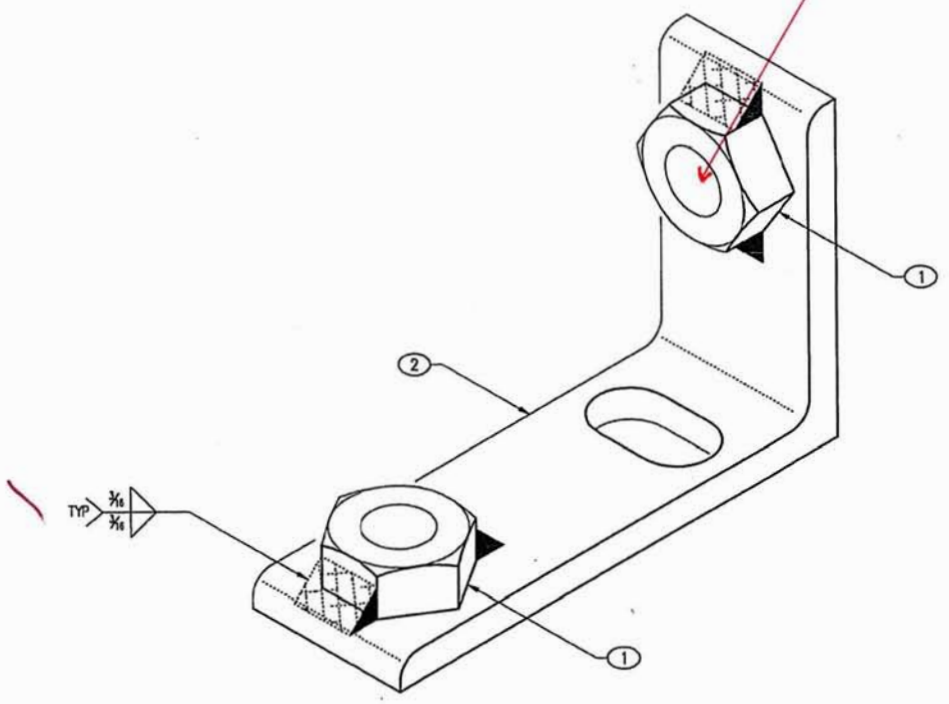
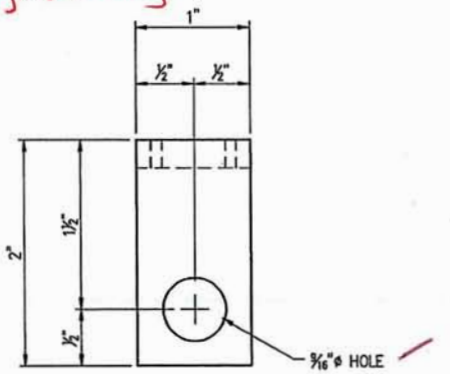
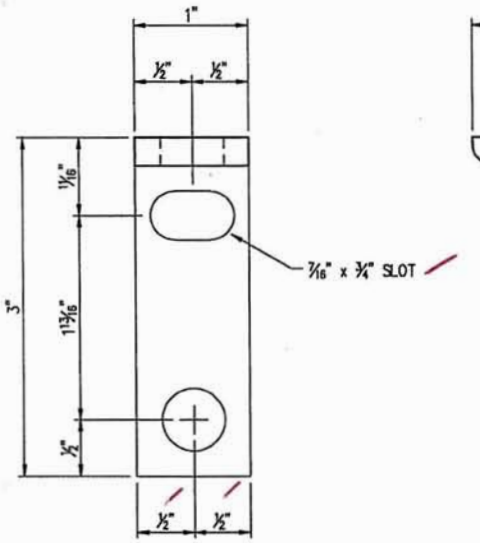
APPROVED AS NOTED
Washington State
Department of Transportation
HQ Traffic Operations Office
DATE December 8, 2009 TAT

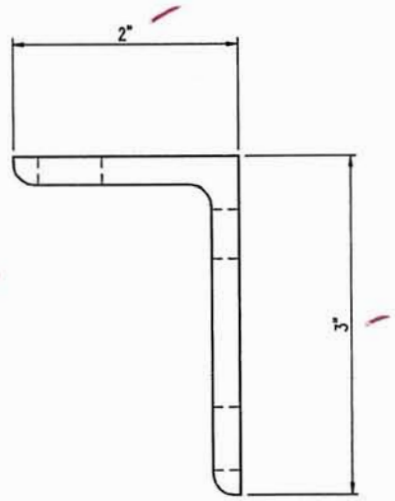
chase threads after hot-dip galvanizing



BOLT DOWN ASSEMBLY







PART No. 2

STRUCTURAL NOTES

1. MATERIAL: ASTM A36 STRUCTURAL STEEL STANDARDS
2. ASSEMBLY: AWS D1.1 WELDING STANDARDS
3. COATING: ASTM A123 HOT-DIP GALVANIZING STANDARDS

BILL OF MATERIAL				
PART	QTY	U/M	DESCRIPTION	ITEM #
1	2	ea	1/2" Hex Nut stainless steel	OPC
	.34	lbs	Angle 2" x 3" x 1/4"	010-5510220-000
	1	lbs	Galvanizing Per Lb.	010-5800000-000

LAYOUT CUT LIST			
PART	QTY	DESCRIPTION	SIZE
2	1	Angle 2" x 3" x 1/4"	1"

LTR.	REVISION	DATE	BY

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SALES		DATE	6/17/08
DESIGNER	PAR	WEIGHT	27 lbs
CHECKED	CC	CALC NO	

UTILITY VAULT™ a division of Oldcastle Precast, Inc.
PO Box 588 Auburn, WA 98071-0588
Ph: 800-892-1538 Fax: 253-735-4201
Auburn, WA / Wilsonville, OR / Chandler, AZ / Pleasanton / Livermore / Fontana / San Diego / Stockton, CA

J11 GALVANIZED BOLT DOWN ANGLE

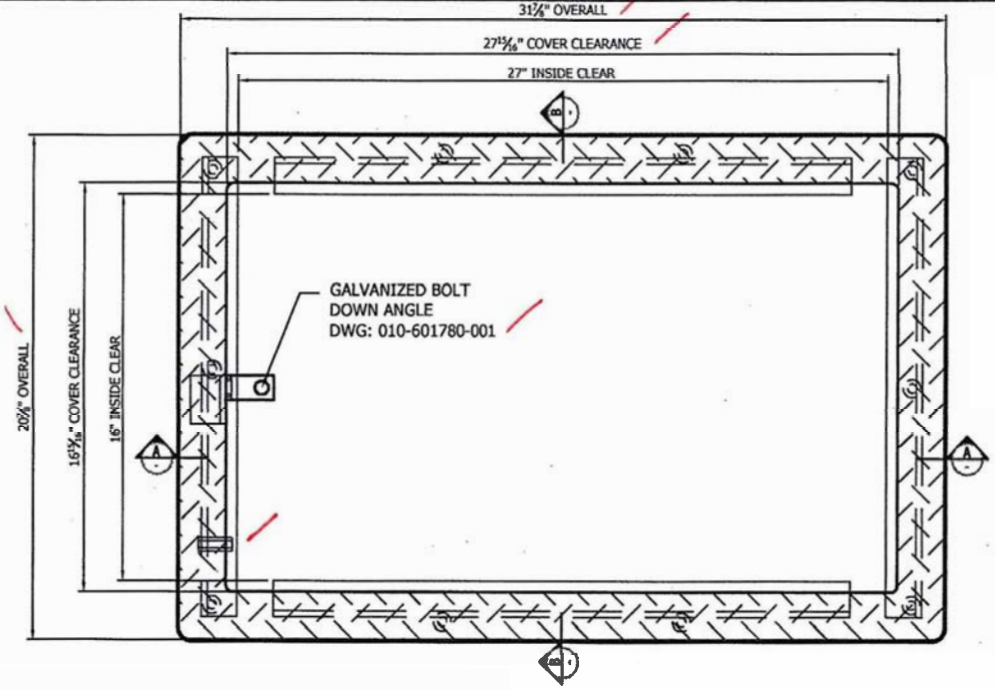
STANDARD PRODUCT

CUSTOMER: STANDARD PRODUCT

DRAWING NUMBER: 010-6010780-001

SHEET: 1 OF 1

REVISION:



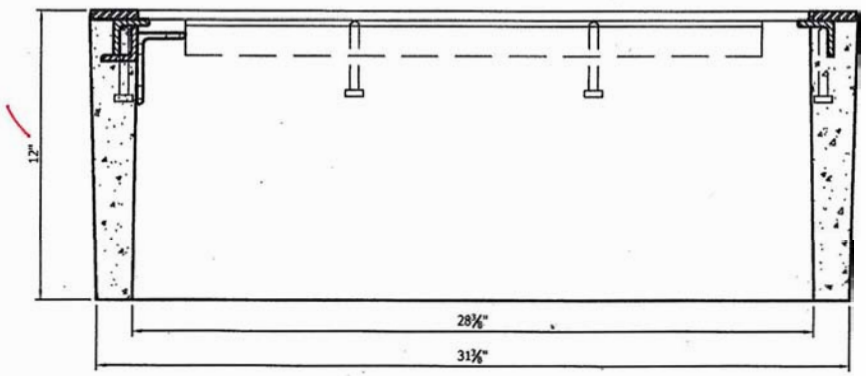
PLAN VIEW

STRUCTURAL NOTES

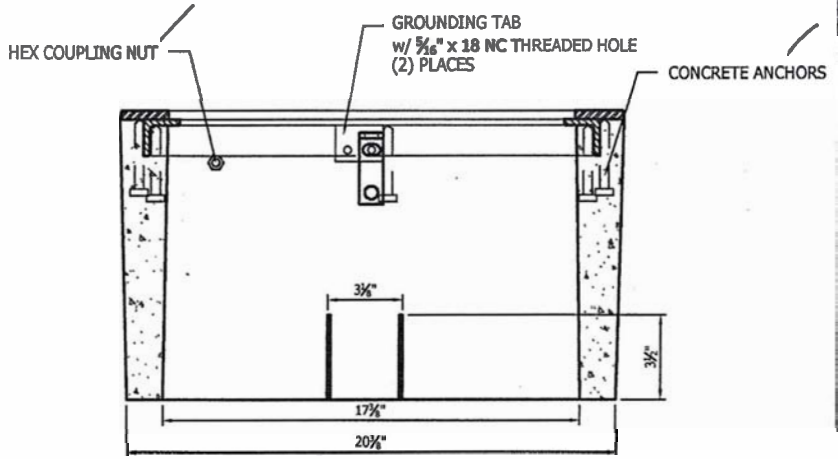
1. MATERIAL: ASTM A36 STRUCTURAL STEEL STANDARDS
   CONCRETE MIX-T7
2. ASSEMBLY: AWS D1.1 WELDING STANDARDS
3. COATING: THE STANDARD DUTY CONCRETE JUNCTION BOX STEEL FRAME, LID SUPPORT, AND LID SHALL BE PAINTED WITH A BLACK PAINT CONTAINING RUST INHIBITORS OR PAINTED WITH A SHOP APPLIED, INORGANIC ZINC PRIMER IN ACCORDANCE WITH SECTION 6-07.3, OR HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A 111.
4. LOADS: SUITABLE FOR AASHTO H-20 WHEEL LOADING IN OFF-STREET LOCATIONS WHERE NOT SUBJECTED TO HIGH-DENSITY TRAFFIC

GENERAL NOTES

1. COVERS AVAILABLE TO USE WITH THIS FRAME:
   6010850 (J11-TYPE2-DP)
   6010852 (J11-TYPE2-DP-BD)
2. FOR DIAMOND PLATE FRAME DETAILS SEE DWG: 010-6010840-001 REV E.



SECTION A-A



SECTION B-B

APPROVED
Washington State
Department of Transportation
HQ Traffic Operations Office
DATE February 10, 2010 TAT

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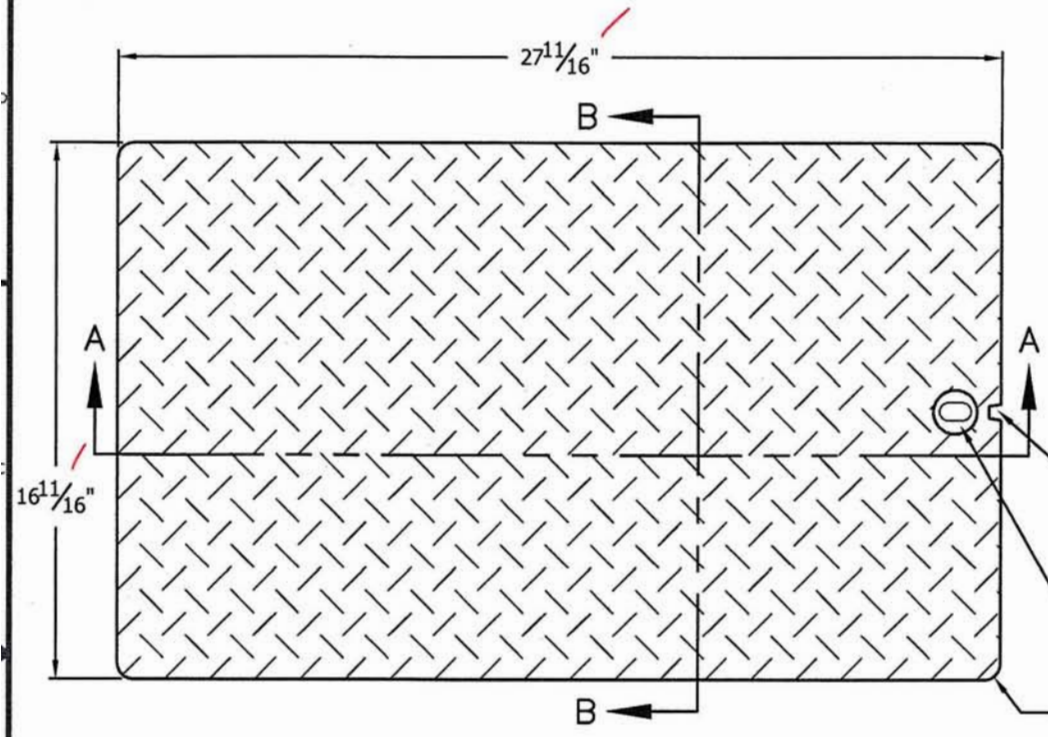
TOLERANCE:
.XXX = +/- .0005
.XX = +/- .005
.X = +/- .050
FRACTION = +/- 1/4
ANGLE = +/- 1°

DRAWN	T. BARKER	02/09/10
CHECKED	A. LOUCKS	AL
QA		
MFG		
APPROVED		

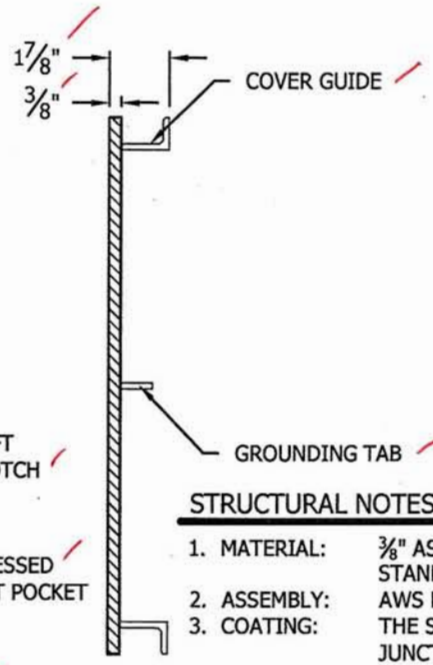
TITLE: WSDOT TYPE 2 CONCRETE BOX

SIZE	DWG NO	REV
A	WDOT-2-CONCRETEBOX-H	H

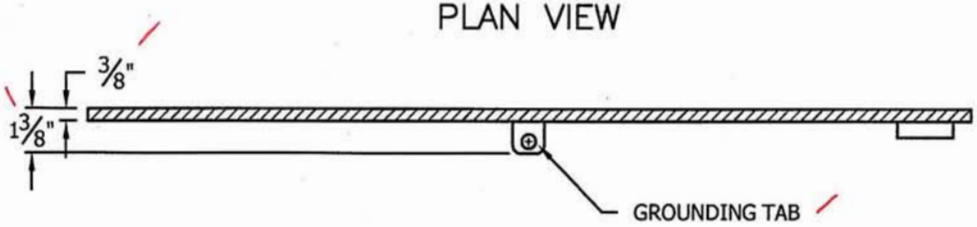
SCALE 1-1/2" = 1'-0" SHEET 1 OF 1



PLAN VIEW



SECTION B–B



SECTION A–A

STRUCTURAL NOTES

1. MATERIAL: 3/8" ASTM A36 STRUCTURAL STEEL STANDARDS.
2. ASSEMBLY: AWS D1.1 WELDING STANDARDS.
3. COATING: THE STANDARD DUTY CONCRETE JUNCTION BOX STEEL FRAME, LID SUPPORT, AND LID SHALL BE PAINTED WITH A BLACK PAINT CONTAINING RUST INHIBITORS OR PAINTED WITH A SHOP APPLIED, INORGANIC ZINC PRIMER IN ACCORDANCE WITH SECTION 6-07.3, OR HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A 111.
4. LOADS: SUITABLE FOR ASHTO H-20 WHEEL LOADING IN OFF-STREET LOCATIONS WHERE NOT SUBJECTED TO HIGH-DENSITY TRAFFIC

GENERAL NOTES

1. FRAMES AVAILABLE TO USE WITH THIS COVER
   - 6010840 (J11-TYPE 2-DP FRAME)

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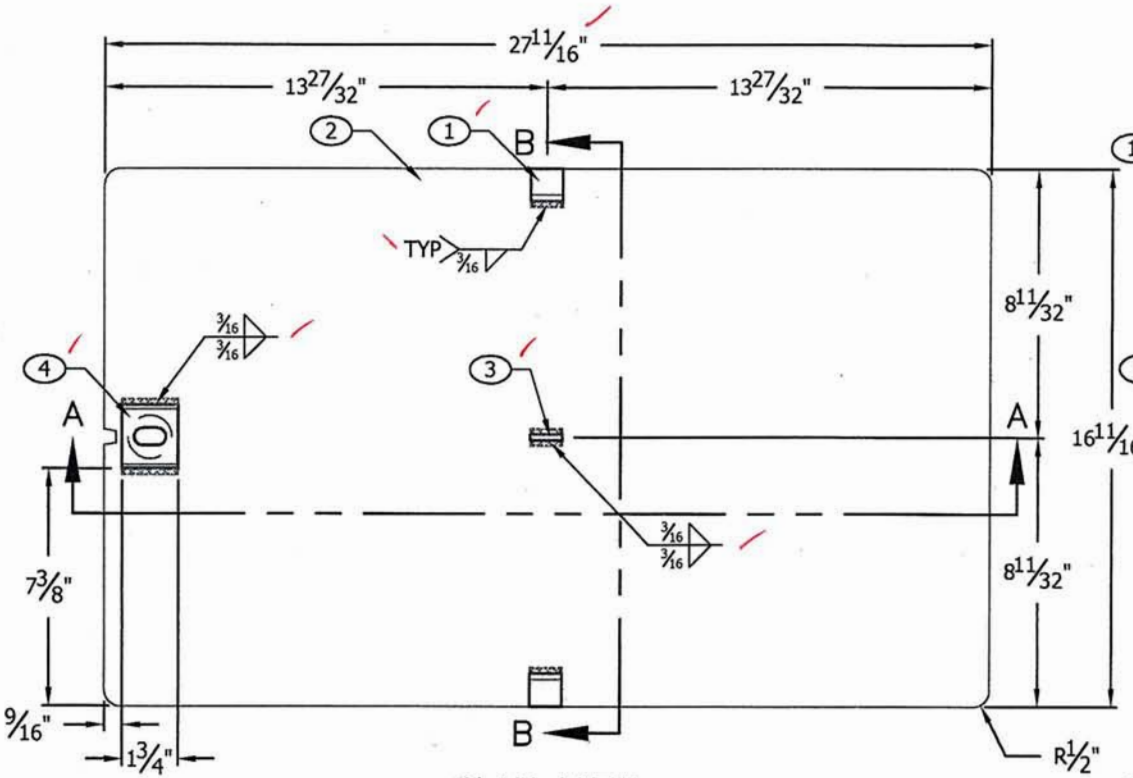
.X = +/- .050
FRACTION = +/- 1/16
ANGLE = +/- 1°

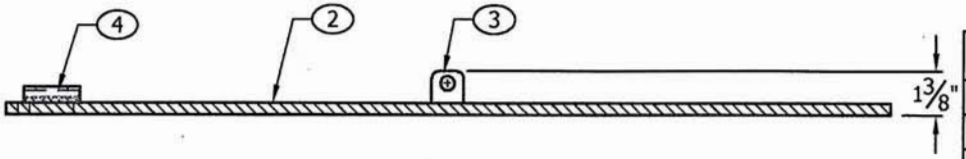
DRAWN	T. BARKER	02/09/10
CHECKED	A. LOUCKS	AJL
QA		
MFG		
APPROVED		

TITLE: J11-TYPE2-DP-BD

SIZE	DWG NO	REV
A	WDOT-2-DP-BD-COVER-F	F

SCALE 2" = 1'-0"
SHEET 1 OF 3





SECTION A–A

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Department of Transportation
HQ Traffic Operations Office
DATE February 10, 2010 TAT

LAYOUT CUT LIST			
PART	QTY	DESCRIPTION	SIZE
1	2	Angle 1-1/2" x 1" x 3/16"	1"
2	1	Diamond Plate16-11/16"x27-11/16"x3/8"	SHT 3
3	1	Flat Bar 3/16" x 1"	SHT 3
4	1	Channel 2" x 1/2" x 1/8"	SHT 3

BILL OF MATERIALS				
PART	QTY	U/M	DESCRIPTION	ITEM #
	.19	lbs	Angle 1-1/2" x 1" x 3/16"	010-5510200-000
	0.036	sht	Diamond Plate16-11/16"x27-11/16"x3/8"	
	0.083	lbs	Angle 3/16" x 1"	010-5520030-000
	0.24	lbs	Channel 2" x 1/2" x 1/8"	010-5520229-000
	46	lbs	Galvanizing Per Lb.	010-5800000-000

SHOP NOTES

1. OVERALL DIMENSIONS HAVE A MAXIMUM ALLOWABLE TOLERANCE OF ±1/16".
2. ALL WELDS ARE 3/16" FILLET WELDS, UNLESS OTHERWISE NOTED.
3. GRIND ALL SHARP EDGES.
4. THE STANDARD DUTY CONCRETE JUNCTION BOX STEEL FRAME, LID SUPPORT, AND LID SHALL BE PAINTED WITH A BLACK PAINT CONTAINING RUST INHIBITORS OR PAINTED WITH A SHOP APPLIED, INORGANIC ZINC PRIMER IN ACCORDANCE WITH SECTION 6-07.3, OR HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A 111.

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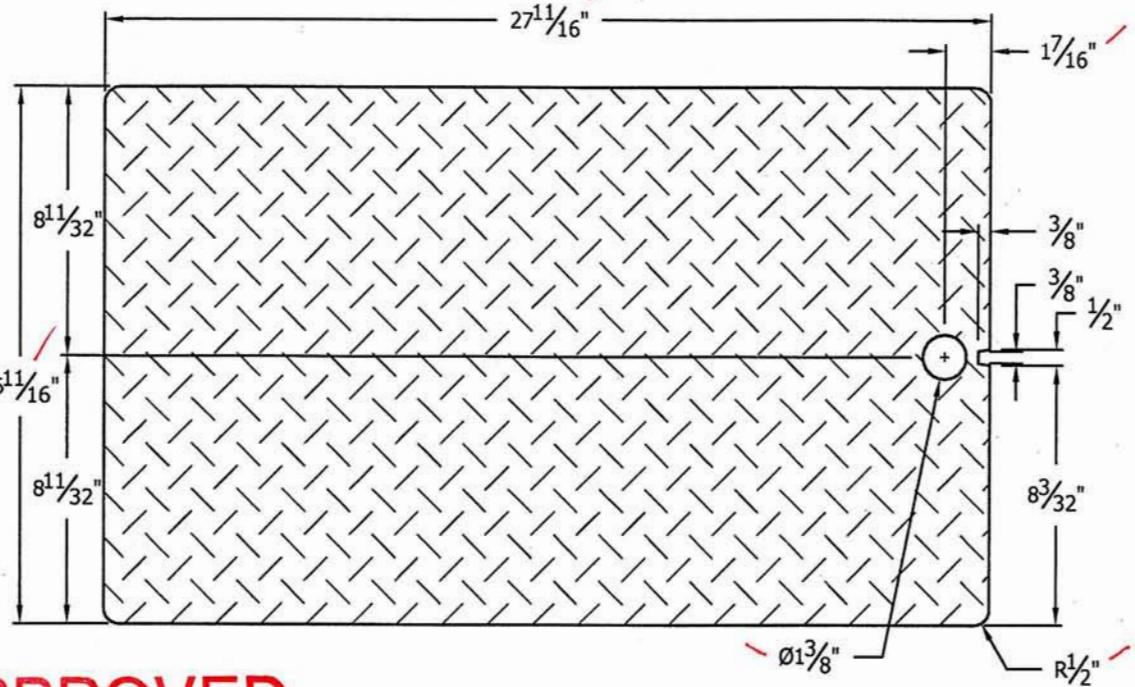
.X = +/- .050
FRACTION = +/- 1/16
ANGLE = +/- 1°

DRAWN	T. BARKER	02/09/10
CHECKED	A. LOUCKS	
QA		
MFG		
APPROVED		

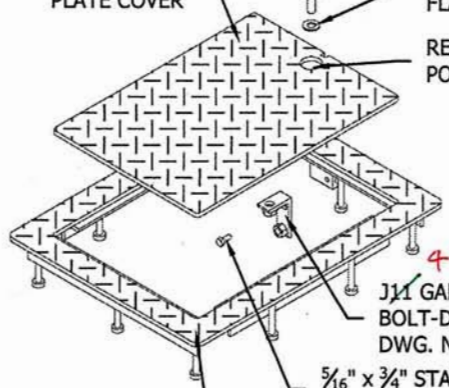
TITLE: J11-TYPE2-DP-BD

SIZE: A | DWG NO: WDOT-2-DP-BD-COVER-F | REV: F

SCALE: 2" = 1'-0"



J40-10



DOOR/FRAME ASSEMBLY DETAIL
SCALE: 1" = 1'-0"

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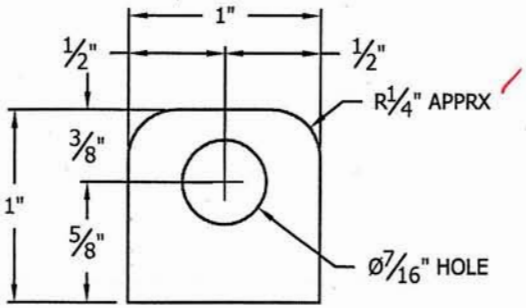
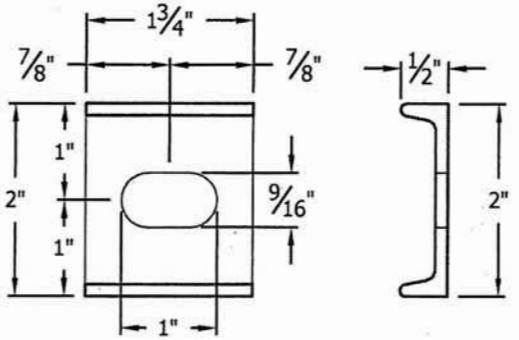
HQ Traffic Operations Office
DATE February 10, 2010 TAT

PART NO. 2
SCALE: 2" = 1'-0"



PART NO. 3
SCALE: 1'-0" = 1'-0"



PART NO. 4
SCALE: 6" = 1'-0"

LAYOUT CUT LIST			
PART	QTY	DESCRIPTION	SIZE
2	1	Diamond Plate 16-11/16" x 27-11/16" x 3/8"	
3	1	Flat Bar 3/16" x 1"	1
4	1	Channel 2" x 1/2" x 1/8"	1 3/4

SHOP NOTES

1. PLASMA PROGRAM NAME: J11-TYPE2-DP-BD
2. CUT w/DAIMOND PATTERN UP

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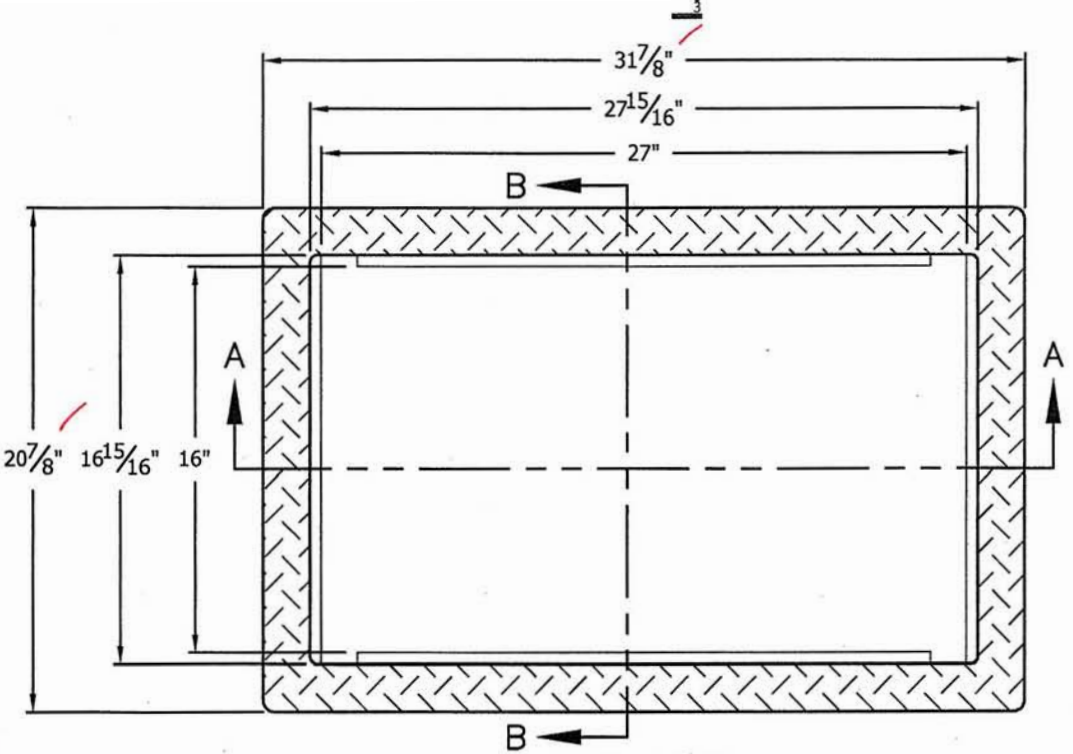
.X = +/- .050
FRACTION = +/- 1/16
ANGLE = +/- 1°

DRAWN	T. BARKER	02/09/10
CHECKED	A. LOUCKS	AL
QA		
MFG		
APPROVED		

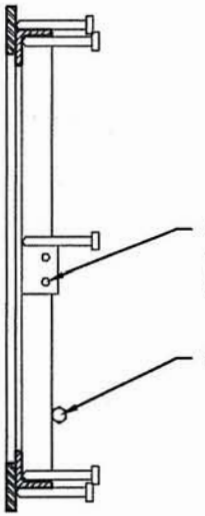
TITLE: J11-TYPE2-DP-BD

SIZE	DWG NO	REV
A	WDOT-2-DP-BD-COVER-F	F

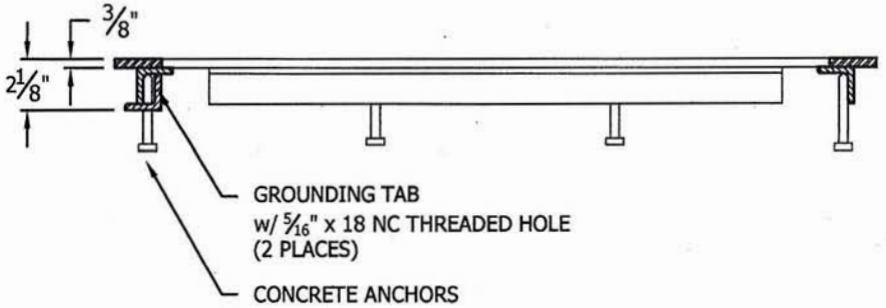
SCALE: AS NOTED
SHEET 3 OF 3



PLAN VIEW



SECTION B–B



SECTION A–A

STRUCTURAL NOTES

1. MATERIAL: 3/8" ASTM A36 STRUCTURAL STEEL STANDARDS.
2. ASSEMBLY: AWS D1.1 WELDING STANDARDS.
3. COATING: THE STANDARD DUTY CONCRETE JUNCTION BOX STEEL FRAME, LID SUPPORT, AND LID SHALL BE PAINTED WITH A BLACK PAINT CONTAINING RUST INHIBITORS OR PAINTED WITH A SHOP APPLIED, INORGANIC ZINC PRIMER IN ACCORDANCE WITH SECTION 6-07.3, OR HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A 111.
4. LOADS: SUITABLE FOR ASHTO H-20 WHEEL LOADING IN OFF-STREET LOCATIONS WHERE NOT SUBJECTED TO HIGH-DENSITY TRAFFIC

GENERAL NOTES

1. COVERS AVAILABLE TO USE WITH THIS FRAME
   - 6010850 (J11-TYPE 2-DP)
   - 6010852 (J11-TYPE 2 -DP-BD)

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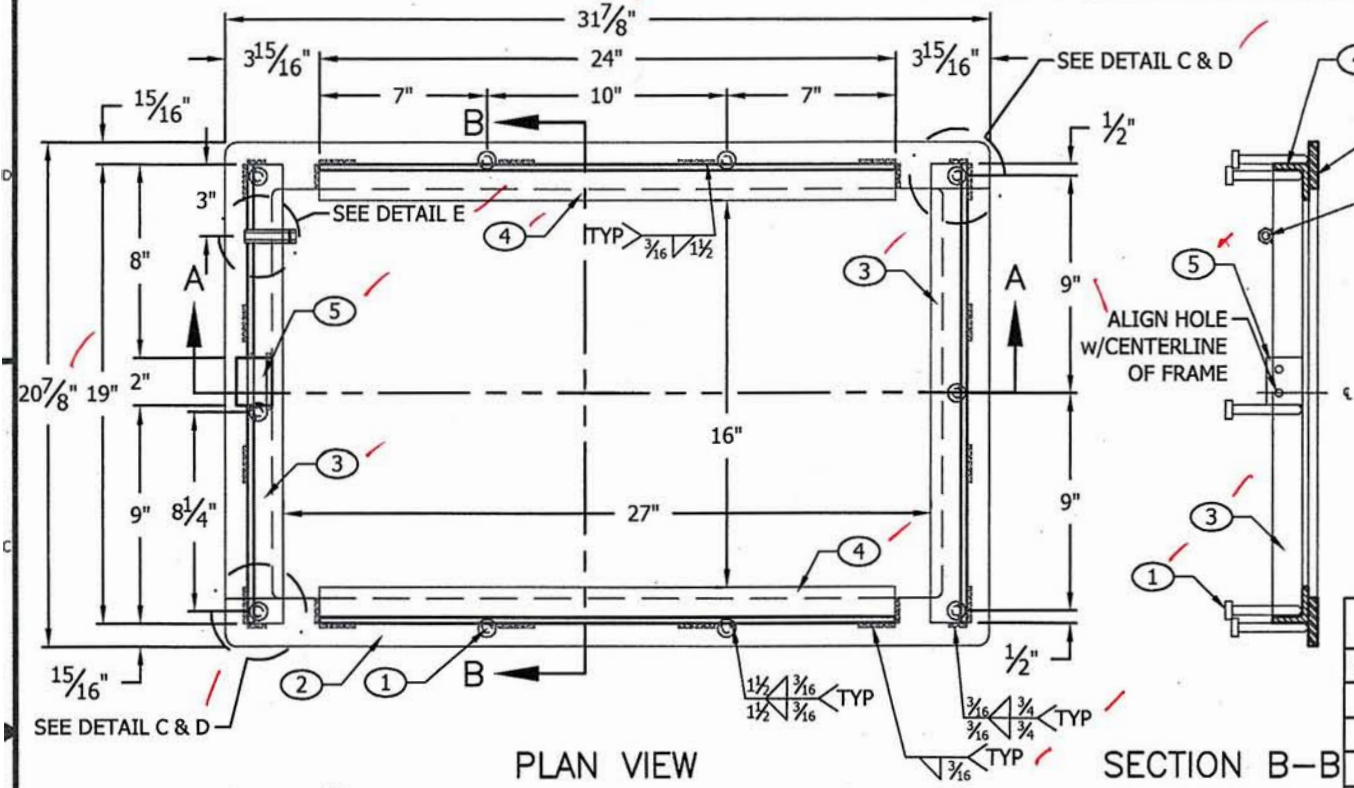
.XX = +/- .005
.X = +/- .050
FRACTION = +/- 1/16
ANGLE = +/- 1°

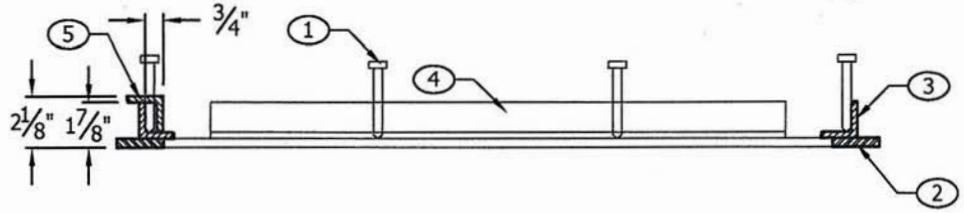
DRAWN	T. BARKER	02/09/10
CHECKED	A. LOUCKS	
QA		
MFG		
APPROVED		

TITLE: J11-TYPE2-DP-FRAME

SIZE	DWG NO	REV
A	WDOT-2-DP-FRAME-F	F

SCALE 1-1/2" = 1'-0" SHEET 1 OF 3





SECTION A–A

SHOP NOTES

1. OVERALL DIMENSIONS HAVE A MAXIMUM ALLOWABLE TOLERANCE OF ±1/16".
2. ALL WELDS ARE 3/16" FILLET WELDS, UNLESS OTHERWISE NOTED.
3. GRIND ALL SHARP EDGES.
4. THE STANDARD DUTY CONCRETE JUNCTION BOX STEEL FRAME, LID SUPPORT, AND LID SHALL BE PAINTED WITH A BLACK PAINT CONTAINING RUST INHIBITORS OR PAINTED WITH A SHOP APPLIED, INORGANIC ZINC PRIMER IN ACCORDANCE WITH SECTION 6-07.3, OR HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A 111.

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HQ Traffic Operations Office
DATE February 10, 2010 TAT

LAYOUT CUT LIST			
PART	QTY	DESCRIPTION	SIZE
2	2	Diamond Plate 60" x 120" x 3/8"	SHT 3
3	2	Angle 1-1/2" x 1-1/2" x 1/4"	19"
4	2	Angle 1-1/2" x 1-1/2" x 1/4"	24"
5	1	Angle 1-1/2" x 1-1/2" x 1/4"	SHT 3

BILL OF MATERIALS				
PART	QTY	U/M	DESCRIPTION	ITEM #
1	10	ea	Stud 3/8" x 3-1/8"	010-5910455-000
	.053	sht	Diamond Plate 60" x 120" x 3/8"	
	17.16	lbs	Angle 1-1/2" x 1-1/2" x 1/4"	010-5510211-000
	36	lbs	Galvanizing Per Lb.	010-5800000-000
6	1	ea	5/16" x 1-3/4" NC SS Coupling Nut	OPC
7	1	ea	5/16" x 3/4" NC SS Hex Bolt	OPC
8	1	ea	5/16" SS Washer	OPC

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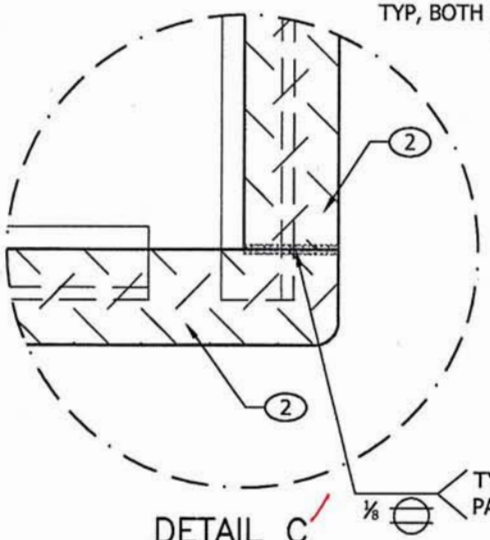
.XXX = +/- .0005
.XX = +/- .005
.X = +/- .050
FRACTION = +/- 1/16
ANGLE = +/- 1°

DRAWN	T. BARKER	02/09/10
CHECKED	A. LOUCKS	
QA		
MFG		
APPROVED		

TITLE: J11-TYPE2-DP-FRAME

SIZE	DWG NO	REV
A	WDOT-2-DP-FRAME-F	F

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



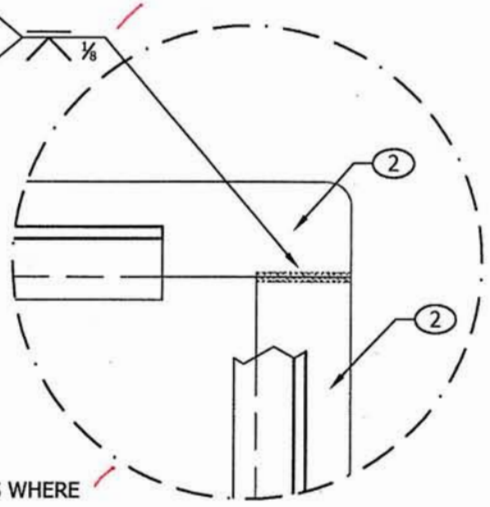
TYP, BOTH CORNERS WHERE PART No. 2 MEET

⅛

TYP, BOTH CORNERS WHERE PART No. 2 MEET

⅛

DETAIL C
SCALE: 3" = 1'-0"



DETAIL D
SCALE: 3" = 1'-0"

LAYOUT CUT LIST			
PART	QTY	DESCRIPTION	SIZE
2	2	Diamond Plate 60" x 120" x 3/8"	
5	1	Angle 1-1/2" x 1-1/2" x 1/4"	2"

SHOP NOTES

1. PLASMA PROGRAM NAME: J11-TYPE2-DP-FRAME
2. CUT w/DAIMOND PATTERN UP

APPROVED
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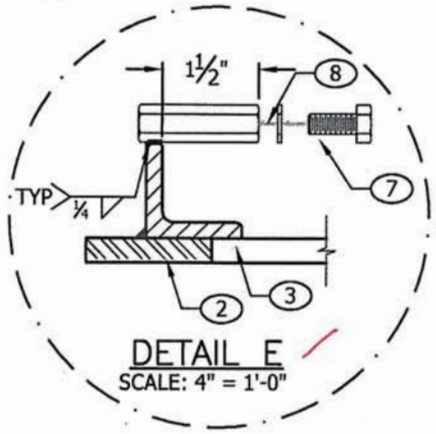
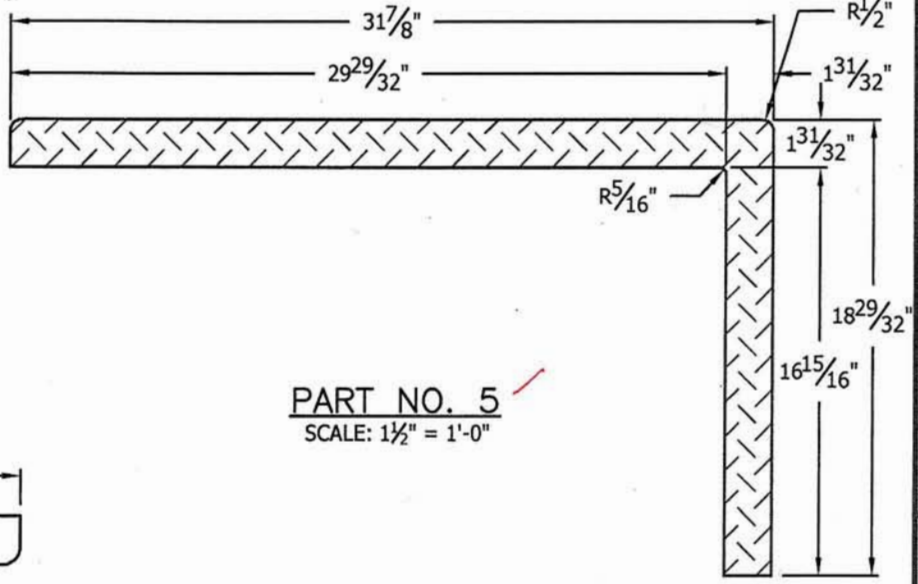
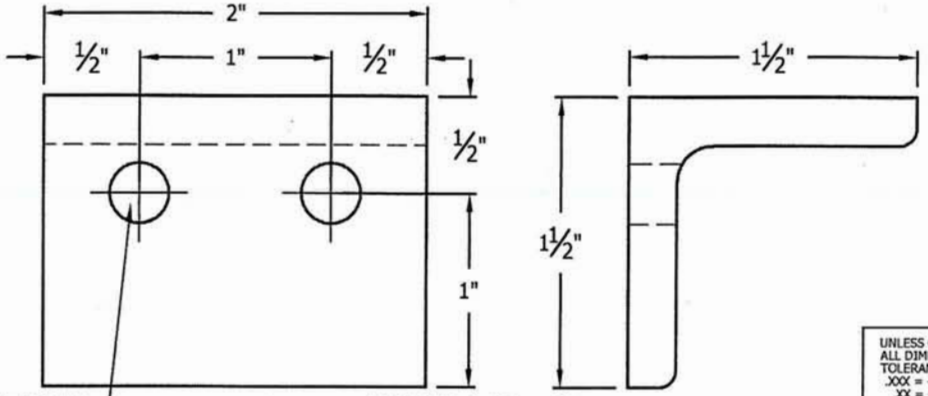
Department of Transportation
HQ Traffic Operations Office
DATE February 10, 2010 TAT



DETAIL E
SCALE: 4" = 1'-0"



PART NO. 5
SCALE: 1½" = 1'-0"



5/16" NC THREAD
(2) PLACES

PART NO. 2
SCALE: 1'-0" = 1'-0"

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801 S. Pine St
Madera, CA 93637

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES
TOLERANCE:
.XXX = +/- .0005
.XX = +/- .005
.X = +/- .050
FRACTION = +/- 1/16
ANGLE = +/- 1°

DRAWN	T. BARKER	02/09/10
CHECKED	A. LOUCKS	AL
QA		
MFG		
APPROVED		

TITLE: J11-TYPE2-DP-FRAME

SIZE: A | DWG NO: WDOT-2-DP-FRAME-F | REV: F

SCALE: AS NOTED