



Filed by:

G. Scott Shepherd, Sr. Property Specialist - SBA Communications
134 Flanders Rd., Suite 125, Westborough, MA 01581
508.251.0720 x 3807 - GShepherd@sbsite.com

September 30, 2021

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

RE: Notice of Exempt Modification
60 Adams St., Manchester, CT
Latitude: 41.794100
Longitude: -72.555300
T-Mobile Site #: CTHA039A_Hardening

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennas at the 135-foot level of the existing 141-foot EEI Monopole Tower at 60 Adams St., Manchester, CT. The tower is owned by SBA Towers VIII, LLC. The property is owned by Pom-Pom Gali, LLC. T-Mobile now intends to add one (1) Generac RD025 Diesel generator and 4' x 10' concrete pad, within a 72' 10" x 72' 10" fenced compound lease area. The proposed generator and concrete pad will sit fully within the leased area of the compound and will not require additional space for the supplementary tank.

Ground

Install New:

- (1) Generac RD0 25kw Diesel generator
- (1) RGS conduit for Ethernet cable for generator & Alarms
- (1) 2" RGS conduit for emergency power
- (1) 1-1/2" RGS conduit for generator heater & Battery
- (1) 4' x 10' concrete pad
- (1) 2" RGS conduit for emergency power from proposed ATS & existing PPC
- Generac 200A, 120/240v automatic transfer switch to existing H-Frame (install additional P1000 Unistruct posts)

Remaining:

- PPC & Emerson Nextend Compact 2416 fiber cabinet
- Ericsson 6160 equipment cabinet
- T-Mobile cables along existing Ice Bridge
- Existing T-Mobile Ice Bridge
- T-Mobile GPS antenna
- Ericsson B160 battery cabinet
- Ericsson RBS6102 equipment cabinet

Reason for Request / Change in Generator Size and Fuel

In an effort to further enhance network reliability, T-Mobile is proposing to install a diesel-based backup generator, the Generac RD025 25kw Diesel Generator. T-Mobile is currently in the middle of a National Hardening Project.

The proposed diesel generator measures 84.2" x 35" x 91.7" (w/fuel tank: 103.4" x 35" x 91.7"). It will sit fully within the leased area of the compound and will not require additional space for the supplementary tank.

Generac's RD025 25kw Diesel Generator carries up to 98 hours of run time with 100% load, 125 hours of run time with a 75% load and 161 hours of run time with a 50% load. It can operate in temperatures of 122 degrees Fahrenheit.

Monitoring, Prevention and Containment Measures

It will be filled by a licensed fuel filling company. The Generac's RD025 25kw Diesel Generator is fuel efficient, rodent and corrosion resistant, and has a sound attenuated aluminum enclosure with a Rated Load Sound Output at 23ft. of -65dB. It further supports advanced, remote monitoring for diagnostics and control and is installed with a tank alarm system. The Sound Output from the Generac RD025kw meets/exceeds the allowable noise emissions levels for the Town of Manchester, which is as follows:

Maximum Continuous Noise Levels (measured in dBA):

The following shall be exempt from this article subject to the special conditions need:

- (a) Noise created by the operation of property maintenance equipment during day-time hours.
- (b) Noise generated by any construction equipment operated during day-time hours.
- (c) Noise created by any recreational activities which are sanctioned by the Town including but not limited to parades, sporting events, concerts, and firework displays.
- (d) Noise created by any recreational activities which are sanctioned by the Town including but not limited to parades, sporting events, concerts, and firework displays.
- (e) Noise created by refuse and solid waste collection, provided that such activity is conducted between 6 a.m. and 10 p.m.



- (f) Noise created by fire or intrusion alarm which, from time of activation of the audible signal, emits noise for a period of time not exceeding ten minutes when such alarm is attached to a vehicle or thirty minutes when attached to any building or structure.
- (g) Noise created by public facility maintenance during day-time hours.

1. No person shall emit noise exceeding the levels stated herein:

	<u>Industrial</u>	<u>Business</u>	<u>Daytime Hours</u>	<u>Night-time hours</u>
Industrial	70 dBA	66 dBA	61 dBA	51 dBA
Business	62 dBA	62 dBA	55 dBA	45 dBA
Residential	62 dBA	55dBA	55 dBA	45 dBA

The proposed modification will remain within the existing 72' 10" x 72' 10" fenced compound. The new generator and tank will be surrounded by the existing security fence and 12' wide swing gate and will be placed on a plinth secured to a proposed 4' x 10' concrete pad.

Additional safety specifications:

- Automatic Voltage Regulation with Over and Under Protection
- Overspeed Shutdown
- High Temperature Shutdown
- Meets ANSI/IEEE C62.41, SA CSA 22.2, SAE J1349, NFPA 37, 70 99

Revised Construction Drawings and Full Spec Sheets referencing the above are attached herewith.

The revised ground configuration continues to meet all requirements for a Notice of Exempt Modifications. The request remains technically, legally, environmentally, and economically feasible and meets public safety concerns per Connecticut General Statute Section 16-50aa.

There is no environmental impact associated with the revised ground configuration, including, but not limited to, visibility, wetlands and water resources, air quality or noise.

T-Mobile's revised ground configuration:

- Will not have any significant adverse visual impact on the surrounding areas
- Does not affect or alter the existing site with regard to wetlands, water resources or air quality
- The generator would only be used in cases of emergency and would provide backup time of approximately 60 hours in time of need.

The proposed work is not thought to have any substantial adverse environmental impact. Public Need for the additional coverage outweighs any minor environmental effects that would result from the construction, operation, and maintenance of the proposed collocation.



A Map of the Site Showing Nearest Wetlands, depicted in feet, is attached herewith.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16.50j-72(b)(2). In accordance with R.C.S.A. § 16.50j-73, a copy of this letter is being sent to the Town of Manchester's Acting General Manager, Steve Stephanou and Zoning Enforcement Officer, James Davis, as well as to the property owner. (Separate notice is not being sent to tower owner, as it belongs to SBA.)

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. §16.50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modification will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modification will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above-referenced telecommunication facility constitute an exempt modifications under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

G. Scott Shepherd
Sr. Property Specialist
SBA COMMUNICATIONS CORPORATION
134 Flanders Rd., Suite 125
Westborough, MA 01581
508.251.0720 x3807 + T
508.366.2610 + F
508.868.6000 + C
GShepherd@sbsite.com

Attachments



cc: Steve Stephanou, Deputy General Manager / with attachments
Town Hall, 41 Center St., Manchester, CT 06040
James Davis, Zoning Enforcement Officer / with attachments
Town Hall, 41 Center St., Manchester, CT 06040
Pom-Pom Gali, LLC / with attachments
79 Boston Post Road, Willimantic CT 06226 {SBA overnight address on file}
PO Box 133 Willimantic, CT 06226 (Town address on file)

Exhibit List

Exhibit 1	Check Copy	x
Exhibit 2	FedEx Labels	x
Exhibit 3	Property Card	x
Exhibit 4	Property Map	x
Exhibit 5	Zoning Documents	Town of Manchester 12/17/98
Exhibit 6	Construction Drawings	Chappell 8/24/21
Exhibit 7	Generator Specifications	x
Exhibit 8	Wetlands Map	x

EXHIBIT 1

Copy of Check for filing fee.

EXHIBIT 2

FedEx Labels

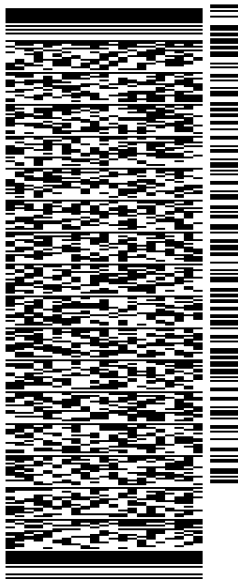
ORIGIN ID:BFBA (508) 614-0389
RICK WOODS
SBA COMMUNICATIONS CORPORATION
134 FLANDERS RD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

SHIP DATE: 02SEP21
ACTWGT: 2.00 LB
CAD: 105843304/NET4400
BILL SENDER

TO MELANIE A. BACHMAN EXEC. DIR
CONNECTICUT SITING COUNCIL
TEN FRANKLIN SQUARE

NEW BRITAIN CT 06051

(508) 251-0720 X.3807 REF: 105692009-6089
INV# PO: DEPT:

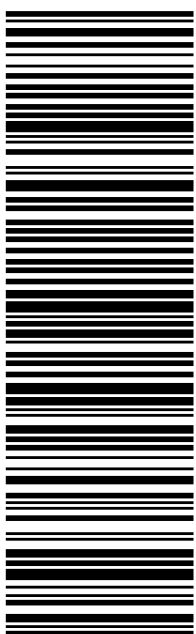


J212021070901uv

TRK# 7747 1059 7247 FRI - 03 SEP 10:30A
0201 PRIORITY OVERNIGHT

EB BDLA

06051
CT:US BDL



56DJ3/169A/FE4A

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



TRACK ANOTHER SHIPMENT

774710597247


[ADD NICKNAME](#)

Scheduled delivery:
Friday, September 3, 2021 before 10:30 am

**IN TRANSIT**

At destination sort facility
EAST GRANBY, CT

[GET STATUS UPDATES](#)
FROM

SBA COMMUNICATIONS CORPORATION
Rick Woods
134 Flanders Rd
Suite 125
WESTBOROUGH, MA US 01581
508-614-0389

TO

Melanie A. Bachman Exec. Dir
Connecticut Siting Council
Ten Franklin Square
NEW BRITAIN, CT US 06051
508-251-0720

[MANAGE DELIVERY](#)

Travel History

TIME ZONE

Local Scan Time



Friday, September 3, 2021



7:26 AM	EAST GRANBY, CT	At destination sort facility
6:29 AM	NEWARK, NJ	Departed FedEx hub

Thursday, September 2, 2021

11:49 PM	NEWARK, NJ	Arrived at FedEx hub
8:10 PM	FRAMINGHAM, MA	Left FedEx origin facility
5:41 PM	FRAMINGHAM, MA	Picked up
9:57 AM		Shipment information sent to FedEx

Shipment Facts

TRACKING NUMBER**SERVICE****WEIGHT**

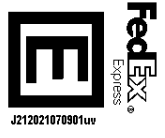
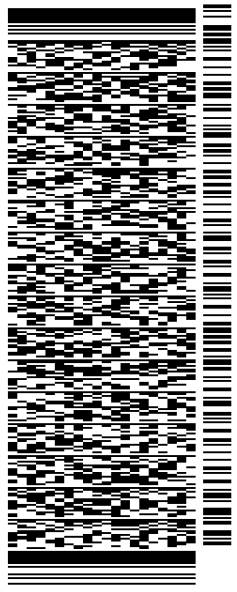
774710597247	FedEx Priority Overnight	2 lbs / 0.91 kgs
1	2 lbs / 0.91 kgs	Shipper
10-56-92009-6089	FedEx Pak	Deliver Weekday
9/2/21 	9/3/21 before 10:30 am 	9/3/21 before 10:30 am

ORIGIN ID:BFBA (508) 614-0389
RICK WOODS
SBA COMMUNICATIONS CORPORATION
134 FLANDERS RD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

SHIP DATE: 02SEP21
ACTWGT: 1.00 LB
CAD: 105843304/NET4400
BILL SENDER

TO STEVE STEPHANOU
TOWN HALL
ACTING GENERAL MANAGER
41 CENTER ST
MANCHESTER CT 06040
(508) 251-0720 X3807
REF: 105692009-6089
PO: DEPT:

56DJ3/169A/FE4A



TRK# 7747 1063 1923
0201
FRI - 03 SEP 10:30A
PRIORITY OVERNIGHT

EB QCWA
06040
CT-US BDL

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



TRACK ANOTHER SHIPMENT

774710631923


[ADD NICKNAME](#)

Scheduled delivery:
Friday, September 3, 2021 before 10:30 am

**IN TRANSIT**

At destination sort facility
EAST GRANBY, CT

[GET STATUS UPDATES](#)
FROM

SBA COMMUNICATIONS CORPORATION
Rick Woods
134 Flanders Rd
Suite 125
WESTBOROUGH, MA US 01581
508-614-0389

TO

Steve Stephanou
Town Hall
Acting General Manager
41 Center St
MANCHESTER, CT US 06040
508-251-0720

[MANAGE DELIVERY](#)

Travel History

TIME ZONE

Local Scan Time



Friday, September 3, 2021



7:26 AM	EAST GRANBY, CT	At destination sort facility
6:29 AM	NEWARK, NJ	Departed FedEx hub

Thursday, September 2, 2021

11:49 PM	NEWARK, NJ	Arrived at FedEx hub
8:10 PM	FRAMINGHAM, MA	Left FedEx origin facility
5:41 PM	FRAMINGHAM, MA	Picked up
9:59 AM		Shipment information sent to FedEx

Shipment Facts

TRACKING NUMBER**SERVICE****WEIGHT**

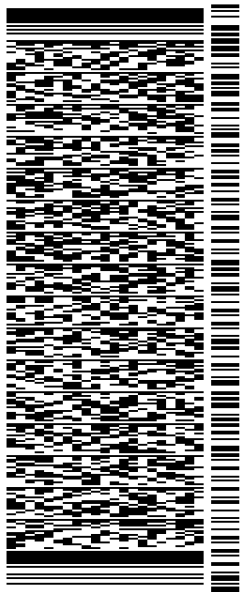
774710631923	FedEx Priority Overnight	1 lbs / 0.45 kgs
1	1 lbs / 0.45 kgs	Shipper
10-56-92009-6089	FedEx Envelope	Deliver Weekday
9/2/21 	9/3/21 before 10:30 am 	9/3/21 before 10:30 am

ORIGIN ID:BFBA (508) 614-0389
RICK WOODS
SBA COMMUNICATIONS CORPORATION
134 FLANDERS RD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

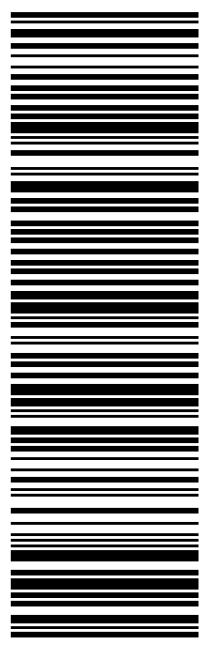
SHIP DATE: 02SEP21
ACTWGT: 1.00 LB
CAD: 105843304/NET4400
BILL SENDER

TO **JAMES DAVIS**
TOWN OF MANCHESTER
ZONING ENFORCEMENT OFFICER
41 CENTER ST
MANCHESTER CT 06040
(508) 251-0720 X3807 REF: 105692009-6089
INV: DEPT:
PO:

56DJ3/169A/FE4A



TRK# 7747 1076 4192 FRI - 03 SEP 10:30A
0201 PRIORITY OVERNIGHT

EB QCWA 06040
CT-US BDL


After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



TRACK ANOTHER SHIPMENT

774710764192


[ADD NICKNAME](#)

Scheduled delivery:
Friday, September 3, 2021 before 10:30 am

**IN TRANSIT**

At destination sort facility
EAST GRANBY, CT

[GET STATUS UPDATES](#)
FROM

SBA COMMUNICATIONS CORPORATION
Rick Woods
134 Flanders Rd
Suite 125
WESTBOROUGH, MA US 01581
508-614-0389

TO

James Davis
Town of Manchester
Zoning Enforcement Officer
41 Center St
MANCHESTER, CT US 06040
508-251-0720

[MANAGE DELIVERY](#)

Travel History

TIME ZONE

Local Scan Time



Friday, September 3, 2021

7:26 AM	EAST GRANBY, CT	At destination sort facility
6:29 AM	NEWARK, NJ	Departed FedEx hub

Thursday, September 2, 2021

11:49 PM	NEWARK, NJ	Arrived at FedEx hub
8:10 PM	FRAMINGHAM, MA	Left FedEx origin facility
5:41 PM	FRAMINGHAM, MA	Picked up
10:07 AM		Shipment information sent to FedEx

Shipment Facts

TRACKING NUMBER**SERVICE****WEIGHT**

774710764192	FedEx Priority Overnight	1 lbs / 0.45 kgs
1	1 lbs / 0.45 kgs	Shipper
10-56-92009-6089	FedEx Pak	Deliver Weekday
9/2/21 ?	9/3/21 before 10:30 am ?	9/3/21 before 10:30 am

ORIGIN ID:BBFA (508) 614-0389
RICK WOODS
SBA COMMUNICATIONS CORPORATION
134 FLANDERS RD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

SHIP DATE: 02SEP21
ACTWGT: 1.00 LB
CAD: 105843304/NET4400
BILL SENDER

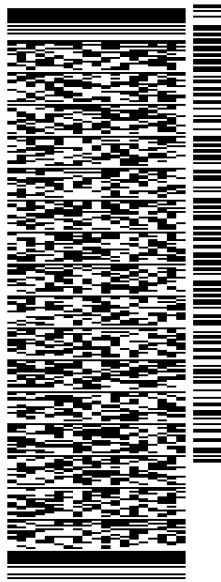
TO

POM-POM GALL, LLC
79 BOSTON POST RD.

WILLIMANTIC CT 06226

(508) 251-0720 X 3807 REF: 105692009-6089
INV# PO: DEPT:

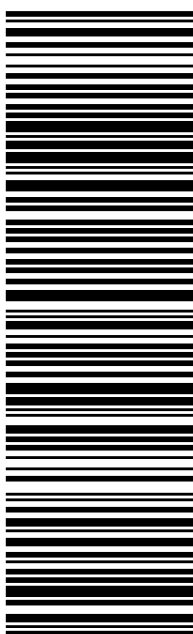
56DJ3/169A/FE4A



TRK# 7747 1078 2228 FRI - 03 SEP 10:30A
0201 PRIORITY OVERNIGHT

EB GONA

06226
CT-US BDL



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



TRACK ANOTHER SHIPMENT

774710782228


[ADD NICKNAME](#)

Scheduled delivery:
Friday, September 3, 2021 before 10:30 am

**IN TRANSIT**

At FedEx destination facility
NORWICH, CT

[GET STATUS UPDATES](#)
FROM

SBA COMMUNICATIONS CORPORATION
Rick Woods
134 Flanders Rd
Suite 125
WESTBOROUGH, MA US 01581
508-614-0389

TO

Pom-Pom Gali, LLC
79 Boston Post Rd.
WILLIMANTIC, CT US 06226
508-251-0720

[MANAGE DELIVERY](#)

Travel History

TIME ZONE

Local Scan Time



Friday, September 3, 2021

8:18 AM	NORWICH, CT	At local FedEx facility
4:37 AM	NEWARK, NJ	Departed FedEx hub

Thursday, September 2, 2021

11:49 PM	NEWARK, NJ	Arrived at FedEx hub
8:10 PM	FRAMINGHAM, MA	Left FedEx origin facility
5:41 PM	FRAMINGHAM, MA	Picked up
10:08 AM		Shipment information sent to FedEx

Shipment Facts

TRACKING NUMBER**SERVICE****WEIGHT**

774710782228	FedEx Priority Overnight	0.5 lbs / 0.23 kgs
1	0.5 lbs / 0.23 kgs	Shipper
10-56-92009-6089	FedEx Envelope	Deliver Weekday
9/2/21 ?	9/3/21 before 10:30 am ?	9/3/21 before 10:30 am

EXHIBIT 3

Property Card

60 ADAMS STREET

Location 60 ADAMS STREET

Mblu 28/ 20/ 60/ /

Acct# 002000060

Owner POM-POM GALI LLC

Assessment \$1,144,100

Appraisal \$1,634,300

PID 26

Building Count 3

DISTRICT E

CONCRETE

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2016	\$520,100	\$1,114,200	\$1,634,300

Assessment			
Valuation Year	Improvements	Land	Total
2016	\$364,200	\$779,900	\$1,144,100

Owner of Record

Owner POM-POM GALI LLC
Address PO BOX 133
WILLIMANTIC, CT 06226

Sale Price \$1,551,222
Certificate C
Book & Page 3204/ 184
Sale Date 12/23/2005
Instrument 36

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
POM-POM GALI LLC	\$1,551,222	C	3204/ 184	36	12/23/2005
THORNTON WILLIAM B EST	\$0		3130/ 054	35	08/25/2005
THORNTON WILLIAM B	\$0		492/ 089		

Building Information

Building 1 : Section 1

Year Built: 1965
Living Area: 1,863
Replacement Cost: \$223,203

Replacement Cost
Less Depreciation: \$84,800

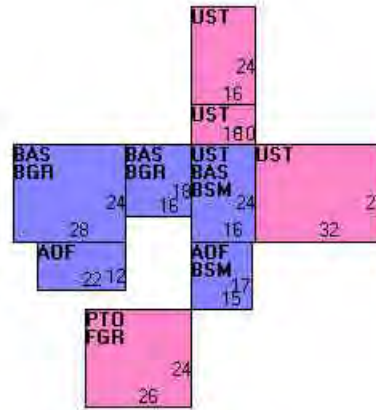
Building Attributes	
Field	Description
STYLE	Light Indust
MODEL	Ind/Comm
Grade	Average
Stories:	1
Occupancy	1
Exterior Wall 1	Pre-finish Metl
Exterior Wall 2	Concr/Cinder
Roof Structure	Flat
Roof Cover	Tar + Gravel
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheetr
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Electric
Heating Type	Electr Basebrd
AC Type	None
Bldg Use	Industrial 96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	300
Heat/AC	None
Frame Type	Masonry
Baths/Plumbing	Average
Ceiling/Wall	Ceiling & Wall
Rooms/Prtns	Average
Wall Height	9
% Comn Wall	0

Building Photo



(<http://images.vgsi.com/photos2/ManchesterCTPhotos//\00\02\6>)

Building Layout



(<http://images.vgsi.com/photos2/ManchesterCTPhotos//Sketches>)

Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	1,344	1,344
AOF	Office, (Average)	519	519
BGR	Basement Garage	960	0
BSM	Basement	639	0
FGR	Garage	624	0
PTO	Patio	624	0
UST	Utility, Storage, Unfinished	1,696	0
		6,406	1,863

Building 2 : Section 1

Year Built: 1965
Living Area: 8,658
Replacement Cost: \$367,995
Replacement Cost
Less Depreciation: \$139,800

--

Building Attributes : Bldg 2 of 3

Field	Description
STYLE	Service Shop
MODEL	Serv Station
Grade	Minimum
Stories:	1
Occupancy	1
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Metal/Tin
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Forced Air-Duc
AC Type	None
Bldg Use	Industrial 96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	300
Heat/AC	None
Frame Type	Masonry
Baths/Plumbing	Average
Ceiling/Wall	Ceiling & Wall
Rooms/Prtns	Average
Wall Height	18
% Comn Wall	0

Building Photo



(<http://images.vgsi.com/photos2/ManchesterCTPhotos//\00\02\6>)

Building Layout



(<http://images.vgsi.com/photos2/ManchesterCTPhotos//Sketches>)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	8,658	8,658
		8,658	8,658

Building 3 : Section 1

Year Built: 1965
Living Area: 6,398
Replacement Cost: \$454,584
Replacement Cost Less Depreciation: \$172,700

Building Attributes : Bldg 3 of 3

Field	Description
STYLE	Office Bldg
MODEL	Comm/Ind
Grade	Below Average

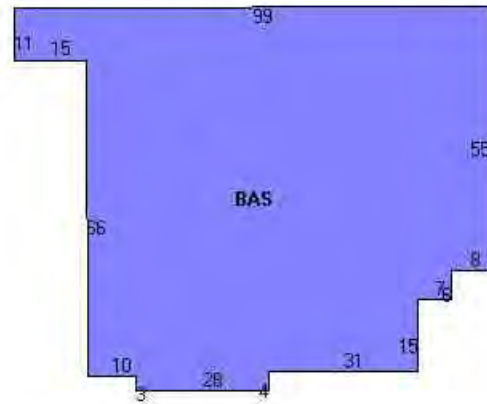
Stories:	1
Occupancy	1
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Metal/Tin
Interior Wall 1	Drywall/Sheetr
Interior Wall 2	
Interior Floor 1	Tile/Vinyl Cmp
Interior Floor 2	Carpet
Heating Fuel	Electric
Heating Type	Electr Basebrd
AC Type	Central
Bldg Use	Industrial 94
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	300C
Heat/AC	Heat AC Split
Frame Type	Masonry
Baths/Plumbing	Average
Ceiling/Wall	Susp Ceil & WI
Rooms/Prtns	Average
Wall Height	10
% Comn Wall	0

Building Photo



(<http://images.vgsi.com/photos2/ManchesterCTPhotos//\00\02\6>)

Building Layout



(<http://images.vgsi.com/photos2/ManchesterCTPhotos//Sketches>)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	6,398	6,398
		6,398	6,398

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	300
Description	Industrial 96
Zone	IND

Land Line Valuation

Size (Acres)	26.45
Frontage	0
Depth	0

Neighborhood 4000
Alt Land Appr No
Category

Assessed Value \$779,900
Appraised Value \$1,114,200

Outbuildings

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FGR1	Garage Average			1440 S.F.	\$13,000	2
PAV2	Paving Concrete			40000 S.F.	\$54,000	1
PAV2	Paving Concrete			11498 S.F.	\$25,900	3
SHD1	Shed			1680 S.F.	\$15,100	1
PAV1	Paving Asphalt			8000 S.F.	\$10,000	3
TNK5	Tank Elevated			240 GALS	\$400	1
FN4	Fence 8' Chain			290 L.F.	\$4,400	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2015	\$440,800	\$1,114,200	\$1,555,000
2010	\$527,000	\$1,156,400	\$1,683,400
2005	\$458,400	\$795,200	\$1,253,600

Assessment			
Valuation Year	Improvements	Land	Total
2015	\$308,600	\$779,900	\$1,088,500
2010	\$369,000	\$809,400	\$1,178,400
2005	\$320,900	\$556,600	\$877,500

(c) 2019 Vision Government Solutions, Inc. All rights reserved.

EXHIBIT 4
Property Map

Google Maps 60 Adams St



Map data ©2019 200 ft



60 Adams St

Manchester, CT 06040



Directions



Save



Nearby



Send to your phone



Share



QCVV+95 Manchester, CT

At this location

1-800 Dump Runs

3.0 ★★☆☆☆ (1)

Garbage dump service · 60 Adams St



A Aiudi & Sons LLC

Concrete contractor · 60 Adams St



Builder's Concrete Inc

3.7 ★★★★★ (3)

Ready mix concrete supplier · 60 Adams St



Manchester Aggregate Supply

4.3 ★★★★★ (3)

Aggregate supplier · 60 Adams St

EXHIBIT 5

Zoning Documents

SITE NAME: Manchester 12, CT SITE ID: CT16504-A
Transaction: Mariner Towers, LLC Pam

ZONING/PERMITTING COMPLETION FORM

Address: 60 Adams Street, Manchester, CT 06042

Jurisdiction: Connecticut Siting Council /Town of Manchester Zoning District: Industrial

Zoning Approval Type: Certificate/Zoning Permit Case #: TS-BAM/SCLP-077-981208 (CSC)

Approval Date: 12/17/98 Approved Height: 140 99-1764 (Zoning Permit)

Conditions of Approval:

	<u>Yes</u>
Removal Bond _____	<input type="checkbox"/>
Site Plan Submittal _____	<input type="checkbox"/>
Fall Zone _____	<input type="checkbox"/>
Periodic Inspections _____	<input type="checkbox"/>
Periodic Reporting _____	<input type="checkbox"/>
Approval Renewal _____	<input type="checkbox"/>
Additional Conditions _____	<input type="checkbox"/>

Approval is for a tower replacement.

JURISDICTION POC/DEPT.

Planning/Zoning: _____

Phone: _____ Email: _____

Bldg./Code Enforcement: _____

Phone: _____ Email: _____

Submitted by: *Datches Estes* Date: 7/1/14
Zoning Compliance

TO BE COMPLETED BY CORPORATE

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	
Zoning Approval Attached (required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Building Permit Attached (required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Date Recd</u>
				<u>5/11/99</u>
Certificate of Occupancy or Compliance (CO) attached (required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>10/5/99</u>
Zoning Manager Approval: <u><i>Diane E. Borchardt</i></u>				Date <u>7/10/2014</u>
	<u>Diane E. Borchardt, AICP</u>			



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

December 22, 1998

Jennifer Young Gaudet
Manager-Regulatory
Bell Atlantic Mobile
20 Alexander Drive
Wallingford, CT 06492

RE: TS-BAM/SCLP-077-981208 - Cellco Partnership d/b/a Bell Atlantic Mobile and Springwich Cellular Limited Partnership request for an order to approve tower sharing on a telecommunications tower to be replaced at 60 Adams Street, Manchester, Connecticut.

Dear Ms. Gaudet:

At a public meeting held on December 17, 1998, the Connecticut Siting Council (Council) ruled that the shared use of this replacement tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. The proposed shared use is to be implemented as specified in your letter dated December 8, 1998, with the condition that fencing surrounding the base of the tower will consist of black vinyl chainlink fencing as requested by the Town of Manchester.

This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used on this tower. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction. Please notify the Council when all work is complete.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/jlh

c: Honorable Stephen T. Cassano, Mayor, Town of Manchester
Peter Van wilgen, Springwich
Mark Pellegrini, Director of Planning & Economic Development, Town of Manchester

99-1764

TOWN OF MANCHESTER ZONING PERMIT

41 Center Street

Please Print or Type

Telephone: 647-3052

TO: ZONING ENFORCEMENT OFFICER

Certification of Zoning Approval is hereby requested for:

application of a Building Permit

Other:

Decision is based on the following information:

- 1.) Location: (street and no. or lot no.) 60 ADAMS ST
- 2.) Owner's Name: BELL ATLANTIC MOBILE
- 3.) Builder: BELL ATLANTIC MOBILE
Address: 20 ALEXANDER DR WALLINGFORD CT 06492
- 4.) Check Type of Construction: New Building Addition Alteration
 Repair Miscellaneous
- 5.) Job Description* CONSTRUCT A 148-0 MONOPOLE TOWER WITH TWO MODULAR BUILDINGS
(*Plot Plan required for all additions to buildings and accessory structures)
- 6.) Other Buildings Not Shown: _____
- 7.) Merestones or Stakes Indicating Lot Boundaries? ON PLANS
- 8.) Distance from Street Line: 800'
- 9.) Distance from Side Line: Left 100' Right 100'
- 10.) Distance from Building to Rear Lot Line: 100'
- 11.) Proposed Use: CELLULAR COMMUNICATION FACILITY
(For example: manufacturing, office, storage, dwelling, school, bath, garage)
- 12.) Sewer Septic Water Well

THIS PERMIT SHALL NOT BE EFFECTIVE FOR 24 HOURS AFTER APPROVAL

I hereby certify that the above statements are true to the best of my knowledge and belief.

4-19-99
Date

Mark D. Ganger
Signature

203-494-0023
Telephone

FOR OFFICE USE ONLY

This is to certify that the above-stated information is a permitted and lawful use as controlled by the Zoning Regulations of the Town of Manchester, Connecticut, upon authorized signature of the Zoning Enforcement Officer.

Zoning Permit Issued: 4/29/99
Zone: IND

Conditions: _____
Approved By: Thomas A. Flynn
Zoning Enforcement Officer

ADDITIONAL APPROVAL FOR BUSINESS AND INDUSTRIAL USE

Date	Engineering	Date	Police	Date	Fire
------	-------------	------	--------	------	------

Comments: approved by selectmen council

Additional Permits May Be Required From: _____ Dept(s)
for _____

TOWN OF MANCHESTER
BUILDING DEPARTMENT
INSPECTION

CH

DATE OF LAST INSPECTION _____
DATE: 5-11-99 AM 10 PM PERMIT# 99-1764
ORIGINAL INSPECTION _____ PRE-INSPECTION _____ RE-INSPECTION _____
LOCATION: 60 Adams-
OWNER: (Old Sand & Gravel) Bell Atlantic Tower
CONTRACTOR _____

TYPE OF INSPECTION:	EXPLAIN	APPROVE	DISAPPROVE
<input checked="" type="checkbox"/> STRUCTURE	Foundation footing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> ELECTRICAL		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> PLUMBING	for 2 modular	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> HEATING	Bldgs, and	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> AIR COND.		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> VENTILATION		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> SPRINKLER	footing pier	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> ALARM		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> DEMOLITION	for tower	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> ZONING		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> CERT. OF OCCUP.	26' deep	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> OTHER		<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS: _____

Calvin Hutchinson
INSPECTOR'S SIGNATURE

TOM

TOWN OF MANCHESTER - BUILDING INSPECTION

Date of inspection: 10/05/99

Inspector: AMY INSPECTOR

Permit #: 99-00001764

Address of inspection: 60 ADAMS STREET

Owner: THORNTON WILLIAM B

Contractor: BELL ATLANTIC MOBILE

Type of inspection:

CERTIFICATE OF USE

FINISH ELECTRIC

Request Comments:

Results	Reinsp	Rec'd by	Permit	Time
---	No	LW	BLDG	10:12
---	No	LW	ELEC	10:12

Request Comments: WIRE CELL SITE, WATER, GENERATOR

ELECTRIC SERVICE (NEW)

FINISH ELECTRIC

Request Comments:

Request Comments: ADD METER, PHONE WIRE AND CIRCUITS

TANK INSTALLATION

Request Comments:

Request Comments: 1000 GAL PROPANE TANK

FINAL INSPECTION FOR ZONING

Comments: TOWER

Inspector's signature: *proffman*



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 4, 2014

Matt Burke
TRM, Inc.
16 Chestnut Street
Foxborough, MA 02035

RE: **EM-AT&T-077-140117** – American Telephone and Telegraph (AT&T) notice of intent to modify an existing telecommunications facility located at 60 Adams Street, Manchester, Connecticut.

Dear Mr. Burke:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

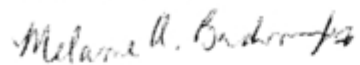
- Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated January 17, 2014. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.



Very truly yours,



Melanie A. Bachman
Acting Executive Director

MAB/CDM/cm

- c: The Honorable Leo V. Diana, Mayor, Town of Manchester
- Scott Shanley, General Manager, Town of Manchester
- James Davis, Zoning Enforcement Officer, Town of Manchester
- Mariner Towers



Matt Burke

16 Chestnut Street, Suite 220
Foxboro, MA 02035
Tel (508) 930-0974
Fax (774) 215-5423

Melanie Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

**Re: Notice of Exempt Modification - Emergency Backup Generator
60 Adams St., Manchester, CT 06040 (FA# 10035244)**

Dear Ms. Bachman:

American Telephone and Telegraph Company ("AT&T") currently maintains a wireless telecommunications facility at the above referenced address. AT&T's facility consists of antennas at the 125' level of an existing 140' tower and a 12' x 26' equipment shelter. The tower and AT&T's shelter are located within an existing, fenced-in compound area. The shelter houses AT&T's equipment and space for a back-up generator. AT&T does not currently maintain a generator at this cell site.

In an effort to further enhance multiple tenants' network reliability, AT&T intends to modify its facility by installing a new diesel-fueled generator outside in a designated 4' x 8' ground space. The generator incorporates a built-in fuel tank as part of the unit. The diesel fuel tanks are double walled for added safety and will be filled by a licensed fuel filling company. The proposed modification will remain within the existing, fenced-in compound. The new generator and tank will be surrounded by a security fence and gate and will be placed on a 4' x 8' concrete pad. (See Facility Compound Plan attached).

Please accept this letter as notification pursuant to R.C.S.A Section 16-50j-73, for construction that constitutes modification pursuant to R.C.S.A Section 16-50j-72(b)(2). In accordance with R.C.S.A Section 16-50j-73, a copy of this submission is being sent to the Town of Manchester. A copy of this submission is also being sent to Pom-Pom Gali, LLC, the property owner on which the tower is located.

AT&T's Proposed Wireless Modifications Constitute An "Exempt Modification"

The proposed modification to the above mentioned Facility constitutes an exempt modification of an existing facility provided for in R.C.S.A Section 16-50j-72(b)(2) and Council regulations promulgated pursuant thereto.

- 1) The proposed modification will not result in an increase in the height of the existing tower.
- 2) The generator and attached fuel tank will remain entirely within the limits of the leased area. The modifications therefore, will not require the extension of the boundary.
- 3) The proposed modification does not increase the noise levels at the boundary by six (6) decibels or more under normal conditions. Proposed modification is only used during emergency power failure.
- 4) The installation of a new generator and attached fuel tank will not change, in any way, radio frequency (RF) emissions at the facility.
- 5) The facility has received all municipal zoning approvals and building permits. (Regs., Conn. State Agencies Section 16-50j-72))

For all the foregoing reasons, American Telephone and Telegraph Company respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A Section 16-50j-72(b)(2)

Respectfully submitted,

Matt Burke 508.930.0974

On behalf of AT&T

c/o Tower Resource Management, Inc.
16 Chestnut Street, Suite 220
Foxboro, MA 02035

cc: **Town of Manchester, CT**
Pom-Pom Gali, LLC

Exhibit 1

Site Plan



VICINITY MAP



BACKUP POWER PROJECT

SITE IDENTIFICATION:

SITE NUMBER: 10035244
 SITE NAME: MANCHESTER SAND GRAVEL
 SITE ADDRESS: 60 ADAMS STREET
 MANCHESTER, CT 06040



Know what's below.
 Call before you dig.

PROJECT TEAM

CUSTOMER REPRESENTATIVE:
 PEGGY POOR
 SABRE INDUSTRIES
 MARKET LEAD - AT&T NE GENERATOR PROGRAM
 13010 MORRIS ROAD, 6TH FLOOR, BLDG 1
 ALPHARETTA, GA 30004
 CELL 770-990-0137
 ppoor@sabreindustries.com

LANDLORD:
 MARINER TOWERS II
 PO BOX 2600,
 KENNEBUNKPORT, ME

GROUND OWNER:
 MARINER TOWERS II
 PO BOX 2600,
 KENNEBUNKPORT ME

UTILITIES:
 POWER COMPANY:
 NAME: NORTHEAST UTILITIES

PROJECT SUMMARY

GEOGRAPHIC COORDINATES:
 LATITUDE: 41° 47' 38.6" N (41.794056 N)
 LONGITUDE: -72° 33' 19.3" W (-72.555361 W)
 GROUND ELEVATION: N/A

CODE BLOCK:
 BUILDING CODE: 2009 INTERNATIONAL BUILDING CODE

AT&T OPS. FOR POWER CUT OVER:
 NEED 24 HOUR NOTICE
 TO OPEN A TAP TICKET
 DIAL: 1-800-638-2822
 SELECT OPTION 1, THEN OPTION 2

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.

PROJECT LOCATION DIRECTIONS

FROM ROCKY HILL, CT: MERGE ONTO I-91 N VIA THE RAMP ON THE LEFT TOWARD HARTFORD. 7.8 MILES MERGE ONTO CT-15 N VIA EXIT 29 TOWARD I-84 / EAST HARTFORD / BOSTON. 2.1 MILES CT-15 N BECOMES I-84 E. 3.9 MILES TAKE THE BUCKLAND STREET EXIT- EXIT 62. 1.0 MILES TURN RIGHT ONTO BUCKLAND ST. 0.3 MILES STAY STRAIGHT TO GO ONTO ADAMS ST. 0.1 MILES END AT 60 ADAMS ST, MANCHESTER, CT 06042.

SHEET INDEX

SHT. NO.	DESCRIPTION:	REV.	DATE:	BY:
T-1	TITLE SHEET, VICINITY MAP AND GENERAL INFORMATION	0	01-06-14	AS
A-1	SITE PLAN	0	01-06-14	AS
A-2	CONCRETE PAD DETAILS	0	01-06-14	AS
E-1	WIRING DIAGRAM & H-FRAME LAYOUT	0	01-06-14	AS
E-2	ELECTRICAL DETAILS	0	01-06-14	AS
G-1	COMPOUND GROUNDING	0	01-06-14	AS
	GENERATOR ASSEMBLY AND INSTALLATION SUPPLEMENT			

LOCAL MAP



NOTE:
 CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT AREA, CONTRACTOR IS TO FIELD VERIFY THE PRESENCE OF EMERGENCY BACK-UP SERVICE TO THE MUX. IF EMERGENCY BACK-UP SERVICE IS NOT PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA

500 ENTERPRISE DRIVE, SUITE 1A
 ROCKY HILL, CT 06867

1600 OSWEGO STREET
 BUILDING 20 NORTH, SUITE 2090
 WILMINGTON, MA 01897
 TEL: (978) 537-5555
 FAX: (978) 336-5586

SITE NUMBER:
10035244

SITE NAME:
MANCHESTER SAND GRAVEL

SITE ADDRESS:
 60 ADAMS STREET
 MANCHESTER, CT 06040

STAMP HERE!
 DRAWN BY: AS
 CHECKED BY: SB
 DATE DRAWN: 01-06-14
 JOB NO.: 10035244
 SHEET TITLE:

TITLE SHEET
 VICINITY MAP
 AND GENERAL
 INFORMATION

SHEET NUMBER:
T-1

REV. #
0



500 ENTERPRISE DRIVE, SUITE 1A
ROCKY HILL, CT 06067

PROFESSIONAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER
STATE OF CONNECTICUT
No. 24176

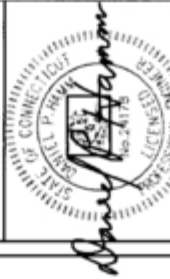


1600 OSAGE STREET
BUILDING 20 NORTH, SUITE 2095
CHICAGO, IL 60654
TEL: (773) 552-2225
FAX: (773) 316-5386

SITE NUMBER:
10035244

SITE NAME:
MANCHESTER SAND GRAVEL

SITE ADDRESS:
60 ADAMS STREET
MANCHESTER, CT 06040

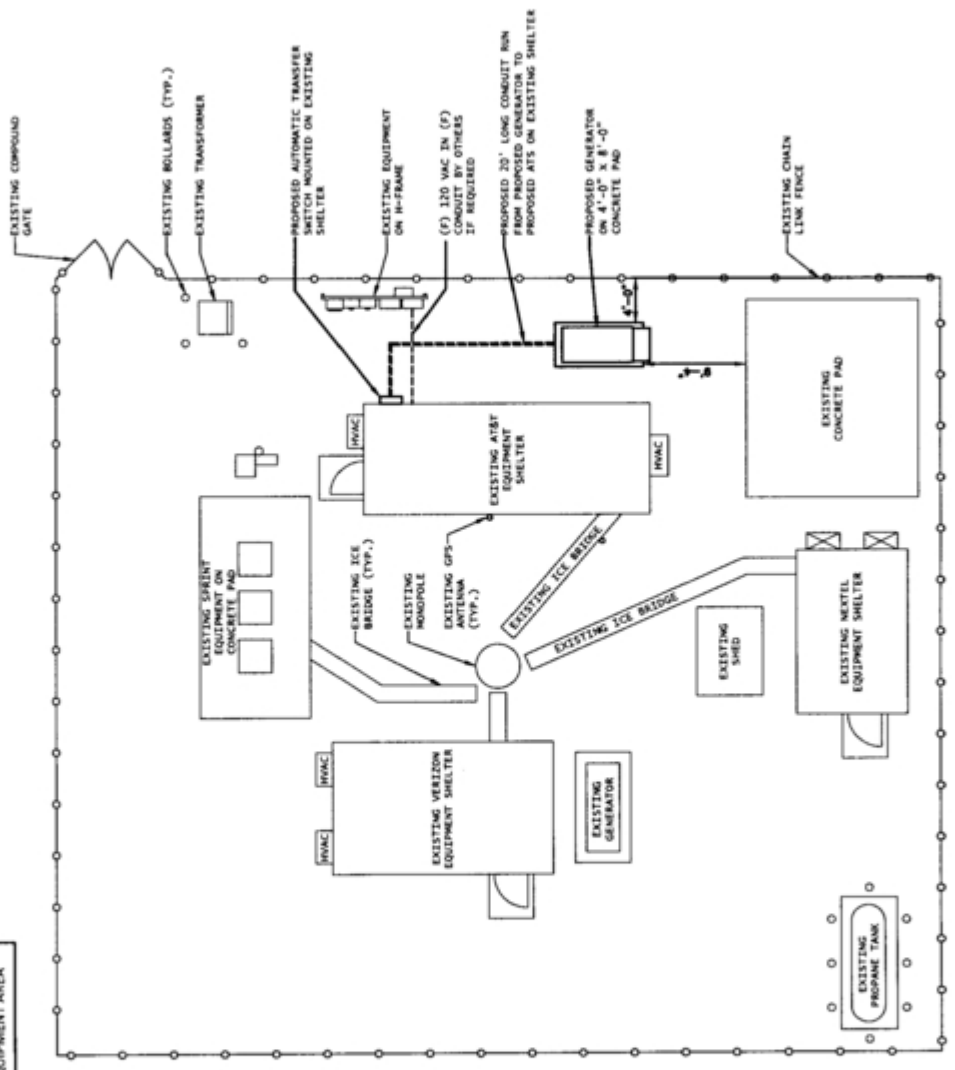


STAMP HERE
DRAWN BY: AS
CHECKED BY: SB
DATE DRAWN: 01-08-14
JOB NO.: 1000.01
SHEET TITLE:

SITE PLAN

SHEET NUMBER: **A-1** REV. # **0**

NOTE:
CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT AREA, CONTRACTOR IS TO FIELD VERIFY THE PRESENCE OF EMERGENCY BACK-UP SERVICE TO THE MUX. IF EMERGENCY BACK-UP SERVICE IS NOT PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA



1 SITE PLAN
SCALE 3/32" = 1'-0" (11'x17")
3/16" = 1'-0" (24'x36")



at&t

500 FORTRESS CHASE, SUITE 1A
ROCKY HILL, CT 06867

FOR THE RECORD: THIS DRAWING IS THE PROPERTY OF AT&T DESIGN GROUP, INC. AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF AT&T DESIGN GROUP, INC. ANY VIOLATION OF THIS NOTICE IS SUBJECT TO LEGAL ACTION.

Sabre Industries



Hudson Design Group
2600 OSWAGO STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
TEL: (978) 532-5253
FAX: (978) 336-5386

SITE NUMBER:
10035244

SITE NAME:
MANCHESTER SAND GRAVEL

SITE ADDRESS:
60 ADAMS STREET
MANCHESTER, CT 06040



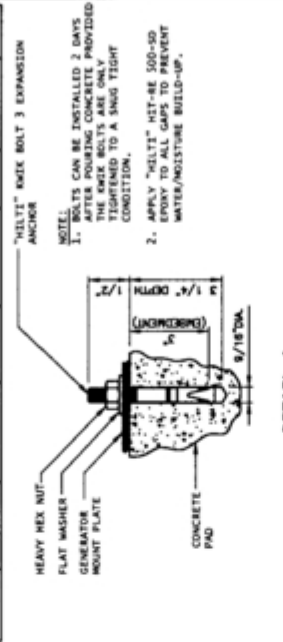
STAMP HERE
DRAWN BY: AS
CHECKED BY: SB
DATE DRAWN: 01-06-14
JOB NO.: 10035244
SHEET TITLE:
CONCRETE
PAD DETAIL

SHEET NUMBER:
A-2

REV. #
0

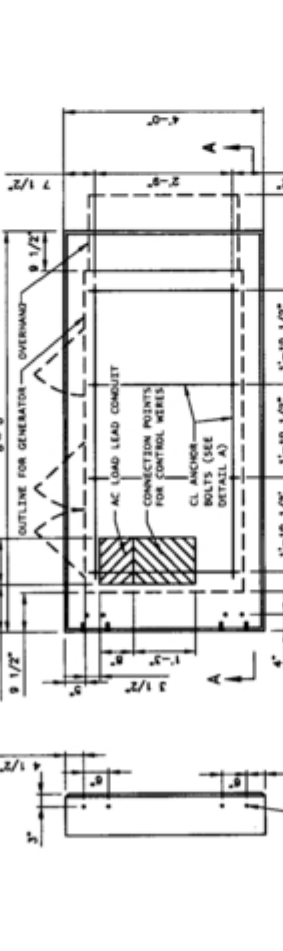
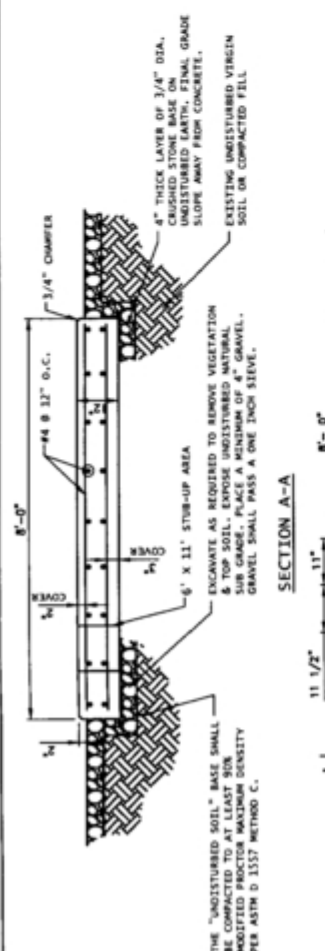
MATERIALS LIST (FOR ONE CONCRETE PAD)

QTY	SIZE	TOTAL LENGTH	TOTAL WEIGHT (LBS)	TYPE	DIMENSION	BENDING DIAGRAM
20	3/2"	4 1/2" LONG WITH 2 7/8" THREAD		"HELIX" W/TK BOLT 3 EXPANSION ANCHOR	A= 4 1/2"	
32	#4	9'-9 1/2"	78		A= 9'-9 1/2"	
38	#4	7'-9 1/2"	94		A= 7'-9 1/2"	
4	#4	7'-9 3/8"	214	STRAIGHT	A= 7'-9 3/8"	
6	#4	2'-2 1/2"	11		A= 2'-2 1/2"	
4	#4	0'-5 3/8"	2		A= 0'-5 3/8"	
STANDARD REBAR SIZES & WEIGHTS						
BAR NO.	LBS PER FT.	DIA., INCHES	GRABE			
4	.6875	.500	#3			



*** FOR REFERENCE. TO BE USED FOR INSTALLATION OF KWIK BOLT EXPANSION ANCHORS FOR 50KW GENERATORS.**

NOTE:
1. BOLTS CAN BE INSTALLED 2 DAYS AFTER CONCRETE IS PROVIDED. THE KWIK BOLTS ARE ONLY TIGHTENED TO A SNUG TIGHT CONDITION.
2. APPLY "HELIX" HT-BE 500-20 EPOXY TO ALL GAPS TO PREVENT WATER/MOISTURE BUILD-UP.



CONCRETE SLAB (GENERATOR FOUNDATION)

CONCRETE AND REINFORCING STEEL NOTES:

- ALL CONCRETE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI 318-85) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND (ACI 301) STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 903I, ACI 903R, ASTM A108 AND ASTM A185.
- MINIMUM ALLOWABLE CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS. ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS METHODS STANDARDS ASTM C177, ASTM C31 AND ASTM C39 UNLESS NOTED OTHERWISE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDING WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL FABRIC UNLESS NOTED OTHERWISE. ALL WELDED STEEL FABRIC SHALL BE CLASS "B" AND ALL JOBS SHALL BE STANDARD, UNLESS NOTED OTHERWISE.
- DETAILING SHALL BE ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES (ACI 570-315-82).
- CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" IN ACCORDANCE WITH ACI 301 SECTION 4.2.2 UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL BE IN ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. LOCATION OF REINFORCEMENT SHALL BE INDICATED ON THE DRAWINGS. CONCRETE COVER SHALL BE 3" MINIMUM.
- TOP OF FOUNDATION TO HAVE A "BRUSH FINISH".
- EXPOSED FINISHED SURFACE IS NOT TO HOLD WATER.
- ALL SURFACES ARE TO BE CLEANED OF ANY RESIDUAL CONCRETE FROM SPLASHING OR SPILLS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION & TOPSOIL. EXPOSE UNDISTURBED NATURAL SUB GRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEO TECHNICAL OR ENGINEER IS ACCEPTABLE.
- AS AN ALTERNATIVE TO INSPECTION AND WRITTEN CERTIFICATION, TO BE COMPLETED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
- COMPACTED SUB BASE SHALL BE UNIFORM & LEVELLED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING 1" SIEVE.
- AS AN ALTERNATIVE TO ITEMS 2 AND 3 PROVE ROLL THE SUB GRADE SOILS WITH 5 PASSES OF A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPA 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS KOMAG RM 51E). ANY SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

- HAND OPERATED DOUBLE DRUM VIBRATORY ROLLER, COMPACTOR OR JUMPING JACK COMPACTOR.

CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT AREA, CONTRACTOR IS TO FIELD VERIFY THE PRESENCE OF EMERGENCY BACK-UP SERVICE TO THE MUX. IF EMERGENCY BACK-UP SERVICE IS NOT PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA

DESIGN

- MAXIMUM DESIGN BASIC WIND SPEED (3-SECOND GUST): 135 MPH FOR GENERATOR MODELS 50050 AND 50080, 115 MPH FOR GENERATOR MODELS 50130 AND 50150.

8' X 4' POURED IN PLACE GENERATOR PAD



500 ENTERPRISE DRIVE, SUITE 1A
ROCKY HILL, CT 06867

THIS DOCUMENT IS THE PROPERTY OF AT&T. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF AT&T. ANY UNAUTHORIZED USE OF THIS DOCUMENT IS PROHIBITED AND WILL BE SUBJECT TO LEGAL ACTION.

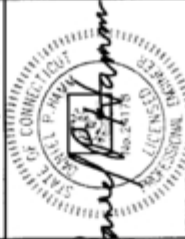


1600 OGDON STREET
BUILDING 20 NORTH, SUITE 3090
W. ANSONIA, CT 06453
PHONE: (978) 537-5245
FAX: (978) 536-5386

SITE NUMBER:
10035244

SITE NAME:
MANCHESTER SAND GRAVEL

SITE ADDRESS:
60 ADAMS STREET
MANCHESTER, CT 06040

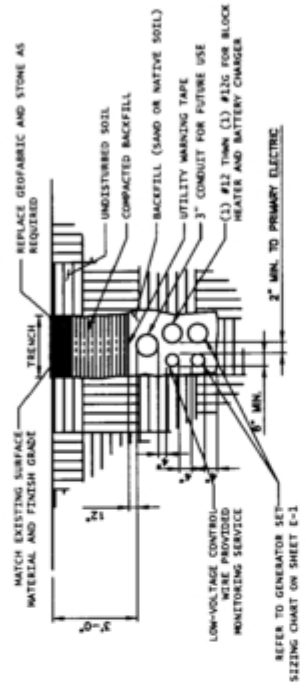


STAMP HERE
DRAWN BY: AS
CHECKED BY: BR
DATE DRAWN: 01-06-24
JOB NO.: 10889-01
SHEET TITLE:

COMPOUND
GROUNDING

SHEET NUMBER:
G-1
REV. #
0

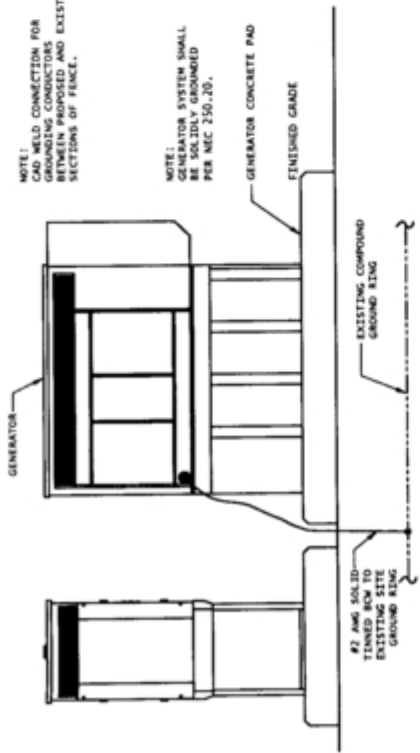
NOTES:
1. CONTRACTOR TO HAND DIG ALL NEW TRENCHES INSIDE COMPOUND.
2. SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.



② TRENCH DETAIL
SCALE: N/A

NOTE:
CAD WELD CONNECTION FOR GENERATOR SHALL BE SHOWN BETWEEN PROPOSED AND EXISTING SECTIONS OF FENCE.

NOTE:
GENERATOR SYSTEM SHALL BE GROUNDED PER NEC 250.20.



① GENERATOR ELEVATION
SCALE: N/A

NOTES:
1. ELECTRICIAN SHALL VERIFY THAT GENERATOR IS INSTALLED SO THAT ELECTRICAL BACK-FEEDS ARE PREVENTED.
2. ELECTRICIAN SHALL VERIFY THAT GROUNDING IS INSTALLED SO THAT NO CIRCULATING CURRENTS ARE POSSIBLE BY FOLLOWING DETAIL 3 SO GROUNDING IS CONNECTED TO EXISTING TOWER GROUND FIELD.
3. ALL LIGHTNING GROUNDING SHALL BE PER DETAIL 3. ALL LIGHTNING GROUNDING SHALL HAVE LOW RADIUS BENDS (MINIMUM R7').
4. ALL GROUNDING SHOULD BE INSTALLED PER CURRENT NEC, SECTION 250.
5. USE #2 AWG SOLID TINNED COPPER WIRE TO EXISTING GROUND FIELD.
6. FENCE POSTS AND GANFIELD FROM GENERATOR GROUND RING

NOTE:
CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT AREA, CONTRACTOR IS TO FIELD VERIFY THE PRESENCE OF EMERGENCY BACK-UP SERVICE TO THE MUX. IF EMERGENCY BACK-UP SERVICE IS NOT PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA

EXHIBIT 6

Constrcution Drawings

CTHA039A

60 ADAMS STREET
MANCHESTER, CT 06040
HARTFORD COUNTY

SITE NO.: CTHA039A

SITE TYPE: 141'± MONOPOLE

PROJECT TYPE: NATIONAL HARDENING PROJECT

APPROVALS

PROJECT MANAGER:	DATE:	ZONING/SITE ACQ.:	DATE:
CONSTRUCTION:	DATE:	OPERATIONS:	DATE:
RF ENGINEERING:	DATE:	TOWER OWNER:	DATE:

T-MOBILE TECHNICIAN SITE SAFETY NOTES

LOCATION	SPECIAL RESTRICTIONS
SECTOR A:	ACCESS BY CERTIFIED CLIMBER
SECTOR B:	ACCESS BY CERTIFIED CLIMBER
SECTOR C:	ACCESS BY CERTIFIED CLIMBER
SECTOR D:	ACCESS BY CERTIFIED CLIMBER
GPS/LMU:	UNRESTRICTED
RADIO CABINETS:	UNRESTRICTED
PPC DISCONNECT:	UNRESTRICTED
MAIN CIRCUIT D/C:	UNRESTRICTED
NIU/T DEMARC:	UNRESTRICTED
OTHER/SPECIAL:	NONE

GENERAL NOTES

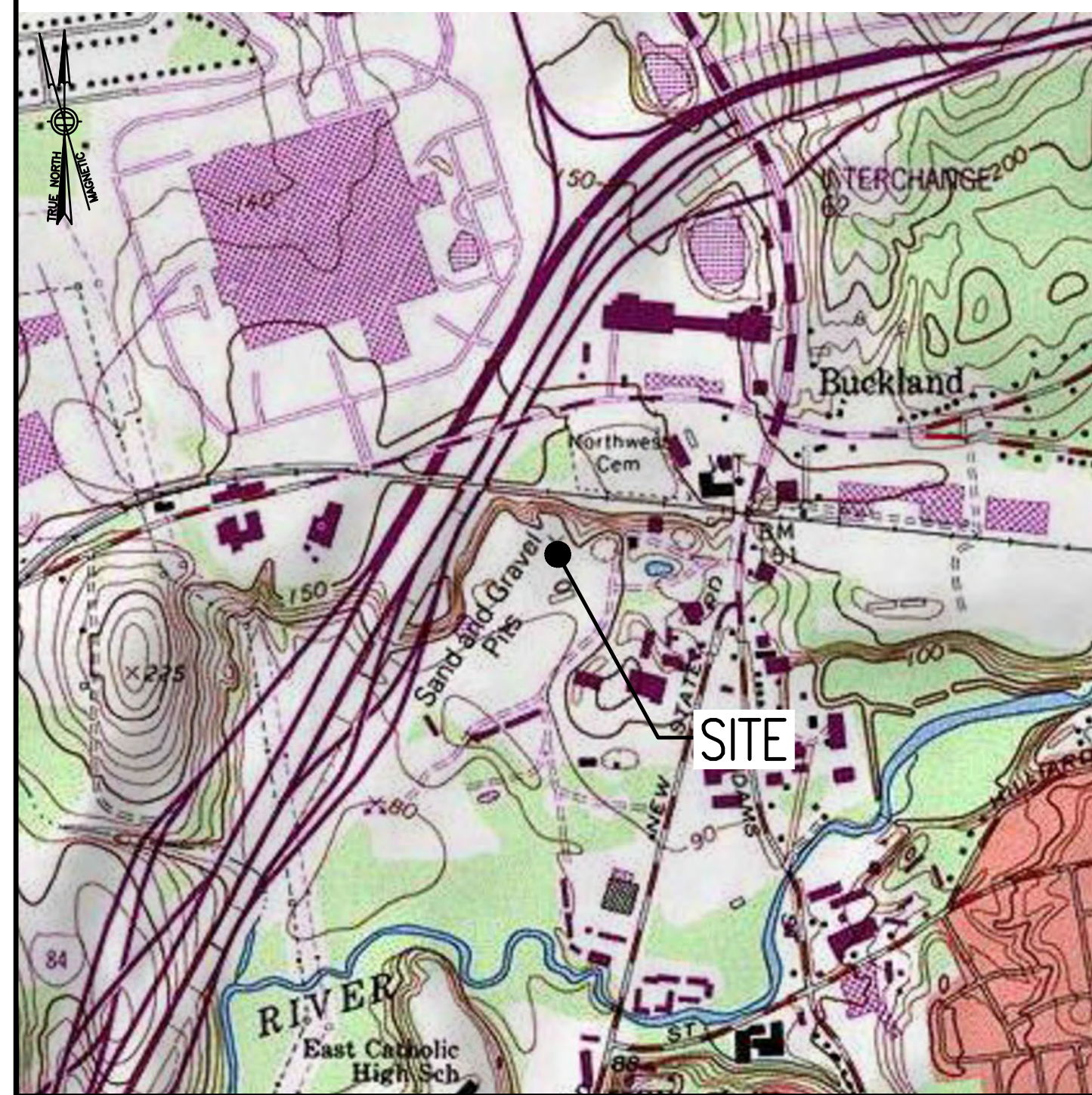
- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE OMINPOINT REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESSEE/LICENSEE REPRESENTATIVE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK.

AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 811



VICINITY MAP

SCALE: 1" = 1000'-0"



DIRECTIONS

MERGE ONTO I-495 NORTH TOWARD MANSFIELD/MARLBORO. TAKE EXIT 58 TO MERGE ONTO I-90 WEST TOWARD ALBANY. USE RIGHT 2 LANES TO TAKE EXIT 78 FOR I-84 TOWARD HARTFORD CT/NEW YORK CITY. CONTINUE ONTO I-84. KEEP LEFT TO STAY ON I-84. TAKE EXIT 60-62 TOWARD US-44/BUCKLAND STREET/MIDDLE TURNPIKE WEST. KEEP RIGHT TO CONTINUE ON EXIT 62 & FOLLOW SIGNS FOR BUCKLAND STREET. TURN RIGHT ONTO PLEASANT VALLEY ROAD. TURN RIGHT ONTO BUCKLAND STREET. CONTINUE ONTO ADAMS STREET. SITE IS LOCATED ON THE RIGHT HAND SIDE.

SHEET INDEX

SHEET NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	2
GN-1	GENERAL NOTES	2
A-1	COMPOUND & EQUIPMENT PLANS	2
A-2	GENERATOR DETAILS	2
A-3	GENERATOR SPECIFICATIONS 1	2
A-4	GENERATOR SPECIFICATIONS 2	2
E-1	ELECTRIC & GROUNDING DETAILS	2

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SCOPE OF WORK

- | | |
|------------------|-------------------------------|
| REMOVE: | INSTALL: |
| • 1 GENERATOR | • 1 GENERATOR |
| • 1 PROPANE TANK | • 1 AUTOMATIC TRANSFER SWITCH |
| | • 2 20A-1P BREAKERS |

SITE NOTES

- THIS IS AN UNMANNED AND RESTRICTED ACCESS TELECOMMUNICATION FACILITY, AND IS NOT FOR HUMAN HABITATION. IT WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNAL FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.
 - ADA COMPLIANCE NOT REQUIRED.
 - POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED.
 - NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
- NEW CONSTRUCTION WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
 - BUILDING CODE: 2018 CONNECTICUT STATE BUILDING CODE
 - ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
 - STRUCTURAL CODE: TIA/EIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

PROJECT SUMMARY

SITE NUMBER: CTHA039A
 SITE NAME: CTHA039A
 SBA SITE NUMBER: CT16504-A
 SBA SITE NAME: MANCHESTER 12, CT
 SITE ADDRESS: 60 ADAMS STREET, MANCHESTER, CT 06040
 PROPERTY OWNER: POM-POM GALL LLC, PO BOX 133, WILLIMANTIC, CT 06226
 TOWER OWNER: SBA TOWERS VIII, LLC, 8501 CONGRESS AVENUE, BOCA RATON, FL 33487, PHONE: 561-226-9523
 COUNTY: HARTFORD
 ZONING DISTRICT: INDUSTRIAL 96
 STRUCTURE TYPE: MONOPOLE
 STRUCTURE HEIGHT: 141'±
 APPLICANT: T-MOBILE NORTHEAST LLC, 15 COMMERCE WAY, SUITE B, NORTON, MA 02766
 ARCHITECT: CHAPPELL ENGINEERING ASSOCIATES, LLC, 201 BOSTON POST ROAD WEST, SUITE 101, MARLBOROUGH, MA 01752
 STRUCTURAL ENGINEER: CHAPPELL ENGINEERING ASSOCIATES, LLC, 201 BOSTON POST ROAD WEST, SUITE 101, MARLBOROUGH, MA 01752
 SITE CONTROL POINT: LATITUDE: 41.794050° N41°47'38.58", LONGITUDE: -72.555999° W72°33'21.60"

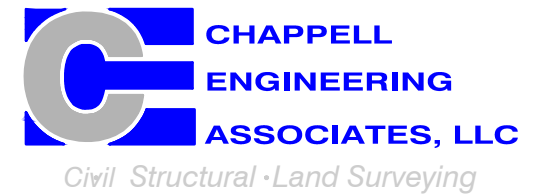
SPECIAL ZONING NOTE:
 BASED ON INFORMATION PROVIDED BY T-MOBILE REGULATORY COMPLIANCE PROFESSIONALS AND LEGAL COUNSEL, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS CONSIDERED AN ELIGIBLE FACILITY UNDER THE MIDDLE CLASS TAX RELIEF AND JOB CREATION ACT OF 2012, 47 USC 1455(A), SECTION 6409(A), AND IS SUBJECT TO AN ELIGIBLE FACILITY REQUEST, EXPEDITED REVIEW, AND LIMITED/PARTIAL ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW, OR ADMINISTRATIVE REVIEW).

T-MOBILE NORTHEAST LLC

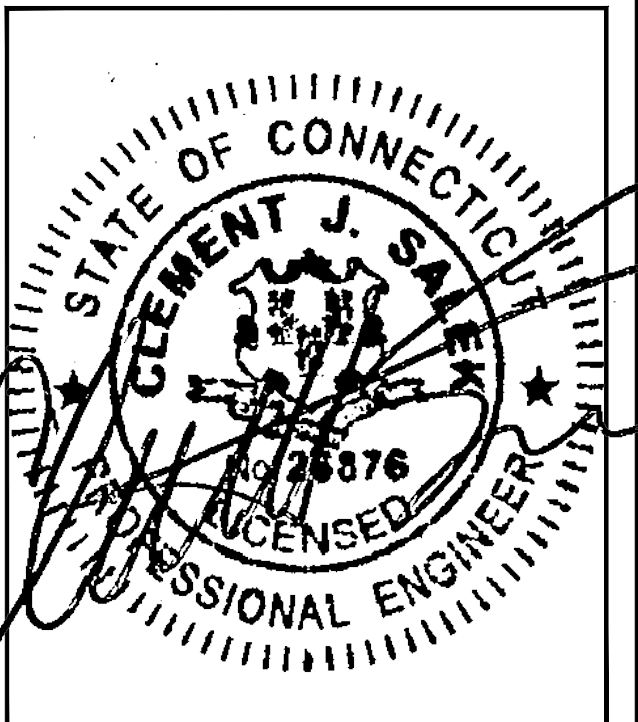
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
(508) 251-0720



R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
2	08/24/21	CONSTRUCTION REVISED	CMC
1	08/19/21	ISSUED FOR CONSTRUCTION	CMC
0	08/04/21	ISSUED FOR REVIEW	CMC

SITE NUMBER:
CTHA039A

SITE ADDRESS:
60 ADAMS STREET
MANCHESTER, CT 06040

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR – T-MOBILE
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
OWNER – T-MOBILE
OEM – ORIGINAL EQUIPMENT MANUFACTURER
- 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.
- 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, STATE AND FEDERAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1 CABLES AND 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 AND/OR LANDLORD PRIOR TO CONSTRUCTION.
- 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 THE OWNER.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
- THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- SUBCONTRACTOR SHALL NOTIFY CHAPPELL ENGINEERING ASSOCIATES, LLC 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
- CONSTRUCTION SHALL COMPLY WITH ALL T-MOBILE STANDARDS AND SPECIFICATIONS.
- 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.
- THE EXISTING CELL SITES ARE 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.
- IF THE EXISTING 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 TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

SITE WORK GENERAL NOTES:

- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE T-MOBILE SPECIFICATION FOR SITE SIGNAGE.

CONCRETE AND REINFORCING STEEL NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (400PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 381 CODE REQUIREMENTS
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNDO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH.....3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER2 IN.
#5 AND SMALLER & WWF1½ IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL¾ IN.
BEAMS AND COLUMNS½ IN.
- A CHAMFER ¾" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPEL GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY SIMPSON OR APPROVED EQUAL.
- CONCRETE CYLINDER TIES ARE NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER;
(A) RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIERS PLANT.
(B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.
FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.
- AS AN ALTERNATIVE TO ITEM 7. TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.
- EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

- ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND T-MOBILE SPECIFICATIONS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (¾") AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE GALVANIZED OR STAINLESS STEEL.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE ¾" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
- AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
- COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING #1 SIEVE.
- AS AN ALTERNATE TO ITEMS 2 AND 3, THE SUBGRADE SOILS WITH 5 PASSES OR A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). AND SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

- HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

CONSTRUCTION NOTES:

- FIELD VERIFICATION:
SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, T-MOBILE ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.
- COORDINATION OF WORK:
SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
- CABLE LADDER RACK:
SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY AND/OR ICE BRIDGE, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

ELECTRICAL INSTALLATION NOTES:

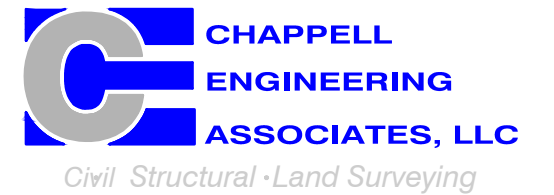
- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
- SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLE TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
- POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY HARGER (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/IEEE AND NEC.
- NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/IEEE AND NEC.
- CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

**T-MOBILE
NORTHEAST LLC**

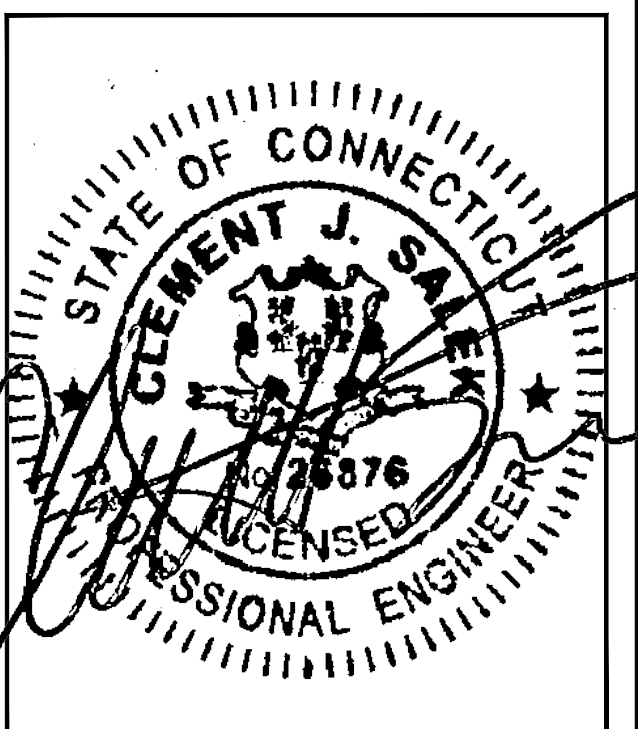
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
(508) 251-0720



R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
2	08/24/21	CONSTRUCTION REVISED	CMC
1	08/19/21	ISSUED FOR CONSTRUCTION	CMC
0	08/04/21	ISSUED FOR REVIEW	CMC

SITE NUMBER:
CTHA039A

SITE ADDRESS:
60 ADAMS STREET
MANCHESTER, CT 06040

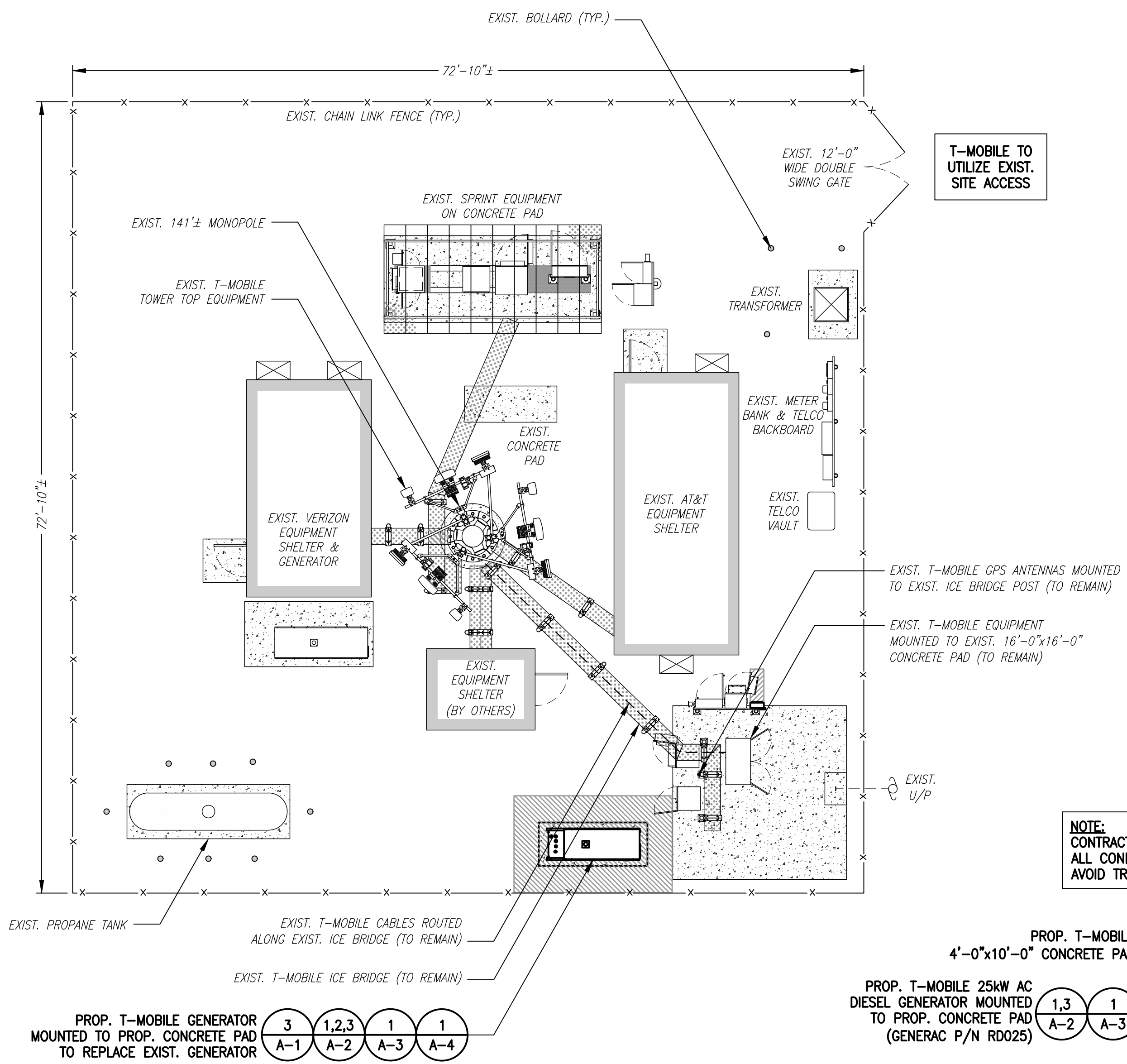
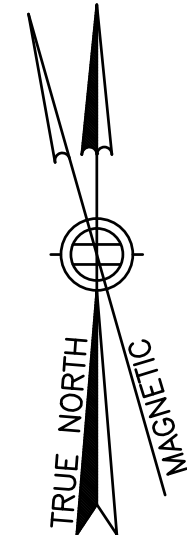
SHEET TITLE

GENERAL NOTES

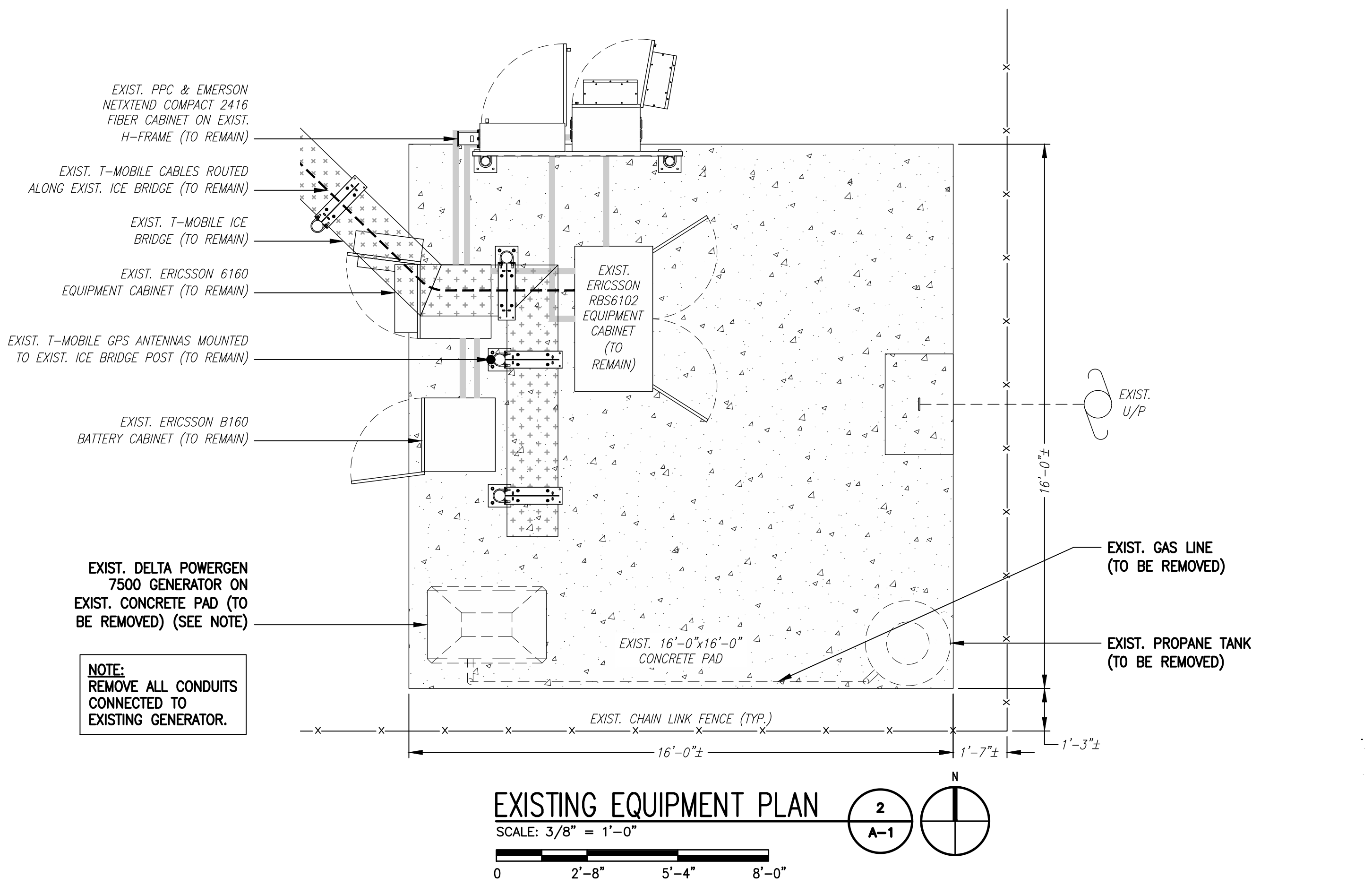
SHEET NUMBER

GN-1

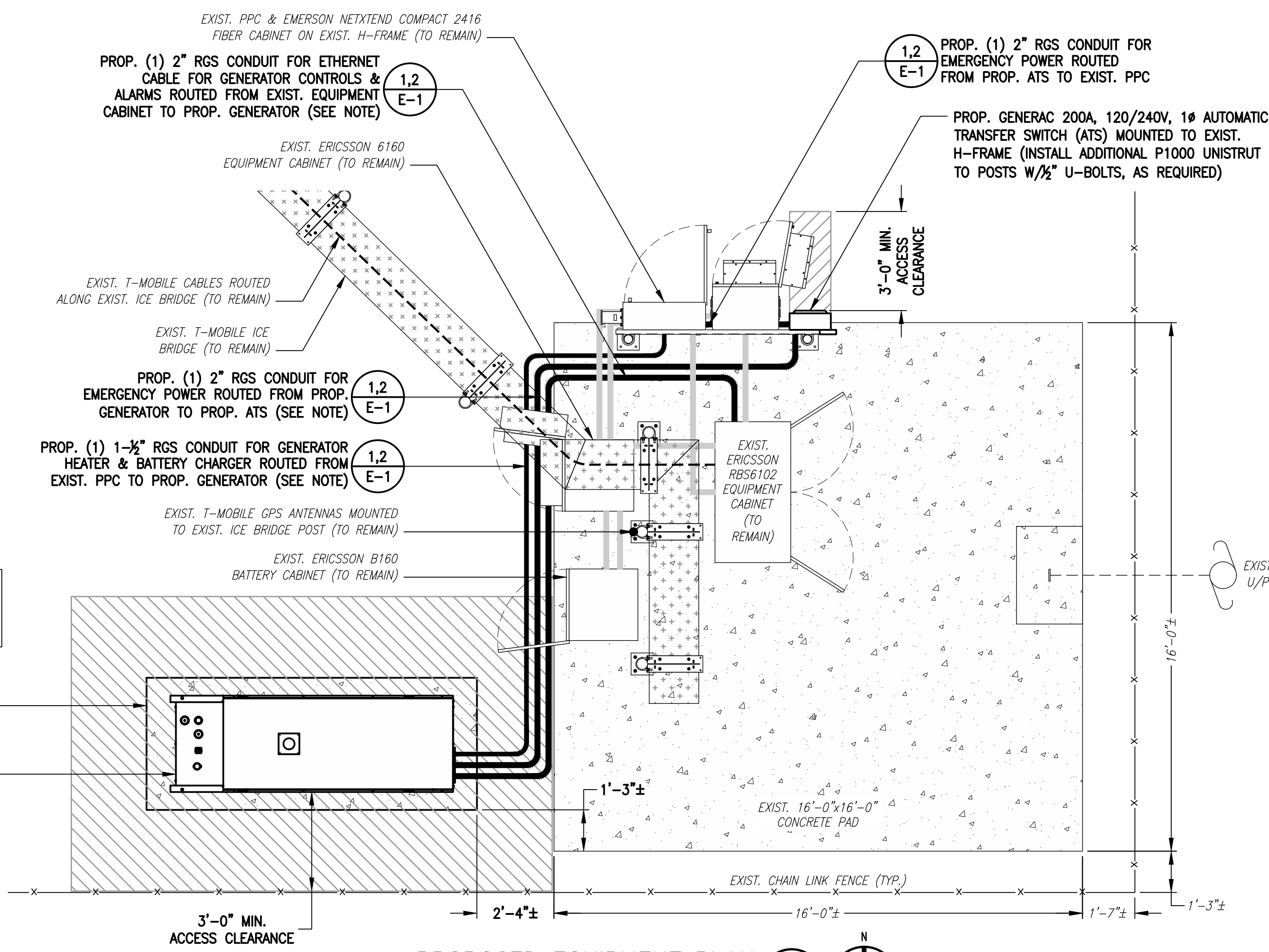
SPECIAL CONSTRUCTION WORK NOTE (HAND DUG UTILITY TRENCH EXCAVATION REQUIRED):
 EXISTING UNDERGROUND UTILITY LOCATIONS ARE UNKNOWN. GENERAL CONTRACTOR SHALL HAND-EXCAVATE TO REQUIRED SUB-GRADE DEPTH SUFFICIENT TEST HOLES OR AS DIRECTED/REQUIRED BY SBA REGIONAL SITE MANAGER SHALL HAND-EXCAVATE ALL PROPOSED UNDERGROUND UTILITY TRENCHES. GENERAL CONTRACTOR RESPONSIBLE FOR ANY REQUIRED SPECIAL TEMPORARY PROTECTION OF EXISTING UNDERGROUND UTILITIES, PHYSICAL DAMAGE REPAIR, AND SERVICE RESTORATION.



COMPOUND PLAN
 SCALE: 1/8" = 1'-0"
 0 8' 16' 24'



EXISTING EQUIPMENT PLAN
 SCALE: 3/8" = 1'-0"
 0 2'-8" 5'-4" 8'-0"



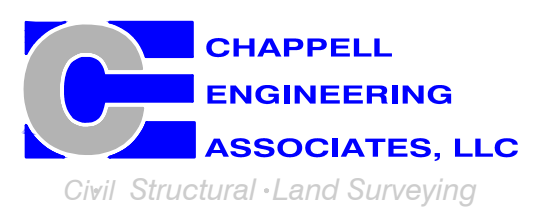
PROPOSED EQUIPMENT PLAN
 SCALE: 3/8" = 1'-0"
 0 2'-8" 5'-4" 8'-0"

**T-MOBILE
 NORTHEAST LLC**

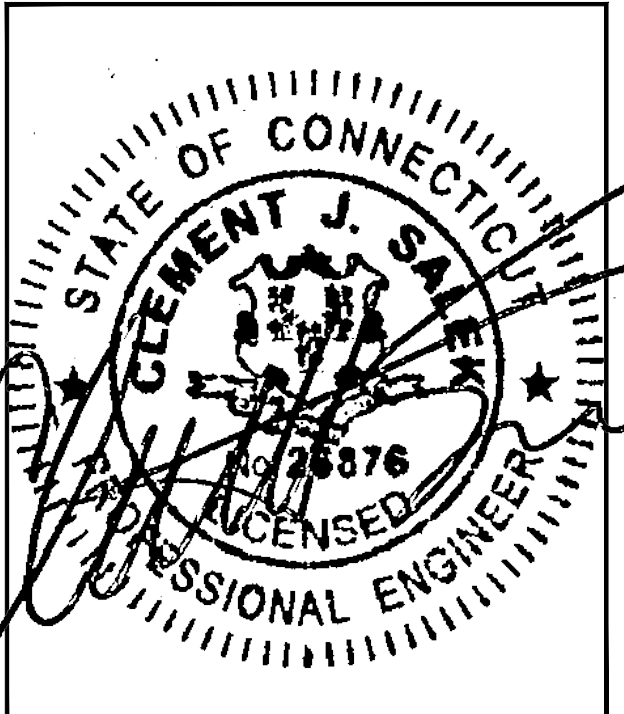
15 COMMERCE WAY, SUITE B
 NORTON, MA 02766
 (508) 286-2700



SBA COMMUNICATIONS CORP.
 134 FLANDERS ROAD, SUITE 125
 WESTBOROUGH, MA 01581
 (508) 251-0720



R.K. EXECUTIVE CENTRE
 201 BOSTON POST ROAD WEST, SUITE 101
 MARLBOROUGH, MA 01752
 (508) 481-7400
 www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
2	08/24/21	CONSTRUCTION REVISED	CMC
1	08/19/21	ISSUED FOR CONSTRUCTION	CMC
0	08/04/21	ISSUED FOR REVIEW	CMC

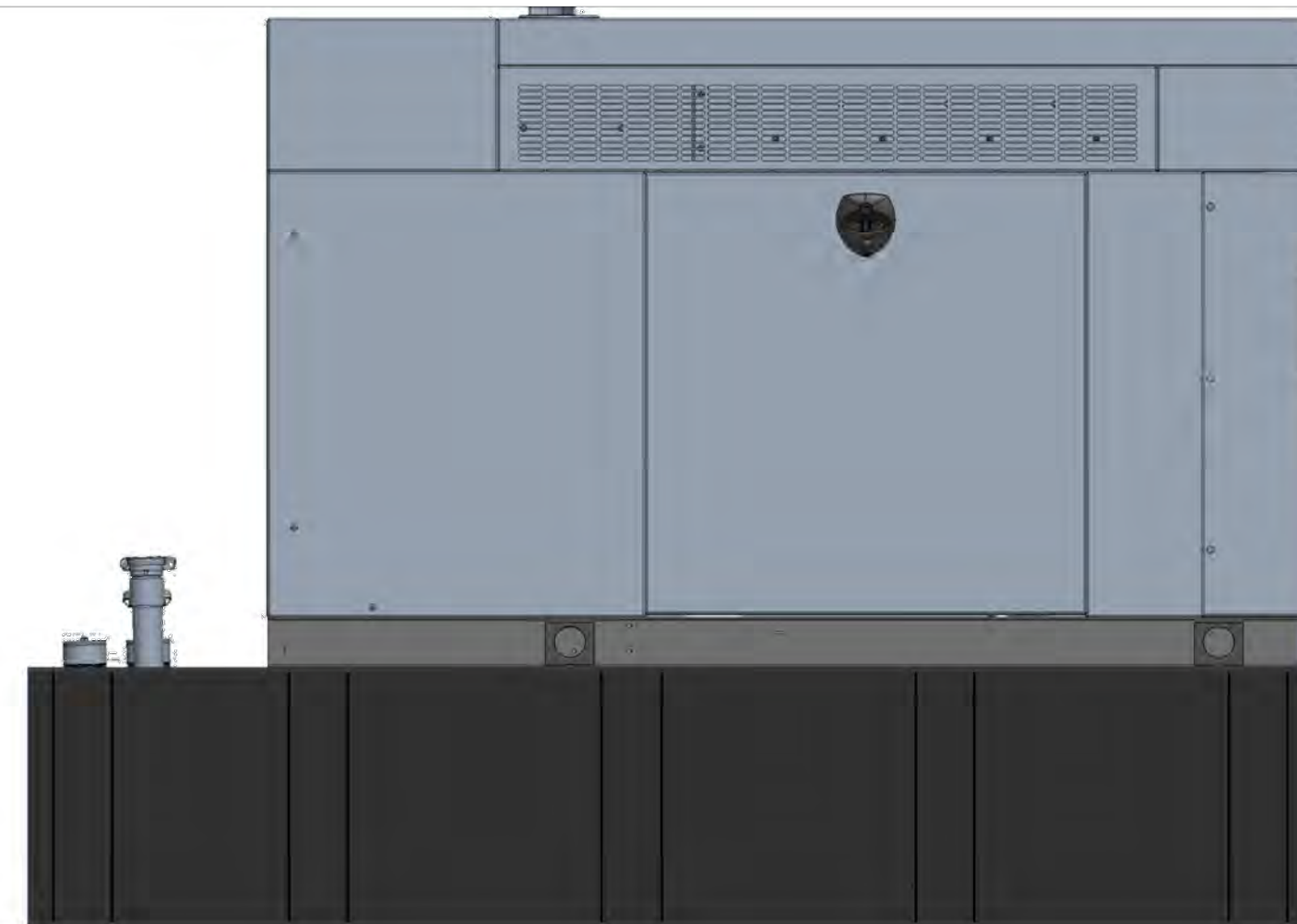
SITE NUMBER:
CTHA039A

SITE ADDRESS:
 60 ADAMS STREET
 MANCHESTER, CT 06040

SHEET TITLE
**COMPOUND &
 EQUIPMENT PLAN**

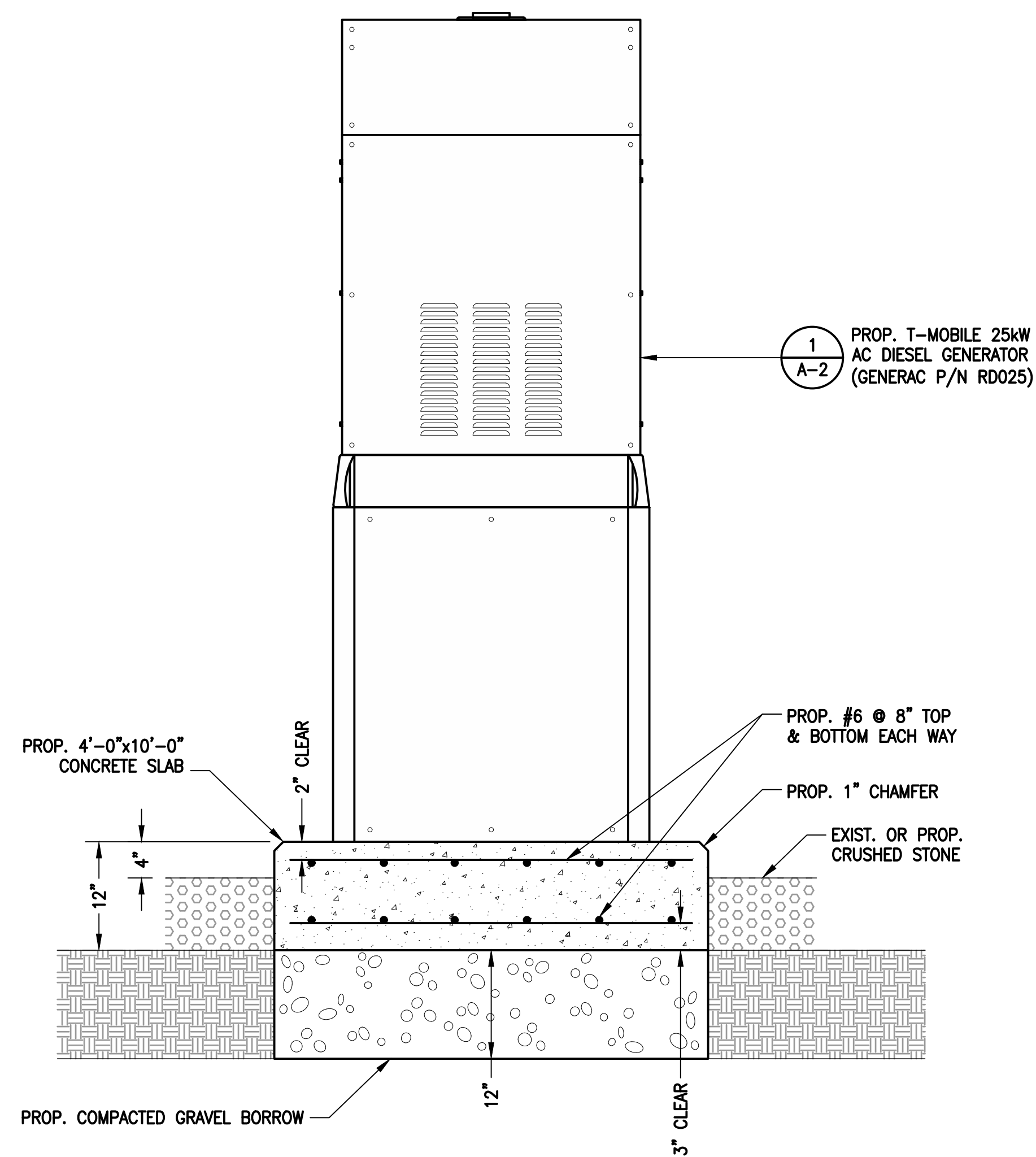
SHEET NUMBER
A-1

NOTE:
GENERATOR DIESEL TANK TO
BE FILLED BY CONTRACTOR

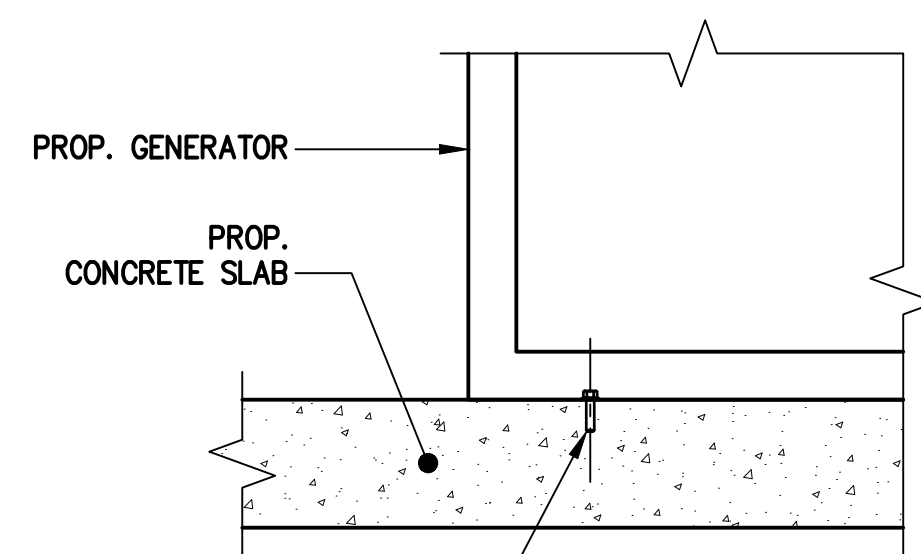


GENERAC RD025 25kW AC DIESEL GENERATOR
 DIMENSIONS: 103.4"L x 35.0"W x 91.7"H
 WEIGHT: 2,946 lbs
 QUANTITY: TOTAL OF 1

GENERATOR DETAIL 1
A-2
 SCALE: N.T.S.



GENERATOR PAD DETAIL 2
A-2
 SCALE: N.T.S.



PROP. 1/2" HILTI KWIK BOLT TZ STAINLESS
 STEEL ANCHOR BOLT WITH 2" MIN.
 EMBEDMENT IN CONCRETE 1CC-ESR-1917,
 LARR 25701, EACH CORNER PER
 MANUFACTURER'S SPECIFICATIONS (TYP.)
 (SPECIAL INSPECTION REQUIRED)

NOTE:
CONTRACTOR TO VERIFY 3"
 MIN. FROM EDGE OF CONCRETE
 TO NEW MOUNTING BOLT.

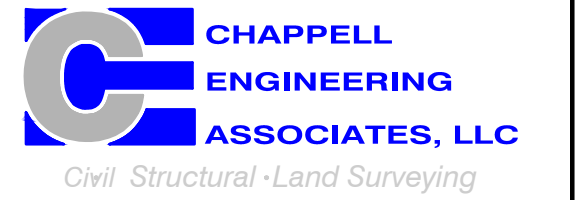
GENERATOR MOUNTING DETAIL 3
A-2
 SCALE: N.T.S.

**T-MOBILE
NORTHEAST LLC**

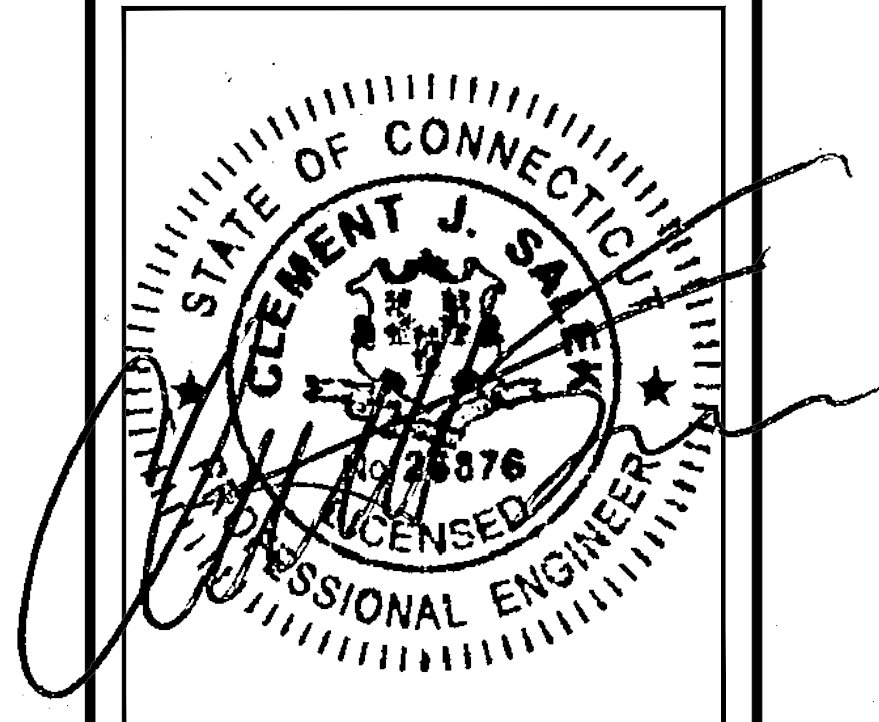
15 COMMERCE WAY, SUITE B
 NORTON, MA 02766
 (508) 286-2700



SBA COMMUNICATIONS CORP.
 134 FLANDERS ROAD, SUITE 125
 WESTBOROUGH, MA 01581
 (508) 251-0720



R.K. EXECUTIVE CENTRE
 201 BOSTON POST ROAD WEST, SUITE 101
 MARLBOROUGH, MA 01752
 (508) 481-7400
 www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
2	08/24/21	CONSTRUCTION REVISED	CMC
1	08/19/21	ISSUED FOR CONSTRUCTION	CMC
0	08/04/21	ISSUED FOR REVIEW	CMC

SITE NUMBER:
CTHA039A

SITE ADDRESS:
60 ADAMS STREET
MANCHESTER, CT 06040

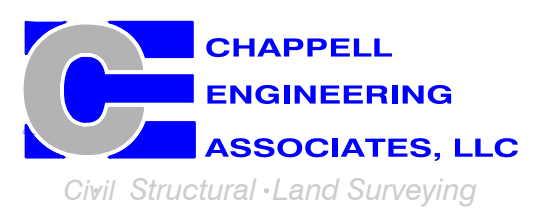
SHEET TITLE
GENERATOR DETAILS

SHEET NUMBER
A-2

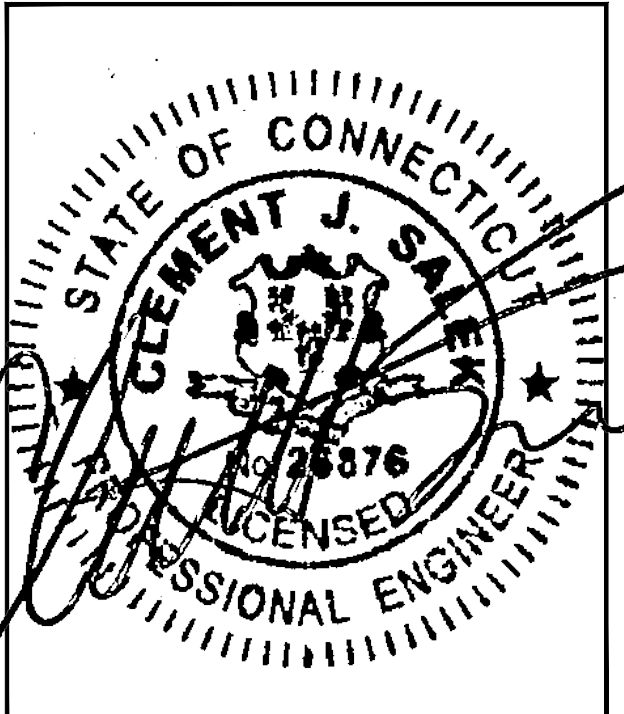
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
(508) 251-0720



R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

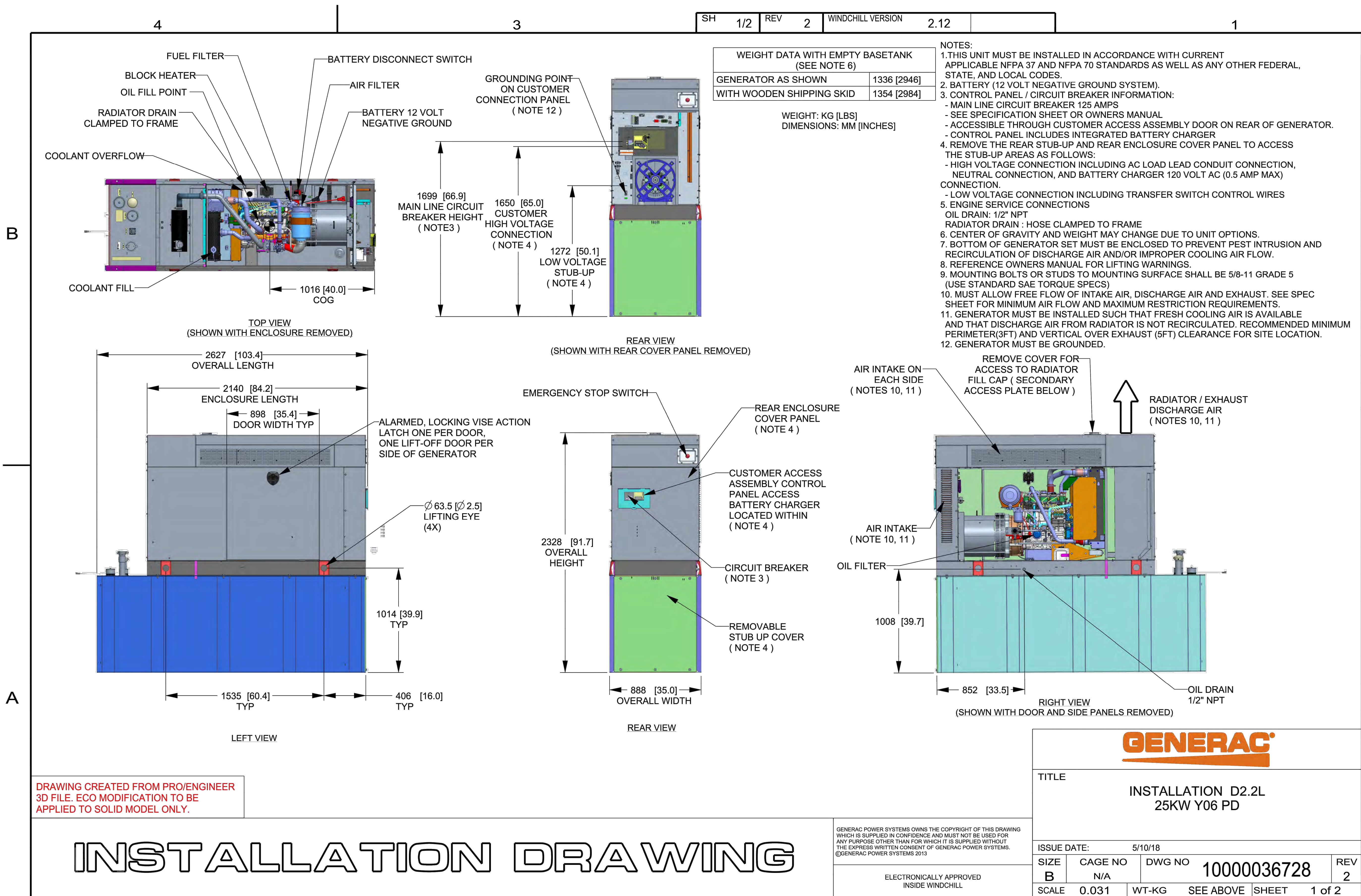
SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
2	08/24/21	CONSTRUCTION REVISED	CMC
1	08/19/21	ISSUED FOR CONSTRUCTION	CMC
0	08/04/21	ISSUED FOR REVIEW	CMC

SITE NUMBER:
CTHA039A

SITE ADDRESS:
60 ADAMS STREET
MANCHESTER, CT 06040

SHEET TITLE
GENERATOR SPECIFICATIONS 1

SHEET NUMBER
A-3



DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

INSTALLATION DRAWING

GENERAC POWER SYSTEMS OWNS THE COPYRIGHT OF THIS DRAWING WHICH IS SUPPLIED IN CONFIDENCE AND MUST NOT BE USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS SUPPLIED WITHOUT THE EXPRESS WRITTEN CONSENT OF GENERAC POWER SYSTEMS. ©GENERAC POWER SYSTEMS 2013

ELECTRONICALLY APPROVED INSIDE WINDCHILL

GENERAC

TITLE
**INSTALLATION D2.2L
25KW Y06 PD**

ISSUE DATE: 5/10/18

SIZE	CAGE NO	DWG NO	REV
B	N/A	10000036728	2

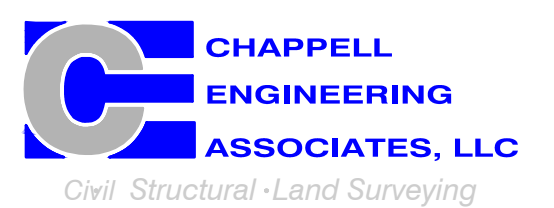
SCALE 0.031 WT-KG SEE ABOVE SHEET 1 of 2

T-MOBILE
NORTHEAST LLC

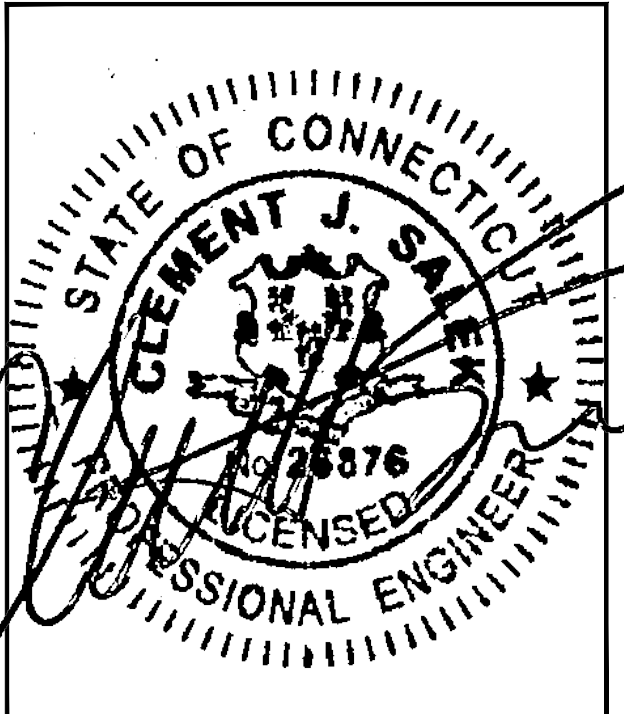
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
(508) 251-0720



R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

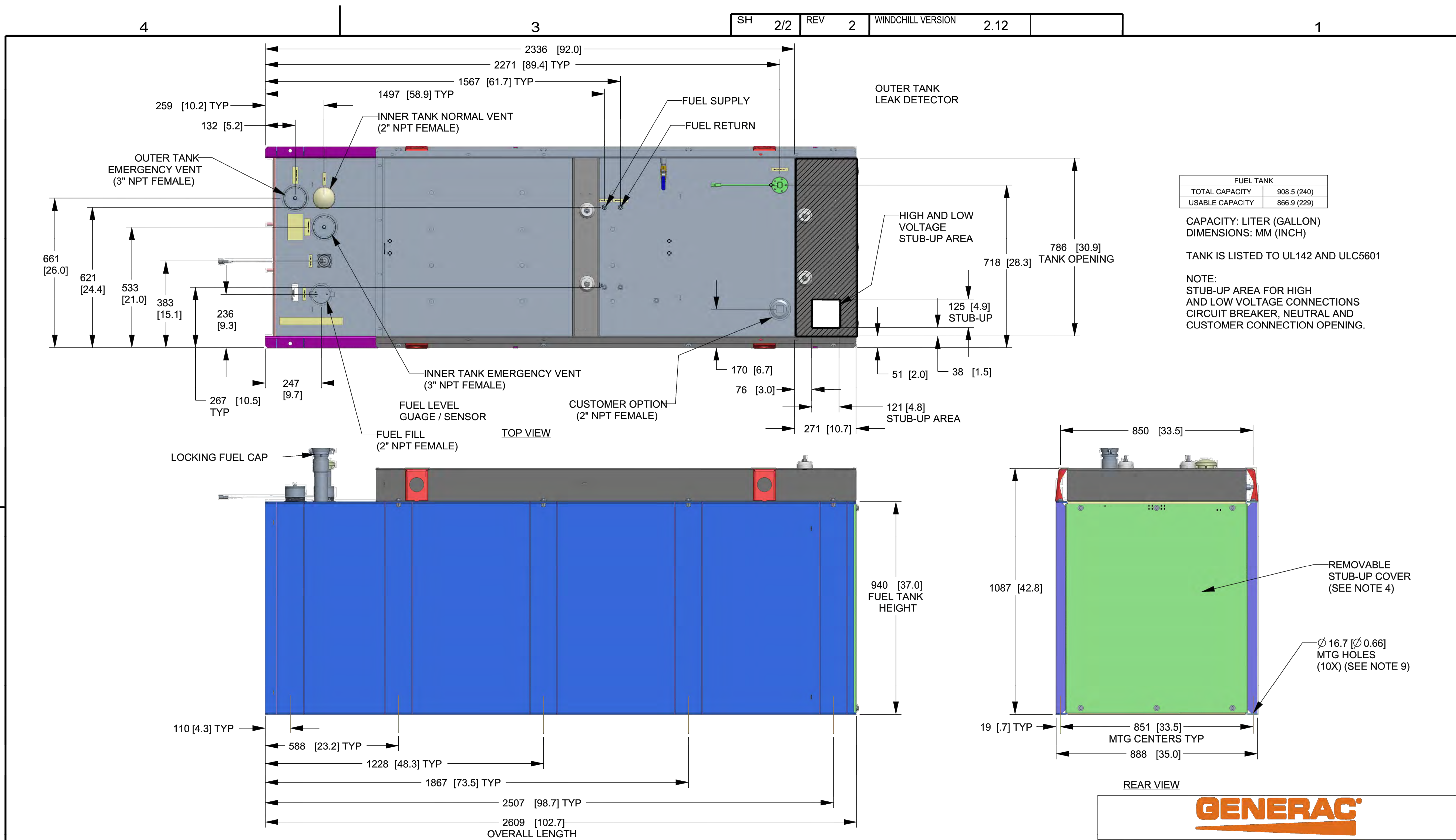
SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
2	08/24/21	CONSTRUCTION REVISED	CMC
1	08/19/21	ISSUED FOR CONSTRUCTION	CMC
0	08/04/21	ISSUED FOR REVIEW	CMC

SITE NUMBER:
CTHA039A

SITE ADDRESS:
60 ADAMS STREET
MANCHESTER, CT 06040

SHEET TITLE
GENERATOR SPECIFICATIONS 2

SHEET NUMBER
A-4



FUEL TANK	
TOTAL CAPACITY	908.5 (240)
USABLE CAPACITY	866.9 (229)

CAPACITY: LITER (GALLON)
DIMENSIONS: MM (INCH)

TANK IS LISTED TO UL142 AND ULC5601

NOTE:
STUB-UP AREA FOR HIGH AND LOW VOLTAGE CONNECTIONS
CIRCUIT BREAKER, NEUTRAL AND CUSTOMER CONNECTION OPENING.

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

GENERAC POWER SYSTEMS OWNS THE COPYRIGHT OF THIS DRAWING WHICH IS SUPPLIED IN CONFIDENCE AND MUST NOT BE USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS SUPPLIED WITHOUT THE EXPRESS WRITTEN CONSENT OF GENERAC POWER SYSTEMS. ©GENERAC POWER SYSTEMS 2013

ELECTRONICALLY APPROVED INSIDE WINDCHILL

GENERAC

TITLE
**INSTALLATION D2.2L
25KW Y06 PD**

ISSUE DATE: 5/10/18

SIZE B	CAGE NO N/A	DWG NO 10000036728	REV 2
SCALE 0.063	WT-KG SEE ABOVE	SHEET 2 of 2	

INSTALLATION DRAWING

T-MOBILE NORTHEAST LLC

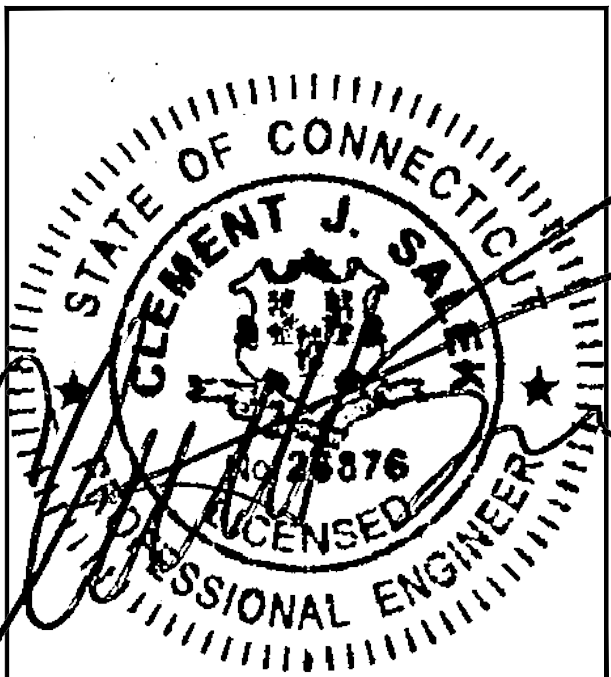
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
(508) 251-0720



R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
2	08/24/21	CONSTRUCTION REVISED	CMC
1	08/19/21	ISSUED FOR CONSTRUCTION	CMC
0	08/04/21	ISSUED FOR REVIEW	CMC

SITE NUMBER:
CTHA039A

SITE ADDRESS:
60 ADAMS STREET
MANCHESTER, CT 06040

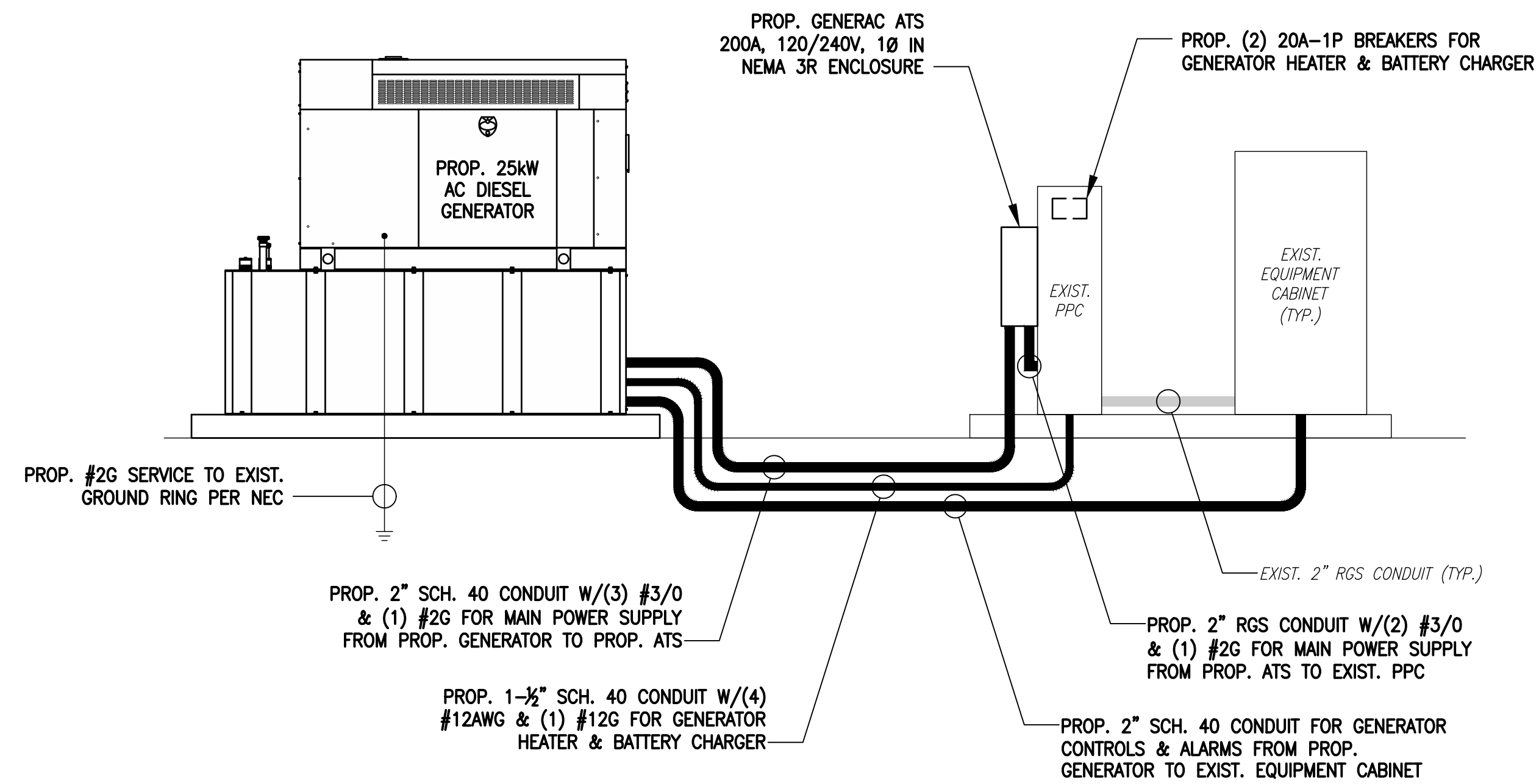
SHEET TITLE

**ELECTRIC & GROUNDING
DETAILS**

SHEET NUMBER

E-1

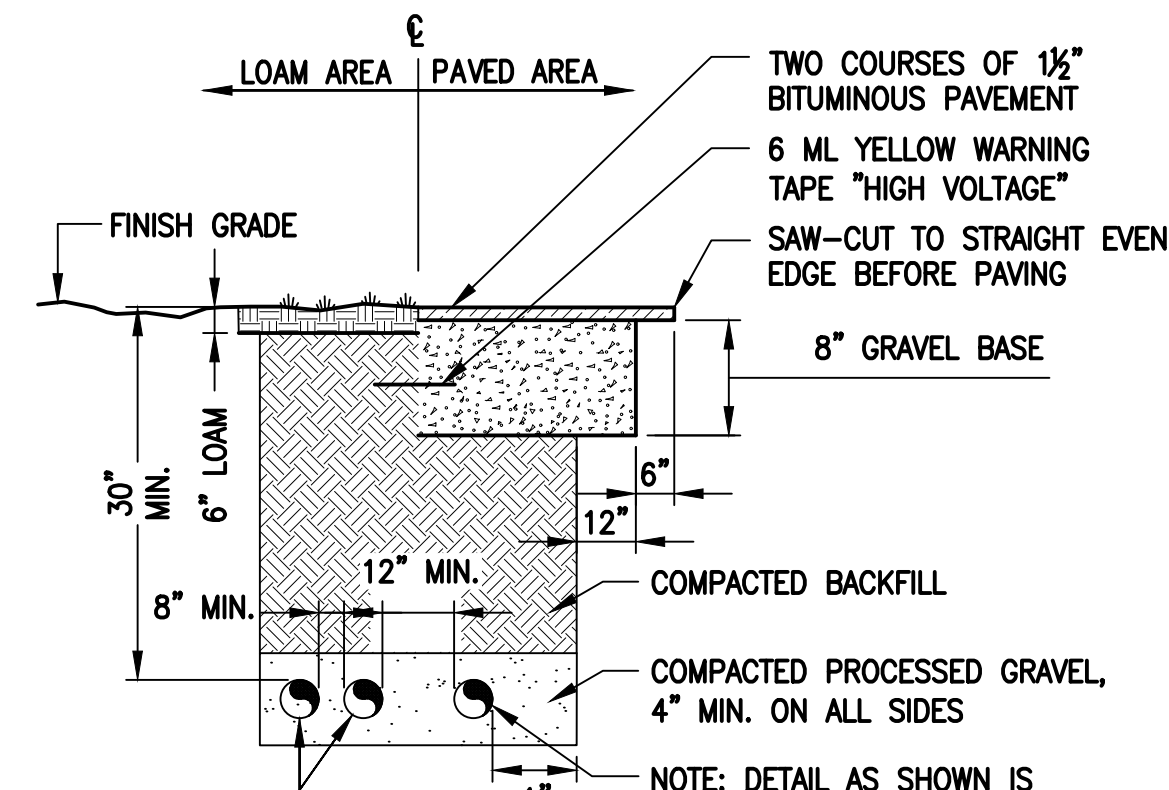
NOTE:
CUT BACK (E) MAIN POWER CONDUIT, AS
REQUIRED, & RECONNECT TO (P) ATs.



ONE-LINE POWER DIAGRAM

SCALE: NOT TO SCALE

1
E-1

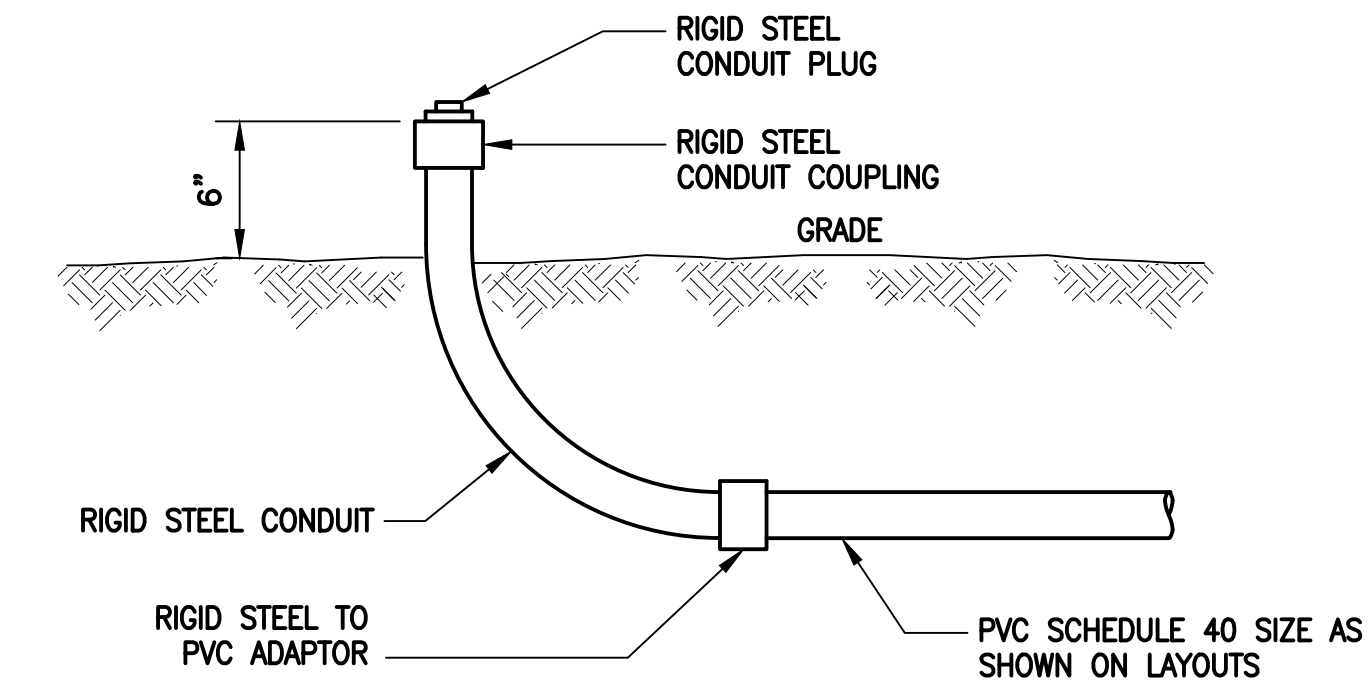


SCHEDULE 40 CONDUITS FOR NEW ELECTRICAL AND TELEPHONE SERVICES. SEE UTILITY AND SITE PLANS. PROVIDE APPROVED PULL BOXES AS REQUIRED, AND COORDINATE INSTALLATION W/ALL UTILITY COMPANIES FOR INTERFACING AT TERMINATION POINTS. PROVIDE FULL LENGTH PULL ROPES (TYP.).

BURIED CONDUIT DETAIL

SCALE: NOT TO SCALE

2
E-1



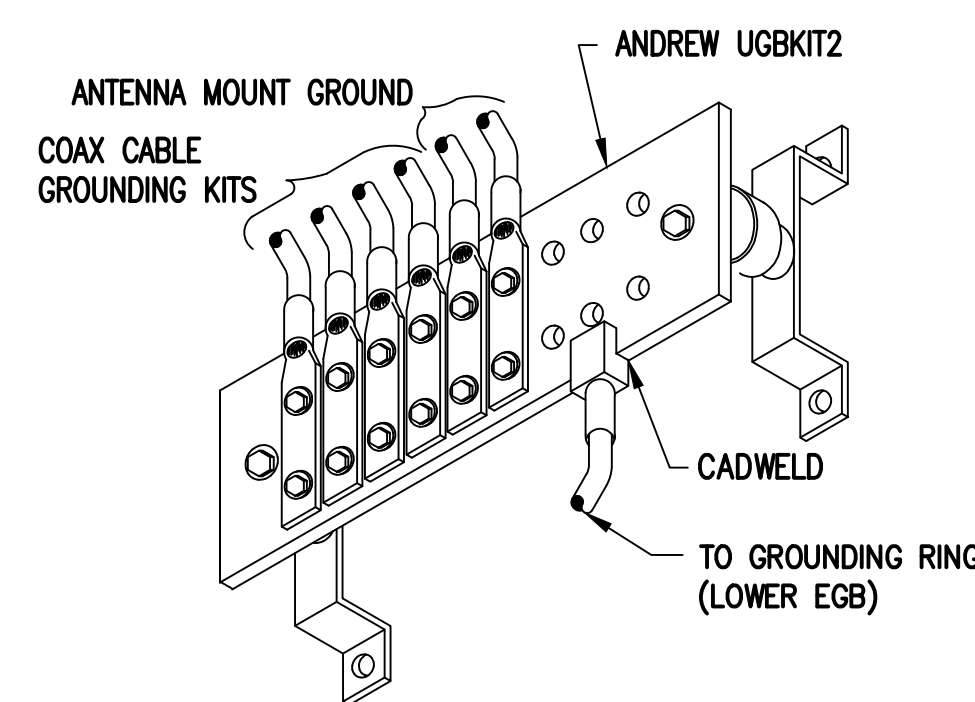
TYPICAL CONDUIT STUB-UP DETAIL

SCALE: NONE

3
E-1

ELECTRICAL AND GROUNDING NOTES

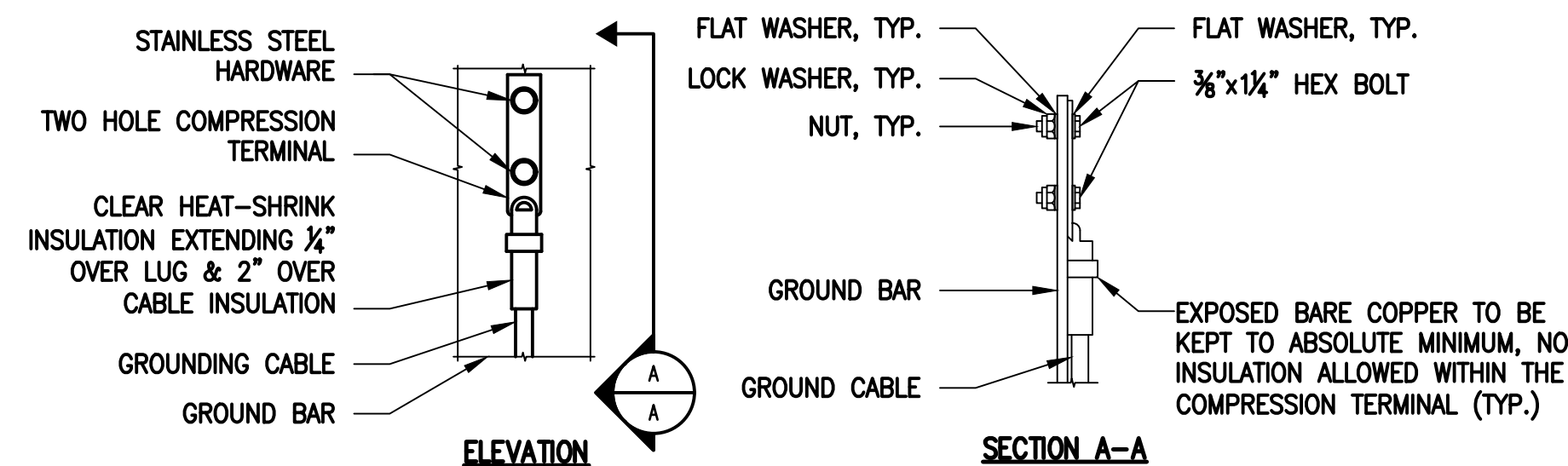
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED 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. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
- 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 HYSGROUND 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" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXIST. TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE-OUT.



GROUND BAR (EGB)

SCALE: NOT TO SCALE

4
E-1



NOTES:

- "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
- OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
- CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB AND MGB.

TYPICAL GROUND BAR CONNECTIONS DETAIL

SCALE: NOT TO SCALE

5
E-1

EXHIBIT 4

Generac RD025 25 KW
25kw Diesel Specifications

RD025 | 2.2L | 25 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

Standby Power Rating

25 kW, 31.25 kVA, 60 Hz



Image used for illustration purposes only




Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.


 UL2200, UL508, UL489, UL142


 CSA 22.2

 BS5514 and DIN 6271

 SAE J1349

 NFPA 37, 70, 99

 ISO 3046, 8528, 9001

 NEMA ICS1, ICS10, MG1, 250, ICS6, AB1

 ANSI/IEEE C62.41

Powering Ahead

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

Standard Features

ENGINE SYSTEM

- Cold Weather Kit
- Oil Drain Extension
- Heavy Duty Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil & Coolant
- Critical Exhaust Silencer

GENERATOR SET

- Sound Attenuated Aluminum Enclosure
- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Wrapped Exhaust Piping
- Standard Factory Testing
- 5 Year Limited Warranty
- Ready to Accept Full Load in <10 Seconds
- E-Stop

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor
- Smart Battery Charger

ALTERNATOR SYSTEM

- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Sealed Bearings
- Low Temperature Rise (>120°C)
- Low THD (<5%)

Cooling System

- Closed Coolant Recovery System
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension
- Can Operate at up to 122°F (50°C) Ambient Temperature

Fuel System

- Fuel Lockoff Solenoid
- Primary Fuel Filter
- Stainless Steel Fuel Lines

TANKS

- 24 Hour Run Time Tank
- UL142 Listed Tank

CONTROL SYSTEM



Evolution™ Controller

- Two-Line Plain Text LCD Display
- Programmable Start Delay Between 10-30 seconds
- 10 second Engine Start Sequence
- 5 second Engine Warm Up
- 1 minute Engine Cool-Down
- Starter Lock-Out
- Smart Battery Charger
- Automatic Voltage Regulation with Over and Under Protection
- Automatic Low Oil Pressure Shutdown
- Overspeed Shutdown
- High Temperature Shutdown
- Overcrank Protection
- Safety Fused
- Failure to Transfer Protection
- Low Battery Protection
- 50 Even Run Log
- Future Set Capable Exerciser
- Incorrect Wiring Protection
- Internal Fault Protection
- Common External Fault Capability
- Governor Failure Protection

Optional Shipped Loose and Field Install Kits

ENGINE SYSTEM

- Base Plug Kit

GENERATOR SET

- Paint Kit
- Scheduled Maintenance Kit

CONTROL SYSTEM

- Mobile Link™ and Adapter Kit

TANKS

- Spill Box
- 90% Fuel Alarm
- Tank Risers
- Spill Box Drainback Kit
- Vent Extension Support Kit
- 5 Day Run Time Tank

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Perkins
EPA Emission Compliance	Tier 4 Interim
Cylinder #	4
Type	In-Line
Displacement - in ³ (L)	2.22 (135)
Bore - in (mm)	3.3 (84.0)
Stroke - in (mm)	3.9 (100.0)
Compression Ratio	23.3:1
Intake Air Method	Turbocharged/Aftercooled
Piston Type	Aluminum
Crankshaft Type	Forged Steel
Engine Block Type	Cast Iron

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow Cartridge
Crankcase Capacity with Filters- qt (L)	11.2 (10.6)

Cooling System

Cooling System Type	Closed Recovery
Fan Type	Pusher
Fan Speed- rpm	1,980
Fan Diameter - in (mm)	18.0 (457.2)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specification	ASTM
Fuel Pump Type	Mechanical Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Lin (mm/in)	7.94/0.31 (ID)
Fuel Return Line (mm/in)	4.76/.19 (ID)
Fuel Filtering (microns)	25

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	Generac
Poles	4
Field Type	Rotating
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	<50

Standard Excitation	Direct
Bearings	Single Sealed
Coupling	Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	2
Regulation Accuracy (Steady State)	±1%

RD025 | 2.2L | 25 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

		Standby
Single-Phase 120/480 VAC @0.1pf	25 kW	Amps: 104
Three-Phase 120/208 VAC @0.8pf	25 kW	Amps: 87
Three-Phase 120/240 VAC @0.8pf	25 kW	Amps: 75
Three-Phase 277/480 VAC @0.8pf	25 kW	Amps: 37

MOTOR STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip at 30%

120/240 V, Single-Phase at 0.4pf	168
120/208 V, Three-Phase at 0.4pf	144
120/240 V, Three-Phase at 0.4pf	125
120/240 V, Three-Phase at 0.4pf	64

FUEL CONSUMPTION RATES*

Percent Load	Diesel gal/hr (L/hr)
25%	0.97 (3.67)
50%	1.37 (5.19)
75%	1.97 (7.46)
100%	2.77 (10.49)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Air Flow (Radiator and Alternator)	ft ³ /min (m ³ /min)	2800 (79)
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (MJ/hr)	128,638 (135.7)
Max. Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 0199270SSD	
Maximum Radiator Backpressure	in H ₂ O (kPa)	0.50 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power ft ³ /min (m ³ /min)	88 (2.5)

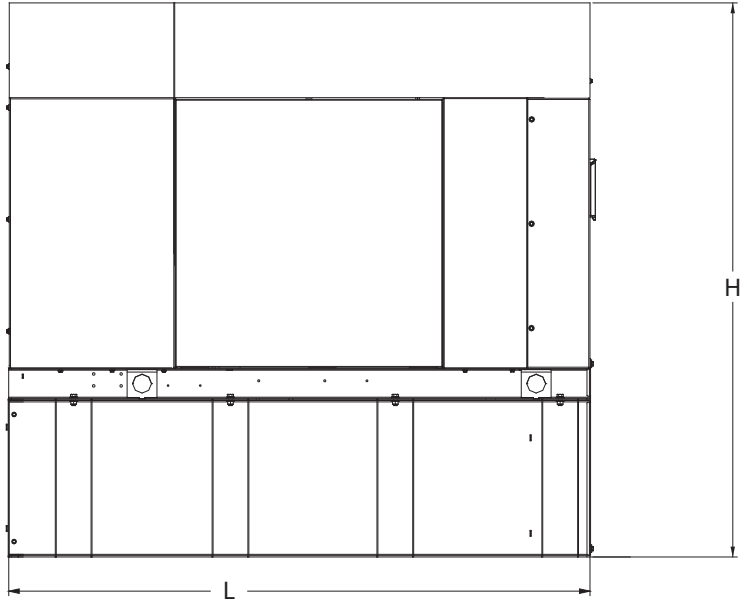
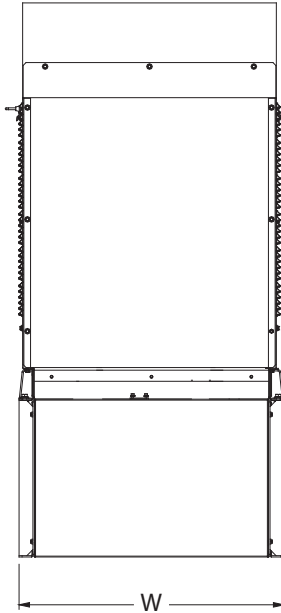
ENGINE

EXHAUST

ENGINE			EXHAUST		
		Standby			Standby
Rated Engine Speed	rpm	1,800	Exhaust Flow (Rated Output)	ft ³ /min (m ³ /min)	296.6 (8.4)
			Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	930 (499)

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards. Standby - See Bulletin 0187500SSB

DIMENSIONS AND WEIGHTS*



Weights and Dimensions

Unit Weight - lbs	Unit Weight with Skid - lbs	Dimensions (L x W x H) in
2,811	2,849	84.2 x 35.0 x 91.7

25kW Fuel Consumption

Fuel Tank Gross Total Capacity	240
Fuel Tank Gross Usable Capacity	229
Fuel Tank Net Usable Capacity (Run Hours Based on Net Usable Capacity)	206
Run Hours 100% Load	98
Run Hours 75% Load	125
Run Hours 50% Load	161

**with fuel tank
103.4" 35" x 91.7"**

Sound Emission Data

Rated Load Sound Output at 23ft - dB(A)	65
---	----

* All measurements are approximate and for estimation purposes only. Drawing is for illustration purposes only, not to scale.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

EXHIBIT 5

Map showing nearest wetlands



BASEMAPS >

MAP LAYERS >

- Wetlands ① ②
- Riparian ① ②
- Riparian Mapping Areas ① ②
- Data Source ① ②
 - Source Type
 - Image Scale
 - Image Year
- Areas of Interest ①
- FWS Managed Lands ① ②
- Historic Wetland Data ① ②



1:9,028
41.796 | -72.566