

## Bailey, Heather

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**From:** Jake Rieb <jrieb@edgeconsult.com>  
**Sent:** Monday, April 22, 2019 10:52 AM  
**To:** Bailey, Heather  
**Subject:** RE: Irish Pub Telecommunications Facility - USCC - Consulting party request  
**Attachments:** 21431 FCC 621 Form.pdf

Heather,

Attached is the project information. The format is the "FCC Form 621" that we provide to SHPO on behalf of the applicant (U.S. Cellular). Please let me know if during your review if there is anything we can clarify. I know the 621 form is very standardized so may not specifically answer all of your potential concerns. Duplicates of all project information have also been updated to the FCC's E106 system under filing # 0008607577. You should hopefully have already received email notifications regarding that.

I would appreciate if you could provide a reply with any comment you have on this by May 24<sup>th</sup>. We will need to make sure any comments are also provided to the SHPO office, so we can either forward them as received, or if you are comfortable sending them directly to the SHPO office, you could do that yourself as well. Just copy me on anything you send their way. We will be submitting all the same information to SHPO today.

The proposed collocation project is upgrades to an existing antenna collocation site by U.S. Cellular. U.S. Cellular proposed to remove several existing LTE antennas and then replace them with new antennas in the same basic locations. I don't think the exact antennas models have been selected yet, but in a "worst-case" scenario the new antennas could potentially measure about 1ft wider and several feet longer than the existing/old antennas, as indicated in the project drawings. U.S. Cellular also proposes to add new "LAA" antennas measuring about 2ft square on each sector nearby existing antennas.

The existing collocation site has previously been submitted to SHPO for review and had previous determinations of "no adverse effect" to the State Street historic district and other nearby historic properties. Also, all existing antennas were originally placed in areas set back away from the primary façade and painted to match the brick in an effort to minimize visible contrast on the building. All currently proposed antennas would be similarly located and painted.

The applicant proposes a similar determination for the current upgrades of "no adverse effect" to historic properties in the APE for Direct Effects (subject building) and a determination of "no effect" on historic properties in the APE for Visual Effects. Any feedback you have on regarding potential effects to historic properties, or concerns with antenna visibility, placement, impacts, etc. would be helpful and appreciated.

Sincerely,

**Jake W. Rieb, RPA**  
Archaeologist  
624 Water Street  
Prairie du Sac, WI 53578  
<https://edgeconsult.com/>  
Office: 608-644-1449, Ext. 308  
Cell: 608-234-2896



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**From:** Bailey, Heather <HBailey@cityofmadison.com>  
**Sent:** Monday, April 22, 2019 9:26 AM  
**To:** Jake Rieb <jrieb@edgeconsult.com>  
**Subject:** RE: Irish Pub Telecommunications Facility - USCC - Consulting party request

Jake,

An email with the materials will be sufficient. Thank you!



**Heather L. Bailey, Ph.D.**  
Preservation Planner  
Neighborhood Planning, Preservation + Design Section

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Department of Planning + Community + Economic Development  
Planning Division  
215 Martin Luther King, Jr. Blvd.; Suite 017  
PO Box 2985  
Madison WI 53701-2985  
Email: [hbailey@cityofmadison.com](mailto:hbailey@cityofmadison.com) Phone: 608.266.6552

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**From:** Jake Rieb <jrieb@edgeconsult.com>  
**Sent:** Thursday, April 18, 2019 3:57 PM  
**To:** Bailey, Heather <HBailey@cityofmadison.com>  
**Subject:** RE: Irish Pub Telecommunications Facility - USCC - Consulting party request

Heather,

We are nearly ready with getting the packet information compiled this review. We will be uploading this to the FCC's E106 system soon and you will be receiving an email notification when the information is available there. We also still plan to directly send you all of the project information, including proposed drawings and the formal architectural/visual study. How do you prefer we send that to you? Hardcopy? Or via email?

Sincerely,  
Jake Rieb

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**From:** Jake Rieb  
**Sent:** Monday, March 18, 2019 7:53 AM  
**To:** Bailey, Heather <HBailey@cityofmadison.com>  
**Subject:** RE: Consulting party request

Heather,

Thanks for sending back confirmation for consulting party status for both this and the 317 State St projects.

Currently we are getting an architectural/visual impact study completed by the University of Illinois Public Service Archaeology & Architecture Program (PSAAP). Once that study is completed we will be sending out all the project

information to you and the SHPO office. This will probably be happening in 3-4 weeks from now. The information will include our determination of potential effects to historic properties so you can review and provide feedback. Please let me know at any point if you have any questions.

I will be in touch!

Sincerely,

**Jake W. Rieb, RPA**  
Archaeologist  
624 Water Street  
Prairie du Sac, WI 53578  
<https://edgeconsult.com/>  
Office: 608-644-1449, Ext. 308  
Cell: 608-234-2896



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**From:** Bailey, Heather <[HBailey@cityofmadison.com](mailto:HBailey@cityofmadison.com)>  
**Sent:** Friday, March 15, 2019 1:09 PM  
**To:** Jake Rieb <[jrieb@edgeconsult.com](mailto:jrieb@edgeconsult.com)>  
**Subject:** Consulting party request

Please find attached our response to the inquiry about proposed cellular installation at 30 Ash St., Madison, WI. Have a good weekend!



**Heather L. Bailey, Ph.D.**  
Preservation Planner  
Neighborhood Planning, Preservation + Design Section  
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Department of Planning + Community + Economic Development  
Planning Division  
215 Martin Luther King, Jr. Blvd.; Suite 017  
PO Box 2985  
Madison WI 53701-2985  
Email: [hbailey@cityofmadison.com](mailto:hbailey@cityofmadison.com) Phone: 608.266.6552



FIGURE #3  
7.5 Minute USGS Quadrangle Map



**Project Number:** 21431  
**Project Info:** U.S. Cellular / Irish Pub (782440)  
**Project Location:** 317 State Street Madison, WI 53703

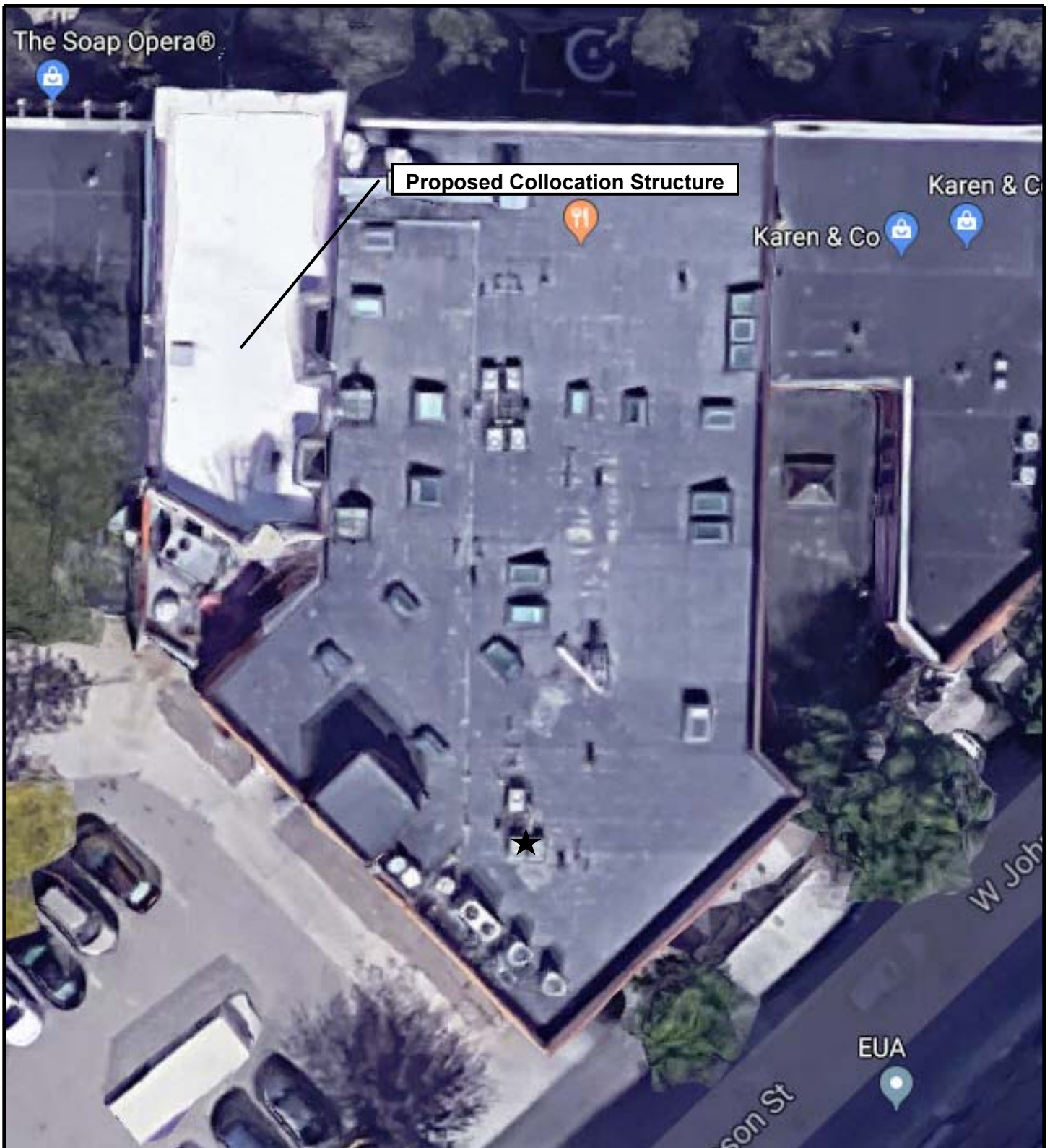


FIGURE #4  
Aerial Site Plan



**Project Number:** 21431  
**Project Info:** U.S. Cellular / Irish Pub (782440)  
**Project Location:** 317 State Street Madison, WI 53703



**Photo 1 - VIEW OF PRIMARY FAÇADE FROM STATE ST (NO ANTENNA VISIBILITY)**

FIGURE #5  
Site Photographs



**Project Number:** 21431  
**Project Info:** U.S. Cellular / Irish Pub (782440)  
**Project Location:** 317 State Street Madison, WI 53703  
**Photograph Date:** April 21, 2019



**Photo 2 - EXISTING EQUIPMENT CABINETS NEAR REAR OF BUILDING (NOT VISIBLE FROM STREET)**



**Photo 3 - EXISTING ANTENNAS ON WEST WALL (CAN BE VISIBLE FROM STREET IN SOME AREAS)**

FIGURE #5  
Site Photographs



**Project Number:** 21431  
**Project Info:** U.S. Cellular / Irish Pub (782440)  
**Project Location:** 317 State Street Madison, WI 53703  
**Photograph Date:** March 2019



**Photo 4 - VIEW OF WEST ALL AND ANTENNAS FROM STATE STREET (NO TREE LEAVES)**

FIGURE #5  
Site Photographs



**Edge**

Consulting Engineers, Inc.

**Project Number:** 21431  
**Project Info:** U.S. Cellular / Irish Pub (782440)  
**Project Location:** 317 State Street Madison, WI 53703  
**Photograph Date:** April 21, 2019





**Photo 5 - VIEW SE TOWARD PROPOSED PROJECT SITE FROM STATE ST (TREES BLOCK ANTENNA)**



**Photo 6 - ZOOM DETAIL OF ANTENNAS ON W WALL OF STRUCTURE**

FIGURE #5  
Site Photographs



**Project Number:** 21431  
**Project Info:** U.S. Cellular / Irish Pub (782440)  
**Project Location:** 317 State Street Madison, WI 53703  
**Photograph Date:** April 2019



**Photo 7 - EXISTING ANTENNAS ON CHIMNEY AT SOUTH SIDE OF ROOF (FROM ROOF)**



**Photo 8 - ALTERNATE VIEW OF ANTENNAS ON CHIMNEY FROM BEHIND BUILDING**

FIGURE #5  
Site Photographs



**Project Number:** 21431  
**Project Info:** U.S. Cellular / Irish Pub (782440)  
**Project Location:** 317 State Street Madison, WI 53703  
**Photograph Date:** March 2019



**Photo 9 - VIEW OF PRIMARY STRUCTURE FROM STATE ST (NO ANTENNA VISIBILITY)**

FIGURE #5  
Site Photographs



**Project Number:** 21431  
**Project Info:** U.S. Cellular / Irish Pub (782440)  
**Project Location:** 317 State Street Madison, WI 53703  
**Photograph Date:** April 21, 2019




Photo 10- VIEW TOWARD ANTENNAS ON EAST WALL FROM STATE ST & JOHNSON (MINIMAL VISIBILITY)



Photo 11 - ZOOMED DETAIL VIEW OF ANENNAS ON EAST WALL OF BUILDING FROM SAME LOCATION AS PREVIOUS

FIGURE #5  
Site Photographs

	<b>Project Number:</b> 21431
	<b>Project Info:</b> U.S. Cellular / Irish Pub (782440)
	<b>Project Location:</b> 317 State Street Madison, WI 53703
	<b>Photograph Date:</b> March 2019



**SITE LOCATION MAP**



**LOCATION SCAN**



**IRISH PUB (#782440)  
MADISON, WISCONSIN  
LTE CAPACITY DRAWINGS  
ROOFTOP/CHIMNEY**

**SHEET INDEX:**

NO.:	PAGE TITLE:
T-1	TITLE SHEET
C-1	SITE PLAN
C-2	ENLARGED SITE PLAN
A-1	TOWER ELEVATION
A-2	ANTENNA DETAILS
A-3	INSTALLATION DETAILS
A-4	INSTALLATION DETAILS
A-5	COAX ROUTING DETAILS
N-1	INSTALLATION NOTES

**STRUCTURAL NOTE**

LTE CAPACITY STRUCTURAL ANALYSIS: COMPLETED BY: EDGE CONSULTING ENGINEERS, INC.  
REPORT #: 10837  
DATED: 08/22/2014  
CONCLUSION: STRUCTURALLY ADEQUATE

**LTE CAPACITY SCOPE**

EXISTING ANTENNAS: (3) CDMA ANTENNAS TO REMAIN & (3) LTE ANTENNAS TO BE REPLACED.  
PROPOSED EQUIPMENT: (3) 8' LTE ANTENNAS, (3) RAYCAP SPDS, (3) REMOTE RADIO UNITS & (3) 3x6 HYBRID CABLES TO BE INSTALLED.  
EXIST. PLATFORM G.B.: CAN ACCOMMODATE (4) ADDITIONAL COAX GROUND KITS.  
EXIST. VERTICAL COAX LADDER: CONTRACTOR VERIFY CAPACITY OF EXISTING COAX SHROUD.  
EXIST. UPPER COAX LADDER G.B.: CAN ACCOMMODATE (3) ADDITIONAL COAX GROUND KITS.  
EXIST. SECTOR AGBS: CAN ACCOMMODATE (3) ADDITIONAL COAX GROUND KITS PER SECTOR.  
SPECIAL REQUIREMENTS: ADDITIONAL LENGTH NEEDED FOR GPS ANTENNA; SEE PAGE C-1

**PROJECT DIRECTORY:**

ENGINEERING COMPANY:  
EDGE CONSULTING ENGINEERS, INC.  
624 WATER STREET  
PRAIRIE DU SAC, WI 53578  
CONTACT: DAVID LYSHEK  
PHONE: 608.644.1449

CLIENT:  
U.S. CELLULAR  
ONE PIERCE PLACE  
SUITE 800  
ITASCA, IL 60143  
CONTACT: MICHAEL VANSELOW  
PHONE: 630-285-1971

SITE ACQUISITION:  
WIRELESS PLANNING, LLC  
2310 MILL STREET  
NEW LONDON, WI 54961  
CONTACT: JIM WEINMANN  
PHONE: 920.986.3286

PREVIOUS SURVEYOR:  
REIGEL LAND SURVEYING  
3308 HIGH ROAD  
MIDDLETON, WI 53562  
PHONE: 608.712.6757

**PROJECT INFO:**

SITE LOCATION:  
317 STATE STREET  
MADISON, WI 53703

SITE #: 782440

PROPERTY OWNER (2):  
IRISH PUB  
VINCE & ARLINE MACKESEY  
482 SOUTH SEGOE ROAD  
MADISON, WI 53711  
PHONE: 608.238.3553  
CONTACT FOR ACCESS: MARK MACKESEY  
PHONE: 608.256.6071

SOAP OPERA  
CHUCK BAUER  
318 STATE STREET  
MADISON, WI 53711  
PHONE: 608.251.4051

2C INFORMATION (NAD 1983/91)  
-CENTER OF IRISH PUB BUILDING- (PER PREVIOUS SURVEY)  
LAT: 43°-04'-28.67"  
LONG: 89°-23'-27.19"  
GROUND ELEVATION (NGVD 29): 874.6'



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN, CALL DIGGER'S HOTLINE

TOLL FREE  
1-800-242-8511  
FAX A LOCATE 1-800-338-3860

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



I HEREBY CERTIFY THAT THIS PLAN SET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION OTHER THAN THE EXCEPTIONS NOTED IN THE SHEET INDEX, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.

Signature:

Date: 3/16/2015

SHEET TITLE:

ISSUE DATE:  
FINAL LTE CAP DWGS - 09/24/2014

REVISIONS:  
RAYCAP CONDUIT - 03/14/2015

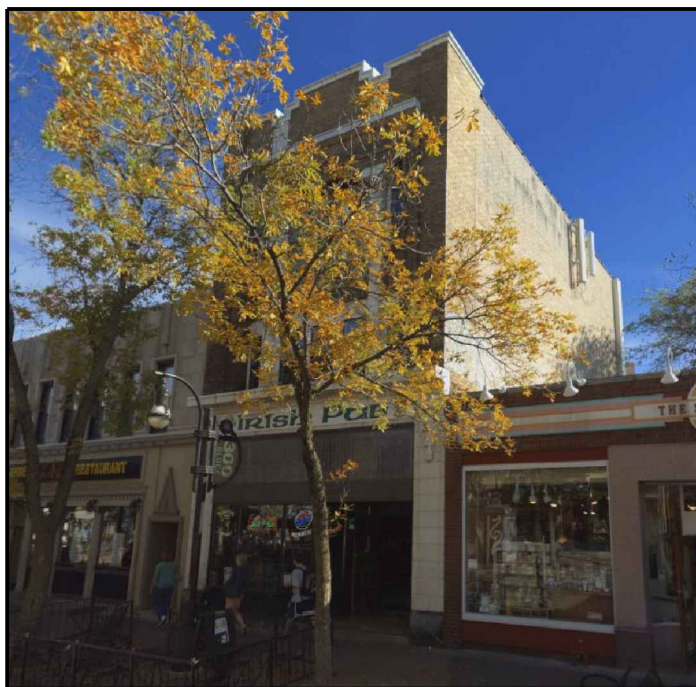
DRAWN BY:  
LMK SAH  
CHECKED BY:  
DCL  
PLOT DATE:  
3/16/2015  
PROJECT #:  
10837  
FILE NAME:  
T-1.dgn

SHEET NUMBER:

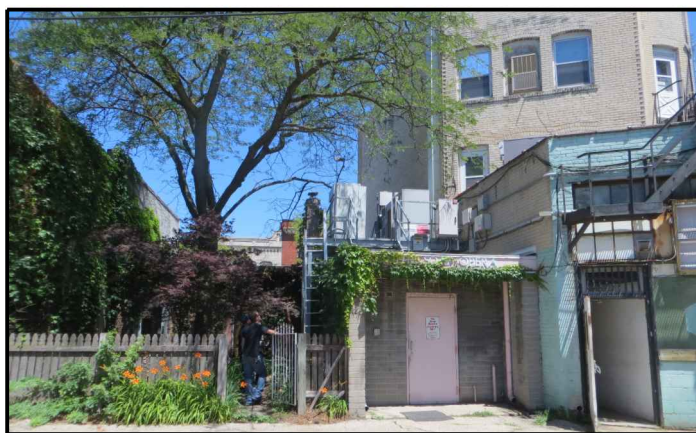
**T-1**



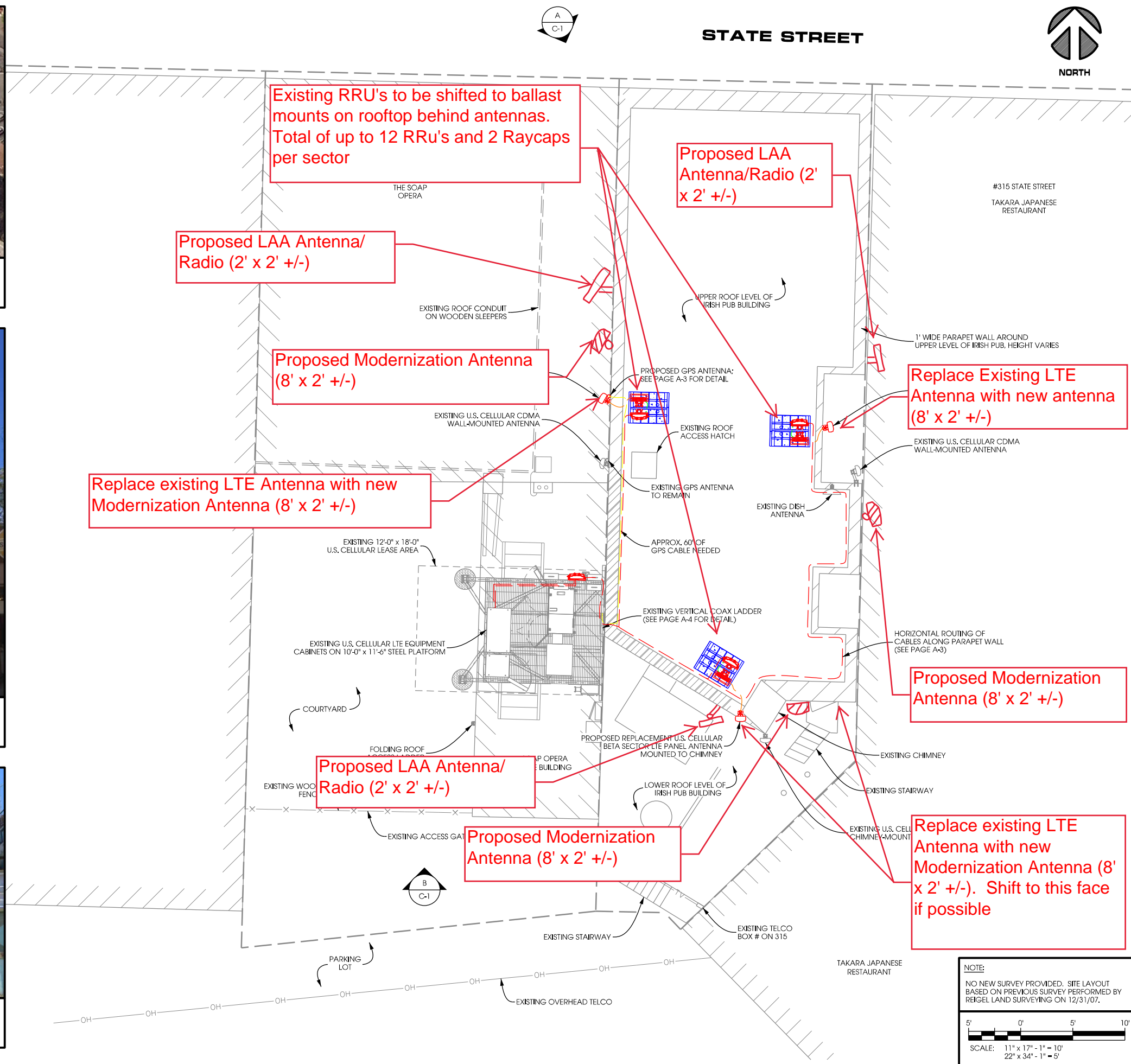
**BIRD'S EYE AERIAL OVERVIEW**



**SITE OVERVIEW (LOOKING SOUTHEAST)**



**SITE OVERVIEW (LOOKING NORTH)**



SHEET TITLE:	
ISSUE DATE:	
FINAL LTE CAP DWGS - 09/24/2014	
REVISIONS:	
RAYCAP CONDUIT - 03/16/2015	
DRAWN BY:	LMK, SAH
CHECKED BY:	DCL
PLOT DATE:	3/16/2015
PROJECT #:	10837
FILE NAME:	C-1.dgn
SHEET NUMBER:	<b>C-1</b>

**NOTE:**  
 NO NEW SURVEY PROVIDED. SITE LAYOUT BASED ON PREVIOUS SURVEY PERFORMED BY REIGEL LAND SURVEYING ON 12/31/07.

K:\10837\CAD\10837\_Plan\C-1.dgn

**NOTES:**

CONTRACTOR TO VERIFY HEIGHT AND DIRECTION OF ANTENNA WITH PROJECT MANAGER.

ALL ANTENNA AZIMUTHS TO BE FROM TRUE NORTH.

ANTENNA LAYOUT BASED ON TOWER INVENTORY - SEE PAGE T-1.

REFER TO STRUCTURAL ANALYSIS AS IDENTIFIED ON PAGE T-1. CONTRACTOR TO THOROUGHLY REVIEW THE TOWER STRUCTURAL ANALYSIS FOR INFORMATION PERTAINING TO TOWER UPGRADES, MOUNTING TYPES, ANTENNA HEIGHTS, AND COAX ROUTING. ANY DISCREPANCIES BETWEEN THE DRAWINGS, STRUCTURAL ANALYSIS, AND TOWER PLANS SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO BIDDING AND INSTALLATION.

**3 x 6 HYBRID CABLE LENGTH**

SECTOR OF PROPOSED ROOFTOP RAYCAP SPD	ALPHA		BETA		GAMMA	
**LENGTH FROM ENODEB TO RAYCAP SPD	30 FT	10 m	30 FT	10 m	30 FT	10 m
LENGTH FROM EQUIPMENT PLATFORM TO TOP OF VERTICAL COAX LADDER	40 FT	20 m	40 FT	20 m	40 FT	20 m
	10 m	20 FT	10 m	20 FT	10 m	20 FT
	40 m	90 FT	40 m	90 FT	40 m	90 FT

Replace existing LTE Antenna with new Modernization antenna (8' x 2' +/-). Place new antennas below chimney level on building face.

**FIBER JUMPER CABLE INFO**

	BREAKOUT TO RRU
ALPHA SECTOR	3 FT 0.91 m
BETA SECTOR	3 FT 0.91 m
GAMMA SECTOR	3 FT 0.91 m

\* MAXIMUM JUMPER LENGTH OF 16' (5m)

**COAX JUMPER CABLE INFO**

	RRU TO PROPOSED ANTENNA
ALPHA SECTOR	
BETA SECTOR	
GAMMA SECTOR	

Additional Modernization Antenna (1 per sector)



**TOWER ELEVATION - LOOKING NORTH -**

**ANTENNA LEGEND:**

- PROPOSED ANTENNA TO BE INSTALLED
- PROPOSED RRU TO BE INSTALLED
- PROPOSED RAYCAP SPD TO BE INSTALLED
- PROPOSED RAYCAP SPD TO BE INSTALLED
- EXISTING CDMA ANTENNA TO REMAIN

**NOTE:**  
ALL ANTENNA AZIMUTHS TO BE FROM TRUE NORTH

Place 2 new LTE Antennas here for this sector. Try to add LAA over here as well. If necessary can go on other face also.

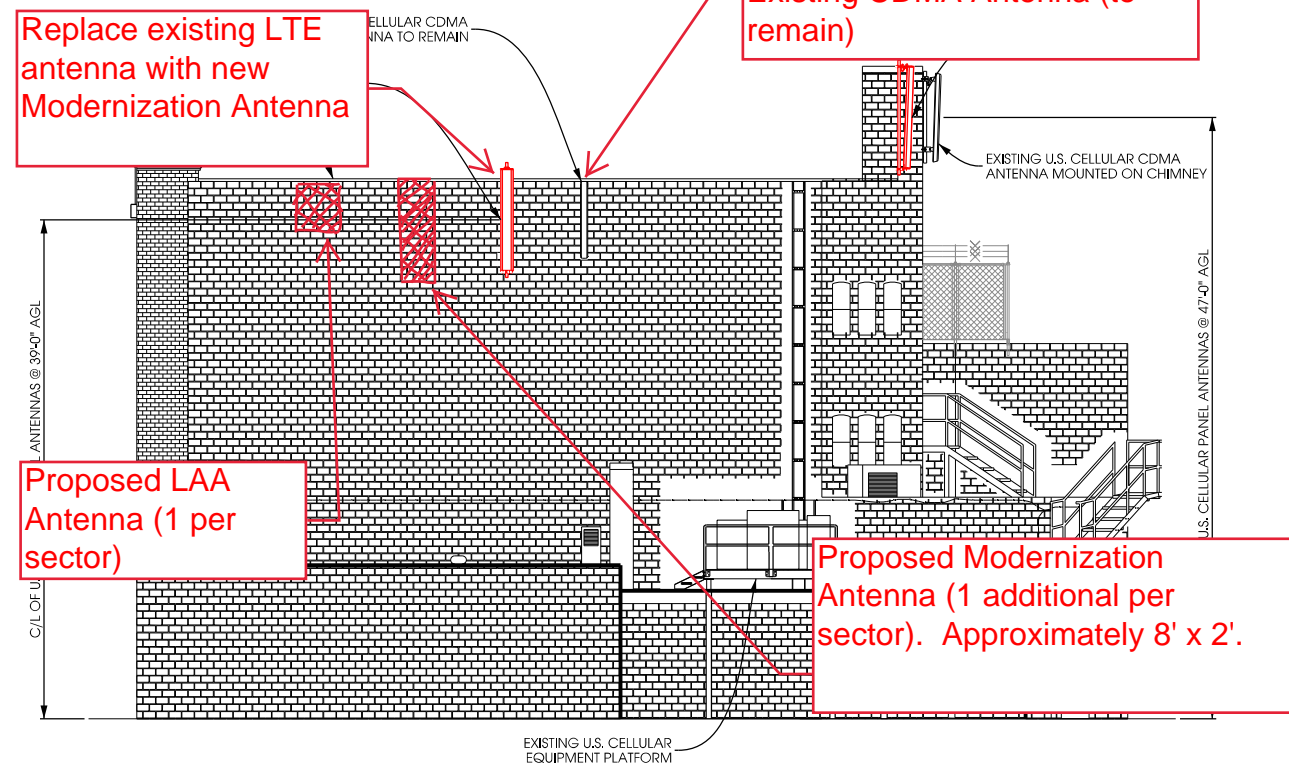
Proposed LAA Antenna (1 per sector)

Replace existing LTE antenna with new Modernization Antenna

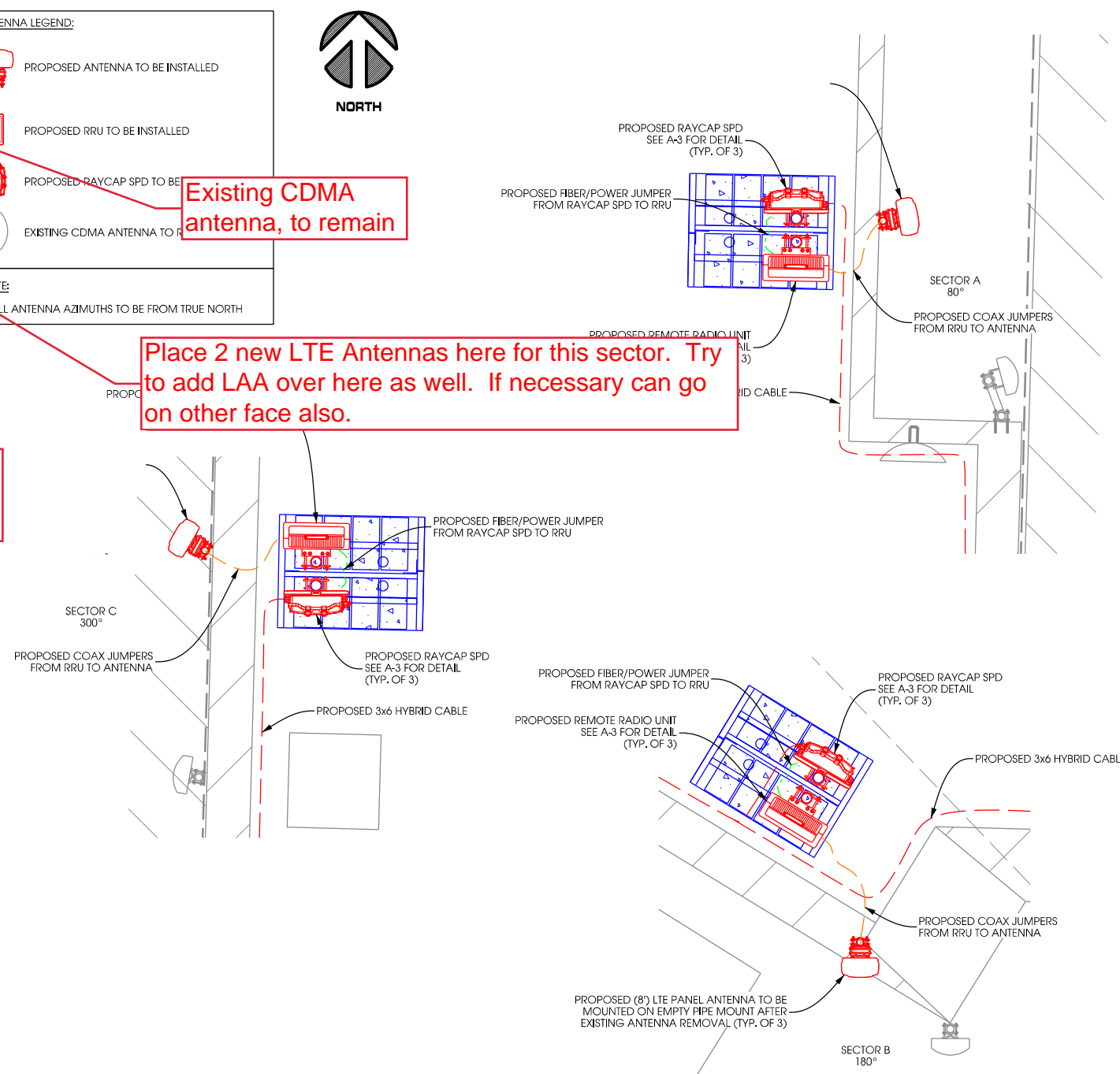
Existing CDMA Antenna (to remain)

Proposed LAA Antenna (1 per sector)

Proposed Modernization Antenna (1 additional per sector). Approximately 8' x 2'.



**A TOWER PROFILE (WEST ELEVATION)**  
SCALE: 11" x 17" - 1" = 15'-0"  
22" x 34" - 1" = 7'-6"



**Proposed Loading**

Sector	Antenna Model	Ant Qty	Tech	Band	Rad Ctr.	Coax Size	Coax Qty	Coax Length	Azm	Mech Tilt	"RET" Tilt	Top Bias-T	Btm Bias-T	Tower Mounted Equipment
Alpha	800 10766V0:	1	LTE	B5/B12	39	1 5/8"	2	70	80	0	10	1	0	RIU
Alpha			LTE	B2	39	H 3x6	1	70	80	0	2	0	0	RRU11
Alpha	BXA-80063-6CF-EDIN-6	1	CDMA	B5	39	7/8"	2	59	80	5	N/A	0	0	None
Beta	800 10766V0:	1	LTE	B5/B12	47	1 5/8"	2	70	180	0	10	1	0	RIU
Beta			LTE	B2	47	H 3x6	1	70	180	0	2	0	0	RRU11
Beta	BXA-80063-6CF-EDIN-6	1	CDMA	B5	47	7/8"	2	67	180	7	N/A	0	0	None
Gamma	800 10766V0:	1	LTE	B5/B12	39	1 5/8"	2	70	300	0	7	1	0	RIU
Gamma			LTE	B2	39	H 3x6	1	70	300	0	2	0	0	RRU11
Gamma	BXA-80063-6CF-EDIN-6	1	CDMA	B5	39	7/8"	2	59	300	0	N/A	0	0	None

OPERATING BAND	FREQUENCY BAND	COMMON NAME
BAND 2	1900	PCS
BAND 4	1700	AWS
BAND 12	700	SMH

**B ANTENNA PLATFORM ASSIGNMENT**  
SCALE: NTS  
SEE N-1 FOR COLOR CODING