



ADDENDUM NO. 5

TO: Interested Parties

FROM: Jessica Spring, Project Manager
Division of Engineering

DATE: Tuesday, May 11, 2021

PROJECT: 33/35 WEST WASHINGTON STREET
COMMUNICATION TOWER EXTENSION
COUNTY CONTRACT NO.: MS-CT-083-18

Acknowledge receipt of this **Addendum No. 5** by signing in the space provided below and returning with your Bid.

Failure to sign and return with your Bid may subject the Bidder to disqualification. This **Addendum No. 5** forms a part of the Bid Documents, it supplements and modifies them as outlined herein.

This **Addendum No. 5** consists of **eleven (11) pages**, including this page.

I hereby acknowledge receipt of **Addendum No. 5**:

By: _____ Date _____
Signed Name

Typed Name

Title

For (Firm): _____

Phone Number: _____

ADDENDUM NO. 5
Page 1 of 11

ADDENDUM NO. 5

**33/35 WEST WASHINGTON STREET
COMMUNICATION TOWER EXTENSION**

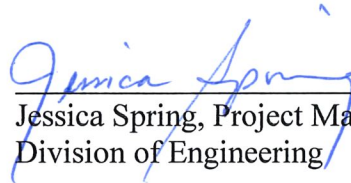
COUNTY CONTRACT NO. MS-CT-083-18

Date Issued: Tuesday, May 11, 2021

**Bids Due: REVISED: Friday, May 14, 2021
2:00 p.m., Local Time**

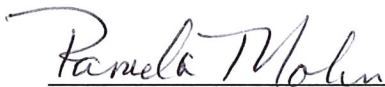
The following addendum material is hereby made a part of the Bid Documents.

Please note the following changes, information, and/or instructions in connection with the proposed work and submit proposals accordingly.



Jessica Spring, Project Manager
Division of Engineering

By Authority of:
Board of County Commissioners
Washington County, Maryland



for _____
Scott Hobbs, P.E., Director
Division of Engineering

ADDENDUM NO. 5

**33/35 WEST WASHINGTON STREET
COMMUNICATION TOWER EXTENSION**

COUNTY CONTRACT NO. MS-CT-083-18

TO: All prime Contractors and all others to whom specifications have been issued:

ITEM 5.01 **REVISED BID DUE DATE:**

The date for acceptance of bids is changed as follows:

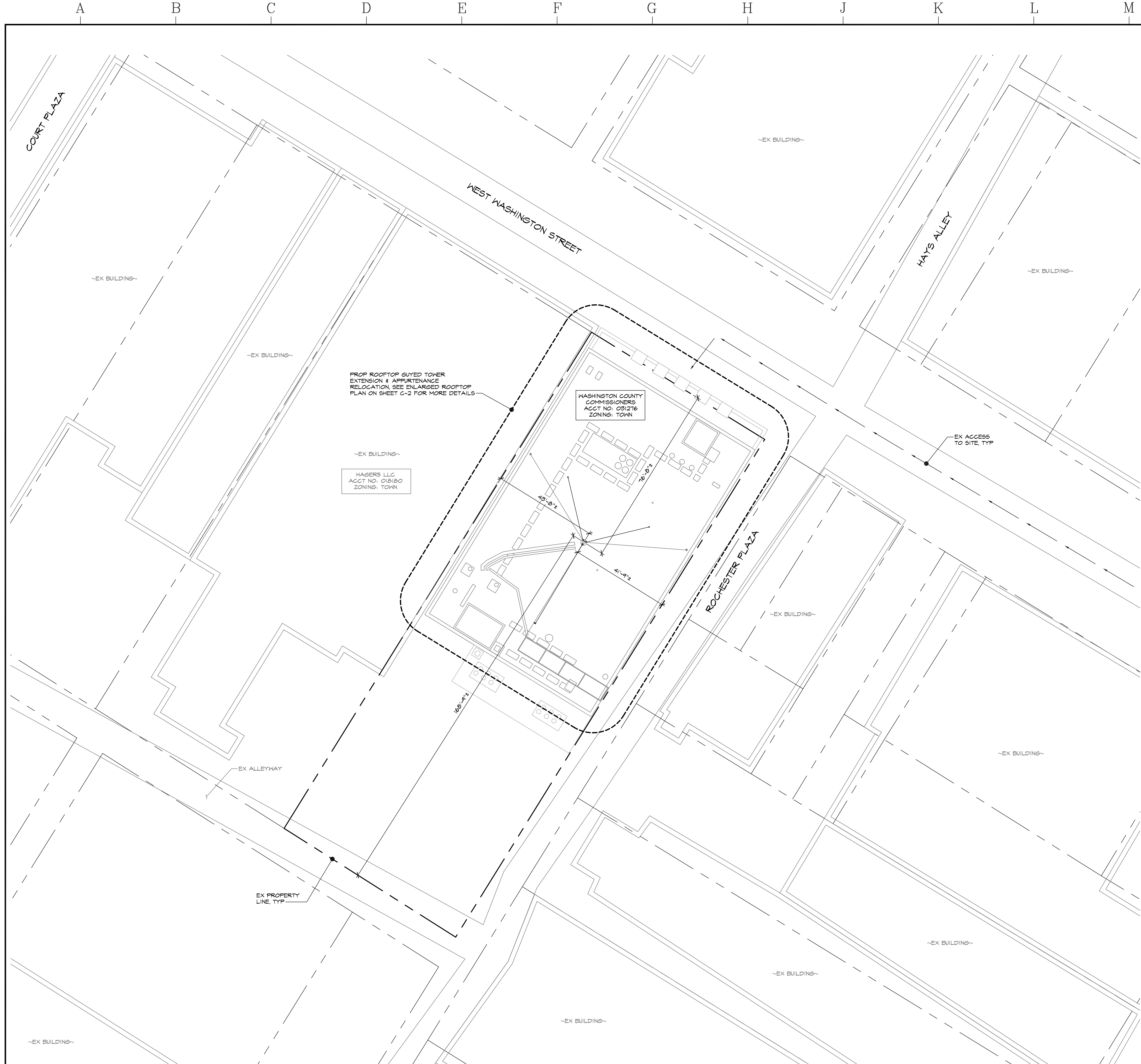
The Board of County Commissioners of Washington County, Maryland, will accept sealed bids for the 33/35 West Washington Street, Communication Tower Extension, Contract No. MS-CT-083-18 until Friday, May 14, 2021 at 2:00 p.m.

ITEM 5.02 **UPDATED DRAWING SET (8-PAGES):**

Attached please find the updated drawing set dated May 10, 2021 for the 33/35 West Washington Street Communication Tower Extension. The drawing set was updated to show plan modifications noted in Addendum No. 4, including changes to the proposed feedline layout and capping of existing cabling. All changes have revision clouds.

Attachments: Tower Modification Drawings, Feedline Revision, 5/10/2021 (8 pages)

END OF ADDENDUM NO. 5



COURT PLAZA

WEST WASHINGTON STREET

HAYS ALLEY

ROCHESTER PLAZA

PROP ROOFTOP GUYED TOWER
EXTENSION & APPURTENANCE
RELOCATION. SEE ENLARGED ROOFTOP
PLAN ON SHEET C-2 FOR MORE DETAILS.

WASHINGTON COUNTY
COMMISSIONERS
ACCT NO. 031276
ZONING: TOWN

HAGERS LLC
ACCT NO. 018180
ZONING: TOWN

EX ALLEYWAY

EX PROPERTY
LINE, TYP.

-EX BUILDING-

-EX BUILDING-

-EX BUILDING-

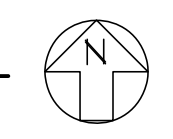
-EX BUILDING-

-EX BUILDING-

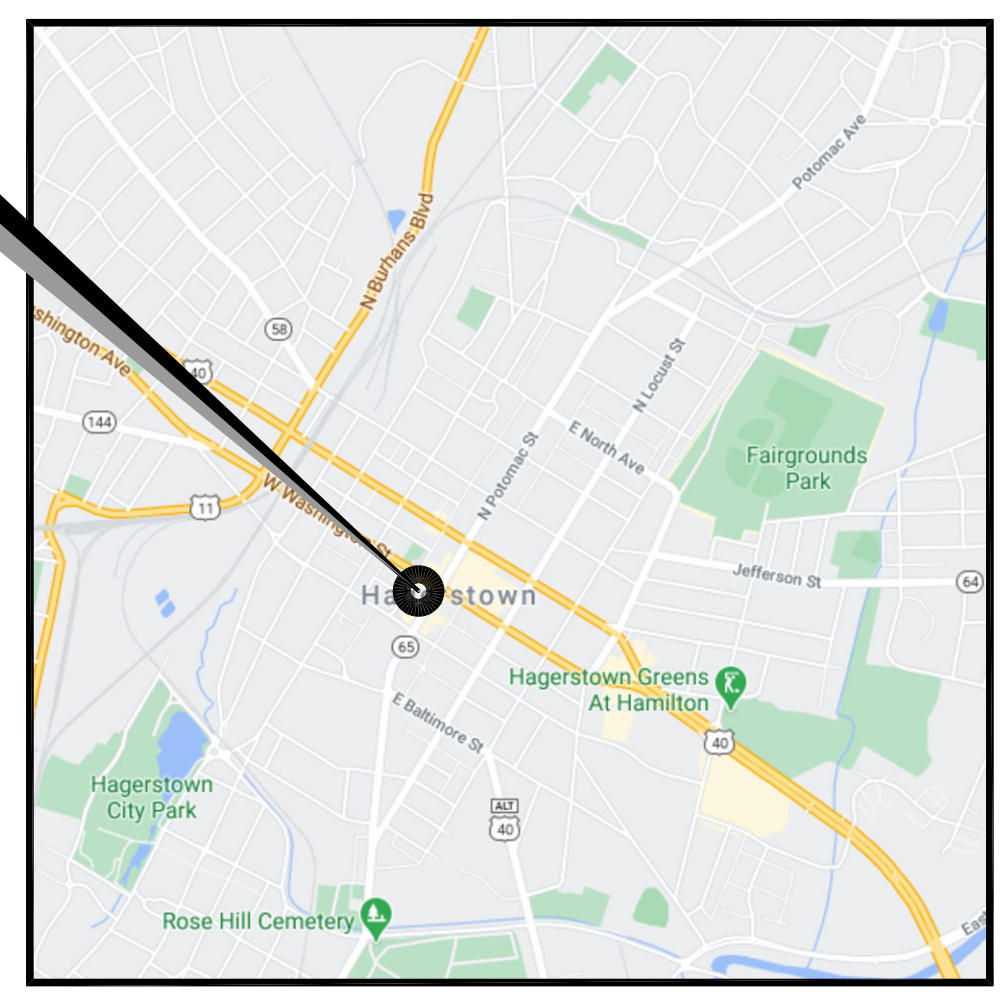
-EX BUILDING-

-EX BUILDING-

SITE PLAN
SCALE: 1" = 20'-0"



SITE



VICINITY MAP
SCALE: 1" = 2000'

SITE NOTES:

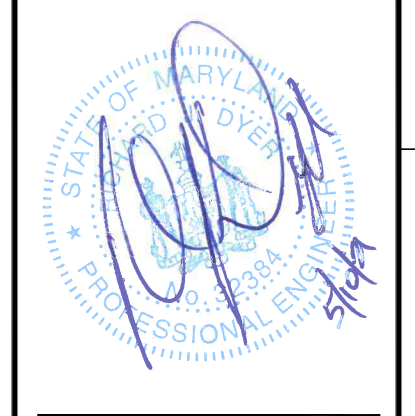
- PROPERTY OWNER: WASHINGTON COUNTY COMMISSIONERS
COUNTY ADMINISTRATION BUILDING
100 WEST WASHINGTON STREET
HAGERSTOWN, MD 21740-4727
- SITE DATA: MAP: 0306, GRID: 0000, PARCEL: 2251
NEIGHBORHOOD: 2000022, LOT: 41
PROPERTY LAND AREA: 19,880 SQ FT
DISTRICT: 03
ACCOUNT NUMBER: 031276
ADDRESS: 33 WEST WASHINGTON STREET
HAGERSTOWN, MD 21740-0000
EXISTING USE: EXEMPT COMMERCIAL / TELECOMMUNICATIONS
- ZONING: TOWN
- HORIZONTAL AND VERTICAL CONTROL SHOWN HEREON IS BASED ON SATELLITE IMAGERY PROGRAMS:
LATITUDE: N39° 38' 32.14"
LONGITUDE: W77° 43' 17.34"
GROUND ELEVATION: 543.0' AMSL (AVG.)
EX BASE OF TOWER: 46.0'± ASL
EX TOWER HEIGHT: 116.0'± ASL
PROP TOWER HEIGHT: 156.0'± ASL
HIGHEST APPURTENANCE ON TOWER: 173.4'± ASL
OVERALL HEIGHT / TOTAL ELEVATION: 116.4'± AMSL

- TOTAL DISTURBED AREA = 0 SF
- THE PROJECT CONSISTS OF INSTALLING A 40'-0" EXTENSION ONTO THE EXISTING GUYED TOWER AS WELL AS PROVIDING THREE (3) NEW GUY ANCHOR LOCATIONS AT THE EXISTING ROOF LEVEL TO SUPPORT PROPOSED GUY WIRES AT THE TOP OF THE TOWER EXTENSION. THREE (3) OMNI ANTENNAS AND ONE (1) DISH ANTENNA ALONG WITH ASSOCIATED MOUNTS, SHALL BE REMOVED. TWO (2) OMNI ANTENNAS AND ONE (1) PANEL ANTENNA SHALL REMAIN IN PLACE. FIVE (5) ANTENNAS AND ASSOCIATED MOUNTS WILL BE RELOCATED AT A HIGHER ELEVATION ON THE TOWER IN ITS FINAL CONDITION. IN ADDITION, THREE (3) NEW ANTENNAS AND ASSOCIATED MOUNTS WILL BE ADDED TO THE TOWER. ALL NEW AND EXISTING FEEDLINES WILL BE CARRIED / RELOCATED / ADDED TO THE EXISTING TOWER LEGS AND BAND MOUNTED ACCORDINGLY.
- THE STRUCTURE WILL NOT SUPPORT LIGHTS OR SIGNS UNLESS REQUIRED FOR AIRCRAFT WARNING OR OTHER SAFETY RECORDS.
- THE APPLICANT WILL PROVIDE A CERTIFICATION FROM A REGISTERED ENGINEER THAT THE STRUCTURE WILL MEET THE APPLICABLE DESIGN STANDARDS FOR WIND LOADS PER THE REQUIREMENTS OF THE TELECOMMUNICATIONS INDUSTRY ASSOCIATION.
- NO WATER OR SANITARY UTILITIES ARE REQUIRED FOR THE OPERATION OF THIS FACILITY.
- STORMWATER MANAGEMENT NOTE: NO STORMWATER MANAGEMENT IS REQUIRED FOR THIS SITE.
- BOUNDARY SHOWN PER JURISDICTION RECORDS.
- THIS PLAN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. PLAN IS SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD.
- ALL DETAILS SHOWN ARE "STANDARD" OR "TYPICAL" FOR REFERENCE ONLY.
- STRUCTURAL ANALYSIS/DESIGN WILL BE PERFORMED BY MORRIS & RITCHE ASSOCIATES, INC. PRIOR TO COMMENCEMENT OF ANY WORK.
- THE COMMUNICATION FACILITY SHALL BE UNMANNED, WITH INFREQUENT VISITS (FOUR OR FEWER PER YEAR) BY MAINTENANCE PERSONNEL, AND WITH ACCESS AND PARKING FOR NO MORE THAN ONE VEHICLE. THE PROPOSED FACILITY IS NOT FOR HUMAN HABITATION AND THEREFORE HANDICAP ACCESS IS NOT REQUIRED.

GENERAL NOTES:

- CONTRACTOR SHALL NOTIFY "MISS UTILITY" (811) 48 HOURS PRIOR TO DOING ANY EXCAVATION IN THIS AREA. CONTRACTOR SHALL CONTACT A SUBSURFACE UTILITY LOCATOR FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS BY TEST PIT AS NECESSARY. LOCATION OF UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND FOR PLANNING PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. DAMAGE TO UTILITIES OR PROPERTY OF OTHER BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRECONSTRUCTION CONDITIONS BY THE CONTRACTOR.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES, THE LATEST EDITION THEREOF.
- ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH APPROPRIATE UTILITY OWNERS.
- THESE PLANS ARE NOT FOR RECORDATION OR CONVEYANCE.
- EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY CONTRACTOR (WHICH ARE NOT TO BE REMOVED) SHALL BE REPAIRED TO PRECONSTRUCTION CONDITIONS BY THE CONTRACTOR.

MRA
MORRIS & RITCHE ASSOCIATES, INC.
Civil / Structural Engineers
1320-C East Joppa Road, Suite 505
Towson, Maryland 21286
410-821-1690
410-821-1748 Fax



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32584, EXPIRATION DATE: 11/01/2021.

Washington County
MARYLAND
WEST WASHINGTON STREET
33/35 WEST WASHINGTON STREET
HAGERSTOWN, MARYLAND 21740 (WASHINGTON CO.)

REVISIONS:

NO.	DESCRIPTION	DATE
BUILDING PERMIT		03/01/21
FEEDLINE REV		06/10/21

DESIGNED BY: JSN
PROJECT NO: 21018.001
DATE: 12/22/20
SCALE: AS NOTED

TITLE:
Site Plan

SHEET:
C-1



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 1544, EXPIRATION DATE: 12/31/2021.

Washington County
 MARYLAND
 WEST WASHINGTON STREET
 33/35 WEST WASHINGTON STREET
 HAGERSTOWN, MARYLAND 21740 (WASHINGTON CO.)

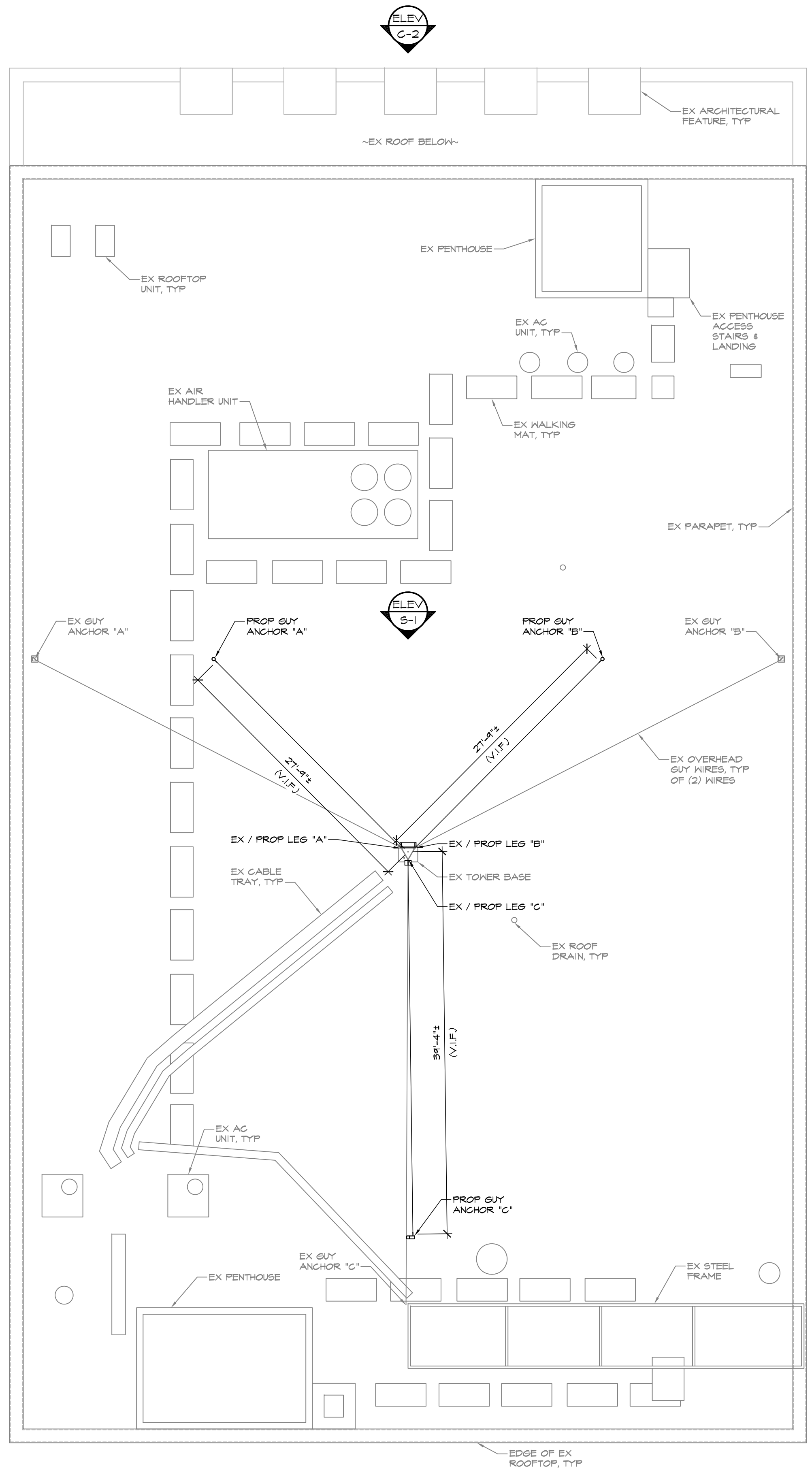
REVISIONS:

NO.	DESCRIPTION	DATE
BUILDING PERMIT	03/01/21	
FEEDLINE REV	06/10/21	

DESIGNED BY: JSN
 PROJECT NO: 21018.001
 DATE: 12/22/20
 SCALE: AS NOTED

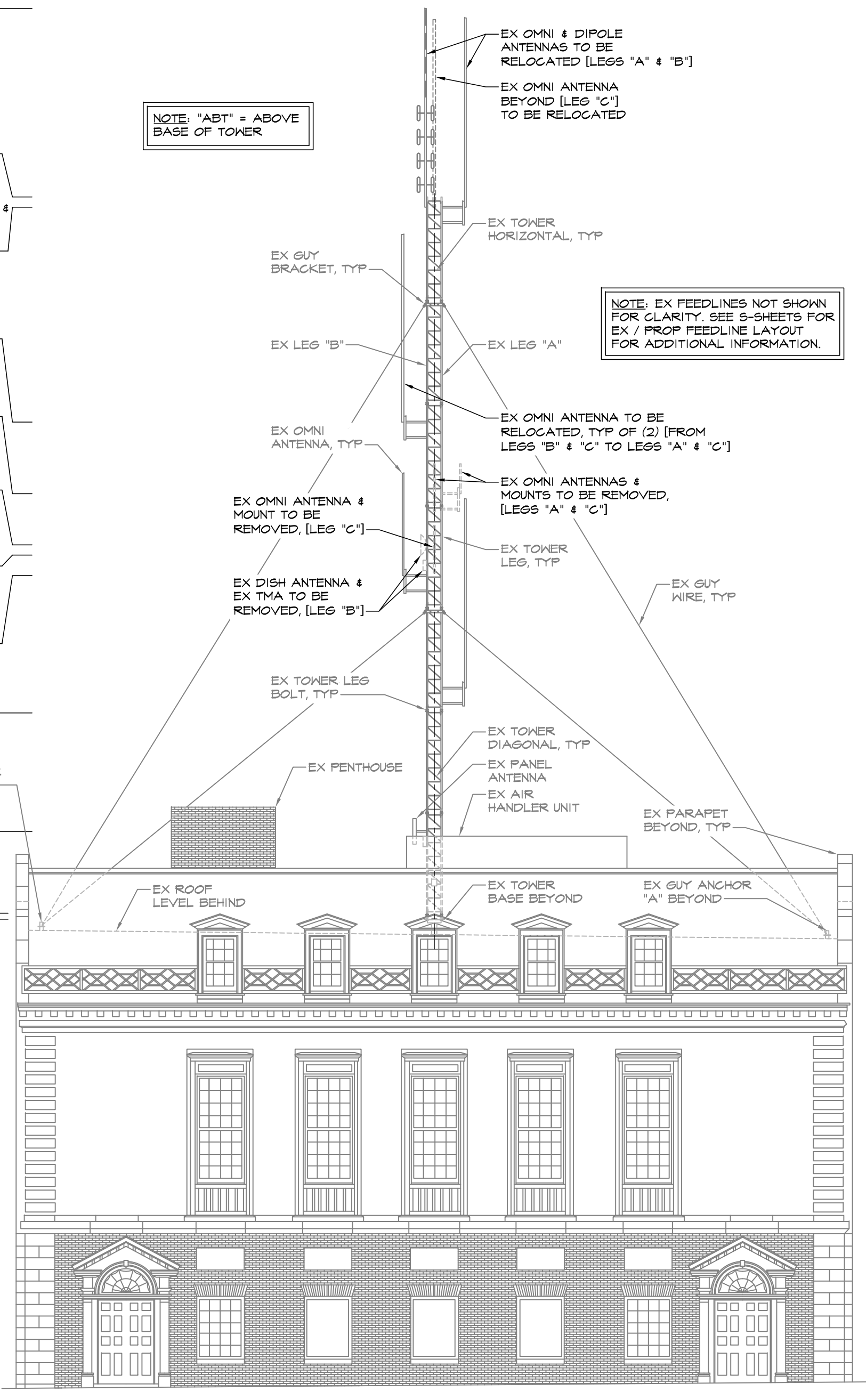
TITLE:
Roof Plan & Building / Tower Elevations

SHEET:



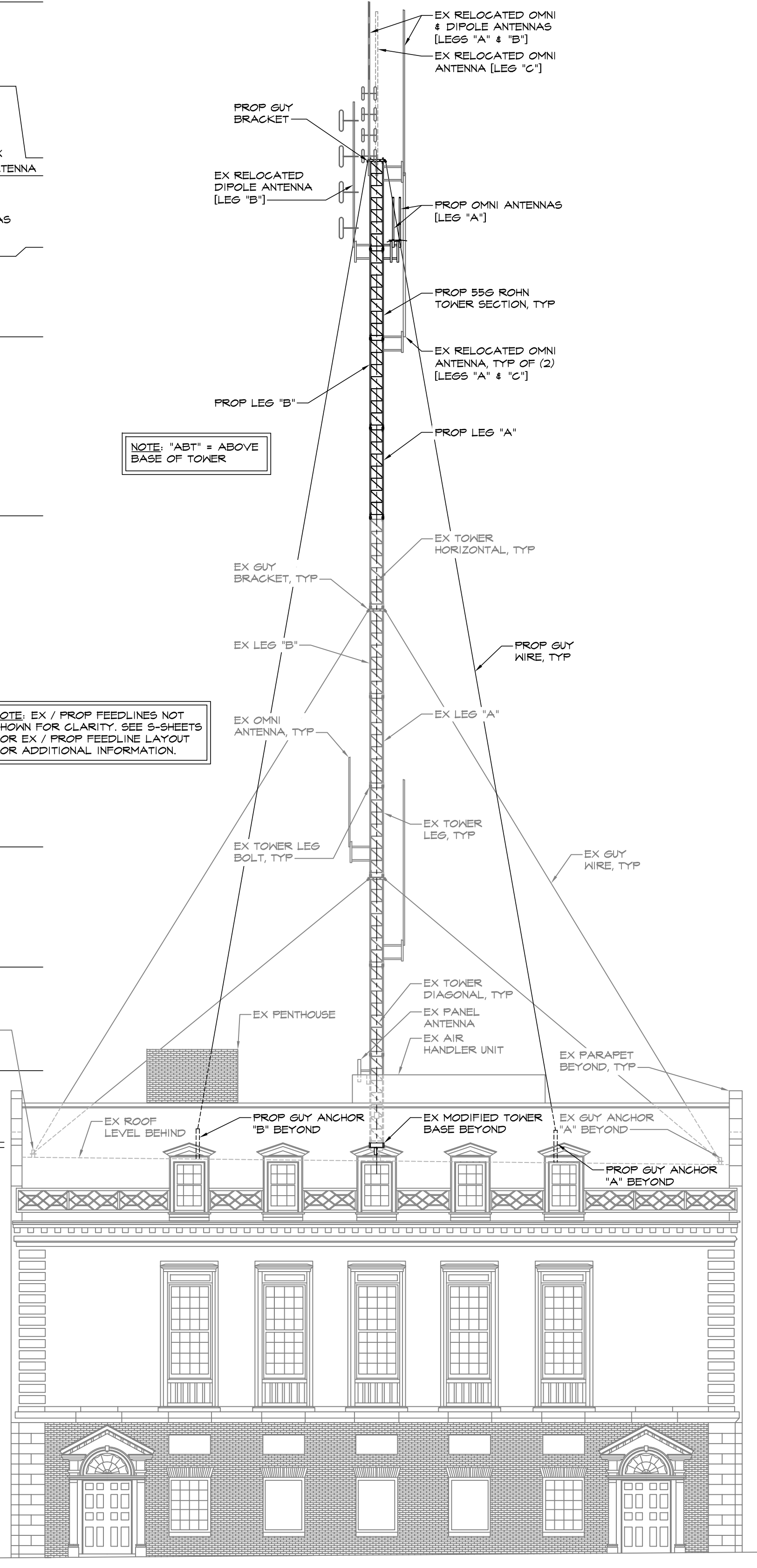
ROOF PLAN
 SCALE: 1/8" = 1'-0"

- TOP OF EX HIGHEST APERTURANCE
 ELEV = 88'-5" (ABT)
 ELEV = 134'-5" (AGL)
- TOP OF EX TOWER
 ELEV = 70'-0" (ABT)
 ELEV = 116'-0" (AGL)
- (2) EX OMNI ANTENNAS TO BE RELOCATED
 ELEV = 48'-0" (ABT)
 ELEV = 94'-0" (AGL)
- (2) EX OMNI ANTENNAS TO BE REMOVED
 ELEV = 41'-0" (ABT)
 ELEV = 87'-0" (AGL)
- (1) EX DISH ANTENNA TO BE REMOVED
 ELEV = 36'-0" (ABT)
 ELEV = 82'-0" (AGL)
- (1) EX OMNI ANTENNA TO BE REMOVED
 ELEV = 33'-0" (ABT)
 ELEV = 79'-0" (AGL)
- (1) EX OMNI ANTENNA TO REMAIN
 ELEV = 22'-0" (ABT)
 ELEV = 68'-0" (AGL)
- (1) EX PANEL ANTENNA TO REMAIN
 ELEV = 8'-0" (ABT)
 ELEV = 54'-0" (AGL)
- EX BASE OF TOWER
 ELEV = 0'-0" (ABT)
 ELEV = 46'-0" (AGL)
- TOP OF EX BASE PLATE
 ELEV = -0'-1" (ABT)
 ELEV = 45'-5" (AGL)
- EX GRADE
 ELEV = 0'-0" (AGL)



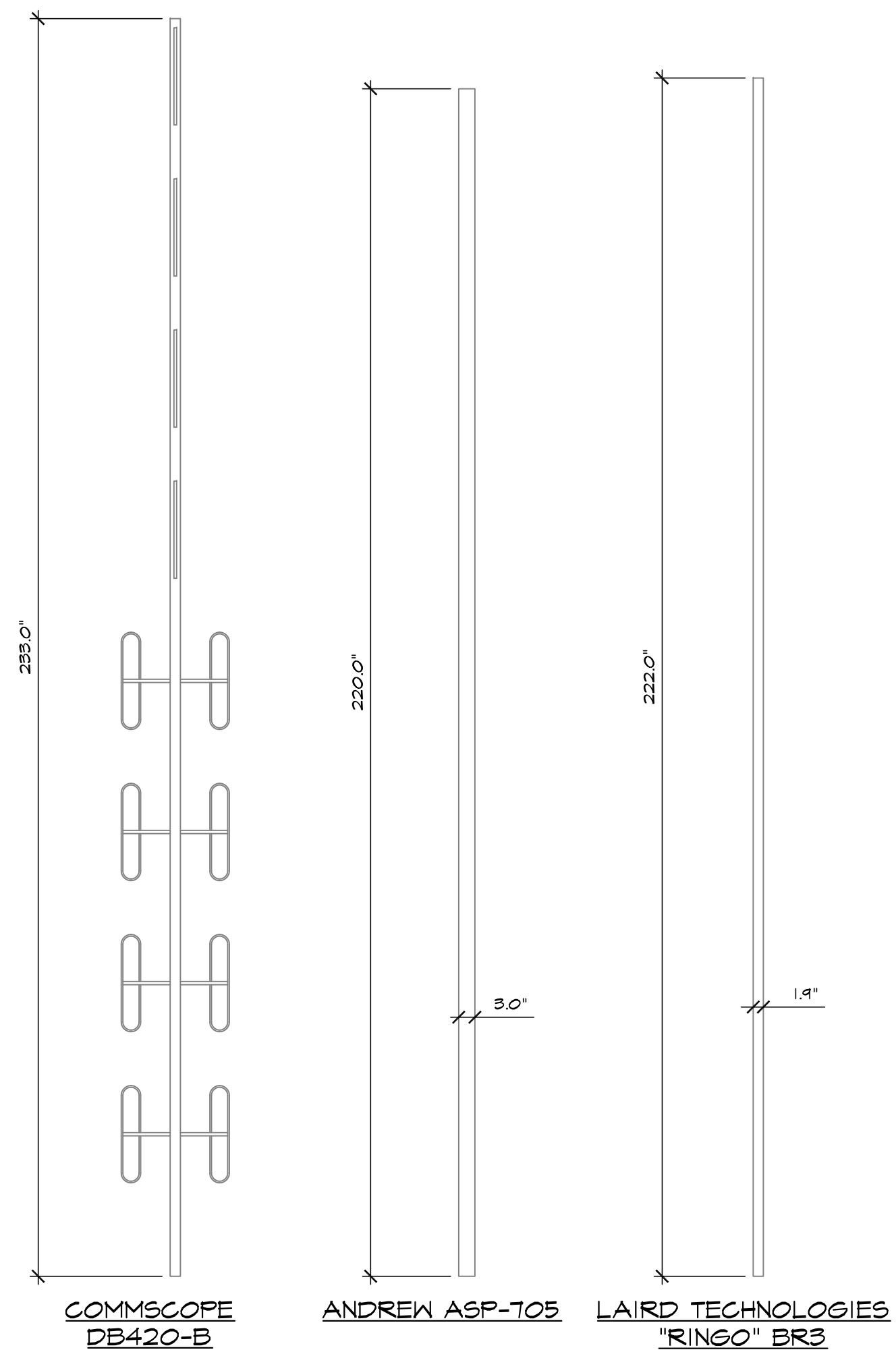
EX BUILDING / TOWER NORTHEAST ELEVATION
 SCALE: 1" = 10'-0"

- TOP OF PROP HIGHEST APERTURANCE
 ELEV = 127'-5" (ABT)
 ELEV = 173'-5" (AGL)
- TOP OF PROP TOWER EXTENSION
 ELEV = 110'-0" (ABT)
 ELEV = 156'-0" (AGL)
- (2) EX RELOCATED OMNI ANTENNAS & (1) EX RELOCATED DIPOLE ANTENNA
 ELEV = 108'-0" (ABT)
 ELEV = 154'-0" (AGL)
- (2) PROP OMNI ANTENNAS & (1) EX RELOCATED DIPOLE ANTENNA
 ELEV = 100'-0" (ABT)
 ELEV = 146'-0" (AGL)
- (2) EX RELOCATED OMNI ANTENNAS
 ELEV = 40'-0" (ABT)
 ELEV = 136'-0" (AGL)
- TOP OF EX TOWER
 ELEV = 70'-0" (ABT)
 ELEV = 116'-0" (AGL)
- (1) EX OMNI ANTENNA TO REMAIN
 ELEV = 33'-0" (ABT)
 ELEV = 79'-0" (AGL)
- (1) EX OMNI ANTENNA TO REMAIN
 ELEV = 22'-0" (ABT)
 ELEV = 68'-0" (AGL)
- (1) EX PANEL ANTENNA TO REMAIN
 ELEV = 8'-0" (ABT)
 ELEV = 54'-0" (AGL)
- EX BASE OF TOWER
 ELEV = 0'-0" (ABT)
 ELEV = 46'-0" (AGL)
- TOP OF EX BASE PLATE
 ELEV = -0'-1" (ABT)
 ELEV = 45'-5" (AGL)
- EX GRADE
 ELEV = 0'-0" (AGL)

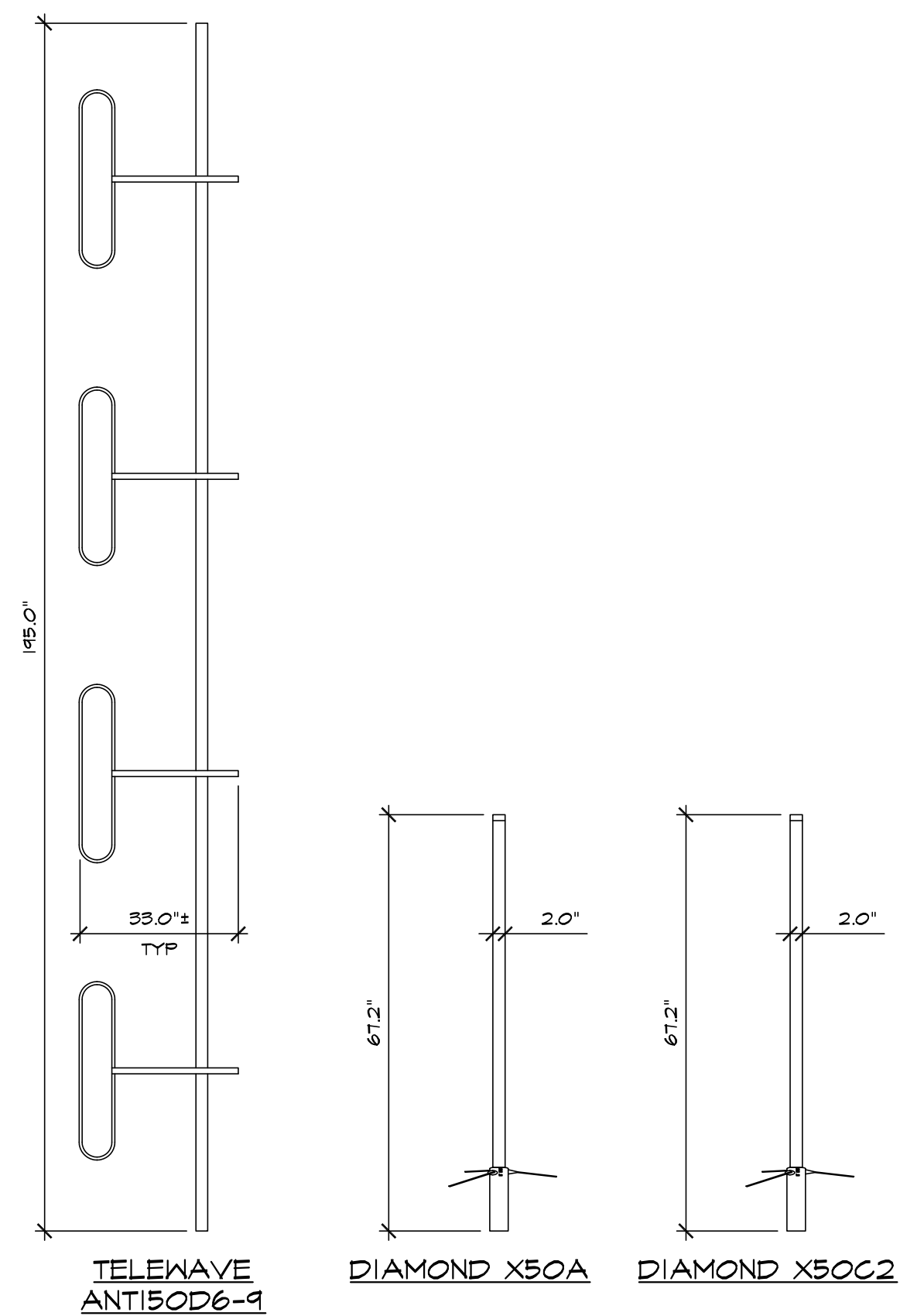


PROP BUILDING / TOWER NORTHEAST ELEVATION
 SCALE: 1" = 10'-0"

A B C D E F G H J K L M N P Q R



EX ANTENNA DETAILS
SCALE: 1/2" = 1'-0"

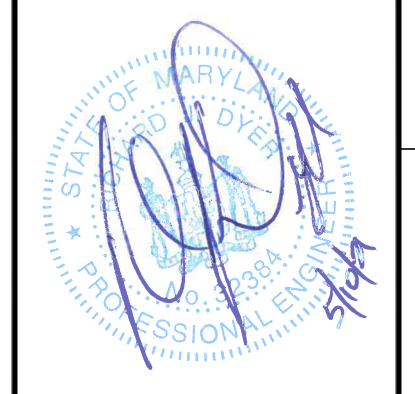


PROP ANTENNA DETAILS
SCALE: 1/2" = 1'-0"

APPURTENANCE	FREQUENCY	APPROXIMATE ELEVATION (ABOVE BASE OF TOWER)	APPROXIMATE ELEVATION (ABOVE GRADE LEVEL)	MOUNT	FEEDLINE SIZE	INSTALLATION STATUS	TOWER LEG / FACE
(1) LAIRD TECHNOLOGIES 'RINGO' BR3	33.86 MHz	108' (BASE)	154' (BASE)	(1) 2' SIDE ARM	(1) 3/8" COAX (BAND MOUNTED TO LEG B)	EXISTING / RELOCATED	LEG A
(1) COMMSCOPE DB420-B (OR SIMILAR)	450-470 MHz			DIRECT	(1) 1/4" COAX (BAND MOUNTED TO LEG B)		LEG B
(1) ANDREW ASP-705	450-470 MHz			(1) 3' SIDE ARM	(1) 3/8" COAX (BAND MOUNTED TO LEG B)		LEG C
(1) TELEWAVE ANTISOD6-9	158-174 MHz	100' (BASE)	146' (BASE)	(3) 3' SIDE ARMS (OR SIMILAR)	(3) COMMSCOPE LDPS-30A (1) BAND MOUNTED TO LEG A & (2) BAND MOUNTED TO LEG C)	PROPOSED (RELOCATED FROM ELEVATOR SHAFT)	LEG B
(1) DIAMOND X50A	450 MHz					PROPOSED	LEG A
(1) DIAMOND X50C2	450 MHz					PROPOSED	LEG A
(2) ANDREW ASP-705	450-470 MHz	90' (BASE)	136' (BASE)	(2) 3' SIDE ARMS	(2) 1/4" COAX (BAND MOUNTED TO LEG B)	EXISTING / RELOCATED	LEGS A & C
(2) 4' OMNI ANTENNAS	UHF CONSOLETTES	41' (BASE)	81' (BASE)	(2) 3' SIDE ARMS	(2) 1/2" COAX TO REMAIN (BAND MOUNTED TO LEG C / CAP END OF COAX TO WATER PROOF)	TO BE REMOVED	LEGS A & C
(1) 2' DISH w/o RADOME	UNKNOWN	36' (CL)	82' (CL)	DIRECT	(1) 1/2" COAX		LEG B
(1) 4' OMNI ANTENNA	UHF CONSOLETTA	35' (BASE)	81' (BASE)	(1) 3' SIDE ARM	(1) 1/2" COAX TO REMAIN (BAND MOUNTED TO LEG C / CAP END OF COAX TO WATER PROOF)		LEG C
(1) TMA	UNKNOWN	34' (CL)	80' (CL)	DIRECT	(1) 1/2" COAX (SHARED WITH DISH ABOVE)		LEG B
(1) 10' OMNI ANTENNA	453.65 MHz	33' (BASE)	74' (BASE)	(1) 2' SIDE ARM	(1) 3/8" COAX (BAND MOUNTED TO LEG C)		LEG B
(1) LAIRD TECHNOLOGIES 'RINGO' BR3	33.86 MHz	22' (BASE)	68' (BASE)	(1) 3' SIDE ARM	(1) 1/2" COAX (BAND MOUNTED TO LEG C)		LEG A
(1) 30"x8"x4" PANEL ANTENNA	LG WIFI	8' (CL)	54' (CL)	(1) 1' SIDE ARM	(2) CAT5 CABLES (DIRECT FROM ROOFTOP CABLE TRAY)	EXISTING	LEG B
(1) TMA		7' (CL)	53' (CL)				LEG B
(1) TOWER CLIMBER WARNING SIGN	N/A	5' (CL)	49' (CL)	DIRECT	N/A		FACE B

APPURTENANCE / FEEDLINE TABLE

MRA
MORRIS & RITCHIE ASSOCIATES, INC.
Civil / Structural Engineers
1320-C East Joppa Road, Suite 505
Towson, Maryland 21286
410-821-1690
410-821-1748 Fax



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32284, EXPIRATION DATE: 11/01/2021.

Washington County
MARYLAND
WEST WASHINGTON STREET
33/35 WEST WASHINGTON STREET
HAGERSTOWN, MARYLAND 21740 (WASHINGTON CO.)

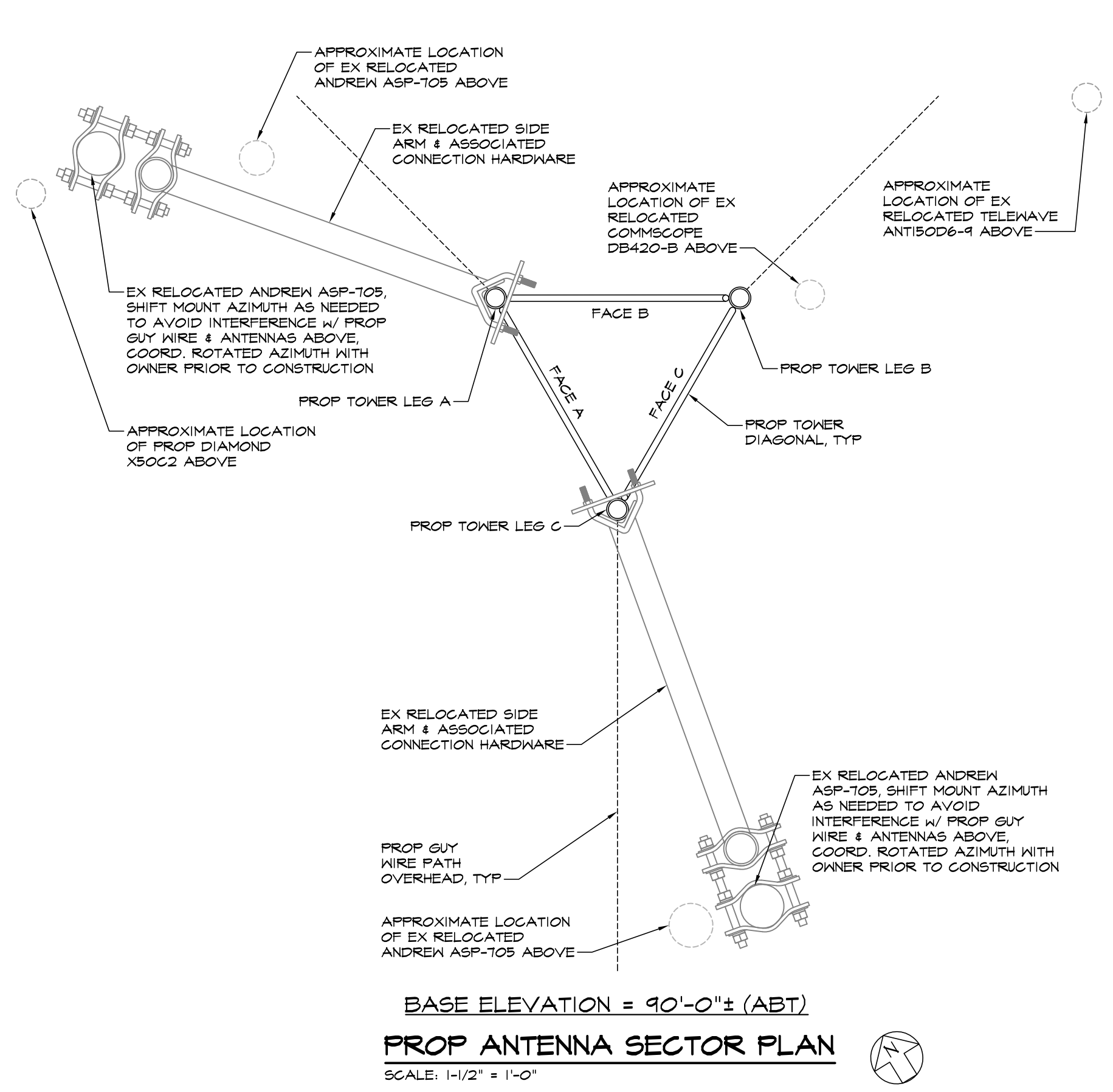
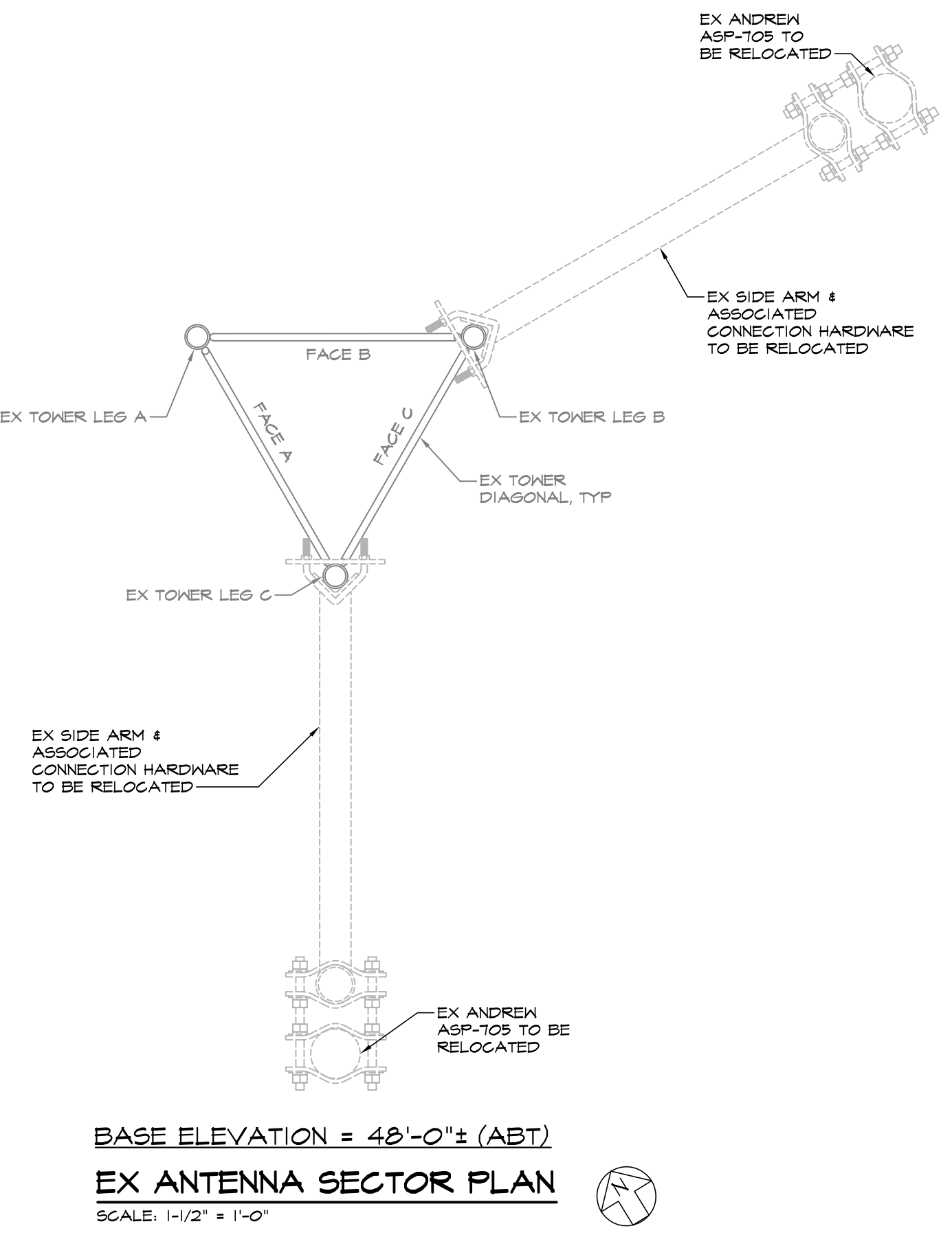
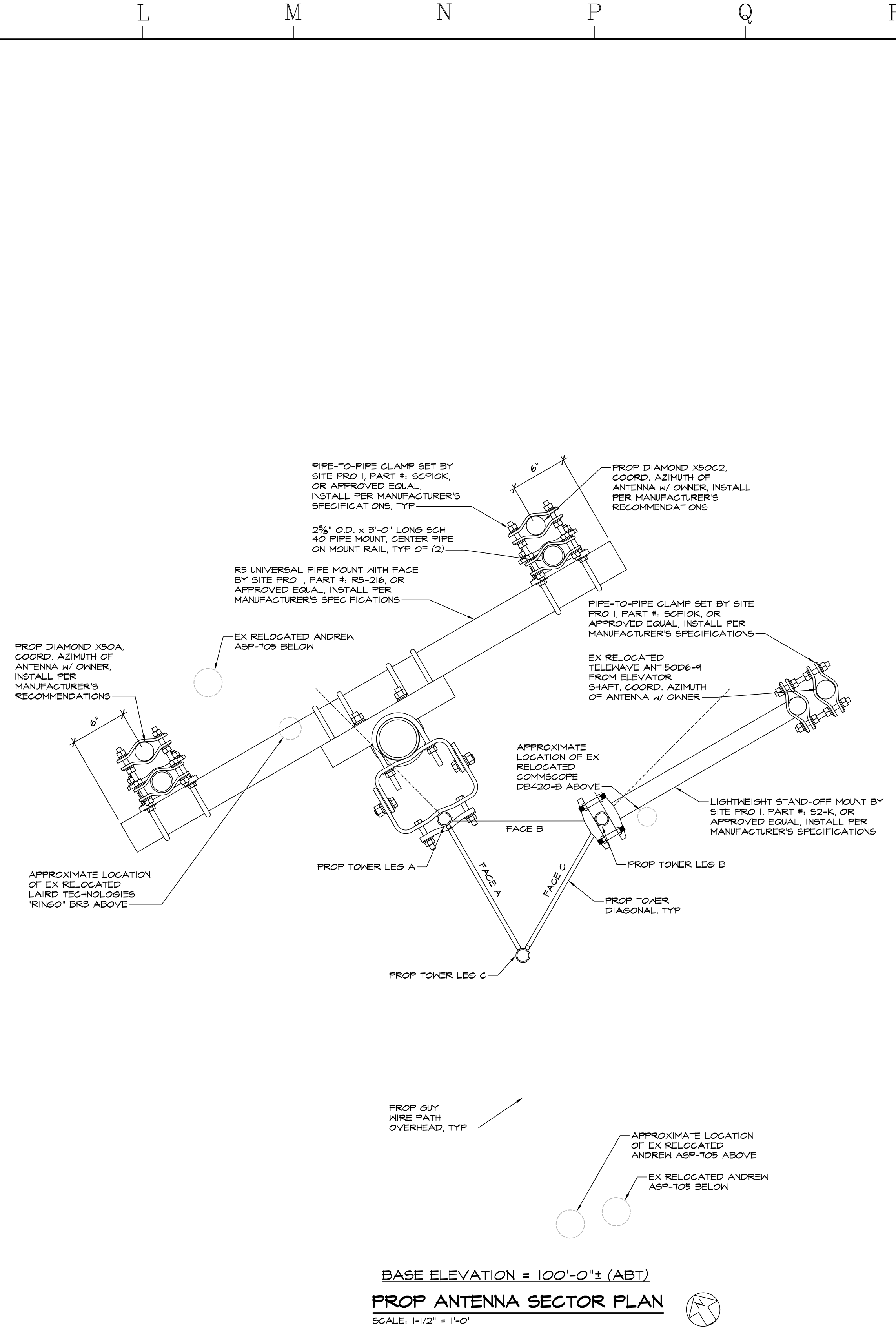
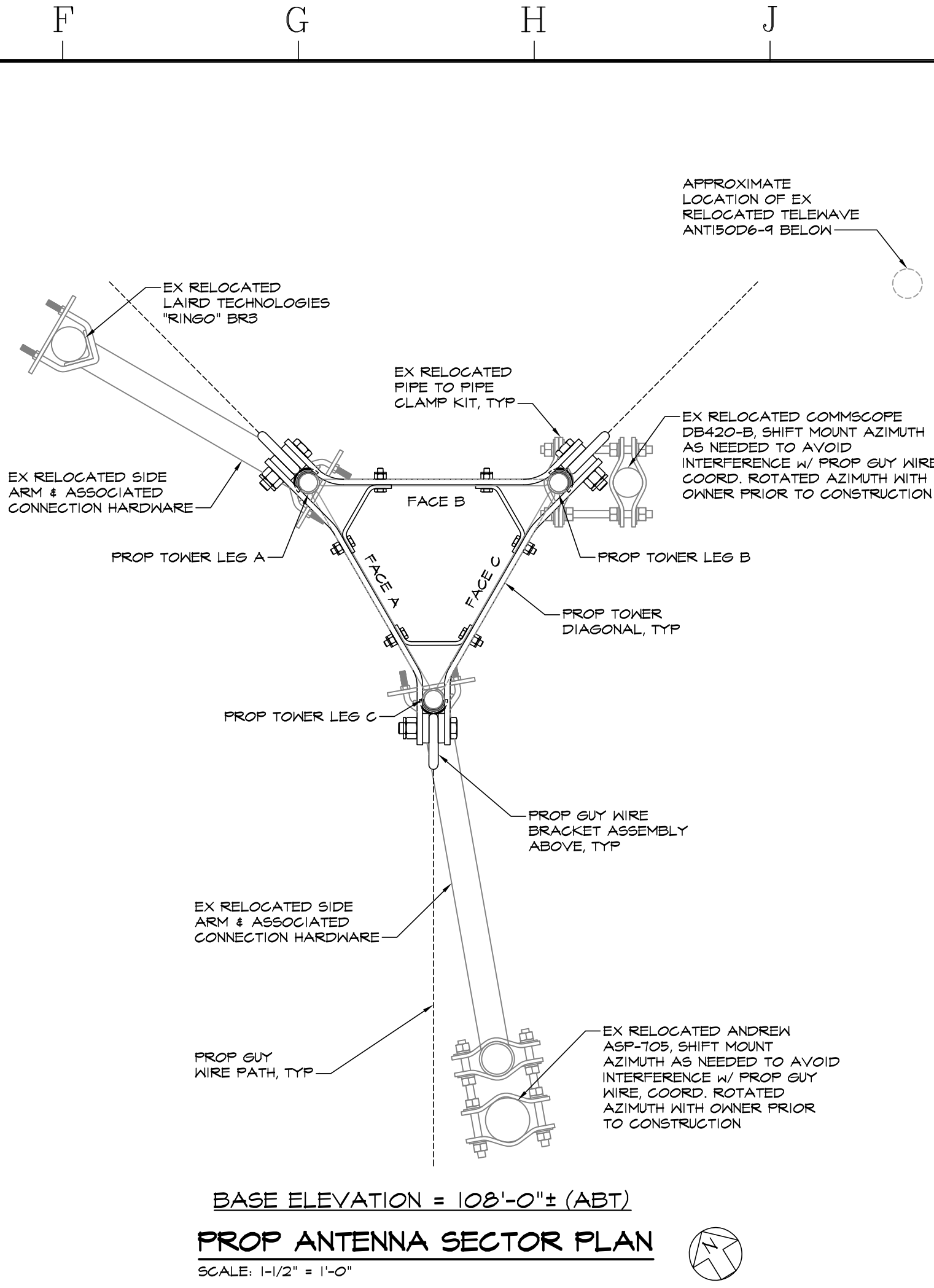
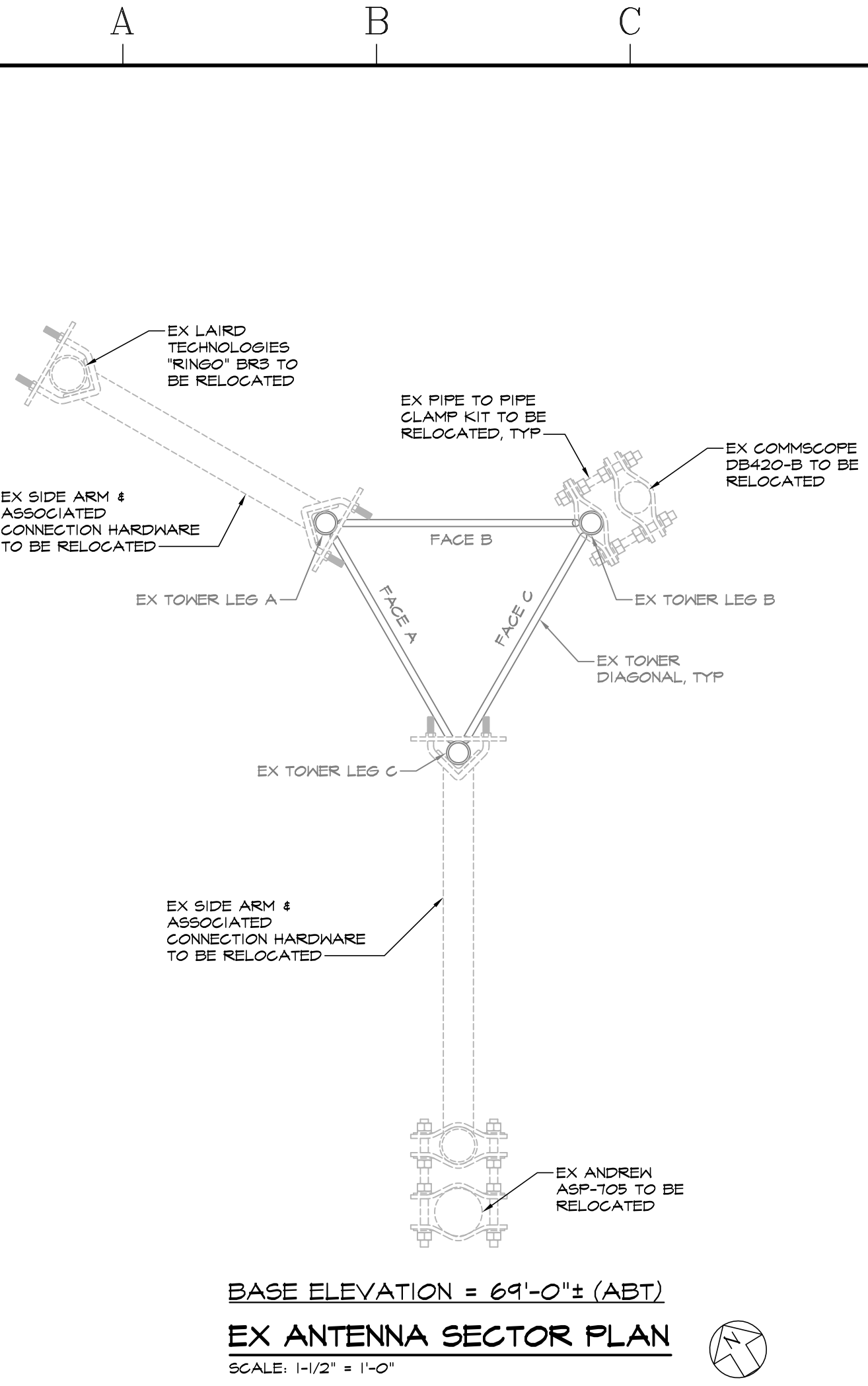
REVISIONS:

NO.	DESCRIPTION	DATE
	BUILDING PERMIT	03/01/21
Δ	FEEDLINE REV	06/10/21

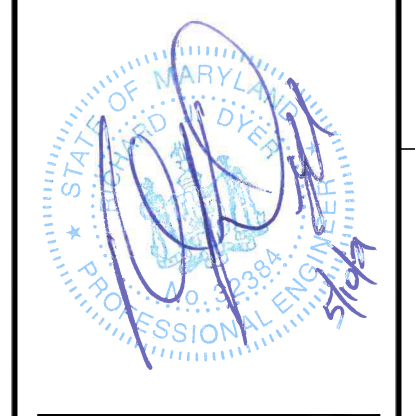
DESIGNED BY: JSN
PROJECT NO: 21018.001
DATE: 12/22/20
SCALE: AS NOTED

TITLE:
Antenna Details & Appurtenance Sheet

SHEET:
C-3



MRA
MORRIS & RITCHIE
ASSOCIATES, INC.
Civil/Structural Engineers
1320-C East Joppa Road, Suite 505
Towson, Maryland 21286
410-821-1800
410-821-1748 Fax



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 82584, EXPIRATION DATE: 11/01/2021.

Washington County
MARYLAND
WEST WASHINGTON STREET
33/35 WEST WASHINGTON STREET
HAGERSTOWN, MARYLAND 21740 (WASHINGTON CO.)

REVISIONS:

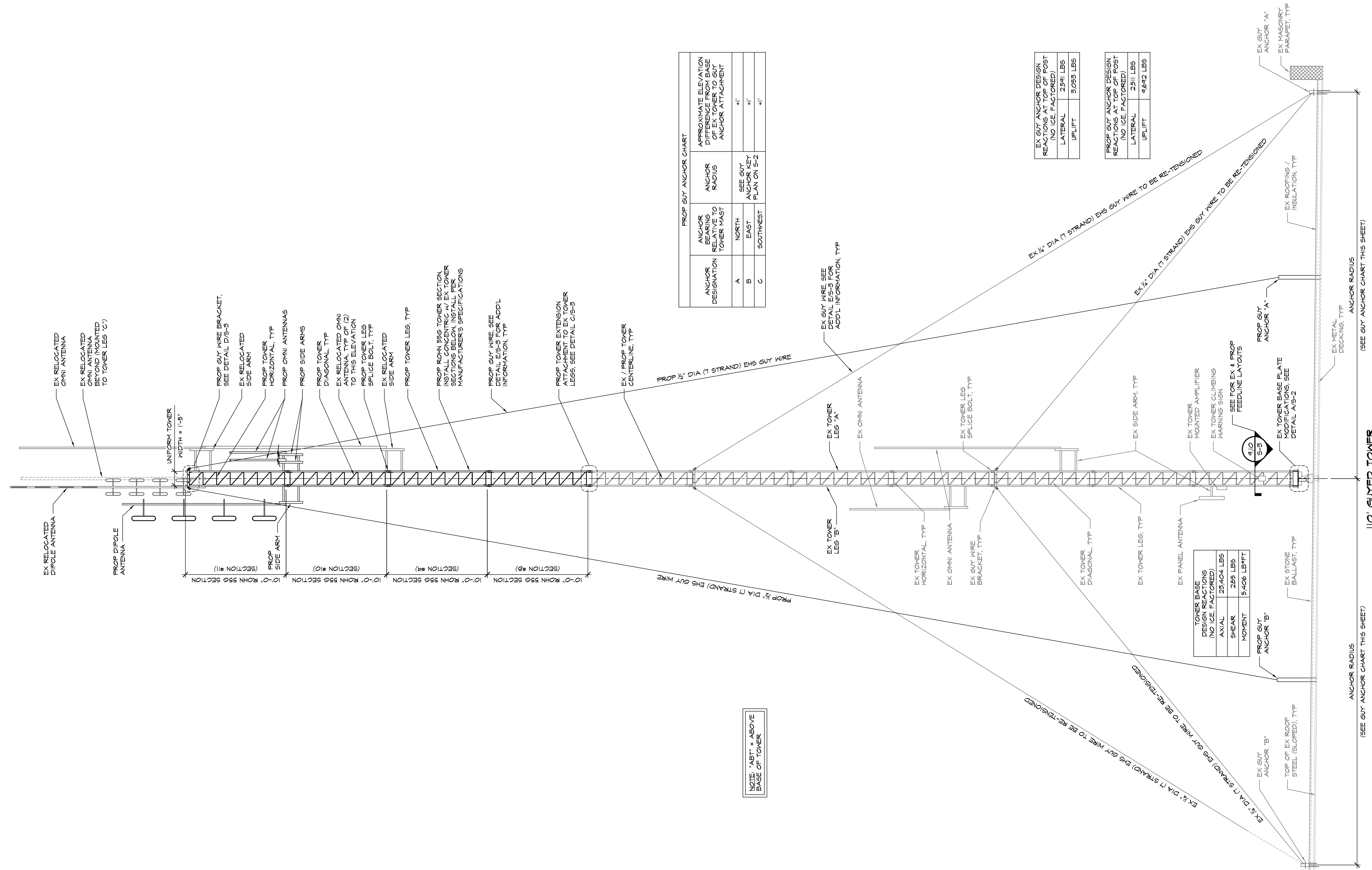
NO.	DESCRIPTION	DATE
1	BUILDING PERMIT	03/01/21
2	FEEDLINE REV	06/10/21

DESIGNED BY: JSN
PROJECT NO: 21018.001
DATE: 12/22/20
SCALE: AS NOTED

TITLE:
Antenna Sector Plans

SHEET:
C-4

A B C D E F G H J K L M N P Q R



PROP GUY ANCHOR CHART

ANCHOR DESIGNATION	ANCHOR BEARING TO TOWER MASS	ANCHOR RADIUS	APPROXIMATE ELEVATION DIFFERENCE FROM BASE TO ANCHOR ATTACHMENT
A	NORTH	SEE GUY ANCHOR KEY PLAN ON S-2	4"
B	EAST	SEE GUY ANCHOR KEY PLAN ON S-2	4"
C	SOUTHWEST	SEE GUY ANCHOR KEY PLAN ON S-2	4"

EX GUY ANCHOR DESIGN REACTIONS AT TOP OF POST (NO ICE FACTORED)

LATERAL	2341 LBS
UPLIFT	9,099 LBS

PROP GUY ANCHOR DESIGN REACTIONS AT TOP OF FOOT (NO ICE FACTORED)

LATERAL	2311 LBS
UPLIFT	9,642 LBS

EX GUY ANCHOR DESIGN REACTIONS AT TOP OF FOOT (NO ICE FACTORED)

LATERAL	2311 LBS
UPLIFT	9,642 LBS

- TOP OF PROP TOWER SECTION #11
ELEV = 110'-0" (ABT)
ELEV = 156'-0" (ASL)
- TOP OF PROP TOWER SECTION #10
ELEV = 100'-0" (ABT)
ELEV = 146'-0" (ASL)
- TOP OF PROP TOWER SECTION #9
ELEV = 90'-0" (ABT)
ELEV = 136'-0" (ASL)
- TOP OF PROP TOWER SECTION #8
ELEV = 80'-0" (ABT)
ELEV = 126'-0" (ASL)
- TOP OF EX TOWER SECTION #7
ELEV = 70'-0" (ABT)
ELEV = 116'-0" (ASL)
- TOP OF EX TOWER SECTION #6
ELEV = 60'-0" (ABT)
ELEV = 106'-0" (ASL)
- TOP OF EX TOWER SECTION #5
ELEV = 50'-0" (ABT)
ELEV = 96'-0" (ASL)
- TOP OF EX TOWER SECTION #4
ELEV = 40'-0" (ABT)
ELEV = 86'-0" (ASL)
- TOP OF EX TOWER SECTION #3
ELEV = 30'-0" (ABT)
ELEV = 76'-0" (ASL)
- TOP OF EX TOWER SECTION #2
ELEV = 20'-0" (ABT)
ELEV = 66'-0" (ASL)
- TOP OF EX TOWER SECTION #1
ELEV = 10'-0" (ABT)
ELEV = 56'-0" (ASL)
- BOTTOM OF EX TOWER SECTION #1
ELEV = 0'-0" (ABT) [DATA]
ELEV = 46'-0" (ASL)
- EX BASE OF TOWER
ELEV = 0'-0" (ABT)
ELEV = 45'-5" (ASL)
- TOP OF EX ROOF STEEL (HIGH SIDE)
ELEV = 2'-11 1/2" (ABT)
ELEV = 48'-11 1/2" (ASL)

MEMBER SIZE TABLE

EX LEGS	ROHN T51.5x11.9a
EX DIAGONALS	ROHN T51.5x11.9a
EX HORIZONTALS	ROHN T51.5x11.9a
PROP DIAGONALS	ROHN T51.5x11.9a
PROP HORIZONTALS	ROHN T51.5x11.9a

MRA
MORRIS & RITCHE ASSOCIATES, INC.
 Civil / Structural Engineers
 1320-C East Joppa Road, Suite 505
 Towson, Maryland 21286
 410-821-1800
 410-821-1748 Fax

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 82584, EXPIRATION DATE: 11/01/2021.

Washington County
 MARYLAND
WEST WASHINGTON STREET
33/35 WEST WASHINGTON STREET
HAGERSTOWN, MARYLAND 21740 (WASHINGTON CO.)

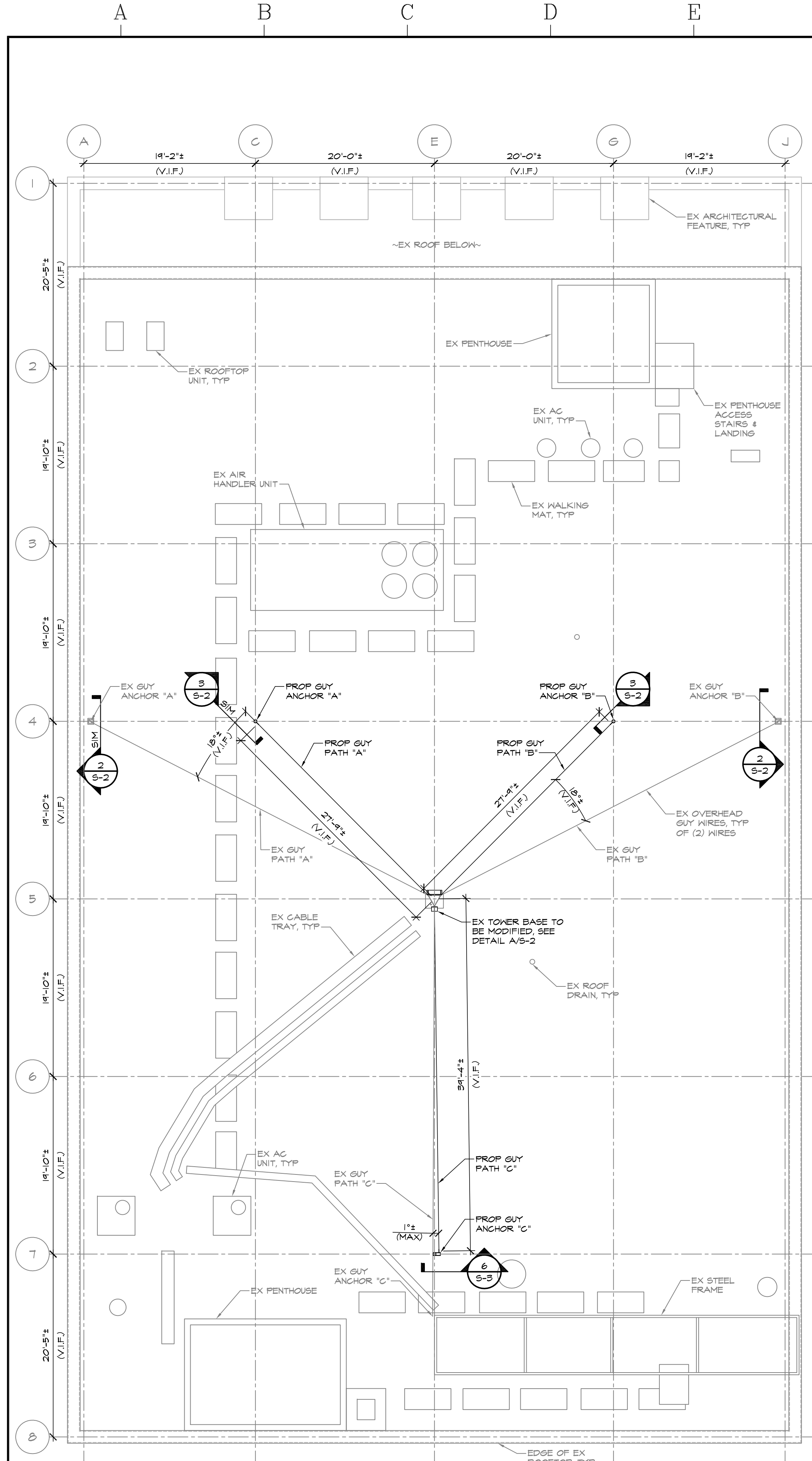
REVISIONS:

NO.	DESCRIPTION	DATE
	BUILDING PERMIT	03/01/21
Δ	FEEDLINE REV	06/10/21

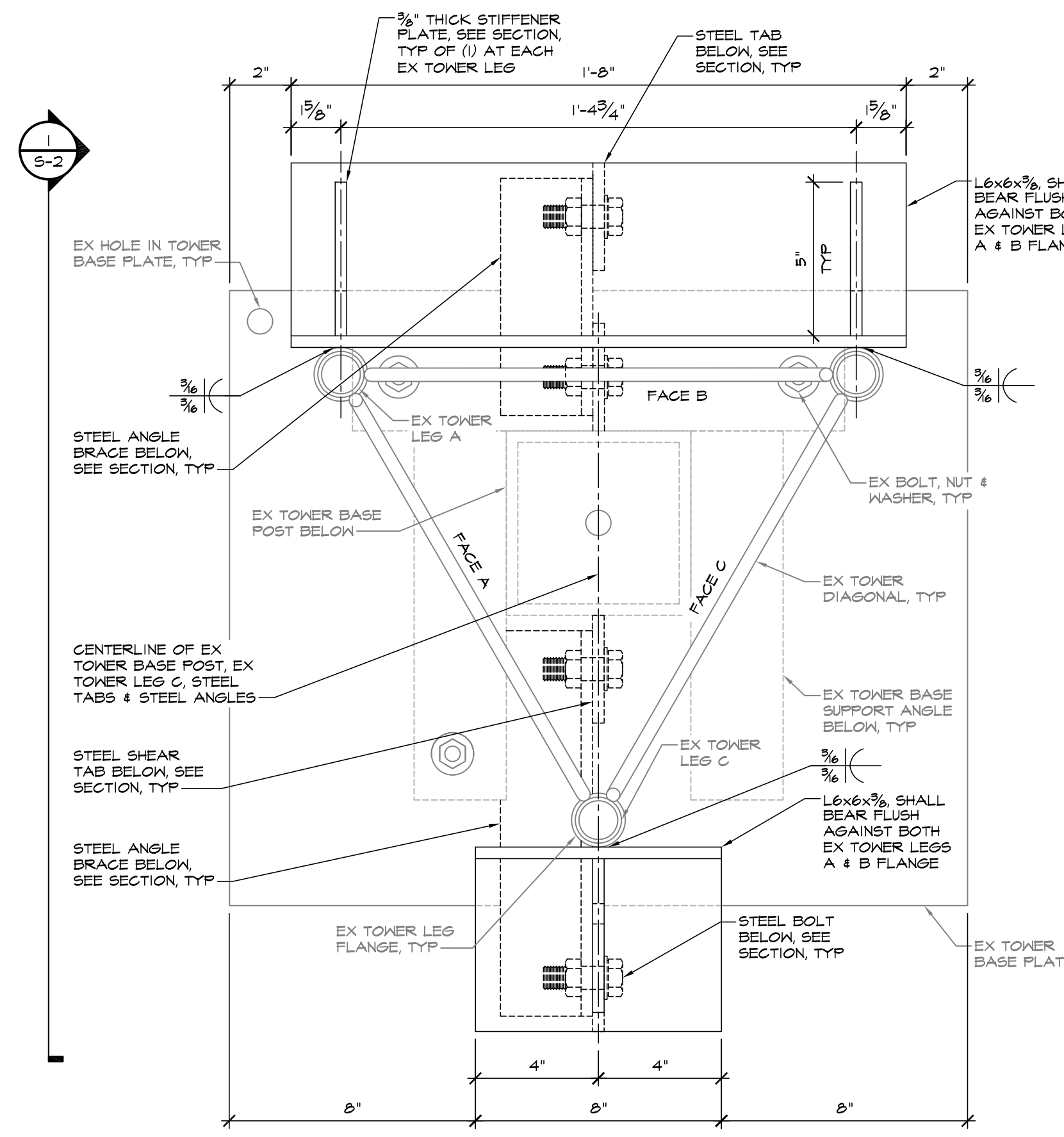
DESIGNED BY: JSN
 PROJECT NO: 21018.001
 DATE: 12/22/20
 SCALE: AS NOTED

TITLE:
Tower Elevation

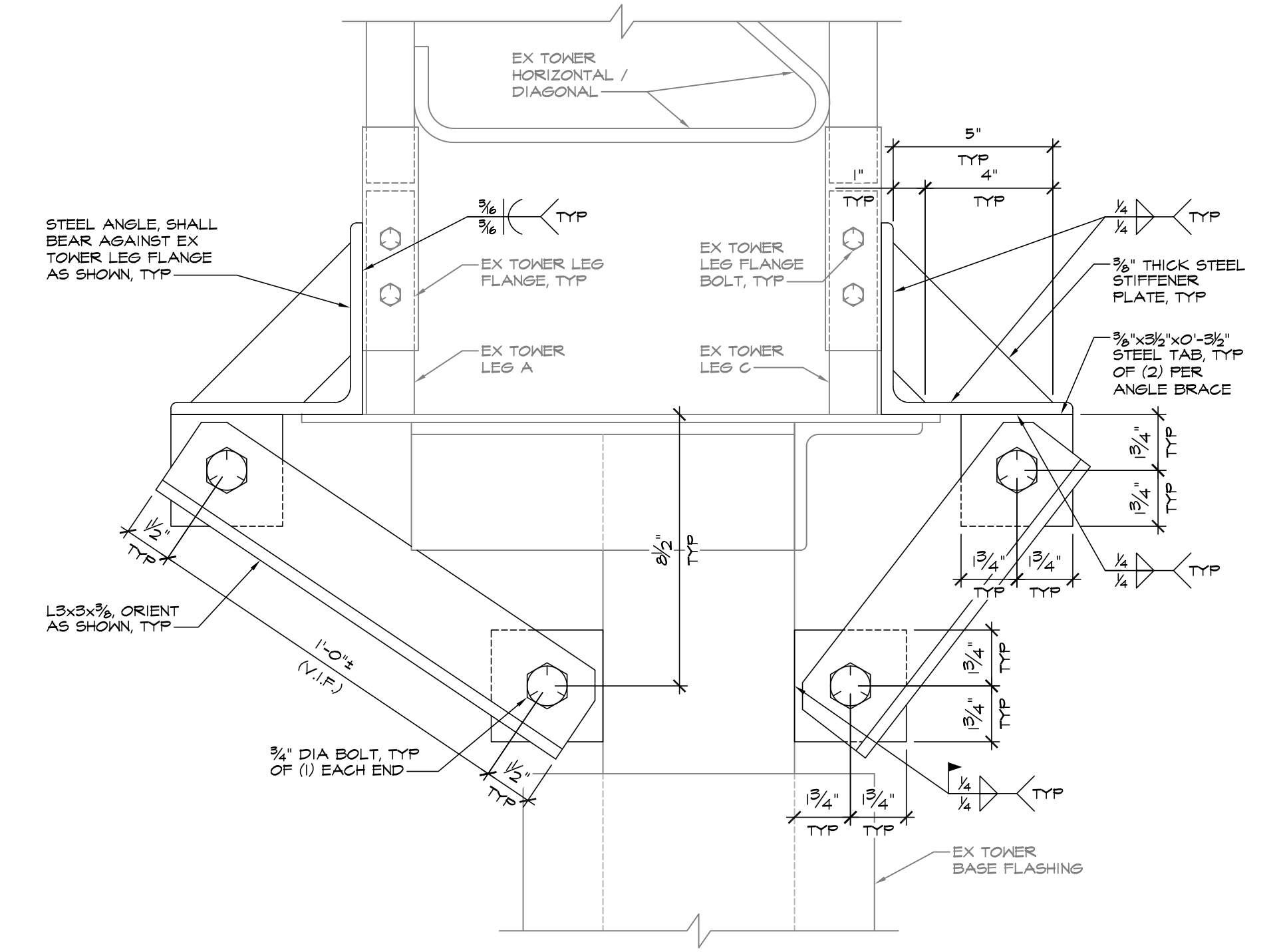
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S-1



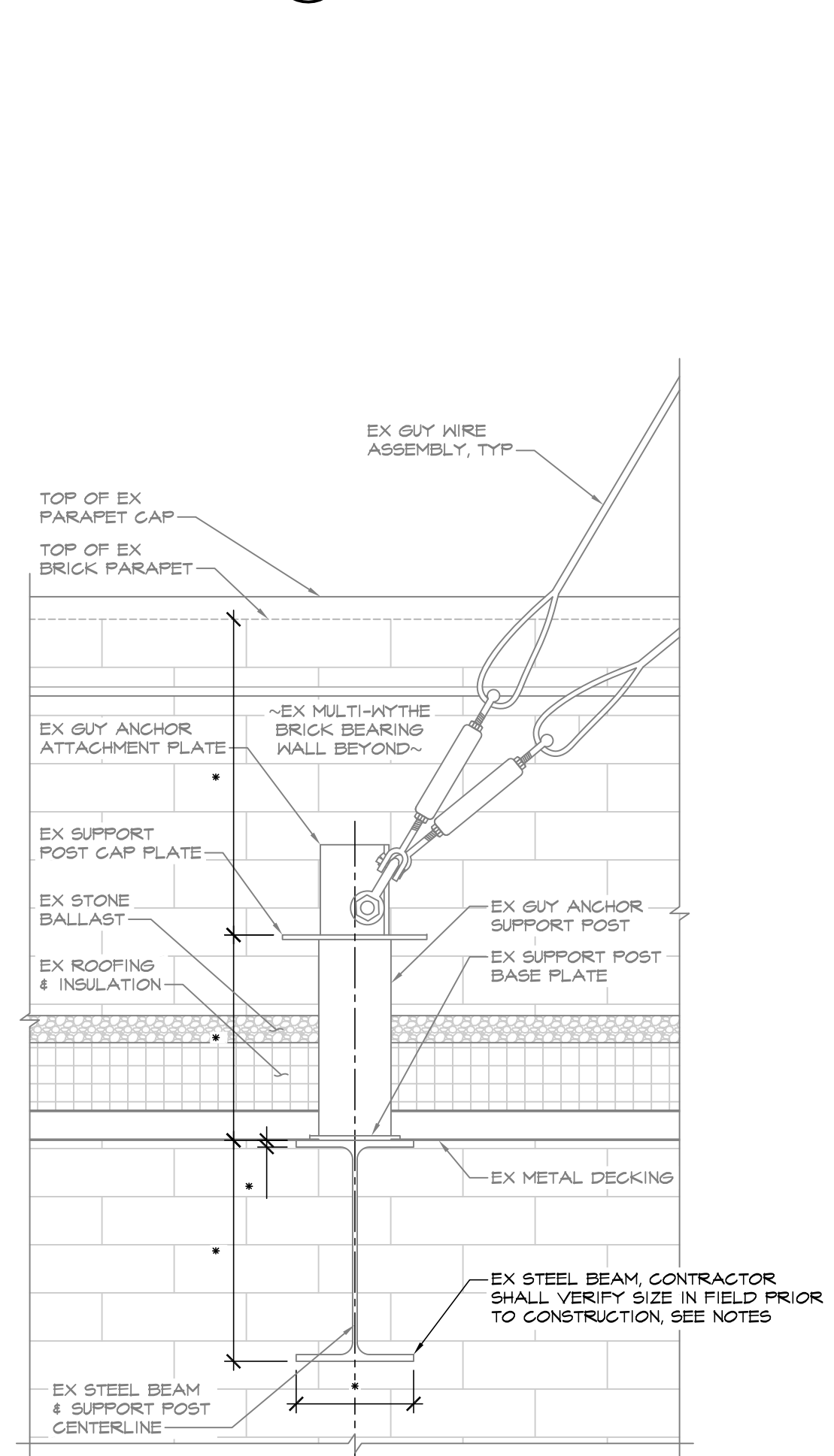
GUY ANCHOR KEY PLAN
SCALE: 1" = 40'-0"



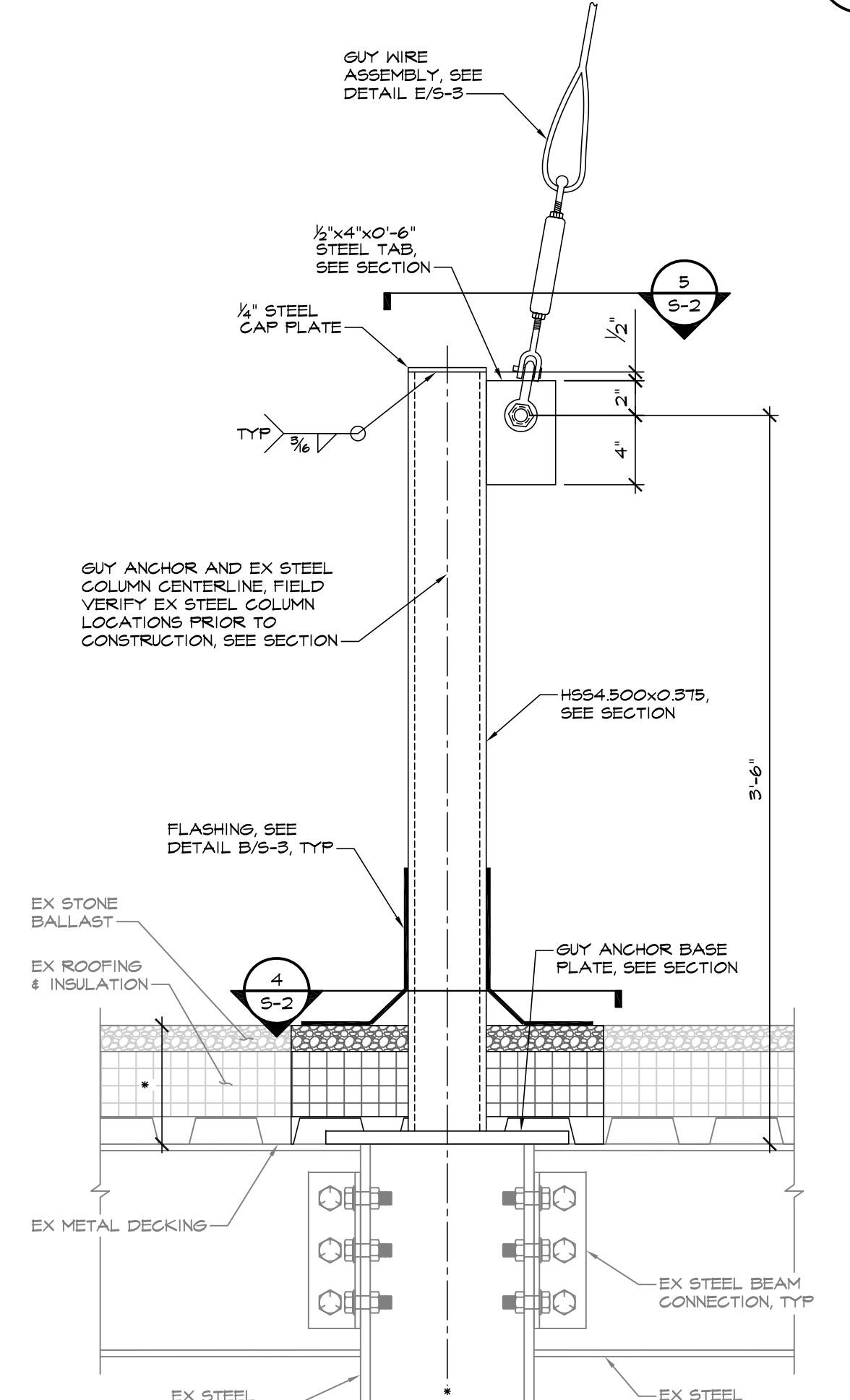
TOWER BASE PLATE MODIFICATION
SCALE: 3" = 1'-0"



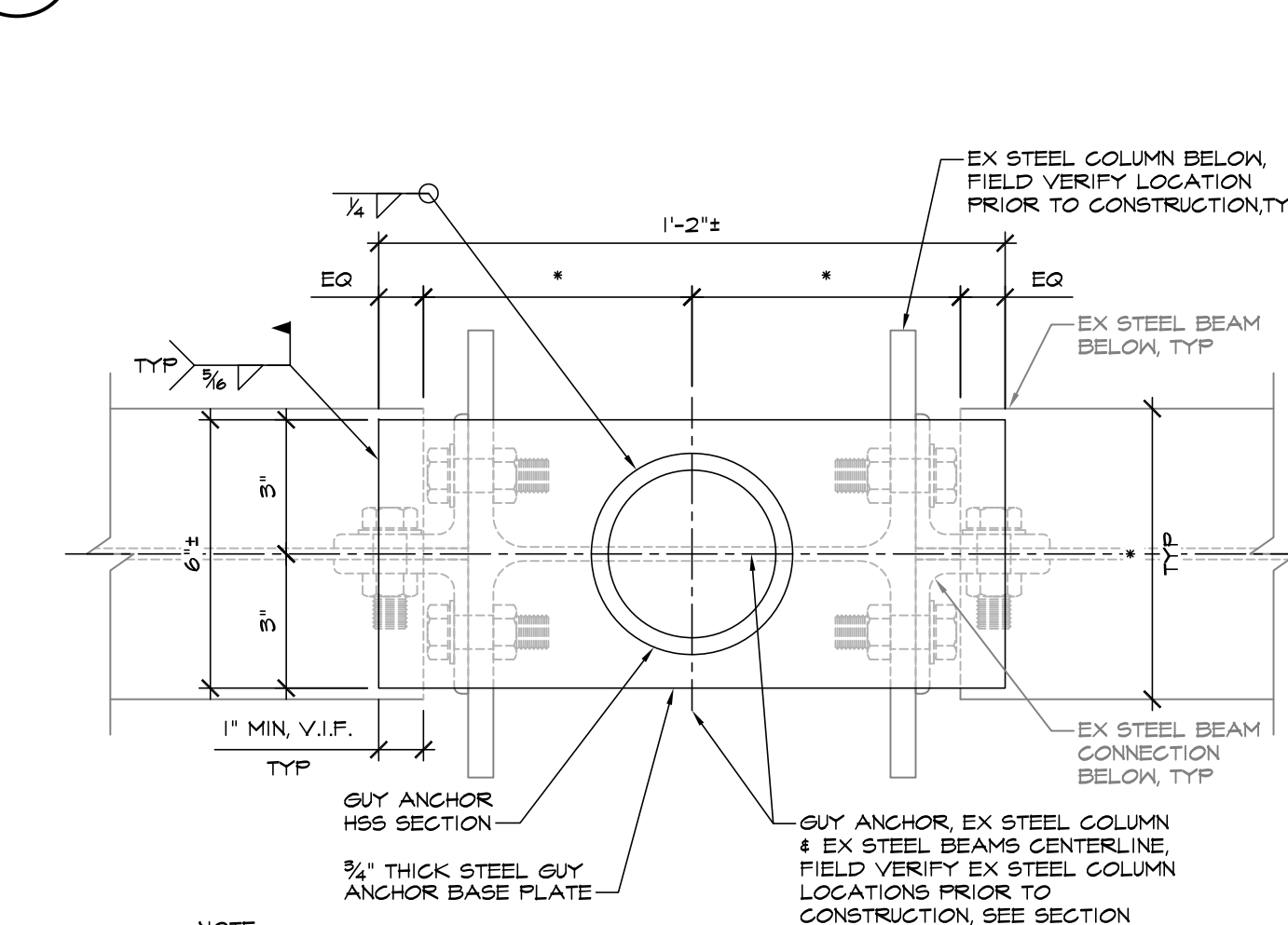
TOWER BASE PLATE MODIFICATION
SCALE: 3" = 1'-0"



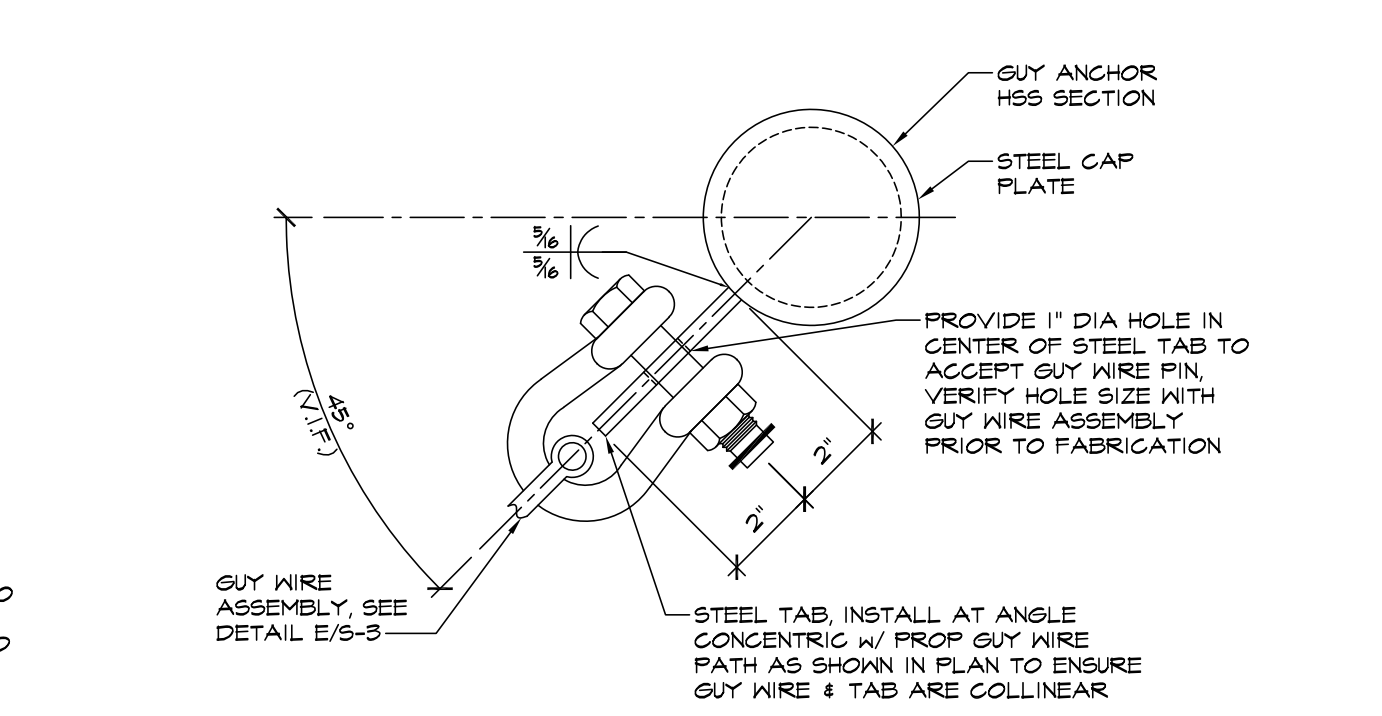
FIELD VERIFICATION AT EX GUY ANCHORS
SCALE: 1-1/2" = 1'-0"



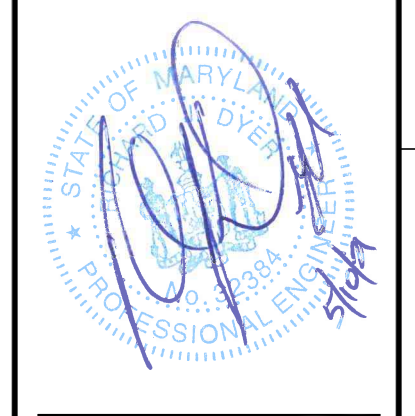
GUY ANCHORS "A" & "B"
SCALE: 1-1/2" = 1'-0"



TYP GUY ANCHOR BASE CONNECTION
SCALE: 3" = 1'-0"



GUY WIRE ANCHORS "A" & "B" ATTACHMENT
SCALE: 3" = 1'-0"



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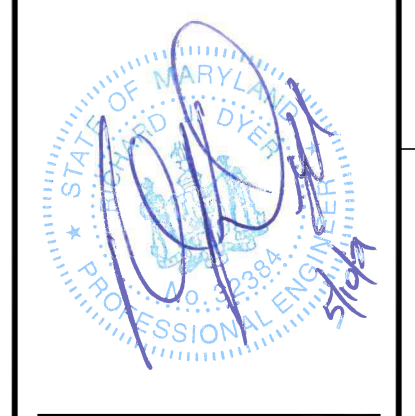
NO.	DESCRIPTION	DATE
1	BUILDING PERMIT	03/01/21
2	FEEDLINE REV	06/10/21

DESIGNED BY: JSN
PROJECT NO: 21018.001
DATE: 12/22/20
SCALE: AS NOTED

TITLE:
Guy Anchor Plan, Sections, & Details

SHEET:

S-2



PROFESSIONAL CERTIFICATION
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REVISIONS:

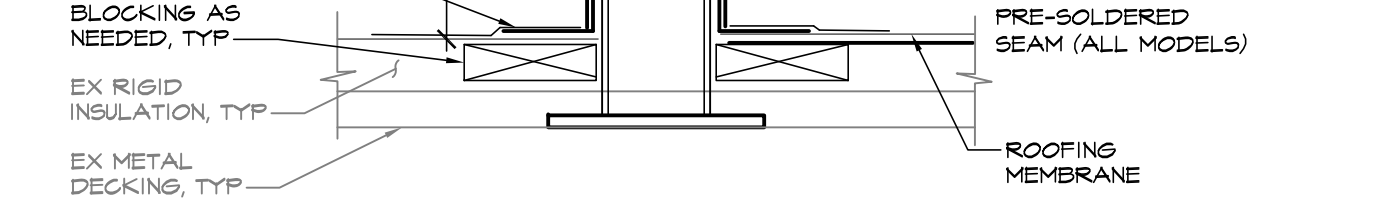
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2	FEEDLINE REV	06/10/21

DESIGNED BY: JSN
 PROJECT NO: 21018.001
 DATE: 12/22/20
 SCALE: AS NOTED

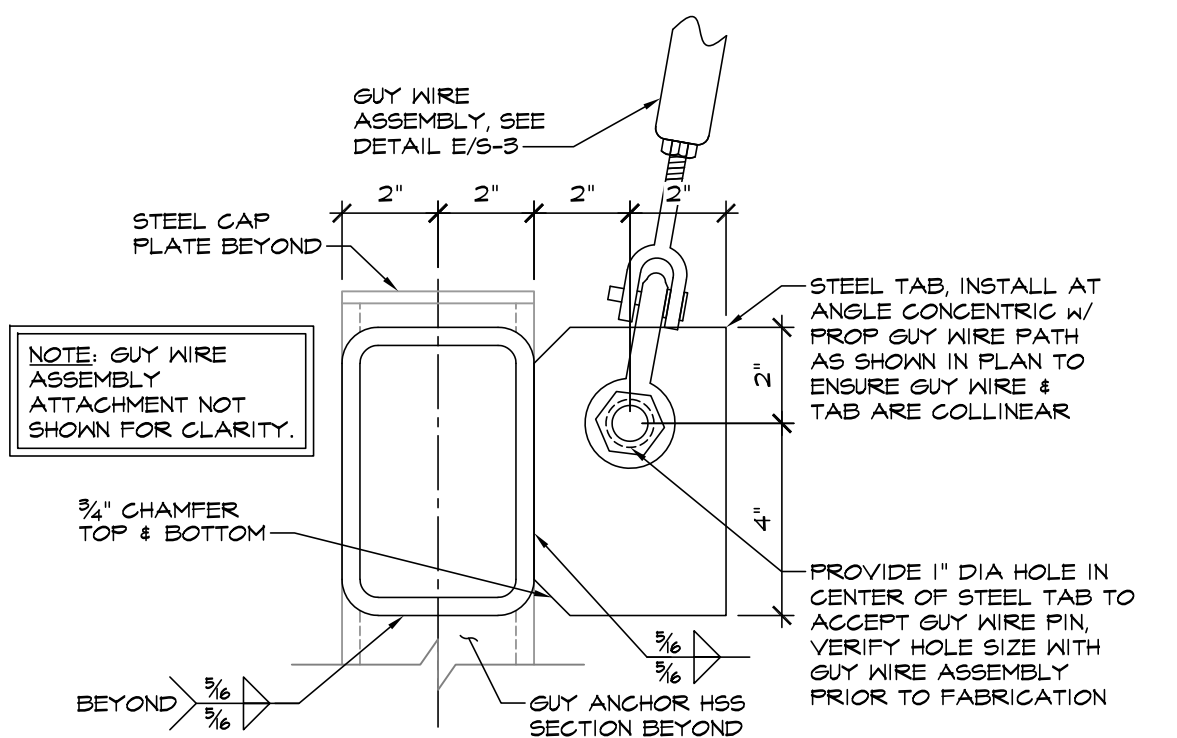
TITLE:
Tower & Guy Wire Modifications / Details

SHEET:
S-3

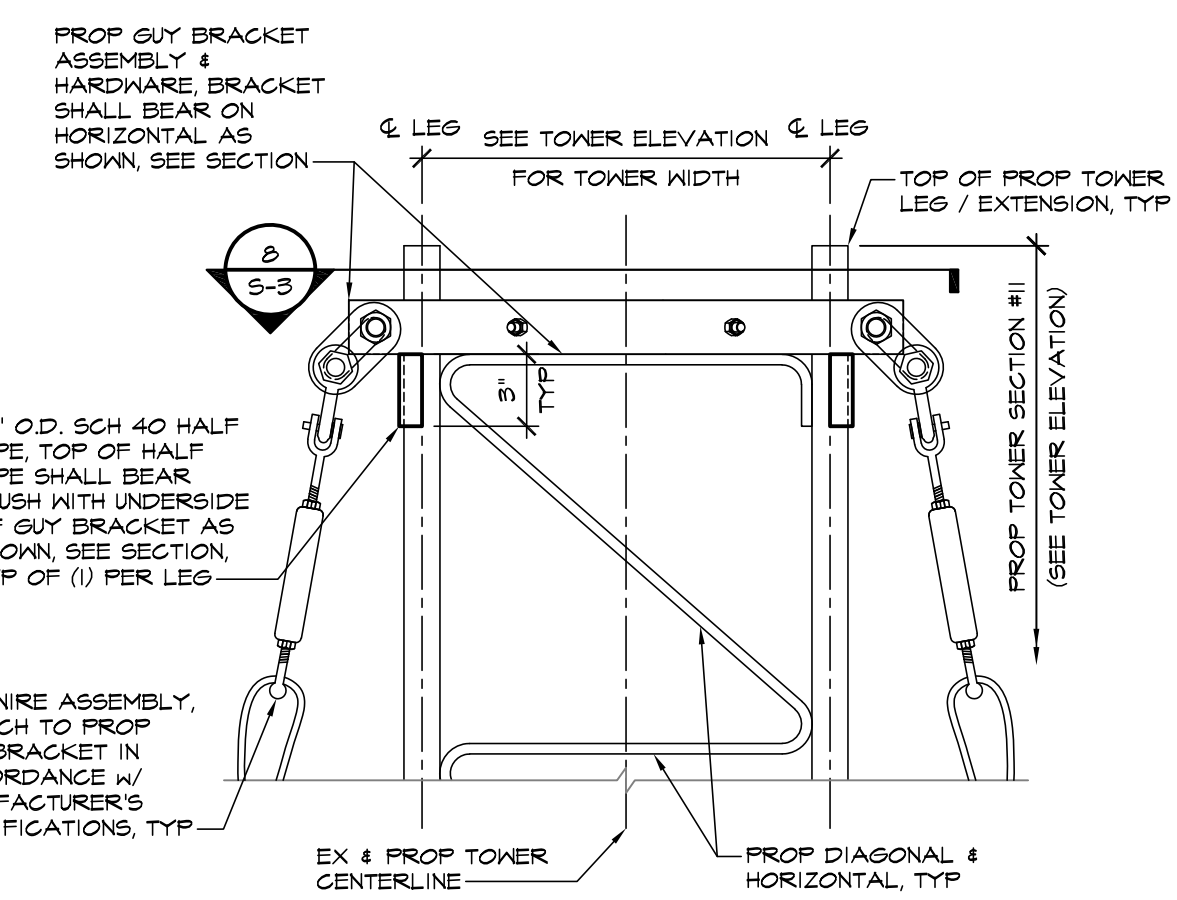
NOTES:
 1. ALL MATERIALS PER SEC. INDUSTRIES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 2. CONTRACTOR SHALL SUBMIT CUT SHEETS TO BUILDING OWNER'S ENGINEER FOR REVIEW.



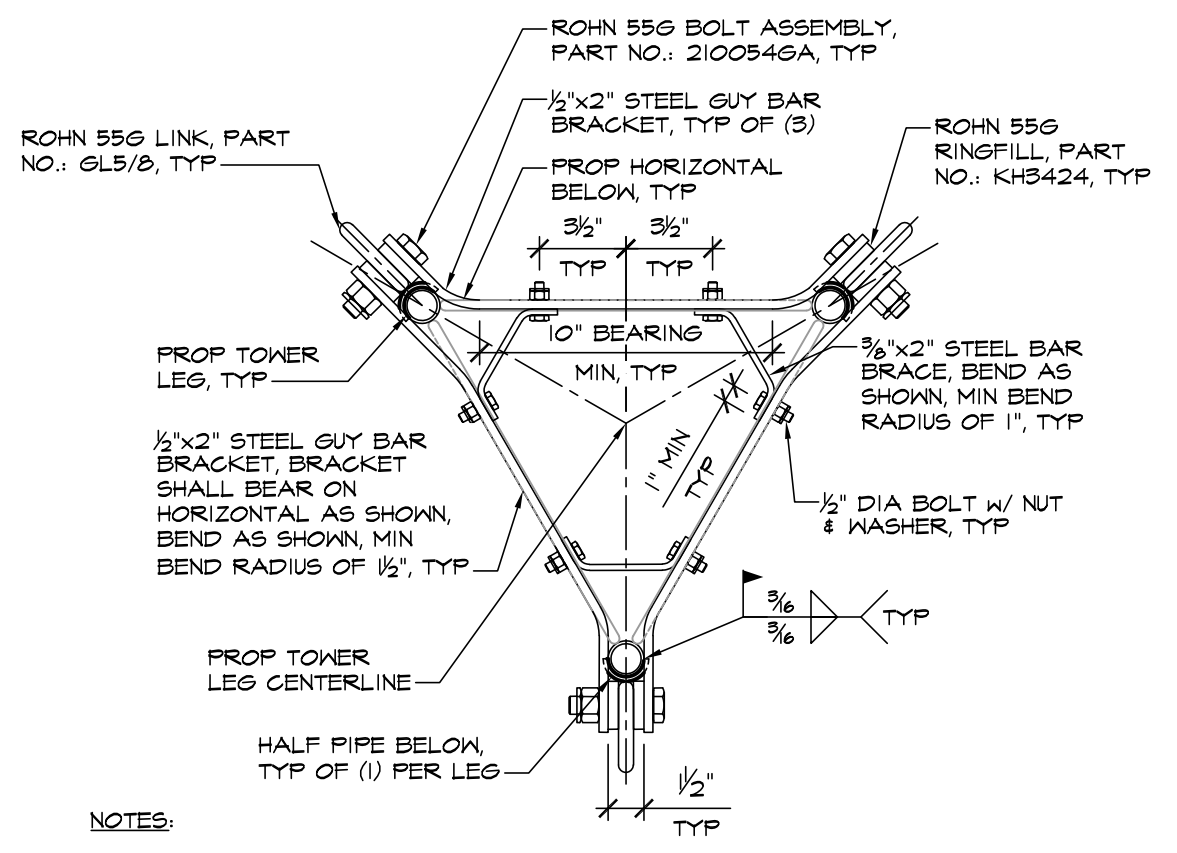
TYP POST FLASHING DETAIL
 SCALE: NOT TO SCALE



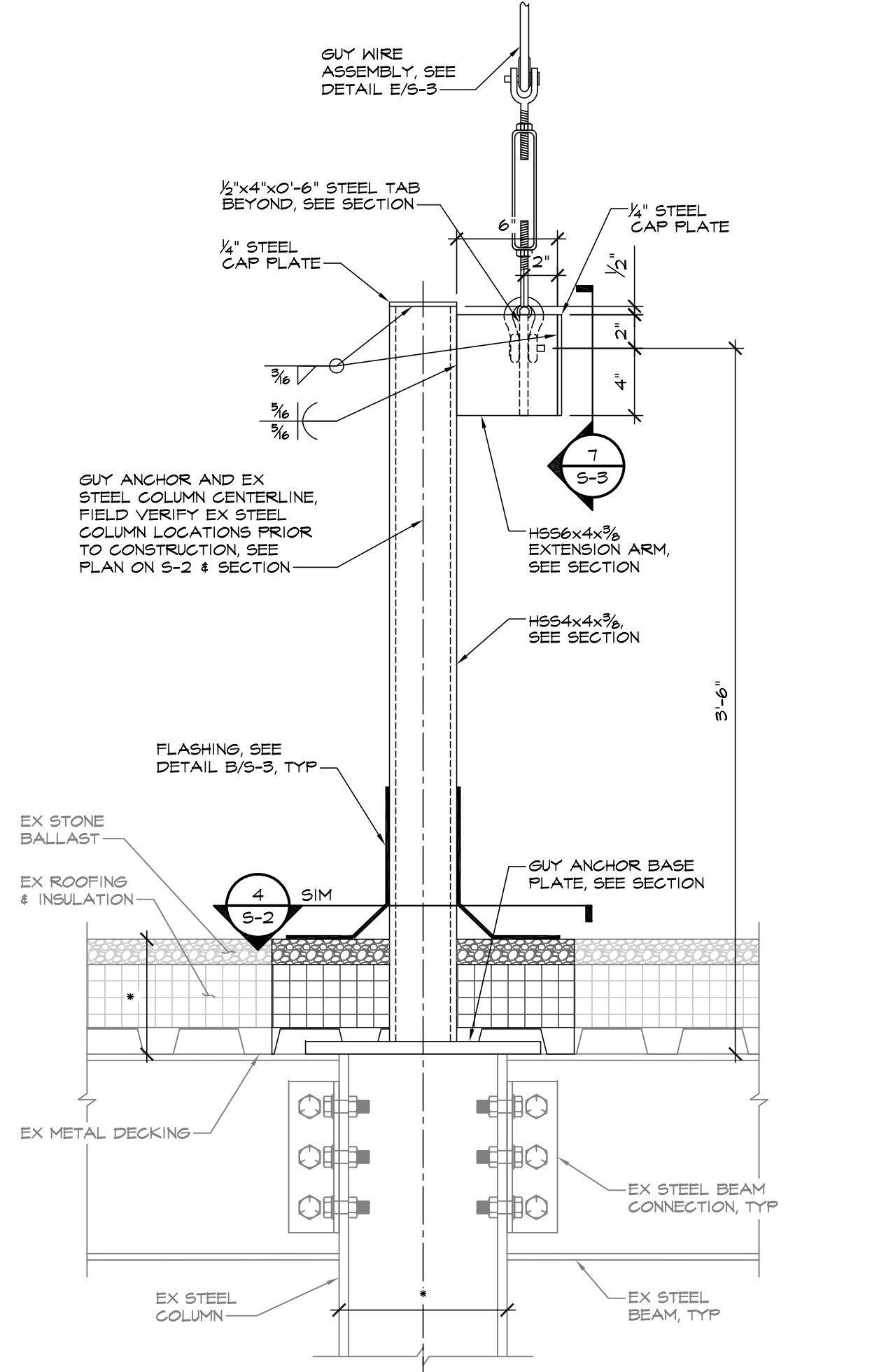
GUY WIRE ANCHOR 'C' ATTACHMENT
 SCALE: 3" = 1'-0"



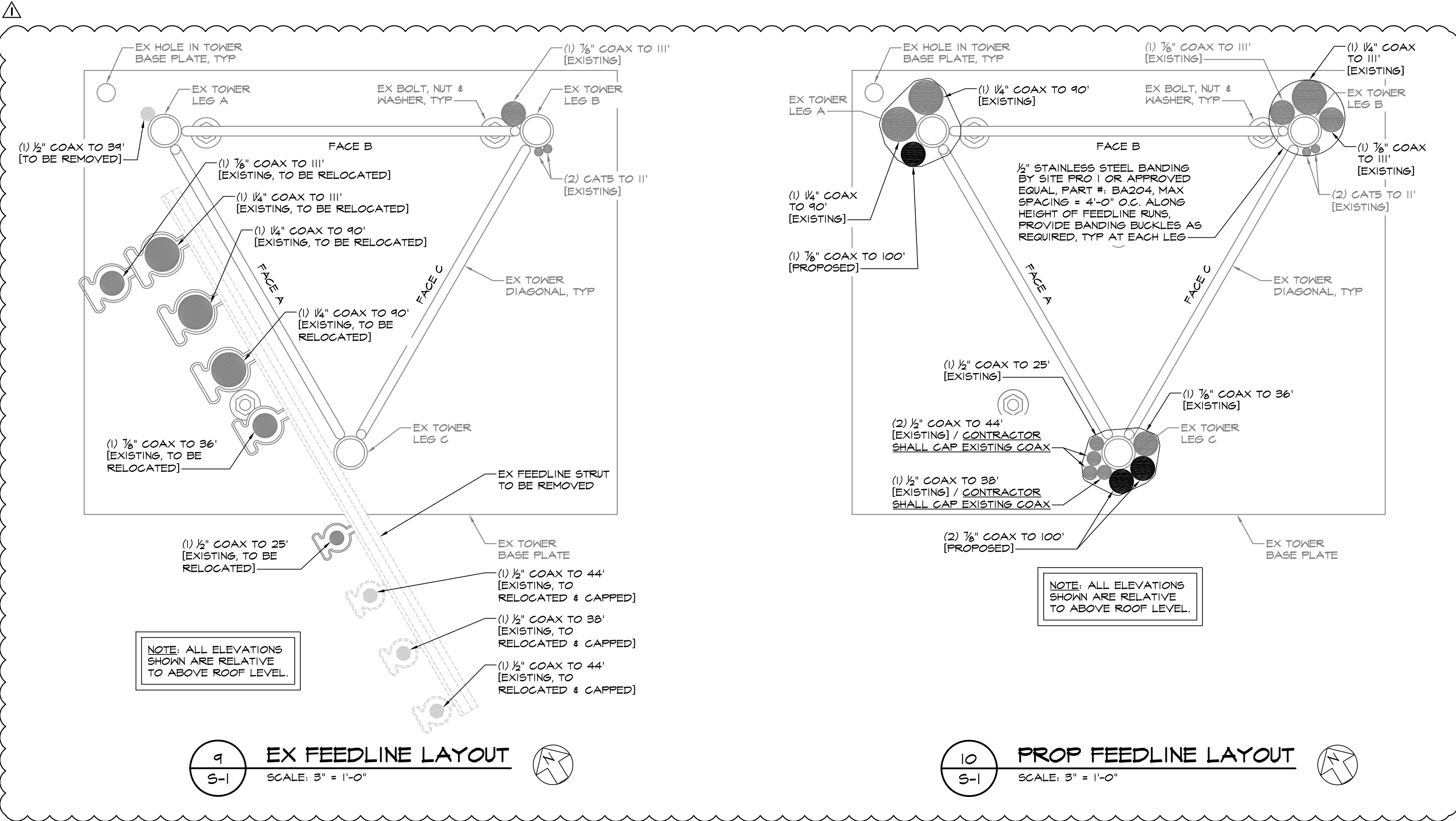
PROP GUY WIRE BRACKET
 SCALE: 1-1/2" = 1'-0"



PROP GUY WIRE BRACKET
 SCALE: 1-1/2" = 1'-0"



TYP TOWER SPLICE CONNECTION
 SCALE: 1-1/2" = 1'-0"

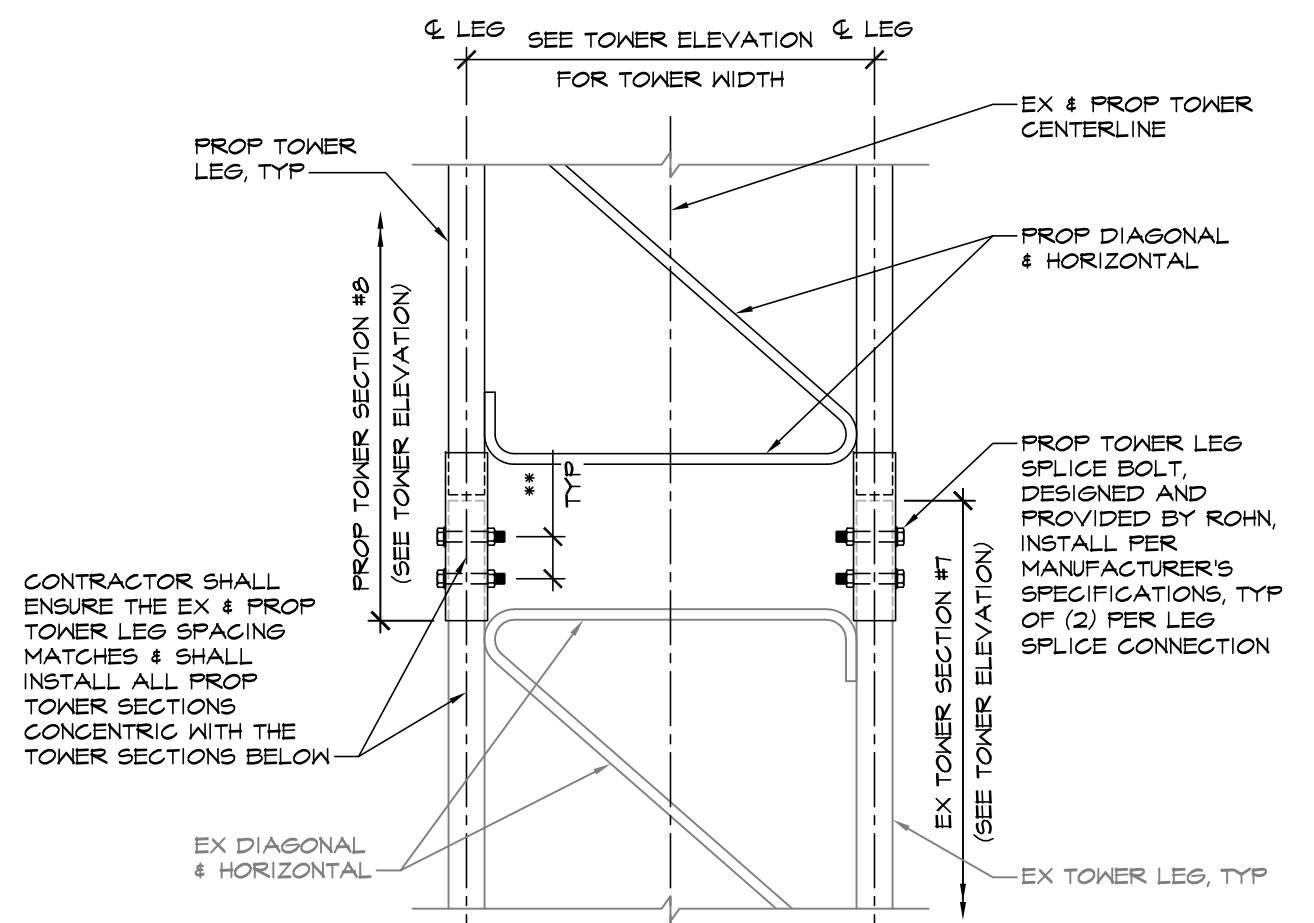


EX FEEDLINE LAYOUT
 SCALE: 3" = 1'-0"

PROP FEEDLINE LAYOUT
 SCALE: 3" = 1'-0"

NOTE:
 1. * - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS SHOWN ABOVE FOR THE EXISTING STEEL BEAMS AND COLUMN SUPPORTING THE NEW GUY ANCHOR 'C'. PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE THIS INFORMATION TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE START OF CONSTRUCTION AND BEFORE ORDERING ANY NEW PARTS / HARDWARE.

GUY ANCHOR 'C'
 SCALE: 1-1/2" = 1'-0"



CONTRACTOR SHALL ENSURE THE EX & PROP TOWER LEG SPACING MATCHES & SHALL INSTALL ALL PROP TOWER SECTIONS CONCENTRIC WITH THE TOWER SECTIONS BELOW.

NOTES:
 1. ** - CONTRACTOR SHALL FIELD VERIFY THAT THE EXISTING SPLICE BOLT HOLES AT THE TOP OF EX TOWER SECTION #7 MATCH THE SPACING OF THE PROPOSED SPLICE BOLT HOLES FOR THE PROPOSED TOWER SECTION #8. THE CONTRACTOR IS EXPECTED TO PERFORM A SITE VISIT BEFORE ORDERING ANY MATERIAL.
 2. EX AFFURTENANCES ARE NOT SHOWN FOR CLARITY. SEE STRUCTURAL NOTES.

TABLE A: INITIAL GUY TENSIONS AT VARIOUS TEMPERATURES

GUY LEVEL	GUY ELEVATION	GUY SIZE	GUY DESIGNATION	DELTA T/F	INITIAL GUY TENSION (LBS) / TIME FOR 3 OSCILLATIONS IN SECONDS											COMMENTS									
					TEMPERATURE (STEEL) IN DEGREES FAHRENHEIT																				
					20	30	40	50	60	70	80	90	100	110											
1	110' (ABT)	1/2" DIA EHS (7-WIRE STRAND)	A	1.32	2750	1.63	2750	1.63	2720	1.64	2710	1.64	2690	1.65	2680	1.65	2670	1.65	2660	1.65	2640	1.66	2630	1.66	PROPOSED
			B	2.55	2800	1.66	2710	1.61	2750	1.68	2720	1.64	2690	1.65	2680	1.65	2670	1.11	2620	1.12	2590	1.13	2570	1.13	PROPOSED
			C	1.78	740	1.01	720	1.03	700	1.04	690	1.05	665	1.07	650	1.08	640	1.09	620	1.11	600	1.13	580	1.14	RE-TENSION
2	60' (ABT)	1/4" DIA EHS (7-WIRE STRAND)	A	1.94	780	1.01	750	1.03	710	1.04	690	1.05	665	1.07	650	1.09	630	1.11	610	1.12	590	1.14	570	1.16	RE-TENSION
			B	3.42	810	0.69	770	0.71	740	0.72	700	0.74	665	0.76	640	0.77	600	0.80	570	0.82	550	0.85	500	0.88	RE-TENSION
			C	3.75	820	0.71	780	0.72	750	0.74	710	0.76	665	0.78	650	0.81	610	0.83	560	0.85	520	0.84	480	0.82	RE-TENSION
3	30' (ABT)	1/4" DIA EHS (7-WIRE STRAND)	A	3.42	810	0.69	770	0.71	740	0.72	700	0.74	665	0.76	640	0.77	600	0.80	570	0.82	550	0.85	500	0.88	RE-TENSION
			B	3.42	810	0.69	770	0.71	740	0.72	700	0.74	665	0.76	640	0.77	600	0.80	570	0.82	550	0.85	500	0.88	RE-TENSION
			C	3.75	820	0.71	780	0.72	750	0.74	710	0.76	665	0.78	650	0.81	610	0.83	560	0.85	520	0.84	480	0.82	RE-TENSION

TABLE B: GUY HARDWARE DATA

GUY LEVEL	GUY ELEVATION	GUY SIZE	GUY DESIGNATION	GUY LENGTH (FT. EA)	INITIAL TENSION	TURNBUCKLE	DEAD-END SLEEVE	DEAD-END GRIP	THIMBLE	SHACKLE
3	110' (ABT)	1/2" DIA EHS (7-WIRE STRAND)	A	112	REFER TO TABLE A	7/8" J & E	1/2"	1/2"	3/4"	3/4"
			B	112	REFER TO TABLE A	7/8" J & E	1/2"	1/2"	3/4"	3/4"
			C	116	REFER TO TABLE A	7/8" J & E	1/2"	1/2"	3/4"	3/4"

TABLE A NOTES:
 1. ALL GUY WIRES SHALL BE TENSIONED TO VALUES PROVIDED IN TABLE.
 2. INITIAL TENSIONS SHALL BE READ IN CALM WEATHER, WITH WIND GUSTS LESS THAN 10 MPH.
 3. INITIAL TENSIONS MAY BE INTERPOLATED BETWEEN TEMPERATURES.

TABLE B NOTES:
 1. CONTRACTOR TO PROVIDE NEW THIMBLES, TURNBUCKLES, SAFETY SLEEVES, PREFORMED DEAD-END GRIPS, COTTER PINS, AND ANY OTHER HARDWARE AT THE GUY ANCHORS. PRIOR TO FABRICATION, CONTRACTOR SHALL VERIFY ALL LENGTHS & QUANTITIES GIVEN WITHIN TABLE. LENGTHS AND QUANTITIES ARE FOR QUOTING PURPOSES ONLY AND SHALL NOT BE USED FOR FABRICATION.
 2. GUY WIRE LENGTH IS STRAIGHT CHORD LENGTH (ACTUAL LENGTH WILL BE LONGER DUE TO SAG AND VARYING GRADE ELEVATIONS).
 3. CONTRACTOR SHALL PAINT GUY CUT ENDS WITH ZINC RICH PAINT.

GUY WIRE TENSIONS & HARDWARE
 SCALE: NOT TO SCALE

STRUCTURAL NOTES

CODES

- A. ANSI/TIA-222-H-2017 (2ND PRINTING) 'STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES, ANTENNAS AND SMALL WIND TURBINE SUPPORT STRUCTURES'
- B. 2018 INTERNATIONAL BUILDING CODE (2018 IBC)
- C. IN ADDITION, ALL CONSTRUCTION SHALL CONFORM WITH THE GOVERNING LOCAL BUILDING CODE

DESIGN LOADS

- A. THE NEW TOWER EXTENSION, NEW GUY ANCHORS / WIRES, AND TOWER BASE MODIFICATIONS HAVE BEEN DESIGNED BASED ON THE TOWER AND BUILDING ANALYSIS REPORT BY MRA, MRA JOB NUMBER: 21018.001, REVISION 2, DATED APRIL 24, 2021.
- B. WIND LOAD DESIGN DATA

ULTIMATE WIND SPEED (NO ICE):	V _{ult} = 119 MPH
BASIC WIND SPEED (WITH ICE):	V _i = 40 MPH
DESIGN RADIAL ICE THICKNESS:	1" (ICE THICKNESS INCREASES WITH HEIGHT)
RISK CATEGORY:	III
EXPOSURE CATEGORY:	B
TOPOGRAPHIC CATEGORY:	I
- C. SEISMIC DESIGN DATA

SHORT PERIOD ACCELERATION, S _s :	0.122 g
ONE SECOND PERIOD ACCELERATION, S ₁ :	0.042 g
SITE CLASS:	D (BY DEFAULT)
DAMPED SHORT PERIOD ACCELERATION, S _{ds} :	0.150 g
RESPONSE MODIFICATION FACTOR, R:	3.0 (TOWER)
SEISMIC RESPONSE COEFFICIENT, C _s :	0.163 g

EXISTING STRUCTURE

- A. ALL EXISTING PLANS, DETAILS, DIMENSIONS, AND ELEVATIONS INDICATE EXISTING CONDITIONS AS KNOWN. THE EXISTING INFORMATION SHOWN IS NOT INTENDED TO BE "AS BUILT" AND THE ACTUAL CONSTRUCTION MAY DIFFER FROM THAT SHOWN. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING DIMENSIONS AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION. MINOR VARIATIONS CAN BE EXPECTED AND ANY REQUIRED DEVIATION FROM THE CONTRACT DOCUMENTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- B. CONTRACTOR TO PROVIDE TEMPORARY SUPPORT FOR ALL EXISTING ANTENNAS, TRANSMISSION LINES, OR OTHER APPURTENANCES, AS NEEDED, DURING CONSTRUCTION.
- C. CONTRACTOR SHALL PROTECT ALL EXISTING APPURTENANCES FROM DAMAGE DURING CONSTRUCTION.
- D. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND CONDITION OF ALL EXISTING TOWER ELEMENTS. SHOULD THE SIZE OR CONDITION OF THE EXISTING ELEMENTS DIFFER FROM THAT SHOWN ON THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- E. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO ANY STRUCTURAL ELEMENTS WHICH ARE TO REMAIN AND THAT HAVE BEEN DAMAGED TO THE COMPLETE SATISFACTION OF THE OWNER. THE REPAIRS SHALL BE AT NO EXPENSE TO THE OWNER. ALL REPAIR WORK SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE THAT THE PROJECT IS LOCATED AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO COMMENCING REPAIR WORK.
- F. DO NOT PERMIT PORTIONS OF THE STRUCTURE TO FALL NOR DEBRIS TO DROP EXCEPT BY METHODS WHICH WILL INSURE INTEGRITY OF THE STRUCTURE.
- G. THE CONTRACTOR SHALL MONITOR THE EXISTING STRUCTURE DURING CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF AREAS EXHIBITING DISTRESS OR FAILURE.

MISCELLANEOUS

- A. ALL WORK SHALL BE PERFORMED IN CALM WEATHER, WITH WIND GUSTS LESS THAN 20 MPH.
- B. NO ANTENNAS, CABLES, OR OTHER APPURTENANCES SHALL BE ADDED TO THE TOWER UNTIL THE NEW TOWER EXTENSION, NEW GUY ANCHORS / WIRES AND TOWER BASE MODIFICATION WORK IS COMPLETE.
- C. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED FOR REVIEW BY THE ENGINEER. IF THE SHOP DRAWINGS ARE NOT SUBMITTED FOR REVIEW, THE ENGINEER WILL NOT BE RESPONSIBLE FOR STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT. THE SHOP DRAWINGS SHALL INDICATE ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION AND MAKE ALL CORRECTIONS DEEMED NECESSARY.
- D. THE CONTRACTOR SHALL NOT SUBMIT REPRODUCTIONS OF THE STRUCTURAL CONTRACT DOCUMENTS AS SHOP DRAWINGS.
- E. SCALES SHOWN ON THE STRUCTURAL CONTRACT DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DIMENSIONAL INFORMATION SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
- F. APPLY DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL, DETAIL TITLE OR NOTE.
- G. THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME THE LOAD IS APPLIED.

STRUCTURAL AND MISCELLANEOUS STEEL

- A. ALL STEEL CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (ANSI/AISC 360) AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
- B. ALL HSS ROUND SHAPES SHALL CONFORM TO ASTM A500, GRADE B (F_y = 42 KSI).
- C. ALL HSS SQUARE AND RECTANGULAR SHAPES SHALL CONFORM TO ASTM A500, GRADE B (F_y = 46 KSI).
- D. ALL STEEL PLATES AND ANGLES SHALL CONFORM TO ASTM A36 (F_y = 36 KSI).
- E. ALL BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325 (F_u = 120 KSI).
- F. ALL NUTS SHALL CONFORM TO ASTM A563. ALL WASHERS SHALL CONFORM TO ASTM F436.
- G. ALL WELDED CONNECTIONS SHALL USE E70XX ELECTRODES.
- H. ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY CERTIFIED WELDERS AND CONFORM TO THE AMERICAN WELDING SOCIETY CODE FOR BUILDINGS AWS D11. WELDS SHALL DEVELOP THE FULL STRENGTH OF MATERIALS BEING WELDED UNLESS OTHERWISE INDICATED.
- I. THE CONTRACTOR SHALL NOT SPLICE OR CUT OPENINGS IN STEEL MEMBERS NOT SHOWN ON CONTRACT DRAWINGS WITHOUT THE PERMISSION OF THE STRUCTURAL ENGINEER.
- J. ALL STEEL MEMBERS, FABRICATIONS AND ASSEMBLIES SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER FABRICATION. ALL BOLTS, U-BOLTS, WASHERS, NUTS, & PALNUTS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM F2324.
- K. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
- L. AN INDEPENDENT INSPECTION AGENCY SHALL INSPECT ALL STRUCTURAL STEEL AND VERIFY THAT IT CONFORMS TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. FIELD INSPECTION REPORTS SHALL BE SUBMITTED TO THE ENGINEER WITHIN 5 DAYS OF THE INSPECTION. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY OF ALL PHASES OF STEEL CONSTRUCTION AND WELDING.

RIGGING REVIEW

- A. CONTRACTOR SHALL PROVIDE A RIGGING PLAN IN ACCORDANCE WITH THE TIA-322 STANDARD FOR "LOADING, ANALYSIS, AND DESIGN CRITERIA RELATED TO THE INSTALLATION, ALTERATION, AND MAINTENANCE OF COMMUNICATION STRUCTURES" WITH A QUALIFIED ENGINEER AND QUALIFIED PERSON.
- B. THE RIGGING PLAN SHALL BE COMPLETED BY A PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION IN WHICH THE PROJECT IS LOCATED.
- C. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION AND REMOVAL OF TEMPORARY BRACING AND CONSTRUCTION SUPPORTS FOR THE EXISTING STRUCTURE, AS REQUIRED TO COMPLETE THE PROJECT. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR THE METHOD OF CONSTRUCTION AND SHALL PROVIDE ALL TEMPORARY BRACING AND SHORING REQUIRED TO MAINTAIN THE STABILITY OF THE STRUCTURE AND TO SUPPORT CONSTRUCTION LOADS DURING CONSTRUCTION.

POST-MODIFICATION INSPECTION

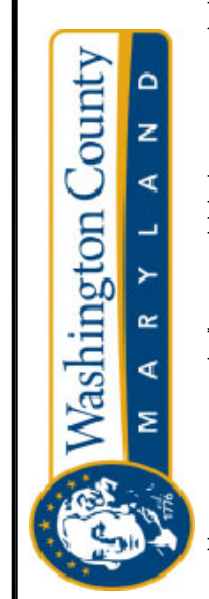
- A. A POST-MODIFICATION INSPECTION REPORT IS REQUIRED AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID. A POST-MODIFICATION INSPECTION IS A VISUAL INSPECTION OF THE NEW TOWER EXTENSION, NEW GUY ANCHORS / WIRES, AND TOWER BASE MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS.
- B. THE POST-MODIFICATION INSPECTION REPORT SHALL BE COMPLETED BY A PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION IN WHICH THE PROJECT IS LOCATED.
- C. THE INTENT OF THE POST-MODIFICATION INSPECTION REPORT IS TO CONFIRM INSTALLATION AND CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF.
- D. TO ENSURE THAT THE REQUIREMENTS OF THE POST-MODIFICATION INSPECTION REPORT ARE MET, IT IS VITAL THAT THE CONTRACTOR AND POST-MODIFICATION INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED.



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DESIGNED BY: JSN
 PROJECT NO: 21018.001
 DATE: 12/22/20
 SCALE: AS NOTED

TITLE:
Structural Notes

SHEET:
S-4

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