

**MAJOR COMPONENT DESIGN DATA**

VESSEL DESIGNED PER THE 2013 EDITION OF THE ASME CODE SECTION VIII DIVISION 1, N/A ADDENDA.  
 CODE STAMP: IS REQ'D SERIAL NO: 5612-11 NATIONAL BOARD NO: 3093

DESIGN PRESSURE INTERNAL: 400 PSI @ 200 DEG F  
 DESIGN PRESSURE EXTERNAL: N/A

HYDRO TEST (SHOP): 520 PSI

MAWP: 400 PSI @ 200 DEG F  
 MAP: 400 PSI @ 70 DEG F  
 MDMT: -20 DEG F PWHT: NOT REQ'D

CORROSION ALLOWANCE: 0"

RADIOGRAPH: HEAD/SHELL: FULL UW-11(a)  
 SHELL CIRC: FULL UW-11(a)  
 SHELL LONG: FULL UW-11(a)

ESTIMATED WEIGHT: FABRICATION: 6,434 LBS (BARE VESSEL WT)  
 EMPTY: 8,335 LBS  
 TEST: 19,767 LBS  
 OPERATING: 13,070 LBS

INSULATION: 1.5" FIREPROOFING: NONE INSPECTION BY: ONECIS

**MATERIAL SPECIFICATIONS**

SHELL	SA-240-316	FLANGES	SA-182-F316 125-250 AARH
HEADS	SA-240-316	SUPPORTS	SA-240-316
CPLOS.	SA-182-F316	INTERNALS	SEE DETAILS
STUDS	SA-193-B8	REINF. PADS	SA-240-316
NUTS	SA-194-B8	NOZZLE NECKS	SA-182-F316/SA-312-TP316
GASKETS	1/8" FLEXITALLIC "CG", 316SS WOUND, FLEX GRAPHITE FILLED, C.S. OUTER RING.		

**WELDING PROCEDURES**

WPS No.	COMMENT

**COATING REQUIREMENTS**

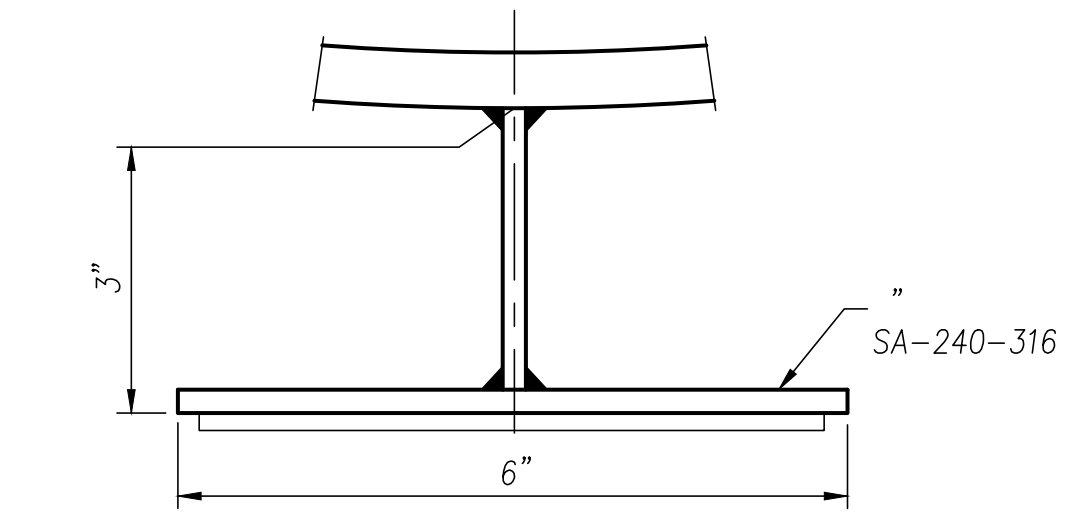
STAINLESS - NO COATING REQUIRED

- GENERAL NOTES**
- 1) ALL FLANGE FACES SHALL BE CLEANED AND COVERED FOR SHIPMENT
  - 2) APPLY A SUITABLE RUST PREVENTATIVE TO GASKET SURFACES.
  - 3) ALL WEEP HOLES SHALL BE PLUGGED WITH STIFF GREASE.
  - 4) VESSEL SHALL BE DRY, THOROUGHLY CLEANED INSIDE AND OUTSIDE, AND FREE OF ALL DIRT, EXCESS OIL, AND LOOSE FOREIGN MATERIALS.
  - 5) ALL FLANGE BOLT HOLES SHALL STRADDLE VESSEL CENTERLINES UNLESS OTHERWISE SHOWN OR NOTED.
  - 6) FOR INTERNALS BY SULZER - SEE SULZER DWGS #9011151-01.

**NDE REQUIREMENTS**

MAGNETIC PARTICLE TESTING	TEMPORARY ATTACHMENTS.
LIQUID PENETRANT TESTING	N/A
ULTRASONIC EXAMINATION	N/A
RADIOGRAPHIC EXAMINATION	RT-1
PMI	ALL STAINLESS MATERIAL

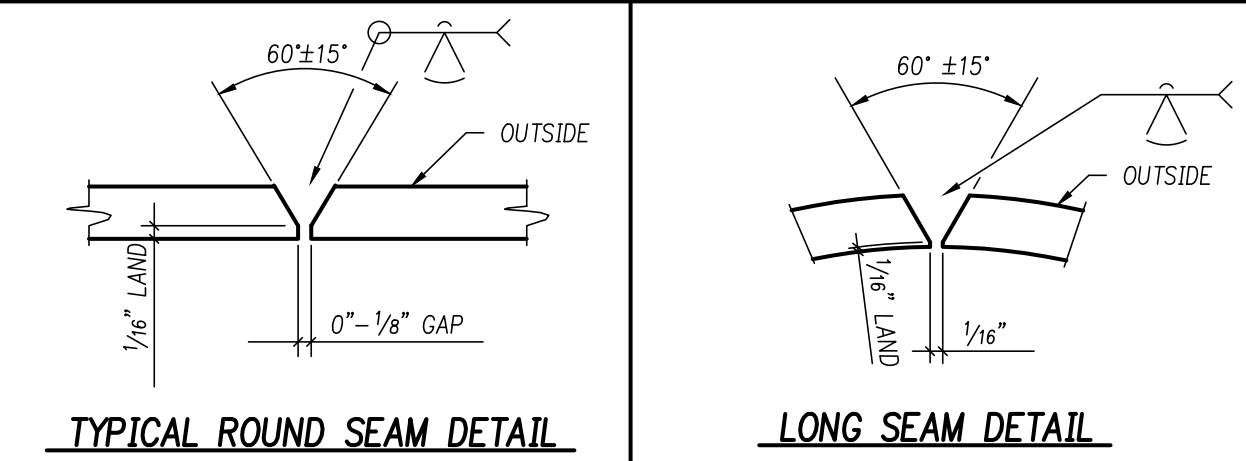
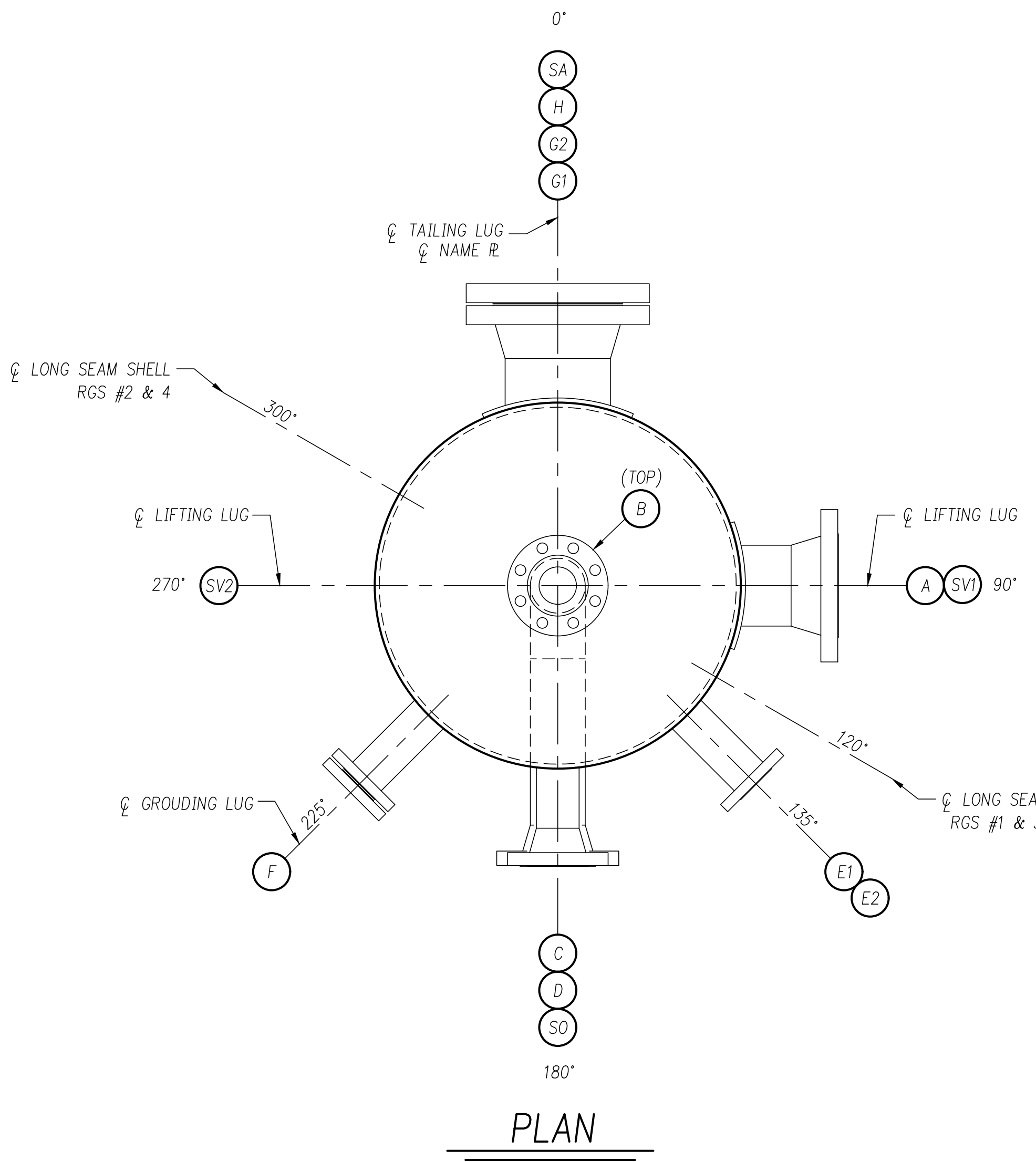
**WORKLINE**  
 CENTER PUNCH OUTSIDE FOR PERMANENT REFERENCE... ALL TAIL DIMENSIONS ARE TO THIS LINE.



**NAME PLATE FACSIMILE & BRACKET DETAILS**

ONE (1) REQUIRED

NAT'L. BD. NB 3093	
CERTIFIED BY PPI PROFESSIONAL PROJECTS INC. CYPRESS, TEXAS	
U	MAWP: 400 PSI AT 200 °F
W	MAX EXT: - PSI AT - °F
R	MDMT: -20 °F AT 400 PSI
T	YR. BLT: 2015 MFG. SER. NO. 5612-11
HEAD MAT'L:	SA-240-316 THK. .3125"
SHELL MAT'L:	SA-240-316 THK. .375"
HYDRO. TEST:	520 PSI COR. ALLOW. 0"
EST. WT. EMPTY:	8,335 LBS
ITEM:	T-1110, AMINE CONTACTOR
P.O.:	13



MARK	SIZE	CLASS	TYPE	IDENTIFIER
SV1~2	2			SKIRT VENT
SO	8			SKIRT SLEEVE
SA	18			SKIRT ACCESS
H	8"	300#	WN	DUMP W/BLIND
G2	8"	300#	WN	FILL W/BLIND
G1	8"	300#	WN	FILL W/BLIND
F	2"	300#	LWN	VENT W/BLIND
E2	2"	300#	LWN	BRIDLE
E1	2"	300#	LWN	BRIDLE
D	4"	300#	WN	LIQUID OUTLET
C	3"	300#	WN	LIQUID INLET
B	3"	300#	WN	GAS OUTLET
A	6"	300#	WN	GAS INLET

NO.	REVISION	BY	DATE
4	REVISED AS BUILT	MLR	8/22/16
3	REVISED AS NOTED	MLR	2/2/16
2	REVISED NOZZLE ELEVATIONS AS NOTED	MLR	1/11/16
1	REVISED PER CUSTOMER APPROVAL	MLR	12/4/15
0	ISSUED FOR CUSTOMER APPROVAL	MLR	11/6/15

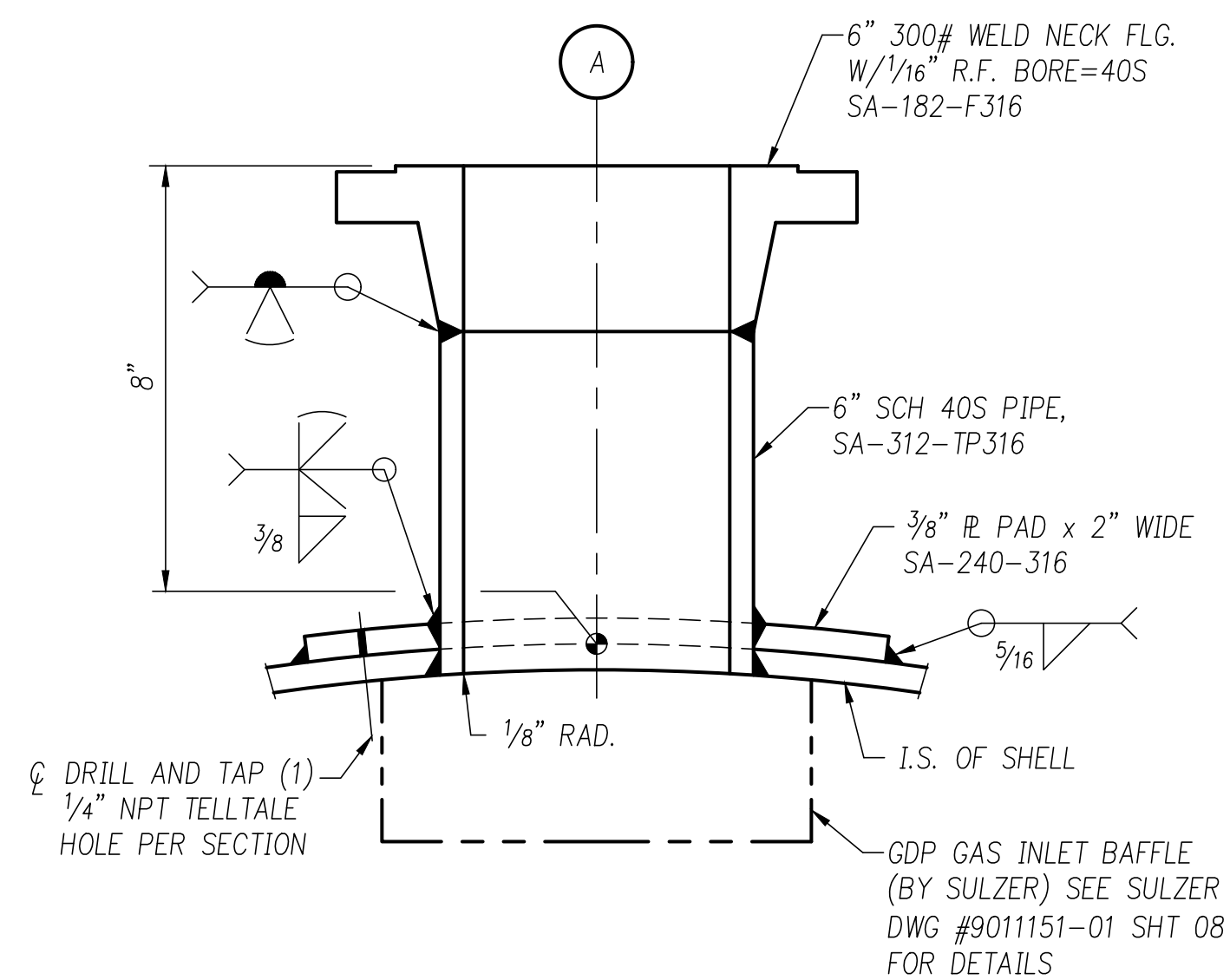
**PPI Professional Projects, Inc.**  
 P.O. BOX 618 (18115 TELGE RD.) CYPRESS, TEXAS 77429

TITLE: 30" OD x 38'-0" S/S  
 ITEM: T-1110, AMINE CONTACTOR  
**ELEVATION, PLAN, & GENERAL NOTES**

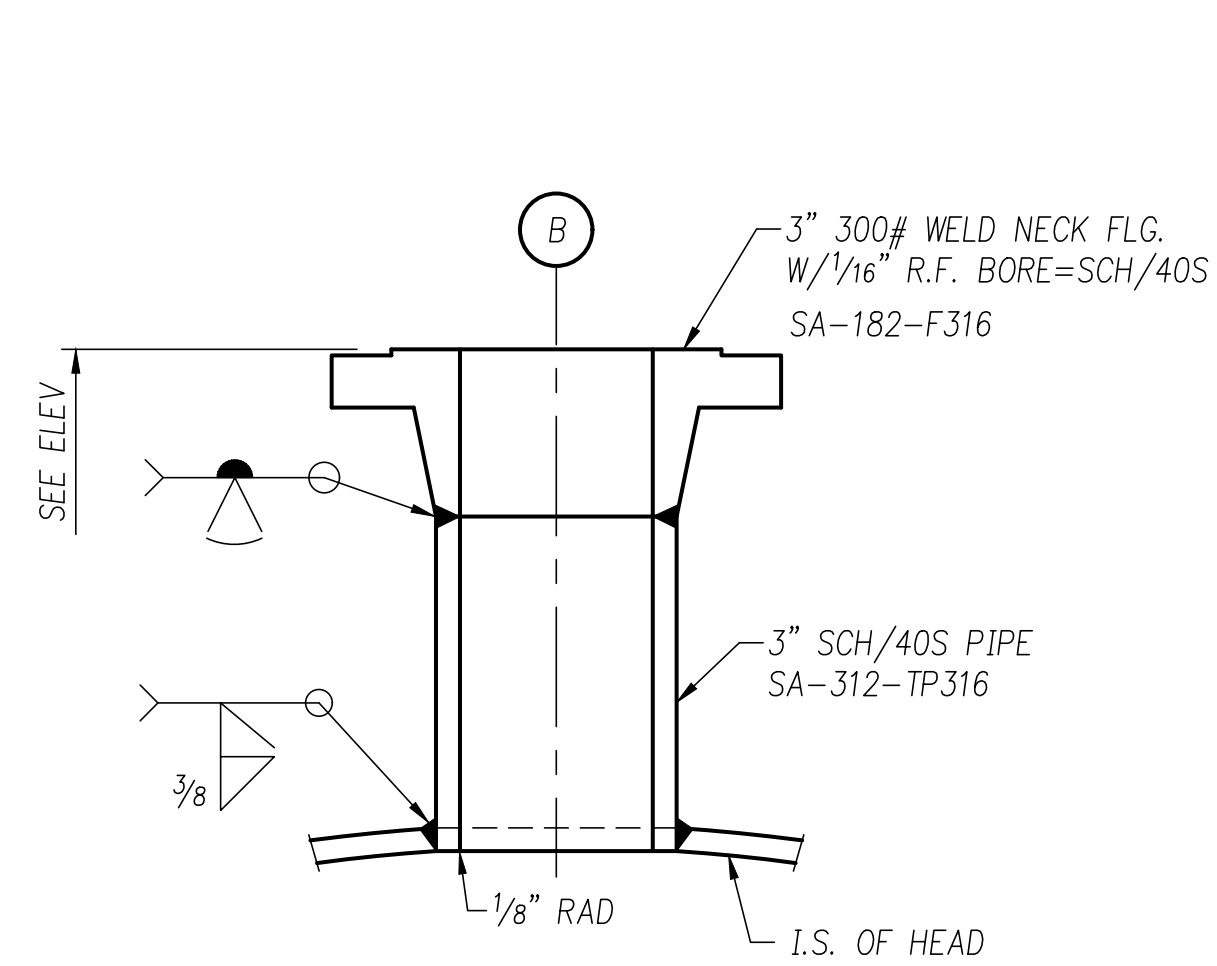
CUSTOMER: INFRA TECHNOLOGY, LLC  
 HOUSTON, TEXAS

CUSTOMER P.O. NO. 13	PPI NO. 5612
DRAWN: MLR DATE: 11/6/15	CHECKED: MUD DATE: 11/6/15
DRAWING NO. S/O 5612-11	SHEET NUMBER 1
REVISION NO. 1	REVISION NO. 4

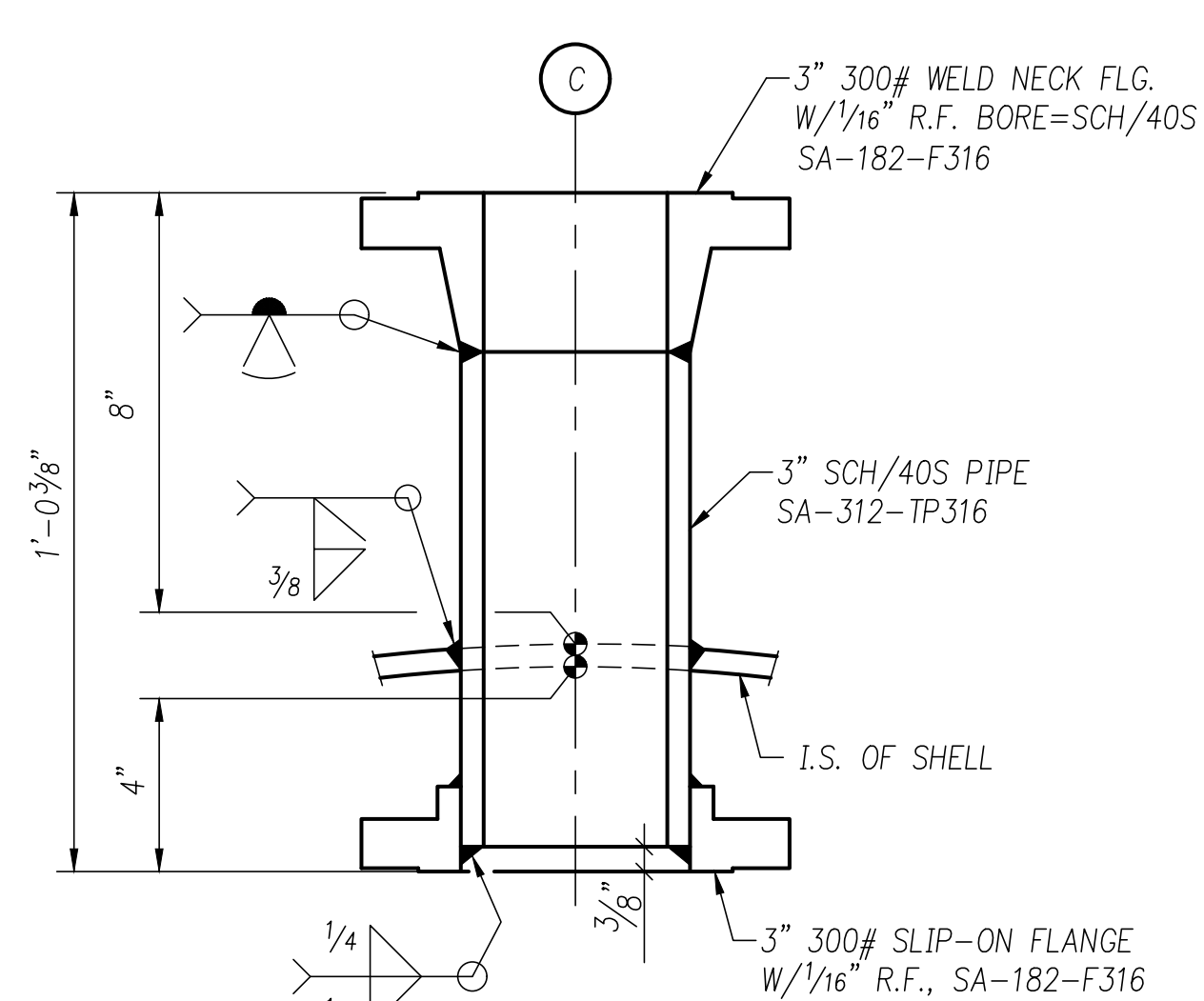
FILE NAME: 5612-11  
 PLOT DATE: 11/6/15  
 PLOT TIME: 3:00  
 BY: MLR



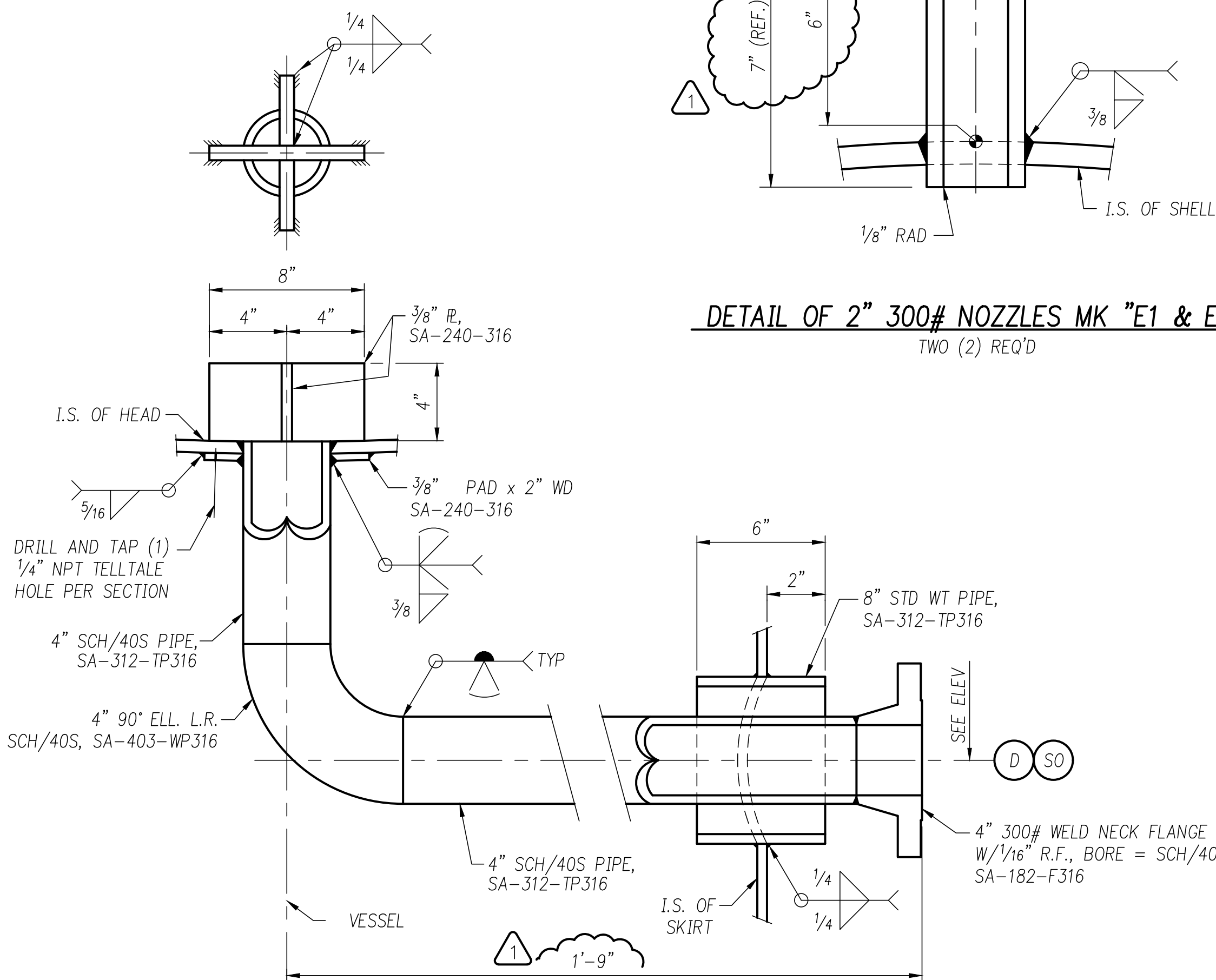
**DETAIL OF 6" 300# NOZZLE MK "A"**  
ONE (1) REQ'D



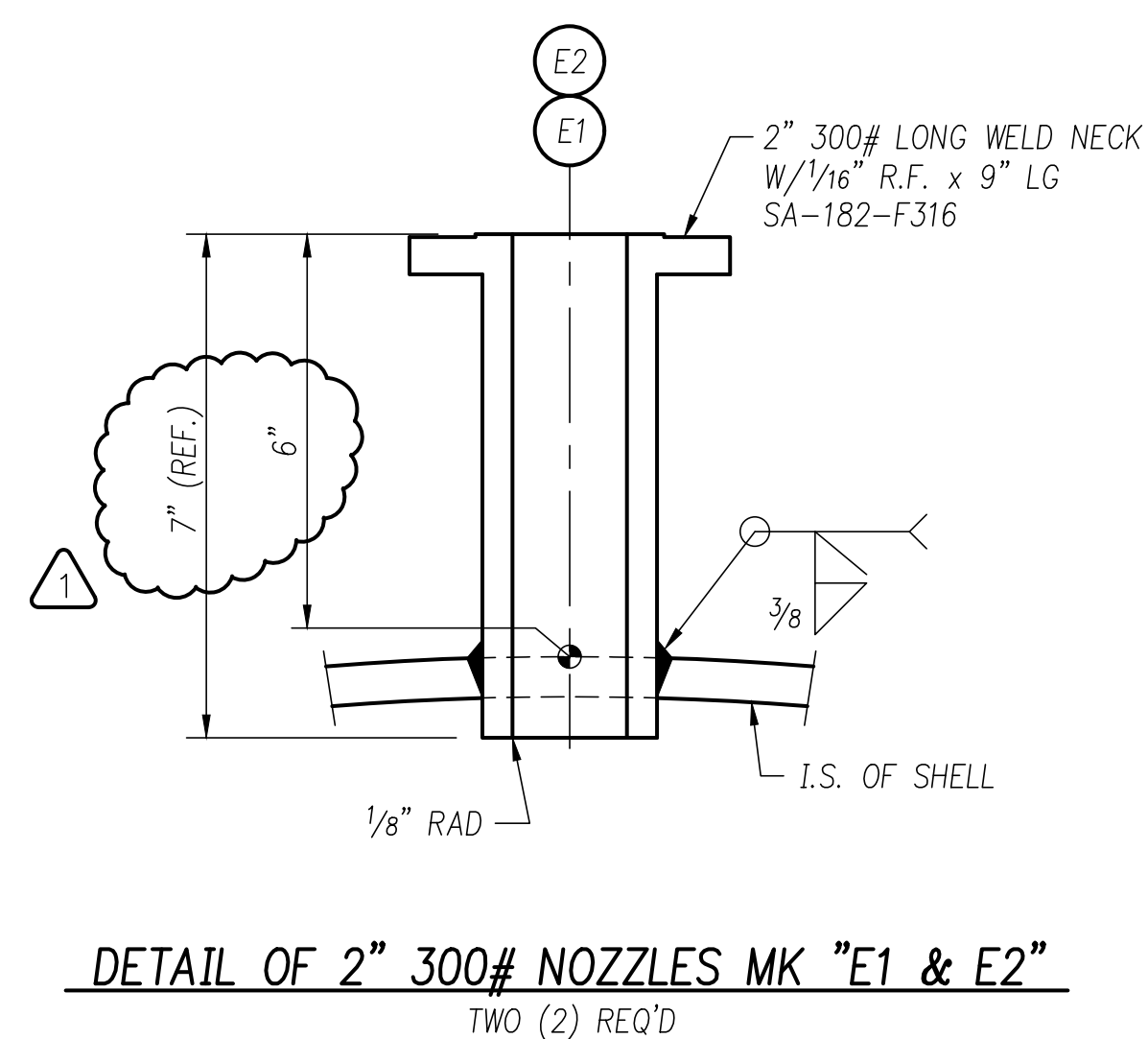
**DETAIL OF 3" 300# NOZZLE MK "B"**  
ONE (1) REQ'D



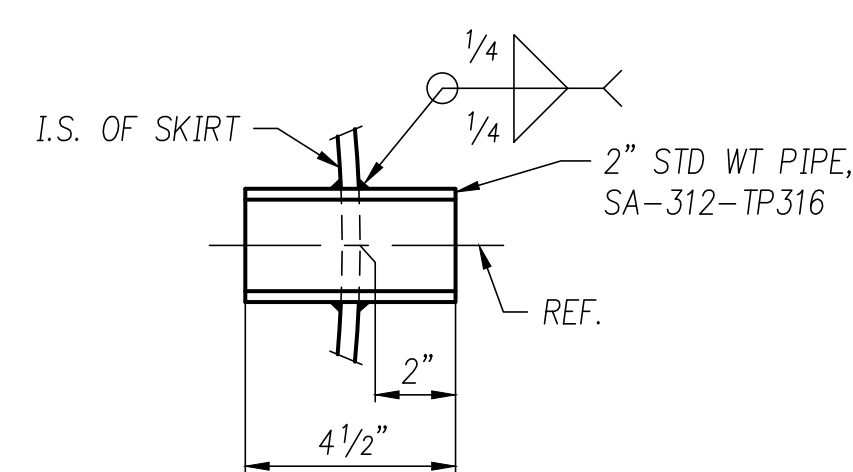
**DETAIL OF 3" 300# NOZZLE MK "C"**  
ONE (1) REQ'D



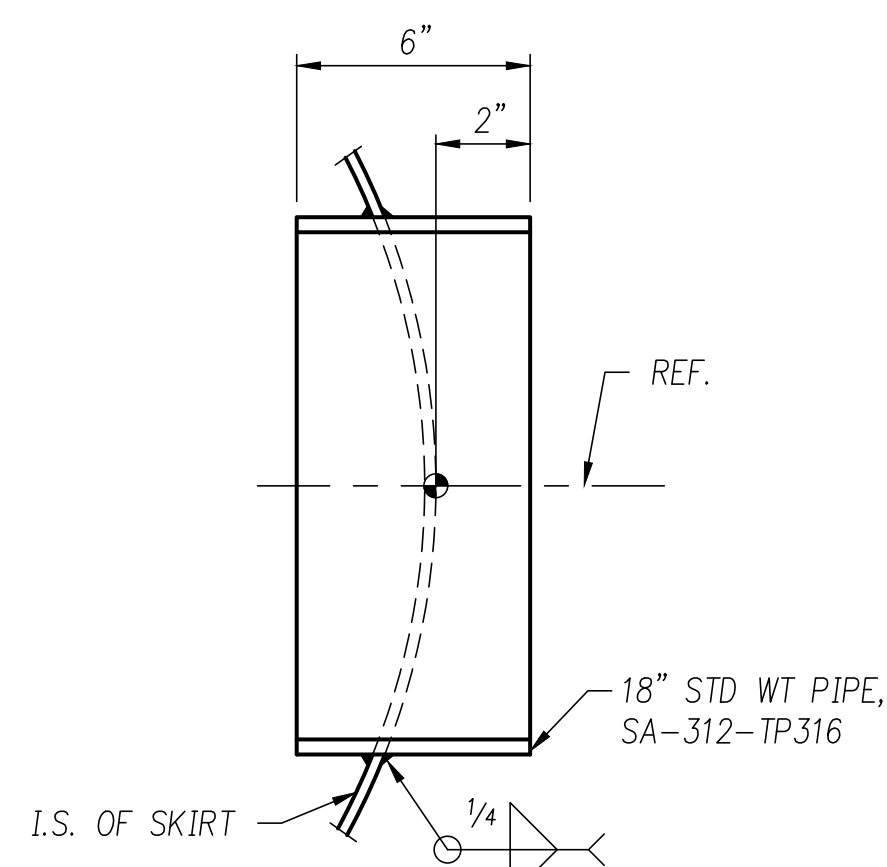
**DETAIL OF 4" 300# NOZZLE MK "D"**  
**W/SLEEVE MK "SO" & VORTEX BREAKER**  
ONE (1) REQ'D



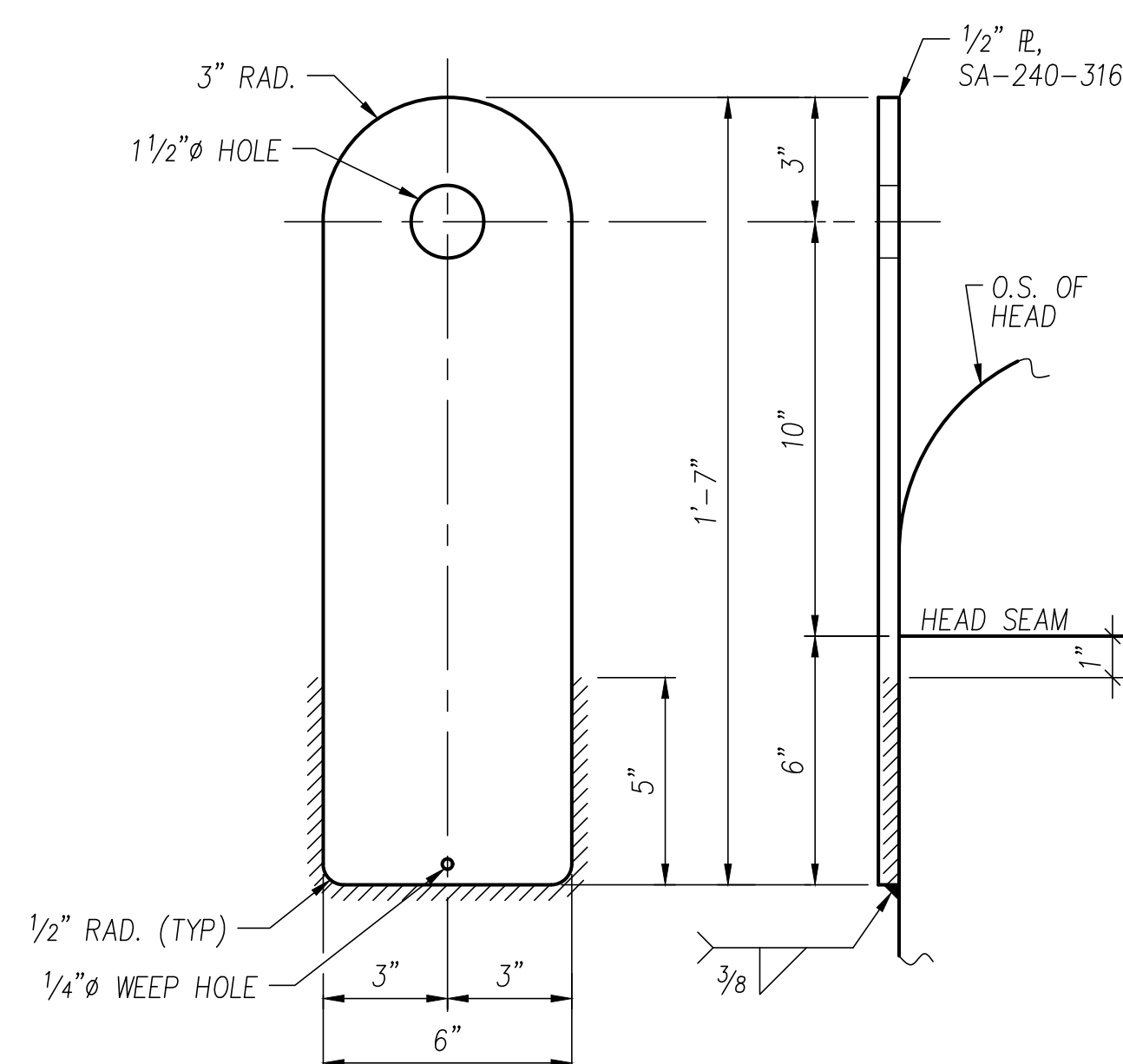
**DETAIL OF 2" 300# NOZZLES MK "E1 & E2"**  
TWO (2) REQ'D



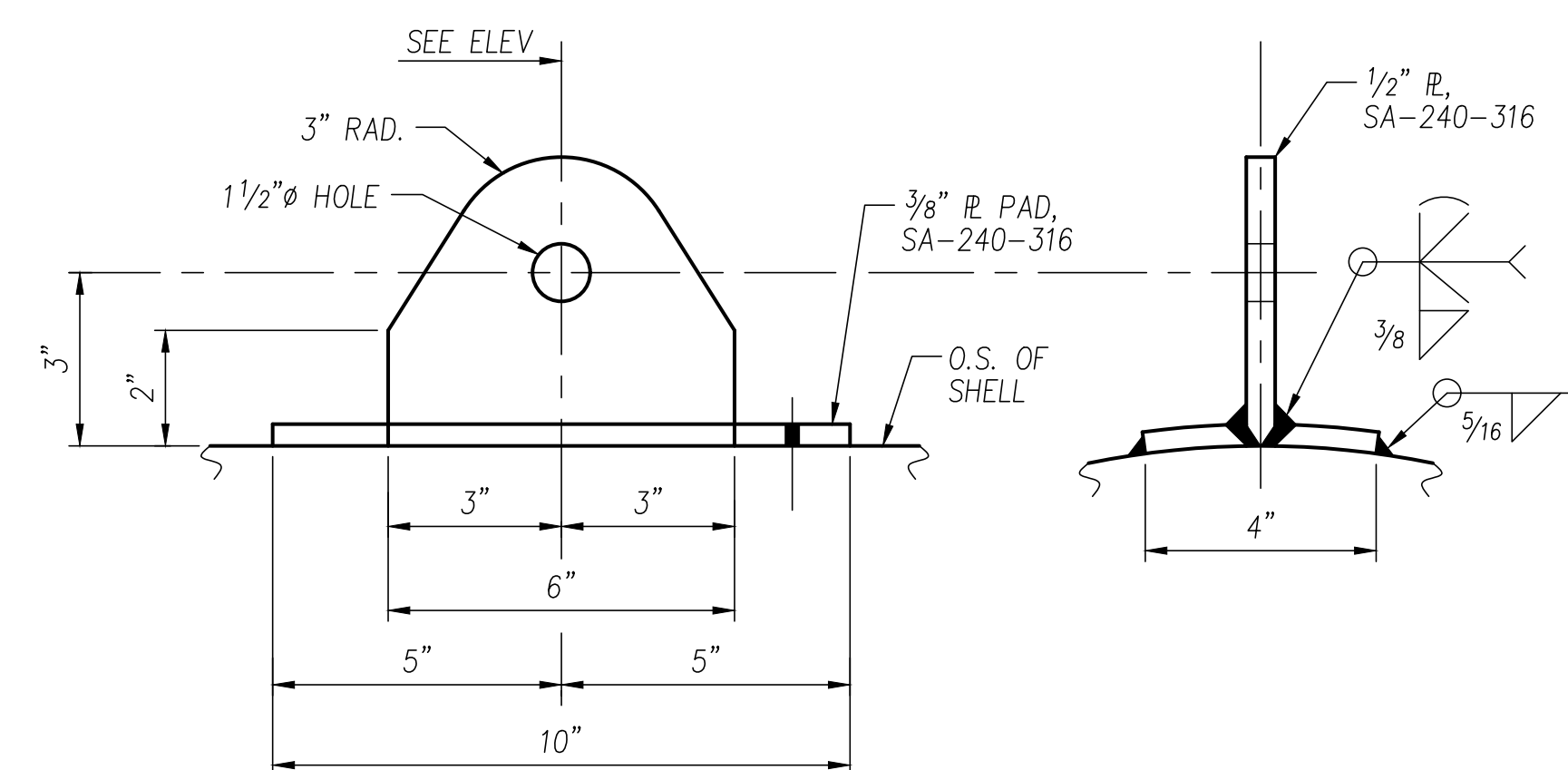
**DETAIL OF 2" SKIRT VENT**  
TWO (2) REQ'D MK "SV1~SV2"



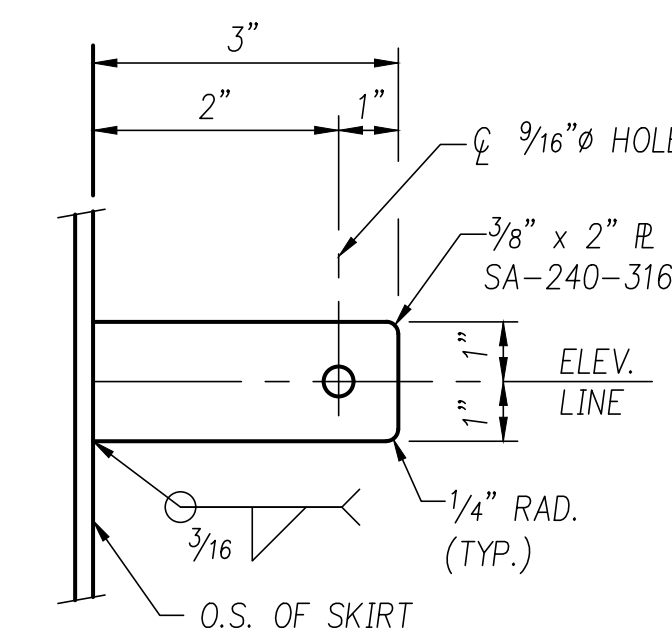
**DETAIL OF 18" SKIRT ACCESS**  
ONE (1) REQ'D MK "SA"



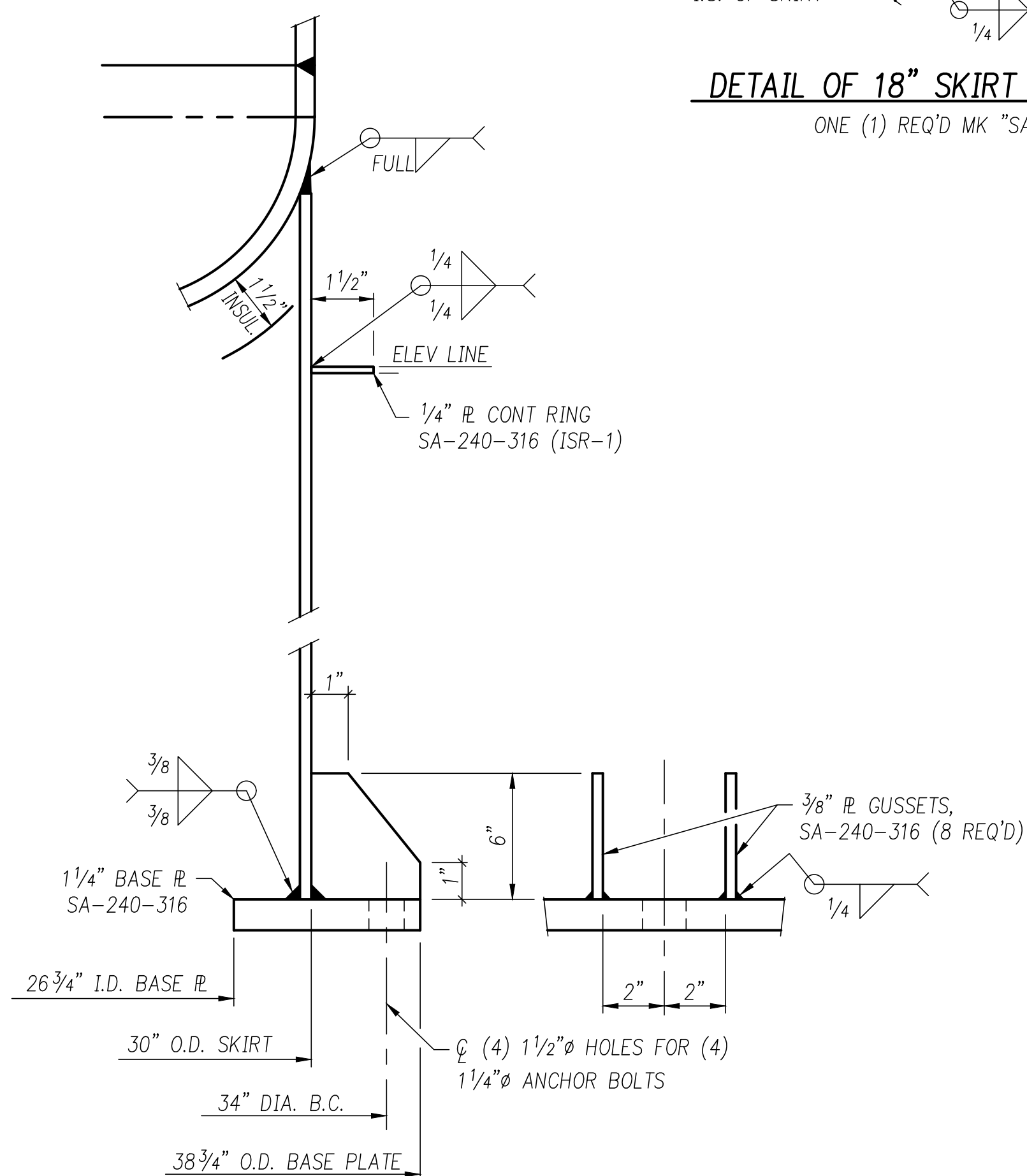
**DETAIL OF LIFTING LUG**  
TWO (2) REQ'D



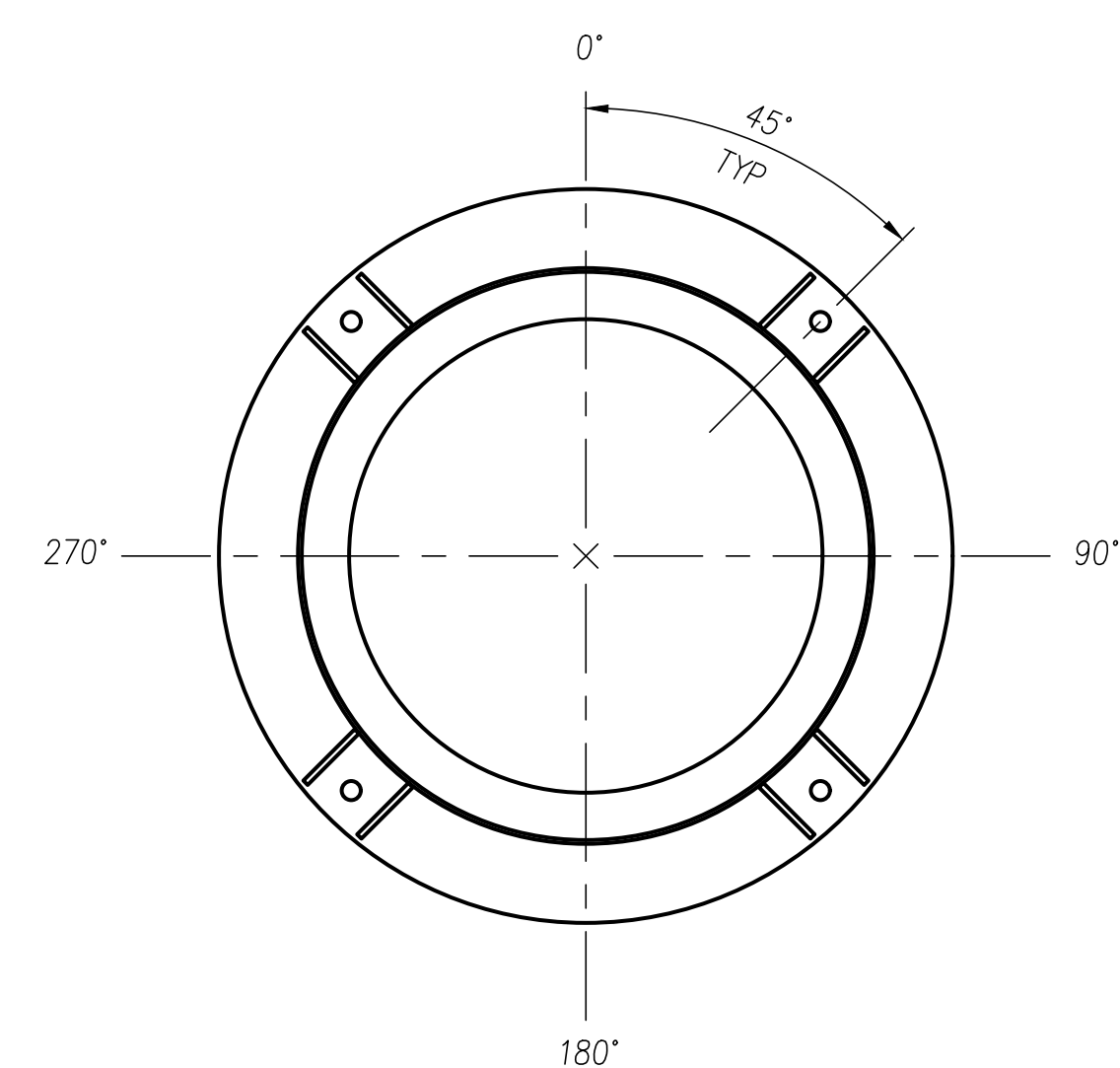
**DETAIL OF TAILING LUG**  
ONE (1) REQ'D



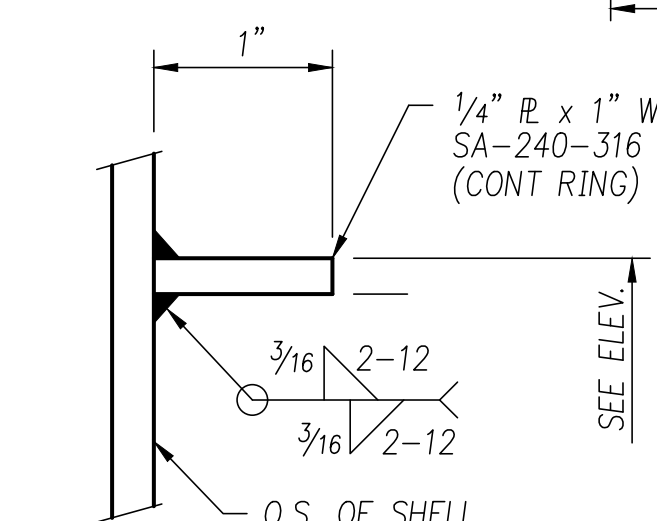
**GROUNDING LUG DETAIL**  
ONE (1) REQ'D



**BASEPLATE DETAIL**



**ANCHOR BOLT PLAN**



**INSULATION SUPPORT RING**  
ONE (1) EA. REQ'D MK "ISR-2 ~ ISR-5"  
FOUR (4) REQ'D

NO.	REVISION	BY	DATE
1	REVISED PER CUSTOMER APPROVAL	MLR	1/11/16
0	ISSUED FOR CUSTOMER APPROVAL	MLR	12/4/15

**PPI Professional Projects, Inc.**  
P.O. BOX 618 (18115 TELGE RD.) CYPRESS, TEXAS 77429

TITLE: 30" OD x 38'-0" S/S  
ITEM: T-1110, AMINE CONTACTOR  
**DETAILS**

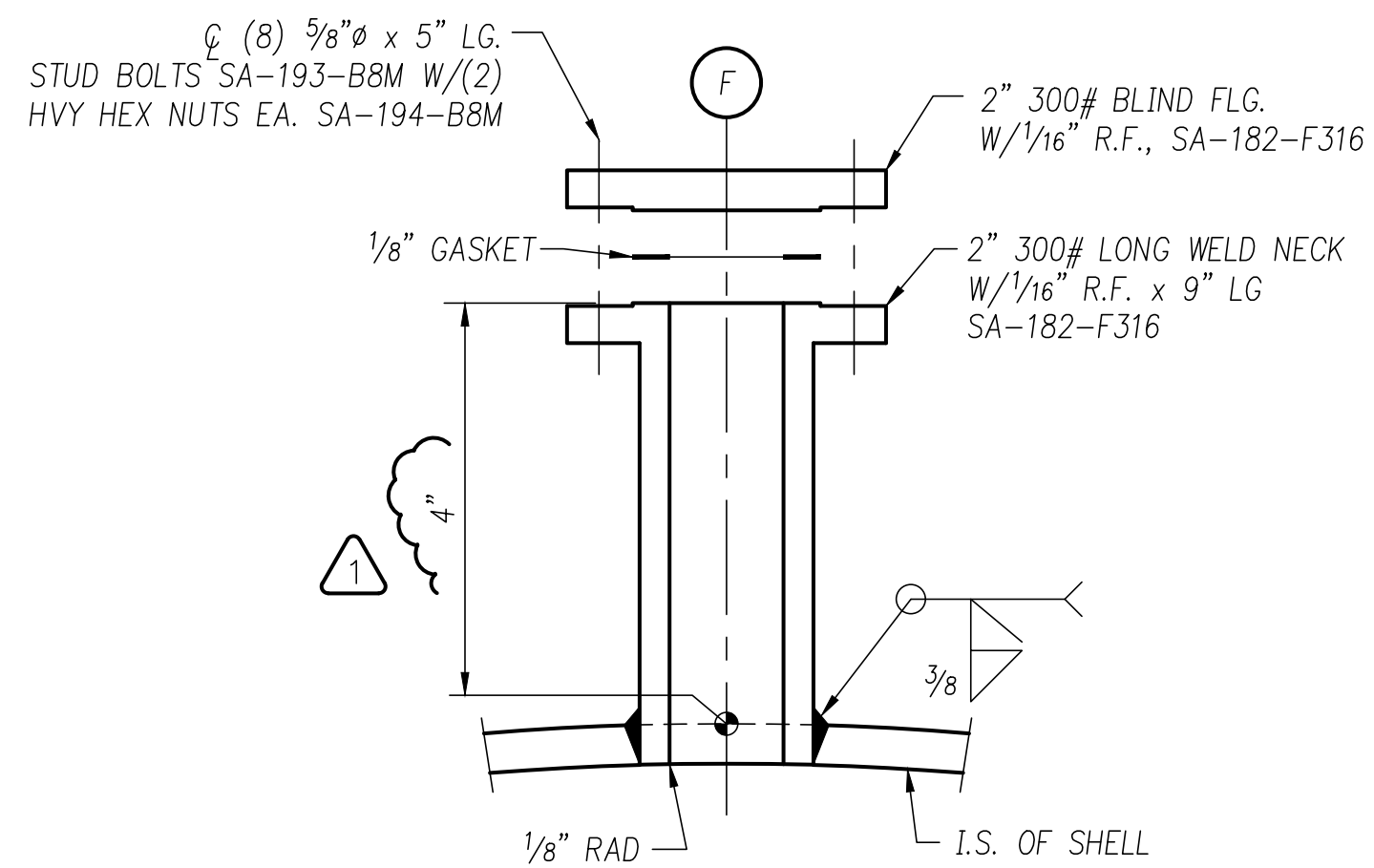
CUSTOMER: INFRA TECHNOLOGY LLC  
HOUSTON, TEXAS

CUSTOMER P.O. NO. 13 PPI NO. 5612

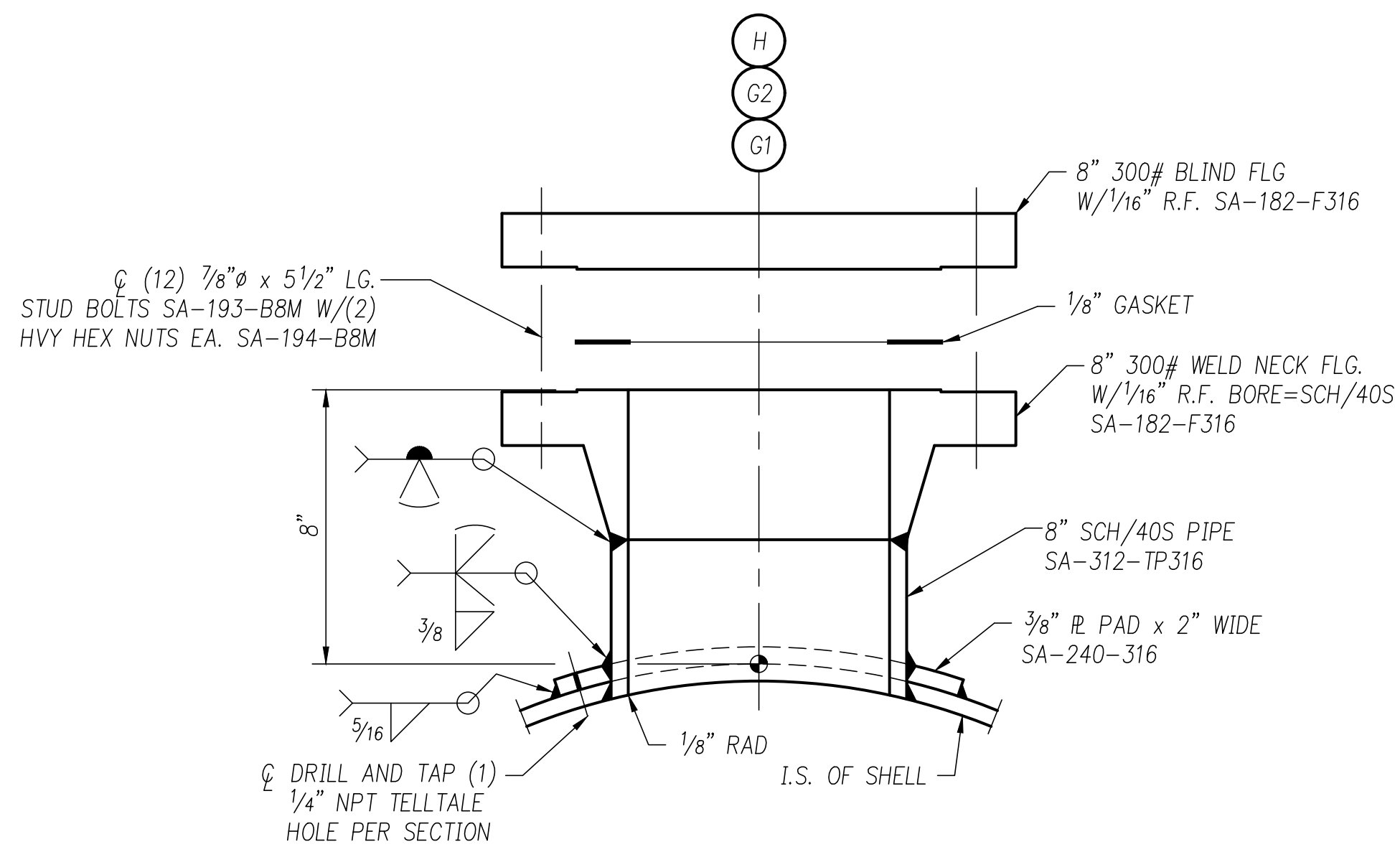
DRAWN: MLR DATE: 12/4/15 CHECKED: MUD DATE: 12/4/15

DRAWING NO. S/O 5612-11 SHEET NUMBER 2 REVISION NO. 1

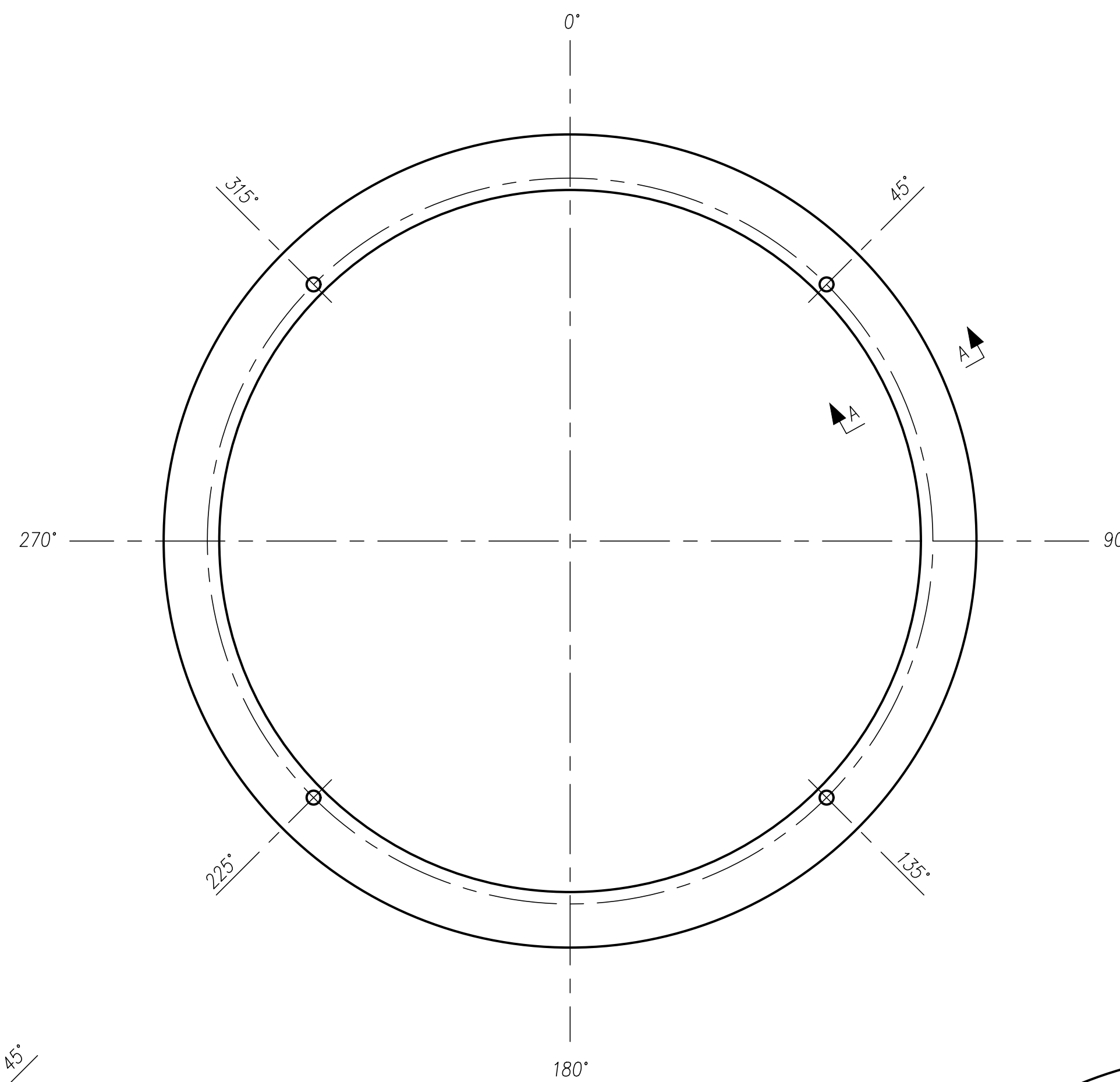
FILE NAME: 5612-11  
PLOT DATE: 12/4/15  
PLOT TIME: 10:00  
BY: MLR



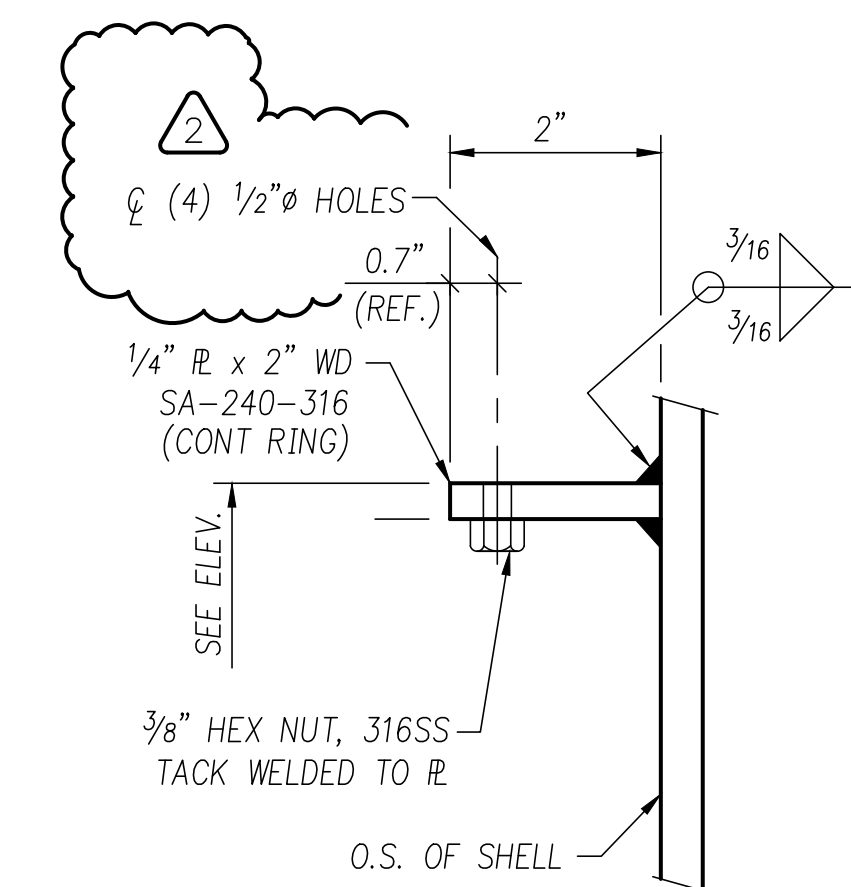
**DETAIL OF 2" 300# NOZZLE MK "F"**  
ONE (1) REQ'D



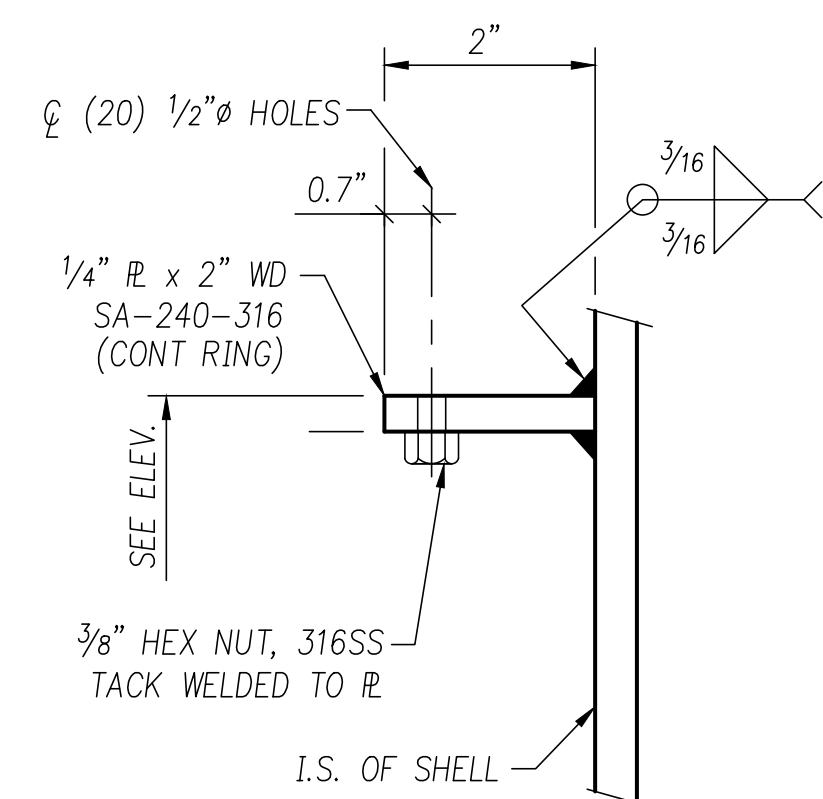
**DETAIL OF 8" 300# NOZZLES MK "G1, G2, & H"**  
THREE (3) REQ'D



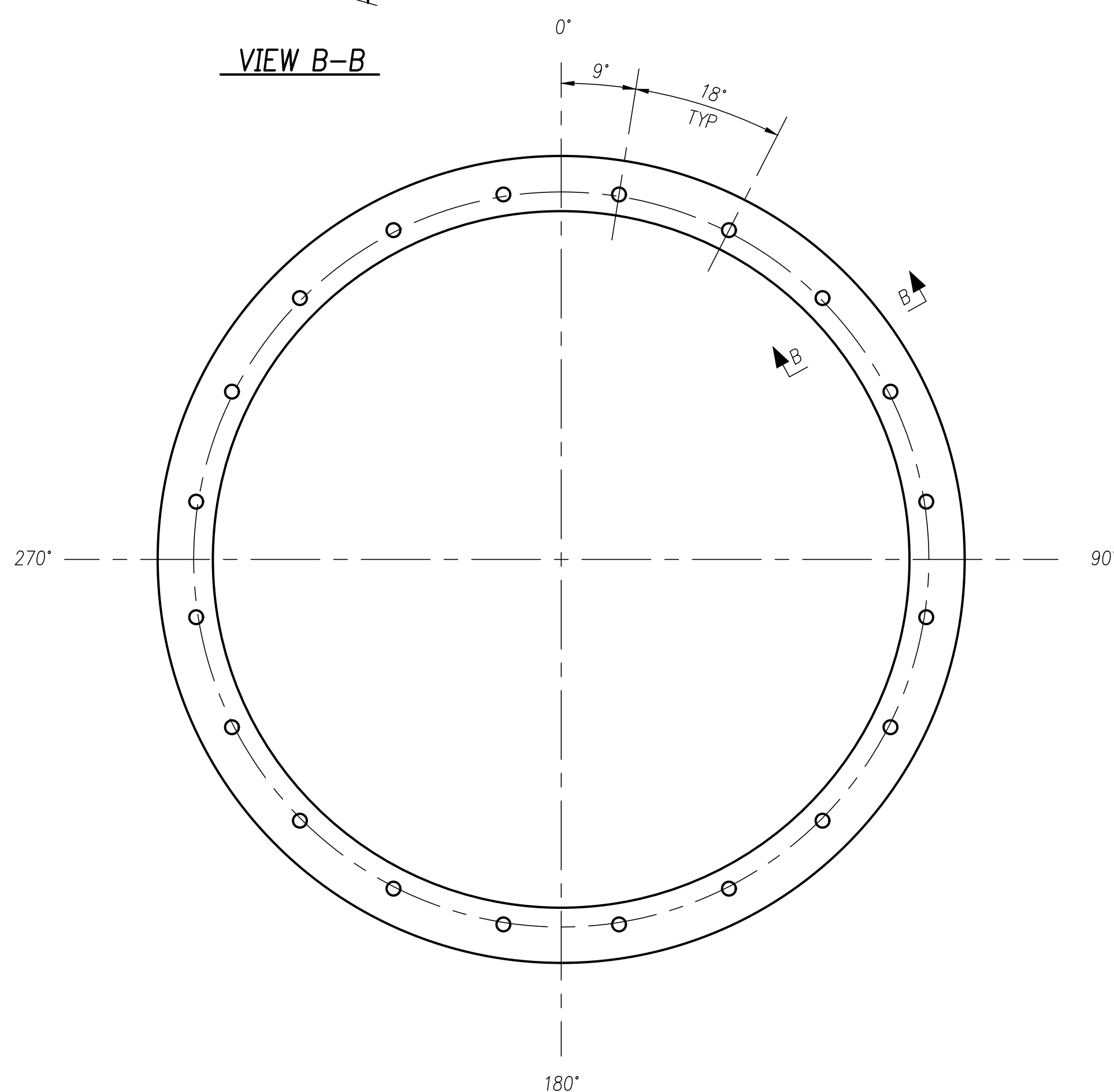
**PLAN OF MIST ELIMINATOR SUPPORT RING**



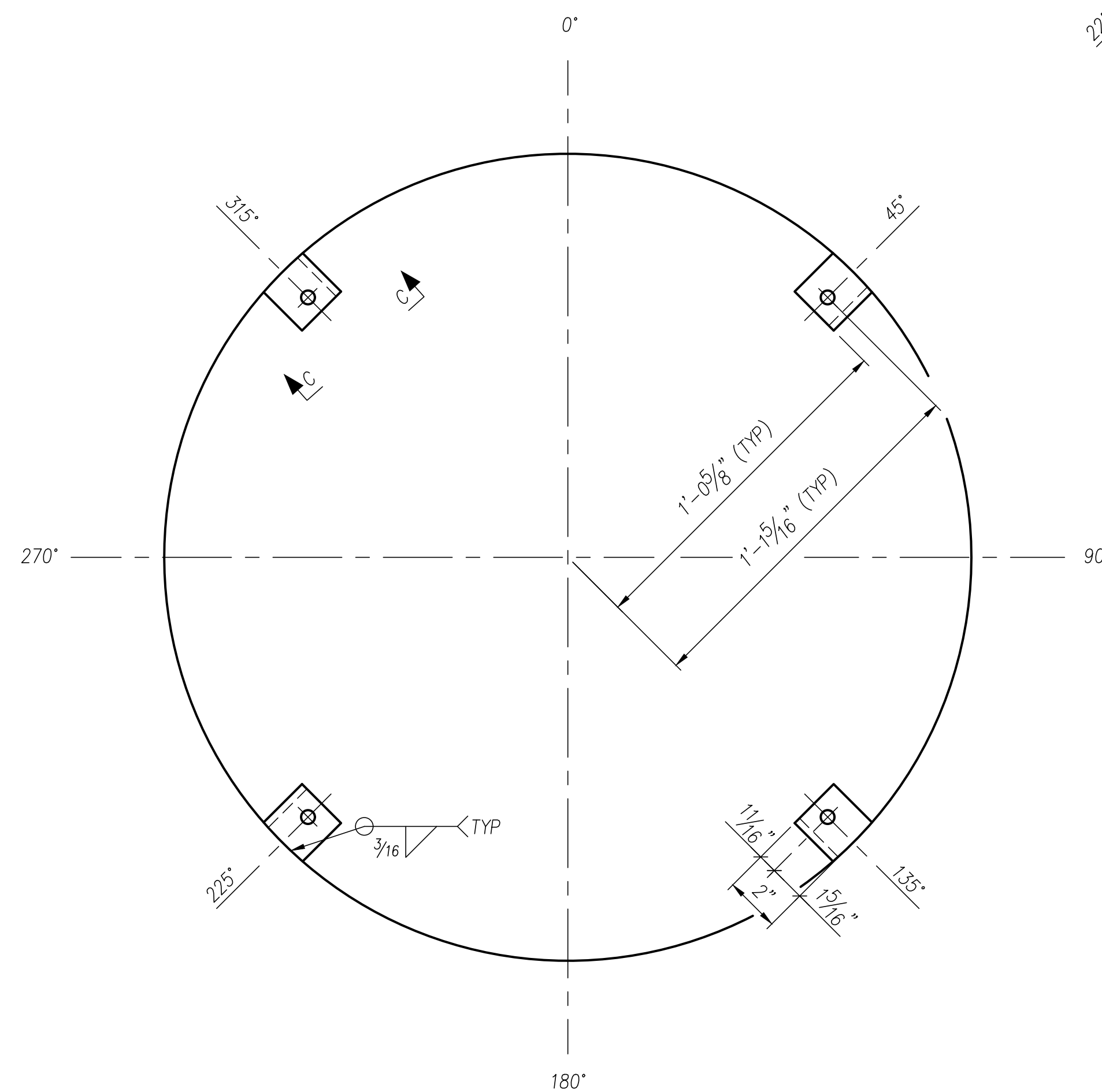
**VIEW A-A**



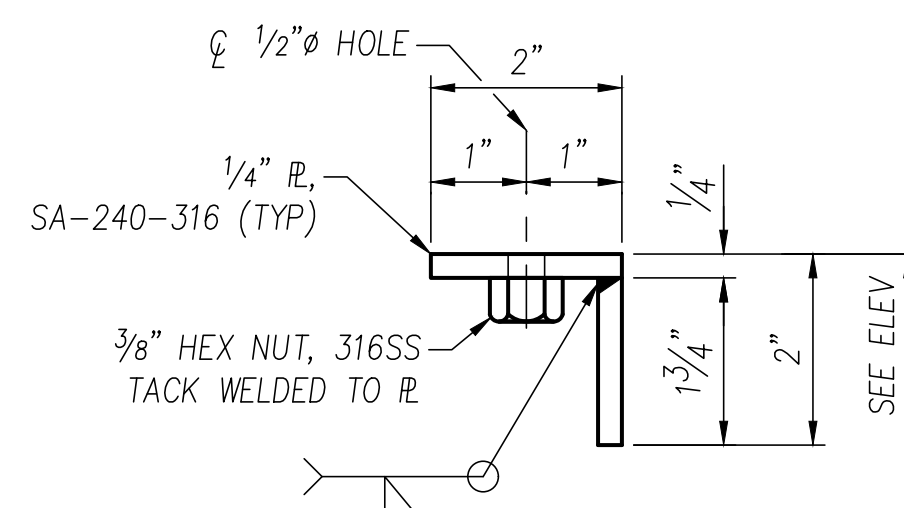
**VIEW B-B**



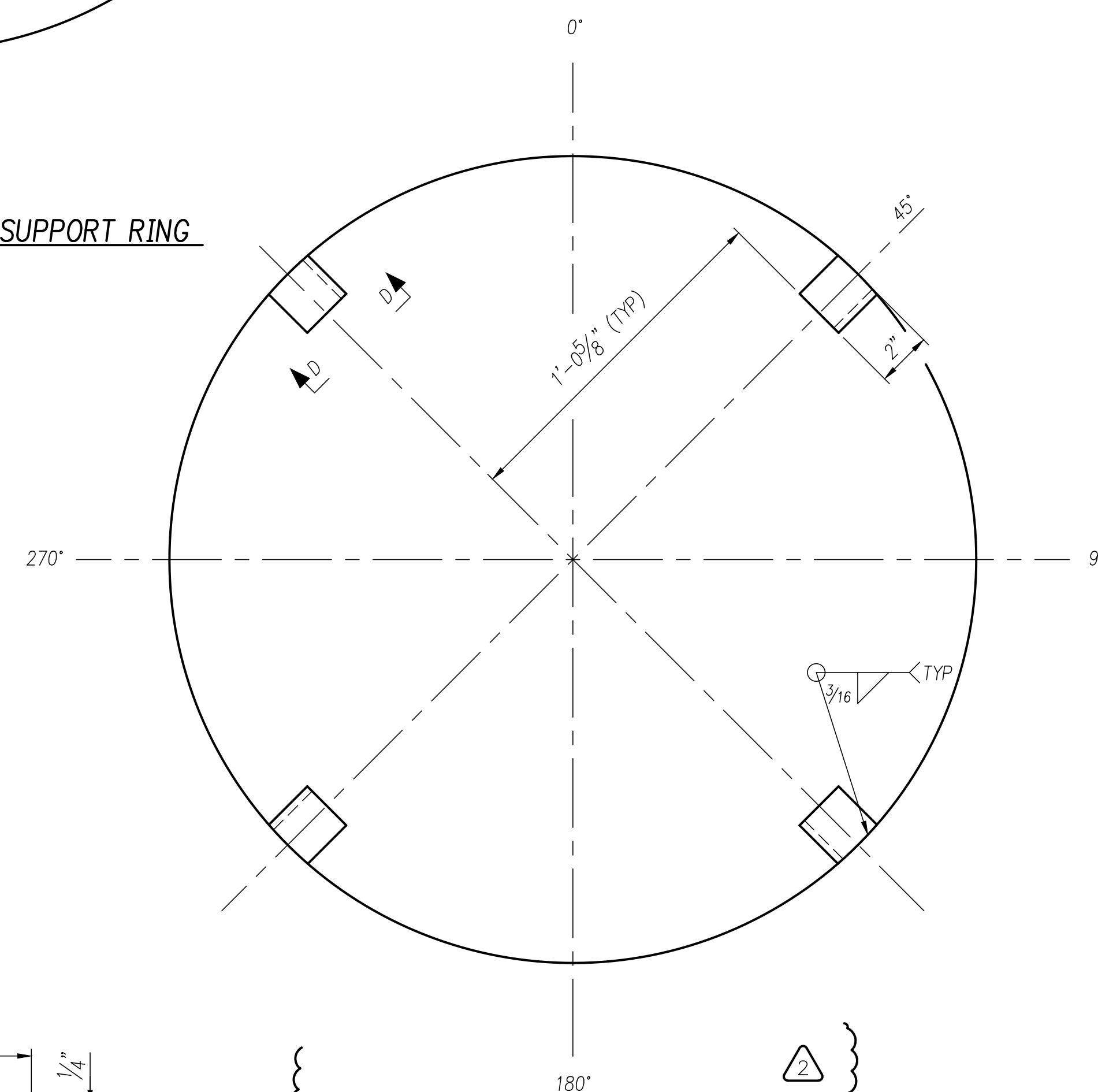
**PLAN OF VSIR LIQUID DISTRIBUTOR SUPPORT RING**



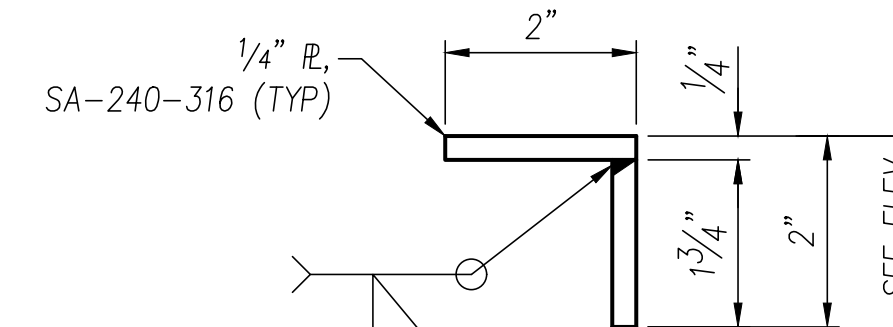
**PLAN OF RPB BED LIMITER SUPPORT CLIPS**



**VIEW C-C**



**PLAN OF EMS GRID SUPPORT CLIPS**



**VIEW D-D**

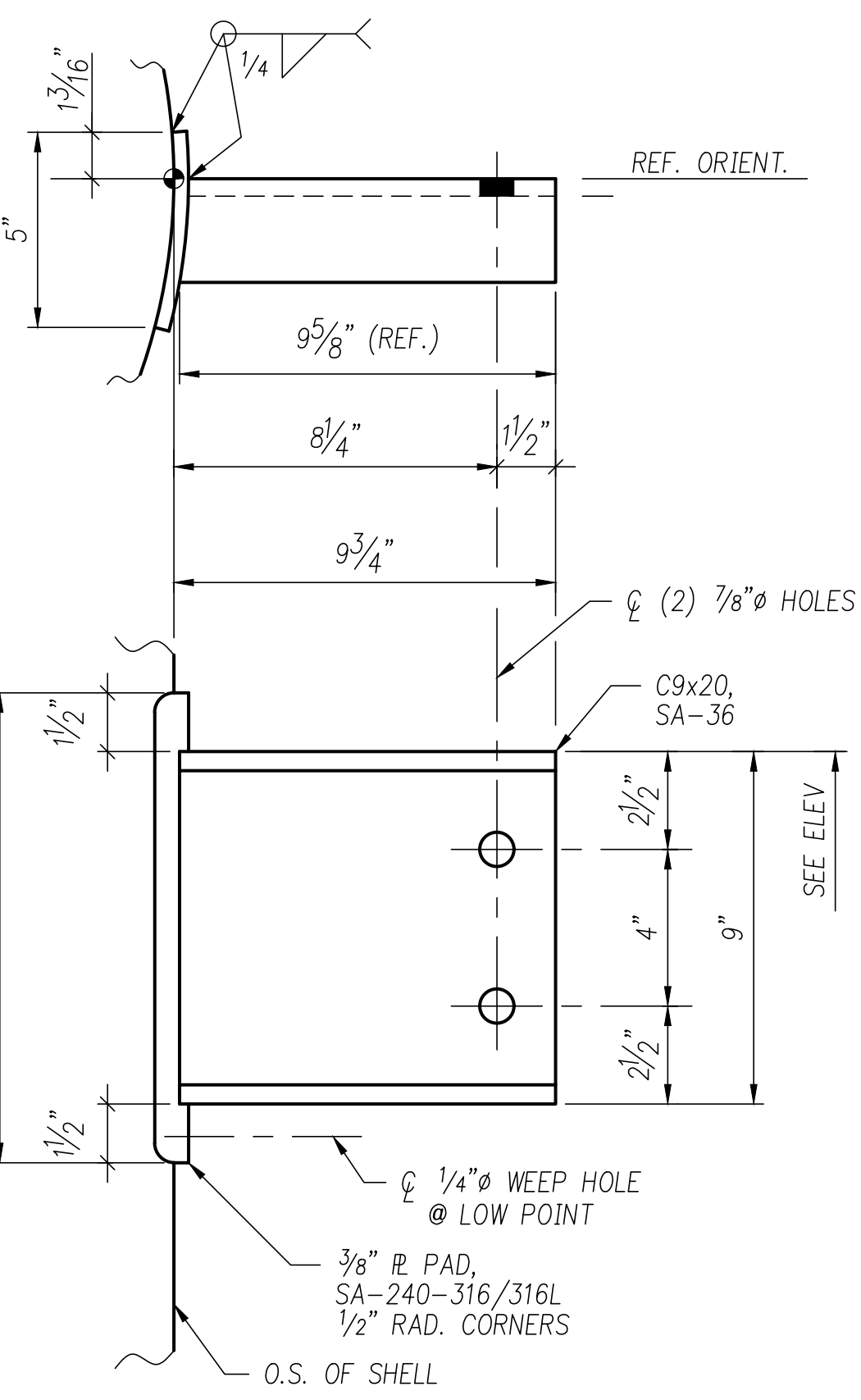
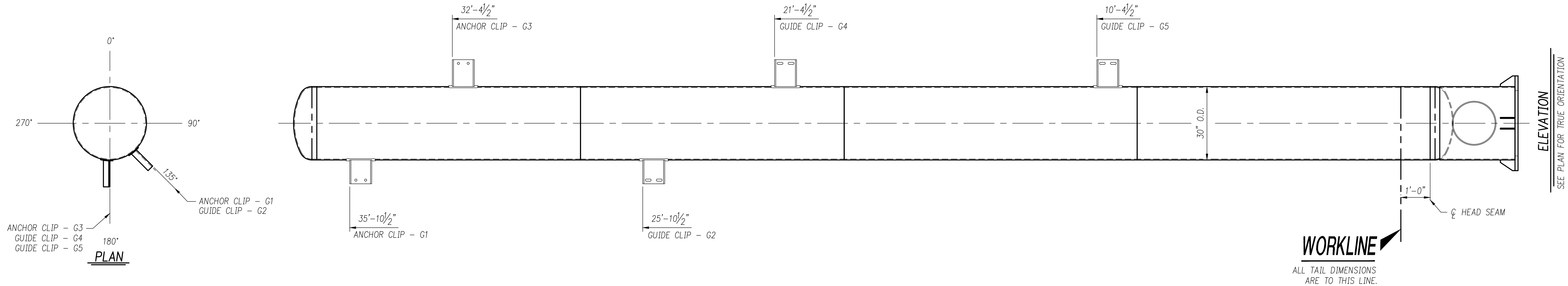
NO.	REVISION	BY	DATE
2	REVISED AS NOTED	MLR	2/2/16
1	REVISED PER CUSTOMER APPROVAL	MLR	1/11/16
0	ISSUED FOR CUSTOMER APPROVAL	MLR	12/4/15

**PPI Professional Projects, Inc.**  
P.O. BOX 618 (18115 TELGE RD.) CYPRESS, TEXAS 77429

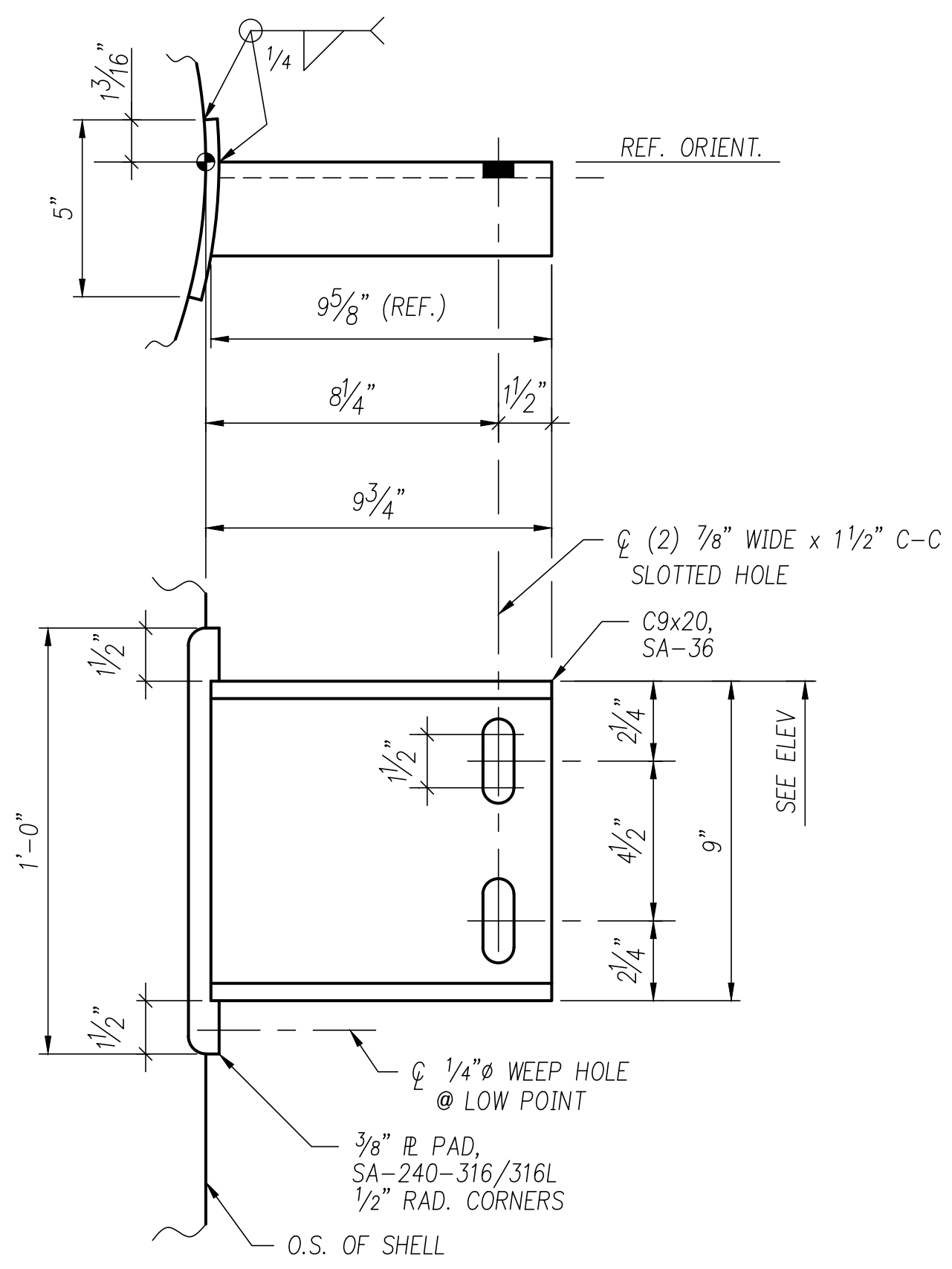
TITLE: 30" OD x 38'-0" S/S  
ITEM: T-1110, AMINE CONTACTOR  
**DETAILS**

CUSTOMER: INFRA TECHNOLOGY LLC  
HOUSTON, TEXAS  
CUSTOMER P.O. NO.: 13  
PPI NO.: 5612  
DRAWN: MLR DATE: 12/4/15  
CHECKED: MUD DATE: 12/4/15  
DRAWING NO.: S/O 5612-11  
SHEET NUMBER: 3  
REVISION NO.: 2

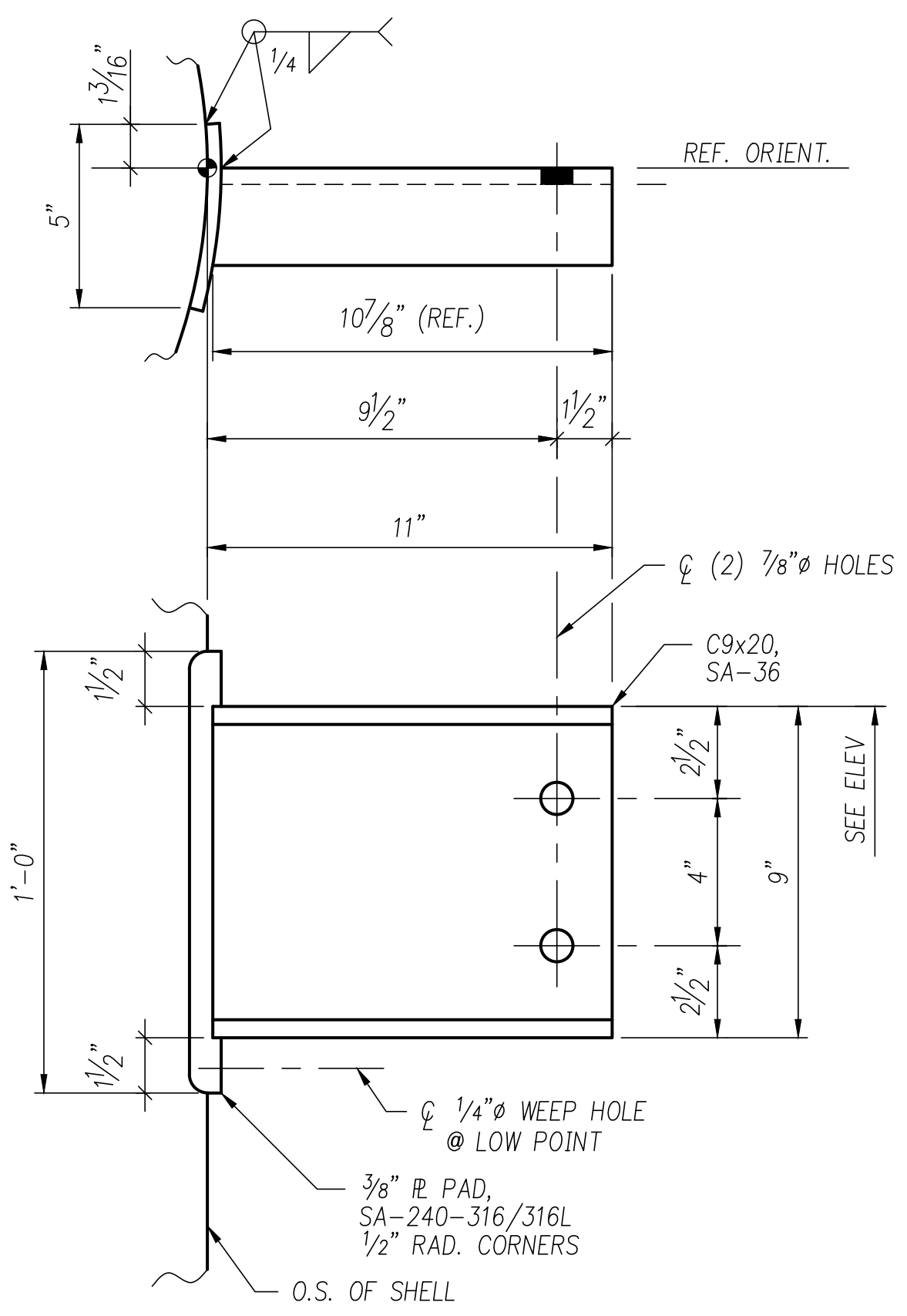
FILE NAME: 5612-11  
PLOT DATE: 12/4/15  
PLOT TIME: 10:00  
BY: MLR



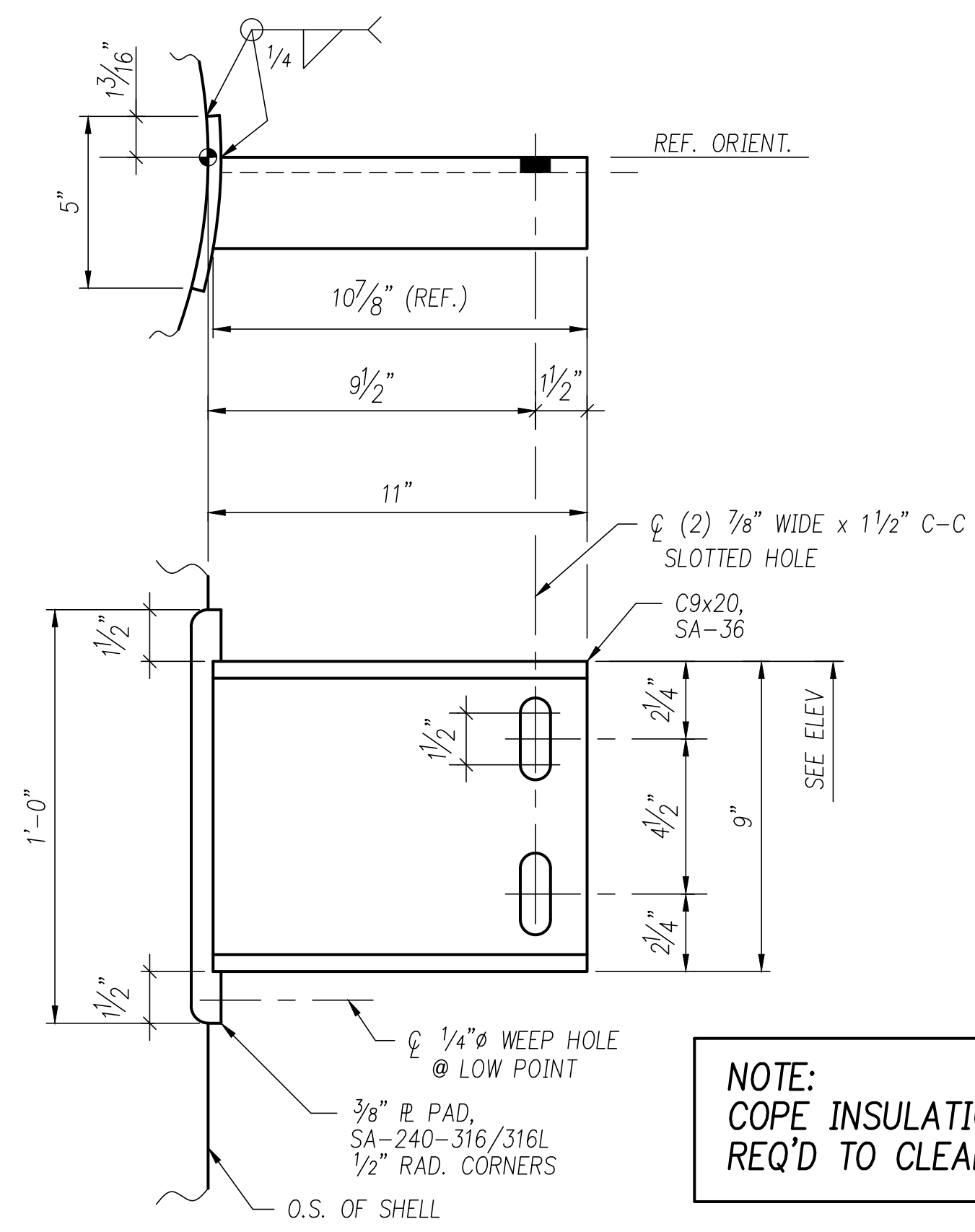
**DETAIL OF ANCHOR CLIP MK "G1"**  
ONE (1) REQ'D



**DETAIL OF GUIDE CLIP MK "G2"**  
ONE (1) REQ'D



**DETAIL OF ANCHOR CLIP MK "G3"**  
ONE (1) REQ'D



**DETAIL OF GUIDE CLIPS MK "G4 & G5"**  
TWO (2) REQ'D

**NOTE:**  
COPE INSULATION RINGS AS REQ'D TO CLEAR GUIDE CLIPS

**CLIP COATING REQUIREMENTS**

- ALL C.S. CLIP SURFACES PER MRKH-SP-PI-0003 3.2.3:  
 1.) SURFACE PREP: SSPC-SP10  
 2.) PRIMER: EPOXY PHENOLIC, THERMALINE 450, 4.0-6.0 MILS D.F.T.

NO.	REVISION	BY	DATE
2	ADDED CLIP COATING REQUIREMENTS	MLR	4/7/16
1	REVISED PER CUSTOMER APPROVAL	MLR	3/29/16
0	ISSUED FOR CUSTOMER APPROVAL	MLR	3/16/16

**PPI Professional Projects, Inc.**  
 P.O. BOX 618 (18115 TELGE RD.) CYPRESS, TEXAS 77429

TITLE: 30" OD x 38'-0" S/S  
 ITEM: T-1110, AMINE CONTACTOR  
**PIPE GUIDE & SUPPORT DETAILS**

CUSTOMER: INFRA TECHNOLOGY LLC  
 HOUSTON, TEXAS

CUSTOMER P.O. NO. 13 PPI NO. 5612

DRAWN: MLR DATE: 3/16/16 CHECKED: MUD DATE: 3/16/16

DRAWING NO. SHEET NUMBER REVISION NO.  
 S/O 5612-11 4 2

FILE NAME: 5612-11  
 PLOT DATE: 3/16/16  
 PLOT TIME: 10:00  
 BY: MLR