



- ### GENERAL NOTES
- FIELD SURVEY DATE: APRIL 17, 2021
  - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
  - HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) GEOID 09. ± BY RTK GPS OBSERVATIONS
  - CENTER EXISTING TOWER: 44° 28' 59.87" N  
72° 20' 16.20" W
  - OWNER: RODERICK L. & CLAIRE M. MAYO, TRUSTEES OF THE RODERICK & CLAIRE M. MAYO JOINT REVOCABLE TRUST U/T/A 121 BUCK LAKE ROAD, WOODBURY, VT 05681
  - SITE NAME: HARDWICK, VT
  - SITE NUMBER: VT1061
  - SITE ADDRESS: 1090 HOPKINS HILL ROAD HARDWICK, VT 05843
  - JURISDICTION: TOWN OF HARDWICK, VT
  - TAX ID: MAP 10068, PARCEL 40, LOT 2
  - DEED REFERENCE: BOOK 137, PAGE 321
  - PLAT REFERENCE: SLIDE 24
  - ABUTTERS INFORMATION TAKEN FROM TOWN TAX DATA.
  - GRID NORTH BASED ON GPS.
  - ELEVATIONS AND COORDINATES FROM GPS LOCATIONS.
  - ALL UNDERGROUND UTILITY INFORMATION PRESENTED HEREON WAS DETERMINED FROM SURFACE EVIDENCE AND PLANS OF RECORD. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO COMMENCEMENT OF ALL SITE WORK. CALL DIGSAFE 1(800) 322-4844 A MINIMUM OF 72 HOURS PRIOR TO PLANNED ACTIVITY.
  - ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE PROPOSED TOWER ON THIS PROPERTY IS LOCATED IN AN AREA DESIGNATED AS ZONE X. NOT WITHIN THE 100 YEAR FLOOD BOUNDARY. PANEL NO. 5000270018D, EFFECTIVE ON 07/17/2002.
  - PROPERTY LINE INFORMATION IS COMPILED FROM DEEDS & PLANS OF RECORD & IS NOT THE RESULT OF A FULL BOUNDARY SURVEY.
  - BEARING SYSTEM OF THIS PLAN IS BASED ON GRID NORTH.
  - THE LOCUS PARCEL & ALL ABUTTING PROPERTIES ARE WITHIN THE RURAL RESIDENTIAL ZONING DISTRICT.

### ZONING INFORMATION

DISTRICT: RURAL RESIDENTIAL (RR) DISTRICT

	REQUIRED	PROPOSED
MIN. LOT AREA:	3 ACRES	NO CHANGE
MIN. LOT FRONTAGE:	200 FT	NO CHANGE
MIN. FRONT YARD SETBACK:	35 FT	913 FT*
MIN. SIDE YARD SETBACK:	50 FT	183 FT*
MIN. REAR YARD SETBACK:	50 FT	1042 FT*
MAX BUILDING HEIGHT:	35 FT	10 FT WIC

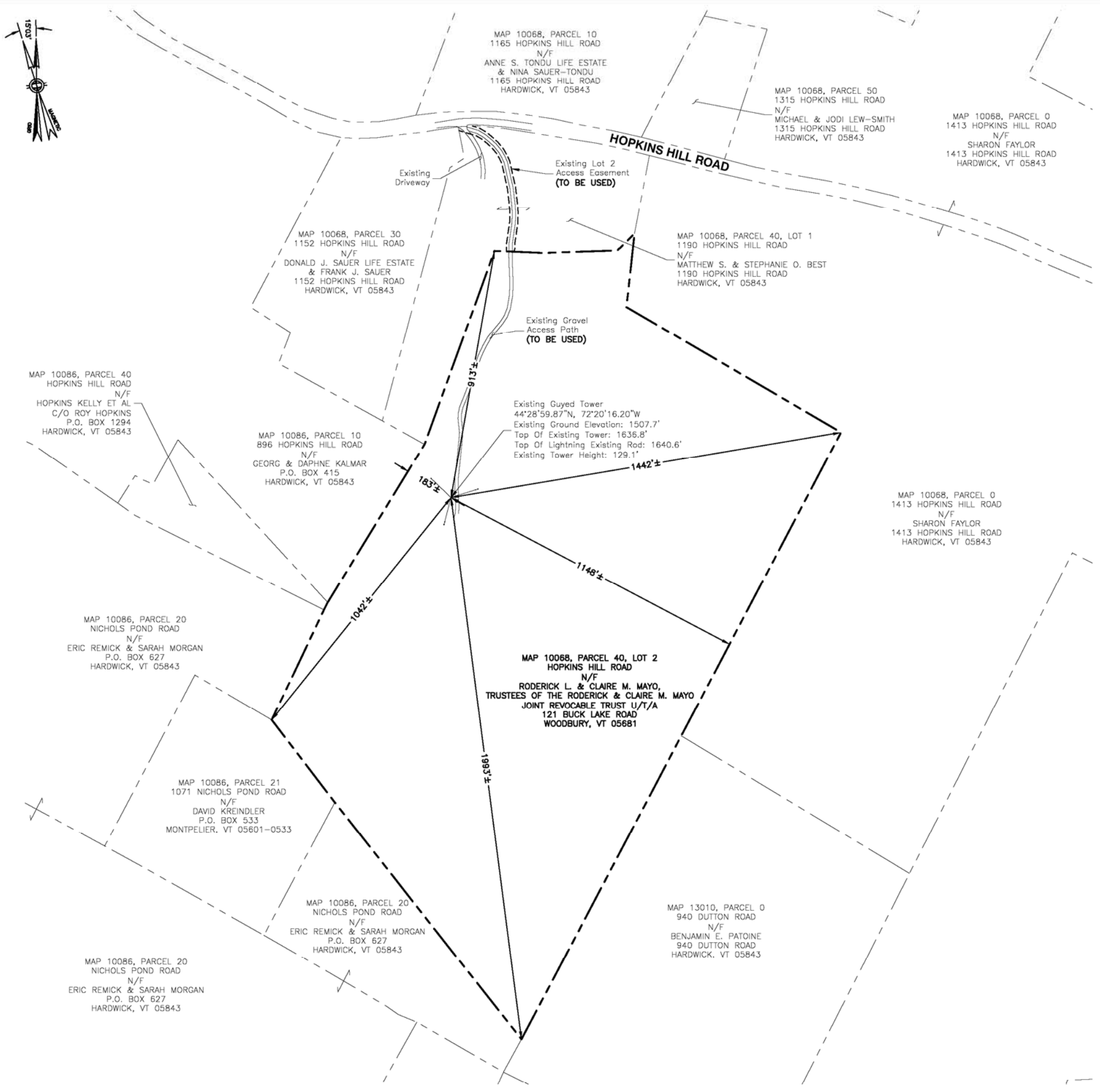
\*SETBACKS ARE TO EXISTING TOWER CENTER

### LEGEND

	LOCUS PROPERTY LINE
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	COMMON OWNERSHIP

**ABUTTERS PLAN**  
SCALE: 1"=120' FOR 11"x17"  
1"=60' FOR 22"x34"

0' 60' 120'



**AT&T**  
550 COCHITUATE ROAD  
SUITES 13 & 14  
FRAMINGHAM, MA 01701

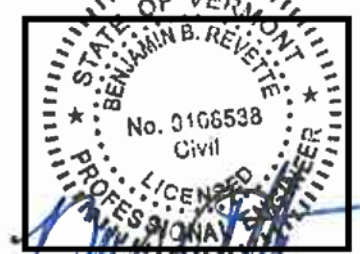
**CENTERLINE COMMUNICATIONS**  
750 W. CENTER ST. SUITE #301  
WEST BRIDGEWATER, MA 02379

**HARDWICK  
SITE NO.: VT1061**

### ZONING DRAWINGS

0	09/10/21	FOR SUBMITTAL
A	09/09/21	FOR COMMENT

**Dewberry**  
Dewberry Engineers Inc.  
99 SUMMER STREET  
SUITE 700  
BOSTON, MA 02110  
PHONE: 617.695.3400  
FAX: 617.695.3310



DRAWN BY: GMT  
REVIEWED BY: DAS  
CHECKED BY: BBR  
PROJECT NUMBER: 50123874  
JOB NUMBER: 50123895  
SITE ADDRESS:

1190 HOPKINS HILL ROAD  
HARDWICK, VT 05843

SHEET TITLE  
**ABUTTERS  
PLAN**  
SHEET NUMBER

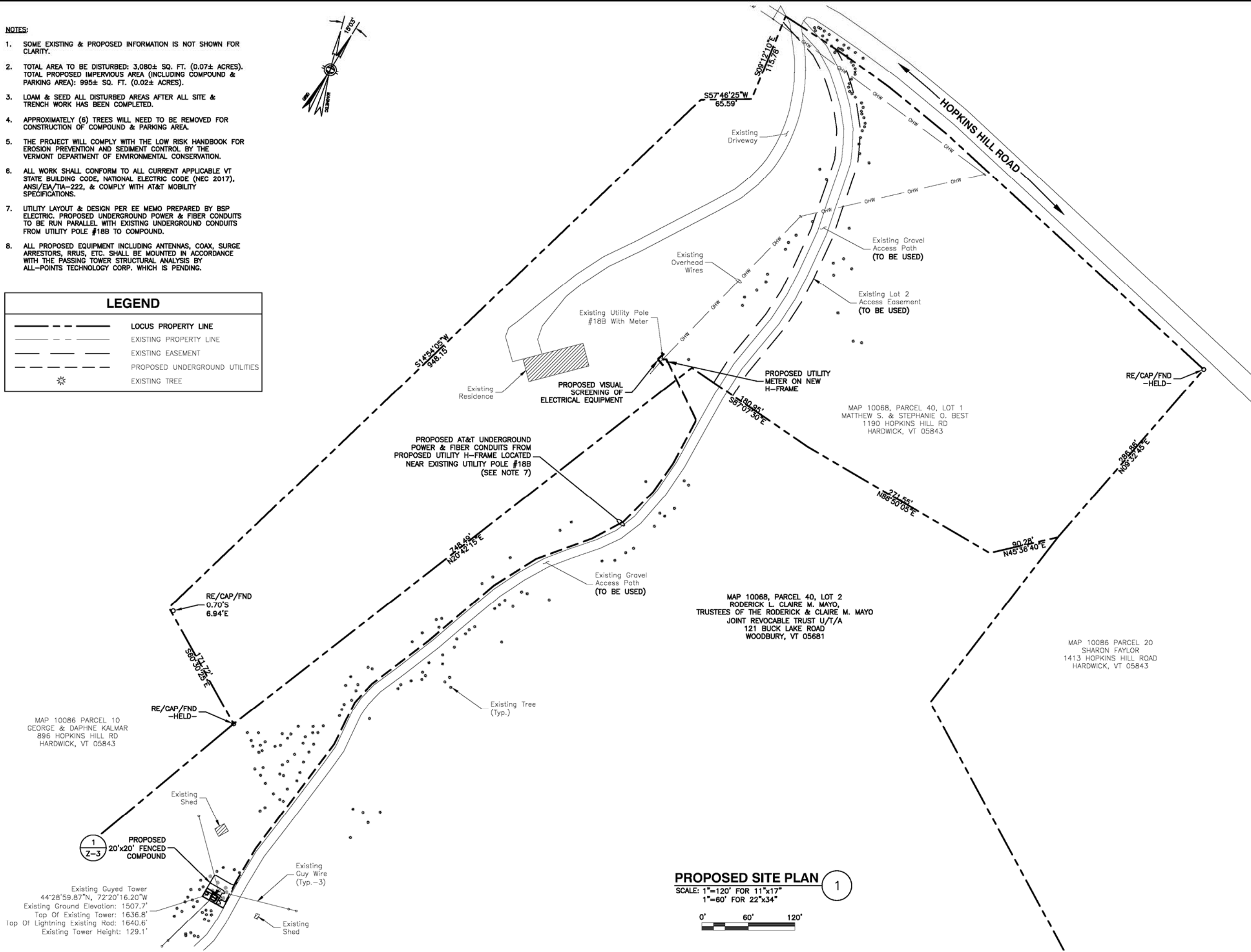
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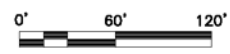
**NOTES:**

- SOME EXISTING & PROPOSED INFORMATION IS NOT SHOWN FOR CLARITY.
- TOTAL AREA TO BE DISTURBED: 3,080± SQ. FT. (0.07± ACRES). TOTAL PROPOSED IMPERVIOUS AREA (INCLUDING COMPOUND & PARKING AREA): 995± SQ. FT. (0.02± ACRES).
- LOAM & SEED ALL DISTURBED AREAS AFTER ALL SITE & TRENCH WORK HAS BEEN COMPLETED.
- APPROXIMATELY (6) TREES WILL NEED TO BE REMOVED FOR CONSTRUCTION OF COMPOUND & PARKING AREA.
- THE PROJECT WILL COMPLY WITH THE LOW RISK HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL BY THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE VT STATE BUILDING CODE, NATIONAL ELECTRIC CODE (NEC 2017), ANSI/EIA/TIA-222, & COMPLY WITH AT&T MOBILITY SPECIFICATIONS.
- UTILITY LAYOUT & DESIGN PER EE MEMO PREPARED BY BSP ELECTRIC. PROPOSED UNDERGROUND POWER & FIBER CONDUITS TO BE RUN PARALLEL WITH EXISTING UNDERGROUND CONDUITS FROM UTILITY POLE #18B TO COMPOUND.
- ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, SURGE ARRESTORS, RRUS, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE PASSING TOWER STRUCTURAL ANALYSIS BY ALL-POINTS TECHNOLOGY CORP. WHICH IS PENDING.

LEGEND	
	LOCUS PROPERTY LINE
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED UNDERGROUND UTILITIES
	EXISTING TREE



**PROPOSED SITE PLAN** 1  
SCALE: 1"=120' FOR 11"x17"  
1"=60' FOR 22"x34"



550 COCHITUATE ROAD  
SUITES 13 & 14  
FRAMINGHAM, MA 01701

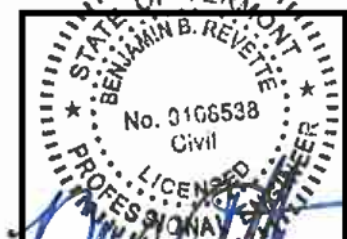


750 W. CENTER ST. SUITE #301  
WEST BRIDGEWATER, MA 02379

**HARDWICK  
SITE NO.: VT1061**

ZONING DRAWINGS		
O	09/10/21	FOR SUBMITTAL
A	09/09/21	FOR COMMENT

**Dewberry**<sup>®</sup>  
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99 SUMMER STREET  
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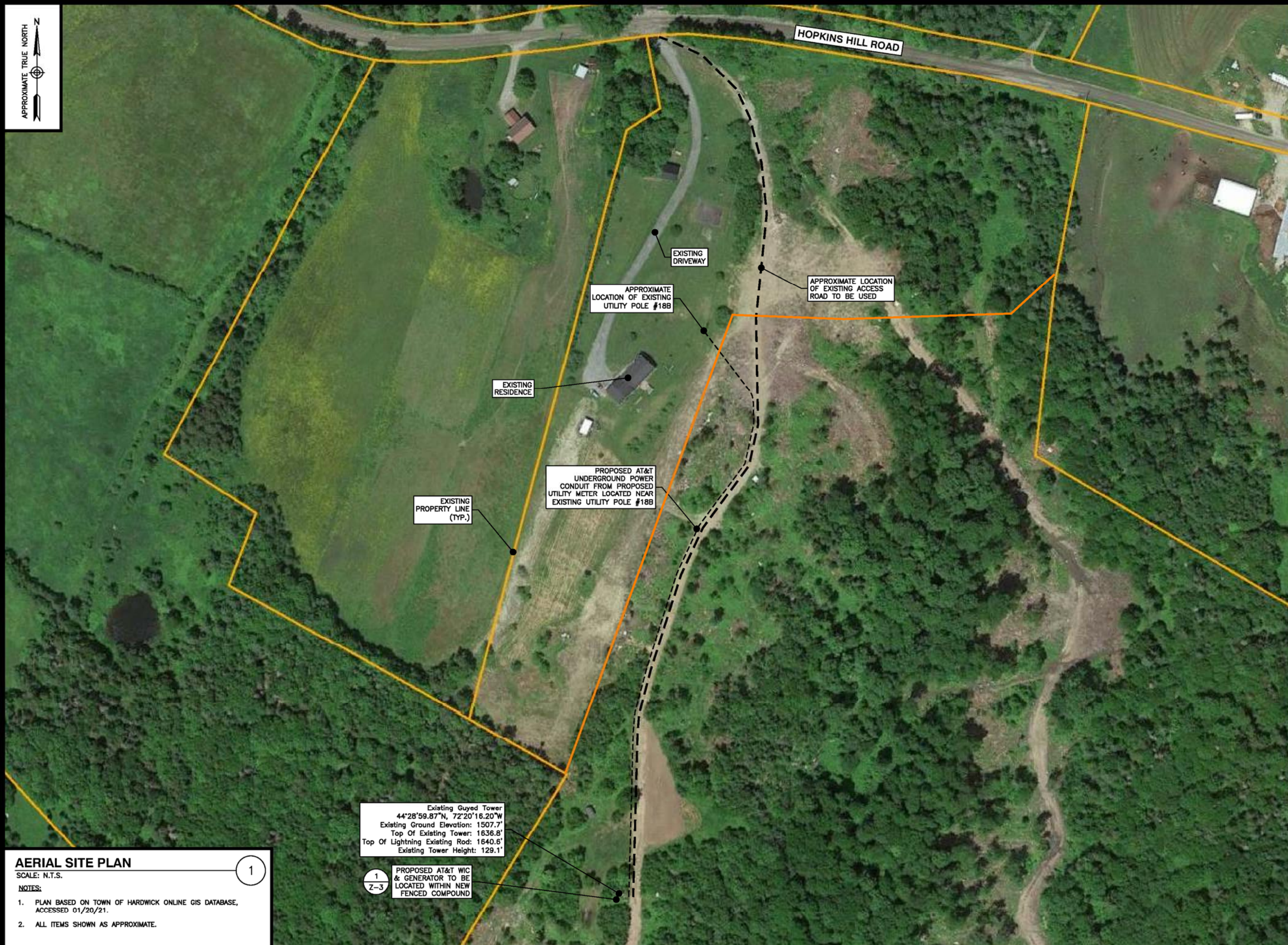


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PROJECT NUMBER:	50123874
JOB NUMBER:	50123895
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1190 HOPKINS HILL ROAD  
HARDWICK, VT 05843

SHEET TITLE	PROPOSED SITE PLAN
SHEET NUMBER	Z-2





Existing Guyed Tower  
 44°28'59.87"N, 72°20'16.20"W  
 Existing Ground Elevation: 1507.7'  
 Top Of Existing Tower: 1636.8'  
 Top Of Lightning Existing Rod: 1640.6'  
 Existing Tower Height: 129.1'

1  
 Z-3  
 PROPOSED AT&T WIC & GENERATOR TO BE LOCATED WITHIN NEW FENCED COMPOUND

**AERIAL SITE PLAN**  
 SCALE: N.T.S.  
 NOTES:  
 1. PLAN BASED ON TOWN OF HARDWICK ONLINE GIS DATABASE, ACCESSED 01/20/21.  
 2. ALL ITEMS SHOWN AS APPROXIMATE.

**AT&T**  
 550 COCHITUATE ROAD  
 SUITES 13 & 14  
 FRAMINGHAM, MA 01701

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 WEST BRIDGEWATER, MA 02379

**HARDWICK  
 SITE NO.: VT1061**

ZONING DRAWINGS

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A	09/09/21	FOR COMMENT

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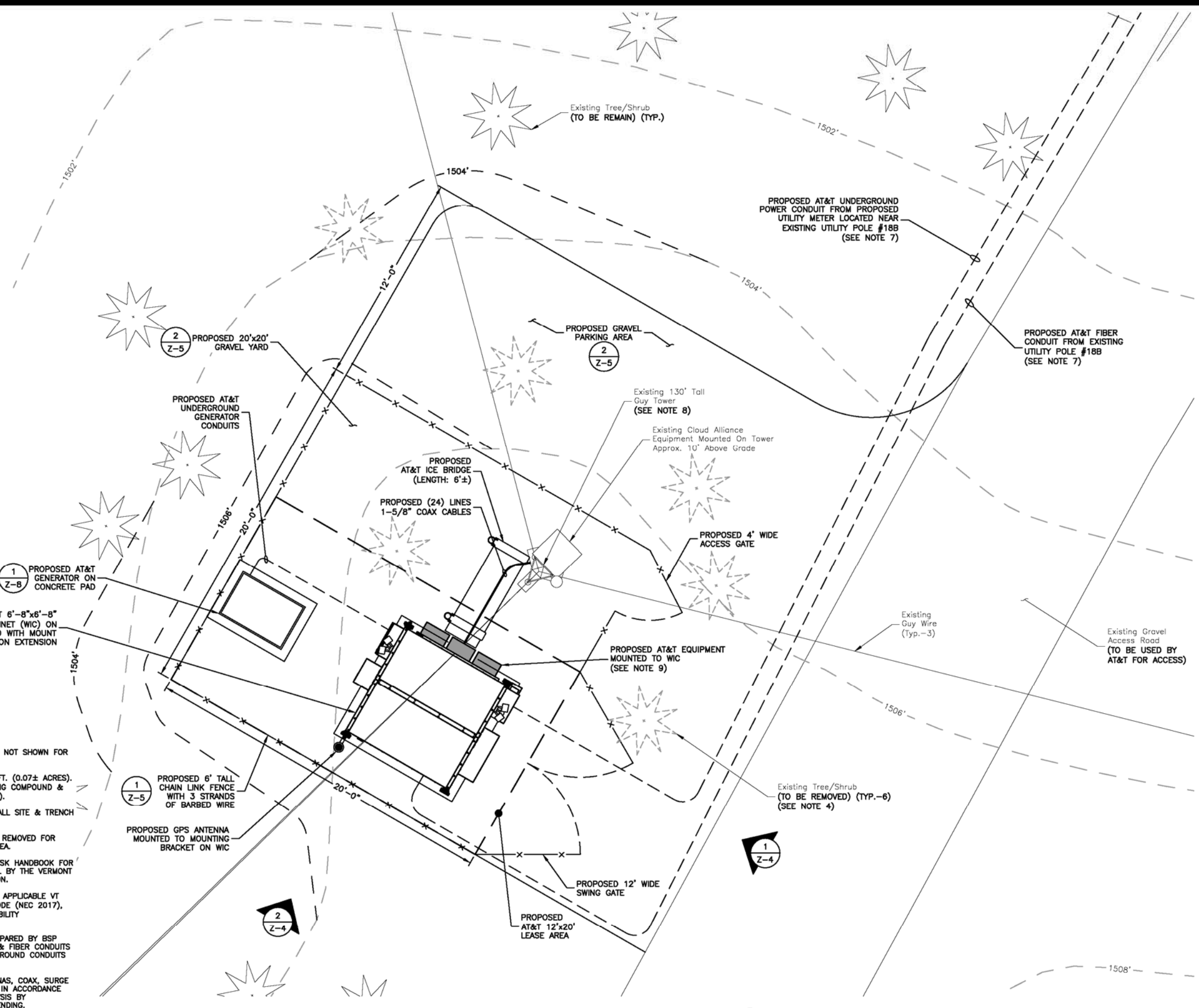
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 CHECKED BY: BBR  
 PROJECT NUMBER: 50123874  
 JOB NUMBER: 50123895  
 SITE ADDRESS:

1190 HOPKINS HILL ROAD  
 HARDWICK, VT 05843

SHEET TITLE  
 PROPOSED  
 AERIAL SITE PLAN  
 SHEET NUMBER

Z-2A





- NOTES:**
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  - UTILITY LAYOUT & DESIGN PER EE MEMO PREPARED BY BSP ELECTRIC. PROPOSED UNDERGROUND POWER & FIBER CONDUITS TO BE RUN PARALLEL WITH EXISTING UNDERGROUND CONDUITS FROM UTILITY POLE #188 TO COMPOUND.
  - ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, SURGE ARRESTORS, RRUS, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE PASSING TOWER STRUCTURAL ANALYSIS BY ALL-POINTS TECHNOLOGY CORP. WHICH IS PENDING.
  - WIC MOUNTED RF EQUIPMENT INCLUDES THE FOLLOWING, PER LATEST RFDS:
    - RRUS: (3/SECTOR) (9 TOTAL)
    - DIPLEXERS: (4/SECTOR) (12 TOTAL)
    - QUADPLEXERS: (4/SECTOR) (12 TOTAL)
    - SURGE ARRESTORS: (16/SECTOR) (48 TOTAL)

**PROPOSED COMPOUND & GRADING PLAN** 1  
 SCALE: 1"=6' FOR 11'x17"  
 1"=3' FOR 22'x34"  
 0' 3' 6'

**AT&T**  
 550 COCHITUATE ROAD  
 SUITES 13 & 14  
 FRAMINGHAM, MA 01701

**CENTERLINE COMMUNICATIONS**  
 750 W. CENTER ST. SUITE #301  
 WEST BRIDGEWATER, MA 02379

**HARDWICK  
 SITE NO.: VT1061**

ZONING DRAWINGS

0	09/10/21	FOR SUBMITTAL
A	09/09/21	FOR COMMENT

**Dewberry**  
 Dewberry Engineers Inc.  
 99 SUMMER STREET  
 SUITE 700  
 BOSTON, MA 02110  
 PHONE: 617.695.3400  
 FAX: 617.695.3310



DRAWN BY: GMT  
 REVIEWED BY: DAS  
 CHECKED BY: BBR  
 PROJECT NUMBER: 50123874  
 JOB NUMBER: 50123895  
 SITE ADDRESS:

1190 HOPKINS HILL ROAD  
 HARDWICK, VT 05843

SHEET TITLE  
**PROPOSED COMPOUND & GRADING PLAN**  
 SHEET NUMBER

Z-3





550 COCHITUATE ROAD  
SUITES 13 & 14  
FRAMINGHAM, MA 01701



750 W. CENTER ST. SUITE #301  
WEST BRIDGEWATER, MA 02379

**HARDWICK**  
SITE NO.: VT1061

ZONING DRAWINGS

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A	09/09/21	FOR COMMENT



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BOSTON, MA 02110  
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FAX: 617.695.3310



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REVIEWED BY: DAS

CHECKED BY: BBR

PROJECT NUMBER: 50123874

JOB NUMBER: 50123895

SITE ADDRESS

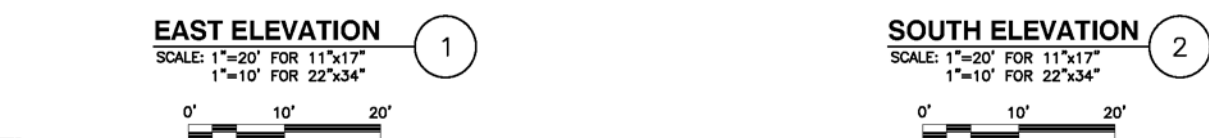
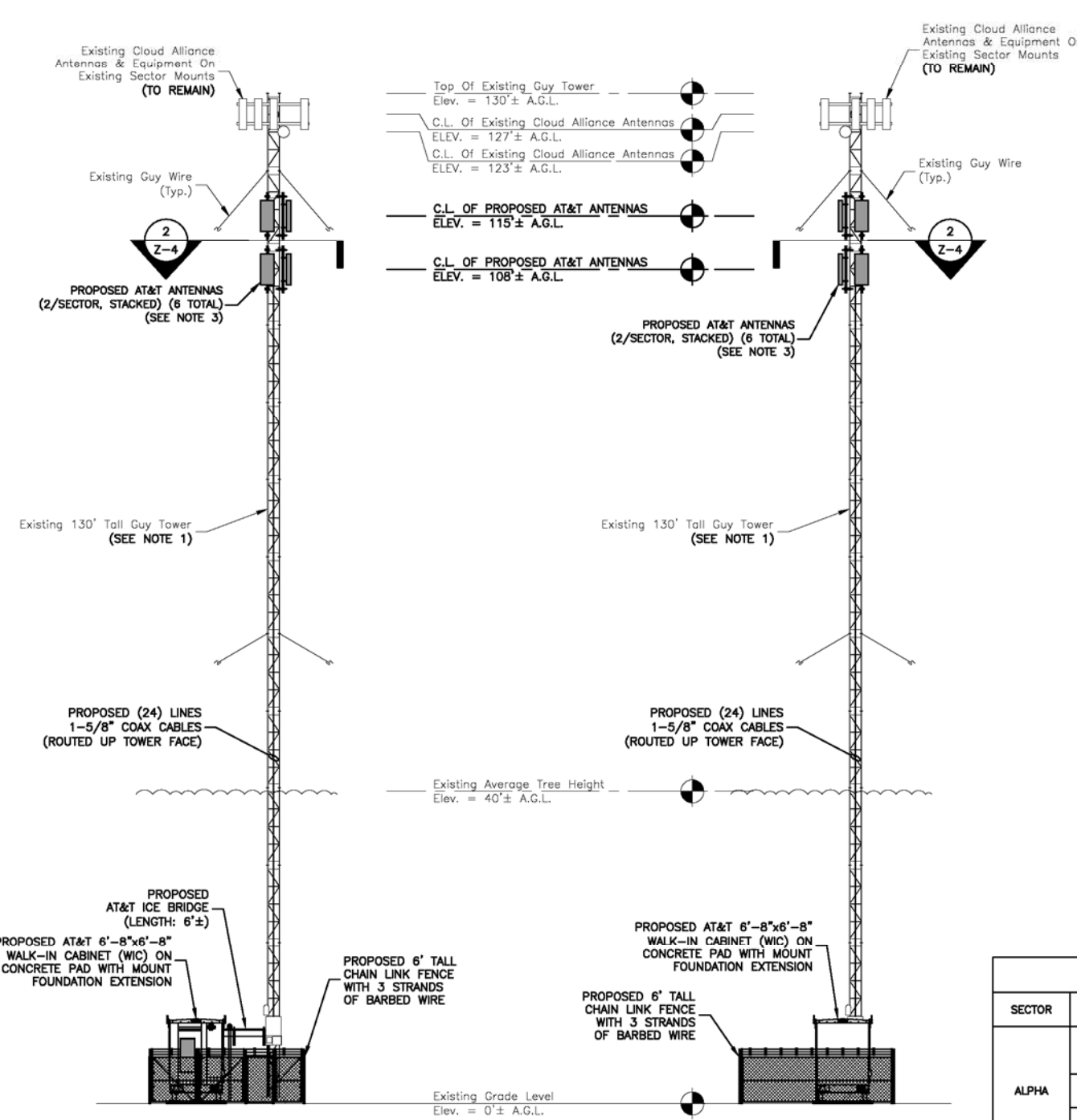
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HARDWICK, VT 05843

SHEET TITLE

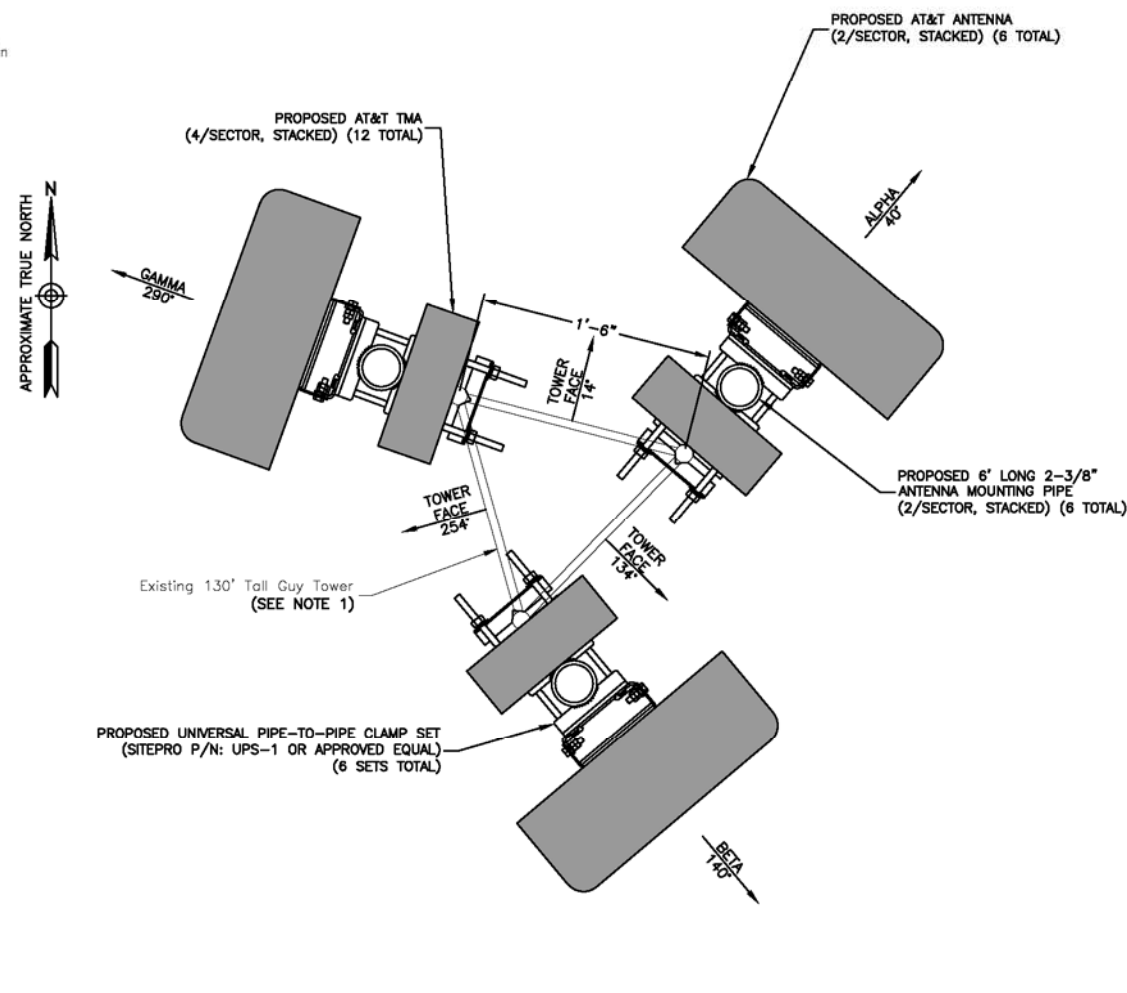
ELEVATIONS, ANTENNA  
ORIENTATION PLAN  
& RF CONFIGURATION

SHEET NUMBER

Z-4



- NOTES:**
- ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, SURGE ARRESTORS, RRU'S, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE PASSING TOWER STRUCTURAL ANALYSIS BY ALL-POINTS TECHNOLOGY CORP. WHICH IS PENDING.
  - ALL SPACING REQUIREMENTS FOR PROPOSED MOUNTS SHALL BE CONFIRMED & SHALL NOT IMPEDE CLIMBING PEGS, TIE OFF FEATURES, OR OTHER SAFETY FEATURES. ALL MOUNTS SHALL MAINTAIN EXISTING/PROPOSED MANUFACTURER REQUIREMENTS & SHALL NOT INTERFERE WITH OTHER RAD CENTERS.
  - VERTICAL ANTENNA SEPARATION REQUIREMENTS:
    - 3'-0" VERTICAL SEPARATION REQUIRED BETWEEN EDGES OF ALL LTE ANTENNAS.
  - ORIENTATION PLAN IS TYPICAL FOR 115' & 108' CENTERLINES.
  - AZIMUTHS BASED ON TRUE NORTH.
  - A.G.L. = ABOVE GRADE LEVEL  
C.L. = CENTER LINE  
(P) = PROPOSED

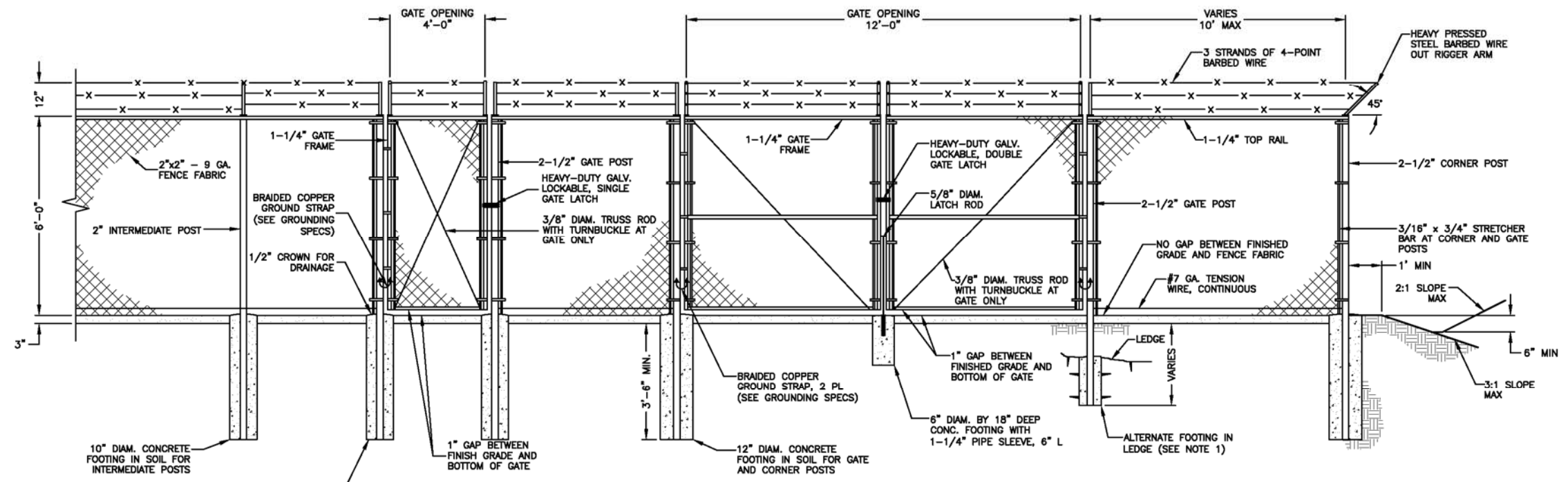


FINAL EQUIPMENT CONFIGURATION								
SECTOR	BAND	ANTENNA	SIZE (INCHES) (LxWxD)	RAD. CENTER	AZIMUTH	RRU (AT GROUND LEVEL)	SIZE (INCHES) (LxWxD)	CABLES
ALPHA	LTE B14/AWS/PCS	(P) OPA65R-BU4DA	48.0x21.0x7.8	115'-0"	40°	(P) LTE 447B B14	15.0x13.2x7.4	(P) 4 LINES 1-5/8" COAX
	-	-	-	-	-	-	-	-
BETA	LTE 850/WCS	(P) DMP65R-BU4DA-K	48.0x20.7x7.7	108'-0"	40°	(P) LTE 447B B5/B50 (P) 8843 B2/B66A	15.0x13.2x7.4 17.9x13.2x11.1	(P) 4 LINES 1-5/8" COAX
	-	-	-	-	-	-	-	-
GAMMA	LTE B14/AWS/PCS	(P) OPA65R-BU4DA	48.0x21.0x7.8	115'-0"	290°	(P) LTE 447B B14	15.0x13.2x7.4	(P) 4 LINES 1-5/8" COAX
	-	-	-	-	-	-	-	-
GAMMA	LTE 850/WCS	(P) DMP65R-BU4DA-K	48.0x20.7x7.7	108'-0"	290°	(P) LTE 447B B5/B50 (P) 8843 B2/B66A	15.0x13.2x7.4 17.9x13.2x11.1	(P) 4 LINES 1-5/8" COAX
	-	-	-	-	-	-	-	-

\*CONTRACTOR TO VERIFY FINAL ANTENNA DESIGN PRIOR TO CONSTRUCTION.

**RF CONFIGURATION** (4)  
SCALE: N.T.S.

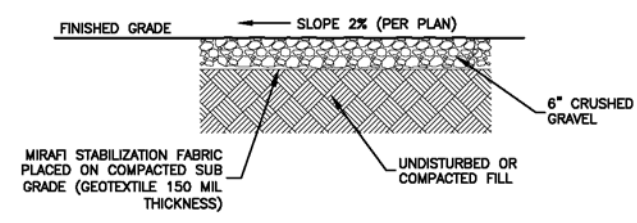




- FENCE NOTES:**
1. ALTERNATE FOOTINGS FOR ALL FENCE POSTS IN LEDGE: IF LEDGE IS ENCOUNTERED AT GRADE, OR AT A DEPTH SHALLOWER THAN 3'-6". CORE DRILL AN 8" DIA HOLE 18" INTO THE LEDGE. CENTER POST IN THE HOLE AND FILL WITH CONCRETE OR GROUT. IF LEDGE IS BELOW FINISHED GRADE, COAT BACKFILLED SECTION OF 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.
  3. INSTALL SWALE AROUND COMPOUND (MIN. DEPTH: 6") TO ALLOW FOR DRAINAGE.

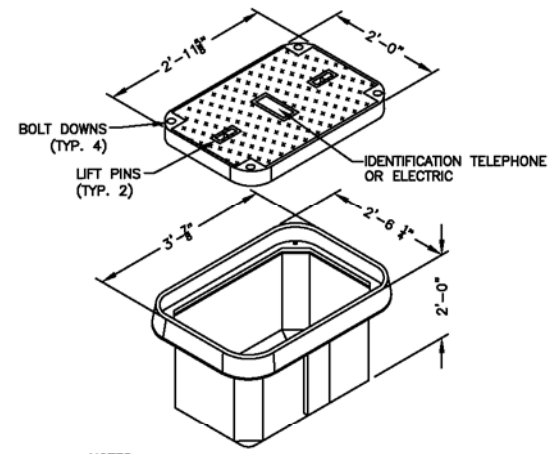
**FENCE AND ACCESS GATE**  
SCALE: N.T.S.

1



**GRAVEL YARD DETAIL**  
SCALE: N.T.S.

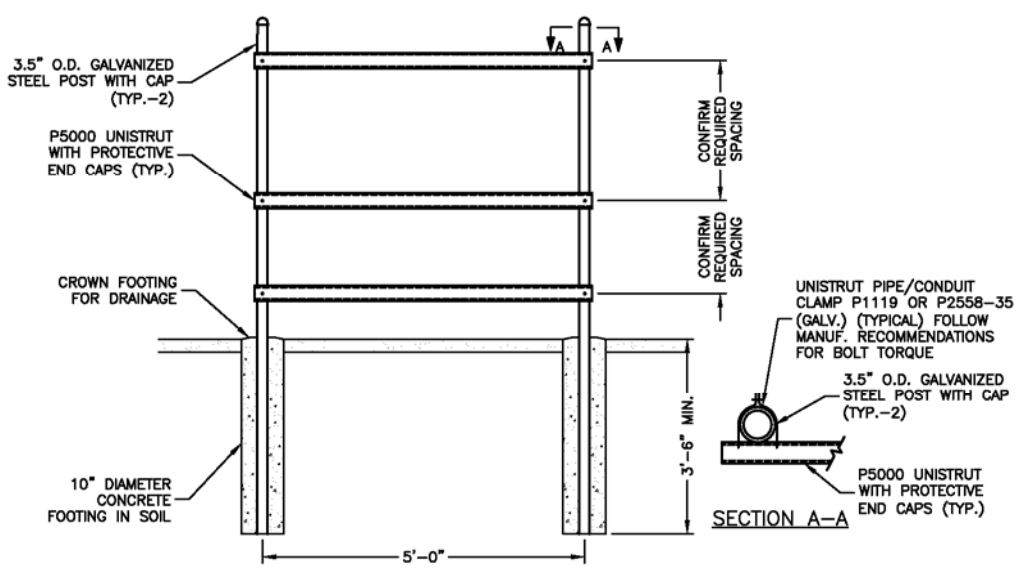
2



- NOTES:**
1. ALL STUB-UP CONDUITS INSIDE PULL BOXES WILL BE 6" FROM TOP OF BOX AND HAVE PULL STRING AND CAPS.
  2. INSTALL HAND HOLE/PULL BOX AS REQUIRED BY N.E.C., SITE CONDITIONS AND LOCAL UTILITY COMPANY'S REQUIREMENTS.

**HAND HOLE/  
PULL BOX DETAIL**  
SCALE: N.T.S.

3



**UTILITY MOUNTING RACK DETAIL**  
SCALE: N.T.S.

4

**HARDWICK  
SITE NO.: VT1061**

ZONING DRAWINGS

O	09/10/21	FOR SUBMITTAL
A	09/09/21	FOR COMMENT

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Dewberry Engineers Inc.  
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1190 HOPKINS HILL ROAD  
HARDWICK, VT 05843

SHEET TITLE	
CONSTRUCTION DETAILS-I	
SHEET NUMBER	



**HARDWICK  
SITE NO.: VT1061**

ZONING DRAWINGS

O	09/10/21	FOR SUBMITTAL
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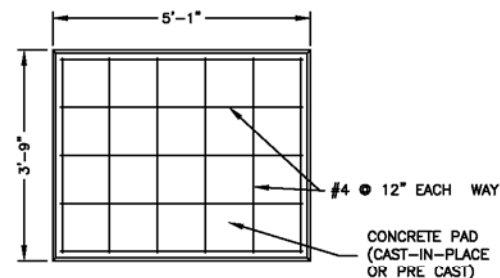
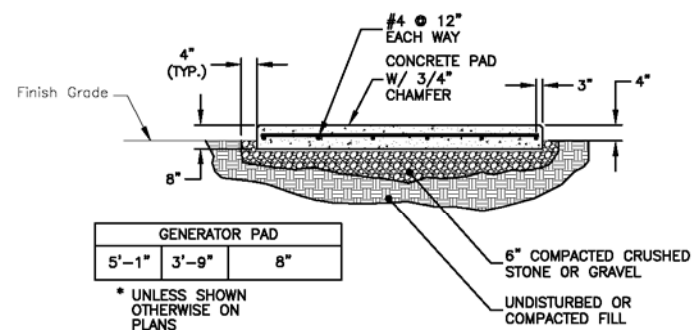
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SHEET TITLE

CONSTRUCTION DETAILS-II

SHEET NUMBER



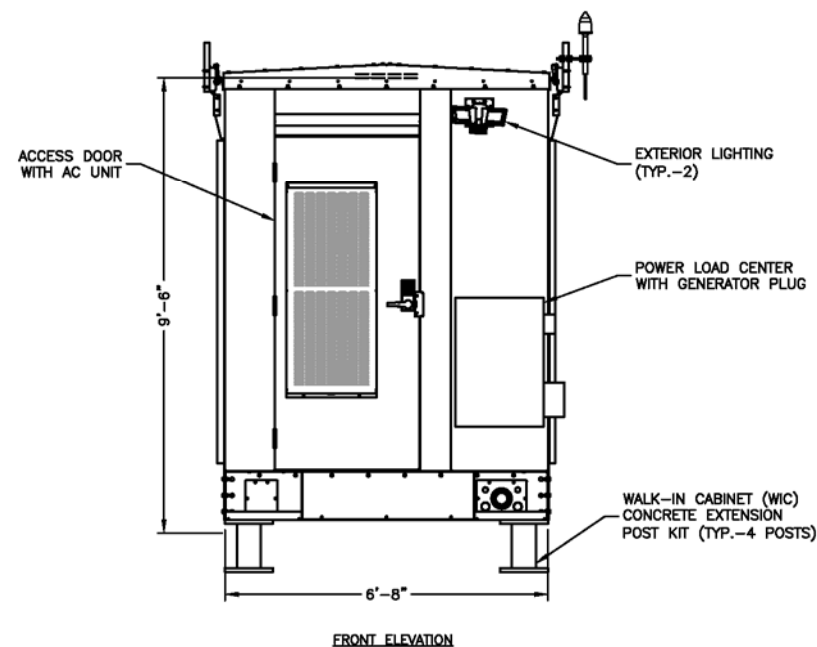
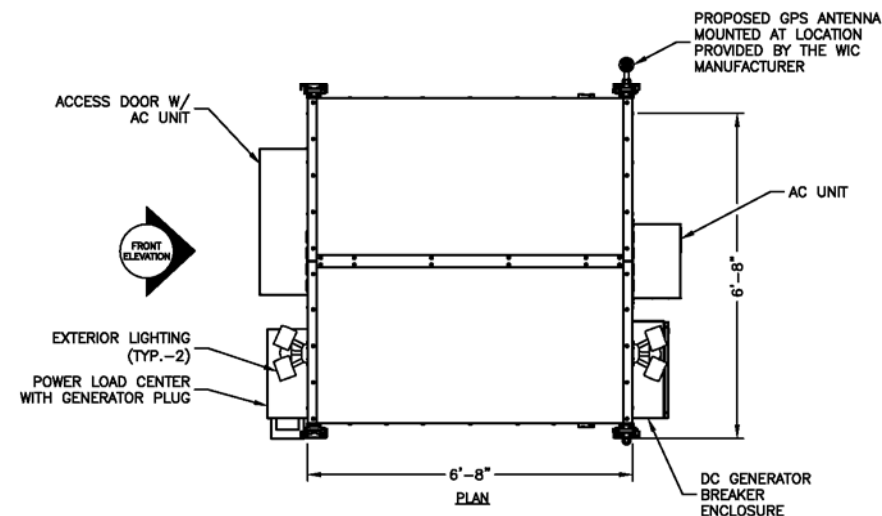
NOTES:

1. USE GALVANIZED HILTI EXPANSION ANCHORS OR, APPROVED EQUAL, FOR EQUIPMENT ANCHORAGE.
2. VERIFY THE SIZE OF THE STAND BY GENERATOR WITH THE SUPPLIER.
3. FOR SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENT, SEE EQUIPMENT VENDOR DRAWINGS.

**OUTDOOR PAD FOR  
MINOR EQUIPMENT**

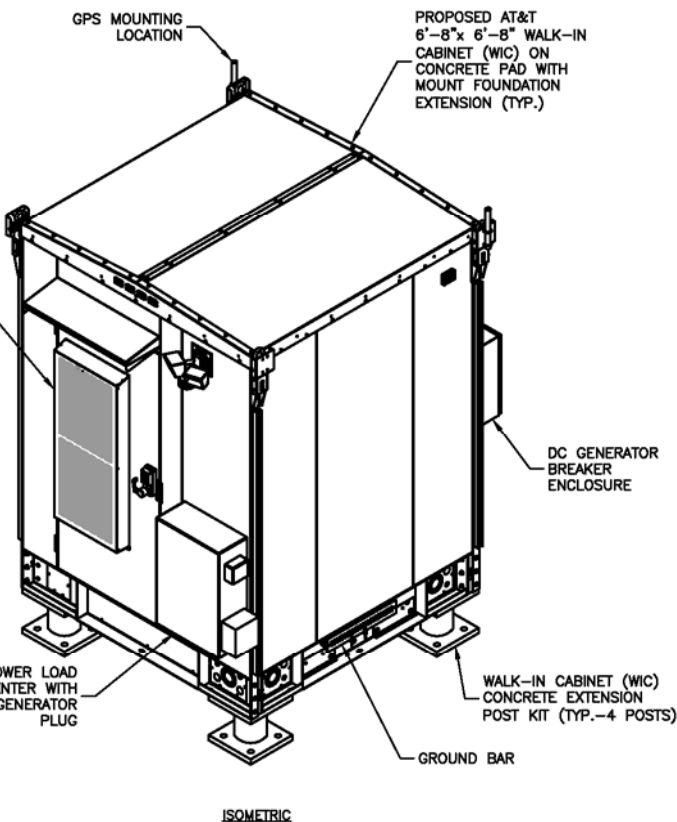
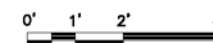
SCALE: N.T.S.

1



**WIC DETAIL**

SCALE: 1/4"=1' FOR 11"x17"  
1/2"=1' FOR 22"x34"



WALK-IN CABINET NOTES:

1. WALK-IN CABINET (WIC) TO BE INSTALLED ACCORDING TO MANUFACTURER RECOMMENDATIONS & SPECIFICATIONS.
2. WIC COMES FULLY ASSEMBLED. CONTRACTOR TO CONFIRM PARTS & HARDWARE PRIOR TO CONSTRUCTION & COORDINATE WITH AT&T CM.
3. CONTRACTOR SHALL MAINTAIN A MAXIMUM 18" CLEARANCE FROM GRADE TO BOTTOM OF WIC TO ACCOMMODATE STAIRS. VERIFY IN FIELD PRIOR TO POST INSTALLATION.

2





550 COCHITUATE ROAD  
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ZONING DRAWINGS

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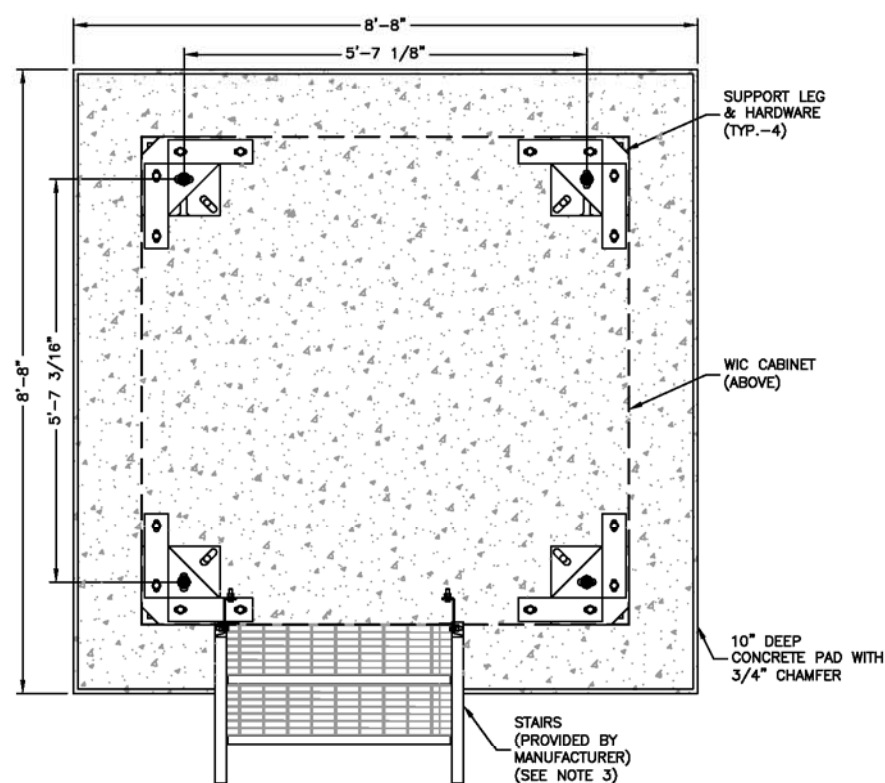
1190 HOPKINS HILL ROAD  
HARDWICK, VT 05843

SHEET TITLE

WIC FOUNDATION  
DETAILS

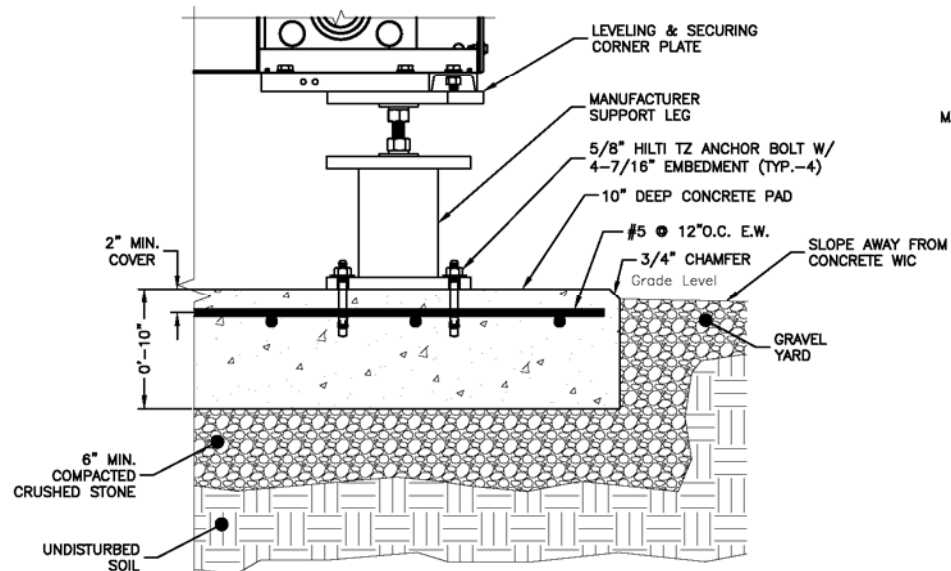
SHEET NUMBER

Z-7



**WIC FOUNDATION DETAIL**

SCALE: 3/8"=1' FOR 11"x17"  
3/4"=1' FOR 22"x34"

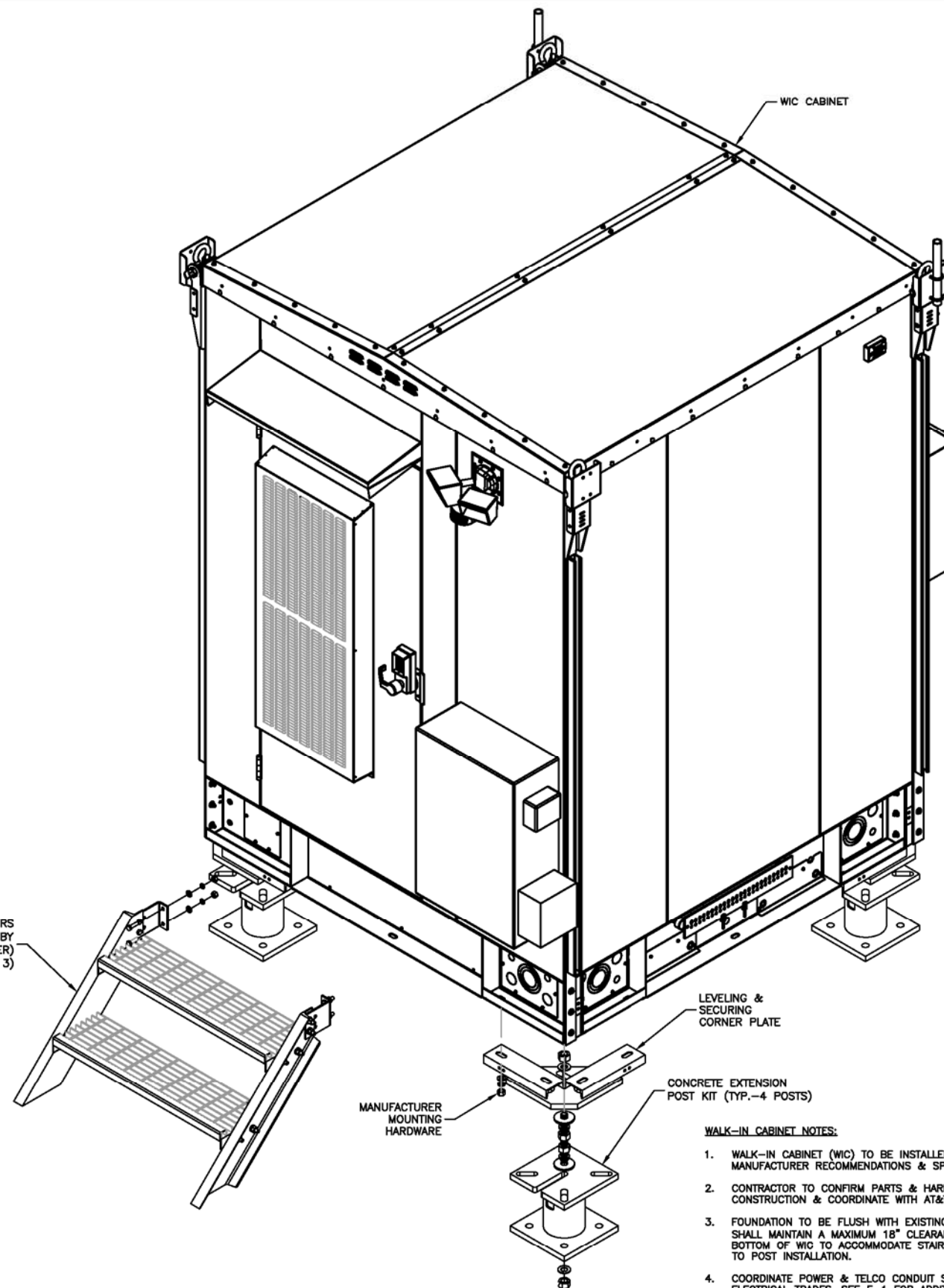


**WIC BASE SECTION**

SCALE: 3/4"=1' FOR 11"x17"  
1 1/2"=1' FOR 22"x34"



STAIRS  
(PROVIDED BY  
MANUFACTURER)  
(SEE NOTE 3)



**WIC ISOMETRIC**

SCALE: N.T.S.

**WALK-IN CABINET NOTES:**

1. WALK-IN CABINET (WIC) TO BE INSTALLED ACCORDING TO MANUFACTURER RECOMMENDATIONS & SPECIFICATIONS.
2. CONTRACTOR TO CONFIRM PARTS & HARDWARE PRIOR TO CONSTRUCTION & COORDINATE WITH AT&T CM.
3. FOUNDATION TO BE FLUSH WITH EXISTING GRADE. CONTRACTOR SHALL MAINTAIN A MAXIMUM 18" CLEARANCE FROM GRADE TO BOTTOM OF WIC TO ACCOMMODATE STAIRS. VERIFY IN FIELD PRIOR TO POST INSTALLATION.
4. COORDINATE POWER & TELCO CONDUIT STUBUP PLACEMENT WITH ELECTRICAL TRADES. SEE E-1 FOR ADDITIONAL INFORMATION.
5. PROVIDE WORKING HVAC AND ELECTRICAL WORKING SPACE CLEARANCES PER MANUFACTURER RECOMMENDATIONS & CODE REQUIREMENTS.
6. WIC DIMENSIONS: 6'-8"W X 6'-8"L X 9'-6" TALL (NO BASE)  
WIC WEIGHT: 5500 LBS. (EMPTY) 7500 LBS. (FULLY INTEGRATED)
7. CONTRACTOR TO PROVIDE AND INSTALL SPECIFIED CONCRETE ANCHORS.
8. SEE SHEET G-1 FOR CONCRETE, REINFORCING STEEL & FOUNDATION NOTES.



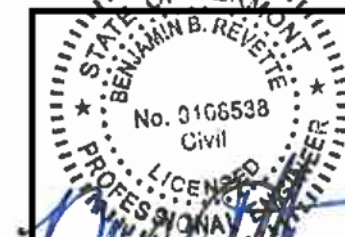
**HARDWICK  
SITE NO.: VT1061**

ZONING DRAWINGS

O	09/10/21	FOR SUBMITTAL
A	09/09/21	FOR COMMENT

**Dewberry®**

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99 SUMMER STREET  
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DRAWN BY: GMT

REVIEWED BY: DAS

CHECKED BY: BBR

PROJECT NUMBER: 50123874

JOB NUMBER: 50123895

SITE ADDRESS

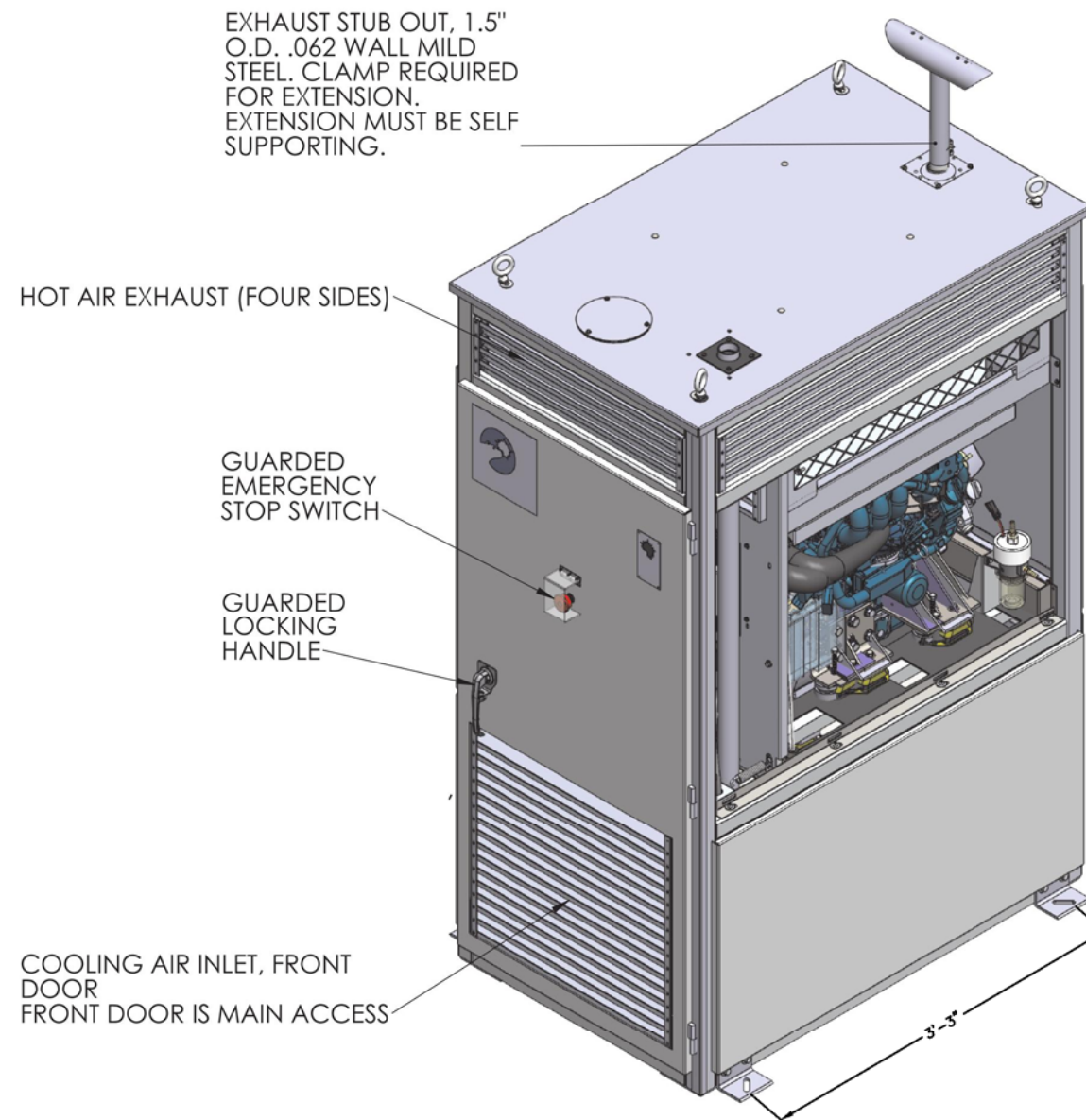
1190 HOPKINS HILL ROAD  
HARDWICK, VT 05843

SHEET TITLE

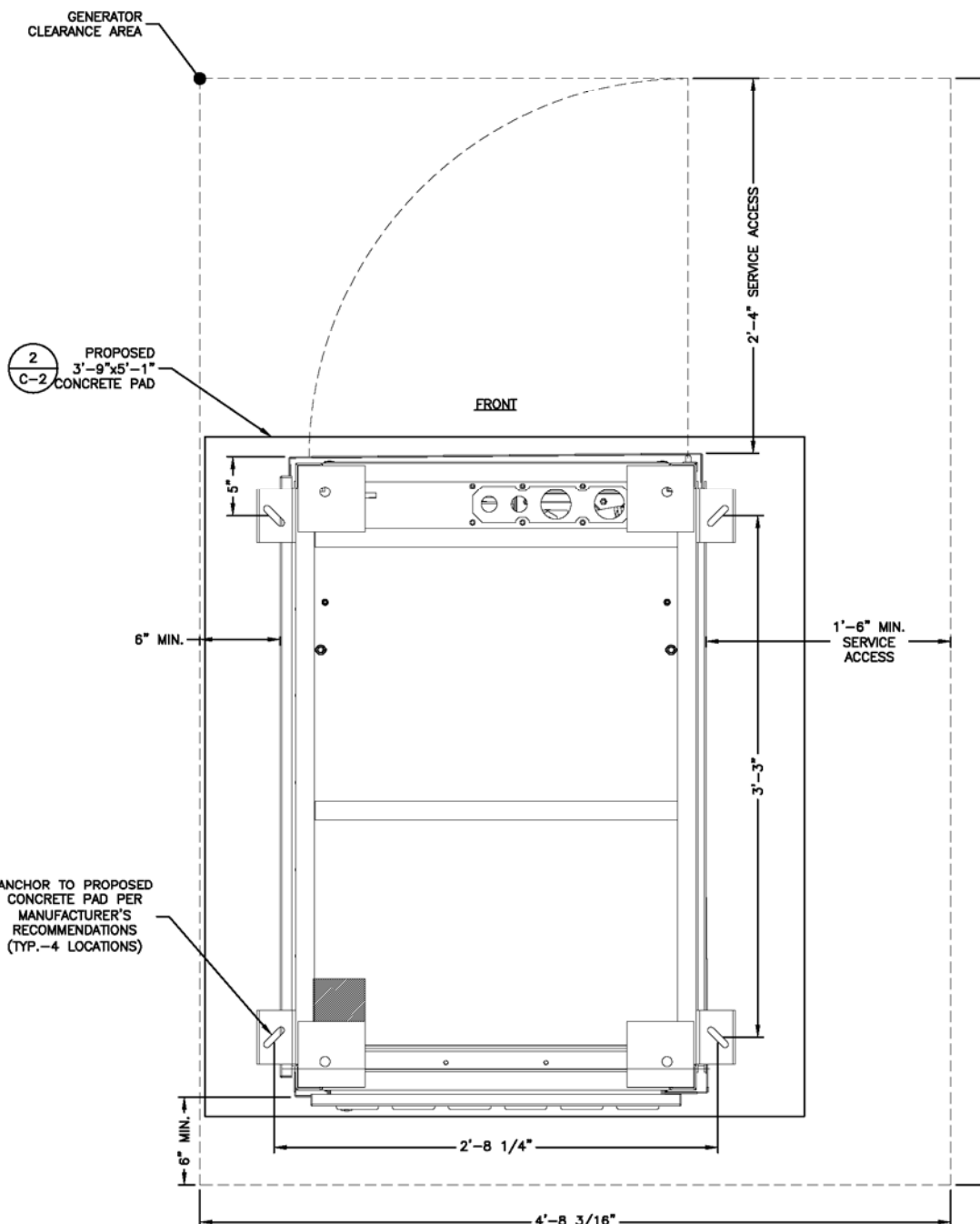
GENERATOR DETAILS

SHEET NUMBER

Z-8



**ISOMETRIC**



**INSTALLATION FOOTPRINT - BOTTOM VIEW**

**GENERATOR NOTES:**

1. DETAILS BASED ON INFORMATION PROVIDED BY POLAR POWER INC.
2. CONFIRM LATEST SPECIFICATIONS PRIOR TO PURCHASE & INSTALLATION.
3. INSTALL PER MANUFACTURER'S RECOMMENDATION.
4. SEE DETAIL 1, SHEET Z-6 FOR PROPOSED CONCRETE PAD DETAIL.

**15KW, 48V DIESEL POLAR DC GENERATOR**  
SCALE: N.T.S.

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