



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

February 7, 2019

Hollis M. Redding
Site Acquisition Manager
Northeast Site Solutions
35 Griffith Road South
Bloomfield, CT 06002

RE: **EM-T-MOBILE-011-180321** - T-Mobile Northeast LLC notice of intent to modify an existing telecommunications facility located at 7 Hoskins Road, Bloomfield, Connecticut

Dear Ms. Redding:

The Connecticut Siting Council (Council) is in receipt of your correspondence dated February 5, 2019 regarding the minor project changes to the above-referenced exempt modification that was acknowledged by the Council on April 16, 2018.

The request to change the approved 7.5-kilowatt propane fueled generator to a proposed 15-kilowatt diesel fueled generator with a 54-gallon double walled base tank, to be placed on a new 4-foot by 8-foot concrete pad within the existing equipment compound, is hereby approved.

This approval applies only to the minor project changes dated February 5, 2019. Any significant changes to the project require advance Council notification and approval.

Thank you for your attention and cooperation.

Sincerely,

Melanie Bachman
Executive Director

MAB/in

c: The Honorable Suzette DeBeatham-Brown, Mayor, Town of Bloomfield
Philip K. Schenck, Jr., Town Manager, Town of Bloomfield
Jose Giner, Director of Planning, Town of Bloomfield
Eversource, Tower and Property Owner



CONNECTICUT SITING COUNCIL

Affirmative Action / Equal Opportunity Employer



NSS

NORTHEAST
SITE SOLUTIONS

Turnkey Wireless Development

Northeast Site Solutions
Hollis M. Redding
420 Main Street, Unit 2
Sturbridge MA 01566
860-834-6964
hollis@northeastsitesolutions.com

February 5, 2019

Ms. Melanie Bachman
Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: **EM-T-MOBILE-011-180321**
7 Hoskins Road, Bloomfield, CT 06002
Latitude: 41.89284000
Longitude: -72.76550600
T-Mobile Site Number: CTHA142G-NSD-CMP2

Dear Ms. Bachman:

T-Mobile Northeast LLC ("T-Mobile") received Connecticut Siting Council approval for an exempt modification on April 16, 2018 allowing T-Mobile to install one (1) IBR 1300 Dish at the 140.6' level of the existing 185'6" lattice tower owned by Eversource. The approval also included the addition of an emergency generator and a new 3x3' pad for supporting propane tank.

T-Mobile subsequently determined the propane generator is no longer available for use and proposes to change the fuel type to diesel. The Polar Power 15kW diesel powered generator w/ a double walled 54-gallon fuel tank would be placed on a new 4'x8' concrete pad adjacent to the existing T-Mobile 10'x20' equipment pad. As shown in the attached generator specification sheets, the fuel tank is fully contained within the bottom of the enclosed generator cabinet behind removable doors. The generator is equipped with a special fuel leak sensor to detect any possible leaks. It is equipped with a spill proof design on the top to contain any possible spills during re-fueling. In case of hose leaks, there are two areas where the fuel will be collected: inside the generator compartment -the tray will hold up to 3.7 gallons and above the main tank-the tray will hold up to 5 gallons of fuel.

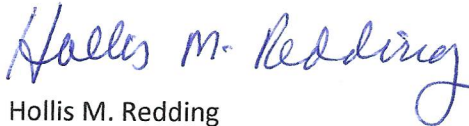
Also attached is a wetlands delineation map from the Wetland & Vernal Pool Evaluation prepared by All-Points Technology, map dated June 18, 2014, which was included as part of the Cellco Partnership d/b/a Verizon Wireless Petition #1112, which shows the location of the proposed tower (which is now existing) and wetland area.

As shown in the above, the small, 54-gallon fuel tank would not impact the nearest wetland area which is 170 feet to the North from the fenced compound. T-Mobile's generator is approximately 75' towards the rear of the compound. T-Mobile is confident this sensitive environmental area will not be impacted by the change in fuel type. No other changes to the April 16, 2018 approval are proposed and no expansion of the compound is required.

T-Mobile respectfully requests administrative approval by the Connecticut Siting Council to change the generator fuel type from propane to diesel. Attached please find revised plans prepared by All-Points Technology, dated January 29, 2019 detailing the generator schematics.

Please let me know if you have any questions or if you need further information. My contact information is below. Thank you for your time and attention to this matter.

Sincerely,



Hollis M. Redding
Site Acquisition Manager
Northeast Site Solutions
Mobile: 860-834-6964
Fax: 413-521-0558
Office: 35 Griffin Road South, Bloomfield, CT 06002
Email: hollis@northeastsitesolutions.com

Attachments

cc: The Honorable Suzette DeBeatham-Brown, Mayor, Town of Bloomfield
Philip K. Schenck, Jr., Town Manager, Town of Bloomfield
Jose Giner, Director of Planning, Town of Bloomfield
Chris Gelinis, Eversource Real Estate - Tower & Property owner

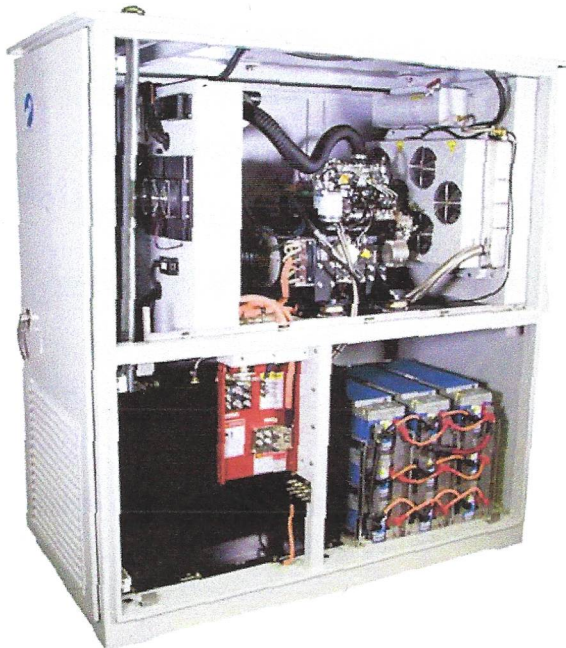
CUTOVER APU/BATTERY REPLACEMENT PROGRAM

All APUs include:

- 16 V Supercapacitor starter
- 54 gal. UL142 rated double walled diesel tank with fuel level sensor
- Ethernet module with SNMP
- Powder coated steel enclosure
- V-belt driven radiator fan
- Standard 2 Year Warranty

Options available:

- Additional 5 year warranty
- Transitional supercap energy storage bank
- Electric radiator fans
- All-weather aluminum enclosure
- Level 2 sound enclosure
- 8-alarm relay board
- Oil refining kit

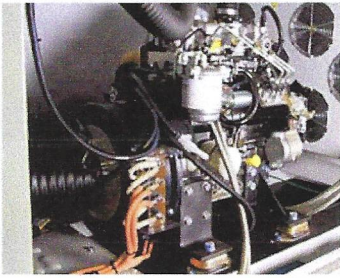


Founded in 1979 Polar Power specialized in solar photovoltaic systems, solar air conditioning and refrigeration. We developed and provided photovoltaic charging controls for telecommunications in the 1980s along with DC generators for the military. In 1994 we were first to provide DC generators with remote control and monitoring to the telecommunications industry.

Polar's success is based on engineering generators to meet the very specific needs of each application. Telecom site optimization is best met with the DC generator technology as the loads and batteries are DC. It makes no sense to install an AC generator and convert the output to DC. The AC generators are designed for a wide range of applications and they are not specifically produced for telecom applications so there are issues with reliability, space, and fuel efficiency.

Polar can save you considerable time and cost in permitting, installing, purchasing, and maintaining a backup generator. We reduce CAPEX and OPEX costs while improving backup reliability.

DC Generator



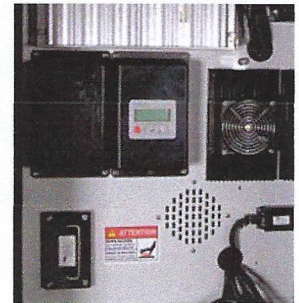
Starting supercap



Easy Service wiring harness



Supra controller



H - 74"

W - 68"

L - 34"

UL 142 rated 54 gallon fuel tank

Optional transition supercap energy storage



LOW MAINTENANCE.

LOW ACOUSTIC NOISE. <66 dBA @ 7 meters for diesel, and low vibration so as not to disturb the local residents or building landlords.

CORROSION RESISTANT. All-aluminum enclosure with stainless hardware for low maintenance, and long service life.

FUEL EFFICIENT. Up to 85% fuel savings due to smaller engine displacement, high efficiency alternator, and variable speed operation.

RODENT RESISTANT. Small animals can quickly destroy a generator set by gnawing on wires, fuel lines, radiator hoses, etc. Cooling air inlets and outlets have perforated aluminum screens to keep small rodents and large insects out. Stainless steel wire braid is placed over fuel and radiator lines to prevent damage.

SUPERCAPACITOR STARTER. Failure to start is the number one problem plaguing generator reliability and typically this is caused by a bad starting battery. Polar unique design has replaced the starting battery with a Super Capacitor. Capacitors are more reliable and last longer than batteries (10-15 year life).

LONG LIFE. Controls and wire harnesses are designed to exceed a 20 year life. Higher grade, longer life electrical wire (UL 3173), weather tight connectors, gold plated connector pins on signal circuits. No transfer switches are required.

ADVANCED MONITORING. Remote diagnostics, control, and monitoring. Ethernet and RS232 standard, with optional SNMP.

SPECIFICATIONS

Engine

Engine Model	Perkins 403F-11
Cylinders	3 In-line
Displacement (L)	1.1
Bore (in./mm)	3/77
Stroke (in./mm)	3.2/81
Intake Air System	Naturally Aspirated
Engine HP	18
Emissions Compliance	EPA and CARB Certified
Variable RPM	2300 to 2800

Engine lubrication system

Oil Filter Type	Full flow spin-on canister
Oil Capacity	4.4 L
Oil Pressure Switch	Yes
Oil Pressure Transducer	Optional

Diesel fuel system

Type	Diesel
Fuel Pump Type	Electrical
Injector Type	Mechanical
Fuel Filtering	Paper element

Engine cooling system

Type	Pressurized Aluminum Radiator
Water Pump	Belt-driven, Pre-lubed, self-sealing
Fan Type	Belt-driven
Airflow CFM	1300
Fan Mode	Pusher
Temperature Sensor	Yes

Environmental

Operating Temperature (°C/°F)	-23 to 50 / -10 to 122
Operating Humidity %	100
Cold Start Aids	Glow Plugs

Optional: manifold heater available for temperatures < -10F

Power adjustment for conditions

Temperature Deration	1% derate for every 5.6 °C (10 °F) above 25 °C (77 °F)
Altitude Deration	3% derate for every 300 m (1000 ft) above 91 m (300 ft)

Fuel tank

UL Rated Capacity (gal/L)	54/204
Run Time (hrs)	50 to 60
Tank Alarms	Yes
Visual Gages	Yes
Catch Basin (gal/L)	5/19
Listings	UL 142 (double wall)

Engine cooling

System coolant capacity (gal/L)	2.2/8.3
Maximum operation air temperature on radiator (°C/°F)	50/122
Maximum ambient temperature (°C/°F)	50/122

Exhaust

Exhaust flow at rated output (cfm/cmm)	110/3.11
Exhaust temperature at rated output (°C/°F)	400/752

Alternator

Alternator Model	8220
Type	Permanent Magnets, NdFeB
Weight (lb/kg)	46.5/21
Regulation Type	Variable engine speed
Stator	3 phase/32 poles
Overcurrent Protection (A)	15 kW - 500
Disconnect Means	Pull fuse block or Circuit breaker
Voltage Range (VDC)	44 to 62
Alternator Exhaust Flow (cfm/cmm)	130 to 180 / 3.68 to 5.1
MTBF (hr)	100,000+

Starter supercapacitor

Model	20-16-0001
Storage Rating (Farads)	500
Voltage (VDC)	13-14.4
Weight (lb/kg)	12.1/5.5
Operating Temperature (°C/°F)	-40 to 65 / -40 to 149
Service Life (year)	10 to 15

Charger

Model	00-10-0015
Input Voltage (VDC)	28 to 60
Output Voltage (VDC)	14 to 14.4
Recharge time from 0 VDC (min)	10
Recharge time from 8 VDC (min)	2
Weight (lb/kg)	2.2/1

Enclosure

Model	88-25-0800
Type	Weather Protective
Materials	Powder coated steel
Door Hardware	Three Point with Padlock Hasp, and Removable Side Panels
Mounting	Secure Mounting Tabs
Dims.	L 34" x W 68" x H 74"

Optional: L2 option

Optional: Aluminum build

Transition supercapacitor (optional)

Model	20-16-0003
Storage Rating (Farads)	130
Stored Energy (Wh)	57
Voltage (VDC)	56 to 62
Connected in parallel	up to 9
Weight (lb/kg)	39.7/18
Operating Temperature (°C/°F)	-40 to 40 / -40 to 104
Service Life (year)	10 to 15

Controller features

Controller Type.....	Supra Model 250
4-Line Plain Text OLED Display.....	Simple user interface for ease of operation
Engine Run Hours Indication.....	Standard
Programmable Start Delay.....	Standard
Run/Alarm/Maintenance Logs.....	Standard
Engine Start Sequence.....	Cyclic cranking: 5 sec on, 45 sec rest (3 attempts maximum)
Starter Supercapacitor Charger.....	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection.....	Standard
Automatic Low Oil Pressure/High Oil Temperature Shutdown.....	Standard
Overcrank/Overspeed.....	Standard
Automatic High Engine Temperature Shutdown.....	Standard
Field Upgradeable Firmware.....	Standard
Glow Plug Delay	Automatic With Temperature
Engine Start Delay.....	Adjustable, Set at 60 sec
Return to Utility Delay.....	Adjustable, Set at 60 sec
Engine Cool-down.....	Adjustable, Set at 60 sec
Exerciser.....	Programmable

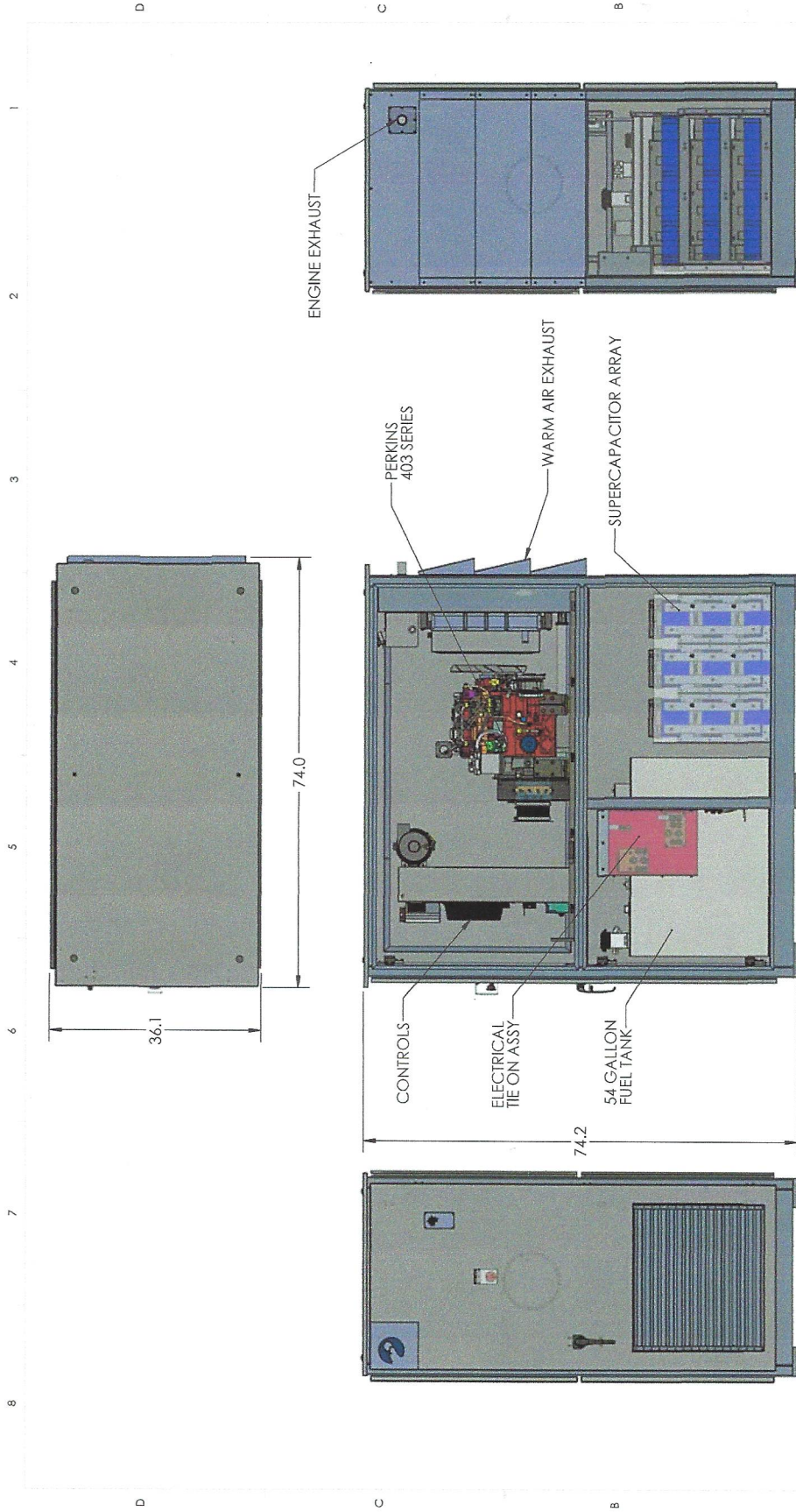
Monitoring

Alarm monitoring and remote control through Ethernet.

Contact closure alarm board (optional)

Shutdown Alarm.....	Optional
Warning Alarm.....	Optional
Engine Run.....	Optional
Low Diesel Fuel Level.....	Optional
Diesel Fuel Leak.....	Optional
E-Stop Depressed.....	Optional
Fuel Level Over 90%.....	Optional

DRAWING



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES SIZE X.XXXXXX SIZE/16 CHECKED		CAD GENERATED DRAWING DO NOT MANUALLY UPDATE APPROVALS DATE DRAWN 6/7/17 CHECKED		POLAR POWER INC. 249 E. GARDENA BLVD, GARDENA, CA 90248	
MATERIAL		FINISH		TITLE: Generator-Tank Enclosure, Summit	
USED ON		MFG APPR.		SIZE DWG. NO. B 88-25-0606	
APPLICATION		G.A.		REV A	
NEW ASSY		DO NOT SCALE DRAWING		SCALE: 1:16 WEIGHT: SHEET 2 OF 2	
COMMENTS:					
PROPERTY AND CONFIDENTIAL INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF POLAR POWER INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF POLAR POWER INC. IS PROHIBITED.					
INITIAL RELEASE	BY	DATE	DESCRIPTION	REV	

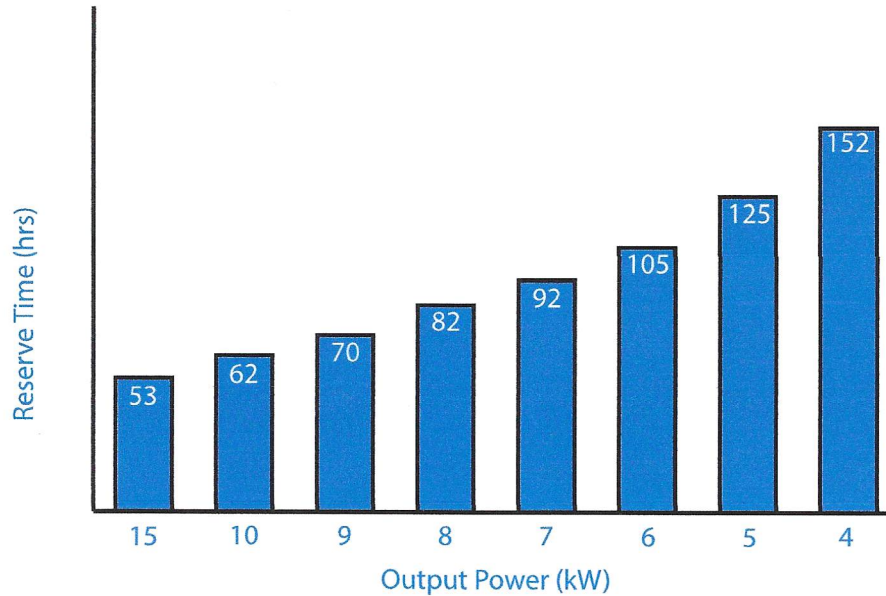
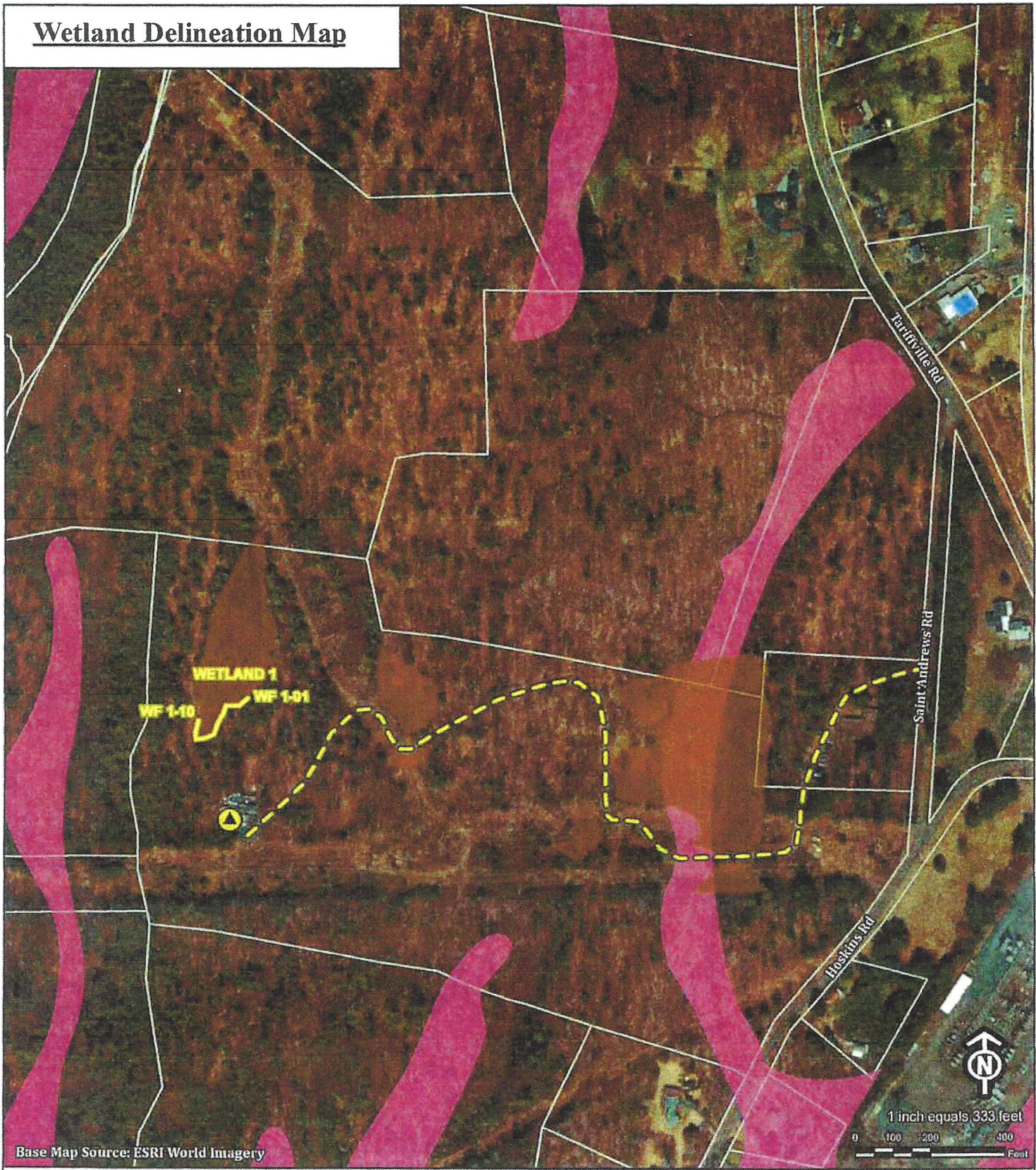
Reserve Time for Backup Generator using standard 54 gallons tank


Figure 26 - Reserve Time for Backup Generator

Diesel Generator Environmental Considerations

- 1) Double walled, 54 gallon tank to allow for 72 hr. backup time
- 2) Fuel Tank complies with UL 142
- 3) Special fuel leak sensor placed between the tank walls in order to detect any possible leaks
- 4) The tank is equipped with spill proof design on the top of the tank to contain possible spills during re-fueling.
- 5) Ultra-low permeability rubber hoses, designed specifically to withstand high corrosive fuels.
- 6) The fuel hoses are inside of Stainless Steel braids, for additional protection
- 7) In case of possible hose leaks after or before the fuel boost pump, the generator will shut down due to lack of fuel once the fuel in the small fuel filter/separator tank is burned.
- 8) In the case of hose leaks there are two areas where the fuel will be collected:
 - Inside generator compartment- tray will hold up to 3.7 gallons of fuel
 - Above the main tank – the tray will hold up to 5 gallons of fuel

Wetland Delineation Map



Base Map Source: ESRI World Imagery

- Legend**
- Proposed Tower Location
 - Existing Paved Access
 - APT Delineated Wetland Boundary
 - Approximate Wetland Area
 - CTDEEP Parcel (updated 8/10)
 - CT DEEP Mapped Wetland

Proposed Verizon Tarrifville Relo Facility
St. Andrews Road
Bloomfield, Connecticut

Wednesday, June 18, 2014



T-Mobile

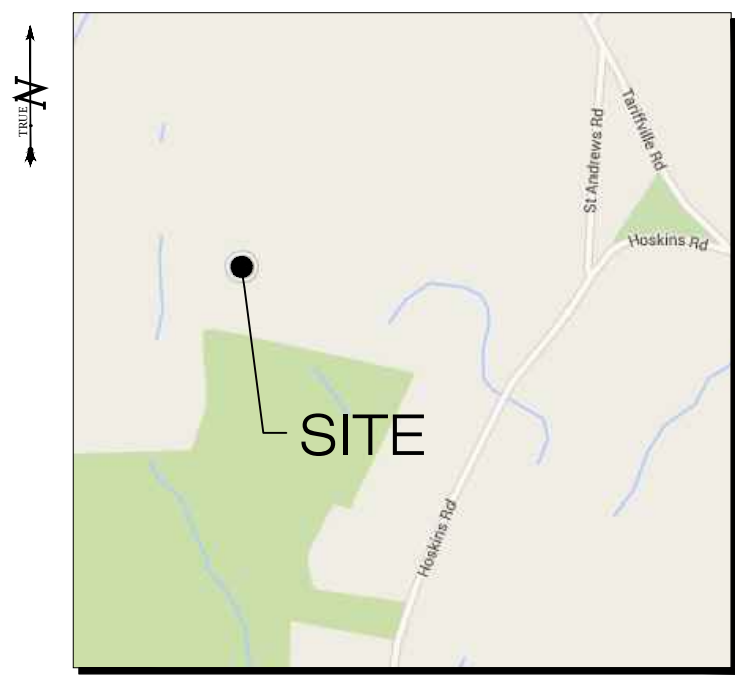
NORTHEAST, LLC.

NEW SITE DEVELOPMENT (NSD)

"EVERSOURCE"

CTHA142G

7 HOSKINS ROAD
BLOOMFIELD, CT 06002



VICINITY MAP
SCALE: 1" = 500'

DRAWING INDEX

- T-1 TITLE SHEET & INDEX
- SP-1 SITE PLAN
- A-1 COMPOUND PLAN & ELEVATION
- A-2 ANTENNA & EQUIPMENT DETAILS
- E-1 ELECTRICAL/TELCO PLAN & DETAILS

SITE INFORMATION

T-MOBILE SITE NAME: "EVERSOURCE"
T-MOBILE SITE NUMBER: CTHA142G
SITE ADDRESS: 7 HOSKINS ROAD,
BLOOMFIELD, CT 06002

SITE TYPE/DESCRIPTION: INSTALL (1) NEW MICROWAVE ANTENNA &
ASSOCIATED CABLING ON EXIST. MOUNT. IN
ADDITION, INSTALL NEW GENERATOR ON NEW
CONCRETE PAD.

PROPERTY OWNER: EVERSOURCE
P.O. BOX 270
HARTFORD, CT 06141

LEASING CONTACT: MATTHEW BANDLE
(508) 642-8801

CONSTRUCTION CONTACT: KEITH BALSEWICZ
(860) 733-2880

ENGINEER CONTACT: ROBERT BURNS
(860) 663-1697 x206

LATITUDE: 41°53'33.4795"N
LONGITUDE: 72°45'56.5386"W
ELEVATION: 408'± AMSL
MAP: 637
LOT: 1117
MUNICIPALITY: BLOOMFIELD
ZONING DISTRICT: R-80

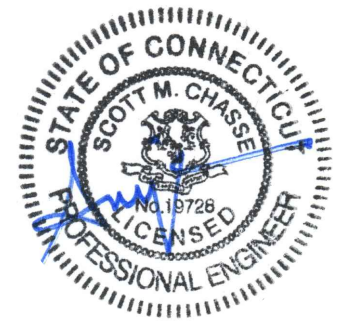
APPLICANT: T-MOBILE
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

POWER PROVIDER: EVERSOURCE (800) 286-2000

TELCO PROVIDER: FRONTIER: (800)-921-8102

CALL BEFORE YOU DIG: 811

CODE COMPLIANCE INFORMATION: STATE OF CONNECTICUT BUILDING CODE, LATEST EDITION
ANSI/TIA-222-G
NATIONAL ELECTRIC CODE, LATEST EDITION



ALL-POINTS
TECHNOLOGY CORPORATION
3 SADDLEBROOK DRIVE PHONE: (860)-663-1697
KILLINGWORTH, CT 06419 FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

T-Mobile
NORTHEAST, LLC.
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100

NSS
NORTHEAST
SITE SOLUTIONS

APPROVALS

LANDLORD:	DATE:
RF ENGINEER:	DATE:
CONSTRUCTION:	DATE:
OPERATIONS:	DATE:
SITE ACQ.:	DATE:

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	12/09/16	FOR REVIEW: RCB
1	03/21/17	FOR REVIEW: RCB
2	10/03/17	CLIENT REVISIONS: RCB
3	02/14/18	CLIENT REVISIONS: RCB
4	12/13/18	GENERATOR ADDITION: JRM
5	01/29/19	GENERATOR REVISION: JRM
6		

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

NOTE:

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T-MOBILE
"EVERSOURCE"

SITE	7 HOSKINS ROAD, BLOOMFIELD, CT 06002
APT FILING NUMBER:	CT409140
SITE NUMBER:	CTHA142G
DRAWN BY:	CSH
CHECKED BY:	RCB
DATE:	12/09/16

CONFIGURATION

707B

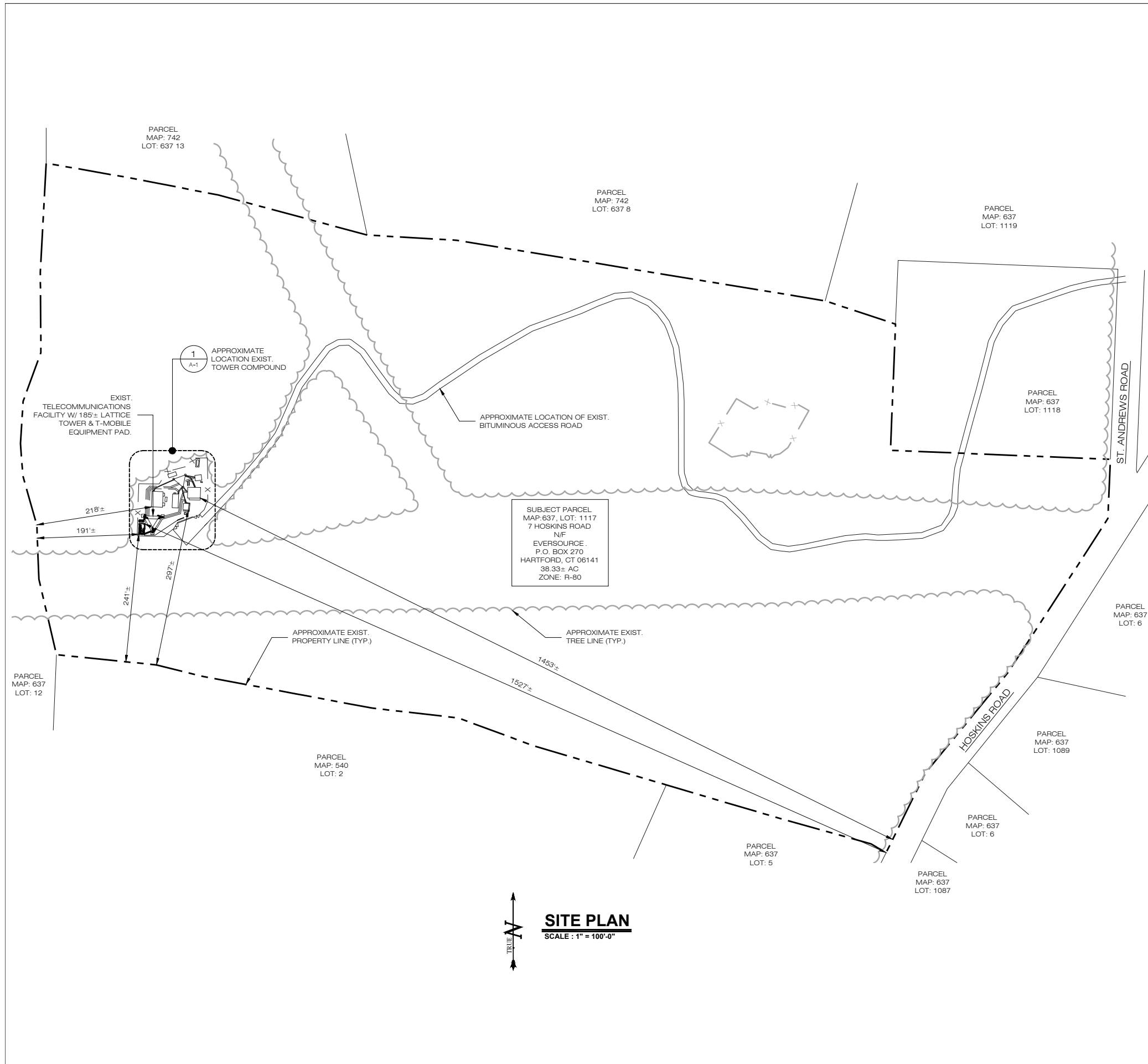
REFER TO LATEST T-MOBILE RF DATA SHEET FOR FINAL RF DESIGN & BOM.

SHEET TITLE:

TITLE SHEET & INDEX

SHEET NUMBER:

T-1



SUBJECT PARCEL
 MAP: 637, LOT: 1117
 7 HOSKINS ROAD
 NF
 EVERSOURCE
 P.O. BOX 270
 HARTFORD, CT 06141
 38.33± AC
 ZONE: R-80

SITE PLAN
 SCALE: 1" = 100'-0"

BULK TABLE			
BLOOMFIELD: 7 HOSKINS ROAD BLOOMFIELD, CT 06002 MAP 637 LOT 1117 ZONED R-80			
ITEM:	ALLOWABLE:	EXISTING:	NEW:
MIN. LOT AREA (SF)	80,000 (1.84 AC.)	1,669,655 (38.33 AC.)	NC
MIN. FRONT YARD (FT)	50	1,453±	NC
MIN. SIDE YARD (EACH) (FT)	35	297±	241±
MIN. REAR YARD (FT)	50	218±	191±
MAX. BUILDING HEIGHT (FT)/STORIES	35/2	12/1	NC
MAX. BUILDING COVERAGE (%)	15.0	0.1	NC
MIN. LOT WIDTH (FT.)	200	723	NC

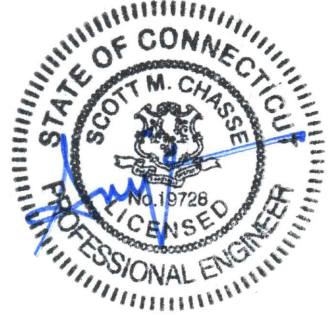
NA = NOT APPLICABLE NC = NO CHANGE

SITE PLAN NOTES:

PROPERTY OWNER: EVERSOURCE
P.O. BOX 270
HARTFORD, CT 06141

- NEW USE: INSTALLATION OF PERSONAL WIRELESS SERVICES FACILITY ON EXISTING 185± AGL LATTICE TOWER W/ NEW GROUND EQUIPMENT AT THE BASE OF THE TOWER;
- BOUNDARY, SITE & TOPOGRAPHIC INFORMATION TAKEN FROM TOWN OF BLOOMFIELD GEOGRAPHIC INFORMATION SYSTEMS AND CONNECTICUT ENVIRONMENTAL CONDITIONS ONLINE AND SUPPLEMENTED WITH FIELD MEASUREMENTS.
- NO ADDITIONAL PARKING IS NEEDED, AS THE NEW GROUND FACILITY INSTALLATION IS UNMANNED & VISITED APPROXIMATELY ONCE/MONTH FOR ROUTINE MAINTENANCE. ACCORDINGLY, THE NEW DEVELOPMENT WILL NOT ADVERSELY CHANGE OR AFFECT TRAFFIC PATTERNS;
- SUBJECT FACILITY ON-SITE IS LOCATED WITHIN ZONE X FLOOD ZONE DESIGNATION (FIRM FLOOD INSURANCE RATE MAP #09003C0194F).
- NEW EQUIPMENT SPACE WILL BE OUTFITTED WITH TWO 150W EXTERIOR LIGHT W/ MOTION DETECTOR (RAB H101B)
- NO STORM/WATER DRAINAGE, WATER SUPPLY, SEWAGE DISPOSAL, REFUSE STORAGE, IS REQUIRED, AS THE NEW INSTALLATION IS FOR AN UNMANNED FACILITY;
- ALL NEW UTILITIES FOR NEW EQUIPMENT WILL BE PROVIDED FROM NEARBY SERVICES CURRENTLY SERVICING THE SITE; CONNECTIONS TO SHALL BE DETERMINED BY A LOCAL UTILITY REPRESENTATIVE.
- NO DUST, FUMES, ODORS, OR VIBRATIONS WILL OCCUR AS A RESULT OF THE NEW INSTALLATION.

LEGEND	
CONCRETE CURB	UTILITY POLE
DROP CURB	BOLLARD
WALL	CHAIN LINK FENCE
EDGE OF PAVEMENT	STOCKADE FENCE
OVERHEAD WIRES	FENCE OTHER
STRUCTURE - MANHOLE	TOP/BOTTOM OF CURB
STRUCTURE - TELEPHONE	SPOT ELEVATION
STRUCTURE - DRAINAGE	CONCRETE
WATER VALVE	TREE LINE
WATER METER	MONUMENT
FIRE HYDRANT	HEDGE
DRAINAGE INLET	TREE
SIGN	HANDICAP PARKING
LIGHT POLE	PARKING STALL COUNT



ALL-POINTS TECHNOLOGY CORPORATION
 3 SADDLEBROOK DRIVE PHONE: (860)-663-1697
 KILLINGWORTH, CT 06419 FAX: (860)-663-0935
 WWW.ALLPOINTSTECH.COM

T-Mobile NORTHEAST, LLC.
 35 GRIFFIN ROAD
 BLOOMFIELD, CT 06002
 OFFICE: (860)-692-7100



APPROVALS

LANDLORD: _____ DATE: _____

RF ENGINEER: _____ DATE: _____

CONSTRUCTION: _____ DATE: _____

OPERATIONS: _____ DATE: _____

SITE ACC.: _____ DATE: _____

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
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6		

DESIGN PROFESSIONALS OF RECORD

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 COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
 ADD: 3 SADDLEBROOK DRIVE
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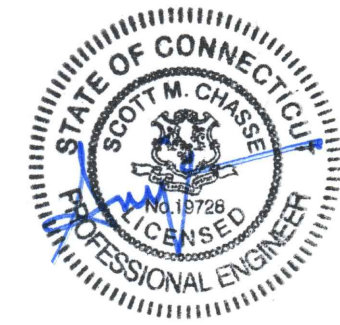
T-MOBILE "EVERSOURCE"
 SITE 7 HOSKINS ROAD,
 ADDRESS: BLOOMFIELD, CT 06002
 APT FILING NUMBER: CT409140
 SITE NUMBER: CTHA142G

DRAWN BY: CSH CHECKED BY: RCB
 DATE: 12/09/16

CONFIGURATION
707B
 REFER TO LATEST T-MOBILE RF DATA SHEET FOR FINAL RF DESIGN & BOM.

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
SP-1



ALL-POINTS
TECHNOLOGY CORPORATION
3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419
PHONE: (860)-663-1697 FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

T-Mobile
NORTHEAST, LLC.

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100



APPROVALS

LANDLORD: _____ DATE: _____
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SITE ACC.: _____ DATE: _____

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	12/09/16	FOR REVIEW: RCB
1	03/21/17	FOR REVIEW: RCB
2	10/03/17	CLIENT REVISIONS: RCB
3	02/14/18	CLIENT REVISIONS: RCB
4	12/13/18	GENERATOR ADDITION: JRM
5	01/29/19	GENERATOR REVISION: JRM
6		

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419

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T-MOBILE "EVERSOURCE"

SITE 7 HOSKINS ROAD,
ADDRESS: BLOOMFIELD, CT 06002

APT FILING NUMBER: CT409140
SITE NUMBER: CTHA142G

DRAWN BY: CSH CHECKED BY: RCB
DATE: 12/09/16

CONFIGURATION

707B

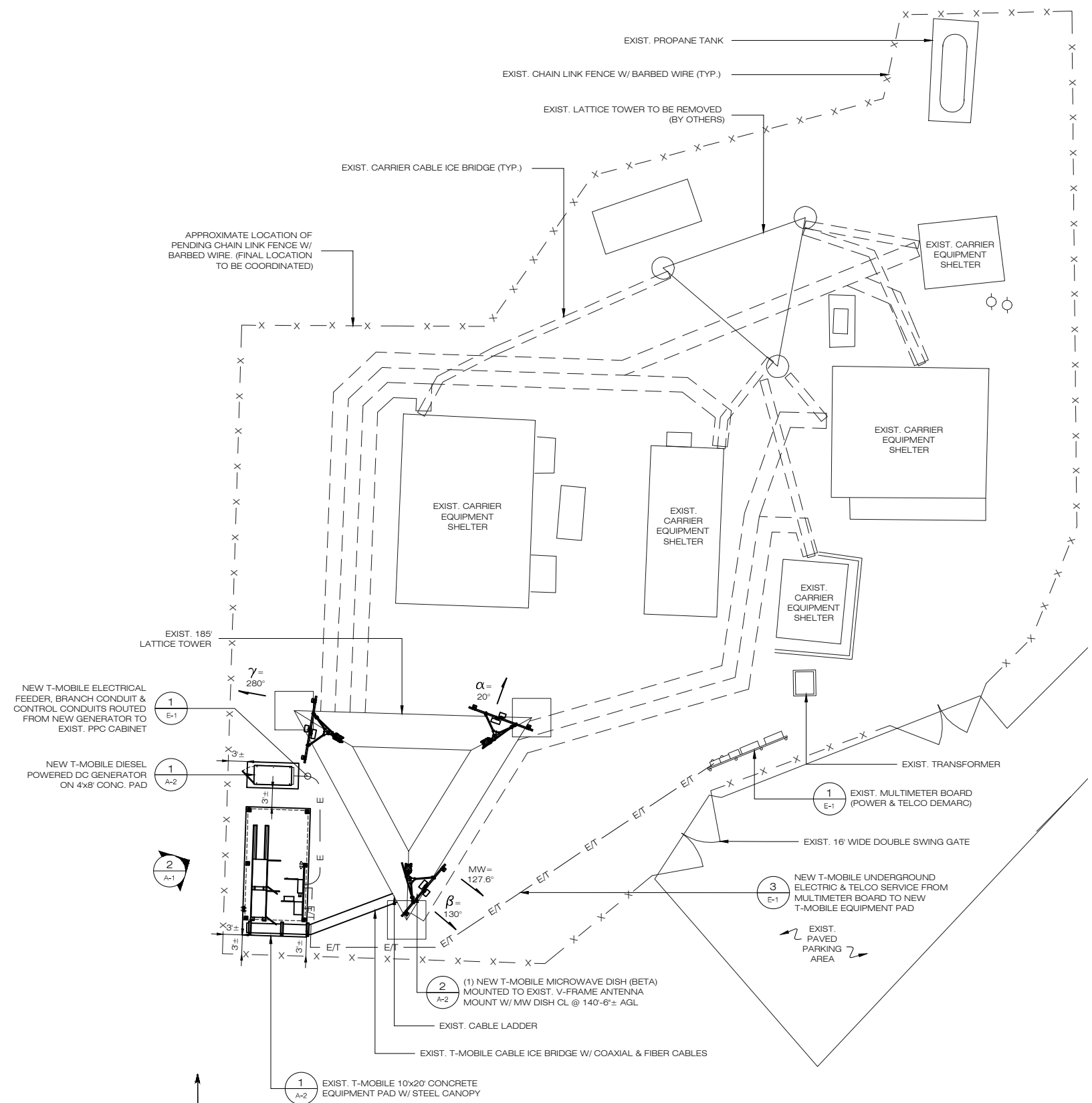
REFER TO LATEST T-MOBILE RF DATA SHEET FOR FINAL RF DESIGN & BOM.

SHEET TITLE:

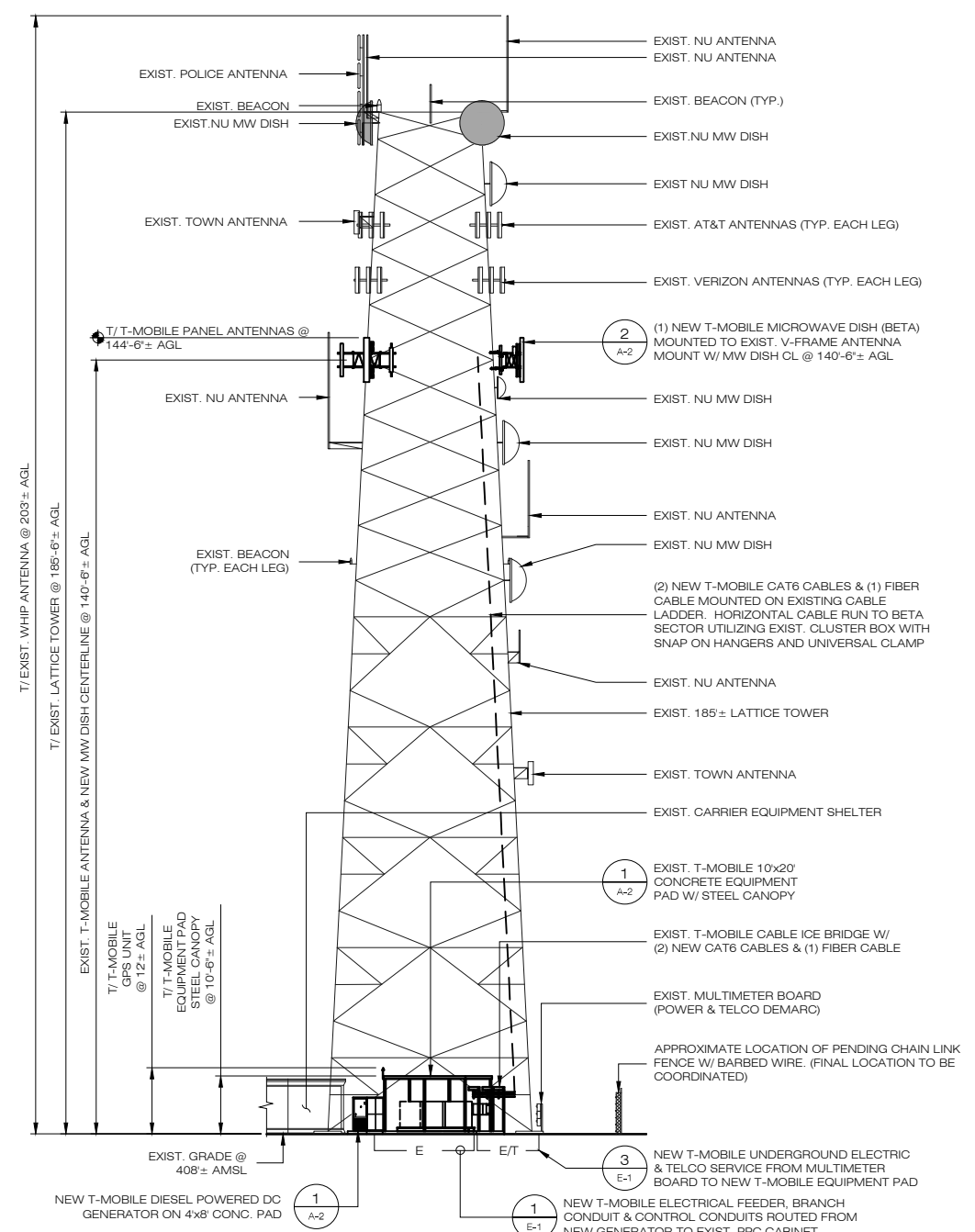
COMPOUND PLAN & ELEVATION

SHEET NUMBER:

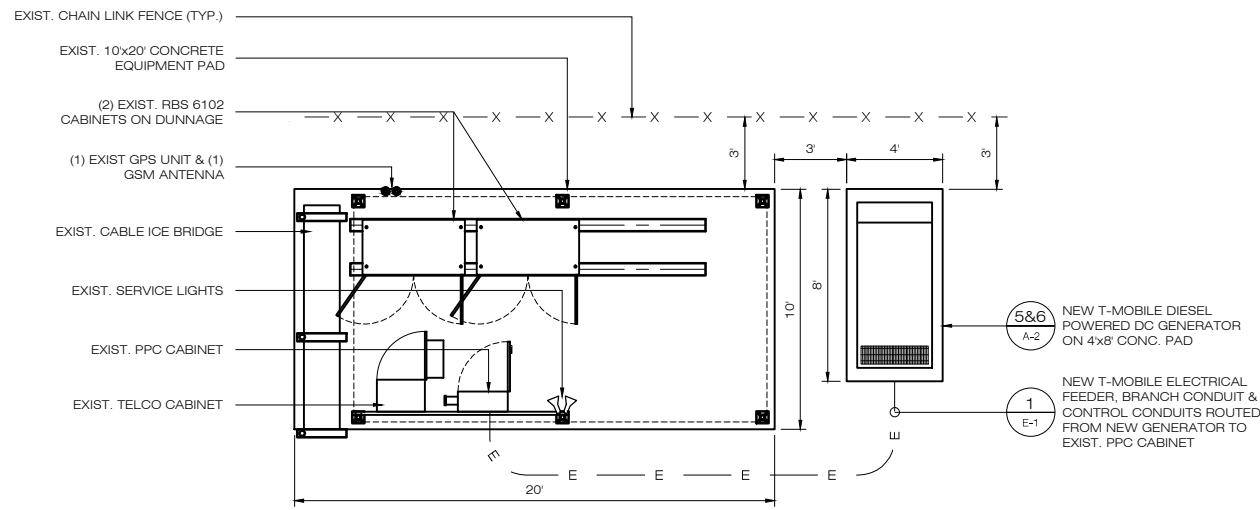
A-1



1 COMPOUND PLAN
A-1 SCALE: 1" = 10'-0"
10 0 5 10 20
(IN FEET) 1 inch = 10 ft.



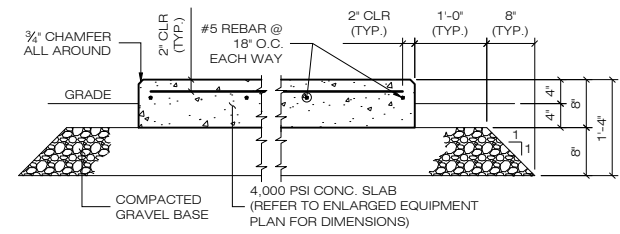
2 WEST ELEVATION
A-1 SCALE: 1/16" = 1'-0"
16 0 8 16 32
(IN FEET) 1 inch = 16 ft.



1 10' X 20' EQUIPMENT PAD
SCALE: 1/4" = 1'-0"

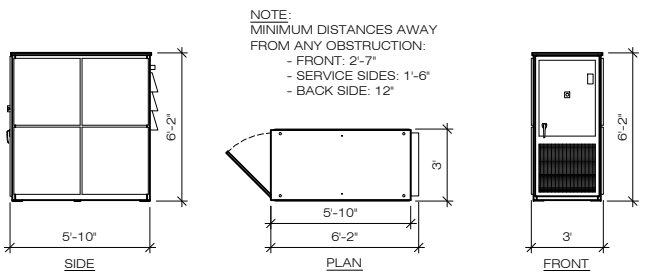
STRUCTURAL NOTES & SPECIFICATIONS

- CONCRETE:**
1. APPLY A QUALITY CONCRETE SEALER SUCH AS THEROSEAL ® TO EXPOSED CONCRETE IN ACCORDANCE WITH MANUFACTURERS APPLICATIONS DIRECTIONS.
 2. GRAVEL SUB BASE AND CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL.
 3. CONCRETE FOR FENCE AND ICE BRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (4%-6%) NORMAL WEIGHT CONCRETE.
 4. ALL CAST IN PLACE CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND ACI 301.
 5. THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
 - 5.1. CONCRETE CAST AGAINST EARTH ... 3 INCHES.
 - 5.2. CONCRETE EXPOSED TO EARTH OR WATER
 - 5.3. #6 AND LARGER 2 INCHES
 - 5.4. #5 AND SMALLER 1 1/2 INCHES
- ALL EXPOSED CONCRETE EDGES SHALL BE PROVIDED WITH A 3/4"x3/4" CHAMFER UNLESS NOTED OTHERWISE.

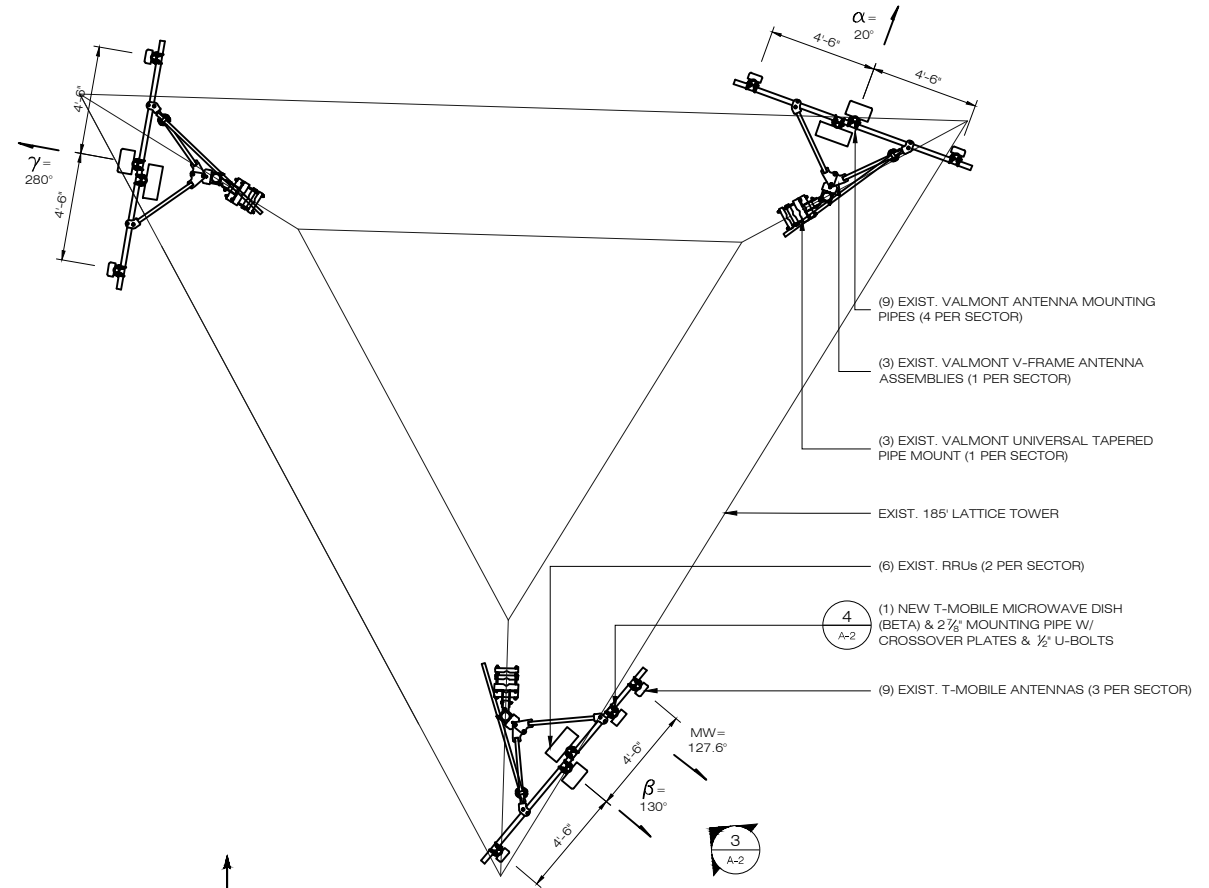


6 TYPICAL CONCRETE PAD DETAIL
SCALE: N.T.S.

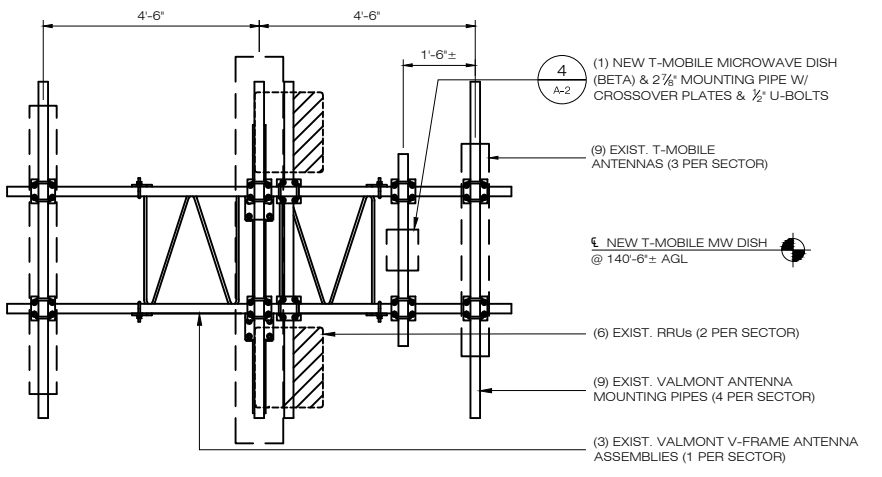
**POLAR POWER INC.
15kW DIESEL POWERED DC GENERATOR
PART NUMBER: 8220-801-D-15-05**



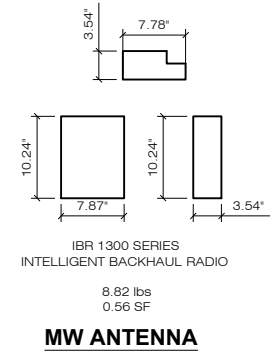
5 GENERATOR SCHEMATICS
SCALE: 3/4" = 1'-0"



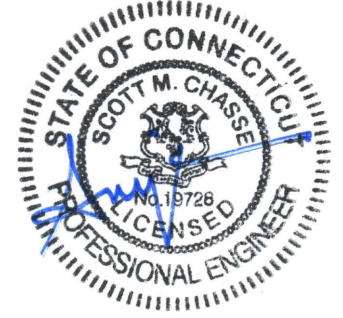
2 ANTENNA MOUNTING PLAN
SCALE: 3/4" = 1'-0"



3 BETA ANTENNA MOUNTING DETAIL
SCALE: 1/2" = 1'-0"



4 ANTENNA DETAIL
SCALE: 1/2" = 1'-0"



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T-Mobile NORTHEAST, LLC.
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100

NSS NORTHEAST SITE SOLUTIONS

APPROVALS

LANDLORD:	DATE:
RF ENGINEER:	DATE:
CONSTRUCTION:	DATE:
OPERATIONS:	DATE:
SITE ACQ.:	DATE:

CONSTRUCTION DOCUMENTS

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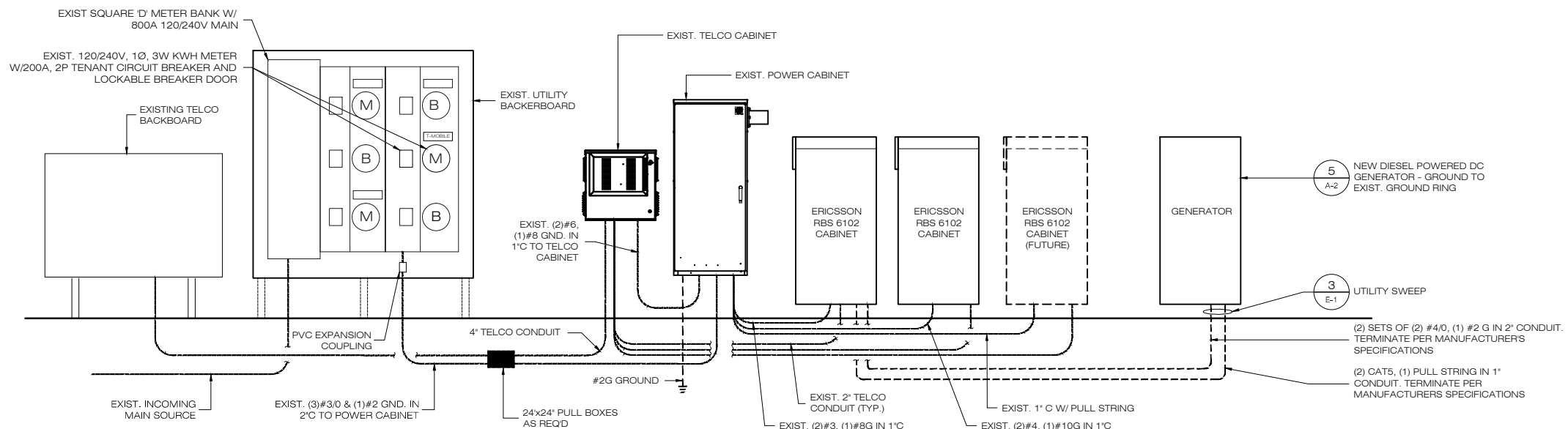
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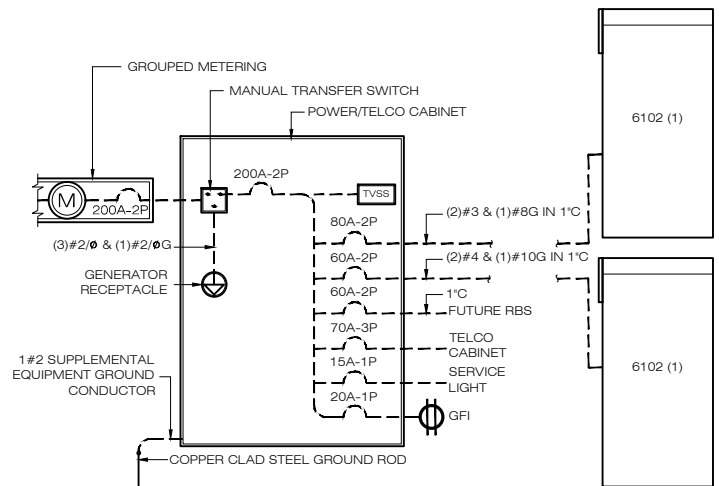
CONFIGURATION
707B
REFER TO LATEST T-MOBILE RF DATA SHEET FOR FINAL RF DESIGN & BOM.

SHEET TITLE:
ANTENNA & EQUIPMENT DETAILS

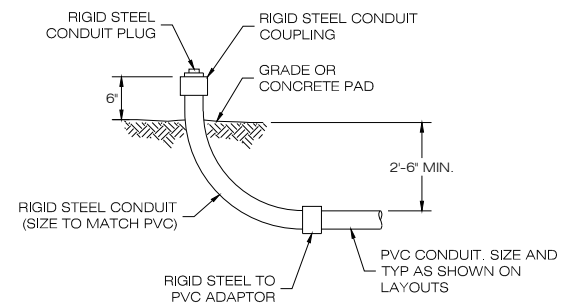
SHEET NUMBER:
A-2



1 POWER RISER DIAGRAM
SCALE: N.T.S.



2 ONE LINE DIAGRAM
SCALE: N.T.S.



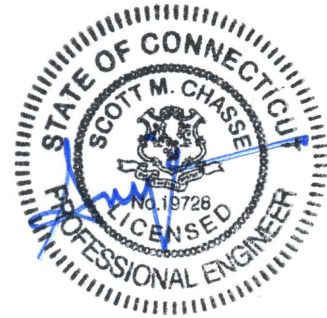
3 UTILITY SWEEP
SCALE: N.T.S.

ELECTRICAL LEGEND

U.O.N. UNLESS OTHERWISE NOTED	NEW PANEL BOARD, SURFACE MOUNTED
WP WEATHERPROOF	EXISTING PANEL BOARD, SURFACE MOUNTED
GFI GROUND FAULT INTERRUPTER	DRY TYPE TRANSFORMER
A AMPERE	METER
V VOLT	CIRCUIT BREAKER
KWH KILOWATT - HOUR	NON-FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
C CONDUIT	FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
G GROUND	TRANSIENT VOLTAGE SURGE SUPPRESSOR w/ BUILT-IN FUSES, SURFACE MOUNTED
GROUND	DUPLEX OUTLET, SURFACE MOUNTED, 20 AMPS, 125 VOLTS, SINGLE PHASE
MGB MASTER GROUND BAR	JUNCTION BOX, SURFACE MOUNTED 18" A.F.F.
1/4"x8"x24" COPPER	EXPOSED WIRING
1/2"x4"x12" OR 1/2"x4"x18" COPPER	COAXIAL CABLE
GROUND COPPER WIRE, SIZE AS NOTED	5/8"x8" COPPER CLAD STEEL GROUND ROD
EXPOSED WIRING	EXOTHERMIC (CADWELD) OR MECHANICAL (COMPRESSION TYPE) CONNECTION
COAXIAL CABLE	A.F.F. ABOVE FINISHED FLOOR
5/8"x8" COPPER CLAD STEEL GROUND ROD	
EXOTHERMIC (CADWELD) OR MECHANICAL (COMPRESSION TYPE) CONNECTION	

ELECTRICAL AND GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE & LOCAL CODES
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED & PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR & MATERIAL DESCRIBED BY DRAWINGS & SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING & APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, & IS RESPONSIBLE FOR OBTAINING SAID PERMITS & COORDINATION OF INSPECTIONS.
- ELECTRICAL & TELCO WIRING OUTSIDE A BUILDING & EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) & WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- BURIED CONDUIT SHALL BE SCHEDULE 80 PVC, UON.
- ELECTRICAL WIRING SHALL BE COPPER W/ TYPE XHHW, THWN, OR THINSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT & LESSEE/LICENSEE CELL. SITE POWER PEDESTAL AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION W/ UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT & LESSEE/LICENSEE CELL. SITE TELCO CABINET & BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE @ EACH END.
- WHERE CONDUIT BETWEEN BTS & LESSEE/LICENSEE CELL. SITE POWER PEDESTAL & BETWEEN BTS & LESSEE/LICENSEE CELL. SITE TELCO SERVICE CABINET ARE UG USE PVC, SCH.40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- POWER PEDESTAL SUPPLIED BY LESSEE/LICENSEE.
- GROUNDING SHALL COMPLY W/ NEC ART. 250.
- GROUND COAXIAL CABLE SHIELDS MINIMUM @ BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY LESSEE/LICENSEE.
- USE #6 COPPER STRANDED WIRE W/ GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) & #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 EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT W/ GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST & STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT @ RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT @ 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS W/IN 7 FEET OF LESSEE/LICENSEE EQUIPMENT OR CABINET TO MASTER GROUND BAR.
- CONNECTIONS TO GROUND BARS SHALL BE MADE W/ TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, & ALNA TO EGB PLACED NEAR THE ANTENNA LOCATION.
- BOND ANTENNA EGBS & MGB TO GROUND RING.
- TEST COMPLETED GROUND SYSTEM & RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION.



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SHEET TITLE:
ELECTRICAL/TELCO PLAN & DETAILS

SHEET NUMBER:
E-1