

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 IT'S 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 IN WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

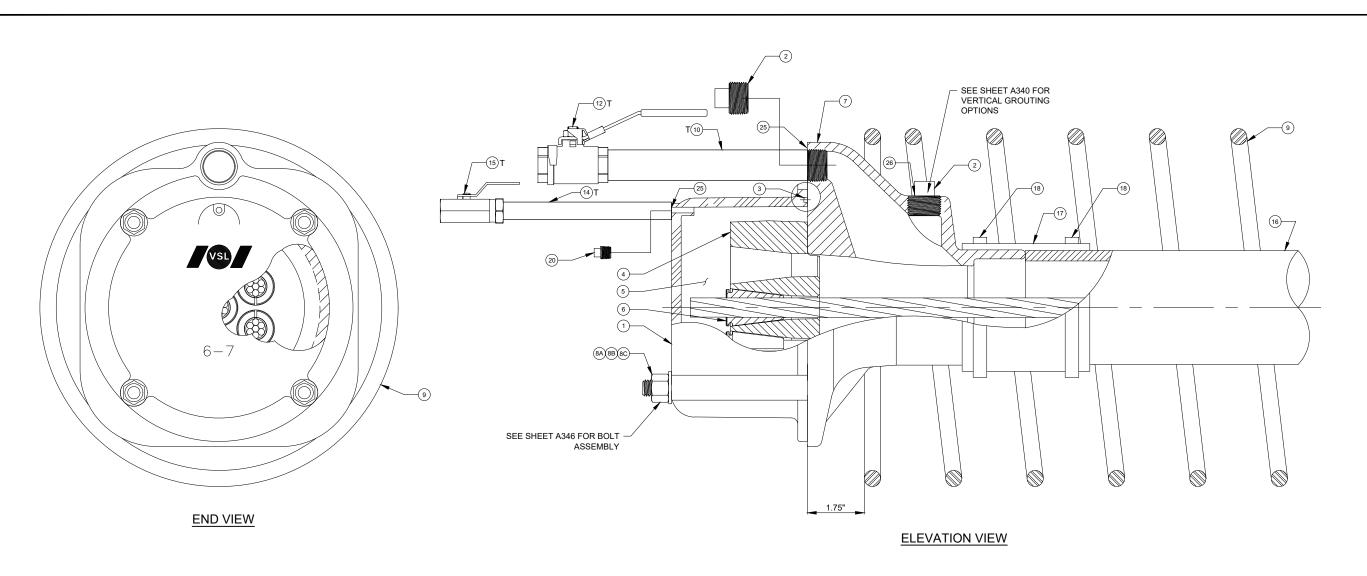
STRUCTURAL TECHNOLOGIES, LLC PHONE: (817) 545-482. ILLER REGOTRUNT SUITE 118 WWW.VSL.NET FORT WARRY 127 25-56-482.	тте: ECI 6-7 OVERALL ASSEMBLY WITH FLEXIBLE FILLER	1 '	SCALE: NTS	A318
Dalias, TX / Washington, DC / Denver, CO / Pompano Beach,				
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FOR APPROVAL

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

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	1	6-7 ANCHORAGE CAP W/ 1/4" NPT FRONT PORT	ABS	02GC60702
2	2	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958
3	1	6-7 ANCHORAGE CAP O-RING	HNBR	02WX5017
4	1	ECI 6-7 ANCHOR HEAD	A536 GR 80-55-06	02AH0036
5	-	FLEXIBLE FILLER	FDOT APL	-
6	7	1.6G WEDGE .6 1.77 W/GROOVE	AISI 11-L-17/12-L-14	02WG0008
7	1	ECI 6-7 BEARING PLATE WITH 1" NPT PORT (GALVANIZED)	A536 GR 80-55-06	02BP0036V
8A	1 SET	1/2"-13 THREADED ROD X 5 1/2"	(316L) STAINLESS	02WX5014D
8B	1 SET	1/2"-13 NUT	(316L) STAINLESS	02WX5014D
8C	1 SET	1/2" WASHER	(316L) STAINLESS	02WX5014D
9	1	SPIRAL ECI 6-7 (#4 11" DIA., 6 1/2 TURNS, 3" PITCH, NON EPOXY COATED)	A615 GR 60	02BP0095
10	1	1" NPT STEEL NIPPLE	SCH 40 STEEL	-
12	1	1" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01926
14	1	1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-
15	1	1/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924
16	1	3" DR-17 PIPE	HDPE	-
17	1	ELASTOMER SLEEVE	COMPOSITE	02MP31106
18	2	ELASTOMER SLEEVE BAND CLAMP	316 STAINLESS STEEL	02MP50048
20	1	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956
25	-	SILICONE GREASE	-	-
26	-	BONDUIT	-	-

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

- LIGHTLY GREASE ANCHORAGE CAP BOLTS. USE MOUNTING HOLES IN BEARING PLATE TO MOUNT BEARING PLATE ASSEMBLY TO FORM. SECURE BEARING PLATE ASSEMBLY WITH ANCHORAGE CAP BOLTS. USE CARE NOT TO DAMAGE THREADS.
- INSTALL AND SECURE SPIRAL.
- INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPE/SILICONE GREASE (BY OTHERS), AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT
- 4. REFER TO ELASTMERIC CONNECTION NOTES ON THIS SHEET FOR INSTALLING PIPE TO BEARING
- 5. INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPE/SILICONE GREASE (BY OTHERS), AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR (BY OTHERS).
- SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.
- PER FDOT SPECIFICATION SECTION 462-8.2.1.2, A VACUUM TEST IS REQUIRED PRIOR TO CONCRETE

- CONCRETE PLACEMENT OCCURS BY OTHERS.
 INSTALL STRAND. LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.
 INSTALL ANCHOR HEADS. MAKE SURE WEDGE CAVITIES ARE CLEAN AND RUST FREE. USE WIRE BRUSH TO CLEAN IF NECESSARY.
- 11. ONLY STRESS STRANDS IF CONCRETE HAS REACHED REQUIRED STRENGTH SPECIFIED ON
- 12. ELONGATION SHOULD BE WITHIN ±7%.
- 13. AFTER ENGINEERS APPROVAL, STRAND TAILS MAY BE CUT.
- 14. AFTER FORM WORK IS REMOVED, USE MOUNTING BOLTS TO INSTALL ANCHORAGE CAP. REINSTALL O-RING INTO ANCHORAGE CAP.
- 15. SYSTEM IS NOW READY TO AIR TEST
- 16. PER THE FDOT SPECIFICATION SECTION 462-8.2.2, A SECOND AIR PRESSURE TEST IS REQUIRED AFTER STRAND STRESSING AND PRIOR TO WAX INJECTION.
- 17. WAX TENDON PER WAX SPEC.

ELASTOMERIC CONNECTION NOTES: ROUGHEN 3" MIN. END OF HDPE PIPE WITH

- COARSE SANDPAPER INSTALL 6" ELASTOMER SLEEVE
- INSTALL 2 SS BAND CLAMPS
- CENTER ELASTOMER SLEEVE OVER THE JOINT
- APPLY 120 LBS SEATING FORCE PER BAND CLAMP ELASTOMER SLEEVE HAS NO IDENTIFYING TEXT
- OR MARKINGS, ELASTOMER IS BLACK IN COLOR

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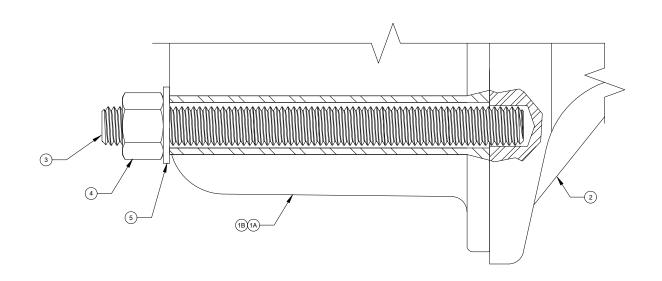
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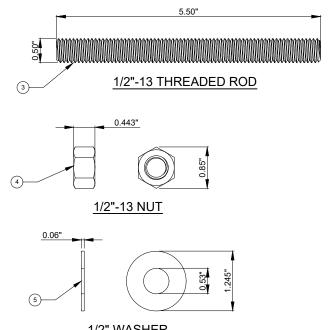


ROJECT NO: SCALE: NTS HEET NO:

A317



 $\frac{\text{CAP TO BEARING PLATE BOLTED}}{\text{\underline{ASSEMBLY}}}$



1/2"-13 THREADED ROD
3 I/Z - 13 THREADED ROD
0.443" 1/2"-13 NUT
0.06"
1.245"
1/2" WASHER

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

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PROJECT NO:	 SCALE: NTS
SHEET NO:	A346

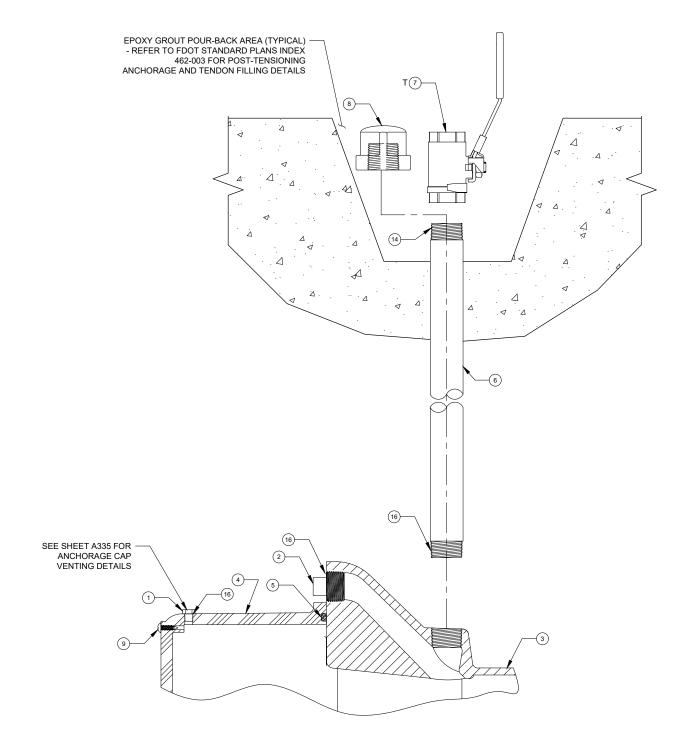
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DISCLAIMS ANY LIBBILITY THEREORE.



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	A536 GR80-55-06	02BP0036V	
4	4 1 6-7 ANCHORAGE CAP W/ 1/4" TOP PORT		ABS	02GC60703
5	5 1 6-7 ANCHORAGE CAP O-RING		HNBR	02WX5017
6	5 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	9 1 3/16" PAN HEAD SCREW 3		316 STAINLESS STEEL	02WX1070
14	-	SILICONE GREASE	-	-
16	-	BONDUIT	=	-

NOTES:

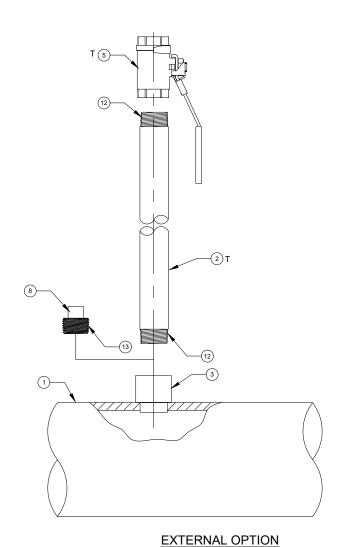
- 1. ITEMS MARKED WITH A "T" ARE TEMPORARY AND ARE NOT A PERMANENT PART OF THE SYSTEM.
 2. ALL COMPONENTS MUST BE PRESSURE RATED
- FOR 150 PSI
 3. CONCRETE COVER MUST MEET FDOT
 STRUCTURES DESIGN GUIDELINES SECTION 1.4.2

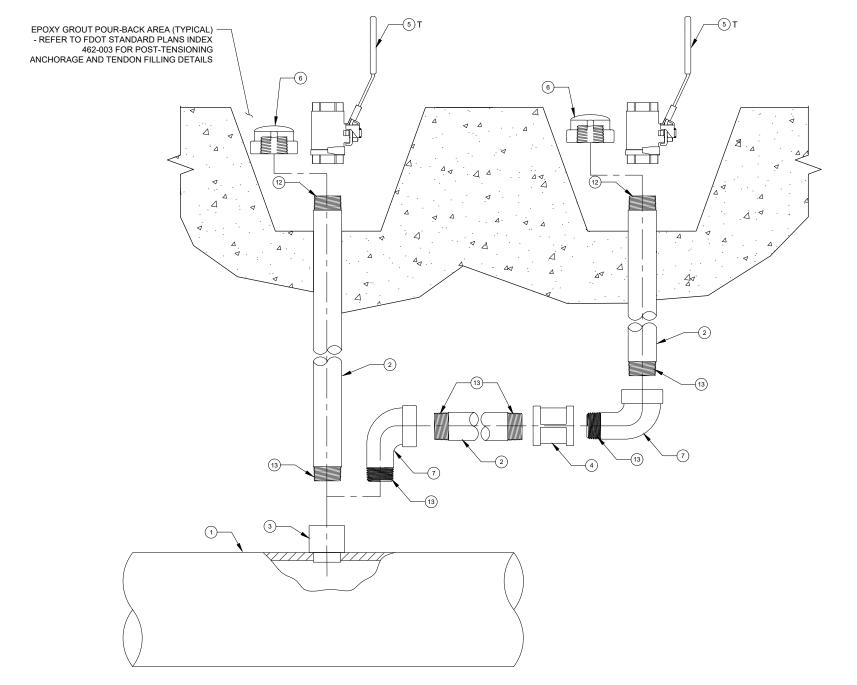
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	- STINOTORIUST	/(ISA)	CACUCATIONS ("INFORMATION") SET CACUCATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART. OR					
	A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL) / Pompano Beach, FL	ANY REPRODUCTION THEREOF, IS RESTRICTED TO THE SITE FOR WHICH IT WAS PREPARED AND TO THE MATERIAL	€	PART NUMBER UPDATED	CDL	CDL ZX 26	26
	STRUCTURAL TECHNOLOGIES, LLC	PHONE: (817) 545-4807	AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND	\forall	FOR APPROVAL	СРГ	CDL ZX 26	26
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Y 1 E 80 P R	PROJECT INFORMATION: SYSTEM	TITLE: ECI 6-7 VERTICAL I
D IE O	PROJECT NO:	 SCALE: NTS
	SHEET NO:	Δ340

NJECTION OPTIONS





INTERNAL OPTION

ITEM	QTY	DESCRIPTION	DESCRIPTION MATERIAL	
1	-	3" DR-17 PIPE	3" DR-17 PIPE HDPE	
2	1	3/4" NPT STEEL NIPPLE	3/4" NPT STEEL NIPPLE SCH 40 STEEL	
3	1	1 3/4" FNPT SMOOTH GROUT PORT POLYETHYLENE 02		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	3/4" NPT STEEL CAP SCH 40 STEEL	
7	2	3/4" FNPT X MNPT STEEL ELBOW SCH 40 STEEL		02DT01954
8	1	1 3/4" NPT STEEL PLUG 316 STAINLESS STEEL		02DT01957
12	-	SILICONE GREASE	-	-
13	-	BONDUIT	-	-

3/4" FNPT SMOOTH GROUT PORT INSTALLATION

1. 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.
- 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.
 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
 1. 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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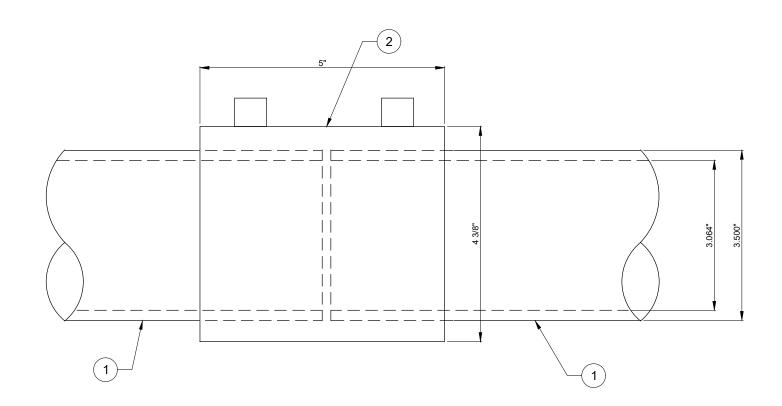
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)	Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL			FAX: (817) 545-4827	WWW.VSL.NET
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DATE

SCALE: ROJECT NO: NTS

A323

PLOT DATE/TIME:12Mar2018 8:30 AM FILE NAME: A323 3in HDPE Vent Assembly.dwg



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

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

- CUT SQUARE ENDS ON PIPE TO BE FUSED

- CLEAN BOTH PIPE ENDS

 SCRAPE BOTH PIPE SMINIMUM 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

- 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

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

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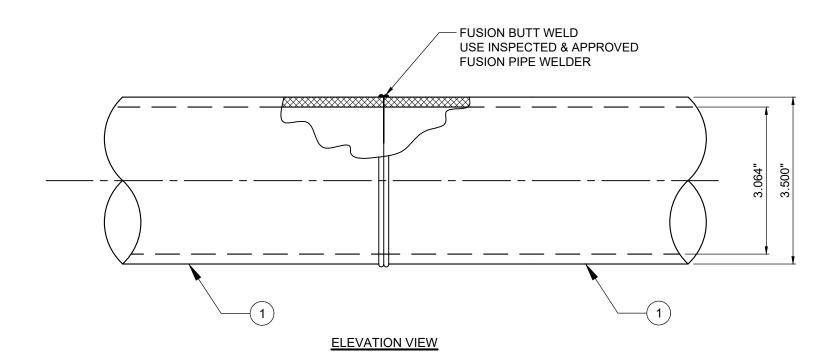
PROJECT NO: SHEET NO:

SCALE:

NTS

A319

SYSTEM



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

NOTES:

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

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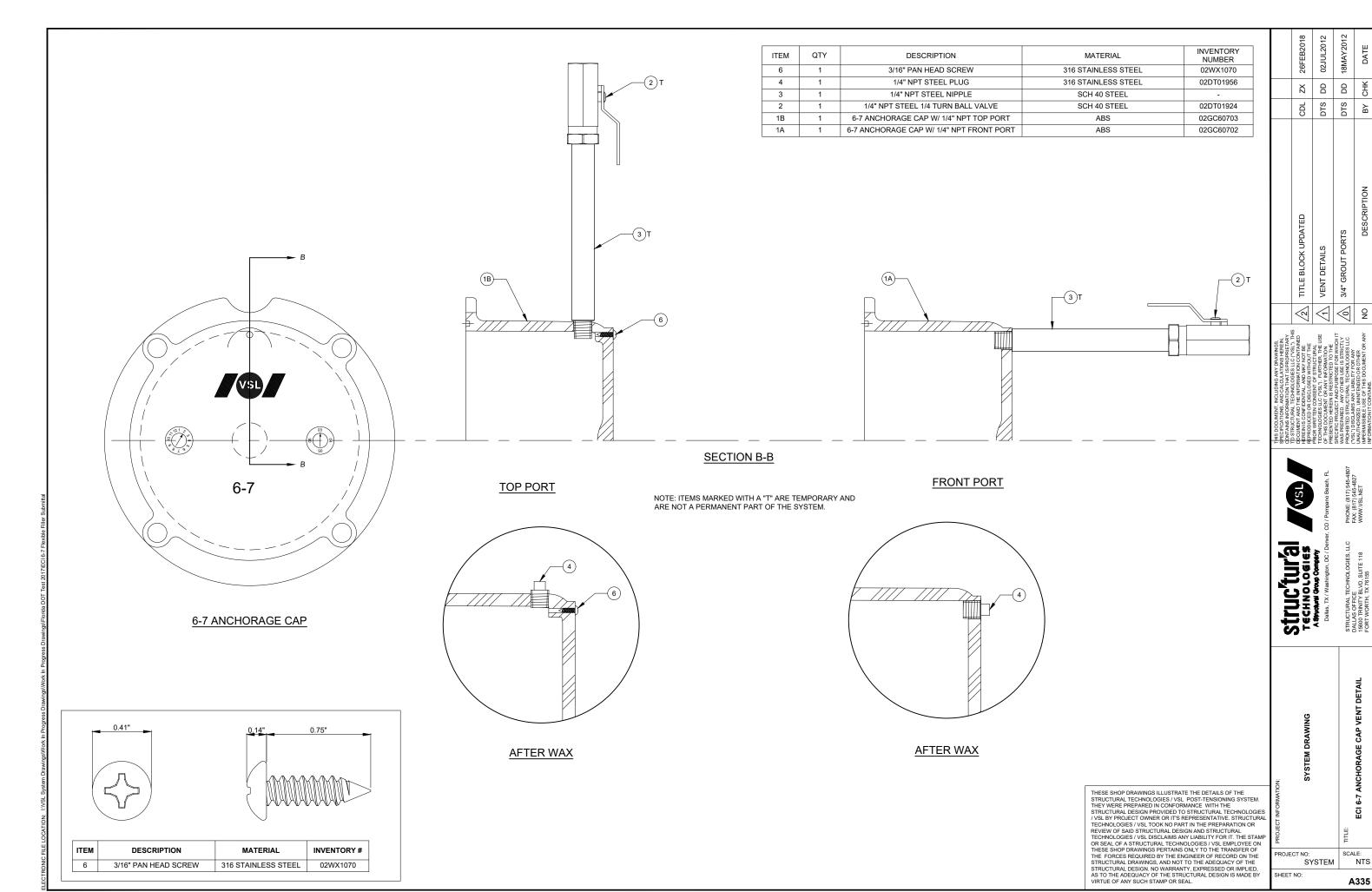
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DALLAS OFFICE
15600 TRINITY BLVD, SUITE 1

PROJECT INFORMATION:
SYSTEM DRAWING
SYSTEM DRAWING
TITLE:
TYPICAL 3" HDPE PIPE TO 3" HDPE PIPE FUSION
WELDED CONNECTION

A320

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3/16" PAN HEAD SCREW

316 STAINLESS STEEL

02WX1070

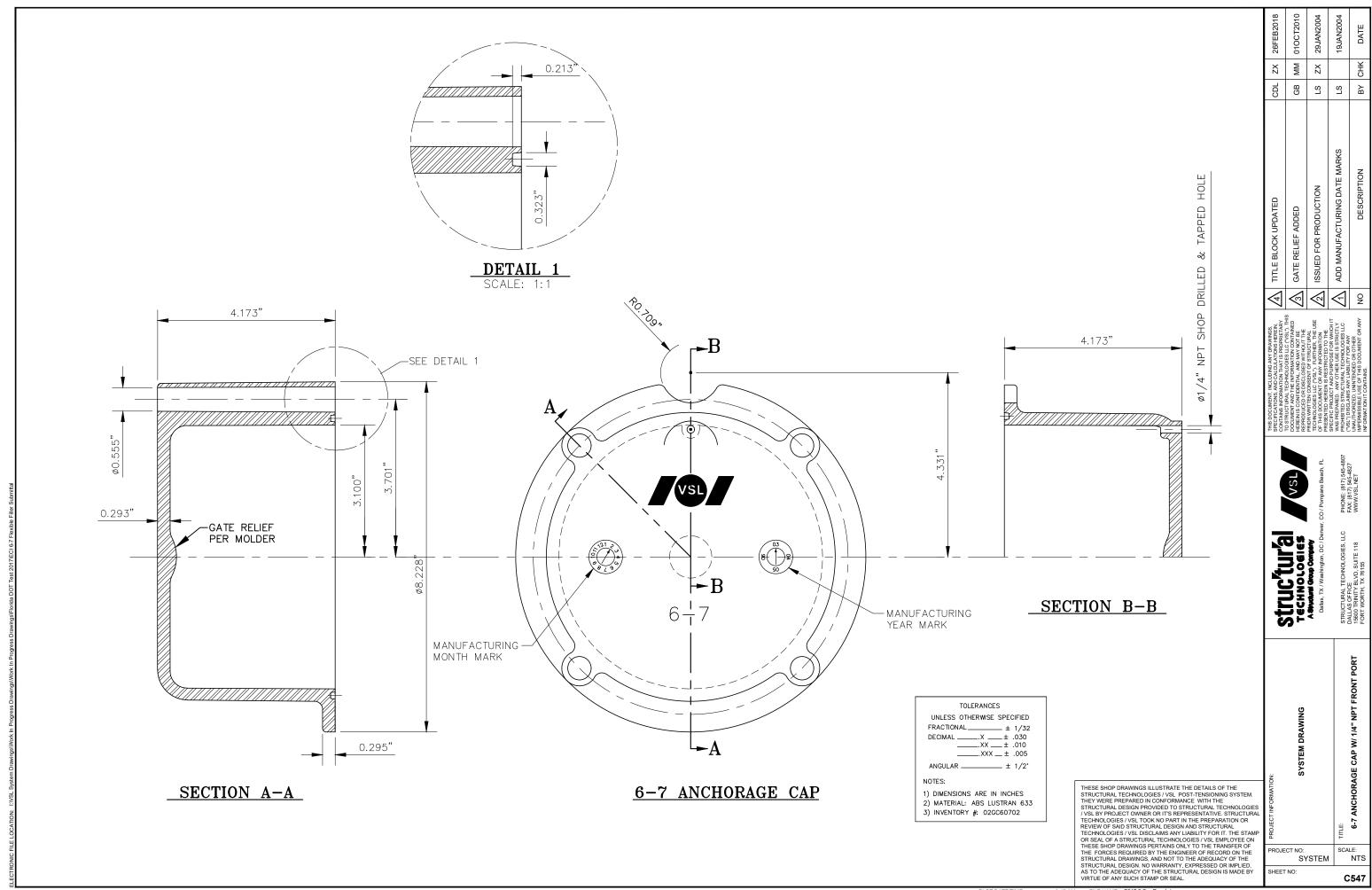
PROJECT NO: SYSTEM

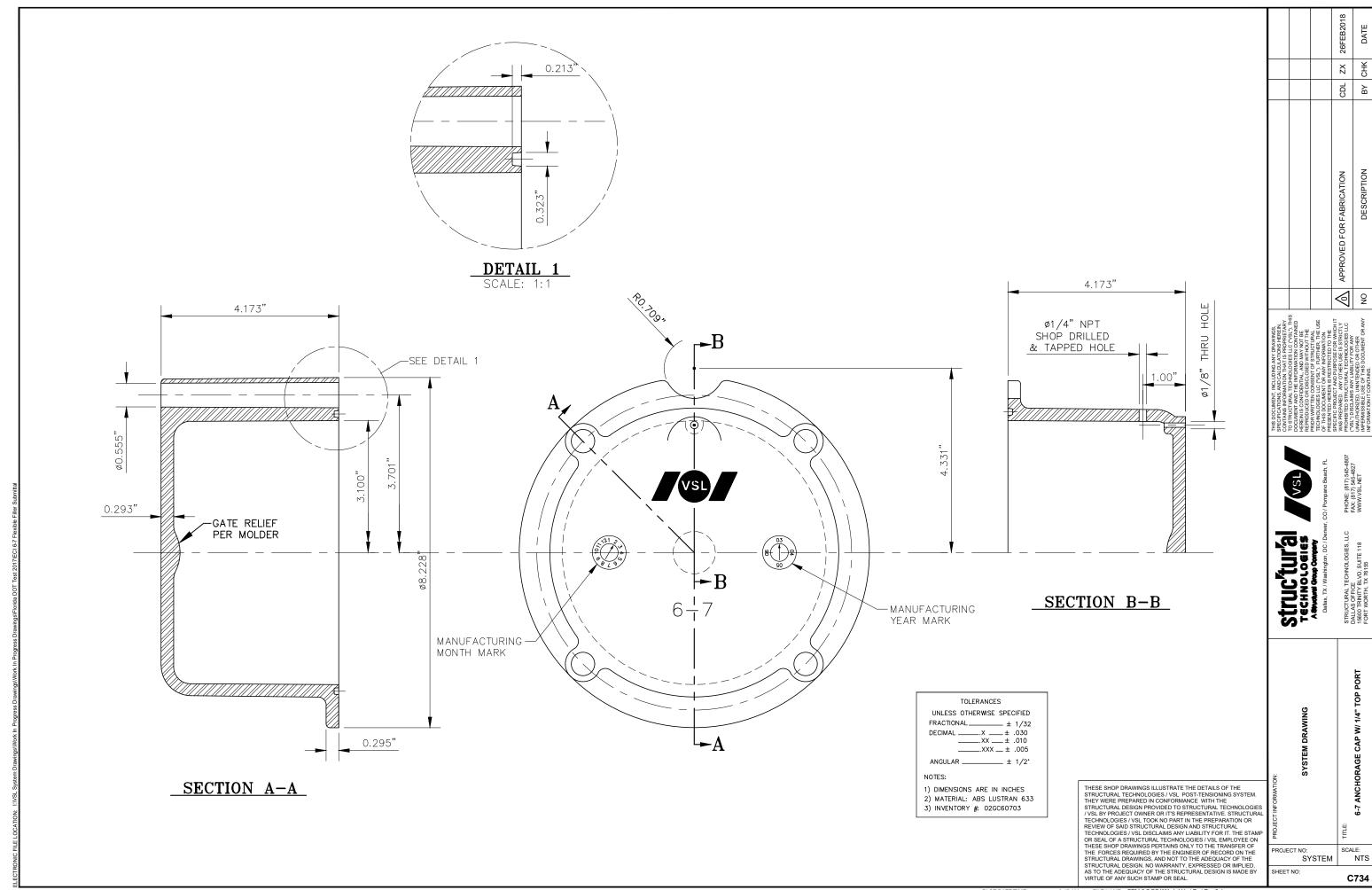
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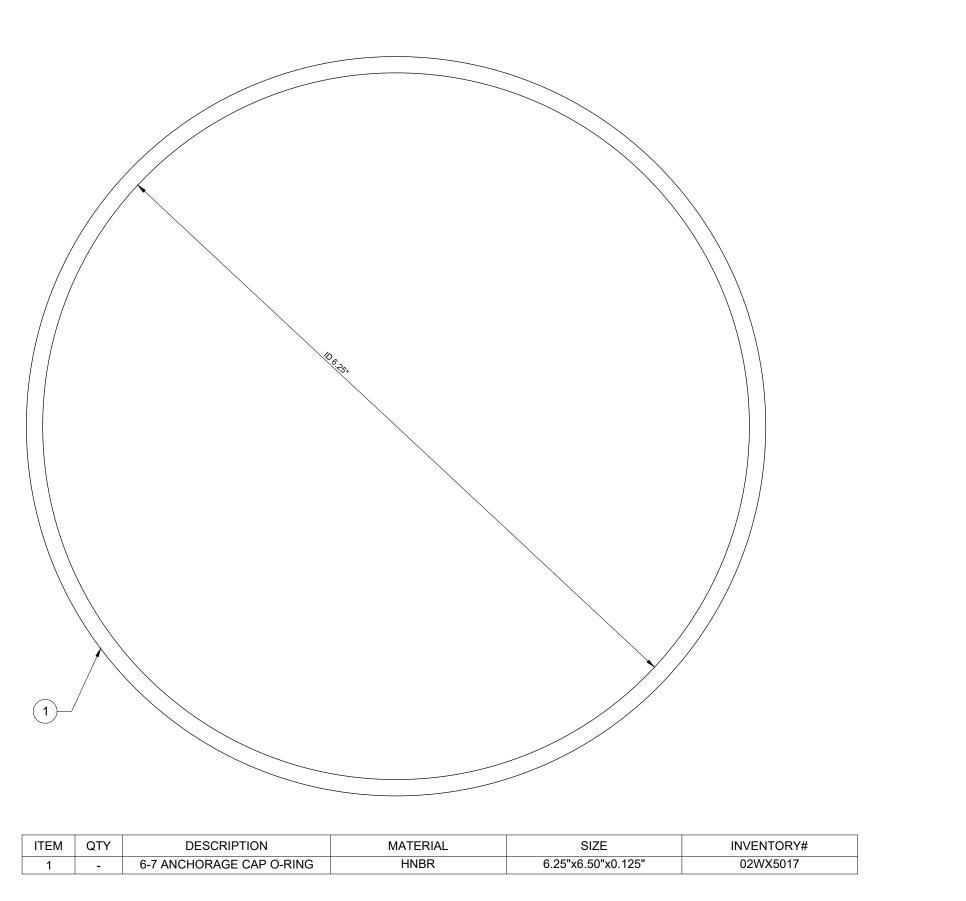
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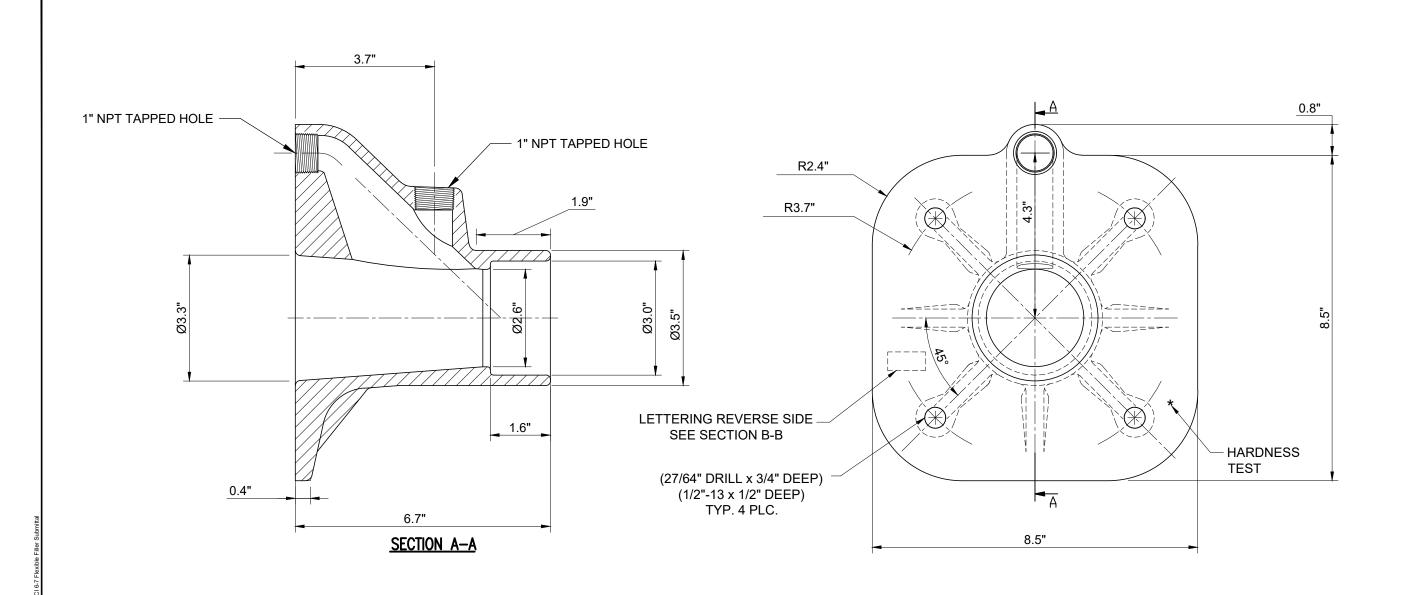


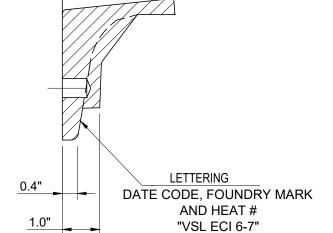




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SECTION B-B

GENERAL NOTES

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

INVENTORY No. 02BP0036V (GALVANIZED)

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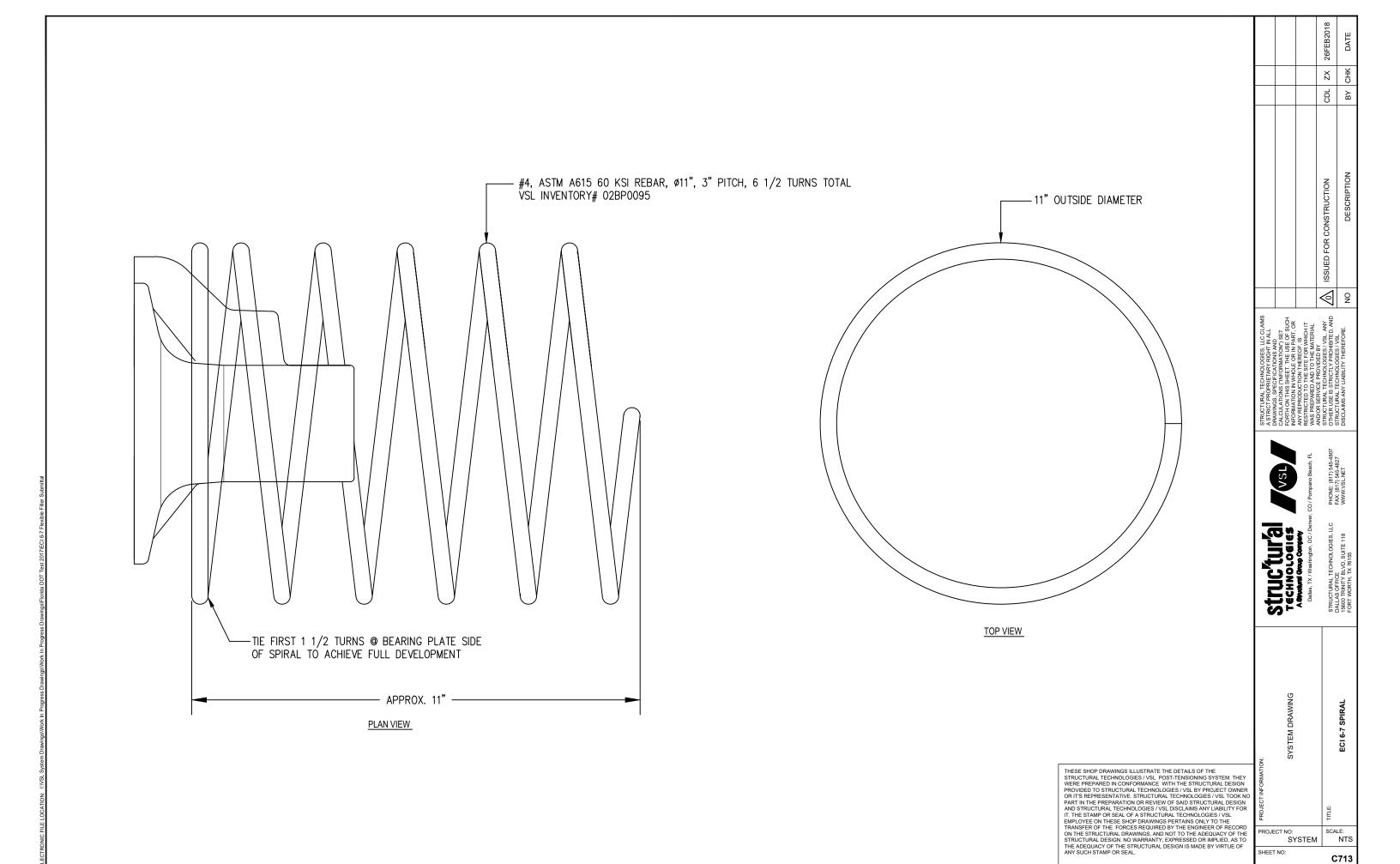
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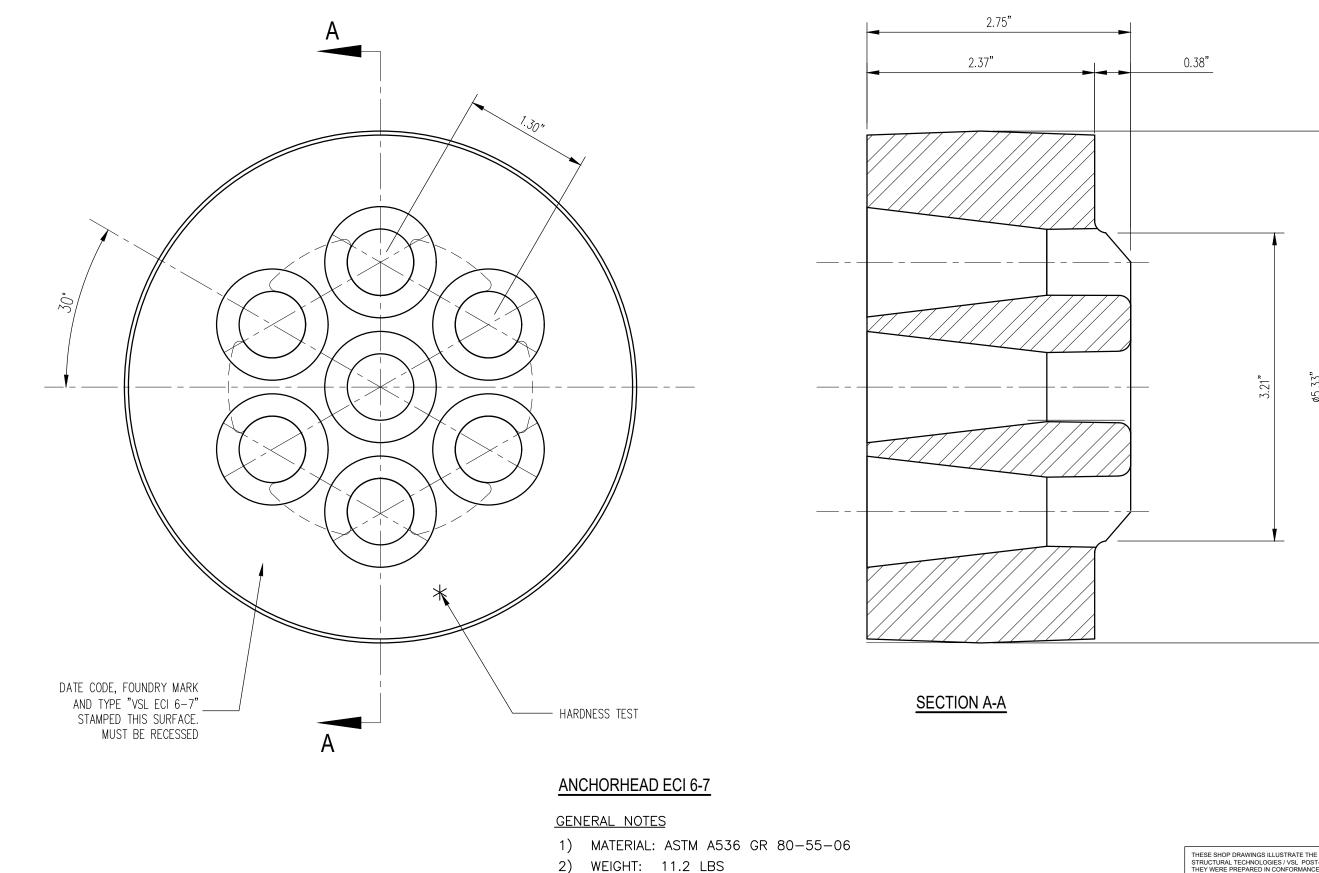
Dallas, TX / Washington, DC / Denver, CO / Pomps

RUCTURAL TECHNOLOGIES, LLC PHONE:

LLAS OFFICE FAX: (61

PROJECT INFORMATION:
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TITLE:
ECI 6-7 BEARING PLATE W/ 1" NPT PORT





INVENTORY No. 02AH0036

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PROJECT INCORMATION:

SYSTEM DRAWING

SYSTEM DRAWING

TITLE:

ECI 6-7 ANCHOR HEAD

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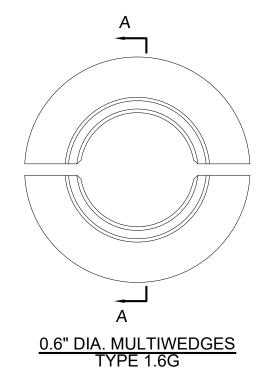
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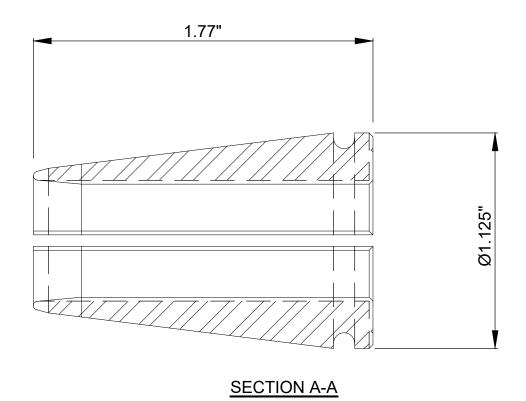
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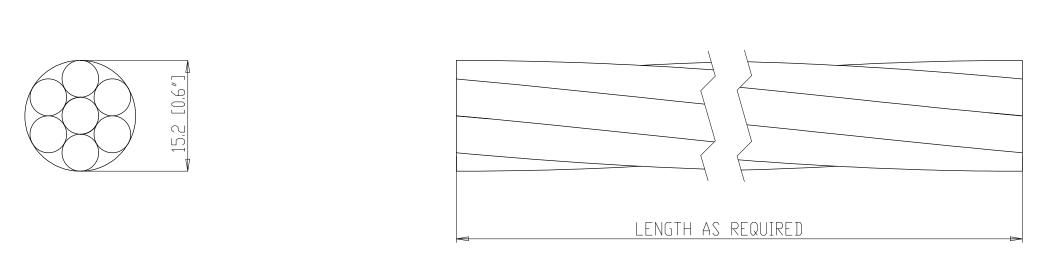
NOTES:

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

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		SPECIFIC PROJECT AND PURPOSE FOR WHICH IT	<				
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VSL POST TENSIONING 0.6" BARE STRAND ASTM A416, 270KSI

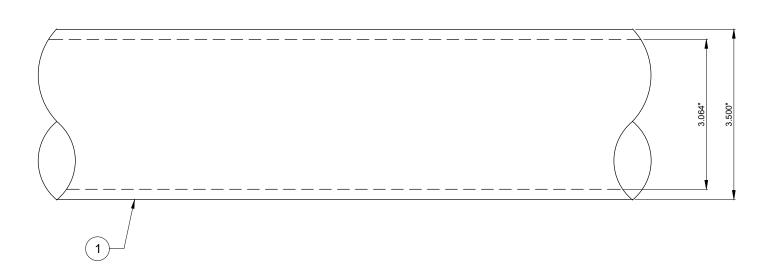
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1	-	3" HDPE PIPE DR-17	ASTM D3035

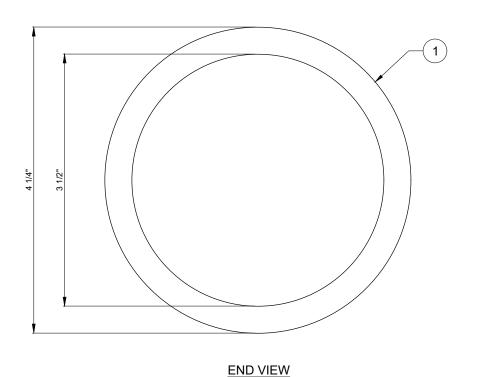
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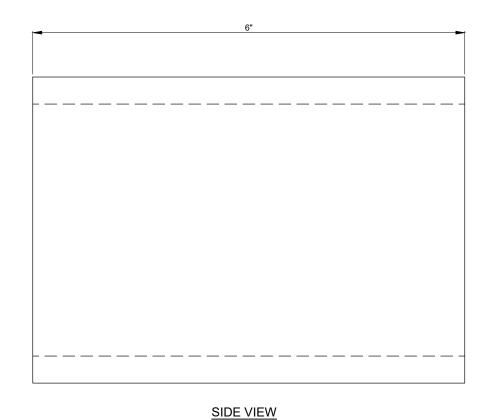
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PROJECT NO: SYSTEM

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

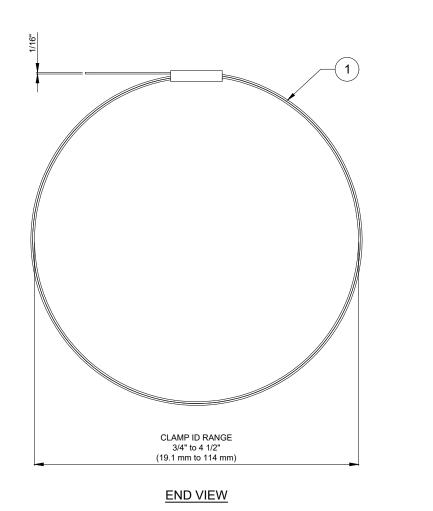
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Dallas, TX / Washington, DC / Dallas, TX / Washington, DC / STRUCTURAL TECHNOLOGIES, D15400 TENUTY RI VD SLITTE 118

PROJECT INFORMATION: SYSTEM DRAWING	тте: 3" ELASTOMER SLEEVE
PROJECT NO:	 SCALE: NTS
SHEET NO:	0750



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

3/8" - 5/8"

SIDE VIEW

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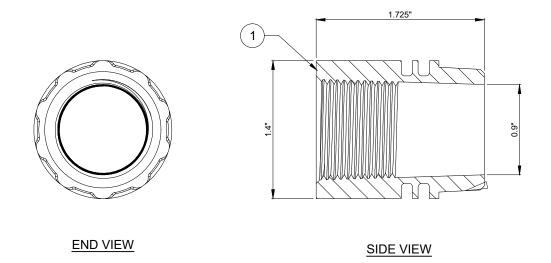
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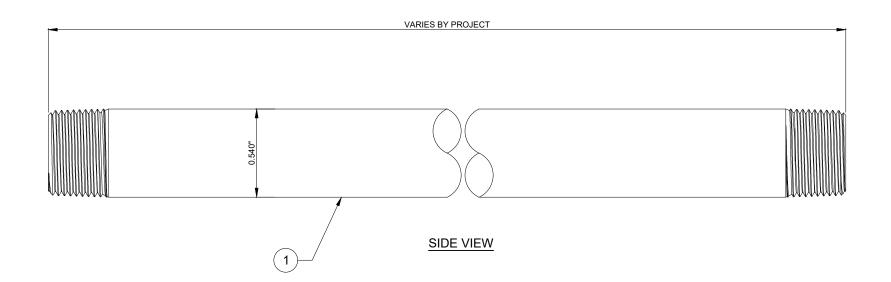
	ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
•	1	-	3/4" FNPT SMOOTH GROUT PORT	POLYETHYLENE	02DT0253

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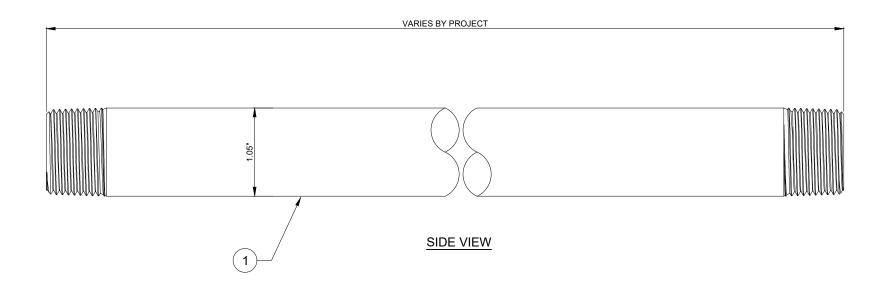
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NPT STEEL NIPPLE 1/4" PROJECT NO: SCALE: NTS SHEET NO: C749



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

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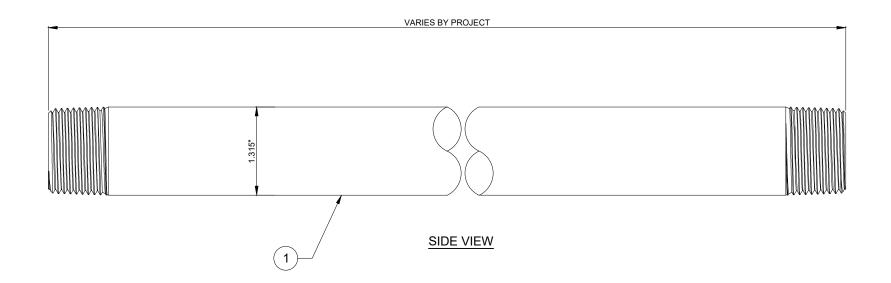
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3/4" NPT STEEL NIPPLE PROJECT NO: SCALE: NTS SHEET NO:



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

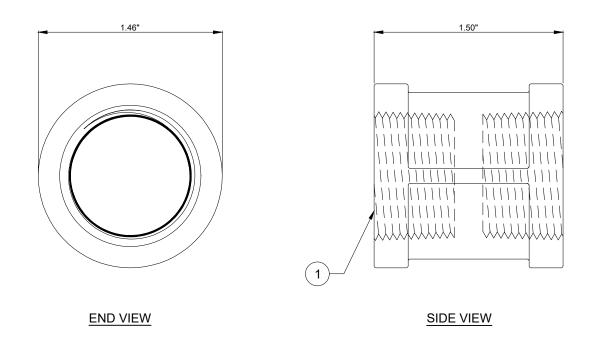
THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL. POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR IT'S REPRESENTATIVE. STRUCTURAL TECHNOLOGIES / VSL TOOK NO PART IN THE PREPARATION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

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

1" NPT STEEL NIPPLE PROJECT NO: SCALE: NTS



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

26FEB2018 X CDL ON ON STRUCTURAL TECHNOLOGIES, LLC CLAIMS
ASTROT PROPREITARY REITH NALL
DRAWINGS, SPECIFICATIONS AND
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STRUCTURAL TECHNOLOGIES IN SALANY
DISCLAMINS ANY LIABILITY THEREFORE. PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET 3/4" NPT F/F COUPLER

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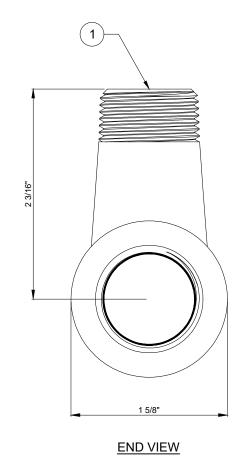
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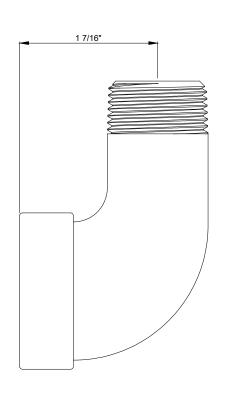
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PROJECT NO:

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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 IT'S 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 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 DEAWINGS, AND NOT TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN. THE STRUCTURAL DESIGN. STAMP OR SEAL. SHEET NO:





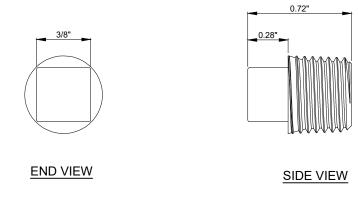
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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	3/4" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01954

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES / VSL POST-TENSIONING SYSTEM. THEY WERE PREPARED IN COMFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR IT'S 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 DESIGN, NO WARRANTY, EXPRESSED OR IMPLIED, AS 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.

		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN ALL					
SYSTEM DRAWING	TECHNOLOGIES TECHNOLOGIES	CATHON THIS SHEET. THE USE OF SUCH					
	A Structural Group Company Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL	ANY REPRODUCTION THEREOF, IS RESTRICTED TO THE SITE FOR WHICH IT WAS PREPARED AND TO THE MATERIAL					
	STRUCTURAL TECHNOLOGIES, LLC PHONE: (817) 545-4807	AND/OR SERVICE PROVIDED BY STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND	PIRST ISSUE	SUE	CDL	X	CDL ZX 26FEB
PT X MNPT STEEL ELBOW	DALLAS OFFICE FAX: (817) 545-4827 15600 TRINITY BLVD, SUITE 118 WWW.VSL.NET FORT WORTH, TX 76155	STRUCTURAL TECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	ON	DESCRIPTION	ВУ	H.	BY CHK DAT

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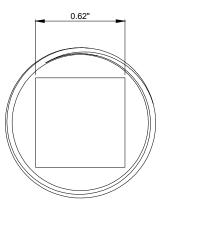
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1/4" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01956

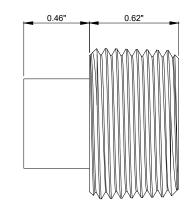
STRUCTURAL TECHNOLOGIES, LLC CLAIMS
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ANY REPRODUCTION THEREOF, IS
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AND/OR SERVICE PROVIDED BY
STRUCTURAL TECHNOLOGIES / VSL. ANY
OTHER USE IS STRACTLY PROHIBITED. AND
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OTHER USE IS STRACTLY PROHIBITED. AND
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DISCLAIMS ANY LIBBILITY THEREFORE. PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET 1/4" NPT STEEL PLUG SCALE: PROJECT NO: NTS SHEET NO: C747

26FEB2018 DATE

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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 IT'S 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, PETTAINS 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. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO ANY SUCH STAMP OR SEAL.





END VIEW

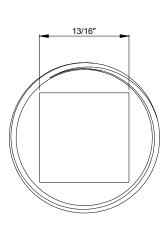
SIDE VIEW

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

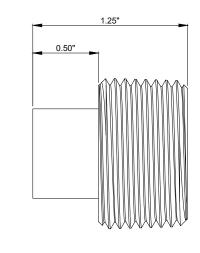
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SYSTEM DRAWING	TECHNOLOGIES	CALCULATIONS AND CALCULATIONS AND INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH INFORMATION IN WHOLE OR IN PART. OR					
	A Structural Group Company	ANY REPRODUCTION THEREOF, IS					
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		AND/OR SERVICE PROVIDED BY	_				
ú	STRUCTURAL TECHNOLOGIES, LLC PHONE: (817) 545-4807	STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRUCTLY PROHIBITED, AND	<u>.</u>	FIRST ISSUE	CDL	X	CDL ZX 26FEB2
3/4" NPT STEEL PLUG	D, SUITE 118 76155	DISCLAIMS ANY LIABILITY THEREFORE.	9	DESCRIPTION	ВУ СНК	OHK.	DATE

SCALE: NTS



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SIDE VIEW

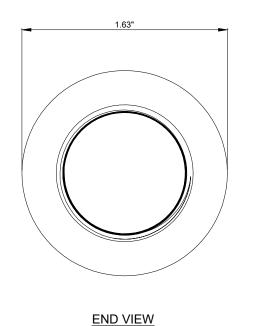
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1" NPT STEEL PLUG	316 STAINLESS STEEL	02DT01958

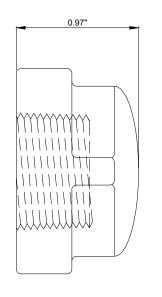
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		(VSL))	ar, CO / Pompano Beach, FL		PHONE: (817) 545-4807	FAX: (817) 545-4827 WWW.VSL.NET	
	etriic/tiir/a	TO T	A Structural Group Company	Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL		STRUCTURAL TECHNOLOGIES, LLC	DALLAS OFFICE 15600 TRINITY BLVD, SUITE 118 FORT WORTH. TX 76155	
	JRMATION:	SYSTEM DRAWING					1" NPT STEEL PLUG	
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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 IT'S 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. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO ANY SUCH STAMP OR SEAL.



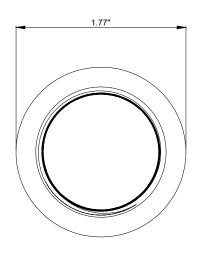


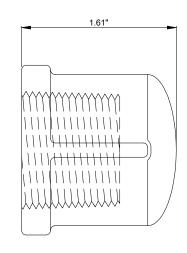
SIDE VIEW

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

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 IT'S REPRESSENTATIVE. 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 STRAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES / VSL. DISCLAIMS ANY LIABILITY FOR IT. THE STRUCTURAL OF A STRUCTURAL TECHNOLOGIES / VSL. DISCLAIMS ANY LIABILITY FOR IT. THE STRUCTURAL OF A STRUCTURAL TECHNOLOGIES / VSL. DISCLAIMS ANY LIABILITY FOR IT. THE STRUCTURAL DESIGN NO NOT NOT THE A DEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN. STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

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		Dallas, TX / Washington, DC / Denver, CO / Pompano Beach, FL	WAS PREPARED AND TO THE MATERIAL					
+	пте	STRUCTURAL TECHNOLOGIES, ILC PHONE: (817) 545-4907	STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND OTHER USE IS TRICTLY OF REAL STRICTLY	0	FIRST ISSUE	CDL	X	CDL ZX 26FEB20
	3/4" NPT STEEL CAP	/D, SUITE 118 76155	DISCLAIMS ANY LIABILITY THEREFORE.	ON	DESCRIPTION	BY (ву снк	DATE





END VIEW

SIDE VIEW

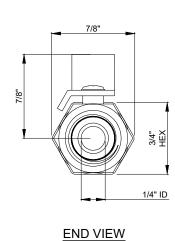
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1" NPT STEEL CAP	SCH 40 STEEL	02DT01951

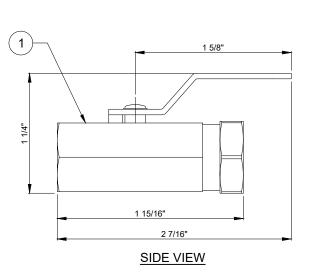
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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY#
1	-	1/4" F/F NPT 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924

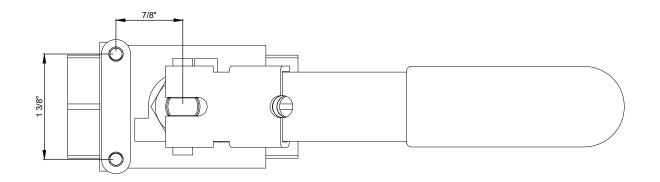
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STRUCTURAL TECHNOLOGIES IVE
STRUCTURAL TECHNOLOGIES PHONE: (817) 545-4807 FAX: (817) 545-4827 WWW.VSL.NET 1/4" F/F NPT 1/4 TURN BALL VALVE

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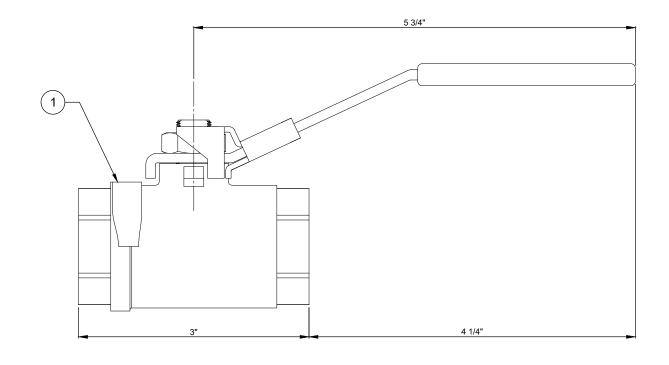
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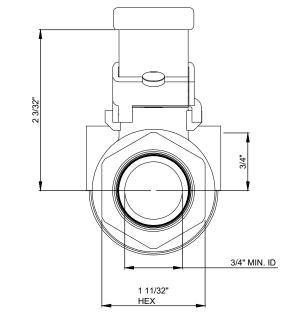
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TOP VIEW





SIDE VIEW

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

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 IT'S 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. THE STRUCTURAL DESIGN. STRUCTURAL DESIGN.

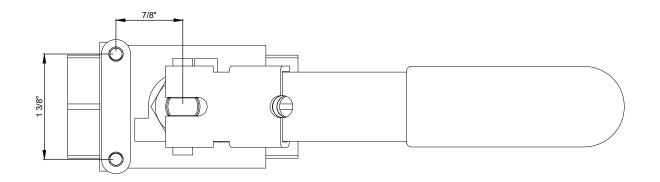
FORMATION:		STRUCTURAL TECHNOLOGIES, LLC CLAIMS A STRICT PROPRIETARY RIGHT IN A LL					
		DRAWINGS SPECIFICATIONS AND					
SYSTEM DRAWING	TECHNOLOGIES	CALCULATIONS ("INFORMATION") SET FORTH ON THIS SHEET. THE USE OF SUCH					
	A Smotural Group Company	ANY REPRODUCTION THEREOF, IS					
	Dallas, TX / Washington, DC / Deriver, CO / Pompano Beach, FL	RESTRICTED TO THE SITE FOR WHICH IT WAS PREPARED AND TO THE MATERIAL					
		AND/OR SERVICE PROVIDED BY	<				
	HNOLOGIES, LLC	STRUCTURAL TECHNOLOGIES / VSL. ANY OTHER USE IS STRICTLY PROHIBITED, AND	Ē	FIRST ISSUE	СБГ	X	CDL ZX 26FEB2018
/4" NPT STEEL 1/4 TURN BALL VALVE	DALLOO OFFICE 16600 TRINITY BLVD, SUITE 118 WWW,VSL.NET FORT WORTH, TX 76155	STRUCTURAL LECHNOLOGIES / VSL DISCLAIMS ANY LIABILITY THEREFORE.	ON	DESCRIPTION	BY	ВУ СНК	DATE

PROJECT NO:

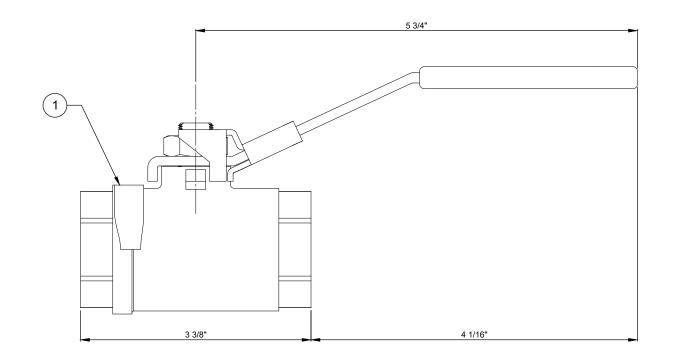
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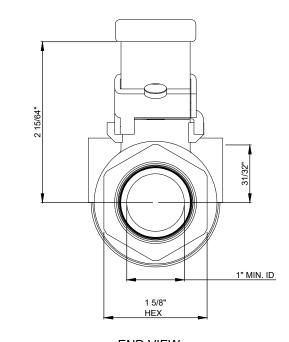
SCALE: NTS

C745



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 5 TRUCTURAL TECHNOLOGIES / VSL BY PROJECT OWNER OR IT'S 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. 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 NO TO TO THE ADEQUACY OF THE STRUCTURAL DESIGN. NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ADEQUACY OF THE STRUCTURAL DESIGN. THE STRUCTURAL DESIGN. STRUCTURAL DESIGN. THE STRUCTURAL DESIGN. THE STRUCTURAL DESIGN. THE STRUCTURAL DESIGN. THE STRUCTURAL DESIGN IS MADE BY VIRTUE OF ANY SUCH STAMP OR SEAL.

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