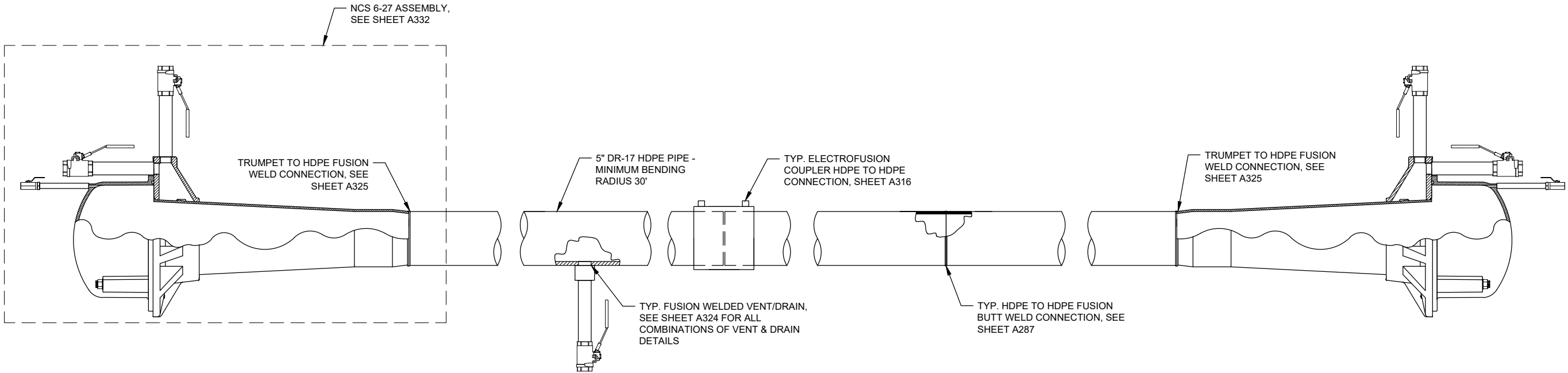


ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\NCS 6-27 Flexible Filler Submittal



OVERALL ASSEMBLY

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

PROJECT INFORMATION:		 struct'ural TECHNOLOGIES A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 10000 W. LBJ FLD., SUITE 118 FORT WORTH, TX 76165 PHONE: (817) 546-4807 FAX: (817) 546-4827 WWW.VSL.NET		THIS DOCUMENT, INCLUDING ANY DRAWINGS, SPECIFICATIONS, AND CALCULATIONS HEREIN, CONTAINS INFORMATION THAT IS PROPRIETARY TO STRUCTURAL TECHNOLOGIES / VSL. THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND MAY NOT BE REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN PERMISSION OF STRUCTURAL TECHNOLOGIES LLC ("VSL"). FURTHER, THE USE OF THIS DOCUMENT OR ANY INFORMATION PRESENTED HEREIN IS RESTRICTED TO THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO OTHER USE IS STRICTLY PROHIBITED. STRUCTURAL TECHNOLOGIES LLC ("VSL") DISCLAIMS ANY LIABILITY FOR ANY IMPERMISSIBLE USE OF THIS DOCUMENT OR ANY INFORMATION IT CONTAINS.				
PROJECT NO:	---	TITLE:		FIRST ISSUE		CDL	ZX	14MAR2018
SHEET NO:		SCALE:		DESCRIPTION		BY	CHK	DATE
		NCS 6-27 OVERALL ASSEMBLY WITH FLEXIBLE FILLER		NO				

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technologies

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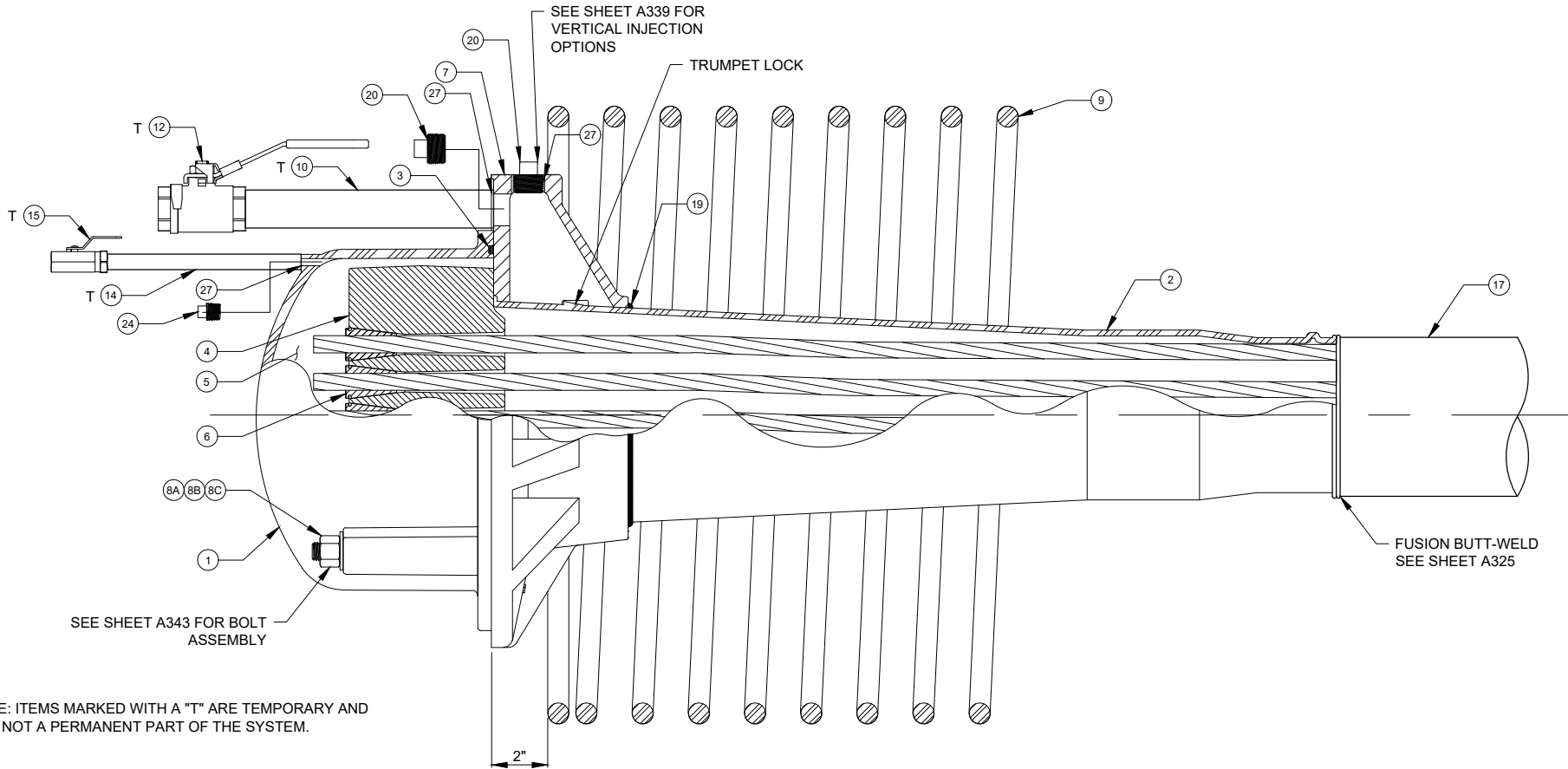
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NOTE: ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.



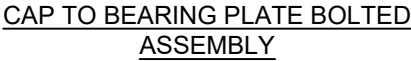
ELEVATION VIEW

1. ASSEMBLE TRUMPET INTO THE BEARING PLATE. APPLY 1/4" BONDUIT ALL AROUND LIP OF BEARING PLATE PRIOR TO INSTALLING TRUMPET. USE SLOT TO ALIGN PLATE AND TRUMPET. INSERT TRUMPET UNTIL LOCKING TABS ENGAGE.
2. 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.
3. INSTALL AND SECURE SPIRAL.
4. 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).
5. SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.
6. SYSTEM IS NOW READY TO AIR TEST.
7. AFTER CONCRETE PLACEMENT PER THE FOOT SPECIFICATION SECTION 462-8.2.2, A SECOND AIR PRESSURE TEST IS REQUIRED AFTER CONCRETE PLACEMENT AND PRIOR TO STRAND INSTALLATION.
8. INSTALL STRAND. LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.
9. INSTALL ANCHOR HEADS. MAKE SURE WEDGE CAVITIES ARE CLEAN AND RUST FREE. USE WIRE BRUSH TO CLEAN IF NECESSARY.
10. ONLY STRESS STRANDS IF CONCRETE HAS REACHED REQUIRED STRENGTH SPECIFIED ON DRAWINGS.
11. ELONGATION SHOULD BE WITHIN $\pm 7\%$.
12. AFTER ENGINEERS APPROVAL, STRAND TAILS MAY BE CUT.
13. AFTER FORM WORK IS REMOVED, USE MOUNTING BOLTS TO INSTALL ANCHORAGE CAP. REINSTALL O-RING INTO ANCHORAGE CAP.
14. WAX TENDON PER WAX SPEC.

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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	6-31 ANCHORAGE CAP W/ 1/4" FRONT PORT	ABS	02GC63102
2	1	NCS 6-31 TRUMPET	POLYETHELYNE	02BP4436
3	1	6-31 ANCHORAGE CAP O-RING	HNBR	02WX5042
4	1	NCS 6-27 ANCHOR HEAD CAST	A536 GR80-55-06	02AH6031A
5	-	FLEXIBLE FILLER	FDOT APL	-
6	27	1.6G WEDGE .6 1.77 W/GROOVE	AISI 11-L-17/12-L-14	02WG0008
7	1	NCS 6-31 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR80-55-06	02BP6031V
8A	1 SET	5/8"-11 THREADED ROD X 7"	(316L) STAINLESS	02WX6023D
8B	1 SET	5/8"-11 NUT	(316L) STAINLESS	02WX6023D
8C	1 SET	5/8" WASHER	(316L) STAINLESS	02WX6023D
9	1	SPIRAL NCS 6-31 (#6, DIA. 22", 2" PITCH, 9 TURNS)	A615, GR 60	02BP0098
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
17	-	5" DR-17 PIPE	HDPE	-
19	-	BONDUIT - SEAL AID 1/4" ALL AROUND	-	-
20	1	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958
24	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
27	-	SILICONE GREASE	-	-

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PROJECT NO:	---					
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SYSTEM DRAWING		STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 1580 TRINITY BLVD., SUITE 118 FORT WORTH, TX 76135		Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL		
TITLE:		STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 1580 TRINITY BLVD., SUITE 118 FORT WORTH, TX 76135		PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET		
NCS 6-27 ASSEMBLY WITH FLEXIBLE FILLER		0		FIRST ISSUE		CDL
SCALE:		NTS		BY		CHK
A332						14MAR2018



5/8"-11 NUT

5/8" WASHER

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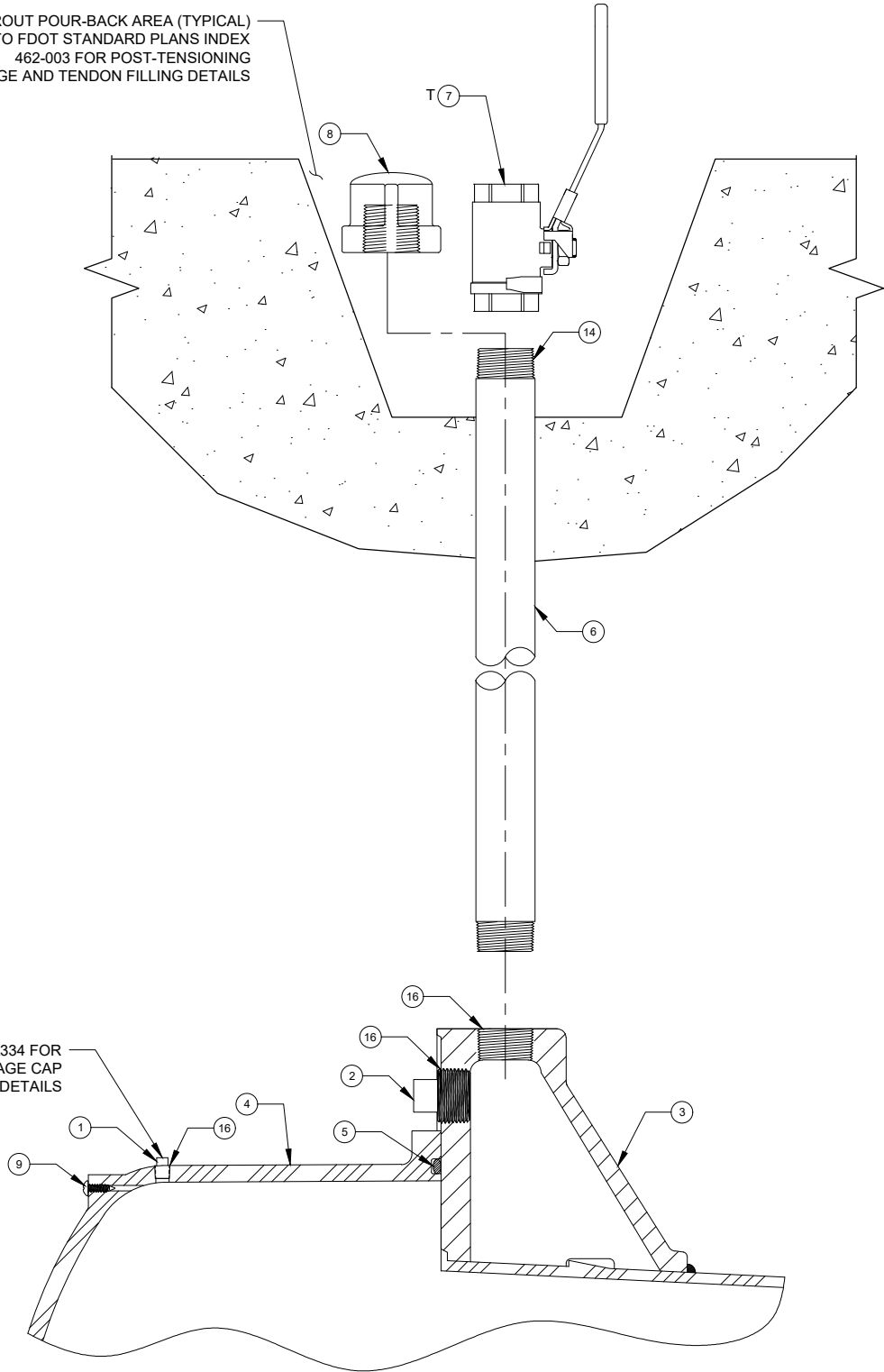


structural
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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
2	1	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958
3	1	NCS 6-31 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)	A536 GR80-55-06	02BP6031V
4	1	6-31 ANCHORAGE CAP W/ 1/4" TOP PORT	ABS	02GC63103
5	1	6-31 ANCHORAGE CAP O-RING	HNBR	02WX5042
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	-	-

SEE SHEET A334 FOR
ANCHORAGE CAP
VENTING DETAILS

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



- 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

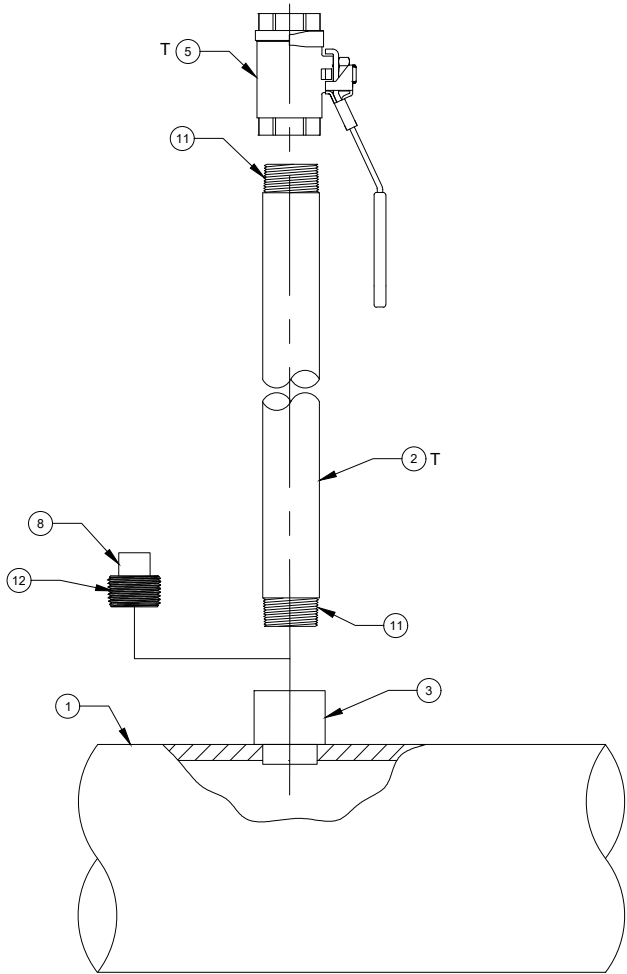
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PROJECT INFORMATION:		SYSTEM DRAWING		PROJECT NO: 11		SHEET NO: A339	
		TITLE: NCS 6-31 VERTICAL INJECTION OPTIONS		SCALE: NTS			
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				CDL		BY	
				ZX		CHK	
				26FEB2018		DATE	

ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\NCS 6.31 Flexible Filler Submittal

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #
1	-	5" DR-17 PIPE	HDPE	-
2	1	3/4" NPT STEEL NIPPLE	SCH 40 STEEL	-
3	1	3/4" FNPT SMOOTH GROUT PORT	POLYETHELYNE	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
11	-	SILICONE GREASE	-	-
12	-	BONDUIT	-	-

EXTERNAL OPTION

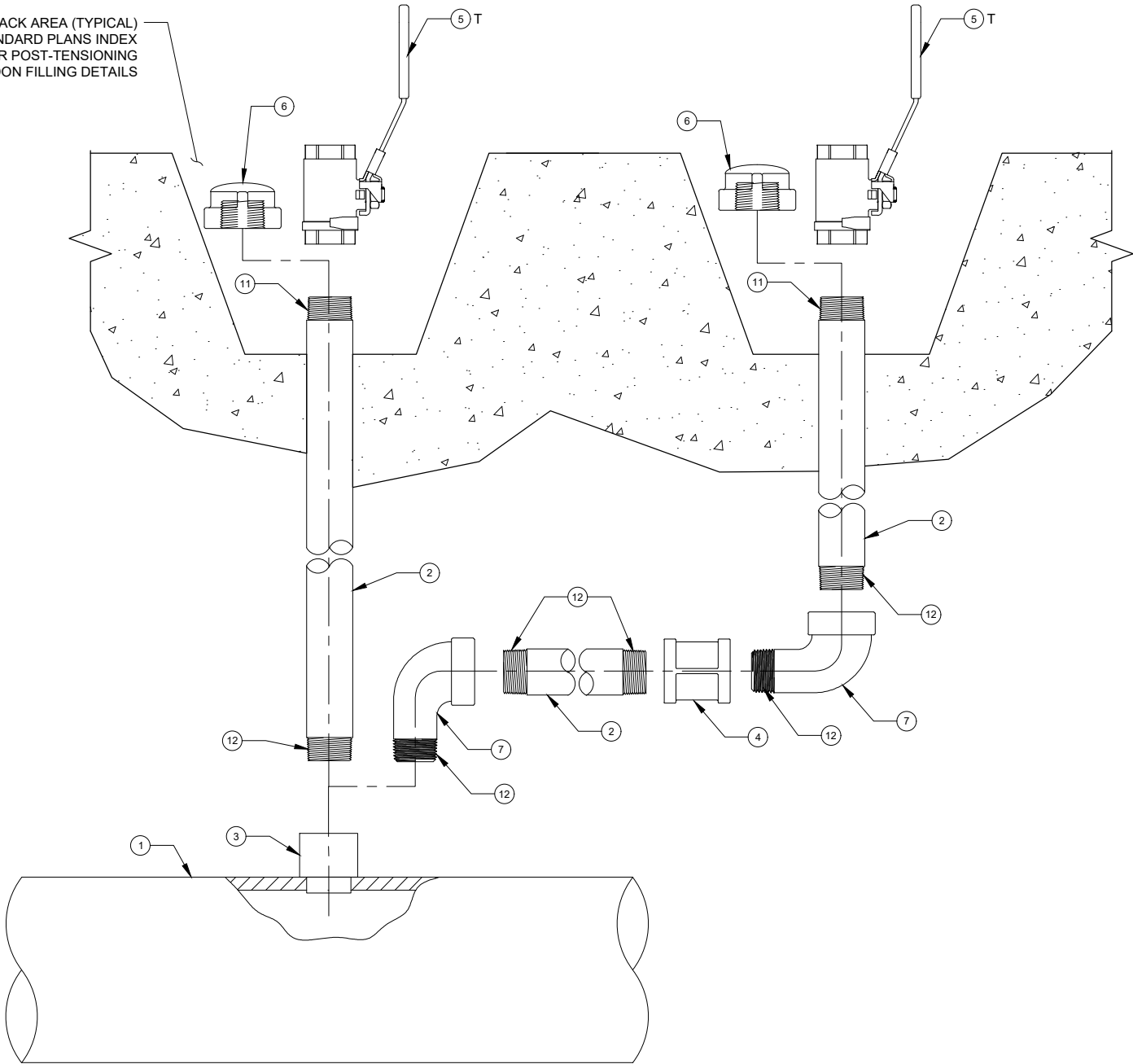


- 3/4" FNPT SMOOTH GROUT PORT INSTALLATION**
- CLEAN PIPE PRIOR TO GROUT PORT INSTALLATION.
 - DRILL Ø7/8" HOLE INTO PIPE.
 - CONNECT THE SOCKET WELDING DEVICE TO THE POWER SOURCE.
 - ALLOW THE SOCKET WELDING DEVICE TO REACH ITS WORKING TEMPERATURE.
 - SIMULTANEOUSLY, INSERT MALE ADAPTER OF SOCKET WELDING DEVICE FROM DRILLED HOLE AND GROUT PORT FROM FEMALE ADAPTER.
 - APPLY LIGHT PRESSURE FOR 20-25 SECONDS BY PUSHING THE GROUT PORT WITH THE PALM OF HAND.
 - SIMULTANEOUSLY, REMOVE SOCKET WELDING DEVICE FROM DRILLED HOLE AND GROUT PORT FROM FEMALE ADAPTER.
 - INSERT GROUT PORT INTO HOLE UNTIL THE SHOULDER IS REACHED.
 - 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**
- ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.
 - THIS ASSEMBLY CAN BE APPLIED IN ANY REQUIRED ORIENTATION TO CREATE EITHER A VENT OR A DRAIN.
 - 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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EPOXY GROUT POUR-BACK AREA (TYPICAL)
- REFER TO FDOT STANDARD PLANS INDEX
462-003 FOR POST-TENSIONING
ANCHORAGE AND TENDON FILLING DETAILS



INTERNAL OPTION

PROJECT INFORMATION:		 struct'ural Technologies <i>A Structural Group Company</i> Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 10000 W. 17TH BLVD, SUITE 118 FORT WORTH, TX 76165 PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET		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 RESTRICTED TO THE SITE FOR WHICH IT WAS PROVIDED BY VSL. VSL AND/OR SERVICE PROVIDED BY VSL. STRUCTURAL TECHNOLOGIES / VSL ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.					
SYSTEM DRAWING									
TITLE:									
PROJECT NO:	---	5" HDPE PIPE VENT ASSEMBLY		FIRST ISSUE		CDL	ZX	26FEB2018	
SCALE:		NTS		NO		BY		CHK	DATE
SHEET NO:		A324							



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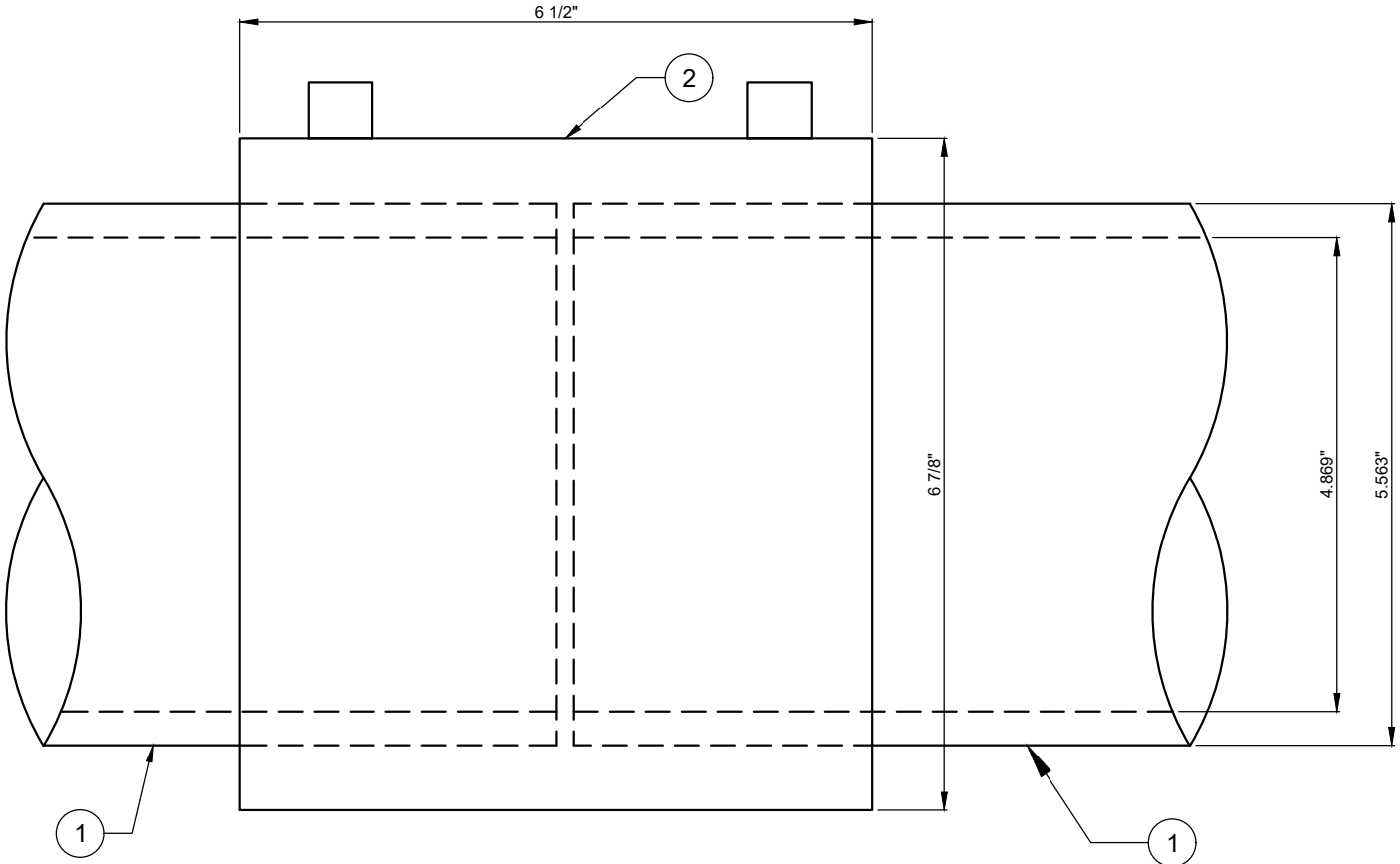
ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\NCS 631 Flexible Filler Submittal

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

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

NOTE:
FOLLOW COUPLER MANUFACTURER'S
INSTALLATION INSTRUCTIONS

ITEM	QTY	DESCRIPTION	MATERIAL
1	-	5" HDPE PIPE DR-17	ASTM D3035
2	1	5" ELECTROFUSION COUPLER	COMPOSITE



ELEVATION VIEW

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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
5" HDPE PIPE TO 5" HDPE PIPE
ELECTROFUSION COUPLER CONNECTION

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:
A316



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FIRST ISSUE

DESCRIPTION

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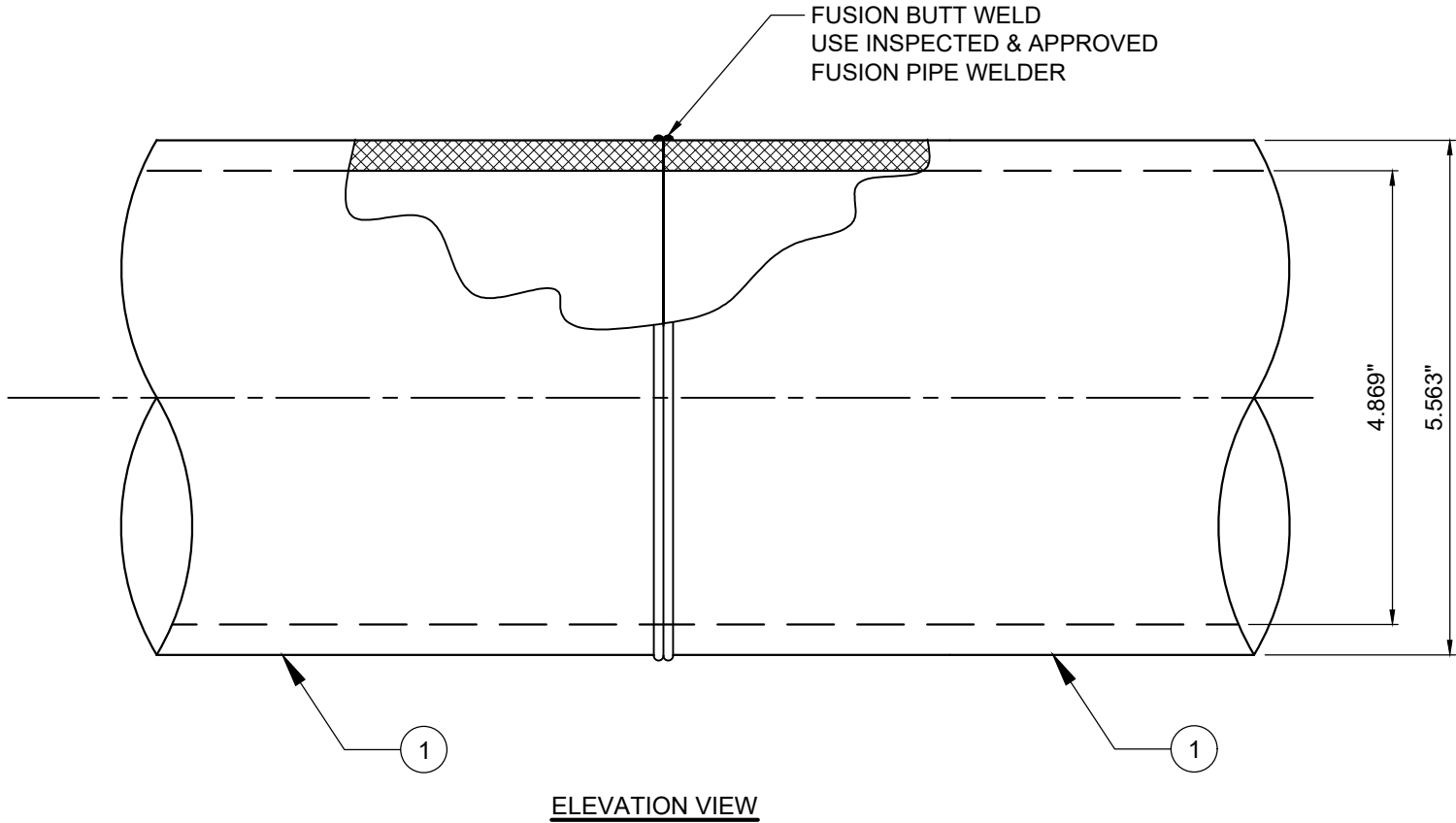
CHK

26FEB2018

DATE

ITEM	QTY	DESCRIPTION	MATERIAL
1	2	5" HDPE PIPE DR-17	ASTM D3035

- NOTES:
- HDPE 5" IPS/DR-17 MEETS FDOT 960 SPEC.
 - SEE VSL BUTT-WELDING PROCEDURE IN APPENDIX



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	PROJECT NO:	SYSTEM	TITLE BLOCK UPDATED		CDL	ZX	26FEB2018
	SHEET NO:		APPROVED FOR CONSTRUCTION		GB	MM	04APR2011
	TITLE:		DESCRIPTION		NO	CHK	DATE
	TYPICAL 5" HDPE PIPE TO 5" HDPE PIPE FUSION WELDED CONNECTION				BY	CHK	DATE

structural

technologies

A Structural Group Company

vsl

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15800 TRINITY BLVD., SUITE 118

FORT WORTH, TX 76155

STRUCTURAL TECHNOLOGIES, LLC

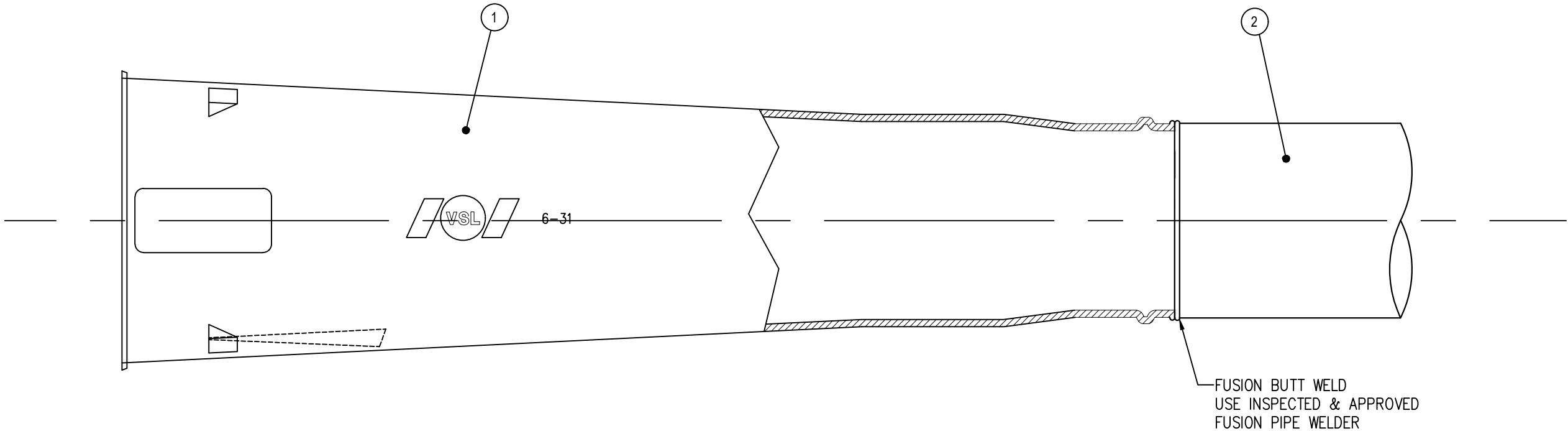
PHONE: (817) 545-4807

FAX: (817) 545-4827

WWW.VSL.NET

PLOT DATE/TIME: 27Feb2018 3:10 PM FILE NAME: A287 5" HDPE TO 5" HDPE Fusion Weld Rev 1.dwg

A287



TRUMPET TO HDPE PIPE ASSEMBLY

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
2	-	5" HDPE PIPE	HDPE	-
1	1	NCS 6-31 TRUMPET	HDPE	02BP4436

- NOTES:
1. HDPE 5" IPS/DR-17 MEETS FDOT 960 SPEC.
2. SEE VSL BUTT-WELDING PROCEDURE IN 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.

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
TYPICAL NCS 6-31 TRUMPET TO HDPE PIPE BUTT
FUSION CONNECTION

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:
A325

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**structural
technologies**
A Structural Group Company

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

STRUCTURAL TECHNOLOGIES, LLC
DALLAS OFFICE
15800 TRINITY BLVD., SUITE 118
FORT WORTH, TX 76155

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

NO

DESCRIPTION

CDL

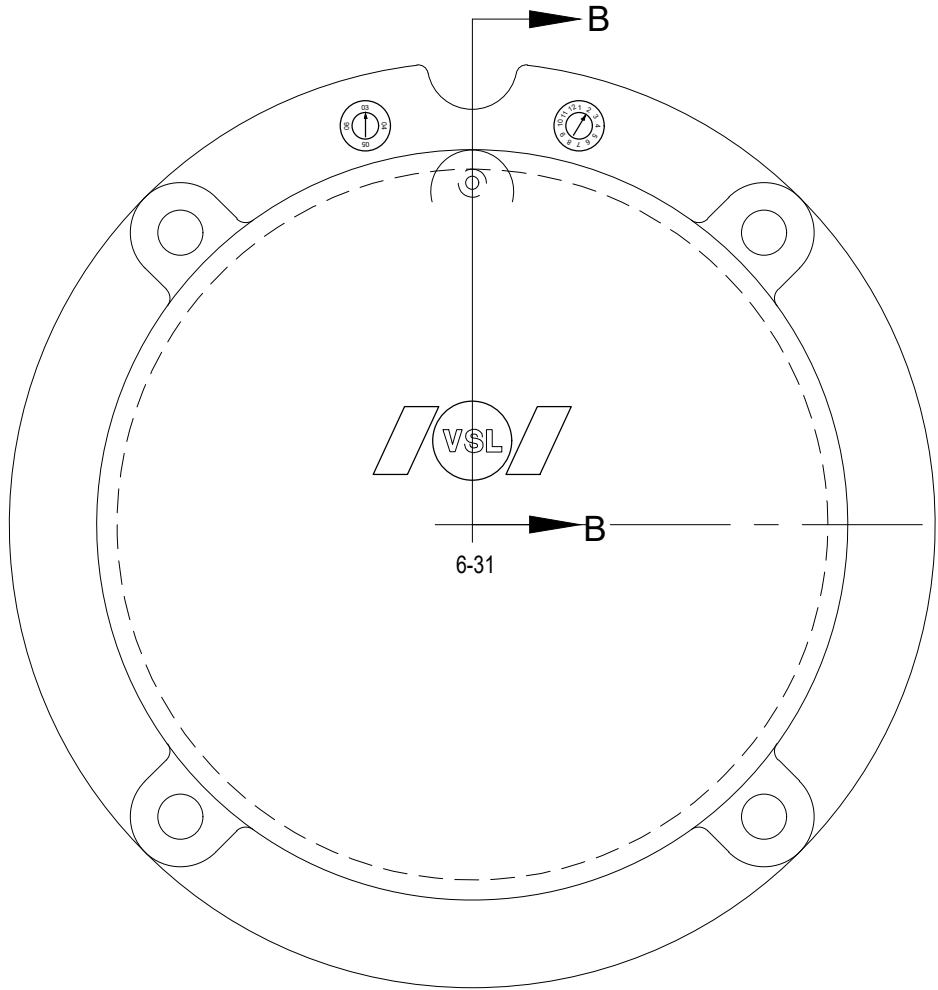
BY

ZX

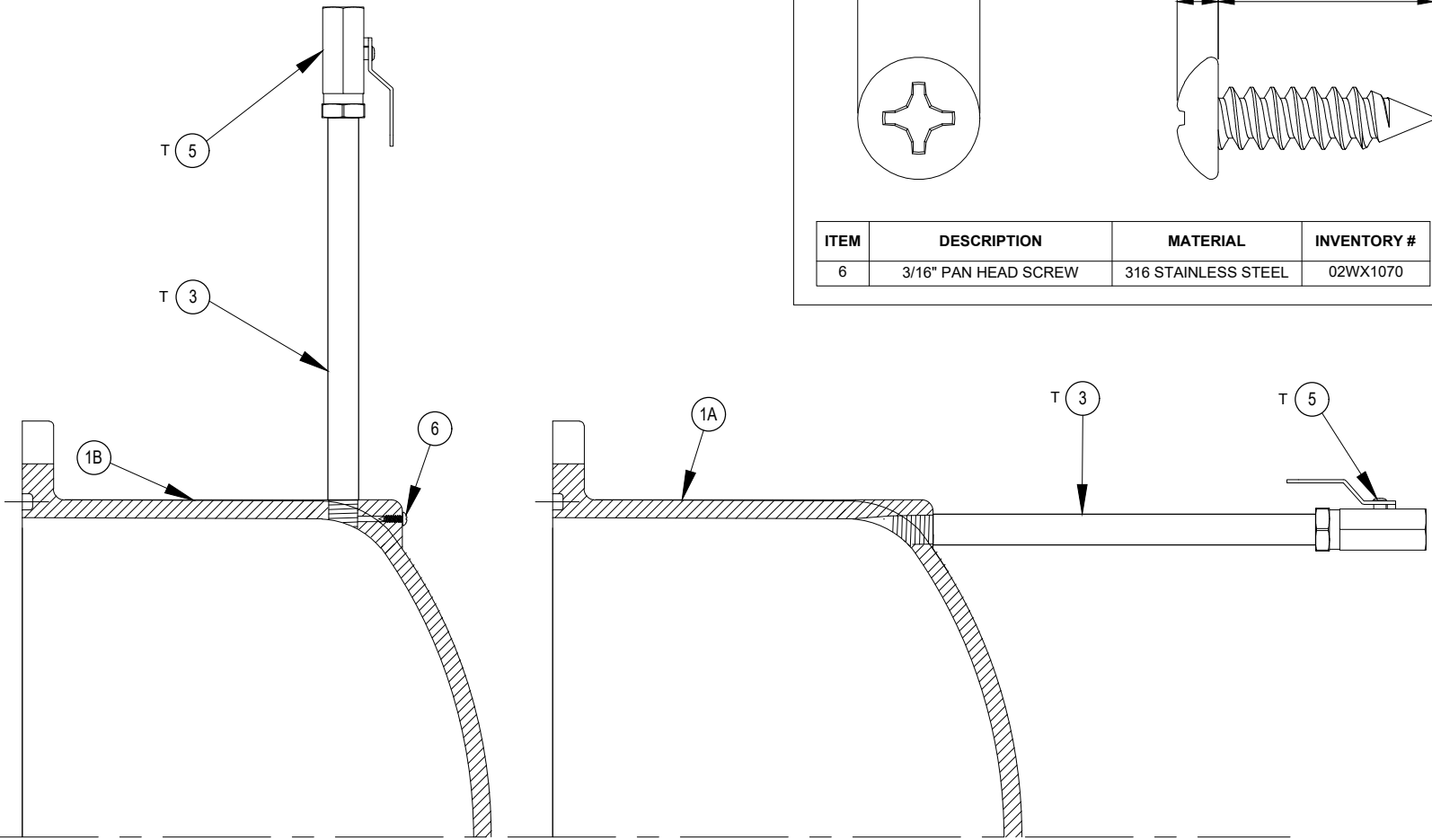
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26FEB2018

DATE



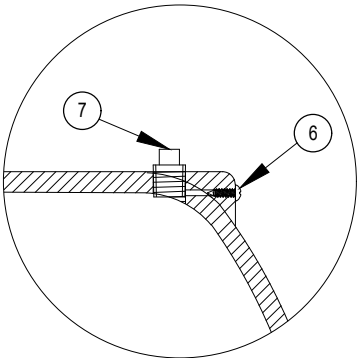
6-31 ANCHORAGE CAP



SECTION B-B

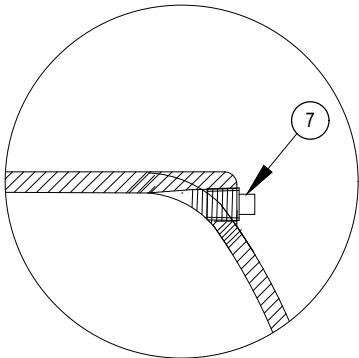
NOTE: ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.

TOP PORT



AFTER WAX

FRONT PORT



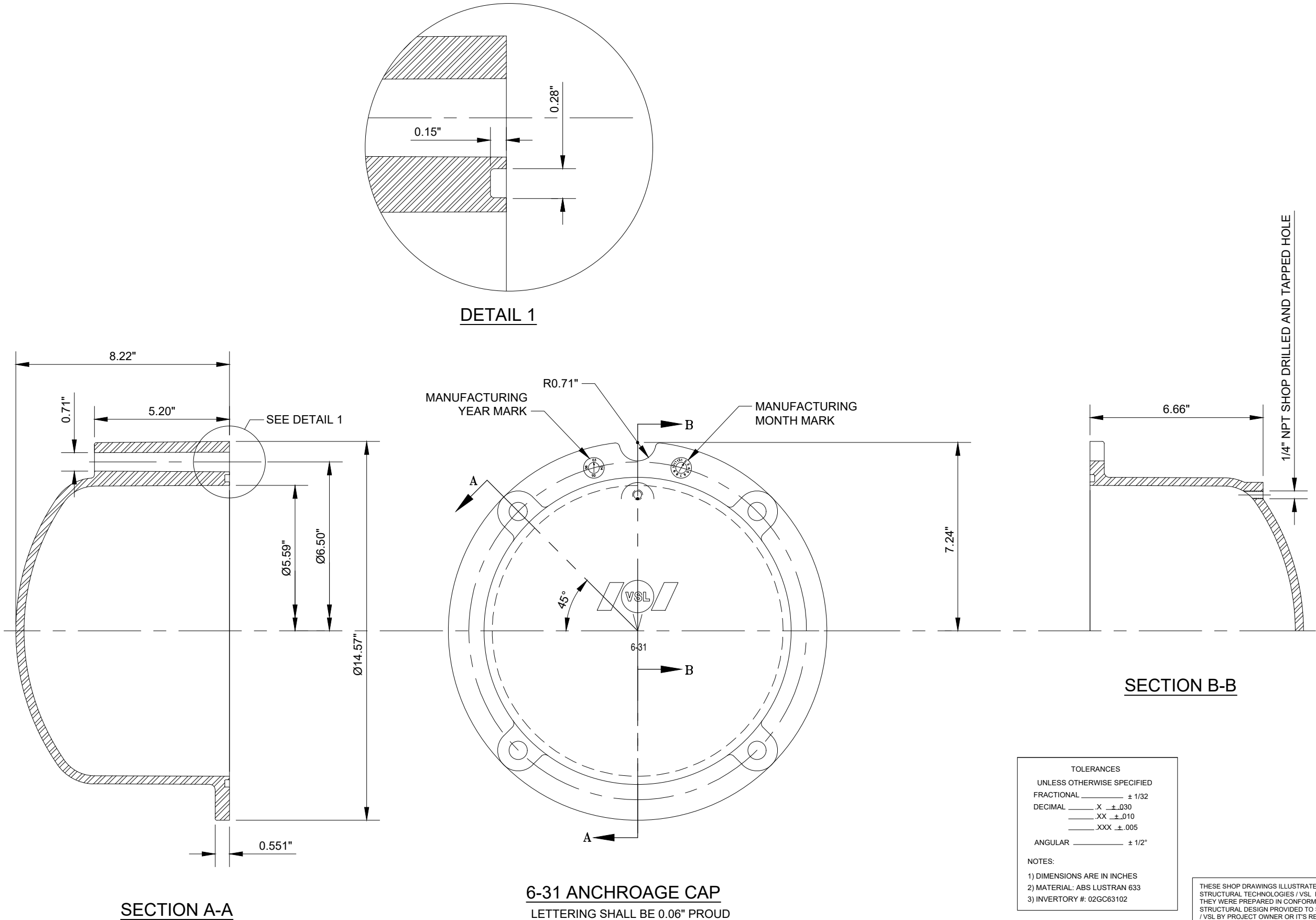
AFTER WAX

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY No.
7	1	1/4"Ø NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
6	1	3/16" PAN HEAD SCREW	316 STAINLESS STEEL	02WX1070
5	1	1/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924
3	1	1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-
1B	1	6-31 ANCHORAGE CAP W/ 1/4" TOP PORT	ABS	02GC63103
1A	1	6-31 ANCHORAGE CAP W/ 1/4" FRONT PORT	ABS	02GC63102

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PROJECT INFORMATION:		SYSTEM DRAWING		STRUCTURAL TECHNOLOGIES A Structural Group Company VSL Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15800 TRINITY BLVD., SUITE 118 FORT WORTH, TX 76155 PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET		THIS DOCUMENT, INCLUDING ANY DRAWINGS, SPECIFICATIONS, AND CALCULATIONS HEREIN, CONTAINS INFORMATION THAT IS PROPRIETARY TO STRUCTURAL TECHNOLOGIES / VSL. THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND MAY NOT BE REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN PERMISSION OF STRUCTURAL TECHNOLOGIES / VSL. FURTHER, THE USE OF THIS DOCUMENT OR ANY INFORMATION PRESENTED HEREIN IS RESTRICTED TO THE PROJECT AND SITE SPECIFIC FOR WHICH IT WAS PREPARED. ANY OTHER USE IS STRICTLY PROHIBITED. STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY FOR ANY IMPERMISSIBLE USE OF THIS DOCUMENT OR ANY INFORMATION IT CONTAINS.					
						2	TITLE BLOCK UPDATED		CDL	ZX	26FEB2018
						1	VENT DETAILS		DTS	DD	03JUL2012
						0	3/4" GROUT PORTS		DTS	DD	18MAY2012
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PROJECT NO:		SYSTEM		SCALE:		NTS					
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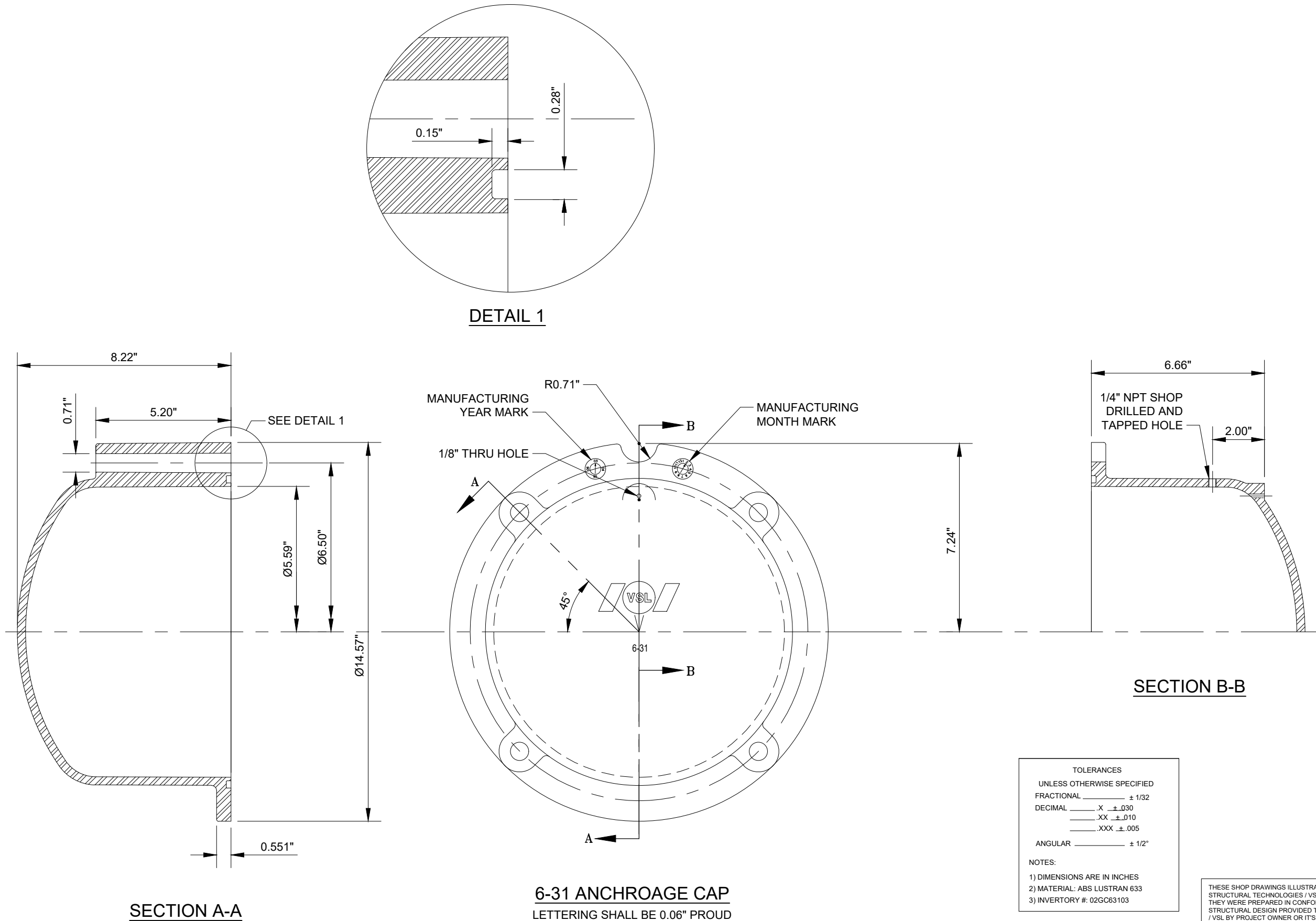
ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\NCS 631 Flexible Filler Submittal



6-31 ANCHROAGE CAP
LETTERING SHALL BE 0.06" PROUD

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SYSTEM DRAWINGS													
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SHEET NO:													
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C551													

ELECTRONIC FILE LOCATION: I:\VSL System Drawings\Work in Progress Drawings\Florida DOT Test 2017\NCS 6-31 Flexible Filler Submittal



SECTION A-A

DETAIL 1

SECTION B-B

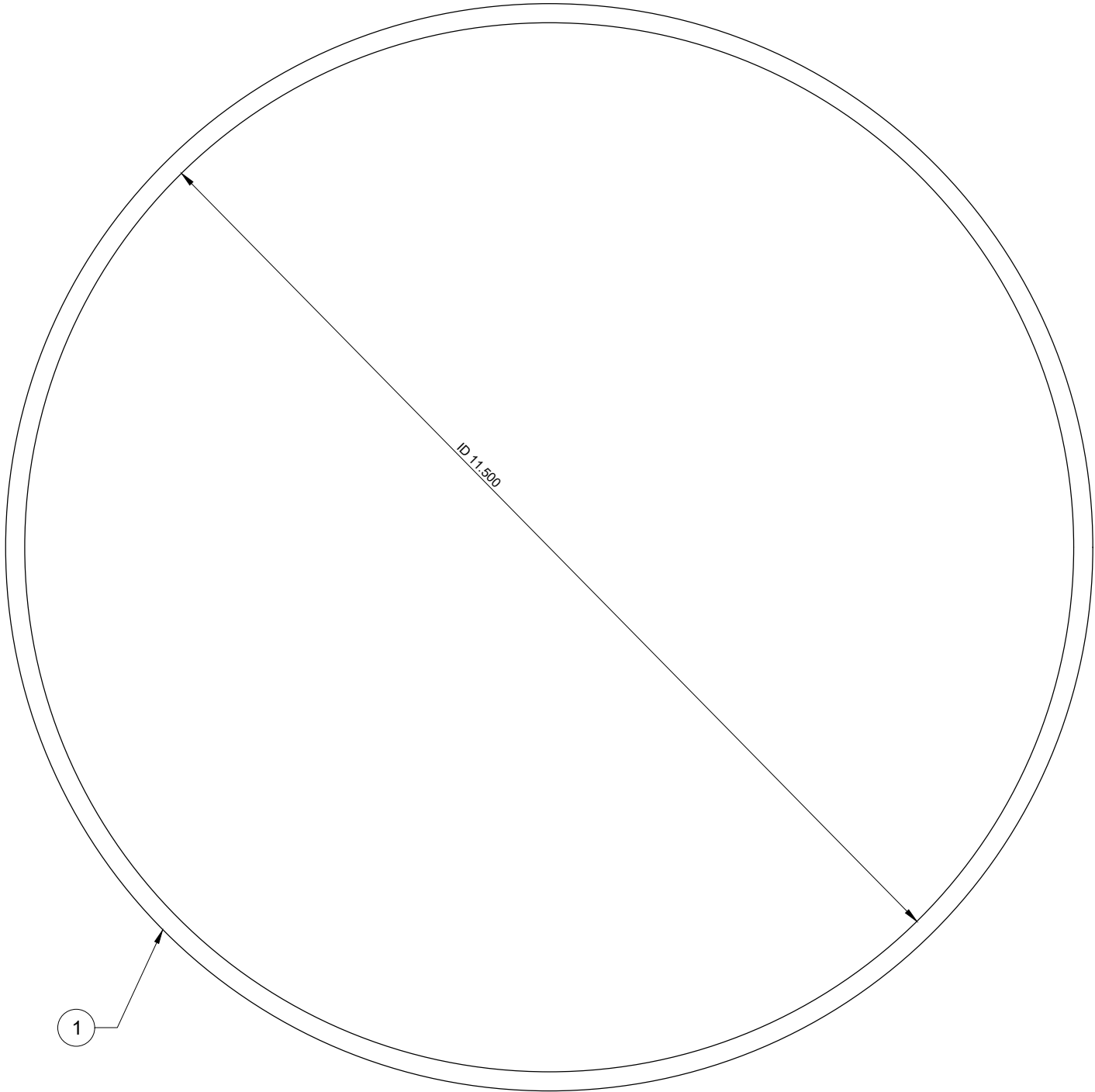
6-31 ANCHROAGE CAP
LETTERING SHALL BE 0.06" PROUD

TOLERANCES	
UNLESS OTHERWISE SPECIFIED	
FRACTIONAL	± 1/32
DECIMAL	± .030
.X	± .010
.XX	± .005
.XXX	± .005
ANGULAR	± 1/2°
NOTES:	
1) DIMENSIONS ARE IN INCHES	
2) MATERIAL: ABS LUSTRAN 633	
3) INVERTORY #: 02GC63103	

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PROJECT NO:		SCALE:		NTS		C733											
SHEET NO:		TITLE:		6-31 ANCHORAGE CAP W/ 1/4" NPT TOP PORT		SCALE:		NTS		DESCRIPTION		BY		CHK		DATE	
PROJECT NO:		SCALE:		NTS		C733											
SHEET NO:		TITLE:		6-31 ANCHORAGE CAP W/ 1/4" NPT TOP PORT		SCALE:		NTS		DESCRIPTION		BY		CHK		DATE	
PROJECT NO:		SCALE:		NTS		C733											
SHEET NO:		TITLE:		6-31 ANCHORAGE CAP W/ 1/4" NPT TOP PORT		SCALE:		NTS		DESCRIPTION		BY		CHK		DATE	
PROJECT NO:		SCALE:		NTS		C733											
SHEET NO:		TITLE:		6-31 ANCHORAGE CAP W/ 1/4" NPT TOP PORT		SCALE:		NTS		DESCRIPTION		BY		CHK		DATE	
PROJECT NO:		SCALE:		NTS		C733											
SHEET NO:		TITLE:		6-31 ANCHORAGE CAP W/ 1/4" NPT TOP PORT		SCALE:		NTS		DESCRIPTION		BY		CHK		DATE	
PROJECT NO:		SCALE:		NTS		C733											
SHEET NO:		TITLE:		6-31 ANCHORAGE CAP W/ 1/4" NPT TOP PORT		SCALE:		NTS		DESCRIPTION		BY		CHK		DATE	
PROJECT NO:		SCALE:		NTS		C733											
SHEET NO:		TITLE:		6-31 ANCHORAGE CAP W/ 1/4" NPT TOP PORT		SCALE:		NTS		DESCRIPTION		BY		CHK		DATE	
PROJECT NO:		SCALE:		NTS		C733											
SHEET NO:		TITLE:		6-31 ANCHORAGE CAP W/ 1/4" NPT TOP PORT		SCALE:		NTS		DESCRIPTION		BY		CHK		DATE	
PROJECT NO:		SCALE:		NTS		C733											
SHEET NO:		TITLE:		6-31 ANCHORAGE CAP W/ 1/4" NPT													

ITEM	QTY	DESCRIPTION	MATERIAL	SIZE	INVENTORY#
1	-	6-31 ANCHORAGE CAP O-RING	HNBR	11.5"x12"x0.25"	02WX5042



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:

PROJECT NO:	SYSTEM
SHEET NO:	C719

SCALE:
NTS

SYSTEM DRAWING

TITLE:
6-31 ANCHORAGE CAP O-RING



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

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

PHONE: (817) 545-4807
FAX: (817) 545-4827
WWW.VSL.NET

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NO

FIRST ISSUE

DESCRIPTION

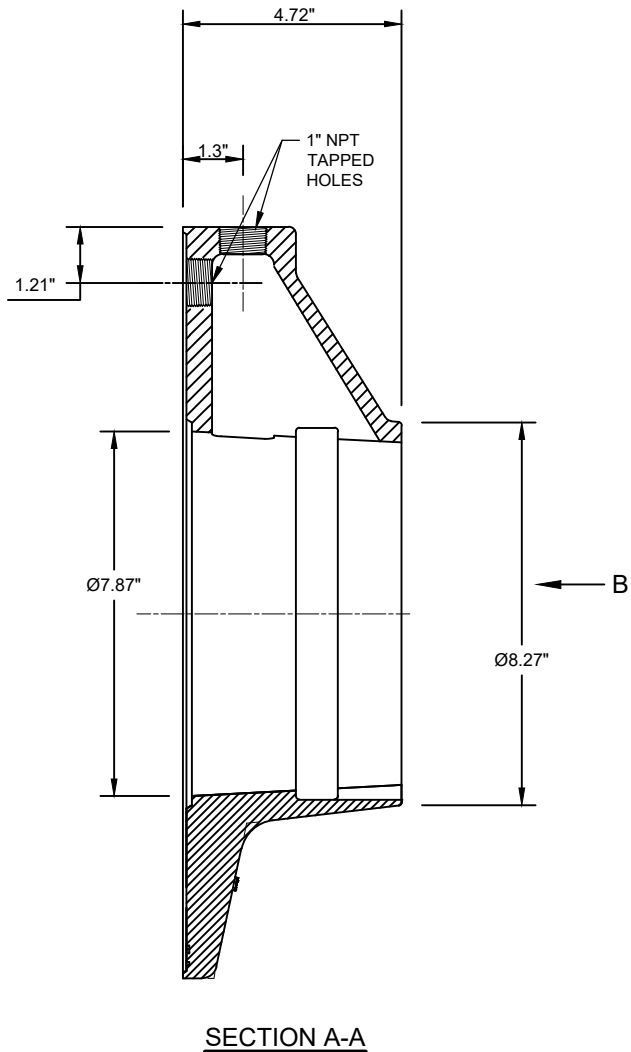
CDL

BY

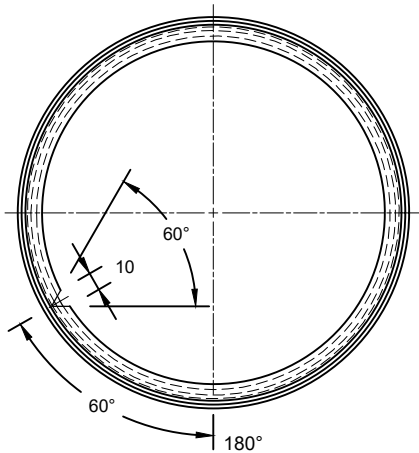
CHK

26FEB2018

DATE



SECTION A-A

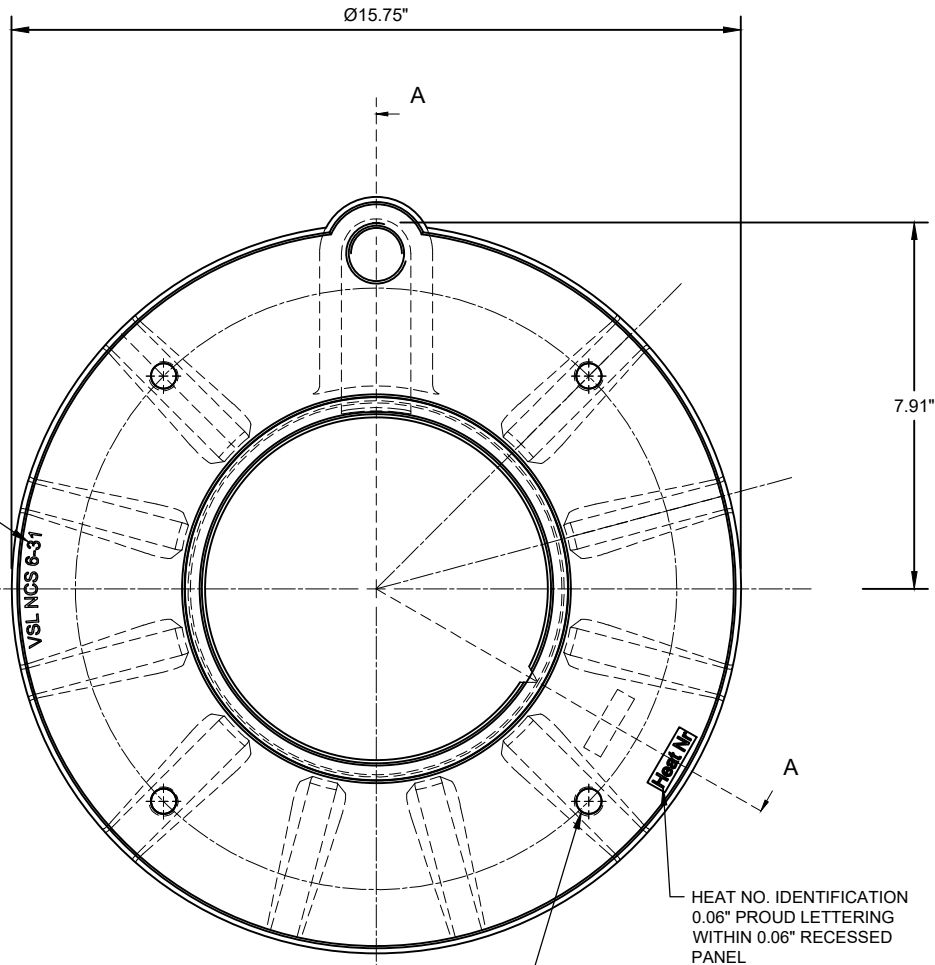


VIEW B

GENERAL NOTES

1. ALL HOLES TO BE FREE FROM BURRS
2. MATERIAL: A536 GR80-55-06 GALVANIZED
3. INVENTORY# 02BP6031V

TYPE IDENTIFICATION
LETTERING 0.06"
RECESSED

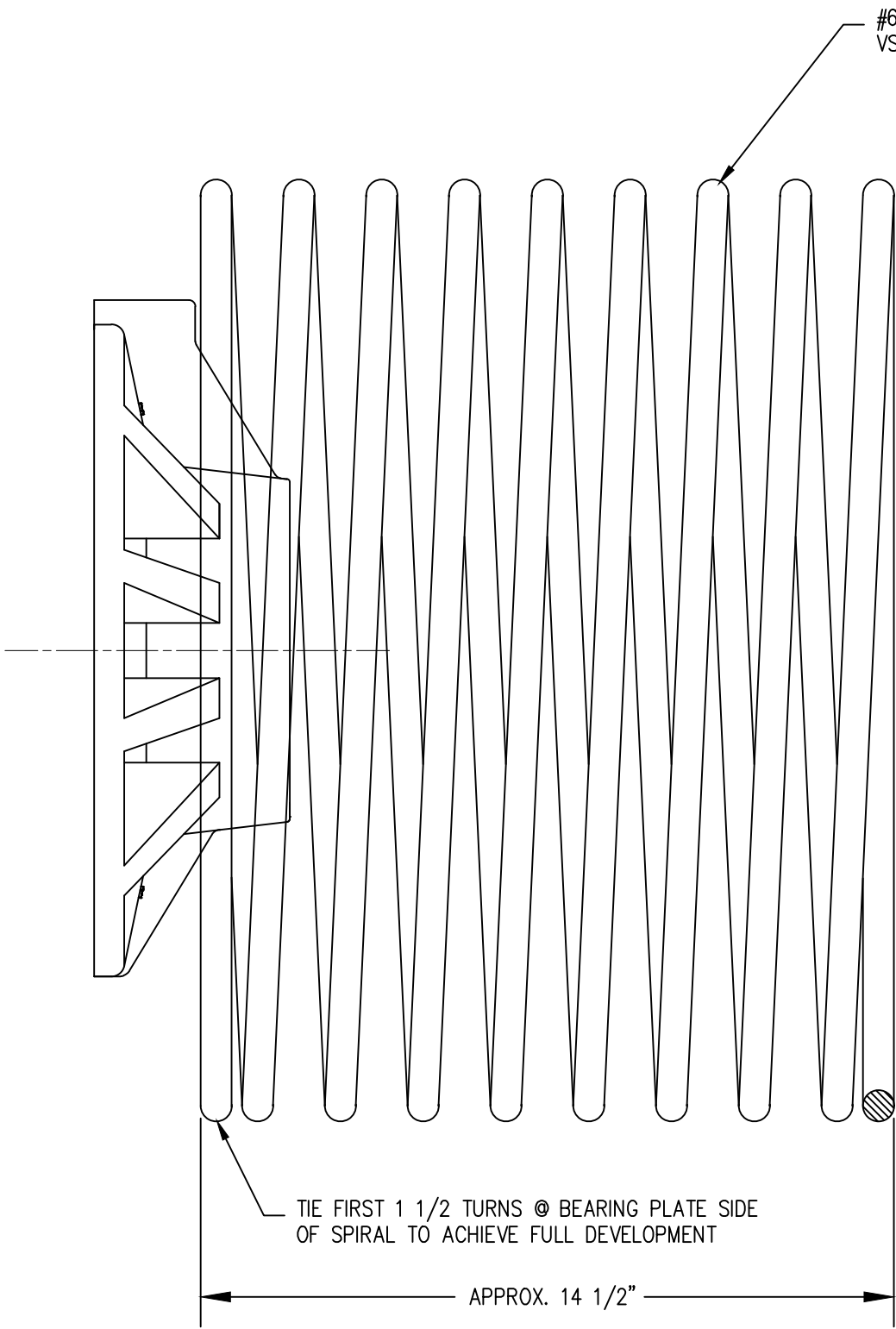


BACK VIEW

TAP 5/8"-11 UNC X 1" DP. 4
PLS. EQ. SPACED ON
Ø12.992" B.C.

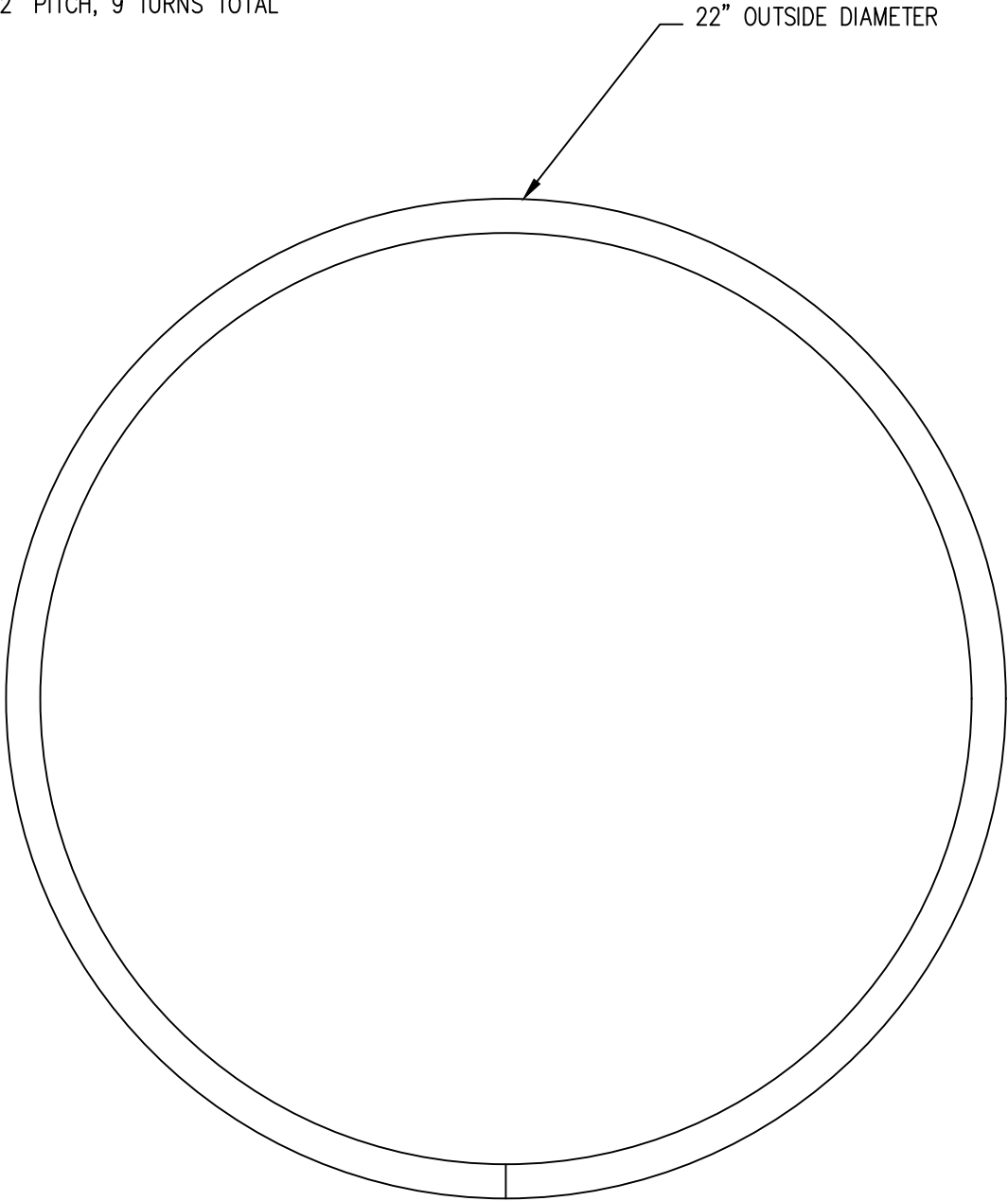
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PROJECT INFORMATION:		structural TECHNOLOGIES A Structural Group Company VSL Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 1506 TRINITY BLVD., SUITE 118 FORT WORTH, TX 76155 PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET		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 PROHIBITED WITHOUT THE WRITTEN CONSENT OF STRUCTURAL TECHNOLOGIES / VSL. AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.		NO		PRELIMINARY NOT FOR PRODUCTION		CDL		ZX		26FEB2018	
SYSTEM DRAWING		TITLE:		NCS 6-31 BEARING PLATE W/ 1" NPT PORT		DESCRIPTION		BY		CHK		DATE			
PROJECT NO: SYSTEM		SCALE: NTS		SHEET NO: C735											



PLAN VIEW

#6, ASTM A615 60 KSI REBAR, Ø22", 2" PITCH, 9 TURNS TOTAL
VSL INVENTORY# 02BP0098

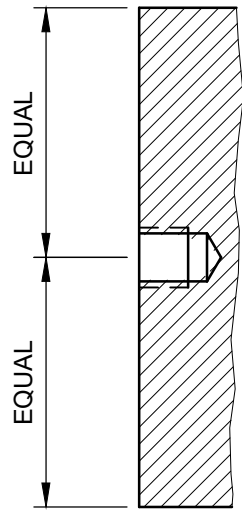
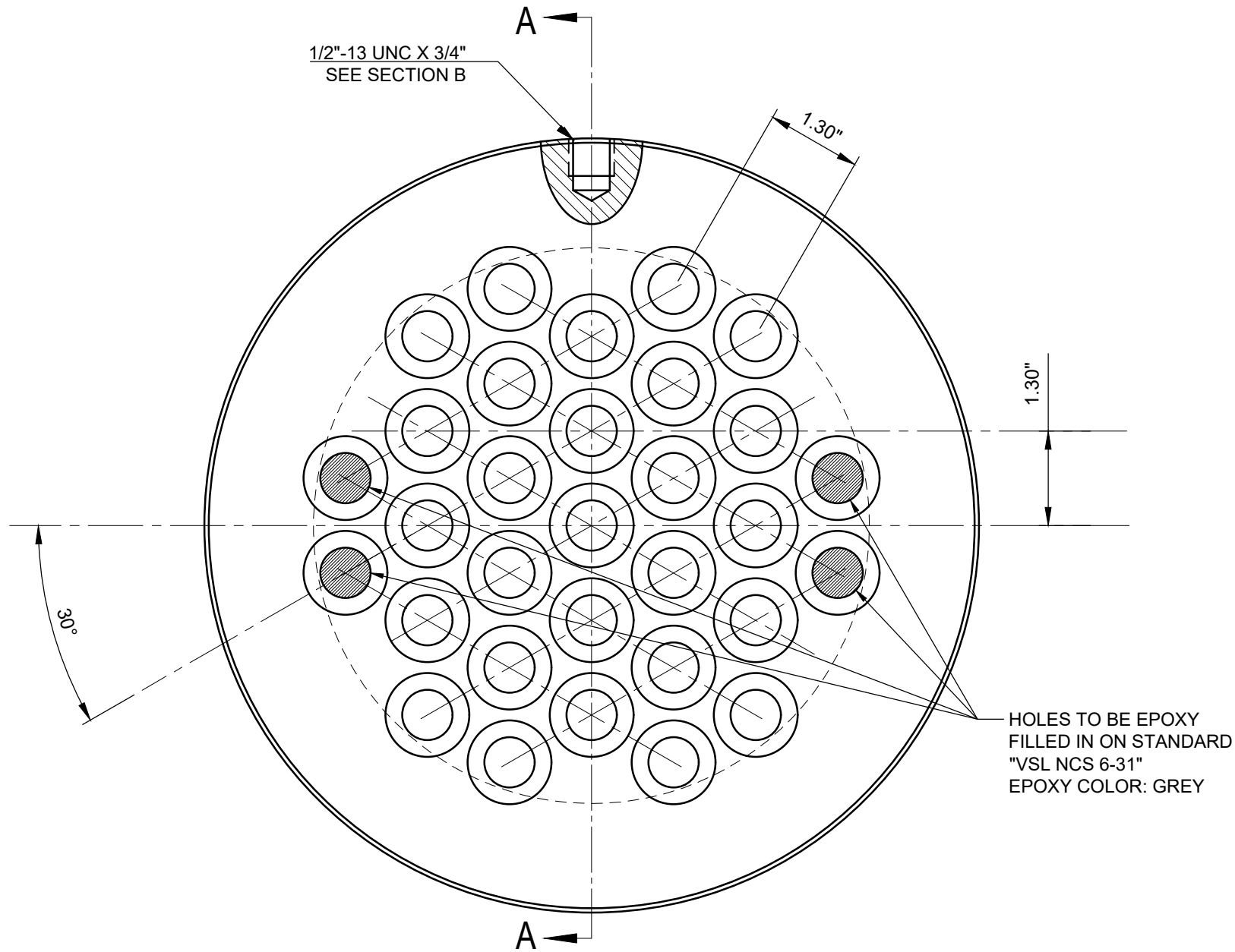


TOP VIEW

22" OUTSIDE DIAMETER

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 SYSTEM SHEET NO: C644		PROJECT NO:		SCALE:		TITLE:	
		SYSTEM		NTS		NCS 6-31 SPIRAL	
		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 PROHIBITED WITHOUT THE WRITTEN PERMISSION OF STRUCTURAL TECHNOLOGIES, LLC. 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.					
		STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 15800 TRINITY BLVD., SUITE 118 FORT WORTH, TX 76155 PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL					
structural TECHNOLOGIES A Structural Group Company VSL		3 2 1 NO		STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.		DESCRIPTION	
						BY	
						CHK	
						DATE	
PROJECT NO:		SYSTEM		SCALE:		TITLE:	
SYSTEM		NTS		NCS 6-31 SPIRAL			
SHEET NO:		C644					



SECTION B

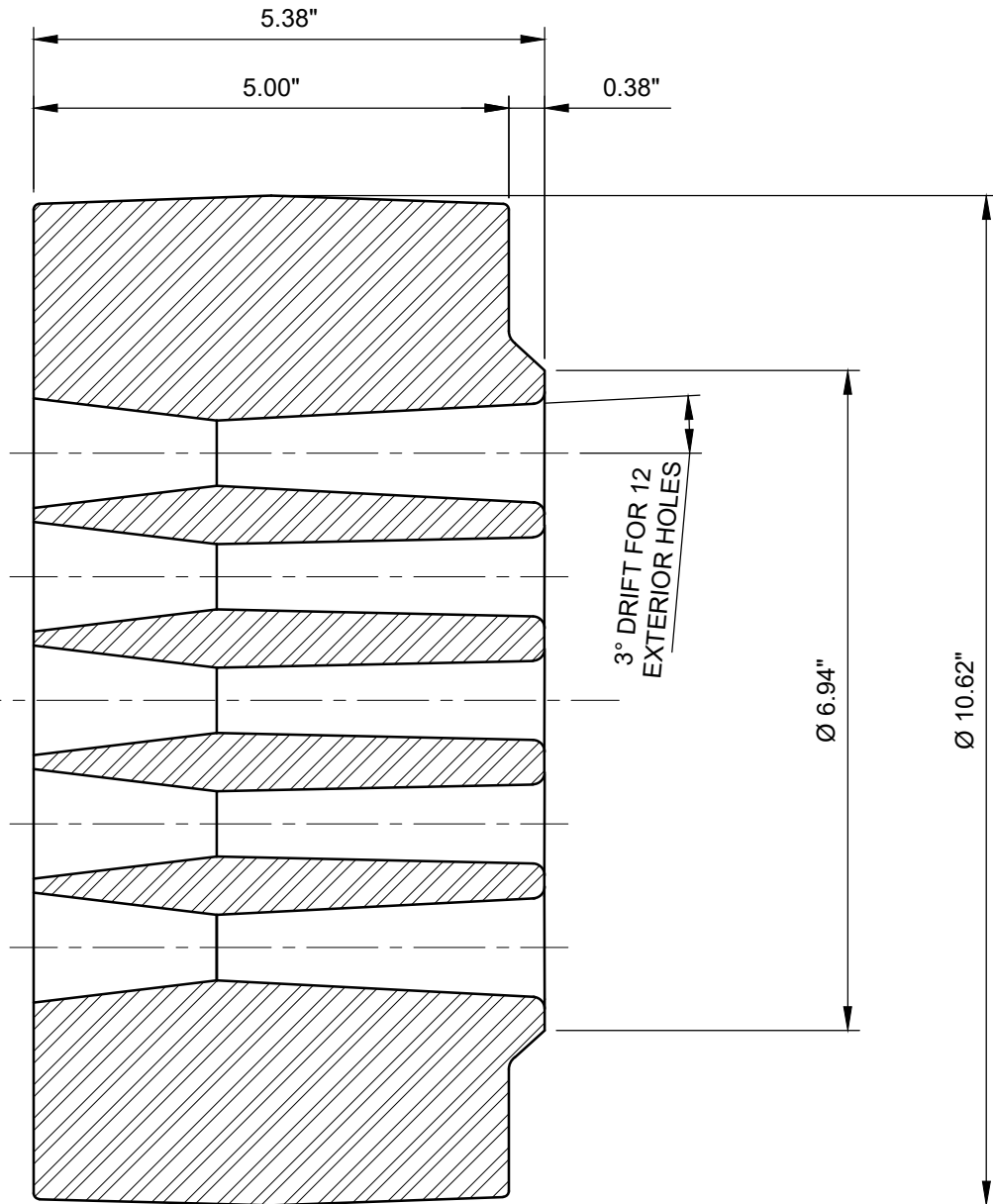
PLAN VIEW

ANCHORHEAD NCS 6-27

GENERAL CASTING NOTES

- 1) ALL HOLES TO BE FREE FROM BURRS
- 2) ALL RADII .039" UNO
- 3) MATERIAL: ASTM A536 GR 80-55-06
VSL Q.A. DOC MS 1.1.005
- 4) MANUFACTURERS IDENTIFICATION AND BATCH No.
MUST BE CLEARLY VISIBLE ON CASTING
- 5) SCALE: DRAWING NOT TO SCALE
- 6) WEIGHT: 106 LBS. est.

INVENTORY No. 02AH6031A



SECTION A-A

TOLERANCES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES

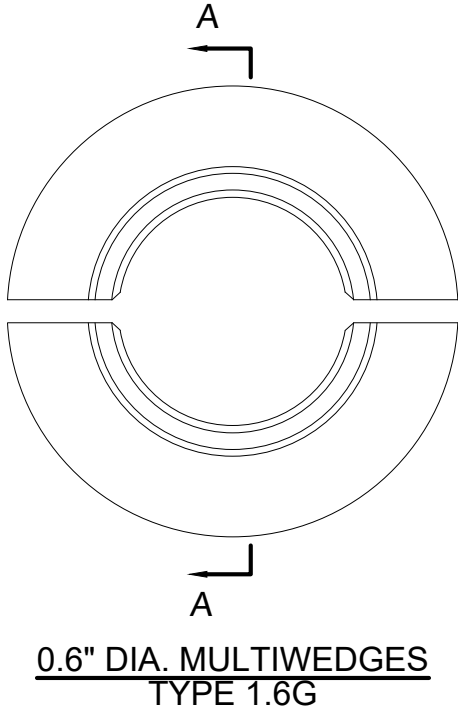
FRACTIONAL _____ $\pm$ 1/32
DECIMAL _____ .X $\pm$.030
_____ .XX $\pm$.010
_____ .XXX $\pm$.005
ANGULAR _____ $\pm$ 1/2°

NOTES:

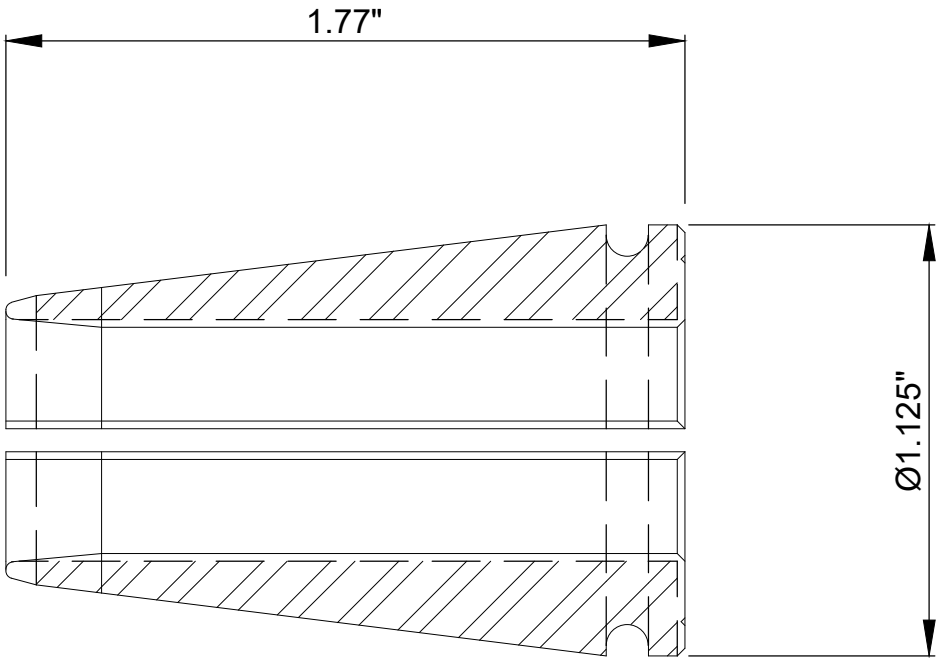
1. BREAK SHARP EDGES
2. REMOVE ALL BURRS
3. DO NOT SCALE DRAWING
4. ALL DRAFT ANGLES 2° UNO

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:		TITLE BLOCK UPDATED		CDL	ZX	14MAR2018
		ADDED 1/2-13 LIFTING EYE THREAD		GDH	ZX	09JAN2018
		(UPDATED MATERIAL INFO.) FOR PRODUCTION		JOB	GAH	09JAN2018
		(UPDATED MATERIAL INFO.) FOR PRODUCTION		GDH	GAH	04APR2011
		DESCRIPTION		BY	CHK	DATE
SYSTEM DRAWING		NCS 6-27 ANCHOR HEAD		SHEET NO: C677		
PROJECT NO: SYSTEM		SCALE: NTS				
SHEET NO:						



0.6" DIA. MULTIWEDGES
TYPE 1.6G

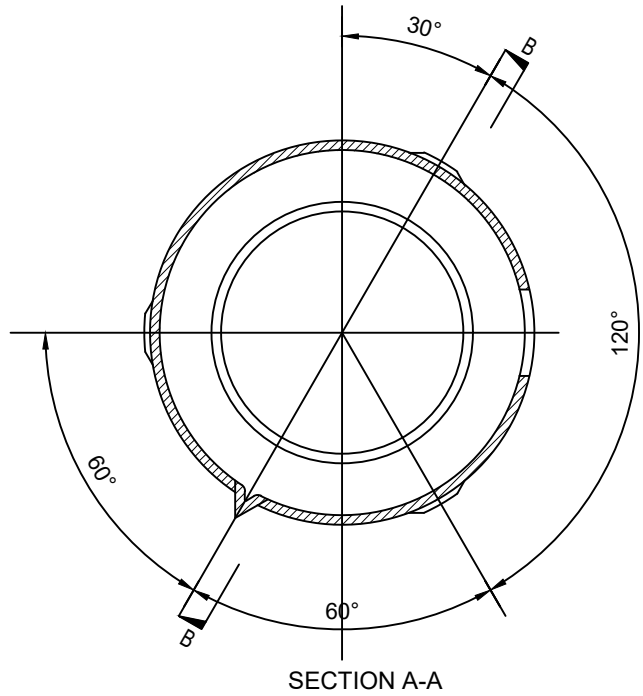
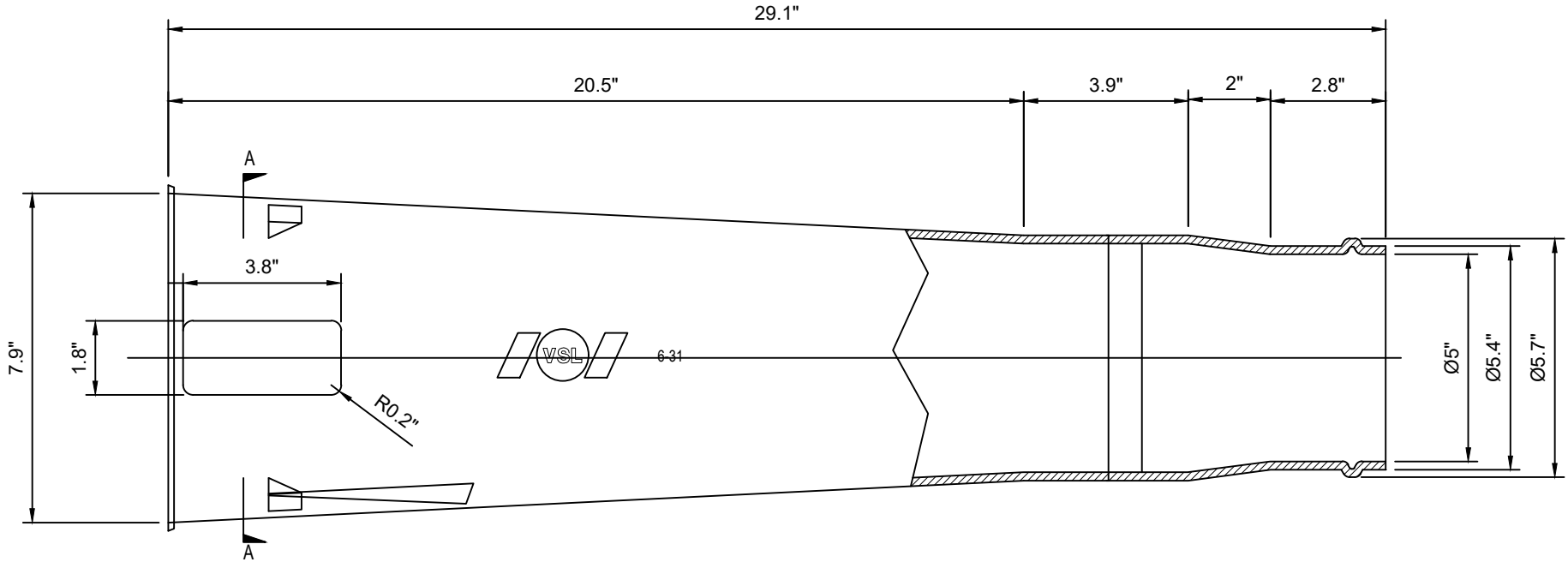
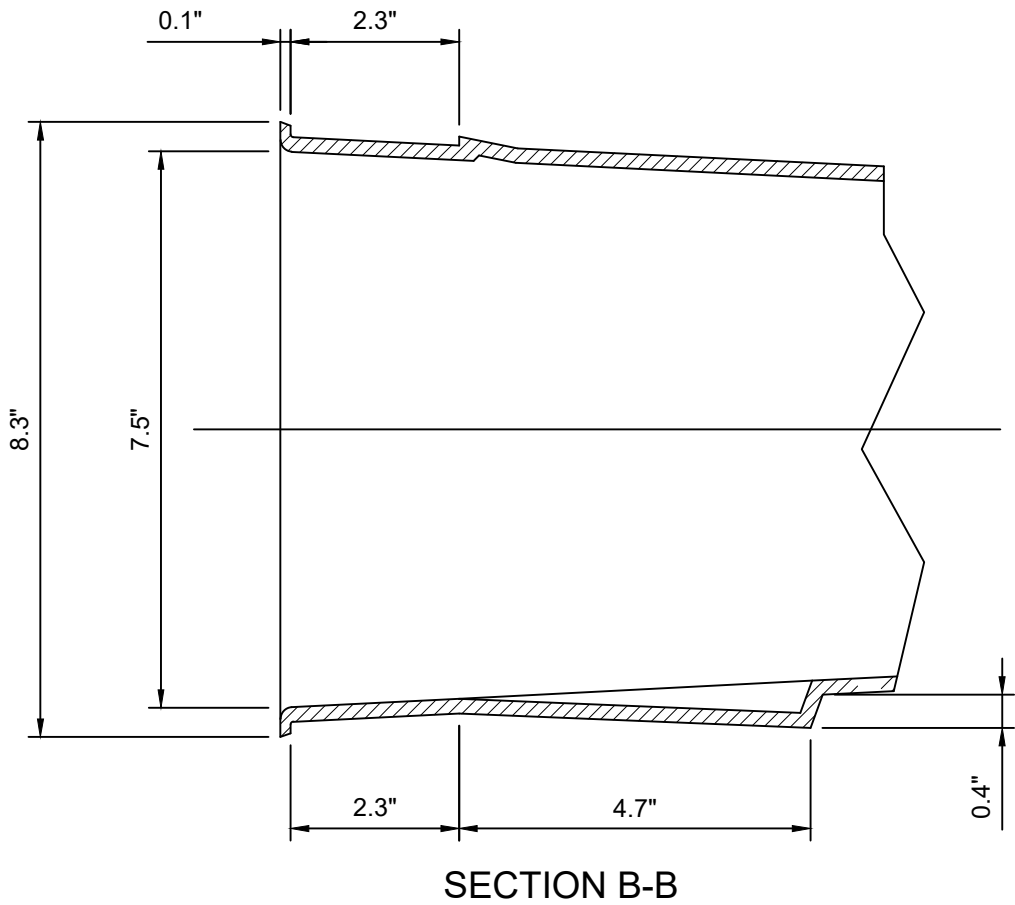


SECTION A-A

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

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

PROJECT INFORMATION:		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 76155 PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET		0.6" MULTIWEDGE TYPE 1.6G		TITLE:	
PROJECT NO: SYSTEM		SCALE: NTS				THIS DOCUMENT, INCLUDING ANY DRAWINGS, SPECIFICATIONS, AND CALCULATIONS HEREIN, CONTAINS INFORMATION THAT IS PROPRIETARY TO STRUCTURAL TECHNOLOGIES LLC (VSL). THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND MAY NOT BE REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN PERMISSION OF STRUCTURAL TECHNOLOGIES LLC (VSL). FURTHER, THE USE OF THIS DOCUMENT OR ANY INFORMATION PRESENTED HEREIN IS RESTRICTED TO THE SPECIFIC PROJECT AND PURPOSE FOR WHICH IT WAS PREPARED. ANY OTHER USE IS STRICTLY PROHIBITED. STRUCTURAL TECHNOLOGIES LLC DISCLAIMS ANY LIABILITY FOR ANY INFORMATION THAT MAY BE OBTAINED FROM THIS DOCUMENT OR ANY INFORMATION IT CONTAINS.	
SHEET NO:		C218		NO		DESCRIPTION	
				BY		CHK	
				DATE		26FEB2018	
				CDL		ZX	
				SK		ZX	
				GDH		29APR2004	
				TKW		01JAN1989	
				ADDED INVENTORY NUMBER			
				UPDATED BORDER			
				UPDATED TITLE BLOCK			
				TITLE BLOCK UPDATED			



TOLERANCES UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES

FRACTIONAL	_____	± 1/32
DECIMAL	_____.X	± .030
	_____.XX	± .010
	_____.XXX	± .005
ANGULAR	_____	± 1/2°

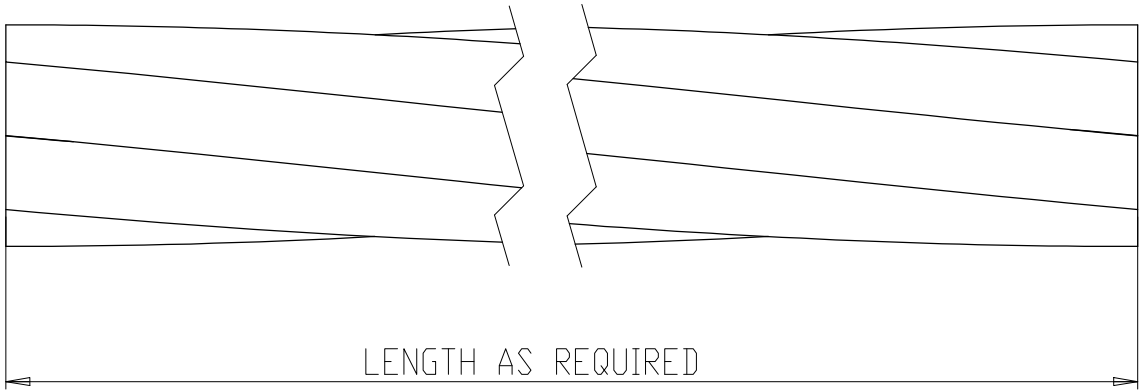
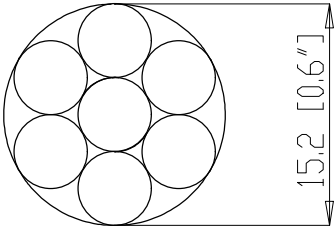
- NOTES:
- BREAK SHARP EDGES
 - REMOVE ALL BURRS
 - DO NOT SCALE DRAWING
 - ALL RADII .039" UNO
 - MATERIAL: HDPE

INVENTORY#: 02BP4436

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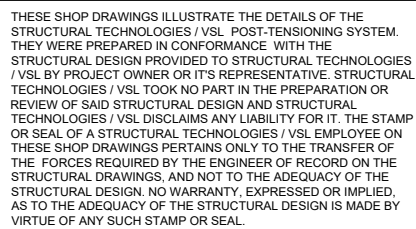
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SYSTEM DRAWING		ISSUED FOR CONSTRUCTION		JE		27OCT2009	DATE
NCS 6-31 TRUMPET		DESCRIPTION		BY	CHK		
PROJECT NO: SYSTEM		SCALE: NTS		SHEET NO: C645			

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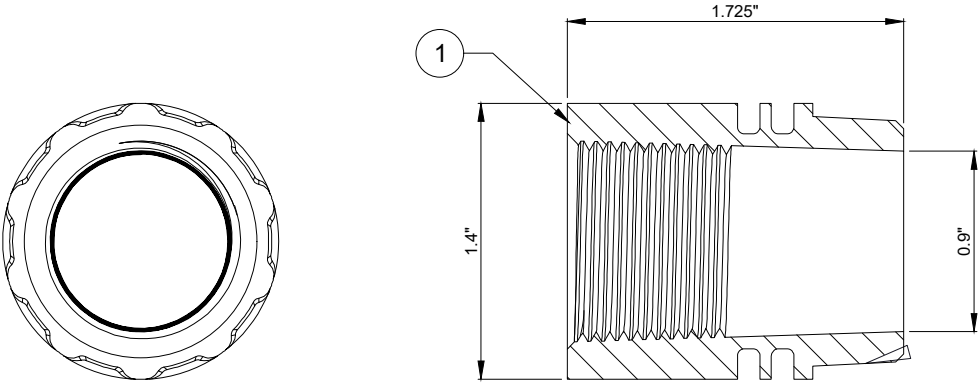


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PROJECT NO:	SYSTEM	TITLE BLOCK UPDATED		CDL	ZX		26FEB2018
SHEET NO:	NTS	FOR FDOT		MM			04FEB2010
		DESCRIPTION		NO	BY	CHK	DATE

NOTE: MINIMUM BEND RADIUS = 30'-0"



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



END VIEW

SIDE VIEW

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

PROJECT INFORMATION: SYSTEM DRAWING		PROJECT NO:		1		SHEET NO:		C743	
		TITLE:		3/4" FNPT SMOOTH GROUT PORT		SCALE:		NTS	
		PROJECT NO:		1		SHEET NO:		C743	
		TITLE:		3/4" FNPT SMOOTH GROUT PORT		SCALE:		NTS	
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								26FEB2018	
								DATE	

structural
technologies

A Structural Group Company

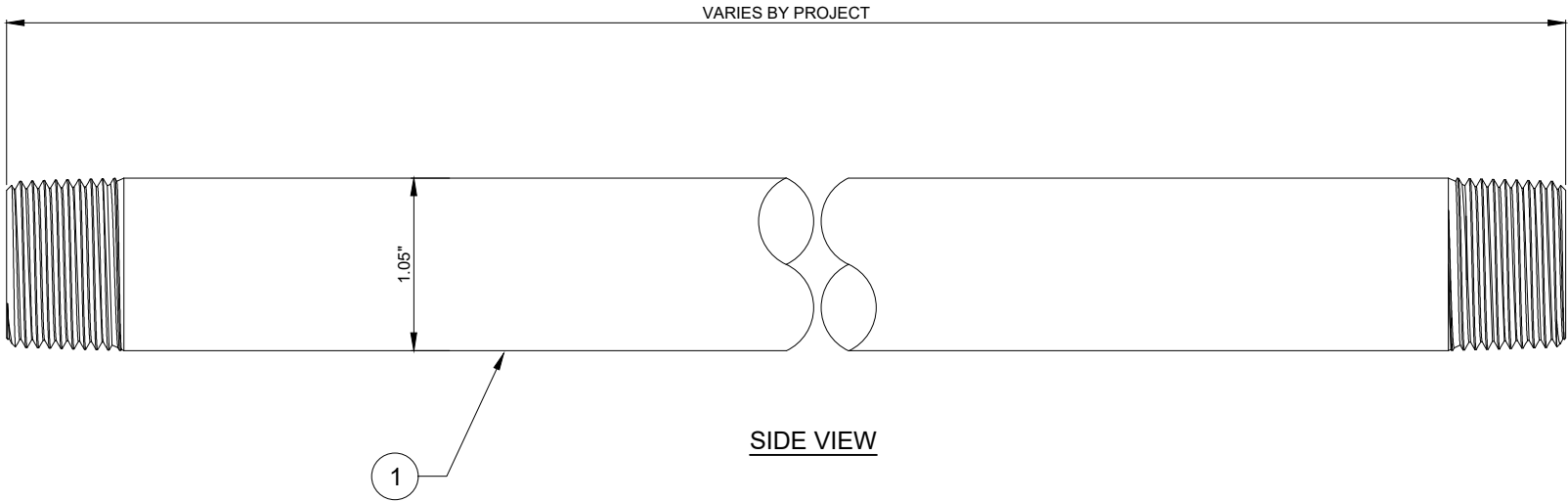
vsl

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

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

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

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



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PROJECT INFORMATION:		structural TECHNOLOGIES A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL  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 RESTRICTED TO THE SITE FOR WHICH IT WAS PROVIDED BY VSL. NO WARRANTY, AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.				
SYSTEM DRAWING						
PROJECT NO:	1	TITLE:		3/4" NPT STEEL NIPPLE		
SHEET NO:		SCALE:	NTS			

structural
technologies

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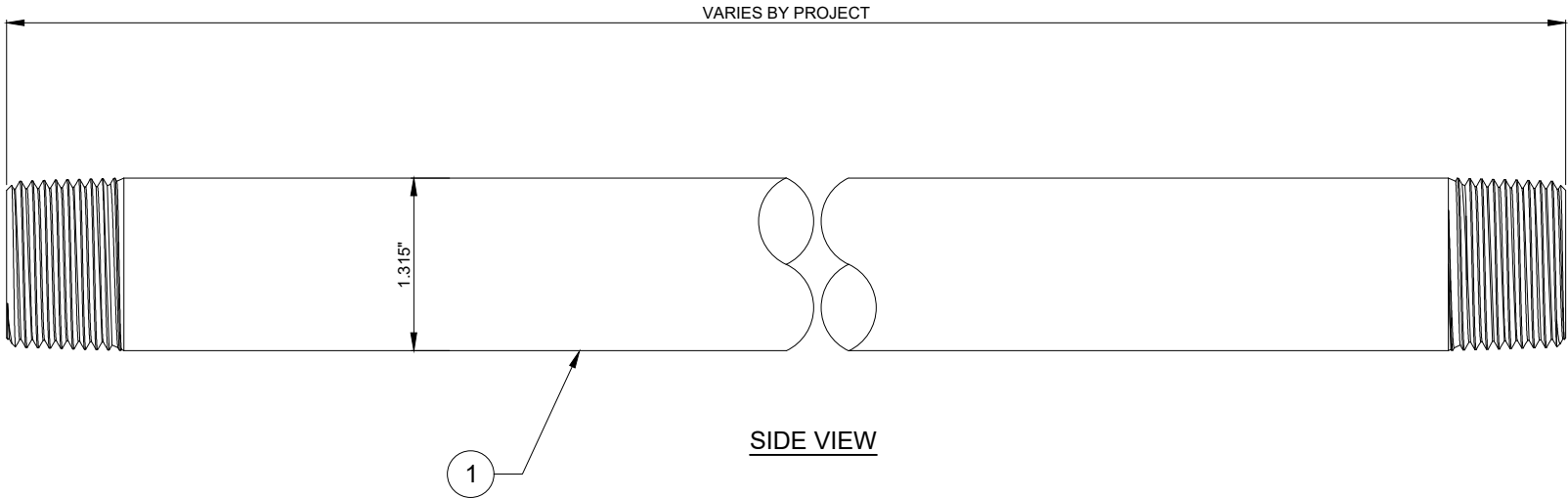
VSL

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

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



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PROJECT INFORMATION:		PROJECT NO:		1		SHEET NO:		C725			
SYSTEM DRAWING		TITLE:		1" NPT STEEL NIPPLE							
PROJECT NO:		SCALE:		NTS							
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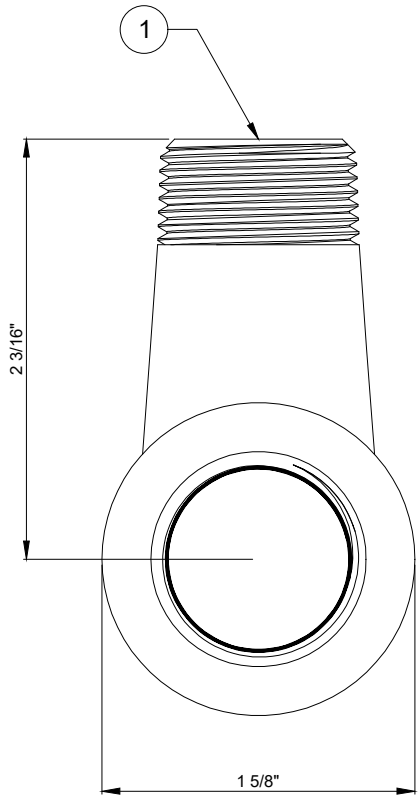
VSL

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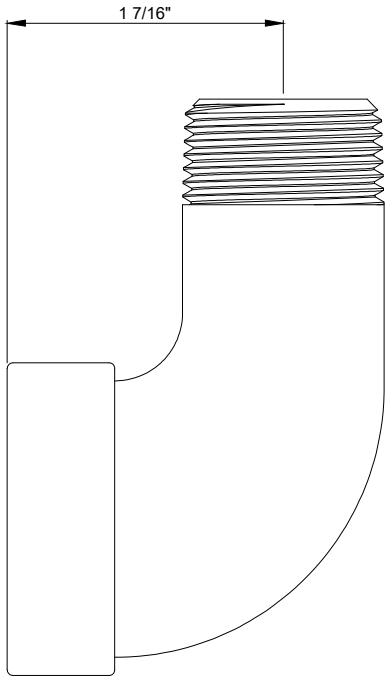
STRUCTURAL TECHNOLOGIES, LLC
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15600 TRINITY BLVD, SUITE 118
FORT WORTH, TX 76156

PHONE: (817) 545-4877
FAX: (817) 545-4827
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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01954



END VIEW



SIDE VIEW

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PROJECT INFORMATION:		 structural TECHNOLOGIES A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 3000 KENNEDY BLVD, SUITE 118 FORT WORTH, TX 76155		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 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.			
SYSTEM DRAWING							
PROJECT NO:							
SHEET NO:							
TITLE:		FIRST ISSUE		CDL	ZX	26FEB2018	
SCALE:		DESCRIPTION		BY	CHK	DATE	
3/4" FNPT X MNPT STEEL ELBOW		NO					
I							
NTS							
C750							

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STRUCTURAL TECHNOLOGIES, LLC

DALLAS OFFICE

15600 TRINITY BLVD, SUITE 118

FORT WORTH, TX 76155

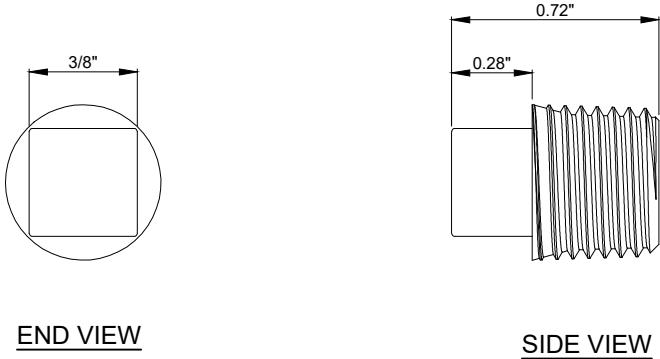
PHONE: (817) 545-4807

FAX: (817) 545-4827

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PLOT DATE/TIME: 26Feb2018 8:20 AM FILE NAME: C750 3-4in FNPT X MNPT Steel Elbow.dwg

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



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PROJECT INFORMATION:

PROJECT NO: 1

SHEET NO: C747

SYSTEM DRAWING

1/4" NPT STEEL PLUG



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FORT WORTH, TX 76156

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POMPAÑO BEACH OFFICE
1000 S. BEACH BLVD, SUITE 100
POMPAÑO BEACH, FL 33062

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DATE

NO

DESCRIPTION

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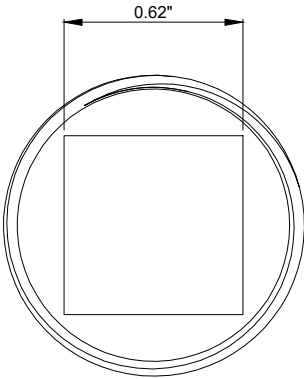
CHK

DATE

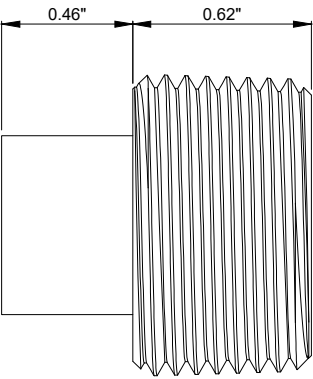
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PLOT DATE/TIME: 26Feb2018 8:19 AM FILE NAME: C747 1-4in NPT Steel Plug.dwg

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



END VIEW



SIDE VIEW

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PROJECT INFORMATION:		PROJECT NO:		1		SHEET NO:		C748	
SYSTEM DRAWING		TITLE:		3/4" NPT STEEL PLUG		SCALE:		NTS	
structural TECHNOLOGIES VSL A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 2000 W. WYOMING AVE., SUITE 118 FORT WORTH, TX 76115 PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET		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 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.		NO		FIRST ISSUE		DESCRIPTION	
		CDL		ZX		BY		CHK	
								DATE	

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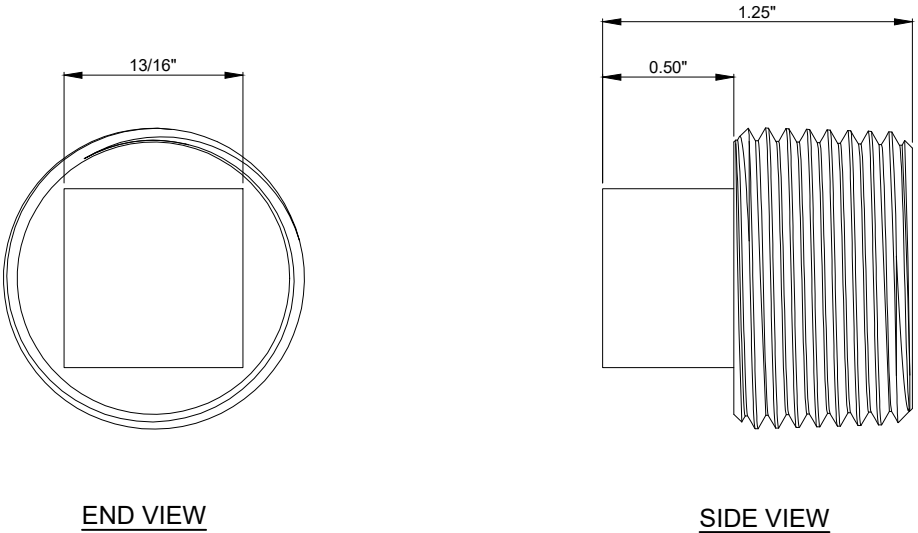
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15600 TRINITY BLVD, SUITE 118
FORT WORTH, TX 76156

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

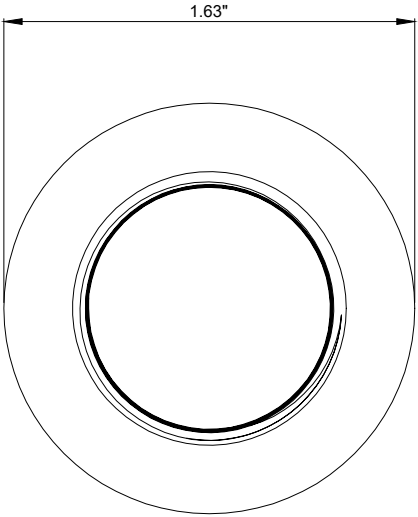
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958



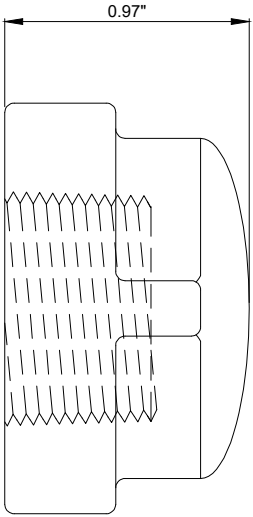
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PROJECT INFORMATION:		 VSL	
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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" NPT STEEL CAP	SCH 40 STEEL	02DT01950



END VIEW



SIDE VIEW

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PROJECT INFORMATION:		PROJECT NO:		1		SHEET NO:		C724					
SYSTEM DRAWING		TITLE:		3/4" NPT STEEL CAP		SCALE:		NTS					
structural TECHNOLOGIES A Structural Group Company VSL Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 2000 W. KEMP FLD., SUITE 118 FORT WORTH, TX 76115 PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET		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 RESTRICTED TO THE SITE FOR WHICH IT WAS PROVIDED FOR THE EXCLUSIVE 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		CDL		ZX		26FEB2018	
				BY		CHK		DATE					
				DESCRIPTION									

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DALLAS OFFICE

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FORT WORTH, TX 76155

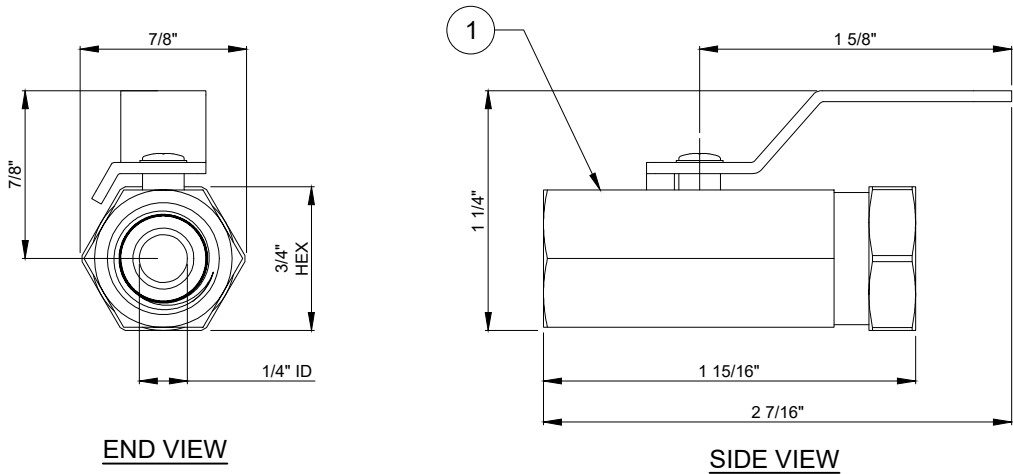
PHONE: (817) 545-4807

FAX: (817) 545-4827

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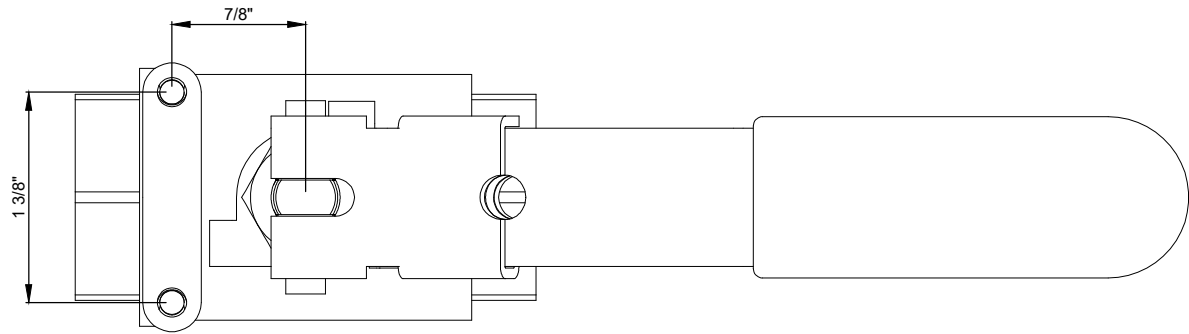
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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1/4" F/F NPT 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924

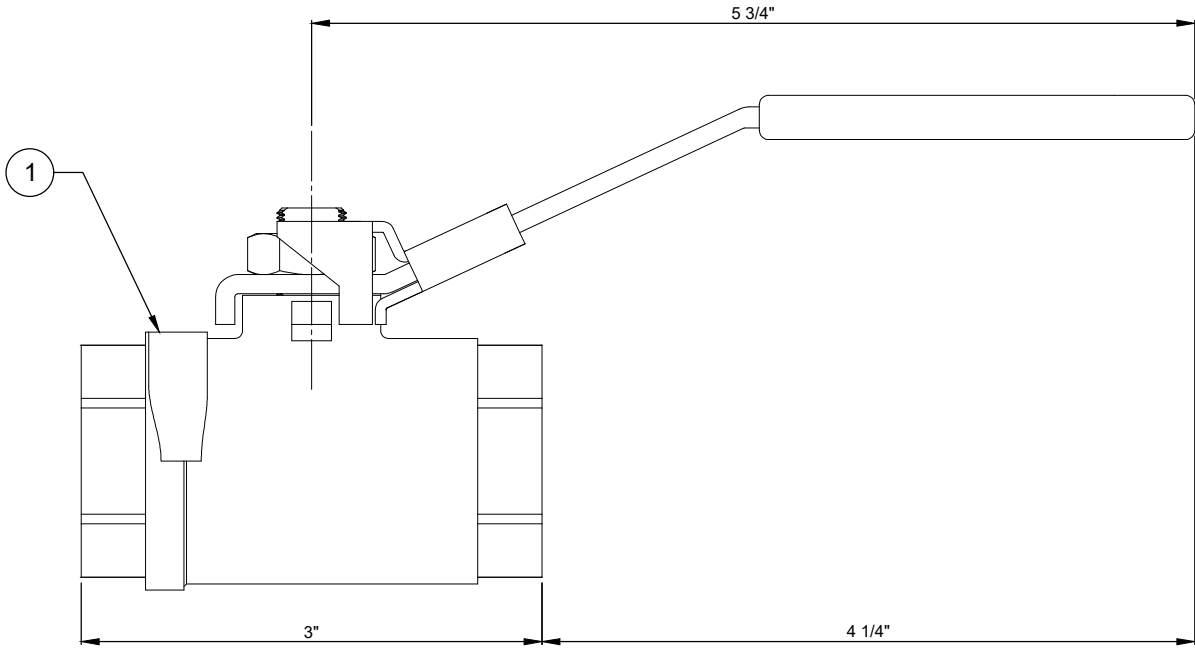


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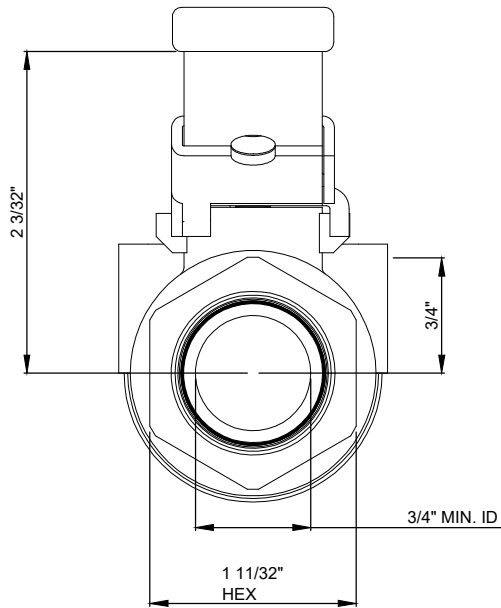
PROJECT INFORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL DRAWINGS, SPECIFICATIONS AND CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART, OR ANY REPRODUCTION THEREOF, IS RESTRICTED TO THE SITE FOR WHICH IT WAS PROVIDED BY VSL. NO MATERIAL AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL ANY OTHER USE IS STRICTLY PROHIBITED, AND STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.									
SYSTEM DRAWING											
PROJECT NO: 1		STRUCTURAL TECHNOLOGIES, LLC DALLAS OFFICE 10000 W. VENTURA BLVD, SUITE 118 FORT WORTH, TX 76155 Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET									
SHEET NO:		TITLE: 1 1/4" F/F NPT 1/4 TURN BALL VALVE									
SCALE: NTS											
C744											



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:

SCALE:

NTS

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

C745



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

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FORT WORTH, TX 76156

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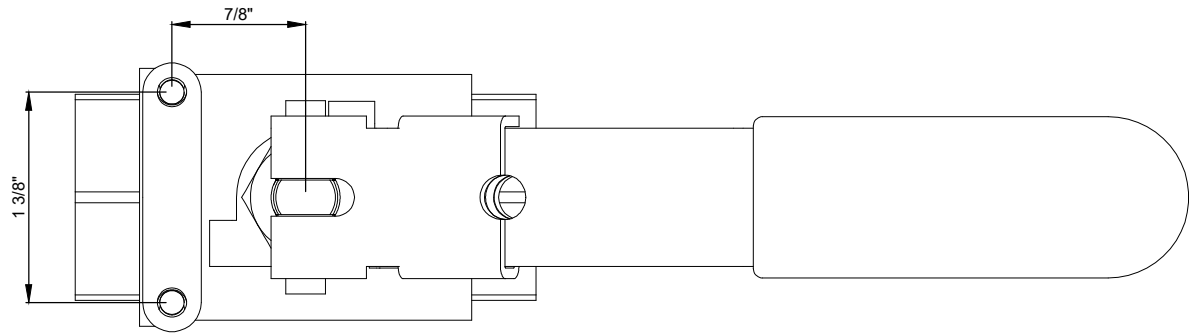
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CHK

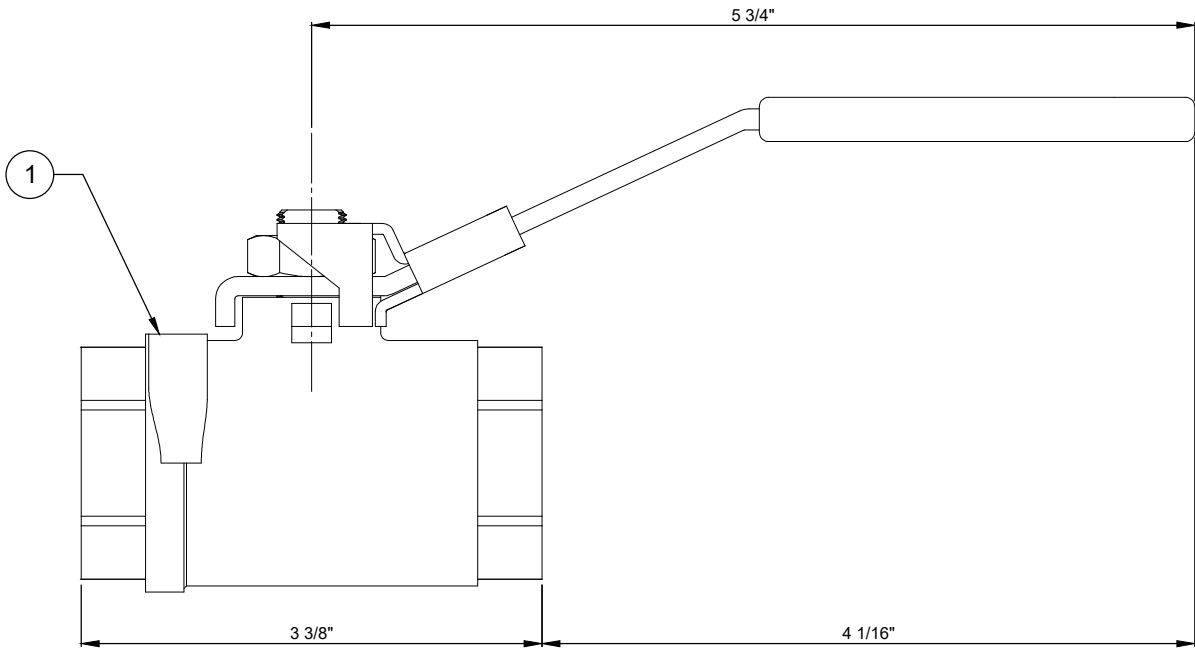
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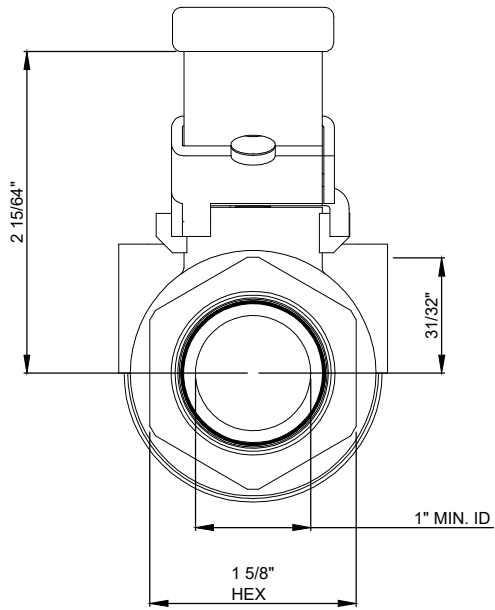
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TOP VIEW



SIDE VIEW



END VIEW

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

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PROJECT INFORMATION:

SYSTEM DRAWING

PROJECT NO:

SHEET NO:

SCALE:

NTS

TITLE:

1" NPT STEEL 1/4 TURN BALL VALVE

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PHONE: (817) 545-4877
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DESCRIPTION

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