Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

December 06, 2018

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

RE: **Notice of Exempt Modification for Verizon Macro: 876342**
Verizon Site ID: Milford 2 CT
111 School House rd. Milford, CT 06460
Latitude: 41° 12' 45.4"/ Longitude: 73° 05' 05.5"

Dear Ms. Bachman:

Verizon currently maintains twelve (12) antennas at the 105-foot level of the existing 140-foot monopole tower at 111 School House rd Milford, CT 06460. The tower is owned by Crown Castle. The property is owned by Milford Enterprises LLC. Verizon now intends to install three (3) RRHs, and three (3) diplexers.

The Town of Milford Planning and Zoning board approved this facility on May 6th 1997. This approval was given without conditions.

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.S.C.A. § 16-50j-73, a copy of this letter is being sent to mayor Benjamin Blake, Town of Milford, Stephen H. Harris, Zoning Officer, Town of Milford, as well as the property owner, and Crown Castle is the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.

2. The proposed modifications will not require the extension of the site boundary.

3. The proposed modification 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 Communication Commission safety standard.

5. The proposed modifications 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, Verizon respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Jeffrey Barbadora.

Sincerely,

Jeffrey Barbadora
Real Estate Specialist
12 Gill Street, Suite 5800, Woburn, MA 01801
781-729-0053
Jeff.Barbadora@crowncastle.com

Attachments:

Tab 1: Exhibit-1: Compound plan and elevation depicting the planned changes
Tab 2: Exhibit-2: Structural Modification Report
Tab 3: Exhibit-3: General Power Density Table Report (RF Emissions Analysis Report)

cc: The Honorable Benjamin Blake
110 River St
Milford, CT 06460

Stephen H. Harris: Zoning Officer
110 River St
Milford, CT 06460

Milford Enterprises
C/O Jayesh Patel
7871 Belle Point Dr.
Greenbelt, MD 20770

111 SCHOOLHOUSE RD #CELL

Location	111 SCHOOLHOUSE RD #CELL	**Mblu**	33/ 335/ 5/A /
		Acct#	023043
Owner	MILFORD ENTERPRISES LLC	**Assessment**	$245,000
Appraisal	$350,000	**PID**	100242
Building Count	1		

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2016	$350,000	$0	$350,000
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2016	$245,000	$0	$245,000

Owner of Record

Owner	MILFORD ENTERPRISES LLC
Other	C/O JAYESH PATEL
Address	7871 BELLE POINT DR GREENBELT, MD 20770

Sale Price	$3,675,000
Certificate	
Book & Page	03622/0230
Sale Date	03/27/2015
Instrument	18

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
MILFORD ENTERPRISES LLC	$3,675,000		03622/0230	18	03/27/2015
CSMC 2007 C5 FFI HOTEL PORTFOLIO LLC	$6,930,207		03602/0294	22	10/06/2014
MILFORD FFI LLC	$4,800,000		03168/0407	00	05/10/2007
OLY REALTY ONE LLC	$3,800,000		02396/0375		02/28/2000
TELAHC PROPERTIES L P	$0		02040/0184		03/11/1994

Building Information

Building 1 : Section 1

Year Built:
Living Area: 0
Replacement Cost: $0

Building Photo

Building Percent Good:
Replacement Cost Less Depreciation: $0

Building Attributes	
Field	**Description**
Style	Outbuildings
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Description:	
Kitchen Descrip:	
Int Condition:	
Solar Panels	
House Generator	

(http://images.vgsi.com/photos/MilfordCTPhotos//default.jpg)

Building Layout

Building
(http://images.vgsi.com/photos/MilfordCTPhotos//Sketches/1002

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	434V
Description	CELL TOWER MDL-00
Zone	
Neighborhood	C

Land Line Valuation

Size (Acres)	0
Frontage	
Depth	
Assessed Value	$0

Alt Land Appr No
Category

Appraised Value $0

Outbuildings

Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
CEL1	CEL TWR SITE			1 UNITS	$350,000	1

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2017	$350,000	$0	$350,000
2016	$350,000	$0	$350,000
2013	$450,000	$0	$450,000

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2017	$245,000	$0	$245,000
2016	$245,000	$0	$245,000
2013	$315,000	$0	$315,000


111 Schoolhouse Road
West Ave
West Ave
West Ave
Connecticut Turnpike
Sub Way
Old Schoolhouse Rd
Boston Post Rd
Dan Perkins Subaru
Red Roof Inn
Rowe Ave
Schoolhouse Rd
Schoolhouse Rd
Lobster Hut
AAA Milford
Buick GMC of Milford
Stop & Shop
Courtney Honda
Silver Sands Pkwy
Rowe Ave
95
95
U.S. Hwy 1
Avery Ave
Meadows End Rd
Chevrolet of Milford
Satellite
Google

verizon

CROWN CASTLE

VERIZON SITE NAME:	MILFORD 2 CT
CROWN CASTLE SITE NAME:	BIC DRIVE (SSUSA)
CROWN CASTLE BU NUMBER:	876342
SITE ADDRESS:	111 SCHOOL HOUSE ROAD, A/K/A BIC DRIVE MILFORD, CT 06460
SITE TYPE:	MONOPOLE TOWER

SITE INFORMATION

APPLICANT:
VERIZON
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

TOWER OWNER:
CROWN CASTLE

CROWN CASTLE PM:
JEFFREY BARBADORA
(781) 970-0053

LATITUDE (NAD83):
41° 12' 46.4" N
41.212883

LONGITUDE (NAD83):
73° 05' 05.5" W
-73.084858

COUNTY:
NEW HAVEN

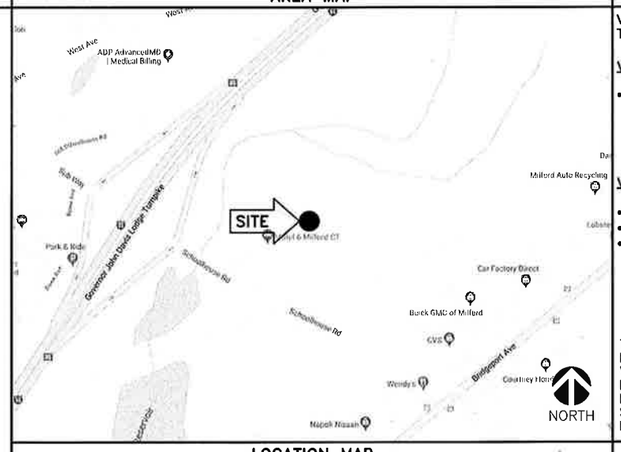
ZONING JURISDICTION:
CITY OF MILFORD

POWER COMPANY:
NATIONAL GRID
(800) 322-3223

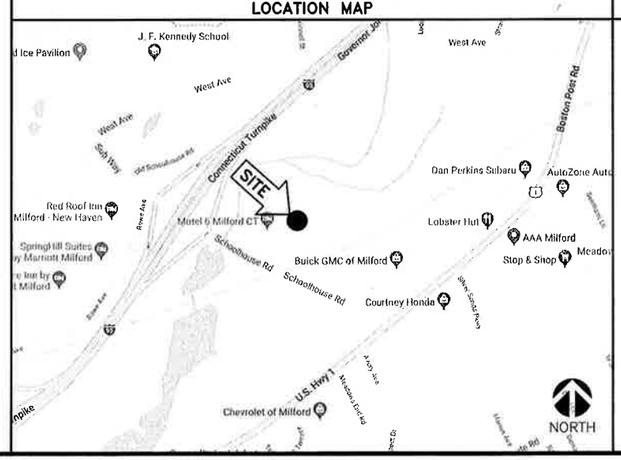
TELCO PROVIDER:
FIBER APP

VERIZON WIRELESS CM:
TBD

AREA MAP



LOCATION MAP



PROJECT DESCRIPTION

VERIZON PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATION FACILITY:

VERIZON EQUIPMENT TO BE REMOVED:

- NONE

VERIZON EQUIPMENT TO BE INSTALLED:

- INSTALL (3) NOKIA RRH'S P/N: 4T4R B5
- INSTALL (3) RFS DIPLEXERS P/N: CBC1923TDS-43
- INSTALL HANDRAIL KIT (SITE PRO1 PART# HRK-14 OR APPROVED EQUAL)

THESE PLANS HAVE BEEN DEVELOPED FOR THE MODIFICATION OF AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY OWNED OR LEASED BY VERIZON IN ACCORDANCE WITH THE SCOPE OF WORK PROVIDED BY VERIZON. INFINIGY HAS INCORPORATED THIS SCOPE OF WORK IN THE PLANS. THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS ACCOMPANIED BY A PASSING STRUCTURAL STABILITY ANALYSIS PREPARED BY A LICENSED STRUCTURAL ENGINEER. STRUCTURAL ANALYSIS MUST INCLUDE BOTH TOWER AND MOUNT.

APPLICABLE CODES

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALL IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. INTERNATIONAL BUILDING CODE (2015 IBC)
2. TIA-EIA-222-G OR LATEST EDITION
3. NFPA 780 – LIGHTNING PROTECTION CODE
4. 2017 NATIONAL ELECTRIC CODE OR LATEST EDITION
5. ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES, MOST RECENT EDITIONS
6. RI BUILDING CODE
7. LOCAL BUILDING CODE
8. CITY/COUNTY ORDINANCES

811 Know what's below. Call before you dig. www.call811.com

DRAWING INDEX

SHEET NO:	SHEET TITLE	REV
T-1	TITLE SHEET & PROJECT DATA	A
SP-1	VERIZON SPECIFICATIONS	A
A-1	OVERALL SITE PLAN	A
A-2	TOWER ELEVATION	A
A-3	ANTENNA LAYOUT & LOADING CHART	A
A-4	EQUIPMENT & MOUNTING DETAILS	A
A-5	EQUIPMENT DETAILS	A
G-1	GROUNDING PLAN & DETAILS	A

DRIVING DIRECTIONS

FROM: PROVIDENCE, RI

1. HEAD SOUTHWEST ON FULTON ST TOWARD EDDY ST
2. TURN LEFT ONTO EDDY ST
3. TURN RIGHT AT THE 1ST CROSS STREET ONTO WESTMINSTER ST
4. TURN RIGHT ONTO FOUNTAIN ST
5. TURN LEFT ONTO FRANCIS ST N
6. TURN LEFT ONTO MEMORIAL BLVD
7. USE THE RIGHT LANE TO KEEP AT THE FORK AND FOLLOW SIGNS FOR I-95 S/I-95 N
8. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR INTERSTATE 95 N/BOSTON AND MERGE ONTO I-95 N.
9. USE THE RIGHT 2 LANES TO TAKE EXIT 23 FOR RI-146 TOWARD US-44/WOONSOCKET/STATE OFFICES
10. CONTINUE ONTO RI-146 N
11. TAKE THE INTERSTATE 295 N EXIT TOWARD RI-99 N/BOSTON MA/WARWICK
12. USE THE RIGHT 2 LANES TO TURN SLIGHTLY RIGHT ONTO RI-99 N
13. TAKE THE EXIT TOWARD RI-126/NORTH SMITHFIELD/LINCOLN
14. TURN LEFT ONTO SAYLES HILL RD
15. TURN RIGHT ONTO OLD SMITHFIELD RD
16. OLD SMITHFIELD RD TURNS RIGHT AND BECOMES RI-146A N

PLANS PREPARED FOR:
verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

PLANS PREPARED BY:
INFINIGY
FROM ZERO TO INFINIGY
the solutions are endless
1490 W. 121st. Ave., Suite 101
Westminster, CO 80234
Office # (303) 219-1178
Fax # (303) 242-8636
JOB NUMBER: TBD

MLA PARTNER:
CROWN CASTLE

ENGINEERING LICENSE:
STATE OF CONNECTICUT
BRIAN S. STEVENS
LICENSED PROFESSIONAL ENGINEER
NOV 30 2018

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	11/19/18	RCD	A

VERIZON SITE NAME: MILFORD 2 CT

CROWN CASTLE SITE NAME: BIC DRIVE (SSUSA)

CROWN CASTLE BU #: 876342

SITE ADDRESS: 111 SCHOOL HOUSE ROAD, A/K/A BIC DRIVE MILFORD, CT 06460

SHEET DESCRIPTION: TITLE SHEET & PROJECT DATA

SHEET NUMBER: T-1

ELECTRICAL NOTES:

WORK INCLUDED
1. INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, PLANT SERVICES AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE THE ELECTRICAL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   A. PREPARE AND SUBMIT SHOP DRAWINGS, DIAGRAMS AND ILLUSTRATIONS.
   B. PROCURE ALL NECESSARY PERMITS AND APPROVALS AND PAY ALL REQUIRED FEES AND CHARGES IN CONNECTION WITH THE WORK OF THIS CONTRACT.
   C. SUBMIT AS-BUILT DRAWINGS, OPERATING AND MAINTENANCE INSTRUCTIONS AND MANUALS.
   D. EXECUTE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING OF EXISTING OR NEWLY INSTALLED CONSTRUCTION REQUIRED FOR THE WORK OF THIS CONTRACT. FOR SLAB PENETRATIONS THROUGH POST TENSION SLABS, X-RAY EXACT AREA OF PENETRATION PRIOR TO PERFORMING WORK. COORDINATE ALL X-RAY WORK WITH BUILDING ENGINEER.
   E. PROVIDE HANGERS, SUPPORTS, FOUNDATIONS, STRUCTURAL FRAMING SUPPORTS, AND BASES FOR CONDUIT AND EQUIPMENT PROVIDED OR INSTALLED UNDER THE WORK OF HIS CONTRACT. PROVIDE COUNTER FLASHING, SLEEVES AND SEALS FOR FLOOR AND WALL PENETRATIONS.
   F. MAINTAIN ALL EXISTING ELECTRICAL SERVICES IN THE BUILDING AREAS NOT AFFECTED BY THE ALTERATION DURING THE PROGRESS OF THE WORK INCLUDING PROVIDING ALL TEMPORARY JUMPERS, CONDUITS, CAPS, PROTECTIVE DEVICES, CONNECTIONS AND EQUIPMENT REQUIRED. PROVIDE TEMPORARY LIGHT AND POWER FOR CONSTRUCTION PURPOSES.
2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATIONS. IF AN ITEM OF WORK IS INDICATED IN THE DRAWINGS, IT IS CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION WHETHER OR NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS.

GENERAL REQUIREMENTS
1. PROVIDE ALL WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL AND STATE ELECTRICAL CODES.
2. THE ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF THE BUILDING.
3. LOAD CALCULATIONS ARE BASED ON EXISTING BUILDING INFORMATION/DRAWINGS PROVIDED TO ENGINEERING. CONTRACTOR IS TO VERIFY ALL EXISTING RATINGS AND LOADS PRIOR TO PURCHASING OF SPECIFIED EQUIPMENT FOR COMPLIANCE TO NEC. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES AND REQUEST FURTHER DIRECTION BY ENGINEER.
4. EXISTING BUILDING EQUIPMENT IS NOTED ON THE DRAWINGS. NEW OR RELOCATED EQUIPMENT IS SHOWN WITH SOLID LINES. FUTURE EQUIPMENT (NOT IN THIS CONTRACT) IS DEPICTED WITH SHADED LINES. REQUEST CLARIFICATION OF DRAWINGS OR OF SPECIFICATIONS PRIOR TO PRICING OR INSTALLATION.
5. GENERAL
   A. AFTER CAREFULLY STUDYING THE DRAWINGS AND SPECIFICATIONS, AND BEFORE SUBMITTING THE PROPOSAL, MAKE A MANDATORY SITE VISIT TO ASCERTAIN CONDITIONS OF THE SITE, AND THE NATURE AND EXACT QUANTITY OF WORK TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO NOTIFY THE OWNER, IN WRITING, OF ANY DISCREPANCIES THAT MAY HAVE BEEN NOTED BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS AND SPECIFICATIONS.
   B. VERIFY ALL MEASUREMENTS AT THE SITE AND BE RESPONSIBLE FOR CORRECTNESS OF SAME.
6. QUALITY, WORKMANSHIP, MATERIALS AND SAFETY
   A. PROVIDE NEW MATERIALS AND EQUIPMENT OF A DOMESTIC MANUFACTURER BY THOSE REGULARLY ENGAGED IN THE PRODUCTION AND MANUFACTURE OF SPECIFIED MATERIALS AND EQUIPMENT. WHERE UL, OR OTHER AGENCY, HAS ESTABLISHED STANDARDS FOR MATERIALS, PROVIDE MATERIALS WHICH ARE LISTED AND LABELED ACCORDINGLY. THE COMMERCIALLY STANDARD ITEMS OF EQUIPMENT AND THE SPECIFIC NAMES MENTIONED HEREIN ARE INTENDED FOR THE PROPER FUNCTIONING OF THE WORK.
   B. WORK SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE REQUIRED FOR THE WORK. INSTALL MATERIALS AND EQUIPMENT TO PRESENT A NEAT APPEARANCE WHEN COMPLETED AND IN ACCORDANCE WITH THE APPROVED RECOMMENDATIONS OF THE MANUFACTURER AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
   C. PROVIDE LABOR, MATERIALS, APPARATUS AND APPLIANCES ESSENTIAL TO THE FUNCTIONING OF THE SYSTEMS DESCRIBED OR INDICATED HEREIN, OR WHICH MAY BE REASONABLY IMPLIED AS ESSENTIAL WHENEVER MENTIONED IN THE CONTRACT DOCUMENT OR NOT.
   D. MAKE WRITTEN REQUESTS FOR SUPPLEMENTARY INSTRUCTIONS TO ARCHITECT/ENGINEER IN CASE OF DOUBT AS TO WORK INTENDED OR IN EVENT OF NEED FOR EXPLANATION THEREOF.
   E. PERFORMANCE AND MATERIAL REQUIREMENTS SCHEDULED OR SPECIFIED ARE MINIMUM STANDARD ACCEPTABLE. THE RIGHT TO JUDGE THE QUALITY OF EQUIPMENT THAT DEVIATES FROM THE CONTRACT DOCUMENT REMAINS SOLELY WITH ARCHITECT/ENGINEER. CONTRACT DOCUMENT OR NOT.

GUARANTEE
1. GUARANTEE MATERIALS, PARTS AND LABOR FOR WORK FOR ONE YEAR FROM THE DATE OF ISSUANCE OF OCCUPANCY PERMIT. DURING THAT PERIOD, MAKE GOOD FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIALS OR WORKMANSHIP WITH NO ADDITIONAL COMPENSATION AND AS DIRECTED BY ARCHITECT.

CLEANING
1. REMOVE ALL CONSTRUCTION DEBRIS RESULTING FROM THE WORK.
2. CLEAN EQUIPMENT AND SYSTEMS FOLLOWING THE COMPLETION OF THE PROJECT TO THE SATISFACTION OF THE ENGINEER.

COORDINATION AND SUPERVISION
1. CAREFULLY LAY OUT ALL WORK IN ADVANCE TO AVOID UNNECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES. WHERE SUCH WORK IS NECESSARY, HOWEVER, PATCH AND REPAIR THE WORK IN AN APPROVED MANNER BY SKILLED MECHANICS AT NO ADDITIONAL COST TO THE OWNER. RENDER FULL COOPERATION TO OTHER TRADES WHERE WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO WORK OF OTHER TRADES. ASSIST IN WORKING OUT SPACE CONDITIONS. IF WORK IS INSTALLED BEFORE COORDINATION WITH OTHER TRADES, OR CAUSES INTERFERENCE, MAKE CHANGES NECESSARY TO CORRECT CONDITIONS WITHOUT EXTRA CHARGE.

SUBMITTALS
1. AS-BUILT DRAWINGS:
   A. UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER "AS-BUILT" DRAWINGS.
2. SERVICE MANUALS:
   A. UPON COMPLETION OF THE WORK, FULLY INSTRUCT VERIZON AS TO THE OPERATION AND MAINTENANCE OF ALL MATERIAL, EQUIPMENT AND SYSTEMS.
   B. PROVIDE 3 COMPLETE BOUND SETS OF INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL SYSTEMS AND EQUIPMENT.

CUTTING AND PATCHING
1. PROVIDE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING REQUIRED TO COMPLETE THE WORK.
2. OBTAIN OWNER APPROVAL PRIOR TO CUTTING THROUGH FLOORS OR WALLS FOR PIPING OR CONDUIT.

TESTS, INSPECTION AND APPROVAL
1. BEFORE ENERGIZING ANY ELECTRICAL INSTALLATION, INSPECT EACH UNIT IN DETAIL. TIGHTEN ALL BOLTS AND CONNECTIONS (TORQUE-TIGHTEN WHERE REQUIRED) AND DETERMINE THAT ALL COMPONENTS ARE ALIGNED, AND THE EQUIPMENT IS IN SAFE, OPERATIONAL CONDITION.
2. PROVIDE THE COMPLETE ELECTRICAL SYSTEM FREE OF GROUND FAULTS AND SHORT CIRCUITS SUCH THAT THE SYSTEM WILL OPERATE SATISFACTORILY UNDER FULL LOAD CONDITIONS, WITHOUT EXCESSIVE HEATING AT ANY POINT IN THE SYSTEM.

SPECIAL REQUIREMENTS
1. DO NOT LEAVE ANY WORK INCOMPLETE NOR ANY HAZARDOUS SITUATIONS CREATED WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. DO NOT INTERFERE WITH OR CUTOFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S WRITTEN PERMISSION.
2. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING BUILDING UTILITIES AND SERVICE SYSTEMS, INCLUDING FEEDER OR BRANCH CIRCUITING SUPPLYING EXISTING FACILITIES, CONFER WITH THE OWNER AND ARRANGE THE PERIOD OF INTERRUPTION FOR A TIME MUTUALLY AGREED UPON. SHUTDOWN NOTE: SCHEDULE AND NOTIFY OWNER 48 HOURS PRIOR TO SHUTDOWN. ALL SHUTDOWN WORK TO BE SCHEDULED AT A TIME CONVENIENT TO OWNER.

GROUNDING
1. ROUTE ALL GROUNDING CONDUCTORS AS SHOWN ON CONDUIT/GROUNDING RISER.
2. ROUTE 500 KCMIL CU. THHN CONDUCTOR FROM THE MGB LOCATION TO BUILDING STEEL. VERIFY BUILDING STEEL IS EFFECTIVELY GROUNDED PER NEC TO THE MAIN SERVICE GROUNDING ELECTRODE CONDUCTOR (GEC).
3. MAKE ALL GROUND CONNECTIONS FROM MGB TO ELECTRICAL EQUIPMENT WITH 2 HOLE, CRIMP TYPE, BURNDY COMPRESSION TERMINATIONS, SIZED AS REQUIRED.
4. USE 1 HOLE, CRIMP TYPE, BURNDY COMPRESSIONS TERMINATIONS, SIZED AS REQUIRED, AT EQUIPMENT GROUND CONNECTIONS.
5. HIRE AN INDEPENDENT LAB TO PERFORM THE SPECIFIED OHMS TESTING. PROVIDE 4 SETS OF THE CERTIFIED DOCUMENTS TO THE OWNER FOR VERIFICATION PRIOR TO THE PROJECT COMPLETION.

RACEWAYS
1. ALL WIRING TO BE INSTALLED IN CONDUIT SYSTEMS IN ACCORDANCE WITH THE FOLLOWING:
   A. EXTERIOR FEEDERS AND CONTROL, WHERE UNDERGROUND, TO BE IN SCH 40 PVC.
   B. EXTERIOR, ABOVE GROUND POWER CONDUITS TO BE GALVANIZED RIGID STEEL (RGS).
   C. ALL TELECOMMUNICATION CONDUITS, INTERIOR/EXTERIOR, TO BE EMT.

   ON THIS PROJECT.
   E. ALL TELECOM CONDUITS AND PULL BOXES INSTALLED ON THIS PROJECT TO BE LABELED "VERIZON". OWNER WILL PROVIDE LABELS FOR CONTRACTOR TO INSTALL.
   F. INTERIOR FEEDERS TO BE INSTALLED IN E.M.T. WITH STEEL COMPRESSION FITTINGS.
   G. MINIMUM SIZE CONDUIT TO BE ¾" TRADE SIZE UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
   H. FINAL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT TO BE INSTALLED IN LIQUID-TIGHT FLEXIBLE METAL CONDUIT.

   AREAS OR DRYWALL PARTITIONS, UNLESS OTHERWISE NOTED.
   J. THE ROUTING OF CONDUITS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC. BEFORE INSTALLING ANY WORK, EXAMINE THE WORKING LAYOUTS AND SHOP DRAWINGS OF THE OTHER TRADES TO DETERMINE THE EXACT LOCATIONS AND CLEARANCES.
   K. ALL EXTERIOR MOUNTING HARDWARE TO BE GALVANIZED STEEL. COORDINATE WITH BUILDING ENGINEER PRIOR TO ATTACHING TO BUILDING STRUCTURE.

RACEWAYS CONT'D
   L. PENETRATIONS OF WALLS, FLOORS AND ROOFS, FOR THE PASSAGE OF ELECTRICAL RACEWAYS, TO BE PROPERLY SEALED AFTER INSTALLATION OF RACEWAYS SO AS TO MAINTAIN THE STRUCTURAL OR WATERPROOF INTEGRITY OF THE WALL, FLOOR OR ROOF SYSTEM TO BE PENETRATED. SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE OR SMOKE RATED WALLS, CEILINGS OR SMOKE TIGHT CORRIDOR PARTITIONS TO MAINTAIN PROPER RATING OF WALL OR CEILING.
   M. PROVIDE ALL CONDUIT ENDS WITH INSULATED METALLIC GROUNDING BUSHINGS.
   N. CONDUIT TO BE SUPPORTED AT MAXIMUM DISTANCE OF 8'-0", OR AS REQUIRED BY NEC, IN HORIZONTAL AND VERTICAL DIRECTIONS.
   O. PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR ALL JUNCTION BOXES AND/OR OUTLET BOXES NOT USED IN EXPOSED AREAS. PROVIDE ALL OTHER UNUSED BOXES WITH STANDARD STEEL COVER PLATES.
   P. WHERE APPLICABLE, PROVIDE ROOFTOP CONDUIT SUPPORT SYSTEM, CONFORMING TO ROOFTOP WARRANTY REQUIREMENTS, PER BUILDING.

WIRES AND CABLES
1. CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIER AND VENDOR FOR EXACT EQUIPMENT OVER-CURRENT PROTECTION VOLTAGE, WIRE SIZE AND PLUG CONFIGURATION, IF APPLICABLE, PRIOR TO BID.
2. ALL EQUIPMENT/DEVICES TO BE PROVIDED WITH INSULATED GROUND CONDUCTOR.
3. ALL WIRE AND CABLE TO BE 600VOLT, COPPER, WITH THWN/THHN INSULATION, EXCEPT AS NOTED.
4. WIRE FOR POWER AND LIGHTING WILL NOT BE LESS THAN NO. 12AWG. ALL WIRE NO. 8 AND LARGER TO BE STRANDED.
5. CONTROL WIRING IS NOT TO BE LESS THAN NO. 14AWG, FLEXIBLE IN SINGLE CONDUCTORS OR MULTI-CONDUCTOR CABLES. CONTROL WIRING WILL CONSIST OF MULTI-CONDUCTOR CABLES WHEREVER POSSIBLE. CABLES TO BE PROVIDED WITH AN OVERALL FLAME-RETARDANT, EXTRUDED JACKET AND RATED FOR PLENUM USE. ALL CONTROL WIRE TO BE 600VOLT RATED.
6. WIRE PREVIOUSLY PULLED INTO CONDUIT IS CONSIDERED USED AND IS NOT TO BE RE-PULLED.
7. HOME RUNS AND BRANCH CIRCUIT WIRING FOR 20A, 120V CIRCUITS:

LENGTH (FT.)	HOME RUN WIRE SIZE
0 TO 50	NO. 12
51 TO 100	NO. 10
101 TO 150	NO. 8

8. VOLTAGE DROP IS NOT TO EXCEED 3%
9. MAKE ALL CONNECTIONS WITH UL APPROVED, SOLDERLESS, PRESSURE TYPE INSULATED CONNECTORS: SCOTCHLOK OR AND APPROVED EQUAL.

WIRING DEVICES
1. ALL RECEPTACLES INSTALLED IN THIS PROJECT TO BE GROUNDING TYPE, WITH GROUNDING PIN SLOT CONNECTED TO DEVICE GROUND SCREW FOR GROUND WIRE CONNECTION.

DISCONNECT SWITCHES AND FUSES
1. DISCONNECT SWITCHES TO BE VOLTAGE-RATED TO SUIT THE CHARACTERISTICS OF THE SYSTEM FROM WHICH THEY ARE SUPPLIED.
2. PROVIDE HEAVY-DUTY, METAL-ENCLOSED, EXTERNALLY-OPERATED DISCONNECT SWITCHES, FUSED OR UNFUSED, OF SUCH TYPE AND SIZE AS REQUIRED TO PROPERLY PROTECT OR DISCONNECT THE LOAD FOR WHICH THEY ARE INTENDED.
3. PROVIDE NEMA 1 DISCONNECT SWITCHES FOR INTERIOR INSTALLATION, NEMA 3R FOR EXTERIOR INSTALLATION.
4. DISCONNECT SWITCHES TO BE MANUFACTURED BY:
   A. GENERAL ELECTRIC COMPANY
   B. SQUARE-D
5. PROVIDE RK-1 TYPE FUSES, UNLESS NOTED OTHERWISE.

INSTALLATION
1. INSTALL DISCONNECT SWITCHES WHERE INDICATED ON DRAWINGS.
2. INSTALL FUSES IN FUSIBLE DISCONNECT SWITCHES. FUSES MUST MATCH IN TYPE AND RATING.
3. FUSES TO BE MOUNTED SO THAT THE LABELS SHOWING THEIR RATINGS CAN BE READ WITHOUT REQUIRING FUSE REMOVAL.
4. FURNISH AND DEPOSIT SPARE FUSES AT THE JOB SITE AS FOLLOWS:
   A. THREE SPARES FOR EACH TYPE AND SIZE, IN EXCESS OF 60A, USED FOR INITIAL FUSING.
   B. TEN PERCENT SPARES FOR EACH TYPE AND SIZE, UP TO AND INCLUDING 60A, USED FOR INITIAL FUSING. IN NO CASE WILL LESS THAN THREE FUSES OF ONE PARTICULAR TYPE AND SIZE BE FURNISHED.

CONFLICTS
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATIONS OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
2. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING SUCH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.
3. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED, OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

CONTRACTS AND WARRANTIES
1. CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LICENSES AND BONDS.
2. SEE MASTER CONTRACTION SERVICES AGREEMENT FOR ADDITIONAL DETAILS.

STORAGE
1. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION AND IN A MANNER THAT DOES NOT NECESSARILY OBSTRUCT THE FLOW OF OTHER WORK. ANY STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

CLEANUP
1. THE CONTRACTORS SHALL, AT ALL TIMES, KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR EMPLOYEES AT WORK AND AT THE COMPLETION OF THE WORK. THEY SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL THEIR TOOLS, SCAFFOLDING AND SURPLUS MATERIALS AND SHALL LEAVE THEIR WORK CLEAN AND READY TO USE.
2. EXTERIOR
   A. VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER.
   B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
   C. IF NECESSARY, TO ACHIEVE A UNIFORM DEGREE OF CLEANLINESS, HOSE DOWN THE EXTERIOR OF THE STRUCTURE.
3. INTERIOR
   A. VISUALLY INSPECT INTERIOR SURFACE AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER FROM WALLS, FLOOR, AND CEILING.
   B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
   C. REMOVE PAINT DROPPINGS, SPOTS, STAINS, AND DIRT FROM FINISHED SURFACES.

CHANGE ORDER PROCEDURE:
1. REFER TO SECTION 17 OF SIGNED MCSA: SEE PROFESSIONAL SERVICE AGREEMENT FOR MCSA.

RELATED DOCUMENTS AND COORDINATION
1. GENERAL CARPENTRY, ELECTRICAL AND ANTENNA DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, THE CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

SHOP DRAWINGS
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND LISTED IN THESE SPECIFICATIONS TO THE OWNER FOR APPROVAL.
2. ALL SHOP DRAWINGS SHALL BE REVIEWED, CHECKED AND CORRECTED BY CONTRACTOR PRIOR TO SUBMITTAL TO THE OWNER.

PRODUCTS AND SUBSTITUTIONS
1. SUBMIT 3 COPIES OF EACH REQUEST FOR SUBSTITUTION. IN EACH REQUEST, IDENTIFY THE PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION. INCLUDE RELATED SPECIFICATION SECTION AND DRAWING NUMBERS AND COMPLETE DOCUMENTATION SHOWING COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS.
2. SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS, PRODUCTS AND MATERIALS BEING INSTALLED. THE CONTRACTOR SHALL, IF DEEMED NECESSARY BY THE OWNER, SUBMIT ACTUAL SAMPLES TO THE OWNER FOR APPROVAL IN LIEU OF CUT SHEETS.

QUALITY ASSURANCE
1. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THESE SHALL INCLUDE, BUT NOT BE LIMITED TO THE APPLICABLE CODES SET FORTH BY THE LOCAL GOVERNING BODY. SEE "CODE COMPLIANCE" T-1.

ADMINISTRATION
1. BEFORE THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THIS PROJECT MANAGER WILL DEVELOP A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.
2. SUBMIT A BAR TYPE PROGRESS CHART, NOT MORE THAN 3 DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE, INDICATING A TIME BAR FOR EACH MAJOR CATEGORY OR UNIT OF WORK TO BE PERFORMED AT THE SITE, PROPERLY SEQUENCED AND COORDINATED WITH OTHER ELEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE WORK.
3. PRIOR TO COMMENCING CONSTRUCTION, THE OWNER SHALL SCHEDULE AN ON-SITE MEETING WITH ALL MAJOR PARTIES. THIS WOULD INCLUDE, BUT NOT LIMITED TO, THE OWNER, PROJECT MANAGER, CONTRACTOR, LAND OWNER REPRESENTATIVE, LOCAL TELEPHONE COMPANY, TOWER ERECTION FOREMAN (IF SUBCONTRACTED).
4. CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR A BEEPER. THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE OWNER, NOR WILL WIRELESS SERVICE BE ARRANGED.
5. DURING CONSTRUCTION, CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. CONTRACTOR WILL COMPLY WITH ALL WPCS SAFETY REQUIREMENTS IN THEIR AGREEMENT.
6. PROVIDE WRITTEN DAILY UPDATES ON SITE PROGRESS TO THE OWNER.
7. COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO START OF CONSTRUCTION.
8. NOTIFY THE OWNER/PROJECT MANAGER IN WRITING NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.

INSURANCE AND BONDS
1. CONTRACTOR, AT THEIR OWN EXPENSE, SHALL CARRY AND MAINTAIN, FOR THE DURATION OF THE PROJECT, ALL INSURANCE, AS REQUIRED AND LISTED, AND SHALL NOT COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE STATING ALL COVERAGES TO THE OWNER. REFER TO THE MASTER AGREEMENT FOR REQUIRED INSURANCE LIMITS.
2. THE OWNER SHALL BE NAMED AS AN ADDITIONAL INSURED ON ALL POLICIES.
3. CONTRACTOR MUST PROVIDE PROOF OF INSURANCE.

GENERAL NOTES:

INTENT
1. THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS ACCOMPANYING THEM DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION.
2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED, OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN,INDICATED OR SPECIFIED IN BOTH
3. THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
4. THE PURPOSE OF THE SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE AND QUALITY OF MATERIALS REQUIRED TO COMPLETE THE WORK.
5. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.

ABBREVIATIONS	
ADJ	ADJUSTABLE
AGL	ABOVE GROUND LINE
&	AND
APPROX	APPROXIMATE
@	AT
BTS	BASE TRANSMISSION STATION
CAB	CABINET
CLG	CEILING
CONC	CONCRETE
CONT	CONTINUOUS
DIA OR ø	DIAMETER
DWG	DRAWING
EA	EACH
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
EGB	EQUIPMENT GROUND BAR
(E)	EXISTING
EXT	EXTERIOR
FF	FINISHED FLOOR
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GRND	GROUND
LG	LONG
MAX	MAXIMUM
MECH	MECHANICAL
MW	MICROWAVE DISH
MFR	MANUFACTURER
MGB	MASTER GROUND BAR
MIN	MINIMUM
MTL	METAL
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
(P)	PROPOSED
PCS	PERSONAL COMMUNICATION SYSTEM
PPC	POWER PROTECTION CABINET
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SS	STAINLESS STEEL
STL	STEEL
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TYP	TYPICAL
VIF	VERIFY IN FIELD
UON	UNLESS OTHERWISE NOTED
WWF	WELDED WIRE FABRIC
W/	WITH

PLANS PREPARED FOR:
verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

PLANS PREPARED BY:

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JOB NUMBER: TBD

MLA PARTNER:
CROWN CASTLE

ENGINEERING LICENSE:
STATE OF CONNECTICUT
JOHN S. STEVENS
LICENSED PROFESSIONAL ENGINEER
NOV 30 2018

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	11/19/18	RCD	A

VERIZON SITE NAME:
MILFORD 2 CT

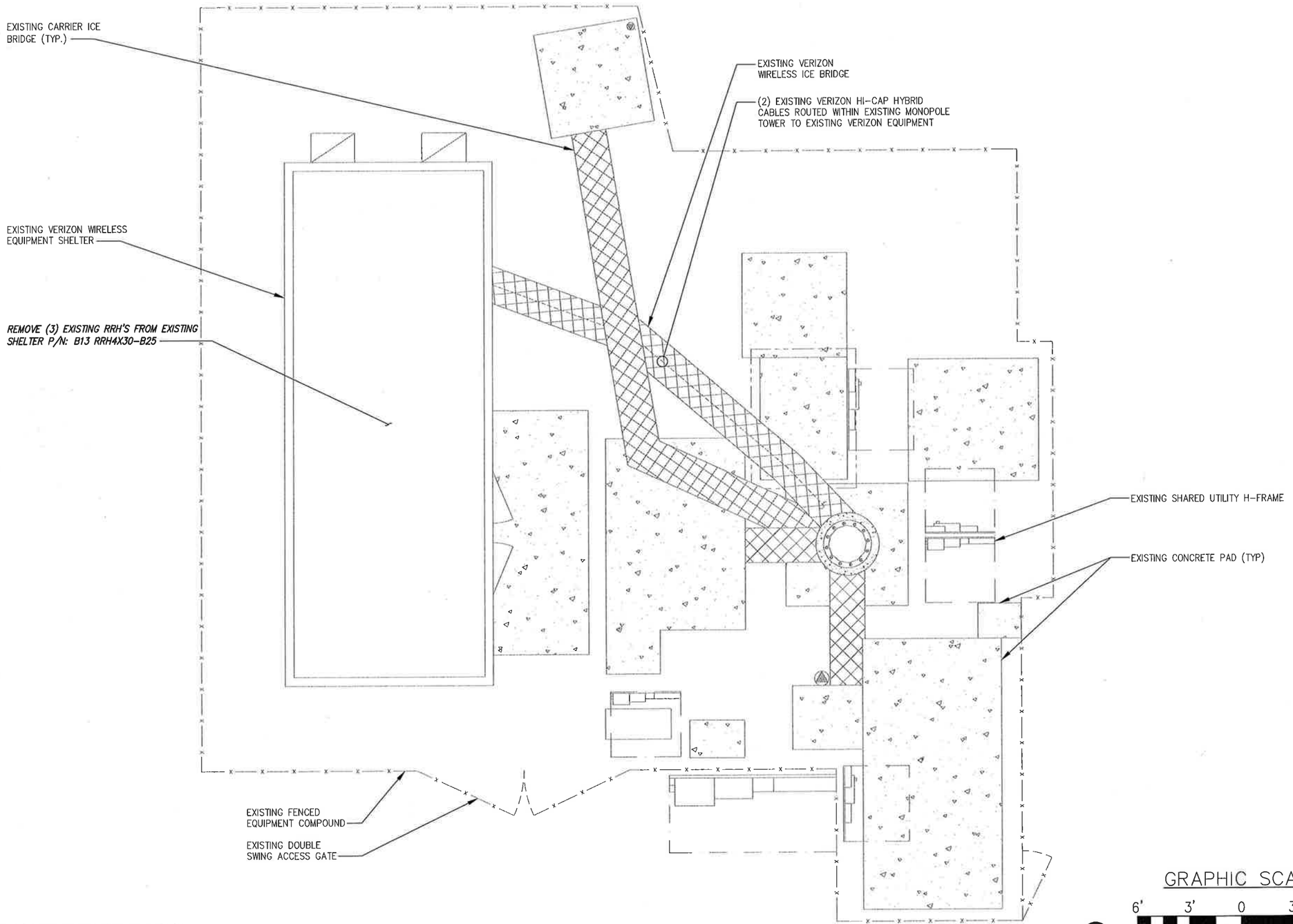
CROWN CASTLE SITE NAME:
BIC DRIVE (SSUSA)

CROWN CASTLE BU #:
876342

SITE ADDRESS:
111 SCHOOL HOUSE ROAD, A/K/A
BIC DRIVE
MILFORD, CT 06460

SHEET DESCRIPTION:
VERIZON
SPECIFICATIONS

SHEET NUMBER:
SP-1



GRAPHIC SCALE

6' 3' 0 3' 6'

SCALE: 22"x34" SHEET 1"= 3'
SCALE: 11"x17" SHEET 1"= 6'

INFORMATION CONTAINED WITHIN DRAWINGS IS BASED ON PROVIDED INFORMATION AND IS NOT THE RESULT OF A FIELD SURVEY. CONTRACTOR TO VERIFY EXISTING FIELD CONDITIONS PRIOR TO ANY CONSTRUCTION

OVERALL SITE PLAN

SCALE: AS NOTED | 1

PLANS PREPARED FOR:

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ENGINEERING LICENSE:

STATE OF CONNECTICUT
JOHN S. STEVENS
No. 21795
LICENSED PROFESSIONAL ENGINEER
NOV 30 2018

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REVISIONS:

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CROWN CASTLE BU #:
876342

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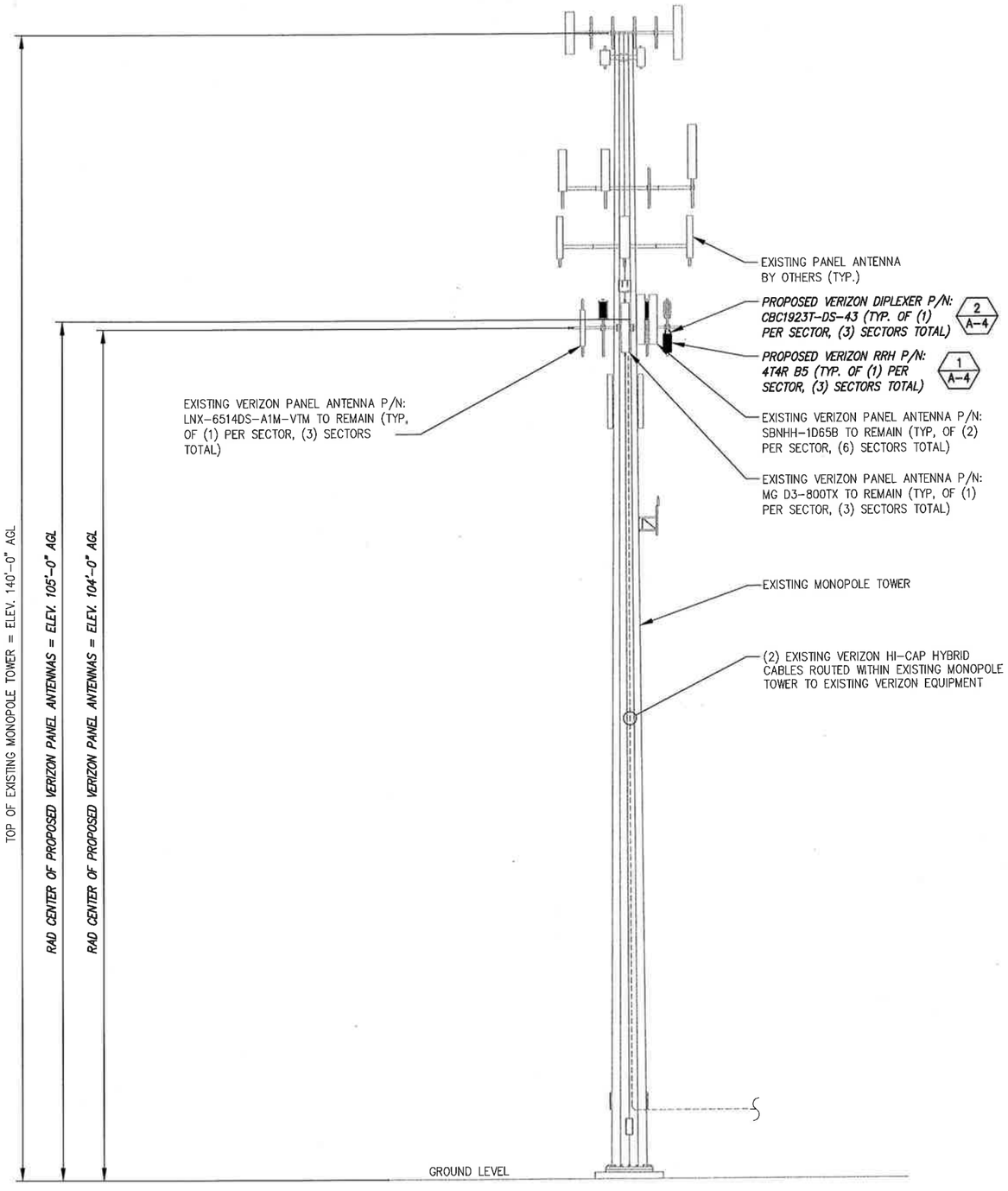
111 SCHOOL HOUSE ROAD, A/K/A
BIC DRIVE
MILFORD, CT 06460

SHEET DESCRIPTION:
OVERALL SITE PLAN

SHEET NUMBER:
A-1

INFINIGY ENGINEERING HAS NOT EVALUATED THE TOWER OR MOUNT FOR THIS SITE AND ASSUMES NO RESPONSIBILITY FOR ITS STRUCTURAL INTEGRITY. REFER TO STRUCTURAL ANALYSIS BY OTHERS PRIOR TO ANY CONSTRUCTION.



PROPOSED TOWER ELEVATION | NO SCALE | 1

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CROWN CASTLE

ENGINEERING LICENSE:

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JOHN S. STEVENS
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LICENSED PROFESSIONAL ENGINEER
NOV 30 2018

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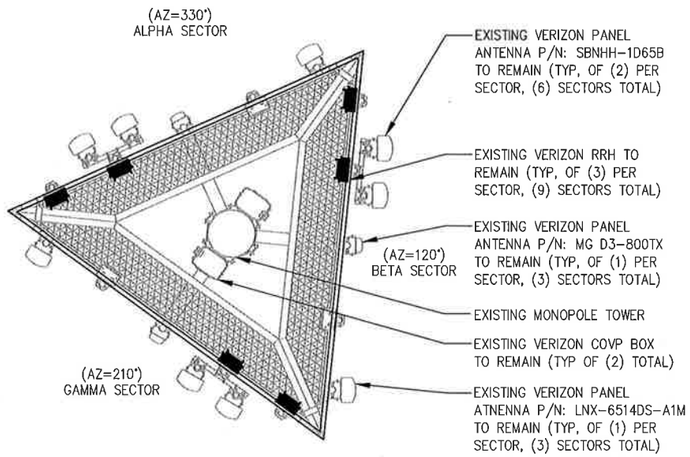
BIC DRIVE (SSUSA)

CROWN CASTLE BU #:
876342

SITE ADDRESS:
111 SCHOOL HOUSE ROAD, A/K/A
BIC DRIVE
MILFORD, CT 06460

SHEET DESCRIPTION:
TOWER
ELEVATION

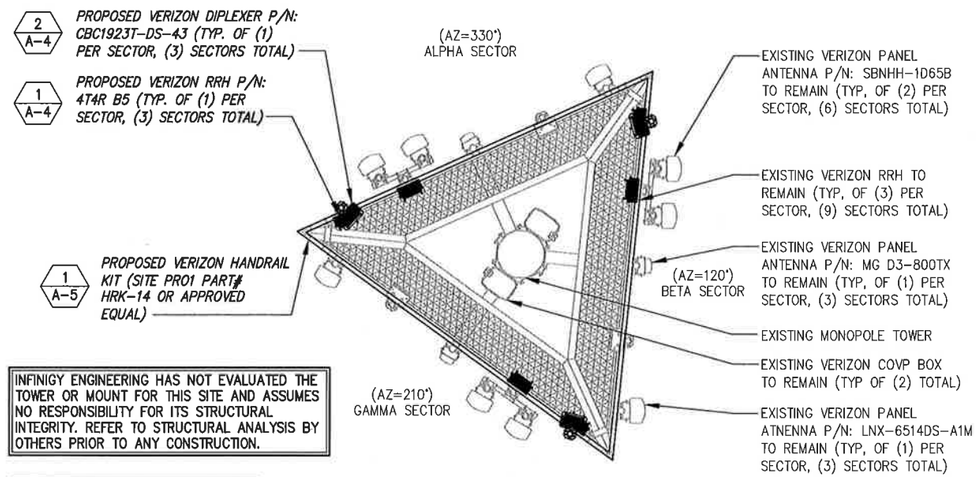
SHEET NUMBER:
A-2



NOTE:
CONTRACTOR TO VERIFY EQUIPMENT & MOUNTING HARDWARE DOES NOT TRAP OR INTERFERE WITH SAFETY CLIMB

NORTH = 0°

EXISTING ANTENNA LAYOUT | NO SCALE | 2



INFINIGY ENGINEERING HAS NOT EVALUATED THE TOWER OR MOUNT FOR THIS SITE AND ASSUMES NO RESPONSIBILITY FOR ITS STRUCTURAL INTEGRITY. REFER TO STRUCTURAL ANALYSIS BY OTHERS PRIOR TO ANY CONSTRUCTION.

THE CONFIGURATION PLAN IS BASED ON PROVIDED INFORMATION AND IS FOR CONCEPTUAL PURPOSES ONLY. CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION.

NORTH = 0°

PROPOSED ANTENNA LAYOUT | NO SCALE | 2

SITE LOADING CHART

SECTOR	POSITION	SECTOR COLOR	TECHNOLOGY	ANTENNA MODEL #	VENDOR	QTY. (REMOVED)	QTY. (NEW)	RRH (QTY/MODEL)	AZIMUTH	DOWNTILT MECHANICAL	DOWNTILT ELECTRICAL	RAD CENTER	FEED LINE TYPE/LENGTH (FEET + 20%)
ALPHA	A1	RED	700 LTE/ 850 LTE/1900 LTE	SBNHH-1D65B	COMMSCOPE	---	---	(1) B13 RRH 4X30 *4T4R B5/DIPLEXER CBC1923T-DS-43*	330°	0°	4°	±105' AGL	(1) EXISTING HYBRID CABLE
ALPHA	A2	RED	700 LTE/ 850 LTE/2100 LTE	SBNHH-1D65B	COMMSCOPE	---	---	(1) B66A RRH 4X45 (1) B13 RRH 4X30	330°	0°	2°	±105' AGL	(1) EXISTING HYBRID CABLE
ALPHA	A3	RED	---	MG D3-800TX	RYMSA WIRELESS	---	---	---	330°	0°	2°	±104' AGL	EXISTING COAX
ALPHA	A4	RED	850 CDMA	LNX-6514DS-VTM	ANDREW	---	---	---	330°	0°	2°	±104' AGL	EXISTING COAX
BETA	B1	BLUE	700 LTE/ 850 LTE/1900 LTE	SBNHH-1D65B	COMMSCOPE	---	---	(1) B13 RRH 4X30 *4T4R B5/DIPLEXER CBC1923T-DS-43*	120°	0°	2°	±105' AGL	EXISTING SHARED HYBRID
BETA	B2	BLUE	700 LTE/ 850 LTE/2100 LTE	SBNHH-1D65B	COMMSCOPE	---	---	(1) B66A RRH 4X45 (1) B13 RRH 4X30	120°	0°	1°	±105' AGL	EXISTING SHARED HYBRID
BETA	B3	BLUE	---	MG D3-800TX	RYMSA WIRELESS	---	---	---	120°	0°	2°	±104' AGL	EXISTING COAX
BETA	B4	BLUE	850 CDMA	LNX-6514DS-VTM	ANDREW	---	---	---	120°	0°	2°	±104' AGL	EXISTING COAX
GAMMA	G1	WHITE	700 LTE/ 850 LTE/1900 LTE	SBNHH-1D65B	COMMSCOPE	---	---	(1) B13 RRH 4X30 *4T4R B5/DIPLEXER CBC1923T-DS-43*	210°	0°	2°	±105' AGL	EXISTING SHARED HYBRID
GAMMA	G2	WHITE	700 LTE/ 850 LTE/2100 LTE	SBNHH-1D65B	COMMSCOPE	---	---	(1) B66A RRH 4X45 (1) B13 RRH 4X30	210°	0°	1°	±105' AGL	EXISTING SHARED HYBRID
GAMMA	G3	WHITE	---	MG D3-800TX	RYMSA WIRELESS	---	---	---	210°	0°	2°	±104' AGL	EXISTING COAX
GAMMA	G4	WHITE	850 CDMA	LNX-6514DS-VTM	ANDREW	---	---	---	210°	0°	2°	±104' AGL	EXISTING COAX

NOTE:
CABLE LENGTHS ARE BASED ON PROVIDED INFORMATION. CONTRACTOR TO VERIFY REQUIRED CABLE LENGTHS PRIOR TO CONSTRUCTION.

SITE LOADING CHART | NO SCALE | 3

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BEDMINSTER, NJ 07921

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MLA PARTNER:
CROWN CASTLE

ENGINEERING LICENSE:
STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24705
LICENSED PROFESSIONAL ENGINEER
11/19/2018

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	11/19/18	RCD	A

VERIZON SITE NAME:
MILFORD 2 CT

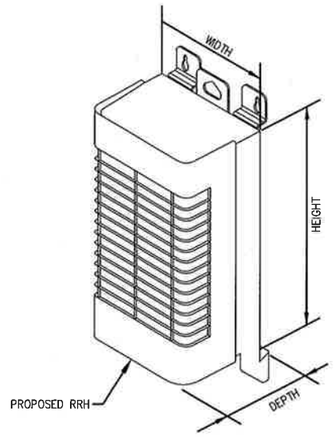
CROWN CASTLE SITE NAME:
BIC DRIVE (SSUSA)

CROWN CASTLE BU #:
876342

SITE ADDRESS:
111 SCHOOL HOUSE ROAD, A/K/A
BIC DRIVE
MILFORD, CT 06460

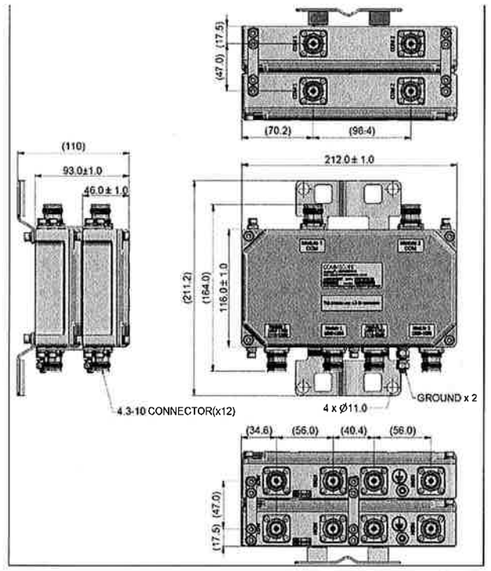
SHEET DESCRIPTION:
ANTENNA LAYOUT & LOADING CHART

SHEET NUMBER:
A-3



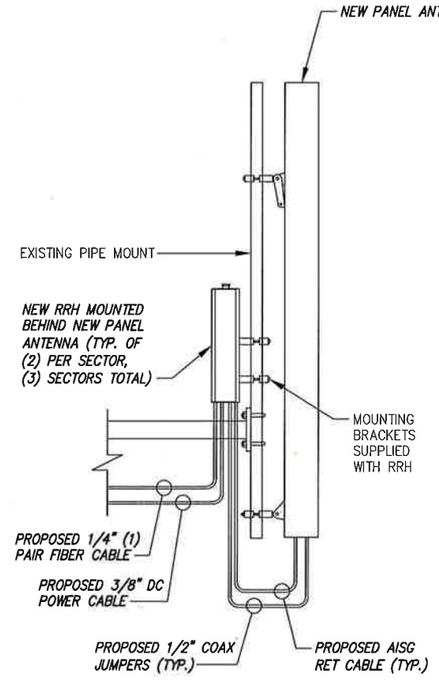
SIZE AND WEIGHT TABLE				
RRH	WIDTH	DEPTH	HEIGHT	WEIGHT WO BRACKET
4T4R B5	11.6"	6.5"	13.30"	36.80 LBS

REMOTE RADIO HEAD SPECIFICATIONS | NO SCALE | 1



SIZE AND WEIGHT TABLE				
RRH	WIDTH	DEPTH	HEIGHT	WEIGHT WO BRACKET
CBC1923TDS- 43	5.5"	4.0"	6.9"	8.4 LBS

REMOTE RADIO HEAD SPECIFICATIONS | NO SCALE | 2



RRH MOUNTING DETAIL | NO SCALE | 2

NOT USED | NO SCALE | 4

PLANS PREPARED FOR:

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160 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

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CROWN CASTLE SITE NAME:

BIC DRIVE (SSUSA)

CROWN CASTLE BU #:

876342

SITE ADDRESS:

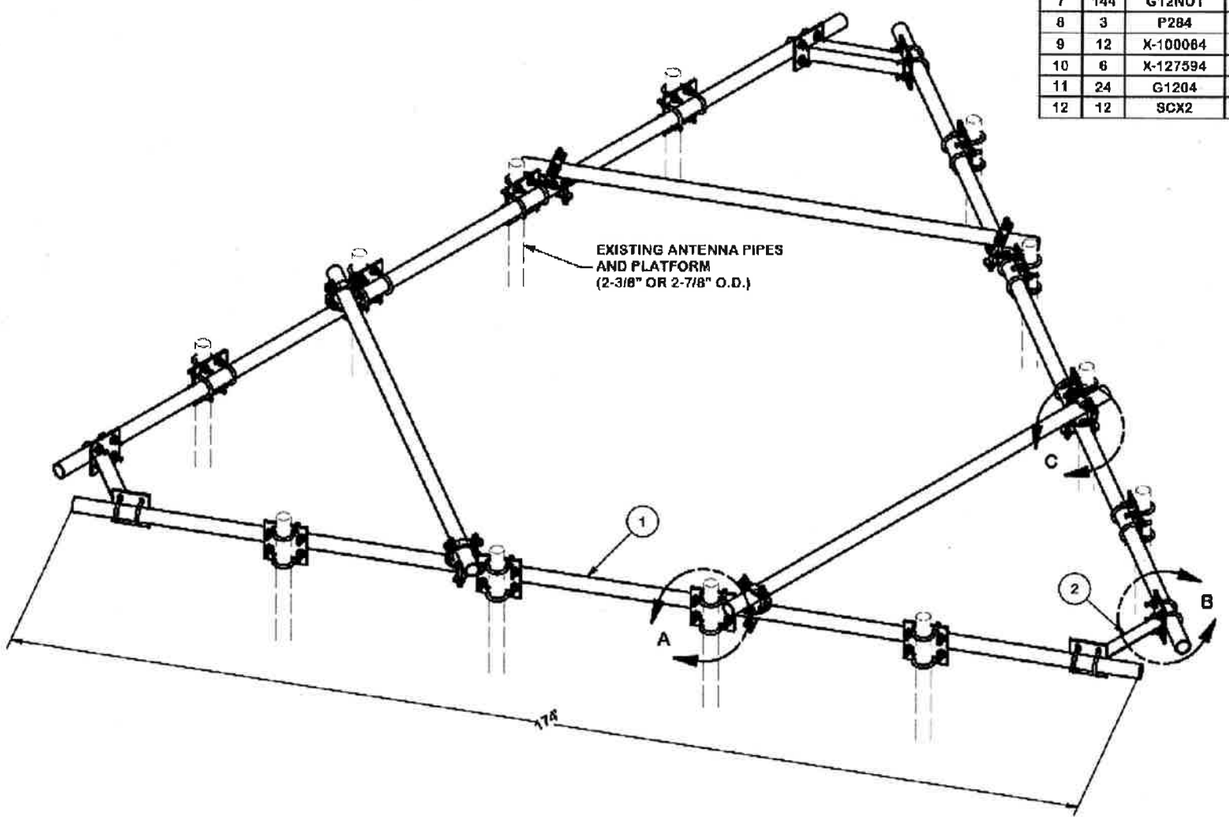
111 SCHOOL HOUSE ROAD, A/K/A
BIC DRIVE
MILFORD, CT 06460

SHEET DESCRIPTION:

EQUIPMENT & MOUNTING DETAILS

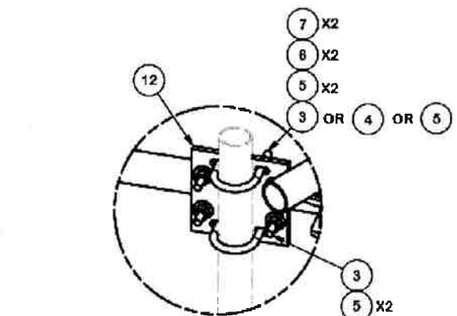
SHEET NUMBER:

A-4



PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P2174	2-3/8" OD X 174" SCH 40 GALVANIZED PIPE	174 in	55.75	167.24
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	60	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	15.42
4	24	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.26	6.17
5	144	G12FW	1/2" HDG USS FLATWASHER		0.03	4.91
6	144	G12LW	1/2" HDG LOCKWASHER		0.01	2.00
7	144	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	10.31
8	3	P284	2-3/8" X 84" SCH 40 GALVANIZED PIPE	84 in	26.91	80.74
9	12	X-100084	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	10.95
10	6	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.48	14.90
11	24	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	6.48
12	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
					TOTAL WT. #	448.08



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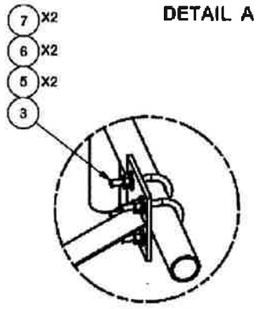

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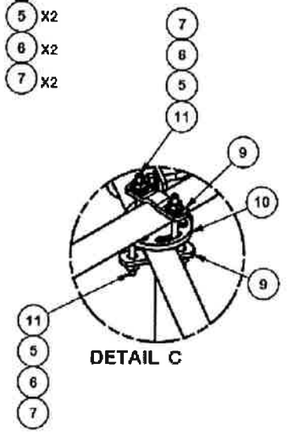


DETAIL C

HANDRAIL KIT (SITE PRO1 PART# HRK-14)

NO SCALE | 1

PLANS PREPARED FOR:

verizon

180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

PLANS PREPARED BY:

INFINIGY

FROM ZERO TO INFINIGY
the solutions are endless

1490 W. 121st Ave., Suite 101
Westminster, CO 80234
Office # (303) 219-1178
Fax # (303) 242-8636
JOB NUMBER: TBD

MLA PARTNER:

CROWN CASTLE

ENGINEERING LICENSE:

STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24705
LICENSED PROFESSIONAL ENGINEER
NOV 30 2018

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	11/19/18	RCD	A

VERIZON SITE NAME:
MILFORD 2 CT

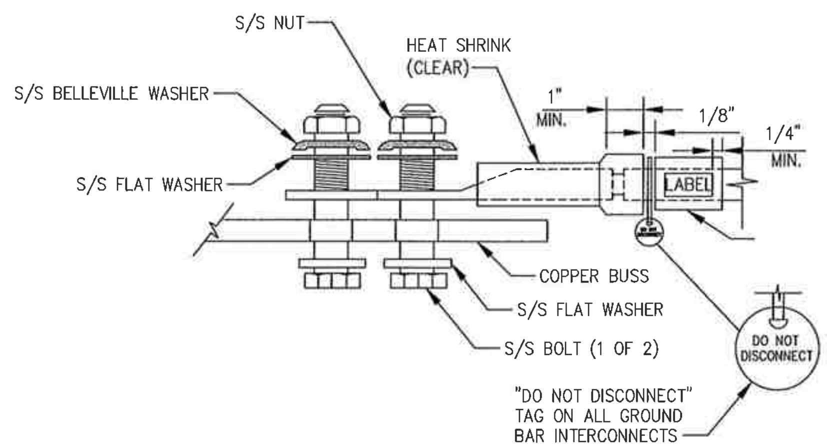
CROWN CASTLE SITE NAME:
BIC DRIVE (SSUSA)

CROWN CASTLE BU #:
876342

SITE ADDRESS:
111 SCHOOL HOUSE ROAD, A/K/A
BIC DRIVE
MILFORD, CT 06460

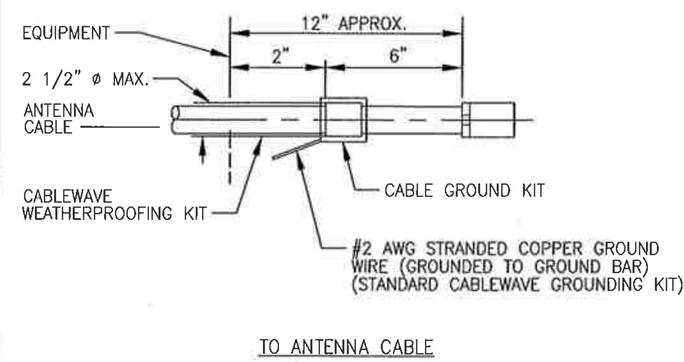
SHEET DESCRIPTION:
EQUIPMENT
DETAILS

SHEET NUMBER:
A-5



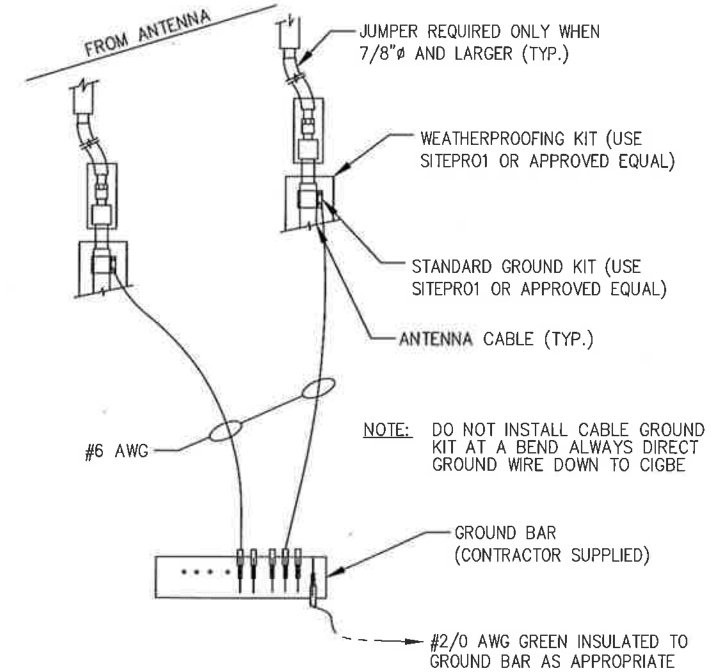
NOTE:
ALL MECHANICAL EXTERNAL TERMINATION SURFACES SHALL BE TREATED WITH T&B KOPR-SHIELD CP8 ANTI-OXIDATION COMPOUND.

TYPICAL EQUIPMENT GROUND CONNECTION	NO SCALE	1



NOTE:
DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

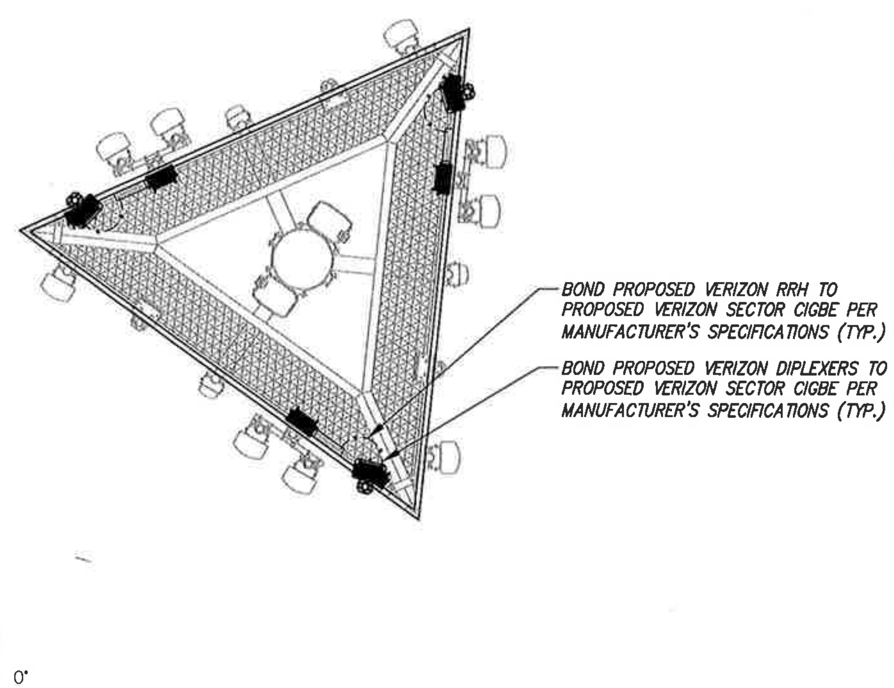
TYPICAL CABLE GROUND KIT CONNECTION	NO SCALE	2



TYPICAL CONNECTION OF GROUND WIRES TO GROUNDING BARS @ ANTENNAS	NO SCALE	3

GENERAL GROUNDING NOTES:

1. TO ENSURE PROPER BONDING, ALL CONNECTIONS SHALL BE AS FOLLOWS:
   - #2 BARE TINNED SOLID COPPER CONDUCTOR: EXOTHERMIC WELD TO RODS OR GROUND RING
   - LUGS AND BUS BAR (UNLESS NOTED OTHERWISE): SANDED CLEAN, COATED WITH OXIDE INHIBITOR AND BOLTED FOR MAXIMUM SURFACE CONTACT. ALL LUGS SHALL BE COPPER (NO ALUMINUM SHALL BE PERMITTED). PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
2. ALL GROUNDING CABLE IN CONCRETE OR THROUGH WALLS SHALL BE IN 3/4" PVC CONDUIT. SEAL AROUND CONDUIT THROUGH WALLS. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS.
3. OWNER'S REPRESENTATIVE WILL INSPECT EXOTHERMIC WELD AND CONDUCT MEGGER TEST PRIOR TO BURIAL. MAXIMUM 5 OHMS RESISTANCE IS REQUIRED.
4. CONTRACTOR TO INSTALL GROUNDING IN CLOSE PROXIMITY TO EQUIPMENT PLATFORM OR PAD.
5. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS SHALL BE A MINIMUM 8" RADIUS AND NO GREATER THAN 90 DEGREES.
6. ALL CADWELDS TO BURIED GROUND RING SHALL BE THE PARALLEL TYPE, EXCEPT FOR THE GROUND RODS WHICH SHALL BE THE TEE TYPE.
7. BOND SERVICE CONDUITS TO GROUND RING AS THEY CROSS. DO NOT EXOTHERMICALLY WELD TO CONDUITS.
8. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.
9. THE MINIMUM SPACING BETWEEN GROUND RODS SHALL BE 10'-0" (MAX. 15'-0").
10. BOND CIGBE TO EXTERNAL GROUND RING WITH 2 RUNS OF #2 BARE, TINNED, SOLID COPPER CONDUCTOR IN PVC. CONNECT BAR END WITH 2 HOLE LUG, AND "CADWELD" THE OTHER END TO THE EXTERNAL GROUND ROD.
11. THE PREFERRED LOCATION FOR COAX GROUNDING IS AT THE BASE OF THE TOWER PRIOR TO THE COAX BEND.
12. BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250-30.



GROUNDING SYMBOLS:

Symbol	Description
⊗	GROUND ROD
☐	ACCESS WELL
⊠	GROUND ROD WITH ACCESS
■	COMPRESSION TYPE CONNECTION
●	EXOTHERMIC WELD TYPE CONNECTION
—— G ——	#2/0 BTS COPPER CONDUCTOR BURIED GROUND CABLE
⬡	INDICATES CODED NOTE

TYPICAL ANTENNA GROUNDING PLAN	NO SCALE	1

PLANS PREPARED FOR:
verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

PLANS PREPARED BY:
INFINIGY
FROM ZERO TO INFINIGY
the solutions are endless
1490 W. 121st. Ave., Suite 101
Westminster, CO 80234
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JOB NUMBER: TBD

MLA PARTNER:
CROWN CASTLE

ENGINEERING LICENSE:
STATE OF CONNECTICUT · JOHN S. STEVENS · No. 24705 · LICENSED PROFESSIONAL ENGINEER
NOV 19 2018

DRAWING NOTICE:

REVISIONS:

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	11/19/18	RCD	A

VERIZON SITE NAME: MILFORD 2 CT

CROWN CASTLE SITE NAME: BIC DRIVE (SSUSA)

CROWN CASTLE BU #: 876342

SITE ADDRESS: 111 SCHOOL HOUSE ROAD, A/K/A BIC DRIVE MILFORD, CT 06460

SHEET DESCRIPTION: GROUNDING PLANS

SHEET NUMBER: G-1

mo'nel

HARRIS
BEACH &
WILCOX
A LIMITED LIABILITY PARTNERSHIP

ATTORNEYS AT LAW

147 NORTH BROAD STREET
MILFORD, CONNECTICUT 06460-0112
(203) 877-8000
(203) 878-9800 (Fax)

May 13, 1997

Ms. Julie Reach
Sprint Spectrum L.P.
9 Barnes Industrial Road
Wallingford, Connecticut 06492

Re: Sprint Site #171; Milford
111 School House Road

Dear Julie:

Enclosed please find letter dated May 7, 1997, from the Planning and Zoning Board approving our Minor Amendment to Special Permit and Site Plan Review to construct a monopole at 111 School House Road, Milford. We will pick up the Certificate and record it. We will thereafter obtain the Zoning Permit so that you may obtain your Building Permit.

If you have any questions, please call.

Very truly yours,

LEWIS A. HURWITZ
LAH/dsw
Enc.

cc: Mr. Laurance R. Woods
Mr. Steve Paisner

mike o'neil

HARRIS
BEACH &
WILCOX
A LIMITED LIABILITY PARTNERSHIP

ATTORNEYS AT LAW

147 NORTH BROAD STREET
MILFORD, CONNECTICUT 06460-0112
(203) 877-8000
(203) 878-9800 (Fax)

May 7, 1997

Via Telecopier

Ms. Julie Reach
Sprint Spectrum L.P.
9 Barnes Industrial Road
Wallingford, Connecticut 06492

Re: Sprint Site #171; Milford
Susse Chalet, School House Road

Dear Julie:

Please be advised that our Special Permit to construct a monopole at the Susse Chalet, School House Road site, was approved on May 6, 1997. In all probability, the approval will be published in Friday's newspaper, and the appeal period is fifteen (15) days thereafter. We will receive a Special Permit from the Planning & Zoning Board for recording. As soon as we receive it and the letter of approval, we will be able to obtain the Zoning Permit and the Building Permit immediately thereafter.

Very truly yours,

LEWIS A. HURWITZ
LAH/dsw

HARRIS
BEACH &
WILCOX
A LIMITED LIABILITY PARTNERSHIP

ATTORNEYS AT LAW

147 NORTH BROAD STREET
MILFORD, CONNECTICUT 06460-0112
(203) 877-8000
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LEWIS A. HURIWTZ
LAH/dsw

HARRIS
BEACH &
WILCOX
A LIMITED LIABILITY PARTNERSHIP

ATTORNEYS AT LAW

147 NORTH BROAD STREET
MILFORD, CONNECTICUT 06460-0112
(203) 877-8000
(203) 878-9800 (Fax)

February 14, 1997

Mr. Laurance Woods
Sprint Spectrum L.P.
9 Barnes Industrial Road
Wallingford, Connecticut 06492

Re: Sprint Site #171; Milford
(111 School House Road)

Dear Larry:

Enclosed please find copy of letter dated February 12, 1997, received from the Milford Zoning Board of Appeals approving our variance for 111 School House Road, Milford, Connecticut. I will record the attached certificate signifying the variance and assume that you will send a copy of this to the landlord for his file.

Should you have any questions, please do not hesitate to call.

Very truly yours,

LEWIS A. HURIWTZ
LAH/dsw
Enc.

cc: Julie Reach

HARRIS
BEACH &
WILCOX
A LIMITED LIABILITY PARTNERSHIP

ATTORNEYS AT LAW

147 NORTH BROAD STREET
MILFORD, CONNECTICUT 06460-0112
(203) 877-8000
(203) 878-9800 (Fax)

February 14, 1997

Mr. Steve Paisner
Sprint Spectrum L.P.
9 Barnes Industrial Road
Wallingford, Connecticut 06492

Re: Sprint Site #171; Milford
(111 School House Road)

Dear Steve:

Enclosed please find copy of letter dated February 12, 1997, received from the Milford Zoning Board of Appeals approving our variance for 111 School House Road, Milford, Connecticut. I will record the attached certificate signifying the variance and assume that you will send a copy of this to the landlord for his file.

Should you have any questions, please do not hesitate to call.

Very truly yours,

LEWIS A. HURIWTZ
LAH/dsw
Enc.

cc: Julie Reach

PAUL J. FORD & COMPANY

Date: **November 14, 2018**

Heather Simeone
Crown Castle
3530 Toringdon Way Suite 300
Charlotte, NC 28277

Paul J. Ford and Company
250 East Broad st., Suite 600
Columbus, OH 43215
(614) 221-6679

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Carrier Site Number:	468062
	Carrier Site Name:	MILFORD 2 CT
Crown Castle Designation:	**Crown Castle BU Number:**	876342
	Crown Castle Site Name:	BIC DRIVE (SSUSA)
	Crown Castle JDE Job Number:	534512
	Crown Castle Work Order Number:	1660834
	Crown Castle Order Number:	461231 Rev. 0
Engineering Firm Designation:	**Paul J. Ford and Company Project Number:**	37518-0321.006.7805
Site Data:	**111 School House Road, a/k/a Bic Drive, MILFORD, New Haven County, CT** **Latitude *41° 12' 46.06"*, Longitude *-73° 5' 7.1"*** **140 Foot - Monopole Tower**	

Dear Heather Simeone,

Paul J. Ford and Company is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity**

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph as required by the 2016 Connecticut State Building Code (2015 International Building Code). Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

Udaykiran Yerra
Structural Designer

STATE OF CONNECTICUT
JUSTIN T. KLINE
No. 30301
LICENSED
PROFESSIONAL ENGINEER

NOV 15 2018

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 140 ft Monopole tower designed by SUMMIT.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	125 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
104.0	104.0	3	alcatel lucent	B13 RRH 4X30	8	1 5/8
		3	andrew	LNX-6514DS-VTM w/ Mount Pipe		
		3	commscope	CBC1923T-DS-43		
		6	commscope	SBNHH-1D65B w/ Mount Pipe		
		3	nokia	AIRSCALE RRH 4T4R B5 160W		
		3	nokia	B25 RRH4X30 (UHFA)		
		3	nokia	B66A RRH4X45 (UHIE)		
		2	rfs celwave	DB-T1-6Z-8AB-0Z		
		3	rymsa wireless	MG D3-800TX w/ Mount Pipe		
		1	tower mounts	Miscellaneous [NA 510-1]		
		1	tower mounts	Platform Mount [LP 1201-1]		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
140.0	140.0	3	alcatel lucent	TD-RRH8X20-25	1 1 3	1/2 1 5/8 1 1/4
		9	rfs celwave	ACU-A20-N		
		3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe		
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe		
		1	tower mounts	Platform Mount [LP 1201-1]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
137.0	137.0	3	alcatel lucent	800MHz 2X50W RRH W/FILTER	--	--
		3	alcatel lucent	TME-1900MHz RRH (65 MHz)		
		3	alcatel lucent	TME-800MHZ RRH		
		1	tower mounts	Side Arm Mount [SO 103-3]		
121.0	123.0	3	cci antennas	HPA-65R-BUU-H6 w/ Mount Pipe	2 2 2 12	3/8 3/4 7/16 1 5/8
		3	ericsson	RRUS 11		
		3	ericsson	RRUS 32		
		3	ericsson	RRUS12/RRUS A2		
		3	kaelus	DBC0061F1V51-2		
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		6	powerwave technologies	LGP21401		
		3	quintel technology	QS66512-6 w/ Mount Pipe		
		1	raycap	DC6-48-60-18-8C		
		1	raycap	DC6-48-60-18-8F		
	121.0	1	tower mounts	Miscellaneous [NA 510-1]		
		1	tower mounts	Platform Mount [LP 1201-1]		
115.0	116.0	3	andrew	ETW200VS12UB	2 5 11	1 3/8 1 5/8 1 1/4
		3	ericsson	AIR 32 B2A/B66AA w/ Mount Pipe		
		3	ericsson	RADIO 4449 B12/B71		
		3	remec	S20070A1		
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
	115.0	3	pole mounts	2.375" OD x 9' Mount Pipe		
		1	tower mounts	Miscellaneous [NA 509-3]		
		1	tower mounts	Miscellaneous [NA 510-1]		
		1	tower mounts	Platform Mount [LP 1201-1]		
95.0	95.0	3	rfs celwave	APXV18-206517S-C w/ Mount Pipe	6	1 5/8
		1	tower mounts	Pipe Mount [PM 601-3]		
80.0	82.0	1	kathrein	OG-860/1920/GPS-A	1	1/2
	80.0	1	tower mounts	Side Arm Mount [SO 901-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	FDH, 08-12040E G1, 12/05/2008	1531894	CCISITES
4-POST-MODIFICATION INSPECTION	PJF, 41709-0132, 12/04/2009	2547672	CCISITES
4-POST-MODIFICATION INSPECTION	TEP, 25566, 04/21/2016	6234048	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	PJF, 29299-549, 09/29/1999	1631615	CCISITES
4-TOWER MANUFACTURER DRAWINGS	PJF, 29299-549, 10/29/1999	1630877	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	PJF, 41709-0132, 12/04/2009	2547673	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	PJF, 37515-2876.002.7700 R1, 10/20/2015	6173982	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.4.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

1) Tower and structures were built and maintained in accordance with the manufacturer's specifications.
2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
3) Monopole was modified in conformance with the referenced modification drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J. Ford and Company should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L1	140 - 135	Pole	TP17.015x16x0.25	Pole	7.8%	Pass
L2	135 - 130	Pole	TP18.03x17.015x0.25	Pole	15.1%	Pass
L3	130 - 125	Pole	TP19.045x18.03x0.25	Pole	21.3%	Pass
L4	125 - 120	Pole	TP20.061x19.045x0.25	Pole	30.2%	Pass
L5	120 - 115	Pole	TP21.076x20.061x0.25	Pole	41.9%	Pass
L6	115 - 110	Pole	TP22.091x21.076x0.25	Pole	58.4%	Pass
L7	110 - 105	Pole	TP23.106x22.091x0.25	Pole	71.9%	Pass
L8	105 - 104	Pole	TP23.309x23.106x0.25	Pole	74.4%	Pass
L9	104 - 103.75	Pole + Reinf.	TP23.36x23.309x0.4625	Reinf. 9 Tension Rupture	69.0%	Pass
L10	103.75 - 98.75	Pole + Reinf.	TP24.375x23.36x0.45	Reinf. 9 Tension Rupture	84.2%	Pass
L11	98.75 - 98.5	Pole + Reinf.	TP24.426x24.375x0.45	Reinf. 9 Tension Rupture	84.9%	Pass
L12	98.5 - 98.25	Pole + Reinf.	TP24.476x24.426x0.725	Reinf. 9 Tension Rupture	54.8%	Pass
L13	98.25 - 97	Pole + Reinf.	TP24.73x24.476x0.725	Reinf. 9 Tension Rupture	57.2%	Pass
L14	97 - 96.75	Pole + Reinf.	TP24.781x24.73x0.5125	Reinf. 5 Tension Rupture	68.0%	Pass
L15	96.75 - 91.75	Pole + Reinf.	TP26.456x24.781x0.5	Reinf. 5 Tension Rupture	78.3%	Pass
L16	91.75 - 88	Pole + Reinf.	TP26.058x25.296x0.5625	Reinf. 5 Tension Rupture	78.1%	Pass
L17	88 - 87.75	Pole + Reinf.	TP26.108x26.058x0.7625	Reinf. 5 Tension Rupture	61.1%	Pass
L18	87.75 - 82.75	Pole + Reinf.	TP27.124x26.108x0.7375	Reinf. 5 Tension Rupture	67.4%	Pass
L19	82.75 - 77.75	Pole + Reinf.	TP28.139x27.124x0.725	Reinf. 5 Tension Rupture	73.3%	Pass
L20	77.75 - 72.75	Pole + Reinf.	TP29.154x28.139x0.7125	Reinf. 5 Tension Rupture	78.7%	Pass
L21	72.75 - 68.08	Pole + Reinf.	TP30.102x29.154x0.6875	Reinf. 5 Tension Rupture	83.3%	Pass
L22	68.08 - 67.83	Pole + Reinf.	TP30.153x30.102x0.8125	Reinf. 7 Tension Rupture	71.1%	Pass
L23	67.83 - 62.83	Pole + Reinf.	TP31.168x30.153x0.7875	Reinf. 7 Tension Rupture	75.3%	Pass
L24	62.83 - 57.83	Pole + Reinf.	TP32.184x31.168x0.7625	Reinf. 7 Tension Rupture	79.2%	Pass
L25	57.83 - 52.83	Pole + Reinf.	TP33.199x32.184x0.75	Reinf. 7 Tension Rupture	82.9%	Pass
L26	52.83 - 51.5	Pole + Reinf.	TP34.332x33.199x0.75	Reinf. 7 Tension Rupture	83.8%	Pass
L27	51.5 - 46.5	Pole + Reinf.	TP33.859x32.844x0.8	Reinf. 7 Tension Rupture	82.7%	Pass
L28	46.5 - 41.5	Pole + Reinf.	TP34.874x33.859x0.8	Reinf. 7 Tension Rupture	85.5%	Pass
L29	41.5 - 37.75	Pole + Reinf.	TP35.636x34.874x0.775	Reinf. 7 Tension Rupture	87.5%	Pass
L30	37.75 - 37.5	Pole + Reinf.	TP35.686x35.636x0.85	Reinf. 7 Tension Rupture	81.8%	Pass
L31	37.5 - 32.5	Pole + Reinf.	TP36.702x35.686x0.825	Reinf. 7 Tension Rupture	84.2%	Pass
L32	32.5 - 32.25	Pole + Reinf.	TP36.752x36.702x0.875	Reinf. 2 Tension Rupture	78.0%	Pass
L33	32.25 - 27.25	Pole + Reinf.	TP37.767x36.752x0.8625	Reinf. 6 Tension Rupture	80.1%	Pass
L34	27.25 - 23.5	Pole + Reinf.	TP38.529x37.767x0.85	Reinf. 6 Tension Rupture	81.6%	Pass
L35	23.5 - 23.25	Pole + Reinf.	TP38.58x38.529x0.95	Reinf. 2 Tension Rupture	76.7%	Pass
L36	23.25 - 20.75	Pole + Reinf.	TP39.087x38.58x0.95	Reinf. 2 Tension Rupture	77.6%	Pass
L37	20.75 - 20.5	Pole + Reinf.	TP39.138x39.087x0.9	Reinf. 2 Tension Rupture	78.7%	Pass
L38	20.5 - 15.5	Pole + Reinf.	TP40.153x39.138x0.875	Reinf. 2 Tension Rupture	80.4%	Pass
L39	15.5 - 10.5	Pole + Reinf.	TP41.168x40.153x0.8625	Reinf. 2 Tension Rupture	82.0%	Pass
L40	10.5 - 5.5	Pole + Reinf.	TP42.183x41.168x0.85	Reinf. 2 Tension Rupture	83.5%	Pass
L41	5.5 - 3	Pole + Reinf.	TP42.691x42.183x0.8375	Reinf. 2 Tension Rupture	84.2%	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L42	3 - 2.75	Pole + Reinf.	TP42.742x42.691x0.9	Reinf. 2 Tension Rupture	79.3%	Pass
L43	2.75 - 0	Pole + Reinf.	TP43.3x42.742x0.9	Reinf. 2 Tension Rupture	80.1%	Pass
					Summary	
				Pole	74.4%	Pass
				Reinforcement	87.5%	Pass
				Overall	87.5%	Pass

Table 5 - Tower Component Stresses vs. Capacity

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	84.2	Pass
1	Base Plate	0	70.8	Pass
1	Base Foundation Steel	0	58.4	Pass
1	Base Foundation Soil Interaction	0	58.2	Pass

Structure Rating (max from all components) =	87.5%

Notes:
1) See additional documentation in “Appendix C – Additional Calculations” for calculations supporting the % capacity consumed. All structural rating per TIA-222-H, Section 15.5.

4.1) Recommendations

The monopole and its foundation have sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

Date: **October 29, 2018**

Charles McGuirt
Crown Castle
3530 Toringdon Way, Suite 300
Charlotte, NC28277
704-405-6607

Subject:	**Mount Modification Analysis Report**	
Carrier Designation:	**Verizon**	
	Carrier Site Number:	**468062**
	Carrier Site Name:	**BIC DRIVE (SSUSA)**
Crown Castle Designation:	**Crown Castle BU Number:**	**876342**
	Crown Castle Site Name:	**BIC DRIVE (SSUSA)**
	Crown Castle JDE Job Number:	**534512**
	Crown Castle Order Number:	**461231 Rev 0**
Engineering Firm Designation:	**POD Report Designation:**	**18-29185**
Site Data:	**111 School House Road, Milford, New Haven, CT, 06460**	
	Latitude 41◦12'46.06" Longitude -73◦5'7.10"	
Structure Information:	**Tower Height & Type:**	**140 ft Monopole**
	Mount Elevation:	**104 ft**
	Mount Type:	**14 ft Platform**

Dear Charles McGuirt,

Power of Design Group is pleased to submit this "Mount Modification Analysis Report" to determine the structural integrity of Verizon's antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

14 ft Low Profile Platform (Typical) **Sufficient**

This analysis has been performed in accordance with the 2016 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 125 mph as required for use in the TIA-222-H Standard per Exception #5 of Section 1609.1.1. Exposure Category C with a maximum topographic factor, Kzt, of 1.000 and Risk Category II was/were used in this analysis.

Mount structural analysis prepared by: Uma Toluganti

10/29/18

Respectfully submitted by:

Mark E. Patterson, P.E.
Connecticut PE #: 31284

Commissioned by:
Power of Design Group, LLC
1033 E Turkeyfoot Lake Rd. Suite 206
Akron, OH 44312
(330) 961.7432
mhoudeshell@podgrp.com

TABLE OF CONTENTS

1) INTRODUCTION

This mount is an existing 14 ft Platform. This mount is installed at the 104 ft elevation on the 104 ft Monopole.

2) ANALYSIS CRITERIA

Building Code: 2012 IBC
TIA-222 Revision: TIA-222-H
Risk Category: II
Ultimate Wind Speed: 125 mph
Exposure Category: C
Topographic Factor at Base: 1.000
Topographic Factor at Mount: 1.000
Ice Thickness: 1.00 in
Wind Speed with Ice: 50 mph
Seismic S_s: 0.197
Seismic S_1: 0.063
Live Loading Wind Speed: 30 mph
Man Live Load at Mid/End-Points: 250 lb
Man Live Load at Mount Pipes: 500 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details	Note
104	104	6	Commscope	SBNHH-1D65B	14’ Platform	
		3	Andrew	LNX-6514DS-VTM		
		3	RYMSA	MG D3-800TX		
		3	Alcatel Lucent	B13 RRH 4x30		
		3	Commscope	CBC1923T-DS-43		
		3	Nokia	AIRSCALE RRH 4T4R B5 160W		
		3	Nokia	B25 RRH4x30		
		3	Nokia	B66A RRHx45		
		2	Celwave	DB-T1-6z-8AB-0Z		

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Crown Application	-	Crown Castle App ID: 461231 Dated: 9/27/18	Crown
Level Drawing	-	Crown Castel Sheet #: A1-104 Dated: 2/10/18	Crown
Mount Modification Drawing	-	Power of Design Group LLC Project #: 18-29815 Dated: 10/25/2018	POD

3.1) Analysis Method

RISA3D (version 17.0), a commercially available analysis software package, was used to create a three-dimensional model of the mount and calculate member stresses for various loading cases. Selected output from the analysis is included in the Appendices.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 Tower Mount Analysis (Revision B). In addition, this analysis is in accordance with Verizon's NSTD-445 Antenna Mounting System Classification Standard.

3.2) Assumptions

1) The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and manufacturer's specifications.
2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
4) The weight of the mount was increased 10% in the analysis to account for connections, coax, and jumpers.
5) Member sizes have been assumed from photos of the site and past experience with similar mounting systems. If the sizes assumed in this report differ from the actual member sizes, POD shall be contacted immediately and the results of the analysis shall be considered null and void.
6) Steel grades have been assumed as follows, unless noted otherwise:
    a. Angle, Plate — ASTM A36 (GR 36)
    b. HSS (Rectangular) — ASTM 500 (GR B-46)
    c. Pipe — ASTM A53 (GR 35)
    d. Connection Bolts — ASTM A325

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and POD should be allowed to review any new information to determine its effect on the structural integrity of the mount.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (14 ft Platform)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
	Face	FACE1	104	76.3	Pass
	Inner Face	INNERFACE2	104	34.5	Pass
	Standoff	STANDOFF4	104	43.7	Pass
	Strut	STRUT1	104	17.1	Pass
	Hand rails	RAIL2	104	35.1	Pass
	Mount Pipe	MP BETA2	104	38.1	Pass

Structure Rating (max from all components) =	76.3%

4.1) Recommendations

The mounting system was found to be adequate to support the proposed loading once the modifications outlined in this report have been properly installed.

Table 4 – Verizon Mount Classification

Notes	Classification	% Capacity
1,2,3	M800R-4	98.3

Notes:

1) Classification is based upon analysis design criteria as specified above.
2) Classification is based upon equal distribution of loads across the face.
3) This analysis is certifying the mount for the specified loads in the loading tables and the rating the mount at the specified load classification. Any variation from the loading scenarios/classifications specified shall be verified adequate through a new structural analysis and is beyond the scope of this report.

5) DISCLAIMER OF WARRANTIES

Power of Design has not performed a site visit to the structure to verify the member sizes or antenna/coax loading unless noted otherwise. If the existing conditions are not as represented in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the structure or foundation. This report does not replace a full structure inspection. The structure, foundations, and mounting systems are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by Power of Design in connection with this Structural Analysis are limited to a computer analysis of the structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

Power of Design does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing structure. Power of Design provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed structure. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from Power of Design, but are beyond the scope of this report.

Power of Design makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this structure. Power of Design will not be responsible whatsoever, for or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of Power of Design pursuant to this report will be limited to the total fee received for preparation of this report.

Site Name: MILFORD 2, CT
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissable Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW PCS	1970	1	3132	3132	105	0.1022	1.0	10.22%
VZW Cellular	876	3	341	1024	105	0.0334	0.584	5.72%
VZW 850 LTE	869	1	1639	1639	105	0.0535	0.579333333	9.23%
VZW AWS	2145	1	3616	3616	105	0.1179	1.0	11.79%
VZW 700	746	1	1048	1048	105	0.0342	0.497333333	6.87%

Total Percentage of Maximum Permissible Exposure 43.83%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.

FedEx

December 17,2018

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Jayesh Patel 7871 Belle Point Dr. Greenbelt, MD 20770

Shipper:
Kristian McKay
3530 Toringdon Way
STE 300
CHARLOTTE, NC 28277 US

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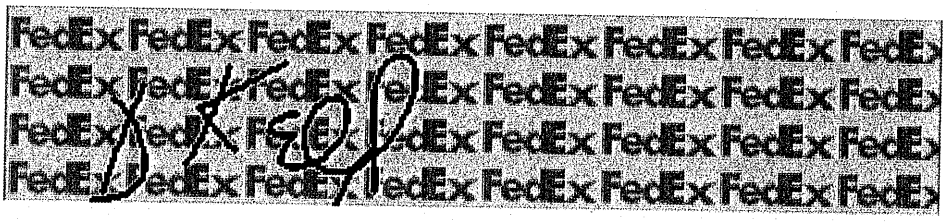

Shipping Information:

Tracking number:	773899383154	**Ship date:**	Dec 6, 2018
		Weight:	0.5 lbs/0.2 kg

Recipient:
Stephen H. Harris
Town of Milford
110 River St.
MILFORD, CT 06460 US

Shipper:
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3530 Toringdon Way
STE 300
CHARLOTTE, NC 28277 US

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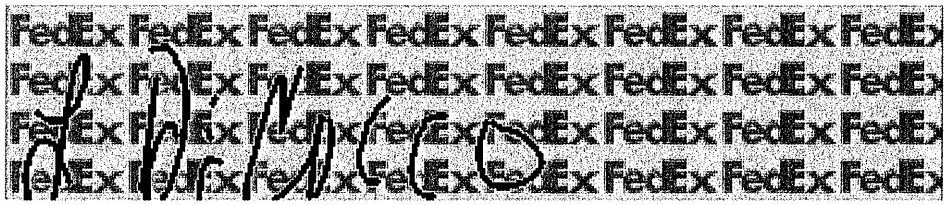

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Recipient:
Benjamin Blake
Town of Milford
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