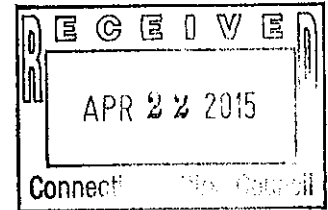


April 21, 2015



BY EMAIL & OVERNIGHT DELIVERY

Hon. Robert Stein, Chairman
and Members of the Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Petition No. 1106 - New Cingular Wireless PCS LLP ("AT&T")
Generator Relocation
168 Center Street, Southington, Connecticut

Dear Chairman Stein and Members of the Connecticut Siting Council:

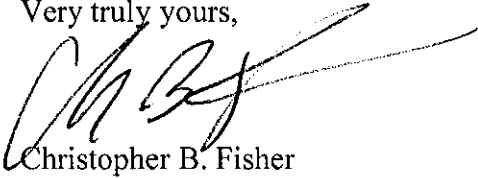
On behalf of New Cingular Wireless PCS, LLP ("AT&T") we are writing to request administrative approval of a revised site plan for the Facility as approved by the Siting Council in Petition 1106.

On October 16, 2014, the Council ruled that a rooftop tower Facility and associated equipment would not have a substantial adverse environmental effect. See ruling dated October 17, 2014 annexed hereto as Exhibit 1. The project at that time included the installation of an emergency backup generator within the basement of the existing building. AT&T is seeking to relocate the generator to an outdoor location between the commercial property's trash compactor and a loading dock. In further support of this request, enclosed as Exhibit 2, please find sixteen (16) sets of 11"x 17" construction drawings last revised April 2, 2015 setting forth the details of relocating the emergency backup generator outside. No other changes to the approved project are proposed.

We understand that the reason for the change in generator location is at the recommendation of the Town of Southington building department as part of AT&T's application for a building permit. The Town has published generator safety guidelines so as to avoid potential accumulation of carbon monoxide indoors. In consultation with the generator manufacturer, they too suggested that the generator be installed outdoors. As such, AT&T is proposing this minor change to relocate the emergency backup generator on the site, which is commercial.

We respectfully request on AT&T's behalf that the generator location change be approved by the Council or its staff administratively. Thank you in advance for your consideration of the enclosed.

Very truly yours,



Christopher B. Fisher

Enclosures

Cc: Garry Brumback, Southington Town Manager
Robert Phillips, Southington Town Planner
Jessica Rincon, AT&T
Adam Brillard, Smartlink



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
www.ct.gov/csc

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

October 17, 2014

Christopher B. Fisher, Esq.
Cuddy & Feder LLP
445 Hamilton Avenue, 14th floor
White Plains, NY 10601

RE: **PETITION NO. 1106** - New Cingular Wireless PCS, LLC petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required to install a rooftop telecommunications tower on an existing commercial building located at 168 Center Street, Southington, Connecticut.

Dear Attorney Fisher:

At a public meeting held on October 16, 2014, the Connecticut Siting Council (Council) considered and ruled that the above-referenced proposal would not have a substantial adverse environmental effect, and pursuant to Connecticut General Statutes § 16-50k, would not require a Certificate of Environmental Compatibility and Public Need with the following conditions:

- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by the Petitioner shall be removed within 60 days of the date the antenna ceased to function;
- If the facility ceases to provide wireless services for a period of one year the Petitioner shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council within 90 days from the one year period of cessation of service. The Petitioner may submit a written request to the Council for an extension of the 90 day period not later than 60 days prior to the expiration of the 90 day period; and
- This Declaratory Ruling may be transferred or partially transferred, provided both the facility owner/operator/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. The Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the facility within 30 days of the sale and/or transfer. Both the facility owner/operator/transferor and the transferee shall provide the Council with a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition dated June 2, 2014 and additional information dated October 7, 2014.

Enclosed for your information is a copy of the staff report on this project.

Very truly yours,



Robert Stein
Chairman

RS/CDM/lm

Enclosure: Staff Report

- c: The Honorable Michael Riccio, Chairman, Town of Southington
- Garry Brumback, Town Manager, Town of Southington
- Robert Phillips, Town Planner, Town of Southington

Petition No. 1106
AT&T
Southington, Connecticut
Staff Report

On June 3, 2014, the Connecticut Siting Council (Council) received a petition from New Cingular Wireless PCS, LLC (AT&T) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the installation of a rooftop wireless telecommunications tower on an existing building located at 168 Center Street in Southington, Connecticut. Council member Phil Ashton and staff member David Martin visited the site on July 1, 2014 to review the proposal. Christopher Fisher of Cuddy & Feder, Adam Braillard of SmartLink, Luke Calvin, Marc Chretien of Advanced Engineering Group, and Dan Goulet of C Squared Systems represented AT&T. The Southington town planner, Rob Phillips, represented the town at the field review.

The building at 168 Center Street is an old brick factory complex comprised of several different sections of varying heights and sizes. Much of the complex is occupied by commercial tenants. Currently Verizon has antennas installed on the roof near the front of one of the sections. The section of the old factory on which Verizon has its antennas did not have any tenants at the time of the Council's field review. AT&T proposes to install a 31-foot guyed tower on the roof of the same building, approximately 60 feet to the south of the Verizon installation. AT&T would install 12 antennas and 27 remote radio heads in a three-sector configuration on the tower at a centerline height of 69 feet above ground level. AT&T's ground equipment would be located in an equipment room to be created in the building's basement. The room would also contain a natural gas-fueled generator for backup power. The generator would be vented to the outside of the building.

AT&T's representatives explained that AT&T needed the additional height afforded by the tower so that its antennas would be able to "shoot above" Verizon's antennas, thereby avoiding interference problems. AT&T's plans indicate that the antennas of both companies will be oriented toward the same azimuths. During the field review, Council member Ashton explored the feasibilities of different alternatives to the guyed tower that would be less visible. Part of the impetus for his exploration was the concern expressed by the town planner about the visual impact on nearby residences. AT&T's representatives have responded by saying they will be looking at different alternatives (*See Report Update on next page*).

The factory complex at 168 Center Street is at the western edge of Southington's central business district, which has been experiencing a steady revitalization during the past several years. Most of the nearest buildings to the east are commercial, although a new townhouse development is slated to be built near the factory. The area to the west is predominantly residential although there are businesses and old factory buildings on the nearest streets. A north-south rail trail passes right next to the building.

The tower's guy wires would be tied into the walls of the factory building. Instead of a P.E.'s structural analysis of the building, the Council received an affidavit that states the tower and the attachments to the building will be designed in compliance with the relevant codes. This is not, in the staff's opinion, the same as a stamped structural analysis (*See Report Update on next page*).

C Squared's RF engineers calculated that the combined power density of Verizon's existing antennas and AT&T's proposed antennas would be approximately 44.66% of the FCC's maximum permissible exposure at six feet above ground level (as an average height of a person). This calculation includes a 10 dB off-beam pattern loss adjustment.

The visibility of the proposed tower would be limited to the immediate vicinity due to its relatively low height and the presence of mature trees in the surrounding area.

Report Update: In response to concerns raised by Council representatives during the field review, AT&T re-examined its proposed installation to see if it could lower the height of the proposed tower or find different ways to mount its antennas to make its installation less visible. After exploring several alternatives, AT&T's RF consultants concluded that lowering the height of AT&T's antennas could cause interference problems with Verizon's antennas on the same roof. The interference problems could be mitigated, but not eliminated, by changing the azimuths of AT&T's antennas. However, lowering the height of the antennas and changing their azimuths would markedly reduce the area that could be covered from this site. Other alternatives were eliminated by landlord restrictions and structural limitations of the building. In its supplemental materials, AT&T did include an engineer's structural analysis of the proposed rooftop tower. This analysis concluded that the existing building framing is structurally capable of supporting the proposed tower installation with modifications. The Council representatives who attended the field review are satisfied that AT&T's supplemental filing represents a good faith effort to explore alternatives and agree with AT&T's conclusion that the installation as proposed is the best feasible solution for providing needed coverage from this site.

View of 168 Center Street; Verizon antennas on building



Note: View is looking southward; rail trail is along right side of building

Photosimulation of AT&T antennas on building at 168 Center Street

Simulation



Looking eastward toward 168 Center Street



Note: This vantage point makes the street utility pole appear to be approximately the same height and bulk as the proposed tower on top of the building, except that it would be located in line with the third window to the right.

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 CODES.

- BUILDING CODE:**
 CONNECTICUT STATE BUILDING CODE 2003
 BOCA NATIONAL BUILDING CODE 1999
 THE INTERNATIONAL BUILDING CODE, IBC, 2012
- ELECTRICAL CODE:**
 CONNECTICUT STATE FIRE SAFETY CODE 2005
 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70-9958
 FPA 1 FIRE CODE 2012
 NATIONAL ELECTRICAL CODE (NEC) 2005
 NFPA 70 NATIONAL ELECTRICAL CODE 2011
 NFPA 101 LIFE SAFETY CODE 2012

OTHERS:
 AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL STEEL OF STEEL CONSTRUCTION, ASD NINTH EDITION
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA
 TOWER AND ANTENNA SUPPORTING STRUCTURES:
 TIA 807, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
 INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) #1, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999)
 RECOMMENDED PRACTICES 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")

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.



UNDERGROUND SERVICE ALERT



CALL TOLL FREE
 1-888-344-7233 OR 811
 72 HOURS BEFORE YOU DIG



550 COCHITUATE ROAD, SUITES 13 & 14,
 FRAMINGHAM, MA 01701-4681



1997 ANNAPOLIS EXCHANGE PARKWAY, SUITE 200
 ANNAPOLIS, MD 21401
 TEL: (410) 263-5455 FAX: (410) 263-5470



500 NORTH BROADWAY PH: (401) 354-2403
 EAST PROVIDENCE, RI 02914 FAX: (401) 633-6354

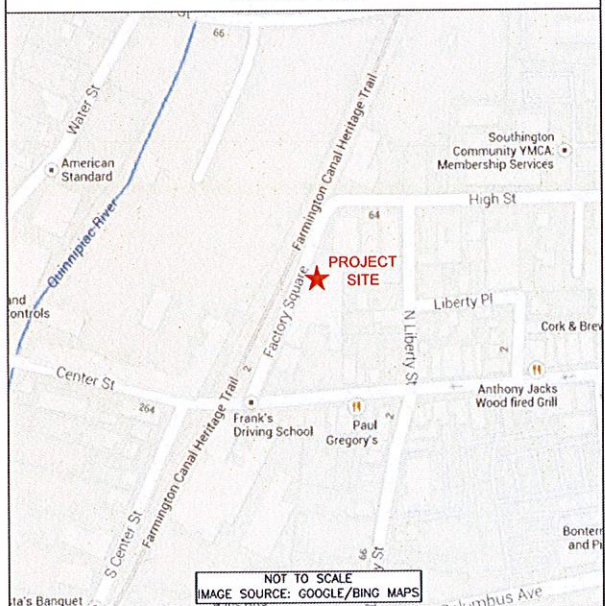


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

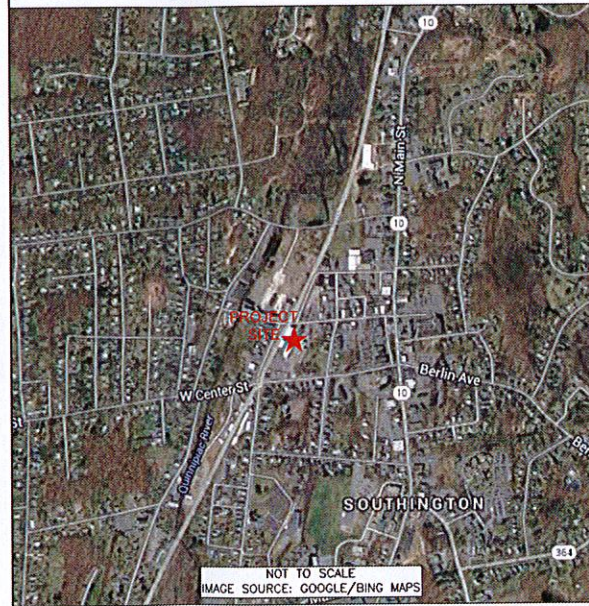
PROJECT TEAM

- CLIENT REPRESENTATIVE:** TODD OLIVER
 SMARTLINK, LLC
 33 BOSTON POST ROAD WEST, SUITE 210
 MARLBOROUGH, MA 01752
 (774) 369-3613
 todd.oliver@smartlinkllc.com
- SITE ACQUISITION:** DAVID ARCHAMBAULT
 SMARTLINK, LLC
 33 BOSTON POST ROAD WEST, SUITE 210
 MARLBOROUGH, MA 01752
 (401) 207-1088
 david.arch@smartlinkllc.com
- ZONING:** ADAM BRALLARD
 SMARTLINK, LLC
 33 BOSTON POST ROAD WEST, SUITE 210
 MARLBOROUGH, MA 01752
 (774) 369-3613
 adam.brallard@smartlinkllc.com
- ENGINEER:** MARC R. CHRETIEN, P.E.
 ADVANCED ENGINEERING GROUP, P.C.
 500 NORTH BROADWAY
 EAST PROVIDENCE, RI 02914
 (401) 354-2403
 mchretien@aegep.net
- RF ENGINEER:** CAMERON SYME
 AT&T MOBILITY - NEW ENGLAND
 550 COCHITUATE ROAD, SUITE 13 AND 14
 FRAMINGHAM, MA 01701
 (508) 596-7146
 cs6970@att.com
- CONSTRUCTION MANAGER:** NEIL COON
 SMARTLINK, LLC
 33 BOSTON POST ROAD WEST, SUITE 210
 MARLBOROUGH, MA 01752
 (203) 410-8871
 Neil.coon@smartlinkllc.com

VICINITY MAP



GENERAL LOCATION MAP



GENERAL CONTRACTOR NOTES

CONTRACTOR: SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITET/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME
 DO NOT SCALE DRAWINGS

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. 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, PORTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

PROJECT DESCRIPTION

THIS PROJECT WILL BE COMPRISED OF NEW AT&T ANTENNAS, (4) ANTENNAS PER SECTOR WITH (3) SECTORS, FOR A TOTAL OF (12) ANTENNAS; NEW AT&T REMOTE RADIO UNITS (RRU'S), (9) RRU'S PER SECTOR WITH (3) SECTORS, FOR A TOTAL OF (27) RRU'S ON A PROPOSED GUYED TOWER MOUNTED TO ROOFTOP; NEW INDOOR TELECOMMUNICATION EQUIPMENT INSIDE A PROPOSED AT&T EQUIPMENT ROOM. NEW NATURAL GAS GENERATOR TO BE INSTALLED IN REAR OF BUILDING FOR BACKUP POWER.

SHEET INDEX

SHEET NUMBER	DESCRIPTION	REVISION
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GN-1	GENERAL NOTES	2
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A-2	ELEVATION	2
A-3	EQUIPMENT ROOM PLAN	2
A-4	EQUIPMENT ROOM SECTION & NOTES	2
A-5	ANTENNA PLAN, DETAILS & RF SCHEDULE/B.O.M.	2
A-6	EQUIPMENT DETAILS	2
A-7	DETAILS	2
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E-1	ELECTRICAL & TELCO RISER, ONE-LINE DIAGRAM, AND NOTES	2
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M-1	MECHANICAL PLAN	2

SITE INFORMATION

- APPLICANT/LESSEE:** 550 COCHITUATE ROAD, SUITE 13 & 14,
 FRAMINGHAM, MA 01701-4681
- PROPERTY OWNER:** FACTORY SQUARE REALTY LLC
 ONE FACTORY SQUARE, SUITE 4
 SOUTHINGTON, CT 06489
- SITE ADDRESS:** 168 CENTER STREET
 SOUTHINGTON, CT 06489
- LATITUDE:** 41° 36' 04.46"
LONGITUDE: -72° 52' 56.20"
LAT./LONG. TYPE: NAD 83
- STRUCTURE HEIGHT:** 73' ABOVE GROUND LEVEL (AGL)
GROUND ELEVATION: 149' (AMSL)
ANTENNA CENTERLINE HEIGHT: 69' ABOVE GROUND LEVEL (AGL)
ZONING DISTRICT: INDUSTRIAL I-1
PROPOSED USE: UNMANNED TELECOMMUNICATIONS FACILITY

DRIVING DIRECTIONS

DIRECTIONS FROM 500 ENTERPRISE DR, ROCKY HILL, CT 06067:

- HEAD NORTHEAST ON ENTERPRISE DR TOWARD CAPITAL BLVD 0.3 MI
 - TURN LEFT ONTO CAPITAL BLVD 0.2 MI
 - TURN LEFT ONTO WEST ST 0.3 MI
 - TURN LEFT TO MERGE ONTO I-91 S 9.1 MI
 - TAKE EXIT 18 FOR I-691 W TOWARD MERIDEN/WATERBURY 0.2 MI
 - EXIT 18 TURNS SLIGHTLY RIGHT AND BECOMES I-691 W 4.4 MI
 - TAKE EXIT 4 FOR CT-322 TOWARD SOUTHINGTON 0.2 MI
 - TURN RIGHT ONTO CT-322 W 0.3 MI
 - TURN RIGHT ONTO CT-120 N 3.1 MI
 - TURN RIGHT ONTO CT-10 N 0.4 MI
 - TURN LEFT ONTO CENTER ST
 - TURN LEFT ONTO CENTER ST
- DESTINATION WILL BE ON THE LEFT 0.2 MI

CONSTRUCTION DRAWINGS

SITE NUMBER: CT2583S-A
FA NUMBER: 11571102
 168 CENTER STREET
 SOUTHINGTON, CT 06489
 HARTFORD COUNTY

DRAWN BY: DD
CHECKED BY: MRC

TITLE SHEET

SHEET NUMBER	REVISION #
T-1	2

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #2 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE 1/2" OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID TINNED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR - TOWER RESOURCE MANAGEMENT
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER - AT&T MOBILITY
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. WIDE-FLANGE STEEL SHALL CONFORM TO ASTM A992; HHS STEEL SHAPES SHALL CONFORM TO ASTM A500, GRADE B; STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B; ALL OTHER STEEL SHAPES SHALL CONFORM TO ASTM A36 (OR GREATER). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH UMS SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
20. APPLICABLE BUILDING CODES:
 SUBCONTRACTOR'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: CONNECTICUT STATE BUILDING CODE WHICH USES INTERNATIONAL BUILDING CODE (IBC) 2005 CT SUPPLEMENT WITH 2009 AMENDMENT AS BASE STANDARDS FOR THE STATE CODES FOR NON-RESIDENTIAL STRUCTURES
 ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS
 LIGHTNING CODE: REFER TO ELECTRICAL DRAWINGS

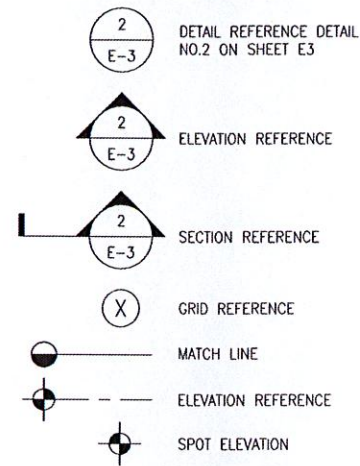
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

 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-C, STRUCTURAL STANDARDS FOR STEEL
 ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

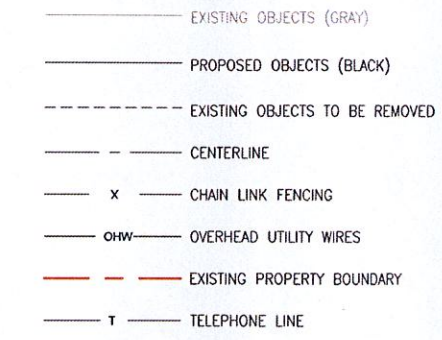
 FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL NOTES

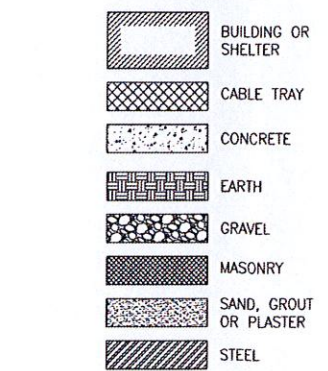
ANNOTATION



LINETYPES



HATCH



ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	(F)	FUTURE	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BCW	BARE COPPER WIRE	MGB	MASTER GROUND BUS	RRH	REMOTE RADIO HEAD
BTS	BASE TRANSCEIVER STATION	MIN	MINIMUM	TBD	TO BE DETERMINED
(E)	EXISTING	(P)	PROPOSED/NEW	TBR	TO BE REMOVED
EG	EQUIPMENT GROUND	N.T.S.	NOT TO SCALE	TBRR	TO BE REMOVED AND REPLACED
EGR	EQUIPMENT GROUND RING	REF	REFERENCE	TYP	TYPICAL



550 COCHITUATE ROAD, SUITES 13 & 14, FRAMMINGHAM, MA 01701-4681



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500 NORTH BROADWAY EAST PROVIDENCE, RI 02914 PH: (401) 354-2403 FAX: (401) 633-6354



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2	04/02/15	REVISED DRAWING	MER
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0	02/17/15	ISSUED FOR REVIEW	DD

PROJECT INFORMATION

SITE NUMBER: CT2583S-A
FA NUMBER: 11571102
 168 CENTER STREET
 SOUTHTONINGTON, CT 06489
 HARTFORD COUNTY

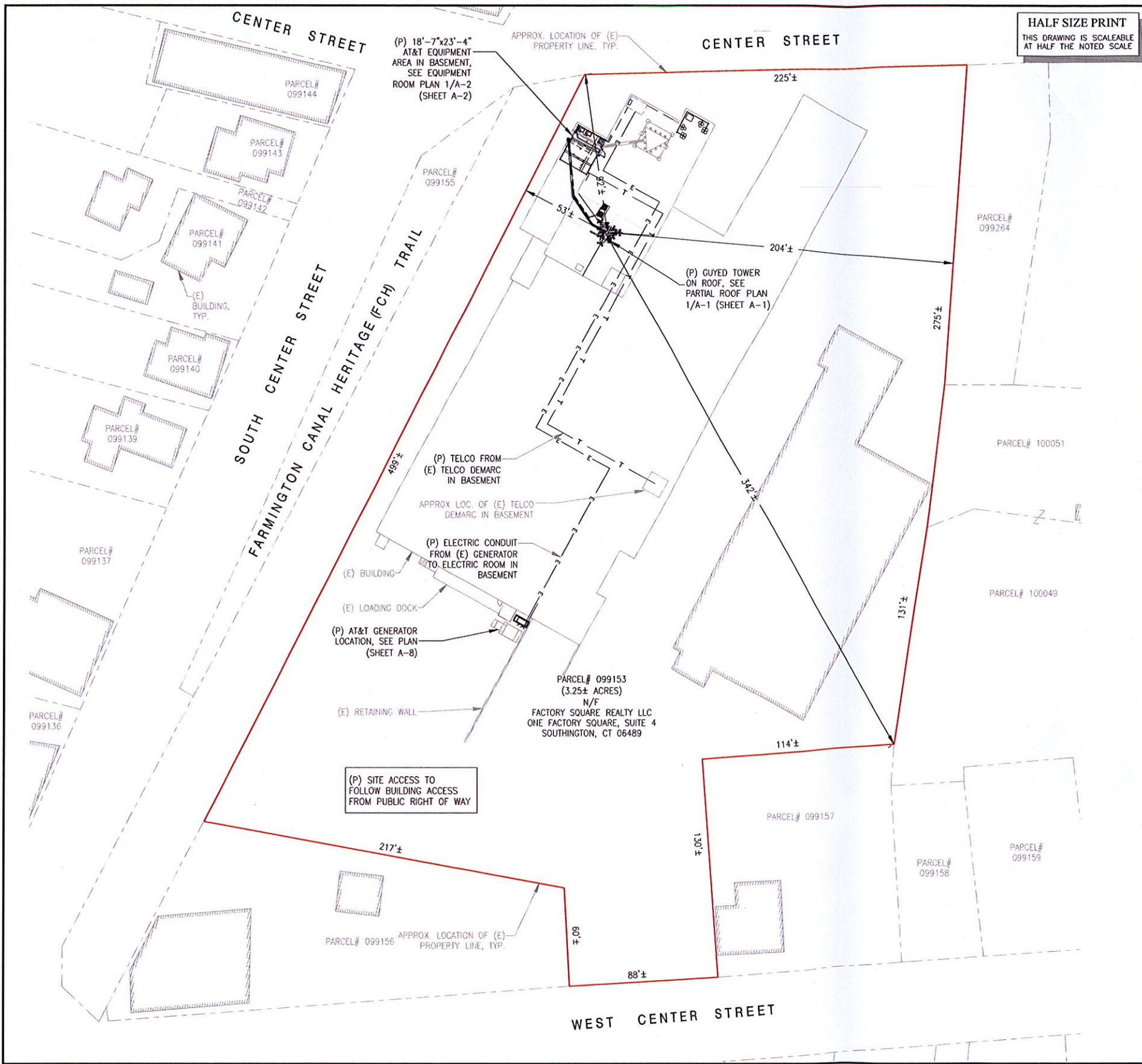
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DD	MRC

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GENERAL NOTES

SHEET NUMBER	REVISION #
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GN-1 **2**



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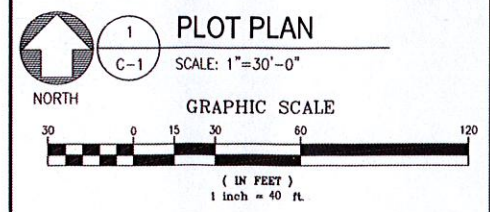
GENERAL NOTES:

1. FIELD SURVEY DATE: N/A
2. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88)
3. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
4. SITE CONTROL POINT: CENTER OF PROPOSED GUYED TOWER
LATITUDE: N 41° 36' 04.46"
LONGITUDE: W -72° 52' 56.20"
5. PROPERTY OWNER: FACTORY SQUARE REALTY LLC
ONE FACTORY SQUARE, SUITE 4
SOUTHINGTON, CT 06489
6. SITE NUMBER: CT25835A
7. SITE ADDRESS: 168 CENTER STREET
SOUTHINGTON, CT 06489
HARTFORD COUNTY
8. APPLICANT: AT&T MOBILITY, LLC
550 COCHITUATE ROAD,
SUITE 13 & 14,
FRAMINGHAM, MA 01701-4681
9. TAX ID: 0099153
10. DEED REFERENCE: BK 985/ PG 640
11. PLAN REFERENCES: TOWN OF SOUTHINGTON
12. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY:
DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233
CALL BEFORE YOU DIG (CT): 1-800-922-4455
13. PROPERTY LINE INFORMATION IS COMPILED FROM SOUTHINGTON'S ONLINE GIS SYSTEM, AND IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD BOUNDARY SURVEY, AND IS SUBJECT TO CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE. A FULL BOUNDARY SURVEY WAS NOT PERFORMED.
14. THE SITE IS LOCATED IN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP FOR HARTFORD COUNTY, CONNECTICUT (ALL JURISDICTIONS) - SOUTHINGTON, TOWN OF - COMMUNITY PANEL NUMBER: 090037 0582 F MAP (MAP-090030581F) EFFECTIVE DATE: SEPTEMBER 26, 2008.
15. BEARING SYSTEM OF THIS PLAN IS BASED ON TRUE NORTH. TRUE NORTH WAS ESTABLISHED FROM EXISTING PLAN REFERENCE. IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF TRUE NORTH.

LEGEND

	PROPERTY LINE
	ABUTTING PROPERTY LINE
	EXIST. CONTOUR
	EXIST. CHAIN LINK FENCE
	PROP. CHAIN LINK FENCE
	EXIST. TREE LINE
	EXIST. STREET LAYOUT
	EXIST. EASEMENT
	EXIST. OVERHEAD UTILITIES
	PROP. OVERHEAD UTILITIES
	EXIST. UNDERGROUND UTILITIES
	PROP. UNDERGROUND UTILITIES
	EXIST. UTILITY POLE #XXX

- NOTES:
1. 1. PLAN CONTENT HAS BEEN DERIVED FROM SOUTHINGTON'S ONLINE GIS SYSTEM, AND A LIMITED SITE INSPECTION.
 2. 2. SETBACK DIMENSIONS SHOWN ARE FROM PROPOSED TOWER TO NEAREST PROPERTY LINE.
 3. 3. BASED ON A REVIEW OF THE TOWN OF SOUTHINGTON GIS INFORMATION AND CT DEP INFORMATION, THE CLOSEST KNOWN WETLAND IS GREATER THAN 600' FROM THE PROPOSED SITE.



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EAST PROVIDENCE, RI 02914
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FA NUMBER: 11571102
168 CENTER STREET
SOUTHINGTON, CT 06489
HARTFORD COUNTY

DRAWN BY:	CHECKED BY:
DD	MRC

SHEET TITLE

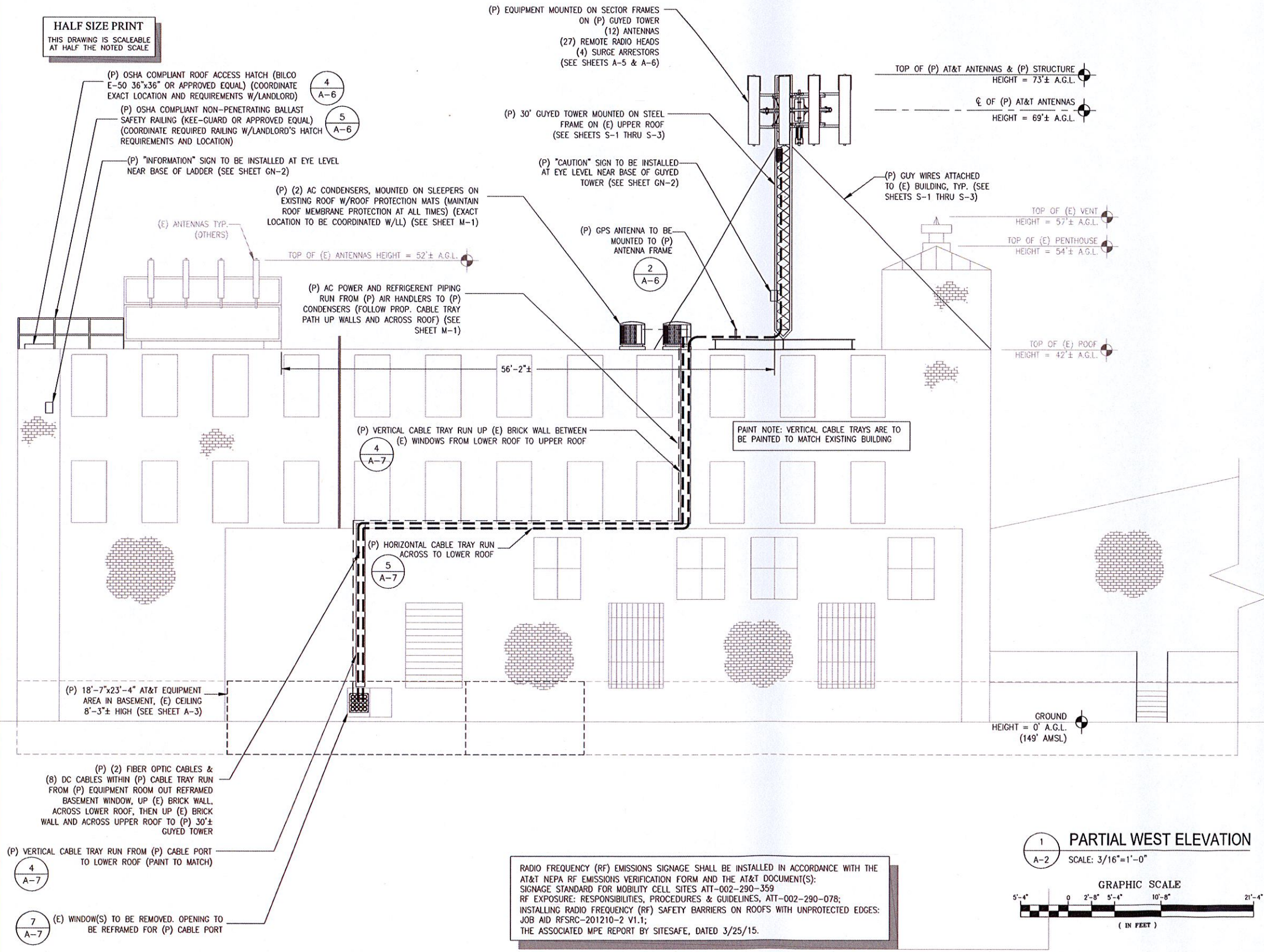
PLOT/SITE PLAN

SHEET NUMBER	REVISION #
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C-1

2

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RADIO FREQUENCY (RF) EMISSIONS SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE AT&T NEPA RF EMISSIONS VERIFICATION FORM AND THE AT&T DOCUMENT(S): SIGNAGE STANDARD FOR MOBILITY CELL SITES ATT-002-290-359; RF EXPOSURE: RESPONSIBILITIES, PROCEDURES & GUIDELINES, ATT-002-290-078; INSTALLING RADIO FREQUENCY (RF) SAFETY BARRIERS ON ROOFS WITH UNPROTECTED EDGES: JOB AID RFSRC-201210-2 V1.1; THE ASSOCIATED MPE REPORT BY SITESAFE, DATED 3/25/15.

1 PARTIAL WEST ELEVATION
A-2 SCALE: 3/16"=1'-0"
GRAPHIC SCALE
5'-4" 0 2'-8" 5'-4" 10'-8" 21'-4"
(IN FEET)



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SHEET TITLE	
ELEVATION	
SHEET NUMBER	REVISION #

A-2

2



550 COCHITUATE ROAD, SUITES 13 & 14,
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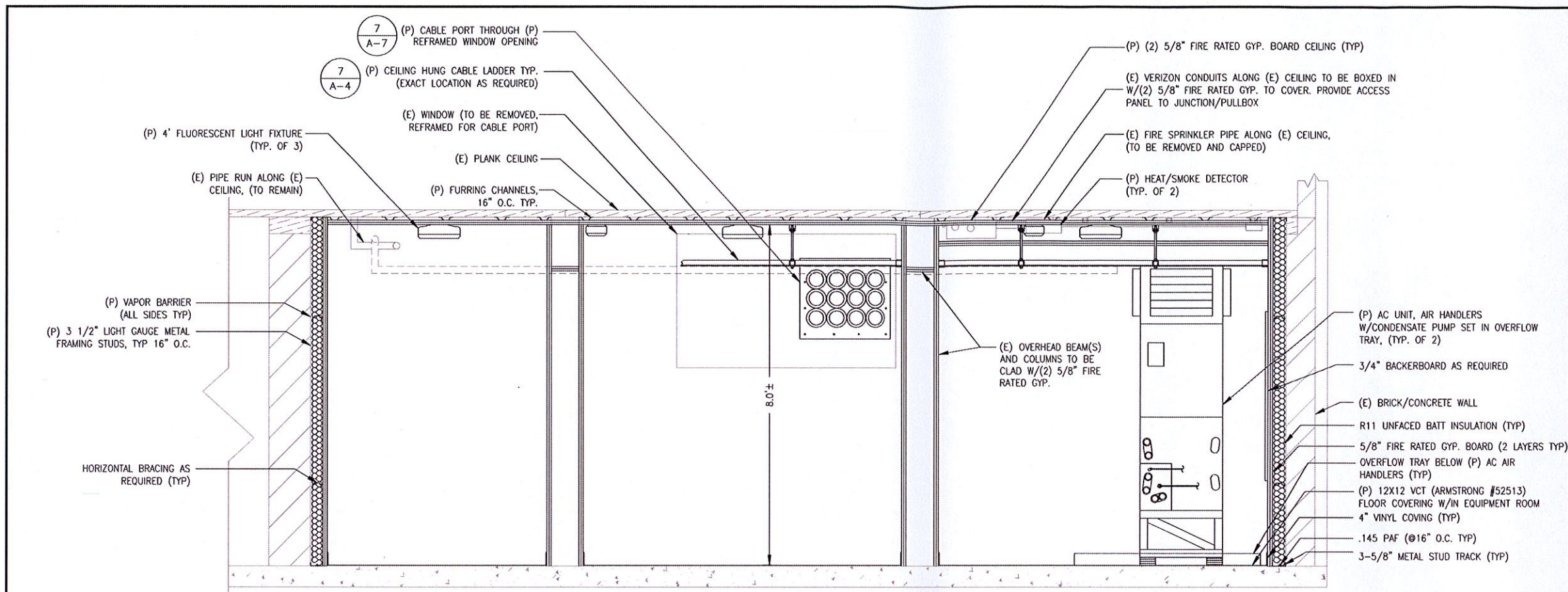
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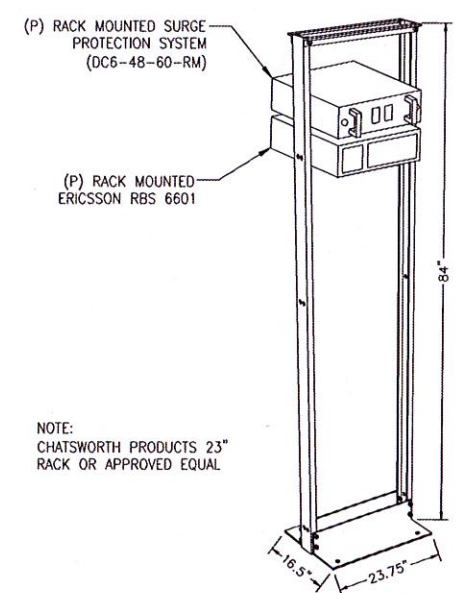
EQUIPMENT ROOM SECTION
& NOTES

SHEET NUMBER REVISION #

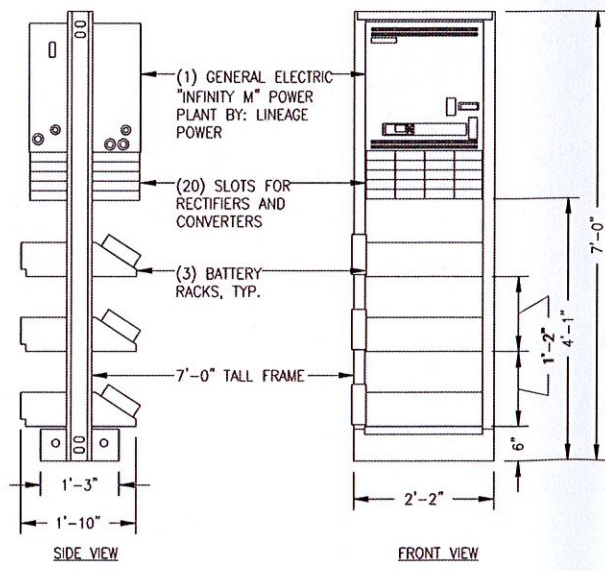
A-4 2



1 EQUIPMENT ROOM SECTION
SCALE: 1/2" = 1'-0"



2 EQUIPMENT RACK DETAIL
SCALE: N.T.S.

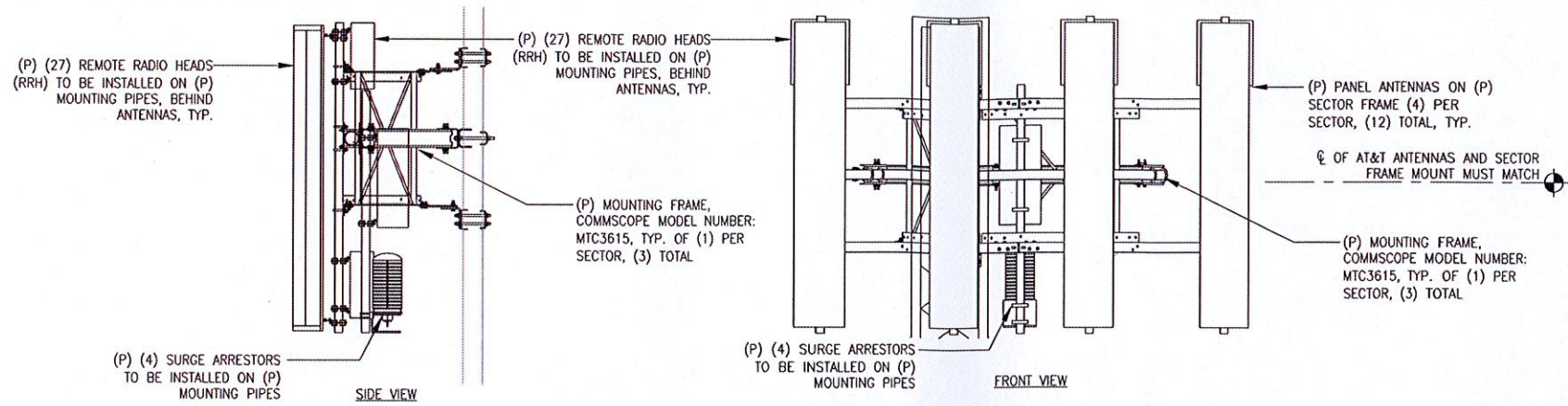


3 POWER PLANT DETAIL
SCALE: N.T.S.

FINISH SCHEDULE	
INTERIOR	
INSULATION	R-11 UNFACED FIBERGLASS BATT INSULATION
WALLS MATERIAL	2 LAYER 5/8" FIRE CODE GYP
FINISH	APPLY JOINT TAPE AND JOINT COMPOUND AT JOINTS, SEAMS, PEN.
PAINT	ONE COAT LATEX PRIMER PLUS ONE COAT LATEX EGGSHELL FINISH
FLOOR EXPOSED	VCT FLOORING, 12"x12"x3/32" (COLOR: ARMSTRONG 51836 WHITE)

DOOR HARDWARE SCHEDULE		
QTY	U/M	DESCRIPTION
1	EA	CUSTOM DOOR/FRAME, 3'-0"x6'3"-0" (V.I.F.) 16GA INSULATED STEEL
1	EA	DOOR/FRAME, 3'-0"x7'-0" 16GA INSULATED STEEL
1	BX	HINGES, SS 4 1/2", CHROME/BRASS
1	EA	CLOSER, HYDRAULIC, NON-HOLD (NORTON 9305BC)
1	EA	LOCKSET W/ SIMPLEX LEVER HANDLE (KEY 1021B)
1	EA	ALUMINIUM THRESHOLD, 3'-0"
1	EA	LOCKGUARD, 10", PICKPLATE
1	EA	DOOR ALARM, REED SWITH (367959-1)
1	EA	BUMPER, RUBBER STOP
2	EA	WEATHER STRIPPING KIT, FOR 3'-0"x7'-0" DOOR

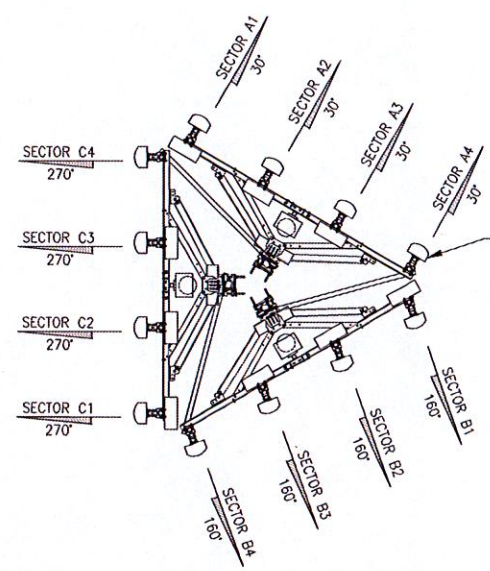
LIGHTING SCHEDULE		
SYMBOL	QTY	DESCRIPTION
☐	4	LITHONIA MODEL #SB 2 32 120 GED
☐	1	PRESCOLITE NOVUS NV SERIES



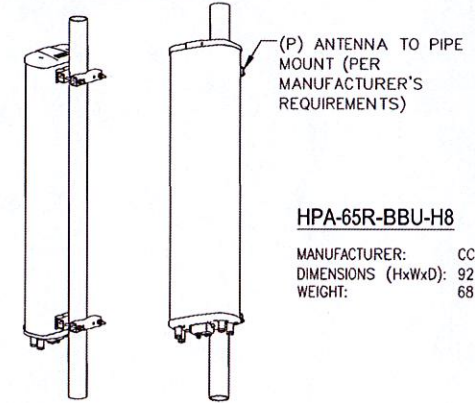
1 ENLARGED ANTENNA ELEVATION
A-5 SCALE: 1/2"=1'-0"

RADIO FREQUENCY (RF) EMISSIONS SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE AT&T S3438 RF EMISSIONS VERIFICATIONS FORM, DATED 5/30/14, AND THE AT&T DOCUMENT ENTITLED 'SIGNAGE STANDARD FOR MOBILITY CELL SITES, ATT-002-290-359'. SIGNAGE SHOULD BE IN-PLACE BEFORE SITE GOES ON-AIR.

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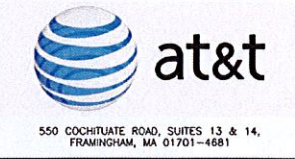
2 PROPOSED ANTENNA PLAN
A-5 SCALE: 1/4"=1'-0"



3 PROPOSED ANTENNA DETAIL
A-5 SCALE: N.T.S.

RF SYSTEM SCHEDULE & B.O.M.																		
RRH INFORMATION			ANTENNA INFORMATION									ELECTRICAL DOWNTILT						
MAKE	MODEL	QTY	SECTOR	POSITION	MAKE	MODEL	FEED	AZIMUTH	RAD CTR (AGL)	FIBER/POWER LENGTH	FEEDERS	MECHANICAL DOWNTILT	PORT 1	PORT 2	PORT 3	PORT 4	PORT 5	PORT 6
ERICSSON	RRUS-11	3	ALPHA	IA	CCI	HPA-65R-BBU-H8	BOTTOM	30°	69±	170±	FIBER/DC POWER	0°	0°					
ERICSSON	RRUS-12	2		IIA	CCI	HPA-65R-BBU-H8	BOTTOM	30°	69±	170±	FIBER/DC POWER	0°	0°					
ERICSSON	A-2	2		IIIA	CCI	HPA-65R-BBU-H8	BOTTOM	30°	69±	170±	FIBER/DC POWER	0°	0°					
ERICSSON	E-2	1		IV A	CCI	HPA-65R-BBU-H8	BOTTOM	30°	69±	170±	FIBER/DC POWER	0°	0°					
ERICSSON	RRUS-32	1	BETA	IB	CCI	HPA-65R-BBU-H8	BOTTOM	160°	69±	170±	FIBER/DC POWER	0°	0°					
ERICSSON	RRUS-11	3		II B	CCI	HPA-65R-BBU-H8	BOTTOM	160°	69±	170±	FIBER/DC POWER	0°	0°					
ERICSSON	RRUS-12	2		IIIB	CCI	HPA-65R-BBU-H8	BOTTOM	160°	69±	170±	FIBER/DC POWER	0°	0°					
ERICSSON	A-2	2		IV B	CCI	HPA-65R-BBU-H8	BOTTOM	160°	69±	170±	FIBER/DC POWER	0°	0°					
ERICSSON	E-2	1	GAMMA	IC	CCI	HPA-65R-BBU-H8	BOTTOM	270°	69±	170±	FIBER/DC POWER	0°	0°					
ERICSSON	RRUS-32	1		II C	CCI	HPA-65R-BBU-H8	BOTTOM	270°	69±	170±	FIBER/DC POWER	0°	0°					
ERICSSON	RRUS-11	3		IIIC	CCI	HPA-65R-BBU-H8	BOTTOM	270°	69±	170±	FIBER/DC POWER	0°	0°					
ERICSSON	RRUS-12	2		IV C	CCI	HPA-65R-BBU-H8	BOTTOM	270°	69±	170±	FIBER/DC POWER	0°	0°					
ERICSSON	A-2	2																
ERICSSON	E-2	1																
ERICSSON	RRUS-32	1																

* CONTRACTOR TO VERIFY FINAL RFDS AND CABLE LENGTHS PRIOR TO CONSTRUCTION



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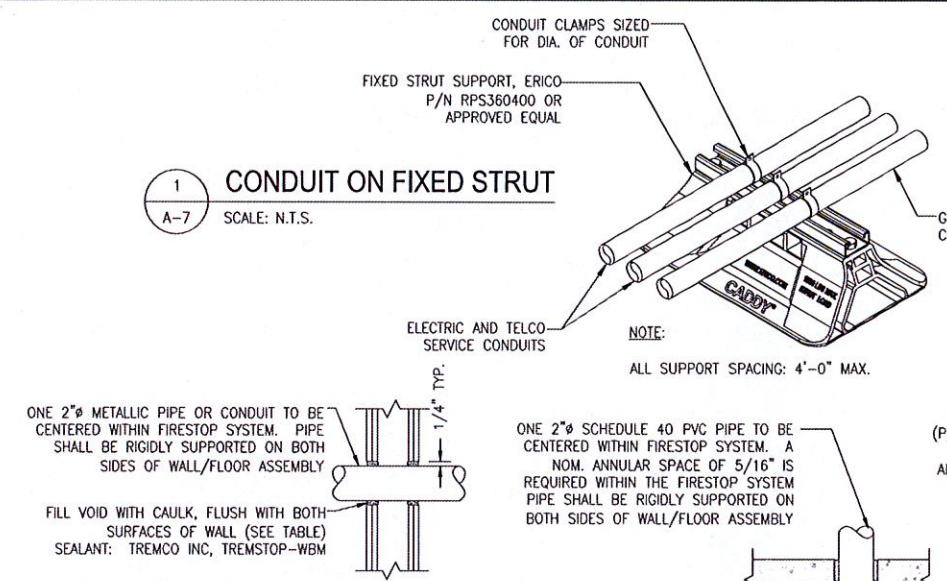
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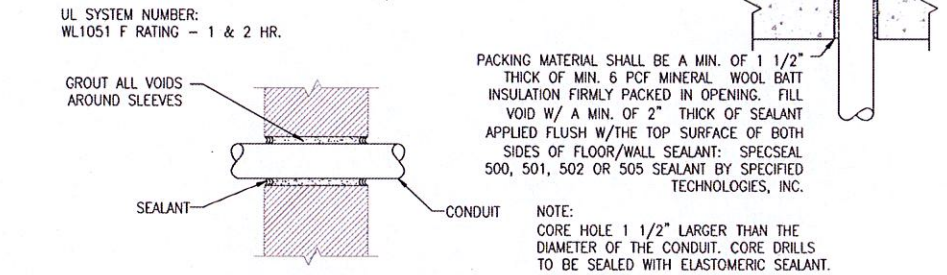
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SHEET TITLE	
ANTENNA PLAN, DETAILS, & RF SCHEDULE	
SHEET NUMBER	REVISION #

A-5 2

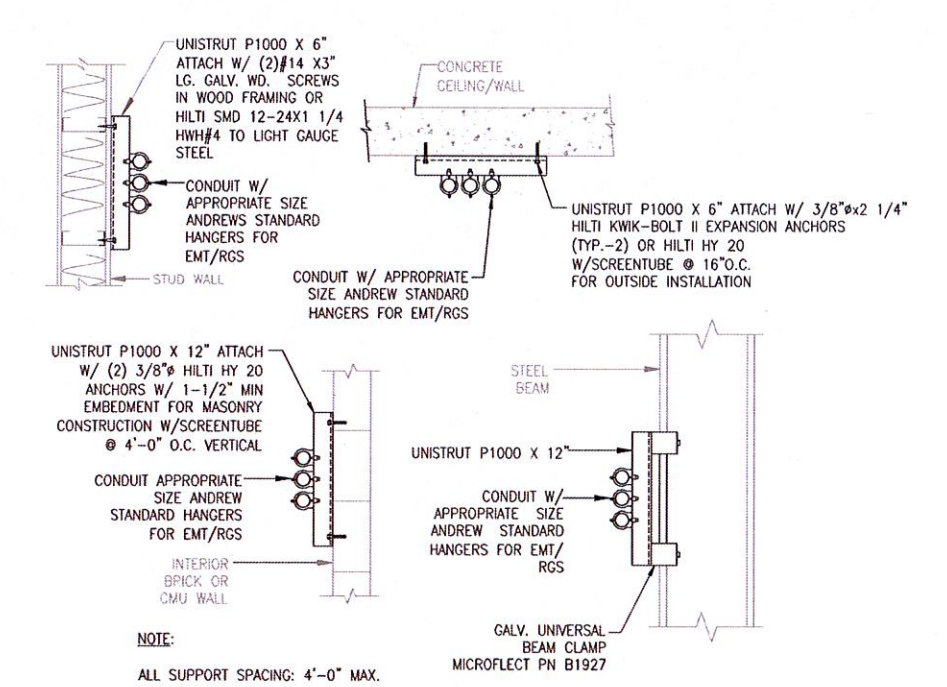
1 CONDUIT ON FIXED STRUT
A-7 SCALE: N.T.S.



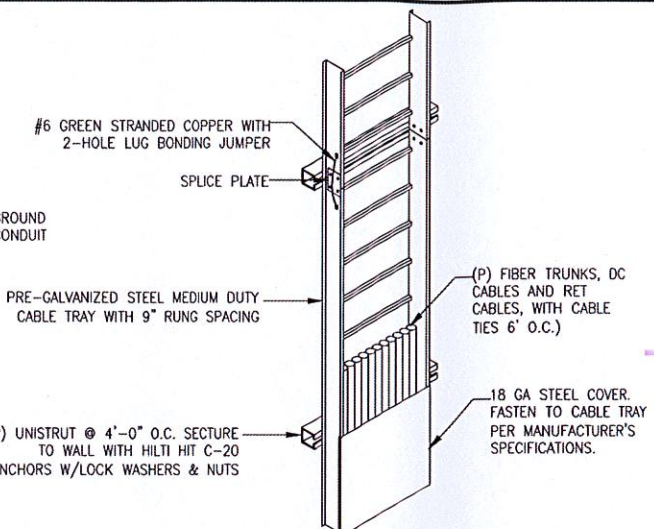
2 TYPICAL PENETRATION DETAILS
A-7 SCALE: N.T.S.



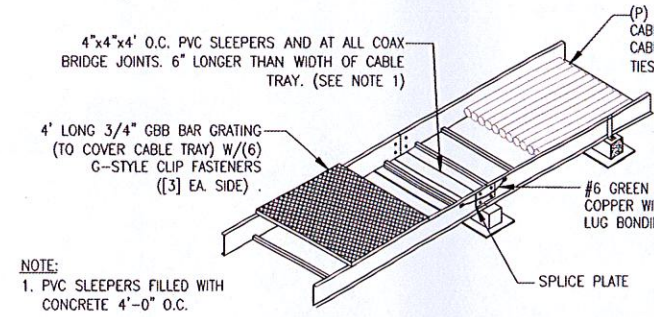
3 TYPICAL CONDUIT MOUNTING DETAIL
A-7 SCALE: N.T.S.



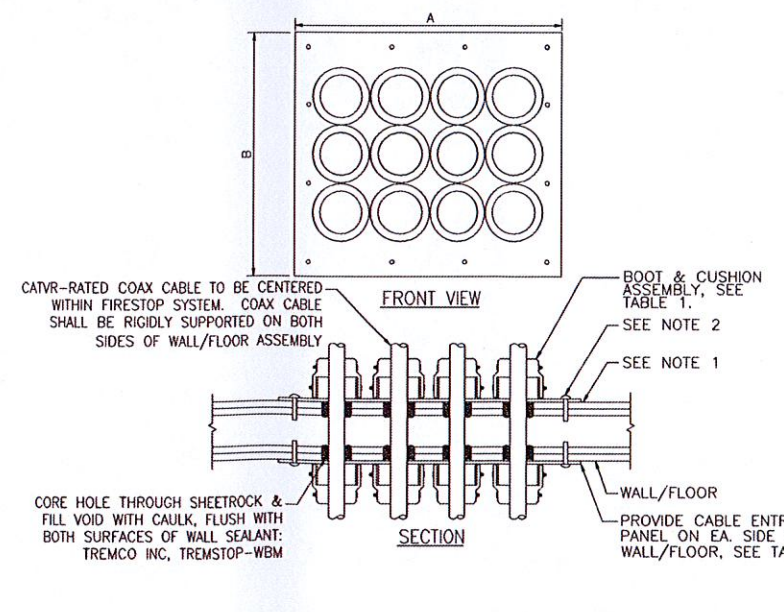
4 VERTICAL CABLE TRAY DETAIL
A-7 SCALE: N.T.S.



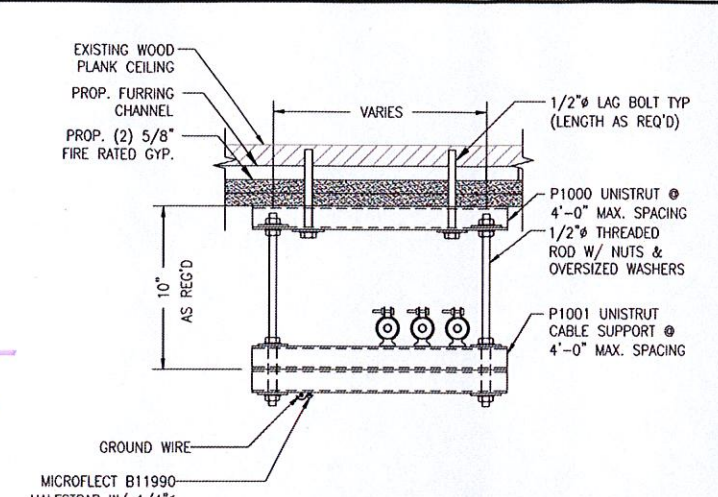
5 HORIZONTAL CABLE TRAY DETAIL
A-7 SCALE: N.T.S.



7 COAXIAL CABLE ENTRY PORT DETAIL
A-7 SCALE: N.T.S.



6 TRAPEZE CABLE LADDER
A-7 SCALE: N.T.S.



8 COLUMN FLASHING DETAIL TYP.
A-7 SCALE: N.T.S.

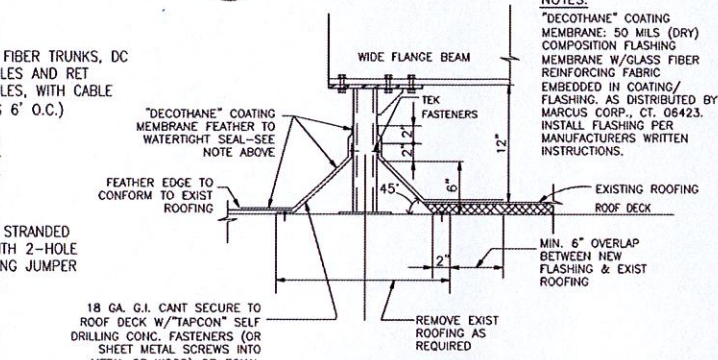


TABLE 1
VALMONT ROOT & CUSHION ASSEMBLY

CABLE SIZE	VALMONT ROOT & CUSHION ASSEMBLY
1/2"	BA12FLX
7/8"	BA78
1 1/4"	BA114
1 5/8"	BA158

TABLE 2
VALMONT CABLE ENTRY PANEL

No. CABLES	VALMONT CABLE ENTRY PANEL	A	B
1	E220	7"	7"
4	E575	25 1/2"	9 1/2"
6	E1449	23"	17 1/2"
8	E576	25 1/2"	17 1/2"
12	E1118	25 1/2"	25 1/2"
18	E1333	39 1/2"	25 1/2"

- NOTES:
1. FASTEN CABLE ENTRY TO CEILING W/ STAINLESS STEEL SCREWS W/ LEAD SHIELD INSERTS INTO BRICK, MASONRY, CONC. USE TOGGLE BOLTS INTO STUD WALLS.
2. DRILL HOLES 1/2" LARGER IN DIAMETER THAN CABLES THROUGH CEILING TO MATCH HOLES IN THE CABLE ENTRY.
3. DETAIL BASED ON THE USE OF VALMONT AND HILTI. CONTRACTOR MAY SUBSTITUTE APPROVED EQUAL.



ADVANCED ENGINEERING GROUP, P.C.
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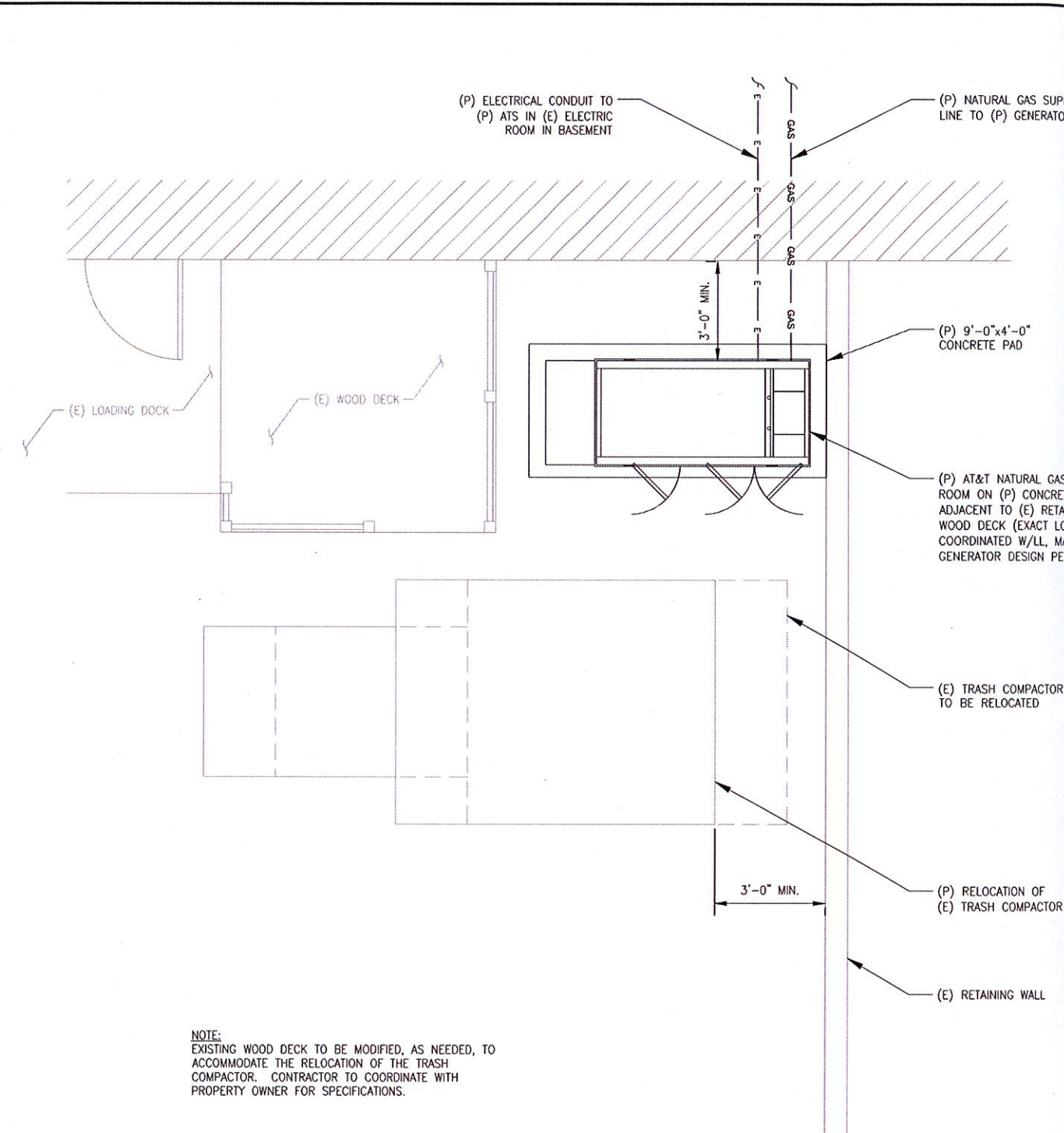
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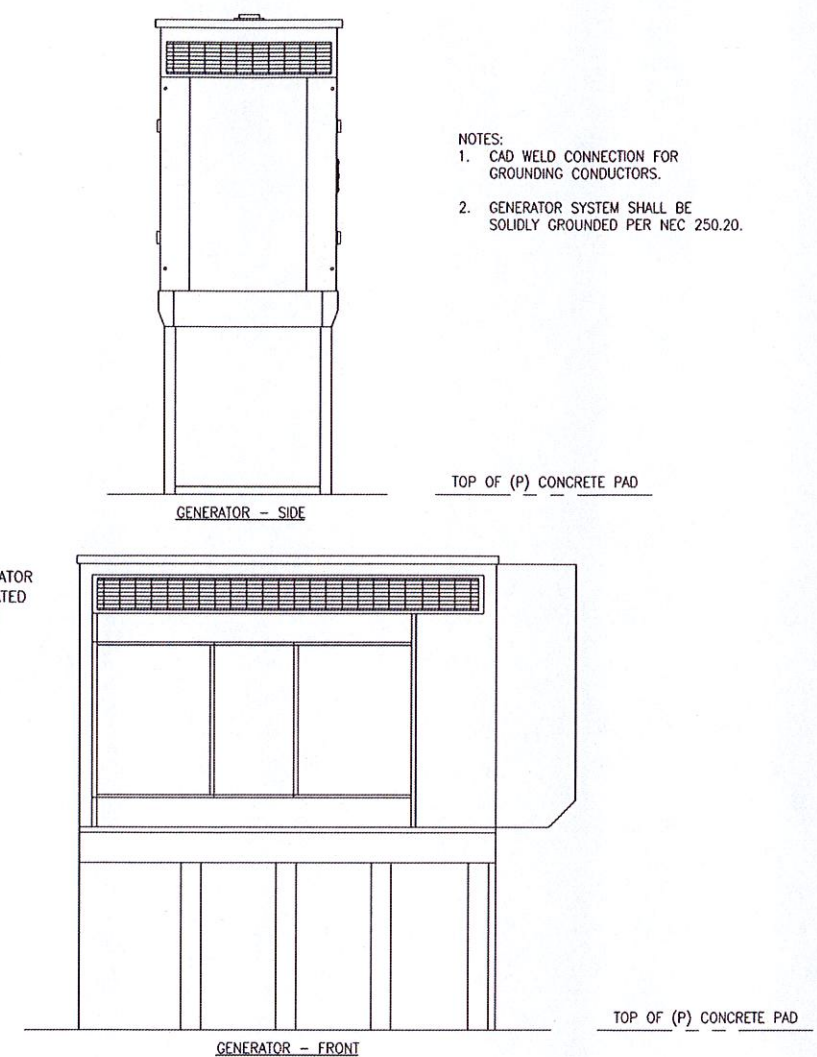
SHEET TITLE: DETAILS

SHEET NUMBER: A-7
REVISION #: 2



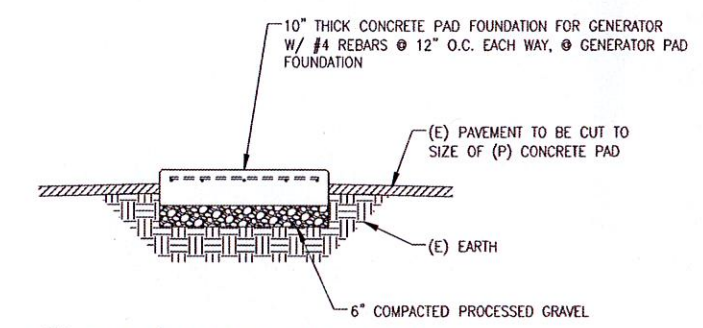
NOTE:
EXISTING WOOD DECK TO BE MODIFIED, AS NEEDED, TO ACCOMMODATE THE RELOCATION OF THE TRASH COMPACTOR. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER FOR SPECIFICATIONS.

1 GENERATOR AREA PLAN
A-8 SCALE: 1/2" = 1'-0"



- NOTES:
1. CAD WELD CONNECTION FOR GROUNDING CONDUCTORS.
 2. GENERATOR SYSTEM SHALL BE SOLIDLY GROUNDED PER NEC 250.20.

2 GENERATOR DETAIL
A-8 SCALE: N.T.S.



3 GENERATOR PAD DETAIL
A-8 SCALE: N.T.S.



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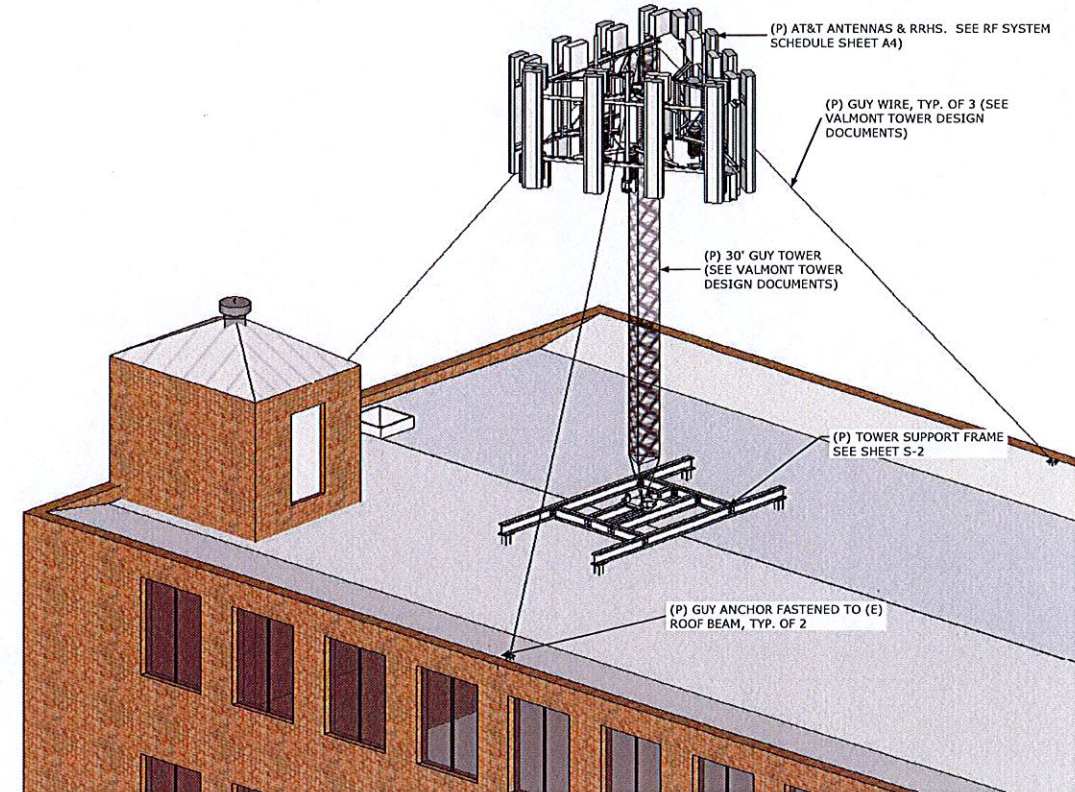
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1	03/06/15	REVISED DRAWING	MER
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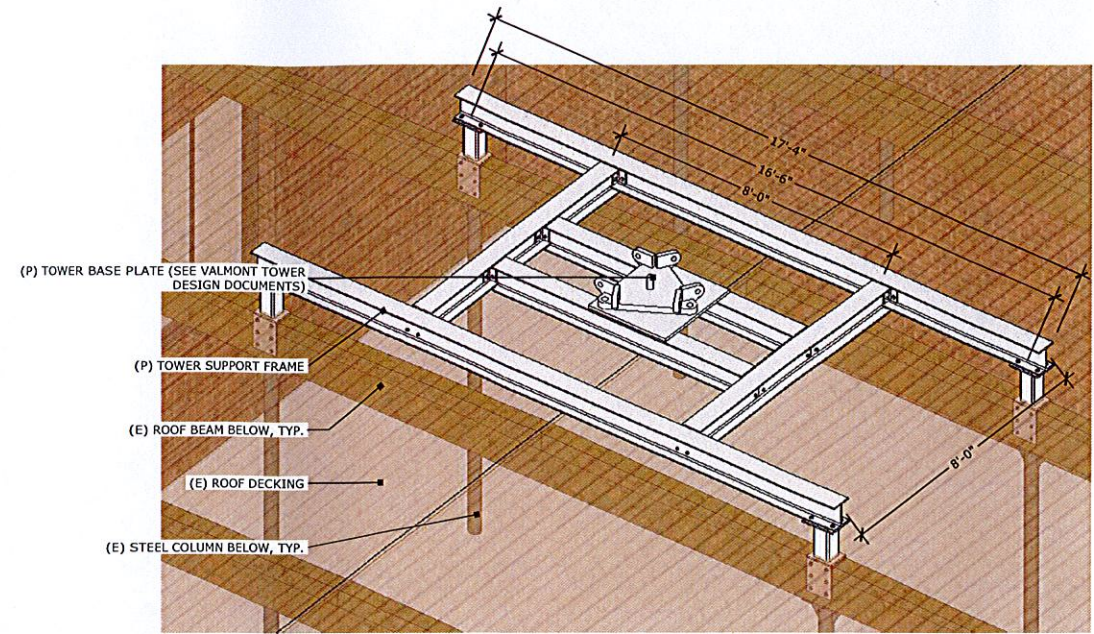
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GENERATOR DETAILS

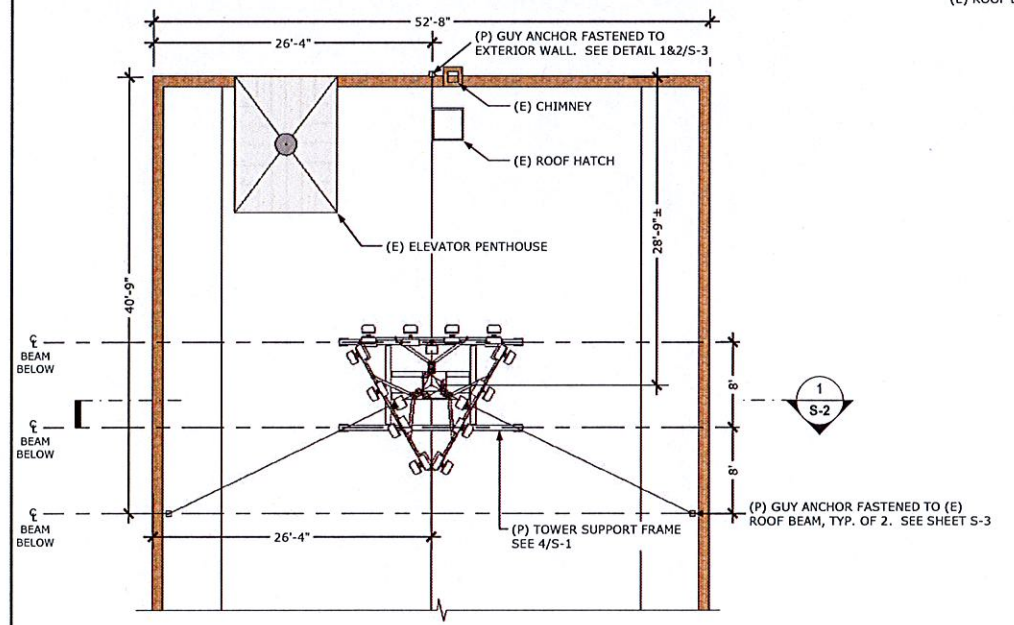
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A-8	2



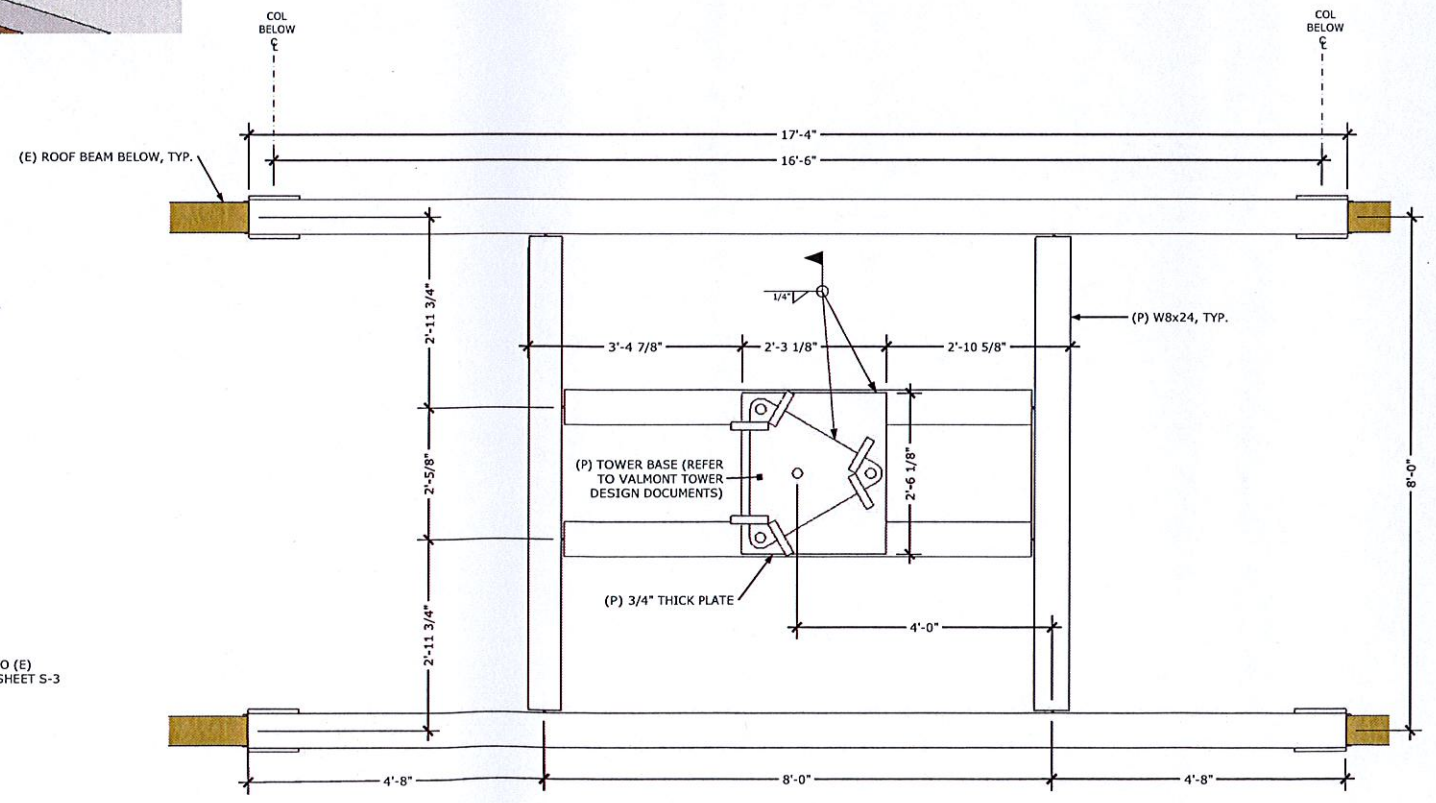
1 EXTERIOR ISOMETRIC
S-1 Scale: NTS



2 TOWER PLATFORM ISOMETRIC
S-1 Scale: NTS



3 PARTIAL ROOF PLAN
S-1 Scale: 1/8"=1'-0"



4 TOWER SUPPORT FRAMING PLAN
S-1 Scale: 3/4"=1'-0"



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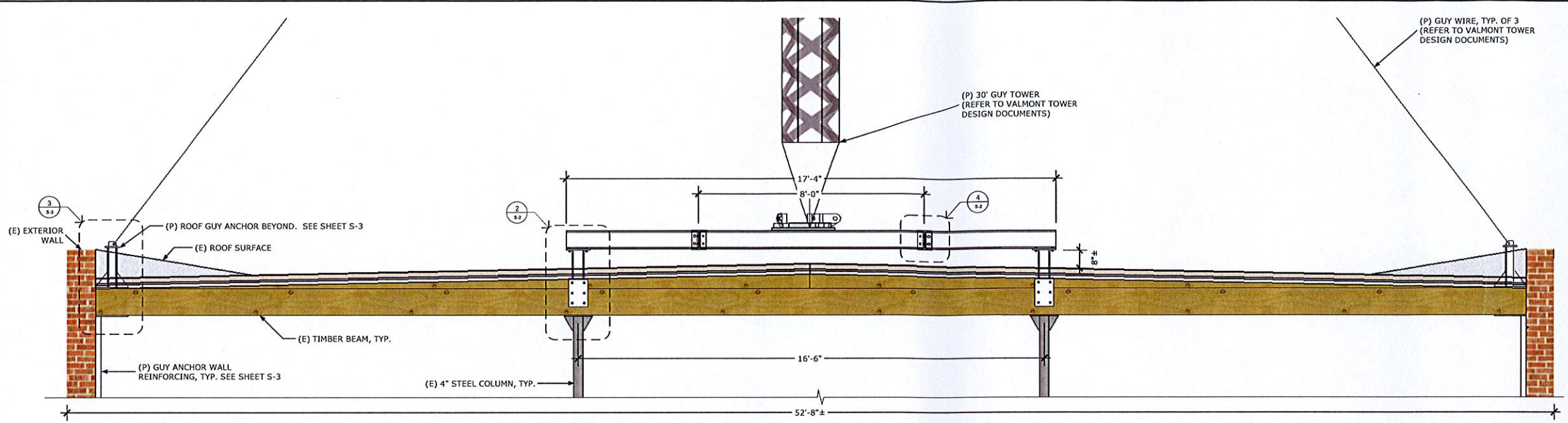
SHEET TITLE

STRUCTURAL PLANS & DETAILS

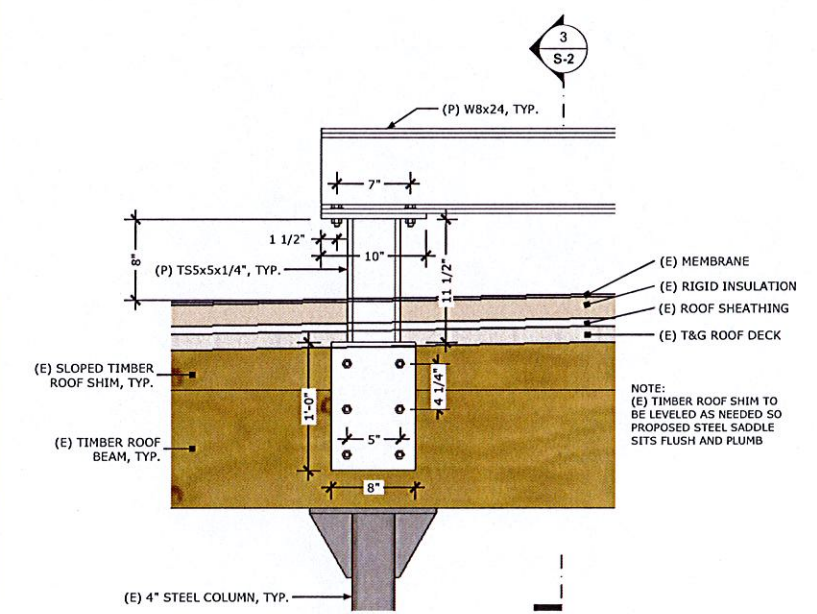
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S-1

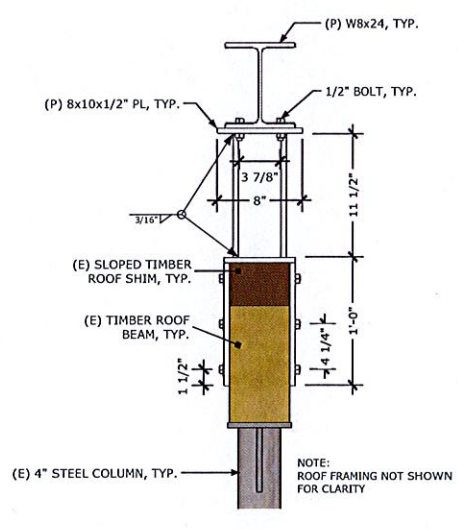
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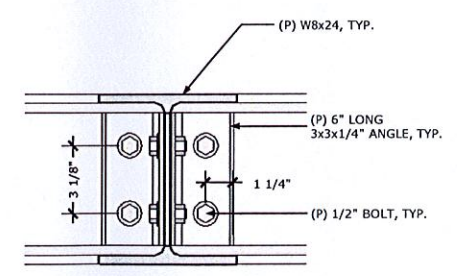
1 SECTION
S-2 Scale: 1/2"=1'-0"



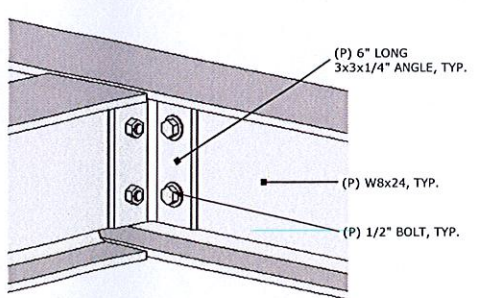
2 DETAIL
S-2 Scale: 1-1/2"=1'-0"



3 DETAIL
S-2 Scale: 1-1/2"=1'-0"



4 FRAMING DETAIL
S-2 Scale: 1-1/2"=1'-0"



5 FRAMING DETAIL
S-2 Scale: NTS

STRUCTURAL

- All structural steel work shall conform to the requirements of the American Institute of Steel Construction (AISC) and all applicable building codes.
- Structural steel shapes to be ASTM A36 steel.
- All bolts shall be ASTM Grade A325, hot-dip galvanized per ASTM D153. All bolts shall be 1/2" diameter unless otherwise noted.
- All bolts shall have galvanized lock washer or pal nut
- Tighten bolts using the "turn of the nut" method as specified by AISC.
- Hot-dip galvanize angles per ASTM D123 after fabrication.
- Apply a minimum of two coats of cold galvanizing to any field cut or drilled surfaces.
- Structural connection bolts shall be high strength bolts (bearing type) and conform to ASTM A325 "High Strength Bolts for Structural Joints, Including suitable nuts and plain hardened washers".
- all bolts anchors and miscellaneous hardware shall be galvanize in accordance with ASTM A153 "Zinc-Coating (Hot-Dip) on Iron and Steel Hardware", unless otherwise noted.
- Steel pipe shall conform to ASTM A500 "cold-formed welded & seamless carbon steel structural tubing", grade A, or ASTM A53 pipe steel black and hot-dipped zinc-coated welded and seamless type E or S, grade B. Pipe sizes indicated are nominal. Actual outside diameter is larger.
- Expansion bolts shall conform to federal specification FF-S-325, group II, type 4, class 1, Hilti kwik bolt II or approved equal. Installation shall be in accordance with the manufacturer's recommendations. minimum embedment shall be three and one half (3 1/2) inches.
- Epoxy anchor assembly shall consist of 1/2" diameter stainless steel anchor rod with nuts & washers, an internally threaded insert, a screen tube and an epoxy adhesive. The anchoring system shall be the Hilti-HIT HY-70 and or HY-150 systems (as specified in dwg.) or engineers approved equal with 4-1/4" min. embedment depth.
- Field welds, drill holes, saw cuts and all damaged galvanized surfaces shall be repaired with an organic zinc repair paint complying with requirements of ASTM A780. Galvanizing repair paint shall have 86 percent zinc by weight, zipr by duncan galvanizing, galva bright premium by crown or equal. thickness of applied galvanizing repair paint shall be not less than 4 coats (allow time to dry between coats) with a resulting coating thickness required by ASTM A123 or A153 as applicable.

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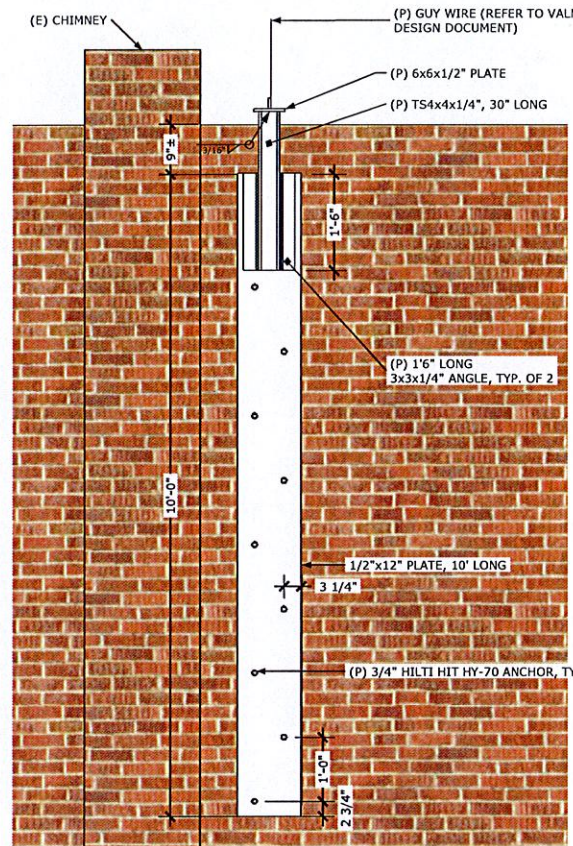
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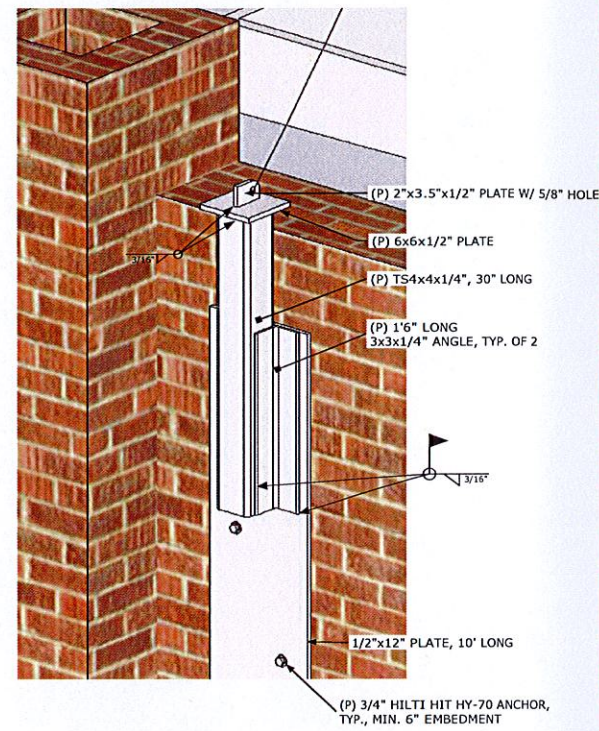
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SECTION, DETAILS, AND NOTES	
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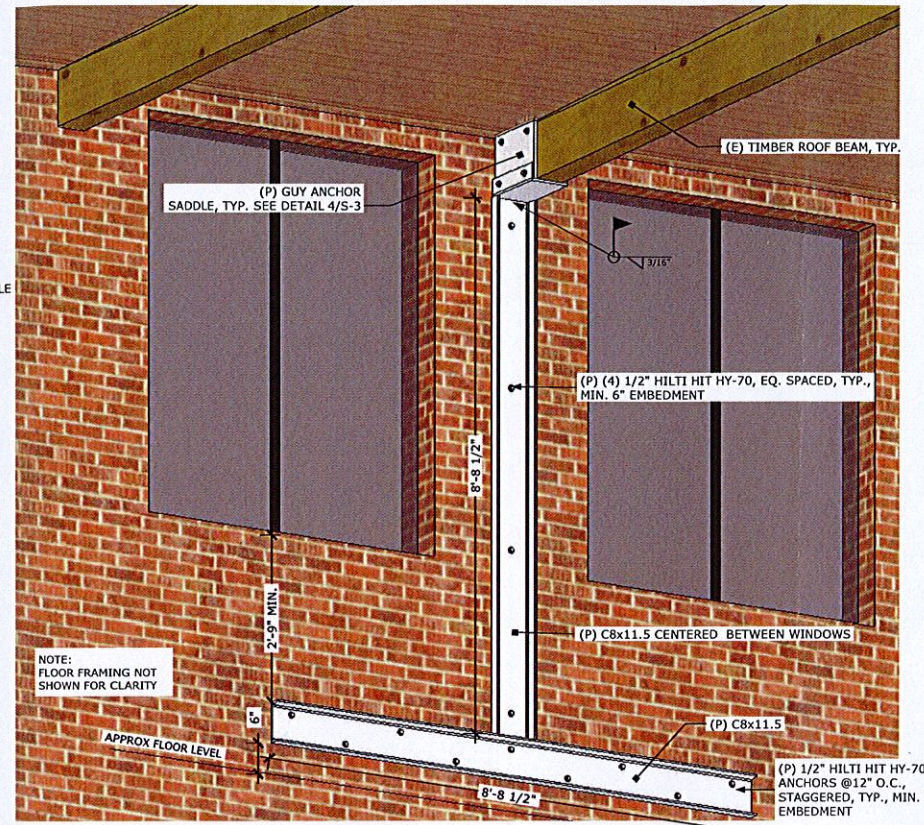
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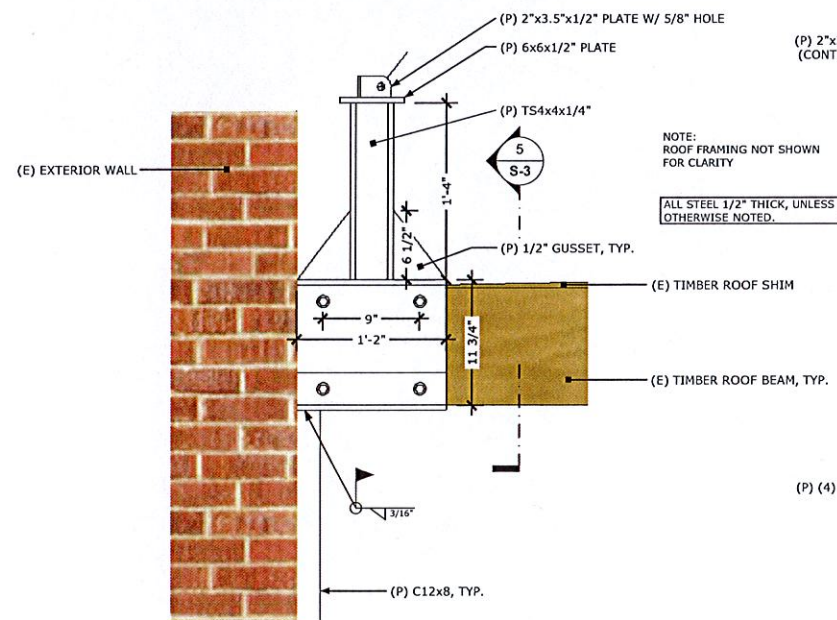
1
S-3
EXTERIOR GUY ANCHOR
(SOUTH WALL)
Scale: 3/4"=1'-0"



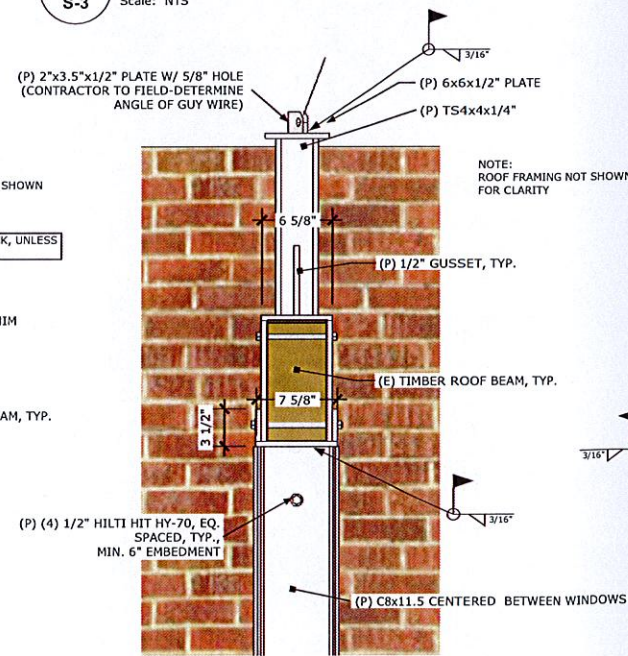
2
S-3
EXTERIOR GUY ANCHOR ISOMETRIC
(SOUTH WALL)
Scale: NTS



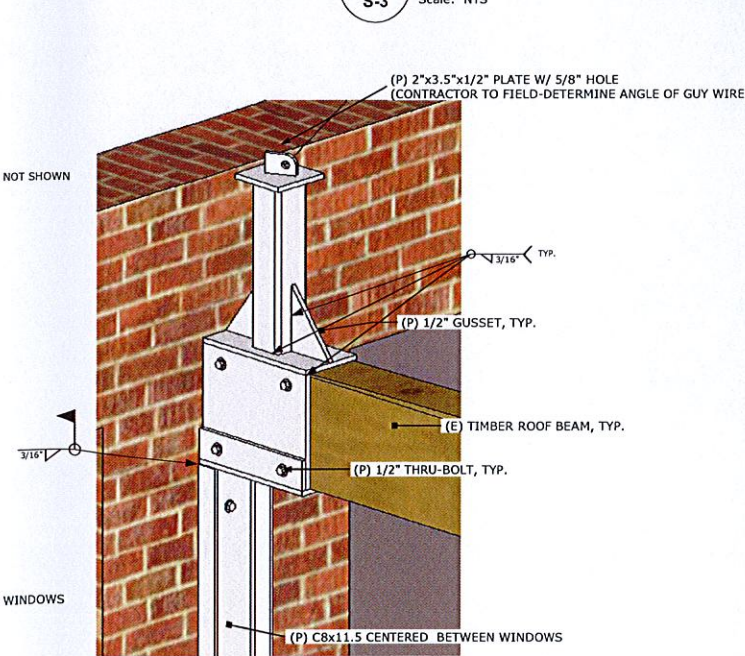
3
S-3
INTERIOR GUY ANCHOR REINFORCEMENT
(EAST & WEST WALL)
Scale: NTS



4
S-3
INTERIOR GUY ANCHOR
Scale: 1-1/2\"/>



5
S-3
INTERIOR GUY ANCHOR
Scale: 1-1/2\"/>



6
S-3
INTERIOR GUY ANCHOR
ISOMETRIC DETAIL
Scale: NTS

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SHEET TITLE
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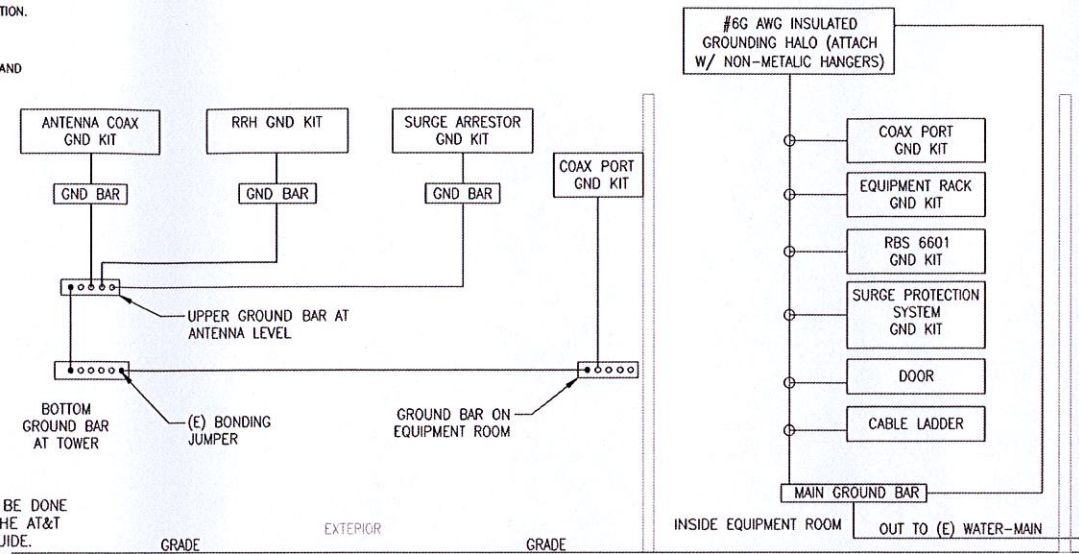
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S-3	0

GENERAL ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES, O.S.H.A., NEC 2008, NFPA 70, AT&T MOBILITY SPECIFICATIONS, AND THE SPECIFICATIONS DETAILED IN THESE PLANS.
2. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
3. CONTRACTOR SHALL PERFORM ALL VERIFICATION, OBSERVATION, TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT, AND DISCREPANCIES.
4. THESE PLANS ARE DIAGRAMMATIC ONLY. FOLLOW AS CLOSELY AS POSSIBLE. CONTRACTOR SHALL ENSURE THAT ACCESS TO EQUIPMENT IS MAINTAINED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND ALL APPLICABLE CODES.
5. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J--BOX, SWITCH BOX, ETC. IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
6. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM, ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL 'J' WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES' NAMING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, IEEE, AND NFPA.
8. ALL CONDUIT INSTALLED MAY BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
9. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE. UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
10. ALL "CONDUIT ONLY" (CO.) INSTALLATIONS SHALL HAVE A 3/8" PULL WIRE OR ROPE.
11. CONTRACTOR SHALL PROVIDE AT&T MOBILITY MANAGER WITH ONE SET OF COMPLETE ELECTRICAL 'AS INSTALLED' DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROISINGS, AND CIRCUITS.
12. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
13. POWER WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID.
14. ALL CONDUCTORS LARGER THAN 110 AWG SHALL BE STRANDED COPPER WITH THWN 600V INSULATION. UNLESS NOTED OTHERWISE.
15. ALL MATING SURFACES OF GROUND CONNECTIONS SHALL BE CLEANED SMOOTH AND COATED WITH ANTI-OXIDANT PRIOR TO ATTACHMENT.
16. ALL GROUND CONNECTIONS BELOW GRADE MUST BE EXOTHERMICALLY WELDED (CAD WELD OR APPROVED EQUAL).
17. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE 2 AND SOLID TINNED BARE COPPER WIRE UNLESS NOTED OTHERWISE.
18. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C. COORDINATE SHORT CIRCUIT REQUIREMENTS WITH LOCAL UTILITY COMPANY.
19. CONTRACTOR SHALL PATCH, REPAIR, AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
20. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, M PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
21. LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND, THEREFORE, MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
22. PENETRATIONS IN FIRE RATED WALLS SHALL BE SEALED IN ACCORDANCE WITH ALL APPLICABLE CODES.
23. ALL MATERIALS SHALL BE U.L. LISTED
24. CONDUIT:
 - a. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - b. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL FITTINGS SHALL BE GLAND RING COMPRESSION TYPE EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - c. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE 'JAKE' OR 'SQUEEZE' TYPE, SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT SHALL HAVE FULL SIZE GROUND WIRE
 - d. CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILINGS OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ENGINEER PRIOR TO INSTALLING.
25. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
26. CONTRACTOR SHALL COORDINATE THE ELECTRICAL SERVICE ATTN AT&T MOBILITY AND LOCAL UTILITY.
27. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY NEC AND ALL APPLICABLE CODES.
28. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. CONTRACTOR SHALL SUBMIT TO THE PROJECT MANAGER ALL TEST REPORTS AND ONE COMPLETE SET OF PRINTS SHOWING 'INSTALLED WORK'.
29. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
30. ALL EXPOSED GROUND WIRES ROUTED ALONG THE SIDE OF EQUIPMENT SHELTERS OR ROUTED OVER CONCRETE FOUNDATIONS OR OTHER EXISTING STRUCTURES SHALL BE INSTALLED IN PROPERLY ANCHORED 3/4" (MIN.) PVC CONDUIT.
31. CONTRACTOR SHALL NOT DISTURB EXISTING GROUNDING SYSTEM. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL COST.
32. ALL ELEMENTS OF ICE BRIDGE AND AT&T MOBILITY UTILITY BACKBOARD MUST BE BONDED AND JUMPERED TO GROUNDED COMPONENTS OF THESE SYSTEMS.
33. ALL INTERIOR CABLES AND WIRING SHALL BE NEATLY ROUTED IN OVERHEAD LADDER RACK AND FASTENED TO LADDER RACK.
34. ALL GROUNDING CONDUCTORS SHALL BE ROUTED DOWNWARDS FROM POINT OF ORIGIN TO TERMINATION POINT (GROUND BAR, GROUND RING, ETC).
35. GROUNDING CONDUCTORS SHALL NOT REVERSE DIRECTION (EXCEPT HALO & BURIED GROUND RINGS). OTHER EXCEPTIONS NEED TO BE APPROVED BY AT&T MOBILITY CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
36. GROUNDING CONDUCTORS SHALL HAVE A MINIMUM BENDING RADIUS OF 8".
37. ALL CONNECTIONS TO GROUND PLATES SHALL BE CAD WELDED TO THE CENTER OF THE PLATE. ALL DETAILS SHOWING CONNECTIONS TO GROUND RODS ARE ALSO VALID FOR SIMILAR CONNECTIONS TO GROUND PLATES.

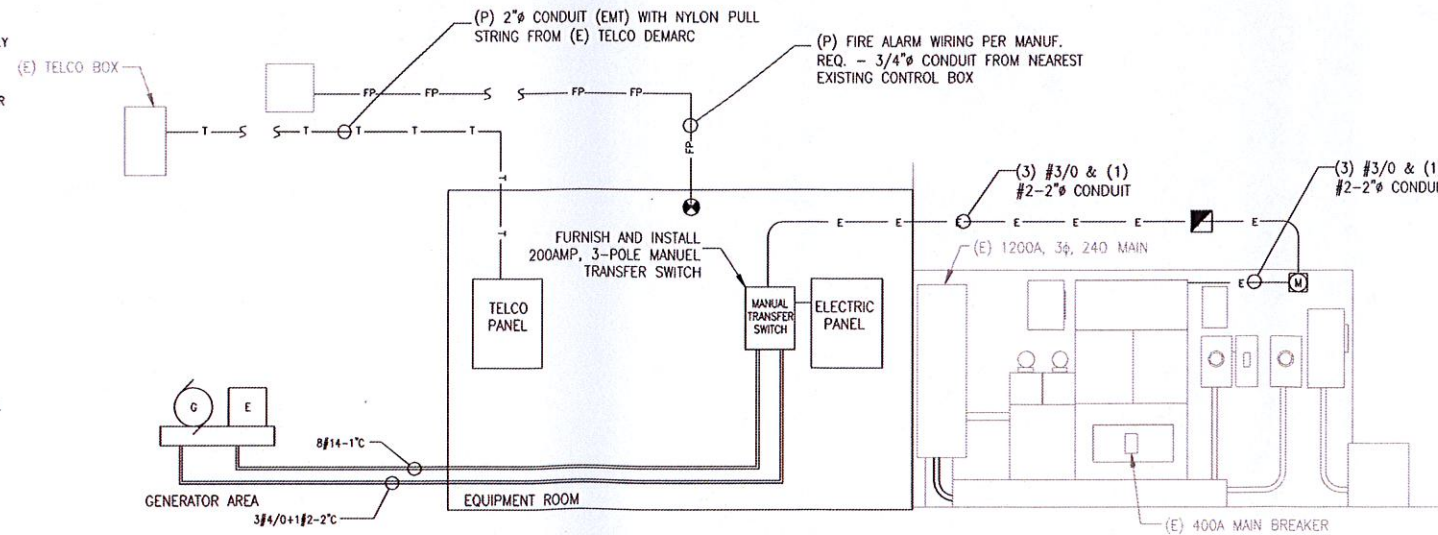
ELECTRICAL AND TELEPHONE GENERAL NOTES

1. FOLLOWING COMPLETION OF WORK, PROVIDE OWNER WITH AS-BUILT DRAWINGS SHOWING TELEPHONE AND ELECTRIC LOCATIONS.
2. WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, NEC 2008.
3. COORDINATE WITH UTILITY AND LOCAL ELECTRICAL INSPECTOR FOR FINAL POWER CONNECTION.
4. UTILITY WILL SUPPLY METER. COORDINATE WITH UTILITY FOR METER TYPE AND INTERCONNECTION.
5. ALL EXISTING UNDERGROUND LINES ON SITE TO BE LOCATED PRIOR TO CONSTRUCTION. CALL 1-888-DIG-SAFE PRIOR TO CONSTRUCTION.
6. SEAL ALL SERVICE ENTRANCES INTO SHELTER FOLLOWING INSTALLATION.
7. SEE PAGE G-1 FOR GENERAL GROUNDING NOTES.
8. COORDINATE WITH LOCAL TELEPHONE COMPANY FOR ALL ROUTING AND DESIGN.
9. CONTRACTOR TO VERIFY CONTROL WIRING SIZE WITH GENERATOR MANUFACTURER PRIOR TO CONSTRUCTION.



GROUNDING NOTES:
ALL GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE AT&T MOBILITY GROUNDING GUIDE.

1 ONE LINE GROUNDING DIAGRAM
E-1 SCALE: N.T.S.



2 POWER/TELCO RISER DIAGRAM
E-1 SCALE: N.T.S.



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SHEET TITLE
ELECTRICAL ONE-LINE DIAGRAM & NOTES

SHEET NUMBER	REVISION #
E-1	2

SPLIT-SYSTEM AIR CONDITIONING NOTES:

QUALITY ASSURANCE

CONFIRM THAT UNITS WILL NOT INTERFERE WITH "QUIET ENJOYMENT" OF TENANT SPACES ADJACENT TO THE PROPOSED UNITS.
 COMPLY WITH GOVERNING CODES AND REGULATIONS, PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS, DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 COMPLIANCE: ARI 210.360; ASME CODE
 WARRANTY: WARRANTY FOR HVAC COMPONENTS SHALL BEGIN WHEN THE UNIT IS DELIVERED.

MATERIALS

SPLIT SYSTEM UNITS: BY CARRIER-OUTFITTED PER AT&T SPECIFICATIONS.
COMPRESSORS: ALL COMPRESSORS USED IN THE HVAC UNITS SHALL BE SCROLL-TYPE COMPRESSORS AND SHALL BE SUITABLY EQUIPPED TO START UNDER LOW-AMBIENT TEMPERATURE CONDITIONS.
CONTRACTORS: CONTRACTORS SHALL BE HEAVY-DUTY DOUBLE POLE DEVICES, DESIGNED FOR HARD STARTS.
CONTROLS: THE HVAC UNITS SHALL BE CONTROLLED BY A STANDARD LEAD-LAG CONTROLLER. THE HVAC UNITS AND THEIR CONTROLS SHALL BE CONFIGURED SUCH THAT NO CONDITION (INCLUDING FAILURE OF THE LEAD-LAG CONTROLLER) WILL ALLOW MORE THAN ONE HVAC UNIT TO START THE SAME TIME. CONTROLS SHALL BE DESIGNED SUCH THAT ACTIVATION OF SMOKE DETECTOR SHALL SHUT DOWN THE ENTIRE HVAC SYSTEM.
AT A STATUS MONITORING: THE SYSTEM SHALL PROVIDE INDICATION (NORMALLY-CLOSED CONTACTS WHICH OPEN ON ALARM CONDITION) THAT A GIVEN UNIT OR UNITS ARE INOPERATIVE.
PUMPS: PROVIDE CONDENSATE PUMPS WITH LIQUID-TIGHT DRAIN PANS ON ALL SPLIT-SYSTEM AIR HANDLERS. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS TO SIZE CONDENSATE PUMP BASE ON VERTICAL HEIGHT AND SITE SPECIFIC CONDITIONS.
DISCHARGE PROTECTION: THE SYSTEM SHALL INCLUDE SUITABLE PROTECTION FOR COMPRESSORS SUCH THAT NO COMPRESSOR CAN BE DAMAGED DUE TO HIGH-PRESSURE OR LOW-PRESSURE REFRIGERANT CONDITIONS, LOSS OF REFRIGERANT, OR SHORT-CYCLING.

INSULATION MATERIALS FOR PIPING:

FLEXIBLE ELASTOMERIC CELLULAR INSULATION: FLEXIBLE EXPANDED CLOSED-CELL STRUCTURE TYPE WITH SMOOTH SKIN ON BOTH SIDES; TUBULAR MATERIALS, ASTM C 534, TYP 1; SHEET MATERIALS, ASTM C 534, TYPE II
FIRE PERFORMANCE: TYPE SUITABLE FOR SERVICE.
VAPOR BARRIER: TYPE SUITABLE FOR SERVICE.
INSULATION ACCESSORIES: INSULATION CEMENTS, ADHESIVE JACKETS, TAPE, COMPOUNDS SUITABLE FOR SERVICE AND EXPOSURE.

INSTALLATION

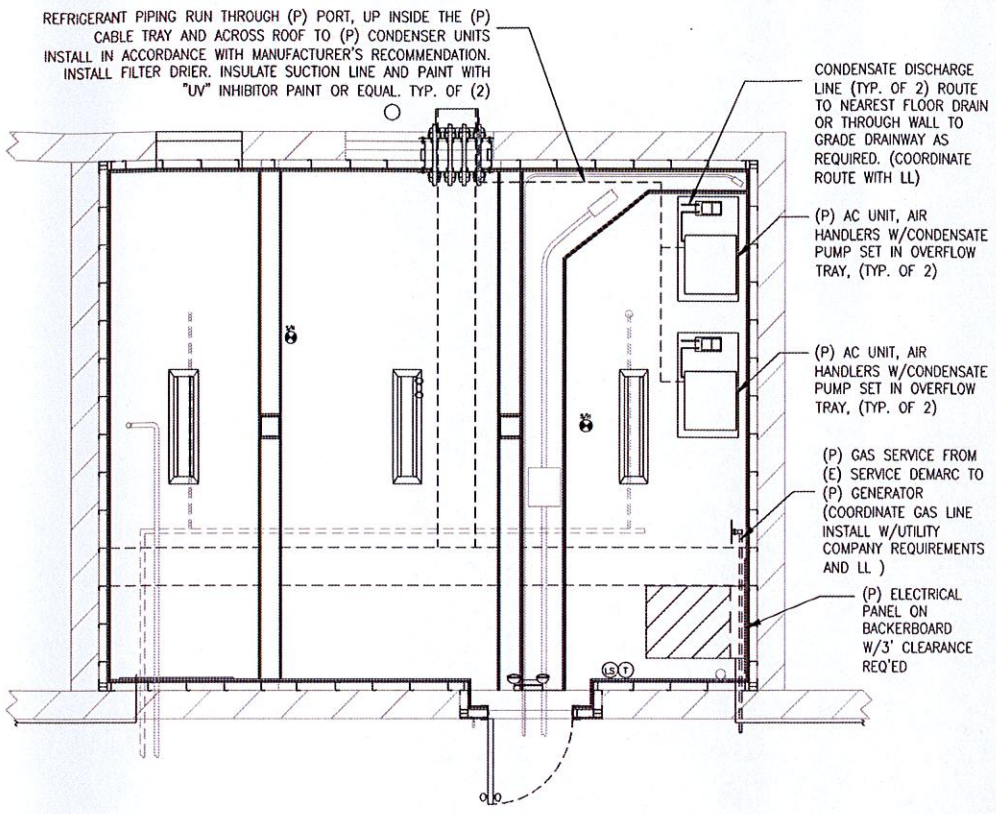
INSTALL MATERIAL AND SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SUBMITTALS, INSTALL MATERIALS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE FOR EXPOSED WORK. COORDINATE WITH WORK OF OTHER SECTIONS. COMPLY WITH APPLICABLE REGULATIONS AND CODE REQUIREMENTS. PROVIDE PROPER CLEARANCES FOR SERVICING.
 SUPPORT PIPING PROPERLY. PITCH TO DRAIN POINTS. INSTALL WITH PIPE EXPANSION LOOPS, MECHANICAL EXPANSION JOINTS, AND ANCHORS.
 MAINTAIN INDICATED FIRE RATINGS OF WALLS, PARTITIONS, CEILINGS AND FLOORS AT PENETRATIONS. SEAL WITH FIRESTOPPING TO MAINTAIN FIRE RATING.
 INSTALL REFRIGERANT LINES ON SPLIT-SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSULATE LINES. FOR EXTERIOR APPLICATIONS, USE ULTRAVIOLET-RESISTENT INSULATION. USE PRESSURE-TREATED SLEEPERS TO SUPPORT LINES, A MAXIMUM OF 4 FEET ON CENTER ACROSS ROOFS AND FLAT SURFACES.
 CHARGE THE HVAC SYSTEM, TEST FOR LEAKS, AND VERIFY THE UNIT IS FULLY OPERATIONAL. CLEARLY LABEL AND TAG ALL COMPONENTS. TEST AND BALANCE ALL SYSTEMS FOR PROPER OPERATION. REMOVE AND REPLACE UNITS WHICH DO NOT OPERATE PROPERLY AT NO ADDITIONAL EXPENSE TO COMPANY.
 RESTORE DAMAGED FINISHES. CLEAN AND PROTECT WORK FROM DAMAGE.

SUBMITTALS

PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.
OPERATION AND MAINTENANCE DATA: SUBMIT MANUFACTURER'S OPERATION AND MAINTENANCE DATA, INCLUDING OPERATING INSTRUCTIONS, LIST OF SPARE PARTS AND MAINTENANCE SCHEDULE.

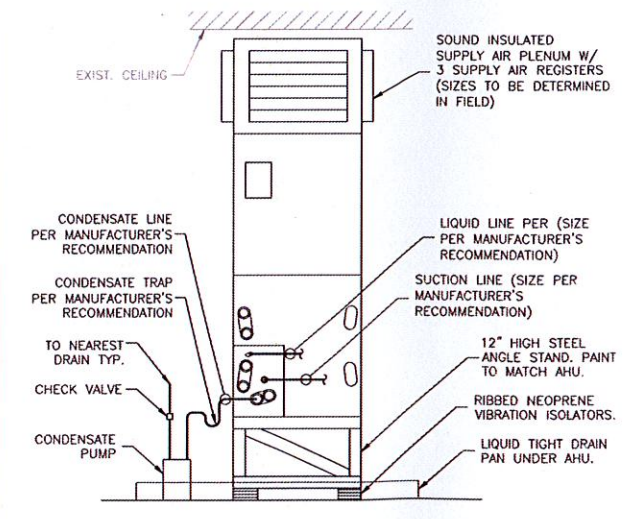
MECHANICAL NOTES:

- DRAIN PANS SHALL BE CAPABLE OF SUPPORTING AIR-HANDLER UNITS (APPROX. 200# EACH). PANS SHALL SUPPORT CONDENSATE PUMP - PUMP TO BE MOUNTED PER MFR. SPECIFICATIONS TO SUCCESSFULLY PUMP OUT DRAIN PAN THRU 3/4" CWT DISCHARGE WITH CHECK VALVE.
- DRAIN PAN SHALL BE DETAILED BY SUBCONTRACTOR BUT SHALL MEASURE APPROXIMATELY 4'-0"x2'-6"x4" HIGH.
- CONTRACTOR SHALL INSTALL 3/4" CWT DRAIN LINE FROM DRAIN CONNECTION OF EACH AIR HANDLER THROUGH A SEAL TRAP (W/PLUG) TO THE CONDENSATE PUMP.
- INDIVIDUAL 3/4" CWT DISCHARGES FROM EACH CONDENSATE PUMP SHALL BE RUN (PITCHED DOWN) FROM EQUIPMENT ROOM IN A COMMON 1" CWT DRAIN LINE TO NEAREST BUILDING DRAIN OR OUTSIDE DRAINWAY. COORDINATE EXACT ROUTING WITH LL.
- CONTRACTOR SHALL FURNISH/INSTALL (2) AIR HANDLERS WITH MINIMUM 18" ANGLE STEEL ELEVATED SUPPORT STRUCTURE INSIDE AT&T EQUIPMENT ROOM WALLS AS SHOWN - EXACT LOCATION TO BE FIELD DETERMINED WITH OWNER APPROVAL UNITS TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS INCLUDING CONDENSATE DRAINAGE OF NOTE (4).
- CONTRACTOR SHALL INSTALL 22" X 10" SUPPLY DUCT WORK FROM AIR HANDLERS TOP DISCHARGE TO BRING IN CONDITIONED AIR THRU SUBCONTRACTOR SPECIFIED SUPPLY AIR REGISTER. EXACT LOCATIONS TO BE FIELD DETERMINED INCLUDING CONSIDERATION OF EQUIPMENT INSIDE AT&T EQUIPMENT ROOM. SUPPLY DUCT WORK TO BE A MINIMUM OF 20 GAUGE GALVANIZED AND SHALL BE INSULATED WITH A MINIMUM OF 1 1/2" THICK FIBERGLASS INSULATION. *AIR HANDLERS SHALL NOT HAVE ELECTRIC HEAT OR OTHER TYPE OF HEATING UNLESS STATED OTHERWISE BY OWNER, I.E. UNITS ARE FOR AIR CONDITIONING ONLY.
- RETURN AIR SHALL BE INTRODUCED BACK TO THE AIR HANDLERS (BOTTOM ENTRANCE) THRU 24" X 24" DUCT WORK LOCATED APPROXIMATELY 12" ABOVE FLOOR ELBOWED UP INTO AIR HANDLER. EXACT LOCATION TO BE FIELD DETERMINED.
- CONTRACTOR SHALL FURNISH/INSTALL CONDENSING UNITS, MATCHED TO EACH AIR HANDLER. UNITS SHALL BE MOUNTED ON PROP. CONCRETE FILLED SLEEPERS ON EXIST. ROOF. UNITS TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS. SUBCONTRACTOR SHALL INSTALL LIQUID REFRIGERANT TUBING (SIZED PER MANUFACTURER'S REQUIREMENTS) FROM AIR HANDLERS TO CONDENSING UNITS - EXACT LOCATIONS INCLUDING REQUIRED WALL/CEILING PENETRATIONS (WITH PROPER SEALING) SHALL BE FIELD DETERMINED WITH OWNER APPROVAL. 1" THICK ARMAFLEX INSULATION SHALL BE INSTALLED ON LIQUID REFRIGERANT COOLING LINE.
- CONTRACTOR SHALL INSTALL THERMOSTATS, BOXES, SMOKE, DETECTORS, TIME CLOCK, AND ASSOCIATED TO CONTROL AIR HANDLER OPERATIONS IN MAINTAINING REQUIRED AT&T EQUIPMENT ROOM TEMPERATURE. ALL WORK OF UTILIZING STRAIGHT THRU, ONE-ON-ONE THERMOSTATS TO BE DONE ONLY WITH OWNER APPROVAL.
- ALL A/C PIPING IN EQUIPMENT ROOM MUST BE INSULATED TO PREVENT SWEATING.
- CONTRACTOR TO VERIFY ALL PIPING SIZE WITH MANUFACTURER PRIOR TO INSTALLATION.
- SEE SHEET G-1 FOR SPLIT-SYSTEM GENERAL NOTES.
- DUCTWORK TO BE CONSTRUCTED OF GALVANIZED SHEET METAL IN ACCORDANCE W/ *SMACNA 2" PRESSURE CLASS.

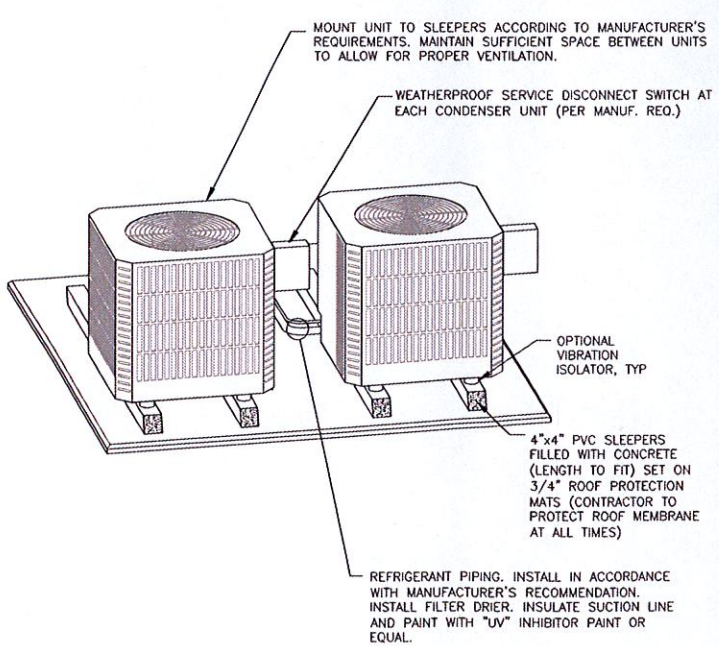


1 ROOM MECHANICAL PLAN
 M-1 SCALE: N.T.S.

AIR HANDLER	
MANUFACTURER:	ARCOAIRE
MODEL:	FM4X
COOLING (BTU/HR):	48,000
NOMINAL TONS:	4
VOLTAGE:	208/230
*CIRCUIT BREAKER:	V.W. MANUF'R
CONDENSING UNIT	
MANUFACTURER:	ARCOAIRE
MODEL:	N4A3
COOLING (BTU/HR):	48,000
NOMINAL TONS:	4
ACCESSORIES:	HARD START KIT
VOLTAGE:	208/230
*CIRCUIT BREAKER:	40 V.W. MANUF'R
CONDENSATE PUMP	
VENDOR:	MCMaster-CARR
MODEL:	99575K41
SYMBOL:	CP-1 & CP-2
VOLTAGE:	120
*CIRCUIT BREAKER:	N/A
*CONTRACTOR SHALL VERIFY BREAKER SIZES WITH MANUFACTURER'S SPECIFICATIONS	



2 AIR HANDLER INSTALL. TYP.
 M-1 SCALE: N.T.S.



3 CONDENSER INSTALL. TYP.
 M-1 SCALE: N.T.S.

HALF SIZE PRINT
 THIS DRAWING IS SCALEABLE AT HALF THE NOTED SCALE



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWING REVISIONS			
NO.	DATE	DESCRIPTION	BY
2	04/02/15	REVISED DRAWING	MER
1	03/06/15	REVISED DRAWING	MER
0	02/17/15	ISSUED FOR REVIEW	DD

SITE NUMBER: CT2583S-A
FA NUMBER: 11571102
 168 CENTER STREET
 SOUTHLINGTON, CT 06489
 HARTFORD COUNTY

DRAWN BY:	CHECKED BY:
DD	MRC

SHEET TITLE
MECHANICAL PLAN

SHEET NUMBER	REVISION #
M-1	2