TS-T-MOBILE-002-030523

LEBOEUF, LAMB, GREENE
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May 23, 2003

Pamela Katz, Chairman
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Request by T-Mobile for an Order to Approve the Shared Use of a Tower Facility at 401 Wakelee Avenue, Ansonia, Connecticut

Dear Chairman Katz and Members of the Council:

Please be advised that LeBoeuf, Lamb, Greene & MacRae, L.L.P. represents Omnipoint Communications, Inc., a subsidiary of T-Mobile USA, Inc. (hereinafter T-Mobile) in the above-referenced matter. T-Mobile is the successor to VoiceStream Wireless Corp. by virtue of a recent corporate name change and nationwide re-branding strategy. Pursuant to Connecticut General Statutes §16-50aa, T-Mobile hereby requests an order from the Connecticut Siting Council ("Council") approving T-Mobile's proposed shared use of an existing tower located at 401 Wakelee Avenue in Ansonia, Connecticut. T-Mobile proposes to install antennas on the existing tower, and the equipment associated with this facility would be located near the base of the tower within an approximately twelve foot extension of the existing compound (see drawing A-1 attached as part of Exhibit B). T-Mobile requests that the Council find that the proposed shared use of the tower satisfies the criteria stated in §16-50aa and issue an order approving the proposed use. The chief elected official of Ansonia has been notified via First Class Mail.

Background

T-Mobile operates "Wideband PCS" licenses for the 2-Ghz PCS frequencies for the greater New York City area, including the entire State of Connecticut. Omnipoint is licensed by the Federal Communications Commission (FCC) to provide PCS wireless telecommunications service in Connecticut, which includes the area to be served by the proposed installation.

The tower at 401 Wakelee Avenue, Ansonia is an existing two hundred foot (200') self-supporting lattice tower. The coordinates for the site are **41°-21'-22" N** and **73°-05'-29" W**. The tower is located approximately four hundred feet (400') east of Route 8, between Wakelee Avenue and the Naugatuck River in Ansonia. The tower is owned by Spectrasite and the underlying landowner is the City of Ansonia. T-Mobile and the owner have agreed to mutually acceptable terms and conditions for the proposed shared use of this tower, and the owner has authorized T-Mobile to act on its behalf to apply for all necessary local, state and federal permits, approvals and authorizations which may be required for the proposed shared use of this facility. The tower is designed and built to hold multiple carrier antennas at multiple elevations above ground level ("AGL"). These elevations are listed on the elevation drawing 1, A-2 attached as part of Exhibit B. Currently, there are telecommunications antennas at the one hundred ninety-six foot (196'-0") centerline AGL, one hundred eighty-seven foot six inch (187'-6") centerline AGL, the one hundred seventy-eight foot (178'-0") centerline AGL, the one hundred sixty-eight foot (168'-0") centerline AGL and the one hundred fifty-eight foot (158'-0") centerline AGL (Nextel, Sprint, Cellco, SNET and AT&T, collectively).

T-Mobile proposes to install an antenna cluster comprised of three (3) sectors, with three (3) antennas per sector for a total of nine (9) antennas. The model number for each antenna is EMS RR65-19-02 DP. The antennas would be mounted on standoff bracket frames at the one hundred forty-eight foot (148'-0") centerline AGL. The antenna mounting plan is shown on drawing 4, S-1 attached as part of Exhibit B. The radio transmission equipment associated with these antennas, three (3) Nortel S8000 BTS cabinets, would be located near the base of the tower on two proposed five foot by ten foot (5'-0" x 10'-0") concrete pads within a leased fifteen foot by fifteen foot (15' x 15') square area. The tower and all of the equipment for all existing and proposed carriers is within a large existing compound surrounded by a gated six foot (6') high chain link fence. (shown on drawing 1, A-1, attached as part of Exhibit B). There are three existing equipment shelters within the compound. The T-Mobile equipment does not require a shelter. The compound would be extended twelve feet eight inches (12'-8") to the south to accommodate the T-Mobile concrete pads. Access to the compound is via an existing access drive off of Wakelee Avenue. Utilities will be run from existing utility sources approved by the owner via underground conduits.

C.G.S. §16-50aa (c) (1) provides, in pertinent part, that upon written request for approval of a proposed shared use, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the council shall issue an order approving such shared use." The shared use of the tower satisfies those criteria as follows:

A. **Technical Feasibility** - The existing tower and compound were designed to accommodate multiple carriers. A structural analysis of the tower with the proposed T-Mobile

installation has been performed and is attached as Exhibit D. The proposed shared use of this tower therefore is technically feasible.

B. **Legal Feasibility** Under C.G.S. § 16-50aa, the Council has been authorized to issue orders approving the proposed shared use of an existing tower facility such as the facility at 401 Wakelee Avenue in Ansonia. This authority complements the Council's prior-existing authority under C.G.S. § 16-50p to issue orders approving the construction of new towers that are subject to the Council's jurisdiction. C.G.S. § 16-50x(a) vests exclusive jurisdiction over these facilities in the Council, which shall "give such consideration to other state laws and municipal regulations as it shall deem appropriate" in ruling on requests for the shared use of existing tower facilities. Under this statutory authority vested in the Council, an order by the Council approving the shared use would permit the Applicant to obtain a building permit for the proposed installations.

C. **Environmental Feasibility** The proposed shared use would have minimal environmental effects, if any, for the following reasons:

1. The proposed installations (i.e., three (3) sectors with three (3) antennas per sector) would have an insignificant incremental visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing site. In particular, the proposed installations would not increase the height of the existing tower, and would only slightly extend the boundaries of the existing compound area. The tower is designed to accommodate multiple carriers

2. The proposed installations would not increase the noise levels at the existing facility by six decibels or more.

3. Operation of antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the American National Standards Institute ("ANSI"). The "worst-case" exposure calculated for operation of this facility (i.e., calculated at the base of the tower, which represents the closest publicly accessible point within the broadcast field of the antennas) will be 0.03512 mW/cm2, which is 3.512% of the Maximum Permissible Emission (MPE). The combined power density calculations from other carriers is 12.31% of the MPE. This accounts for a combined power density of 15.822% of the MPE standard. These calculations are attached as Exhibit E.

4. The proposed installations would not require any water or sanitary facilities, or generate air emissions or discharges to water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is complete (approximately two (2) weeks), the proposed installations would not generate any traffic other than periodic maintenance visits.

The proposed use of this facility would therefore have a minimal environmental effect, if any, and is environmentally feasible.

D. **Economic Feasibility** As previously mentioned, the owner and T-Mobile have entered into a mutual agreement to share the use of the existing tower on terms agreeable to the parties. The proposed tower sharing is therefore economically feasible.

E. **Public Safety Concerns** As stated above, the existing tower is structurally capable of supporting the proposed T-Mobile antennas. The tower stands on a compound accessible from Wakelee Avenue. T-Mobile is not aware of any public safety concerns relative to the proposed sharing of the existing tower. In fact, the provision of new or improved phone service through shared use of the existing tower will enhance the safety and welfare of area residents and the public.

Conclusion

For the reasons discussed above, the proposed shared use of the existing tower facility at Wakelee Avenue in Ansonia, Connecticut satisfies the criteria stated in C.G.S. §16-50aa, and advances the General Assembly's and the Council's goal of preventing the unnecessary proliferation of towers in Connecticut. T-Mobile therefore respectfully requests that the Council issue an order approving the proposed shared use of this tower.

Thank you for your consideration of this matter.

Respectfully submitted,

T-MOBILE USA, INC.

By: _____

Its Counsel
Stephen J. Humes

Attachments

cc: James T. Della Volpe, Mayor, City of Ansonia

Exhibit A

Site Map

401 Wakelee Avenue
Ansonia, Connecticut

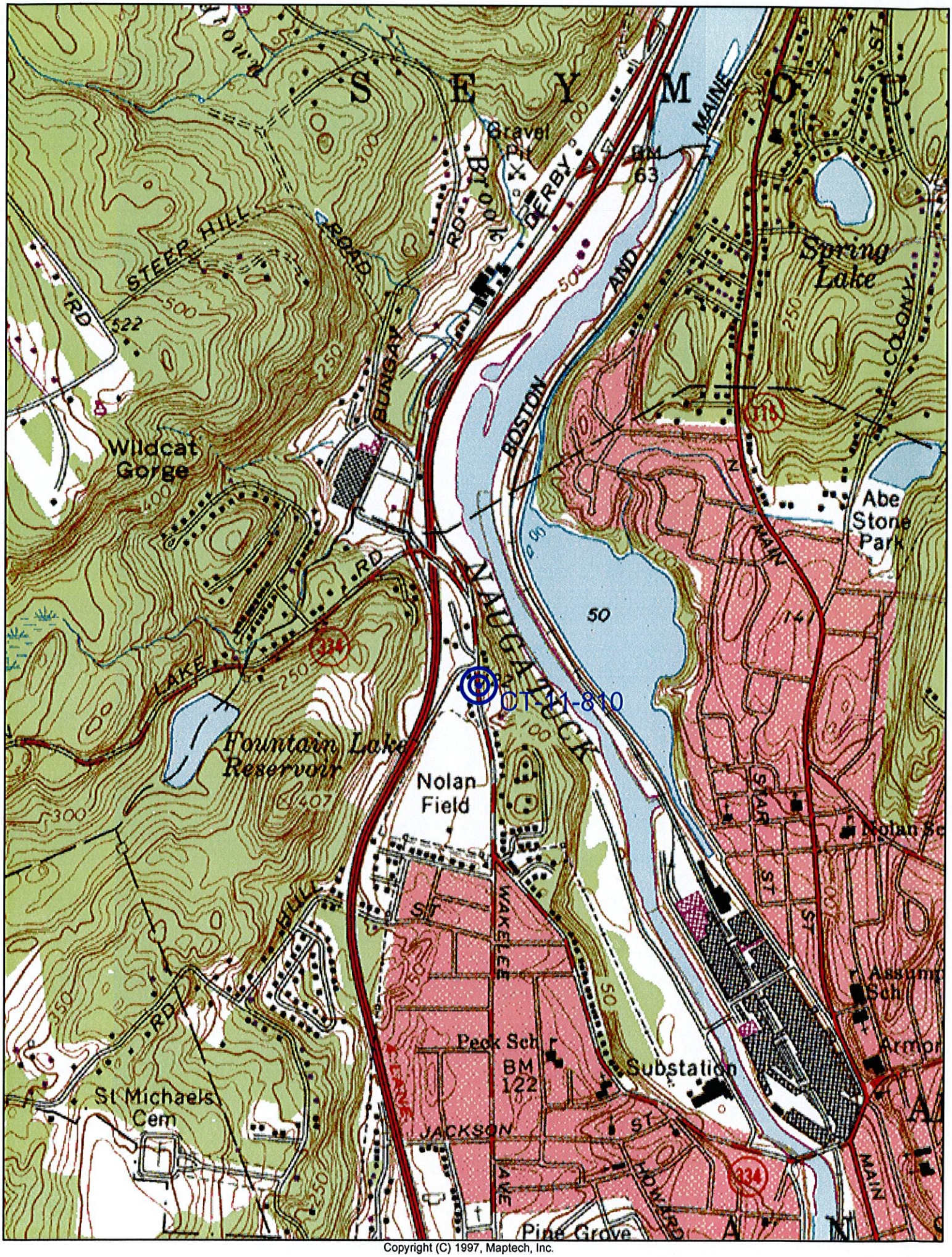


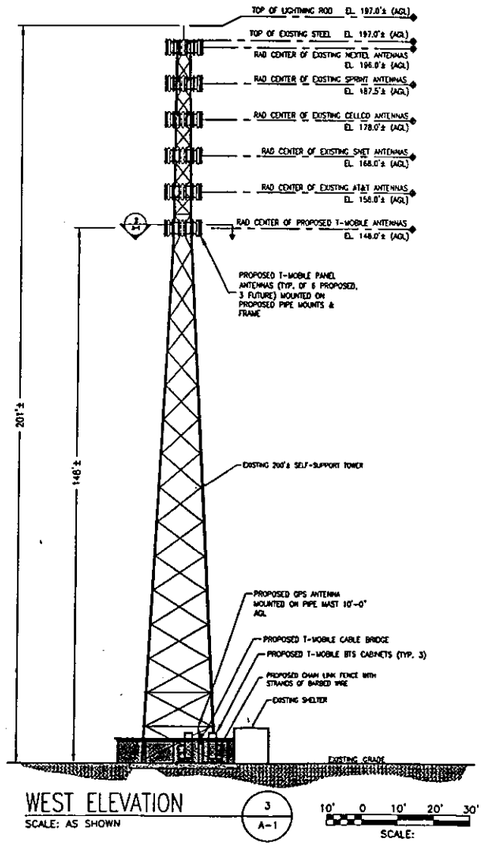
Exhibit B

Design Drawings

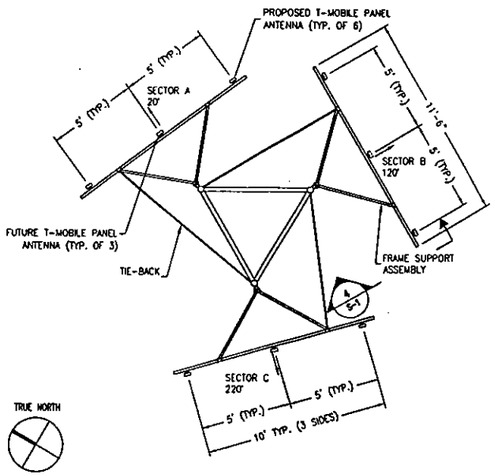
401 Wakelee Avenue
Ansonia, Connecticut

NOTES:

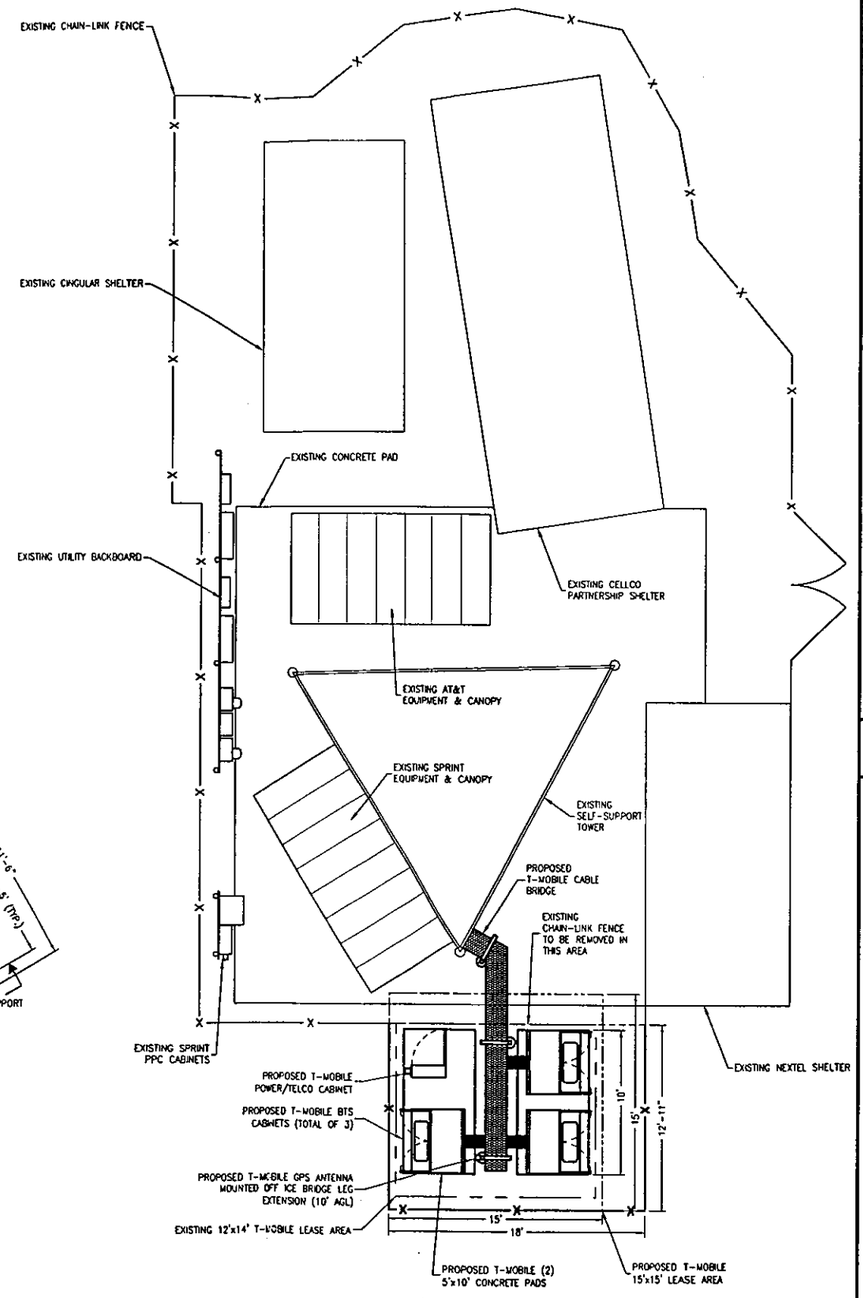
1. ALL DIMENSIONS SHOWN THUS ± ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECTS THE CONTRACTORS WORK. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH OWNER PRIOR TO CONSTRUCTION.
2. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY TRUE NORTH AND INFORM CONSTRUCTION MANAGER OF ANY DISCREPANCIES BEFORE STARTING CONSTRUCTION.
3. THE GENERAL CONTRACTOR AND OR HIS SUB CONSULTANT SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTRY OR LOCAL GOVERNMENT AUTHORITY.
4. ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.
5. COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE PROVIDED BY THE OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. A SCHEDULE OF OWNER SUPPLIED MATERIALS IS ATTACHED TO THE BID DOCUMENTS (SEE ATTACHMENT K). ALL OTHER HARDWARE TO BE PROVIDED BY THE CONTRACTOR. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
6. ANY EQUIPMENT THAT IS TO BE PAINTED SHALL BE PAINTED TO MATCH EXISTING. PAINT SHALL BE SHERWIN WILLIAMS, COROTHANE II. SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND OMNIPOINT GUIDELINES.
7. COORDINATION, LAYOUT, AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. EQUIPMENT WILL BE INDEPENDENTLY POWERED WITH SEPARATE METER.
9. PRIOR TO EXCAVATION NEAR (E)TOWER, CONTRACTOR TO CONTACT AND COORDINATE WITH PROPERTY OWNER.
10. ALL (E)ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.
11. ALL (E)INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF UTILITY COMPANY ENGINEERING.
12. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT, DRIVEWAY OR GRAVEL, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED AND COVERED WITH MULCH.
13. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES DURING CONSTRUCTION.
14. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
15. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. T-MOBILE IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. T-MOBILE RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.



WEST ELEVATION (3 / A-1)
SCALE: AS SHOWN
10' 0 10' 20' 30'
SCALE:



ANTENNA MOUNTING PLAN (2 / A-1)
SCALE: AS SHOWN
2' 0 2' 4' 6'
SCALE:



SITE PLAN/EQUIPMENT PLAN (1 / A-1)
SCALE: AS SHOWN
2.5' 0 2.5' 5' 7.5'
SCALE:

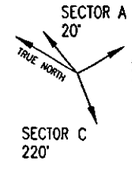
ABBREVIATIONS

ADJ	ADJUSTABLE	SF	SQUARE FOOT
APPROX	APPROXIMATE	SHT	SHEET
C	CONDUIT	SIM	SIMILAR
CONC	CONCRETE	STL	STEEL
CONT	CONTINUOUS	TOC	TOP OF CONCRETE
CJ	CONSTRUCTION JOINT	TOM	TOP OF MASONRY
DIA	DIAMETER	TYP	TYPICAL
DWG	DRAWING	VIF	VERIFY IN FIELD
EGB	EQUIPMENT GROUND BAR	UON	UNLESS OTHERWISE NOTED
EA	EACH	WWF	WELDED WIRE FABRIC
ELEC	ELECTRICAL	W/	WITH
EL	ELEVATION		
EQ	EQUAL	BTS	BASE TRANSMISSION STATION
EQUIP	EQUIPMENT	LNA	LOW NOISE AMPLIFIER
(E)	(E)		
EXT	EXTERIOR	PCS	PERSONAL COMMUNICATIONS SERVICES
FF	FINISHED FLOOR		
FG	FINISHED GRADE		
GA	GAUGE	A-1	ANTENNA MARK NO.
GALV	GALVANIZED		
GC	GENERAL CONTRACTOR	PL	PLATE
LG	LONG		
MAX	MAXIMUM	&	AND
MECH	MECHANICAL	@	AT
MFR	MANUFACTURER		
MGB	MASTER GROUND BAR		
MIN	MINIMUM		
MTL	METAL		
NIC	NOT IN CONTRACT		
NTS	NOT TO SCALE		
OC	ON CENTER		
OPP	OPPOSITE		

SYMBOLS AND MATERIALS

NEW ANTENNA	GROUT OR PLASTER
EXISTING ANTENNAS	(E)BRICK
ASPHALT	(E)MASONRY
NEW ACCESS EASEMENT	CONCRETE
CONCRETE	EARTH
ELECTRIC BOX	GRAVEL
LIGHT POLE	PLYWOOD
FND. MONUMENT	SAND
SPOT ELEVATION	WOOD CONT.
SET POINT	WOOD BLOCKING
REVISION	STEEL
GRID REFERENCE	CENTER LINE
DETAIL REFERENCE (XX1 / SH1)	PROPERTY LINE
	STEPPED FOOTING
ELEVATION (D / SH)	MATCH LINE
	WORK POINT
SECTIONS & DETAILS (D / SH)	GROUND WIRE
	COAXIAL CABLE

ANTENNA ORIENTATION KEY



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5170 Belmont Avenue
Youngstown, Ohio 44505
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Fax: (330) 759-8471
www.dynatektelecom.com

STATE OF CONNECTICUT
DAVID C. BARONE
5/12/03
No. 10032
LICENSED ARCHITECT

APPROVALS

LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A/E _____

PROJECT NO: 4490
DRAWN BY: M.N.T.
CHECKED BY: D.C.B.

SUBMITTALS

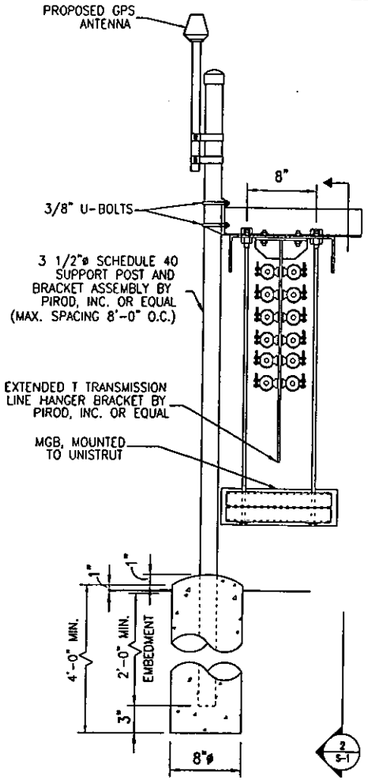
1	5/9/03	CONSTRUCTION REVISION
0	4/29/03	CONSTRUCTION

CT-11-810A
ANSONIA

401 WAKELEE AVENUE
ANSONIA, CT 06401

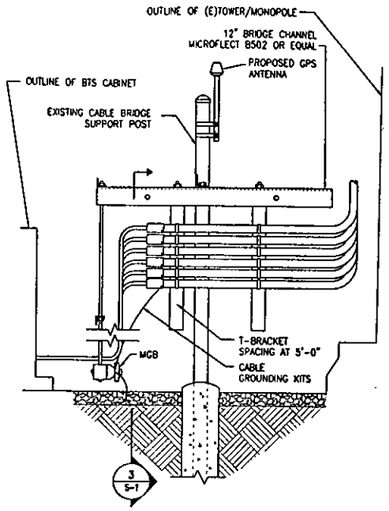
SHEET TITLE
PLANS AND ELEVATIONS

SHEET NUMBER
A-1



SECTION AT CABLE BRIDGE

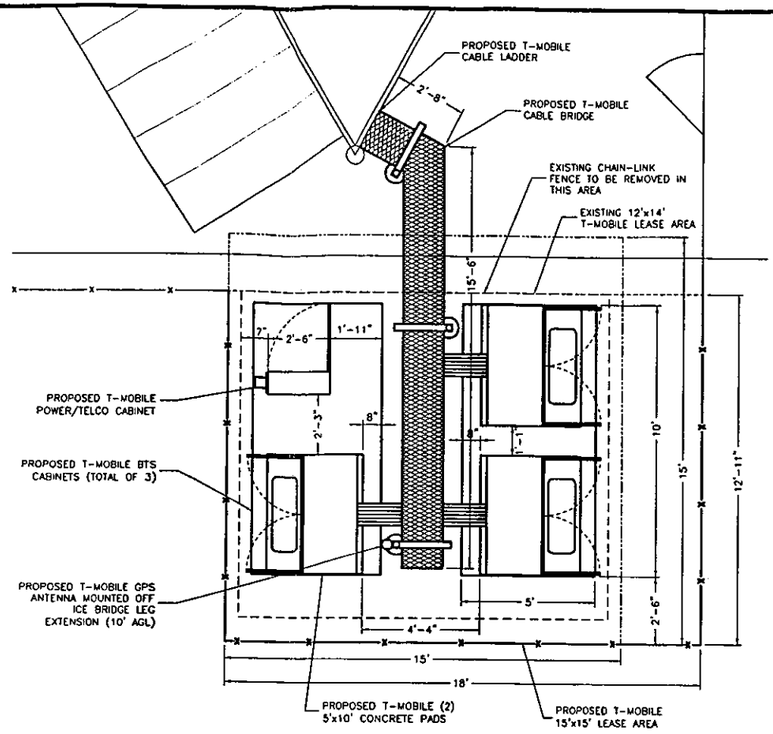
SCALE: 1 1/2"=1'-0" (3 S-1)



NOTE:
REFER TO EQUIPMENT PLAN ON SHEET A-1 FOR DIMENSIONS OF CABLE BRIDGE.

PROFILE AT CABLE BRIDGE

SCALE: 3/4"=1'-0" (2 S-1)



EQUIPMENT PAD LAYOUT

SCALE: 3/8"=1'-0" (1 S-1)

STRUCTURAL NOTES:

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS. ANSI/ASCE7, EIA/TIA-222-F STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.

2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER.

3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

4. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.

5. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE A, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.

6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE)AND CONFORM TO ASTM A325 "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 5/8" DIA UON.

7. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.

8. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.

9. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.

10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND DLI. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION.

11. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.

12. UNISTRUTS SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.

13. EPOXY ANCHOR ASSEMBLY SHALL CONSISIT OF 1/2" DIAMETER STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS. AN INTERNALLY THREADED INSERT, A SCREEEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-20 AND OR HY-150 SYSYTEMS (AS SPECIFIED AN DWG.) OR ENGINEERS APPROVED EQUAL WITH 4-1/4" MIN. EMBEDMENT DEPTH.

14. EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS 1, HILTI KWIK BOLT II OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE THREE AND ONE HALF (3 1/2) INCHES.

15. GRAVEL SUB BASE AND CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL.

16. CONCRETE FOR FENCE AND ICE BRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (4 %-6%) NORMAL WEIGHT CONCRETE.

17. ALL CAST IN PLACE CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND ACI 301.

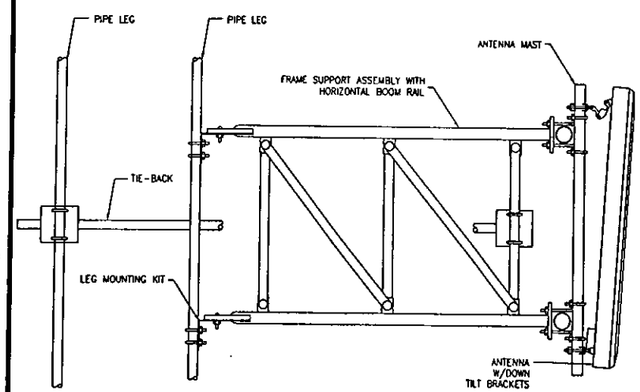
18. THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
- CONCRETE CAST AGAINST EARTH ... 3 INCHES.
- CONCRETE EXPOSED TO EARTH OR WATER
- #6 AND LARGER .....2 INCHES
- #5 AND SMALLER .....1 1/2 INCHES

ALL EXPOSED EDGES SHALL BE PROVIDED WITH A 3/4"x3/4" CHAMFER UNLESS NOTED OTHERWISE.

19. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.

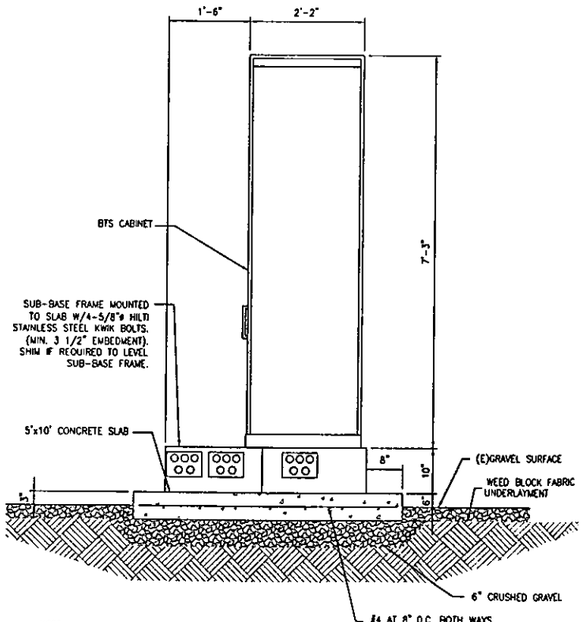
20. WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY.

21. PER FCC MANDATE, ENHANCED EMERGENCY (E911) POSITION LOCATION EQUIPMENT IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. IMPLEMENTATION REQUIRES DEPLOYMENT OF APPROXIMATELY 2 MEASUREMENT FUNCTION RECEIVER (MFR) ANTENNAS AND 1 GLOBAL POSITIONING SYSTEM (GPS) ANTENNA. THIS PLAN DEPICTS A SCHEMATIC DESIGN AND LOCATION OF ANTENNAS AND MAY BE SUBJECT TO CHANGE. T-MOBILE RESERVES THE RIGHT TO CHANGE THE LOCATION AND CONFIGURATION OF THE E911 EQUIPMENT AS REQUIRED.



ANTENNA MOUNTING DETAIL

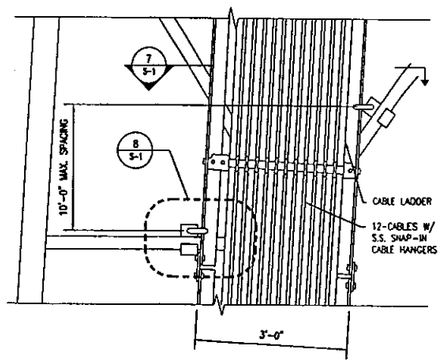
SCALE: 3/4"=1'-0" (4 S-1)



NOTE:
REFER TO EQUIPMENT PLAN ON SHEET A-1 FOR LOCATION OF POWER/TELCO CABINET.

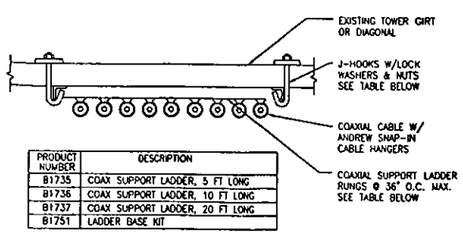
SECTION AT EQUIPMENT SLAB

SCALE: 3/4"=1'-0" (5 S-1)



CABLE LADDER DETAIL

SCALE: 3/4"=1'-0" (6 S-1)

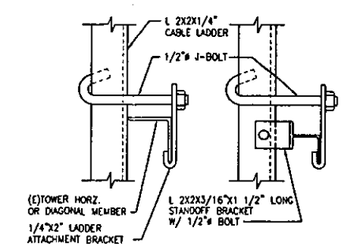


PRODUCT NUMBER	DESCRIPTION
B1735	COAX SUPPORT LADDER, 5 FT LONG
B1736	COAX SUPPORT LADDER, 10 FT LONG
B1737	COAX SUPPORT LADDER, 20 FT LONG
B1751	LADDER BASE KIT

NOTE:
1. LADDER ATTACHES TO TOWER GIRTS OR DIAGONALS WITH INCLUDED J-BOLTS AND BACKING PLATES.
2. LADDERBASE KIT INCLUDES SPLICES FOR ATTACHING THE FIRST LADDER SECTION.

COAXIAL LADDER SUPPORT

SCALE: 1 1/2"=1'-0" (7 S-1)



NOTE:
1. FIELD DRILL 9/16"ø HOLE IN ANGLE AS REQUIRED.

DETAIL

SCALE: 3"=1'-0" (8 S-1)

T-Mobile
100 FILLEY STREET
BLOOMFIELD, CT 06002
OFFICE: (860)-794-4300
FAX: (860)-692-7159

Dynatek
TELECOMMUNICATIONS SERVICES
5170 Belmont Avenue
Youngstown, Ohio 44505
Phone: 800-838-3224
Fax: (330) 759-8471
www.dynatektelecom.com

STATE OF CONNECTICUT
DAVID C. BIGGS
5/12/03
No. 10032
LICENSED ARCHITECT

APPROVALS

LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A/E _____

PROJECT NO: 4490
DRAWN BY: M.N.T.
CHECKED BY: D.C.B.

SUBMITTALS

1	5/9/03	CONSTRUCTION REVISION
0	4/29/03	CONSTRUCTION

CT-11-810A
ANSONIA

401 WAKELEE AVENUE
ANSONIA, CT 06401

SHEET TITLE
STRUCTURAL NOTES, SECTIONS, AND DETAILS

SHEET NUMBER
S-1

Exhibit C

Equipment Specifications

401 Wakelee Avenue
Ansonia, Connecticut

3.7.12 S8000 Outdoor BTS Specifications

Table 107. S8000 Outdoor BTS Cabinet General Specifications

	S8000 Outdoor Cabinet
Height	1.60 m (63")
Width	1.35 m (53")
Depth	0.65 m (25")
Footprint	1.80 m^2
Maximum Weight	480 kg (1058 lbs.)
Empty weight	148 kg (326.2 lbs.)
Maximum Power(240V)	6500 Watts
Voltage	240 V +/- 10%
Normal Power	3238 Watts
Main Circuit Protection	~~70~~ 50 Amps
Max. Heat Dissipation	22100 Btu/Hour
Normal Heat Dissipation	11006 Btu/Hour
Operating Temperature	-40^{0}C to 50^{0}C (-40^{0}F to 122^{0}F)
Maximum Operating Humidity	100%
Max level of acoustic noise	65 dB
Ground Cable	2/0 MCM
Antenna Connectors	N
Cabinet output	40.3 dBm
Receive sensitivity	-108 dBM
Output power at cabinet antenna connector (H2D)	38.0 dBm

4.1.1 Dimensions and Weight

Table 1 – Dimensions of the S12000 BTS

	Populated cabinet		Depopulated cabinet	
	(cm)	(in)	(cm)	(in)
Height	191	75.2	172	67.7
Depth	65	25.6	65	25.6
Width	135	53.2	135	53.2

Table 2 – Weight of the S12000 BTS

	Populated cabinet (full configuration)		Depopulated cabinet	
	(kg)	(lb.)	(kg)	(lb.)
S12000	570	1257	200	441

Note: The pallet weights 19kg (42 lb.) and has a height of 13cm (5.1 in)

Note: The height of S12000 Outdoor with the hood open is 256 cm (100.8 in)

The BTS floor print can be found in section 10.2 Appendix B.

4.1.2 Key Cabled Cabinet Components

A low mass, mechanically strong external cabinet housing containing:

- All mechanical sub-racks and mechanical support systems required for the installation, transport and operation of the GSM wireless equipment to be housed within.
- A forced ventilation, low acoustic Direct Ambient Cooling System (DACS)
- An AC/DC power system
- A fixed DC distribution system to power the enclosed electronic equipment
- A Power Amplifier Interconnection module (PA ICO)
- DRX interconnection modules (DRX ICO) (A&B)
- Combiner interconnection modules (COMICO) (A&B)
- A batteries box

Refer to section 10.1 Appendix A for a general overview of the S12000.

4.1.3 Environmental Requirements

Table 3 – Operational Temperature and Humidity

Normal	Range
Optimized operating temperature	-20°C (-4°F) to 40°C (104°F)
Total operating temperature	-40°C (-40°F) to 50°C (122°F)
Normal Operating humidity	15% to 100% relative humidity (non-condensing)
Absolute humidity	0,26 g/m3 to 36 g/m3

- Storage requirements

The S12000 meets the requirements of reference document R10 class 1.2

- Transport requirements

The S12000 meets the requirements of reference document R11 class 2.2

- Ingress protection

The cabinet shall be weather resistant to prevent ingress of rain, snow, dust and other solid foreign objects to a minimum level of IP55 as specified by reference document R3. The maximum permitted water ingress under test conditions shall be 5ml.

- Noise

LWAd < 63 dB (A) measured in accordance with reference document R8 if $Temp_{ext}$ < 40°C (104°F)

The maximum sound power level emitted from the S12000 Outdoor cabled cabinet, when fully populated and measured in accordance with the requirements of reference document R8, shall not exceed:

- Normal speed operation: 63 dB (A) (when temperature is < 40°C)
- Maximum speed operation: 70 dB (A) (when temperature is >40°C)

Note: The noise may be higher than the one previously indicated due to the real configuration of the site (proximity of walls or any reflecting surfaces). Specific protections against noise can be added to comply with the local recommendations.

- External air flow rate

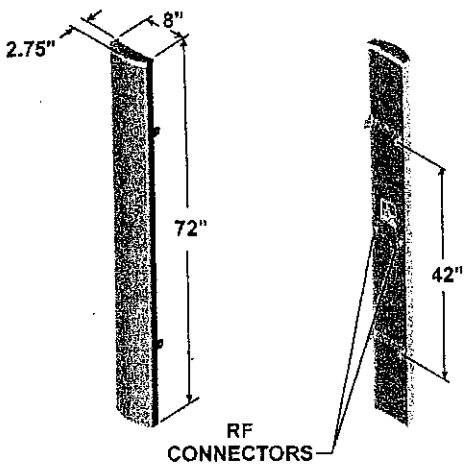
Normal speed operation: 800 m^3 / hour

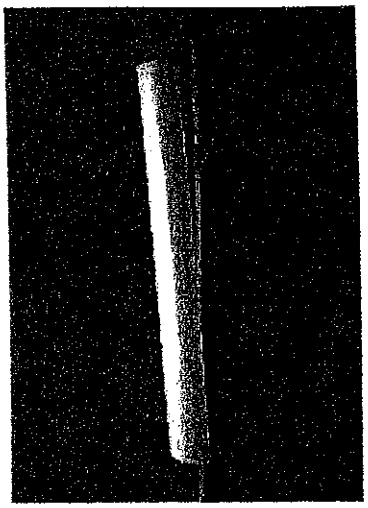
EMS Wireless

OptiRange™

RR65-19-XXDP

1850 MHz - 1990 MHz (P)





65° beamwidth

18.5 dBi gain

±45° DualPol

72 inch

SPECIFICATIONS

Electrical

Azimuth Beamwidth	65°
Elevation Beamwidth	4.5°
Gain	18.5 dBi (16.4 dBd)
Polarization	Slant, ± 45°
Port-to-Port Isolation	≥ 30 dB
Front-to-Back Ratio	≥ 25 dB (≥ 30 dB Typ.)
Electrical Downtilt Options	0°, 2°, 4°, 6°
VSWR	1.35:1 Max
Connectors	2; 7-16 DIN (female)
Power Handling	250 Watts CW
Passive Intermodulation	≤ -147 dBc [2x20W (+43 dBm)]
Lightning Protection	Chassis Ground

Mechanical

Dimensions (L x W x D)	72in x 8in x 2.75in (183 cm x 20.3 cm x 7.0 cm)
Rated Wind Velocity	150 mph (241 km/hr)
Equivalent Flat Plate Area	4ft² (0.37 m²)
Front Wind Load @ 100 mph (161 kph)	115 lbs (512 N)
Side Wind Load @ 100 mph (161 kph)	40 lbs (176 N)
Weight	23 lbs (10.4 kg)

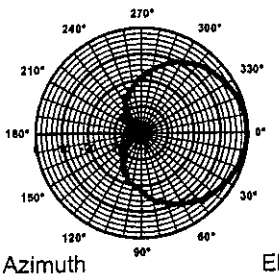
Note: Patent Pending and US Patent number 5, 757, 246.

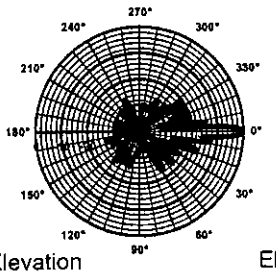
Values and patterns are representative and variations may occur. Specifications may change without notice due to continuous product enhancements. Digitized pattern data is available from the factory or via the web site www.emswireless.com and reflect all updates.

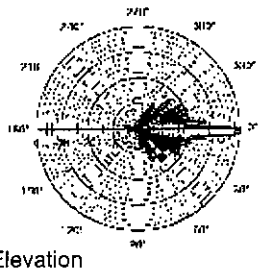
MOUNTING OPTIONS

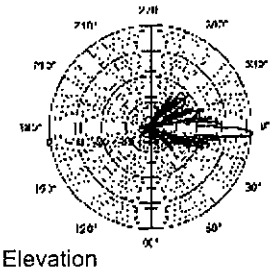
Model Number	Description	Comments
MTG-P00-10	Standard Mount (Supplied with antenna)	Mounts to Wall or 1.5 inch to 5.0 inch O.D. Pole (3.8 cm to 12.7 cm)
MTG-S02-10	Swivel Mount	Mounting kit providing azimuth adjustment.
MTG-DXX-20*	Mechanical Downtilt Kits	0° - 10° or 0° - 15° Mechanical Downtilt
MTG-CXX-10*	Cluster Mount Kits	3 antennas 120° apart or 2 antennas 180° apart
MTG-C02-10	U-Bolt Cluster Mount Kit	3 antennas 120° apart, 4.5" O.D. pole.
MTG-TXX-10*	Steel Band Mount	Pole diameters 7.5" - 45°

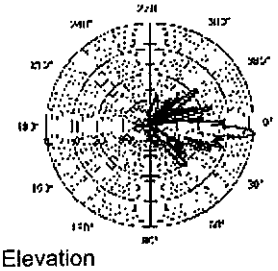
* Model number shown represents a series of products. See mounting options section for specific model number.


Azimuth


Elevation
0° Downtilt


Elevation
2° Downtilt


Elevation
4° Downtilt


Elevation
6° Downtilt

www.emswireless.com
Revised 11/19/01

+1 770.582.0555

Fax +1 770.729.0036

Exhibit D

Structural Analysis

401 Wakelee Avenue
Ansonia, Connecticut

CBC Engineers & Associates

ENGINEERING REPORT

TO: Dynatek Telecommunications Services
5170 Belmont Avenue
Youngstown, OH 44505

DATE: May 9, 2003

CBC NO: 4681-2-0503-05

ATTN: Mr. Mark Thompson

Re: Evaluation of 196' Self Support Tower with Six (6) Proposed T-Mobile Antennas; Site CT-11-810A, Ansonia, New Haven Co., Connecticut; CBC Report No. 4681-2-0503-05

The purpose of this report is to evaluate the above referenced tower for the addition of six (6) – 72" x 12" x 4" antennas with two (2) standoff frames at the 148 foot level. A previous structural evaluation report for this tower prepared by Morrison Hershfield (MHC Project 1996035:SP0-896, dated March 30, 2001) was reviewed in conjunction with this evaluation. The existing tower is a generic 196 ft Rohn Self-Supporting Tower. The existing antennas currently on the tower include 9 at 196 feet, 6 at 187.5 feet, 12 at 178 feet, 12 at 168 feet and 12 at 158 feet. The evaluation of the tower with the proposed antennas was based upon an 85MPH design wind speed per the TIA/EIA-222-F Standard and the New Haven county minimum. The calculations are attached in Appendix A. Our review and evaluation indicate the tower and foundation in its current configuration with the proposed antennas meet the requirements of TIA/EIA-222, revision F; the BOCA National Building Code (including section 3108), and the 1999 Connecticut State Building Code Supplement (including section 1609.1).

If you have any questions, please contact me.

Respectfully submitted,

CBC Engineers & Associates, Ltd.

STATE OF CONNECTICUT * DAVID C. COWHERD * No. 21395 LICENSED PROFESSIONAL ENGINEER

David C. Cowherd, M.S., P.E.
CEO and Chief Engineer
DCC/tw
4-Client
1-File

Cowherd, Banner & Carlson Engineers & Associates, Ltd.
125 Westpark Road Centerville, Ohio 45459
Phone: 937-428-6150 FAX: 937-428-6154 Email: cbceng@erinet.com

APPENDIX A

CALCULATIONS

EVALUATION OF 196' TOWER WITH PROPOSED T-MOBILE ANTENNAS
CT-0006, ANSONIA NAKELEE, CT

PROPOSED ANTENNAS

- 6 ANTENNAS w/ 2 STANDOFF FRAMES @ 576.4 lbs. each
  - TOTAL VERTICAL LOAD = 1300 # (±)
- ANTENNA SURFACE AREA = 6 S.F. (±) (72"x12") – 3 PER SIDE
- ANTENNAS TO BE PLACED AT A HEIGHT OF 148'.

WIND LOADING

- WIND SPEED = 85 MPH

$$q_z = 0.00256\, k_z\, k_{zt}\, k_d\, V^2 I$$

$$= 0.00256\,(1.26)(1.0)(0.95)(85)^2(1.0)$$

$$= 22.1 \text{ psf}$$

$$F = q_z\, G_h\, C_f\, A_f$$

$$= 22.1\,(1.14)(1.2)(6 \times 3)$$

$$= 544.2 \text{ lbs.}$$

$$M = 544.2 \times 148'$$

$$= 80542 '\#$$

FACE WIDTH OF TOWER @ BASE = 23'

FORCE COUPLE EQUIV. TO MOMENT = $\frac{80542}{23} = 3502\# = 3.5^k$

Cowherd, Banner & Carlson Engineers & Associates, Ltd.
125 Westpark Road, Centerville, Ohio 45459 Phone: 937-428-6150 Fax: 937-428-6154

RESULTS

- FROM MARCH 30, 2001 MORRISON HERSHFIELD REPORT (MHC PROJECT 1996035: SPO-896) FOR THIS TOWER SITE WITH THE FIVE(5) EXISTING SETS OF ANTENNAS, THE RESULTANT LOADS WERE:

FOUNDATION LOADS

	ORIGINAL	EXISTING	PROPOSED	PROP/ORIG. RATIO
COMPRESSION (kip)	343	370	374.2	1.09
UPLIFT (kip)	301.1	312.3	315.2	1.05
SHEAR (kip)	36.3	35.8	36.3	1.00

PROPOSED LOADS

$C = 370 + \frac{1.3}{2} + 3.5 = 374.2^K$

$U = 312.3 - \frac{1.3}{2} + 3.5 = 315.2^K$

$S = 35.8 + 0.5442 = 36.3^K$

∴ MAXIMUM INCREASE IN LOAD FOR PROPOSED DESIGN FROM ORIGINAL DESIGN IS 9% (IN COMPRESSION). THIS IS SATISFACTORY.

MEMBER LOADS

LEGS: ACTUAL $= 263.9 + \frac{1.3}{4} + \frac{3.5}{2} = 266.0^K$

CAPACITY $= 263.6$

$SR_{MAX} = \frac{266.0}{263.6} = 1.01 < 1.05$, OK

DIAGONAL: ACTUAL $= 7.4 + \frac{1.3}{8} + \frac{3.5}{4} = 8.4^K$

CAPACITY $= 8.3$

$SR_{MAX} = \frac{8.4}{8.3} = 1.01 < 1.05$, OK

HORIZONTAL: ACTUAL $= 1.2 + \frac{0.5442}{2} = 1.47$

CAPACITY $= 2.6$

$SR_{MAX} = \frac{1.47}{2.6} = 0.57 < 1.05$, OK

∴ TOWER IS ADEQUATE TO HANDLE ADDITIONAL LOADING FROM PROPOSED ANTENNAS.

Cowherd, Banner & Carlson Engineers & Associates, Ltd.
125 Westpark Road, Centerville, Ohio 45459 Phone: 937-428-6150 Fax: 937-428-6154

Exhibit E

Power Density Calculations

401 Wakelee Avenue
Ansonia, Connecticut

T-Mobile USA Inc.
100 Filley St, Bloomfield, CT 06002-1853
Phone: (860) 692-7100
Fax: (860) 692-7159

Technical Memo

To: Karina Hansen
From: Jeetendra Ghare - Radio Frequency Engineer
cc: Jason Overbey
Subject: Power Density Report for CT11810A
Date: May 6, 2003

1. Introduction:

This report is the result of an Electromagnetic Field Intensities (EMF - Power Densities) study for the T-Mobile PCS antenna installation on a Existing Lattice Tower at 401 Wakelee Avenue, Ansonia, CT. This study incorporates the most conservative consideration for determining the practical combined worst case power density levels that would be theoretically encountered from locations surrounding the transmitting location.

2. Discussion:

The following assumptions were used in the calculations:

1) The emissions from T-Mobile transmitters are in the 1935-1945 MHz frequency band.
2) The antenna array consists of three sectors, with 3 antennas per sector.
3) The model number for each antenna is EMS RR65-19-02DP.
4) The antenna center line height is 148 ft.
5) The maximum transmit power from any sector is 3227.62 Watts Effective Radiated Power (EiRP) assuming 8 channels per sector.
6) All the antennas are simultaneously transmitting and receiving, 24 hours a day.
7) Power levels emitting from the antennas are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
8) The average ground level of the studied area does not change significantly with respect to the transmitting location

Equations given in "FCC OET Bulletin 65, Edition 97-01" were then used with the above information to perform the calculations.

3. Conclusion:

Based on the above worst case assumptions, the power density calculation from the T-Mobile PCS antenna installation on a Existing Lattice Tower at 401 Wakelee Avenue, Ansonia, CT, is 0.03512 mW/cm^2. This value represents 3.512% of the Maximum Permissible Emission (MPE) standard of 1 milliwatt per square centimeter (mW/cm^2) set forth in the FCC/ANSI/IEEE C95.1-1991. Furthermore, the proposed antenna location for T-Mobile will not interfere with existing public safety communications, AM or FM radio broadcasts, TV, Police Communications, HAM Radio communications or any other signals in the area.

The combined Power Density from other carriers is 12.31%. The combined Power Density for the site is 15.822% of the M.P.E. standard.

New England Market

Connecticut

Worst Case Power Density

Site:	**CT11810A**
Site Address:	**401 Wakelee Avenue**
Town:	**Ansonia**
Tower Height:	**196 ft.**
Tower Style:	**Existing Lattice Tower**
Base Station TX output	11 W
Number of channels	8
Antenna Model	EMS RR65-19-02DP
Cable Size	1 5/8 in.
Cable Length	160 ft.
Antenna Height	148.0 ft.
Ground Reflection	1.6
Frequency	1935.0 MHz
Jumper & Connector loss	1.00 dB
Antenna Gain	18.5 dBi
Cable Loss per foot	0.0116 dB
Total Cable Loss	1.8560 dB
Total Attenuation	2.8560 dB
Total EIRP per Channel	56.06 dBm
(In Watts)	403.45 W
Total EIRP per Sector	65.09 dBm
(In Watts)	3227.62 W
nsg	15.6440
Power Density (S) =	**0.035118 mW/cm^2**
Voicestream Worst Case % MPE =	**3.5118%**

Equation Used :

$$S = \frac{(1000)(grf)^2(Power)*10^{(nsg/10)}}{4\pi(R)^2}$$

Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997

Co-Location Total

Carrier	% of Standard
Verizon	3.8000 %
Cingular	4.2700 %
Sprint PCS	1.4200 %
AT&T Wireless	1.3000 %
Nextel	1.5200 %
Total Excluding T-Mobile	**12.3100 %**
T-Mobile	3.5118
Total % MPE for Site	**15.8218%**

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@po.state.ct.us
Web Site: www.state.ct.us/csc/index.htm

May 27, 2003

Honorable James T. DellaVolpe
Mayor
City of Ansonia
City Hall
253 Main Street
Ansonia, CT 06401-1866

RE: **TS-T-MOBILE-002-030523** - Omnipoint Communications, Inc. request for an order to approve tower sharing at a telecommunications facility located at 401 Wakelee Avenue, Ansonia, Connecticut.

Dear Mr. DellaVolpe:

The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for June 3, 2003, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/laf

Enclosure: Notice of Tower Sharing

c: Peter Crabtree, Zoning Enforcement Officer, City of Ansonia

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@po.state.ct.us
Web Site: www.state.ct.us/csc/index.htm

June 4, 2003

Stephen J. Humes
LeBoeuf, Lamb, Greene & MacRae
Goodwin Square
225 Asylum Street
Hartford, CT 06103

RE: **TS-T-MOBILE-002-030523** - Omnipoint Communications, Inc. request for an order to approve tower sharing at a telecommunications facility located at 401 Wakelee Avenue, Ansonia, Connecticut.

Dear Attorney Humes:

At a public meeting held June 3, 2003, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated May 23, 2003.

Thank you for your attention and cooperation.

Very truly yours,

Pamela B. Katz

Pamela B. Katz, P.E.
Chairman

PBK/laf

c: Honorable James T. DellaVolpe, Mayor, City of Ansonia
Peter Crabtree, Zoning Enforcement Officer, City of Ansonia
Eric Rabon, Spectrasite Communications
Thomas F. Flynn III, Nextel Communications
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels, LLP
Sandy M. Carter, Verizon Wireless
Michele G. Briggs, Southwestern Bell Mobile Systems
Christopher B. Fisher, Esq., Cuddy & Feder LLP