

QC Development
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February 15, 2017

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

Notice of Exempt Modification – New Cingular Wireless PCS, LLC (AT&T) – CT2838 490 Jefferson Avenue (Bates Woods Park), New London, CT 06320 N 41-21-40.72 W 73-22-28.75

Dear Ms. Bachman:

AT&T currently maintains twelve (12) antennas at the 111-foot level of the existing 114-foot Ballfield Lightpole at Bates Woods Park, New London, CT. The tower is owned by Message Center Management. The property is owned by the City of New London. AT&T now intends to install three (3) additional Ericsson remote radio units (RRUS-32) at the 111-foot level of the tower.

This facility was approved by the Connecticut Siting Council in Docket #0439 on October 31, 2013. This approval included a condition that the tower and antennas not exceed 115 feet above ground level. No modification to the overall facility height is proposed, so this modification therefore complies with the aforementioned approval.

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.C.S.A. § 16-50j-73, a copy of this letter is being sent to Michael Passero, Mayor of the City of New London and the City's Office of Development and Planning, as well as the property owner and the tower owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

- 1. The proposed modifications will not result in an increase in the height of the existing structure.
- 2. The proposed modifications will not require the extension of the site boundary.
- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications 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, AT&T respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Please feel free to call me at (860) 670-9068 with any questions regarding this matter. Thank you for your consideration.

Sincerely,

Mark Roberts

QC Development

Consultant for AT&T

Attachments

cc: The Honorable Michael Passero - as elected official and property owner (via e-mail)

Tammy Daugherty – as local Planning & Zoning representative (via e-mail)

Message Center Management - as tower owner (via e-mail)

Power Density

Existing Loading on Tower

Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm^2)	Freq. Band (MHz**)	Limit S (mW /cm^2)	%МРЕ
Other Carriers*							0%
AT&T UMTS	2	500	111	0.0326	850	0.5667	0.58%
AT&T UMTS	2	500	111	0.0326	1900	1.0000	0.33%
AT&T LTE	1	500	111	0.0163	700	0.4667	0.35%
Site Total							1.25%

^{*}Per CSC Records (available upon request, includes calculation formulas)

Proposed Loading on Tower

Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm^2)	Freq. Band (MHz**)	Limit S (mW /cm^2)	%МРЕ
Other Carriers*							0%
AT&T UMTS	2	500	111	0.0326	850	0.5667	0.58%
AT&T UMTS	2	500	111	0.0326	1900	1.0000	0.33%
AT&T LTE	1	1476	111	0.0481	700	0.4667	1.03%
AT&T LTE	1	2421	111	0.0790	1900	1.0000	0.79%
AT&T LTE	1	2535	111	0.0827	2100	1.0000	0.83%
Site Total							3.55%

^{*}Per CSC Records (available upon request, includes calculation formulas)

^{**} If a range of frequencies are used, such as 880-894, enter the lowest value, i.e. 880

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PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS

SITE ADDRESS: 490 JEFFERSON AVENUE NEW LONDON, CT 06320

> 41° 21' 22" N 72° 07' 27" W

JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES

CURRENT USE: TELECOMMUNICATIONS FACILITY PROPOSED USE: TELECOMMUNICATIONS FACILITY

DESIGN GUIDELINE: LTE 3C

LATITUDE:

LONGITUDE:

SITE NUMBER: CT2838

SITE NAME: NEW LONDON JEFFERSON AVENUE

490 JEFFERSON AVENUE NEW LONDON, CT 06320 NEW LONDON COUNTY

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LOCUS MAP

DRIVING DIRECTIONS FROM 550 COCHITUATE ROAD, FRAMINGHAM, MA: Head northeast, Turn right toward Speen St, Turn right onto Speen St

Turn right onto Cochituate Rd

Use the right lane to take the ramp to I-90/Masspike/Springfield/Boston

Keep left at the fork, follow signs for Interstate 90 W/Massachusetts Turnpike/Worchester/Springfield and merge onto I-90 W/Massachusetts Turnpike

Merge onto I-90 W/Massachusetts Turnpike

Take exit 10 toward MA-12 N/Auburn/Worcester

Keep right at the fork, follow signs for I-395 S/US-20 E/Norwich Ct Continue onto I-395 S, Entering Connecticut

Take exit 77 for CT-85 toward Waterford/Chesterfield

10. Turn left onto CT-85 S 11. Turn right onto Jefferson Ave

GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



DIG SAFE SYSTEM, INC.



CALL BEFORE YOU DIG

CALL TOLL FREE: 811 OR 888-DIG-SAFE

UNDERGROUND SERVICE ALERT





SAI COMMUNICATIONS 27 NORTHWESTERN DRIVE SALEM, NH 03079

SITE NUMBER: CT2838 SITE NAME: NEW LONDON JEFFERSON

AVENUE 490 JEFFERSON AVENUE NEW LONDON, CT 06320 NEW LONDON COUNTY



NO.	DATE	REVISIONS	BY	СНК	
	01/24/17		AAB	MRC	
1	02/03/17	REVISION	AAB	MRC	
					C

TITLE SHEET

550 COCHITUATE ROAD, SUITE 13, FRAMINGHAM, MA 01701-4681

T-1 SHEET NO.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS. AND ORDINANCES.
- 2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- 3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE LESEE/LICENSEE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK, IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN
- 5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT
- 7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- 8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL COVERNMENT AUTHORITY
- 12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, DURING CONSTRUCTION, UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- 13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE

- 14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- 15. THE CONTRACTOR SHALL NOTIFY THE LESEE/LICENSEE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESEE/LICENSEE
- 16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- 17. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK, CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY: DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG (CT): 1-800-922-4455
- 18. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS
- 19. ALL DIMENSIONS SHOWN THUS \pm ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECT THE CONTRACTORS WORK, CONTRACTOR TO VERIFY ALL DIMENSIONS WITH PROJECT OWNER PRIOR TO CONSTRUCTION.
- 20. NORTH ARROW SHOWN ON PLANS REFERS TO APPROXIMATE TRUE NORTH. PRIOR TO THE START OF CONSTRUCTION, ORDERING OR FABRICATING OF ANTENNA MOUNTS, CONTRACTOR SHALL CONSULT WITH PROJECT OWNER'S RF ENGINEER AND FIELD VERIFY ALL ANTENNA SECTOR LOCATIONS AND ANTENNA AZIMUTHS.
- 21. THE CONTRACTOR AND OR HIS SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- 22. ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.
- 23. COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE PROVIDED BY THE PROJECT OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. A SCHEDULE OF PROJECT OWNER SUPPLIED MATERIALS IS ATTACHED TO THE BID DOCUMENTS (SEE EXHIBIT 3). ALL OTHER HARDWARE TO BE PROVIDED BY THE CONTRACTOR, CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
- 24. WHEN "PAINT TO MATCH" IS SPECIFIED FOR ANTENNA CONCEALMENT, PAINT PRODUCT FOR ANTENNA RADOME SHALL BE SHERWIN WILLIAMS COROTHANE II. SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND PROJECT OWNER'S GUIDELINE'S.
- 25. COORDINATION, LAYOUT, AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 26. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
- 27. ALL (E)ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING

- 28. ALL (E)INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES. WHICH INTERFERE WITH THE EXECUTION OF THE WORK. SHALL BE REMOVED AND/OR CAPPED PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK. SUBJECT TO THE APPROVAL OF UTILITY COMPANY ENGINEERING, THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT, DRIVEWAY OR
- 29. GRAVEL, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED AND COVERED WITH MULCH UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES
- 30. DURING CONSTRUCTION. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS
- 31. FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED
- 32. APPLICABLE BUILDING CODES: SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:

2009 INTERNATIONAL BUILDING CODE 2005 CT STATE BUILDING CODE ELECTRICAL CODE: NEC 2014 LIGHTING CODE: NEC 2014

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

> AMERICAN CONCRETE INSTITUTE (ACI) 318: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES: REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS. THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT. THE SPECIFIC REQUIREMENT SHALL GOVERN.

ELECTRICAL AND GROUNDING NOTES

- 1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- 2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- 3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- 4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- 5. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLÍC CONDUITS.
- 6. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- 7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THHN INSULATION.
- 8. RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH LITHLITY COMPANY.
- 9. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING, PROVIDE FULL LENGTH PULL ROPE AND GREENLEE CONDUIT MEASURING TAPE IN EACH INSTALLED TELCO CONDUIT.
- 10. WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- 11. ALL FOUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- 12. PPC SUPPLIED BY PROJECT OWNER.
- 13. GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
- 14. GROUND COAXIAL CABLE SHIFLDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT

- 15. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- 16. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- 17. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY, BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- 18. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- 19. BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALNA TO EGB PLACED NEAR THE ANTENNA LOCATION.
- 20. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- 21. CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/ (E) MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- 22. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MAXIMUM RESISTANCE REQUIRED.
- 23.CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.



ABBREVIATIONS ABOVE GRADE LEVEL GENERAL CONTRACTOR RF RADIO FREQUENCY AMERICAN WIRE GAUGE MGB MASTER GROUND BUS BARE COPPER WIRE MIN MINIMIIM TBD TO BE DETERMINED BASE TRANSCEIVER STATION (P) PROPOSED/NEW TO BE REMOVED TO BE REMOVED (E) TRRR FXISTING NOT TO SCALE AND REPLACED EQUIPMENT GROUND EG REF REFERENCE TYP TYPICAL EQUIPMENT GROUND RING REQ REQUIRED (F) **FUTURE** DATE REVISIONS

AAB MRC

AAB MRC

SHEET NO.





SAI COMMUNICATIONS 27 NORTHWESTERN DRIVE SALEM. NH 03079

SITE NUMBER: CT2838 SITE NAME: NEW LONDON JEFFERSON

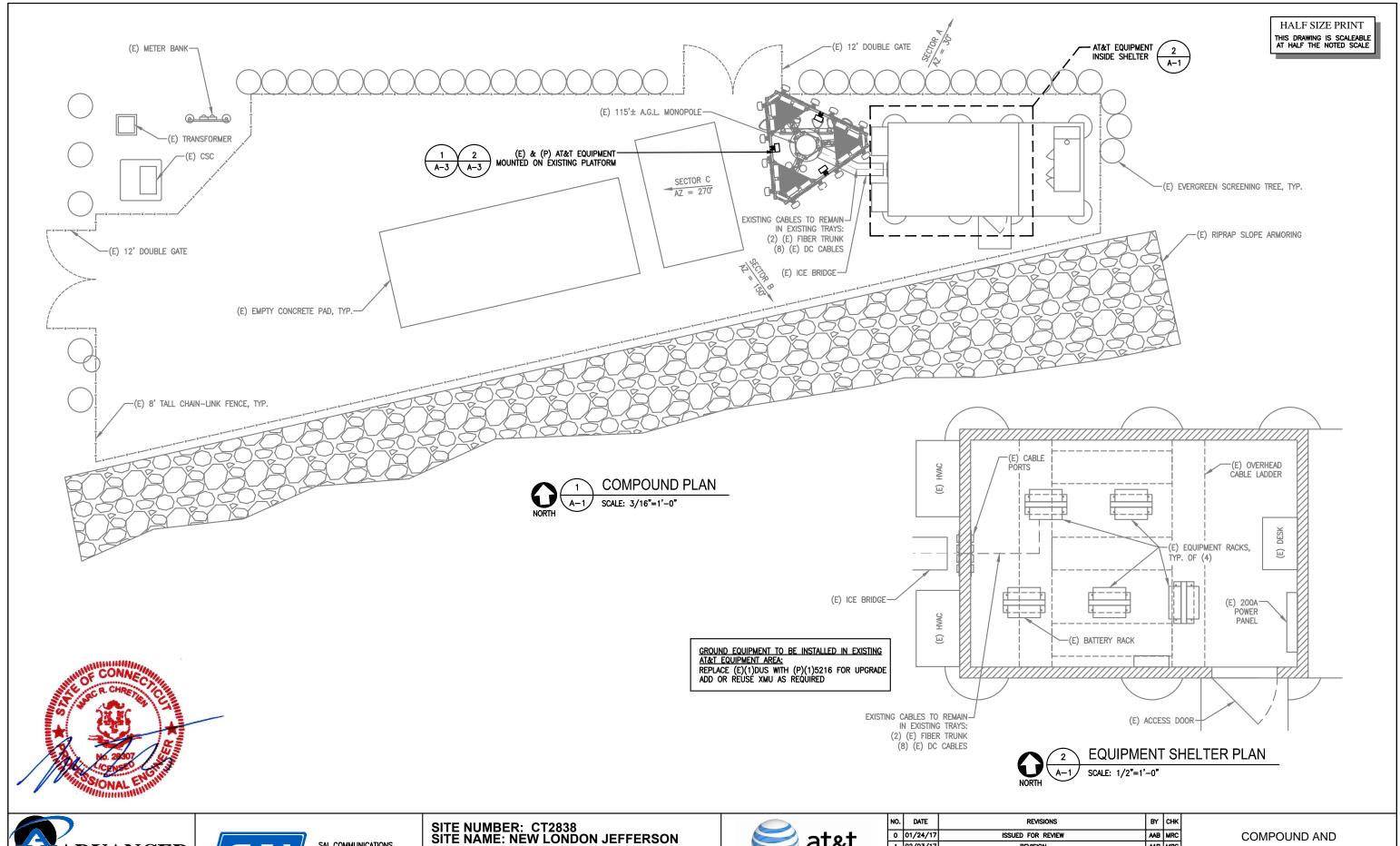
AVENUE 490 JEFFERSON AVENUE NEW LONDON, CT 06320 NEW LONDON COUNTY



FRAMINGHAM, MA 01701-4681

0 01/24/17 ISSUED FOR REVIEW 02/03/17 REVISION

GENERAL NOTES GN-1







SAI COMMUNICATIONS 27 NORTHWESTERN DRIVE

AVENUE 490 JEFFERSON AVENUE NEW LONDON, CT 06320 NEW LONDON COUNTY



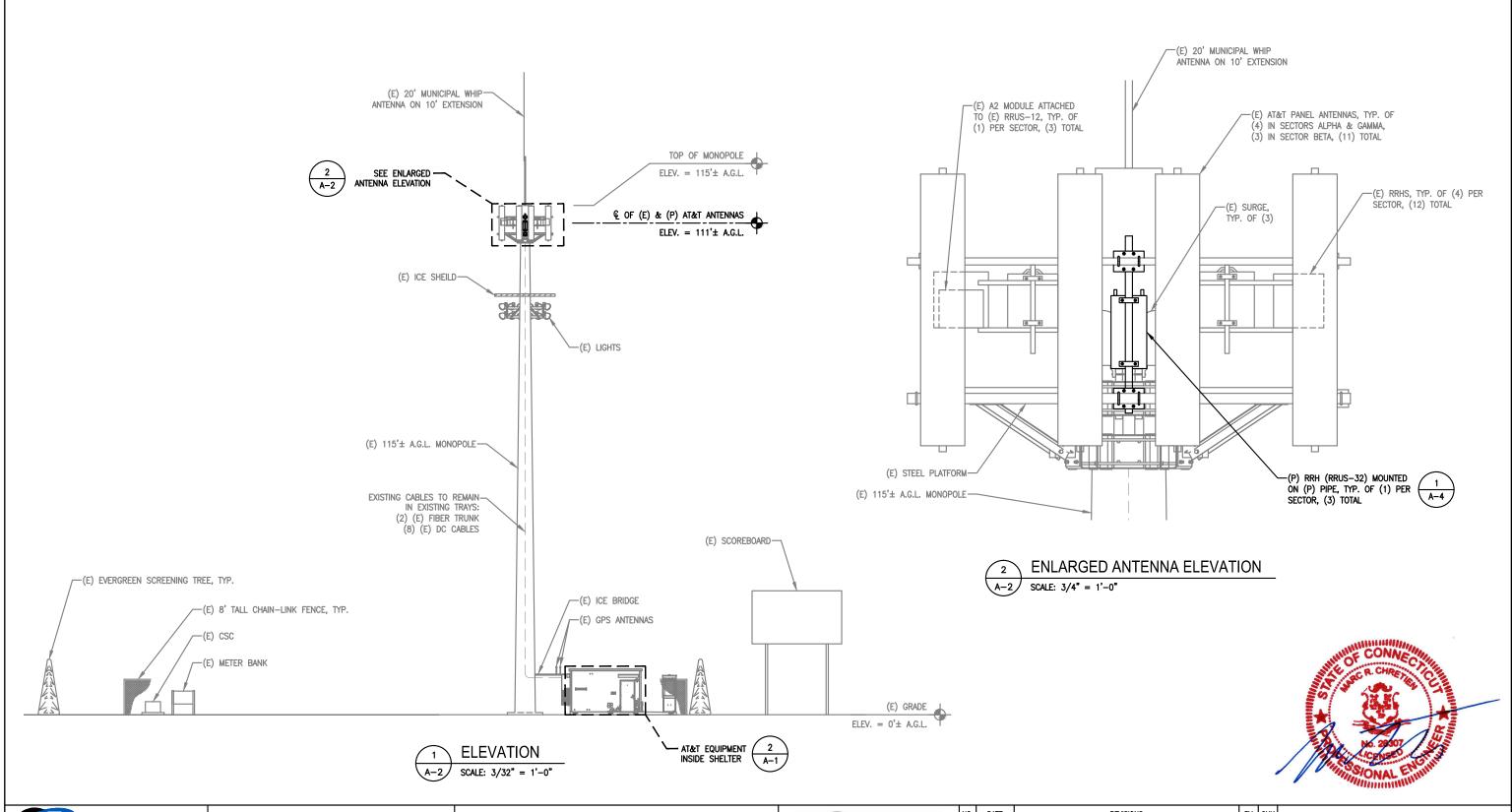
FRAMINGHAM, MA 01701-4681

10.	DATE	REVISIONS	BY	СНК	
	01/24/17		AAB	MRC	
1	02/03/17	REVISION	AAB	MRC	
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EQUIPMENT PLANS

A-1 EET NO.

HALF SIZE PRINT
THIS DRAWING IS SCALEABLE
AT HALF THE NOTED SCALE







SAI COMMUNICATIONS 27 NORTHWESTERN DRIVE SALEM, NH 03079 SITE NUMBER: CT2838 SITE NAME: NEW LONDON JEFFERSON

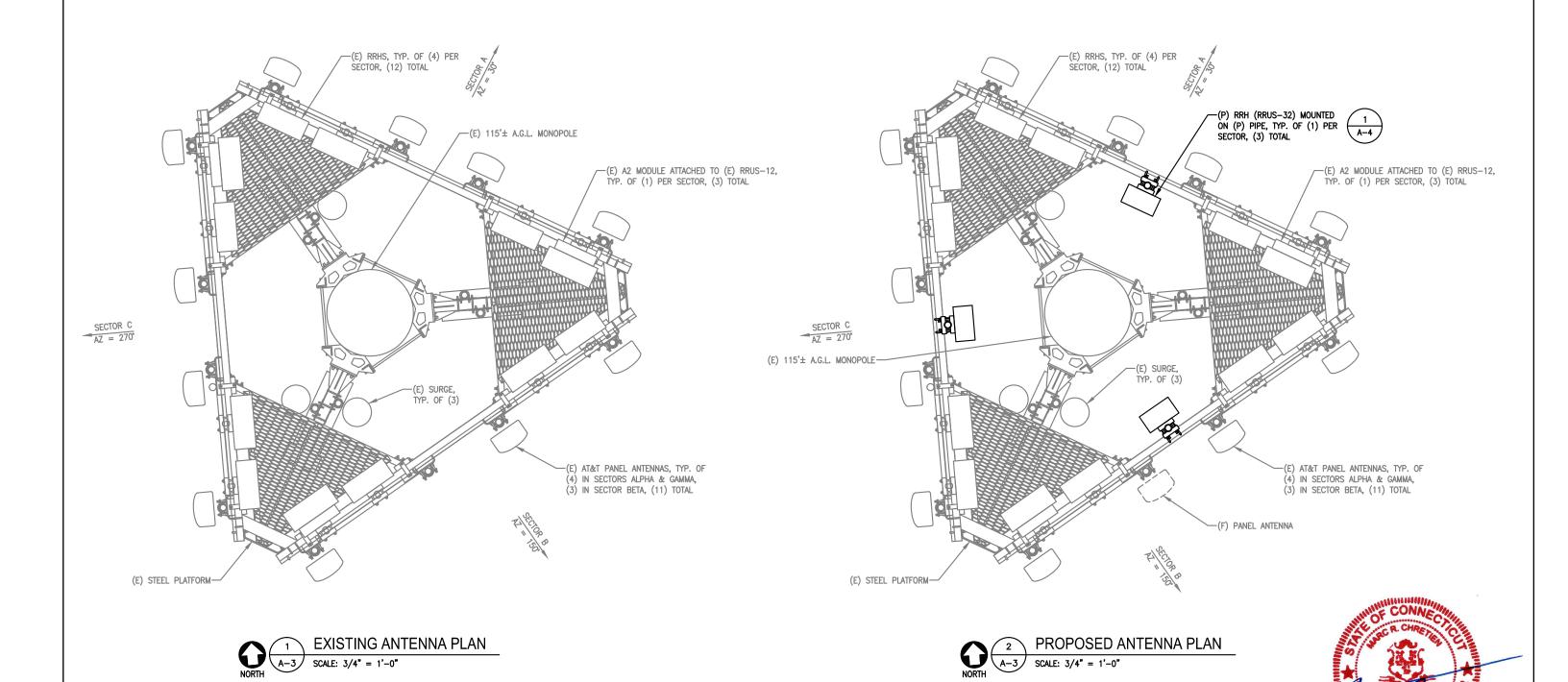
AVENUE 490 JEFFERSON AVENUE NEW LONDON, CT 06320 NEW LONDON COUNTY



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ELEVATIONS

SHEET NO. A-2





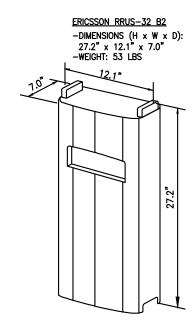




AVENUE
490 JEFFERSON AVENUE
NEW LONDON, CT 06320
NEW LONDON COUNTY

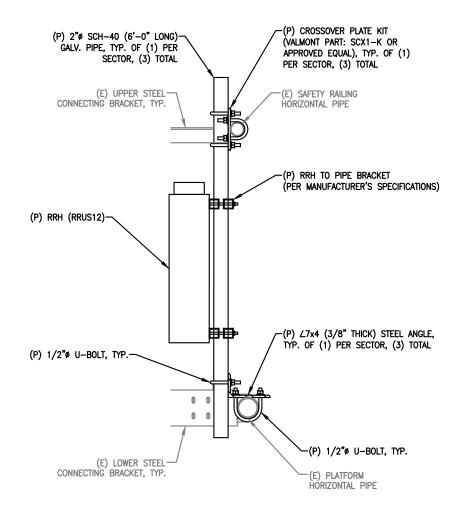


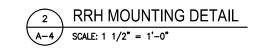
NO.	DATE	REVISIONS	BY	снк			
0	01/24/17	ISSUED FOR REVIEW	AAB	MRC			
1	02/03/17	REVISION	AAB	MRC	F	ANTENNA PLANS	
					SHEET NO.	A-3	
					SHEEL NO.	A-3	



 $\begin{array}{c} \underline{\text{NOTES:}} \\ \text{RRU CAN } \underline{\text{ONLY}} \ \ \text{BE PAINTED ON SOLAR SHIELD.} \end{array}$

REMOTE RADIO HEAD (RRH) DETAILS
SCALE: N.T.S.









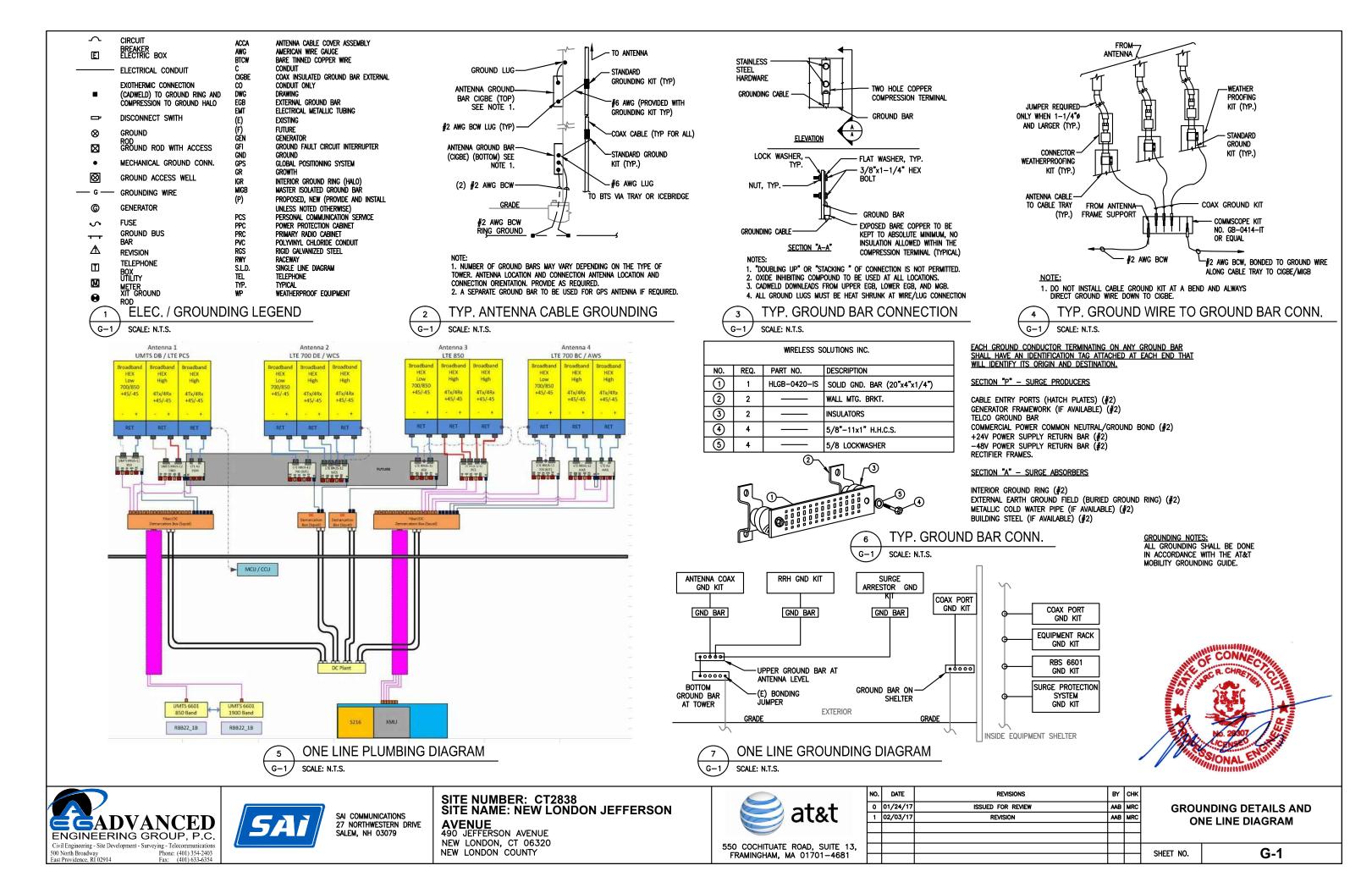


SITE NUMBER: CT2838 SITE NAME: NEW LONDON JEFFERSON

AVENUE
490 JEFFERSON AVENUE
NEW LONDON, CT 06320
NEW LONDON COUNTY

at&t
550 COCHITUATE ROAD, SUITE 13, FRAMINGHAM, MA 01701-4681

NO.	DATE	REVISIONS	BY	снк				
0	01/24/17	ISSUED FOR REVIEW	AAB	MRC		DET 4 11 0		
1	02/03/17	REVISION	AAB	MRC		DETAILS		
					SHEET NO.	A-4		
					SHEET NO.	A-4		



Structural Analysis Report

114' Monopole (Light Pole)490 Jefferson AvenueNew London, Connecticut 06320

AT&T Site Number CT2383

February 10, 2017

Prepared By:



500 North Broadway East Providence, RI 02914

Prepared for SAI Communications 27 Northwestern Drive Salem, NH 03079



February 10, 2017

Tim Burks SAI Communications 27 Northwestern Drive Salem, NH 03079

STRUCTURAL ANALYSIS

Structure	114' Valmont Monopole
Client	SAI c/o AT&T
Location	490 Jefferson Avenue, New London, CT

EXECUTIVE SUMMARY

Advanced Engineering Group, P.C. (AEG) has performed a structural analysis of the existing 114'± monopole tower at the above-referenced address in order to ascertain the structural capacity of the tower with the proposed AT&T LTE 3C inventory consisting of:

• Three (3) RRUS 32 Remote Radio Heads

Based on the analysis performed, **the existing monopole is structurally adequate and is in conformance with the ANSI/TIA 222-G standard** when analyzed for the existing tower inventory and the proposed AT&T LTE inventory referenced above.

If you have any questions, of if we can be of further assistance, please do not hesitate to contact us.

Very truly yours

Marc R. Chretien, P.E.

Advanced Engineering Group. P.C.



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INTRODUCTION

At the request of Tim Burks, SAI Communications, on behalf of AT&T, Advanced Engineering Group, P.C. (AEG) has performed a structural analysis of the existing 114'± monopole tower at the above-referenced address in order to ascertain the structural capacity of the tower with the proposed AT&T LTE inventory with respect to the ANSI/TIA-222-G Standard, "Structural Standard for Antenna Supporting Structures and Antennas". The scope of this independent analysis is to determine the overall stability and the adequacy of structural members and member connections, as available and stated. This analysis assumes that the structure has been properly installed and maintained with no structural defects. Installation procedures and related loading are not within the scope of this analysis and should be performed and evaluated by a competent person of the erection contractor.

SOURCES

	Source	Information	Reference		
Tower	SAI Communications	Original tower documents by Valmont Structures, dated 1/30/14	Valmont Order No.: 228909		
Foundation	SAI Communications	Original tower documents by Valmont Structures, dated 1/30/14	S Valmont Order No.: 228909		
Existing Inventory	AEG, visual inspection from grade	Antennas and mount heights	Field inspection, 12/2/16		
	SAI Communications	RFDS	CT2838_LTE 3C_RFDS_V1.00_011117.xlsx		
Proposed Inventory	SAI Communications	RFDS	CT2838_LTE 3C_RFDS_V1.00_011117.xlsx		

Note: Unless otherwise noted, all information regarding the structural elements of the existing tower and and the existing inventory is based on the above-referenced structural report by Valmont. A structural mapping was not performed. If any discrepancies are found to exist between the as-built tower (and inventory) and the information contained in this report, the results of this report are to be considered void and invalid, and this office is to be contacted so that the analysis can be revised. This office performed a site inspection on December 2, 2016, and conducted a visual survey of the tower and appurtenances from the ground. Since the tower was not climbed, a conditional assessment was not performed during the survey.

ANALYSIS

The structural analysis was done in accordance with EIA/TIA-222-G, "Structural Standard for Antenna Supporting Structures and Antennas", and the American Institute of Steel Construction (AISC), Manual of Steel Construction, Allowable Stress Design, Ninth Edition. The computer program used to model the structure is tnxTower (ver. 7.0.7.0), a commercially available program developed and maintained by Tower Numerics. Latticed structures members are modeled using beam/truss and cable members and the pole members are modeled using tubular beam elements. Stresses are internally calculated for various dead, live, wind, and ice load cases and then applied as external loads on the structure. Any applicable exemptions, as per Section 15.6 of the TIA-222-G Standard for existing structures originally designed in accordance with a previous revision of the TIA-222 Standard, have been taken. Selected output from the analysis is included in Appendix C. The analysis was conducted using the following parameters:

Load Cases	Full Wind	120 mph w/o ice		
	Ice	50 mph w/ 3/4" radial ice		
	Service	60 mph		
Structure Criteria	Structure Classification	Class II		
	Exposure Category	С		

Existing Tower Inventory

Elevation	Quantity	Model	Mount	Lines	Size & Location
114	1	Lightening Rod	NA	NA	
110	12 6 6 3	HPA-65R-BUU-H8 RRUS-11 RRUS-12 DC-6-48-60-18	Low-profile Platform w/ rails and support struts	2 8	5/8" Fiber within monopole 5/8" DC within monopole
90	6	Stadium Lights	Collar	1	1" Conduit (assumed)
88	6	Stadium Lights			

Proposed AT&T Tower Inventory

Elevation	Quantity	Model	Mount	Lines	Size & Location
110	3	RRUS-32	Low-profile Platform w/ rails and support struts	NA	NA

Final AT&T Tower Inventory

Elevation	Quantity	Model	Mount	Lines	Size & Location
110	12 6 6 3 3	HPA-65R-BUU-H8 RRUS-11 RRUS-12 RRUS-32 DC-6-48-60-18	Low-profile Platform w/ rails and support struts	2 8	5/8" Fiber within monopole 5/8" DC within monopole

Reserved Tower Inventory

Elevation	Quantity	Model	Mount	Lines	Size & Location	
110	3	DC-6-48-60-18	Low-profile Platform w/ rails and support struts	NA	NA	
100	12	8'x1'x4" Panel 22"x14"x4" RRH	12 Platform	12	7/8" within monopole	

The following table summarizes the results of the analysis based on stresses of individual members:

Member	Capacity	Location	Results
Pole	49.8%	0-35'	Pass
Base Plate	50.6%	0'	Pass

The following table summarizes the results of the proposed foundation (factored) reactions with that of the reactions of the original design by Valmont (the previous allowable stress reactions have been multiplied by a factor of 1.35 for comparison):

Reaction	Original Design	Proposed	Percentage
Shear, K	63.7	53	83.2%

Reaction	Original Design	Proposed	Percentage
Axial, K	74.7	48	64.3%
Moment, Ft-K	6818.0	4508	66.1%

Foundation as-built information was not available nor provided for this report. Therefore, the in-place capacity of the foundation could not be verified. A more thorough and accurate assessment of the foundation capacity will require site-specific foundation information. However, since the tower reactions are below those of the original design, it is the opinion of this office that the foundation can be considered structurally adequate.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the structural analysis, it is the opinion of this office that the existing 114'± monopole located at the above-referenced address is capable of supporting the proposed AT&T LTE 3C loads without structural modifications.

LIMITATIONS AND ASSUMPTIONS

This engineering analysis is based on the theoretical capacity of the members and is not a condition assessment of the structure. This analysis is based on information supplied, and therefore, its results are based on and as accurate as that supplied data. AEG has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural stress analysis:

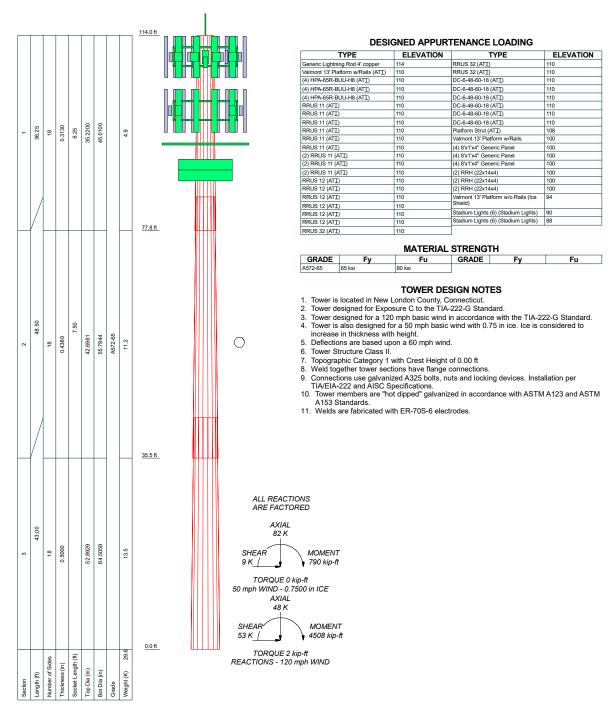
- This existing tower is assumed, for the purpose of this analysis, to have been properly maintained and to be in good condition with no structural defects and with no deterioration to its member capacities ('as-new' condition).
- The tower member sizes and configuration are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated.
- The appurtenances configuration is as supplied and/or as stated in the report. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements.
- Some assumptions are made regarding antennas and mounts sizes and their projected areas based on best interpretation of data supplied and of best knowledge of antenna type & industry practice.
- Mounts/Platforms are considered adequate to support the loading. No actual analysis of the platform/ mount itself is performed, with the analysis being limited to analyzing the structure.
- The soil parameters are as per data supplied or as assumed and stated in the calculations. Refer to the

Appendix. If no data is available, the foundation system is assumed to support the structure with its new reactions.

- All welds and connections are assumed to develop at least the member capacity, unless determined otherwise and explicitly stated in this report. All guy cable assemblies, as applicable, are assumed to develop the rated breaking strength of the wire.
- All prior structural modifications, if any, are assumed to be as per data supplied/available, and to have been properly installed and to be fully effective.

If any of the above assumptions are not valid or have been made in error, this analysis results may be invalided, AEG should be contacted to review any contradictory information to determine its effect.

APPENDIX A - Tower Schematic



Advanced Engineering Group			
	Project: AT&T LTE 3C		
East Providence, RI 02914	Client: SAI Communications	Drawn by: MRC	App'd:
Phone: 401-354-2403	Code: TIA-222-G	Date: 02/10/17	Scale: NTS
FAX:	Path: X:\RISA\CT2838 114' Monopole-ligh	Dwg No. E-1	

APPENDIX B - Photos



Existing AT&T Antennas



Existing monopole base



Overall Tower



Existing Cables

APPENDIX C - Calculations

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Tower Input Data

There is a pole section.

This tower is designed using the TIA-222-G standard.

The following design criteria apply:

Tower is located in New London County, Connecticut.

Basic wind speed of 120 mph.

Structure Class II.

Exposure Category C.

Topographic Category 1.

Crest Height 0.00 ft.

Nominal ice thickness of 0.7500 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

Weld together tower sections have flange connections..

Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications..

Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards...

Welds are fabricated with ER-70S-6 electrodes..

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Tapered Pole Section Geometry

Section	Elevation	Section	Splice	Number	Тор	Bottom	Wall	Bend	Pole Grade
	0	Length	Length	of	Diameter	Diameter	Thickness	Radius	
	Jτ	Jī	Jī	Sides	in	in	in	in	
L1	114.00-77.75	36.25	6.25	18	35.2200	45.0100	0.3130	1.2520	A572-65
									(65 ksi)
L2	77.75-35.50	48.50	7.50	18	42.6961	55.7944	0.4380	1.7520	A572-65
									(65 ksi)
L3	35.50-0.00	43.00		18	52.8929	64.5059	0.5000	2.0000	A572-65
									(65 ksi)

Tapered Pole Properties

Section	Tip Dia.	Area	I	r	С	I/C	J	It/Q	w	w/t
	in	in^2	in⁴	in	in	in^3	in⁴	in²	in	
L1	35.7633	34.6788	5338.5866	12.3920	17.8918	298.3824	10684.1978	17.3427	5.6478	18.044
	45.7044	44.4048	11207.8894	15.8674	22.8651	490.1749	22430.5263	22.2066	7.3709	23.549
L2	45.0687	58.7477	13254.0141	15.0016	21.6896	611.0768	26525.4681	29.3794	6.7436	15.396
	56.6551	76.9572	29793.5552	19.6515	28.3436	1051.1577	59626.3134	38.4859	9.0489	20.66

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Section	Tip Dia.	Area	I	r	С	I/C	J	It/Q	w	w/t
	in	in^2	in⁴	in	in	in^3	in⁴	in^2	in	
L3	55.7656	83.1475	28835.7742	18.5995	26.8696	1073.1750	57709.4912	41.5817	8.4291	16.858
	65.5010	101.5773	52574.3158	22.7221	32.7690	1604.3929	105217.810	50.7983	10.4730	20.946
							2			

Tower Elevation	Gusset Area	Gusset Thickness	Gusset Grade	$Adjust.\ Factor \ A_f$	Adjust. Factor	Weight Mult.	Stitch Bolt	Double Angle Stitch Bolt	Stitch Bolt
	(per face)				A_r		Spacing	Spacing	Spacing
fr.	G^2	in					Diagonals	Horizontals	Redundants
	Ji	in					in	in	in
L1 114.00-				1	1	1			
77.75									
L2 77.75-35.50				1	1	1			
L3 35.50-0.00				1	1	1			

Monopole Base Plate Data

Base Plate Da	ata
Base plate is square	
Base plate is grouted	
Anchor bolt grade	A615-75
Anchor bolt size	2.2500 in
Number of bolts	26
Embedment length	84.0000 in
$\mathbf{f_c}$	4 ksi
Grout space	3.0000 in
Base plate grade	A572-50
Base plate thickness	3.5000 in
Bolt circle diameter	71.8900 in
Outer diameter	79.2000 in
Inner diameter	56.0000 in
Base plate type	Plain Plate

Feed Line/Linear Appurtenances - Entered As Area

Description	Face	Allow	Component	Placement	Total		$C_A A_A$	Weight
	or	Shield	Туре		Number			
	Leg			ft			ft²/ft	plf
LDF4.5-50 (5/8 FOAM)	C	No	Inside Pole	110.00 - 4.00	2	No Ice	0.00	0.15
(AT&T Fiber)						1/2" Ice	0.00	0.15
						1" Ice	0.00	0.15
LDF4.5-50 (5/8 FOAM)	C	No	Inside Pole	110.00 - 4.00	8	No Ice	0.00	0.15
(AT&T DC)						1/2" Ice	0.00	0.15
						1" Ice	0.00	0.15
LDF5-50A (7/8 FOAM)	C	No	Inside Pole	100.00 - 4.00	12	No Ice	0.00	0.33
						1/2" Ice	0.00	0.33
						1" Ice	0.00	0.33

Feed Line/Linear Appurtenances Section Areas

Tower	Tower	Face	A_R	A_F	C_AA_A	C_AA_A	Weight
Section	Elevation				In Face	Out Face	
	ft		ft ²	ft ²	ft ²	ft ²	K

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Tower	Tower	Face	A_R	A_F	$C_A A_A$	$C_A A_A$	Weight
Section	Elevation		22	22	In Face	Out Face	
	ft		ft	ft ²	ft²	ft ^z	K
L1	114.00-77.75	Α	0.000	0.000	0.000	0.000	0.00
		В	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.14
L2	77.75-35.50	Α	0.000	0.000	0.000	0.000	0.00
		В	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.23
L3	35.50-0.00	Α	0.000	0.000	0.000	0.000	0.00
		В	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.17

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower	Tower	Face	Ice	A_R	A_F	$C_A A_A$	C_AA_A	Weight
Section	Elevation	or	Thickness			In Face	Out Face	
	ft	Leg	in	ft^2	ft^2	ft^2	ft ²	K
L1	114.00-77.75	A	1.668	0.000	0.000	0.000	0.000	0.00
		В		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.14
L2	77.75-35.50	A	1.582	0.000	0.000	0.000	0.000	0.00
		В		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.23
L3	35.50-0.00	A	1.410	0.000	0.000	0.000	0.000	0.00
		В		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.17

Shielding Factor Ka

Tower	Feed Line	Description	Feed Line	K_a	K_a
Section	Record No.		Segment Elev.	No Ice	Ice

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement		C_AA_A Front	C_AA_A Side	Weight
			vert ft ft ft	0	ft		ft²	ft²	K
Generic Lightning Rod 4' copper	С	From Face	0.00 0.00 2.00	0.0000	114.00	No Ice 1/2" Ice 1" Ice	0.50 1.00 1.50	0.50 1.00 1.50	0.00 0.00 0.00
Valmont 13' Platform w/Rails (AT&T)	C	None		0.0000	110.00	No Ice 1/2" Ice 1" Ice	53.00 68.00 83.00	53.00 68.00 83.00	2.00 3.00 4.00
(4) HPA-65R-BUU-H8 (AT&T)	A	From Face	4.00 0.00 0.00	0.0000	110.00	No Ice 1/2" Ice 1" Ice	13.06 13.68 14.28	9.77 11.22 12.29	0.11 0.20 0.31
(4) HPA-65R-BUU-H8 (AT&T)	В	From Face	4.00 0.00 0.00	0.0000	110.00	No Ice 1/2" Ice 1" Ice	13.06 13.68 14.28	9.77 11.22 12.29	0.11 0.20 0.31

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Description	Face or	Offset Type	Offsets: Horz	Azimuth Adjustment	Placement		C_AA_A Front	$C_A A_A$ Side	Weigl
	Leg		Lateral Vert	v					
			ft	0	ft		ft^2	ft^2	K
			ft ft		<i>y</i> -		J	J.	
(4) HPA-65R-BUU-H8	С	From Face	4.00	0.0000	110.00	No Ice	13.06	9.77	0.11
(AT&T)			0.00			1/2" Ice	13.68	11.22	0.20
DDIIC 11		Б Б	0.00	0.0000	110.00	1" Ice	14.28	12.29	0.31
RRUS 11 (AT&T)	Α	From Face	3.00 5.00	0.0000	110.00	No Ice 1/2" Ice	2.79 3.00	1.19 1.34	0.05
(AI&I)			0.00			1" Ice	3.21	1.50	0.07
RRUS 11	В	From Face	3.00	0.0000	110.00	No Ice	2.79	1.19	0.05
(AT&T)			5.00			1/2" Ice	3.00	1.34	0.07
			0.00			1" Ice	3.21	1.50	0.10
RRUS 11	C	From Face	3.00	0.0000	110.00	No Ice	2.79	1.19	0.05
(AT&T)			5.00			1/2" Ice	3.00	1.34	0.07
RRUS 11	A	Erom Food	0.00 3.00	0.0000	110.00	1" Ice No Ice	3.21 2.79	1.50 1.19	0.10 0.05
(AT&T)	Α	From Face	-5.00	0.0000	110.00	1/2" Ice	3.00	1.19	0.03
(AI&I)			0.00			1" Ice	3.21	1.50	0.10
RRUS 11	В	From Face	3.00	0.0000	110.00	No Ice	2.79	1.19	0.05
(AT&T)			-5.00			1/2" Ice	3.00	1.34	0.07
` '			0.00			1" Ice	3.21	1.50	0.10
RRUS 11	C	From Face	3.00	0.0000	110.00	No Ice	2.79	1.19	0.05
(AT&T)			-5.00			1/2" Ice	3.00	1.34	0.07
(A) P.D.V.C. 1.1			0.00	0.0000	110.00	1" Ice	3.21	1.50	0.10
(2) RRUS 11	A	From Face	3.00	0.0000	110.00	No Ice 1/2" Ice	2.79	1.19	0.05
(AT&T)			-5.00 0.00			1" Ice	3.00 3.21	1.34 1.50	0.07
(2) RRUS 11	В	From Face	3.00	0.0000	110.00	No Ice	2.79	1.19	0.10
(AT&T)		11011111400	-5.00	0.0000	110.00	1/2" Ice	3.00	1.34	0.07
(11141)			0.00			1" Ice	3.21	1.50	0.10
(2) RRUS 11	C	From Face	3.00	0.0000	110.00	No Ice	2.79	1.19	0.05
(AT&T)			-5.00			1/2" Ice	3.00	1.34	0.07
			0.00			1" Ice	3.21	1.50	0.10
RRUS 12	Α	From Face	3.00	0.0000	110.00	No Ice	3.15	1.29	0.05
(AT&T)			2.00			1/2" Ice	3.36	1.44	0.07
RRUS 12	В	From Face	0.00 3.00	0.0000	110.00	1" Ice No Ice	3.59 3.15	1.60 1.29	0.10 0.05
(AT&T)	ь	rioni race	2.00	0.0000	110.00	1/2" Ice	3.36	1.44	0.03
(11141)			0.00			1" Ice	3.59	1.60	0.10
RRUS 12	C	From Face	3.00	0.0000	110.00	No Ice	3.15	1.29	0.05
(AT&T)			2.00			1/2" Ice	3.36	1.44	0.07
			0.00			1" Ice	3.59	1.60	0.10
RRUS 12	A	From Face	3.00	0.0000	110.00	No Ice	3.15	1.29	0.05
(AT&T)			-2.00			1/2" Ice	3.36	1.44	0.07
RRUS 12	В	From Face	0.00 3.00	0.0000	110.00	1" Ice No Ice	3.59 3.15	1.60	0.10
(AT&T)	В	rioiii race	-2.00	0.0000	110.00	No ice 1/2" Ice	3.15	1.29 1.44	0.05
(11141)			0.00			1" Ice	3.59	1.60	0.10
RRUS 12	C	From Face	3.00	0.0000	110.00	No Ice	3.15	1.29	0.05
(AT&T)	-		-2.00			1/2" Ice	3.36	1.44	0.07
			0.00			1" Ice	3.59	1.60	0.10
RRUS 32	A	From Face	3.00	0.0000	110.00	No Ice	3.33	2.43	0.08
(AT&T)			0.00			1/2" Ice	3.57	2.65	0.11
DDIIC 22	ъ	F F	0.00	0.0000	110.00	1" Ice	3.82	2.87	0.14
RRUS 32	В	From Face	3.00	0.0000	110.00	No Ice	3.33	2.43	0.08
(AT&T)			0.00 0.00			1/2" Ice 1" Ice	3.57 3.82	2.65 2.87	0.11 0.14
RRUS 32	C	From Face	3.00	0.0000	110.00	No Ice	3.33	2.43	0.14
(AT&T)	C	1 Iom I acc	0.00	0.0000	110.00	1/2" Ice	3.57	2.65	0.00
(11121)			0.00			1" Ice	3.82	2.87	0.11

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Description	Face or	Offset Type	Offsets: Horz	Azimuth Adjustment	Placement		C_AA_A Front	C_AA_A Side	Weight
	Leg		Lateral Vert						
			ft ft	0	ft		ft^2	ft ²	K
			ft						
DC-6-48-60-18	Α	From Face	1.00	0.0000	110.00	No Ice	0.81	0.81	0.02
(AT&T)			0.00			1/2" Ice	1.30	1.30	0.04
DG (40 (0 40	-		-1.00	0.0000	110.00	1" Ice	1.48	1.48	0.05
DC-6-48-60-18	В	From Face	1.00	0.0000	110.00	No Ice	0.81	0.81	0.02
(AT&T)			0.00			1/2" Ice	1.30	1.30	0.04
DC (49 (0 19	C	F F	-1.00	0.0000	110.00	1" Ice	1.48	1.48	0.05
DC-6-48-60-18	C	From Face	1.00 0.00	0.0000	110.00	No Ice 1/2" Ice	0.81 1.30	0.81 1.30	0.02
(AT&T)			-1.00			1" Ice	1.30	1.30	0.04 0.05
DC-6-48-60-18	A	From Face	1.00	0.0000	110.00	No Ice	0.81	0.81	0.03
(AT&T)	А	rioni race	0.00	0.0000	110.00	1/2" Ice	1.30	1.30	0.02
(AI&I)			-1.00			1" Ice	1.48	1.48	0.04
DC-6-48-60-18	В	From Face	1.00	0.0000	110.00	No Ice	0.81	0.81	0.03
(AT&T)	Ь	i ioni i acc	0.00	0.0000	110.00	1/2" Ice	1.30	1.30	0.04
(11161)			-1.00			1" Ice	1.48	1.48	0.05
DC-6-48-60-18	С	From Face	1.00	0.0000	110.00	No Ice	0.81	0.81	0.02
(AT&T)	-		0.00			1/2" Ice	1.30	1.30	0.04
			-1.00			1" Ice	1.48	1.48	0.05
Platform Strut	C	None		0.0000	108.00	No Ice	2.04	1.25	0.04
(AT&T)						1/2" Ice	2.39	1.69	0.05
,						1" Ice	2.75	2.15	0.07
Valmont 13' Platform w/o	C	None		0.0000	94.00	No Ice	35.00	35.00	1.50
Rails						1/2" Ice	42.00	42.00	2.50
(Ice Shield)						1" Ice	49.00	49.00	3.50
Stadium Lights (6)	C	From Face	1.00	0.0000	90.00	No Ice	24.00	4.80	0.40
(Stadium Lights)			0.00			1/2" Ice	24.80	5.07	0.61
			0.00			1" Ice	25.61	5.35	0.83
Stadium Lights (6)	C	From Face	1.00	0.0000	88.00	No Ice	24.00	4.80	0.40
(Stadium Lights)			0.00			1/2" Ice	24.80	5.07	0.61
			0.00			1" Ice	25.61	5.35	0.83
almont 13' Platform w/Rails	C	None		0.0000	100.00	No Ice	53.00	53.00	2.00
						1/2" Ice	68.00	68.00	3.00
						1" Ice	83.00	83.00	4.00
(4) 8'x1'x4" Generic Panel	Α	From Face	4.00	0.0000	100.00	No Ice	11.47	5.24	0.04
			0.00			1/2" Ice	12.08	5.82	0.09
(A) 01 11 411 G	ъ.	Б Б	0.00	0.0000	100.00	1" Ice	12.71	6.40	0.16
(4) 8'x1'x4" Generic Panel	В	From Face	4.00	0.0000	100.00	No Ice	11.47	5.24	0.04
			0.00 0.00			1/2" Ice 1" Ice	12.08 12.71	5.82 6.40	0.09
(4) 8'x1'x4" Generic Panel	C	From Face	4.00	0.0000	100.00	No Ice	12.71	5.24	0.16 0.04
(4) 8 X1 X4 Generic Paner	С	rioni race	0.00	0.0000	100.00	1/2" Ice	12.08	5.82	0.04
			0.00			1" Ice	12.08	6.40	0.09
(2) RRH (22x14x4)	A	From Face	3.00	0.0000	100.00	No Ice	2.57	0.40	0.10
(2) IXXII (22XI4X4)	А	1 Tom Face	0.00	0.0000	100.00	1/2" Ice	2.77	0.81	0.03
			0.00			1" Ice	2.77	1.11	0.07
(2) RRH (22x14x4)	В	From Face	3.00	0.0000	100.00	No Ice	2.57	0.81	0.05
(2) 10011 (22/17/17)	ט	1 10111 1 acc	0.00	0.0000	100.00	1/2" Ice	2.77	0.81	0.03
			0.00			1" Ice	2.98	1.11	0.08
(2) RRH (22x14x4)	C	From Face	3.00	0.0000	100.00	No Ice	2.57	0.81	0.05
(·/(- - ····)	-		0.00			1/2" Ice	2.77	0.96	0.07
			0.00			1" Ice	2.98	1.11	0.08

Advanced Engineering Group

500 North Broadway
East Providence, RI 02914
Phone: 401-354-2403
FAX:

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Project		Date
	AT&T LTE 3C	12:21:17 02/10/17
Client	SAI Communications	Designed by MRC

Base Plate Design Data

Plate	Number	Anchor Bolt	Actual	Actual	Actual	Actual	Controlling	Ratio
Thickness	of Anchor Bolts	Size	Allowable Ratio Bolt	Allowable Ratio Bolt	Allowable Ratio Plate	Allowable Ratio Stiffener	Condition	
			Tension	Compression	Stress	Stress		
in		in	K	K	ksi	ksi		
3.5000	26	2.2500	113.22	116.76	18.059		Bolt T	0.51
			223.65	371.27	45.000			0.51
			0.51	0.31	0.40			

Compression Checks

Pole Design Data

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	$Ratio$ P_u
	ft		ft	ft		in^2	K	K	ϕP_n
L1	114 - 77.75 (1)	TP45.01x35.22x0.313	36.25	114.00	89.6	42.7279	-15.33	1195.40	0.013
L2	77.75 - 35.5 (2)	TP55.7944x42.6961x0.438	48.50	114.00	72.3	74.1413	-28.23	2870.08	0.010
L3	35.5 - 0 (3)	TP64.5059x52.8929x0.5	43.00	114.00	60.2	101.577	-47.77	4671.81	0.010
						0			

Pole Bending Design Data

Section No.	Elevation	Size	M_{ux}	ϕM_{nx}	$Ratio$ M_{ux}	M_{uy}	ϕM_{ny}	$Ratio$ M_{uy}
	ft		kip-ft	kip-ft	ϕM_{nx}	kip-ft	kip-ft	ϕM_{ny}
L1	114 - 77.75 (1)	TP45.01x35.22x0.313	697.20	2546.07	0.274	0.00	2546.07	0.000
L2	77.75 - 35.5 (2)	TP55.7944x42.6961x0.438	2395.57	5710.07	0.420	0.00	5710.07	0.000
L3	35.5 - 0 (3)	TP64.5059x52.8929x0.5	4507.92	9237.00	0.488	0.00	9237.00	0.000

Pole Shear Design Data

Section No.	Elevation	Size	$Actual\ V_u$	ϕV_n	$Ratio$ V_u	Actual T _u	ϕT_n	$Ratio$ T_u
	ft		K	K	ϕV_n	kip-ft	kip-ft	ϕT_n
L1	114 - 77.75 (1)	TP45.01x35.22x0.313	37.60	1438.59	0.026	0.00	5098.36	0.000
L2	77.75 - 35.5 (2)	TP55.7944x42.6961x0.438	45.26	2604.31	0.017	0.00	11434.08	0.000
L3	35.5 - 0 (3)	TP64.5059x52.8929x0.5	52.74	3508.88	0.015	0.00	18496.58	0.000

Pole Interaction Design Data

4				
Th	V	To	142	o r
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Advanced Engineering Group

500 North Broadway
East Providence, RI 02914
Phone: 401-354-2403
FAX:

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Project		Date
	AT&T LTE 3C	12:21:17 02/10/17
Client	SAI Communications	Designed by MRC

Section No.	Elevation	Ratio P_u	$Ratio \ M_{ux}$	$Ratio$ M_{uy}	$Ratio$ V_u	Ratio T_u	Comb. Stress	Allow. Stress	Criteria
	ft	ϕP_n	ϕM_{nx}	ϕM_{ny}	ϕV_n	ϕT_n	Ratio	Ratio	
L1	114 - 77.75 (1)	0.013	0.274	0.000	0.026	0.000	0.287	1.000	4.8.2
L2	77.75 - 35.5 (2)	0.010	0.420	0.000	0.017	0.000	0.430	1.000	4.8.2
L3	35.5 - 0 (3)	0.010	0.488	0.000	0.015	0.000	0.498	1.000	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	${\stackrel{\mathscr{O}P_{allow}}{K}}$	% Capacity	Pass Fail
L1	114 - 77.75	Pole	TP45.01x35.22x0.313	1	-15.33	1195.40	28.7	Pass
L2	77.75 - 35.5	Pole	TP55.7944x42.6961x0.438	2	-28.23	2870.08	43.0	Pass
L3	35.5 - 0	Pole	TP64.5059x52.8929x0.5	3	-47.77	4671.81	49.8	Pass
							Summary	
						Pole (L3)	49.8	Pass
						Base Plate	50.6	Pass
						RATING =	50.6	Pass

Program Version 7.0.7.0 - 7/18/2016 File:X:/RISA/CT2838 114' Monopole-light pole.eri

SCCOG February 7, 2017



Property Information

Property ID

95-B11-220-1

Location Owner 490 JEFFERSON AVE NEW LONDON CITY OF



MAP FOR REFERENCE ONLY NOT A LEGAL DOCUMENT

SCCOG makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Parcels updated 01/11/2017 Properties updated 10/1/2013

490 JEFFERSON AVE

Location 490 JEFFERSON AVE **Mblu** B11/ 220/ 1//

Acct# B11 0220 0001 Owner NEW LONDON CITY OF

Assessment \$32,814,740 **Appraisal** \$46,878,200

PID 5464 Building Count 6

Current Value

Appraisal			
Valuation Year Improvements Land Total			
2013	\$36,994,500	\$9,883,700	\$46,878,200
Assessment			
Valuation Year	Improvements	Land	Total
2013	\$25,896,150	\$6,918,590	\$32,814,740

Owner of Record

 Owner
 NEW LONDON CITY OF
 Sale Price
 \$0

 Co-Owner
 HIGH SCHOOL
 Certificate

 Address
 JEFFERSON AVE
 Book & Page
 323/ 008

 NEW LONDON, CT 06320
 Sale Date
 01/01/1700

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
NEW LONDON CITY OF	\$0		323/ 008	01/01/1700

Building Information

Building 1 : Section 1

 Year Built:
 1960

 Living Area:
 1,825

 Replacement Cost:
 \$408,696

Building Percent

Good:

Replacement Cost

Less Depreciation: \$253,400

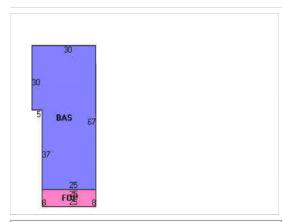
Building Attributes		
Field Description		
STYLE	Schools-Public	
MODEL Commercial		

Building Photo

Grade	Good
Stories:	1
Occupancy	1
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Coal or Wood
Heating Type	None
AC Type	None
Bldg Use	MUNICIPAL MDL-94
Total Rooms	
Total Bedrms	00
Total Baths	0
Conv Type	
1st Floor Use:	903I
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & MIN WL
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	0



Building Layout



	Building Sub-Areas (sq ft) <u>Legend</u>		
Code	Description	Gross Area	Living Area
BAS	First Floor	1,825	1,825
FOP	Porch, Open, Finished	200	0
		2,025	1,825

Building 2 : Section 1

 Year Built:
 1972

 Living Area:
 119,800

 Replacement Cost:
 \$23,199,531

Building Percent 58

Good:

Replacement Cost

Less Depreciation: \$13,455,700

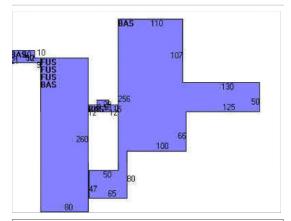
Building Attributes : Bldg 2 of 6		
Field	Description	
STYLE	Schools-Public	
MODEL	Commercial	
Grade	Good	
Stories:	4	
Occupancy	1	
Exterior Wall 1	Brick/Masonry	

Building Photo



Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	Central
Bldg Use	MUNICIPAL MDL-94
Total Rooms	
Total Bedrms	00
Total Baths	0
Conv Type	
1st Floor Use:	903C
Heat/AC	HEAT/AC PKGS
Frame Type	STEEL
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	20

Building Layout



Building Sub-Areas (sq ft) <u>Lege</u>			<u>Legend</u>
Code	Description	Gross Area	Living Area
FUS	Upper Story, Finished	62,400	62,400
BAS	First Floor	57,400	57,400
		119,800	119,800

Building 3 : Section 1

Year Built: 1972 Living Area: 17,600 Replacement Cost: \$1,530,320 Building Percent 92

Good:

Replacement Cost

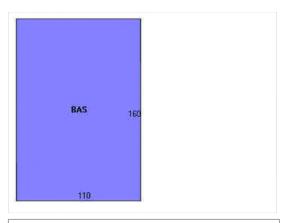
Less Depreciation: \$1,407,900

Building Attributes : Bldg 3 of 6	
Field	Description
STYLE	Commercial
MODEL	Commercial
Grade	Ave/Good
Stories:	1
Occupancy	1
Exterior Wall 1	Pre-finsh Metl
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Drywall/Sheet
Interior Wall 2	

Building Photo



Vinyl/Asphalt
Gas
Forced Air-Duc
Central
MUNICIPAL MDL-94
00
0
903C
HEAT/AC PKGS
STEEL
AVERAGE
CEIL & WALLS
AVERAGE
20
2



Building Sub-Areas (sq ft) <u>Legence</u>			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	17,600	17,600
		17,600	17,600

Building 4 : Section 1

Year Built: 1972 Living Area: 14,980 Replacement Cost: \$3,586,661 Building Percent 58

Good:

Replacement Cost

Less Depreciation: \$2,080,300

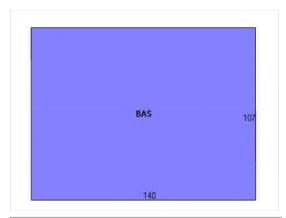
Building Attributes : Bldg 4 of 6	
Field	Description
STYLE	Schools-Public
MODEL	Commercial
Grade	Good
Stories:	1
Occupancy	1
Exterior Wall 1	Brick/Masonry
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Hardwood
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	Central

Building Photo



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Bldg Use	MUNICIPAL MDL-94
Total Rooms	
Total Bedrms	00
Total Baths	0
Conv Type	
1st Floor Use:	903C
Heat/AC	HEAT/AC PKGS
Frame Type	STEEL
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	20
% Comn Wall	50



Building Sub-Areas (sq ft)			<u>Legend</u>
Code Description		Gross Area	Living Area
BAS	First Floor	14,980	14,980
		14,980	14,980

Building 5 : Section 1

Year Built: 1972 Living Area: 11,408 **Replacement Cost:** \$3,393,823 58

Building Percent

Good:

Replacement Cost

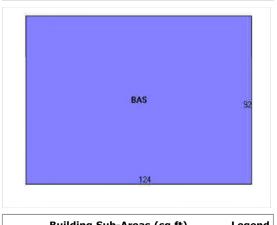
Less Depreciation: \$1,968,400

Building Attributes : Bldg 5 of 6		
Field	Description	
STYLE	Schools-Public	
MODEL	Commercial	
Grade	Excellent	
Stories:	1	
Occupancy		
Exterior Wall 1	Brick/Masonry	
Exterior Wall 2		
Roof Structure	Flat	
Roof Cover	Tar & Gravel	
Interior Wall 1	Drywall/Sheet	
Interior Wall 2		
Interior Floor 1	Vinyl/Asphalt	
Interior Floor 2		
Heating Fuel	Gas	
Heating Type	Forced Air-Duc	
AC Type	Central	
Bldg Use	MUNICIPAL MDL-94	
Total Rooms		
Total Bedrms	00	

Building Photo



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Building Sub-Areas (sq ft) <u>Legend</u>

Total Baths	0
Conv Type	
1st Floor Use:	903C
Heat/AC	HEAT/AC PKGS
Frame Type	FIREPRF STEEL
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	20
% Comn Wall	40

Code	Description	Gross Area	Living Area
BAS	First Floor	11,408	11,408
		11,408	11,408

Building 6 : Section 1

 Year Built:
 2005

 Living Area:
 135,000

 Replacement Cost:
 \$18,982,269

Building Percent 88

Good:

Replacement Cost

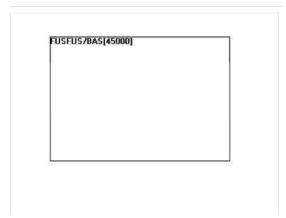
Less Depreciation: \$16,704,400

Building Attributes : Bldg 6 of 6			
Field	Description		
STYLE	School/College		
MODEL	Commercial		
Grade	Custom		
Stories:	2		
Occupancy	1		
Exterior Wall 1	Brick/Masonry		
Exterior Wall 2	Pre-finsh Metl		
Roof Structure	Flat		
Roof Cover	Rolled Compos		
Interior Wall 1	Drywall/Sheet		
Interior Wall 2			
Interior Floor 1	Average		
Interior Floor 2			
Heating Fuel	Gas		
Heating Type	Forced Air-Duc		
AC Type	Central		
Bldg Use	MUN POLICE		
Total Rooms			
Total Bedrms			
Total Baths			
Conv Type			
1st Floor Use:			
Heat/AC	HEAT/AC PKGS		
Frame Type	FIREPRF STEEL		

Building Photo



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	<u>Legend</u>		
Code	Code Description		Living Area
FUS	Upper Story, Finished	90,000	90,000
BAS	First Floor	45,000	45,000
		135,000	135,000

Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	0

Extra Features

Extra Features <u>Leg</u> e				
Code	Description	Size	Value	Bldg #
GEN	GENERATOR BACKUP	1 UNITS	\$900	3
SPR1	SPRINKLERS-WET	90000 S.F.	\$79,200	6
CNP1	CANOPY-AVG	3600 S.F.	\$67,000	1
ELV1	Elevator, Pass	2 UNITS	\$92,800	2
ELS1	Pass Stops	7 UNITS	\$15,200	2

Land

Land Use Land Line Valuation				
Use Code	903C	Size (Acres)	49.32	
Description	MUNICIPAL MDL-94	Frontage	0	
Zone	R-3	Depth	0	
Neighborhood	JEF1	Assessed Value	\$6,918,590	
Alt Land Appr	No	Appraised Value	\$9,883,700	
Category				

Outbuildings

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FN4	FENCE-8' CHAIN			600 L.F.	\$4,200	1
GRN2	COMM GLASS			600 S.F	\$6,300	6
PAV1	PAVING-ASPHALT			40000 S.F.	\$60,000	2
TEN	TENNIS COURT			1 UNIT	\$35,800	3
LT1	LIGHTS-IN W/PL			12 UNITS	\$6,500	2
SHD1	SHED FRAME			280 S.F.	\$1,700	1
BHS2	CMM BTH HSE GD			4200 S.F.	\$100,800	6
LT2	W/DOUBLE LIGHT			6 UNITS	\$5,000	2
SHD1	SHED FRAME			160 S.F.	\$1,000	1
FN1	FENCE-4' CHAIN			400 L.F.	\$1,600	1
LT12	W/FOUR LIGHTS			8 UNITS	\$22,200	2
GRN2	COMM GLASS			600 S.F	\$100,000	1
FF	FOOTBALL NAT			57600 S.F.	\$149,800	1
FF1	FOOTBALL ARTIFIC			57600 S.F.	\$374,400	1

Valuation History

Appraisal					
Valuation Year Improvements Land Total					
2015	\$36,994,500	\$9,883,700	\$46,878,200		
2014	\$36,994,500	\$9,883,700	\$46,878,200		
2013	\$36,994,500	\$15,116,200	\$52,110,700		

Assessment			
Valuation Year	Improvements	Land	Total
2015	\$25,896,150	\$6,918,590	\$32,814,740
2014	\$25,896,150	\$6,918,590	\$32,814,740
2013	\$25,896,150	\$10,581,340	\$36,477,490

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