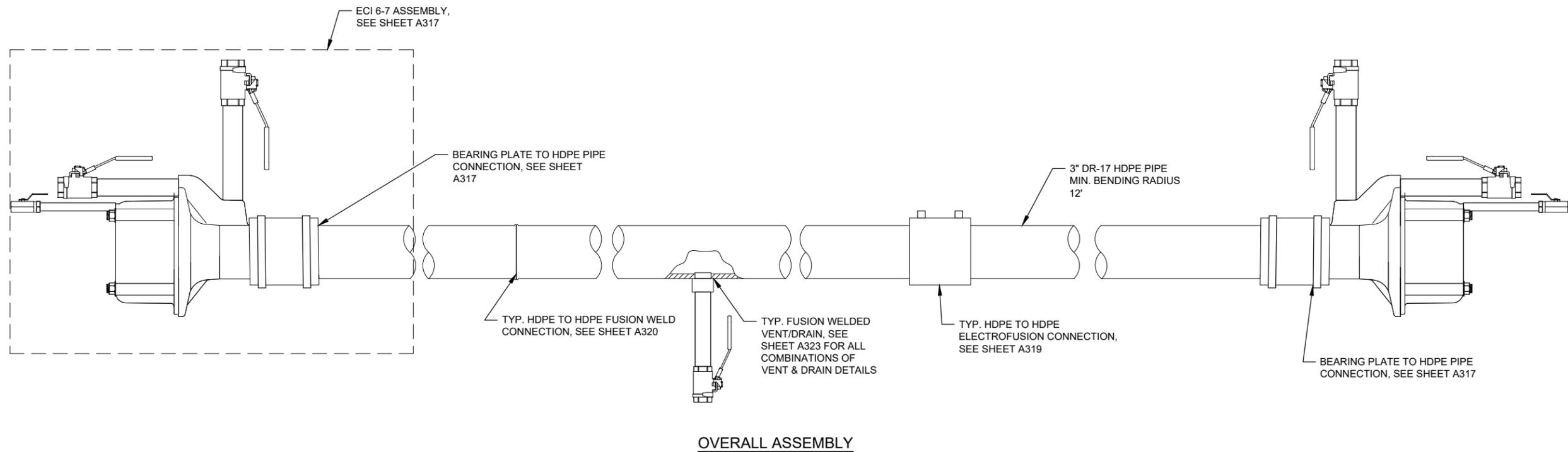


ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-7 Flexible Filler Submittal

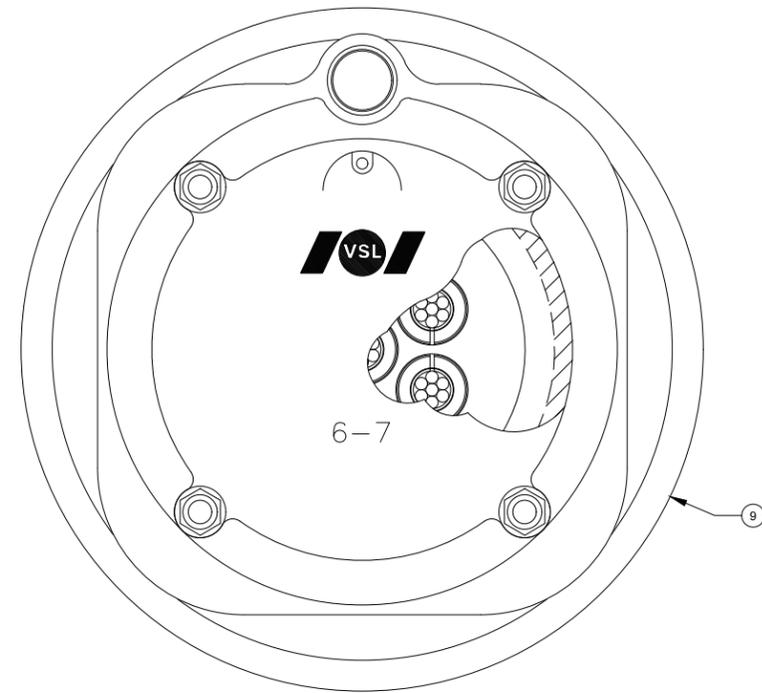


**OVERALL ASSEMBLY**

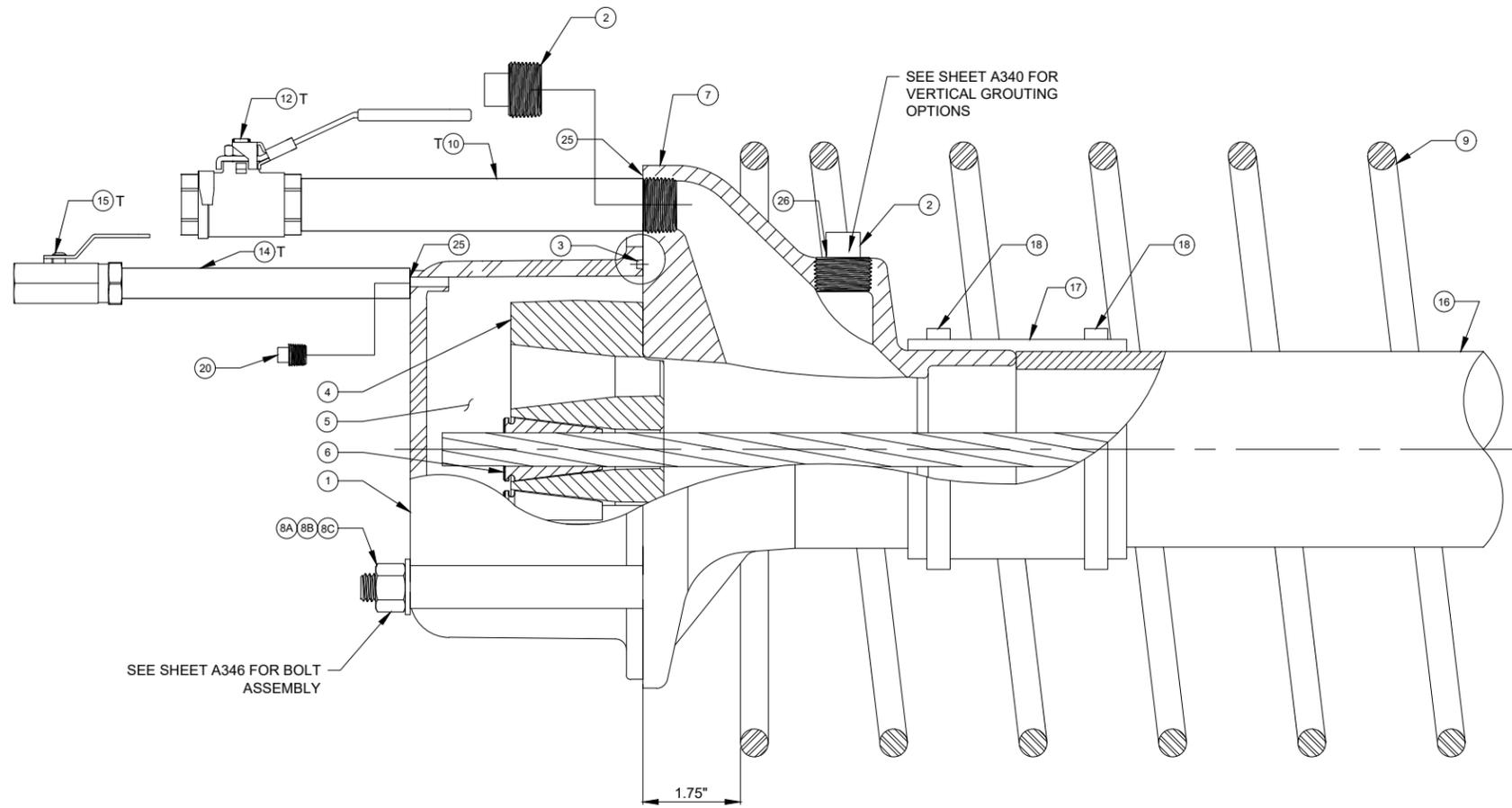
THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS STRICTLY PROHIBITED. THE MATERIAL WAS PREPARED AND TO THE MATERIAL AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	
SYSTEM DRAWING		FOR APPROVAL	
PROJECT NO:	1	CDL	ZX
SHEET NO:		BY	CHK
TITLE:		DESCRIPTION	
ECI 6-7 OVERALL ASSEMBLY WITH FLEXIBLE FILLER			
SCALE:	NTS		DATE
			26FEB2018
<p>structural TECHNOLOGIES A Structural Group Company</p> <p>Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL</p> <p>STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15000 TRINITY BLVD, SUITE 118 FORT WORTH, TX 76156</p> <p>PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET</p>			

ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-7 Flexible Filler Submittal



END VIEW



ELEVATION VIEW

NOTE: ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	6-7 ANCHORAGE CAP W/ 1/4" NPT FRONT PORT	ABS	02GC60702
2	2	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958
3	1	6-7 ANCHORAGE CAP O-RING	HNBR	02WX5013
4	1	ECI 6-7 ANCHOR HEAD	A536 GR 80-55-06	02AH0036
5	-	FLEXIBLE FILLER	FDOT APL	-
6	7	1.6G WEDGE .6 1.77 W/GROOVE	AISI 11-L-17/12-L-14	02WG0008
7	1	ECI 6-7 BEARING PLATE WITH 1" NPT PORT (GALVANIZED)	A536 GR 80-55-06	02BP0036V
8A	1 SET	1/2"-13 THREADED ROD X 5 1/2"	(316L) STAINLESS	02WX5014D
8B	1 SET	1/2"-13 NUT	(316L) STAINLESS	02WX5014D
8C	1 SET	1/2" WASHER	(316L) STAINLESS	02WX5014D
9	1	SPIRAL ECI 6-7 (#4 11" DIA., 6 1/2 TURNS, 3" PITCH, NON EPOXY COATED)	A615 GR 60	02BP0095
10	1	1" NPT STEEL NIPPLE	SCH 40 STEEL	-
12	1	1" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01926
14	1	1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-
15	1	1/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924
16	1	3" DR-17 PIPE	HDPE	-
17	1	ELASTOMER SLEEVE	COMPOSITE	02MP31106
18	2	ELASTOMER SLEEVE BAND CLAMP	316 STAINLESS STEEL	02MP50048
20	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
25	-	SILICONE GREASE	-	-
26	-	BONDUIT	-	-

INSTALLATION PROCEDURES (INSTALLATION PROCEDURE IS GENERIC. FOLLOW THE PROJECT SPECIFIC REQUIREMENTS AND THE FDOT SPECIFICATIONS)

- LIGHTLY GREASE ANCHORAGE CAP BOLTS. USE MOUNTING HOLES IN BEARING PLATE TO MOUNT BEARING PLATE ASSEMBLY TO FORM. SECURE BEARING PLATE ASSEMBLY WITH ANCHORAGE CAP BOLTS. USE CARE NOT TO DAMAGE THREADS.
- INSTALL AND SECURE SPIRAL.
- INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPE/SILICONE GREASE (BY OTHERS), AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR (BY OTHERS).
- REFER TO ELASTMERIC CONNECTION NOTES ON THIS SHEET FOR INSTALLING PIPE TO BEARING PLATE.
- SECURE DUCT SUPPORTS @ 2' MAX.
- SYSTEM IS NOW READY TO AIR TEST.
- AFTER CONCRETE PLACEMENT PER THE FDOT SPECIFICATION SECTION 462-8.2.2, A SECOND AIR PRESSURE TEST IS REQUIRED AFTER CONCRETE PLACEMENT AND PRIOR TO STRAND INSTALLATION.
- INSTALL STRAND. LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.
- INSTALL ANCHOR HEAD. MAKE SURE WEDGE CAVITIES ARE CLEAN AND RUST FREE. USE WIRE BRUSH TO CLEAN IF NECESSARY.
- ONLY STRESS STRANDS IF CONCRETE HAS REACHED REQUIRED STRENGTH SPECIFIED ON DRAWINGS.
- ELONGATION SHOULD BE WITHIN ±7%.
- AFTER ENGINEERS APPROVAL, STRAND TAILS MAY BE CUT.
- AFTER FORM WORK IS REMOVED, USE MOUNTING BOLTS TO INSTALL ANCHORAGE CAP. REINSTALL O-RING INTO ANCHORAGE CAP.
- WAX TENDON PER WAX SPEC.

- ELASTOMERIC CONNECTION NOTES:
- ROUGHEN 3" MIN. END OF HDPE PIPE WITH COARSE SANDPAPER
  - INSTALL 6" ELASTOMER SLEEVE
  - INSTALL 2 SS BAND CLAMPS
  - CENTER ELASTOMER SLEEVE OVER THE JOINT
  - APPLY 120 LBS SEATING FORCE PER BAND CLAMP
  - ELASTOMER SLEEVE HAS NO IDENTIFYING TEXT OR MARKINGS, ELASTOMER IS BLACK IN COLOR

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**structural TECHNOLOGIES**  
A Structural Group Company  
Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15600 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156

PHONE: (817) 545-4877  
FAX: (817) 545-4827  
WWW.VSL.NET

PROJECT INFORMATION:  
SYSTEM DRAWING

PROJECT NO: --  
SHEET NO:

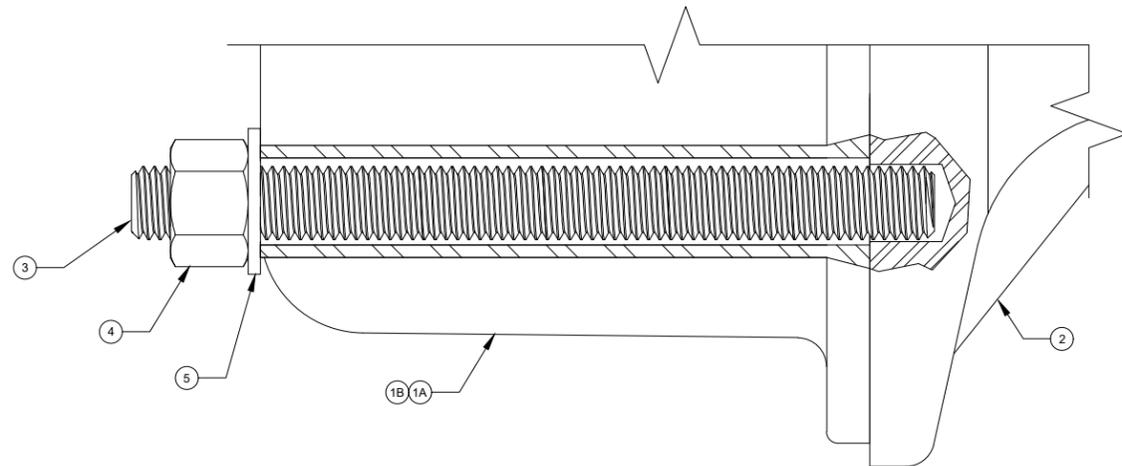
TITLE:  
ECI 6-7 ASSEMBLY WITH FLEXIBLE FILLER

SCALE:  
NTS

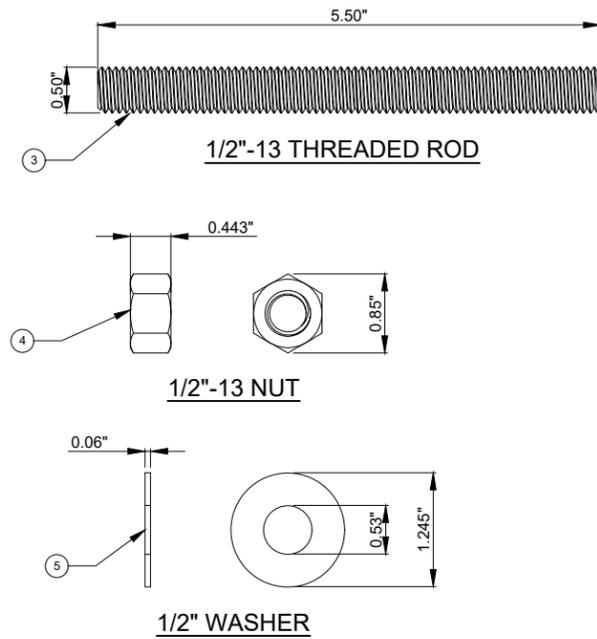
A317

FOR APPROVAL	NO	DESCRIPTION	BY	DATE
CDL	ZX	CHK	26FEB2018	

ELECTRONIC FILE LOCATION: \\VSL-System-Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-7 Flexible Filler Submittal



**CAP TO BEARING PLATE BOLTED ASSEMBLY**



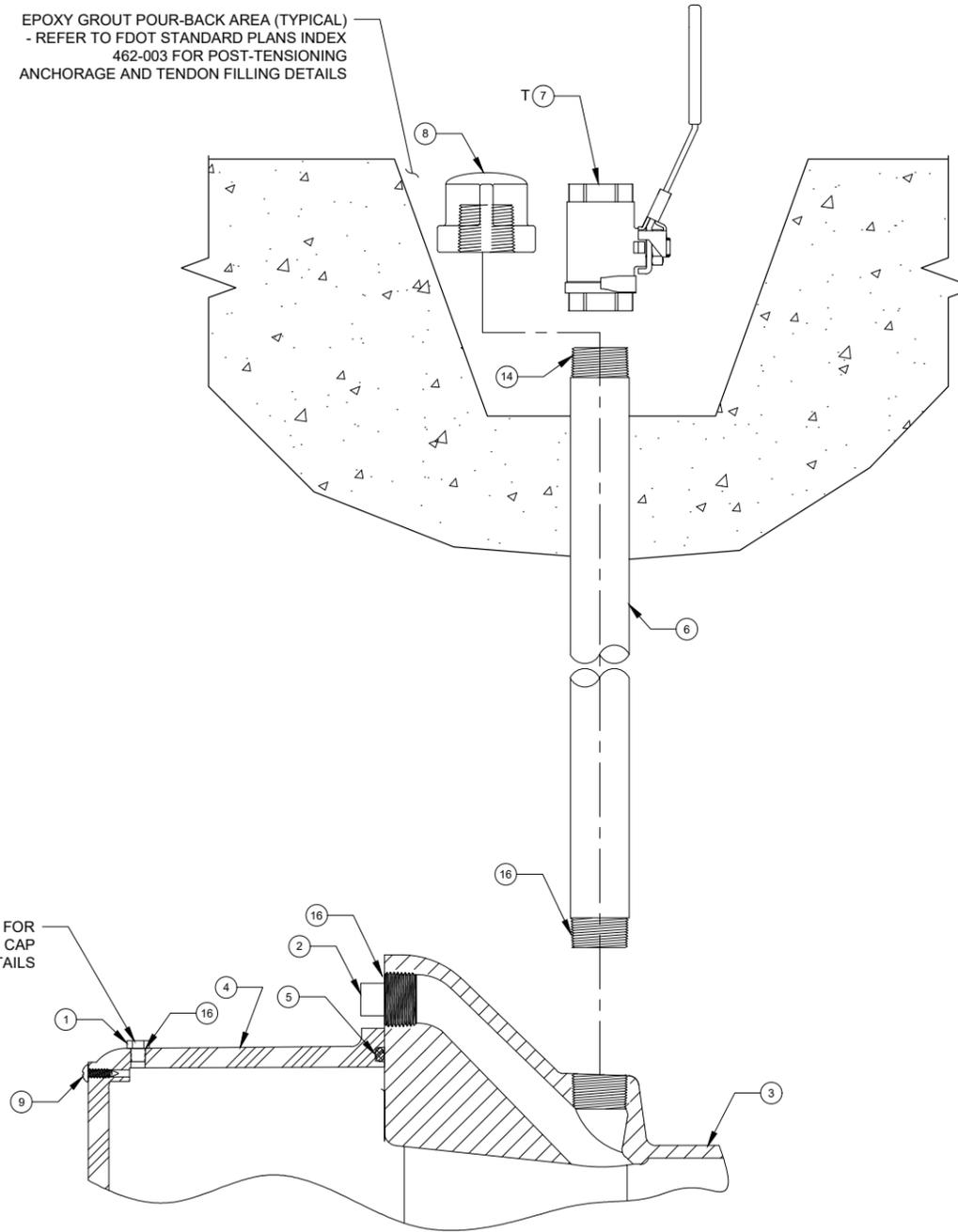
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1A	1	6-7 ANCHORAGE CAP W/ 1/4" NPT FRONT PORT	ABS	02GC60702
1B	1	6-7 ANCHORAGE CAP W/ 1/4" NPT TOP PORT	ABS	02GC60703
2	1	ECI 6-7 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR 80-55-06	02BP0036V
3	1 SET	1/2"-13 THREADED ROD X 5 1/2"	(316L) STAINLESS	02WX5014D
4	1 SET	1/2"-13 NUT	(316L) STAINLESS	02WX5014D
5	1 SET	1/2" WASHER	(316L) STAINLESS	02WX5014D

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<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p>		<p>TITLE:</p> <p><b>ECI 6-7 BOLT ASSEMBLY</b></p>	
<p>PROJECT NO:</p> <p>---</p>	<p>SCALE:</p> <p>NTS</p>	<p>FOR APPROVAL</p> <p>NO</p>	<p>CDL</p> <p>ZX</p> <p>26FEB2018</p>
<p>SHEET NO:</p> <p><b>A346</b></p>	<p>DESCRIPTION</p>	<p>BY</p> <p>CHK</p>	<p>DATE</p>

ELECTRONIC FILE LOCATION: \\VSL\System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-7 Flexible Filler Submittal

EPOXY GROUT POUR-BACK AREA (TYPICAL)  
- REFER TO FDOT STANDARD PLANS INDEX  
462-003 FOR POST-TENSIONING  
ANCHORAGE AND TENDON FILLING DETAILS



SEE SHEET A335 FOR  
ANCHORAGE CAP  
VENTING DETAILS

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
2	1	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958
3	1	ECI 6-7 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR80-55-06	02BP0036V
4	1	6-7 ANCHORAGE CAP W/ 1/4" TOP PORT	ABS	02GC60703
5	1	6-7 ANCHORAGE CAP O-RING	HNBR	02WX5013
6	1	1" NPT NIPPLE	SCH 40 STEEL	-
7	1	1" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01926
8	1	1" NPT STEEL CAP	SCH 40 STEEL	02DT01951
9	1	3/16" PAN HEAD SCREW	316 STAINLESS STEEL	02WX1070
14	-	SILICONE GREASE	-	-
16	-	BONDUIT	-	-

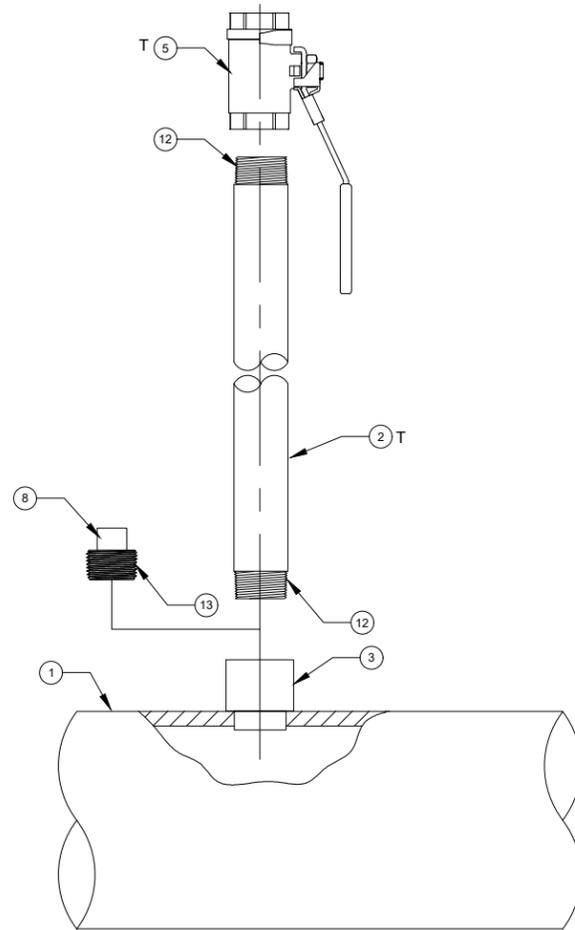
**NOTES:**

1. ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.
2. ALL COMPONENTS MUST BE PRESSURE RATED FOR 150 PSI
3. CONCRETE COVER MUST MEET FDOT STRUCTURES DESIGN GUIDELINES SECTION 1.4.2

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

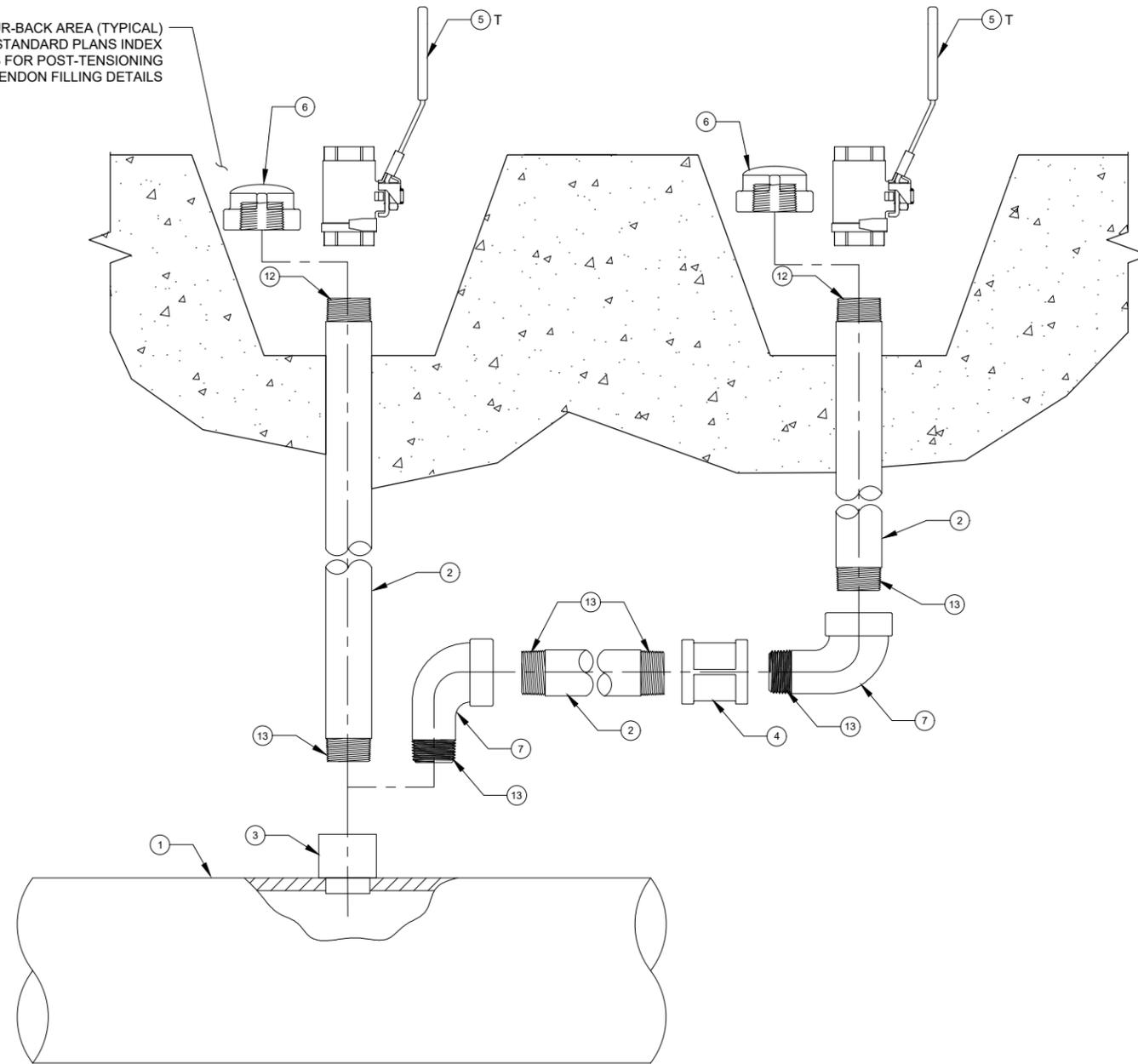
PROJECT INFORMATION:	SYSTEM DRAWING	ECI 6-7 VERTICAL INJECTION OPTIONS		TITLE:	SCALE:
PROJECT NO:	--	SCALE:	NTS		
SHEET NO:					<b>A340</b>
<p><b>structural TECHNOLOGIES</b> A Structural Group Company</p> <p>Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL</p> <p>STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15600 TRINITY BLVD, SUITE 118 FORT WORTH, TX 76156</p> <p>PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET</p>		<p>FOR APPROVAL</p> <p>NO</p>		<p>BY</p> <p>CDL</p>	<p>CHK</p> <p>ZX</p>
		DESCRIPTION		DATE	DATE
				26FEB2018	DATE

ELECTRONIC FILE LOCATION: \\VSL\System Drawings\Work in Progress Drawings\Florida DOT Test 2017\EC16-7 Flexible Filler Submittal



**EXTERNAL OPTION**

EPOXY GROUT POUR-BACK AREA (TYPICAL)  
- REFER TO FDOT STANDARD PLANS INDEX  
462-003 FOR POST-TENSIONING  
ANCHORAGE AND TENDON FILLING DETAILS



**INTERNAL OPTION**

**3/4" FNPT SMOOTH GROUT PORT INSTALLATION**

1. CLEAN PIPE PRIOR TO GROUT PORT INSTALLATION.
2. DRILL Ø7/8" HOLE INTO PIPE.
3. CONNECT THE SOCKET WELDING DEVICE TO THE POWER SOURCE.
4. ALLOW THE SOCKET WELDING DEVICE TO REACH ITS WORKING TEMPERATURE.
5. SIMULTANEOUSLY, INSERT MALE ADAPTER OF SOCKET WELDING DEVICE FROM DRILLED HOLE AND GROUT PORT FROM FEMALE ADAPTER.
6. APPLY LIGHT PRESSURE FOR 20-25 SECONDS BY PUSHING THE GROUT PORT WITH THE PALM OF HAND.
7. SIMULTANEOUSLY, REMOVE SOCKET WELDING DEVICE FROM DRILLED HOLE AND GROUT PORT FROM FEMALE ADAPTER.
8. INSERT GROUT PORT INTO HOLE UNTIL THE SHOULDER IS REACHED.
9. THIS OPERATION SHOULD BE CARRIED OUT AS QUICKLY AND CAREFULLY AS POSSIBLE, WITHIN 5 SECONDS. FIRMLY HOLD THE PIECES TOGETHER FOR A MINIMUM OF 10 SECONDS.

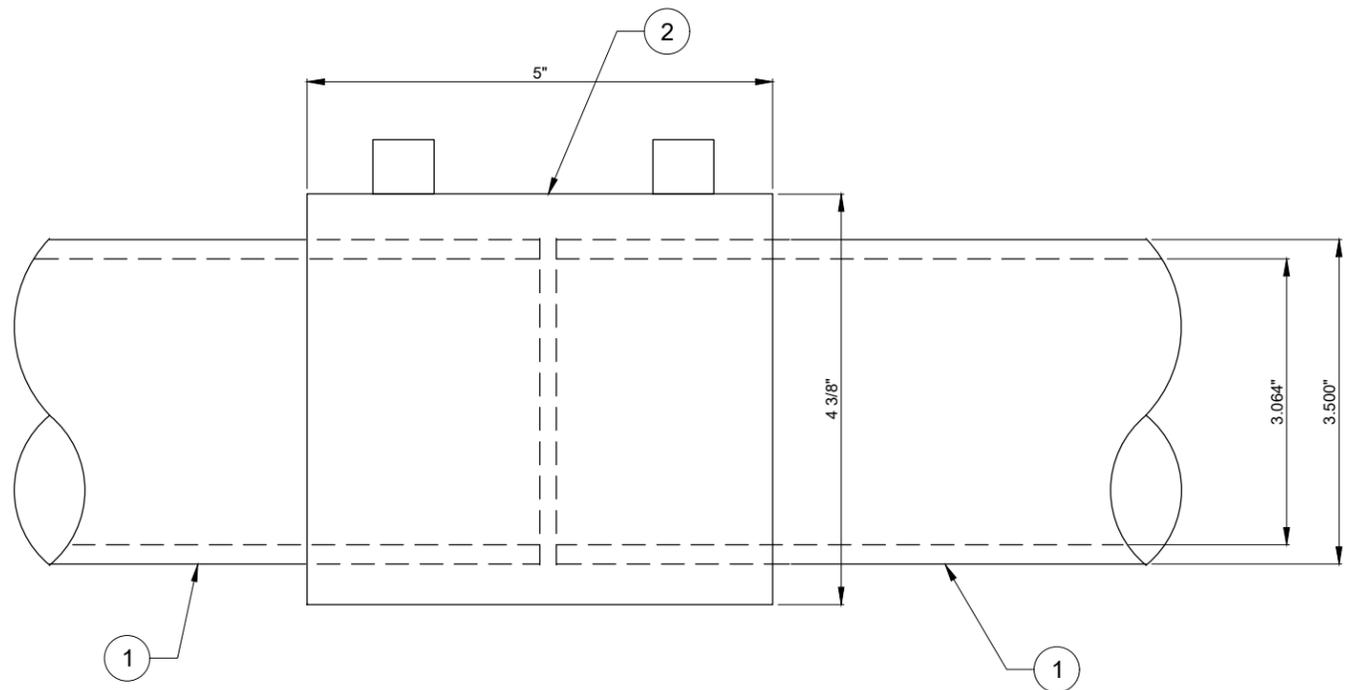
**NOTES**

1. ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.
2. THIS ASSEMBLY CAN BE APPLIED IN ANY REQUIRED ORIENTATION TO CREATE EITHER A VENT OR A DRAIN.
3. ALL COMPONENTS MUST BE PRESSURE RATED FOR 150 PSI.
4. CONCRETE COVER MUST MEET FDOT STRUCTURES DESIGN GUIDELINES SECTION 1.4.2

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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	-	3" DR-17 PIPE	HDPE	-
2	1	3/4" NPT STEEL NIPPLE	SCH 40 STEEL	-
3	1	3/4" FNPT SMOOTH GROUT PORT	POLYETHYLENE	02DT0253
4	1	3/4" NPT F/F COUPLER	SCH 40 STEEL	02DT01952
5	1	3/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01925
6	1	3/4" NPT STEEL CAP	SCH 40 STEEL	02DT01950
7	2	3/4" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01954
8	1	3/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01957
12	-	SILICONE GREASE	-	-
13	-	BONDUIT	-	-

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PROJECT INFORMATION:					
SYSTEM DRAWING					
PROJECT NO: --				SCALE: NTS	
SHEET NO: --				A323	
			FOR APPROVAL	NO	DESCRIPTION
			CDL	BY	CHK
			ZK	26FEB2018	DATE



ITEM	QTY	DESCRIPTION	MATERIAL
1	-	3" HDPE PIPE DR-17	ASTM D3035
2	1	3" ELECTROFUSION COUPLER	COMPOSITE

NOTE:  
FOLLOW COUPLER MANUFACTURER'S  
INSTALLATION INSTRUCTIONS

INSTALLATION PROCEDURE (SEE MANUFACTURER INSTRUCTION MANUAL FOR DETAILED  
INSTALLATION INSTRUCTIONS):

- CUT SQUARE ENDS ON PIPE TO BE FUSED
- CLEAN BOTH PIPE ENDS
- SCRAPE BOTH PIPES MINIMUM 0.07" WITH PROVIDED SCRAPING TOOL
- CLEAN BOTH PIPE ENDS USING 90% OR GREATER ISOPROPYL ALCOHOL
- USE REROUNDING TOOLS PROVIDED TO CORRECT OVAL PIPE IF NECESSARY
- USE ALIGNMENT CLAMPS PROVIDED TO ENSURE PIPE IS ALIGNED WITH COUPLER
- SUPPORT PIPE AND COUPLER AND RESTRAIN PIPE TO PREVENT MOVEMENT
- CHECK FOR GAPS AND ELIMINATE AS NECESSARY
- ATTACH LEADS OF THE PROVIDED FUSION PROCESSOR TO THE COUPLER
- SCAN THE BARCODE ON THE COUPLER
- START FUSION PROCESS
- WHEN FUSION PROCESS IS COMPLETE, UNPLUG THE LEADS
- DO NOT MOVE OR PRESSURIZE THE JOINT COMPONENTS BEFORE COOLING TIME HAS COMPLETED

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**structural TECHNOLOGIES**  
A Structural Group Company  
Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

PHONE: (817) 545-4877  
FAX: (817) 545-4827  
WWW.VSL.NET

STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15000 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76155

PROJECT INFORMATION:  
PROJECT NO: SYSTEM  
SHEET NO: A319

TITLE:  
3" HDPE PIPE TO 3" HDPE PIPE  
ELECTROFUSION COUPLER CONNECTION

SCALE:  
NTS

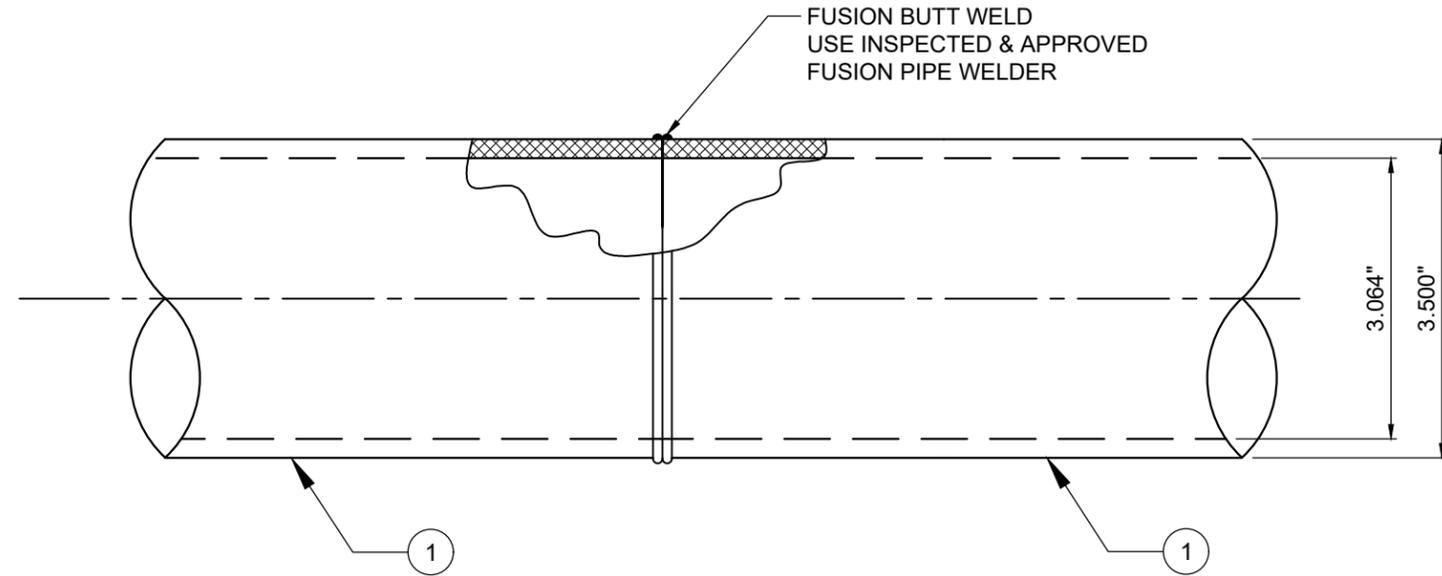
FOR APPROVAL

NO

DESCRIPTION

BY CDL  
CHK ZX  
DATE 26FEB2018

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**ELEVATION VIEW**

ITEM	QTY	DESCRIPTION	MATERIAL
1	2	3" HDPE PIPE DR-17	ASTM D3035

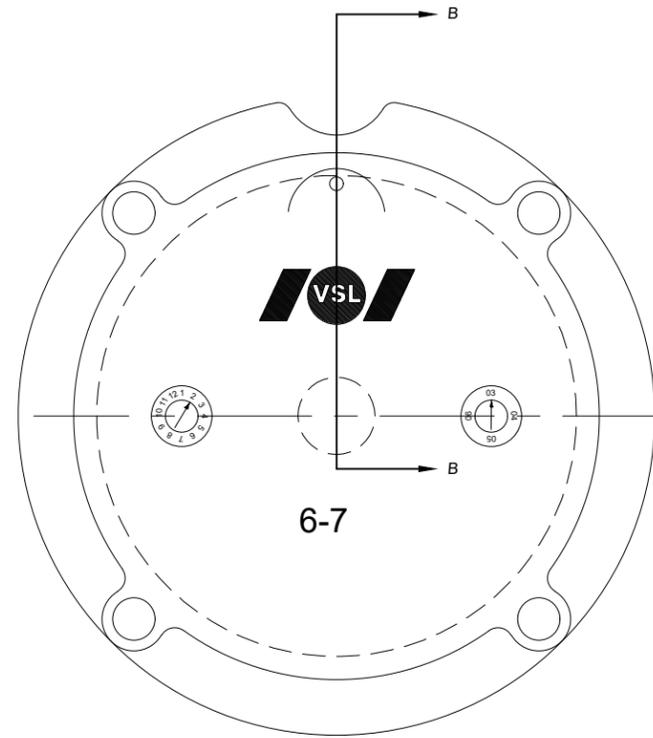
- NOTES:
1. HDPE 3" IPS/DR-17 MEETS FDOT 960 SPEC.
  2. SEE VSL BUTT-WELDING PROCEDURE IN APPENDIX

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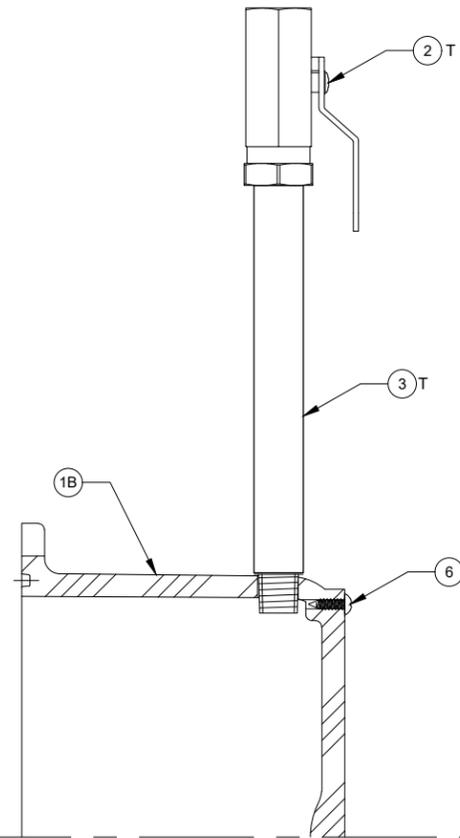
<p><b>structural TECHNOLOGIES</b> A Structural Group Company</p> <p>Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL</p> <p>STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15600 TRINITY BLVD., SUITE 118 FORT WORTH, TX 76156</p> <p>PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET</p>		<p>PROJECT INFORMATION:</p> <p><b>SYSTEM DRAWING</b></p> <p>TITLE: <b>TYPICAL 3" HDPE PIPE TO 3" HDPE PIPE FUSION WELDED CONNECTION</b></p> <p>SCALE: NTS</p> <p>SHEET NO: <b>A320</b></p>	
<p>APPROVED FOR CONSTRUCTION</p> <p>NO</p>		<p>CDL ZX</p> <p>BY CHK</p> <p>DATE</p> <p>26FEB2018</p>	
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ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-7 Flexible Filler Submittal

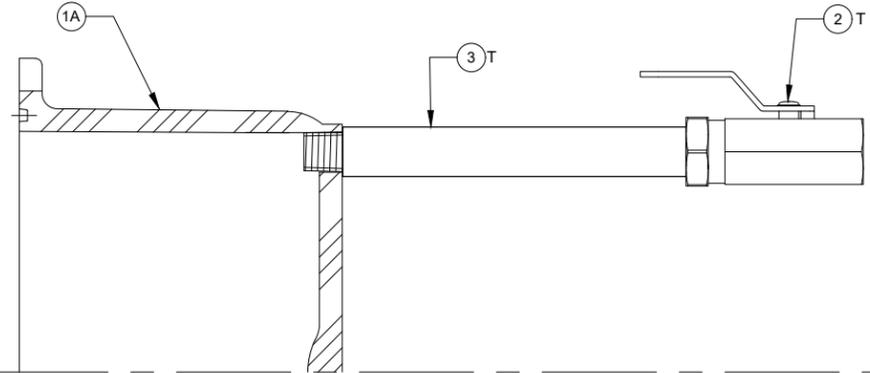
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY NUMBER
6	1	3/16" PAN HEAD SCREW	316 STAINLESS STEEL	02WX1070
4	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
3	1	1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-
2	1	1/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924
1B	1	6-7 ANCHORAGE CAP W/ 1/4" NPT TOP PORT	ABS	02GC60703
1A	1	6-7 ANCHORAGE CAP W/ 1/4" NPT FRONT PORT	ABS	02GC60702



6-7 ANCHORAGE CAP

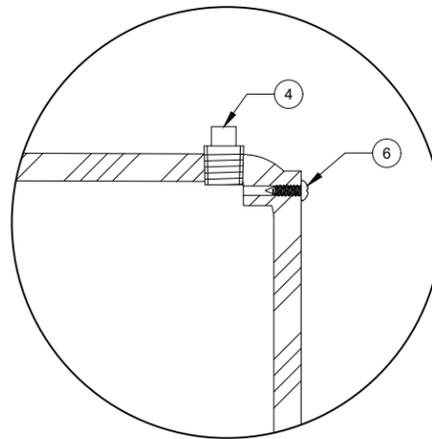


TOP PORT

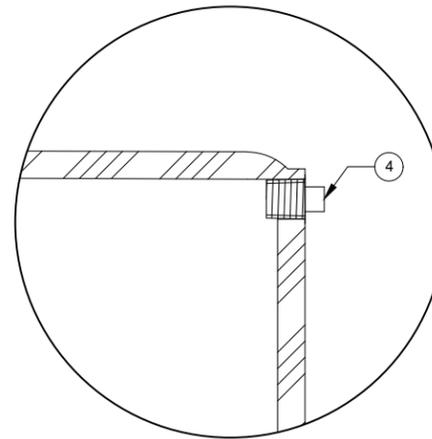


FRONT PORT

NOTE: ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.



AFTER WAX



AFTER WAX

ITEM	DESCRIPTION	MATERIAL	INVENTORY #
6	3/16" PAN HEAD SCREW	316 STAINLESS STEEL	02WX1070

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DALLAS OFFICE  
15600 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156

PHONE: (817) 545-4877  
FAX: (817) 545-4827  
WWW.VSL.NET

PROJECT INFORMATION:  
SYSTEM DRAWING  
ECI 6-7 ANCHORAGE CAP VENT DETAIL

PROJECT NO: SYSTEM  
SCALE: NTS

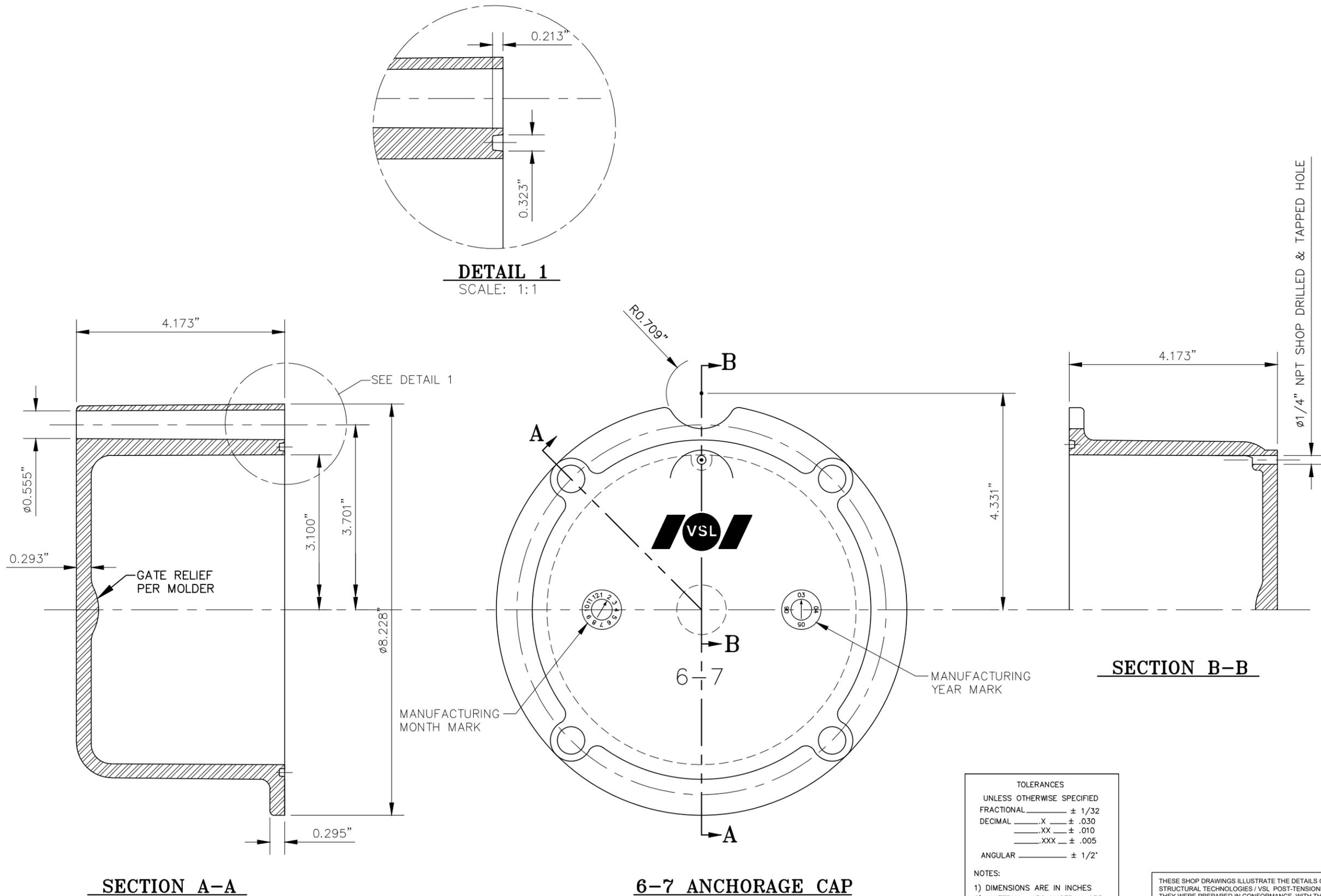
SHEET NO: A335

TITLE BLOCK UPDATED: 26FEB2018  
VENT DETAILS: 02JUL2012  
3/4" GROUT PORTS: 18MAY2012

CDL ZX  
DTS DD  
DTS DD

BY CHK  
DESCRIPTION

ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-7 Flexible Filler Submittal



**DETAIL 1**  
SCALE: 1:1

**SECTION A-A**

**6-7 ANCHORAGE CAP**

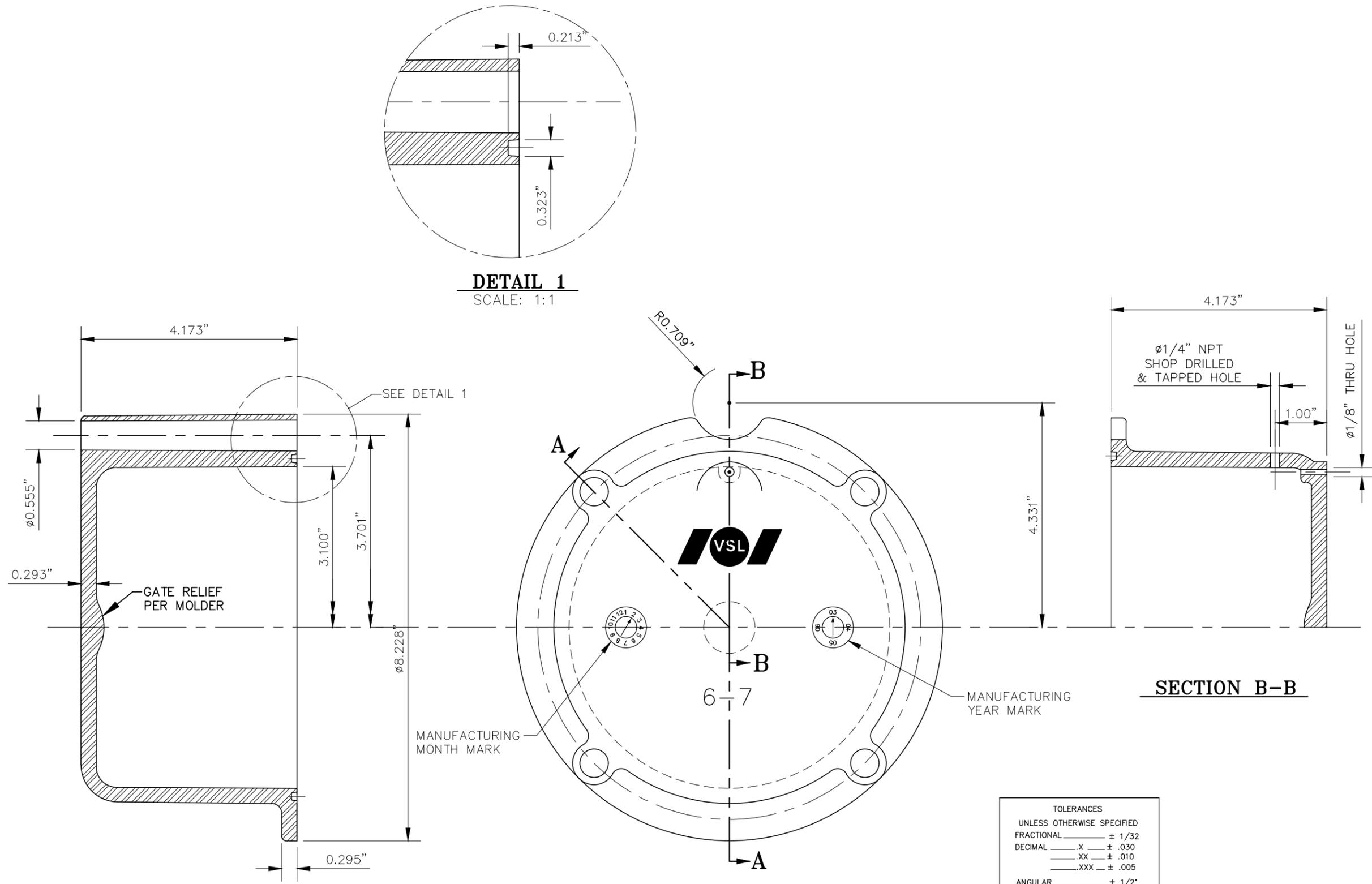
**SECTION B-B**

**TOLERANCES**  
UNLESS OTHERWISE SPECIFIED  
FRACTIONAL \_\_\_\_\_ ± 1/32  
DECIMAL \_\_\_\_X \_\_\_\_ ± .030  
\_\_\_\_.XX \_\_\_\_ ± .010  
\_\_\_\_.XXX \_\_\_\_ ± .005  
ANGULAR \_\_\_\_\_ ± 1/2°

**NOTES:**  
1) DIMENSIONS ARE IN INCHES  
2) MATERIAL: ABS LUSTRAN 633  
3) INVENTORY #: 02GC6702

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PROJECT INFORMATION:		CDL	ZX	26FEB2018
SYSTEM DRAWING		GB	MM	01OCT2010
6-7 ANCHORAGE CAP W/ 1/4" NPT FRONT PORT		LS	ZX	29JAN2004
TITLE: 6-7 ANCHORAGE CAP W/ 1/4" NPT FRONT PORT		LS	LS	19JAN2004
PROJECT NO: SYSTEM	SCALE: NTS	BY	CHK	DATE
SHEET NO: C547				
TITLE BLOCK UPDATED				
GATE RELIEF ADDED				
ISSUED FOR PRODUCTION				
ADD MANUFACTURING DATE MARKS				
DESCRIPTION				
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**DETAIL 1**  
SCALE: 1:1

**SECTION A-A**

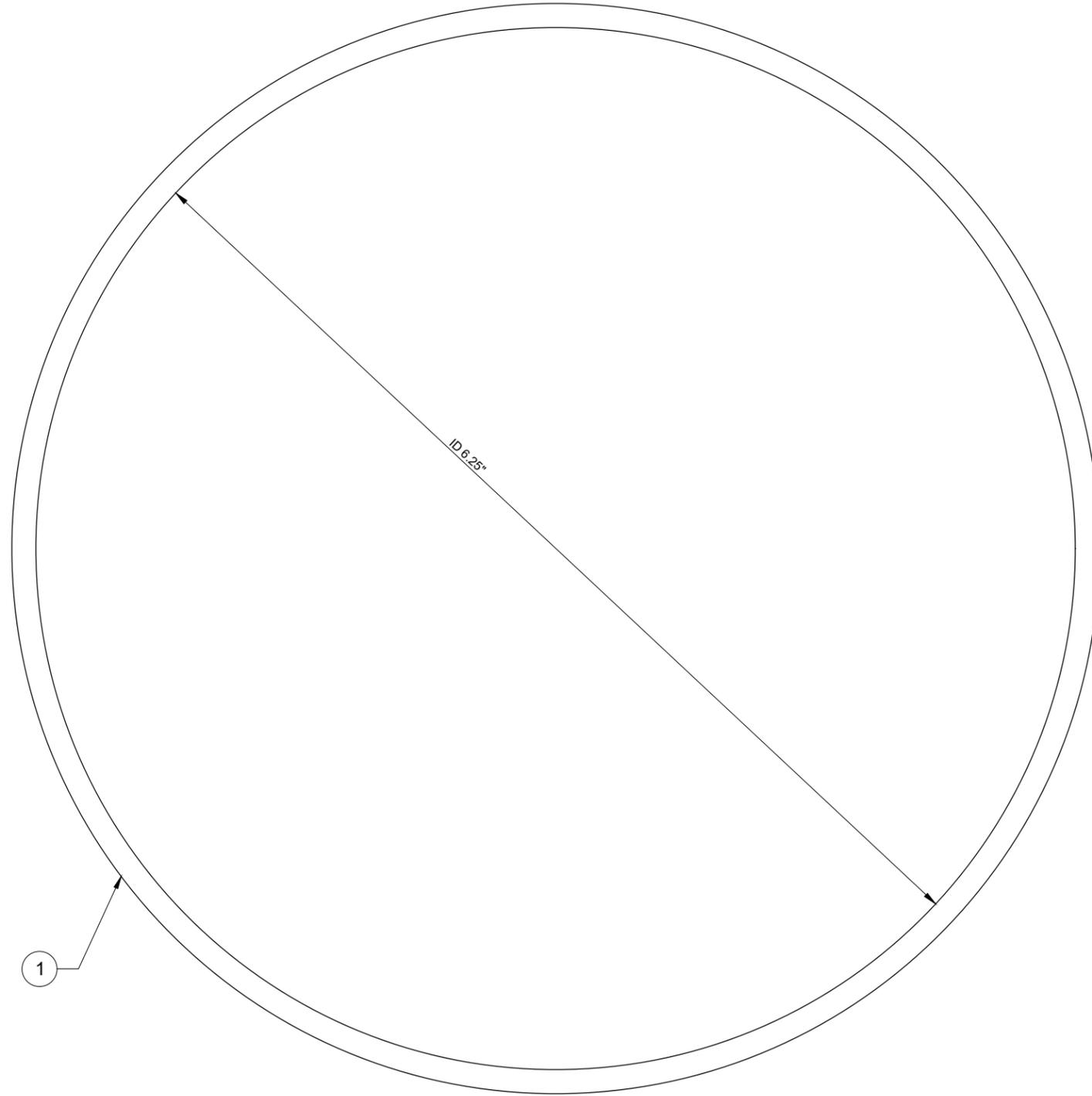
**SECTION B-B**

**TOLERANCES**  
UNLESS OTHERWISE SPECIFIED  
FRACTIONAL \_\_\_\_\_ ± 1/32  
DECIMAL \_\_\_\_X \_\_\_\_ ± .030  
      \_\_\_\_XX \_\_\_\_ ± .010  
      \_\_\_\_XXX \_\_\_\_ ± .005  
ANGULAR \_\_\_\_\_ ± 1/2°

**NOTES:**  
1) DIMENSIONS ARE IN INCHES  
2) MATERIAL: ABS LUSTRAN 633  
3) INVENTORY #: 02GC60703

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PROJECT INFORMATION:		APPROVED FOR FABRICATION		DATE
SYSTEM DRAWING		CDL	ZX	26FEB2018
6-7 ANCHORAGE CAP W/ 1/4" TOP PORT		BY	CHK	
TITLE:		DESCRIPTION		
PROJECT NO:	SYSTEM	NO		
SCALE:	NTS			
SHEET NO:	C734			
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ITEM	QTY	DESCRIPTION	MATERIAL	SIZE	INVENTORY#
1	-	6-7 ANCHORAGE CAP O-RING	HNBR	6.25"x6.50"x0.125"	02WX5013

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**PROJECT INFORMATION:**

PROJECT NO: SYSTEM  
SHEET NO: C717

**SYSTEM DRAWING**

**6-7 ANCHORAGE CAP O-RING**

TITLE: 6-7 ANCHORAGE CAP O-RING  
SCALE: NTS

FOR APPROVAL

NO

CDL ZCX  
BY CHK  
DATE 26FEB2018

DESCRIPTION

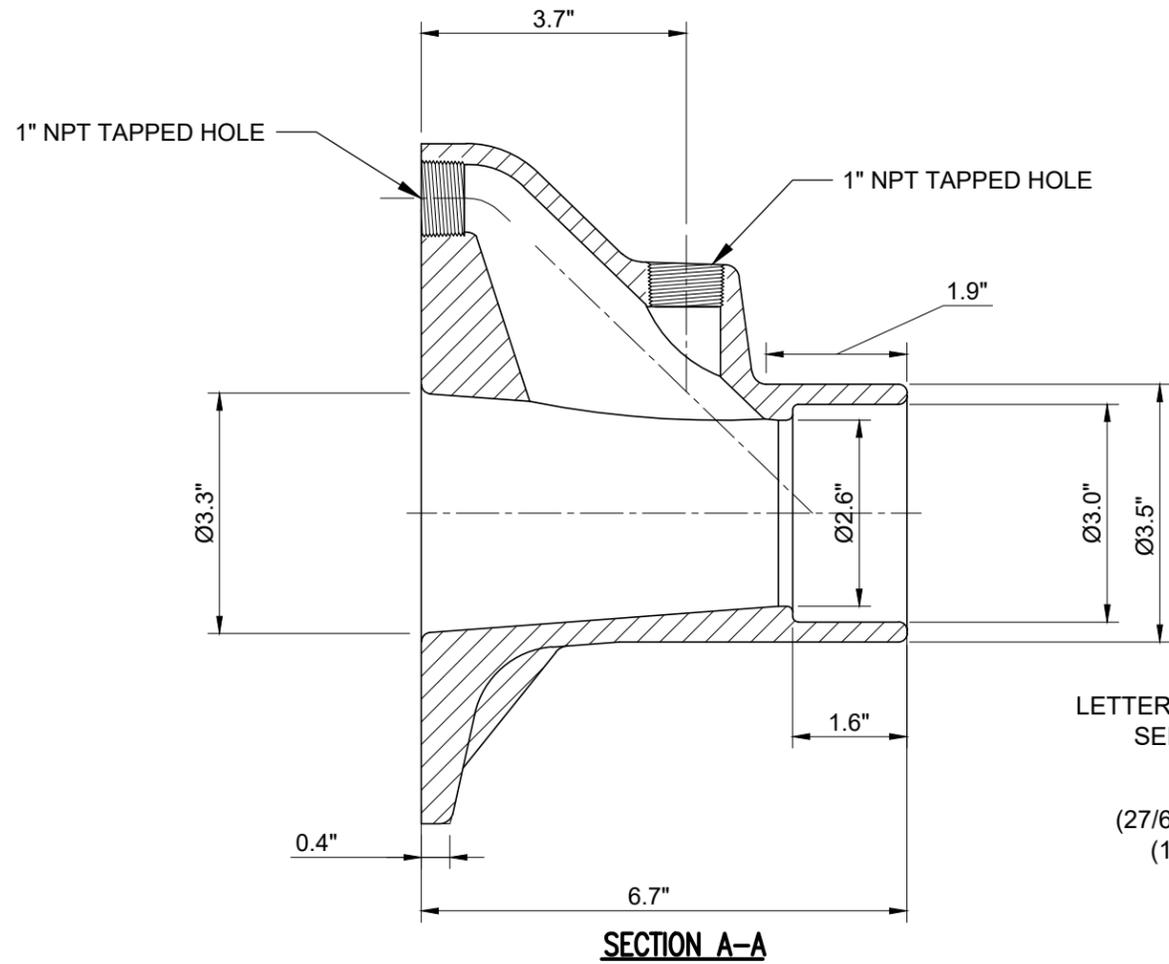
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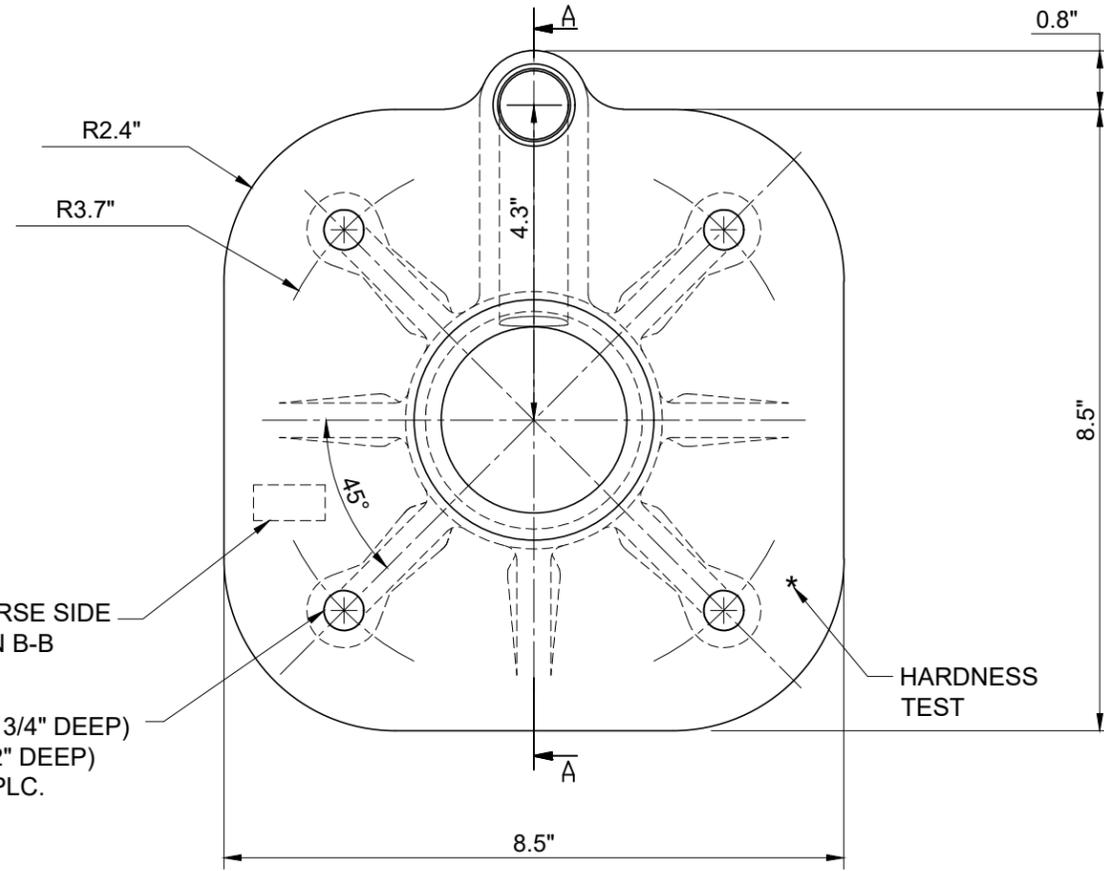
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FORT WORTH, TX 76156

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ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-7 Flexible Filler Submittal



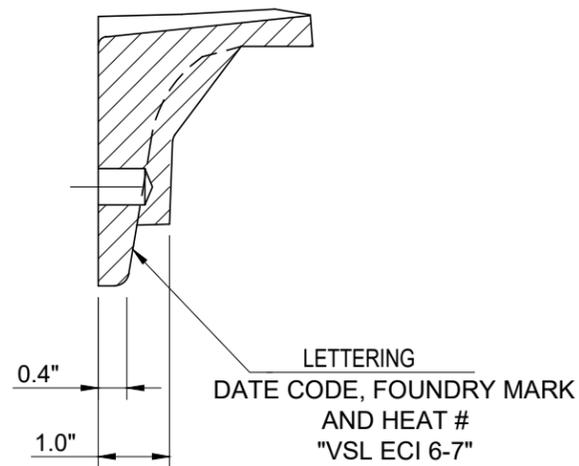
**SECTION A-A**



LETTERING REVERSE SIDE  
SEE SECTION B-B

(27/64" DRILL x 3/4" DEEP)  
(1/2"-13 x 1/2" DEEP)  
TYP. 4 PLC.

HARDNESS  
TEST



**SECTION B-B**

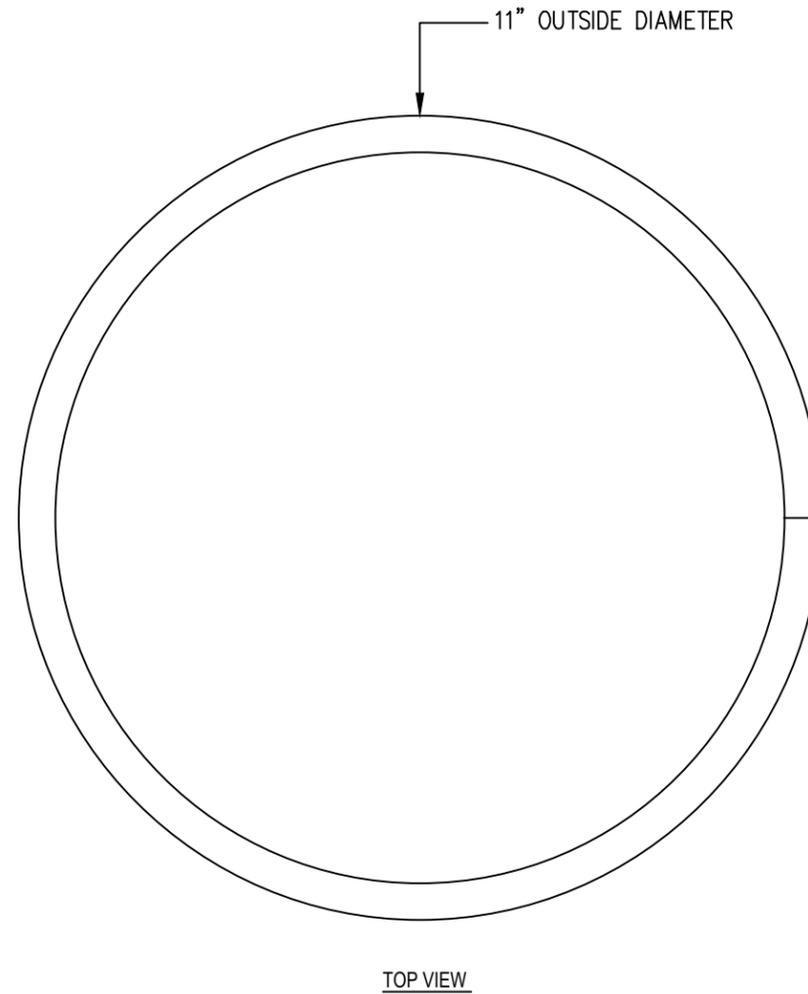
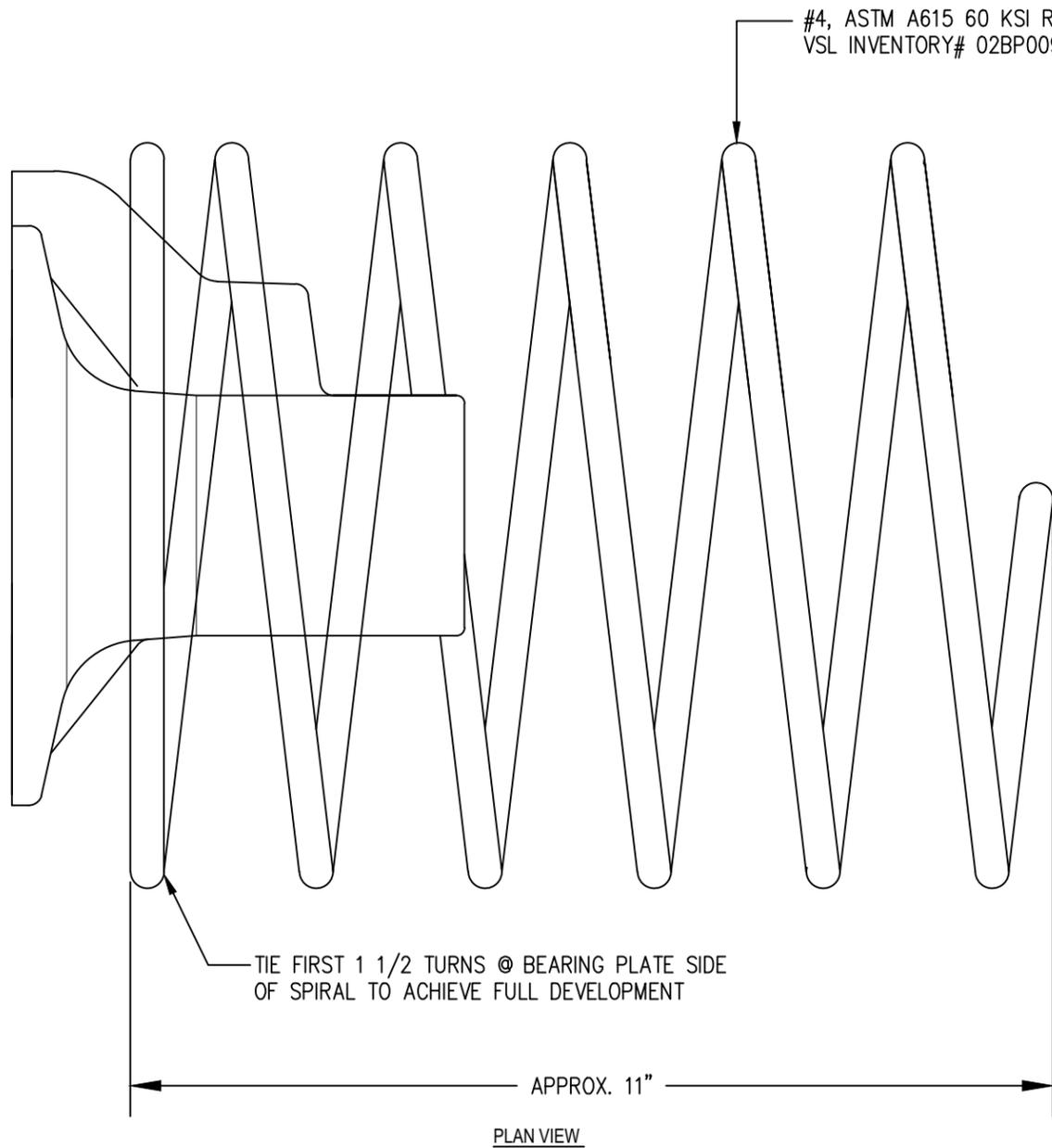
**GENERAL NOTES**

1) MATERIAL: ASTM A536 GR 80-55-06

**INVENTORY No. 02BP0036V (GALVANIZED)**

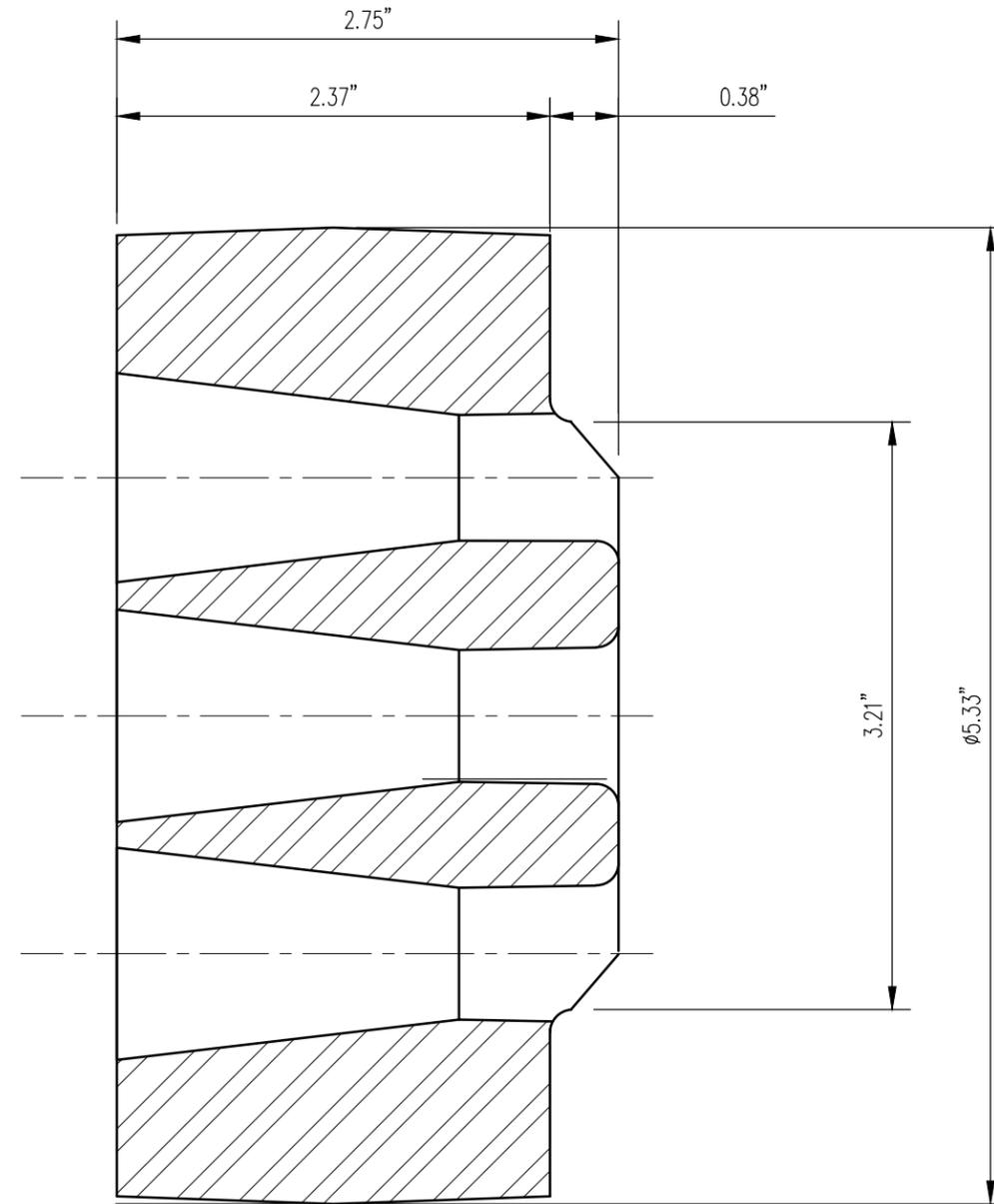
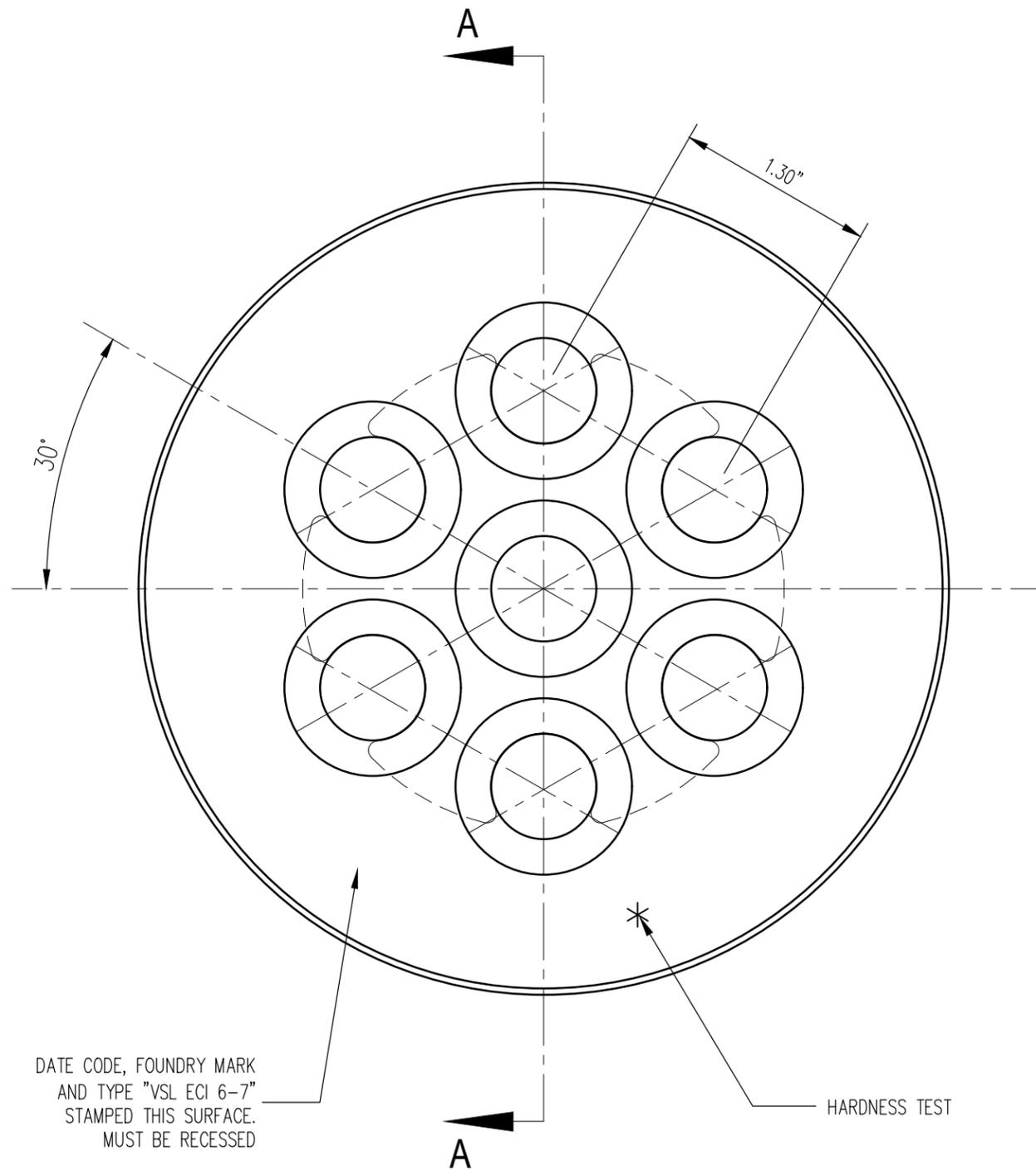
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PROJECT INFORMATION:		ISSUED FOR PRODUCTION		CDL	ZX	26FEB2018
SYSTEM DRAWING		DESCRIPTION		BY	CHK	DATE
ECI 6-7 BEARING PLATE W/ 1" NPT PORT		NO				
TITLE:		NO				
PROJECT NO: SYSTEM		NO				
SCALE: NTS		NO				
SHEET NO: C736		NO				
<p>STRUCTURAL TECHNOLOGIES A Structural Group Company</p> <p>Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL</p> <p>PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET</p>		<p>THIS DOCUMENT, INCLUDING ANY DRAWINGS, SPECIFICATIONS, AND CALCULATIONS HEREIN, IS THE PROPERTY OF STRUCTURAL TECHNOLOGIES / VSL. THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND MAY NOT BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE PRIOR WRITTEN CONSENT OF STRUCTURAL TECHNOLOGIES / VSL. FURTHER, THE USE OF THIS DOCUMENT OR ANY INFORMATION HEREIN FOR ANY OTHER PROJECT OR PURPOSE IS STRICTLY PROHIBITED. STRUCTURAL TECHNOLOGIES / VSL ACCEPTS NO LIABILITY FOR ANY UNAUTHORIZED UNINTENDED OR OTHER IMPERMISSIBLE USE OF THIS DOCUMENT OR ANY INFORMATION IT CONTAINS.</p>				



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PROJECT NO:	SYSTEM	ISSUED FOR CONSTRUCTION	NO
SHEET NO:	C713	DESCRIPTION	NO
TITLE:		BY	CHK
SCALE:		CDL	ZX
SYSTEM DRAWING			26FEB2018
ECI 6-7 SPIRAL			DATE



**SECTION A-A**

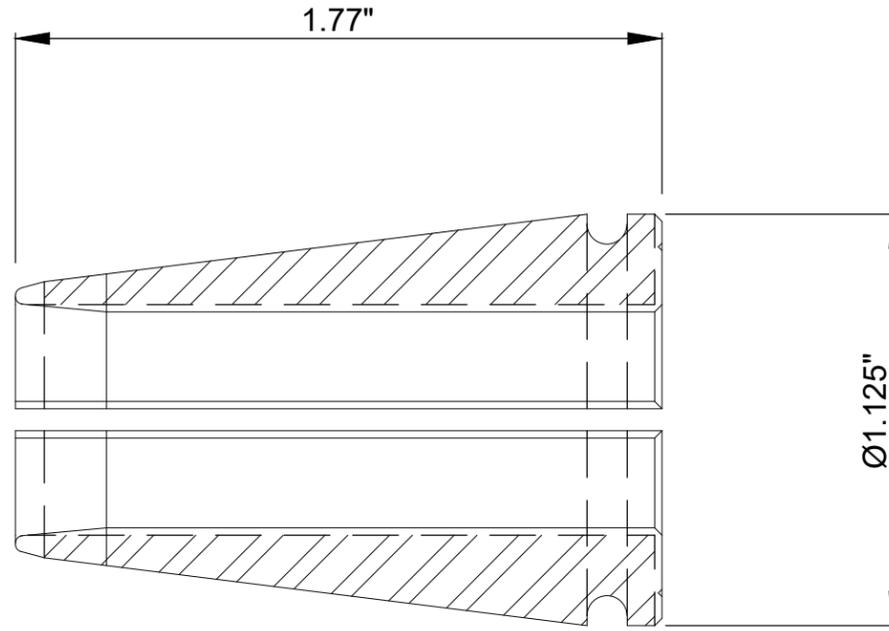
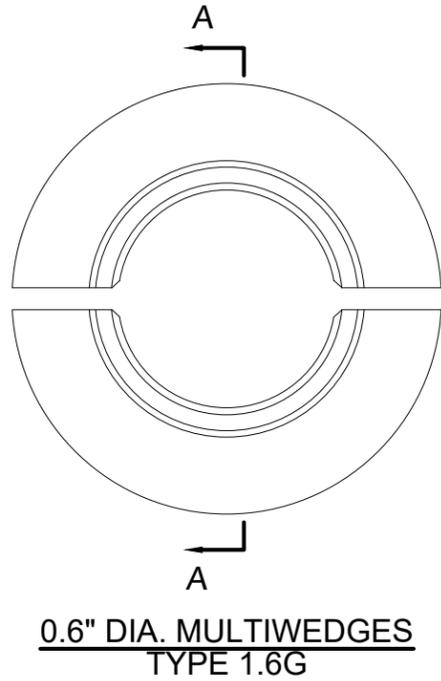
**ANCHORHEAD ECI 6-7**

**GENERAL NOTES**

- 1) MATERIAL: ASTM A536 GR 80-55-06
  - 2) WEIGHT: 11.2 LBS
- INVENTORY No. 02AH0036**

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PROJECT INFORMATION:		TITLE BLOCK UPDATED		CDL	ZX	26FEB2018
SYSTEM DRAWING		(UPDATED INFO.) ISSUED FOR PRODUCTION		JOB	ZX	10APR2012
PROJECT NO: SYSTEM		(UPDATED INFO.) ISSUED FOR PRODUCTION		GDH	ZX	21MAR2012
SHEET NO: C555		ISSUED FOR PRODUCTION		GDH	ZX	17JUN2003
TITLE: ECI 6-7 ANCHOR HEAD		DESCRIPTION		BY	CHK	DATE
SCALE: NTS		NO				
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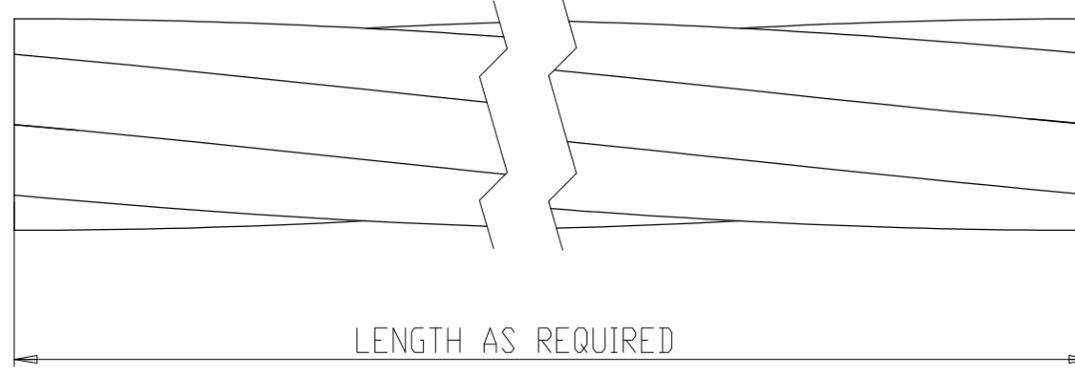
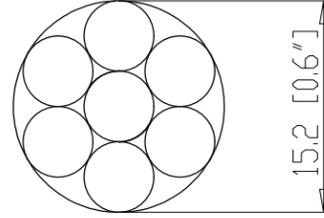


- NOTES:**
1. MATERIAL: AISI 11L17/12L14, PRODUCED IN STRICT ACCORDANCE WITH VSL MS 3.1.006
  2. WEIGHT: 0.197 LBS. (APPROX.)
  3. HEAT TREATMENT: CASEHARDENED
  4. INVENTORY NO. 02WG0008

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

<p><b>structural TECHNOLOGIES</b> A Technical Group Company</p> <p>Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL</p> <p>STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15600 TRINITY BLVD, SUITE 118 FORT WORTH, TX 76156</p> <p>PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET</p>	5	TITLE BLOCK UPDATED	CDL	ZX	26FEB2018
	4	UPDATED TITLE BLOCK	SK	ZX	09JAN2015
	3	UPDATED BORDER	GDH		29APR2004
	2	ADDED INVENTORY NUMBER	TKW		01JAN1989
	NO	DESCRIPTION	BY	CHK	DATE

PROJECT INFORMATION:	PROJECT NO: <b>SYSTEM</b>	SCALE: <b>NTS</b>
TITLE: <b>SYSTEM DRAWING</b>	SHEET NO: <b>C218</b>	
TITLE: <b>0.6" MULTIWEDGE TYPE 1.6G</b>		



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PROJECT INFORMATION:

SYSTEM DRAWING

VSL POST TENSIONING 0.6" BARE STRAND  
ASTM A416, 270KSI

PROJECT NO:  
SYSTEM

SCALE:  
NTS

SHEET NO:

C674



Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL  
 STRUCTURAL TECHNOLOGIES, LLC  
 DALLAS OFFICE  
 15600 TRINITY BLVD., SUITE 118  
 FORT WORTH, TX 76156  
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TITLE BLOCK UPDATED

FOR FDOT

CDL ZX

MM

BY

CHK

DESCRIPTION

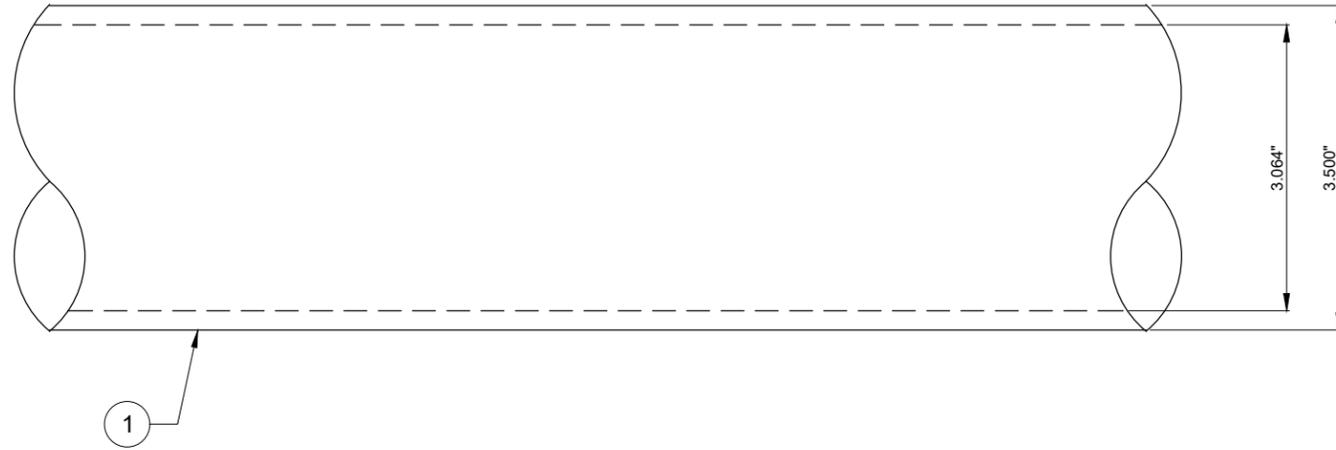
DATE

26FEB2018

04FEB2010

DATE

DATE



ITEM	QTY	DESCRIPTION	MATERIAL
1	-	3" HDPE PIPE DR-17	ASTM D3035

NOTE: MINIMUM BEND RADIUS = 12'-0"

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PROJECT INFORMATION:

PROJECT NO:  
SYSTEM

SHEET NO:

TITLE:  
3" HDPE PIPE

SCALE:  
NTS

C716

**structural TECHNOLOGIES**  
A Structural Group Company

Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15600 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156

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FOR APPROVAL

CDL ZX

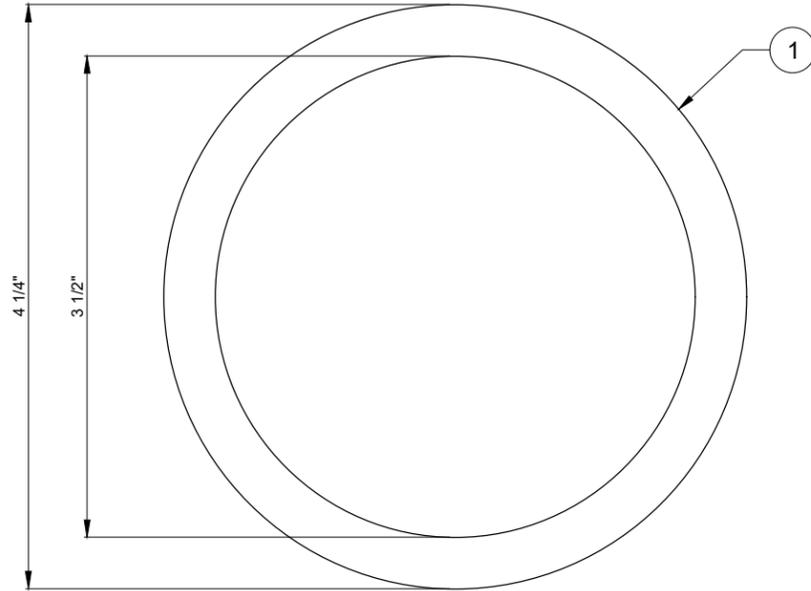
BY

CHK

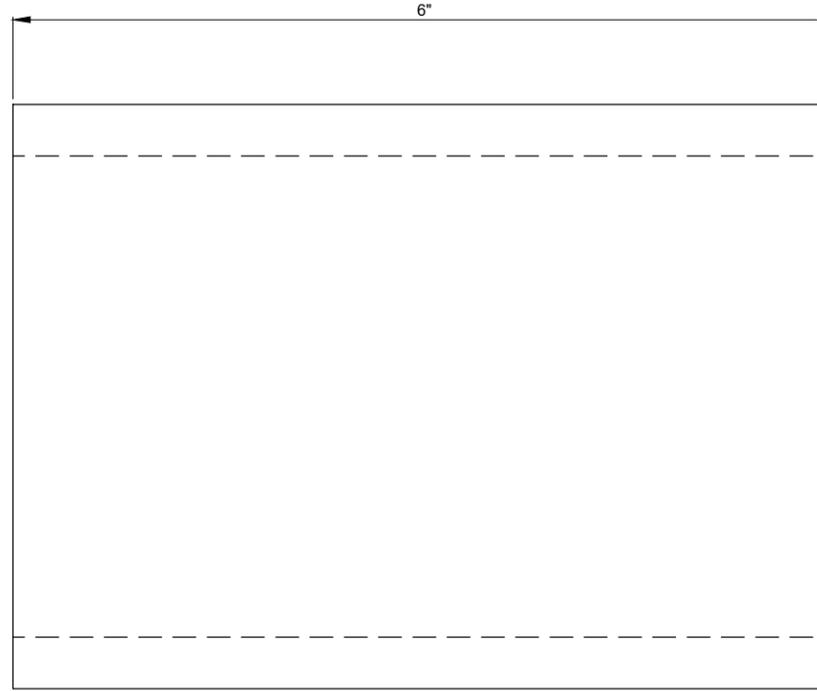
DATE

DESCRIPTION

26FEB2018



END VIEW



SIDE VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3" ELASTOMER SLEEVE	COMPOSITE	02MP31106

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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:  
3" ELASTOMER SLEEVE

PROJECT NO:

SCALE:  
NTS

SHEET NO:

**C759**

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FIRST ISSUE

DESCRIPTION

CDL

ZX

BY

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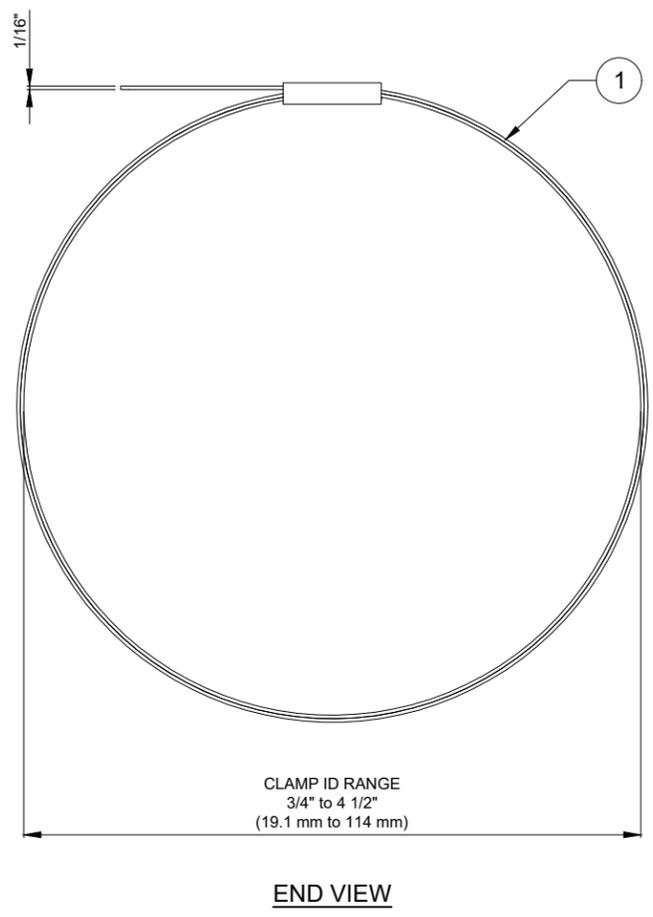
DATE

26FEB2018

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	ELASTOMER SLEEVE BAND CLAMP	316 STAINLESS STEEL	02MP50048



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PROJECT NO:	1	CDL	ZX
SHEET NO:	C760	BY	CHK
TITLE:	ELASTOMER BAND CLAMP	NO	26FEB2018
SCALE:	NTS	DESCRIPTION	DATE

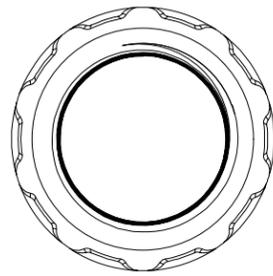
**structural TECHNOLOGIES**  
A Structural Group Company

Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

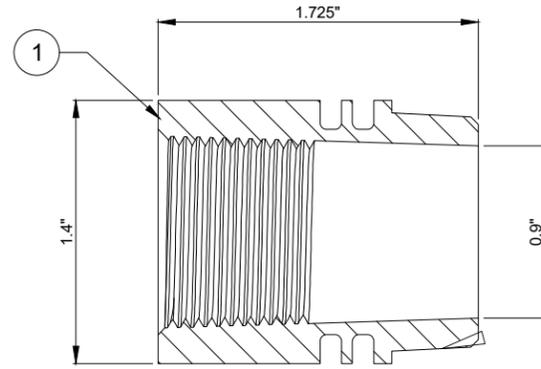
STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
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FORT WORTH, TX 76156

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END VIEW



SIDE VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" FNPT SMOOTH GROUT PORT	POLYETHYLENE	02DT0253

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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:  
3/4" FNPT SMOOTH GROUT PORT

PROJECT NO:

SCALE:  
NTS

SHEET NO:

C743

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NO

FIRST ISSUE

DESCRIPTION

CDL

BY

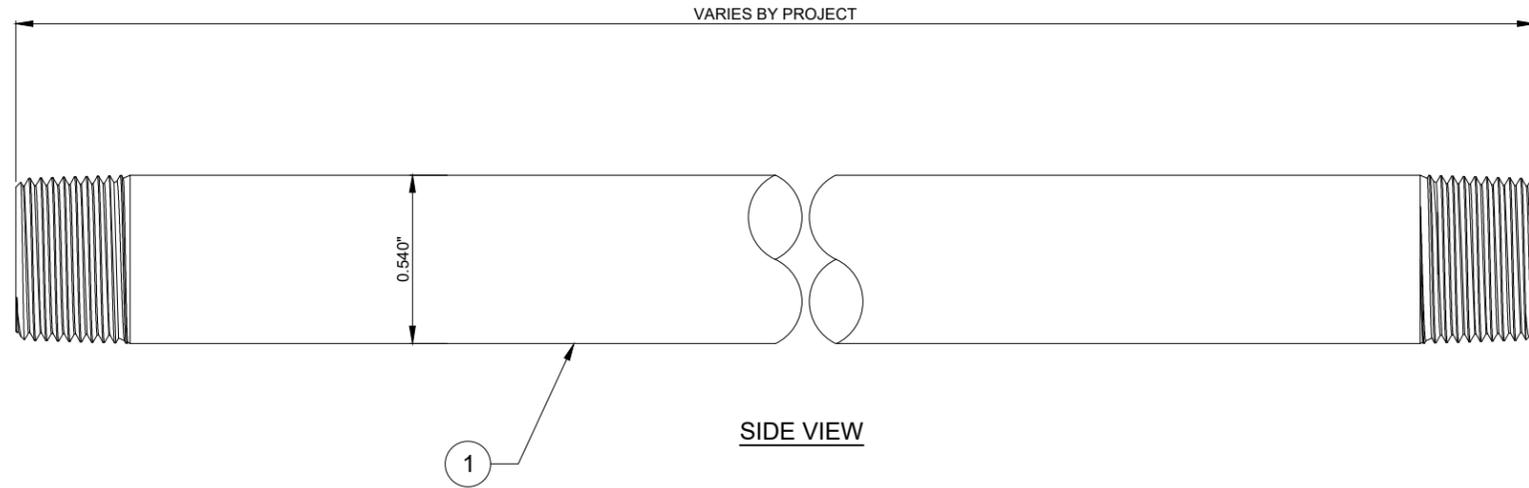
ZX

CHK

26FEB2018

DATE

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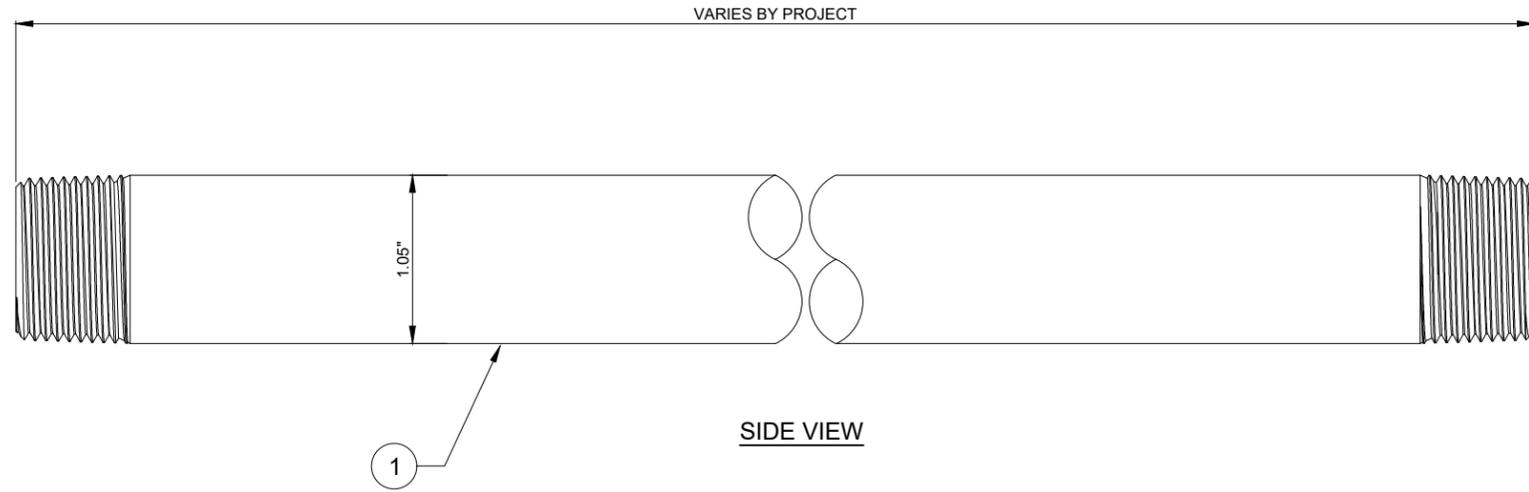


ITEM	QTY	DESCRIPTION	MATERIAL
1	-	1/4" NPT STEEL NIPPLE	SCH 40 STEEL

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PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS STRICTLY PROHIBITED, AND TO THE MATERIAL AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	
PROJECT NO:	1	SCALE:	NTS
SHEET NO:	C749	TITLE:	1/4" NPT STEEL NIPPLE
SYSTEM DRAWING		 <b>structural TECHNOLOGIES</b> A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15600 TRINITY BLVD, SUITE 118 FORT WORTH, TX 76156	
NO	△	FIRST ISSUE	CDL
NO	△	DESCRIPTION	BY
NO	△	DATE	26FEB2018
NO	△	CHK	CHK

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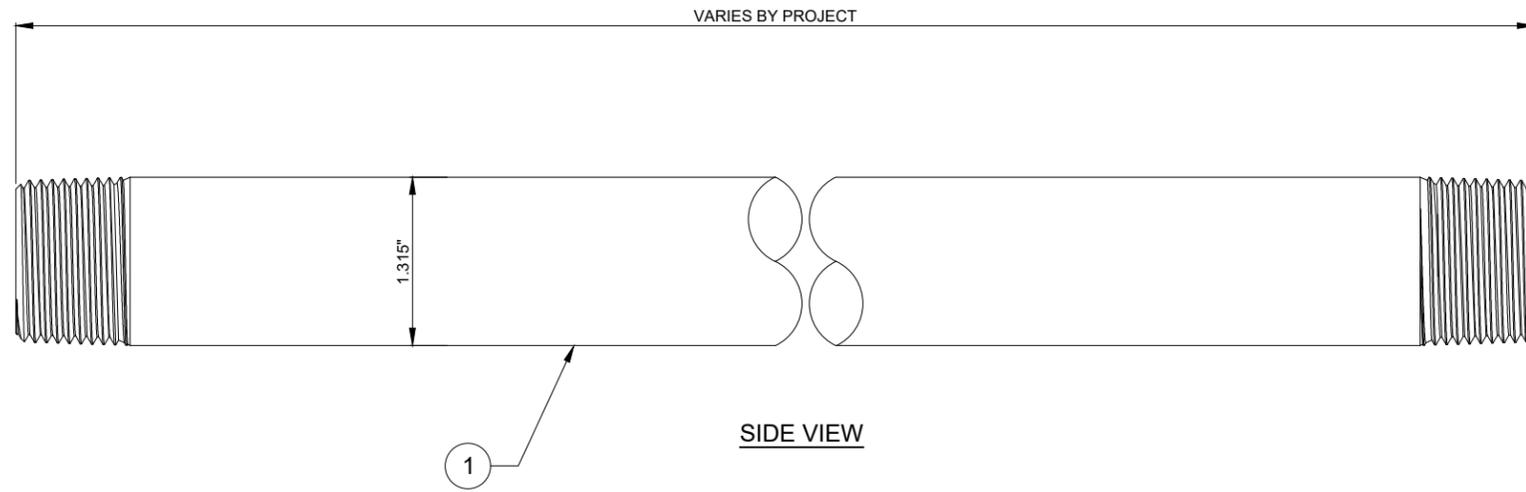


ITEM	QTY	DESCRIPTION	MATERIAL
1	-	3/4" NPT NIPPLE	SCH 40 STEEL

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PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS STRICTLY PROHIBITED, AND TO THE MATERIAL AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	
PROJECT NO:	1	CDL	ZX
SHEET NO:		BY	CHK
TITLE:		FIRST ISSUE	
SCALE:		NO	
DESCRIPTION:		NO	
DATE:		26FEB2018	
SYSTEM DRAWING		DESCRIPTION	
3/4" NPT STEEL NIPPLE		DATE	
C722		DATE	

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ITEM	QTY	DESCRIPTION	MATERIAL
1	-	1" NPT STEEL NIPPLE	SCH 40 STEEL

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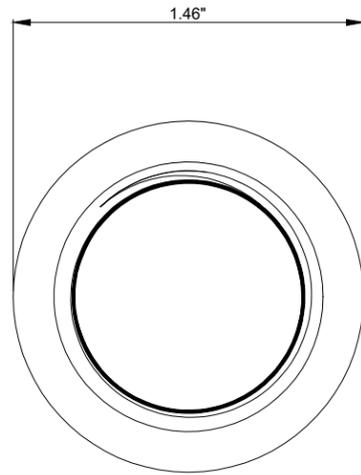
PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS STRICTLY PROHIBITED, AND TO THE MATERIAL AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	
PROJECT NO:	1	CDL	ZX
SHEET NO:		BY	CHK
TITLE:		DESCRIPTION	
SYSTEM DRAWING		FIRST ISSUE	
1" NPT STEEL NIPPLE		NO	
SCALE:		DATE	
NTS		26FEB2018	
C725			

**structural TECHNOLOGIES**  
A Structural Group Company

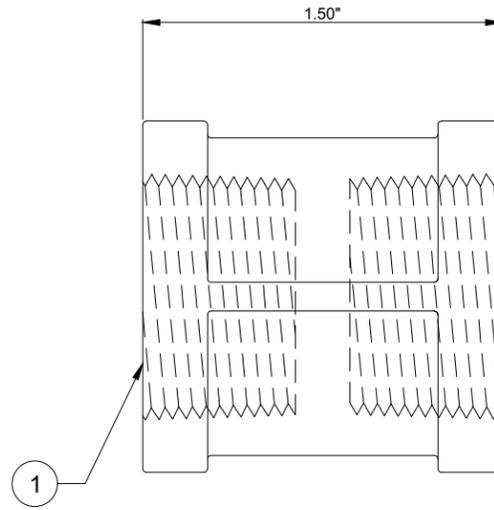
Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

PHONE: (817) 545-4877  
FAX: (817) 545-4827  
WWW.VSL.NET

STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15600 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156



END VIEW



SIDE VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" NPT F/F COUPLER	SCH 40 STEEL	02DT01952

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PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO:

SCALE:  
NTS

SHEET NO:

C728

**structural TECHNOLOGIES**  
A Structural Group Company  
Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

PHONE: (817) 545-4877  
FAX: (817) 545-4827  
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STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
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NO

FIRST ISSUE

DESCRIPTION

CDL

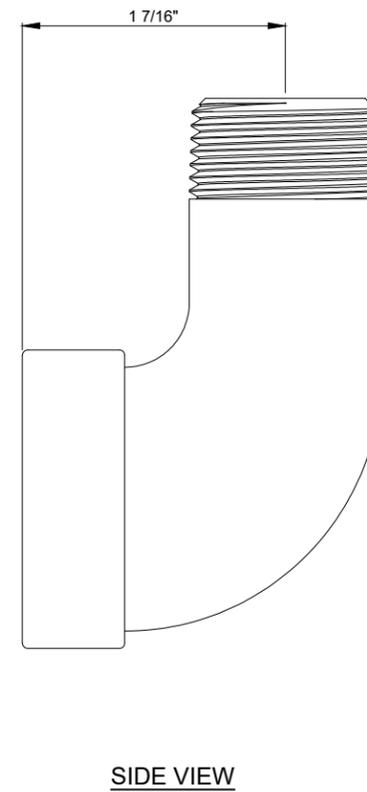
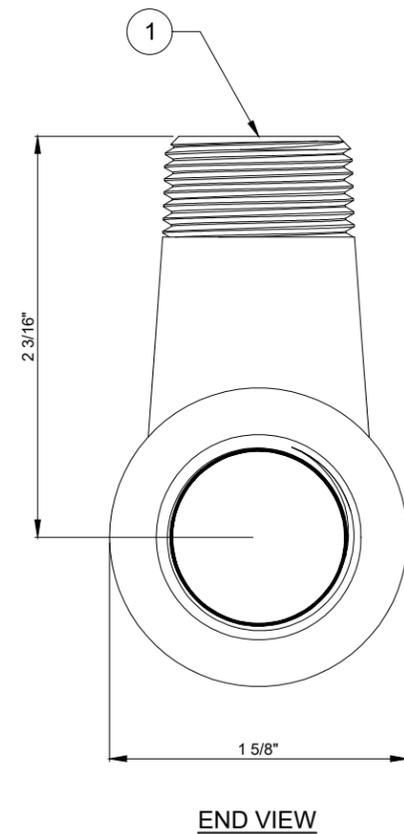
BY

CHK

DATE

26FEB2018

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01954



THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO: -  
SCALE: NTS

SHEET NO: C750

**structural TECHNOLOGIES**  
A Structural Group Company

Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15000 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156

PHONE: (817) 545-4807  
FAX: (817) 545-4827  
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NO

FIRST ISSUE

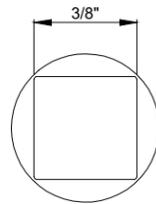
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CDL BY

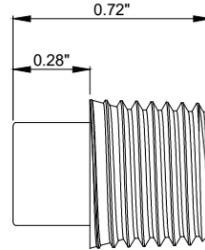
ZX CHK

26FEB2018 DATE

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.  
 ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.  
 ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED.



END VIEW



SIDE VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956

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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:  
1/4" NPT STEEL PLUG

PROJECT NO:

SCALE:  
NTS

SHEET NO:

C747

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**structural TECHNOLOGIES**  
 A Structural Group Company  
 Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

STRUCTURAL TECHNOLOGIES, LLC  
 DALLAS OFFICE  
 15600 TRINITY BLVD, SUITE 118  
 FORT WORTH, TX 76156

PHONE: (817) 545-4807  
 FAX: (817) 545-4827  
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FIRST ISSUE

DESCRIPTION

CDL

ZX

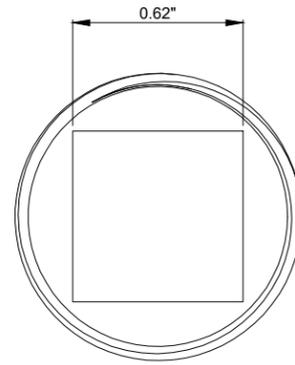
26FEB2018

DATE

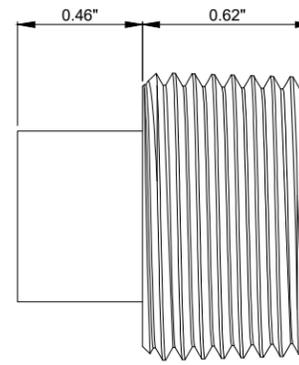
BY

CHK

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01957



END VIEW



SIDE VIEW

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO: -

SHEET NO:

TITLE:  
3/4" NPT STEEL PLUG

SCALE:  
NTS

C748

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NO

FIRST ISSUE

DESCRIPTION

CDL

BY

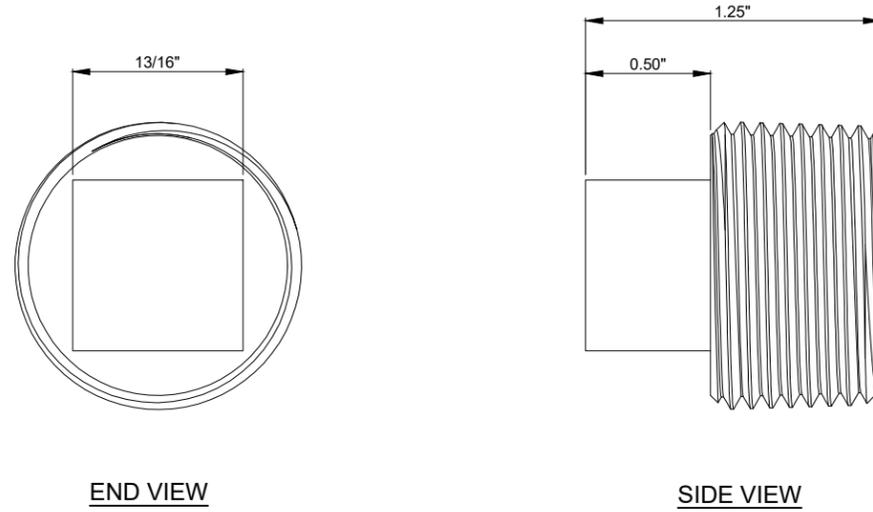
ZX

CHK

26FEB2018

DATE

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958



THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS STRICTLY PROHIBITED. THE MATERIAL WAS PREPARED AND TO THE MATERIAL AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	
PROJECT NO:	1	CDL	ZX
SHEET NO:	C754	BY	CHK
TITLE:		FIRST ISSUE	
SCALE:		NO	
DESCRIPTION:		NO	
DATE:		26FEB2018	

**structural TECHNOLOGIES**  
A Structural Group Company

Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

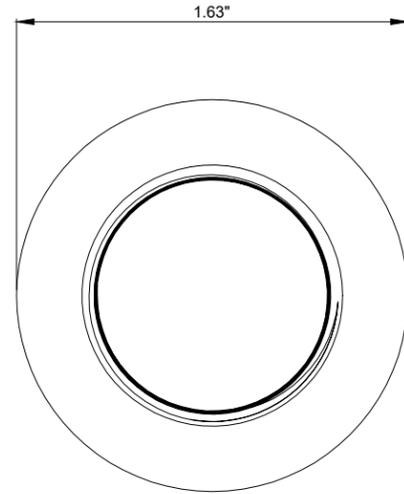
PHONE: (817) 545-4877  
FAX: (817) 545-4827  
WWW.VSL.NET

STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15000 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156

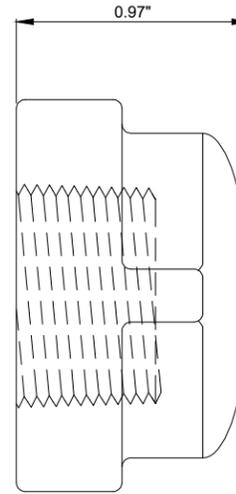
SYSTEM DRAWING

1" NPT STEEL PLUG

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" NPT STEEL CAP	SCH 40 STEEL	02DT01950



END VIEW

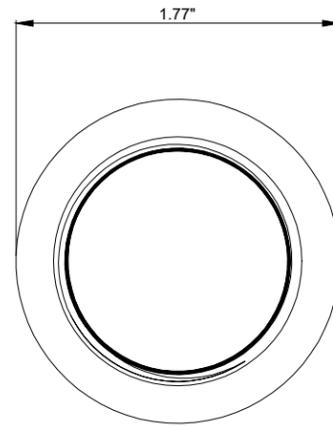


SIDE VIEW

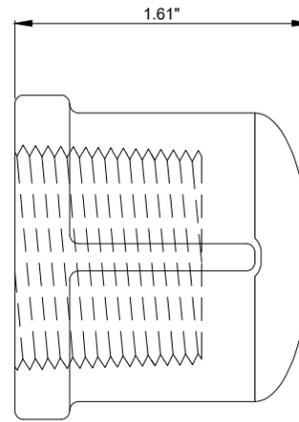
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PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS STRICTLY PROHIBITED. THE MATERIAL WAS PREPARED AND TO THE MATERIAL AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	
PROJECT NO:	1	CDL	ZX
SHEET NO:	C724	BY	CHK
TITLE:	3/4" NPT STEEL CAP	NO	DATE
SCALE:	NTS	DESCRIPTION	26FEB2018
SYSTEM DRAWING		NO	DATE

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL EMPLOYEE ON THESE SHOP DRAWINGS PERTAINS ONLY TO THE TRANSFER OF THE FORCES REQUIRED BY THE ENGINEER OF RECORD ON THE STRUCTURAL DRAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.



END VIEW



SIDE VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1" NPT STEEL CAP	SCH 40 STEEL	02DT01951

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PROJECT NO:	1	CDL	ZX
SHEET NO:	C727	BY	CHK
TITLE:	1" NPT STEEL CAP	NO	DATE
SCALE:	NTS	DESCRIPTION	26FEB2018

**structural TECHNOLOGIES**  
A Structural Group Company

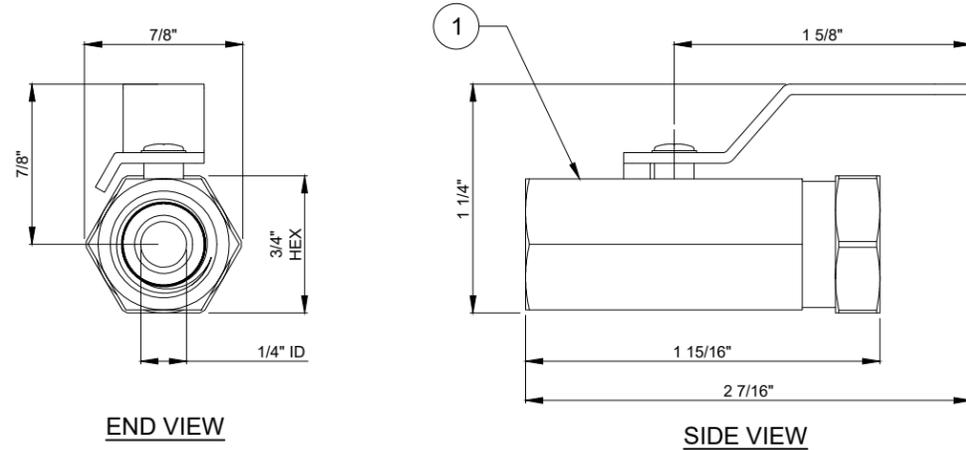
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STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15600 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156

**VSL**

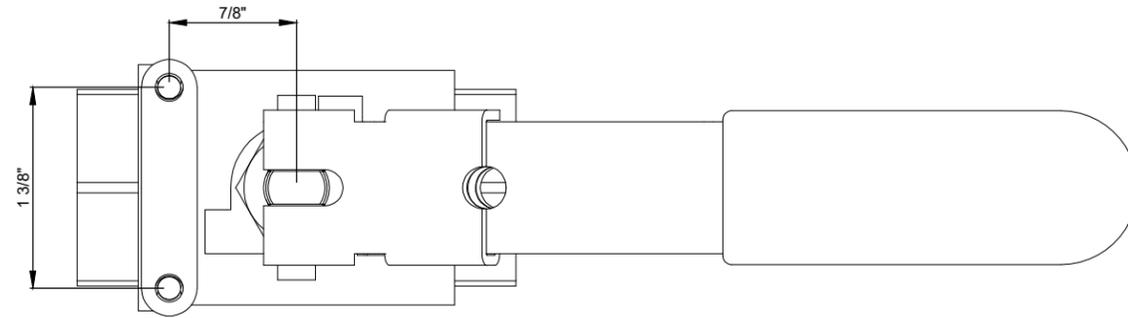
PHONE: (817) 545-4877  
FAX: (817) 545-4827  
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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1/4" F/F NPT 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924

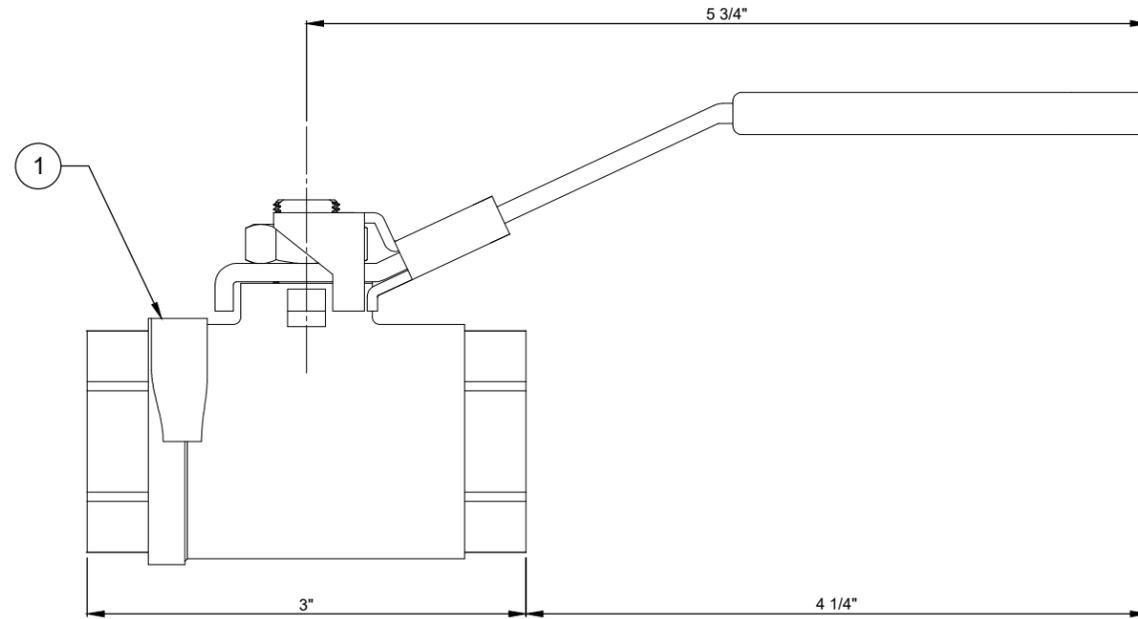


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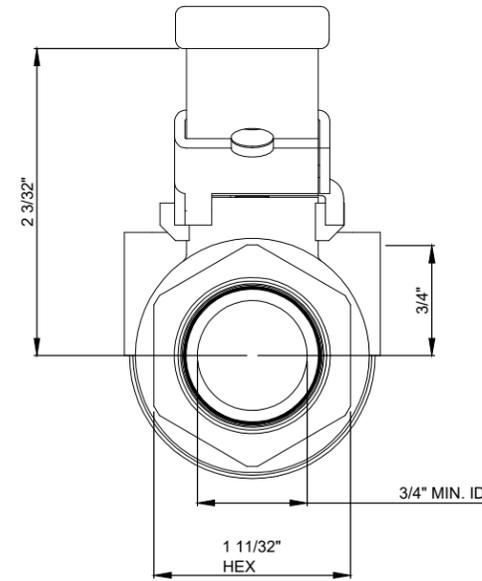
PROJECT INFORMATION:		SYSTEM DRAWING	
PROJECT NO:	-	SCALE:	NTS
SHEET NO:		TITLE:	1/4" F/F NPT 1/4 TURN BALL VALVE
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NO	NO	DESCRIPTION	FIRST ISSUE
BY	CDL	CHK	ZX
DATE	26FEB2018		



TOP VIEW



SIDE VIEW



END VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01925

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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE: 3/4" NPT STEEL 1/4 TURN BALL VALVE

PROJECT NO: 1

SCALE: NTS

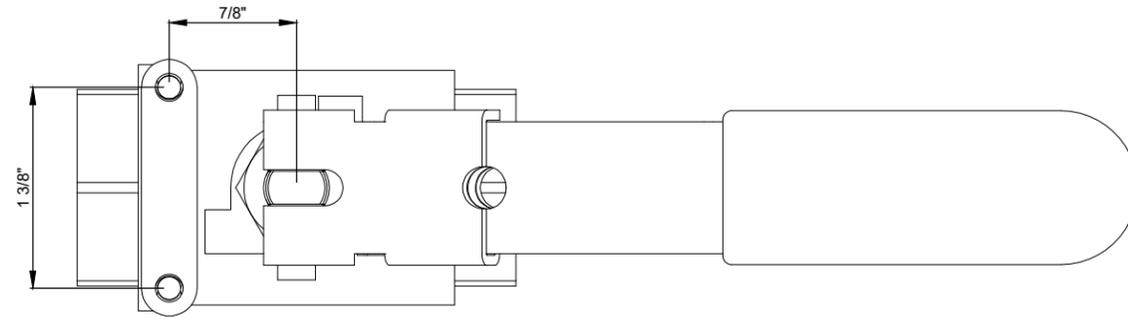
SHEET NO: C745

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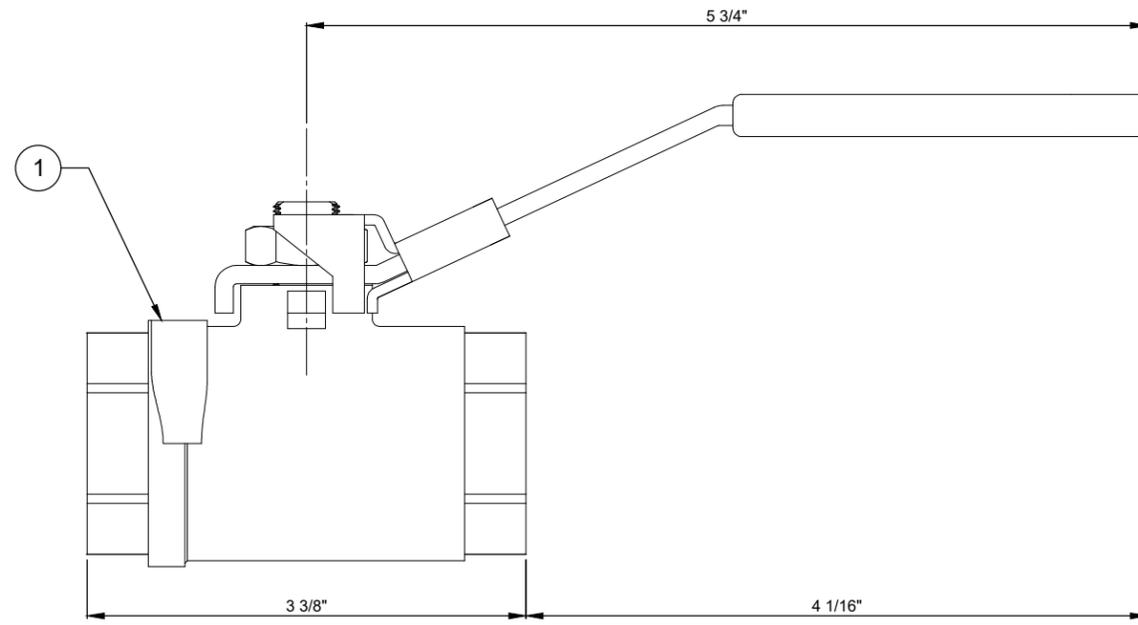

  
**structural TECHNOLOGIES**
  
 A Structural Group Company
   
 Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL
   
 PHONE: (817) 545-4877
   
 FAX: (817) 545-4827
   
 WWW.VSL.NET

STRUCTURAL TECHNOLOGIES, LLC
   
 DALLAS OFFICE
   
 15600 TRINITY BLVD, SUITE 118
   
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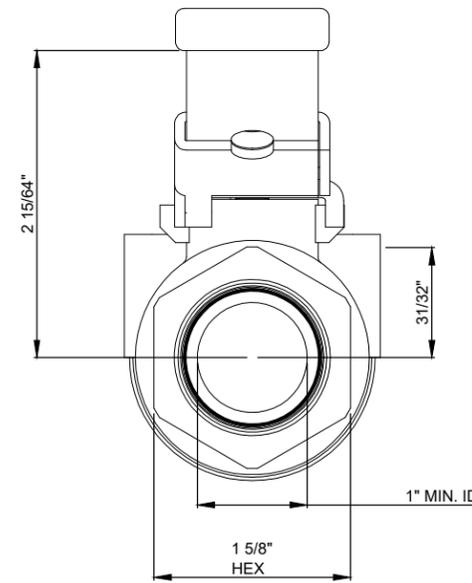
NO	△	FIRST ISSUE	DESCRIPTION	BY	CHK	DATE
		CDL	ZX	26FEB2018		



TOP VIEW



SIDE VIEW



END VIEW

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01926

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PROJECT NO:	1	DATE:	26FEB2018
SHEET NO:	C746	BY:	CDL
TITLE:	1" NPT STEEL 1/4 TURN BALL VALVE	CHK:	ZX
SCALE:	NTS	DESCRIPTION:	FIRST ISSUE
			NO

**structural TECHNOLOGIES**  
A Structural Group Company

Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

PHONE: (817) 545-4877  
FAX: (817) 545-4827  
WWW.VSL.NET

STRUCTURAL TECHNOLOGIES, LLC  
DALLAS OFFICE  
15600 TRINITY BLVD, SUITE 118  
FORT WORTH, TX 76156