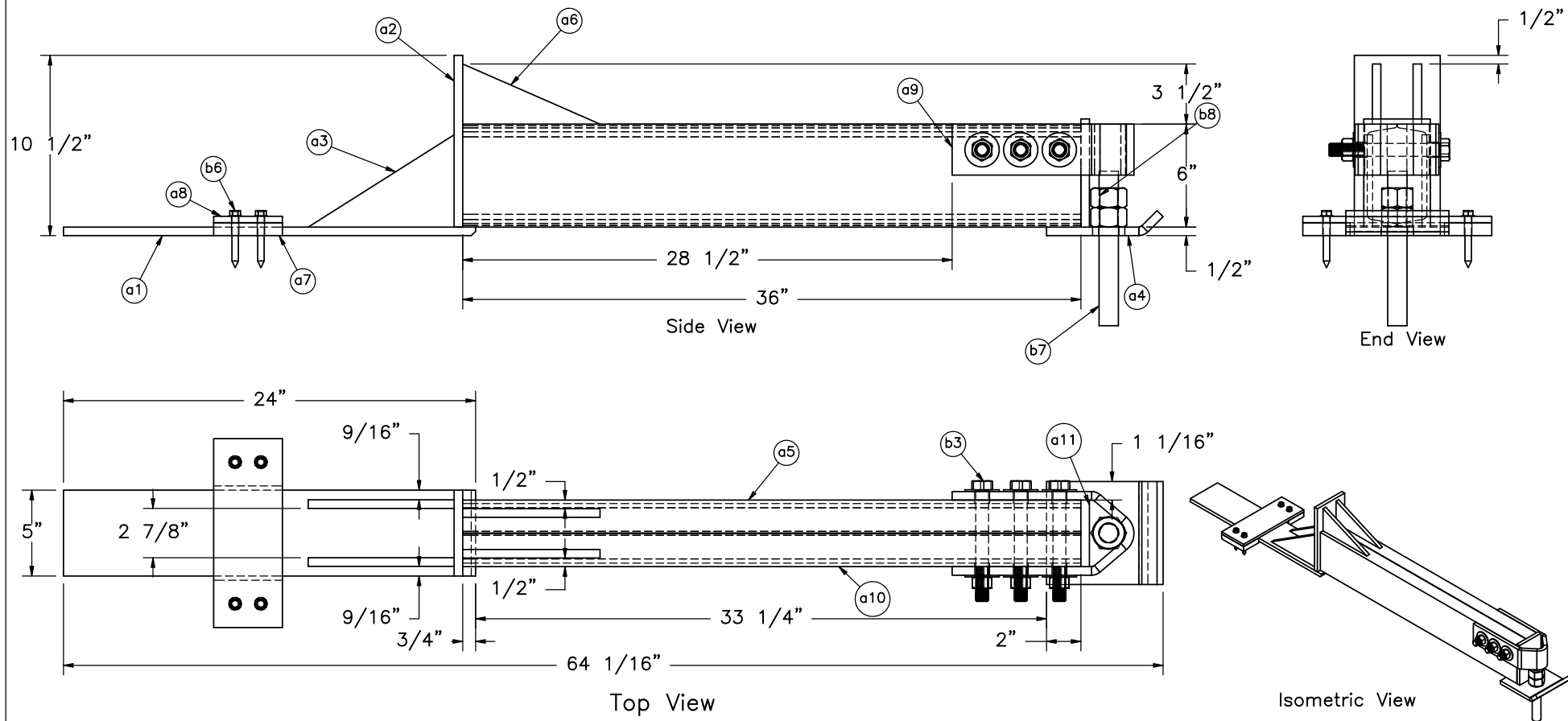




Note: (1) Shims (a12) may be added to assembly as shown to make test article snug. Dimensions as follows: minimum height 6 1/4 in., maximum width 3 1/8 in., and maximum thickness 5/8 in. or to snug secure fit. Shims can be multiple pieces and should extend outward to strap.



Epoxy Anchor Testing

Epoxy Anchor Jig

DWG. NAME:
EpoxyAnchor_shear_R3

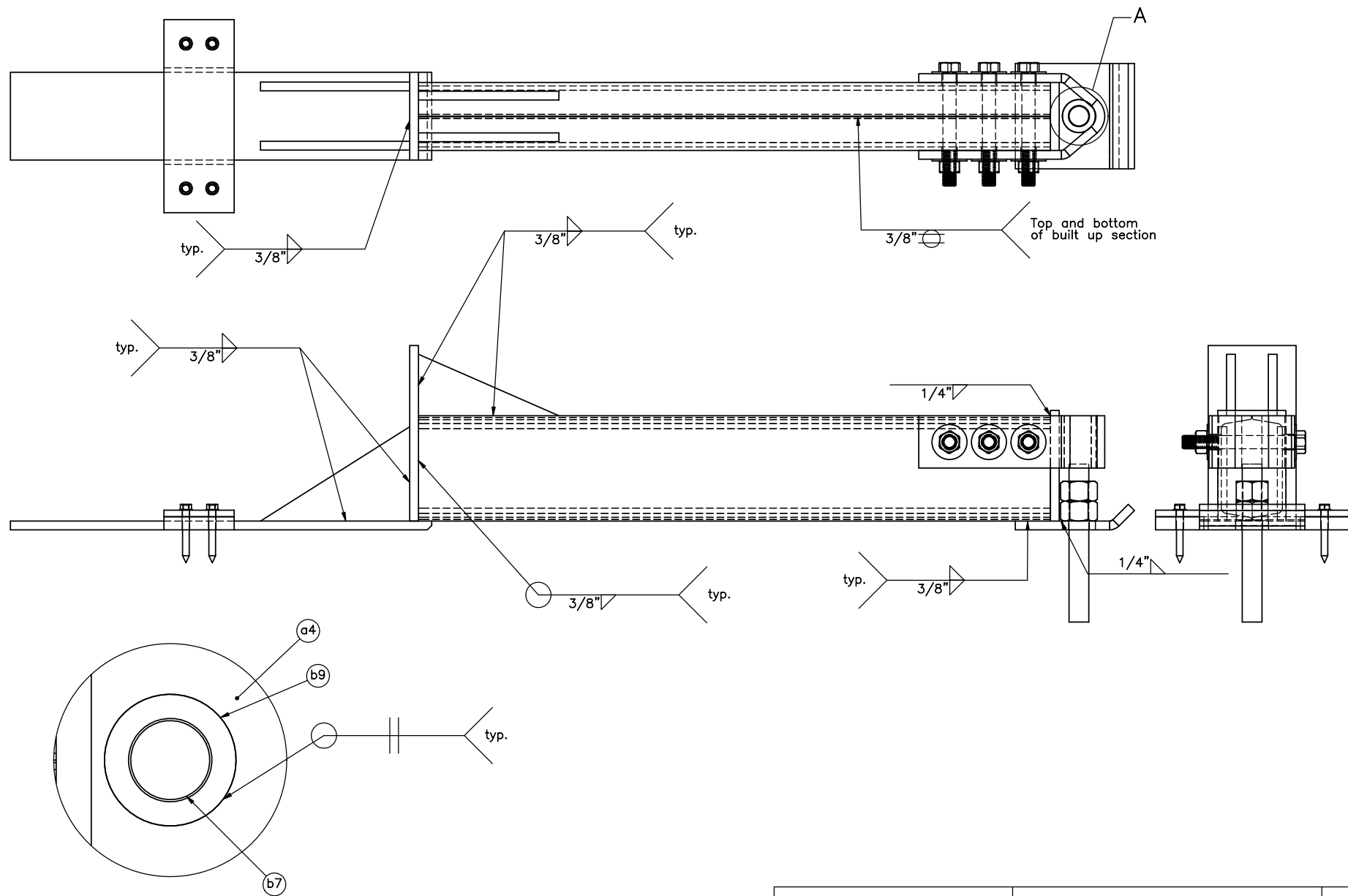
SCALE: None
UNITS: Inches

SHEET:
1 of 11

DATE:
05/12/2011

DRAWN BY:
JGP

REV. BY:
RWB



DETAIL A
SCALE 1 : 2

Note: (1) Plug inserted into skidplate must be welded in place with center drilled to 1 3/16\" diameter.



Midwest Roadside
Safety Facility

Epoxy Anchor Testing
Weld Detail

DWG. NAME.
EpoxyAnchor_shear_R3

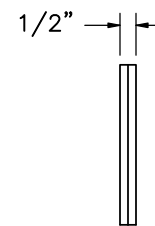
SCALE: None
UNITS: Inches

SHEET:
2 of 11
DATE:
05/12/2011
DRAWN BY:
JGP

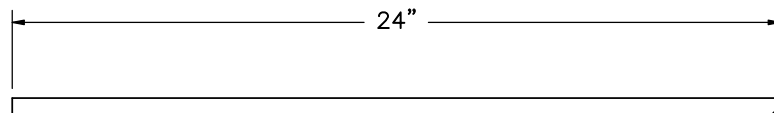
REV. BY:
RWB



Top View

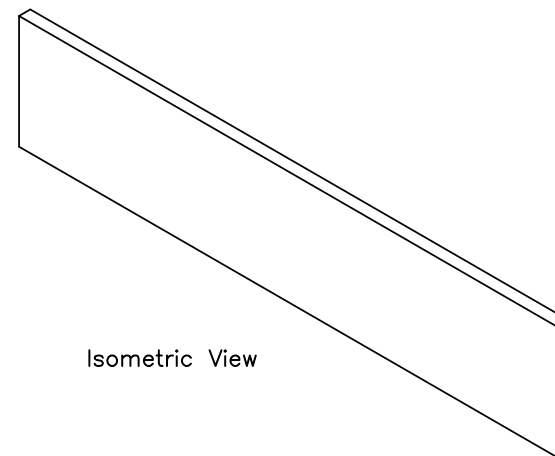


End View



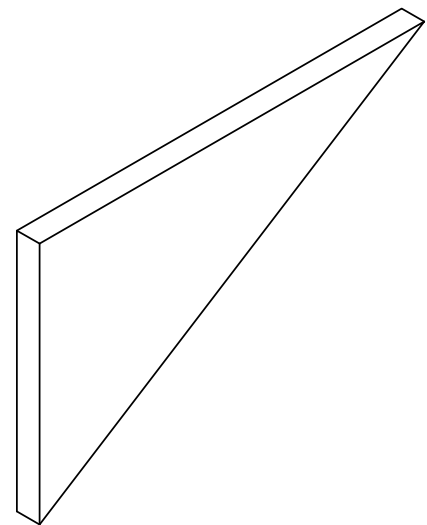
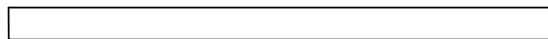
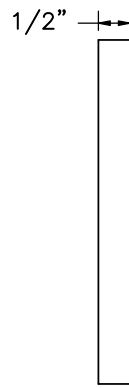
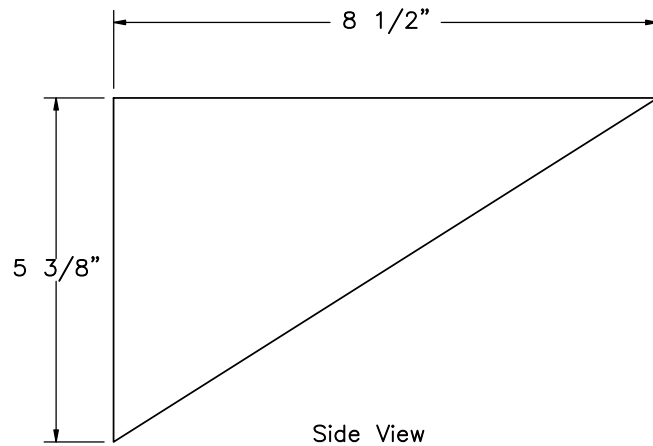
Side View

Bevel edge 1/4"

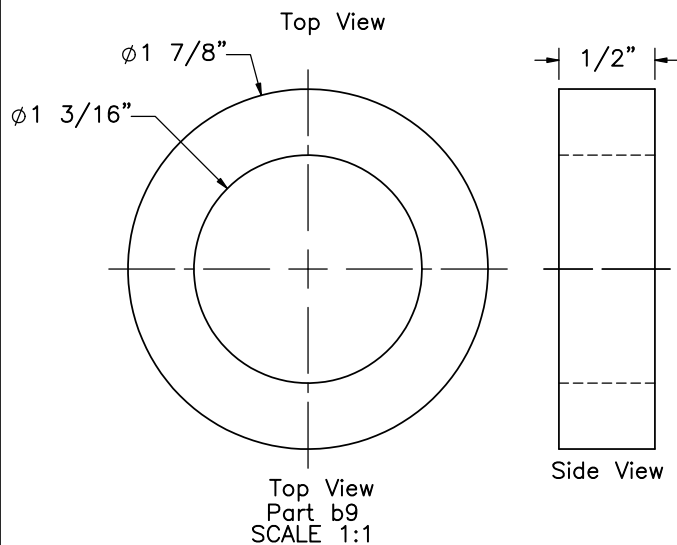
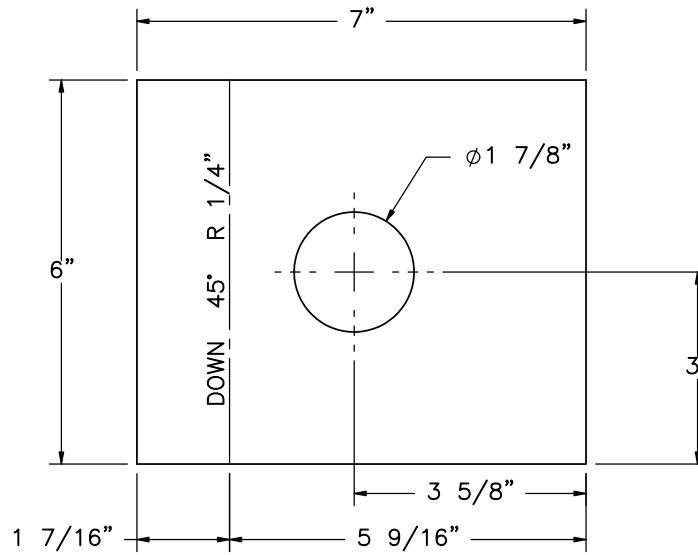
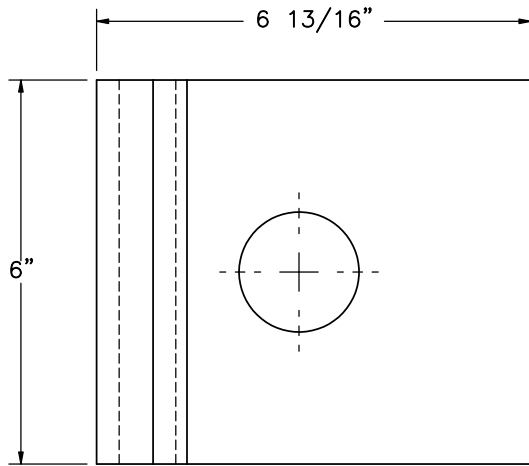
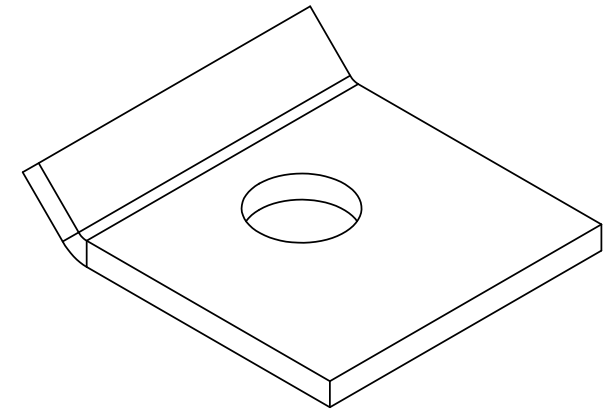
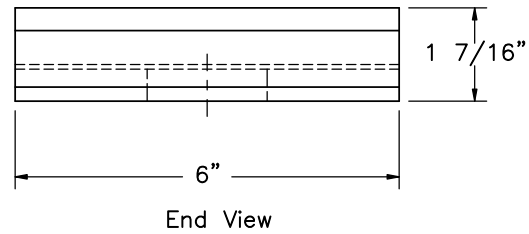
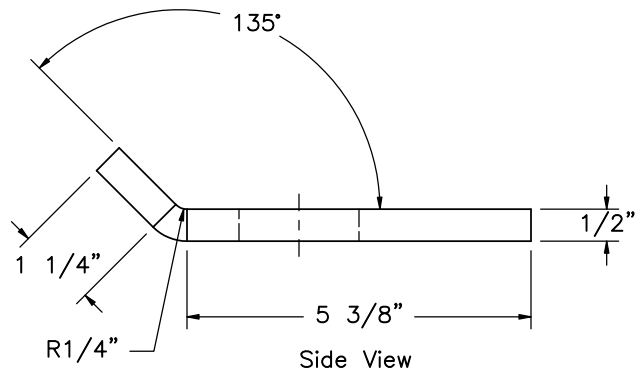


Isometric View

	Epoxy Anchor Testing		SHEET: 3 of 11
	Base Plate		DATE: 05/12/2011
Midwest Roadside Safety Facility	DWG. NAME: EpoxyAnchor_shear_R3	SCALE: 1:6 UNITS: Inches	DRAWN BY: JGP
			REV. BY: RWB



	Epoxy Anchor Testing		SHEET: 4 of 11
	Front Gusset		DATE: 05/12/2011
Midwest Roadside Safety Facility	DWG. NAME: EpoxyAnchor_shear_R3		DRAWN BY: JGP
	SCALE: 1:3 UNITS: Inches		REV. BY: RWB



Midwest Roadside
Safety Facility

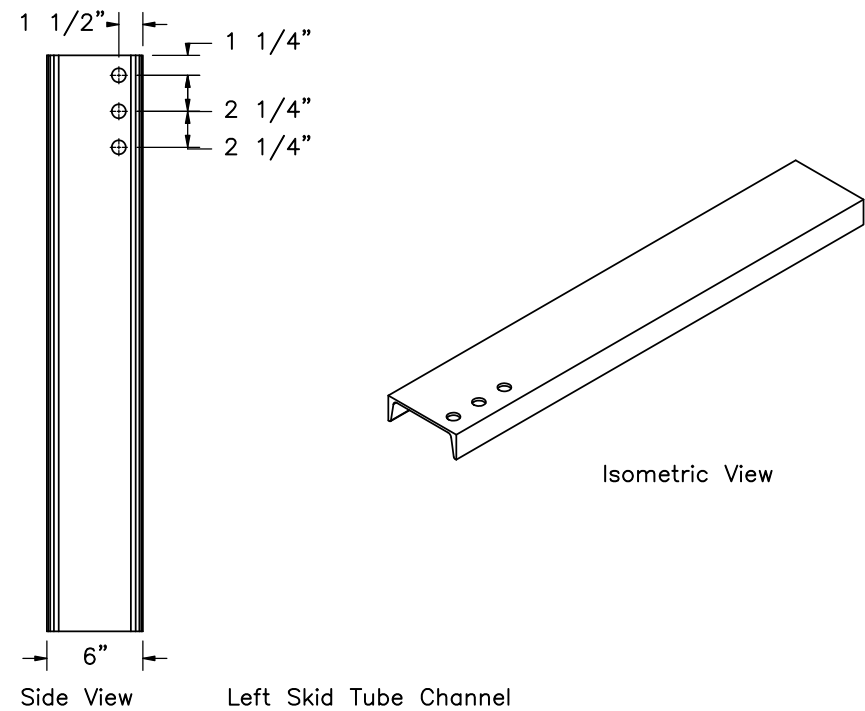
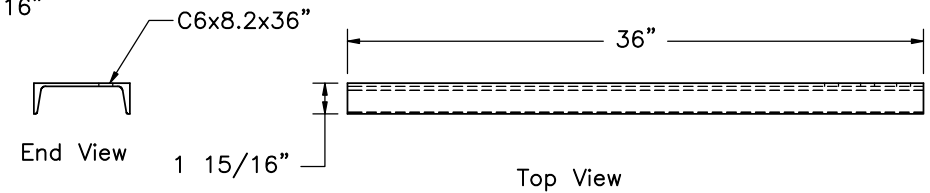
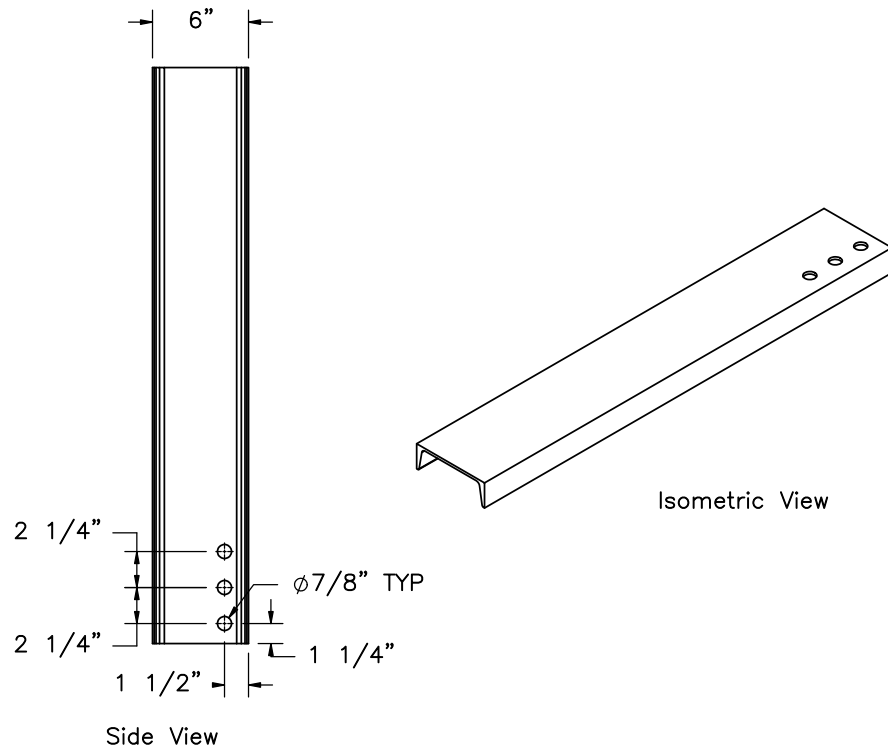
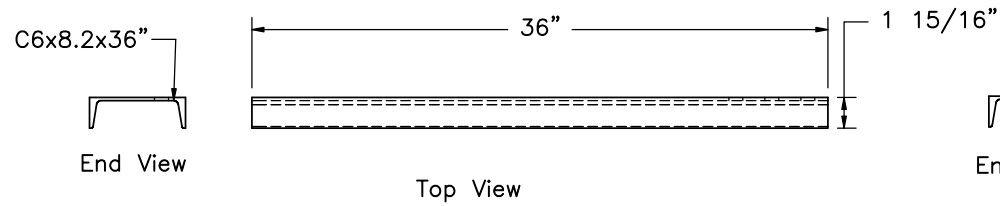
Epoxy Anchor Testing
Skid Plate

DWG. NAME.
EpoxyAnchor_shear_R3

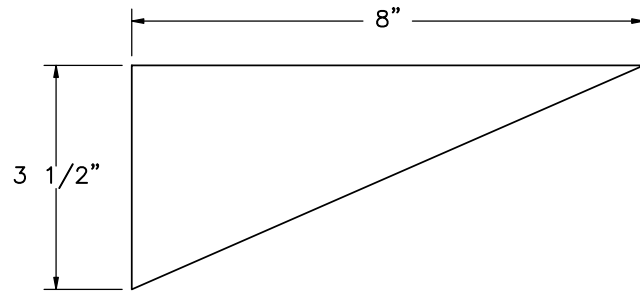
SCALE: 1:3
UNITS: Inches

SHEET:
5 of 11
DATE:
05/12/2011
DRAWN BY:
JGP

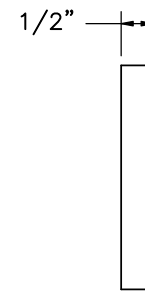
REV. BY:
RWB



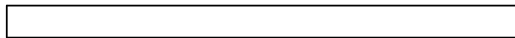
	Epoxy Anchor Testing		SHEET: 6 of 11
	Skid Tube Channel		DATE: 05/12/2011
Midwest Roadside Safety Facility	DWG. NAME: EpoxyAnchor_shear_R3		DRAWN BY: JGP
	SCALE: 1:12 UNITS: Inches		REV. BY: RWB



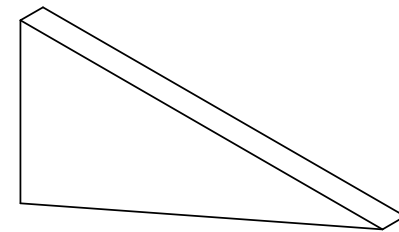
Side View



End View

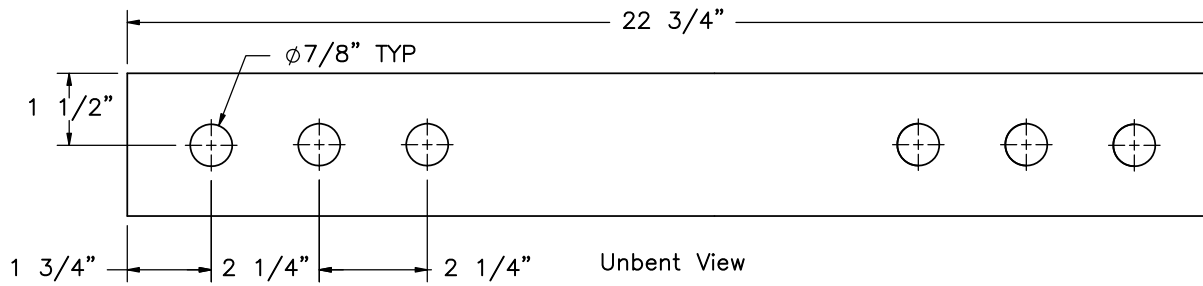
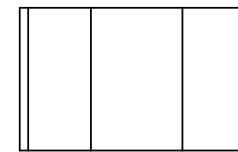
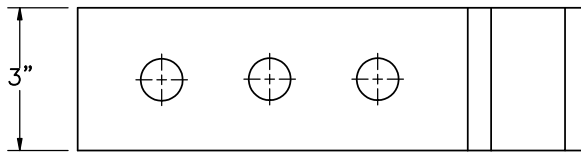
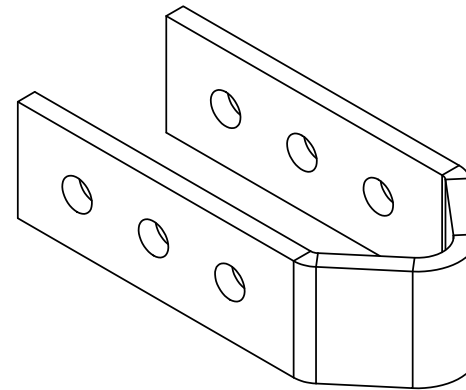
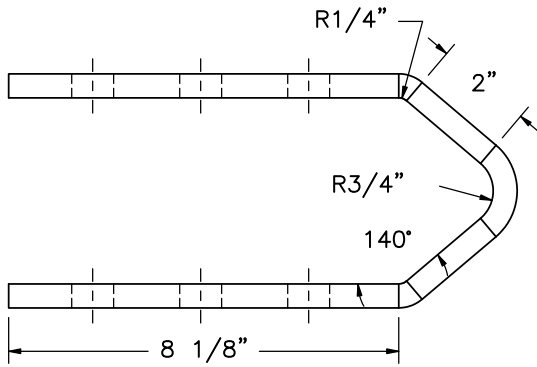


Top View



Isometric View

	Epoxy Anchor Testing Top Gusset		SHEET: 7 of 11
			DATE: 05/12/2011
Midwest Roadside Safety Facility	DWG. NAME: EpoxyAnchor_shear_R3		DRAWN BY: JGP
			REV. BY: RWB
		SCALE: None UNITS: Inches	



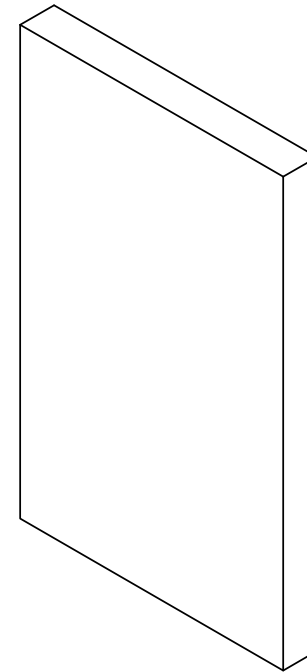
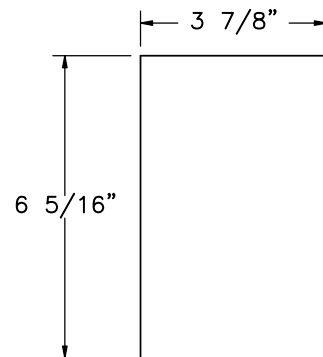
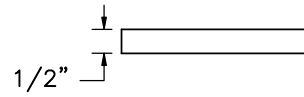
Epoxy Anchor Testing
Coupler Strap

DWG. NAME.
EpoxyAnchor_shear_R3

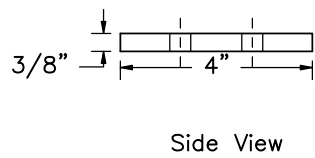
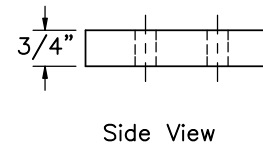
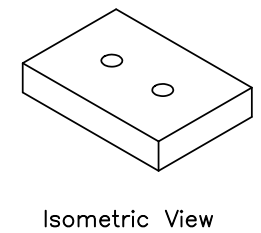
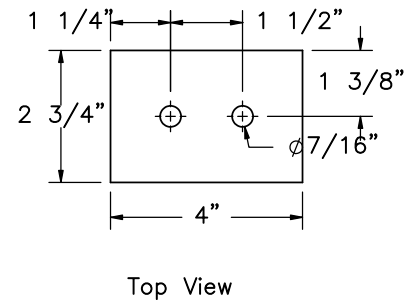
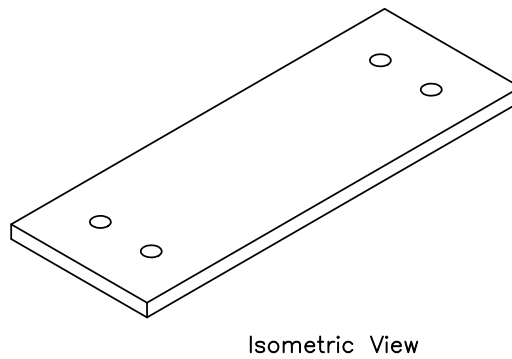
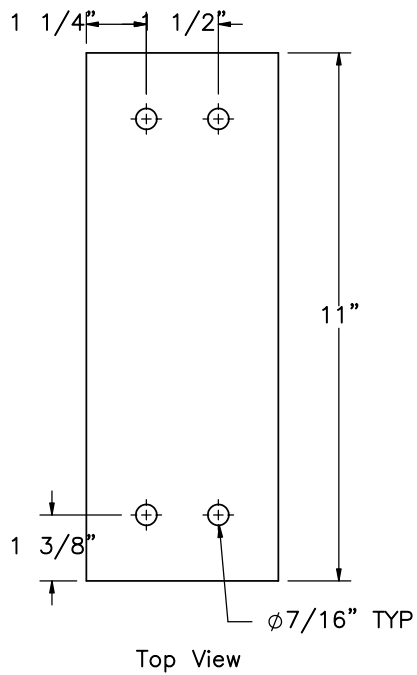
SCALE: None
UNITS: Inches

SHEET:
8 of 11
DATE:
05/12/2011
DRAWN BY:
JGP

REV. BY:
RWB



	Epoxy Anchor Testing 0.5" End Plate		SHEET: 9 of 11
			DATE: 05/12/2011
Midwest Roadside Safety Facility	DWG. NAME: EpoxyAnchor_shear_R3		DRAWN BY: JGP
			REV. BY: RWB
SCALE: None UNITS: Inches			



	Epoxy Anchor Testing		SHEET: 10 of 11
	Fixture Guide		DATE: 05/12/2011
Midwest Roadside Safety Facility	DRAWN BY: JGP		REV. BY:
	DWG. NAME: EpoxyAnchor_shear_R3	SCALE: 1:4 UNITS: Inches	RWB

Epoxy Anchor Shear test Fixture			
Item No.	QTY.	Description	Material Spec
a1	1	Base Plate 24x5x0.5	ASTM A36
a2	1	Vertical Plate 10x4x0.5	ASTM A36
a3	2	Front Gusset 5.375x8.5x0.5	ASTM A36
a4	1	Skid Plate 6x7x0.5	ASTM A36
a5	1	Right Skid Tube Channel C6x8.2x36	ASTM A36
a6	2	Top Gusset 3.5x8x0.5	ASTM A36
a7	2	Fixture Guide Lower Plate 2.75x4x0.75	ASTM A36
a8	1	Fixture Guide Upper Plate 11x4x0.375	ASTM A36
a9	1	Coupler Strap 22.75x3x0.5	ASTM A36
a10	1	Left Skid Tube Channel C6x8.2x36	ASTM A36
a11	1	End Plate 3.875x6.3125x0.5	ASTM A36
a12	1	Shims	Steel
b3	3	Hex Head Bolt 0.7500-10x6.5x2-N	Grade 5
b4	6	Flat Washer 0.75	Grade 5
b5	3	Hex Nut 0.75	Grade 5
b6	4	Concrete Screw 3/8"x3"	Tapcon Concrete Screw
b7	1	1 1/8" [29] dia. Threaded Rod	A307
b8	2	1 1/8" [29] Heavy Hex Nut	A563 DH
b9	1	1 7/8" [48] Dia. Plate 1/2" [13] thick	ASTM A36



Midwest Roadside
Safety Facility

Epoxy Anchor Testing
Bill of Materials

DWG. NAME.
EpoxyAnchor_shear_R3

SCALE: None
UNITS: Inches

SHEET:
11 of 11
DATE:
05/12/2011
DRAWN BY:
JGP
REV. BY:
RWB