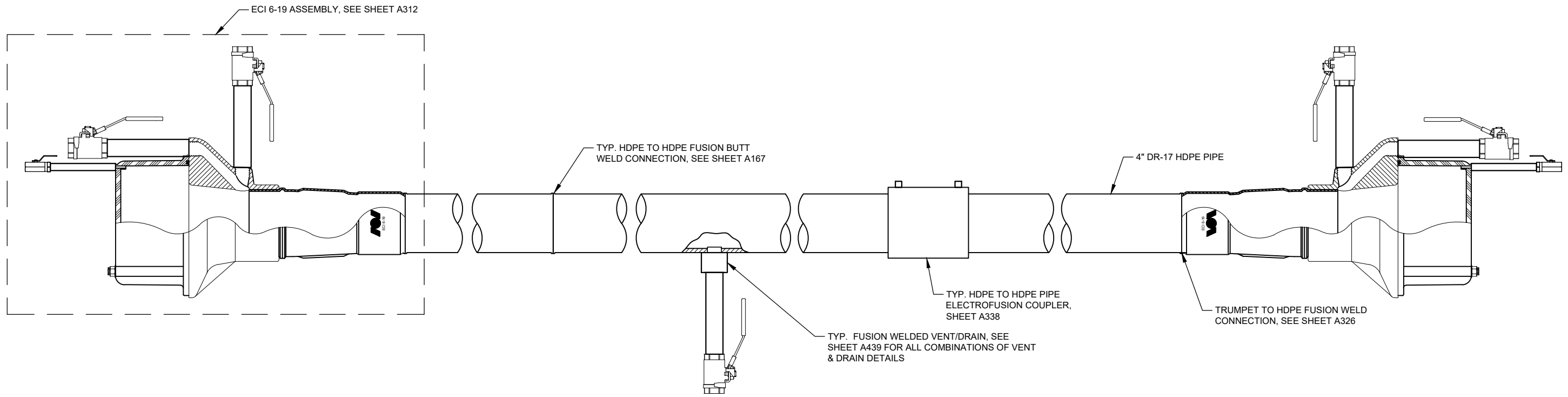
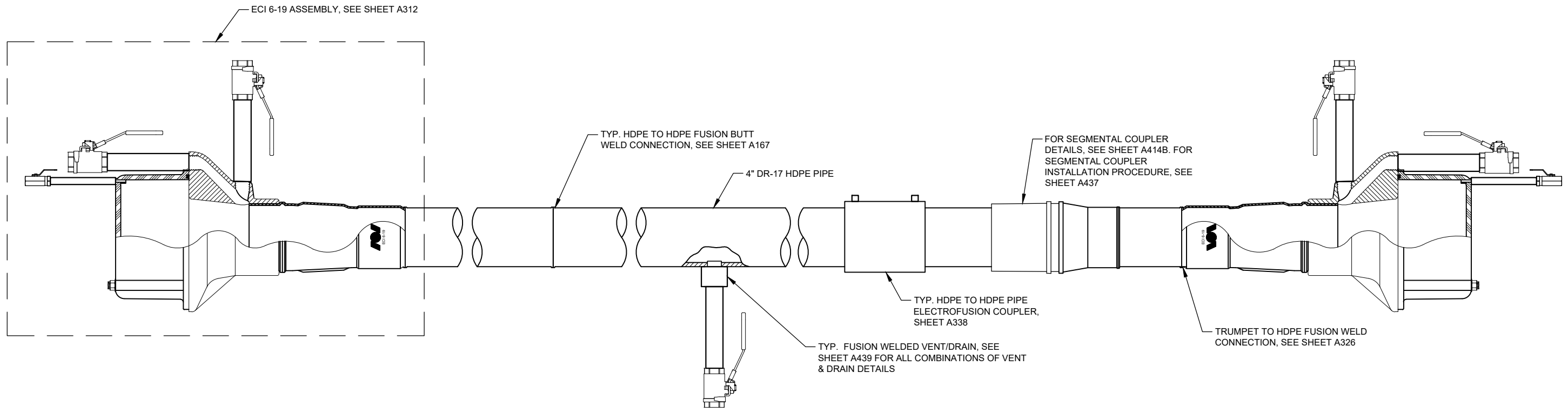


ELECTRONIC FILE LOCATION: I:\SVS\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



TENDON OVERALL ASSEMBLY



SEGMENTAL TENDON OVERALL ASSEMBLY

- NOTES:**
- CONNECTIONS & MATERIALS SHOWN IN EITHER CONFIGURATION CAN BE USED INTERCHANGEABLE, OMITTING ANY CONNECTIONS NOT REQUIRED FOR A PARTICULAR JOB.
 - COLD/FIELD MINIMUM BEND RADIUS FOR 4" HDPE PIPE IS 20'-0".
 - HOT/PRE-BENT MINIMUM BEND RADIUS FOR 4" HDPE PIPE WITH 19 STRANDS IS 10'-0". REFER TO HDPE PIPE HEATED PRE-BENDING PROCEDURE.

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES, LLC POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES, LLC BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES, LLC TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES, LLC DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES, LLC 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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APPROVED FOR CONSTRUCTION	CDL	ZX	18FEB2020
DESCRIPTION	BY	CHK	DATE
NO			

structural TECHNOLOGIES

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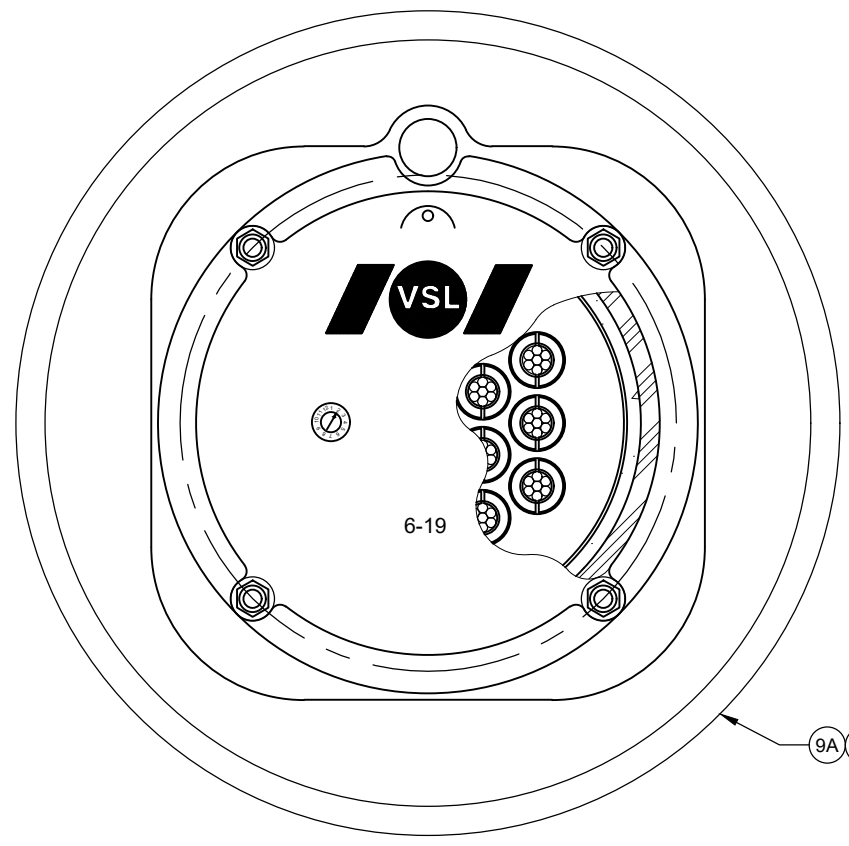
STRUCTURAL TECHNOLOGIES, LLC
CORPORATE OFFICE

10150 OLD COLUMBIA RD
COLUMBIA, MD 21046

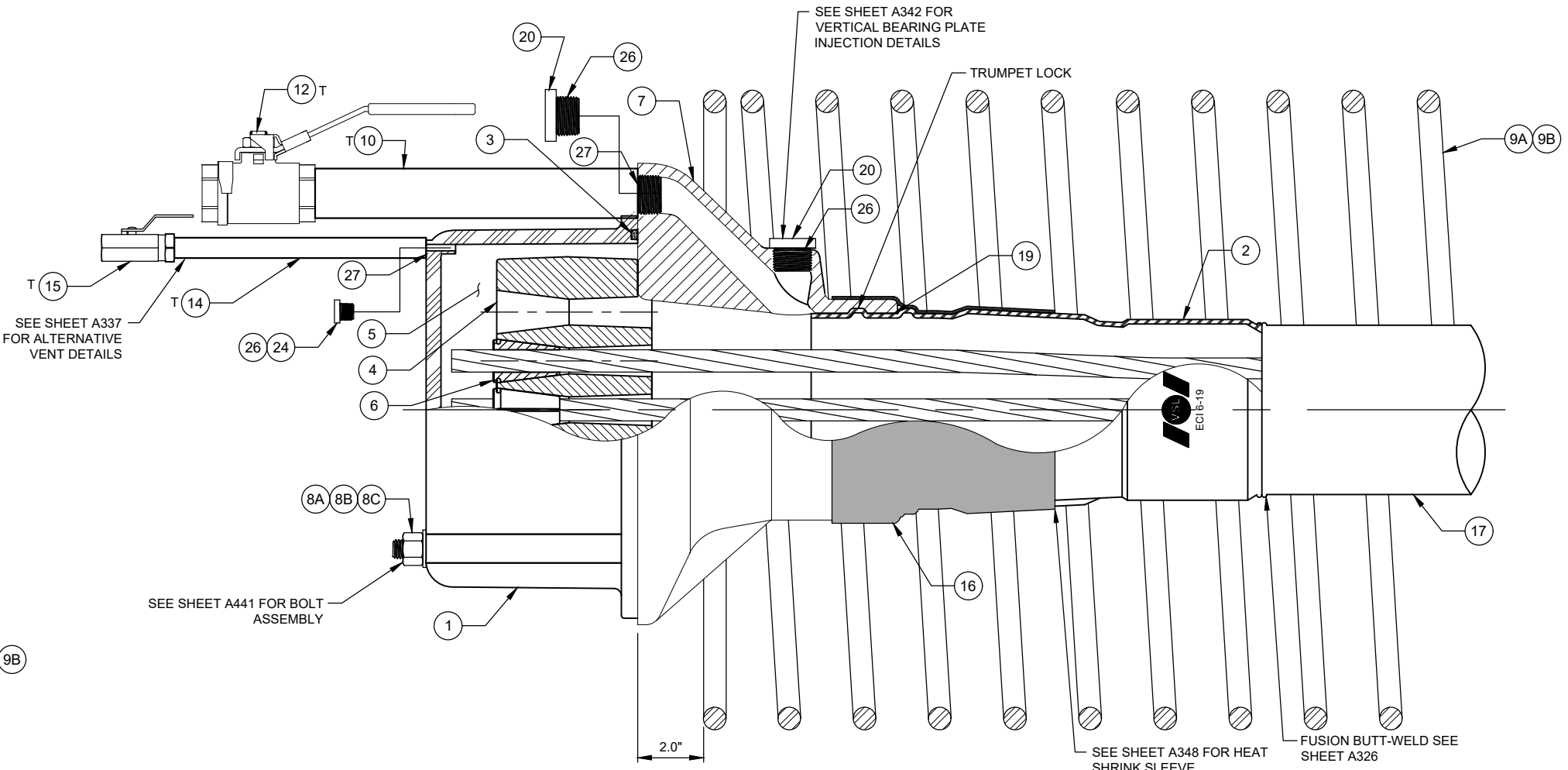
PHONE: (410) 850-7000
structuraltechnologies.com

PROJECT INFORMATION:	SYSTEM DRAWING
TITLE:	ECI 6-19 TENDON W/ FLEXIBLE FILLER OVERALL ASSEMBLY
PROJECT NO:	SYSTEM
SCALE:	NTS
SHEET NO:	A313A

ELECTRONIC FILE LOCATION: I:\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler System Drawing\Submittal



END VIEW



ELEVATION VIEW

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

- INSTALLATION PROCEDURES (INSTALLATION PROCEDURE IS GENERIC. FOLLOW THE PROJECT SPECIFIC REQUIREMENTS AND THE FDOT SPECIFICATIONS)
- 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.
 - LIGHTLY GREASE ANCHORAGE CAP BOLTS. USE MOUNTING HOLES IN BEARING PLATE TO MOUNT BEARING PLATE ASSEMBLY TO FORM. SECURE BEARING PLATE ASSEMBLY WITH ANCHORAGE CAP BOLTS. USE CARE NOT TO DAMAGE THREADS.
 - INSTALL AND SECURE SPIRAL.
 - INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPE/SILICONE GREASE (BY OTHERS), AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR (BY OTHERS).
 - SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.
 - PER FDOT SPECIFICATION SECTION 462-8.2.1.2, A VACUUM TEST IS REQUIRED PRIOR TO CONCRETE PLACEMENT.
 - CONCRETE PLACEMENT OCCURS BY OTHERS.
 - INSTALL STRAND. LEAVE SUFFICIENT STRAND FOR STRESSING EQUIPMENT.
 - INSTALL ANCHOR HEADS. MAKE SURE WEDGE CAVITIES ARE CLEAN AND RUST FREE. USE WIRE BRUSH TO CLEAN IF NECESSARY. ALIGN ANCHOR HEAD TO BEARING PLATE USING AN ANCHORAGE CAP TEMPLATE.
 - ONLY STRESS STRANDS IF CONCRETE HAS REACHED REQUIRED STRENGTH SPECIFIED ON DRAWINGS.
 - ELONGATION SHOULD BE WITHIN ±7%.
 - AFTER ENGINEERS APPROVAL, STRAND TAILS MAY BE CUT.
 - AFTER FORM WORK IS REMOVED, USE MOUNTING BOLTS TO INSTALL ANCHORAGE CAP WITH O-RING.
 - SYSTEM IS NOW READY TO AIR TEST.
 - PER THE FDOT SPECIFICATION SECTION 462-8.2.2, A SECOND AIR PRESSURE TEST IS REQUIRED AFTER STRAND STRESSING AND PRIOR TO WAX INJECTION.
 - WAX TENDON PER WAX SPEC.

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	1	ECI 6-19 ANCHORAGE CAP W/ 1/4" NPT HORIZONTAL PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC61902	C549
2	1	ECI 6-19 TRUMPET	HDPE BLACK PER ASTM D3350	02BP4322	C579
3	1	ECI 6-19 ANCHORAGE CAP O-RING	BUNA-N 70 D PER FDOT TABLE 2.2.1.7-1	02WX6020	C794
4	1	ECI 6-19 ANCHOR HEAD	CAST IRON GR80-55-06 PER ASTM A536	02AH0038	C557
5	-	FLEXIBLE FILLER	FDOT APL	-	-
6	19	1.6G WEDGE .6 1.77 W/GROOVE	AISI 11-L-17 PER ASTM A108	02WG0008	C218
7	1	ECI 6-19 BEARING PLATE W/ 1" NPT PORT GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02BP0038V	C738
8A	1 SET	1/2"-13 THREADED ROD X 7"	(316L) STAINLESS PER ASTM F593	02WX5033D	A441
8B	1 SET	1/2"-13 NUT	(316L) STAINLESS PER ASTM A240	02WX5033D	A441
8C	1 SET	1/2" WASHER	(316L) STAINLESS PER ASTM A240	02WX5033D	A441
9A	1	SPIRAL ECI 6-19 5500 (#5 15" DIA., 10 1/2 TURNS, 2" PITCH)	STEEL GR60 PER ASTM A615	02BP0094	C679
9B	1	SPIRAL ECI 6-19 3500 (#5 17" DIA., 11 1/2 TURNS, 2" PITCH)	STEEL GR60 PER ASTM A615	02BP0093	C679
10	1	1" NPT STEEL NIPPLE	SCH 40 STEEL	-	C725
12	1	1" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01926	C746
14	1	1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-	C749
15	1	1/4" NPT STEEL 1/4 TURN BALL VALVE	SCH 40 STEEL	02DT01924	C744
16	1	CANUSA KLNN-115 WS BK/L X 9" HEAT SHRINK SLEEVE	POLYOLEFIN PER FDOT TABLE 2.2.1.8-1	02DT0514	C763
17	-	4" DR-17 PIPE	HDPE BLACK PER ASTM D3350	-	C882B
19	-	BONDUIT - SEAL AID 1/4" ALL AROUND	COMMERCIALY AVAILABLE	-	-
20	1	1" NPT PP PLUG	BLACK POLYPROPYLENE PER ASTM D4101	02DT01948	C879
24	1	1/4" NPT PE PLUG	HDPE BLACK PER ASTM D3350	02DT01919	C693
26	-	BONDUIT	COMMERCIALY AVAILABLE	-	-
27	-	SILICONE GREASE	COMMERCIALY AVAILABLE	-	-

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PROJECT INFORMATION:

SYSTEM DRAWING

ECI 6-19 ASSEMBLY WITH FLEXIBLE FILLER

STRUCTURAL TECHNOLOGIES, LLC
10150 OLD COLUMBIA RD
COLUMBIA, MD 21046

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

PHONE: (410) 850-7000
structuraltechnologies.com

APPROVED FOR CONSTRUCTION

NO

CDL ZK

29JAN2020

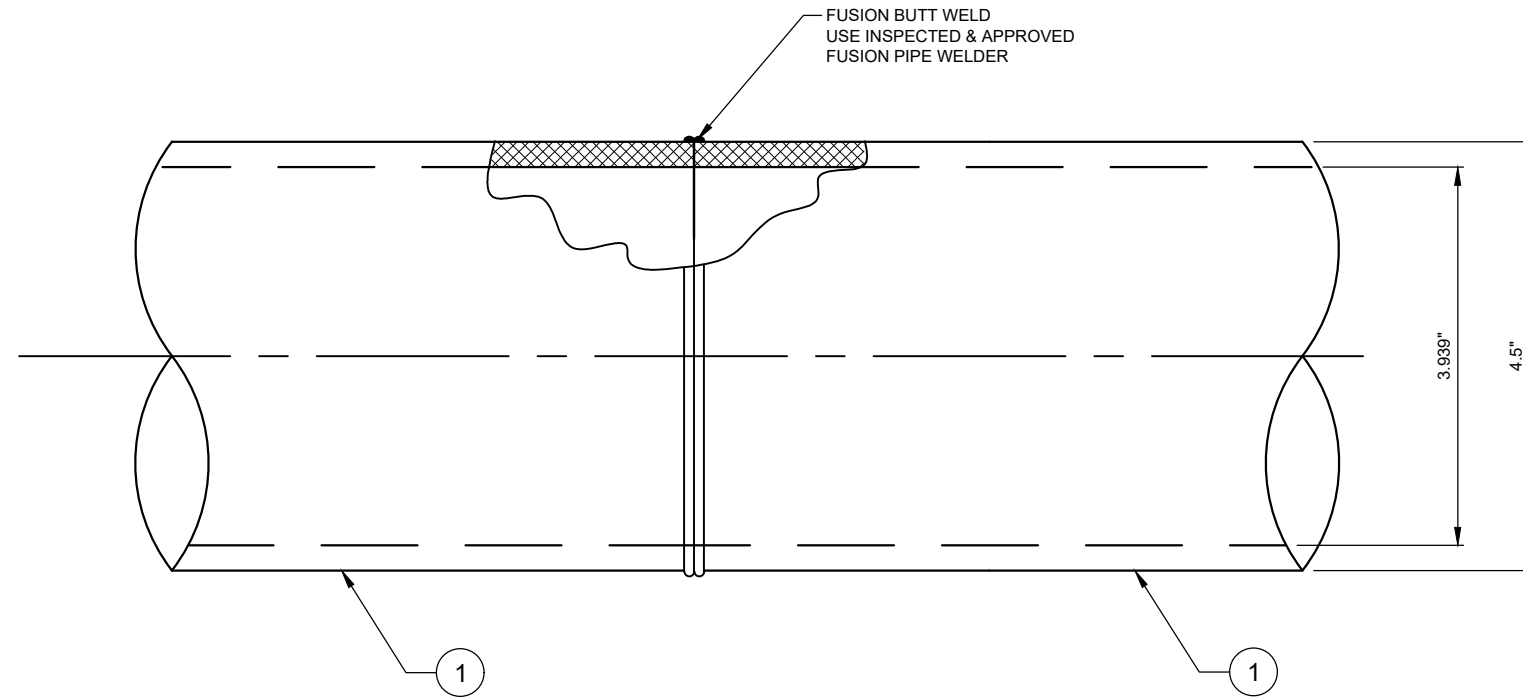
PROJECT NO: SYSTEM

SCALE: NTS

SHEET NO: A312

DATE: 29JAN2020

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



ELEVATION VIEW

NOTES:

1. HDPE 4" IPS/DR-17 MEETS FDOT 960 SPEC.
2. SEE VSL BUTT-WELDING PROCEDURE IN APPENDIX

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ITEM	QTY	DESCRIPTION	MATERIAL	DWG #
1	2	4" HDPE PIPE DR-17	HDPE BLACK PER ASTM D3350	C882B

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
4" HDPE TO 4" HDPE PIPE FUSION WELDED

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

A167

NO

APPROVED FOR CONSTRUCTION

BY

CDL ZX

CHK

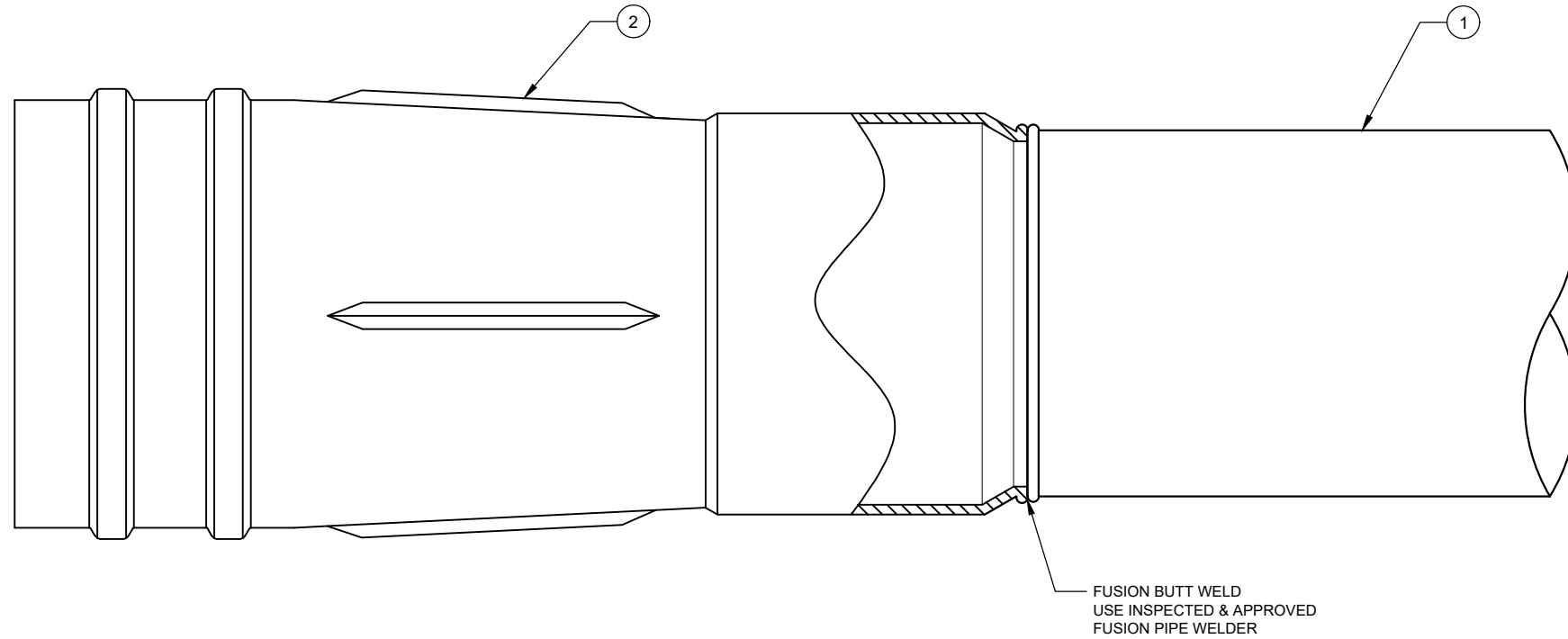
DATE

29JAN2020

structural TECHNOLOGIES

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 860-7000
 structuraltechnologies.com

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



TRUMPET TO HDPE PIPE ASSEMBLY

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	1	4" HDPE PIPE DR-17	HDPE BLACK PER ASTM D3350	-	C882B
2	1	ECI 6-19 TRUMPET	HDPE BLACK PER ASTM D3350	02BP4322	C579

- NOTES:
 1. HDPE 4" IPS/DR-17 MEETS FDOT 960 SPEC.
 2. SEE VSL BUTT-WELDING PROCEDURE IN APPENDIX

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PROJECT INFORMATION:

PROJECT NO:	SYSTEM	SCALE:	NTS
SHEET NO:			A326

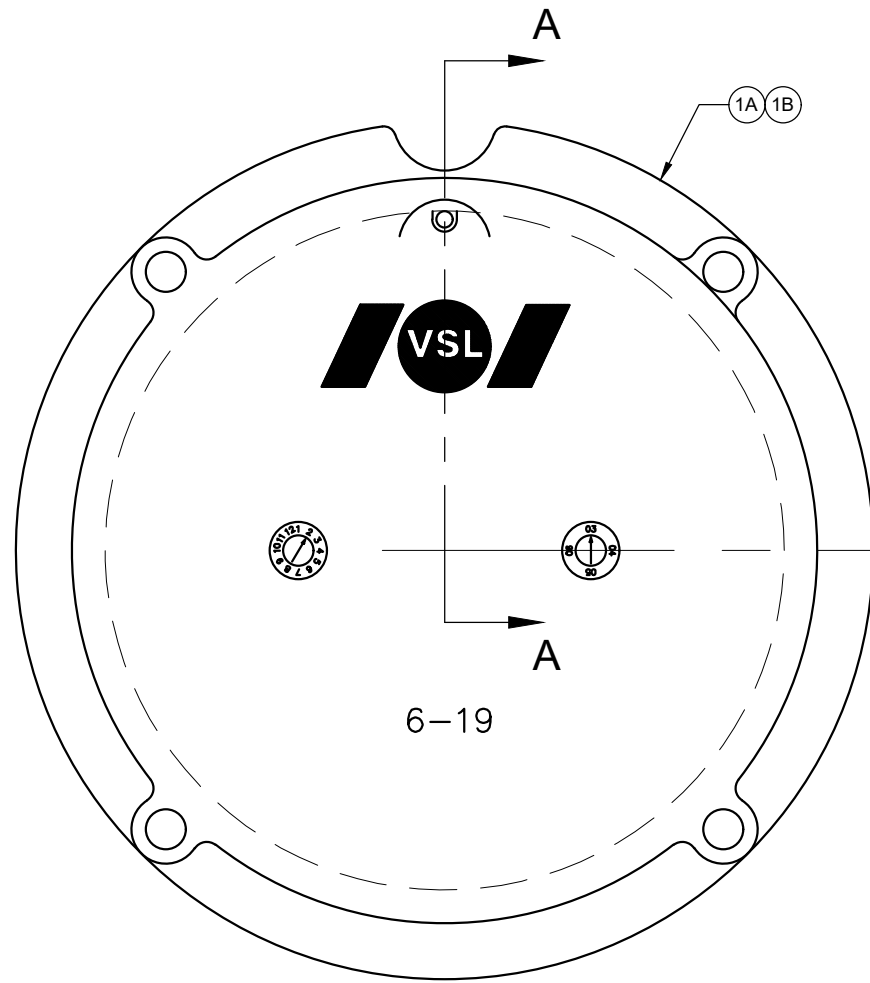
SYSTEM DRAWING

TITLE:
TYPICAL ECI 6-19 TRUMPET TO HDPE PIPE BUTT FUSION CONNECTION

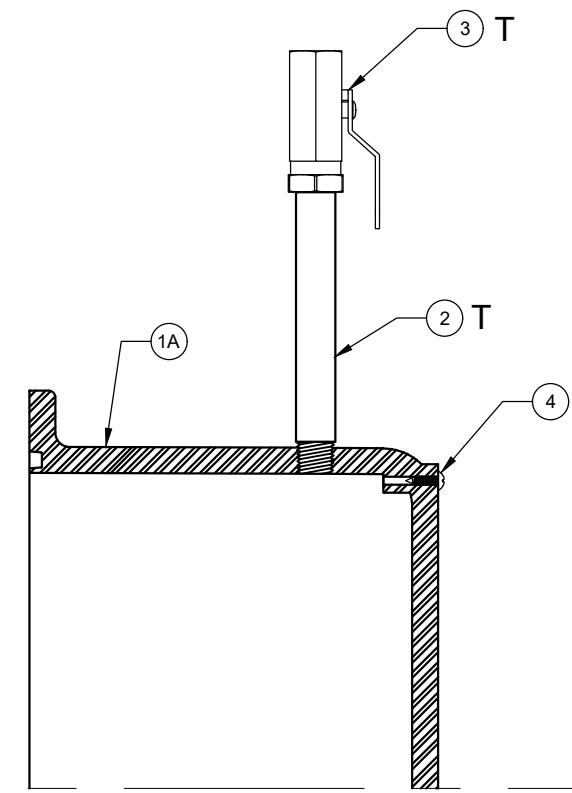
structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046
 CORPORATE OFFICE
 PHONE: (410) 860-7000
 structuraltechnologies.com

APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
DESCRIPTION	BY	CHK
NO		DATE

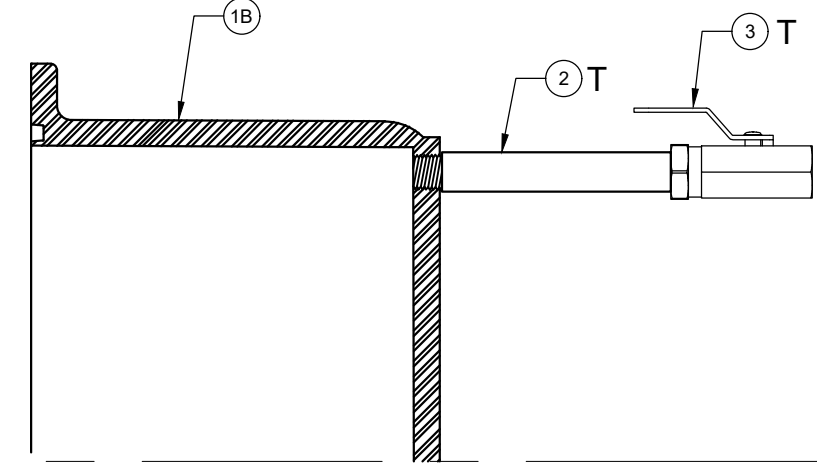
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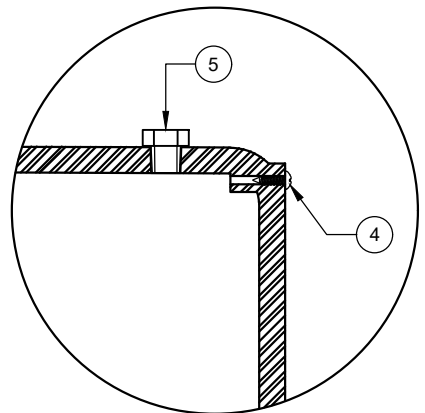
ECI 6-19 ANCHORAGE CAP



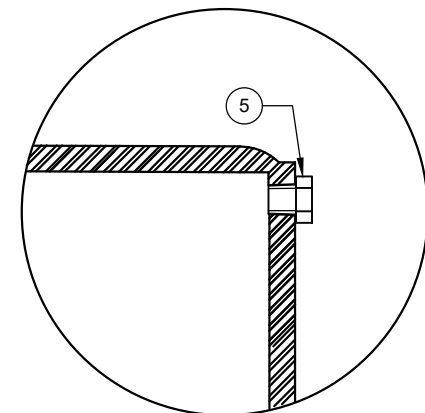
VERTICAL PORT



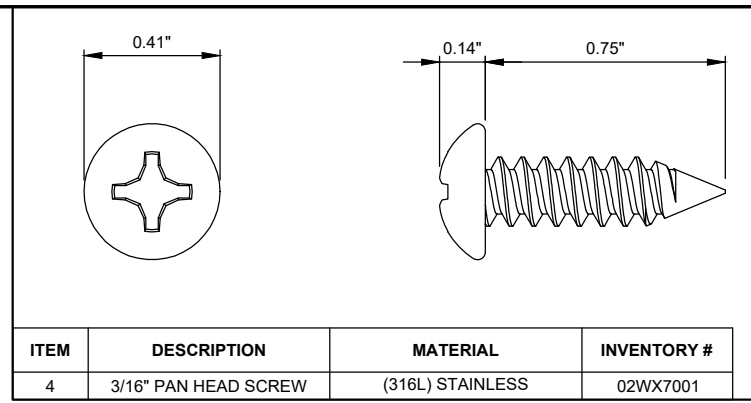
HORIZONTAL PORT



AFTER WAX



AFTER WAX



ITEM	DESCRIPTION	MATERIAL	INVENTORY #
4	3/16" PAN HEAD SCREW	(316L) STAINLESS	02WX7001

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1A	1	ECI 6-19 ANCHORAGE CAP W/ 1/4" VERT. PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC61903	C740
1B	1	ECI 6-19 ANCHORAGE CAP W/ 1/4" HORIZ. PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC61902	C549
2	1	1/4" NPT STEEL NIPPLE	SCH 80 STEEL	-	C749
3	1	STEEL 1/4 TURN BALL VALVE W/ 1/4" FNPT	SCH 80 STEEL	02DT01924	C744
4	1	3/16" PAN HEAD SCREW	(316L) STAINLESS PER ASTM A240	02WX7001	A337
5	1	1/4" NPT PE PLUG	HDPE BLACK PER ASTM D3350	02DT01919	C693

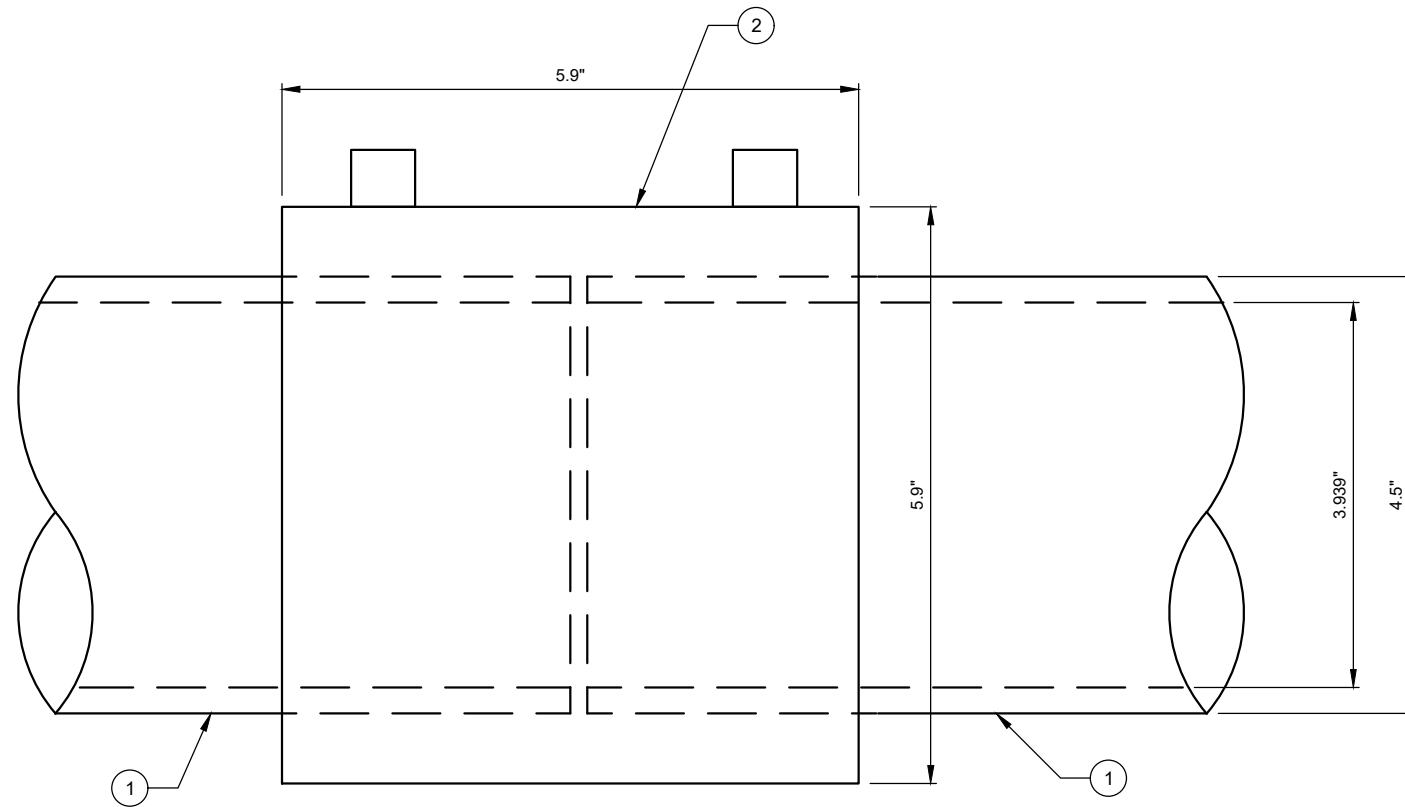
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PROJECT INFORMATION: SYSTEM DRAWING	TITLE: ECI 6-19 ANCHORAGE CAP ALTERNATIVE VENT DETAIL			
PROJECT NO: SYSTEM	SCALE: NTS		SHEET NO: A337	
		APPROVED FOR CONSTRUCTION [Signature]	BY CDL ZX	DATE 29JAN2020
		NO	DESCRIPTION	

ELECTRONIC FILE LOCATION: I:\SVS\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\EC 6-19 Flexible Filler Submittal



ELEVATION VIEW

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

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ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	-	4" HDPE PIPE DR-17	HDPE BLACK PER ASTM D3350	-	C882
2	1	4" ELECTROFUSION COUPLER	COMPOSITE	02EF0004	C895

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
4" HDPE PIPE TO 4" HDPE PIPE
ELECTROFUSION COUPLER CONNECTION

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

A338

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CDL ZX

CHK

DATE

29JAN2020

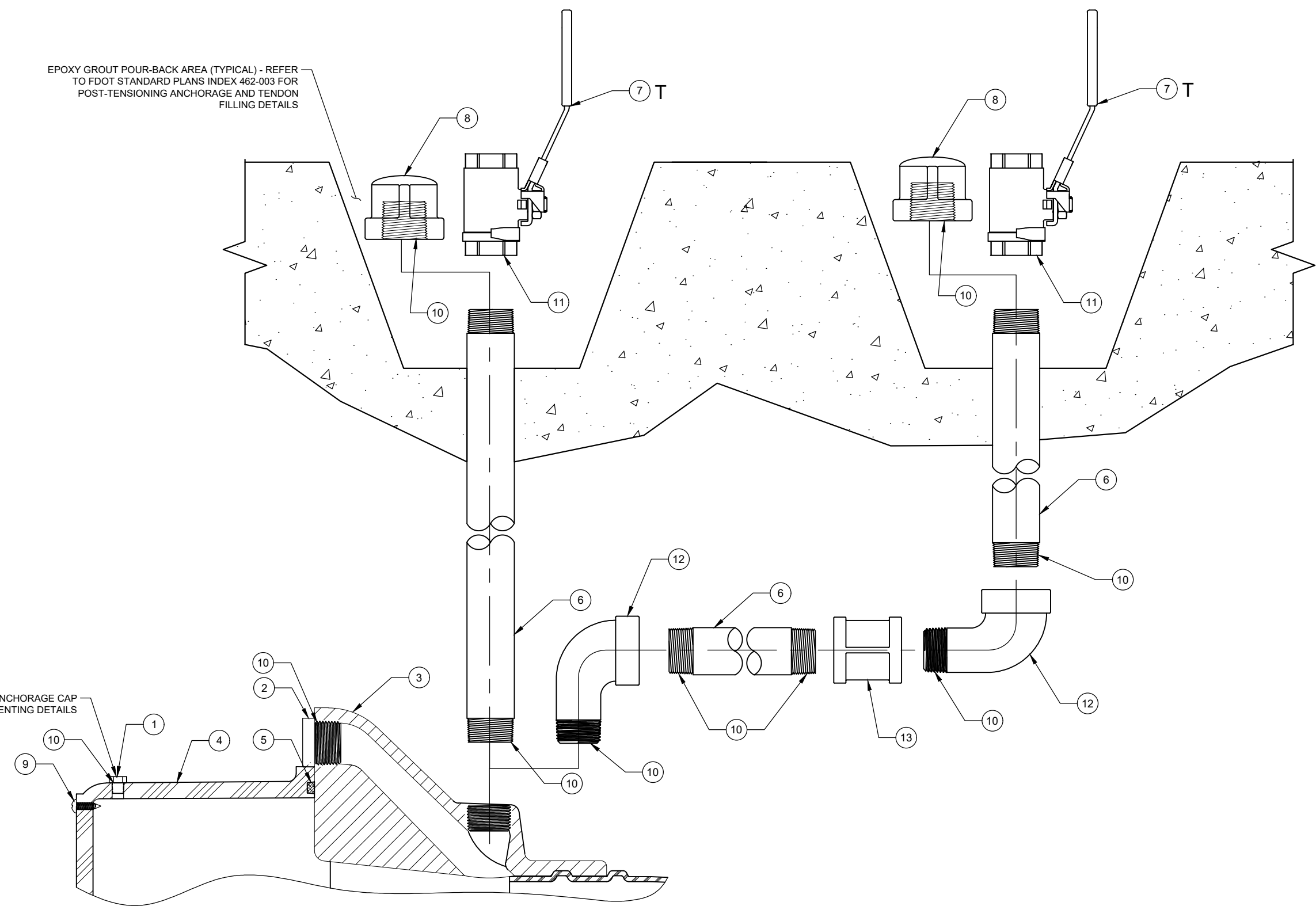
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TECHNOLOGIES**

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
CORPORATE OFFICE COLUMBIA, MD 21046
PHONE: (410) 850-7000
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ELECTRONIC FILE LOCATION: I:\VSI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal

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

SEE SHEET A337 FOR ANCHORAGE CAP ALTERNATIVE VENTING DETAILS



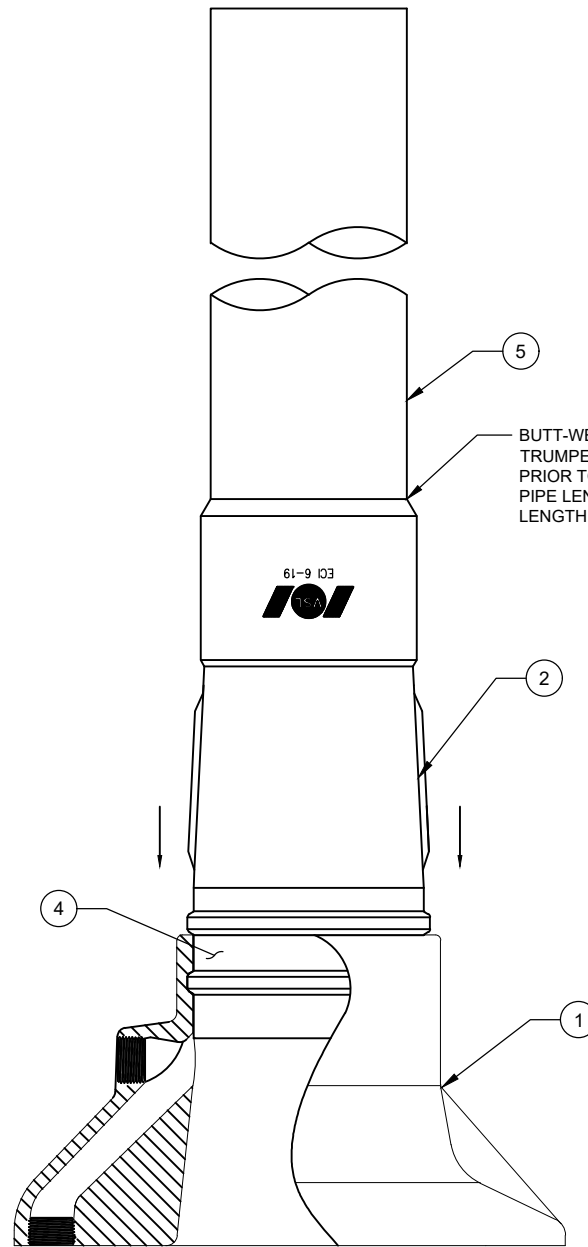
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	1	1/4" NPT PE PLUG	HDPE BLACK PER ASTM D3350	02DT01919	C693
2	1	1" NPT PP PLUG	BLACK POLYPROPYLENE PER ASTM D4101	02DT01948	C879
3	1	ECI 6-19 BEARING PLATE W/ 1" NPT PORT GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02BP0038V	C738
4	1	ECI 6-19 ANCHORAGE CAP W/ 1/4" VERT. PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC61903	C740
5	1	ECI 6-19 ANCHORAGE CAP O-RING	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	02WX6020	C794
6	1	1" NPT NIPPLE	SCH 40 STEEL	-	C725
7	1	STEEL 1/4 TURN BALL VALVE W/ 1" FNPT	SCH 40 STEEL	02DT01926	C746
8	1	1" NPT PP CAP	BLACK POLYPROPYLENE PER ASTM D4101	02DT01941	C877
9	1	3/16" PAN HEAD SCREW	316 STAINLESS STEEL PER ASTM A240	02WX7001	A337
10	-	BONDUIT	COMMERCIALY AVAILABLE	-	-
11	-	SILICONE GREASE	COMMERCIALY AVAILABLE	-	-
12	2	1" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01955	C751
13	1	1" NPT F/F COUPLER	SCH 40 STEEL	02DT01953	C752

- 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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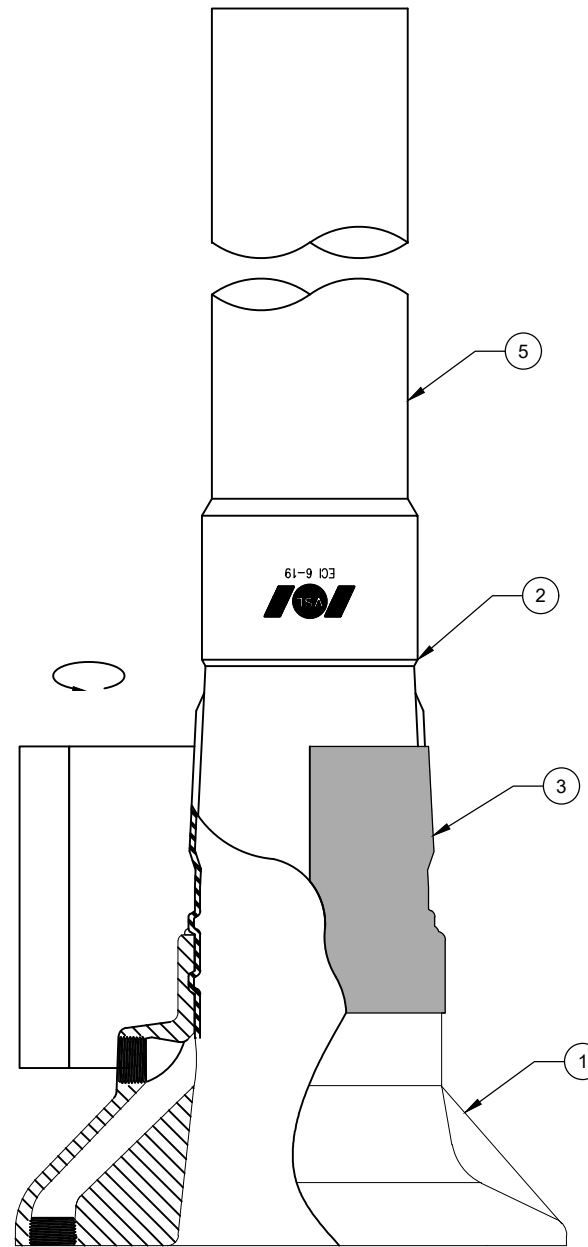
<p>structural TECHNOLOGIES Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL PHONE: (410) 850-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
		NO	BY	DATE
<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p>		<p>TITLE:</p> <p>ECI 6-19 VERTICAL BEARING PLATE INJECTION OPTIONS</p>		
<p>PROJECT NO:</p> <p>SYSTEM</p>		<p>SCALE:</p> <p>NTS</p>		
<p>SHEET NO:</p>		<p>A342</p>		



STEP 1

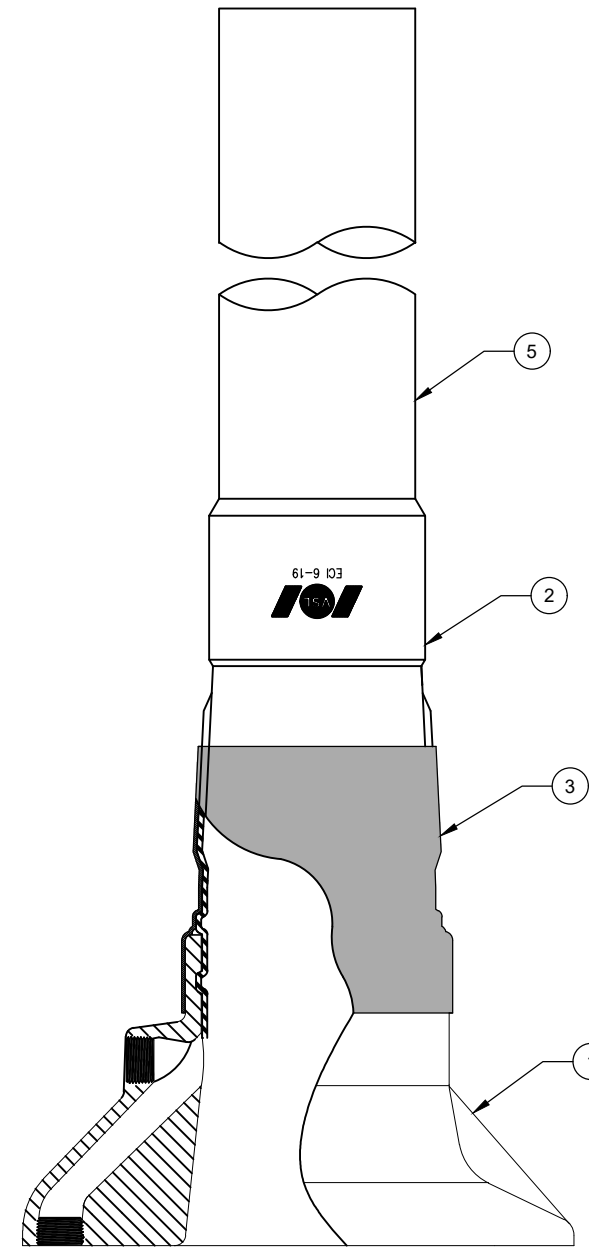
- STEP 1**
- ORIENT BEARING PLATE IN VERTICAL POSITION.
 - INSERT TRUMPET INTO BEARING PLATE, ROTATING UNTIL LOCKED IN PLACE.
 - APPLY BONDUIT AROUND OUTSIDE OF TRUMPET AS SHOWN (1/4" MIN. BEAD).
 - WAIT MIN. 1 HOUR FOR BONDUIT TO SET.

BUTT-WELD HDPE PIPE TO TRUMPET PER SHEET A326 PRIOR TO ASSEMBLY. HDPE PIPE LENGTH TO BE 2'-0" MIN. LENGTH



STEP 2

- STEP 2**
- AFTER BONDUIT HAS SET FOR 1 HOUR, WRAP HEAT SHRINK SLEEVE AROUND BEARING PLATE AND TRUMPET AS SHOWN.



STEP 3

- STEP 3**
- FOLLOW HEAT SHRINK INSTALLATION INSTRUCTIONS (PROVIDED AS A SEPARATE APPENDIX).

ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	1	ECI 6-19 BEARING PLATE W/ 1" NPT PORT GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02BP0038V	C738
2	1	ECI 6-19 TRUMPET	HDPE BLACK PER ASTM D3350	02BP4322	C579
3	1	CANUSA KLNN-115 WS BK/L X 9" HEAT SHRINK SLEEVE	POLYOLEFIN PER TABLE 960 2.2.1.8-1	02DT0514	C763
4	-	BONDUIT	COMMERCIALY AVAILABLE	-	-
5	1	4" DR-17 PIPE	HDPE BLACK PER ASTM D3350	-	C882B

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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE: ECI 6-19 HEAT SHRINK SLEEVE ASSEMBLY

PROJECT NO: SYSTEM

SCALE: NTS

SHEET NO:

A348

structural TECHNOLOGIES

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046
 PHONE: (410) 860-7000
 structuraltechnologies.com

APPROVED FOR CONSTRUCTION

CDL ZX

29JAN2020

BY

CHK

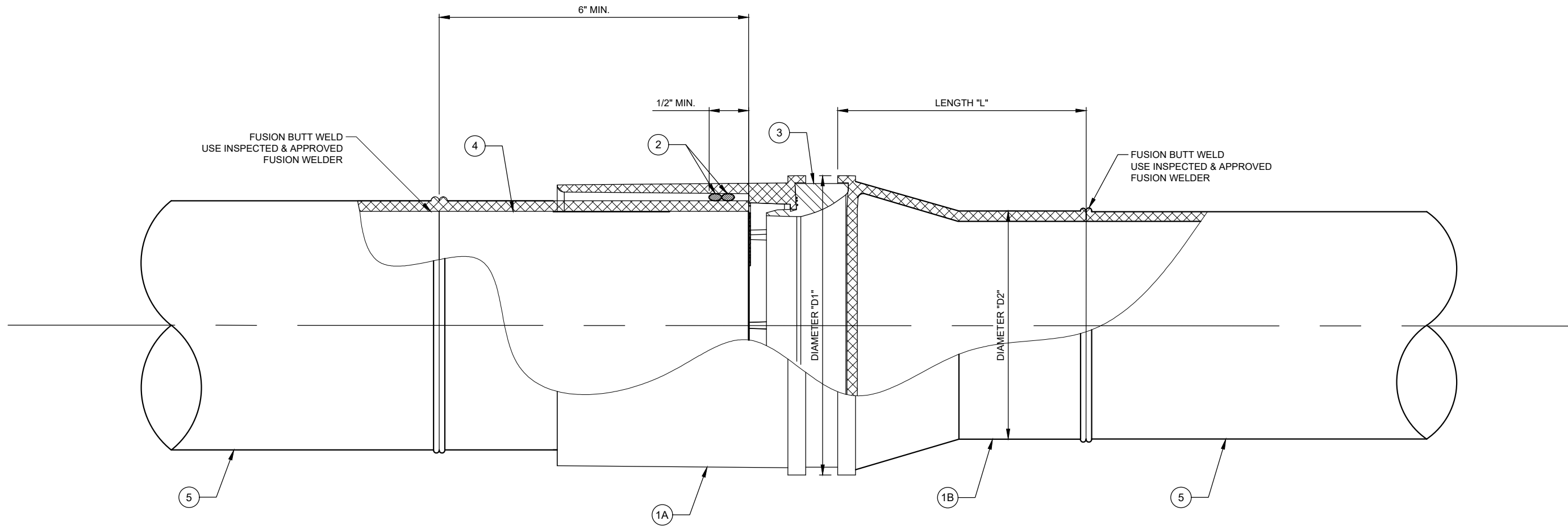
DATE

DESCRIPTION

NO

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ELECTRONIC FILE LOCATION: I:\VSI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



ELEVATION VIEW

4" PIPE SEGMENTAL DUCT COUPLER					
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1A	1	100MM DUCT SC - HUB	WHITE POLYPROPYLENE PER ASTM D4101	02SC10001	C641
1B	1	4" SC BLK - TAPERED HUB	HDPE BLACK PER ASTM D3350	02SC10011	C861
2	2	VSLAB 6-4 TRUMPET O-RING	BUNA-N 70D PER FDOT 960 TABLE 2.2.1.7-1	02VS06406	C793
3	1	100MM DUCT SC - FACE SEAL	SANTOPRENE PER FDOT 960 TABLE 2.2.1.7-2	02SC10003	C640
4	-	4" HDPE PIPE DR-17	HDPE BLACK PER ASTM D3350	-	C882B

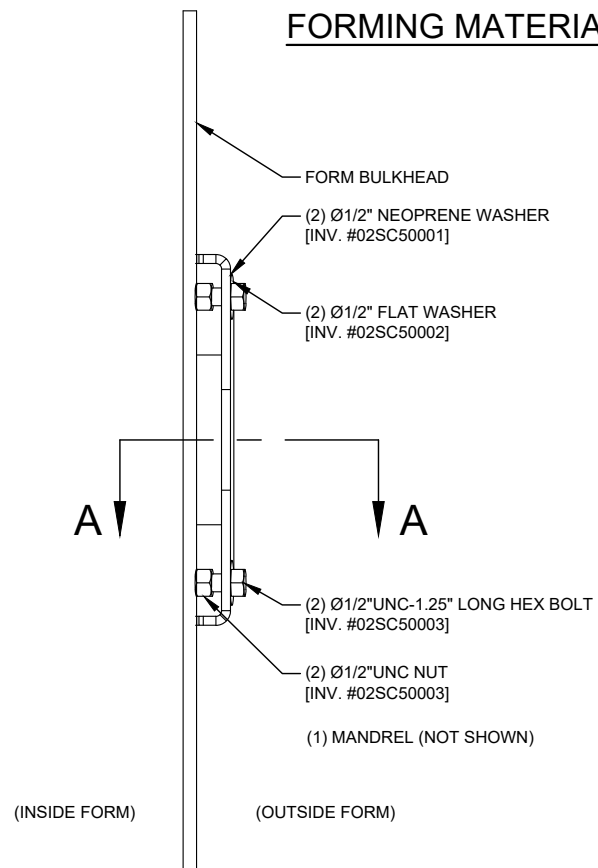
TAPERED HUB SIZE CHART			
DESCRIPTION	LENGTH "L"	DIAMETER "D1"	DIAMETER "D2"
4" SC BLK - TAPERED HUB	3.11"	5.00"	4.26"

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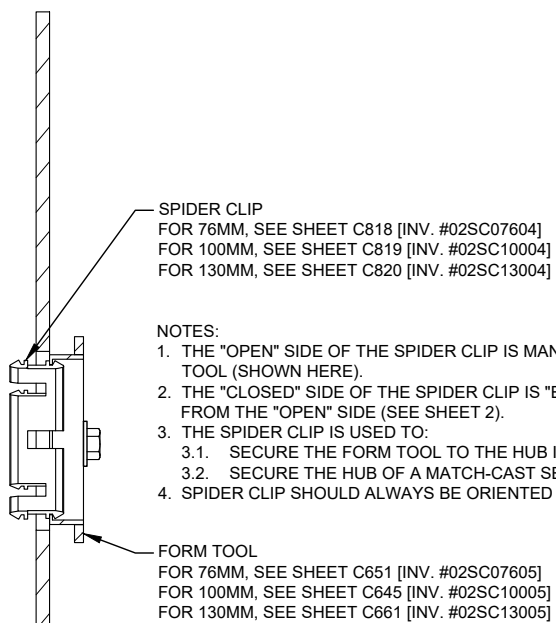
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		NO	BY	DATE
<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWINGS</p> <p>4" PIPE FLEXIBLE FILLER SEGMENTAL COUPLER CONNECTION</p>		DESCRIPTION	BY	CHK
<p>TITLE:</p> <p>4" PIPE FLEXIBLE FILLER SEGMENTAL COUPLER CONNECTION</p>		NO	BY	CHK
<p>PROJECT NO:</p> <p>SYSTEM</p>		NO	BY	CHK
<p>SHEET NO:</p> <p>A414B</p>		NO	BY	CHK

FORMING MATERIALS



FORM PLAN VIEW



NOTES:

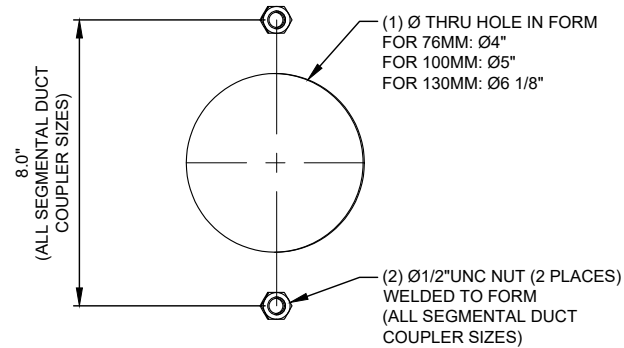
- THE "OPEN" SIDE OF THE SPIDER CLIP IS MANUALLY "SNAPPED" ONTO EITHER THE HUB (SHOWN SHEET 4) OR THE FORM TOOL (SHOWN HERE).
- THE "CLOSED" SIDE OF THE SPIDER CLIP IS "ENGAGED" WHEN THE MANDREL IS INSERTED THROUGH THE SPIDER CLIP FROM THE "OPEN" SIDE (SEE SHEET 2).
- THE SPIDER CLIP IS USED TO:
 - SECURE THE FORM TOOL TO THE HUB IN CASE OF A WET CAST (SEE SHEETS 1-3), AND
 - SECURE THE HUB OF A MATCH-CAST SEGMENT TO THE HUB OF A PRE-CAST SEGMENT (SEE SHEET 4-6).
- SPIDER CLIP SHOULD ALWAYS BE ORIENTED AS SHOWN WITH THE WIDE MANDREL RAMPS VERTICAL TO EACH OTHER.

NOTES:

- PART NUMBERS SHOWN ARE FOR 3/8" THICK FORMWORK ONLY
- ALTERNATE FORM TOOLS MAY BE USED BY CONTRACTOR ONLY IF THEY PERMIT $\pm 6^\circ$ SKEW ANGLE AND IF THEY POSITION THE RECESS FORMER HALF-WAY INSIDE THE FORM BEING CAST.

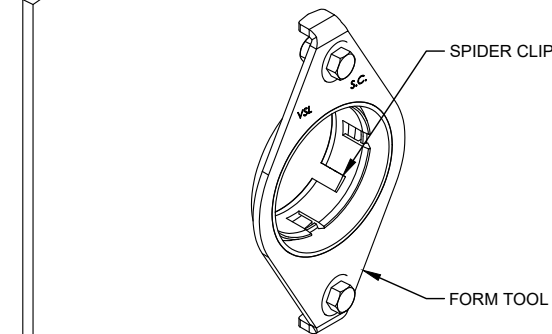
FORM ELEVATION VIEW SECTION A-A

FORMING PREPARATION GUIDE



(OUTSIDE FORM)

(INSIDE FORM) (OUTSIDE FORM)



SPIDER CLIP DETAIL

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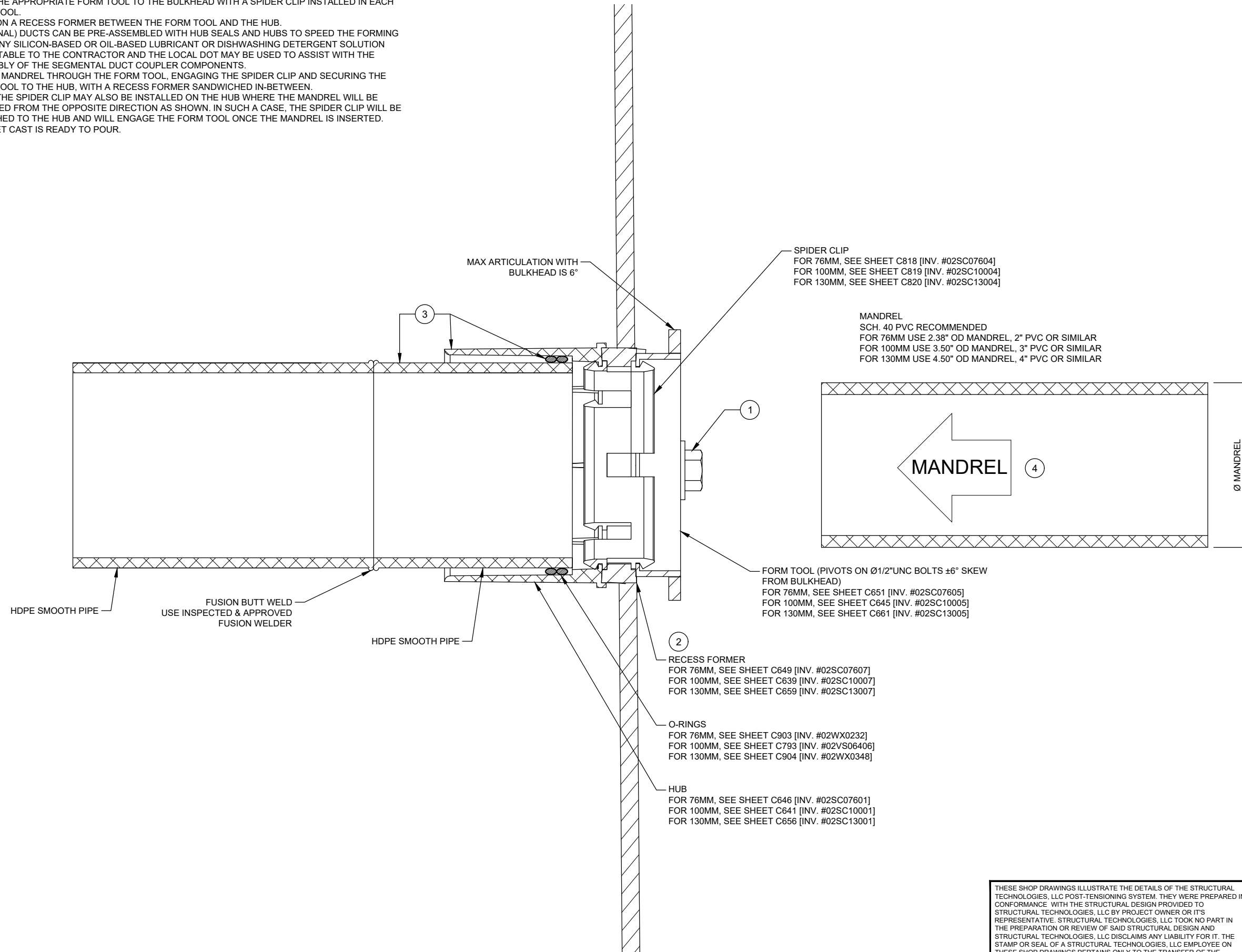
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PROJECT INFORMATION:		DATE	29JAN2020
SYSTEM DRAWING		BY	CHK
SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE		CDL	ZX
APPROVED FOR CONSTRUCTION		DESCRIPTION	
NO		NO	
STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 CORPORATE OFFICE		PHONE: (410) 850-7000 structuraltechnologies.com	
Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL			
PROJECT NO: SYSTEM		SCALE: NTS	
SHEET NO: A437 - 1 of 8			

SEGMENTAL DUCT COUPLER INSTALLATION GUIDE

WET CAST FORM

1. BOLT THE APPROPRIATE FORM TOOL TO THE BULKHEAD WITH A SPIDER CLIP INSTALLED IN EACH FORM TOOL.
2. POSITION A RECESS FORMER BETWEEN THE FORM TOOL AND THE HUB.
3. (OPTIONAL) DUCTS CAN BE PRE-ASSEMBLED WITH HUB SEALS AND HUBS TO SPEED THE FORMING TIME. ANY SILICON-BASED OR OIL-BASED LUBRICANT OR DISHWASHING DETERGENT SOLUTION ACCEPTABLE TO THE CONTRACTOR AND THE LOCAL DOT MAY BE USED TO ASSIST WITH THE ASSEMBLY OF THE SEGMENTAL DUCT COUPLER COMPONENTS.
4. INSERT MANDREL THROUGH THE FORM TOOL, ENGAGING THE SPIDER CLIP AND SECURING THE FORM TOOL TO THE HUB, WITH A RECESS FORMER SANDWICHED IN-BETWEEN.
5. NOTE: THE SPIDER CLIP MAY ALSO BE INSTALLED ON THE HUB WHERE THE MANDREL WILL BE INSERTED FROM THE OPPOSITE DIRECTION AS SHOWN. IN SUCH A CASE, THE SPIDER CLIP WILL BE ATTACHED TO THE HUB AND WILL ENGAGE THE FORM TOOL ONCE THE MANDREL IS INSERTED.
6. THE WET CAST IS READY TO POUR.



SPIDER CLIP
 FOR 76MM, SEE SHEET C818 [INV. #02SC07604]
 FOR 100MM, SEE SHEET C819 [INV. #02SC10004]
 FOR 130MM, SEE SHEET C820 [INV. #02SC13004]

MANDREL
 SCH. 40 PVC RECOMMENDED
 FOR 76MM USE 2.38" OD MANDREL, 2" PVC OR SIMILAR
 FOR 100MM USE 3.50" OD MANDREL, 3" PVC OR SIMILAR
 FOR 130MM USE 4.50" OD MANDREL, 4" PVC OR SIMILAR

FORM TOOL (PIVOTS ON Ø1/2" UNC BOLTS ±6° SKEW FROM BULKHEAD)
 FOR 76MM, SEE SHEET C651 [INV. #02SC07605]
 FOR 100MM, SEE SHEET C645 [INV. #02SC10005]
 FOR 130MM, SEE SHEET C661 [INV. #02SC13005]

RECESS FORMER
 FOR 76MM, SEE SHEET C649 [INV. #02SC07607]
 FOR 100MM, SEE SHEET C639 [INV. #02SC10007]
 FOR 130MM, SEE SHEET C659 [INV. #02SC13007]

O-RINGS
 FOR 76MM, SEE SHEET C903 [INV. #02WX0232]
 FOR 100MM, SEE SHEET C793 [INV. #02VS06406]
 FOR 130MM, SEE SHEET C904 [INV. #02WX0348]

HUB
 FOR 76MM, SEE SHEET C646 [INV. #02SC07601]
 FOR 100MM, SEE SHEET C641 [INV. #02SC10001]
 FOR 130MM, SEE SHEET C656 [INV. #02SC13001]

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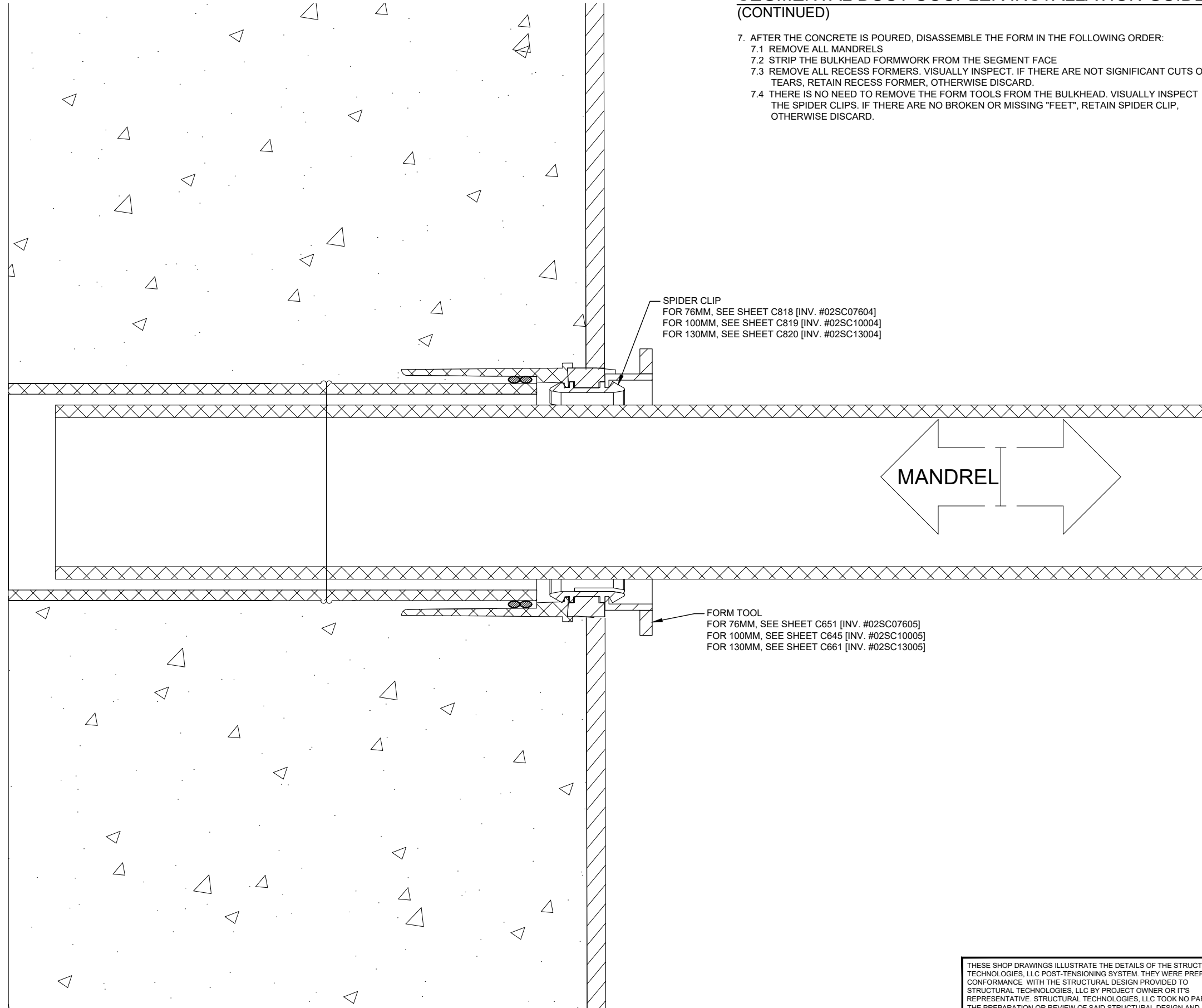
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PROJECT INFORMATION:		DATE	29JAN2020
SYSTEM DRAWING		CHK	ZX
SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE		BY	CDL
TITLE:		APPROVED FOR CONSTRUCTION	
PROJECT NO: SYSTEM		DESCRIPTION	
SHEET NO: A437 - 2 of 8		NO	

structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC
 CORPORATE OFFICE
 10150 OLD COLUMBIA RD
 COLUMBIA, MD 21046
 PHONE: (410) 850-7000
 structuraltechnologies.com

ELECTRONIC FILE LOCATION: I:\SVS\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler

WET CAST FORM

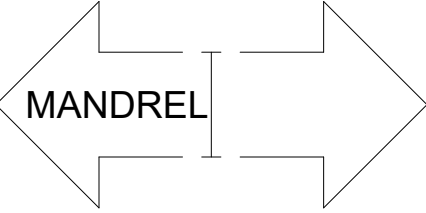


SEGMENTAL DUCT COUPLER INSTALLATION GUIDE
(CONTINUED)

7. AFTER THE CONCRETE IS POURED, DISASSEMBLE THE FORM IN THE FOLLOWING ORDER:
 - 7.1 REMOVE ALL MANDRELS
 - 7.2 STRIP THE BULKHEAD FORMWORK FROM THE SEGMENT FACE
 - 7.3 REMOVE ALL RECESS FORMERS. VISUALLY INSPECT. IF THERE ARE NOT SIGNIFICANT CUTS OR TEARS, RETAIN RECESS FORMER, OTHERWISE DISCARD.
 - 7.4 THERE IS NO NEED TO REMOVE THE FORM TOOLS FROM THE BULKHEAD. VISUALLY INSPECT THE SPIDER CLIPS. IF THERE ARE NO BROKEN OR MISSING "FEET", RETAIN SPIDER CLIP, OTHERWISE DISCARD.

SPIDER CLIP
FOR 76MM, SEE SHEET C818 [INV. #02SC07604]
FOR 100MM, SEE SHEET C819 [INV. #02SC10004]
FOR 130MM, SEE SHEET C820 [INV. #02SC13004]

FORM TOOL
FOR 76MM, SEE SHEET C651 [INV. #02SC07605]
FOR 100MM, SEE SHEET C645 [INV. #02SC10005]
FOR 130MM, SEE SHEET C661 [INV. #02SC13005]



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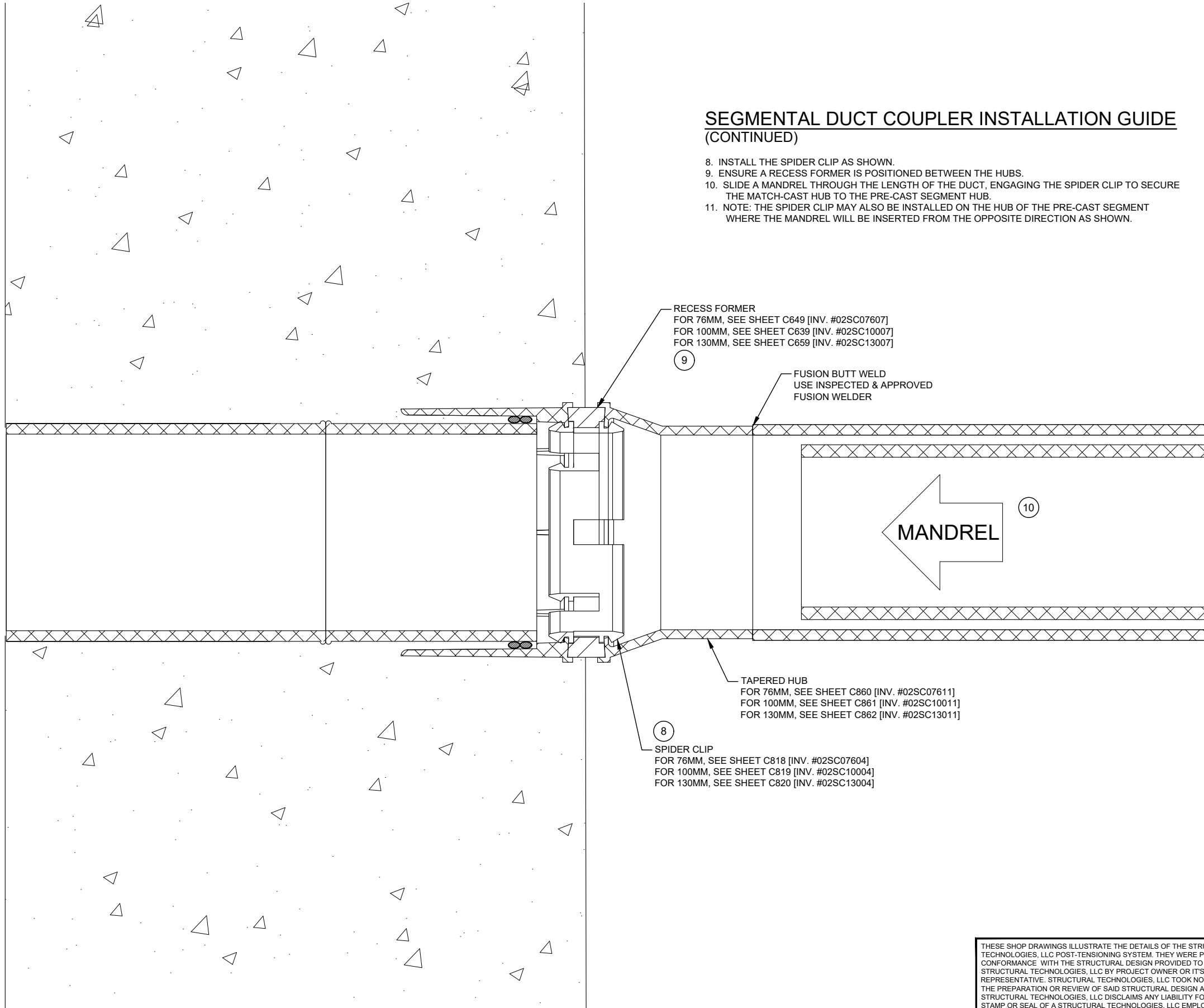
PROJECT INFORMATION:		DATE	29JAN2020
SYSTEM DRAWING	APPROVED FOR CONSTRUCTION	BY	CHK
SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE	DESCRIPTION		
	NO		
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PROJECT NO:	SYSTEM	SCALE:	NTS
SHEET NO:	A437 - 3 of 8		

PRE-CAST SEGMENT

MATCH-CAST FORM

SEGMENTAL DUCT COUPLER INSTALLATION GUIDE (CONTINUED)

8. INSTALL THE SPIDER CLIP AS SHOWN.
9. ENSURE A RECESS FORMER IS POSITIONED BETWEEN THE HUBS.
10. SLIDE A MANDREL THROUGH THE LENGTH OF THE DUCT, ENGAGING THE SPIDER CLIP TO SECURE THE MATCH-CAST HUB TO THE PRE-CAST SEGMENT HUB.
11. NOTE: THE SPIDER CLIP MAY ALSO BE INSTALLED ON THE HUB OF THE PRE-CAST SEGMENT WHERE THE MANDREL WILL BE INSERTED FROM THE OPPOSITE DIRECTION AS SHOWN.



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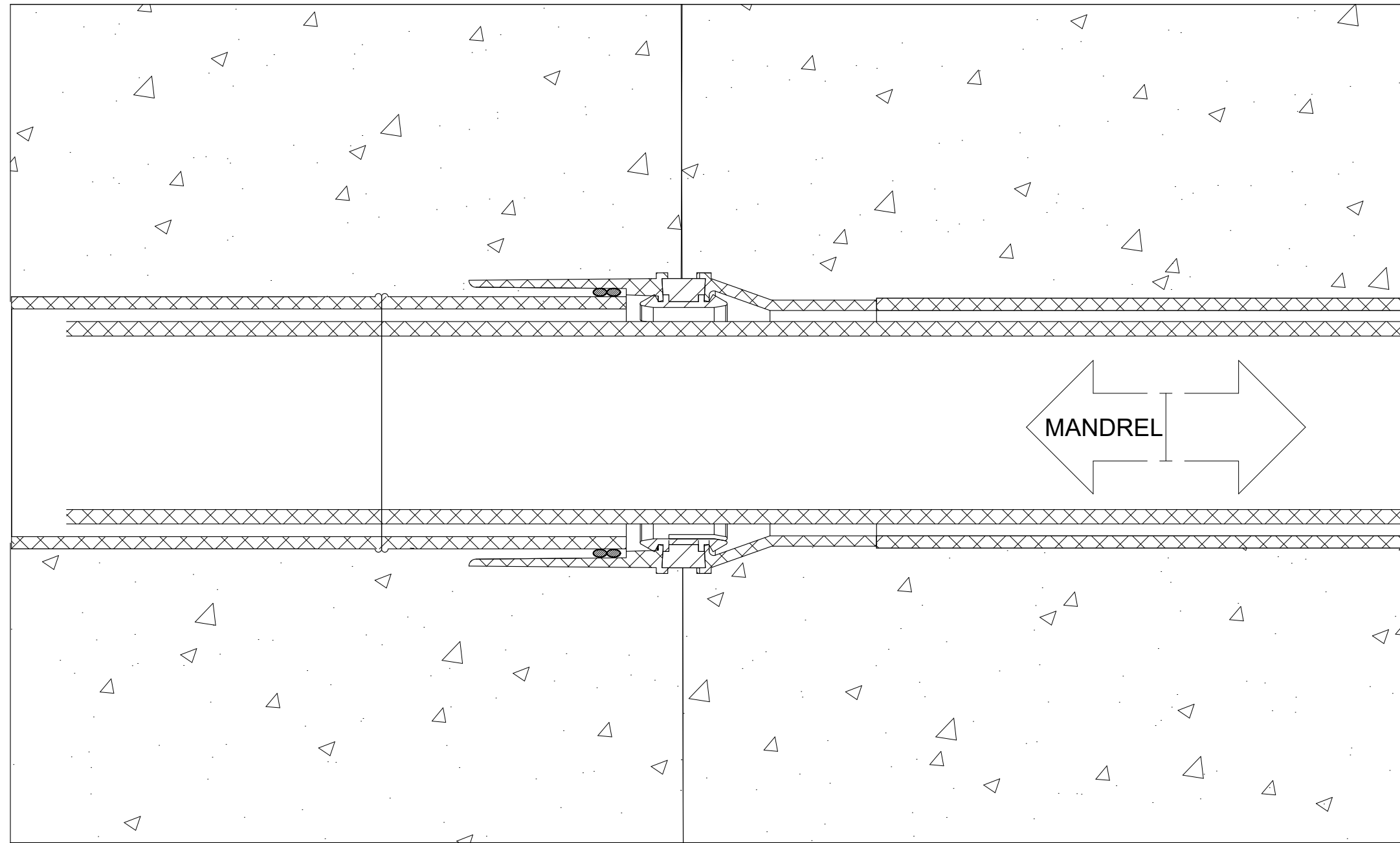
PROJECT INFORMATION:		APPROVED FOR CONSTRUCTION	BY	CDL ZK	CHK	DATE	29JAN2020
SYSTEM DRAWING		NO					
SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE							
PROJECT NO:	SYSTEM	SCALE:		NTS			
SHEET NO:	A437 - 4 of 8						

structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUTURAL TECHNOLOGIES, LLC
 CORPORATE OFFICE
 10150 OLD COLUMBIA RD
 COLUMBIA, MD 21046
 PHONE: (410) 850-7000
 structuraltechnologies.com

ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler

PRE-CAST SEGMENT

MATCH-CAST FORM



SEGMENTAL DUCT COUPLER INSTALLATION GUIDE
(CONTINUED)

- ONCE THE MANDREL IS INSERTED, THE SPIDER CLIP HAS LOCKED THE TWO HUBS TOGETHER, AND THE MATCH-CAST SEGMENT CAN BE POURED.

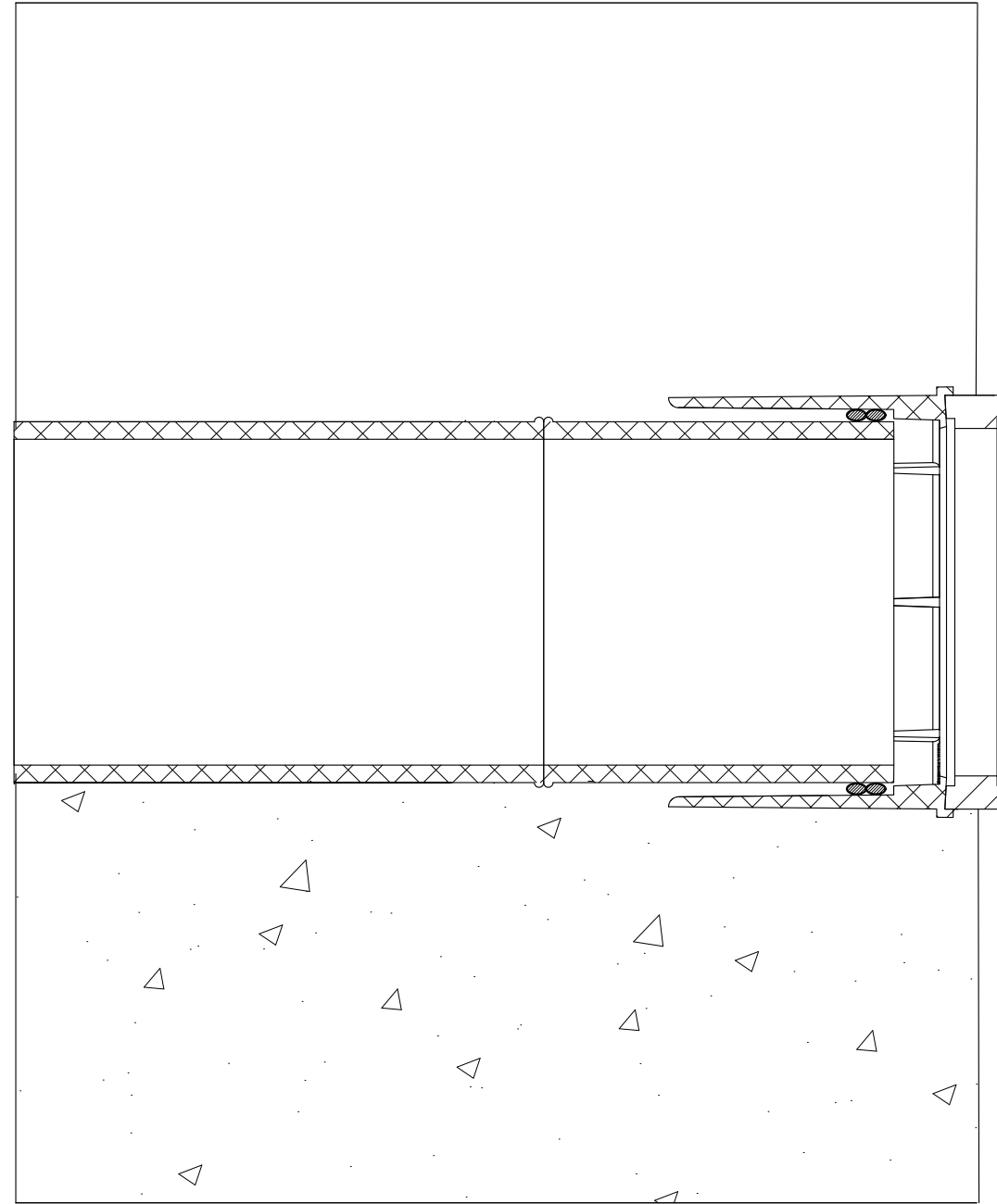
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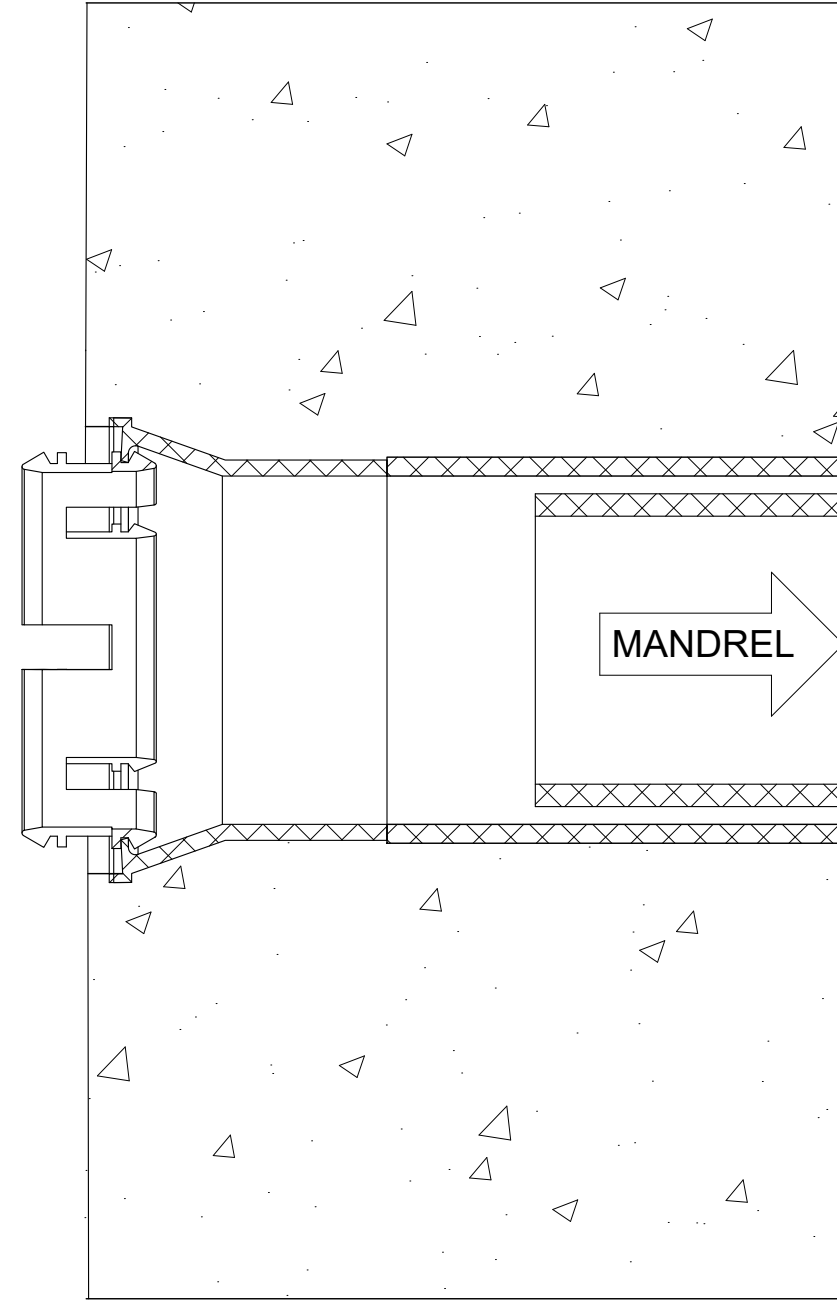
PROJECT INFORMATION:		CDL	ZX	29JAN2020
SYSTEM DRAWING		APPROVED FOR CONSTRUCTION	BY	CHK
TITLE:		NO	DESCRIPTION	DATE
SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE				
PROJECT NO:	SYSTEM	SCALE:	NTS	
SHEET NO:		A437 - 5 of 8		
structural TECHNOLOGIES Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUTURAL TECHNOLOGIES, LLC CORPORATE OFFICE 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuraltechnologies.com				

ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler

PRE-CAST SEGMENT



MATCH-CAST FORM



NOTE: FAILURE TO REMOVE MANDREL RESULTS IN SEVERE SPALLING OF BOTTOM SLABS

SEGMENTAL DUCT COUPLER INSTALLATION GUIDE (CONTINUED)

- 13. TO SEPARATE THE MATCH-CAST SEGMENT FROM THE PRE-CAST SEGMENT, DISASSEMBLE THE FORM IN THE FOLLOWING STEPS:
 - 13.1 REMOVE ALL MANDRELS
 - 13.2 SEPARATE SEGMENTS
 - 13.3 REMOVE ALL SPIDER CLIPS. VISUALLY INSPECT. IF THERE ARE NOT SIGNIFICANT CUTS OR TEARS, RETAIN RECESS FORMER, OTHERWISE DISCARD. IF THERE ARE NO BROKEN OR MISSING "FEET", RETAIN SPIDER CLIP, OTHERWISE DISCARD.
 - 13.4 NOTE: THERE IS NO NEED TO REMOVE THE FORM TOOLS FROM THE BULKHEAD. VISUALLY INSPECT THE SPIDER CLIPS AS NOTED ABOVE.
- 14. INSTALL PROTECTIVE CAPS OVER DUCT OPENINGS
 - FOR 76MM, SEE SHEET C663 [INV. #02SC07606]
 - FOR 100MM, SEE SHEET C662 [INV. #02SC10006]
 - FOR 130MM, SEE SHEET C664 [INV. #02SC13006]

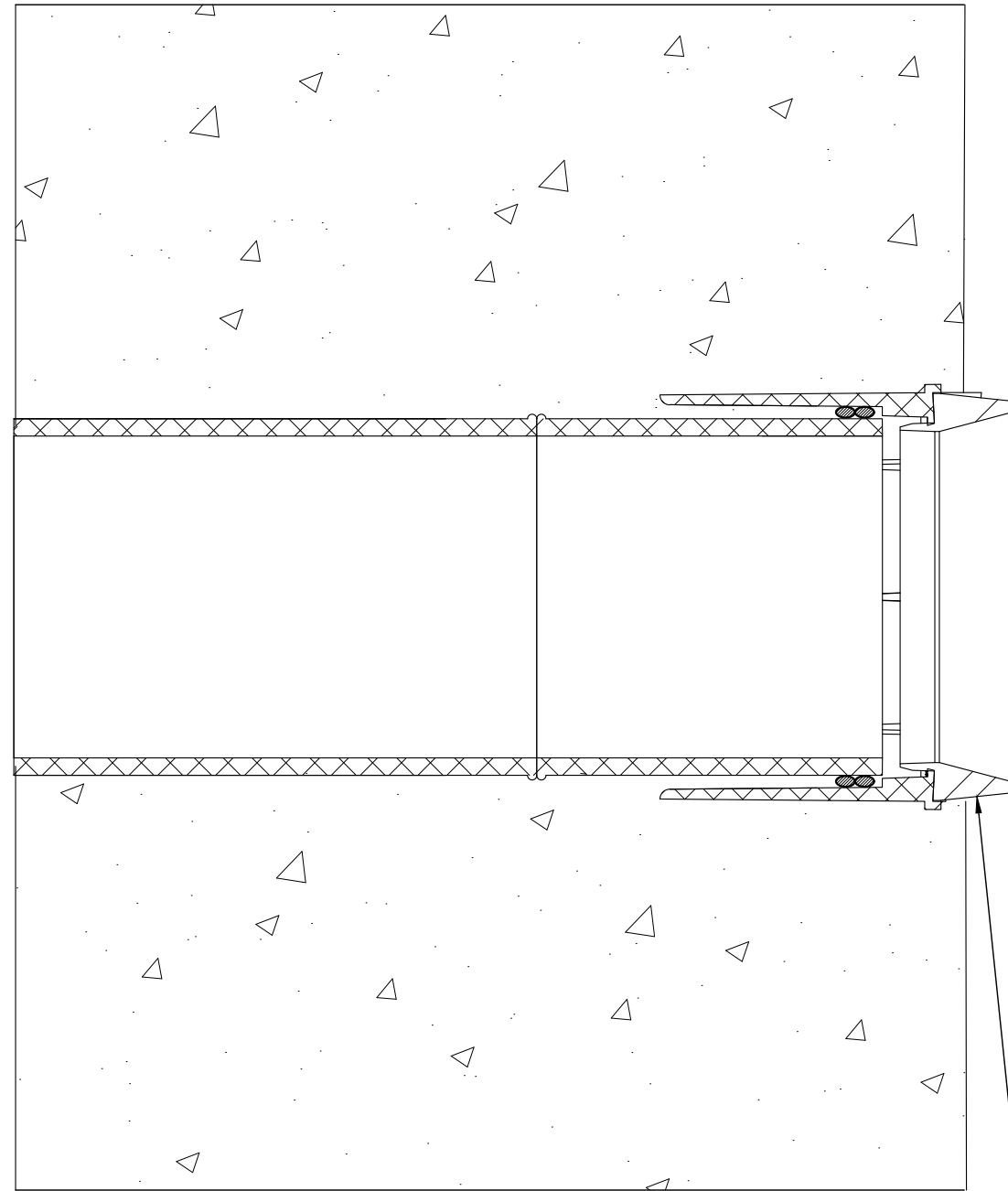
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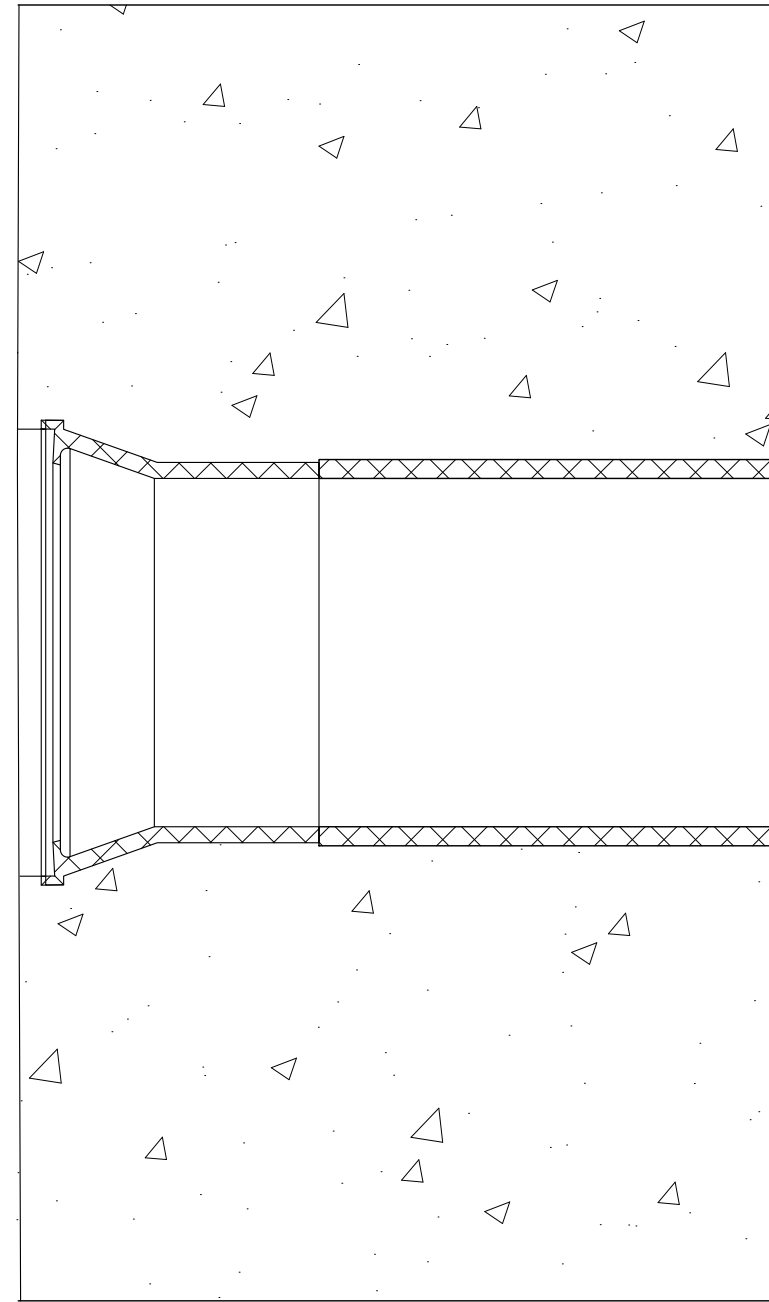
PROJECT INFORMATION:		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
SYSTEM DRAWING		DESCRIPTION	BY	CHK
SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE		NO		
STRUCTURAL TECHNOLOGIES Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC CORPORATE OFFICE		PHONE: (410) 850-7000 structuraltechnologies.com		
PROJECT NO:	SYSTEM	SCALE:	NTS	
SHEET NO:	A437 - 6 of 8			

ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler

PRE-CAST SEGMENT 1



PRE-CAST SEGMENT 2



SEGMENTAL DUCT COUPLER INSTALLATION GUIDE (CONTINUED)

ONCE THE SEGMENTS HAVE BEEN TRANSPORTED AND ARE READY FOR ERECTION:

15. REMOVE PROTECTIVE CAPS FROM DUCT OPENINGS.
16. INSTALL FACE SEALS INTO ONE SEGMENT FACE ONLY.
17. APPLY SEGMENTAL EPOXY TO SEGMENT FACES AS REQUIRED. (DO NOT APPLY EPOXY TO FACE SEAL - STEPS 17 & 18 MAY BE REVERSED AT THE DISCRETION OF THE CONTRACTOR.)
18. BRING SEGMENTS TOGETHER AND SECURE WITH PT BAR.

FACE SEAL
 FOR 76MM, SEE SHEET C648 [INV. #02SC07603]
 FOR 100MM, SEE SHEET C640 [INV. #02SC10003]
 FOR 130MM, SEE SHEET C658 [INV. #02SC13003]

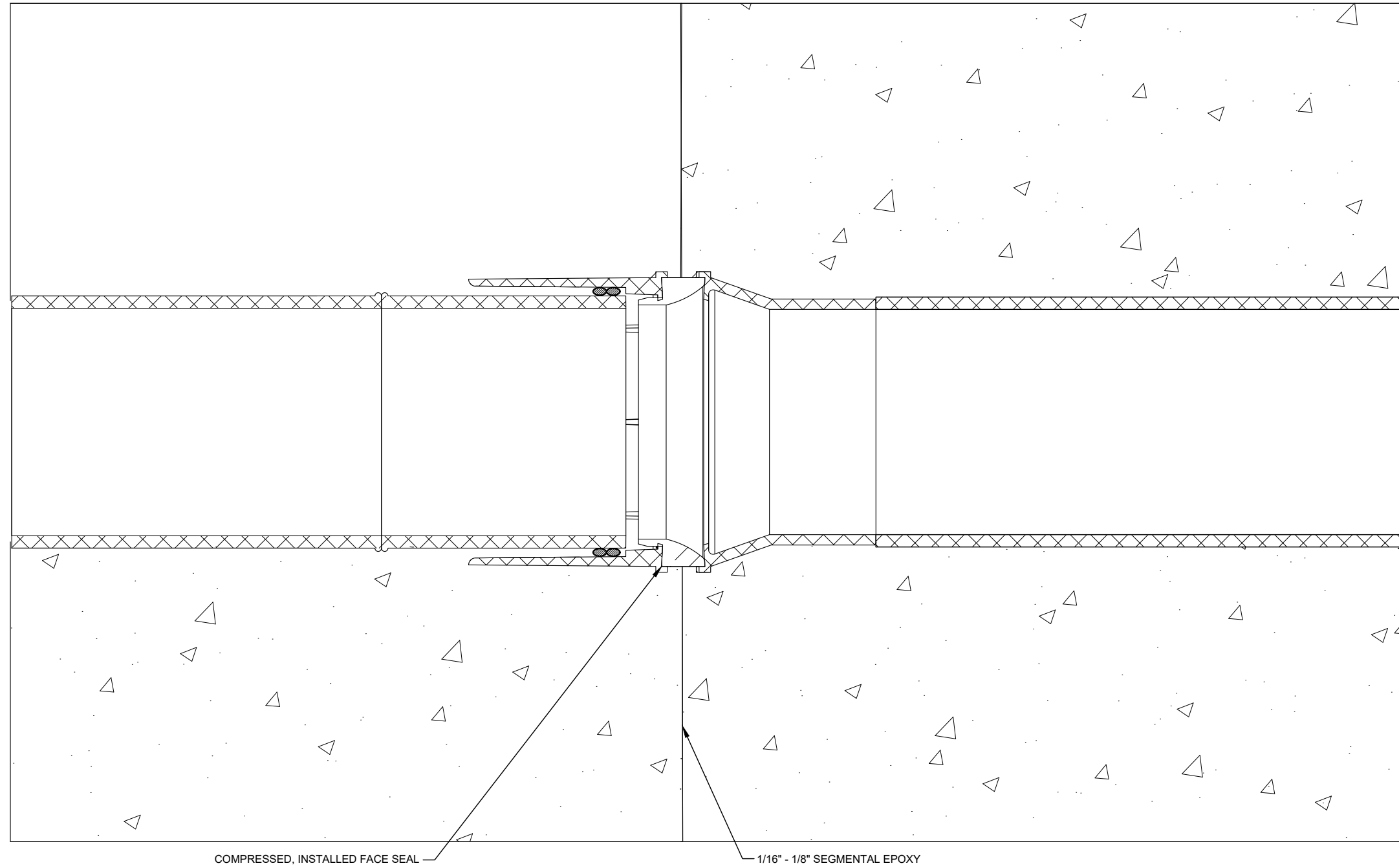
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PROJECT INFORMATION:		CDL	ZX	29JAN2020
		BY	CHK	DATE
APPROVED FOR CONSTRUCTION		NO		
DESCRIPTION		NO		
<p>STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuraltechnologies.com</p>				
SYSTEM DRAWING		SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE		
PROJECT NO:	SYSTEM	SCALE:	NTS	
SHEET NO:		A437 - 7 of 8		

ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler

PRE-CAST SEGMENT 1 FINAL ELEVATION SECTION - VIEW OF SEGMENTAL DUCT COUPLER JOINT PRE-CAST SEGMENT 2

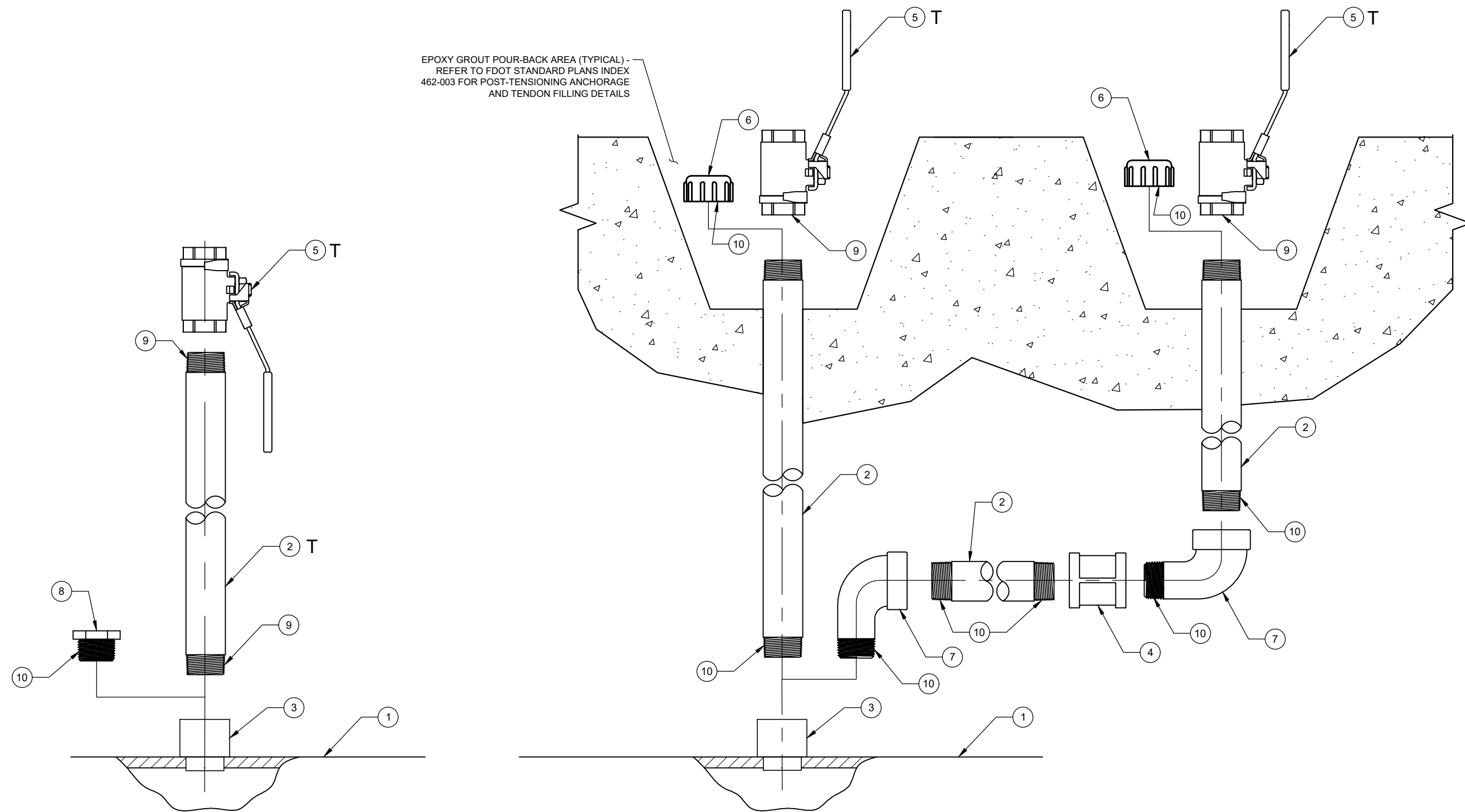


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PROJECT INFORMATION:	<p>PROJECT NO: SYSTEM</p> <p>SHEET NO: A437 - 8 of 8</p>
TITLE:	<p>SEGMENTAL DUCT COUPLER - FLEX FILLER INSTALLATION GUIDE</p>
SCALE:	<p>NTS</p>
APPROVED FOR CONSTRUCTION	<p>NO</p>
DESCRIPTION	<p>NO</p>
BY	<p>CDL ZX</p>
CHK	<p>BY</p>
DATE	<p>29JAN2020</p>

ELECTRONIC FILE LOCATION: I:\VSI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



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

EXTERNAL OPTION

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

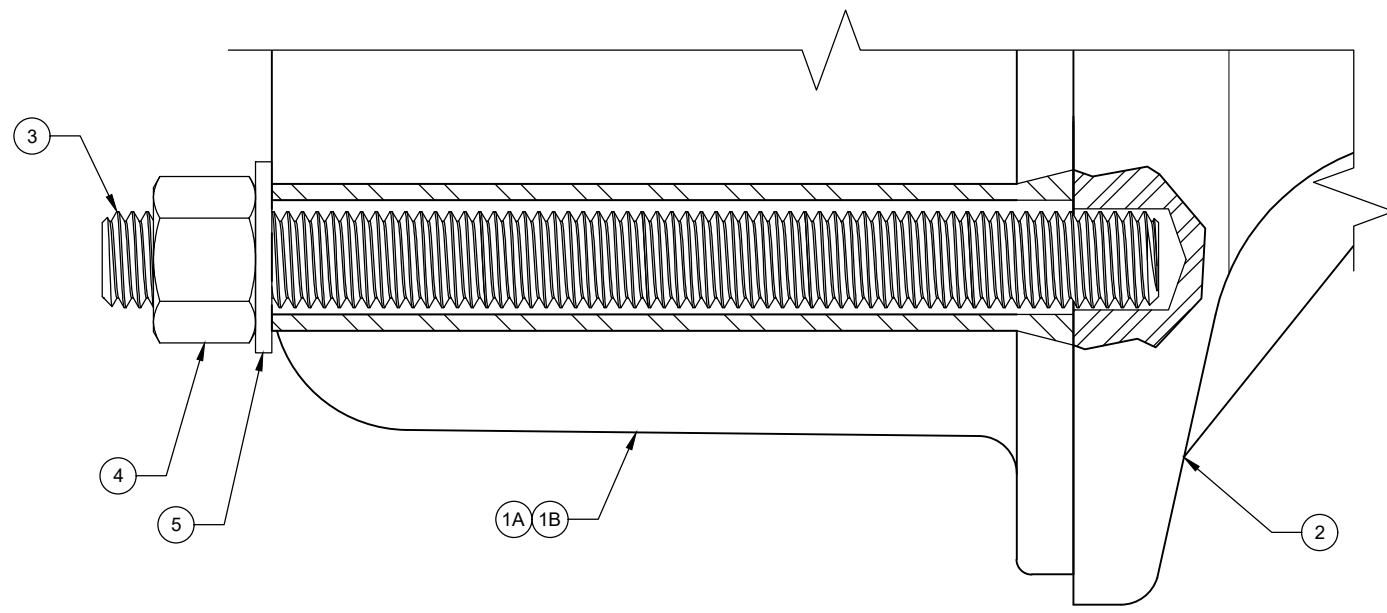
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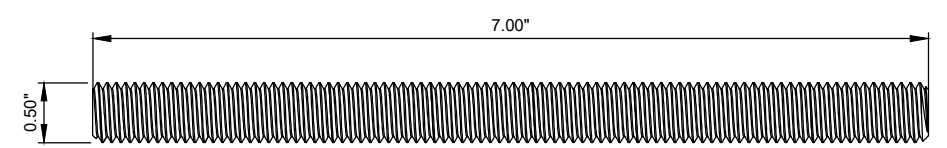
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1	-	DR-17 PIPE (SIZE VARIES)	HDPE BLACK PER ASTM D3350	-	C882A-C
2	1	3/4" NPT STEEL NIPPLE	SCH 40 STEEL	-	C722
3	1	3/4" FNPT SMOOTH GROUT PORT	HDPE YELLOW PER ASTM D3350	02DT0253	C743
4	1	3/4" NPT F/F COUPLER	SCH 40 STEEL	02DT01952	C728
5	1	STEEL 1/4 TURN BALL VALVE W/ 3/4" FNPT	SCH 40 STEEL	02DT01925	C745
6	1	RIBBED CAP 3/4" FNPT	BLACK POLYPROPYLENE PER ASTM D4101	02DT01912	C701
7	2	3/4" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01954	C750
8	1	3/4" NPT PE PLUG	HDPE BLACK PER ASTM D3350	02DT01913	C787
9	-	SILICONE GREASE	-	-	-
10	-	BONDUIT	-	-	-

<p>structural TECHNOLOGIES</p> <p style="font-size: small;">Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD CORPORATE OFFICE COLUMBIA, MD 21046</p> <p style="font-size: x-small;">PHONE: (410) 850-7000 structuraltechnologies.com</p>	<p>PROJECT INFORMATION:</p> <p>PROJECT NO: SYSTEM</p> <p>SHEET NO: A439</p> <p>TITLE: FLEXIBLE FILLER INJECTION/VENT CONFIGURATION</p> <p>SCALE: NTS</p>
<p>APPROVED FOR CONSTRUCTION</p>	<p>DESCRIPTION</p>
<p>NO</p>	<p>BY</p>
<p>CDL ZX</p>	<p>CHK</p>
<p>29JAN2020</p>	<p>DATE</p>

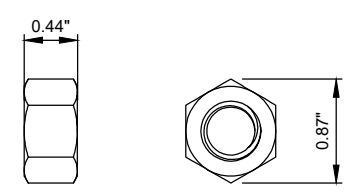
ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



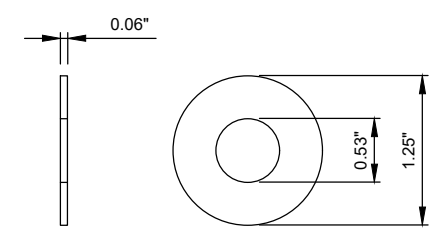
CAP TO BEARING PLATE BOLTED ASSEMBLY



③ 1/2"-13 THREADED ROD



④ 1/2"-13 NUT



⑤ 1/2" WASHER

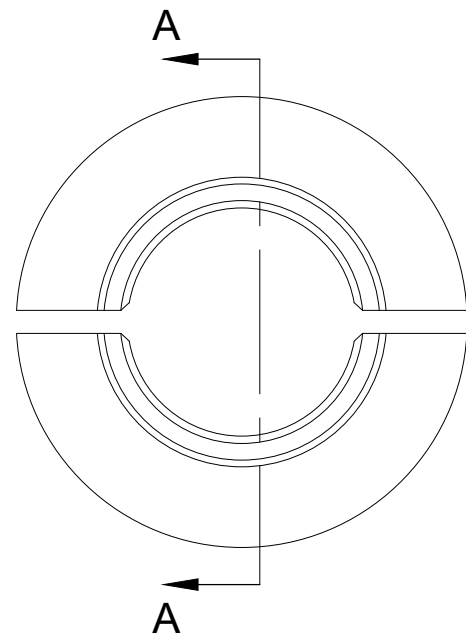
ITEM	QTY	DESCRIPTION	MATERIAL	INVENTORY #	DWG #
1A	1	ECI 6-19 ANCHORAGE CAP W/ 1/4" NPT HORIZONTAL PORT	ABS PER ASTM D4673	02GC61902	C549
1B	1	ECI 6-19 ANCHORAGE CAP W/ 1/4" NPT VERTICAL PORT	ABS PER ASTM D4673	02GC61903	C740
2	1	ECI 6-19 BEARING PLATE W/ 1" NTP PORT GALVANIZED PER ASTM A123	IRON GR80-55-06 PER ASTM A536	02BP6038V	C738
3	1 SET	1/2"-13 THREADED ROD X 7"	(316L) STAINLESS PER ASTM F593	02WX5033D	A441
4	1 SET	1/2"-13 NUT	(316L) STAINLESS PER ASTM A240	02WX5033D	A441
5	1 SET	1/2" WASHER	(316L) STAINLESS PER ASTM A240	02WX5033D	A441

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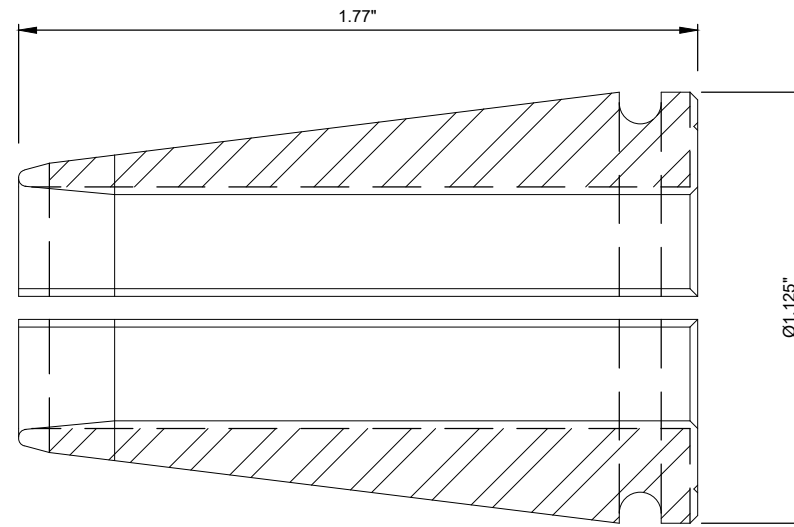
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<p>structural TECHNOLOGIES</p> <p>Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL</p> <p>PHONE: (410) 850-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
		NO	BY	CHK
<p>PROJECT INFORMATION:</p> <p>SYSTEM DRAWING</p> <p>ECI 6-19 BOLT ASSEMBLY</p>		DESCRIPTION	BY	CHK
<p>TITLE:</p> <p>SYSTEM</p>		DATE	CDL ZX	29JAN2020
<p>PROJECT NO:</p> <p>SYSTEM</p>		SCALE: <p>NTS</p>	BY	CHK
<p>SHEET NO:</p> <p>A441</p>		DESCRIPTION	BY	CHK

ELECTRONIC FILE LOCATION: I:\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Strand



**0.6" DIA. MULTIWEDGES
TYPE 1.6G**



SECTION A-A

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DESCRIPTION	MATERIAL	INVENTORY #
0.6" MULTIWEDGE TYPE 1.6G	AISI 11-L-17/12L14 PER ASTM A108, PRODUCED IN STRICT ACCORDANCE WITH VSL MS 3.1.006, CASE HARDENED	02WG0008

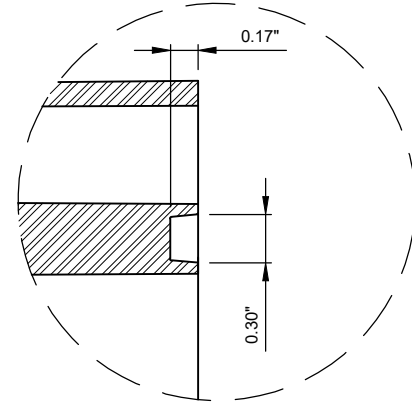
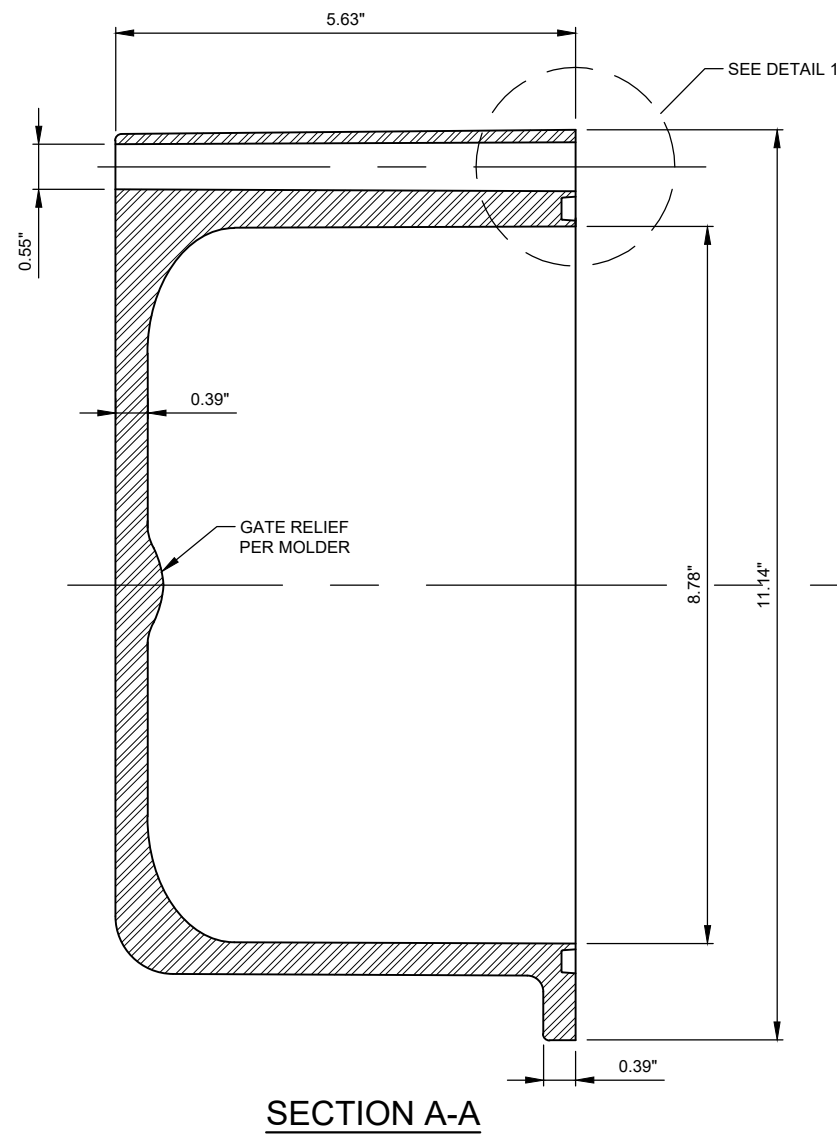
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
TITLE:	0.6" MULTIWEDGE TYPE 1.6G
SHEET NO:	C218

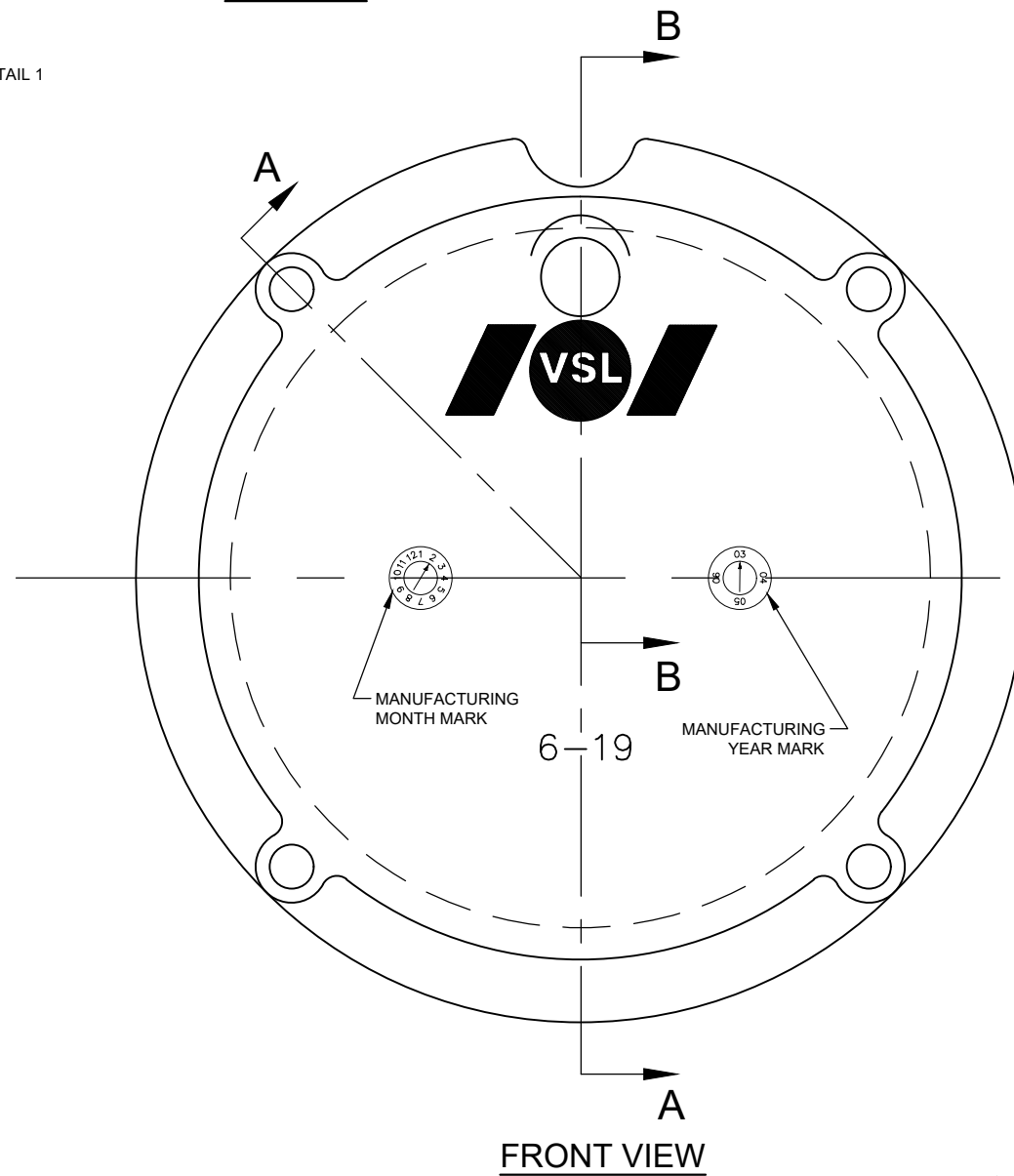
structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
 structuraltechnologies.com

NO	APPROVED FOR CONSTRUCTION	BY	CDL ZX	DATE	29JAN2020
	DESCRIPTION				

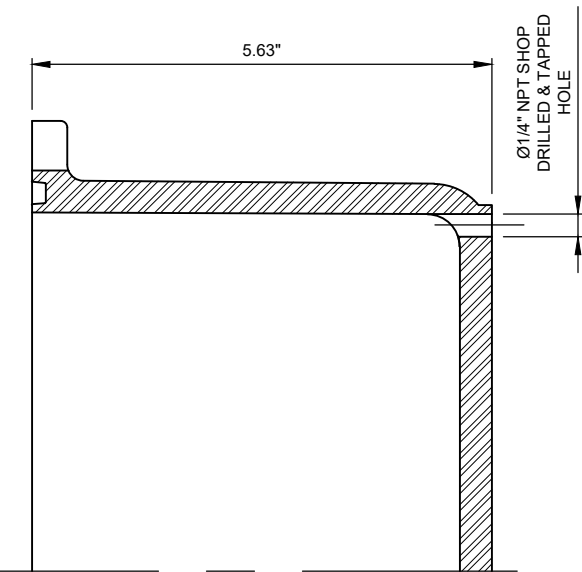
ELECTRONIC FILE LOCATION: I:\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



DETAIL 1



FRONT VIEW



SECTION B-B

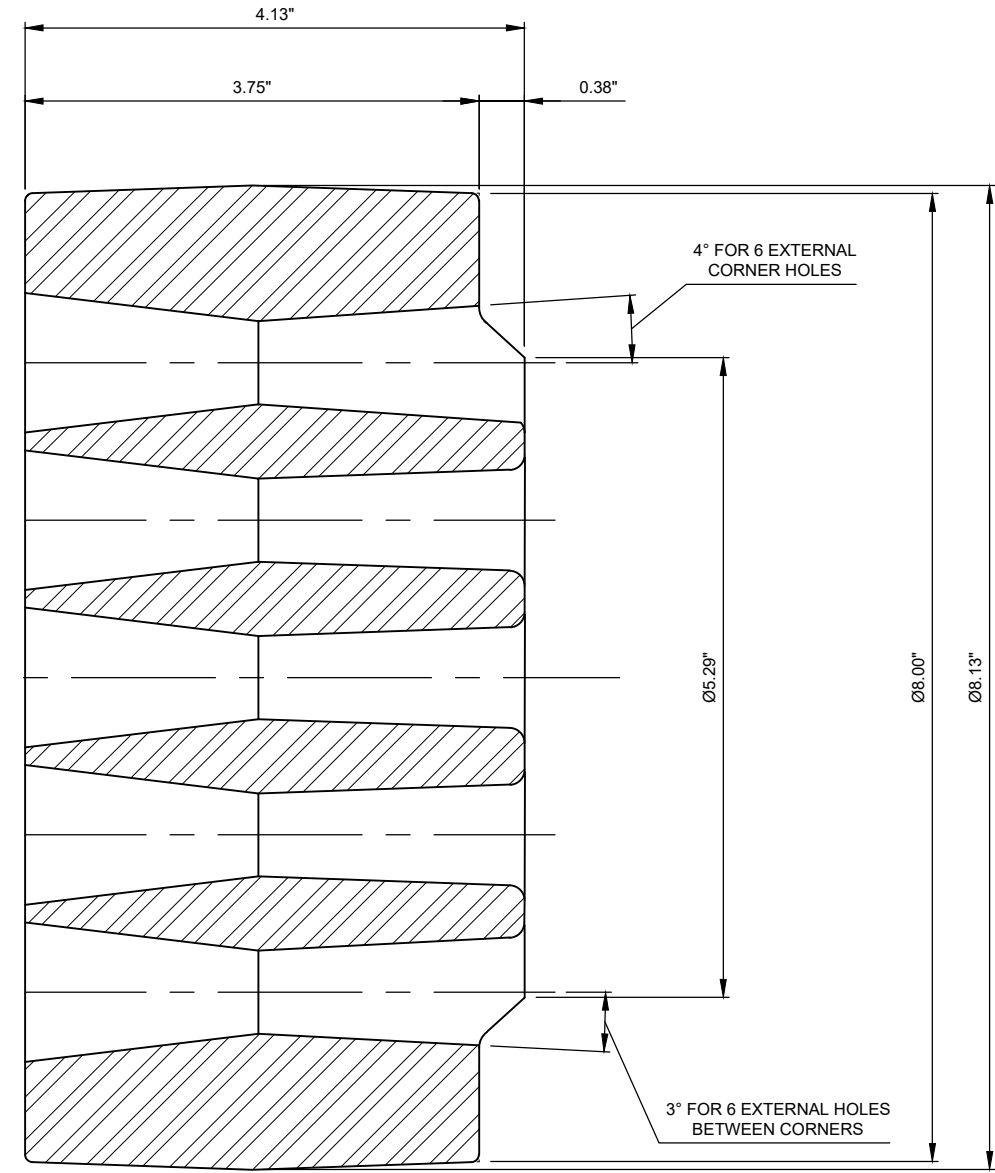
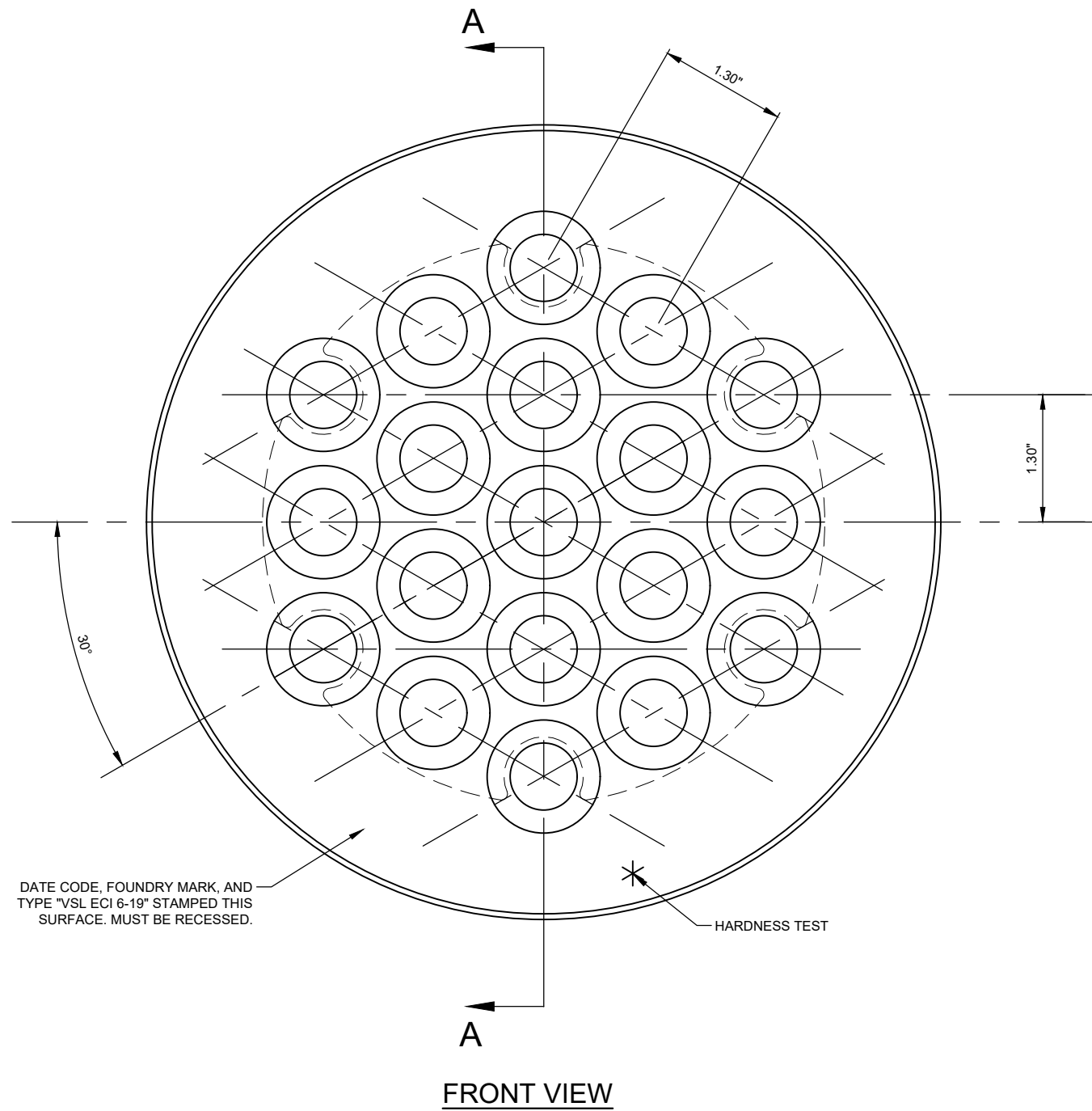
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DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-19 ANCHORAGE CAP W/ 1/4" HORIZONTAL PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC61902

<p>Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC CORPORATE OFFICE</p>		APPROVED FOR CONSTRUCTION CDL ZX 29JAN2020	
		NO	DESCRIPTION
PROJECT INFORMATION: SYSTEM DRAWING		TITLE: ECI 6-19 ANCHORAGE CAP W/ 1/4" NPT HORIZONTAL PORT	
PROJECT NO: SYSTEM		SCALE: NTS	
SHEET NO: C549		DATE CHK BY DATE	

ELECTRONIC FILE LOCATION: I:\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



SECTION A-A

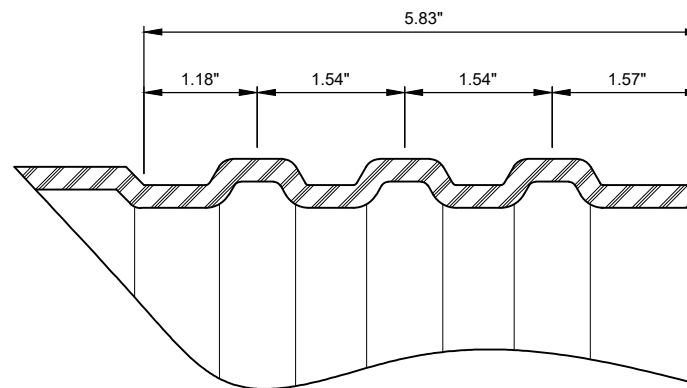
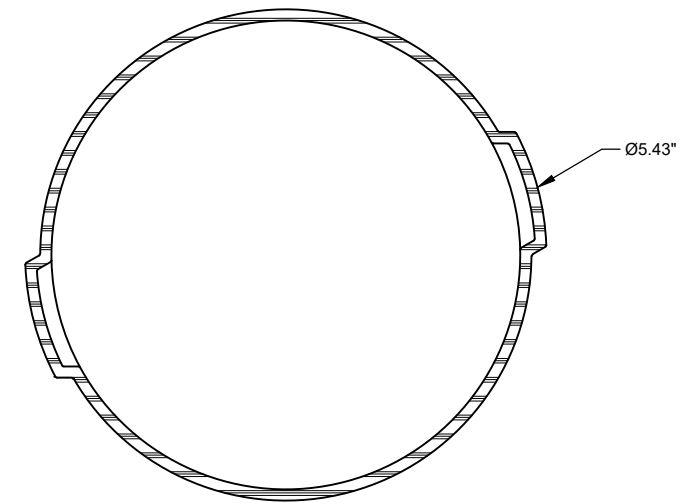
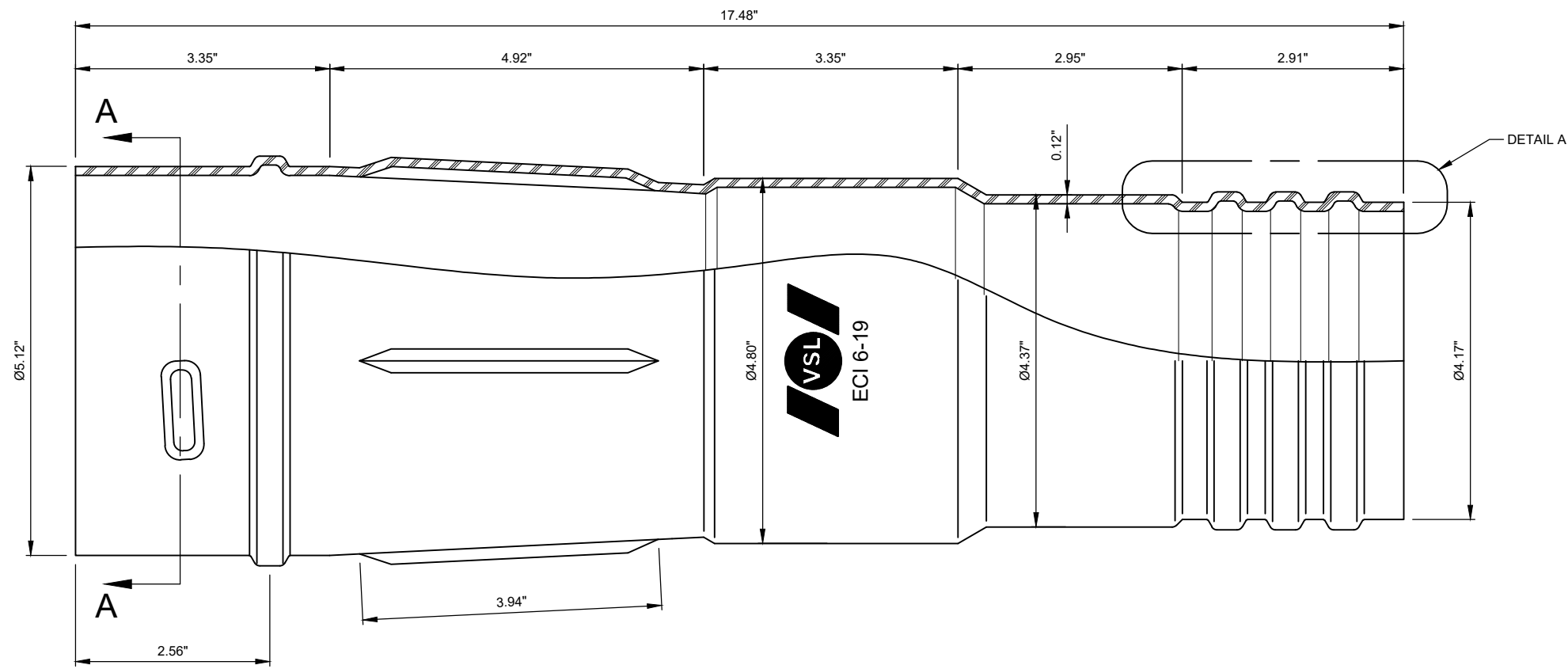
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DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-19 ANCHOR HEAD	IRON GR 80-55-06 PER ASTM A536	02AH0038

<p>structural TECHNOLOGIES Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
		DESCRIPTION	BY	CHK
PROJECT INFORMATION:	SYSTEM DRAWING	NO		
TITLE:	ECI 6-19 ANCHOR HEAD	NO		
PROJECT NO:	SYSTEM	SCALE:	NTS	
SHEET NO:	C557			

ELECTRONIC FILE LOCATION: I:\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



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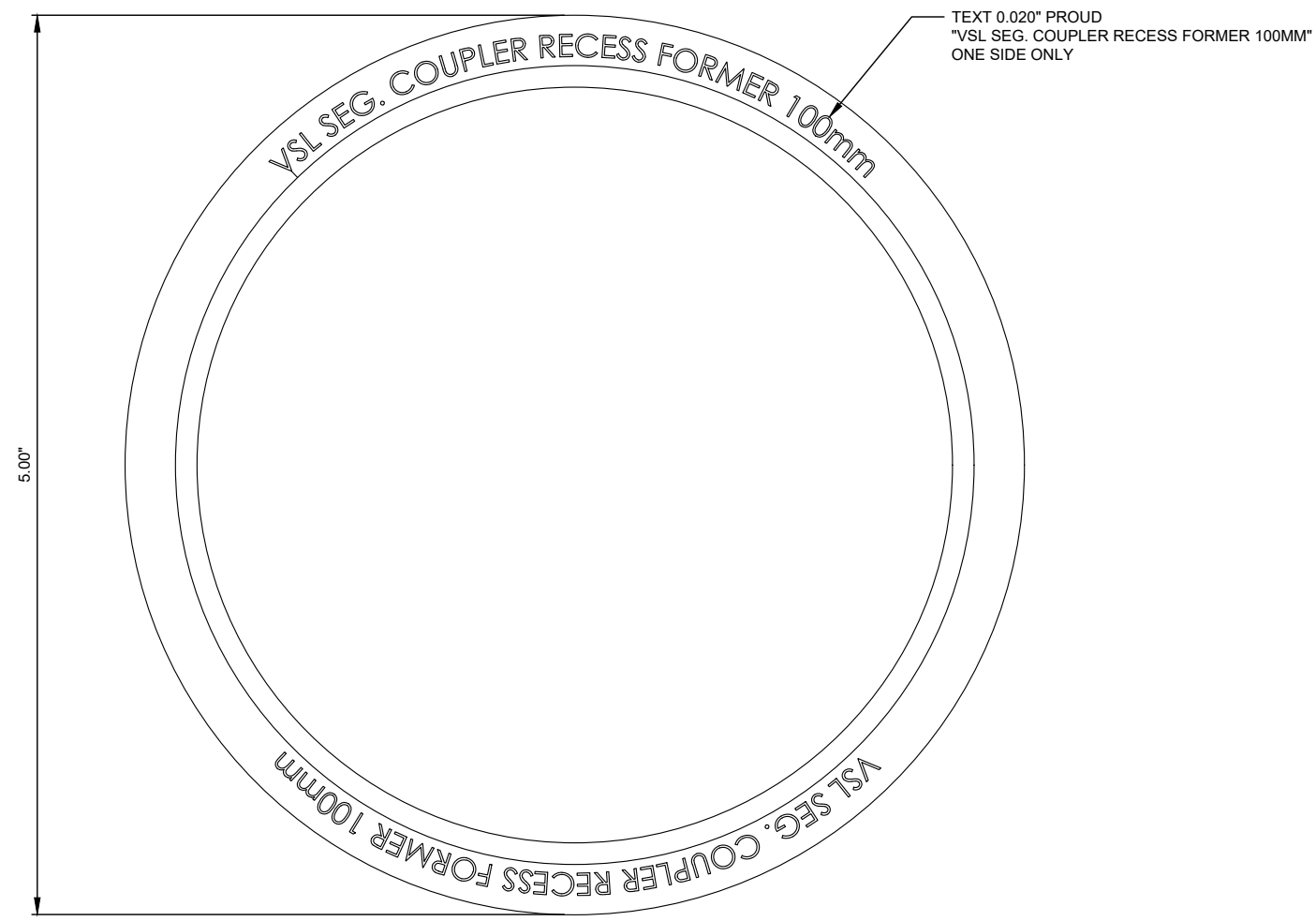
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DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-19 TRUMPET	HDPE BLACK PER ASTM D3350	02BP4322

PROJECT INFORMATION:		PROJECT NO:	SYSTEM	SHEET NO:	C579
TITLE:		ECI 6-19 TRUMPET			
SCALE:		NTS			
DESCRIPTION:		APPROVED FOR CONSTRUCTION			
BY:	CHK:	CDL:	ZX	DATE:	29JAN2020

structural TECHNOLOGIES
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 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
 structuraltechnologies.com

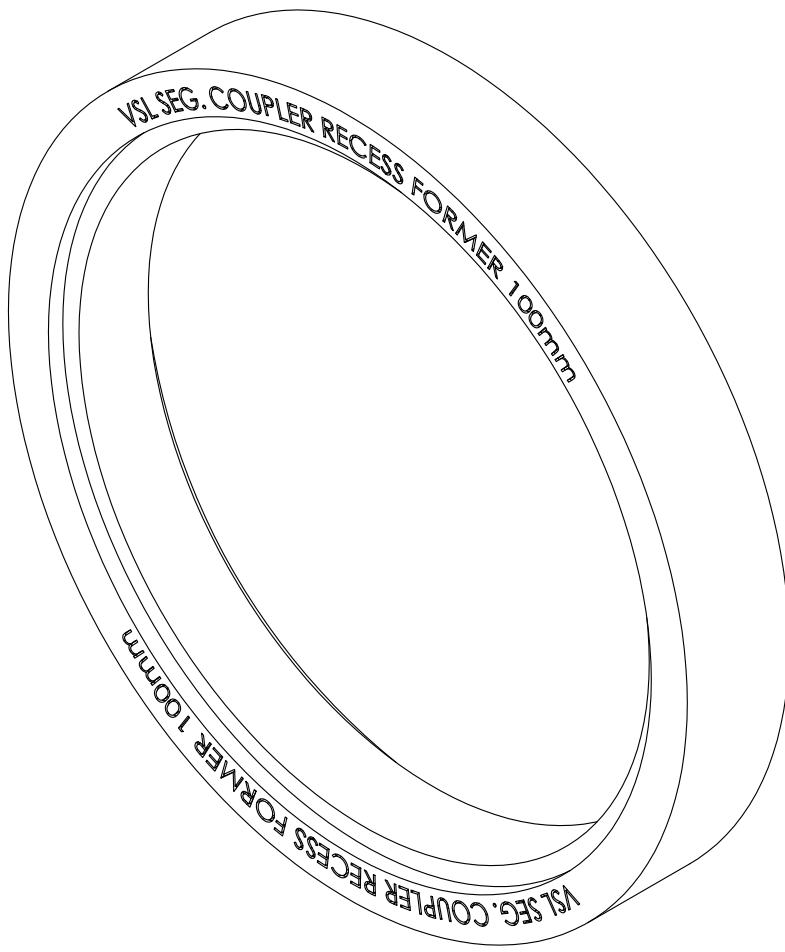
ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



TOP VIEW



SIDE VIEW



3D VIEW

NOTE: THIS IS A TEMPORARY PART.

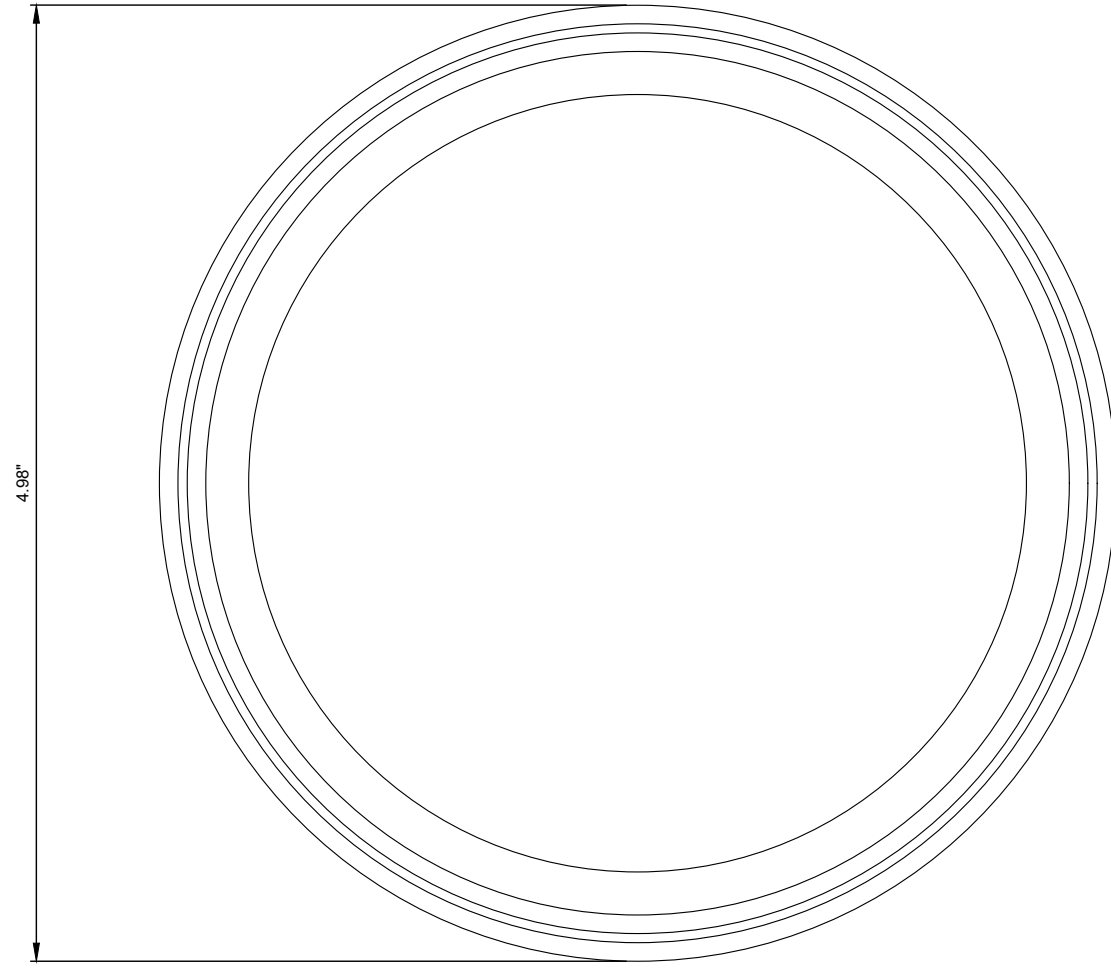
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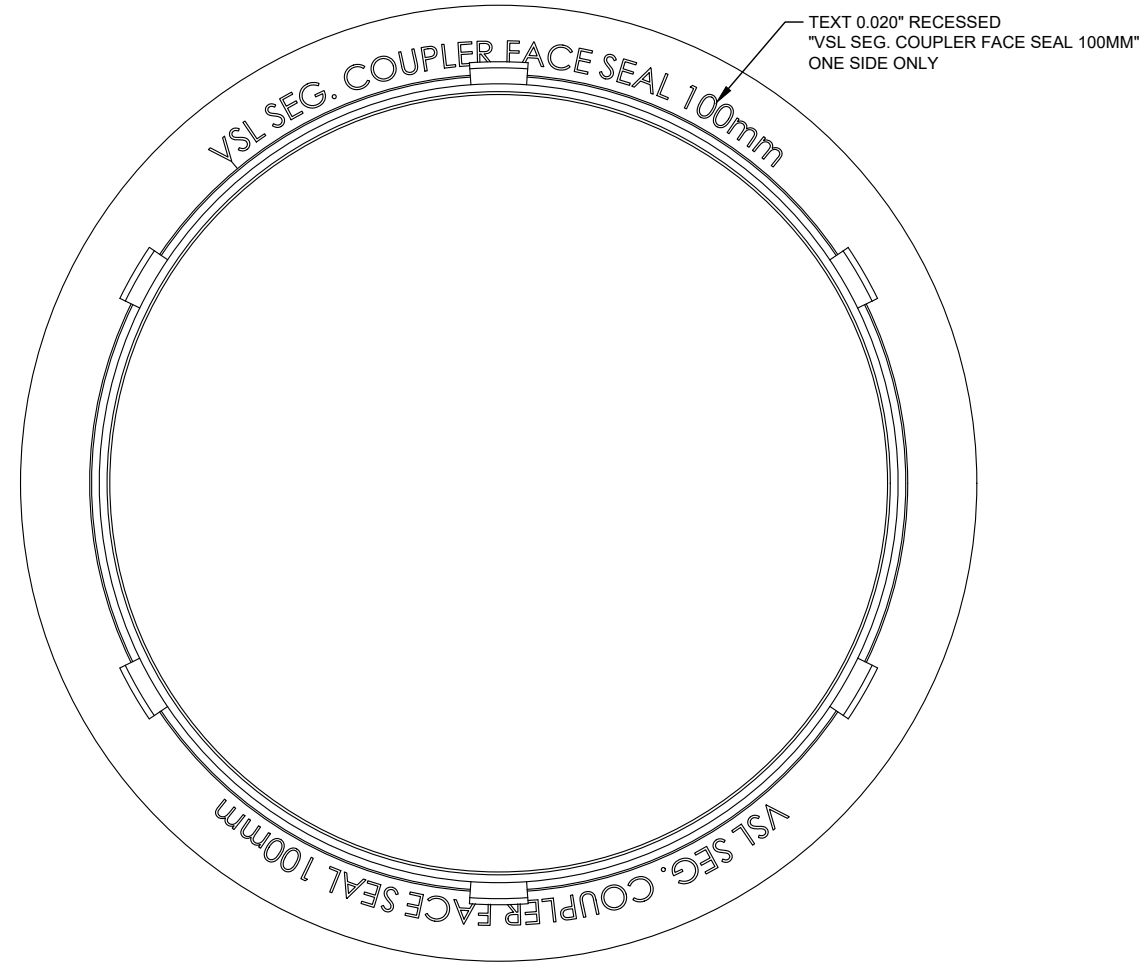
DESCRIPTION	MATERIAL	INVENTORY #
100MM RECESS FORMER	SANTOPRENE PER FDOT 960 TABLE 2.2.1.7-2	02SC10007

<p>structural TECHNOLOGIES Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD CORPORATE OFFICE COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
		NO	BY	CHK
PROJECT INFORMATION:	SYSTEM DRAWING	DESCRIPTION		
TITLE:	100MM RECESS FORMER	NO		
PROJECT NO:	SYSTEM	DATE		
SHEET NO:	NTS	BY		
	C639	CHK		

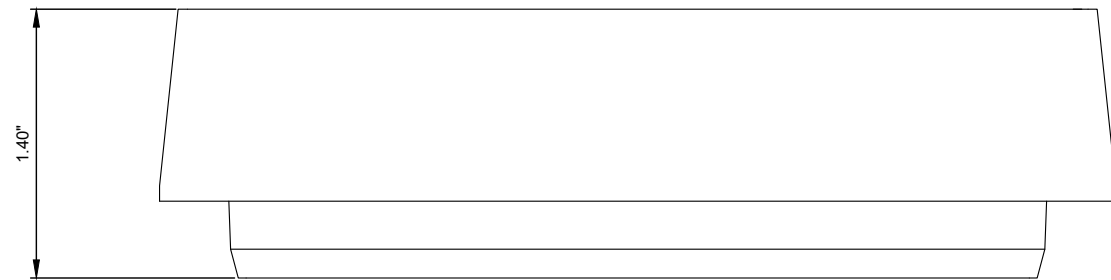
ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



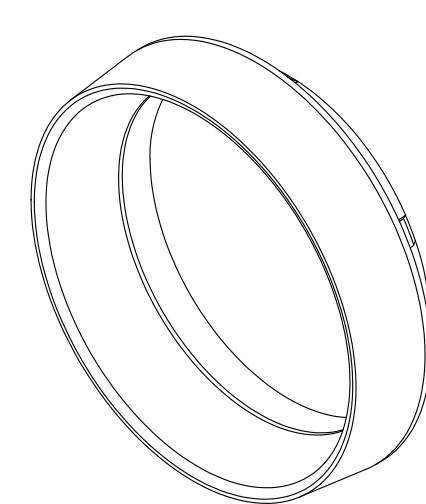
TOP VIEW



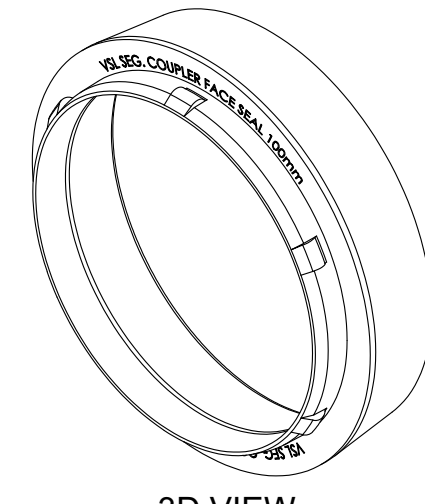
BOTTOM VIEW



SIDE VIEW



3D VIEW



3D VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
100MM FACE SEAL	SANTOPRENE PER FDOT 960 TABLE 2.2.1.7-2	02SC10003

NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
	DESCRIPTION	BY	DATE

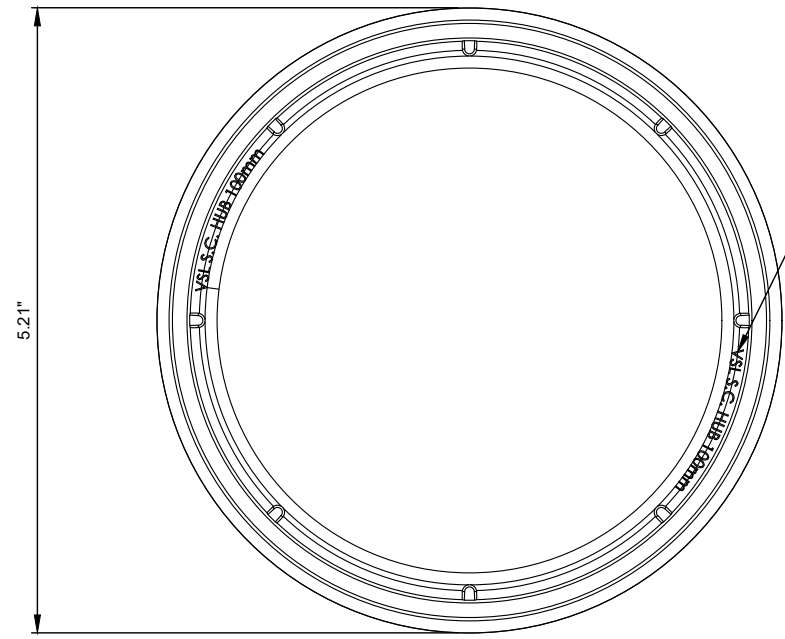
structural TECHNOLOGIES

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046

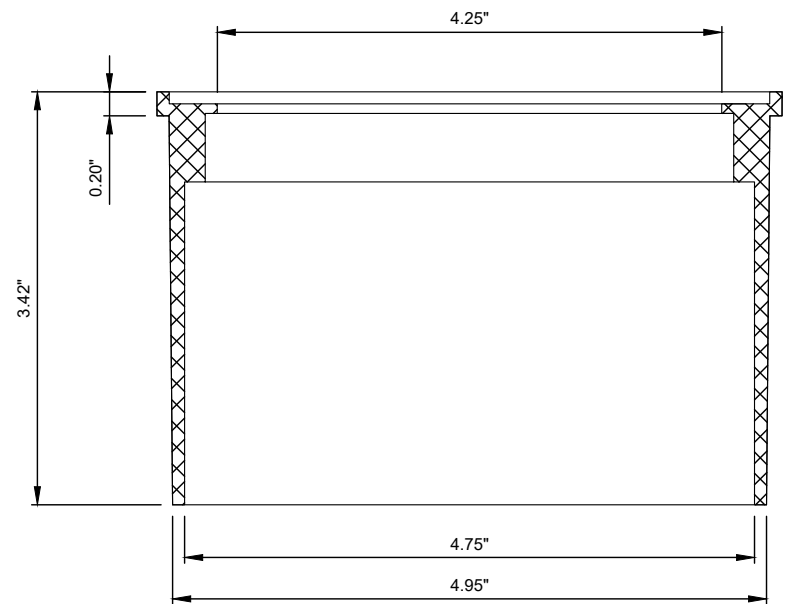
PHONE: (410) 850-7000
 structuraltechnologies.com

PROJECT INFORMATION:	SYSTEM DRAWING
TITLE:	100MM FACE SEAL
PROJECT NO:	SYSTEM
SHEET NO:	NTS
	C640

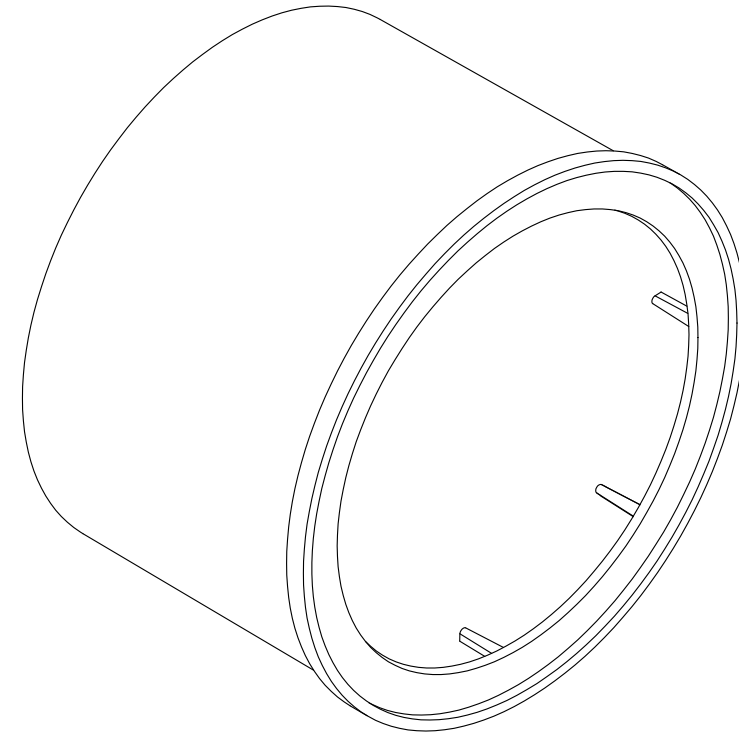
ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



TOP VIEW



SECTION A-A



3D VIEW

TEXT 0.020" PROUD
"VSL S.C. HUB 100MM"
ONE SIDE ONLY

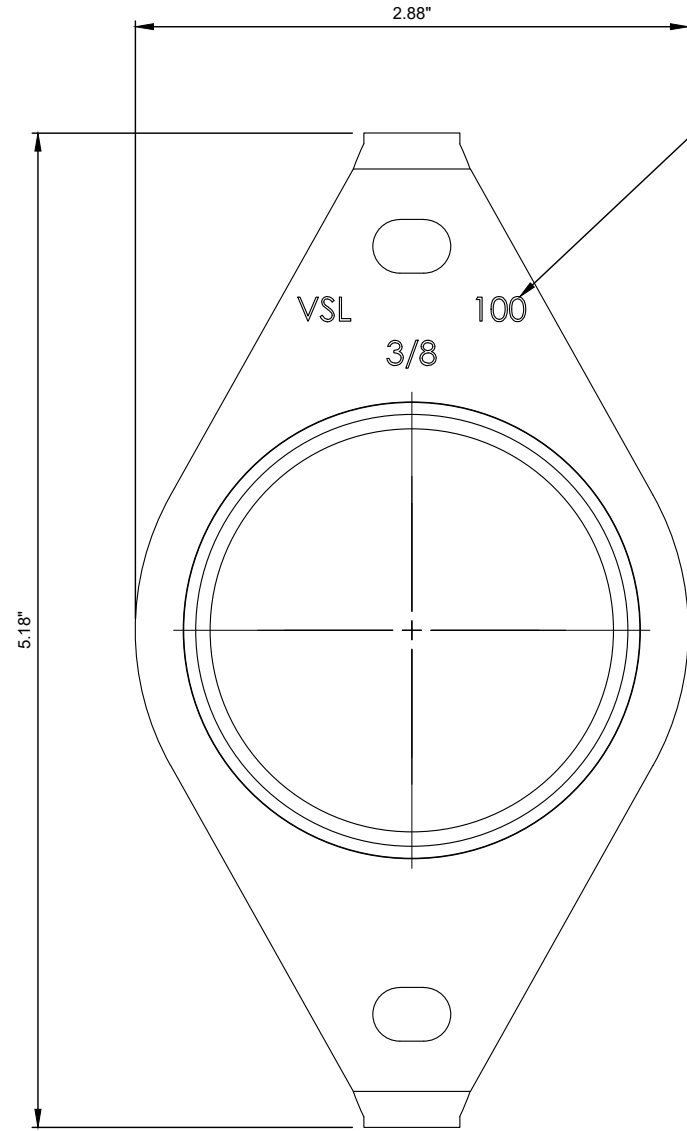
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DESCRIPTION	MATERIAL	INVENTORY #
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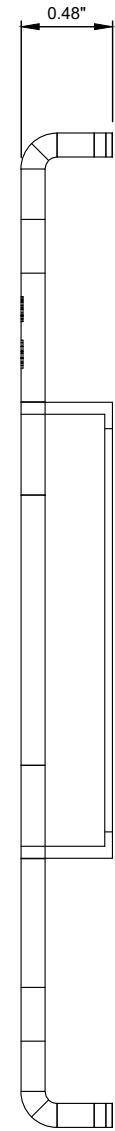
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuraltechnologies.com		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
		NO	BY	DATE
PROJECT INFORMATION:	SYSTEM DRAWING	DESCRIPTION	NO	CHK
TITLE:	100MM HUB			
PROJECT NO:	SYSTEM			
SHEET NO:				
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ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler

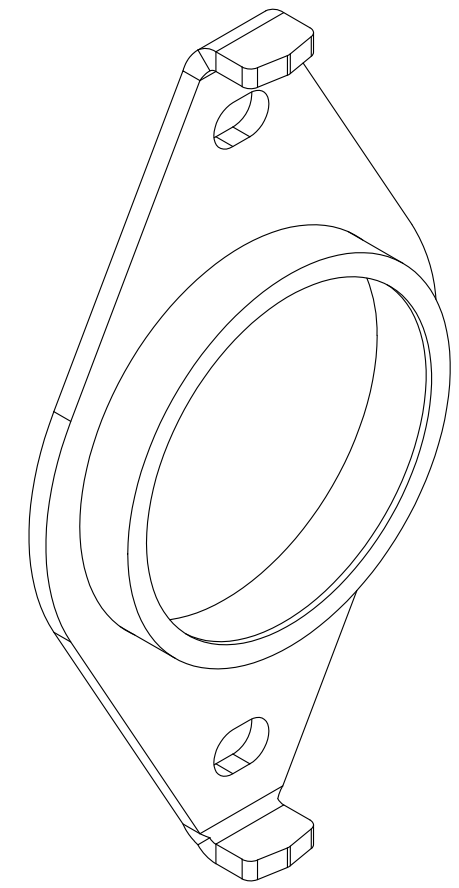


FRONT VIEW

TEXT STAMPED
RECESSED, 0.25" TALL
"VSL"... "100"
"3/8"



SIDE VIEW



3D VIEW

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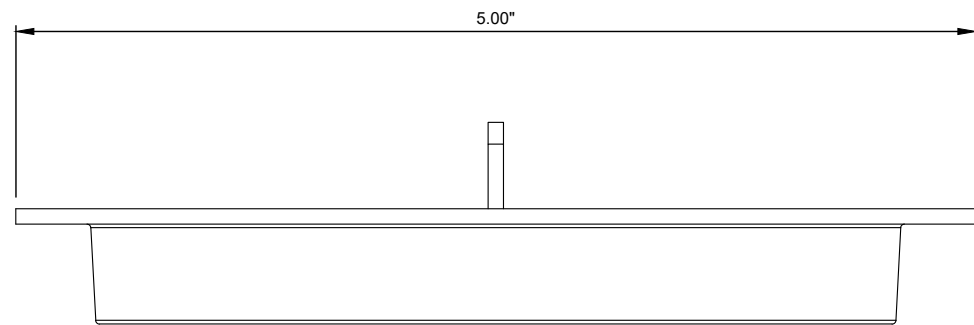
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DESCRIPTION	MATERIAL	INVENTORY #
100MM FORM TOOL	STEEL PER ASTM A36	02SC10005

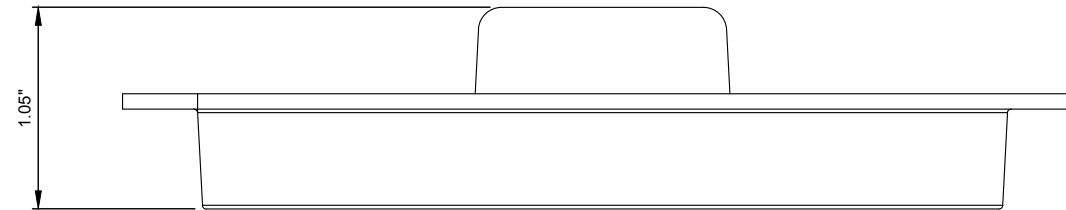
NOTE: THIS IS A TEMPORARY PART.

<p>structural TECHNOLOGIES Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 CORPORATE OFFICE PHONE: (410) 850-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
		NO	BY	CHK
<p>PROJECT INFORMATION:</p>		<p>DESCRIPTION</p>		
<p>SYSTEM DRAWING</p>		<p>NO</p>		
<p>100MM FORM TOOL</p>		<p>DATE</p>		
<p>TITLE:</p>		<p>SCALE:</p>		
<p>PROJECT NO:</p>		<p>NTS</p>		
<p>SHEET NO:</p>		<p>C645</p>		

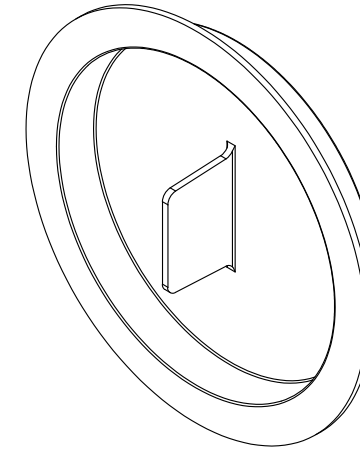
ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



FRONT VIEW



SIDE VIEW



3D VIEW

NOTE: THIS IS A TEMPORARY PART.

DESCRIPTION	MATERIAL	INVENTORY #
100MM PROTECTIVE CAP	LDPE	02SC10006

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PROJECT INFORMATION:

SYSTEM DRAWING

100MM PROTECTIVE CAP

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C662

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

CHK

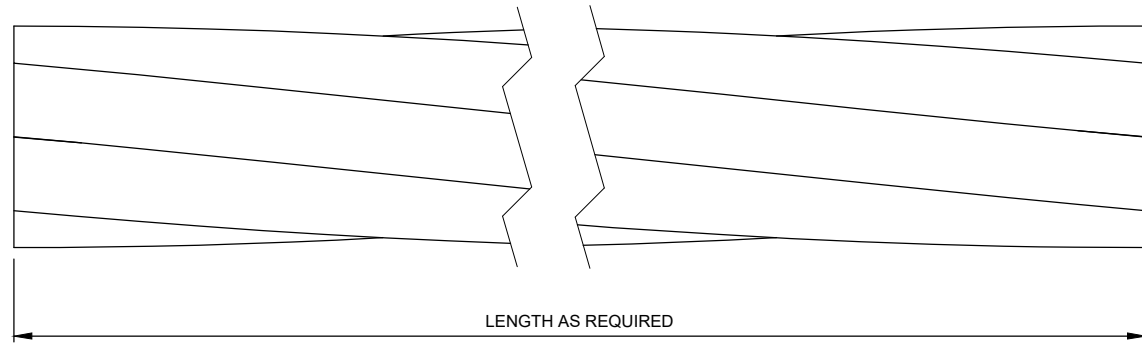
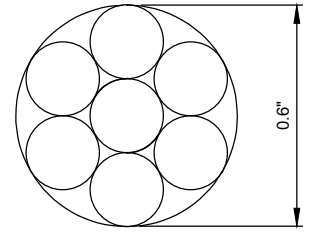
DATE

29JAN2020

structural TECHNOLOGIES

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
 structuraltechnologies.com

ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT_Test 2017\Strand



DESCRIPTION	MATERIAL	INVENTORY #
VSL POST TENSIONING 0.6" BARE STRAND	LOW-RELAXATION STEEL, SEVEN WIRE STRAND PER ASTM A416, 270KSI	VA02SD0013

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PROJECT INFORMATION:

PROJECT NO:	SYSTEM	SCALE:	NTS
SHEET NO:		C674	

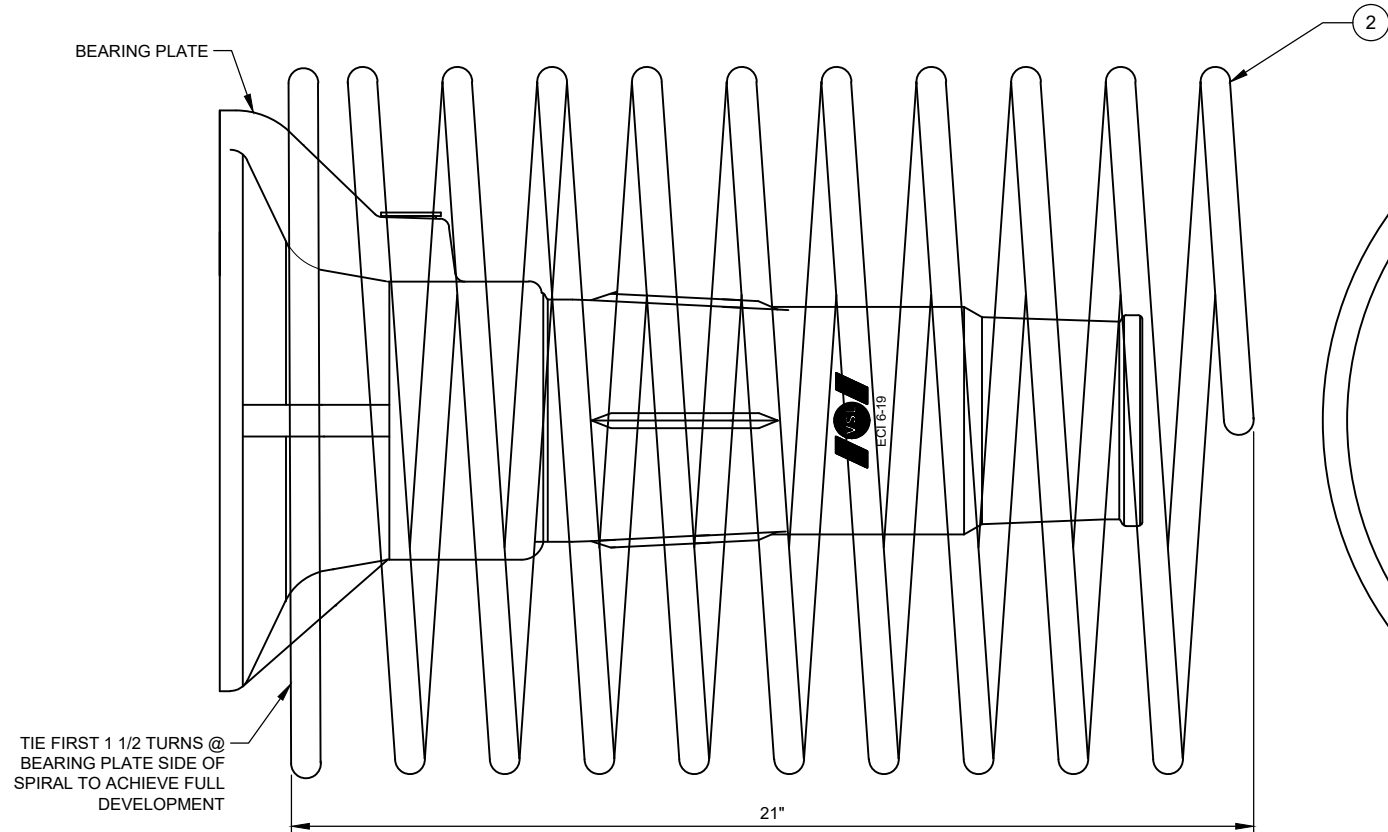
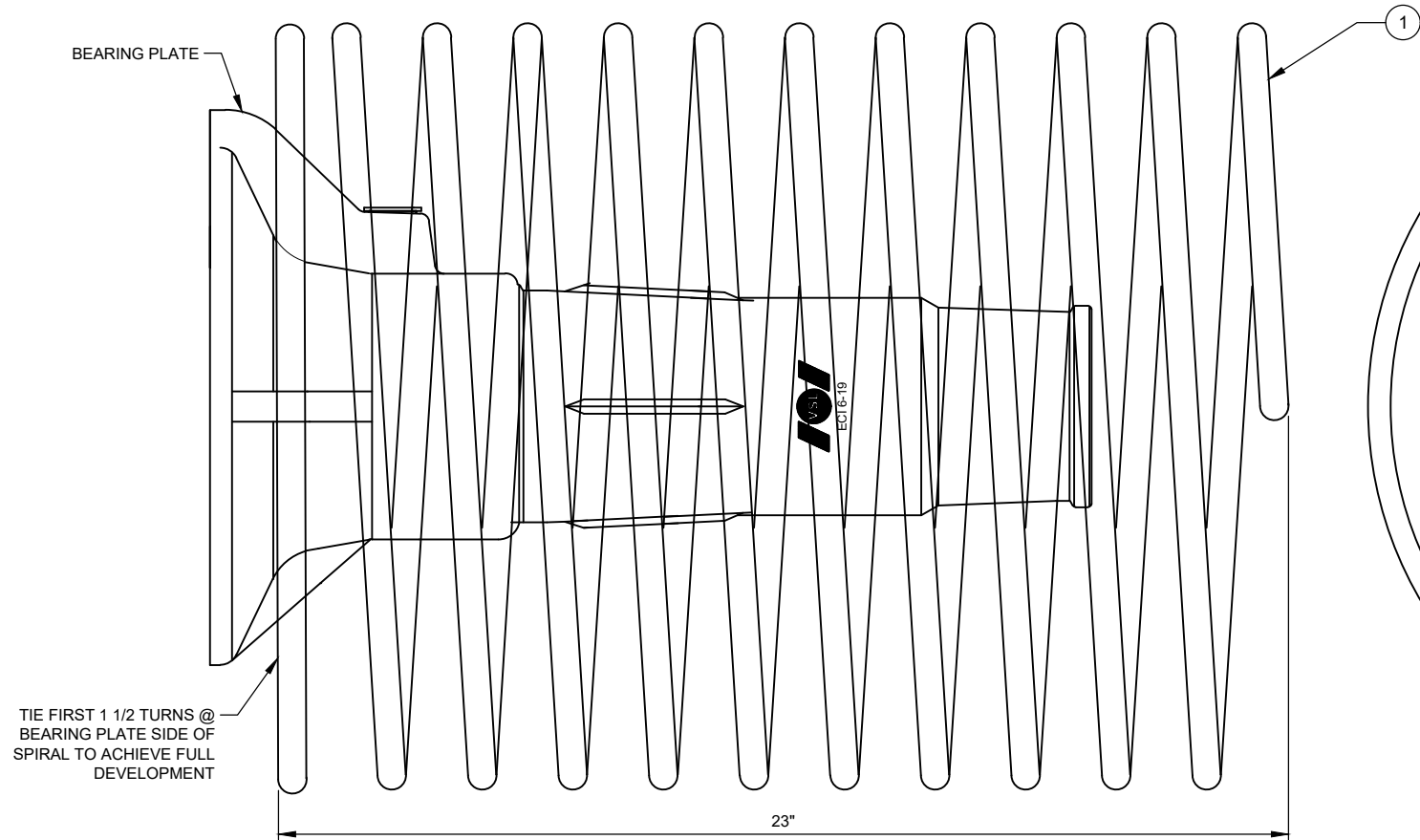
SYSTEM DRAWING

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

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 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	CHK
			DATE

ELECTRONIC FILE LOCATION: I:\SVS_System Drawings\Work In Progress Drawings\Florida DOT_Test 2017\ECI 6-19 Flexible Filler Submittal



TIE FIRST 1 1/2 TURNS @ BEARING PLATE SIDE OF SPIRAL TO ACHIEVE FULL DEVELOPMENT

TIE FIRST 1 1/2 TURNS @ BEARING PLATE SIDE OF SPIRAL TO ACHIEVE FULL DEVELOPMENT

ITEM	DESCRIPTION	MATERIAL	INVENTORY #
1	ECI 6-19 SPIRAL #3500 (#5, DIA. 17", 2" PITCH, 11 1/2 TURNS)	STEEL GR60 PER ASTM A615	02BP0093
2	ECI 6-19 SPIRAL #5500 (#5, DIA. 15", 2" PITCH, 10 1/2 TURNS)	STEEL GR60 PER ASTM A615	02BP0094

NOTE:

- THESE SPIRALS ARE TO BE IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS AND CONTRACT DRAWINGS
- CONCRETE STRENGTH SHOWN IN SPIRAL NAME AS #XXXX WHERE # = PSI

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PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
ECI 6-19 SPIRALS

PROJECT NO: SYSTEM
SCALE: NTS
SHEET NO: C679

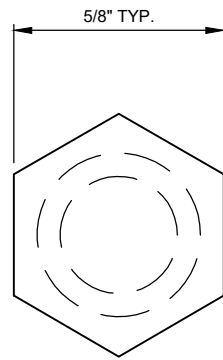
structural TECHNOLOGIES

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046
PHONE: (410) 860-7000
structuraltechnologies.com

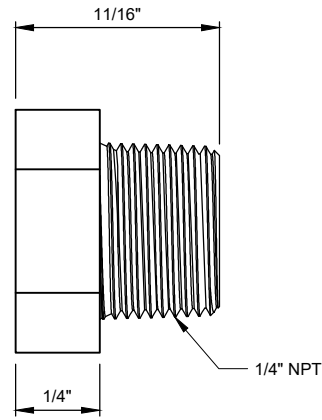
APPROVED FOR CONSTRUCTION	NO
DESCRIPTION	NO
BY	NO
CHK	NO
DATE	NO

CDL	ZX	29JAN2020
BY	CHK	DATE

ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



FRONT VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
1/4" NPT PE PLUG	HDPE BLACK PER ASTM D3350	02DT01919

PROJECT INFORMATION:

SYSTEM DRAWING

1/4" NPT PE PLUG

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:

C693

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CDL ZX

CHK

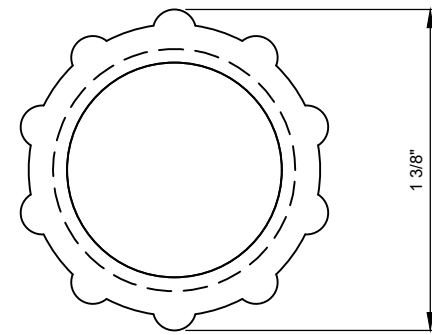
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29JAN2020

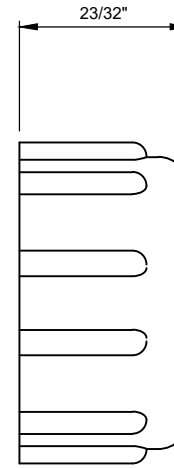
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 PHONE: (410) 850-7000
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ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT_Test 2017\Grouting Accessories



TOP VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
RIBBED CAP W/ 3/4" FNPT	BLACK POLYPROPYLENE PER ASTM D4101	02DT01912

PROJECT INFORMATION:

SYSTEM DRAWING

RIBBED CAP W/ 3/4" FNPT

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:

C701

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

CHK

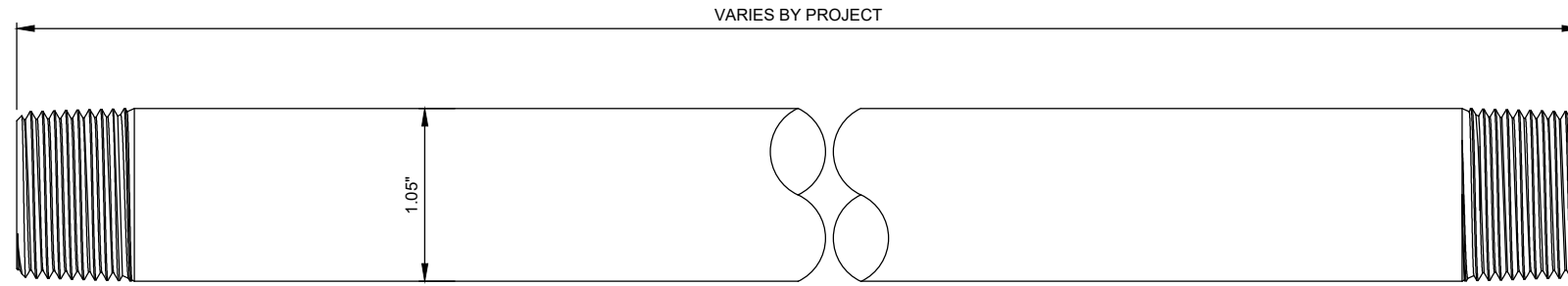
DESCRIPTION

DATE

29JAN2020

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 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
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 CORPORATE OFFICE COLUMBIA, MD 21046
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ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
3/4" NPT NIPPLE	SCH 40 STEEL	-

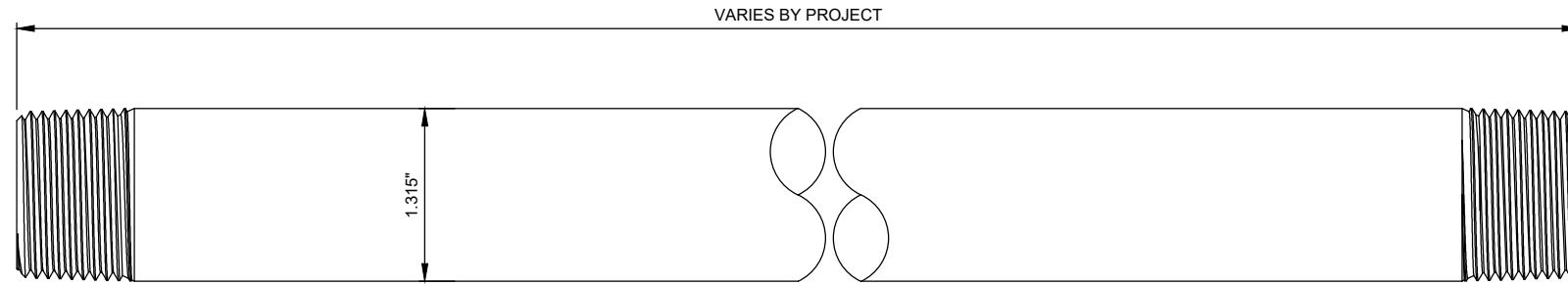
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	C722
TITLE:	3/4" NPT STEEL NIPPLE

structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
 structuraltechnologies.com

NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	DATE

ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
1" NPT STEEL NIPPLE	SCH 40 STEEL	-

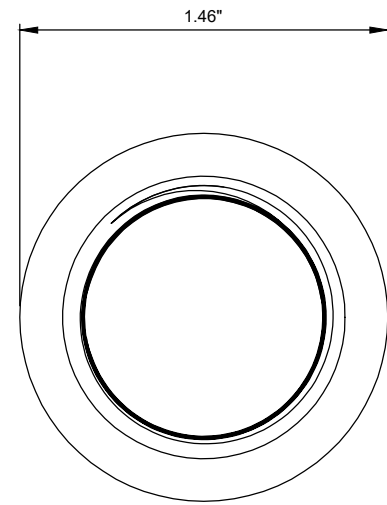
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	NTS
TITLE:	1" NPT STEEL NIPPLE

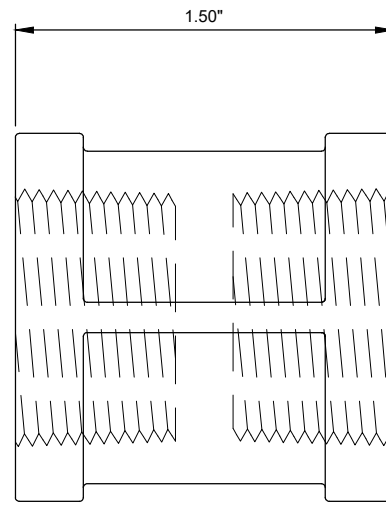
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 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
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 CORPORATE OFFICE COLUMBIA, MD 21046
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	CHK
			DATE

ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



END VIEW



SIDE VIEW

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

PROJECT INFORMATION:

SYSTEM DRAWING

3/4" NPT F/F COUPLER

PROJECT NO:

SYSTEM

SHEET NO:

SCALE:

NTS

C728

NO

APPROVED FOR CONSTRUCTION

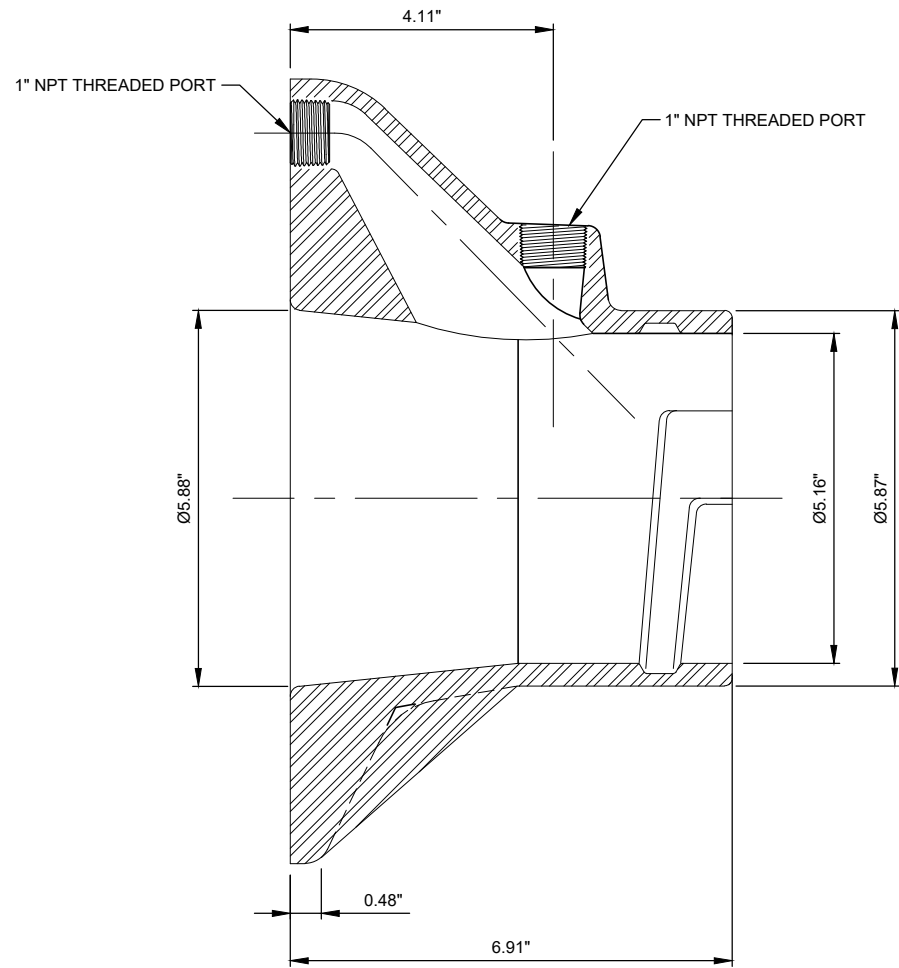
DESCRIPTION

BY CDL ZX

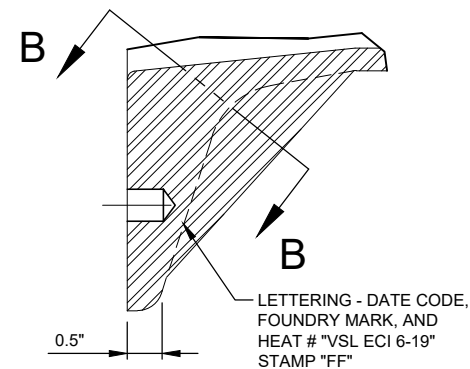
DATE 29JAN2020

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 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
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 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
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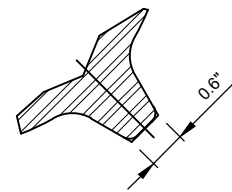
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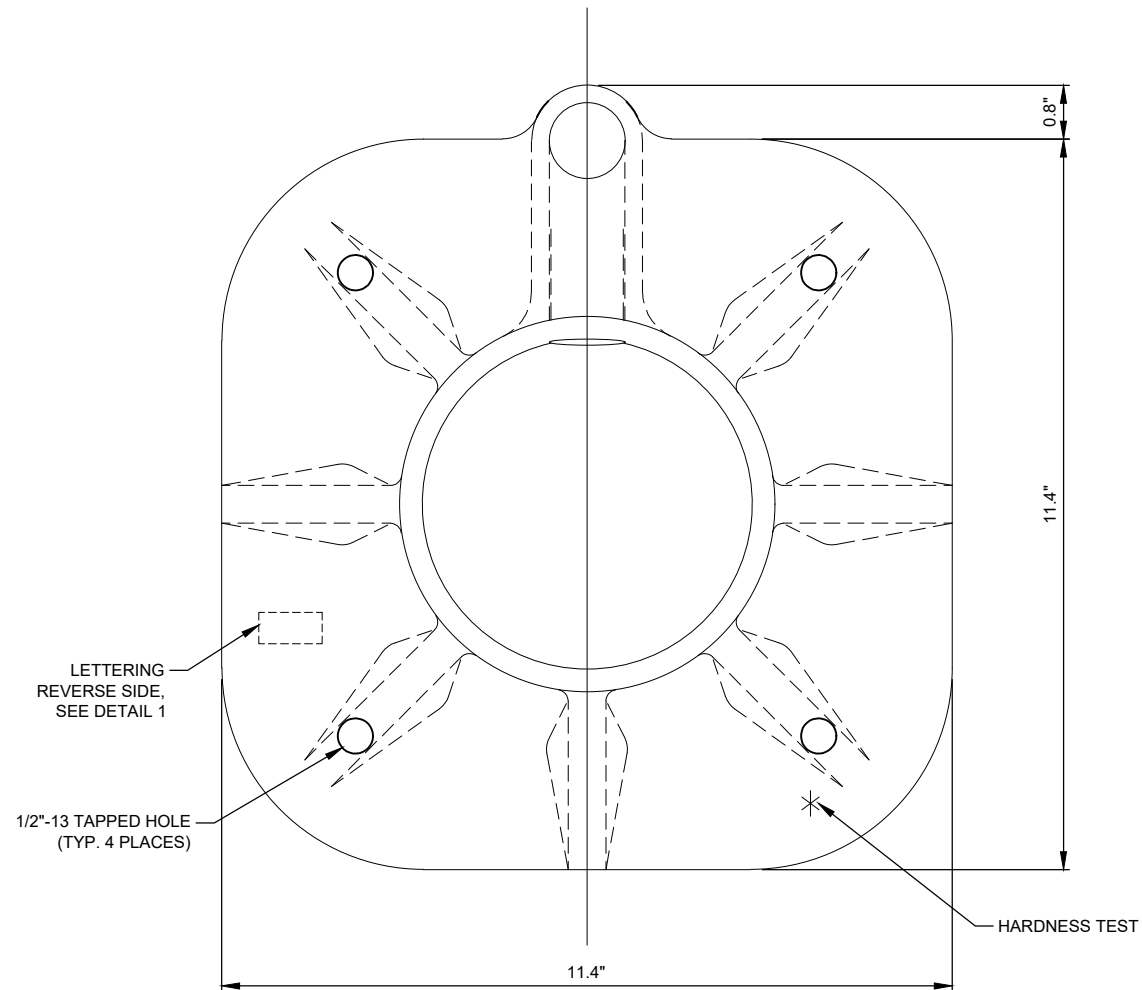
SECTION A-A



DETAIL 1



SECTION B-B



BACK VIEW

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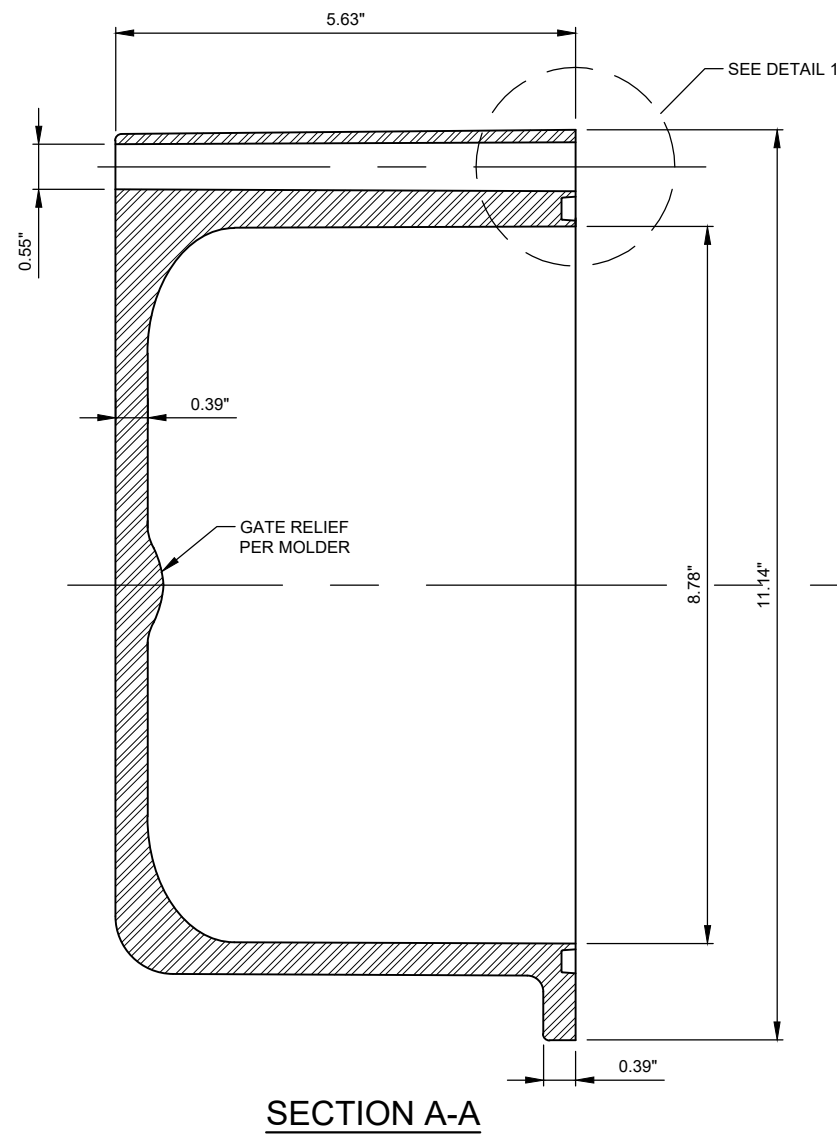
DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-19 BEARING PLATE W/ 1" NPT PORT GALVANIZED PER ASTM A123	CAST IRON GR80-55-06 PER ASTM A536	02BP0038V

APPROVED FOR CONSTRUCTION	CDL ZX	18FEB2020
DESCRIPTION	BY	CHK
NO		DATE

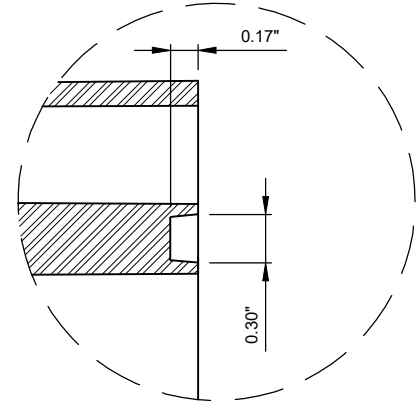
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 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046
 PHONE: (410) 860-7000
 structuraltechnologies.com

PROJECT INFORMATION:	SYSTEM DRAWING
TITLE:	ECI 6-19 BEARING PLATE W/ 1" NPT PORT (GALVANIZED)
PROJECT NO:	SYSTEM
SCALE:	NTS
SHEET NO:	C738

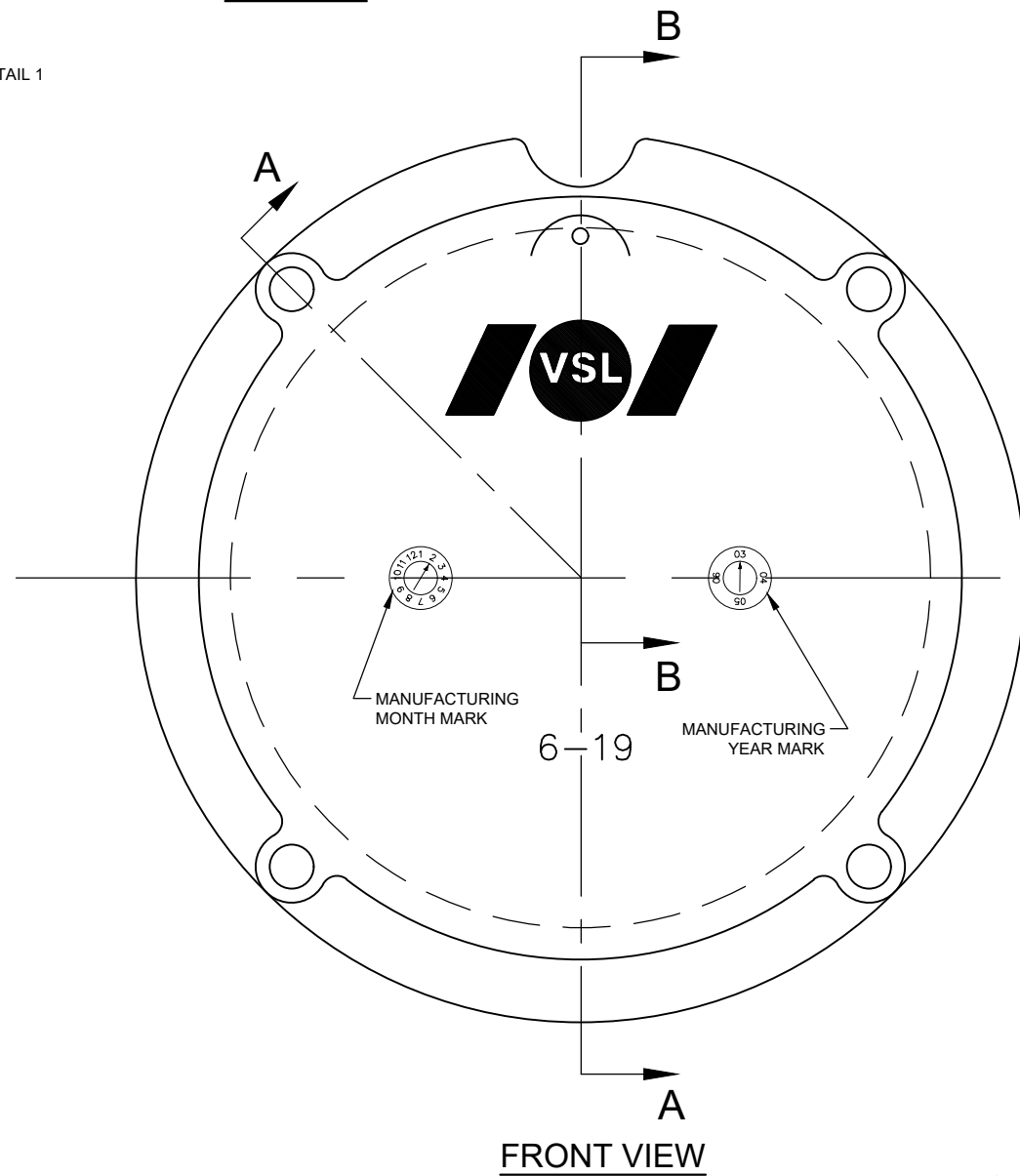
ELECTRONIC FILE LOCATION: I:\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 Flexible Filler Submittal



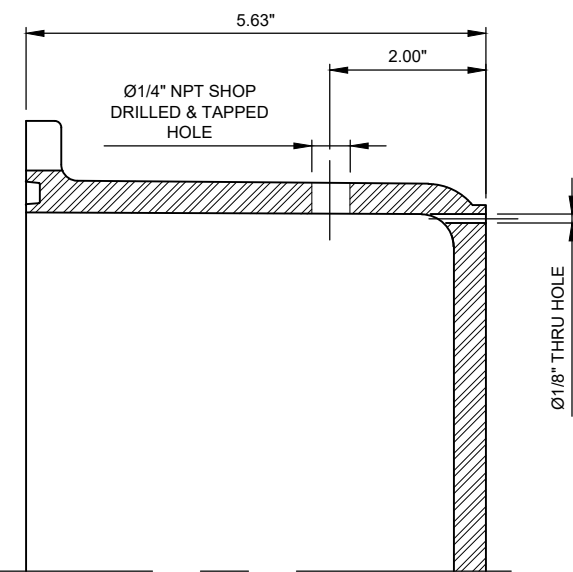
SECTION A-A



DETAIL 1



FRONT VIEW



SECTION B-B

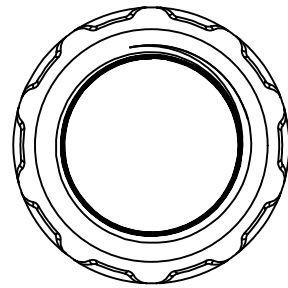
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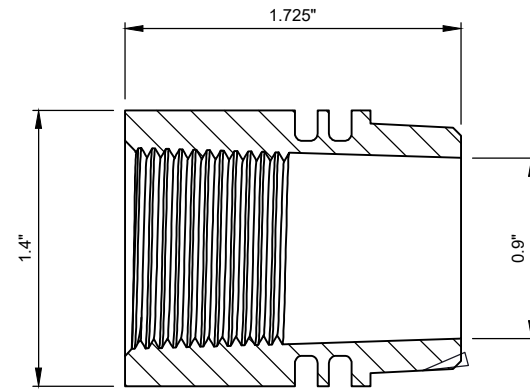
DESCRIPTION	MATERIAL	INVENTORY #
ECI 6-19 ANCHORAGE CAP W/ 1/4" VERTICAL PORT	ABS LUSTRAN 633 PER ASTM D4673	02GC61903

<p>Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL STRUTURAL TECHNOLOGIES, LLC CORPORATE OFFICE 10150 OLD COLUMBIA RD COLUMBIA, MD 21046 PHONE: (410) 850-7000 structuraltechnologies.com</p>		APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
		NO	BY	CHK
PROJECT INFORMATION: SYSTEM DRAWING		DESCRIPTION		
TITLE: ECI 6-19 ANCHORAGE CAP W/ 1/4" VERTICAL PORT		SCALE: NTS		
PROJECT NO: SYSTEM		SHEET NO: C740		

ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT_Test 2017\Flexible Filler Accessories



END VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960.

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DESCRIPTION	MATERIAL	INVENTORY #
3/4" FNPT SMOOTH PORT	HDPE YELLOW PER ASTM D3350	02DT0253

PROJECT INFORMATION:

SYSTEM DRAWING

3/4" FNPT SMOOTH PORT

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C743

NO
APPROVED FOR CONSTRUCTION

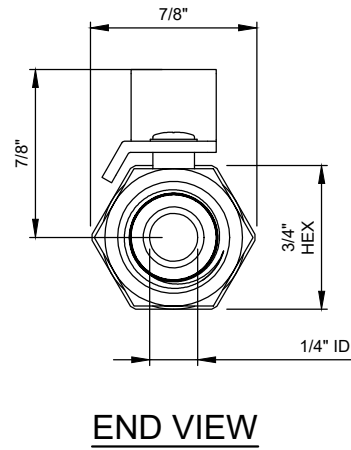
BY
DESCRIPTION

CDL ZX
CHK

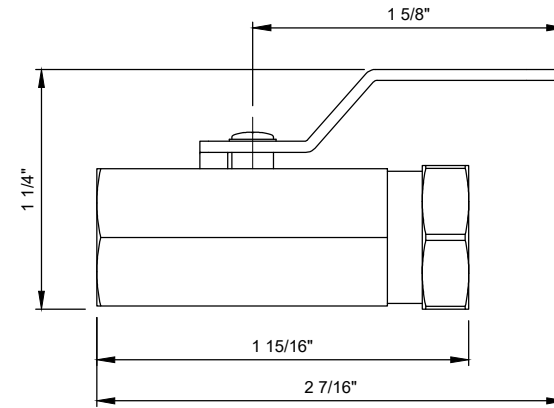
29JAN2020
DATE

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ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



END VIEW



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
1/4 TURN BALL VALVE W/ 1/4" FNPT	SCH 40 STEEL	02DT01924

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE: 1/4 TURN BALL VALVE W/ 1/4" FNPT

PROJECT NO:

SYSTEM

SHEET NO:

SCALE:

NTS

C744

NO

APPROVED FOR CONSTRUCTION

CDL ZX

BY

DESCRIPTION

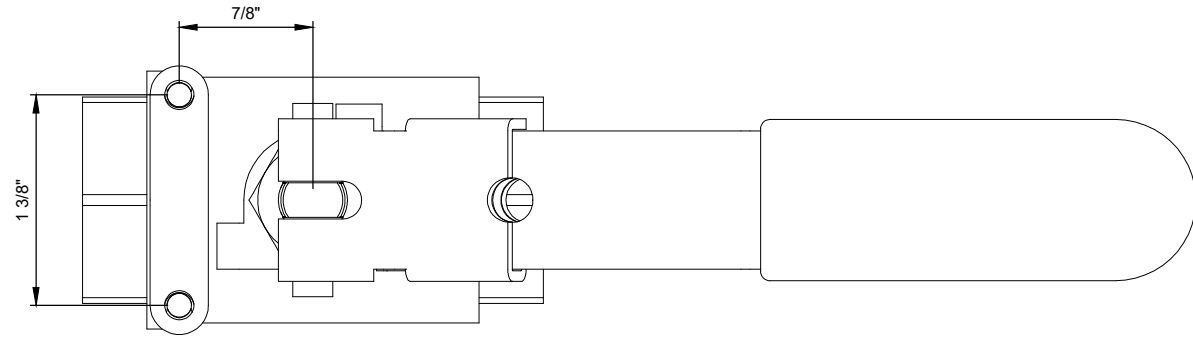
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DATE

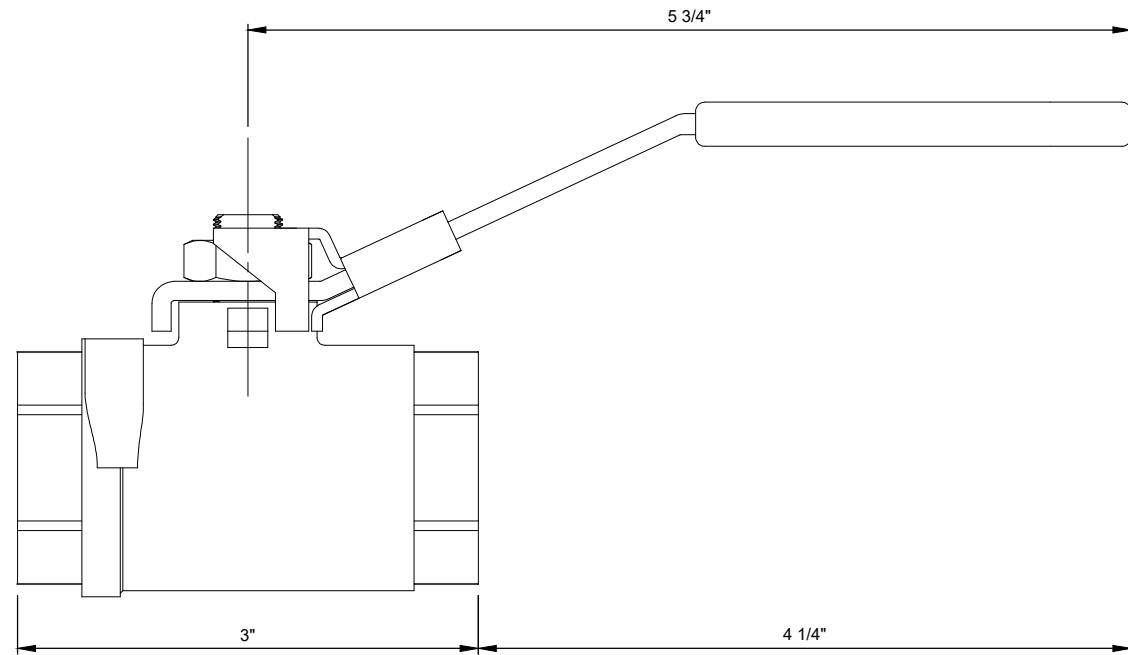
29JAN2020

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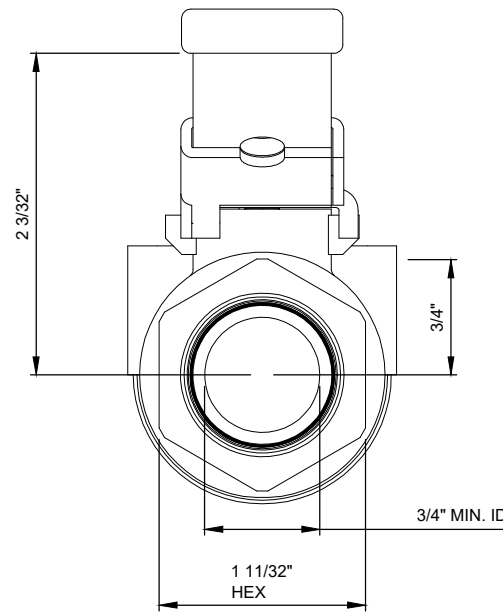
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TOP VIEW



SIDE VIEW



END VIEW

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ELECTRONIC FILE LOCATION: I:\SVS\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories

DESCRIPTION	MATERIAL	INVENTORY #
STEEL 1/4 TURN BALL VALVE W/ 3/4" FNPT	SCH 40 STEEL	02DT01925

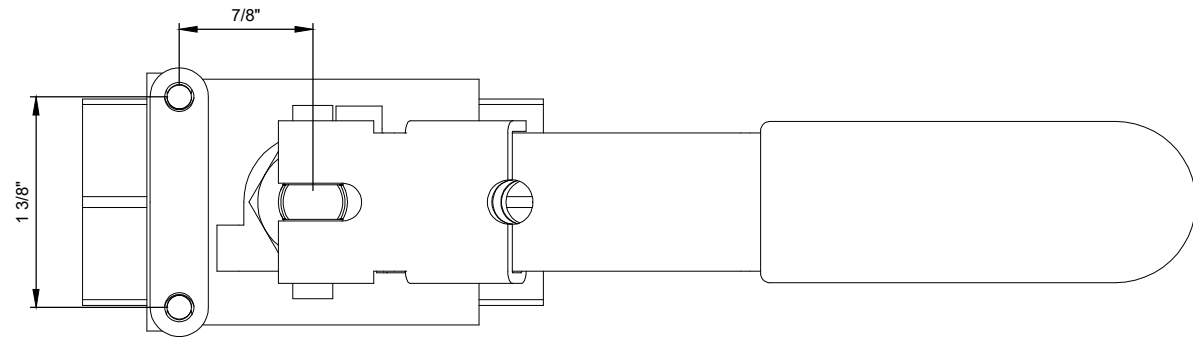
NOTE: THIS IS A TEMPORARY PART.

NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	DATE

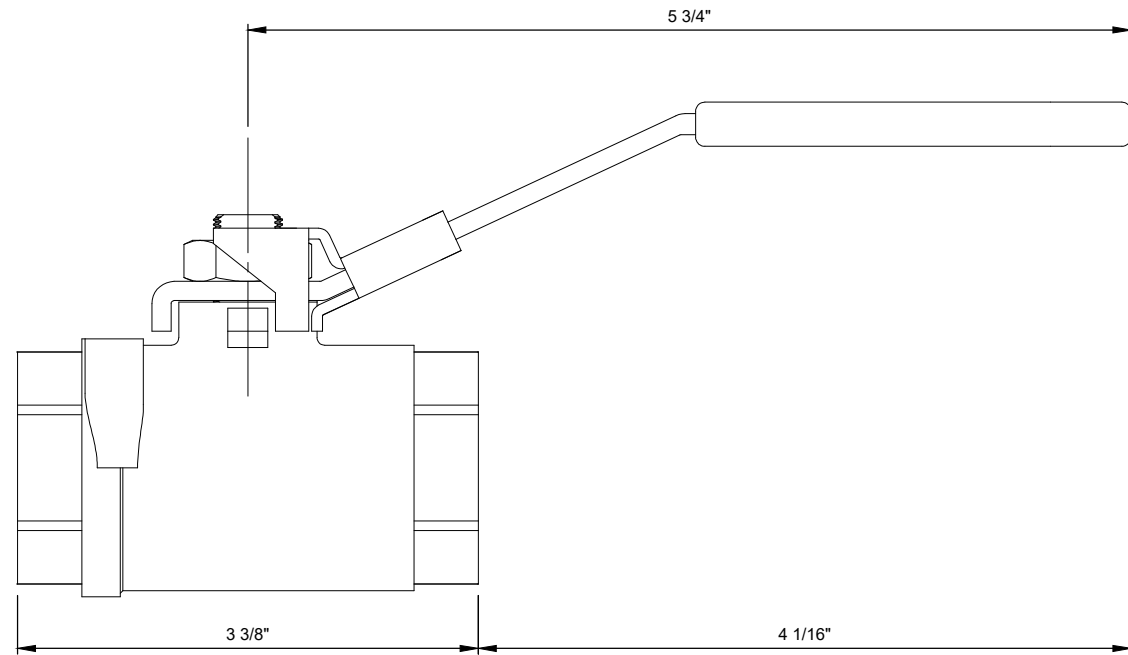
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PROJECT INFORMATION:	SYSTEM DRAWING
TITLE:	STEEL 1/4 TURN BALL VALVE W/ 3/4" FNPT
PROJECT NO:	SYSTEM
SCALE:	NTS
SHEET NO:	C745

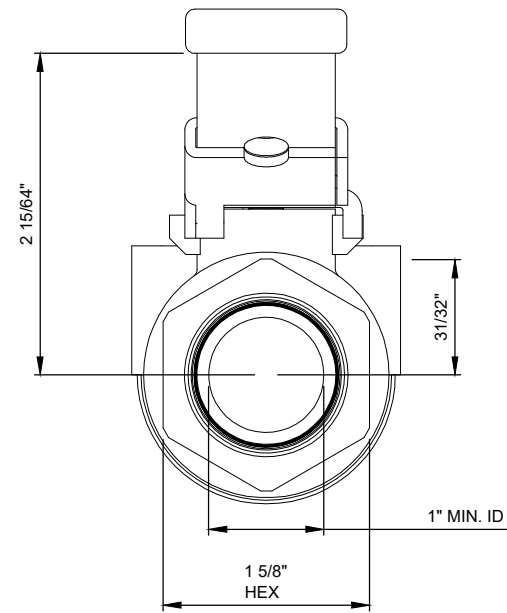
ELECTRONIC FILE LOCATION: I:\VSI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



TOP VIEW



SIDE VIEW



END VIEW

NOTE: THIS IS A TEMPORARY PART.

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DESCRIPTION	MATERIAL	INVENTORY #
STEEL 1/4 TURN BALL VALVE W/ 1" FNPT	SCH 40 STEEL	02DT01926

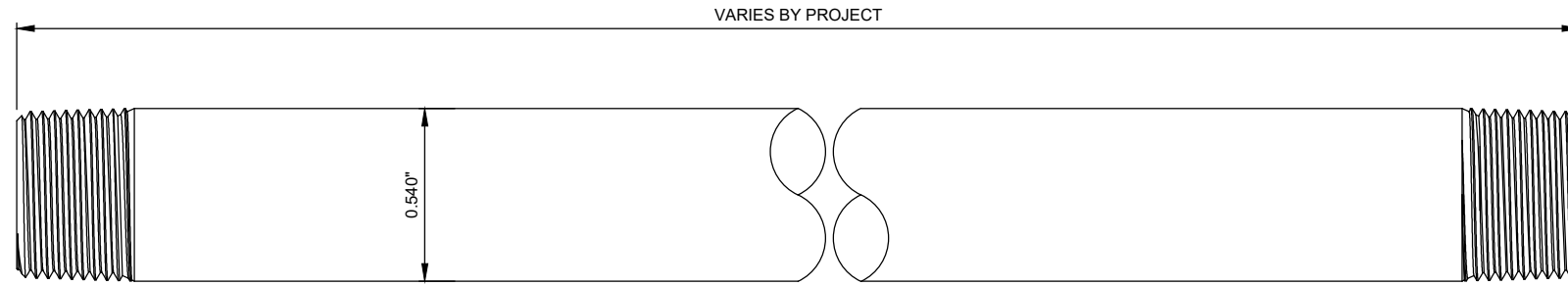
NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	DATE

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 COLUMBIA, MD 21046

PROJECT INFORMATION:	SYSTEM DRAWING	STEEL 1/4 TURN BALL VALVE W/ 1" FNPT
PROJECT NO:	SYSTEM	SCALE: NTS
SHEET NO:		C746

ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
1/4" NPT STEEL NIPPLE	SCH 40 STEEL	-

PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	NTS
C749	

SYSTEM DRAWING

1/4" NPT STEEL NIPPLE

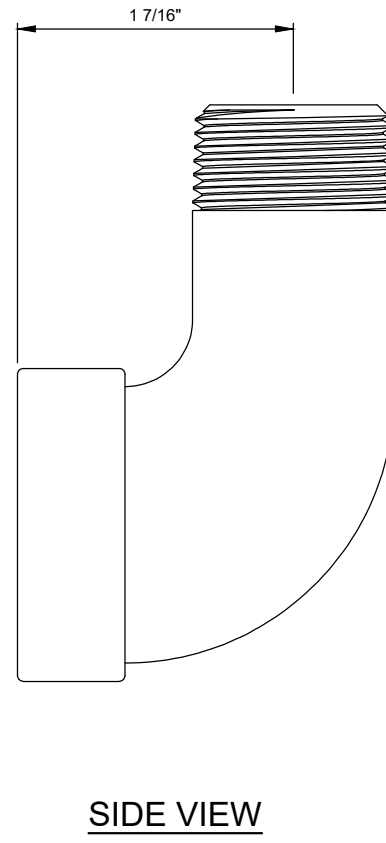
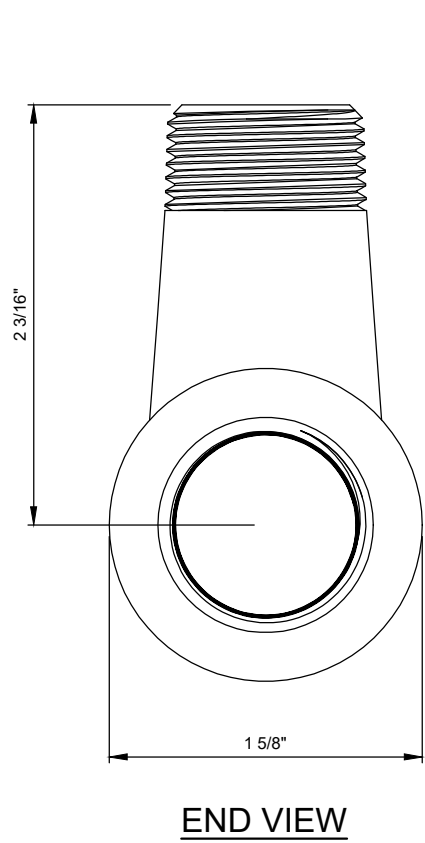
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	DATE

ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



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

PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	NTS
C750	

SYSTEM DRAWING

TITLE:
3/4" FNPT X MNPT STEEL ELBOW

structural TECHNOLOGIES

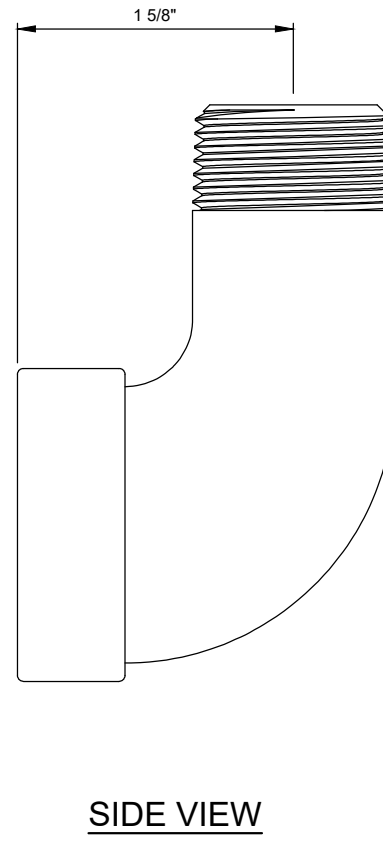
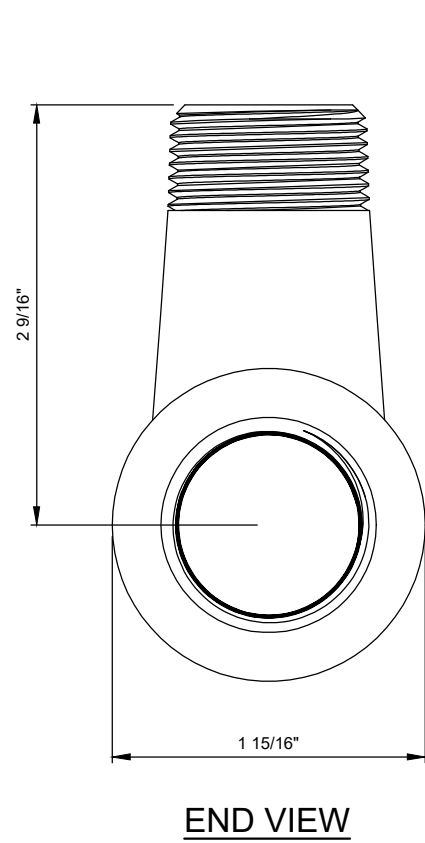
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	DESCRIPTION				

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DESCRIPTION	MATERIAL	INVENTORY #
1" FNPT X MNPT STEEL ELBOW	SCH 40 STEEL	02DT01955

PROJECT INFORMATION:

SYSTEM DRAWING

TITLE:
1" FNPT X MNPT STEEL ELBOW

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C751

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

CDL ZX

BY

CHK

DATE

29JAN2020

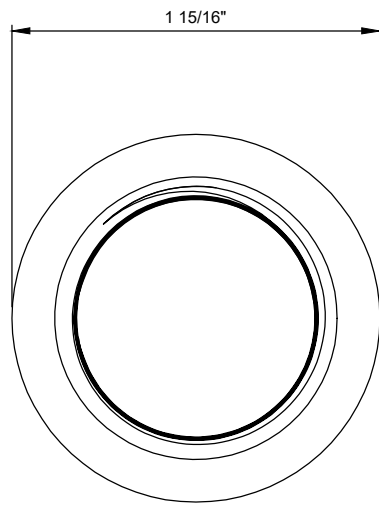
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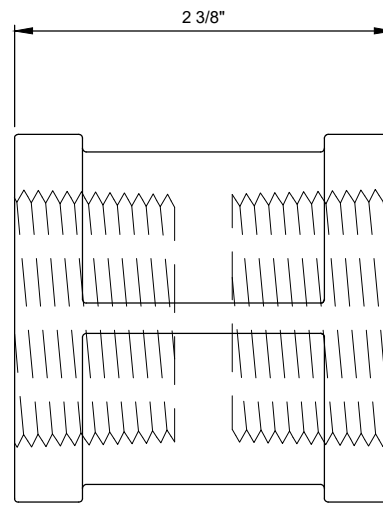
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ELECTRONIC FILE LOCATION: I:\VSI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



END VIEW



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
1" NPT F/F COUPLER	SCH 40 STEEL	02DT01953

PROJECT INFORMATION:

SYSTEM DRAWING

1" NPT F/F COUPLER

PROJECT NO:

SYSTEM

SHEET NO:

SCALE:

NTS

C752

NO

APPROVED FOR CONSTRUCTION

CDL ZX

DESCRIPTION

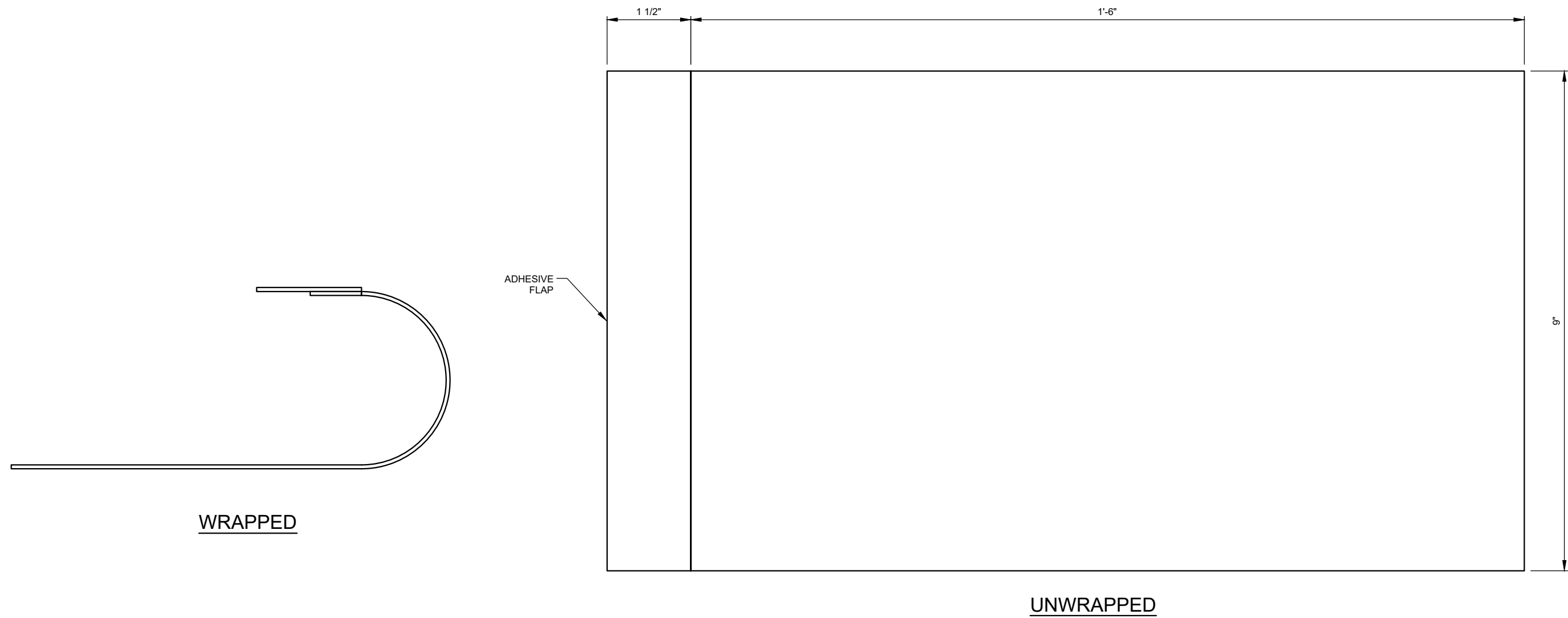
BY

CHK

DATE

structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
 structuraltechnologies.com

ELECTRONIC FILE LOCATION: I:\SVS\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\EC 6-19 Flexible Filler Submittal



WRAPPED

UNWRAPPED

ADHESIVE FLAP

1 1/2"

1'-6"

9"

DESCRIPTION	MATERIAL	INVENTORY #
CANUSA KLNN-115 WS BK/L 9" HEAT SHRINK SLEEVE	POLYOLEFIN PER TABLE 960 2.2.1.8-1	02DT0514

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

THESE SHOP DRAWINGS ILLUSTRATE THE DETAILS OF THE STRUCTURAL TECHNOLOGIES, LLC POST-TENSIONING SYSTEM. THEY WERE PREPARED IN CONFORMANCE WITH THE STRUCTURAL DESIGN PROVIDED TO STRUCTURAL TECHNOLOGIES, LLC BY PROJECT OWNER OR ITS REPRESENTATIVE. STRUCTURAL TECHNOLOGIES, LLC TOOK NO PART IN THE PREPARATION OR REVIEW OF SAID STRUCTURAL DESIGN AND STRUCTURAL TECHNOLOGIES, LLC DISCLAIMS ANY LIABILITY FOR IT. THE STAMP OR SEAL OF A STRUCTURAL TECHNOLOGIES, LLC 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 INFORMATION:

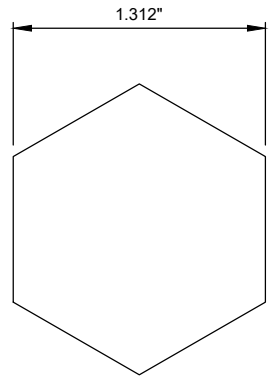
PROJECT NO:	SYSTEM
SHEET NO:	C763
TITLE:	KLNN-115 9" HEAT SHRINK SLEEVE

structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046
 PHONE: (410) 850-7000 structuraltechnologies.com

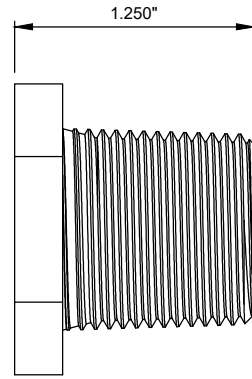
NO	APPROVED FOR CONSTRUCTION	NO
BY	DESCRIPTION	CHK
CDL	ZX	29JAN2020

DATE	29JAN2020
CHK	ZX
BY	CDL

ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Crouching Accessories



END VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

DESCRIPTION	MATERIAL	INVENTORY #
3/4" NPT PE PLUG	BLACK HDPE PER ASTM D3350	02DT01913

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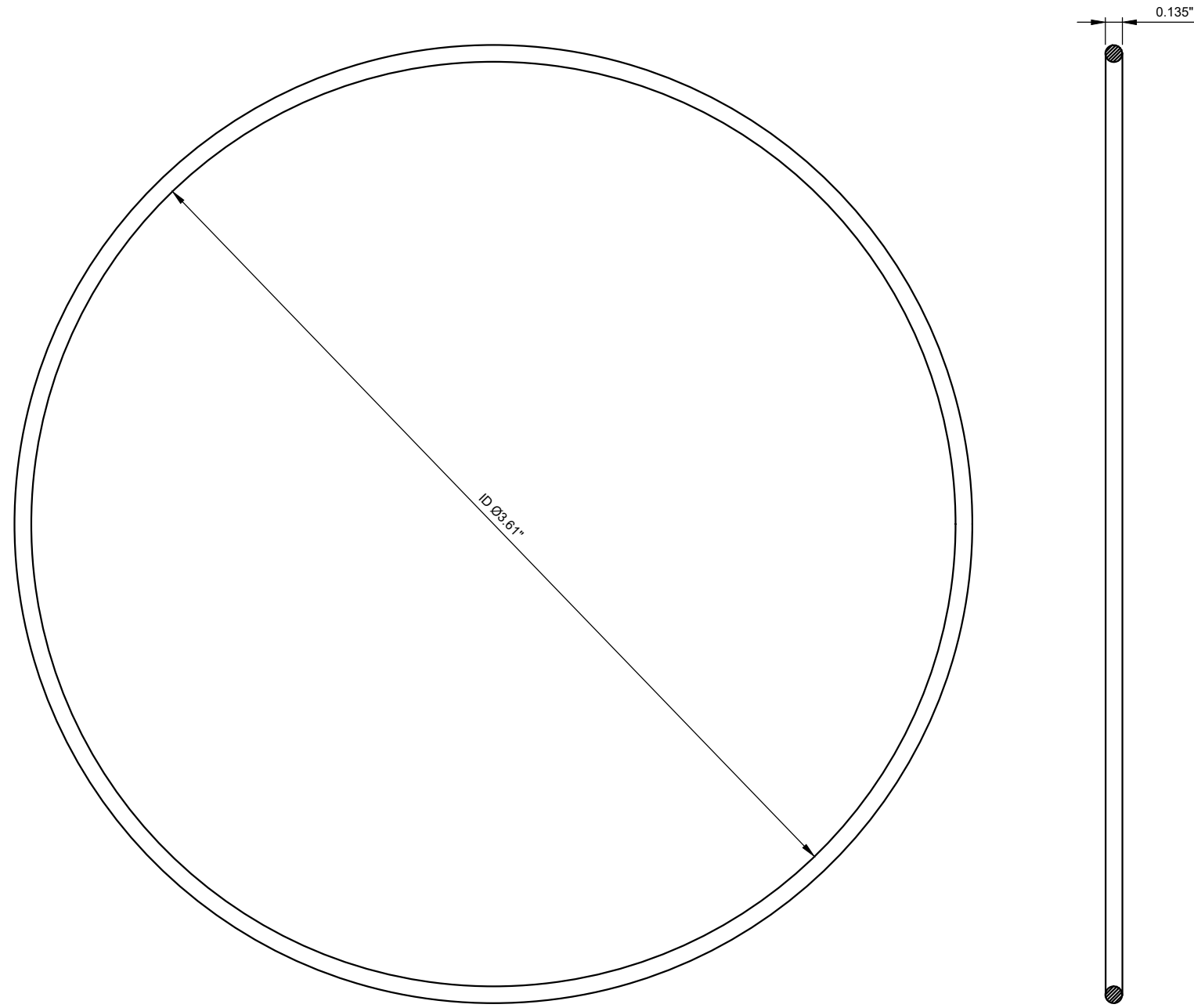
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
TITLE:	3/4" NPT PE PLUG
SHEET NO:	C787

structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
	DESCRIPTION	BY	CHK
			DATE

ELECTRONIC FILE LOCATION: I:\VSL\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\VSLAB 6-4 Crouted System



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DESCRIPTION	MATERIAL	SIZE	INVENTORY #
VSLAB 6-4 TRUMPET O-RING	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	3.61"x3.88"x0.135"	02VS06406

PROJECT INFORMATION:

SYSTEM DRAWING

VSLAB 6-4 TRUMPET O-RING

PROJECT NO:

SYSTEM

SHEET NO:

SCALE:

NTS

C793

NO

APPROVED FOR CONSTRUCTION

CDL ZX

29JAN2020

DATE

BY

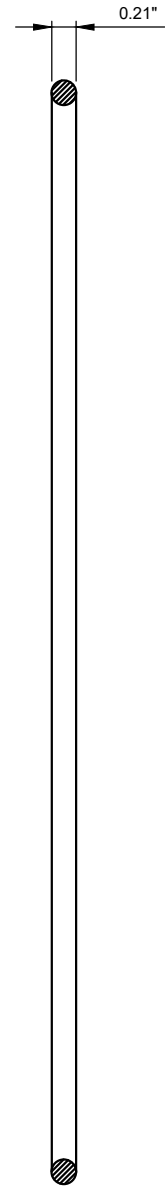
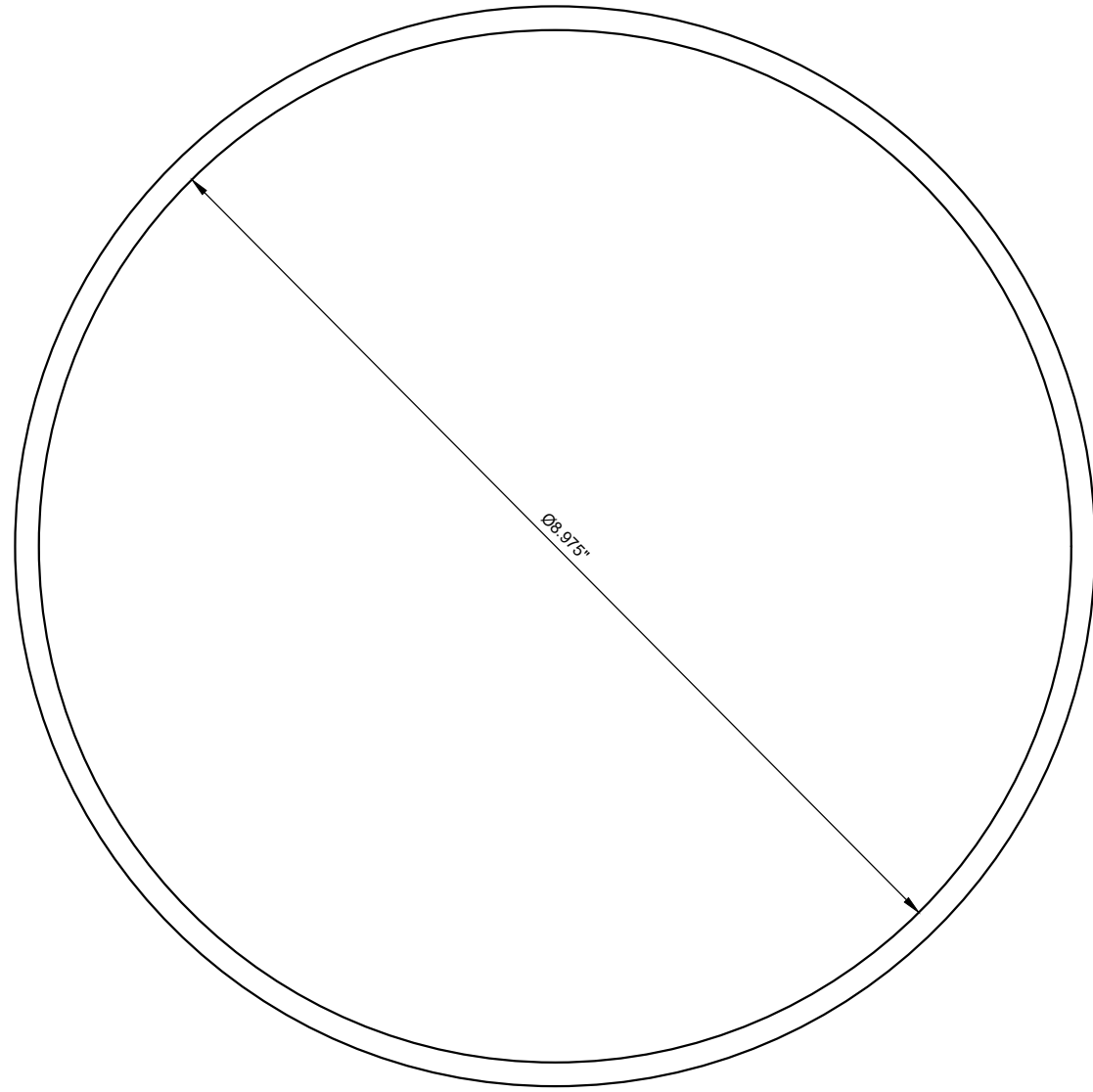
CHK

DESCRIPTION

structural TECHNOLOGIES

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
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ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\ECI 6-19 GROUT System



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DESCRIPTION	SIZE	MATERIAL	INVENTORY #
ECI 6-19 GROUT CAP O-RING	8.975"x9.395"x0.21"	BUNA-N 70 D PER FDOT 960 TABLE 2.2.1.7-1	02WX6020

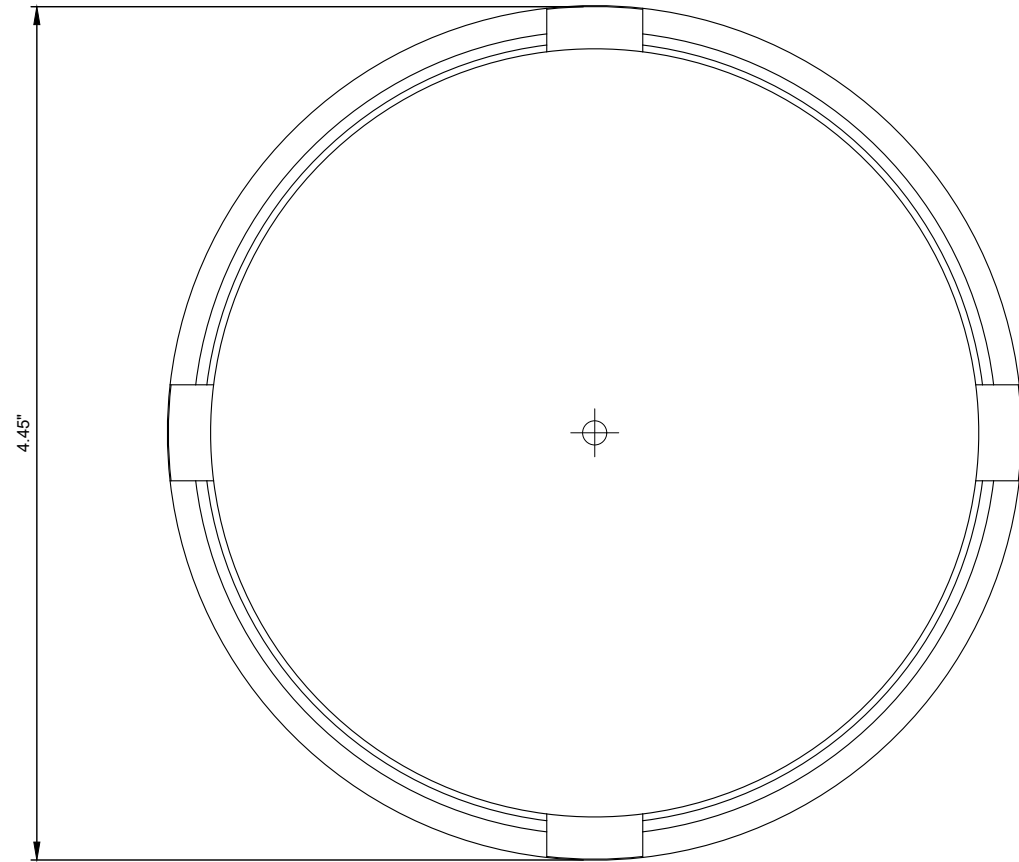
PROJECT INFORMATION:

PROJECT NO:	SYSTEM
SHEET NO:	NTS
TITLE:	ECI 6-19 GROUT CAP O-RING

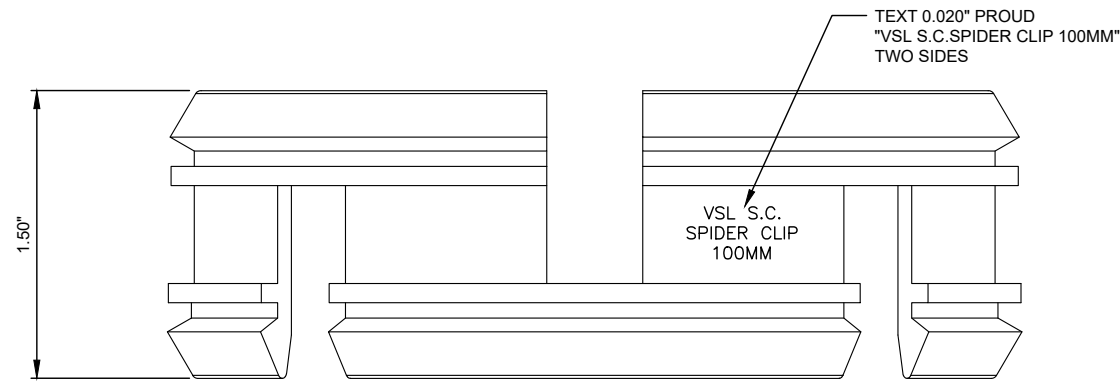
structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD COLUMBIA, MD 21046
 PHONE: (410) 850-7000
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NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	CHK
			DATE

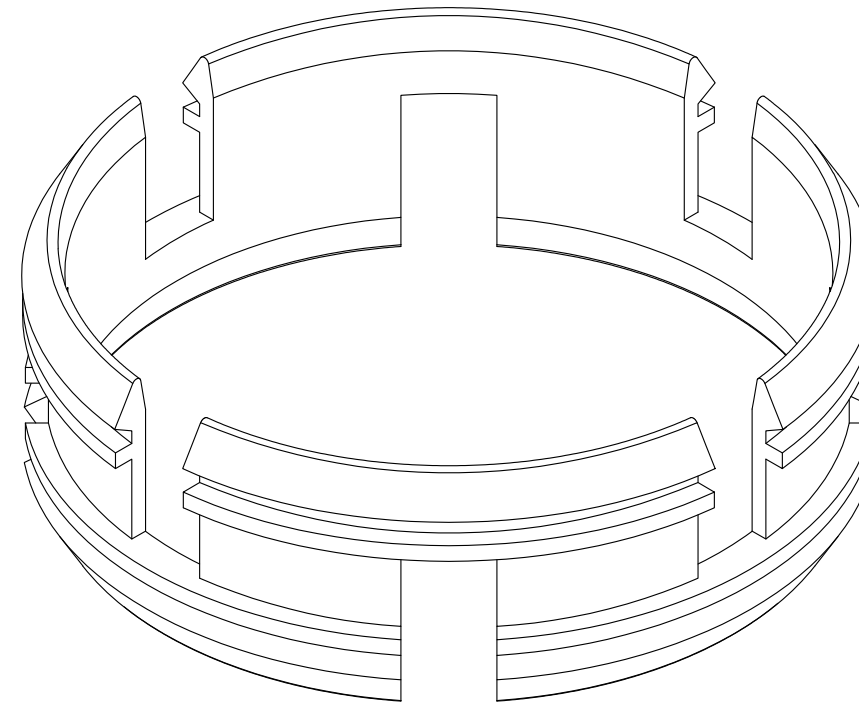
ELECTRONIC FILE LOCATION: I:\VSL_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Segmental Duct Coupler



TOP VIEW



SIDE VIEW



3D VIEW

NOTE: THIS IS A TEMPORARY PART.

DESCRIPTION	MATERIAL	INVENTORY #
100MM SPIDER CLIP	HDPE PER ASTM D3350	02SC10004

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APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
DESCRIPTION	BY	CHK
NO		DATE

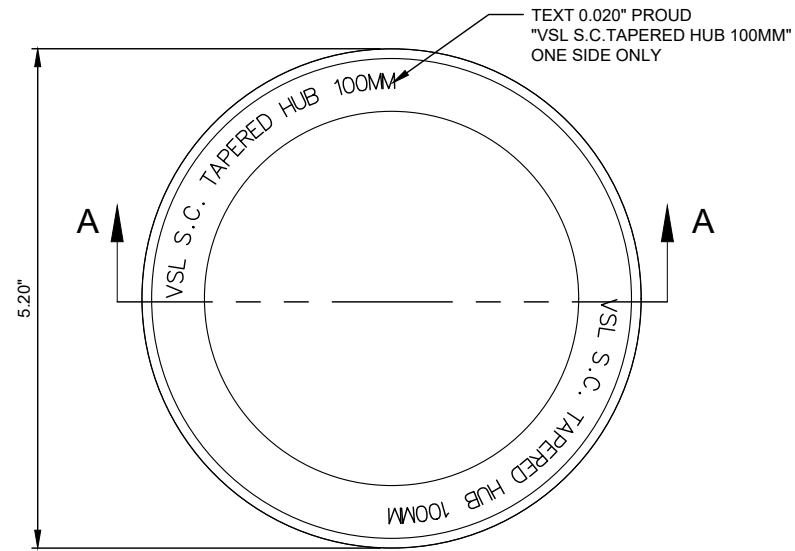
structural TECHNOLOGIES

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 10150 OLD COLUMBIA RD
 COLUMBIA, MD 21046

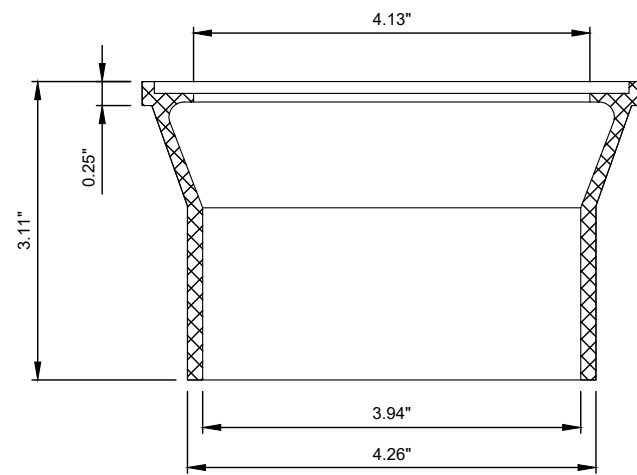
PHONE: (410) 850-7000
 structuraltechnologies.com

PROJECT INFORMATION:	SYSTEM DRAWING
TITLE:	100MM SPIDER CLIP
PROJECT NO:	SYSTEM
SCALE:	NTS
SHEET NO:	C819

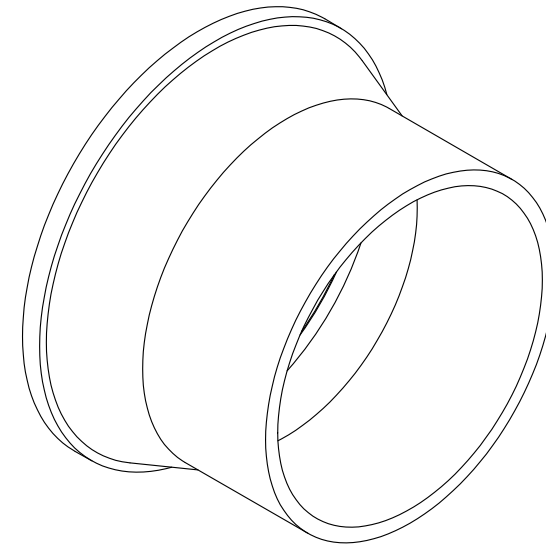
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TOP VIEW



SECTION A-A



3D VIEW

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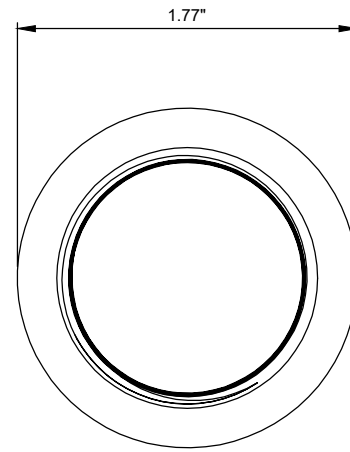
DESCRIPTION	MATERIAL	INVENTORY #
4" SC BLK - TAPERED HUB PE	HDPE BLACK PER ASTM D3350	02SC10011

APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
DESCRIPTION	BY	CHK
NO		DATE

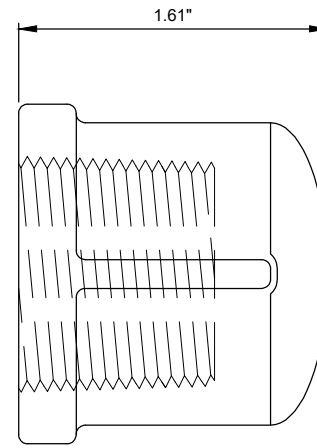
structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
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 PHONE: (410) 850-7000
 structuraltechnologies.com

PROJECT INFORMATION:	SYSTEM DRAWING
TITLE:	4" SC BLK - TAPERED HUB PE
PROJECT NO:	SYSTEM
SHEET NO:	NTS
	C861

ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



END VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

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DESCRIPTION	MATERIAL	INVENTORY #
1" NPT PP CAP	BLACK POLYPROPYLENE PER ASTM D4101	02DT01941

PROJECT INFORMATION:

SYSTEM DRAWING

1" NPT PP CAP

PROJECT NO:
SYSTEM

SCALE:
NTS

SHEET NO:

C877

NO

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DESCRIPTION

BY

CDL ZX

CHK

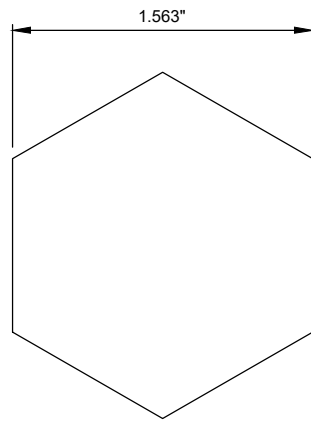
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29JAN2020

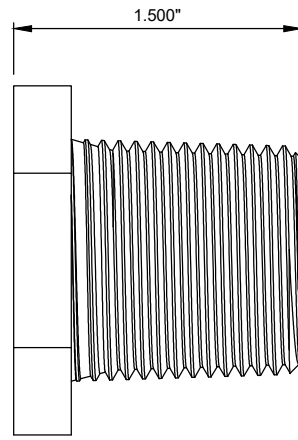
structural TECHNOLOGIES

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
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ELECTRONIC FILE LOCATION: I:\S1\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



END VIEW



SIDE VIEW

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960.

DESCRIPTION	MATERIAL	INVENTORY #
1" NPT PP PLUG	BLACK POLYPROPYLENE PER ASTM D4101	02DT01948

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PROJECT INFORMATION:

SYSTEM DRAWING

1" NPT PP PLUG

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C879

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

BY

CDL ZX

CHK

DATE

29JAN2020

structural TECHNOLOGIES

Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
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ELECTRONIC FILE LOCATION: I:\VSI_System Drawings\Work In Progress Drawings\Florida DOT Test 2017\Flexible Filler Accessories



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DESCRIPTION	MATERIAL	INVENTORY #	DIM. "A"	DIM. "B"	MIN. BEND RADIUS
4" HDPE PIPE DR-17	HDPE BLACK PER ASTM D3350	-	3.939"	4.5"	20'-0"

PROJECT INFORMATION:

SYSTEM DRAWING

4" HDPE PIPE

PROJECT NO:
SYSTEM

SHEET NO:

SCALE:
NTS

C882B

NO

APPROVED FOR CONSTRUCTION

DESCRIPTION

CDL ZX

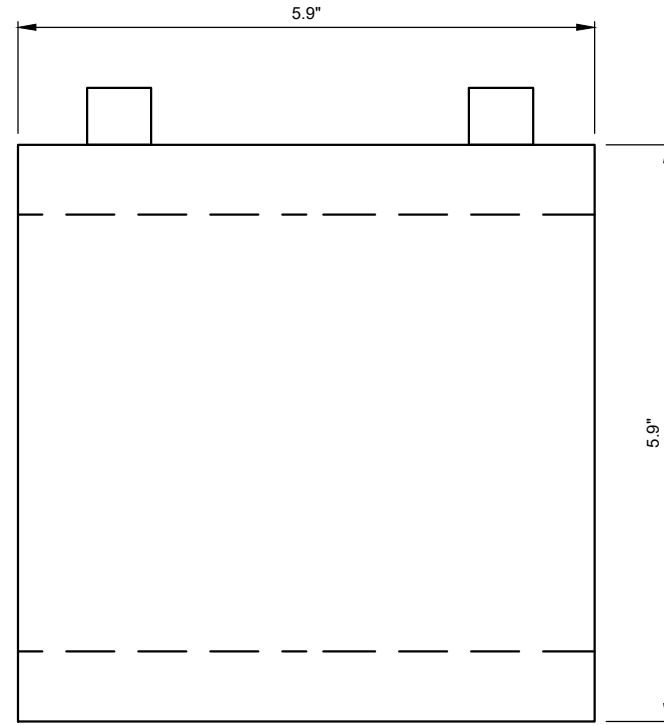
BY

CHK

DATE

29JAN2020

ELECTRONIC FILE LOCATION: I:\SVI\System Drawings\Work In Progress Drawings\Florida DOT Test 2017\EC 6-19 Flexible Filler Submittal



SIDE VIEW

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DESCRIPTION	MATERIAL	INVENTORY #
4" ELECTROFUSION COUPLER	COMPOSITE	02EF0004

PROJECT INFORMATION:

PROJECT NO:	SYSTEM
TITLE:	4" ELECTROFUSION COUPLER
SHEET NO:	C895
SCALE:	NTS

structural TECHNOLOGIES
 Dallas, TX / Washington DC / Denver, CO / Pompano Beach, FL
 STRUCTURAL TECHNOLOGIES, LLC 10150 OLD COLUMBIA RD
 CORPORATE OFFICE COLUMBIA, MD 21046
 PHONE: (410) 850-7000
 structuraltechnologies.com

NO	APPROVED FOR CONSTRUCTION	CDL ZX	29JAN2020
NO	DESCRIPTION	BY	CHK
			DATE