

June 05, 2014

David Martin and
Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Work Complete
2577 Main St,
Glastonbury, CT 06033
Sprint Site #: NV2.5_CT43XC822

Dear Mr. Martin and Members of the Siting Council:

On behalf of Sprint Spectrum, SBA Communications is hereby notifying the Connecticut Siting Council that work has been completed to the aforementioned telecommunications facility.

Pursuant to the Council's letter of acknowledgement dated August 02, 2013, please find the enclosed Post Modification Inspection Report confirming that the installation meets with the recommendations made in the structural analysis report.

Thank you,



Peter Nute
SBA Communications Corporation
33 Boston Post Road West Suite 320
Marlborough, MA 01752
508-251-0720 x 3804 + T
508-251-1755 + F
pnute@sbsite.com

November 1, 2013

Tim Rosa
Regional Site Manager
SBA Network Services
2490 Bruen Lane
Easton, PA 18040

Subject: Modification Inspection Report

SBA Designation: SBA Site Number: CT46126-A
SBA Site Name: Glastonbury-Main St.

Inspection Firm Designation: FDH Inc. Project Number: 1304001700

Site Data: 2577 Main Street, Glastonbury, CT 06033
Latitude: 41.7144° Longitude: -72.6130°
130' Self Support

FDH Engineering, Inc. is pleased to submit this **“Modification Inspection Report”** (MI Report) to SBA Network Services for the modification/reinforcement to the subject structure. This Modification Inspection (MI) was performed in accordance with Contract Documents, and FDH Inspection Standards. The purpose of this MI is to confirm that the modification installation configuration and workmanship are in accordance with the contract document(s) listed in Table 1. The MI is not a review of the adequacy or effectiveness of the modification solution.

Table 1 – General Information

	Company	Contact
MI Inspector	FDH Engineering Inc.	Josh Walton 919-755-1012
Independent	EOR	Turnkey
Modification Design EOR	FDH Engineering Inc.	919-755-1012
General Contractor	Prescott Tower Services, LTD	Eli Pitts 802-353-0082
Sub to the General Contractor	NA	NA
Field CWI for the General Contractor	NA	NA
Field NDE for the General Contractor	NA	NA

Table 2 – Design Documents

Document(s)	Remarks	Source
Tower Modification Drawings	FDH Engineering 1338401400 Dated 06-17-13	FDH Engineering, Inc.

Based on our inspection, FDH Engineering determines this project:

X_PASSING MI

The configuration, materials and/or workmanship of the modifications are installed in accordance with the Contract Documents and no deficiencies were found.

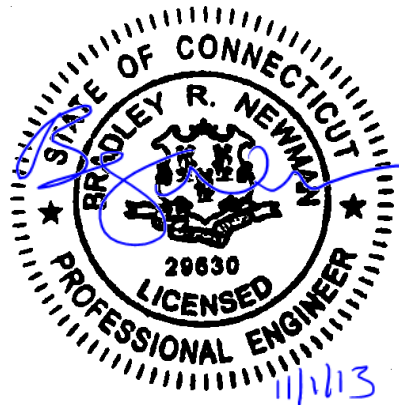
All observations were performed after the construction was complete and that FDH Engineering, Inc. was not present during the construction phase.

We at FDH Engineering, Inc. appreciate the opportunity of providing our continuing professional services to you and SBA Network Services. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted,



Bradley R. Newman, P.E.
Connecticut License #29630



Project Closeout Information - Table of Contents

PRE-CONSTRUCTION

	Reference Document
• MI Checklist Drawing	5
• EOR Approved Shop Drawings	NA
• Fabrication Inspection	NA
• Fabricator Certified Welding Inspection (CWI)	NA
• Material Testing Report (MTR)	6 - 8
• Fabricator NDE Inspection	NA
• NDE Report of Monopole Base Plate	NA
• Packing Slips	Waived















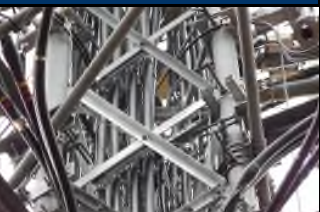
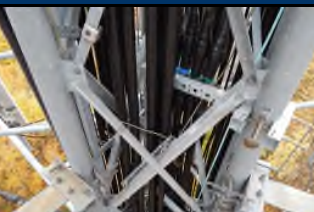




CONSTRUCTION

• Construction Inspections	Waived
• Foundation Inspections	NA
• Concrete Compression Strength and Slump Tests	NA
• Post Installed Anchor Rod Verification	NA
• Base Plate Grout Verification	NA
• Contractor's Certified Weld Inspection	NA
• Earthwork: Lift and Density	NA
• Galvanization Verification	Verified on site
• Guy Wire Tension Report	NA
• GC As-Built Documents	Waived

POST-CONSTRUCTION

• MI Inspector Redline/Record Drawings	9 - 13
• Engineer Approval	NA
• Post Installed Anchor Rod Pull-out Testing	NA
• On-Site Inspection Photographs	See Table 3

Table 3 – On-Site Inspection Photographs

PH#01 – Site Signage	PH#02 – Installation of Modification: Replacement Diagonals	PH#03 – Installation of Modification: Replacement Diagonals	PH#04 – Installation of Modification: Replacement Diagonals
			
PH#05 – Installation of Modification: Replacement Diagonals	PH#06 – Installation of Modification: Replacement Diagonals	PH#07 – Installation of Modification: Replacement Diagonals	PH#08 – Installation of Modification: Replacement Diagonals
			
PH#09 – Installation of Modification: Replacement Diagonals	PH#10 – Installation of Modification: Replacement Diagonals	PH#11 – Installation of Modification: Replacement Diagonals	PH#12 – Installation of Modification: Replacement Diagonals
			
PH#13 – Installation of Modification: Replacement Diagonals	PH#14 – Installation of Modification: Replacement Diagonals	PH#15 – Installation of Modification: Replacement Diagonals	PH#16 – Installation of Modification: Replacement Diagonals
			
PH#17 – Tower Modification: Removal of Sub-horizontals	PH#18 – Tower Modification: Removal of Sub-horizontals	PH#19 – Tower Modification: Removal of Sub-horizontals	PH#20 – Tower Modification: Removal of Sub-horizontals
			

PCI CHECKLIST

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED	REPORT ITEM
PRE-CONSTRUCTION	
X	PCI CHECKLIST DRAWING
N/A	EOR APPROVED SHOP DRAWINGS
N/A	FABRICATOR INSPECTION
N/A	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
N/A	FABRICATOR NDE INSPECTION
N/A	NDE REPORT OF MONOPOLE BASE PLATE (AS REQUIRED)
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH AND SLUMP TESTS
N/A	POST INSTALLED ANCHOR ROD VERIFICATION
N/A	BASE PLATE GROUT VERIFICATION
N/A	CONTRACTOR'S CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
X	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
POST-CONSTRUCTION	
X	PCI INSPECTOR REDLINE OR RECORD DRAWING(S)
N/A	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT NEEDED FOR THE PCI REPORT
N/A DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE PCI REPORT

POST CONSTRUCTION INSPECTION NOTES:

GENERAL

1. THE POST CONSTRUCTION INSPECTION (PCI) IS A VISUAL INSPECTION OF TOWER MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).
2. THE PCI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF. NOR DOES THE PCI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.
3. ALL PCI'S SHALL BE CONDUCTED BY A PCI INSPECTOR THAT IS APPROVED TO PERFORM ELEVATED WORK FOR FDH ENGINEERING, INC.
4. TO ENSURE THAT THE REQUIREMENTS OF THE PCI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE PCI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR FDH POINT OF CONTACT (POC).
5. REFER TO CCR-01 : CONTRACTOR CLOSEOUT REQUIREMENTS FOR FURTHER DETAILS AND REQUIREMENTS.

PCI INSPECTOR

1. THE PCI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE PCI TO, AT A MINIMUM:
 - REVIEW THE REQUIREMENTS OF THE PCI CHECKLIST
 - WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
2. THE PCI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE PCI REPORT TO FDH.

CORRECTION OF FAILING PCI'S

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE PCI ('FAILED PCI'), THE GC SHALL WORK WITH FDH TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:
 - CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT PCI.
 - OR, WITH FDH'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION.

REQUIRED PHOTOS

1. BETWEEN THE GC AND THE PCI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE PCI REPORT:
 - PRE-CONSTRUCTION GENERAL SITE CONDITION
 - PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION AND TORQUE
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
 - POST CONSTRUCTION PHOTOGRAPHS
 - FINAL INFIELD CONDITION
2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

PREPARED BY:



6321 MERRIBEN DRIVE
RALEIGH, NC 27616
PHONE: 919-755-1012
FAX: 919-755-1031

ENGINEERING INNOVATION

PREPARED FOR:



5900 BROKEN SOUND PARKWAY, NW
BOCA RATON, FL 33487
(800) 487-SITE

STATE OF CONNECTICUT
Professional Engineer
No. 25842
LICENSED
PROFESSIONAL ENGINEER
06/17/13
CHRISTOPHER M. MURPHY, PE
CONNECTICUT LIC NO. 25842

DRAWN BY: AI
CHECKED BY: DZ
ENG APP'D: CMM
PROJECT NO: 1338401400

SUBMITTALS		
DATE	DESCRIPTION	REV
06/17/13	CONSTRUCTION	0

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. REPRODUCTION OR CAUSING TO BE REPRODUCED THE WHOLE OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF FDH ENGINEERING, INC. IS PROHIBITED.

SITE NAME:
GLASTONBURY-MAIN ST

SITE NUMBER:
CT46126-A-03

SITE ADDRESS:
2577 MAIN STREET
GLASTONBURY, CT 06033

SHEET TITLE
POST CONSTRUCTION
INSPECTION NOTES

SHEET NUMBER
N-1



Project: Glastonbury - Main St. / CT 40126-A-03
Sheet _____ of _____
By: Prescott
Checked By: Stephan

Date: 8/22/13
FDH Project #: _____
Drawing #: _____

2x2x 1/4" =

Angle = A 56 (36451)

OK
LC



Form Number: MTR-01

Site ID:	Glastonbury-Main St. CT46126-A-03 Sprint
Tower Type:	130' Self Support 2577 Main Street Glastonbury, CT 06033

Str. Analysis Date:	1304001700 4/15/13 6/17/13
Drawing Issue:	Construction 41.7144° -72.6130°

This statement certifies that all materials and hardware bearing the above listed descriptions were used in this project/order. The attached "mill test reports" (MTR) are specific to the site listed above only. The performing contractor must submit all MTRs in order to receive a passing Post Modification Inspection. Failure to provide these documents could result in nonpayment, PO deductions and/or additional scopes of work.

[illegible]

ALL MTRS LISTED ABOVE MUST BE INCLUDED WITH THIS STATEMENT AND HEAT NO. INITIALED. DO NOT INCLUDE NON-APPLICABLE MTRS.

Subcontractor Company Name

Authorized Signature

Printed Name _____

State Of: KT

County Of: Alameda

Date _____

Vice president
Title

Title

I, MARK GOODWIN, a Notary Public of Rutland County, VT, certify that ELF PITS personally appeared before me this day and acknowledged that he/she is the Vice Pres. (title) of Mascoff Power Industries (subcontractor), a corporation, and as VICE PRESIDENT (title), being authorized to do so, executed the foregoing Instrument on behalf of the corporation. Witness my hand and official stamp or seal, this 22nd day of August, 2013.

Notary Public Signature and Printed Name

My Commission Expires: 2/10/2015

(Notary Stamp or Seal)

SOLD 1743 RTE 104
TO: PO BOX 577
ONTARIO, NY 14519-0000

NUCOR
NUCOR STEEL AUBURN, INC.

CERTIFIED MILL TEST REPORT

Page: 3

FRED A NUDD CORP
CUSTOMER PICK-UP
TO: ONTARIO, NY 14519-0000

Ship from:

Nucor Steel - Auburn
25 Quarry Road
AUBURN, NY 13021
315-253-4561

B.L. Number: 391961
Load Number: 139495

Material Safety Data Sheets are available at www.nucorbar.com or by contacting your inside sales representative.

HEAT NUM. *		DESCRIPTION	PHYSICAL TESTS				CHEMICAL TESTS														
PO# =>			YIELD P.S.I.	TENSILE P.S.I.	ELONG % IN 8"	BEND	WT%	DEF	C	N	Mn	Cr	P	Mo	S	V	Si	Cb	Cu	Sn	C.E.
AU1110100101	012225	Nucor Steel - Auburn Inc	51,600	72,800	31.9%																
AU11101001	2-1/2x2-1/2x1/4 Angle		356MPa	502MPa																	
	20' A36/A52950/CSA44W/50W		50,100	73,300	31.6%																
	A36/A529gr50/CSA44W/50W		345MPa	505MPa																	
	ASTM A709/A709M-10 GR 36 [250]																				
	ASME SA36-2007 EDITION-2008 ADDE																				
	NDA																				
	ASTM A36/A36M-08, A709/A709M-08a																				
	GR36, ASME SA36-07 Ed 09 Ad																				
PO# =>	012225	Nucor Steel - Auburn Inc	52,800	77,300	26.1%																
AU1110139801			364MPa	533MPa																	
	20' A36/A52950/CSA44W/50W		52,800	77,500	25.8%																
	A36/A529gr50/CSA44W/50W		364MPa	534MPa																	
	ASTM A709/A709M-10 GR 36 [250]																				
	ASME SA36-2007 EDITION-2008 ADDE																				
	NDA																				
	ASTM A36/A36M-08, A709/A709M-08a																				
	GR36, ASME SA36-07 Ed 09 Ad																				
PO# =>	012225	Nucor Steel - Auburn Inc	97,400	104,100	16.1%	OK															
AU1110197801			672MPa	718MPa																	
AU11101978	25/#8 Rebar 40'																				
	A615M Gr 420 (Gr60)																				
	ASTM A615/A615M-08b GR 60[420]																				
	AASHTO M31-07																				

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

1. Field repair was not performed on this material.

2. Heat and Manufactured in the United States.

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements

1. Weld repair was not performed on this material.

2. Material was not tested in the United States.

3. Mercury, Radium, or Alpha source materials in any form have not been used in the production of this material.

QUALITY
ASSURANCE:

[Signature]

THIS REPORT WAS BASED ON A SPECIFIC ANTENNA AND COAX CONFIGURATION PROVIDED BY THE TOWER OWNER. ANY CHANGE TO THIS INFORMATION MUST BE REVIEWED BY FDH ENGINEERING, INC.

ALL DIMENSIONS, MEASUREMENTS, QUANTITIES, PART NUMBERS AND
COAX/ANTENNA PLACEMENTS TO BE FIELD VERIFIED BY CONTRACTOR
PRIOR TO MATERIAL ORDERS AND CONSTRUCTION

BRUCH PATK
ERIC BADGER
10-28-13



☒ EOR has reviewed the Issues noted and passed the as-built condition(s).

☐ GC has revisited the site and corrected the punchlist items shown. Documentation showing these corrections has been received by the EOR.

EOR approved on 10/28/13

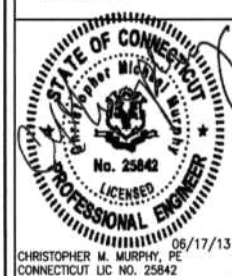
PREPARED BY:



PREPARED FOR:



5900 BROKEN SOUND PARKWAY, NW
BOCA RATON, FL 33487
(800) 487-SITE



DRAWN BY:	A
CHECKED BY:	D
ENG APPVD:	CM
PROJECT NO:	133840140

SUBMITTALS

[illegible]

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. REPRODUCTION OR CAUSING TO BE REPRODUCED THE WHOLE OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF FDH ENGINEERING, INC. IS PROHIBITED.

SITE NAME:
GLASTONBURY-MAIN ST

SITE NUMBER:
CT46126-A-03

SITE ADDRESS:
2577 MAIN STREET
GLASTONBURY, CT 06033

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

PROJECT DESCRIPTION:
**MODIFICATION DRAWINGS
FOR A 130' SELF-SUPPORT TOWER**



SITE NAME:
GLASTONBURY-MAIN ST

SITE NUMBER:
CT46126-A-03

SITE ADDRESS:
2577 MAIN STREET
GLASTONBURY, CT 06033

COORDINATES:
LATITUDE: 41.7144°
LONGITUDE: -72.6130°

SHEET INDEX

[illegible]

PCI CHECKLIST

CONSTRUCTION/INSTALLATION
INSPECTIONS AND TESTING
REQUIRED

REPORT ITEM

PRE-CONSTRUCTION

X	PCI CHECKLIST DRAWING
N/A	EOR APPROVED SHOP DRAWINGS
N/A	FABRICATION INSPECTION
N/A	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
N/A	FABRICATOR NDE INSPECTION
N/A	NDE REPORT OF MONOPOLE BASE PLATE (AS REQUIRED)
X	PACKING SLIPS

ADDITIONAL TESTING AND INSPECTIONS:

CONSTRUCTION

X	CONSTRUCTION INSPECTIONS
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH AND SLUMP TESTS
N/A	POST INSTALLED ANCHOR ROD VERIFICATION
N/A	BASE PLATE GROUT VERIFICATION
N/A	CONTRACTOR'S CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
X	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
X	GC AS-BUILT DOCUMENTS

ADDITIONAL TESTING AND INSPECTIONS:

POST-CONSTRUCTION

X	PCI INSPECTOR REDLINE OR RECORD DRAWING(S)
N/A	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
X	PHOTOGRAPHS

ADDITIONAL TESTING AND INSPECTIONS:

NOTE: X DENOTES A DOCUMENT NEEDED FOR THE PCI REPORT
N/A DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE PCI REPORT

POST CONSTRUCTION INSPECTION NOTES

GENERAL

1. THE POST CONSTRUCTION INSPECTION (PCI) IS A VISUAL INSPECTION OF THE MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER RECORDS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER (EOR).
2. THE PCI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE PCI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.
3. ALL PCIS SHALL BE CONDUCTED BY A PCI INSPECTOR THAT IS APPROVED TO PERFORM ELEVATED WORK FOR FDH ENGINEERING, INC.
4. TO ENSURE THAT THE REQUIREMENTS OF THE PCI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE PCI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR FDH POINT OF CONTACT (POC).
5. REFER TO CCR-01 : CONTRACTOR CLOSEOUT REQUIREMENTS FOR FURTHER DETAILS AND REQUIREMENTS.

PCI INSPECTOR

1. THE PCI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE PCI TO, AT A MINIMUM:
 - REVIEW THE REQUIREMENTS OF THE PCI CHECKLIST
 - WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
2. THE PCI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE PCI REPORT TO FDH.

CORRECTION OF FAILING PCI'S

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE PCI ("FAILED PCI"), THE GC SHALL WORK WITH FDH TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:
 - CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT PCI.
 - OR, WITH FDH'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION.

REQUIRED PHOTOS

1. BETWEEN THE GC AND THE PCI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE PCI REPORT:
 - PRE-CONSTRUCTION GENERAL SITE CONDITION
 - PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION AND TORQUE
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
 - POST CONSTRUCTION PHOTOGRAPHS
 - FINAL INFIELD CONDITION
2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



SECONDARY INSPECTION

- ☒ EOR has reviewed the issues noted and passed the as-built condition(s).
- ☐ GC has revisited the site and corrected the punchlist items shown. Documentation showing these corrections has been received by the EOR.

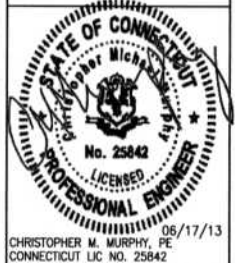
PREPARED BY:



PREPARED FOR:



5800 BROKEN SOUND PARKWAY, NW
BOCA RATON, FL 33487
(800) 487-5172



DRAWN BY: AI
CHECKED BY: DZ
ENG APP'D: CMM
PROJECT NO: 1338401400

SUBMITTALS

DATE	DESCRIPTION	REV
06/17/13	CONSTRUCTION	0

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. REPRODUCTION OR CAUSING TO BE REPRODUCED THE WHOLE OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF FDH ENGINEERING, INC. IS PROHIBITED.

SITE NAME:

GLASTONBURY-MAIN ST

SITE NUMBER:

CT46126-A-03

SITE ADDRESS:

2577 MAIN STREET
GLASTONBURY, CT 06033

SHEET TITLE

POST CONSTRUCTION
INSPECTION NOTES

SHEET NUMBER

N-1

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL PERMITS NECESSARY TO COMPLETE THE PROJECT AND ABIDE BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO FDH ENGINEERING FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
3. INCORRECTLY FABRICATED, DAMAGED, OTHERWISE MISFITTING, OR NON-CONFORMING MATERIALS AND CONDITIONS SHALL BE REPORTED TO FDH ENGINEERING PRIOR TO ANY REMEDIAL OR CORRECTIVE ACTION. ALL ACTIONS SHALL REQUIRE FDH ENGINEERING APPROVAL.
4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AFTER THE COMPLETION OF THE PROJECT.
5. CONTRACTOR SHALL PROMPTLY REMOVE ANY & ALL DEBRIS FROM SITE AND RESTORE AS BEST AS POSSIBLE TO PRECONSTRUCTION CONDITION.

CONTRACTOR QUALIFICATION NOTES:

1. ALL REPAIRS SHALL BE PERFORMED BY A TOWER CONTRACTOR WITH A MINIMUM 5 YEARS EXPERIENCE IN TOWER ERECTION AND RETROFIT AND WITH WORKING KNOWLEDGE OF THE TIA/EIA 222-F "STRUCTURAL STANDARD FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
2. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS. SHOULD THE CONTRACTOR REQUIRE DIRECT CONSULTATION, FDH ENGINEERING, INC. IS WILLING TO OFFER SERVICES BASED UPON AN AGREED FEE FOR THE WORK REQUIRED.
3. ALL SUBMITTAL INFORMATION MUST BE SENT TO FDH ENGINEERING, INC. 6521 MERIDIAN DRIVE, RALEIGH NC, 27616, TEL. (919) 755-1012, FAX. (919) 755-1031, E-MAIL INFO@FDH-INC.COM. ANY VARIATION OF THESE SPECIFICATIONS OR DRAWINGS WITHOUT CONSENT FROM FDH ENGINEERING, INC. WILL VOID ANY RESPONSIBILITY OR LIABILITY FOR DAMAGE (MATERIAL OR PHYSICAL) TOWARDS FDH ENGINEERING, INC.
4. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE TIA-1019-A STANDARD.

JOB SITE SAFETY & NOTES:

1. NEITHER THE PROFESSIONAL ACTIVITIES OF FDH ENGINEERING, INC. NOR THE PRESENCE OF FDH ENGINEERING, INC. OR EMPLOYEES AND SUB-CONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE GENERAL CONTRACTOR AND OR SUBCONTRACTORS AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE GENERAL CONTRACTOR AND OR SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY, AND WARRANTIES THAT THIS INTENT IS EVIDENT BY ACCEPTING THIS WORK.

STEEL:

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE AND ASTM SPECIFICATIONS.
*ALL STEEL ANGLE SHALL BE ASTM A36 (Fy=36KSI) UNLESS OTHERWISE SPECIFIED.
2. ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS SHALL BE MADE USING SPECIFIED WELDS WITH WELDING ELECTRODES E-70XX OR SPECIFIED HIGH STRENGTH BOLTS TO BE ASTM A325X, THREAD INCLUDED WITH SHEAR PLANE (UNLESS OTHERWISE NOTED).
3. ALL BOLTED CONNECTIONS TO BE INSTALLED TO A SNUG-TIGHTENED CONDITION IN ACCORDANCE WITH AISC 13 PART 16.2.
SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, SECTION 8.1, UNLESS OTHERWISE SPECIFIED. WHEN "X" TYPE BOLTS ARE USED, CONTRACTOR MAY BE REQUIRED TO STACK ADDITIONAL WASHERS TO OBTAIN PROPER SNUG TIGHT INSTALLATION. ALL NUTS SHALL BE HEAVY HEX UNLESS OTHERWISE NOTED.
4. ALL STEEL, AFTER FABRICATION, SHALL BE HOT DIPPED GALVANIZED PER ASTM A-123. ALL DAMAGED SURFACES, WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS OR PARTS (EXISTING OR NEW) SHALL BE PAINTED WITH MULTIPLE COATS OF ZRC COLD GALVANIZING COMPOUND ACHIEVING A MINIMUM OF 4 MILS DRY FILM PER ASTM A 780.
5. ALL SHOP AND FIELD WELDING SHALL BE DONE BY WELDERS QUALIFIED AS DESCRIBED IN THE "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" TO PERFORM THE TYPE OF WORK REQUIRED. CONTRACTOR IS REQUIRED TO PROVIDE FDH ENGINEERING, INC. WITH A PASSING CERTIFIED WELDING INSPECTION FOR ALL WELDS.
6. STRUCTURAL STEEL MAY NOT BE TORCH CUT FOR FABRICATION. ALL STEEL FABRICATION MUST FOLLOW AISC STANDARDS.

MISC. NOTES:

1. ALL MODIFICATIONS ARE ASSUMED TO BE MADE ON AN EMPTY TOWER. CONTRACTOR IS RESPONSIBLE TO MAKE PROVISIONS TO SUPPORT OR WORK AROUND EXISTING ANTENNAS AND TRANSMISSION LINES. MODIFICATIONS MUST BE CONTINUOUS THROUGH ALL AREAS SHOWN.
2. CONTRACTOR FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

FABRICATION NOTES:

1. ALL DIMENSIONS ARE PRELIMINARY UNTIL FIELD VERIFIED BY CONTRACTOR. ANY CHANGES MUST BE APPROVED BY ENGINEER OF RECORD IN WRITING PRIOR TO FABRICATION AND INSTALLATION.
2. NEW STEEL MEMBERS MUST HAVE SINGLE DRILLED HOLES. SLOTTED AND DOUBLE DRILLED HOLES ARE NOT ACCEPTABLE MEANS OF FABRICATION.

SUBSTITUTES AND/OR EQUALS:

1. IF CONTRACTOR WISHES TO FURNISH OR USE A SUBSTITUTE ITEM OF MATERIAL OR EQUIPMENT, CONTRACTOR SHALL FIRST MAKE WRITTEN APPLICATION TO ENGINEER OF RECORD FOR ACCEPTANCE THEREOF, CERTIFYING THAT THE PROPOSED SUBSTITUTE WILL PERFORM ADEQUATELY THE FUNCTIONS AND ACHIEVE THE RESULTS CALLED FOR BY THE GENERAL DESIGN, BE SIMILAR IN SUBSTANCE TO THAT SPECIFIED AND SUITED TO THE SAME USE AS THAT SPECIFIED. ALL VARIATIONS OF THE PROPOSED SUBSTITUTE FROM THAT SPECIFIED WILL BE IDENTIFIED IN THE APPLICATION AND AVAILABLE MAINTENANCE, REPAIR AND REPLACEMENT SERVICE WILL BE INDICATED. THE APPLICATION WILL ALSO CONTAIN AN ITEMIZED ESTIMATE OF ALL COSTS OR CREDITS THAT WILL RESULT DIRECTLY OR INDIRECTLY FROM ACCEPTANCE OF SUCH SUBSTITUTE INCLUDING COSTS OF REDESIGN AND CLAIMS OF OTHER CONTRACTORS AFFECTED BY THE RESULTING CHANGE, ALL OF WHICH WILL BE CONSIDERED BY ENGINEER OF RECORD IN EVALUATION OF THE PROPOSED SUBSTITUTE. ENGINEER OF RECORD MAY REQUIRE CONTRACTOR TO FURNISH ADDITIONAL DATA ABOUT THE PROPOSED SUBSTITUTE.

COLD GALVANIZATION/SURF

1. CONTRACTOR TO USE ZINC COMPOUNDS OR APPROVED
2. PREPARE RUSTED/CORRODED ACCORDING TO MANUFACTURER'S RECOMMENDATION.
3. CONTRACTOR TO APPLY (2) GALVANIZATION COMPOUND RECOMMENDATION. DRYING AND CURING TIMES MUST BE UTILIZED PER MANUFACTURER'S RECOMMENDATION.
4. APPLY ALL COATINGS BY BRUSH IN CALM WIND CONDITIONS. THE USE OF AEROSOL IS NOT PERMITTED.
5. IF THE TOWER IS PAINTED, BRUSH PAINT ALL TREATED AREAS TO MATCH TOWER AFTER COLD GALVANIZATION COMPOUND IS ALLOWED TO CURE.



SECONDARY INSPECTION

- ☒ EOR has reviewed the issues noted and passed the as-built condition(s).
- ☐ GC has revisited the site and corrected the punchlist items shown. Documentation showing these corrections has been received by the EOR.

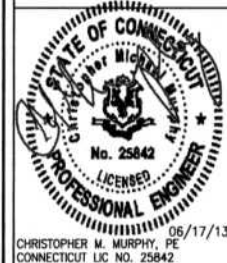
PREPARED BY:



PREPARED FOR:



5900 BROKEN SOUND PARKWAY, NW
BOCA RATON, FL 33487
(800) 487-5176



DRAWN BY: AI
CHECKED BY: DZ
ENG APPVD: CMH
PROJECT NO: 1338401400

SUBMITTALS		
DATE	DESCRIPTION	REV
06/17/13	CONSTRUCTION	0

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. REPRODUCTION OR CAUSING TO BE REPRODUCED THE WHOLE OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF FDH ENGINEERING, INC. IS PROHIBITED.

SITE NAME:
GLASTONBURY-MAIN ST

SITE NUMBER:
CT46126-A-03

SITE ADDRESS:
2577 MAIN STREET
GLASTONBURY, CT 06033

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
N-2

A vertical diagram of a tower structure. On the left, height markers are shown at 0.0', 20.0', 40.0', 60.0', 80.0', 100.0', 120.0', and 130.0'. The tower is divided into four numbered sections (1, 2, 3, 4) with checkmarks to the right. Section 1 is between 80.0' and 100.0'. Section 2 is between 60.0' and 80.0'. Section 3 is between 40.0' and 60.0'. Section 4 is between 20.0' and 40.0'. The tower has a lattice structure with 'X' marks at the section boundaries.

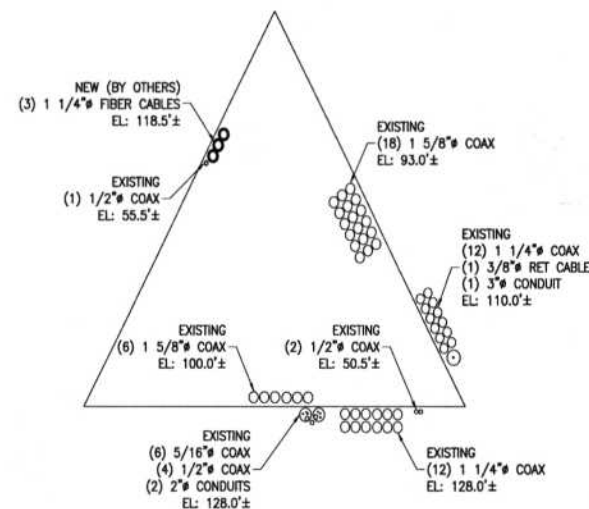
ON ✓

- APPURTENANCES MAY INTERFERE WITH PROPOSED MODIFICATIONS.
- ALL MODIFICATIONS TO BE INSTALLED CONTINUOUSLY THROUGH EXISTING EQUIPMENT. ALL EXISTING EQUIPMENT NOT TO BE DAMAGED OR TAKEN OFF AIR DURING INSTALLATION.
- ANTENNA GRAPHICS NOT SHOWN FOR CLARITY. SEE STRUCTURAL ANALYSIS REPORT FOR EXISTING ANTENNA LOADING.

- APPURTENANCES MAY INTERFERE WITH PROPOSED MODIFICATIONS.
- ALL MODIFICATIONS TO BE INSTALLED CONTINUOUSLY THROUGH EXISTING EQUIPMENT. ALL EXISTING EQUIPMENT NOT TO BE DAMAGED OR TAKEN OFF AIR DURING INSTALLATION.
- ANTENNA GRAPHICS NOT SHOWN FOR CLARITY. SEE STRUCTURAL ANALYSIS REPORT FOR EXISTING ANTENNA LOADING.

Byrce Patk

NOTES CORRECT LOCATIONS!



COAX LAYOUT
SCALE: NTS

× × SEE TIA FOR CURRENT COAX LAYOUT × ×

☒ EOR has reviewed the issues noted and passed the as-built condition(s).

☐ GC has revisited the site and corrected the punchlist items shown. Documentation showing these corrections has been received by the EOR.

FDH
6521 MERIDIAN DRIVE
RALEIGH, NC 27816
PHONE: 919-755-1012
FAX: 919-755-1031

ENGINEERING INNOVATION

SBA 

5900 BROKEN SOUND PARKWAY, NW
BOCA RATON, FL 33487
(800) 487-SITE

06/17/1

DRAWN BY:	AL
CHECKED BY:	DZ
ENG APPVD:	CM
PROJECT NO:	1338401400

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. REPRODUCTION OR CAUSING TO BE REPRODUCED THE WHOLE OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF FDH ENGINEERING, INC. IS PROHIBITED.

SITE NAME:
GLASTONBURY-MAIN ST

SITE NUMBER:
CT46126-A-03

SITE ADDRESS:
2577 MAIN STREET
GLASTONBURY, CT 06033

SHEET TITLE

MODIFICATION SCHEDULE

SHEET NUMBER

S-1

Byrne Pat



SECONDARY INSPECTION
☒ EOR has reviewed the issues noted and passed the as-built condition(s).
☐ GC has revisited the site and corrected the punchlist items shown. Documentation showing these corrections has been received by the EOR.

PREPARED BY:
FDH
 8021 MERIDEN DRIVE
 RALEIGH, NC 27615
 PHONE: 919-755-1012
 FAX: 919-755-1031
ENGINEERING INNOVATION

PREPARED FOR:
SBA
 5800 BROKEN SOUND PARKWAY, NW
 BOCA RATON, FL 33487
 (800) 487-SITE

STATE OF CONNECTICUT
 PROFESSIONAL ENGINEER
 No. 25842
 LICENSED
 05/17/13
 CHRISTOPHER M. MURPHY, P.E.
 CONNECTICUT LIC NO. 25842

DRAWN BY: AI
 CHECKED BY: DZ
 ENG APPVD: CMM
 PROJECT NO: 1338401400

SUBMITTALS		
DATE	DESCRIPTION	REV
06/17/13	CONSTRUCTION	D

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. REPRODUCTION OR CAUSING TO BE REPRODUCED THE WHOLE OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF FDH ENGINEERING, INC. IS PROHIBITED.

SITE NAME:
GLASTONBURY-MAIN ST

SITE NUMBER:
CT46126-A-03

SITE ADDRESS:
 2577 MAIN STREET
 GLASTONBURY, CT 06033

SHEET TITLE
DIAGONAL REPLACEMENT DETAILS

SHEET NUMBER
S-2

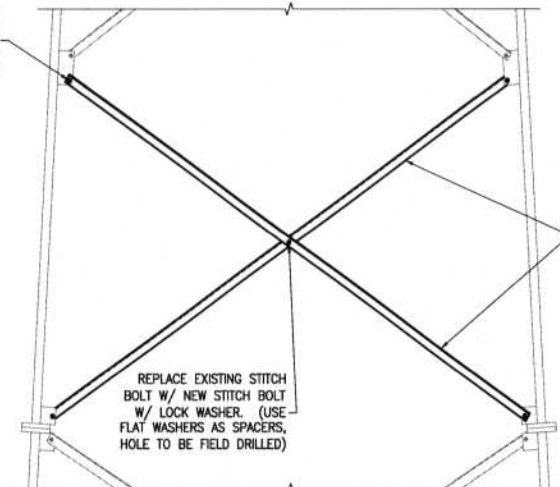
MK-1 REPLACEMENT DIAGONAL SCHEDULE

ELEVATION	EXISTING MEMBER	PROPOSED MEMBER	ESTIMATED LENGTH, A*	BOLT SIZE	HOLE SIZE	STITCH BOLT SIZE	HOLE SIZE	GAGE LINE**	EDGE DISTANCE***	BOLT GRADE
92.0'± TO 96.0'±	(6) L1 1/2X1 1/2X3/16	(6) L2X2X1/4	7'-4"±	(12) 1/2" X 1 1/2"	9/16"	(3) 1/2" X 1 3/4"	9/16"	1 1/8"	1"	A325X
75.0'± TO 80.0'±	(6) L1 1/2X1 1/2X3/16	(6) L2X2X1/4	6'-2"±	(12) 1/2" X 1 1/2"	9/16"	(3) 1/2" X 1 3/4"	9/16"	1 1/8"	1"	A325X
40.0'± TO 45.0'±	(6) L1 1/2X1 1/2X3/16	(6) L2X2X1/4	4'-11"±	(12) 1/2" X 1 1/2"	9/16"	(3) 1/2" X 1 3/4"	9/16"	1 1/8"	1"	A325X

3 BAYS REQUIRE DIAGONAL REPLACEMENT

*CONTRACTOR TO FIELD VERIFY LENGTH PRIOR TO MATERIAL ORDERS.
 **DISTANCE FROM HEEL OF ANGLE TO CENTER OF BOLT HOLE.
 ***EDGE DISTANCE FROM CENTER OF BOLT HOLE TO EDGE OF CONNECTED PART.

REPLACE EXISTING BOLT W/
 NEW BOLT AND LOCK WASHER.
 SEE SCHEDULE FOR DETAILS.
 (TYP.)



TOP OF INSTALLATION (TYP.)
 ELEV: SEE SCHEDULE

MK-1
 NEW REPLACEMENT DIAGONAL.
 EXISTING DIAGONAL TO BE REPLACED
 W/ LARGER DIAGONAL MEMBER.
 SEE SCHEDULE FOR DETAILS.

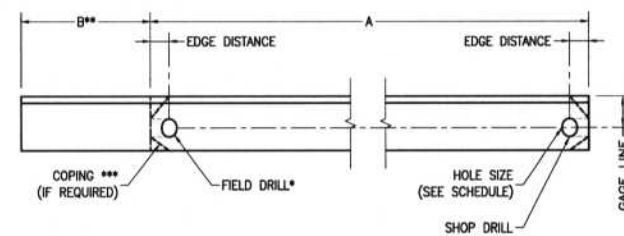
BTM. OF INSTALLATION (TYP.)
 ELEV: SEE SCHEDULE

DIAGONAL REPLACEMENT
 ELEVATION VIEW

1
 S-2
 ELEVATION
 NTS

NO COPING NEEDED &
 NO COPING VISIBLE.

EXISTING FEEDLINE LADDERS TO BE RE-INSTALLED USING EXISTING HARDWARE TO NEW DIAGONALS WHERE POSSIBLE & REPLACED IN ALL OTHER LOCATIONS AS NECESSARY. CONTRACTOR RESPONSIBLE FOR ALL PARTS ASSOCIATED WITH TEMPORARY & FINAL COAX & CLIMBING LADDER SUPPORT.



* ESTIMATED HOLE LOCATION. CONTRACTOR TO FIELD VERIFY LOCATION OF THIS HOLE PRIOR TO DRILLING HOLE TO ENSURE PROPER FIT. CONTRACTOR TO FIELD CUT EXCESS MATERIAL AFTER HOLE LOCATION IS VERIFIED.

** "B" WE SUGGEST THE PRELIMINARY CUT LENGTH IS 6" LONGER THAN OUR ESTIMATED LENGTH FOR MEMBERS 10" OR LESS, & 12" FOR MEMBERS GREATER THAN 10".

*** COPING MAY BE REQUIRED; COPING NOT TO EXCEED "TEAR-OUT" PLANE OF BOLT HOLE AS SHOWN.

DIAGONAL
 FRONT VIEW

MK-1
 S-2
 DETAIL
 NTS

NOTE: ALL INSTALLED & IN GOOD CONDITION