



Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

April 19, 2018

Melanie A. Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification for Sprint Crown Site BU: 876353
Sprint Site ID: CT03XC340
352 S. Main Street, Newtown, Fairfield County, CT 06470
Latitude: 41° 21' 20.64" / Longitude: -73° 15' 47.57"

Dear Ms. Bachman:

Sprint currently maintains (3) antennas at the 148-foot level of the existing 150-foot monopole at 352 S. Main Street, Newtown, Connecticut 06470. The tower and property are owned by Crown Castle. Sprint intends to install (3) antennas, (1) line, and (6) RRHs.

This facility was approved by the Connecticut Siting Council on October 8, 1999. Subject tower was first approved by the Town of Newtown Zoning Board Docket Decision 96-38 on November 12, 1996. These approvals were given with conditions, namely that "a landscaping of evergreens, which must be properly maintained, shall be planted around the fenced area which surrounds the equipment."

Sprint's proposed installation complies with the above-referenced evergreen condition.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.S.C.A. § 16-50j-73, a copy of this letter is being sent to the Town of Newtown's First Selectman Daniel Rosenthal, the Town of Newtown's Planning & Zoning Commission Chair Robert Mulholland, well as to Crown Castle, the property and tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

Melanie A. Bachman

April 19, 2018

Page 2

4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Sprint respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Anne Marie Zsamba.

Sincerely,



Anne Marie Zsamba, Esq.

Real Estate Specialist

3 Corporate Park Drive, Suite 101, Clifton Park, NY 12065

(518) 350-3639

annemarie.zsamba.contractor@crowncastle.com

Attachments:

- Tab 1: Exhibit-1: Compound plan and elevation depicting the planned changes
- Tab 2: Exhibit-2: Structural Modification Report
- Tab 3: Exhibit-3: General Power Density Table Report (RF Emissions Analysis Report)

cc: First Selectman Daniel Rosenthal
Town of Newtown
3 Primrose Street
Newtown, CT 06470

Planning & Zoning Commission
Robert Mulholland
Newtown Municipal Center
3 Primrose Street
Newtown, CT 06470

Crown Castle USA, Inc.

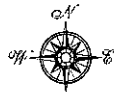
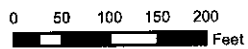
Town of Newtown, Connecticut - Assessment Parcel Map

Parcel: 47-6-2

Address: 352 SOUTH MAIN STREET



Approximate Scale:



Disclaimer: This map is for informational purposes only.
All information is subject to verification by any user.
The Town of Newtown and its mapping contractors
assume no legal responsibility for the
information contained herein.

Map Produced Oct 2016

BU 876353



Property Information

Property Location	352 SOUTH MAIN STREET
Owner	KNOWLTON ASSOCIATES LLC
Co-Owner	C/O CROWN CASTLE
Mailing Address	PMB 331 MCMURRAY PA 15317
Land Use	4310 CELL SITE
Land Class	I
Zoning Code	M-5
Census Tract	
Sub Lot	
Neighborhood	
Acreage	0
Utilities	Well,Septic
Lot Setting/Desc	
Survey Map	
TC Survey Numbers	

Photo



Sketch

Primary Construction Details

Year Built	
Stories	
Building Style	
Building Use	
Building Condition	
Floors	
Total Rooms	

Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	
Roof Cover	

Exterior Walls	
Interior Walls	
Heating Type	
Heating Fuel	
AC Type	
Gross Bldg Area	
Total Living Area	



Town of Newtown, CT

Property Listing Report

Map Block Lot **47-6-2-C**

Account **00662100C**

Valuation Summary (Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings		
Extras		
Outbuildings		
Land		
Total		

Outbuilding and Extra Items

Type	Description
Fence	154 L.F.
Fence	960 L.F.
Fence	160 L.F.
Paving	10000 S.F.
Patio	120 S.F.
Cell Tower	1 Units

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area		0

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
KNOWLTON ASSOCIATES LLC	935/ 12	10/8/2008	



TOWN OF NEWTOWN
ZONING BOARD OF APPEALS

DOCKET DECISION 96-38

Application of Sprint Spectrum, L. P. for a variance of Section 4.18 of the Zoning Regulations. The property is located at 352 South Main Street in the Town of Newtown in a M-5 Zone.

Having considered the documentation and testimony presented at a public hearing held on November 6, 1996, the Board voted to APPROVE the application as presented with the following stipulation:

A landscaping screen of evergreens, which must be properly maintained, shall be planted around the fenced area which surrounds the equipment.

The Board therefore APPROVES the variance with the above-stated stipulation.

The Board orders further that the effective date of this decision shall be November 15, 1996, and that a certified copy hereof shall be filed in the office of the Town Clerk of the Town of Newtown and that public notice of such filing shall be published in the November 15, 1996 issue of the Newtown Bee.

ZONING BOARD OF APPEALS OF THE TOWN OF NEWTOWN

Charles E. Annett III
Charles E. Annett, III, Chairman

I hereby certify that the adoption of the foregoing decision is recorded in the minutes of the Zoning Board of Appeals of the Town of Newtown in the form of a resolution, the vote of which was as follows:

Charles E. Annett....."Yes" Sally J. O'Neil....."Yes"
Richard H. Kessler....."Yes" Alan Clavette....."Yes"
Timothy Cronin....."Yes"

Richard H. Kessler
Richard H. Kessler, Secretary

November 12, 1996

Newtown, CT

TOWN HALL SOUTH • THREE MAIN STREET • NEWTOWN, CONNECTICUT 06470
TEL. (203) 270-4260 • FAX (203) 270-1528



TOWN OF NEWTOWN
ZONING BOARD OF APPEALS

DOCKET DECISION 96-39

Application of Sprint Spectrum, L. P. for a special permit as required by Section 4.18.511 of the Zoning Regulations. The property is located at 352 South Main Street in the Town of Newtown in a M-5 Zone.

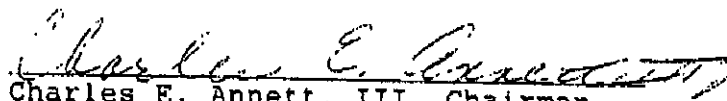
Having considered the documentation and testimony presented at a public hearing held on November 6, 1996, the Board voted to APPROVE the application as presented with the following stipulation:

A landscaping screen of evergreens, which must be properly maintained, shall be planted around the fenced area which surrounds the equipment.

The Board therefore APPROVES the special permit with the above-stated stipulation.

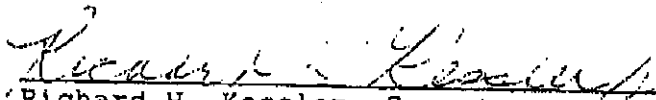
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Richard H. Kessler, Secretary

November 12, 1996

Newtown, CT

TOWN HALL SOUTH • THREE MAIN STREET • NEWTOWN, CONNECTICUT 06470
TEL. (203) 270-4260 • FAX (203) 270-1528

NOTICE OF GRANT OF VARIANCE
SPECIAL EXCEPTION, OR SPECIAL PERMIT

7381

Pursuant to Chapter 124 (PA-75-317) of the General Statutes of the State of Connecticut, notice is hereby given that on November 6, 1996 the Zoning Board of Appeals of the Town of Newtown, Connecticut, granted or granted conditionally a variance, special exception, special permit for property located at 352 South Main Street in the Town of Newtown

DESCRIPTION OF PROPERTY (lot size) 8.73 acres

Rec'd. for Record 12-13-1996
Town Clerk of Newtown
9:20am
Sybilie Tuttle Simon

PROPERTY OWNED BY Maureen A. Julian

NATURE OF VARIANCE, SPECIAL EXCEPTION, SPECIAL PERMIT

Chapter _____ Section 4-18-511 ; Chapter _____ Section _____
Chapter _____ Section _____ ; Chapter _____ Section _____
Chapter _____ Section _____ ; Chapter _____ Section _____

ZONING REGULATIONS - TOWN OF NEWTOWN, CONNECTICUT

USE PERMITTED Construction, operation and maintenance of a monopole structure over thirty (30) feet in height.

Dated and Certified by the Zoning Board of Appeals of the Town of Newtown this 13th day of December, 1996

By *[Signature]* Chairman Secretary Clerk X

NOTICE OF GRANT OF VARIANCE

7382

SPECIAL EXCEPTION, OR SPECIAL PERMIT

Pursuant to Chapter 124 (PA-75-317) of the General Statutes of the State of Connecticut, notice is hereby given that on November 6, 1996 the Zoning Board of Appeals of the Town of Newtown, Connecticut, granted or granted conditionally a variance, special exception, special permit for property located at 352 South Main Street in the Town of Newtown

DESCRIPTION OF PROPERTY (lot size) 8.73

Rec'd. for Record 12-13-1996
Town Clerk of Newtown
9:21am
Lyndie Rusti Linn

PROPERTY OWNED BY Maureen A. Julian

NATURE OF VARIANCE, SPECIAL EXCEPTION, SPECIAL PERMIT

Chapter _____ Section 4.18 _____ ; Chapter _____ Section _____
Chapter _____ Section _____ ; Chapter _____ Section _____
Chapter _____ Section _____ ; Chapter _____ Section _____

ZONING REGULATIONS - TOWN OF NEWTOWN, CONNECTICUT

USE PERMITTED Installation operation and maintenance of a monopole for the operation of communication antenna in addition to the principal industrial use on the site, concrete operations.

Dated and Certified by the Zoning Board of Appeals of the Town of Newtown this 13th day of December, 1996

By [Signature] Chairman Secretary Clerk X



Attorneys at Law

777 Summer Street
P.O. Box 15859
Stamford, Connecticut 06901-0859

(203) 327-2000
Facsimile (203) 353-3392

MICHAEL J. CACACE*
MARK P. SANTAGATA
PAUL T. TUSCH
EDWARD F. NEMCEK*
ALICE ANN FITZPATRICK
RONALD E. KOWALSKI, II
PIERRETTE A. NEWMAN
RUSSELL A. GREEN*
AMINA AHMAD

LEGAL ASSISTANTS
SONJA WALTON
JANE E. BARUCCI
CAROLINE A. TOMAC
KELLEY R. ADAMS

*ALSO ADMITTED IN NEW YORK

November 18, 1996

Larry Woods
Sprint Spectrum L.P.
9 Barnes Industrial Road
Wallingford, CT 06492

Re: Sprint Spectrum/352 South Main Street, Newtown, CT

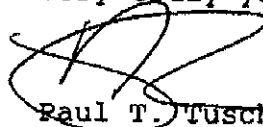
Dear Larry:

Enclosed you will find copies of the decisions granting unanimous approval of our applications for a variance and a special permit in the above-referenced site. As you can see, the board's concern about the screening of the fenced area has been made into a condition of the approval. SSLP must ensure that the fenced area surrounding the equipment is screened by evergreens which are to be properly maintained.

Note that there is a fifteen day appeal period. After the appeal period runs on November 30, 1996, a building permit can be issued.

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

Very truly yours,



Paul T. Tusch

PTT/clg
Enclosures
cc: Stephen Howard
Neil McAuliffe
Russell A. Green



2.5 EQUIPMENT DEPLOYMENT

SITE NUMBER:
CT03XC340

SITE NAME:
352 S. MAIN STREET
352 S. MAIN ST
NEWTOWN, CT 06470

CROWN ID#: 876363
CROWN SITE NAME: 352 S. MAIN ST
NEWTOWN, CT



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SUBMITTALS	
PROJECT NO:	888-CT03XC340
NO.	DESCRIPTION
0	FOR COMMENT
1	FOR CONSTRUCTION
2	FOR REVISION DESIGN

DATE: 03/14/2010



DATE RECEIVED BY: [Signature]

DATE: 03/14/2010

STATE OF CONNECTICUT PROFESSIONAL ENGINEER

NO. 25408

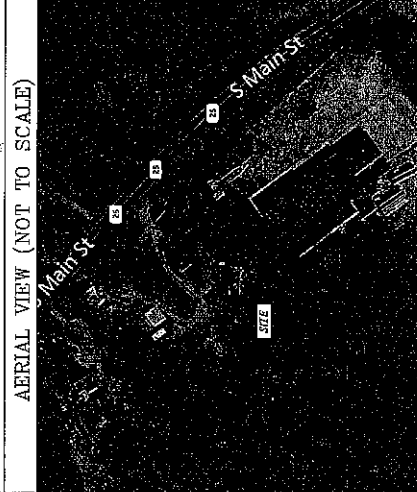
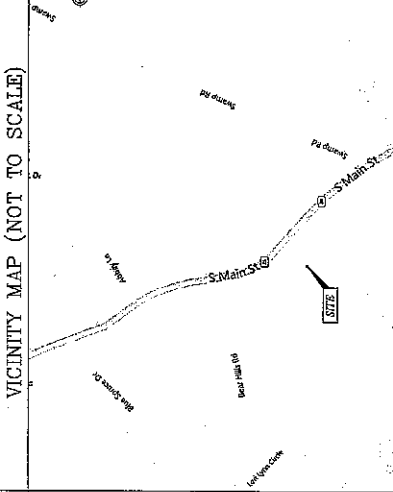
NAME: [Name]

352 S. MAIN STREET
NEWTOWN, CT 06470

SHEET TITLE: TITLE SHEET

SHEET NO: T-1

SHT. NO.	TITLE SHEET	SHEET DESCRIPTION
T-1	TITLE SHEET	TITLE SHEET
GP-1	GENERAL NOTES	GENERAL NOTES
SP-2	CHEMICAL NOTES	CHEMICAL NOTES
A-1	SITE PLAN	SITE PLAN
A-2	ELEVATION	ELEVATION
A-3	ENLARGED EQUIPMENT LAYOUT PLANS	ENLARGED EQUIPMENT LAYOUT PLANS
A-4	ANTENNA LAYOUT PLANS	ANTENNA LAYOUT PLANS
A-5	BAR WELDING DIAGRAM	BAR WELDING DIAGRAM
A-6	CABLE DETAILS	CABLE DETAILS
S-1	EQUIPMENT DETAILS	EQUIPMENT DETAILS
S-2	EQUIPMENT SCHEMATIC DETAILS	EQUIPMENT SCHEMATIC DETAILS
E-1	ELECTRICAL & GROUNDING PLANS	ELECTRICAL & GROUNDING PLANS
B-2	GROUNDING DETAILS & NOTES	GROUNDING DETAILS & NOTES



SHEET INFORMATION	
LANDOWNER:	CROWN CASTLE USA 200 SOUTH ST COLUMBIANA, PA
LOCAL POWER COMPANY:	CONNECTICUT LIGHT AND POWER CONNECTICUT CUSTOMER SERVICE (800) 288-3000
APPLICANT:	SPRINT SPRINT SERVICE CENTER OVERLAND PARK, KANSAS 66201
ENGINEER:	JAMES QUINN (845) 687-6656 EXT. 2833 jquinn@tectonicengineering.com
SPRINT C/O:	HEATHER GASTMAYER heather.gastmayer@sprint.com
CROWN C/O:	JOE PASQUOLA joe.pasquola@crowncc.com
DATE:	03/14/2010

GENERAL NOTES

1. THIS IS AN UNLICENSED TELECOMMUNICATIONS FACILITY, AND NOT FOR HUMAN HABITATION. HUMAN ACCESS REQUIREMENTS ARE NOT REQUIRED. THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATORY REQUIREMENTS.

2. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS OF THE FACILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS OF THE FACILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS OF THE FACILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS OF THE FACILITY.

3. DEVELOPMENT AND USE OF THIS SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.

4. 2008 STATE OF CONNECTICUT BUILDING CODE
ANSI/ASCE 7-05
NATIONAL ELECTRICAL CODE, LATEST EDITION.

PROJECT DESCRIPTION

1. (1) NEW 2.5 EQUIPMENT RACK MOUNTED CABINET

2. (4) NEW COMPACTIVE 174510-2R ANTENNAS

3. (8) NEW TD-REPEAT-45 RHL

4. (8) NEW 2400-800 RHL

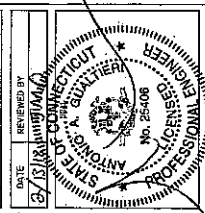
5. (8) NEW 1-1/4" BURRED CABLE





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SUBMITTALS	
PROJECT NO.	DESCRIPTION
0887-070302340	FOR COMMENT
08/06/16/16	FOR CONSTRUCTION
1	FOR CONSTRUCTION
2	FOR REVIEW DESIGN



DATE REVIEWED BY
 DATE
 382 S. MAIN STREET
 NEWTOWN, CT 06470
 SHEET TITLE:
 GENERAL NOTES
 SHEET NO:
 SP-2

- K. SEED, FERTILIZER AND STRAW COVER SHALL BE APPLIED TO ALL OTHER DISTURBED AREAS AND DITCHES, DRAINAGE, SWALES, NOT OTHERWISE SHOWN.
- L. UNDER NO CIRCUMSTANCES SHALL DITCHES, SWALES OR PERMANENT STANDING WATER IMMEDIATELY ADJACENT TO SITE BE CONSIDERED AS PART OF THE CONSTRUCTION. CONTRACT WITH THIS OFFICE TO REMOVE ANY SUCH AREAS.
- M. IF A DITCH LIES WITHIN SCOPE GREATER THAN TEN FEET, IT SHALL BE RELOCATED TO THE PERMANENT RIGHT-OF-WAY. THE DITCH SHALL BE RELOCATED TO THE PERMANENT RIGHT-OF-WAY. THE DITCH SHALL BE RELOCATED TO THE PERMANENT RIGHT-OF-WAY. THE DITCH SHALL BE RELOCATED TO THE PERMANENT RIGHT-OF-WAY.
- N. IF A DITCH LIES WITHIN SCOPE GREATER THAN TEN FEET, IT SHALL BE RELOCATED TO THE PERMANENT RIGHT-OF-WAY. THE DITCH SHALL BE RELOCATED TO THE PERMANENT RIGHT-OF-WAY. THE DITCH SHALL BE RELOCATED TO THE PERMANENT RIGHT-OF-WAY.
- O. SOIL STABILIZER SHALL BE APPLIED TO SURFACE AREAS TO BE EXCAVATED AND TO LOOSEN THE SOIL. SOIL STABILIZER SHALL BE APPLIED TO SURFACE AREAS TO BE EXCAVATED AND TO LOOSEN THE SOIL.
- P. SOIL STABILIZER SHALL BE APPLIED TO SURFACE AREAS TO BE EXCAVATED AND TO LOOSEN THE SOIL. SOIL STABILIZER SHALL BE APPLIED TO SURFACE AREAS TO BE EXCAVATED AND TO LOOSEN THE SOIL.
- Q. SOIL STABILIZER SHALL BE APPLIED TO SURFACE AREAS TO BE EXCAVATED AND TO LOOSEN THE SOIL. SOIL STABILIZER SHALL BE APPLIED TO SURFACE AREAS TO BE EXCAVATED AND TO LOOSEN THE SOIL.

- 3.04 FIELD QUALITY CONTROL
 - A. CONSTRUCTION SHALL BE 0-1% PER SITE WORK AND BE TO A MAXIMUM DENSITY LIMIT SET BY AREAS OF SETTLEMENT WILL BE EXCAVATED AND RETULLED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.
 - B. THE COMPACTION TEST RESULTS SHALL BE AVAILABLE PRIOR TO THE CONCRETE POUR.
- 3.05 EQUIPMENT
 - A. CONSTRUCTION SHALL BE ACCOMPLISHED BY MECHANICAL MEANS. ALL WORK SHALL BE COMPLETED BY 5:00 PM. ALL WORK SHALL BE COMPLETED BY 5:00 PM.
 - B. POWER-DRIVEN, HAND HELD TOOLS SHALL BE USED FOR ALL EXCAVATION, GRADING, AND OTHER NECESSARY WORK. ALL TOOLS SHALL BE USED FOR ALL EXCAVATION, GRADING, AND OTHER NECESSARY WORK.
 - C. ALL EXCAVATION SHALL BE TO A MINIMUM OF 6" BELOW ORIGINAL GROUND LEVEL. ALL EXCAVATION SHALL BE TO A MINIMUM OF 6" BELOW ORIGINAL GROUND LEVEL.
 - D. PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL TO A MINIMUM OF 1" BELOW ORIGINAL GROUND LEVEL. PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL TO A MINIMUM OF 1" BELOW ORIGINAL GROUND LEVEL.
 - E. WHEN IMPROVING AN EXISTING ACCESS ROAD, GRADE THE EXISTING ROAD TO REMOVE ANY STANDING WATER AND SMOOTH THE SURFACE USING FINE PLASTER FILL OR SPOIL.

- 3.03 INSTALLATION
 - A. THE CITY AND TOWN BOARD AREAL SHALL BE AT THE SUB-BASE COURSE ELEVATION PRIOR TO FORMING FOUNDATIONS. GRADE OR EXCAVATION SHALL BE TO A MINIMUM OF 12" BELOW THE SUB-BASE COURSE ELEVATION. THE RESULTING GRADE SHALL CORRESPOND WITH THE FINISHED GRADES OR SLICES INDICATED.
 - B. THE ACCESS ROAD SHALL BE RELOCATED TO BASE COURSE ELEVATION PRIOR TO FOUNDATION CONSTRUCTION.
 - C. DO NOT CREATE DEPRESSIONS WHERE WATER MAY POND.
 - D. THE CONTRACT INCLUDES ALL NECESSARY GRADING, BANKING, DITCHING AND COMPLETE SURFACE COURSE FOR ACCESS ROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.
 - E. WHEN IMPROVING AN EXISTING ACCESS ROAD, GRADE THE EXISTING ROAD TO REMOVE ANY STANDING WATER AND SMOOTH THE SURFACE USING FINE PLASTER FILL OR SPOIL.
 - F. GRADE FILL OR SPOIL TO A MINIMUM OF 12" BELOW ORIGINAL GROUND LEVEL.
 - G. THE FINISHED GRADE INCLUDING THE SURFACE COURSE SHALL EXTEND A MINIMUM OF 12" BEYOND THE SITE FENCE AND SHALL COVER THE AREA AS INDICATED.
 - H. REPAIR SHALL BE APPLIED TO THE SIDE SLOPES OF ALL FENCED AREAS, PARKING AREAS AND TO ALL OTHER SLOPES GREATER THAN 2:1.
 - I. REPAIR SHALL BE APPLIED TO THE SIDE SLOPES OF ALL FENCED AREAS, PARKING AREAS AND TO ALL OTHER SLOPES GREATER THAN 2:1.
 - J. REPAIR SHALL BE APPLIED TO THE SIDE SLOPES OF ALL FENCED AREAS, PARKING AREAS AND TO ALL OTHER SLOPES GREATER THAN 2:1.

- 1.01 GENERAL
 - A. WORK INCLUDES: WORK TO SURVEY AND SITE PLAN FOR WORK INCLUDED.
 - B. RELATED WORK
 - A. CONSTRUCTION OF EQUIPMENT FOUNDATIONS
 - B. INSTALLATION OF ANTENNA SYSTEM
- PART 2 PRODUCTS
 - 2.01 MATERIALS
 - A. ROAD AND SITE MATERIALS: FILL MATERIAL SHALL BE AS SPECIFIED IN LOCAL ORDINANCES AND SHALL BE APPROVED BY THE LOCAL DEPARTMENT OF HIGHWAY AND PUBLIC TRANSPORTATION. FILL MATERIAL SHALL BE AS SPECIFIED IN LOCAL ORDINANCES AND SHALL BE APPROVED BY THE LOCAL DEPARTMENT OF HIGHWAY AND PUBLIC TRANSPORTATION.
 - B. SOIL STABILIZER SHALL BE EPA REGISTERED OF LIQUID COMPOSITION AND OF PRE-EMERGENCE DESIGN.
 - C. SOIL STABILIZER FABRIC SHALL BE UNWET OR EQUAL - 600Z AT ACCESS ROAD AND COMPOUND.
 - D. GRAVEL FILL, WELL GRADED, HARD, DURABLE, NATURAL SAND OR EQUIVALENT SHALL BE USED FOR ALL EXCAVATION, GRADING, AND OTHER NECESSARY WORK. GRAVEL FILL, WELL GRADED, HARD, DURABLE, NATURAL SAND OR EQUIVALENT SHALL BE USED FOR ALL EXCAVATION, GRADING, AND OTHER NECESSARY WORK.

SYMBOLS	ABBREVIATIONS
---	GROUND WIRE
---	ELECTRIC
---	TELEPHONE
---	OVERHEAD WIRE
---	PROPERTY LINE
---	CHAIN LINK FENCE
A-1	ANTENNA MARK
(E)	EXISTING
(P)	PROPOSED DETAIL
REF	REFERENCE
---	SURFACE ELEVATION

DIVISION 13000 - SPECIAL CONSTRUCTION ANTENNA INSTALLATION

- 1.01 GENERAL
 - A. WORKS AND HYBRID CABLES ARE FURNISHED BY CLIENTS' CONTRACTORS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.
 - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND CLIENT'S REPRESENTATIVE SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL OR ALUMINUM BRACKET AND PROVIDE PRINTOUT OF THAT RESULT.
 - D. INSTALL HYBRID CABLES AND TERMINATIONS BETWEEN ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
 - E. ANTENNA AND HYBRID CABLE GROUNDING:
 - ALL EXTERIOR WIRE BEING BOUND WIRE MUST HAVE GREEN CONNECTOR/SURFACE WEATHERPROOFING KIT TYPE 3224213 OR EQUIVALENT.
 - ALL HYBRID CABLE GROUNDING KITS ARE TO BE INSTALLED ON STEEL WIRE AS SHOWN IN THE FOLLOWING WORK AS SHOWN UNDER CONSTRUCTION DOCUMENTS, BUT COORDINATE WITH OTHER TRADES PRIOR TO BID.

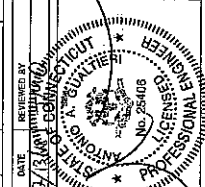
- 1.03 REQUIREMENTS OF REGULATORY AGENCIES
 - A. FINISH ALL USED EQUIPMENT WHERE SUCH LABEL IS MARKED APPLICABLE.
 - B. INSTALL ANTENNA, ANTENNA CABLES, GROUNDING SYSTEM, AT PROJECT LOCATION AND RECOMMENDATIONS OF STATE AND LOCAL REGULATORY AGENCIES. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE REGULATORY AGENCIES.
 - C. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE REGULATORY AGENCIES.
 - D. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE REGULATORY AGENCIES.
 - E. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE REGULATORY AGENCIES.

- 3.03 INSTALLATION
 - A. THE CITY AND TOWN BOARD AREAL SHALL BE AT THE SUB-BASE COURSE ELEVATION PRIOR TO FORMING FOUNDATIONS. GRADE OR EXCAVATION SHALL BE TO A MINIMUM OF 12" BELOW THE SUB-BASE COURSE ELEVATION. THE RESULTING GRADE SHALL CORRESPOND WITH THE FINISHED GRADES OR SLICES INDICATED.
 - B. THE ACCESS ROAD SHALL BE RELOCATED TO BASE COURSE ELEVATION PRIOR TO FOUNDATION CONSTRUCTION.
 - C. DO NOT CREATE DEPRESSIONS WHERE WATER MAY POND.
 - D. THE CONTRACT INCLUDES ALL NECESSARY GRADING, BANKING, DITCHING AND COMPLETE SURFACE COURSE FOR ACCESS ROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.
 - E. WHEN IMPROVING AN EXISTING ACCESS ROAD, GRADE THE EXISTING ROAD TO REMOVE ANY STANDING WATER AND SMOOTH THE SURFACE USING FINE PLASTER FILL OR SPOIL.
 - F. GRADE FILL OR SPOIL TO A MINIMUM OF 12" BELOW ORIGINAL GROUND LEVEL.
 - G. THE FINISHED GRADE INCLUDING THE SURFACE COURSE SHALL EXTEND A MINIMUM OF 12" BEYOND THE SITE FENCE AND SHALL COVER THE AREA AS INDICATED.
 - H. REPAIR SHALL BE APPLIED TO THE SIDE SLOPES OF ALL FENCED AREAS, PARKING AREAS AND TO ALL OTHER SLOPES GREATER THAN 2:1.
 - I. REPAIR SHALL BE APPLIED TO THE SIDE SLOPES OF ALL FENCED AREAS, PARKING AREAS AND TO ALL OTHER SLOPES GREATER THAN 2:1.
 - J. REPAIR SHALL BE APPLIED TO THE SIDE SLOPES OF ALL FENCED AREAS, PARKING AREAS AND TO ALL OTHER SLOPES GREATER THAN 2:1.

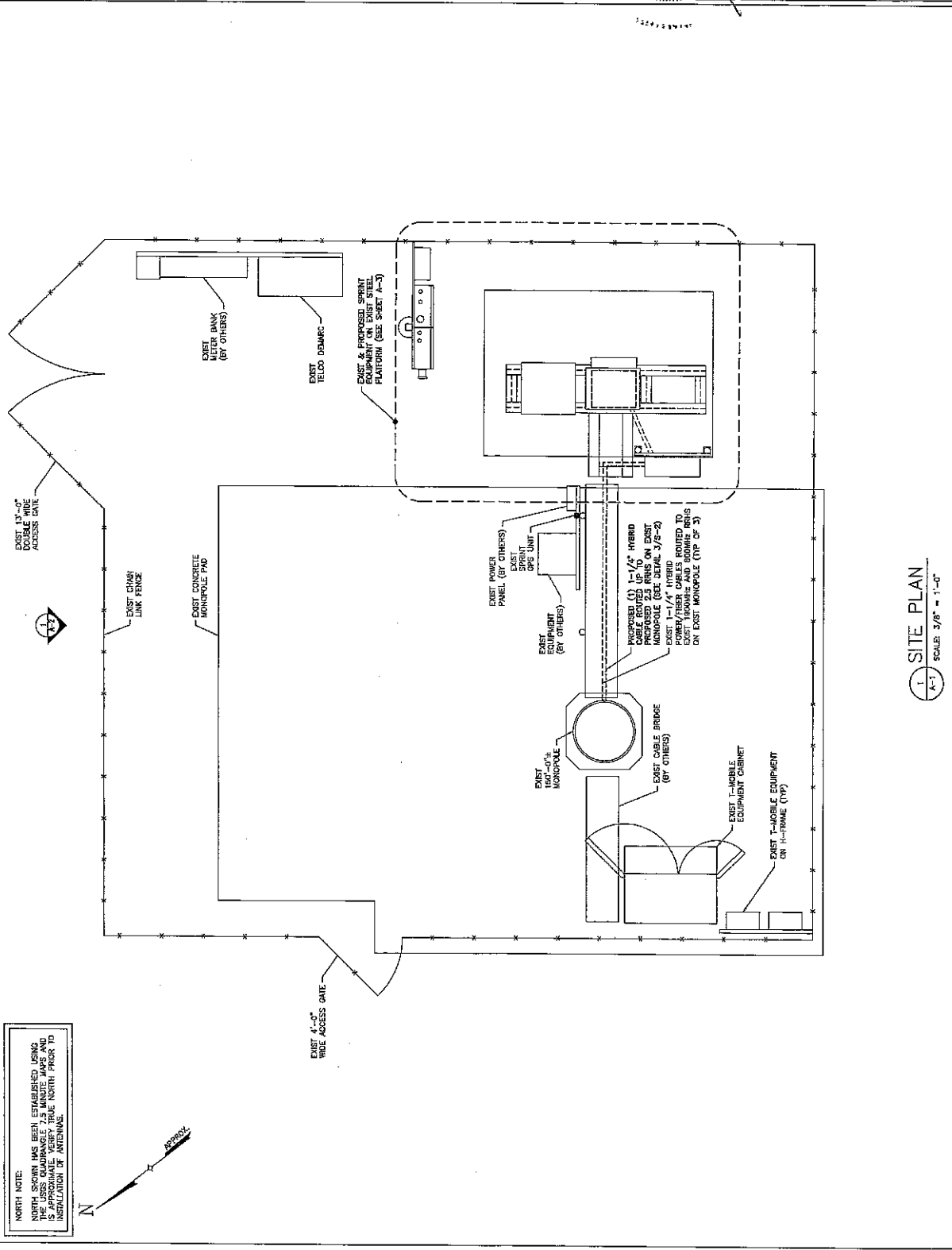


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SUBMITTALS			
NO.	DATE	DESCRIPTION	BY
0	06/16/14	FOR COMMENT	DC
1	8/24/14	FOR CONSTRUCTION	DC
2	1/27/15	PER REVISED DESIGN	JT



DATE: 1/27/15
 DESIGNED BY: JT
 CHECKED BY: JT
 PROJECT NO.: 8883-CT030340
 SITE NUMBER: CT03030340
 SITE NAME: 362 S. MAIN STREET
 SITE ADDRESS: 362 S. MAIN STREET, NEWTOWN, CT 06470
 SHEET TITLE: SITE PLAN
 SHEET NO.: A-1

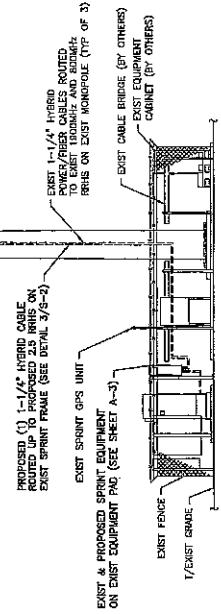
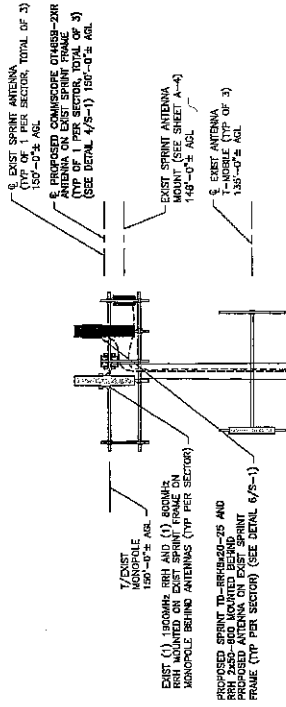
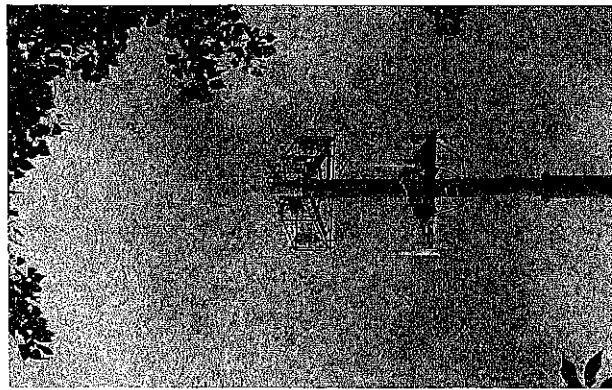


NORTH NOTE:
 NORTH SHOWN HAS BEEN ESTABLISHED USING THE LESS QUADRANGLE 7.5 MINUTE MAPS AND IS APPROXIMATE. VERIFY TRUE NORTH PRIOR TO INSTALLATION BY AIRSOUND.

1 SITE PLAN
 SCALE: 3/8" = 1'-0"

THE PROPOSED INSTALLATION, EXISTING MOUNTS AND EXISTING MONOPOLE SHALL BE ANALYZED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT (TO BE COORDINATED BY OTHERS).

THE EXISTING MOUNT HAS BEEN ANALYZED BY TECTONIC ENGINEERING AND FOUND TO BE ADEQUATE TO SUPPORT THE PROPOSED SPRINT UPGRADE AS STATED IN THE STRUCTURAL ANALYSIS EVALUATION LETTER DATED 12/08/17, REVISION 1.



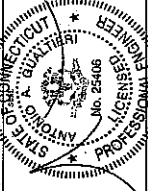
1 ELEVATION
A-2 SCALE: 3/16" = 1'-0"



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NO.	DATE	DESCRIPTION	BY
1	05/06/14	FOR COMMENT	DC
2	11/29/18	FOR CONSTRUCTION DC	JT
		FOR REVISED DESIGN	JT

DATE: 3/18/18
REVIEWED BY: [Signature]

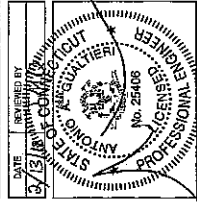


PROJECT NO: 8867-CT03X2C340
SITE NUMBER: CT03X2C340
SITE NAME: 362 S. MAIN STREET
SITE ADDRESS: 362 S. MAIN STREET, NEWTOWN, CT 06470
SHEET TITLE: ELEVATION
SHEET NO.: A-2

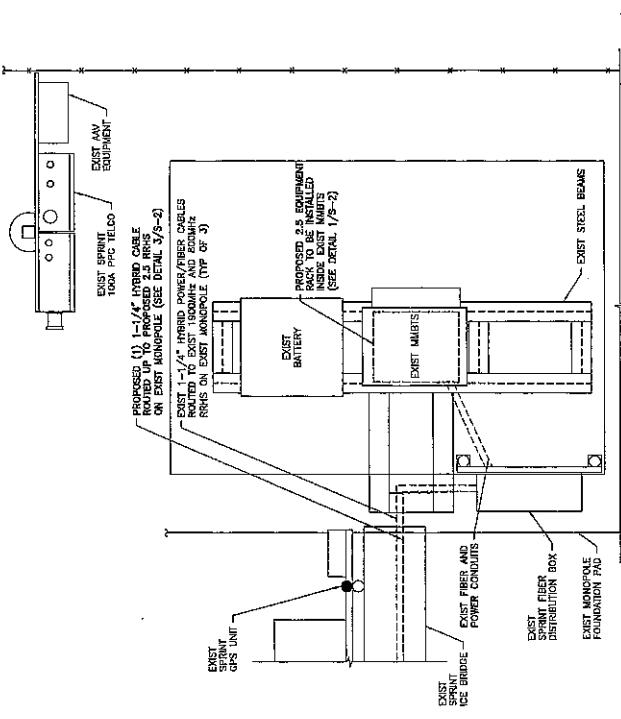


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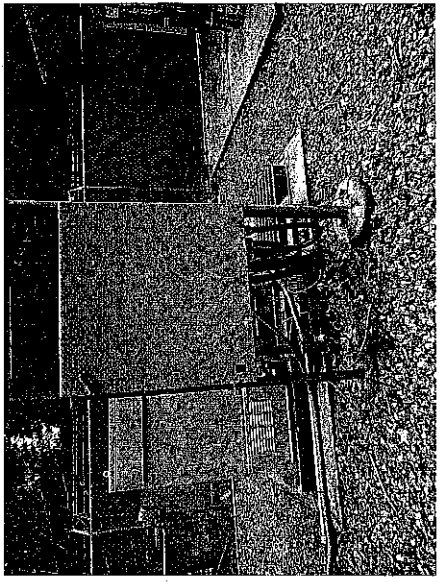
NO.	DATE	DESCRIPTION	BY
1	8/26/14	FOR CONSTRUCTION	DC
2	1/29/18	FOR REVISION DESIGN	JT



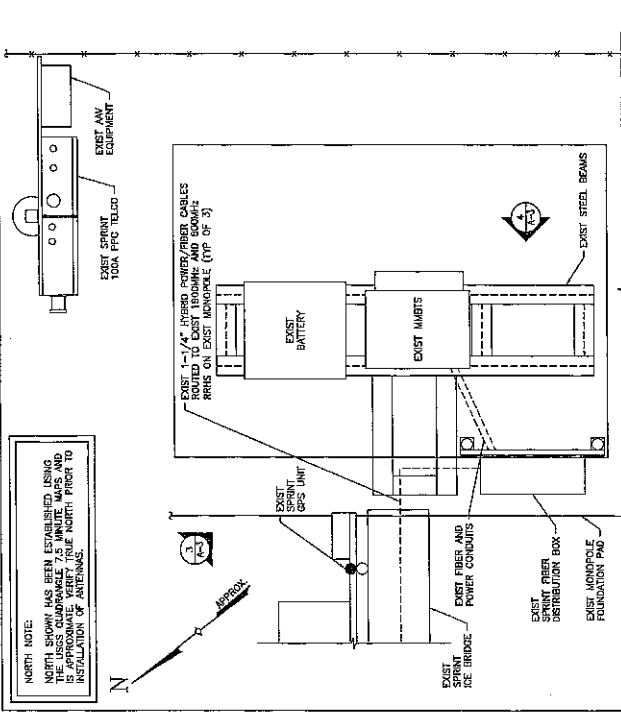
DATE: 3/13/18
 REVIEWED BY: [Signature]
 PROJECT NO: 8880 CT03XC340
 SITE NUMBER: CT03XC340
 SITE NAME: 888 S. MAIN STREET
 SITE ADDRESS: 888 S. MAIN STREET, NEWTON, CT 06470
 SHEET TITLE: ENLARGED EQUIPMENT LAYOUT PLANS
 SHEET NO: A-3



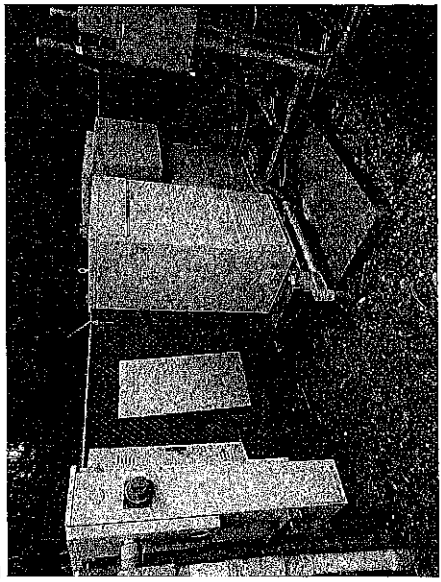
2 ENLARGED EQUIP. LAYOUT PLAN (FINAL)
 SCALE: 3/4" = 1'-0"



4 EXIST FIBER DISTRIBUTION BOX
 SCALE: NTS

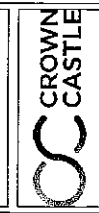


1 ENLARGED EQUIP. LAYOUT PLAN (EXIST)
 SCALE: 3/4" = 1'-0"



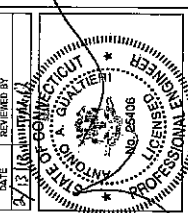
3 EXIST EQUIPMENT PAD
 SCALE: NTS

NORTH NOTE:
 NORTH SHOWN HAS BEEN ESTABLISHED USING SURVEY DATA AND IS APPROXIMATE. VERIFY TRUE NORTH PRIOR TO INSTALLATION OF ANTENNAS.



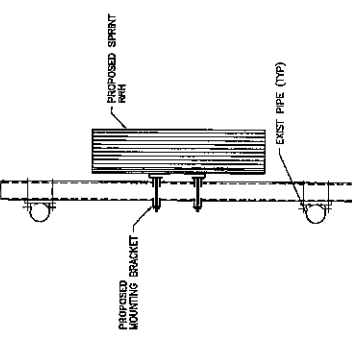
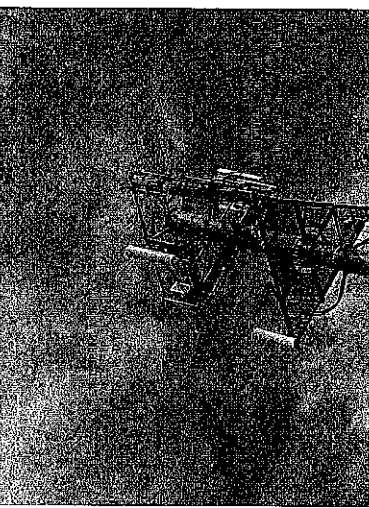
FOR INFORMATION OF THE DESIGNER AND CONTRACTOR, THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE EXISTING STRUCTURE AND FOUND IT TO BE IN GOOD CONDITION. THE DESIGNER HAS NOT CONDUCTED A STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE AND DOES NOT GUARANTEE THE STRUCTURE'S CAPACITY TO SUPPORT THE PROPOSED ANTENNA MOUNTING SYSTEM. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE EXISTING STRUCTURE AND FOUND IT TO BE IN GOOD CONDITION. THE DESIGNER HAS NOT CONDUCTED A STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE AND DOES NOT GUARANTEE THE STRUCTURE'S CAPACITY TO SUPPORT THE PROPOSED ANTENNA MOUNTING SYSTEM.

SUBMITTALS	
NO.	DESCRIPTION
1.	1. 1/2" DIA. FOR CONSTRUCTION
2.	2. 1/2" DIA. PER REVISED DESIGN



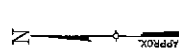
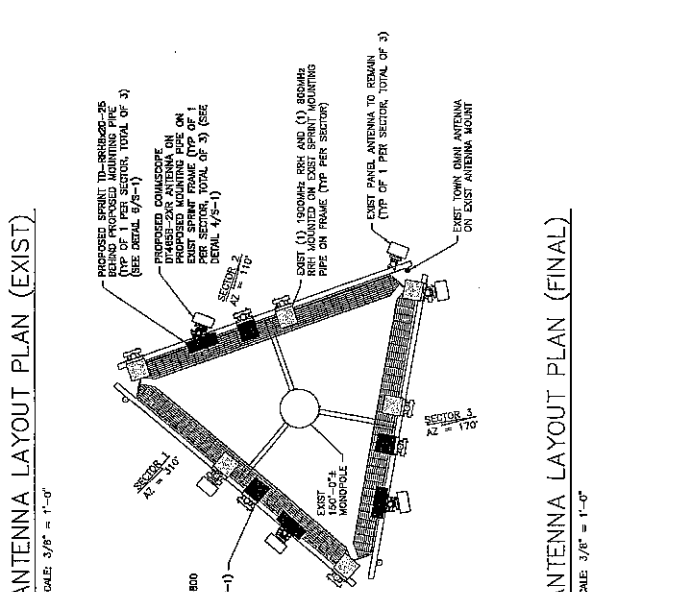
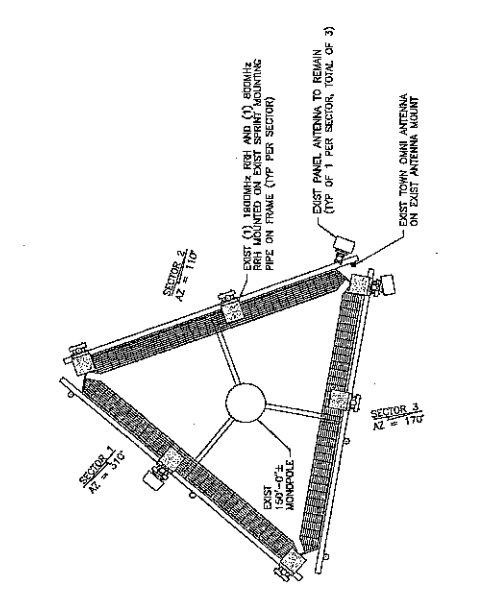
DATE: 3/13 (REVISION 1)
 REVIEWED BY: [Signature]
 PROJECT NO: 080210303249
 INC. DATE: [Blank]
 G. 06/16/04 FOR COMMENT
 DC. [Blank]
 1. 1/2" DIA. FOR CONSTRUCTION
 2. 1/2" DIA. PER REVISED DESIGN

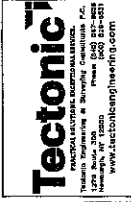
THE EXISTING MOUNT HAS BEEN ANALYZED BY TECTONIC ENGINEERING AND FOUND TO BE ADEQUATE TO SUPPORT THE PROPOSED SPRINT UPGRADE AS STATED IN THE STRUCTURAL ANALYSIS EVALUATION LETTER DATED 12/08/17, REVISION 1.



3 RRH MOUNTING DETAIL
 SCALE: 1/2" = 1'-0"

Status	Exist	Proposed
Antenna Manufacturer	RFS-CEL WAVE	COMWISCOPE
Antenna Model Number	APXVSP14C	D1065B-2XR
Number of Antennas	3	3
Antenna Azimuth	150°	150°
Antenna RAD Center	310/110/170	310/110/170
Antenna RRH Model Number	1900MHz/800MHz RRHS	2.5GHz RRH-V3/RRH 2x50-800
Number of RRH	3/3	3/3



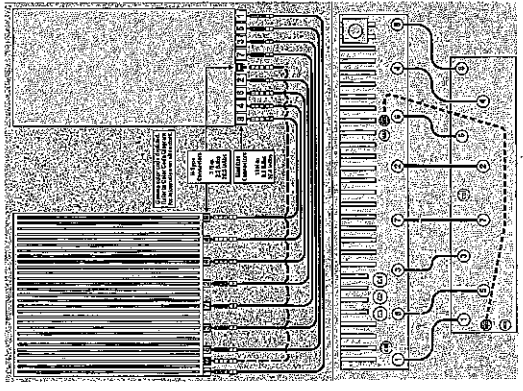


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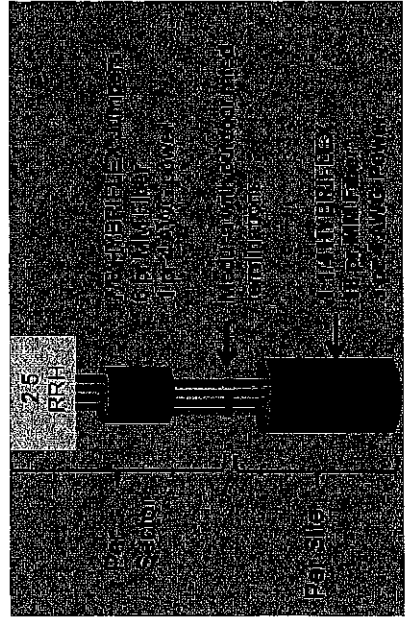
SUBMITTALS	
NO.	DESCRIPTION
1	FOR CONSTRUCTION
2	FOR REVISED DESIGN

DATE: 2/2/08
 REVIEWED BY: [Signature]
 PROJECT NO: 8867 CT03K340

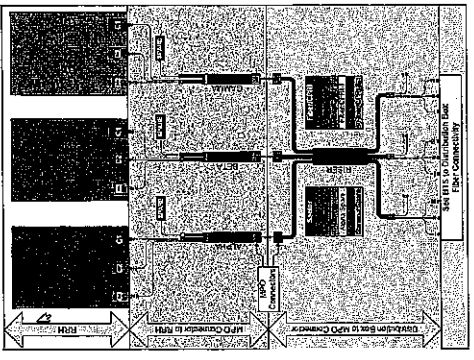
PROFESSIONAL ENGINEER
 LICENSE NO. 25-408
 ANTONIO A. GILBERTI
 362 S. MAIN STREET
 NEWTOWN, CT 06470
 SHEET TITLE: RAN WIRING DIAGRAM
 SHEET NO: A-5



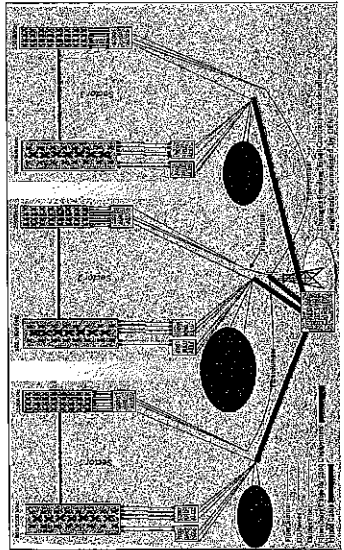
2 RRH CONNECTIVITY
 SCALE: N.T.S.



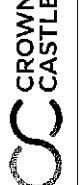
4 CABLE SCENARIO
 SCALE: N.T.S.



1 CABLE COLOR CODING
 SCALE: N.T.S.



3 RAN WIRING
 SCALE: N.T.S.



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SUBMITTALS	
PROJECT NO.	DESCRIPTION
8897-CTD00240	BY
1. 06/16/14	FOR COMMENT
2. 1/22/18	FOR CONSTRUCTION
	REVISED DESIGN
	JI

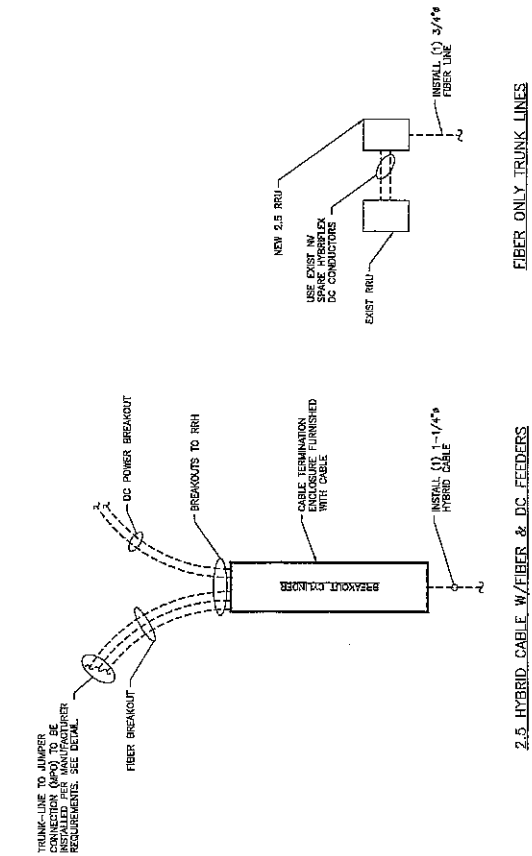
DATE: 2/13/18
 REVIEWED BY: [Signature]



382 S. MAIN STREET
 NEWTOWN, CT 06470

SHEET TITLE:
 CABLE DETAILS

SHEET NO:
 A-6



FIBER ONLY TRUNK LINES

2.5 HYBRID CABLE W/ FIBER & DC FEEDERS

2 TRUNK LINE DETAILS (TYPICAL)

SCALE: N.T.S.



IMPORTANT! LINE UP WHITE MARKINGS ON JUMPER AND RISER TO MATCH WHITE MARK ON THE JUMPER. THE WHITE MARK ON THE JUMPER CONNECTOR FLUSH AGAINST THE RED SEAL ON THE RISER CONNECTION.



IMPORTANT! ROTATE THE BATTERY HOUSING DOWNWARD TO ENSURE A GOOD CONNECTION.

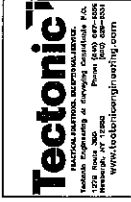


1 HYBRIFLEX RISER/JUMPER CONNECTION DETAILS

SCALE: N.T.S.

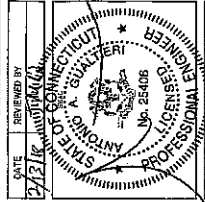
SPECIAL NOTES: CABLE MARKINGS AT RAD CENTER AND ALL WALL/BLDG. PENETRATIONS

- ALL COLOR CODE TYPE SHALL BE 3M-25 AND SHALL BE INSTALLED USING A MINIMUM OF (3) WRAPS OF TAPE.
- ALL COLOR BANDS INSTALLED AT THE TOWER TOP SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACING BETWEEN EACH COLOR.
- ALL COLOR BANDS INSTALLED AT OR NEAR THE GROUND MAY BE ONLY 3/4" WIDE. EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
- EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH 3/4" COLOR BANDS JUST PRIOR TO ENTERING THE RIS OR TRANSMITTER BUILDING.
- ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" BANDS ON EACH END OF THE BOTTOM JUMPER.
- ALL COAX CABLES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM TOP TO BOTTOM.
- EACH COLOR BAND SHALL HAVE A MINIMUM OF (3) WRAPS AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT AS TO AVOID UNRAVELING.
- X-POLE ANTENNAS SHOULD USE "30"-1" FOR THE "H48" PORT, "20"-2" FOR THE "48" PORT.
- COLOR BAND #4 REFERS TO THE FREQUENCY BAND: ORANGE=400, VIOLET=1000. USED ON JUMPERS ONLY.
- RF FEEDLINE SHALL BE IDENTIFIED WITH A METAL TAG (STAINLESS OR BRASS) AND STRAPPED WITH THE SECTOR, ANTENNA POSITION, AND CABLE NUMBER.
- ANTENNAS MUST BE IDENTIFIED, USING THE SECTOR LETTER AND ANTENNA NUMBER, WITH A BRASS WASHER, TIGHT TO PREVENTION.

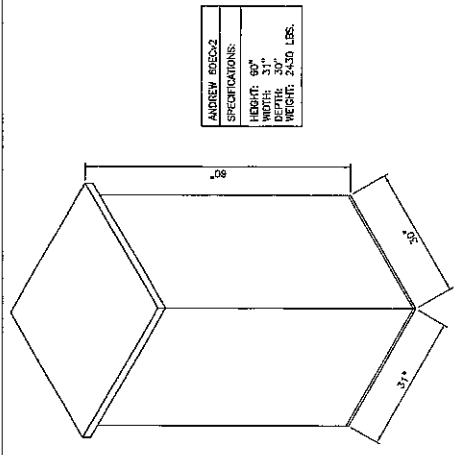


DESIGN, PREPARE AND CONTRACT FOR THE CONSTRUCTION OF THE ABOVE PROJECTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.

NO.	DATE	DESCRIPTION	BY
1	05/16/14	FOR CONSTRUCTION	DC
2	1/29/18	FOR REVISED DESIGN	JT

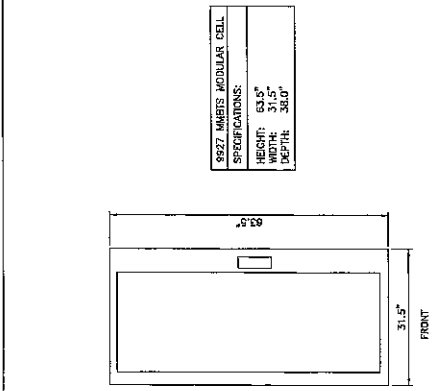


PROJECT NO: 8882.CT03X0340
 SITE NAME: 352 S. MAIN STREET
 SHEET TITLE: EQUIPMENT DETAILS
 SHEET NO: S-1



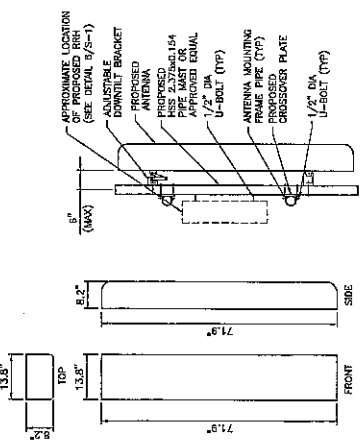
ANDREW 8825-2	
HEIGHT:	90"
WIDTH:	31"
DEPTH:	31"
WEIGHT:	2430 LBS.

1 (EXIST) BATTERY CABINET
 SCALE: 1" = 1'-0"

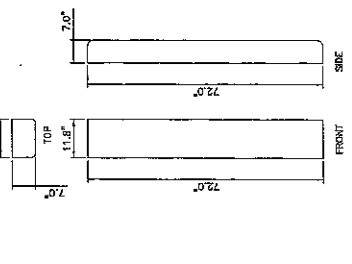


8827 MMBTS MODULAR CELL	
HEIGHT:	63.5"
WIDTH:	31.5"
DEPTH:	38.0"

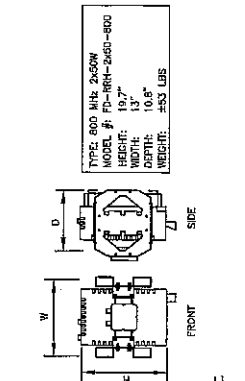
2 (EXIST) MMBTS CABINET
 SCALE: 1" = 1'-0"



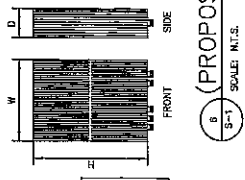
3 (PROPOSED) ANTENNA DETAIL
 SCALE: 3/4" = 1'-0"



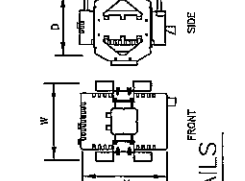
4 (EXIST) ANTENNA DETAILS
 SCALE: 3/4" = 1'-0"



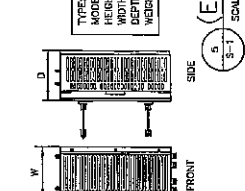
TYPE:	600 MHz 2450W
MODEL #:	FD-RRH-2450-800
HEIGHT:	19.7"
WIDTH:	13"
DEPTH:	10.8"
WEIGHT:	255 LBS



TYPE:	2.5 RRH
MODEL #:	TD-RRH20-25
HEIGHT:	26.5"
DEPTH:	6.7"
WEIGHT:	470 LBS



TYPE:	1500 MHz 6450W
MODEL #:	RRH 1500 6450 6MHz
HEIGHT:	23.0"
WIDTH:	11.1"
DEPTH:	11.4"
WEIGHT:	580 LBS.



TYPE:	1500 MHz 6450W
MODEL #:	RRH 1500 6450 6MHz
HEIGHT:	23.0"
WIDTH:	11.1"
DEPTH:	11.4"
WEIGHT:	580 LBS.

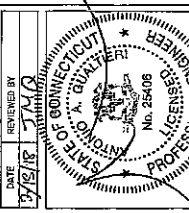
5 (EXIST) RRH DETAILS
 SCALE: 1 1/2" = 1'-0"

6 (PROPOSED) RRH DETAIL
 SCALE: N.T.S.



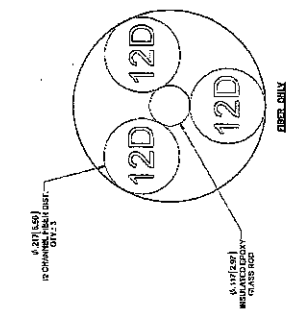
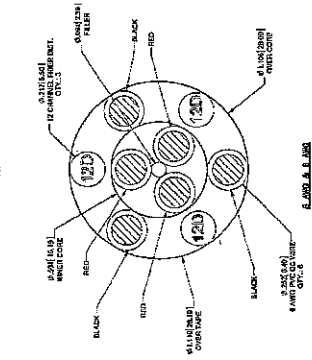
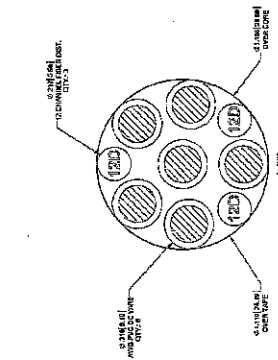
PLEASE VISIT OUR WEBSITE AT WWW.TECTONIC.COM FOR THE LATEST INFORMATION ON OUR PRODUCTS AND SERVICES. WE ARE CURRENTLY OFFERING A SPECIAL PROMOTION ON ALL NEWLY ORDERED PRODUCTS. THE SPECIAL OFFER IS A 10% DISCOUNT ON ALL NEWLY ORDERED PRODUCTS. THIS OFFER IS VALID UNTIL 12/31/08. SPECIALS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

NO.	DATE	DESCRIPTION	BY
0	05/16/08	FOR COMMENT	DC
1	06/10/08	FOR CONSTRUCTION	DC
2	12/29/08	PER REVISION DESIGN	JT



PROJECT NO: 070503C340
 SITE NAME: 365 S. MAIN STREET
 SITE ADDRESS: 365 S. MAIN STREET
 CITY: NEWTON, CT 06470
 SHEET TITLE: EQUIPMENT SCHEMATIC DETAILS
 SHEET NO: S-2

MANUF:	RIS	LENGTH	DC CONDUCTOR	CABLE DIAMETER
HYBRIFLEX	VARIES	225'-300'	USE NY HYBRIFLEX	7/8"
HYBRIFLEX	225'-300'	6 AWG		1-1/4"
HYBRIFLEX	325'-375'	4 AWG		1-3/4"



Part No.	Description	Qty
1000000000	12 AWG Power Cable, 225'-300'	1
1000000000	12 AWG Power Cable, 325'-375'	1

Part No.	Description	Qty
1000000000	12 AWG Power Cable, 225'-300'	1
1000000000	12 AWG Power Cable, 325'-375'	1

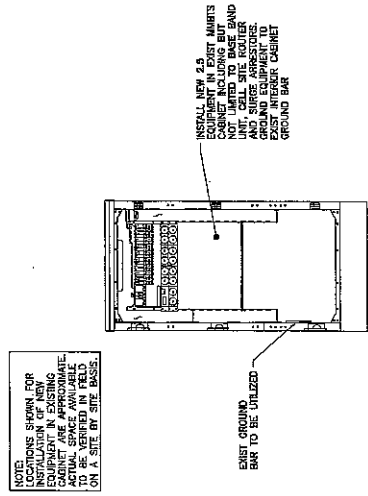
Part No.	Description	Qty
1000000000	12 AWG Power Cable, 225'-300'	1
1000000000	12 AWG Power Cable, 325'-375'	1

Part No.	Description	Qty
1000000000	12 AWG Power Cable, 225'-300'	1
1000000000	12 AWG Power Cable, 325'-375'	1

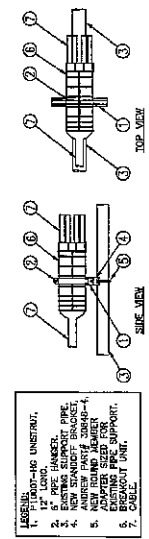
Part No.	Description	Qty
1000000000	12 AWG Power Cable, 225'-300'	1
1000000000	12 AWG Power Cable, 325'-375'	1

Part No.	Description	Qty
1000000000	12 AWG Power Cable, 225'-300'	1
1000000000	12 AWG Power Cable, 325'-375'	1

Part No.	Description	Qty
1000000000	12 AWG Power Cable, 225'-300'	1
1000000000	12 AWG Power Cable, 325'-375'	1



1. MMBTS INTERIOR DETAIL
 SCALE: NTS



2. MEDUSA HEAD DETAIL
 SCALE: NTS

2. 2.5 HYBRID CABLE X-SECTION AND DATA
 SCALE: NTS



Date: January 05, 2018

Charles McGuirt
Crown Castle
3530 Toringdon Way Suite 300
Charlotte, NC 28277

Crown Castle
2000 Corporate Dr.
Canonsburg PA 15317
(724) 416-2000

Subject: Structural Analysis Report

Carrier Designation: *Sprint PCS Co-Locate*
Carrier Site Number: CT03XC340
Carrier Site Name: CT03XC340

Crown Castle Designation:
Crown Castle BU Number: 876353
Crown Castle Site Name: 352 S. MAIN ST, NEW TOWN, CT
Crown Castle JDE Job Number: 467401
Crown Castle Work Order Number: 1508395
Crown Castle Application Number: 412565 Rev. 2

Engineering Firm Designation: **Crown Castle Project Number:** 1508395

Site Data: 352 S. Main Street, NEWTOWN, Fairfield County, CT
Latitude 41° 21' 20.64", Longitude -73° 15' 47.67"
150 Foot - Monopole Tower

Dear Charles McGuirt,

Crown Castle is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the above mentioned tower. This analysis has been performed in accordance with the Crown Castle Structural 'Statement of Work' and the terms of Crown Castle Purchase Order Number 1508395, in accordance with application 412565, revision 2.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Existing + Reserved + Proposed Equipment **Sufficient Capacity**
Note: See Table I and Table II for the proposed and existing/reserved loading, respectively.

This analysis has been performed in accordance with the 2016 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 120 mph converted to a nominal 3-second gust wind speed of 93 mph per Section 1609.3 and Appendix N as required for use in the TIA-222-G Standard per Exception #5 of Section 1609.1.1. Exposure Category B and Risk Category II were used in this analysis.

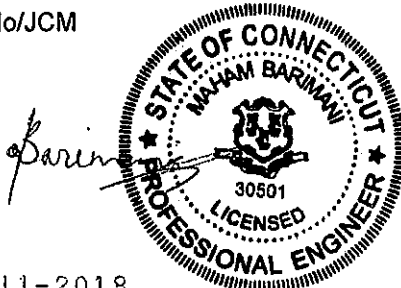
All equipment proposed in this report shall be installed in accordance with the attached drawings for the determined available structural capacity to be effective.

We at Crown Castle appreciate the opportunity of providing our continuing professional services to you and Crown Castle. If you have any questions or need further assistance on this or any other projects, please give us a call.

Structural analysis prepared by: Julia Vido/JCM

Respectfully submitted by:

Maham Barimani, P.E.
Senior Project Engineer



tnxTower Report - version 7.0.5.1

01-11-2018

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1) INTRODUCTION

This tower is a 150 ft Monopole tower designed by ROHN in October of 1996. The tower was originally designed for a wind speed of 85 mph per TIA/EIA-222-E.

2) ANALYSIS CRITERIA

The structural analysis was performed for this tower in accordance with the requirements of TIA-222-G Structural Standards for Steel Antenna Towers and Antenna Supporting Structures using a 3-second gust wind speed of 93 mph with no ice, 50 mph with 0.75 inch ice thickness and 60 mph under service loads, exposure category B.

Table 1 - Proposed Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
148.0	150.0	2	alcatel lucent	800MHZ RRH	1	1-1/4	-
		3	alcatel lucent	RRH2X50-800			
		3	alcatel lucent	TD-RRH8X20-25			
		3	commscope	DT465B-2XR w/ Mount Pipe			

Table 2 - Existing and Reserved Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note	
148.0	153.0	1	decibel	DB222-A	3 1	1-1/4 1/2	1	
	150.0	3	alcatel lucent	1900MHZ RRH (65MHZ)				
		1	alcatel lucent	800MHZ RRH				
	148.0	150.0	3	rfs celwave	APXVSP18-C-A20 w/ Mount Pipe	-	-	3
			3	alcatel lucent	800 EXTERNAL NOTCH FILTER			
		148.0	2	alcatel lucent	800MHZ RRH	-	-	1
			9	rfs celwave	ACU-A20-N			
135.0	135.0	1	tower mounts	Platform Mount [LP 502-1]	6	1-5/8	1	
		3	commscope	LNX-6515DS-A1M w/ Mount Pipe				
		3	ericsson	KRY 112 489/2				
		3	rfs celwave	APXV18-206513-C-A20 w/ Mount Pipe				
130.0	131.0	1	gps	GPS_A	1	1/2	1	
	130.0	1	tower mounts	Side Arm Mount [SO 701-1]				

- Notes:
 1) Existing Equipment
 2) Reserved Equipment
 3) Equipment To Be Removed; Not Considered in Analysis

Table 3 - Design Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
150	150	12	Swedcom	ALP9212	12	1-5/8
130	130	12	Swedcom	ALP9212	12	1-5/8

3) ANALYSIS PROCEDURE

Table 4 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	Goodkind & O'Dea, Inc.	1531889	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	Rohn	1619496	CCISITES
4-TOWER MANUFACTURER DRAWINGS	Rohn	2047929	CCISITES

3.1) Analysis Method

tnxTower (version 7.0.5.1), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

- 1) Tower and structures were built in accordance with the manufacturer's specifications.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 4) Base and flange plate design methodology of the manufacturer has been reviewed and found to be an acceptable means of designing to resist the full capacity of the bolts and shaft.

This analysis may be affected if any assumptions are not valid or have been made in error. Crown Castle should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 5 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	150 - 120	Pole	P24x1/4	1	-6.996	662.265	49.1	Pass
L2	120 - 90	Pole	P30x3/8	2	-11.663	1311.060	50.5	Pass
L3	90 - 60	Pole	P36x3/8	3	-17.253	1490.100	61.3	Pass
L4	60 - 30	Pole	P42x3/8	4	-23.760	1668.870	67.8	Pass
L5	30 - 0	Pole	P42x1/2	5	-32.307	2410.400	67.2	Pass
							Summary	
						Pole (L4)	67.8	Pass
						RATING =	67.8	Pass

Table 6 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Bolts	120	19.1	Pass
1, 2	Flange Plate		49.1	Pass
1	Flange Bolts	90	30.3	Pass
1, 2	Flange Plate		50.5	Pass
1	Flange Bolts	60	40.2	Pass
1, 2	Flange Plate		61.3	Pass
1	Flange Bolts	30	59.7	Pass
1, 2	Flange Plate		67.8	Pass
1	Anchor Rods	0	67.7	Pass
1, 3	Base Plate		67.7	Pass
1	Base Foundation Structure	0	13.2	Pass
1	Base Foundation Soil Interaction	0	64.7	Pass

Structure Rating (max from all components) =	67.8%
---	--------------

Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) Flange plates are assumed to have the same capacity as their respective shaft.
- 3) Base plate is assumed to have the same capacity as the anchor rods.

4.1) Recommendations

The tower and its base and anchor foundations have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.



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RADIO FREQUENCY EMISSIONS ANALYSIS REPORT EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

SPRINT Existing Facility

Site ID: CT03XC340

352 S. Main Street
352 S. Main Street
Newtown, CT 06470

April 4, 2018

EBI Project Number: 6218002551

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	3.21 %

BU 876353
APP 397605



EBI Consulting

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April 4, 2018

SPRINT

Attn: RF Engineering Manager
1 International Boulevard, Suite 800
Mahwah, NJ 07495

Emissions Analysis for Site: **CT03XC340 – 352 S. Main Street**

EBI Consulting was directed to analyze the proposed SPRINT facility located at **352 S. Main Street, Newtown, CT**, for the purpose of determining whether the emissions from the Proposed SPRINT Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

General population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 850 MHz Band is approximately $567 \mu\text{W}/\text{cm}^2$. The general population exposure limit for the 1900 MHz (PCS) and 2500 MHz (BRS) bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



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Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed SPRINT Wireless antenna facility located at **352 S. Main Street, Newtown, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since SPRINT is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 1 CDMA channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.
- 2) 2 LTE channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.
- 3) 5 CDMA channels (1900 MHz (PCS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 16 Watts per Channel.
- 4) 2 LTE channels (1900 MHz (PCS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 5) 8 LTE channels (2500 MHz (BRS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.



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- 6) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 7) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 8) The antennas used in this modeling are the **RFS APXVSP18-C-A20** and the **Commscope DT465B-2XR** for transmission in the 850 MHz, 1900 MHz (PCS) and 2500 MHz (BRS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 9) The antenna mounting height centerlines of the proposed antennas are **150 feet** above ground level (AGL) for **Sector A**, **150 feet** above ground level (AGL) for **Sector B** and **150 feet** above ground level (AGL) for Sector C.
- 10) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculations were done with respect to uncontrolled / general population threshold limits.



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SPRINT Site Inventory and Power Data by Antenna

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	RFS APXVSP18-C-A20	Make / Model:	RFS APXVSP18-C-A20	Make / Model:	RFS APXVSP18-C-A20
Gain:	13.4 / 15.9 dBd	Gain:	13.4 / 15.9 dBd	Gain:	13.4 / 15.9 dBd
Height (AGL):	150 feet	Height (AGL):	150 feet	Height (AGL):	150 feet
Frequency Bands:	850 MHz / 1900 MHz (PCS)	Frequency Bands:	850 MHz / 1900 MHz (PCS)	Frequency Bands:	850 MHz / 1900 MHz (PCS)
Channel Count:	8	Channel Count:	8	Channel Count:	8
Total TX Power(W):	180 Watts	Total TX Power(W):	180 Watts	Total TX Power(W):	180 Watts
ERP (W):	6,662.27	ERP (W):	6,662.27	ERP (W):	6,662.27
Antenna A1 MPE%:	1.21 %	Antenna B1 MPE%:	1.21 %	Antenna C1 MPE%:	1.21 %
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Commscope DT465B-2XR	Make / Model:	Commscope DT465B-2XR	Make / Model:	Commscope DT465B-2XR
Gain:	15.05 dBd	Gain:	15.05 dBd	Gain:	15.05 dBd
Height (AGL):	150 feet	Height (AGL):	150 feet	Height (AGL):	150 feet
Frequency Bands:	2500 MHz (BRS) / 850 MHz	Frequency Bands:	2500 MHz (BRS) / 850 MHz	Frequency Bands:	2500 MHz (BRS) / 850 MHz
Channel Count:	10	Channel Count:	10	Channel Count:	10
Total TX Power(W):	200 Watts	Total TX Power(W):	200 Watts	Total TX Power(W):	200 Watts
ERP (W):	5,983.32	ERP (W):	5,983.32	ERP (W):	5,983.32
Antenna A2 MPE%:	1.15 %	Antenna B2 MPE%:	1.15 %	Antenna C2 MPE%:	1.15 %

Site Composite MPE%	
Carrier	MPE%
SPRINT – Max per sector	2.36 %
T-Mobile	0.85 %
Town (receive Only)	0.00 %
Site Total MPE %:	3.21 %

SPRINT Sector A Total:	2.36 %
SPRINT Sector B Total:	2.36 %
SPRINT Sector C Total:	2.36 %
Site Total:	3.21 %

SPRINT Frequency Band / Technology Max Power Values (All Sectors)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
Sprint 850 MHz CDMA	1	437.55	150	0.76	850 MHz	567	0.13%
Sprint 1900 MHz (PCS) CDMA	5	622.47	150	5.40	1900 MHz (PCS)	1000	0.54%
Sprint 1900 MHz (PCS) LTE	2	1,556.18	150	5.40	1900 MHz (PCS)	1000	0.54%
Sprint 2500 MHz (BRS) LTE	8	639.78	150	8.87	2500 MHz (BRS)	1000	0.89%
Sprint 850 MHz LTE	2	432.54	150	1.50	850 MHz	567	0.26%
Total:							2.36%



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Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the SPRINT facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

SPRINT Sector	Power Density Value (%)
Sector A:	2.36 %
Sector B:	2.36 %
Sector C:	2.36 %
SPRINT Maximum Total (per sector):	2.36 %
Site Total:	3.21 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **3.21 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

Zsamba, Anne Marie (Contractor)

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NEWTOWN,
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Signed for By:
D.HAN
Invoice number: 982896
Reference: 1766.668
Signed for by: D.HAN

Delivery location: NEWTOWN, CT
Delivered to: Receptionist/Front Desk
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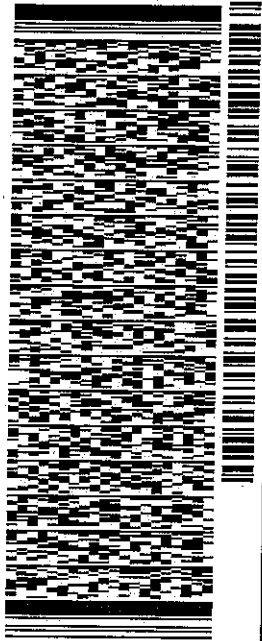
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NEWTOWN CT 06470

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552.11/9132/DCA5



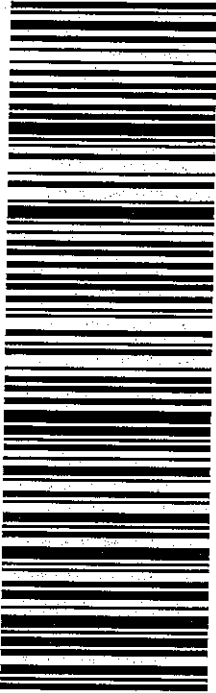
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Rebecca
Alescio
Crown Castle
Clifton Park,
NY 12065
US




Delivery date:
**Fri,
4/20/2018
9:52 am**
Robert
Mulholland
Town of
Newtown
3 Primrose
Street
NEWTOWN,
CT 06470
US

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D.FRIED
Invoice number: 982896
Reference: 1766.668
Signed for by: D.FRIED
Delivery location: NEWTOWN, CT

Delivered to: Receptionist/Front Desk
Service type: FedEx Priority Overnight
Packaging type: FedEx Pak
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Special handling/Services: Deliver Weekday
Standard transit: 4/20/2018 by 10:30 am

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SUITE 101
CLIFTON PARK, NY 12065
UNITED STATES US

SHIP DATE: 19APR18
ACTWGT: 1.00 LB
CAD: 104024194/NET3980

BILL SENDER

TO ROBERT MULHOLLAND
TOWN OF NEWTOWN
3 PRIMROSE STREET

NEWTOWN CT 06470

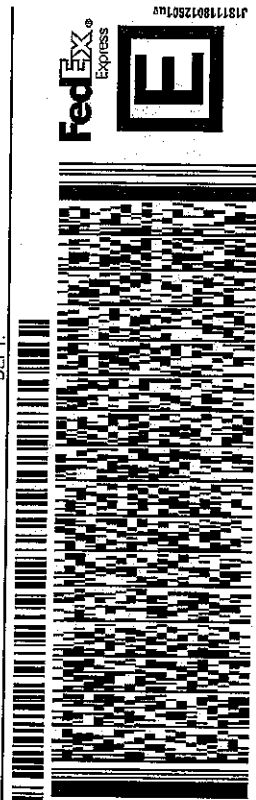
(203) 270-4276 REF: 1766.668

INV: 982896

P.O.:

DEPT:

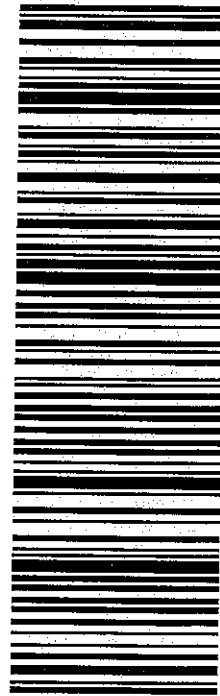
552419132/DCA5



FRI - 20 APR 10:30A
PRIORITY OVERNIGHT

TRK# 7720 3756 7190

EG DXRA
06470
CT-US SWF



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REBECCA ALESCIO
CROWN CASTLE
3 CORPORATE PARK DRIVE
SUITE 101
CLIFTON PARK, NY 12065
UNITED STATES US

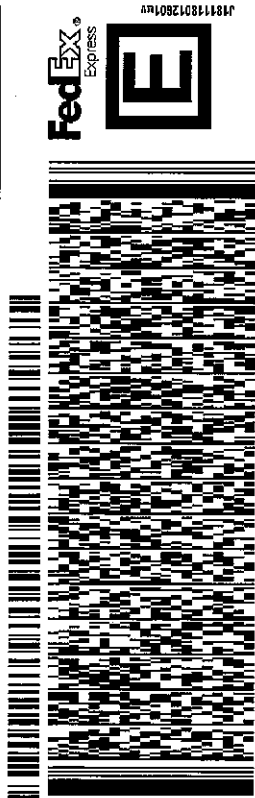
SHIP DATE: 24APR18
ACTWGT: 2.00 LB
CAD: 104924194/NET3980
BILL SENDER

TO **MELANIE BACHMAN**
CONNECTICUT SITING COUNCIL
10 FRANKLIN SQUARE

NEW BRITAIN CT 06051

(860) 827-2951 REF: 17656680
INV: 982886

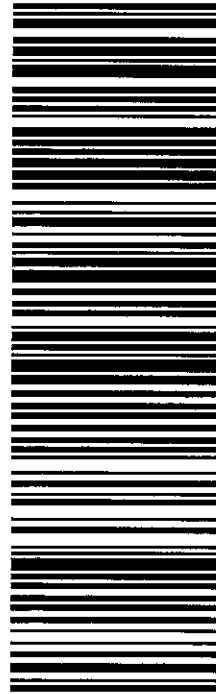
PO: DEPT:



WED - 25 APR 10:30A
PRIORITY OVERNIGHT
DSR

TRK# **7720 6648 5230**

EB MPEA
06051
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876353 CT03XC340

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