

**METROPCS MASSACHUSETTS, LLC NOTICE OF INTENT TO MODIFY
AN EXISTING TELECOMMUNICATIONS FACILITY AT
200 COLT HIGHWAY (RTE. 6) FARMINGTON, CT**

ORIGINAL

Pursuant to the Public Utility Environmental Standards Act, Connecticut General Statutes § 16-50g et. Seq. (“PUESA”), and Sections 16-50j-72(b) and 16-50j-73 of the Regulations of Connecticut State Agencies (“R.C.S.A”) adopted pursuant to the PUESA, Metro PCS, Inc., by and through its agent MetroPCS Massachusetts, LLC (“MetroPCS”) and as successor in interest to Pocket Communications hereby notifies the Connecticut Siting Council of its intent to modify an existing facility located at 200 Colt Highway (Route 6), Farmington, Connecticut. The telecommunications facility is owned by Communication Site Management, LLC and leased to MetroPCS

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MetroPCS’ Proposed Wireless Modifications

MetroPCS as successor in interest to Pocket Communications accepted an initial exempt modification approval from the Siting Council to install antennas and related ground equipment on March 17, 2009. The facility consists of a One thousand, two-hundred forty-eight foot high broadcast telecommunications tower (the “Tower”) within a fenced compound. MetroPCS now intends to modify the facility as shown on the enclosed plans prepared by Chappell Engineering Associates, LLC and annexed hereto as Exhibit 1. The modifications will consist of ground work only and entails expanding the existing MetroPCS lease area from 6’x6’ to 10’x9’, removing the one (1) existing radio cabinet and replacing with one (1) proposed radio cabinet and one (1) proposed battery cabinet. The existing ppc cabinet will remain resulting in a final ground configuration of one (1) radio cabinet, one (1) battery cabinet and one (1) ppc cabinet all within a 10’x9’ lease area. MetroPCS will not be modifying the existing antennas and related equipment installed on the tower at this time and therefore; will not affect the structural capacity of the existing tower.

CONNECTICUT
SITING COUNCIL

In accordance with R.C.S.A Section 16-50j-73, a copy of this submission is being sent to **Town of Farmington, CT** A copy of this submission is also being sent to **Communications Site Management LLC** the property owner on which the tower is located.

MetroPCS’ Proposed Wireless Modifications Constitutes An “Exempt Modification”

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

- 1) The proposed modifications are restricted to ground equipment only and will not result in an increase in the height of the existing tower.
- 2) The proposed modifications will not require expansion of the site boundaries.
- 3) The proposed modifications will not increase noise levels at the facility by six decibels or more.

- 4) MetroPCS' proposed facility will not increase the cumulative radio frequency electromagnetic radiation power density at the Tower site's boundary to or above the standard adopted by the Connecticut Department of Environmental Protection as set forth in Section 22a-162 of the Connecticut General Statutes and MPE limits established by the Federal Communications Commission. A cumulative General Power Density table for MetroPCS' proposed modified facility is included as Exhibit 2.

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

Respectfully submitted,



Marie R. Burbank, 860-214-4538

TRM, Inc 16 Chestnut Street

Foxborough, MA 02035

On behalf of MetroPCS Massachusetts, LLC

cc: **Town of Farmington, CT**
Communications Site Management

MetroPCS Massachusetts ID: HFC0378A

Document ID: Exempt Modification Request — 200 Colt Highway, Farmington

Exhibit 1

Site Plan

Exhibit 2

Power Density Calculation

Power Density Calculations

Control Number	Site	Carrier	#Channels	ERP/Ch	Ant Ht	Power Density (mW/cm2)	MHz	S
TS-XM-052-001218	Farmington - Rattlesnake Mountain	XM Radio	2	2558	460	0.0087	2337	1.00
TS-XM-052-001218	Farmington - Rattlesnake Mountain	All Other Sources						
EM-Pocket-052-090226	Farmington - Rattlesnake Mountain/201	metroPCS CDMA	3	727	140	0.0400	2135	1.00
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon cellular	9	261	120	0.0587	869	0.57
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon PCS	11	258	106	0.0908	1970	1.00
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon AWS	1	627	106	0.0201	2145	1.00
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon LTE	1	852	120	0.0213	698	0.46
EM-Clearwire-052-100326	Farmington - Rattlesnake Mountain	Clearwire	2	153	190	0.0030	2493	1.00
EM-Clearwire-052-100326	Farmington - Rattlesnake Mountain	Clearwire	1	211	190	0.0021	11 GHz	1.00
EM-Sprint-052-041004	Farmington - Rattlesnake Mountain	Sprint	11	433	160	0.0669	1962.5	1.00
EM-MediaFLO-052-080711	Farmington - Rattlesnake Mountain	MediaFLO			1132		719	
	Farmington - Rattlesnake Mountain/201	metroPCS LTE	1	1200	140	0.0220	2130	1.00

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HFC0378A

RATTLESNAKE MOUNTAIN

200 COLT HIGHWAY (ROUTE 6)
FARMINGTON, CT 06032
HARTFORD COUNTY

SITE TYPE: EQUIPMENT UPGRADE - GUYED TOWER

SITE INFORMATION:

PROPERTY OWNER: COMMUNICATIONS SITE MANAGEMENT, LLC
GOODWIN SQUARE
225 ASYLUM STREET, 28TH FLOOR
HARTFORD, CT 06103

TOWER OWNER: COMMUNICATIONS SITE MANAGEMENT, LLC
GOODWIN SQUARE
225 ASYLUM STREET, 28TH FLOOR
HARTFORD, CT 06103

TOWER OWNER SITE ID: N/A

APPLICANT: MetroPCS MASSACHUSETTS, LLC
285 BILLERICA ROAD, THIRD FLOOR
CHELMSFORD, MA 01824
(978) 244-7000

SITE ADDRESS: 200 COLT HIGHWAY (ROUTE 6)
FARMINGTON, CT 06032

COUNTY: HARTFORD

LATITUDE: N 41° 42' 13"

LONGITUDE: W 72° 49' 55"

ZONING CLASSIFICATION: EE (EARTH EXCAVATION)

ZONING JURISDICTION: TOWN OF FARMINGTON

TAX ID PARCEL NUMBER: MAP 141 LOT 7B

ARCHITECT / ENGINEER: CHAPPELL ENGINEERING ASSOCIATES, LLC
R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST
SUITE 101
MARLBOROUGH, MA 01752

POWER COMPANY: CONNECTICUT LIGHT & POWER
P.O. BOX 270
HARTFORD, CT 06141-0270
(800) 256-2000

TELEPHONE COMPANY: AT&T CONNECTICUT
2147 SUMMER STREET
STAMFORD, CT 06905-4523
(203) 705-9992

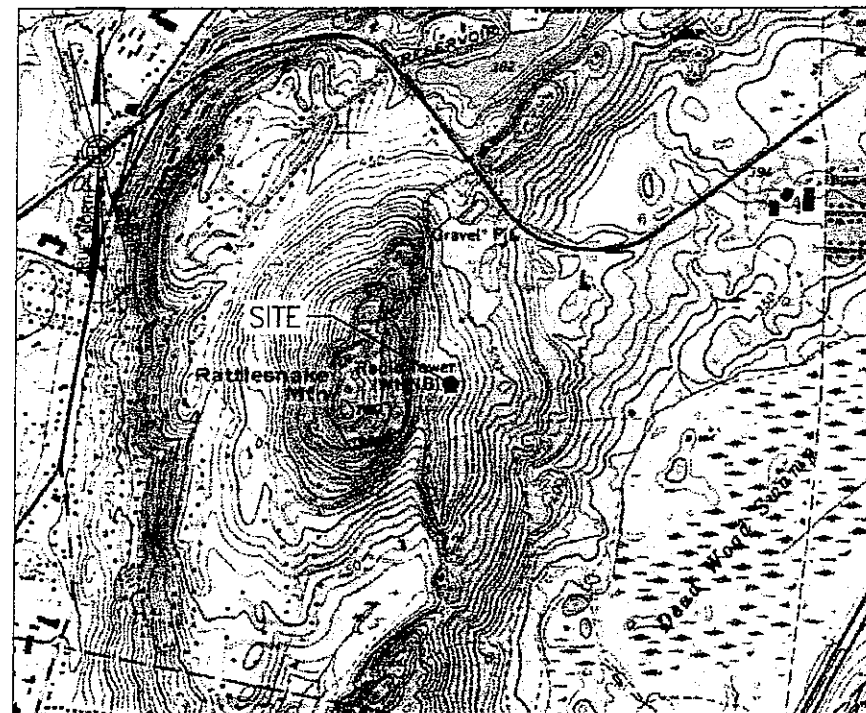
SITE ACQUISITION MANAGER: KELLIE DUNN
(978) 244-7200

CONSTRUCTION MANAGER: DAVE BEAN
(978) 244-7200

OPERATIONS MANAGER: MIKE WILBANKS
(978) 244-7200

VICINITY MAP

SCALE: 1"=1000'



DRIVING DIRECTIONS

TAKE I-495 SOUTH TOWARD MARLBOROUGH/TAUNTON. TAKE EXIT 25B FOR I-290 WEST TOWARD WORCESTER. TAKE EXIT 7 FOR I-90/MASS PIKE. FOLLOW SIGNS FOR I-90 WEST/SPRINGFIELD/ALBANY AND MERGE ONTO I-90 WEST. TAKE EXIT 9 FOR I-84 WEST TOWARD US-20/HARTFORD/NEW YORK CITY. TAKE EXIT 38 FOR US-6 WEST TOWARD BRISTOL. TAKE SLIGHT RIGHT ONTO US-6 WEST. SITE IS LOCATED ON THE LEFT HAND SIDE.

APPROVALS

LANDLORD: _____
FIELD CONST. MGR: _____
RF ENGINEER: _____
SITE ACQUISITION AGENT: _____
ZONING MANAGER: _____
ERICSSON: _____

SHEET INDEX

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PROJECT DESCRIPTION

- THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNAL FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.
- THIS FACILITY WILL CONSUME NO UNRECOVERABLE ENERGY.
- NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.
- NO WASTE WATER WILL BE GENERATED AT THIS LOCATION.
- NO SOLID WASTE WILL BE GENERATED AT THIS LOCATION.
- METRO PCS MAINTENANCE CREW (TYPICALLY ONE PERSON) WILL MAKE AN AVERAGE OF ONE TRIP PER MONTH AT ONE HOUR PER VISIT.

DO NOT SCALE DRAWINGS

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

metroPCS

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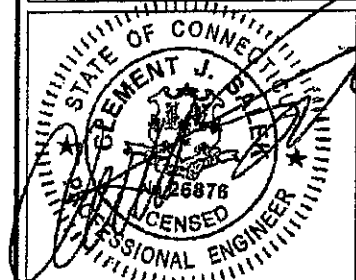
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ASSOCIATES, LLC

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(508) 481-7400
www.chappellengineering.com



ENGINEER/LAND SURVEYOR DATE

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

REV. #	DATE	DESCRIPTION
2	01/18/13	CONSTRUCTION REVISED
1	12/20/12	CONSTRUCTION FINAL
0	12/06/12	ISSUED FOR CONSTRUCTION

PROJECT NO.	DESIGNED BY:	CHK	SCALE:
1255.017	CMC	CMC	AS SHOWN

SITE NAME:
**HFC0378A
RATTLESNAKE
MOUNTAIN**

SITE ADDRESS:
200 COLT HIGHWAY (ROUTE 6)
FARMINGTON, CT 06032

DRAWING TITLE:
TITLE SHEET

DRAWING NO:
T-1

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR - METRO PCS
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER - METRO PCS
 OEM - ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR. ALL CONTRACTORS MUST BE APPROVED BY COMMUNICATIONS SITE MANAGEMENT, LLC.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL, STATE AND FEDERAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
5. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR. ALL CHANGES MUST BE APPROVED BY COMMUNICATIONS SITE MANAGEMENT, LLC.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1 CABLES AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR AND/OR LANDLORD PRIOR TO CONSTRUCTION.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
13. THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
14. SUBCONTRACTOR SHALL NOTIFY CHAPPELL ENGINEERING ASSOCIATES, LLC 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
15. CONSTRUCTION SHALL COMPLY WITH ALL METRO PCS STANDARDS AND SPECIFICATIONS.
16. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
17. THE EXISTING CELL SITES ARE IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER WADNIGHT. ANY AFTER HOURS INSTALLATION WORK MUST BE APPROVED AND COORDINATED WITH COMMUNICATIONS SITE MANAGEMENT, LLC.
18. IF THE EXISTING CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

ELECTRICAL INSTALLATION NOTES:

1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
2. SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLE TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#8 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TANNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
13. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WRENUTS BY HARDER (OR EQUAL). LUGS AND WRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR EMBEDDED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
24. CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
27. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
31. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
32. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
33. EXISTING TENANTS LOCATED IN MULTIPLE TENANT CIRCUIT BREAKERS SHALL REMAIN ENERGIZED WHILE ADDITIONAL SERVICE IS ROUTED TO METRO PCS.

metro PCS
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STATE OF CONNECTICUT
 CLEMENT J. BROWN
 026078
 LICENSED PROFESSIONAL ENGINEER
 ENGINEER/LAND SURVEYOR DATE
 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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1	12/20/12	CONSTRUCTION FINAL
0	12/06/12	ISSUED FOR CONSTRUCTION

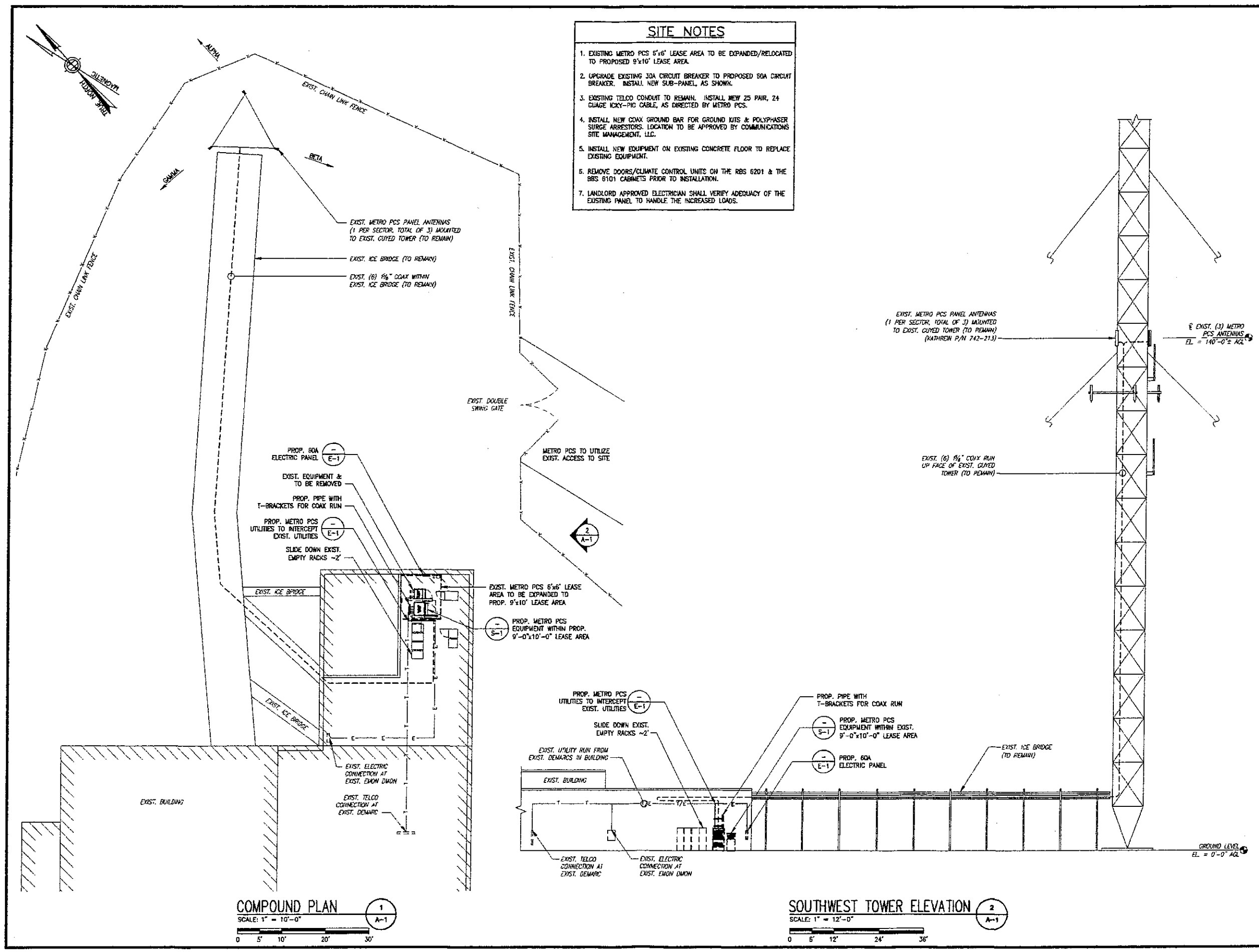
PROJECT NO. 1255.017	DESIGNED BY: JMT DRAWN BY: CMC CHECKED BY: JMT	SCALE: AS SHOWN
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SITE NAME:
**HFC0378A
 RATTLESNAKE
 MOUNTAIN**

SITE ADDRESS:
 200 COLT HIGHWAY (ROUTE 6)
 FARMINGTON, CT 06032

DRAWING TITLE:
GENERAL NOTES

DRAWING NO:
GN-1



- SITE NOTES**
- EXISTING METRO PCS 6'x6' LEASE AREA TO BE EXPANDED/RELOCATED TO PROPOSED 9'x10' LEASE AREA.
 - UPGRADE EXISTING 30A CIRCUIT BREAKER TO PROPOSED 60A CIRCUIT BREAKER. INSTALL NEW SUB-PANEL, AS SHOWN.
 - EXISTING TELCO CONDUIT TO REMAIN. INSTALL NEW 25 PAIR, 24 GAUGE RYKY-PIG CABLE, AS DIRECTED BY METRO PCS.
 - INSTALL NEW COAX GROUND BAR FOR GROUND KITS & POLYPHASE SURGE ARRESTORS. LOCATION TO BE APPROVED BY COMMUNICATIONS SITE MANAGEMENT, LLC.
 - INSTALL NEW EQUIPMENT ON EXISTING CONCRETE FLOOR TO REPLACE EXISTING EQUIPMENT.
 - REMOVE DOORS/CLIMATE CONTROL UNITS ON THE RBS 6201 & THE BBS 6101 CABINETS PRIOR TO INSTALLATION.
 - LANDLORD APPROVED ELECTRICIAN SHALL VERIFY ADEQUACY OF THE EXISTING PANEL TO HANDLE THE INCREASED LOADS.

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STATE OF CONNECTICUT
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1	12/20/12	CONSTRUCTION FINAL
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PROJECT NO.	DESIGNED BY	DATE	SCALE
1255.017	CME	JMT	AS SHOWN

SITE NAME:
 HFC0378A
 RATTLESNAKE
 MOUNTAIN

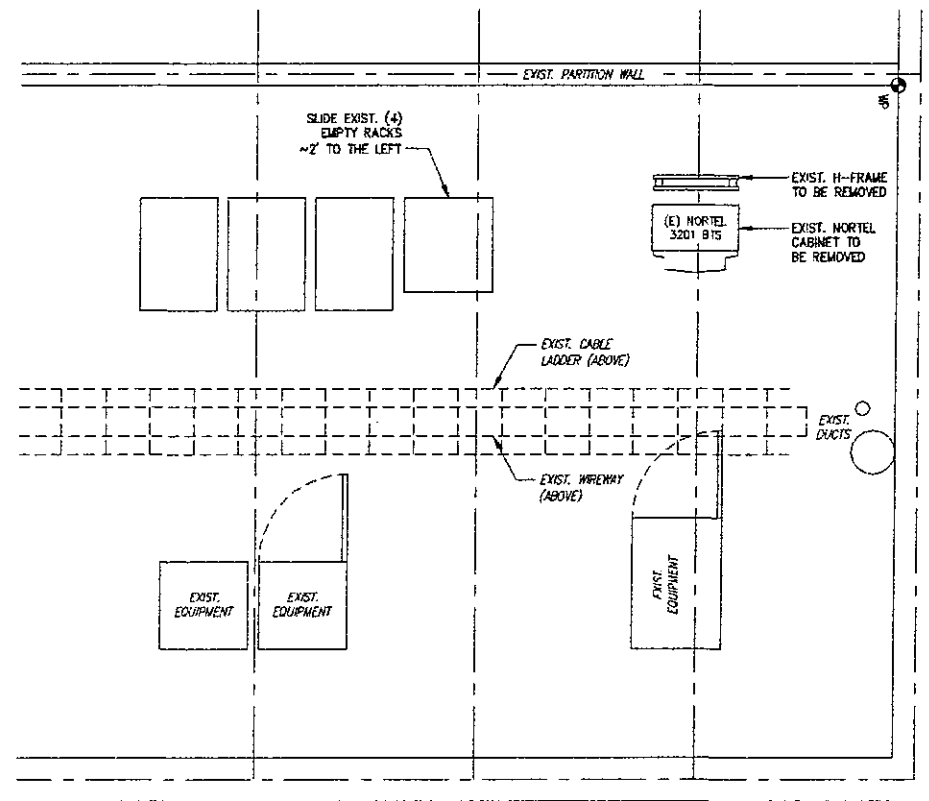
SITE ADDRESS:
 200 COLT HIGHWAY (ROUTE 6)
 FARMINGTON, CT 06032

DRAWING TITLE:
 COMPOUND PLAN &
 ELEVATION

DRAWING NO.:
 A-1

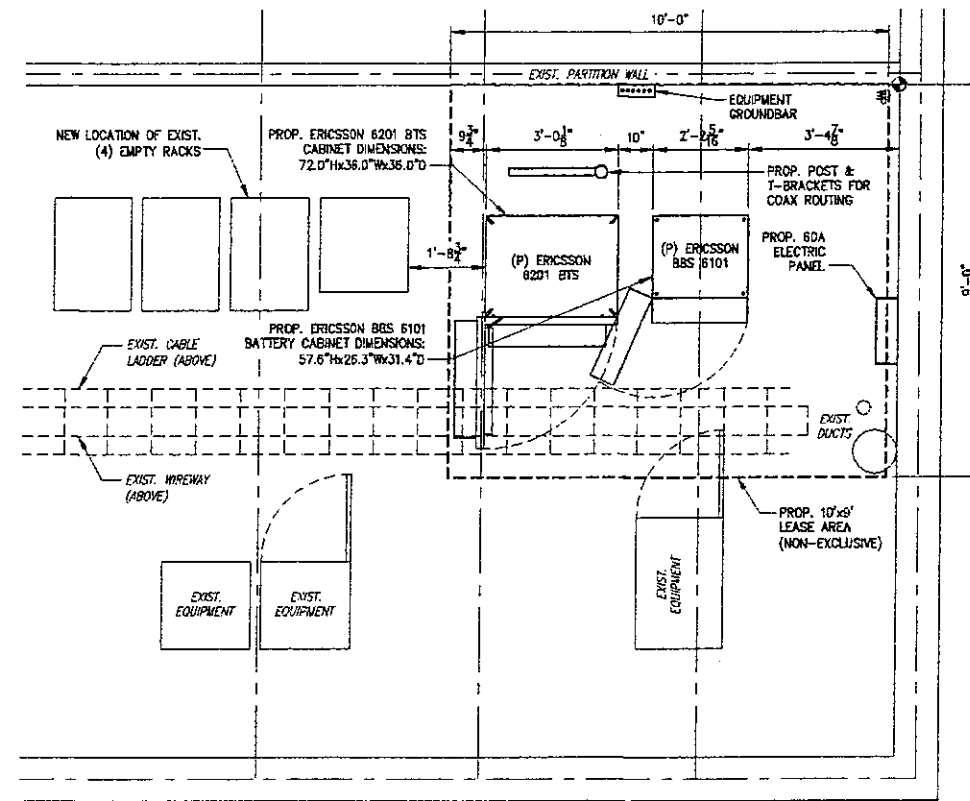
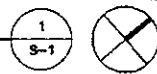
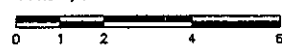
COMPOUND PLAN
 SCALE: 1" = 10'-0"
 1
 A-1

SOUTHWEST TOWER ELEVATION
 SCALE: 1" = 12'-0"
 2
 A-1



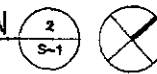
EXISTING EQUIPMENT PLAN

SCALE: 1/2" = 1'-0"



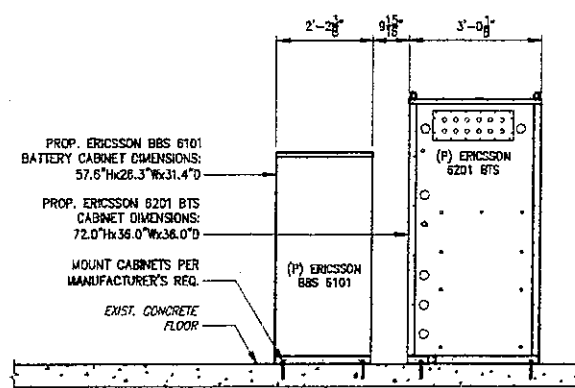
PROPOSED EQUIPMENT PLAN

SCALE: 1/2" = 1'-0"



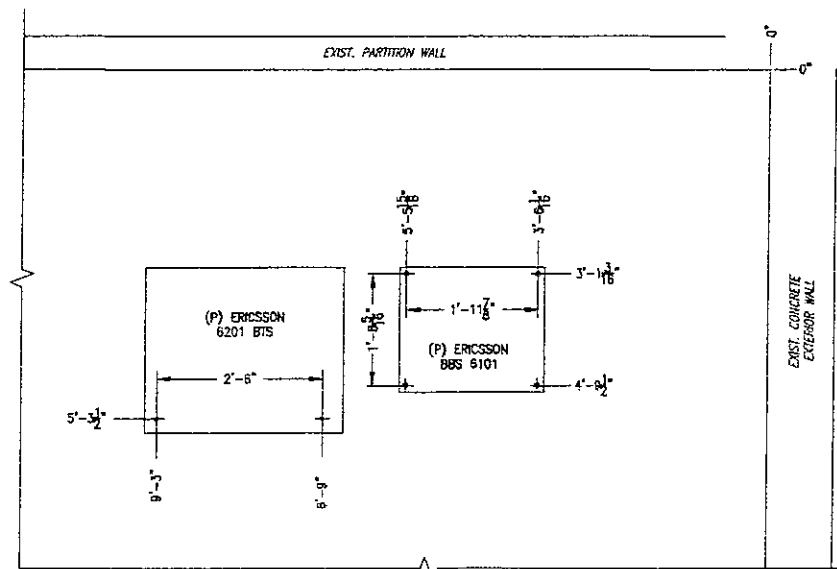
STRUCTURAL NOTE

FINAL EQUIPMENT CONFIGURATION BASED ON STRUCTURAL ANALYSIS BY D'AMATO CONSTRUCTION. ANY MODIFICATIONS TO BE INSTALLED PRIOR TO CONSTRUCTION.



SECTION AT EQUIPMENT PAD

SCALE: 1/2" = 1'-0"



NOTES:

1. MOUNT CABINETS TO CONCRETE PAD PER MANUFACTURER'S REQUIREMENTS.
2. PROVIDE 3'-0" MIN SERVICE ACCESS IN FRONT AND REAR OF ALL CABINETS

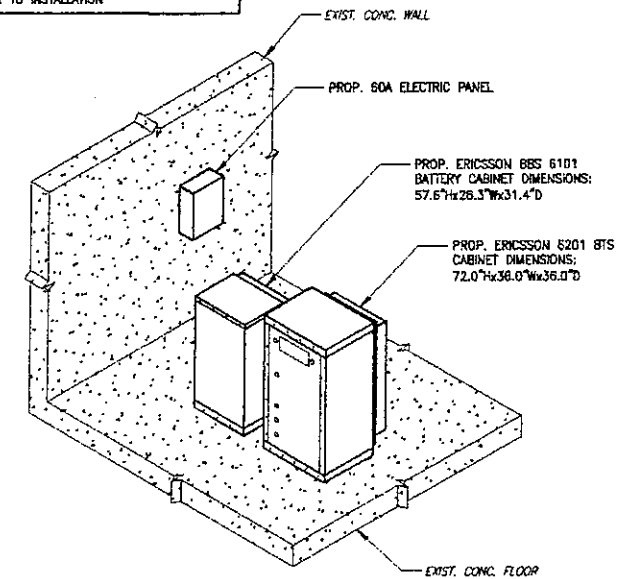
ANCHORING FOOTPRINT DETAIL

SCALE: 3/4" = 1'-0"



EQUIPMENT NOTES

- BBS 6101 - REMOVE DOOR (AC & HEATER) PRIOR TO INSTALLATION
- ODE 6201 V2 - REMOVE DOOR (CLIMATE CONTROL SYSTEM) PRIOR TO INSTALLATION



EQUIPMENT LAYOUT DETAIL

SCALE: NTS



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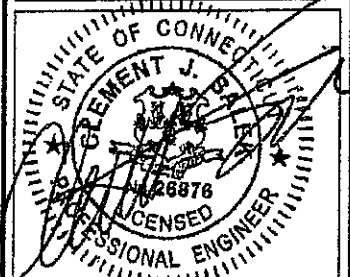
285 BILLERICA ROAD
THIRD FLOOR
CHELMSFORD, MA 01824
TEL (978) 244-7000
FAX (978) 244-7240

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PLANO, TX 75024
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CHAPPELL ENGINEERING ASSOCIATES, LLC

R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
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ENGINEER/LAND SURVEYOR DATE

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REVISIONS

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1255.017	CAC		AS SHOWN

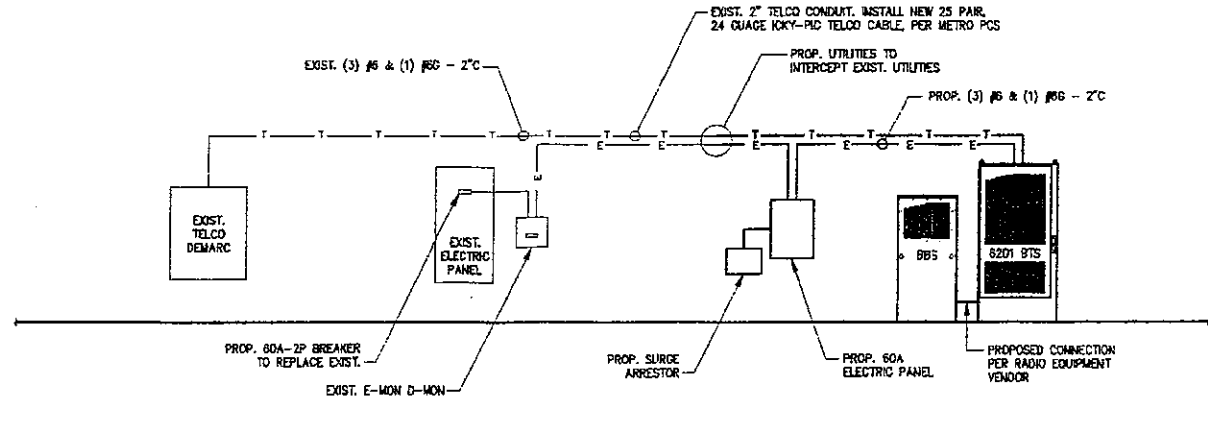
SITE NAME:
**HFC0378A
RATTLESNAKE
MOUNTAIN**

SITE ADDRESS:
200 COLT HIGHWAY (ROUTE 6)
FARMINGTON, CT 06032

DRAWING TITLE:
**EQUIPMENT PLAN,
SECTIONS & DETAILS**

DRAWING NO.:
S-1

MAKE ALL CONNECTIONS AS PER UTILITY COMPANY'S REQUIREMENTS.



POWER/TELCO RISER DIAGRAM
 SCALE: NOT TO SCALE

NOTE:
 FINAL ELECTRIC DESIGN PER COMMUNICATION SITE MANAGEMENT, LLC APPROVED ELECTRICIAN.

ELECTRICAL AND GROUNDING NOTES:

- ELECTRICAL**
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND ALL APPLICABLE LOCAL AND NATIONAL CODES.
 - CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
 - SERVICE TO EQUIP. SHALL BE 120/240 VAC, 60 AMP, 1 ϕ , 60 Hz.
 - THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
- GROUNDING**
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC (CADWELD) CONNECTIONS.
 - ALL GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC (CADWELD).
 - ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
 - ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
 - ALL EXTERIOR GROUND CONDUCTORS SHALL BE #2 AWG SOLID THINNED COPPER UNLESS OTHERWISE INDICATED.
 - CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
 - USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
 - MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED 5 OHMS. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT SPECIFICATION FOR FACILITY GROUNDING, USING FALL OF POTENTIAL METHOD.
 - ANTENNA GROUND KITS SHALL BE FURNISHED BY METRO PCS AND INSTALLED BY CONTRACTOR.
 - MAIN GROUND CONNECTION SHALL BE TO EXISTING BUILDING GROUND RING/BUILDING STEEL.

LEGEND:

- ⊗ GROUND TEST WELL
- ⋈ GROUND ROD
- DISCONNECT SWITCH
- Ⓜ METER
- ▲ CADWELD TYPE CONNECTION
- COMPRESSION TYPE CONNECTION
- GROUNDING WIRE
- XXX ← REPRESENTS DETAIL NUMBER
- XXX ← REF. DRAWING NUMBER

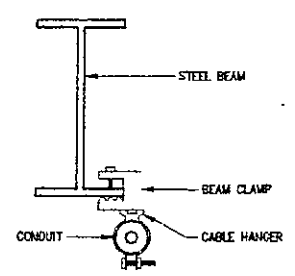
ABBREVIATIONS:

- AWG AMERICAN WIRE GAUGE
- BCW BARE COPPER WIRE
- CGBE COAX GROUND BAR EXTERNAL
- CGIE COAX ISOLATED GROUND BAR EXTERNAL
- DWG DRAWING
- EMT ELECTRICAL METALLIC TUBING
- MOB MASTER GROUND BAR
- PCS PERSONAL COMMUNICATION SYSTEM
- PVC RIGID (SCH. 40) POLYVINYL CHLORIDE CONDUIT
- RGS RIGID GALVANIZED STEEL
- RWY RACEWAY
- TYP TYPICAL

SQUARE D, TYPE 90 SQUARE D, TYPE D 60A2P MAIN PANEL SCHEDULE 22,000 A.I.C. NEMA 1

CKT #	DESCRIPTION	AMP	AMP	DESCRIPTION	CKT #
1	SURGE SUPPRESSOR	30	60	ERICSSON E201	2
3	SPARE	-	-	SPARE	4
5	SPARE	-	-	SPARE	6
7	SPARE	-	-	SPARE	8
9	SPARE	-	-	SPARE	10
11	SPARE	-	-	SPARE	12
13	SPARE	-	-	SPARE	14
15	SPARE	-	-	SPARE	16
17	SPARE	-	-	SPARE	18
19	SPARE	-	-	SPARE	20
21	SPARE	-	-	SPARE	22
23	SPARE	-	-	SPARE	24

PANEL SCHEDULE
 SCALE: NTS



CONDUIT MOUNTING DETAIL
 SCALE: NTS

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 www.chappellengineering.com

STATE OF CONNECTICUT
 ELEMENT J. B. [Signature]
 28876
 LICENSED PROFESSIONAL ENGINEER
 ENGINEER/LAND SURVEYOR DATE

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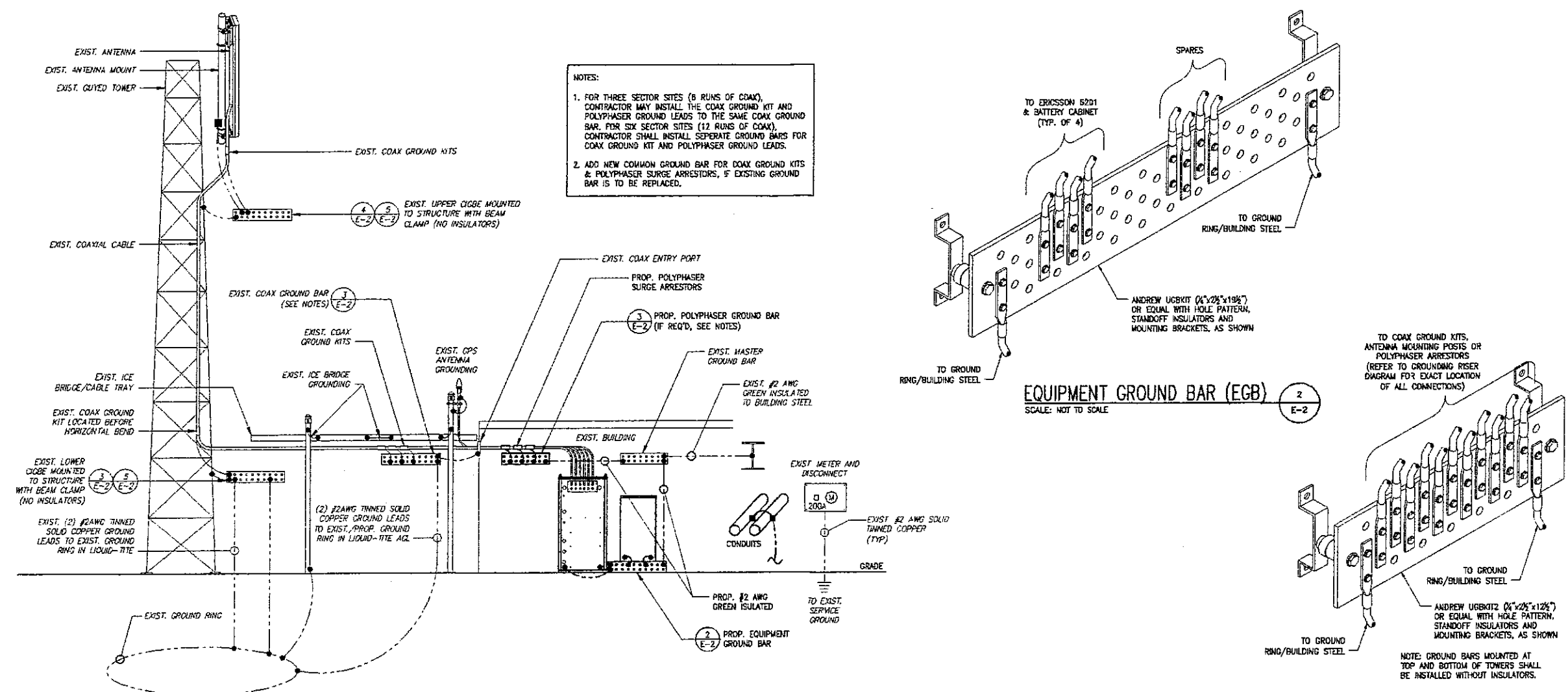
PROJECT NO. 1255.017	DESIGNED BY: JMT DRAWN BY: CMC CHECKED BY: JMT	SCALE: AS SHOWN
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SITE NAME:
 HFC0378A
 RATTLESNAKE
 MOUNTAIN

SITE ADDRESS:
 200 COLT HIGHWAY (ROUTE 6)
 FARMINGTON, CT 06032

DRAWING TITLE:
 ONE-LINE DIAGRAM,
 RISER, DETAILS & NOTES

DRAWING NO.:
 E-1



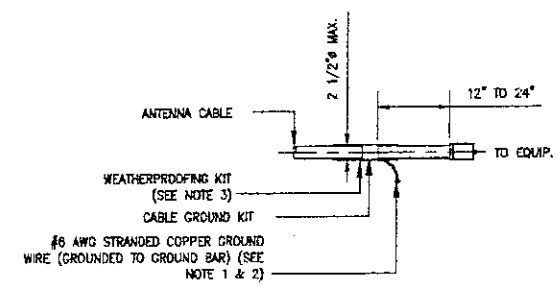
NOTES:

- FOR THREE SECTOR SITES (8 RUNS OF COAX), CONTRACTOR MAY INSTALL THE COAX GROUND KIT AND POLYPHASE GROUND LEADS TO THE SAME COAX GROUND BAR. FOR SIX SECTOR SITES (12 RUNS OF COAX), CONTRACTOR SHALL INSTALL SEPARATE GROUND BARS FOR COAX GROUND KIT AND POLYPHASE GROUND LEADS.
- ADD NEW COMMON GROUND BAR FOR COAX GROUND KITS & POLYPHASE SURGE ARRESTORS, IF EXISTING GROUND BAR IS TO BE REPLACED.

GROUNDING RISER DIAGRAM
SCALE: NOT TO SCALE

EQUIPMENT GROUND BAR (EGB)
SCALE: NOT TO SCALE

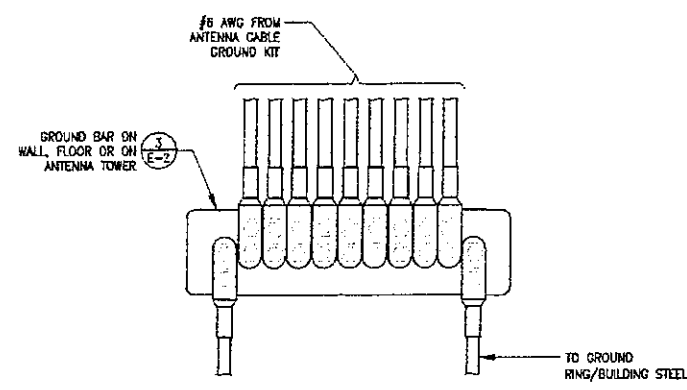
COAX/POLYPHASE GROUND BAR (CGB)
SCALE: NOT TO SCALE



CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE

- NOTES:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 - WEATHER PROOFING SHALL BE TWO-PART TAPE SUPPLIED WITH KIT. COLD SHRINK SHALL NOT BE USED.

DETAIL
SCALE: NOT TO SCALE



INSTALLATION OF GROUND WIRE TO GROUND BAR

DETAIL
SCALE: NOT TO SCALE

SITE GROUNDING NOTES

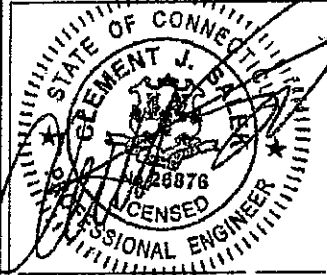
- NO CADWELDING SHALL BE PERFORMED INSIDE THE BUILDING.
- NO CADWELDING TO THE EXISTING TOWER STRUCTURE.
- NO DRILLING THE EXISTING TOWER STRUCTURE.
- ANY ADDITIONAL GROUND BAR LOCATIONS SHALL BE APPROVED BY COMMUNICATIONS SITE MANAGEMENT, LLC.

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PROJECT NO. 1255.017	DESIGNED BY: JMT DRAWN BY: CMC CHECKED BY: JMT	SCALE: AS SHOWN
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SITE NAME:
HFC0378A
RATTLESNAKE MOUNTAIN

SITE ADDRESS:
200 COLT HIGHWAY (ROUTE 6)
FARMINGTON, CT 06032

DRAWING TITLE:
GROUNDING DETAILS

DRAWING NO.:
E-2

Power Density Calculations

Control Number	Site	Carrier	#Channels	ERP/Ch	Ant Ht	Power Density (mW/cm2)	MHz	S	%MPE	Sit
TS-XM-052-001218	Farmington - Rattlesnake Mountain	XM Radio	2	2558	460	0.0087	2337	1.0000	0.87%	
TS-XM-052-001218	Farmington - Rattlesnake Mountain	All Other Sources							14.18%	
EM-Pocket-052-090226	Farmington - Rattlesnake Mountain/200 Colt Hwy	metroPCS CDMA	3	727	140	0.0400	2135	1.0000	4.00%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon cellular	9	261	120	0.0587	869	0.5793	10.12%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon PCS	11	258	106	0.0908	1970	1.0000	9.08%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon AWS	1	627	106	0.0201	2145	1.0000	2.01%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon LTE	1	852	120	0.0213	698	0.4653	4.57%	
EM-Clearwire-052-100326	Farmington - Rattlesnake Mountain	Clearwire	2	153	190	0.0030	2493	1.0000	0.30%	
EM-Clearwire-052-100326	Farmington - Rattlesnake Mountain	Clearwire	1	211	190	0.0021	11 GHz	1.0000	0.21%	
EM-Sprint-052-041004	Farmington - Rattlesnake Mountain	Sprint	11	433	160	0.0669	1962.5	1.0000	6.69%	
EM-MediaFLO-052-080711	Farmington - Rattlesnake Mountain	MediaFLO			1132		719		0.04%	5
	Farmington - Rattlesnake Mountain/200 Colt Hwy	metroPCS LTE	1	1200	140	0.0220	2130	1.0000	2.20%	5

Power Density Calculations

Control Number	Site	Carrier	#Channels	ERP/Ch	Ant Ht	Power Density (mW/cm2)	MHz	S	%MPE	Siti
TS-XM-052-001218	Farmington - Rattlesnake Mountain	XM Radio	2	2558	460	0.0087	2337	1.0000	0.87%	
TS-XM-052-001218	Farmington - Rattlesnake Mountain	All Other Sources							14.18%	
EM-Pocket-052-090226	Farmington - Rattlesnake Mountain/200 Colt Hwy	metroPCS CDMA	3	727	140	0.0400	2135	1.0000	4.00%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon cellular	9	261	120	0.0587	869	0.5793	10.12%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon PCS	11	258	106	0.0908	1970	1.0000	9.08%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon AWS	1	627	106	0.0201	2145	1.0000	2.01%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon LTE	1	852	120	0.0213	698	0.4653	4.57%	
EM-Clearwire-052-100326	Farmington - Rattlesnake Mountain	Clearwire	2	153	190	0.0030	2493	1.0000	0.30%	
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EM-MediaFLO-052-080711	Farmington - Rattlesnake Mountain	MediaFLO			1132		719		0.04%	5
	Farmington - Rattlesnake Mountain/200 Colt Hwy	metroPCS LTE	1	1200	140	0.0220	2130	1.0000	2.20%	5

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EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon cellular	9	261	120	0.0587	869	0.5793	10.12%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon PCS	11	258	106	0.0908	1970	1.0000	9.08%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon AWS	1	627	106	0.0201	2145	1.0000	2.01%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon LTE	1	852	120	0.0213	698	0.4653	4.57%	
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EM-Clearwire-052-100326	Farmington - Rattlesnake Mountain	Clearwire	1	211	190	0.0021	11 GHz	1.0000	0.21%	
EM-Sprint-052-041004	Farmington - Rattlesnake Mountain	Sprint	11	433	160	0.0669	1962.5	1.0000	6.69%	
EM-MediaFLO-052-080711	Farmington - Rattlesnake Mountain	MediaFLO			1132		719		0.04%	5
	Farmington - Rattlesnake Mountain/200 Colt Hwy	metroPCS LTE	1	1200	140	0.0220	2130	1.0000	2.20%	5

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EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon PCS	11	258	106	0.0908	1970	1.0000	9.08%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon AWS	1	627	106	0.0201	2145	1.0000	2.01%	
EM-VER-052-121001	Farmington - Rattlesnake Mountain	Verizon LTE	1	852	120	0.0213	698	0.4653	4.57%	
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EM-Clearwire-052-100326	Farmington - Rattlesnake Mountain	Clearwire	1	211	190	0.0021	11 GHz	1.0000	0.21%	
EM-Sprint-052-041004	Farmington - Rattlesnake Mountain	Sprint	11	433	160	0.0669	1962.5	1.0000	6.69%	
EM-MediaFLO-052-080711	Farmington - Rattlesnake Mountain	MediaFLO			1132		719		0.04%	5
	Farmington - Rattlesnake Mountain/200 Colt Hwy	metroPCS LTE	1	1200	140	0.0220	2130	1.0000	2.20%	5