Adonted:

RESOLUTION NO. 2015-3

A RESOLUTION AUTHORIZING THE EXECUTION OF AMENDMENT NUMBER ONE TO SITE AGREEMENT BY AND BETWEEN SPRINT SPECTRUM REALTY COMPANY, L.P., FOR COMMUNICATIONS ANTENNA LOCATED AT THE SIXTH AND PEAR STREETS WATER TOWER.

WHEREAS, the City Council of the City of Vineland adopted Ordinance No. 2004-08 authorizing the execution of a Site Agreement with Sprint Spectrum, L.P., now Sprint Spectrum Realty Company, L.P., (Sprint) for communications antenna located at Sixth and Pear Streets Water Tower (Site); and

WHEREAS, Sprint requests the City of Vineland (City) approve certain modifications to their use of the Site for the installation of RRH and one antenna per sector on the site more particularly described in drawings of McGowan Engineering, Riverside, New Jersey, Project PL57XC017, attached to the proposed Amendment Number One, attached hereto and made a part hereof; and

WHEREAS, as consideration for the aforementioned modification, Sprint shall pay monthly rental increase of Two Hundred (\$200.00) Dollars; and

WHEREAS, the Superintendent of the Water Utility has recommended the execution of this Amendment; and

WHEREAS, the City Council finds it to be in the best interest of the City to authorize the amendment.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Vineland that the Mayor and Clerk are authorized to execute Amendment Number One to Site Agreement with Spectrum Realty Company, L.P., for Communication Antenna located at Sixth and Pear Streets Water Tower in the form and substance attached hereto and made a part hereof.

Taopica.	
ATTEST:	President of Council
City Clerk	

AMENDMENT NO. 1 TO SITE AGREEMENT

This Amendment No. 1 to the Communications Antenna Site Lease Agreement (this "Amendment"), effective as of the date last signed below ("Effective Date"), amends a certain Communications Antenna Site Lease Agreement between Sprint Spectrum Realty Company, L.P., successor in interest to Sprint Spectrum L.P. ("Carrier"), and the City of Vineland (the "City"), dated September 1, 2004 (the "Agreement").

BACKGROUND

WHEREAS, Carrier desires to modify its installation on the Sixth & Pear Streets water tower facility located on Block 3008, Lot 21 (the "Site") by adding or swapping out antennas and other equipment to the Facilities, as more particularly described in Exhibit A-1 annexed hereto, and Carrier and City desire to modify the provisions of the Agreement as provided below.

AGREEMENT

For good and valuable consideration the receipt and sufficiency of which are acknowledged, City and Carrier agree as follows:

- 1. Modification to the Facilities. Exhibit A to the Agreement is hereby amended to include the modifications identified on Exhibit A-1, a copy of which is attached and made a part hereof. Exhibit A-1 supplements Exhibit A to the Agreement, and shall not be deemed to supersede or otherwise modify Exhibit A or any part thereof except to the extent specifically set forth in Exhibit A-1. Upon full execution of this Amendment, Carrier is permitted to do all work necessary to prepare, maintain and alter the Site to install or otherwise modify the Facilities, all as more fully described and contemplated in Exhibit A-1.
- 2. <u>Limitations of Work; Inspection of Work.</u> No changes other than those set forth on the Designs shall be permitted. The City shall be permitted to inspect all work to assure compliance with Designs and all costs incurred by the City to assure compliance, including engineering and construction inspections shall be borne by the Carrier.
- 3. Modification to Rent. As additional consideration for the modification and other rights set forth in this Amendment, starting on the date that is 30 days after the start of construction of the modifications to the Facilities, the monthly rent will be increased by \$200.00.

4. General Terms and Conditions.

- All capitalized terms used in this Amendment, unless otherwise defined herein, will have the same meaning as the terms contained in the Agreement.
- b. In case of any inconsistencies between the terms and conditions contained in the Agreement and the terms and conditions contained in this Amendment, the terms and conditions herein will control. Except as set forth below, all provisions of the Agreement are ratified and remain unchanged and in full force and effect.
 - c. This Amendment may be executed in duplicate counterparts, each of which will be deemed an original.
- d. Each of the parties represents and warrants that it has the right, power, legal capacity and authority to enter into and perform its respective obligations under this Amendment.

The parties have executed this Amendment as of the Effective Date.

City: City of Vineland	Carrier: Sprint Spectrum Realty Company, L.P.		
Ву:	Ву:	MA	
Printed Name:	Printed Name:	Pos Cosaul	
Title:	Title:	SDM	
Date:	Date:	11/12/14	

PL25XC017

(Dates must be completed)

Go Back to Agenda

Exhibit A-1

[see attached



6100 SPRINT PARKWAY OVERLAND PARK, KS 66251

PL25XC017

600 E. PEAR STREET VINELAND, NJ 08360 **CUMBERLAND COUNTY**

PROJECT INFORMATION

APPLICANT:

SPRINT 6100 SPRINT PARKWAY OWRIAND PARK, KS 66251

SITE ADDRESS:

600 E PEAR ST. VINELAND, NJ 08360

PROPERTY OWNER:

CITY OF VINELAND SEVENTH & WOOD ST. VINELAND, NJ 08360

BLOCK/LOT/MAP:

ZONING JURISDICTION:

CITY OF VINELAND CUMBERLAND COUNTY

ENGINEER:

SPRINT CONSTR. MANAGER:

CONTACT: DARIUS GARNETT PHONE: 973-914-7772

SPRINT SITE ACQ. MANAGER:

CONTACT: JENNIFER GALLO PHONE: 201-684-4023

SPRINT RF ENGINEER:

CONTACT: ROSARIO CONEI PHONE: 908-660-0447

LATITIUDE:

LONGITUDE:

PHOTOGRAPH

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF EXCHANGING OR INSTALLING ADDITIONAL EQUIPMENT AND/OR ANTENNAS TO AN EXISTING WIRLESS TELECOMMUNICATIONS FACULTY



LOCATION MAP

GENERAL NOTES

- CONNECTIONS FOR ELECTRICAL AND TELEPHONE UTILITIES ARE TO BE DETERMINED BY THE JURISDICTIONAL UTILITY COMPANIES.

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK PEPFORMED AND MATERIALS INSTALLED ITS STRICT CONFORMANCE, AS A MINAMINE STRICKARD, WHI ALL APPLICABLE COOTS, REGLARIONS AND CORDINANCES HANDED, JURISDICTION, LECTRICAL STRITMS SHALL BE RESTALLED IN COORDINATES HANDED, MISSIED COOT, AND ALL COMPRISIONAL AND STRIT JURISDICTIONAL COORS, ORD AND WITH LOCAL ULTIFT COMPANY PSEUDICKLINGS, MENORMER STRINGEN,

- THE CONTRACTOR SHALL PROVIDE A FULL (LATEST REVISION) SET OF CONSTRUCTION DRAWINGS ON-SITE DURING CONSTRUCTION, AND MARK ANY REVISIONS DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INSPECTIONS. (LOCAL, COUNTY, AND STATE) REQUIRED TO OBTAIN CERTIFICATE OF OCCUPANCY FROM THE LOCAL BUILDING DEPARTMENT.
- 13. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COOPDINATION ALL CONSTRUCTION SO-EDULES BETWEEN THEMSELVES AND SUB-CONTRACTORS TO AVOID ANY POSSIBLE DELAYS IN CONSTRUCTION.
- 14. ALL CONTRACTORS SHALL COMPLY WITH ALL OSHA REQUIREMENTS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL NOT SCHEDULE OR PERFORM ANY WORK WITHOUT APPROVAL FROM TOWER OWNER, LANGLORG, AND MERICIPALITY.

- 19. THE PROPOSED FACILITY WILL NOT GENERATE ANY NOISE, DUST, FUMES, ODORS OR VERRATIONS







MICHAEL McGOWAN

McGOWAN ENGINEERING

645 WESTWOOD AVE. RIVERVALE, NJ 07675

11.00	1404370	F. JUL 604	70:
Δ	103/14	FINAL	
Δ	9/24/14	FOR REVIEW	
REV	DATE	REVISION DESCRIPTION	

INDEX OF DRAWINGS

COMPOUND PLAN, ENLARGED PLATFORM PLAN

ANTENNA, RRH AND CABLE SPECS., ANTENNA CABLE CHART, BOM

A-2 ELEVATION, ENLARGED ANTENNA PLAN & MOUNTING DETAILS

A-4 FIBER CONNECTIVITY DETAILS

E-1 DC ELECTRIC DETAILS

GROUNDING AND WATERPROOFING DETAILS

T-1 | TITLE SHEET SP-1 SPECIFICATIONS

A-1A CABINET DETAILS

PL25XC017 (2.5 EQUIPMENT DEPLOYMENT)

600 E. PEAR STREET

VINELAND, NJ 08360 CUMBERLAND COUNTY

DRAWING TITLE

10/3/14

10/3/14

10/3/14

10/3/14

10/3/14

1 10/3/14

TITLE SHEET

DRAFTER:	AJ	SHEET
REVIEWER:	MM	Т
DATE	9/24/14	_

GENERAL REQUIREMENTS:

- 1. THESE SPECIFICATIONS AND CONSTRUCTION DRAWNESS ACCOMPANYING THEM DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION.
- THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY INCOSSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STPLIATED IN THE
- BE PURPOSE OF THE SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE AND QUALITY OF THE MATERIALS REQUIRED TO PURPOSE THE METHOD.
- 5. THE CONTINUEDUS SHALL BE RESPONSIBLE FOR VERFICATION OF ALL MEASUREMENTS AT THE SITE SETTING OFFICIAL MATERIALS OR DOWN ANY MORE, MO TATAL OWNERCH OR COMPRESSION SHALL BE ALLIED DOWNERCH OR SHOULD SHALL BE MATERIALS OF SHOULD SHALL BE ALLIED DOWNERS OF SHOULD SHALL BE ALLIED DOWNERS. THE SHALL BE ALLIED DOWNERS OF SHOULD SHALL BE SUBMITTOR TO THE OWNERS FOR CONCIDENTATION BEFORE THE CONTINUED PROCEEDING WITH MORE AN THE APPLICATION OF SHALL BE SUBMITTOR ON THE OWNERS FOR CONCIDENTATION BEFORE THE CONTINUED PROCEEDING.
- 6. THE BEDGER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPDISIATION BY REASON OF MAY MATTER OR THING CONCERNING WHICH SUCH BEDGER MIGHT HAVE FULLY ANTONING DEMISSILVES PRICE TO THE BEDGEN.
- NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR DIFFICULTES OR CONDITIONS THAT WAY BE DISCONDITIONED OR OF MAYY OTHER RELEVANT WATERS CONCERNING THE WORK TO BE PREFORMED IN THE CUSTOMER OF THE WORK WILL BE ACCIPTED AN AN LEXIST, FOR MAY FALLIER OR DIVISION ON THE PART OF THE CONTRACTOR TO TAIFFLE THEY DETAIL OF MILE THE REQUIREDURES OF THE CONTRACTOR TO TAIFFLE THEY DETAIL OF MIL THE REQUIREDURES OF THE CONTRACTOR TO CONTRACTOR TO TAIFFLE THEY DETAIL OF MIL THE REQUIREDURES OF THE CONTRACTOR TO CONTRACTOR.
- 8. CONTRACTOR SHALL AT THER OWN EXPLAIS CARRY AND MAINTAIN FOR THE DURA TION OF THE PRIDED ALL REGRANGE AS REGUINED AND LISTED AND SHALL BOT COMMENCE WITH THE ROOK UNIT. THEY HAVE PRESENTED AN ORGANAL CRITERICATE OF RESIDENCE STATING ALL COVERAGE'S TO THE OWNER, REJER TO DE MASTER ACCREDIANT FOR REQUIRED RESIZENCE LIBRIDS.
- 9. THE CHAFF SHALL BE NAMED AS AN ACCURONAL PISURED ON ALL POLICES.
- 10. CONTRACTOR MUST PROVIDE PROOF OF INSURANCE.
- GENERAL CARPENTRY, ELECTRICAL, AND ANTENNA DRAHBINGS ARE INTERRELATED IN PERFORMANCE OF THE WORK, THE CONTRACTOR MUST REFER TO ALL DRAHBINGS ALL COORCONATION TO BE THE EXPONENTED BY OF THE CONTRACTOR
- 12. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND LISTED IN THESE SPECIFICATIONS TO THE DIMER FOR APPROVAL.
- 13. ALL SHOP DRAWINGS SHALL BE REVENED, DIECKED AND CORRECTED BY CONTRACTOR PRIOR TO SUBJECTIVAL TO THE DWINGS.
- 14. RECLERED STATE AND FEDERAL APPROVAL HAVE BEEN CREAMED INCLUDING, BUT NOT LIBETED TO -DWA ASSESSOR
 - -CERTIFICATE OF OCCUPANCY
- 13. ANY DEFICIENCES THAT COME EMBERT DURING THIS ONE (1) YEAR PERSON SHALL BE CONTRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 16. THE CONTRACTOR SHILL CHARANTEE ALL LABOR AND MATERIALS USED IN THIS PROJECT FOR A MINISTRA PERCOD CHE (1) YEAR COMMENCING FROM THE DATE OF FINAL ACCEPTANCE BY THE CLUBS.

CONSTRUCTION SAFETY:

- AFFITION IS DIRECTLY TO TIETHAL SHALL AND LOCAL AND RUES AND RELIAXIONS CONCENNING CONTINUOUS AND RELIAXIONS AND RELIAXIONS AND RELIAXIONS AND CONTINUOUS CONTINUOUS AND CONTINUOUS CONTINUOUS AND CONTINUOUS CONTINUOUS AND CONTINUOUS CONTINUOU
- THE COMPAN CONTRACTOR MUST CONTRACTOR MUST COMPAN THE CHARLESS PRE APPROPED ROOTER THE COMPAN CONTRACTOR MUST COMPAN THE COMPARENT OF ALL PROPOSED AND EXCELLING MATERIALS AND DESIRE THAT ALL DESTING ROOT PARSANTES, IF ANY, EDMAN IN DITECT.
- 1 ALL PRECAUTIONS AND WEASURES WILL BE TAKEN TO INSURE THE SAFETY OF THE OCCUPANTS OF THE BUREDING AS WELL AS THE SAFETY OF THE PEDESTRIANS BELOW
- 4. BARROADES WILL BE EFECTED SEPARATING WORK AREAS FROM ALL PUBLIC SPACES AS MEEDED
- 5. MI FIRE AND OTHER RECURED EXIS, WAY OF APPROACH THERE TO AND WAY OF TRAVEL FROM THE EXIT TO THE STREET SHALL BE CONTINUOUSLY MAINTAINED FIRE FOR UNCESTRUCTED EXPESS
- 8. PROMOE A PORTABLE FIRE EXTINGUISHER(S) WITH A RATING NOT LESS THAN 2-A OR 2-A1080 WITHIN 75FT OF ALL PORTIONS OF THE WORK AREA.

SPRINT METHOD OF PROCEDURE:

- CONTRACTOR SHALL PERFORM WORK AS DESCRIBED IN
- A. COAX COLOR COOMS SWEEPS AND FEET TESTING 15-0200 AND EL-0268, LATEST REVISIONS.
- C. ALL APPLICABLE INSTALLATION METHOD OF PROCEDURES IDENTIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS.
- COMPANY FURNISHED MATERIAL AND ECUPMENT IS IDENTIFIED ON THE SPRINT RF DATE SHEET. CONTRACTOR IS RESPONDED FOR DESTANDING THE FRAIL RFDS FROM SPRINT.
- 3. CONTRACTOR IS RESPONSIBLE FOR SPRINT PROVIDED MATERIAL AND EQUIPMENT TO ENSURE IT IS PROTECTED AND HANGLES PROPERLY THROUGHOUT THE CONSTRUCTION DURATION

SUBMITTALS & TESTS:

- AT HE COMPANY'S RECUEST, MAY ALTERNATIVES TO THE MATURALS OF METHODS SPECIFED SHALL BE SIMMSTED TO SPREAT'S CONSTRUCTION UNMARKED FOR APPROVAL. SPREAT WILL REVIEW MOVED COLVEY THOSE RECUESTS MADE A METHOD. MO METHOR APPROVALS MILL DE CONCESSION OF A METHOD MOVED APPROVALS MILL DE
- 2. THE CONTRACTOR SHALL BE RESPONSELE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND
- 3 CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING A. COAX SWEEPS AND FIDER TESTS PER CURRENT VERSION TS-0200 ANTENNA LINE ACCEPTANCE STANDARDS
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK DOUTPED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/OR AS A RESULT OF
- REGURED CLOSEOUT DOCLMENTATION INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING
- A AZMUTH, DOWNTH, AGL FROM SUMSIGHT INSTRUMENTS ANTENNALIGN AUGMAENT FOOL
- C. SCALABLE BARCODE PHOTOCRAPHS OF TOWER TOP AND WACCESSIBLE SERIALIZED EQUIPMENT.
- D. ALL AVAILABLE JURISCICTIONAL PERMIT AND OCCUPANCY INFORMATION
- F. A PDF SCAN OF REDUNE MARK-UPS SUITABLE FOR USE IN ELECTRONIC AS-BULL DRAWING PRODUCTION.
- H. FRAL PAYMENT APPLICATION
- I REQUIRED FINAL CONSTRUCTION PHOTOS.
- A CONSTRUCTION AND COMMISSIONING CHECKLIST COMPLETE WITH NO DEFICENT HEMS.
- K. APPLICABLE POST NIP TASKS INCLIDING DOCUMENT UPLOADS COMPLETED IN SITEPRA

ANTENNA, RRU, HYBRID/"FIBER ONLY" CABLE:

- COMPACTOR IS RESPONSIBLE TO MISSIRE THEY HAVE THE LATEST VERSION OF THE SPRINT RADIO THE SPRINT ON A SPECIF THERE ARE ANY DESCRIPTIONESS BY USEN THE RESPONSIBLE OF THE AND THE ECONOMIST ON CHARGOS, ONE-PROCEDURES AMERICATELY MOSTLY SPRINT CONSTRUCTION MANAGER.
- 2. ANTENNAS AND RRIFS SHALL DE DISTALLED AS PER CONSTRUCTION DRAWINGS.
- CONTRACTOR SHALL ASSENCE ALL WITHHAS OFFITE M ACCORDANCE WITH THE RETRUCTIONS EMPIRED BY THE MARKET ALTERNATION AND MEDIAL ACCORDANCE ORGANIZATION BY COMPATION SHALL BE AS DESCRIPTED ON THE CONSTRUCTION DRAWNESS. SPRINT NTDS SHALL OVERFIELD CONSTRUCTION DRAWNESS.
- CONTRACTOR SHALL PROVIDE ANTENNA MICHINING HARDWARE AS INDICATED ON THE

SPECIAL CONSTRUCTION REQUIREMENTS:

- CORRAL CONTRACTOR TO FRED VERY AZUUM AND CENTE LISE HOOM AND SECONDAL DOWNERS. FOR PUTERON HOW CALLED OUT ON 1975 AND ON CONTRACTOR CONCERNMENT. FOR PUTERON HOW CALLED OUT ON 1975 AND ON CONTRACTOR CONCERNMENT OF THE PUTERON COSTS NOT ARREST, BUT STELL LIST, A MISSAGE TO SEE DOWNERS FOR CONTRACTOR SETS NOT RESPOND WHICH ONE AREA SECONDAL CONTRACTOR OF RESPOND WHICH CONTRACT CONTRACTOR ALL CONTRACTOR OF A LESSON OF THOSE WITHOUT AND CONTRACTOR CONTRACTOR OF THE CONTRACTOR CONTRACTOR OF THE CONTRACTOR C
- B. ASSI TESTS TO VERFY OPERATOR IS TO BE PERFORMED AFTER FAM, INSTALLATION OF ANTHRINGS AND ASSI CARLES HAVE DEED COMMETTED. VERFY OPERATOR OF ALL DESTING SPHMI ASSI COMPANIN INCLUMENCE RESIDENCE WOOM AND 2500C. TISTS SHOULD COMPATE COMMET, AZEADED (F. APPLICABLE) AND BEAMSON SPHICE (F. APPLICABLE) DOCUMENT ASSI SET SETS OF OCCUPANT TEST SPERADORS.
- D. CEMERAL CONTRACT IS REQUESTED TO USE A DICTAL ALCOMENT TOCK. TO SET AZMILTH, BOLL, AND DOWNIELT. AZMINTH ACCURACY IS TO BE WITHIN 1 SECREE. DOWNER, YAND BOLL (LEFT TO ROUTH ER! TO DIE WITHIN OIL DECREES. FOR SOME HEADON HAS ACCURACY CLINIOTS OF ACHIVED, UPDATE AS—BUT TO MARKES AND THAN EPHON HEY DECREASE WHY AS—BUT SETTINGS. USE IZ N°A ALIGNANT TOCK OR APPROVED COLAN

HYBRID / "FIBER ONLY" CABLES:

- CONTRACTOR SHALL PROVIDE ANTENNA MOUNTING HARDWARE AS INDICATED ON THE CONSTRUCTION DRAWMER.
- CONTRACTOR SHALL ROUTE, TEST, AND DISTALL ALL CABLES AS DESCATED ON THE CONSTRUCTION DRAWINGS AND IN ACCOMPANCE WITH THE WARMFACTURED'S RECOMMENDATIONS.
- THE HISTALLED RADIUS OF THE CABLES SHALL NOT BE LESS THAN THE MANUFACTURER'S SPECIFICATIONS FOR REDGING RADIO.
- EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE CABLES DURING HANGLING AND DISTANT ATOM
- S. FASTING MAN CARLES ALL CARLES SHALL BE HISTALLED WITH CARLE SUPPORT CROPS AS REQUIRED BY THE MANUFACTURES.
- FIRER BUNCLES ABOVE BREAKOUT SHALL BE SUPPORTED USING A VOLCHO STRAPS OF THE REQUIRED LENGTH AT HE OC. STRAPS SHALL BE UV. CIL, AND WATER RESISTANT AND SUTABLE
- DC BUNCLES ABOVE BREAKOUT SHALL BE SUPPORTED WITH UP THE OF THE ACEQUATE LENGTH.

 2P THE TO BE UV STABULIED, BLACK WALON, WITH TENGLE STRINGTH OF 12,000 PSI
- B. CABLE JAMPERS SHALL BE SUPPORTED TO SIDE ARMS OR HEAD FRAMES USING STANCESS STED. THE WARPS OR STANCESS STED. SUFFERNITY CLIPS.
- ----
- A. CONTRACTOR SHALL RESPECT CASLE PRIOR TO USE FOR SHIPPING DAMAGE, AND HOTEY SPRINT CONSTRUCTION MANAGER IF ANY DAMAGE IS COSERVED.
- & CABLE ROUTING/RISTALLATION SHALL BE PLANNED TO ENSURE THAT THE EMES WILL BE PROPERLY REUTED IN THE CABLE ENVELOPE AS INDICATED ON THE DRAININGS, AND SHALL AUTO. THE THE ADMINISTRATION CONTINUES.
- C. HOIST CABLE USING PROPER HOISTING CRPS. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM MEND RADRIES.
- D TRANSMISSION UNES SHALL BE GROUNDED AS MORCATED ON the DRAMMICS

- A. ALL HYDROL FROM CARLES, CONNECTORS, AND GROUND KITS SHALL BE WEATHER PROOFED.
- 8 CONTRACTOR MAY USE (SINER OF THE TWO STANDARD INDUSTRY PRACTICED MEANINEMED HER PROCESS BUT MUST BE CONSISTENT WITH ONE METHOD THROUGHOUTHE ENTRE PROJECT.
- D. SELF-AMALEMATING TAPE: CLEAN SURFACES. APPLY A DOUBLE WRAP OF SELF-AMALEMATING TAPE. IT BEYONG CORNELIOR: APPLY DOUBLE WRAP OF 25 MICH MALEMATING TAPE IN CPPOSITE DIRECTION: APPLY DOUBLE WRAP OF 25 MICH LILLETINGAL TAPE
- E. OPEN FLAME ON JOB SITE IS NOT ACCEPTABLE

GROUNDING:

- WIEN DESIGNING A GROUNDING SYSTEM FOR A MODILE RADIO FACALITY THERE ARE FOUR INTERRITATED AREAS OF CONCERN. THE BASIC OBJECTIVE FOR FACH IS.
- A LIGHTHING PROTECTION-TO MAINTAIN ALL EGAPMENT AT THE SAME POTENTIAL DURING A
- B. RFI FOR NOISE MOUCTION CONTROL-TO ESTABLISH THE LOWEST POSSIBLE IMPEDANCE AMONG ALL EQUIPMENT.
- C. ELECTROSTATIC CONTROL-TO REDUCE ELECTROSTATIC DISCHARGE PROBLEMS. D. PERSONNEL SAFETY-TO MAINTAIN A MARIARM VOLTAGE CAPTERENCE BETWEEN ANY TWO METALLIC COLECTS WHICH PERSONNEL MICHT CONTACT SMALTANEOUSLY.
- IT IS IMPORTANT THAT THE CHOUNDING CONDUCTORS OF AS STRAIGHT AS POSSIBLE, WITH NO TURN OR BEIND SHORTER THAN ONE FOOT RADIUS WITH A THREE FOOT RADIUS PREFERRED. NO RICHI ANAGE ON SHAPP BEINGS SHALL & ALLOWING.
- ALL MARY ASS REGARDS RESPENDED PRICES TO SOURCE OF CITIES COLUMN ON FASTDERS.

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 LIEU TARREST REGARDS RESPENDED TO SOURCE COLUMN OF CITIES COLU
- 5 CONNECTIONS TO GROUND BARS EXCEPT WHERE MOTED ON THE DRAWNGS SHALL BE THO HOLE LUG. B. IF NOT EXISTING, NOWE RUN CROUND SHALL BE 42 SOLID THREE BARE COPPER WARE, AND CADWILD COMMICTION TO ALL CROUND BARS.
- SZ ANG, MERIARID SINANCED COPPER CAME IS ACCEPTABLE FOR INTERIOR CROUND WAR CONDUCTORS ON TENANT IMPROVEMENT SITES.
- B ALL CROUNDING CONCLUTORS SHALL BE ALONG THE SHORTEST AND NEATEST PARK POSSIBLE AS NOT TO MITERITIES WITH ANY DESTRUC COMPANIE.
- 8 OO NOT ALLOW BARE COPPER WISE IN CONTACT WITH GALVANIZED STED.
- 10. CICCE BOOKSTING COMPOUND SHALL BE APPLIED TO ALL COMPRESSION TYPE AND TWO HOLE LLIC CRICIAD COMMECTIONS.
- 11. ALL CHOUND WHEE FROM ECOPHIEN LOCATED AT THE SPRINT CONCRETE PAD SHALL BE ENCASED WITH \$" PVC CONDUST BEFORE DISTRING CRACE LEVEL, AND SEALED WITH SECON
- 12. ALL CABLE BRIDGE SECTIONS SMALL BE CROUNDED WA TWO HOLE LIG TYPE CONNECTION WITH AN COPPER STRANCED WINE WITH CREEN INCREASED.
- 13 ALL COMMECTIONS AT CROUND BARS SHALL BE IN A MEAT AND CONSECUTIVE ORDER
- 14. GROUNDING CONNECTIONS SHALL NOT BE INSTALLED ON ROUTED THROUGH HOLES IN ANY METAL CRUCKS LIMES IN MODERN Y STEEM 2 WITH PAC CONCESS.
- 15. HETAL WAY CLIPS ARE PROMOTED USE PLASTIC WAY CLIPS ON Y.
- 14. CROUNDING CONNECTION TO THE EQUIPMENT CARMETS SHALL BE MADE BY CONNECTING THE CROUND WIRE FROM THE BUSS BAR IN THE CARMETS TO THE GROUND ROLE.
- 17. IF APPLICABLE, CONTRACTOR SHALL PHOTOGRAPH GROUND RING AND ALL CADWELDS PROR TO BACKEL AND PROVICE PHOTOS TO SPENT PROJECT MANAGER.
- 18 MAY CHANCES TO GROUNDING SPECIFICATIONS WAST BE RELAYED TO AND APPROVED BY ENGINEER
- 18. OFDIRED SYSTEM SHALL HAVE A RESISTANCE RATING OF 5 DINS OF LESS CONTRACTOR SHALL SUBMIT FROM TESTING REPORTS TO CHRON PROJECT MANAGER
- 20. Bet Grounding system has been designed to general impeless tilecom specifications, and additional electi specific reguneracits shall be coordinated between the contractor and specific request immedia

- ALL LIECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS
 NEC, AND ALL APPLICABLE CODES.
- 2 CONDUST ROUTINGS ARE SCHEMARC CONTRACTOR SHALL INSTALL CONDUSTS SO THAT ACCESS TO EXISTING AND PROPOSED EQUIPMENT S NOT BLOCKED.
- 3 EACH END OF EVERY POWER, CHOINDING, AND TH CONDUCTOR AND CARLE SHALL BE LABRED WITH COLOR COCOD INSLATION OR ELECTRICAL TAPE (SH DRAWD, §* PLASTIC ELECTRICAL TAPE WITH OF MICHIGAN OR EQUAL). THE ODITIFICATION METHOD SHALL COLFORN WITH THE NEC AND COOK RECURSIONALS.
- 4 POWER PHASE CONDUCTORS SHALL WE LAWLED WITH COLOR COOLD RIGILATION OR ELECTRICAL THREE PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND COMA PROLEMENTAL THREE PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND COMA
- 5 ALL EQUIPMENT SHALL BE LABILED WITH THEIR VOLTAGE RATING, PHASE CONTIQUIRATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CRICAT ID INSMERS.
- 9. PANEL BOARDS AND INTERNAL ORGAN DREAKERS SHALL BE CLEARLY LABELED.
- 7 ELECTRICAL METALLIC TUDING (EMT) OR RIGID HONNETALLIC CONDURT SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- B DECIRCAL METALLIC TUBING (DMT), ELECTRICAL NON METALLIC TUBING (DMT), OR RODD NON METALLIC CONOUNT SHALL BE USED FOR CONCEALED MODOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUST (INC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE
- RIGID HON METALLIC CONDUIT SHALL BE USED UNDERCROUND, DIRECT BLIBED, IN AREAS OF COCASIONAL UNIT VEHICLE TRAFFIC OF ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY MEMOLE TRAFFIC.
- 11. LICLED-THE FLEXIBLE WETALLIC CONDUST SHALL SE USED MEDICAS AND OUTDOORS WHERE WESTATION OCCURS AND FLEXIBLITY IS METICAL. 12 CONDUIT AND THENCE STATE BE THREADED OR COMPRESSION TYPE AND APPROVED TOR THE LOCATION USED.
- 13 WREWAYS SHALL BE EPCIY COATED AND HIGHDE A HINGED COVER, DESCRIED TO SHING OPEN-DOWNAMIO, SHALL BE PANDAT TYPE E (OR EQUAL), AND RATED MEMA 1 (OR OFTER) ADDORS, OR MEMA 3H (OR METINE) OUTDOODS:
- 14 COUPMENT CARMETS, TERMINAL BOXES, AMOTION BOXES, AND PULL BOXES DIALL BE CALVANIZED OF EPOXY COATED SHEET STEEL, SHALL MEET OF EXCELD US 50, AND RATED HEAR STOR BELLEY DEPOXYS, OR HELM AN FOR BELLEY DUTDOORS.
- 13. METAL RECEPTACES, SWITCH, AND DEWCE BOXES SHALL BE GALVANIZED, FPORY COATED, OR MON-CORRORAD, SHALL MEET OR EXCEED US. SHAL AND NEMA OS 1; AND RATED HEMA 1 (OR EXTENT) NUMBER OF STATES PROCESS. OR WEATHER PROTECTED (APP OR BETTERS) NUMBER OF STATES OF STATES.
- 16 NOW METALLIC MECUPTACLE, SWITCH, AND DEVICE SCREE SHALL MEET OR EXCLED MEMA OS 2.
 AND RATED MEMA 1 OR SETTER (NEDGORS) OR MEATHER PROTECTED (MP OR SETTER) CUIDCORS
- 17. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY AUTHORIZATIONS AND PERMITS REFORE COMMINGS OF FUTBOLIAL WORK
- 18. CONTRACTOR SHALL PROVIDE NECESSARY TAGONG OF THE BREAKERS, CABLES, DISTRIBUTION PARELS. IN ACCORDANCE WITH THE APPLICABLE COOLS AND STANDARDS TO SAFEGUARD AGAINST LEFE AND REPORTEY.





THE SE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 23'45". IF DRAWINGS ARE 11'41" THEY ARE TO BE CONSIDERED MAJE SCALE AS INDICATED ON THE BAR SCALE BELOW EACH DRAWING COMPONENT.



MICHAEL McGOWAN ROFESSIONAL ENGINEE LICENSE NO. 40097

McGOWAN **ENGINEERING** 645 WESTWOOD AVE. RIVERVALE, NJ 07675

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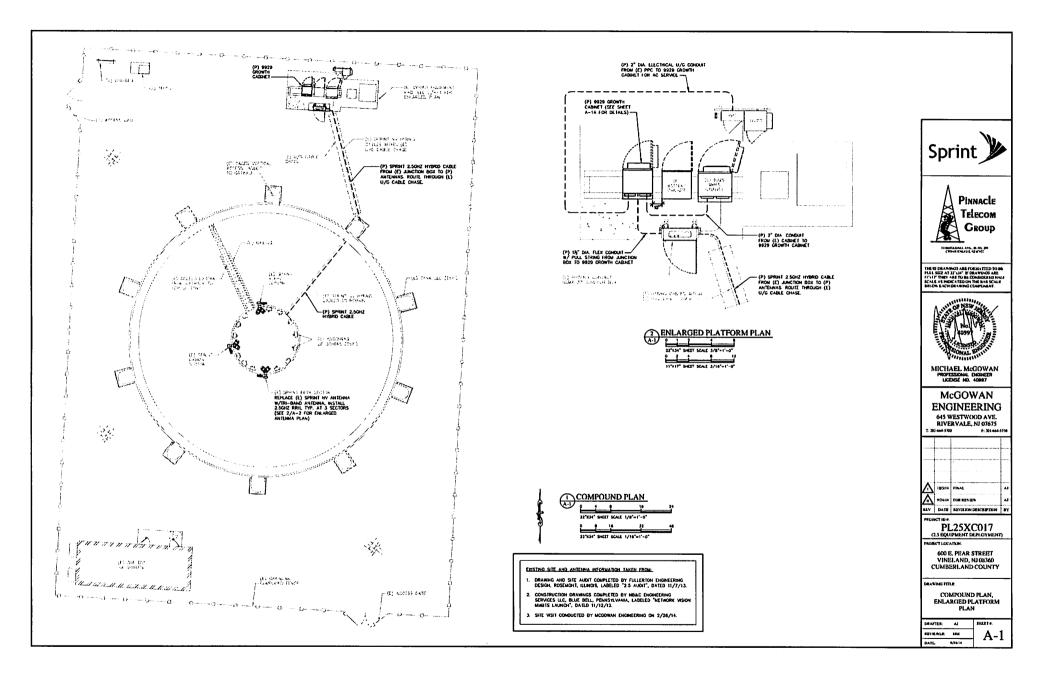
PL25XC017

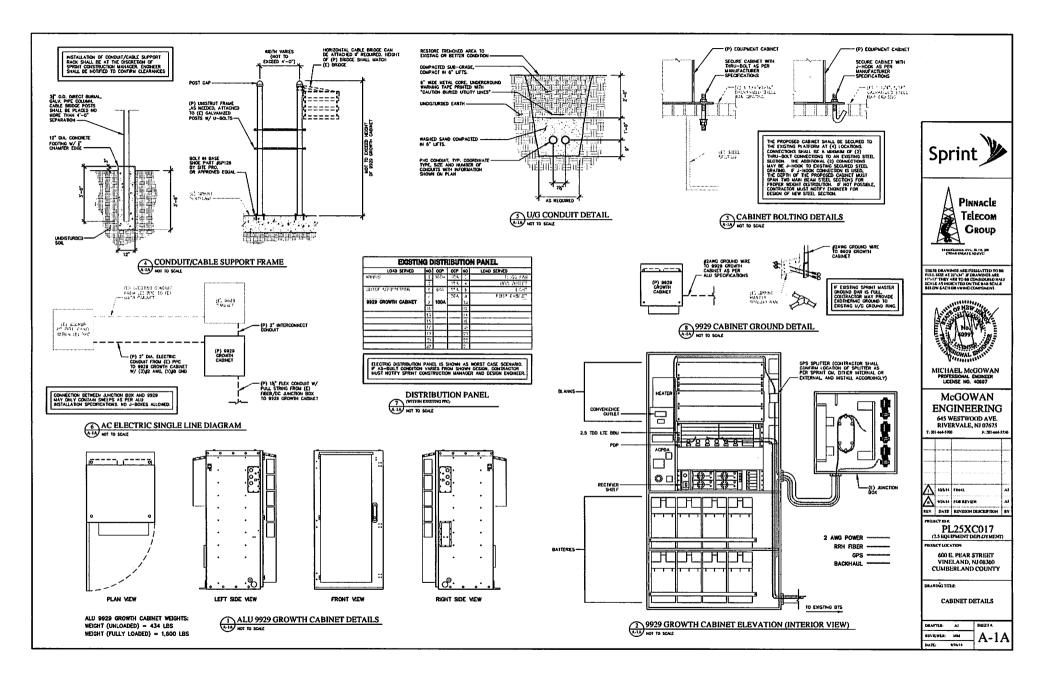
600 E. PEAR STREET VINELAND, NJ 08360 CUMBERLAND COUNTY

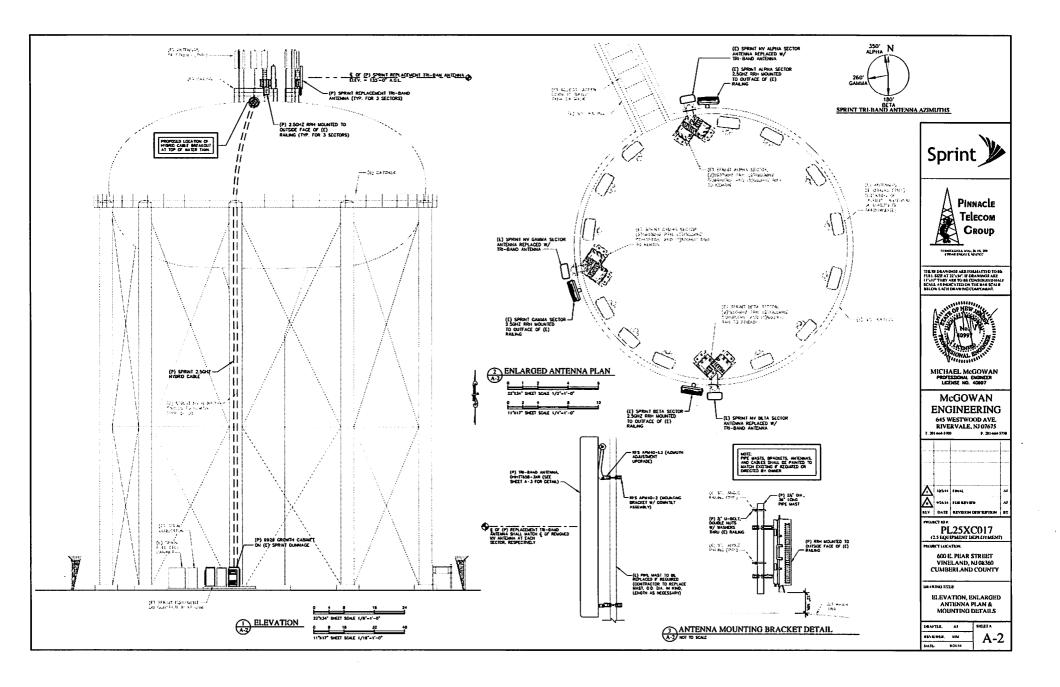
SPECIFICATIONS

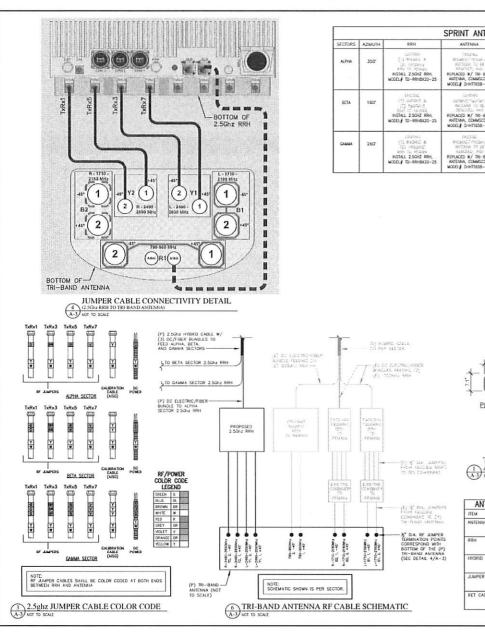
DRAFTER SHET! KINEWER MM

SP-1

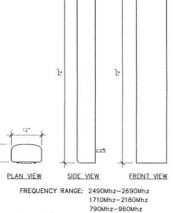








SECTORS	AZIMUTH	RRH	ANTENNA	MECHANICAL DT	ELECTRICAL DT	CABLE	COLOR CODE	CABLE
ALPHA	350"	DATES () BYLLING 4 (2) BYLLING 4 (2) BYLLING 4 (2) TO PERSON 1 BYLLING 25042 RIPK, MODEL # TO-RESEX20-25	PC469/19/C46-1 HTC469/19/C46-1 HTC469/19/C46-1 HTC469/19/C46-1 HTC469/19/HTC46/HTC46/HTC46/HTC46/HTC46/HTC46/HTC46/HTC46/HTC46/H	σ	-2	LDS:NO. HT:002 (AME TEEDED 11/20/2004 NO- & 72/10/00/47 RON- TL. ARUPAL NSTALL (1) NOW HT:000 CARLE TO FEED NEW 2.5G/47 RON- AT ALL SECTIONS	(NEW HYBRID CABLE COLOR CODE TBD)	
BETA	180*	DETEC (1) AND 2 4 (2) SAMPL BOT IC NUMBEL INSTALL 2.5G/2 RPH, MODEL # TD-RPHBX20-25	CONTROL CONTRO	or .	-7	DATES HOREL SELLOS (1957ANZ PRO- A (2) PROMIE PRO- NSTALL (1) NEW HORBO CABLE TO FEED NEW 25GHZ PRH AT ALL SECTORS	(NEW HYBRID CASLE COLOR CODE TBD)	220FT±
CAMMA	260	(25 fee) (1) 80.540.2 at (22 fee)2442 (34 fee) 80.949 (45 fee) 80.949 (45 fee) 80.949 (46 fee)	PETING RESIDENCE TO SE ALBERTA ATT REPLACED W/ TRI-BAND ANTENNA, COMMSCOPE MODEL / DHHTTESS-SIR	σ	-2	ENGINE PRISED CASE FERRING (1) SUSSEL AND E (2) FOLDER FOR TO SERVE, NSTALL (1) NEW HYBRO CARE TO FEED NEW 2-504Z RISH AT ALL SECTORS	1 DILLER (NEW HYBRID CABLE CDLOR CODE TBD)	



ANTENNA DETAIL (DHHTT65B-3XR)

WEIGHT: 48.5 LBS

ITEM	QUANTITY/LENGT		
ANTENNA	RFS APXVTW14-C-I20	3	
RRH	ALCATEL LUCENT TD-RRH6X20-25	3	
IMBRID CABLE	RFS HB114-13U3M12-225F	1 / 225FT	
JUMPER CABLE	RFS LCF12-50J (CONNECTORS PRE-INSTALLED BY MANUFACTURER)	15 / BFT	
RET CABLE	COMMSCOPE ATCH-BO1-005 (CONNECTORS PRE-INSTALLED BY MANUFACTURER)	3 / eFT	

REAR VIEW





CPDAR ENGLIS NO 6/97:

THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 22"x34". IF DRAWINGS ARE IT 13 IT THEY ARE TO BE CONSIDERED HALF SCALE AS INDICATED ON THE BAR SCALE BELOW EACH DRAWING COMPONENT.



MICHAEL McGOWAN PROFESSIONAL ENGINEER LICENSE NO. 40997

McGOWAN **ENGINEERING**

645 WESTWOOD AVE. RIVERVALE, NJ 07675

1:30	1464-570	F: 201 464	5750
Δ	10/3/14	FINAL	AJ
1	9/24/14	FOR REVIEW	AJ
REV.	DATE	REVISION DESCRIPTION	В
PROI	er in e		

PL25XC017

600 E. PEAR STREET VINELAND, NJ 08360

CUMBERLAND COUNTY

ANTENNA, CABLE & RRH SPECS, ANTENNA CABLE CHART, DETAILS

DRAFTER:	AJ	SHEET 4:
REVIEWER:	мм	Α_
KEVIEWEK:	MM	A-

DESCRIPTION/ MODEL #	QUANTITY/LENGTH	92		
RFS APXVTM14-C-120	3	ASSEMBLY LENGTH	MODEL NUMBER	DESCRIPTION
ALCATEL LUCENT	3	200 FF	HH114-1307M12-2308	JOS BADO DO 1889 MILTI-DOI 1001 3 MOS CONNECTION, BUTT
TD-RRH6X20-25		225 FT	HB114-13U3M12-225F	3PR 6AWG DC, 18PR MULTI-MOD TOP: 3 MPO CONNECTORS, BOTT
RFS HB114-13U3M12-225F	1 / 225FT	250 77	HB:14- 302M12-250F	3PA DANG DE 1EPR MULTI-MOI 15SH 3 MPM EGNAFOTORS, BOTT
RFS LCF12-50J	15 / BFT	275 87	348114-1303819-175F	ter sauc or, tare warti-wor tot. I site consectors: soil
(CONNECTORS PRE-INSTALLED BY MANUFACTURER)		Too FT	HELLY-13/GRID-1005	JITP UKBY DO, 18FN MULTI-NOS TOP- 3 GRO CONNECTORS, BOST
COMMSCOPE ATCB-B01-006 (CONNECTORS PRE-INSTALLED BY MANUFACTURER)	3 / BFT		€ HYRR	ID CABLE DETAIL

PLAN VIEW

SIDE VIEW

WEIGHT: 66 LBS

2 RRH DETAIL (TD-RRH8X20-25)

