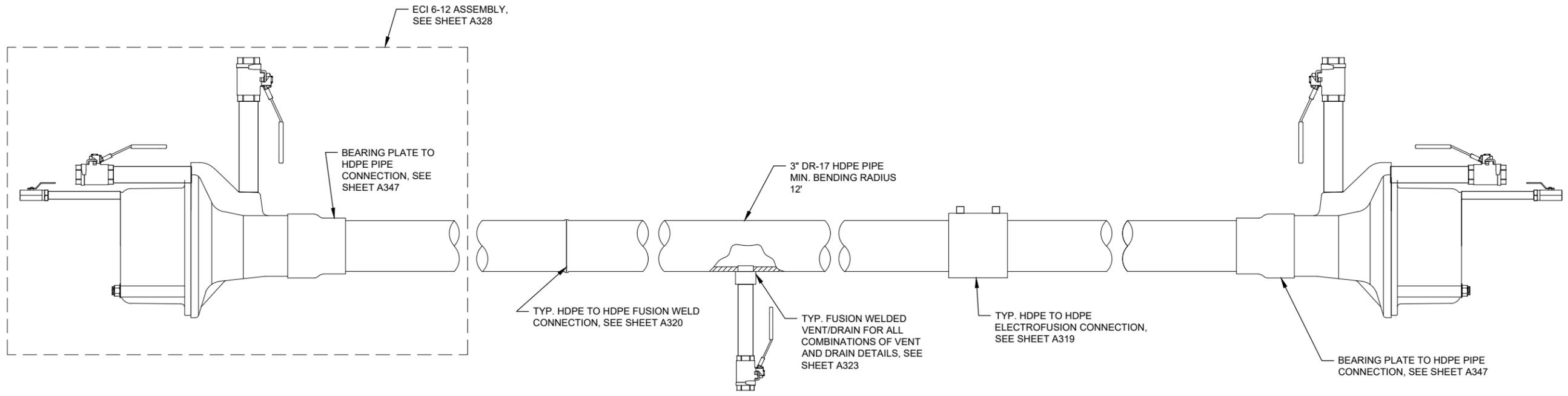


ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal

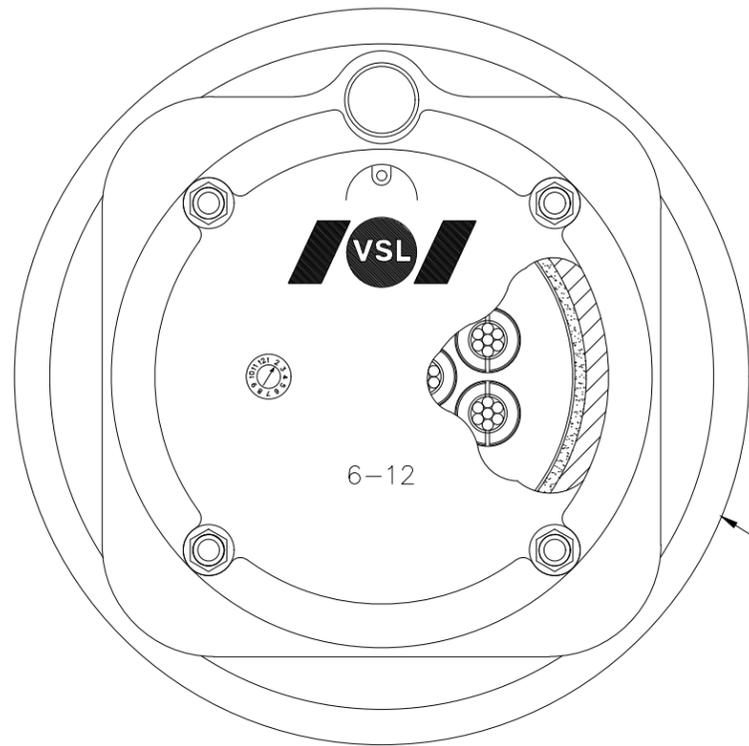


OVERALL ASSEMBLY

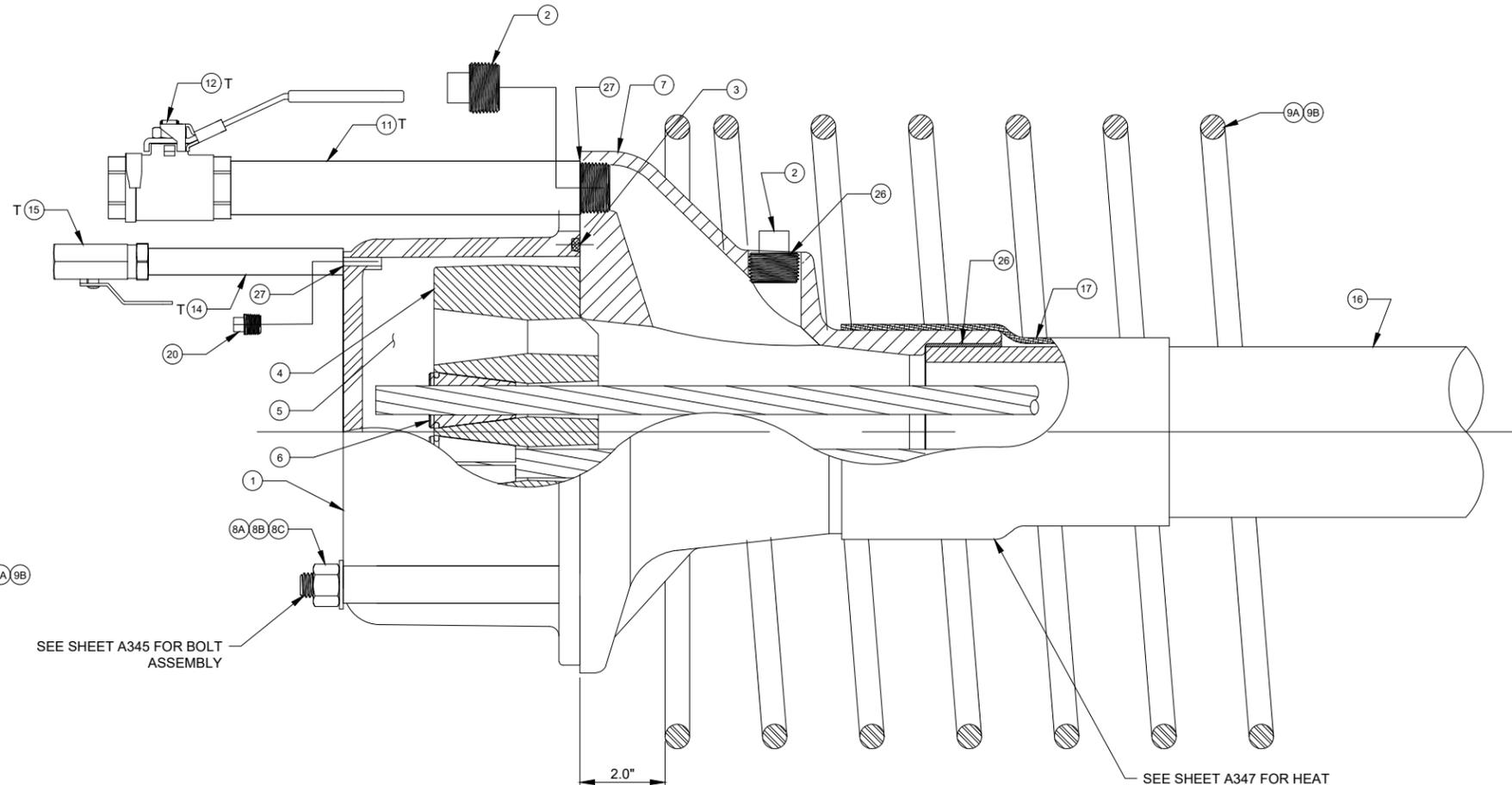
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PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS STRICTLY PROHIBITED. THIS SHEET, IT 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	FOR APPROVAL	NO
SHEET NO:	A329	CDL	ZX
TITLE:	ECI 6-12 OVERALL ASSEMBLY WITH FLEXIBLE FILLER	BY	CHK
SCALE:	NTS	DESCRIPTION	DATE
			14MAR2018

ELECTRONIC FILE LOCATION: I:\VSL\System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



END VIEW



ELEVATION VIEW

SEE SHEET A345 FOR BOLT ASSEMBLY

SEE SHEET A347 FOR HEAT SHRINK SLEEVE ASSEMBLY

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

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	6-12 ANCHORAGE CAP W/ 1/4" NPT FRONT PORT	ABS	02GC61202
2	2	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958
3	1	6-12 ANCHORAGE CAP O-RING	HNBR	02WX5020
4	1	ECI 6-12 ANCHOR HEAD	A536 GR80-55-06	02AH0037
5	-	FLEXIBLE FILLER	FDOT APL	-
6	12	1.6G WEDGE .6 1.77 W/GROOVE	AISI 11-L-17/12-L-14	02WG0008
7	1	ECI 6-12 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR80-55-06	02BP0037V
8A	1 SET	1/2"-13 THREADED ROD X 6 1/2"	(316L) STAINLESS	02WX5021D
8B	1 SET	1/2"-13 NUT	(316L) STAINLESS	02WX5021D
8C	1 SET	1/2" WASHER	(316L) STAINLESS	02WX5021D
9A	1	SPIRAL ECI 6-12 (#5 13" DIA., 7 TURNS, 2" PITCH)	A615 GR 60	02BP0096
9B	1	SPIRAL ECI 6-12 (#4 13" DIA., 7 TURNS, 2" PITCH)	A615 GR 60	02BP0097
11	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	CANUSA KLNN-90 WS BK/L X 9" HEAT SHRINK SLEEVE	POLYOLEFIN	02DT0513
20	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
26	-	BONDUI	-	-
27	-	SILICONE GREASE	-	-

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

- PRE-ASSEMBLE BEARING PLATE WITH PIPE AND HEAT SHRINK PER VSL ANCHORAGE PRE-ASSEMBLY PROCEDURE SHOWN IN SHEET A347. INSTALL INTO FINAL POSITION PER CONSTRUCTION DRAWINGS.
- 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 BONDUI OR SIMILAR (BY OTHERS).
- 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 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 $\pm 7\%$.
- 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.

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WWW.VSL.NET

14MAR2018

CDL ZX

BY CHK

DATE

ISSUED FOR CONSTRUCTION

DESCRIPTION

NO

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PROJECT INFORMATION:

SYSTEM DRAWING

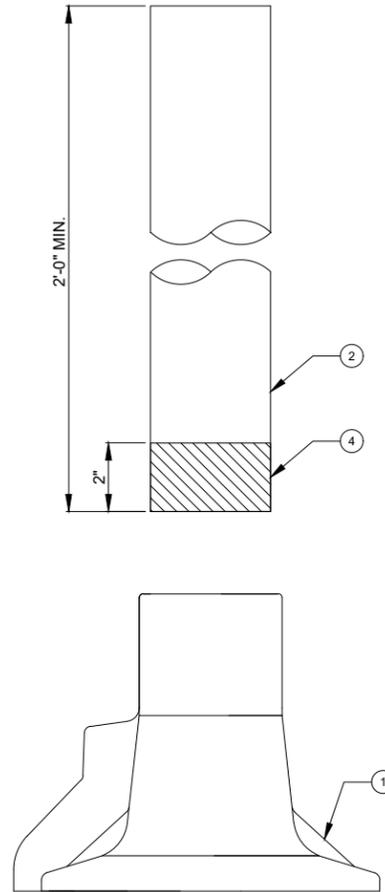
PROJECT NO: SYSTEM

SHEET NO: A328

TITLE: ECI 6-12 ASSEMBLY WITH FLEXIBLE FILLER

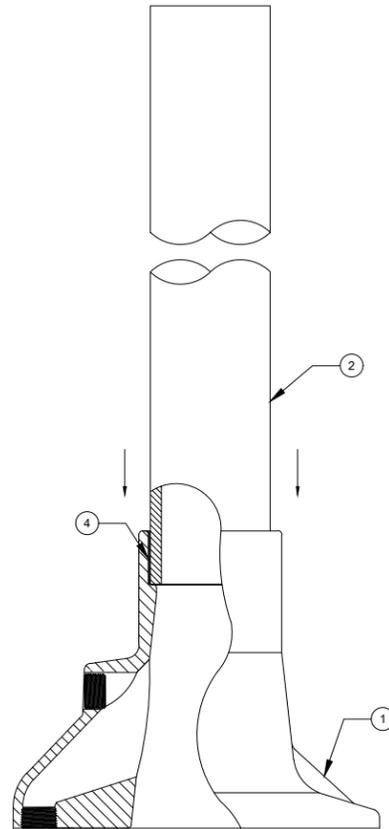
SCALE: NTS

ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



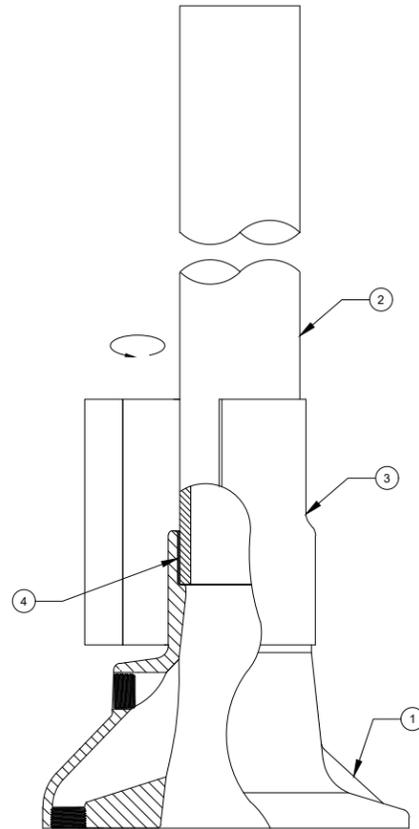
STEP 1

- STEP 1**
1. ORIENT BEARING PLATE IN VERTICAL POSITION.
 2. APPLY BONDUIT AROUND OUTSIDE OF END OF PIPE (2" MIN.) THAT WILL BE INSERTED INTO BEARING PLATE. TOTAL PIPE LENGTH SHOULD BE 2'-0" MIN.



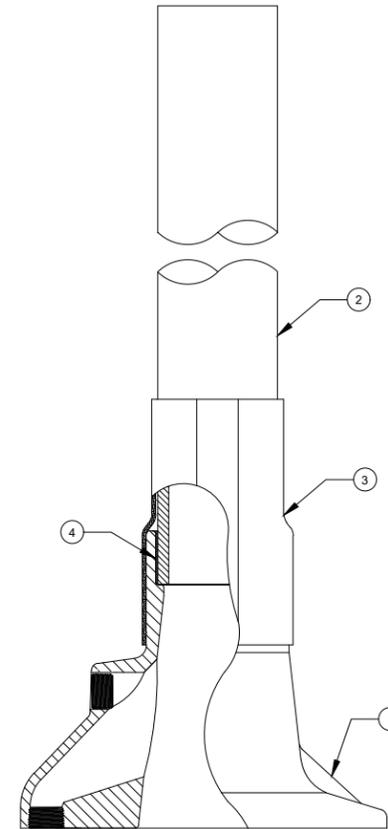
STEP 2

- STEP 2**
1. INSERT PIPE INTO BEARING PLATE.
 2. WAIT MIN. 1 HOUR FOR BONDUIT TO SET.



STEP 3

- STEP 3**
1. AFTER BONDUIT HAS SET FOR 1 HOUR, WRAP HEAT SHRINK SLEEVE AROUND BEARING PLATE AND PIPE AS SHOWN.



STEP 4

- STEP 4**
1. FOLLOW HEAT SHRINK INSTALLATION INSTRUCTIONS (PROVIDED AS A SEPARATE APPENDIX).

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	ECI 6-12 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR80-55-06	02BP0037V
2	1	3" DR-17 PIPE	HDPE	-
3	1	CANUSA KLNN-90 WS BK/L X 9" HEAT SHRINK SLEEVE	POLYOLEFIN	02DT0513
4	-	BONDUIT	-	-

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PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO: SYSTEM

SHEET NO: A347

TITLE: ECI 6-12 HEAT SHRINK SLEEVE ASSEMBLY

SCALE: NTS

ISSUED FOR CONSTRUCTION

NO

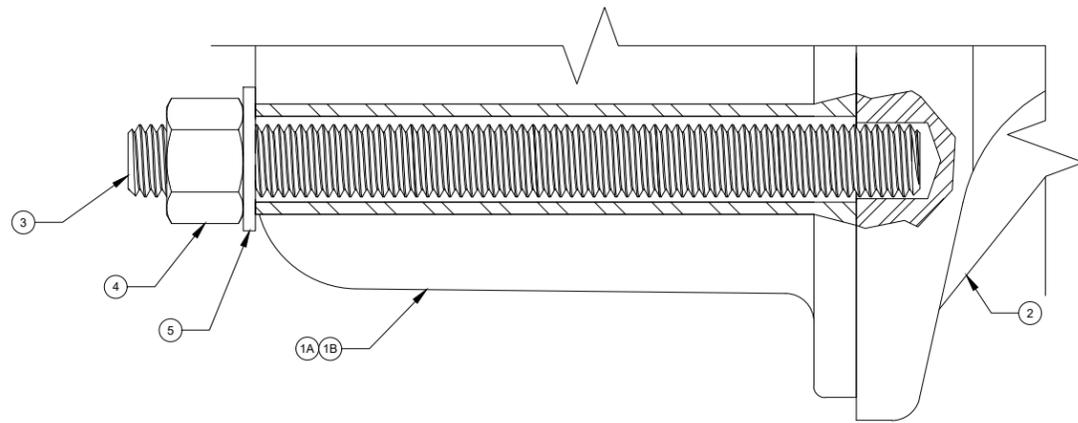
CDL ZX

BY CHK

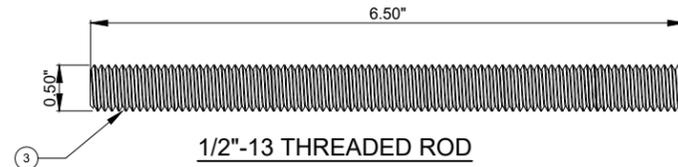
14MAR2018

DATE

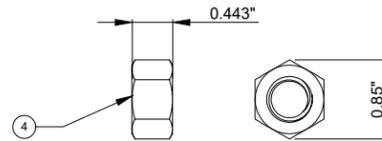
ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



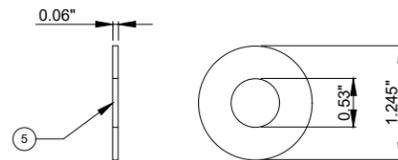
CAP TO BEARING PLATE BOLTED ASSEMBLY



1/2"-13 THREADED ROD



1/2"-13 NUT



1/2" WASHER

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1A	1	6-12 ANCHORAGE CAP W/ 1/4" NPT FRONT PORT	ABS	02GC61202
1B	1	6-12 ANCHORAGE CAP W/ 1/4" NPT TOP PORT	ABS	02GC61203
2	1	ECI 6-12 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR 80-55-06	02BP0037V
3	1 SET	1/2"-13 THREADED ROD X 6 1/2"	(316L) STAINLESS	02WX5021D
4	1 SET	1/2"-13 NUT	(316L) STAINLESS	02WX5021D
5	1 SET	1/2" WASHER	(316L) STAINLESS	02WX5021D

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PROJECT INFORMATION:

SYSTEM DRAWING

ECI 6-12 BOLT ASSEMBLY



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NO

FOR APPROVAL

CDL ZX

14MAR2018

DESCRIPTION

BY

CHK

DATE

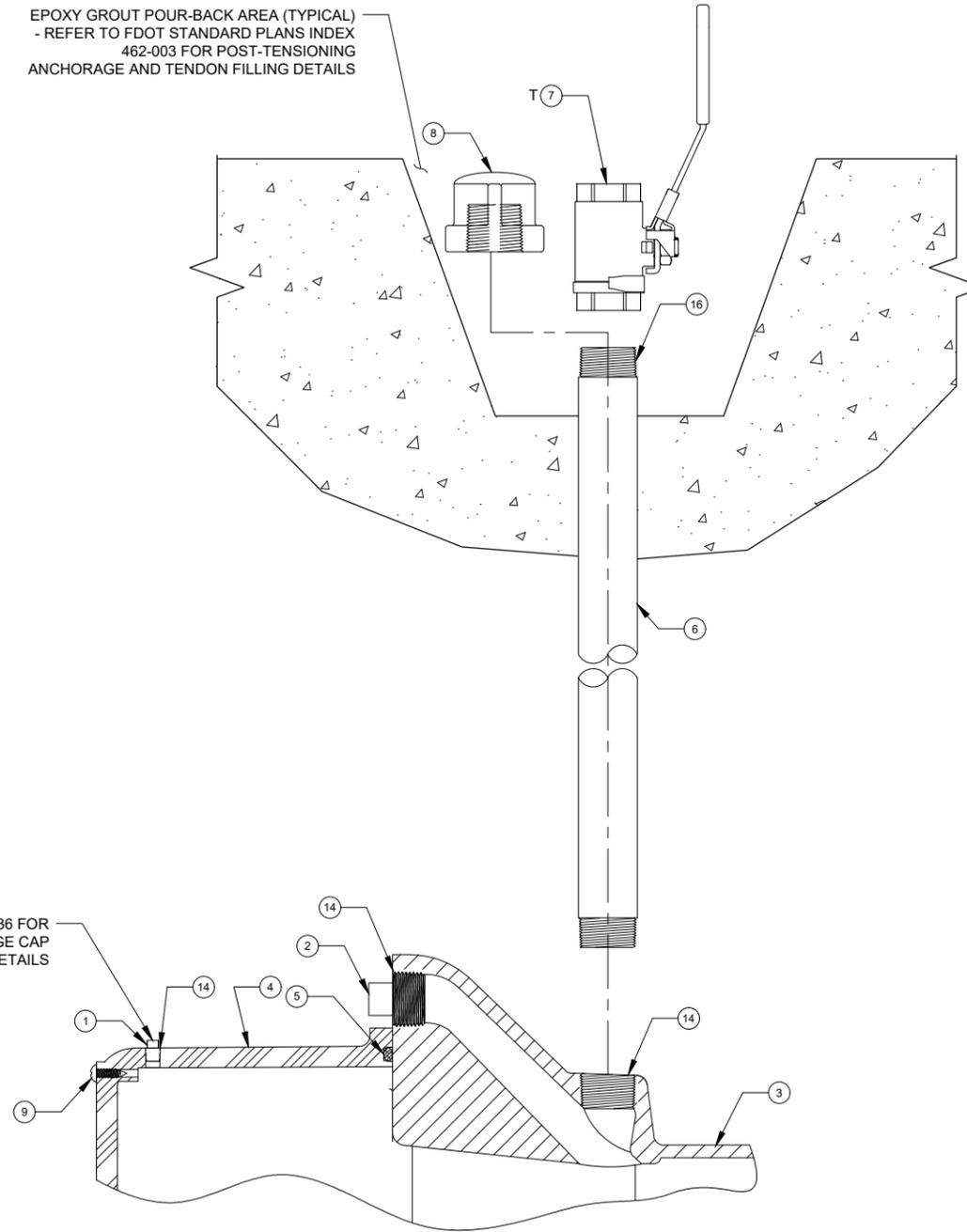
PROJECT NO: --

SCALE: NTS

SHEET NO:

A345

EPOXY GROUT POUR-BACK AREA (TYPICAL)
- REFER TO FDOT STANDARD PLANS INDEX
462-003 FOR POST-TENSIONING
ANCHORAGE AND TENDON FILLING 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 6-12 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR80-55-06	02BP0037V
4	1	6-12 ANCHORAGE CAP W/ 1/4" TOP PORT	ABS	02GC61203
5	1	6-12 ANCHORAGE CAP O-RING	HNBR	02WX5020
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	-	BONDUIT	-	-
16	-	SILICONE GREASE	-	-

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

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PROJECT INFORMATION:	SYSTEM DRAWING	FOR APPROVAL	NO	NO	NO
	ECI 6-12 VERTICAL INJECTION OPTIONS	DESCRIPTION	BY	CHK	DATE
PROJECT NO:	SCALE:	CDL	ZX	14MAR2018	
SHEET NO:	NTS				
		A341			

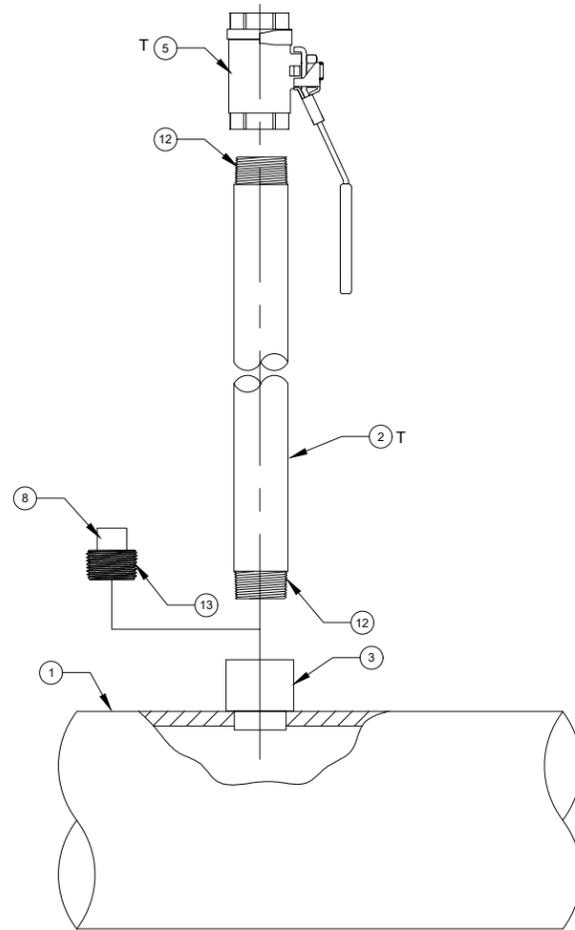
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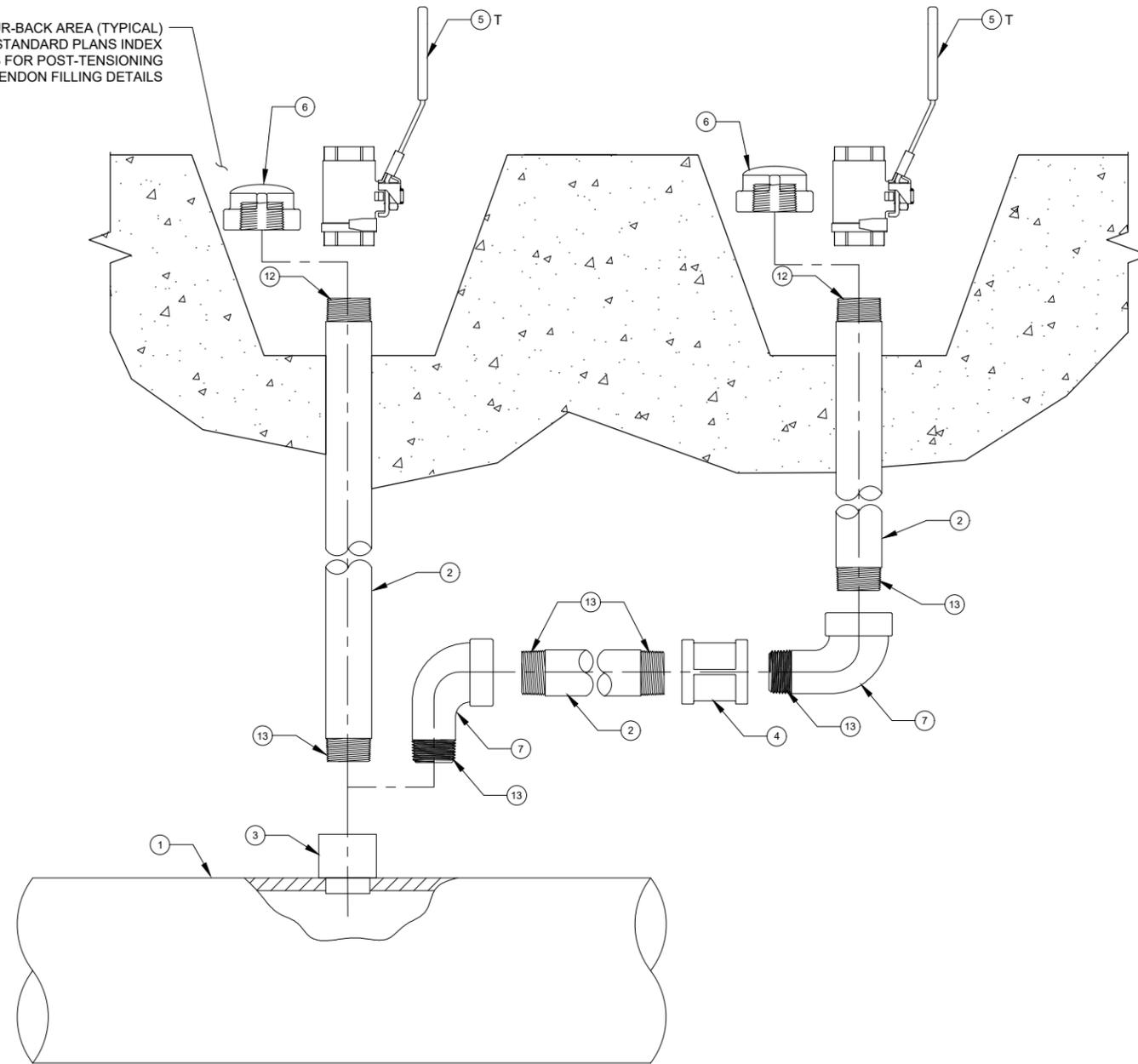
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ELECTRONIC FILE LOCATION: \\VSL\System Drawings\Work in Progress Drawings\Florida DOT Test 2017\EC16-7 Flexible Filler Submittal



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.

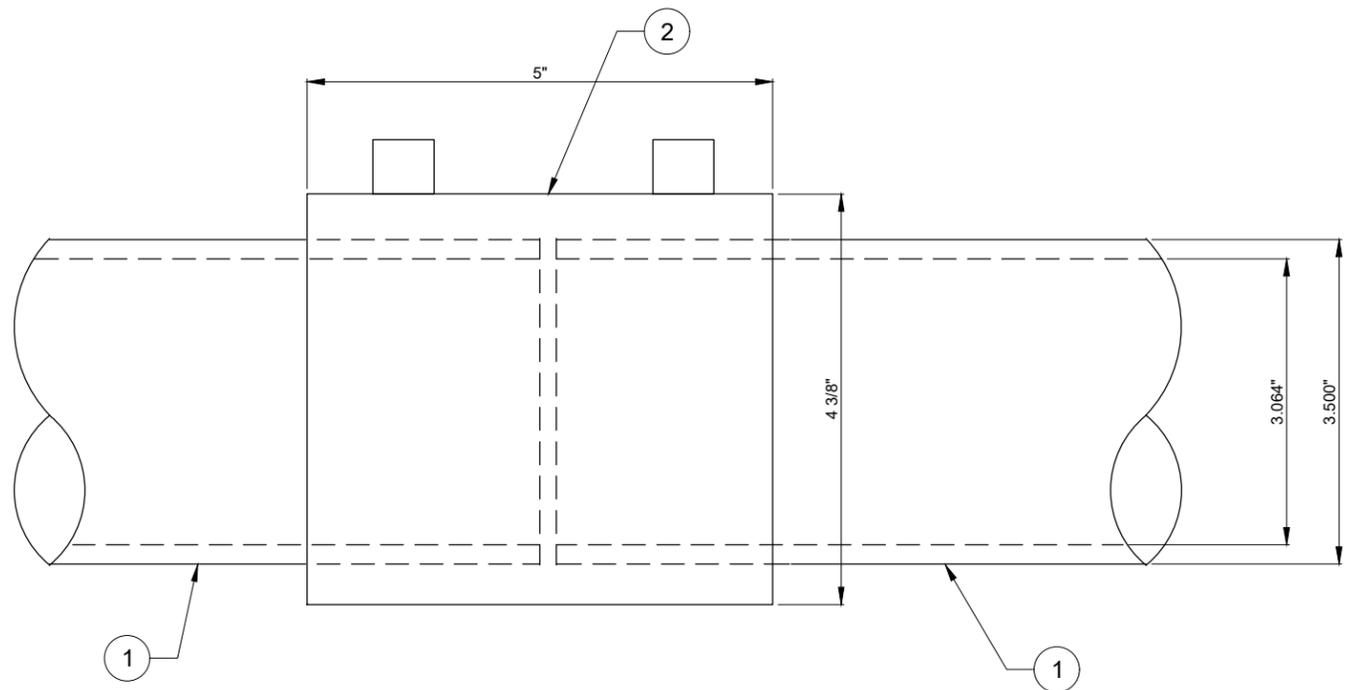
NOTES

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	-	-

<p>Structural Technologies A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL</p>					
PROJECT INFORMATION: SYSTEM DRAWING			TITLE: 3" HDPE PIPE VENT ASSEMBLY		
PROJECT NO: ---			SCALE: NTS		
SHEET NO:			A323		
		FOR APPROVAL		CDL	ZK
		NO		BY	CHK
		DESCRIPTION		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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PROJECT INFORMATION:

SYSTEM DRAWING

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

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:
A319

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 FORT WORTH, TX 76155
 PHONE: (817) 545-4877
 FAX: (817) 545-4827
 WWW.VSL.NET

FOR APPROVAL
NO

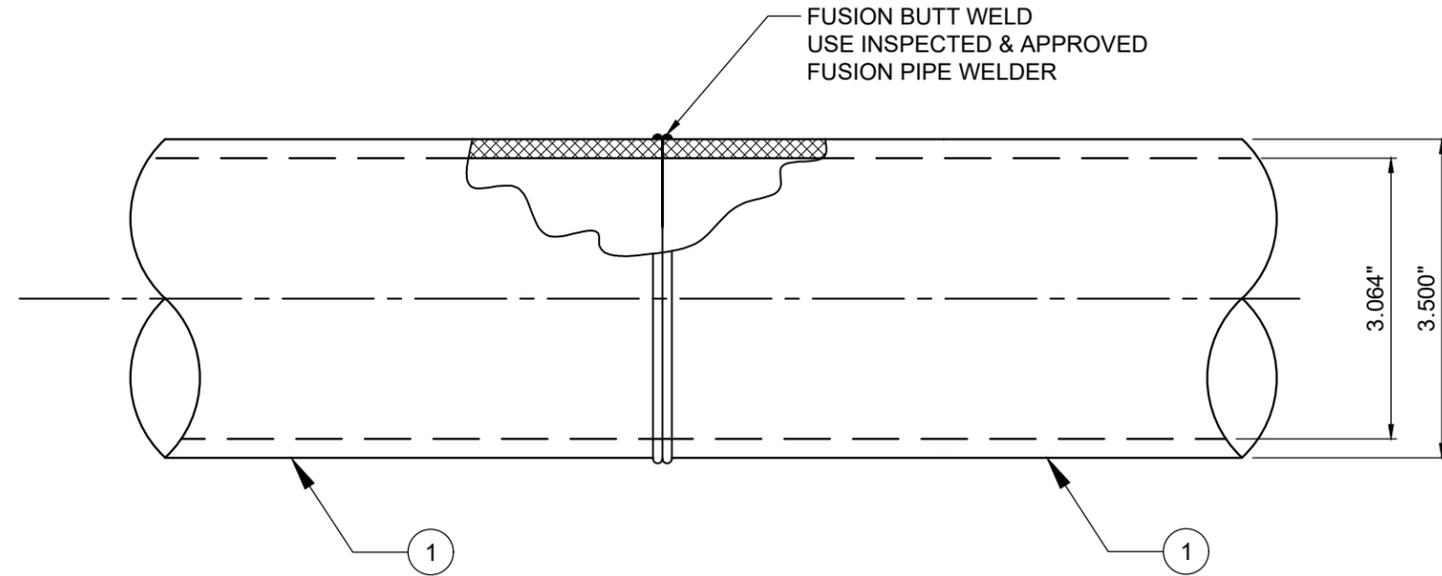
DESCRIPTION

BY

CHK

DATE

26FEB2018



ELEVATION VIEW

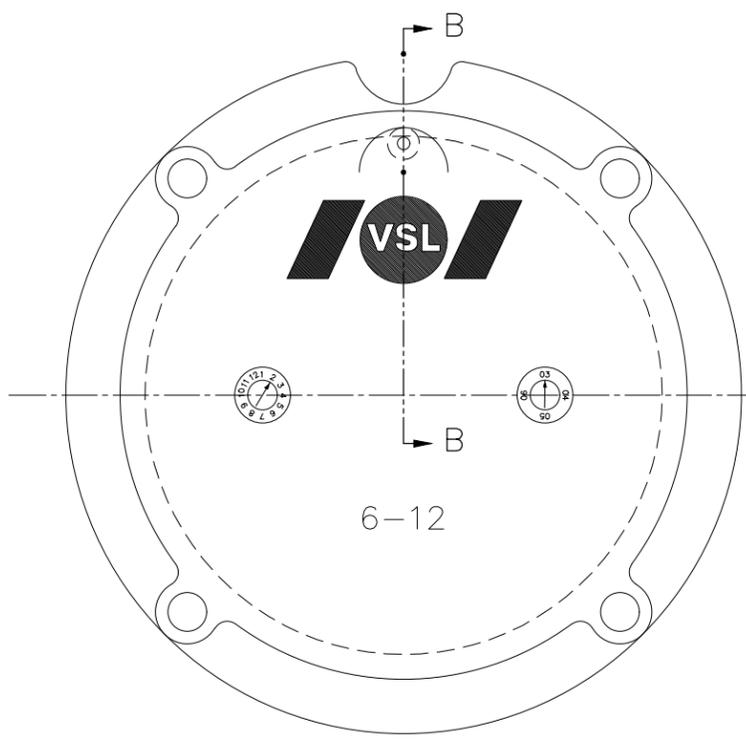
ITEM	QTY	DESCRIPTION	MATERIAL
1	2	3" HDPE PIPE DR-17	ASTM D3035

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

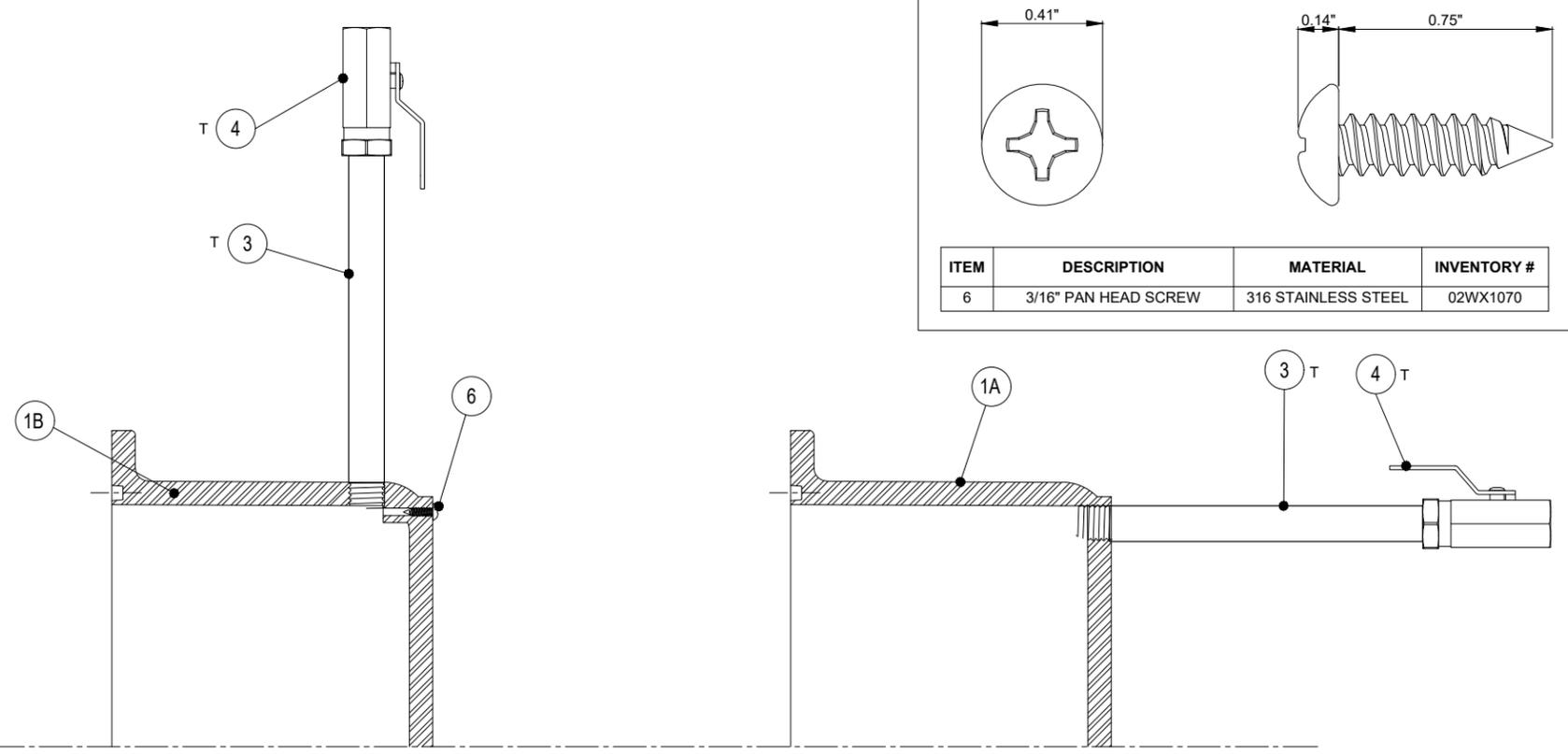
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<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p> <p>PROJECT NO: SYSTEM</p> <p>SHEET NO: A320</p>		<p>TITLE:</p> <p>TYPICAL 3" HDPE PIPE TO 3" HDPE PIPE FUSION WELDED CONNECTION</p> <p>SCALE:</p> <p>NTS</p>	
<p>STRUCTURAL TECHNOLOGIES</p> <p>A Structural 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>BY CHK</p> <p>DATE</p> <p>26FEB2018</p>	
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ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work In Progress Drawings\Floida DOT Test 2017\ECI 6-12 Flexible Filler Submittal

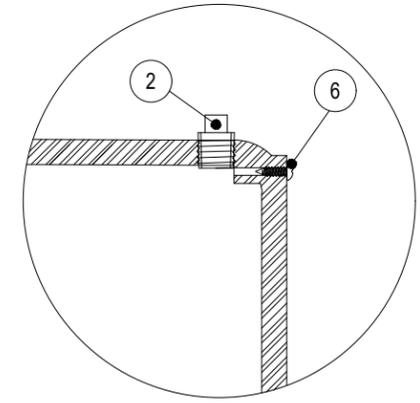


6-12 GROUT CAP



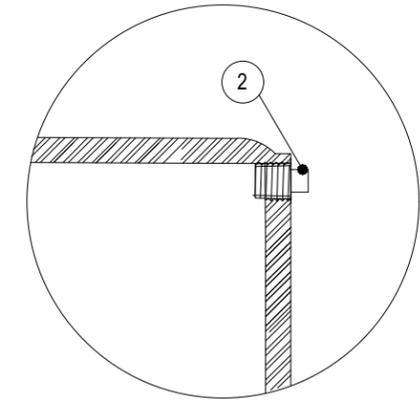
SECTION B-B

TOP PORT



AFTER WAX

FRONT PORT



AFTER WAX

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

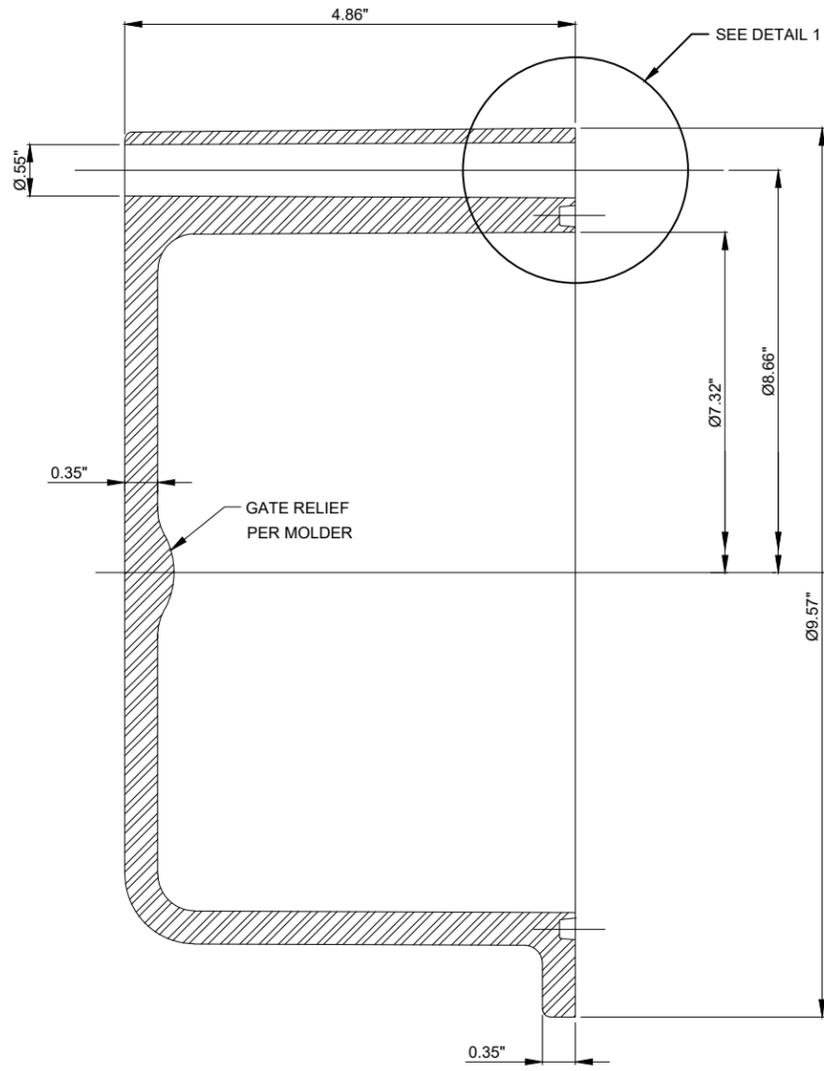
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY No.
6	1	3/16" PAN HEAD SCREW	316 STAINLESS STEEL	02WX1070
4	1	1/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924
3	1	1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-
2	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
1B	1	6-12 GROUT CAP W/ 1/4" TOP PORT	ABS	02GC61203
1A	1	6-12 GROUT CAP W/ 1/4" FRONT PORT	ABS	02GC61202

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

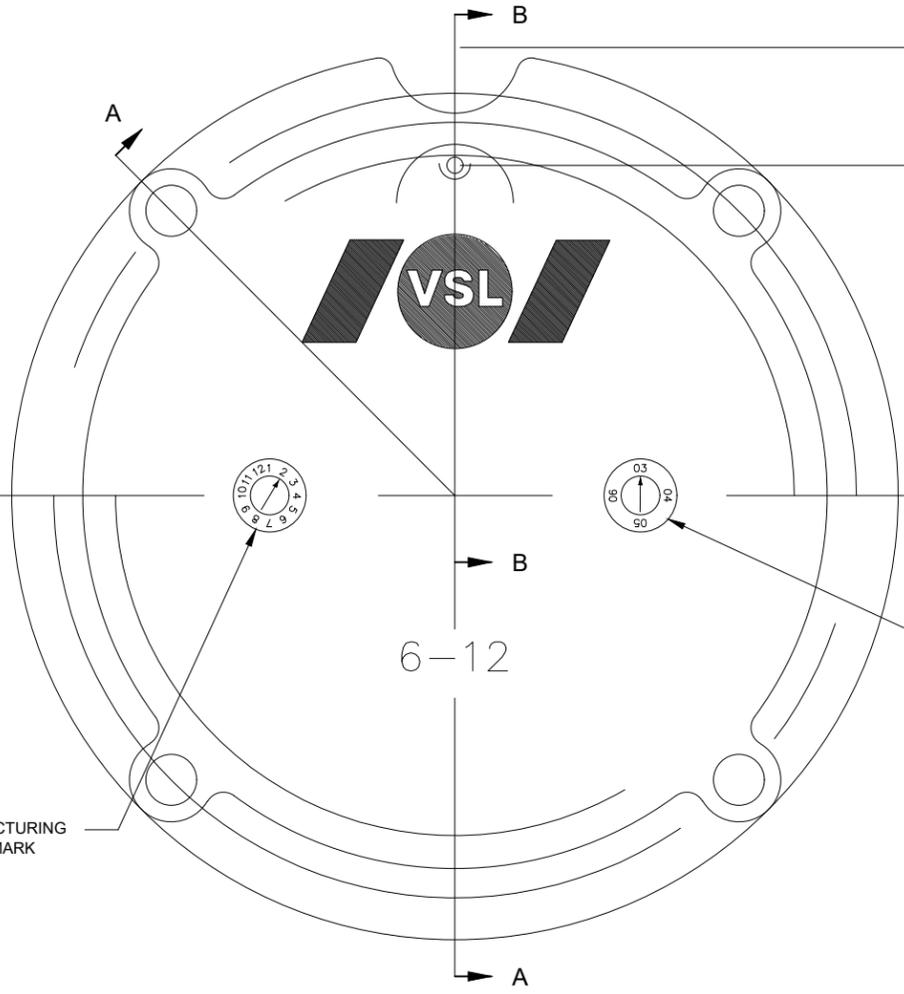
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PROJECT INFORMATION:		SYSTEM DRAWING	
TITLE: ECI 6-12 ANCHORAGE CAP ALTERNATIVE VENT DETAIL		SCALE: NTS	
PROJECT NO: SYSTEM		SHEET NO: A336	
<p>structural TECHNOLOGIES A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL</p> <p>DALLAS OFFICE 15600 TRINITY BLVD., SUITE 118 PORT WORTH, TX 76158</p> <p>PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET</p>		<p>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 REPRODUCTION OF THE INFORMATION, IS RESTRICTED TO THE SITE FOR WHICH IT 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.</p>	
NO	DESCRIPTION	BY	DATE
NO	3/4" GROUT PORTS	DTS	18MAY2012
1	VENT DETAILS	DD	03JULY2012
2	TITLE BLOCK UPDATED	ZX	14MAR2018

ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work In Progress Drawings\Front Port\2017\ECI 6-12\Flexible Filler_Submittal



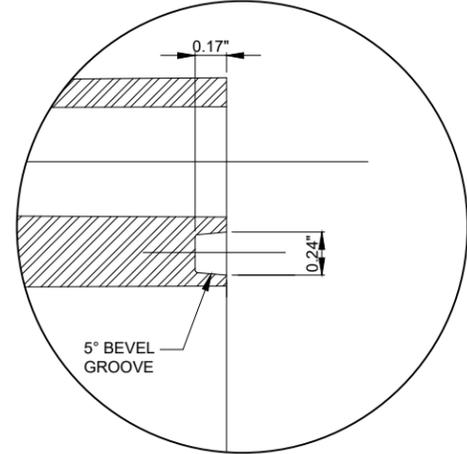
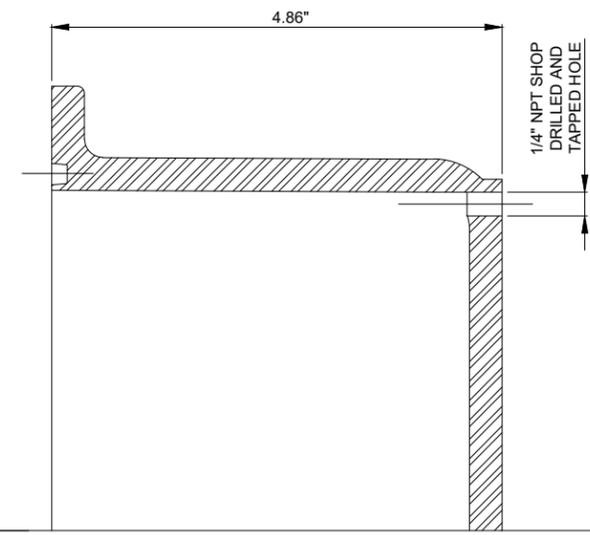
SECTION A-A



MANUFACTURING MONTH MARK

MANUFACTURING YEAR MARK

SECTION B-B



DETAIL 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 #: 02GC61202

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PROJECT INFORMATION: SYSTEM DRAWING	TITLE BLOCK UPDATED	CDL	ZX	14MAR2018
	TITLE BLOCK UPDATED	SK	ZX	04FEB2015
	VENT DETAILS	GB	MM	01OCT2010
	3/4" GROUT PORTS	LS	ZX	29JAN2004
NO	NO	BY	CHK	DATE
DESCRIPTION		ECI 6-12 ANCHORAGE CAP W/ 1/4" NPT FRONT PORT		
SCALE: NTS		SHEET NO: C548		

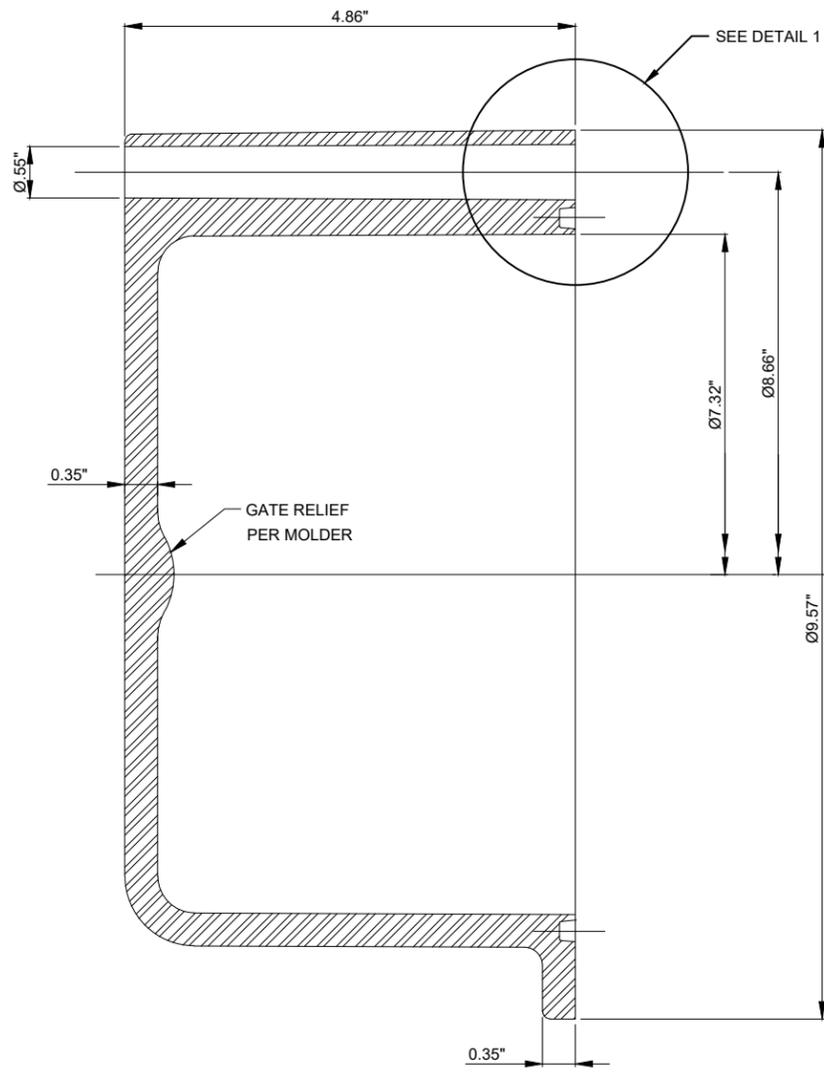
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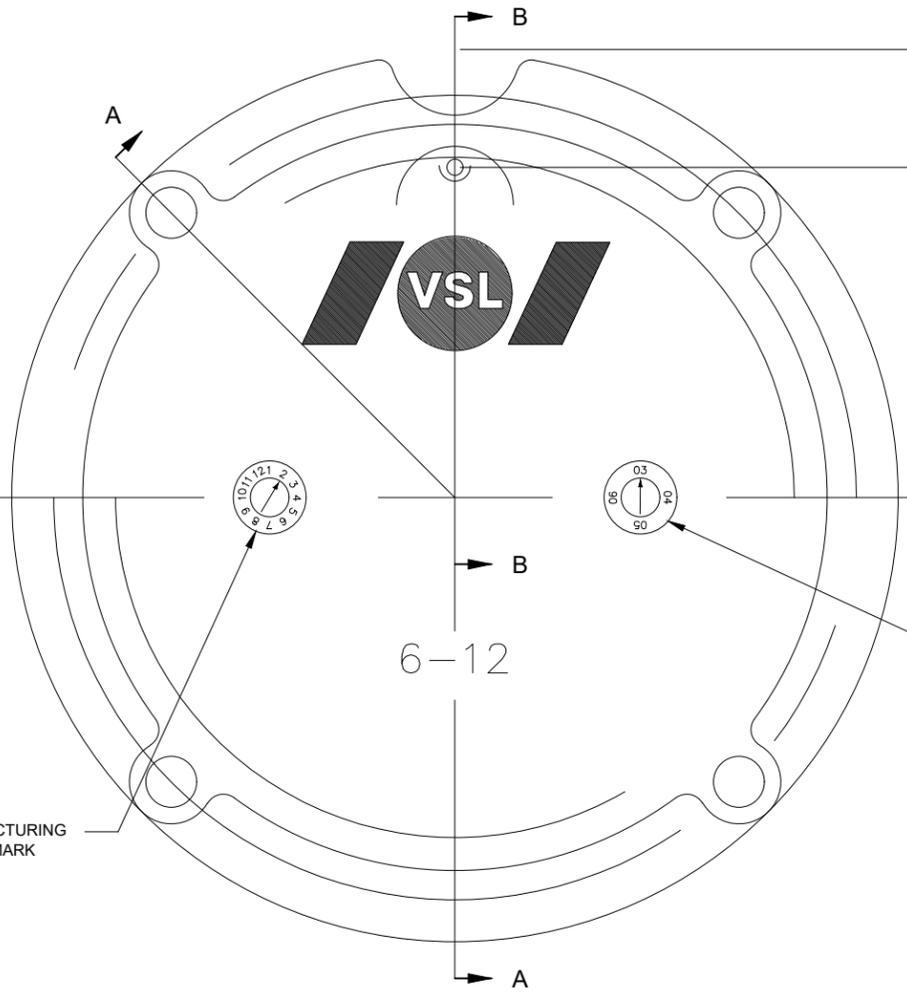
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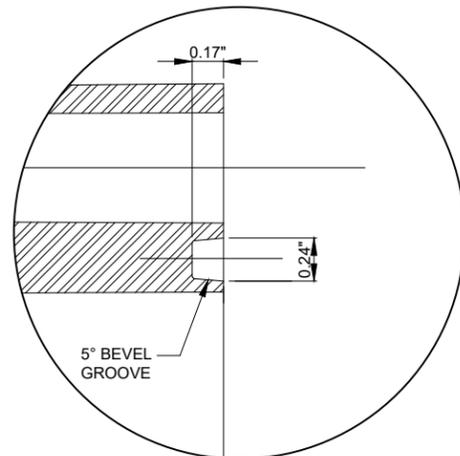


SECTION A-A

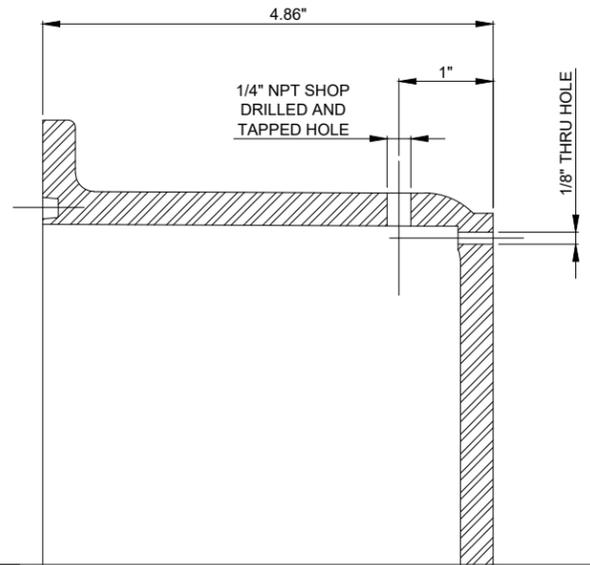


MANUFACTURING MONTH MARK

MANUFACTURING YEAR MARK



DETAIL 1



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 #: 02GC61203

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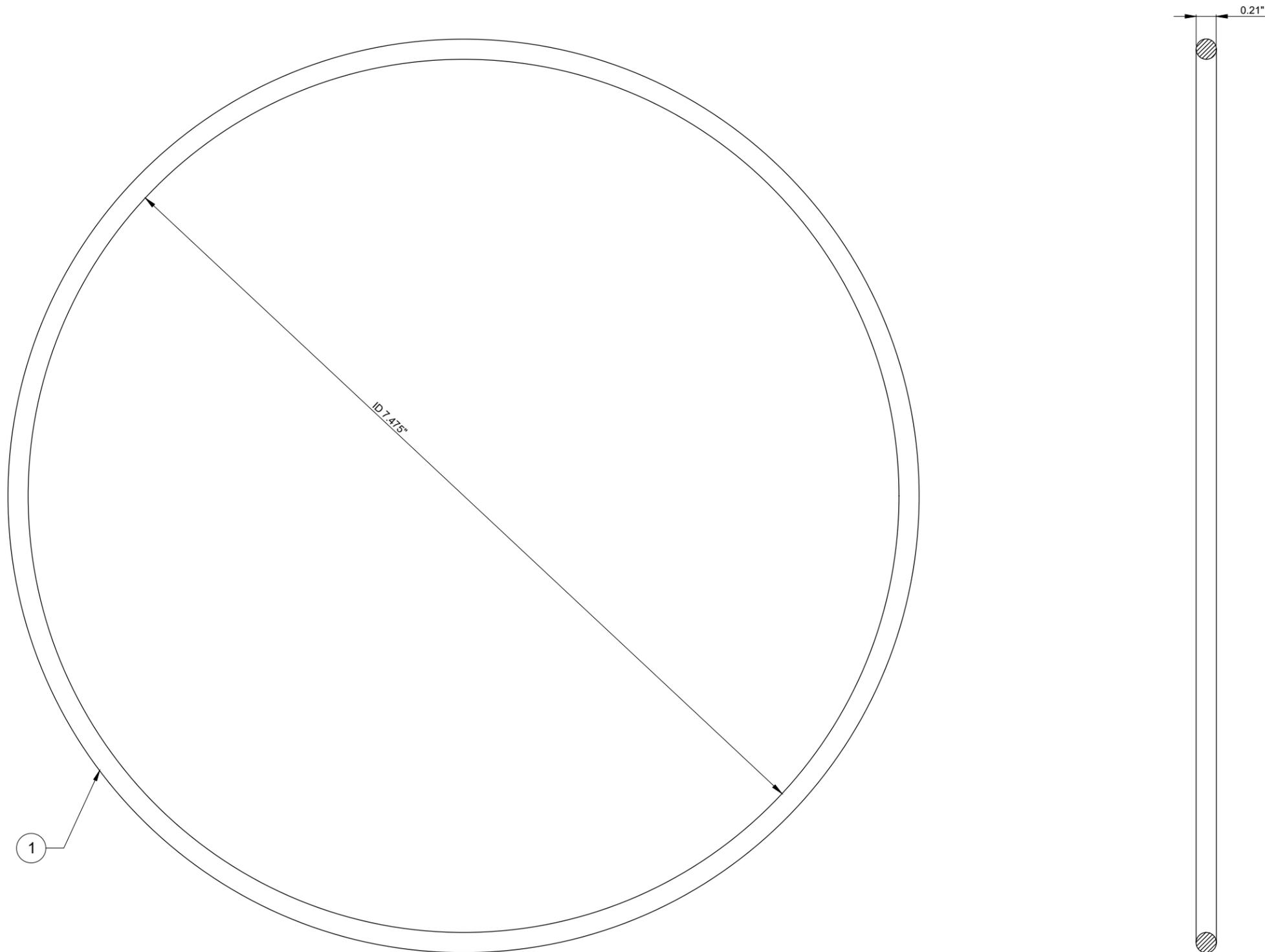
PROJECT INFORMATION:	SYSTEM DRAWING	TITLE:	ECI 6-12 ANCHORAGE CAP W/ 1/4" TOP PORT		
PROJECT NO:	SYSTEM	SCALE:	NTS		
SHEET NO:			C739		
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	4	TITLE BLOCK UPDATED	SK	ZX	04FEB2015
	3	VENT DETAILS	GB	MM	01OCT2010
	2	3/4" GROUT PORTS	LS	ZX	29JAN2004
	NO	DESCRIPTION	BY	CHK	DATE

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 FORT WORTH, TX 76156



ITEM	QTY	DESCRIPTION	MATERIAL	SIZE	INVENTORY
1	-	6-12 ANCHORAGE CAP O-RING	HNBR	7.475"x7.895"x0.21"	02WX5020

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PROJECT INFORMATION:

SYSTEM DRAWING

6-12 ANCHORAGE CAP O-RING

TITLE: 6-12 ANCHORAGE CAP O-RING

SCALE: NTS

PROJECT NO: SYSTEM

SHEET NO: C730

FOR APPROVAL

NO

CDL ZK

BY CHK

14MAR2018

DATE

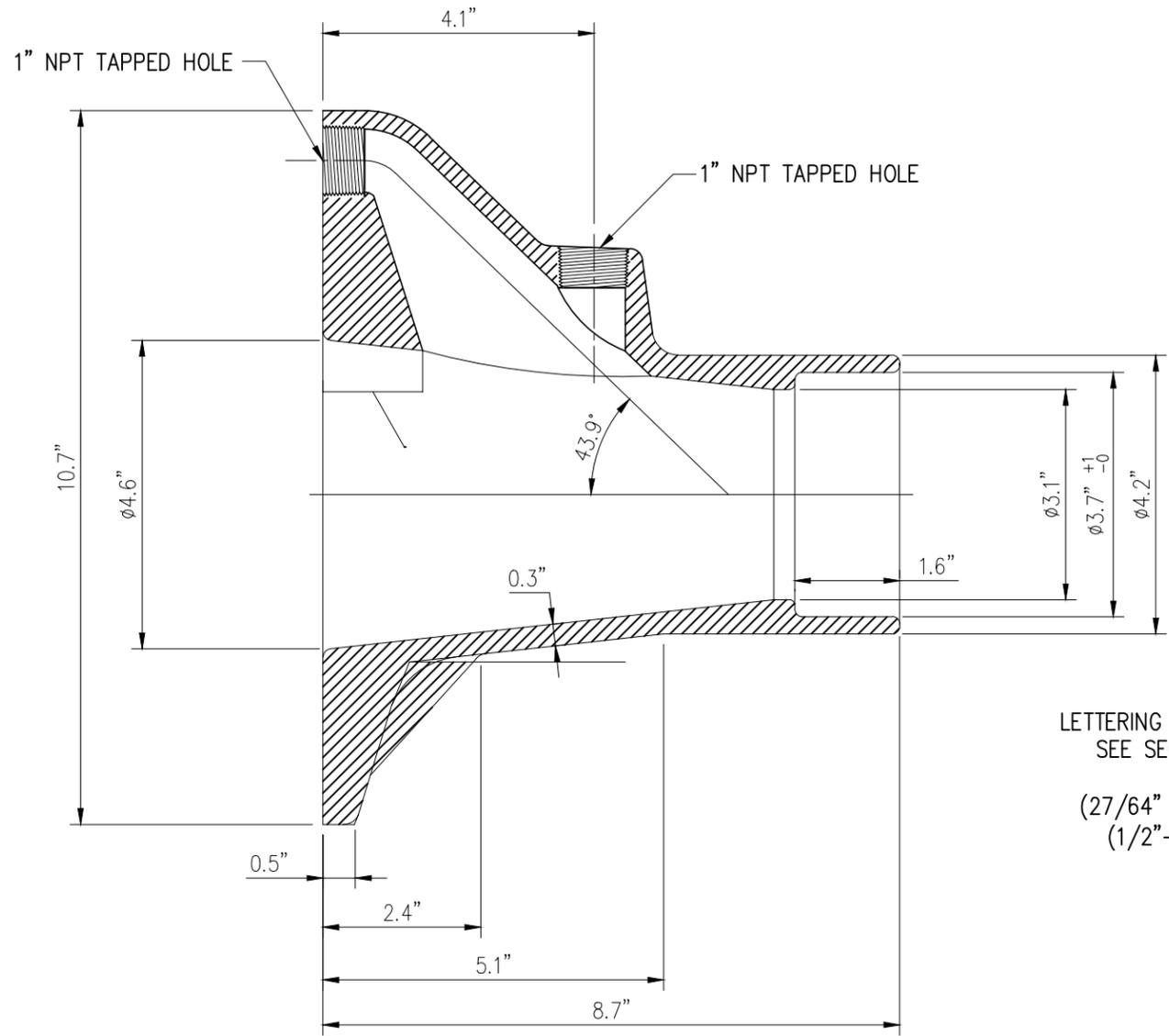
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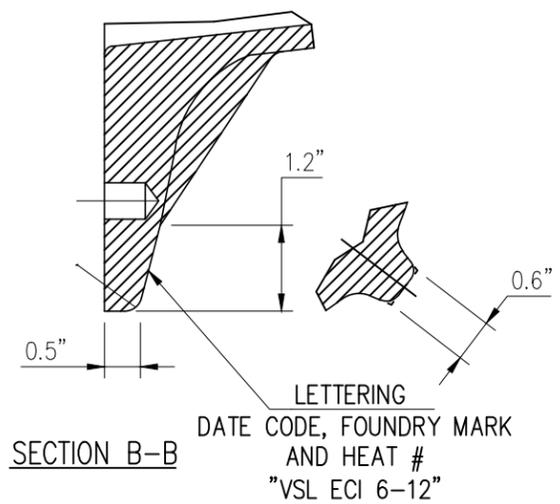
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FAX: (817) 545-4827
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ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work In Progress Drawings\Floida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



SECTION A-A

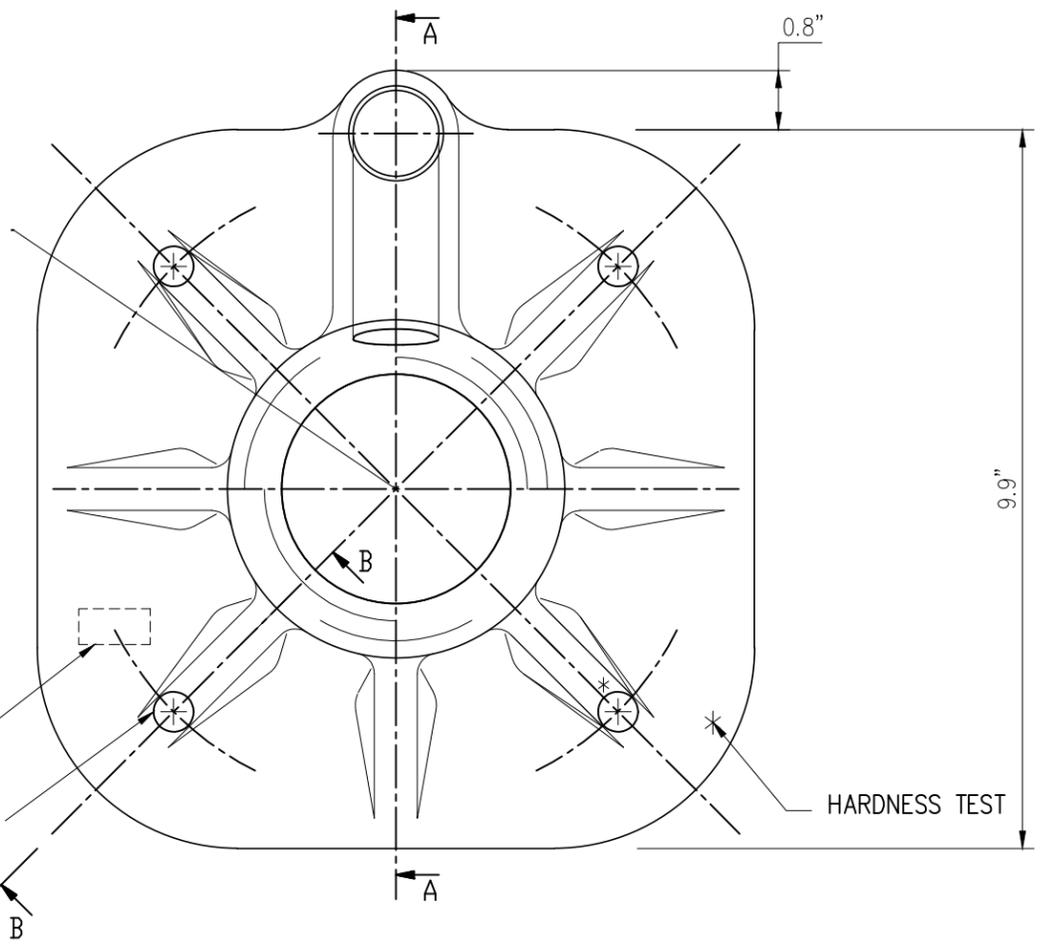


SECTION B-B

LETTERING
DATE CODE, FOUNDRY MARK
AND HEAT #
"VSL ECI 6-12"

LETTERING REVERSE SIDE
SEE SECTION B-B

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



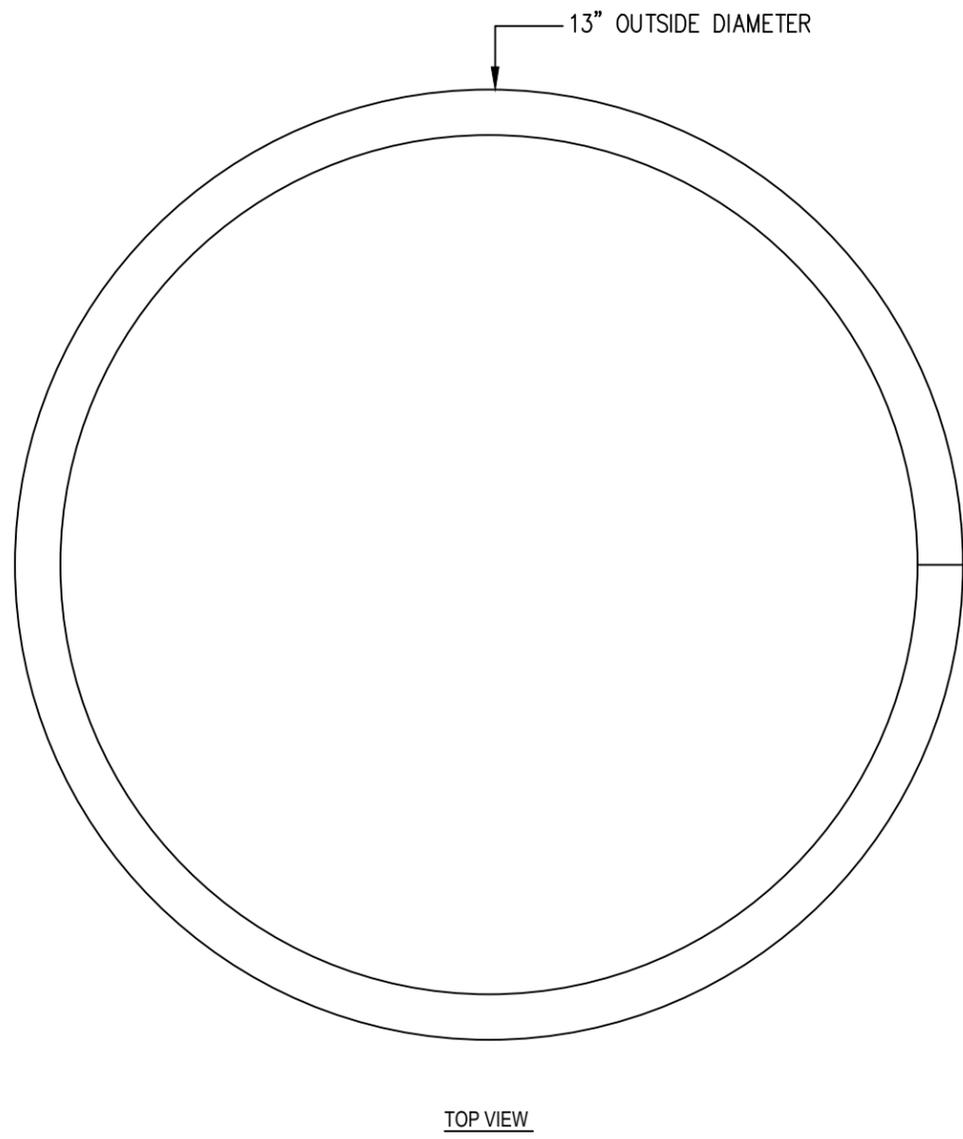
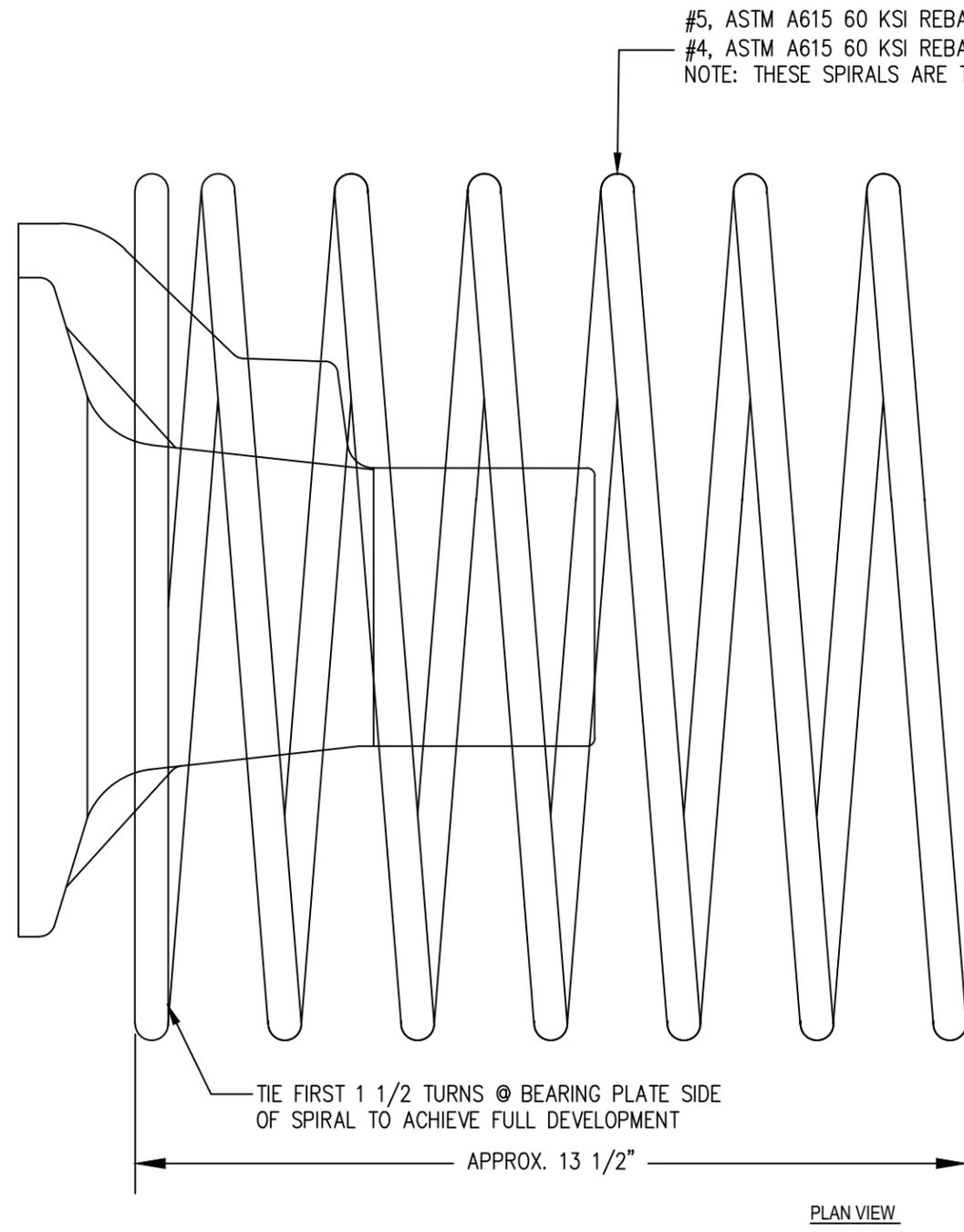
GENERAL NOTES

- 1) ALL HOLES TO BE FREE FROM BURRS
- 2) MATERIAL: ASTM A536 GR 80-55-06 GALVANIZED.
- 3) PROTECT ALL THREADS BEFORE GALVANIZING
INVENTORY No. 02BP0037V (GALVANIZED)

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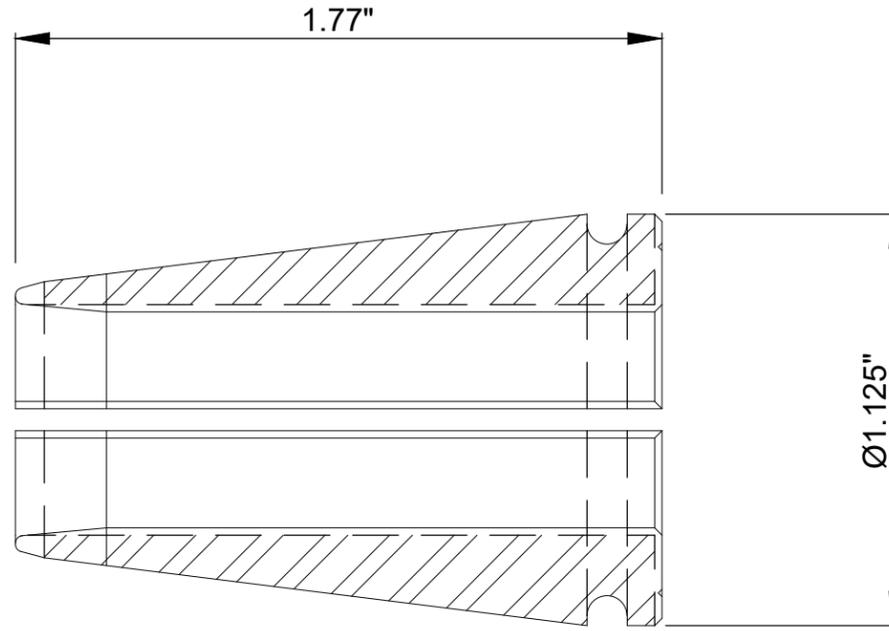
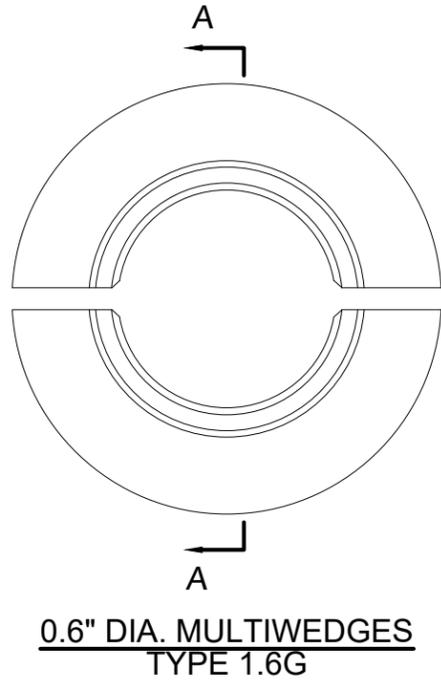
PROJECT INFORMATION:		ISSUED FOR PRODUCTION	
PROJECT NO:	SYSTEM	CDL	ZX
SHEET NO:	C737	BY	CHK
TITLE:		DATE	
ECI 6-12 BEARING PLATE W/ 1" NPT PORT		14MAR2018	
SCALE:		NO	
NTS		DESCRIPTION	
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<p>structural TECHNOLOGIES A Structural Group Company</p> <p>Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL</p> <p>PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET</p>		<p>NO</p>	

ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-12 Flexible Filler Submittal



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PROJECT NO:	SYSTEM	ISSUED FOR CONSTRUCTION	NO
SHEET NO:	C728	CDL	ZX
TITLE:	ECI 6-12 SPIRAL	BY	CHK
SCALE:	NTS		DATE
			14MAR2018



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

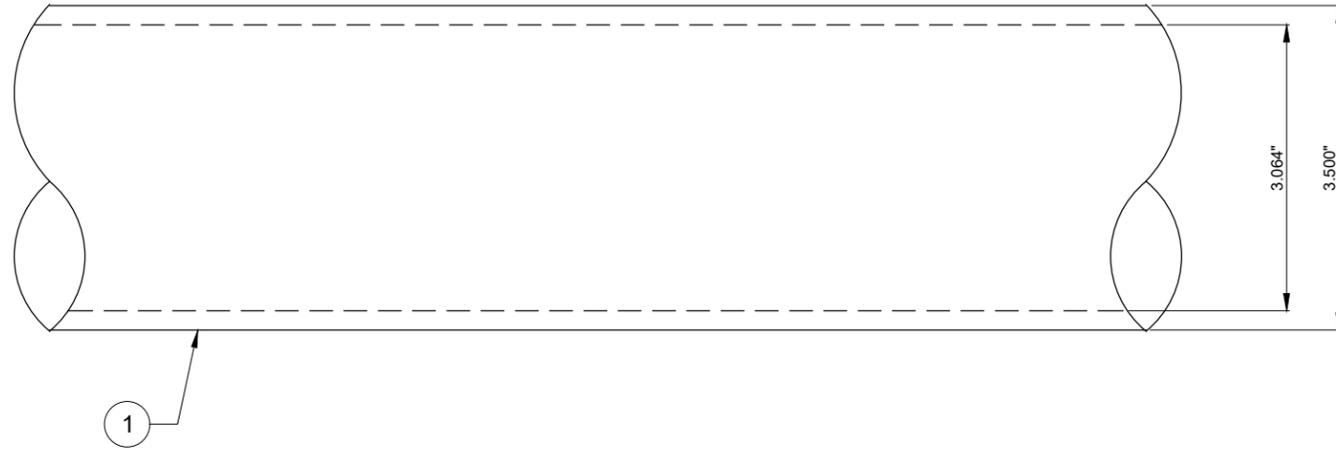
Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL

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

VSL

PHONE: (817) 545-4877
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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

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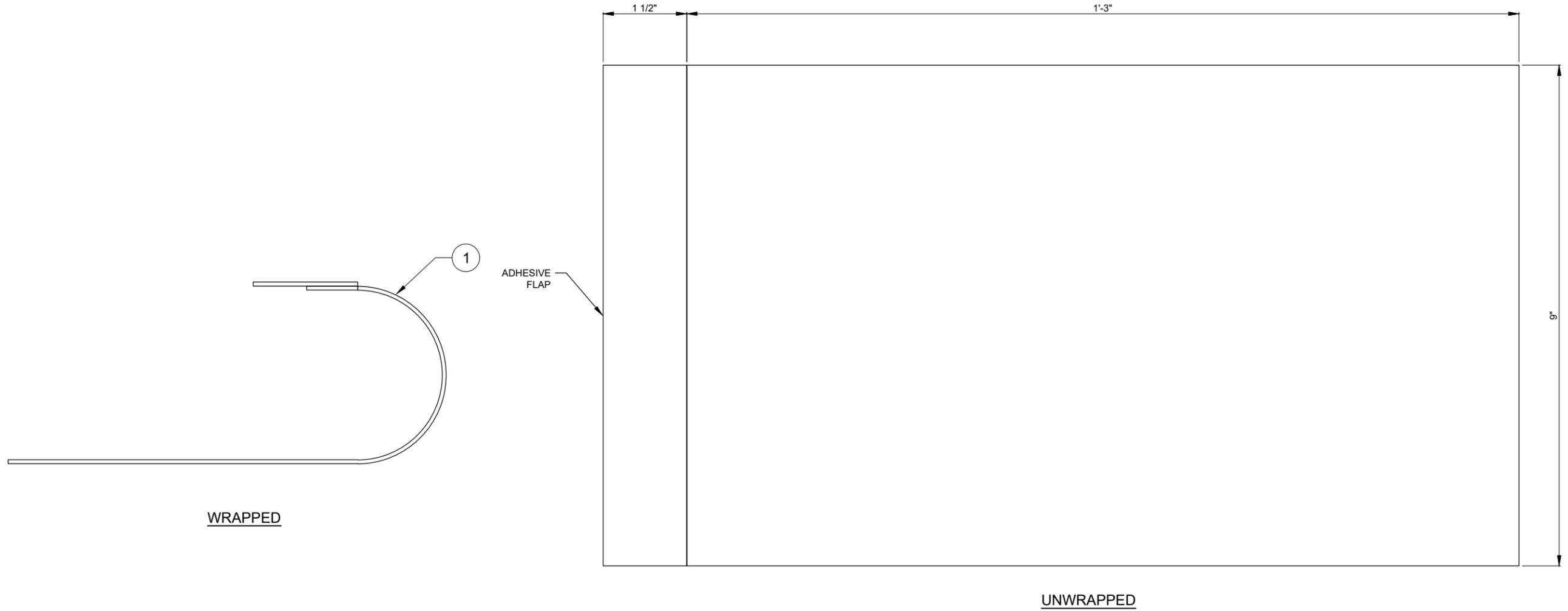
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NO

FOR APPROVAL
DESCRIPTION

CDL ZK
BY CHK

26FEB2018
DATE



ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	CANUSA KLNN-90 WS BK/L 9" HEAT SHRINK SLEEVE	POLYOLEFIN	02DT0513

NOTE: REFERENCE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS IN THE APPENDIX.

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.

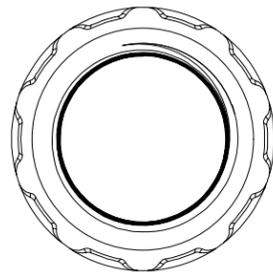
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PROJECT NO:	1	SCALE:	NTS
SHEET NO:		TITLE:	KLNN-90 9" HEAT SHRINK SLEEVE
SYSTEM DRAWING		DATE:	14MAR2018
DESCRIPTION		BY:	CHK
DESCRIPTION		CDL:	ZX
DESCRIPTION		NO:	△0
DESCRIPTION		FIRST ISSUE	
DESCRIPTION		NO	

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A Structural Group Company

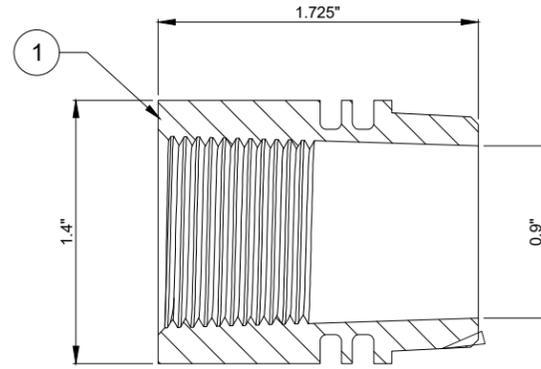
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DALLAS OFFICE
15600 TRINITY BLVD, SUITE 118
FORT WORTH, TX 76155

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



END VIEW



SIDE VIEW

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

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" FNPT SMOOTH GROUT PORT

PROJECT NO:
-

SCALE:
NTS

SHEET NO:

C743

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NO

FIRST ISSUE

DESCRIPTION

CDL

BY

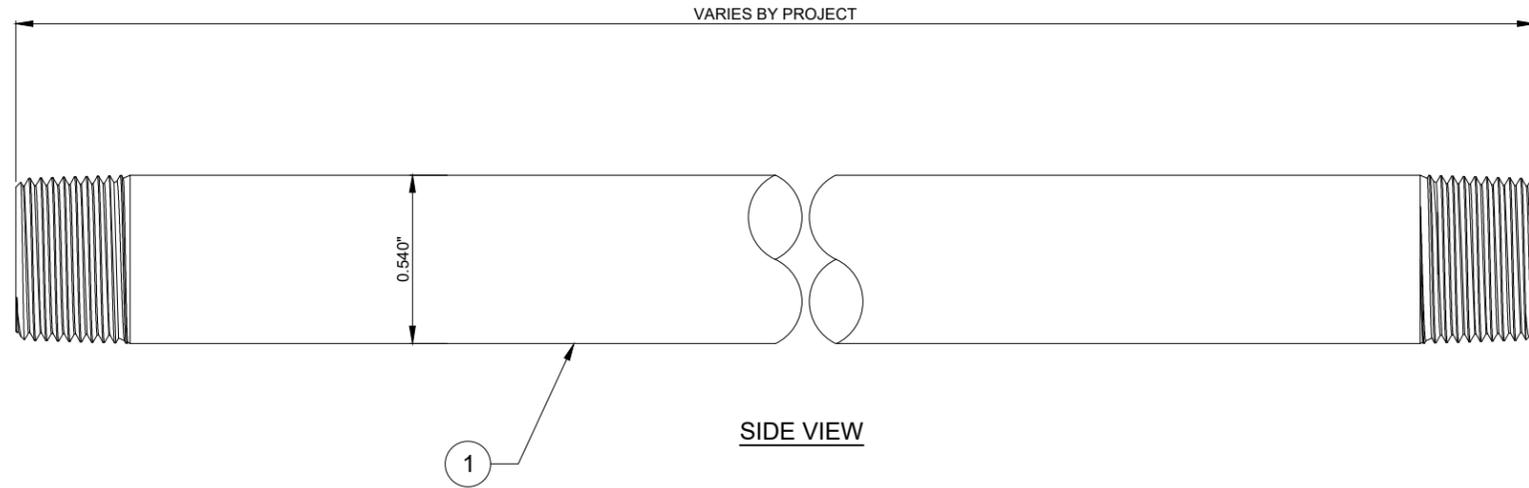
ZX

CHK

26FEB2018

DATE

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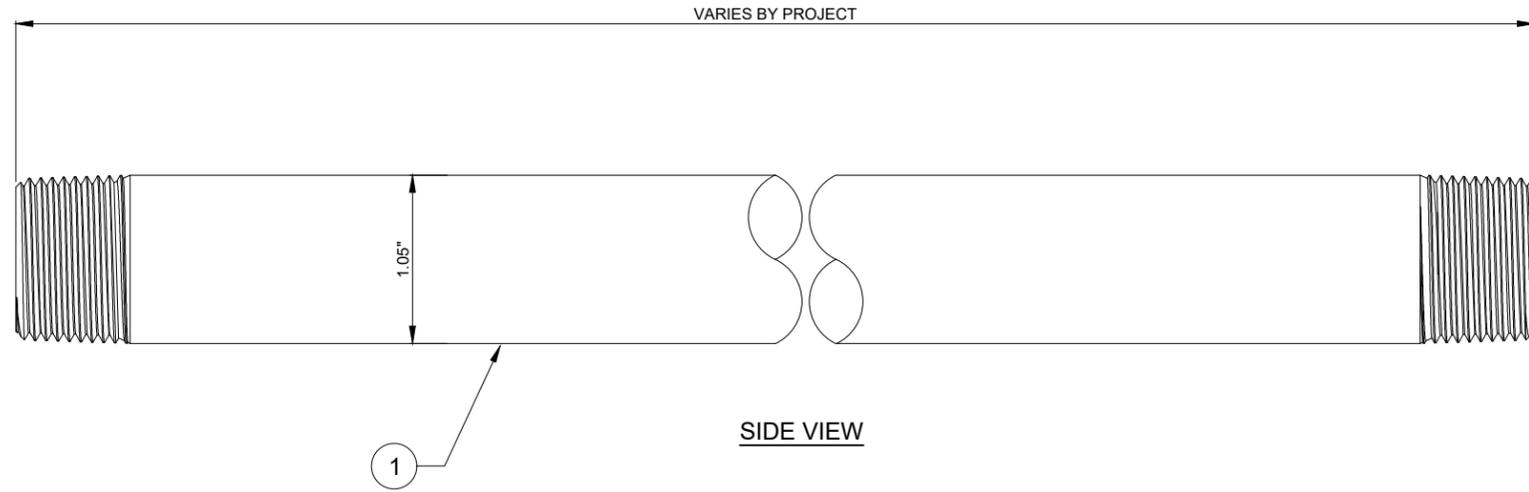


ITEM	QTY	DESCRIPTION	MATERIAL
1	-	1/4" NPT STEEL NIPPLE	SCH 40 STEEL

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	SCALE:	NTS
SHEET NO:	C749	TITLE:	1/4" NPT STEEL NIPPLE
SYSTEM DRAWING		<p>Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL PHONE: (817) 545-4877 FAX: (817) 545-4827 WWW.VSL.NET</p>	
FIRST ISSUE		CDL	ZX
DESCRIPTION		BY	CHK
NO		26FEB2018	
NO		DATE	

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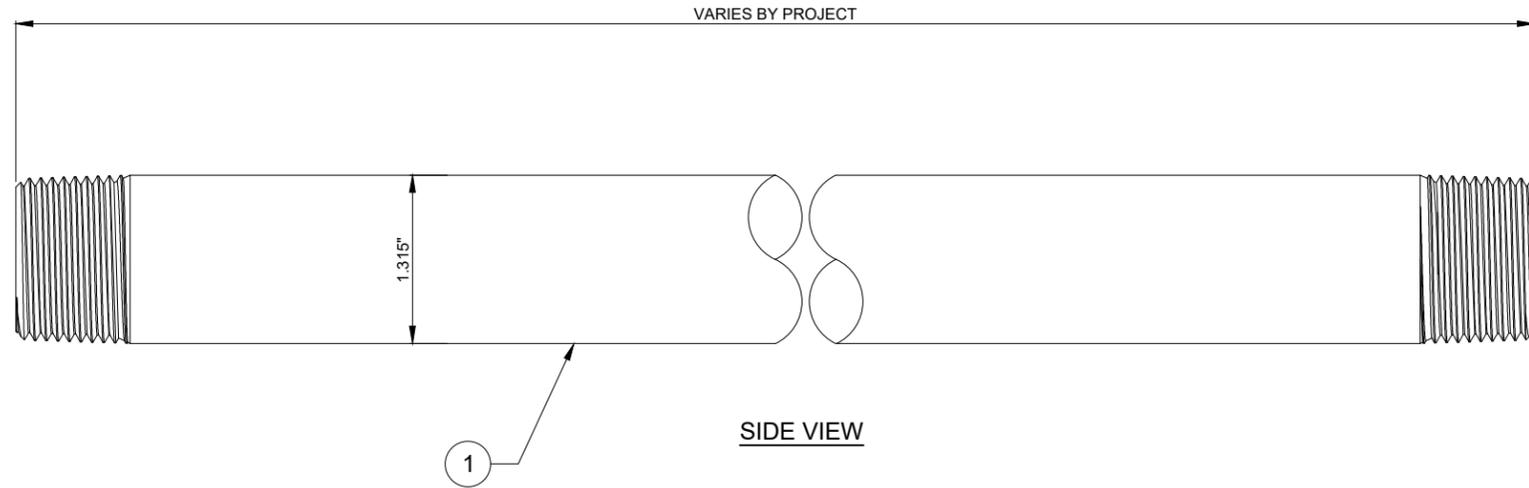


ITEM	QTY	DESCRIPTION	MATERIAL
1	-	3/4" NPT NIPPLE	SCH 40 STEEL

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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:		DESCRIPTION	
SYSTEM DRAWING		FIRST ISSUE	
3/4" NPT STEEL NIPPLE		NO	
SCALE:		DATE	
NTS		26FEB2018	
C722			

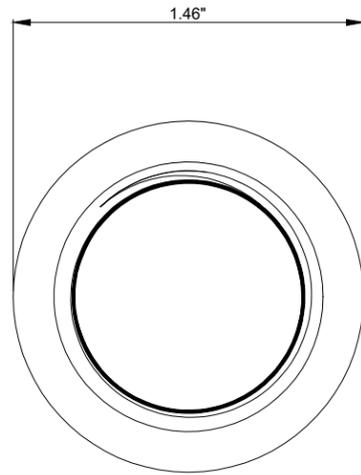
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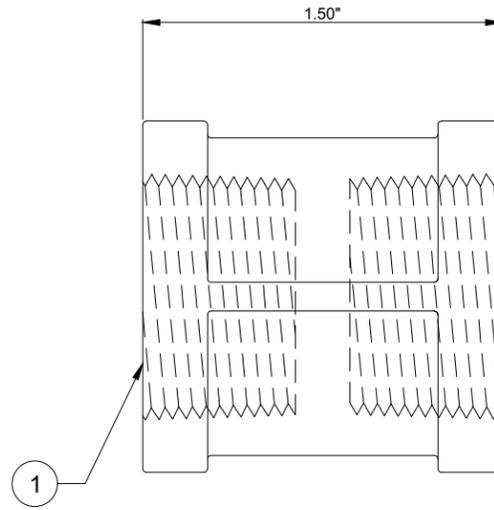
ITEM	QTY	DESCRIPTION	MATERIAL
1	-	1" NPT STEEL NIPPLE	SCH 40 STEEL

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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

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 F/F COUPLER

SCALE:
NTS

C728

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FIRST ISSUE

DESCRIPTION

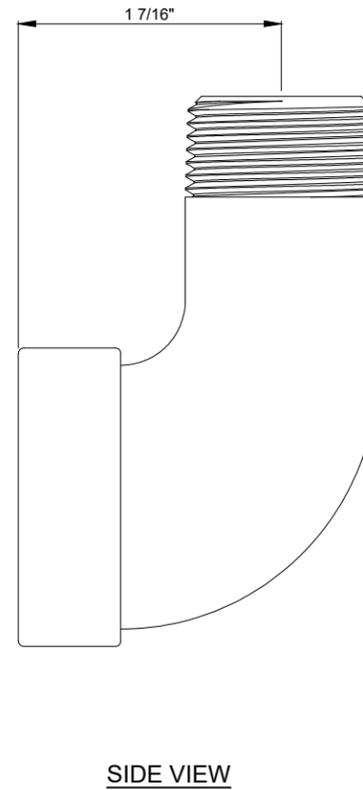
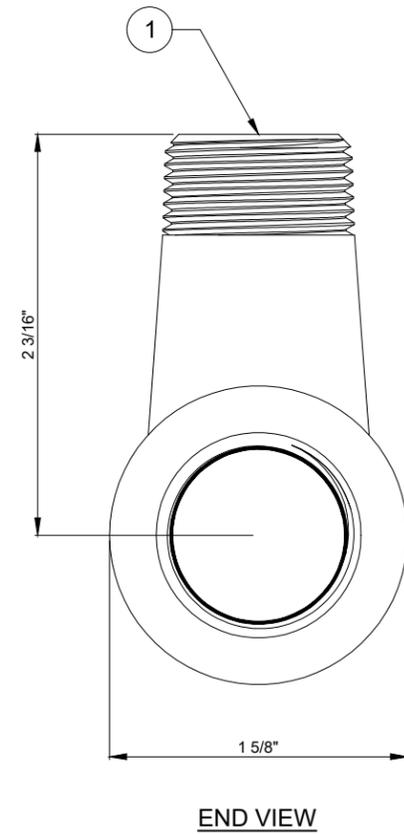
BY

CHK

DATE

26FEB2018

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



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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
3/4" FNPT X MNPT STEEL ELBOW

PROJECT NO:

SCALE:
NTS

SHEET NO:

C750

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NO

FIRST ISSUE

DESCRIPTION

CDL

ZX

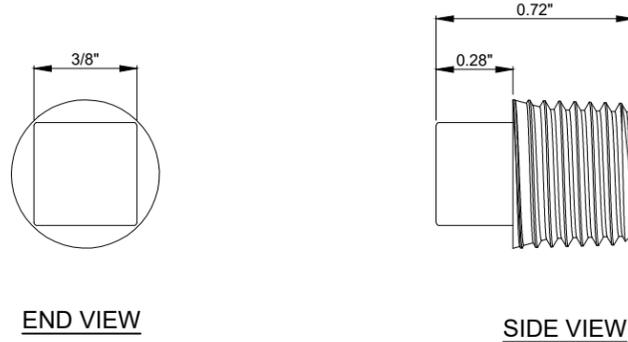
26FEB2018

BY

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DATE

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

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

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A Structural Group Company

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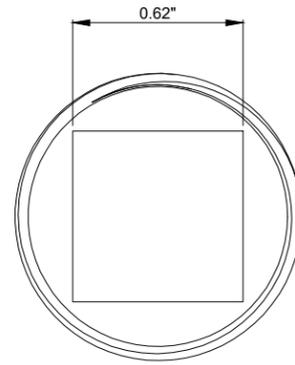
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15600 TRINITY BLVD, SUITE 118
FORT WORTH, TX 76156

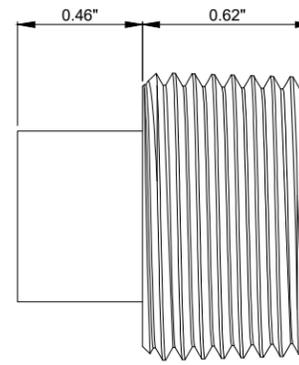
SYSTEM DRAWING

1/4" NPT STEEL PLUG

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



END VIEW

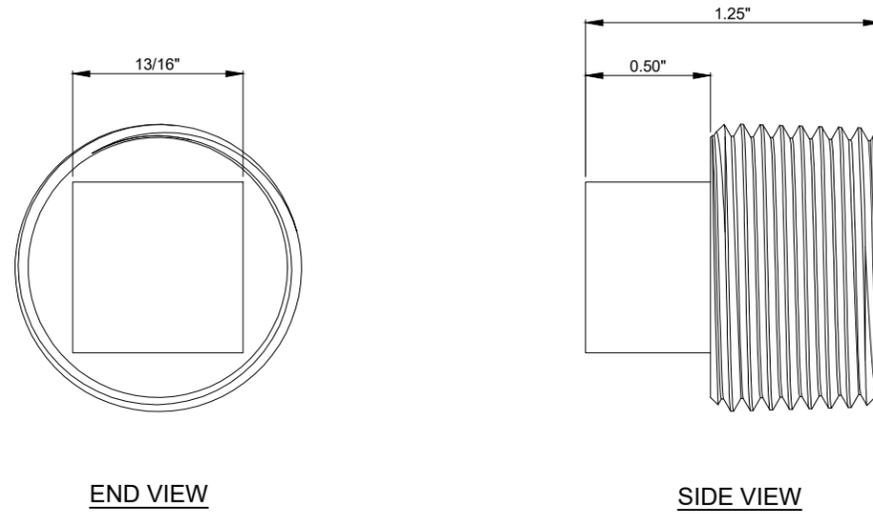


SIDE VIEW

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.

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

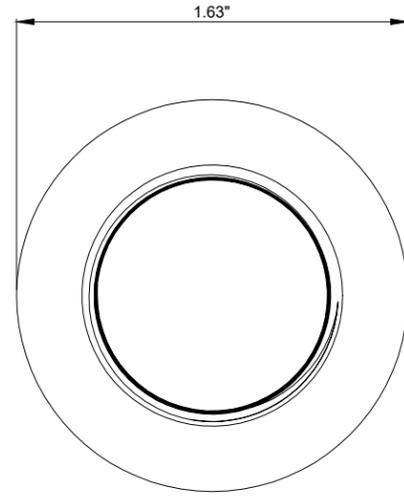
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958



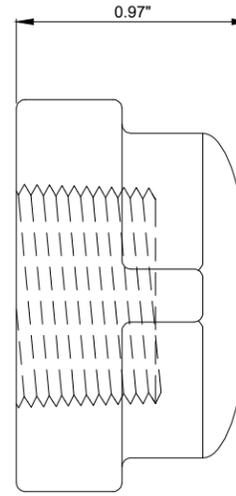
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PROJECT NO:	1	CDL	ZX
SHEET NO:		BY	CHK
TITLE:		FIRST ISSUE	
SCALE:		NO	
DESCRIPTION:		NO	
SYSTEM DRAWING		26FEB2018	
1" NPT STEEL PLUG		DATE	

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



END VIEW

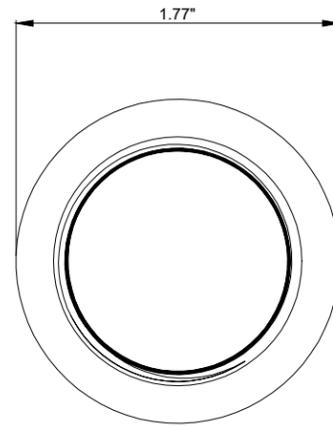


SIDE VIEW

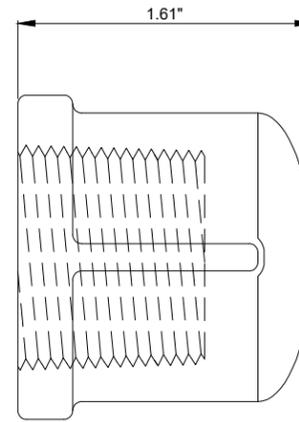
THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION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

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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

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

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

1" NPT STEEL CAP

PROJECT NO: -
SHEET NO:

SCALE: NTS

C727

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 IT 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.

NO

FIRST ISSUE

DESCRIPTION

CDL

ZX

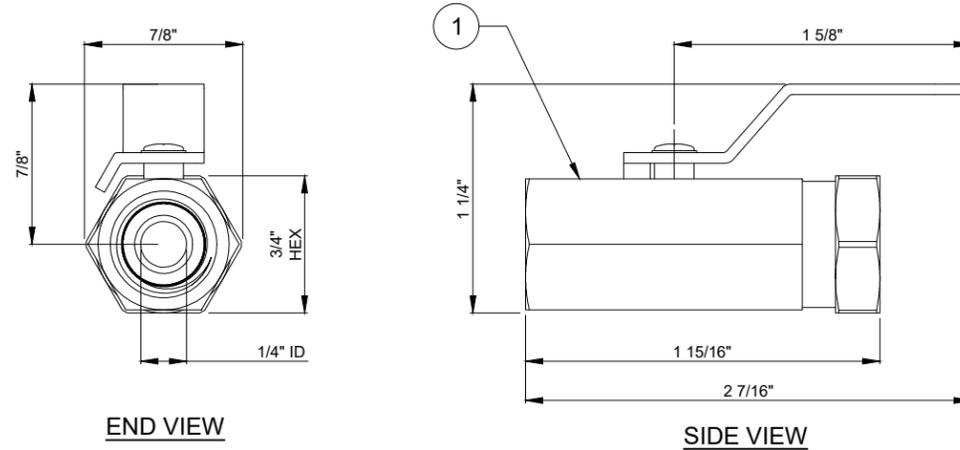
BY

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
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

NO

FIRST ISSUE

DESCRIPTION

CDL

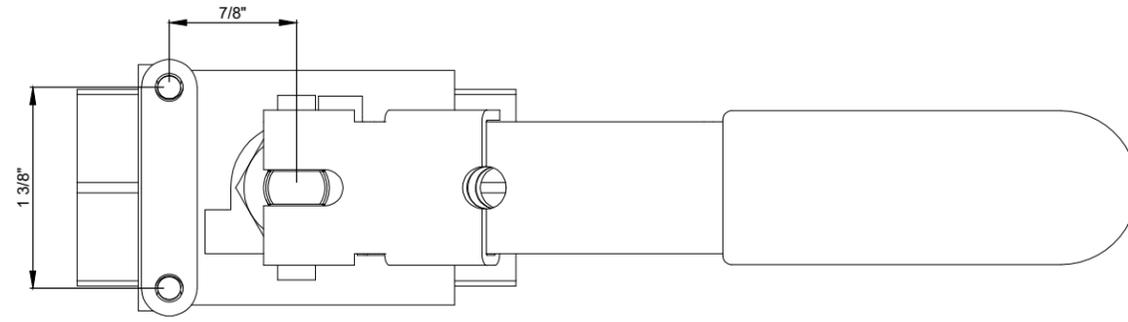
ZX

BY

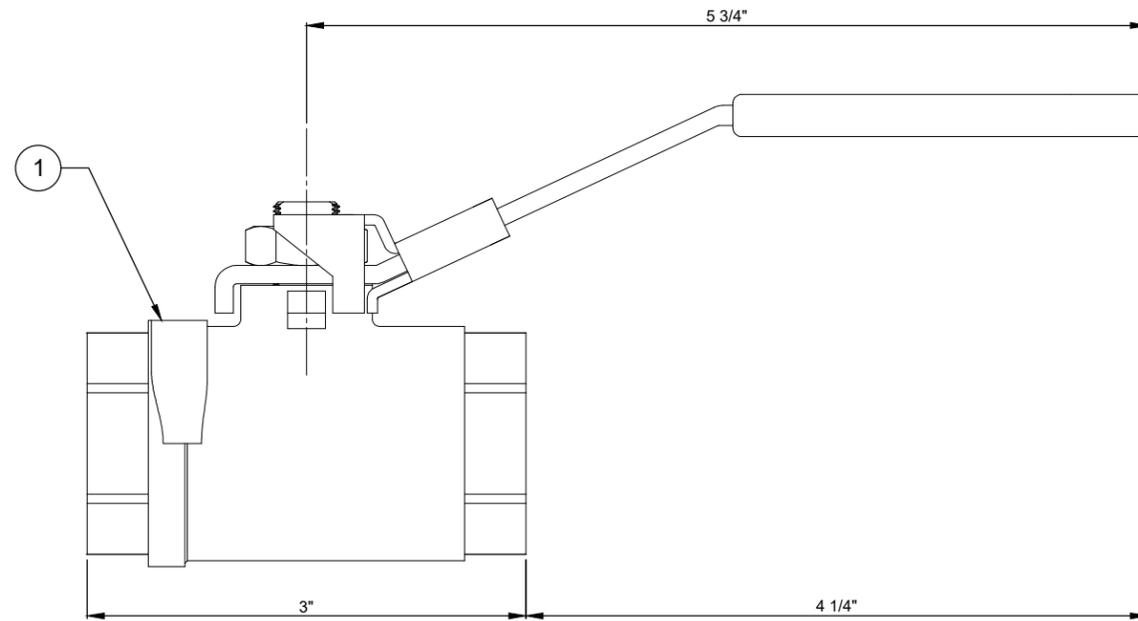
CHK

DATE

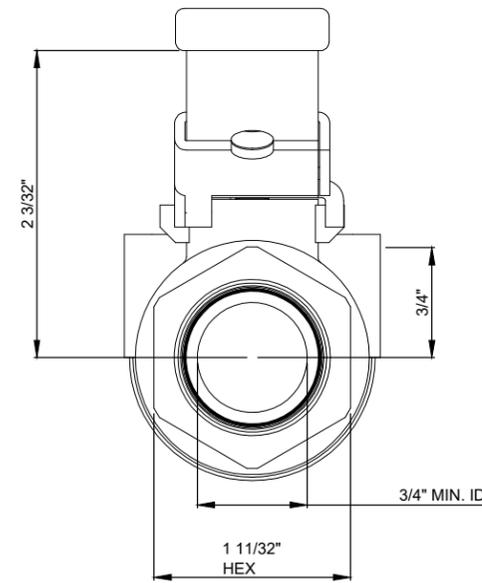
26FEB2018



TOP VIEW



SIDE VIEW

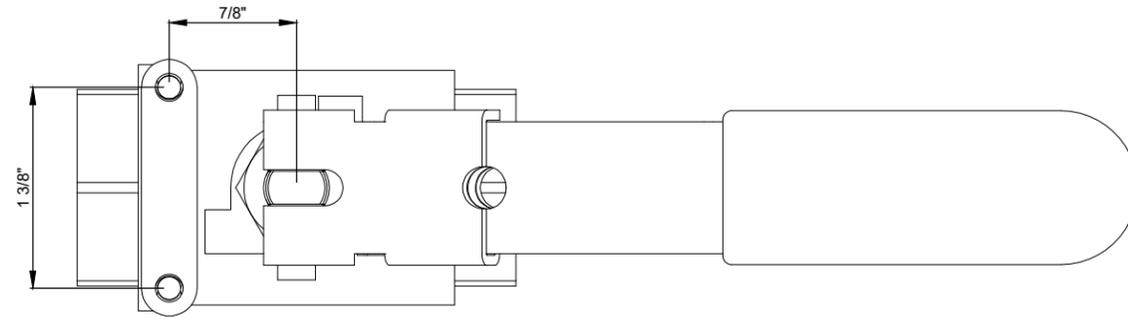


END VIEW

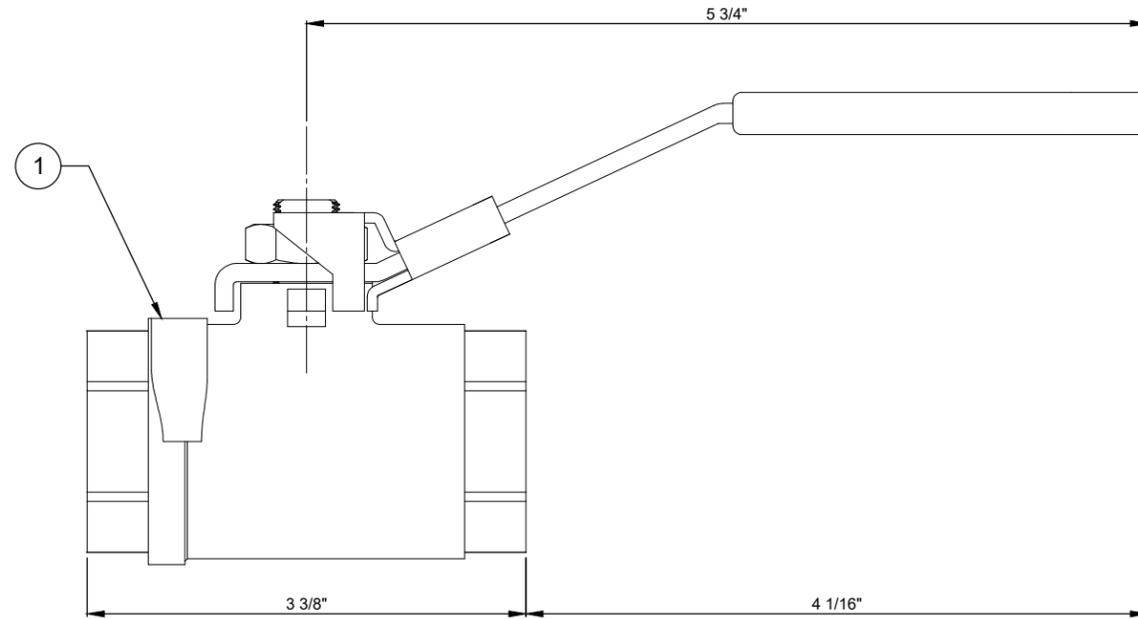
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01925

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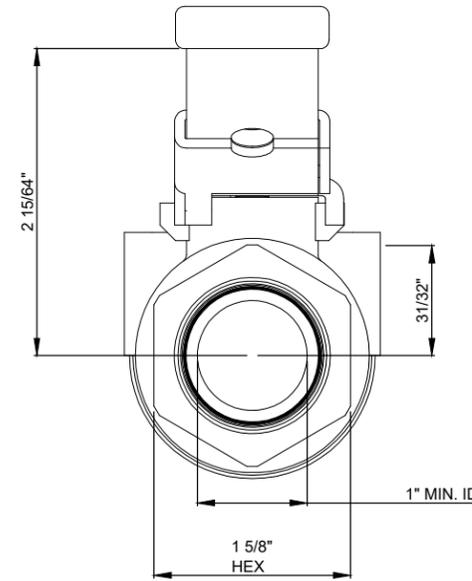
PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS STRICTLY PROHIBITED WITHOUT THE WRITTEN PERMISSION OF STRUCTURAL TECHNOLOGIES / VSL. THIS DRAWING 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	SCALE:	NTS
SHEET NO:	C745	TITLE:	3/4" NPT STEEL 1/4 TURN BALL VALVE
SYSTEM DRAWING		 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	
NO	△	FIRST ISSUE	CDL
NO	△	DESCRIPTION	BY
NO	△	DATE	ZX
NO	△	CHK	26FEB2018
NO	△	DATE	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.

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

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