



Engineered Tower Solutions
2624 Leighton Ridge Dr., Suite 100
Wake Forest, NC 27587

(919) 782 2710
(919) 782 2495
150763

TOWER-POST MODIFICATION SPECIAL INSPECTION MONOPOLE



**North Haven CT 1
302482**

PREPARED FOR:



AMERICAN TOWER®
CORPORATION

PREPARED BY:

Tarma Fontaine
Project Manager
Engineered Tower Solutions, PLLC

DATE:

July 31, 2015





SI REPORT SUMMARY

CLIENT:	<u>American Tower Corporation</u>	DATE AT SITE:	<u>Friday, July 24, 2015</u>
SITE NAME:	<u>North Haven CT 1</u>	ATC PROJECT#:	<u>60261733</u>
SITE NUMBER:	<u>302482</u>	TOWER TYPE:	<u>MONOPOLE</u>
ADDRESS:	<u>15 Dewight St</u>	TOWER HEIGHT:	<u>150'</u>
	<u>North Haven, CT 06473</u>	WEATHER:	<u>Partly Cloudy, 69°F, Wind 4-10 MPH</u>
LEAD:	<u>Edward Williams</u>	SUPPORT:	<u>Bryson Williams</u>

PROJECT SUMMARY:

Subject: **TOWER-POST MODIFICATION SPECIAL INSPECTION**

Location: 15 Dewight St
North Haven, CT 06473
Lat: 41.4208 °N Long: 72.8488 °W

Structure: **MONOPOLE**

Purpose: The purpose of this special inspection report is to ensure that the proposed construction and or construction activities have been completed and undertaken per design and meet all required Codes, Specifications, and Guidelines.

PARTICIPATION PERSONNEL

ATC Representatives: Billy Gore
Sr. Project Manager - Northeast Redevelopment
900 Circle 75, Suite 300, Atlanta, GA 30339
(770) 308 1999

Engineer of Record: Scott A. Wirgau, P.E.
Structural Team Leader
ATC Tower Services, Inc.
3500 Regency Pkwy, Suite 100, Cary, NC 27518
(919) 468 0112

General Contractor: Aaron Spencer
Kent Power Inc.
90 Spring St., Kent City, MI 49330
(616) 678 5775

SUPPLEMENTAL INFORMATION

Appendix A - Special Inspection Checklist

Appendix B - EOR Approval Email

Appendix C - Modification Drawings - Redlined



SI REPORT CHECKLIST

CLIENT:	<u>American Tower Corporation</u>	DATE AT SITE:	<u>Friday, July 24, 2015</u>
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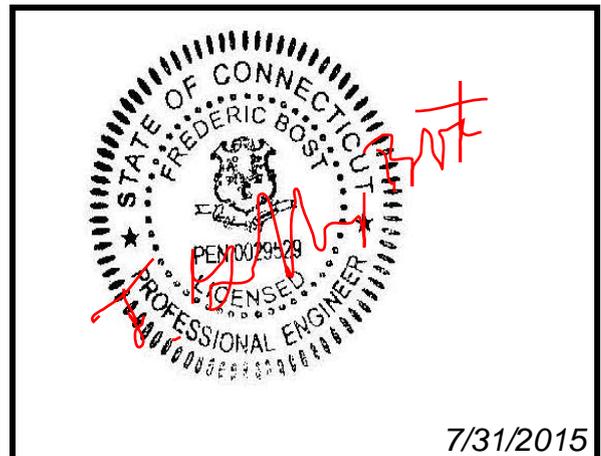
PROJECT

Subject: **TOWER-POST MODIFICATION SPECIAL INSPECTION**

Structure: **MONOPOLE**

Inspection Approvals:

TOWER-POST MODIFICATION SI	
EW/BW	Fit-up of materials
EW/BW	Material grade, shape, fabrication, placement
EW/BW	Verification of proper material coating
EW/BW	Structural weld verification
EW/BW	Structural bolting / Expansion bolting verification
N/A	Guy tension verification
EW/BW	Full installation verifications per design



7/31/2015

CLIENT:	American Tower Corporation	DATE AT SITE:	Friday, July 24, 2015
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Inspection Item Description

All modifications are within conformance to the modification documents provided by ATC Towers Services, Inc., ATC Project Number : 60261733, Dated: December 29, 2014 with no deviations or EOR approval required.

ETS used contractor photos to inspect corrections to deviations identified during inspection.



TOWER-POST MODIFICATION SPECIAL INSPECTION



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APPENDIX A

SI Checklist

ATC SI CHECKLIST NOT PROVIDED



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APPENDIX B
MODIFICATION DRAWING-REDLINED

SEE FOLLOWING PAGES



AMERICAN TOWER®

C O R P O R A T I O N

ATC TOWER SERVICES, INC.
3500 REGENCY PARKWAY, SUITE 100
CARY, NORTH CAROLINA 27518
PHONE: (919) 468-0112 / FAX: (919) 466-5040

302482 - NORTH HAVEN CT 1, CONNECTICUT 150 FT MONOPOLE MODIFICATIONS

PROJECT DESCRIPTION:

THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 60261722 DATED 11/10/14. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.

AS-BUILT SIGN-OFF

DESCRIPTION	SIGNATURE	DATE
CONTRACTOR NAME	Kent Power Inc	7-24-15
CONTRACTOR REP. (PRINT NAME)	Jason Dan	7-24-15
CONTRACTOR REP. (SIGNATURE)	<i>[Signature]</i>	7-24-15
REDEVELOPMENT P.M. (PRINT NAME)		
REDEVELOPMENT P.M. (SIGNATURE)		

PROJECT SUMMARY

ATC PROJECT NUMBER: 60261734

CUSTOMER: AT&T MOBILITY

CUSTOMER SITE NUMBER: CT2012/FA#10034972

CUSTOMER SITE NAME: NORTH HAVEN - DWIGHT STREET

SITE ADDRESS: 15 DEWIGHT STREET
NORTH HAVEN, CT 06473

DATE: 01/19/15

REVISION: 0



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the state of Connecticut.

SHEET

SHEET TITLE

REV.

BOM	BILL OF MATERIALS (1 PAGE)	0
IGN	IBC GENERAL NOTES	0
A-1	MODIFICATION PROFILE	0
A-2	REINFORCEMENT INSTALLATION DETAILS	0
A-2A	REINFORCEMENT INSTALLATION DETAILS (CONT'D)	0
F-1	TRANSITION WELDMENT FABRICATION DETAILS	0
F-2	#20 BAR BRACKET [W8X21 T-BRACKET]	0
F-3	TERMINATION BRACKET FABRICATION DETAILS	0
#20SB	#20 STEP BOLT BRACKET FABRICATION AND INSTALLATION DETAILS	0

BILL OF MATERIALS

QUANTITY REQUIRED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTION	LENGTH	SHEET LIST	PART WEIGHT	WEIGHT (lb)	NOTES
DYWIDAG REINFORCEMENT MATERIAL & HARDWARE								
2	2	----	#20 DYWIDAG THREADBAR	30'-0"	A-1, A-2	501.0	1002	GALVANIZED
1	1	----	#20 DYWIDAG THREADBAR	25'-9"	A-1, A-2	430.0	430	GALVANIZED
1	1	302482-1	TRANSITION WELDMENT	5'-4 3/4"	A-2, F-1	304.0	304	CONCENTRIC
25	25	302482-2	W8X21	1'-3"	A-2, F-2	27.6	690	CONCENTRIC
5	5	302482-3	W8X21	3'-7"	A-2, F-3	12.3	79	CONCENTRIC
134	141	RUH4	RU-BOLT, 5/8"Ø X 3 1/8" C/C	----	F-2	----	----	(2) HHN-LKW / GALVANIZED
93	98	LHMB16#1-HDG	HOLLO-BOLT, 5/8"Ø (M16) LINDAPTER	----	----	----	----	HOT-DIPPED GALVANIZED
4	4	----	#20 DYWIDAG HEX NUT	----	----	----	----	GALVANIZED
24	24	#20SB	STEP BOLT WELDMENT	0'-7 1/4"	#20SB	2.5	60	
						TOTAL WEIGHT (lb)	2,565	PAGE 1 OF 1

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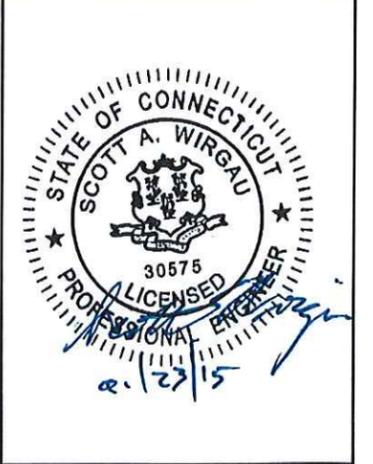
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	JLB	01/19/15
1			
2			
3			
4			

ATC SITE NUMBER:
302482

ATC SITE NAME:
NORTH HAVEN CT 1

CONNECTICUT

SITE ADDRESS:
15 DEWIGHT STREET
NORTH HAVEN, CT 06473



DRAWN BY:	JLB
APPROVED BY:	<i>SAW</i>
DATE DRAWN:	01/19/15
ATC JOB NO:	60261734
SHEET TITLE:	
BILL OF MATERIALS	

SHEET NUMBER: BOM	REV. # 0
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GENERAL

- ALL METHODS, MATERIALS AND WORKMANSHIP SHALL FOLLOW THE DICTATES OF GOOD CONSTRUCTION PRACTICE.
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
- ANY SUBSTITUTIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ANY MANUFACTURED DESIGN ELEMENTS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER TIA-1019-A-2011, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
- CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

STRUCTURAL STEEL

- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
- ALL U-BOLTS SHALL BE ASTM A36 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
- FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.

WELDING

- ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
- PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

BOLT TIGHTENING PROCEDURE

- STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2004 (SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS.)
- TIGHTEN FLANGE BOLTS BY AISC "TURN-OF-THE-NUT" METHOD, USING THE CHART BELOW:

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS

1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
5/8"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT

BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS

1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75 TO 7.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS 4.75 TO 9.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS 5.25 TO 10.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS 5.75 TO 11.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS 6.25 TO 12.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT

- SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

8.2.1 TURN-OF-NUT PRETENSIONING
 BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.

- ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

PAINT

- AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 70/7460-1K.

APPLICABLE CODES AND STANDARDS

- ANSI/TIA: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, 222-G EDITION.
- 2003 INTERNATIONAL BUILDING CODE WITH 2005 CONNECTICUT SUPPLEMENTS AND 2009 CONNECTICUT AMENDMENTS.
- ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 318-02.
- CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
- AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
- AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

SPECIAL INSPECTION

- A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH IBC 2003, SECTION 1704 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
 - STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY)
 - HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 EXTENSION FLANGE BOLTS TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD)
- THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH IBC 2003, SECTION 1704, UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTIONS.



AMERICAN TOWER®
ATC TOWER SERVICES, INC.
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
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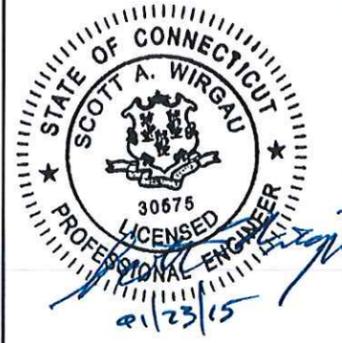
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	JLB	01/19/15

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 302482

ATC SITE NAME:
 NORTH HAVEN CT 1

CONNECTICUT

SITE ADDRESS:
 15 DEWIGHT STREET
 NORTH HAVEN, CT 06473



DRAWN BY:	JLB
APPROVED BY:	SAW
DATE DRAWN:	01/19/15
ATC JOB NO:	60261734

SHEET TITLE:
IBC GENERAL NOTES

SHEET NUMBER: IGN	REV. # 0
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AT&T MOBILITY
EL: 150.0' [PROPOSED]

EL: 150.0'
[TOP OF STRUCTURE]

SECTION 4

EL: 110.0'

SECTION 3

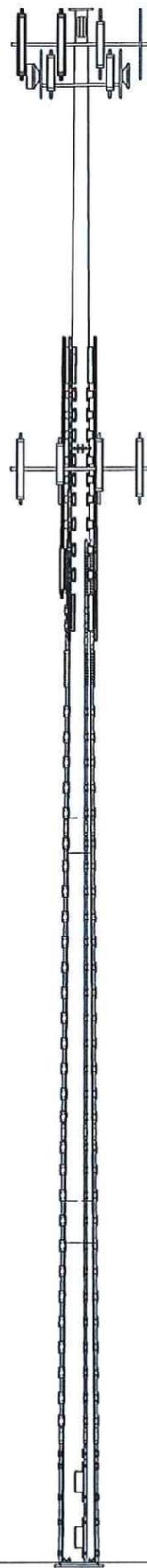
EL: 73.5'

SECTION 2

EL: 35.7'

SECTION 1

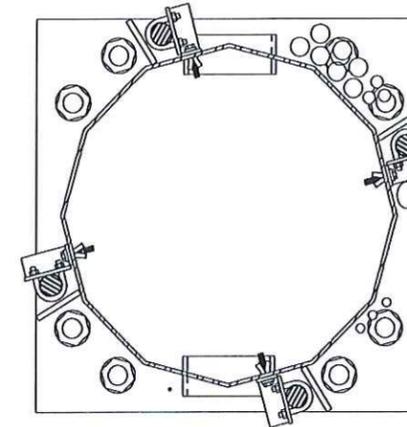
EL: 0.0'
[BOTTOM OF STRUCTURE]



TOWER ELEVATION VIEW

EXTEND (1) EXISTING #20 DYWIDAG
REINFORCEMENT BAR
FROM EL: 95.3' TO 121.0'.
SEE SHEETS A-2 TO A-2A
FOR INSTALLATION DETAILS.

INSTALL (2) #20 DYWIDAG
REINFORCEMENT BARS
FROM EL: 91.0' TO 121.0'.
SEE SHEETS A-2 TO A-2A
FOR INSTALLATION DETAILS.



EXISTING COAX
(TYP.)

COAX DISTRIBUTION
EXTERIOR ONLY

NOTES:

1. PROPOSED AT&T MOBILITY COAX TO BE INSTALLED INSIDE MONOPOLE.
2. CONTACT AMERICAN TOWER FIELD OPERATIONS WHEN EXISTING EQUIPMENT INTERFERES WITH INSTALLATION OF MODIFICATIONS. ONCE APPROVED, EXISTING EQUIPMENT MAY BE TEMPORARILY MOVED DURING INSTALLATION & REINSTALLED TO THE ORIGINAL HEIGHT & LOCATION BY CONTRACTOR POST COMPLETION OF MODIFICATIONS.



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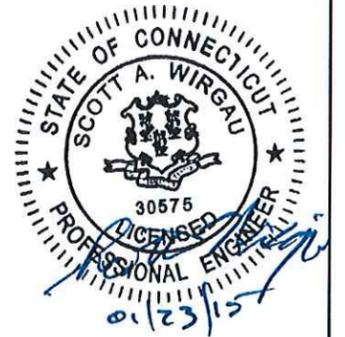
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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	JLB	01/19/15

ATC SITE NUMBER:
302482

ATC SITE NAME:
NORTH HAVEN CT 1
CONNECTICUT

SITE ADDRESS:
15 DEWIGHT STREET
NORTH HAVEN, CT 06473



DRAWN BY:	JLB
APPROVED BY:	SAW
DATE DRAWN:	01/19/15
ATC JOB NO:	60261734
SHEET TITLE:	

MODIFICATION PROFILE

SHEET NUMBER:	A-1	REV. #	0
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 SUITE 100
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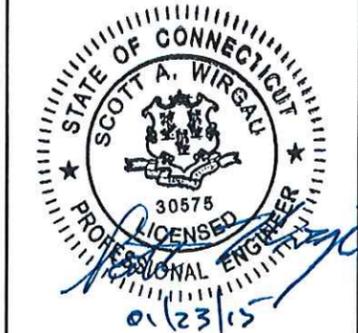
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	JLB	01/19/15

ATC SITE NUMBER:
302482

ATC SITE NAME:
NORTH HAVEN CT 1

CONNECTICUT

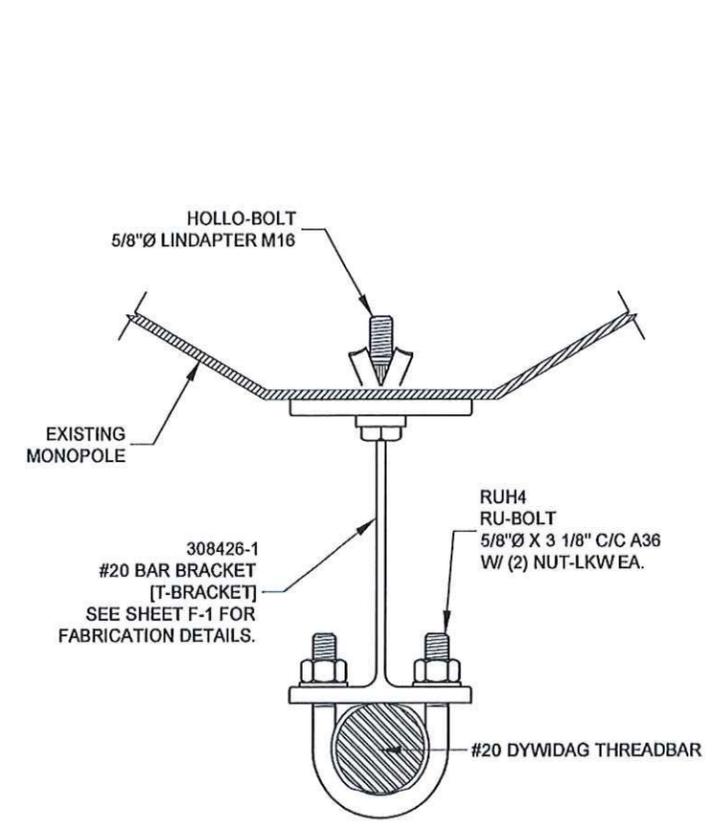
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 15 DEWIGHT STREET
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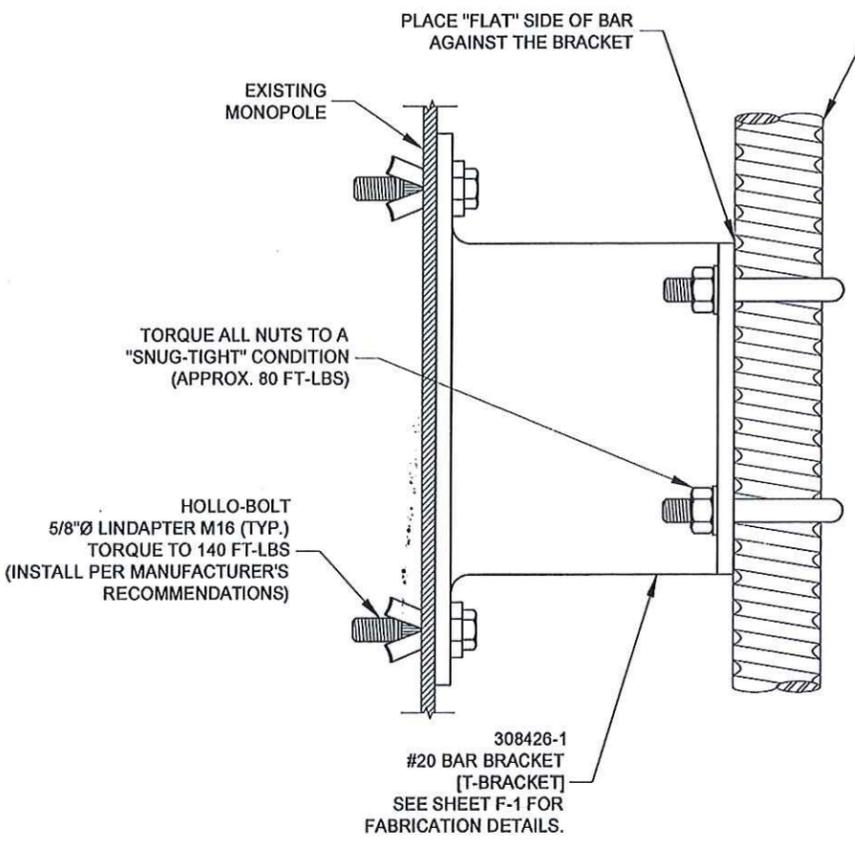
DRAWN BY: JLB
 APPROVED BY: *SAW*
 DATE DRAWN: 01/19/15
 ATC JOB NO: 60261734

SHEET TITLE:
**REINFORCEMENT
 INSTALLATION DETAILS
 (CONT'D)**

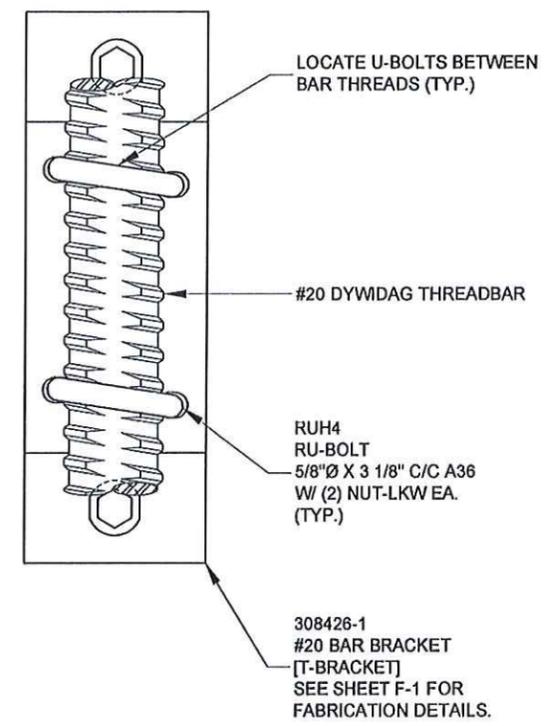
SHEET NUMBER: **A-2A** | REV. # **0**



PLAN VIEW
#20 BAR BRACKET ORIENTATION
[W5X19 T-BRACKET]



ELEVATION VIEW
#20 BAR BRACKET ORIENTATION
[W5X19 T-BRACKET]





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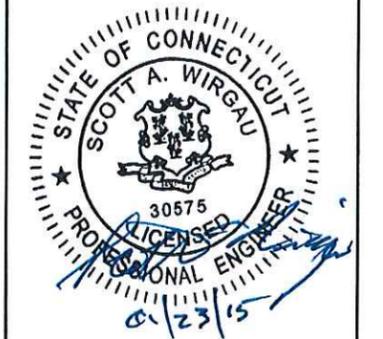
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	JLB	01/19/15

ATC SITE NUMBER:
302482

ATC SITE NAME:
NORTH HAVEN CT 1

CONNECTICUT

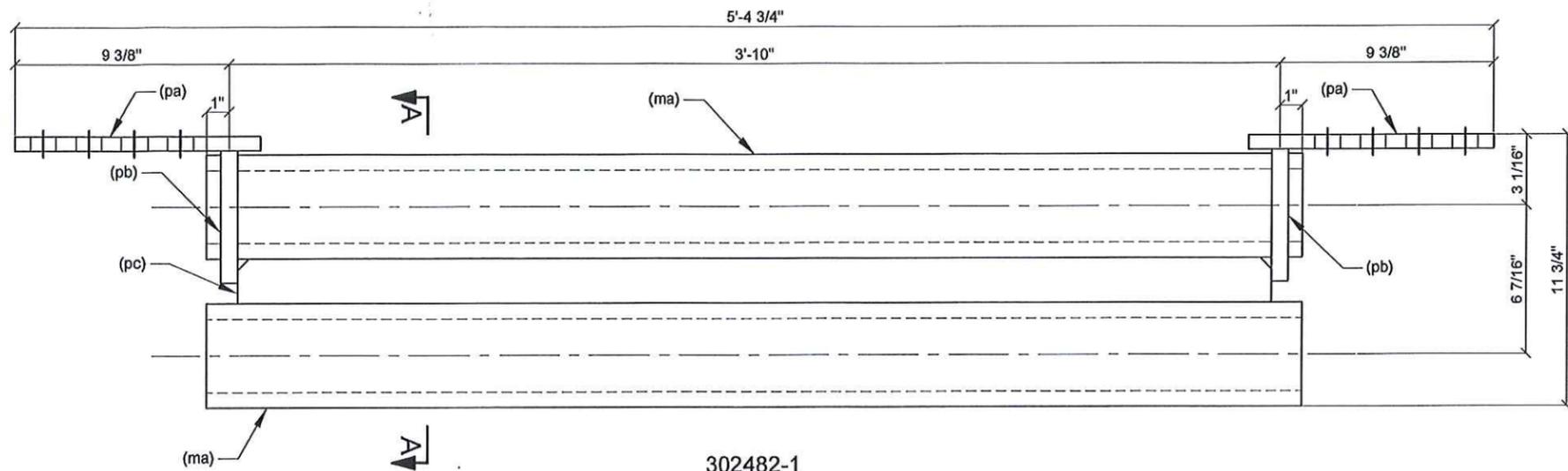
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 15 DEWIGHT STREET
 NORTH HAVEN, CT 06473



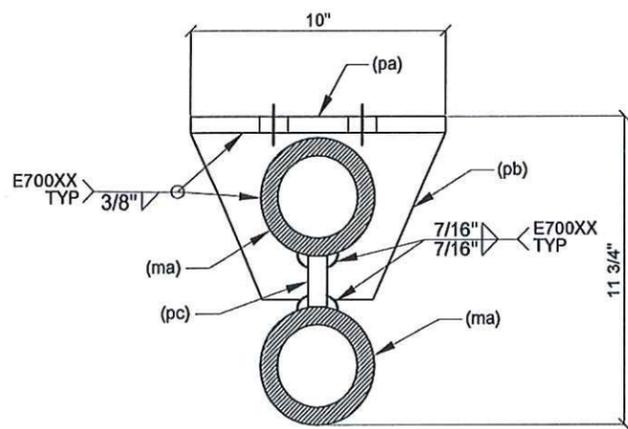
DRAWN BY: JLB
 APPROVED BY: SAW
 DATE DRAWN: 01/19/15
 ATC JOB NO: 60261734
 SHEET TITLE:

TRANSITION WELDMENT
 FABRICATION DETAILS

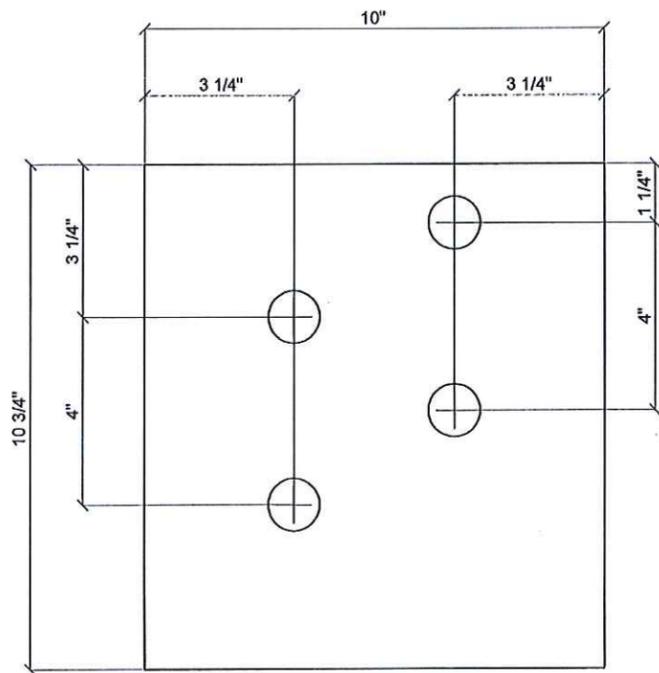
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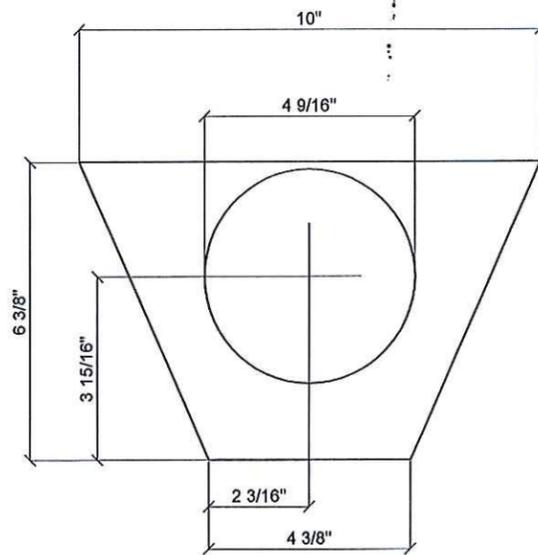
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TRANSITION WELDMENT



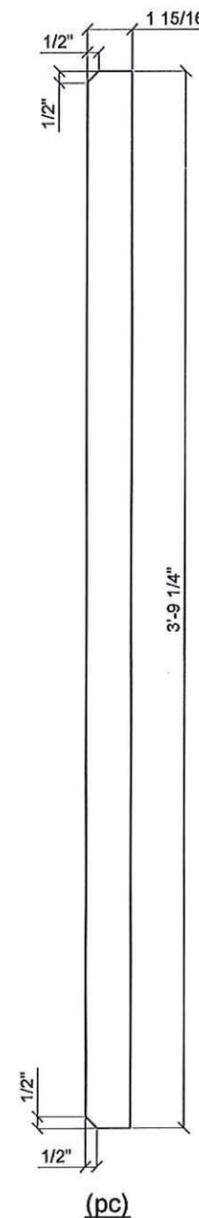
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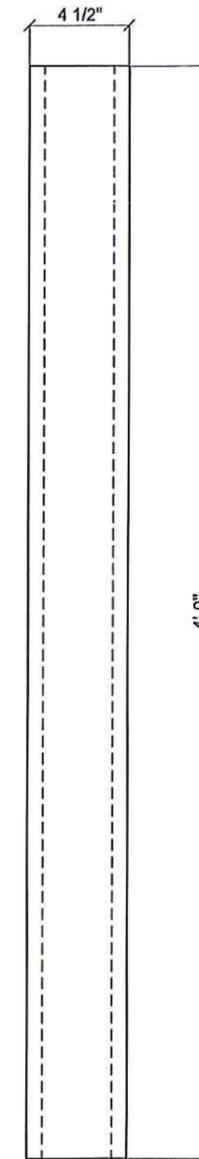
(pa)



(pb)



(pc)



(ma)

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PART NO.	QTY	DESCRIPTION	LENGTH	NOTES	BLK WT
(ma)	2	PIPE 4.5" OD X 0.674"	4'-0"	A53 GR. B	220.3#
(pc)	1	PL 3/4" X 1 15/16"	3'-9 1/4"		18.6#
(pb)	2	PL 3/4" X 6 3/8"	0'-10"	SHAPE	12.4#
(pa)	2	PL 5/8" X 10 3/4"	0'-10"		38.2#
302482-1	1	TRANSITION WELDMENT	5'-4 3/4"		289.5#
MATERIAL: A572 GR. 50 U.N.O. FINISH: GALVANIZED					HOLES: 1 1/8"Ø U.N.O. GALV WT: 304.0#

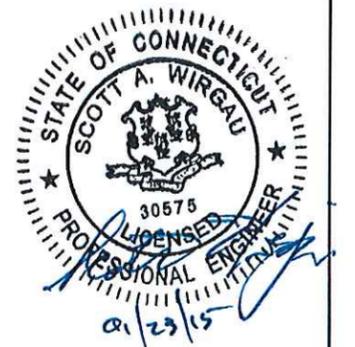


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REV.	DESCRIPTION	BY	DATE
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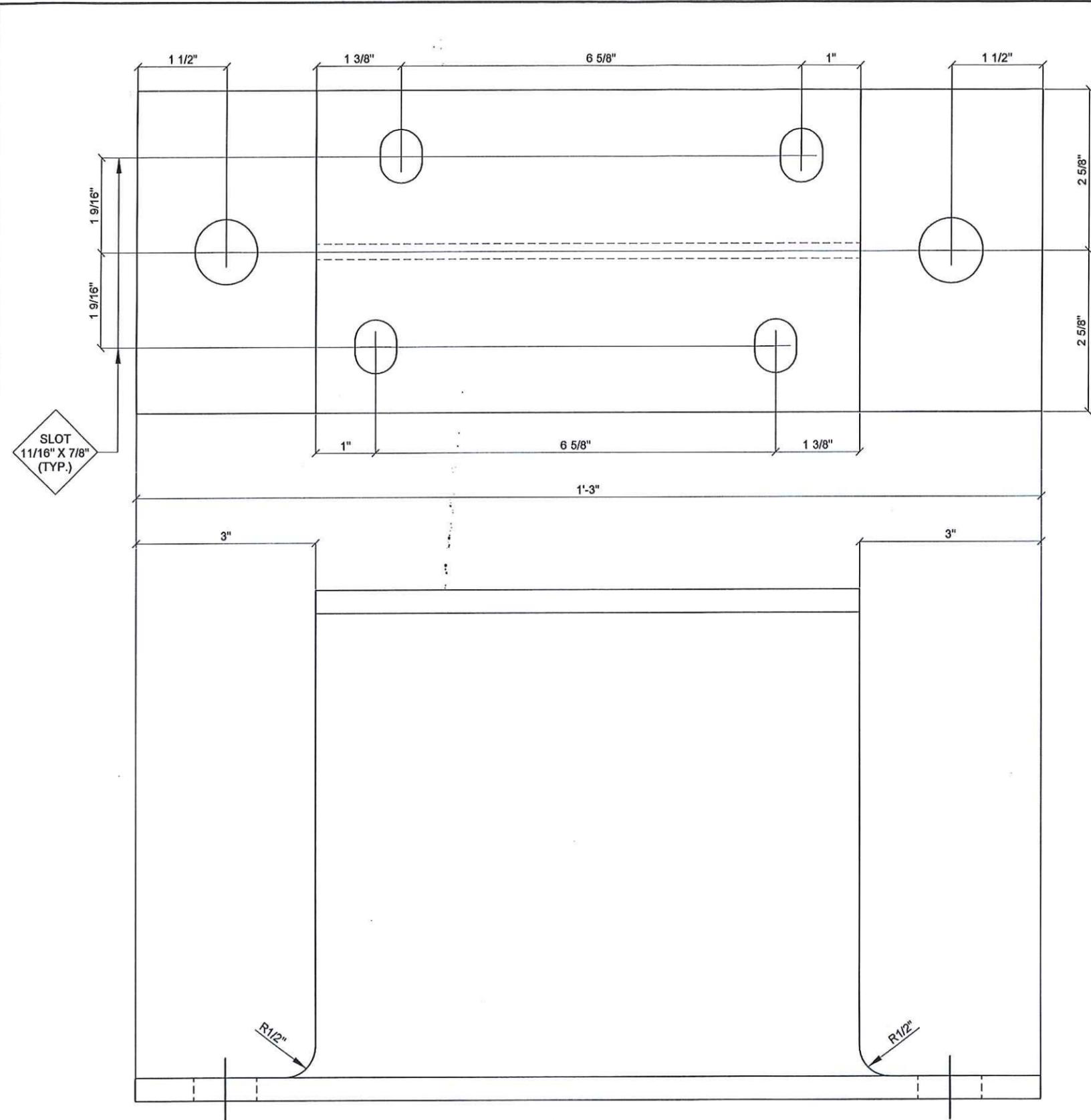
ATC SITE NUMBER:
 302482
 ATC SITE NAME:
 NORTH HAVEN CT 1
 CONNECTICUT
 SITE ADDRESS:
 15 DEWIGHT STREET
 NORTH HAVEN, CT 06473



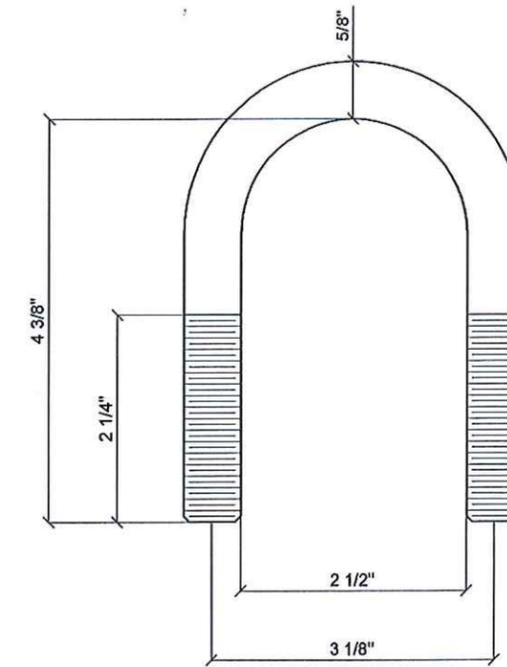
DRAWN BY:	JLB
APPROVED BY:	<i>SAW</i>
DATE DRAWN:	01/19/15
ATC JOB NO:	60261734
SHEET TITLE:	

#20 BAR BRACKET
 [W8X21 T-BRACKET]

SHEET NUMBER:	REV.#
F-2	0



302482-2
 #20 BAR BRACKET
 [T-BRACKET]



RUH4
 RU-BOLT 5/8"Ø X 3 1/8" C/C

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PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
302482-2	W8X21	1'-3"		26.3#	27.6#
MATERIAL: A36		FINISH: GALVANIZED		HOLES: 1 1/16"Ø UNO	



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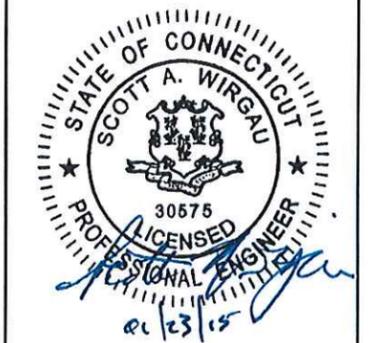
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	JLB	01/19/15

ATC SITE NUMBER:
302482

ATC SITE NAME:
NORTH HAVEN CT 1

CONNECTICUT

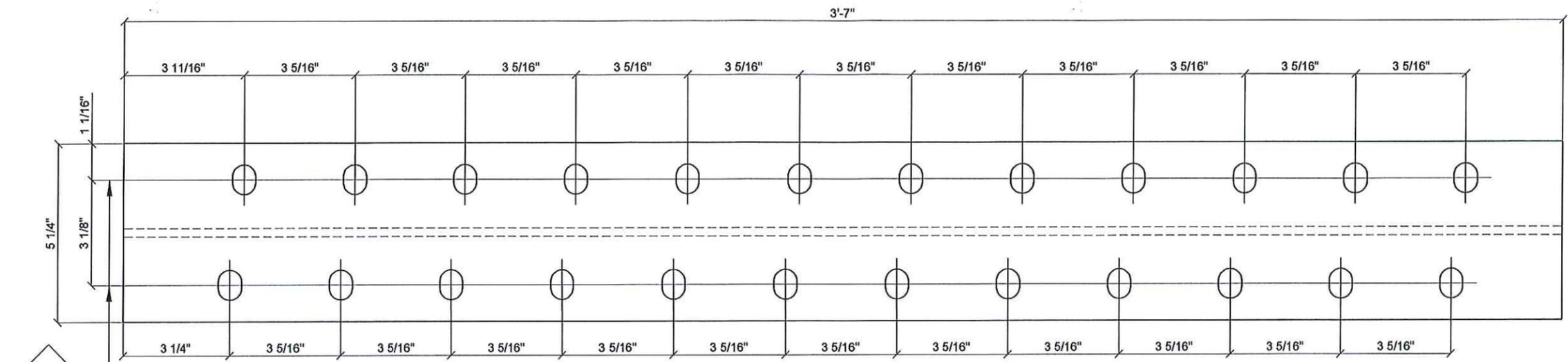
SITE ADDRESS:
 15 DEWIGHT STREET
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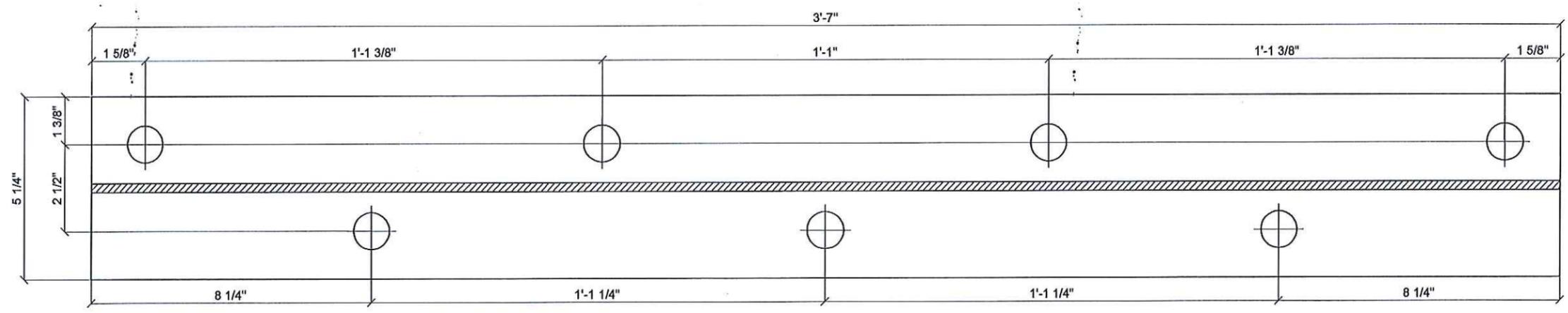
DRAWN BY:	JLB
APPROVED BY:	SAW
DATE DRAWN:	01/19/15
ATC JOB NO:	60261734
SHEET TITLE:	

TERMINATION BRACKET
 FABRICATION DETAILS

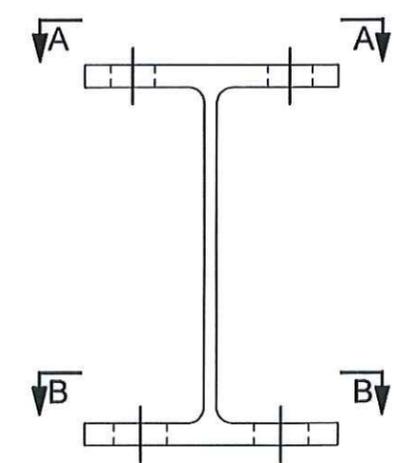
SHEET NUMBER:	F-3	REV. #	0
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SECTION "A-A"
 OUTER FLANGE VIEW



SECTION "B-B"
 INNER FLANGE VIEW



302482-3
 (NTS)

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PART NO.	DESCRIPTION	LENGTH	NOTES	BLK WT	GALV WT
302482-3	W8X21	3'-7"		75.3#	79.0#
	MATERIAL: A36				
	FINISH: GALVANIZED				
			HOLES: 1 1/16" DIA UNDR		



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REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	JLB	01/19/15

ATC SITE NUMBER:
302482

ATC SITE NAME:
NORTH HAVEN CT 1

CONNECTICUT

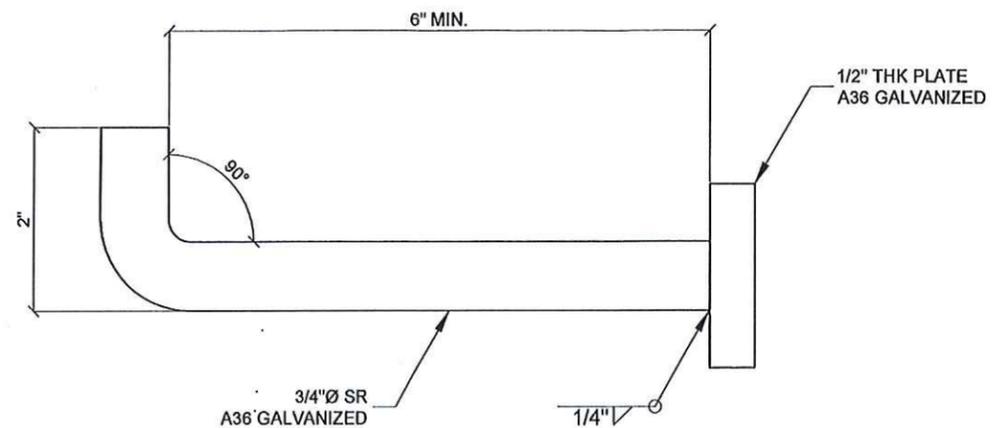
SITE ADDRESS:
 15 DEWIGHT STREET
 NORTH HAVEN, CT 06473



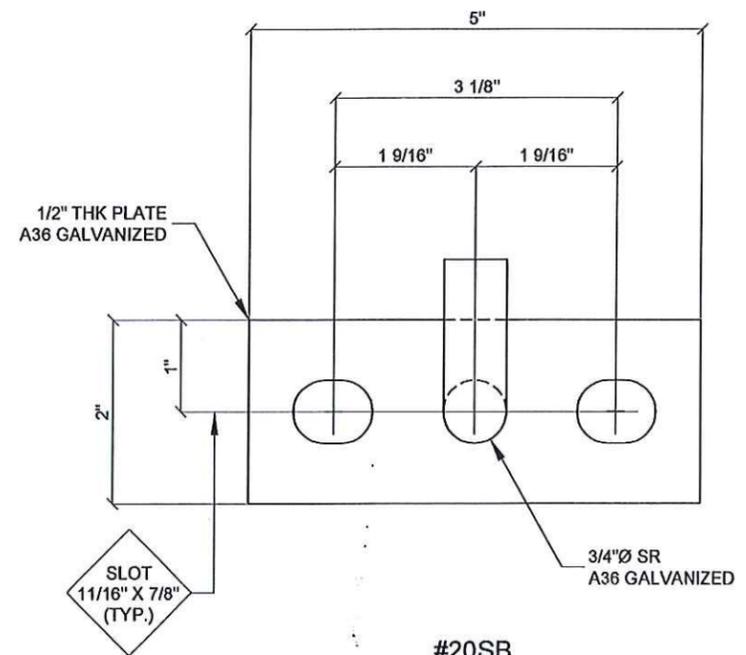
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APPROVED BY:	SAW
DATE DRAWN:	01/19/15
ATC JOB NO:	60261734
SHEET TITLE:	

#20 STEP BOLT BRACKET
FABRICATION AND
INSTALLATION DETAILS

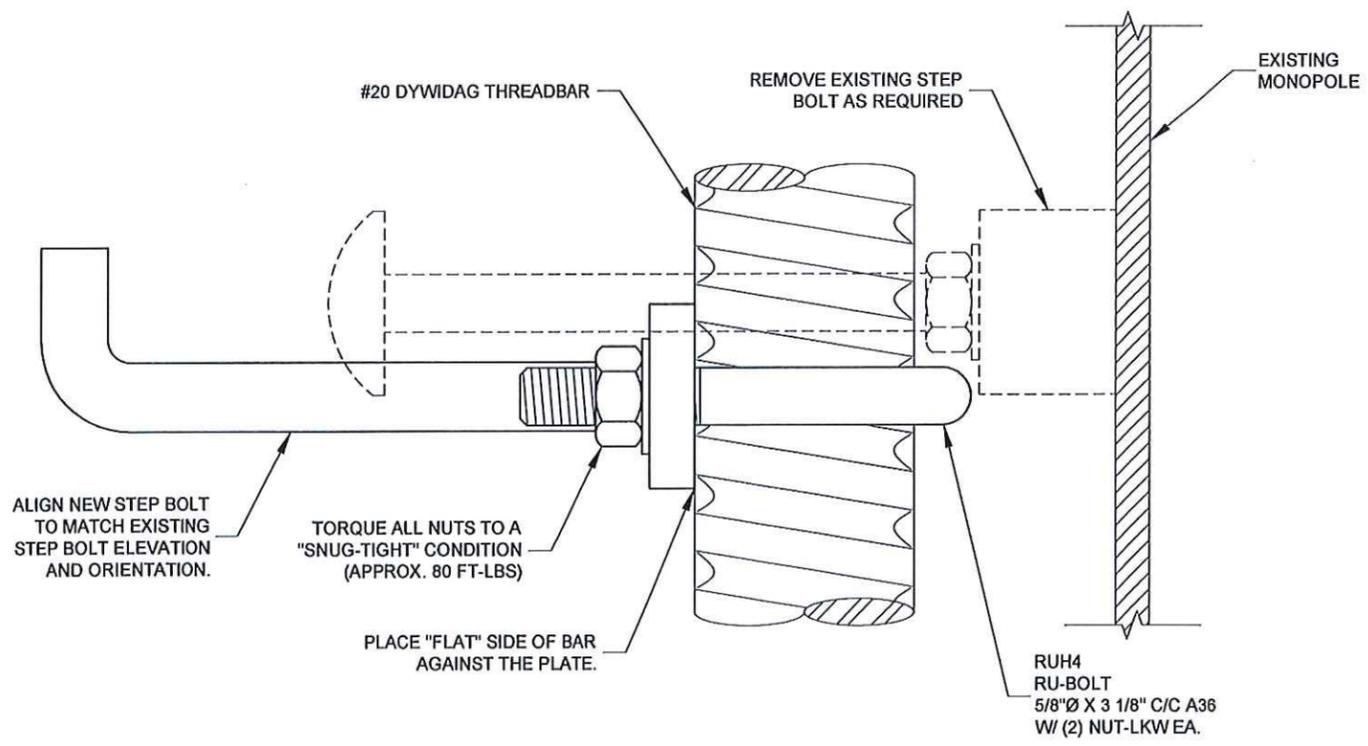
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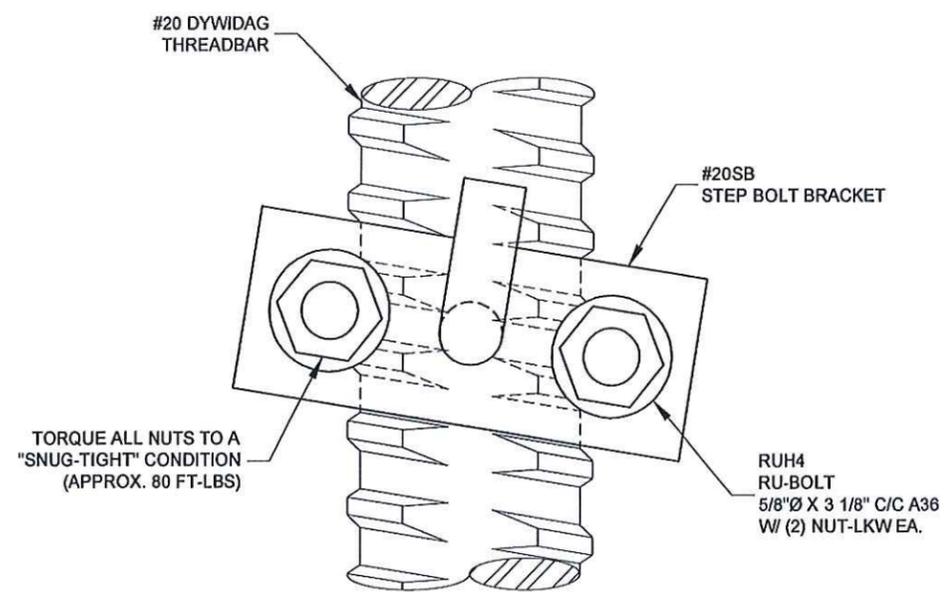
#20SB
SIDE VIEW



#20SB
FRONT VIEW



#20SB INSTALLATION DETAILS
SIDE VIEW



#20SB INSTALLATION DETAILS
FRONT VIEW