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TS-T-MOBILE-043-060621

30 Cold Spring Road, Rocky Hill, CT 06067
Karina.Fournier@T-mobile.com
860-796-3988

June 21, 2006

BY HAND

Pamela B. Katz, Chairman and
Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RECEIVED
JUN 21 2006
CONNECTICUT
SITING COUNCIL

RE: **Tower Sharing Request by T-Mobile**
100 Sunset Ridge Drive East Hartford, CT
Latitude: 41 46 18 / Longitude: 72 35 26

Dear Ms. Katz and Members of the Siting Council:

Pursuant to Connecticut General Statutes (C.G.S.) § 16-50aa, Omnipoint Communications, Inc. a.k.a. T-Mobile (formerly Voicestream Wireless Corp.) hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed ("Town of East Hartford SST"), in East Hartford, CT owned by the Town of East Hartford. T-Mobile and the Town of East Hartford have agreed to the replacement and shared use of the Town of East Hartford SST Tower, as detailed below.

Town of East Hartford SST

The Town of East Hartford SST Tower facility consists of a one hundred forty (140') foot lattice ("Tower") owned and operated by the Town of East Hartford. The tower will be replaced with another one hundred forty (140') foot lattice tower that will be designed to hold multiple carriers. The Town of East Hartford has antennas on the existing tower that will be relocated onto the new tower. T-Mobile proposes to locate antennas on the new tower at a centerline mounting height of one hundred (120') feet. The equipment will be located within a compound at the base of the tower. The existing lattice tower will be removed after construction of new tower is complete.

Town of East Hartford SST

As shown on the enclosed plans prepared by Clough Harbour & Associates including a site plan and tower elevation of the May 19, 2006, annexed hereto as Exhibit 1, T-Mobile proposes a shared use of the Facility by placing antennas on the tower and equipment needed to provide personal communications services ("PCS") within the existing site plan. T-Mobile will install nine (9) antennas at the one hundred twenty (120) foot level of the Tower. Three (3) associated unmanned equipment cabinets will be located at the base of the tower.

Connecticut General Statutes § 16-50aa provides that, upon written request for shared use approval, an order approving such use shall be issued, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns." (C.G.S. § 16-50aa(c)(1).) Further, upon approval of such shared use, it is exclusive and no local zoning or land use approvals are required C.G.S. §16-50x. Shared use of the Town of East Hartford SST Tower satisfies the approval criteria set forth in C.G.S. § 16-50aa as follows:

- A. Technical Feasibility The Tower and compound were designed to accommodate multiple carriers. Tower design drawings are attached as Exhibit 2. The tower design drawings show that, the tower can safely accommodate the proposed T-Mobile antennas. The proposed shared use of this Tower is technically feasible. Further there is sufficient room at the base of the facility, thus the site plan will not have to be altered.
- B. Legal Feasibility Pursuant to C.G.S. § 16-50aa, the Council has been authorized to issue an order approving shared use of the existing Town of East Hartford SST. (C.G.S. § 16-50aa (C)(1)). Under the authority vested in the Council by C.G.S. § 16-50aa, an order by the Council approving the shared use of a tower would permit the Applicant to obtain a building permit for the proposed installation.
- C. Environmental Feasibility The proposed shared use would have a minimal environmental effect, for the following reasons:

- 1.) The proposed installation would have a de minimis visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing facility,
 - 2.) The proposed installation by T-Mobile would not increase the height of the tower nor expand the site plan at the Town of East Hartford SST and will be of minimal impact to the facility;
 - 3.) The proposed installation would not increase the noise levels at the existing facility boundaries by six decibels or more;
 - 4.) Operation of T-Mobile's antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. The "worst case" exposure calculated for the operation of this facility for T-Mobile would be approximately 7.1% of the standard. See Radio Frequency Memo dated June 20, 2006, annexed hereto as Exhibit 3.
 - 5.) The proposed shared use of the Town of East Hartford SST Tower will not require any water or sanitary facilities, or generate any air emissions or discharges to water bodies. Further, the installation will not generate any traffic other than for periodic maintenance visits.
- D. Economic Feasibility The Applicant and the tower owner have agreed to share use of the Town of East Hartford SST Tower on terms agreeable to both parties. The proposed tower sharing is therefore economically feasible.
- E. Public Safety As stated above and evidenced in the Radio Frequency Field Survey annexed hereto as Exhibit 3, the operation of T-Mobile's antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. Further, the addition of T-Mobile's telecommunications service in the East Hartford area through shared use of the Town of East Hartford SST Tower is expected to enhance the safety and welfare of local residents and travelers through the area resulting in an improvement to public safety in this area.

Page 4

Conclusion

TWN OF East Hartford SST Tower satisfies the criteria set forth in C.G.S. § 16-50aa, and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of tower in the State of Connecticut. T-Mobile therefore requests the Siting Council issue an order approving the proposed shared use of the Town of East Hartford SST Tower.

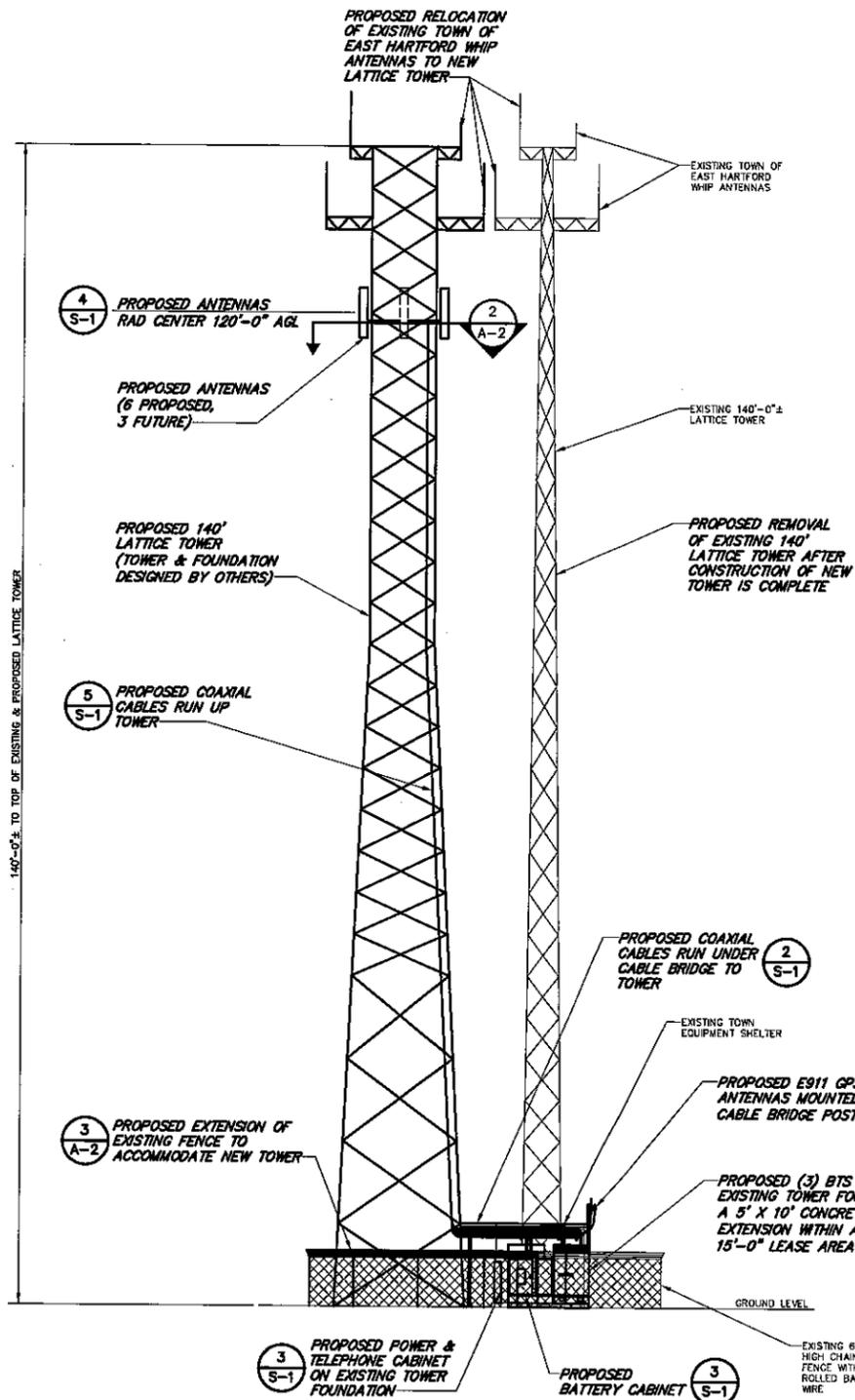
Respectfully submitted,

A handwritten signature in black ink, appearing to read 'K. Fournier' followed by a flourish.

Karina Fournier
Zoning Dept.
T-Mobile
30 Cold Spring Road
Rocky Hill, CT 06067
(860) 796-3988

cc: Mayor, Melody A. Currey

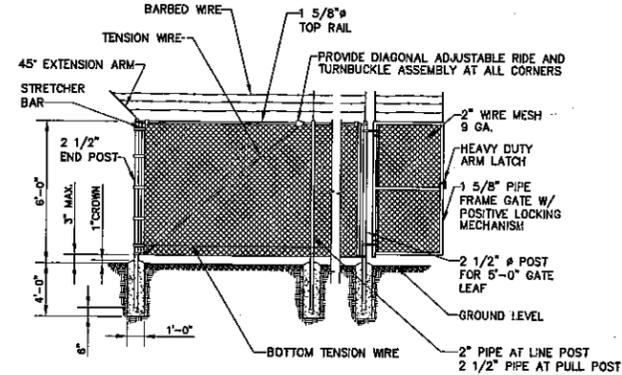
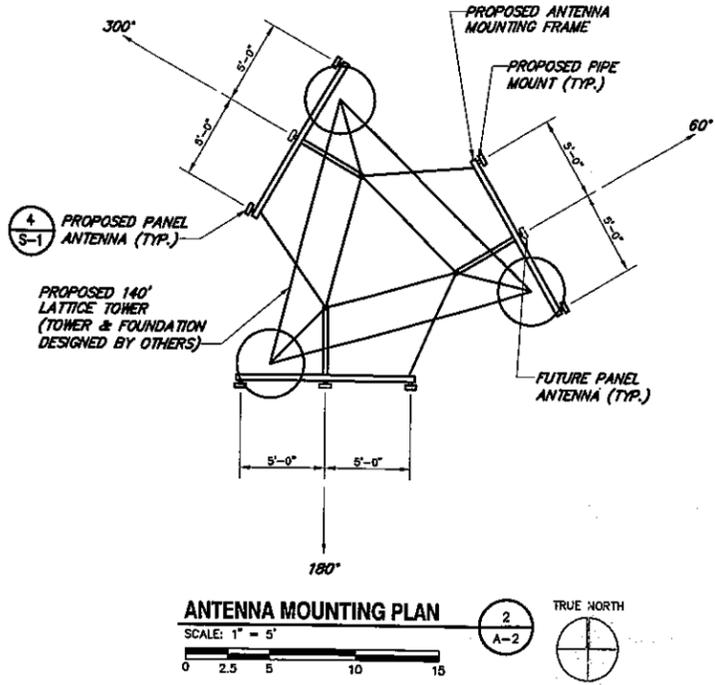
Exhibit 1



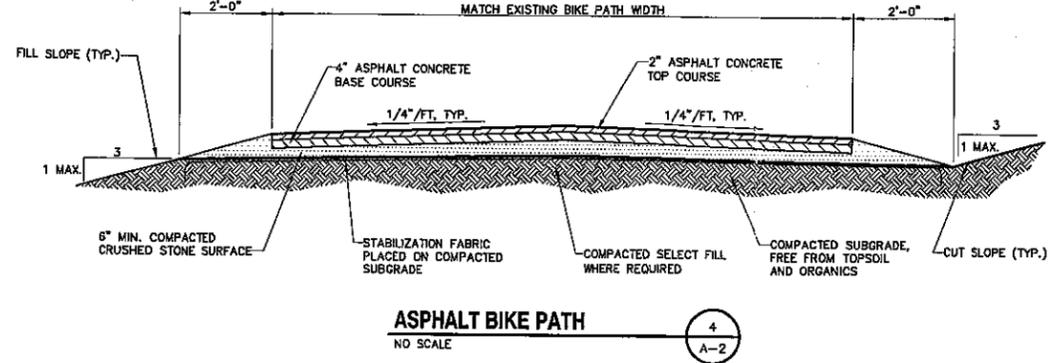
SPECIAL LANDLORD NOTE:
 LESSEE/LICENSEE "FUTURE" PANEL ANTENNAS ARE DEPICTED FOR THE PURPOSES OF DETERMINING TOWER/MONPOLE STRUCTURAL CAPACITY, OBTAINING ZONING APPROVALS AND BUILDING PERMITS. SUBSEQUENT ENDORSEMENT OR ACCEPTANCE OF THIS DRAWING BY THE TOWER OWNER IS NOT TO BE CONSTRUED AS PERMISSION OR APPROVAL TO INSTALL "FUTURE" ANTENNAS THAT EXCEED "PROPOSED" OR ACTUAL EQUIPMENT LISTED IN THE LESSEE/LICENSEE LEASE AGREEMENT.

NOTE:
 EXISTING ANTENNA SUPPORT STRUCTURE IS PAINTED WITH FAA OBSTRUCTION MARKING. NEW TOWER, ANTENNAS, MOUNTING HARDWARE, AND EXPOSED VERTICAL CABLE RUNS NO LONGER REQUIRE FAA OBSTRUCTION PAINTING.

SOUTH ELEVATION
 SCALE: 1" = 10'
 1 A-2

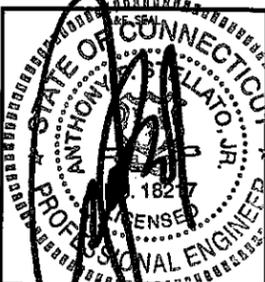


- FENCE NOTES:**
- INSTALL FENCING PER ASTM F-567, SWING GATE PER ASTM F-900.
 - ALL END POSTS, LINE POSTS, PULL POSTS, POSTS FOR GATE LEAF, PIPES FOR GATE FRAME AND TOP RAILS SHALL BE SCHEDULE 40 PIPE PER ASTM F-1083.
 - FABRIC SHALL BE 12 GA. CORE WIRE SIZE 2" MESH CONFORMING TO ASTM A-392.
 - TENSION WIRE SHALL BE 7 GA. GALV. STEEL.
 - TIW SHALL BE 11 GA. GALV. STEEL (MIN.) AT POSTS AND RAILS. A SINGLE WRAP FABRIC TIE AT TENSION WIRE BY HOG RINGS SPACED MAX. OF 24" INTERVALS.
 - BARBED WIRE SHALL BE DOUBLE STRAND 12 1/2" O.D. TWISTED WIRE TO MATCH W/FABRIC 14 GA., 4 PT. BARBS SPACES AT APPROXIMATELY 5" O.C.
 - COMPLY WITH LOCAL ORDINANCES OF BARBED WIRE PERMIT REQUIREMENTS, IF REQUIRED.
 - STEEL FENCE SYSTEM SHALL INCLUDE THE FENCE POSTS, FABRIC, GATE SYSTEM AND ALL NECESSARY ERECTION ACCESSORIES, FITTINGS AND FASTENINGS. ALL FENCE SYSTEM COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. GATES SHALL BE SWING GATES WITH 5'-0" LEAF. REFER TO TYPICAL FENCE DETAIL FOR ADDITIONAL INFORMATION. INSTALL FENCE AFTER CONCRETE HAS ATTAINED 75% OF 28 DAY DESIGN STRENGTH.



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 235 Silas Deane Highway, Suite 212 - Rocky Hill, CT 06067-2358
 www.cha.com



APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 10585-1043

DRAWN BY: PAL

CHECKED BY: FM

SUBMITTALS

NO.	DATE	DESCRIPTION
2	05/19/08	CONSTRUCTION REVISED 1
1	08/08/05	CONSTRUCTION FINAL
0	03/01/04	CONSTRUCTION

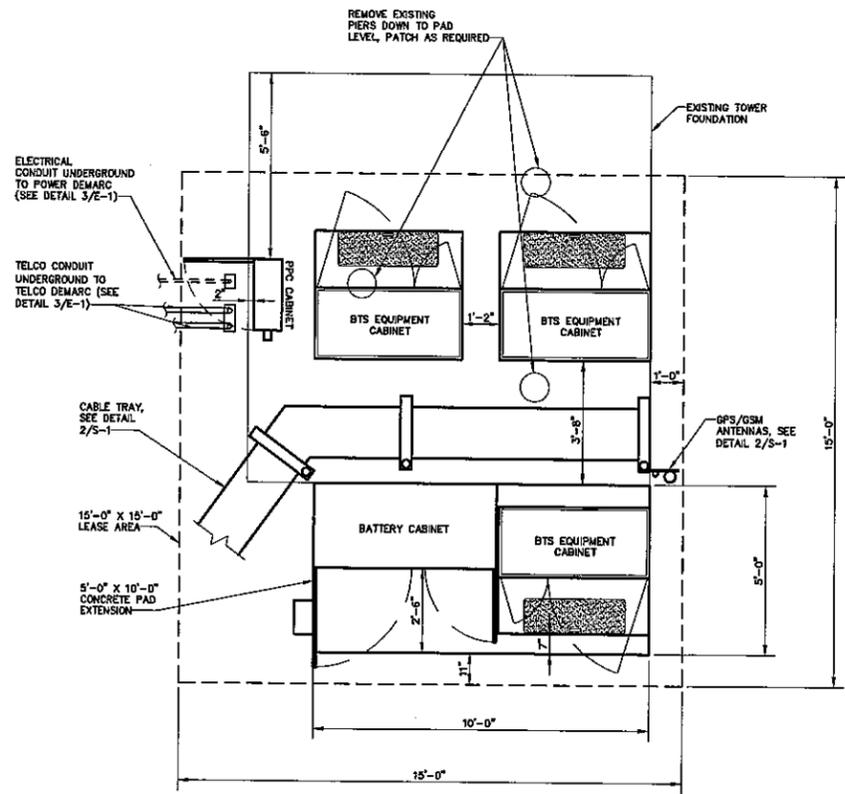
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CT-11-737C
 TOWN OF EAST HARTFORD SST
 100 SUNSET RIDGE DRIVE
 EAST HARTFORD, CT 06108

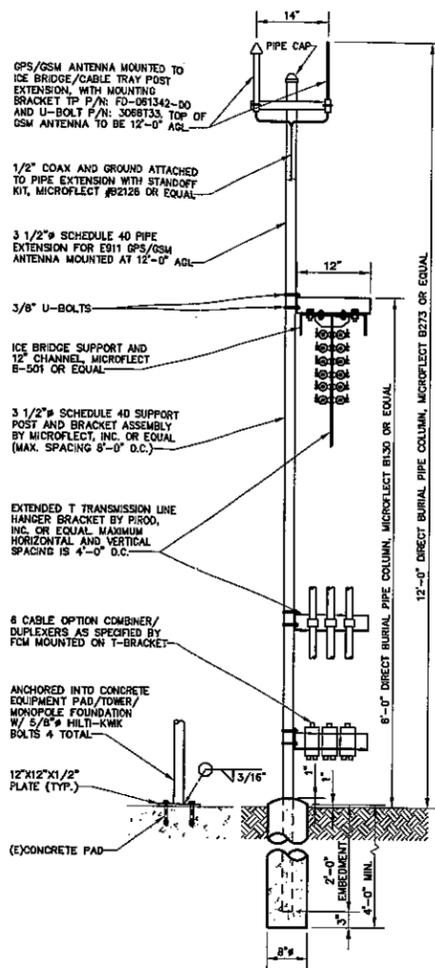
SHEET TITLE
 SITE ELEVATION, ANTENNA PLAN & DETAILS

SHEET NUMBER
 A-2

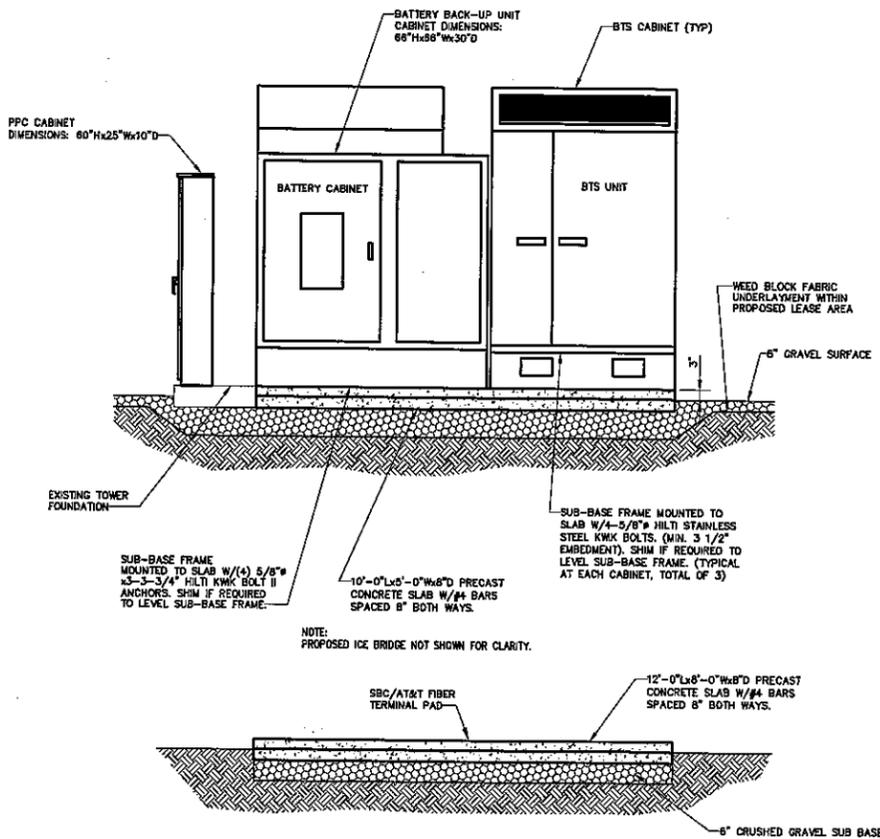
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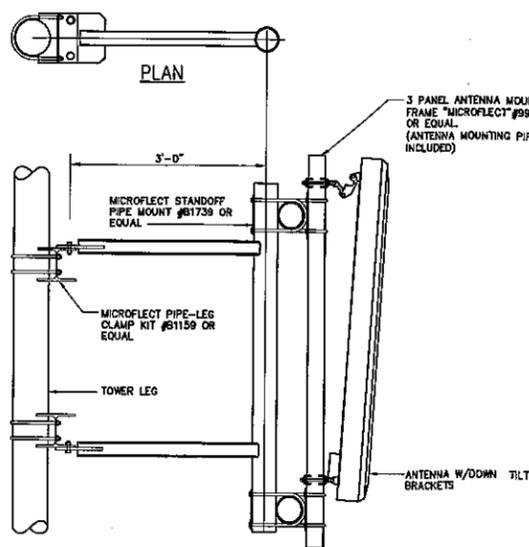
EQUIPMENT SLAB LAYOUT
NO SCALE



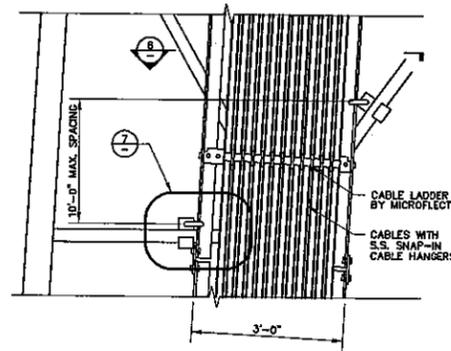
PROFILE AT CABLE BRIDGE
NO SCALE



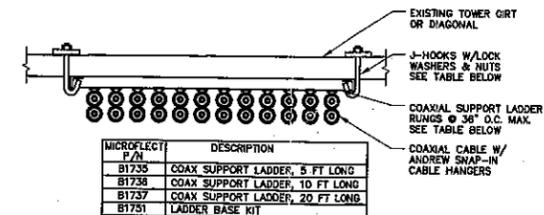
EQUIPMENT SLAB LAYOUT
NO SCALE



ANTENNA MOUNTING DETAIL
NO SCALE



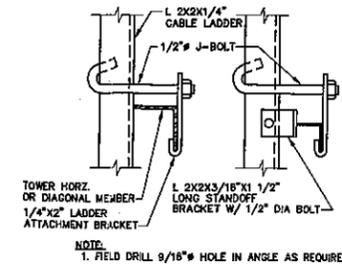
CABLE LADDER DETAIL
NO SCALE



MICROFLECT P/N	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. LADDER BASE KIT INCLUDES SPLICES FOR ATTACHING THE FIRST LADDER SECTION.

CABLE LADDER SUPPORT
NO SCALE



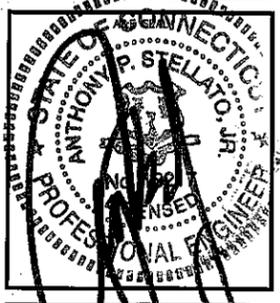
CABLE LADDER ATTACHMENT
NO SCALE

STRUCTURAL NOTES:

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, ANSI/ASSEF, BA/DA-222-F STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.
- 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.
- 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".
- STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE NOTED.
- 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.
- 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 UNLESS OTHERWISE NOTED.
- 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.
- 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.
- 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, 20% BY DRY WEIGHT GALVANIZING GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- 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 AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AWS "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION.
- 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.
- UNISTRUTS SHALL BE FORMED STEEL 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.
- EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF 1/2" DIAMETER STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND AN EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-20 AND OR HY-150 SYSTEMS (AS SPECIFIED ON DWG.) OR ENGINEERS APPROVED EQUAL WITH 4-1/4" MIN. EMBEDMENT DEPTH, UNLESS NOTED OTHERWISE.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, 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.
- GRAVEL SUB BASE AND CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL.
- CONCRETE FOR FENCE AND ICE BRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (4%-%) NORMAL WEIGHT CONCRETE.
- ALL CAST IN PLACE CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND ACI 301.
- 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 OTHERWISE NOTED.
- 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.

OMNIPPOINT COMMUNICATIONS, INC.
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APPROVALS
LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A/E _____

PROJECT NO: 10585-1043

DRAWN BY: PAL

CHECKED BY: FM

SUBMITTALS			
NO.	DATE	DESCRIPTION	REVISION
2	05/19/06	CONSTRUCTION	REVISED 1
1	08/08/05	CONSTRUCTION	FINAL
0	03/01/04	CONSTRUCTION	

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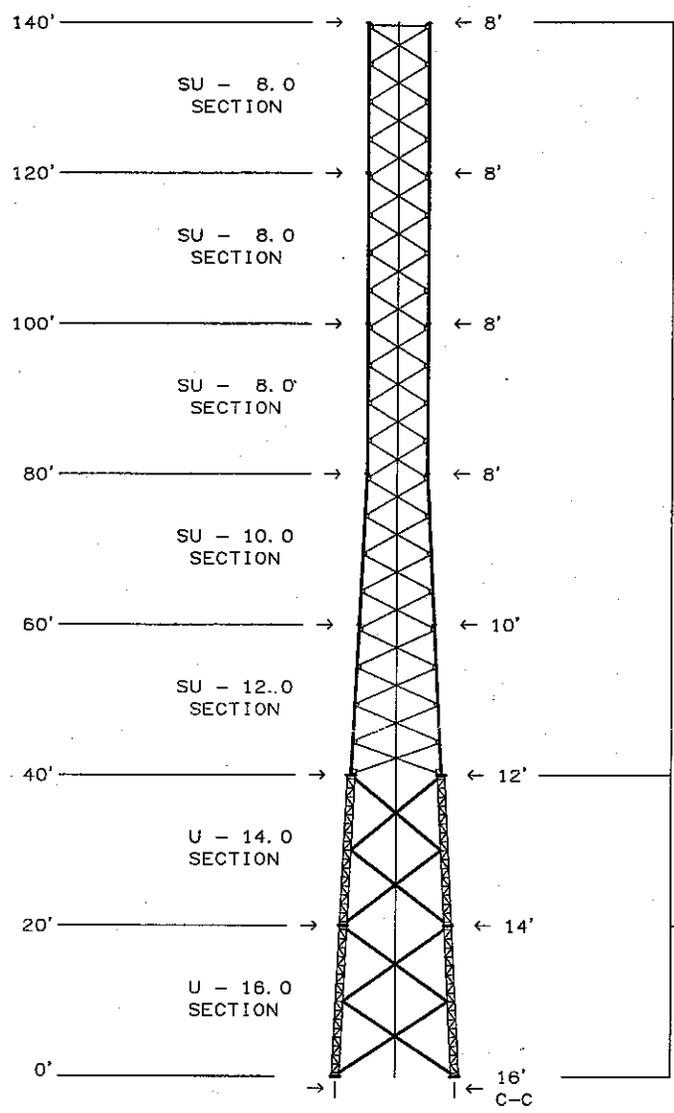
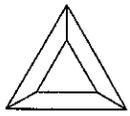
CT-11-737C
TOWN OF EAST HARTFORD SST
100 SUNSET RIDGE DRIVE
EAST HARTFORD, CT 06108

SHEET TITLE
STRUCTURAL NOTES & DETAILS

SHEET NUMBER
S-1

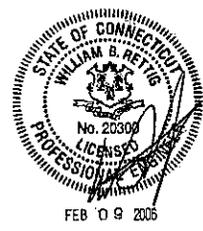
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Exhibit 2



SU 4 PANEL SECTIONS
SOLID ROUND LEGS
SINGLE ANGLE DIAGONAL
SEE PAGES 2 THROUGH 4

12" BREAKDOWN
LEG SECTIONS
SEE PAGES 4 AND 5



William B Rettig CT Professional Engineer #20300

T-MOBILE
HARTFORD CT11737, CT
SU-16.0 X 140'

A FOUNDATION PER SOIL REPORT		TMW 02/09/2006	CONNECTICUT C. O. A. PEC. 797		
REV	DESCRIPTION OF REVISIONS	INI DATE	APPROVED/ENG.	TMW 2/9/2006	
VALMONT STRUCTURES IS A DIVISION OF VALMONT INDUSTRIES, INC. ENGINEERING PROVIDED BY PIROD, INC., WHOLLY OWNED BY VALMONT INDUSTRIES, INC.			APPROVED/FOUND.	N/A	1-877-467-4763 Plymouth, IN 1-888-880-9191 Salem, OR
From: F1008516.DFT - 01/31/2006 15:55			COPYRIGHT 2006		DRAWING NO.
Printed from 197611_010A.DWG - 01/31/2006 15:56 @ 02/09/2006 09:05			DRAWN BY	TMW	197611
			ENG. FILE NO.	A-121847-	PAGE
			ARCHIVE	F-1008516	1 OF 11

SU 4 PANEL SINGLE ANGLE SECTIONS - SOLID ROUND LEG DATA - 40' - 140' ELEVATION												
SECTION			LEG SIZE	Ⓐ			SECTION WEIGHT*	Ⓑ				# STEP LEGS
#	MODEL	LENGTH		LEG PART #				LEG CONNECTION @ BOTTOM+				
							DIAM	LENGTH	#	BUSHING		
7	SU- 8.0	20'	2- 1/4 "	153116	153116	153116	1585#	5/8"	3-3/4"	6		1
6	SU- 8.0	20'	2- 1/4 "	153116	153116	153116	1685#	5/8"	4"	6	153501	1
5	SU- 8.0	20'	2- 3/4 "	153154	153154	153154	2572#	3/4"	4"	6	153503	1
4	SU-10.0	20'	3 "	153119	153119	153119	2930#	7/8"	4"	6	167312	1
3	SU-12.0	20'	3- 1/4 "	153193	153193	153193	3431#	1 "	4-1/2"	6	153507	1

* THE WEIGHTS LISTED ARE THEORETICAL. THE ACTUAL WEIGHTS WILL VARY.
 ALL WEIGHTS SHOULD BE CONFIRMED IN THE FIELD PRIOR TO ERECTION.
 + QUANTITY IS PER LEG. USE 1 FLATWASHER UNDER EACH LOCKNUT FOR LEG CONNECT.
 USE 1 FLATWASHER UNDER BOLT HEAD WHERE BUSHINGS ARE REQUIRED.

SU 4 PANEL SINGLE ANGLE SECTIONS - DIAGONAL DATA - 40' - 140' ELEVATION

SECTION		PANEL		Ⓕ	DIAGONAL ANGLE		Ⓖ		Ⓖ	
#	MODEL	#	TYPE		DIAG PART #	FACE	THICK	END BOLT * DIAM	END BOLT * LENGTH	CENTER BOLT * DIAM
7	SU- 8.0	4	X	153351	1-3/4"	1/8"	5/8"	2"	1/2"	3"
		3	X							
		2	X							
		1	X							
6	SU- 8.0	4	X	153353	1-3/4"	1/4"	5/8"	2"	1/2"	3"
		3	X							
		2	X							
		1	X							
5	SU- 8.0	4	X	153359	2-1/2"	5/16"	5/8"	2"	1/2"	3"
		3	X	153359						
		2	X	153359						
		1	X	153581						
4	SU-10.0	4	X	153641	2-1/2"	5/16"	5/8"	2"	1/2"	3"
		3	X	153651						
		2	X	153661						
		1	X	153671						
3	SU-12.0	4	X	153681	2-1/2"	5/16"	5/8"	2"	1/2"	3"
		3	X	153691						
		2	X	153701						
		1	X	153731						

* USE 1 FLATWASHER UNDER LOCKNUT AND 1 UNDER BOLT HEAD FOR ALL DIAGONAL CONNECTIONS.



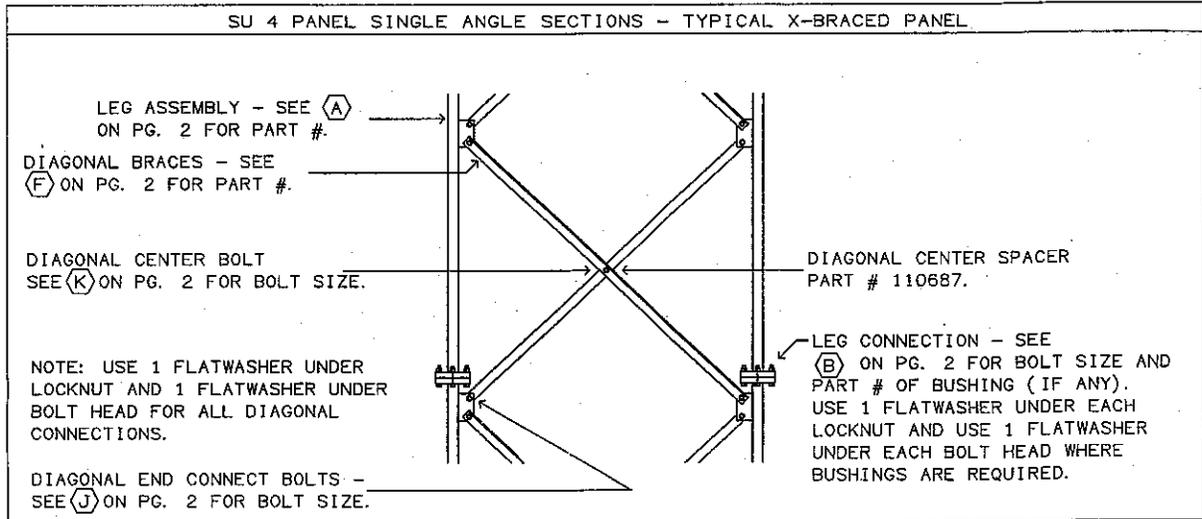
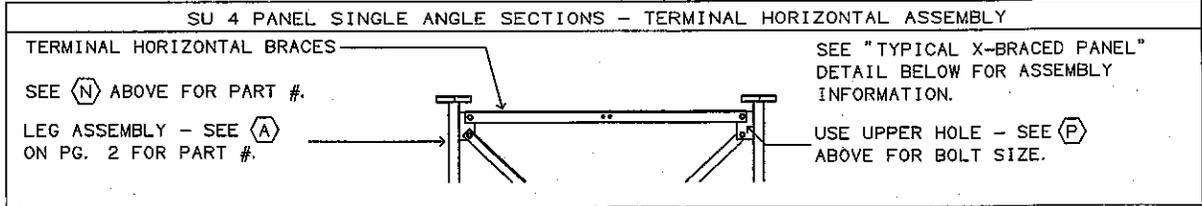
FEB 09 2006

William B Rettig CT Professional Engineer #20300

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SU 4 PANEL SINGLE ANGLE SECTIONS - HORIZONTAL DATA										
#	MODEL	#	LOC	HORIZONTAL		HORIZ PART #	HORIZ ANGLE		CONNECT BOLT *	
				HT	STYLE		FACE	THICK	DIAM	LENGTH
7	SU- 8.0	4	TERML	140'	SINGLE	155103	3"	3/8"	5/8"	2-1/2"

* USE 1 FLATWASHER UNDER LOCKNUT AND 1 FLATWASHER UNDER BOLT HEAD FOR ALL HORIZONTAL CONNECTIONS.



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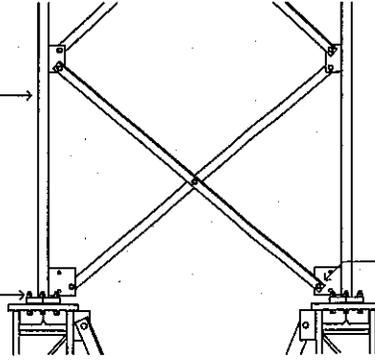
SU 4 PANEL SINGLE ANGLE SECTIONS - TRANSITION TO 12" SECTIONS

SU LEG ASSEMBLY - SEE (A) ON PG. 2 FOR PART #.

SEE "TYPICAL X-BRACED PANEL" DETAIL ON PAGE 3 FOR ASSEMBLY INFORMATION.

LEG CONNECTION - SEE (B) ON PG. 2 FOR BOLT SIZE AND PART # OF BUSHING. USE 1 FLATWASHER UNDER EACH LOCKNUT AND USE 1 FLATWASHER UNDER EACH BOLT HEAD.

USE OFFSET HOLE FOR LOWER END OF DIAGONAL BRACES ON BOTTOM PANEL ONLY.



BREAKDOWN SECTION DATA (12" LEG) 0' - 20' ELEVATION

SEC #	SECTION LENGTH	LEG SIZE	LEG PART#	TOP DIAG PART#	BOT DIAG PART#	DIAGONAL ANGLE		SECTION WEIGHT	LEG CONNECT+		DIAG CONNECT	
						FACE	THICK		DIAM	LENGTH	DIAM	LENGTH
U-14.0	20'	1- 3/4"	195564	113409	113410	3"	5/16"	3421#	1 "	4-1/4"	1-1/4"	2-3/4"
U-16.0	20'	2 "	195559	113411	113412	3"	5/16"	4215#			1-1/4"	2-3/4"

* THE WEIGHTS LISTED ARE THEORETICAL. THE ACTUAL WEIGHTS WILL VARY. ALL WEIGHTS SHOULD BE CONFIRMED IN THE FIELD PRIOR TO ERECTION.
 + USE 1 FLATWASHER UNDER EACH LOCKNUT, FOR LEG CONNECTION ONLY. ALSO USE 1 FLATWASHER UNDER EACH BOLT HEAD WHERE BUSHINGS ARE REQUIRED.



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T-MOBILE
 HARTFORD CT11737, CT
 SU-16.0 X 140'

CONNECTICUT C. O. A. PEC. 797

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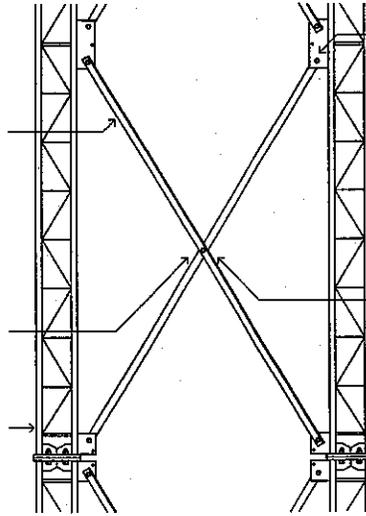
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TYPICAL BREAKDOWN SECTION ASSEMBLY (12" LEG) 0' - 20' ELEVATION

DIAGONAL BRACES - SEE TABLE ON PAGE 4 FOR PART #.

DIAGONAL CENTER CONNECTION IS 3/4" X 3" BOLT.

LEG ASSEMBLY - SEE TABLE ON PAGE 4 FOR PART #.



DIAGONAL CONNECTION BOLT - SEE SECTION TABLE ON PAGE 4 FOR SIZE.

USE SPACER PART # 104291 BETWEEN DIAGONAL ANGLES.

LEG CONNECTION - SEE TABLE ON PAGE 4 FOR BOLT SIZE. USE 1 FLATWASHER UNDER EACH LOCKNUT FOR LEG CONNECTION. ALSO USE 1 FLATWASHER UNDER EACH BOLT HEAD WHERE BUSHINGS ARE REQUIRED.



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T-MOBILE
HARTFORD CT11737, CT
SU-16.0 X 140'

CONNECTICUT C. O. A. REC. 797

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GENERAL NOTES

1. TOWER DESIGN CONFORMS TO STANDARD EIA/TIA-222-F FOR 80 MPH FASTEST-MILE BASIC WIND SPEED WITH .5" RADIAL ICE WITH LOAD DUE TO WIND REDUCED BY 25% WHEN CONSIDERED SIMULTANEOUSLY WITH ICE. TOWER DESIGN CONFORMS TO STANDARD EIA/TIA-222-F FOR 80 MPH FASTEST-MILE BASIC WIND SPEED WITH NO ICE. TOWER MEETS THE REQUIREMENTS OF THE 2003 INTERNATIONAL BUILDING CODE UTILIZING AN 100 MPH 3-SEC GUST BASIC WIND SPEED WITH AN IMPORTANCE FACTOR OF 1.00 AND EXPOSURE C CRITERIA AND IN ACCORDANCE WITH STANDARD EIA/TIA-222-F.
 2. NO TWIST AND SWAY LIMITATIONS SPECIFIED OR USED FOR THIS TOWER.
 3. MATERIAL: (A) SOLID RODS TO ASTM A572 GRADE 50.
(B) ANGLES TO ASTM A36.
(C) PIPE TO ASTM A500 GRADE B.
(D) STEEL PLATES TO ASTM A36.
(E) CONNECTION BOLTS TO ASTM A325 OR ASTM A449 (Fu=120 KSI AND Fy=92 KSI) AND ANCHOR BOLTS TO ASTM A687 (Fu=150 KSI AND Fy=105 KSI).
 4. BASE REACTIONS PER EIA/TIA-222-F FOR 80 MPH BASIC WIND SPEED WITH 0.50" RADIAL ICE:
TOTAL WEIGHT = 59.1 KIPS. MAXIMUM COMPRESSION = 288.0 KIPS PER LEG.
MOMENT = 3717.5 KIP-FT. MAXIMUM UPLIFT = 248.6 KIPS PER LEG.
MAXIMUM SHEAR = 49.2 KIPS TOTAL.
 5. BASE REACTIONS PER EIA/TIA-222-F FOR 80 MPH BASIC WIND SPEED WITH NO ICE.
TOTAL WEIGHT = 38.0 KIPS. MAXIMUM COMPRESSION = 232.6 KIPS PER LEG.
MOMENT = 3047.5 KIP-FT. MAXIMUM UPLIFT = 207.3 KIPS PER LEG.
MAXIMUM SHEAR = 38.1 KIPS TOTAL.
 6. FINISH: ALL BOLTS ARE GALVANIZED IN ACCORDANCE WITH ASTM A153 (HOT DIPPED) OR ASTM B695 CLASS 50 (MECHANICAL). ALL OTHER STRUCTURAL MATERIALS ARE GALVANIZED IN ACCORDANCE WITH ASTM123.
 7. ANTENNAS: 140'-(1) 20' WHIP ANTENNA WITH 1-5/8" LINE
140'-(9) 1' X 6' PANEL ANTENNAS ON (3) 12' T-FRAMES WITH (36) 1-5/8" LINES
130'-(1) 20' WHIP ANTENNA WITH 1-5/8" LINE
130'-(9) 1' X 6' PANEL ANTENNAS ON (3) 12' T-FRAMES WITH (36) 1-5/8" LINES
120'-(9) 1' X 6' PANEL ANTENNAS ON (3) 12' T-FRAMES WITH (36) 1-5/8" LINES
110'-(9) 1' X 6' PANEL ANTENNAS ON (3) 12' T-FRAMES WITH (36) 1-5/8" LINES
- NOTE: (A) ELEVATIONS ARE TO THE BOTTOM OF THE ANTENNAS, EXCEPT FOR MICROWAVE DISHES, WHICH ARE TO THE CENTERLINE.
(B) ALL TRANSMISSION LINES MUST BE PLACED ON PIROD SUPPLIED LINE BRACKETS PART # 127247 MOUNTED INSIDE THE TOWER WITH LINES PLACED IN A BACK-TO-BACK CONFIGURATION FOR WIND SHELTERING.
8. REMOVE FOUNDATION TEMPLATE PRIOR TO ERECTING TOWER. INSTALL BASE SECTION WITH MINIMUM OF 2" CLEARANCE ABOVE CONCRETE. SEE BASE SECTION PLACEMENT ON PAGE 9. PACK NON-SHRINK STRUCTURAL GROUT UNDER BASE SECTION AFTER LEVELING TOWER.
 9. MIN. WELDS 5/16" UNLESS OTHERWISE SPECIFIED. ALL WELDING TO CONFORM TO AWS D1.1
 10. ALL BOLTS AND NUTS MUST BE IN PLACE BEFORE THE ADJOINING SECTIONS ARE INSTALLED.
 11. ALL STRUCTURAL BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION AS DEFINED BY AISC SPECIFICATION UNLESS OTHERWISE NOTED. A MORE QUANTITATIVE ALTERNATIVE APPROACH TO ACHIEVING A SNUG TIGHT CONDITION IS TO TIGHTEN USING THE TORQUE VALUES FROM DRAWING 123107-A.
 12. EIA GROUNDING FOR TOWER.



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FOUNDATION NOTES

1. SOIL AS PER REPORT EBI, DATED: 10/12/05 (FILE: 61052382)
2. CONCRETE TO BE 3000 PSI @28 DAYS. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 (2002) BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR NOT PERMITTED.
3. A COLD JOINT IS PERMISSIBLE UPON CONSULTATION WITH PIROD. ALL COLD JOINTS SHALL BE COATED WITH BONDING AGENTS PRIOR TO SECOND POUR.
4. ALL FILL SHOULD BE PLACED IN LOOSE LEVEL LIFTS OF NO MORE THAN 8" THICK. FILL MATERIALS SHOULD BE CLEAN AND FREE OF ORGANIC AND FROZEN MATERIALS OR ANY OTHER DELETERIOUS MATERIALS. COMPACT FILL TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557.
5. BENDING, STRAIGHTENING OR REALIGNING (HOT OR COLD) OF THE ANCHOR BOLTS BY ANY METHOD IS PROHIBITED.
6. CROWN TOP OF FOUNDATION FOR PROPER DRAINAGE.
7. FOUNDATION IS TO BEAR ON SANDY SOIL AT AN APPROXIMATE DEPTH OF 6.0' BELOW GRADE. THE BEARING SURFACE IS TO BE FREE OF ANY LOOSE MATERIAL AND WATER & SUBSEQUENTLY INSPECTED BY A QUALIFIED ON-SITE GEOTECHNICAL ENGINEER.
8. THE TOWER FOUNDATION MUST BEAR BELOW ALL EXISTING UNCONTROLLED FILL AT THIS SITE. A QUALIFIED ON-SITE GEOTECHNICAL ENGINEER MUST INSPECT THE BEARING SURFACE TO ENSURE THAT THE CAPACITY MEETS OR EXCEEDS THAT DISCLOSED IN THE REFERENCED SOIL REPORT.
9. ANY SOFT OR UNSUITABLE SUBGRADE SOILS DETECTED DURING THE EXCAVATION SHOULD BE REMOVED AND REPLACED WITH CRUSHED STONE.
10. THE ON-SITE GEOTECHNICAL ENGINEER SHALL CONFIRM THAT THE INSITU SOIL STRENGTHS MEET OR EXCEED THOSE PARAMETERS GIVEN IN THE SOIL REPORT.

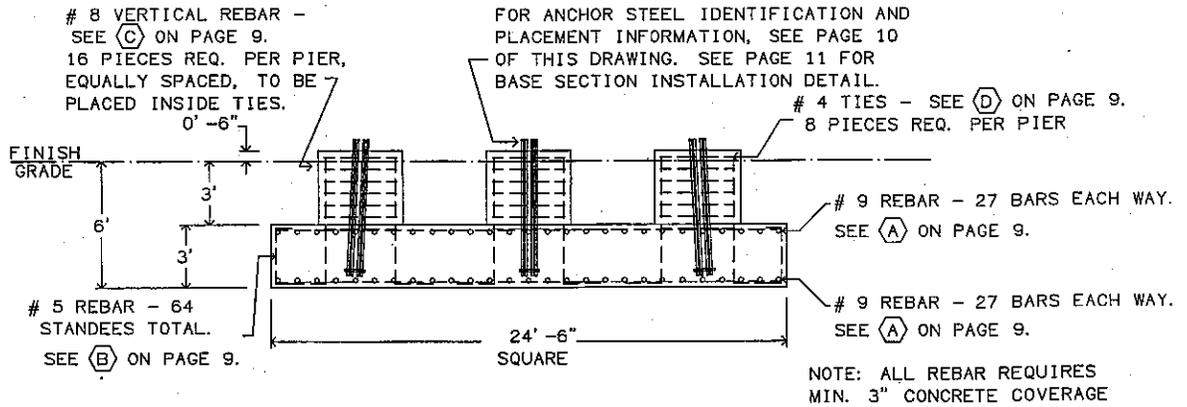
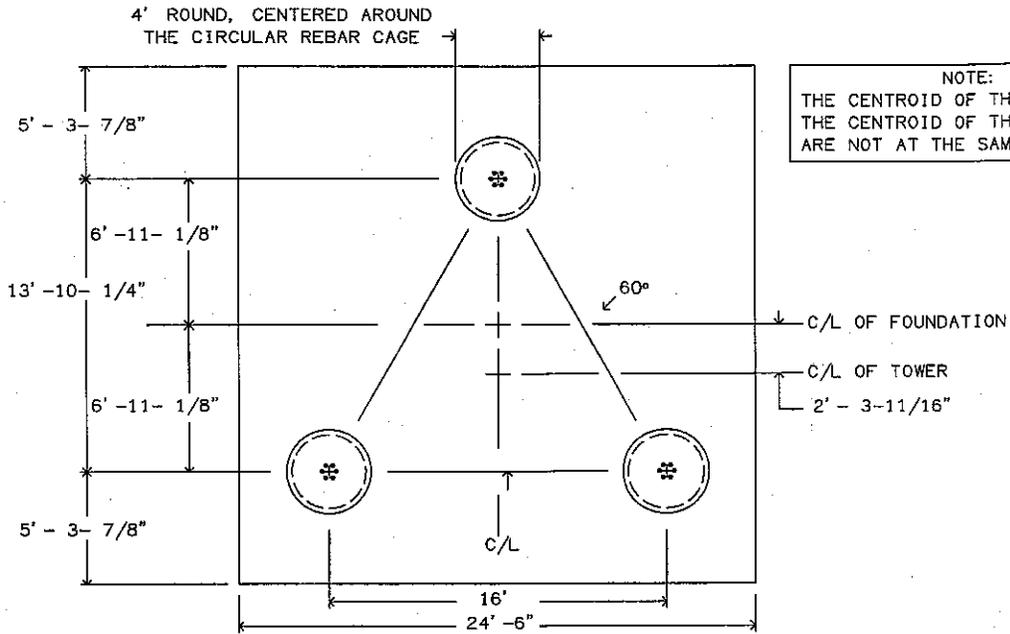


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TOWER FOUNDATION

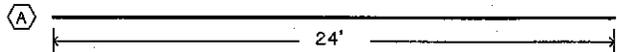
71.6 CUBIC YARDS CONCRETE REQUIRED
FOR INSTALLATION SPECIFICATIONS AND
ADDITIONAL INFORMATION, SEE PAGE 7
OF THIS DRAWING.



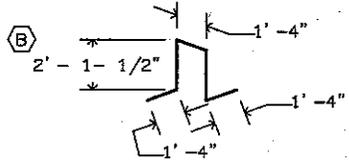
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			197611
		PAGE	8 OF 11

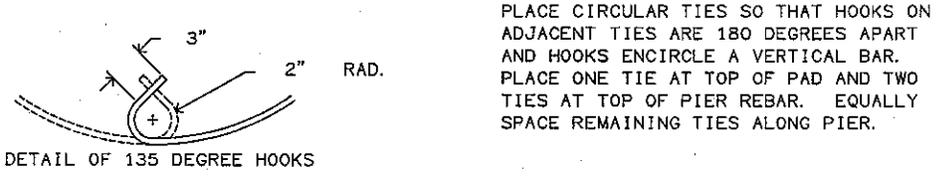
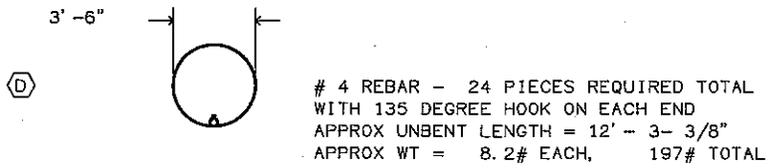
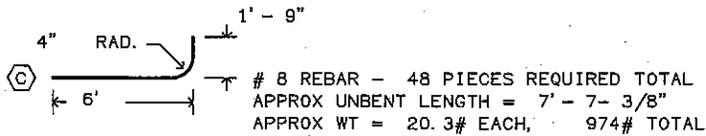


(A)  # 9 REBAR - 108 PIECES REQ. TOTAL
APPROX WT = 81.6# EACH, 8813# TOTAL

REBAR SUPPORTS MAY CONSIST OF ANY ACCEPTABLE MEANS OF SECURELY SUPPORTING THE TOP REINFORCEMENT GRID ABOVE THE BOTTOM REINFORCEMENT GRID WHILE MAINTAINING A SEPARATION OF 2'-6" (OUTSIDE REBAR TO OUTSIDE REBAR).



5 REBAR - 64 PIECES REQUIRED TOTAL
TYPE 26 STANDEE PLACED BETWEEN REBAR GRIDS ON NOMINAL 4' SPACING THROUGHOUT
APPROX UNBENT LENGTH = 8'-3-1/4"
APPROX WT = 8.6# EACH, 550# TOTAL



REBAR DETAIL

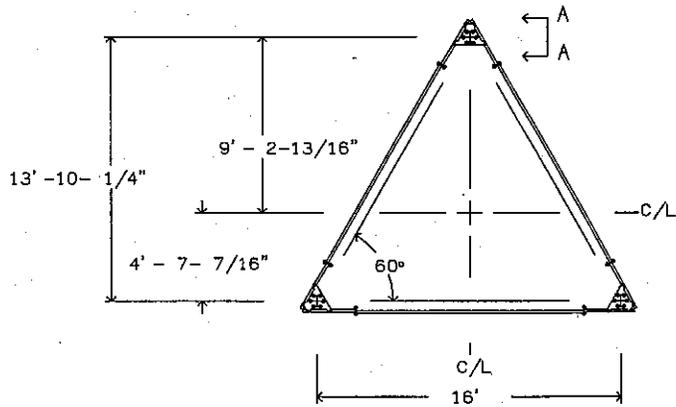
TOTAL APPROX REBAR WEIGHT = 10534#
REINFORCING BAR TO CONFORM TO
ASTM A615 GRADE 60 SPECIFICATIONS.



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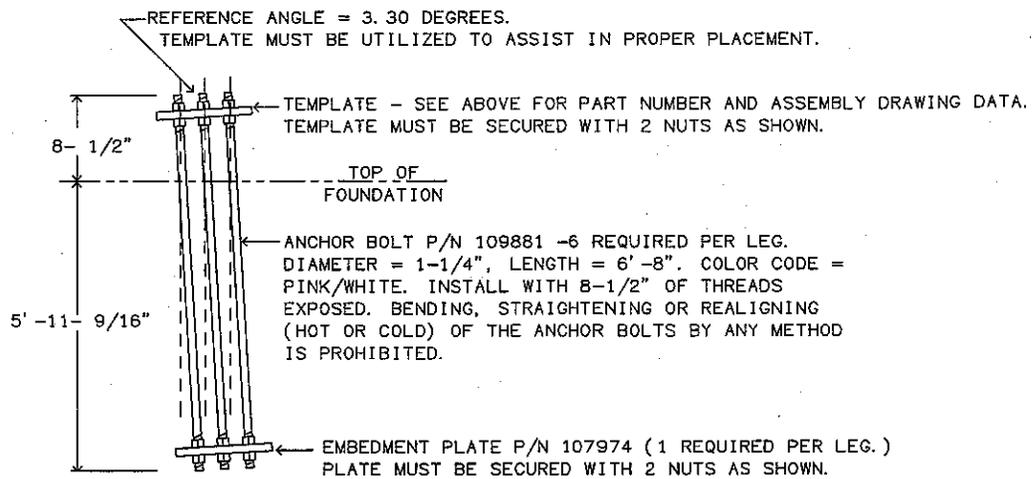




TOWER ANCHOR STEEL PLACEMENT - TOP VIEW

TEMPLATE ASSEMBLY P/N 159423 INCLUDES CORNER PLATE P/N 158387, IS REQUIRED FOR INSTALLATION AND MUST BE PLACED AS SHOWN. SEE DRAWING # 159394 FOR TEMPLATE ASSEMBLY DETAILS. CENTER OF TEMPLATE MUST BE PLACED OVER CENTER OF FOUNDATION +/- 3". EACH LEG MUST BE CENTERED IN PIER WITHIN +/- 10% OF PIER DIAMETER. TEMPLATE MUST BE LEVEL +/- 1 DEGREE. INSTALL TEMPLATE WITH SUFFICIENT SPACE BENEATH (2" MINIMUM) TO PERMIT FINISHING OF CONCRETE AND TO FACILITATE TEMPLATE REMOVAL PRIOR TO TOWER ERECTION.

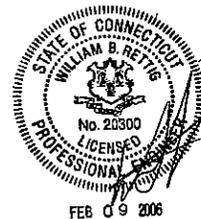
SEE PAGE 11 FOR BASE SECTION INSTALLATION DETAIL.



VIEW A - A - ANCHOR BOLT INSTALLATION DETAIL (NOT TO SCALE)

ATTENTION CONTRACTOR INSTALLING THE ANCHOR BOLTS!

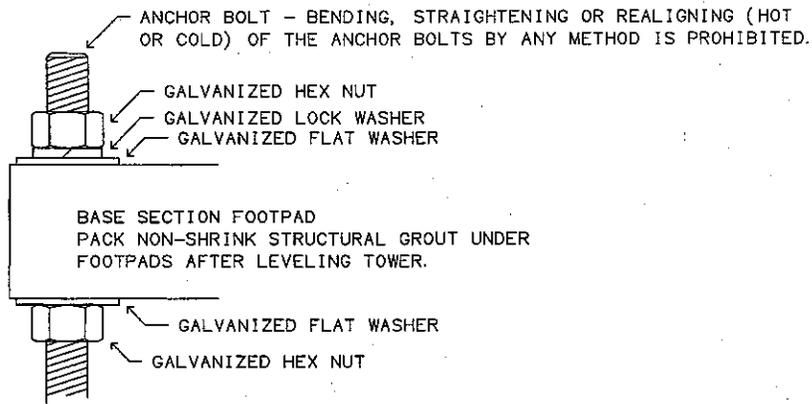
1-1/4" DIAMETER ANCHOR BOLTS FOR TAPERED TOWER.
 VERIFY THE PART NUMBERS AND SIZES FOR ALL COMPONENTS ON THIS PAGE AND PAGE 11.
 IF THERE ARE ANY DISCREPANCIES, PLEASE NOTIFY PIROD, INC., PRIOR TO INSTALLATION!!



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BASE SECTION INSTALLATION DETAIL



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Exhibit 3

Technical Memo

To: Karina Fournier
From: Anand Rapolu - Radio Frequency Engineer
cc: Jason Overbey
Subject: Power Density Report for CT11737C
Date: June 20, 2006

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 100 Sunset Ridge Drive, E Hartford, 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 RFS APX16PV-16PVL-E.
- 4) The antenna center line height is 120 ft.
- 5) The maximum transmit power from any sector is 2353.53 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 100 Sunset Ridge Drive, E Hartford, CT, is 0.03973 mW/cm². This value represents 3.973% of the Maximum Permissible Emission (MPE) standard of 1 milliwatt per square centimeter (mW/cm²) 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 3.1184%. The combined Power Density for the site is 7.092% of the M.P.E. standard.

New England Market



Connecticut

Worst Case Power Density

Site:	CT11737C
Site Address:	100 Sunset Ridge Drive
Town:	E Hartford
Tower Height:	140 ft.
Tower Style:	Existing Lattice Tower
Base Station TX output	20 W
Number of channels	8
Antenna Model	RFS APX16PV-16PVL-E
Cable Size	1 5/8 in.
Cable Length	140 ft.
Antenna Height	120.0 ft.
Ground Reflection	1.6
Frequency	1935.0 MHz
Jumper & Connector loss	4.50 dB
Antenna Gain	17.8 dBi
Cable Loss per foot	0.0116 dB
Total Cable Loss	1.6240 dB
Total Attenuation	6.1240 dB
Total EIRP per Channel (In Watts)	54.69 dBm 294.19 W
Total EIRP per Sector (In Watts)	63.72 dBm 2353.53 W
nsg	11.6760
Power Density (S) =	0.039731 mW/cm ²
T-Mobile Worst Case % MPE =	3.9731%

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
Public Works	0.6201 %
Fire	0.4070 %
Fire Admin	0.4131 %
Police Channels 1 & 2	1.0240 %
Parks & Rec	0.1653 %
Health	0.2481 %
800	0.2408 %
Total Excluding T-Mobile	3.1184 %
T-Mobile	3.9731
Total % MPE for Site	7.0915%