

PROJECT INFORMATION	
APPLICANT:	AT&T 930 NATIONAL PARKWAY SCHAUMBURG, IL 60173
FA CODE:	10094797
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
STRUCTURE TYPE:	MONOPOLE
SITE ADDRESS:	1601 WEST GIFT AVENUE PEORIA, IL 61604
PROPERTY OWNER:	AMERICAN TOWER CORPORATION (ATC, 50690, EL VISTA) 10 PRESIDENTIAL WAY WOBURN, MA 01801
CONTACT PERSON:	JAMES PALMER PHONE: 781-926-4758
PARCEL NUMBER:	TBD
JURISDICTION:	PEORIA COUNTY
LATITUDE:	40° 43' 13.699" N
LONGITUDE:	89° 37' 09.998" W
LAT/ LONG TYPE:	NAD 83
GROUND ELEVATION:	607 AMSL
POWER COMPANY:	AMEREN CIPS
PHONE:	(866) 992-6619
TELEPHONE COMPANY:	AT&T
PHONE:	(800) 257-0902



## SITE NUMBER: IL5550 SITE NAME: EL VISTA

**PROJECT:**  
LTE 3C (1900)/ LTE 4C FNET (700)\_RESCOPE

**PROJECT DESCRIPTION:**  
REMOVE EXISTING MOUNTING FRAME & REPLACE W/ 20' MONOPOLE EXTENSION.  
INSTALL NEW PLATFORM. RELOCATE (6) ANTENNAS  
REPLACE (3) EXISTING ANTENNAS, INSTALL (6) NEW RRUS ON POS.1.  
REMOVE (6) COAX CABLES & GSM TMA's.  
ADD (1) DC POWER & (1) FIBER CABLES. ADD (1) NEW RAYCAP DC6.

AT&T APPROVAL	
SITE ACQUISITION MANAGER:	Date
MASTEC CONSTRUCTION MANAGER:	Date
MASTEC SA PROJECT MANAGER:	Date
MASTEC SA SPECIALIST:	Date
MASTEC COMPLIANCE MANAGER:	Date
AT&T RF PROJECT MANAGER:	Date
AT&T PROJECT MANAGER:	Date

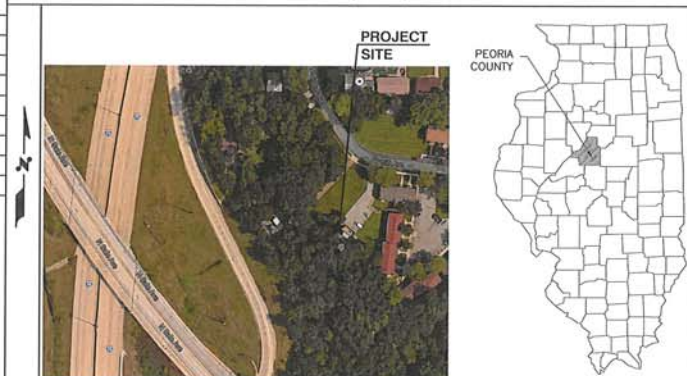
AT&T MOBILITY APPROVAL	
Real Estate	Date
RF	Date
Operation	Date

LTE PROJECT					
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
700	AWS	1900	850	WCS	FNET 700

DRAWING INDEX		REV
IL5550-01	TITLE SHEET	B
IL5550-02	SITE PLAN	B
IL5550-03	ELEVATION	B
IL5550-04	ANTENNA LAYOUT	B
IL5550-05	EQUIPMENT LAYOUT	B
IL5550-06	RRUS SPECIFICATIONS	B
IL5550-07	CONSTRUCTION DETAILS	B
IL5550-08	ANTENNA MATRIX	B
IL5550-09	COAX COLOR CODING	B
IL5550-10	FIBER-OPTIC JUMPER COLOR CODING	B
IL5550-11	GENERAL NOTES	B
IL5550-S01	MOUNT MODIFICATION	B
IL5550-S02	PLATFORM DETAILS	B
IL5550-S03	PLATFORM DETAILS	B
IL5550-S04	PLATFORM DETAILS	B

**VICINITY MAP**

**DIRECTION: (FROM O'HARE INTERNATIONAL AIRPORT)**  
DEPART CHICAGO O'HARE INTERNATIONAL AIRPORT TAKE RAMP (RIGHT) ONTO I-190/CHICAGO AT EXIT 1D, TURN RIGHT ONTO RAMP I-294/INDIANA MERGE ONTO I-294 (TRI-STATE TOLLWAY) TURN RIGHT ONTO RAMP I-55/STEVENS ON EXPY/CHICAGO/ST LOUIS TAKE RAMP (RIGHT) ONTO I-55 (JOLIET RD S)-55/STEVENS ON EXPY/ST LOUIS AT EXIT 163, TAKE RAMP (RIGHT) ONTO I-74/PEORIA AT EXIT 91B, TURN RIGHT ONTO RAMP UNIVERSITY ST NORTH BEAR RIGHT (NORTH) ONTO N UNIVERSITY ST TURN LEFT (WEST) ONTO W GIFT AVE TURN LEFT TO STAY ON W GIFT AVE ARRIVE 1601 W GIFT AVE, PEORIA, IL 61604



**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), 2015 AS ADOPTED BY LOCAL BUILDING AUTHORITY]

**ELECTRICAL CODE:**  
[NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70-2002;  
2011 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, CONSTRUCTION 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.



**SITE QUALIFICATION PARTICIPANTS**

	NAME	COMPANY	NUMBER
A/E	SATISH PATEL	APEX ENGINEERS, INC.	(630) 627-1800
SA	MANUEL M. FERRA	MASTEC	(847) 463-5957
RF		AT&T MOBILITY	
PM	LAURA FEHRMAN	MASTEC	(847) 634-4949
CM		MASTEC	

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.

DATE: 08/27/19

SATISHKUMAR C. PATEL, S.E.  
ILLINOIS S.E. LICENSE # 081-004996  
EXPIRES 11-30-2020

**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. AT12-236

**EL VISTA  
SITE NO. IL5550**  
1601 WEST GIFT AVENUE  
PEORIA, IL 61604

NO.	DATE	REVISIONS	BY	CHK	APP'D
B	08/27/19	REVISED PER COMMENTS	EX	VA	SP
A	11/07/18	ISSUED FOR REVIEW	DW	EW	SP

SCALE: AS SHOWN    DESIGNED BY: XX    DRAWN BY: XX

AT&T MOBILITY	
TITLE SHEET	
DRAWING NUMBER	IL5550-01

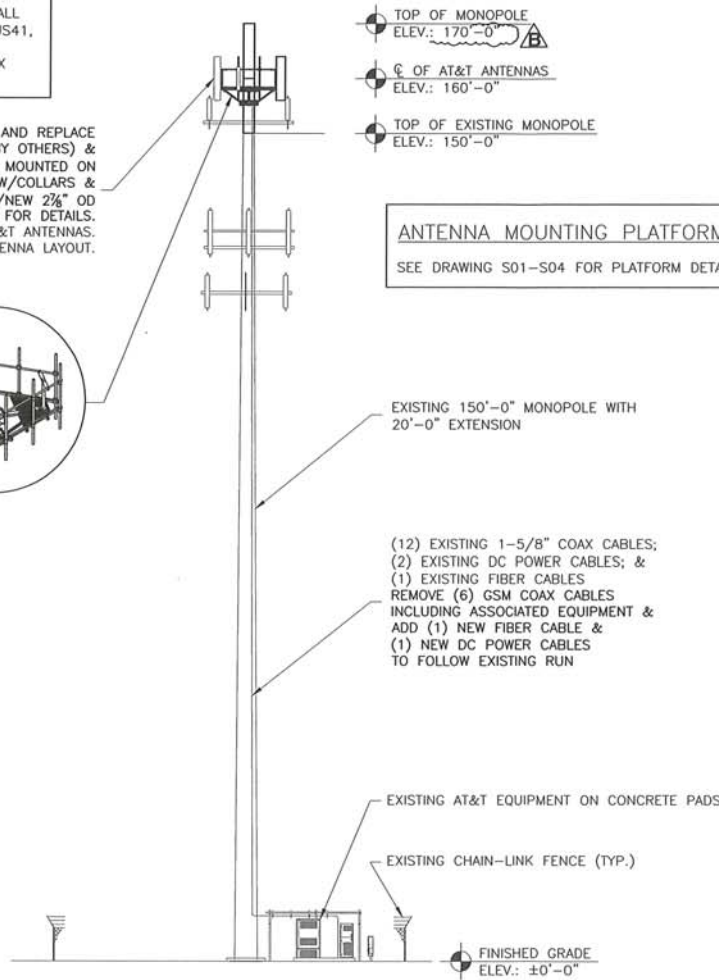
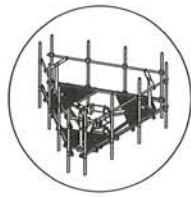


STRUCTURAL ANALYSIS BY OTHERS

NOTE:

REFER TO RF DESIGN SHEET/ SCOPING FORM & INSTALL AS REQUIRED DC/FC BOX, XMU, FIBER BOX 6601, DUS41, PATCH PANEL TELECT 5216, BREAKERS & MISC. EQUIPMENT. ALSO, DECOM GSM/UMTS EQUIPMENT/COAX AS SHOWN ON SCOPING FORM.

REMOVE EXISTING AT&T MOUNTING FRAME AND REPLACE W/ 20' MONOPOLE EXTENSION (DESIGNED BY OTHERS) & INSTALL NEW AT&T ANTENNAS W/ RRH MOUNTED ON SABRE C10855665C 12'HD PLATFORM W/COLLARS & ENHANCED SUPPORT RAIL OR EQUAL W/NEW 2 1/2" OD MOUNTING PIPES. SEE SHEET 12, 13 & 14 FOR DETAILS. EXISTING/PROPOSED AT&T ANTENNAS. SEE SHEET 04 FOR ANTENNA LAYOUT.



ANTENNA MOUNTING PLATFORM REPLACEMENT:

SEE DRAWING S01-S04 FOR PLATFORM DETAILS

PICTURES TAKEN ON 07/07/2016 PRIOR TO LTE 2C CONSTRUCTION



SECTOR ALPHA



SECTOR BETA



EXISTING TOWER



SECTOR GAMMA

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

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SCALE: AS SHOWN		DESIGNED BY: XX	DRAWN BY: XX		

AT&T MOBILITY

ELEVATION

DRAWING NUMBER  
IL5550-03

REV  
B

11 x 17 B SIZE

6

5

4

↑

3

2

(1) EXISTING RAYCAP DC6-48-60-18-8C

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.

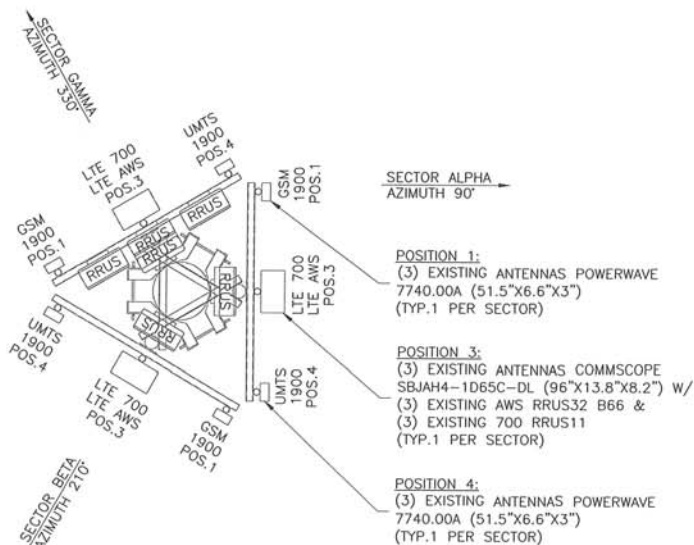
REFER TO RF DESIGN SHEET FOR ADDITIONAL INFORMATION ON TMA'S/DIPLEXERS/DC&FIBER BOX/SQUID

(1) EXISTING RAYCAP DC6-48-60-18-8C TO REMAIN. ADD (1) NEW RAYCAP DC6-48-60-18-8C-EV.

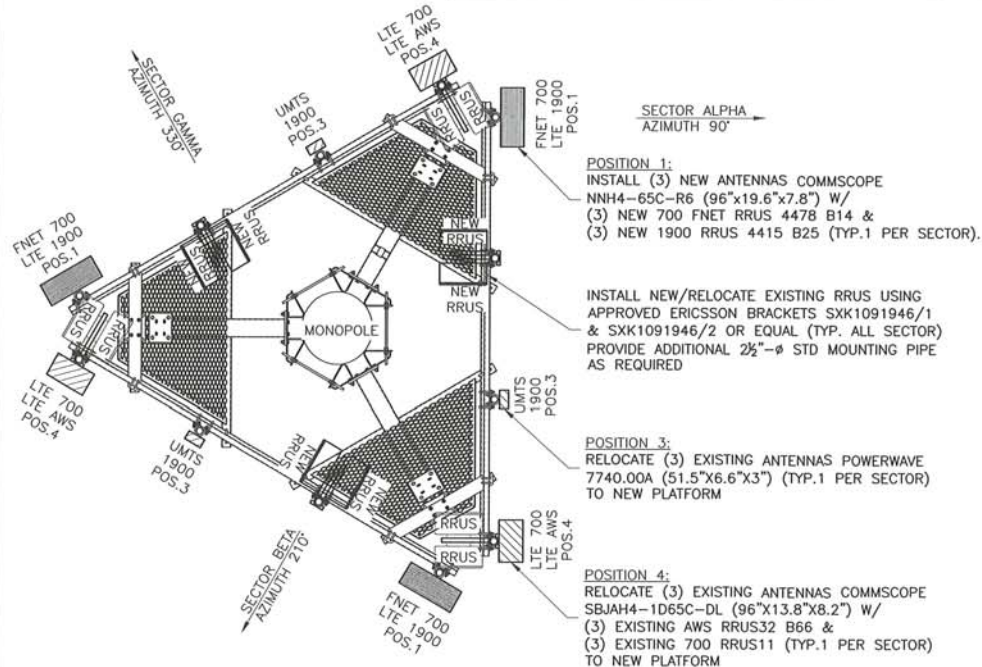
RELOCATE/ ADD/ REPLACE MOUNTING PIPES AS REQUIRED TO ACCOMMODATE NEW ANTENNAS

**NOTE:**

- REMOVE (3) EXISTING GSM ANTENNAS W/ (6) COAX CABLES & GSM TMA'S FROM POS.1.
- REMOVE EXISTING AT&T MOUNTING FRAME AND REPLACE W/ 20' MONOPOLE EXTENSION (DESIGNED BY OTHERS) & INSTALL NEW AT&T ANTENNAS W/ RRR MOUNTED ON SABRE C10855665C 12' HD PLATFORM W/ COLLARS & ENHANCED SUPPORT RAIL OR EQUAL W/ NEW 2 1/2" OD MOUNTING PIPES.
- GS TO VERIFY WITH RF ENGINEER NEW PLATFORM ORIENTATION AND INSTALL AS NEEDED



1 EXISTING ANTENNA LAYOUT  
SCALE: N.T.S.



2 PROPOSED ANTENNA LAYOUT  
SCALE: N.T.S.

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SCALE: AS SHOWN		DESIGNED BY: XX	DRAWN BY: XX		

AT&T MOBILITY	
ANTENNA LAYOUT	
DRAWING NUMBER	REV
IL5550-04	B

