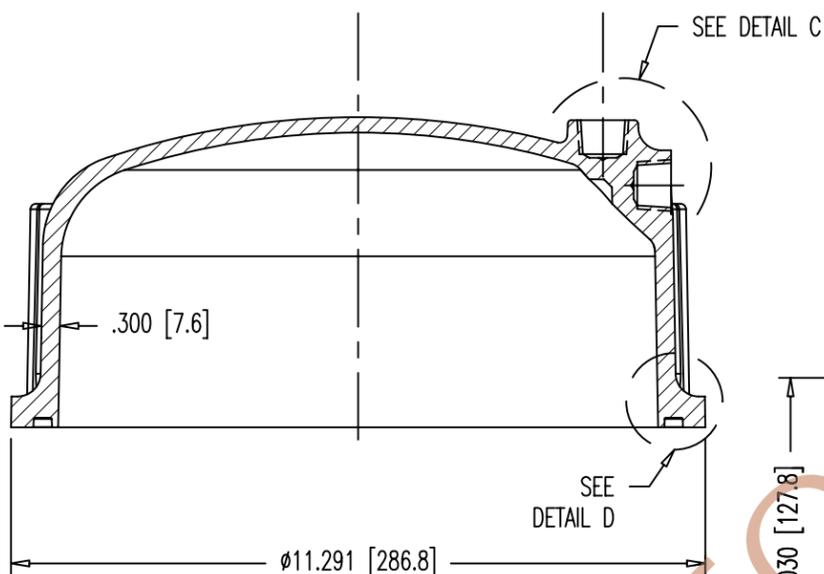
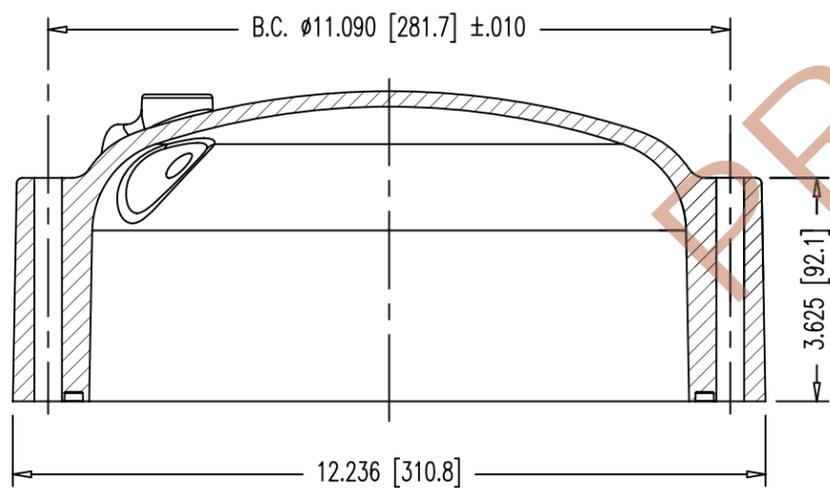


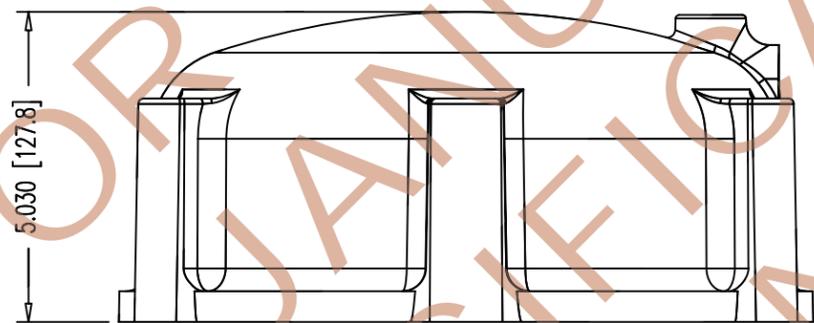
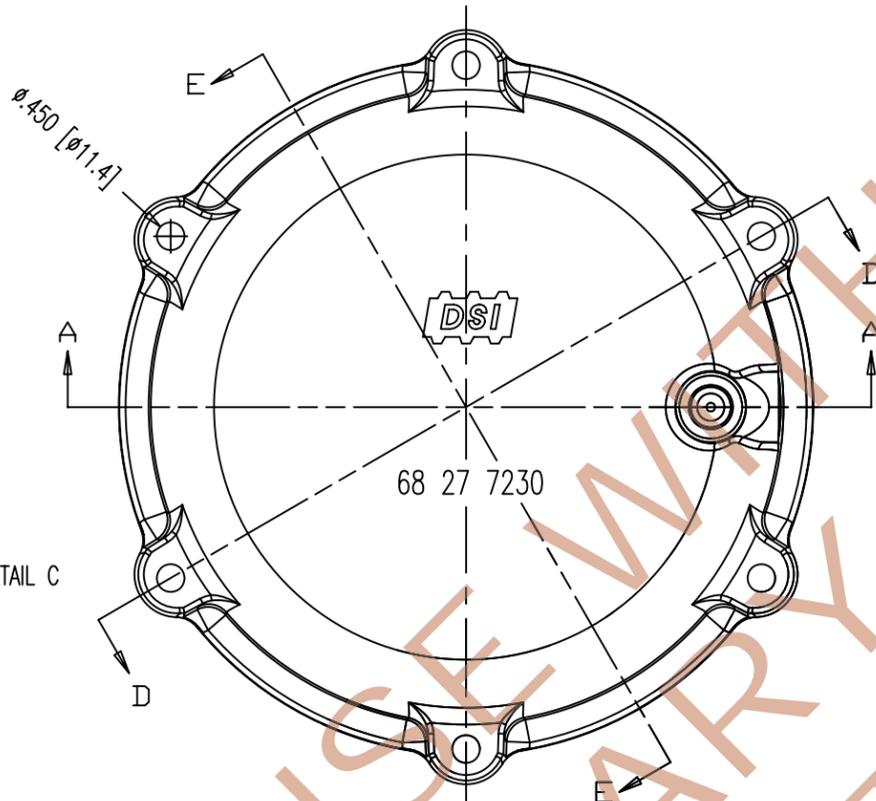
SECTION E-E



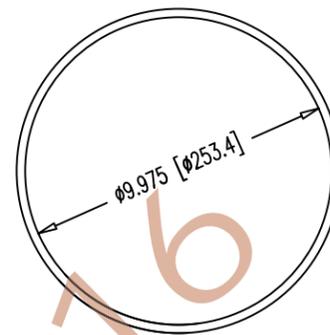
SECTION A-A



SECTION D-D



5.030 [127.8]



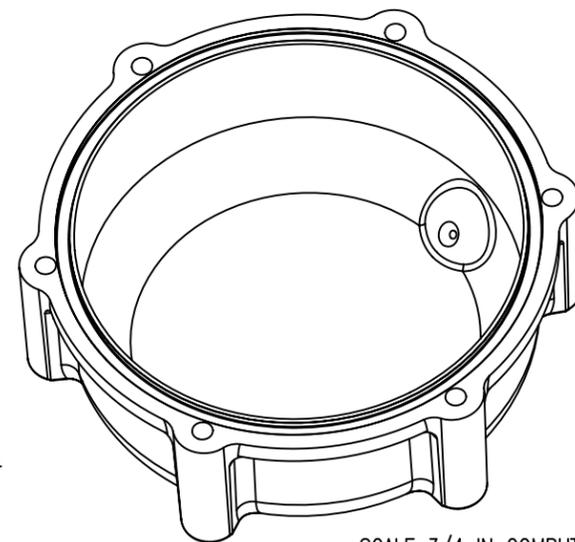
Ø.275 [7.0]

#449 O-RING 10x10-1/2x1/4
O-RING MATERIAL: BUNA "N"

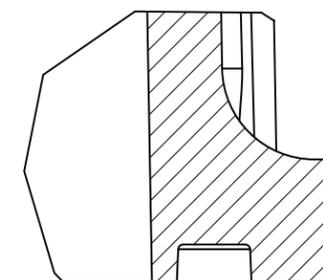
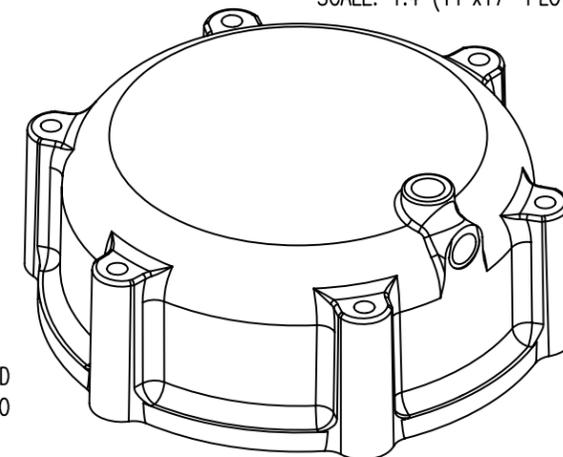
SCALE 1:2 IN COMPUTER (SCALE: 1:6 11"x17" PLOT)

NOTES:

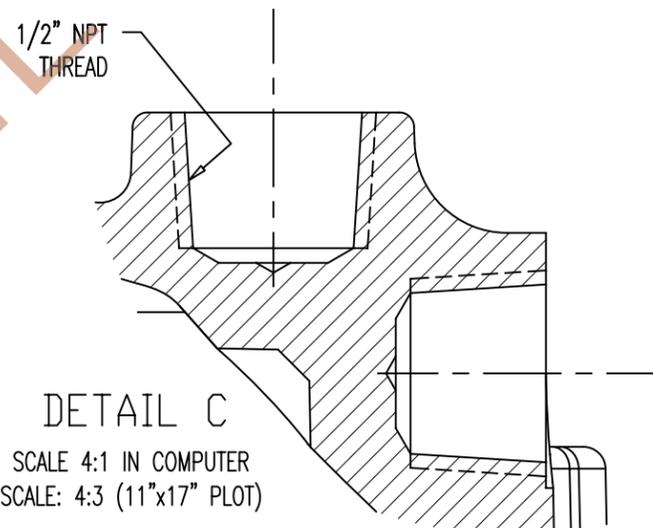
1. ALL DIMENSIONS DEPENDENT ON 3D DATA BASE USED FOR MOLD FABRICATION
2. USE 3/8"-16UNC 316L S.S. HEX BOLTS, 4-1/2" LONG W/SMALL DIA. WASHER.
3. INSTALL O-RING IN GROOVE USING DROPS OF LIQUID ADHESIVE BEFORE SHIPPING. DON'T USE EXCESSIVE ADHESIVE. O-RING MUST STAY IN PLACE UNTIL INSTALLATION.
4. THE CELL CLASSIFICATION SHALL CONFORM TO ASTM D5989 AND SHALL BE S-PA0141 (WEATHER RESISTANT), S-PA0231 OR S-PA0401 (TENSILE STRENGTH, YIELD 15000 PSI MIN., WITH UV STABILIZER ADDED).
5. DRILL 1/2" [12.7] HOLE IN PORT BEING USED—CAUTION—RECOMMEND USING HOLE SAW BIT OR SPADE BIT (BY OTHERS), BE CAREFULL TO PREVENT DAMAGE TO THREADS OR CAP.
6. WHEN PRESSURIZING GROUT CAPS, DO NOT STAND BEHIND CAPS!



SCALE 3/4 IN COMPUTER
SCALE: 1:4 (11"x17" PLOT)



DETAIL D
SCALE 4:1 IN COMPUTER
SCALE: 4:3 (11"x17" PLOT)



DETAIL C
SCALE 4:1 IN COMPUTER
SCALE: 4:3 (11"x17" PLOT)

Tolerance Note:
All tolerances are based on SPI/SPE and should be as follows unless specified otherwise:

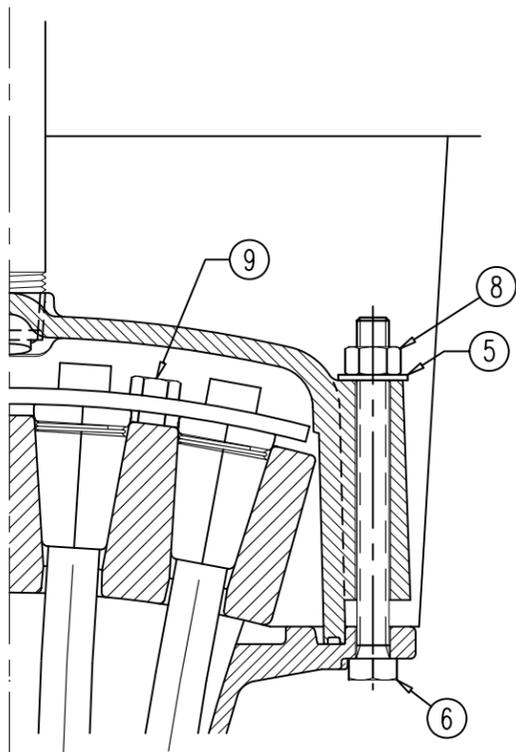
Dim.	Tolerance
0-1"	+/- 0.005"
1-2"	+/- 0.007"
2-3"	+/- 0.009"
3-4"	+/- 0.011"
4-5"	+/- 0.013"
5-6"	+/- 0.015"
6-7"	+/- 0.017"
7-8"	+/- 0.019"
8-9"	+/- 0.021"
9-10"	+/- 0.023"
10-11"	+/- 0.025"
11-12"	+/- 0.027"

DIMENSIONS: INCH (mm) mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60072300P		TOLERANCES: ±.020 UNLESS NOTED		WEIGHT 3.95 LBS.		REV.	DATE	NAME	PART NUMBER: 68 27 7230
27-0.6" PLASTIC GROUT CAP				MATERIAL: NYLON 6, 20% GLASS FIBER FILLED		SCALE 1:3					DRAWING NUMBER: 68 27 7230
DATE: 09-14-07		DWG: G. MALECKI		CHK: E.A.		APP: K.S.		APPROVED BY FDOT 09-14-07			

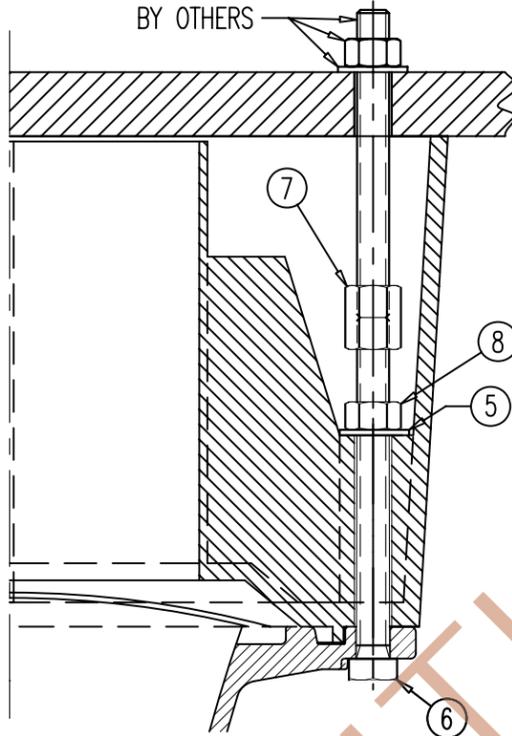
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI'S SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100
320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405

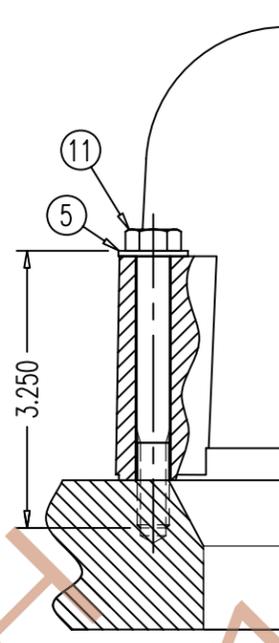




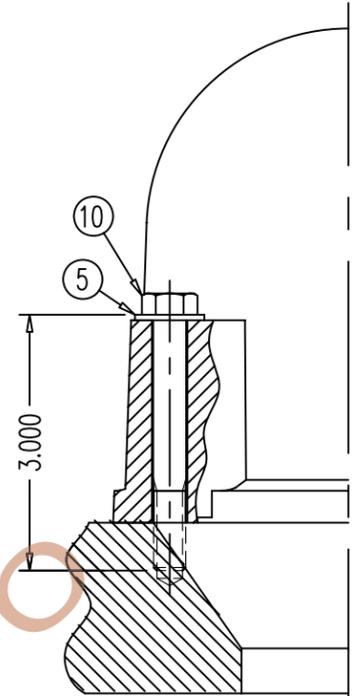
KEEPER PLATE 68 04 2637 ON
WEDGE PLATE 68 04 2534A &
GROUT CAP 68 04 2539 ON Δ
FLAT ANCHOR 68 04 2531



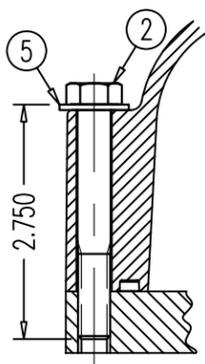
POCKET FORMER 68 04 2640
ON FLAT ANCHOR 68 04 2531



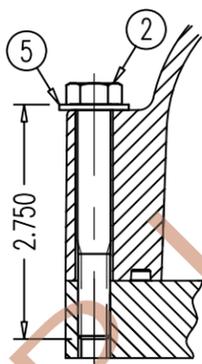
BAR GROUT CAP
B36E50700 & B65E50700



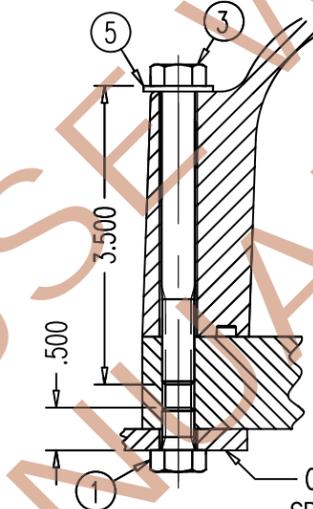
BAR GROUT CAP
B46E50700



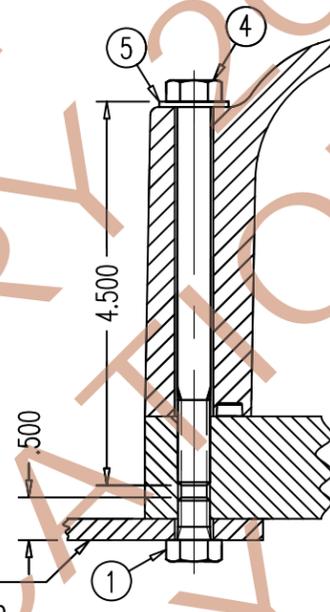
GROUT CAP 68 07 7230
ON MPA 68 07 216



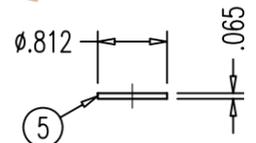
GROUT CAP 68 12 7230
ON MPA 68 12 216



GROUT CAP 68 19 7230
ON MPA 68 19 216



GROUT CAP 68 27 7230
ON MPA 68 27 216



TYPE A NARROW WASHER
FOR 3/8"-UNC BOLT

POS.	PART NUMBER	DISCRIPTION (ALL PARTS 316L STAINLESS STEEL UNLESS NOTED)
①	00 00 770	3/8"-16UNC HEX BOLT, 1/2" LONG, ZINC PLATED
②	00 00 771	3/8"-16UNC HEX BOLT, 2-3/4" LONG (1" LONG THREAD)
③	00 00 772	3/8"-16UNC HEX BOLT, 3-1/2" LONG (1" LONG THREAD)
④	00 00 773	3/8"-16UNC HEX BOLT, 4-1/2" LONG (1" LONG THREAD)
⑤	00 00 774	TYPE A NARROW WASHER FOR 3/8"-UNC BOLT
⑥	00 00 775	3/8"-16UNC HEX BOLT, 4" LONG (FULL THREAD)
⑦	00 00 776	3/8"-16UNC COUPLER, ZINC COATED
⑧	00 00 777	3/8"-16UNC HEX NUT
⑨	00 00 778	5/16"-18UNC HEX BOLT, 7/8" LONG, ZINC PLATED
⑩	00 00 782	3/8"-16UNC HEX BOLT, 3" LONG (1" LONG THREAD)
⑪	00 00 783	3/8"-16UNC HEX BOLT, 3-1/4" LONG (1" LONG THREAD)

NOTE:
THE 316L S.S. BOLTS ARE SPECIAL ORDER.
ALL WASHERS, HEX NUTS & COUPLERS HAVE
NO MARKINGS.

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH

QUALITY PLAN NUMBER:

STAINLESS STEEL 316L BOLTS AND WASHER FOR PLASTIC GROUT CAPS

DATE: 09-14-07 DWG: G. MALECKI CHK: E.A. APP: K.S.

THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF **DYWIDAG SYSTEMS INTERNATIONAL, USA, INC.** THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY **DSI's** SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.

REV.	DATE	NAME	PART NUMBERS:
			00 00 770 00 00 776
			00 00 771 00 00 777
			00 00 772 00 00 778
			00 00 773 00 00 782
			00 00 774 00 00 783
			00 00 775

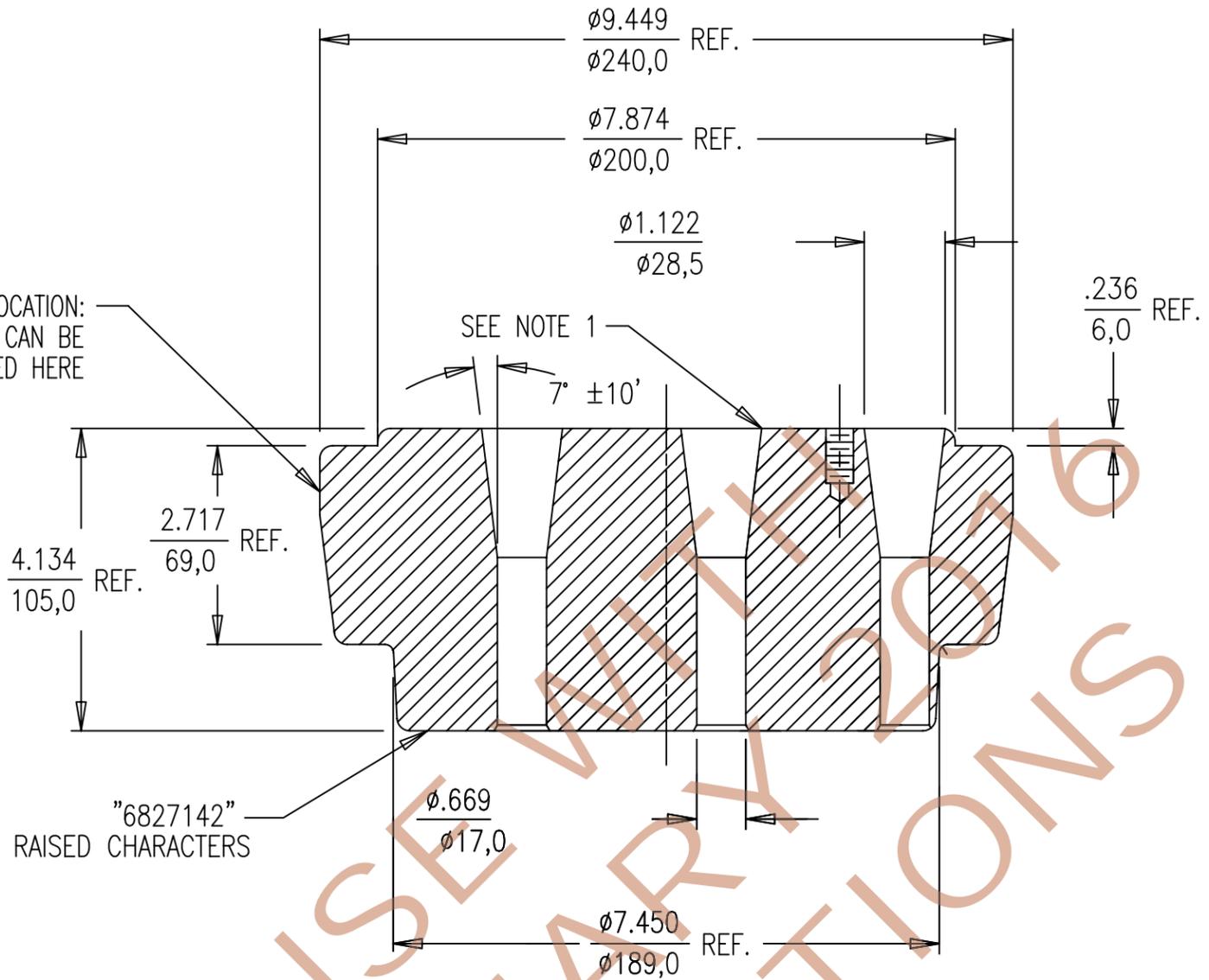
SCALE
1:3

DRAWING NUMBER:
00 00 770

DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.
POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100
320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405



ALTERNATE LOCATION:
"6827142" CAN BE
ROLL STAMPED HERE

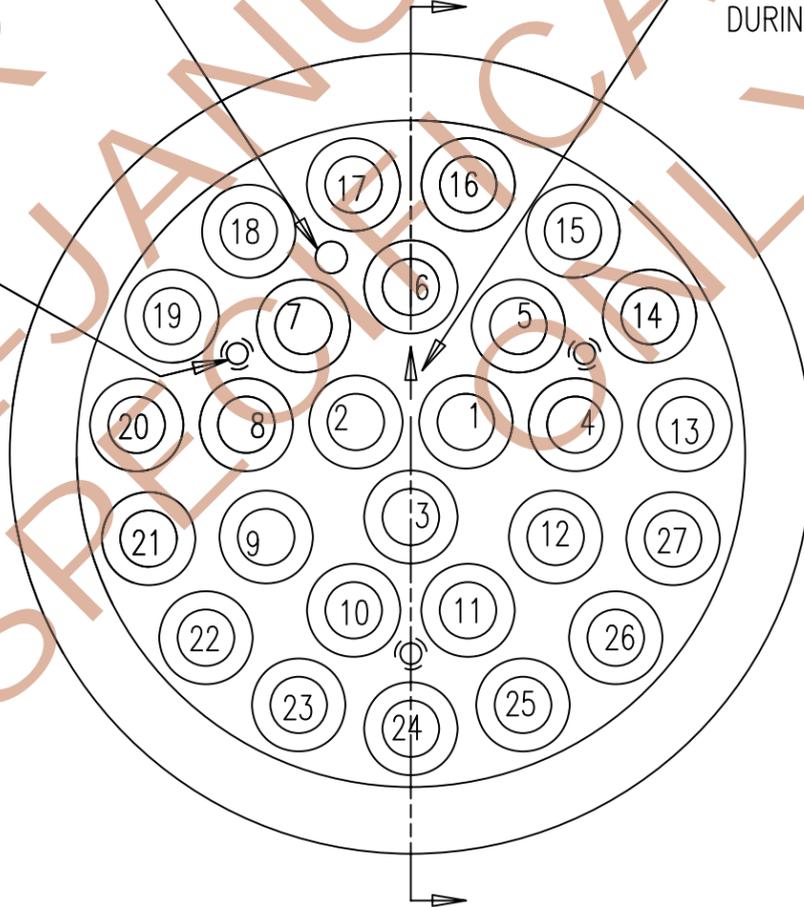


"6827142"
RAISED CHARACTERS

3/8" THRU HOLE
B.C. $\phi 5.000$
B.C. $\phi 127,0$

ARROW MUST POINT UP
DURING INSTALLATION

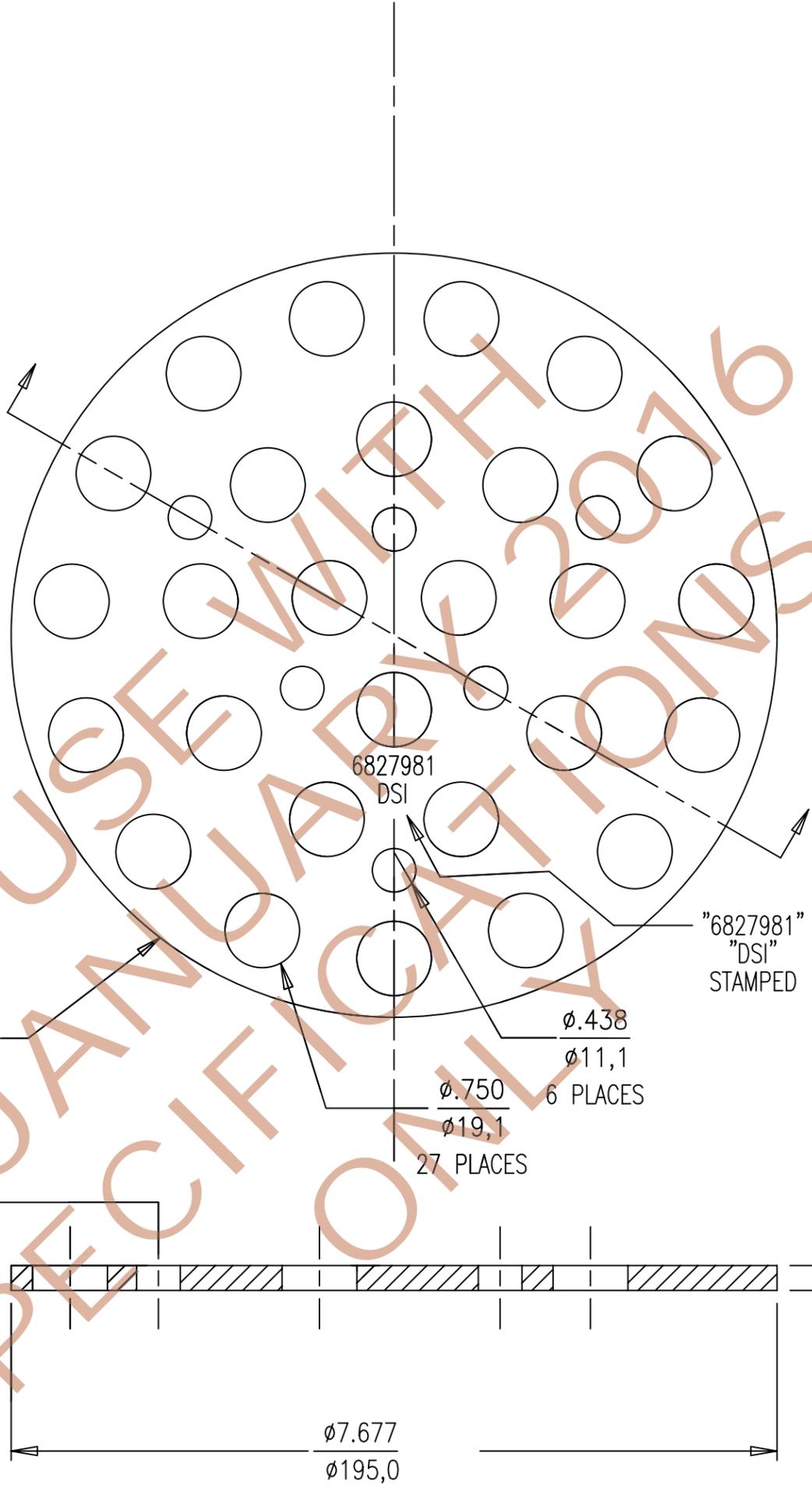
3/8"-16UNC
DRILL 1" (25,4)
DEEP, TAPPED
3/4" (19,1) DEEP
(3) PLACES FOR KEEPER
PLATE (SEE NOTE 5)
B.C. $\phi 4.724$
B.C. $\phi 120,0$



- NOTES:
1. BREAK EDGE OF WEDGE HOLES.
 2. USE 3-PART WEDGE P/N 68 00 0536.
 3. WEDGE PLATE DIPPED IN BEL-RAY RP-30 FOR CORROSION PROTECTION.
 4. USE WEDGE PLATE BLANK 68 27 142 91 FOR RAW MATERIAL.
 5. USE KEEPER PLATE ONLY FOR PRE-ASSEMBLED AND INACCESSIBLE DEAD END ANCHORS. USE (3) BLACK HEX BOLTS, 1" LONG WITH NARROW WASHERS (BY OTHERS).

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH/mm mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS00014200F		TOLERANCES: $\pm .020$ UNLESS NOTED	WEIGHT 52.7 LBS.	REV.	DATE	NAME	PART NUMBER: 68 27 143
27-0.6" FORGED WEDGE PLATE FOR FIXED END				MATERIAL: SEE DRAWING 68 27 142 91	SCALE 1:3				DRAWING NUMBER: 6827143
DATE: 09-14-07	DWG: G. MALECKI	CHK: H.K.	APP: K.S.	DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405					
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.									

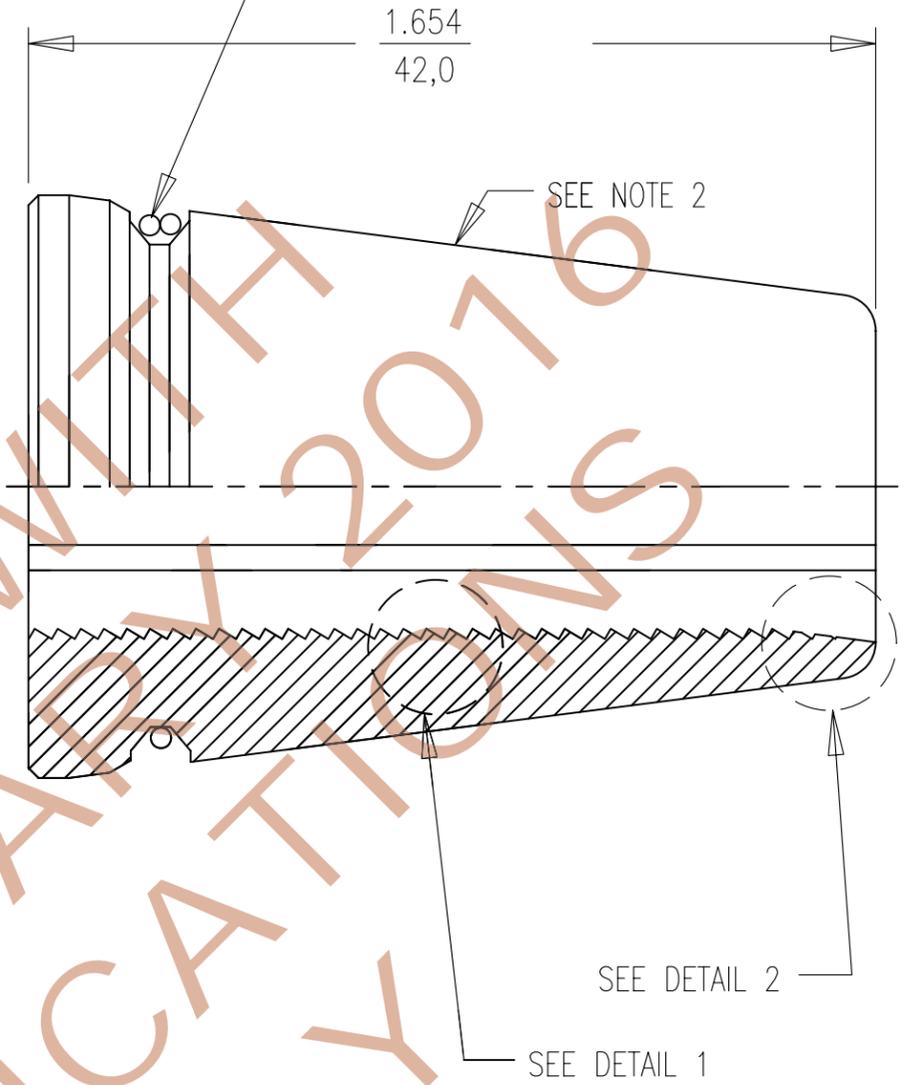
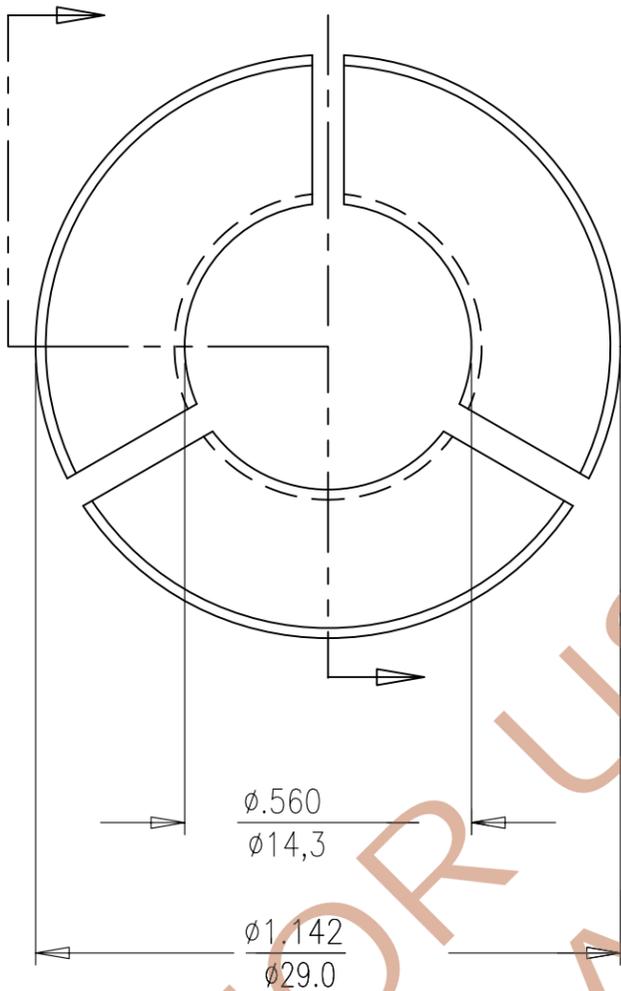


NOTE:
 USE KEEPER PLATE ONLY FOR PRE-ASSEMBLED
 AND INACCESSIBLE DEAD END ANCHORS.

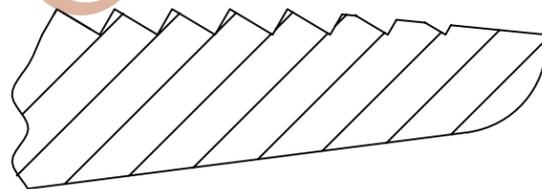
APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60098100L		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT 2.4 LBS.	REV.	DATE	NAME	PART NUMBER: 68 27 981
27-0.6" KEEPER PLATE				MATERIAL: AISI 1020 OR EQUIV.	SCALE 1:2				DRAWING NUMBER: 68 27 981
				DATE: 09-14-07 DWG: G. MALECKI CHK: K.L. APP: K.S.		DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405			
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.									

SPRING WIRE RING:
 WIRE $\phi = .040$ (1,0), ID = .905 (23.0)
 NO. OF TURNS: $1.5 \pm .25$
 WIRE QUALITY: ASTM 228



DETAIL 1
5:1



DETAIL 2
5:1

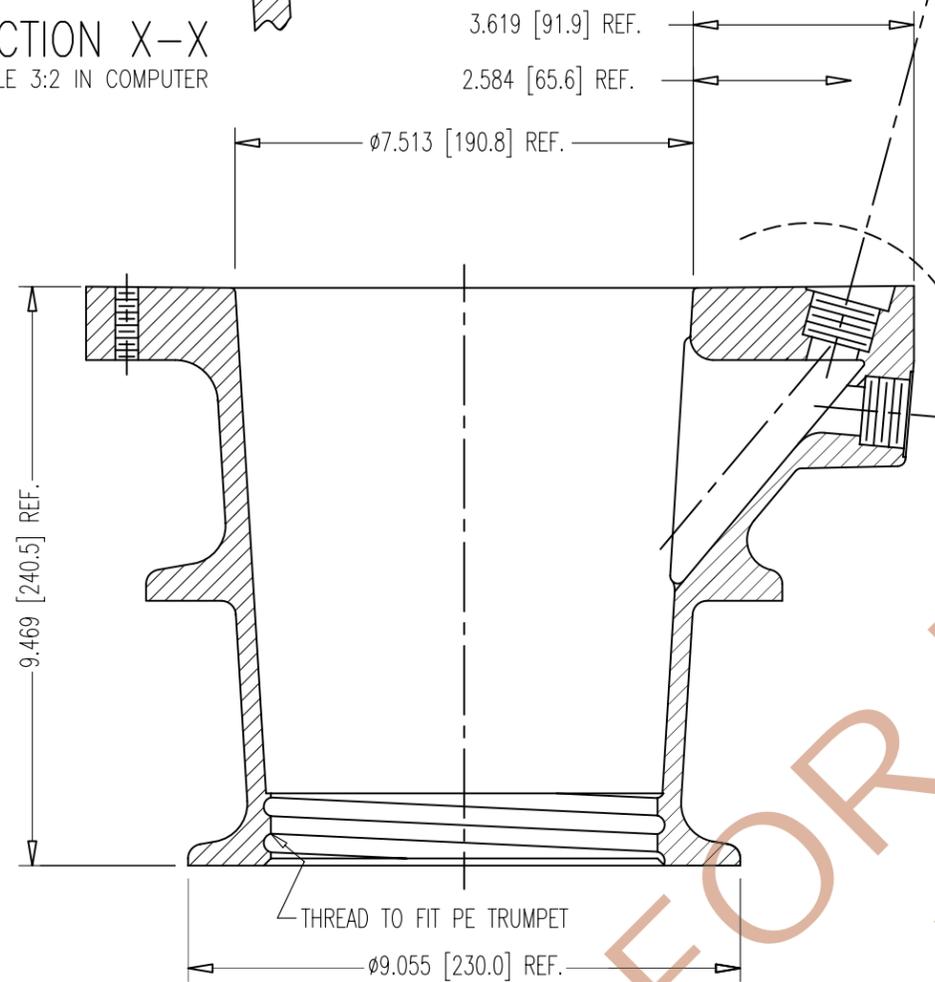
NOTES:

5. NO STAMPED PART NUMBER

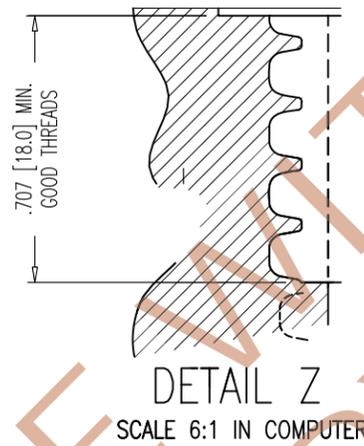
APPROVED BY FDOT 05-31-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS00000500DP2		TOLERANCES: $\pm .010$; $\pm 2^\circ$ UNLESS NOTED	WEIGHT 0.19 LBS.	REV.	DATE	NAME	PART NUMBER: 68 00 0536
3-PART WEDGE 7° x 29 mm x 42 mm 0.6" STRAND				MATERIAL: SEE MAT'L SPEC. PMU0005360B	SCALE 2:1 5:1				DRAWING NUMBER: 68 00 0536
				DATE: 05-31-07	DWG: G. MALECKI	CHK: C.S.	APP: K.L.		
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.				DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100 320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405					

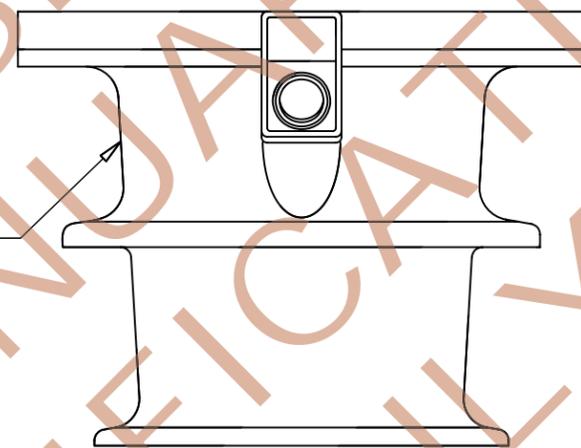
SECTION X-X
SCALE 3:2 IN COMPUTER



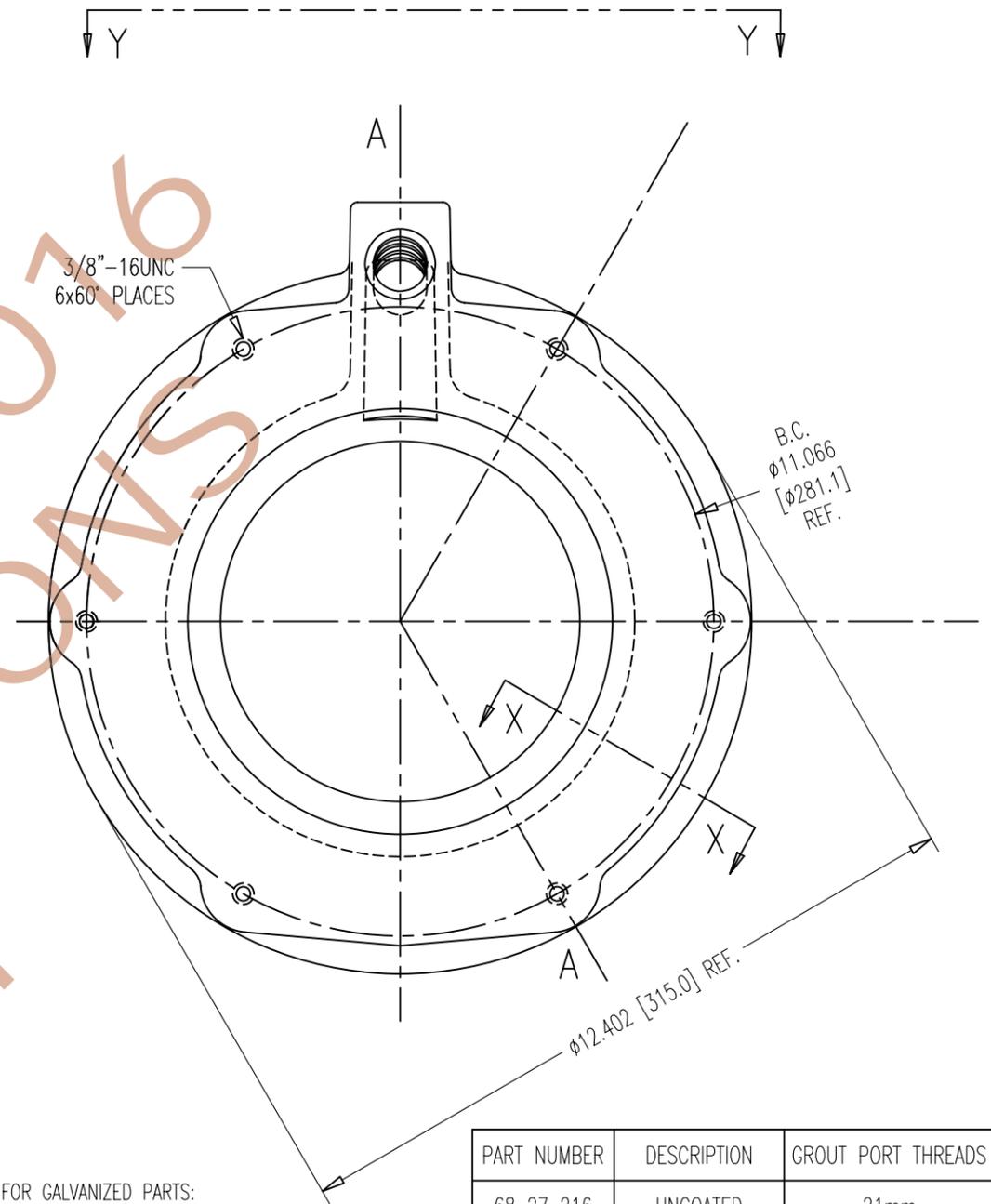
SECTION A-A
(SHOWN WITH 21mm GROUT PORT THREADS)



DETAIL Z
SCALE 6:1 IN COMPUTER



VIEW Y-Y
SCALE 3:4 IN COMPUTER

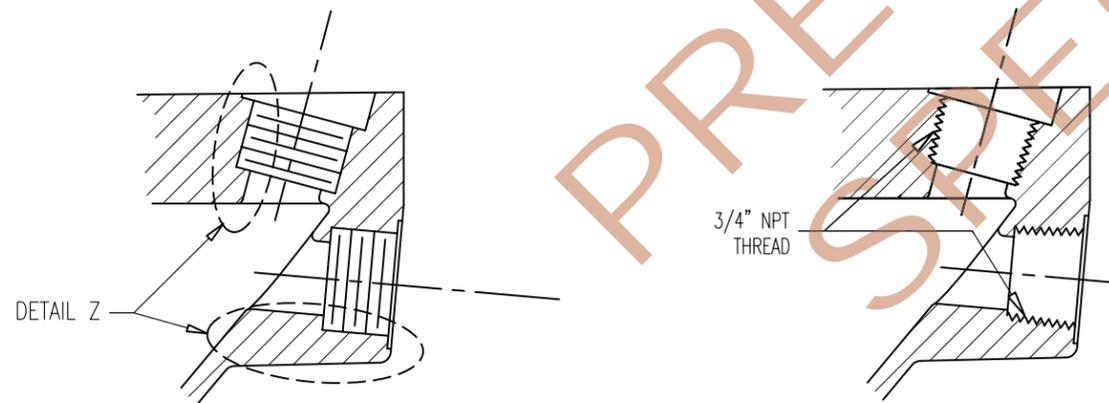


- NOTES FOR GALVANIZED PARTS:
1. HOT DIP GALV. ACCORD. TO ASTM A123.
 2. ASSURE THREADABILITY OF THREADED HOLES AFTER GALVANIZING.
 3. PROTECT THREADED HOLES WITH ZINC PAINT.

PART NUMBER	DESCRIPTION	GROUT PORT THREADS
68 27 216	UNCOATED	21mm
68 27 238	GALVANIZED	21mm
68 27 246	UNCOATED	3/4" NPT
68 27 248	GALVANIZED	3/4" NPT

SEE 68 27 216 90 FOR RAW CASTING. ALL PARTS HAVE 3/8"-16UNC THREADS ADDED TO RAW CASTING.

APPROVED BY FDOT 09-14-07

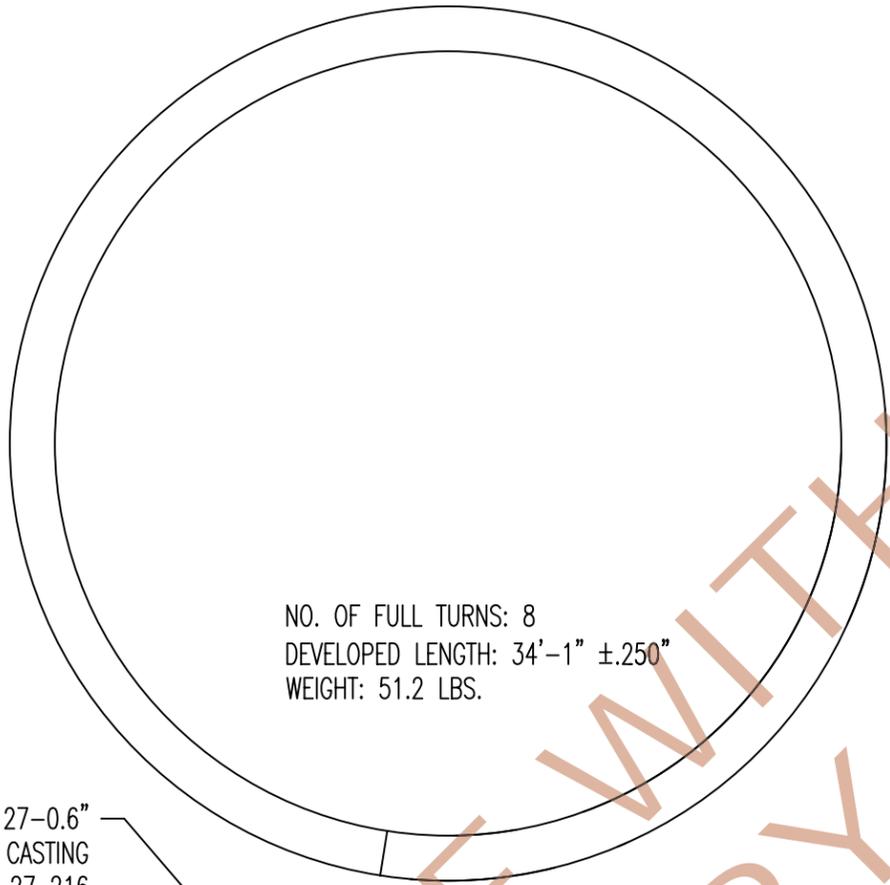


GROUT PORT THREADS WITH 21mm THREADS
SCALE 3:2 IN COMPUTER

GROUT PORT THREADS WITH 3/4" NPT THREADS
SCALE 3:2 IN COMPUTER

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60021200C		TOLERANCES: ±.030 ±2" UNLESS NOTED	WEIGHT 52 LBS.	REV.	DATE	NAME	PART NUMBER: 68 27 216 68 27 238 68 27 246 68 27 248
27-0.6"/37-0.5" MULTI-PLANE ANCHOR WITH TWO GROUT PORTS				MATERIAL: SEE MAT'L SPEC. PM0021200C	SCALE 1:3				DRAWING NUMBER: 68 27 216
DATE: 09-14-07	DWG: G. MALECKI	CHK: H.K.	APP: K.S.	DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405					

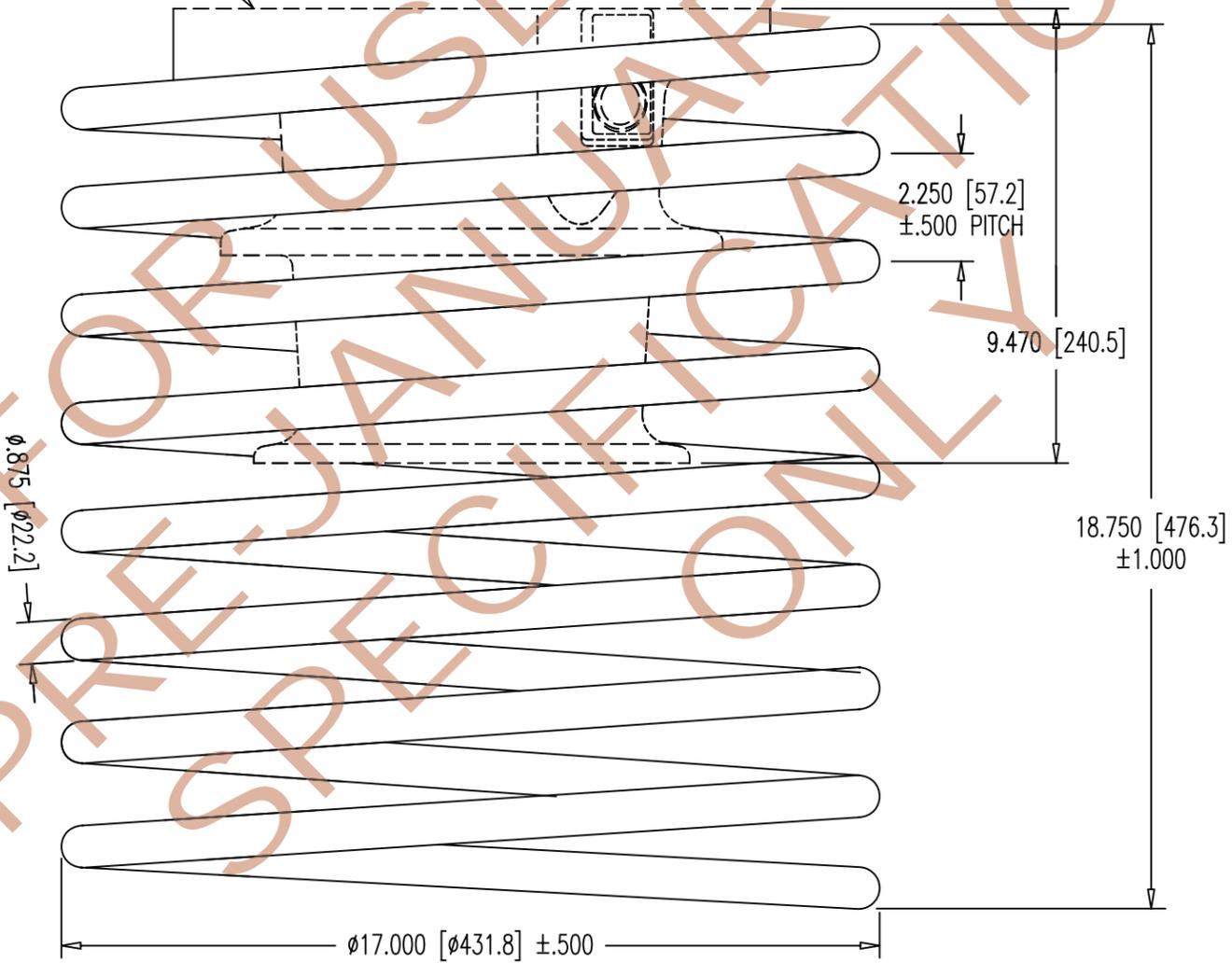




- NOTES:
1. SPIRAL IS MADE FROM STANDARD #6 REBAR, NO PART NUMBER MARKING IS SHOWN.
 2. KEEP SPIRAL AND MPA AXIS ALIGNED, IF USING SIDE PORT, ROTATE SPIRAL TO CLEAR.

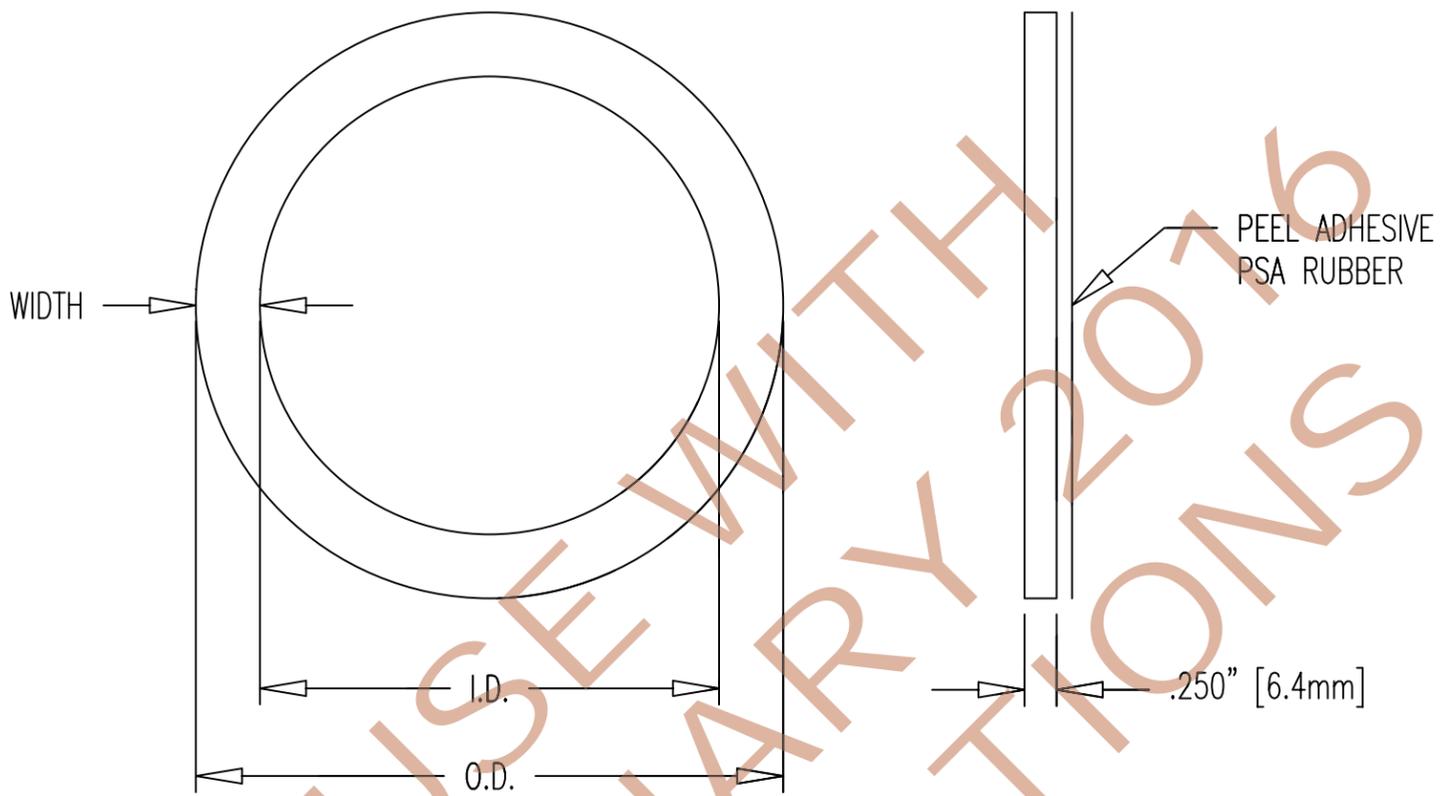
NO. OF FULL TURNS: 8
 DEVELOPED LENGTH: 34'-1" ±.250"
 WEIGHT: 51.2 LBS.

27-0.6"
 MPA CASTING
 68 27 216



APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT 51.2 LBS.	REV.	DATE	NAME	PART NUMBER: 68 27 254
STANDARD SPIRAL FOR 27-0.6"/37-0.5" MPA				MATERIAL: ASTM A615 SIZE #6, GR 60	SCALE 1:5				DRAWING NUMBER: 68 27 254
				DATE: 09-14-07	DWG: G. MALECKI	CHK: S.Y.	APP: E.A.	THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.	
				DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405					

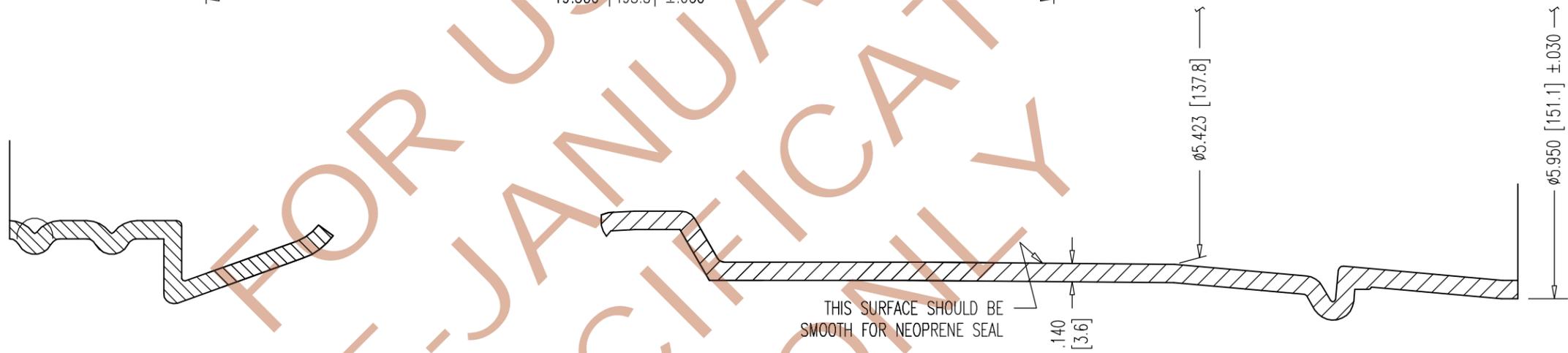
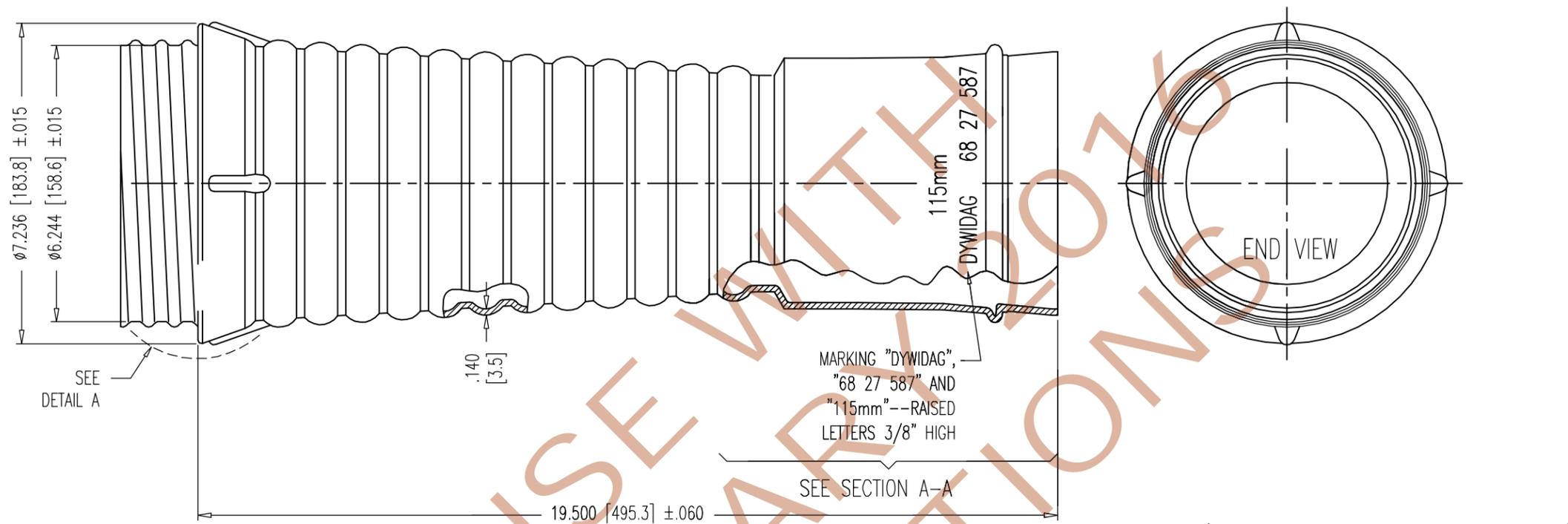


PART NUMBER	SYSTEM	O.D.	I.D.	WIDTH
68 07 584	7-0.6"	ø4.580" [116mm]	ø3.580" [91mm]	.500" [12.7mm]
68 12 584	12-0.6"	ø5.695" [145mm]	ø4.820" [122mm]	.438" [11.1mm]
68 19 584	19-0.6"	ø6.675" [170mm]	ø5.800" [147mm]	.438" [11.1mm]
68 27 584	27-0.6"	ø7.340" [186mm]	ø6.340" [161mm]	.500" [12.7mm]

NOTE:
SPECIAL ORDER
NO STAMPED PART NUMBER

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60063300R		TOLERANCES: ±.030 UNLESS NOTED		REV.	DATE	NAME	PART NUMBER: 68 07 584 68 12 584 68 19 584 68 27 584	
RUBBER SEAL BETWEEN MPA AND TRUMPET				MATERIAL: CLOSED CELL NEOPRENE BLEND		SCALE NTS				DRAWING NUMBER: 68 00 584
DATE: 09-14-07	DWG: G. MALECKI	CHK: C.N.	APP: E.A.	DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405						
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI'S SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.										



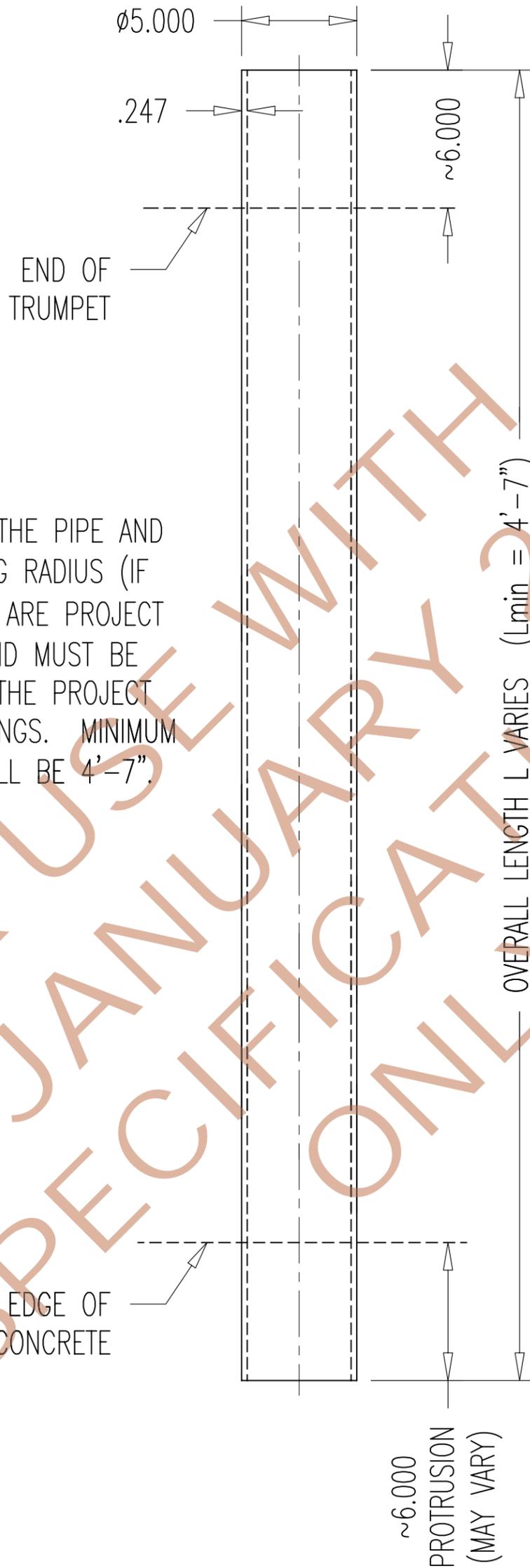
DETAIL A
 THREAD FITS INTO 27-0.6" MPA
 CASTING (SEE DRAWING 68 27 216)

SECTION A-A
 THESE INSIDE DIMENSIONS ARE MORE
 IMPORTANT THAN OUTSIDE DIMENSIONS
 (MUST FIT OVER 115mm GTI DUCT U00220460)

MATERIAL SPECIFICATIONS:
 MANUFACTURE TRUMPETS FROM NON-COLORED,
 UNFILLED POLYETHYLENE MEETING THE REQUIREMENTS
 OF ASTM D4976. THE TRUMPET SHALL BE WHITE IN
 COLOR CONTAINING ANTIOXIDANT(S) WITH A MINIMUM
 OXIDATION INDUCTION TIME (OIT) ACCORDING TO ASTM
 D 3895 OF 20 MINUTES AND CONTAINING A NON-YELLOWING
 LIGHT STABILIZER. THE STRESS CRACK RESISTANCE TEST OF
 THE TRUMPET SHALL RESULT IN A MINIMUM FAILURE TIME OF
 3 HOURS ACCORDING TO F 2136 AT AN APPLIED STRESS OF 348 PSI

APPROVED BY FDOT 09-14-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER: QS60058800P		TOLERANCES: ±.020 UNLESS NOTED	WEIGHT	REV. 01	DATE 09-14-07	NAME S.N.	PART NUMBER: 68 27 587
27-0.6"/37-0.5" SHORT PE TRUMPET FOR MPA CASTINGS				MATERIAL: SEE ABOVE	SCALE 1:3 1:1				DRAWING NUMBER: 68 27 587
DATE: 09-14-07	DWG: G. MALECKI	CHK: E.A.	APP: K.S.	THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI'S SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.					
DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. POST TENSIONING / REINFORCING UNIT PHONE: 630-739-1100 320 MARMON DRIVE - BOLINGBROOK, IL FAX: 630-739-1405									

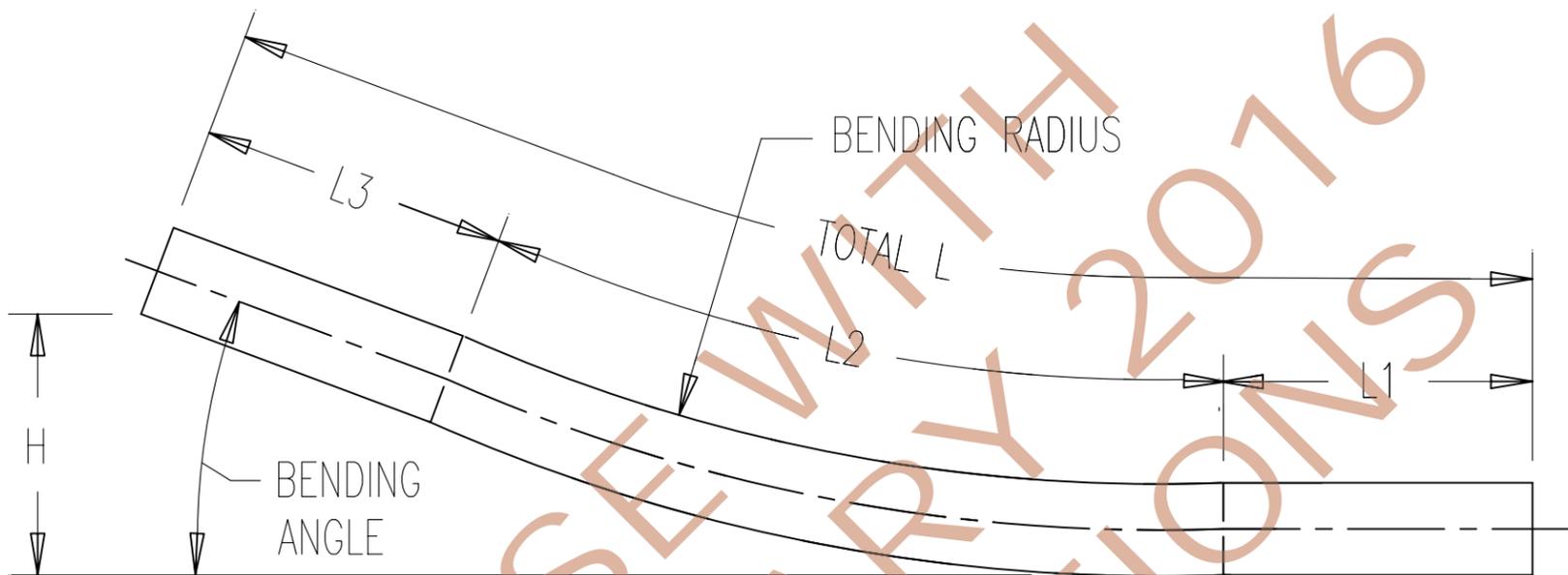


NOTE:
 LENGTH OF THE PIPE AND
 THE BENDING RADIUS (IF
 NECESSARY) ARE PROJECT
 SPECIFIC, AND MUST BE
 SHOWN ON THE PROJECT
 SHOP DRAWINGS. MINIMUM
 LENGTH SHALL BE 4'-7".

FOR USE WITH 2016
 PRE-JANUARY 2016
 SPECIFICATIONS ONLY

APPROVED BY FDOT 12-12-07

DIMENSIONS: INCH	QUALITY PLAN NUMBER:		WEIGHT 12.52 LBS./FT.	REV.	DATE	NAME	DRAWING NUMBER: CH-2725
DIAPHRAGM PIPE FOR 27-0.6" EXTERNAL TENDON		MATERIAL: 4-1/2" STD STEEL PIPE GALVANIZED	SCALE 1:8				DRAWING NUMBER: CH-2725
DATE: 07-18-07	DWG: G. MALECKI			CHK: S.I.	APP: E.A.		
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.			DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405				

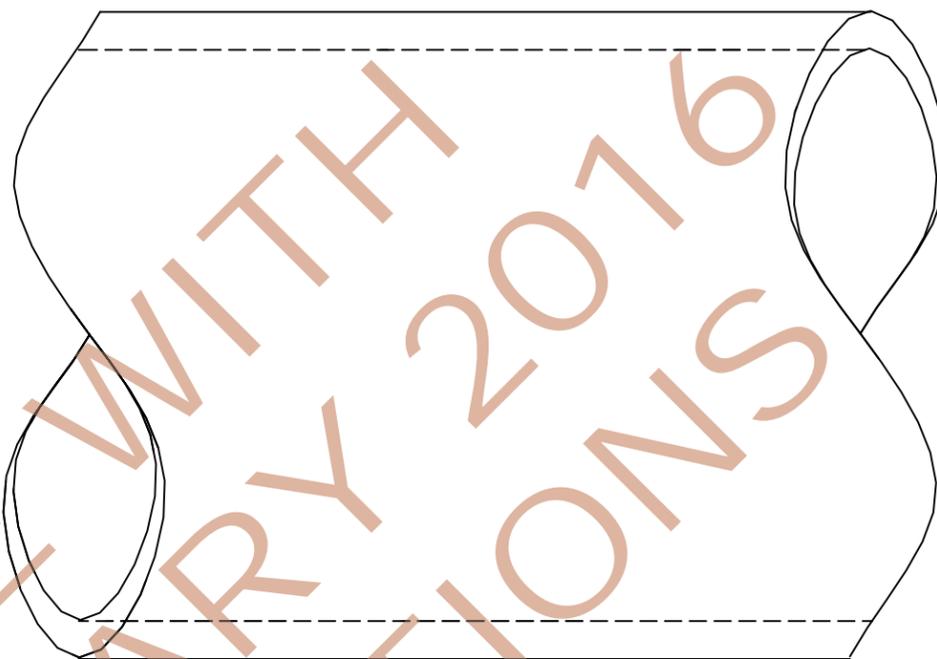
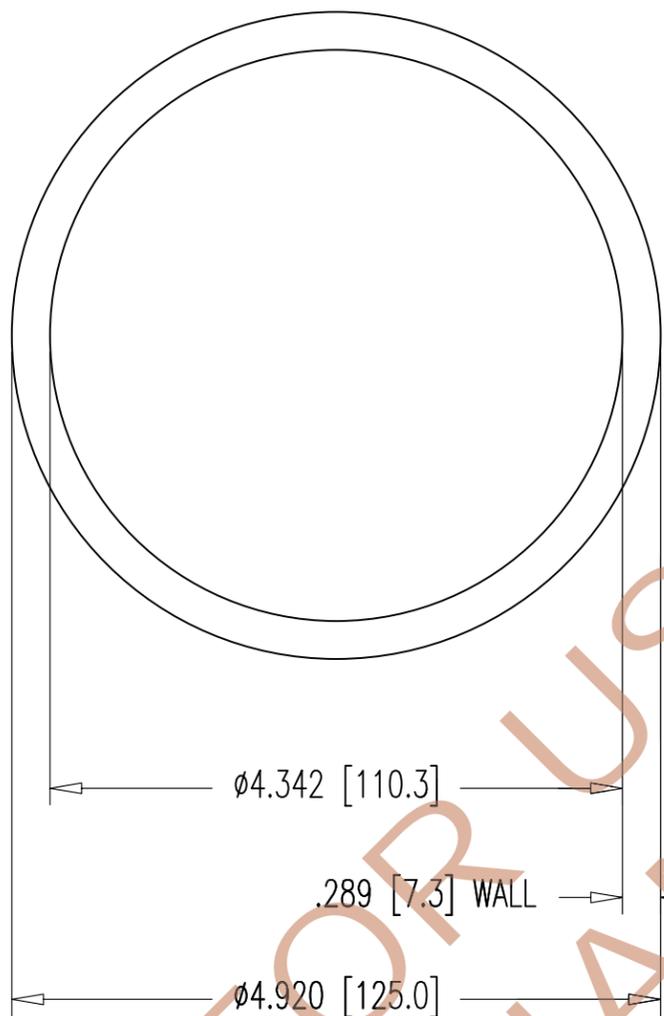


1. PART NUMBERS, EXACT DIMENSIONS AND BENDING ANGLES TO BE SPECIFIED FOR EACH ORDER.
2. ALL MARKINGS ARE PAINTED.
3. STRAIGHT ENDS (L1/L3) SHORTER THAN 1 FT LONG WILL NEED TO BE RECUT AFTER BENDING.
4. LENGTH AND BENDING RADIUS VALUES ARE PROJECT SPECIFIC AND SHALL BE SHOWN ON THE SHOP DRAWINGS.

PIPE	OD (IN./mm)	WALL (IN./mm)	ID (IN./mm)	WEIGHT (LBS/FT)
4-1/2" STD	5.000/127.0	.247/6.3	4.506/114.5	12.53
STANDARD STEEL PIPE ASTM A53 GR B, HOT DIP GALVANIZED PER ASTM A123				

APPROVED BY FDOT 12-12-07

DIMENSIONS: INCH mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		REV.		DATE		NAME		PART NUMBER:	
27-0.6" GALVANIZED BENT DEVIATOR PIPE				MATERIAL: SEE ABOVE		SCALE NTS				PROJECT DEPENDENT	
										DRAWING NUMBER: CH-2752	
DATE: 10-26-07	DWG: G. MALECKI	CHK: S.N.	APP: K.S.	DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC.							
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI'S SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.				320 MARMON DRIVE - BOLINGBROOK, IL 60440							
				PHONE: 630-739-1100				FAX: 630-739-1405			



NOTES:

1. MATERIAL: 125mm SDR17, EHMW PE3608 (BLACK).
2. PIPE IS COLORED BLACK AND IS UV STABILIZED FOR EXTERNAL TENDONS.

MANUFACTURER: POLYPIPE, INC.

MANUFACTURER PART ORDER NUMBER:
125mm SDR17 BLACK PE PIPE.

MATERIAL SPECIFICATIONS:

MANUFACTURE SMOOTH DUCT FROM 100% VIRGIN POLYETHYLENE RESIN MEETING THE REQUIREMENTS OF ASTM D 3350 WITH A MINIMUM CELL CLASS OF 344464C. THE DUCT SHALL BE BLACK IN COLOR CONTAINING ANTIOXIDANT(S) WITH A MINIMUM OXIDATION INDUCTION TIME (OIT) ACCORDING TO ASTM D 3895 OF 40 MINUTES. MANUFACTURE DUCT WITH A DIMENSION RATIO (DR) OF 17 OR LESS AS ESTABLISHED BY EITHER ASTM D 3055 BASED ON CONTROLLED OUTSIDE DIAMETER OR ASTM F 714 BASED ON OUTSIDE DIAMETER. SMOOTH DUCT SHALL HAVE A MINIMUM PRESSURE RATING (WORKING PRESSURE) OF 100 PSI.

APPROVED BY FDOT 12-12-07

DIMENSIONS: INCH [mm] mm FOR REFERENCE ONLY		QUALITY PLAN NUMBER:		WEIGHT 1.842 LBS./FT.		REV.	DATE	NAME	PART NUMBER: U00055427		
27-0.6" SMOOTH HDPE SHEATHING FOR EXTERNAL ANCHORS				MATERIAL: SEE ABOVE		SCALE 1:2				DRAWING NUMBER: U00055427	
				DATE: 10-02-07		DWG: G. MALECKI		CHK: S.N.		APP: K.S.	
THIS DRAWING, THE PERTINENT ENCLOSURES, DESCRIPTIONS, CALCULATIONS ETC. AND THEIR CONTENTS ARE THE PROPERTY OF DYWIDAG SYSTEMS INTERNATIONAL, USA, INC. THEY ARE NOT ALLOWED TO BE DUPLICATED WITHOUT OUR PERMISSION. THEY ARE ALSO NOT TO BE SHOWN OR EXPLAINED FOR ANY REASON TO A THIRD PARTY OTHER THAN FOR REASONS EXPRESSLY INTENDED BY DSI's SUBMITTAL TO THE ORIGINAL RECEIVER. THEY HAVE TO BE RETURNED UPON REQUEST.				DYWIDAG-SYSTEMS INTERNATIONAL, USA, INC. 320 MARMON DRIVE - BOLINGBROOK, IL 60440 PHONE: 630-739-1100 FAX: 630-739-1405							