TENDON OVERALL ASSEMBLY

NOTES:
1. CONNECTIONS & MATERIALS SHOWN IN EITHER CONFIGURATION CAN BE INTERCHANGEABLE, OMITTING ANY CONNECTIONS NOT REQUIRED FOR A PARTICULAR JOB.
2. COLD/FIELD MINIMUM BEND RADIUS FOR 4" HDPE PIPE IS 20'-0".
3. HOT/PRE-BENT MINIMUM BEND RADIUS FOR 4" HDPE PIPE WITH 19 STRANDS IS 10'-0". REFER TO HOPE PIPE HEATED PRE-BENDING PROCEDURE.
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 SPECIFIC PROJECT REQUIREMENTS AND THE FDOT SPECIFICATIONS.

1. ASSEMBLE TRUMPET INTO THE BEARING PLATE. APPLY 1/4" BONDUIT ALL AROUND OF BEARING PLATE PRIOR TO INSTALLING TRUMPET USE 8101 TO ALIGN PLATE AND TRUMPET. INSERT TRUMPET UNTIL LOCKING TABS ENGAGE.

2. LIGHTLY GREASE ANCHORAGE CAP BOLTS. USE MOUNTING HOLES IN BEARING PLATE TO MOUNT BEARING PLATE ASSEMBLY TO FORM SECURE BEARING PLATE ASSEMBLY WITH ANCHORAGE CAP BOLTS USE CARE NOT TO DAMAGE THREADS.

3. INSTALL PIPE FOR PORT CONNECTIONS. SEEL ALL TEMPORARY CONNECTIONS WITH PIPE DOPES/SILICONE GREASE (BY OTHERS) AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR SEALANT.

4. INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPES/SILICONE GREASE (BY OTHERS) AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR SEALANT.

5. SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.

6. PER FOOT SPECIFICATION SECTION 462-2.2.1. A VACUUM TEST IS REQUIRED PRIOR TO CONCRETE PLACEMENT.

7. CONCRETE PLACEMENT OCCURS BY OTHERS.

8. ELONGATION SHOULD BE WITHIN ±7%.

9. INSTALL AND SECURE SPIRAL.

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

11. USE CARE NOT TO DAMAGE THREADS.

12. INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPES/SILICONE GREASE (BY OTHERS) AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR SEALANT.

13. SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.

14. PER FOOT SPECIFICATION SECTION 462-2.2.1. A VACUUM TEST IS REQUIRED PRIOR TO CONCRETE PLACEMENT.

15. CONCRETE PLACEMENT OCCURS BY OTHERS.

16. ELONGATION SHOULD BE WITHIN ±7%.

17. INSTALL AND SECURE SPIRAL.

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

19. USE CARE NOT TO DAMAGE THREADS.

20. INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPES/SILICONE GREASE (BY OTHERS) AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR SEALANT.

21. SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.

22. PER FOOT SPECIFICATION SECTION 462-2.2.1. A VACUUM TEST IS REQUIRED PRIOR TO CONCRETE PLACEMENT.

23. CONCRETE PLACEMENT OCCURS BY OTHERS.

24. ELONGATION SHOULD BE WITHIN ±7%.

25. INSTALL AND SECURE SPIRAL.

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

27. USE CARE NOT TO DAMAGE THREADS.

28. INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPES/SILICONE GREASE (BY OTHERS) AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR SEALANT.

29. SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.

30. PER FOOT SPECIFICATION SECTION 462-2.2.1. A VACUUM TEST IS REQUIRED PRIOR TO CONCRETE PLACEMENT.

31. CONCRETE PLACEMENT OCCURS BY OTHERS.

32. ELONGATION SHOULD BE WITHIN ±7%.

33. INSTALL AND SECURE SPIRAL.

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

35. USE CARE NOT TO DAMAGE THREADS.

36. INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPES/SILICONE GREASE (BY OTHERS) AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR SEALANT.

37. SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.

38. PER FOOT SPECIFICATION SECTION 462-2.2.1. A VACUUM TEST IS REQUIRED PRIOR TO CONCRETE PLACEMENT.

39. CONCRETE PLACEMENT OCCURS BY OTHERS.

40. ELONGATION SHOULD BE WITHIN ±7%.

41. INSTALL AND SECURE SPIRAL.

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

43. USE CARE NOT TO DAMAGE THREADS.

44. INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPES/SILICONE GREASE (BY OTHERS) AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR SEALANT.

45. SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.

46. PER FOOT SPECIFICATION SECTION 462-2.2.1. A VACUUM TEST IS REQUIRED PRIOR TO CONCRETE PLACEMENT.

47. CONCRETE PLACEMENT OCCURS BY OTHERS.

48. ELONGATION SHOULD BE WITHIN ±7%.

49. INSTALL AND SECURE SPIRAL.

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

51. USE CARE NOT TO DAMAGE THREADS.

52. INSTALL FILLER PORT CONNECTIONS. SEAL ALL TEMPORARY CONNECTIONS WITH PIPE DOPES/SILICONE GREASE (BY OTHERS) AND SEAL ALL PERMANENT CONNECTIONS WITH BONDUIT OR SIMILAR SEALANT.

53. SECURE DUCT SUPPORTS @ 2' MAX. INSERT MANDRELS INTO TRUMPETS.
NOTES:

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

ELEVATION VIEW

ITEM | QTY | DESCRIPTION | MATERIAL | DWG # |
--- | --- | --- | --- | --- |
1 | 2 | 4" HDPE PIPE DR-17 | HDPE BLACK PER ASTM D350 C882B | 12002B |
TRUMPET TO HDPE PIPE ASSEMBLY

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

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>INVENTORY #</th>
<th>DWG #</th>
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</thead>
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<tr>
<td>1</td>
<td>1</td>
<td>4&quot; HDPE PIPE DR-17</td>
<td>HDPE BLACK PER ASTM D3350</td>
<td></td>
<td>C882B</td>
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<tr>
<td>2</td>
<td>1</td>
<td>ECI 6-19 TRUMPET</td>
<td>HDPE BLACK PER ASTM D3350</td>
<td>02884322</td>
<td>C76</td>
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</table>
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
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.

<table>
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<th>DWG #</th>
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<td>3</td>
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<td>CAST IRON GR80-55-06 PER ASTM A536</td>
<td>GD701094</td>
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<td>GD701963</td>
<td>C746</td>
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<td>BUNTING 12 PER FOOT SEE TABLE 2.1.1.1</td>
<td>GD706030</td>
<td>C755</td>
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<td>6</td>
<td>1</td>
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<td>SCH 40 STEEL</td>
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<td>C749</td>
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<tr>
<td>7</td>
<td>1</td>
<td>1&quot; NPT PP CAP</td>
<td>BLACK POLYPROPYLENE PER ASTM D4101</td>
<td>GD701049</td>
<td>C877</td>
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<tr>
<td>8</td>
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<td>3/16&quot; PAN HEAD SCREW</td>
<td>316 STAINLESS STEEL PER ASTM A276</td>
<td>GD700701</td>
<td>A337</td>
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<td>9</td>
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<td>C749</td>
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<tr>
<td>11</td>
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<td>1/2&quot; FNPT X 1/2&quot; NBPT STEEL ELBOW</td>
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<td>C749</td>
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<td>1/2&quot; NPT FF COUPLER</td>
<td>SCH 40 STEEL</td>
<td>GD701069</td>
<td>C749</td>
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</table>

SEE SHEET A337 FOR ANCHORAGE CAP ALTERNATIVE VENTING DETAILS.

EPOXY GROUT PURE-BACK AREA (TYPICAL) REFER TO FOOT STANDARD PLANS INDEX 462-003 FOR POST-TENSIONING ANCHORAGE AND TENSION FILLING DETAILS.

SEE SHEET A337 FOR ANCHORAGE CAP ALTERNATIVE VENTING DETAILS.

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

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

**STEP 2**

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

**STEP 3**

1. FOLLOW HEAT SHRINK INSTALLATION INSTRUCTIONS (PROVIDED AS A SEPARATE APPENDIX).
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

**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.

**DESCRIPTION**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>MATERIAL DESCRIPTION</th>
<th>MAT</th>
<th>INVENTORY #</th>
<th>DWG #</th>
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<tr>
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<td>-</td>
<td>1/4&quot; TUBE PIPE (SIDE VARY)</td>
<td>HDPE BLACK PER ASTM D3350</td>
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<td>3/4&quot; FNPT SMOOTH GROUT PORT</td>
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<td>STEEL 1/4 TURN BALL VALVE</td>
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<td>RIBELED CAP 3/4&quot; FNPT</td>
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<td>10</td>
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<td>BONDUIT</td>
<td>-</td>
<td>-</td>
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</table>
### Item 1A
1 ECI 6-19 Anchorage Cap W/ 1/4" NPT Horizontal Port
- Material: ABS per ASTM D4473
- Inventory #: 02GC61902
- DWG #: CSS

### Item 1B
1 ECI 6-19 Anchorage Cap W/ 1/4" NPT Vertical Port
- Material: ABS per ASTM D4473
- Inventory #: 02GC61903
- DWG #: CSS

### Item 3
1 ECI 6-19 Bearing Plate W/ 1" NTP Port (Galvanized) Per ASTM A123
- Material: Iron Gr 86-55-06 Per ASTM A536
- Inventory #: 02BP6038V
- DWG #: C738

### Item 4
1 Set 1/2"-13 Threaded Rod X 7"
- Material: (316L) Stainless Per ASTM F593
- Inventory #: 02WX5033D
- DWG #: A441

### Item 5
1 Set 1/2"-13 Nut
- Material: (316L) Stainless Per ASTM A240
- Inventory #: 02WX5033D
- DWG #: A441

### Item 6
1 Set 1/2" Washer
- Material: (316L) Stainless Per ASTM A240
- Inventory #: 02WX5033D
- DWG #: A441

### Diagram
- CAP TO BEARING PLATE BOLTED ASSEMBLY
- 1/2"-13 Threaded Rod
- 1/2"-13 Nut
- 1/2" Washer
0.6" DIA. MULTI-WEDGES

**SECTION A-A**

**DESCRIPTION**

- **MATERIAL**: 0.6" DIA. MULTIWEDGES
- **INVENTORY #**: 02WG0008

**Dimensions**

- Ø1.125"
- 1.77"

**Notes**

- The shop drawings illustrate the details of the Structural Technologies, LLC post-tensioning system. They were prepared in accordance with the structural design provided to Structural Technologies, LLC by the project owner or its representative. Structural Technologies, LLC took no part in the preparation or review of said structural design and 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.
SECTION A-A

SECTION B-B

FRONT VIEW

MANUFACTURING MONTH MARK

MANUFACTURING YEAR MARK

GATE RELIEF PER MOLD

DETAIL 1

DESCRIPTION

MATERIAL

INVENTORY #

ECI 6-19 ANCHORAGE CAP W/ 1/4" HORIZONTAL PORT

ABS LUSTRAN 633 PER ASTM D4673

02GC61902

5.63"

0.39"

8.78"

11.14"

3.50"

0.38"

5.63"
ECI 6-19 ANCHOR HEAD
IRON GR 80-55-06 PER ASTM A536
GSN9238

DATE CODE, FOUNDRY MARK, AND TYPE "VSL ECI 6-19" STAMPED THIS SURFACE MUST BE Recessed.
HARDNESS TEST

1.30" Ø8.13"
3° FOR 6 EXTERNAL HOLES BETWEEN CORNERS
4° FOR 6 EXTERNAL CORNER HOLES

SECTION A-A

4.13"
3.75"
0.38"

2" FOR 6 HORIZONTAL HOLES
3.38" Ø5.29"
0.38" Ø8.00"
SECTION A-A

SIDE VIEW

DETAIL A

ECI 6-19 TRUMPET

DESCRIPTION MATERIAL INVENTORY #

ECI 6-19 TRUMPET HDPE BLACK PER ASTM D3350 02BP4322

ECI 6-19 TRUMPET - Trumpet Fab Per Draft

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.
VSL POST TENSIONING 0.6" BARE STRAND

DESCRIPTION
LOW-RELAXATION STEEL, SEVEN WIRE STRAND PER ASTM A416, 270KSI

MATERIAL

INVENTORY #
VA22500013

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 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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**ECI 6-19**

**DESCRIPTION**

**ITEM**

1. ECI 6-19 Spiral, $5500 (dia. 17", 2" pitch, 11 1/2 turns)
   - Material: Steel GR60 per ASTM A615
   - Inventory #: 02BP0093

2. ECI 6-19 Spiral, $5500 (dia. 15", 2" pitch, 10 1/2 turns)
   - Material: Steel GR60 per ASTM A615
   - Inventory #: 02BP0094

**NOTE:**

1. These spirals are to be in accordance with the approved shop drawings and contract drawings.
2. Concrete strength shown in spiral name as #XXXX where # = PSI.
DESCRIPTION: 1/4" NPT PE PLUG

MATERIAL: HDPE BLACK PER ASTM D3350

INVENTORY #: 02DT01919

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION #0
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<td>RIBBED CAP W/ 3/4&quot; FNPT</td>
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NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960

TODO: Add any additional notes or specifications as needed.
3/4" NPT STEEL NIPPLE

MATERIAL: SCH 40 STEEL

INVENTORY #: 3

SIDE VIEW

VARES BY PROJECT
DESCRIPTION | MATERIAL | INVENTORY #
--- | --- | ---
1" NPT STEEL NIPPLE | SCH 40 STEEL | -

SIDE VIEW

VARIES BY PROJECT
ECI 6-19 BEARING PLATE W/ 1" NPT PORT GALVANIZED PER ASTM A123
C738

DETAIL 1

SECTION A-A

LETTERING - DATE CODE, FOUNDRY MARK, AND HEAT # "VSL ECI 6-19" STAMP "TF"

LETTERING REVERSE SIDE, SEE DETAIL 1

SECION B-B

1/2"-13 TAPPED HOLE (TYP. 4 PLACES)

1" NPT THREADED PORT

HARDNESS TEST

BACK VIEW

SECTION A-A

1" NPT THREADED PORT

1" NPT THREADED PORT

4.11"

0.48"

0.97"

4.46"
**PROJECT INFORMATION:**

- **I:** VSL System Drawings
- **Work In Progress Drawings**
- **Work In Progress Drawings**
- **Florida DOT Test 2017**
- **ECI 6-19 Flexible Filler Submittal**

**ELECTRONIC FILE LOCATION:**

- **FILE NAME:** C740 6-19 Anchorage Cap W 1/4" Vertical Port FDOT.dwg
- **12:33 PM 29Jan2020**

**TITLE:** SYSTEM DRAWING

**PROJECT NO:**

**SCALE:**

- **N**
- **T**
- **S**

**SYSTEM:**

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

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 the 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.
NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 980.
1/4 TURN BALL VALVE W/ 1/4" FNPT

NOTE: THIS IS A TEMPORARY PART.
<table>
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<th>STEEL 3/4&quot; TURN BALL VALVE W/ 3/4&quot; F NPT</th>
<th>SCH 40 STEEL</th>
<th>2DT01925</th>
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NOTE: THIS IS A TEMPORARY PART.
DESCRIPTION | MATERIAL | INVENTORY #
--- | --- | ---
1/4" NPT STEEL NIPPLE | SCH 40 STEEL | -
**DESCRIPTION**

3/4" FNPT X MNPT STEEL ELBOW

**MATERIAL**

SCH 40 STEEL

**INVENTORY #**

2DT01954

---

**SIDE VIEW**

---

**END VIEW**

---

**DIMENSIONS**

- 2.56"
- 1.56"
DESCRIPTION: 1" FNPT X MNPT STEEL ELBOW
MATERIAL: SCH 40 STEEL
INVENTORY #: 02DT01955

SIDE VIEW

END VIEW

1 15/16"
2 9/16"
1 5/8"
KLNN-115 9" HEAT SHRINK SLEEVE
POLYOLEFIN PER TABLE 960 2.2.1.8-1
0 2DT0514

NOTE: REFERENCE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS IN THE APPENDIX.
C877 1in NPT PP Cap

DESCRIPTION: 1" NPT PP CAP

MATERIAL: BLACK POLYPROPYLENE PER ASTM D4101

INVENTORY #: 02DT01941

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION #60
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 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.

NOTE: MATERIAL MEETS OR EXCEEDS FDOT SPECIFICATION 960.
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<th>DIM. &quot;B&quot;</th>
<th>MIN. BEND RADIUS</th>
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