



Filed by:
Kri Pelletier, Property Specialist - SBA Communications
134 Flanders Rd., Suite 125, Westborough, MA 01581
508.251.0720 x 3804 - kpelletier@sbsite.com

May 18, 2017

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

Notice of Exempt Modification
297 North Street, Plymouth, CT
41 41 35.95 N
-73 3 13.36 W
T-Mobile #: CT11366A_APU

Dear Ms. Bachman:

T-Mobile currently maintains (6) antennas at the 175-foot level of the existing 195-foot Monopole Tower at 297 North Street, Plymouth, CT. The tower is owned by SBA Towers, LLC. The property is owned by Francis/Barbara Bart and Raymond/Brenda Lagosz. **T-Mobile does not propose any changes to its antennas or tower top equipment, but intends to add (1) propane-based emergency backup generator and associated equipment within the leased area of the compound.** T-Mobile's full scope of work is as follows:

Remove: None

Remove and Replace: None

Install:

- 7.5 KW DC Generator (on existing concrete pad within existing leased area of compound)
- DC and Alarm Interconnect kits
- 120 Gallon Stationary Vertical ASME Propane (LP) Storage Tank (on existing concrete pad within existing leased area of compound) / Associated Gas Line

Existing Equipment to Remain (including entitlements):

- *All tower-mounted equipment to remain (ground work application only):*
 - (6) EMS RR90-17-02DP panel antennas
 - (12) FE15501P77/75 MHAs
 - (12) 1 5/8" lines
 - (3) T-Arms

This facility was approved by the Town of Plymouth's Planning and Zoning Commission in September of 1999 under Case #4275-008. Approval was given for a 195' monopole constructed to accommodate up to five cellular antenna arrays, and associated equipment to be placed at the base of the pole within the fenced area. Space was to be made available to the Town of Plymouth, at no cost, for emergency services. The proposed modification is in full compliance.

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 Plymouth's Mayor, David Merchant, and Director of Planning & Economic Development, Margus Laan, as well as the property owners, Francis & Barbara Bart and Raymond & Brenda Lagosz. (Separate notice need not be sent to the 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 with certain modifications.

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,



Kri Pelletier
Property Specialist
SBA COMMUNICATIONS CORPORATION
134 Flanders Rd., Suite 125
Westborough, MA 01581
508.251.0720 x3804 + T
508.366.2610 + F
203.446.7700 + C
kpelletier@sbsite.com

Attachments

cc: David V. Merchant – Mayor, Town of Plymouth
Town Hall, 80 Main Street, Terryville, CT 06786
Margus T. Laan -- Director of Planning & Economic Development, Town of Plymouth
Town Hall, 80 Main Street, Terryville, CT 06786
Francis & Barbara Bart and Raymond & Brenda Lagosz -- Property Owners
c/o 19 Crescent Street, Terryville, CT 06786



POWER DENSITY

N/A – Generator Installation Only

T-Mobile L700 Network Hardening

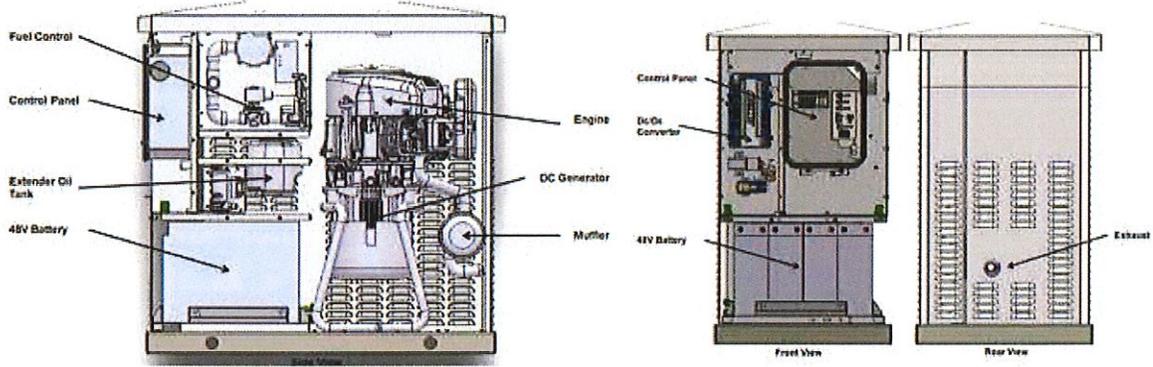
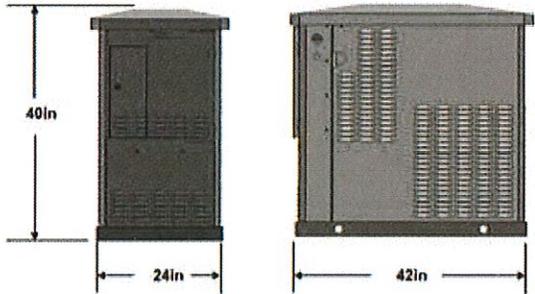
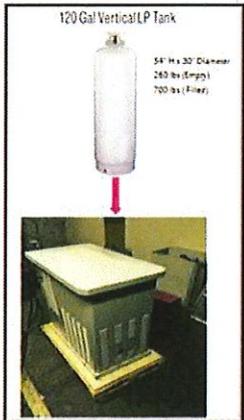
Auxiliary Power Unit (APU) Solution¹

Delta PowerGen 7500 DC Genset

- Propane fueled
- DC supply
- 40”H x 42”W x 27”D
- 76 dB(A) at 23 feet
- Zero fuel consumption in standby
- Only exercises once every six months for 20 min
- **To be placed within leased area of compound**

Propane Tank

- 120 Gallon
- 30” upright unit
- Backup time of 80 hours
- **To be placed within leased area of compound**



¹ Eligible for relief under Act 6409 of the Middle Class Tax Relief Act of 2012 and reserves rights thereunder

Plymouth, CT : Residential Property Record Card

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Account <input type="text"/>	Name <input type="text"/>	Street Name <input type="text" value="NORTH ST"/> ▼	<input type="button" value="Search"/>	<input type="button" value="Reset"/>
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Map-Block-Lot	Card	Account	Location	Zoning	State Class	Acres
017-014-014D	1	00074600	297 NORTH ST	RA1	101 - Single Family	2.620
Living Units						
1						

Owner Information

Lagosz Raymond & Brenda
297 North St
Plymouth CT 06782

Property Picture



Deed Information

Book/Page: 163/1122
Deed Date: n/a

Dwelling Information

Style: Cape
Story Height: 1.5
Attic: None
Basement: Full
Year Built: 1980
Ground Flr Area: 1524
Tot Living Area: 2208
Rooms: 7
Bedrooms: 4
Full Baths: 2
Half Baths: 1

Valuation

Land: \$97,800
Building: \$145,040
Total: \$242,840
Net Assessment: \$169,990

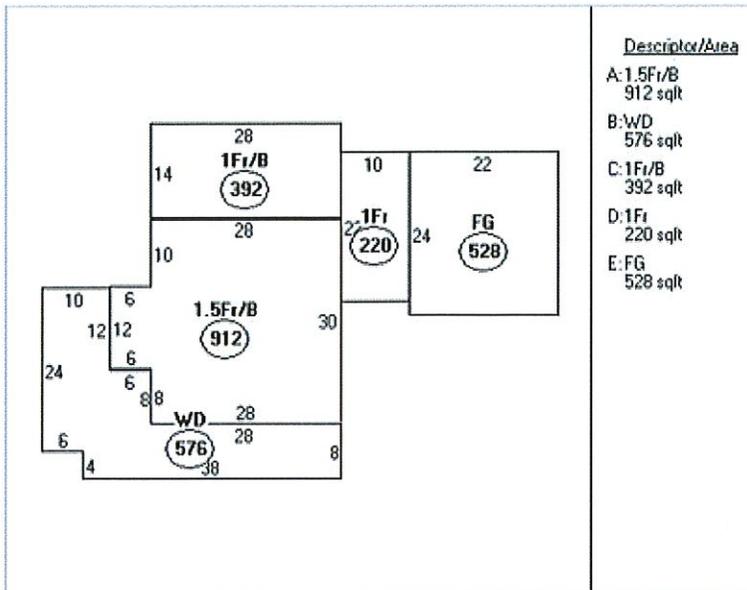
Sales History

Book/Page	Date	Price	Type	Validity
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Out Building Information

Type	Qty	Year	Size1	Size2	Grade	Cond
Shed-Frame	1	2005	12	16	C	A

Building Sketch



Descriptor/Area
 A: 1.5Fr/B
 912 sqft
 B: WD
 576 sqft
 C: 1Fr/B
 392 sqft
 D: 1Fr
 220 sqft
 E: FG
 528 sqft

Notice

The information delivered through this on-line database is provided in the spirit of open access to government information and is intended as an enhanced service and convenience for citizens of Plymouth, CT.

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Currently All Values Have Not Been Finalized and Are Subject To Change.

Comments regarding this service should be directed to: rwalcott@plymouthct.us



SITE NAME: WASHINGTON

297 NORTH STREET
PLYMOUTH, CT 06782

SITE NUMBER: CT11366A

PROJECT: T-MOBILE APU UPGRADE

T-MOBILE TECHNICIAN SITE SAFETY NOTES	
LOCATION	SPECIAL RESTRICTIONS
AUXILIARY POWER UNIT (APU):	UNRESTRICTED (CAUTION: HOT EXHAUST WHEN OPERATING)
PROPANE STORAGE TANK:	UNRESTRICTED (NO SMOKING WITHIN 10 FEET)
RADIO CABINETS:	UNRESTRICTED
PPC DISCONNECT:	UNRESTRICTED
MAIN CIRCUIT D/C:	UNRESTRICTED
NIU/T DEMARC:	UNRESTRICTED
OTHER/SPECIAL:	NONE

PROJECT SUMMARY
MODIFICATION OF AN UNMANNED TELECOMMUNICATIONS FACILITY FOR T-MOBILE. THIS PROJECT WILL CONSIST OF INSTALLING NEW 7.5KW DC BACKUP GENERATOR ON AN EXISTING CONCRETE PAD, A NEW STATIONARY 120 GALLON VERTICAL PROPANE TANK ON A PRECAST CONCRETE PAD, INCLUDING ALL LOW VOLTAGE DIRECT CURRENT (~48V DC) EQUIPMENT INTERCONNECTS AND LOW PRESSURE GAS PIPING.
GENERAL NOTES
<ol style="list-style-type: none"> THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE NORTHEAST, LLC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE T-MOBILE NORTHEAST, LLC REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



PROJECT INFORMATION	
ZONING JURISDICTION:	SPECIAL ZONING NOTE (ELIGIBLE FACILITY REQUEST): 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).
SITE ADDRESS:	297 NORTH STREET PLYMOUTH, CT 06782
LATITUDE:	41.69332 (FROM SBA RECORD)
LONGITUDE:	-73.05371 (FROM SBA RECORD)
JURISDICTION:	TOWN OF PLYMOUTH
BUILDING CODE:	2016 CONNECTICUT STATE BUILDING CODE WITH AMENDMENTS
ELECTRICAL CODE:	2014 NATIONAL ELECTRICAL CODE AND AMENDMENTS
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
TOWER OWNER:	SBA TOWERS, LLC
SBA SITE ID:	CT01497-S
SBA SITE NAME:	PLYMOUTH 2 CT
SBA REGIONAL SITE MANAGER:	STEPHEN ROTH (860) 539-4920

APPROVALS	
PROJECT MANAGER	DATE
CONSTRUCTION MANAGER	DATE
ZONING/SITE ACQ.	DATE
OPERATIONS MANAGER	DATE
LANDLORD/TOWER OWNER	DATE

DIG SAFE SYSTEM
(MA, ME, NH, RI, VT):
1-888-344-7233

CALL BEFORE YOU DIG
(CT): 1-800-922-4455

UNDERGROUND SERVICE ALERT

DRAWING INDEX		
SHEET NO.	DESCRIPTION	REV.
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GN-1	GENERAL NOTES	1
C-1	COMPOUND PLAN & LEASE AREA PHOTO DETAILS	1
C-2	DETAILS	1
S-1	CONSTRUCTION DETAILS	1
G-1	GROUNDING DETAILS	1

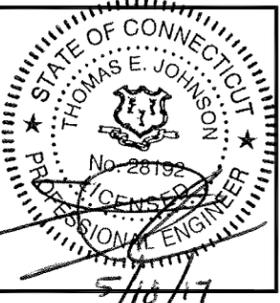
T-Mobile
T-MOBILE NORTHEAST LLC
4 SYLVAN WAY
PARSIPPANY, NJ 07054

SBA

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

ProTerra
DESIGN GROUP, LLC

4 Bay Road, Building A
Suite 200
Hadley, MA 01035 Ph: (413) 320-4918



CHECKED BY: JMM/TEJ/JEB

APPROVED BY: JMM/TEJ

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	5/18/17	PERMITTING/CONSTRUCTION	SPH
0	05/11/17	PERMITTING/CONSTRUCTION	SPH

SITE NUMBER:
CT11366A
SITE NAME:
WASHINGTON

SITE ADDRESS:
297 NORTH STREET
PLYMOUTH, CT 06782

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

GROUNDING NOTES

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

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR – TBD
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER – T-MOBILE
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
14. ANY NEW CONCRETE NEEDED FOR CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (FY = 36 KSI) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (FY = 35 KSI). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF T-MOBILE SITES" AND "DELTA POWERGEN 7500 SITE INSTALLATION".
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
20. APPLICABLE BUILDING CODES:
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, FOURTEENTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL:

NOTES 1-5 BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMP'S

1. SUFFICIENT BMP'S MUST BE IMPLEMENTED TO PREVENT SILT, MUD, OR OTHER CONSTRUCTION DEBRIS FROM BEING TRACKED INTO THE ADJACENT STREET(S) OR STORM WATER CONVEYANCE SYSTEM DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY SUCH DEBRIS THAT MAY BE IN THE STREET AT THE END OF EACH WORK DAY OR AFTER A STORM EVENT THAT CAUSES A BREACH IN THE INSTALLED CONSTRUCTION BMP'S.
2. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED IN PLACE ON THE SITE.
3. ALL EROSION/SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN WORKING ORDER AT ALL TIMES.
4. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.
5. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI 318) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND (ACI 301) STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACIW301, ACIW318, ASTM A184 AND ASTM A185.
2. MINIMUM ALLOWABLE CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS METHODS STANDARDS ASTM C172, ASTM C31 AND ASTM C39 UNLESS NOTED OTHERWISE.
3. 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. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNLESS NOTED OTHERWISE.
4. DETAILING SHALL BE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES (ACI STD-318/SP-66(04): ACI DETAILING MANUAL-2004.
5. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" IN ACCORDANCE WITH ACI 301 SECTION 4.2.2 UNLESS NOTED OTHERWISE.
6. REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. LOCATION OF REINFORCEMENT SHALL BE INDICATED ON THE DRAWINGS. CONCRETE COVER SHALL BE 3" MINIMUM.
7. TOP OF FOUNDATION TO HAVE A "BRUSH FINISH".
8. EXPOSED FINISH SURFACE IS NOT TO HOLD WATER.
9. ALL SURFACES ARE TO BE CLEANED OF ANY RESIDUAL CONCRETE FROM SPLASHING OR SPILLS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL, EXPOSE UNDISTURBED NATURAL SUBGRADE, AND PLACE CRUSHED STONE AS REQUIRED.
2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL OR ENGINEER IS ACCEPTABLE.
3. AS AN ALTERNATIVE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 95% STANDARD PROCTOR MAXIMUM DENSITY PER ASTM D 698.
4. COMPACTED SUB BASE 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.
5. AS AN ALTERNATIVE TO ITEMS 2 AND 3, PROOF ROLL THE SUB GRADE SOILS WITH 5 PASSES OF A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). ANY SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

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

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BTCW	BARE TINNED SOLID COPPER WIRE	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BGR	BURIED GROUND RING	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BTS	BASE TRANSCEIVER STATION	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
EXISTING	EXISTING OR (E)	PROPOSED	NEW OR (P)	TYP	TYPICAL
EGB	EQUIPMENT GROUND BAR	N.T.S.	NOT TO SCALE	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	RAD	RADIATION CENTERLINE (ANTENNA)		
		REF	REFERENCE		

T-Mobile

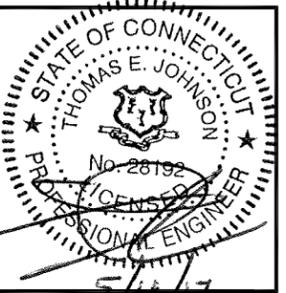
T-MOBILE NORTHEAST LLC
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PLYMOUTH, CT 06782

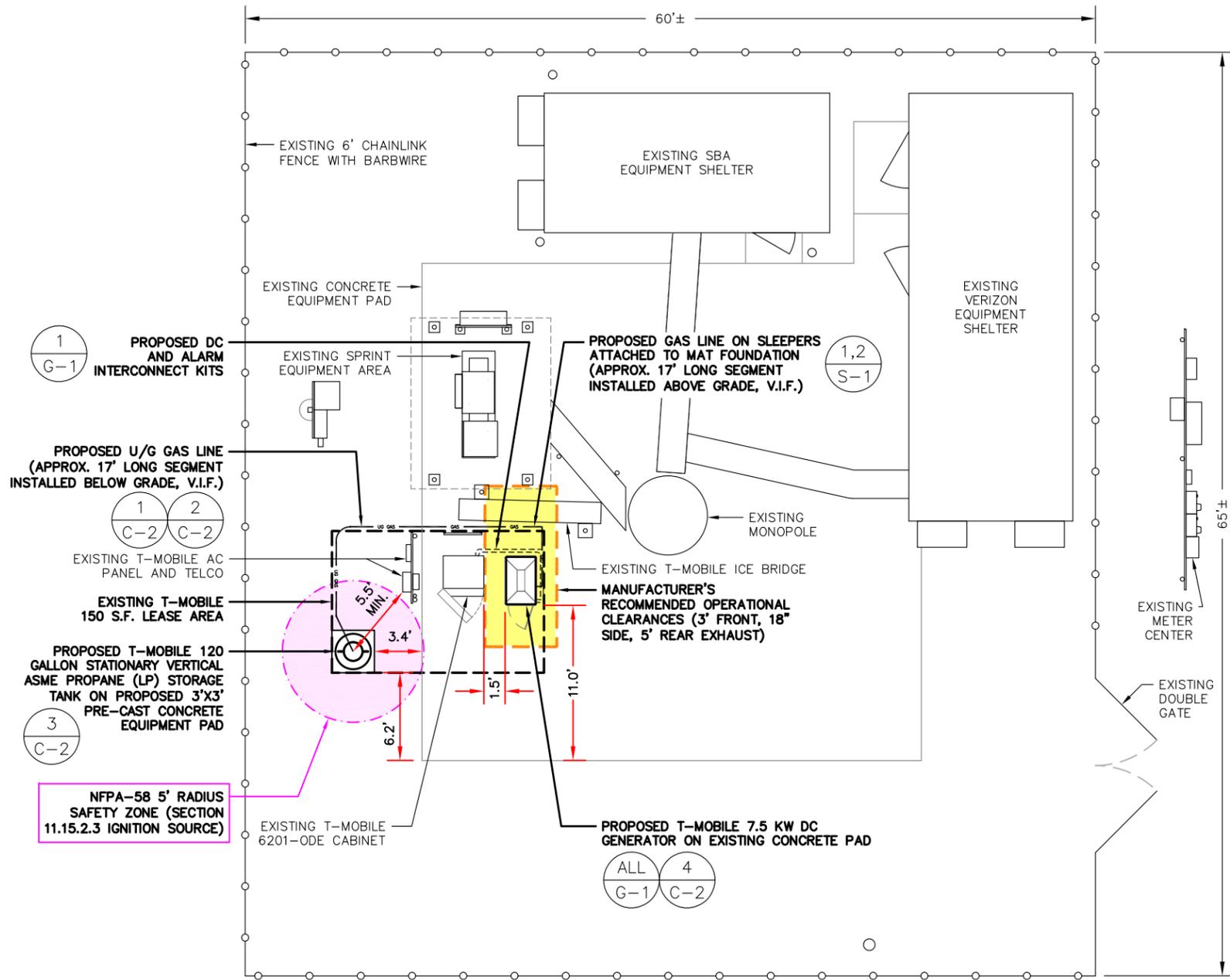
SHEET TITLE

GENERAL NOTES

SHEET NUMBER

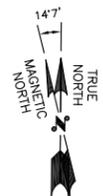
GN-1

COMPOUND PLAN AND PROPOSED EQUIPMENT LAYOUT BASED ON DESIGN VISIT BY PROTERRA DESIGN GROUP AND MAY BE SUBJECT TO CHANGE BASED ON UPDATES TO APU EQUIPMENT SPECIFICATIONS AND ON CONSTRUCTION DRAWINGS PREPARED BY A REGISTERED PROFESSIONAL ENGINEER



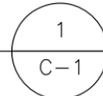
SAFETY ZONE REDUCTION NOTE:
REDUCTION TO A 5' RADIUS SAFETY ZONE FROM IGNITION SOURCE REQUIRES CONFORMANCE WITH NFPA-58 2011, SECTION 11.15.2.3 WHICH ALLOWS REDUCTION ONLY FOR CONTAINERS FOR STATIONARY ENGINES INSTALLED WITH A FILL VALVE WITH AN INTEGRAL MANUAL SHUTOFF VALVE.

NOTE:
REGULATOR AND FILL VALVE MUST BE INSTALLED NO CLOSER THAN 5' TO AN IGNITION SOURCE.



EQUIPMENT COMPOUND PLAN

SCALE: 1"=10' (11"x17")
1"=5' (22"x34")

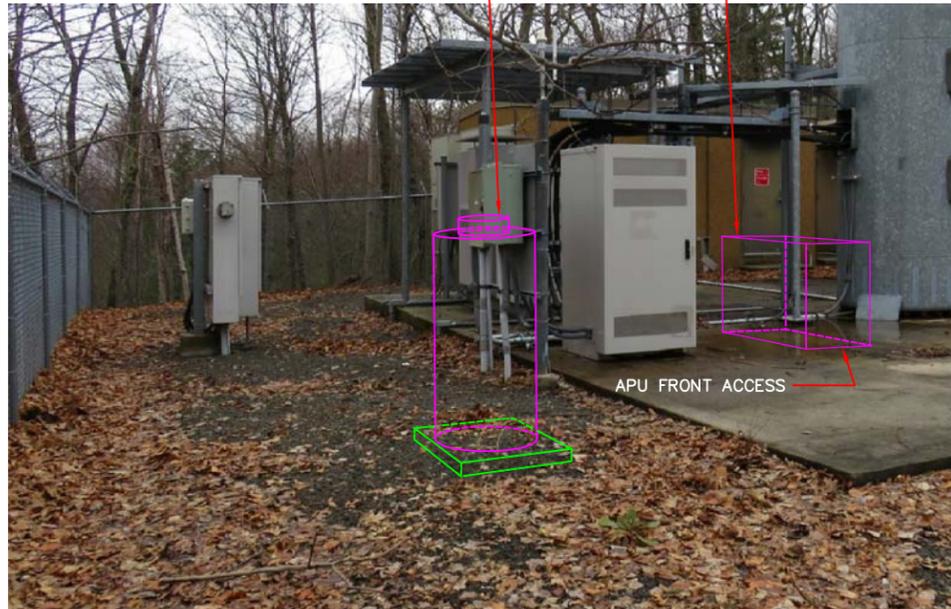


3
C-2

PROPOSED T-MOBILE 120 GALLON STATIONARY VERTICAL ASME PROPANE (LP) STORAGE TANK ON PROPOSED 3'X3' PRE-CAST CONCRETE EQUIPMENT PAD

4
C-2

PROPOSED T-MOBILE 7.5 KW DC GENERATOR ON EXISTING CONCRETE PAD



T-MOBILE EQUIPMENT GROUND LEASE AREAS PHOTO DETAIL
SCALE: N.T.S.

IMAGE SOURCE: PROTERRA 04/05/17

2
C-1



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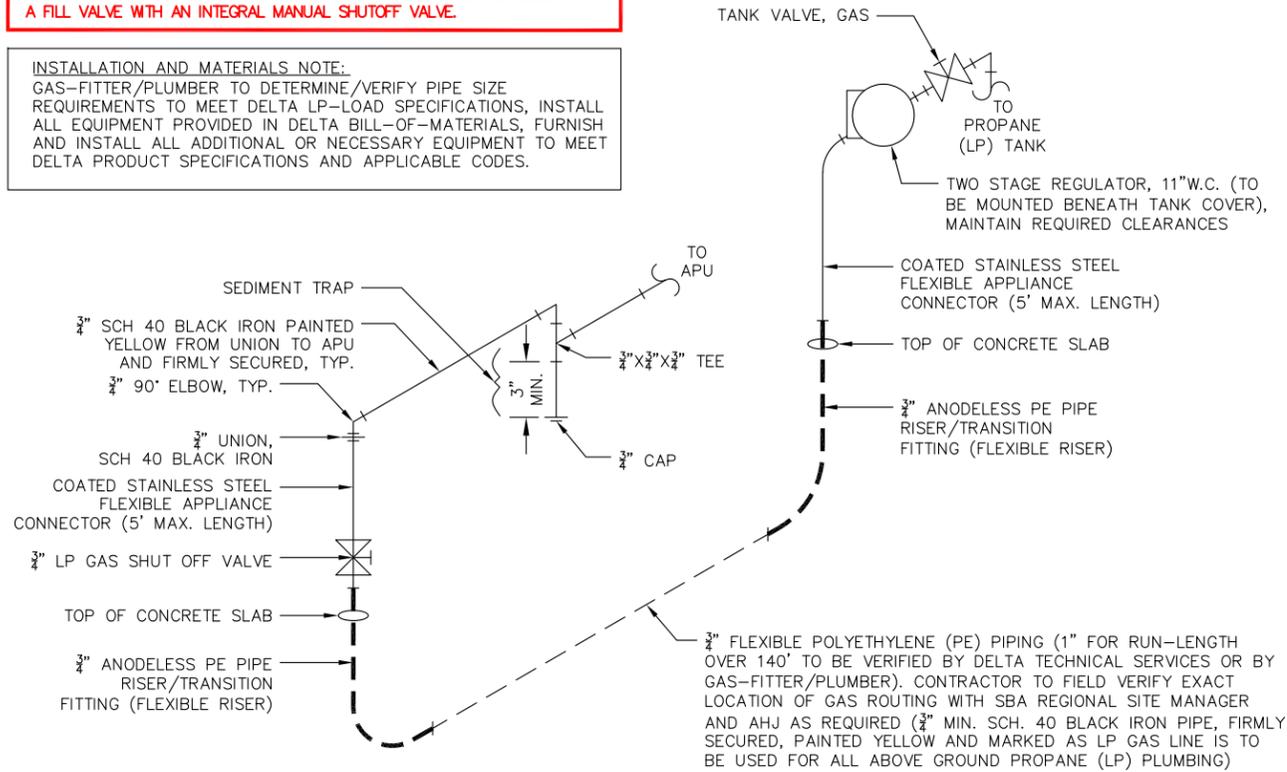
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297 NORTH STREET
PLYMOUTH, CT 06782

SHEET TITLE
APU LEASE EXHIBIT
SBA SITE ID:
CT01497-S
SBA SITE NAME:
PLYMOUTH 2 CT

SHEET NUMBER
C-1

SAFETY ZONE REDUCTION NOTE:
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INSTALLATION AND MATERIALS NOTE:
 GAS-FITTER/PLUMBER TO DETERMINE/VERIFY PIPE SIZE REQUIREMENTS TO MEET DELTA LP-LOAD SPECIFICATIONS, INSTALL ALL EQUIPMENT PROVIDED IN DELTA BILL-OF-MATERIALS, FURNISH AND INSTALL ALL ADDITIONAL OR NECESSARY EQUIPMENT TO MEET DELTA PRODUCT SPECIFICATIONS AND APPLICABLE CODES.



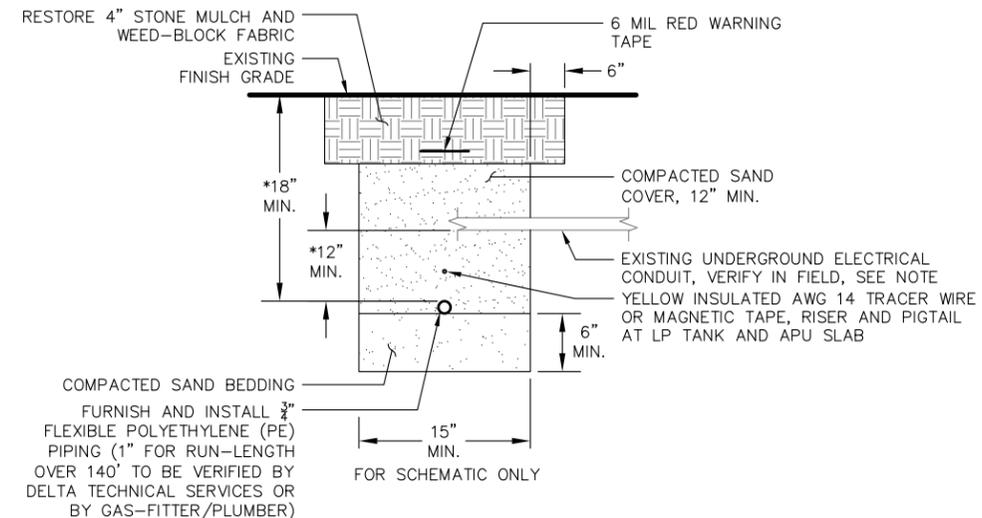
ISOMETRIC PIPING DIAGRAM

SCALE: N.T.S.

1
C-2

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. ALL PROPOSED UNDERGROUND UTILITY TRENCHES SHALL BE HAND-EXCAVATE AS REQUIRED. GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED SPECIAL TEMPORARY PROTECTION OF, PHYSICAL DAMAGE TO, OR REPAIR OF EXISTING UNDERGROUND CONDUIT INCLUDING RESTORATION OF SERVICE.



UNDERGROUND PLUMBING NOTES:

1. A SCH. 80 GALVANIZED PIPE SLEEVE IS TO BE USED TO PROTECT FLEXIBLE UNDERGROUND PIPE UNDER ALL AREAS SUBJECT TO VEHICLE TRAFFIC OR AS DIRECTED BY AHJ.
2. PROPANE (LP) PLUMBING IS NOT TO BE RUN WITHIN THE SAME TRENCH AS ELECTRICAL, ALARM OR CONTROL CONDUIT.
3. *A MINIMUM SEPARATION OF 12" VERTICALLY IS TO BE MAINTAINED WHENEVER CROSSING, TRANSITIONING NEAR, OR TRAVELING ALONG EXISTING ELECTRICAL CONDUIT. ADJUST DEPTH OF PROPANE (LP) PLUMBING SO AS TO MAINTAIN A MINIMUM OF 18" BELOW GRADE.
4. A MINIMUM SEPARATION OF 12" HORIZONTALLY IS TO BE MAINTAINED WHENEVER RUNNING PARALLEL TO OTHER BURIED UTILITIES AND CONDUITS.
5. ALL NOTED BURIAL DEPTHS ARE THE MINIMUM REQUIRED. LOCAL JURISDICTIONS MAY REQUIRE DEEPER BURIAL DEPTHS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY REQUIREMENTS WITH LOCAL AHJ.

PROPANE (LP) GAS PIPE TRENCH DETAIL

SCALE: N.T.S.

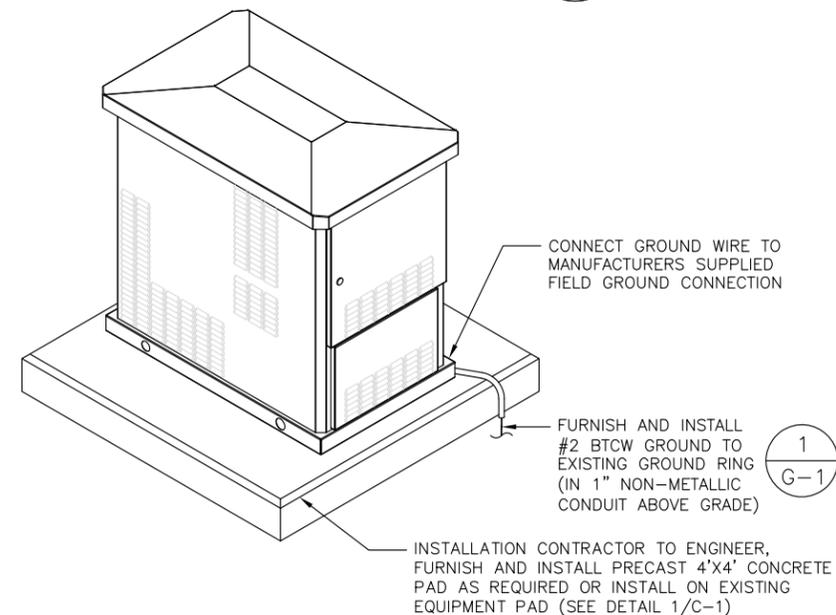
2
C-2

GENERATOR SETBACKS REQUIRED:

1. 10' MIN. - DISTANCE FROM EXHAUST TO ANY OPERABLE OPENING IN A BUILDING (IMC-09).
2. 5' MINIMUM - DISTANCE FROM GENERATOR TO ANY STRUCTURE HAVING COMBUSTIBLE WALLS (LESS THAN 1HR RATED) OR ANY OPENINGS IN WALLS (NFPA-37).

APU, DC GENERATOR

TYPE	7.5 KW, 48VDC
MANUFACTURER	DELTA ELECTRONICS, INC.
MODEL	ESOG150-PCA01
FUEL	PROPANE (LP) @ 11" W.C.
HEIGHT	40.1"
WIDTH	27"
DEPTH	42"
FRONT CLEARANCE	36"
SIDE CLEARANCE	18"
REAR CLEARANCE (EXHAUST)	60"



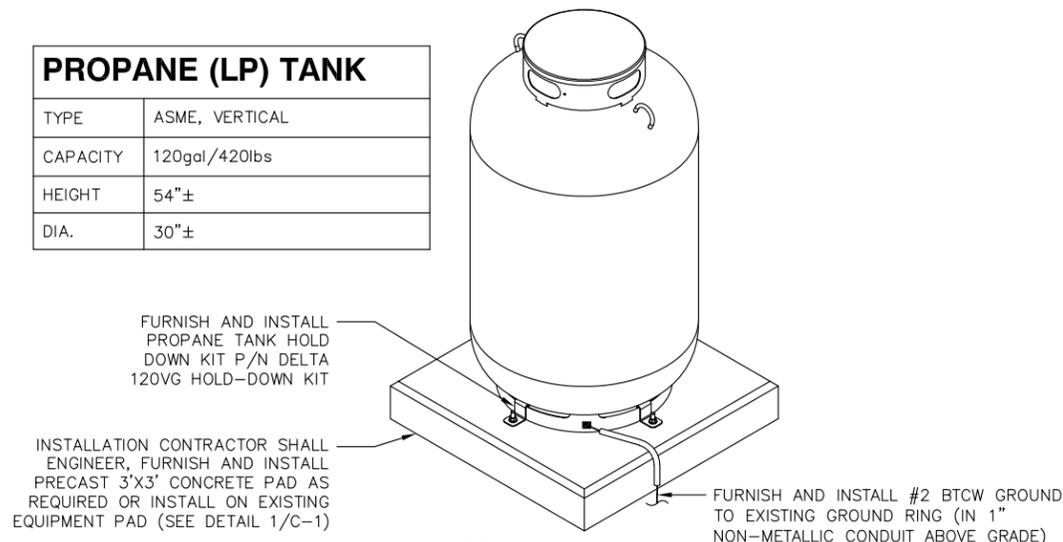
AUXILIARY POWER UNIT (APU)

SCALE: N.T.S.

4
C-2

PROPANE (LP) TANK

TYPE	ASME, VERTICAL
CAPACITY	120gal/420lbs
HEIGHT	54"±
DIA.	30"±



PROPANE (LP) TANK

SCALE: N.T.S.

3
C-2

1,2
G-1

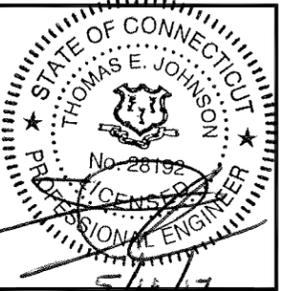
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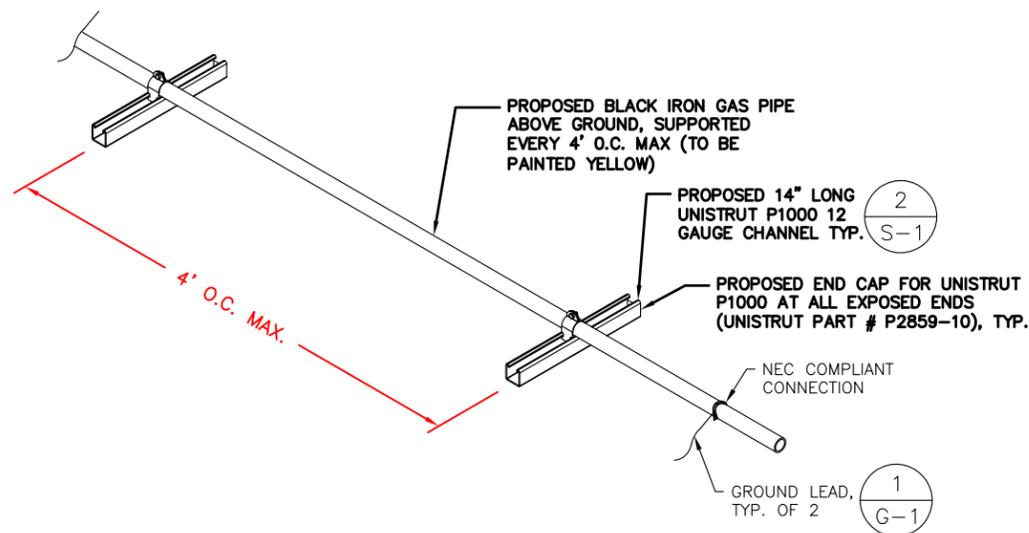
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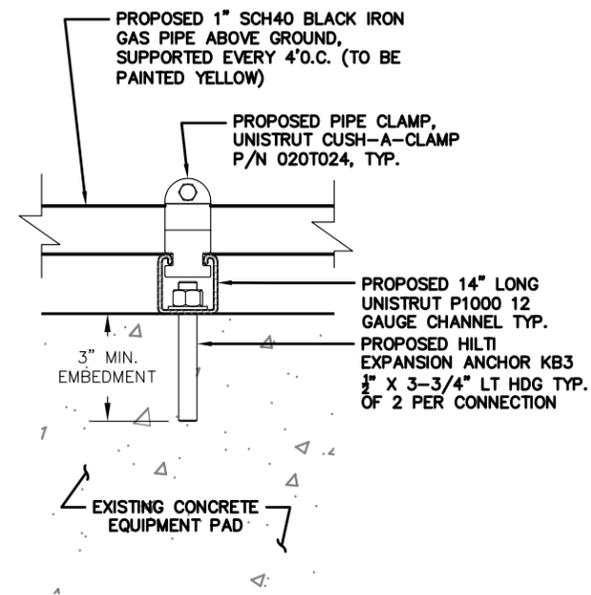
SHEET NUMBER
C-2



**PROPOSED PROPANE (LP) PIPE
SUPPORT ISOMETRIC VIEW**

SCALE: N.T.S.

1
S-1



**PROPOSED PROPANE (LP) PIPE
SUPPORT ANCHOR DETAIL**

SCALE: N.T.S.

2
S-1

T-Mobile

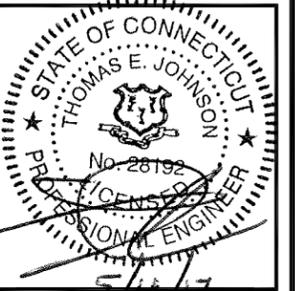
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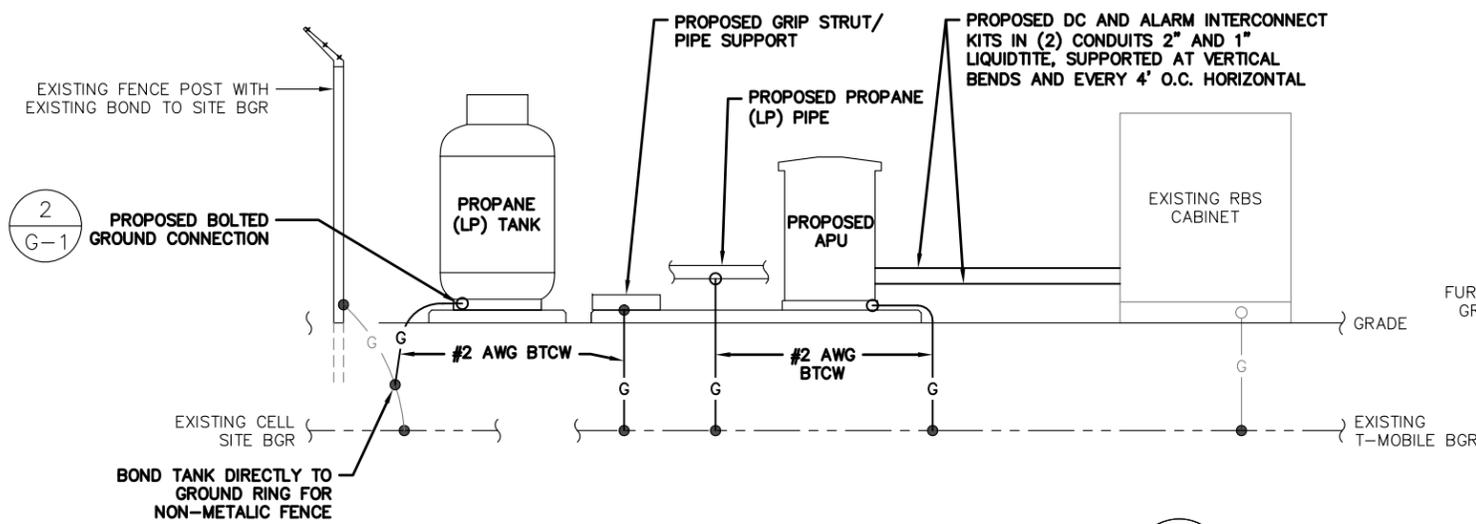
GROUNDING LEGEND	
○	MECHANICAL LUG
●	CADWELD
— G —	GROUND COPPER WIRE (SIZED AS NOTED)
---	BGR (BURIED GROUND RING)

SPECIAL CONSTRUCTION WORK NOTE (HAND-DUG UTILITY TRENCH EXCAVATION REQUIRED):

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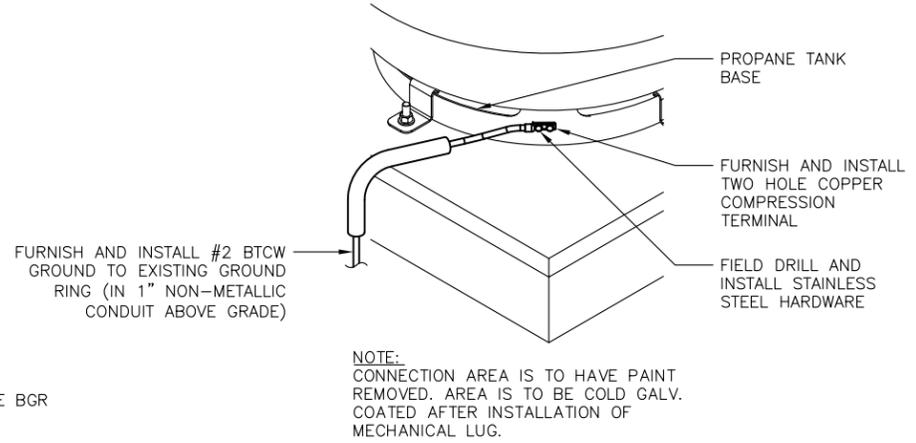
NOTE:
NO NEW AC ELECTRICAL WORK REQUIRED FOR APU INSTALLATION. ALL NEW ELECTRICAL WORK IS 48V DC

NOTE:
UNLESS OTHERWISE NOTED, ALL GROUNDING CONDUCTORS ARE #2 AWG BTCW



TYPICAL GROUNDING RISER DIAGRAM 1
SCALE: N.T.S. G-1

NOTE:
EQUIPMENT BONDING JUMPERS ABOVE GRADE ON CONCRETE SLAB TO BE RUN IN 1" NON-METALLIC CONDUIT.



PROPANE (LP) TANK GROUNDING DETAIL 2
SCALE: N.T.S. G-1

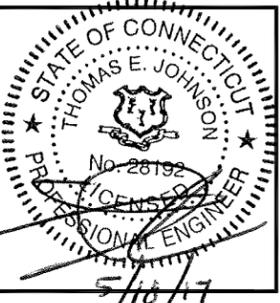
ELECTRICAL & GROUNDING NOTES:

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) 2014 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 SPECIFICATIONS 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.
- RIGID STEEL CONDUITS SHALL BE GROUNDED AT BOTH ENDS.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THHN INSULATION AS REQUIRED BY NEC.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- GROUNDING SHALL COMPLY WITH NEC ART. 250.
- USE #2 OR #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.
- CONNECTIONS TO MGB SHALL BE ARRANGED IN THREE MAIN GROUPS: SURGE PRODUCERS (COAXIAL CABLE GROUND KITS, TELCO AND POWER GROUND); (GROUNDING ELECTRODE RING OR BUILDING STEEL); NON-SURGING OBJECTS (EGB GROUND IN BTS UNIT).
- 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.

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