

**PROJECT INFORMATION**

SCOPE OF WORK: CONSTRUCTION OF UNMANNED TELECOMMUNICATIONS FACILITY

OWNER: VELCO (VERMONT TRANSCO LLC)  
366 PINNACLE RIDGE ROAD  
RUTLAND, VT 05701

SITE ADDRESS: 19 EAGLE CAMP ROAD  
SOUTH HERO, VT 05486

LATITUDE: 44° 39' 59.46" N

LONGITUDE: 73° 20' 19.97" W

TYPE OF SITE: MONOPOLE/ EQUIPMENT SHELTER

TOWER HEIGHT: 110'-0"±

RAD CENTER: 100'-0"±

JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY



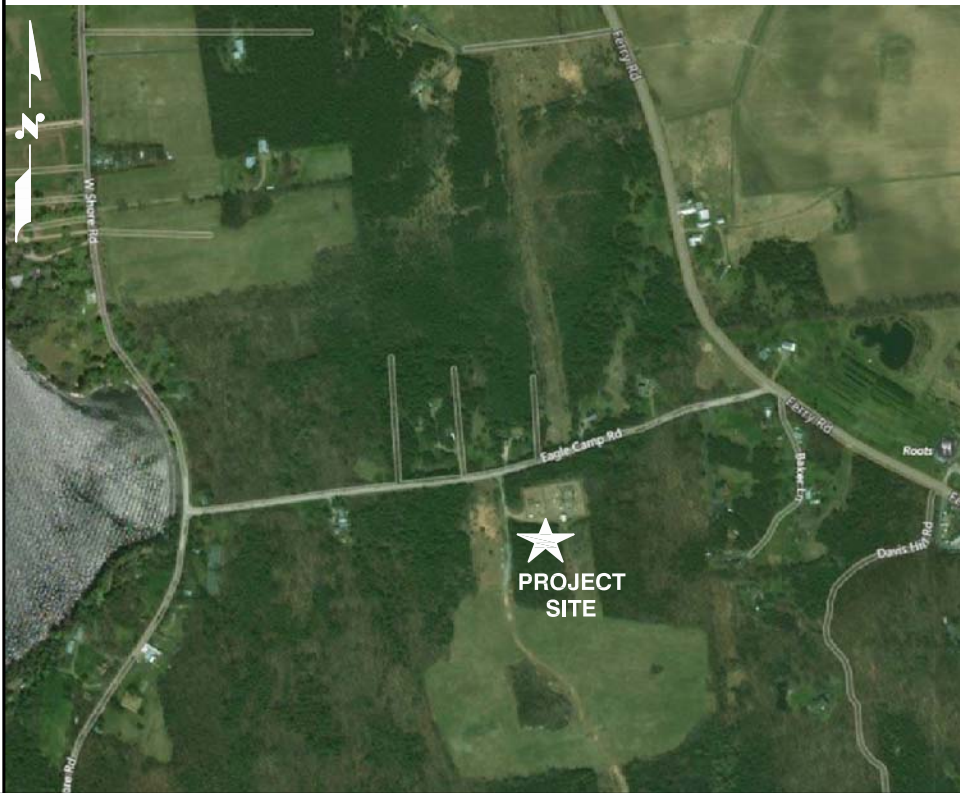
**SITE NUMBER: 56**  
**SITE NAME: SOUTH HERO**

**DRAWING INDEX**

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**VICINITY MAP**

DIRECTIONS TO SITE:  
DEPART PINNACLE RIDGE RD TOWARD US-7. 0.1 MI. TURN LEFT ONTO US-7. 28.3 MI. TURN LEFT ONTO US-7 W / VT-125 W. 322 FT. TURN RIGHT ONTO US-7 / VT-125 / N PLEASANT ST. 28.3 MI. KEEP RIGHT ONTO US-7 N / ETHAN ALLEN HWY / SHELBURNE RD. 3.9 MI. TAKE RAMP RIGHT FOR I-189 TOWARD AIRPORT. 1.5 MI. TAKE RAMP LEFT FOR I-89 NORTH TOWARD ST. ALBANS / WINOOSKI. 10.6 MI. AT EXIT 17, TAKE RAMP RIGHT FOR US-2 TOWARD LAKE CHAMPLAIN ISLANDS / MILTON. 0.3 MI. TURN RIGHT ONTO US-2 / THEODORE ROOSEVELT HWY. 10.4 MI. TURN LEFT ONTO VT-314 / FERRY RD. 0.7 MI. BEAR LEFT ONTO EAGLE CAMP RD. UNPAVED ROAD. 0.2 MI. ARRIVE AT SITE ON THE LEFT.



**GENERAL NOTES**

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF VELCO. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE VELCO REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
4. CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

**CALL 811**



**WWW.DIGSAFE.COM**

**72 HOURS PRIOR  
UNDERGROUND SERVICE ALERT**

45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01845  
TEL: (978) 557-5553  
FAX: (978) 336-5586



366 PINNACLE RIDGE ROAD  
RUTLAND, VT 05701

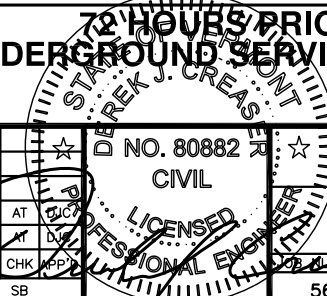
**SITE NUMBER: 56**  
**SITE NAME: SOUTH HERO**

19 EAGLE CAMP ROAD  
SOUTH HERO, VT 05486  
GRAND ISLE COUNTY



AIROSMITH DEVELOPMENT  
125 HIGH ROCK AVENUE  
SARATOGA SPRINGS, NY 12866

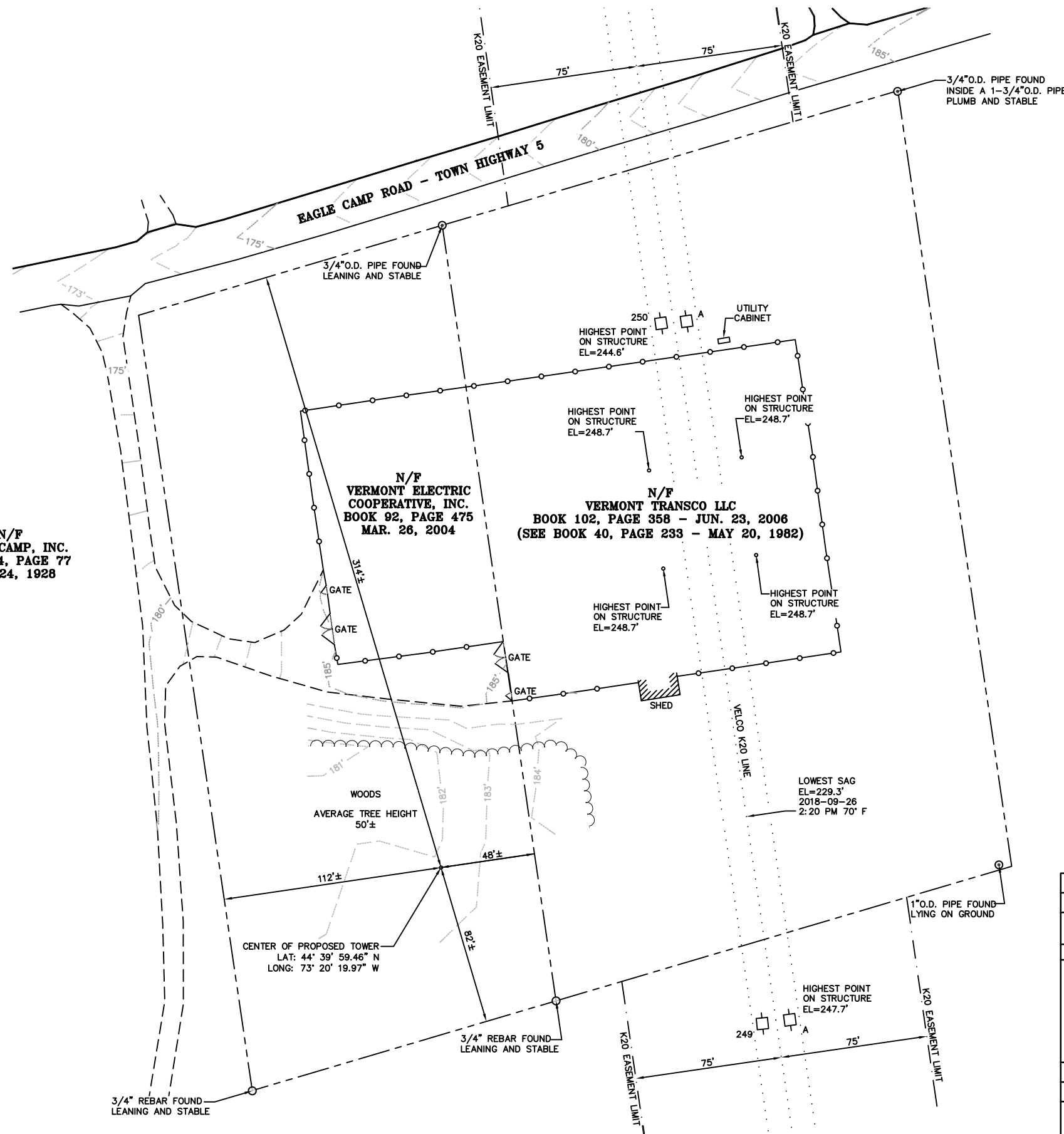
NO.		DATE		REVISIONS		SB	AT	CHK	APP	JOB NUMBER		DRAWING NUMBER		REV
1	02/12/19	ISSUED FOR CONSTRUCTION		SB	AT	CHK	APP			56	T-1		1	
A	08/29/18	ISSUED FOR REVIEW		SB	AT	CHK	APP							
SCALE: AS SHOWN		DESIGNED BY: AT		DRAWN BY: SB										



VELCO

TITLE SHEET

N/F  
EAGLE CAMP, INC.  
BOOK 14, PAGE 77  
SEP. 24, 1928



REV	DATE	DR	CK	DESCRIPTION
				VERMONT TRANSCO LLC 366 PINNACLE RIDGE ROAD RUTLAND, VERMONT 05701
<b>SKETCH PREPARED FOR</b> <b>VERMONT TRANSCO LLC</b> <b>EAGLE CAMP ROAD</b> <b>GRAND ISLE COUNTY</b> <b>SOUTH HERO, VERMONT</b>				
SCALE: 1" = 60'		PLAN COMPILATION DATE: 10-18-2018		
VSE PROJECT #: 18044		DRAWN BY: VSE	SHEET 1 OF 1	
<b>Vermont Survey and Engineering, Inc.</b> <b>79 River Street, Montpelier, Vermont</b> <b>(802) 229-9138 ~ info@vermontsurvey.com</b>				

NAD 83(2011)  
 BASIS OF BEARINGS & COORDINATES  
 Datums: Horizontal - NAD 83(2011) SPC (4400 VT) sFT  
 Vertical - NAVD 88(GEoid09)

**GROUNDING NOTES**

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

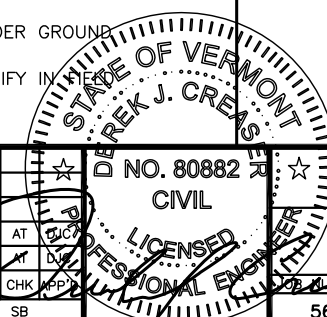
**GENERAL NOTES**

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
 CONTRACTOR – AIROSMITH  
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)  
 OWNER – VELCO
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
20. APPLICABLE BUILDING CODES:  
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.  
 BUILDING CODE: IBC 2015 WITH VT FIRE & SAFETY CODE AMENDMENTS  
 ELECTRICAL CODE: NFPA 70 NATIONAL ELECTRICAL CODE, 2014 EDITION  
 LIGHTNING CODE: REFER TO ELECTRICAL DRAWINGS  
  
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:  
  
 AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;  
  
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)  
 MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;  
  
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G,  
 STRUCTURAL STANDARDS FOR STEEL  
  
 EQUIPMENT AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.  
  
 FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

**ABBREVIATIONS**

AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTCW	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCEIVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD	RADIATION CENTER LINE (ANTENNA)	VIF	VERIFY IN THE FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		



**HUDSON Design Group LLC**  
 45 BEECHWOOD DRIVE  
 NORTH ANDOVER, MA 01845  
 TEL: (978) 557-5553  
 FAX: (978) 336-5586

**VERMONT ELECTRIC VELCO POWER COMPANY, INC.**  
 366 PINNACLE RIDGE ROAD  
 RUTLAND, VT 05701

**SITE NUMBER: 56**  
**SITE NAME: SOUTH HERO**  
  
 19 EAGLE CAMP ROAD  
 SOUTH HERO, VT 05486  
 GRAND ISLE COUNTY

**AIROSMITH DEVELOPMENT**  
 125 HIGH ROCK AVENUE  
 SARATOGA SPRINGS, NY 12866

NO.		DATE		REVISIONS		SCALE: AS SHOWN		DESIGNED BY: AT		DRAWN BY: SB		56		DRAWING NUMBER: GN-1		REV: 1	
1	02/12/19	ISSUED FOR CONSTRUCTION	SB	AT	CHK	APP											
A	08/29/18	ISSUED FOR REVIEW	SB	AT	CHK	APP											

VELCO

GENERAL NOTES

NOTE:  
 SITE PLAN PREPARED BY HUDSON DESIGN GROUP, LLC FROM THE TOWN ASSESSORS DATA AND OTHER SOURCES AND DOES NOT REPRESENT AN ACTUAL FIELD OR BOUNDARY SURVEY.

LEGEND	
-----	PROPERTY LINE
-----	ABUTTING PROPERTY LINE
-----	PROP. UNDERGROUND UTILITIES

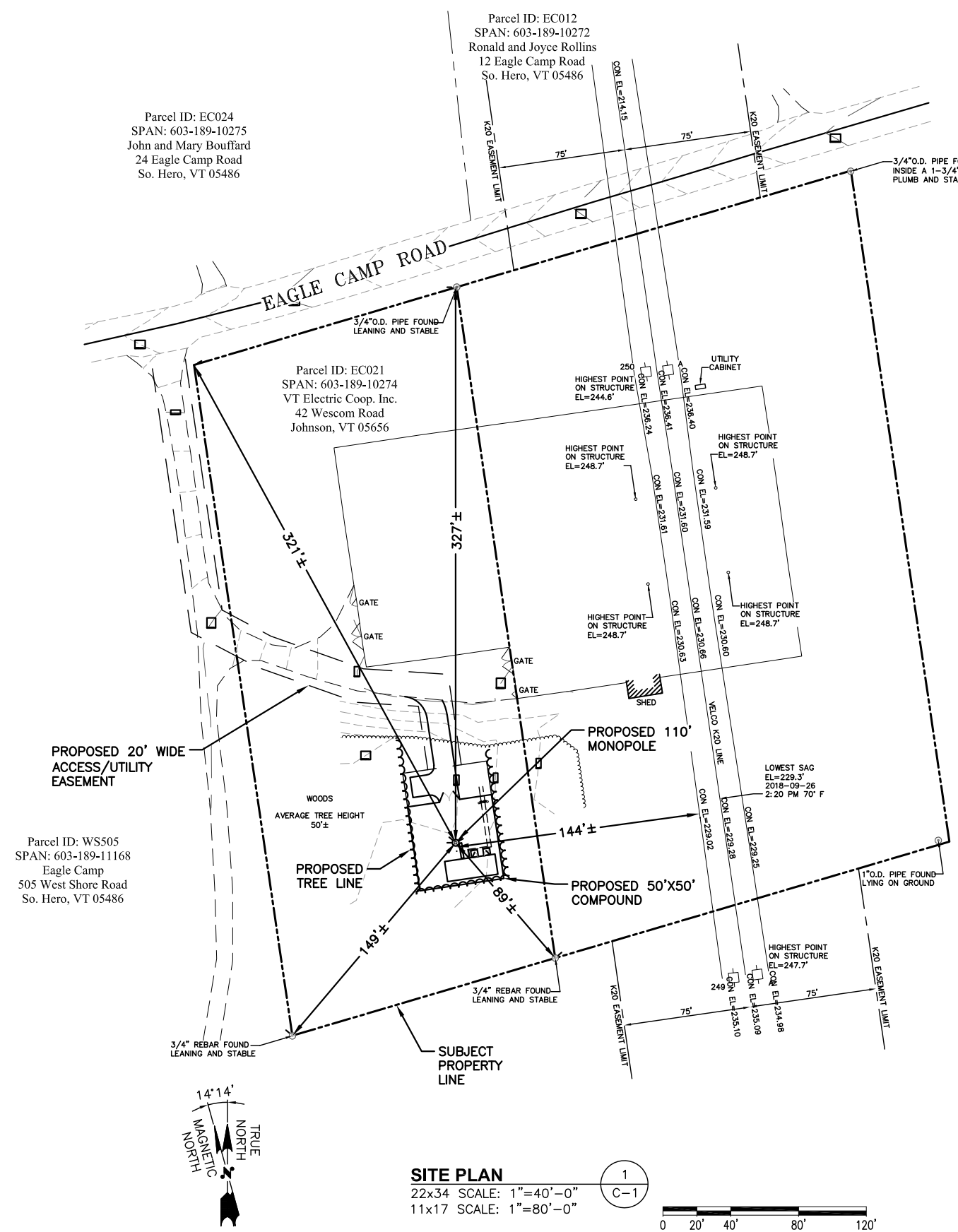
ZONING INFORMATION		
DISTRICT: RURAL RESIDENTIAL		
DIMENSION REQUIREMENTS:	REQUIRED	PROPOSED±
TOWER SETBACKS:		
FRONT YARD SETBACK:	25'	314'±
SIDE YARD SETBACK:	25'	28'± & 112'±
REAR YARD SETBACK:	25'	82'±

**HANDICAP REQUIREMENTS**  
 FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION.  
 HANDICAPPED ACCESS REQUIREMENTS NOT REQUIRED.

- GENERAL NOTES:**
- PROPERTY LINE INFORMATION (WHEN APPLICABLE) WAS PREPARED USING TAX MAPS, AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS A BOUNDARY SURVEY. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
  - (THERE IS NO HANDICAP ACCESS REQUIRED).
  - THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
  - CONNECTION TO ELECTRICAL & TELEPHONE UTILITIES TO BE DETERMINED BY THE APPROPRIATE UTILITY COMPANY.
  - SUBCONTRACTOR TO VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEER PRIOR TO INSTALLATION. SEE ANTENNA CONFIGURATION SHEETS FOR SITE SPECIFIC DETAILS.
  - SUBCONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
  - SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION.
  - THE MAXIMUM AREA OF DISTURBANCE IS APPROXIMATELY 4,700 SQ. FT. WHICH IS LESS THAN 1 ACRE. THE PROJECT IMPACT AREA IS BELOW THE EXEMPTION THRESHOLD OF 43,560 SQUARE FEET IN 40 CFR PARTS 9, 122-124 AND THEREFORE IS NOT SUBJECT TO REGULATION UNDER THE EPA OR STATE-MANAGED GENERAL CONSTRUCTION PERMIT PROGRAM. THE PROJECT OWNER'S GENERAL CONTRACTOR SHALL CONDUCT ALL SITE DEVELOPMENT IN ACCORDANCE WITH THE "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL" ISSUED BY THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION. ADDITIONALLY, THE PROJECT OWNERS GENERAL CONTRACTOR SHALL CONDUCT ALL CONSTRUCTION ACTIVITIES IN A MANNER THAT DOES NOT RESULT IN STORM WATER DISCHARGES WITH AN ADVERSE IMPACT ON ANY STORM WATER COLLECTION/CONVEYANCE SYSTEM, WETLAND, WATER BODY, OR OTHER WATER RESOURCE AREAS.
  - THE PROJECT WILL COMPLY WITH THE "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL", ISSUED BY THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION.

TOTAL AREA OF TREE CLEARING: 4,700± SQ. FT

NOTE:  
 REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.



Parcel ID: WS505  
 SPAN: 603-189-11168  
 Eagle Camp  
 505 West Shore Road  
 So. Hero, VT 05486

Parcel ID: EC024  
 SPAN: 603-189-10275  
 John and Mary Bouffard  
 24 Eagle Camp Road  
 So. Hero, VT 05486

Parcel ID: EC021  
 SPAN: 603-189-10274  
 VT Electric Coop. Inc.  
 42 Wescom Road  
 Johnson, VT 05656

Parcel ID: EC012  
 SPAN: 603-189-10272  
 Ronald and Joyce Rollins  
 12 Eagle Camp Road  
 So. Hero, VT 05486



**SITE PLAN**  
 22x34 SCALE: 1"=40'-0"  
 11x17 SCALE: 1"=80'-0"



**HUDSON Design Group LLC**  
 45 BEECHWOOD DRIVE  
 NORTH ANDOVER, MA 01845  
 TEL: (978) 557-5553  
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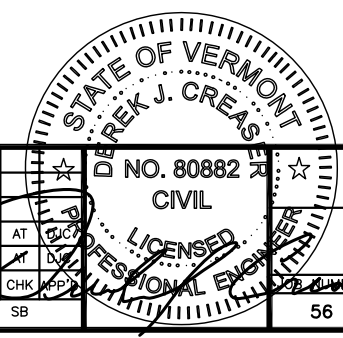
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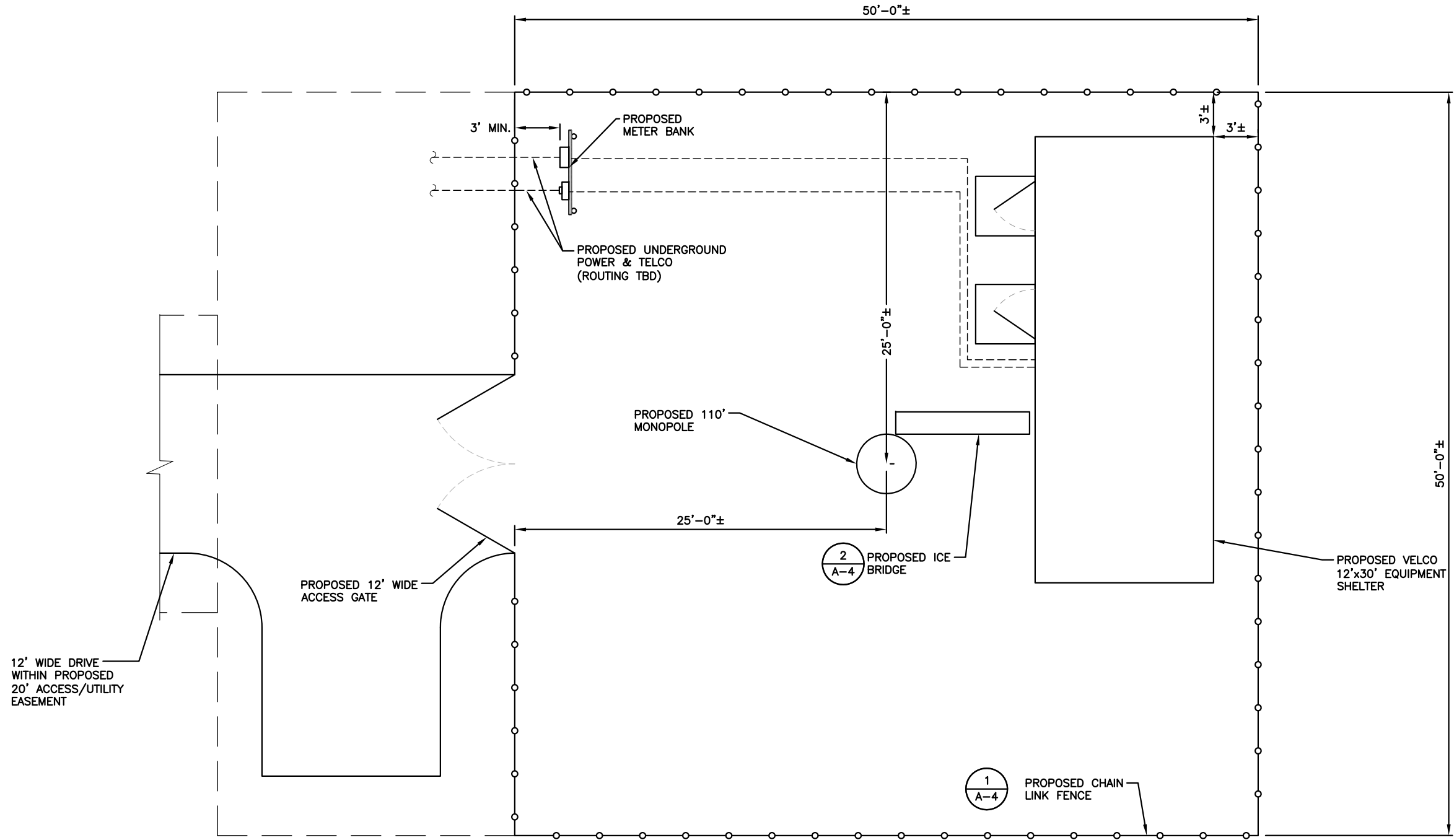
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SCALE: AS SHOWN    DESIGNED BY: AT    DRAWN BY: SB



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SITE PLAN	
DRAWING NUMBER	REV
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1	1

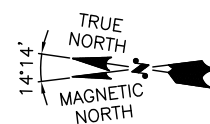


PROPOSED POWER/FIBER ROUTING  
TBD PRIOR TO CONSTRUCTION

TOTAL IMPERVIOUS AREA BEING  
PROPOSED: 3,500± SQ. FT

TOTAL AREA OF DISTURBANCE:  
4,500± SQ. FT

NO DIRECT/INDIRECT ALTERATION  
OF WETLANDS PROPOSED



**COMPOUND PLAN**  
22x34 SCALE: 1/4"=1'-0"  
11x17 SCALE: 1/8"=1'-0"



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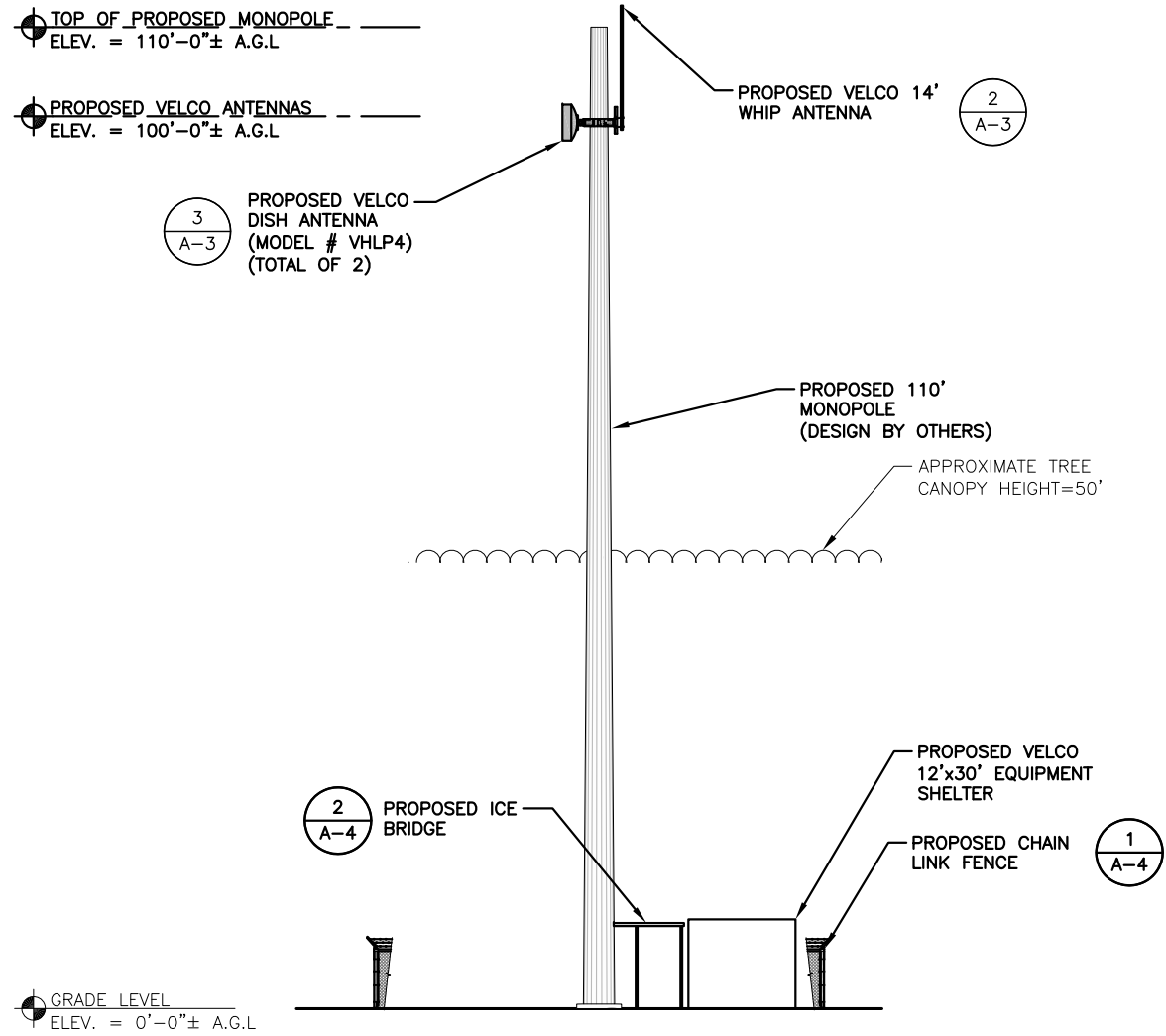
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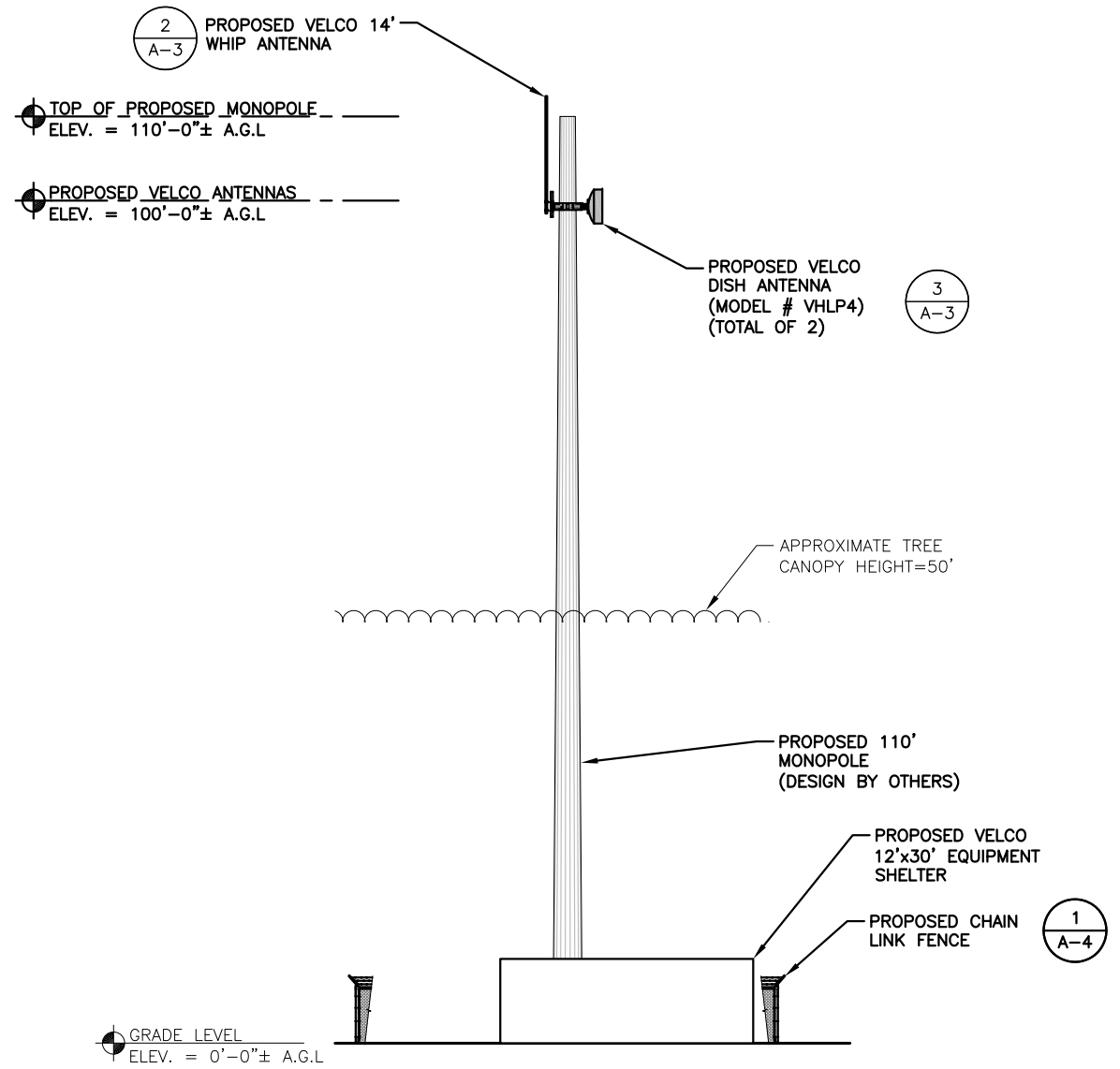
AIROSMITH DEVELOPMENT  
125 HIGH ROCK AVENUE  
SARATOGA SPRINGS, NY 12866

		STATE OF VERMONT BREK J. CREAS D NO. 80882 CIVIL LICENSED PROFESSIONAL ENGINEER		VELCO COMPOUND PLAN	
1	02/12/19	ISSUED FOR CONSTRUCTION	SB	AT	CHK
A	08/29/18	ISSUED FOR REVIEW	SB	AT	CHK
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: SB		
		56	A-1		1



**WEST ELEVATION**  
 22x34 SCALE: 1/8"=1'-0"  
 11x17 SCALE: 1/16"=1'-0"

1  
A-2



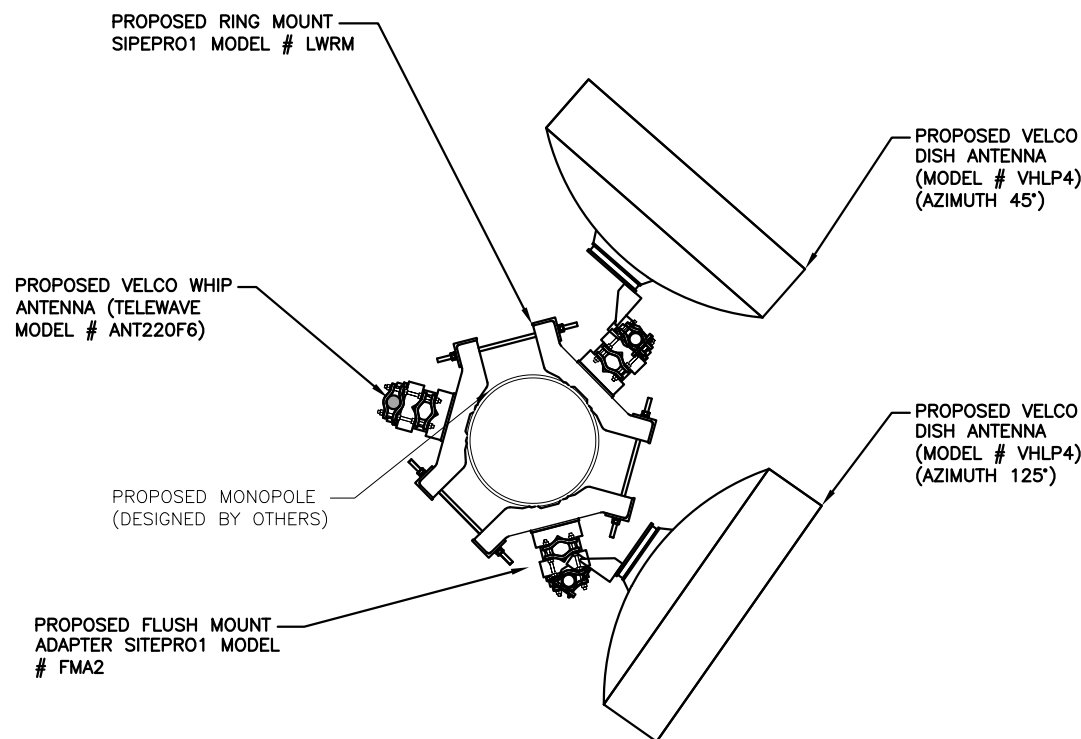
**SOUTH ELEVATION**  
 22x34 SCALE: 1/8"=1'-0"  
 11x17 SCALE: 1/16"=1'-0"

2  
A-2

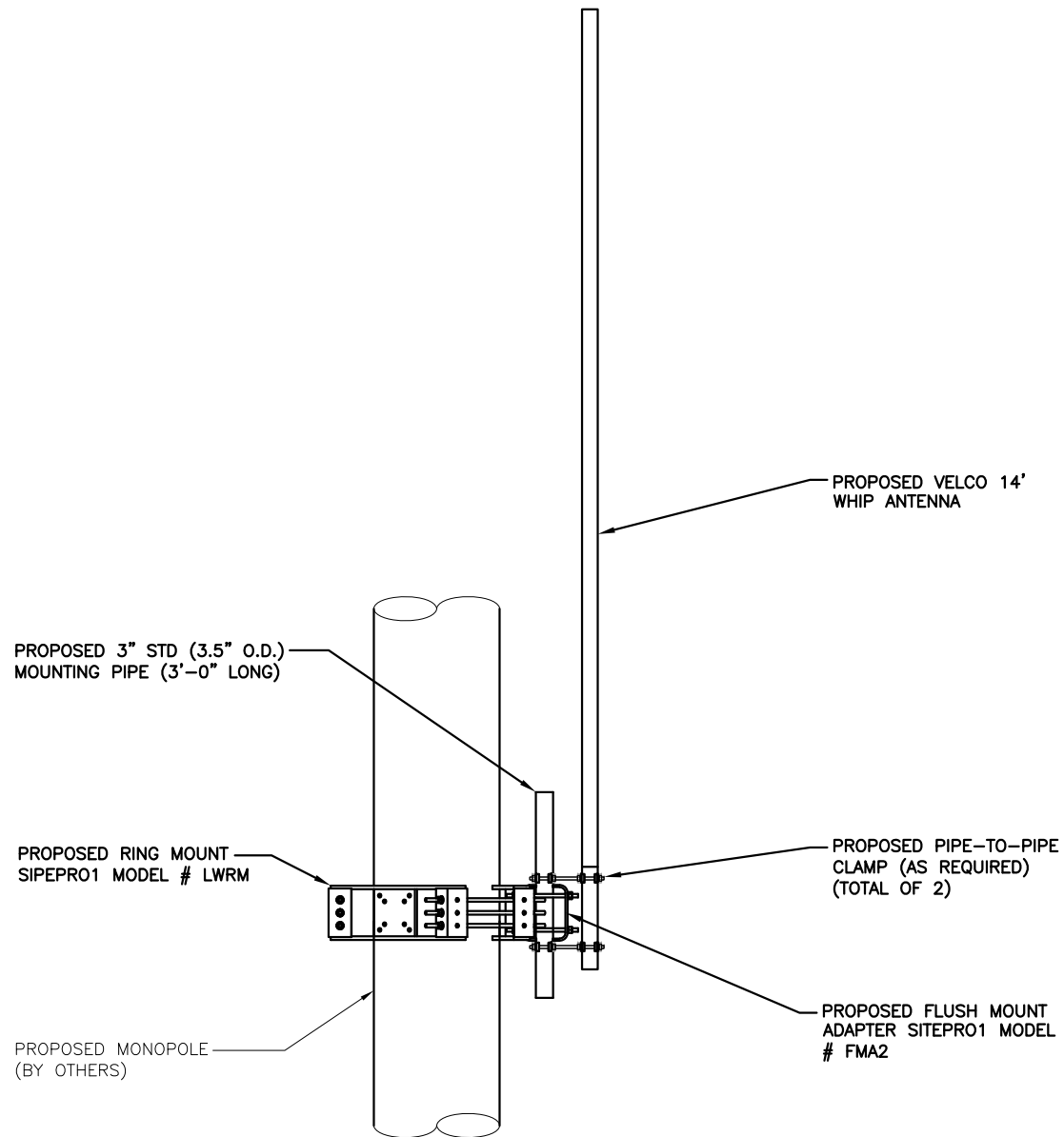
						<b>VELCO</b> <b>ELEVATIONS</b>	
1	02/12/19	ISSUED FOR CONSTRUCTION	SB	AT	CHK		
A	08/29/18	ISSUED FOR REVIEW	SB	AT	CHK		
NO.	DATE	REVISIONS	BY	CHK	APP	DATE	
SCALE: AS SHOWN			DESIGNED BY: AT	DRAWN BY: SB		56	
						DRAWING NUMBER	A-2
						REV	1

**NOTE:**

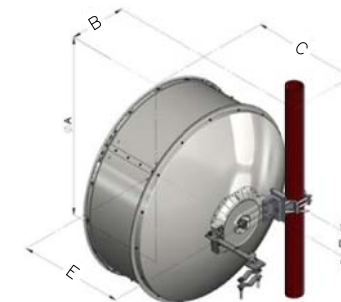
1. ALL VERTICAL TRANSMISSION LINE RUNS FROM THE ANTENNAS SHALL BE GROUNDED NEAR THE TOP AND BOTTOM OF THE TOWER (BEFORE THE CABLE MAKES HORIZONTAL TRANSITION AND NEAR THE ENTRY PORTS ON SHELTERS). ADDITIONAL TRANSMISSION LINE GROUND KITS SHALL BE INSTALLED AS NEEDED TO LIMIT THE DISTANCE BETWEEN GROUND KITS TO 75 FEET.
2. THE CONTRACTOR SHALL CONDUCT A SWEEP TEST ON ALL THE NEWLY INSTALLED TRANSMISSION LINES TO DETERMINE THE CABLE CONDUCTOR RESISTANCE, CABLE INSERTION LOSS, REFLECTION AND STIMULUS RESPONSE MEASUREMENTS.
3. DRIP LOOPS SHALL BE INCORPORATED IN CABLE RUNS TO PREVENT WATER FROM TRICKLING DOWN THE LINES INTO THE BUILDING.
4. ALL TRANSMISSION LINES SHALL BE MARKED WITH APPROPRIATE COLOR TAPE BANDS (ONE INCH WIDE COLOR TAPE) FOR IDENTIFICATION NEAR THE ANTENNA, JUST BEFORE ENTERING THE BUILDING AS WELL AS INSIDE THE BUILDING, BEFORE CONNECTION TO THE SURGE SUPPRESSERS. SEE EQUIPMENT AND COAXIAL CABLE SCHEDULE FOR COLOR CODING SCHEME.



**ANTENNA PLAN**  
 22x34 SCALE: 3/4"=1'-0"  
 11x17 SCALE: 3/8"=1'-0"

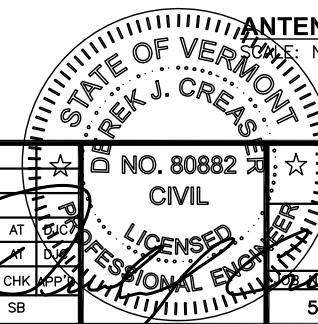


**ANTENNA MOUNTING DETAIL**  
 22x34 SCALE: 3/4"=1'-0"  
 11x17 SCALE: 3/8"=1'-0"



VHLP4 DIMENSION CHART					
ANTENNA SIZE. FT.	A	B	C	D	E
4'	50.8"	16"	30.2	7.2"	29.5"

**ANTENNA DETAIL**  
 11x17 SCALE: N.T.S.



**HUDSON Design Group LLC**  
 45 BEECHWOOD DRIVE  
 NORTH ANDOVER, MA 01845  
 TEL: (978) 557-5553  
 FAX: (978) 336-5586



366 PINNACLE RIDGE ROAD  
 RUTLAND, VT 05701

**SITE NUMBER: 56**  
**SITE NAME: SOUTH HERO**

19 EAGLE CAMP ROAD  
 SOUTH HERO, VT 05486  
 GRAND ISLE COUNTY

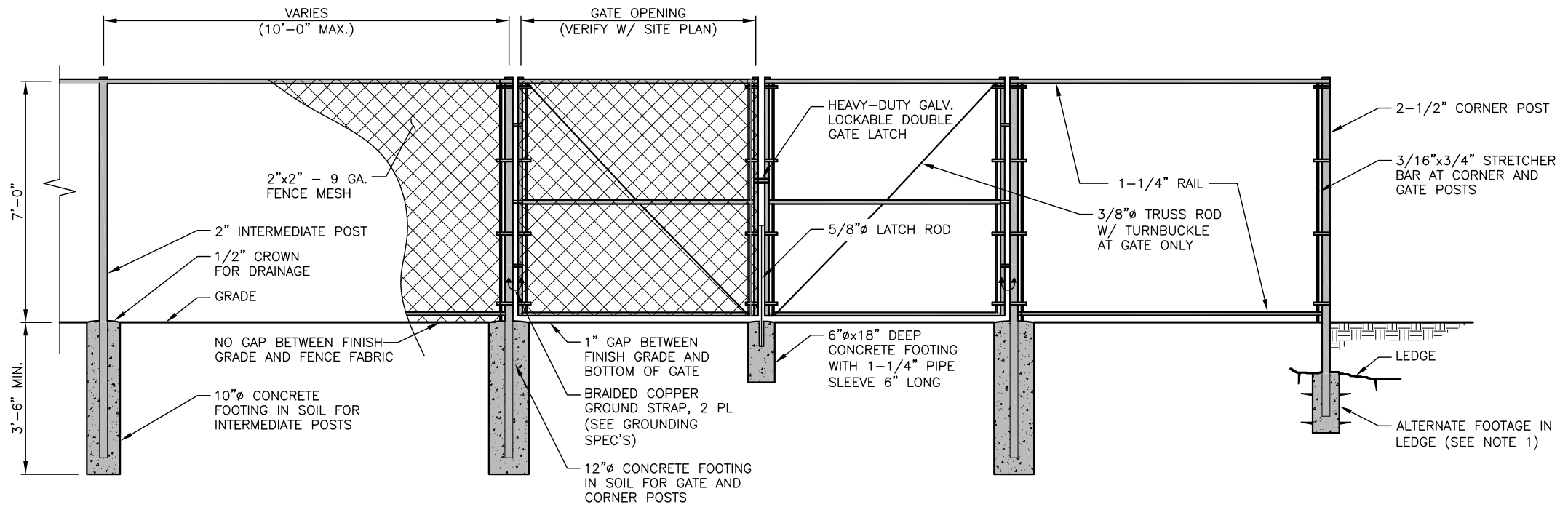


AIROSMITH DEVELOPMENT  
 125 HIGH ROCK AVENUE  
 SARATOGA SPRINGS, NY 12866

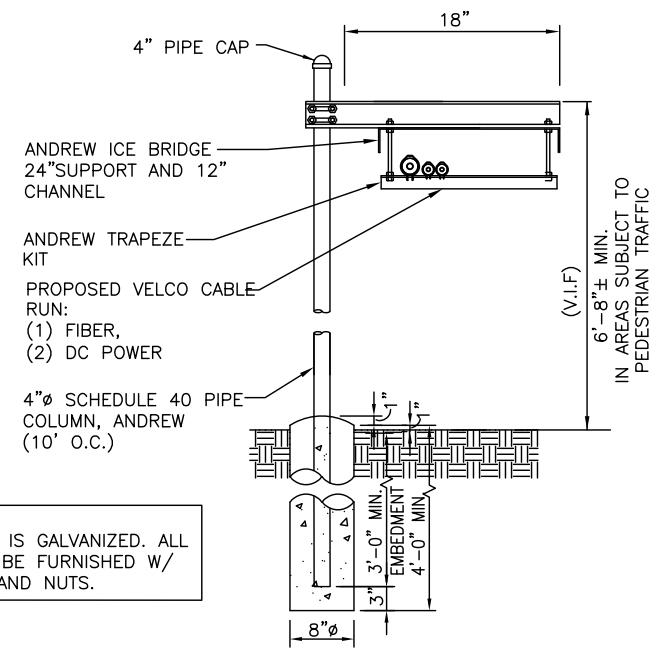
NO.		DATE	REVISIONS	DESIGNED BY: AT	DRAWN BY: SB	SCALE: AS SHOWN	PROJECT NO. 56	DRAWING NUMBER A-3	REV 1
1	02/12/19	ISSUED FOR CONSTRUCTION							
A	08/29/18	ISSUED FOR REVIEW							

**FENCE NOTES**

1. ALTERNATE FOOTINGS FOR ALL FENCE POSTS IN LEDGE: IF LEDGE IS ENCOUNTERED AT GRADE, OR AT A DEPTH SHALLOWER THAN 3'-6", CORE DRILL AN 8" DIA HOLE 18" INTO THE LEDGE. CENTER POST IN THE HOLE AND FILL WITH CONCRETE OR GROUT. IF LEDGE IS BELOW FINISH GRADE, COAT BACKFILLED SECTION OF POST WITH COAL TAR, AND BACKFILL WITH WELL-DRAINING GRAVEL.
2. ATTACH EACH GATE WITH 1-1/2" PAIR OF NON-LIFT-OFF TYPE, MALLEABLE IRON OR FORGING, PIN-TYPE HINGES. ASSEMBLIES SHALL ALLOW FOR 180° OF GATE TRAVEL.



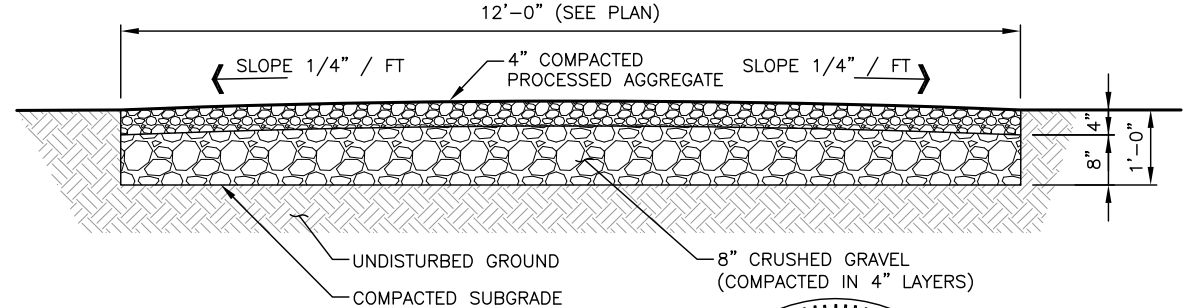
**CHAINLINK FENCE DETAIL** 1  
SCALE: N.T.S. A-4



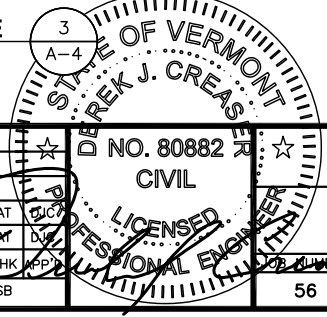
NOTE:  
ALL STEEL IS GALVANIZED. ALL BOLTS TO BE FURNISHED W/ WASHERS AND NUTS.

**ICE BRIDGE DETAIL** 2  
SCALE: N.T.S. A-4

CRUSHED GRAVEL		PROCESSED AGGREGATE	
SIEVE	% PASSING BY WEIGHT	SIEVE	% PASSING BY WEIGHT
5"	100	2-1/4"	100
3-1/2"	90-100	2"	90-100
1-1/2"	55-95	3/4"	50-75
1/4"	25-60	1/4"	25-45
#10	15-45	#40	5-20
#40	5-25	#100	2-12
#100	0-10		
#200	0-5		



**GRAVEL ACCESS DRIVE** 3  
SCALE: N.T.S. A-4

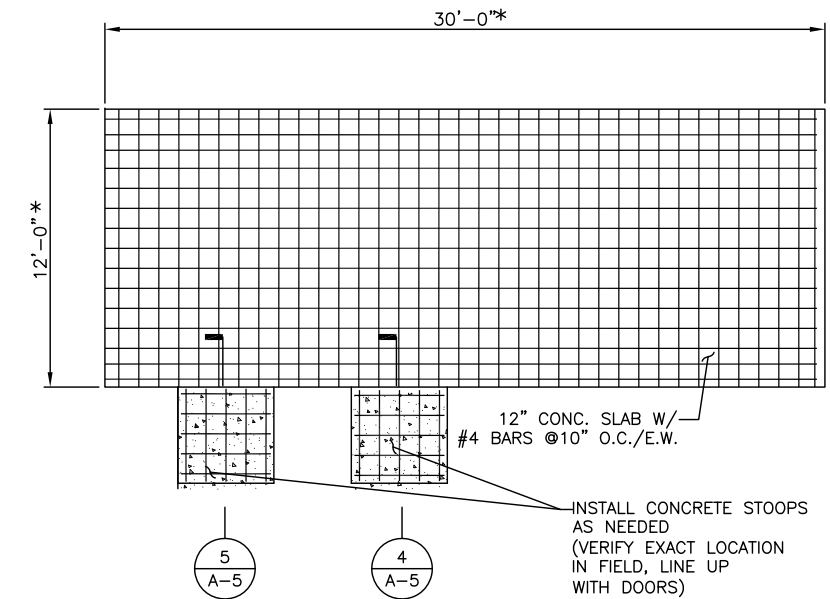
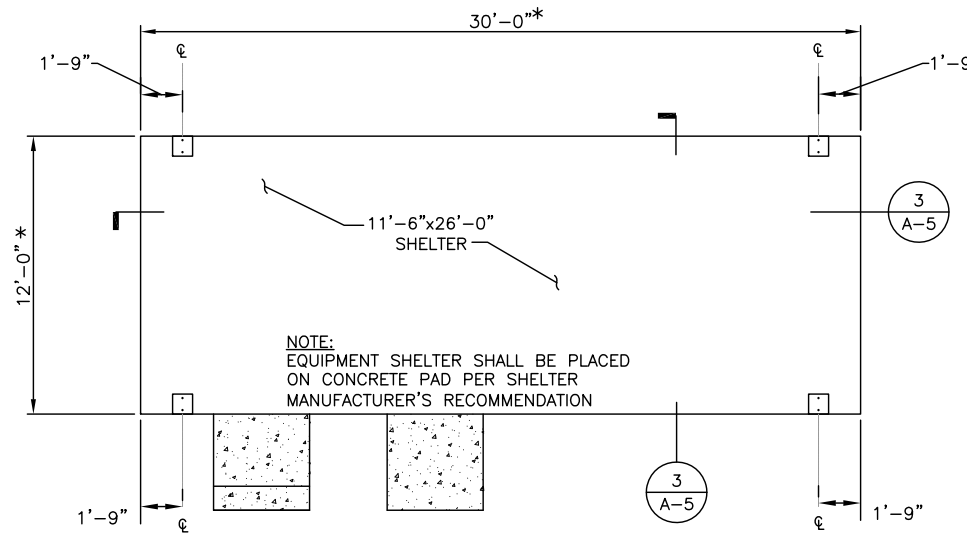


NO.	DATE	REVISIONS	DESIGNED BY:	DRAWN BY:	SCALE:	DRAWING NUMBER	REV
1	02/12/19	ISSUED FOR CONSTRUCTION	AT	SB	AS SHOWN	56	1
A	08/29/18	ISSUED FOR REVIEW	AT	SB		A-4	

**FOUNDATION NOTES & CONCRETE SPECIFICATIONS**

- FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS. EXISTING LEDGE AND ALL OTHER EXISTING UNSUITABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE SHALL BE ROLLED WITH A 1-TON, VIBRATORY, WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS, 6 PASSES MINIMUM, TO PROVIDE UNYIELDING SURFACE.
- UNDERCUT SOFT OR "WEAVING" AREAS A MINIMUM OF 12 INCHES DEEP. BACKFILL UNDERCUT AREA WITH FILL MEETING THE SPECIFICATIONS OF STRUCTURAL FILL.
- CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c)=4000 psi. CONCRETE TO BE AIR ENTRAINED, DESIRED AIR CONTENT TO BE 6% (PLUS OR MINUS 2%)
- REINFORCING BAR TO BE ASTM A615 GRADE 60.
- WELDED WIRE FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A185. WIRES FOR FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A82.
- COORDINATE WITH MANUFACTURER OF PREFABRICATED SHELTER FOR LOCATION OF ATTACHMENTS TO BASE SLAB.
- ALL REINFORCING TO HAVE MINIMUM CONCRETE COVER PER ACI SPECIFICATIONS.
- ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO LATEST EDITION OF ACI 318 AND APPLICABLE STATE BUILDING CODE.

\* GC TO VERIFY EXACT SHELTER SIZE ORDERED AND MAKE SLAB EXACT SIZE AS RECOMMENDED BY SHELTER MANUFACTURER

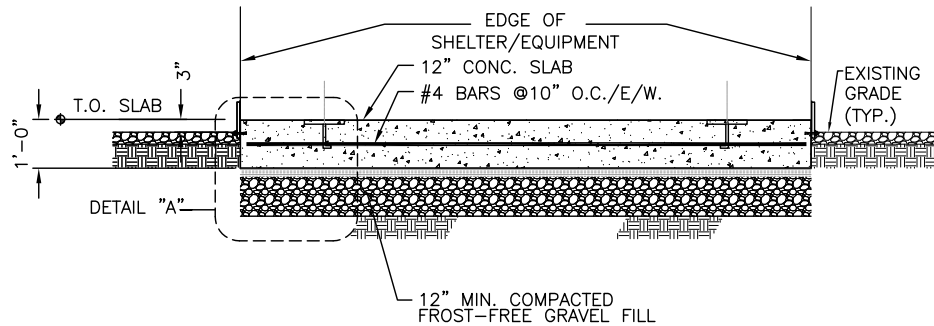


**SHELTER PLAN**

SCALE: 1/4"=1'-0"

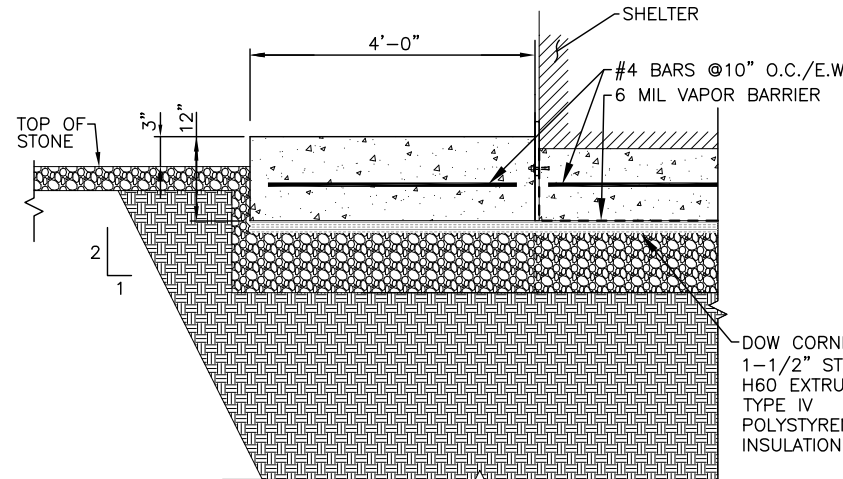
**FOUNDATION PLAN**

SCALE: 1/4"=1'-0"



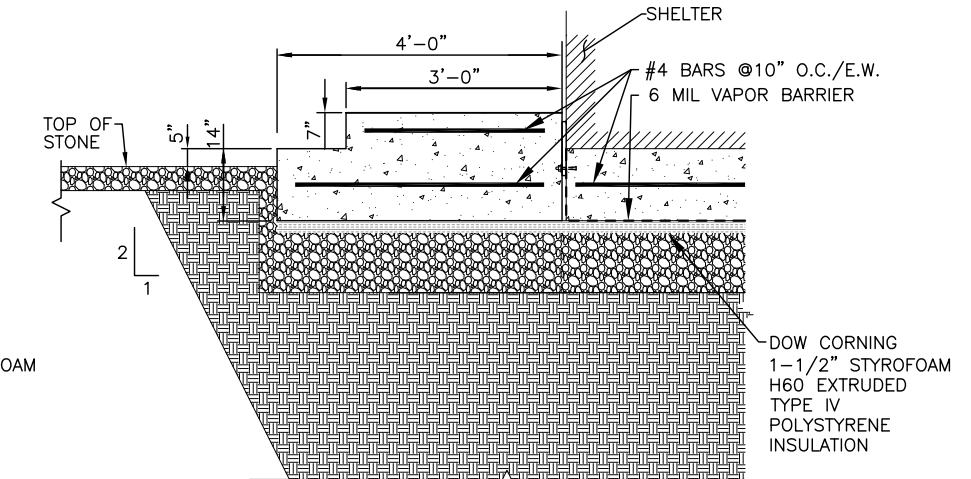
**SECTION**

SCALE: N.T.S.



**SECTION**

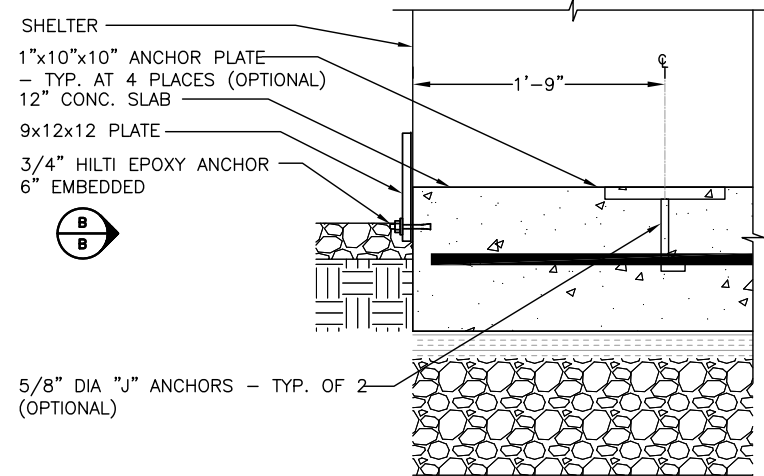
SCALE: 3/4"=1'-0"



**SECTION**

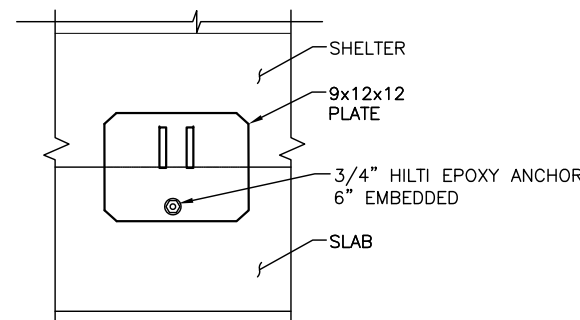
SCALE: 3/4"=1'-0"

NOTE: COORDINATE STOOP HEIGHT WITH BOTTOM OF SHELTER DOOR.



**DETAIL "A"**

SCALE: N.T.S.



**TIE-DOWN PLATE "B-B"**

SCALE: N.T.S.



45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01845  
TEL: (978) 557-5553  
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366 PINNACLE RIDGE ROAD  
RUTLAND, VT 05701

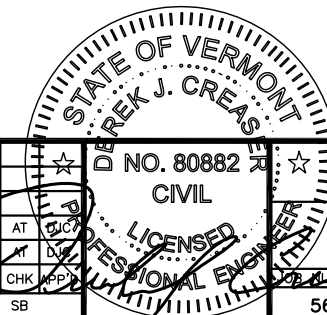
**SITE NUMBER: 56**  
**SITE NAME: SOUTH HERO**

19 EAGLE CAMP ROAD  
SOUTH HERO, VT 05486  
GRAND ISLE COUNTY



AIROSMITH DEVELOPMENT  
125 HIGH ROCK AVENUE  
SARATOGA SPRINGS, NY 12866

1		02/12/19	ISSUED FOR CONSTRUCTION	SB	AT	CHK	APP	REV	NO.	DATE	REVISIONS	DESIGNED BY: AT	DRAWN BY: SB	SCALE: AS SHOWN
A		08/29/18	ISSUED FOR REVIEW	SB	AT	CHK	APP	REV	NO.	DATE	REVISIONS	DESIGNED BY: AT	DRAWN BY: SB	SCALE: AS SHOWN

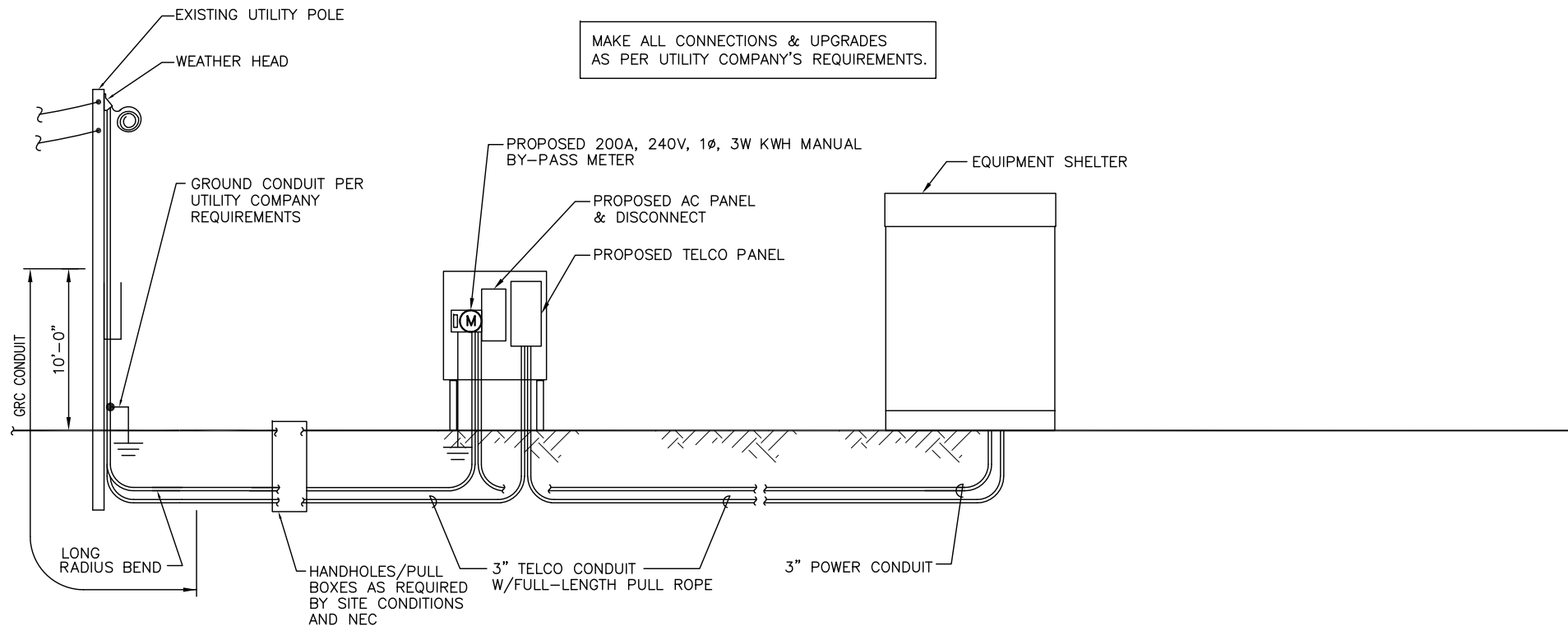


VELCO

SHELTER FOUNDATION DETAILS

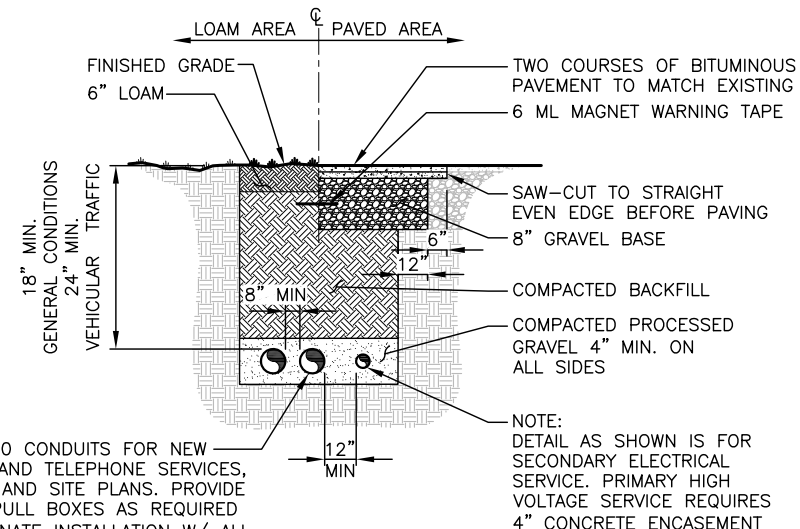
DRAWING NUMBER  
A-5

REV  
1



MAKE ALL CONNECTIONS & UPGRADES AS PER UTILITY COMPANY'S REQUIREMENTS.

**POWER RISER DIAGRAM** 1  
SCALE: N.T.S. E-1



SCHEDULE 40 CONDUITS FOR NEW ELECTRICAL AND TELEPHONE SERVICES, SEE UTILITY AND SITE PLANS. PROVIDE APPROVED PULL BOXES AS REQUIRED AND COORDINATE INSTALLATION W/ ALL UTILITY COMPANIES FOR INTERFACING AT TERMINATION POINTS. PROVIDE FULL LENGTH PULL ROPES (TYP.)

NOTE: DETAIL AS SHOWN IS FOR SECONDARY ELECTRICAL SERVICE. PRIMARY HIGH VOLTAGE SERVICE REQUIRES 4\"/>

INSTALL (2) PULL STRINGS AND CAP THE TELCO CONDUITS INSIDE THE VAULT AND MESA CABINET TO AVOID WATER/ICE FILL UP.

**BURIED CONDUIT DETAIL** 2  
SCALE: N.T.S. E-1

**ELECTRICAL LEGEND**

	NEW PANEL BOARD, SURFACE MOUNTED		V	VOLT
	EXISTING PANEL BOARD, SURFACE MOUNTED		KWH	KILOWATT - HOUR
	DRY TYPE TRANSFORMER		C	CONDUIT
	METER		GRC	GALVANIZED RIGID CONDUIT
	CIRCUIT BREAKER		G	GROUND
	NON-FUSIBLE DISCONNECT SWITCH, MOUNTED 54\"/>			
	FUSIBLE DISCONNECT SWITCH, MOUNTED 54\"/>			
	TRANSIENT VOLTAGE SURGE SUPPRESSOR WITH BUILT-IN FUSES, SURFACE MOUNTED		MGB	MASTER GROUND BAR
	DUPLEX OUTLET, SURFACE MOUNTED, 20 AMPS, 125 VOLTS, SINGLE PHASE		EGB	EQUIPMENT GROUND BAR
	JUNCTION BOX, SURFACE MOUNTED 18\"/>			
	EXPOSED WIRING		G	GROUND COPPER WIRE, SIZE AS NOTED
	HOME RUNS, MINIMUM 2#10 + 1#10G IN 3/4\"/>			
	A.F.F.		—	EXPOSED WIRING
	U.O.N.		—	COAXIAL CABLE
	WP		—	5/8\"/>
	GFI		—	EXOTHERMIC (CAD WELD) OR MECHANICAL (COMPRESSION TYPE) CONNECTION
	A		PPC	POWER PROTECTION CABINET
			⊗	OMNI-DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALL

**ELECTRICAL AND GROUNDING NOTES**

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THININSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- PPC SUPPLIED BY PROJECT OWNER.
- GROUNDING SHALL COMPLY WITH NEC ART. 250.
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12\"/>

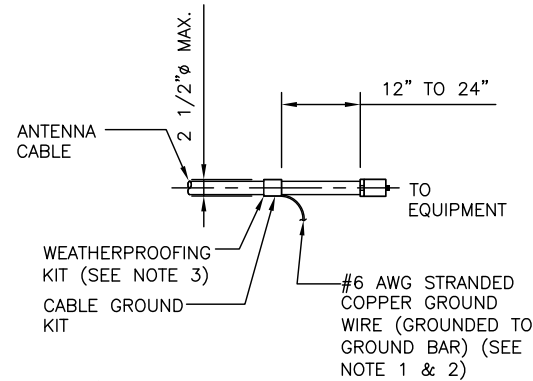
**HUDSON Design Group LLC**  
45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01845  
TEL: (978) 557-5553  
FAX: (978) 336-5586

**VERMONT ELECTRIC  
VELCO  
POWER COMPANY, INC.**  
366 PINNACLE RIDGE ROAD  
RUTLAND, VT 05701

**SITE NUMBER: 56  
SITE NAME: SOUTH HERO**  
19 EAGLE CAMP ROAD  
SOUTH HERO, VT 05486  
GRAND ISLE COUNTY

**AIROSMITH DEVELOPMENT**  
125 HIGH ROCK AVENUE  
SARATOGA SPRINGS, NY 12866

NO. 80882		VERMONT CIVIL ENGINEER		VERMONT PROFESSIONAL ENGINEER	
DATE		REVISIONS		JOB NUMBER	
1	02/12/19	ISSUED FOR CONSTRUCTION	SB	AT	56
A	08/29/18	ISSUED FOR REVIEW	SB	AT	56
NO.	DATE	REVISIONS	CHK	APP'D	JOB NUMBER
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: SB		56
				DRAWING NUMBER	REV
				E-1	1

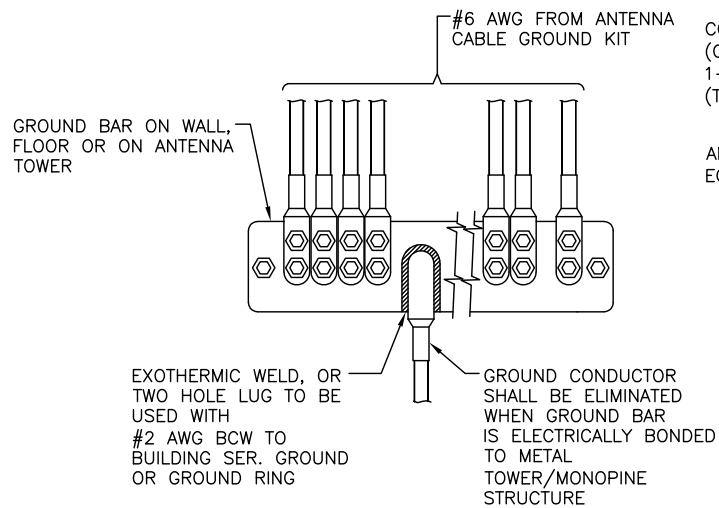


- NOTES:**
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
  - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

WEATHER PROOFING SHALL BE TWO-PART TAPE SUPPLIED WITH KIT. COLD SHRINK SHALL NOT BE USED.

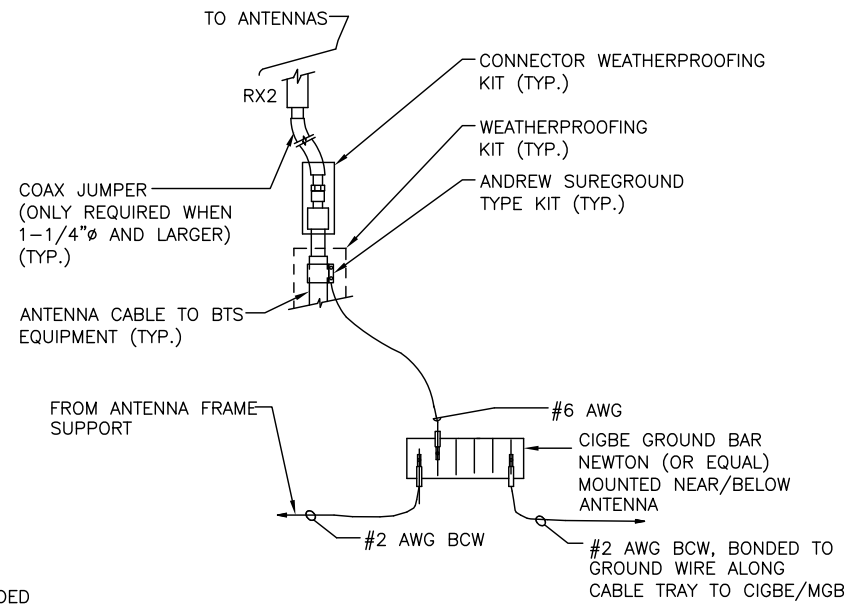
**CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE**

SCALE: N.T.S. 1  
G-1



**INSTALLATION OF GROUND WIRE TO GROUND BAR**

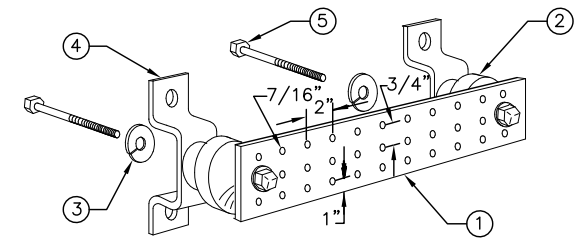
SCALE: N.T.S. 2  
G-1



**NOTE:**  
DON NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

**INSTALLATION OF GROUND WIRE TO GROUNDING BAR, TOWER**

SCALE: N.T.S. 3  
G-1

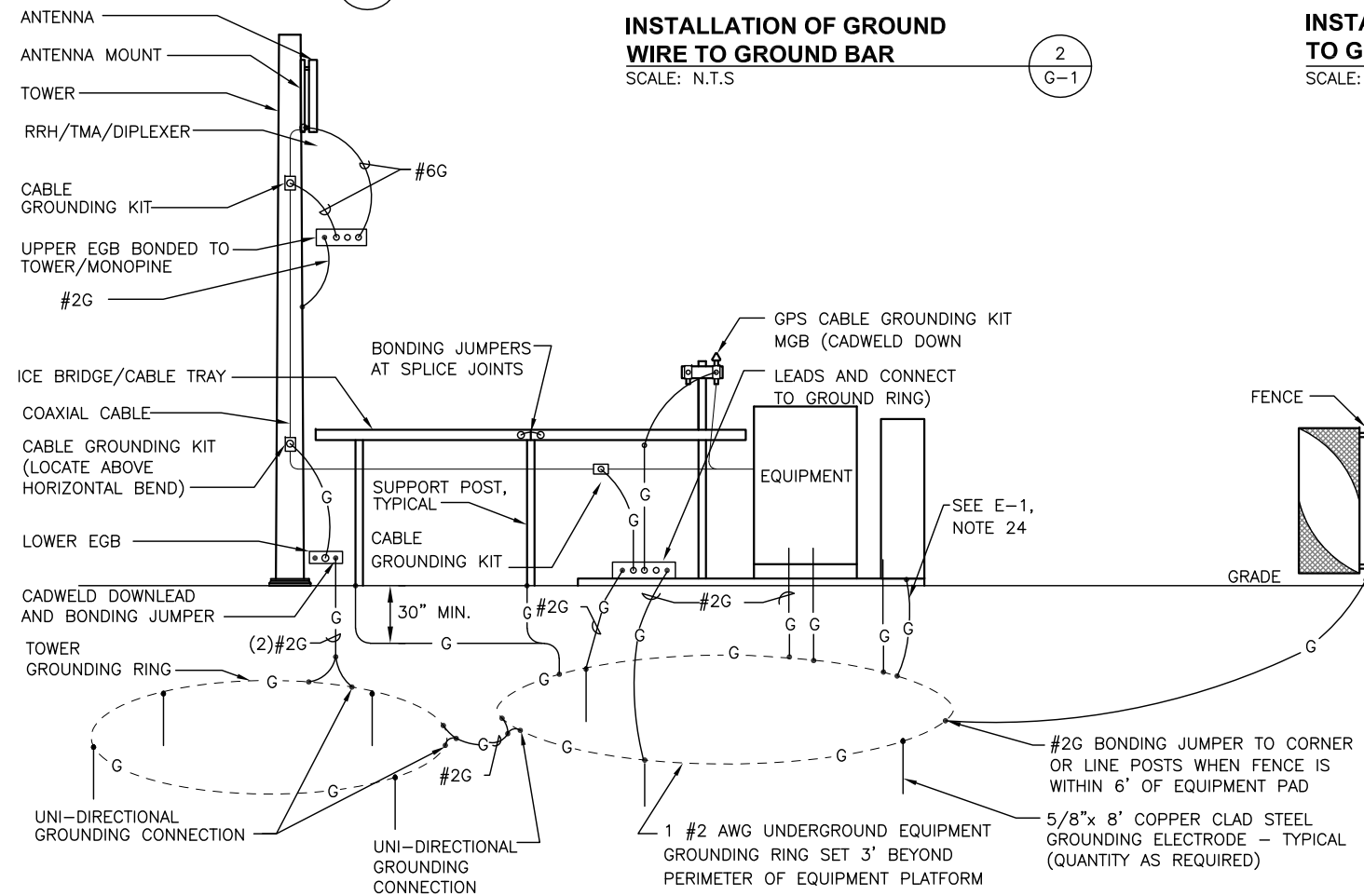


**LEGEND**

- COPPER GROUND BAR, 1/4"x4"x24", BY NEWTON INSTRUMENT CO. OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL
- 5/8" LOCKWASHERS OR EQUAL
- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6056 OR EQUAL
- 5/8-11x1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1 OR EQUAL
- INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPINE STRUCTURE. CONNECTION TO TOWER/MONOPINE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

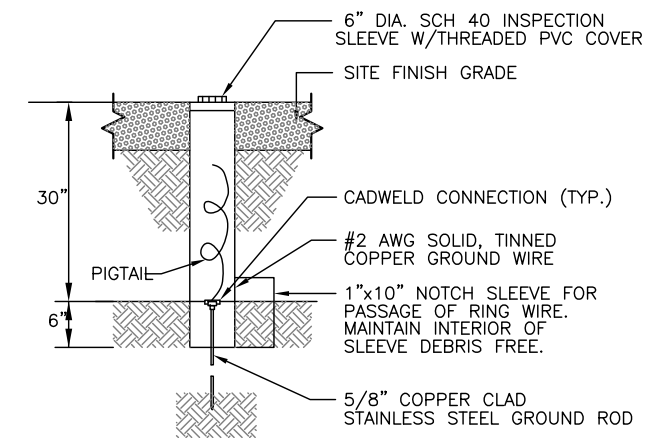
**GROUND BAR DETAIL**

SCALE: N.T.S. 4  
G-1



**GROUNDING ONE-LINE DIAGRAM**

SCALE: N.T.S. 5  
G-1



**GROUND ROD TEST WELL DETAIL**

SCALE: N.T.S.

		STATE OF VERMONT BREK J. CREAS LICENSED PROFESSIONAL ENGINEER NO. 80882		VELCO	
		CIVIL		GROUNDING DETAILS	
1	02/12/19	ISSUED FOR CONSTRUCTION	SB	AT	CHK
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				56	G-1
					1