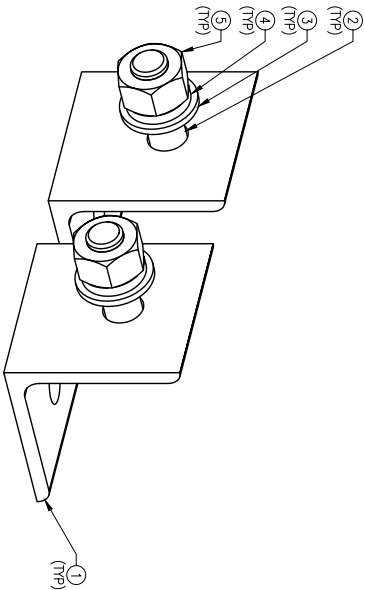




CLIP ANGLE
ISOMETRIC VIEW

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZWSMART-AL333 (CLIP ANGLE)				
ITEM NO.	QTY.	PART NO.	DESCRIPTION	
1	2	AL-333	L 3" X 3" X 1/4" X 3" A36	
2	2	---	BOLT 5/8" X 2" FULL THREAD SAE GR-5	AL333-F1 2.50
3	2	FW-625	5/8" HDG USS FLAT WASHER	--- 0.77
4	2	LW-625	5/8" HDG LOCK WASHER	--- 0
5	2	NUT-625	5/8" HDG HEX NUT	--- 0

GALVANIZED WT 3.27

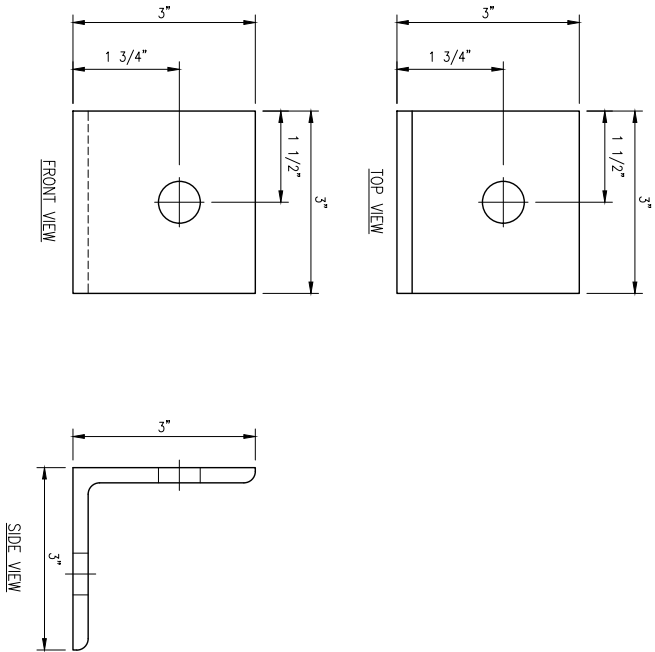
VZW
SMART Tool®
Vendor



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REFERENCE
ONLY

DRAWN BY: JBM	CHECKED BY: ---
REV. DESCRIPTION BY DATE	
Δ FIRST ISSUE JBM 10/08/21	
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Δ	

SHEET TITLE: VZWSMART-AL333 CLIP ANGLE	
SHEET NUMBER: VZWSMART-AL333	REV #: 0



AL333
L 3" X 3" X 1/4" X 3" A36
(1.25 LBS)

- NOTES:
- 1. ALL HOLES ARE 11/16" DIA. UNO
 - 2. HOT-DIPPED GALVANIZED PER ASTM A123.

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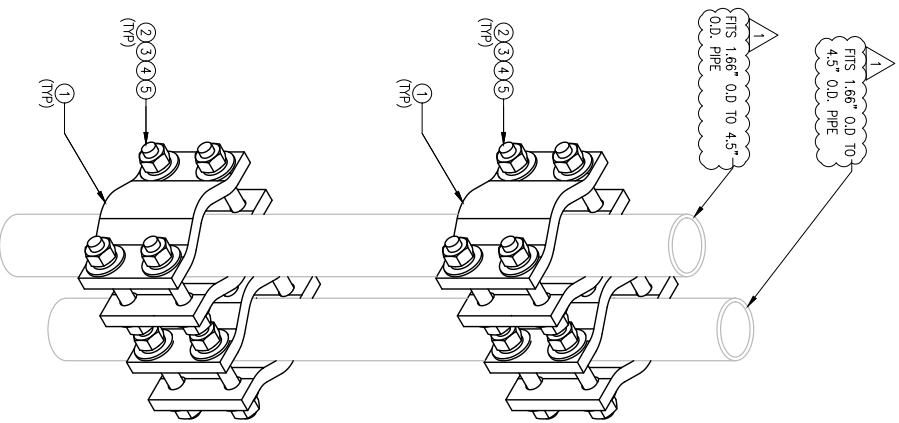
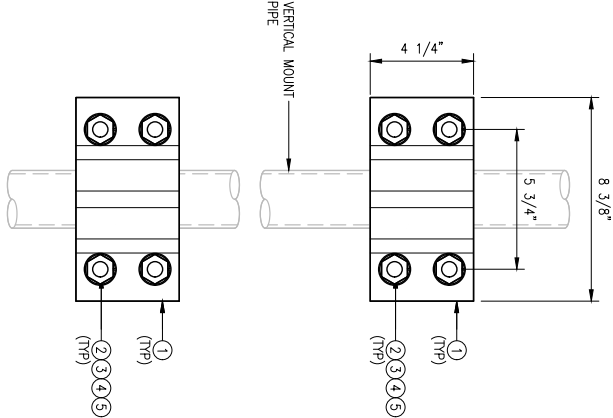
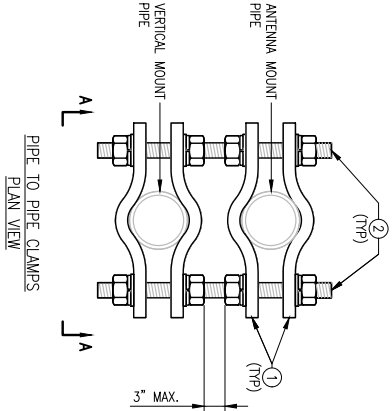
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REFERENCE
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△ FIRST ISSUE	JBM 10/08/21
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SHEET TITLE:

FABRICATION DETAILS

SHEET NUMBER	REV #:
AL333-F1	0



- NOTES:
1. ALL HOLES ARE 11/16" DIA. UNO
 2. HOT-DIPPED GALVANIZED PER ASTM A123.
 3. FT UP TO 4.5" O.D. PIPE

VZSMART-MSK3D (PIPE TO PIPE CLAMPS)				
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET # WT
1	8	V-CLAMP	PL 1/2" X 4 1/4" X 8 5/8" A36 BEND PLATE	MSK3D-F1 42
2	8	---	THREADED ROD 5/8" DIA. X 1'-0" (F _y = 36KSI HDG)	--- --
3	32	FW-625	5/8" HDG USS FLAT WASHER	--- --
4	32	LW-625	5/8" HDG LOCK WASHER	--- --
5	32	NUT-625	5/8" HDG HEX NUT	--- 0
GALVANIZED WT				42

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DRAWN BY: BT

CHECKED BY: HMA/KW

REV. DESCRIPTION

BY DATE

ENGR ISSUE

BT 05/21/20

REVISED

RL 06/23/23

SHEET TITLE:

VZSMART-MSK3D

PIPE TO PIPE CLAMPS

SHEET NUMBER:

VZSMART-MSK3D

REV #:

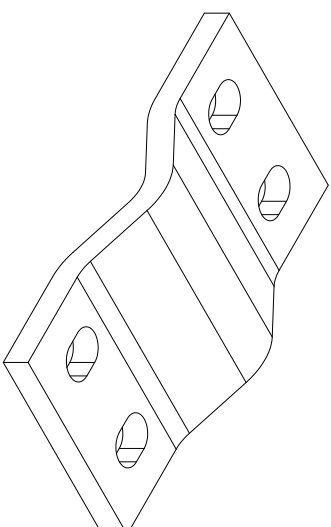
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REFERENCE
ONLY

V-CLAMP

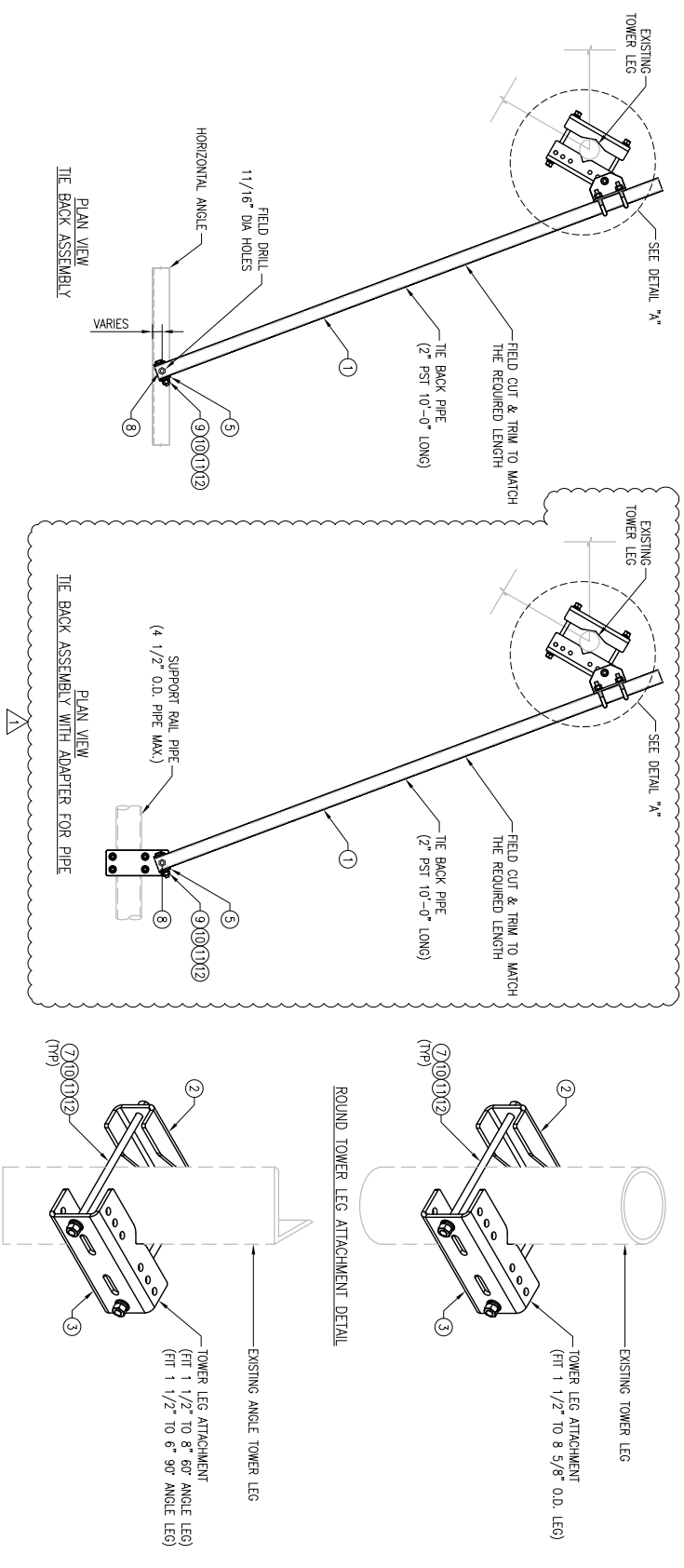
PL 1/2" X 4 1/4" X 8 5/8" A36 BENT PLATE



V-CLAMP
ISOMETRIC VIEW

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

DRAWN BY: ET		CHECKED BY: HUA/AN	
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	ET	09/21/20
△	REVISED	RL	09/23/23
△			
△			
△			
SHEET TITLE: _____			
FABRICATION DETAILS			
SHEET NUMBER:		REV #:	
MSK3D-F1		1	



ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PS12375-10	2\"/>	SFK1-F1	38
2	1	BP625-12	PL 3/8\"/>	SFK1-F2	11
3	1	BP11125-12	PL 3/8\"/>	SFK1-F3	14
4	1	BP6-9375	PL 3/8\"/>	SFK1-F4	6
5	1	BP2-875	PL 1/4\"/>	SFK1-F5	1
6	2	MS02-625-300-500	RU-BOLT 5/8\"/>	RBC-1	2
7	2	---	THREADED ROD 5/8\"/>	---	0
8	2	---	BOLT 5/8\"/>	---	0
9	1	---	BOLT 5/8\"/>	---	0
10	15	FW-625	5/8\"/>	---	1
11	15	LW-625	5/8\"/>	---	0
12	15	NUT-625	5/8\"/>	---	2
13	1	PL375-4511	PL 3/8\"/>	SFK1-F1	4
14	1	V-CLAMP	PL 1/2\"/>	SFK1-F5	5
15	4	---	BOLT 5/8\"/>	---	0

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

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REV. DESCRIPTION BY DATE

01/01/2020 BT 05/08/20

02/01/2021 BT 04/09/21

03/01/2022 BT 09/23/22

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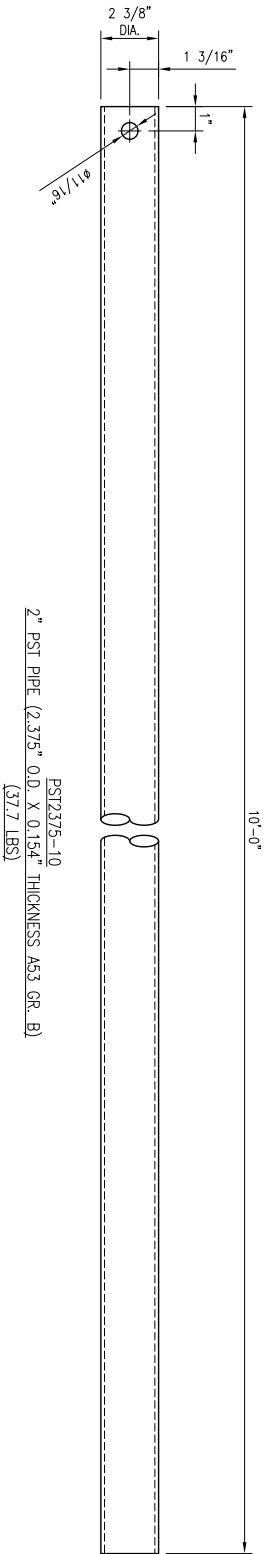
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SHEET NUMBER

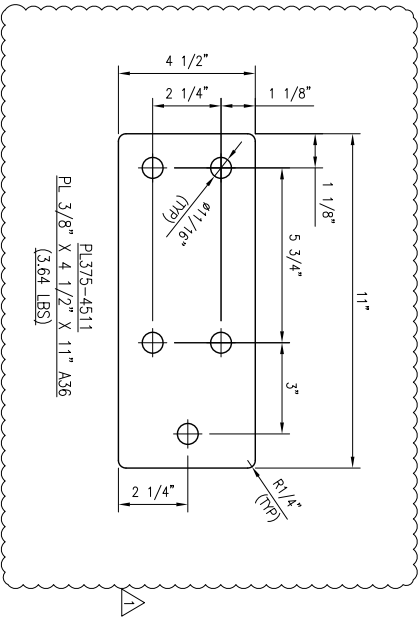
REV #

VZWSMART-SFK1

2



PS12375-10
2" PST PIPE (2.375" O.D. X 0.154" THICKNESS A53 GR. B)
(37.7 LBS)



NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

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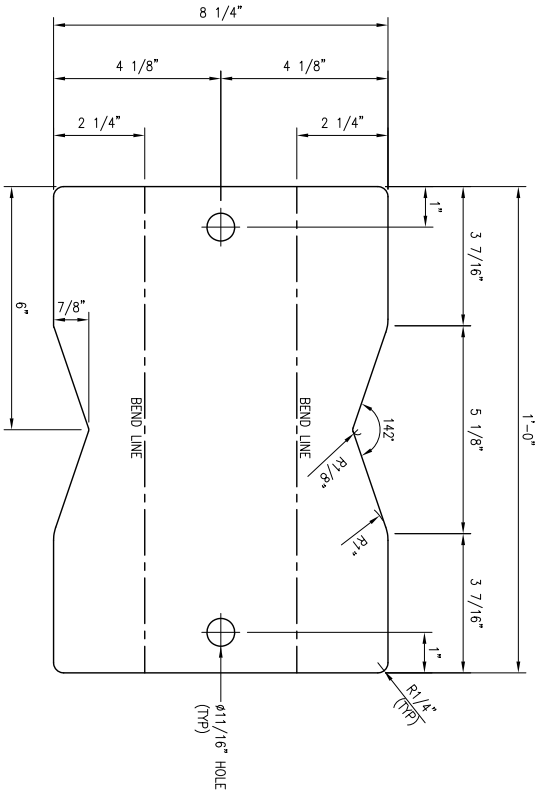
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REV. DESCRIPTION BY DATE	
△ FIRST ISSUE BT 05/08/20	
△ REVISED BT 04/19/21	
△ REVISED AM 09/23/23	
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SHEET TITLE:

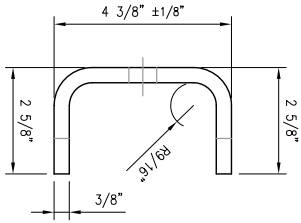
FABRICATION DETAILS

SHEET NUMBER	REV #:
SFK1-F1	2



BEFORE BENDING

BP825-12
PL 3/8" X 8 1/4" X 1'-0" A36 BENT PLATE
(10.67 LBS.)



AFTER BENDING

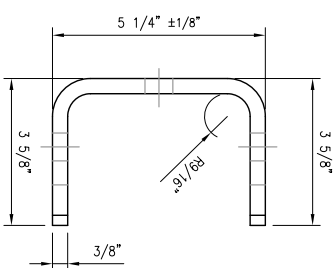
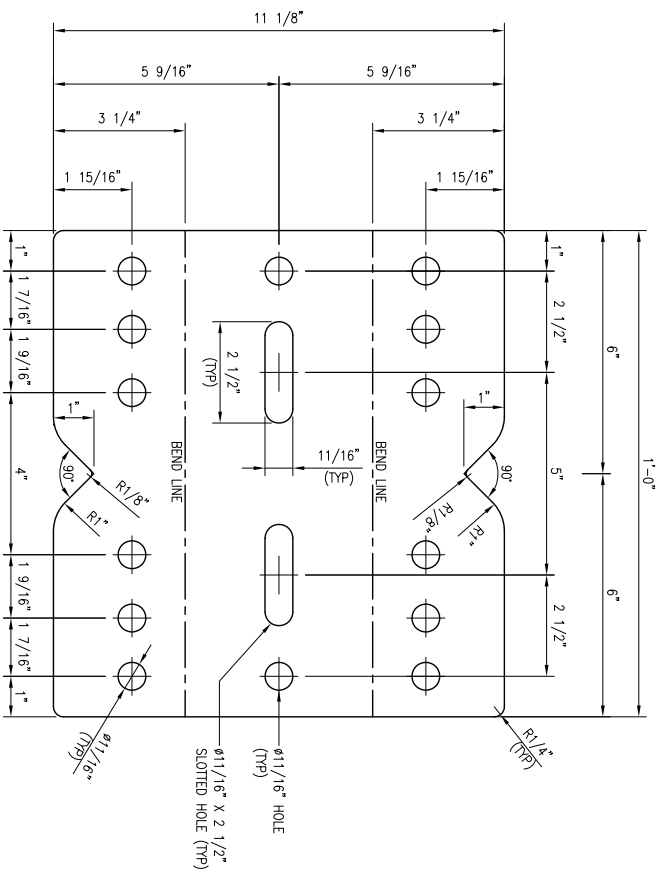
NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

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Δ REVISED BT 04/10/21	
Δ REVISED JW 09/23/23	
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SHEET TITLE:	
FABRICATION DETAILS	
SHEET NUMBER	REV #:
SFK1-F2	2



BEFORE BENDING

BP1125-12

PL 3/8" X 11 1/8" X 1'-0" A36 BENT PLATE

(14.39 LBS)

NOTES

1. HOT-DIPPED GALVANIZED PER ASTM A123.

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△ ENCL ISSUE	BT 05/08/20
△ REVISED	BT 04/10/21
△ REVISED	JM 09/23/23
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SHEET TITLE:

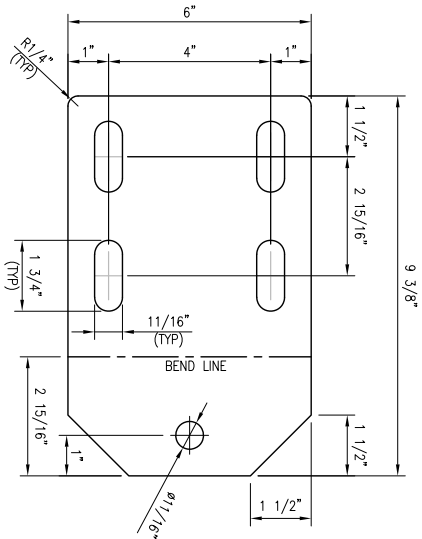
FABRICATION DETAILS

SHEET NUMBER

SFK1-F3

REV #:

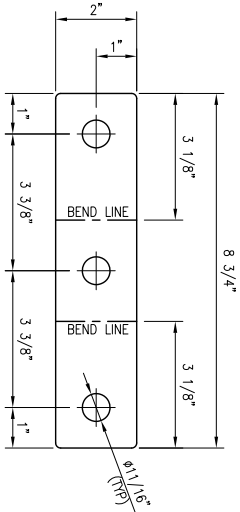
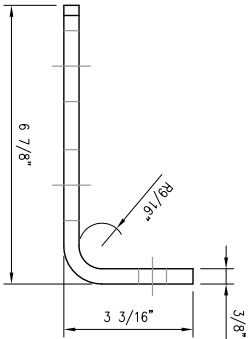
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BEFORE BENDING

BP6-9375
PL 3/8" X 6" X 9 3/8" A36 BENT PLATE
(6.07 LBS.)

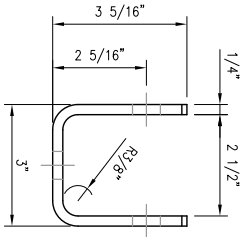
AFTER BENDING



BEFORE BENDING

BP2-875
PL 1/4" X 2" X 8 3/4" A36 BENT PLATE
(1.27 LBS.)

AFTER BENDING



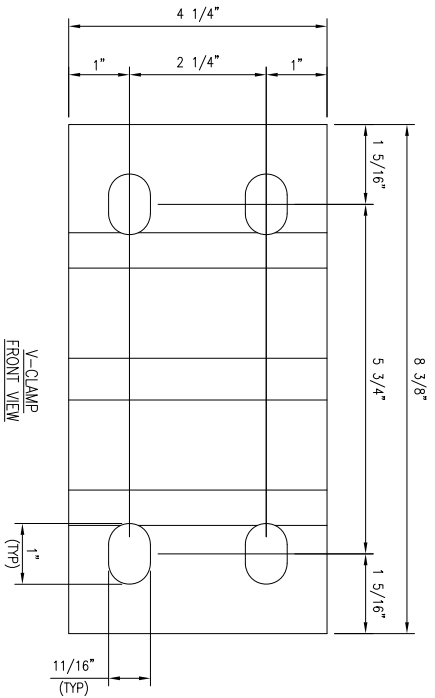
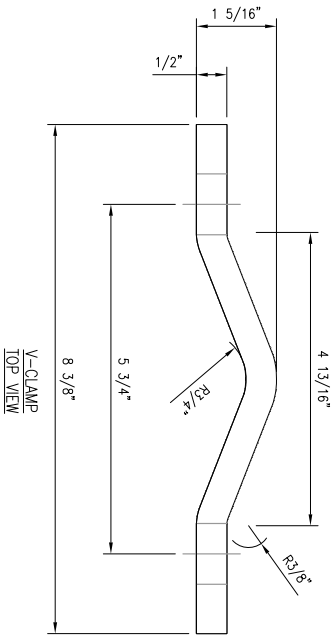
NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

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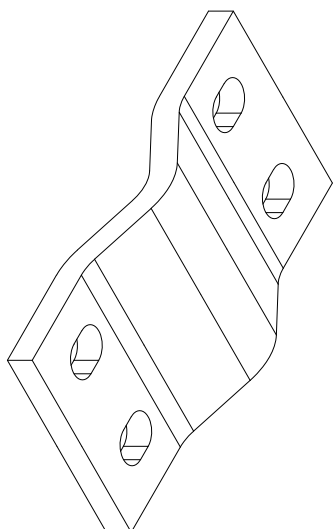


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△ REVISED	BT 04/10/21
△ REVISED	JM 09/23/23
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SHEET TITLE:	
FABRICATION DETAILS	
SHEET NUMBER	REV #:
SFK1-F4	2



V-CLAMP
PL 1/2" X 4 1/4" X 8 5/8" A36 BENT PLATE



NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

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Vendor



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△ REVISED AM 09/23/23	
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SHEET TITLE:	
FABRICATION DETAILS	
SHEET NUMBER	REV #:
SFK1-F5	2