AFF Consulting, LLC 21 Ridgecrest Drive Napa, California 94558 Tel: 813-220-0077

February 14, 2018

Melanie A. Bachman, Esq. Executive Director/Staff Attorney Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

RE: Notice of Modification Exemption – Facility Modification Rattlesnake Mountain (near 200 Colt Highway, Rte. 6) Farmington, CT 06032

Dear Ms. Bachman,

NBC Telemundo License LLC c/o ("NBC Universal") currently maintains a single broadcast antenna located on the 1000' guyed tower of Highway 166 in Farmington, Connecticut ("the property"). The tower is owned by: Outlet Broadcasting Inc c/o NBC Universal, Washington DC 20001. It is unknown if this was previously approved by the Council as it first went on air in 1953. NBC Universal intends to replace the broadcast antenna with a like-for-like shape and size broadcast antenna at the same level on the tower. This is simply a technology change as the Federal Communication Commission ("FCC") has asked for the frequency currently used to be returned and reassigned to another wireless provider. Included in Attachment 1 are the specifications for NBC Universal's replacement antenna.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes and exemption pursuant to the 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 sent to Kathleen A. Eagen, Town Manager of Farmington, William Warner, Farmington Planning Manager, Outlet Broadcasting Inc, the tower and property owner.

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

 The proposed modifications will not result in an increase in height of the existing tower. NBC Universal's replacement antenna will be installed at the same elevation at the top of the existing tower. Melanie A Bachman, Esq. February 14, 2018 Page 2

- 2. The proposed modifications will not involve any change to ground based equipment as the equipment swap will be like-for-like in the same existing equipment building and, therefore, 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 antenna will not increase radio frequency (RF) emissions at the facility to a level at or above the "FCC" safety standards. NO General Power Density study is being provided as the antennas are so far removed from the ground, levels are far below federal or local standards
- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. The tower and its foundation, with certain modifications described in the Structural Analysis Report included in <u>Attachment 2</u>, can support NBC Universal's proposed modifications.

A copy of the parcel map and owner information for the "Property" is included in <u>Attachment 3</u>. A Certification of mailing verifying that this filing was sent to municipal officials and the owner of the "Property" in included in <u>Attachment 4</u>.

For the foregoing reasons, NBC Universal submits that this proposed modification to the above reference broadcast communications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72 (b)(2).

Sincerely,

a. Den

Anthony F. Flores

Enclosures

Copy to:

Kathleen A Eagen, Farmington Town Manager William Warner, Farmington Planning Manager Outlet Broadcasting, Inc., Tower and Property Owner

FEB I:\18

		A, AMP A/C, AC	AMPERE AIR CONDITIONING	EMT FQUIP	ELEC METAL TUBING
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		AFG	ABOVE FINISHED GRADE	EVAP	EVAPORATOR
		ALUM.	ALUMINUM	F.D.	
R	A SECTION LETTER/NUMBER	APPROX.	ΑΡΡΚΟΧΙΜΑΤΕ ΔΡΟΗΙΤΕΟΤΗΡΑΙ	FL.	FLOOR
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	NOTEC:	ČRÁC	COMPUTER_ROOM	İN	INCH OR INCHES
	NOTLS.	ст		INSUL.	INSULATION
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	ABBREVIATIONS LISTED HERE ARE	DISC.	DISCONNECT	INDIC.	INDICATOR
	CONTAINED IN THESE DOCUMENTS. :	DEG.		INT.	
	2. SUBMISSION DATES INDICATE	DIA.	DIAMETER	JAN.	JANITOR
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	F.S. = FINAL SUBMISSION	EL.	ELEVATION		
	P.F.S. = PRE-FINAL SUBMISSION	ELEC.	ELECTRIC	MACH.	MACHINE
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		EQ.	EQUAL	MAX	MAXIMUM
		EXPAN.	EXPANSION	MECH	MECHANICAL

DRAWINGS LIST N.T.S.

STRUCTURAL

DRAWINGS TITLE

SITE SURVEY SHEET 1

SITE SURVEY SHEET 2

SITE SURVEY SHEET 3

ANTENNA PLAN AND ELEVATIONS

GENERAL NOTES

TITLE SHEET LOCATION MAP & DRAWING LIST

SUBMISSION DATE: (2018)

**|**-

ABBREVIATIONS:

2

02/13 - - -

DRAWING NO. SHT. NO. BUILDING(S)

6

SYMBOLS:

T-101.00

T-001.00

S-100.00

S-200.00

S-300.00

S-101.00

С

# ANTENNA MODIFICATIONS AT 200 COLT HIGHWAY FARMINGTON, CT 06032 FOR WVIT TV

**ISSUED FOR PERMIT** FEBRUARY 13, 2018

	PROJECT DESCRIPTION	
METER N MINIMUM M MILIMETER OIST. MOISTURE TL. METAL FT. MANUFACTURER O. MASONRY OPENING TD. MOUNTED JL. MULLION OM. NOMINAL C NORMALLY CLOSED EC NATIONAL ELEC CODE C NOT IN CONTRACT O NORMALLY OPEN TS NOT TO SCALE /C MULTI-COND. CABLE BD OPPOSED BLADE DAMPER C. ON CENTER A.I. OUTSIDE AIR INTAKE FF. OFFICE H. OVERHEAD PG. OPENING POLE ART. PARTITION AVE. PAVEMENT DU POWER DISTRIBUTION UNIT L. PLATE TD. PAINTED /C. POLYVINYL CHLORIDE	<ul> <li>THIS PROJECT CONSISTS OF:</li> <li>1. MOBILIZATION OF TOWER CREW TO THE PROJECT SITE.</li> <li>2. RIGGING OF TOWER.</li> <li>3. PERFORM ALL REQUIRED TOWER SHAFT MODIFICATION.</li> <li>4. PERFORM ALL TOWER BASE MODIFICATIONS.</li> <li>5. REMOVE EXISTING TOP MOUNTED DIELECTRIC MODEL TFU-28G BROADCAST ANTENNA.</li> <li>6. INSTALL NEW TOP MOUNTED DIELECTRIC NEW TOP MOUNTED MODEL TFU-20ETT / VP-R 06 BROADCAST ANTENNA.</li> <li>7. COMPLETION OF ALL WORK IN ACCORDANCE WITH DESIGN DRAWINGS BY STAINLESS DATED NOVEMBER 30, 2017 (DESIGN DRAWINGS 1106.0' GUYED G7 TOWER, NEW BRITAIN, CT).</li> <li>8. DE-RIG AND DEMOBILIZE FROM SITE.</li> </ul>	Siverside Cemetery Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck River Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuck Pequabuc
NL       PANEL         NR       POWER         A       RETURN AIR         A.G.       RETURN AIR GRILLE         AD.       RADIUS         EBAR.       REINFORCING BAR         EF.       REFERENCE         EFL.       REFLECTED         EINF.       REINFORCED         EQD.       REQUIRED         GS       RIGID GALVANIZED STL         M       ROOM         A.       SUPPLY AIR         MBD       SWITCHBOARD         NGR       SWITCHGEAR         M       SVMMETRICAL         EMP       TEMPERATURE         (P)       TYPICAL         DN       UNLESS OTHERWISE NOTED         TIL.       UTILITY         W.F.       WELDED WIRE FABRIC         VOLT       VINYL BASE         CT       TILE VINYL COMPOSITION         .G.       WATER GAUGE         MFR       TRANSFORMER	CODE COMPLIANCE PURSUANT TO CONNECTICUT GENERAL STATUTE 29–252, AS AMENDED BY PUBLIC ACT 16–215, THE FOLLOWING NATIONAL MODEL CODES, AS AMENDED HEREIN, ARE ADOPTED AND SHALL BE KNOWN AS THE 2016 CONNECTICUT STATE BUILDING CODE 2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 2012 INTERNATIONAL EXISTING BUILDING CODE 2012 INTERNATIONAL EXISTING BUILDING CODE 2012 INTERNATIONAL PLUMBING CODE 2012 INTERNATIONAL PLUMBING CODE 2012 INTERNATIONAL ENERGY CONSERVATION CODE 2012 INTERNATIONAL ENERGY CONSERVATION CODE 2012 INTERNATIONAL ELECTRICAL CODE, OF THE NATIONAL FIRE PROTECTION ASSOCIATION INC. 2012 INTERNATIONAL RESIDENTIAL CODE OF THE INTERNATIONAL CODE COUNCIL INC. ANSI/TIA 222 REV G TOWER STANDARD AND THE ANSI/TIA 322 RIGGING STANDARD	eotteiner

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T.N. TOE NAIL

T.O.A. TOP OF ANTENNA

T.O.F. TOP OF FOUNDATION

T.O.P. TOP OF PLATE(PARAPET)

U.L. UNDERWRITES LABORATORY

U.N.O. UNLESS NOTED OTHERWISE

T.O.C. TOP OF CURB

T.O.S. TOP OF STEEL

T.O.W. TOP OF WALL

U.G. UNDER GROUND

V.I.F. VERIFY IN FIELD

W.P. WEATHERPROOF

PLATE

CENTERLINE

WITH

WD. WOOD

WIDE(WIDTH)

TYP. TYPICAL

W

GROUND FAULT CIRCUIT INTERRUPTER WT. WEIGHT

В

FAB.

F.G.

FLR.

FDN.

F.O.C.

F.O.M.

F.O.S.

F.O.W.

FT.(')

F.S.

FTG.

GA.

G.F.I.

GPS

F.F.

FIN.

FABRICATION(OR)

FACE OF CONCRET

FACE OF MASONRY

FACE OF STUD

FACE OF WALL

FINISH SURFACE FOOT(FEET)

GROWTH(CABINET

GLOBAL POSITIONING SYSTEM

FINISH FLOOR

FINISH GRADE

FINISH(ED)

FOUNDATION

FLOOR

FOOTING

GAUGE

GALVANIZE(D

GLB.(GLU-GAME LAMINATED BEAM

C

 $\mathbf{\Omega}$ 

# CTION NOTES

RCHITECT/ENGINEER, AND REPRESENTATIVES OF THE TIED AT LEAST TWO FULL DAYS PRIOR TO

OR DISTURB BEYOND THE PROPERTY LINES OR LEASE

JILDING DIMENSIONS FROM DRAWINGS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK TYPE OF ANY UNDERGROUND UTILITIES OR BE ACCURATELY NOTED AND PLACED ON WINGS BY GENERAL CONTRACTOR AND ISSUED TO

TIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS VE BEEN PLOTTED FROM AVAILABLE RECORDS. THE AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER CY OR ACCURACY OF THE INFORMATION SHOWN ON THE R OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR E FOR DETERMINING EXACT LOCATION OF ALL EXISTING S PRIOR TO START OF CONSTRUCTION. CONTRACTOR ROM EACH UTILITY COMPANY DETAILED INFORMATION SCHEDULES AND METHODS OF REMOVING OR

VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY TO START OF CONSTRUCTION. ANY DISCREPANCIES E INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY CHITECT/ENGINEER FOR RESOLUTION AND FURTHER WORK SHALL BE PERFORMED UNTIL THE KED AND CORRECTED BY THE ARCHITECT/ENGINEER. SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE OWN RISK AND EXPENSE. CONTRACT SHALL CALL LOCAL UTILITY LOCATIONS 48 HOURS PRIOR TO START OF

STING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE RUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS

ARTMENT ISSUING THE BUILDING PERMIT SHALL BE O WORKING DAYS PRIOR TO THE COMMENCEMENT OF TED BY THE CODE ENFORCEMENT OFFICIAL HAVING

SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN THER INTO EXISTING GRADES AT THE GRADING LIMITS. EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE

ATIONAL SAFETY AND HEALTH ADMINISTRATION(OSHA) SUPPORTING PAVEMENTS SHALL BE COMPACTED TO

ANDARD PROCTOR DRY DENSITY. IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO

NG WITH APPROVED CLEAN FILL AND COMPACTED TO OCTOR DENSITY.

BE PLACED IN UNIFORM LIFTS. THE LIFT'S THICKNESS THAT WHICH CAN BE PROPERLY COMPACTED RE DEPTH WITH THE EQUIPMENT AVAILABLE.

ED ON EXISTING SLOPES THAT ARE STEEPER THAN 10 ICAL SHALL BE PROPERLY BENCHED INTO THE RECTED BY A GEOTECHNICAL ENGINEER.

IN THE FENCED-IN AREA TO BE ACHIEVED BY LL TO A DENSITY OF 90% OF STANDARD PROCTOR VITH 6 MIL. VISQUENE (L' OVERLAP AT SEAMS) FOR THEN ACHIEVING FINISH GRADE BY ADDING 6" OF 3/4"

LL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH SH, WEEDS, BRUSH OR ANY OTHER DEPOSITS WILL COLLECTED DURING CLEANING OPERATIONS SHALL -SITE BY THE GENERAL CONTRACTOR.

SHRUBS WHICH ARE NOT IN DIRECT CONFLICT ITS SHALL BE PROTECTED BY THE GENERAL

TRUCTION, GRADING AND DRAINAGE WORK SHALL STATE OF TRANSPORTATION "STANDARD E ROAD AND BRIDGE CONSTRUCTION ", LATEST PLICABLE PROVISIONS OR LOCAL COUNTY

SHALL BE CAREFULLY COORDINATED BY GENERAL CAL UTILITY COMPANY, TELEPHONE COMPANY, AND OMPANIES HAVING JURISDICTION OVER THIS

TO VERIFY ALL FIELD EXISTING TO COMMENCEMENT OF PROJECT.

# DRAWING SPECIFICATIONS

1- THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201, "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN

2- THIS FACILITY IS AN UNOCCUPIED TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

3- THE DRAWINGS SHALL NOT BE SCALED. FIGURED DIMENSIONS HAVE PRECEDENCE OVER THE DRAWING SCALE, DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. THE CONTRACTOR SHALL CHECK THE ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED DO NOT FABRICATE ANY MATERIALS OR BEGIN OR FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL ANY MATERIALS OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF THE DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS

> 4- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE PROJECT MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK

5- THE DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN . MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS . SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK

6- REPRESENTATIONS OF THE TRUE NORTH, OTHER THAN FOUND ON THE PLOT OF THE SURVEY DRAWING , SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH . THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF THE SURVEY DRAWING AND ANY SURVEYOR MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH . IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK . THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.

7- THESE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION

8- THE INTENTION OF THE DOCUMENT IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT

9- THE PURPOSE OF THE SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE AND QUALITY OF MATERIALS REQUIRED TO COMPLETE THE WORK

10- MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK . NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER

11- GENERAL ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, THE CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

# CONTRACTOR SPECIFICATIONS

1- PRIOR TO THE SUBMISSION OF BIDS, THE PARTICIPATING CONTRACTORS SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT, WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS , FIELD CONDITIONS, AND CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN , PRIOR TO SUBMISSION OF BIDS AND CONSTRUCTION . SHOULD ANY ERRORS . OMISSIONS . OR DISCREPANCIES BE FOUND . THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND THE ARCHITECT/ ENGINEER , IN WRITING . IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE . IF A DISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT , ENGINEER ARE NOT NOTIFIED . THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.

2- EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION . IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND THE ARCHITECT / ENGINEER, SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK .

3- THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND THE ARCHITECT / ENGINEER IF ANY OF THE DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOFED, OR NOT WITHIN CUSTOMARY TRADE PRACTICE . IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THAT THERE IS NO OBJECTION TO ANY DETAIL . THE DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS AND SHALL BE INCLUDED AS PART OF THE WORK

4- THE CONTRACTOR SHALL OBTAIN, IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS .

5- ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

6- THE CONTRACTOR AND SUBCONTRACTORS SHALL COMPLY WITH ALL LOCAL CODES, REGULATIONS, AND ORDINANCES, AS WELL AS, STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.

7- THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A DETAILED RIGGING PLAN IN ACCORDANCE WITH THE ANSI/ TIA 322 RIGGING STANDARD AND THE ANSI/ ASSE A10.48-2016 SAFETY STANDARD

PRECEDENCE

IN THE COST OF THE WORK

CONTRACTOR

THIS CONTRACT. REQUIRING THE SAME

PROCEEDING

UNLESS OTHERWISE NOTED. **REQUIREMENTS.** 

EACH DAY.

. STAMPED BUILDING PERMIT PLANS SWEEP TEST CONCRETE TEST I. SUBCONTRACTOR CONTACT LIST

L. SITE COMPLETION PHOTOS

8. THE WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:

9- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION . UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE

10- ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY THE GENERAL CONTRACTOR WITH LOCAL ELECTRICAL COMPANY, TELEPHONE COMPANY AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION 11- THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS , LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE

12- THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK USING HIS BEST SKILL AND ATTENTION . HE SHALL SOLELY BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT

13- THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, PROTECT MANAGER AND THE CARRIERS PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION ANY DAMAGE TO NEW AND EXISTING CONSTRUCTION STRUCTURE LANDSCAPING, CURBS, STAIRS, EQUIPMENT, ETC, SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROJECT MANAGER, THE PROPERTY OWNER, OR THE OWNERS REP. AT THE EXPENSE OF THE

14- THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE OR REMEDY , ANY FAULTY IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP , OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY CLIENT OR ITS REPRESENTATIVES, UNDER

15- THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORTS FOR ALL ITEMS

16- PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/ FLASHED AND MADE WATERTIGHT USING MATERIALS IN ACCORDANCE WITH RCA ROOFING STANDARD AND DETAILS. THE CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION FOR SITE-SPECIFIC CONDITIONS FROM THE ARCHITECT/ENGINEER, IF NECESSARY, BEFORE

17- THE CONTRACTOR SHALL CONTACT U.S.A UNDERGROUND BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK, OR CONSTRUCTION. 18- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES,

19- ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC.. SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

20- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES. WHETHER SHOWN HEREIN OR NOT. AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.

21- THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER, THE PROJECT MANAGER, AND THE CITY OR GOVERNING AGENCY.

22 - THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIAL ON A DAILY BASIS AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEANUP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF

23- ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION, AND IN A MANNER THAT DOES NOT UNNECESSARILY OBSTRUCT THE FLOW OF OTHER WORK. IN ADDITION, STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER

24- THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.

25- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY THE PROJECT MANAGER.

26- THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY THE WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR MUST ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT. 27- THE CONTRACTOR SHALL PROVIDE A CLOSE-OUT PACKAGE TO THE PROJECT MANAGER, WHICH WILL INCLUDE:

A. BUILDING PERMITS/ELECTRICAL PERMITS B. FINAL INSPECTION CARD

. GROUNDING TEST

G. SPECIAL INSPECTION REPORTS H. WARRANTIES, MANUAL, EQUIPMENT SPECIFICATIONS

J. REDLINED AS-BUILTS K. CONSTRUCTION PROCESS PHOTOS

M. A WRITTEN REPORT ON ANTENNA SERIAL NUMBER FOR EACH SECTOR N. MANUFACTURER'S PERFORMANCE REPORT FOR EACH ANTENNA 28- CONTRACTOR TO CALL USA UNDERGROUND AT LEAST TWO DAYS PRIOR TO COMMENCING ANY UNDERGROUND WORK AT 1-800-227-2600.

## ENGINEERING REQUIREMENTS

1. ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED 2 . SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L LISTED OR FIRE MARSHALL APPROVED MATERIALS IF AND WHERE APPLICABLE TO THIS FACILITY AND PROJECT SITE.

3 . ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS, AT WALL AND ROOF PENETRATIONS, SHALL BE CAULKED OR SEALED TO LIMIT INFILTRATION OF AIR AND MOISTURE. 4. THE ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250 AND 810.

5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND LISTED IN THESE DRAWINGS TO THE PROJECT MANAGER FOR APPROVAL. ALL SHOP DRAWINGS SHALL BE REVIEWED, CHECKED AND CORRECTED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE PROJECT MANAGER. 6. THE CONTRACTOR SHALL SUBMIT THREE COPIES OF EACH REQUEST FOR SUBSTITUTIONS. IN EACH REQUEST, IDENTIFY THE PRODUCT, FABRICATION OR INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION. INCLUDE RELATED SPECIFICATION SECTION AND DRAWING

NUMBERS AND COMPLETE DOCUMENTATION SHOWING COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS. 7. THE CONTRACTOR SHALL SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS. PRODUCTS AND MATERIALS BEING INSTALLED. THE CONTRACTOR SHALL, IF DEEMED NECESSARY BY THE PROJECT MANAGER, SUBMIT ACTUAL SAMPLES TO ZON ARCHITECTS, INC. FOR APPROVAL, IN LIEU OF CUT SHEETS.

8. CHANGE ORDERS MAY BE INITIATED BY THE PROJECT MANAGER AND/OR THE CONTRACTOR INVOLVED. THE CONTRACTOR, UPON VERBAL REQUEST FROM THE PROJECT MANAGER, SHALL PREPARE A WRITTEN PROPOSAL DESCRIBING THE CHANGE IN WORK OR MATERIALS AND ANY CHANGES IN THE CONTRACT AMOUNT AND PRESENT IT TO THE PROJECT MANAGER WITHIN SEVENTY-TWO HOURS FOR APPROVAL. SUBMIT REQUESTS FOR SUBSTITUTIONS IN THE FORM AND IN ACCORDANCE WITH PROCEDURES REQUIRED FOR CHANGE ORDER PROPOSALS. ANY CHANGES IN THE SCOPE OF WORK OR MATERIALS WHICH ARE PERFORMED BY THE CONTRACTOR WITHOUT A WRITTEN CHANGE ORDER PROPOSALS. ANY CONTRACTOR WITHOUT A WRITTEN CHANGE ORDER AS DESCRIBED AND APPROVED BY THE PROJECT MANAGER SHALL PLACE FULL RESPONSIBILITY OF THESE ACTIONS ON THE CONTRACTOR. 9. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL FABRICATED MATERIALS WHICH SHALL BE REVIEWED BY STRUCTURAL ENGINEER OF

## GENERAL REQUIREMENTS

RECORD PRIOR TO FABRICATION.

1.PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR AIOBC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT CONSTRUCTION AREA.

2.THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, CARRY AND MAINTAIN FOR THE DURATION OF THE PROJECT. ALL INSURANCE AS

ACTIONS ON THE CONTRACTOR. REQUIRED AND LISTED. THE CONTRACTOR SHALL NOT COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE, STATING ALL COVERAGE TO THE CELLULAR CARRIER. THE CELLULAR CARRIER SHALL BE NAMED AS AN ADDITIONAL COMPANY INSURED ON ALL POLICIES.

3.THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED IN THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSIONS, WHICH MAY BE FOUND, SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.

4.THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING WHICH SUCH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.

5.NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

6.BEFORE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THE PROJECT MANAGER WILL DEVELOP A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE CELLULAR CARRIER'S PROJECT MANAGER PRIOR TO THE COMMENCEMENT OF ANY WORK.

7.THE CONTRACTOR SHALL SUBMIT A BAR TYPE PROGRESS CHART NOT MORE THAN THREE DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE. IT SHALL INDICATE A TIME BAR FOR EACH MAJOR CATEGORY OF WORK TO BE PERFORMED AT THE SITE, PROPERLY SEQUENCED AND COORDINATED WITH OTHER ELEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE SITE.

8.THE CONTRACTOR SHALL PROVIDE WRITTEN DAILY UPDATES ON SITE PROGRESS TO THE PROJECT MANAGER.

9.A COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO THE START OF CONSTRUCTION.

10.NOTIFY THE PROJECT MANAGER IN WRITING NO LESS THAN FORTY-EIGHT HOURS IN ADVANCE OF CONCRETE POURS. TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENT.

11.THE CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS. SUCH AS A MOBILE PHONE OR A BEEPER. THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE CELLULAR CARRIER . NOR WILL WIRELESS SERVICE BE ARRANGED.

12.DURING CONSTRUCTION. THE CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES CONTRACTOR WILL COMPLY WITH ALL SAFETY REQUIREMENTS IN THEIR AGREEMENT.



# **ISSUED FOR PERMIT**



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COLT

NATIONAL SURVEY SERVICES COORDINATION BY:



13430 NW 104th Terrace, Suite A Alachua, FL 32615 Office:(386) 418-0500 Fax:(386) 462-9986 WWW.GEOLINEINC.COM

SURVEY WORK PERFORMED BY:



## Professional Land Surveying

10505 Leafwood Place (919) 280-8189 Raleigh NC 27613 FAX 995-9616 E–MAIL : raleigh@murphygeomatics.com FIRM C–2757

SURVEYOR'S NOTES 1. BASIS OF BEARING: CT GRID NAD83

2. NO SUBSURFACE INVESTIGATION WAS PERFORMED TO LOCATE UNDERGROUND UTILITIES. UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED EVIDENCE ONLY.

3. THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL

4. ALL VISIBLE TELECOM EQUIPMENT AND IMPROVEMENTS ARE CONTAINED WITHIN THE DESCRIBED AREA.

5. ALL SYMBOLS SHOWN HEREON NOT DEPICTED TO SCALE.











<b>Dielectric</b> [®]	TFU-20ETT/VP-R O6	Die	lectric®
		29 ft (8.8m)	MECHANICALSProposal No.C-70211-7Date15-Feb-17Call LettersWVIT31Erroruepov575 MHz
Proposal Number:C-70211-7Date:15-Feb-17Customer:NBC UniversalLocation:New Britain, CT		68.1 ft (20.8m)	Antenna Type TFU-20ETT/VP-R O6 Preliminary Specifications
Electrical SpecificationsPolarizationEllipticalAzimuth PatternOmniAntenna Input6-1/8"75 OhmVSWRChannel1.08 : 1Bandwidth6 MHzRated Input Power50 kW(16.99 dB)	n EIA/DCA dBk) Maximum Average Power		Top MountedMechanical Specification without ice TIA-222-GHeight AGL(z)1057.4 ft (322.3 m)Basic Wind Speed97 m/h (156.1 km/h)
Viechanical SpecificationsVountingBottom of a StackEnvironmental ProtectionFull RadomeHeight39.1 ft (11.9m)Weight6600 lb (3t)Effective Projected Area42.7 ft² (4m²)	2-G <b>Basic Wind Speed</b> 97 m/h (156.1 km/h)		Structure Class       II         Exposure Category       C         Topography Category       1         Mechanical Specifications with Ice TIA-222-G
Channel Specifications	RMS RMS RMS Main Lobe Main Lobe at Horizontal at Horizontal	Not to scale	Wind Speed w/Ice 50 m/h (80.5 km/h)
Call CH Freq Hpol ERP Vpol ER WVIT 31 575 MHz 374.0 kW 187.0 kV (25.73 dBk) (22.72 dE	Image: Second system         Image: Se	Mechanical Specificationswithout iceHeight with Lightning ProtectorH4Height less Lightning ProtectorH239.1 ft (11.9m)Height of Center of RadiationH319.55 ft (6m)Effective Projected Area(EPA)s42.7 ft² (4m²)107Moment ArmD119.5 ft (5.9m)19	with ice         full stack         full stack with ice           68.1 ft (20.8m)         64.1 ft (19.5m)           19.55 ft (6m)         19.55 ft (6m)           7.2 ft² (10m²)         61.1 ft² (5.7m²)         190.5 ft² (17.7m²)           9.5 ft (5.9m)         29.1 ft (8.9m)         32.6 ft (9.9m)
		Weight W 6600 lb (3t) 10r Antenna designed in accordance with AISC specifications for design of stru	600 lb (4.8t) 8750 lb (4t) 13700 lb (6.2t) ictural steel as prescribed by TIA-222-G
	Andre J Skalina I have reviewed this document 16:11:44 2018.02.06 '00'05-	Prepared by:       KLP       Date:       15-Fe         Rev. No.7 by:       SPJC       Date:       2-Fe         This document contains proprietary and confidential information of Die reproduction, or use of this document or any part	ab-17       ME:       EE:         ib-18       SPTC         electric. It is to be used solely for the purpose for which it is provided. No disclosure, is of it may be made without the written permission of Dielectric.





-TRANSMITTER BUILDING -EXISTING GUYED TOWER 'B'



# **ISSUED FOR PERMIT**



## DESIGN DRAWINGS 1106.0' GUYED G7 TOWER NEW BRITAIN, CT

				INDEX			
DESCRIPTION	DWG	REV	DATE	DESCRIPTION	DWG	REV	DATE
					D05.01		11/8/2017
GENERAL ARRANGEMENT	D01.00		11/8/2017	BASE ASSEMBLY SUB-BRACING DETAILS	D05.01		11/0/2017
GENERAL NOTES	D01.01		11/8/2017	SUB-BRACING DETAILS	D05.02		11/8/2017
GENERAL NOTES	D01.02		11/8/2017	DIAGONAL REPLACEMENT	D05.03		11/8/2017
BASE FOUNDATION MODIFICATION	D02.00		11/8/2017	VERTICAL LEG REINFORCEMENT DETAILS	D05.04		11/8/2017
FOI INDATION NOTES	D03.00		11/8/2017	VERTICAL LEG REINFORCEMENT DETAILS	D05.05		11/8/2017
TOWER PROFILE	D04.00		11/8/2017	TOP ANTENNA ADAPTER PLATE DETAILS	D05.06		11/8/2017
TOWER PROFILE	D04.01		11/8/2017	COAX ARRANGEMENT	D06.00		11/8/2017
LINEAR APPURTENANCES	D05.00		11/8/2017	INTERCEPTS & ERECTION TENSIONS	D08.00		11/8/2017

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						Initial Release	Description	AWING IS THE PROPERTY OF STAINLESS LLC AND TRANSMITTED IN CONFIDENCE, AND THE REPRODU ART, OF THE DESIGN AND DETAILS CONTAINED HEREIN IS PROHIBITED WITHOUT THE WRITTEN PERMI
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TUNIT & BASIN	CONTRIDUCTION OF AND THE REPRODUCTION, USE OR DISCLOSURE, IN WHOLE OR CONTRIDUCE, AND THE REPRODUCTION, USE OR DISCLOSURE, IN WHOLE OR IN PART, OF THE DESIGN AND DETAILS CONTAINED HEREIN IS PROHIBITED	REV BY	DATE	REVISION DESCRIPTION	D.CK	DATE E.C	K DATE	NUMBER	2	00.1
	WITHOUT THE PRIOR WRITTEN PERMISSION OF STAINLESS.	K:\258	14\dwg\25	58114_E01.00.dwg						

- 1. The tower is a guyed, triangular, non-insulated, open face structure.
- 2. The tower was analyzed per Stainless Rigorous Structural Analysis Report 258113 Rev. A, dated 6/30/2017 in accordance with the 2016 Connecticut State Building Code and ANSI/TIA 222-G-2005, Structural Standard for Antenna Supporting Structures and antennas, including addenda 1 and 2, dated 2007 and 2009 respectively, for the following analysis parameters while supporting equipment as listed below:
  - Structure Classification II
  - 125 mph ultimate wind speed with no ice
  - 50 mph normal design wind speed with 1"design ice thickness Exposure Category B
  - Topographic Category 5 (Flat topped hill, H=220', L=1670', x=0')
  - 0.18 earthquake spectral response acceleration at short periods (Ss) **a** -
  - Earthquake Site Class D
  - a. One (1) top mounted TFU-20ETT/VP-R 06 antenna (NB: replaces existing TFU-28G antenna), fed by one (1) 6-1/8" rigid coax (NB: replaces existing 8-3/16" rigid coax). (Proposed)
  - b. One (1) TFU-22GTH/VP-R 4C140 antenna at the 1025' level, fed by one (1) 4-1/16" rigid coax.
  - One (1) Proscan III ENG antenna at the 1020' level, fed by one (1) 1-5/8" С. line and one (1) 1" control cable.
  - One (1) Outside transfer platform at the 1000' level. d .
  - e. One (1) Step down transformer at the 945' level. (Proposed)
  - f. Three (3) 3'x 4' ice shields at the 945' level. (Proposed)
  - Six (6) ENGensis panel antennas and three (3) ENGensis radios at the 940 α. level, fed by one (1) 1/2" line. (Proposed)
  - One (1) Station Master omni antenna at the 520' level, fed by one (1) 7/8" h. line.
  - One (1) 8'x 9' ice shield at the 360' level. i.
  - One (1) PA4-65 dish with radome at the 350' level, fed by one (1) WEP65 j. line.
  - k. One (1) ENGensis ENG antenna at the 335' level, fed by one (1) 7/8" line and one (1) 1" control cable.
  - One (1) DB-408 omni antenna at the 330' level, fed by one (1) 7/8" line.
  - m. One (1) PA4-65 dish with radome at the 320' level, fed by one (1) WEP65 line
  - One (1) Diamond X-50A omni antenna at the 140' level, fed by one (1) 7/8" n. line
  - One (1) 6'x 7' ice shield at the 110' level. Ο.
  - One (1) PA6-65 dish with radome at the 100' level, fed by one (1) WEP65 р. line
  - q. One (1) inside ladder w/cable safety device for the full height of the tower.
  - r. One (1) 1-1/4" existing conduit to top.
  - One (1) TechnoStrobe LED lighting system with armored cable, diameters S. vary up the tower (NB: replaces existing strobes). Full height of tower. (Proposed)
- 3. In order for the tower to achieve a 125 mph ultimate wind speed with no ice and a 50 mph normal design wind speed with 1" design ice thickness in accordance with the 2016 Connecticut State Building Code and ANSI/TIA 222-G for a maximum rating of 100%, the following modifications are required:
  - a. Reinforce the tower base. It is assumed there are no physical obstructions, both above and below grade, preventing the installation of the foundation modification.
  - b. Remove existing tower leg sub-horizontal bracing members between levels 704.6' thru 717.1' and 935.9' thru 948.4'
  - c. Reinforce tower legs with full pipe sleeves at the following bays:

Location	No.of bays
704.0' - 718.0'	2
935.3' - 949.0'	2

d. Install additional horizontal sub-horizontal bracing members at the midpoints of the following bays:

Location	No.of bays
0.0' - 10.0'	2
158.8' - 183.8'	4
233.8' - 271.3'	6
358.8' - 365.0'	1
598.4' - 604.6'	1
648.4' - 654.6'	1
679.6' - 698.4'	3
729.6' - 754.6'	4
760.9' - 779.6'	3

e. Replace the existing diagonal braces with new, higher capacity members at the following locations:

Location	No.of bays
290.0' - 271.3'	3
998.4' - 948.4'	2

- f. Adjust initial tensions in all guy levels.
- g. Provide new top adapter plate assembly to accept new proposed antenna.
- 4. The design of the tower modifications above has been based upon Stainless Report 258113 Rev A, dated 6/30/2017. The details contained within this design drawing package are included for information and are not intended to be used as shop or final fabrication drawings. The Contractor shall field verify all dimensions, elevations and existing site conditions and notify Stainless immediately of any site discrepancies or variances. Contractor shall not scale dimensions from the design drawings. It shall be the responsibility of the Contractor to ensure proper fit-up of the tower modification materials.
- 5. All work shown on this design drawing package shall be performed by qualified contractor (s) with a minimum of 5 years experience in tower and foundation construction.
- All material shall be in accordance with the notes, specifications and 6. drawings. All deviations and substitutions must be approved by a registered Professional Engineer in the state where the work is being done and submitted to Stainless for approval prior to installation. The Contractor shall furnish satisfactory evidence as to the kind and quality of the materials and equipment being substituted. Contractor shall also be responsible for obtaining all necessary permits, licenses and any other requirements for the construction. Submit all necessary calculations for substitutions and design details.
- 7. Contractor shall observe safe construction practices and shall be responsible for all methods of construction, including proper and adequate bracing to the tower and excavation work during the installation process. Adequately designed temporary support shall be installed before any tower component is removed and replaced. All means and methods of construction, including construction and soil pressure loads, shall be properly calculated and documented by the Contractor.
- If the construction activities require a rigging plan per the requirements of 8. ANSI/ASSE A10.48 and ANSI/TIA-322-2016, a rigging plan shall be developed by a Qualified Person, submitted to the Owner for review and implemented by a competent rigger. The Qualified Person shall coordinate Class IV rigging plans with a Qualified Engineer for a structural analysis of the structure considering the construction loading. A properly detailed rigging plan shall include, as a minimum, a review of the following:
  - Operational and non-operational construction loads.
  - Equipment used, and Supporting structure
  - Construction sequence and durations





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- 9. Stainless assumes no responsibility for the structural adequacy of the tower if non-conforming modification materials are supplied and/or installed by others, and shall have no liability whatsoever to owner or to others for any work performed by any persons other than Stainless in connection with the implementation of any structural changes or modifications not specifically addressed within this design drawing package. Owner acknowledges and agrees that any riggers, erectors or subcontractors retained or employed by owner shall be solely responsible to owner and to others for the quality of work performed by them and that Stainless shall have no liability or responsibility whatsoever as a result of any negligence or breach of contract by such rigger, erector or subcontractor.
- 10. The modification drawings contained herein are based on the assumption that the tower has been properly installed and maintained, including, but not limited to the following:
  - a. Proper alignment and plumbness.
  - b. Correct bolt tightness.
  - c. No significant deterioration or damage to any component.

#### APPLICABLE CODES AND STANDARDS

Use latest editions of the following Codes and Standards unless noted otherwise.

- 1. ANSI/TIA-222-G 2005 Structural Standards for Antenna Supporting Structures and Antennas including Addenda 1 & 2, dated 2007 and 2009.
- ANSI/ASSE A10.48 Criteria for Safety Practices Related to the Installation, Alteration, and Maintenance of Communication Structures. ANSI/TIA-322 Loading, Analysis and Design Criteria Related to the Installation, Alteration and Maintenance Communication Structures.
- 3. AISC Manual of Steel Construction.
- 4. RCSC Specification for Structural Joints Using ASTM A325 Bolts.
- 5. ACI 301 Specifications for Structural Concrete.
- 6. ACI 318 Building Code Requirements for Structural Concrete.
- 7. ACI 315 Details and Detailing of Concrete Reinforcement.
- 8. CRSI Manual of Standard Practice.
- 9. ASTM C260 Standard Specification for Air-Entraining Admixtures for Concrete.
- 10. ASTM C494 Standard Specification for Chemical Admixtures for Concrete.
- 11. ASTM A36 Standard Specification for Carbon Structural Steel.
- 12. ASTM A572 Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel.
- 13. ASTM A325 Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength.
- 14. ASTM A194 Standard Specification for Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both.
- 15. ASTM F436 Standard Specification for Hardened Steel Washers.
- 16. ASTM A123 Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and products.
- 17. ASTM A153 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
- 18. ASTM A780 Standard Practice for Repair of Damage and Uncoated Areas of Hot-Dip Galvanized Coatings.
- 19. ASTM A615 Standard Specification for Deformed and Plain Carbon Steel Bars for Concrete Reinforcement.

#### STRUCTURAL STEEL

- 1. The fabrication and erection of structural steel shall conform to the AISC Manual of Steel Construction.
- 2. Repair all damaged or uncoated areas of galvanized coatings in accordance with ASTM A780.
- Locking ANCO style nuts shall be installed on all bolts unless noted otherwise.
- 4. All A325 high strength bolts shall be tightened by the "snug tightening" method as specified in the RCSC Specification for Structural Joints Using ASTM A325 Bolts unless noted otherwise on the design drawings.
- 5. Material grades shall be as follows:
  - a. Bolts A325X
  - b. U-Bolts A307 min.
  - c. HSS A500 Gr.B (min.42ksi)
  - d. Plates and angles A36
  - e. Channels and Round Bars A572 Grade 50

#### PLUMBING LINES

- 1. The tower is designed for initial tension as specified in the erection drawings. It is important that the guys be tensioned accurately to assure the stiffness of the tower.
- 2. Uneven terrain, temperature, plumbness of tower and wind are factors which affect guy tensions. If the tower site is level and anchor distances are equal, the tensions in all three guys at a level will be equal when the tower is plumb. If the terrain of the tower site is uneven, the guys are not perfectly symmetrical and tensions in guys vary in the three directions. For this reason initial guy tensions are specified in one direction only. The tower should be plumbed with the specified tensions in the given guy direction.
- 3. Wind load on tower and guys changes the tension in all guys; therefore, plumb the tower in calm weather only.
- 4. The plumbing of a tower or checking alignment of a tower should be performed in accordance with Annex J of ANSI/TIA 222-G.

#### **REINFORCED CONCRETE**

- 1. All concrete shall be in accordance with ACI 318 and ACI 301 and have a minimum compressive strength of 4000 psi after 28 days.
- 2. All concrete shall be sampled and tested in accordance with ACI 301. Testing shall be carried out by an independent testing laboratory.
- 3. Concrete shall not contain calcium chloride or any admixtures that contain chlorides. All admixtures used shall conform t ASTM C260 (air-entraining) and ASTM C494 (water reducing and/or accelerating)
- 4. All reinforcing bars shall be Grade 60 deformed bars in accordance with ASTM A615, and shall be fabricated and placed in accordance with ASTM
- 315, ACI 318 and CRSI's Manual of Standard Practice. 5. Minimum cover of the reinforcing bars for foundation concrete shall be 3".
- 6. All formwork shall conform to ACI 318. No rough lumber shall be used
- where the concrete surface is visible.
- 7. Concrete shall be placed monolithically unless noted otherwise on the drawings.
- 8. All exposed concrete corners shall be beveled neatly with approximately 1" chamfer.
- Reinforcing bars shall be positioned as shown on the drawings and shall be adequately supported against displacement during concreting. Tack welding shall not be used.
- 10. Backfill near and around the foundation with a reasonably well graded fill and compact to original density.

#### WELDING

- 1. All welding shall be in accordance with AWS D1.1 Structural Welding Code-Steel.
- 2. All welding shall be performed by welders certified by the AWS in both type of weld and position of welding matching the details contained within this design drawings package.
- 3. All weld electrodes shall be low hydrogen E70XX or equal.
- Prepare weld areas Areas to be welded are to be free of scale, rust, galvanizing, and slag. All base metals shall be prepared in accordance to AWS D1.1.
- 5. Remove any galvanizing finish completely within a 2" perimeter of any weld zone.
- 6. Preheat material to 70 degree (F) if air temperature is below 32 degree (F). Material should be heat soaked through or a 3" minimum in every direction.
- 7. Refer to AWS D1.1 for general workmanship and technique.
- 8. No starts and stops are allowed at the end of the pipe corners. Weld wraps must begin and end at a 1" minimum away from the corners.

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NOTES.	BILL OF MATER	<u>IAL</u>
1. SEE PAGE D03.00 FOR FOUNDATION NOTES.	QTY. NAME	DESCRIPTION #0 - ASTM A615 GRADE 60
2. EXCAVATE AROUND PERIMETER OF EXISTING BASE PIER.	100' REINFORCING BARS	#6 - ASTM A615 GRADE 60
CONCRETE. APPLY BONDING AGENT SIKADUR 32, HI-MOD LPL	200' REINFORCING TIES	#3 - ASTM A615 GRADE 60
OR EQUIVALENT BONDING AGENT PRIOR TO NEW CONCRETE PLACEMENT. BONDING AGENT SHALL BE APPLIED IN ACCORDANCE	AS REQUIRED HILTI-HIT-HY 200 ADHESIVE	4000 PSI AFTER 28 DAYS
WITH MANUFACTURER APPLICATION SPECIFICATIONS AND GUIDELINES		
4. SECURE DOWELED IN REBAR WITH REBAR ADHESIVE (HILTI-HIT-HY 200 EPOXY ADHESIVE OR EQUIVALENT).		
(20) #9 VERTICAL BARS		
EMBEDDED EQUALLY		
	•	
9" 		
(12) #6 BARS FOR THE TOP LAYER AND (16) #6 BARS FOR THE MIDDLE AND BOTTOM LAYERS EMBEDDED 9" INTO EXISTING PIER EQUALLY		·
SPACEU AS SHUWN, LENGTH VARIES		
#3 TIES SPACED AT 12" O.C.		
	N VIEW	
2'-0" NEW	2. EXISTING	EW CONCRETE
		eo.
6'-6" NEW SEE NOTE 3		EXISTING
(20) #9 VERTICAL BARS		
(7) #3 TIES SPACED		



#### FOUNDATION NOTES

- 1. All concrete to be in accordance with the current edition of ACI 318 and ACI 301 and have a minimum compressive strength of 4000 PSI after 28 days.
- 2. Concrete to be sampled and tested in accordance with ACI 301, paragraphs 16.3, 16.4, and 16.5. Testing to be performed by an independent testing laboratory.
- 3. All reinforcing shall be deformed steel bars in accordance with ASTM A615, Grade 60.
- 4. Concrete and reinforcing bars furnished by foundation contractor.
- No rough lumber to be used where concrete surface is visible.
   All exposed concrete corners shall be beveled neatly with approximately 1" chamfer.
- 7. Reinforcing shall be positioned as shown and adequately supported against displacement. Tack welding is not permitted.
- 8. Bend all reinforcing cold and remove all scale.
- 9. Minimum cover for reinforcing bars is 3".
- 10. The foundation must rest on undisturbed soil.
- 11. Backfill near and around all foundations with a reasonable well graded fill and compact to original density.
- 12. Elevation and flatness of base foundation top to be within plus or minus 1/4".
- 13. Foundation design is based upon the subsurface analysis performed by Clarence Welti Associates, Inc. dated July 19, 1976 for Connecticut Television Inc. tower project. Test boring data was forwarded to Stainless Inc. for job #2581.
- 14. If the actual subsurface conditions deviate from those described in the subsurface investigation or any other soil information provided, contact Stainless immediately.
- 15. Bill of Material is approximate and for reference only. Contractor must verify all quantities.

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![](_page_19_Figure_0.jpeg)

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B	MAXIMUM FACTORED LOADS
i/8" DIA.	19.88 KIPS
S (A325X)	SEE NOTE 2
5/8" DIA.	19.88 KIPS
S (A325X)	SEE NOTE 2

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![](_page_21_Figure_0.jpeg)

![](_page_22_Figure_0.jpeg)

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![](_page_23_Figure_0.jpeg)

		GE	20 DI	-G F	40 DF	-G F	60 DI	=G F	80 DI	=G. F	100 D	EG. F
		.0.1	2001									
	ERECT. TENSION (LBS)	INTER- CEPT (FT)										
1A	10451	6.2	9522	6.9	8616	7.6	7760	8.4	6958	9.3	6220	10.4
2A	11499	14.9	10815	15.8	10154	16.8	9520	17.9	8934	19.1	8375	20.3
3A	14913	29.7	14410	30.6	13915	31.7	13420	32.8	12968	33.9	12516	35.0
4A	16544	48.8	16151	49.9	15758	51.0	15360	52.3	15011	53.4	14646	54.7
5A	31608	55.3	31143	56.1	30678	56.9	30200	57.7	29780	58.5	29346	59.3
6A	49621	60.0	49222	60.5	48823	60.9	48360	61.5	48025	61.9	47626	62.4

GUY #2

# GUY #1

SIGHTLINE

#### NOTES:

- 1. DURING THE INITIAL GUY TENSIONING PROCEDURES AND AT THE TIME OF INSPECTION, THE GUY TENSIONS AND/OR INTERCEPTS SHOULD BE IN ACCORDANCE WITH THE VALUES SHOWN ABOVE. USE THE TEMPERATURE WHICH ACTUALLY EXISTS AT THE TIME THE TENSION IS BEING CHECKED. FOR TEMPERATURES OTHER THAN THOSE SHOWN ABOVE, INTERPOLATE OR EXTRAPOLATE OTHER VALUES.
- 2. TOWER PLUMBING AND INITIAL TENSIONING OF GUYS SHOULD BE DONE ONLY IN CALM WEATHER AND WITH NO ICE ON GUYS.
- 3. USE INTERCEPTS AND TENSIONS IN GUY DIRECTION "A" ONLY.
- 4. GUY #1 IS BOTTOM GUY; GUY #2 IS NEXT, ETC.
- 5. USE SIGHT BAR FOR DETERMINING GUY INTERCEPTS.
- 6. TENSION AND/OR INTERCEPT TOLERANCES +/- 5%.

**ELEVATION VIEW** 

![](_page_24_Figure_12.jpeg)

## Attachment 1

![](_page_26_Picture_0.jpeg)

## TFU-20ETT/VP-R O6

Proposal Number:	C-70211-7
Date:	15-Feb-17
Customer:	NBC Universal
Location:	New Britain, CT

#### **Electrical Specifications**

Polarization Azimuth Pattern	Elliptical Omni		
Antenna Input	6-1/8"	75 Ohm	EIA/DCA
VSWR	Channel	1.08 : 1	
Bandwidth	6 MHz		
Rated Input Power	50 kW	(16.99 dBk)	Maximum Average Power

#### **Mechanical Specifications**

Mounting	Bottom of a Stack	K		
Environmental Protection	Full Radome			
Height	39.1 ft (11.9m)			
Weight	6600 lb (3t)			
Effective Projected Area	42.7 ft ² (4m ² )	TIA-222-G	<b>Basic Wind Speed</b>	97 m/h (156.1 km/h)

#### **Channel Specifications**

Call	СН	Freq	Hpol ERP	Vpol ERP	ТРО	RMS Main Lobe Hpol Gain	RMS Main Lobe Vpol Gain	RMS at Horizontal Hpol Gain	RMS at Horizontal Vpol Gain
WVIT	31	575 MHz	374.0 kW (25.73 dBk)	187.0 kW (22.72 dBk)	38.0 kW (15.80 dBk)	13.07 (11.16dB)	6.53 (8.15dB)	8.79 (9.44dB)	4.39 (6.43dB)

# **Dielectric**[®]

![](_page_27_Figure_1.jpeg)

### AZIMUTH PATTERN Horizontal Polarization

Proposal No. Date Call Letters Frequency Antenna Type	C-70211-7 15-Feb-17 WVIT 31 575 MHz TFU-20ETT/VP-R O6
Gain	1 (0dB) Coloulated
Circularity	+/- 1.0 dB

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.999	36	1.000	72	0.999	108	0.999	144	1.000	180	0.999	216	1.000	252	0.999	288	0.999	324	1.000
1	0.999	37	1.000	73	0.999	109	0.999	145	1.000	181	0.999	217	1.000	253	0.999	289	0.999	325	1.000
2	0.999	38	1.000	74	0.999	110	0.999	146	1.000	182	0.999	218	1.000	254	0.999	290	0.999	326	1.000
3	0.999	39	1.000	75	0.999	111	0.999	147	1.000	183	0.999	219	1.000	255	0.999	291	0.999	327	1.000
4	0.999	40	1.000	76	0.999	112	0.999	148	1.000	184	0.999	220	1.000	256	0.999	292	0.999	328	1.000
5	0.999	41	1.000	77	1.000	113	0.999	149	1.000	185	0.999	221	1.000	257	1.000	293	0.999	329	1.000
6	0.999	42	1.000	78	1.000	114	0.999	150	1.000	186	0.999	222	1.000	258	1.000	294	0.999	330	1.000
7	0.999	43	1.000	79	1.000	115	0.999	151	1.000	187	0.999	223	1.000	259	1.000	295	0.999	331	1.000
8	0.999	44	0.999	80	1.000	116	0.999	152	1.000	188	0.999	224	0.999	260	1.000	296	0.999	332	1.000
9	0.999	45	0.999	81	1.000	117	0.999	153	1.000	189	0.999	225	0.999	261	1.000	297	0.999	333	1.000
10	0.999	46	0.999	82	1.000	118	0.999	154	1.000	190	0.999	226	0.999	262	1.000	298	0.999	334	1.000
11	0.999	47	0.999	83	1.000	119	0.999	155	1.000	191	0.999	227	0.999	263	1.000	299	0.999	335	1.000
12	0.999	48	0.999	84	1.000	120	0.999	156	1.000	192	0.999	228	0.999	264	1.000	300	0.999	336	1.000
13	0.999	49	0.999	85	1.000	121	0.999	157	1.000	193	0.999	229	0.999	265	1.000	301	0.999	337	1.000
14	0.999	50	0.999	86	1.000	122	0.999	158	1.000	194	0.999	230	0.999	266	1.000	302	0.999	338	1.000
15	0.999	51	0.999	87	1.000	123	0.999	159	1.000	195	0.999	231	0.999	267	1.000	303	0.999	339	1.000
16	0.999	52	0.999	88	1.000	124	0.999	160	1.000	196	0.999	232	0.999	268	1.000	304	0.999	340	1.000
17	1.000	53	0.999	89	1.000	125	0.999	161	1.000	197	1.000	233	0.999	269	1.000	305	0.999	341	1.000
18	1.000	54	0.999	90	1.000	126	0.999	162	1.000	198	1.000	234	0.999	270	1.000	306	0.999	342	1.000
19	1.000	55	0.999	91	1.000	127	0.999	163	1.000	199	1.000	235	0.999	271	1.000	307	0.999	343	1.000
20	1.000	56	0.999	92	1.000	128	0.999	164	0.999	200	1.000	236	0.999	272	1.000	308	0.999	344	0.999
21	1.000	57	0.999	93	1.000	129	0.999	165	0.999	201	1.000	237	0.999	273	1.000	309	0.999	345	0.999
22	1.000	58	0.999	94	1.000	130	0.999	166	0.999	202	1.000	238	0.999	274	1.000	310	0.999	346	0.999
23	1.000	59	0.999	95	1.000	131	0.999	167	0.999	203	1.000	239	0.999	2/5	1.000	311	0.999	347	0.999
24	1.000	60	0.999	90	1.000	132	0.999	100	0.999	204	1.000	240	0.999	270	1.000	312	0.999	348	0.000
20	1.000	62	0.999	97	1.000	100	0.999	170	0.999	205	1.000	241	0.999	270	1.000	214	0.999	349	0.999
20	1.000	62	0.999	90	1.000	125	0.999	170	0.999	200	1.000	242	0.999	270	1.000	215	0.999	351	0.999
28	1.000	64	0.000	100	1.000	136	0.333	172	0.333	207	1.000	243	0.333	280	1.000	316	0.000	352	0.333
20	1.000	65	0.333	100	1.000	137	1 000	173	0.333	200	1.000	244	0.333	281	1.000	317	1 000	353	0.333
30	1.000	66	0.000	102	1.000	138	1.000	174	0.000	210	1.000	246	0.000	282	1.000	318	1.000	354	0.000
31	1.000	67	0.000	102	1.000	139	1.000	175	0.000	211	1.000	240	0.000	283	1.000	319	1.000	355	0.000
32	1 000	68	0 999	104	0 999	140	1 000	176	0.999	212	1 000	248	0.999	284	0 999	320	1.000	356	0.000
33	1.000	69	0.999	105	0.000	141	1.000	177	0.999	213	1.000	249	0.999	285	0.000	321	1.000	357	0.000
34	1 000	70	0.999	106	0.999	142	1 000	178	0.999	214	1 000	250	0.999	286	0.999	322	1 000	358	0.999
35	1.000	71	0.999	107	0.999	143	1.000	179	0.999	215	1.000	251	0.999	287	0.999	323	1.000	359	0.999

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# **Dielectric**[®]

![](_page_28_Figure_1.jpeg)

#### **AZIMUTH PATTERN** Vertical Polarization

Proposal No. Date	C-70211-7 15-Feb-17
Call Letters	WVIT 31
Frequency Antenna Type	575 MHz TFU-20ETT/VP-R O6
Gain	1.13 (0.53dB)
Circularity	+/- 1.0 dB

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.707	36	0.631	72	0.678	108	0.678	144	0.631	180	0.707	216	0.631	252	0.678	288	0.678	324	0.631
1	0.707	37	0.633	73	0.674	109	0.682	145	0.628	181	0.707	217	0.633	253	0.674	289	0.682	325	0.628
2	0.706	38	0.636	74	0.669	110	0.686	146	0.626	182	0.706	218	0.636	254	0.669	290	0.686	326	0.626
3	0.705	39	0.640	75	0.665	111	0.690	147	0.625	183	0.705	219	0.640	255	0.665	291	0.690	327	0.625
4	0.703	40	0.644	76	0.660	112	0.693	148	0.623	184	0.703	220	0.644	256	0.660	292	0.693	328	0.623
5	0.701	41	0.648	77	0.656	113	0.696	149	0.623	185	0.701	221	0.648	257	0.656	293	0.696	329	0.623
6	0.699	42	0.652	78	0.652	114	0.699	150	0.623	186	0.699	222	0.652	258	0.652	294	0.699	330	0.623
7	0.696	43	0.656	79	0.648	115	0.701	151	0.623	187	0.696	223	0.656	259	0.648	295	0.701	331	0.623
8	0.693	44	0.660	80	0.644	116	0.703	152	0.623	188	0.693	224	0.660	260	0.644	296	0.703	332	0.623
9	0.690	45	0.665	81	0.640	117	0.705	153	0.625	189	0.690	225	0.665	261	0.640	297	0.705	333	0.625
10	0.686	46	0.669	82	0.636	118	0.706	154	0.626	190	0.686	226	0.669	262	0.636	298	0.706	334	0.626
11	0.682	47	0.674	83	0.633	119	0.707	155	0.628	191	0.682	227	0.674	263	0.633	299	0.707	335	0.628
12	0.678	48	0.678	84	0.631	120	0.707	156	0.631	192	0.678	228	0.678	264	0.631	300	0.707	336	0.631
13	0.674	49	0.682	85	0.628	121	0.707	157	0.633	193	0.674	229	0.682	265	0.628	301	0.707	337	0.633
14	0.669	50	0.686	86	0.626	122	0.706	158	0.636	194	0.669	230	0.686	266	0.626	302	0.706	338	0.636
15	0.665	51	0.690	87	0.625	123	0.705	159	0.640	195	0.665	231	0.690	267	0.625	303	0.705	339	0.640
16	0.660	52	0.693	88	0.623	124	0.703	160	0.644	196	0.660	232	0.693	268	0.623	304	0.703	340	0.644
17	0.656	53	0.696	89	0.623	125	0.701	161	0.648	197	0.656	233	0.696	269	0.623	305	0.701	341	0.648
18	0.652	54	0.699	90	0.623	126	0.699	162	0.652	198	0.652	234	0.699	270	0.623	306	0.699	342	0.652
19	0.648	55	0.701	91	0.623	127	0.696	163	0.656	199	0.648	235	0.701	271	0.623	307	0.696	343	0.656
20	0.644	50	0.703	92	0.623	128	0.693	164	0.660	200	0.644	230	0.703	272	0.623	308	0.693	344	0.660
21	0.640	5/	0.705	93	0.626	129	0.690	100	0.000	201	0.640	237	0.705	273	0.625	309	0.690	345	0.000
22	0.030	50	0.700	94	0.020	121	0.000	167	0.009	202	0.030	230	0.700	274	0.020	211	0.000	240	0.009
23	0.000	60	0.707	90	0.020	122	0.002	169	0.074	203	0.033	239	0.707	275	0.020	212	0.002	2/9	0.074
25	0.628	61	0.707	97	0.001	132	0.674	160	0.670	204	0.628	240	0.707	270	0.001	312	0.674	3/0	0.682
25	0.626	62	0.706	98	0.000	134	0.669	170	0.686	205	0.626	241	0.706	278	0.000	314	0.669	350	0.686
27	0.625	63	0.705	99	0.640	135	0.665	171	0.690	207	0.625	243	0.705	279	0.640	315	0.665	351	0.690
28	0.623	64	0 703	100	0.644	136	0.660	172	0.693	208	0.623	244	0 703	280	0.644	316	0.660	352	0.693
29	0.623	65	0 701	101	0.648	137	0.656	173	0.696	209	0.623	245	0 701	281	0.648	317	0.656	353	0.696
30	0.623	66	0.699	102	0.652	138	0.652	174	0.699	210	0.623	246	0.699	282	0.652	318	0.652	354	0.699
31	0.623	67	0.696	103	0.656	139	0.648	175	0.701	211	0.623	247	0.696	283	0.656	319	0.648	355	0.701
32	0.623	68	0.693	104	0.660	140	0.644	176	0.703	212	0.623	248	0.693	284	0.660	320	0.644	356	0.703
33	0.625	69	0.690	105	0.665	141	0.640	177	0.705	213	0.625	249	0.690	285	0.665	321	0.640	357	0.705
34	0.626	70	0.686	106	0.669	142	0.636	178	0.706	214	0.626	250	0.686	286	0.669	322	0.636	358	0.706
35	0.628	71	0.682	107	0.674	143	0.633	179	0.707	215	0.628	251	0.682	287	0.674	323	0.633	359	0.707

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![](_page_29_Picture_0.jpeg)

#### **ELEVATION PATTERN**

Proposal No.	C-70211-7	
Date	15-Feb-17	
Call Letters	WVIT	31
Frequency	575 MHz	
Antenna Type	TFU-20ET	T/VP-R O6

![](_page_29_Figure_3.jpeg)

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47.0

48.0

49.0

0.035

0.045

0.034

67.0 0.015

69.0 0.025

68.0 0.020

87.0

88.0

89.0

90.0

0.002

0.001

0.000

0.000

0.141

0.154

0.089

7.0

8.0

9.0

27.0 0.036

29.0 0.060

28.0 0.027

![](_page_30_Picture_0.jpeg)

![](_page_30_Figure_1.jpeg)

Weight	W	6600 lb	(3t)	10600 lb (4.8t)	8750 lb (4t)	13700 lb (6.2t)
Antenna designed	in accordance with AISC	C specifications for	or design	of structural steel as	prescribed by TIA-222-G	
Prepared by:	KLP		Date:	15-Feb-17	ME:	EE:
Rev. No.7 by:	SPJC		Date:	2-Feb-18	SPJC	

19.5 ft (5.9m)

D1

Moment Arm

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19.5 ft (5.9m)

29.1 ft (8.9m)

32.6 ft (9.9m)

![](_page_31_Picture_0.jpeg)

### Summary

Proposal No.	C-70211-7	
Date	15-Feb-17	
Call Letters	WVIT	31
Frequency	575 MHz	
Antenna Type	TFU-20ETT	/VP-R 06

#### <u>Antenna</u>

	Hp	loc	V	loc	
ERP:	374.0 kW	( 25.73 dBk )	187.0 kW	( 22.72 dBk )	
RMS Gain*	13.07	( 11.16 dB )	6.53	( 8.15 dB)	

#### Antenna Input Power 28.6 kW (14.57 dBk)

#### **Transmission Line**

Туре	Rigid	Attenuation		(1.23 dB)
Size	6-1/8"	Efficiency	75.3%	
Impedance	75 Ohm			
Length	1055 ft	321.6 m		

**Transmitter Output** 

38.0 kW (15.80 dBk)

Transmitter filter losses not included

* Directivity and Gain are with respect to half wave dipole. Includes losses within antenna.

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## Attachment 2

![](_page_33_Picture_0.jpeg)

A BUSINESS OF FDH VELOCITEL

## **REPORT 258113**

DATE: 5/12/2017

RIGOROUS STRUCTURAL ANALYSIS

FOR A 1057' STEEL HEIGHT G-7 GUYED TOWER

NEW BRITAIN, CT

PREPARED BY:

APPROVED: DDA

CHECKED BY:

PCC

AP

![](_page_33_Picture_11.jpeg)

2-7	

#### STAINLESS – A BUSINESS OF FDH VELOCITEL Table of Contents

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#### **SECTION**

### <u>PAGE</u>

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C.	CONDITIONS INVESTIGATED	.2
D.	LOADS AND STRESSES	.3
E.	METHOD OF ANALYSIS	.4
F.	RESULTS	.4
G.	CONCLUSIONS AND RECOMMENDATIONS	.5
H.	PROVISIONS OF ANALYSIS	.7

#### <u>APPENDIX</u>

GENERAL ARRANGEMENT	
LINEAR APPURTENANCES	A-2

![](_page_34_Picture_9.jpeg)

#### STAINLESS A BUSINESS OF FDH VELOCITEL

Rev.	Date	Description
	<b>DIDI7</b>	

#### A. <u>AUTHORIZATION/PURPOSE</u>

As authorized by Joe DiMaggio of WVIT-TV, a structural analysis was performed to investigate the adequacy of a 1057' steel height Stainless G-7 guyed tower near New Britain, Connecticut to support specified equipment.

#### B. TOWER HISTORY

The tower was originally designed and furnished in 1976 by Stainless, Inc. It was designed in accordance with EIA Standard RS-222-C for a wind load rating of 50 psf with no ice, 40 psf with 1/2" of radial ice, and 30 psf with 1" of radial ice while supporting the following equipment:

- 1. One (1) top mounted RCA Channel 30 Zee panel antenna with radome, fed by one (1) 8-3/16" rigid coax.
- 2. Two (2) 8'x12' reflectors at the first and second guy levels.
- 3. One (1) high intensity strobe lighting system for the full height of the tower.
- 4. One (1) inside climbing ladder for the full height of the tower.

In December 1978, the tower was extended to 1057' per Stainless Inc. Report 258102. The extended tower was designed to support the following:

- 1. One (1) top mounted RCA TFU 28G Channel 30 antenna, fed by one (1) 8-3/16" rigid coax.
- 2. Two (2) 8'x12' reflectors at the first and second guy levels.
- 3. One (1) high intensity strobe lighting system for the full height of the tower.
- 4. One (1) inside climbing ladder for the full height of the tower.
- In 2004, the tower was modified by Stainless LLC per Report 258108. The modifications consisted of the following:
  - Replaced Levels 5 and 6 (topmost) guys with new, higher capacity guys.
  - Adjusted initial tensions in all guy levels.
  - Replaced existing diagonals with new, higher capacity members at the following bay:

Location	No of bays
1035.9' – 1010.9'	4
910.9' - 842.1'	11
517.1' – 511.5'	1

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• Replaced existing horizontals with new, higher capacity members at the following levels:

Location	No of levels
1023.4'	1
885.9' - 848.4'	7
842.1'	1

• Installed additional horizontal sub-bracing at the midpoints of the following bays:

Location	No of bays
1023.4' – 879.6'	23
860.9' - 779.6'	13
760.9' – 754.6'	1
729.6' – 704.6'	4
679.6' – 654.6'	4
629.6' - 604.6'	4
560.9' - 554.6'	1
508.8' - 496.3'	2
490.0' - 433.8'	9
358.8' – 271.3'	14
233.8' - 208.8'	4
158.8' – 108.8'	8
15.0' – 33.8'	3

#### C. <u>CONDITION INVESTIGATED</u>

The analysis was performed for the tower supporting equipment based upon the following sources:

- ) Stainless Proposal P16_2581_001 dated 10/28/2016.
- J Stainless LLC Report 258110 dated 6/4/2003.
- Stainless LLC Report 258108 dated March 2002.
- Email from Rick Smart of Dielectric dated 3/17/2017 with mechanical specifications for the proposed top antenna.
- Equipment schedule WVIT Stainless G-7 Tower 2016, undated.
- Emails from Joe DiMaggio of WVIT dated 11/2, 11/18, and 11/23/2016 with details of existing tower loading.
- ) Email from Joe DiMaggio dated 6/15/2017 with details of original tower geotechnical design information.
- Email from Joe DiMaggio dated 6/27/2017 with details of final tower loading condition.
- Email from David Shepeard of Drake Lighting dated 6/28/2017 with details of TechnoStrobe high intensity LED lighting system.

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	ELEVATION &	FEED LINES
APPURIENANCE	ELEVATION, IL	FEED LINES
TFU-22GTH/VP-R 4C140	1025	4-1/16" rigid
Proscan III ENG	1020	1-5/8" & 1" control cable
Outside transfer platform	1000	
Station Master omni	520	7/8"
8' x 9' ice shield	360	
PA4-65 dish/radome	350	WEP65
ENGensis ENG	335	7/8" & 1" control cable
DB-408 omni	330	7/8"
PA4-65 dish/radome	320	WEP65
Diamond X-50A omni	140	7/8"
6' x 7' ice shield	110	
PA6-65 dish/radome	100	WEP65
Ladder with cable safety device	Full height of tower	3/8" safety cable
Proposed equipment:		
TFU-20ETT/VP-R O6 (NB:	Towerton	6-1/8" rigid (NB: replaces
replaces existing TFU-28G)	Tower top	existing 8-3/16" rigid)
Step down transformer	945	
(3) 3' x 4' ice shields	945	
(6) ENGensis panel antennas	040	1/2" fiber
(3) ENGensis radios	740	1-1/4" conduit (existing)
TechnoStrobe LED lighting		Armored cable diamotors
system (NB: replaces existing	Full height of tower	vary un the tower
strobes)		vary up the tower

The transmission line arrangement was based upon Stainless LLC Report 258110 dated 6/4/2003. Lines with unknown locations on the cross section are conservatively assumed to be fully exposed to wind. The locations of all existing and proposed transmission lines are shown on page A-2 of the report. Deviating from this arrangement may invalidate the results of the analysis presented in this report.

#### D. LOADS AND STRESSES

The analysis was performed using the following design parameters in accordance with the 2016 Connecticut State Building Code and ANSI/TIA 222-G-2005, <u>Structural Standard for Antenna</u> <u>Supporting Structures and Antennas</u>, including Addenda 1 and 2 dated 2007 and 2009 respectively:

Risk Category II
125 mph ultimate design wind speed with no ice
50 mph nominal design wind speed with 1" design ice thickness
Exposure Category B
Topographic Category 5 (Flat topped hill, H=220', L=1670', x=0')
0.18 earthquake spectral response acceleration at short periods (S_s)
Earthquake Site Class D

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The ultimate design wind speed is converted to a nominal design wind speed for use in ANSI/TIA 222-G based upon the following formula:

 $V_{asd} = V_{ult} * (0.6)^{1/2}$ = 125 * (0.6)^{1/2} = 97 mph

Seismic effects need not be considered as the value of Ss is less than 1.0 per Section 2.7.3 of ANSI/TIA 222-G. Load and resistance factors used to evaluate the adequacy of the structure were in accordance with ANSI/TIA 222-G.

#### E. <u>METHOD OF ANALYSIS</u>

The analysis was performed using tnxTower, a computerized program which idealizes the tower as a structure consisting of finite elements, and subjected to simultaneous transverse and axial loads.

#### F. <u>RESULTS</u>

The results of the analysis show the following ratings:

COMPONENT	SPAN	RATING %
Tower top		30
	Cantilever	33
	6	105
	5	154
Leg compression	4	105
	3	92
	2	103
	1	103
	Cantilever	30
	6	46
	5	11
Leg tension	4	
	3	
	2	
	1	
	Cantilever	52
	6	105
	5	87
Diagonals	4	80
	3	88
	2	107
	1	92

#### STAINLESS A BUSINESS OF FDH VELOCITEL

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		Rev.	Date	Description
	Cantilever		4	52
	6		Ç	93
	5		8	87
Horizontals	4		(	65
	3		(	52
	2		(	59
	1		(	67
	6		8	87
	5		8	82
Curro	4		8	86
Guys	3		-	75
	2		-	72
	1	70		70
	Tower base		1	47
Foundations	Inner anchors		(	94
	Outer anchors		2	46

The rating is defined as the percentage of the component design capacity that is used up in supporting itself and the loading from the antennas and transmission lines under the design wind and ice loading conditions. Ratings of up to 105% are considered acceptable due to tolerances in calculating the applied loads on the tower as well as component design capacities.

A second set of tower and foundation modifications have also been shown in the following section for a maximum acceptance rating of 100%.

Foundations have been reviewed based upon the original geotechnical information dated 7/19/1976 and 4/23/1979 by Clarence Welti Associates, Inc., and a geotechnical report dated 19/1/199 by Haley and Aldrich, Inc. for an adjacent tower site.

#### G. <u>CONCLUSIONS AND RECOMMENDATIONS</u>

Based on the preceding results, the following conclusions may be drawn:

- 1. The tower, supporting the equipment as specified in section C of this report, is not adequate to achieve an ultimate design wind speed of 125 mph with no ice, and 50 mph nominal design wind speed with 1" design ice thickness in accordance with the 2016 Connecticut State Building Code, and ANSI/TIA 222-G with the analysis parameters of Section D.
- 2. In order for the tower to achieve an ultimate design wind speed of 125 mph with no ice, and 50 mph nominal design wind speed with 1" design ice thickness in accordance with the 2016 Connecticut State Building Code, and ANSI/TIA 222-G with the analysis parameters of Section D for a maximum rating of 105%, the following modifications are required:

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	7	

- a. Strengthen the tower base. It is assumed there are no physical obstructions preventing the tower base remediation.
- b. Adjust the initial tension in all guy levels.
- c. Install additional horizontal sub-bracing at the midpoints of the following bays:

Location	No. of bays
779.6' – 760.9'	3
754.6' – 729.6'	4
692.1' - 679.6'	2
271.3' - 265.0'	1

d. Replace the existing diagonal braces at the following locations with higher capacity members:

Location	No. of bays
1010.9' – 998.4'	2
290.0' - 277.5'	2

- 3. In order for the tower to achieve an ultimate design wind speed of 125 mph with no ice, and 50 mph nominal design wind speed with 1" design ice thickness in accordance with the 2016 Connecticut State Building Code, and ANSI/TIA 222-G with the analysis parameters of Section D for a maximum rating of 100%, the following modifications are required:
  - a. Strengthen the tower base. It is assumed there are no physical obstructions preventing the tower base remediation.
  - b. Adjust the initial tension in all guy levels.
  - c. Install additional horizontal sub-bracing at the midpoints of the following bays:

Location	No. of bays
779.6' – 760.9'	3
754.6' – 729.6'	4
698.4' – 679.6'	3
654.6' - 648.4'	1
604.6' - 598.4'	1
365.0' - 358.8'	1
271.3' – 233.8'	6
183.8' – 158.8'	4
10.0' - 0.0'	1

d. Remove existing sub-bracing and install reinforcing to the legs at the following bays:

Location	No. of bays
948.4' - 935.9'	2
717.1' – 704.6'	2

e. Replace the existing diagonal braces at the following locations with new, higher capacity members:

Location	No. of bays
1010.9' – 998.4'	2
290.0' - 271.3'	3

Rev.	Date	Description
	7	

4. After the modifications are completed, the tower twist and sway at the elevations of the proposed dish under a service wind speed of 60 mph are as follows:

Dich	Elay ft	Twist, degrees		Sway, degrees	
DISII	Elev, II.	105%	100%	105%	100%
4' dish/radome	350	0.59	0.61	0.10	0.10
4' dish/radome	320	0.54	0.56	0.08	0.09
6' dish/radome	100	0.24	0.24	0.10	0.10

#### H. PROVISIONS OF ANALYSIS

The analysis performed and the conclusions contained herein are based on the assumption that the tower has been properly installed and maintained, including, but not limited to the following:

- 1. Proper alignment and plumbness.
- 2. Correct guy tensions.
- 3. Correct bolt tightness.
- 4. No significant deterioration or damage to any component.

Furthermore, the information and conclusions contained in this Report were determined by application of the current "state-of-the-arts" engineering and analysis procedures and formulae, and Stainless assumes no obligations to revise any of the information or conclusions contained in this Report in the event that such engineering and analysis procedures and formulae are hereafter modified or revised. In addition, under no circumstances will Stainless have any obligation or responsibility whatsoever for or on account of consequential or incidental damages sustained by any person, firm or organization as a result of any information or conclusions contained in the Report, and the maximum liability of Stainless, if any, pursuant to this Report shall be limited to the total funds actually received by Stainless for preparation of this Report.

Customer has requested Stainless to prepare and submit to Customer an engineering analysis with respect to the Subject Tower and has further requested Stainless to make appropriate recommendations regarding suggested structural modifications and changes to the Subject Tower. In making such request of Stainless, Customer has informed Stainless that Customer will make a determination as to whether or not to implement any of the changes or modifications which may be suggested by Stainless and that Customer will have any such changes or modifications made by riggers, erectors and other subcontractors of Customer's choice.

Customer hereby agrees and acknowledges that Stainless shall have no liability whatsoever to Customer or to others for any work or services performed by any persons other than Stainless in connection with the implementation of any structural changes or modifications recommended by Stainless including but not limited to any services rendered for Customer or for others by riggers, erectors or other subcontractors. Customer acknowledges and agrees that any riggers, erectors or subcontractors retained or employed by Customer shall be solely responsible to Customer and to others for the quality of work performed by them and that Stainless shall have no liability or responsibility whatsoever as a result of any negligence or breach of contract by any such rigger, erector or subcontractor.

![](_page_42_Figure_0.jpeg)

![](_page_42_Picture_1.jpeg)

![](_page_43_Figure_0.jpeg)

## Attachment 3

![](_page_45_Figure_0.jpeg)

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2012.

![](_page_46_Picture_1.jpeg)

Information on the Property Records for the Municipality of Farmington was last updated on 2/13/2018.

### Property Summary Information

Parcel Data And Values	Building 👻	Outbuildings	Sales	Google Map

## Parcel Information

Location:	200 COLT HIGHWAY	Property Use:	Industrial	Primary Use:	Utility Building
Unique ID:	03750200	Map Block Lot:	0141 7B	Acres:	10.00
490 Acres:	0.00	Zone:	EE	Volume / Page:	0554/0608
Developers Map / Lot:		Census:	4602-02		

### Value Information

	Appraised Value	Assessed Value
Land	600,000	420,000
Buildings	291,886	204,320

	Appraised Value	Assessed Value
Detached Outbuildings	0	0
Total	891,886	624,320
	<b>Owner's Information</b>	
	Owner's Data	
	OUTLET BROADCASTING INC	
	E-PROPERTY TAX DEPT 201	
	ONE COMCAST CENTER,32ND FL	

Back To Search (JavaScript:window.history.back(1);)

Print View (PrintPage.aspx?towncode=052&uniqueid=03750200)

Information Published With Permission From The Assessor

![](_page_48_Figure_0.jpeg)

Disclaimer: This map is for informational purposes only. All information is subject to verification by any user. The Town of Farmington and its mapping contractors assume no legal responsibility for the information contained herein. Attachment 4

## FedEx

Shipment Receipt

#### Address Information Ship to:

06110

2025246401

US

Ship from: Anthony Flores c/o NBC Universal - WVIT Outlet Broadcasting Inc 21 Ridgecrest Drive Attn: Jim Moyer 1422 New Britain Ave Napa, CA WEST HARTFORD, CT 94558 US 7078121311

#### Shipment Information:

Tracking no.: 771487090551 Ship date: 02/15/2018 Estimated shipping charges: 63.78 USD

#### **Package Information**

Pricing option: FedEx Standard Rate Service type: Standard Overnight Package type: FedEx Box Number of packages: 1 Total weight: 2 LBS Declared Value: 0.00 USD Special Services: Pickup/Drop-off: Drop off package at FedEx location

#### **Billing Information:**

Bill transportation to: Your reference: P.O. no.: Invoice no .: Department no .:

Thank you for shipping online with FedEx ShipManager at fedex.com.

**I STREE INCLUE** FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and the timely claim. Limitations found in the current FedEx Service Guida apply. Your right to recover from FedEx for any loss, including intrinaic value of the package, loss of sales, income interest, profit, attorney's your actual loss and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for facens of a sales, including intrinaic value of the package, loss of sales, income interest, profit, attorney's extraordinary value is \$1000, e.g., jaweiry, precious metals, negotiable instruments and other fams listed in our Service Guide or extraordinary value is \$1000, e.g., jaweiry, precious metals, negotiable instruments and other fams listed in our Service Guide on actual weight, dimensions, and other factors. Consult the applicable <u>FedEx Service Guide</u> or the FedEx Rate Sheets for details on how shipping charges are calculated. etails

#### Shipment Receipt

Ship to:	Ship from:
Melanie Bachman	Anthony Flores
Connecticut Siting Council Ten Franklin Square	21 Ridgecrest Drive
NEW BRITAIN, CT	Napa, CA
06051	94558
US	US
8608272935	7078121311

#### Shipment Information:

Fedex.

Tracking no.: 771487143033 Ship date: 02/15/2018 Estimated shipping charges: 63.78 USD

#### **Package Information**

Pricing option: FedEx Standard Rate Service type: Standard Overnight Package type: FedEx Box Number of packages: 1 Total weight: 2 LBS Declared Value: 0.00 USD Special Services: Pickup/Drop-off: Drop off package at FedEx location

#### **Billing Information:**

Bill transportation to: Your reference: P.O. no.: Invoice no .: Department no .:

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FedEx will not be responsible for any claim. Limitations found in the current FedEx Service Guide apply. Your right to resover from FedEx for any loss, including intrinate value of the package, loss of sales, income interest, profit, attorney's
rea, costs, and other forms of damage whether direct, includent, includent, includent and whether direct, includent, inclu

## Fedex.

Shipment Receipt

#### Address Information Ship from: Ship to: Anthony Flores William Warner Town of Farmington 21 Ridgecrest Drive 1 Monteith Drive Napa, CA FARMINGTON, CT 94558 06032 US US 7078121311

#### Shipment Information:

8606752325

Tracking no.: 771487139968 Ship date: 02/15/2018 Estimated shipping charges: 63.78 USD

#### **Package Information**

Pricing option: FedEx Standard Rate Service type: Standard Overnight Package type: FedEx Box Number of packages: 1 Total weight: 2 LBS Declared Value: 0.00 USD Special Services: Pickup/Drop-off: Drop off package at FedEx location

#### **Billing Information:**

Bill transportation to: Your reference: P.O. no.: Invoice no .: Department no .:

Thank you for shipping online with FedEx ShipManager at fedex.com.

I ICENT 1998 FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-defivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document FedEx will not be responsible for any claim in excess of \$100 per package, whether directly and the resource from FedEx for any loss, including initinatio value of the package, loss of sales, income interest, profit, attorney's your actual lose and ther forms of damage whether direct, incledenta, consequential, or special is initiated to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss, Maximum for items of reso, costs, and other forms of damage whether direct, incledenta, consequential, or special is initiated to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss, Maximum for items of advanced intry value is \$1000, e.g., jeweiry, precious metals, negotiable instruments and other times isled in our service Guide on actual weight, dimensions, and other fractions. Consult the applicable <u>FedEx Service Guide</u> or the FedEx Ret Sheets for details on how shipping charges are calculated.

#### Shipment Receipt FedEx.

Address Information	
Ship to:	Ship from:
Kathleen Eagen	Anthony Flores
City of Farmington 1 Monteith Drive	21 Ridgecrest Drive
FARMINGTON, CT	Napa, CA
06032	94558
US	US
8606752325	7078121311

#### Shipment Information:

Tracking no.: 771487164991 Ship date: 02/15/2018 Estimated shipping charges: 63.78 USD

#### **Package Information**

Pricing option: FedEx Standard Rate Service type: Standard Overnight Package type: FedEx Box Number of packages: 1 Total weight: 2 LBS Declared Value: 0.00 USD Special Services: Pickup/Drop-off: Drop off package at FedEx location

#### **Billing Information:**

Bill transportation to: Your reference: P.O. no.: Invoice no .: Department no .:

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