

ROOF ANCHOR INSTALLATION & CERTIFICATION

FOR

SOUTH HAMPTON

KINGSTON PLANTATION

MYRTLE BEACH, SOUTH CAROLINA



SUBMITTED BY

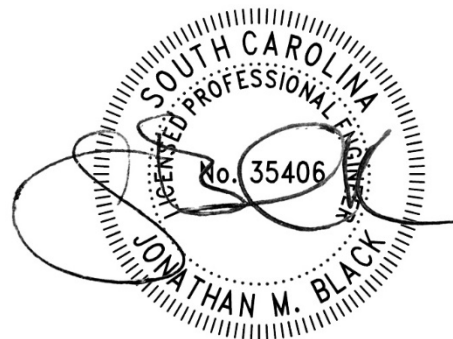




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SECTION I

SCOPE OF WORK



SCOPE OF WORK

PREPARED FOR (CLIENT): SOUTH HAMPTON PROPERTY OWNERS ASSOCIATION
PREPARED BY: MUHLE CONSULTING
DATE: 16 OCTOBER 2019
JOB #: 18-LTL-002
REVISION #: ZERO (0)
PROPERTY: SOUTH HAMPTON
SUBJECT: ROOF ANCHOR INSTALLATION & CERTIFICATION
ENGINEER OF RECORD: JONATHAN BLACK, PE

THE FOLLOWING DOCUMENT COMPRISES THE INSTALLATION, INSPECTION, TESTING AND CERTIFICATION OF ROOF ANCHORS INSTALLED ON THE ABOVE-REFERENCED PROPERTY.

REGULATIONS, CODES & STANDARDS

THE APPLICABLE REGULATION, CODES AND STANDARDS GOVERNING THE INSPECTION, TESTING AND CERTIFICATION ARE AS FOLLOWS:

- OSHA
 - o PART 1910.21, SUBPART D (WALKING -WORKING SURFACES)
 - o PART 1910.66, SUBPART F (POWERED PLATFORMS)
 - o APPENDIX C TO PART 1910.66, PERSONAL FALL ARREST SYSTEM (SECTION I-MANDATORY)
 - o PART 1926.50, SUBPART M (FALL PROTECTION)
- ANSI/IWCA 1-14.1-2001

THE APPLICABLE INSPECTION REQUIREMENTS OF THE ABOVE REFERENCED OSHA REGULATIONS ARE SUMMARIZED AS FOLLOWS:

- BEFORE BEING PLACED IN INITIAL SERVICE
- FOLLOWING ANY MAJOR ALTERATION TO AN EXISTING INSTALLATION
- AT INTERVALS NOT EXCEEDING 12 MONTHS
- AT INTERVALS SPECIFIED BY THE MANUFACTURER/SUPPLIER, BUT NOT EXCEEDING 12 MONTHS
- THE BUILDING OWNER SHALL KEEP A CERTIFICATION RECORD OF EACH INSPECTION AND TEST REQUIRED. THE CERTIFICATION RECORD SHALL INCLUDE THE DATE OF THE INSPECTION, THE SIGNATURE OF THE PERSON WHO PERFORMED THE INSPECTION, AND THE NUMBER, OR OTHER IDENTIFIER, OF THE BUILDING SUPPORT STRUCTURE AND EQUIPMENT WHICH WAS INSPECTED. THIS CERTIFICATION RECORD SHALL BE KEPT READILY AVAILABLE FOR REVIEW BY THE ASSISTANT SECRETARY OF LABOR OR THE ASSISTANT SECRETARY'S REPRESENTATIVE AND BY THE EMPLOYER.

THE APPLICABLE REQUIREMENTS OF THE ABOVE REFERENCED ANSI/IWCA 1-14.1-2001 STANDARD ARE SUMMARIZED AS FOLLOWS:

- ANCHORAGES SHALL BE CERTIFIED BEFORE INITIAL USE AND SHALL BE PROVIDED WITH A RATED LOAD AND INITIAL CERTIFICATION BY THE MANUFACTURER
- ANCHORAGES SHALL BE INSPECTED ANNUALLY BY A QUALIFIED PERSON
- ANCHORAGES SHALL BE INSPECTED AT INTERVALS SPECIFIED BY THE MANUFACTURER (NOT TO EXCEED 12 MONTHS)
- ANCHORAGES SHALL BE INSPECTED BY A COMPETENT PERSON BEFORE EACH USE



- ANCHORAGES SHALL BE RE-CERTIFIED DURING RE-ROOFING, RENOVATING (PERTINENT TO THE WINDOW CLEANING SYSTEM) OR AT PERIODS NOT TO EXCEED 10 YEARS
- CERTIFICATION AND RE-CERTIFICATION OF ANCHORAGES SHALL BE PERFORMED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER
- A RECORD OF ALL INSPECTIONS AND CERTIFICATIONS SHALL BE DOCUMENTED IN A DEDICATED LOG BOOK.

ROOF ANCHOR DESIGN

THE ROOF ANCHOR INSTALLED WAS DESIGNED TO SUPPORT SUSPENDED EQUIPMENT OR AN INDEPENDENT LIFELINE (SEE DRAWING #18-LTL-002-1, SECTION III & FIGURE #1).

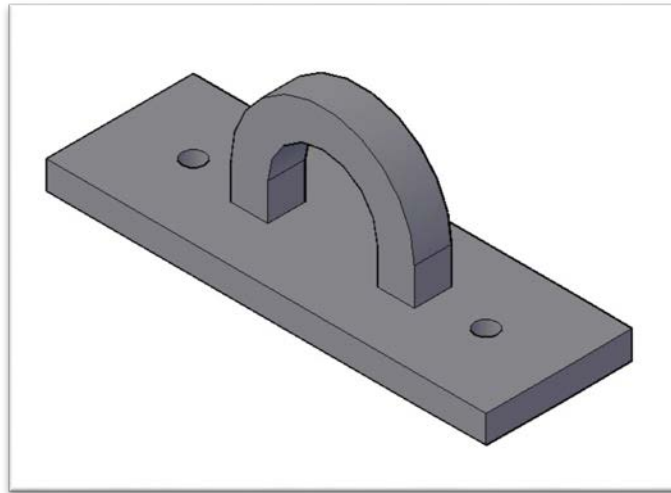


FIGURE #1: ROOF ANCHOR

ROOF ANCHOR DESIGNATION

IN ORDER TO MAINTAIN ACCURATE RECORDS OF INSPECTION AND TESTING, THE ROOF ANCHORS HAD TO BE DISTINGUISHABLE FROM ONE ANOTHER. THIS WAS ACCOMPLISHED BY THE APPLICATION OF A UNIQUE IDENTIFICATION TAG (SEE DRAWING #18-LTL-002-5, SECTION III & FIGURE #2).



FIGURE #2: ROOF ANCHOR IDENTIFICATION TAG

INSTALLATION

ALL ROOF ANCHORS WERE INSTALLED USING SIMPSON STRONG-TIE TITEN HD® ½x4" MODEL No. THD50400H (ICC-ES ESR-2713) FASTENERS WITH MINIMUM 3-1/4" EMBEDMENT. TWO FASTENERS WERE INSTALLED PER ROOF ANCHOR (SEE DRAWING #18-LTL-002-3, SECTION III).



TWO METHODS WERE EMPLOYED TO ENSURE THE EXISTING WATERPROOF MEMBRANE ON THE BUILDING ROOF MAINTAINED ITS INTEGRITY.

THE FIRST INSTALLATION METHOD INVOLVED REMOVAL OF THE EXISTING WATERPROOF MEMBRANE AND BACKER BOARD 1/8" BEYOND ALL EDGES OF THE ROOF ANCHOR. THE ENTIRE AREA WAS CLEANED USING DENATURED ALCOHOL TO ENSURE THE ADHESION OF THE APPLIED SEALANTS. FIRESTONE ULTRAPLY TPO GENERAL PURPOSE SEALANT (W56-TPO-3002) WAS THEN APPLIED BETWEEN THE BACKER BOARD AND TPO MEMBRANE TO SEAL THE OPENING CREATED. A 6" WIDE STRIP OF TPO PRESSURE-SENSITIVE SEALANT WAS THEN APPLIED OVER THE OPENING. THE CORNERS OF THE ROOF ANCHORS APPLIED USING THIS METHOD WERE EASED TO ENSURE THEY DID NOT PUNCTURE THE TPO PRESSURE-SENSITIVE SEALANT. SLITS WERE MADE IN THE TPO PRESSURE-SENSITIVE SEALANT TO ALLOW THE FASTENERS TO PENETRATE AND A BEAD OF FIRESTONE ULTRAPLY TPO GENERAL PURPOSE SEALANT WAS APPLIED AROUND THE EXTERIOR OF THE FASTENER OPENINGS. THE ROOF ANCHORS WERE THEN INSTALLED BY INSTALLING THE FASTENERS PER THE MANUFACTURER'S SPECIFICATIONS. THIS METHOD WAS EMPLOYED IN LOCATIONS WHERE THE EXISTING TPO MEMBRANE HAD PULLED AWAY FROM THE BACKER BOARD.

THE SECOND INSTALLATION METHOD INVOLVED DRILLING THROUGH THE EXISTING TPO MEMBRANE AND BACKER BOARD. SOLAR SEAL #900 WAS THEN APPLIED AROUND THE FASTENER HOLE LOCATIONS. THE ROOF ANCHORS WERE THEN INSTALLED BY INSTALLING THE FASTENERS PER THE MANUFACTURER'S SPECIFICATIONS. THIS METHOD WAS EMPLOYED IN LOCATIONS WHERE THE EXISTING TPO MEMBRANE WAS WELL ADHERED TO THE BACKER BOARD.

INSPECTION & TESTING

INSPECTION OF THE ROOF ANCHORAGE SYSTEM CONSISTED OF A VISUAL INSPECTION. AN INITIAL INSPECTION WAS PERFORMED PRIOR TO APPLICATION OF THE TEST LOAD. A CONTROLLED TEST LOAD OF FIVE THOUSAND POUNDS (5,000 LBS) WAS THEN APPLIED. THE ROOF ANCHOR WAS MONITORED DURING THE APPLICATION OF THE TEST LOAD. A SUBSEQUENT VISUAL INSPECTION OF THE ROOF ANCHOR WAS THEN PERFORMED TO ENSURE THAT NO DAMAGE OR PERMANENT DEFORMATION RESULTED FROM THE TEST LOAD APPLICATION.

A SUMMARY OF THE TESTING AND INSPECTION PERFORMED IS INCLUDED IN SECTION II.

DRAWING #18-LTL-002-5 PROVIDES A DIAGRAM OF THE TESTING CONFIGURATIONS EMPLOYED (SEE SECTION III). DRAWING #18-LTL-002-6 PROVIDES PHOTOGRAPHIC DOCUMENTATION OF THE INSPECTION AND TESTING PERFORMED (SEE SECTION III).

A CERTIFICATE OF INSPECTION (SEE SECTION IV) AND TESTING (SEE SECTION V) ARE INCLUDED FOR THE ROOF ANCHORS SUMMARIZED IN SECTION II.

CERTIFICATES OF CONFORMANCE AND CALIBRATION ARE PROVIDED FOR THE TESTING EQUIPMENT UTILIZED (SEE SECTION VI).



SECTION II

TESTING & INSPECTION SUMMARY

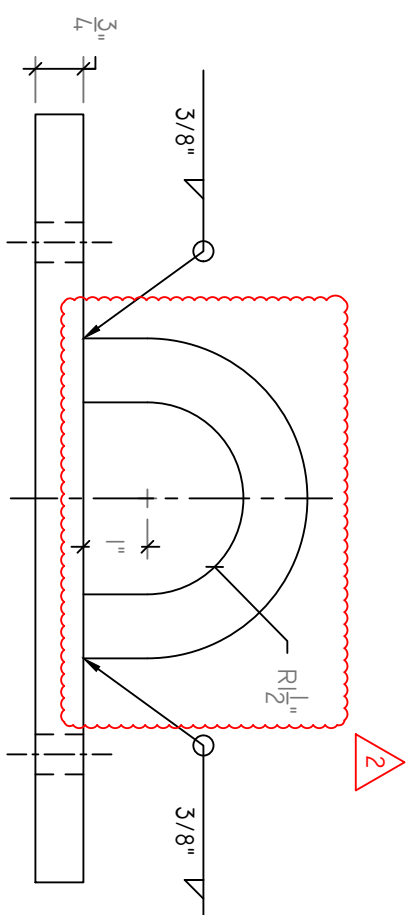
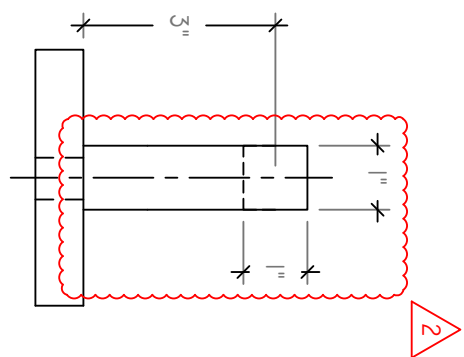
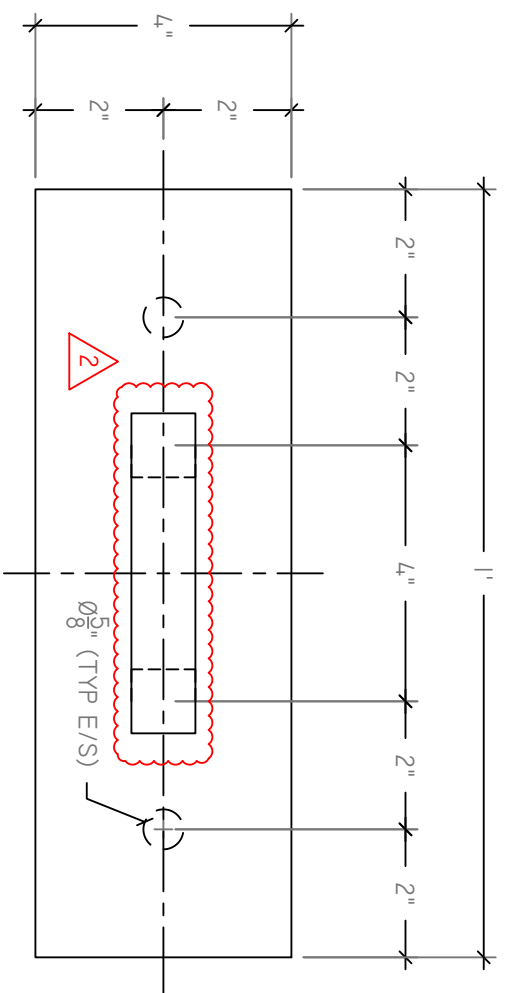
ROOF ANCHOR TESTING & INSPECTION SUMMARY				
ROOF ANCHOR DESIGNATION	TEST CONFIGURATION	PRE-TEST LOAD INSPECTION	TEST LOAD APPLICATION	POST-TEST LOAD INSPECTION
SHRA01	T1	✓	✓	✓
SHRA02	T4	✓	✓	✓
SHRA03	T5	✓	✓	✓
SHRA04	T6	✓	✓	✓
SHRA05	T7	✓	✓	✓
SHRA06	T6	✓	✓	✓
SHRA07	T7	✓	✓	✓
SHRA08	T8	✓	✓	✓
SHRA09	T9	✓	✓	✓
SHRA10	T8	✓	✓	✓
SHRA11	T9	✓	✓	✓
SHRA12	T10	✓	✓	✓
SHRA13	T11, T12	✓	✓	✓
SHRA14	T13	✓	✓	✓
SHRA15	T14	✓	✓	✓
SHRA16	T15	✓	✓	✓
SHRA17	T16	✓	✓	✓
SHRA18	T17	✓	✓	✓
SHRA19	T18	✓	✓	✓
SHRA20	T19	✓	✓	✓
SHRA21	T45	✓	✓	✓
SHRA22	T20, T21	✓	✓	✓
SHRA23	T22	✓	✓	✓
SHRA24	T23	✓	✓	✓
SHRA25	T24	✓	✓	✓
SHRA26	T25	✓	✓	✓
SHRA27	T26	✓	✓	✓
SHRA28	T28	✓	✓	✓
SHRA29	T27	✓	✓	✓
SHRA30	T46	✓	✓	✓
SHRA31	T29	✓	✓	✓
SHRA32	T32	✓	✓	✓
SHRA33	T29, T32	✓	✓	✓
SHRA34	T30, T46	✓	✓	✓
SHRA35	T33	✓	✓	✓
SHRA36	T31	✓	✓	✓
SHRA37	T47	✓	✓	✓
SHRA38	T34	✓	✓	✓
SHRA39	T35	✓	✓	✓
SHRA40	T36	✓	✓	✓
SHRA41	T37	✓	✓	✓

ROOF ANCHOR TESTING & INSPECTION SUMMARY				
ROOF ANCHOR DESIGNATION	TEST CONFIGURATION	PRE-TEST LOAD INSPECTION	TEST LOAD APPLICATION	POST-TEST LOAD INSPECTION
SHRA42	T48	✓	✓	✓
SHRA43	T25	✓	✓	✓
SHRA44	T24	✓	✓	✓
SHRA45	T23	✓	✓	✓
SHRA46	T22	✓	✓	✓
SHRA47	T21	✓	✓	✓
SHRA48	T20, T45	✓	✓	✓
SHRA49	T19	✓	✓	✓
SHRA50	T18	✓	✓	✓
SHRA51	T17	✓	✓	✓
SHRA52	T16	✓	✓	✓
SHRA53	T15	✓	✓	✓
SHRA54	T14, T44	✓	✓	✓
SHRA55	T13, T39	✓	✓	✓
SHRA56	T40	✓	✓	✓
SHRA57	T41	✓	✓	✓
SHRA58	T42, T43	✓	✓	✓
SHRA59	T3	✓	✓	✓
SHRA60	T2	✓	✓	✓
SHRA61	T4	✓	✓	✓
SHRA62	T5	✓	✓	✓
SHRA63	T3	✓	✓	✓
SHRA64	T2	✓	✓	✓
SHRA65	T1	✓	✓	✓
SHRA66	T10	✓	✓	✓
SHRA67	T11	✓	✓	✓
SHRA68	T12	✓	✓	✓
SHRA69	T44	✓	✓	✓
SHRA70	T39	✓	✓	✓
SHRA71	T40	✓	✓	✓
SHRA72	T41	✓	✓	✓
SHRA73	T42	✓	✓	✓
SHRA74	T43	✓	✓	✓
SHRA75	T26, T27	✓	✓	✓
SHRA76	T28	✓	✓	✓
SHRA77	T33, T34	✓	✓	✓
SHRA78	T35, T47	✓	✓	✓
SHRA79	T36, T48	✓	✓	✓
SHRA80	T37	✓	✓	✓
SHRA81	T38	✓	✓	✓

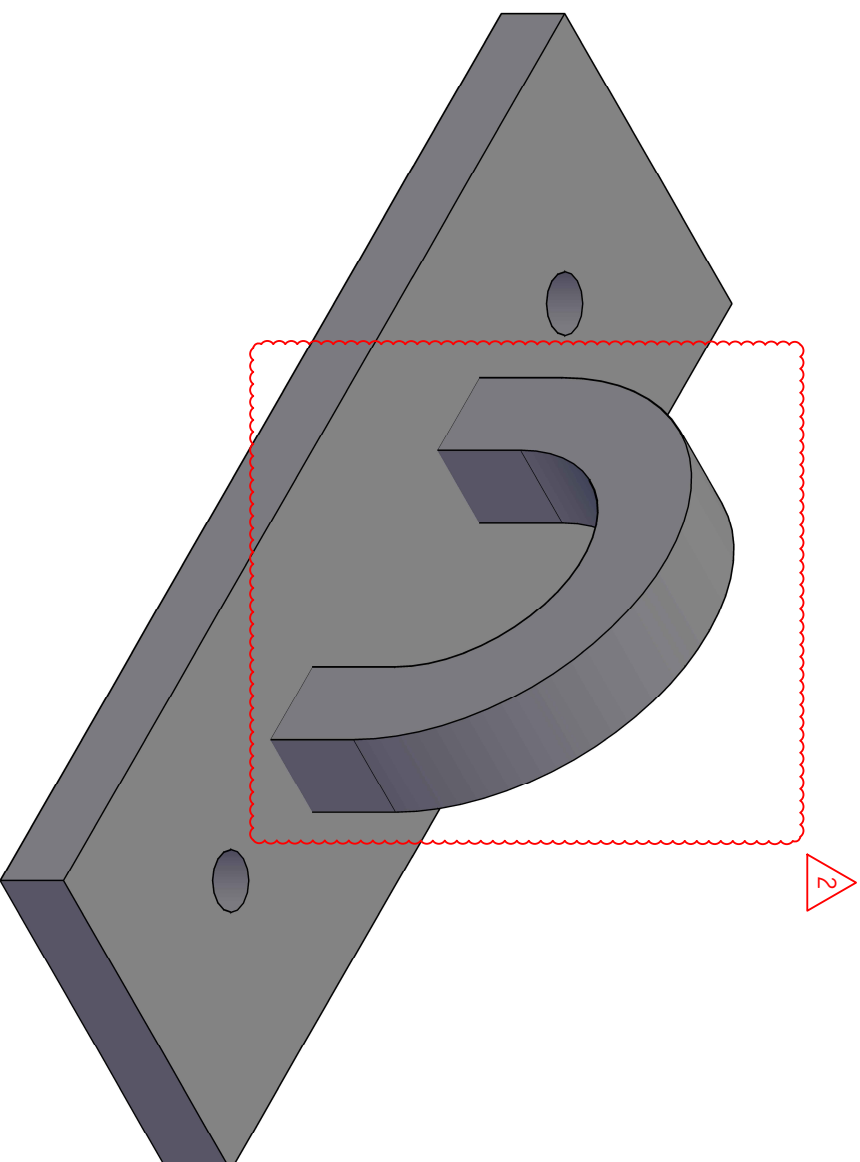


SECTION III

DRAWINGS & DOCUMENTATION

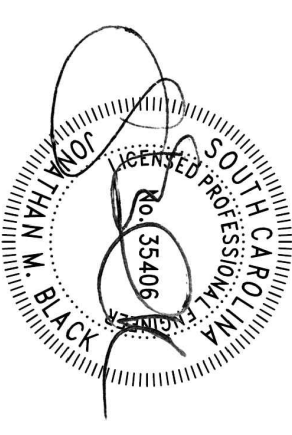


PLAN/ELEVATION VIEWS
SCALE: 1:3



PROJECT #: 18-LTL-002, REV. #0
ISOMETRIC VIEW
SCALE: NTS

- NOTE:
1. ALL MATERIAL TO BE 304 STAINLESS STEEL.
 2. SUBSTITUTION W/ EQUIVALENT MATERIAL (S) IS ACCEPTABLE W/ PRIOR APPROVAL OF MÜHLE CONSULTING.
 3. 308 WELDING FILLER METAL TO BE USED W/ EXCEPTION OF APPROVED ALTERNATE.
 4. WELDING AND NDE PER AWS D1.6.
 5. PREHEAT AS DICTATED BY AWS D1.6. COVER FOR SLOW COOLING. CONTROL HEAT WHEN WELDING.
 6. CONTACT MÜHLE CONSULTING FOR APPROVAL PRIOR TO USE.
 7. GRIND/BREAK ALL SHARP CORNERS/EDGES.
 8. FABRICATION TOLERANCE TO BE 1/16" UNLESS OTHERWISE INDICATED.



2	IFF	JMB	08/21/19
1	IFF	JMB	08/05/19
0	IFF	JMB	07/22/19

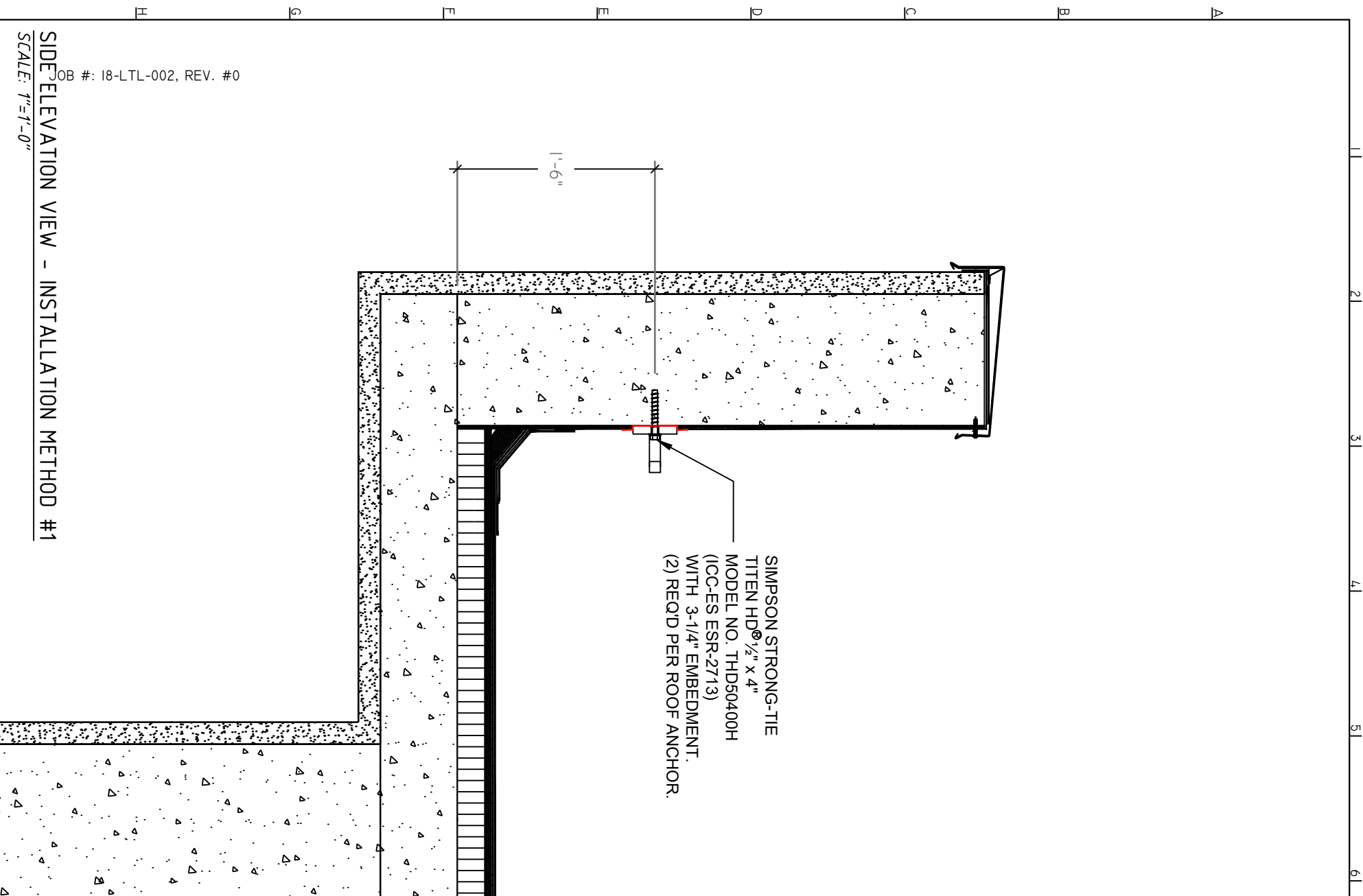
STATUS: ISSUED FOR FABRICATION

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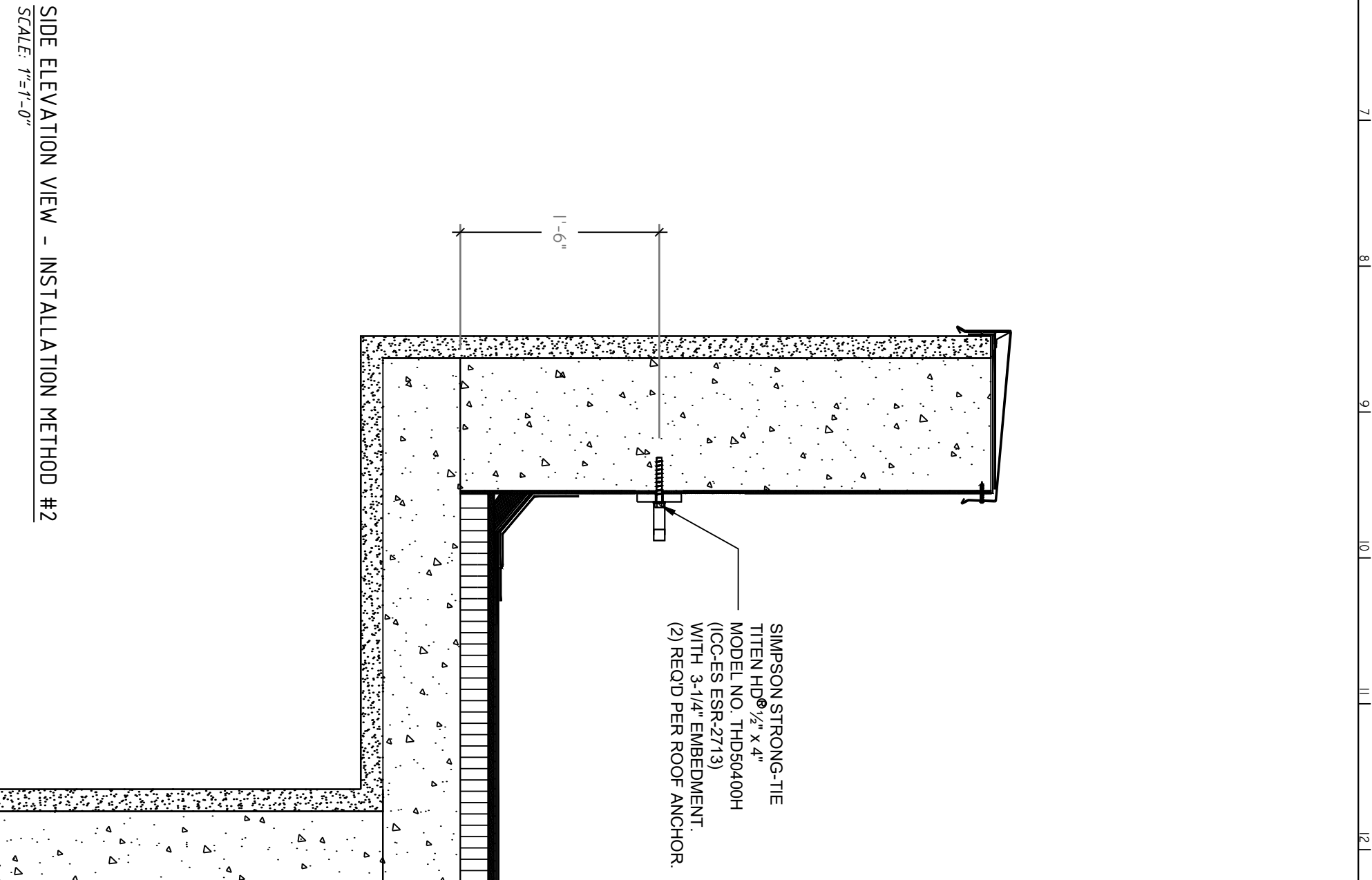
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TITLE:
SOUTH HAMPTON
ROOF ANCHOR

SCALE:	DATE:	DRAWN:	CHECKED:
VARIES	08/21/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	1 OF 1	18-LTL-002-1	



JOB #: 18-LTL-002, REV. #0
SIDE ELEVATION VIEW - INSTALLATION METHOD #1
SCALE: 1"=1'-0"



SIDE ELEVATION VIEW - INSTALLATION METHOD #2
SCALE: 1"=1'-0"

0	IF1	JMB	07/23/19
REVISION:	DESCRIPTION:	BY:	DATE:
STATUS: ISSUED FOR INFORMATION			



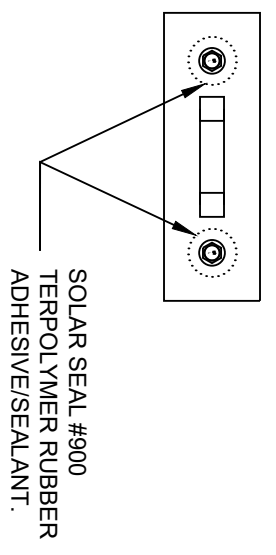
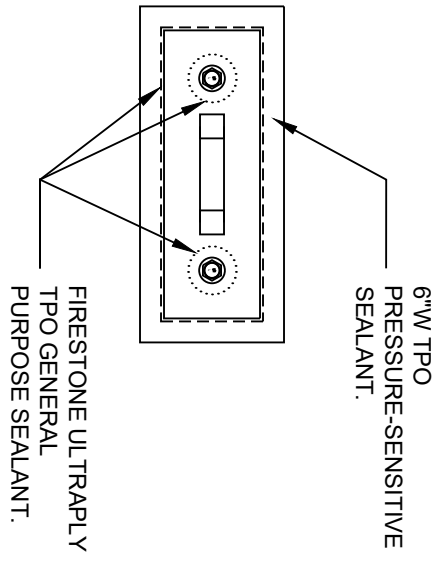
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TITLE:
SOUTH HAMPTON
ROOF ANCHOR INSTALLATION

SCALE:	DATE:	DRAWN:	CHECKED:
VARIES	07/23/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	1 OF 2	18-LTL-002-3	

11 21 31 41 51 61 71 81 91 101 111 121 131 141



0	IF1	JMB	07/23/19
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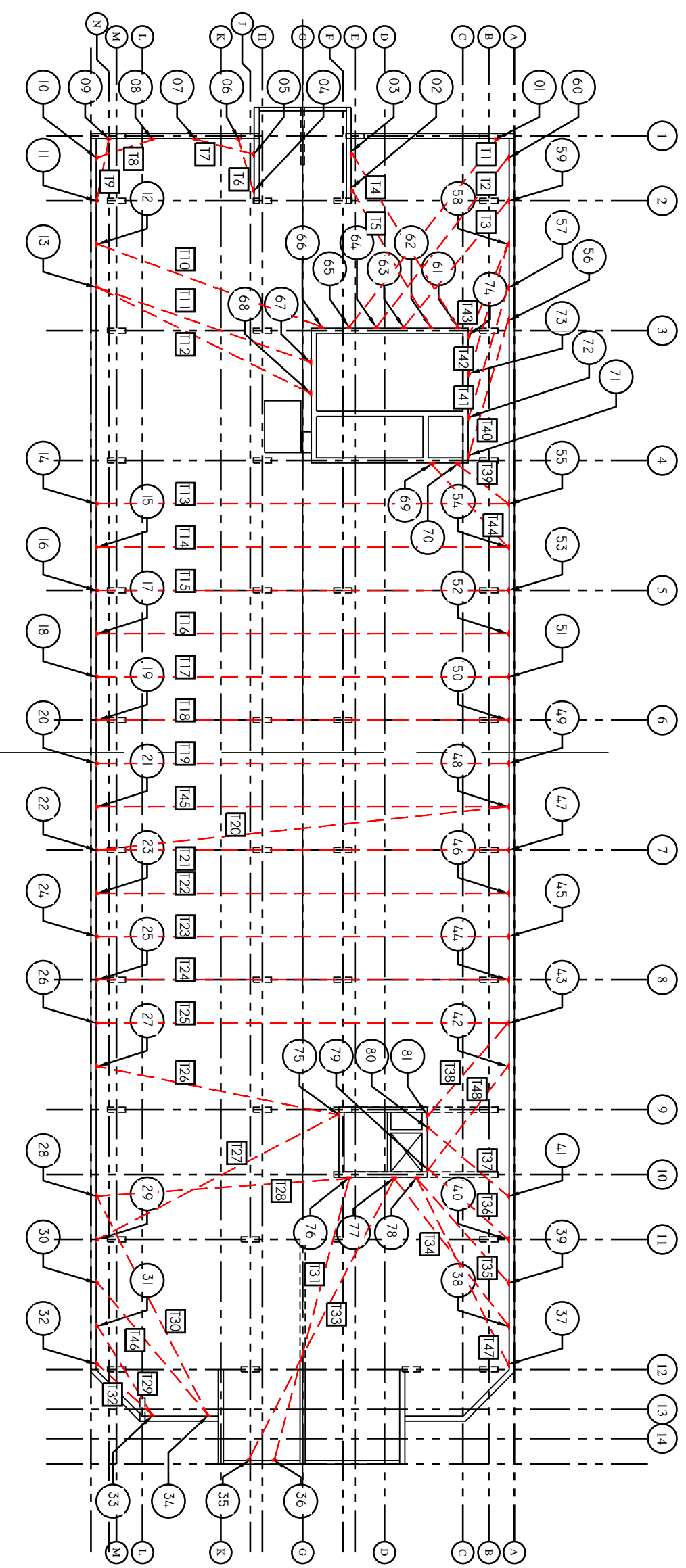
TITLE:
**SOUTH HAMPTON
 ROOF ANCHOR INSTALLATION**

SCALE: VARIES
 DATE: 07/23/19
 DRAWN: JMB
 CHECKED: JMB

PROJECT #: 18-LTL-002
 SHEET #: 2 OF 2
 DRAWING #: 18-LTL-002-3

JOB #: 18-LTL-002, REV. #0
FRONT ELEVATION VIEW - INSTALLATION METHOD #1
 SCALE: 1"=1'-0"

FRONT ELEVATION VIEW - INSTALLATION METHOD #2
 SCALE: 1"=1'-0"



LEGEND	
XX	INDICATES ROOF ANCHOR DESIGNATION.
TX	INDICATES TEST CONFIGURATION DESIGNATION.

NOTE:
 1. ROOF ANCHORS DESIGNATIONS SHOWN TO BE INDIVIDUALLY FIELD DESIGNATED AS FOLLOWS (SEE P.2 FOR TAG DETAIL):
 "ID#: SHRA-XX"

REVISION:	DESCRIPTION:	BY:	DATE:
0	IFC	JMB	09/25/19

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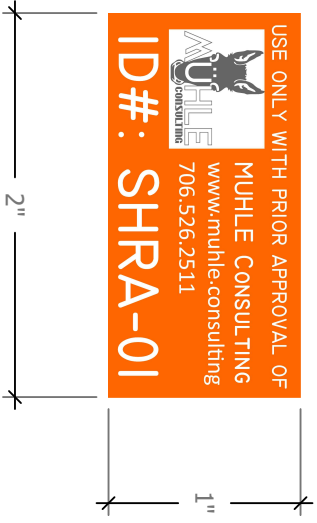
TITLE: SOUTH HAMPTON
 ROOF ANCHOR TESTING DIAGRAM

SCALE:	DATE:	DRAWN:	CHECKED:
VARIES	09/25/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	1 OF 2	18-LTL-002-5	

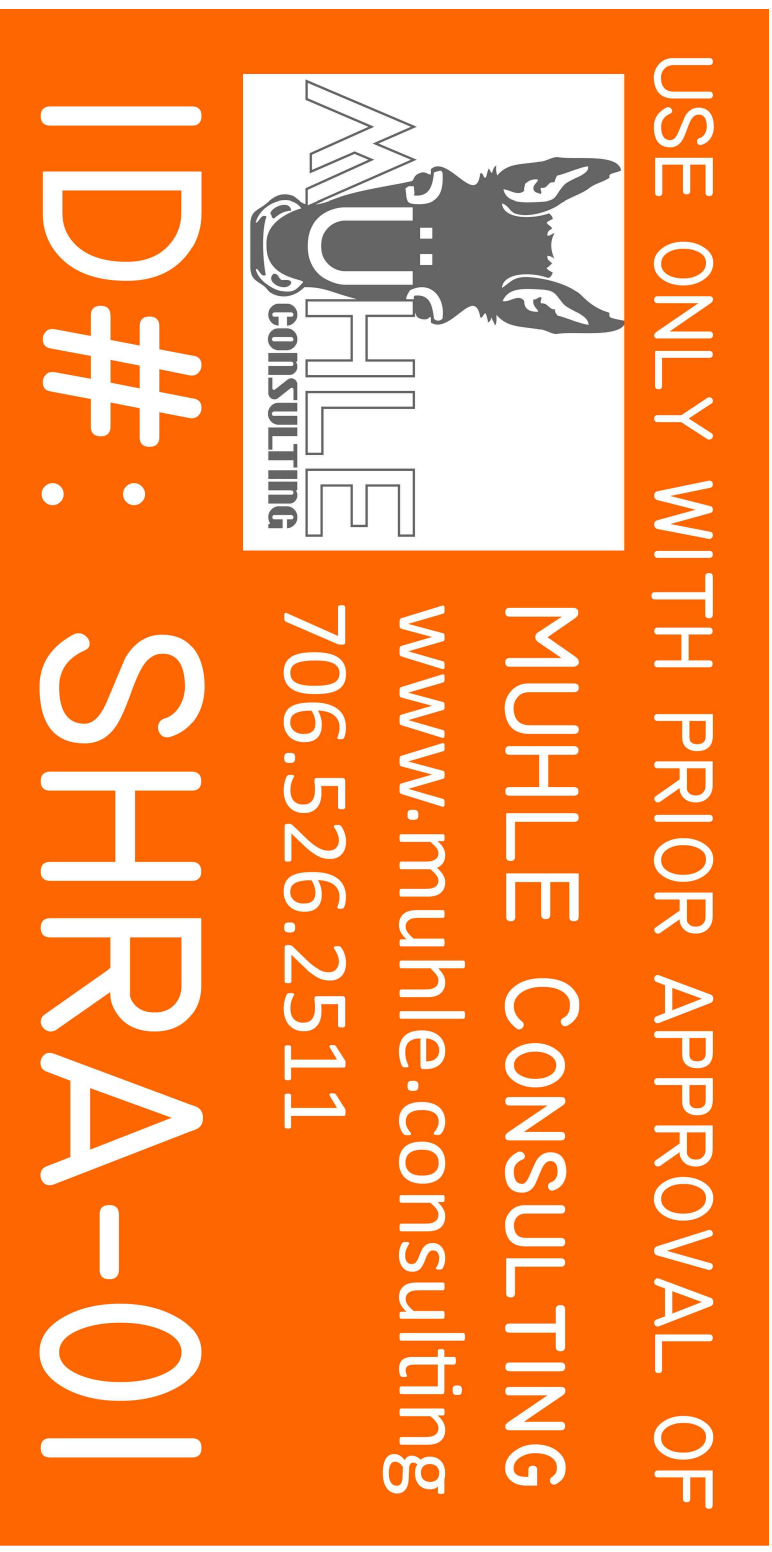
JOB #: 18-LTL-002, REV. #0
 ROOF ANCHOR TESTING DIAGRAM
 SCALE: 1"=25'

11 21 31 41 51 61 71 81 91 101 111 121 131 141

ACTUAL SIZE



4x ACTUAL SIZE



JOB #: 18-LTL-002, REV. #0
 ROOF ANCHOR IDENTIFICATION TAG
 SCALE: 1/1 (UNO)

0	IFC	JMB	09/25/19
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TITLE: SOUTH HAMPTON			
ROOF ANCHOR TESTING DIAGRAM			
SCALE:	DATE:	DRAWN:	CHECKED:
VARIES	09/25/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	2 OF 2	18-LTL-002-5	



South Hampton - Roof Anchor #01 - pretest.



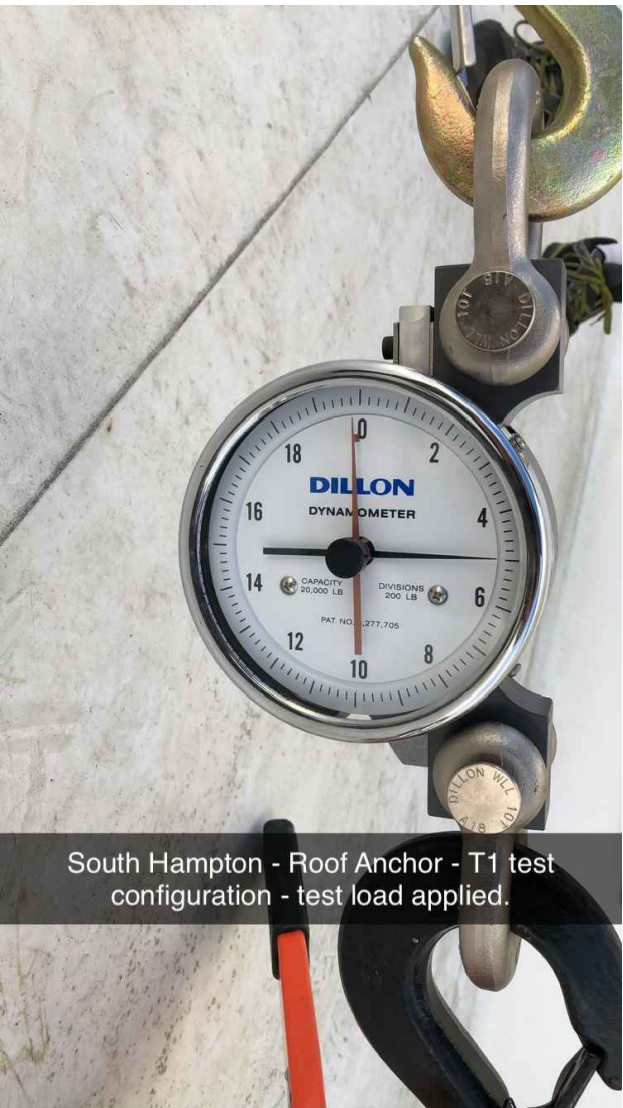
South Hampton - Roof Anchor - T1 test configuration.



South Hampton - Roof Anchor #01 - post-test.



South Hampton - Roof Anchor #65 - pretest.



South Hampton - Roof Anchor - T1 test configuration - test load applied.



South Hampton - Roof Anchor #65 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T1"

REVISION:	DESCRIPTION:	BY:	DATE:
0	IF1	JMB	10/01/19

STATUS: ISSUED FOR INFORMATION

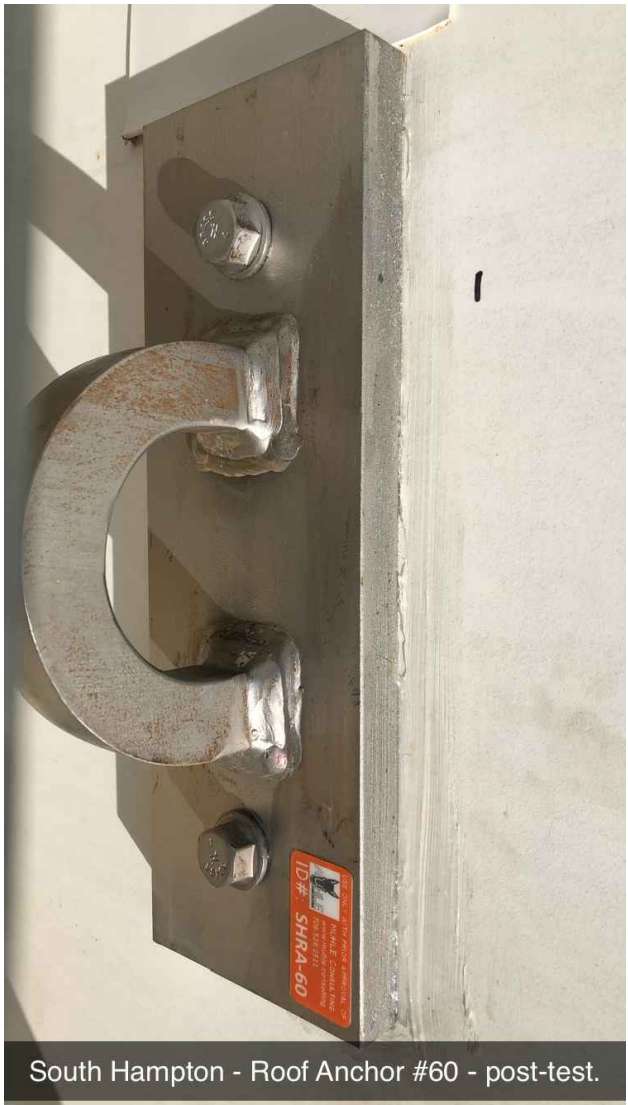
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**TITLE:
SOUTH HAMPTON ROOF ANCHOR
TESTING DOCUMENTATION**

SCALE:	DATE:	DRAWN:	CHECKED:
NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	01 OF 48	18-LTL-002-6	



NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T2"

REVISION:	DESCRIPTION:	BY:	DATE:
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STATUS: ISSUED FOR INFORMATION

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TITLE:
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SCALE:	DATE:	DRAWN:	CHECKED:
NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	02 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #59 - pretest.



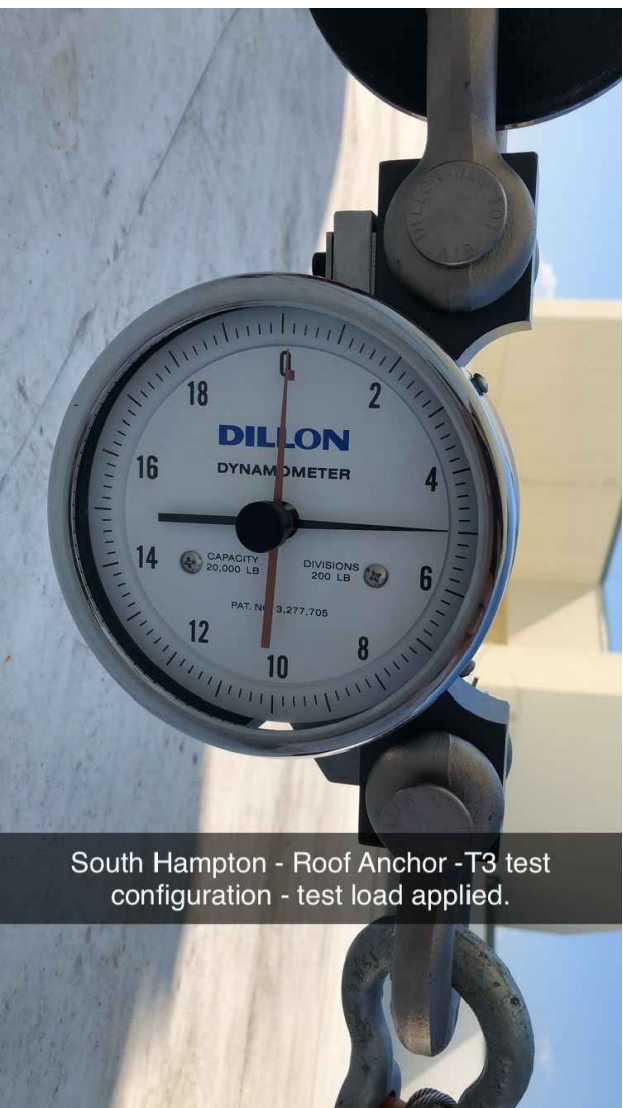
South Hampton - Roof Anchor - T3 test configuration.



South Hampton - Roof Anchor #59 - post-test.



South Hampton - Roof Anchor #63 - pretest.



South Hampton - Roof Anchor - T3 test configuration - test load applied.



South Hampton - Roof Anchor #63 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T3"

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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	03 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #02 - post-test.



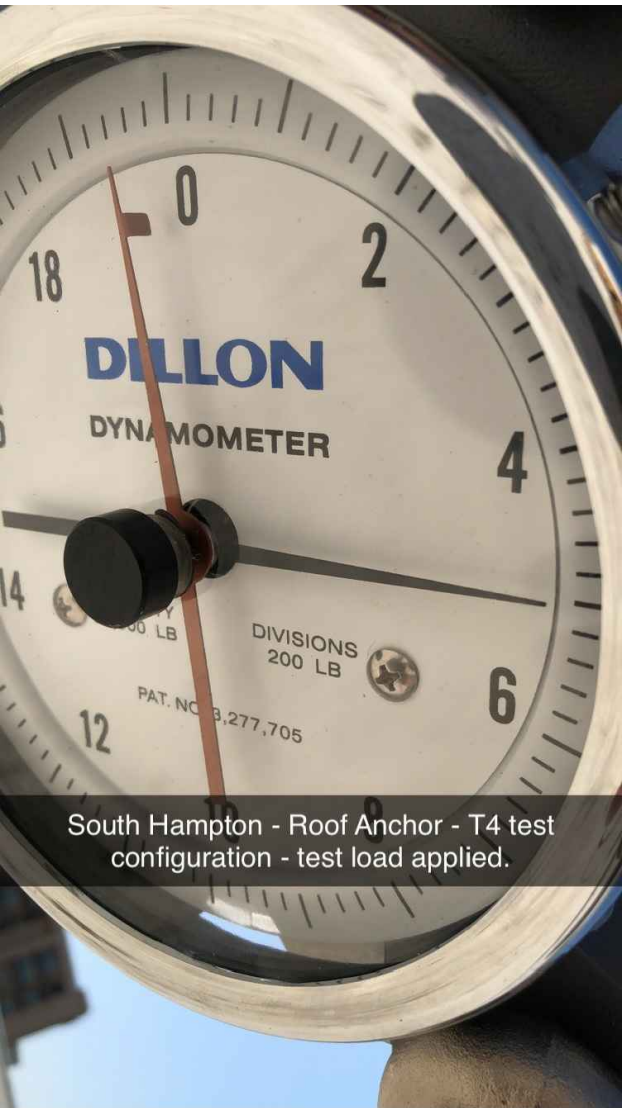
South Hampton - Roof Anchor - T4 test configuration.



South Hampton - Roof Anchor #02 - pretest.



South Hampton - Roof Anchor #61 - post-test.



South Hampton - Roof Anchor - T4 test configuration - test load applied.



South Hampton - Roof Anchor #61 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T4"

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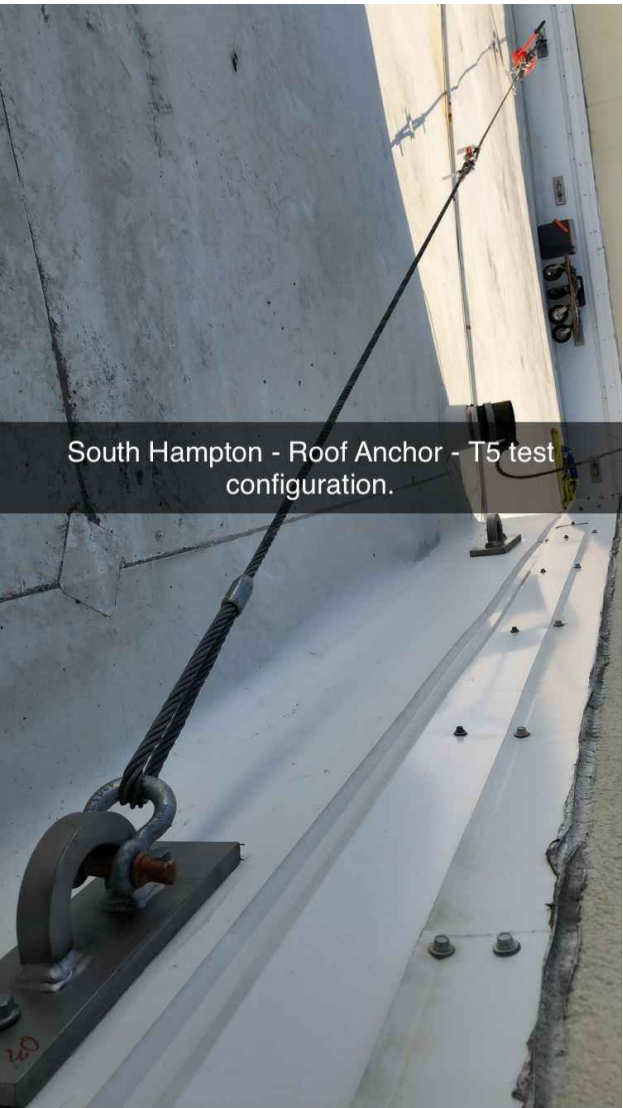
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	04 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #03 - post-test.



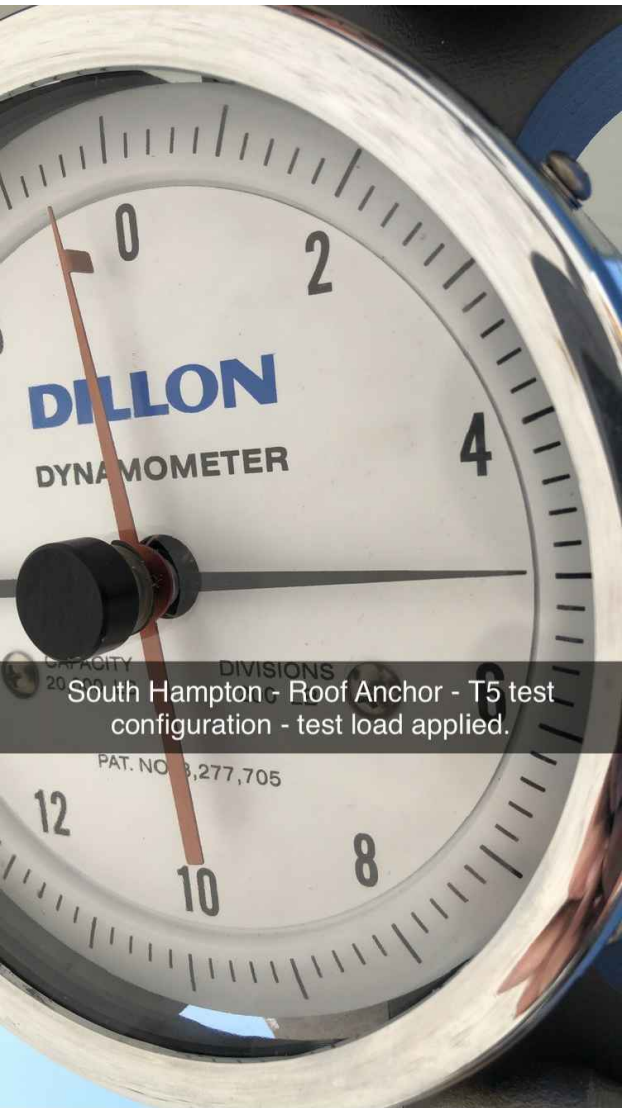
South Hampton - Roof Anchor - T5 test configuration.



South Hampton - Roof Anchor #03 - pretest.



South Hampton - Roof Anchor #62 - post-test.



South Hampton - Roof Anchor - T5 test configuration - test load applied.



South Hampton - Roof Anchor #62 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T5"

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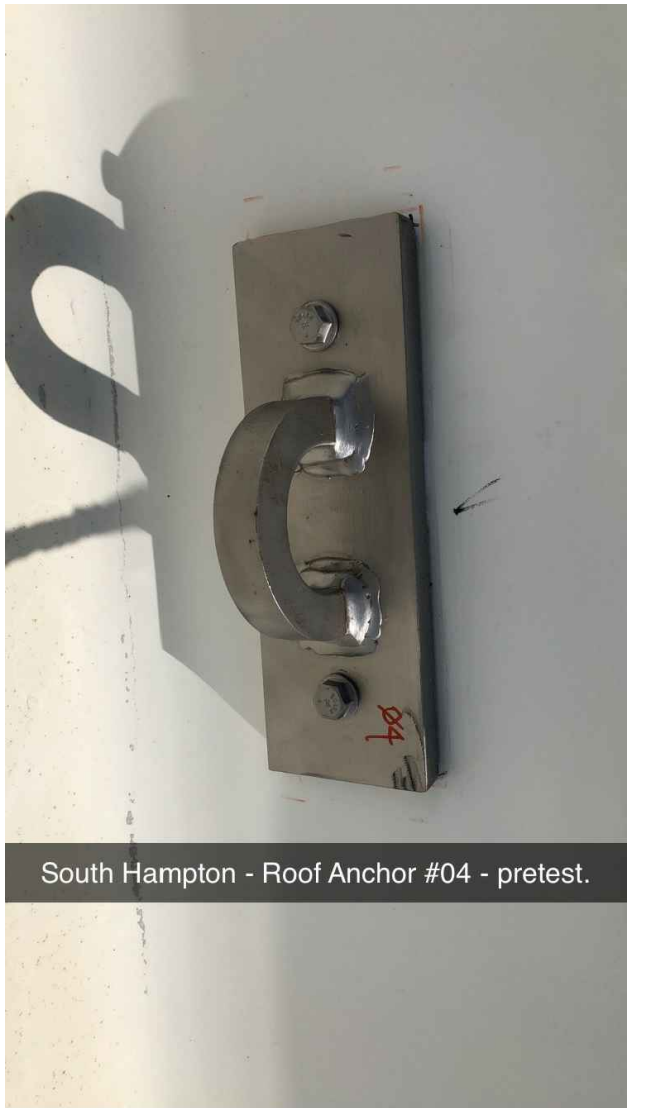
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	05 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #04 - post-test.



South Hampton - Roof Anchor - T6 test configuration.



South Hampton - Roof Anchor #04 - pretest.



South Hampton - Roof Anchor #06 - post-test.



South Hampton - Roof Anchor - T6 test configuration - test load applied.



South Hampton - Roof Anchor #06 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T6"

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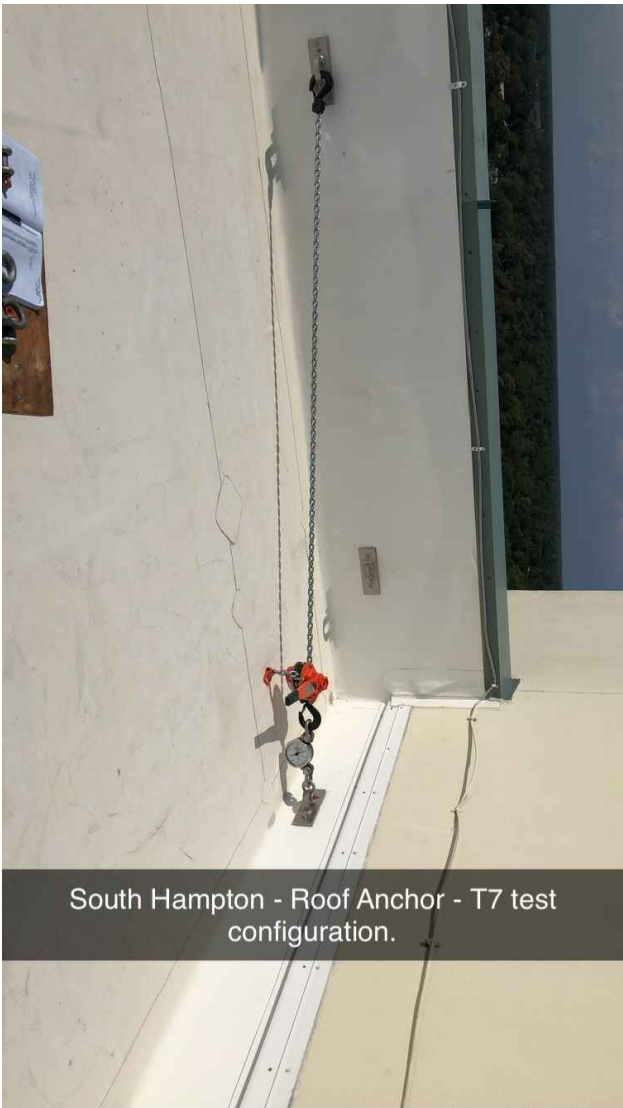
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18-LTL-002	06 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #05 - post-test.



South Hampton - Roof Anchor - T7 test configuration.



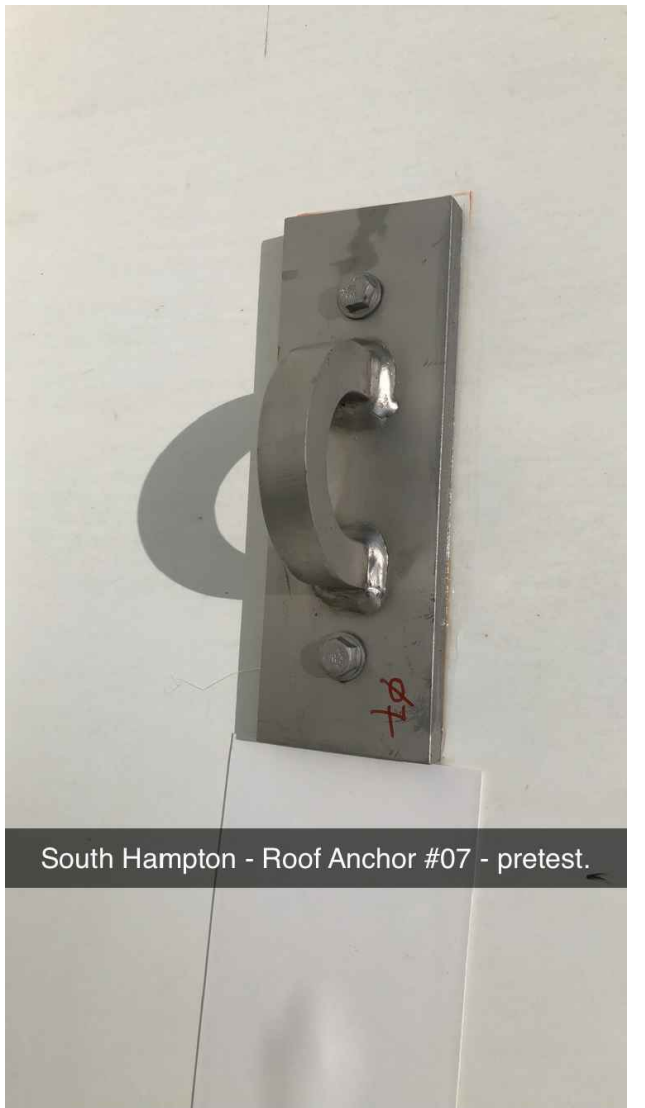
South Hampton - Roof Anchor #05 - pretest.



South Hampton - Roof Anchor #07 - post-test.



South Hampton - Roof Anchor - T7 test configuration - test load applied.



South Hampton - Roof Anchor #07 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T7"

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South Hampton - Roof Anchor #08 - post-test.



South Hampton - Roof Anchor - T8 test configuration.



South Hampton - Roof Anchor #08 - pretest.



South Hampton - Roof Anchor #10 - post-test.



South Hampton - Roof Anchor - T8 test configuration - test load applied.



South Hampton - Roof Anchor #10 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T8"

REVISION:	DESCRIPTION:	BY:	DATE:
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STATUS: ISSUED FOR INFORMATION

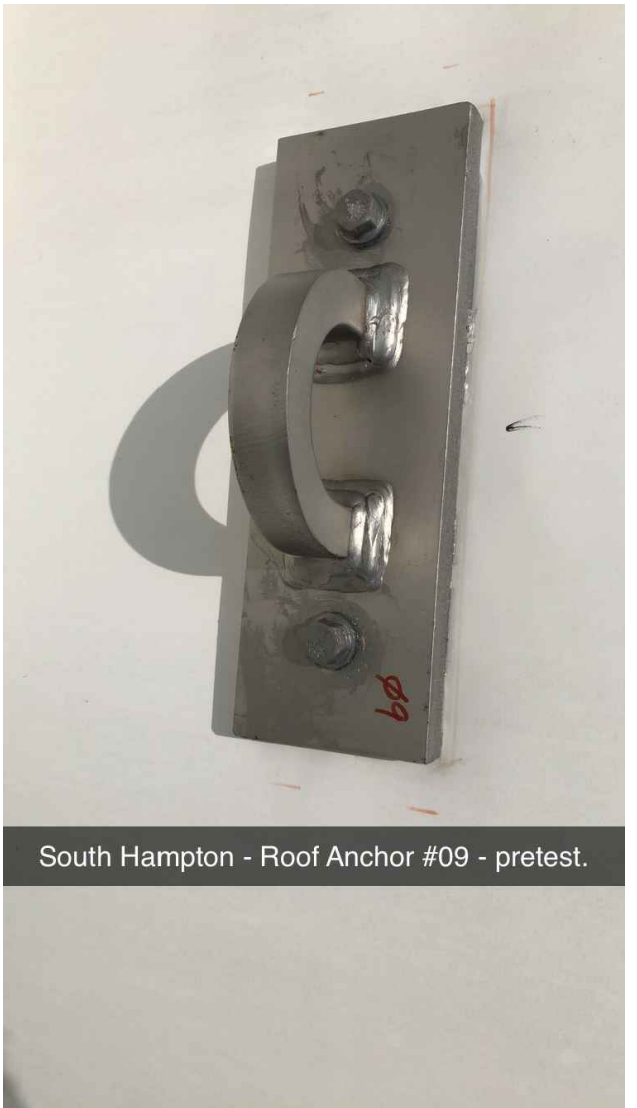
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South Hampton - Roof Anchor #09 - pretest.



South Hampton - Roof Anchor - T11 test configuration.



South Hampton - Roof Anchor #09 - post-test.



South Hampton - Roof Anchor #11 - pretest.



South Hampton - Roof Anchor - T11 test configuration - test load applied.



South Hampton - Roof Anchor #11 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T9"

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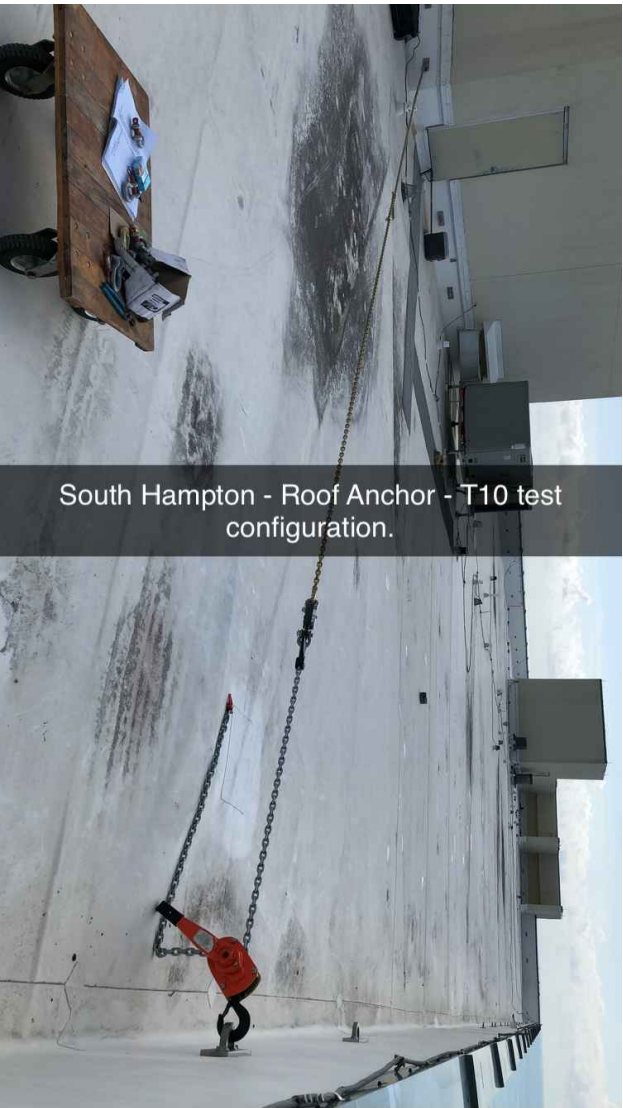
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PROJECT #:	SHEET #:	DRAWING #:	
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South Hampton - Roof Anchor #12 - pretest.



South Hampton - Roof Anchor - T10 test configuration.



South Hampton - Roof Anchor #12 - post-test.



South Hampton - Roof Anchor #66 - pretest.



South Hampton - Roof Anchor - T10 test configuration - test load applied.



South Hampton - Roof Anchor #66 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T10"

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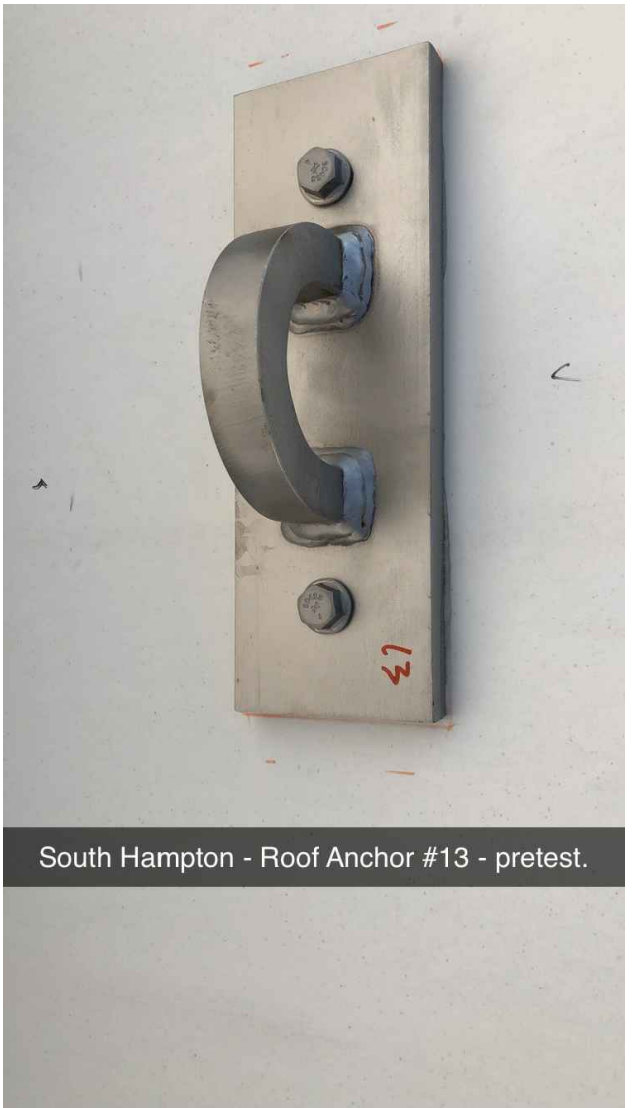
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	10 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #13 - post-test.



South Hampton - Roof Anchor - T11 test configuration.



South Hampton - Roof Anchor #13 - pretest.



South Hampton - Roof Anchor #67 - post-test.



South Hampton - Roof Anchor - T11 test configuration - test load applied.



South Hampton - Roof Anchor #67 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T11"

0	IF1	JMB	10/01/19
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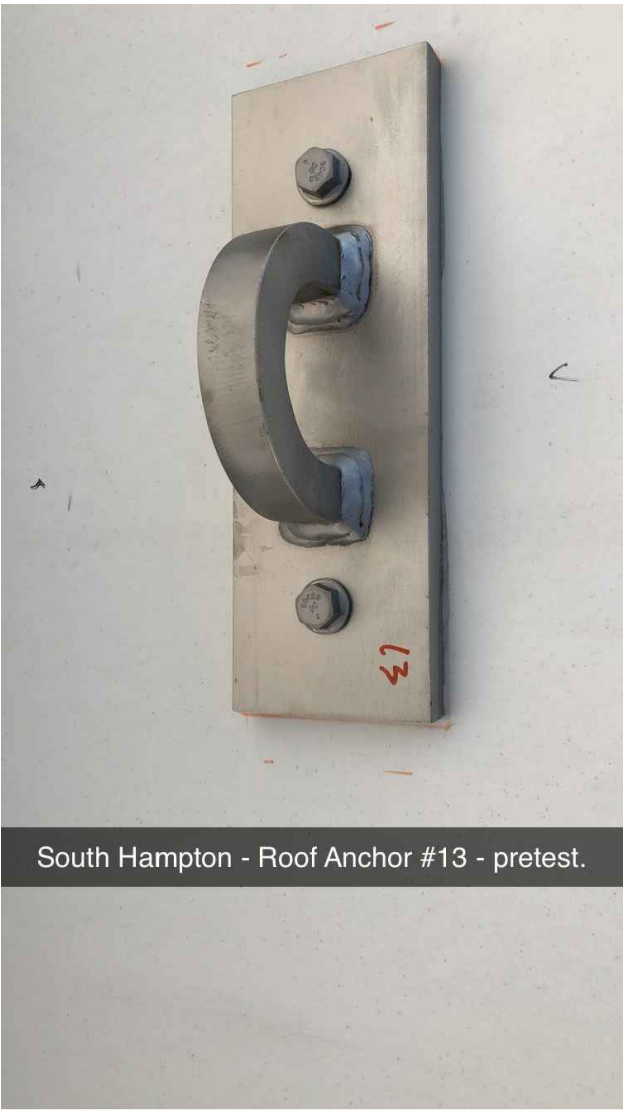
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18-LTL-002	11 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #13 - pretest.



South Hampton - Roof Anchor - T12 test configuration.



South Hampton - Roof Anchor #13 - post-test.



South Hampton - Roof Anchor #68 - pretest.



South Hampton - Roof Anchor - T12 test configuration - test load applied.



South Hampton - Roof Anchor #68 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T12"

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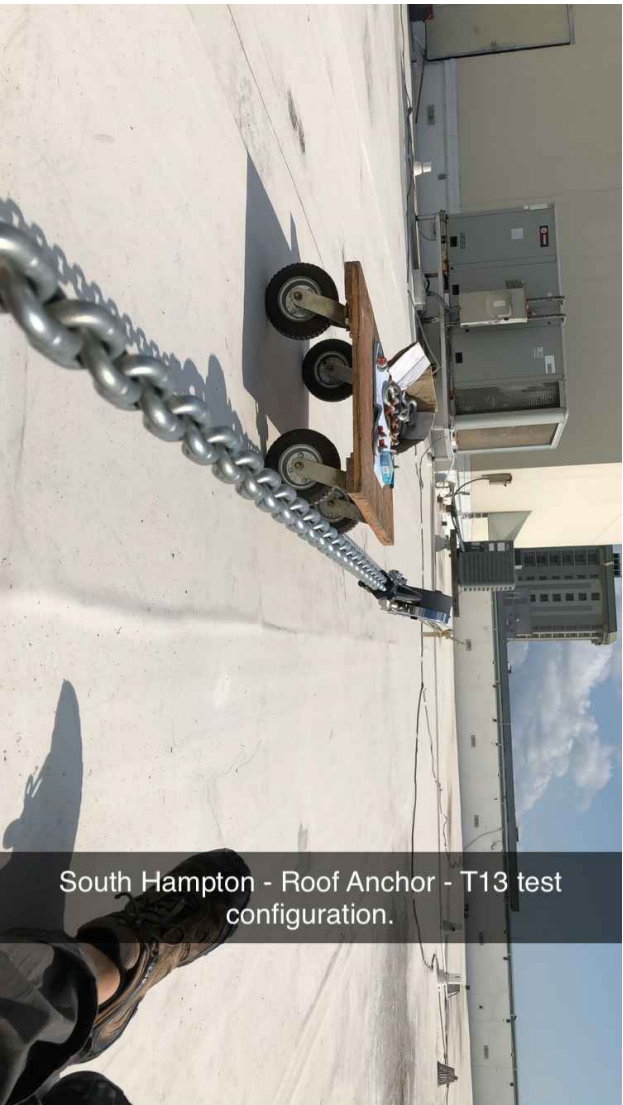
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South Hampton - Roof Anchor #14 - pretest.



South Hampton - Roof Anchor - T13 test configuration.



South Hampton - Roof Anchor #14 - post-test.



South Hampton - Roof Anchor #55 - pretest.



South Hampton - Roof Anchor - T13 test configuration - test load applied.



South Hampton - Roof Anchor #55 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T13"

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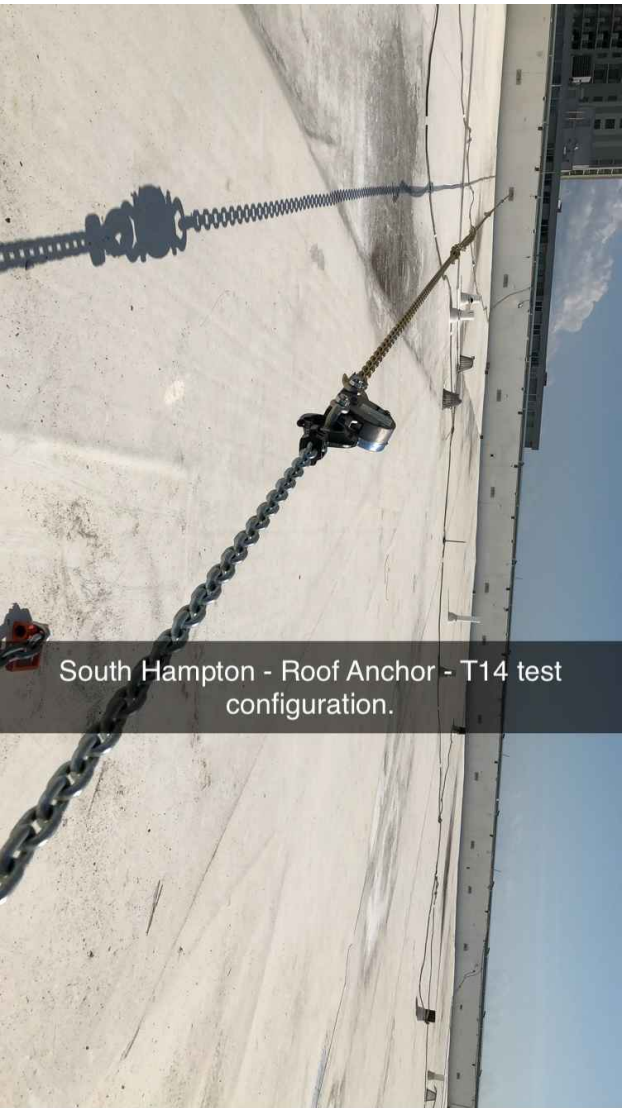
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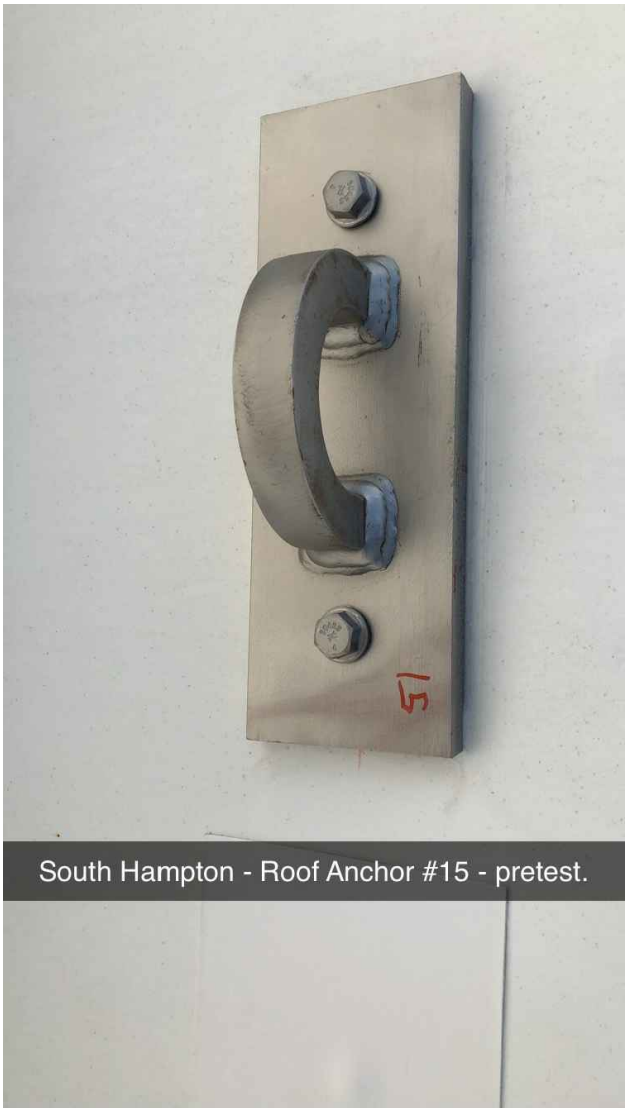
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	13 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #15 - post-test.



South Hampton - Roof Anchor - T14 test configuration.



South Hampton - Roof Anchor #15 - pretest.



South Hampton - Roof Anchor #54 - post-test.



South Hampton - Roof Anchor - T14 test configuration - test load applied.



South Hampton - Roof Anchor #54 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T14"

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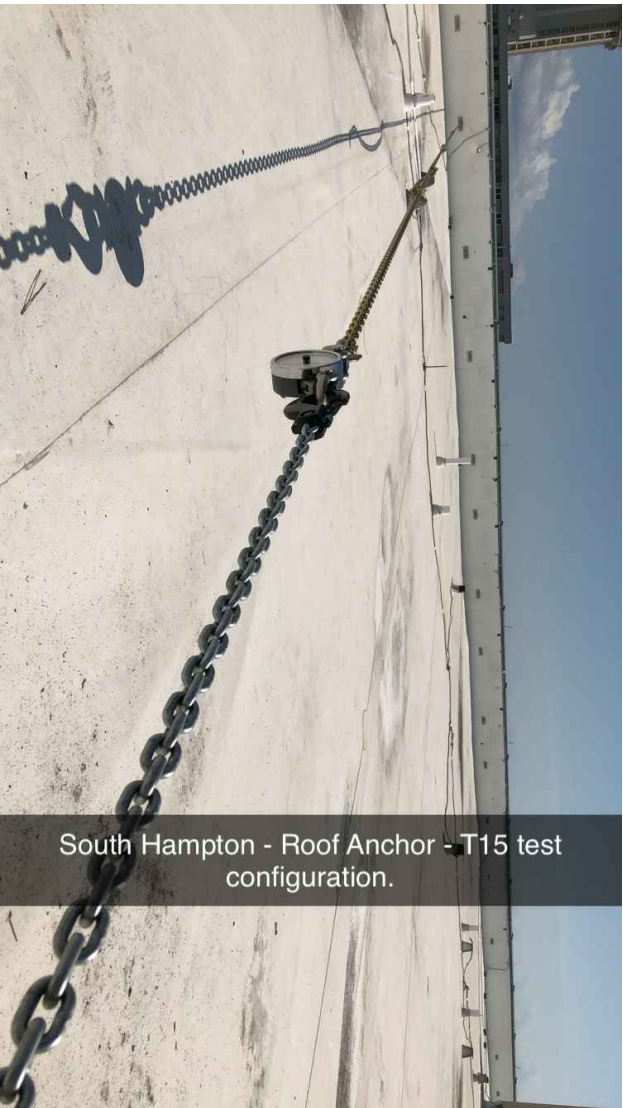
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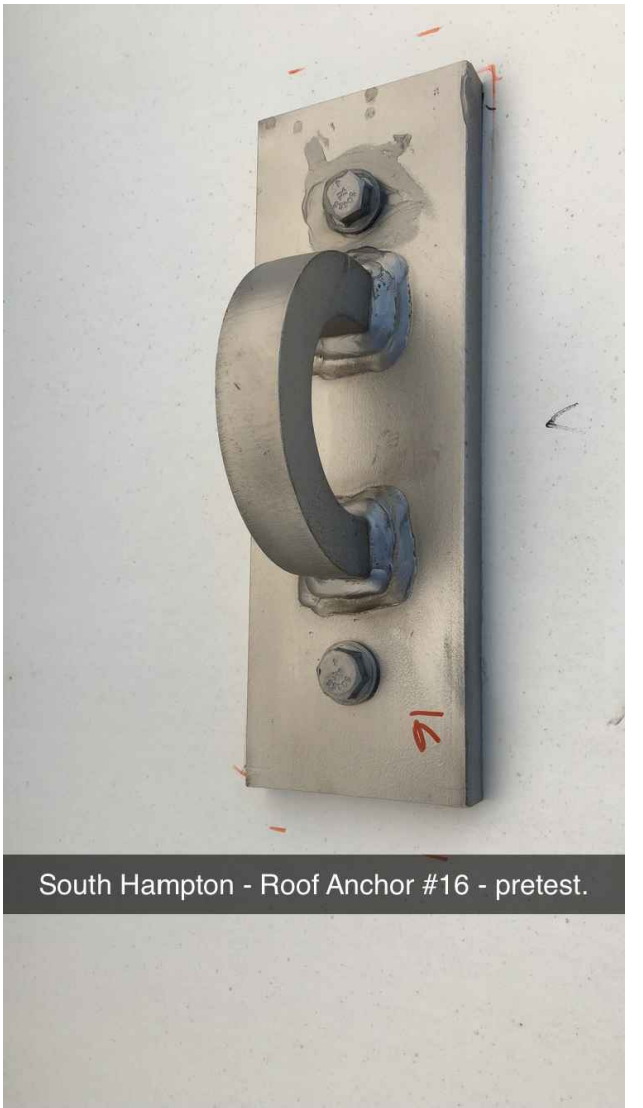
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	14 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #16 - post-test.



South Hampton - Roof Anchor - T15 test configuration.



South Hampton - Roof Anchor #16 - pretest.



South Hampton - Roof Anchor #53 - post-test.



South Hampton - Roof Anchor - T15 test configuration - test load applied.



South Hampton - Roof Anchor #53 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T15"

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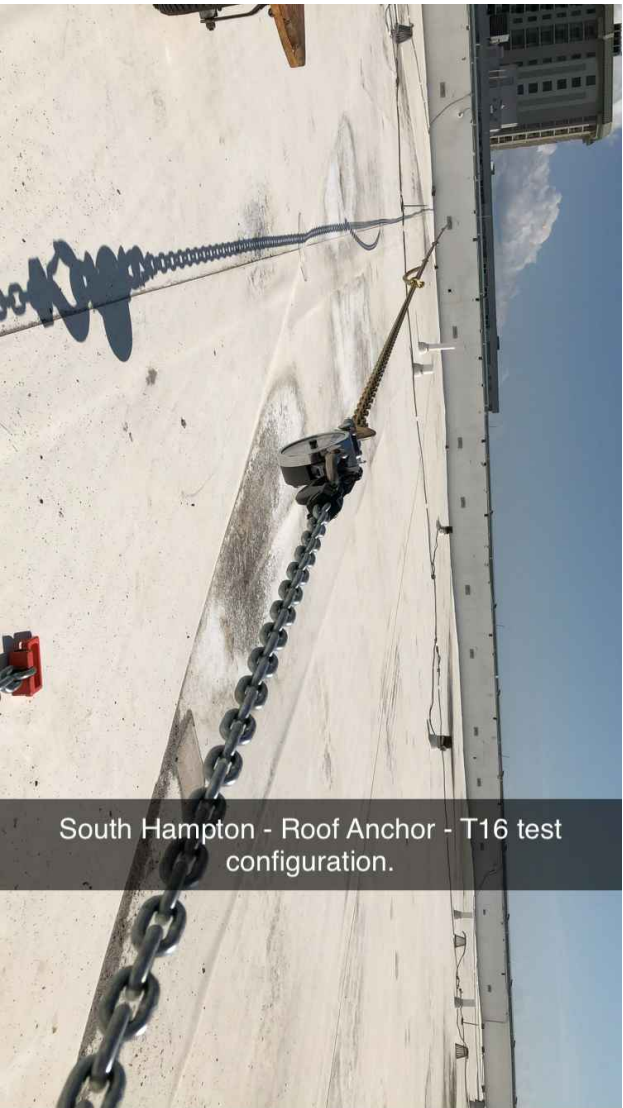
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PROJECT #:	18-LTL-002	SHEET #:	15 OF 48	DRAWING #:	18-LTL-002-6		



South Hampton - Roof Anchor #17 - post-test.



South Hampton - Roof Anchor - T16 test configuration.



South Hampton - Roof Anchor #17 - pretest.



South Hampton - Roof Anchor #53 - post-test.



South Hampton - Roof Anchor - T16 test configuration - test load applied.



South Hampton - Roof Anchor #53 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T16"

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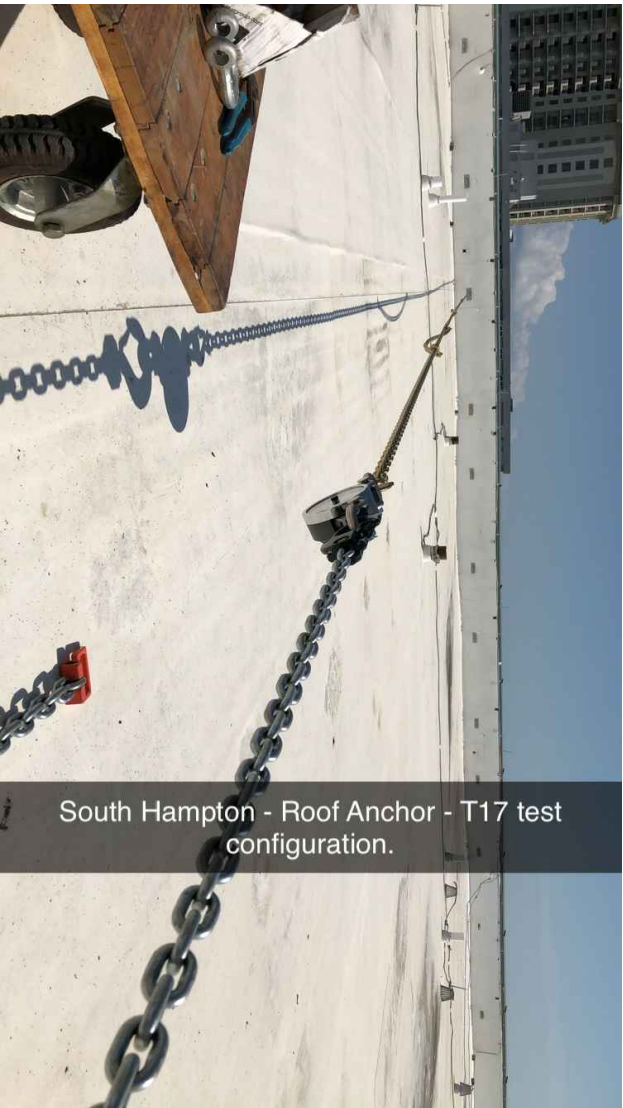
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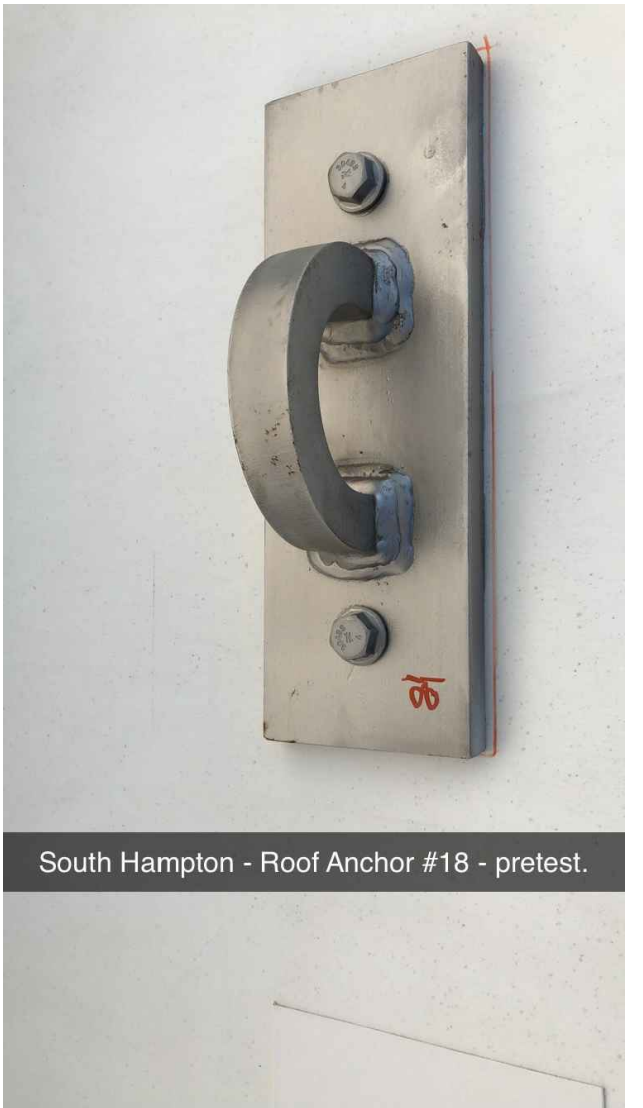
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NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	16 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #18 - post-test.



South Hampton - Roof Anchor - T17 test configuration.



South Hampton - Roof Anchor #18 - pretest.



South Hampton - Roof Anchor #51 - post-test.



South Hampton - Roof Anchor - T17 test configuration - test load applied.



South Hampton - Roof Anchor #51 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T17"

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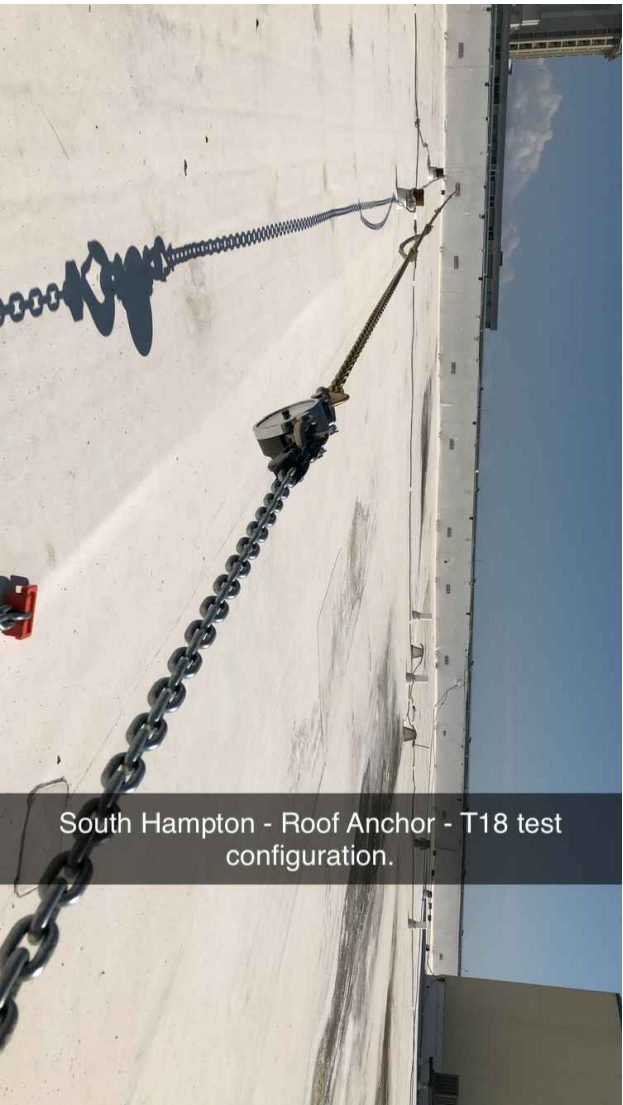
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South Hampton - Roof Anchor #19 - post-test.



South Hampton - Roof Anchor - T18 test configuration.



South Hampton - Roof Anchor #19 - pretest.



South Hampton - Roof Anchor #50 - post-test.



South Hampton - Roof Anchor - T18 test configuration - test load applied.



South Hampton - Roof Anchor #50 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T18"

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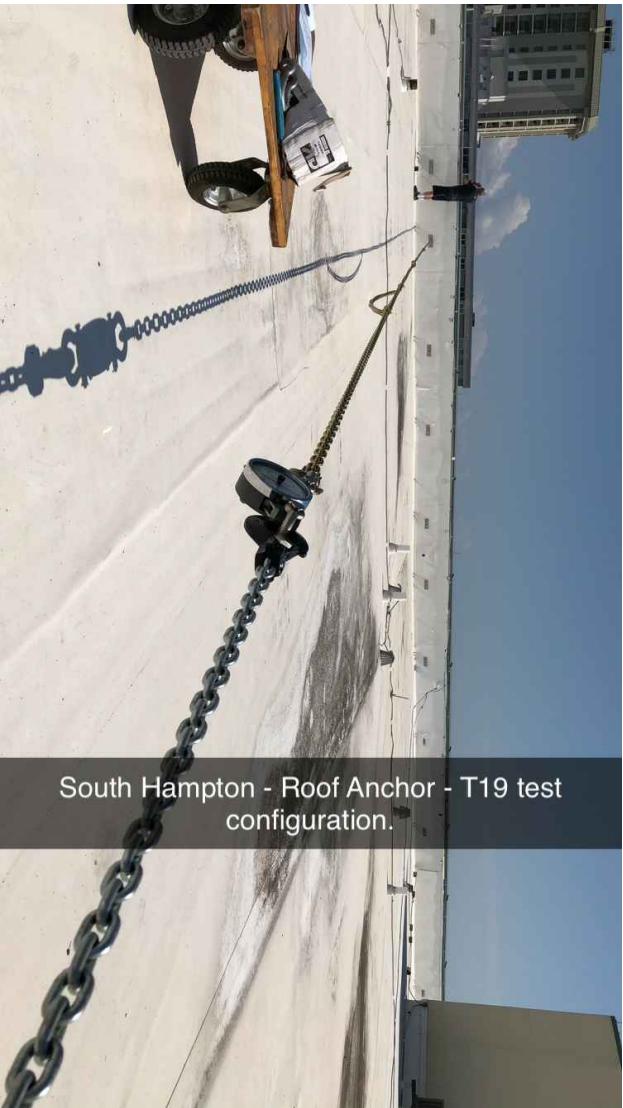
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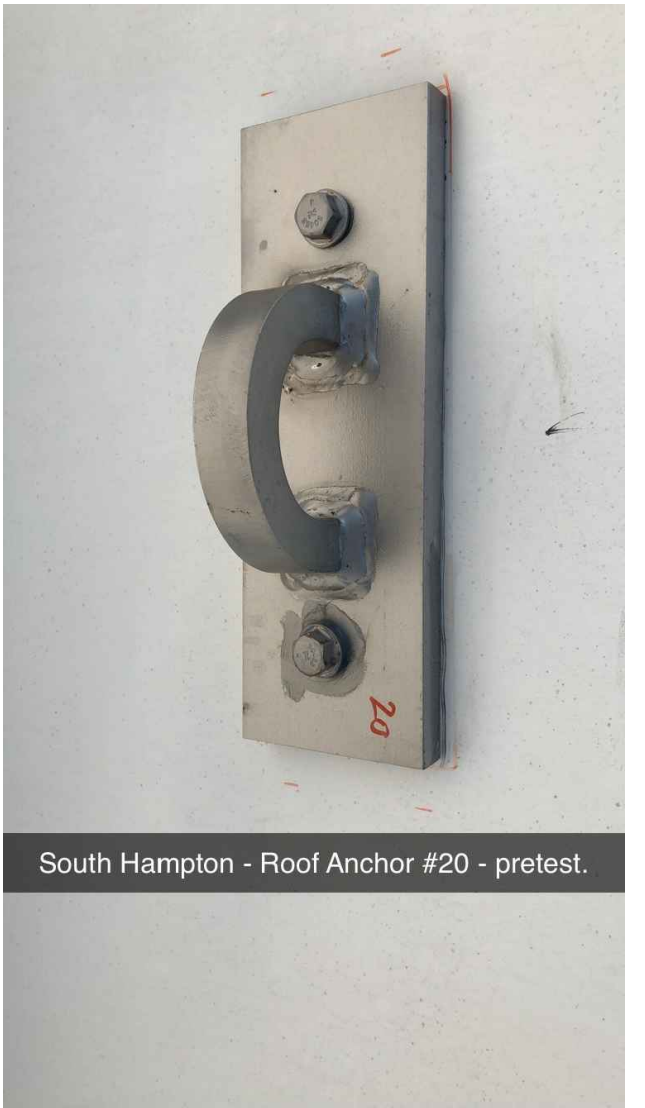
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NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	18 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #20 - post-test.



South Hampton - Roof Anchor - T19 test configuration.



South Hampton - Roof Anchor #20 - pretest.



South Hampton - Roof Anchor #49 - post-test.



South Hampton - Roof Anchor - T19 test configuration - test load applied.



South Hampton - Roof Anchor #49 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T19"

REVISION:	0	DESCRIPTION:	IF1	BY:	JMB	DATE:	10/01/19
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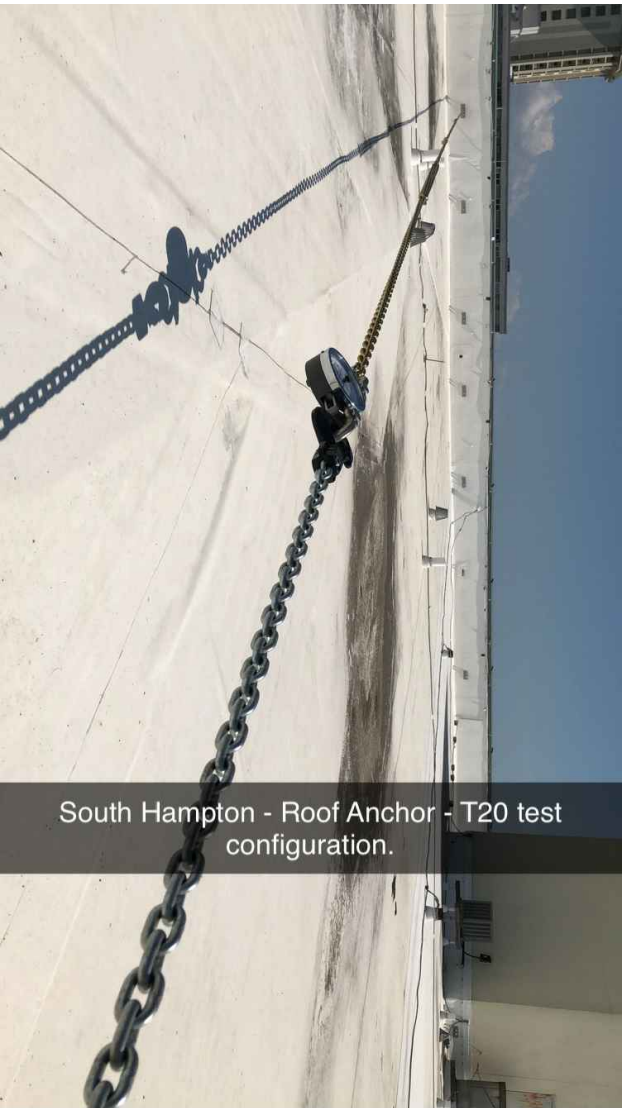
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SCALE:	NO SCALE	DATE:	10/01/19	DRAWN:	JMB	CHECKED:	JMB
PROJECT #:	18-LTL-002	SHEET #:	19 OF 48	DRAWING #:	18-LTL-002-6		



South Hampton - Roof Anchor #22 - post-test.



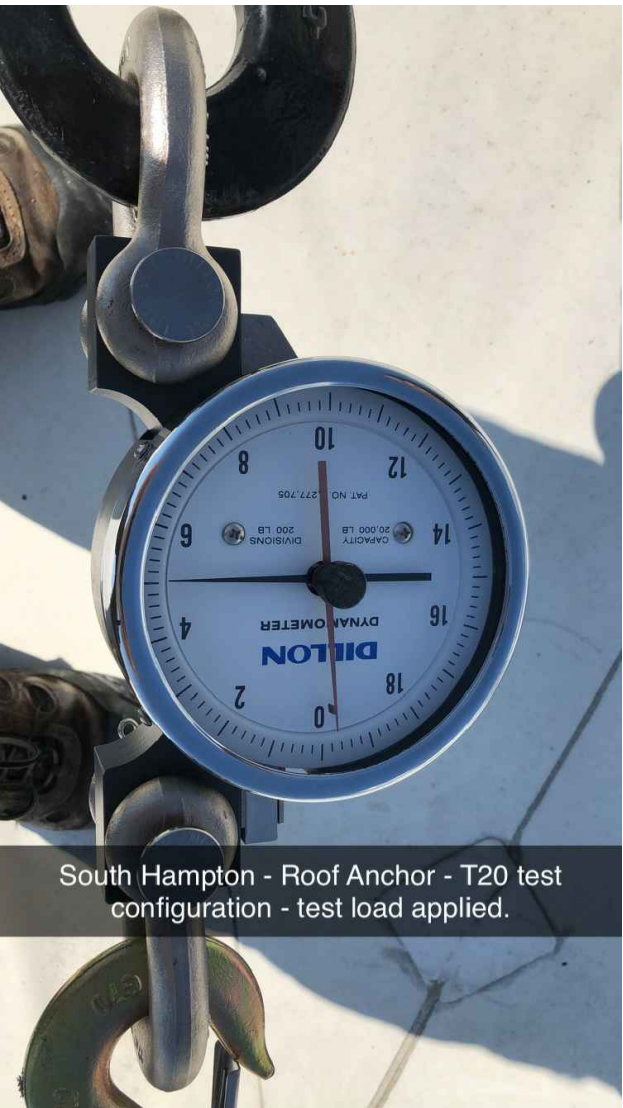
South Hampton - Roof Anchor - T20 test configuration.



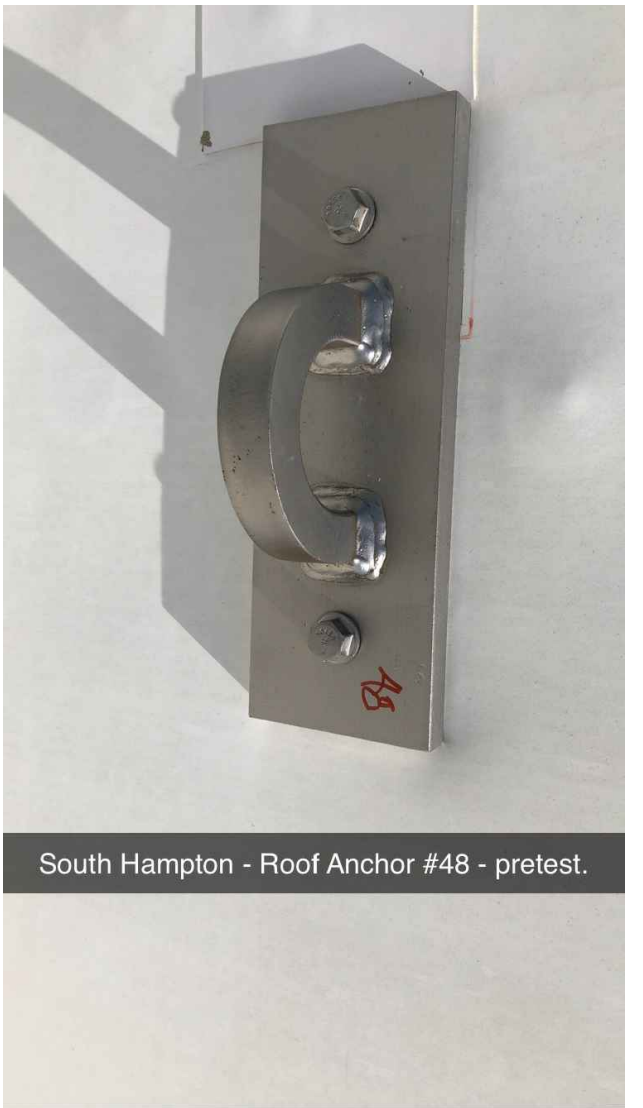
South Hampton - Roof Anchor #22 - pretest.



South Hampton - Roof Anchor #48 - post-test.



South Hampton - Roof Anchor - T20 test configuration - test load applied.



South Hampton - Roof Anchor #48 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T20"

0	IF1	JMB	10/01/19
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	20 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #22 - post-test.



South Hampton - Roof Anchor - T21 test configuration.



South Hampton - Roof Anchor #22 - pretest.



South Hampton - Roof Anchor #47 - post-test.



South Hampton - Roof Anchor - T21 test configuration - test load applied.



South Hampton - Roof Anchor #47 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T21"

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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	21 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #23 - post-test.



South Hampton - Roof Anchor - T22 test configuration.



South Hampton - Roof Anchor #23 - pretest.



South Hampton - Roof Anchor #46 - post-test.



South Hampton - Roof Anchor - T22 test configuration - test load applied.



South Hampton - Roof Anchor #46 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T22"

REVISION:	DESCRIPTION:	BY:	DATE:
0	IF1	JMB	10/01/19

STATUS: ISSUED FOR INFORMATION

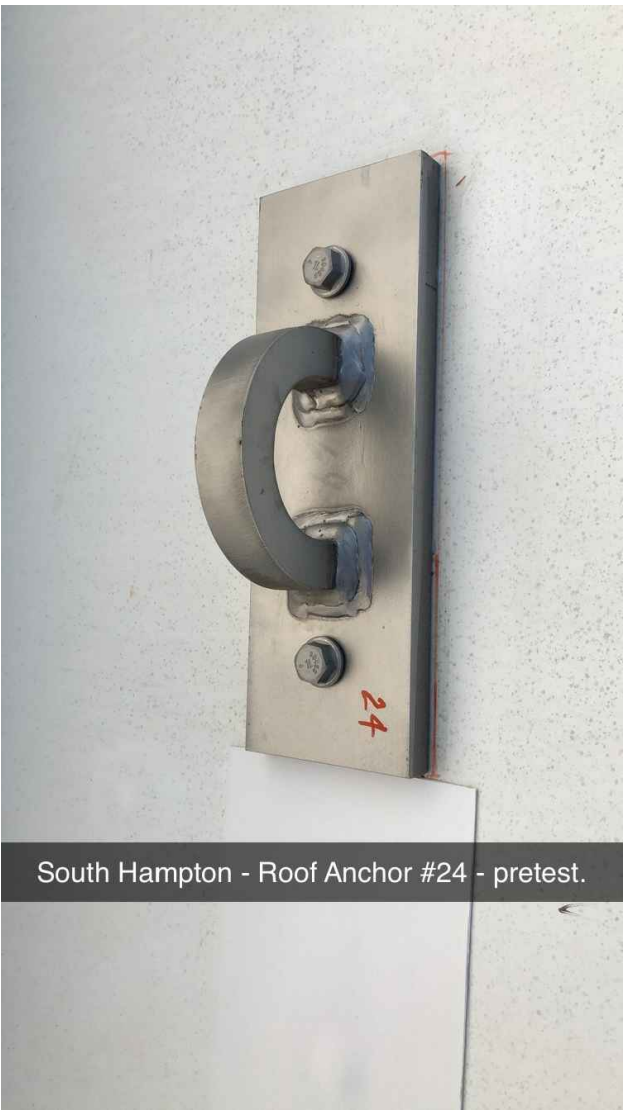
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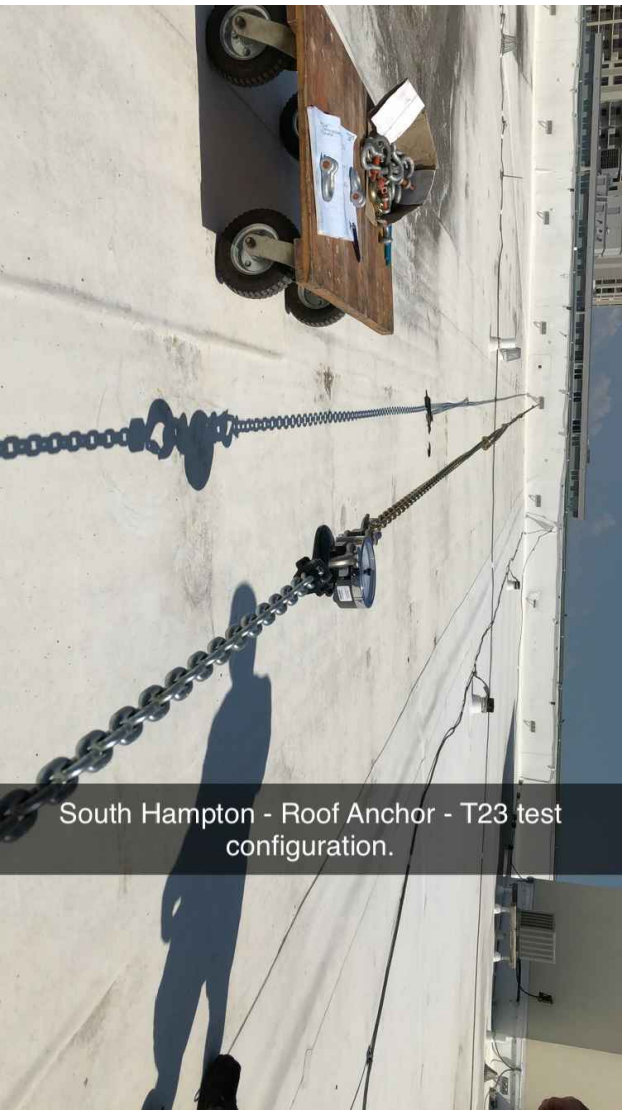
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	22 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #24 - pretest.



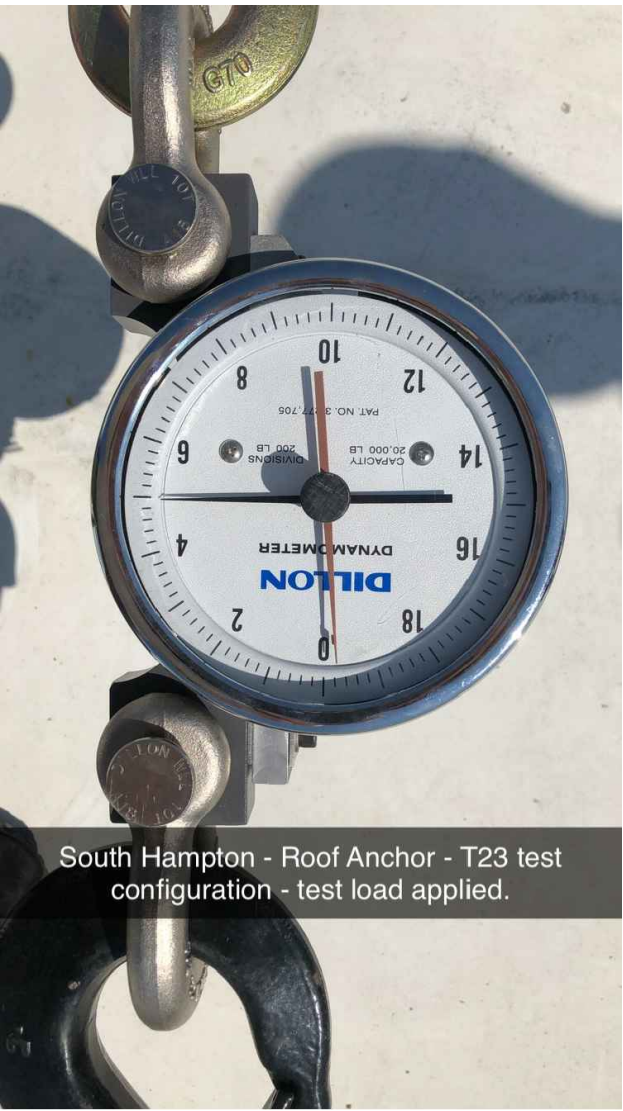
South Hampton - Roof Anchor - T23 test configuration.



South Hampton - Roof Anchor #24 - post-test.



South Hampton - Roof Anchor #45 - pretest.



South Hampton - Roof Anchor - T23 test configuration - test load applied.



South Hampton - Roof Anchor #45 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T23"

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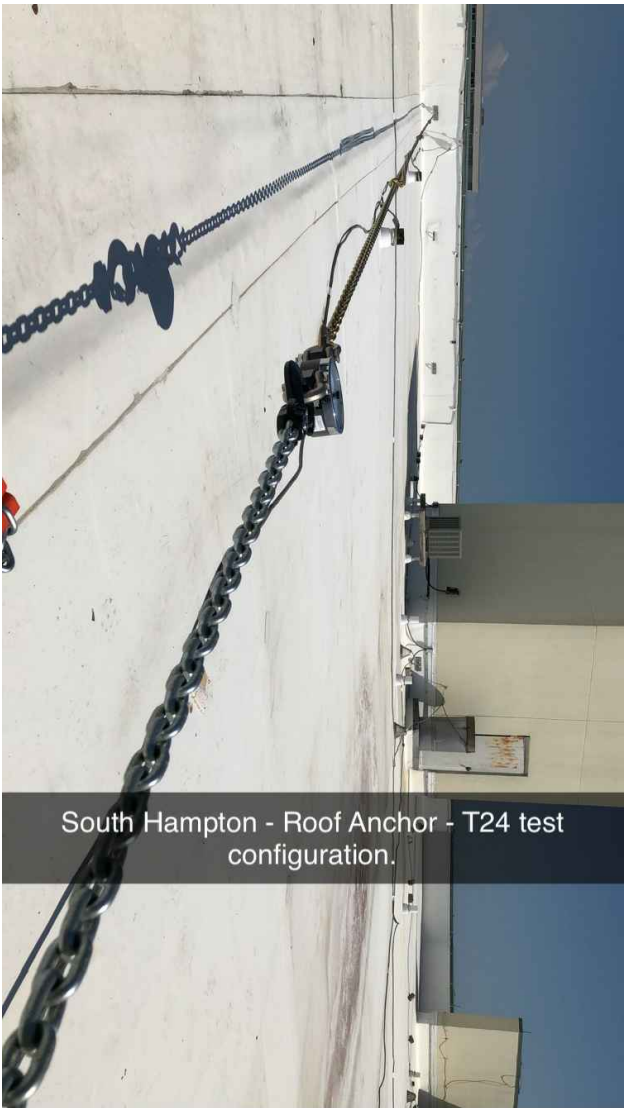
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NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	23 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #25 - post-test.



South Hampton - Roof Anchor - T24 test configuration.



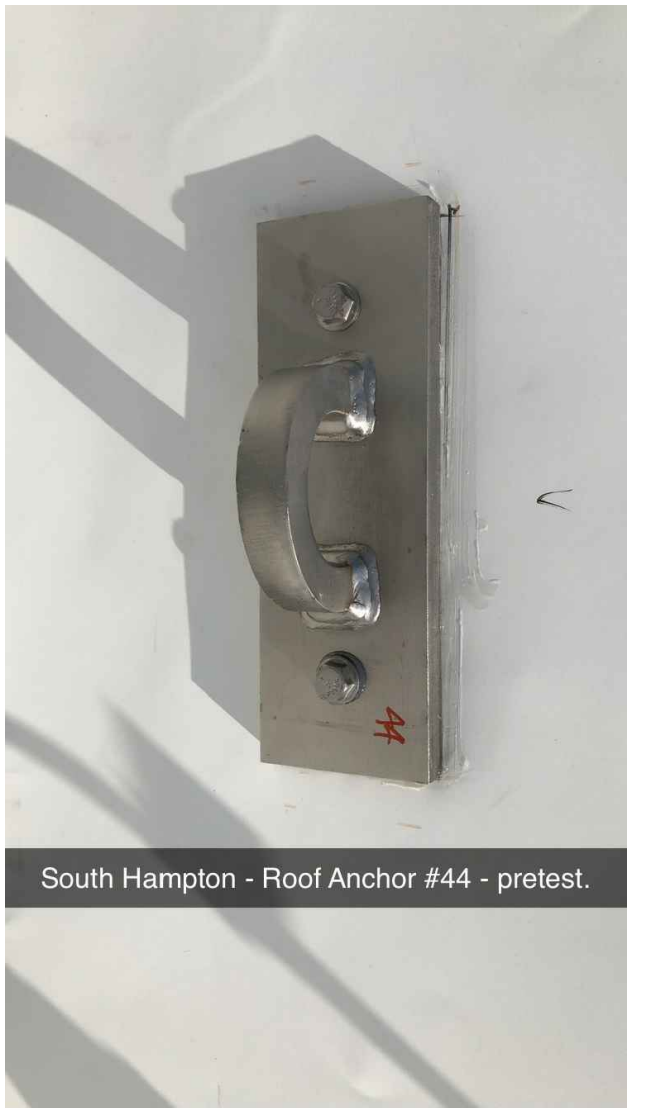
South Hampton - Roof Anchor #25 - pretest.



South Hampton - Roof Anchor #44 - post-test.



South Hampton - Roof Anchor - T24 test configuration - test load applied.



South Hampton - Roof Anchor #44 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T24"

REVISION:	DESCRIPTION:	BY:	DATE:
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STATUS: ISSUED FOR INFORMATION

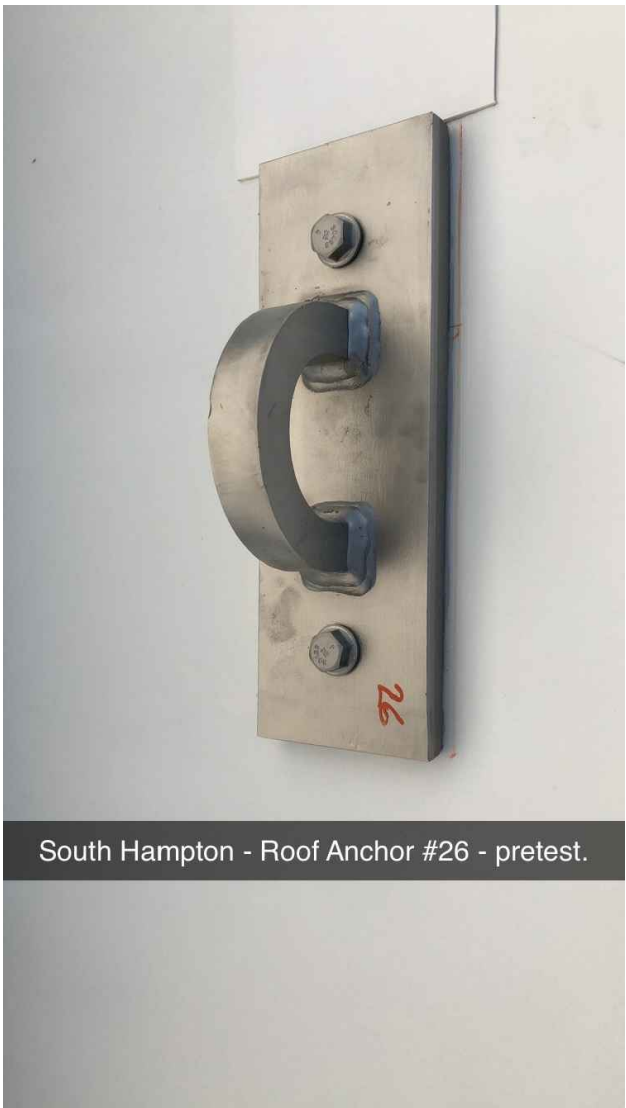
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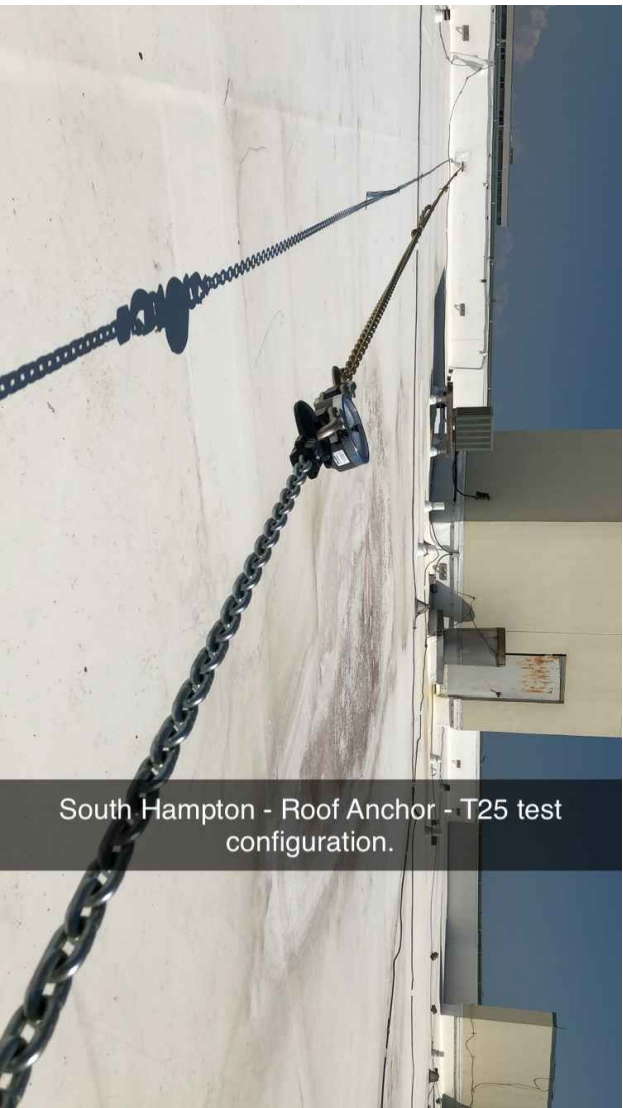
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	24 OF 48	18-LTL-002-6	



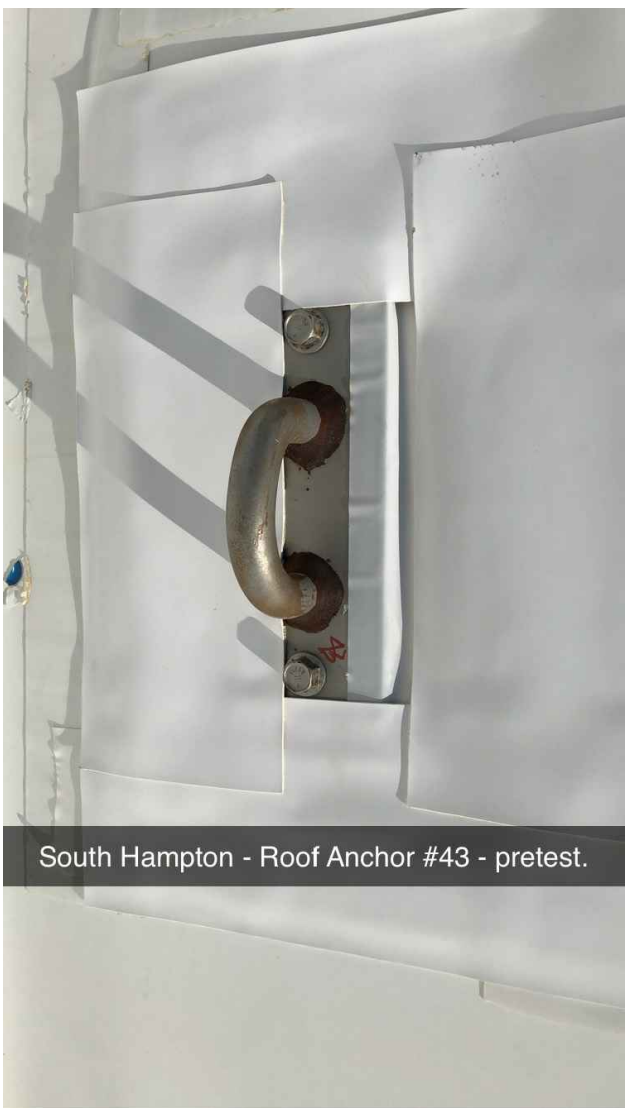
South Hampton - Roof Anchor #26 - pretest.



South Hampton - Roof Anchor - T25 test configuration.



South Hampton - Roof Anchor #26 - post-test.



South Hampton - Roof Anchor #43 - pretest.



South Hampton - Roof Anchor - T25 test configuration - test load applied.



South Hampton - Roof Anchor #43 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T25"

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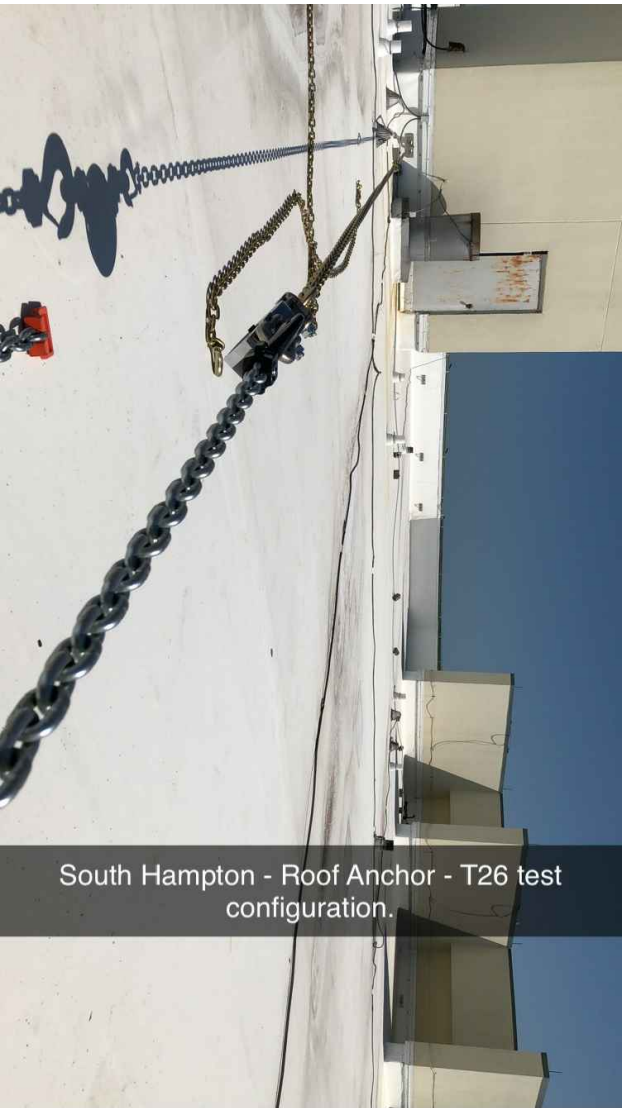
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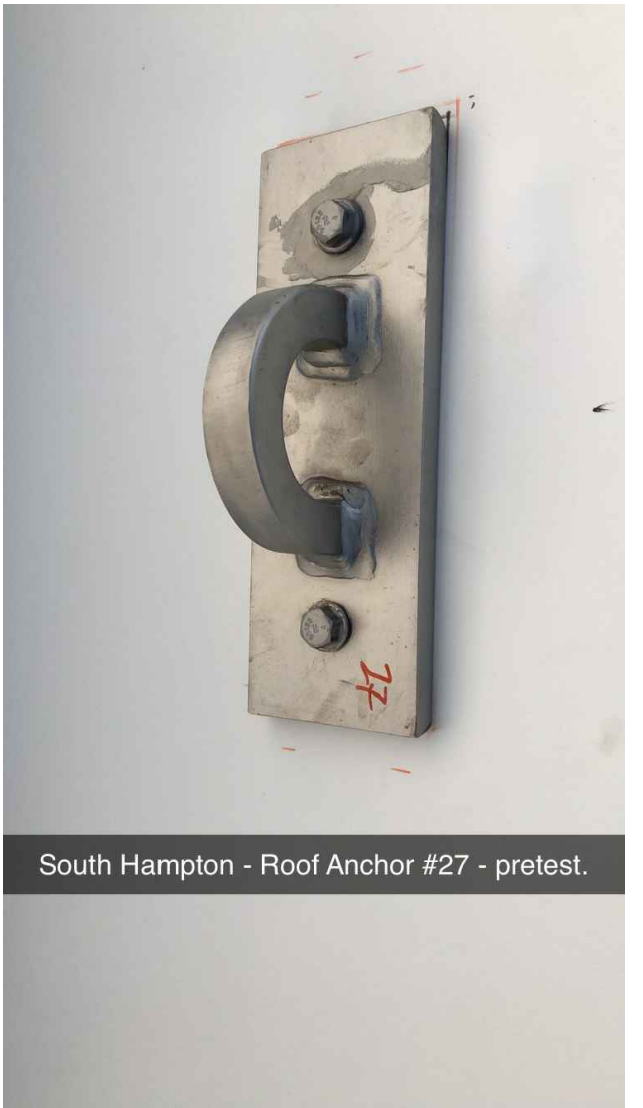
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NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	25 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #27 - post-test.



South Hampton - Roof Anchor - T26 test configuration.



South Hampton - Roof Anchor #27 - pretest.



South Hampton - Roof Anchor #75 - post-test.



South Hampton - Roof Anchor - T26 test configuration - test load applied.



South Hampton - Roof Anchor #75 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T26"

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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	26 OF 48	18-LTL-002-6	



NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T27"

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STATUS: ISSUED FOR INFORMATION

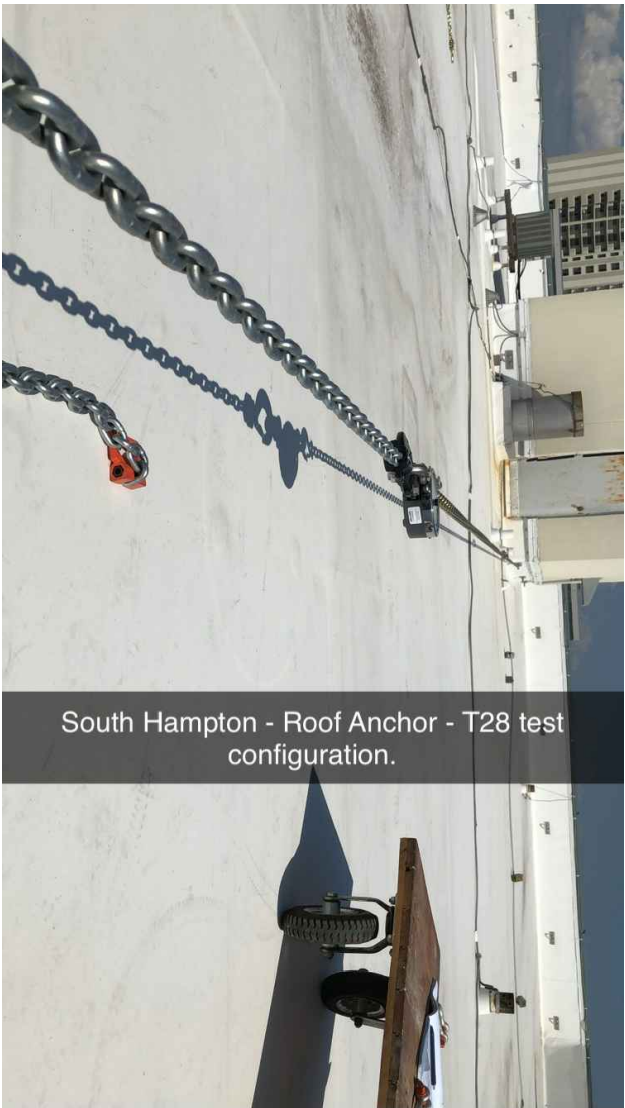

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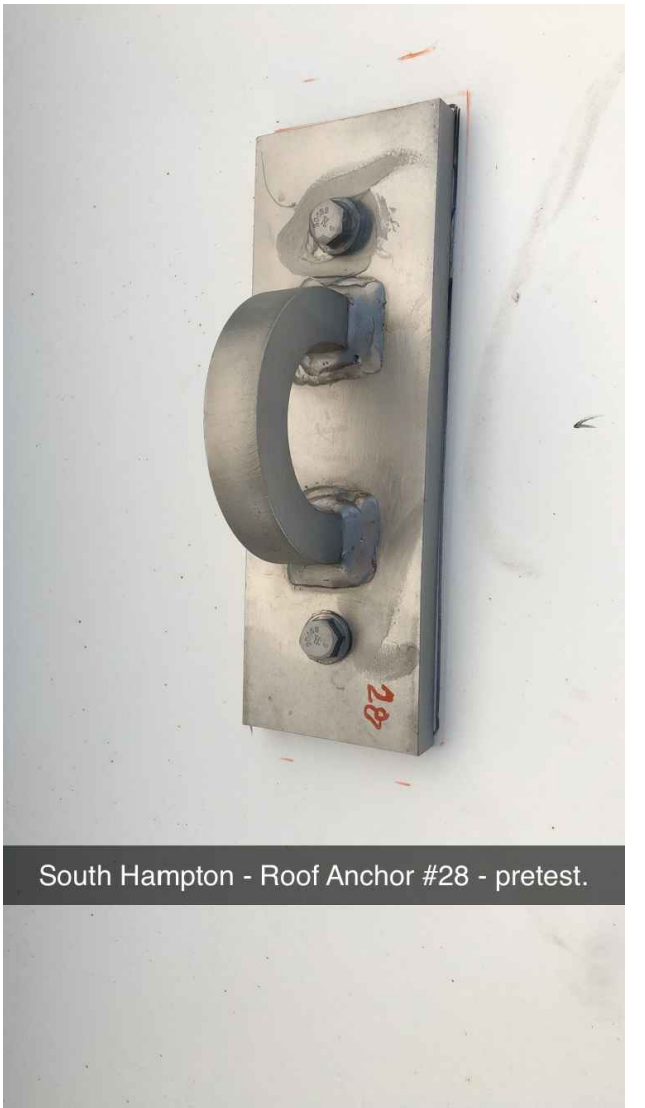
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	27 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #28 - post-test.



South Hampton - Roof Anchor - T28 test configuration.



South Hampton - Roof Anchor #28 - pretest.



South Hampton - Roof Anchor #76 - post-test.



South Hampton - Roof Anchor - T28 test configuration - test load applied.



South Hampton - Roof Anchor #76 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T28"

REVISION:	DESCRIPTION:	BY:	DATE:
0	IF1	JMB	10/01/19

STATUS: ISSUED FOR INFORMATION

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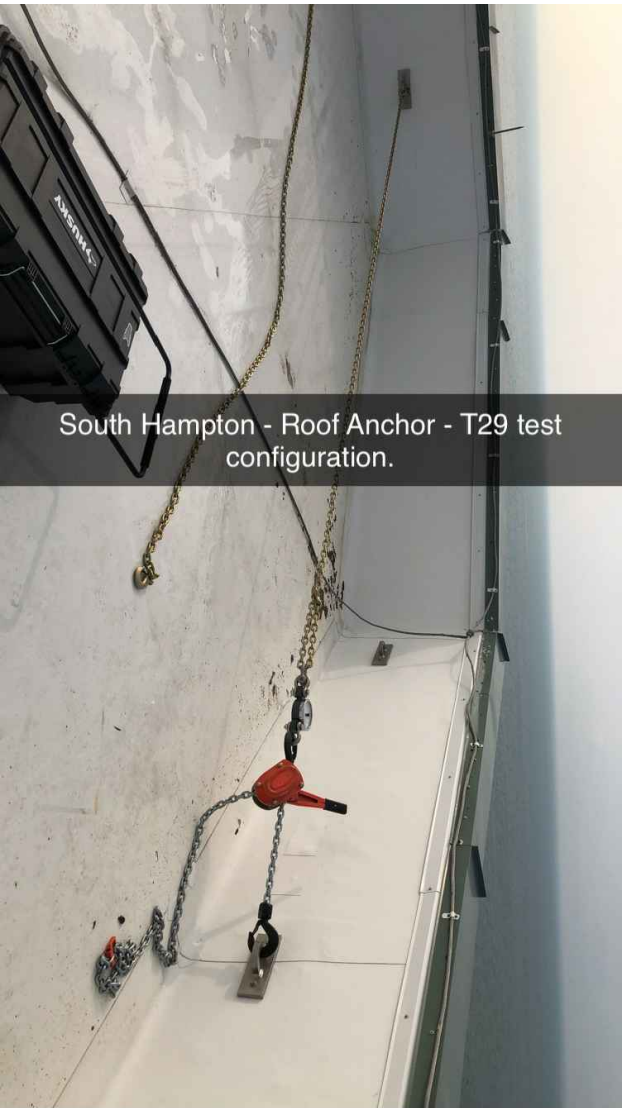
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	28 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #31 - post-test.



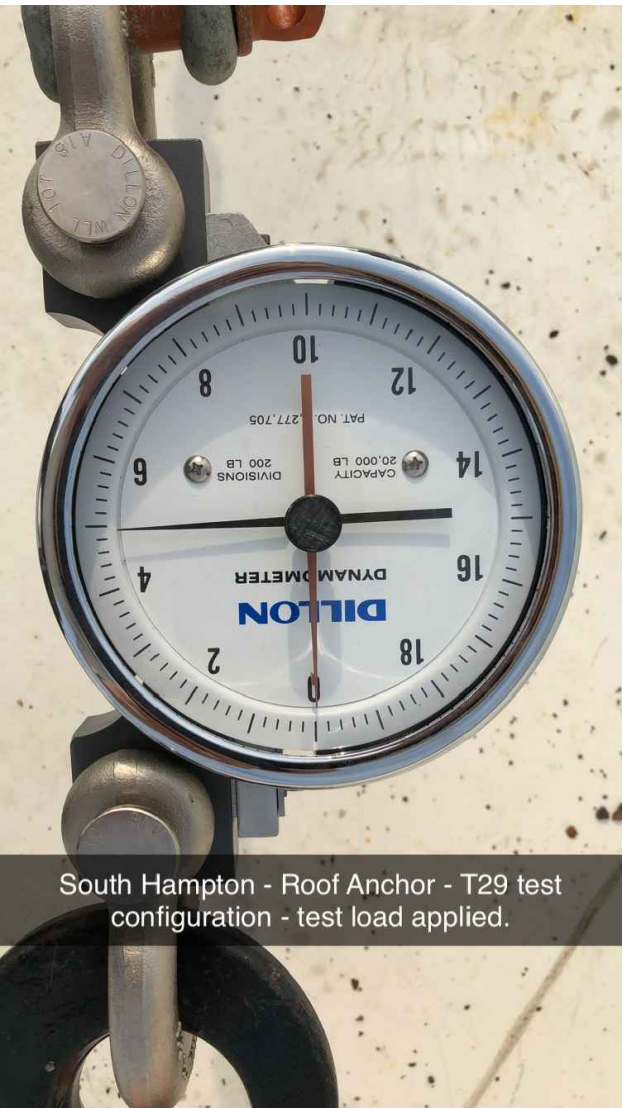
South Hampton - Roof Anchor - T29 test configuration.



South Hampton - Roof Anchor #31 - pretest.



South Hampton - Roof Anchor #33 - post-test.



South Hampton - Roof Anchor - T29 test configuration - test load applied.



South Hampton - Roof Anchor #33 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T29"

REVISION:	DESCRIPTION:	BY:	DATE:
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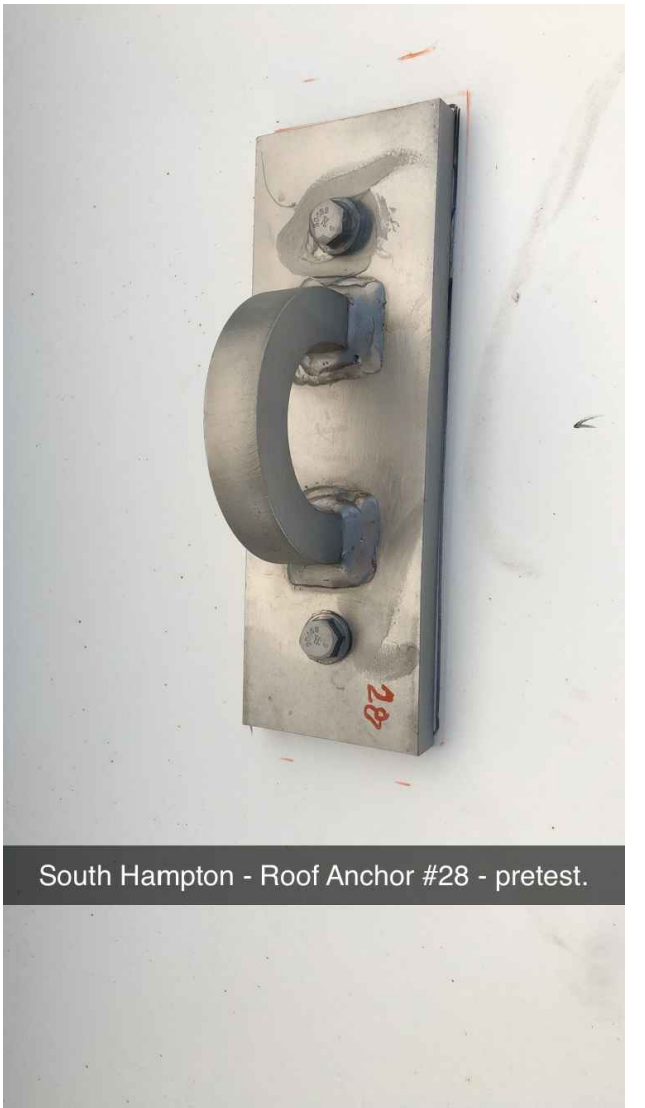
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NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	29 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #28 - post-test.



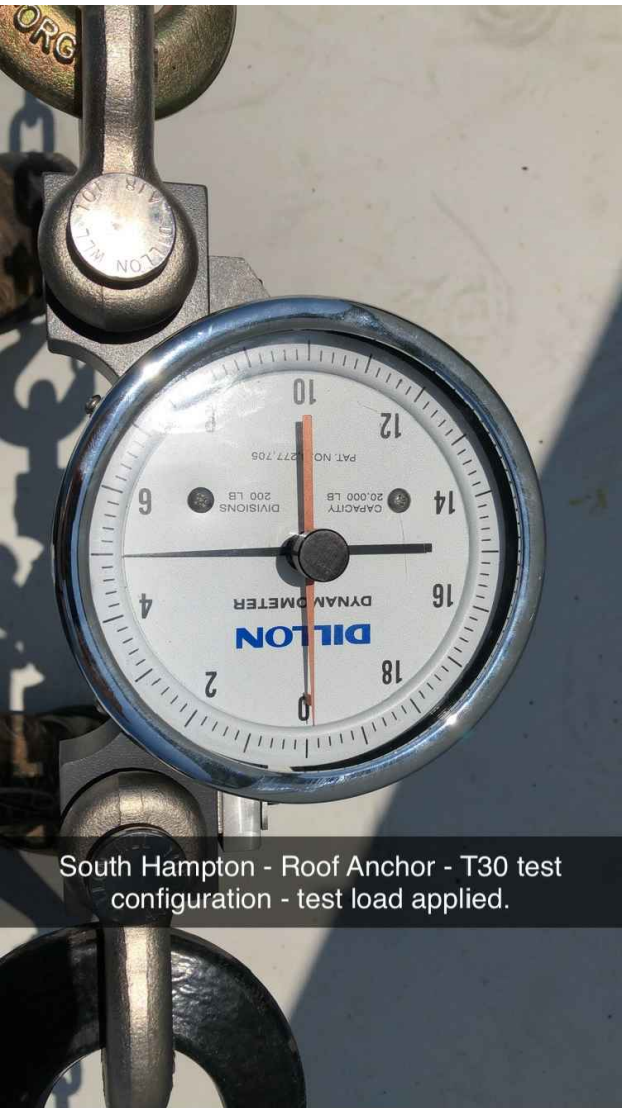
South Hampton - Roof Anchor - T30 test configuration.



South Hampton - Roof Anchor #28 - pretest.



South Hampton - Roof Anchor #34 - post-test.



South Hampton - Roof Anchor - T30 test configuration - test load applied.



South Hampton - Roof Anchor #34 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T30"

REVISION:	DESCRIPTION:	BY:	DATE:
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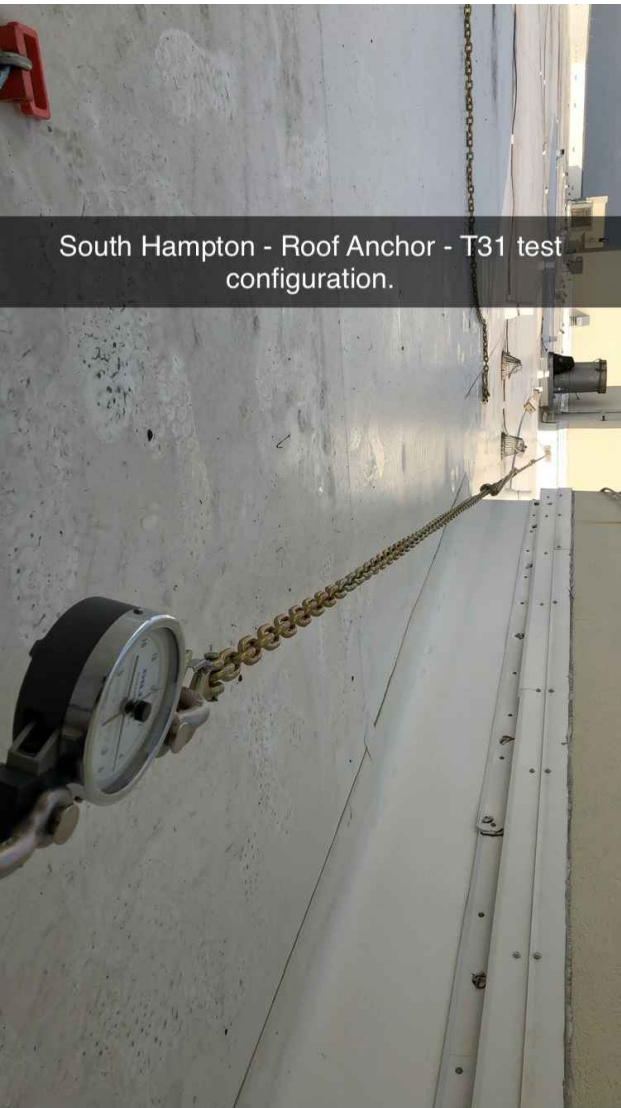
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NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	30 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #36 - post-test.



South Hampton - Roof Anchor - T31 test configuration.



South Hampton - Roof Anchor #36 - pretest.



South Hampton - Roof Anchor #76 - post-test.



South Hampton - Roof Anchor - T31 test configuration - test load applied.



South Hampton - Roof Anchor #76 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T31"

0	IFI	JMB	10/01/19
REVISION:	DESCRIPTION:	BY:	DATE:
STATUS: ISSUED FOR INFORMATION			

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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	31 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #32 - post-test.



South Hampton - Roof Anchor - T32 test configuration.



South Hampton - Roof Anchor #32 - pretest.



South Hampton - Roof Anchor #33 - post-test.



South Hampton - Roof Anchor - T32 test configuration - test load applied.



South Hampton - Roof Anchor #33 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T32"

REVISION:	0	DESCRIPTION:	IF1	BY:	JMB	DATE:	10/01/19
STATUS:	ISSUED FOR INFORMATION						

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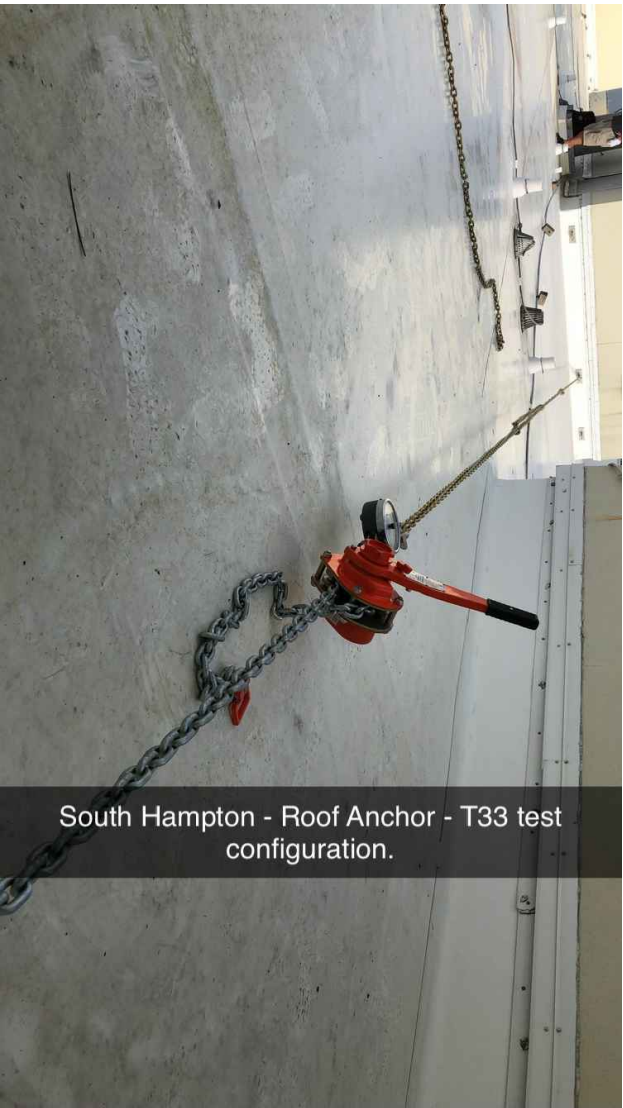
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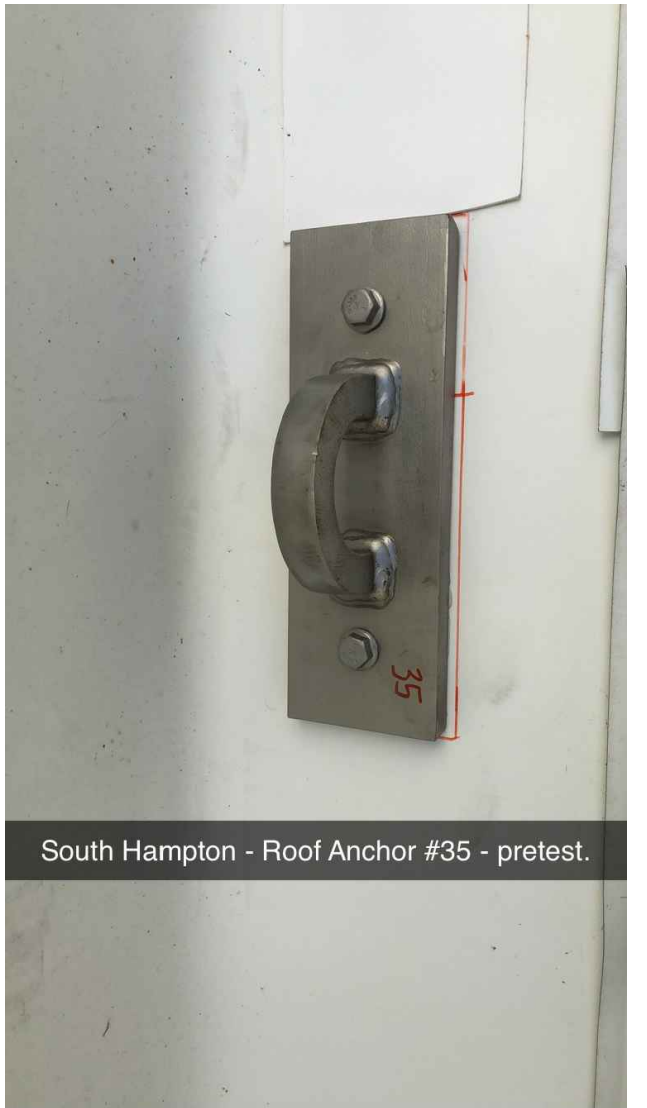
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PROJECT #:	18-LTL-002	SHEET #:	32 OF 48	DRAWING #:	18-LTL-002-6		



South Hampton - Roof Anchor #35 - post-test.



South Hampton - Roof Anchor - T33 test configuration.



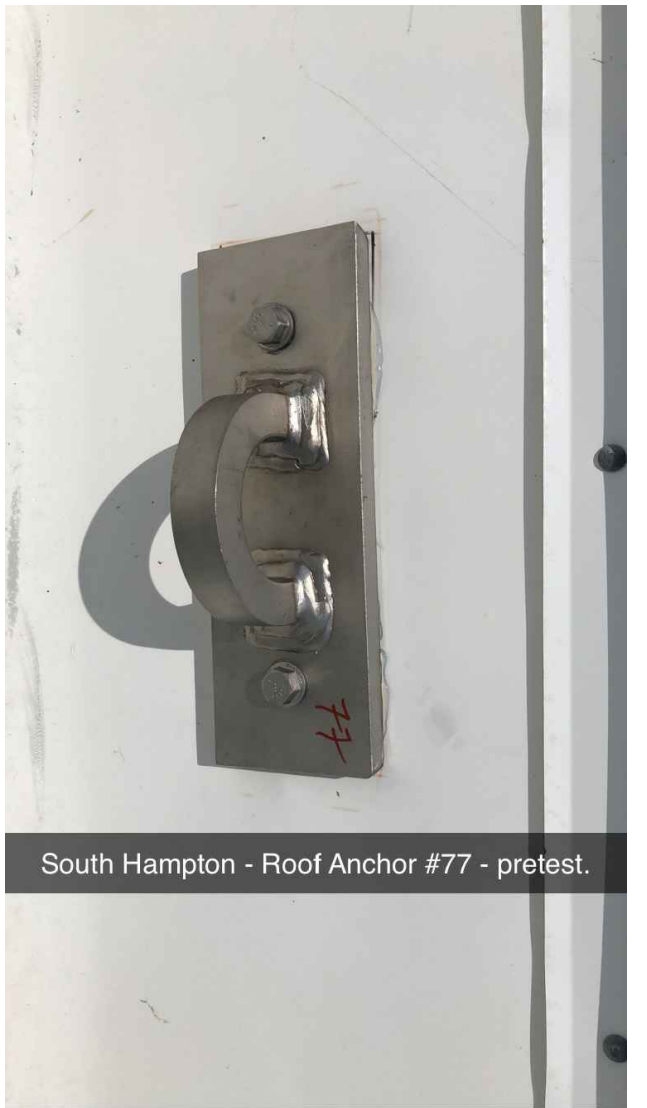
South Hampton - Roof Anchor #35 - pretest.



South Hampton - Roof Anchor #77 - post-test.



South Hampton - Roof Anchor - T33 test configuration - test load applied.



South Hampton - Roof Anchor #77 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T33"

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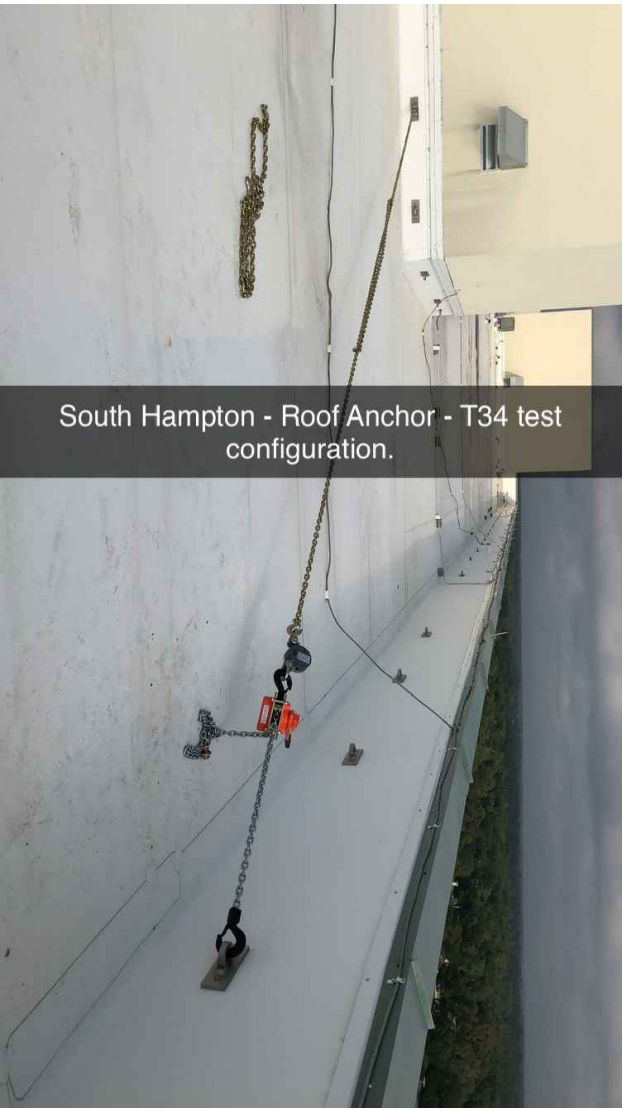
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18-LTL-002	33 OF 48	18-LTL-002-6	



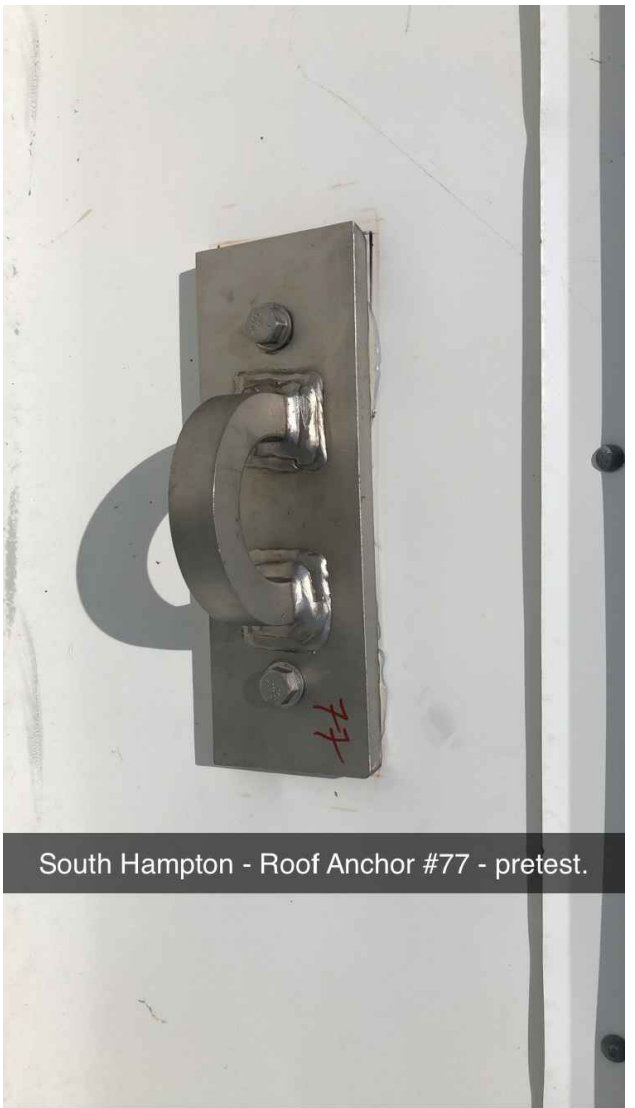
South Hampton - Roof Anchor #38 - pretest.



South Hampton - Roof Anchor - T34 test configuration.



South Hampton - Roof Anchor #38 - post-test.



South Hampton - Roof Anchor #77 - pretest.



South Hampton - Roof Anchor - T34 test configuration - test load applied.



South Hampton - Roof Anchor #77 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T34"

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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	34 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #39 - post-test.



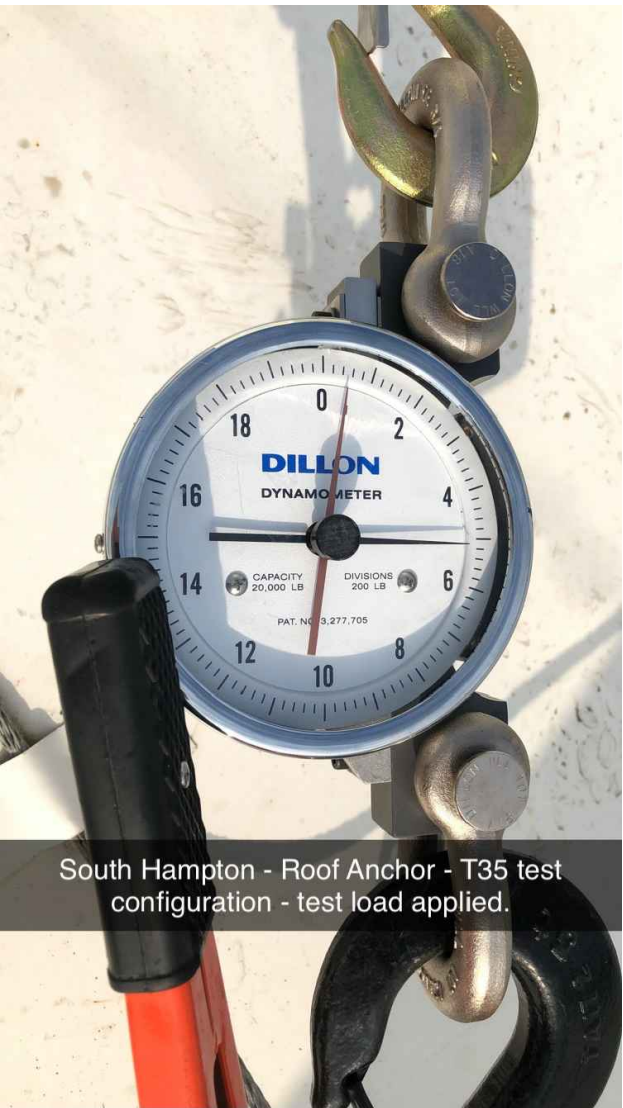
South Hampton - Roof Anchor - T35 test configuration.



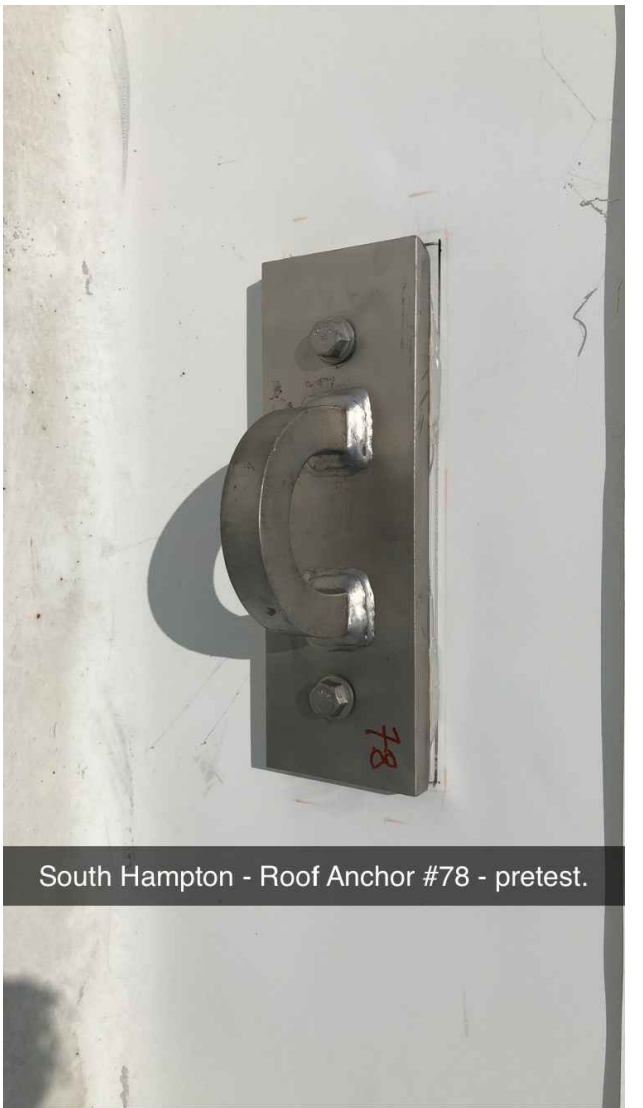
South Hampton - Roof Anchor #39 - pretest.



South Hampton - Roof Anchor #70 - post-test.



South Hampton - Roof Anchor - T35 test configuration - test load applied.



South Hampton - Roof Anchor #78 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T35"

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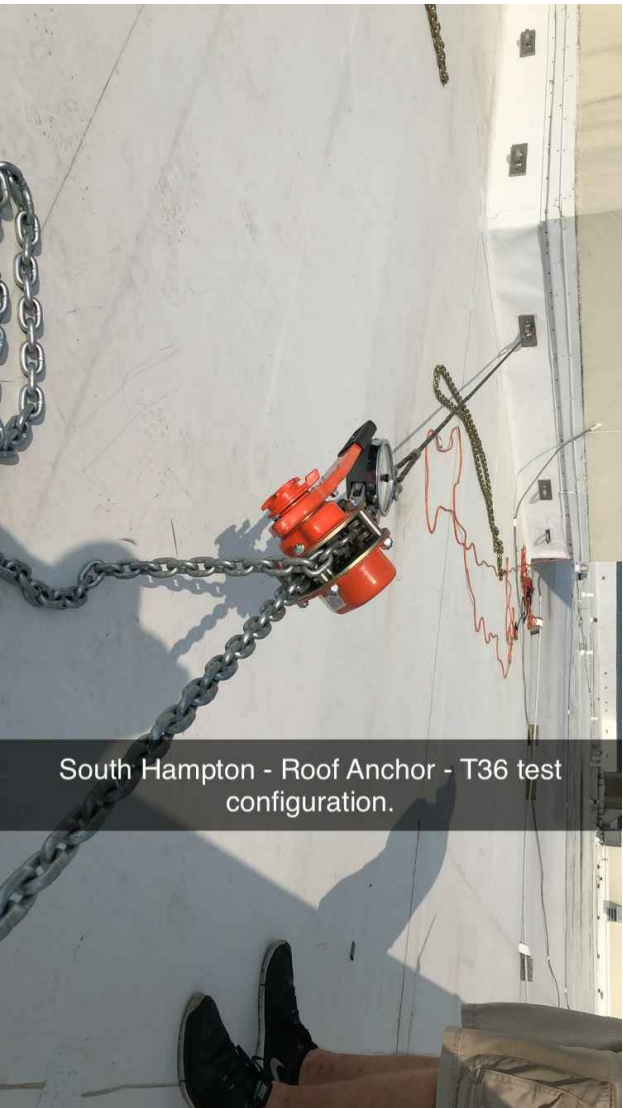
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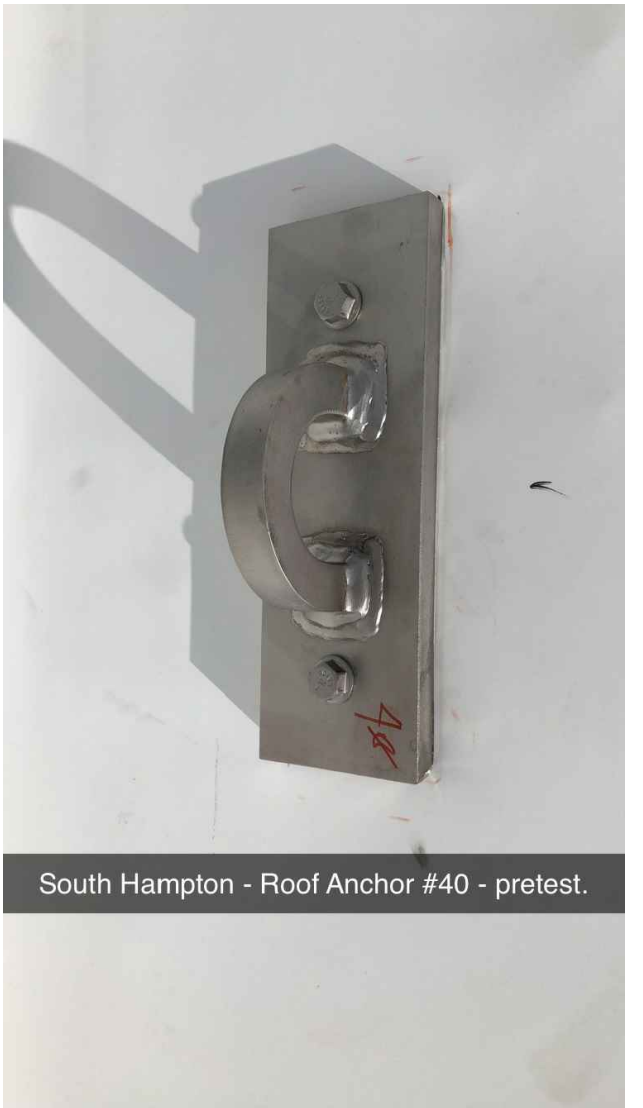
SCALE:	DATE:	DRAWN:	CHECKED:
NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	35 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #40 - post-test.



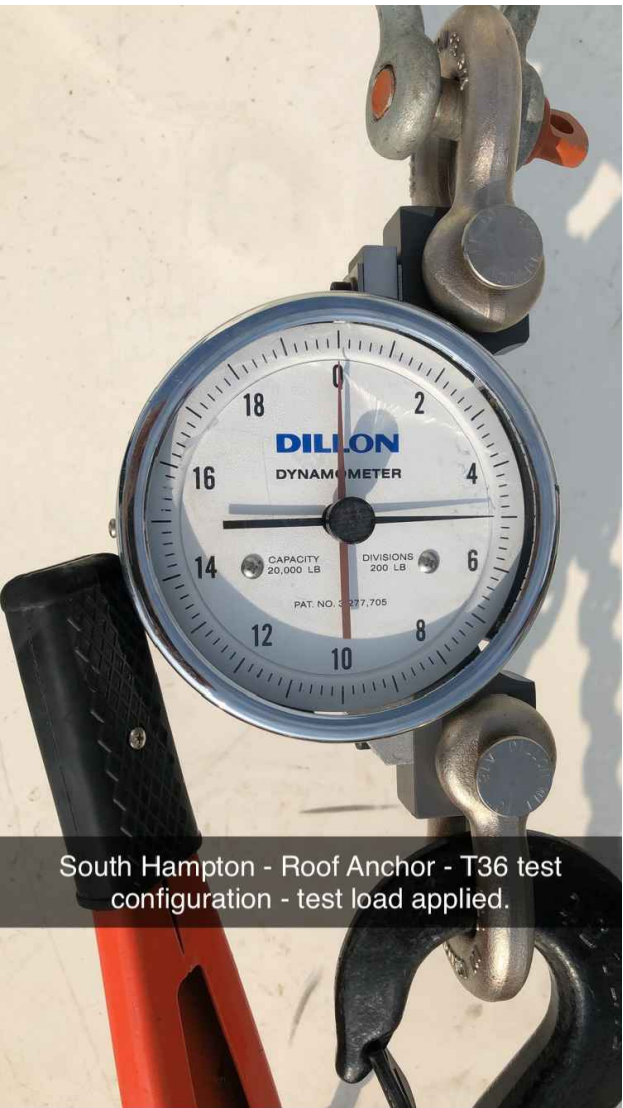
South Hampton - Roof Anchor - T36 test configuration.



South Hampton - Roof Anchor #40 - pretest.



South Hampton - Roof Anchor #79 - post-test.



South Hampton - Roof Anchor - T36 test configuration - test load applied.



South Hampton - Roof Anchor #79 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T36"

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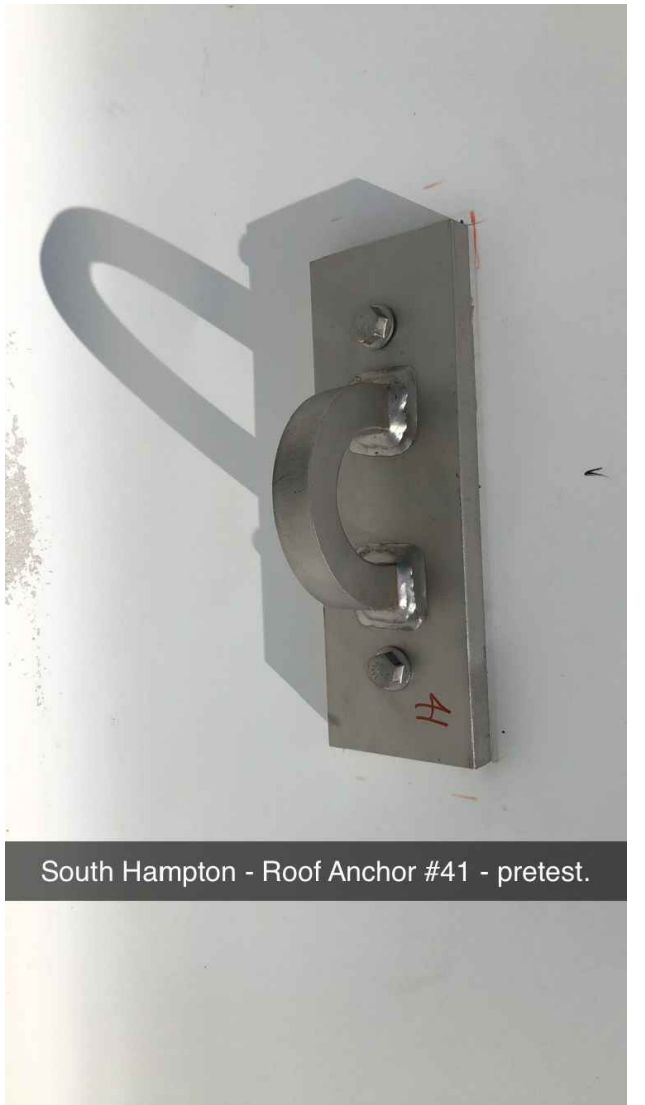
SCALE:	DATE:	DRAWN:	CHECKED:
NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	36 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #41 - post-test.



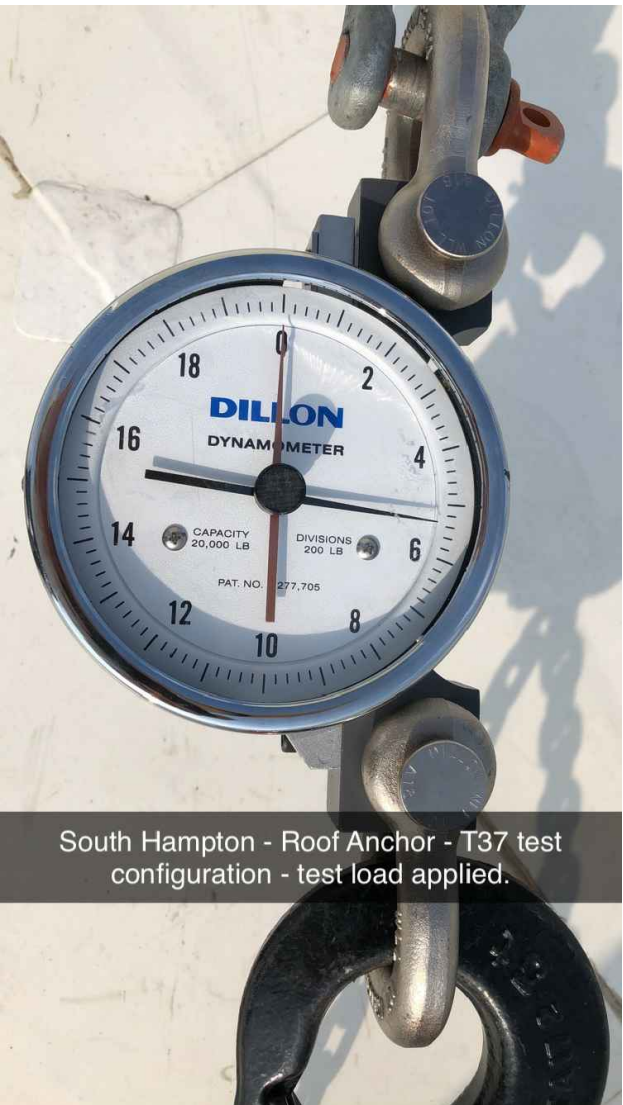
South Hampton - Roof Anchor - T37 test configuration.



South Hampton - Roof Anchor #41 - pretest.



South Hampton - Roof Anchor #80 - post-test.



South Hampton - Roof Anchor - T37 test configuration - test load applied.



South Hampton - Roof Anchor #80 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T37"

REVISION:	DESCRIPTION:	BY:	DATE:
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STATUS: ISSUED FOR INFORMATION

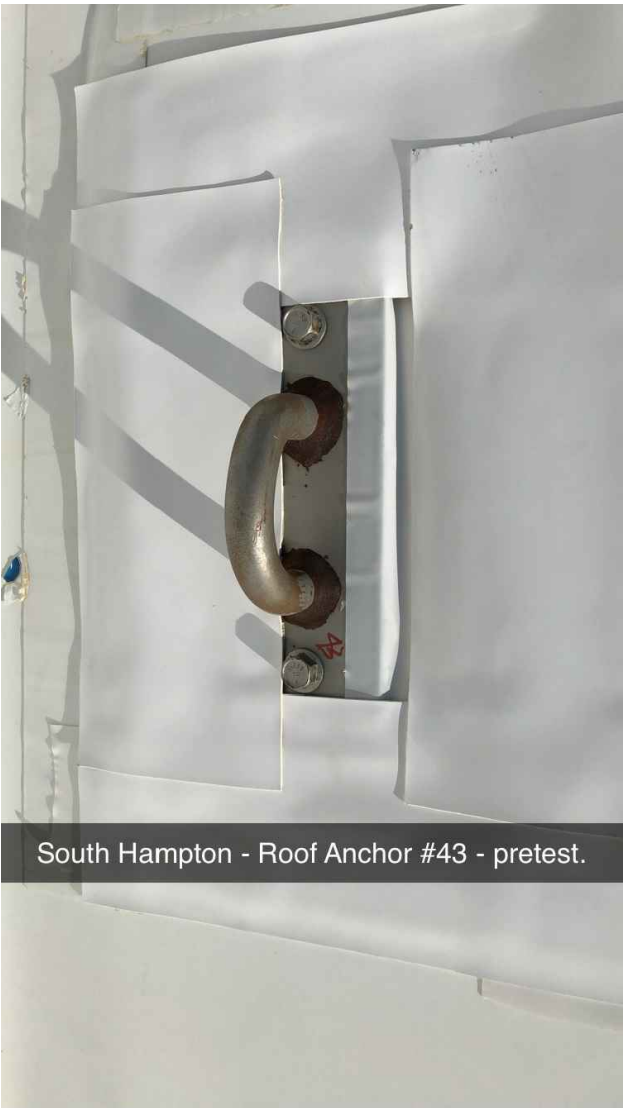
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PROJECT #:	SHEET #:	DRAWING #:	
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South Hampton - Roof Anchor #43 - pretest.



South Hampton - Roof Anchor - T38 test configuration.



South Hampton - Roof Anchor #43 - post-test.



South Hampton - Roof Anchor #81 - pretest.



South Hampton - Roof Anchor - T38 test configuration - test load applied.



South Hampton - Roof Anchor #81 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T38"

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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	38 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #55 - pretest.

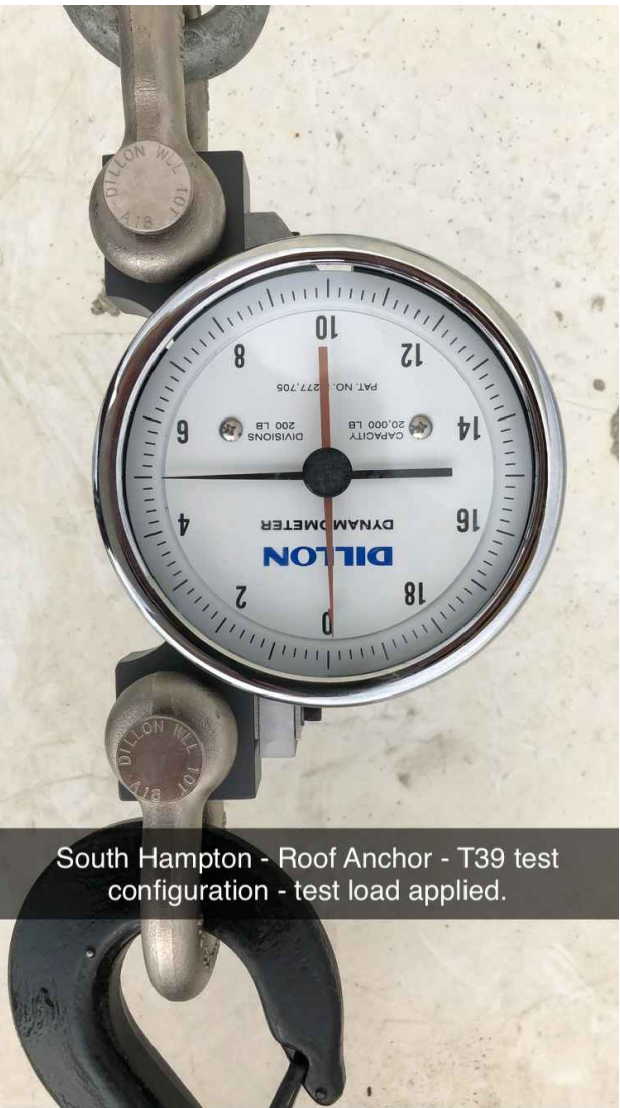
CONFIGURATION PHOTO UNAVAILABLE.
SEE "T44" FOR SIMILAR TEST CONFIGURATION.



South Hampton - Roof Anchor #55 - post-test.



South Hampton - Roof Anchor #70 - pretest.



South Hampton - Roof Anchor - T39 test configuration - test load applied.



South Hampton - Roof Anchor #70 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T39"

REVISION:	DESCRIPTION:	BY:	DATE:
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STATUS: ISSUED FOR INFORMATION



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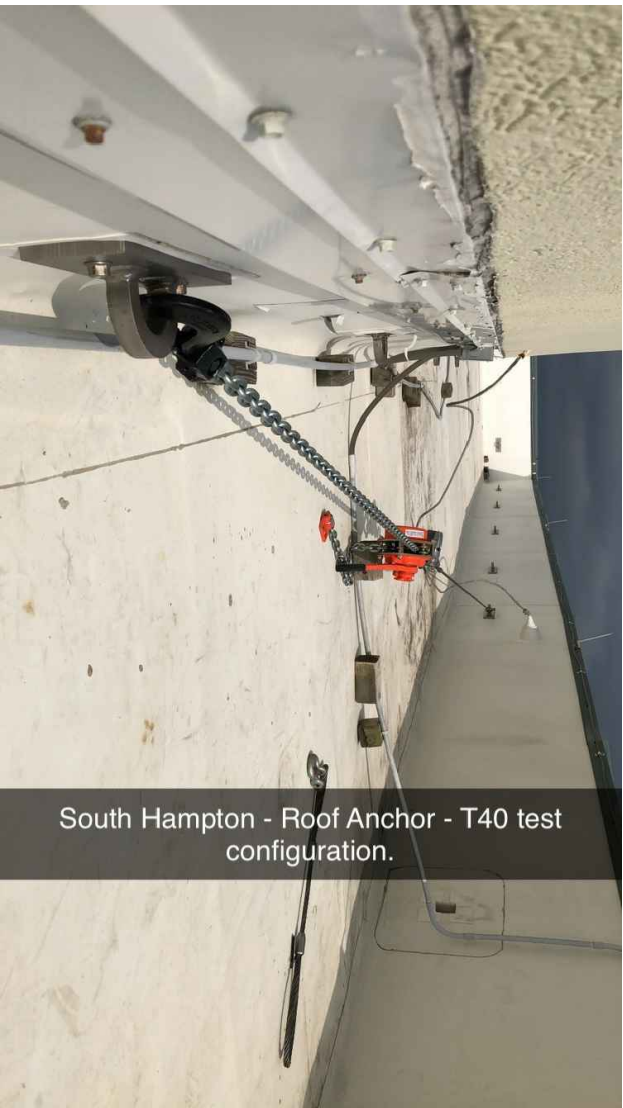
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	39 OF 48	18-LTL-002-6	



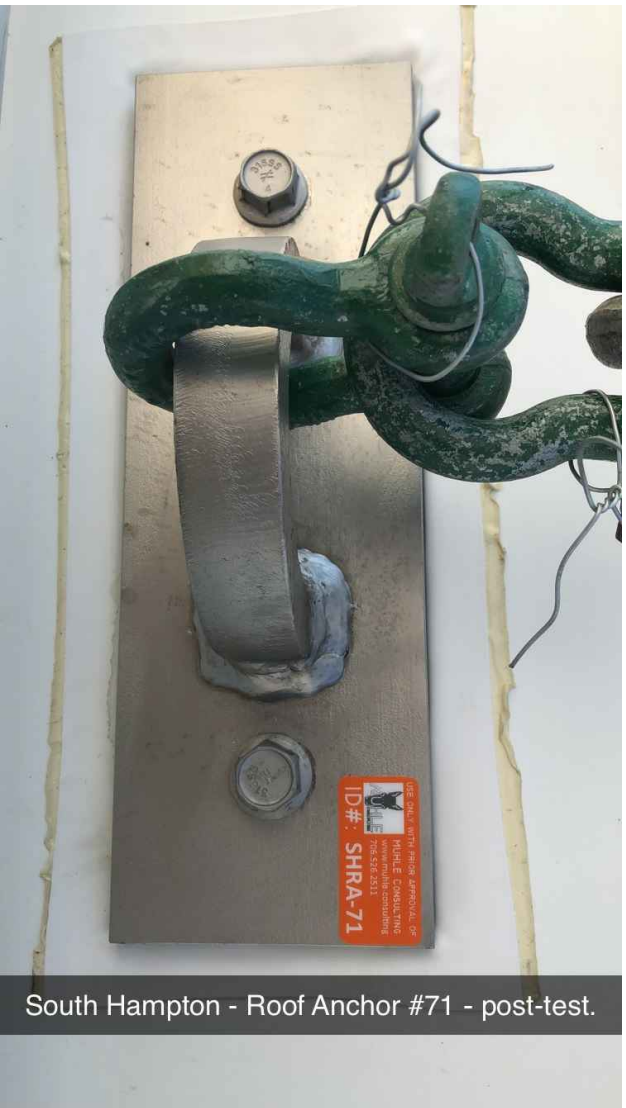
South Hampton - Roof Anchor #56 - post-test.



South Hampton - Roof Anchor - T40 test configuration.



South Hampton - Roof Anchor #56 - pretest.



South Hampton - Roof Anchor #71 - post-test.



South Hampton - Roof Anchor - T40 test configuration - test load applied.



South Hampton - Roof Anchor #71 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T40"

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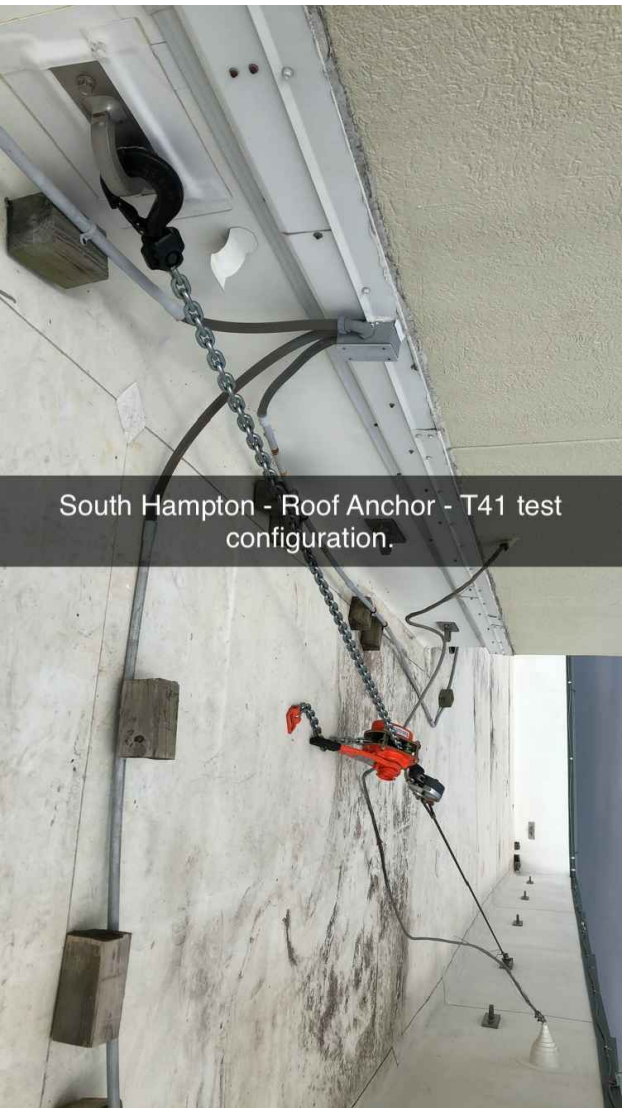
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	40 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #57 - post-test.



South Hampton - Roof Anchor - T41 test configuration.



South Hampton - Roof Anchor #57 - pretest.



South Hampton - Roof Anchor #72 - post-test.



South Hampton - Roof Anchor - T41 test configuration - test load applied.



South Hampton - Roof Anchor #72 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T41"

REVISION	DESCRIPTION:	BY:	DATE:
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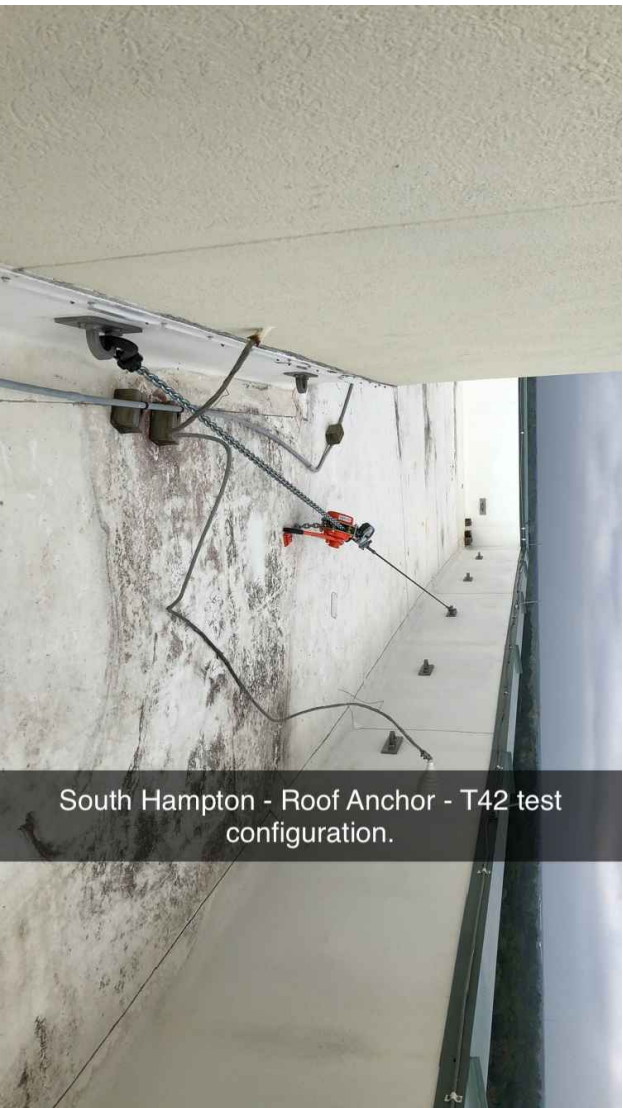
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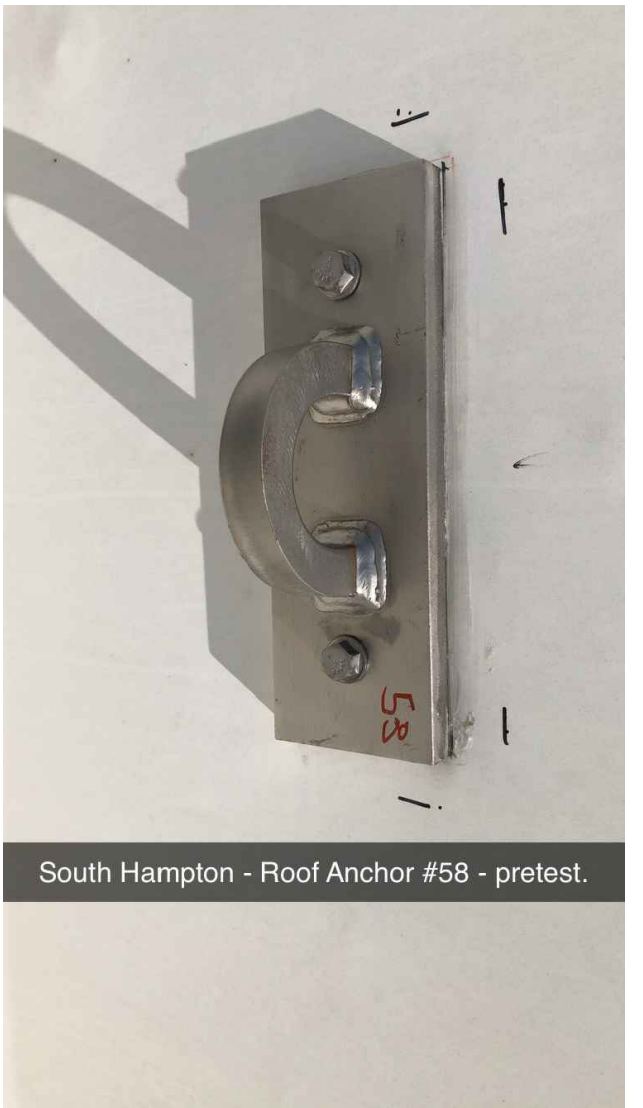
SCALE:	DATE:	DRAWN:	CHECKED:
NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	41 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #58 - post-test.



South Hampton - Roof Anchor - T42 test configuration.



South Hampton - Roof Anchor #58 - pretest.



South Hampton - Roof Anchor #73 - post-test.



South Hampton - Roof Anchor - T42 test configuration - test load applied.



South Hampton - Roof Anchor #73 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T42"

REVISION	DESCRIPTION:	BY:	DATE:
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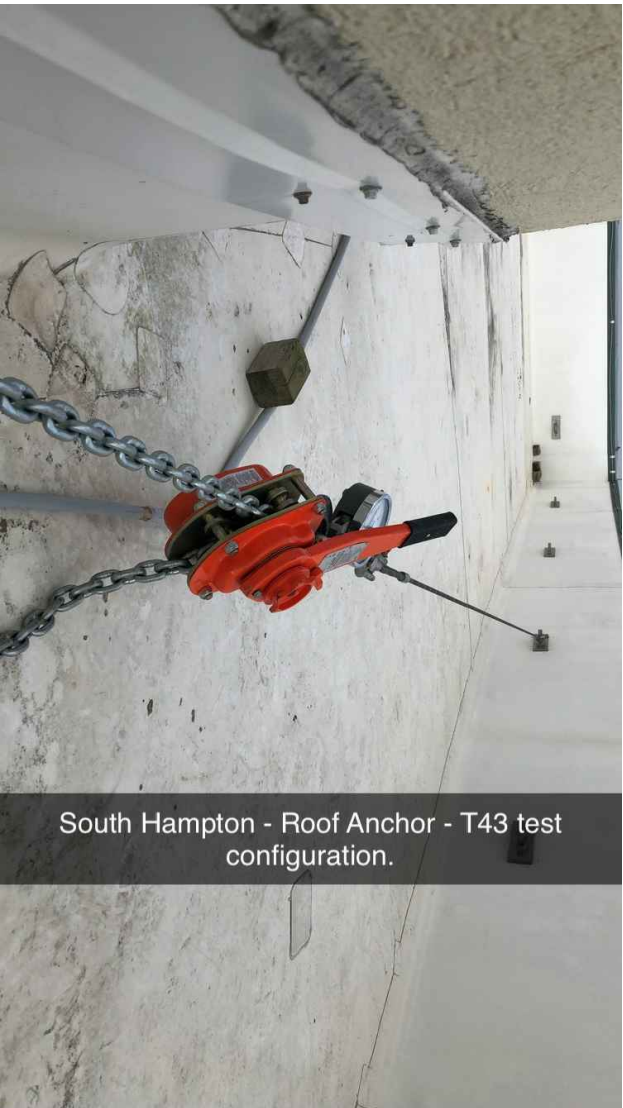
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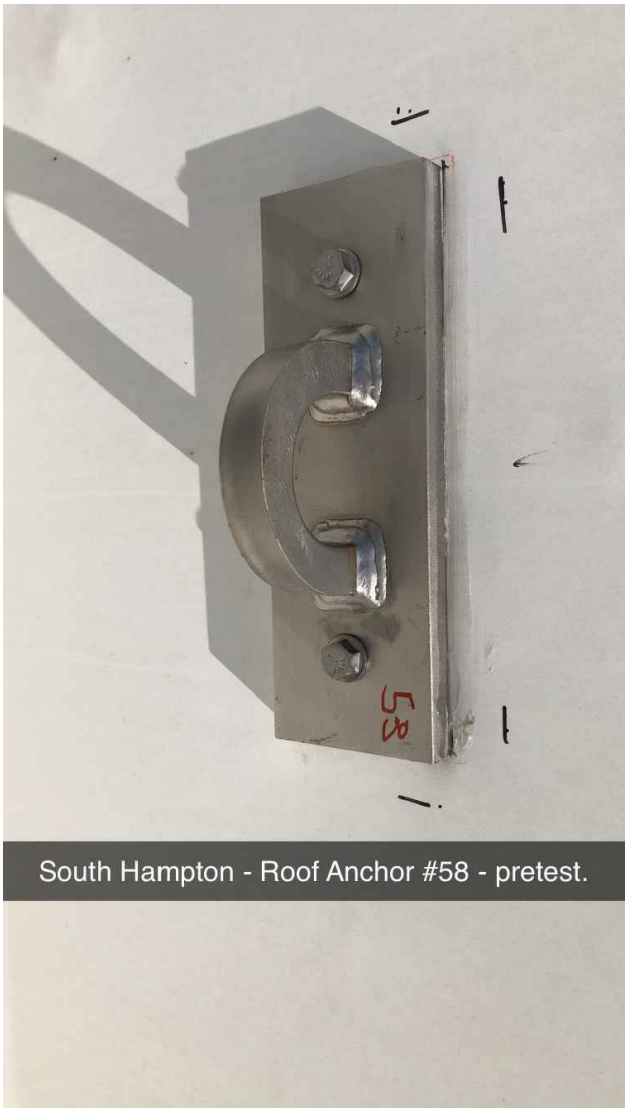
SCALE:	DATE:	DRAWN:	CHECKED:
NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	42 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #58 - post-test.



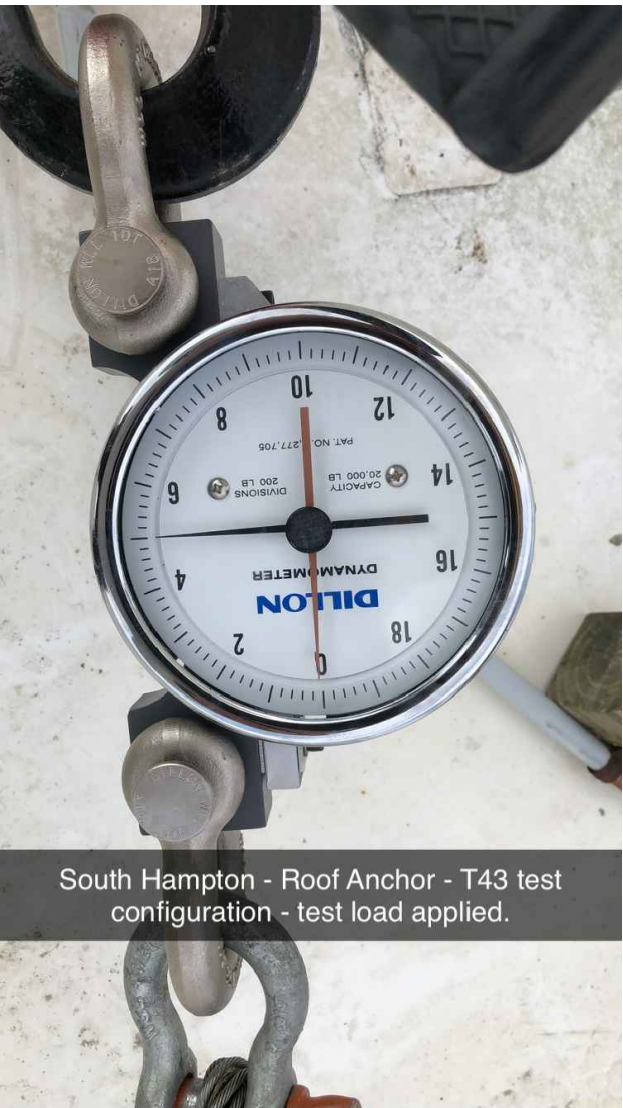
South Hampton - Roof Anchor - T43 test configuration.



South Hampton - Roof Anchor #58 - pretest.



South Hampton - Roof Anchor #74 - post-test.



South Hampton - Roof Anchor - T43 test configuration - test load applied.



South Hampton - Roof Anchor #74 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T43"

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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	43 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #54 - post-test.



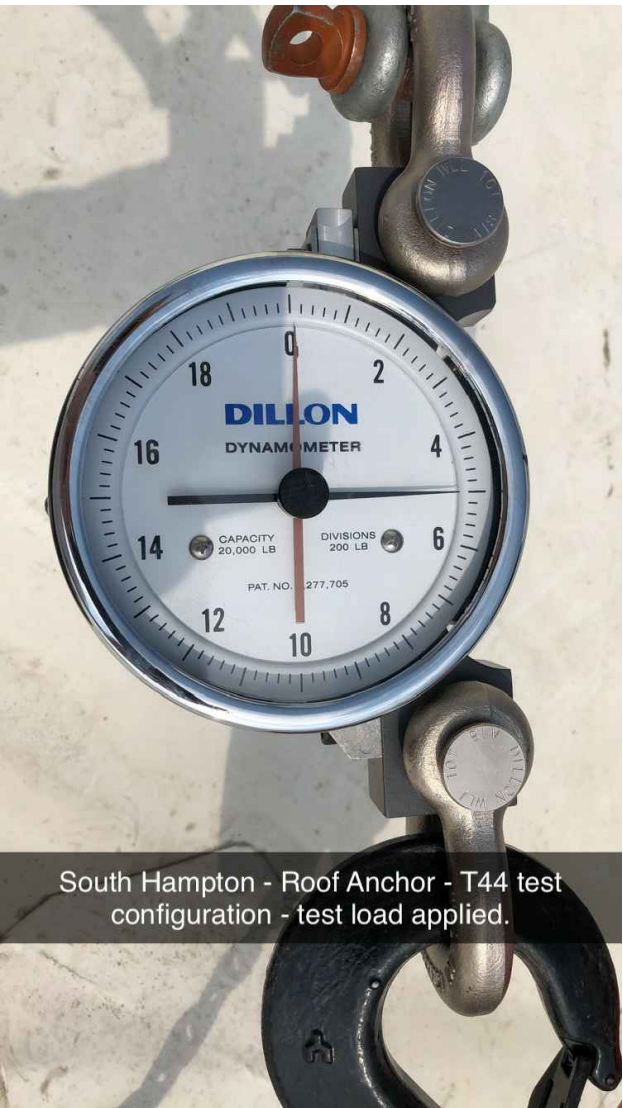
South Hampton - Roof Anchor - T44 test configuration.



South Hampton - Roof Anchor #54 - pretest.



South Hampton - Roof Anchor #69 - post-test.



South Hampton - Roof Anchor - T44 test configuration - test load applied.



South Hampton - Roof Anchor #69 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T44"

0	IF1	JMB	10/01/19
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	44 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #21 - pretest.

CONFIGURATION PHOTO UNAVAILABLE.
SEE "T19" FOR SIMILAR TEST CONFIGURATION.



South Hampton - Roof Anchor #21 - post-test.



South Hampton - Roof Anchor #48 - pretest.



South Hampton - Roof Anchor - T45 test configuration - test load applied.



South Hampton - Roof Anchor #48 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T45"

REVISION:	DESCRIPTION:	BY:	DATE:
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PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	45 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #30 - post-test.



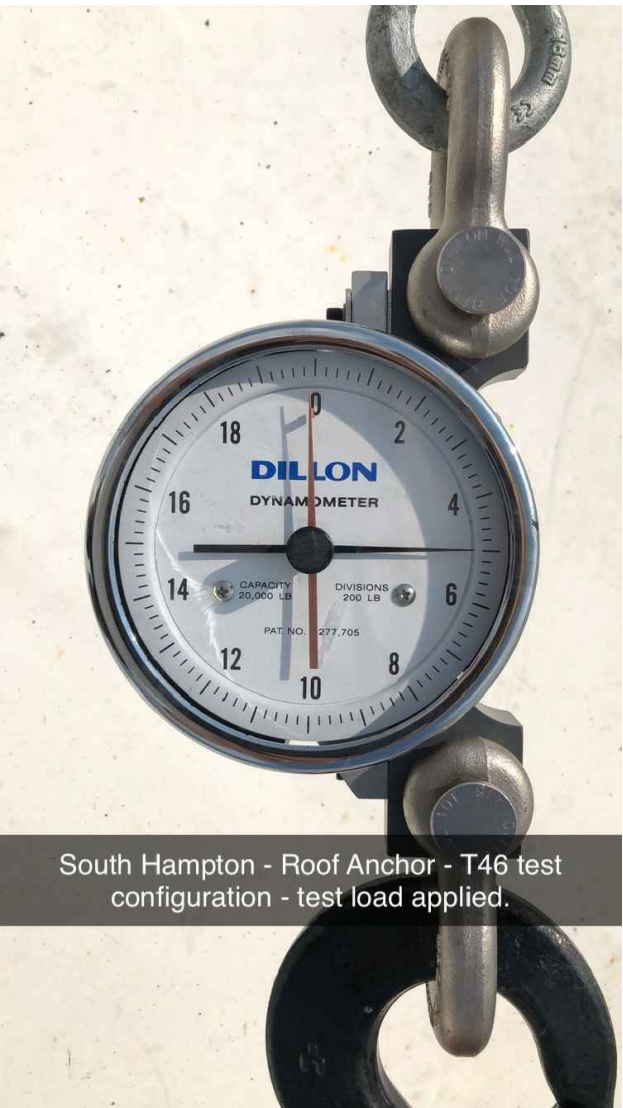
South Hampton - Roof Anchor - T46 test configuration.



South Hampton - Roof Anchor #30 - pretest.



South Hampton - Roof Anchor #34 - post-test.



South Hampton - Roof Anchor - T46 test configuration - test load applied.



South Hampton - Roof Anchor #34 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T46"

REVISION:	DESCRIPTION:	BY:	DATE:
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STATUS: ISSUED FOR INFORMATION

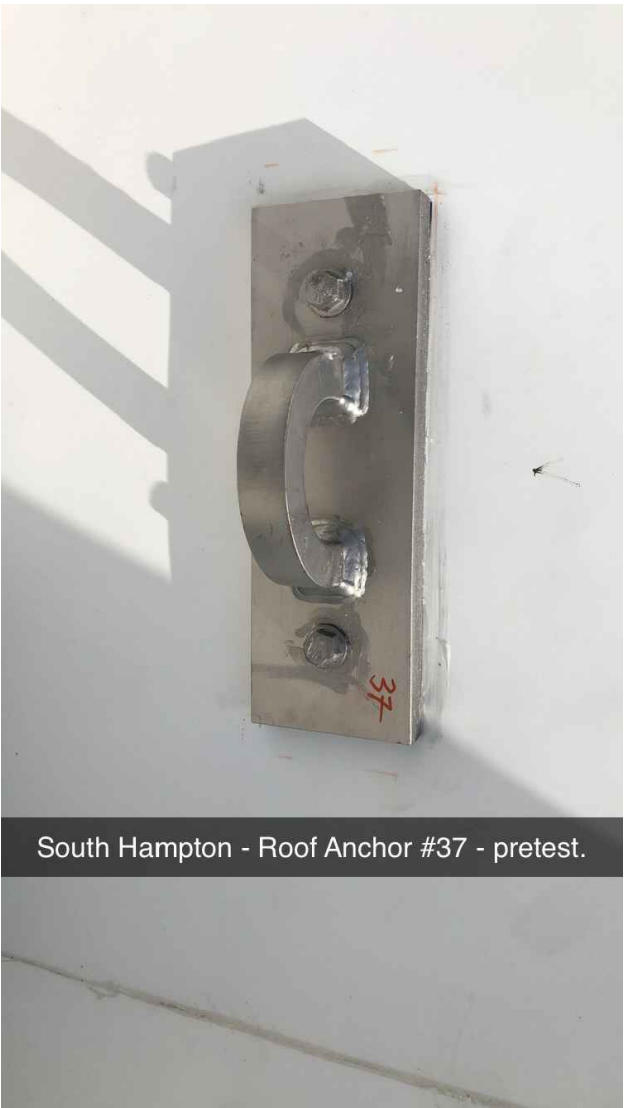
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NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	46 OF 48	18-LTL-002-6	



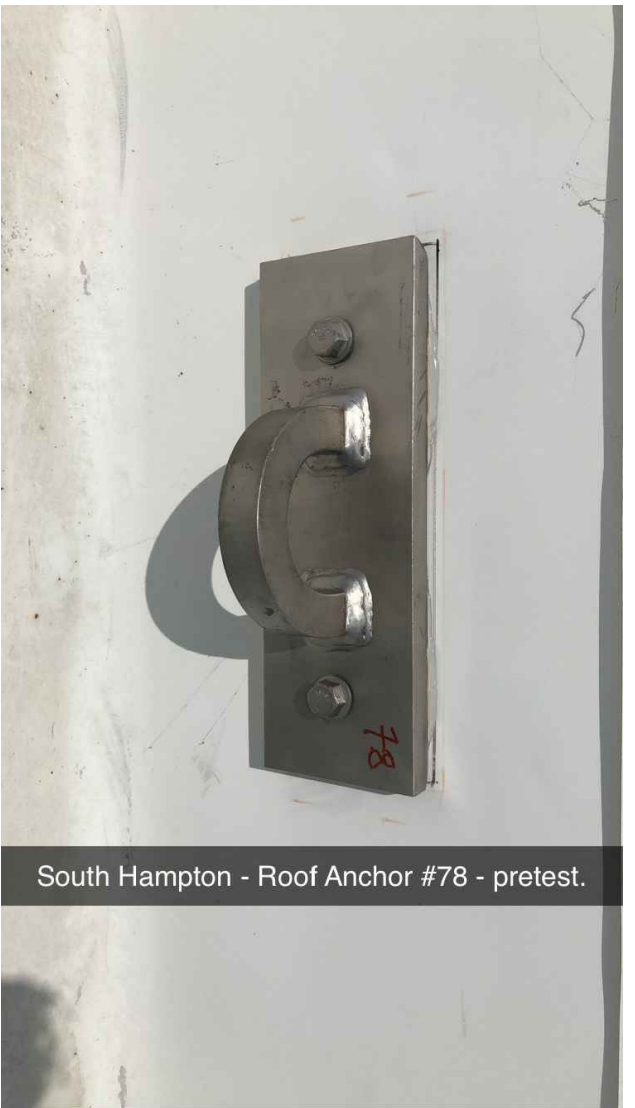
South Hampton - Roof Anchor #37 - pretest.



South Hampton - Roof Anchor - T47 test configuration.



South Hampton - Roof Anchor #37 - post-test.



South Hampton - Roof Anchor #78 - pretest.



South Hampton - Roof Anchor - T47 test configuration - test load applied.



South Hampton - Roof Anchor #78 - post-test.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T47"

REVISION:	DESCRIPTION:	BY:	DATE:
0	IF1	JMB	10/01/19

STATUS: ISSUED FOR INFORMATION

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1413 HWY 17 S
#397
SURFSIDE BEACH, SC
29575
706.526.2511

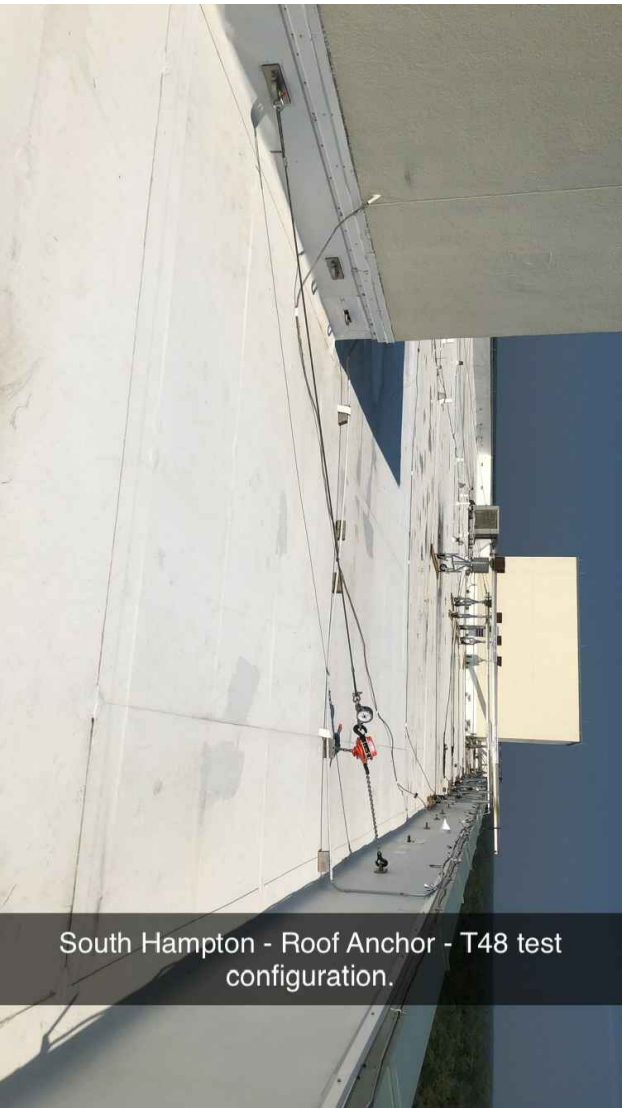
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TITLE:
SOUTH HAMPTON ROOF ANCHOR TESTING DOCUMENTATION

SCALE:	DATE:	DRAWN:	CHECKED:
NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	47 OF 48	18-LTL-002-6	



South Hampton - Roof Anchor #42 - post-test.



South Hampton - Roof Anchor - T48 test configuration.



South Hampton - Roof Anchor #42 - pretest.



South Hampton - Roof Anchor #79 - post-test.



South Hampton - Roof Anchor - T47 test configuration - test load applied.



South Hampton - Roof Anchor #79 - pretest.

NOTE:
1. WORK THIS DRAWING IN CONJUNCTION WITH DRAWING #18-LTL-002-5.

TEST CONFIGURATION "T48"

REVISION:	DESCRIPTION:	BY:	DATE:
0	IF1	JMB	10/01/19

STATUS: ISSUED FOR INFORMATION

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TITLE:
SOUTH HAMPTON ROOF ANCHOR TESTING DOCUMENTATION

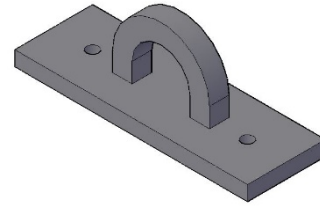
SCALE:	DATE:	DRAWN:	CHECKED:
NO SCALE	10/01/19	JMB	JMB
PROJECT #:	SHEET #:	DRAWING #:	
18-LTL-002	48 OF 48	18-LTL-002-6	



SECTION IV

INSPECTION CERTIFICATION

ROOF ANCHORAGE SYSTEM DOCUMENTATION	
LOCATION:	SOUTH HAMPTON - KINGSTON PLANTATION - MYRTLE BEACH, SC
CURRENT INSPECTION DATE:	10-Oct-19
PREVIOUS INSPECTION DATE:	INITIAL INSPECTION
ANCHOR TYPE:	EQUIPMENT & LIFELINE ANCHOR
ANCHOR MATERIAL:	304L STAINLESS STEEL
NUMBER OF ANCHORS:	81 (SHRA01 - SHRA81)*
*ANCHORS IDENTIFIED USING DRAWING #18-LTL-002-5	



IMPORTANT NOTE: ALL VISUAL INSPECTIONS ARE PERFORMED ABOVE/OUTSIDE ROOF CONSTRUCTION LEVEL. INITIAL VISUAL INSPECTION (PRE-TEST) OF ROOF ANCHORS IS PERFORMED PRIOR TO APPLICATION OF A TEST LOAD. TEST LOAD RECORDINGS ARE PROVIDED IN "TESTING RECORD". A SUBSEQUENT VISUAL INSPECTION (POST-TEST) WAS PERFORMED AFTER THE TEST LOAD WAS REMOVED.

PRE-TEST VISUAL INSPECTION	PASS	FAIL	NOTE
OVERALL SIGNS OF DEFORMITY/DAMAGE	✓		
U-BAR SIGNS OF DEFORMITY/DAMAGE	✓		
STEEL PIER SIGNS OF DEFORMITY/DAMAGE	✓		
CONNECTION ANCHOR IS CORROSION RESISTANT MATERIAL	✓		
RIVETS/WELDS/CONNECTION POINTS HAVE SMOOTH SURFACES	✓		
ANY SIGNS OF SEPARATION	✓		
ANY SIGNS OF CORROSION	✓		
ANY SIGNS OF PITTING	✓		
ANY SIGNS OF CHEMICAL BURNS	✓		
ANY SIGNS OF UV DAMAGE	✓		
ANY OTHER SIGNS OF DAMAGE TO ANCHOR	✓		

POST-TEST VISUAL INSPECTION	PASS	FAIL	NOTE
OVERALL SIGNS OF DEFORMITY/DAMAGE	✓		
U-BAR SIGNS OF DEFORMITY/DAMAGE	✓		
STEEL PIER SIGNS OF DEFORMITY/DAMAGE	✓		
CONNECTION ANCHOR IS CORROSION RESISTANT MATERIAL	✓		
RIVETS/WELDS/CONNECTION POINTS HAVE SMOOTH SURFACES	✓		
ANY SIGNS OF SEPARATION	✓		
ANY SIGNS OF CORROSION	✓		
ANY SIGNS OF PITTING	✓		
ANY SIGNS OF CHEMICAL BURNS	✓		
ANY SIGNS OF UV DAMAGE	✓		
ANY OTHER SIGNS OF DAMAGE TO ANCHOR	✓		

NOTE:

- BUILDING OWNER MUST KEEP THIS RECORD READILY AVAILABLE.
- ANCHORAGE SYSTEM MUST BE INSPECTED AND RE-CERTIFIED UNDER SUPERVISION OF A PE EVERY 12 MONTHS (MINIMUM).
- IN THE EVENT OF AN ACCIDENT, OR IF ANCHORS ARE SUBJECTED TO IMPACT LOADING, EXPOSURE TO CHEMICALS, DAMAGES OR ANY OTHER CHANGES: THE ROOF ANCHOR SYSTEM MUST BE REMOVED FROM SERVICE UNTIL FULLY INSPECTED, LOAD TESTED AND RE-CERTIFIED UNDER THE SUPERVISION OF A PE AND DEEMED SUITABLE FOR USE.
- ANCHORAGE SYSTEM MUST BE INSPECTED BY A COMPETENT PERSON PRIOR TO EACH USE.
- ONLY TRAINED PERSONNEL WHO HAVE THE NECESSARY TRAINING AND COMPETENCE ARE PERMITTED TO USE ANCHORAGE SYSTEM. PRIOR AUTHORIZATION FROM THE RESPONSIBLE PERSON TO ACCESS ANCHORAGE SYSTEM MUST BE FIRST OBTAINED.
- ALL SAFETY PROCEDURES MUST BE COMPLIED WITH AS STATED IN THE CURRENT OSHA REGULATIONS AS WELL AS ANY OTHER APPLICABLE CODES OF PRACTICE BY ANY PERSON USING ROOF ANCHOR SYSTEM.
- AN APPROVED FULL BODY HARNESS WITH ENERGY ABSORBER IN COMPLIANCE WITH CODE MUST BE WORN BY ANY PERSON CONNECTED TO ROOF ANCHOR SYSTEM AND MUST BE TIED OFF TO AN ANCHOR SEPARATE FROM THE EQUIPMENT ANCHOR.

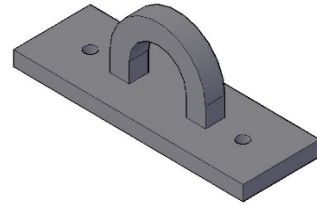

 Jonathan Black, PE



SECTION V

TESTING CERTIFICATION

ROOF ANCHORAGE SYSTEM DOCUMENTATION	
LOCATION:	SOUTH HAMPTON - KINGSTON PLANTATION - MYRTLE BEACH, SC
CURRENT LOAD TESTING DATE:	10-Oct-19
PREVIOUS LOAD TESTING DATE:	INITIAL TESTING
ANCHOR TYPE:	EQUIPMENT & LIFELINE ANCHOR
ANCHOR MATERIAL:	304L STAINLESS STEEL
NUMBER OF ANCHORS:	81 (SHRA01 - SHRA81)*
CONTROLLED LOAD APPLIED:	5,000 LBS
<i>*ANCHORS IDENTIFIED USING DRAWING #18-LTL-002-5</i>	



MONITORING WHILE CONTROLLED LOADING IS APPLIED	PASS	FAIL	NOTE
PRE-TEST INSPECTION PERFORMED BY PROFESSIONAL ENGINEER	✓		
ANCHOR INSTALLMENT ALIGNS WITH BUILDING SUPPORT STRUCTURE	✓		
PROFESSIONAL ENGINEER OBSERVED ANCHORS DURING LOADING	✓		
ANY DEFLECTION OF ANCHOR NOTED	✓		
INTEGRITY OF WELDS SUSTAINED	✓		
RIVETS/WELDS/CONNECTION POINTS SUSTAINED	✓		
ANY SIGNS OF SEPARATION	✓		
ANY SIGNS OF PITTING	✓		
ANY OTHER SIGNS OF DAMAGE TO ANCHOR	✓		

RIGGING EQUIPMENT COMPLIANCE	PASS	FAIL	NOTE
EQUIPMENT CERTIFICATES OF COMPLIANCE ARE CURRENT	✓		
EQUIPMENT CERTIFICATES OF CALIBRATION ARE CURRENT	✓		
ALL EQUIPMENT LOAD RATED FOR MINIMUM 5,000 LBS	✓		

NOTE:

1. ANCHORAGE ALLOWABLE WORKING LOAD LIMIT IS 1,000 LBS PER ANCHOR.
2. BUILDING OWNER MUST KEEP THIS RECORD READILY AVAILABLE.
3. ANCHORAGE SYSTEM MUST BE INSPECTED AND RE-CERTIFIED UNDER SUPERVISION OF A PE EVERY 12 MONTHS (MINIMUM).
4. IN THE EVENT OF AN ACCIDENT, OR IF ANCHORS ARE SUBJECTED TO IMPACT LOADING, EXPOSURE TO CHEMICALS, DAMAGES OR ANY OTHER CHANGES: THE ROOF ANCHOR SYSTEM MUST BE REMOVED FROM SERVICE AND NOT USED AGAIN UNTIL FULLY INSPECTED, LOAD TESTED AND RE-CERTIFIED UNDER THE SUPERVISION OF A PE AND DEEMED SUITABLE FOR USE.
5. ANCHORAGE SYSTEM MUST BE INSPECTED BY A COMPETENT PERSON PRIOR TO EACH USE.
6. ONLY TRAINED PERSONNEL WHO HAVE THE NECESSARY TRAINING AND COMPETENCE ARE PERMITTED TO USE ANCHORAGE SYSTEM. PRIOR AUTHORIZATION FROM THE RESPONSIBLE PERSON TO ACCESS ANCHORAGE SYSTEM MUST BE FIRST OBTAINED.
7. ALL SAFETY PROCEDURES MUST BE COMPLIED WITH AS STATED IN THE CURRENT OSHA REGULATIONS AS WELL AS ANY OTHER APPLICABLE CODES OF PRACTICE BY ANY PERSON USING ROOF ANCHOR SYSTEM.
8. AN APPROVED FULL BODY WITH ENERGY ABSORBER IN COMPLIANCE WITH CODE MUST BE WORN BY ANY PERSON CONNECTED TO ROOF ANCHOR SYSTEM AND MUST BE TIED OFF TO AN ANCHOR SEPARATE FROM THE EQUIPMENT ANCHOR.

Jonathan Black, PE



SECTION V

TEST EQUIPMENT CERTIFICATION

REGISTERED FIRM
 ISO 9001:2008
 CERTIFICATE QSR-398

HOIST DIVISION
 Damascus Operations
 22364 JEB STUART HIGHWAY
 DAMASCUS, VA 24236-2504
 276/475-3124 FAX: 276/475-3531



Columbus McKinnon Corporation Certificate of Conformance					
CMCO Item No.	5321	Series/Model	653	Serial No. <small>(<input type="checkbox"/> not applicable)</small>	YC-T8455
Upper Hook Trace Code <small>(<input type="checkbox"/> not applicable)</small>	N/A	Lower Hook Trace Code <small>(<input type="checkbox"/> not applicable)</small>	N/A	Load Chain Trace Code <small>(<input type="checkbox"/> not applicable)</small>	DVL
Capacity (Metric Tons)	3 ton	Test Load Applied <small>(<input checked="" type="checkbox"/> Check if applicable)</small>	125% Rated Load		
Load Chain Lift <small>(<input type="checkbox"/> Check If applicable)</small>	10'	Hand Chain Length <small>(<input type="checkbox"/> Check if applicable)</small>	N/A		
<p>This is to certify that, at the time of manufacture, the above listed CMCO product and materials have been manufactured and inspected by a competent person and conforms to CMCO design requirements, the CMCO purchase order, and CMCO's interpretation of applicable standards of external origin, ASME B30.21 "Manually Lever Operated Hoists"; ASME B30.16 "Overhead Hoists (Underhung)", (e.g. hand, electric, air hoists) and trolleys.</p> <p>For products requiring load testing (if 'Test Load Applied' box above is checked): This is to certify that above listed CMCO product and materials have been manufactured, inspected and tested with the above listed test load by a competent person and conforms to CMCO design requirements, the CMCO purchase order, and CMCO's interpretation of applicable standards of external origin.</p>					
Inspector	2115, 2093	Date of Inspection and Acceptance:	4-19-18		
CAUTION					
<p>The rated capacity stated on the hoist is the maximum permissible working load and should not be exceeded.</p> <p>The accompanying product manual contains important information for the correct installation, operation, and maintenance of the equipment described herein. All persons involved in such installation, operation, and maintenance should be thoroughly familiar with the contents of the manual. To safeguard against the possibility of personal injury or property damage, follow the recommendations and instructions of this manual and keep it for further reference.</p>					
WARNING					
<p>The above described product is intended for industrial use only and should not be used to lift, support, or otherwise transport people.</p>					

Certificate of Calibration

206246

DILLON

A Division of Avery Weigh-Tronix Inc.
Force Measurement Products & Systems

PO Box 1000
1000 Armstrong Drive
Fairmont, MN 56031-1000, USA
Telephone +1 507-238-4461
Facsimile +1 507-238-8258

Product Information

Serial Number: E 21763
Part Number: 30006-0100
Description: 5in Dyna 20000 lb
Calibration Date: 5/ 9/2018
*Calibration In Service Date _____
Calibrated By: Denise Yahnke
Notes: N492705K
Unit Condition: New

Capacity: 20,000.000 LB
Temperature/Humidity: 70.60 °F/38.10%
Guaranteed Accuracy: ± 0.50 %of Capacity

Signature: Denise Yahnke
Authorized Dillon Representative

Calibration Data

Standard (units LB)	Tolerance		Verification Run (units LB)	Error (units LB)
	Maximum	Minimum		
4,000.000	4,100.000	3,900.000	3,965.000	-35.00
8,000.000	8,100.000	7,900.000	7,994.000	-6.00
12,000.000	12,100.000	11,900.000	12,008.000	8.00
16,000.000	16,100.000	15,900.000	16,018.000	18.00
20,000.000	20,100.000	19,900.000	20,042.000	42.00

* After In Service Calibration Date, normal calibration cycle should begin

Calibration Equipment Standards Used

Equipment Description: Instron-0166
Equipment Serial Number: 0166
Load Range: 22,000 LB

Calibration Source: G583940J
Calibration Date: 7/13/2017
Calibration Due Date: 7/13/2018
Calibration Procedure: 45547-0013

The instruments used in the calibration of this equipment have been calibrated by certified standards traceable to the National Institute of Standards and Technology (N.I.S.T.). Calibration services were performed under a controlled Quality Assurance Program which complies to ISO-9001. These results relate only to the items calibrated or tested referenced in this document. This certificate shall not be reproduced except in full, without the written approval of Avery Weigh-Tronix. Avery Weigh-Tronix guarantees the product to be in calibration at the time of shipment. No degradation of calibration occurs before shipping while the product remains in our controlled stock environment.

