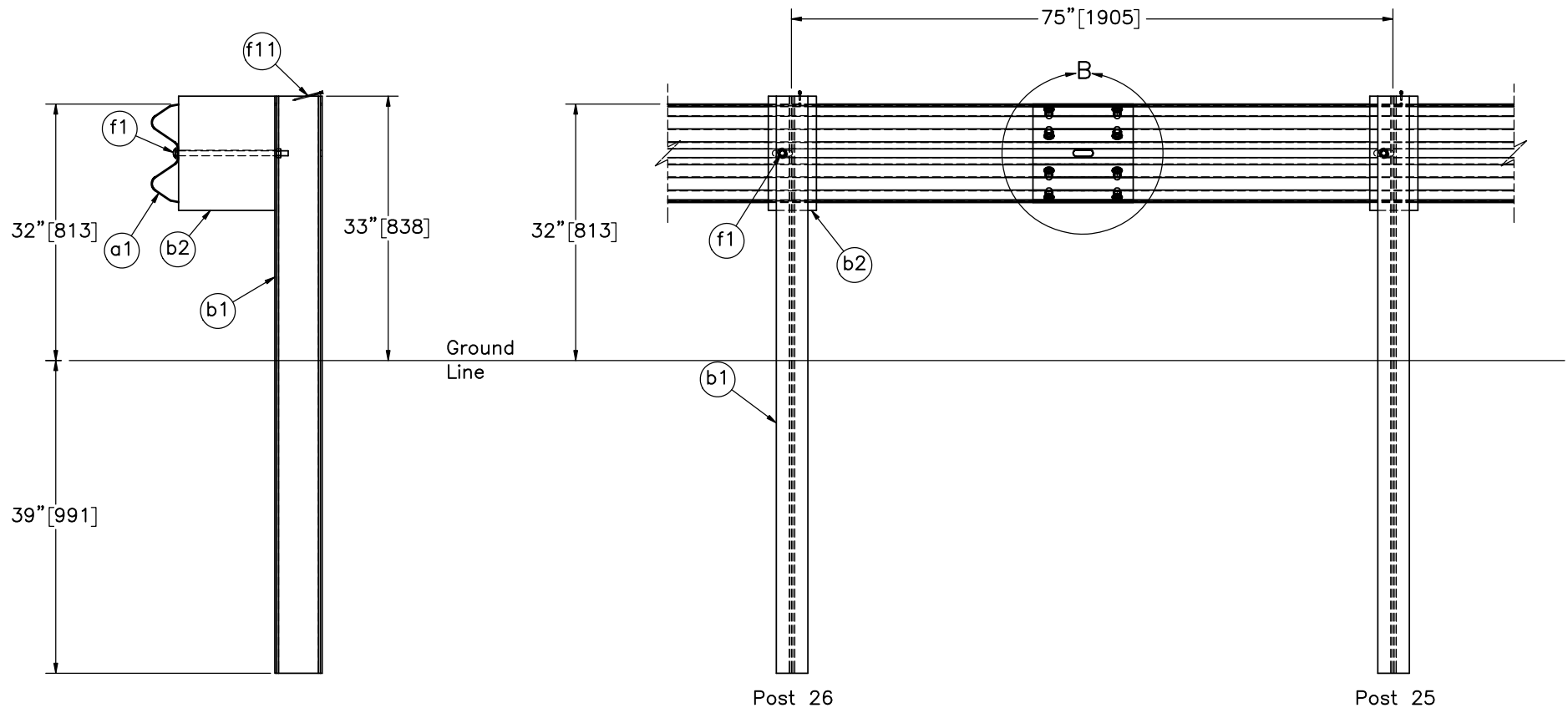
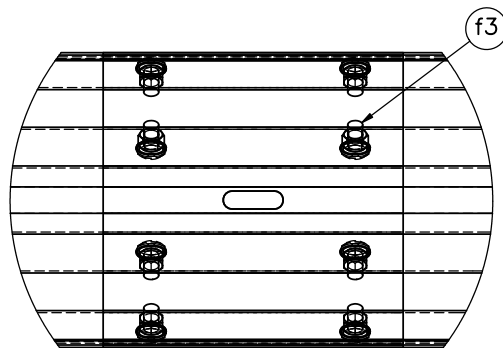




SECTION A-A

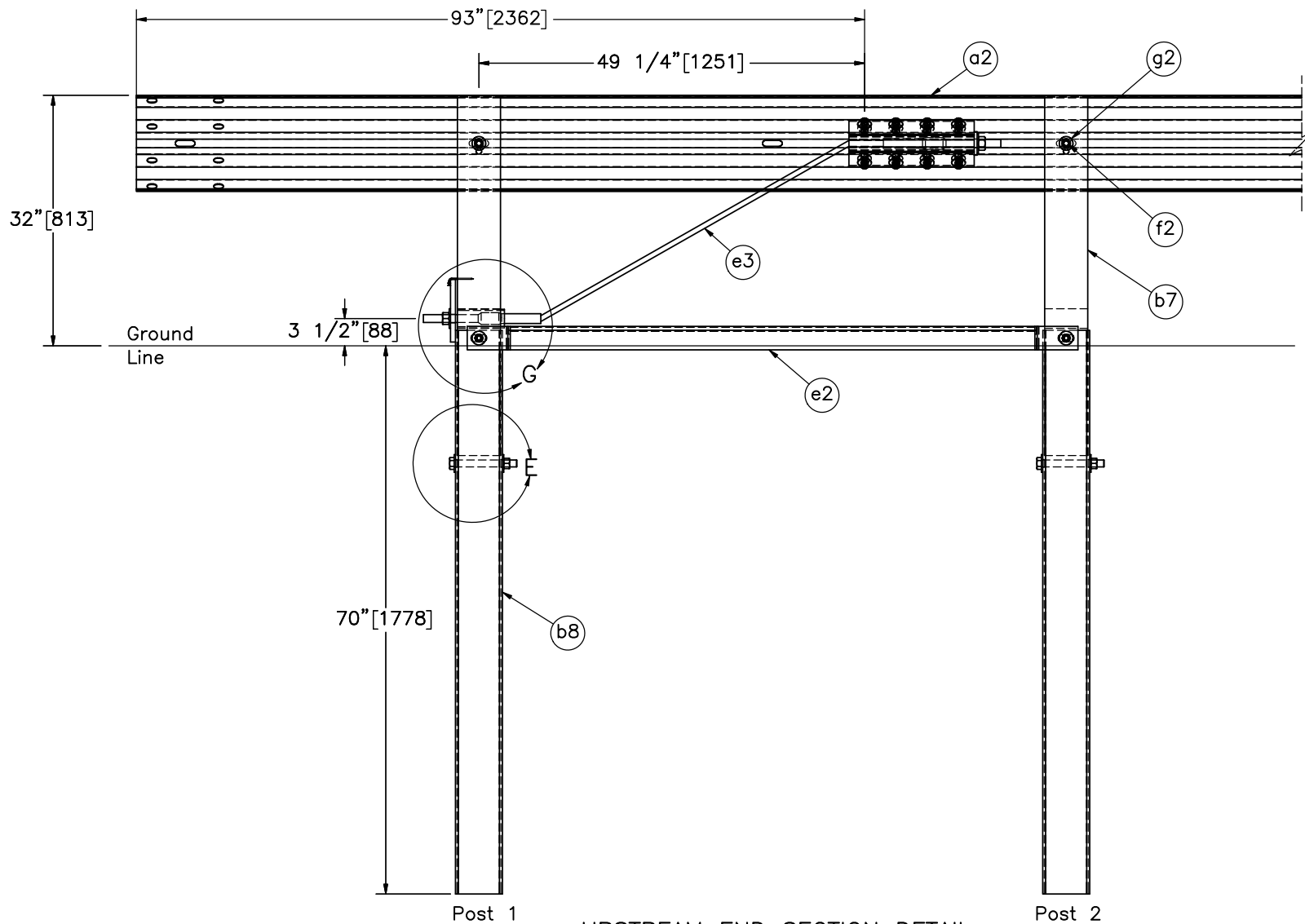
SPlice DETAIL
BACKSIDE



DETAIL B
SCALE 1:8

Note: (1) Guardrail bolts (part f1) on the upstream side of the web.

	Steel Post Terminal Anchorage		SHEET: 2 of 26
	Test No. SPTA-2		DATE: 8/21/2020
Midwest Roadside Safety Facility	Splice & Post Detail		DRAWN BY: JEK/SBW
	DWG. NAME: SPTA-2_R5	SCALE: 1:20 UNITS: In.[mm]	REV. BY: KAL



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Upstream End Section Detail

DWG. NAME.
SPTA-2_R5

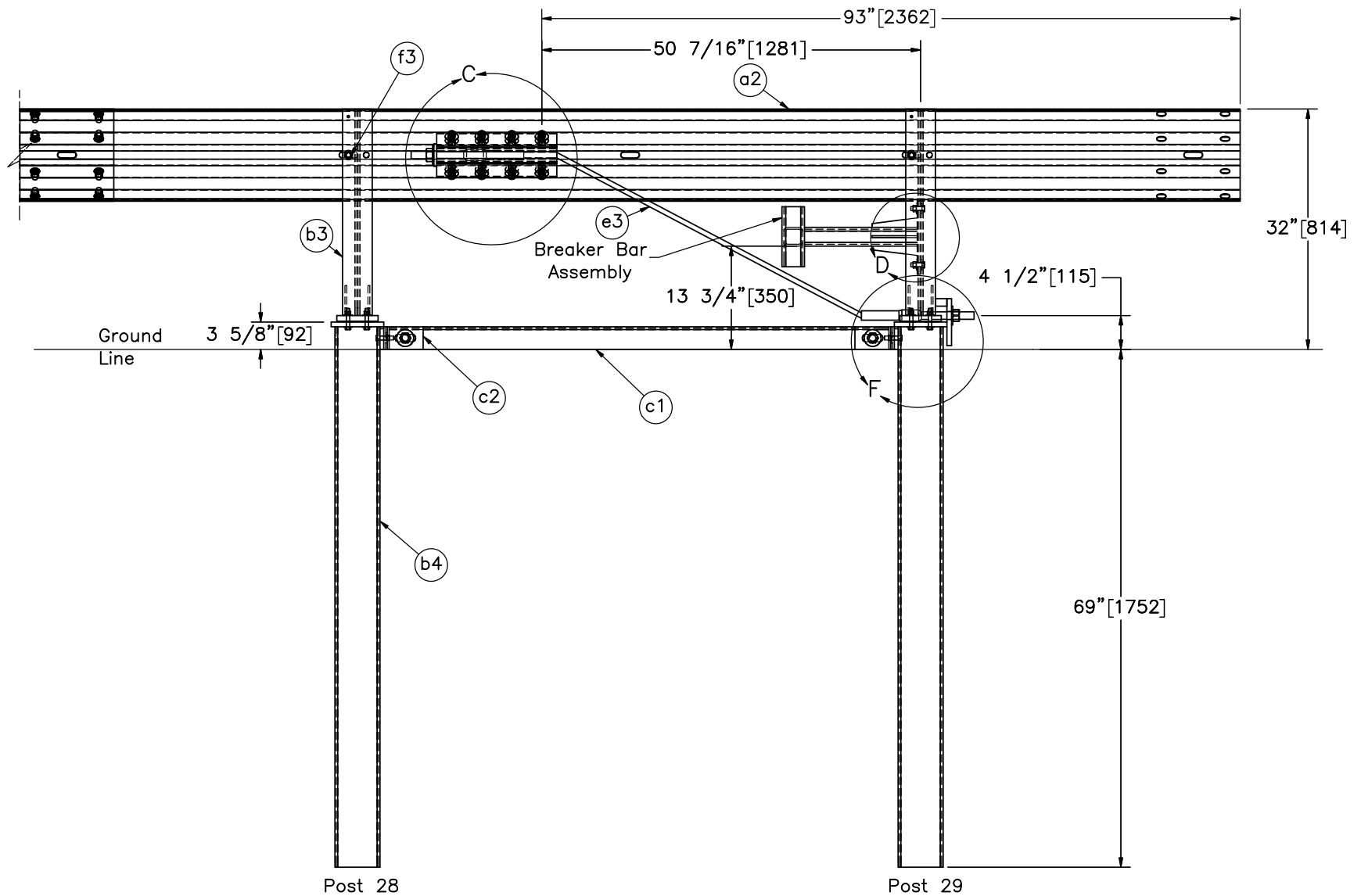
SCALE: 1:20
UNITS: In.[mm]

SHEET:
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DATE:
8/21/2020

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KAL



DOWNSTREAM END SECTION DETAIL
BACKSIDE



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Downstream End Section Detail

DWG. NAME.
SPTA-2_R5

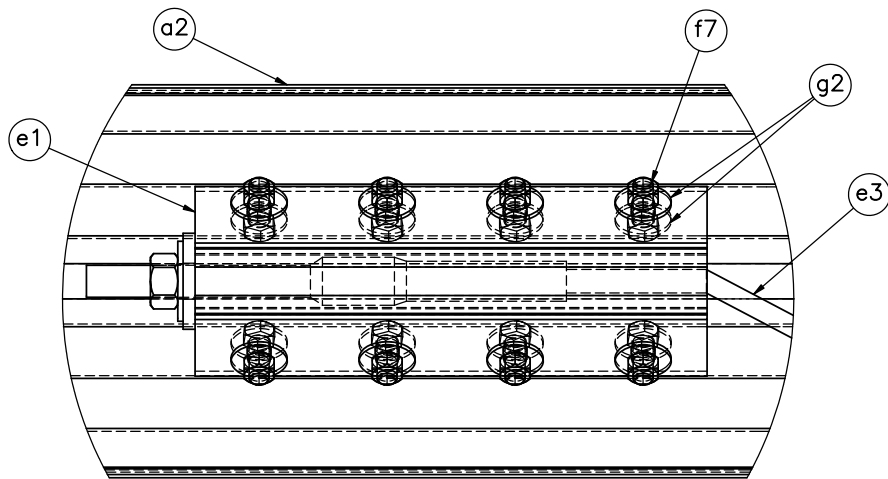
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SHEET:
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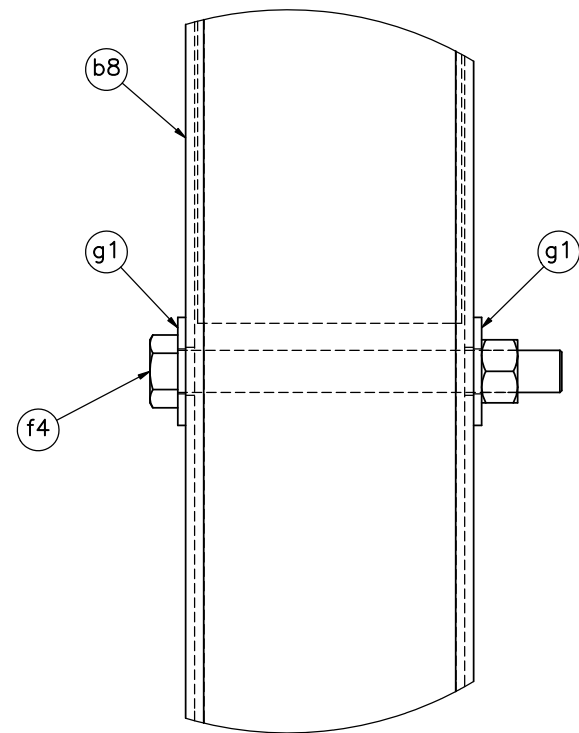
DATE:
8/21/2020

DRAWN BY:
JEK/SBW

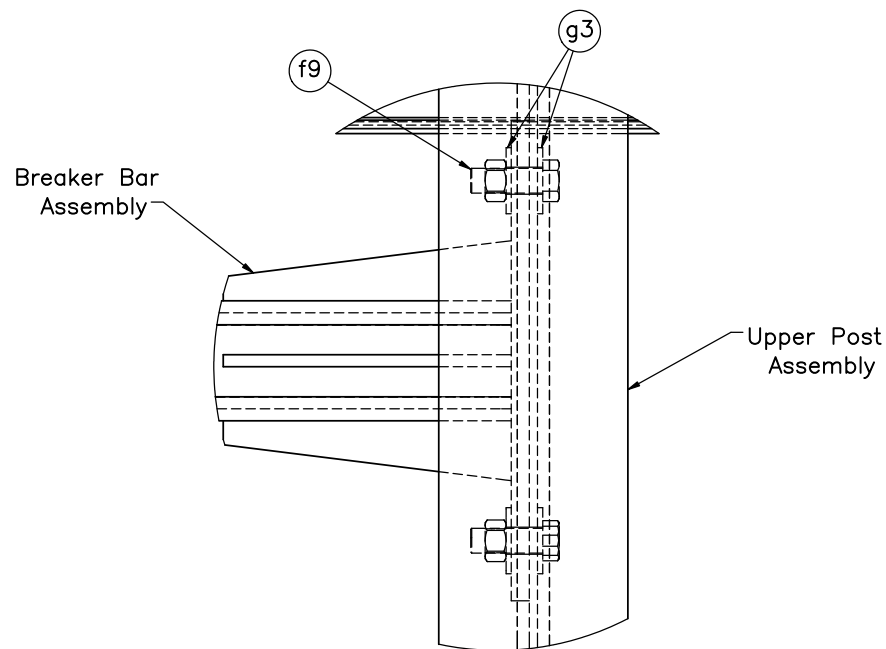
REV. BY:
KAL



DETAIL C
SCALE 1:6



DETAIL E



DETAIL D



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

End Section Details

DWG. NAME.
SPTA-2_R5

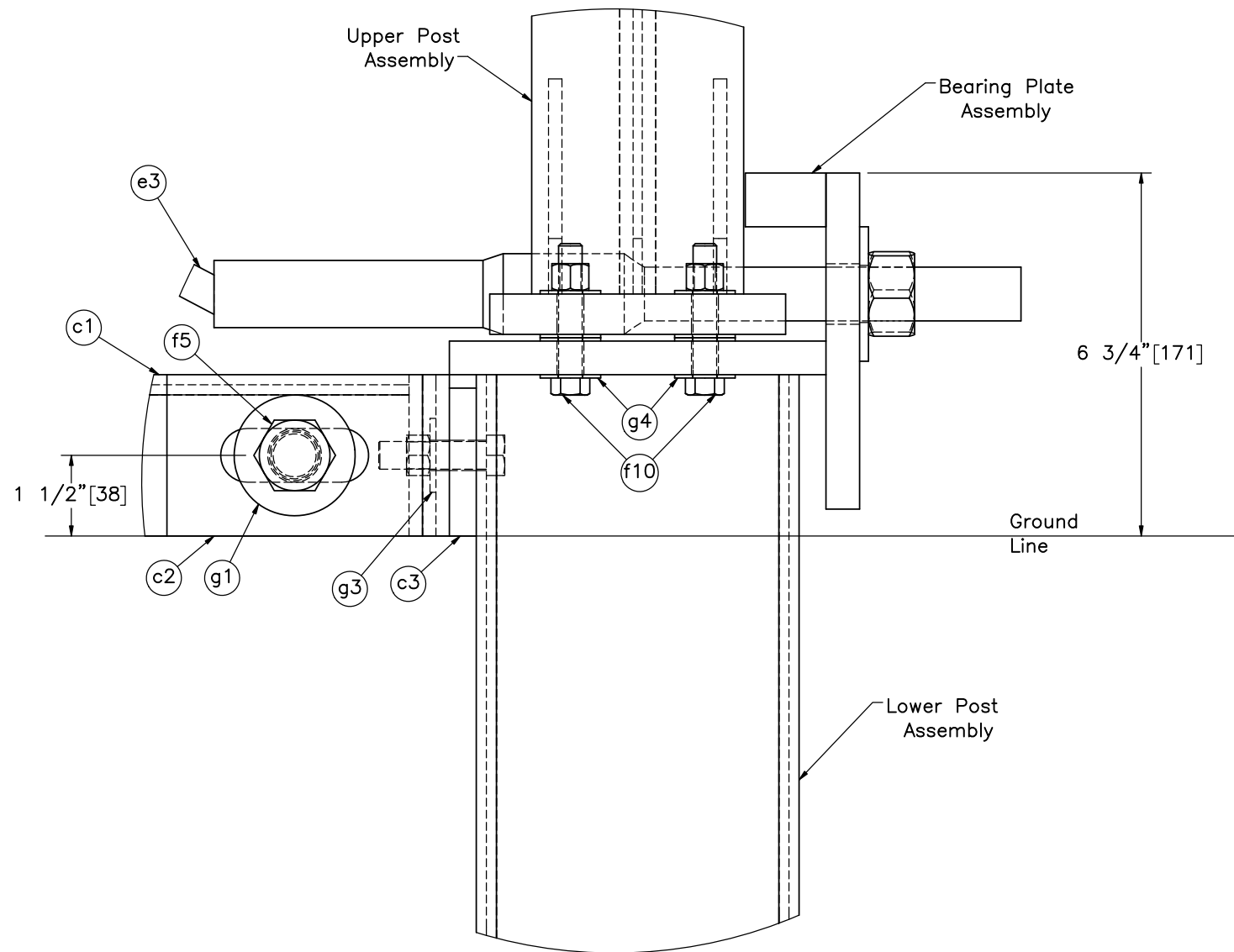
SCALE: 1:4
UNITS: In.[mm]

SHEET:
5 of 26

DATE:
8/21/2020

DRAWN BY:
JEK/SBW

REV. BY:
KAL



DETAIL F

Note: Additional washer (part g1) on the opposite side under head of bolt or nut (part f5).



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Downstream End Section Detail

DWG. NAME.
SPTA-2_R5

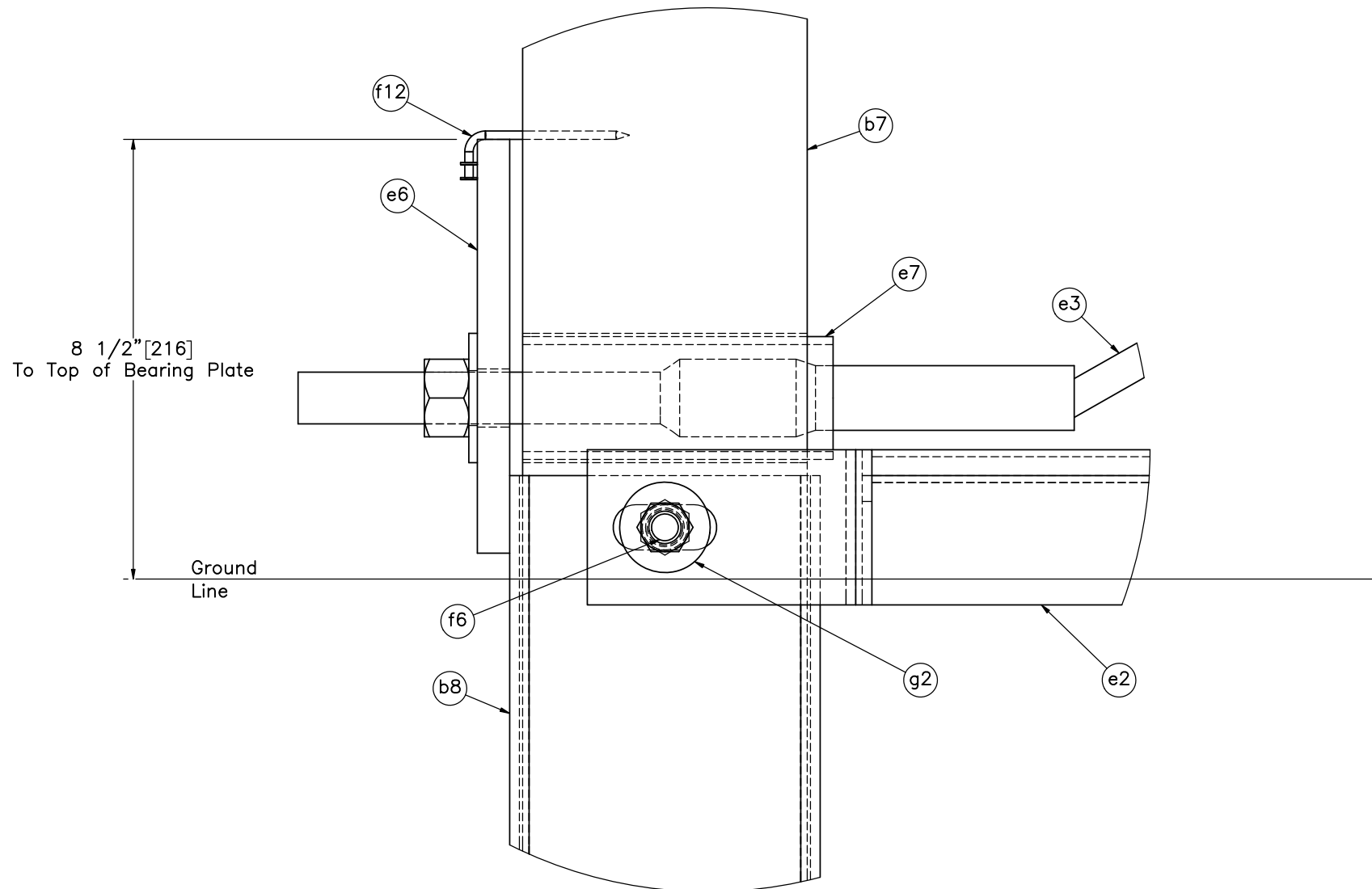
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UNITS: In.[mm]

SHEET:
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DATE:
8/21/2020

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KAL



DETAIL G

Note: (1) Additional washer (part g2) on the opposite side under head of bolt or nut (part f6).



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Upstream End Section Detail

DWG. NAME.
SPTA-2_R5

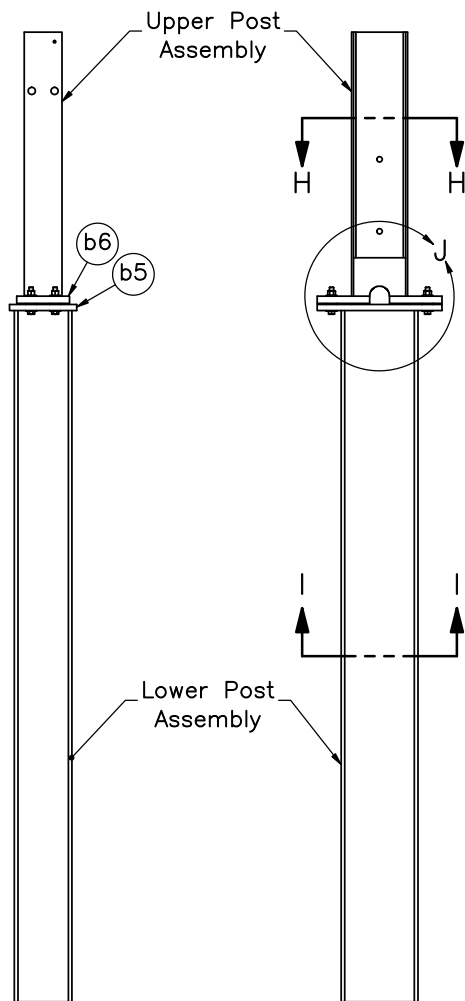
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SHEET:
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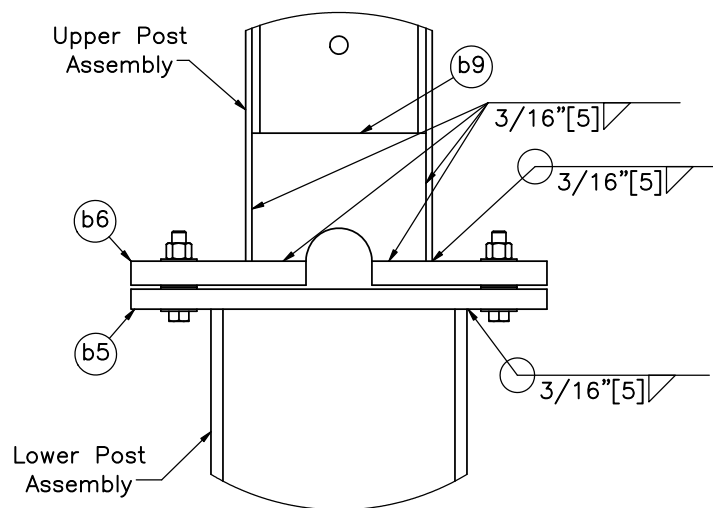
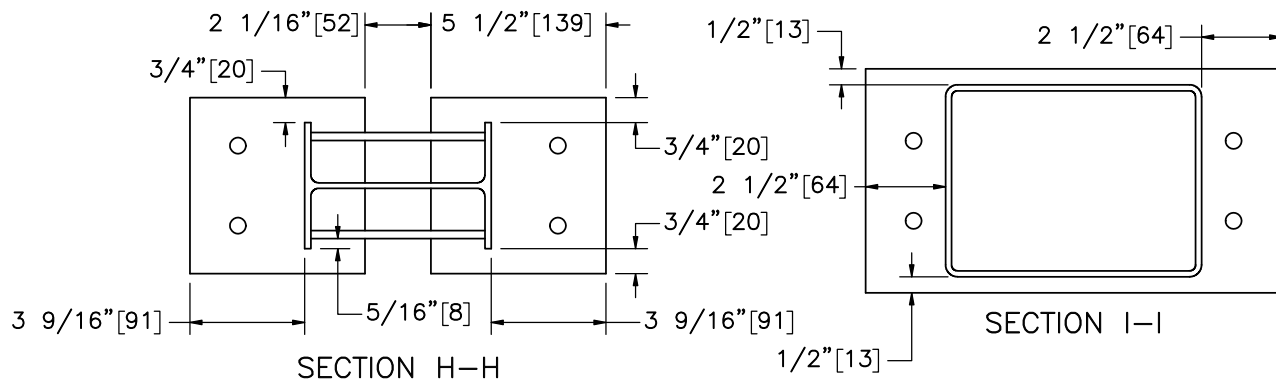
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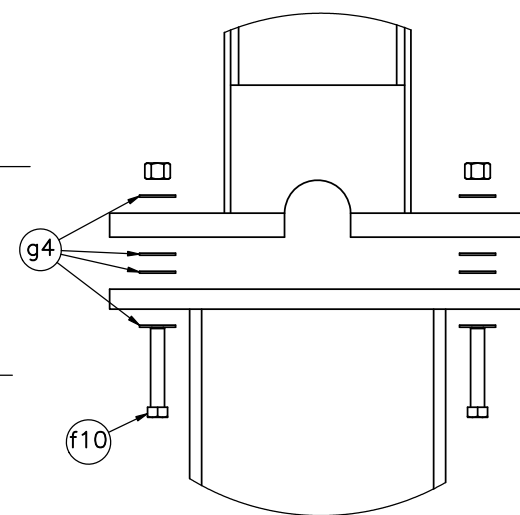
REV. BY:
KAL



ELEVATION VIEW PROFILE VIEW
SCALE 1:20



DETAIL J



DETAIL J (EXPLODED)

- Notes:
- (1) Connection hardware hidden in Sections H and I for clarity.
 - (2) Lower post assembly hidden in Section H for clarity.
 - (3) Vertical through-bolts (part f10) are to be torqued to approximately 60–75 ft-lb [81.3–101.7 N-m].



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Downstream Anchor Post
Assembly

DWG. NAME:
SPTA-2_R5

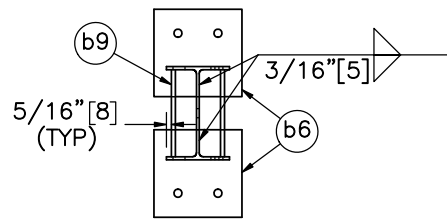
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SHEET:
8 of 26

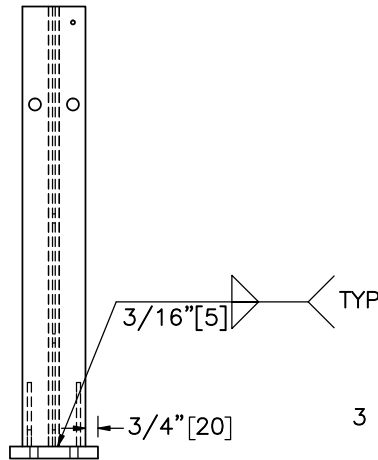
DATE:
8/21/2020

DRAWN BY:
JEK/SBW

REV. BY:
KAL

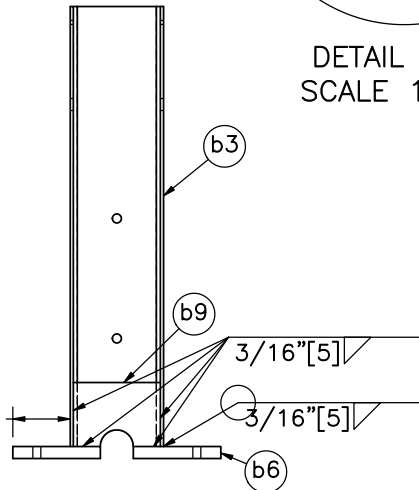


PLAN VIEW

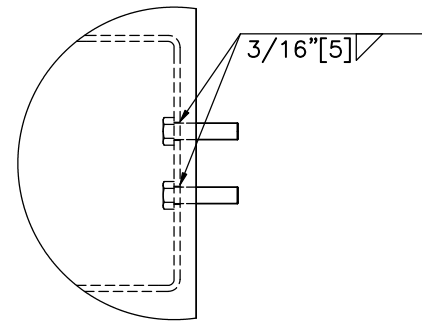


ELEVATION VIEW

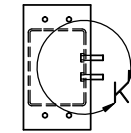
Upper Post Assembly



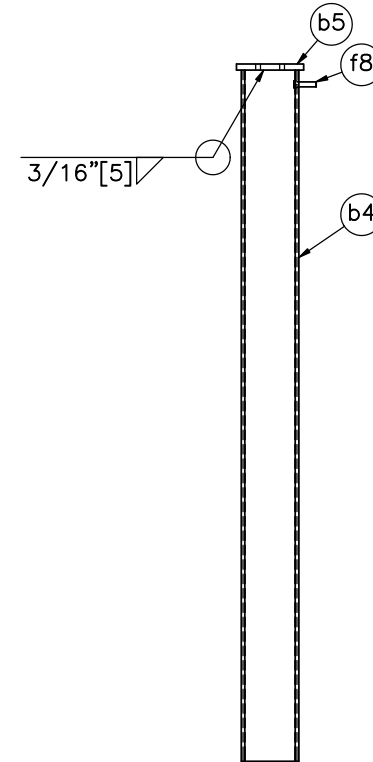
PROFILE VIEW



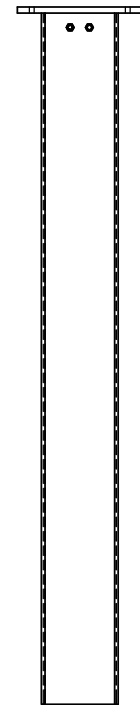
DETAIL K
SCALE 1:6



PLAN VIEW



ELEVATION VIEW



PROFILE VIEW

Lower Post Assembly

Item No.	QTY.	Description	Material Specification	Treatment Specification	Hardware Guide
—	2	Lower Post Assembly	—	ASTM A123	—
b4	1	TS 8"x6"x3/16" [203x152x5], 72" [1,829] Long Foundation Tube	ASTM A500 Gr. B	—	—
b5	1	13"x7"x5/8" [330x178x16] Steel Plate	ASTM A36	—	—
f8	2	1/2"—13 UNC [M14x2], 2" [51] Long Hex Bolt and Nut	Bolt ASTM A307 Gr. A or equivalent Nut — ASTM A563A or equivalent	—	FBX14a
—	2	Upper Post Assembly	—	ASTM A123	—
b3	1	W6x8.5 [W152x12.6] or W6x9 [W152x13.4], 27 1/2" [699] Long Steel Post	ASTM A992	—	—
b6	2	5 1/2"x5 1/2"x3/4" [140x140x19] Steel Plate	ASTM A36	—	—
b9	2	5 7/16"x4"x1/4" [138x102x6] Steel Plate	ASTM A36	—	—



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Downstream Anchor Post
Assembly Details

DWG. NAME:
SPTA-2_R5

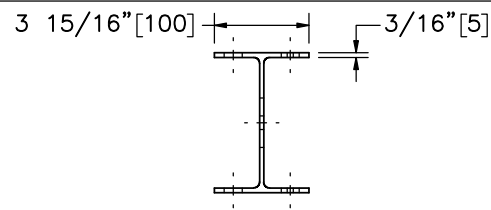
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UNITS: In./mm

SHEET:
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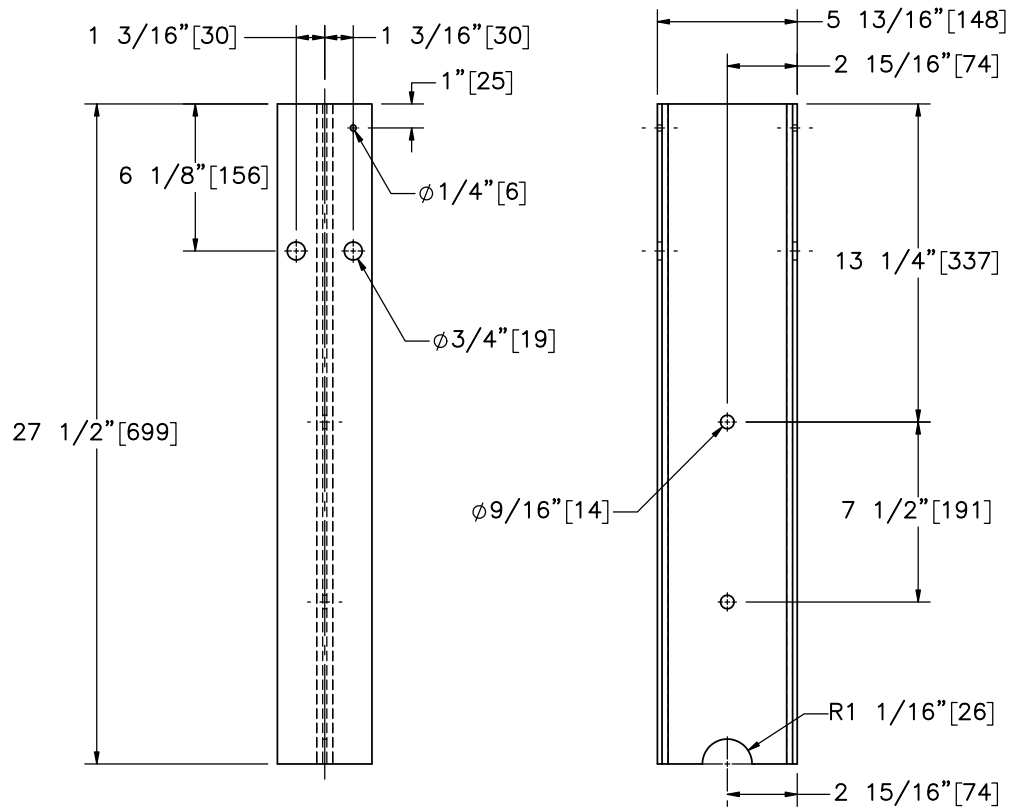
DATE:
8/21/2020

DRAWN BY:
JEK/SBW

REV. BY:
KAL



PLAN VIEW

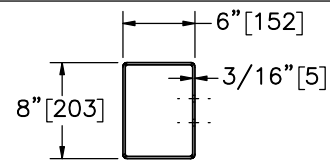


ELEVATION VIEW

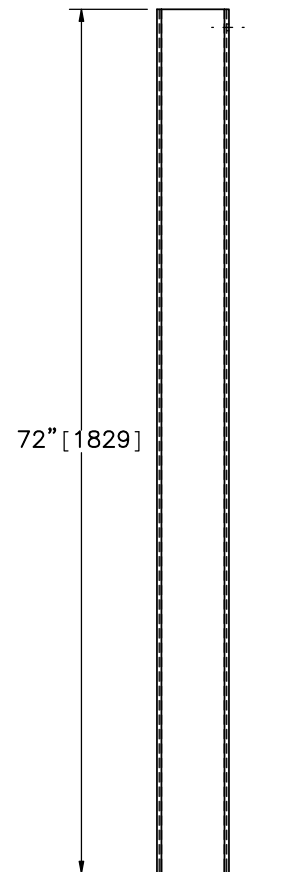
PROFILE VIEW

SCALE 1:8
Part b3

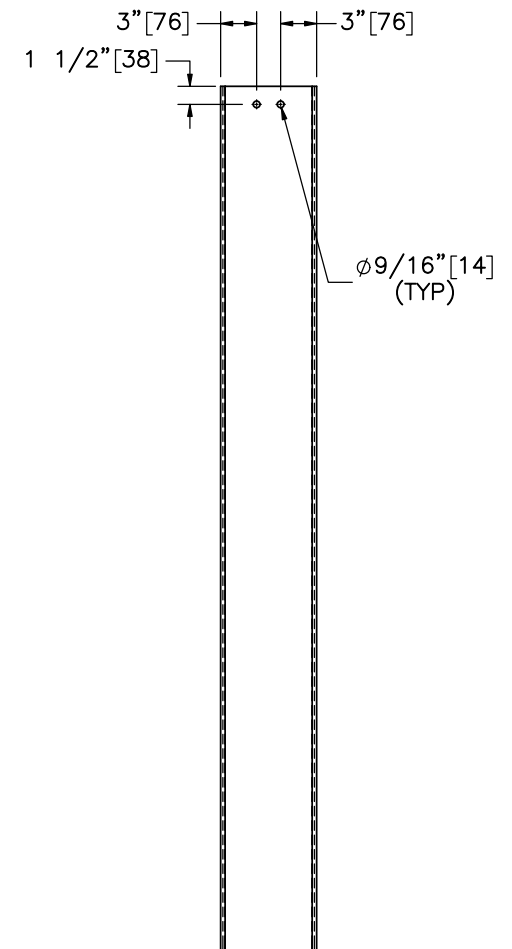
Note: (1) Rail attachment hole in part b3 raised 1" [25] to accommodate max height testing.



PLAN VIEW



ELEVATION VIEW



PROFILE VIEW

Part b4



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Downstream Anchor Post &
Foundation Tube Details

DWG. NAME:
SPTA-2_R5

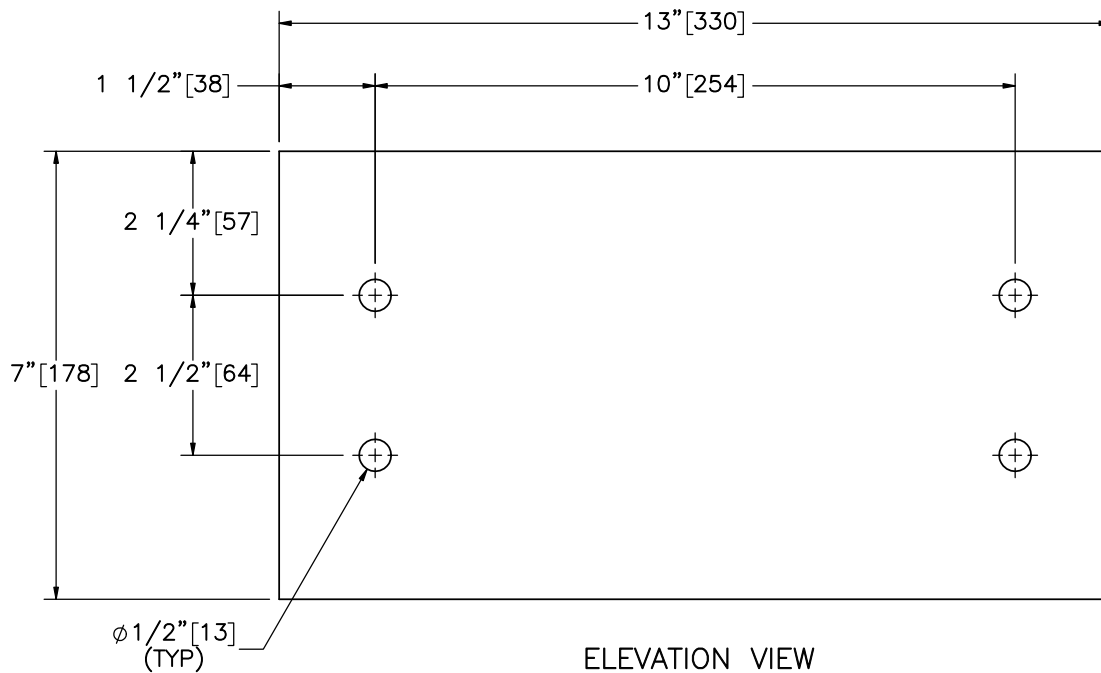
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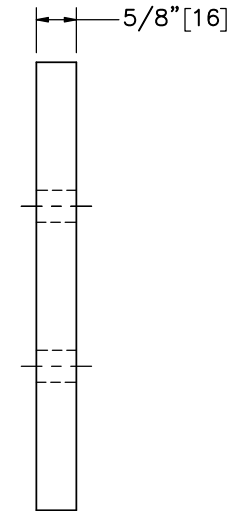
DRAWN BY:
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KAL

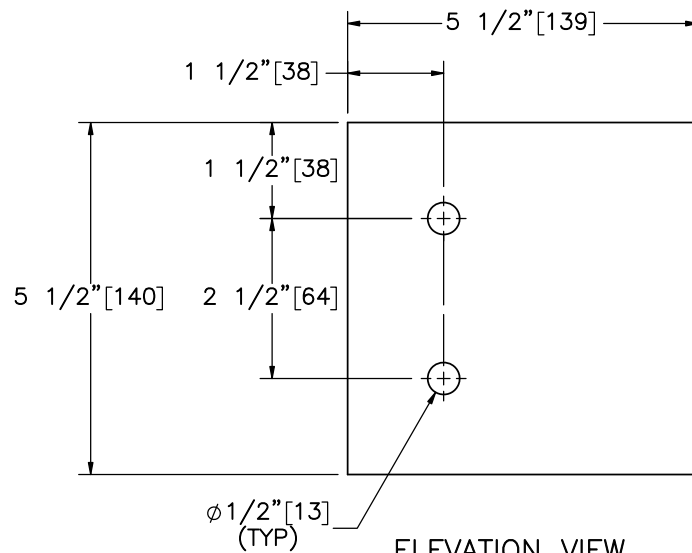


ELEVATION VIEW

Part b5

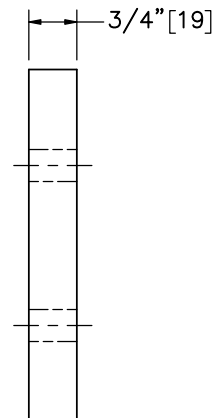


PROFILE VIEW

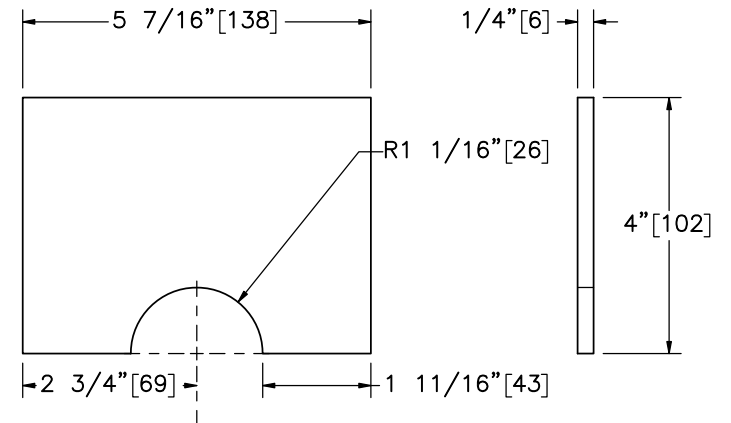


ELEVATION VIEW

Part b6



PROFILE VIEW



ELEVATION VIEW

PROFILE VIEW

Part b9



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Downstream Anchor Post
Components

DWG. NAME.
SPTA-2_R5

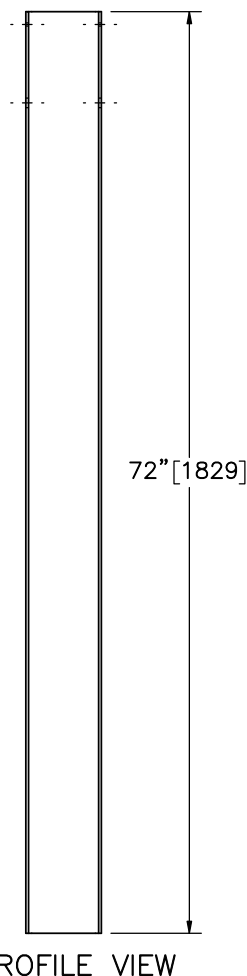
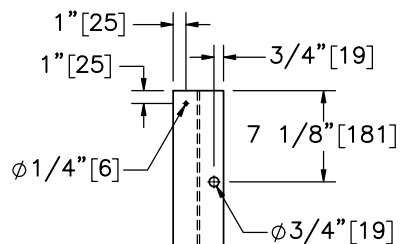
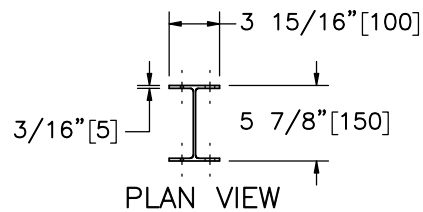
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DATE:
8/21/2020

DRAWN BY:
JEK/SBW

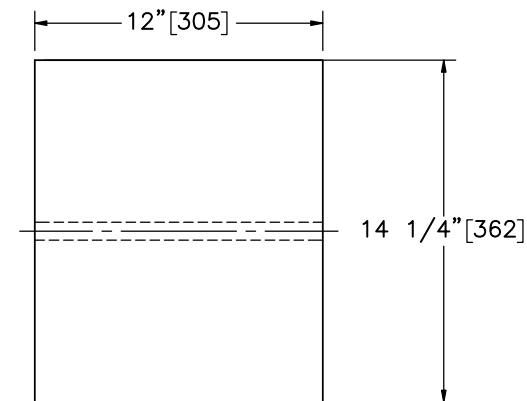
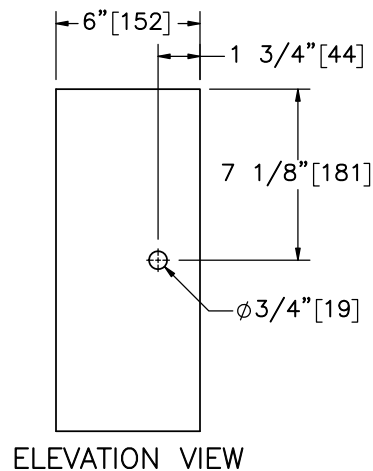
REV. BY:
KAL



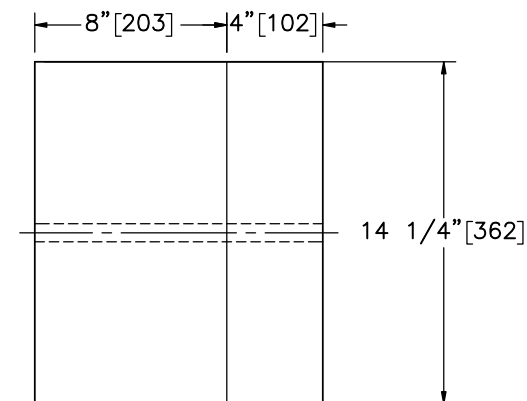
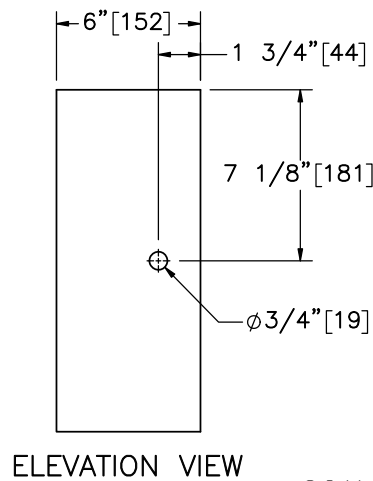
ELEVATION VIEW

PROFILE VIEW

Part b1



SCALE 1:8
Part b2



SCALE 1:8

Alternate Blockout Option –
6"x4"x14 1/4" [152x102x362] Blockout
with 6"x8"x14 1/4" [152x203x362] Blockout



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Post Nos. 3-27 Components

DWG. NAME.
SPTA-2_R5

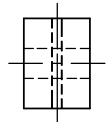
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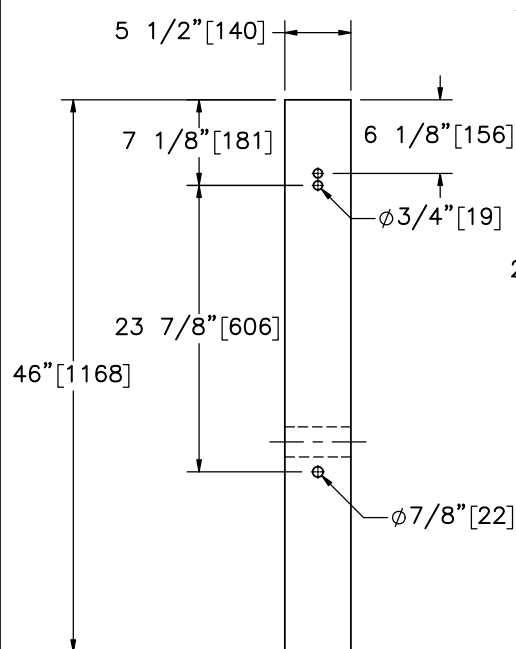
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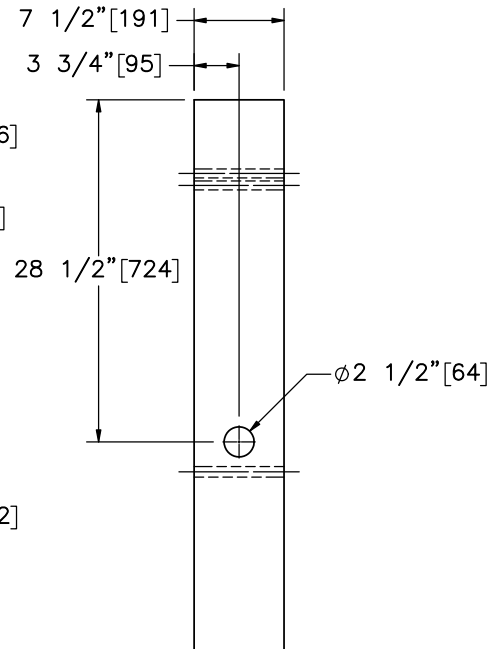
REV. BY:
KAL



PLAN VIEW

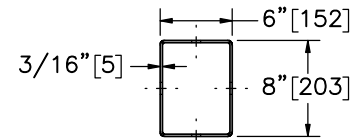


ELEVATION VIEW

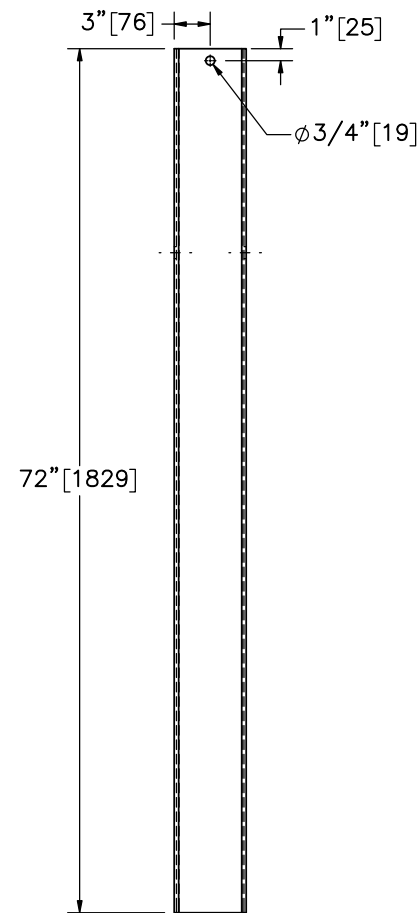


PROFILE VIEW

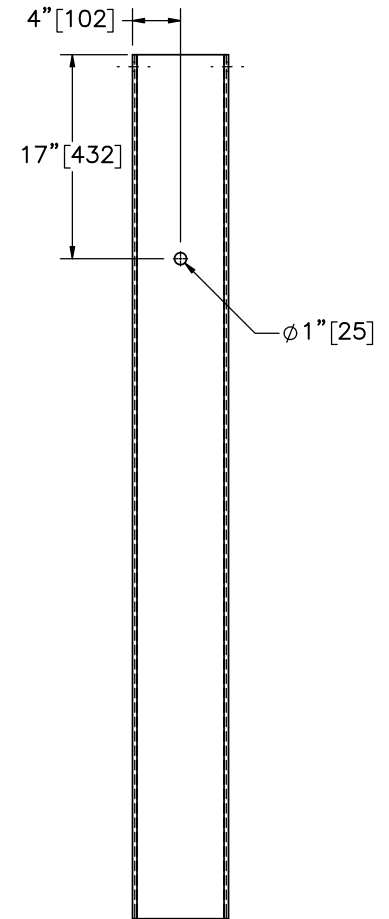
Part b7



PLAN VIEW



ELEVATION VIEW



PROFILE VIEW

Part b8



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Upstream Anchor Post &
Foundation Tube Detail

DWG. NAME.
SPTA-2_R5

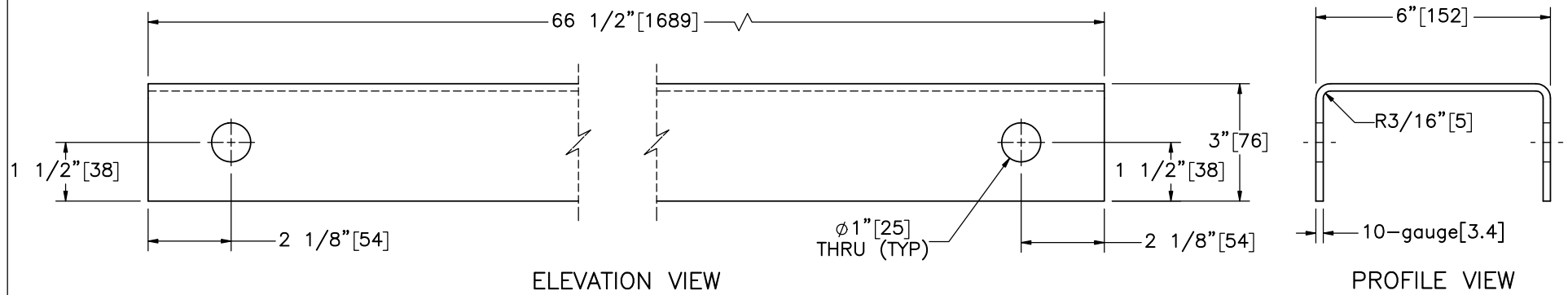
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SHEET:
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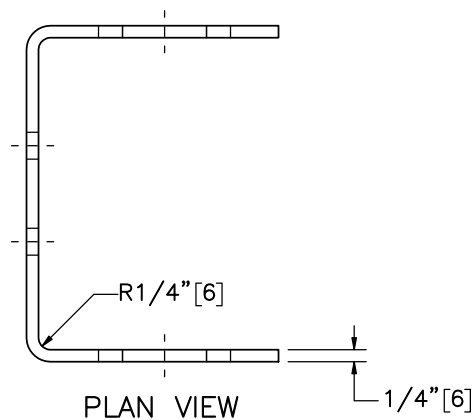
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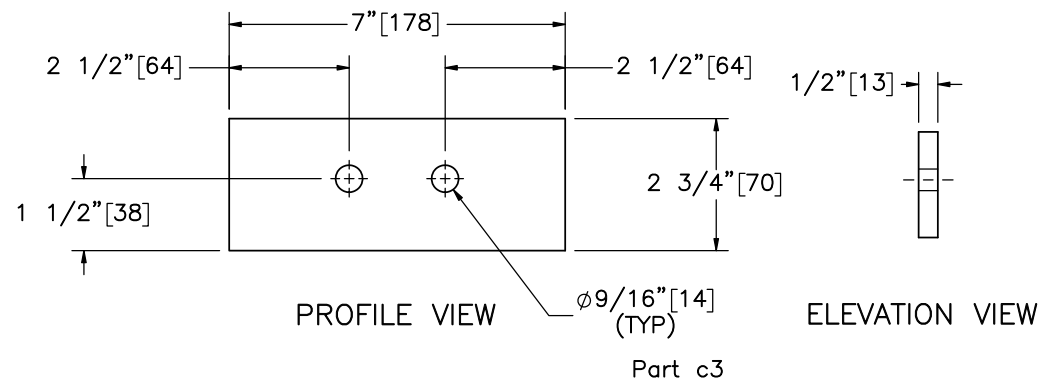
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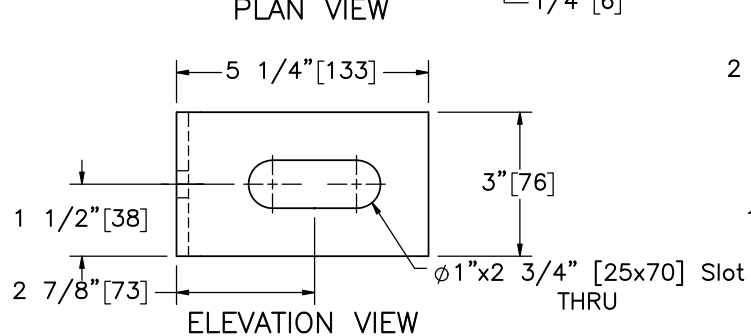
Part c1



Part c2



Part c3



Part c2



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Downstream Ground Strut
Components

DWG. NAME.
SPTA-2_R5

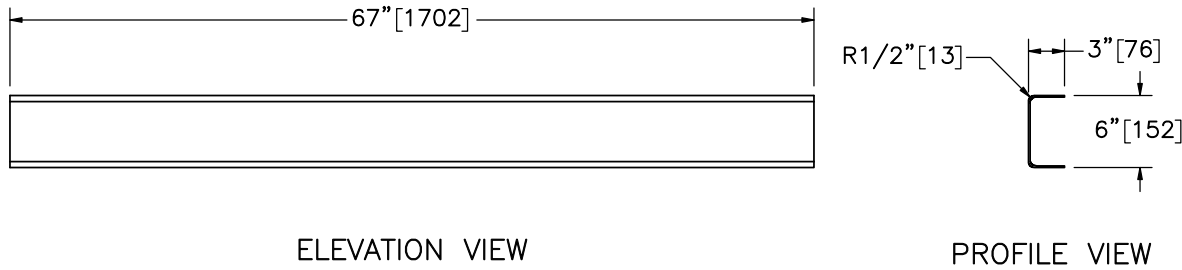
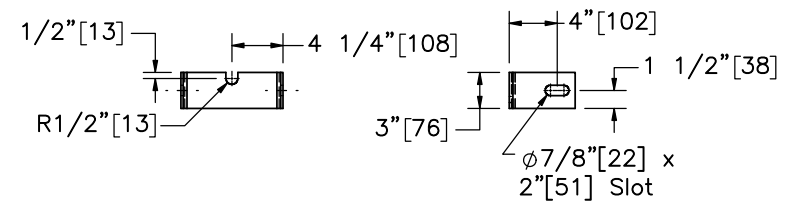
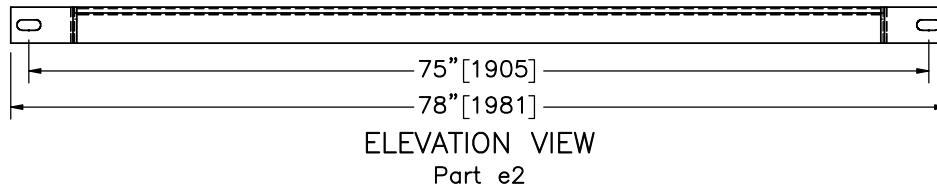
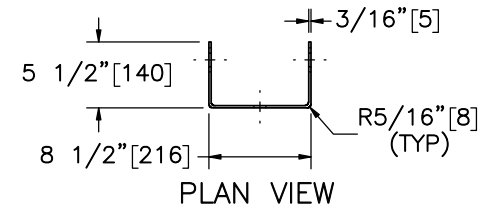
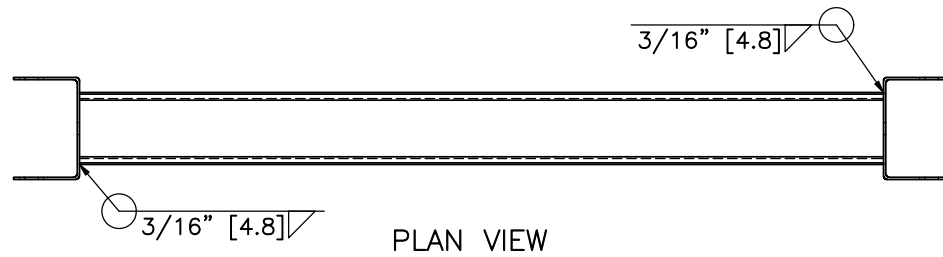
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UNITS: In./mm

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DATE:
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6"x3" [152x76] 10-Gauge [3.4] Strut



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Upstream Ground Strut Details

DWG. NAME.
SPTA-2_R5

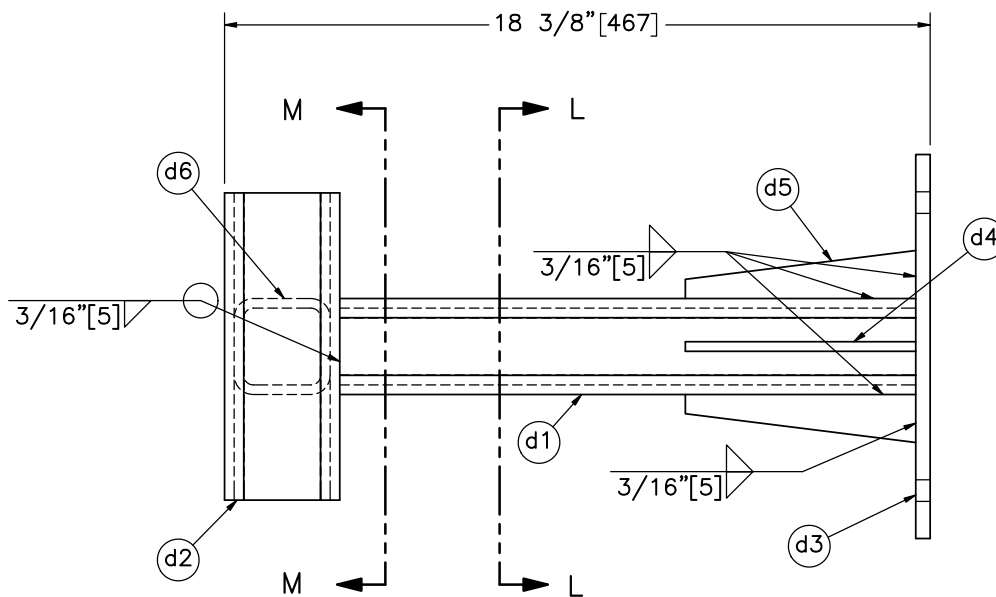
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UNITS: In.[mm]

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DATE:
8/21/2020

DRAWN BY:
JEK/SBW

REV. BY:
KAL



BACKSIDE VIEW

Item No.	QTY.	Description	Material Specification	Treatment Specification
—	1	Breaker Arm Assembly	—	ASTM A123
d1	1	HSS 2 1/2"x2 1/2"x1/4" [64x64x6], 15" [381] Long Square Tube	ASTM A500 Gr. B	—
d2	1	HSS 3"x3"x1/4" [76x76x6], 8" [203] Long Square Tube	ASTM A500 Gr. B	—
d3	1	10"x4 1/2"x3/8" [254x114x10] Plate	ASTM A36	—
d4	2	6"x3/4"x1/4" [152x19x6] Gusset	ASTM A36	—
d5	2	6"x1 1/4"x1/4" [152x32x6] Gusset	ASTM A36	—
d6	1	HSS 2 1/2"x2 1/2"x1/4" [64x64x6], 4" [102] Long Square Tube	ASTM A500 Gr. B	—



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Breaker Arm Assembly

DWG. NAME.
SPTA-2_R5

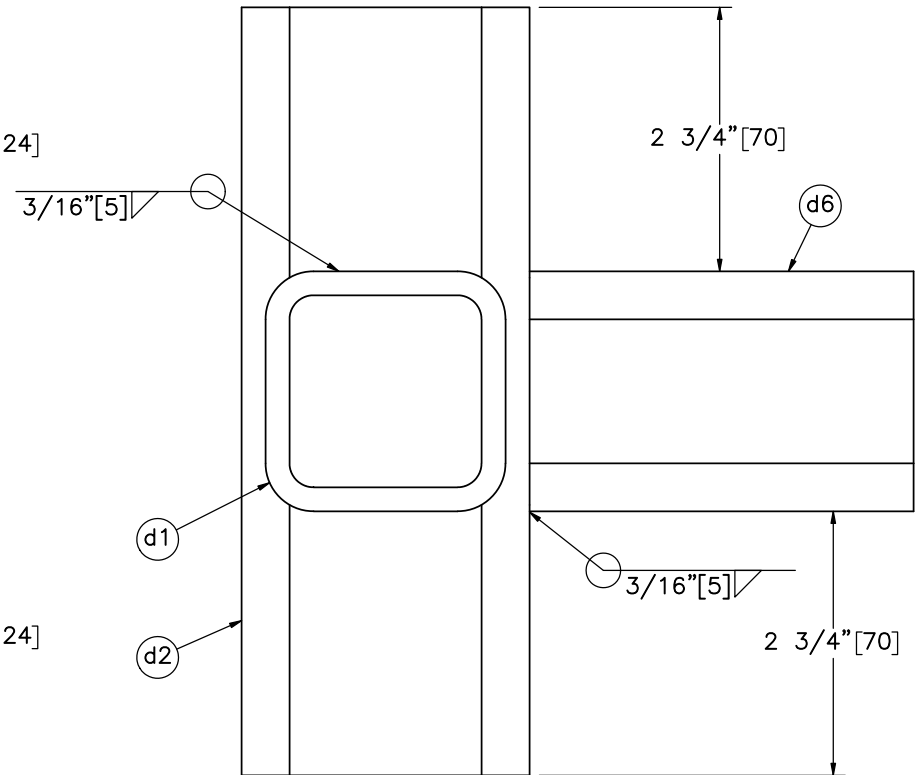
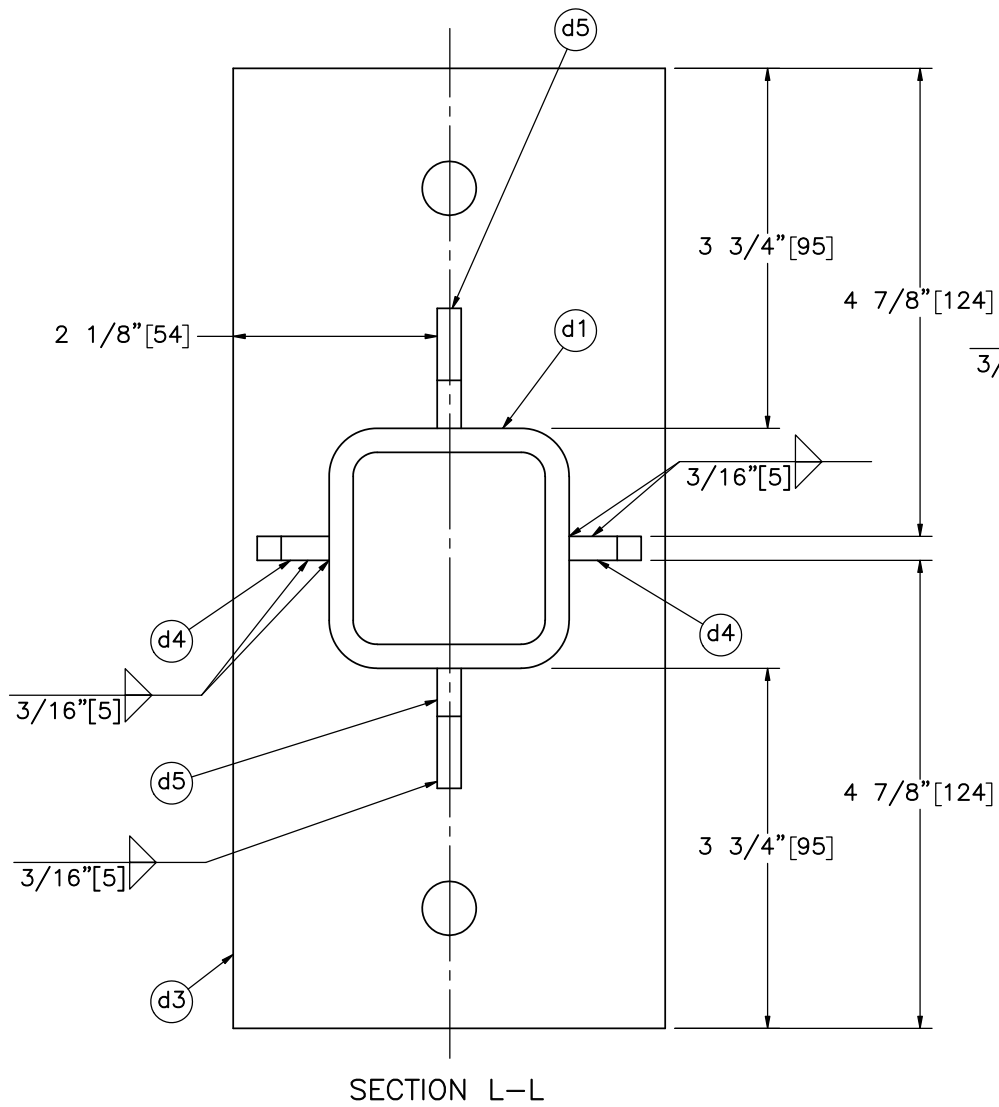
SCALE: 1:5
UNITS: In./mm

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DATE:
8/21/2020

DRAWN BY:
JEK/SBW

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Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Breaker Arm Details

DWG. NAME.
SPTA-2_R5

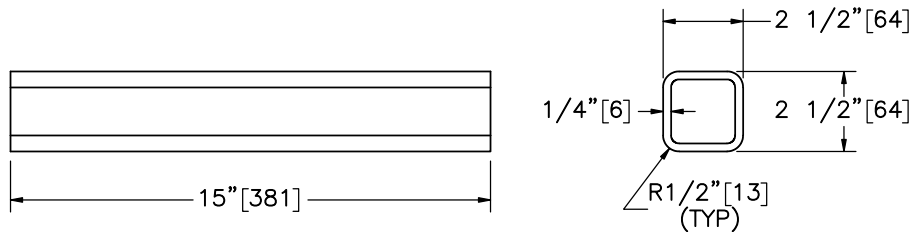
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DATE:
8/21/2020

DRAWN BY:
JEK/SBW

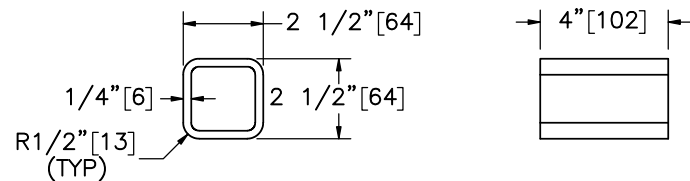
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KAL



ELEVATION VIEW

PROFILE VIEW

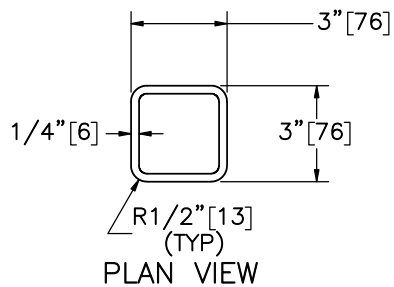
Part d1



ELEVATION VIEW

PROFILE VIEW

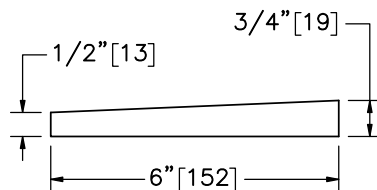
Part d6



PLAN VIEW

ELEVATION VIEW

Part d2

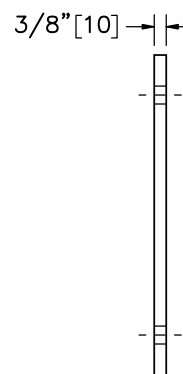


PLAN VIEW

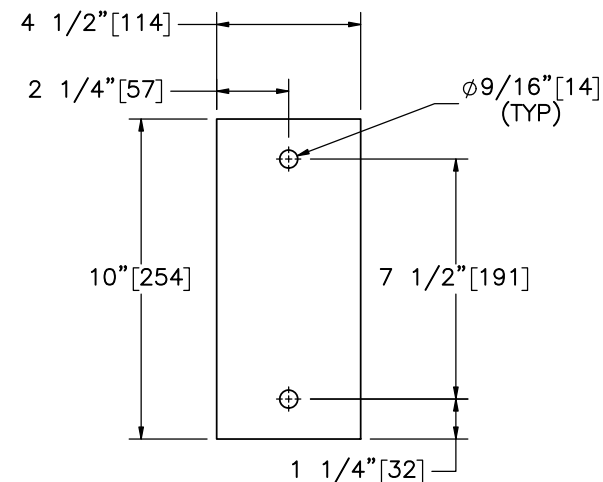
ELEVATION VIEW

SCALE 1:4

Part d4

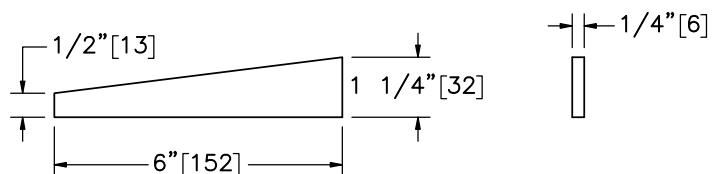


ELEVATION VIEW



PROFILE VIEW

Part d3



ELEVATION VIEW

PROFILE VIEW

SCALE 1:4

Part d5



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Breaker Arm Components

DWG. NAME.
SPTA-2_R5

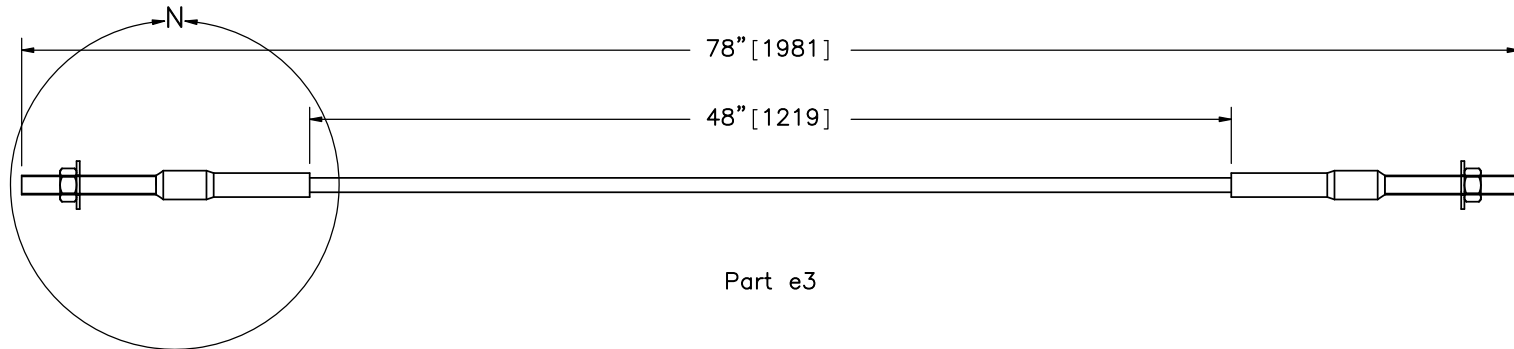
SCALE: 1:6
UNITS: In.[mm]

SHEET:
18 of 26

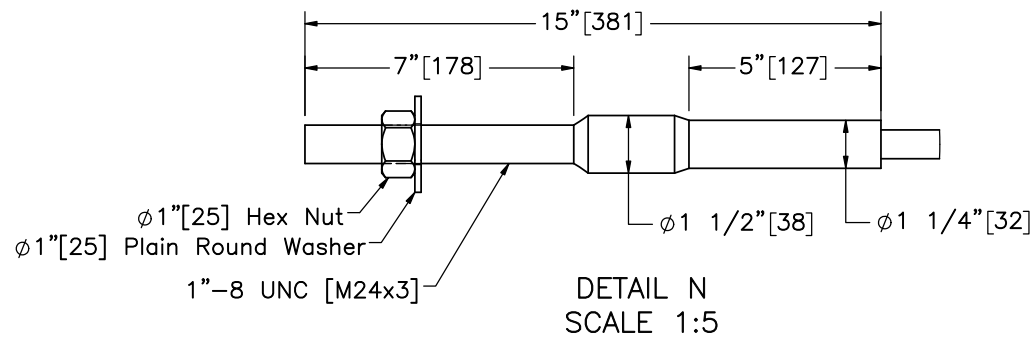
DATE:
8/21/2020

DRAWN BY:
JEK/SBW

REV. BY:
KAL



Part e3

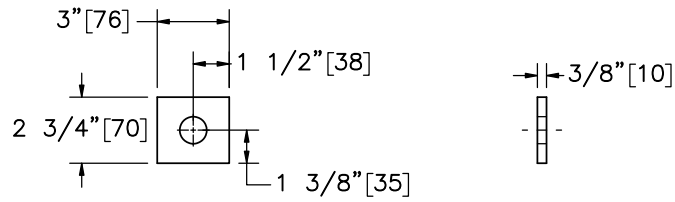


Steel Post Terminal
Anchorage
Test No. SPTA-2
Anchor Cable Assembly

DWG. NAME.
SPTA-2_R5

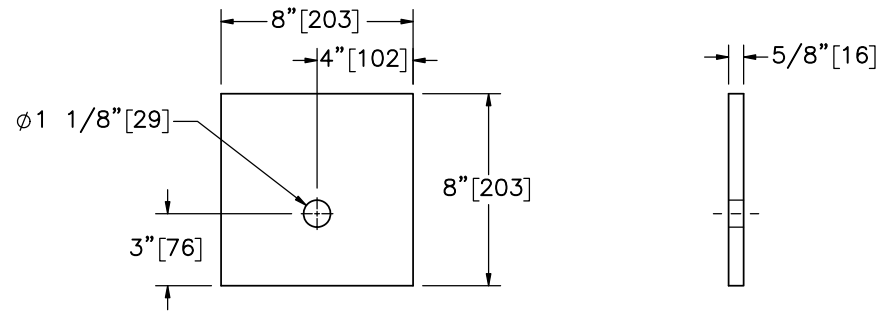
SCALE: 1:10
UNITS: In.[mm]

SHEET:
19 of 26
DATE:
8/21/2020
DRAWN BY:
JEK/SBW
REV. BY:
KAL



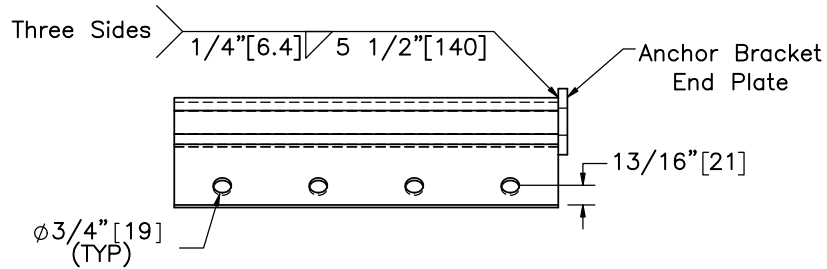
ELEVATION VIEW PROFILE VIEW

Anchor Bracket End Plate

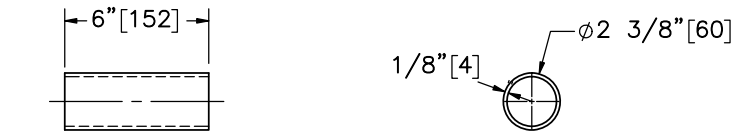


ELEVATION VIEW PROFILE VIEW

Part e6

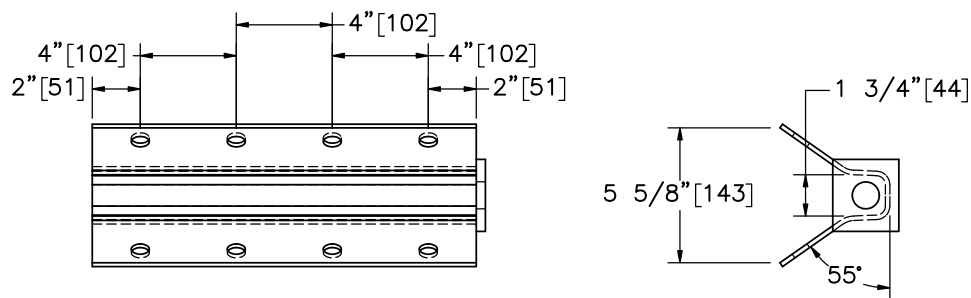


PLAN VIEW



ELEVATION VIEW PROFILE VIEW

Part e7

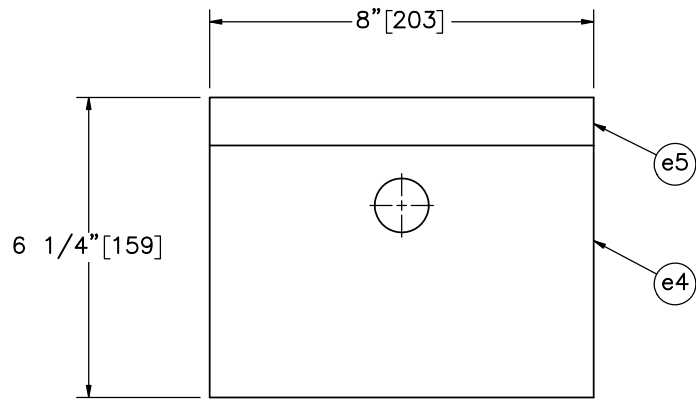


ELEVATION VIEW

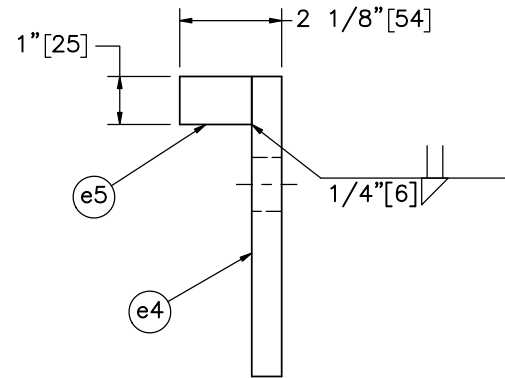
PROFILE VIEW

Part e1

	Steel Post Terminal Anchorage		SHEET: 20 of 26
	Test No. SPTA-2		DATE: 8/21/2020
Midwest Roadside Safety Facility	Anchor Post Components & Anchor Bracket		DRAWN BY: JEK/SBW
	DWG. NAME: SPTA-2_R5	SCALE: 1:8 UNITS: In./mm	REV. BY: KAL

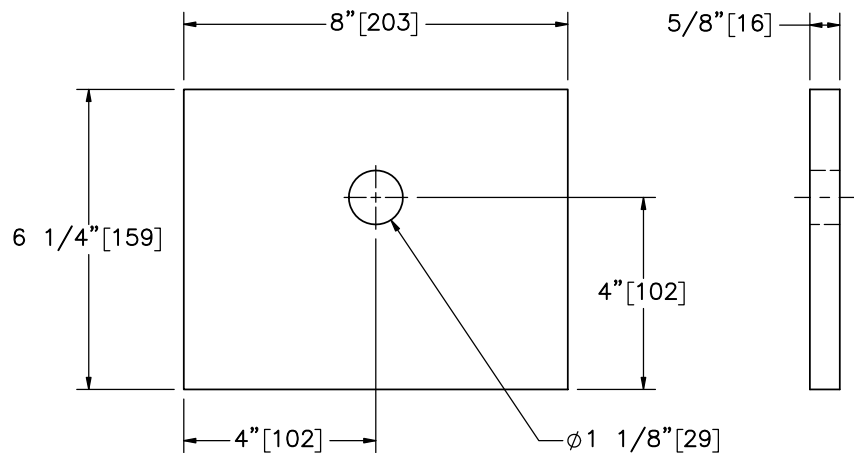


ELEVATION VIEW



PROFILE VIEW

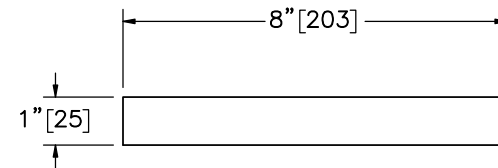
Bearing Plate Assembly



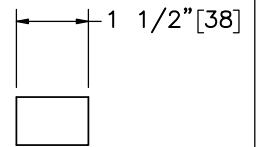
ELEVATION VIEW

PROFILE VIEW

Part e4



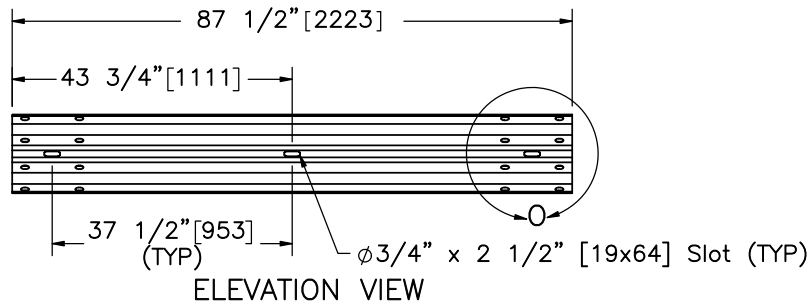
ELEVATION VIEW



PROFILE VIEW

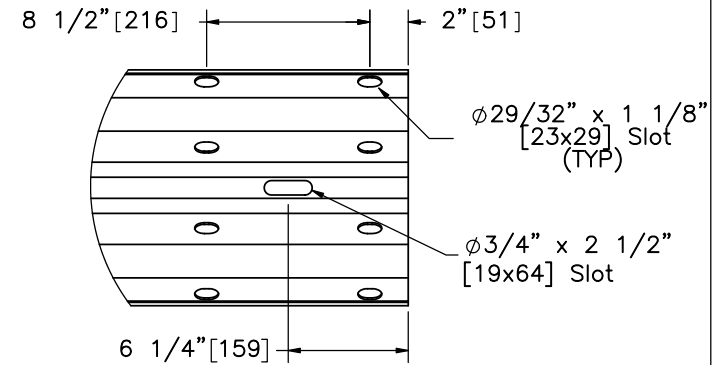
Part e5

Item No.	QTY.	Description	Material Specification	Treatment Specification	 Midwest Roadside Safety Facility	Steel Post Terminal Anchorage Test No. SPTA-2 Bearing Plate Assembly & Components	SHEET: 21 of 26
-	1	Bearing Plate Assembly	-	ASTM A123			DATE: 8/21/2020
e4	1	8"x6 1/4"x5/8" [203x159x16] Bearing Plate Base	ASTM A36	-			DRAWN BY: JEK/SBW
e5	1	8"x1 1/2"x1" [203x38x25] Bearing Plate Flange	ASTM A36	-	DWG. NAME: SPTA-2_R5	SCALE: 1:4 UNITS: In./mm	REV. BY: KAL

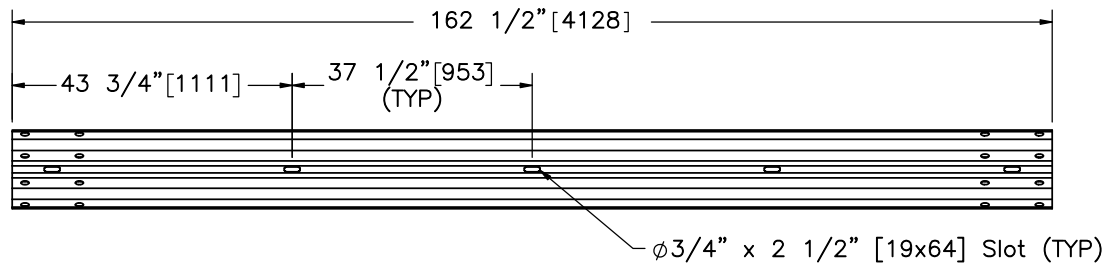


Part a3

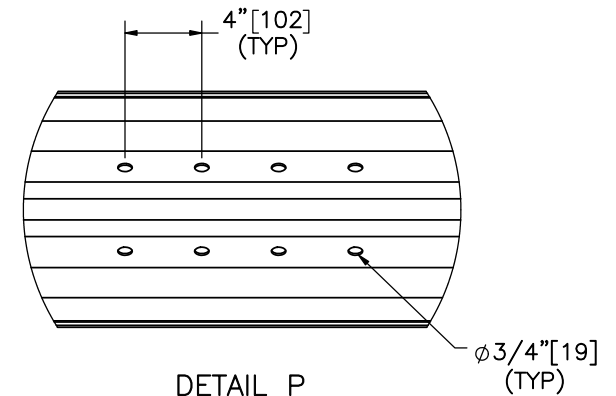
PROFILE VIEW



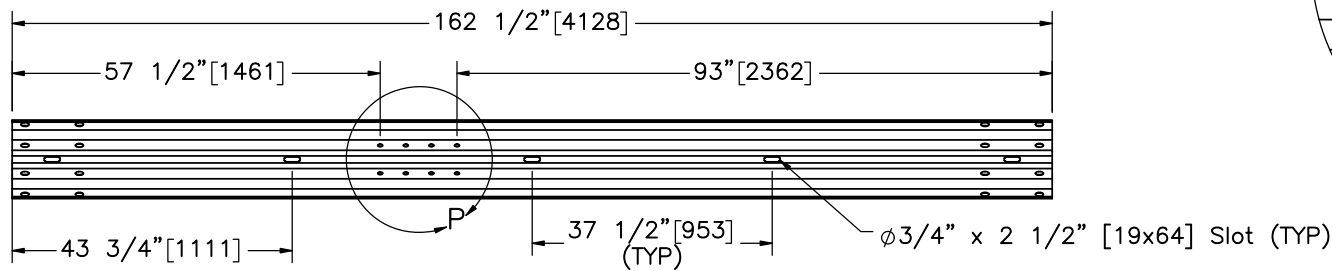
DETAIL O
 SCALE 1:10



ELEVATION VIEW
 Part a1



DETAIL P
 SCALE 1:10



ELEVATION VIEW
 Part a2



Midwest Roadside
 Safety Facility

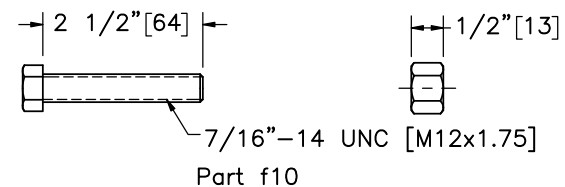
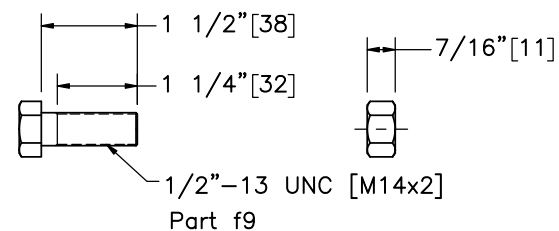
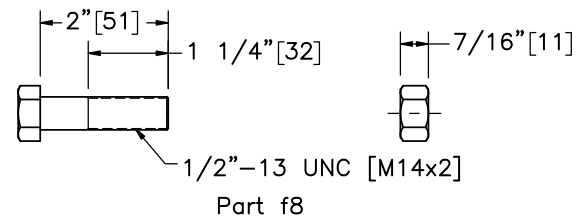
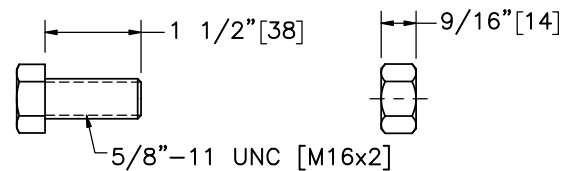
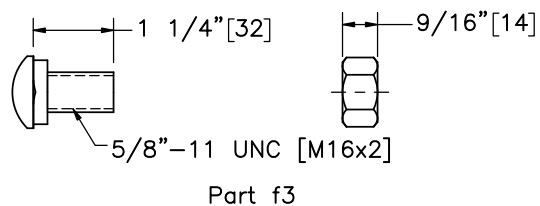
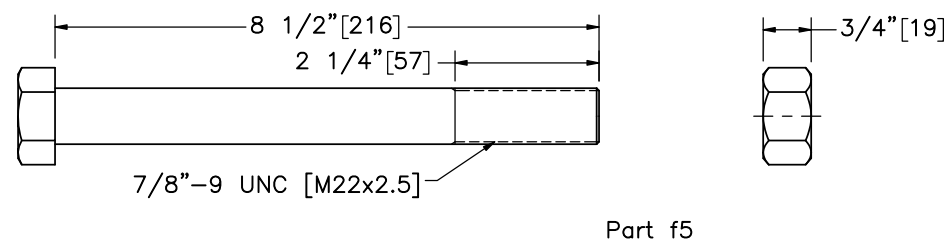
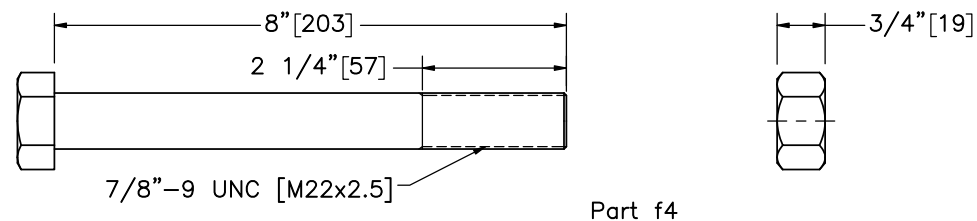
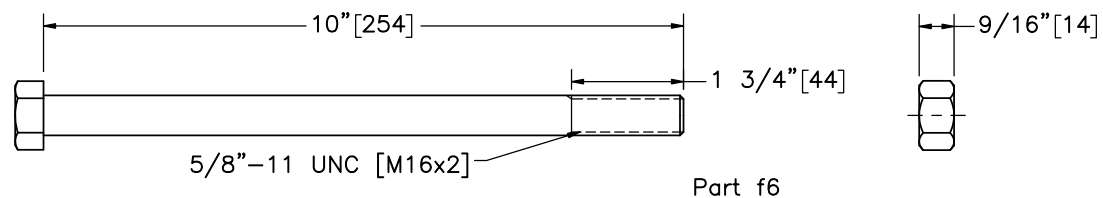
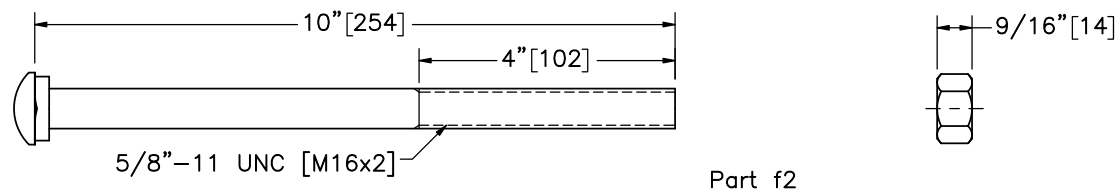
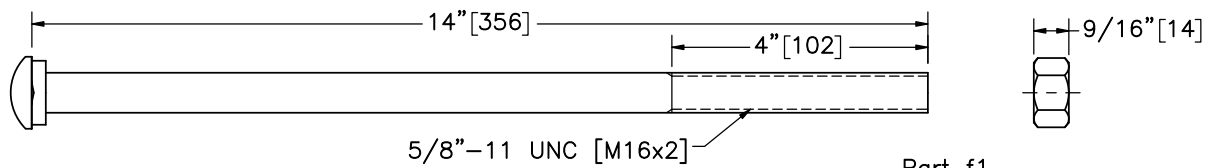
Steel Post Terminal
 Anchorage
 Test No. SPTA-2

Rail Section Details

DWG. NAME.
 SPTA-2_R5

SCALE: 1:30
 UNITS: In./mm

SHEET:
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 DATE:
 8/21/2020
 DRAWN BY:
 JEK/SBW
 REV. BY:
 KAL



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Hardware

DWG. NAME.
SPTA-2_R5

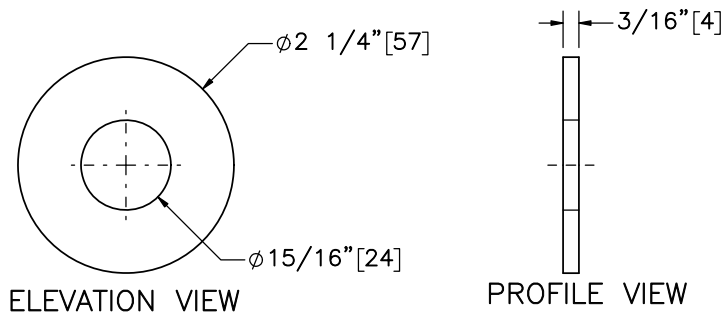
SCALE: 1:3
UNITS: In.[mm]

SHEET:
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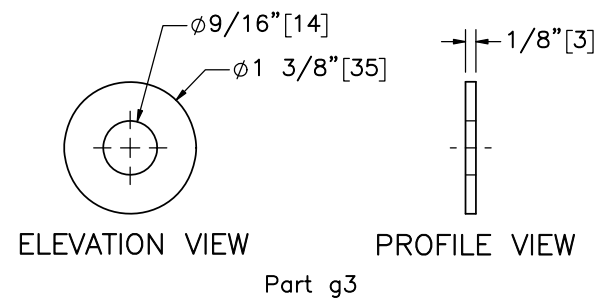
DATE:
8/21/2020

DRAWN BY:
JEK/SBW

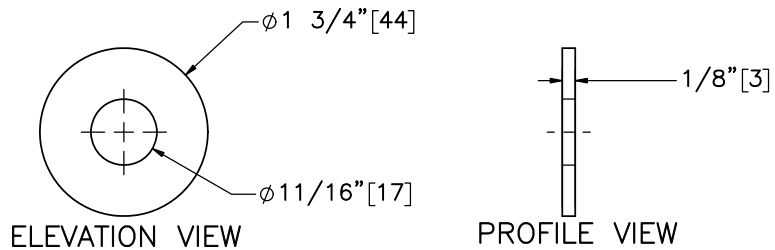
REV. BY:
KAL



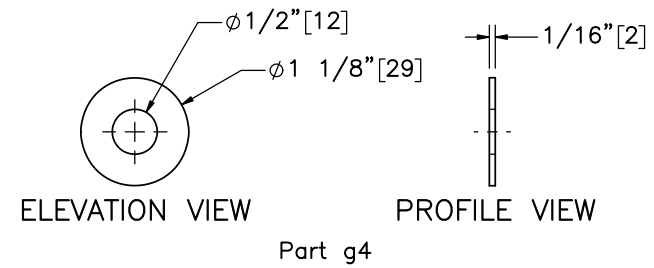
Part g1



Part g3



Part g2



Part g4



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Hardware

DWG. NAME.
SPTA-2_R5

SCALE: 1:2
UNITS: In.[mm]

SHEET:
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DATE:
8/21/2020

DRAWN BY:
JEK/SBW

REV. BY:
KAL

Item No.	QTY.	Description	Material Specification	Treatment Specification	Hardware Guide
a1	12	12'-6" [3,810] 12-gauge [2.7] W-Beam MGS Section	AASHTO M180	ASTM A123 or A653	RWM04a
a2	2	12'-6" [3,810] 12-gauge [2.7] W-Beam MGS End Section	AASHTO M180	ASTM A123 or A653	—
a3	1	6'-3" [1,905] 12-gauge [2.7] W-Beam MGS Section	AASHTO M180	ASTM A123 or A653	—
b1	25	W6x8.5 [W152x12.6] or W6x9 [W152x13.4], 72" Long [1,829] Steel Post	ASTM A992	ASTM A123	PWE06
b2	25	6"x12"x14 1/4" [152x305x368] Timber Blockout	SYP Grade No.1 or better	—	PDB10a
b3	2	W6x8.5 [W152x12.6] or W6x9 [W152x13.4], 27 1/2" [699] Long Steel Post	ASTM A992	—	—
b4	2	TS 8"x6"x3/16" [203x152x5], 72" [1,829] Long Foundation Tube	ASTM A500 Gr. B	—	—
b5	2	13"x7"x5/8" [330x178x16] Steel Plate	ASTM A36	—	—
b6	4	5 1/2"x5 1/2"x3/4" [140x140x19] Steel Plate	ASTM A36	—	—
b7	2	BCT Timber Post – MGS Height	SYP Grade No. 1 or better (No knots 18" [457] above or below ground tension face)	—	PDF01
b8	2	TS 8"x6"x3/16" [203x152x5], 72" [1,829] Long Foundation Tube	ASTM A500 Gr. B	ASTM A123	PTE06
b9	4	5 7/16"x4"x1/4" [138x102x6] Steel Plate	ASTM A36	—	—
c1	1	66 1/2"x11 3/4"x10-gauge [1,689x298x3.4] Bent Steel Channel Strut	ASTM A36	ASTM A123	—
c2	2	17"x3"x1/4" [432x76x6] Bent Steel Plate	ASTM A36	ASTM A123	—
c3	2	7"x2 3/4"x1/2" [178x70x13] Steel Plate	ASTM A36	ASTM A123	—
d1	1	HSS 2 1/2"x2 1/2"x1/4" [64x64x6], 15" [381] Long Square Tube	ASTM A500 Gr. B	—	—
d2	1	HSS 3"x3"x1/4" [76x76x6], 8" [203] Long Square Tube	ASTM A500 Gr. B	—	—
d3	1	10"x4 1/2"x3/8" [254x114x10] Plate	ASTM A36	—	—
d4	2	6"x3/4"x1/4" [152x19x6] Gusset	ASTM A36	—	—
d5	2	6"x1 1/4"x1/4" [152x32x6] Gusset	ASTM A36	—	—
d6	1	HSS 2 1/2"x2 1/2"x1/4" [64x64x6], 4" [102] Long Square Tube	ASTM A500 Gr. B	—	—



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Bill of Materials

DWG. NAME.
SPTA-2_R5

SCALE: None
UNITS: In.[mm]

SHEET:
25 of 26

DATE:
8/21/2020

DRAWN BY:
JEK/SBW

REV. BY:
KAL

Item No.	QTY.	Description	Material Specification	Treatment Specification	Hardware Guide
e1	2	Anchor Bracket Assembly	ASTM A36	ASTM A123	FPA01
e2	1	Upstream Ground Strut	ASTM A36	ASTM A123	PFP02
e3	2	Anchor Cable Assembly	—	—	FCA01
e4	1	8"x6 1/4"x5/8" [203x159x16] Bearing Plate Base	ASTM A36	—	FPB01
e5	1	8"x1 1/2"x1" [203x38x25] Bearing Plate Flange	ASTM A36	—	—
e6	1	8"x8"x5/8" [203x203x16] Anchor Bearing Plate	ASTM A36	ASTM A123	FPB01
e7	1	2 3/8" [60] O.D. x 6" [152] Long BCT Post Sleeve	ASTM A53 Gr. B Schedule 40	ASTM A123	FMM02
f1	25	5/8"—11 UNC [M16x2], 14" [356] Long Guardrail Bolt and Nut	Bolt — ASTM A307 Gr. A Nut — ASTM A563A	ASTM A153 or B695 Class 55 or F2329	FBB06
f2	2	5/8"—11 UNC [M16x2], 10" [254] Long Guardrail Bolt and Nut	Bolt — ASTM A307 Gr. A Nut — ASTM A563A	ASTM A153 or B695 Class 55 or F2329	FBB03
f3	114	5/8"—11 UNC [M16x2], 1 1/4" [32] Long Guardrail Bolt and Nut	Bolt — ASTM A307 Gr. A Nut — ASTM A563A	ASTM A153 or B695 Class 55 or F2329	FBB01
f4	2	7/8"—9 UNC [M22x2.5], 8" [203] Long Hex Head Bolt and Nut	Bolt — ASTM A307 Gr. A or equivalent Nut — ASTM A563A or equivalent	ASTM A153 or B695 Class 55 or F2329	—
f5	2	7/8"—9 UNC [M22x2.5], 8 1/2" [216] Long Hex Head Bolt and Nut	Bolt — ASTM A307 Gr. A or equivalent Nut — ASTM A563A or equivalent	ASTM A153 or B695 Class 55 or F2329	—
f6	2	5/8"—11 UNC [M16x2], 10" [254] Long Hex Head Bolt and Nut	Bolt — ASTM A307 Gr. A or equivalent Nut — ASTM A563A or equivalent	ASTM A153 or B695 Class 55 or F2329	FBX16a
f7	16	5/8"—11 UNC [M16x2], 1 1/2" [38] Long Hex Head Bolt and Nut	Bolt — ASTM A307 Gr. A or equivalent Nut — ASTM A563A or equivalent	ASTM A153 or B695 Class 55 or F2329	FBX16a
f8	4	1/2"—13 UNC [M14x2], 2" [51] Long Hex Bolt and Nut	Bolt — ASTM A307 Gr. A or equivalent Nut — ASTM A563A or equivalent	—	FBX14a
f9	2	1/2"—13 UNC [M14x2], 1 1/2" [38] Long Hex Bolt and Nut	Bolt — ASTM A307 Gr. A or equivalent Nut — ASTM A563A or equivalent	ASTM A153 OR B695 Class 55 or F2329	FBX14a
f10	8	7/16"—14 UNC [M12x1.75], 2 1/2" [64] Long Fully Threaded Hex Tap Bolt and Nut	Bolt — ASTM A449 or equivalent Nut — ASTM A563DH or equivalent	ASTM A153 or B695 Class 55 or F2329	FBX12b
f11	26	16D Double Head Nail	—	—	—
g1	8	7/8" [22] Dia. Plain Round Washer	ASTM F844	ASTM A123 or A153 or F2329	—
g2	38	5/8" [16] Dia. Plain Round Washer	ASTM F844	ASTM A123 or A153 or F2329	FWC16a
g3	8	1/2" [13] Dia. Plain Round Washer	ASTM F844	ASTM A123 or A153 or F2329	FWC14a
g4	32	7/16" [11] Dia. Plain Round Washer	ASTM F844	ASTM A123 or A153 or F2329	FWC12a



Midwest Roadside
Safety Facility

Steel Post Terminal
Anchorage
Test No. SPTA-2

Bill of Materials

DWG. NAME.
SPTA-2_R5

SCALE: None
UNITS: In.[mm]

SHEET:
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DATE:
8/21/2020

DRAWN BY:
JEK/SBW

REV. BY:
KAL

REV.	DATE OF ISSUE	Page	NATURE OF CHANGES	REVIEWER	REVISED BY
0	8/1/2018	—	Created from SPTA-2_R7. Rail height raised to 32". Terminal posts modified to accommodate. Impact information edit. Load cell removed.	—	JEK
1	8/1/2018	13	Dim add.	KAL	JEK
2	8/14/2018	4	Breaker bar lowered and shortened. General shift.	KAL	JEK
		6	Label remove.		
		8	Half tube removed. Replaced with two plates. Weld edits. Dim adds.		
		9	Half tube removed. Replaced with two plates. Weld edits. Dim adds. Part e8 replaced with b9. Label adds.		
		10	Part b3 edits. Weep hole add. Arc size at bottom changed. Hole locations in web shifted. Dim shifts. Dim adds.		
		11	Part b9 add.		
		16	Arm shortened. General shift.		
		18	Part d1 shortened. Part d3 thicker. General shift.		
		20	Part e8 removed.		
		BOM	Removed: e8. New: b9. Description: d1, d3.		
3	8/14/2018	8-9	Weld edits (size). Dim edit (plate b9 location).	KAL	JEK
		16	Label edit. Hidden lines turned on. Part d6 add.		
		17	Label add. Weld add. General shift.		
		18	Part d6 add. Part d2 edit.		
		BOM	New: d6. Description: d2.		
4	8/21/2020	21	Edited weld note.	KAL	SBW
5	11/25/2020	9	Edited weld note.	KAL	CN