

THOMAS J. REGAN
direct dial: (860) 509-6522
tregan@brownrudnick.com

185 Asylum
Street
Hartford
Connecticut
06103
tel 860.509.6500
fax 860.509.6501

VIA HAND DELIVERY

August 28, 2015

Robert Stein, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: Sprint Corp. – Notice of Exempt Modification, 24 Hospital Ave., Danbury

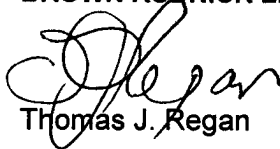
Dear Mr. Stein:

On behalf of Sprint Corporation ("Sprint"), enclosed for filing are an original and two (2) copies of Sprint's Notice of Exempt Modification for a facility located at 24 Hospital Avenue in Danbury, Connecticut (Danbury Hospital). I also enclose herewith a check in the amount of \$625.00 representing the filing fee.

If you have any questions, please feel free to contact me.

Sincerely,

BROWN RUDNICK LLP


Thomas J. Regan

62037840 v1-WorkSiteUS-080563/3276

CONNECTICUT SITING COUNCIL

In re:

Sprint Corporation Notice to Make an Exempt : **EXEMPT MODIFICATION NO.** _____
Modification to an Existing Facility at 24 :
Hospital Avenue, Danbury, Connecticut. : August 28, 2015

NOTICE OF EXEMPT MODIFICATION

Pursuant to Conn. Agencies Regs. §§ 16-50j-73 and 16-50j-72(b), Sprint Corporation (“Sprint”) hereby gives notice to the Connecticut Siting Council (“Council”) of Sprint’s intent to make an exempt modification to its existing antennas on the rooftop of the building located at 24 Hospital Avenue in Danbury, Connecticut (the “Facility”). The landlord is Danbury Hospital. As part of its Network Vision initiative and 2.5 GHz upgrade, Sprint plans to remove some of the existing antennas, relocate one antenna and add new antennas and base station equipment at this Facility. These upgrades will enhance Sprint’s overall network in Danbury.

Under the Council’s regulations (Conn. Agencies Regs. § 16-50j-72(b)), Sprint’s plans do not constitute a modification subject to the Council’s review because Sprint will not change the height of the Facility, will not extend the boundaries of the compound, will not increase the noise levels at the site, and will not increase the total radio frequency electromagnetic radiation power density at the site to levels above applicable standards.

Sprint plans to install a total of three (3) Network Vision (800/1900 MZ) antennas with nine (9) associated remote radio units (“RRU”) (Site Plan attached). Two (2) of the Network

Vision antennas and six (6) RRUs will have a centerline at 131' and one (1) Network Vision antenna and three (3) RRUs will have a centerline at 155'. The existing antennas and RRUs at 131' will be removed. Sprint also plans to install six (6) 2500 MHz antennas with six (6) associated RRUs. Four (4) of the existing antennas and RRUs at 155' will be remain (with one (1) being relocated). To confirm that the Facility can support these changes, Sprint commissioned Infinigy to perform a structural analysis of the Facility (attached). According to the structural analysis dated July 9, 2015, "the structure meets the specified TIA code requirements with [] modifications". Infinigy proposed four modifications, all of which Sprint has incorporated its Mount Modification drawings which are included as part of the Site Plan (attached).


Sprint plans to remove four (4) equipment cabinets and a cable tray from within its lease area. Sprint will add three (3) equipment cabinets, a battery backup cabinet, three (3) hybridflex cables, three (3) fiber cables and a fiber distribution box to its lease area. The lease area will stay the same size.

Excluding brief, minor, construction-related noise during the addition of the antennas and related equipment, the proposed changes to the Facility will not increase noise levels at the site.

The replacement of the antennas will not adversely impact the health and safety of the surrounding community or the people working on the Facility. A complete power density analysis prepared by C Squared Systems, LLC is attached. According to the power density analysis "the highest composite (measured + calculated) power density is 6.65% of the FCC General Population MPE limit" (emphasis omitted).

In conclusion, Sprint's proposed plan to add nine (9) antennas, fifteen (15) RRUs and associated base station equipment does not constitute a modification subject to the Council's jurisdiction because Sprint will not increase the height of the Facility, will not extend the boundaries of the site, will not increase the noise levels at the site, and the total radio frequency electromagnetic radiation power density will stay within all applicable standards. *See Conn. Agencies Regs. § 16-50j-72.*

Sprint Corporation

By:  _____
Thomas J. Regan
Brown Rudnick LLP
185 Asylum Street, CityPlace I
Hartford, CT 06103-3402
Email - tregan@brownrudnick.com
Phone - 860.509.6522
Fax - 860.509.6501

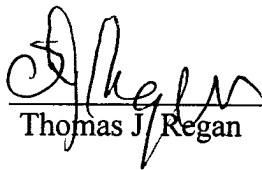
Certificate of Service

This is to certify that on this 28th day of August, 2015, the foregoing Notice of Exempt

Modification was sent, via first class mail, to the following:

Mark D. Boughton, Mayor
City of Danbury
155 Deer Hill Ave
Danbury, CT 06810

Danbury Hospital
24 Hospital Avenue
Danbury, CT 06810
Attention: Bill Layda, Safety Director

By: 
Thomas J. Regan

62037129

PROJECT INFORMATION

THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT FACILITY AND WILL BE USED FOR THE PROVISION OF WIRELESS COMMUNICATIONS SERVICE.

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.

SPRINT MAINTENANCE CREW (TYPICALLY ONE PERSON) WILL MAKE AN AVERAGE OF ONE TRIP PER MONTH AT ONE HOUR PER VISIT.

LEGEND

SYMBOL	DESCRIPTION
(Symbol: Breaker)	CIRCUIT BREAKER
(Symbol: Switch)	NON-FUSIBLE DISCONNECT SWITCH
(Symbol: Panel)	FUSIBLE DISCONNECT SWITCH
(Symbol: Board)	SURFACE MOUNTED PANEL BOARD
(Symbol: Transformer)	TRANSFORMER
(Symbol: Meter)	KILOWATT HOUR METER
(Symbol: Box)	JUNCTION BOX
(Symbol: Pull Box)	PULL BOX TO NEC/TELECO STANDARDS
(Symbol: Utility)	UNDERGROUND UTILITIES
(Symbol: Note)	DENOTES REFERENCE NOTE
(Symbol: Weld)	EXOTHERMIC WELD CONNECTION
(Symbol: Mech)	MECHANICAL CONNECTION
(Symbol: Rod)	GROUND ROD
(Symbol: Rod with Sleeve)	GROUND ROD WITH INSPECTION SLEEVE
(Symbol: Bar)	GROUND BAR
(Symbol: Pipe)	4" AND SLEEVE RECEIPTABLE
(Symbol: Pipe with Duplex)	120AC DUPLEX RECEIPTABLE
(Symbol: Conductor)	GROUND CONDUCTOR

ABBREVIATIONS

COBE	COAX ISOLATED GROUND BAR EXTERNAL
MGSE	MASTER ISOLATED GROUND BAR
SST	SELF SUPPORTING TOWER
GPS	GLOBAL POSITIONING SYSTEM
TYP	TYPICAL
DRW	DRAWING
SWG	BASE COPPER WIRE
BFG	BELOW FINISH GRADE
PAC	POLYVINYL CHLORIDE
CAB	CABINET
C	CONDUIT
SS	STAINLESS STEEL
CWC	CANADIAN WIRE GAGE
RWG	RIGID GALVANIZED STEEL
PSS	PERMANENT
AMU	AUTHORITY HAVING JURISDICTION
TTLNA	TOWER TOP LOW NOISE AMPLIFIER
UMLN	UNLESS NOTED OTHERWISE
EMLT	ELECTRICAL METALLIC TUBING
AGL	ABOVE GROUND LEVEL
PVC	POLYVINYL CHLORIDE

GENERAL NOTES

PART 1 - GENERAL REQUIREMENTS

- THE WORK SHALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LATEST EDITION, AND PERTINENT THEREOF, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - 2015 IBC CODE REQUIREMENTS: MECHANICAL, ELECTRICAL, AND PLUMBING
 - 2015 IBC CODE REQUIREMENTS FOR THE SPECIAL DESIGN
 - MANUFACTURE, TYPE, PERFORMANCE STANDARDS AND STANDARDS (IF APPLICABLE) FOR ALL MATERIALS AND EQUIPMENT TO BE PROVIDED BY THE CONTRACTOR.
 - AND WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND WITH THE LATEST EDITION OF THE NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72).
 - REQUIREMENTS FOR ELECTRICAL AND MECHANICAL ENGINEERS (SEE).
- DEFINITIONS:
 - WORK: THE SUM OF TASKS AND RESPONSIBILITIES DEVELOPED IN THE CONTRACT DOCUMENTS.
 - COMPANY: SPRINT NEXTEL CORPORATION.
 - ENGINEER: SINDY WISNIEWSKI, ARCHITECT & ENGINEER AND "IN CHARGE" OF THE PROJECT, HAVING PROFESSIONAL RESPONSIBILITY FOR THE DESIGN OF THE PROJECT.
 - CONTRACTOR: THE CONTRACTOR FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. INDIVIDUAL OR ENTITY WHO AFTER EXECUTION OF A CONTRACT IS BOUND TO ACCORDANCE WITH THE COMPANY, OR AN AGENT OR AGENT ENGAGED SEPARATELY BY THE COMPANY, AND/OR CONTRACTOR TO PROVIDE MATERIALS OR TO ACCOMPANY SPECIFIC TASKS RELATED TO BUT NOT INCLUDED IN THE WORK.
 - POINT OF CONTACT: COMMUNICATION BETWEEN THE COMPANY AND THE CONTRACTOR SHALL BE MADE THROUGH THE SINGLE COMPANY SITE DEVELOPMENT SPECIALIST OR OTHER PROJECT COORDINATOR APPOINTED TO MANAGE THE PROJECT FOR THE COMPANY.
 - ON-SITE SUPERVISION: THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND SCHEDULES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COMPLIANT SUPERINTENDENT WHO SHALL BE IN ATTENDANCE AT THE SITE AT ALL TIMES DURING PERFORMANCE OF THE WORK.
 - DRAWINGS, SPECIFICATIONS AND DETAILS: THE CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS, STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES, AND THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES AT THE JOB SITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.
 - REVISIONS, SPECIFICATIONS AND DETAILS SHALL BE INDICATED BY THE CONTRACTOR WITHIN 14 DAYS OF THE DATE OF THE ORIGINAL SET. THE CONTRACTOR SHALL COMPLY WITH ALL CHANGES IN CONSTRUCTION OTHER THAN IS SHOWN IN THE DOCUMENTS. ALL CHANGES TO THE ORIGINAL SET SHALL BE SUBMITTED TO THE COMPANY AND APPROVED BY THE COMPANY. THE COMPANY'S DESIGNATION REPRESENTATIVE IS TO BE FORWARDED TO THE CONTRACTOR'S REPRESENTATIVE IN THE FORM OF A LETTER.
 - NOTICE TO PROCEED:
 - NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED.
 - ANY WORKING NOTICE TO PROCEED SHALL BE FULLY PERFORMED IN ACCORDANCE WITH THE COMPANY'S WRITTEN NOTICE TO PROCEED WITH AN OPERATIONAL WIRELESS FACILITY.

PART 2 - EXECUTION

- TEMPORARY UTILITIES AND FACILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF ALL TEMPORARY UTILITIES AND FACILITIES NECESSARY FOR THE CONSTRUCTION. TEMPORARY UTILITIES AND FACILITIES INCLUDE: POTABLE WATER, HEAT, HVAC, ELECTRICITY, SANITARY FACILITIES, WASTE DISPOSAL FACILITIES, AND TELEPHONE/FACSIMILE SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COMPLIANT SUPERINTENDENT WHO SHALL BE IN ATTENDANCE AT THE JOB SITE AT ALL TIMES DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES.
- ACCESS TO WORK: THE CONTRACTOR SHALL PROVIDE ACCESS TO THE JOB SITE FOR AUTHORIZED COMPANY PERSONNEL AND AUTHORIZED REPRESENTATIVES OF THE ARCHITECT/ENGINEER DURING ALL PHASES OF THE WORK.
- TESTING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING AS REQUIRED BY THE COMPANY AND THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES.

PART 3 - RECEIPT OF MATERIAL & EQUIPMENT

- RECEIPT OF MATERIAL AND EQUIPMENT: THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING, INSPECTION, STORAGE AND PROTECTION OF ALL MATERIAL AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES.

PART 4 - GENERAL REQUIREMENTS FOR CONSTRUCTION

- CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIALS AT ALL TIMES. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL MATERIALS AND EQUIPMENT FROM THE SITES. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES.
- EQUIPMENT STORAGE SHALL AT ALL TIMES BE MAINTAINED "TIDY AND CLEAR" OF DEBRIS.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO DISORDER AND LOCATE ANY HAZARDOUS CONDITIONS.
 - IF THE CONTRACTOR ENCOUNTERS ANY HAZARDOUS CONDITION WHICH HAS NOT BEEN IDENTIFIED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND NOTIFY COMPANY BY WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED UNTIL WRITTEN NOTIFICATION IS RECEIVED BY COMPANY.
- CONTRACTOR AGREES TO USE CARE TO PREVENT ANY DRAINAGE, EROSION, HAZARDOUS CONDITIONS TO BE FURTHER RELEASED IN THE ENVIRONMENT, OR TO FURTHER EXPOSE INDIVIDUALS TO THE HAZARD. CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS. CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS. CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS. CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS.
- CONDUCT TESTING AS REQUIRED HEREIN.

PART 5 - TESTS AND INSPECTIONS

- TESTS AND INSPECTIONS:
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS AND INSPECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES.
 - CONTRACTOR SHALL COORDINATE TEST AND INSPECTION SCHEDULES WITH COMPANY'S REPRESENTATIVE WHO MUST BE ON SITE TO WITNESS SUCH TESTS AND INSPECTIONS.
 - WHEN THE USE OF A THIRD PARTY INDEPENDENT TESTING AGENCY IS REQUIRED, THE AGENCY THAT IS SELECTED MUST PERFORM SUCH WORK ON A FEE-BASED BASIS IN THE STATE OF CONNECTICUT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES.
 - THE THIRD PARTY TESTING AGENCY IS TO BE FAMILIAR WITH THE APPLICABLE REQUIREMENTS FOR THE TESTS TO BE DONE. EQUIPMENT TO BE USED, AND ASSOCIATED HEALTH AND SAFETY ISSUES, THE SITE ACCESS TO EACH TESTING PER EQUIPMENT CALL THE CONTRACTOR FOR FURTHER INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES.
- ALL OTHER TESTS REQUIRED BY COMPANY OR JURISDICTION.

GENERAL INFORMATION

THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT FACILITY AND WILL BE USED FOR THE PROVISION OF WIRELESS COMMUNICATIONS SERVICE.

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.

SPRINT MAINTENANCE CREW (TYPICALLY ONE PERSON) WILL MAKE AN AVERAGE OF ONE TRIP PER MONTH AT ONE HOUR PER VISIT.

ABBREVIATIONS

COBE	COAX ISOLATED GROUND BAR EXTERNAL
MGSE	MASTER ISOLATED GROUND BAR
SST	SELF SUPPORTING TOWER
GPS	GLOBAL POSITIONING SYSTEM
TYP	TYPICAL
DRW	DRAWING
SWG	BASE COPPER WIRE
BFG	BELOW FINISH GRADE
PAC	POLYVINYL CHLORIDE
CAB	CABINET
C	CONDUIT
SS	STAINLESS STEEL
CWC	CANADIAN WIRE GAGE
RWG	RIGID GALVANIZED STEEL
PSS	PERMANENT
AMU	AUTHORITY HAVING JURISDICTION
TTLNA	TOWER TOP LOW NOISE AMPLIFIER
UMLN	UNLESS NOTED OTHERWISE
EMLT	ELECTRICAL METALLIC TUBING
AGL	ABOVE GROUND LEVEL
PVC	POLYVINYL CHLORIDE

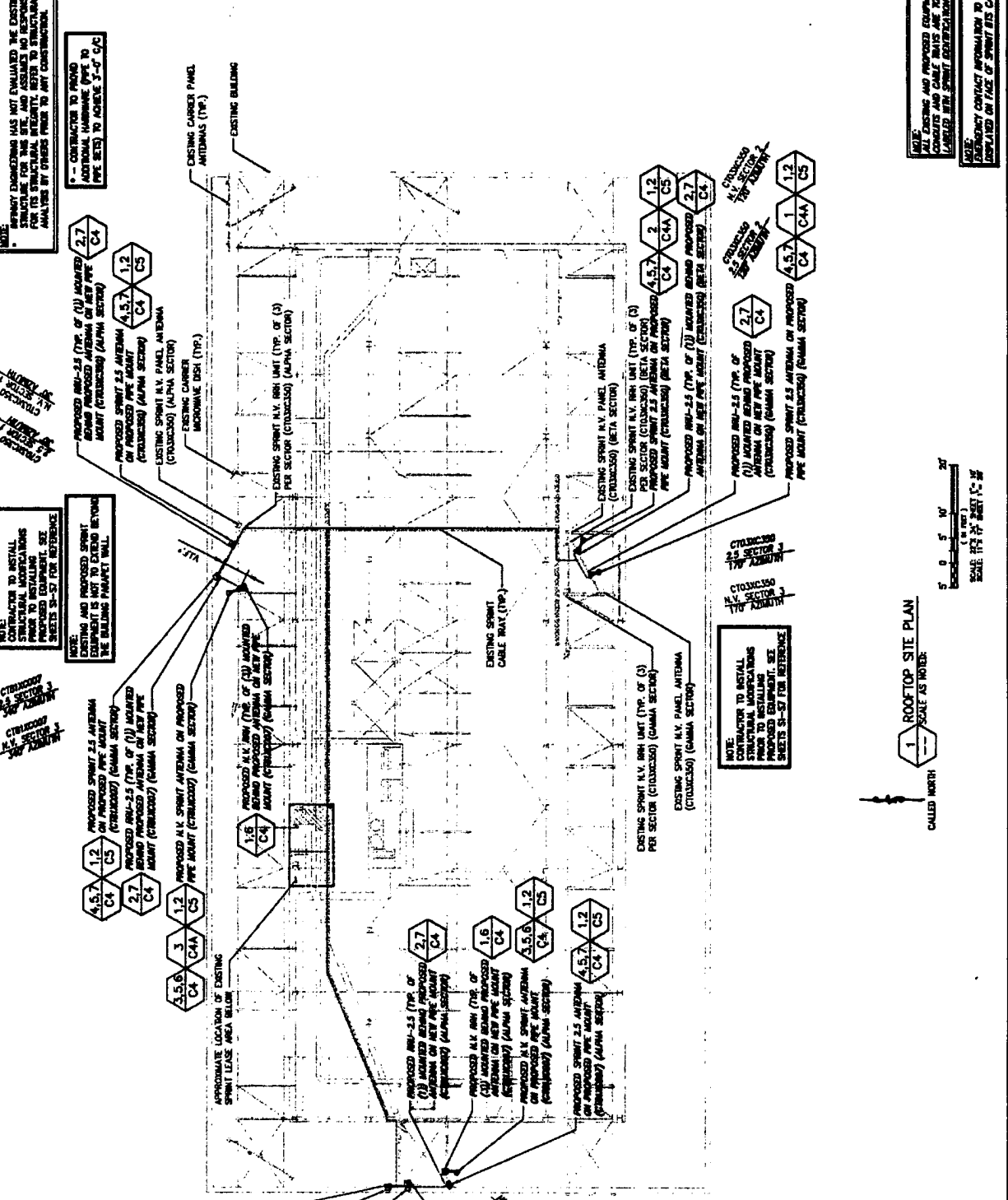


NO.	DATE	DESCRIPTION	BY	CHKD.
1	08/11/2010	ISSUED FOR PERMIT	SS	SS
2	08/11/2010	REVISIONS	SS	SS
3	08/11/2010	REVISIONS	SS	SS
4	08/11/2010	REVISIONS	SS	SS
5	08/11/2010	REVISIONS	SS	SS
6	08/11/2010	REVISIONS	SS	SS
7	08/11/2010	REVISIONS	SS	SS
8	08/11/2010	REVISIONS	SS	SS
9	08/11/2010	REVISIONS	SS	SS
10	08/11/2010	REVISIONS	SS	SS
11	08/11/2010	REVISIONS	SS	SS
12	08/11/2010	REVISIONS	SS	SS
13	08/11/2010	REVISIONS	SS	SS
14	08/11/2010	REVISIONS	SS	SS
15	08/11/2010	REVISIONS	SS	SS
16	08/11/2010	REVISIONS	SS	SS
17	08/11/2010	REVISIONS	SS	SS
18	08/11/2010	REVISIONS	SS	SS
19	08/11/2010	REVISIONS	SS	SS
20	08/11/2010	REVISIONS	SS	SS

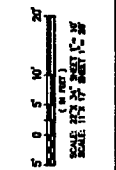
PROJECT NO. 1025-2010
 PROJECT NAME: DANBURY HOSPITAL
 24 HOSPITAL AVE
 DANBURY, CT 06810
 CLIENT: SPRINT
 DESIGNER: INFINIGY8

DATE: 08/11/2010
 DRAWING NO.: 1025-2010-01
 SHEET NO.: 02
 PROJECT: DANBURY HOSPITAL
 TITLE: ROOFTOP SITE PLAN

NOTE: CONTRACTOR TO PROVIDE ADDITIONAL HARDWARE PIPE TO BE USED TO ACHIEVE 3'-0" O.C.
 NOTE: CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING EQUIPMENT. SEE SHEETS S-37 FOR REFERENCE.
 NOTE: CONTRACTOR TO PROVIDE ADDITIONAL HARDWARE PIPE TO BE USED TO ACHIEVE 3'-0" O.C.
 NOTE: CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING EQUIPMENT. SEE SHEETS S-37 FOR REFERENCE.
 NOTE: CONTRACTOR TO PROVIDE ADDITIONAL HARDWARE PIPE TO BE USED TO ACHIEVE 3'-0" O.C.
 NOTE: CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING EQUIPMENT. SEE SHEETS S-37 FOR REFERENCE.
 NOTE: CONTRACTOR TO PROVIDE ADDITIONAL HARDWARE PIPE TO BE USED TO ACHIEVE 3'-0" O.C.
 NOTE: CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING EQUIPMENT. SEE SHEETS S-37 FOR REFERENCE.



NOTE: CONTRACTOR TO PROVIDE ADDITIONAL HARDWARE PIPE TO BE USED TO ACHIEVE 3'-0" O.C.
 NOTE: CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING EQUIPMENT. SEE SHEETS S-37 FOR REFERENCE.
 NOTE: CONTRACTOR TO PROVIDE ADDITIONAL HARDWARE PIPE TO BE USED TO ACHIEVE 3'-0" O.C.
 NOTE: CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING EQUIPMENT. SEE SHEETS S-37 FOR REFERENCE.



1 ROOFTOP SITE PLAN
 SCALE AS NOTED

INFORMATION CONTAINED WITHIN DRAWINGS ARE BASED ON PROVIDED INFORMATION.
 BASED ON PROVIDED INFORMATION.
 BASED ON PROVIDED INFORMATION.
 BASED ON PROVIDED INFORMATION.
 BASED ON PROVIDED INFORMATION.

INFINIGY8

1000 Waterbury Street, Suite 200
Waterbury, CT 06705
Tel: 203.245.1234



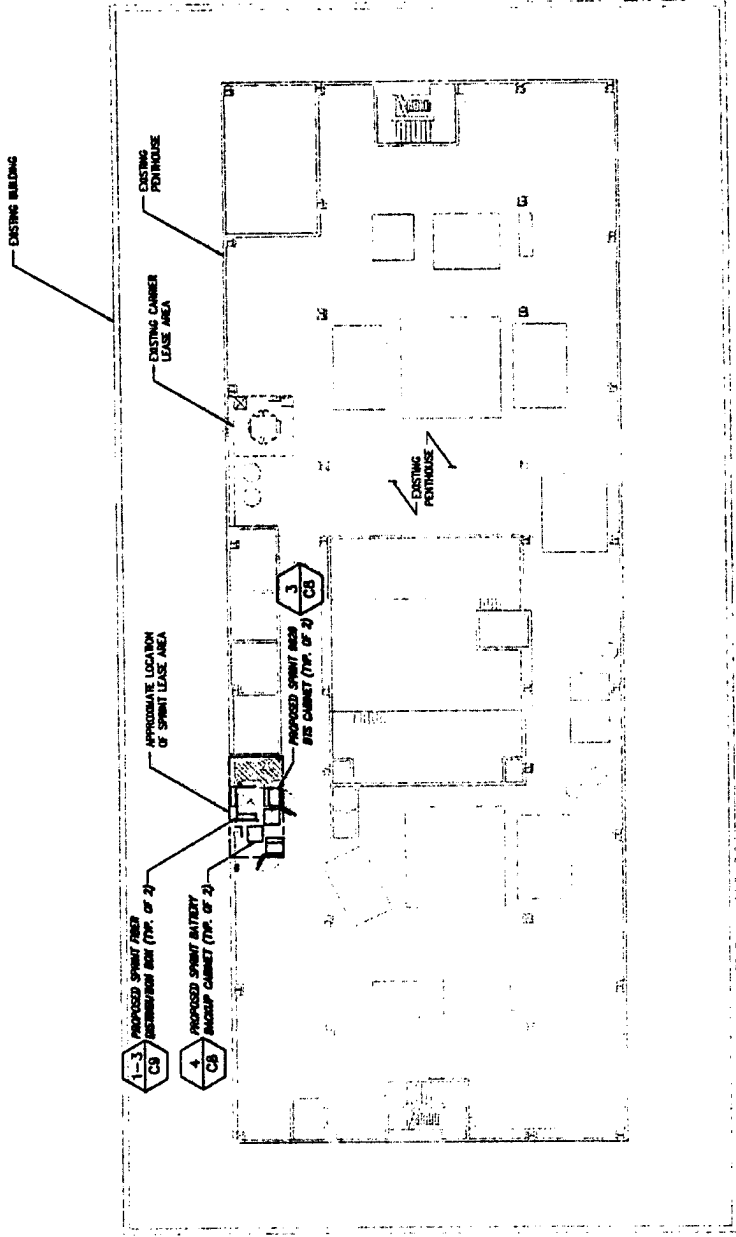
NO.	DATE	DESCRIPTION
1	01/15/10	ISSUED FOR PERMIT
2	01/15/10	ISSUED FOR PERMIT
3	01/15/10	ISSUED FOR PERMIT
4	01/15/10	ISSUED FOR PERMIT
5	01/15/10	ISSUED FOR PERMIT
6	01/15/10	ISSUED FOR PERMIT
7	01/15/10	ISSUED FOR PERMIT
8	01/15/10	ISSUED FOR PERMIT
9	01/15/10	ISSUED FOR PERMIT
10	01/15/10	ISSUED FOR PERMIT
11	01/15/10	ISSUED FOR PERMIT
12	01/15/10	ISSUED FOR PERMIT
13	01/15/10	ISSUED FOR PERMIT
14	01/15/10	ISSUED FOR PERMIT
15	01/15/10	ISSUED FOR PERMIT
16	01/15/10	ISSUED FOR PERMIT
17	01/15/10	ISSUED FOR PERMIT
18	01/15/10	ISSUED FOR PERMIT
19	01/15/10	ISSUED FOR PERMIT
20	01/15/10	ISSUED FOR PERMIT
21	01/15/10	ISSUED FOR PERMIT
22	01/15/10	ISSUED FOR PERMIT
23	01/15/10	ISSUED FOR PERMIT
24	01/15/10	ISSUED FOR PERMIT
25	01/15/10	ISSUED FOR PERMIT
26	01/15/10	ISSUED FOR PERMIT
27	01/15/10	ISSUED FOR PERMIT
28	01/15/10	ISSUED FOR PERMIT
29	01/15/10	ISSUED FOR PERMIT
30	01/15/10	ISSUED FOR PERMIT

Project No: CTB1X0007/
CTB3X0050
DANBURY
HOSPITAL
24 HORIZONTAL AVE
DANBURY, CT 06810



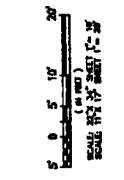
Working Title: FLOOR SITE PLAN
Drawing No: C2A

NOTE: ENGINEERING HAS NOT EVALUATED THE EXISTING STRUCTURE FOR THIS SITE, AND ASSUMES NO RESPONSIBILITY FOR ITS STRUCTURAL INTEGRITY. REFER TO STRUCTURAL ANALYSIS BY OTHERS MADE TO ANY CONSTRUCTION.



NOTE: ALL EXISTING AND PROPOSED EQUIPMENT SHALL BE LABELED WITH THE SPRINT IDENTIFICATION LABELS PER SPRINT IDENTIFICATION.

NOTE: SUBSEQUENT CONTACT OF SPRINT IS TO BE SUPPLIED ON FILE OF SPRINT ETS CABINET.



1 FLOOR SITE PLAN
SCALE AS NOTED

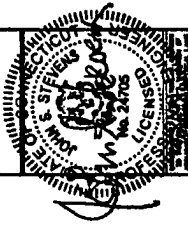
CALL TO NORTH

INFORMATION CONTAINED WITHIN DRAWINGS ARE BASED ON PROVIDED INFORMATION.

BASEMAPING PREPARED FROM A SITE VISIT PERFORMED BY SPRINT AND DOES NOT REPRESENT AN ACTUAL FIELD SURVEY.

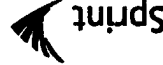
INFINIGY8

1000 Waterbury Street
Waterbury, CT 06705
Tel: 203-261-1100



1	DATE	01/15/10
2	DESCRIPTION	ISSUE FOR PERMIT
3	DATE	01/15/10
4	DESCRIPTION	ISSUE FOR PERMIT
5	DATE	01/15/10
6	DESCRIPTION	ISSUE FOR PERMIT
7	DATE	01/15/10
8	DESCRIPTION	ISSUE FOR PERMIT
9	DATE	01/15/10
10	DESCRIPTION	ISSUE FOR PERMIT
11	DATE	01/15/10
12	DESCRIPTION	ISSUE FOR PERMIT
13	DATE	01/15/10
14	DESCRIPTION	ISSUE FOR PERMIT
15	DATE	01/15/10
16	DESCRIPTION	ISSUE FOR PERMIT
17	DATE	01/15/10
18	DESCRIPTION	ISSUE FOR PERMIT
19	DATE	01/15/10
20	DESCRIPTION	ISSUE FOR PERMIT

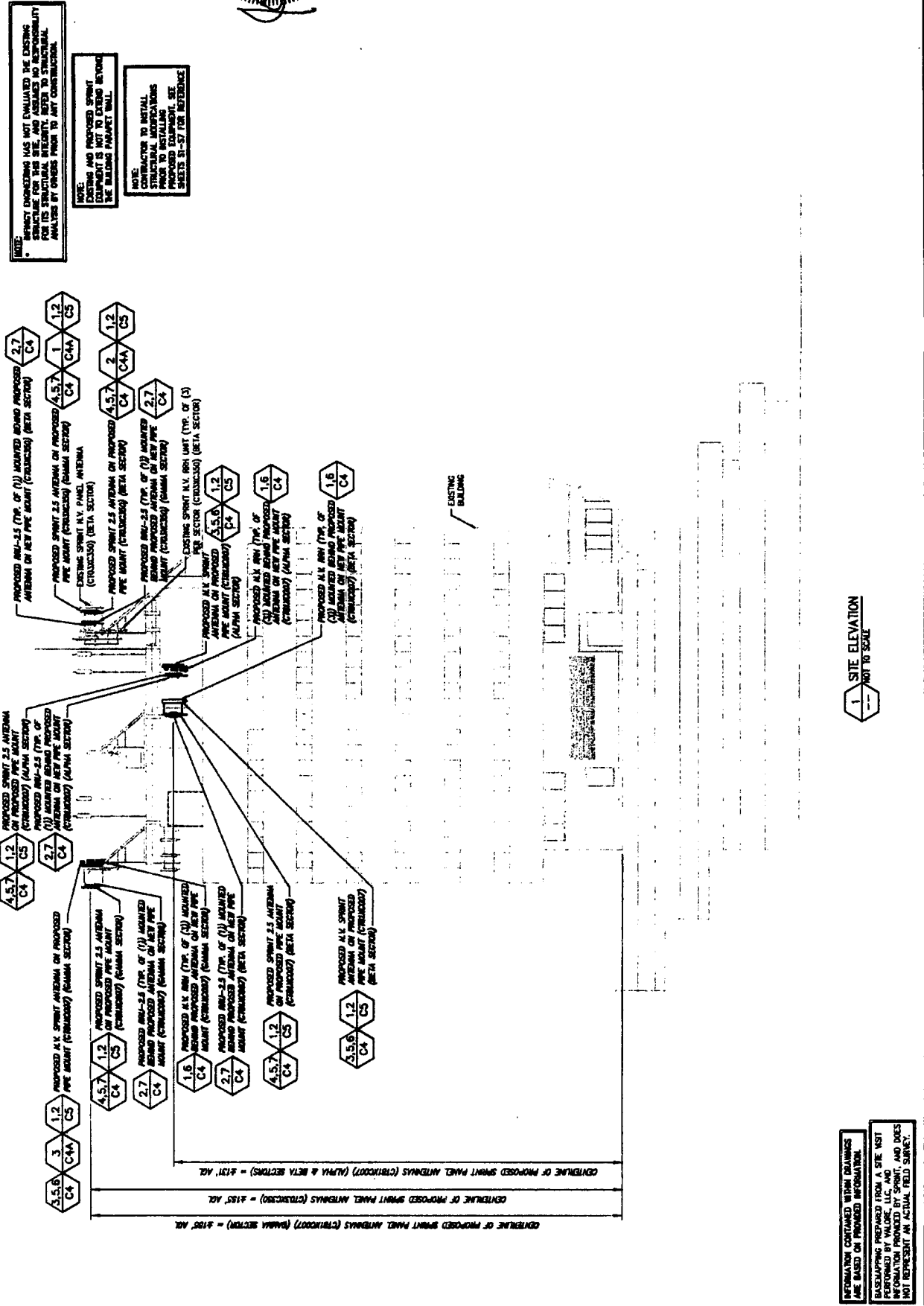
Project No: CTR1XCC007 / CTR1XCC350
 DANBURY HOSPITAL
 24 HOSPITAL AVE
 DANBURY, CT 06810



Drawing No: 1-1000
 Date: 1/15/10

ELEVATION VIEW

C-2B



NOTE:
 EXISTING AND PROPOSED SPRINT ANTENNAS SHALL BE INSTALLED AND RETROFITTED TO MEET ALL LOCAL AND STATE REGULATIONS AND REQUIREMENTS FOR THE PROPOSED ANTENNAS. CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING ANTENNAS. SEE SHEETS 1-107 FOR DETAILS.

1 SITE ELEVATION
NOT TO SCALE

INFORMATION CONTAINED WITHIN DRAWINGS ARE BASED ON PROVIDED INFORMATION.
 BASEMAPS PREPARED FROM A SITE VISIT PERFORMED BY VALUE, LLC, AND DOES NOT REPRESENT AN ACTUAL FIELD SURVEY.

INFINIGY8

2004 Massachusetts State
Public Utilities Commission
40 State Street, Room 200
Boston, MA 02109
Tel: 617 725 2300
Fax: 617 725 2400



DATE	REVISIONS	BY	APP'D BY

CTB1X00077
 CT0203C030
 DANBURY
 HOSPITAL

24 HOSPITAL AVE
 DANBURY, CT 06820

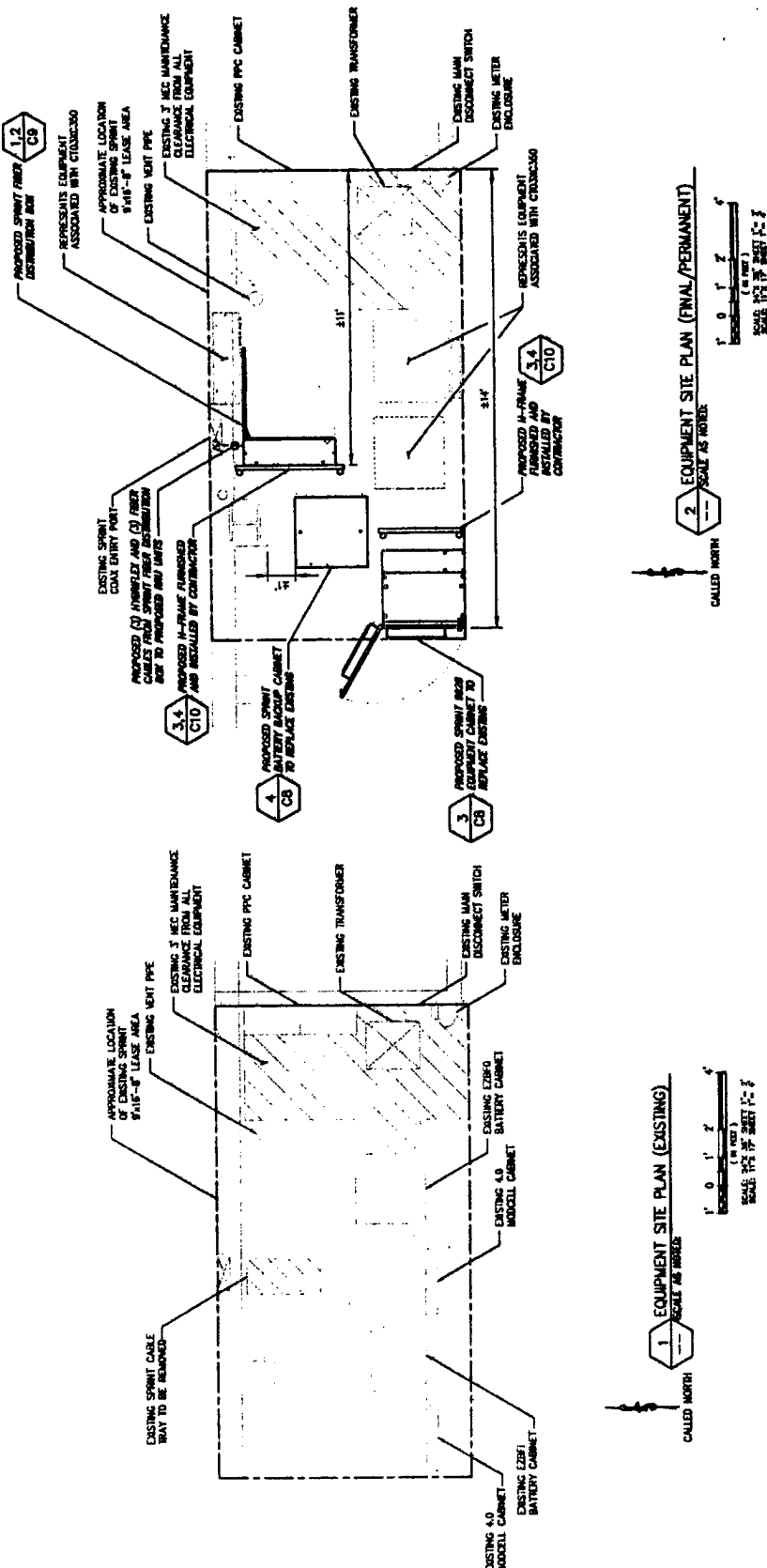
Project No: UN-58

DATE: 07/09/09



**EQUIPMENT SITE PLANS
 (CTB1X00077)**

C3



PLANNING PREPARED FROM A SITE VISIT PERFORMED BY WALSH, LLC AND INFORMATION PROVIDED BY SPRINT, AND DOES NOT REPRESENT AN ACTUAL FIELD SURVEY.



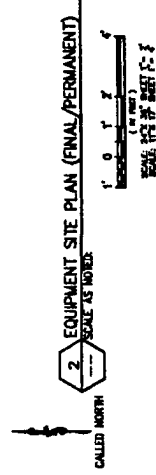
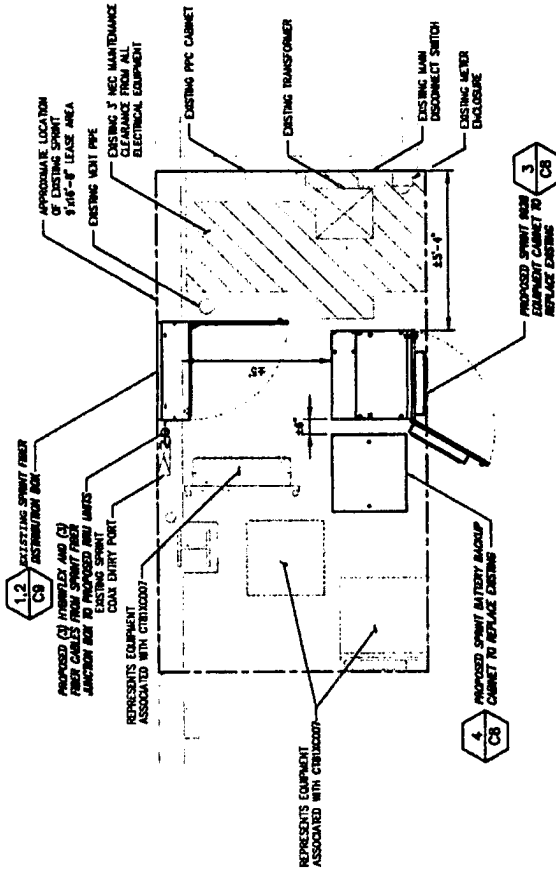
Project No.	Project Name	Date	By
2015-001	DANBURY HOSPITAL	12/15/2015	JWS
2015-002	DANBURY HOSPITAL	12/15/2015	JWS
2015-003	DANBURY HOSPITAL	12/15/2015	JWS
2015-004	DANBURY HOSPITAL	12/15/2015	JWS
2015-005	DANBURY HOSPITAL	12/15/2015	JWS

Rev.	Description	Date
1	Initial Issue	12/15/2015
2	Revised	12/15/2015
3	Revised	12/15/2015
4	Revised	12/15/2015

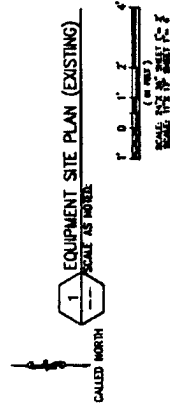
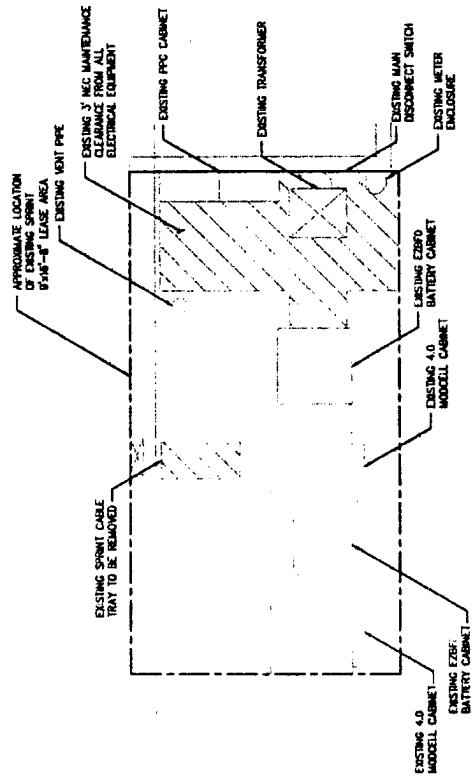
34 Hudson Street
 Danbury, CT 06810
 Sprint

EQUIPMENT SITE PLANS (GT03XC350)

C3A



2 EQUIPMENT SITE PLAN (FINAL/PERMANENT)
 SCALE AS NOTED



1 EQUIPMENT SITE PLAN (EXISTING)
 SCALE AS NOTED

ENGINEERING PREPARED FROM A SITE VISIT PERFORMED BY WALORE, LLC, AND DOES NOT REPRESENT AN ACTUAL FIELD SURVEY.

INFINIGY8

800-855-1111
2025 211
PO Box 1111
New York, NY 10001



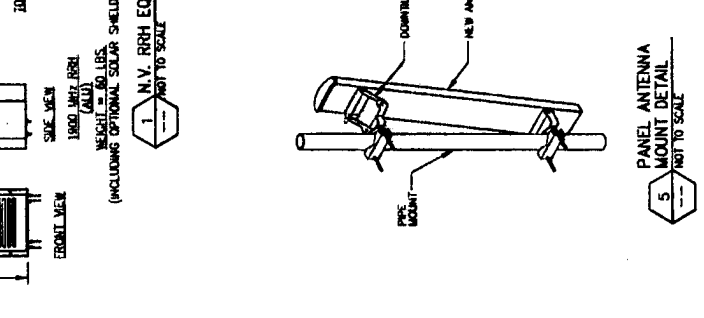
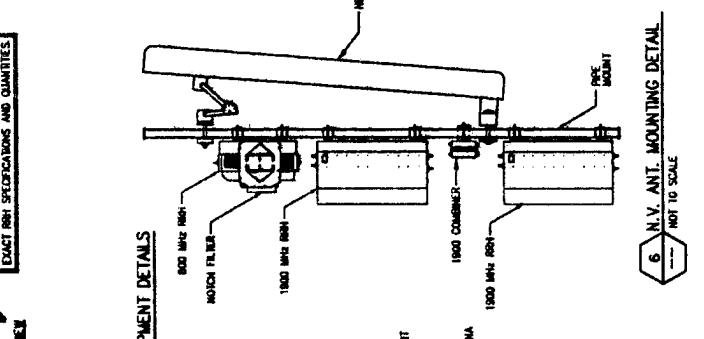
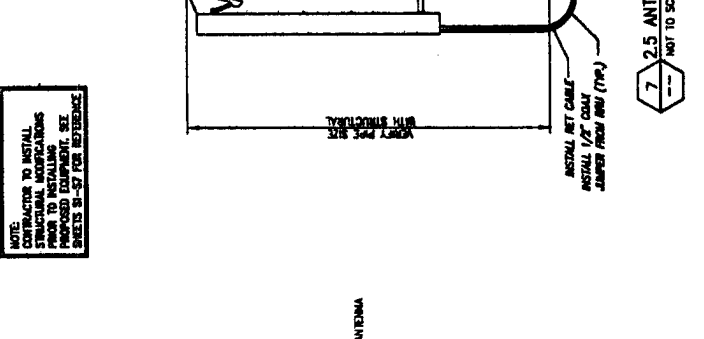
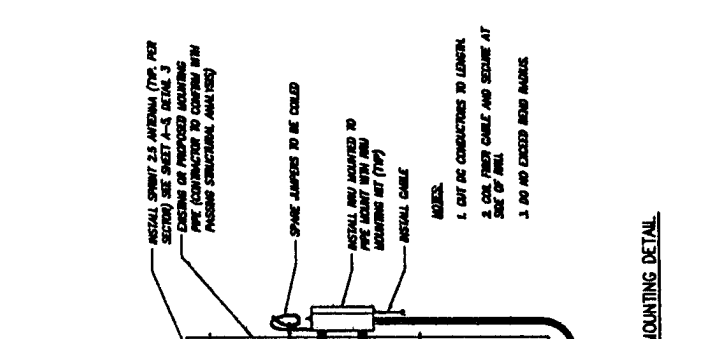
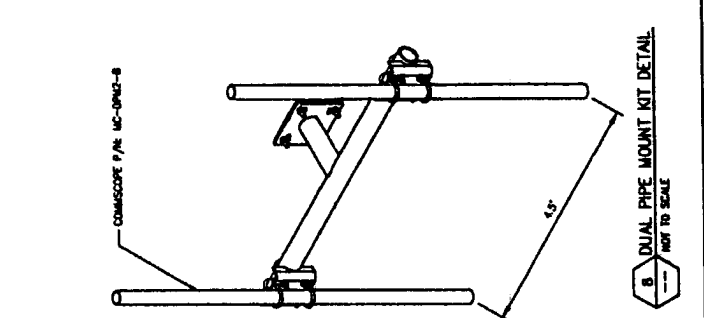
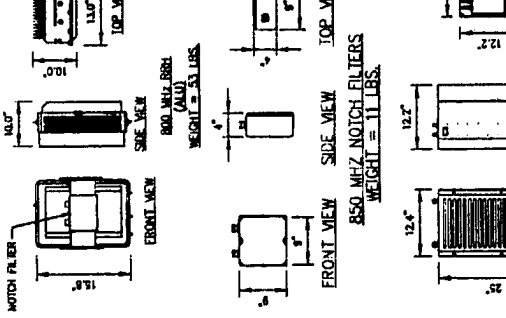
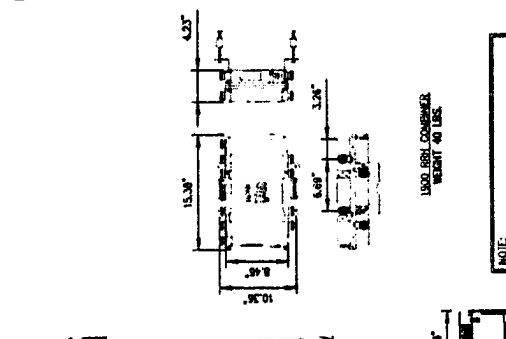
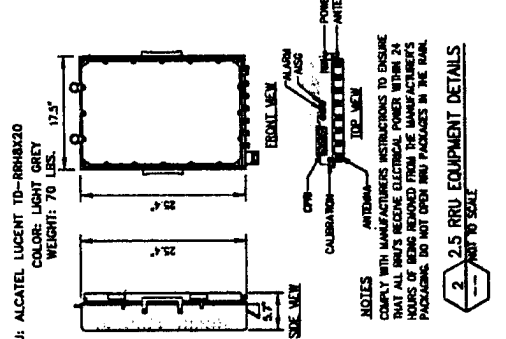
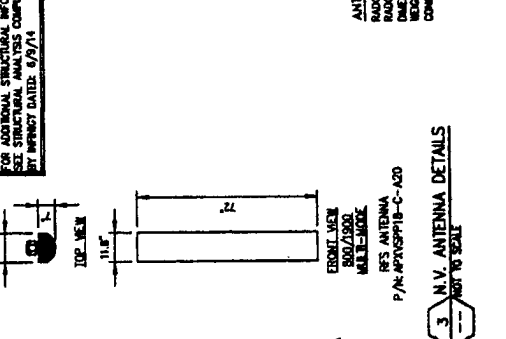
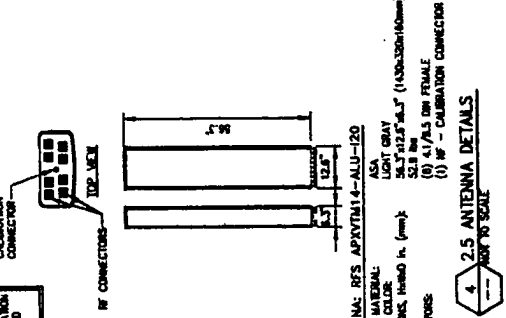
DATE	12/15/03
PROJECT	NEW YORK STATE THRUWAY AUTHORITY
CLIENT	NEW YORK STATE THRUWAY AUTHORITY
PROJECT NO.	17252
PROJECT NAME	NEW YORK STATE THRUWAY AUTHORITY
PROJECT ADDRESS	NEW YORK STATE THRUWAY AUTHORITY
PROJECT CITY	NEW YORK STATE THRUWAY AUTHORITY
PROJECT STATE	NEW YORK STATE THRUWAY AUTHORITY
PROJECT ZIP	NEW YORK STATE THRUWAY AUTHORITY
PROJECT PHONE	NEW YORK STATE THRUWAY AUTHORITY
PROJECT FAX	NEW YORK STATE THRUWAY AUTHORITY
PROJECT E-MAIL	NEW YORK STATE THRUWAY AUTHORITY
PROJECT WEBSITE	NEW YORK STATE THRUWAY AUTHORITY
PROJECT URL	NEW YORK STATE THRUWAY AUTHORITY
PROJECT DESCRIPTION	NEW YORK STATE THRUWAY AUTHORITY
PROJECT STATUS	NEW YORK STATE THRUWAY AUTHORITY
PROJECT TYPE	NEW YORK STATE THRUWAY AUTHORITY
PROJECT CATEGORY	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-CATEGORY	NEW YORK STATE THRUWAY AUTHORITY
PROJECT PHASE	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE DESCRIPTION	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE START DATE	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE END DATE	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE DURATION	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE STATUS	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE COMMENTS	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE NOTES	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE REFERENCES	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACTS	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT INFORMATION	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT PHONE	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT FAX	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT E-MAIL	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT WEBSITE	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT URL	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT DESCRIPTION	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT STATUS	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT COMMENTS	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT NOTES	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT REFERENCES	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT CONTACTS	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT CONTACT INFORMATION	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT CONTACT PHONE	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT CONTACT FAX	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT CONTACT E-MAIL	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT CONTACT WEBSITE	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT CONTACT URL	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT CONTACT DESCRIPTION	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT CONTACT STATUS	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT CONTACT COMMENTS	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT CONTACT NOTES	NEW YORK STATE THRUWAY AUTHORITY
PROJECT SUB-PHASE CONTACT CONTACT REFERENCES	NEW YORK STATE THRUWAY AUTHORITY

CTB13C0077
CTB03C050
DANBURY
HOSPITAL
24 HOSPITAL AVE
DANBURY, CT 06820



Antenna Mount Kit
ANTENNA
& RRH
DETAILS

C4



RRU: ALCATEL LUCENT TD-BRH4X20
COLOR: LIGHT GREY
WEIGHT: 70 LBS.

850 MHz NOTCH FILTERS
WEIGHT = 11 LBS.

1900 MHz RRU (AU)
WEIGHT = 43 LBS.

1900 MHz RRU (AU)
WEIGHT = 80 LBS.
(INCLUDING OPTIONAL SOLAR SHIELD)

NOTE: CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING PROPOSED EQUIPMENT. SEE SHEETS B-57 FOR REFERENCES.

INSTALL SPRINT 2.5 ANTENNA (TYP. PER SECTION) SEE SHEET A-3, DETAIL 3 EXISTING OR PROPOSED MOUNTING PIPE (CONTRACTOR TO CONFIRM WITH PASSING STRUCTURAL ANALYSIS)

SPARE JUMPS TO BE COILD

INSTALL RRH MOUNTED TO PIPE MOUNT WITH AN ANTI-RATTLE MOUNT KIT (TYP)

INSTALL CABLE

NOTES:

1. CABLE BE CONNECTED TO LENGTH
2. COIL FEED CABLE AND SECURE AT SIDE OF MOUNT
3. DO NOT EXCEED BEND RADIUS

NOTE: CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING PROPOSED EQUIPMENT. SEE SHEETS B-57 FOR REFERENCES.

INSTALL SPRINT 2.5 ANTENNA (TYP. PER SECTION) SEE SHEET A-3, DETAIL 3 EXISTING OR PROPOSED MOUNTING PIPE (CONTRACTOR TO CONFIRM WITH PASSING STRUCTURAL ANALYSIS)

SPARE JUMPS TO BE COILD

INSTALL RRH MOUNTED TO PIPE MOUNT WITH AN ANTI-RATTLE MOUNT KIT (TYP)

INSTALL CABLE

NOTES:

1. CABLE BE CONNECTED TO LENGTH
2. COIL FEED CABLE AND SECURE AT SIDE OF MOUNT
3. DO NOT EXCEED BEND RADIUS

NOTE: CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING PROPOSED EQUIPMENT. SEE SHEETS B-57 FOR REFERENCES.

INSTALL SPRINT 2.5 ANTENNA (TYP. PER SECTION) SEE SHEET A-3, DETAIL 3 EXISTING OR PROPOSED MOUNTING PIPE (CONTRACTOR TO CONFIRM WITH PASSING STRUCTURAL ANALYSIS)

SPARE JUMPS TO BE COILD

INSTALL RRH MOUNTED TO PIPE MOUNT WITH AN ANTI-RATTLE MOUNT KIT (TYP)

INSTALL CABLE

NOTES:

1. CABLE BE CONNECTED TO LENGTH
2. COIL FEED CABLE AND SECURE AT SIDE OF MOUNT
3. DO NOT EXCEED BEND RADIUS

NOTE: CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING PROPOSED EQUIPMENT. SEE SHEETS B-57 FOR REFERENCES.

INSTALL SPRINT 2.5 ANTENNA (TYP. PER SECTION) SEE SHEET A-3, DETAIL 3 EXISTING OR PROPOSED MOUNTING PIPE (CONTRACTOR TO CONFIRM WITH PASSING STRUCTURAL ANALYSIS)

SPARE JUMPS TO BE COILD

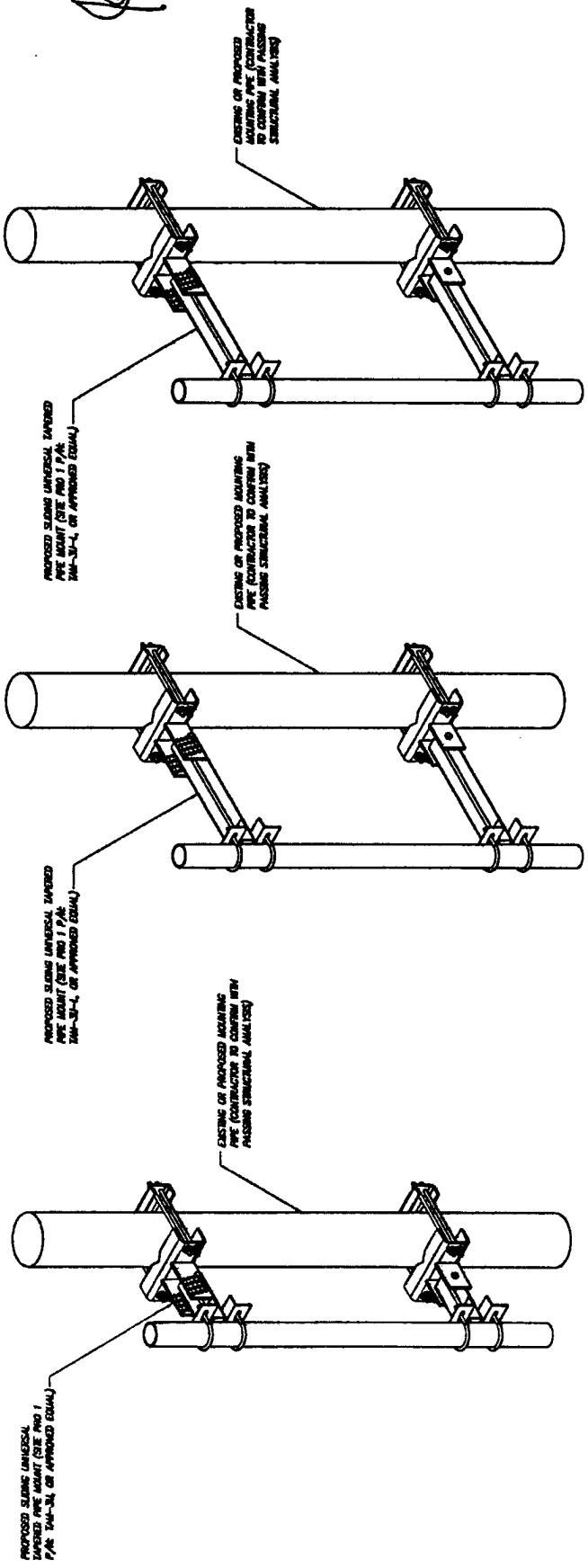
INSTALL RRH MOUNTED TO PIPE MOUNT WITH AN ANTI-RATTLE MOUNT KIT (TYP)

INSTALL CABLE

NOTES:

1. CABLE BE CONNECTED TO LENGTH
2. COIL FEED CABLE AND SECURE AT SIDE OF MOUNT
3. DO NOT EXCEED BEND RADIUS



NOTE:
 CONTRACTOR TO INSTALL
 STRUCTURAL MOUNTING
 PRIOR TO INSTALLING
 PROPOSED EQUIPMENT. SEE
 SHEETS 31-57 FOR REFERENCES



CTD3XC007 N.V. MOUNTING
 PIPE (GAMMA SECTOR ONLY)
 3 NOT TO SCALE

CTD3XC350 2.5 MOUNTING
 PIPE (BETA SECTOR ONLY)
 2 NOT TO SCALE

CTD3XC350 2.5 MOUNTING
 PIPE (GAMMA SECTOR ONLY)
 1 NOT TO SCALE

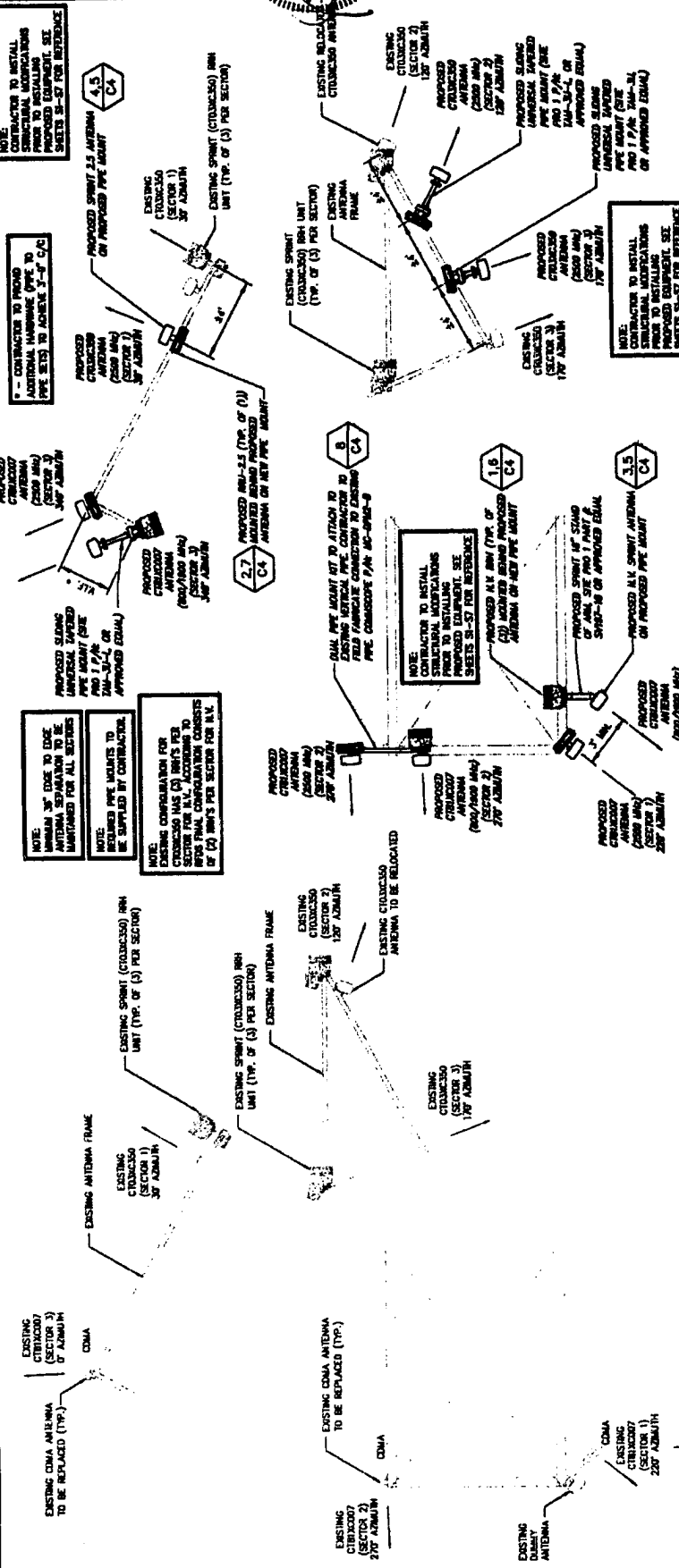
 STATE OF CONNECTICUT DEPARTMENT OF CONSTRUCTION DIVISION OF PERMITS	INFINIGY8 <small>2025 Connecticut Building Permit System Online Permitting System Permitting Fee: \$100</small>	PROJECT NO: 2024-001 PROJECT NAME: HOSPITAL PROJECT ADDRESS: DANBURY, CT 06810 PROJECT CONTACT: J. BROWN PROJECT PHONE: 203-755-1234 PROJECT FAX: 203-755-1234 PROJECT EMAIL: J.BROWN@HOSPITAL.COM	 Sprint <small>© 2025 Sprint Nextel. All rights reserved. Sprint, the Sprint logo, and the "It's all about the next" slogan are trademarks of Sprint Nextel Corporation. All other marks are the property of their respective owners.</small>	DETAILS Drawing Number: CTD3XC007	CAA Drawing Number: CTD3XC007
---	---	--	---	---	---



NO.	DESCRIPTION	QTY.	UNIT
1
2
3
4
5
6
7
8
9
10



Project Name: DANBURY HOSPITAL	
Contract No.:	DATE:
Job No.:	DATE:



- GENERAL NOTES:**
1. NEW SPRINT PANEL ANTENNAS TO MEET RF DESIGN REQUIREMENTS PER CRITS. PER APPROVED STRUCTURE ANALYSIS.
 2. CONTRACTOR TO PROVIDE EXISTING ANTENNA VERIFICATION AND TO INCLUDE MOUNTING HEIGHT, HAZ CENTER, TOP AND BOTTOM OF ANTENNA AND ADJUSTING FOR ALL ANTENNAS.
 3. CONTRACTOR SHALL VERIFY NEW PARTS BEFORE ORDERING.
 4. REFER TO SHEET C7 FOR ANTENNAS SPECS.
 5. CONTRACTOR TO USE PROPER TORQUE WRENCH WHEN INSTALLING AND TIGHTENING CONNECTORS TO INSURE PROPER FIT.
 6. ALL HYBRID CABLES SHALL BE WAXED WITHIN 24" OF THE END OF EACH CABLE WITH 7" WIDE WYTH TAPE. THIS INCLUDES ALL JAMPERS AND MAIN LINE HYBRID CABLE.
 7. CMA ANTENNAS SHALL NOT BE REMOVED UNTIL ALL NEW WAX-TAPE ANTENNAS ARE INSTALLED AND ON-AIR.
- NOTES:**
- CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING ANTENNAS. SEE SHEETS S1-S7 FOR REFERENCE.
- CONTRACTOR TO PROVIDE ADDITIONAL HARDWARE (PIPE TO PROTECT WIRE) TO ACHIEVE 5'-0" C/C.
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 1) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 2) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 3) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 4) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 5) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 6) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 7) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 8) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 9) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 10) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 11) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 12) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 13) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 14) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 15) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 16) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 17) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 18) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 19) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 20) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 21) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 22) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 23) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 24) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 25) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 26) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 27) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 28) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 29) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 30) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 31) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 32) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 33) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 34) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 35) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 36) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 37) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 38) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 39) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 40) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 41) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 42) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 43) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 44) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 45) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 46) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 47) 30' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 48) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 49) 120' ADJ.M/H
- PROPOSED SPRINT 2.5 ANTENNA (SECTOR 50) 30' ADJ.M/H

NOTE: JAMPERS FROM 2.5 INU TO 2.5 ANTENNA SHALL BE REMOVED AND REPLACED WITH STRUCTURAL ANALYSIS BY CRITS PRIOR TO ANY CONSTRUCTION.

NOTE: INFINIGY ENGINEERING HAS NOT EVALUATED THE EXISTING STRUCTURE FOR THE SITE, AND ASSUMES STRUCTURAL ANALYSIS BY CRITS PRIOR TO ANY CONSTRUCTION.

Part A
 Project Name: CTB1XC007 - Tower Back Site
 Project Location: 50 Mpls
 Project Manager: APMW | METL | GAWWA
 Project Engineer: APMW | METL | GAWWA

Part B
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part C
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part D
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part E
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part F
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part G
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part H
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part I
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part J
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part K
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part L
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part M
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part N
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part O
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part P
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part Q
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part R
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part S
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part T
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part U
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part V
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part W
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part X
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part Y
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part Z
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

Part AA
 Antenna Configuration
 Antenna Model: 380 S
 Antenna Height: 111.8
 Antenna Azimuth: 0
 Antenna Tilt: 0
 Antenna Backhaul: 4.12
 Antenna Power: 200/1000
 Antenna Frequency: 1900/1900

NOTE: REFER TO INSTALLATION MANUAL FOR ALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING PROPOSED EQUIPMENT. SEE SHEETS S1-S7 FOR REFERENCE.



CTB1XC007
 CTB1XC007
 DANBURY HOSPITAL
 24 HOSPITAL AVE
 DANBURY, CT 06810

CTB1XC007 RIFDS

C6

If a site is going to be launch with 100/1.11E 3000 Mhz will be sufficient. If a site is getting 2.5-3m 1000 Mhz should be ordered. The equipment access will be 1/2 mile over and above will be segments as traffic increases.



Project Name: **CT103XC350 DANBURY HOSPITAL**
24 HOSPITAL AVE
DANBURY, CT 06810
Sprint

Contract No: **CT103XC350 RFDS**
Sheet No: **C6A**

Part C

Element: Backhaul Site
Special Construction Requirements: 50 Mbps

Addressed RF Notes:

ALPHA: | BETA: | GAMMA:

Part D

RF Power Quantity

Per Ground Mount	Per Ground Mount	Per Ground Mount	Per Ground Mount
8000 Radio Combinations 30	8000 Radio Combinations 30	8000 Radio Combinations 30	8000 Radio Combinations 30
1500 Radio Combinations LTE	1500 Radio Combinations LTE	1500 Radio Combinations LTE	1500 Radio Combinations LTE
2-3 MHz (100%) LTE	2-3 MHz (100%) LTE	2-3 MHz (100%) LTE	2-3 MHz (100%) LTE

Part E

RF 2.5 GHz	RF 2.5 GHz	RF 2.5 GHz	RF 2.5 GHz
30 500	30 500	30 500	30 500
30 1900 MHz A - F Voice	30 1900 MHz A - F Voice	30 1900 MHz A - F Voice	30 1900 MHz A - F Voice
30 1900 MHz A - F Data	30 1900 MHz A - F Data	30 1900 MHz A - F Data	30 1900 MHz A - F Data
30 1900 MHz A - F Voice	30 1900 MHz A - F Voice	30 1900 MHz A - F Voice	30 1900 MHz A - F Voice
30 1900 MHz A - F Data	30 1900 MHz A - F Data	30 1900 MHz A - F Data	30 1900 MHz A - F Data

Part A

CT103XC350 - Tower Back Site

RF Designer: Steven
Main Information:
Contract: N/A
Site Name: DANBURY HOSPITAL
Site Address: 24 HOSPITAL AVE DANBURY, CT 06810
Site Number: 1 or 2 (for more than 3 sectors site)
RF Power: 50 Mbps
RF Notes: N/A
Project Description: Backhaul Site

Part B

Location Information

Longitude (N.S. decimal places)	-71.448972
Latitude (E.S. decimal places)	41.404972
Address	24 Hospital Lane
City, State, Zip Code	Danbury, CT 06810

Part B

Antenna 1 Configuration

Antenna Model	Antenna Height (ft)	Antenna Diameter (ft)	Antenna Length (ft)
AP9251P11-C-620	155.0	72	72
AP9251P11-C-620	120.0	72	72

Antenna 2 Configuration

Antenna Model	Antenna Height (ft)	Antenna Diameter (ft)	Antenna Length (ft)
AP9251P11-C-620	155.0	72	72
AP9251P11-C-620	120.0	72	72

If a site is going to be built with 50 Mbps LTE then 50 Mbps will be sufficient. If a site is getting 2.5 then 100 Mbps should be ordered. The segment process will then take over and Ethernet will be segments as traffic increases.

NOTE: CONTRACTOR TO INSTALL STRUCTURAL MODIFICATIONS PRIOR TO INSTALLING EQUIPMENT. SEE SHEETS SA-57 FOR REFERENCE.



01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Project No: _____
 Project Title: _____
 CTS1XC007/
 CTS1XC054/
 DANBURY
 HOSPITAL



31 HORTON AVE
 DANBURY, CT 06810

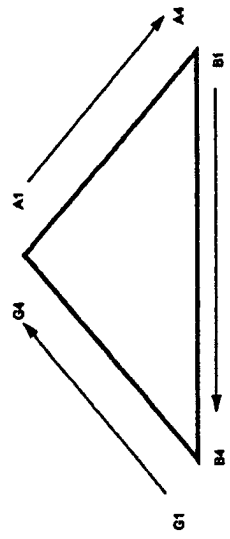
2.5 COLOR
 CODING

2.5 Band	2500 Radio 1	COLOR
	1	YEL
	2	WHT
	3	YEL
	4	WHT
	5	YEL
	6	WHT
	7	YEL
	8	WHT

HYBRID	COLOR
1	YEL
2	WHT
3	YEL
4	WHT
5	YEL
6	WHT
7	YEL
8	WHT

BAND	INDICATOR	PORT	COLOR
800-1	YEL	NV-1	YEL
1900-1	YEL	NV-2	WHT
1900-2	YEL	NV-3	YEL
1900-3	YEL	NV-4	WHT
1900-4	YEL	NV-5	YEL
1900-5	YEL	NV-6	WHT
800-2	YEL	NV-7	YEL
SPARE	YEL	NV-8	WHT
25100	YEL	NV-9	WHT

Figure 1: Antenna Orientation

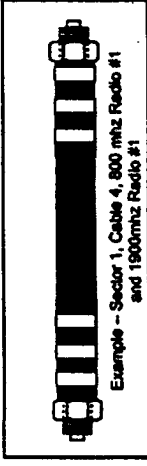
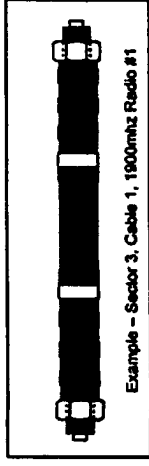
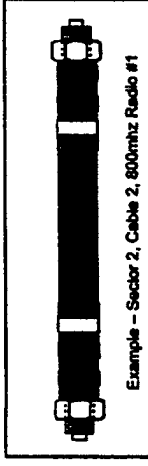


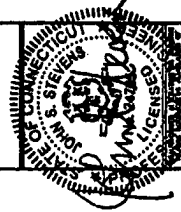
- NOTES:**
- ALL CABLES SHALL BE MARKED WITH 2" VIDE, UV STABILIZED, UL APPROVED TAPE.
 - THE FIRST RING SHALL BE CLOSEST TO THE END OF THE CABLE AND SPACED APPROXIMATELY 2" FROM THE END CONNECTOR, WEATHERPROOFING OR BREAK-OUT CYLINDER. THERE SHALL BE A 1" SPACE BETWEEN EACH RING FOR THE CABLE IDENTIFIER, AND NO SPACES BETWEEN THE FREQUENCY BANDS.
 - A 2" GAP SHALL SEPARATE THE CABLE COLOR CODE FROM THE FREQUENCY COLOR CODE. THE 2" COLOR RINGS FOR THE FREQUENCY CODE SHALL BE PLACED NEXT TO EACH OTHER WITH NO SPACES.
 - THE 2" COLORED TAPE SHOULD BE WRAPPED A MINIMUM OF 3 TIMES AROUND THE INDIVIDUAL CABLES, AND THE TAPE SHALL BE KEPT IN THE SAME LOCATION AS MUCH AS POSSIBLE.
 - SITES WITH MORE THAN FOUR (4) SECTORS WILL REQUIRE ADDITIONAL RINGS FOR EACH SECTOR, FOLLOWING THE PATTERN HIGH CAPACITY SITES WILL USE THE NEXT COLOR IN THE SEQUENCE FOR ADDITIONAL CABLES IN EACH SECTOR.
 - HYBRID FIBER CABLE SHALL BE IDENTIFIED INSIDE THE CANNON ON FREQUENCY BANDS, ON THE SEAL/TITE, ON THE MAIN LINE UPON EXIT OF SEAL/TITE, AND BEFORE AND AFTER THE BREAKOUT UNIT (OR) AS WELL AS BEFORE AND AFTER ANY ENTRANCE OR EXIT.
 - IF "MAIN TRUNK" WILL NOT BE MARKED WITH THE FREQUENCY CODES, AS IT CONTAINS ALL FREQUENCIES.
 - INDIVIDUAL POWER PANS AND FIBER BUNDLES SHALL BE LABELED WITH BOTH THE CABLE AND FREQUENCY.

Sector	Cable	First Ring	Second Ring	Third Ring
1 Alpha	1	No Tape	No Tape	No Tape
1	2	No Tape	No Tape	No Tape
1	3	No Tape	No Tape	No Tape
1	4	White	No Tape	No Tape
1	5	No Tape	No Tape	No Tape
1	6	Grey	No Tape	No Tape
1	7	No Tape	No Tape	No Tape
1	8	No Tape	No Tape	No Tape
2 Beta	1	No Tape	No Tape	No Tape
2	2	No Tape	No Tape	No Tape
2	3	No Tape	No Tape	No Tape
2	4	White	No Tape	No Tape
2	5	No Tape	No Tape	No Tape
2	6	Grey	No Tape	No Tape
2	7	No Tape	No Tape	No Tape
2	8	No Tape	No Tape	No Tape
3 Gamma	1	No Tape	No Tape	No Tape
3	2	No Tape	No Tape	No Tape
3	3	No Tape	No Tape	No Tape
3	4	White	No Tape	No Tape
3	5	No Tape	No Tape	No Tape
3	6	Grey	No Tape	No Tape
3	7	No Tape	No Tape	No Tape
3	8	No Tape	No Tape	No Tape

NV	FREQUENCY	INDICATOR	ID
800-1	YEL	YEL	WHT
1900-1	YEL	YEL	WHT
1900-2	YEL	YEL	WHT
1900-3	YEL	YEL	WHT
1900-4	YEL	YEL	WHT
800-1	YEL	YEL	WHT
RESERVED	YEL	YEL	WHT
RESERVED	YEL	YEL	WHT

2.5	FREQUENCY	INDICATOR	ID
2500-1	YEL	WHT	WHT
2500-2	YEL	WHT	WHT
2500-3	YEL	WHT	WHT
2500-4	YEL	WHT	WHT
2500-5	YEL	WHT	WHT
2500-6	YEL	WHT	WHT
2500-7	YEL	WHT	WHT
2500-8	YEL	WHT	WHT





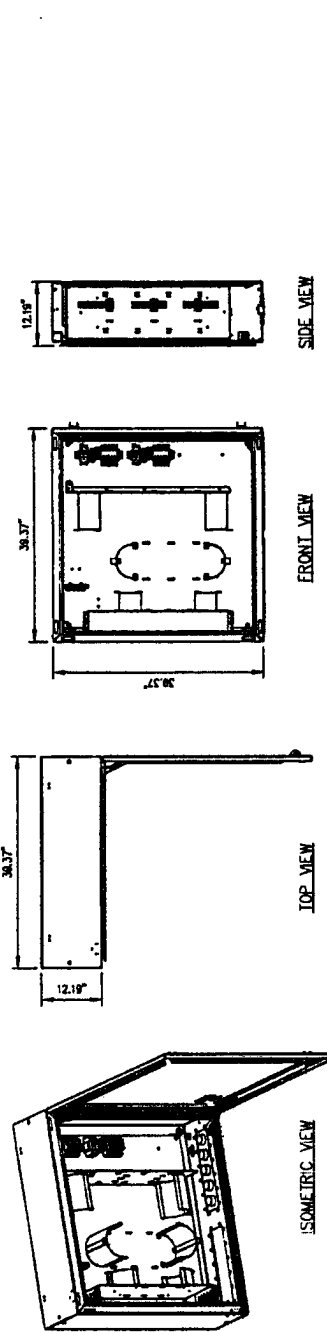
NO.	DESCRIPTION	QUANTITY	UNIT
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50

PROJECT NO: 07010007
 CITY: DANBURY
 COUNTY: CT 06810

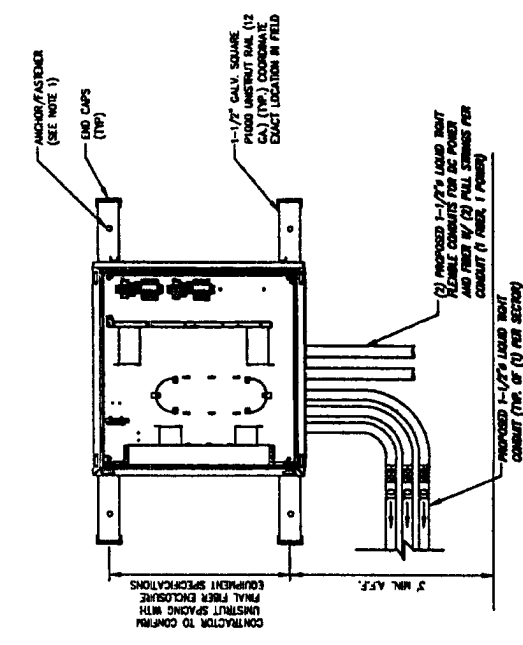


Equipment Name	...
Location	...
Date	...
Drawn By	...
Checked By	...

EQUIPMENT DETAILS
 C89



1 DISTRIBUTION BOX DETAIL
 NOT TO SCALE

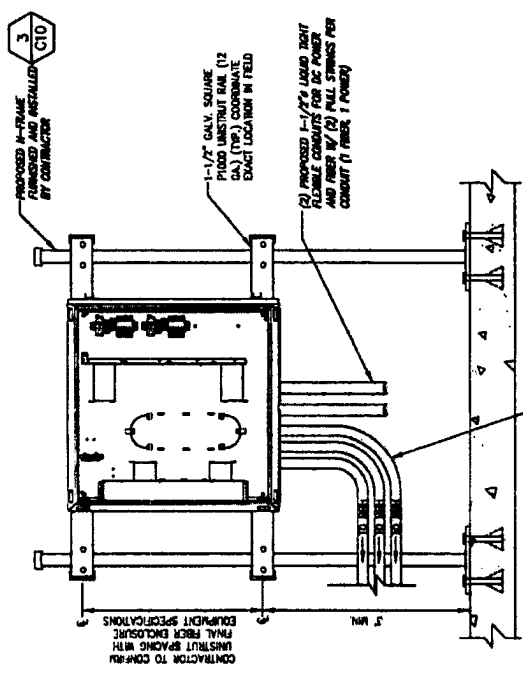


- INSTALL ANCHORS/FASENERS A MAXIMUM OF 2'-0" ON CENTERS.
 - WOOD STUDS - 1/4" LAG BOLT W/ 1" EMBEDMENT IN WOOD
 - CONCRETE - 1/4" H.L.T. BOLT W/ 1-1/2" EMBEDMENT OR EQUIVALENT THROUGH BOLT - 1/4" AN/307 THREADED ROD W/ NUTS AND WASHERS
- ANCHORS AND UNISTRUT CHANNEL SHALL HAVE HOT-DIPPED GALVANIZED FINISH.
- MOUNT FIBER AND POWER DISTRIBUTION BOX WITH FOUR (4) 1/4" UNISTRUT BOLTING WITH HARDWARE AND SPRING NUTS.

3 DISTRIBUTION BOX ON EXISTING WALL
 NOT TO SCALE



2 TYPICAL DISTRIBUTION BOX ON H-FRAME DETAIL
 NOT TO SCALE



- NOTE:
- ANCHORS AND UNISTRUT CHANNEL SHALL HAVE HOT-DIPPED GALVANIZED FINISH.
 - MOUNT FIBER AND POWER DISTRIBUTION BOX WITH HARDWARE AND SPRING NUTS.

2 TYPICAL DISTRIBUTION BOX ON H-FRAME DETAIL
 NOT TO SCALE

NOTE:

- DISTRIBUTION BOX IS NOTED WITH 50° OF 1-1/2" LIQUID-TIGHT CONDUIT AND CONNECTORS. THIS SHOULD BE SPLIT IN HALF.
- RAN TO AND COILED AS CLOSE TO WHERE THE CABINET IS GOING TO BE MOUNTED AS POSSIBLE.
- DISTRIBUTION BOX IS NOTED WITH 2 AWG. POWER CABLE 35' x 2EA. RUNS RED AND 2EA. RUNS BLACK. THIS SHOULD BE COILED AND LEFT INSIDE DISTRIBUTION BOX.
- ITS INSTALLATION TEAM WILL TERMINATE LIQUID-TIGHT RUN THE FIBER JUMPS AND POWER CABLES FROM ITS CABINET TO DISTRIBUTION BOX.

INFINIGY&

3000 West 20th St
 50521 AM Tarrytown
 NY 10591



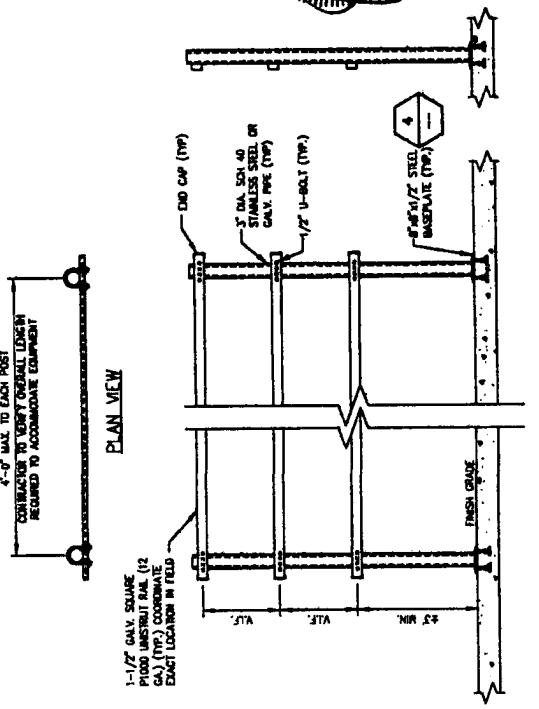
Project No.	23833
Client	CT103XC0077 CT103XC0350 DANBURY HOSPITAL
Project Name	24 HOSPITAL AVE DANBURY, CT 06810



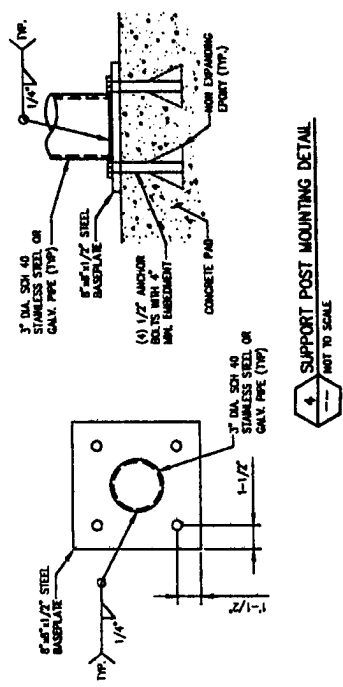
Contract No.
 Job No.
 Date
 1/20/14

DETAILS

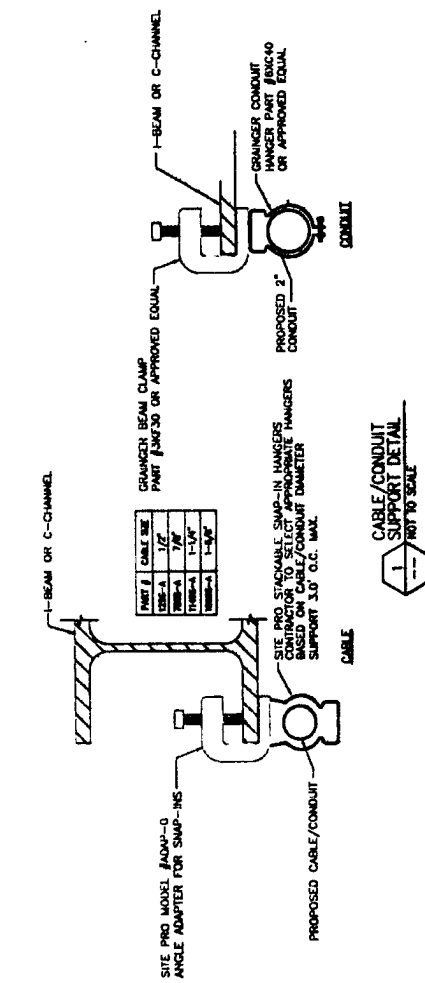
C10



3 H-FRAME FABRICATION DETAIL
 NOT TO SCALE



4 SUPPORT POST MOUNTING DETAIL
 NOT TO SCALE



1 CABLE/CONDUIT SUPPORT DETAIL
 NOT TO SCALE

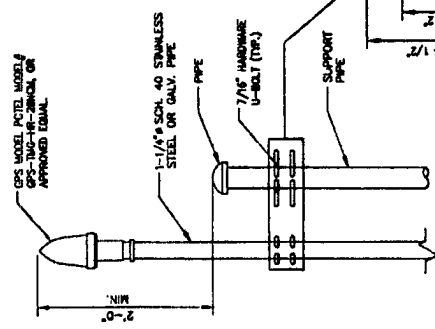
GPS MINIMUM SKY VIEW REQUIREMENTS

NOTES:

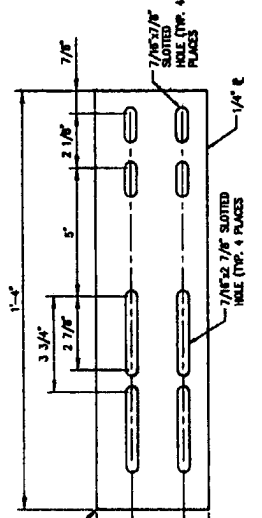
- THE ELEVATION AND LOCATION OF THE GPS ANTENNA SHALL BE IN ACCORDANCE WITH THE FINAL ARCHITECTURAL DRAWINGS.
- THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1-1/4\"/>

NOTES:

CONTRACTOR TO FIELD VERIFY GPS LOCATION.



2 GPS ANTENNA DETAIL
 NOT TO SCALE



GPS ANTENNA DETAIL
 NOT TO SCALE

INFINIGY

2008 Universal Service Fund
 2008 Universal Service Fund
 2008 Universal Service Fund
 2008 Universal Service Fund



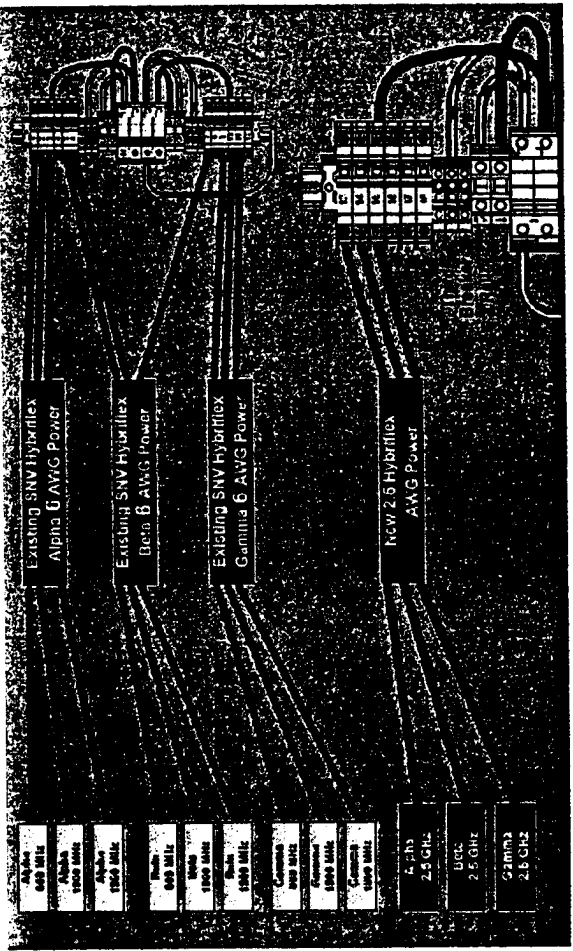
Project Name	2.5 GHz
Project No.	11202
Project Date	11/20/08
Project Status	Final
Project Location	24 HOSPITAL AVE DANBURY, CT 06819
Project Description	2.5 GHz Hybridflex AWG Power
Project Engineer	Steven S. Strifens
Project Designer	Steven S. Strifens
Project Checker	Steven S. Strifens
Project Approver	Steven S. Strifens
Project Date	11/20/08
Project Version	1.0
Project Revision	1.0
Project Change	1.0
Project Issue	1.0
Project Release	1.0
Project Approval	1.0
Project Sign-off	1.0
Project Close	1.0

Project No. 11202
 Project Name 2.5 GHz Hybridflex AWG Power
 Project Location 24 HOSPITAL AVE DANBURY, CT 06819
 Project Designer Steven S. Strifens
 Project Checker Steven S. Strifens
 Project Approver Steven S. Strifens
 Project Date 11/20/08
 Project Version 1.0
 Project Revision 1.0
 Project Change 1.0
 Project Issue 1.0
 Project Release 1.0
 Project Approval 1.0
 Project Sign-off 1.0
 Project Close 1.0



Project No. 11202
 Project Name 2.5 GHz Hybridflex AWG Power
 Project Location 24 HOSPITAL AVE DANBURY, CT 06819
 Project Designer Steven S. Strifens
 Project Checker Steven S. Strifens
 Project Approver Steven S. Strifens
 Project Date 11/20/08
 Project Version 1.0
 Project Revision 1.0
 Project Change 1.0
 Project Issue 1.0
 Project Release 1.0
 Project Approval 1.0
 Project Sign-off 1.0
 Project Close 1.0

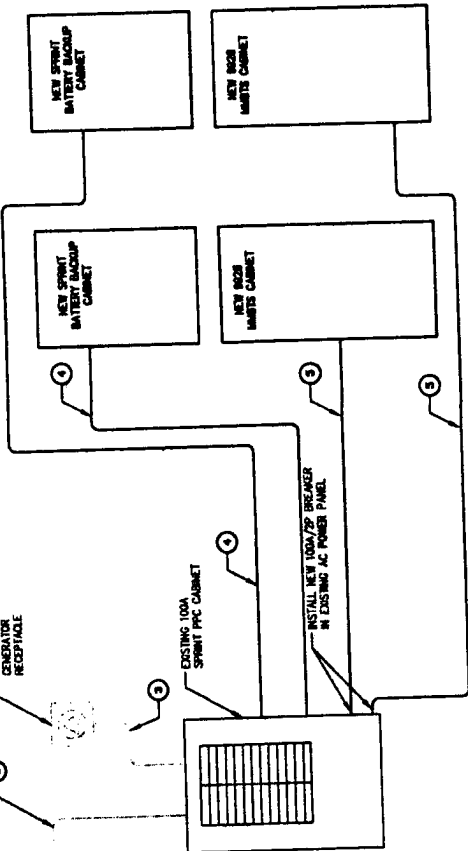
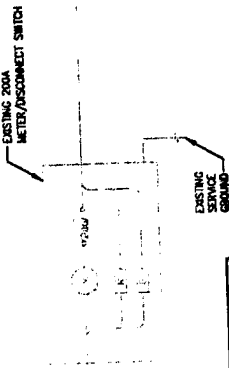
Project No. 11202
 Project Name 2.5 GHz Hybridflex AWG Power
 Project Location 24 HOSPITAL AVE DANBURY, CT 06819
 Project Designer Steven S. Strifens
 Project Checker Steven S. Strifens
 Project Approver Steven S. Strifens
 Project Date 11/20/08
 Project Version 1.0
 Project Revision 1.0
 Project Change 1.0
 Project Issue 1.0
 Project Release 1.0
 Project Approval 1.0
 Project Sign-off 1.0
 Project Close 1.0



1 2.5 CONNECTION DETAILS
 NOT TO SCALE

NOTES:
 1. REFER TO ALL SPECS FOR
 DC. SEE INSTANTANEOUS
 SUPPLY THE POWER SUPPLY
 OF THE NEW INSTALLATION DOCUMENTS.
 FOR ALL CONNECTION SPECIFICATIONS.

CIRCUIT SCHEDULE		CONFIGURATION
NO	FROM	TO
1	UTILITY SOURCE	METER/DISCONNECT
2	METER/DISCONNECT	TRANSFER & LOAD CENTER
3	TRANSFER & LOAD CENTER	GENERATOR RECEPTACLE
4	TRANSFER & LOAD CENTER	INSTALL SPRINT BATTERY BACKUP CABINET
5	TRANSFER & LOAD CENTER	INSTALL SPRINT BATTERY BACKUP CABINET

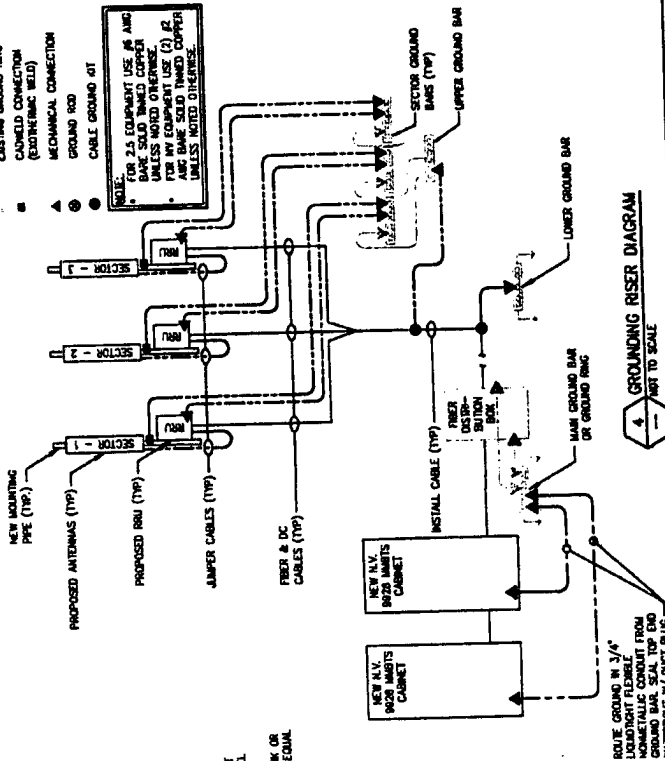


1 ELECTRICAL ONE-LINE DIAGRAM
 NOT TO SCALE

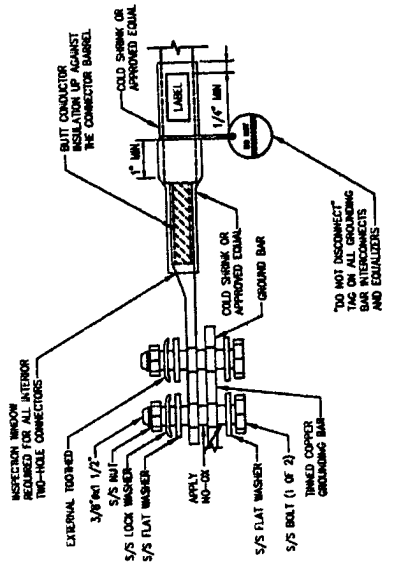
LEGEND:

- EXISTING GROUND RING
- CABLED CONNECTION (ELECTROMAGNETIC WELD)
- ▲ MECHANICAL CONNECTION
- GROUND ROD
- △ CABLE GROUND OT

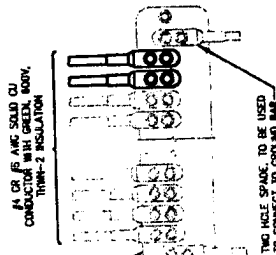
NOTE:
 FOR 2.5 EQUIPMENT USE #4 AWG BARE COPPER UNLESS NOTED OTHERWISE.
 FOR ANY EQUIPMENT USE (2) #2 AWG BARE SILED THINW G COPPER UNLESS NOTED OTHERWISE.



4 GROUNDING RISER DIAGRAM
 NOT TO SCALE



3 TWO-HOLE LUG
 NOT TO SCALE



NOTES:
 1. APPLY NO-OX TO LUG AND BAR CONTACT SURFACE. DO NOT COAT INLINE LUG.
 2. IF STOLEN GROUND BARS ARE ENCOUNTERED, CONTACT SPRINT FOR REPLACEMENT PARKED RING KIT.

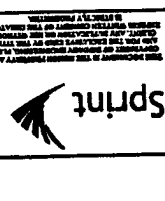
2 INSTALLATION OF GROUNDING CONDUCTOR TO GROUNDING BAR
 NOT TO SCALE

INFINIGY8



NO.	DESCRIPTION	DATE
1	DESIGN	11/11/11
2	REVISION	11/11/11
3	REVISION	11/11/11
4	REVISION	11/11/11
5	REVISION	11/11/11
6	REVISION	11/11/11
7	REVISION	11/11/11
8	REVISION	11/11/11
9	REVISION	11/11/11
10	REVISION	11/11/11

Project Name: CT81X0071
 CITIZENSCSO
 DANBURY
 HOSPITAL



Drawing Title	Author	Date
GROUNDING	JTS	11/11/11

ONE-LINE DIAGRAM AND DETAILS

E2

INFINIGY8

3025 Mountain Road
PO Box 675
Hartford, CT 06102-0675



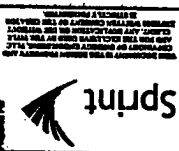
NO.	DATE	DESCRIPTION
1	01/23/07	ISSUED FOR PERMITS
2	02/01/07	ISSUED FOR PERMITS
3	02/01/07	ISSUED FOR PERMITS
4	02/01/07	ISSUED FOR PERMITS
5	02/01/07	ISSUED FOR PERMITS
6	02/01/07	ISSUED FOR PERMITS
7	02/01/07	ISSUED FOR PERMITS
8	02/01/07	ISSUED FOR PERMITS
9	02/01/07	ISSUED FOR PERMITS
10	02/01/07	ISSUED FOR PERMITS
11	02/01/07	ISSUED FOR PERMITS
12	02/01/07	ISSUED FOR PERMITS
13	02/01/07	ISSUED FOR PERMITS
14	02/01/07	ISSUED FOR PERMITS
15	02/01/07	ISSUED FOR PERMITS
16	02/01/07	ISSUED FOR PERMITS
17	02/01/07	ISSUED FOR PERMITS
18	02/01/07	ISSUED FOR PERMITS
19	02/01/07	ISSUED FOR PERMITS
20	02/01/07	ISSUED FOR PERMITS
21	02/01/07	ISSUED FOR PERMITS
22	02/01/07	ISSUED FOR PERMITS
23	02/01/07	ISSUED FOR PERMITS
24	02/01/07	ISSUED FOR PERMITS
25	02/01/07	ISSUED FOR PERMITS
26	02/01/07	ISSUED FOR PERMITS
27	02/01/07	ISSUED FOR PERMITS
28	02/01/07	ISSUED FOR PERMITS
29	02/01/07	ISSUED FOR PERMITS
30	02/01/07	ISSUED FOR PERMITS
31	02/01/07	ISSUED FOR PERMITS
32	02/01/07	ISSUED FOR PERMITS
33	02/01/07	ISSUED FOR PERMITS
34	02/01/07	ISSUED FOR PERMITS
35	02/01/07	ISSUED FOR PERMITS
36	02/01/07	ISSUED FOR PERMITS
37	02/01/07	ISSUED FOR PERMITS
38	02/01/07	ISSUED FOR PERMITS
39	02/01/07	ISSUED FOR PERMITS
40	02/01/07	ISSUED FOR PERMITS
41	02/01/07	ISSUED FOR PERMITS
42	02/01/07	ISSUED FOR PERMITS
43	02/01/07	ISSUED FOR PERMITS
44	02/01/07	ISSUED FOR PERMITS
45	02/01/07	ISSUED FOR PERMITS
46	02/01/07	ISSUED FOR PERMITS
47	02/01/07	ISSUED FOR PERMITS
48	02/01/07	ISSUED FOR PERMITS
49	02/01/07	ISSUED FOR PERMITS
50	02/01/07	ISSUED FOR PERMITS

Project Name: **CTH010077
CITY/STATE
DANBURY
HOSPITAL**

Project Number: **12656**

Client: **SPRINT**

Site: **24 HOSPITAL AVE
DANBURY, CT 06820**



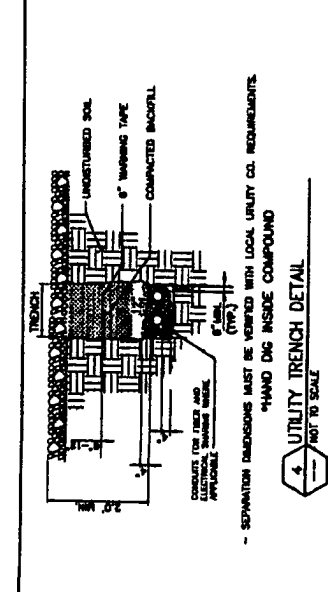
Project No. **12656**

Revision No. **1**

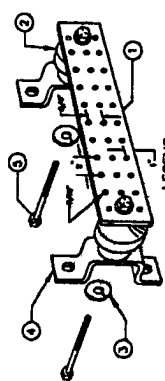
Date: **07/01/07**

ONE-LINE
DIAGRAM
AND DETAILS

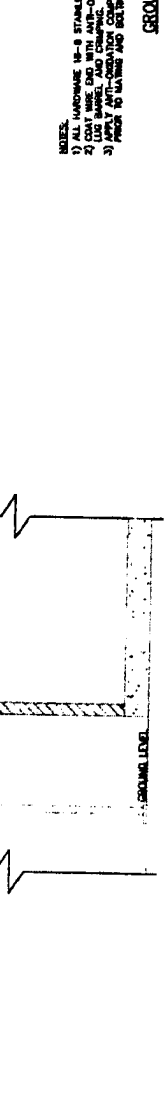
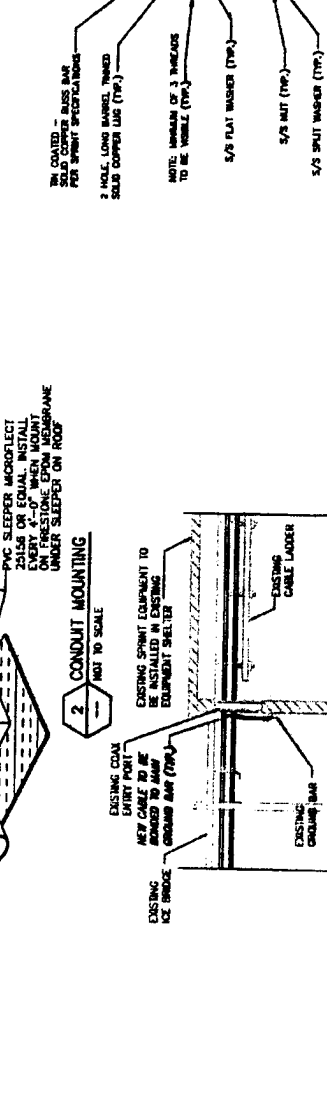
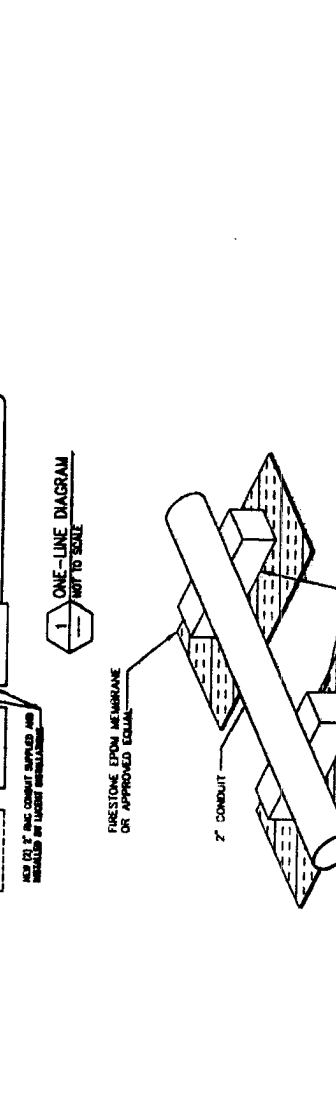
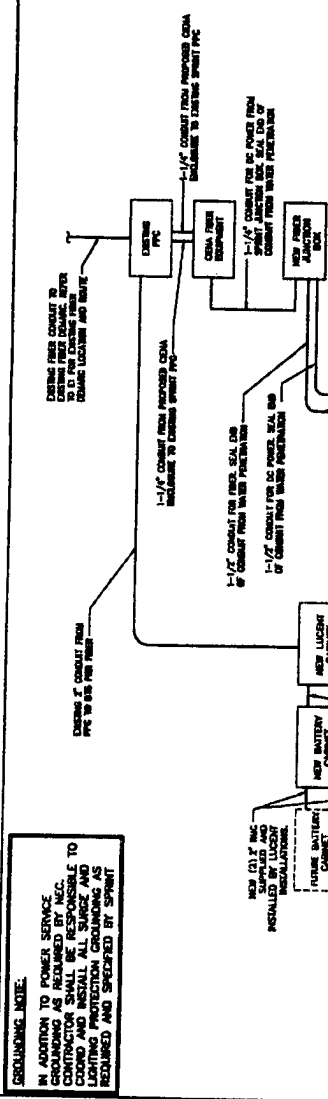
Sheet No. **E3**



SPERMATION DIMENSIONS MUST BE VERIFIED WITH LOCAL UTILITY CO. REQUIREMENTS.
HAND DIG INSIDE COMPOUND



1. 2" DIA. COPPER GROUND BAR, 1/2" x 1/4" x 1/4" NETWORK INSTRUMENT AREA DOUBLE LUG CONNECTION.
2. 1/2" DIA. COPPER GROUND BAR, 1/2" x 1/4" x 1/4" NETWORK INSTRUMENT AREA DOUBLE LUG CONNECTION.
3. 1/2" DIA. COPPER GROUND BAR, 1/2" x 1/4" x 1/4" NETWORK INSTRUMENT AREA DOUBLE LUG CONNECTION.
4. 1/2" DIA. COPPER GROUND BAR, 1/2" x 1/4" x 1/4" NETWORK INSTRUMENT AREA DOUBLE LUG CONNECTION.
5. 1/2" DIA. COPPER GROUND BAR, 1/2" x 1/4" x 1/4" NETWORK INSTRUMENT AREA DOUBLE LUG CONNECTION.

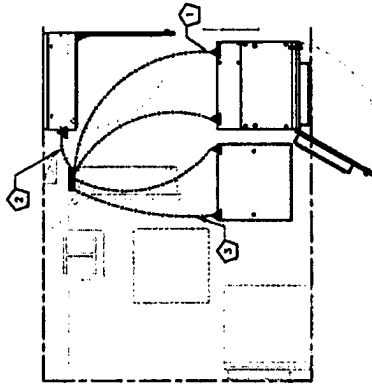


GROUNDING NOTE:
IN ADDITION TO POWER SERVICE GROUNDING AS REQUIRED BY IAC, CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND INSTALL ALL SURGE AND LIGHTNING PROTECTION DEVICES AS REQUIRED AND SPECIFIED BY SPRINT

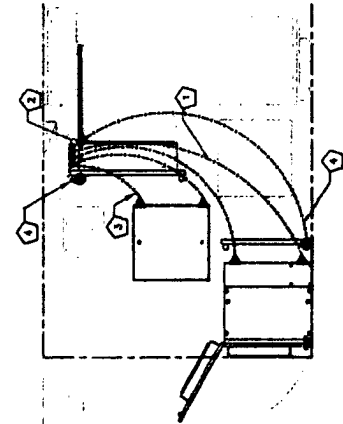
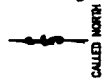
- NOTES:
- 1) ALL HARDWARE 16-8 STAINLESS STEEL INCLUDING SPLIT WASHERS.
 - 2) CON. WIRE END WITH ANT-OXIDATION COMPOUND PRIOR TO INSERTION INTO.
 - 3) APPLY ANT-OXIDATION COMPOUND BETWEEN ALL LUGS AND BARE BARS PRIOR TO TIGHTENING AND DELTINE.

GROUNDING NOTES:

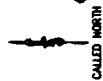
1. ALL DOWN CONDUCTORS AND GROUND RING CONDUCTOR SHALL BE #2 AWG. SOLID, BARE, TINNED COPPER, UNDO. ALL MECHANICAL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. CONDUCTORS SHALL BE AT LEAST 24 INCHES FROM ANY FOUNDATION, UNDO.
2. WHERE MECHANICAL CONDUCTOR CONNECTIONS ARE SPECIFIED, BOLTED, COMPRESSION-TYPE CLAMPS OR SPLIT-BOLT TYPE CONNECTORS SHALL BE USED.
3. GROUND OFF GALVANIZING IN AFFECTED AREA. EXOTHERMICALLY WELD #2 CONDUCTOR AT 6 INCHES ABOVE GRADE OR FOUNDATION, WHICHEVER IS HIGHER, COLD-GALVY AFTER EXOTHERMICALLY WELD OTHER END TO GROUND.
4. GROUND CONDUCTORS ON EXTERIOR WALL OF SHELTER SHALL BE ENCASED IN 3/4" PVC CONDUIT TO GRADE. MOUNT PVC WITH GALVANIZED "C" CLAMPS. SEAL TOP ENDS.
5. FOLLOWING COMPLETION OF WORK, CONDUCT GROUND TEST. WRITER TEST TO CONSTRUCTION MANAGER AND PROJECT MANAGER.
6. ALL GROUNDING WORK SHALL COMPLY WITH CARRIER(S) STANDARDS.
7. GROUNDING REQUIREMENTS SHOWN ON THIS PLAN ARE FOR ITEMS THAT ARE LOCATED NEAR GRADE LEVEL AND THAT NEED TO BE TIED TO THE BELOW GRADE GROUND RING.
8. UNLESS NOTED OTHERWISE, ALL GROUNDING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS FOR CELL "SITES" AND 3.018.10.002 "SITE RESISTANCE TO EARTH TESTING". ALL GROUNDING SHALL ALSO COMPLY WITH ALL STATE AND LOCAL CODES, AND THE NATIONAL ELECTRICAL CODE (NEC).
9. UNLESS NOTED OTHERWISE, ALL GROUNDING CONNECTIONS SHALL BE MADE BY AN EXOTHERMIC WELD.
10. RESISTANCE TO EARTH TESTING IS REQUIRED PER SPRINT STANDARDS ON ALL NEW SITES.



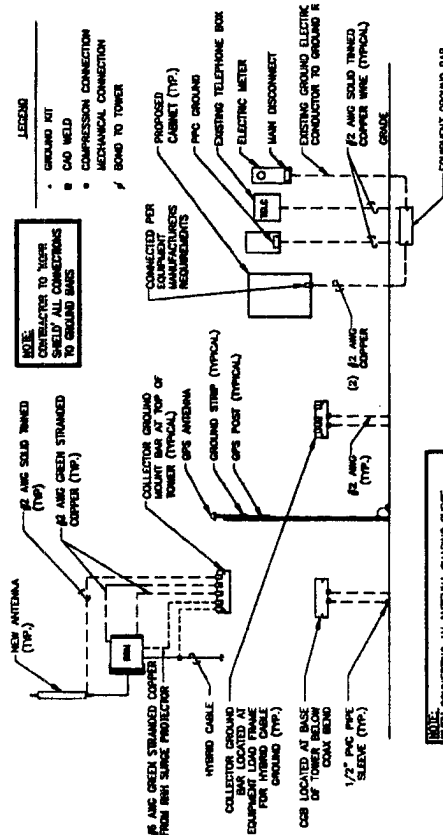
EQUIPMENT GROUNDING PLAN (CTD3XC350)
NOT TO SCALE



EQUIPMENT GROUNDING PLAN (CTB1XC007)
NOT TO SCALE

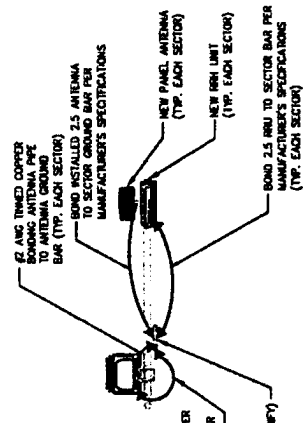


- SYMBOLS:**
- COPPER GROUND ROD
 - △ CONNECT PER MANUFACTURER SPECS
 - MECHANICAL CONNECTION
 - GROUND BAR
- 1 PROPOSED SPRINT ALK 9000 EQUIPMENT CABINET TO REFLECT EXISTING
 - 2 PROPOSED SPRINT FIBER DISTRIBUTION RACK
 - 3 PROPOSED SPRINT BATTERY BACKUP CABINET TO REFLECT EXISTING
 - 4 PROPOSED SPRINT A-FRAME TOWER(S) AND ANTENNA(S) INSTALLED BY CONTRACTOR



NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS BRACKET GROUNDING STRAP DOWN TO GROUND RING.
2. WEATHERPROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHERPROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.



NOTE:

1. CONTRACTOR TO VERIFY EXISTING LUG SPACES ARE AVAILABLE ON GROUND BAR. ADD ADDITIONAL LUG SPACES IF NO LUG SPACES ARE AVAILABLE.
2. ANTENNA GROUNDING CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S LAYOUT (REFER TO ANTENNA CONNECTION SHEET).

TYPICAL ANTENNA GROUNDING PLAN
NOT TO SCALE

CONNECTION OF GROUND KIT TO ANTENNA CABLE
NOT TO SCALE

MOUNT MODIFICATION DRAWINGS

PREPARED BY:

INFINIGY2

FROM ZERO TO INFINIGY
the solutions are endless

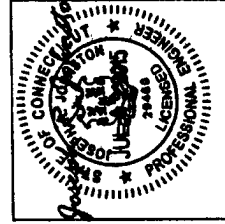
DANBURY HOSPITAL
24 HOSPITAL AVE.
DANBURY, CT 06810

07/08/15

INFINIGY JOB # 195-036



THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE
SOLE PROPERTY OF SPRINT AND MAY NOT BE
REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY
MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN
CONSENT OF SPRINT.



PROFESSIONAL SEAL
IT IS A VIOLATION OF LAW FOR ANY PERSON
TO REPRODUCE THIS SEAL OR ANY PART
HEREOF, TO OBTAIN ANY BENEFIT THEREFROM.

\$1

NOTES:

1. THE MODIFICATIONS OUTLINED IN THESE DOCUMENTS WERE DESIGNED IN ACCORDANCE WITH THE AIAA/FAA-222-4 CODE.
2. ALL CONSTRUCTION METHODS SHOULD FOLLOW STANDARDS OF GOOD CONSTRUCTION PRACTICE.
3. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
4. THE CONTRACTOR SHOULD NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS.
5. ANY CHANGES OR ADDITIONS MUST COMPLY WITH THE REQUIREMENTS OF THESE NOTES AND ALL APPLICABLE REGULATORY AGENCIES. ALL CHANGES TO THE ORIGINAL DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL MISCELLANEOUS STRUCTURE, BRACING, TEMPORARY SUPPORTS, ETC., NECESSARY FOR THE DESIGN, CONSTRUCTION, AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
7. CONTRACTORS PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR BEYOND ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.
8. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GRADING SURFACES WHERE EXISTING PARTS OR EQUIPMENT REMAIN, MUST BE REPAIRED AND REFINISHED TO MATCH THE ORIGINAL SURFACES OF EQUIPMENT CONTACTING FOR RENT PARTS AND REPAIRS AND RECOMMENDATIONS.
9. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE SHOWN AND HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.
10. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION. CONTACT IMPRINT ENGINEERING IF ANY DISCREPANCIES EXIST.

STEEL CONSTRUCTION:

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION, FOR THE DESIGN AND FABRICATION OF STEEL COMPOUNDS.
2. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
3. ALL STEEL ANGLES, CHANNELS, PLATES AND BARS TO BE A36, F_y=36 KSI
4. ALL STRUCTURAL STEEL, W SHAPES TO BE A572, F_y=50 KSI
5. ALL RECTANGULAR AND ROUND HSS TO BE A500, GRADE B, F_y=48 KSI
6. ALL STEEL PIPE TO BE A53, GRADE B, F_y=35 KSI
7. ALL U-BOLTS TO BE A320-X, F_y=92 KSI
8. ALL U-BOLTS TO BE A36, F_y=36 KSI
9. ALL WELDING SHALL BE DONE USING ELECTRODES.
10. ALL WELDING SHALL CONFORM TO AISC AND AWS D11.1 LATEST EDITION.
11. BOLTS SHALL BE TIGHTENED TO A "TANG TIGHT" CONDITION AS DEFINED BY AISC.

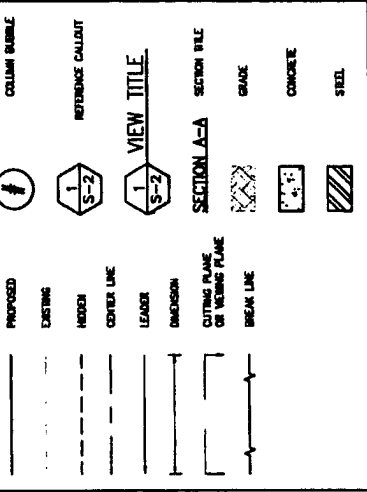
CONCRETE:

1. CONCRETE TO BE 4000 PSI @ 28 DAYS, REINFORCING BARS TO CONFORM TO ASTM A615 GRADE 60. SHEETPIPING CONCRETE INSTALLATION TO CONFORM TO AIAA-316 BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNCHANGED EARTH FREE OF MOISTURE AND ALL FOREIGN OBJECTS AND MATERIALS A WARNING SIGN SHALL BE POSTED AT ALL TIMES. ALL REINFORCING BARS TO BE PLACED WITH A MINIMUM CLEARANCE FROM EACH OTHER AS SHOWN ON THESE DRAWINGS. WELDING OF BARS IS NOT PERMITTED.
2. PLUMB & TENSION: PLUMB AND TENSION TOWER UPON COMPLETION OF STRUCTURAL MODIFICATIONS DETAILED IN THESE DRAWINGS.
3. RETENSING OF EXISTING GUY WIRES SHALL BE PERFORMED AT A TIME WHEN THE WIND VELOCITY IS LESS THAN 10 MPH AT GROUND LEVEL AND WITH NO ICE ON THE STRUCTURE AND GUY WIRES.
4. PLUMB THE TOWER WHILE RETENSING THE EXISTING GUY WIRES. THE HORIZONTAL DISTANCE BETWEEN THE VERTICAL CENTERLINES AT ANY TWO ELEVATIONS SHALL NOT EXCEED 0.25% OF THE VERTICAL DISTANCE BETWEEN TWO ELEVATIONS EX. DO NOT EXCEED .5" FOR .20' OF VERTICAL DISTANCE.
5. THE TOWER MUST BE WITHIN ANY TWO ELEVATIONS SHALL NOT EXCEED .5 DEGREES IN 10 FEET. THE MAXIMUM TILT OVER THE STRUCTURE HEIGHT SHALL NOT EXCEED 5 DEGREES.
6. SEE "TYPICAL RETENSING AND STANCHION SAFETY WIRE DETAILS" SHEET FOR ACCEPTABLE GUY WIRE TENSIONER DETAILING IF REQUIRED.

STRUCTURAL ABBREVIATIONS:

AS	ANCHOR BOLT
AP	APPROXIMATE
BS	BOTTOM
BT	BOTTOM PLATE
BSG	BEARING
CLA	CLEAR
CL	CLIP
CLG	CLIP GATE
CO	CORNER
CONF	CONFIRMED
CTR	CENTER
DIA	DIAMETER
DIM	DIMENSION
DIS	DISTANCE
DR	DRILL
EA	EACH FACE
EL	ELEVATION
ELV	ELEVATION
EM	EMBED
ENCL	ENCLOSURE
EQ	EQUIPMENT
EQIP	EQUIPMENT
ES	EACH SIDE
EST	ESTIMATED
EX	EXISTING
EXT	EXTERIOR
FAB	FABRICATE
FIN	FINISH
FS	FAR SIDE
FTG	FOOTING
GA	GAUGE
GLY	GALVANIZED
GRD	GROUND
GRNG	GRADING
HZ	HORIZONTAL
HORZ	HORIZONTAL
HP	HEAVY DUTY
HT	HIGH POINT
HTY	HEAVY DUTY
IF	INSIDE FACE
IN	INCHES
INCL	INCLUDE, INCLUDING
INP	INTERNAL
IP	INTERNAL TENSION
KSI	KIP (1000 LBS)

STRUCTURAL SYMBOLS:

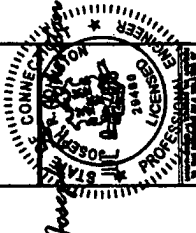


PROPOSED
EXISTING
HIDDEN
CENTER LINE
LEADER
DIMENSION
CUTTING PLANE OR WEAR PLANE
BREAK LINE

COLUMN BUBBLE
REFERENCE CALLOUT
VIEW TITLE
SECTION A-A
GRADE
CONCRETE
STEEL

L	LINE
LC	LINE CENTER
LH	LINE HORIZONTAL
LV	LINE VERTICAL
LOC	LOCATION
LP	LOW POINT
MAT.	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NET	NET AREA
NET IN CONTRACT	NET IN CONTRACT
NMBR	NUMBER
NEAR SIZE	NEAR SIZE
NET TO SCALE	NET TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OP	OPPOSITE FACE
OPG	OPPOSITE
OS	OTHERWISE SPECIFIED
PCS	PERCENT
PERM	PERMANENT
PL	PLATE, PROPERTY LINE
POS	POSITIVE
POL	POLAR
PT	POINT
Q	QUALITY CONTROL
QUAL	QUALITY CONTROL
R	RADIUS
REAR	REAR
REIN	REINFORCEMENT, REINFORCING
REINFORCING	REINFORCEMENT, REINFORCING
SCHEDULE	SCHEDULE
SHALL BE	SHALL BE
SPEC	SPECIFICATION
SO	SQUARE
SOFT	SOFT
SQ	SQUARE FEET
SUB	SUBSTITUTION
SUBST	SUBSTITUTE
T	TOP
T&B	TOP & BOTTOM
TR	TRAILER
TRK	TRACK
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
W/P	WORKING POINT
YS	YIELD STRENGTH

INFINIGY8
Engineering & Surveying
1200 Highway 171, S.170
Farmington, CT 06030
Phone: 860.275.4666
Fax: 860.275.4667
www.infinigy.com



PROJECT NO.	1000000001
DATE	01/01/2000
DRAWN BY	J. GAGNIER
CHECKED BY	J. GAGNIER
APPROVED BY	J. GAGNIER
TITLE	GENERAL CONTRACTOR

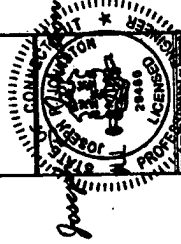
Project Name: CTR01VC007/ CTR01VC010 DANBURY HOSPITAL



Drawing Number:	JA-BR010
Date:	2/25/06
Scale:	
Sheet No.:	52

INFINIGYS

DESIGN ENGINEER
1000 W. 10th St., Suite 200
Lincoln, NE 68502
402.466.9999



NO.	DATE	DESCRIPTION
1	11/15/11	ISSUE FOR PERMIT
2	11/15/11	ISSUE FOR PERMIT
3	11/15/11	ISSUE FOR PERMIT
4	11/15/11	ISSUE FOR PERMIT
5	11/15/11	ISSUE FOR PERMIT
6	11/15/11	ISSUE FOR PERMIT
7	11/15/11	ISSUE FOR PERMIT
8	11/15/11	ISSUE FOR PERMIT
9	11/15/11	ISSUE FOR PERMIT
10	11/15/11	ISSUE FOR PERMIT
11	11/15/11	ISSUE FOR PERMIT
12	11/15/11	ISSUE FOR PERMIT
13	11/15/11	ISSUE FOR PERMIT
14	11/15/11	ISSUE FOR PERMIT
15	11/15/11	ISSUE FOR PERMIT

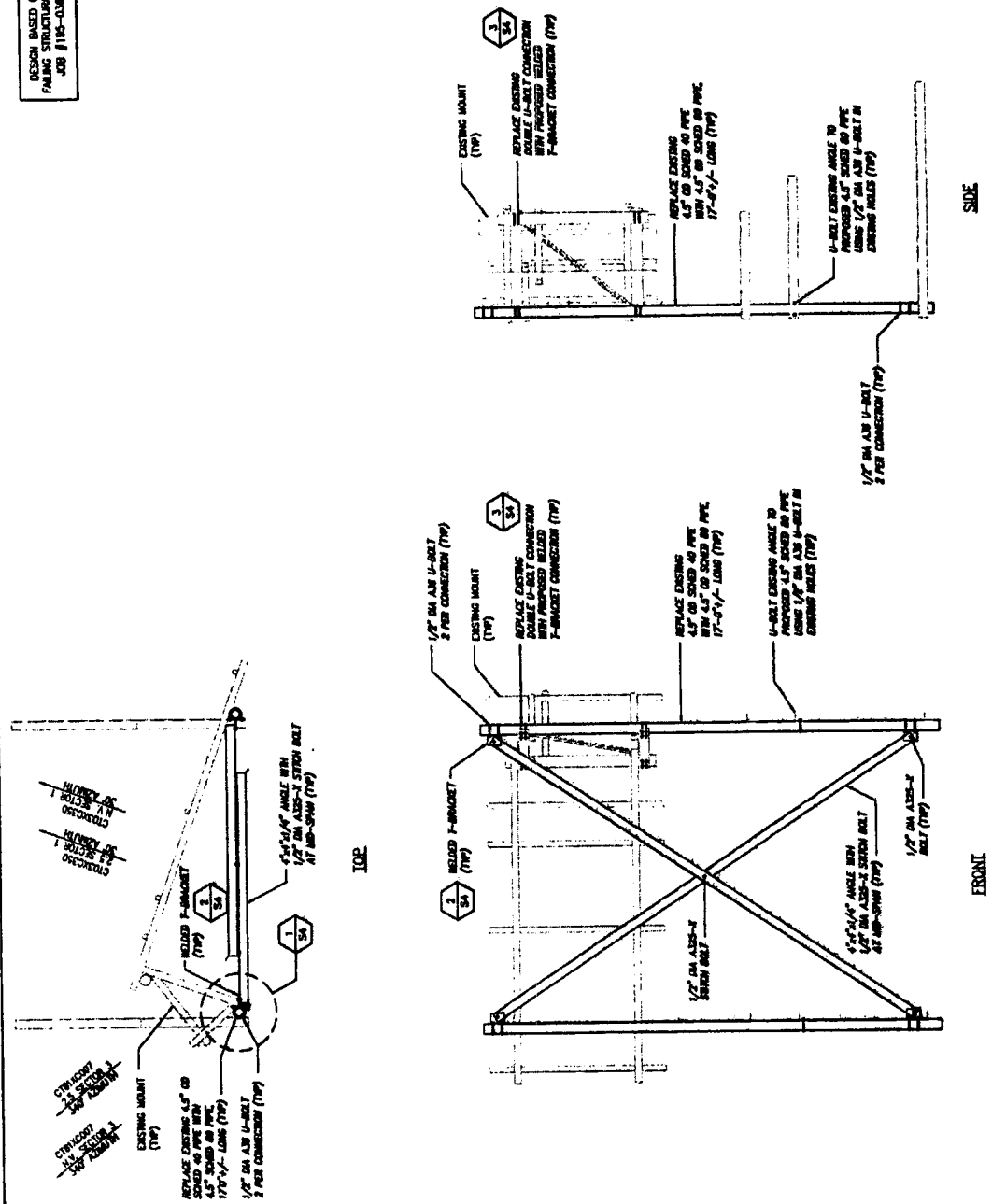
CITY/COUNTY
CITY OF LINCOLN
DANBURY
HOSPITAL

21 HOSPITAL AVE
LINCOLN, NE 68502
402.466.9999



Drawing No.	11-100003
Date	11/15/11
Sheet No.	83
Project Name	NORTH MOUNT

DESIGN BASED ON REQUIREMENTS FROM
FAILING STRUCTURAL EVALUATION BY INFINIGYS
JOB #115-02A, DATED MAY 26, 2011



CITY/COUNTY
CITY OF LINCOLN
DANBURY
HOSPITAL
1 2 SCALE: NOT TO SCALE

NORTH MOUNT

83

INFINIGY8

2003 Registered Under the
Agency for the State
of New York



NO.	REV.	DATE	BY	CHKD.	DESCRIPTION
1					ISSUED FOR PERMITS
2					ISSUED FOR PERMITS
3					ISSUED FOR PERMITS
4					ISSUED FOR PERMITS
5					ISSUED FOR PERMITS
6					ISSUED FOR PERMITS
7					ISSUED FOR PERMITS
8					ISSUED FOR PERMITS
9					ISSUED FOR PERMITS
10					ISSUED FOR PERMITS
11					ISSUED FOR PERMITS
12					ISSUED FOR PERMITS
13					ISSUED FOR PERMITS
14					ISSUED FOR PERMITS
15					ISSUED FOR PERMITS
16					ISSUED FOR PERMITS
17					ISSUED FOR PERMITS
18					ISSUED FOR PERMITS
19					ISSUED FOR PERMITS
20					ISSUED FOR PERMITS

CT03XC007/
CT03XC010
DANBURY
HOSPITAL

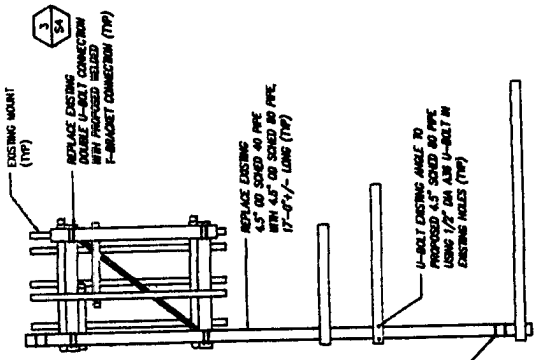
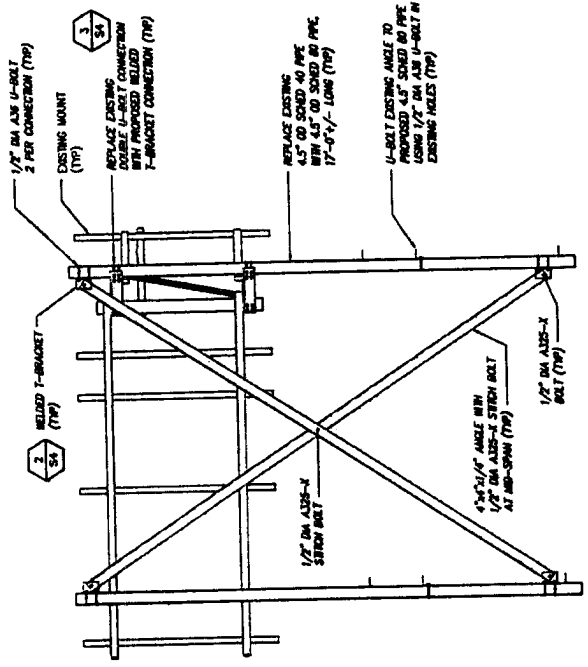
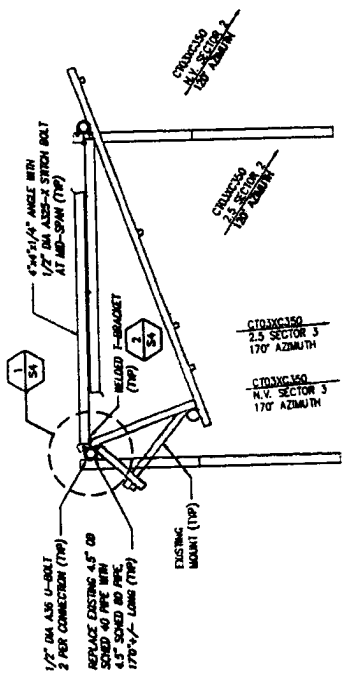
34 HARTFORD AVE
DANBURY, CT 06810



Drawing Number:
Project Name:
Date:
Scale:

SOUTH MOUNT

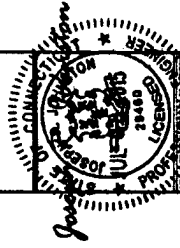
Sheet Number: **S4**



CT03XC350 BETA/ GAMMA SECTORS
SCALE: NOT TO SCALE

INFINIGY8

2005 Connecticut Statewide License
No. 21493
Professional Engineer
State of Connecticut
Department of Transportation



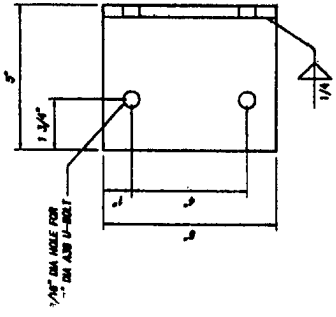
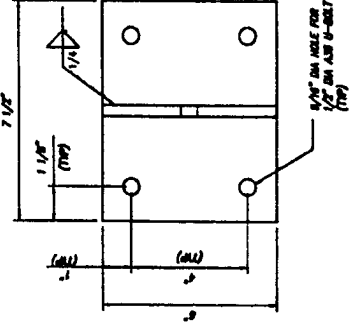
DATE	NOV 11 2008
BY	J. INFANTI
CHECKED BY	J. INFANTI
SCALE	AS SHOWN
PROJECT NO.	08-00000000
PROJECT NAME	08-00000000
DESCRIPTION	08-00000000
LOCATION	08-00000000
DATE	NOV 11 2008
BY	J. INFANTI
CHECKED BY	J. INFANTI
SCALE	AS SHOWN
PROJECT NO.	08-00000000
PROJECT NAME	08-00000000
DESCRIPTION	08-00000000
LOCATION	08-00000000

CTB1X00077
CTR03XCS00
DANBURY
HOSPITAL

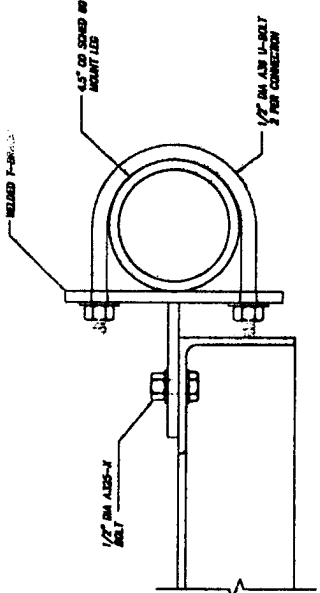


DATE: 11/11/08
BY: J. INFANTI
CHECKED BY: J. INFANTI

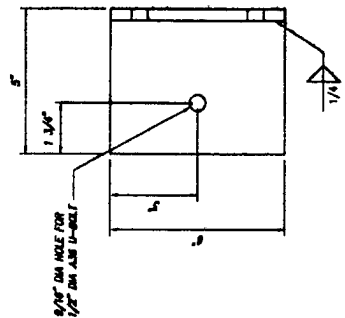
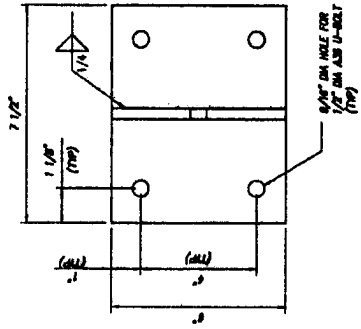
NORTH/SOUTH
BRACKET
DETAILS



1 WELDED T-BRACKET DETAIL
SCALE: NOT TO SCALE



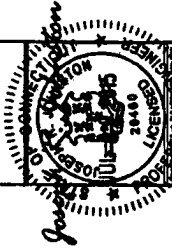
2 CONNECTION DETAIL
SCALE: NOT TO SCALE



3 WELDED T-BRACKET DETAIL
SCALE: NOT TO SCALE

INFINIGY8

2008 Westford, MA 01886
Tel: 978.335.1100
Fax: 978.335.1101
www.infinigy.com



NO.	DATE	DESCRIPTION
1	01/10/08	ISSUED FOR PERMITS
2	02/10/08	ISSUED FOR PERMITS
3	03/10/08	ISSUED FOR PERMITS
4	04/10/08	ISSUED FOR PERMITS
5	05/10/08	ISSUED FOR PERMITS
6	06/10/08	ISSUED FOR PERMITS
7	07/10/08	ISSUED FOR PERMITS
8	08/10/08	ISSUED FOR PERMITS
9	09/10/08	ISSUED FOR PERMITS
10	10/10/08	ISSUED FOR PERMITS
11	11/10/08	ISSUED FOR PERMITS
12	12/10/08	ISSUED FOR PERMITS
13	01/10/09	ISSUED FOR PERMITS
14	02/10/09	ISSUED FOR PERMITS
15	03/10/09	ISSUED FOR PERMITS
16	04/10/09	ISSUED FOR PERMITS
17	05/10/09	ISSUED FOR PERMITS
18	06/10/09	ISSUED FOR PERMITS
19	07/10/09	ISSUED FOR PERMITS
20	08/10/09	ISSUED FOR PERMITS
21	09/10/09	ISSUED FOR PERMITS
22	10/10/09	ISSUED FOR PERMITS
23	11/10/09	ISSUED FOR PERMITS
24	12/10/09	ISSUED FOR PERMITS
25	01/10/10	ISSUED FOR PERMITS
26	02/10/10	ISSUED FOR PERMITS
27	03/10/10	ISSUED FOR PERMITS
28	04/10/10	ISSUED FOR PERMITS
29	05/10/10	ISSUED FOR PERMITS
30	06/10/10	ISSUED FOR PERMITS
31	07/10/10	ISSUED FOR PERMITS
32	08/10/10	ISSUED FOR PERMITS
33	09/10/10	ISSUED FOR PERMITS
34	10/10/10	ISSUED FOR PERMITS
35	11/10/10	ISSUED FOR PERMITS
36	12/10/10	ISSUED FOR PERMITS
37	01/10/11	ISSUED FOR PERMITS
38	02/10/11	ISSUED FOR PERMITS
39	03/10/11	ISSUED FOR PERMITS
40	04/10/11	ISSUED FOR PERMITS
41	05/10/11	ISSUED FOR PERMITS
42	06/10/11	ISSUED FOR PERMITS
43	07/10/11	ISSUED FOR PERMITS
44	08/10/11	ISSUED FOR PERMITS
45	09/10/11	ISSUED FOR PERMITS
46	10/10/11	ISSUED FOR PERMITS
47	11/10/11	ISSUED FOR PERMITS
48	12/10/11	ISSUED FOR PERMITS
49	01/10/12	ISSUED FOR PERMITS
50	02/10/12	ISSUED FOR PERMITS
51	03/10/12	ISSUED FOR PERMITS
52	04/10/12	ISSUED FOR PERMITS
53	05/10/12	ISSUED FOR PERMITS
54	06/10/12	ISSUED FOR PERMITS
55	07/10/12	ISSUED FOR PERMITS
56	08/10/12	ISSUED FOR PERMITS
57	09/10/12	ISSUED FOR PERMITS
58	10/10/12	ISSUED FOR PERMITS
59	11/10/12	ISSUED FOR PERMITS
60	12/10/12	ISSUED FOR PERMITS
61	01/10/13	ISSUED FOR PERMITS
62	02/10/13	ISSUED FOR PERMITS
63	03/10/13	ISSUED FOR PERMITS
64	04/10/13	ISSUED FOR PERMITS
65	05/10/13	ISSUED FOR PERMITS
66	06/10/13	ISSUED FOR PERMITS
67	07/10/13	ISSUED FOR PERMITS
68	08/10/13	ISSUED FOR PERMITS
69	09/10/13	ISSUED FOR PERMITS
70	10/10/13	ISSUED FOR PERMITS
71	11/10/13	ISSUED FOR PERMITS
72	12/10/13	ISSUED FOR PERMITS
73	01/10/14	ISSUED FOR PERMITS
74	02/10/14	ISSUED FOR PERMITS
75	03/10/14	ISSUED FOR PERMITS
76	04/10/14	ISSUED FOR PERMITS
77	05/10/14	ISSUED FOR PERMITS
78	06/10/14	ISSUED FOR PERMITS
79	07/10/14	ISSUED FOR PERMITS
80	08/10/14	ISSUED FOR PERMITS
81	09/10/14	ISSUED FOR PERMITS
82	10/10/14	ISSUED FOR PERMITS
83	11/10/14	ISSUED FOR PERMITS
84	12/10/14	ISSUED FOR PERMITS
85	01/10/15	ISSUED FOR PERMITS
86	02/10/15	ISSUED FOR PERMITS
87	03/10/15	ISSUED FOR PERMITS
88	04/10/15	ISSUED FOR PERMITS
89	05/10/15	ISSUED FOR PERMITS
90	06/10/15	ISSUED FOR PERMITS
91	07/10/15	ISSUED FOR PERMITS
92	08/10/15	ISSUED FOR PERMITS
93	09/10/15	ISSUED FOR PERMITS
94	10/10/15	ISSUED FOR PERMITS
95	11/10/15	ISSUED FOR PERMITS
96	12/10/15	ISSUED FOR PERMITS
97	01/10/16	ISSUED FOR PERMITS
98	02/10/16	ISSUED FOR PERMITS
99	03/10/16	ISSUED FOR PERMITS
100	04/10/16	ISSUED FOR PERMITS

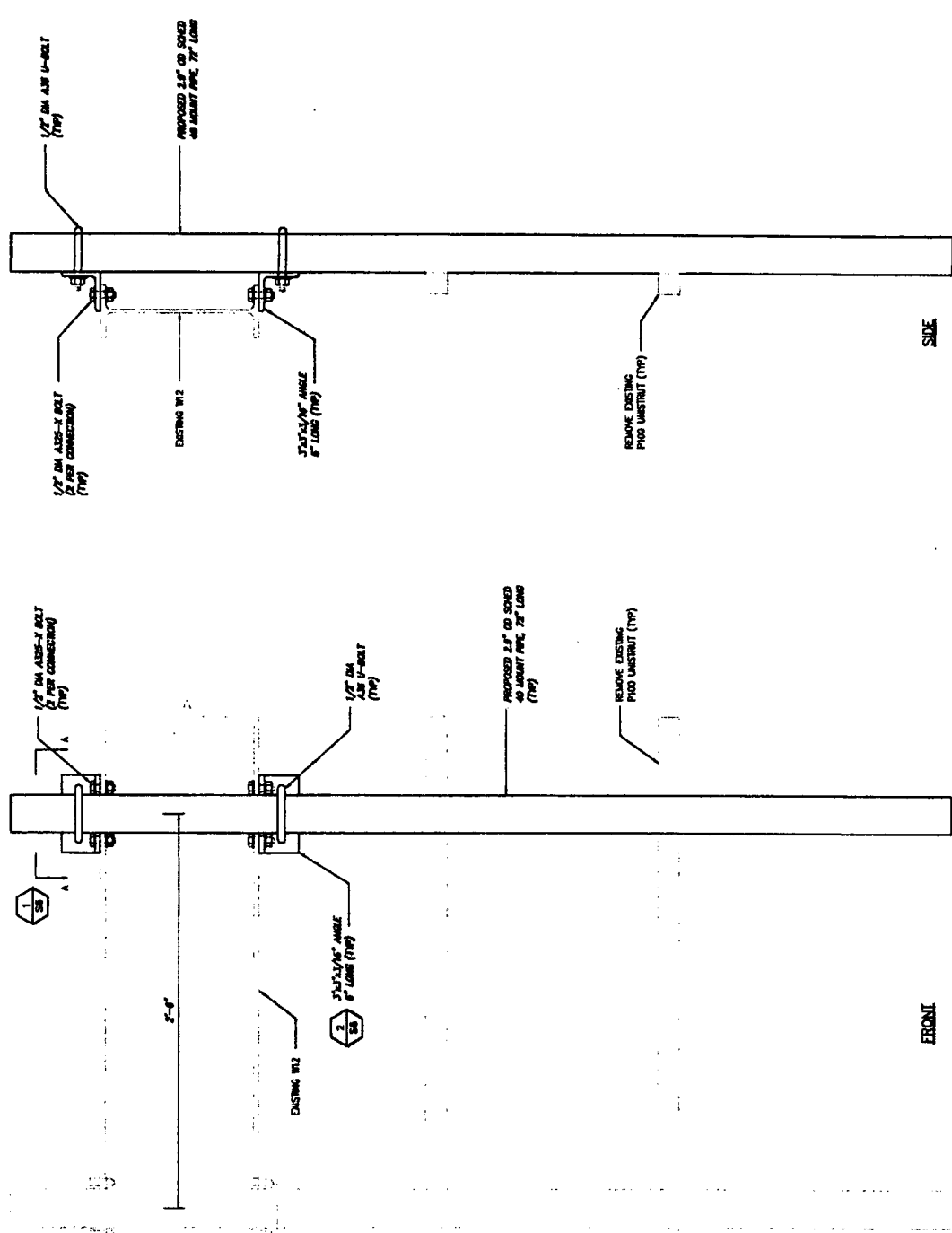
Project Title: CTB1XC0007
 CITY/COUNTY: DANBURY
 HOSPITAL: DANBURY HOSPITAL
 24 HOSPITAL AVE
 DANBURY, CT 06810



Drawing Date: 01/10/08
 Drawing Title: WEST MOUNT
 Scale: 1/8" = 1'-0"

WEST MOUNT

Sheet Number: 86



CTB1XC0007 ALPHA/BETA SECTORS
 SCALE: NOT TO SCALE

INFINIGY8

2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030



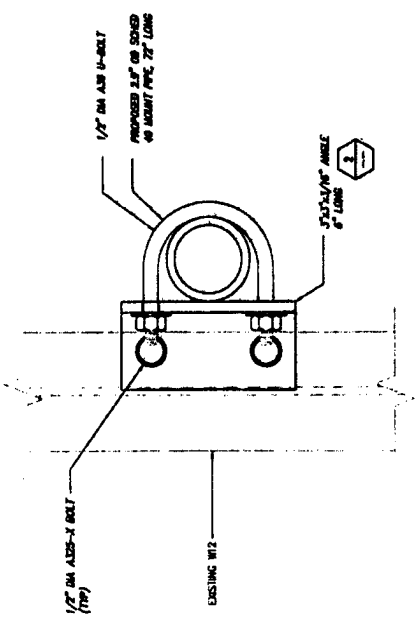
PROJECT NO.	13263
DATE	08/11/2023
DESCRIPTION	MECHANICAL ENGINEERING
DRAWN BY	J. INFINTO
CHECKED BY	J. INFINTO
SCALE	AS SHOWN
DATE	08/11/2023
PROJECT NO.	13263
DATE	08/11/2023
DESCRIPTION	MECHANICAL ENGINEERING
DRAWN BY	J. INFINTO
CHECKED BY	J. INFINTO
SCALE	AS SHOWN
DATE	08/11/2023

CT81X00077
CT80X00050
DANBURY
HOSPITAL

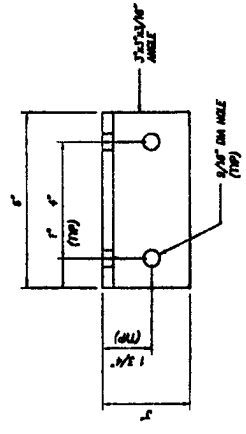


24 HOSPITAL AVE
DANBURY, CT 06810

**EAST
BRACKET
DETAILS**



1 SECTION A-A
SCALE: NOT TO SCALE



HOLED OPPOSITE FLANGE SIDE

2 ANGLE BRACKET
SCALE: NOT TO SCALE

INFINIGY

FROM ZERO TO INFINIGY
the solutions are endless

1033 WATERVLIET SHAKER RD, ALBANY, NY 12205

Rooftop Frame Modification Report

July 9, 2015

Site Name	CT81XC007 / CT03XC350 Danbury Hospital
Job Number	195-036
Client	Sprint
Proposed Carrier	Sprint
Site Location	24 Hospital Ave., Danbury, CT 06810 41° 24' 17.90" N NAD83 73° 26' 45.21" W NAD83
Structure Type	Sector Frames / Pipe Mounts
Structural Usage Ratio	96.6%
Overall Result	PASS

Upon reviewing the results of this analysis, it is our opinion that the structure meets the specified TIA code requirements with the modifications listed below installed. The mounts and frames are therefore deemed adequate to support the existing and proposed loading as listed in this report.

- Considered replacing the existing 202" long 4.5" O.D. Sch. 40 pipe masts in alpha and beta sectors with proposed 202" long 4.5" O.D. Sch. 80 pipe masts.
- Considered the installation of (2) 213" L4"x4"x1/4" bracers to the existing frames in alpha and beta sectors
- Considered the removal of the existing 42" long P-1000 Unistruts in gamma sector.
- Considered the installation of (1) 72" long 2.9" O.D. Sch. 40 mount pipe in gamma sector.

Maxwell R. Becker, E.I.T.
Structural Engineer II



Rooftop Frame Evaluation

July 9, 2015

Table of Contents

Introduction.....	3
Supporting Documentation.....	3
Analysis Code Requirements.....	3
Conclusion.....	3
CT81XC007 Existing and Reserved Loading.....	4
CT81XC007 Final Loading.....	5
CT03XC350 Existing and Reserved Loading.....	5
CT03XC350 Final Loading.....	6
Structure Usages.....	6
Assumptions and Limitations.....	7
Calculations.....	Appended

Rooftop Frame Evaluation

July 9, 2015

Introduction

Infinigy Engineering has been requested to perform a post modification structural analysis on the existing frames and mounts. All supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. Proposed modifications have been designed by Infinigy Engineering as listed in this report. The frames and mounts were analyzed using RISA-3D version 13.0.0

Supporting Documentation

Structural Design	Goodkind & O'Dea Job # 1849, dated April 3, 1997
Construction Drawings	Infinigy Engineering Job # 195-036, dated February 6, 2015
Site Audit	Sprint 2.5 Site Audit, dated August 17, 2013
Previous Analysis	Infinigy Engineering Job # 195-036, dated May 28, 2015

Analysis Code Requirements

Wind Speed	100 mph (3-Second Gust)
Wind Speed w/ ice	40 mph (3-Second Gust) w/ 3/4" ice
TIA Revision	ANSI/TIA-222-G
Adopted IBC	2003 IBC / 2005 CT Supplement & 2013 CT Amendment
Structure Class	3
Exposure Category	B
Topographic Category	1
Crest Height	0 ft.

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the modified structure meets the specified TIA code requirements. The frames and mounts are therefore deemed adequate to support the existing and proposed loading as listed in this report.

The existing equipment room originally held a cabinet load of 2800 lbs. The proposed loading calls for (1) Battery cabinet (Cabinet weight 2460 lbs.) and (1) BTS Cabinet (Cabinet weight 1074 lbs.) The total proposed cabinet weight is 5088 lbs., more than the original 2800 lbs. load. After further analysis, it is our opinion that the existing equipment rooms are adequate to support the proposed loading configuration.

If you have any questions, require additional information, or actual conditions differ from those as detailed in this report please contact me via the information below:

Maxwell R. Becker, E.I.T.
Structural Engineer II | Infinigy Engineering
1033 Watervliet Shaker Road | Albany | NY | 12205
(O) [518] 690-0790 | (M) [518] 221-4665
mbecker@infinigy.com | www.infinigy.com

Rooftop Frame Evaluation

July 9, 2015

CT81XC007 Existing & Reserved Loading

Rad Center (ft)	Qty.	Appurtenance	Mount Type	Coax & Lines	Sector
155.0	1	RFS APXVSP18-C-A20	Sector Frames	(1) Fiber	Gamma
	2	ALU 1900 MHz RRH			
	1	ALU 800 MHz RRH			
	2	TTA			
131.0	1	RFS APXVSP18-C-A20	Pipes	(2) Fiber	Alpha
	2	ALU 1900 MHz RRH			
	1	ALU 800 MHz RRH			
	2	TTA			
	1	RFS APXVSP18-C-A20			Beta
	2	ALU 1900 MHz RRH			
	1	ALU 800 MHz RRH			
	2	TTA			

CT81XC007 To Be Removed Loading

Rad Center (ft)	Qty.	Appurtenance	Mount Type	Coax & Lines	Sector
--	--	--	--	--	--

CT81XC007 Proposed Loading

Rad Center (ft)	Qty.	Appurtenance	Mount Type	Coax & Lines	Sector
155.0	1	RFS APXVTM14-C 120	Sector Frames	(1) Fiber	Gamma
	1	Alcatel Lucent TD-RRH8X20			
131.0	1	RFS APXVTM14-C 120	Pipes	(2) Fiber	Alpha
	1	Alcatel Lucent TD-RRH8X20			
	1	RFS APXVTM14-C 120			Beta
	1	Alcatel Lucent TD-RRH8X20			

Rooftop Frame Evaluation

July 9, 2015

CT81XC007 Final Loading

Rad Center (ft)	Qty.	Appurtenance	Mount Type	Coax & Lines	Sector
155.0	1	RFS APXVSPP18-C-A20	Sector Frames	(2) Fiber	Gamma
	2	ALU 1900 MHz RRH			
	1	ALU 800 MHz RRH			
	2	TTA			
	1	RFS APXVTM14-C 120			
	1	Alcatel Lucent TD-RRH8X20			
131.0	1	RFS APXVSPP18-C-A20	Pipes	(4) Fiber	Alpha
	2	ALU 1900 MHz RRH			
	1	ALU 800 MHz RRH			
	2	TTA			
	1	RFS APXVTM14-C 120			
	1	Alcatel Lucent TD-RRH8X20			
	1	RFS APXVSPP18-C-A20			Beta
	2	ALU 1900 MHz RRH			
	1	ALU 800 MHz RRH			
	2	TTA			
	1	RFS APXVTM14-C 120			
	1	Alcatel Lucent TD-RRH8X20			

CT03XC350 Existing & Reserved Loading

Rad Center (ft)	Qty.	Appurtenance	Mount Type	Coax & Lines	Sector
155.0	1	RFS APXVSPP18-C-A20	Sector Frames	(3) Fiber	Alpha
	2	ALU 1900 MHz RRH			
	1	ALU 800 MHz RRH			
	2	TTA			
	1	RFS APXVSPP18-C-A20			Beta
	2	ALU 1900 MHz RRH			
	1	ALU 800 MHz RRH			
	2	TTA			
	1	RFS APXVSPP18-C-A20			Gamma
	2	ALU 1900 MHz RRH			
	1	ALU 800 MHz RRH			
	2	TTA			

CT03XC350 To Be Removed Loading

Rad Center (ft)	Qty.	Appurtenance	Mount Type	Coax & Lines	Sector
--	--	--	--	--	--

Rooftop Frame Evaluation

July 9, 2015

CT03XC350 Proposed Loading

Rad Center (ft)	Qty.	Appurtenance	Mount Type	Coax & Lines	Sector
155.0	1	RFS APXVTM14-C 120	Sector Frames	(3) Fiber	Alpha
	1	Alcatel Lucent TD-RRH8X20			Beta
	1	RFS APXVTM14-C 120			Beta
	1	Alcatel Lucent TD-RRH8X20			Beta
	1	RFS APXVTM14-C 120			Beta
	1	Alcatel Lucent TD-RRH8X20			Beta

CT03XC350 Final Loading

Rad Center (ft)	Qty.	Appurtenance	Mount Type	Coax & Lines	Sector
155.0	1	RFS APXVSP18-C-A20	Sector Frames	(6) Fiber	Alpha
	2	ALU 1900 MHz RRH			
	1	ALU 800 MHz RRH			
	2	TTA			
	1	RFS APXVTM14-C 120			
	1	Alcatel Lucent TD-RRH8X20			
	1	RFS APXVSP18-C-A20			Beta
	2	ALU 1900 MHz RRH			
	1	ALU 800 MHz RRH			
	2	TTA			
	1	RFS APXVTM14-C 120			
	1	Alcatel Lucent TD-RRH8X20			
	1	RFS APXVSP18-C-A20			Beta
	2	ALU 1900 MHz RRH			
	1	ALU 800 MHz RRH			
	2	TTA			
	1	RFS APXVTM14-C 120			
	1	Alcatel Lucent TD-RRH8X20			

Structure Usages

Alpha / Beta Sector Mount: 96.6%
 Existing Gamma Mount: 32.2%
 Proposed Gamma Mount: 68.7%
 Equipment Room Capacity: 57.6%

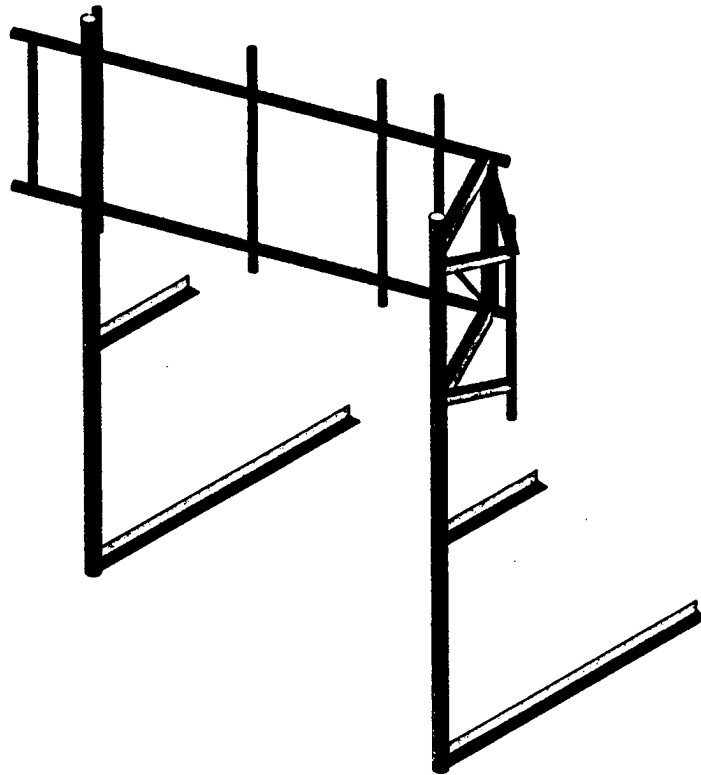
July 9, 2015

Assumptions and Limitations

Our structural calculations are completed assuming all information provided to Infinigy Engineering is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition of "like new" and all members and connections to be free of corrosion and/or structural defects. The structure owner and/or contractor shall verify the structure's condition prior to installation of any proposed equipment. If actual conditions differ from those described in this report Infinigy Engineering should be notified immediately to complete a revised evaluation.

Our evaluation is completed using standard TIA, AISC, ACI, and ASCE methods and procedures. Our structural results are proprietary and should not be used by others as their own. Infinigy Engineering is not responsible for decisions made by others that are or are not based on our supplied assumptions and conclusions.

This report is an evaluation of the tower structure only and does not reflect adequacy of any existing antenna mounts, mount connections, or coax mounting attachments. These elements are assumed to be adequate for the purposes of this analysis and are assumed to have been installed per their manufacturer requirements.



Infinigy Engineering, PLLC

MRB

195-036

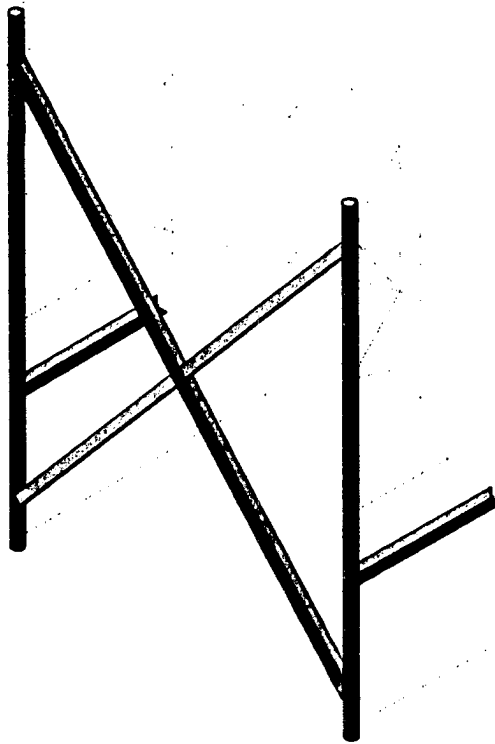
Danbury Hospital

CT03XC350 Alpha Sector, CT81XC007 Gamma Sector

Existing Configuration

July 9, 2015 at 3:42 PM

Frame 1.r3d



Infinigy Engineering, PLLC

MRB

195-036

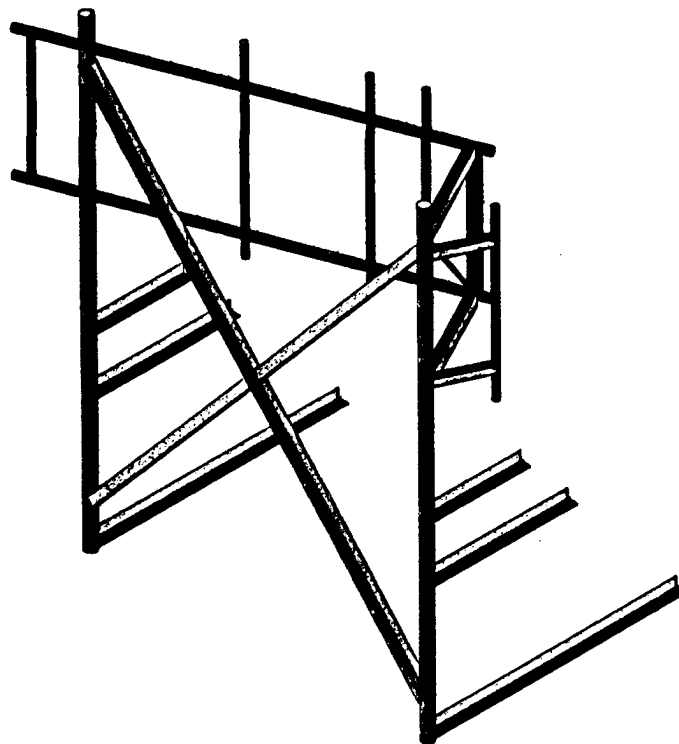
Danbury Hospital

CT03XC350 Alpha Sector, CT81XC007 Gamma Sector

Modifications

July 9, 2015 at 3:38 PM

Frame 1.r3d



Infinigy Engineering, PLLC
MRB

195-036

Danbury Hospital

CT03XC350 Alpha Sector, CT81XC007 Gamma Sector

Final Configuration

July 9, 2015 at 3:37 PM

Frame 1.r3d

Appearance Wind Load Calculation Per TIA-222-G

Windspeed 100 mph
 Exposure B
 Wind Direction Factor, K_d Table 2-2
 Gust Effect Factor, G_f 1 2.6.9
 Structure Class 3
 Centerline AGL 155 ft
 Topographic Category 1
 Crest Height 0 ft
 Side Face Angle, θ 60 degrees
 Mount Member Shape Round
 Mount Type Flat/Round
 Number of Sectors 1
 Carrier Sprint

C_p (roof) 28.03
 C_p (wall) 33.63

Appearance Name	Existing / Proposed?	Quantity	MS1	MS2	Weight (lb)	Height (ft)	Width (ft)	Depth (ft)	K _a	Input Appearance Information										
										Panel/ TIA	Shape Front	Shape Side	(EPAL) (ft ²)	(EPAL) (ft ²)	(EPAL) (ft ²)	F _o (Front)	F _o (Side)	F _o (Angle) Normal	F _o (Angle) 90°	
BFS APNSPP1B-C-A20	E	3.0	1	1	57.0	72.0	11.8	7.0	1.0	P	F	F	8.02	5.28	5.97	7.34	224.91	148.08	167.29	205.70
BFS APNSPP1B-C-A20	E	3.0	1	1	57.0	72.0	11.8	7.0	1.0	P	F	F	8.02	5.28	5.97	7.34	224.91	148.08	167.29	205.70
Alcatel-Lucent 1900 MHz 4x4S RBH	E	6.0	2	2	60.0	25.0	11.1	11.4	1.0	P	F	F	2.31	2.38	2.36	2.33	64.82	66.57	66.13	65.25
Alcatel-Lucent 1900 MHz 4x4S RBH	E	6.0	2	2	60.0	25.0	11.1	11.4	1.0	P	F	F	2.31	2.38	2.36	2.33	64.82	66.57	66.13	65.25
Alcatel-Lucent 800 MHz RBH	E	6.0	2	2	53.0	19.7	13.0	10.8	1.0	P	F	F	2.13	1.77	1.86	2.04	58.82	48.68	52.22	57.28
TIA	E	6.0	2	2	20.0	18.0	6.0	6.0	1.0	P	F	F	0.92	0.92	0.92	0.92	25.69	25.69	25.69	25.69
TIA	E	6.0	2	2	20.0	18.0	6.0	6.0	1.0	P	F	F	0.92	0.92	0.92	0.92	25.69	25.69	25.69	25.69
BFS APVITM1K-C-120	P	3.0	1	1	52.8	53.3	12.6	6.3	1.0	P	F	F	5.96	3.38	4.02	5.31	166.91	94.68	112.74	148.85
BFS APVITM1K-C-120	P	3.0	1	1	52.9	53.3	12.6	6.3	1.0	P	F	F	5.96	3.38	4.02	5.31	166.91	94.68	112.74	148.85
Alcatel Lucent TD-BPHDCO	P	6.0	2	2	66.1	25.4	17.5	5.7	1.0	P	F	F	3.70	1.29	1.90	3.10	103.82	36.27	53.15	86.93



Company : Infinigy Engineering, PLLC
 Designer : MRB
 Job Number : 195-036
 Model Name : CT81XC007 / CT03XC350 Danbury Hospital

July 9, 2015

Checked By: JRJ

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N5	N12			Horizontal 1	Beam	Pipe	A53 GR B	Typical
2	M2	N6	N13			Horizontal 1	Beam	Pipe	A53 GR B	Typical
3	M3	N2	N1			Pipe Mast	Beam	Pipe	A53 GR B	Typical
4	M4	N11	N16			Pipe Mount	Beam	Pipe	A53 GR B	Typical
5	M5	N7	N8			Pipe Mount	Beam	Pipe	A53 GR B	Typical
6	M6	N14	N15			Pipe Mast	Beam	Pipe	A53 GR B	Typical
7	M7	N9	N17			RIGID	None	None	RIGID	Typical
8	M8	N10	N18			RIGID	None	None	RIGID	Typical
9	M9	N23	N24			Pipe Mount	Beam	Pipe	A53 GR B	Typical
10	M10	N3	N19			RIGID	None	None	RIGID	Typical
11	M11	N4	N20			RIGID	None	None	RIGID	Typical
12	M12	N27	N28			Pipe Mount	Beam	Pipe	A53 GR B	Typical
13	M13	N25	N29			RIGID	None	None	RIGID	Typical
14	M14	N26	N30			RIGID	None	None	RIGID	Typical
15	M15	N35	N36			Pipe Mount	Beam	Pipe	A53 GR B	Typical
16	M16	N31	N33			RIGID	None	None	RIGID	Typical
17	M17	N32	N34			RIGID	None	None	RIGID	Typical
18	M18	N37	N14		180	L5x3x1/4	Beam	Single Angle	A36 Gr.36	Typical
19	M19	N38	N15		180	L5x3x1/4	Beam	Single Angle	A36 Gr.36	Typical
20	M20	N39	N40			Pipe Mast	Beam	Pipe	A53 GR B	Typical
21	M21	N37	N15			Angle Brace	Beam	Single Angle	A36 Gr.36	Typical
22	M22	N46	N45			Pipe Mount	Beam	Pipe	A53 GR B	Typical
23	M23	N43	N41			Site Pro Stand..	Beam	Square Tube	A53 GR B	Typical
24	M24	N44	N42			Site Pro Stand..	Beam	Square Tube	A53 GR B	Typical
25	M25	N24A	N49			L4x4x4	Beam	Single Angle	A36 Gr.36	Typical
26	M26	N48	N50			L4x4x4	Beam	Single Angle	A36 Gr.36	Typical
27	M27	N23A	N51			L4x4x4	Beam	Single Angle	A36 Gr.36	Typical
28	M28	N47	N52			L4x4x4	Beam	Single Angle	A36 Gr.36	Typical
29	M29	N43	N73			Tieback	Beam	Single Angle	A36 Gr.36	Typical
30	M30	N85	N88			Mod Bracing	Beam	Single Angle	A36 Gr.36	Typical
31	M31	N87	N86			Mod Bracing	Beam	Single Angle	A36 Gr.36	Typical
32	M32	N91	N95			L4x4x4	Beam	Single Angle	A36 Gr.36	Typical
33	M33	N92	N96			L4x4x4	Beam	Single Angle	A36 Gr.36	Typical

Material Takeoff

	Material	Size	Pieces	Length(In)	Weight(LB)
1	General				
2	RIGID		8	43.2	0
3	Total General		8	43.2	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	L1/2x1/2x1/8	1	71.8	6
7	A36 Gr.36	L3x3x3	1	36.5	11.3
8	A36 Gr.36	L4x4x4	8	833.4	456.1
9	A36 Gr.36	L5x3x4	2	96.7	53.2
10	A53 GR B	HSS3x3x3	2	44	23.6
11	A53 GR B	PIPE 2.0	6	431	124.7
12	A53 GR B	PIPE 2.5	2	309	141.1
13	A53 GR B	PIPE 4.0X	3	441	517.7
14	Total HR Steel		25	2263.3	1333.7



Basic Load Cases

BLC Description	Category	X Grav.	Y Gr...	Z Gra...	Joint	Point	Distributed	Area(Member)	Surface(Plate/Wall)
1 Self Weight	DL		-1		20				
2 Wind Load AZI 000	OL1				20			1	
3 Wind Load AZI 090	OL2				20			1	
4 Service Live	OL3				1				
5 Service Live Ecc...	OL4				1				
6 Service Live Ecc...	OL5				1				
7 BLC 2 Transient ...	None						27		
8 BLC 3 Transient ...	None						33		

Load Combinations

Description	S...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1 1.4D	Yes	Y		DL	1.4														
2 1.2D + 1.6W AZI 000	Yes	Y		DL	1.2	O...	1.6												
3 1.2D + 1.6W AZI 090	Yes	Y		DL	1.2	O...	1.6												
4 1.2D+1.6W AZI 180	Yes	Y		DL	1.2	O...	-1.6												
5 1.2D+1.6W AZI 270	Yes	Y		DL	1.2	O...	-1.6												
6 1.2D + 1.0W (15mph) AZI...	Yes	Y		DL	1.2	O...	.15	O...	1.6										
7 1.2D + 1.0 W (15 mph) A...	Yes	Y		DL	1.2	O...	.15	O...	1.6										
8 1.2D + 1.0 W (15 mph) A...	Yes	Y		DL	1.2	O...	-.15	O...	1.6										
9 1.2D + 1.0 W (15 mph) A...	Yes	Y		DL	1.2	O...	-.15	O...	1.6										
10 1.2D + 1.0W (15mph) AZI...	Yes	Y		DL	1.2	O...	.15	O...	1.6										
11 1.2D + 1.0 W (15 mph) A...	Yes	Y		DL	1.2	O...	.15	O...	1.6										
12 1.2D + 1.0 W (15 mph) A...	Yes	Y		DL	1.2	O...	-.15	O...	1.6										
13 1.2D + 1.0 W (15 mph) A...	Yes	Y		DL	1.2	O...	-.15	O...	1.6										
14 1.2D + 1.0W (15mph) AZI...	Yes	Y		DL	1.2	O...	.15	O...	1.6										
15 1.2D + 1.0 W (15 mph) A...	Yes	Y		DL	1.2	O...	.15	O...	1.6										
16 1.2D + 1.0 W (15 mph) A...	Yes	Y		DL	1.2	O...	-.15	O...	1.6										
17 1.2D + 1.0 W (15 mph) A...	Yes	Y		DL	1.2	O...	-.15	O...	1.6										

Envelope Joint Reactions

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N49	max	2017.251	5	86.166	4	0	2	0	1	0	1	0
2		min	-2392.049	3	-1377.588	2	0	4	0	1	0	1	0
3	N50	max	2033.838	5	722.555	3	0	2	0	1	0	1	0
4		min	-1721.839	3	-2488.297	5	0	4	0	1	0	1	0
5	N51	max	48.107	5	41.203	2	0	3	0	1	0	1	0
6		min	-81.85	3	-48.726	4	0	5	0	1	0	1	0
7	N52	max	214.848	5	140.808	3	0	2	0	1	0	1	0
8		min	-181.258	3	-178.221	5	0	4	0	1	0	1	0
9	N53	max	637.01	3	778.397	3	543.784	3	0	1	0	1	0
10		min	-487.127	5	-169.087	5	-215.689	5	0	1	0	1	0
11	N54	max	828.183	3	736.043	5	376.695	2	0	1	0	1	0
12		min	-1013.64	5	-389.059	3	-274.188	4	0	1	0	1	0
13	N57	max	3588.011	3	2913.892	2	7868.096	2	0	1	0	1	0
14		min	-3017.367	5	-532.701	4	-8179.888	4	0	1	0	1	0
15	N58	max	2537.947	3	3992.64	5	7995.542	2	0	1	0	1	0
16		min	-3035.358	5	-878.216	3	-7989.382	4	0	1	0	1	0
17	N93	max	755.398	3	1573.383	3	5895.491	4	0	1	0	1	0
18		min	-564.889	5	-517.789	5	-5898.175	2	0	1	0	1	0
19	N94	max	1059.528	3	1739.222	5	5993.182	4	0	1	0	1	0
20		min	-1259.585	5	-513.793	3	-8123.057	2	0	1	0	1	0
21	N95	max	287.474	5	61.149	5	0	4	0	1	0	1	0
22		min	-377.601	3	-315.95	3	0	2	0	1	0	1	0



Company : Infnlgy Engineering, PLLC
 Designer : MRB
 Job Number : 195-036
 Model Name : CT81XC007 / CT03XC350 Danbury Hospital

July 9, 2015

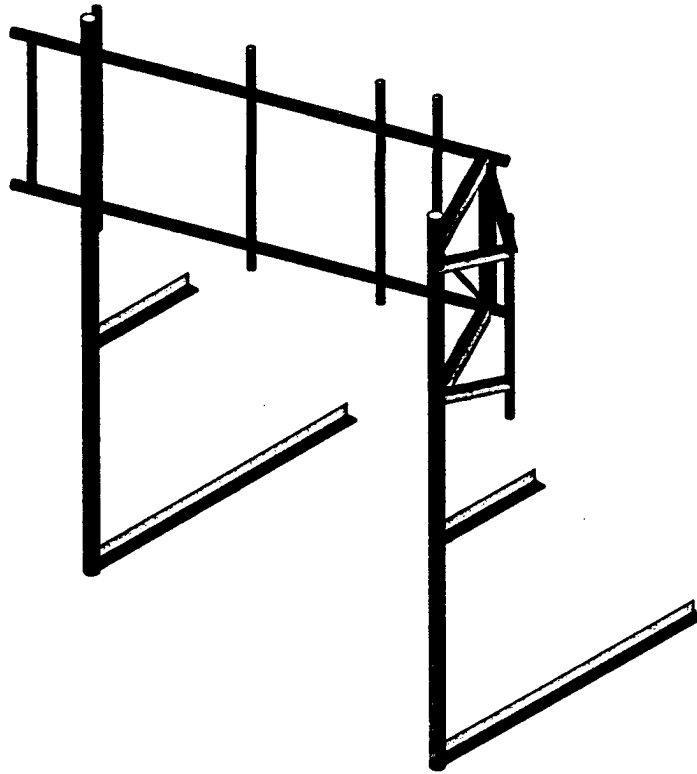
Checked By: JRJ

Envelope Joint Reactions (Continued)

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC	
23	N96	max	513.377	5	240.151	3	0	4	0	1	0	1	0	1
24		min	-408.408	3	-598.721	5	0	2	0	1	0	1	0	1
25	Totals:	max	4243.052	3	2958.591	1	4808.081	2						
26		min	-4243.058	5	2534.215	2	-4808.038	4						

Envelope AISC 14th(360-10): LRFD Steel Code Checks

Mem...	Shape	Code Check	Loc [in]	LC	Shear	phi...	phi...	phi...	phi...	Eqn	
1	M25	L4x4x4	.966	0	.124	30z3	53...	62...	31...	67...	H...
2	M20	PIPE 4.0X	.866	111.148	.165	1...	254...	13...	14...	14...	H...
3	M26	L4x4x4	.853	0	.127	30y5	53...	62...	31...	67...	H...
4	M3	PIPE 4.0X	.852	111.148	.284	1...	254...	13...	14...	14...	H...
5	M32	L4x4x4	.757	0	.064	2...y3	43...	62...	31...	67...	H...
6	M33	L4x4x4	.709	0	.058	2...y5	43...	62...	31...	67...	H...
7	M27	L4x4x4	.552	0	.037	2...y3	24...	62...	31...	63...	H...
8	M19	L5x3x4	.453	0	.030	0 z5	40...	62...	15...	58...	H...
9	M28	L4x4x4	.452	30.333	.035	2...z5	24...	62...	31...	57...	H...
10	M30	L4x4x4	.408	108.745	.025	0 z2	58...	62...	31...	40...	H...
11	M31	L4x4x4	.402	97.85	.024	2...z2	58...	62...	31...	40...	H...
12	M9	PIPE 2.0	.317	64.969	.037	6...	219...	32...	18...	18...	H...
13	M21	L1/2x1/2x1/8	.274	71.757	.008	7...z5	81...	98...	10...	24...	H...
14	M15	PIPE 2.0	.244	64.969	.057	6...	319...	32...	18...	18...	H...
15	M18	L5x3x4	.241	44.846	.020	0 z5	40...	62...	19...	68...	H...
16	M2	PIPE 2.5	.236	24.141	.069	2...	213...	50...	35...	35...	H...
17	M1	PIPE 2.5	.207	24.141	.070	1...	413...	50...	35...	35...	H...
18	M4	PIPE 2.0	.189	64.969	.034	6...	919...	32...	18...	18...	H...
19	M22	PIPE 2.0	.173	57.604	.076	5...	321...	32...	18...	18...	H...
20	M12	PIPE 2.0	.137	64.969	.038	6...	319...	32...	18...	18...	H...
21	M23	HSS3x3x3	.084	0	.039	22y3	58...	59...	51...	51...	H...
22	M24	HSS3x3x3	.081	0	.051	22y5	58...	59...	51...	51...	H...
23	M5	PIPE 2.0	.047	53	.021	53	225...	32...	18...	18...	H...
24	M29	L3x3x3	.018	18.81	.010	0 z2	26...	38...	13...	27...	H...
25	M6	PIPE 4.0X	.005	27.052	.009	0	912...	13...	14...	14...	1H...



Infinigy Engineering, PLLC

MRB

195-036

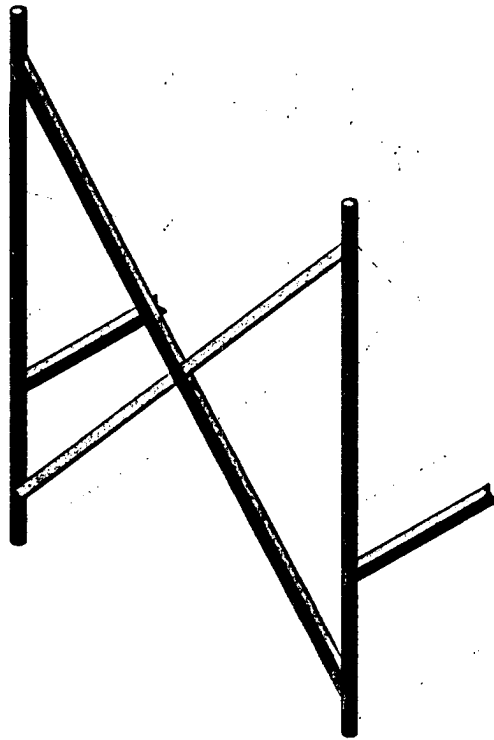
Danbury Hospital

CT03XC350 Beta & Gamma Sectors

Existing Configuration

July 9, 2015 at 3:43 PM

Frame 1.r3d



Infinigy Engineering, PLLC

MRB

195-036

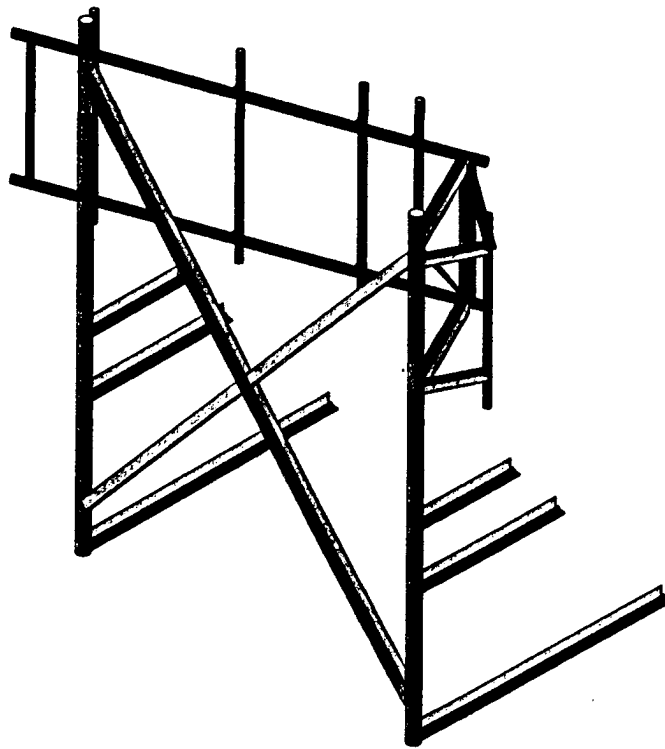
Danbury Hospital

CT03XC350 Beta & Gamma Sectors

Modifications

July 9, 2015 at 3:33 PM

Frame 1.r3d



Infinigy Engineering, PLLC

MRB

195-036

Danbury Hospital

CT03XC350 Beta & Gamma Sectors

Final Configuration

July 9, 2015 at 3:32 PM

Frame 1.r3d

Appearance Wind Load Calculation Per TIA-222-G

Windspeed 100 mph
 Exposure B
 Wind Direction Factor, K_d 0.85 Table 2-2
 Gust Effect Factor, G_e 1 2.6.9
 Structure Class 3
 Terrain AGI 155 R
 Topographic Category 1 R
 Crest Height 0 R
 Side Face Angle, θ 60 degrees
 Mount Member Shape Round Flat/Round
 Sector S
 Mount Type Flat/Round
 Number of Sectors 1
 Carrier Sprint

C_{pe} (flat)	28.03
C_{pe} (roof)	33.63

Appearance Name	Existing / Proposed?	Quantity	M11, #S1	#S2	Weight (lb)	Height (in)	Width (in)	Depth (in)	Is	Input Appearance Information										
										Parrel/TTA	Shape Front	Shape Side	(EPAL) (ft ²)	(EPAL) (ft ²)	(EPAL) (ft ²)	Fo (Front)	Fo (Side)	Fo (Angle) Normal	Fo (Angle) 90°	
RFS APVSPPLB-C-A20	E	3.0	1	1	57.0	72.0	11.8	7.0	1.0	P	F	F	8.02	5.28	5.97	7.34	224.91	148.08	167.29	205.70
RFS APVSPPLB-C-A20	E	3.0	1	1	57.0	72.0	11.8	7.0	1.0	P	F	F	8.02	5.28	5.97	7.34	224.91	148.08	167.29	205.70
Alcantal-Lucant 1900 MHz 6x4S BRH	E	6.0	2	2	60.0	25.0	11.1	11.4	1.0	P	F	F	2.31	2.38	2.36	2.33	64.82	64.57	66.13	65.25
Alcantal-Lucant 1900 MHz 6x4S BRH	E	6.0	2	2	60.0	25.0	11.1	11.4	1.0	P	F	F	2.31	2.38	2.36	2.33	64.82	64.57	66.13	65.25
Alcantal-Lucant 800 MHz BRH	E	6.0	2	2	53.0	19.7	13.0	10.8	1.0	P	F	F	2.13	1.77	1.86	2.04	59.82	49.69	52.22	57.29
TTA	E	6.0	2	2	20.0	18.0	6.0	6.0	1.0	P	F	F	0.92	0.92	0.92	0.92	25.69	25.69	25.69	25.69
RFS APVITM14-C-120	P	3.0	1	1	52.9	53.3	12.6	6.3	1.0	P	F	F	5.96	3.38	4.02	5.31	166.91	94.68	112.74	148.85
RFS APVITM14-C-120	P	3.0	1	1	52.9	53.3	12.6	6.3	1.0	P	F	F	5.96	3.38	4.02	5.31	166.91	94.68	112.74	148.85
Alcantal-Lucant TD-BRHUC20	P	6.0	2	2	66.1	25.4	17.5	5.7	1.0	P	F	F	3.70	1.29	1.90	3.10	103.82	36.27	53.15	86.99



Company : Infinigy Engineering, PLLC
 Designer : MRB
 Job Number : 195-036
 Model Name : CTB1XC007 / CT03XC350 Danbury Hospital

July 9, 2015

Checked By: JRJ

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N5	N12			Horizontal 1	Beam	Pipe	A53 GR B	Typical
2	M2	N6	N13			Horizontal 1	Beam	Pipe	A53 GR B	Typical
3	M3	N2	N1			Pipe Mast	Beam	Pipe	A53 GR B	Typical
4	M4	N11	N16			Pipe Mount	Beam	Pipe	A53 GR B	Typical
5	M5	N7	N8			Pipe Mount	Beam	Pipe	A53 GR B	Typical
6	M6	N14	N15			Pipe Mast	Beam	Pipe	A53 GR B	Typical
7	M7	N9	N17			RIGID	None	None	RIGID	Typical
8	M8	N10	N18			RIGID	None	None	RIGID	Typical
9	M9	N23	N24			Pipe Mount	Beam	Pipe	A53 GR B	Typical
10	M10	N3	N19			RIGID	None	None	RIGID	Typical
11	M11	N4	N20			RIGID	None	None	RIGID	Typical
12	M12	N27	N28			Pipe Mount	Beam	Pipe	A53 GR B	Typical
13	M13	N25	N29			RIGID	None	None	RIGID	Typical
14	M14	N28	N30			RIGID	None	None	RIGID	Typical
15	M15	N35	N36			Pipe Mount	Beam	Pipe	A53 GR B	Typical
16	M16	N31	N33			RIGID	None	None	RIGID	Typical
17	M17	N32	N34			RIGID	None	None	RIGID	Typical
18	M18	N37	N14		180	L5x3x1/4	Beam	Single Angle	A36 Gr.36	Typical
19	M19	N38	N15		180	L5x3x1/4	Beam	Single Angle	A36 Gr.36	Typical
20	M20	N39	N40			Pipe Mast	Beam	Pipe	A53 GR B	Typical
21	M21	N37	N15			Angle Brace	Beam	Single Angle	A36 Gr.36	Typical
22	M22	N46	N45			Pipe Mount	Beam	Pipe	A53 GR B	Typical
23	M23	N43	N41			Site Pro Stand..	Beam	SquareTube	A53 GR B	Typical
24	M24	N44	N42			Site Pro Stand..	Beam	SquareTube	A53 GR B	Typical
25	M25	N24A	N49			L4x4x4	Beam	Single Angle	A36 Gr.36	Typical
26	M26	N48	N50			L4x4x4	Beam	Single Angle	A36 Gr.36	Typical
27	M27	N23A	N51			L4x4x4	Beam	Single Angle	A36 Gr.36	Typical
28	M28	N47	N52			L4x4x4	Beam	Single Angle	A36 Gr.36	Typical
29	M29	N43	N73			Tieback	Beam	Single Angle	A36 Gr.36	Typical
30	M30	N85	N88			Mod Bracing	Beam	Single Angle	A36 Gr.36	Typical
31	M31	N87	N86			Mod Bracing	Beam	Single Angle	A36 Gr.36	Typical
32	M32	N91	N95			L4x4x4	Beam	Single Angle	A36 Gr.36	Typical
33	M33	N92	N96			L4x4x4	Beam	Single Angle	A36 Gr.36	Typical

Material Takeoff

	Material	Size	Pieces	Length[In]	Weight[LB]
1	General				
2	RIGID		8	43.2	0
3	Total General		8	43.2	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	L1/2x1/2x1/8	1	71.8	6
7	A36 Gr.36	L3x3x3	1	36.5	11.3
8	A36 Gr.36	L4x4x4	8	833.4	456.1
9	A36 Gr.36	L5x3x4	2	96.7	53.2
10	A53 GR B	HSS3x3x3	2	44	23.6
11	A53 GR B	PIPE 2.0	6	431	124.7
12	A53 GR B	PIPE 2.5	2	309	141.1
13	A53 GR B	PIPE 4.0X	3	441	517.7
14	Total HR Steel		25	2263.3	1333.7



Company : Infinigy Engineering, PLLC
 Designer : MRB
 Job Number : 195-036
 Model Name : CT81XC007 / CT03XC350 Danbury Hospital

July 9, 2015

Checked By: JRJ

Basic Load Cases

BLC Description	Category	X Grav...	Y Gr...	Z Gr...	Joint	Point	Distributed	Area(Member)	Surface(Plate/Wall)
1 Self Weight	DL		-1		20				
2 Wind Load AZI 000	OL1				20			1	
3 Wind Load AZI 090	OL2				20			1	
4 Service Live	OL3				1				
5 Service Live Ecce..	OL4				1				
6 Service Live Ecce..	OL5				1				
7 BLC 2 Transient ...	None						27		
8 BLC 3 Transient ...	None						33		

Load Combinations

Description	S... P...	S... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...
1 1.4D	Yes Y	DL	1.4														
2 1.2D + 1.6W AZI 000	Yes Y	DL	1.2	O...	1.6												
3 1.2D + 1.6W AZI 090	Yes Y	DL	1.2	O...	1.6												
4 1.2D+1.6W AZI 180	Yes Y	DL	1.2	O...	-1.6												
5 1.2D+1.6W AZI 270	Yes Y	DL	1.2	O...	-1.6												
6 1.2D + 1.0W (15mph) AZI...	Yes Y	DL	1.2	O...	1.5	O...	1.6										
7 1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	1.5	O...	1.6										
8 1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	-1.5	O...	1.6										
9 1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	-1.5	O...	1.6										
10 1.2D + 1.0W (15mph) AZI...	Yes Y	DL	1.2	O...	1.5	O...	1.6										
11 1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	1.5	O...	1.6										
12 1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	-1.5	O...	1.6										
13 1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	-1.5	O...	1.6										
14 1.2D + 1.0W (15mph) AZI...	Yes Y	DL	1.2	O...	1.5	O...	1.6										
15 1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	1.5	O...	1.6										
16 1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	-1.5	O...	1.6										
17 1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	-1.5	O...	1.6										

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1 N49	max 2017.251	5	86.166	4	0	2	0	1	0	1	0	1
2	min -2392.049	3	-1377.566	2	0	4	0	1	0	1	0	1
3 N50	max 2033.836	5	722.555	3	0	2	0	1	0	1	0	1
4	min -1721.839	3	-2468.297	5	0	4	0	1	0	1	0	1
5 N51	max 48.107	5	41.203	2	0	3	0	1	0	1	0	1
6	min -81.85	3	-48.726	4	0	5	0	1	0	1	0	1
7 N52	max 214.846	5	140.608	3	0	2	0	1	0	1	0	1
8	min -181.258	3	-178.221	5	0	4	0	1	0	1	0	1
9 N53	max 637.01	3	778.397	3	543.784	3	0	1	0	1	0	1
10	min -467.127	5	-169.067	5	-215.689	5	0	1	0	1	0	1
11 N54	max 828.163	3	736.043	5	376.695	2	0	1	0	1	0	1
12	min -1013.64	5	-369.059	3	-274.168	4	0	1	0	1	0	1
13 N57	max 3588.011	3	2913.892	2	7868.096	2	0	1	0	1	0	1
14	min -3017.367	5	-532.701	4	-8179.866	4	0	1	0	1	0	1
15 N58	max 2537.947	3	3992.64	5	7995.542	2	0	1	0	1	0	1
16	min -3035.358	5	-876.216	3	-7969.362	4	0	1	0	1	0	1
17 N93	max 755.398	3	1573.363	3	5895.491	4	0	1	0	1	0	1
18	min -564.869	5	-517.789	5	-5898.175	2	0	1	0	1	0	1
19 N94	max 1059.526	3	1739.222	5	5993.182	4	0	1	0	1	0	1
20	min -1259.585	5	-513.793	3	-6123.057	2	0	1	0	1	0	1
21 N95	max 287.474	5	61.149	5	0	4	0	1	0	1	0	1
22	min -377.601	3	-315.95	3	0	2	0	1	0	1	0	1



Company : Infnigy Engineering, PLLC
 Designer : MRB
 Job Number : 195-038
 Model Name : CT81XC007 / CT03XC350 Danbury Hospital

July 9, 2015

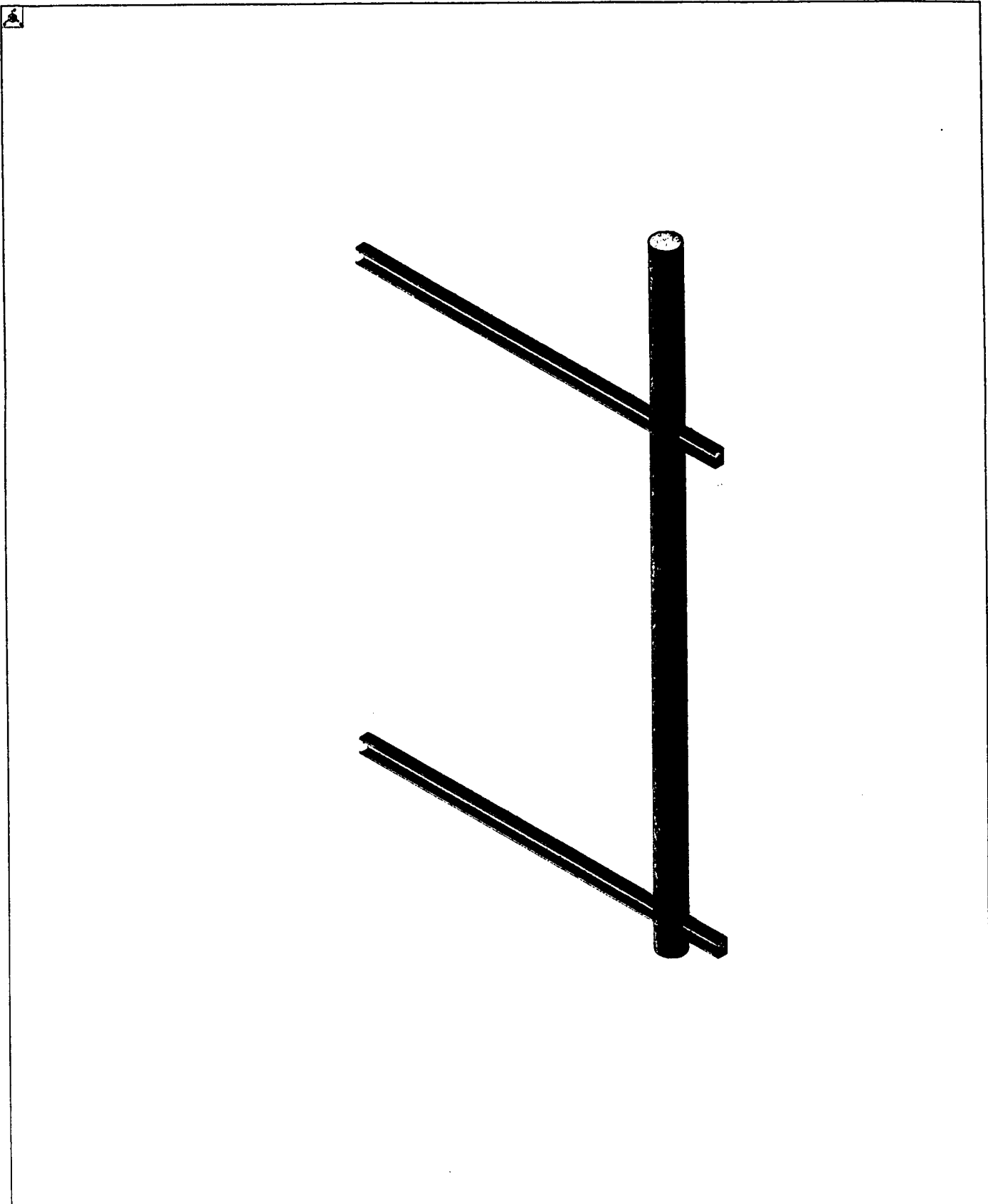
Checked By: JRJ

Envelope Joint Reactions (Continued)

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC	
23	N96	max	513.377	5	240.151	3	0	4	0	1	0	1	0	1
24		min	-408.406	3	-596.721	5	0	2	0	1	0	1	0	1
25	Totals:	max	4243.052	3	2956.591	1	4806.081	2						
26		min	-4243.056	5	2534.215	2	-4806.036	4						

Envelope AISC 14th(360-10): LRFD Steel Code Checks

Mem...	Shape	Code Check	Loc [in]	LC	Shear	L	phi	phi	phi	phi	Eqn
1	M25	L4x4x4	.966	0	.124	30z3	53...	62...	31...	67...	H...
2	M20	PIPE 4.0X	.866	111.146	.165	1...	254...	13...	14...	14...	H...
3	M26	L4x4x4	.853	0	.127	30y	53...	62...	31...	67...	H...
4	M3	PIPE 4.0X	.852	111.146	.264	1...	254...	13...	14...	14...	H...
5	M32	L4x4x4	.757	0	.064	2...y	343...	62...	31...	67...	H...
6	M33	L4x4x4	.709	0	.058	2...y	543...	62...	31...	67...	H...
7	M27	L4x4x4	.552	0	.037	2...y	324...	62...	31...	63...	H...
8	M19	L5x3x4	.453	0	.030	0 z	540...	62...	15...	55...	H...
9	M28	L4x4x4	.452	30.333	.035	2...z	524...	62...	31...	57...	H...
10	M30	L4x4x4	.408	106.745	.025	0 z	258...	62...	31...	40...	H...
11	M31	L4x4x4	.402	97.85	.024	2...z	258...	62...	31...	40...	H...
12	M9	PIPE 2.0	.317	64.969	.037	6...	219...	32...	18...	18...	H...
13	M21	L1/2x1/2x1/8	.274	71.757	.008	7...z	561...	96...	10...	24...	H...
14	M15	PIPE 2.0	.244	64.969	.057	6...	319...	32...	18...	18...	H...
15	M18	L5x3x4	.241	44.846	.020	0 z	540...	62...	19...	68...	H...
16	M2	PIPE 2.5	.236	24.141	.069	2...	213...	50...	35...	35...	H...
17	M1	PIPE 2.5	.207	24.141	.070	1...	413...	50...	35...	35...	H...
18	M4	PIPE 2.0	.189	64.969	.034	6...	919...	32...	18...	18...	H...
19	M22	PIPE 2.0	.173	57.604	.076	5...	321...	32...	18...	18...	H...
20	M12	PIPE 2.0	.137	64.969	.038	6...	319...	32...	18...	18...	H...
21	M23	HSS3x3x3	.064	0	.039	22y	358...	59...	51...	51...	H...
22	M24	HSS3x3x3	.061	0	.051	22y	558...	59...	51...	51...	H...
23	M5	PIPE 2.0	.047	53	.021	53	225...	32...	18...	18...	H...
24	M29	L3x3x3	.018	18.61	.010	0 z	226...	35...	13...	27...	H...
25	M6	PIPE 4.0X	.005	27.052	.009	0	912...	13...	14...	14...	H...



Infinigy Engineering, PLLC
MRB
195-036

Danbury Hospital
CT81XC007 Alpha & Beta Sectors

Existing Configuration
July 9, 2015 at 4:03 PM
Frame 2a.r3d



Infinigy Engineering, PLLC

MRB

195-036

Danbury Hospital

CT81XC007 Alpha & Beta Sectors

Modification

July 9, 2015 at 4:06 PM

Frame 2.r3d



Infinigy Engineering, PLLC

MRB

195-036

Danbury Hospital

CT81XC007 Alpha & Beta Sectors

Final Configuration

July 9, 2015 at 4:09 PM

Frame 2.r3d

Appearance Wind Load Calculation Per TIA-222-G

Windspeed 100 mph
 Exposure B
 Wind Direction Factor, K_d 0.85 Table 2-2
 Gust Effect Factor, G_e 1 2.63
 Structure Class 3
 Centerline AGL 131 ft
 Topographic Category 1
 Crest Height 0 ft
 Side Face Angle, θ 60 degrees
 Mount Member Shape Flat/Round
 Mount Member Shape Flat/Round
 Mount Type Flat/Round
 Number of Sectors 1
 Carrier Sprint

C_p (roof) 26.71
 C_p (wall) 31.06

Appearance Name	Existing / Proposed?	Quantity	RMI	MSL	MSL	Weight (lb)	Height (ft)	Width (ft)	Depth (ft)	Ka	Input Appearance Information									
											Panel/ TIA	Shape Front	Shape Side	EPAL ₁ (ft ²)	EPAL ₂ (ft ²)	EPAL ₃ (ft ²)	EPAL ₄ (ft ²)	Fa (Front)	Fa (Side)	Fa (Angle) Normal
RFS AP7ASPP18-C-A20	E	1.0	1			57.0	72.0	11.8	7.0	1.0	P	F	8.02	5.28	5.97	7.34	214.36	141.13	150.44	196.05
RFS AP7ASPP18-C-A20	E	1.0	1			57.0	72.0	11.8	7.0	1.0	P	F	8.02	5.28	5.97	7.34	214.36	141.13	150.44	196.05
Aluminum-Luxon 1900 MHz 4x4S RRH	E	2.0	2			60.0	25.0	11.1	11.4	1.0	P	F	2.31	2.38	2.36	2.33	61.77	63.44	63.03	62.19
Aluminum-Luxon 1900 MHz 4x4S RRH	E	2.0	2			60.0	25.0	11.1	11.4	1.0	P	F	2.31	2.38	2.36	2.33	61.77	63.44	63.03	62.19
Aluminum-Luxon 800 MHz RRH	E	2.0	2			53.0	15.7	13.0	10.8	1.0	P	F	2.13	1.77	1.86	2.04	57.01	47.36	48.77	54.60
TTA	E	2.0	2			20.0	15.0	6.0	6.0	1.0	P	F	0.92	0.92	0.92	0.92	24.49	24.49	24.49	24.49
TTA	E	2.0	2			20.0	15.0	6.0	6.0	1.0	P	F	0.92	0.92	0.92	0.92	24.49	24.49	24.49	24.49
RFS AP7ASPP18-C-A20	P	1.0	1			52.9	53.3	12.6	6.3	1.0	P	F	5.96	3.38	4.02	5.31	159.08	90.24	107.45	141.87
RFS AP7ASPP18-C-A20	P	1.0	1			52.9	53.3	12.6	6.3	1.0	P	F	5.96	3.38	4.02	5.31	159.08	90.24	107.45	141.87
Aluminum-Luxon TD-4RH1X20	P	2.0	2			66.1	25.4	17.5	5.7	1.0	P	F	3.70	1.29	1.90	3.10	98.95	34.56	50.66	82.85



Company : Infinigy Engineering, PLLC
 Designer : MRB
 Job Number : 195-036
 Model Name : Danbury Hospital

July 9, 2015

Checked By: JRJ

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N3	N1			Pipe Mount	Beam	Pipe	A53 GR B	Typical
2	M4	N21	N19			Pipe Mount	Beam	Pipe	A53 GR B	Typical

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[LB]
1	Hot Rolled Steel				
2	A53 GR B	PIPE 2.5	2	144	65.7
3	Total HR Steel		2	144	65.7

Basic Load Cases

	BLC Description	Category	X Grav...	Y Gr...	Z Gra...	Joint	Point	Distributed	Area(Member)	Surface(Plate/Wall)
1	Self Weight	DL		-1		4				
2	Wind Load AZI 000	OL1				4			1	
3	Wind Load AZI 090	OL2				4		2		
4	Service Live	OL3								
5	Service Live Ecce...	OL4								
6	Service Live Ecce...	OL5								
7	BLC 2 Transient ...	None						2		

Load Combinations

	Description	S... P...	S... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...	Fa... B...
1	1.4D	Yes Y	DL	1.4													
2	1.2D + 1.6W AZI 000	Yes Y	DL	1.2	O...	1.6											
3	1.2D + 1.6W AZI 090	Yes Y	DL	1.2	O...	1.6											
4	1.2D+1.6W AZI 180	Yes Y	DL	1.2	O...	-1.6											
5	1.2D+1.6W AZI 270	Yes Y	DL	1.2	O...	-1.6											
6	1.2D + 1.0W (15mph) AZI...	Yes Y	DL	1.2	O...	.15	O...	1.6									
7	1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	.15	O...	1.6									
8	1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	-.15	O...	1.6									
9	1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	-.15	O...	1.6									
10	1.2D + 1.0W (15mph) AZI...	Yes Y	DL	1.2	O...	.15	O...	1.6									
11	1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	.15	O...	1.6									
12	1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	-.15	O...	1.6									
13	1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	-.15	O...	1.6									
14	1.2D + 1.0W (15mph) AZI...	Yes Y	DL	1.2	O...	.15	O...	1.6									
15	1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	.15	O...	1.6									
16	1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	-.15	O...	1.6									
17	1.2D + 1.0 W (15 mph) A...	Yes Y	DL	1.2	O...	-.15	O...	1.6									

Envelope Joint Reactions

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N2	max	294,101	3	121,984	1	410,751	2	1151,648	4	0	811,636	3
		min	-294,101	5	104,558	2	-410,751	4	-1151,648	2	0	-811,636	5
3	N3	max	6,198	3	3,835	1	6,156	2	1,026	4	0	1,033	3
		min	-6,198	5	3,287	2	-6,156	4	-1,026	2	0	-1,033	5
5	N20	max	212,501	3	116,384	1	322,111	2	893,583	4	0	574,047	3
		min	-212,501	5	99,758	2	-322,111	4	-893,583	2	0	-574,047	5
7	N21	max	6,198	3	3,835	1	6,156	2	1,026	4	0	1,033	3
		min	-6,198	5	3,287	2	-6,156	4	-1,026	2	0	-1,033	5
9	Totals:	max	518,999	3	246,038	1	745,172	2					



Company : Infinigy Engineering, PLLC
 Designer : MRB
 Job Number : 195-036
 Model Name : Danbury Hospital

July 9, 2015

Checked By: JRJ

Envelope Joint Reactions (Continued)

Joint	X (lb)	LC	Y (lb)	LC	Z (lb)	LC	MX (lb-ft)	LC	MY (lb-ft)	LC	MZ (lb-ft)	LC
10	min	-618.999	5	210.89	2	-745.172	4					

Envelope AISC 14th(360-10): LRFD Steel Code Checks

Mem...	Shape	Code Check	Loc [in]	LC	Shear ...	L...	phi...	phi...	phi...	phi...	Eqn
1	M1 PIPE 2.5	.322	12	2	.027	12	2 37...	50...	35...	35...	1 H...
2	M4 PIPE 2.5	.250	12	2	.021	12	2 37...	50...	35...	35...	1 H...

- proposed equipment : (1) battery cabinet w = 2640 lbs
(1) BTS cabinet w = 1074 lbs

As per the structural analysis by Goodkind & O'Dea job # 1849, dated April 3, 1997

existing equipment = (1) 1100 lb cabinet supported by W14x26
(1) 850 lb cabinet 25' long.
Steel grade = 36 ksi

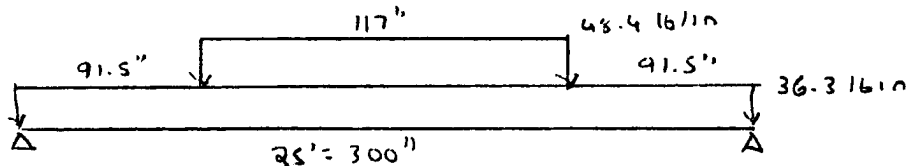
$$\text{Floor load} = 36.3 \text{ lb/in}$$

$$S_{W14 \times 26} = 35.3 \text{ in}^3$$

$$\text{existing + proposed equipment load} = \frac{(2640 \text{ lbs} + 1074 \text{ lbs} + 1100 \text{ lbs} + 850 \text{ lbs})}{(31'' + 22' + 32'' + 32'')} \\ = 48.4 \text{ lb/in}$$

$$\text{Resultant } 48.4 \text{ lb/in} = \frac{48.4 \text{ lb/in} (117'')}{2(300'')} (2 \cdot 91.5'' + 117'') =$$

$$= 9.438 \text{ lb/in} (300 \text{ in}) = 2831.4 \text{ lb}$$



$$M_{\max} = \left[\frac{36.3 \text{ lb/in} (300'')^2}{8} + 2831.4 \text{ lb} \cdot \left(91.5'' + \frac{2831.4 \text{ lb}}{2 \cdot 48.4 \text{ lb/in}} \right) \right] \\ = (408.4 \text{ k-in} + 341.9 \text{ k-in}) \\ = 750.3 \text{ k-in}$$

$$Z_{W14 \times 26} = 40.2 \text{ in}^3$$

$$\phi M_n = 0.9 Z_y f_y \\ = 0.9 (40.2 \text{ in}^3) (36 \text{ ksi}) = 1302 \text{ k-in} > 750.3 \text{ k-in}$$

= 57.4% Capacity \therefore ✓ O.K.

INFINIGY Design. Build. Deliver.

1033 Watervliet Shaker Road | Albany, NY 12205
Phone: 518-690-0790 | Fax: 518-690-0793
www.infinigy.com

SITE INFORMATION:

CT 81 XC 007 - Danbury Hospital

DATE:

5-28-15

INITIALS:

MRB

LATITUDE:

41° 24' 17.9"

LONGITUDE:

73° 26' 45.21"

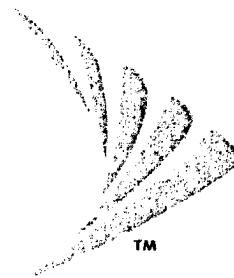
SHEET:

1 of 1



C Squared Systems, LLC
65 Dartmouth Drive
Auburn, NH 03032
Phone: (603) 644-2800
support@csquaredsystems.com

Sprint[®]



RADIO FREQUENCY EXPOSURE REPORT

CT81XC007/CT03XC350 – DANBURY HOSPITAL

**24 HOSPITAL AVENUE
DANBURY, CT 06810**

August 21, 2015

Table of Contents

1. Introduction.....	1
2. FCC Guidelines for Evaluating RF Radiation Exposure Limits	2
3. Measurement Procedure.....	3
4. RF Exposure Prediction Methods.....	4
5. Proposed Antenna Configuration	4
6. Measured Results	5
7. Calculated Results.....	7
8. Summary of Findings	8
9. Statement of Certification	8
Attachment A: References	9
Attachment B: FCC Limits for Maximum Permissible Exposure (MPE).....	10
Attachment C: Sprint Antenna Model Data Sheets and Patterns.....	12

List of Tables

Table 1: Site Specific Data	1
Table 2: Instrumentation Information.....	3
Table 3: Proposed Antenna Configuration	4
Table 4: Measurement Results.....	5
Table 5: Carrier Information (For Cumulative %MPE)	7
Table 6: Carrier Information (Lowest Sector)	7
Table 7: FCC Limits for Maximum Permissible Exposure	10

List of Figures

Figure 1: View of Danbury Hospital	1
Figure 2: Aerial View of Facility & All Measurement Locations	6
Figure 3: Graph of FCC Limits for Maximum Permissible Exposure (MPE).....	11

1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed modifications to the existing Sprint antennas, mounted on the rooftop of Danbury Hospital, located at 24 Hospital Avenue in Danbury, CT. The coordinates of the building are 41° 24' 18.03" N, 73° 26' 46.33" W. Sprint's antenna installation consists of six sectors between two sites (3 sectors per site).

Sprint is proposing the following modifications:

- 1) Remove three 1900MHz CDMA/EVDO antennas (CT81XC007);
- 2) Install three 865/1900MHz Network Vision antennas & associated RRUs (CT81XC007);
- 3) Install six 2500MHz LTE antennas & associated RRUs (CT81XC007 & CT03XC350).

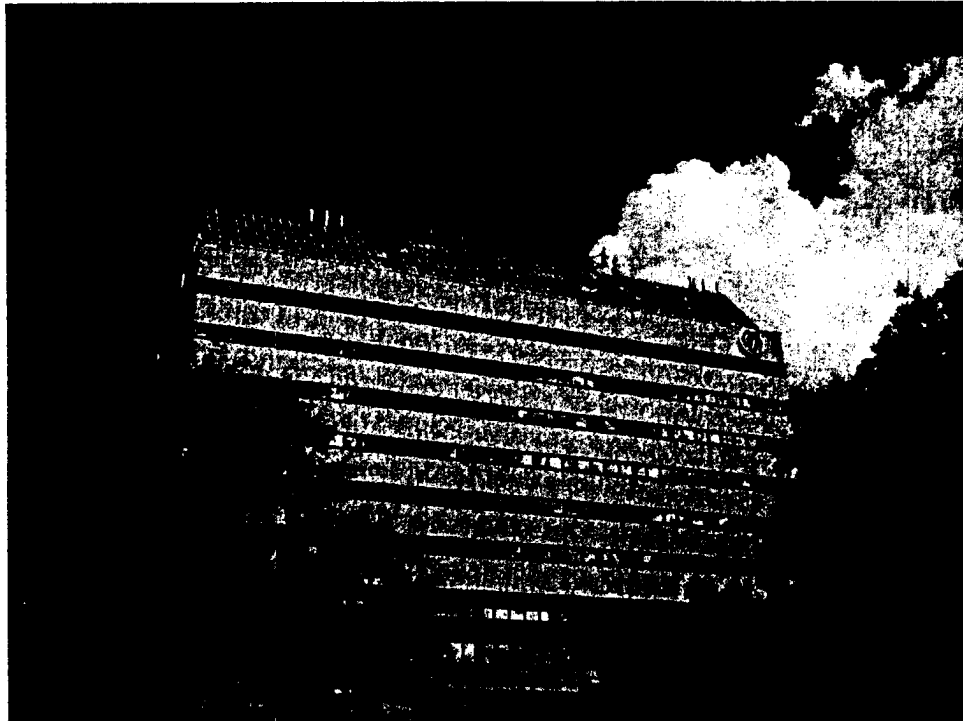


Figure 1: View of Danbury Hospital

Site Address	24 Hospital Ave, Danbury, CT
Latitude	41° 24' 18.03" N
Longitude	73° 26' 46.33" W
Site Elevation AMSL	467'
Survey Engineer	Dan Charlebois
Survey Date/Time	8/19/2014; 1:30PM – 4:00PM

Table 1: Site Specific Data

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm^2). The general population exposure limits for the various frequency ranges are defined in the attached "FCC Limits for Maximum Permissible Exposure (MPE)" in Attachment B of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment provided they are fully aware of the potential for exposure, and are able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels considered acceptable for occupational, or radio frequency trained individuals. Attachment B contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population / uncontrolled exposure and for occupational / controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

3. Measurement Procedure

Frequencies from 300 KHz to 50 GHz were measured using the Narda Probe EA 5091, E-Field, shaped, FCC probe in conjunction with the NBM550 survey meter. The EA 5091 probe is "shaped" such that in a mixed signal environment (i.e.: more than one frequency band is used in a particular location), it accurately measures the percent of MPE.

From FCC OET Bulletin No. 65 - Edition 97-01 – "A useful characteristic of broadband probes used in multiple-frequency RF environments is a frequency-dependent response that corresponds to the variation in MPE limits with frequency. Broadband probes having such a "shaped" response permit direct assessment of compliance at sites where RF fields result from antennas transmitting over a wide range of frequencies. Such probes can express the composite RF field as a percentage of the applicable MPEs".

Probe Description - As suggested in FCC OET Bulletin No. 65 - Edition 97-01, the response of the measurement instrument should be essentially isotropic, (i.e., independent of orientation or rotation angle of the probe). For this reason, the Narda EA 5091 probe was used for these measurements.

Sampling Description - At each measurement location, a spatially averaged measurement is collected over the height of an average human body. The NBM550 survey meter performs a time average measurement while the user slowly moves the probe over a distance range of 20 cm to 200 cm (about 6 feet) above ground level. The results recorded at each measurement location include average values over the spatial distance.

Instrumentation Information - A summary of specifications for the equipment used is provided in the table below.

Manufactures	Narda Microwave			
Probe	EA 5091, Serial# 01162			
Calibration Date	July 2015			
Calibration Interval	24 Months			
Meter	NBM550, Serial# F-0147			
Calibration Date	November 2014			
Calibration Interval	24 Months			
Probe Specifications	Frequency Range	Field Measured	Standard	Measurement Range
	300 KHz-50 GHz	Electric Field	U.S. FCC 1997 Occupational/Controlled	0.2 – 600 % of Standard

Table 2: Instrumentation Information

Instrument Measurement Uncertainty - The total measurement uncertainty of the NARDA measurement probe and meter is no greater than ±3 dB (0.5% to 6%), ±1 dB (6% to 100%), ±2 dB (100% to 600%). The factors which contribute to this include the probe's frequency response deviation, calibration uncertainty, ellipse ratio, and isotropic response¹. Every effort is taken to reduce the overall uncertainty during measurement collection including pointing the probe directly at the likely highest source of emissions.

¹ For further details, please refer to Narda Safety Test Solutions NBM550 Probe Specifications, pg. 64 http://www.narda-sts.us/pdf_files/DataSheets/NBM-Probes_DataSheet.pdf

4. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left(\frac{1.6^2 \times \text{EIRP}}{4\pi \times R^2} \right) \times \text{OffBeamLoss}$$

Where:

EIRP = Effective Isotropic Radiated Power

R = Radial Distance = $\sqrt{(H^2 + V^2)}$

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Ground reflection factor of 1.6

Off Beam Loss is determined by the selected antenna patterns

These calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. As a result, the predicted signal levels reported below are much higher than the actual signal levels will be from the final site configuration.

5. Proposed Antenna Configuration

Table 3 below lists the specifications of the proposed Sprint antenna configuration.

Cascade ID	Sector	TX Freq. (MHz)	Power at Antenna (Watts)	Ant Gain (dBd)	Power ERP (Watts)	Antenna Model	Beam Width	Mech. Downtilt	Length (ft)	Antenna Centerline Height (ft)
CT81XC007	Alpha	865	56	13.4	1225	APXVSPP18-C-A20	65	0	6	131.0
		1900	224	15.9	8715		65			
		2500	80	15.9	3112	APXVTM14-ALU-I20	65			
	Beta	865	56	13.4	1225	APXVSPP18-C-A20	65	0	6	131.0
		1900	224	15.9	8715		65			
		2500	80	15.9	3112	APXVTM14-ALU-I20	65			
	Gamma	865	56	13.4	1225	APXVSPP18-C-A20	65	0	6	155.0
		1900	224	15.9	8715		65			
		2500	80	15.9	3112	APXVTM14-ALU-I20	65			
CT03XC350	Alpha	865	56	13.4	1225	APXVSPP18-C-A20	65	0	6	155.0
		1900	256	15.9	9960		65			
		2500	80	15.9	3112	APXVTM14-ALU-I20	65			
	Beta	865	56	13.4	1225	APXVSPP18-C-A20	65	0	6	155.0
		1900	256	15.9	9960		65			
		2500	80	15.9	3112	APXVTM14-ALU-I20	65			
	Gamma	865	56	13.4	1225	APXVSPP18-C-A20	65	0	6	155.0
		1900	256	15.9	9960		65			
		2500	80	15.9	3112	APXVTM14-ALU-I20	65			

Table 3: Proposed Antenna Configuration²

² Transmit power assumes 0 dB of cable loss.

6. Measured Results

Measurements were recorded at ground level and on the top level of two parking garages located in close proximity to the hospital to establish a baseline %MPE value for the existing facility. The measured results, and a description of each survey location, are detailed in Table 4 below. The table consists of the 25 measurements recorded on August 19, 2015 between 1:30 P.M. and 4:00 P.M. in these publicly accessible areas around the hospital.

The highest spatially averaged measurement was 4.38% (Average Uncontrolled/General Population MPE) and was recorded at Location 4, on the top level of the Rizzo Parking Garage.

Meas. Location	Location Description	Latitude	Longitude	Dist. From Closest Sprint Sector (ft)	Measured % MPE (Uncontrolled / General)
1	Rizzo Parking Garage - Top Level	41.406318	-73.445006	532	1.09
2	Rizzo Parking Garage - Top Level	41.406084	-73.445878	365	2.76
3	Rizzo Parking Garage - Top Level	41.405727	-73.445639	258	2.89
4	Rizzo Parking Garage - Top Level	41.406007	-73.444826	474	4.38
5	Rizzo Parking Garage - Top Level	41.406140	-73.444247	626	3.45
6	Rizzo Parking Garage - Top Level	41.406546	-73.444504	680	3.90
7	Hospital Emergency Entrance	41.406724	-73.444286	768	1.54
8	Ambulance Entrance	41.405932	-73.443994	643	1.92
9	Corner of Emergency Department	41.405659	-73.444658	435	1.45
10	Duracell Center - Rear of Parking Lot	41.405144	-73.443006	836	1.33
11	Duracell Center - North of Main Entrance	41.405265	-73.444441	447	< 1.00
12	Hospital Ave & Forest Ave	41.406661	-73.445060	634	< 1.00
13	Hospital Ave & Edgewood Dr	41.406299	-73.446079	441	1.12
14	Danbury Hospital - Western Entrance	41.405376	-73.446338	129	< 1.00
15	Hospital Ave & Tamarack Ave	41.405712	-73.447777	431	< 1.00
16	Hospital Ave & Locust Ave	41.404718	-73.447321	241	1.02
17	90 Locust Ave	41.404555	-73.446551	163	< 1.00
18	Red Parking Garage - Top Level	41.404800	-73.443918	585	< 1.00
19	Red Parking Garage - Top Level	41.404665	-73.443394	733	< 1.00
20	Red Parking Garage - Top Level	41.404378	-73.443541	713	< 1.00
21	Red Parking Garage - Top Level	41.404119	-73.443640	718	< 1.00
22	Red Parking Garage - Top Level	41.404205	-73.444154	577	< 1.00
23	Red Parking Garage - Top Level	41.404542	-73.444000	576	< 1.00
24	Danbury Hospital - Valet Parking	41.404334	-73.444592	448	< 1.00
25	Danbury Hospital - Main Entrance	41.404512	-73.445577	189	< 1.00

Table 4: Measurement Results³

³ Due to measurement uncertainty at low levels (See Table 2), any readings outside the measurement range of the probe (< 1.00 % FCC General Population/Uncontrolled MPE) are noted as such.

Figure 2 below is an aerial view of the facility location and the surrounding area. Labeled points indicate the locations of the measurements recorded on August 19, 2015, as listed above in Table 4.

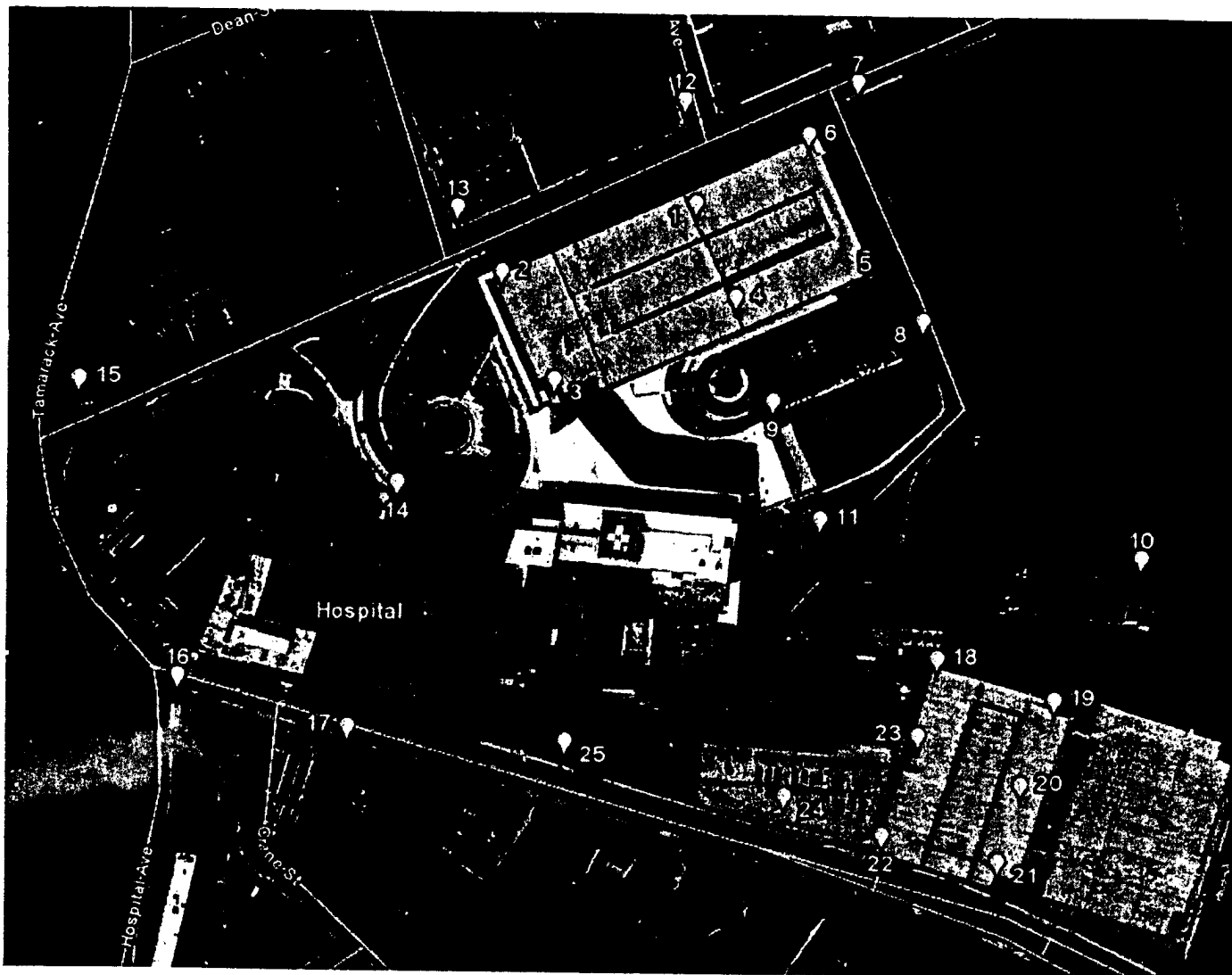


Figure 2: Aerial View of Facility & All Measurement Locations

7. Calculated Results

Table 5 below outlines the proposed power density information for the site. Due to the directional nature of the Sprint proposed panel antennas, the majority of the RF power will be focused out towards the horizon. As a result, there will be less RF power directed below the antennas relative to the horizon, and consequently lower power density levels around the base of the building. Please refer to Attachment C for the vertical patterns of the Sprint panel antennas. All values shown in Table 5 include a nominal 10 dB off-beam pattern loss to account for the lower relative gain below the antenna.

	Carrier	Antenna Height (Feet)	Operating Frequency (MHz)	Number of Trans.	ERP Per Transmitter (Watts)	Power Density (mw/cm ²)	Limit	%MPE
Proposed Configuration	Sprint CDMA	155	865	1	350	0.0005	0.5767	0.09%
	Sprint LTE	155	865	1	875	0.0013	0.5767	0.23%
	Sprint CDMA/EVDO	155	1900	11	622	0.0102	1.0000	1.02%
	Sprint LTE	155	1900	1	3112	0.0047	1.0000	0.47%
	Sprint LTE	155	2500	1	3112	0.0047	1.0000	0.47%
							Total	2.27%

Table 5: Carrier Information (For Cumulative %MPE)^{4 5}

Two sectors of the CT81XC007 site are at a lower centerline than the other sectors (131' AGL). The table outlines the proposed power density information for one of these lower centerline sectors. However, this value was not used in the cumulative (measured + calculated) value because the azimuth of the lower centerline sectors point away from the location of the maximum measured value.

	Carrier	Antenna Height (Feet)	Operating Frequency (MHz)	Number of Trans.	ERP Per Transmitter (Watts)	Power Density (mw/cm ²)	Limit	%MPE
Proposed Configuration	Sprint CDMA	131	865	1	350	0.0007	0.5767	0.13%
	Sprint LTE	131	865	1	875	0.0018	0.5767	0.32%
	Sprint CDMA/EVDO	131	1900	9	622	0.0117	1.0000	1.17%
	Sprint LTE	131	1900	1	3112	0.0065	1.0000	0.65%
	Sprint LTE	131	2500	1	3112	0.0065	1.0000	0.65%
							Total	2.92%

Table 6: Carrier Information (Lowest Sector)

⁴ Antenna heights for Sprint are based on the Infinigy Construction Drawings, dated 7/10/2015.

⁵ Please note that %MPE values listed are rounded to two decimal points. The total %MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

8. Summary of Findings

A number of publicly accessible areas at ground level and on the parking garage decks in the vicinity of Danbury Hospital in Danbury, CT, were surveyed and found to be well within the mandated General Population/Uncontrolled limits for Maximum Permissible Exposure, as delineated in the Federal Communications Commission's Radio Frequency exposure rules published in 47 CFR 1.1307(b)(1)-(b)(3).

The highest spatially averaged % MPE measurement of all surveyed points based on the 1997 FCC standard for exposure to the general population is 4.38% MPE. This measurement was recorded at Location 4, on the top level of the Rizzo Parking Garage.

The current CSC database shows a recent filing for a proposed 700 MHz LTE add by T-Mobile (EM-T-Mobile-034-150402). At the time of the survey, the proposed 700MHz LTE antennas were installed and are assumed to be active.

Power density values were calculated for the proposed Sprint antenna configuration. These values were then added to the maximum measured % MPE value. The highest composite (measured + calculated) power density is 6.65% of the FCC General Population MPE limit. Please note that the maximum measured % MPE occurs 474' from the closest Sprint sector, whereas the calculated % MPE for Sprint's proposed antenna configuration is calculated at a closer point (the base of the hospital). Furthermore, the maximum measured value was recorded in line with the alpha sector of CT03XC350 at 155', which already has Sprint's Network Vision equipment deployed. The measured % MPE value at this measurement location already includes any contributions from the Network Vision equipment. These considerations ensure the composite (measured + calculated) power density reported above represents a worst-case value after Sprint's proposed modifications are complete.

The above analysis verifies that exposure levels in the areas surrounding the hospital; both currently and after the proposed modifications, are well below the Maximum Permissible Exposure levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01.

9. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The field measurements and calculated results were obtained with properly calibrated equipment using techniques and guidelines set forth in ANSI/IEEE Std. C95.3, ANSI/IEEE Std C95.1, and FCC OET Bulletin 65 Edition 97-01.

Report Prepared By: Evan Thibodeau
Evan Thibodeau
RF Engineer
C Squared Systems, LLC
August 21, 2015
Date

Reviewed/Approved By: Keith Vellante
Keith Vellante
RF Manager
C Squared Systems, LLC
August 21, 2015
Date

Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

ANSI C95.1-1982, American National Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300 kHz to 100 GHz, IEEE-SA Standards Board

IEEE Std C95.3-1991 (Reaff 1997), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave, IEEE-SA Standards Board

IEEE Std C95.7-2005, IEEE Recommended Practice for Radio Frequency Safety Programs, 3 kHz to 300 GHz, IEEE-SA Standards Board

Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure⁶

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

(B) Limits for General Population/Uncontrolled Exposure⁷

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz * Plane-wave equivalent power density

Table 7: FCC Limits for Maximum Permissible Exposure

⁶ Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

⁷ General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

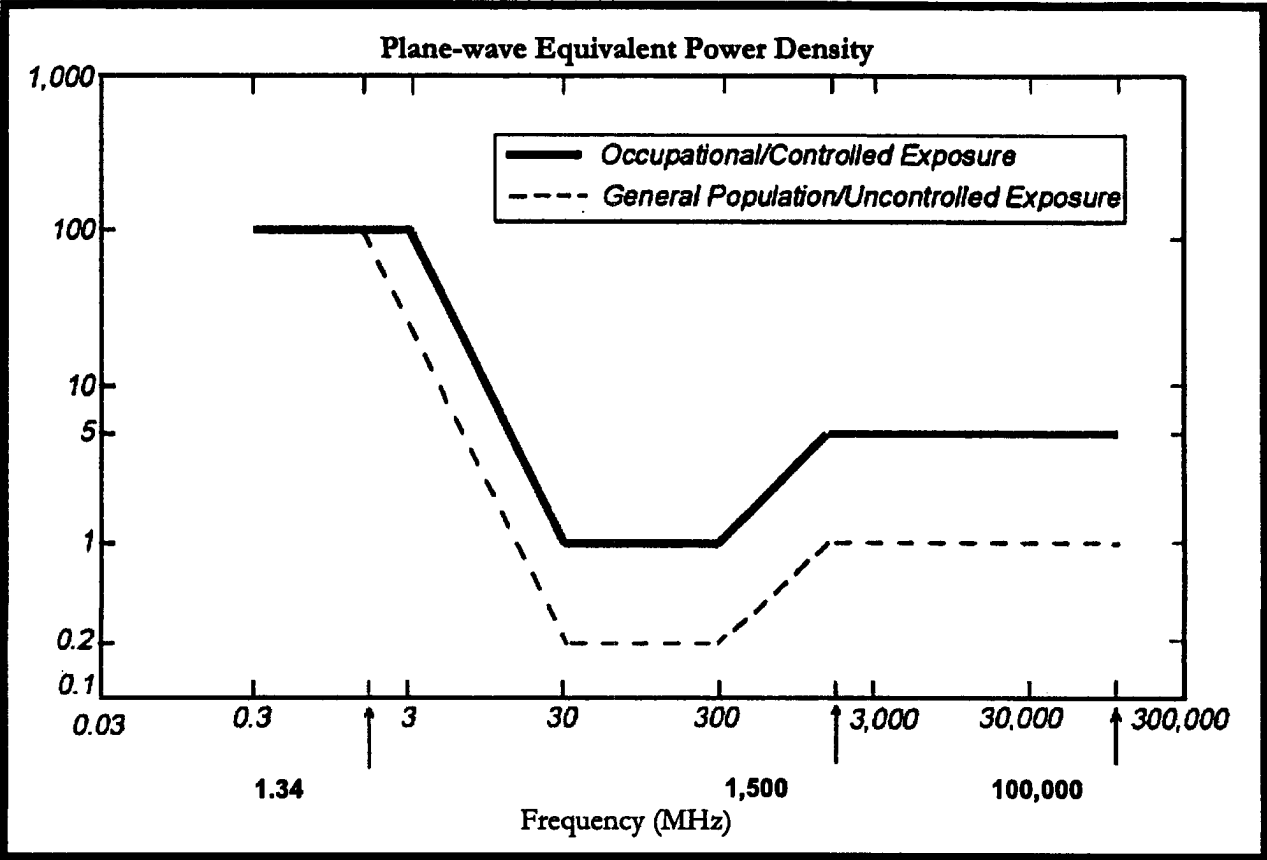
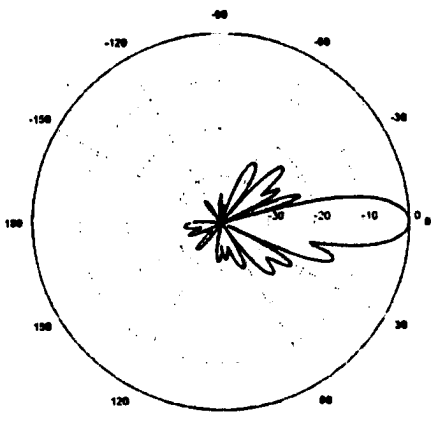
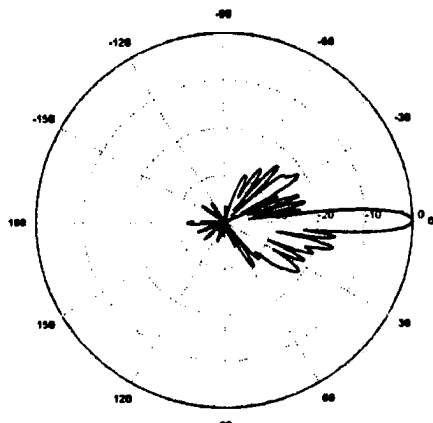


Figure 3: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: Sprint Antenna Model Data Sheets and Patterns

<p>865 MHz CDMA/LTE</p> <p>Manufacturer: RFS Model #: APXVSP18-C-A20 Frequency Band: 806-869 MHz Gain: 13.4 dBd Vertical Beamwidth: 11.5° Horizontal Beamwidth: 65° Polarization: Dual Pol ±45° Size L x W x D: 72.0" x 11.8" x 7.0"</p>	
<p>1900 MHz CDMA/EVDO/LTE</p> <p>Manufacturer: RFS Model #: APXVSP18-C-A20 Frequency Band: 1850-1995 MHz Gain: 15.9 dBd Vertical Beamwidth: 5.5° Horizontal Beamwidth: 65° Polarization: Dual Pol ±45° Size L x W x D: 72.0" x 11.8" x 7.0"</p>	
<p>2500 MHz LTE</p> <p>Manufacturer: RFS Model #: APXVTM14-C-I20 Frequency Band: 2490-2600 MHz Gain: 15.9 dBd Vertical Beamwidth: 5.0° Horizontal Beamwidth: 65° Polarization: ±45° Size L x W x D: 56.3" x 12.6" x 6.3"</p>	