

Board of Adjustment

Meeting Agenda February 20, 2018 following the Planning Board

Council Chambers, 201 S Main St

- 1. Approve minutes of the December 19, 2017 meeting
- 2. New Business
 - A. Truby Cell Tower. An application for a variance for the restriction regarding addition of antenna on a Communications Tower located at 1360 Truby Drive.
- 3. Public comment on non-agenda items

A complete agenda packet is available at www.cityofgraham.com

CITY OF GRAHAM BOARD OF ADJUSTMENT December 19, 2017

There was a called meeting of the Board of Adjustment on Tuesday, December 19th, 2017 at 7:00 pm immediately following the Planning Board meeting. Members present were as follows: Ricky Hall, Bonnie Blalock, Michael Benesch, Dean Ward, Eric Crissman and Justin Moody Staff members present were Nathan Page Planning Director, Alexa Powell City Planner, Aaron Holland, Assistant City Manager and Debbie Jolly, Zoning/Inspections Technician.

Chair Ricky Hall called the meeting to order, explained the function of the Board and gave the invocation.

- 1. Ricky Hall made a motion to approve the minutes from the May 16th meeting, second by Bonnie Blalock. All voted aye.
- 2. Swearing in of new members
 - a. Michael Benesch, Eric Crissman, and Justin Moody were sworn in as members of the Board of Adjustment. Mr. Crissman and Mr. Moody then left, as they are alternates and there were five members present.
- 3. New Business
 - A. VR1702 Whitfield Towing. An application for a variance for the restriction regarding construction of commercial structures in a residential zone. Swearing in of Nathan Page and Ted Wagoner. Nathan Page explained the rules regarding Quasi-Judicisial Hearings, including providing a copy of a memo from Keith Whited to the City Council regarding a quasi-judicial Special Use Permit dated February 1, 2008. Mr. Page asked Mr. Hall to poll the Board to see if there are any conflicts of interest, and both Mr. Ward and Mr. Benesch indicated that they had known the Whitfields, but were not engaged in financial dealings. As such, the Board determined there were no conflicts.

Ted Wagoner 5352 Osprey Dr. Mebane N.C. 27302 made a presentation on behalf of the Whitfield. After a lengthy conversation between board members and Mr. Page it was stated that the owner could file for a rezoning on this property in order to become a conforming use. Mr. Wagoner stated the Whitfields did not want to rezone property. Mr. Hall stated that if this was in the county it would not be allowed, it would be concerned a junk yard. Mike Benesch made a statement that this board did not have a right to approve the variance as presented in the State of North Carolina due to the statues. Nathan stated that he believed the only option was to rezone. Bonnie Blalock ask about the home on the property while being zoned commercial. Mr. Page stated a house is permitted to remain, but if it burned down or was destroyed they would be fall under the nonconforming use section. Mr. Hall closed public input.

Mr. Ward stated that we may be the ones that are causing the hardship on Mr. Whitfield. Mr. Page stated the board would have to decide what a hardship was. Mr. Ward asked about getting an interpretation on what qualifies as a hardship. Mr. Page read a letter from Keith Whited the City Attorney stating "A request for variance is to the BOA, not to the City Staff. So, I believe that the request should be allowed to be processed to the BOA. However, I don't think it should be allowed for a number of reasons: 1. Not timely (more than a year after the other building was removed, 2. No TRC review (even though it's a stretch to call this commercial development), 3. No hardship in the size, location or topography of the property, etc."

Mr. Hall made for a motion to deny and Mike Benesch seconded the motion 3 voted aye, Mr. Ward and Ms. Blalock opposed. Mr. Hall stated to Mr. Wagoner he was sorry but it was denied. Mr. Wagoner ask about appeal and Mr. Page stated it goes to Superior Court, escalation is no longer with the prevue of the city.

The meeting was adjourned.

Respectfully Submitted, Debbie Jolly, Secretary



STAFF REPORT

Prepared by Nathan Page, Planning Director

Whitfield Towing (VR1702)

Type of Request: Variance

Meeting Dates Board of Adjustment on December 19, 2017

Summary

This is a request for a variance from the restriction regarding construction of commercial structures in residential zones.



Contact Information

Robert Whitfield P.O. Box 118, Haw River NC 27258 (336)516-1819

Location

1452 Jimmie Kerr Rd

GPIN: 8894418325

Current Zoning Low Density Residential (R-18)

Current Use Storage Yard, Single Family Home

> Surrounding Zoning I-1, R-18, PUD

Surrounding Land Uses

Single Family Houses, Alamance Community College, and Vacant

Attached is a **draft of a Resolution for the Board to consider** when making its decision. This draft Resolution <u>should</u> be modified as the Board sees fit and is only provided by staff as a template.



Application for a VARIANCE

RECEIVED

FEB ^O 5 2019 City of graham INSP. / P.Z.

P.O. Drawer 357 201 South Main Street Graham, NC 27253 (336) 570-6705 Fax (336) 570-6703 www.cityofgraham.com

Variance requests are heard by the Board of Adjustment. This is a quasi-judicial process, meaning that it is similar to a court of law. Decisions are based on evidence and testimony presented during the hearing. Applicants should submit enough evidence to support the request for a variance. Types of evidence might include maps, drawings, pictures, cost estimates, or other information that will clearly demonstrate that the four criteria for a variance, listed below, are met. Applicants should also refrain from discussing the request with any member of the Board of Adjustment.

Property on which a Variance is sought

Street Address: 1360 Truby Road
Тах Мар#: 152824 GPIN: 88945555912
Current Zoning District(s): Light Industrial (I-1)
Overlay District, if applicable:
Historic S Main St/Hwy 87 E Harden St/Hwy 54
Current Use: telecommunication tower
Property Owner: Crown Castle
Mailing Address: <u>3530 Toringdon Way, Suite 300</u>
City, State, Zip: Charlotte, NC 28277
Applicant
Property Owner Other Crown Castle
Name: Tony Stewart
Mailing Address: c/o 604 Lanford Street

City, State, Zip: Anderson, SC 29624

Phone # (864) 915-1122

Email: tstewart@telecomsite.com

I, the applicant, hereby petition the Board of Adjustment for a variance from the strict letter of the *Development Ordinance*, as described in this application.

I certify that all of the information presented by me in this application is accurate to the best of my knowledge,

information and belief 5-2018 Signature of Date

901 Office Use Only, DEVID#

Purpose of Variance Request

Describe the purpose of this variance request. What are you trying to do that the Development Ordinance is prohibiting? Attach evidence to illustrate and support your case.

Variance of distance from property lines for an existing telecommunications tower

Nature of Variance Request

List the specific part(s) of the *Development Ordinance* from which you are seeking a variance (for example, setbacks).

Section 10.70 (setbacks)

Criteria for a Variance

When unnecessary hardships would result from carrying out the strict letter of the ordinance, the Board of Adjustment shall vary any of the provisions of the ordinance upon a showing of all of the following:

- (a) Unnecessary hardship would result from the strict application of the ordinance. It shall not be necessary to demonstrate that, in the absence of the variance, no reasonable use can be made of the property.
- (b) The hardship results from conditions that are peculiar to the property, such as location, size, or topography. Hardships resulting from personal circumstances, as well as hardships resulting from conditions that are common to the neighborhood or the general public, may not be the basis for granting a variance.
- (c) The hardship did not result from actions taken by the applicant or the property owner. The act of purchasing property with knowledge that circumstances exist that may justify the granting of a variance shall not be regarded as a self-created hardship.
- (d) The requested variance is consistent with the spirit, purpose, and intent of the ordinance, such that public safety is secured, and substantial justice is achieved.



Application for a VARIANCE

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Tax Map#: 1528	324	GPIN:	
		GFIN.	

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Current Use: telecommunication tower

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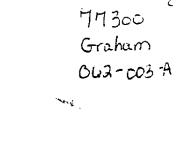
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Section 10.70 (setbacks)

Criteria for a Variance

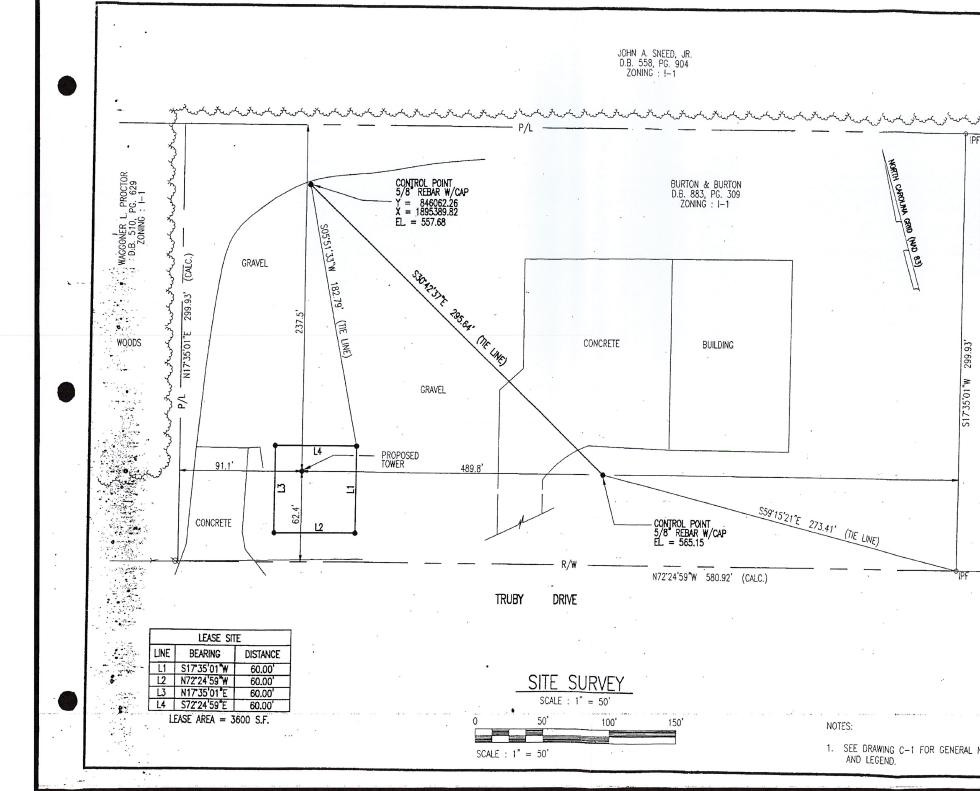
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City of Graham Certificate of Occupancy This certificate is issued to <u>feellsouth</u> who has complied with all provisions set forth with the issue of Building Permit No. <u>761</u> to erect-alter said building at <u>1356 Truby Drive</u>, to be used as a <u>Communications tower</u>.

<u>11-11-96</u> Date of Issue Building Inspector



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NER L. PROCTI 510, PG. 629 NING : 1-1	A 10/2/95 USS OWNER NO. DATE REVIS	ED FOR CONSTRUCTION LOB UED FOR PERMITTING, WX. ER'S REVIEW AND BDDS HON DESCRIPTION BT CAL
· WAGGO D.B. ZO	Carolina	L SOUTH as PCS, L.P.
		HAW
	SITE	5 SURVEY
	Pictures ABCHITECT 2301 Rexects Drive Port Office Box 31388,	19 202 19 PLATINEES 19 PLATI
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	NOT FOR R	IARY PLAT RECORDATION, CONVEYANCES.
esta - s	PROJECT MANAGER J. GARCEAU LEAD DESIGN PROF. DRAWN W. KENT	DEPARTMENT MANAGER A. HALL C. CHECKED. G. STROUT DATE 10/2/95
NOTES	PROJECT NUMBER 22597-16	DRAMING NUMBER C-2

CITY OF GRAHAM PERMIT TO BUILD

Permit Date: 06/14/00

FROM

05-2000 5:35PM

Permit #: 1964

Permission has been granted to NEXTEL COMMUNICATIONS to ALTER a n/a story, 0 room, n/a bath Building located at 1360 TRUBY DR at an estimated Cost of \$ 50,000.00.

This Building is to be altered, erected or moved in accordance with the ordinances of the CITY OF GRAHAM, N.C. and the General Building Laws of the STATE OF NORTH CAROLINA, as they relate to construction, health, and safety.

The size of the Building is: SEE FILE PLANS. The size of the Lot is: SEE FILE PLANS, Census: Setback-Front: 15 Side: 15 Rear: 15 Tax Map: 13-14-52

Category: A Residential/Commercial/Public: CO Zone: I-1

Contractor: R & R COMM Phone #: 770 483 2173

. . . .

Useage: CO-LOCATION/COMM.TOWER

General License #:			Building Fee:	168.00
Electrcal Contr:	GODFREY	ELEC	Driveway Fee:	0.00
Heating Contr:			Sign Fee:	0.00
Plumbing Contr:			Home Recovery:	0.00
Insultn Contr:			Sewer/Water Tap:	0.00
			Set Meter:	0.00
			Total Fee:	168.00

Flood:N Flood Panel: Base Flood Elevation:

Flood Zone: Reg Finish Floor Elev:

Elevation Certificate:N Engineer:

A permit shall expire six (6) months after the date of issuance if the work authorized by the permit has not been commenced. If after commencement, the work is discontinued for a period of twelve(12) months the permit shall expire. Work authorized by any permit that has expired shall not continue until a new permit has been secured.

City Inspector

813377

CITY OF GRAHAM ELECTRICAL PERMIT

Elec Permit#: 2828 Bldg Permit#: 1964 Date: 06/14/00

Contractor: GODFREY SERVICES New/Existing: Ε Address: 704 596 0584 License #: 10594 Residential/Commercial:

Owner: NEXTEL COMMUNICATIONS Address: 1360 TRUBY DR

Architect/Engineer:

Saw Service:

Miscellaneous: 200 AMP SERVICE

Misc. Appliances:

Size of Service: 50.00

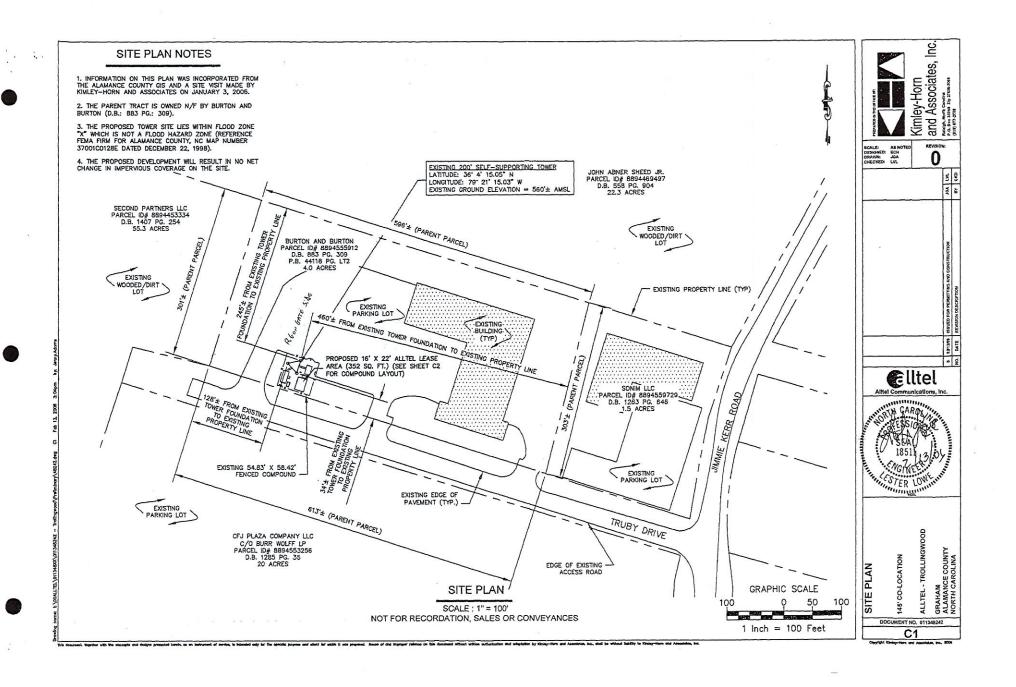
Fee: 50.00

CO

The applicant hereby agrees to begin the work herein specified at once. The Electrical Contractor agrees to notify the Electrical Inspector immediately upon completion of the above work so a final inspection may be made as required by law.

Inspect

7-05-2000 5:34PM FROM	P. 3
100	(BUN 813377 Inspections/ Sign Bus Type Permits
GRAH	AM. N. C. 570-6705
BUILDING INSPEC	HUN DEPARTMENT
N01	FICE
PERMIT NO. 1964 OWNER Nexte	DATE 6-14-00 Communications
	City Inspector
REQUIRED	INSPECTIONS
BUILDING INSPECTIONS	PLUMBING INSPECTIONS
Footing	Rough
Foundation	Final
Framing	
Final	Rough
ELECTRICAL INSPECTIONS	Final
Saw Service	INSULATION
Rough	Rough
Final	Final





Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 2601 Meacham Boulevard Fort Worth, TX 76137 Aeronautical Study No. 2012-ASO-821-OE Prior Study No. 2011-ASO-2466-OE

Issued Date: 03/05/2012

Lisa Minney Crown Castle for ATT 2000 Corporate Drive Canonsburg, PA 15317

****DETERMINATION OF NO HAZARD TO AIR NAVIGATION FOR TEMPORARY STRUCTURE****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:Crane 813377/Haw RiverLocation:Graham, NCLatitude:36-04-24.81N NAD 83Longitude:79-21-15.02WHeights:559 feet site elevation (SE)217 feet above ground level (AGL)776 feet above mean sea level (AMSL)

This aeronautical study revealed that the temporary structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is (are) met: As a condition to this Determination, the structure is marked/lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, flags/red lights - Chapters 3(Marked),4,5(Red),&12.

This determination expires on 09/05/2013 unless extended, revised or terminated by the issuing office.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates and heights. Any changes in coordinates and/or heights will void this determination. Any future construction or alteration, including increase to heights, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of a structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this temporary structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

A copy of this determination will be forwarded to the Federal Aviation Administration Flight Procedures Office if the structure is subject to the issuance of a Notice To Airman (NOTAM).

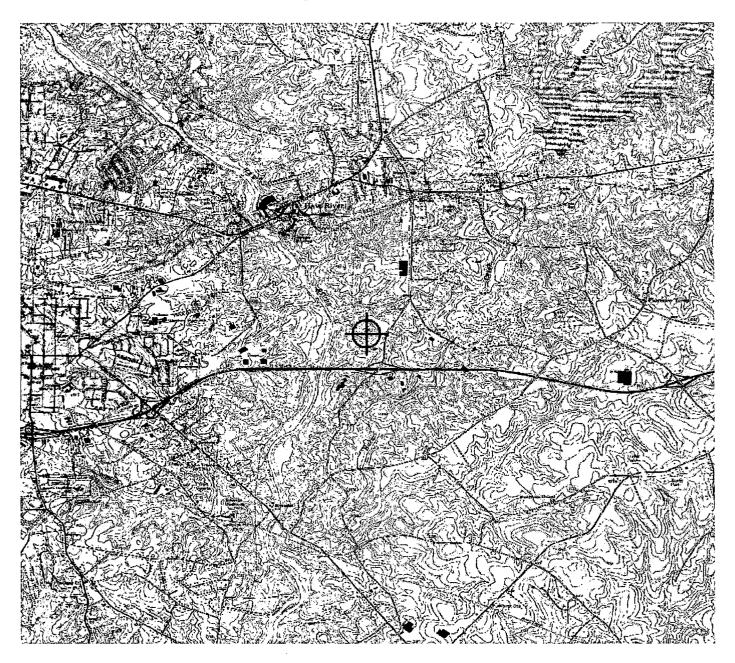
(TMP)

If you have any questions, please contact our office at (816) 329-2508. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2012-ASO-821-OE

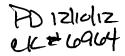
Signature Control No: 158684975-159982551 Vee Stewart Specialist

Attachment(s) Map(s)

TOPO Map for ASN 2012-ASO-821-OE



CITY OF GRAHAM Permit to Build (336) 570-6705



Permit Date:	12/6/2012		F	Permit #:	4955
Permission has bee	n granted to C	RÓWN CASTL	E to ALTER		
a story, room, bath B					
at an Estimated Cost o					
Subdivision:	. ,	I	Lot #:		
This Building is to b of the CITY OF GRAH/ NORTH CAROLINA, a	AM, N.C. and t	he General Bui	lding Laws o	of the STATE	
The size of the Building	g is:	Squ	are Footage):	
The size of the Lot is:		Census	S:	GPIN: 88	94555912
Setback-Front: N/A	Left: N/A	Right: N/	A Reai	r: N/A Tax M	1ap: 13-14-52
Category: A	Residentia	al/Commercial/F	Public:	CO	Zone: 11
Contractor: M & B C Phone #: 919-992	CONSTRUCTIC 2-9320	DN U	seage: RE	MOVE & REP	LANT&CABINET
			Bui	Iding Fee:	\$87.00
General License #:	29888		Driv	veway Fee:	\$0.00
Electrical Contr:	J & W ELEC	TRIC	Sig	n Fee:	\$0.00
Heating Contr #1:			Hoi	me Recovery:	\$0.00
Heating Contr #2:			Wa	ter Tap:	\$0.00
Plumbing Contr:			Sev	wer Tap:	\$0.00
Insulation Contr:			Set	Meter:	\$0.00
			Wa	ter Conn:	\$0.00
			Sev	wer Conn:	\$0.00
			Tot	al Fee:	\$87.00
Flood: N Flood P	anel:		Flood	Zone:	
Base Flood Elevation:		Req Fin	ish Floor Ele	ev:	
Elevation Certificate:	False Eng	gineer:			

A permit shall expire six (6) months after the date of issuance if the work authorized by the permit has not been commenced. If after commencement, the work is discontinued for a period of twelve (12) months the permit shall expire. Work authorized by any permit that has expired shall not continue until a new permit has been secured.

Signed: City Inspector

REMOVE & REPLACE ANTENNAS & CABINET AT CELL TOWER

AT&T ECA/WCA LTE 3C/4C FIRSTNET - MASTEC **PROPOSED EQUIPMENT UPGRADES**



AT&T SITE ID: 062-003 TOWER OWNER ID: 813377

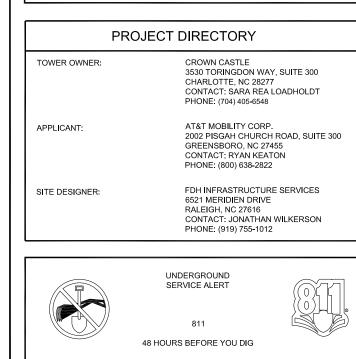


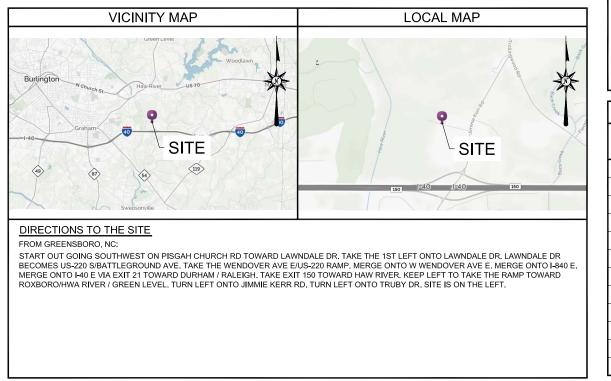
SITE ADDRESS:

1360 TRUBY DR GRAHAM, NC 27258 (ALAMANCE COUNTY)

SITE TYPE:	UPGRADE
TYPE OF OCCUPANCY:	TELECOMMUNICATIONS
TOWER TYPE:	SELF SUPPORT
TOWER LATITUDE:	36° 4' 24.81"
TOWER LONGITUDE:	-79° 21' 15.03"
ZONING JURISDICTION:	CITY OF GRAHAM
COUNTY:	ALAMANCE
PARCEL NUMBER:	152824
POWER COMPANY:	DUKE ENERGY
	(800) 777-9898
TELEPHONE COMPANY:	AT&T
	(866) 620-6000

SITE SUMMARY





CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:

- 2012 NC BUILDING CODE
- ANSI/TIA/EIA-222-G
- LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES
- FAA COMPLIANCE

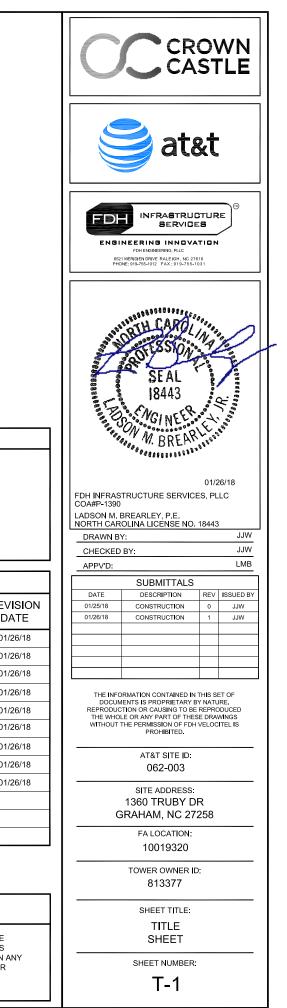
- FCC COMPLIANCE
- 2014 NEC CODE COMPLIANCE
- 2012 INTERNATIONAL FIRE CODE
- 2012 INTERNATIONAL MECHANICAL CODE
- 2015 NC EXISTING BUILDING CODE (BASED ON 2012 IEBC)

- REMOVE (6) ANTENNAS
- INSTALL (3) ANTENNAS INSTALL (6) RRUs
- SWAP DUS FOR 5216
- ADD (1) XMU03 ADD SEP7
- DECOMM EXISTING GSM
- INSTALL (1) ODN512 CABINET
- ADD (6) 30 AMP BREAKERS ADD LOWER STAINLESS STEEL DC6

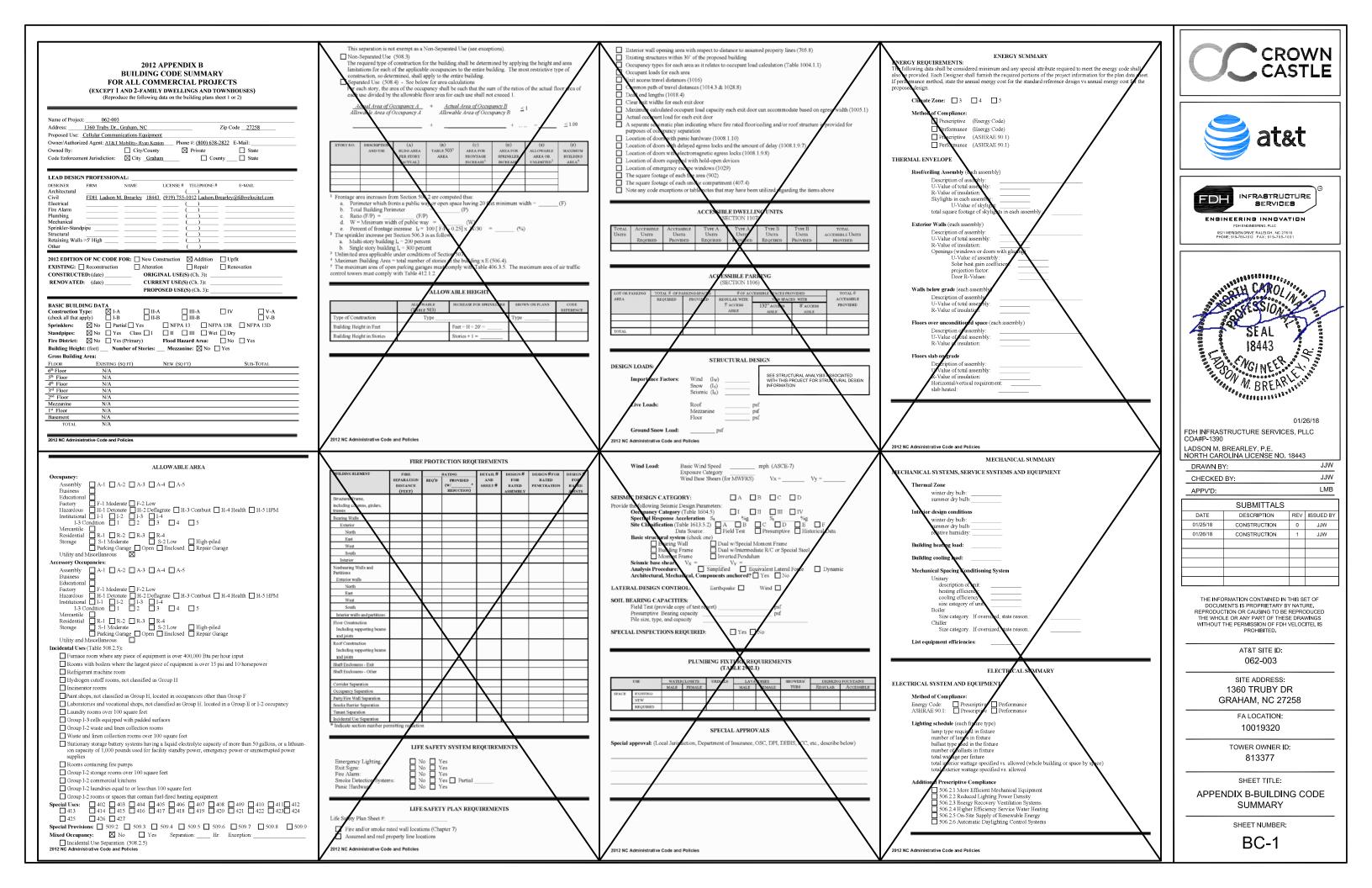
SHEET INDEX								
SHEET NO.	DESCRIPTION	REV. NO.	REVISION DATE					
T-1	TITLE SHEET	1	01/26/18					
BC-1	APPENDIX B	1	01/26/18					
G-1	GENERAL NOTES	1	01/26/18					
C-1	EQUIPMENT LAYOUT PLANS	1	01/26/18					
C-2	TOWER ELEVATION & ANTENNA LAYOUT PLANS	1	01/26/18					
C-3	FINAL RF EQUIPMENT SCHEDULE	1	01/26/18					
E-1	SERVICE ROUTING PLAN	1	01/26/18					
E-2	SINGLE LINE DIAGRAM	1	01/26/18					
E-3	RISER DIAGRAM	1	01/26/18					

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. THEREFORE HANDICAP ACCESS IS NOT REQUIRED. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.



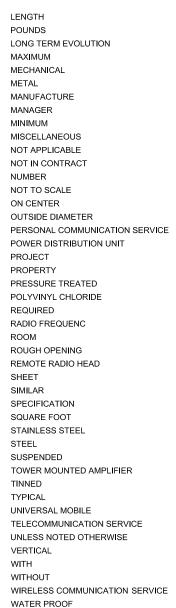
PROJECT DESCRIPTION



GENERAL NOTES: 1. ALL WORK PERFORMED AND MATERIALS INSTALLED WILL BE IN STRICT ACCORDANCE WITH ALL	 PLACE STONE TO ENSURE PROPER DRAINAGE AWAY FROM EQUIPMENT PAD. REPAIR EXISTING WEED / GEOTEXTILE MAT AS REQUIRED. 			/IATIONS
APPLICABLE CODES. REGULATIONS. AND ORDINANCES INCLUDING THE LATEST VERSIONS OF THE		A/C	AIR CONDITIONING	L
NEC AND IBC. THE CONTRACTOR WILL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS,	10. EXISTING ACCESS ROAD AND SITE TO BE RESTORED TO PRE CONSTRUCTION CONDITIONS.	AFF	ABOVE FINISHED FLOOR	LBS
ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING		AGL	ABOVE GROUND LEVEL,	LTE
THE PERFORMANCE OF THE WORK. ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE	11. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY OWNER'S			MAX
JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS, AND LOCAL AND STATE	REPRESENTATIVE.	AWS	ADVANCED WIRELESS SERVICE	MECH
		BBU	BATTERY BACKUP UNIT	MTL MFR
2. BIDDING REQUIREMENTS	12. DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP THE APPROVED CONSTRUCTION	BLDG	BUILDING	MFR
a. PRIOR TO THE SUBMISSION OF BIDS, VISIT THE JOB SITE TO BECOME FAMILIAR WITH ALL	DRAWINGS AND SUBMITTING THE REDLINED SET TO OWNER'S REPRESENTATIVE UPON COMPLETION. DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS TO BE SUBMITTED WITH	BLK CLG	BLOCKING CEILING	MIN
CONDITIONS AFFECTING THE PROPOSED PROJECT. VISIT THE SITE WITH THE CONSTRUCTION DOCUMENTS TO VERIFY FIELD DIMENSIONS AND CONDITIONS TO CONFIRM THAT THE PROJECT	REDLINED CONSTRUCTION DRAWINGS.	CLG	CLEAR	MISC
WILL BE ACCOMPLISHED AS SHOWN.		CONC	CONCRETE	NA
b. PROVIDE NOTIFICATION TO OWNER'S REPRESENTATIVE IN WRITING OF ANY CONFLICTS,	13. PROVIDE SUPPORTS FOR CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS IN	CONT	CONTINUOUS	NIC
ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF PRICE PROPOSAL. IN THE EVENT OF	ACCORDANCE WITH ALL MANUFACTURER'S REQUIREMENTS.	D	DEPTH	NO
DISCREPANCIES, PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.		DBL	DOUBLE	NTS
C. WHEN TOWER IS OWNED BY A THIRD PARTY, CONTACT TOWER OWNER REPRESENTATIVE FOR	14. A STRUCTURAL ANALYSIS AND A MOUNT ANALYSIS (IF REQUIRED) TO DETERMINE THE STRUCTURAL	DEG	DEGREE	oc
PARTICIPATION IN BID WALK.	CAPACITY TO SUPPORT THIS PROPOSED EQUIPMENT WAS PERFORMED OUTSIDE THE SCOPE OF THIS PROJECT.	Ø, DIA	DIAMETER	OD
d. WHERE ANCHORING TO A CONCRETE ROOF SLAB, CONFIRM (PRIOR TO SUBMITTING BID) THE		DIAG	DIAGONAL	PCS
PRESENCE OF POST TENSION TENDONS. INCLUDE PROVISIONS FOR X-RAY PROCEDURES TO	15. CONFIRM THAT THE REQUIREMENTS OF THE STRUCTURAL ANALYSIS, MOUNT ANALYSIS AND ANY	DN	DOWN	PDU
LOCATE THE TENDONS PRIOR TO CONSTRUCTION.	ASSOCIATED MODIFICATIONS HAVE BEEN FOLLOWED AND COMPLETED AS REQUIRED TO SUPPORT	DET	DETAIL	PROJ
	THE EQUIPMENT ASSOCIATED WITH THIS PROJECT.	DWG	DRAWING	PROP
3. DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONSTRUCTION		E	EXISTING	PT
DOCUMENTS ARE INTENDED FOR DIAGRAMMATIC PURPOSES ONLY, UNO.	SPECIAL INSPECTIONS:	EA	EACH	PVC
4. FURNISH ALL MATERIALS, EQUIPMENT, LABOR, AND ANY REQUIREMENTS NECESSARY TO	1. WHEN REQUIRED, PROVIDE SPECIAL INSPECTIONS PERFORMED BY AN INDEPENDENT INSPECTOR,	ELEV, EL	ELEVATION	REQ
4. FORNISH ALL MATERIALS, EQUIPMENT, LABOR, AND ANT REQUIREMENTS NECESSART TO COMPLETE PROJECT AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS.	APPROVED BY OWNER'S REPRESENTATIVE AND THE LOCAL JURISDICTION.	ELEC	ELECTRICAL	RF
		EQ	EQUAL	RM
5. SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONSTRUCTION DOCUMENTS. PROVIDE	2. THE SPECIAL INSPECTOR SHALL PROVIDE A COPY OF THE REPORT TO THE OWNER'S	EQUIP	EQUIPMENT	RO
ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR	REPRESENTATIVE, STRUCTURAL ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL.	EXT	EXTERIOR	RRH
COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.		FIF	FIBER INTERFACE FRAME,	SHT
			FACILITY INTERFACE FRAME	SIM
6. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT		FIN	FINISH	SPEC
ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY		FLUOR	FLUORESCENT	SF
PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE		FLR	FLOOR	SS
JURISDICTIONAL CODES APPLICABLE TO THE WORK.		FT	FOOT, FEET	STL
		GA	GAUGE	SUSP
7. CONSTRUCTION COORDINATION REQUIREMENTS		GALV	GALVANIZED	TMA TND
a. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO START OF WORK.		GC GRND	GENERAL CONTRACTOR GROUND	TYP
b. OBTAIN ALL PERMITS. SCHEDULE AND COORDINATE ALL INSPECTIONS.		GSM	GLOBAL SYSTEM MOBILE	UMTS
c. PROVIDE, AT THE PROJECT SITE, A FULL, CURRENT SET OF CONSTRUCTION DOCUMENTS FOR		GYP	GYPSUM BOARD	0013
USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT. d. RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING		HORZ	HORIZONTAL	UNO
d. RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DOCUMENTS.		HR	HOUR	VERT
e. PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL		HT	HEIGHT	W/
BUSINESS.		ID	INSIDE DIAMETER	W/O
f. PROVIDE FALL PROTECTION IN ACCORDANCE WITH FEDERAL, STATE, LOCAL, AND OWNER		IN	INCH, INCHES	WCS
REQUIREMENTS.		INSUL	INSULATION	WP
g. IF FAA LIGHTING AND MARKING IS PRESENT ON SITE AND IS POWERED BY ELECTRICAL SERVICE		INT	INTERIOR	
THAT IS TO BE INTERRUPTED, MAINTAIN THE NECESSARY LIGHTS DURING CONSTRUCTION AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A DISRUPTION.				
h. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC				
WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.				
i. STRUCTURAL COMPONENTS OF ADJACENT FACILITIES SHALL NOT BE ALTERED BY THIS		1	FRUJE	
CONSTRUCTION PROJECT, UNO. ENSURE THAT EXCAVATION DOES NOT AFFECT ADJACENT				
			OWING INFORMATION HAS BEEN PR	
 SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL-APPROVED MATERIALS. IF APPLICABLE. 			TE LAYOUT INFORMATION AND ORIEI	
 k. BURIED UTILITIES MAY EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO 			KISTING TOWER, MOUNT AND EQUIPM ESIGN PACKAGE BASED ON THE APP	
CONSTRUCTION. I. COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED. REPORT			TURAL ANALYSIS TO DETERMINE THE	
POWER INSTALLATION COORDINATION SOLUTION(S) TO OWNER'S REPRESENTATIVE.			NT WAS PERFORMED FOR CROWN O	UTSIDE THE SC ENGINEERING
m. PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT MAY HAVE		b. DA	ATED: 01/18	
OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY. n. KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE				
OF ALL DIRT, DEBRIS, AND RUBBISH. REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON		ASSOCIA	I THAT THE REQUIREMENTS OF THE S TED MODIFICATIONS HAVE BEEN FO	LLOWED AND C
THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.		THE EQU	IPMENT ASSOCIATED WITH THIS PRO	JECT.
o. MAINTAIN THE INTEGRITY OF THE BUILDING ENVELOPE AND CONSTRUCT BARRIERS IN THE		1		
AREA OF WORK TO PREVENT DAMAGE FROM WEATHER AS WELL AS FROM CONSTRUCTION DUST AND DEBRIS.				

8. INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S SPECIFICATIONS, UNO, OR WHERE LOCAL CODES OR ORDINANCES DIRECT OTHERWISE.

T NOTES DED BY CROWN FOR THIS PROJECT AND HAS NOT NOITA NT ELEVATIONS

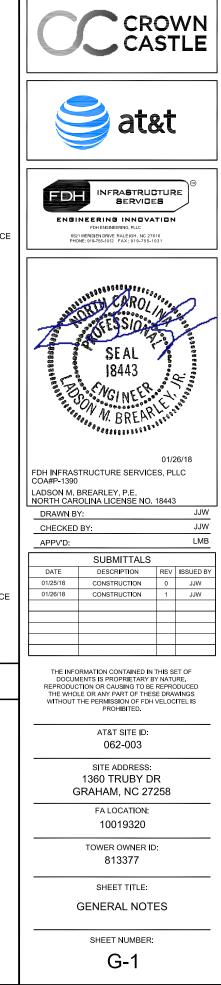


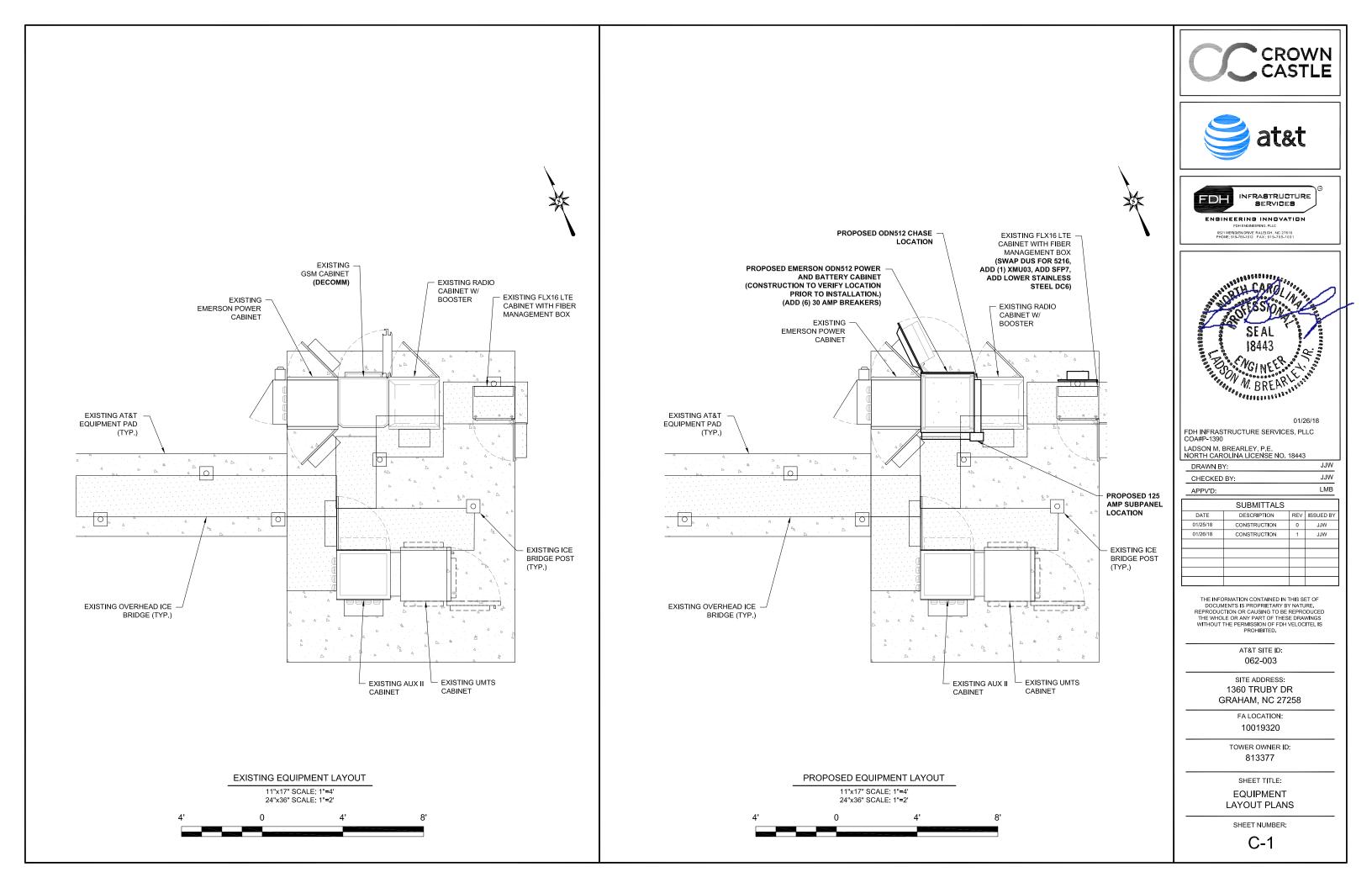
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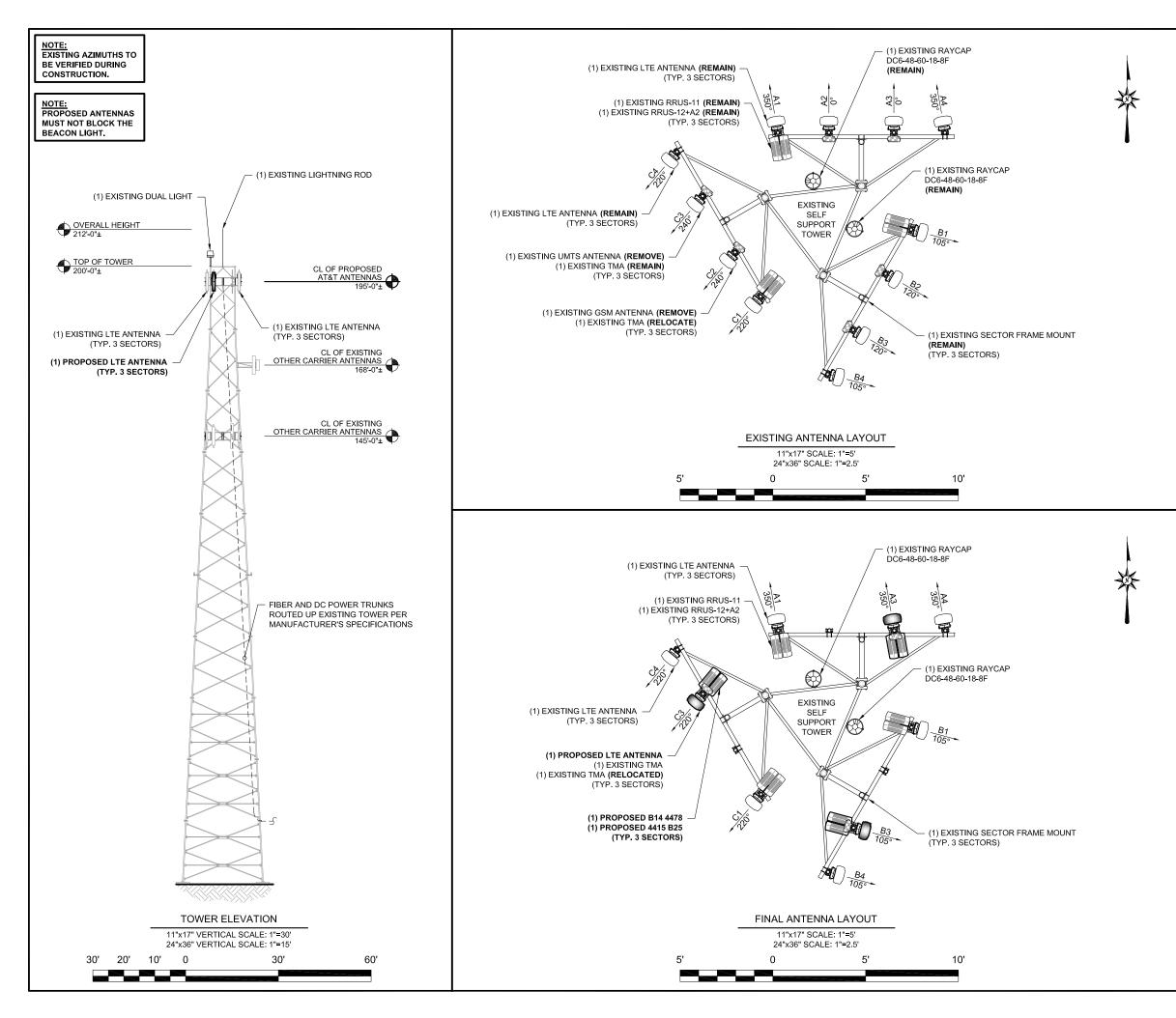
OWER CAPACITY TO SUPPORT THIS PROPOSED SIDE THE SCOPE OF THIS PROJECT. GINEERING AND ARCHITECTURE PROF. CORP.

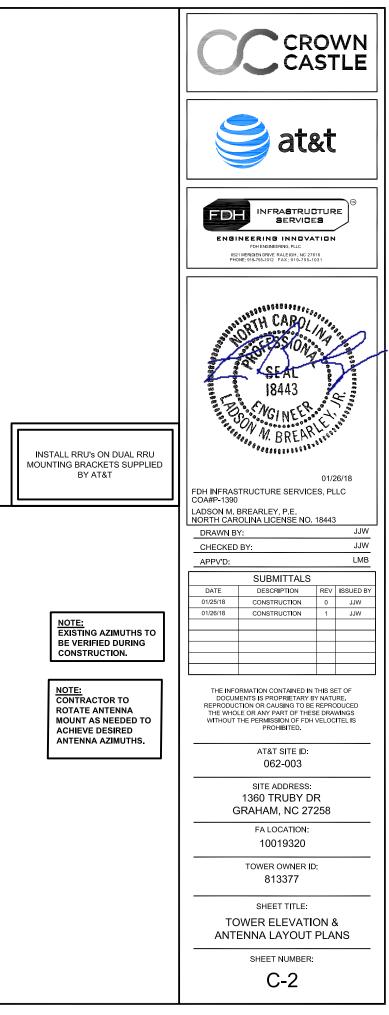
IENT CAPACITY

RUCTURAL ANALYSIS, MOUNT ANALYSIS AND ANY WED AND COMPLETED AS REQUIRED TO SUPPORT









(P) = PRC	(P) = PROPOSED FINAL ANTENNA & CABLE SCHEDULE (ALL EQUIPMENT MOUNTED ON TOWER)										
SECTOR	MARK	BAND	ANTENNA MAKE/MODEL	RAD CENTER	ANTENNA AZIMUTH	E. TILT	M. TILT	TMA QTY./TYPE	RADIO QTY./TYPE	SURGE PROTECTION QTY,/TYPE	CABLE QTY./TYPE
	A1	LTE 700/AWS	ANDREW SBNHH-1D65C	195'	350°	5°/3°	0°	-	(1) RRUS-11 (1) RRUS-12+A2	(1) DC6-48-60-18-8F	(1) 3/8" FIBER (2) DC POWER TRUNK (1) 3/8" RET (P)
	A2	-	-	-	-	-	-	-	-	-	-
ALPHA	A3	LTE 700/1900 UMTS 1900	COMMSCOPE NNH4-65B-R6 (P)	195'	350°	10°/10°/2°/2 °	0°	(2) RFS ATM192012-1	(1) B14 4478 (P) (1) 4415 B25 (P)	-	(2) 1-5/8" COAX (2) 1-5/8" COAX (INACTIVE)
	A4	LTE WCS	COMMSCOPE SBNHH-1D65C	195'	350°	1°	0°	-	-	-	-
	B1	LTE 700/AWS	ANDREW SBNHH-1D65C	195'	105°	3°/1°	0°	-	(1) RRUS-11 (1) RRUS-12+A2	(1) DC6-48-60-18-8F	(1) 3/8" FIBER (2) DC POWER TRUNK (1) 3/8" RET (P)
DETA	B2	-	-	-	-	-	-	-	-	-	-
BETA	В3	LTE 700/1900 UMTS 1900	COMMSCOPE NNH4-65B-R6 (P)	195'	105°	2°/2°/2°/2°	0°	(2) RFS ATM192012-1	(1) B14 4478 (P) (1) 4415 B25 (P)	-	(2) 1-5/8" COAX (2) 1-5/8" COAX (INACTIVE)
	B4	LTE WCS	COMMSCOPE SBNHH-1D65C	195'	105°	0°	0°	-	-	-	-
	C1	LTE 700/AWS	ANDREW SBNHH-1D65C	195'	220°	2°/2°	0°	-	(1) RRUS-11 (1) RRUS-12+A2	-	-
	C2	-	-	-	-	-	-	-	-	-	-
GAMMA	C3	LTE 700/1900 UMTS 1900	COMMSCOPE NNH4-65B-R6 (P)	195'	220°	6°/6°/2°/2°	0°	(2) RFS ATM192012-1	(1) B14 4478 (P) (1) 4415 B25 (P)	-	(2) 1-5/8" COAX (P) (1) 1-5/8" COAX (INACTIVE)
	C4	LTE WCS	COMMSCOPE SBNHH-1D65C	195'	220°	1°	0°	-	-	-	-

RESERVED ANTENNA & CABLE SCHEDULE								
ANTENNA TMA RRU/SPD CABLE								
(3) KATREIN 742-213	(2) RFS ATM192012-0	-	-					

ANTENNA NOTES: 1. THIS ANTE THE CON AZIMUTHS. REPORT. AT&T.

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TENNA ORIENTATION PLAN IS A SCHEMATIC.
NTRACTOR SHALL VERIFY TOWER

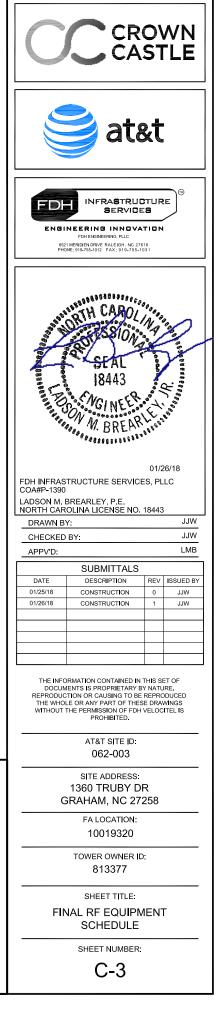
ORIENTATION AND FIELD COORDINATE REQUIRED ADJUSTMENTS TO ACHIEVE THE DESIRED ANTENNA

2. ANTENNA CENTERLINE HEIGHT REFERENCED FROM GROUND AT BASE OF TOWER, ASSUMING HEIGHT OF 0'-0" AT SAID REFERENCE POINT.

3. ALL ANTENNAS, CABLES AND MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWER ENGINEER'S RECOMMENDATIONS IN A MANNER CONSISTENT WITH THE STRUCTURAL ANALYSIS

4. ALL ANTENNA BRACKETS PER ANTENNA MANUFACTURER, OR EQUAL. CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWNTILT WITH

5. ALL ANTENNA INFORMATION TO BE CONFIRMED WITH AT&T RF DESIGN PRIOR TO INSTALLATION.



<u>GE</u>	NERAL NOTES:	[warea
1.	ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. THE CONTRACTOR WILL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK, 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.	NOTES: • CONTRACTOR S EXACT CONFIGUE OF NEW EQUIPME • UTILIZE EXISTIN
2.	CONTRACTOR SHALL VERIFY EXACT CONDUIT ROUTING AND PENETRATION LOCATIONS WITH CONSTRUCTION MANAGER AND EQUIPMENT MANUFACTURER/SPECIFICATIONS.	REFER TO SHEE
3.	REFER TO CIVIL DRAWINGS FOR EXACT ITEMS BEING REMOVED AND/OR RELOCATED.	CONTRACTOR S INCLUDED WITHIN
4.	ALL NEW CONDUITS SHALL BE FURNISHED WITH PULL STRINGS.	• CONTRACTOR T
NOT	TES BY SYMBOL:	• (SCHEDULE 80 F
(1)	EXISTING UPC CABINET	
(2)	EXISTING NOKIA RADIO CABINET	
(3)	EXISTING UMTS CABINET	
(4)	EXISTING AUZII CABINET	
5	EXISTING FIBER AND DC POWER TRUNKS FROM THE FLX16 LTE CABINET, ROUTED ACROSS ICE BRIDGE, UP THE TOWER TO THE EXISTING RAYCAP	
6	EXISTING FLX16 CABINET, FURNISHED BY AT&T AND INSTALLED BY CONTRACTOR. REFER TO INSTRUCTION MANUAL, MANUFACTURER DRAWINGS, AND SHEETS E-2 & E-3 FOR ADDITIONAL INFORMATION AND CONNECTIONS REQUIRED.	
7	EXISTING BASE SHOE AND POST FOR EXISTING FLX16 CABINET	
8	PROPOSED AT&T RAYCAP DC-6 SURGE PROTECTOR MOUNTED ABOVE EXISTING FLX16 CABINET. (CONTRACTOR TO VERIFY LOCATION PRIOR TO INSTALLATION)	
9	INSTALL DC-6 ON POLE WITH FLX16 CABINET AND GROUND TO MAIN GROUND BUS USING #6 AWG GREEN INSULATED STRANDED WIRE. WIRE ALARMS PER MANUFACTURER RECOMMENDATIONS AND AT&T INSTRUCTION MANUAL.	
10	PROPOSED EMERSON NETSURE ODN512 POWER AND BATTERY CABINET WITH PROPOSED 125 AMP SUBPANEL , FURNISHED BY AT&T AND INSTALLED BY CONTRACTOR. REFER TO INSTRUCTION MANUAL, MANUFACTURER DRAWINGS, AND SHEETS E-2 & E-3 FOR ADDITIONAL INFORMATION AND CONNECTIONS REQUIRED.	
(11)	PROPOSED ODN512 CHASE LOCATION	
(12)	PROPOSED 125 AMP SUBPANEL LOCATION	
\simeq	ROUTE ALARM SERVICE IN (1) 2" SCHEDULE 80 PVC CONDUIT ALONG ICE BRIDGE BETWEEN PROPOSED NETSURE ODN512 POWER AND BATTERY CABINET AND PROPOSED FLX16 CABINET. REFER TO SHEET E-2 FOR WIRING AND CONNECTIONS. FIELD COORDINATE TERMINATIONS IN EACH CABINET WITH MANUFACTURER'S REQUIREMENTS.	
(15)	ROUTE -48VDC POWER CONDUCTORS IN (1) 2" SCHEDULE 80 PVC CONDUIT ALONG ICE BRIDGE FROM THE PROPOSED NETSURE ODN512 POWER AND BATTERY CABINET TO THE PROPOSED POLE MOUNTED DC-6 SURGE PROTECTOR. REFER TO SHEET E-2 FOR WIRING AND CONNECTIONS. FIELD COORDINATE TERMINATIONS IN EACH CABINET WITH MANUFACTURER'S REQUIREMENTS.	
(16)	ROUTE TELCO & ALARM SERVICE IN (1) 2" SCHEDULE 80 PVC CONDUIT ALONG ICE BRIDGE BETWEEN EXISTING UPC POWER AND BATTERY CABINET AND PROPOSED FLX16 CABINET. REFER TO SHEET E-2 FOR WIRING AND CONNECTIONS. FIELD COORDINATE TERMINATIONS IN EACH CABINET WITH MANUFACTURER'S REQUIREMENTS.	
(17)	ROUTE 120/240VAC POWER CONDUCTORS IN (1) 2" IMC CONDUIT ALONG ICE BRIDGE BETWEEN PANEL INSIDE UNIVERSAL POWER CABINET (UPC) AND THE PROPOSED 125 AMP SUBPANEL ON THE PROPOSED NETSURE ODN512 POWER AND BATTERY CABINET. REFER TO SHEET E-2 FOR WIRING AND CONNECTIONS.	
(18)	ROUTE -48VDC POWER CONDUCTORS IN (1) 2" SCHEDULE 80 PVC CONDUIT ALONG ICE BRIDGE FROM THE PROPOSED NETSURE ODN512 POWER AND BATTERY CABINET TO THE PDB INSIDE EXISTING FLX16 LTE CABINET. REFER TO SHEET E-2 FOR WIRING AND CONNECTIONS. FIELD COORDINATE TERMINATIONS IN EACH CABINET WITH MANUFACTURER'S REQUIREMENTS.	
(19)	RE-FEED EXISTING AUX CABINET FROM PROPOSED NETSURE ODN512 POWER AND BATTERY CABINET WITH 150A SERVICE VIA (1) 2" SCHEDULE 80 PVC CONDUIT ROUTED ALONG ICE BRIDGE. REFER TO SHEETS E-2 AND E-3 FOR WIRING AND CONNECTIONS. FIELD COORDINATE TERMINATIONS IN EACH CABINET WITH MANUFACTURER'S REQUIREMENTS.	

CONTRACTOR SHALL REFER TO SINGLE LINE ON SHEET E-2 FOR POST-INSTALLATION CONFIGURATION OF EQUIPMENT AND WIRING. VERIFY EXACT CONFIGURATION OF EXISTING EQUIPMENT, CONDUIT LOCATIONS, AND CONNECTIONS AT TIME OF INSTALLATION. ADJUST LOCATIONS OF NEW EQUIPMENT AND WIRING AS NECESSARY BASED ON EXACT SITE CONDITIONS FOUND.

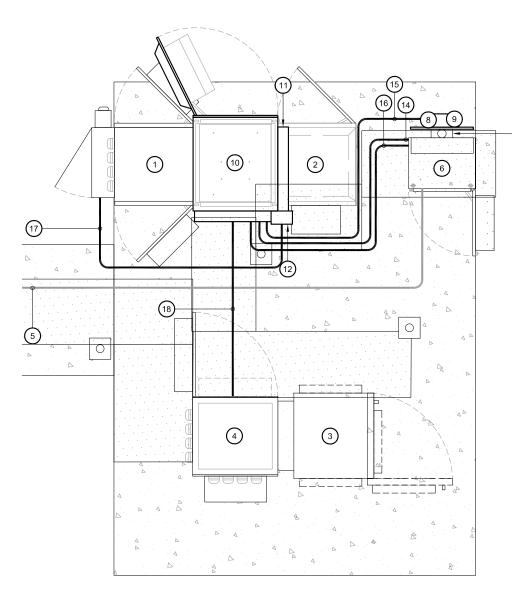
UTILIZE EXISTING UTILITIES IN PLACE TO SERVE NEW CABINETS. REFER TO SINGLE LINE ON SHEET E-2 FOR DETAILS.

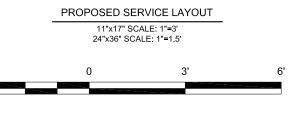
• REFER TO SHEET E-2, MANUFACTURER'S SPECIFICATIONS AND AT&T INSTALLATION MANUAL FOR GROUNDING OF EQUIPMENT.

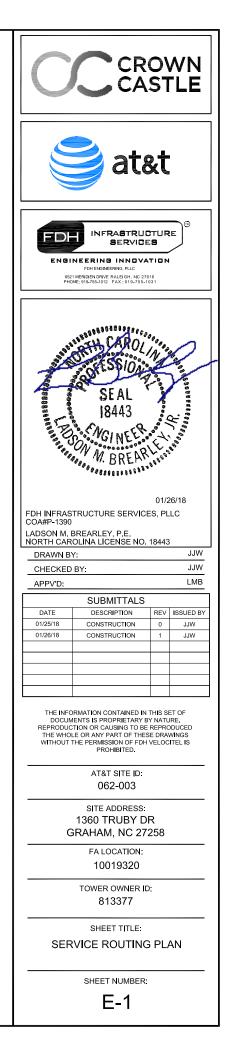
• CONTRACTOR SHALL REFER TO AT&T LTE INSTRUCTION MANUAL FOR ADDITIONAL INSTALLATION INSTRUCTIONS NOT NECESSARILY INCLUDED WITHIN THESE DRAWINGS.

• CONTRACTOR TO USE INTERMEDIATE METAL CONDUIT "IMC" FROM POWER PLANT 125A SUBPANEL TO POWER PLANT RECTIFIER SHELVES.

(SCHEDULE 80 PVC CAN BE USED IN PLACE OF THE IMC)







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GENERAL NOTES:

CONTRACTOR SHALL COORDINATE INCOMING SERVICES WITH LOCAL UTILITIES PRIOR TO TRENCHING.

- ALL CONDUCTORS SHALL BE COPPER, 75 DEGREES C RATED (MIN.), AND CONDUCTOR INSULATION SHALL BE THWN OR THHN.
- ALL TERMINATIONS SHALL BE LISTED 3 AND IDENTIFIED FOR USE WITH 75°C RATED CONDUCTORS OPERATING AT 75°C
- GROUND FAULT PROTECTION REQUIRED FOR UTILITY RECEPTACLES
- 5. SERVICE NEUTRAL SHALL BE GROUNDED AT ONE LOCATION ONLY
- WHITE/NEUTRAL, GREEN/GROUND SHALL (3) FURNISH AND INSTALL A BE MAINTAINED THROUGHOUT THE SITE ELECTRICAL SYSTEM (TAPE WILL NOT BE ACCEPTABLE)
- 7. EQUIPMENT LOCATED OUTSIDE OR EXPOSED TO MOISTURE SHALL BE NEMA 3R RATED
- CONTRACTOR SHALL USE SCHEDULE 80 PVC CONDUIT THROUGHOUT, UNLESS OTHERWISE NOTED.
- ALL NEWLY INSTALLED EQUIPMENT 9 SHALL BE RATED AT 10K AIC MINIMUM. HIGHER RATINGS SHALL BE REQUIRED WHERE AVAILABLE FAULT CURRENT EXCEEDS THIS VALUE. EXACT FAULT CURRENT AVAILABLE SHALL BE COORDINATED WITH LOCAL UTILITY BASED ON EXACT CONDITIONS (TRANSFORMER SIZE, PERCENT IMPEDANCE, LENGTH OF CONDUCTORS, ETC.)
- 10. ELECTRICAL CONTRACTOR TO VERIFY ADDITIONAL/PROPOSED LOADING DOES NOT EXCEED SYSTEM CAPACITY. PLEASE NOTIEY EDH-VELOCITEL WITH ANY DISCREPANCIES

TELCO

PLYWOOD TELCO

BACKBOARD FURNISHED

WITH POWER CABINET

(1)

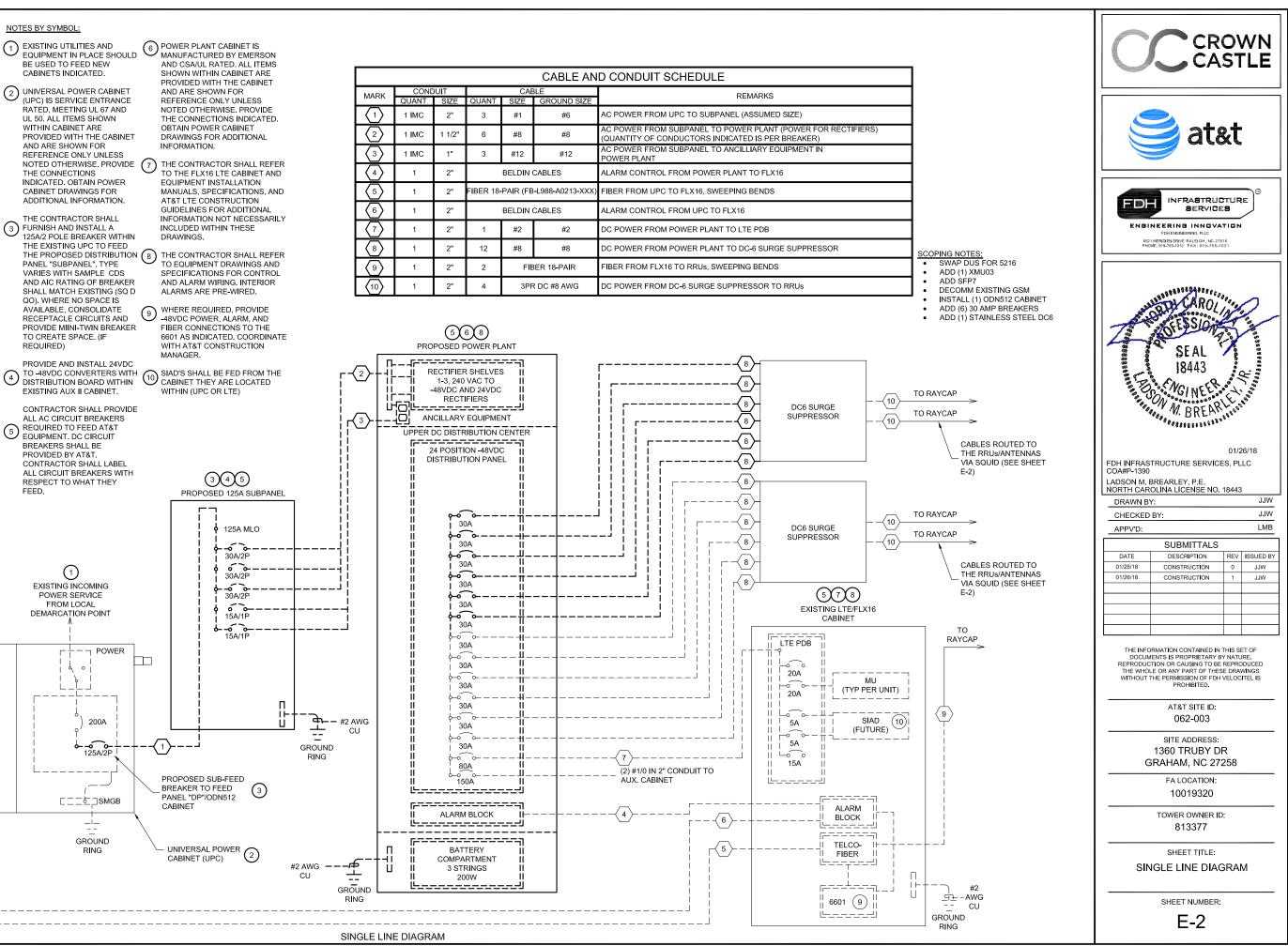
EXISTING INCOMING TELCO SERVICE

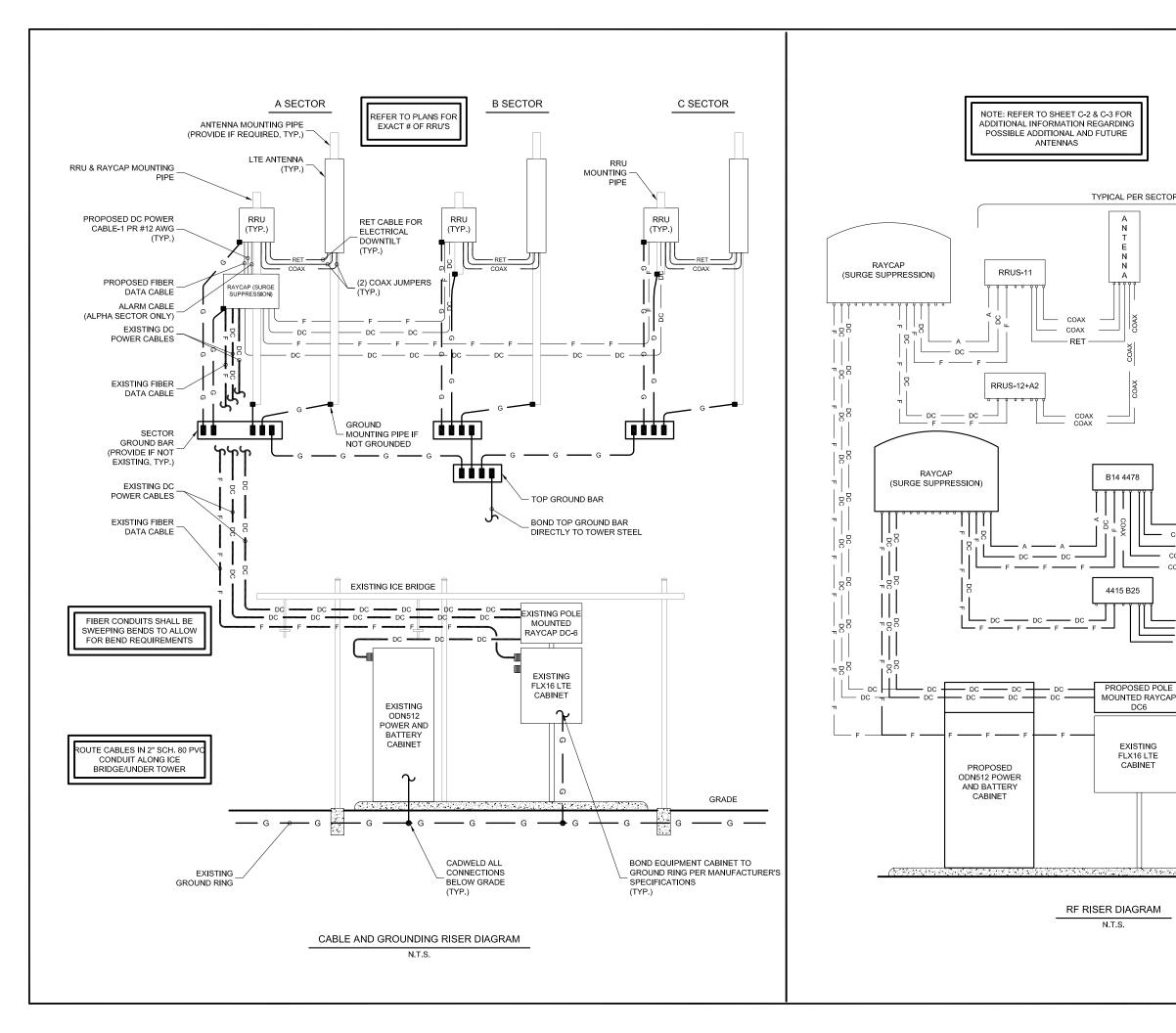
FROM LOCAL

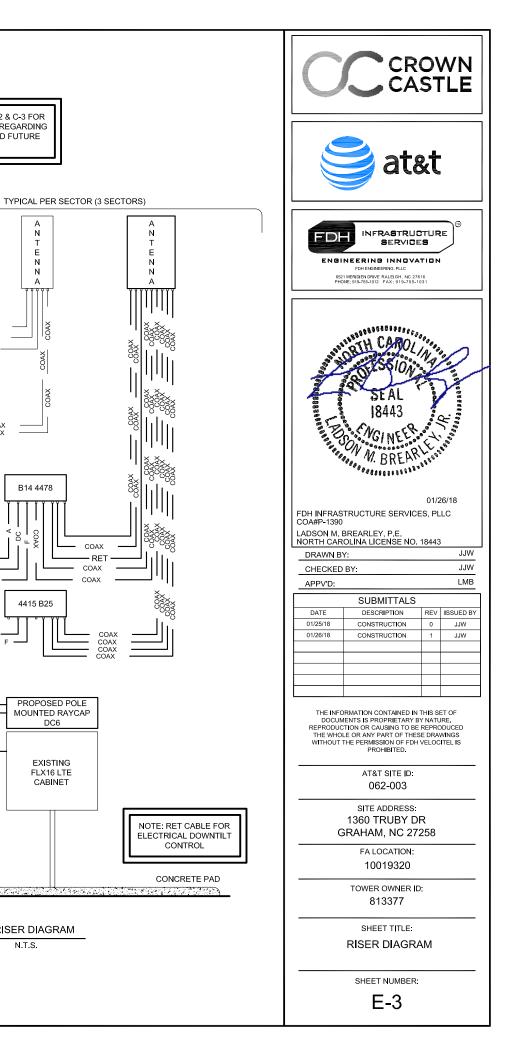
DEMARCATION POINT

MANUFACTURED BY EMERSON AND CSA/UL RATED. ALL ITEMS SHOWN WITHIN CABINET ARE PROVIDED WITH THE CABINET AND ARE SHOWN FOR REFERENCE ONLY UNLESS NOTED OTHERWISE. PROVIDE THE CONNECTIONS INDICATED. OBTAIN POWER CABINET DRAWINGS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL REFER TO THE FLX16 LTE CABINET AND EQUIPMENT INSTALLATION MANUALS, SPECIFICATIONS, AND AT&T LTE CONSTRUCTION GUIDELINES FOR ADDITIONAL INFORMATION NOT NECESSARILY INCLUDED WITHIN THESE DRAWINGS. THE CONTRACTOR SHALL REFER TO EQUIPMENT DRAWINGS AND SPECIFICATIONS FOR CONTROL AND ALARM WIRING. INTERIOR ALARMS ARE PRE-WIRED. (9) WHERE REQUIRED, PROVIDE -48VDC POWER, ALARM, AND FIBER CONNECTIONS TO THE 6601 AS INDICATED. COORDINATE WITH AT&T CONSTRUCTION MANAGER SIAD'S SHALL BE FED FROM THE WITHIN (UPC OR LTE) (3)(4)(5)PROPOSED 125A SUBPANEL 125A MLO 30A/2P (1)30A/2P

CABLE AND CONDUIT SCHEDULE CONDUIT CABLI MARK REMARKS $\left(1 \right)$ AC POWER FROM UPC TO SUBPANEL (ASSUMED SIZE) 1 IMC 2" 3 #1 #6 C POWER FROM SUBPANEL TO POWER PLANT (POWER FOR RECTIFIERS) $\langle 2 \rangle$ 1 IMC 1 1/2" 6 #8 #8 (QUANTITY OF CONDUCTORS INDICATED IS PER BREAKER) AC POWER FROM SUBPANEL TO ANCILLIARY EQUIPMENT IN (3) 1 IMC 1" #12 #12 OWER PLANT $\langle 4 \rangle$ 2" BELDIN CABLES ALARM CONTROL FROM POWER PLANT TO FLX16 $\left< 5 \right>$ FIBER 18-PAIR (FB-L988-A0213-XXX 2" FIBER FROM UPC TO FLX16. SWEEPING BENDS $\left(\begin{array}{c} 6 \end{array} \right)$ 2" BELDIN CABLES ALARM CONTROL FROM UPC TO FLX16 $\langle 7 \rangle$ 2" #2 #2 DC POWER FROM POWER PLANT TO LTE PDB $\langle 8 \rangle$ 2" 12 #8 #8 DC POWER FROM POWER PLANT TO DC-6 SURGE SUPPRESSOR $\langle 9 \rangle$ 2" FIBER 18-PAIR FIBER FROM FLX16 TO RRUS. SWEEPING BENDS 2 1 2" 3PR DC #8 AWG DC POWER FROM DC-6 SURGE SUPPRESSOR TO RRUS









Board of Adjustment Resolution of Findings of Fact, Conclusions of Law and Decision

The Board of Adjustment for the City of Graham, North Carolina, having held a public hearing on February 20, 2018 to consider case number VR1801, submitted by Tony Stewart of Anderson, SC at 604 Lanford Street, for a variance from Development Ordinance section 10.70, prohibiting the addition of new or larger antenna, and having heard all the evidence and arguments presented at the hearings, makes the following FINDINGS OF FACT and draws the following CONCLUSIONS OF LAW:

FINDINGS OF FACT

NOTE: These Findings of Fact were prepared by staff and <u>should</u> be modified by the Board as it sees fit.

- The property that is the subject of this variance request, 1360 Truby Dr., is zoned light industrial (I-1).
- 2. A site plan was completed on October 2, 1995 by Bellsouth Carolinas PCS, LP for 1360 Truby Drive, which included a proposed cellular tower. This indicates that there was a development plan in place at the time of the subsequent adoption of regulations guiding the setbacks for the tower below.
- 3. At their March 5th, 1996 meeting, the Graham City Council adopted distance from property line standards specific to cellular towers, as well as a requirement for a Special Use Permit.
- 4. A Certificate of Occupancy was issued by Joe Green, Chief Building Inspector for the City of Graham for a tower located at "1356 Truby Drive".
- 5. In 2000, Nextel was issued, by the City of Graham, a building permit and an electrical permit for colocation at this site.
- 6. In 2012, Crown Castle was issued a permit by the City of Graham to remove and replace antennas and cabinets at the site.
- The tower is 200 feet in height, and 62.4 feet from the closest property line, which happens to be a right-of-way dedicated to the City of Graham in Plat Book 44, Page 118, which was filed with the Alamance County Register of Deeds on October 2nd 1991.
- 8. The tower is a nonconforming building, as it was constructed prior to the additional setback requirements for communication towers.
- 9. No other communication towers are located within one mile of this tower.
- 10. The applicant, Crown Castle, is now proposing to remove six antennas, and install three larger antennas.

[insert additional Findings of Fact, if any are made]

CONCLUSIONS OF LAW

The Board of Adjustment shall vary any of the provisions of the ordinance upon a showing of all of the following:

NOTE: These Conclusions of Law were prepared by staff and <u>should</u> be modified by the Board as it sees <i>fit.

- 1. No change in permitted uses may be authorized by variance. Appropriate conditions may be imposed on any variance, provided that the conditions are reasonably related to the variance. Any other ordinance that regulates land use or development may provide for variances consistent with the provisions of this subsection. Under strict application of the ordinance, the applicant will be unable to enlarge the antenna on the tower. A granting of a variance from the Board of Adjustment will allow the applicant to, in effect, retroactively approve a Special Use Permit for this tower, which would allow for continued use and expansion of the existing tower.
- 2. Unnecessary hardship would result from the strict application of the ordinance. It shall not be necessary to demonstrate that, in the absence of the variance, no reasonable use can be made of the property. Under the strict application of the ordinance, the property owner would have to tear down the existing tower, apply for a Special Use Permit, and reconstruct the tower about 150 feet from the current location.
- 2. The hardship results from conditions that are peculiar to the property, such as location, size, or topography. Hardships resulting from personal circumstances, as well as hardships resulting from conditions that are common to the neighborhood or the general public, may not be the basis for granting a variance. The hardship is created by the size of the lot, which is smaller than those around it. Due to the requirement that a new cellular tower be the tower's height from a property line, there is no place on this lot where the tower could be constructed.
- 3. The hardship did not result from actions taken by the applicant or the property owner. The act of purchasing property with knowledge that circumstances exist that may justify the granting of a variance shall not be regarded as a self-created hardship. *Planning for the cellular tower started before the City of Graham adopted our current ordinance.*
- 4. The requested variance is consistent with the spirit, purpose, and intent of the ordinance, such that public safety is secured, and substantial justice is achieved. *While it is the intention of the ordinance to have new communication towers further setback from property lines, the granting of this variance would not permit a new tower, it would merely allow for additional antennae on the existing structure.*

DECISION

In exercising its powers, the Board of Adjustment may grant or deny a variance and may impose any appropriate conditions on the variance, provided that the conditions are reasonably related to the variance. The concurring vote of four-fifths of the Board shall be necessary to grant a variance.

For the above reasons, the Board of Adjustment (Grants/Denies) the variance that is the subject of this application.

Staff recommends that, the variance be approved on the aforementioned grounds.

The resolution reflects the decision of the Board of Adjustment, made the 20th day of February, 2018.

Attest:

Ricky Hall, Chair

Debbie Jolly, Secretary