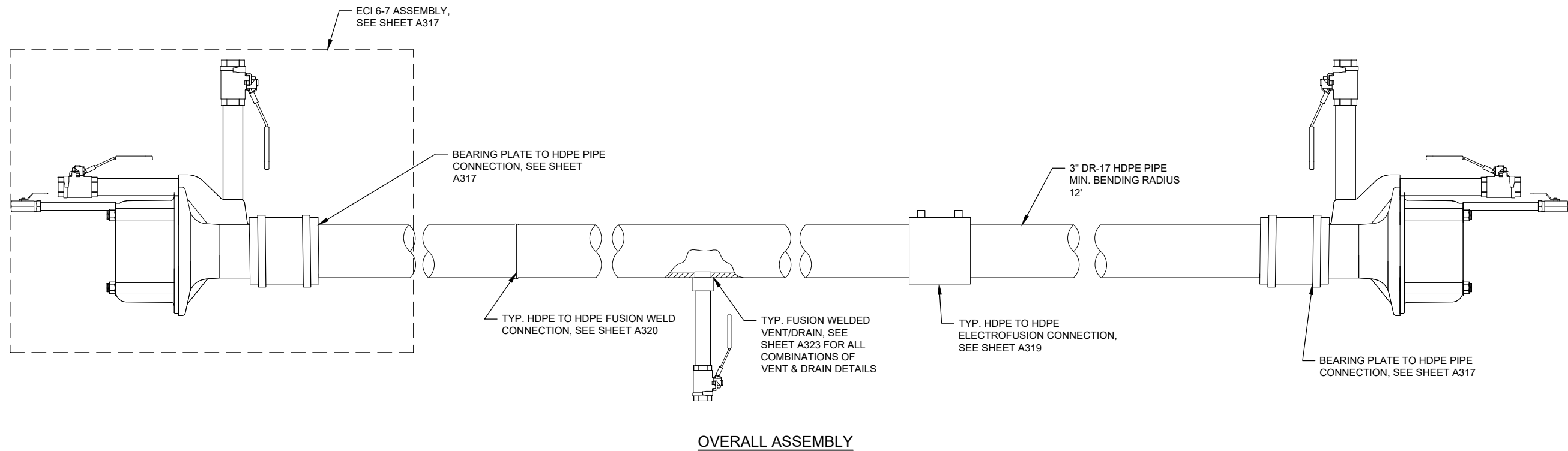



ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-7 Flexible Filler Submittal

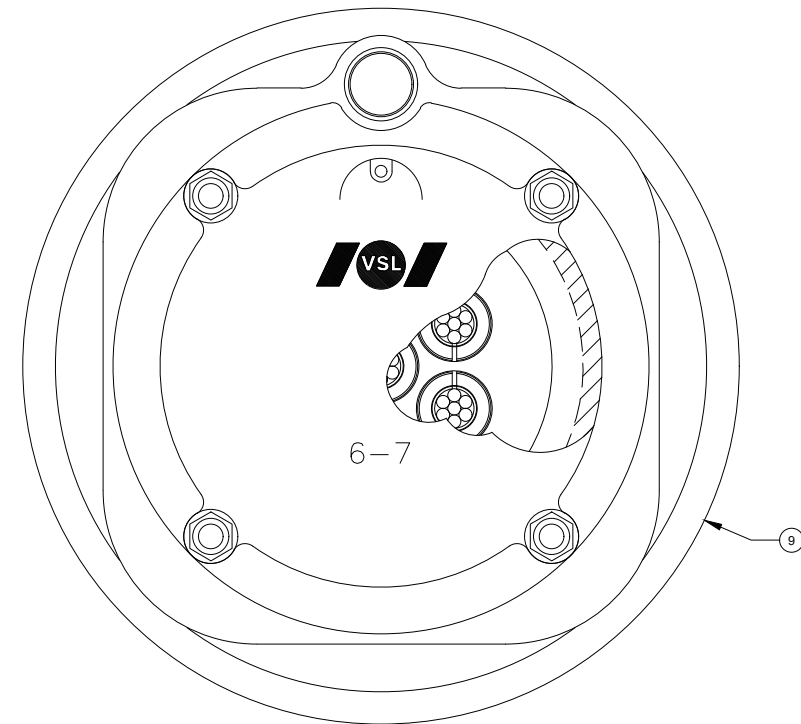


OVERALL ASSEMBLY

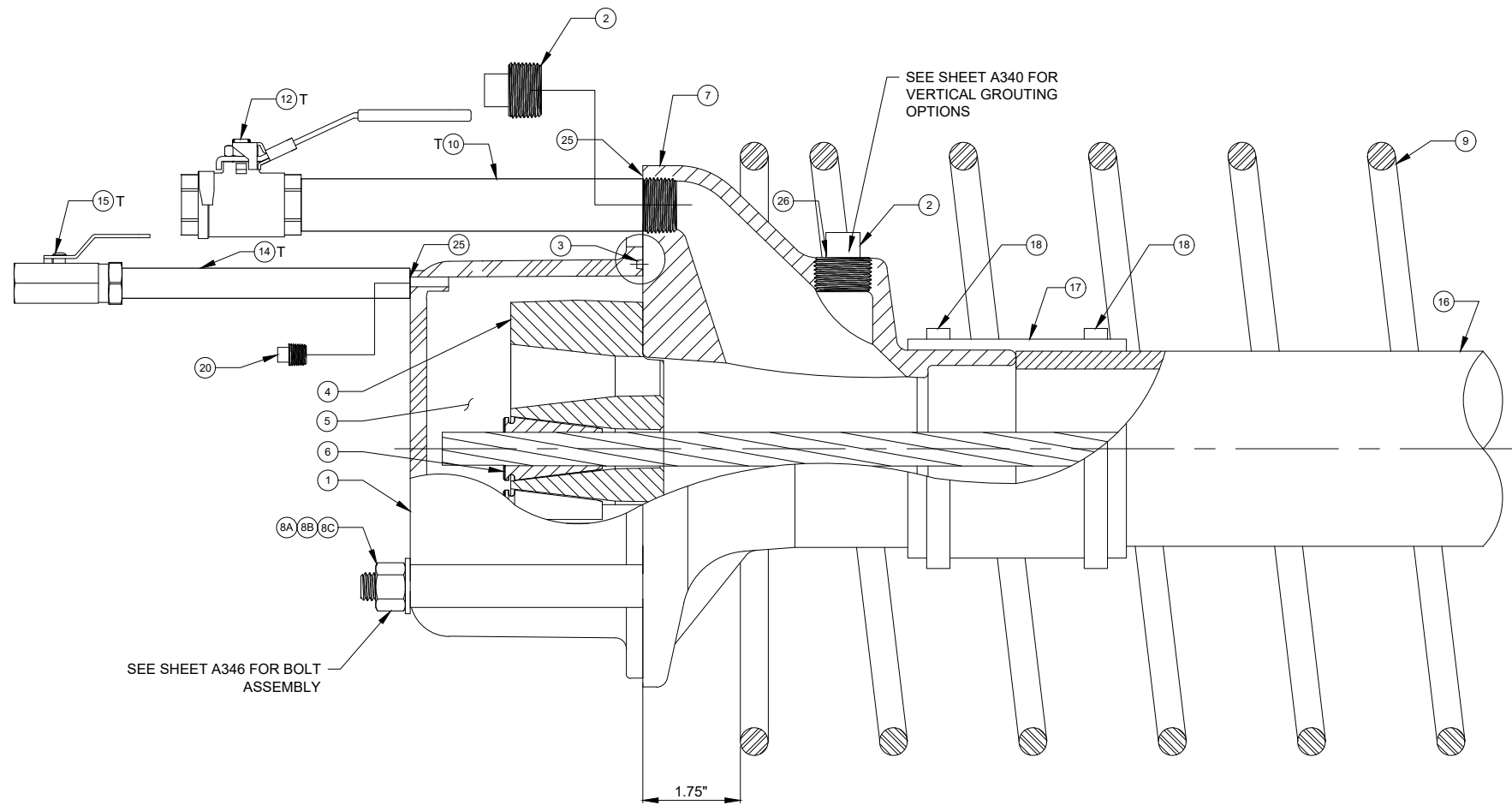
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PROJECT INFORMATION:		SYSTEM DRAWING	
PROJECT NO:	1	SCALE:	NTS
SHEET NO:		A318	
 STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15000 TRINITY BLVD, SUITE 118 FORT WORTH, TX 76155 Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET		FOR APPROVAL NO	
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.		CDL	ZX
		BY	CHK
			DATE
			26FEB2018

ELECTRONIC FILE LOCATION: \\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	02WX5017
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.
- 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).
- SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.
- PER FDOT SPECIFICATION SECTION 462-8.2.1.2, A VACUUM TEST IS REQUIRED PRIOR TO CONCRETE PLACEMENT.
- CONCRETE PLACEMENT OCCURS BY OTHERS.
- INSTALL STRAND. LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.
- INSTALL ANCHOR HEADS. 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.
- SYSTEM IS NOW READY TO AIR TEST.
- PER THE FDOT SPECIFICATION SECTION 462-8.2.2, A SECOND AIR PRESSURE TEST IS REQUIRED AFTER STRAND STRESSING AND PRIOR TO WAX INJECTION.
- 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

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

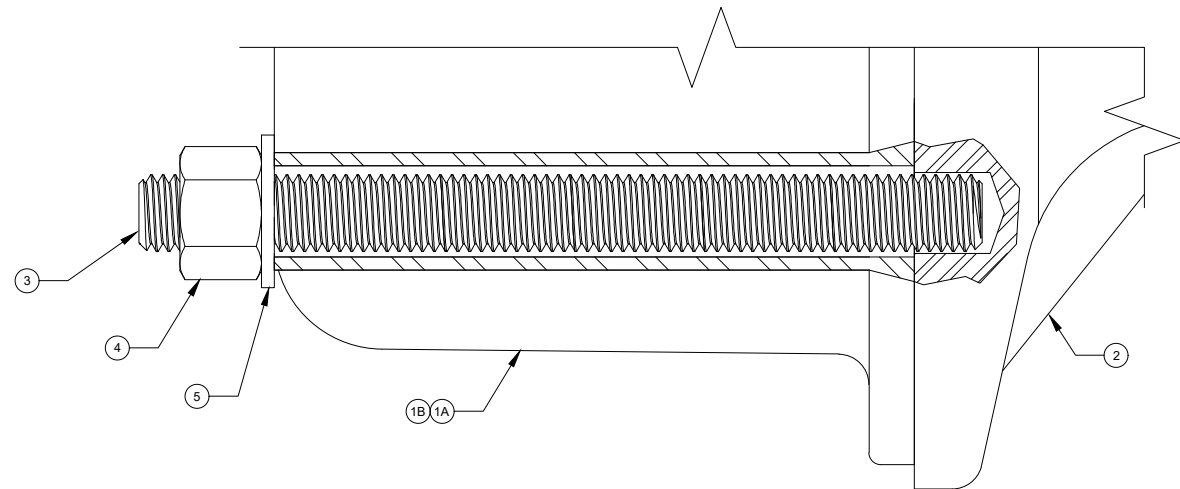
STRUCTURAL TECHNOLOGIES, LLC
DALLAS OFFICE
15600 TRINITY BLVD, SUITE 118
FORT WORTH, TX 76156

PROJECT INFORMATION:
SYSTEM DRAWING

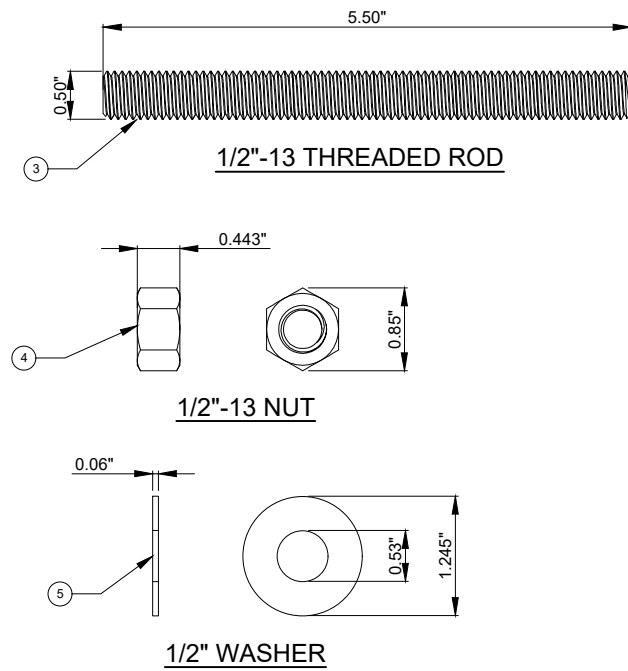
PROJECT NO: --
SCALE: NTS
SHEET NO: A317

TITLE:
ECI 6-7 ASSEMBLY WITH FLEXIBLE FILLER

NO	DESCRIPTION	BY	CHK	DATE
1	PART NUMBER UPDATED	CDL	ZX	26JUN2018
2	FOR APPROVAL	CDL	ZX	26FEB2018



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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PROJECT INFORMATION:

SYSTEM DRAWING

ECI 6-7 BOLT ASSEMBLY

PROJECT NO: --
SHEET NO:

SCALE: NTS

A346

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 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

FOR APPROVAL

CDL

ZX

26FEB2018

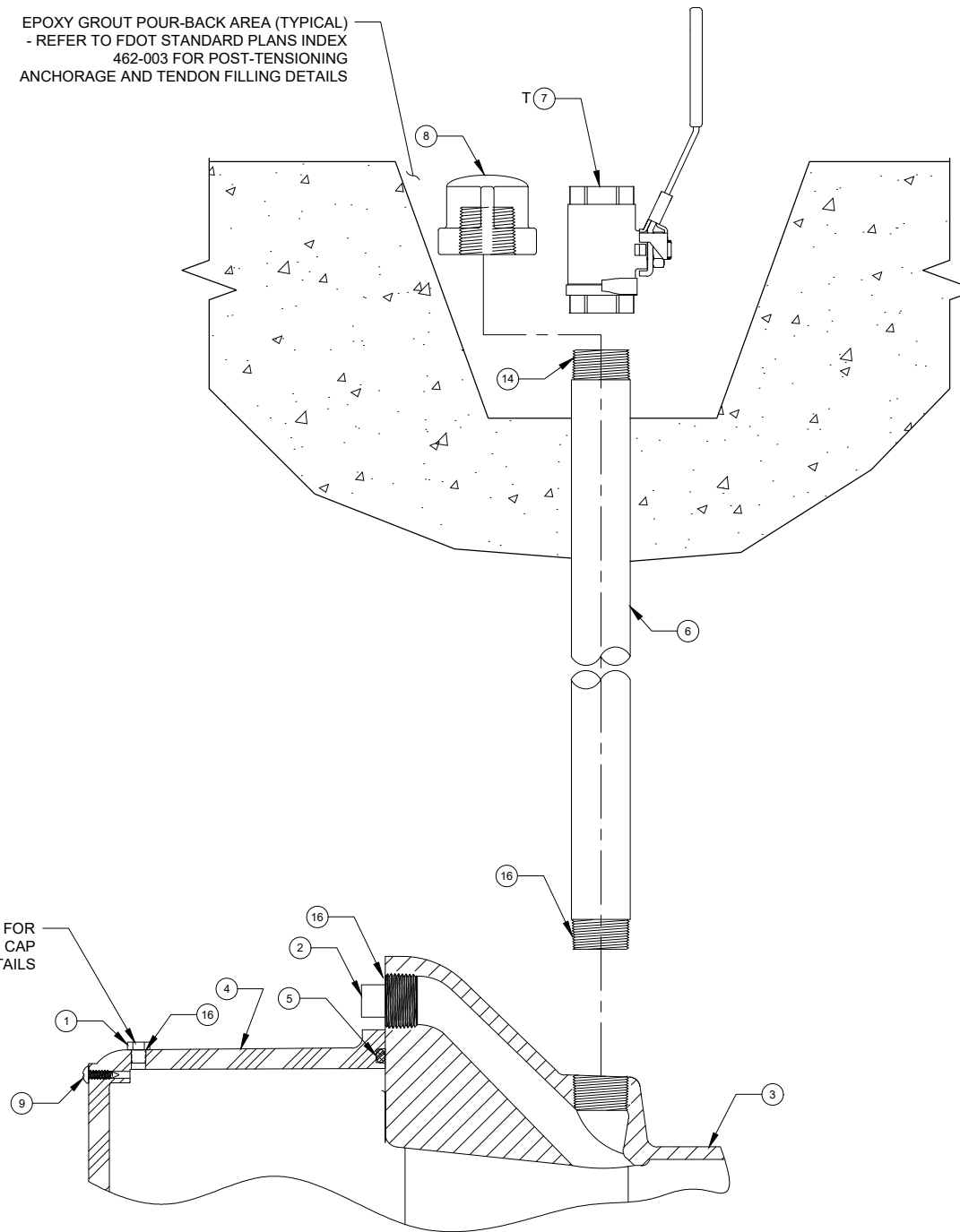
DESCRIPTION

BY

CHK

DATE

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	02WX5017
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	-	-

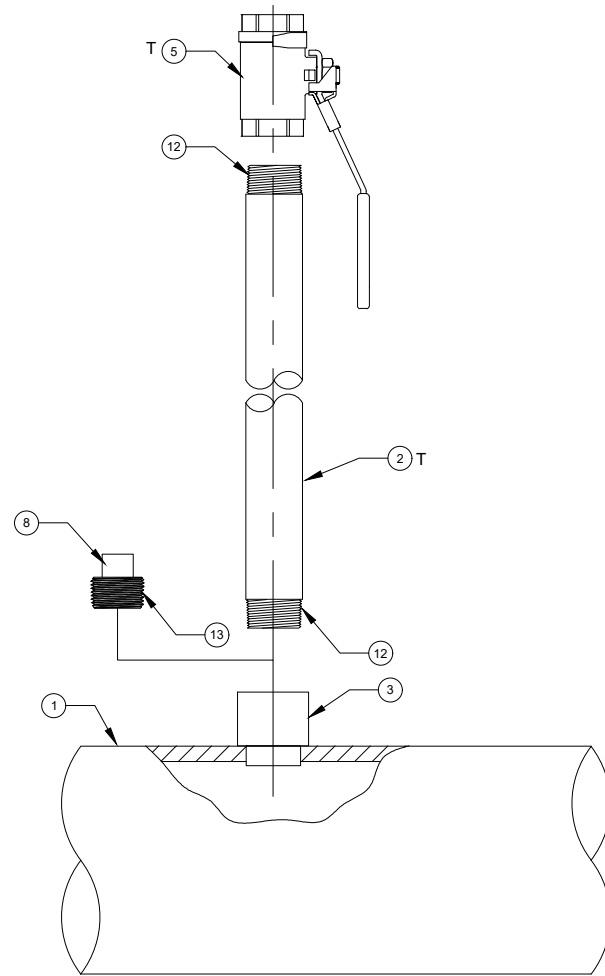
NOTES:

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

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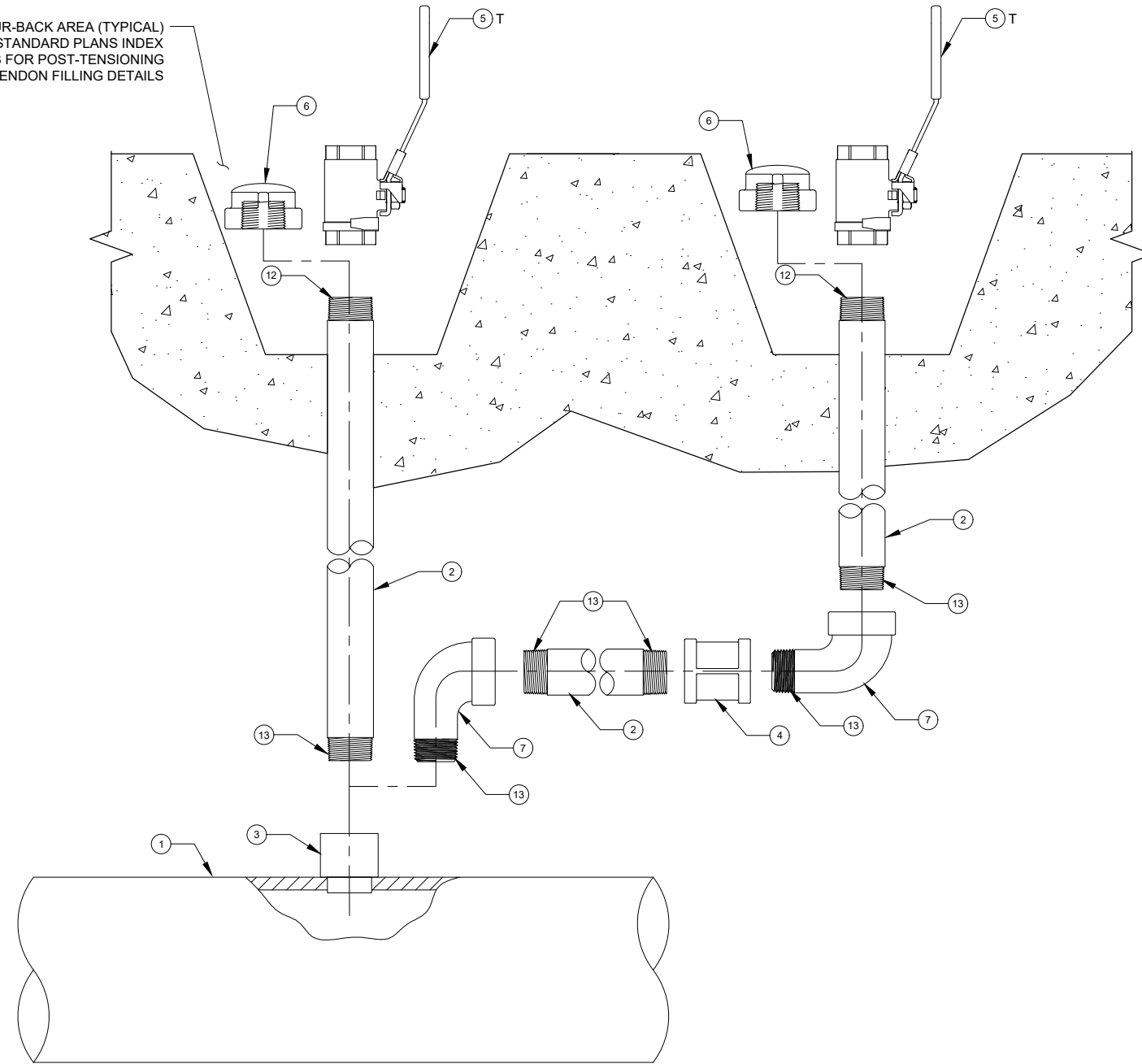
PROJECT INFORMATION:		SYSTEM DRAWING	
PROJECT NO:	---	SCALE:	NTS
SHEET NO:		A340	
 <p>structural TECHNOLOGIES A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL</p>		<p>PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET</p>	
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<p>1</p>		<p>FOR APPROVAL</p>	
<p>CDL</p>		<p>BY</p>	
<p>26FEB2018</p>		<p>DATE</p>	

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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DALLAS OFFICE
15000 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: --
SCALE: NTS
SHEET NO: A323

TITLE:
3" HDPE PIPE VENT ASSEMBLY

NO

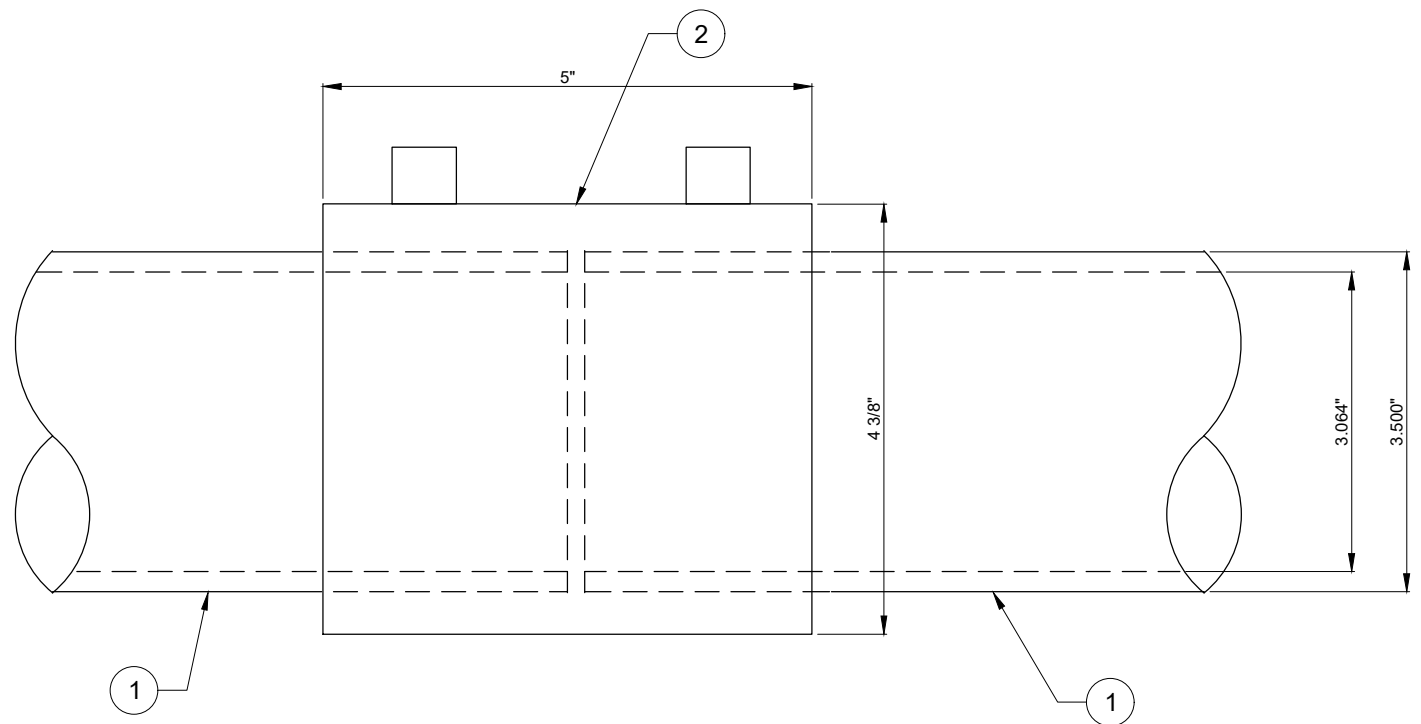
FOR APPROVAL

CDL

ZX

CHK

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

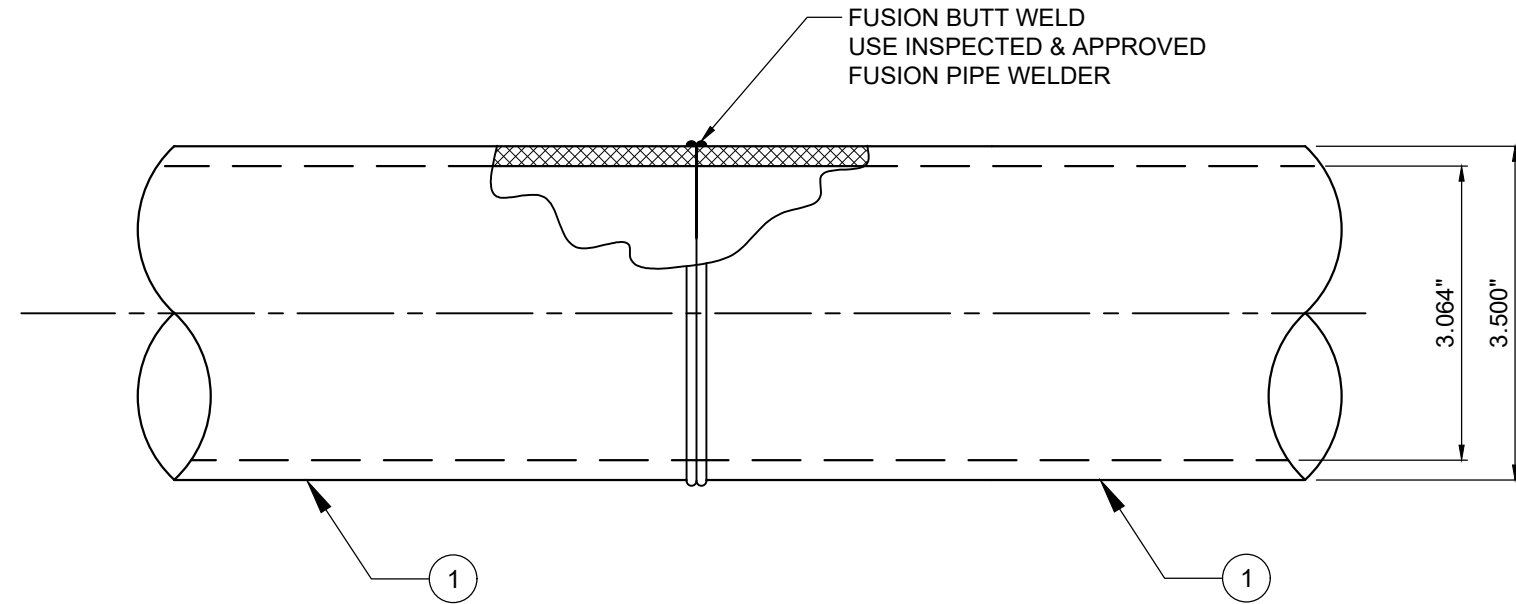
DESCRIPTION

CDL BY
ZCX

CHK BY
ZCX

DATE
26FEB2018

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ELEVATION VIEW

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

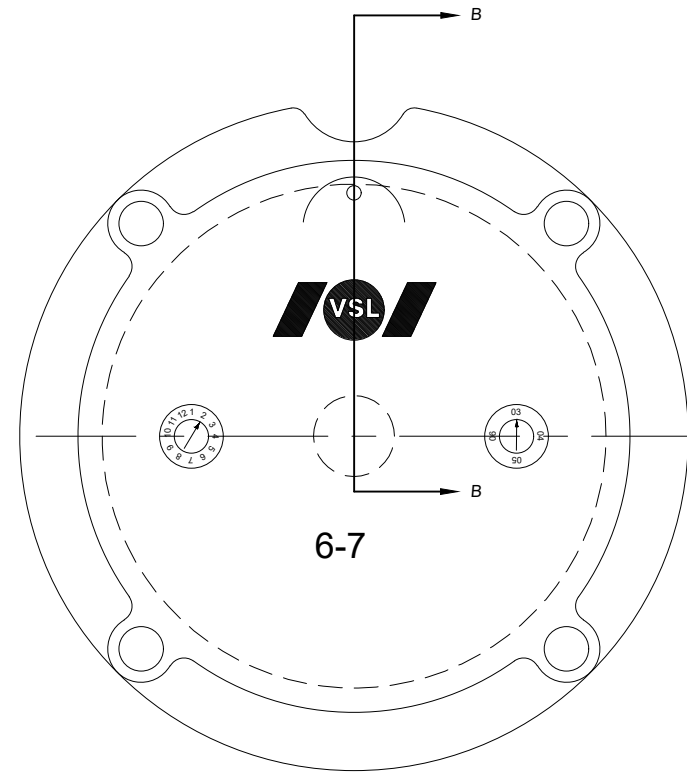
- NOTES:
1. HDPE 3" IPS/DR-17 MEETS FDOT 960 SPEC.
 2. SEE VSL BUTT-WELDING PROCEDURE IN APPENDIX

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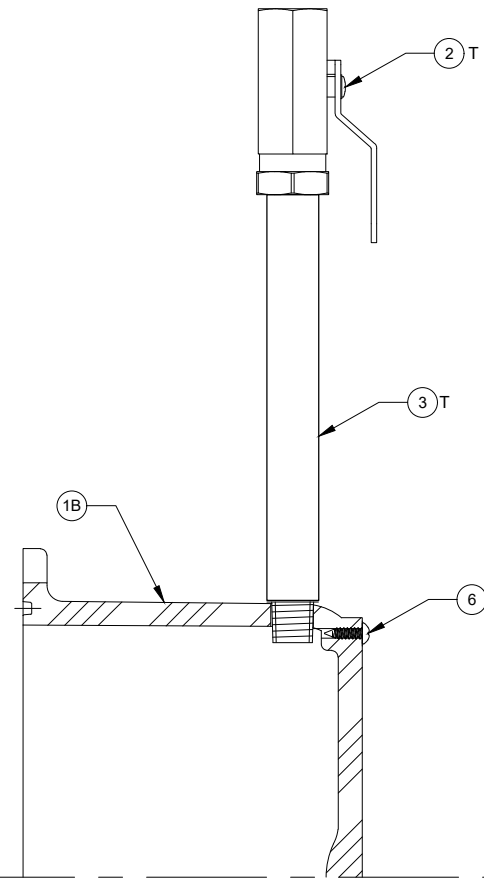
<p>structural TECHNOLOGIES A Structural Group Company</p> <p>Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL</p> <p>PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET</p>		<p>APPROVED FOR CONSTRUCTION</p> <p>CDL ZX</p>		<p>26FEB2018</p>
<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p>		<p>NO</p>		<p>DATE</p>
<p>TITLE:</p> <p>TYPICAL 3" HDPE PIPE TO 3" HDPE PIPE FUSION WELDED CONNECTION</p>		<p>DESCRIPTION</p>		<p>CHK</p>
<p>PROJECT NO:</p> <p>SYSTEM</p>		<p>NO</p>		<p>BY</p>
<p>SHEET NO:</p> <p>A320</p>		<p>NO</p>		<p>DATE</p>

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

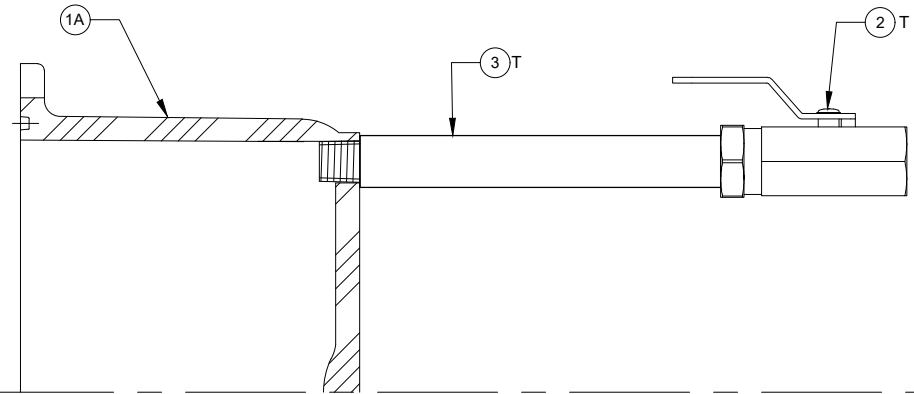
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY NUMBER
6	1	3/16" PAN HEAD SCREW	316 STAINLESS STEEL	02WX1070
4	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
3	1	1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-
2	1	1/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924
1B	1	6-7 ANCHORAGE CAP W/ 1/4" NPT TOP PORT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



6-7 ANCHORAGE CAP

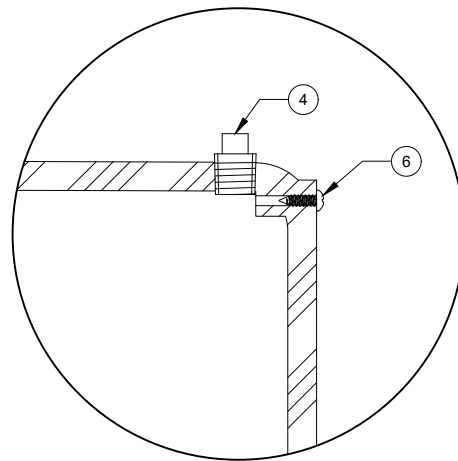


TOP PORT

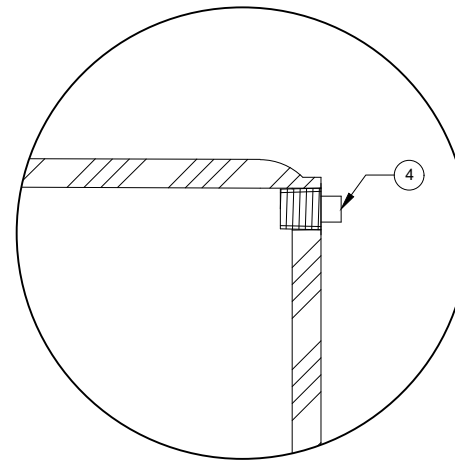


FRONT PORT

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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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

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

PROJECT NO: SYSTEM
SCALE: NTS

SHEET NO: A335

TITLE BLOCK UPDATED
VENT DETAILS
3/4" GROUT PORTS

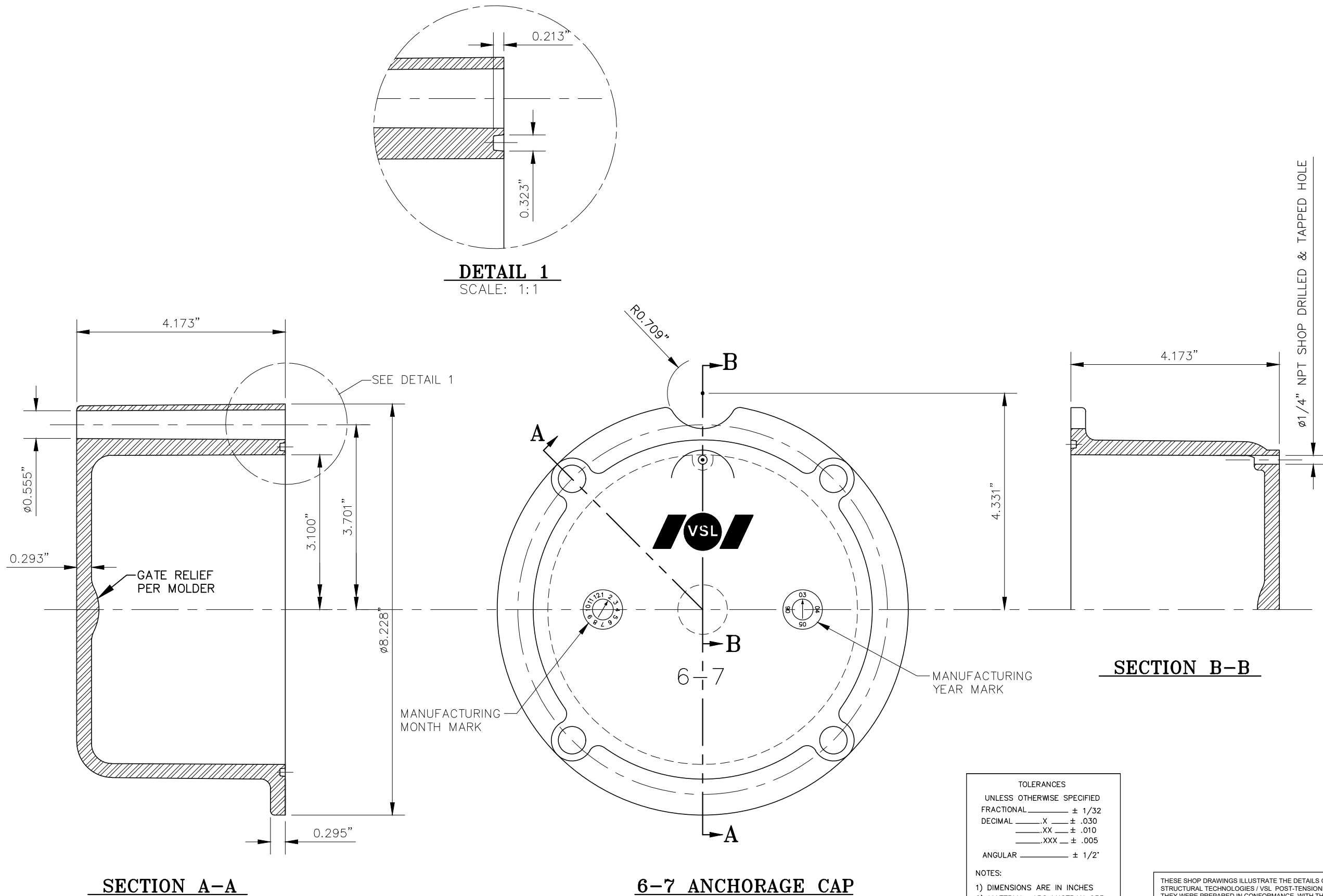
NO
DESCRIPTION

26FEB2018
ZK
DD
DD
DATE

CDL
DTS
DTS
BY

CHK

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

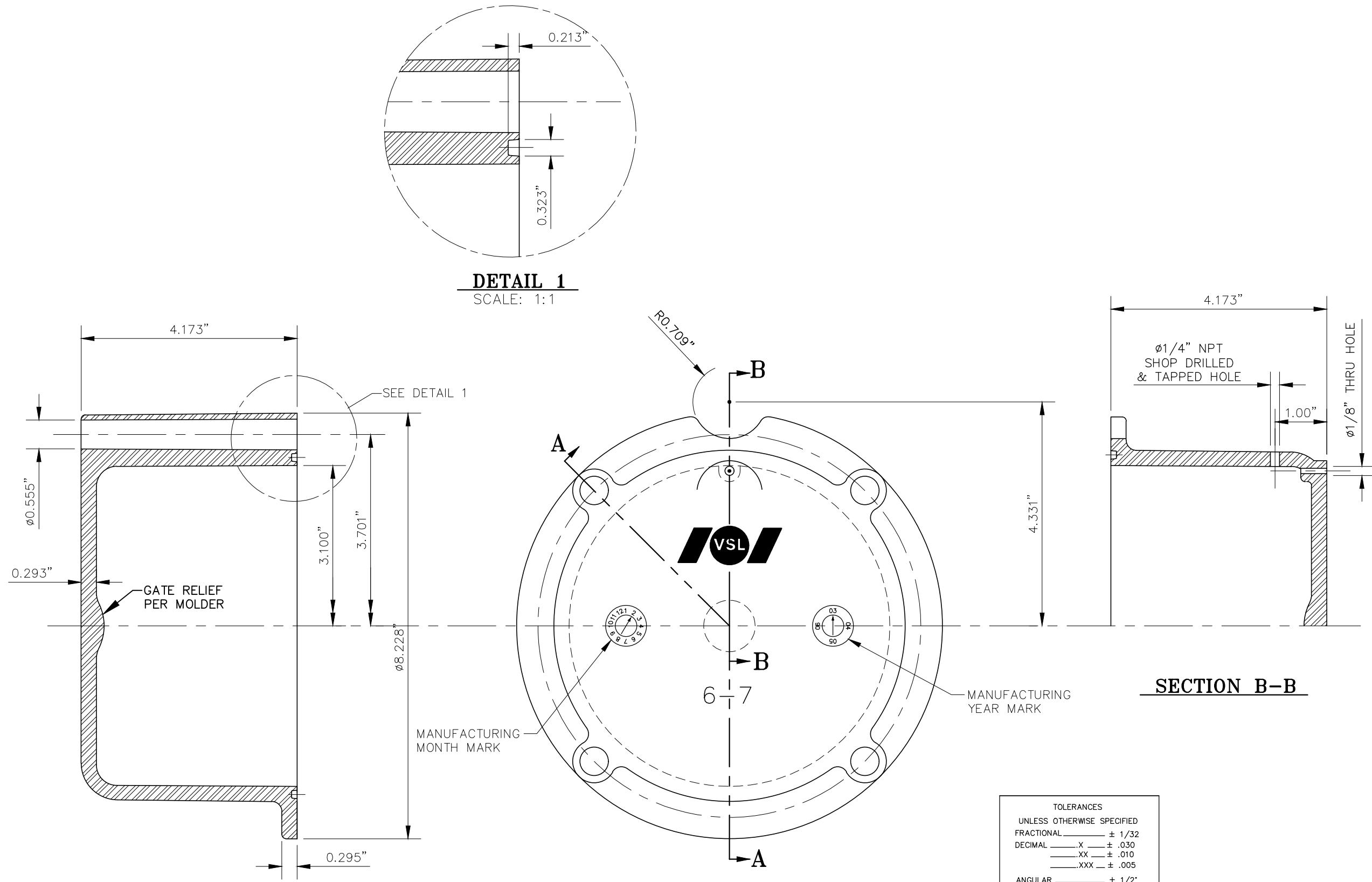
TOLERANCES
UNLESS OTHERWISE SPECIFIED
FRACTIONAL _____ ± 1/32
DECIMAL ____X ____ ± .030
____.XX ____ ± .010
____.XXX ____ ± .005
ANGULAR _____ ± 1/2°

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	DESCRIPTION		
SHEET NO: C547		BY	CHK	DATE
TITLE BLOCK UPDATED		NO		
GATE RELIEF ADDED		3		
ISSUED FOR PRODUCTION		2		
ADD MANUFACTURING DATE MARKS		1		

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SECTION A-A

SECTION B-B

DETAIL 1
SCALE: 1:1

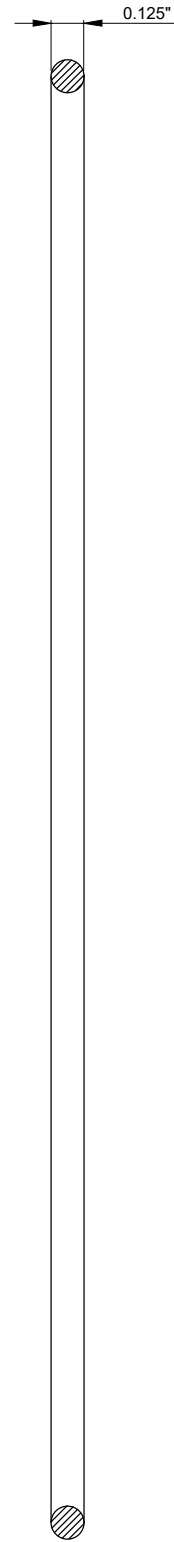
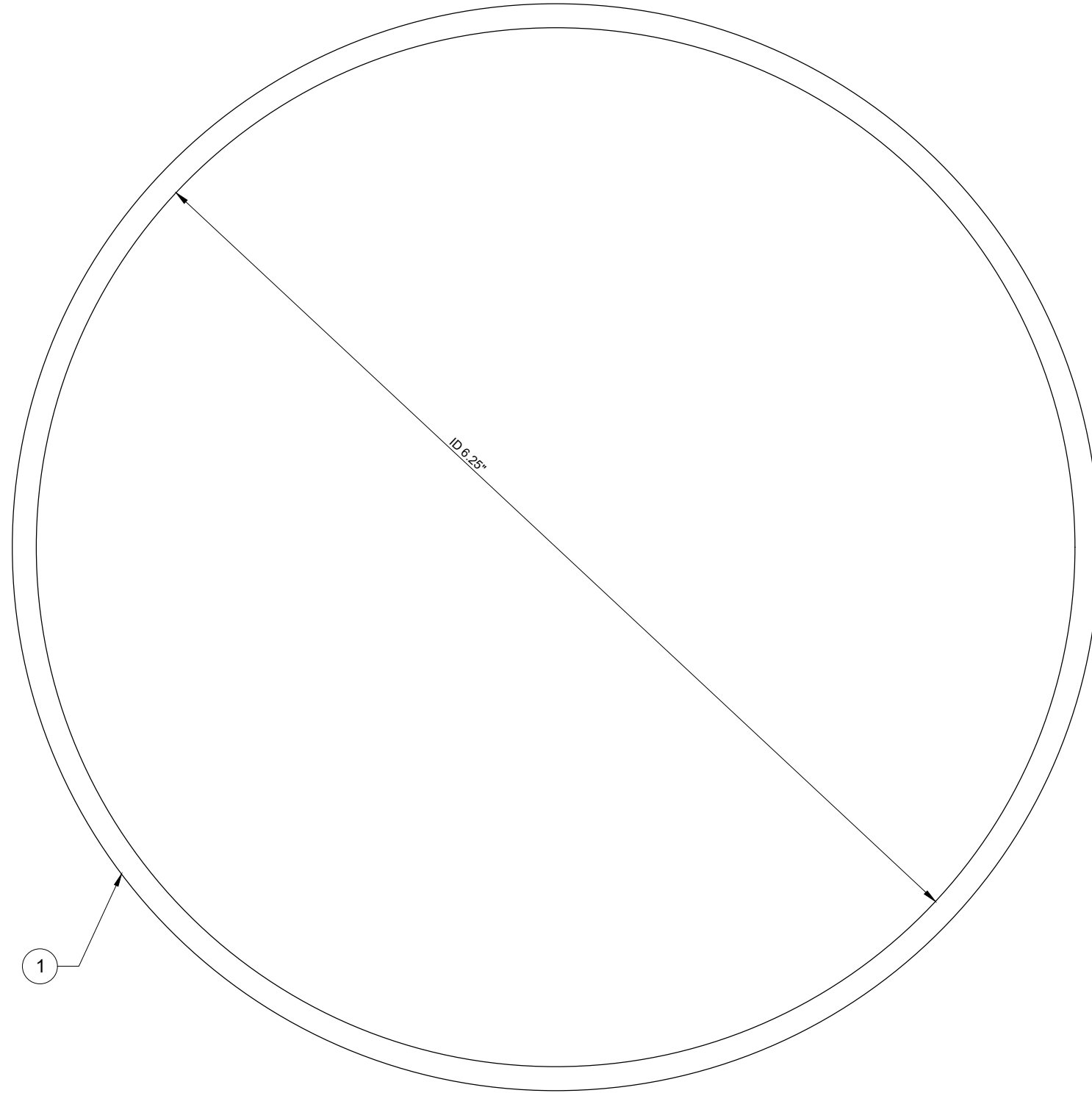
TOLERANCES
UNLESS OTHERWISE SPECIFIED
FRACTIONAL _____ ± 1/32
DECIMAL ____X ____ ± .030
 ____XX ____ ± .010
 ____XXX ____ ± .005
ANGULAR _____ ± 1/2°

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

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PROJECT INFORMATION:		APPROVED FOR FABRICATION	
SYSTEM DRAWING	6-7 ANCHORAGE CAP W/ 1/4" TOP PORT	CDL	ZX
PROJECT NO: SYSTEM	SCALE: NTS	BY	CHK
SHEET NO:	C734	NO	DATE
DESCRIPTION		26FEB2018	

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ITEM	QTY	DESCRIPTION	MATERIAL	SIZE	INVENTORY#
1	-	6-7 ANCHORAGE CAP O-RING	HNBR	6.25"x6.50"x0.125"	02WX5017

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PROJECT INFORMATION:

SYSTEM DRAWING

6-7 ANCHORAGE CAP O-RING

PROJECT NO: SYSTEM
SCALE: NTS

SHEET NO: **C717**

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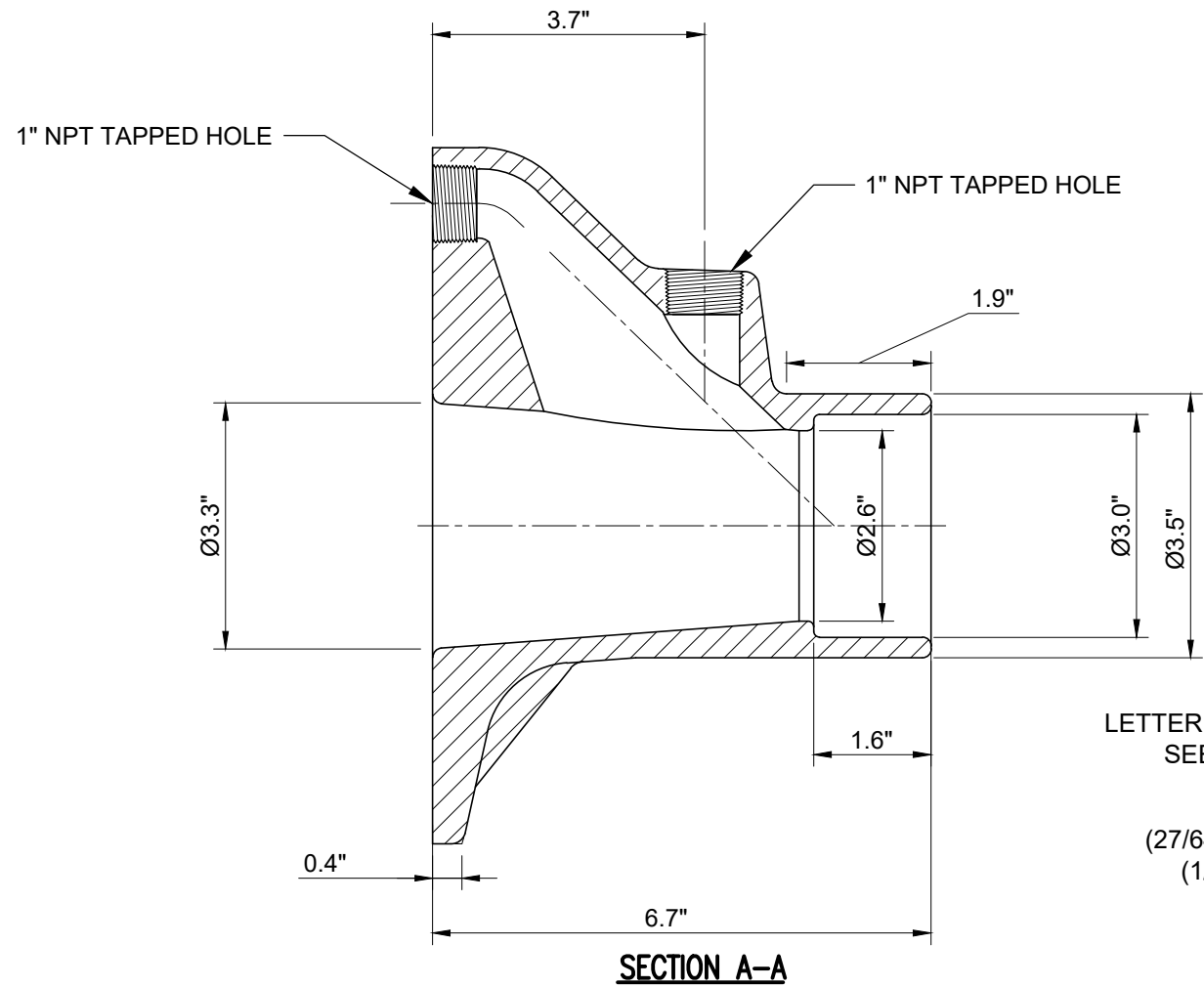
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DALLAS OFFICE
15000 TRINITY BLVD, SUITE 118
FORT WORTH, TX 76155

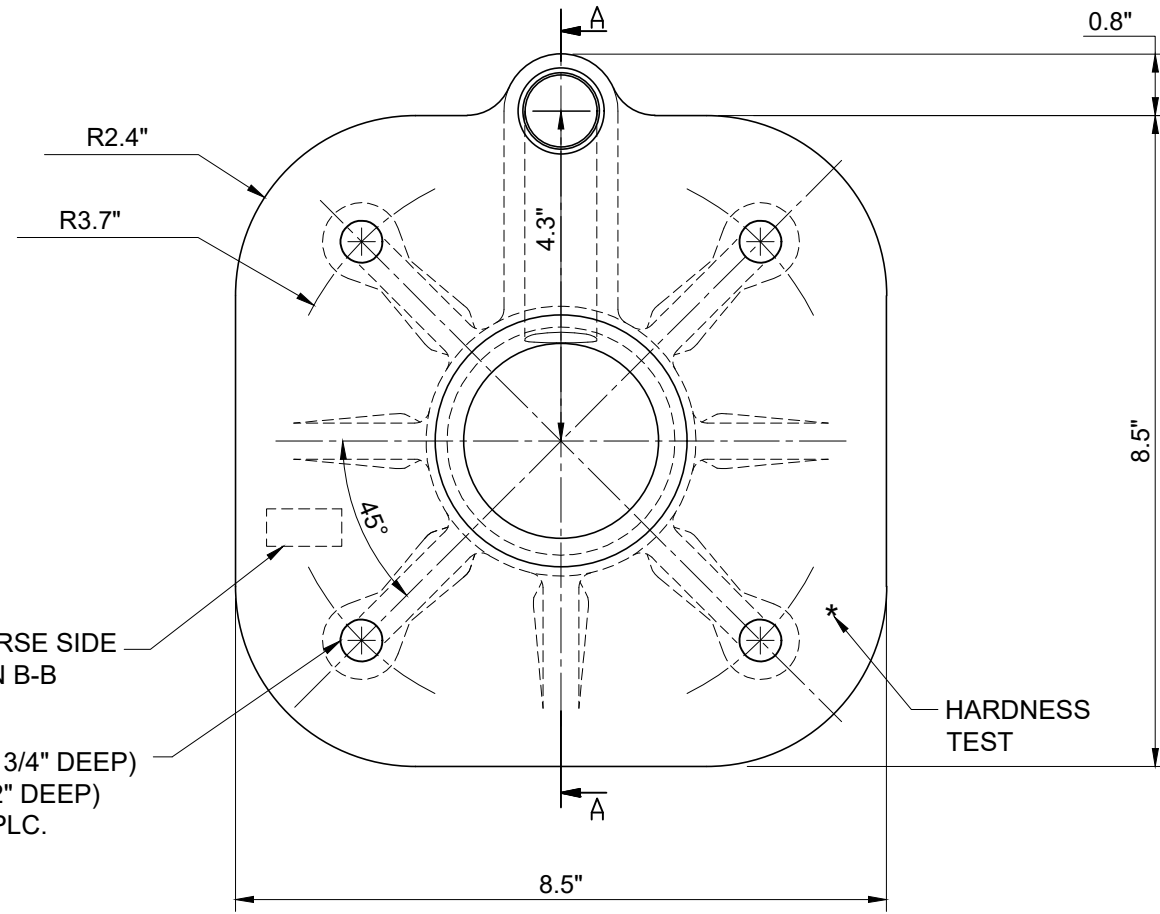
PHONE: (817) 545-4877
FAX: (817) 545-4827
WWW.VSL.NET

NO	FOR APPROVAL	BY	CDL	ZX	26FEB2018
NO	PART NUMBER UPDATED	BY	CDL	ZX	26FEB2018
NO	DESCRIPTION	BY	CDL	ZX	DATE

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



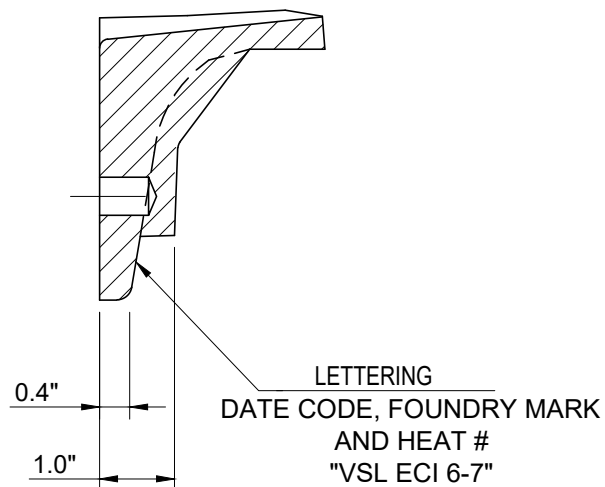
SECTION A-A



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

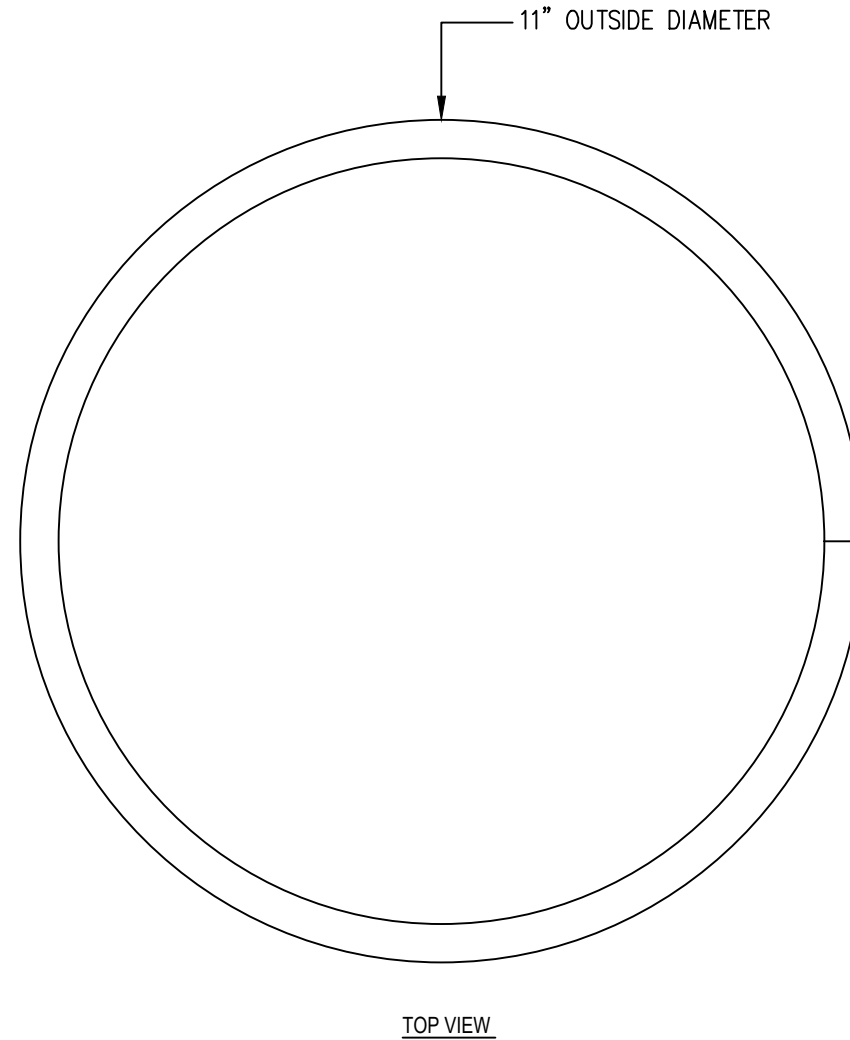
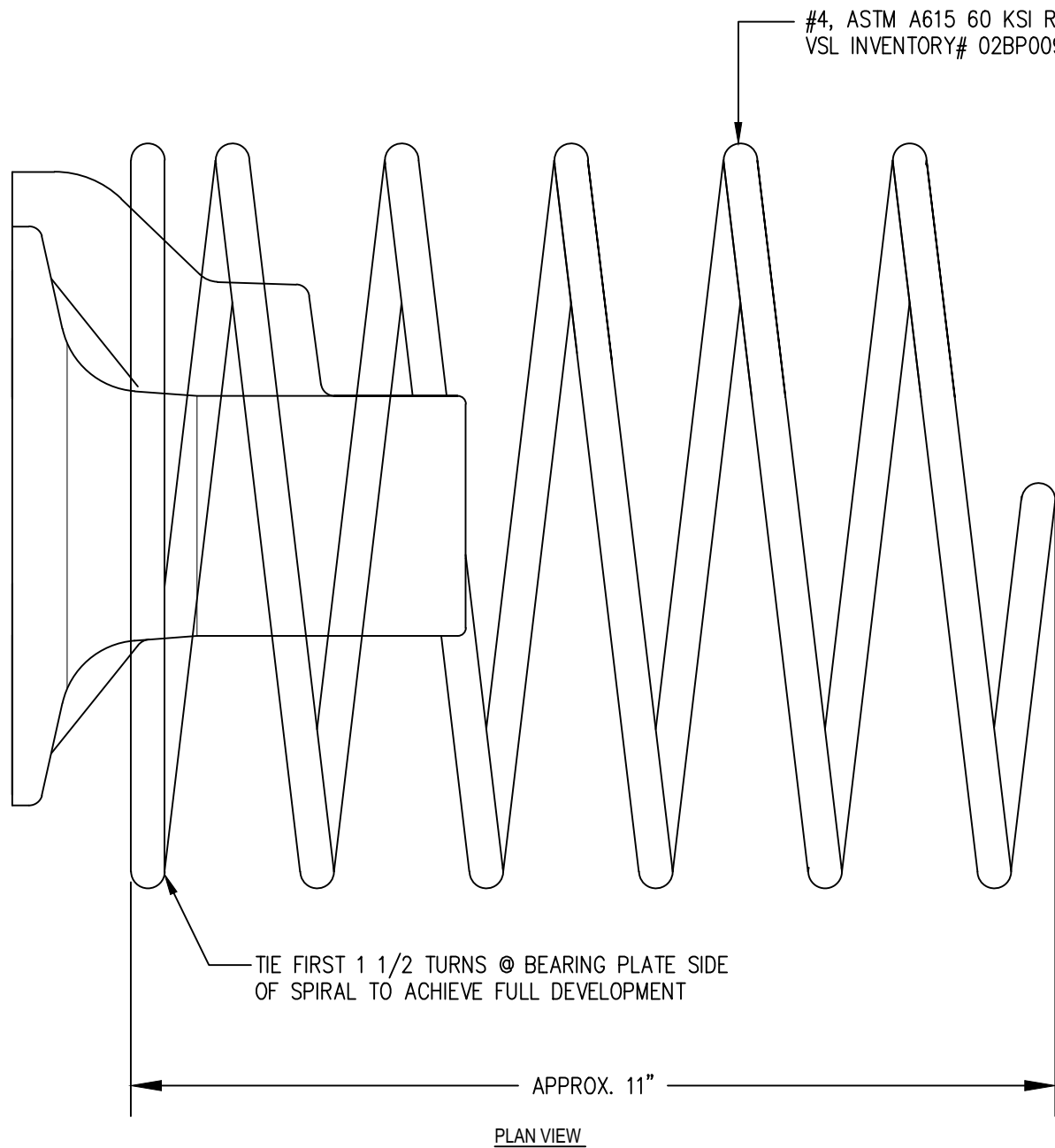
GENERAL NOTES

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

INVENTORY No. 02BP0036V (GALVANIZED)

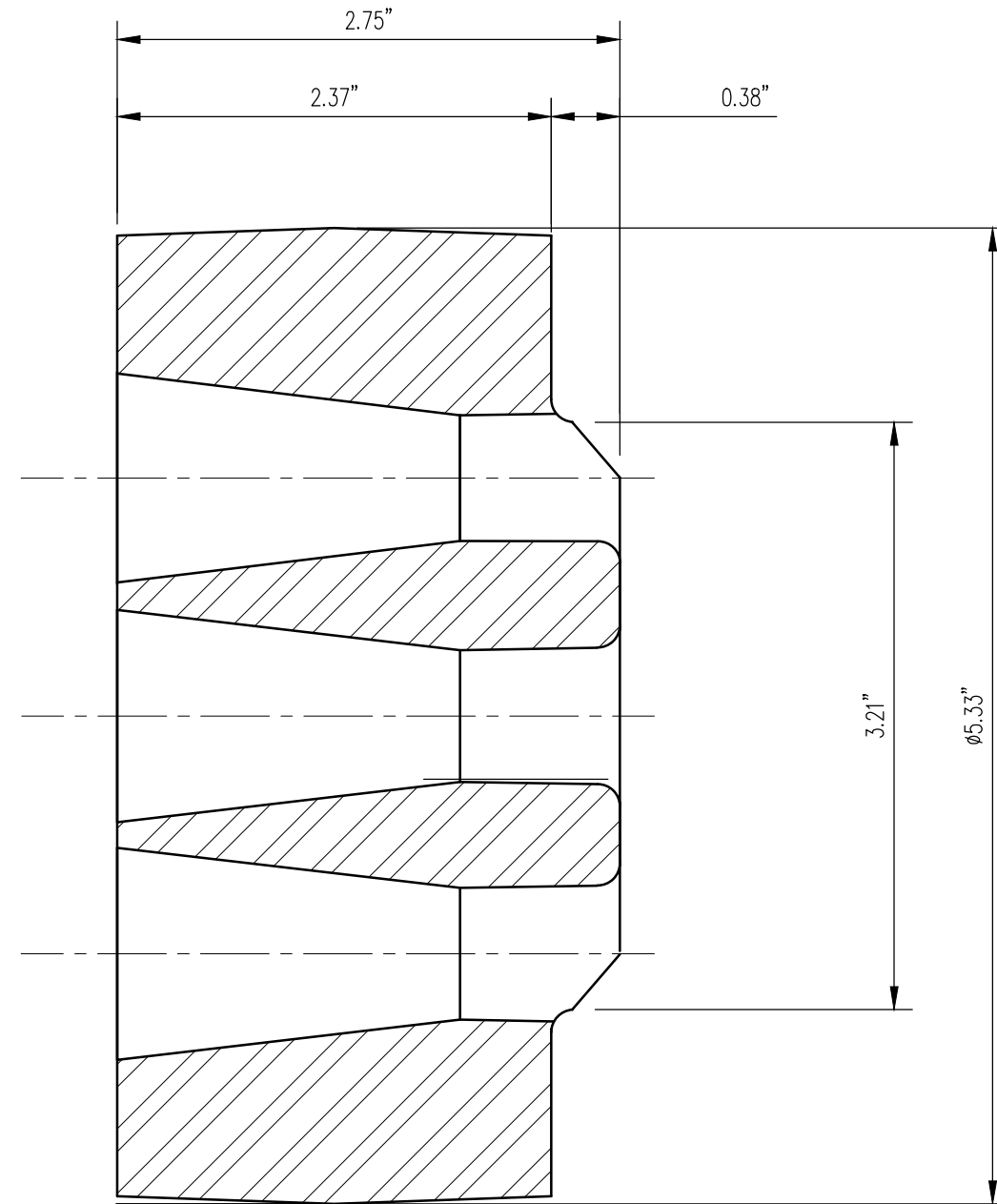
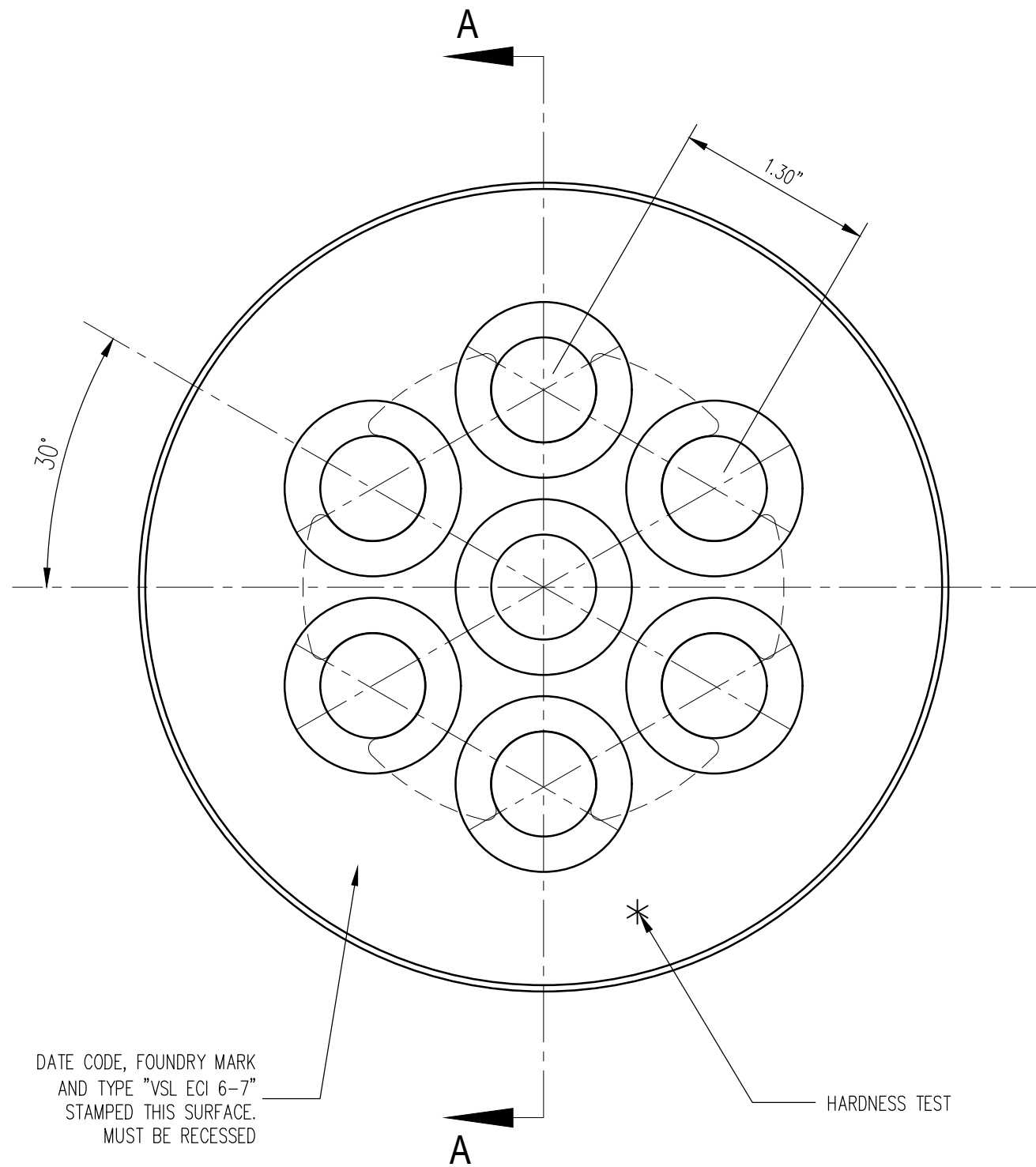
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PROJECT INFORMATION:		ISSUED FOR PRODUCTION		CDL	ZX	26FEB2018	
SYSTEM DRAWING		DESCRIPTION		BY	CHK	DATE	
ECI 6-7 BEARING PLATE W/ 1" NPT PORT		NO					
TITLE:		NO					
PROJECT NO: SYSTEM		NO					
SCALE: NTS		NO					
SHEET NO: C736		NO					
DALLAS OFFICE 15600 TRINITY BLVD., SUITE 118 PORT WORTH, TX 76158		DALLAS OFFICE 15600 TRINITY BLVD., SUITE 118 PORT WORTH, TX 76158		DALLAS OFFICE 15600 TRINITY BLVD., SUITE 118 PORT WORTH, TX 76158		DALLAS OFFICE 15600 TRINITY BLVD., SUITE 118 PORT WORTH, TX 76158	
STRUCTURAL TECHNOLOGIES A Structural Group Company		STRUCTURAL TECHNOLOGIES A Structural Group Company		STRUCTURAL TECHNOLOGIES A Structural Group Company		STRUCTURAL TECHNOLOGIES A Structural Group Company	
DALLAS, TX / WASHINGTON, DC / DENVER, CO / POMPANO BEACH, FL		DALLAS, TX / WASHINGTON, DC / DENVER, CO / POMPANO BEACH, FL		DALLAS, TX / WASHINGTON, DC / DENVER, CO / POMPANO BEACH, FL		DALLAS, TX / WASHINGTON, DC / DENVER, CO / POMPANO BEACH, FL	
PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET		PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET		PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET		PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET	
VSL		VSL		VSL		VSL	
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PROJECT NO:	SYSTEM	ISSUED FOR CONSTRUCTION	NO
SHEET NO:	C713	CDL ZK	BY CHK
TITLE:	ECI 6-7 SPIRAL	DATE	26FEB2018
SCALE:	NTS	DESCRIPTION	



SECTION A-A

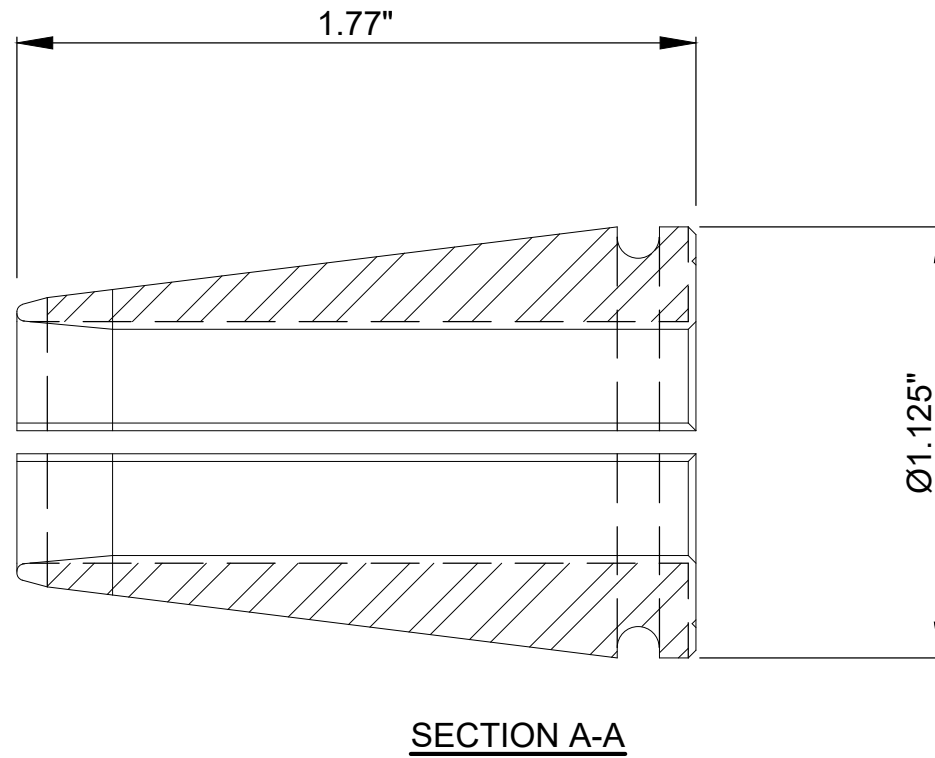
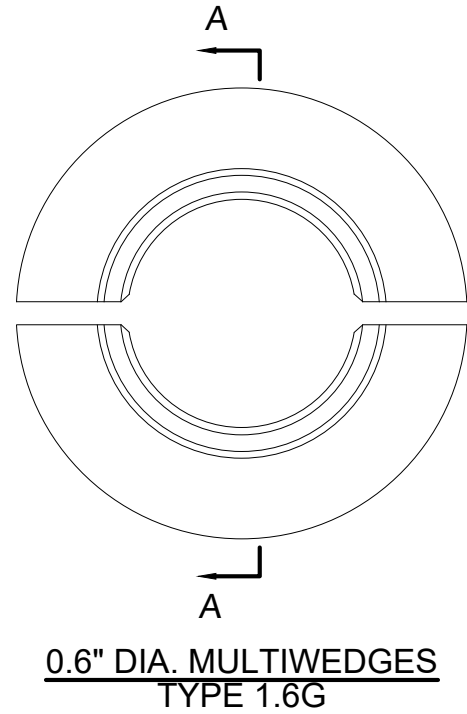
ANCHORHEAD ECI 6-7

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

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<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p> <p>PROJECT NO: SYSTEM</p> <p>SHEET NO: C218</p>	<p>5</p>	<p>TITLE BLOCK UPDATED</p>	<p>CDL</p>	<p>ZX</p>	<p>26FEB2018</p>
	<p>4</p>	<p>UPDATED TITLE BLOCK</p>	<p>SK</p>	<p>ZX</p>	<p>09JAN2015</p>
	<p>3</p>	<p>UPDATED BORDER</p>	<p>GDH</p>		<p>29APR2004</p>
	<p>2</p>	<p>ADDED INVENTORY NUMBER</p>	<p>TKW</p>		<p>01JAN1989</p>
	<p>NO</p>	<p>DESCRIPTION</p>	<p>BY</p>	<p>CHK</p>	<p>DATE</p>

structural TECHNOLOGIES
A Technical Group Company

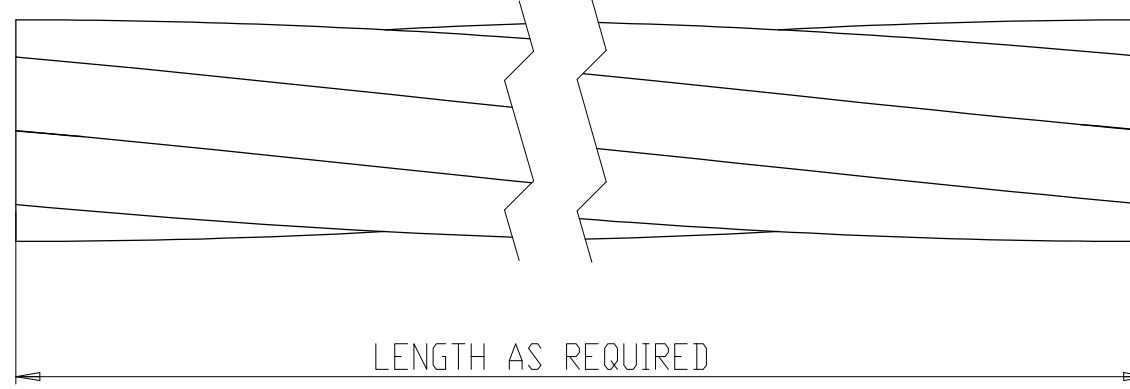
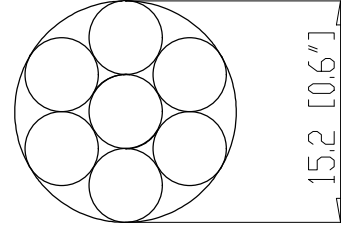
Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

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

VSL

PHONE: (817) 545-4877
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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



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STRUCTURAL TECHNOLOGIES, LLC
DALLAS OFFICE
15600 TRINITY BLVD., SUITE 118
FORT WORTH, TX 76156
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NO

NO

TITLE BLOCK UPDATED

FOR FDOT

CDL ZX

MM

BY

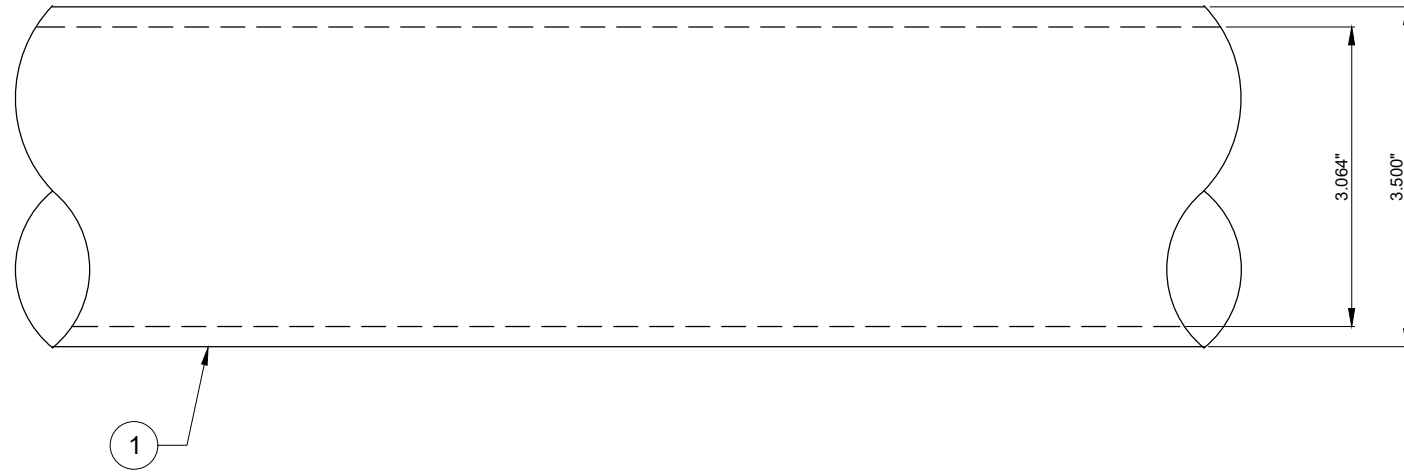
CHK

DATE

26FEB2018

DATE

04FEB2010



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

SCALE:
NTS

SHEET NO:
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

VSL
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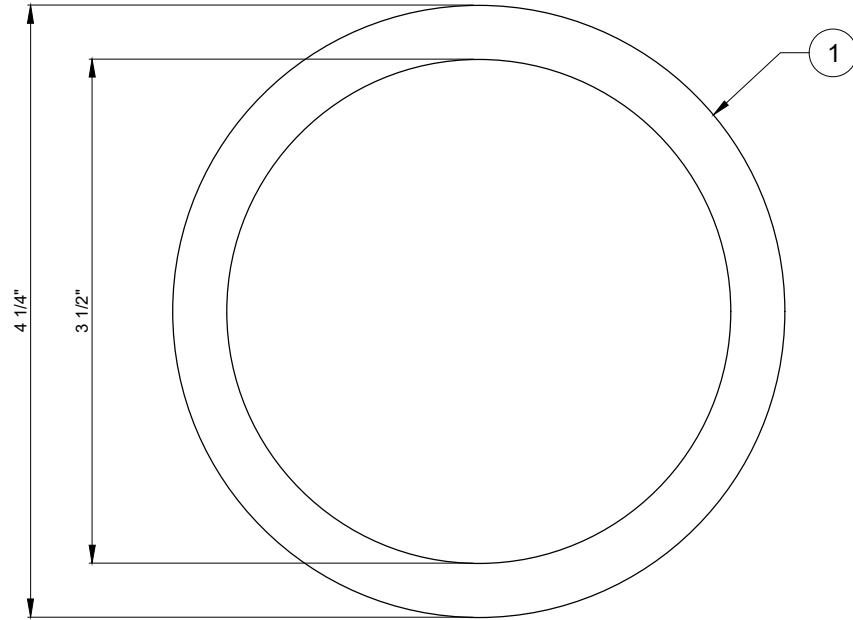
NO

FOR APPROVAL
DESCRIPTION

CDL ZX

BY CHK

DATE
26FEB2018



END VIEW



SIDE VIEW

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

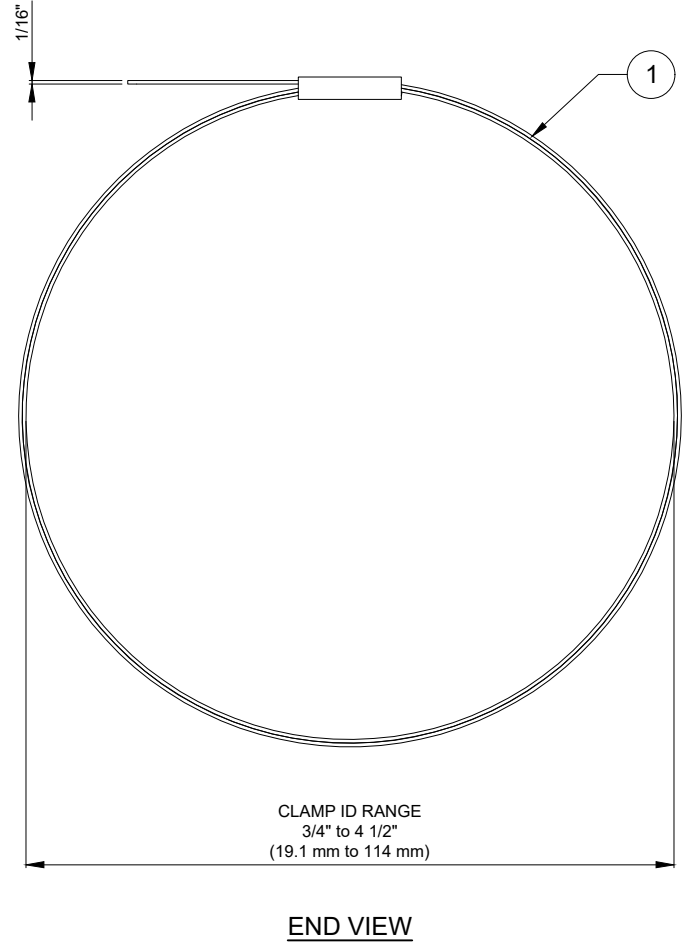
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PROJECT NO:	1	NO	NO
SHEET NO:		CDL	ZX
SYSTEM DRAWING		BY	CHK
TITLE:		DESCRIPTION	
3" ELASTOMER SLEEVE		CDL	ZX
SCALE:	NTS	BY	CHK
		DATE	26FEB2018
		DATE	

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

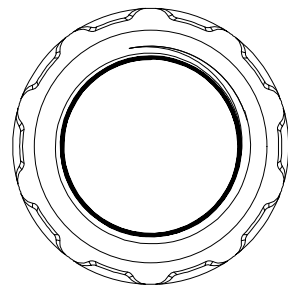
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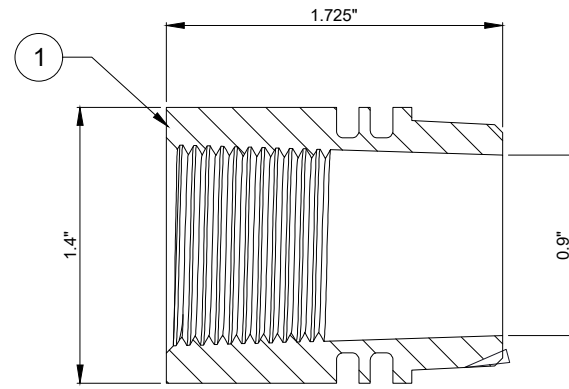
STRUCTURAL TECHNOLOGIES, LLC
DALLAS OFFICE
15000 TRINITY BLVD, SUITE 118
FORT WORTH, TX 76156

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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

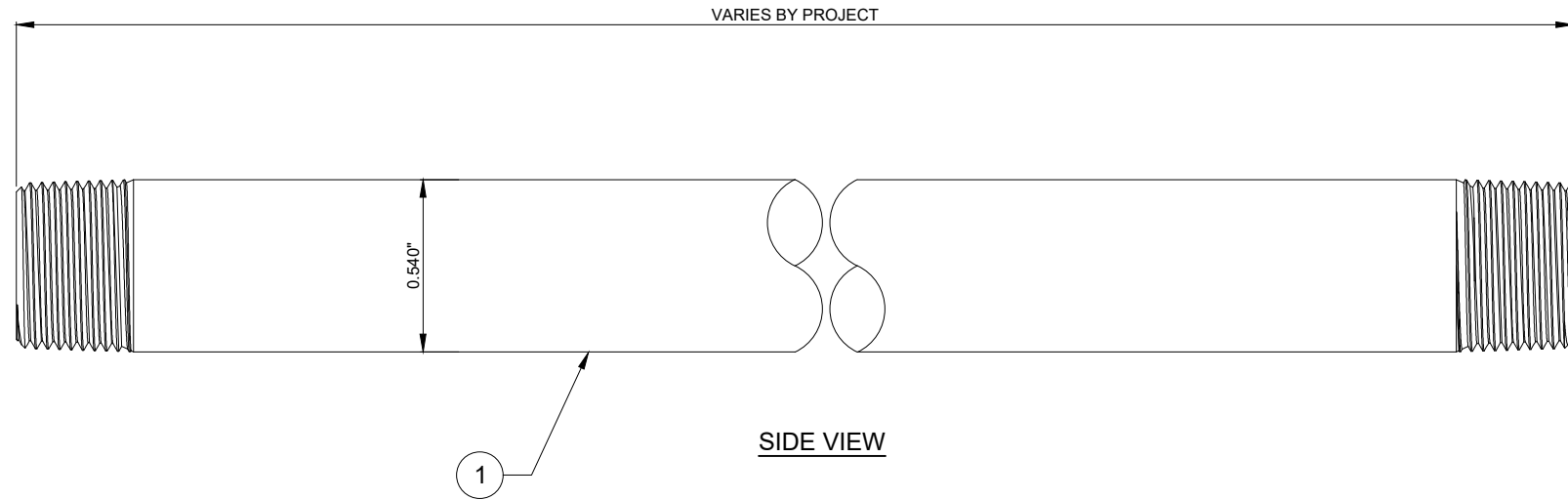
ZX

CHK

26FEB2018

DATE

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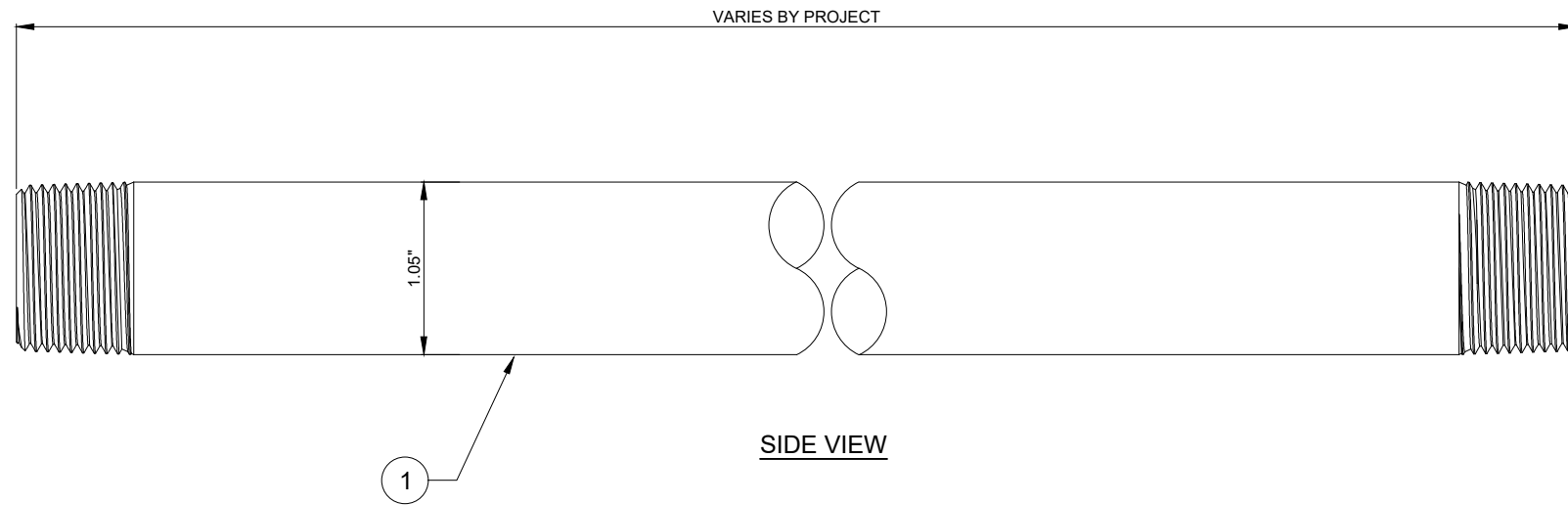


ITEM	QTY	DESCRIPTION	MATERIAL
1	-	1/4" NPT STEEL NIPPLE	SCH 40 STEEL

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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	CDL	ZX
SHEET NO:		BY	CHK
SYSTEM DRAWING		FIRST ISSUE	
TITLE:		DESCRIPTION	
1/4" NPT STEEL NIPPLE			
SCALE:		DATE	
NTS		26FEB2018	
C749			

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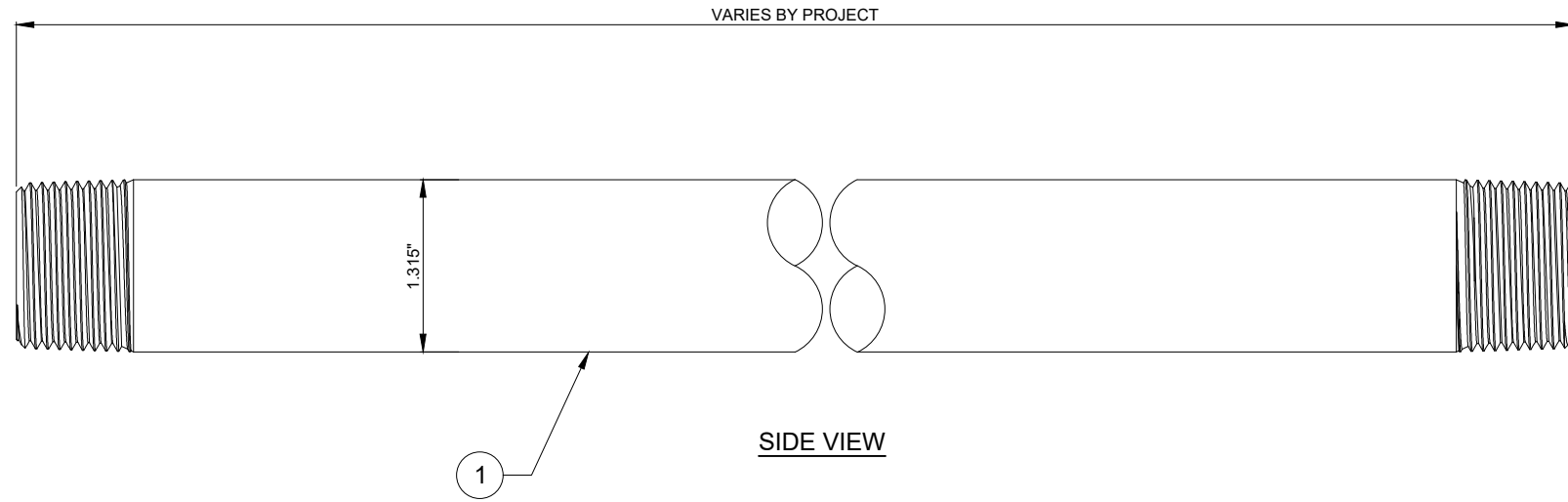


ITEM	QTY	DESCRIPTION	MATERIAL
1	-	3/4" NPT NIPPLE	SCH 40 STEEL

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PROJECT NO:	1	CDL	ZX
SHEET NO:		BY	CHK
TITLE:		FIRST ISSUE	
SCALE:		NO	
DESCRIPTION:		NO	
SYSTEM DRAWING		26FEB2018	
3/4" NPT STEEL NIPPLE		DATE	

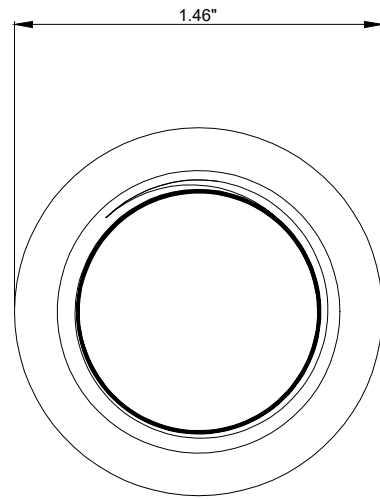
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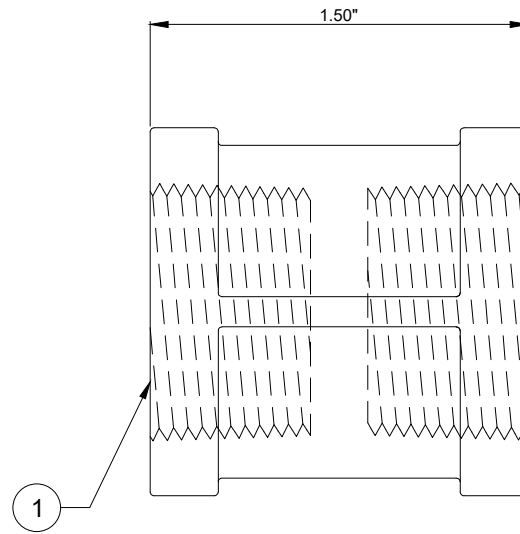
ITEM	QTY	DESCRIPTION	MATERIAL
1	-	1" NPT STEEL NIPPLE	SCH 40 STEEL

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PROJECT NO:	1	CDL	ZX
SHEET NO:	C725	BY	CHK
TITLE:		DESCRIPTION	
1" NPT STEEL NIPPLE		FIRST ISSUE	
SCALE:		NO	
NTS		26FEB2018	
		DATE	



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 NO:	1	CDL	ZX
SHEET NO:		BY	CHK
TITLE:		FIRST ISSUE	
SCALE:		NO	
DESCRIPTION:		NO	
DATE:		26FEB2018	

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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

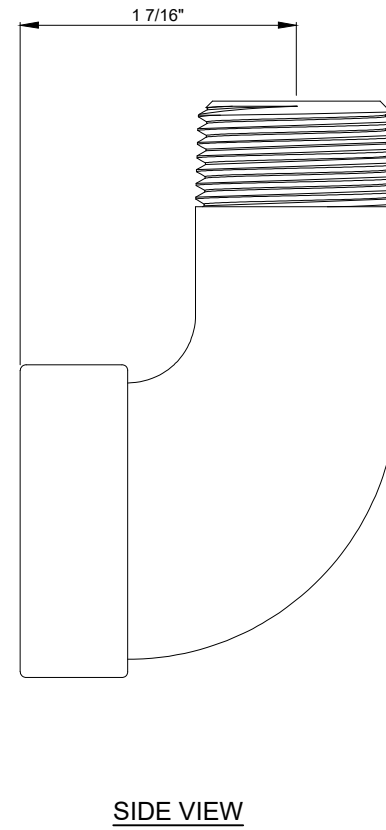
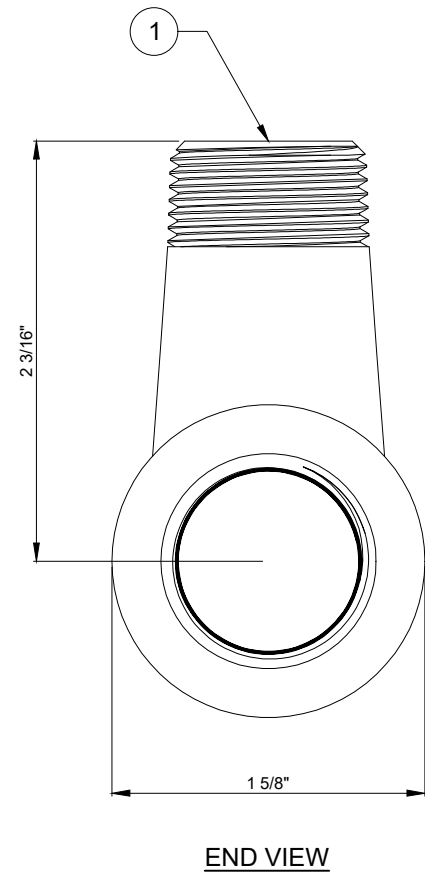
SYSTEM DRAWING

3/4" NPT F/F COUPLER

SCALE: NTS

C728

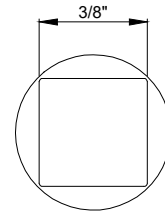
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01954



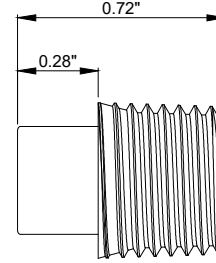
THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION 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.

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PROJECT NO:	1	CDL	ZX
SHEET NO:	C750	BY	CHK
TITLE:	3/4" FNPT X MNPT STEEL ELBOW	NO	DATE
SCALE:	NTS	DESCRIPTION	26FEB2018
SYSTEM DRAWING		FIRST ISSUE	

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



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

TITLE:
1/4" NPT STEEL PLUG

PROJECT NO:

SCALE:
NTS

SHEET NO:

C747

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NO

FIRST ISSUE

DESCRIPTION

CDL

BY

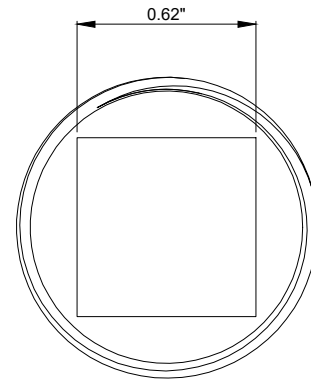
ZX

CHK

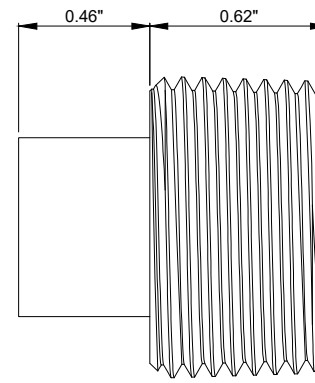
26FEB2018

DATE

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

TITLE:
3/4" NPT STEEL PLUG

PROJECT NO:

SCALE:
NTS

SHEET NO:

C748

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NO

FIRST ISSUE

DESCRIPTION

CDL

BY

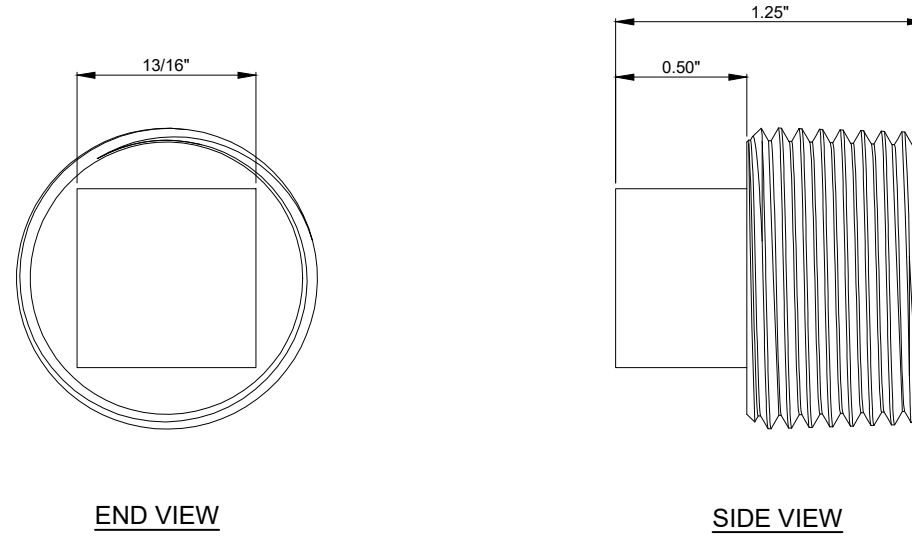
ZX

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.

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PROJECT NO:	1	CDL	ZX
SHEET NO:	C754	BY	CHK
TITLE:		FIRST ISSUE	
SCALE:		NO	
DESCRIPTION:		NO	
SYSTEM DRAWING		26FEB2018	
1" NPT STEEL PLUG		DATE	

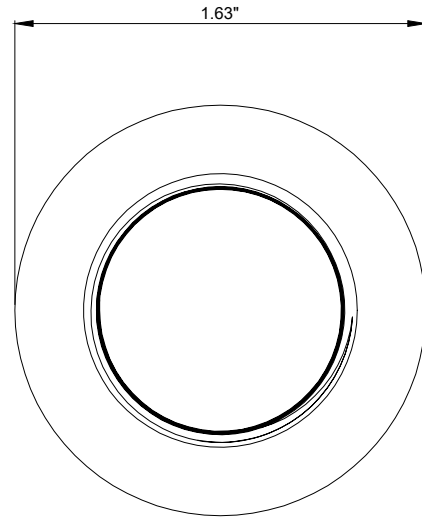
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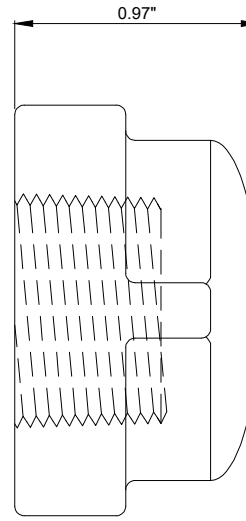
PHONE: (817) 545-4877
FAX: (817) 545-4827
WWW.VSL.NET

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

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



END VIEW

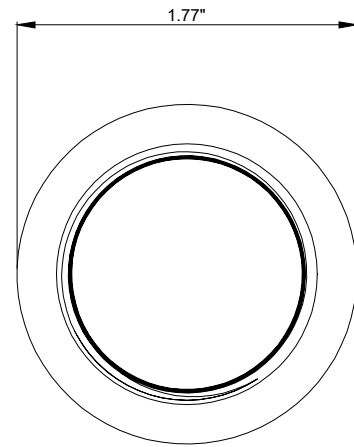


SIDE VIEW

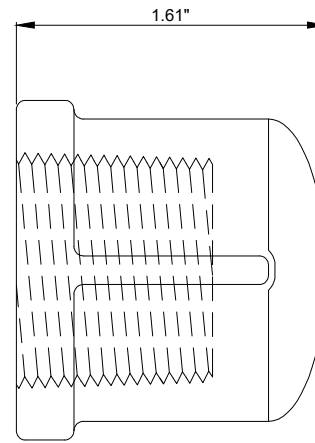
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PROJECT NO:	1	CDL	ZX
SHEET NO:	C724	BY	CHK
TITLE:	3/4" NPT STEEL CAP	NO	DATE
SCALE:	NTS	DESCRIPTION	26FEB2018
SYSTEM DRAWING		NO	DATE

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END VIEW



SIDE VIEW

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

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PROJECT INFORMATION:

SYSTEM DRAWING

1" NPT STEEL CAP

PROJECT NO:

SCALE:

NTS

SHEET NO:

C727

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DALLAS OFFICE
15600 TRINITY BLVD, SUITE 118
FORT WORTH, TX 76156
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FAX: (817) 545-4827
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NO

FIRST ISSUE

DESCRIPTION

CDL

ZX

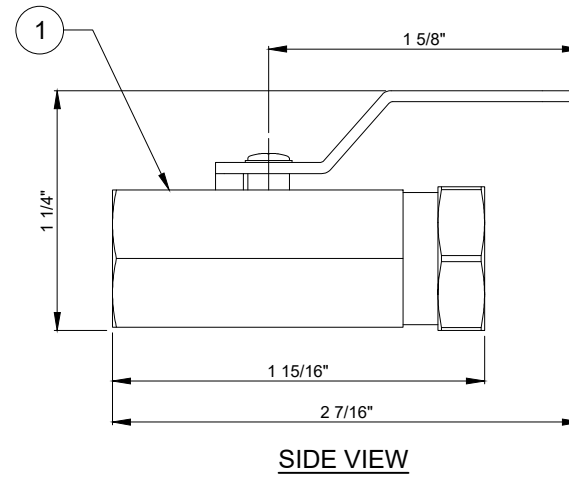
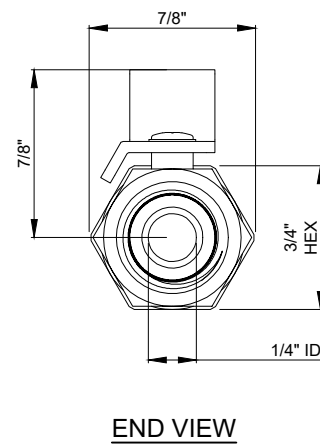
BY

CHK

DATE

26FEB2018

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1/4" F/F NPT 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924



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

TITLE:
1/4" F/F NPT 1/4 TURN BALL VALVE

PROJECT NO:

SCALE:
NTS

SHEET NO:

C744

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 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

NO

FIRST ISSUE

DESCRIPTION

CDL

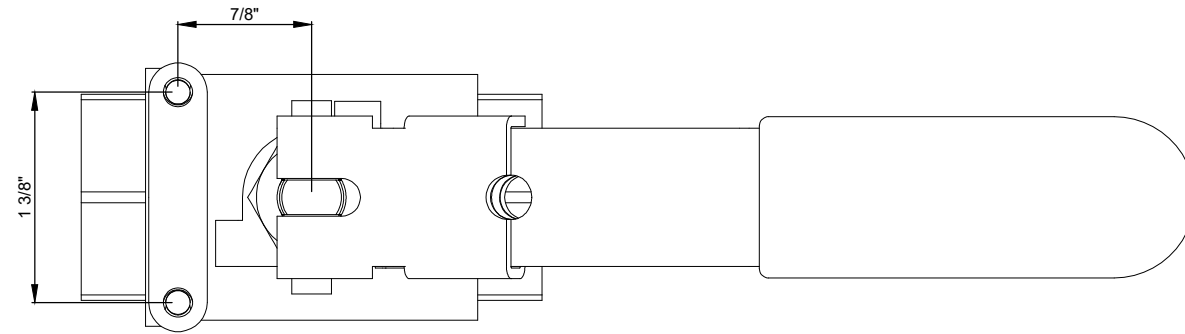
ZX

BY

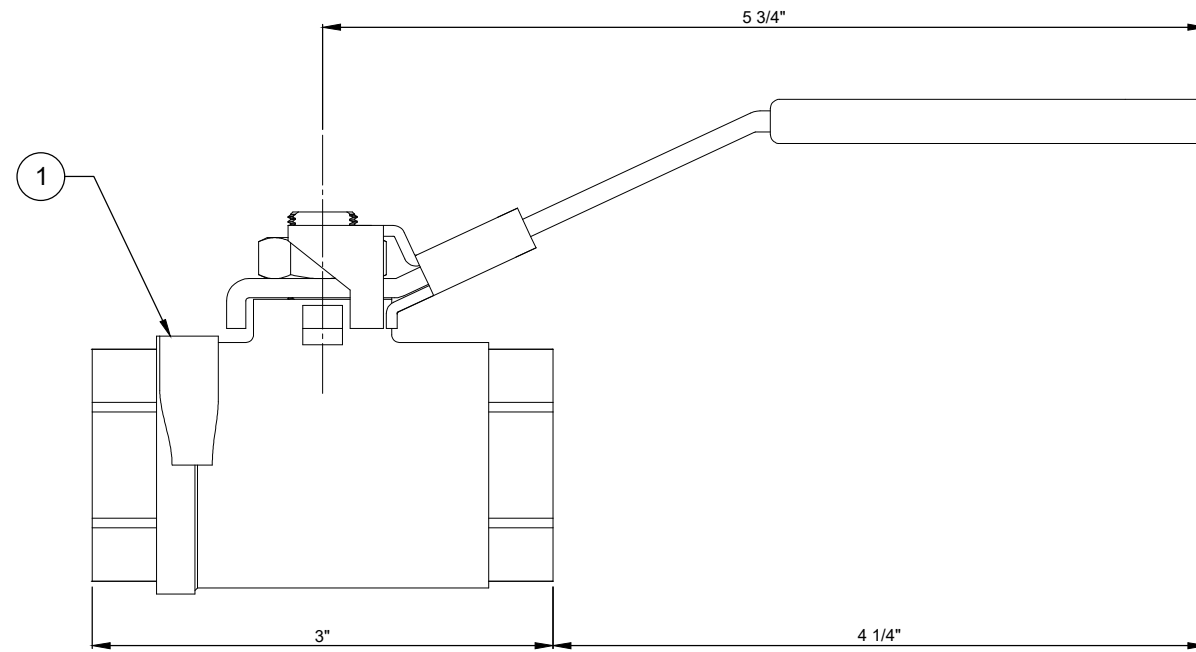
CHK

DATE

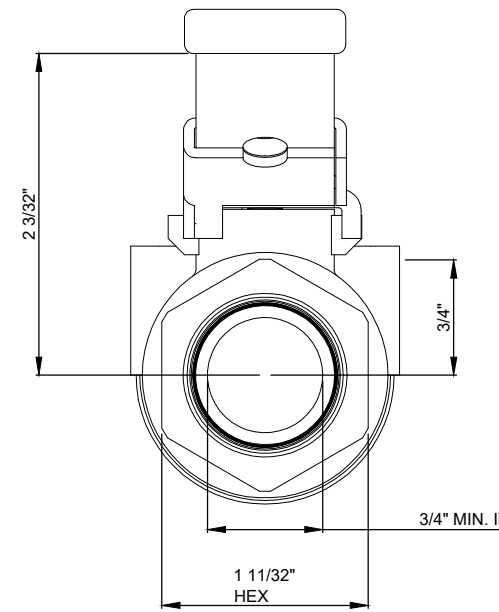
26FEB2018



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

PROJECT NO: -

SHEET NO: -

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

SCALE:
NTS

C745

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 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

NO

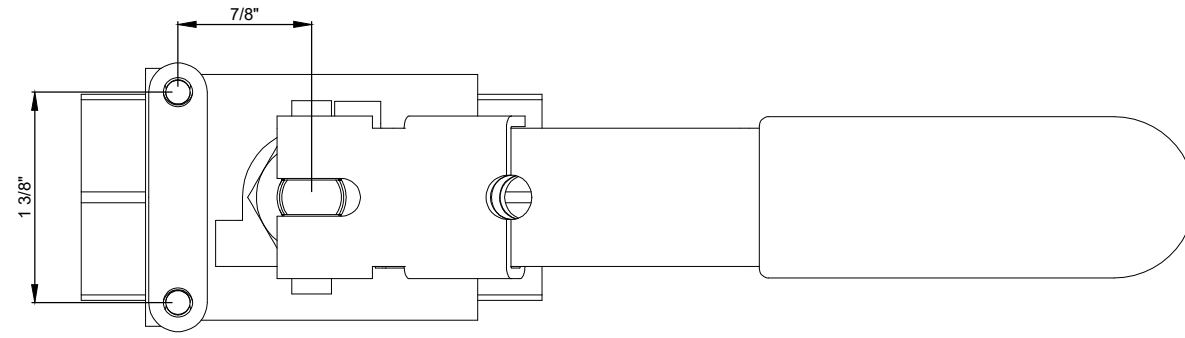
FIRST ISSUE

DESCRIPTION

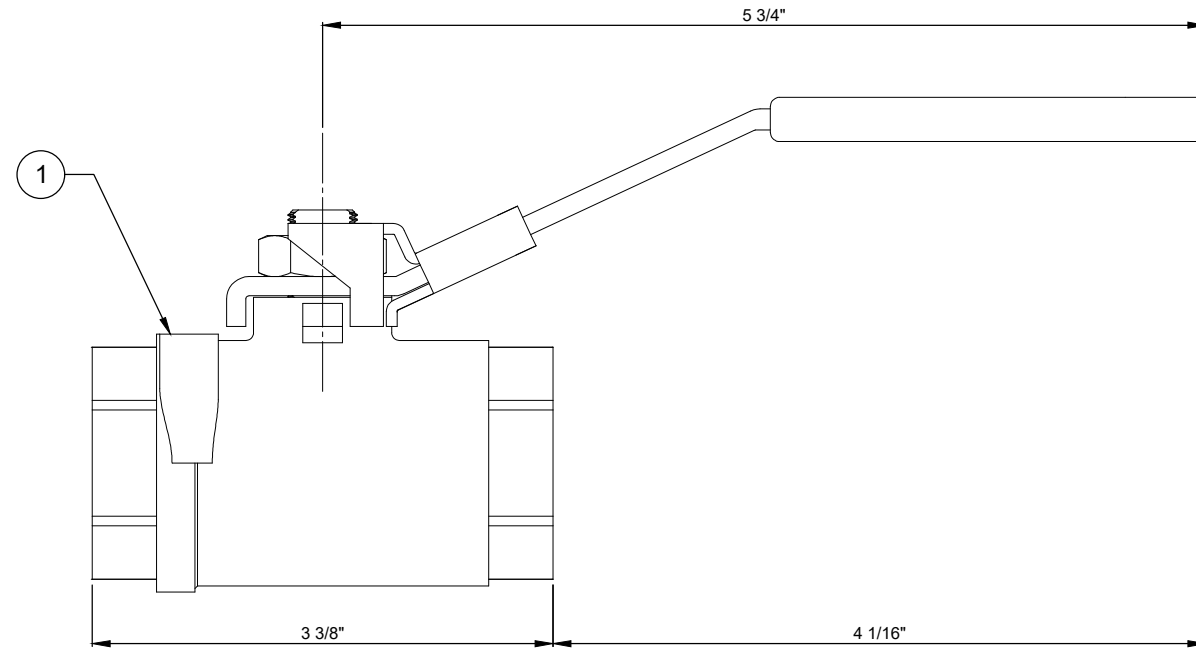
BY

CHK

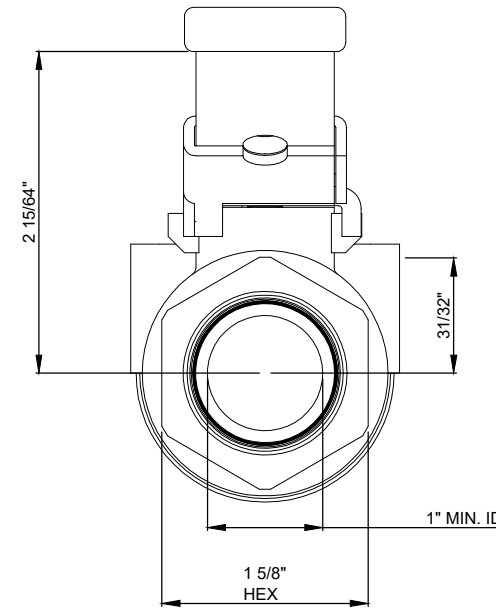
DATE



TOP VIEW



SIDE VIEW



END VIEW

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

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.

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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

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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