Sprint

CONSTRUCTION SET

PROJECT:

DO MACRO

SITE NAME:

NY13/366 CAC

SITE CASCADE:

AL43XC750

CROWN BUN:

SITE ADDRESS:

803589 195 1397 DRYDEN ROAD ITHACA, NY 14850

SITE TYPE:

125'-0" MONOPOLE

REPARED FOR A

PROPERTY OWNER:
CHOWN ATLANTIC COMPANY LLC
SSG PINETOWN ROAD, SUITE 316
FORT WASHINGTON, PA 19034

TOWER OWNER:
CROWN ATLANTIC COMPANY LLC
650 PIMETOWN ROAD, SUITE 316
FORT WASHINGTON, PA 19034

N 41" 50" 26.5" (NAD83):

ZONING JURISDICTION: VILLAGE OF HANCOCK

COUNTY: DELAWARE COUNTY LONGITUDE (NAD83): W 75" 15" 4.0" (NAD83) APPLICANT:
SPRINT
6580 SPRINT PARKWAY
OVERLAND PARK, KS 66251

Xtore what's believe Call betting you dig.	A, MPA / Mo - LUHINUM PROTECTION CODE A, MRATONAL ELECTRICAL CODE A, MATONAL ELECTRICAL CODE	1. INTERNATIONAL BUILDING CODE, 2015 EDITION 2. INTERNATIONAL MICHANICAL CODE, 2015 EDITION 1. ANSI ELATIA-SE STRUCTURAL STANDARD	ALL WORK SHALL BE PERFORMED AND MAISHALS INSTALL IN ACCOMPANIES WITH THE CLARENT ENTITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITES, NOTHING IN THESE PLAYS IS TO BE CONSTRUED TO PERMIT WORK NOT CONTORMING TO THESE CODES.		APPLICABLE CODES		RELOCATING IS) RRYS FROM GROUND TO TOWER TOP TO THE SUSTING WIRELESS TELECOMMUNICATIONS FACILITY	PROPOSED PANEL, ANTINNAS, (9) PROPOSED RAMS, (3)	PROJECT CONSISTS OF REMOVING (3) EXISTING PANEL	SCOPE OF WORK		an average of one thip per month	APPLICANT'S MAINTENANCE CHEW (TYPICALLY ON PERSON) WILL MAKE	 NO WASTE WATER WILL BE GENERATED AT THIS LOCATION 	 NO POTABLE WATER SUPPLY IS TO BE PROVIDED TO THIS SITE 	TELECOMMUNICATIONS FACILITY	THIS IS A MODIFICATION TO AN EXISTING UNMANNED	PROJECT DESCRIPTION
	IN TAKED IT HAT ONTO USE SEST 1. TURN LETT ONTO ONTO USE SEST 2. TURN INDIATY ONTO SHERWOOD CHIVIE 13. MERGE ONTO DAY 17 SOLITH 14. DAGNET ENTO ONTO SHERWOOD CHIVIE 15. JURNET MET ONTO SHERWOOD CHIVIE 15. JURNET MET ONTO SHERWOOD CHIVIE 15. JURNET RESERVED.	TAKE EDIT #817 DI GERGE OND 1 GERGE TAKE EDIT #817 DI GERGE OND 1 GERGE OND DI SORINI TAKE EDIT #115 NOWARD SCHANTON SCHORT #115 NOWARD SCHANTON SCHANTON THE SCHANTON THE STATE STATE SCHANTON THE SCHANTON THE STATE	1. GET OM MAS SIGNEDIMATION FROM PAATZ LISTINEET NO 2. HEAD SOUTHEAST 1. TURN RIGHT OMO PAATZ WEST 4. KEEP LEFT TO MERGE ONTO US-1 NORTH	START: 3229 STREET RD , BENSALEM, PA 19220	DIFIECTIONS			E-2 GROUND DETAILS AND NOTES	E-1 ELECTRICAL ONE-LINE DIAGRAM AND DETAILS	\perp	A-4 CABINET DETAILS AND ANTENNA SCHEDULE	A-2 ELEVATIONS	A-1 COMPOUND PLANS AND NOTES	Ľ	SP-1 CONSTRUCTION SPECIFICATIONS	T-1 TITLE SHEET	DWG # DRAWING TITLE	DRAWING SCHEDULE
DATE: 1200/17 SPARE: DOWNLIST: SHEET 8: CHECKED 30': PROJECT PRO	IIILE SHEET	THACA, NY 14850 TOMPKINS COUNTY	AL43XC750 .1387 DRYDEN ROAD	NY13/366 CAC		THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SQLE PROPERTY OF SPRINT AND MAY NOT BE REPROJUCED, DISSEMINATED OR REDISTRIBUTED MITHOUT THE EXPRESS WATTEN CONSENT OF SPRINT.	IF THIS DOCUMENT DOES NOT CONTAIN THE RAUSED SEA OF THE UNDERSCIONED PROFESSIONAL, IT IS NOT A VALID DOCUMENT AND NO LUBILITY IS ASSUMED FOR THE INFORMATION SHOWN HEREON.	ON ANY OTHER FORMAT	THIS COCUMENT HAS BEEN PREPARED FOR A	NOTES:						I 44/24/58 BELOT AS NEK	O 0/3//A deep for many	200







SECTION 01 100 - SCOPE OF WORK

HE WORK HALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LAYEST EDITION, AND PORTIONS THEREOF.

RESIDENCE, NOUL DOWNLOTS OCCUP BETWEEN THE STANDARD CONSTRUCTION SPECIFICATIONS FOR HIRLESSS SITES INCLUDING THE STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND THE PRECIDENCE.

-MARILANTY. TRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMBELF WITH ALL CONTRACT UMENTS, FIELD CONDITIONS AND CHRONIONS PRIOR TO PROCEEDING WITH CONSTRUCTION

THE SUPERVISION.

THE SUPERVISION.

STRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE
THE CONTRACTOR COLLECTS.

MINNOS, RIFICIFICATIONS AND DETAILS REQUIRED AY JOSSITS: CONSTRUCTION CONTRACTOR SPALL MANITAM A FILL SET OF THE CONSTRUCTION DRAYINGS THE JOSSITS FROM MODILIZATION THROUGH CONSTRUCTION COMPLETION. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROVIDE A COMPLET AND FUNCTIONING SYSTEEL MODIFICATIONS MAY DE REQUIRED TO SUIT (DO DAIRESCANS) ON CONDITIONS, AND BUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.

CONTRACTOR SHALL NOTIFY SPRINT CONSTRUCTION MANAGES OF ANY VARIATIONS PRIOR TO PROCEEDING WITH THE WORKCHIKANGES SHOWN ARE TO PRIVE BURDENGES OR WOTER OF THE WORK OF THE WORK HOUSE SHOWN ARE TO PRIVE DEMENSIORS OR CONDITIONE, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK. MARK THE FIELD SET OF DRAWINGS IN RED, DOCUMENTING ANY CHANGES FROM THE CONSTRUCTION DOCUMENTS.

<u>METHODS OF PROCEDURE (MOPS) FOR CONSTRUCTION:</u> CONTRACTOR SHALL PERFORM WORK AS DESCRIBEO IN

- COAX COLOR CODING SWEEPS AND FIBER TEATING TS-0200 AND EL-0568
- CABLE LABELIKG EN-2012-00
- APPLICABLE INSTALLATION MOPS IDENTIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS

SECTION OT 200 - COMPANY FURNISHED MATERIAL AND EQUIPMENT
COMPANY FURNISHED MATERIAL AND EQUIPMENT IS DEVITIBED ON THE REDATA SHEET IN THE
CONSTRUCTION DEAVINGG.

TRACTOR IS RESPONSIBLE FOR SPRINT PROVIDED MATERIAL AND EQUIPMENT TO ENSUITE IT IS TRECTED AND HANDLED PROPERLY THROUGHOUT THE CONSTRUCTION DURATION.

ONTRACTOR RESPONSIBLE POR RECEIPTOF SPRINT FURNISHED EQUIPMENT AT CELL. SITE OR ONTRACTORE LOCATION. CONTRACTOR TO COMPLETE SHIPPING AND RECEIPT DOCUMENTATION JACKORDANCE WITH COMPANY PRACTICE.

SECTION 01 300 - CELL SITE CONSTRUCTION
NOTICE TO PROCEED:
NO WORK SHALL COMMENCE PRICE TO COMPANYS WRITTEN NOTICE TO PROCEED AND THE
NSSLANCE OF WORK ORDER.

<u>CLEANINGERS.</u> TRACTOR SMAL KEEP THE SITE PREE PROD ACCUMULATING WASTE WATERIAL, DEBRIS, AND TRACTOR SMAL KEEP THE SITE WORK, CONTRACTOR SMALL REMOVE FROM THE BITE ALL MIKING RUBBISH, IMPLEMENTS, TEMPORRAY FACILITIES, AND SHIPPLIS MATERIALS.

SECTION OF 400 - SUBMITTALS & TESTS

ALTERMATES.
ATTHE COMPRINTS REQUEST, ANY ALTERNATIVES TO THE MATURALS OR METHODS SPECIFIC STRALL RE COMPRINTS. DEPOSITE CONSTRUCTION MANAGER FOR A POPICHAL, EPORNY WILL REMAIN AND APPROVAL SYNT.
AND APPROVED ONLYTHOSE REQUESTS MADE IN WINTLING, NO VERBAL APPROVALS WILL RECAMBLE FOR MADE IN MADE IN MADE APPROVALS WILL RECAMBLE FOR MADE IN MADE IN MADE APPROVALS WILL RECAMBLE FOR MADE IN MADE APPROVALS WILL RECAMBLE FOR MADE IN MADE APPROVALS WILL RECAMBLE FOR MADE APPROVALS WILL RECAMBLE FOR

TESTS AND INSPECTIONS:

the contractor shall be responsible for all construction tests, inspections and priciedt documentation.

CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- COAX SWEEPS AND FIBER TESTS PER TS-0000 (LATEST REVISION) ANTENNA LINE ACCEPTANCE STANDARDS.
- AGI, AZIMUTH AND DOWNTILT PROVIDE AN AUTOMATED REPORT UPLOADED TO SITERRA
 USING A COMMERCIAL MAGE-POR THE PURPOSE ELECTRONIC ANTENNA ALICANIENT YOOL
 (AAT), NISTALLED ACHT.; CENTERLINE AND DOWNTILT MUST CONTONIA WITH RE
 CONFIGURATION DATA

- COMPRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/OR AS A RESULT OF TESTING.
- 4. ALL TESTING REQUIRED BY APPLICABLE INSTALLATION MOPS
- required closeout documentation includes, but is not limited to the pollowing
- AZBUTH, DOWNTILT, AGL FROM SUNSIGHT INSTRUMENTS ANTENNA ALIGNMENT TOOL (AAT)
- SCALABLE BARCODE PHOTOGRAPHS OF TOWAR TOP AND INACCESSIBLE SCRIALIZED EQUIPMENT
- ALL AVAILABLE JURISDICTIONAL PERMIT AND OCCUPANCY INFORMATION
- PDF SCAN OF REDLINES PRODUCED IN FIELD
- A POS SCAN OF REDLINE MARK-UPS SUITABLE FOR USE IN ELECTRONIC AS-BUILT DRAWING PRODUCTION
- LIEN WAIVERS
- FINAL PAYMENT APPLICATION
- 9. REQUIRED FINAL CONSTRUCTION PHOTOS
- 11. APPLICADLE POST MTP TASKS INCLUDING DOCUMENT UPLOADS COMPLETED IN SITERIA (SPRINTS DOCUMENT REPOSITORY OF RECORD). 10. CONSTRUCTION AND COMMISSIONING CHECKLIST COMPLETE WITH NO DEPICIENT ITEMS
- CLOSEDUT PHOTOGRAPHE AND CLOSEOUT CHECKLIST, SPRINT WILL PHOVIDE SEPARATE GUIDANCE

HEMOTE ELECTRICAL TILT (RET) CABLES: A/E TO

Sprint

6580 Sprint Parkyray Werland Park, KS 66251

MISCELLANGOUS: NISTALL SPUTTERS, COMBINERS, FLIERS PER RF DATA SHEET, FURNISHED BY SPRINT.

METEMA METALALYDIN:

NETHURIAGO SHAMLA, ASSENSE, ALL ANTEWAS ONSITE! N ACCORDANCE WITH THE DISTRICTIONS SUPPLIED BY THE ALMERICATIONS, ANTEWAS HERBY, AZULITH, AND RESPONSITION OF ANALYSIS.

A. THE CONTRACTOR SHALL POSITION THE MATEMACON TOWARD HER MOUNTS SO THAT THE SOTTOM SHAULT, AS PIPE MOUNTS SALL BE FULME TO WITHIN 1 EVEL. THE PIPE MOUNTS SALL BE FULME TO WITHIN 1 EVEL. THE PIPE MOUNTS SALL BE FULME TO WITHIN 1

CASTLE

- autenna mounting requirements: provide antenna mounting hardware as indicated on the drawings.
- HYBRID CASLE INSTALLATION:

 A THE COMPRIACION SMALL ROUTE, TEST, AND INSTALL ALL CABLES AS INDICATED ON THE

 A THE COMPRIACION SMALL ROUTE, TEST, AND INSTALL ALL CABLES AS INDICATED ON THE

 ADCOMPRISED AND IN ACCORDANCE WITH THE MAURIFULTURETYS

 RECOMPRISED.
- THE INSTALLED RADIUS OF THE CABLES SHALL NOT BE LESS THAN THE MANUFACTURER'S SPECIFICATIONS FOR BENDING HADII.
- EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE CABLES DURING HAVIDLING AND INSTALLATION.
- FASTENING MAIN HYBRID CABLES: ALL CABLES SHALL BE INSTALLED INSIDE MONOPOLE WITH CABLE SUPPORT GRIPS AS REDUIRED BY THE MANUFACTURER,
- FASTENING INDIVIOUAL FIBER AND DC CABLES ADOVE BREAKOUT ENCLOSURE (MEDUSA), WITHIN THE MUBS CARRIET AND ANY INTERMEDIATE DISTRIBUTION BOXES:
- PROES SURPORT FIRER EUYOLES VOINS, A PUBLICADO TRANS OR THE RECURRED EDUCAL O 14º COL STRANS HALL DE UY, OL NAIO YMETE RESISTANT AND SUFFICIE FOR ROUS TRUL INSTALLATIONS ÀS MANUFACTURED BY TEXTU DR APPROVED EDULAL
- DCS SUPPORT DE DIVIDLES WITH ZIP TIES OF THE ADECUATE LENGTH, ZIP TIES TO BE UV STRBILLIZED, SLACK NYDON, WITH TENBLES TIKENGTH AT 12,000 PS) AS MANUFACTURED BY NELCO PRODUCTS ORI EQUAL.
- Pastendig Junpers: Secure Jumpers to the Bide Arms or Head Frames Using Stainless Steel the Wraps or Stainless Steel Butterfly Clips.

REV. DATE REVISIONS

REV. DATE REVISION DESCRIPTION

B M/m/H SEME FOR JUNE 1

- CABLE INSTALLATION:
- INSPECT CASLE PRIOR TO USE FOR SHIPPING DAMAGE, NOTIFY THE CONSTRUCTION MANAGER.
- CASLE ROUTING, CASLE INSTALLATION SHALL BE PLANNED TO ENSURE THAT THE LINES WILL BE PROPERLY PROUTED IN THE CABLE ENVELOP AS INDICATED ON THE DRAWINGS, AVOID TWISTING AND CHOSSOVERS.
- HOIST CABLE USING PROPER HOISTING GRIPS, DO NOT EXCEED MANUFACTURES RECOMMENDED MAXIMUM BEND HADIUS.

SECTION 11 700 • ANTENNA ASSEMBLY, REMOTE RADIO UNITS AND CABLE INSTALLATION

<u>Outroant.</u> His bection specifies installation of anthanas, ards, and cable equipment, Istallation, and testing of combal fiber cable.

<u>antenhas and fires.</u> The Number and type of antennas and rrus to be installed is detailed on the Construction drawnics.

NID CABLE. HID CABLE WILL BE OGFIBER AND FURNISHED FOR INSTALLATION AT EACH SITE. CABLE SHALL INSTALLED FER THE CONSTRUCTION BRAWINGS AND THE APPLICABLE MANUFACTURERS UNICAMENTI.

NUMERO AND COMMETCIONS.

TURNOM AND DISTANCE POR SAME CAME SE SETWESH THE SHIP AND ATTENNAS, MARCHIS BURNAS CAMES AND ATTENNAS, MARCHIS BURNAS CAMES AND ATTENNAS CAMES AND ATTENNAS CAMES AND ATTENNAS AND ATTENNAS

NOTES:

THIS DOCUMENT HAS BEEN PREPARED FOR 24'X 36" FORMAT DO NOT SCALE IF PLOTTED ON ANY OTHER FORMAT

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CONSTRUCTION SPECIFICATIONS

PROJECT #	CHECKED BY:	DRAWN BY:	DATE:
T#	Tra SA GE	7.8Y	12,05/17
	SP-1	SHEET #	AS NOTED

CONTINUE FROM SP-1

- GROUNDING OF TRANSMISSION LINES: ALL TRANSMISSION LINES SHALL BE GROUNDED AS HONCATED ON DRAWINGS.
- B. HYBRID CABLE COLOR CODING: ALL COLOR CODING SHALL BE AS REQUIRED IN TO EZOD (LATEST REVISION).
- HYDRID CADLE LABELING; INDVINOVAL HYDRID AND DC BINIDLES SHALL BE LABELED ALPHA-HUNESHICALLY ACCORDING TO SPRINT CELL SITE ENGINEERING NOTICE EN 2012-001, REV 1

WEATHERPROOFING EXTERIOR CONNECTORS AND HYBRID CABLE GROUND KITS:

- A ALL FIBER & COAX CONNECTORS AND CROUND KITS SHALL BE WEATHERPROOFED.
- WEATHERPROOPED USING ONE OF THE FOLLOWING METHODS, ALL INSTALLATIONS MUST BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY BEST
- AT STATEMENT OF ECULAR TO STATEMENT OF STATE
- 2. 3M SLIM LOCK CLOSURE 716: SUBSTITUTIONS WILL NOT BE ALLOWED. SELF-AMALGAMATING TAPE: CLEAN SURFACES, APPLY A DOUBLE WRAP OF SELF-AMALGAMATING TAPE? PERVAIN CONNECTOR, APPLY A SECOND WRAP OF SELF-AMALGAMATING TAPE IN OPPOSITE DIRECTION, APPLY DOUBLE WRAP OF 7 WIDE SELF-AMALGAMATING TAPE OF 7 WIDE DECITIONAL TAPE EXTENDING 7" BEYOND THE SELF-AMALGAMATING TAPE
- 4. OPEN FLAME ON JOB SITE IS NOT ACCEPTABLE

SECTION 11 800 - INSTALLATION OF MULTIMODAL BASE STATIONS (MMBS), AND RELATED EQUIPMENT

- THIS SECTION SPECIFIES MINES CADRICTS, POWER CARRETS, AND INTERNAL EQUIPMENT INCLUDING BY NOT LIMITED TO RECITIEIES, POWER DISTIBILIZION WHITS, BASE BAND WHITS, SINGLE ARRESTORS, BATTERIES, AND SINGLAI EQUIPMENT FUNNISHED BY THE COMPANY FOR INSTALLATION BY THE COMPANY FOR INSTALLATION BY THE COMPANY FOR
- CONTRACTOR SALL PROVIDE AND INSTALL ALL MISCELLAPICOUS BATERBULS AND PROVIDE ALL LABOR REQUIRED FOR INSTALLATION BOUNDED BY IN EXCELLAR OR REQUIRED FOR REVEAUNED FOR STATEMENT AND STATEMENT ON DIFFERENCE AND AS RECURE BY THE APPLICABLE INSTALLATION BUD'S.
- COMPLY WITH MANUFACTURERS INSTALLATION AND START-UP REQUIREMENTS

DC CIRCUIT BREAKER LABELING

NEW DC CIRCUIT IS REQUIRED IN MMBS CABINET SHALL BE CLEARLY IDENTIFIED AS TO RRU BEING SERVICED

SECTION 26 100 - BASIC ELECTRICAL REQUIREMENTS

SUMMART !: HAS SECTION SPECIFIES BASIC ELECTRICAL REQUIREMENTS FOR SYSTEMS AND COMPONENTS.

GUALITY ASSURANCE:

- ALL EQUIPMENT FURNISHED UNDER DIVISION 26 SHALL CARRY UL LABELS AND LISTINGS WHERE SUCH LABELS AND LISTINGS ARE AVAILABLE IN THE INDUSTRY.
- INAVERACTURENS OF EQUIPMENT SHALL HAVE A MINIMUM OF THRIEE YEARS EXPEDIENCE WITH THEIR COUPMENT INSTALLED AND OPERATING IN THE PELD IN A USE SIMILAR TO THE NEW USE FOR THIS PROJECT.
- H<u>IATERIALS AND EOLIPMENT.</u> ALL MATERIALS AND EOLIPMENT SPECIFIED IN DIVISION 36 OF THE GAME TYPE SHALL TEE OF THE SAME MANUFACTURER AND SHALL BE NEW, OF THE DEST QUALITY AND DESIGN, AND FREE FROM DEFECTS

SUPPORTING DEVICES:

- ALL EQUIPMENT PURNISHED UNDER DIVISION 26 SHALL CARRY OL LABELS AND LISTINGS WHERE SUCH LABELS AND LISTINGS ARE AVAILABLE IN THE BIDUSTRY.
- MANUFACTURERS OF ECURPAENT SHALL HAVE A MUNICUS OF THREE YEARS EXPERIENCE WITH THEIR ECUIPMENT INSTALLED AND OPERATING IN THE FIELD IN A USE SIMILAR TO THE NEW USE FOR THIS PROJECT.
- MATERIALS AND EQUIPMENT.
 ALL MATERIALS AND EQUIPMENT SPECIFIED IN DIVISION 26 OF THE SAME TYPE SHALL BE DE THE
 SAME MAYERACTUPED AND SHALL BE NEW, OF THE BEST QUALITY AND DESIGN, AND PRILE FROM
 DETECTS

SUPPORTING DEVICES:

- A. MANUFACTURED STRUCTURAL SUPPORT MATERIALS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE POLLOWING:
- T. ALLIED TUBE AND CONDUIT
- **UNISTRUT DIVENSIFIED PRODUCTS**

- 1. EXPANSION ANCHORS: CARBON STEEL WEDGE OR SLEEVE TYPE.

- Fasten by Means of Wood Screws on Wood.
- TOGGLE BOLTS ON HOLLOW MASONBY UNITS.
- Concrete inserts of expansion bolts on concrete or solid masoney.
- EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE SHALL NOT BE PERMITTED.
- DO NOT WELD CONDUIT, PIPE STRAPS, OR TEMS OTHER THAN THREADED STUDS TO STEEL STRUCTURES.

9. IN PARTITIONS OF LIGHT STEEL CONSTRUCTION, USE SHEET METAL SCREWS.

- COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER TRADES.
- ENSURE THAT THE LOAD APPLIED BY ANY FASTENIER JOES NOT EXCEED 25 PERCENT OF THE PROOF TEST LOAD.

CONDUIT

- TRANSITIONS BETWEEN PVC AND RIGID (RGS) SHALL BE MADE WITH PVC COATED HETALLIC LONG SWEEP RADIUS ELDOWS.
- BAT OR ROTO OLUMNIZED ETTEL CONDUIT MAY TE MEED IM RINSIED BYSICES CONCELED IN WALLS AND CEMPORE ART SHALL HE MILDO INTEL, ELECTROCALLY WINLED. SEED CHARLES ON HOTOINFEED CALLWANZED AND PRODUCED TO AMRI PERDIRECTION WINCE, AND SHALL DE UL LISTED, CHE WALL DE MANUEL CHARLES ON PRODUIT DE CALLWARZED AND PROPORTE BOWL. FITTINGS SHALL BE METALLIC COMPRESSION, SET DESING CONNECTIONS AND LINE AND LINE CHARLES ON THE CHARLES ON T
- LEUDO TILON FILCADIL SE RECALLE CONDUIT BAULL SEI USCE TESI RIPAL CONNECTION TO ELUPIDATION FILCADOR SE RECALLE CONDUIT SAULL SEI SCHEPP CONNECTION SEI ALL CONNECTION SEI ALL CONDUIT SOULL CONDUIT SAULL NOT BE ACCEPTABLE LAURING SEI SCHEPP CONNECTIONS SHALL NOT BE ACCEPTABLE LAURING SEI SCHEPP CONNECTION SHALL NOT BE ACCEPTABLE SAULL SEI SCHEPP CONNECTION SHALL NOT BE ACCEPTABLE SAULL SEI SCHEPP CONNECTION SEI ALL SOULL CONDUITS SHALL SEI CARPL, MANCONNA, ANTEN, AND SEI CARPL, MANCONNA, ANTEN, AND SEI CARPL MANCONNA, AND SEI CARPL MANCONNA, ANTEN, AND
- MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH (21MM).

- MALSAS ANTHE
- THOMAS & BETTS
- FASTENERS: TYPES, MATERIALS, AND CONSTRUCTION FEATURES AS FOLLOWS:
- power-driven threaded studs: Heat-treated steel, designed specifically for the interded service.
- MACHINE SCREWS, WELDED THREADED STUDS, OR SPRING-TENSION CLAMPS ON STEEL

SUPPORTING DEVICES:

- INSTALL SUPPORTING DEVICES TO FASTEN SLECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH NEC.
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS, FASTEN BLECTHICAL TIEMS AND THEIR SUPPORTING HARDWARE SECURELY TO THE STRUCTURE IN ACCORDANCE WITH THE FOLLOWING:
- USE VIBRATION AND SHOCK-HESISTANT PASTENERS FOR ATTACHMENTS TO CONCRETE SLASS.

ELECTRICAL IDENTIFICATION:

- UPDATE AND PROVIDE TYPED CIRCUIT BREAKER SCHEDULES IN THE MOUNTING BRACKET, INSIDE DOORS OF AC PANEL BOARDS WITH ANY CHANGES MADE TO THE AC SYSTEM.
- BRANCH CIRCUITS FEEDING AVIATION OBSTRUCTION LIGHTING EQUIPMENT SHALL BE CLEARLY IDENTIFIED AS SUCH AT THE BRANCH CIRCUIT PANELBOARD.

SECTION 26 200 - ELECTRICAL MATERIALS AND EQUIPMENT

- A PRIOR GALMARIED THEL PROD CONDUTE SYALL BE MANUFACTURED BY ALLEIG, REPUBLIC OR WHAT ALL AND THE CONDUCTION OF A PRODUCT OR AND THE CONDUCTION OF A PRODUCT OF A PRODUCT OF A PROSPROMER OF A PRODUCT OF A PROSPROMER OF A PROSPROME AND A PRODUCT OF A PROSPROMER OF A PROSPROME AND A PROSPROMER OF A PROSP
- UNDERGROUND CONDRUIT IN CONCRETE SHALL BE POLYVIWYLCHLORIDE (PVC) SUITABLE FOR ORRCT BUNLA, 43 APPLICABLE, JOINTS GHALL BE BELLED, AND FLUSH SOLVENT WELDER IN ACCORDANCE MYTH AMALE PACTURES INSTRUCTIONS, CONDUIT SHALL BE CARION ELECTRICAL PRODUCTS OR APPROVED EQUAL.

HUBS AND BOXES:

- B. CABLE TERMINATION FITTINGS FOR CONDUIT
- . CABLE TERMINATORS FOR RGS CONDUITS SHALL BE TYPE CHC BY O-Z/GEDNEY OR EQUAL BY ROX TEC.
- cable terminators for LFMC shall be etco $\text{cl}2075_{\text{f}}$ or made for the purpose products by poxec.
- ENTERIOR PUIL ERXES, MOI PUIL BOXES IN INTERIOR INDUSTRIAL ABLAS SHALL DE PAITED CAST ALLOY, HEAVY DUTY, HEATHERSHEDS, EMET PRODY, WITH CASTELLY, PAITED RIGH ALLOY COVER AND STRINGESS STEEL COVER ECCRENS, CROUGS-MINDS WALD SERIES OR EQUIAL
- COMPUT CUTLAT RODIES SHALL BE PLATED CAST ALLOY WITH SHIFLAR GARGETED COVERS,
 OUTLAT RODIES SHALL BE OF THE COLIFICIANTON AND SIZE SUITABLE FOR THE APPLICATIONA
 PROWIDE CHOUSE-HINDS FORM & O'R CRUAL
- MANUFACTURER FOR BOXES AND COVERS SHALL BE MOFFMAN, SQUARE "D", CROUSE-HINDS COOPER, ADALET, APPLETON, O-Z GEDNEY, RACO, OR APPROVED EQUAL

SUPPLEMENTAL GROUNDING SYSTEM

- NIPHIES AND INSTALL SEIPPLEMENTA GEORING SYSTEM TO THE CYTEM INDICATED OF THE PROPERTY BRITICATED OF THE PROPERTY SYSTEM WITH CHARGE WHAT GEORING COMMENCE ACQUIRED STATEM IN THE CHARGE OF THE ACQUIRED ACQUIRED ACQUIRED STANDARD OF SOLID BARE OR INSILATED CONDUCTORS CHARGE STANDARD OR SYSTEM ACQUIRED FOR ACQUIRED STANDARD OR SYSTEM.
- SUPPLEMENTAL CHONNING PYPTEM: ALL CONNECTIONS TO BE MADE WITH CAD WILLDS, DECENT AT EXAMPLEM USE LUCKS ON OTHER AVAILABLE CROWNEDHIC MEANS AS REQUIRED BY MANUFACTURERS; AT GROUND BARED USE. TWO HOLE SPADES WITH NO D.C. MANUFACTURERS, AT GROUND BARED.
- STOLEN GROUND-BASS: IN THE EVENT OF STOLEN GROUND BARS, CONTACT SPRINT ON FOR REPLACEMENT INSTRUCTION USING THREADED ROD KITS.

EXISTING STRUCTURE:

ENTRING EXPOSED WIRHER AND ALL EXPORTED BUT ETR, RECEPTACES, OMFICIES, EXPINES, AND DYHER EXAMPLEST PHAY PARE MOT FOR ETHE PRINCEST PHAY FOR BUT FOR AND THE REMOVED ON BECAUTE PRINCEST FOR PRINCEST PHAY FOR BUT FOR FOR PRINCEST PHAY FOR PRINCEST

CONDUIT AND CONDUCTOR INSTALLATION:

- ONDITIE CHALL RE FASTENED GEGUTELY IN PLACE WITH APPRIONED KOM-PETERDANTED STRAPD AND ATRIANED. AND ATRIANED AND STRAPD AND ATRIANED ATRIANED AND ATRIANED AND ATRIANED ATRIANED AND ATRIANED ATRIANED AND ATRIANED ATRIANED ATRIA
- CONDUCTORS SHALL BE PULLED IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE,

A. AT ENTRANCES TO CHONETS OR OTHER EQUIPMENT NOT HAVING MISCANI, THREADED HUBS PROVIDE METALLIC THEILDED HUBS OF THE SIZE AND COMPAUDATION REQUIRED. HUB SWILL INCLUDEL COCKNIT AND MOOPBERE OF PAING SEL, PROMIDE IMPACT RESISTANT FOR DEGREE OF PLASTIC DUDHINGS TO PROTECT CABLE MISULATION.

Sprint

6500 Sprint Parkway Overland Park, KS 66251

CASTLE

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V. DATE REVISIONS
SUCTION
SUCT

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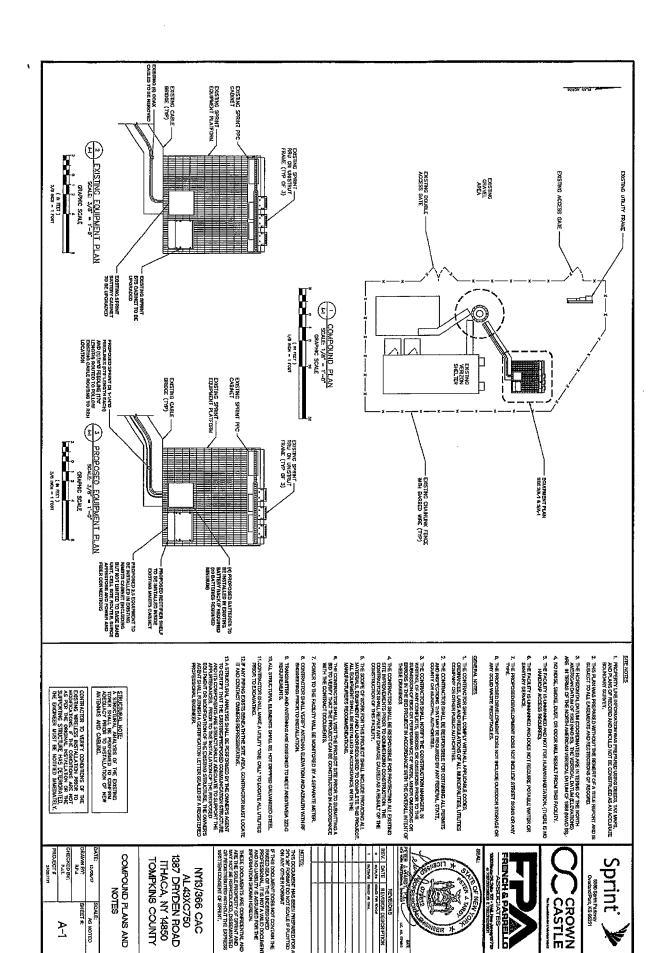
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CONSTRUCTION SPECIFICATIONS

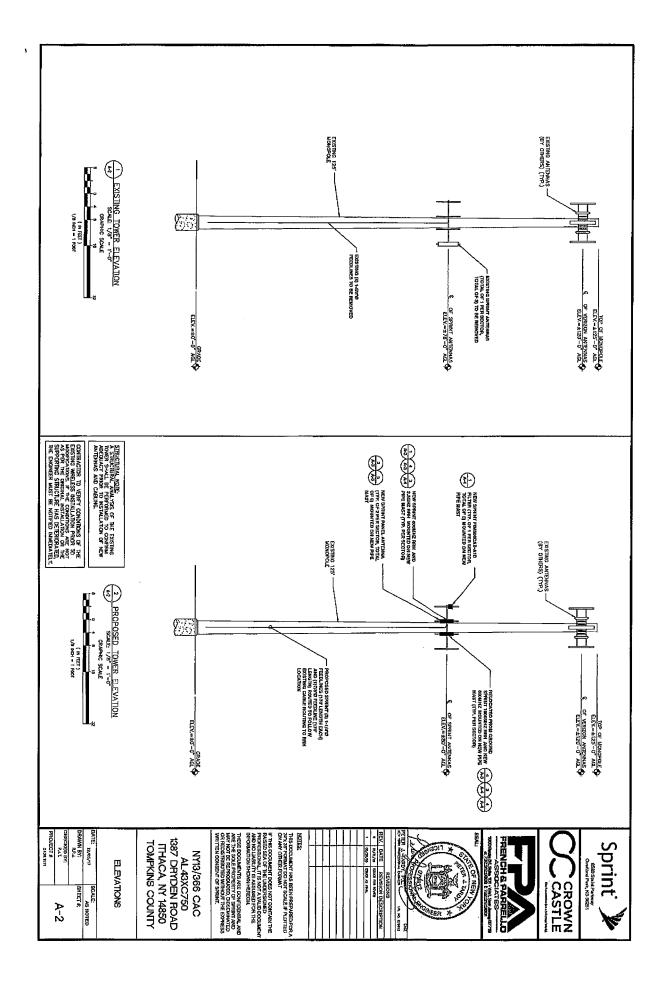
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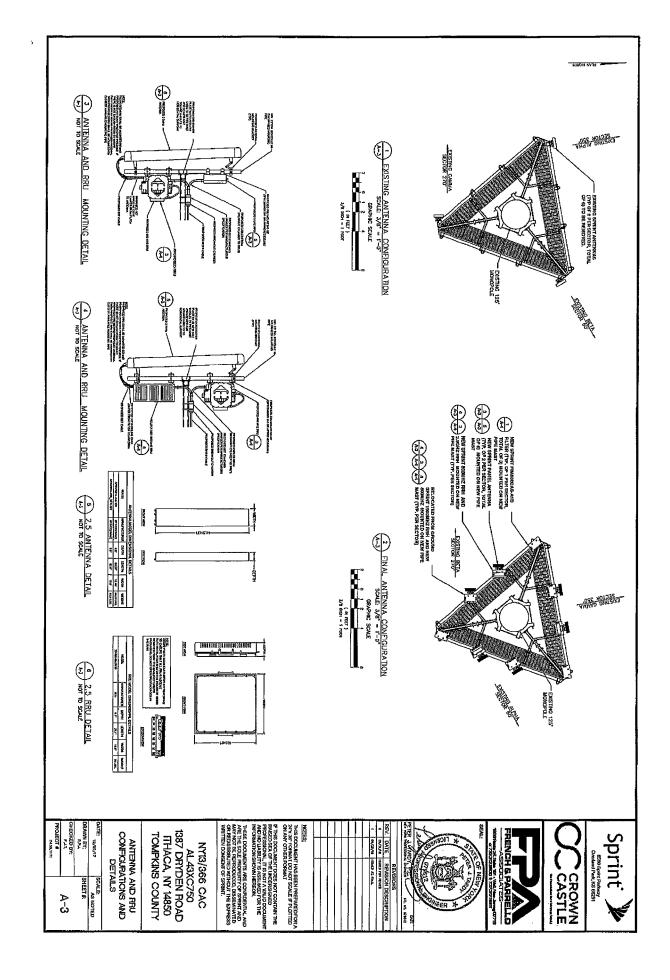
24.	PROJECT #	CHECKED BY:	DRAMN BY:	12/
2438.1171	*	ev: 1.	e. A	12/05/17
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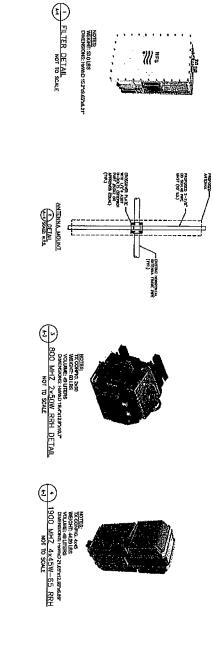


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DATE: 12/05/17

CABINET DETAILS AND ANTENNA SCHEDULE

DRAWN BY;

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NY13/366 CAC
AL43XC750
1987 DRYDEN ROAD
ITHACA, NY 14850
TOMPKINS COUNTY

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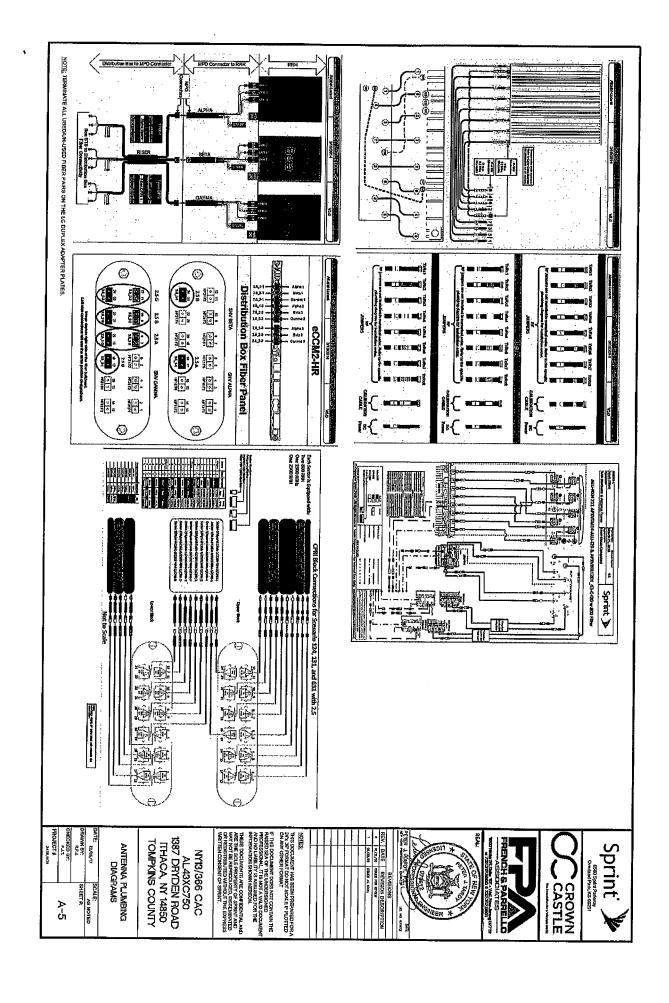
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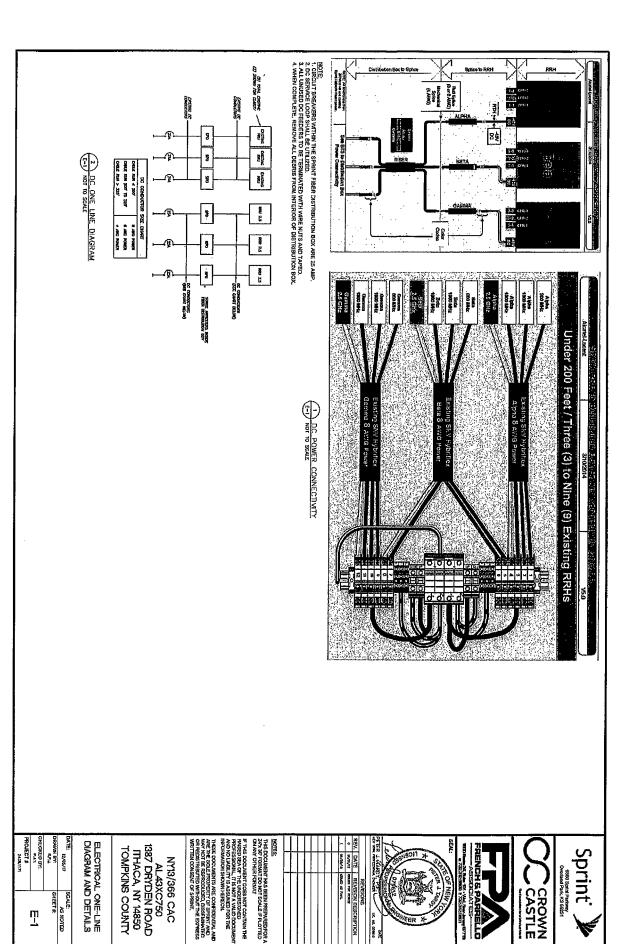
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FEEDLINE	FEEDLINE		FILTER	800 MHz RRH	1900 WHz RRH	2.5 GHz RRH	2.5 GHz ANTENNA	2.5 GHZ ANTENNA		FILTER	800 MHz RRH	1900 MHz RRH	25 GHZ RRH	25 GHZ ANIENNA	2.5 GHz ANTENNA		FILTER	800 MHz RRH	1900 MHz RRH	2.5 GHz RRH	2.5 GHz ANTENNA	2.5 GHz ANTENNA	DESCRIPTION	
<u></u>	w		j _{e4}	2	-	11	<u> </u>	1	_	12	2	-		 	F		1	2	P →	1-2	1-1	Jeà	QTY	IA INFOR
130' (7/8"Ø)	130' (EACH)(1-1/4"Ø)		15.2"x9.65"x8.5"	15.7"x13.0"x9.8"	25.1"x11.0"x11.4"	25.4"x17.5"x5.7"	82.6"x19.6"x8.5"	56.3"x12.6"x6.3"		15.2"x9,65"x8.5"	15.7°x13.0°x9.8"	25.1"x11.0"x11.4"	25.4"x17.5"x5.7"	82.6"x19.6"x8.5"	56.3"x12.6"x6.3"		15.2"x9.65"x8.5"	15.7"x13.0"x9.8"	25.1"x11.0"x11.4"	25,4"x17.5"x5.7"	82.6"x19.6"x8.5"	56.3"x12.6"x6.3"	DIMENSIONS	ANTENNA INFORMATION AND BILL OF MATERIALS
HB114-21UBM12-XXXF) HB114-1-08U4-M5F		FIM8000CAB-A1D	ALU RRH2X50-800	ALU PCS 1900MHz 4X45W-65MHz	ALU RRH8x20-25	RFS/APXVBBLLXXX_43-C-120	RES/APXVTM14-AL-120		FIM8000CAB-A1D	ALU RRH2X50-800	ALU PCS 1900WHz 4X45W-65MHz	ALU RRH8x20-25	RFS/APXVB8LL20X_43-C-120	RFS/APXVTM14-AL-120		FIM8000CAB-A1D	ALU RRH2X50-800	ALU PCS 1900MHz 4X45W-65MHz	ALU RRH8x20-25	RFS/APXVBBLL20X_43-C-120	RFS/APXVTM14-AL-120	PART/MODEL#	OF MATERIALS
N/A	N/A		A/N	N/A	N/A	N/A	350*	350		N/A	N/A	N/A	N/A	270	270*		N/A	N/A	A/N	N/A	60°	-00	AZIMUTH	
N/A	N/A		80'-0"	80'-0"	80'-0"	80'-0"	80°-0°	80-Q		80°-0"	80'-0"	80'-O"	80°-0°	80'-0"	80°-0°		80'-0"	80'-0"	80°-0"	80'-0"	80°-0"	80'-0"	RAD CENTER	

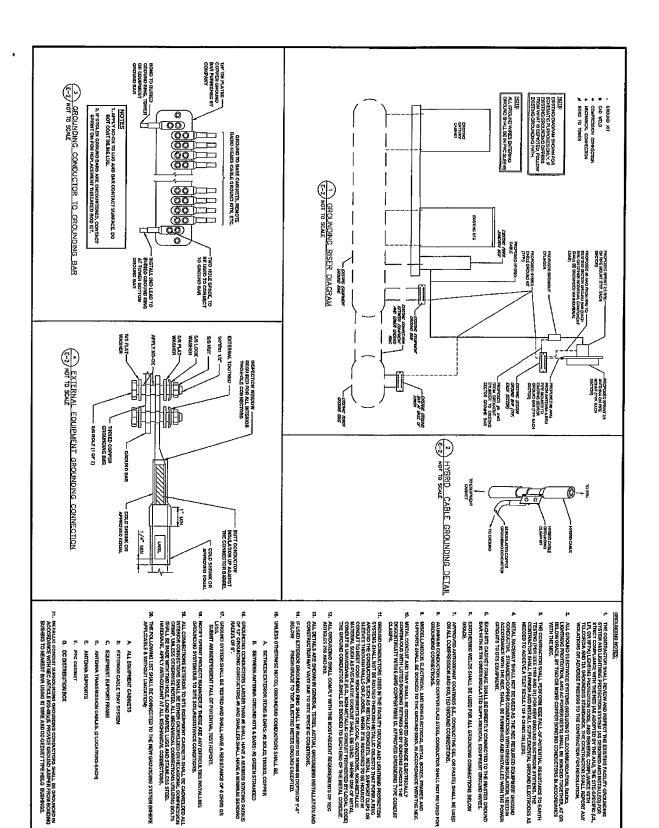








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CHECKED BY:
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PROJECT #
2434.1171

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12/05/17

NYI3/366 CAC AL43XC750 I387 DRYDEN ROAD ITHACA, NY 14850

GROUND DETAILS AND

NOTES

TOMPKINS COUNTY

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RÉVISIONS
REVISION DESCRIPTION
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Sprint

6560 Sprint Parkway verfand Park, KS 96251

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