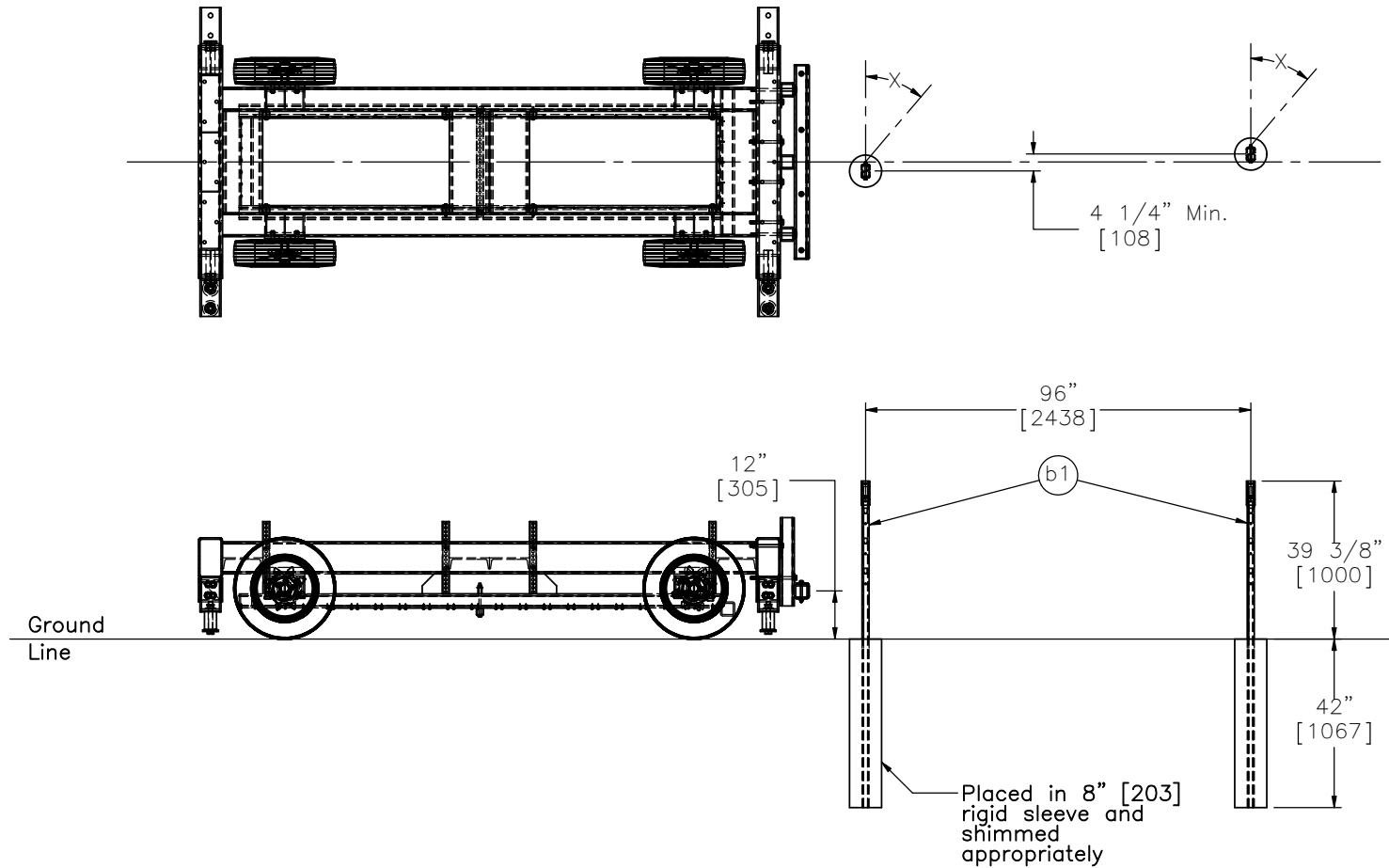


Test Name	Impact Height in. [mm]	Bogie No.	Estimated Bogie Weight (lb)	Bogie Speed (mph)	Post Orientation (degree) (X)*	Post Specimen
MWPFP-24	12 [305]	4 with floorpan	2400	25	0	b1

*0°=Weak Axis, 90°=Strong Axis



- Notes: (1) Posts to be offset minimum 4-1/4" [108].
(2) For bogie detail see drawing Bogie4_Floorpan.



Midwest Roadside
Safety Facility

Cable Post – Midwest
Weak Post

Test MWPFP-24 Layout

DWG. NAME.
Floor_Pan_Test_24_R4

SCALE: 1:45
UNITS: In.[mm]

SHEET:
1 of 6

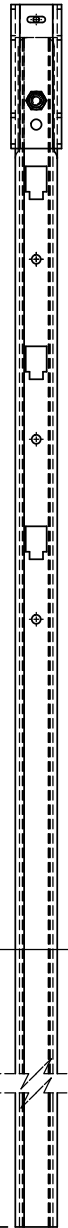
DATE:
2/28/2018

DRAWN BY:
TJD/JEK

REV. BY:
KAL/MP



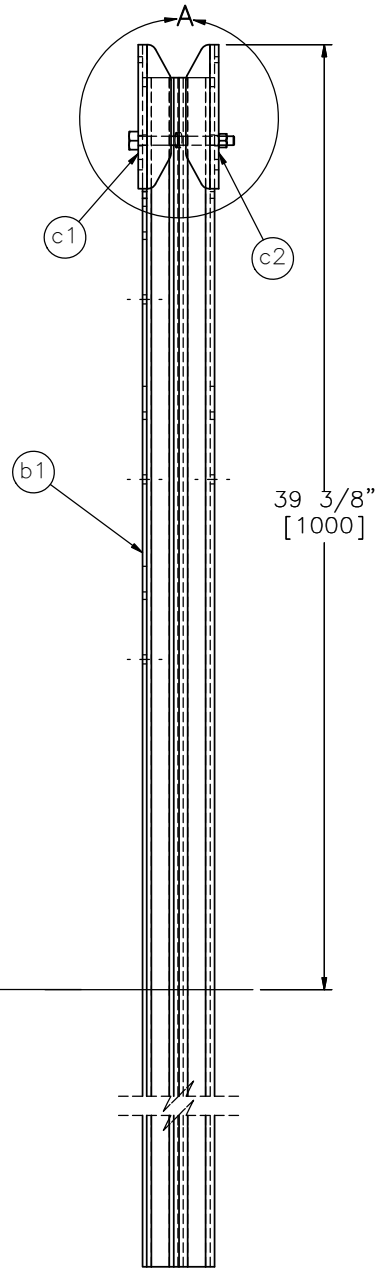
PLAN VIEW



ELEVATION VIEW

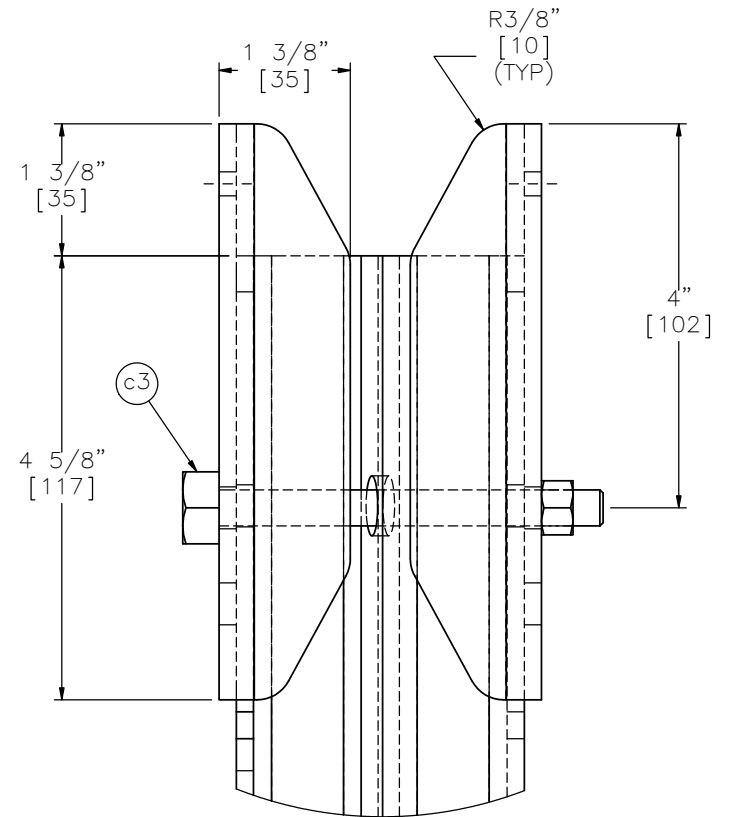
42"
[1067]

Ground
Line



PROFILE VIEW

39 3/8"
[1000]



DETAIL A
SCALE 1 : 2



Midwest Roadside
Safety Facility

Cable Post — Midwest
Weak Post

MWP with Steel Cap

DWG. NAME.
Floor_Pan_Test_24_R4

SCALE: 1:8
UNITS: In./mm

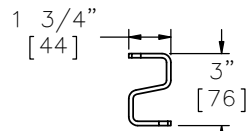
SHEET:
2 of 6

DATE:
2/28/2018

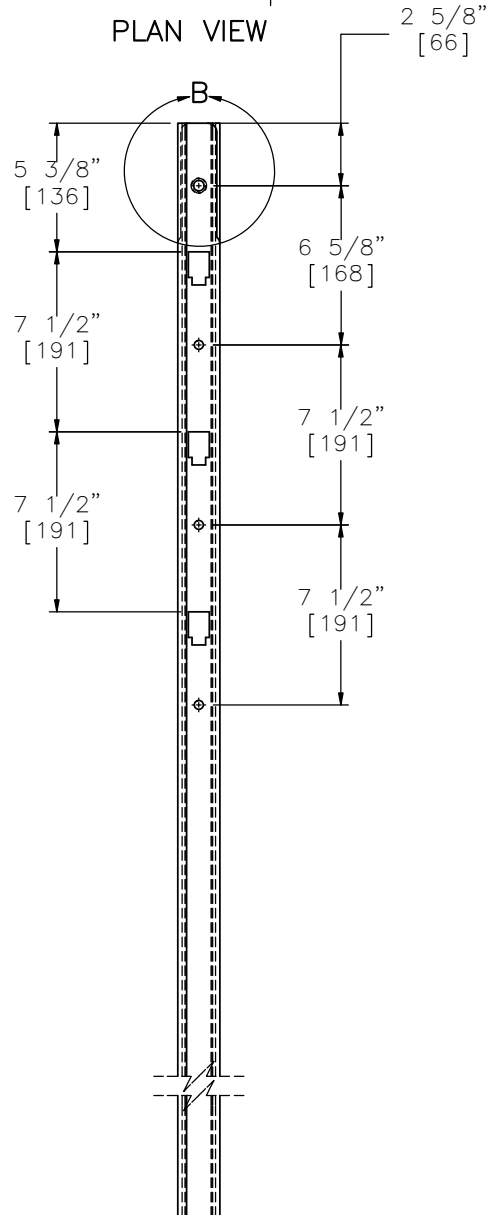
DRAWN BY:
TJD/JEK

REV. BY:
KAL/MP

Post Assembly

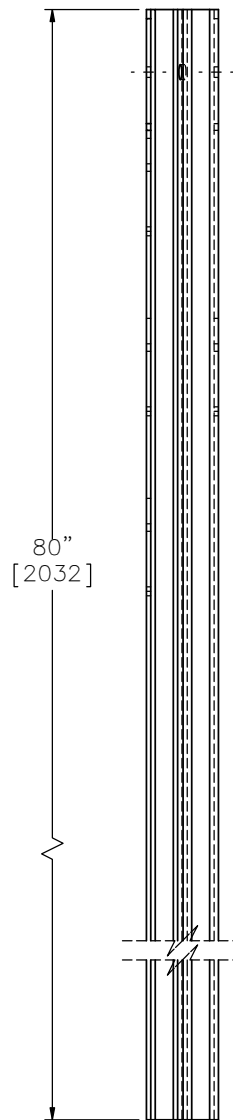


PLAN VIEW

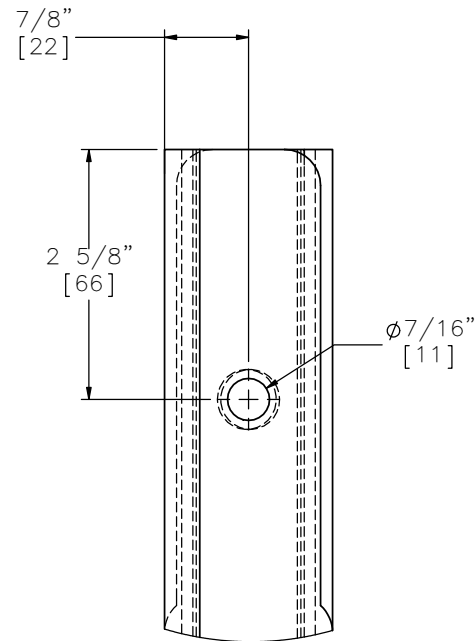


ELEVATION VIEW

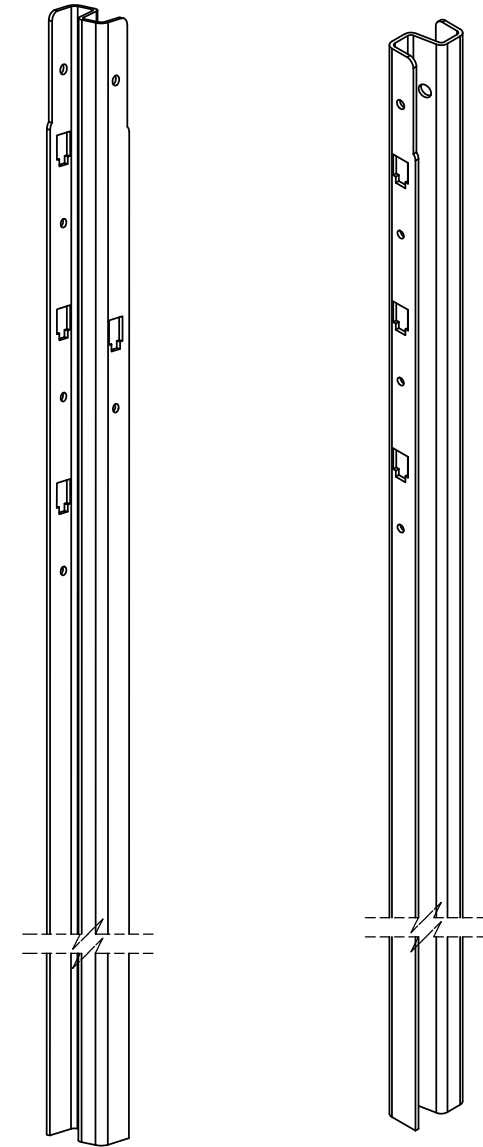
Part b1



PROFILE VIEW

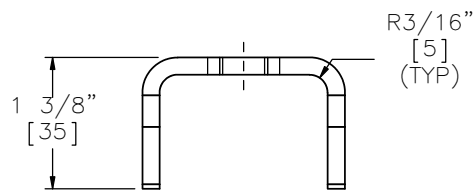


DETAIL B
SCALE 1 : 2

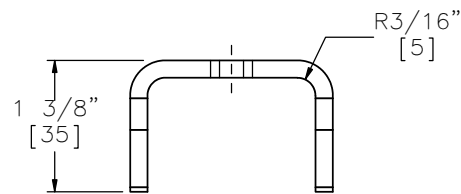


ISOMETRIC VIEW

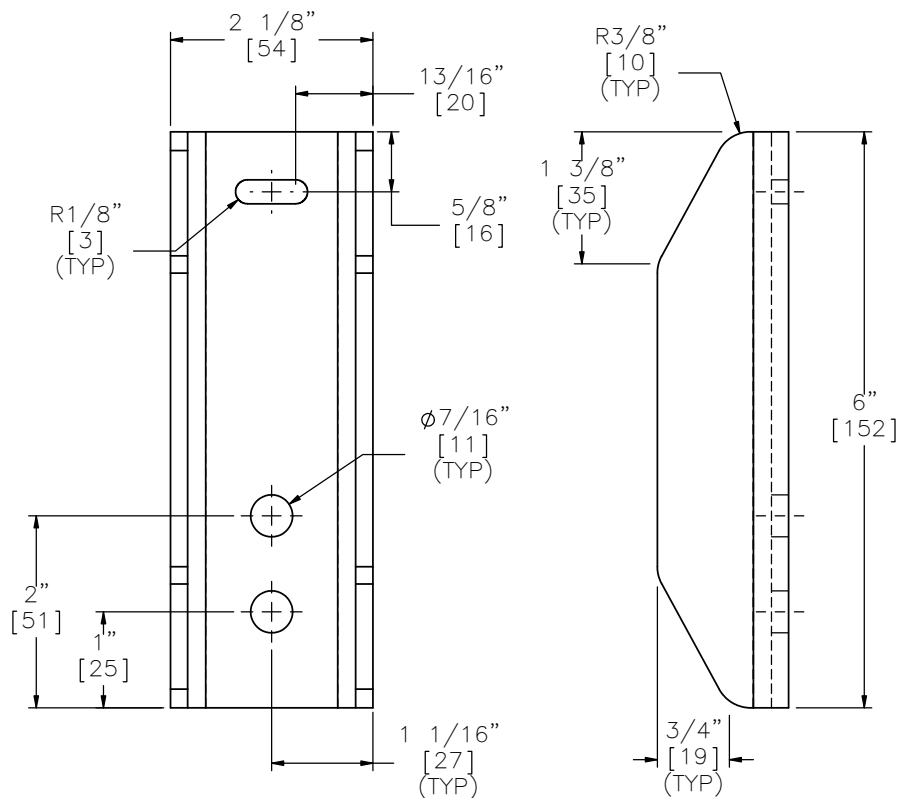
	Cable Post — Midwest Weak Post		SHEET: 3 of 6
	DATE: 2/28/2018		DRAWN BY: TJD/JEK
Midwest Roadside Safety Facility	MWP Details		REV. BY:
	DWG. NAME: Floor_Pan_Test_24_R4	SCALE: 1:8 UNITS: In./mm	KAL/MP



PLAN VIEW



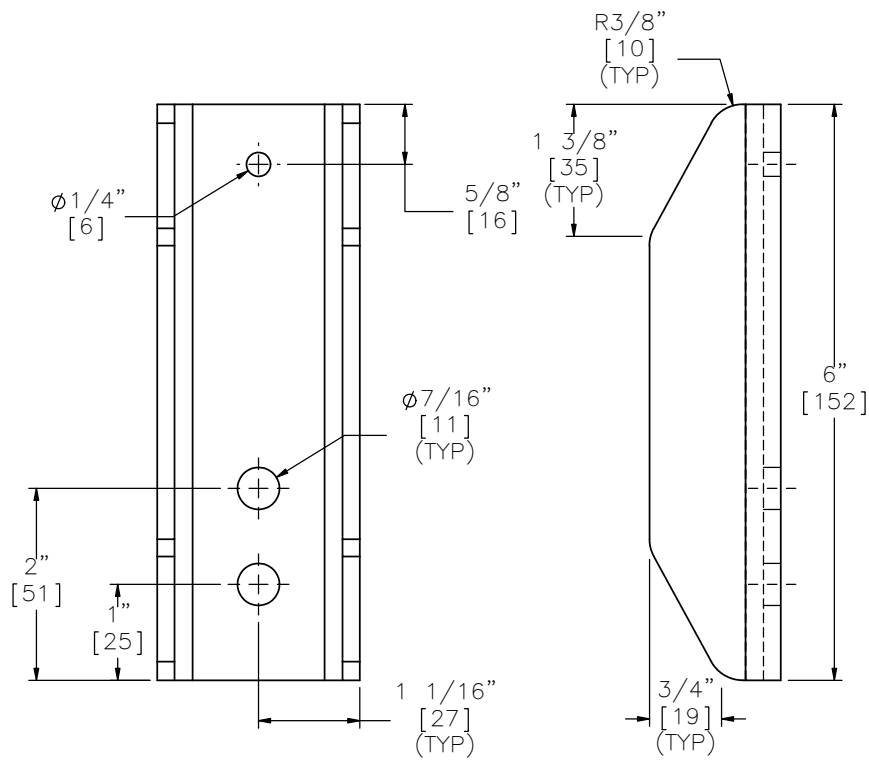
PLAN VIEW



ELEVATION VIEW

PROFILE VIEW

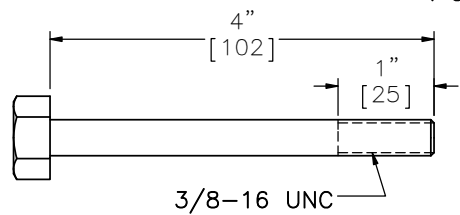
Part c1



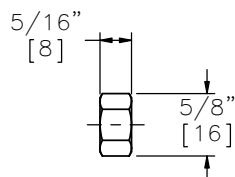
ELEVATION VIEW

PROFILE VIEW

Part c2



Part c3



Midwest Roadside
Safety Facility

Cable Post — Midwest
Weak Post

Steel Cap Details

DWG. NAME.
Floor_Pan_Test_24_R4

SCALE: 1:2
UNITS: In./mm

SHEET:
5 of 6
DATE:
2/28/2018
DRAWN BY:
TJD/JEK
REV. BY:
KAL/MP

Item No.	QTY.	Description	Material Specification
b1	2	3"x1-3/4"x7 Gauge [76x44x4.6] x 79 5/8" [2022] Long Bent Z-Section Post	Hot-Rolled ASTM A1011 HSLA Gr. 50
c1	2	2 1/8"x1 3/8"x7 Gauge [54x35x4.6] x 6" [152] Long Bent Steel Plate	Hot-Rolled ASTM A1011 HSLA Gr. 50
c2	2	2 1/8"x1 3/8"x7 Gauge [54x35x4.6] x 6" [152] Long Bent Steel Plate	Hot-Rolled ASTM A1011 HSLA Gr. 50
c3	2	3/8" [10] Dia. UNC x 4" [102] Long Hex Head Bolt and Nut	Bolt ASTM A449 or ASTM A325/Nut ASTM A563 DH



Midwest Roadside
Safety Facility

Cable Post — Midwest
Weak Post

Bill of Materials

DWG. NAME.
Floor_Pan_Test_24_R4

SCALE: None
UNITS: In.[mm]

SHEET:
6 of 6
DATE:
8/5/2016
DRAWN BY:
MES

REV. BY:
KAL/MP

REV.	DATE OF ISSUE	Page	NATURE OF CHANGES	REVIEWER	REVISED BY
0	5/13/2016		Drawing created from Floor Pan Test 23	–	TJD
1	5/23/2016	1	Note edit. Changed auger hole to concrete sleeve.	KAL	TJD
		5	Updated bolt thread length.		
2	5/25/2016	1	Added concrete sleeve diameter.	KAL	TJD
		2	Changed sheet name.		
		3	Changed sheet name.		
		4	Changed sheet name.		
		5	Changed sheet name. Changed location of bolt hole in post cap.		
		6	Changed sheet scale. Removed hardware guide column.		
3	8/5/2016	6	Changed post description in bill of materials.	KAL	MES
4	2/28/2018	1	Dim add.	MP	JEK