

CITY OF BATAVIA

100 N. Island Ave., Batavia, IL 60510
(630) 454-2000 www.cityofbatavia.net

HISTORIC PRESERVATION COMMISSION

October 10, 2016

5:30 PM

City Hall – City Council Chambers – 1st Floor

1. Call To Order
2. Roll Call
3. Items Removed/Added/Changed
4. Approval Of Minutes
September 26, 2016

Documents:

[HPC 9-26-16_DRAFT.PDF](#)

5. Matters From The Public (For Items Not On The Agenda)
6. COA Review: 901 North Batavia Avenue
Antenna Revisions (LCC Telecom, applicant)

Documents:

[TMOBILE REVISIONS-CAMPANA COA PACKET.PDF](#)

7. Certified Local Government Continued Discussion
8. Election Of Officers
9. Updates
 1. 7 East Wilson Street—Historic Inspection
 2. Anderson Block Building—Masonry Maintenance
 3. Significant Historic Building Inspection Program
 4. 10/12 North River Street—Historic Inspection
 5. 227 West Wilson Street—Historic Inspection
 6. 109 South Batavia Avenue—Historic Inspection
 7. 8 North River Street—Historic Inspection
 8. 16 East Wilson Street—Historic Inspection

10. Other Business

11. Adjournment

Historic Preservation Commission

Phil Bus, Chair

Kurt Hagemann, Vice Chair

Doris Sherer

Doug Sullivan

Belinda Roller

MINUTES
September 26, 2016
Historic Preservation Commission
City of Batavia

Please **NOTE:** These minutes are not a word-for-word transcription of the statements made at the meeting, nor intended to be a comprehensive review of all discussions. They are intended to make an official record of the actions taken by the Committee/City Council, and to include some description of discussion points as understood by the minute-taker. They may not reference some of the individual attendee's comments, nor the complete comments if referenced.

1. Meeting Called to Order

Chair Bus called the meeting to order at 5:43pm.

2. Roll Call

Members Present: Chair Bus; Commissioners Sherer, Roller and Sullivan (entered at 5:54pm)

Members Absent: Vice-Chair Hagemann

Also Present: Jeff Albertson, Building Commissioner; and Jennifer Austin-Smith, Recording Secretary

3. Items to be Removed, Added or Changed

There were no items to be removed, added or changed. The Commission opened the meeting without a quorum and discussed items that did not require motions. Once Sullivan entered the meeting at 5:54pm the Commission began discussion on agenda items that required motions and a quorum.

4. Approval of Minutes: September 12, 2016

Motion: To approve the minutes from September 12, 2016

Maker: Sullivan

Second: Roller

Voice Vote: 4 Ayes, 0 Nays, 1 Absent
Motion carried.

5. Matters From the Public (for items not on the agenda)

Chair Bus asked if there were matters from the public for items not on the agenda. There were none.

6. COA Review: 227/229 West Wilson Street

Façade Material Changes (Daisy Slaboszewski, applicant)

Daisy Slaboszewski, 109 Ridge Road, Shorewood discussed the COA review for 227/229, the former Fantastico's space. She explained that they would be taking over the space and create a Chinese restaurant. Brian Isan addressed the Commission. He would like to replace the façade with fiber cement four inch siding. He showed the Commission a sample of the siding in the grey color they prefer. Isan continued that they plan on repairing the copper overhang, remove the

soffit material, reinforce it and bring it to the original straight position. He noted that he would be working with Albertson on that particular project. Bus asked what the surface is under the z brick facade. Isan estimated that it would be plywood. Bus stated that it is most likely that there is nothing underneath the z brick that is significant. Roller agreed that the z brick was most likely used to make the building look more substantial.

Albertson stated that this is a contributing building. Sullivan asked about the sign and if it were to come to the Commission for approval. Albertson stated that it is just a face change and therefore would not come to the Commission for review.

Motion: To approve the COA as presented
Maker: Sherer
Second: Roller
Roll Call Vote: **Aye:** Sherer, Sullivan, Roller, Bus
Nay: None
4-0 Vote, 1 Absent, Motion carried.

**7. COA Revision Review: 108 North Batavia Avenue
Dunkin Donuts/Shell Retaining Wall Revision (Harry Mehta, applicant)**

Harry Mehta, 108 North Batavia Avenue, stated that the proposed revision is to install a segmental block wall. The wall is LedgeStone texture by Redi-Rock in the grey color (similar to a concrete color). Roller asked if he had a sample and Mehta responded that he did not have any samples. Mehta explained that the timeframe needed to complete the project limits the color choice to grey. Other color options would be a special order. Albertson stated that this is the only revision to what was previously proposed.

Motion: To approve the COA revision as presented
Maker: Roller
Second: Sullivan
Roll Call Vote: **Aye:** Sherer, Roller, Bus, Sullivan
Nay: None
4-0 Vote, 1 Absent, Motion carried.

Bus asked the applicant when he plans on starting construction. Mehta answered that the inside construction began today and they plan on starting the outside construction once all approvals are received. They plan on being completed with construction by the middle of November.

8. Certified Local Government Discussion

Bus thanked staff for making the arrangement for the Illinois Historic Preservation Agency (IHPA) to present to the Commission. Bus stated that he found the presentation very helpful. Albertson asked what the Commission would like to do with the process. Sherer asked what the next step would be. Albertson stated that the next step would be completing the application process. Sherer asked if staff has received the PowerPoint presentation from the IHPA. Albertson stated he would follow up with the IHPA to get the PowerPoint for the Commission's records.

Bus stated he would like to consider a grant application in the near future for identifying new historic landmarks to be added to the preservation plan.

Roller commented that Elgin has a volunteer program to register historic homes. Roller would research this further and report back to the Commission. Bus stated that the Newman House is a great example of a historic home in Batavia. Roller noted that there are several homes that are historic but do not want to participate in the house walk so they are not as well known. Sherer commented that after hearing the presentation she feels that it is beneficial to have historic homes marked as historic structures.

*Sullivan entered 5:54pm

Sullivan stated that he feels confident that the newspaper article that gave him hesitation to become a Certified Local Government was incorrect. Bus asked if Sullivan felt comfortable pursuing the Certified Local Government. Sullivan stated that he was.

Motion: Forward to City staff that the Historic Preservation Commission wants to move ahead to become certified

Maker: Sherer

Second: Roller

Discussion was held on the motion. Sullivan asked if which entity becomes certified, was it the City or the Commission that becomes certified. Albertson stated that, to his knowledge, it was the Historic Preservation Commission (HPC) that became certified. Bus stated that he thought it was the City that gets certified and the HPC is a subset to the City. Albertson stated that he would check. Sullivan read an email from Anthony Rubano, IHPA, to the Commission on how the article was incorrect.

Voice Vote: 4 Ayes, 0 Nays, 1 Absent
Motion carried.

9. Updates:

1. 7 East Wilson Street – Historic Inspection
2. Anderson Block Building – Masonry Maintenance
3. Significant Historic Building Inspection Program
4. 10/12 North River Street – Historic Inspection
5. 227 West Wilson Street – Historic Inspection
6. 109 South Batavia Avenue – Historic Inspection
7. 8 North River Street – Historic Inspection
8. 16 East Wilson Street – Historic Inspection

There were no updates at this time.

10. Other Business

Bus stated that it is required to elect new HPC officers in October. Bus asked Sherer and Roller to serve as the Nominating Committee and report back at the next meeting on nominations for

chair and vice-chair. Bus noted that the he has been chair for two years now and cannot succeed himself as chair. Albertson stated that he would add that to the next agenda.

11. Adjournment

There being no other business to discuss, Chair Bus asked for a motion to adjourn the meeting at 6:20pm; Made by Sullivan; Seconded by Roller. Motion carried.

Minutes respectfully submitted by Jennifer Austin-Smith



City of Batavia
 Community Development Department
 100 North Island Avenue
 Batavia IL 60510
 Phone (630) 454-2700
 Fax (630) 454-2775

Application for Certificate of Appropriateness

Property Address 901 N. Batavia Ave

Owner's Name Frank mares

Property Identification Number 12-15-176-008
 Existing/Proposed Zoning Ordinances Yes No
 Zoning _____

Phone Number 630-879-3107

Mobile Number N/A

E-Mail Fmares@Prairiestructures.com

Submittal Date 9 / 15 / 16

Project Description :

Applicant's Name Sosh Pathammavong

Applicant Address 10700 W. Higgins Rd, Ste 210 Rosemont, IL 60018
 Phone Number 630-352-0793

Mobile Number _____

E-Mail Spath@LCCtelecom.com

Applicant Signature [Signature] on

behalf of AT&T

Owner Signature _____

TYPE OF WORK
 (Check All That Apply)

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> Exterior Alteration/Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Demolition |
| | <input type="checkbox"/> Primary Structure | <input type="checkbox"/> Whole Primary Structure |
| | <input type="checkbox"/> Addition | <input type="checkbox"/> Part Primary Structure |
| | <input type="checkbox"/> Garage/Outbuilding | <input type="checkbox"/> Garage/outbuilding |
| | <input type="checkbox"/> Other _____ | <input type="checkbox"/> Relocation of Building |

Additional Information to be Submitted with Application – Digital Format If Available

- | | |
|---|--|
| <input type="checkbox"/> Exterior Alteration/Repair | <input type="checkbox"/> Porch – Maintenance and Minor Repair |
| <input type="checkbox"/> Architectural Feature (Decorative Ornamentation) | <input type="checkbox"/> Porch – Major Repair and Reconstruction |
| <input type="checkbox"/> Awning or Canopy | <input type="checkbox"/> Retaining Walls |
| <input type="checkbox"/> Deck | <input type="checkbox"/> Roof (Change in Shape, Features, Materials) |
| <input type="checkbox"/> Door | <input type="checkbox"/> Satellite Dish |
| <input type="checkbox"/> Fence | <input type="checkbox"/> Security Doors or Windows |
| <input type="checkbox"/> Gutters | <input type="checkbox"/> Sidewalks |
| <input type="checkbox"/> Light Fixture | <input type="checkbox"/> Shutters |
| <input type="checkbox"/> Mechanical System Units | <input type="checkbox"/> Siding |
| <input type="checkbox"/> Masonry Cleaning, Repointing, Painting | <input type="checkbox"/> Signs |
| <input type="checkbox"/> Material Change (wood, brick, etc) | <input type="checkbox"/> Solar Collectors |
| <input type="checkbox"/> Painting (paint removal etc) | <input type="checkbox"/> Storm Doors or Windows |
| <input type="checkbox"/> Paving (Parking Lot, Driveways, Landscaping) | <input type="checkbox"/> Windows, Skylights |
| <input type="checkbox"/> Photographs of building(s) | <input checked="" type="checkbox"/> Others <u>ANYUMAS</u> |

Attach a detailed description of all work to be done for each item. Include the following materials where appropriate and check appropriate box if included

- A. Drawings, photographs, specifications, manufacturer's illustrations or other description of proposed changes to the building's exterior, to-scale drawings with dimensions will be required for major changes in design (e.g., roofs, facades, porches, and other prominent architectural features)
- B. If application is for any feature not on the primary structure, include a site plan. A site plan will not be required if there is no change to the existing structure or any proposed new structure.
- C. If changes to building materials are proposed, include samples.

New Construction/Additions

Include the following materials where appropriate and check appropriate box if included.

- For primary structure, outbuilding or addition:
 - 1. Fully dimensioned site plan
 - 2. Elevation drawings of each façade with dimensions and specifications
 - 3. Drawings, photographs, samples and manufacturer's illustrations
- Drawings or other descriptions of site improvements, e.g., fences sidewalks, lighting, pavements, decks.

Structure Demolition

- 1. Photographic evidence supporting the reason for demolition
- 2. Describe the proposed reuse of the site, including drawings of any proposed new structure
- 3. If economic hardship is claimed, include evidence that hardship exists (Criteria set forth in Section 7-2 of Title 12)

Structure Relocation

- 1. Explain what will be moved, where and why.
- 2. If a structure will be moved into the district from outside, include photographs.
- 3. Include a site plan showing proposed location of the structure on the new parcel. Describe any site features that may be altered or disturbed (e.g., foundations, walls)

THIS FORM IS NOT A BUILDING PERMIT APPLICATION

FOR OFFICE USE ONLY BELOW

Property is: Significant Contributing Non-Contributing

Signature of Historic Preservation Commission Chair

Date of Commission Review

City Council Action: Date _____ Vote Record _____ Not Applicable _____

Conditions: YES*/ NO

*See Attachment

The Batavia Historic Preservation Commission, or its authorized agent, has reviewed the proposed work and has determined that it is in accordance with the applicable criteria set forth in Section 6-2 of Title 12 of the Code of the City of Batavia. Accordingly, this Certificate of Appropriateness is issued.

Any change in the proposed work after issuance of this Certificate of Appropriateness shall require inspection by Commission staff to determine whether the work is still in substantial compliance with the Certificate of Appropriateness.

This certificate is not a permit, does not authorize work to begin, does not ensure building code compliance, and does not imply that any zoning review has taken place.

PROJECT INFORMATION

APPLICANT: AT&T
 930 NATIONAL PARKWAY
 SCHAUMBURG, IL 60173

FA CODE: 10131147

PROPOSED USE: TELECOMMUNICATIONS FACILITY

STRUCTURE TYPE: ROOF TOP

SITE ADDRESS: 901 NORTH BATAVIA AVENUE
 BATAVIA, IL 60510

PROPERTY OWNER: CAMPANA REDEVELOPMENT, LLC

CONTACT PERSON: FRANK MARES, PRESIDENT PRAIRIE STRUCTURES
 (630) 879-3107

PARCEL NUMBER: 12-15-176-008

JURISDICTION: KANE COUNTY

LATITUDE: 41° 51' 55.22" N

LONGITUDE: 88° 18' 56.11" W

LAT/ LONG TYPE: NAD 83

GROUND ELEVATION: 716.00 AMSL

POWER COMPANY: COMED

PHONE: (800) 334-7661

TELEPHONE COMPANY: AT&T

PHONE: (800) 257-0902



SITE NUMBER: IL0859
SITE NAME: NORTH BATAVIA

PROJECT:
 LTE 3C (WCS)

PROJECT DESCRIPTION:
 REPLACE (3) EXISTING ANTENNAS POS.1 & INSTALL (3) NEW WCS RRUS32.
 INSTALL NEW FIF RACK W/ LTE RBS 6601 FOR WCS EQUIPMENT.
 ADD (1) FIBER & (2) DC CABLES

AT&T APPROVAL

SITE ACQUISITION MANAGER: _____ Date _____
 NSORO CONSTRUCTION MANAGER: _____ Date _____
 NSORO SA PROJECT MANAGER: _____ Date _____
 NSORO SA SPECIALIST: _____ Date _____
 NSORO COMPLIANCE MANAGER: _____ Date _____
 AT&T RF PROJECT MANAGER: _____ Date _____
 AT&T PROJECT MANAGER: _____ Date _____

AT&T MOBILITY APPROVAL

Real Estate _____ Date _____
 RF _____ Date _____
 Operation _____ Date _____

LTE PROJECT

700 AWS 1900 850 WCS

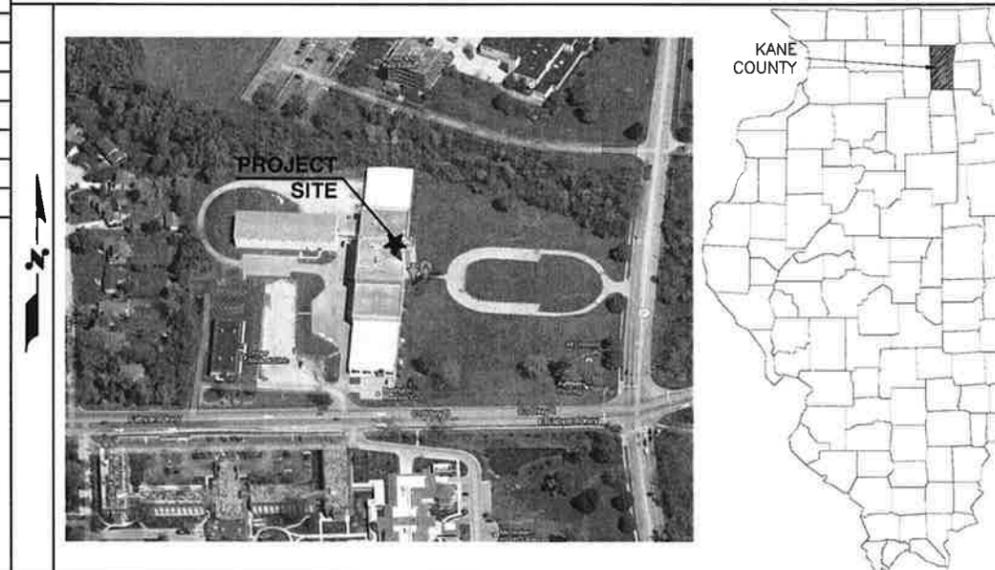
DRAWING INDEX

REV

IL0859-01	TITLE SHEET	A
IL0859-02	ROOF PLAN	A
IL0859-03	ENLARGED ROOF PLAN	A
IL0859-04	BUILDING ELEVATION	A
IL0859-05	ANTENNAS LAYOUT	A
IL0859-06	EQUIPMENT LAYOUT	A
IL0859-06-A	NEW FIF RACK SPECIFICATION	A
IL0859-07	CONSTRUCTION DETAILS	A
IL0859-08	ANTENNA MATRIX	A
IL0859-09	COAX COLOR CODING	A
IL0859-10	FIBER-OPTIC JUMPER COLOR CODING	A
IL0859-11	GENERAL NOTES	A

VICINITY MAP

DIRECTIONS: DEPART CHICAGO O'HARE INTERNATIONAL AIRPORT. TURN RIGHT (NORTH) ONTO RENTAL CAR ACCESS. TURN LEFT (SOUTH) ONTO BESSIE COLEMAN DR. TAKE RAMP ONTO I-190/ CHICAGO. AT EXIT 1D, TURN RIGHT ONTO I-294/ INDIANA. MERGE ONTO I-294. TURN RIGHT ONTO RAMP I-88/ E-W TOLLWAY/ AURORA. MERGE ONTO I-88. TURN RIGHT ONTO RAMP NORTH FARNSWORTH AVE. BEAR RIGHT ONTO CR-77 [N FARNSWORTH AVE]. KEEP STRAIGHT ONTO CR-77 [S KIRK RD]. KEEP STRAIGHT ONTO CR-77. TURN LEFT (WEST) ONTO CR-B [E FABYAN PKY]. KEEP STRAIGHT ONTO CR-B. TURN RIGHT (NORTH) ONTO LOCAL ROAD(S). ARRIVE AT SITE



APPLICABLE BUILDING CODES AND STANDARDS

CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
 [INTERNATIONAL BUILDING CODE (IBC), 2006 AS ADOPTED BY LOCAL BUILDING AUTHORITY]

ELECTRICAL CODE:
 [NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70-2002;
 2005 NATIONAL ELECTRICAL CODE, AS
 ADOPTED BY LOCAL BUILDING AUTHORITY]

LIGHTNING PROTECTION CODE:
 [NFPA 780 - 2000, LIGHTNING PROTECTION CODE]

CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS.
 AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES;
 TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
 IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT
 IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS
 TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

THESE DRAWINGS ARE PREPARED BASED ON INFORMATION PROVIDED BY MASTEC NETWORK SOLUTION. GENERAL CONTRACTOR TO VERIFY AND INCORPORATE MOST RECENT VERSION OF RFDS PRIOR TO CONSTRUCTION.

HANDICAPPED REQUIREMENTS

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS REQUIREMENTS NOT REQUIRED

PLUMBING REQUIREMENTS

FACILITY HAS NO PLUMBING

FIRE PROTECTION NOTE

BUILDING HAS EXISTING SPRINKLER SYSTEM

UTILITIES



SITE QUALIFICATION PARTICIPANTS

	NAME	COMPANY	NUMBER
A/E	SATISH PATEL	APEX ENGINEERS, INC.	(630) 627-1800
SA			
RF	SAEED MIR	AT&T MOBILITY	(847) 762-2259
PM	KEN STOCKERO	NSORO	(847) 463-5921
CM		NSORO	

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF PROFESSIONAL KNOWLEDGE THEY COMPLY WITH THE REQUIREMENT OF ALL APPLICABLE CODES AND ORDINANCES.

Satish Patel
 DATE: 08/12/16

SATISHKUMAR C. PATEL, S.E.
 ILLINOIS S.E. LICENSE # 081-004996
 EXPIRES 11-30-2016



MasTec
 Network Solutions
 1351 E. Irving Park Rd
 Itasca, IL 60143

Apex Engineers, Inc.
 Structural & Civil Engineers
 500 East 22nd Street, Suite B
 Lombard, Illinois 60148
 Ph. (630) 627-1800
 Fax. (630) 627-1165
 APEX JOB No. GM10-286

NORTH BATAVIA
SITE NO. IL0859
SITERRA NO. 101093-A
 901 NORTH BATAVIA AVENUE
 BATAVIA, IL 60510

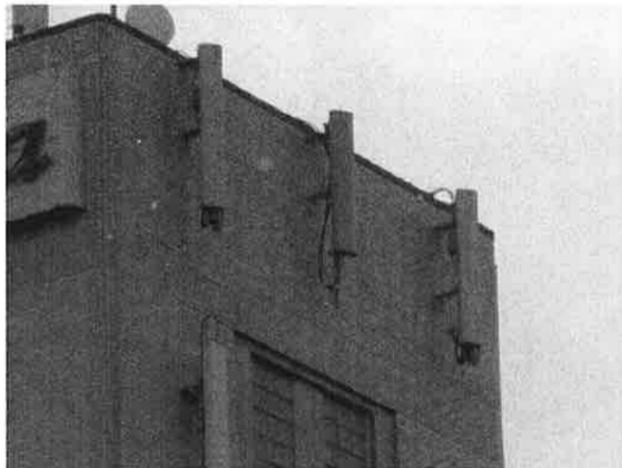


NO.	DATE	ISSUED FOR REVIEW	BY	CHK	APP'D
A	08/12/16		YA	EW	SP
SCALE: AS SHOWN		DESIGNED BY: XX	DRAWN BY: XX		

AT&T MOBILITY

TITLE

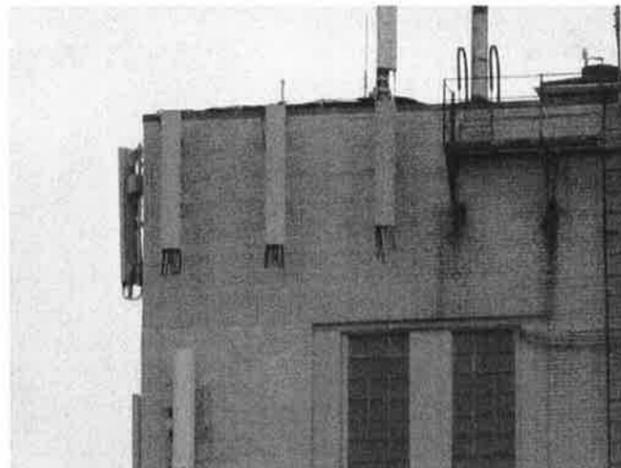
DRAWING NUMBER: IL0859-01
 REV: A



SECTOR ALPHA



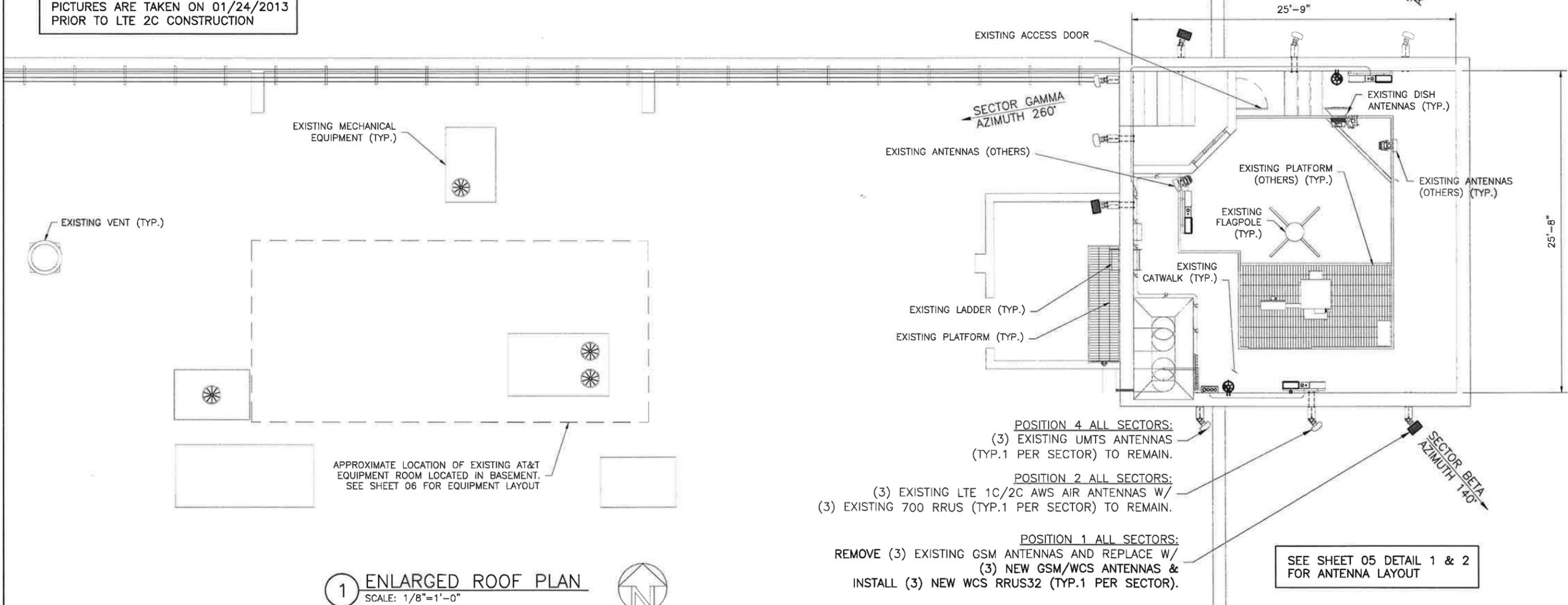
SECTOR BETA



SECTOR GAMMA

ANTENNA LEGEND:	
	PROPOSED ANTENNA
	RELOCATED ANTENNA
	EXISTING ANTENNA
	REMOVED ANTENNA

PICTURES ARE TAKEN ON 01/24/2013
PRIOR TO LTE 2C CONSTRUCTION



- POSITION 4 ALL SECTORS:
(3) EXISTING UMTS ANTENNAS (TYP.1 PER SECTOR) TO REMAIN.
- POSITION 2 ALL SECTORS:
(3) EXISTING LTE 1C/2C AWS AIR ANTENNAS W/
(3) EXISTING 700 RRUS (TYP.1 PER SECTOR) TO REMAIN.
- POSITION 1 ALL SECTORS:
REMOVE (3) EXISTING GSM ANTENNAS AND REPLACE W/
(3) NEW GSM/WCS ANTENNAS &
INSTALL (3) NEW WCS RRUS32 (TYP.1 PER SECTOR).

SEE SHEET 05 DETAIL 1 & 2
FOR ANTENNA LAYOUT

1 ENLARGED ROOF PLAN
SCALE: 1/8"=1'-0"

 1351 E. Irving Park Rd Itasca, IL 60143	 Apex Engineers, Inc. Structural & Civil Engineers 500 East 22nd Street, Suite B Lombard, Illinois 60148 Ph. (630) 627-1800 Fax. (630) 627-1165 APEX JOB No. GM10-286	NORTH BATAVIA SITE NO. IL0859 SITERRA NO. 101093-A 901 NORTH BATAVIA AVENUE BATAVIA, IL 60510		A 08/12/16 ISSUED FOR REVIEW YA EW SP	AT&T MOBILITY ENLARGED ROOF PLAN
				NO. DATE REVISIONS BY CHK APP'D	
SCALE: AS SHOWN DESIGNED BY: XX DRAWN BY: XX				11 x 17" B SIZE	

NOTE:
 1. REFER TO RF DESIGN SHEET/ ANTENNA CONFIGURATION DRAWING/ RET CONTROL DIAGRAM & INSTALL AS REQUIRED UPPER TMA'S, LOWER DIPLEXERS, BIAS-T, PDUs, RET CONTROLLER & HR CABLE, MCU, BOTTOM JUMPERS, GSM 850 RADIOS, LMU CABLES, 500HM LOADS OR TERMINATION CAPS
 2. ALL ANTENNA AZIMUTH TO BE FROM TRUE NORTH

EXISTING/ PROPOSED AT&T ANTENNAS.
 SEE SHEET 05 FOR ANTENNA LAYOUT.

C.L. OF AT&T ANTENNAS
 ELEV.: 99'-0" (6' ANTENNA)
 ELEV.: 98'-0" (8' ANTENNA)

(12) EXISTING 1-5/8" COAX CABLES
 (TYP. OF 4 PER SECTOR) &
 DC POWER/FIBER CABLES WITH DEMARCATION BOX.
 INSTALL (1) NEW FIBER &
 (2) NEW DC/POWER SHIELDED CABLES.
 TERMINATE ALL CABLES IN SQUID

NOTE:
 PROPOSED FIBER/DC CABLES
 TO FOLLOW EXISTING RUN.
 CONTRACTOR TO VERIFY IN FIELD CABLES
 LENGTH PRIOR TO INSTALLATION.

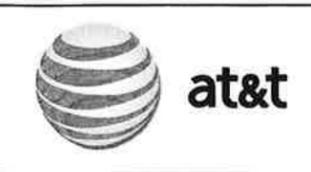
APPROXIMATE LOCATION OF AT&T
 EQUIPMENT ROOM IN THE BASEMENT.
 SEE SHEET 06 FOR EQUIPMENT LAYOUT

1 ELEVATION
 SCALE: 3/64"=1'-0"

MasTec
 Network Solutions
 1351 E. Irving Park Rd
 Itasca, IL 60143

Apex Engineers, Inc.
 Structural & Civil Engineers
 500 East 22nd Street, Suite B
 Lombard, Illinois 60148
 Ph. (630) 627-1800
 Fax. (630) 627-1165
 APEX JOB No. GM10-286

NORTH BATAVIA
SITE NO. IL0859
SITERRA NO. 101093-A
 901 NORTH BATAVIA AVENUE
 BATAVIA, IL 60510



NO.	DATE	REVISIONS	BY	CHK	APP'D
A	08/12/16	ISSUED FOR REVIEW	YA	EW	SP
SCALE: AS SHOWN		DESIGNED BY: XX	DRAWN BY: XX		

AT&T MOBILITY	
ELEVATION	
DRAWING NUMBER	REV
IL0859-04	A

6

5

4



3

2

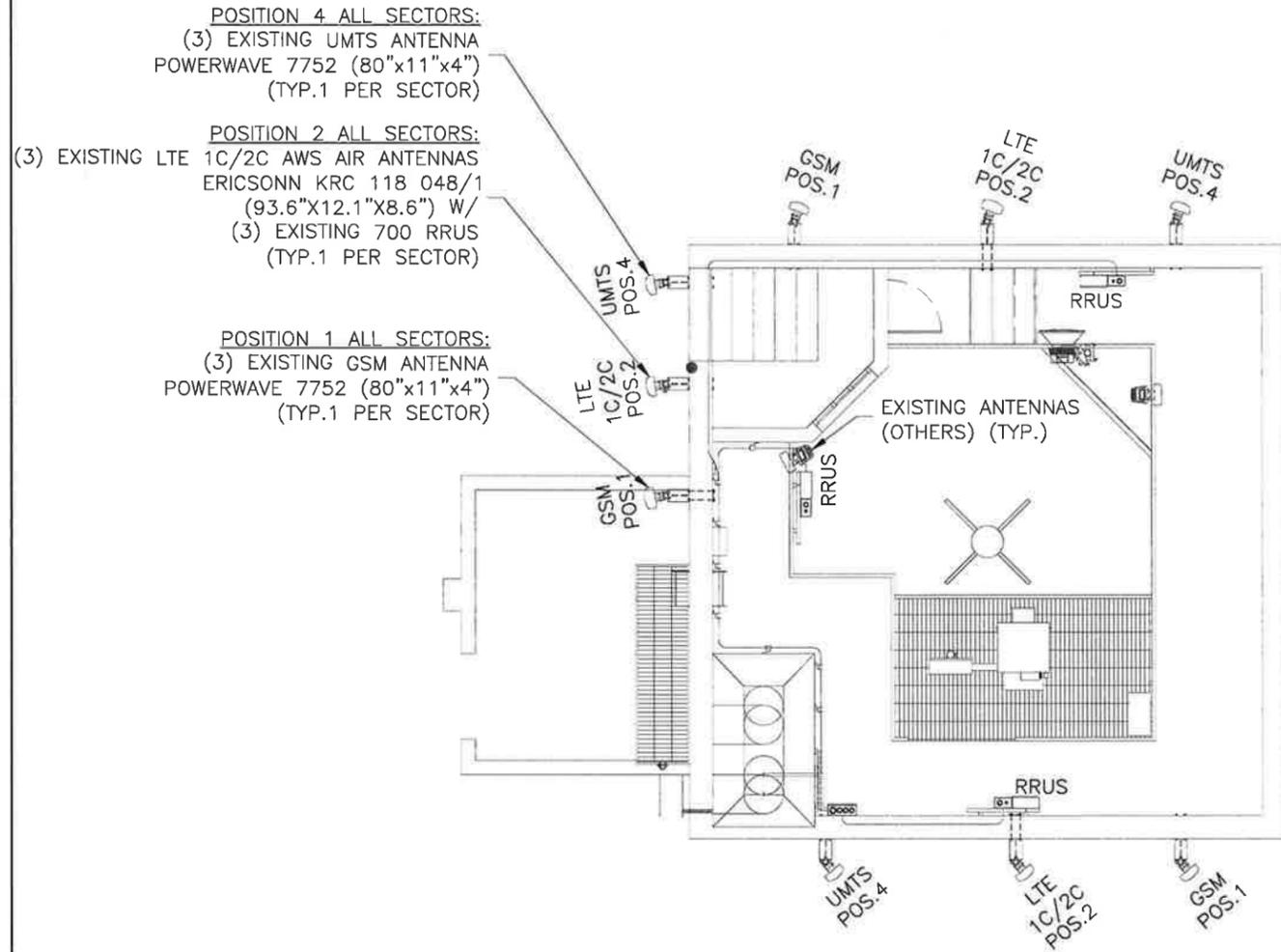
11 x 17" B SIZE

EXISTING ANTENNA MODELS, POSITIONS & AZIMUTHS ARE ASSUMED BASED ON RFDS. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION & COORDINATE WITH AT&T RF ENGINEER FOR ANY DISCREPANCY.

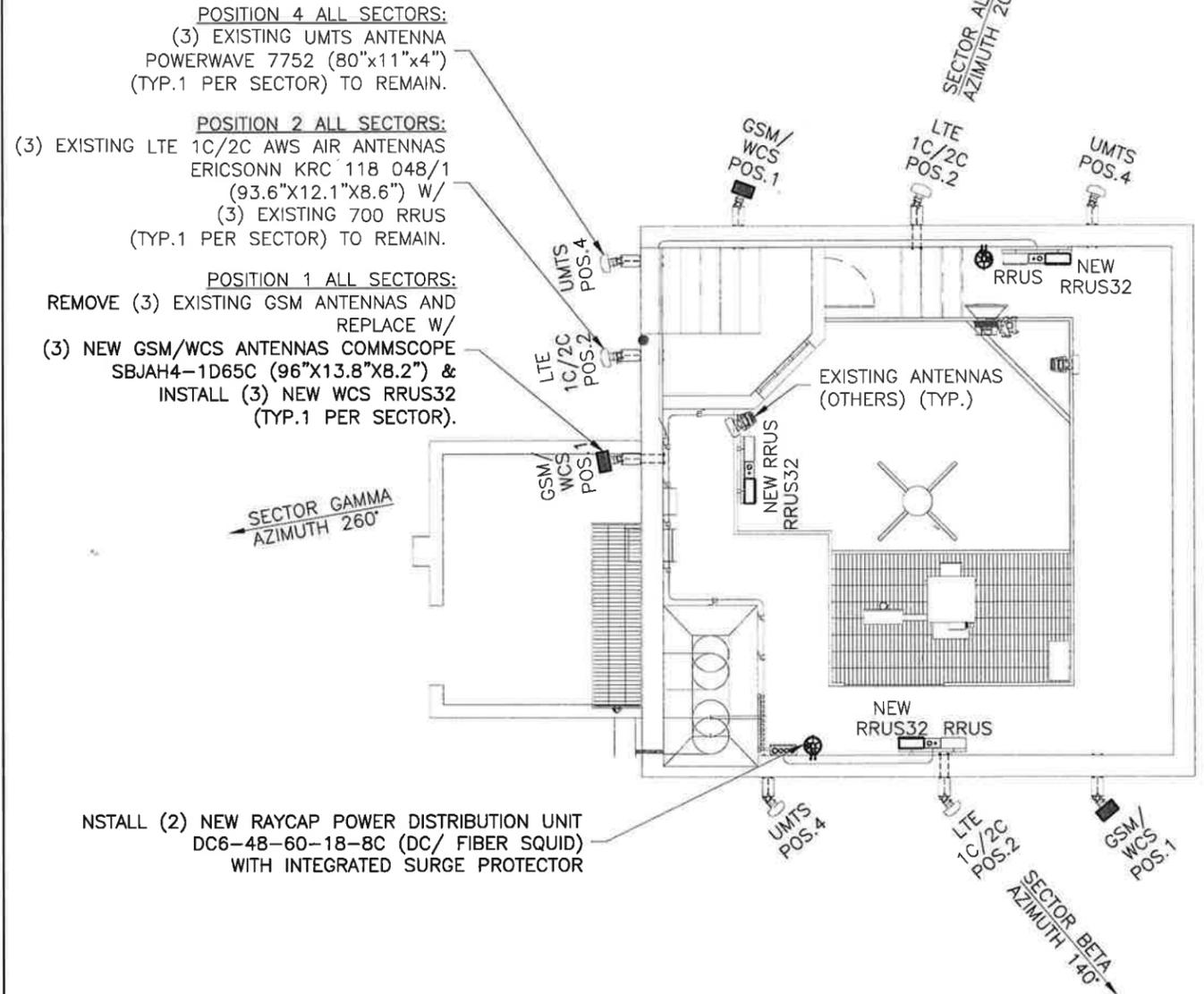
REFER TO RF DESIGN SHEET FOR ADDITIONAL INFORMATION ON TMA'S/DIPLEXERS/DC&FIBER BOX/SQUID

MOUNT PROPOSED OR RELOCATE EXISTING RRU/RRH USING APPROVED ERICSSON BRACKET SXX 107 2839 OR SXX 107 2841

RELOCATE/ ADD/ REPLACE MOUNTING PIPES AS REQUIRED TO ACCOMMODATE NEW ANTENNAS



1 LTE 2C/ EXISTING ANTENNA LAYOUT
 SCALE: N.T.S.



2 PROPOSED 3C (WCS) ANTENNA LAYOUT
 SCALE: N.T.S.

MasTec
 Network Solutions
 1351 E. Irving Park Rd
 Itasca, IL 60143

Apex Engineers, Inc.
 Structural & Civil Engineers
 500 East 22nd Street, Suite B
 Lombard, Illinois 60148
 Ph. (630) 627-1800
 Fax. (630) 627-1165
 APEX JOB No. GM10-286

NORTH BATAVIA
 SITE NO. IL0859
 SITERRA NO. 101093-A
 901 NORTH BATAVIA AVENUE
 BATAVIA, IL 60510



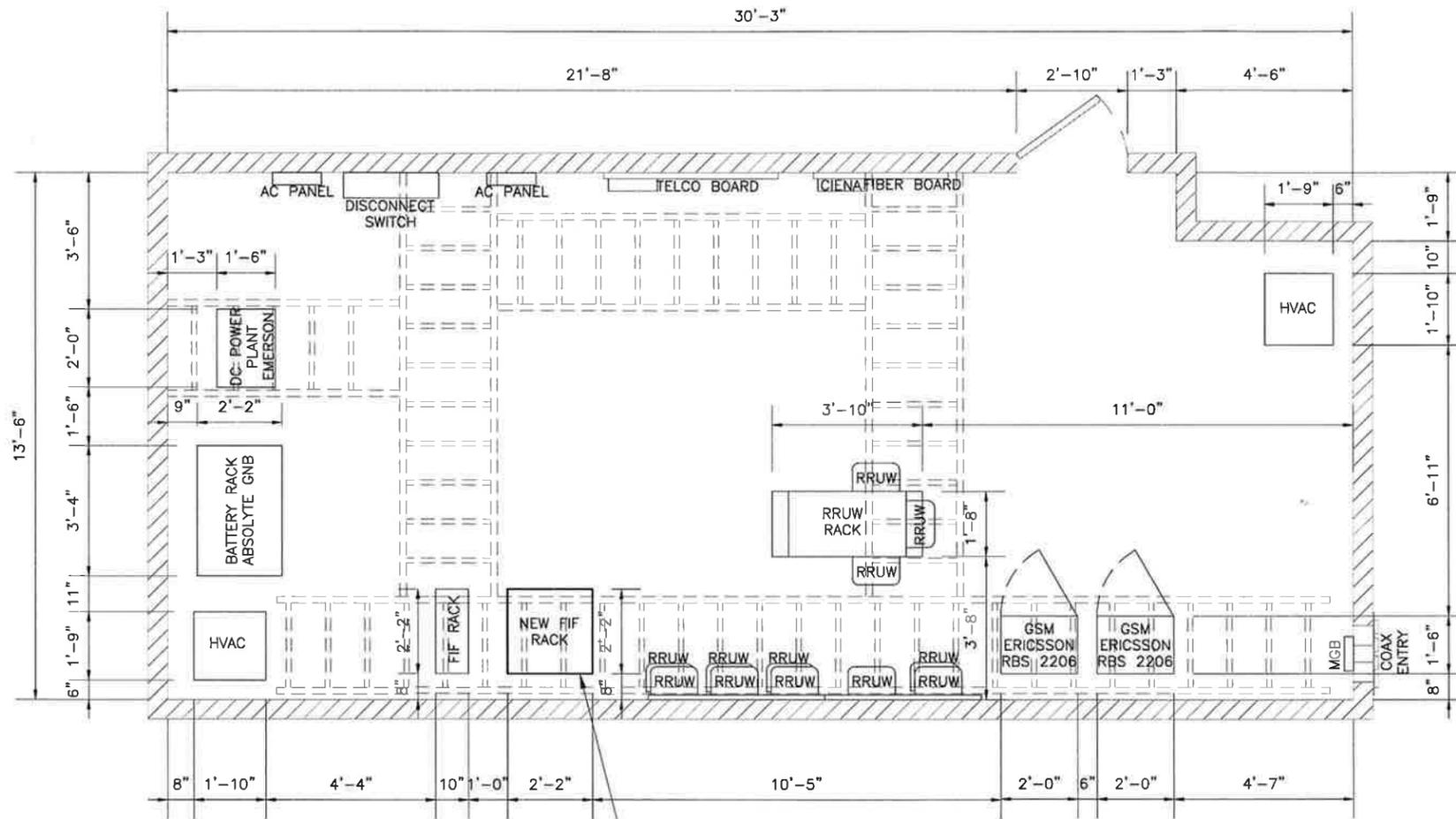
NO.	DATE	REVISIONS	BY	CHK	APP'D
A	08/12/16	ISSUED FOR REVIEW	YA	EW	SP
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AT&T MOBILITY	
ANTENNA LAYOUT	
DRAWING NUMBER	REV
IL0859-05	A

NOTES:

- EXISTING SPACE FOR PROPOSED EQUIPMENT ASSUMED TO BE ADEQUATE, PRIOR TO INSTALLATION, COORDINATE FINAL LOCATION WITH CONSTRUCTION MANAGER.
- COORDINATE WITH CONSTRUCTION MANAGER FOR THE PROVISION OF DC CIRCUIT BREAKERS AND OTHER ANCILLARY ITEMS TO SUPPORT THE NEW EQUIPMENT.
- PROPERLY BOND ALL EQUIPMENT AND CONDUCTIVE SURFACES TO EXISTING GROUND PER NEC AND AT&T STANDARDS.

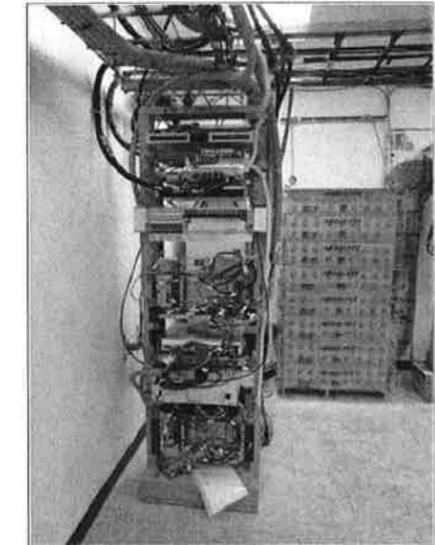
DECOM EXISTING GSM CABINET AS REQUIRED.



INSTALL NEW FIF RACK W/ LTE RBS 6601 TO SUPPORT NEW WCS EQUIPMENT. RELOCATE EXISTING LTE EQUIPMENT TO NEW RACK. SEE SHEET 06-A FOR SPEC.

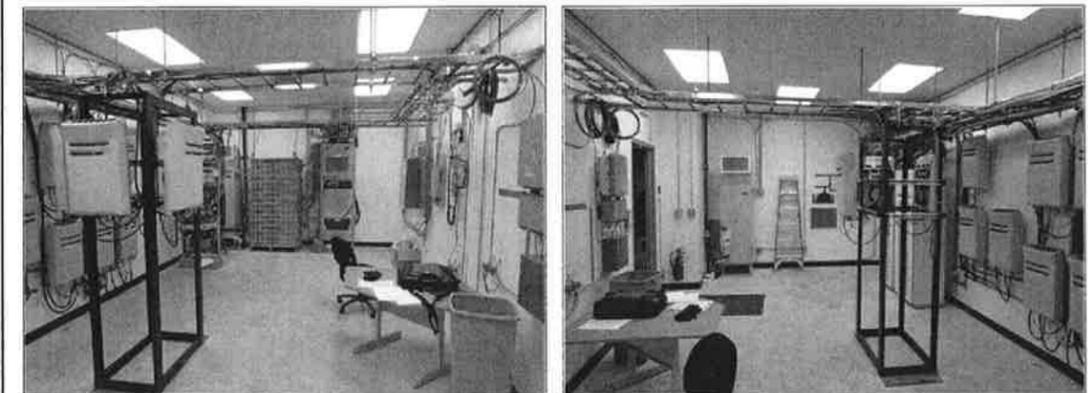
1 EQUIPMENT LAYOUT
SCALE: 1/4"=1'-0"

CONTRACTOR TO INSTALL CIRCUIT BREAKERS (PROVIDED BY AT&T) AS REQUIRED.



LTE EQUIPMENT

PICTURES ARE TAKEN ON 01/24/2013 PRIOR TO LTE 2C CONSTRUCTION



EXISTING SHELTER

- FOOTPRINT (HxWxD)
 - 66 x 483 x 350 MM (2.6 x 19 x 14 IN)
 - 1.5 U HEIGHT & 19" RACK MOUNTABLE
- WEIGHT
 - 10 KG (22 LBS)
- CLIMATE CONTROL
 - FANS (+41 TO +122F AMBIENT)
- BREAKERS/ POWER CABLE
 - -48 VDC (1x15 AMP BREAKER)
 - DC CABLE SIZE #12 AWG (4 MM²)
- POWER CONSUMPTION
 - ~100 WATTS (TYP, WITH 1 DUL-20, AND 1 SAU)
- EXTERNAL ALARMS
 - 8 INTERNAL
 - 32 VIA SEPARATE UNIT SAU UNIT
- POWER & BATTERY BACKUP
 - FROM AT&T POWER CABINET



2 RBS 6601-UNIT
SCALE: N.T.S.

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APEX JOB No. GM10-286

NORTH BATAVIA
SITE NO. IL0859
SITERRA NO. 101093-A
901 NORTH BATAVIA AVENUE
BATAVIA, IL 60510

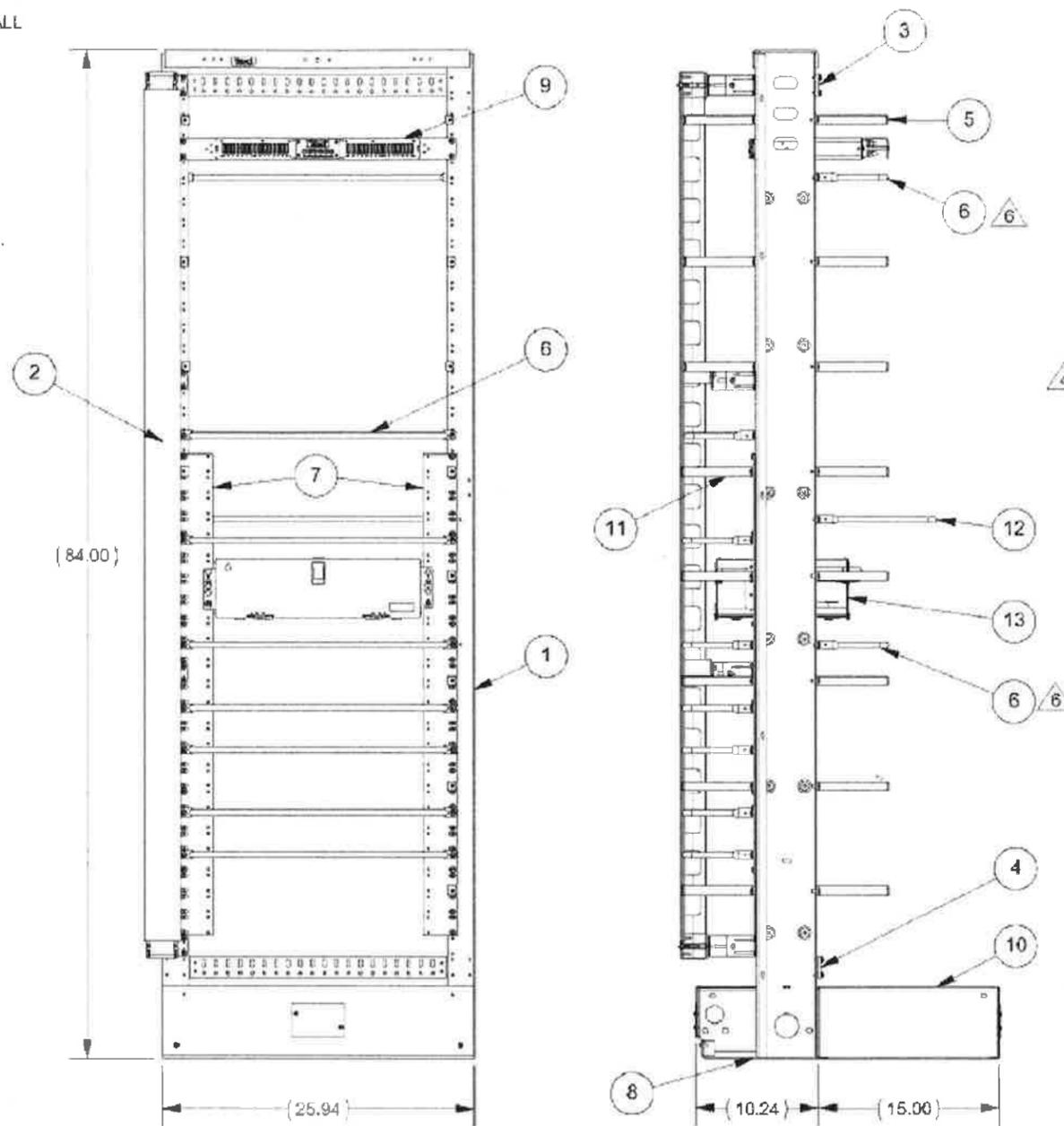


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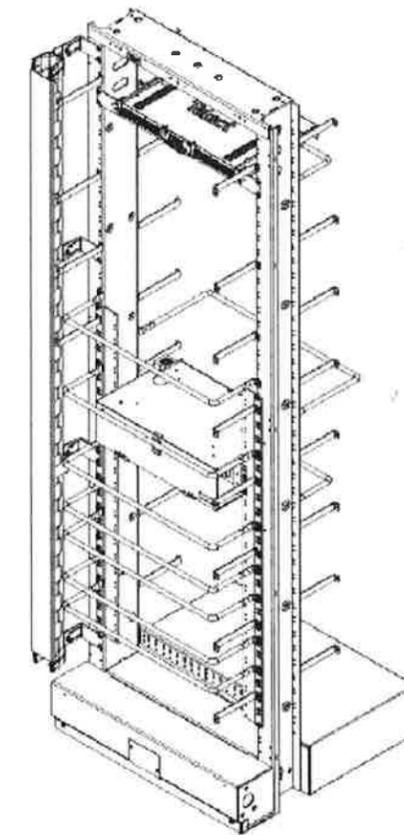
AT&T MOBILITY	
EQUIPMENT LAYOUT	
DRAWING NUMBER	REV
IL0859-06	A

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. CONFORMS IN ACCORDANCE WITH ALL TELECT WORKMANSHIP STANDARDS.
2. DIMENSIONS ARE IN INCHES.
3. DIMENSIONS ARE FOR REFERENCE.
4. ITEM 11 INSTALLED ON ISOLATED EXTENDER ITEM 7.
5. TIE BARS, ITEMS 6 AND 12, SHOWN FOR REFERENCE. PACKAGE AND SHIP WITH UNIT UNLESS OTHERWISE NOTED.
6. INSTALL TIE BARS ITEM 6.



ITEM	PART NO.	DESCRIPTION	QTY
1	12300KW201-FIF	BELL RK W/O ANCHS 23"x7" FRT GRD W/MASK	1
2	027-2000-4203A	TRAX (2) VERTICAL SLOTTED TROUGH KIT 2" SLOTS 1.5" SPACING 6' LENGTH, MID SPAN SUPPORT, OFFSET	1
3	02114-A23	GROUND BAR, 23", DUAL HOLE	1
4	02114-A23I	GROUND BAR, ISOLATED, 23", DUAL HOLE	1
5	02106-03C	BRACKET CABLE TIE ASSY, 6"	22
6	37615-14I	TIE DOWN BAR 23" MOUNT, 6" DEEP, ISOLATED	9
7	02117-23I	ISOLATED PANEL ADAPTER W/HARDWARE AND ISO PAD 23RU 23"-19" EIA	1
8	02100-113B	ANCHR KIT W/WIDE PLATES FOR EQ UFRKS 'B' ANCHOR	1
9	HPGMT15	FU PNL: DUAL 15/15 20A GMT, 100A, UNIV VOLTAGE	1
10	02122-0015	GUARD BOX UF 23" RR 25 15/16" X 15" EQ	1
11	02106-03I	BRACKET CABLE TIE, 6", ISOLATED	6
12	37615-77I	TIE DOWN BAR 23" MOUNT, 10" DEEP, ISOLATED	1
13	LCX-H3RU-01	LCX 3RU HINGED CHASSIS W/ REAR SPOOL, PATCH 72 LC PORTS	1



REV	ECO	DESCRIPTION	DATE	BY
A0	--	RESOLVED LCX MOUNTING BRKT ORIENTATION	10/06/2014	TMT

drawing no:	customer drawing	rev	units	designed by	date	tolerances (unless otherwise specified)	sheet	sheet size	scale	project	projection
017-4011-0123-0169	AT&T HYBRID FRAME	A0	inch	T. TURPIN	6/12/2014	.X ±.060 .XX ±.020 .XXX ±.010	1 of 1	B	NTS	R001	

hole size: ±.005	angularity: ±1°
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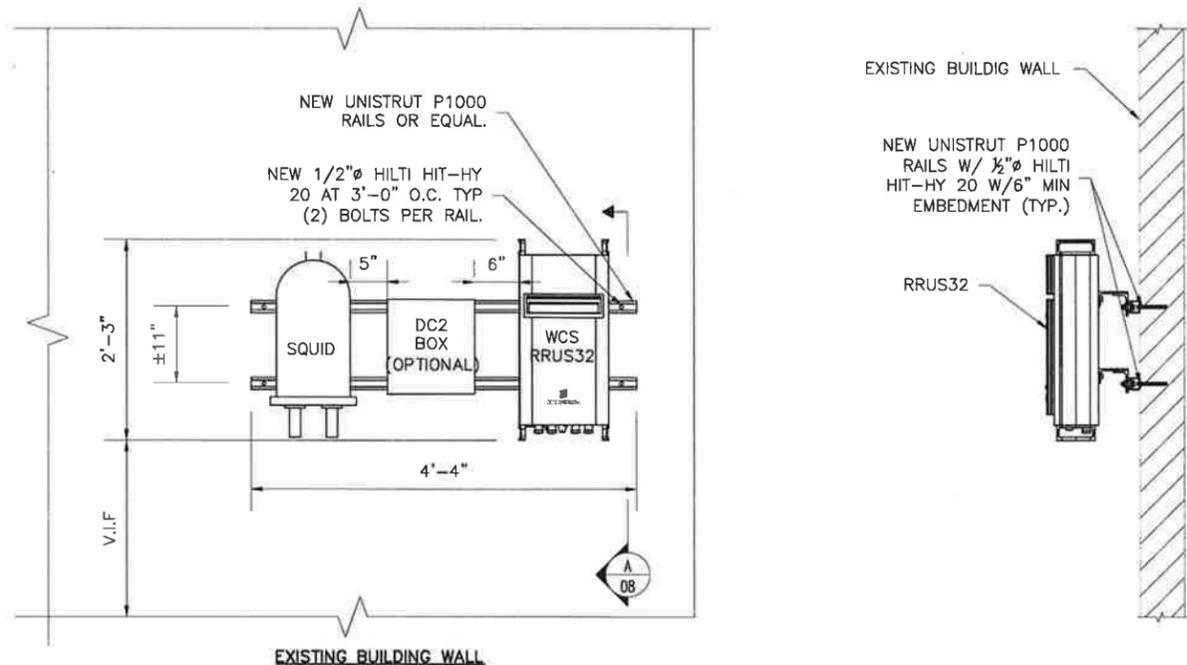
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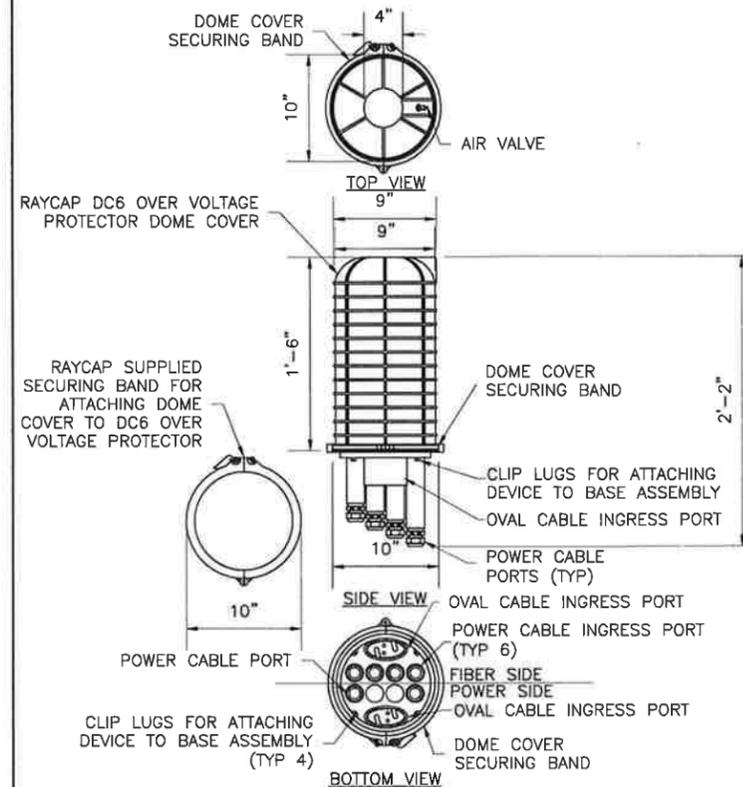
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SITE NO. IL0859
SITERRA NO. 101093-A
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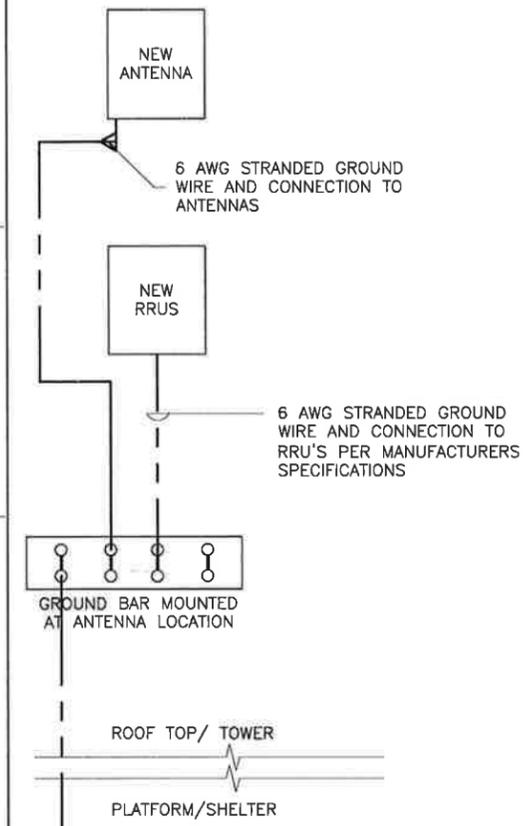
AT&T MOBILITY
NEW FIF RACK SPECIFICATION
DRAWING NUMBER: IL0859-06-A
REV: A



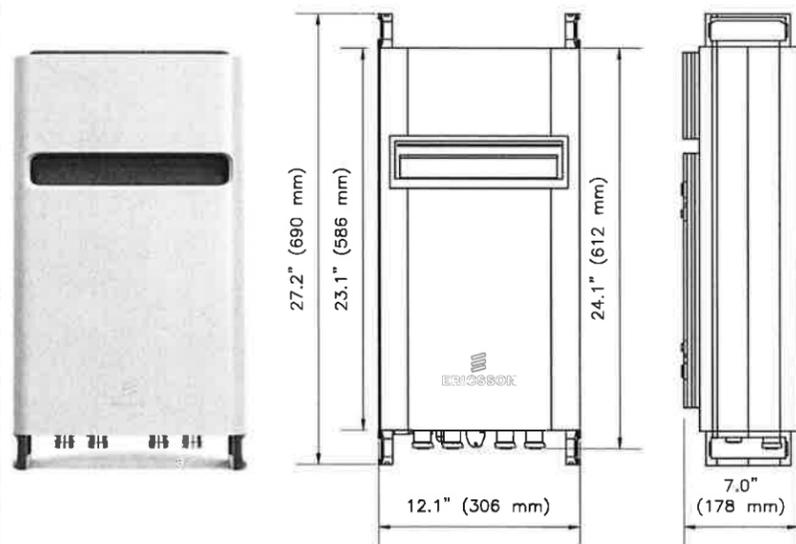
1 RRUS MOUNT DETAIL
SCALE: N.T.S.



2 RAYCAP DC6-48-60-18-8C
DC POWER OVER VOLTAGE PROTECTOR (OVP)



4 GROUNDING DIAGRAM
SCALE: N.T.S.



RRUS 32 B2

- > PCS
- TX = 1930 - 1990 MHz
- RX = 1850 - 1910 MHz
- > CPRI 2 ports x 10 Gbps. Install 2 SFPs and connect 2 fiber pairs to the RRUS32 during initial install.
- > Only use Ericsson supplied and approved SFPs, RDH10247/3
- > 6 external alarm inputs
- > Max wind load @ 50m/sec = 350N
- > Breaker size = 30A, DC Power Consumption = 910W (for dimensioning)
- > 200mm horizontal separation required for side by side mounting
- > 200mm separation required from antenna backplane to radio
- > 600mm/800mm vertical outdoor/indoor separation required
- Min, Max DC cable size from squid to radio = 10, 8 AWG,
- Adapter is required for 2-wire connection
- Shielded DC cable is required
- Ground cable size = 2AWG
- > Dimensions (incl. handles, feet and sunshield)
- Height: 27.2" (690 mm)
- Width: 12.1" (306 mm)
- Depth: 7.0" (178 mm)
- > Weight, excl. mounting hardware = 53 lbs (24 kg)

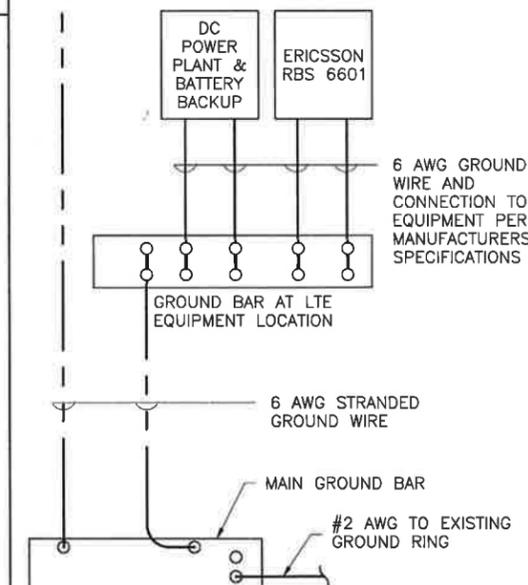
RRUS 32 B30

- > WCS A+B blocks
- TX = 2350 - 2360 MHz
- RX = 2305 - 2315 MHz
- > CPRI 2 ports x 10 Gbps
- > Only use Ericsson supplied and approved SFPs
- > 6 external alarm inputs
- > Max wind load @ 50m/sec = 350N
- > Breaker size = 20A, DC Power Consumption = 800W
- > 200mm horizontal separation required for side by side mounting
- > 200mm separation required for antenna backplane to radio
- > 600mm/800mm vertical outdoor/indoor separation required
- Max DC cable size from squid to radio = 8AWG
- Adapter is required for 2-wire connection
- Shielded DC cable is required
- > Ground cable size = 2AWG
- > Dimensions (incl. handles, feet and sunshield)
- Height: 27.2" (690 mm)
- Width: 12.1" (306 mm)
- Depth: 7.0" (178 mm)
- > Weight, excl. mounting hardware = 53 lbs (24 kg)

RRUS 32 B66

- > AWS
- TX = 2110 - 2180 MHz
- RX = 1710 - 1780 MHz
- > CPRI 2 ports x 10 Gbps. Install 2 SFPs and connect 2 fiber pairs to the RRUS32 during initial install.
- > Only use Ericsson supplied and approved SFPs RDH10247/3
- > 6 external alarm inputs
- > Max wind load @ 50m/sec = 350N
- > Breaker size = 30A, DC Power Consumption = 880W (for dimensioning)
- > 200mm horizontal separation required for side by side mounting
- > 200mm separation required from antenna backplane to radio
- > 600mm/800mm vertical outdoor/indoor separation required
- Min, Max DC cable size from squid to radio = 10, 8 AWG
- Adapter is required for 2-wire connection
- Shielded DC cable is required
- Ground cable size = 2AWG
- > Dimensions (incl. handles, feet and sunshield)
- Height: 27.2" (690 mm)
- Width: 12.1" (306 mm)
- Depth: 7.0" (178 mm)
- > Weight, excl. mounting hardware = 53 lbs (24 kg)

3 RRUS32 SPECIFICATIONS
SCALE: N.T.S.



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AT&T MOBILITY
CONSTRUCTION DETAILS
DRAWING NUMBER
IL0859-07

SECTOR	ANTENNA NUMBER	POLARITY/PORT	TOP AND BOTTOM JUMPER COLOR	COAX ID	ANTENNA MODEL NUMBER	ANTENNA VENDOR	TMA/ DIPL./RRU MODEL NUMBER	AZIMUTH	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	ANTENNA CENTERLINE FROM GROUND	ANTENNA TIP HEIGHT	COAXIAL FEEDER		ANTENNA TYPE	
													SIZE	LENGTH		
A	A1	850	R W SI	A1-1	SBJAH4-1D65C	COMMSCOPE	(2) TMAs	20°	-	-	98'-0"	101'-0"	(2) 1-5/8"	±280'-0"	GSM	
		WCS	R W Br	A1-2			(1) RRUS32						FIBER		WCS	
	A2	700	R O SI	A2-1	KRC 118 048/1	ERICSSON	(1) RRUS	20°	-	-	98'-0"	101'-0"	FIBER	±280'-0"	LTE 1C	
		AWS	R O Br	A2-2											LTE 2C	
	A3			R Br SI	A3-1											
				R Br Br	A3-2											
	A4	850	R V SI	A4-1	7752	POWERWAVE	(2) TMAs	20°	-	-	99'-0"	101'-0"	(2) 1-5/8"	±280'-0"	UMTS	
		1900	R V Br	A4-2												
B	B1	850	BI W SI	B1-1	SBJAH4-1D65C	COMMSCOPE	(2) TMAs	140°	-	-	98'-0"	101'-0"	(2) 1-5/8"	±240'-0"	GSM	
		WCS	BI W Br	B1-2			(1) RRUS32						FIBER		WCS	
	B2	700	BI O SI	B2-1	KRC 118 048/1	ERICSSON	(1) RRUS	140°	-	-	98'-0"	101'-0"	FIBER	±240'-0"	LTE 1C	
		AWS	BI O Br	B2-2											LTE 2C	
	B3			BI Br SI	B3-1											
				BI Br Br	B3-2											
	B4	850	BI V SI	B4-1	7752	POWERWAVE	(2) TMAs	140°	-	-	99'-0"	101'-0"	(2) 1-5/8"	±240'-0"	UMTS	
		1900	BI V Br	B4-2												
C	C1	850	G W SI	C1-1	SBJAH4-1D65C	COMMSCOPE	(2) TMAs	260°	-	-	98'-0"	101'-0"	(2) 1-5/8"	±300'-0"	GSM	
		WCS	G W Br	C1-2			(1) RRUS32						FIBER		WCS	
	C2	700	G O SI	C2-1	KRC 118 048/1	ERICSSON	(1) RRUS	260°	-	-	98'-0"	101'-0"	FIBER	±300'-0"	LTE 1C	
		AWS	G O Br	C2-2											LTE 2C	
	C3			G Br SI	C3-1											
				G Br Br	C3-2											
	C4	850	G V SI	C4-1	7752	POWERWAVE	(2) TMAs	260°	-	-	99'-0"	101'-0"	(2) 1-5/8"	±300'-0"	UMTS	
		1900	G V Br	C4-2												

THESE ANTENNA MATRIX TABLE IS PREPARED BASED ON INFORMATION PROVIDED BY MASTEC NETWORK SOLUTIONS. GENERAL CONTRACTOR TO VERIFY AND INCORPORATE MOST RECENT VERSION OF RFDS PRIOR TO CONSTRUCTION.

1 ANTENNA MATRIX
NTS

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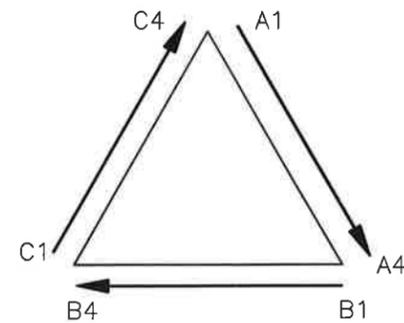
ANTENNA MATRIX

DRAWING NUMBER
IL0859-08

CABLE MARKING COLOR CONVENTION TABLE

ALPHA, A, X, #1 SECTOR ANTENNA PORT (+/-)	A1-1	A1-2	A2-1	A2-2	A3-1	A3-2	A4-1	A4-2
	+45	-45	+45	-45	+45	-45	+45	-45
BAND (LOW/HI) *SEE NOTES 13 AND 15	ORANGE / VIOLET							
BEAM (LEFT/RIGHT) *SEE NOTE 14 BELOW	SLATE / YELLOW							
BETA, B, Y, #2 SECTOR ANTENNA PORT	B1-1	B1-2	B2-1	B2-2	B3-1	B3-2	B4-1	B4-2
	+45	-45	+45	-45	+45	-45	+45	-45
BAND (LOW/HI) *SEE NOTES 13 AND 15	ORANGE / VIOLET							
BEAM (LEFT/RIGHT) *SEE NOTE 14 BELOW	SLATE / YELLOW							
GAMMA, C, Z, #3 SECTOR ANTENNA PORT	C1-1	C1-2	C2-1	C2-2	C3-1	C3-2	C4-1	C4-2
	+45	-45	+45	-45	+45	-45	+45	-45
BAND (LOW/HI) *SEE NOTES 13 AND 15	ORANGE / VIOLET							
BEAM (LEFT/RIGHT) *SEE NOTE 14 BELOW	SLATE / YELLOW							
DELTA, D, #4 SECTOR ANTENNA PORT	D1-1	D1-2	D2-1	D2-2	D3-1	D3-2	D4-1	D4-2
	+45	-45	+45	-45	+45	-45	+45	-45
BAND (LOW/HI) *SEE NOTES 13 AND 15	ORANGE / VIOLET							
BEAM (LEFT/RIGHT) *SEE NOTE 14 BELOW	SLATE / YELLOW							

FIGURE 1: ANTENNA ORIENTATION



NOTE: ALPHA STARTS AT 0 (NORTH) OR FIRST AZIMUTH AFTER 0
 NOTE: BETA IS FIRST AZIMUTH AFTER ALPHA IN CLOCK-WISE DIRECTION
 NOTE: GAMMA IS FIRST AZIMUTH AFTER BETA IN CLOCK-WISE DIRECTION
 NOTE: DELTA IS FIRST AZIMUTH AFTER GAMMA IN CLOCK-WISE DIRECTION
 NOTE: AZIMUTH IS IDENTIFIED BY THE PANEL, NOT THE ELEMENTS INSIDE



at&t

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Version 2.8 - Updated 5/28/2014

CABLE MARKING TAGS

TO PROVIDE ADDITIONAL IDENTIFICATION RF CABLES SHALL BE IDENTIFIED WITH A METAL TAG MADE OF STAINLESS STEEL OR BRASS AND STAMPED WITH THE SECTOR, ANTENNA POSITION, AND CABLE NUMBER. THE ID MARKING LOCATIONS SHOULD BE AS PER "CABLE MARKING LOCATIONS TABLE". THE TAG SHOULD BE ATTACHED WITH CORROSIVE PROOF WIRE OR WAX STRING AROUND THE CABLE. THE TAG SHOULD BE LABELED AS SHOWN BELOW IN FIGURE 2.

FIGURE 2: TAG DETAIL EXAMPLE



- NOTE 1*: ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE INSTALLED USING A MINIMUM OF (3) WRAPS OF TAPE.
- NOTE 2*: ALL COLOR BANDS INSTALLED AT THE TOWER TOP SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/8" OF SPACING BETWEEN EACH COLOR.
- NOTE 3*: ALL COLOR BANDS INSTALLED AT OR NEAR THE GROUND MAY BE ONLY 3/8" WIDE. EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
- NOTE 4*: EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH 3/8" COLOR BANDS JUST PRIOR TO ENTERING THE BTS OR TRANSMITTER BUILDING.
- NOTE 5*: ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/8" BANDS ON EACH END OF THE BOTTOM JUMPER.
- NOTE 6*: ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE.
- NOTE 7*: EACH COLOR BAND SHALL HAVE A MINIMUM OF (3) WRAPS AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- NOTE 8*: X-POLE ANTENNAS SHOULD USE "XX-1" FOR THE "+45" PORT, "XX-2" FOR THE "-45" PORT.
- NOTE 9*: COLORBAND #4 REFERS TO THE FREQUENCY BAND: ORANGE=850, VIOLET=1900. USED ON JUMPERS ONLY.
- NOTE 10*: RF FEEDLINE SHALL BE IDENTIFIED WITH A METAL TAG (STAINLESS OR BRASS) AND STAMPED WITH THE SECTOR, ANTENNA POSITION, AND CABLE NUMBER.
- NOTE 11*: ANTENNAS MUST BE IDENTIFIED, USING THE SECTOR LETTER AND ANTENNA NUMBER, WITH A BLACK MARKER PRIOR TO INSTALLATION.
- NOTE 12*: ONLY "SECTOR-SPLIT" ANTENNA COAX SHALL CONTAIN A 5TH COLORBAND TO INDICATE "LEFT" OR "RIGHT" BEAM.
- NOTE 13*: "SECTOR-SPLIT" ANTENNA COAX SHALL USE BLACK TAPE AS A PLACEHOLDER ON MAINLINE FOR COLORBAND #4 (FREQ BAND)
- NOTE 14*: "SECTOR-SPLIT" ANTENNAS SLATE FOR THE LEFT BEAM, AND YELLOW FOR THE RIGHT BEAM
- NOTE 15*: "LOW" BAND REFERS TO 700MHZ OR 850MHZ, "HI" BAND REFERS TO 1900MHZ OR 2100MHZ

CABLE MARKING LOCATIONS TABLE		
TAPE	TAG	LOCATIONS
X		EACH TOP JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
X		EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS JUST PRIOR TO ENTERING THE BTS OR TRANSMITTER BUILDING.
	X	MARKING TAGS SHALL BE ATTACHED AT CABLE ENTRY PORT ON THE INTERIOR OF THE SHELTER
X		ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF BOTTOM JUMPER.

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AT&T MOBILITY

COAX COLOR CODING

DRAWING NUMBER
IL0859-09

11 x 17" B SIZE

MIDWEST FIBER-OPTIC JUMPER COLOR CODE STANDARD (Version 2.8 - Updated 5/28/2014)

SECTOR	TECHNOLOGY	BAND	RADIO NAME	COLOR CODE				NOTES
A	LTE	700	LTE-700-A1	RED	ORANGE	BROWN	VIOLET	
A	LTE	2100	LTE-2100-A2	RED	ORANGE	WHITE	VIOLET	
A	LTE	2100	LTE-2100-A3	RED	ORANGE	WHITE	BROWN	"A2" MODULE, SEE NOTE 1 BELOW
A	UMTS	850	UMTS-850-A4	RED	SLATE	VIOLET	VIOLET	
A	LTE	850	LTE-850-A4S	RED	ORANGE	VIOLET	YELLOW	"TECHNOLOGY-SPLIT"
A	UMTS	1900	UMTS-1900-A5	RED	SLATE	ORANGE	VIOLET	
A	LTE	1900	LTE-1900-A5S	RED	ORANGE	ORANGE	YELLOW	"TECHNOLOGY-SPLIT"
A	LTE	1900	LTE-1900-A6	RED	ORANGE	ORANGE	SLATE	"A2" MODULE, SEE NOTE 1&2 BELOW
A	LTE	700D/E	LTE-700DE-A7	RED	ORANGE	YELLOW	VIOLET	
A	LTE	WCS	LTE-WCS-A8	RED	ORANGE	SLATE	VIOLET	
A	LTE	850	LTE-850-A9	RED	ORANGE	VIOLET	VIOLET	
A	LTE	1900	LTE-1900-A10	RED	ORANGE	ORANGE	VIOLET	
A	LTE	1900	LTE-1900-A11	RED	ORANGE	ORANGE	BROWN	"A2" MODULE, SEE NOTE 1 BELOW
B	LTE	700	LTE-700-B1	BLUE	ORANGE	BROWN	VIOLET	
B	LTE	2100	LTE-2100-B2	BLUE	ORANGE	WHITE	VIOLET	
B	LTE	2100	LTE-2100-B3	BLUE	ORANGE	WHITE	BROWN	"A2" MODULE, SEE NOTE 1 BELOW
B	UMTS	850	UMTS-850-B4	BLUE	SLATE	VIOLET	VIOLET	
B	LTE	850	LTE-850-B4S	BLUE	ORANGE	VIOLET	YELLOW	"TECHNOLOGY-SPLIT"
B	UMTS	1900	UMTS-1900-B5	BLUE	SLATE	ORANGE	VIOLET	
B	LTE	1900	LTE-1900-B5S	BLUE	ORANGE	ORANGE	YELLOW	"TECHNOLOGY-SPLIT"
B	LTE	1900	LTE-1900-B6	BLUE	ORANGE	ORANGE	SLATE	"A2" MODULE, SEE NOTE 1&2 BELOW
B	LTE	700D/E	LTE-700DE-B7	BLUE	ORANGE	YELLOW	VIOLET	
B	LTE	WCS	LTE-WCS-B8	BLUE	ORANGE	SLATE	VIOLET	
B	LTE	850	LTE-850-B9	BLUE	ORANGE	VIOLET	VIOLET	
B	LTE	1900	LTE-1900-B10	BLUE	ORANGE	ORANGE	VIOLET	
B	LTE	1900	LTE-1900-B11	BLUE	ORANGE	ORANGE	BROWN	"A2" MODULE, SEE NOTE 1 BELOW
C	LTE	700	LTE-700-C1	GREEN	ORANGE	BROWN	VIOLET	
C	LTE	2100	LTE-2100-C2	GREEN	ORANGE	WHITE	VIOLET	
C	LTE	2100	LTE-2100-C3	GREEN	ORANGE	WHITE	BROWN	"A2" MODULE, SEE NOTE 1 BELOW
C	UMTS	850	UMTS-850-C4	GREEN	SLATE	VIOLET	VIOLET	
C	LTE	850	LTE-850-C4S	GREEN	ORANGE	VIOLET	YELLOW	"TECHNOLOGY-SPLIT"
C	UMTS	1900	UMTS-1900-C5	GREEN	SLATE	ORANGE	VIOLET	
C	LTE	1900	LTE-1900-C5S	GREEN	ORANGE	ORANGE	YELLOW	"TECHNOLOGY-SPLIT"
C	LTE	1900	LTE-1900-C6	GREEN	ORANGE	ORANGE	SLATE	"A2" MODULE, SEE NOTE 1&2 BELOW
C	LTE	700D/E	LTE-700DE-C7	GREEN	ORANGE	YELLOW	VIOLET	
C	LTE	WCS	LTE-WCS-C8	GREEN	ORANGE	SLATE	VIOLET	
C	LTE	850	LTE-850-C9	GREEN	ORANGE	VIOLET	VIOLET	
C	LTE	1900	LTE-1900-C10	GREEN	ORANGE	ORANGE	VIOLET	
C	LTE	1900	LTE-1900-C11	GREEN	ORANGE	ORANGE	BROWN	"A2" MODULE, SEE NOTE 1 BELOW

NOTE 1: A SECONDARY JUMPER TO A2 MODULES IS REQUIRED WHEN A CARRIER BANDWIDTH EXCEEDS 10x10MHZ. A2 COLOR CODE IS REQUIRED.
 NOTE 2: WHEN DEPLOYING 2 LTE CARRIERS WITHIN THE SAME BAND, F1 IS IDENTIFIED BY BROWN, F2 IS IDENTIFIED BY SLATE.

SECTORS	ALPHA	RED
	BETA	BLUE
	GAMMA	GREEN
TECH	UMTS	SLATE
	LTE	ORANGE
FREQBAND	700	BROWN
	850	VIOLET
	1900	ORANGE
	2100	WHITE
	WCS	YELLOW
	700DE	SLATE
PORT	MASTER	VIOLET
	SPLIT/SLAVE	YELLOW
	>10MHZ A2 MODULE F1	BROWN
	>10MHZ A2 MODULE F2	SLATE

NOTE: "RED", "BLUE", AND "GREEN" ARE NOT USED ON ANY OTHER COLOR BAND AND ALWAYS DE-NOTE THE 1st COLOR BAND

WISIL STANDARD FIBER-OPTIC DEPLOYMENT PLANS (Version 2.8 - Updated 5/28/2014)

NOTE: ** DENOTES SPECIAL DEPLOYMENT WHERE RRR IS TECHNOLOGY SPLIT WITH UMTS AND LTE
 NOTE: RRR'S DIPICTED IN PARENTHESES AND ITALICS INDICATE ERICSSON "A2" MODULES

FIBER TRUNK #1

RRR NAME	SECTOR	TECHNOLOGY	BAND	FIBER TRAY ID	FIBER TRAY PORT	SQUID/TRUNK PAIR
LTE-700-A1	A	LTE	700	A	1	1
LTE-700-B1	B	LTE	700	A	2	2
LTE-700-C1	C	LTE	700	A	3	3
LTE-2100-A2 (LTE-2100-A3)	A	LTE	2100	A	4	4
LTE-2100-B2 (LTE-2100-B3)	B	LTE	2100	A	5	5
LTE-2100-C2 (LTE-2100-C3)	C	LTE	2100	A	6	6
LTE-1900-A10 (LTE-1900-A11)	A	LTE	1900	A	7	7
**LTE-1900-A5s (LTE-1900-A6)	A	LTE	1900	A	7	7
LTE-1900-B10 (LTE-1900-B11)	B	LTE	1900	A	8	8
**LTE-1900-B5s (LTE-1900-B6)	B	LTE	1900	A	8	8
LTE-1900-C10 (LTE-1900-C11)	C	LTE	1900	A	9	9
**LTE-1900-C5s (LTE-1900-C6)	C	LTE	1900	A	9	9
LTE-850-A9/LTE-850-A4s	A	LTE	850	A	10	10
LTE-850-B9/LTE-850-B4s	B	LTE	850	A	11	11
LTE-850-C9/LTE-850-C4s	C	LTE	850	A	12	12
SPARE				B	7	13
SPARE				B	8	14
SPARE				B	9	15
SPARE				B	10	16
SPARE				B	11	17
SPARE				B	12	18

FIBER TRUNK #2

RRR NAME	SECTOR	TECHNOLOGY	BAND	FIBER TRAY ID	FIBER TRAY PORT	SQUID/TRUNK PAIR
UMTS-850-A4	A	UMTS	850	C	1	1
UMTS-850-B4	B	UMTS	850	C	2	2
UMTS-850-C4	C	UMTS	850	C	3	3
UMTS-1900-A5	A	UMTS	1900	C	4	4
UMTS-1900-B5	B	UMTS	1900	C	5	5
UMTS-1900-C5	C	UMTS	1900	C	6	6
UMTS-1900-A6	A	UMTS	1900	C	7	7
UMTS-1900-B6	B	UMTS	1900	C	8	8
UMTS-1900-C6	C	UMTS	1900	C	9	9
LTE-700-DE-A7	A	LTE	700DE	C	10	10
LTE-700-DE-B7	B	LTE	700DE	C	11	11
LTE-700-DE-C7	C	LTE	700DE	C	12	12
LTE-WCS-A8	A	LTE	WCS	B	1	13
LTE-WCS-B8	B	LTE	WCS	B	2	14
LTE-WCS-C8	C	LTE	WCS	B	3	15
SPARE				B	4	16
SPARE				B	5	17
SPARE				B	6	18

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NO.	DATE	ISSUED FOR REVIEW	BY	CHK	APP'D
A	08/12/16	ISSUED FOR REVIEW	YA	EW	SP
REVISIONS					
SCALE:	AS SHOWN	DESIGNED BY:	XX	DRAWN BY:	XX

AT&T MOBILITY

FIBER-OPTIC JUMPER COLOR CODING

DRAWING NUMBER: IL0859-10
 REV: A

