



Mobility

SITE NUMBER: IL4407
SITE NAME: AURORA SOUTH NSB
PROJECT: NSB
FA CODE: 15815770
PTN #: 3301A13M9C
PACE ID: MRCHI067690
US ID: 319760
SITE ADDRESS: 1010 LEBANON STREET
AURORA, IL 60505

NOTE: SCALE NOTED APPLIES TO 11"x17" SHEET SIZE. IF PRINT SIZE IS 24"x36", THEN ACTUAL SCALE IS DOUBLE OF SCALE NOTED.

PROJECT INFORMATION VICINITY MAP SCOPE OF WORK DRAWING INDEX

APPLICANT: AT&T
PROPOSED USE: TELECOMMUNICATIONS FACILITY
STRUCTURE TYPE: MONOPOLE TOWER
PROPERTY OWNER: FOX VALLEY PARK DISTRICT
CONTACT PERSON: JEFF PALMQUIST
JURISDICTION: CITY OF AURORA
COUNTY: KANE COUNTY
LATITUDE: N 41° 44' 09.54" (41.735983° N)
LONGITUDE: W 088° 19' 04.37" (88.317881° W)
GROUND ELEVATION: ±652 FT AMSL
POWER COMPANY: COMED
PHONE: (800) 334-7661
TELEPHONE COMPANY: AT&T
PHONE: (800) 357-0902

DIRECTIONS: DEPART O'HARE INTERNATIONAL. MERGE ONTO I-190, AT EXIT 1D, TURN RIGHT ONTO RAMP I-294 / INDIANA, *TOLL ROAD* MERGE ONTO I-294 [TRI-STATE TOLLWAY], TURN RIGHT ONTO RAMP I-88 / E-W TOLLWAY / AURORA, TURN RIGHT ONTO RAMP SOUTH FARNSWORTH AVE, BEAR RIGHT (SOUTH) ONTO CR-77 [N FARNSWORTH AVE], TURN RIGHT (WEST) ONTO E INDIAN TRAIL, TURN LEFT (SOUTH) ONTO SR-25 [AURORA AVE], BEAR RIGHT (SOUTH) ONTO SR-25 [N BROADWAY AVE], KEEP STRAIGHT ONTO SR-25 [S BROADWAY ST] TURN LEFT (EAST) ONTO EVANS AVE, TURN RIGHT (SOUTH) ONTO LAFAYETTE ST, TURN RIGHT (WEST) ONTO LOCAL ROAD(S), ARRIVE AT IL4407

NEW EQUIPMENT TO BE INSTALLED:
- INSTALL NEW 125' HIGH MONOPOLE & (3) NEW SECTOR FRAMES
- INSTALL (9) NEW ANTENNAS (TYP.3 PER SECTOR)
- INSTALL (12) NEW RRUS (TYP.4 PER SECTOR)
- INSTALL (2) NEW RAYCAP DC9-48-60-24-8C-EV SQUIDS
- INSTALL NEW EQUIPMENT SHELTER W/ GENERATOR ROOM
- INSTALL (1) DC POWER PLANT: VERTIV 5100 WITH 12R/ 0C
- INSTALL (2) STRINGS OF SBS190F BATTERIES & (1) FIF RACK
- INSTALL (6) #6AWG DC POWER & (2) 24 PAIRS FIBER CABLES
- INSTALL RAYCAP DC50 PANEL TO BE PROVIDED BY AT&T, D2 SIAD, GPS ANTENNA AND 6610 SAU KIT
- INSTALL (1) 6648 + XMU Tri-Mode BBU for LTE/5G/C-Band/DoD.
- INSTALL NEW ICE BRIDGE; H-FRAME, METER & FIBER EQUIPMENT
- INSTALL NEW ALUMINUM FENCE
- INSTALL NEW LANDSCAPING & NEW PAVED ACCESS DRIVEWAY
REMOVE:
- REMOVE EXISTING LIGHT POLE IN BASEBALL FIELD.
RELOCATE:
- RELOCATE EXISTING FLOODLIGHTS TO NEW MONOPOLE TOWER.

Table with 2 columns: SHEET, DESCRIPTION. Rows include: IL4407-T01 TITLE SHEET, IL4407-L1-L3 PLAT OF SURVEY OF LEASE PARCEL AND EASEMENTS, IL4407-C01 OVERALL SITE PLAN, IL4407-C02 ENLARGED SITE PLAN, IL4407-C03 TOWER ELEVATION & ANTENNA LAYOUT, IL4407-A01 SLAB DETAILS, IL4407-A02 SHELTER ELEVATIONS, IL4407-A03 FENCE DETAILS, IL4407-A04 CONSTRUCTION DETAILS, IL4407-A05-1 EQUIPMENT SPECIFICATIONS-1, IL4407-A05-2 EQUIPMENT SPECIFICATIONS-2, IL4407-A06 ANTENNA MATRIX, IL4407-A07 COAX COLOR CODING, IL4407-A08 FIBER-OPTIC JUMPER COLOR CODING, IL4407-A09 CONSTRUCTION NOTES, IL4407-E01 UTILITY PLAN & ELECTRICAL DETAILS, IL4407-E02 ELECTRICAL NOTES & DETAILS, IL4407-E03 UTILITY RACK DETAILS, IL4407-G01 GROUNDING PLAN & DETAILS, IL4407-G02 GROUNDING DETAILS & NOTES, IL4407-G03 FENCE GROUNDING & DETAILS, IL4407-LS01 LANDSCAPE IMPLEMENTATION PLAN

PROJECT CONSULTANTS
SITE ACQUISITION: MASTEC NETWORK SOLUTIONS
ENGINEER: APEX ENGINEERS, INC.
RF ENGINEER: AT&T MOBILITY

DO NOT SCALE DRAWINGS
HANDICAPPED REQUIREMENTS
PLUMBING REQUIREMENTS
FIRE PROTECTION NOTE

SPECIAL NOTES
ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT AT&T CONSTRUCTION INSTALLATION GUIDE.

STATE OF ILLINOIS
RAJESH K. GOYAL
LICENSED STRUCTURAL ENGINEER
081-005096

REFERENCE MATERIALS
THESE DRAWINGS ARE PREPARED BASED ON RFDS DATED 02/24/2022 REVISION # V1.0 GENERAL CONTRACTOR TO VERIFY AND INCORPORATE MOST RECENT VERSION OF RFDS PRIOR TO CONSTRUCTION.

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

AURORA SOUTH NSB
SITE NO. IL4407
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AURORA, IL 60505

AT&T logo

Table with columns: NO., DATE, REVISIONS, BY, CHK, APP'D. Includes revision history for FINAL CDs, 90% CDs, and REVISED LEASE EXHIBIT/ZONING DRAWING.

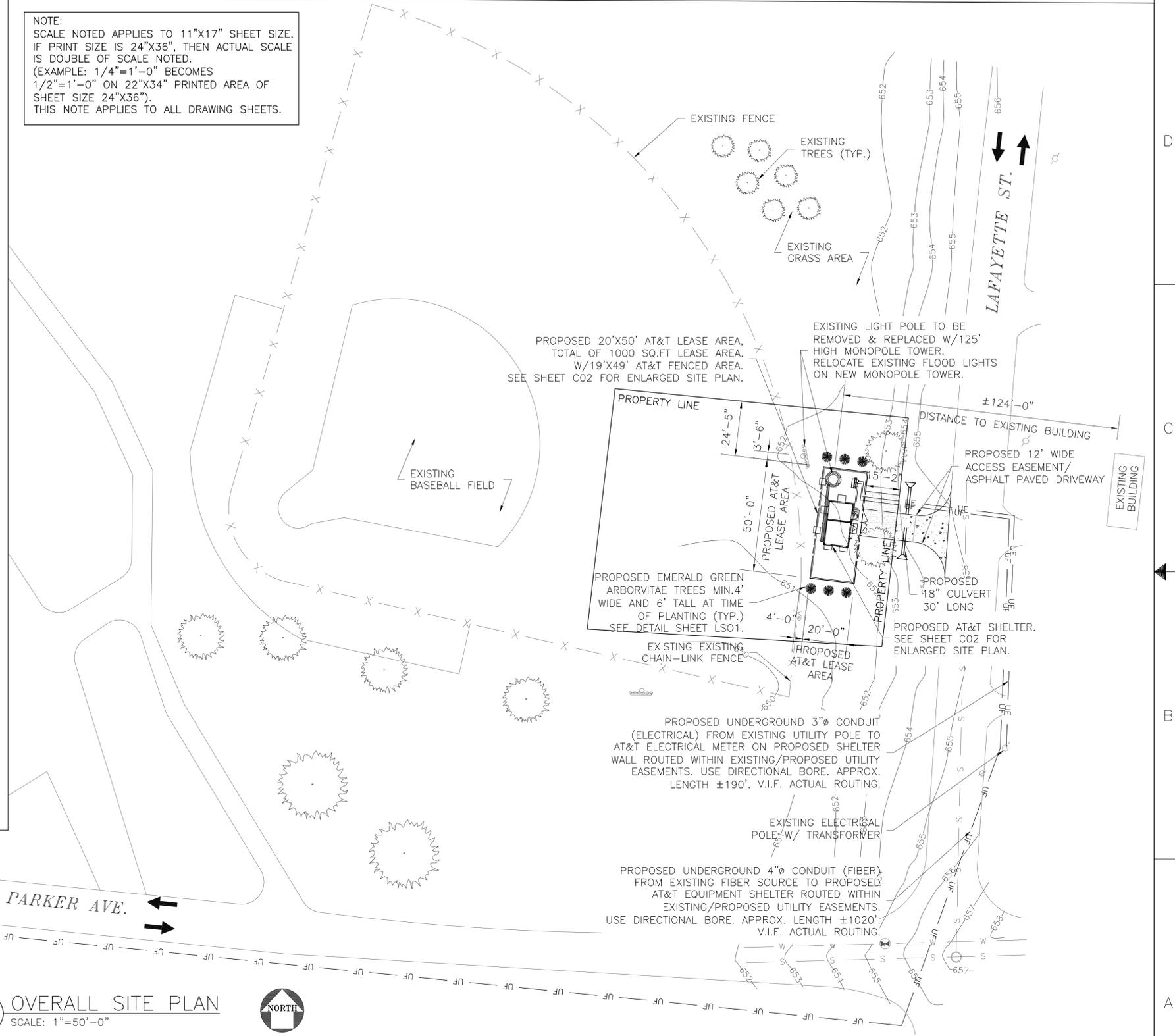


AERIAL OVERVIEW OF SITE



PROPOSED LEASE AREA LOCATION
(LOOKING WEST)

NOTE:
SCALE NOTED APPLIES TO 11"x17" SHEET SIZE.
IF PRINT SIZE IS 24"x36", THEN ACTUAL SCALE
IS DOUBLE OF SCALE NOTED.
(EXAMPLE: 1/4"=1'-0" BECOMES
1/2"=1'-0" ON 22"x34" PRINTED AREA OF
SHEET SIZE 24"x36").
THIS NOTE APPLIES TO ALL DRAWING SHEETS.



1 OVERALL SITE PLAN
SCALE: 1"=50'-0"



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APEX JOB No. NS22-025

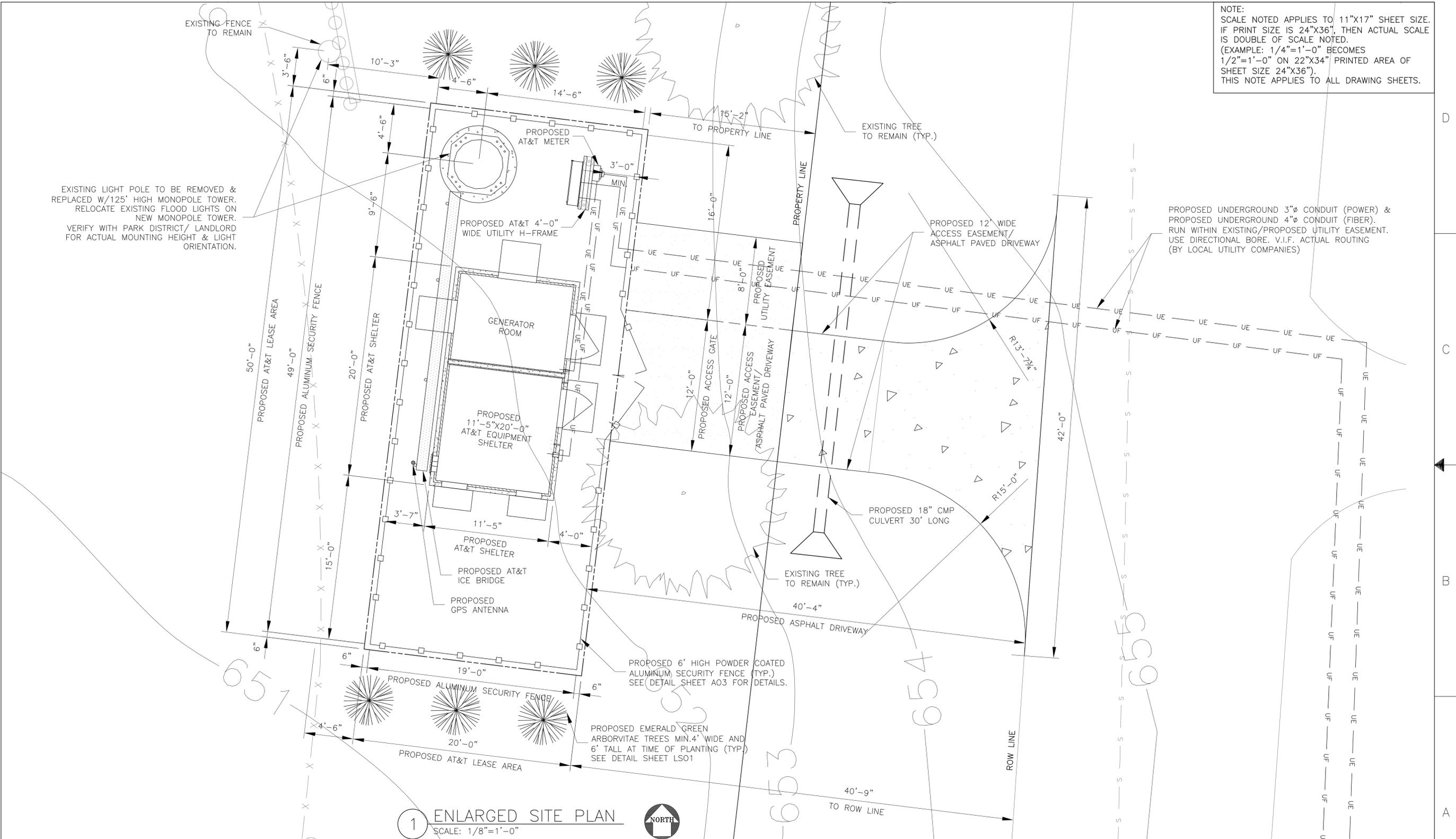
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0	05/12/23	FINAL CDs - ISSUED FOR CONSTRUCTION	YA	PB	RG
E	04/25/23	90% CDs ISSUED FOR REVIEW	YA	PB	RG
D	03/16/23	90% CDs ISSUED FOR REVIEW	YA	PB	RG
C	02/11/23	REVISED LEASE EXHIBIT/ZONING DRAWING	YA	PB	RG
B	08/23/22	REVISED LEASE EXHIBIT/ZONING DRAWING	YA	PB	RG
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY:	DRAWN BY:		

AT&T MOBILITY	
OVERALL SITE PLAN	
DRAWING NUMBER	REV
IL4407- C01	0

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 IS DOUBLE OF SCALE NOTED.
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 1/2"=1'-0" ON 22"x34" PRINTED AREA OF
 SHEET SIZE 24"x36").
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1 ENLARGED SITE PLAN
 SCALE: 1/8"=1'-0"



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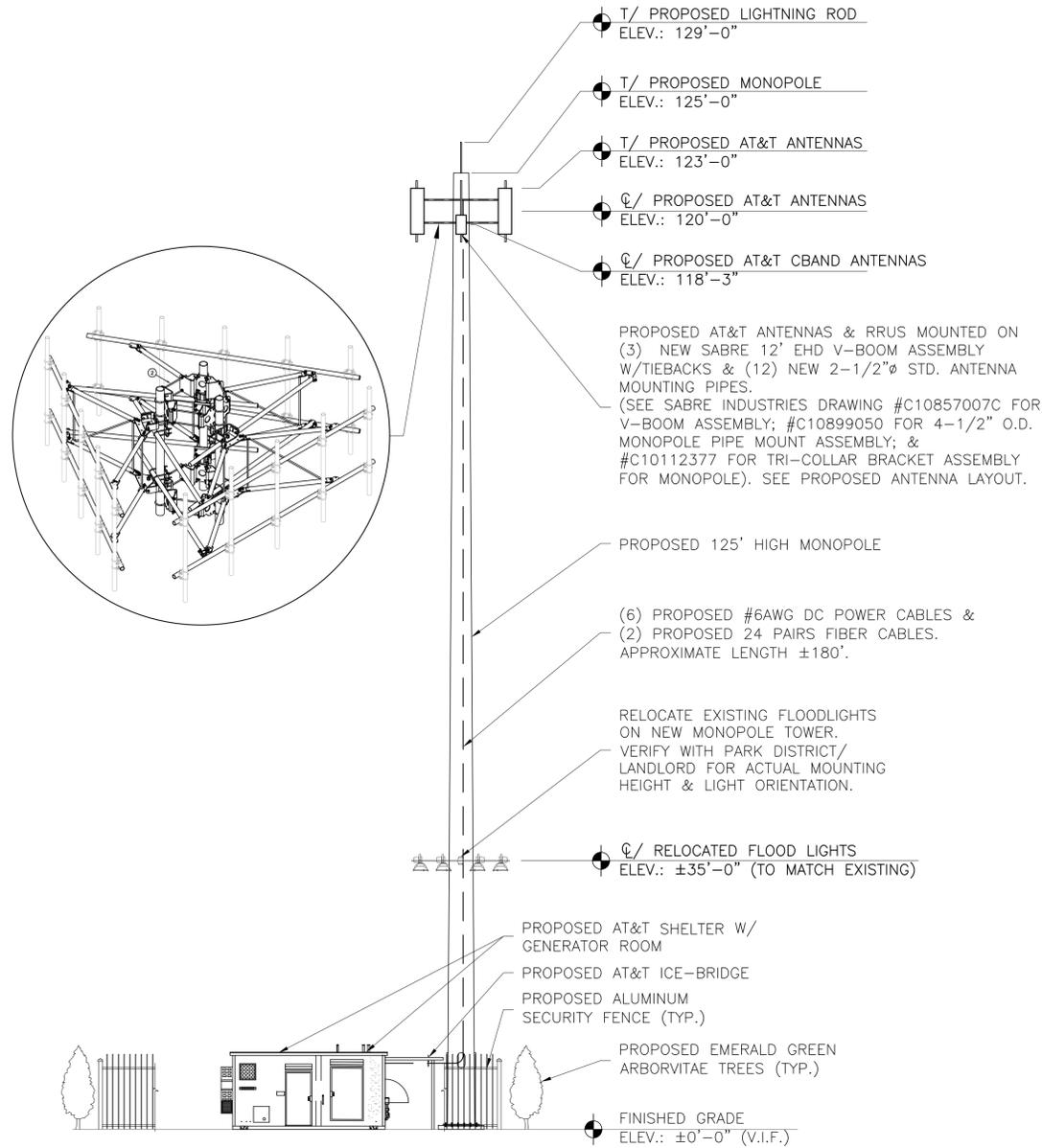
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AT&T MOBILITY	
ENLARGED SITE PLAN	
DRAWING NUMBER	REV
IL4407-C02	0

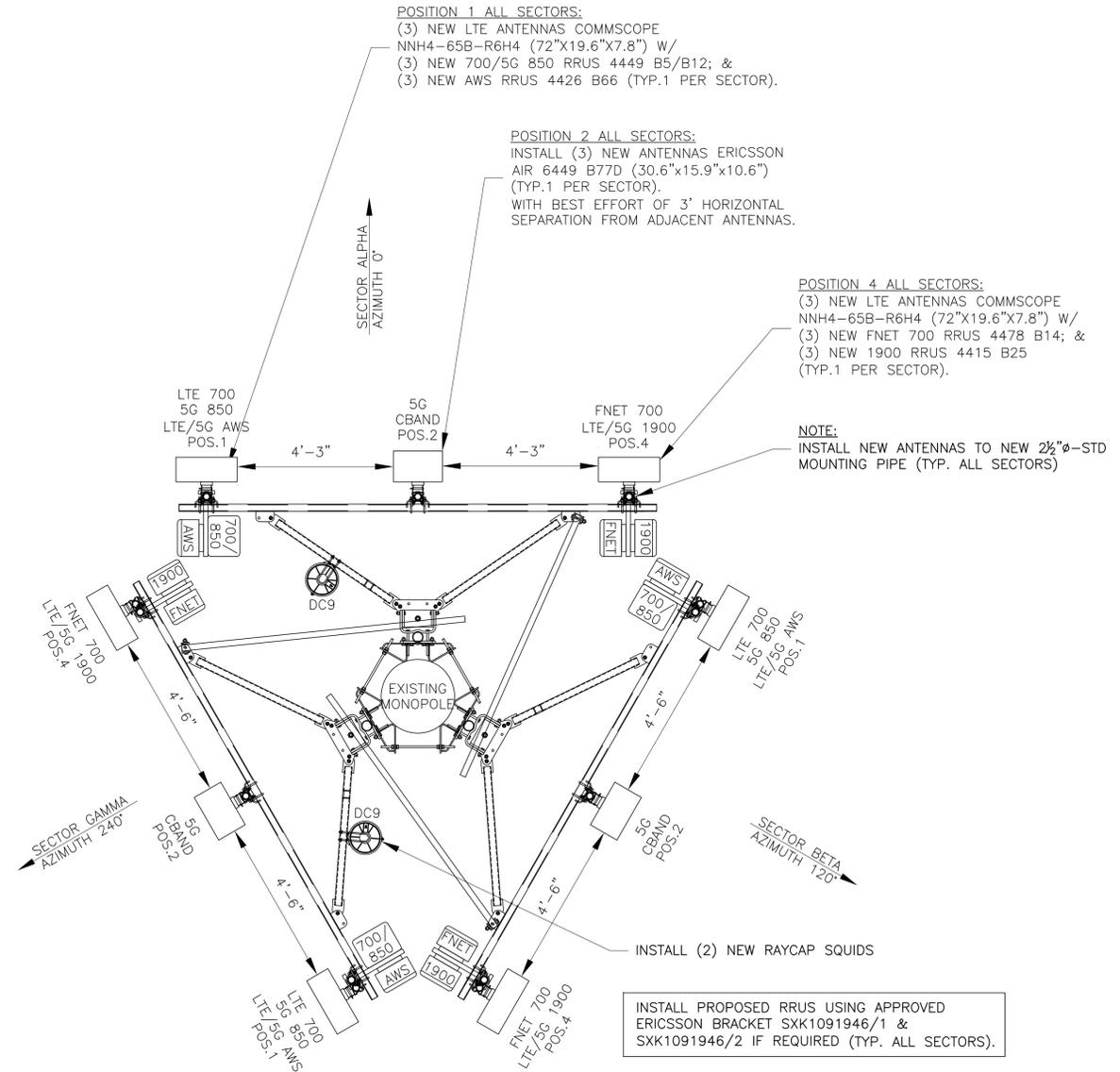
REFER TO ANTENNA MOUNT FRAME ANALYSIS BY APEX ENGINEERS, INC. DATED 05/12/2023 TOWER STRUCTURAL ANALYSIS BY OTHERS.

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(EXAMPLE: 1/4"=1'-0" BECOMES 1/2"=1'-0" ON 22"x34" PRINTED AREA OF SHEET SIZE 24"x36").
THIS NOTE APPLIES TO ALL DRAWING SHEETS.

PROPOSED TOTAL OF
(2) RAYCAP DC/FIBER DISTRIBUTION UNITS DC9-48-60-24-8C-EV INTEGRATED SURGE PROTECTOR



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



2 PROPOSED ANTENNA LAYOUT
SCALE: 1/4"=1'-0"

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APEX JOB No. NS22-025

AURORA SOUTH NSB

SITE NO. IL4407

1010 LEBANON STREET
AURORA, IL 60505



NO.	DATE	REVISIONS	BY	CHK	APP'D
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B	08/23/22	REVISED LEASE EXHIBIT/ZONING DRAWING	YA	PB	RG

SCALE: AS SHOWN DESIGNED BY: DRAWN BY:

AT&T MOBILITY

TOWER ELEVATION & ANTENNA LAYOUT

DRAWING NUMBER	REV
IL4407-CO3	0

6

5

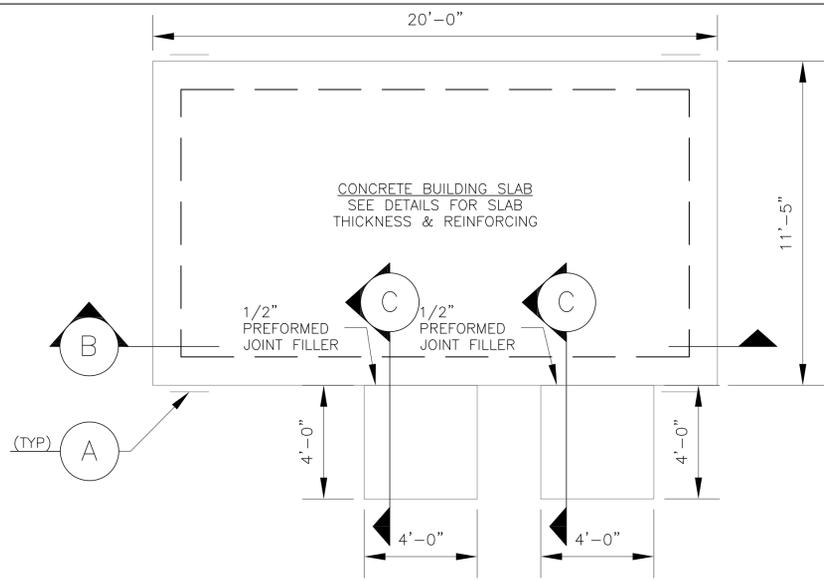
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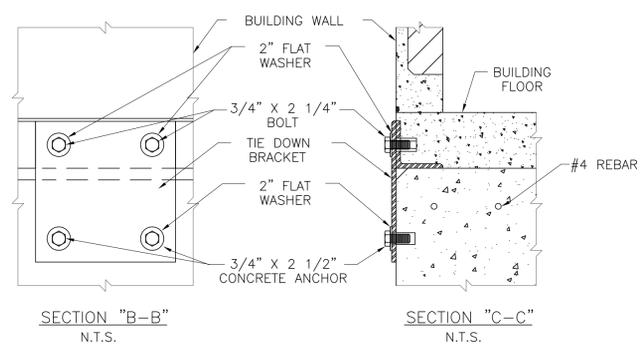
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1

11 x 17" B SIZE

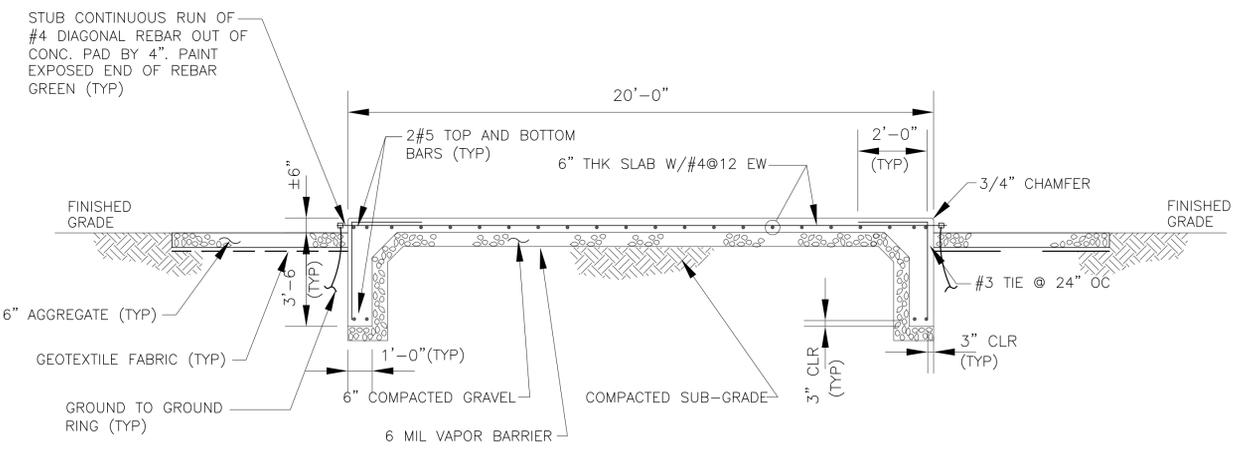


1 SHELTER FOUNDATION PLAN
SCALE: N.T.S.



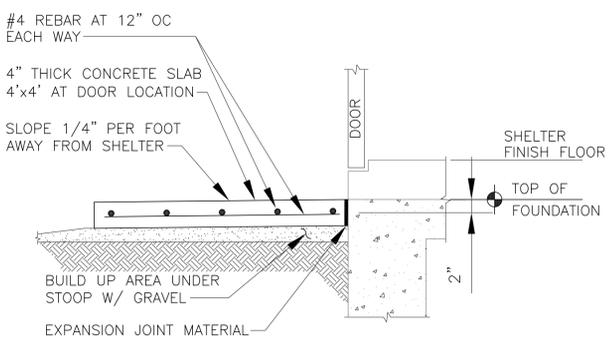
2 BLDG/FND ATTACHMENT DETAIL A
SCALE: N.T.S.

- FOUNDATION GENERAL NOTES:**
1. THE SITE SHALL BE STRIPPED OF ALL VEGETATION PRIOR TO FILL OR CONSTRUCTION OF THE FOUNDATION PAD.
 2. ALL FILL SAND SHALL BE 0-15 P.I. WITH A COMPACTION TEST RUN ON EACH 6" LIFT - COMPACTED TO 90% MODIFIED PROCTOR.
 3. ANY SOFT AREAS (TREE STUMP HOLES, ETC.) SHALL BE CUT OUT AND RECOMPACTED TO SAID PROCTOR.
 4. THE CONTRACTOR SHALL KEEP THE SITE SO IT WILL HAVE POSITIVE DRAINAGE AT ALL TIMES.
 5. ALL EXCAVATIONS SHALL BE FREE OF WATER BEFORE POURING CONCRETE.
 6. MINIMUM SOIL BEARING CAPACITY OF 2,500 PSF IN ALL FOUNDATION AND SLAB AREAS.

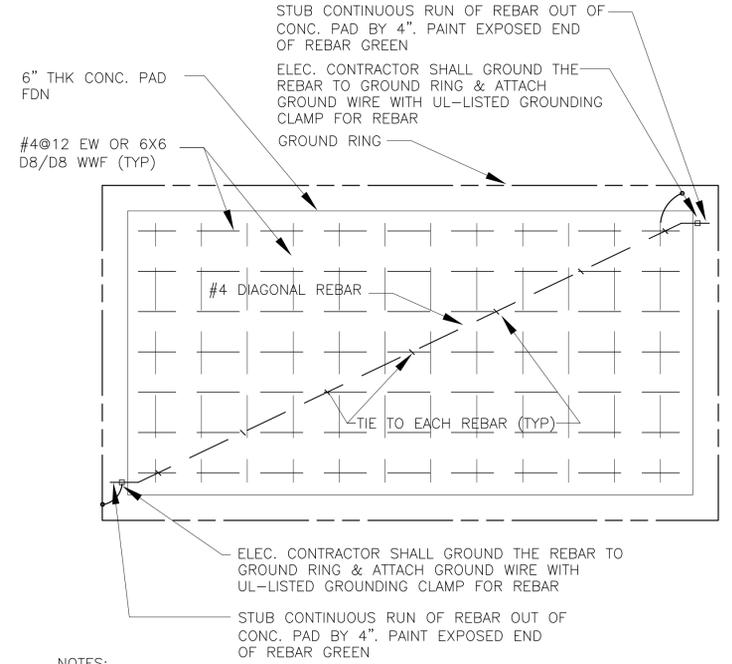


- NOTES:**
1. CONCRETE FINISH TO BE CLASS A TOLERANCE.
 2. BOTTOM OF FOUNDATION SHALL BE 6" BELOW FROST LINE AND BEAR ON UNDISTURBED SOIL
 3. TEST FOR 3000 PSI AT 7, 14, & 28 DAYS PER POUR BY INDEPENDENT LAB.
 4. ALL CONCRETE TO BE SIX SACK MIX.
 5. PERFORM CONCRETE SLUMP TEST (4" MAX). NO WATER TO BE ADDED TO CONCRETE MIX AFTER 4" SLUMP HAS BEEN ESTABLISHED BY INDEPENDENT LAB.

3 BLDG/FND ATTACHMENT SECTION B-B
SCALE: N.T.S.



4 STOOP DETAIL C-C
SCALE: N.T.S.



- NOTES:**
- THE 2008 N.E.C. SECTION 250.52 REQUIRES GROUNDING TO THE REBARS IN THE SHELTER FOUNDATION. THIS IS IN ADDITION TO THE GROUND RING & GROUND ROD REQUIRED. THE CONTRACTOR INSTALLING THE REBARS IN THE FOUNDATION PAD SHALL ADD ONE MORE REBAR THAT ATTACHES DIAGONALLY TO THE OTHER REBARS AND RUN UNBROKEN AS SHOWN IN PLAN.

5 GROUNDING OF FOUNDATION PAD REBARS - PLAN VIEW
SCALE: N.T.S.

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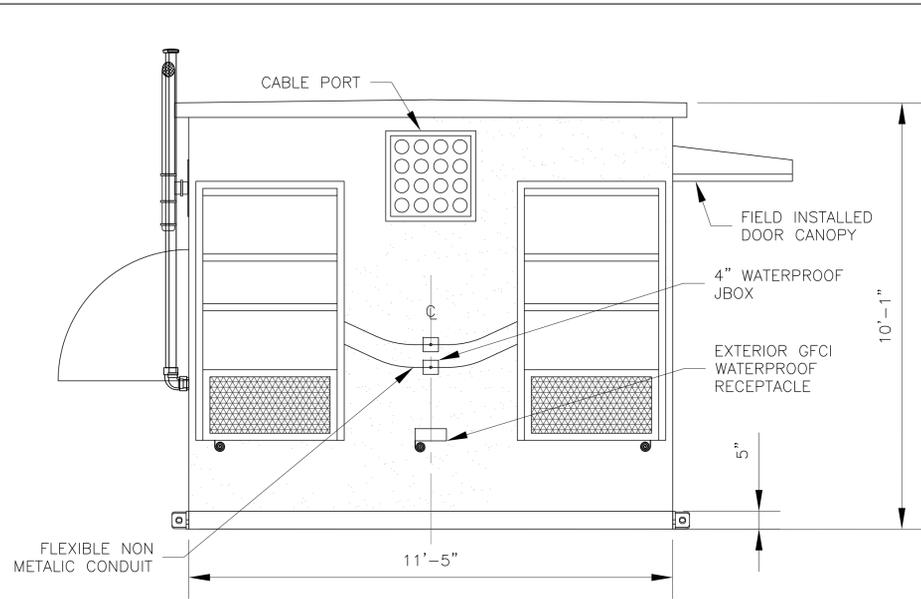
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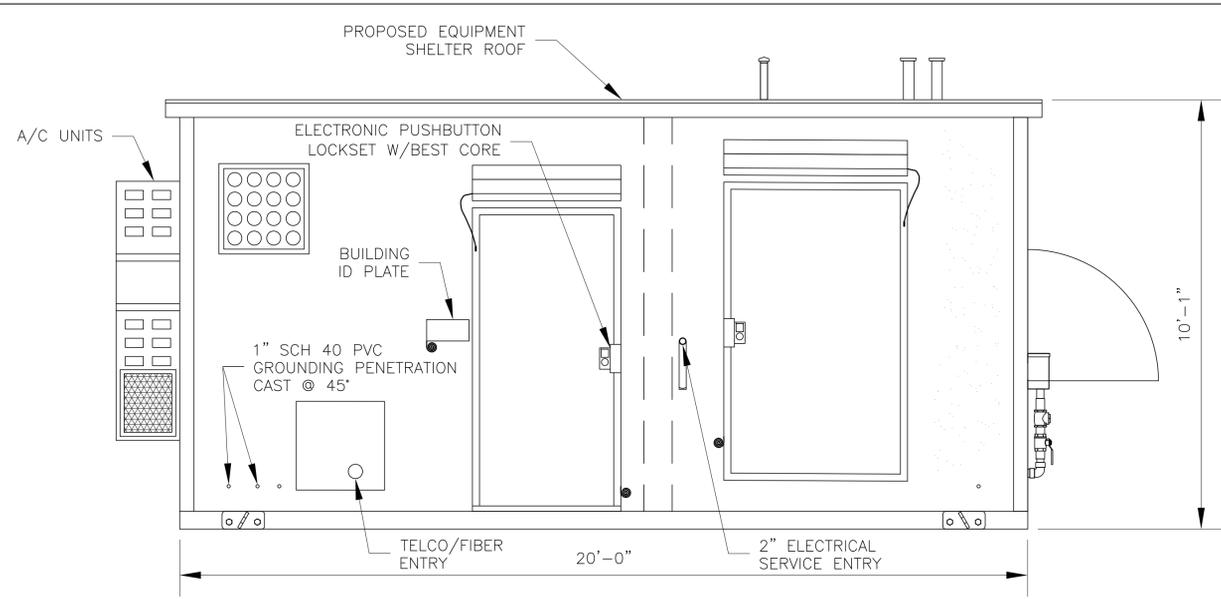


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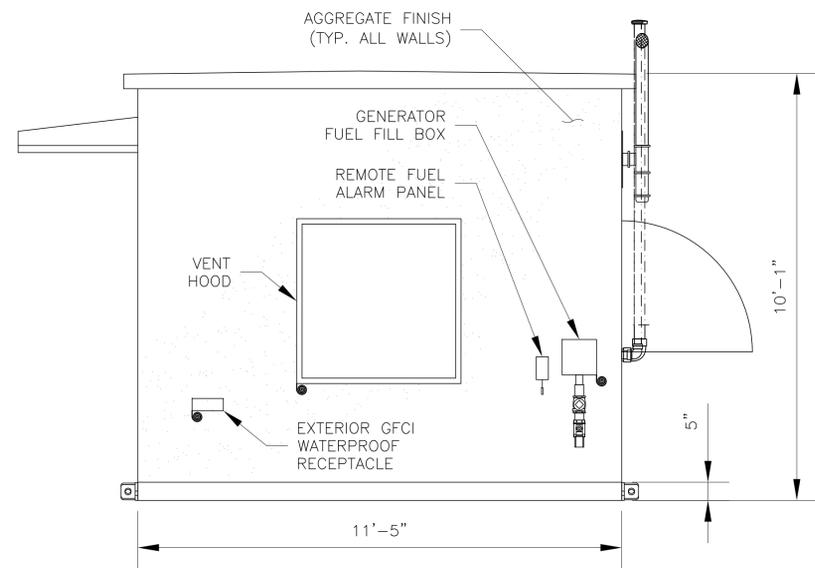
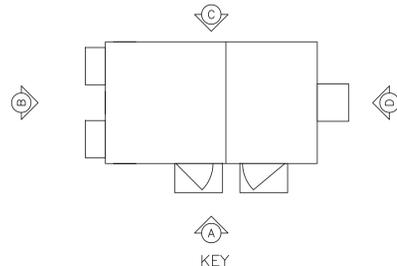
AT&T MOBILITY	
SLAB DETAILS	
DRAWING NUMBER	REV
IL4407-A01	0



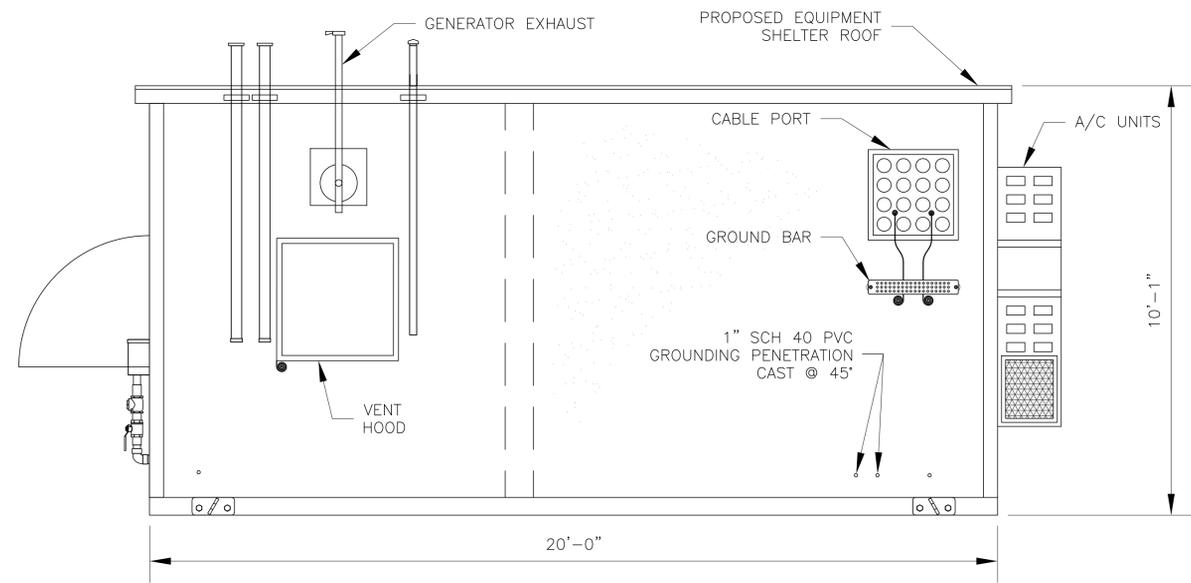
EQUIPMENT SHELTER ELEVATION - "B"
N.T.S.



EQUIPMENT SHELTER ELEVATION - "A"
N.T.S.



EQUIPMENT SHELTER ELEVATION - "D"
N.T.S.



EQUIPMENT SHELTER ELEVATION - "C"
N.T.S.

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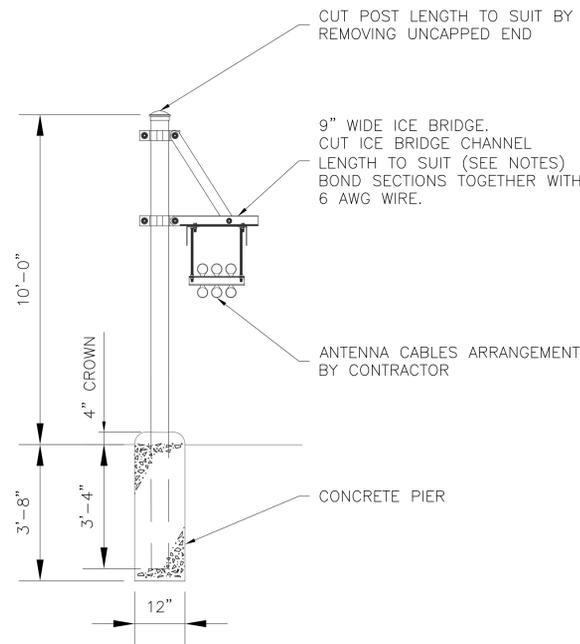
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AT&T MOBILITY	
SHELTER ELEVATIONS	
DRAWING NUMBER	REV
IL4407-A02	0

* INSTALL DRIP LOOP ON ANTENNA CABLES AT BOTTOM OF TOWER/MONOPOLE. BENDING RADIUS PER MANUFACTURER'S STANDARDS

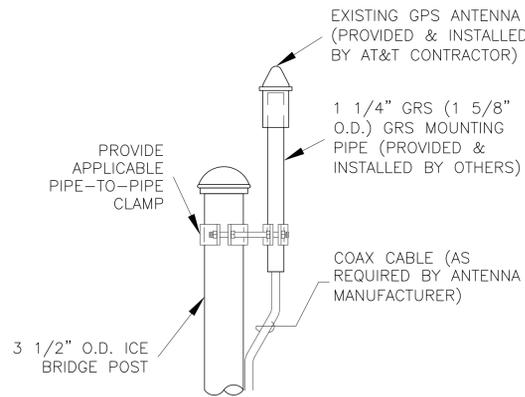


PIROD 852163
9" WIDE X 10' LONG
SUPPORTING ICE BRIDGE KIT

NOTES:

1. WHEN USING COMPONENTS AS SHOWN IN STANDARD DETAILS, MAXIMUM ALLOWABLE SPAN BETWEEN SUPPORTS ON A CONTINUOUS SINGLE SECTION OF BRIDGE CHANNEL SHALL BE 9 FEET FOR 10 FEET BRIDGE CHANNEL.
2. WHEN USING COMPONENTS FOR SPLICING BRIDGE CHANNEL SECTIONS, THE SPLICE SHOULD BE PROVIDED AT THE SUPPORT, IF POSSIBLE, OR AT A MAXIMUM OF 2 FEET FROM THE SUPPORT.
3. WHEN USING COMPONENTS, SUPPORT SHOULD BE PROVIDED AS CLOSE AS POSSIBLE TO THE ENDS OF ICE BRIDGES, WITH A MAXIMUM CANTILVER DISTANCE OF 2 FEET FROM THE SUPPORT TO THE FREE END OF THE ICE BRIDGE.
4. CUT BRIDGE CHANNEL SECTIONS SHALL HAVE RAW EDGES TREATED WITH A MATERIAL TO RESTORE THESE EDGES TO THE ORIGINAL CHANNEL, OR EQUIVALENT, FINISH.
5. ICE BRIDGES MAY BE CONSTRUCTED WITH COMPONENTS FROM OTHER MANUFACTURERS, PROVIDED THE MANUFACTURER'S INSTALLATION GUIDELINES ARE FOLLOWED.
6. DEVIATIONS FROM STANDARDS FOR COMPONENT INSTALLATIONS ARE PERMITTED WITH THE RESPECTIVE MANUFACTURER'S APPROVAL.
7. DEVIATIONS FROM ICE BRIDGE FOUNDATIONS REQUIRE ENGINEERING APPROVAL.

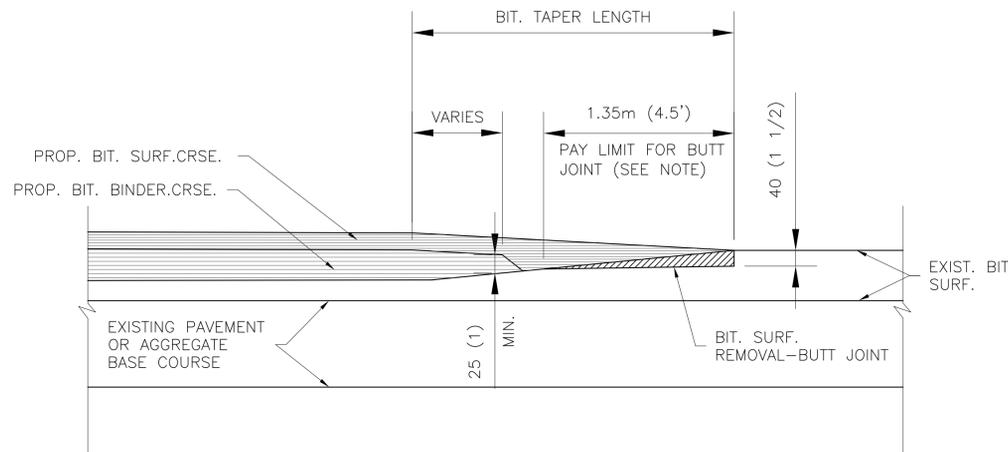
1 ICE BRIDGE PIROD 852163
SCALE: N.T.S.



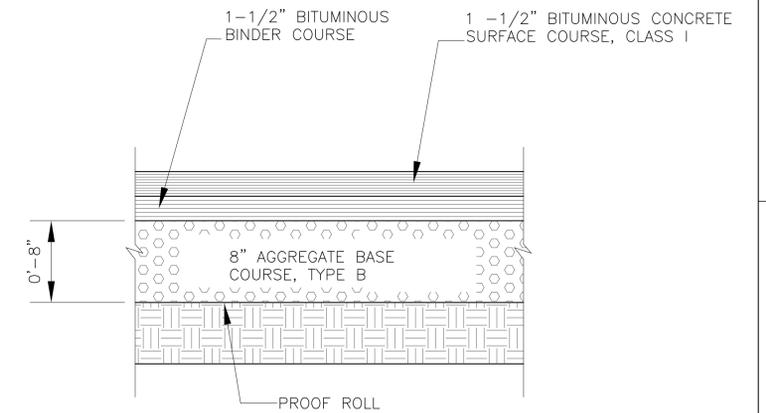
2 GPS ANTENNA MOUNTING DETAIL
SCALE: N.T.S.

NOTE:

THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED BITUMINOUS COURSES.



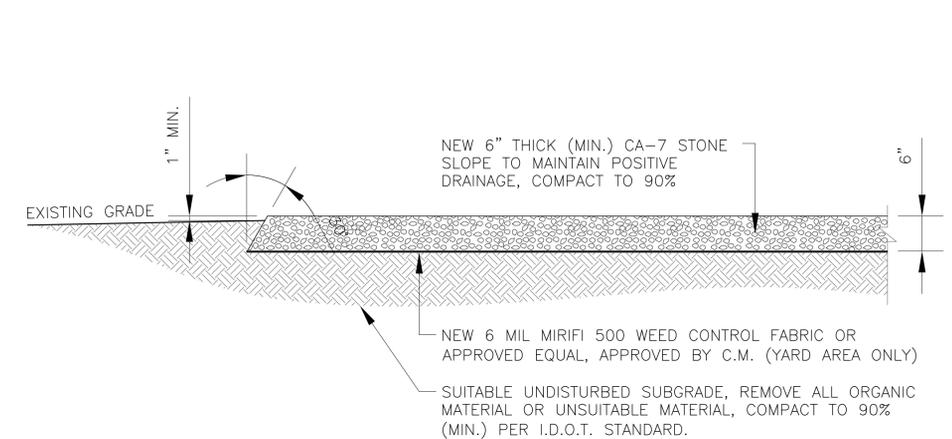
4 BUTT JOINT & BITUMINOUS TAPER
SCALE: N.T.S.



3 ASPHALT PAVEMENT DETAIL
SCALE: N.T.S.

NOTE:

WEED CONTROL FABRIC SHALL BE USED UNDER ALL AREAS OF THE YARD, AS NOTED ON SITE PLAN.



5 YARD PAVEMENT DETAIL
SCALE: N.T.S.

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AT&T MOBILITY	
CONSTRUCTION DETAILS	
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IL4407-A04	0

6

5

4

3

2

1

11 x 17" B SIZE

COMMSCOPE ANTENNAS NNH4-65B-R6H4

DIMENSIONS, HxWxD: 72"x19.6"x7.8"

SURVIVAL WIND SPEED: >93 MPH

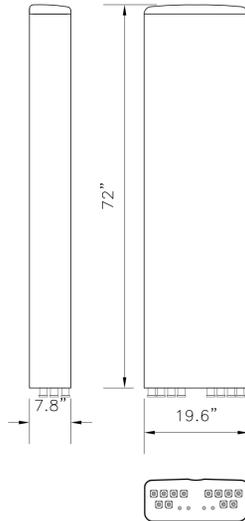
WEIGHT, WITHOUT MOUNTING: 83.3 LBS. (37.8 kg)

CONNECTOR: 8-PIN DIN FEMALE

MALE 8-PIN DIN

CONNECTOR POSITION: BOTTOM

MOUNTING POLE: 2.4-4.5 INCHES

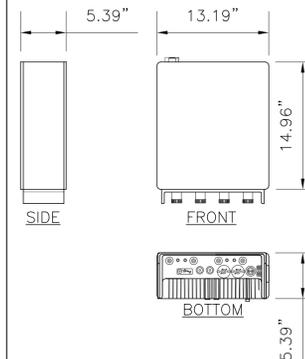


1 COMMSCOPE - NNH4-65B-R6H4

ERICSSON AIR 6449 B77D

ADVANCED ANTENNA SYSTEM (AAS)

- 64TX/64RX WITH 192 AE
- UP TO 320W
- EIRP (BORESIGHT): 81 dBm (DUAL-POLARIZATION)
- EIRP (ANGULAR AVERAGE): 79 dBm (DUAL-POLARIZATION)
- UP TO 200 MHz IBW & TCBW
- NR ONLY
- 4 X 25 Gbps eCPRI (FROM DAY 1)
- WEIGHT: 38 KG (83.8 POUNDS)
- SIZE (HxWxD): 778x403x268 MM (EXCLUDING BRACKETS)
- SIZE (HXWxD): 30.6x15.9x10.6 INCHES (EXCLUDING BRACKETS)
- -48 VDC (3-wire OR 2-wire)
- -40°C to +55°C
- SUPPORTED NUMBER OF LAYERS: DL/UL 16/8



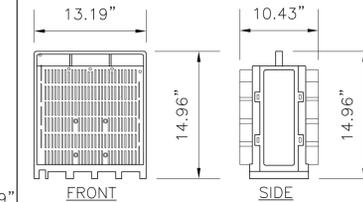
ERICSSON RRUS 4415

DIMENSIONS, HxWxD: 14.96"x13.19"x5.39"

WEIGHT, WITHOUT MOUNTING KIT: 46 lbs (21 kg)

STACKING OF RRH'S IS NOT PERMITTED. NO PAINTING OF RRU'S IS ALLOWED.

3 ERICSSON RRUS 4415

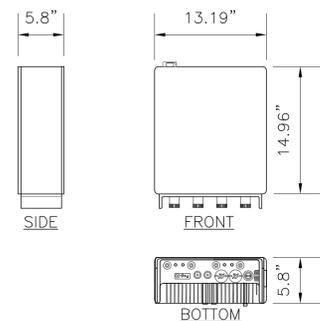


ERICSSON RRUS 4449 B5/B12

DIMENSIONS, HxWxD: 14.96"x13.19"x10.43" INCL. HANDLES, FEET AND SUNSHIELD, W/O FAN UNIT.

WEIGHT, WITHOUT MOUNTING KIT: 73 lbs (33 kg)

4 ERICSSON RRUS 4449 B5/B12



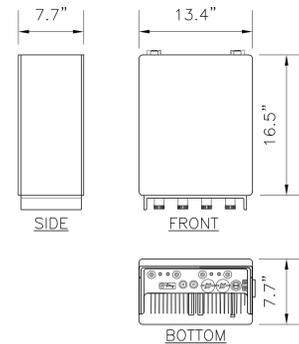
ERICSSON RRUS 4426 B66

DIMENSIONS, HxWxD: 14.96"x13.19"x5.8"

WEIGHT, WITHOUT MOUNTING KIT: 22 kg (48.4 lbs)

STACKING OF RRH'S IS NOT PERMITTED. NO PAINTING OF RRU'S IS ALLOWED.

5 ERICSSON RRUS 4426 B66



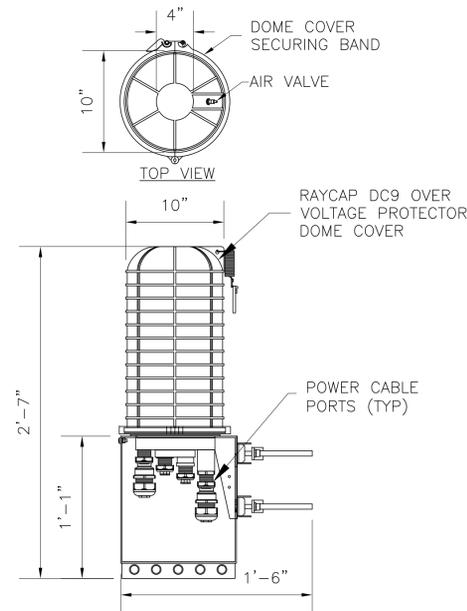
ERICSSON RRUS 4478

DIMENSIONS, HxWxD: 16.5"x13.4"x7.7"

WEIGHT, WITHOUT MOUNTING KIT: 59.9 lbs (27.2 kg)

STACKING OF RRH'S IS NOT PERMITTED. NO PAINTING OF RRU'S IS ALLOWED.

6 ERICSSON RRUS 4478



7 RAYCAP DC9-48-60-24-8C-EV SCALE: N.T.S.



CLAMP MOUNTING RANGE	TUBES	SQUARE PROFILES	90° ANGLE
MINIMUM	ø25 mm (1,0 in)	35 x 35 mm (1,4 x 1,4 in)	35 x 35 mm (1,4 x 1,4 in)
MAXIMUM	ø114 mm (4,5 in)	80 x 80 mm (3,2 x 3,2 in)	80 x 80 mm (3,2 x 3,2 in)

HOT DIP GALVANIZED STEEL BRACKET

- MATERIAL: S355MC FZV, FASTENERS 8.8 FZV OR EQUIVALENT
- MINIMUM 70 UM ZINC COATING, DESIGNED FOR >20 YEARS CORROSION-FREE
- DESIGNED TO 67 M/S WIND SPEED REQUIREMENT (150 MPH)

SUPPORTS RRUW/RRUS01, RRUS11/12, RRUS32 WITH RRUSA2 OR PSU

- SXK1091946/1 FOR FIRST RRUS & SXK109146/2 TO ADD SECOND RRUS

8 RRUS BRACKET SXK1091946/1 & SXK1091946/2 SPECIFICATION SCALE: N.T.S.



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APEX JOB No. NS22-025

AURORA SOUTH NSB
SITE NO. IL4407

1010 LEBANON STREET
AURORA, IL 60505



NO.	DATE	REVISIONS	BY	CHK	APP'D
0	05/12/23	FINAL CDs - ISSUED FOR CONSTRUCTION	YA	PB	RG
E	04/25/23	90% CDs ISSUED FOR REVIEW	YA	PB	RG
D	03/16/23	90% CDs ISSUED FOR REVIEW	YA	PB	RG
C	02/11/23	REVISED LEASE EXHIBIT/ZONING DRAWING	YA	PB	RG
B	08/23/22	REVISED LEASE EXHIBIT/ZONING DRAWING	YA	PB	RG

SCALE: AS SHOWN DESIGNED BY: DRAWN BY:

AT&T MOBILITY

EQUIPMENT SPECIFICATIONS-1

DRAWING NUMBER	REV
IL4407-A05-1	0

6

5

4

3

2

1

11 x 17 "B" SIZE

SECTOR	ANTENNA NUMBER	POLARITY/PORT	ANTENNA MODEL NUMBER	ANTENNA VENDOR	TMA/ RRU MODEL NUMBER	AZIMUTH	ANTENNA CENTERLINE FROM GROUND	ANTENNA TIP HEIGHT	ANTENNA TYPE	DC SURGE AND DISTRIBUTION	COAX/ FIBER/ DC POWER CABLES		
											COAX CABLE	OTHER CABLES	LENGTH
A	A1	700	NNH4-65B-R6H4	COMMSCOPE	(1) DB RRUS 4449 B5/B12	0°	120'-0"	123'-0"	LTE 700	(2) RAYCAP DC9-48-60-24-8C-EV	NONE	(6) #6AWG DC POWER CABLES (2) 24 PAIRS FIBER CABLES	±180'-0"
		850			(1) RRUS 4426 B66				5G 850				
		AWS							LTE/5G AWS				
	A2	5G CBAND	AIR 6449 B77D	ERICSSON	INTEGRATED WITHIN ANTENNA	0°	118'-3"	119'-6"	5G CBAND				
A3													
A4	700		NNH4-65B-R6H4	COMMSCOPE	(1) RRUS 4478 B14	0°	120'-0"	123'-0"	FNET 700				
	1900				(1) RRUS 4415 B25				LTE/5G 1900				
B	B1	700	NNH4-65B-R6H4	COMMSCOPE	(1) DB RRUS 4449 B5/B12	120°	120'-0"	123'-0"	LTE 700	(2) RAYCAP DC9-48-60-24-8C-EV	NONE	(6) #6AWG DC POWER CABLES (2) 24 PAIRS FIBER CABLES	±180'-0"
		850			(1) RRUS 4426 B66				5G 850				
		AWS							LTE/5G AWS				
	B2	5G CBAND	AIR 6449 B77D	ERICSSON	INTEGRATED WITHIN ANTENNA	120°	118'-3"	119'-6"	5G CBAND				
B3													
B4	700		NNH4-65B-R6H4	COMMSCOPE	(1) RRUS 4478 B14	120°	120'-0"	123'-0"	FNET 700				
	1900				(1) RRUS 4415 B25				LTE/5G 1900				
C	C1	700	NNH4-65B-R6H4	COMMSCOPE	(1) DB RRUS 4449 B5/B12	240°	120'-0"	123'-0"	LTE 700	(2) RAYCAP DC9-48-60-24-8C-EV	NONE	(6) #6AWG DC POWER CABLES (2) 24 PAIRS FIBER CABLES	±180'-0"
		850			(1) RRUS 4426 B66				5G 850				
		AWS							LTE/5G AWS				
	C2	5G CBAND	AIR 6449 B77D	ERICSSON	INTEGRATED WITHIN ANTENNA	240°	118'-3"	119'-6"	5G CBAND				
C3													
C4	700		NNH4-65B-R6H4	COMMSCOPE	(1) RRUS 4478 B14	240°	120'-0"	123'-0"	FNET 700				
	1900				(1) RRUS 4415 B25				LTE/5G 1900				

THIS ANTENNA MATRIX TABLE IS PREPARED BASED ON RFDS DATED 02/24/2021 REVISION # V1.0
GENERAL CONTRACTOR TO VERIFY AND INCORPORATE MOST RECENT VERSION OF RFDS PRIOR TO CONSTRUCTION.

1 ANTENNA MATRIX
NTS

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APEX JOB No. NS22-025

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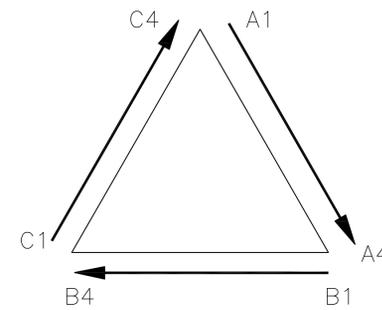


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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY:	DRAWN BY:		

AT&T MOBILITY	
ANTENNA MATRIX	
DRAWING NUMBER	REV
IL4407-A06	0

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



Your world. Delivered.

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



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.

- 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

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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY:	DRAWN BY:		

AT&T MOBILITY
COAX COLOR CODING
DRAWING NUMBER: IL4407-A07
REV: 0

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 PARENTHESSES 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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APEX JOB No. NS22-025

AURORA SOUTH NSB
SITE NO. IL4407
1010 LEBANON STREET
AURORA, IL 60505



0	05/12/23	FINAL CDs – ISSUED FOR CONSTRUCTION	YA	PB	RG
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B	08/23/22	REVISED LEASE EXHIBIT/ZONING DRAWING	YA	PB	RG
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY:	DRAWN BY:		

AT&T MOBILITY	
FIBER-OPTIC JUMPER COLOR CODING	
DRAWING NUMBER	REV
IL4407- A08	0

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
6. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
7. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
8. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
9. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
10. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
11. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"Ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
5. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
OWNER – AT&T
CONTRACTOR – MASTEC
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
OEM – ORIGINAL EQUIPMENT MANUFACTURER
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/OWNER.
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 SCALE 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. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE OWNER.
8. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING.
9. 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 CONTRACTOR/OWNER.
10. 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.
11. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
12. PRIOR TO START OF CONSTRUCTION, SUBCONTRACTOR SHALL SURVEY THE CONDITION IN ALL AREAS WHERE NEW CONSTRUCTION WILL BE CARRIED OUT. ANY EXISTING DEFECTS DISCOVERED SHALL BE REPORTED IMMEDIATELY TO THE BUILDING OWNER AND PROJECT MANAGER.
13. SUBCONTRACTOR SHALL PROTECT ALL EXISTING ROOF INSTALLATIONS INCLUDING ALL MECHANICAL FASTENING THROUGHOUT ENTIRE CONSTRUCTION DURATION. REPAIR ALL DAMAGES AS REQUIRED.
14. SUBCONTRACTOR SHALL ENSURE THAT ALL ROOF DRAINS WILL NOT BE OBSTRUCTED THROUGHOUT THE ENTIRE CONSTRUCTION DURATION.
15. RE-CERTIFICATION OF EXISTING ROOF WARRANTIES IS PART OF THE WORKSCOPE OF THIS PROJECT. SUBCONTRACTOR SHALL VERIFY WITH BUILDING OWNER REGARDING VALIDITY OF EXISTING ROOF WARRANTIES AND WORK WITH EXISTING ROOF MANUFACTURER TO REACTIVATE ANY EXISTING WARRANTIES THAT WOULD OTHERWISE BE VOIDED BY NEW CONSTRUCTION.

CONCRETE AND REINFORCING STEEL NOTES:

- 1.0 ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- 2.0 ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
- 3.0 REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- 4.0 THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH.....3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER2 IN.
#5 AND SMALLER & WWF1 ½ IN.

CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL3/4 IN.
BEAMS AND COLUMNS1 ½ IN.
- 5.0 A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- 6.0 INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY HILTI OR APPROVED EQUAL.

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C
B
A



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SITE NO. IL4407

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AT&T MOBILITY

CONSTRUCTION NOTES

DRAWING NUMBER	REV
IL4407 – A09	0

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11 x 17 "B" SIZE

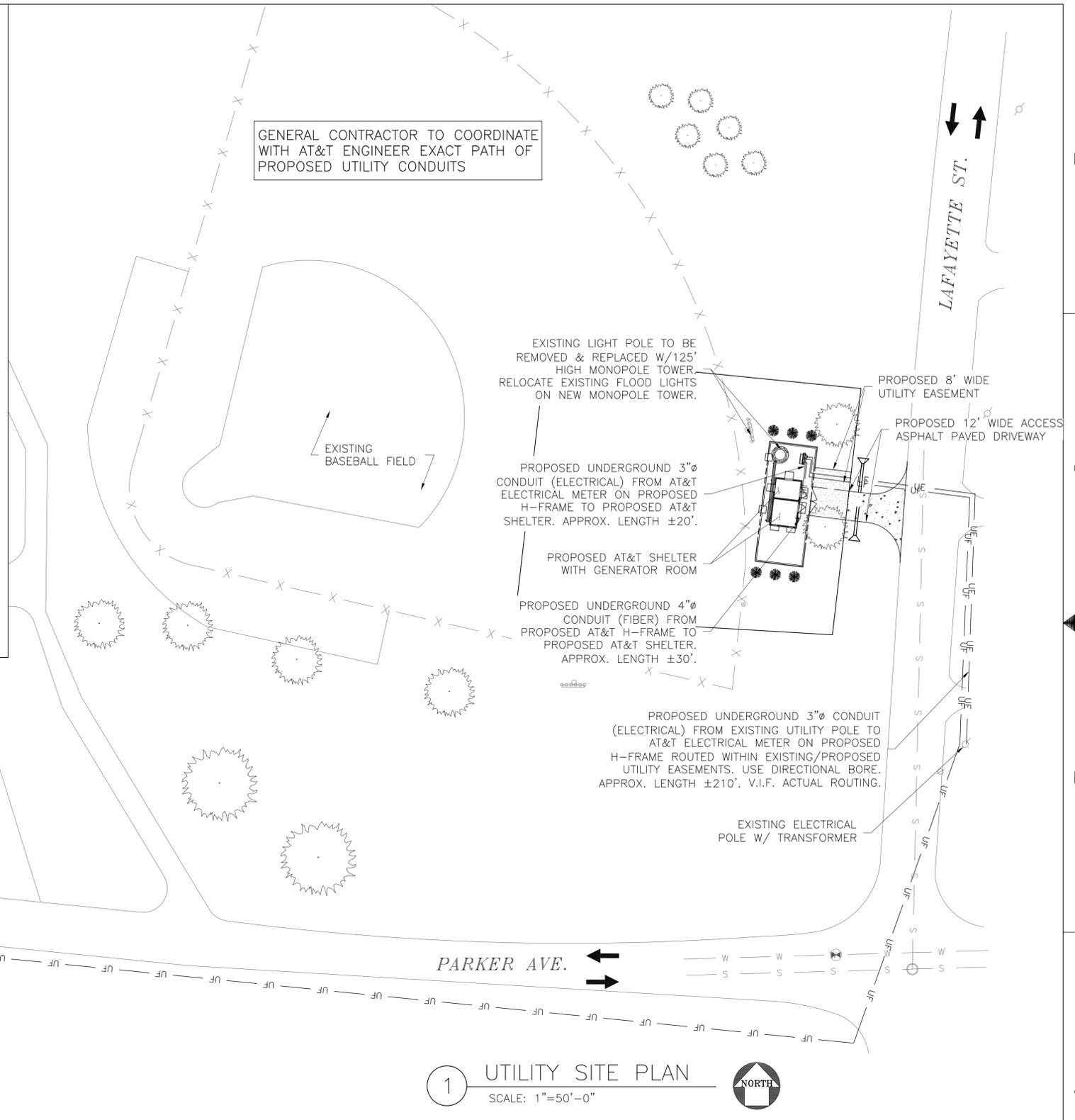
NOTE:
 SCALE NOTED APPLIES TO 11"x17" SHEET SIZE.
 IF PRINT SIZE IS 24"x36", THEN ACTUAL SCALE
 IS DOUBLE OF SCALE NOTED.
 (EXAMPLE: 1/4"=1'-0" BECOMES
 1/2"=1'-0" ON 22"x34" PRINTED AREA OF
 SHEET SIZE 24"x36").
 THIS NOTE APPLIES TO ALL DRAWING SHEETS.



EXISTING FIBER SOURCE



EXISTING UTILITY POLE W/
 TRANSFORMER



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AT&T MOBILITY	
UTILITY PLAN & ELECTRICAL DETAILS	
DRAWING NUMBER	REV
IL4407-E01	0

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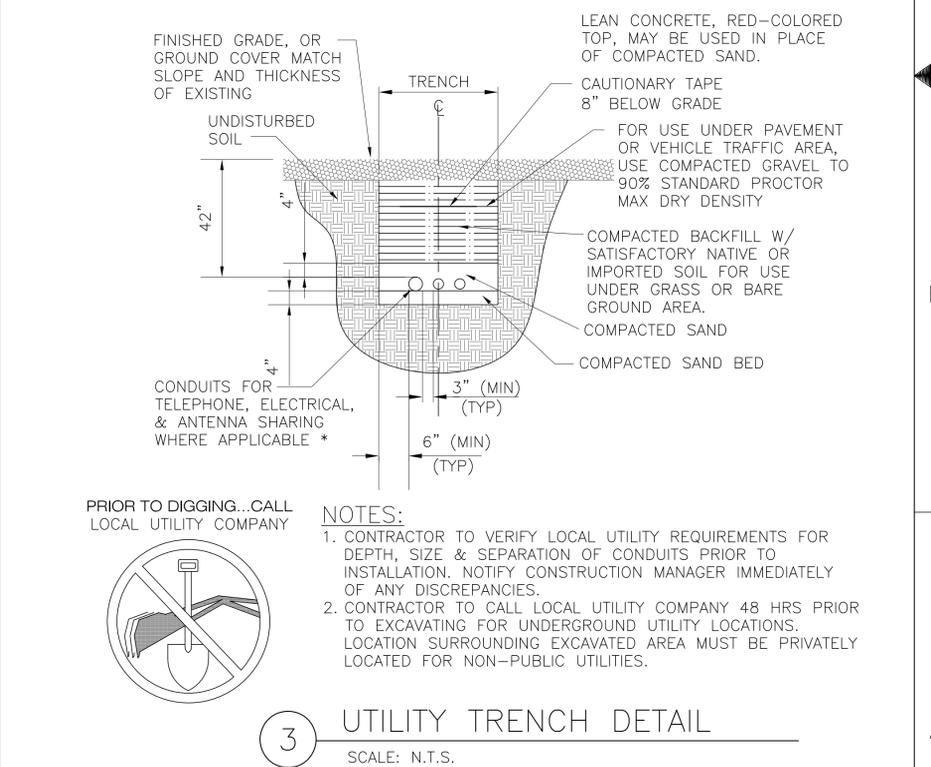
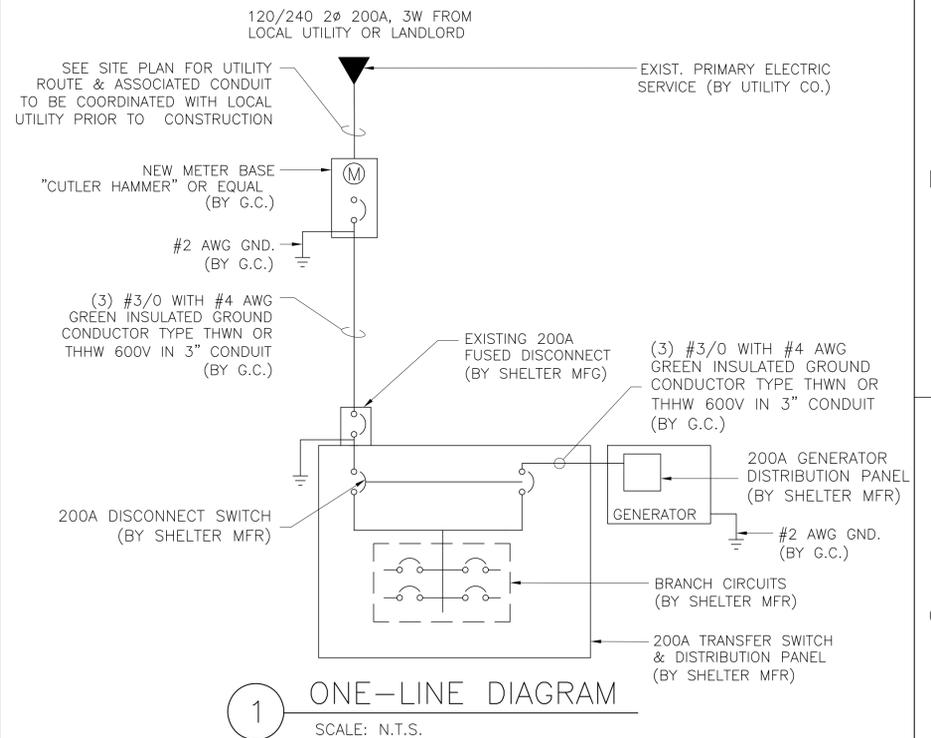
11 x 17" B SIZE

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.

ELECTRICAL INSTALLATION NOTES (CONT.):

- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR BETTER) OUTDOORS
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) BETTER INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR/OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.



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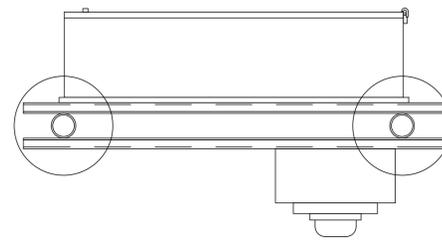
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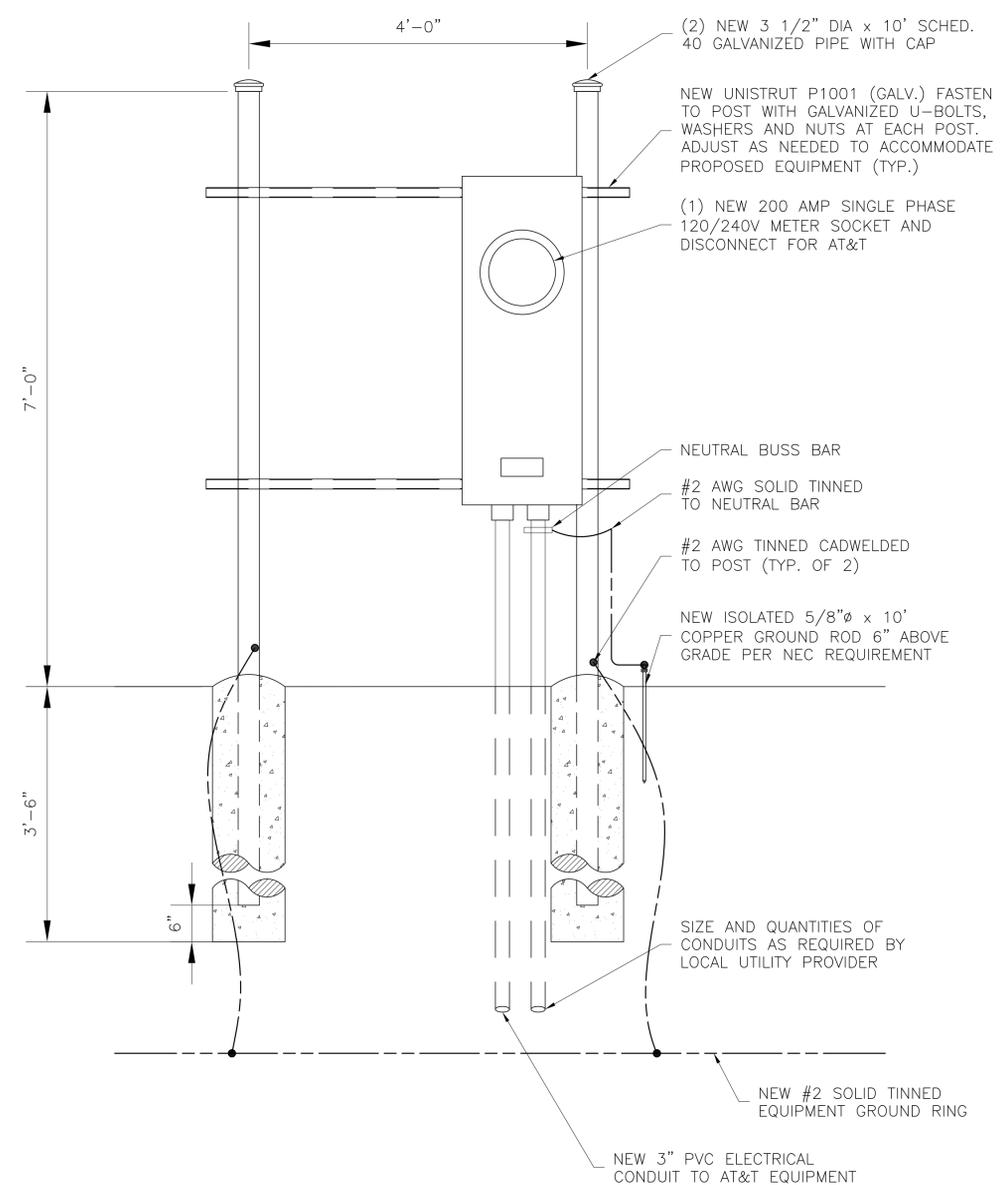
AT&T

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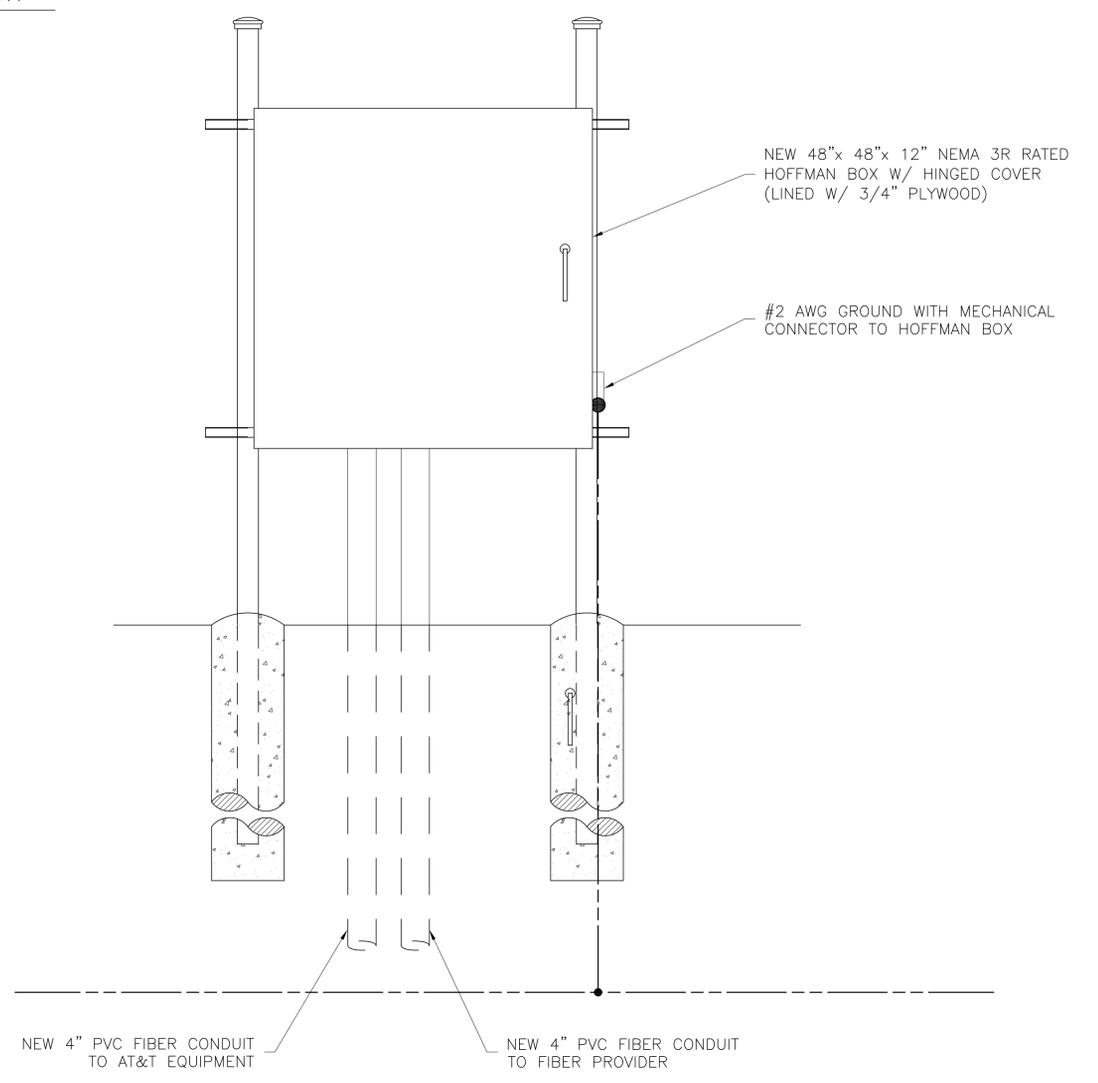
AT&T MOBILITY
ELECTRICAL NOTES & DETAILS
DRAWING NUMBER: IL4407-E02
REV: 0



PLAN VIEW



FRONT VIEW



REAR VIEW

1 UTILITY RACK DETAILS
SCALE: N.T.S.

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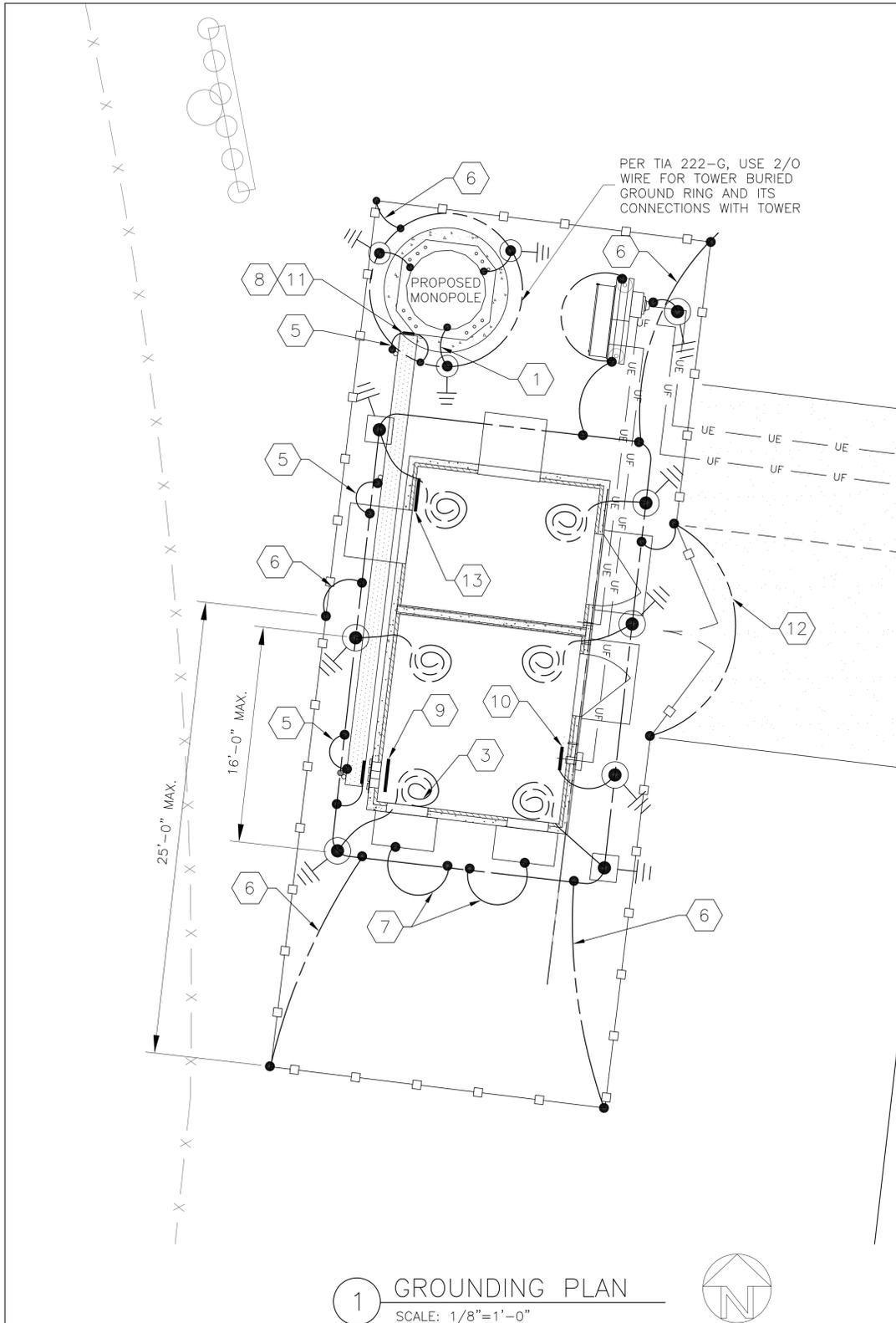
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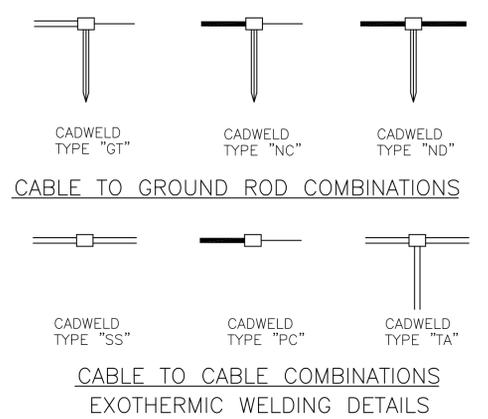
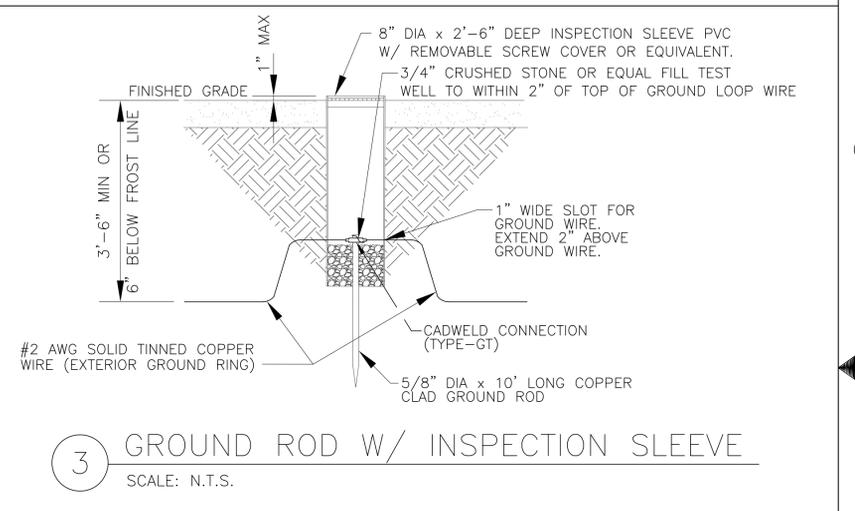
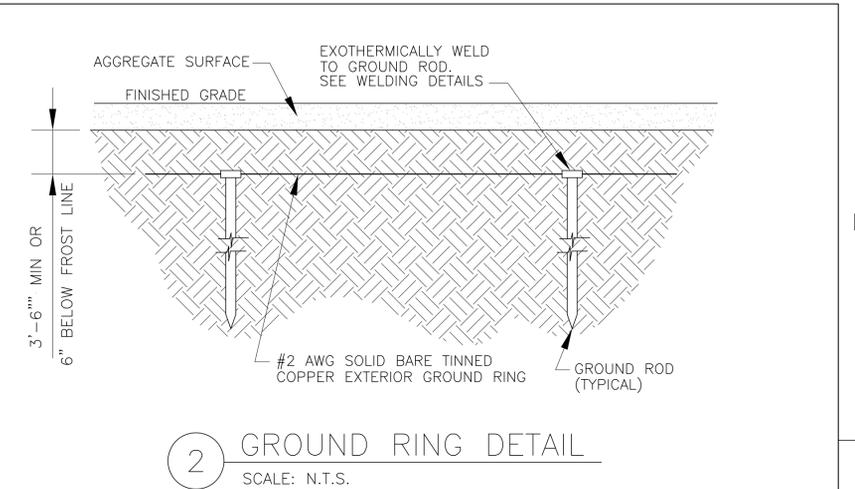


GROUNDING LEGEND	
SYMBOL	DESCRIPTION
	5/8" x 10' COPPER CLAD STEEL GROUND ROD
	5/8" x 10' COPPER CLAD STEEL GROUND ROD WITH INSPECTION SLEEVE
	EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
	EXOTHERMIC WELD (CADWELD) WITH INSPECTION SLEEVE

GROUNDING NOTES:

- TOWER GROUNDING:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO PROPOSED TOWER AND MAKE EXOTHERMIC CONNECTION.
- HATCHPLATE GROUND BAR:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING UP TO THE HATCHPLATE GROUND BAR AND MAKE A MECHANICAL CONNECTION.
- GROUNDING OF INTERNAL GROUND RING:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING THROUGH 1" DIA. PVC SLEEVE INTO EQUIPMENT SHELTER FOR CONNECTION TO INTERIOR HALO GROUND RING. TYPICAL AT 4 BUILDING CORNERS.
- GROUND ROD:** COPPERCLAD STEEL, 5/8" DIA. TEN (10) FEET LONG.
- ICE BRIDGE SUPPORT POST GROUNDING:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO ALL ICE BRIDGE SUPPORT POSTS AND EXOTHERMICALLY WELD.
- FENCE GROUNDING:** IF FENCE IS WITHIN 6' OF GROUND RING, EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO FENCE CORNER POSTS AND EXOTHERMICALLY WELD. BOND INTERMEDIATE POST IF REQUIRED TO MAINTAIN 25' MAX SPACING.
- HVAC GROUNDING:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO THE HVAC UNIT AND MAKE A MECHANICAL CONNECTION.
- TOWER GROUND BAR:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING UP TO THE TOWER GROUND BAR AND MAKE A MECHANICAL CONNECTION. SECURE GROUND BAR DIRECTLY TO TOWER WITH STAINLESS STEEL MOUNTING MATERIAL.
- CELL REFERENCE GROUND BAR:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING UP TO THE CELL REFERENCE GROUND BAR (INSIDE SHELTER) AND MAKE A MECHANICAL CONNECTION.
- TELCO/FIBER GROUND BAR:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING UP TO TELCO GROUND BAR (INSIDE SHELTER) AND MAKE A MECHANICAL CONNECTION.
- ANTENNA GROUND BAR:** MOUNT GROUND BAR DIRECTLY TO TOWER AT TOP OF COAX RUNS. SECURE TO TOWER WITH STAINLESS STEEL MOUNTING MATERIAL.
- GATE GROUNDING:** EXTEND #2 TINNED CU WIRE FROM BURIED GROUND RING TO GATE POSTS AND EXOTHERMICALLY WELD.
- GENERATOR GROUNDING:** EXTEND #2 AWG SOLID BARE TINNED COPPER GROUND WIRE TO SHELTER GROUND RING. GROUND GENERATOR AND BASE TANK PER MANUFACTURER'S RECOMMENDATIONS.

NOTE:
SCALE NOTED APPLIES TO 11"x17" SHEET SIZE.
IF PRINT SIZE IS 24"x36", THEN ACTUAL SCALE IS DOUBLE OF SCALE NOTED.
(EXAMPLE: 1/4"=1'-0" BECOMES 1/2"=1'-0" ON 22"x34" PRINTED AREA OF SHEET SIZE 24"x36").
THIS NOTE APPLIES TO ALL DRAWING SHEETS.



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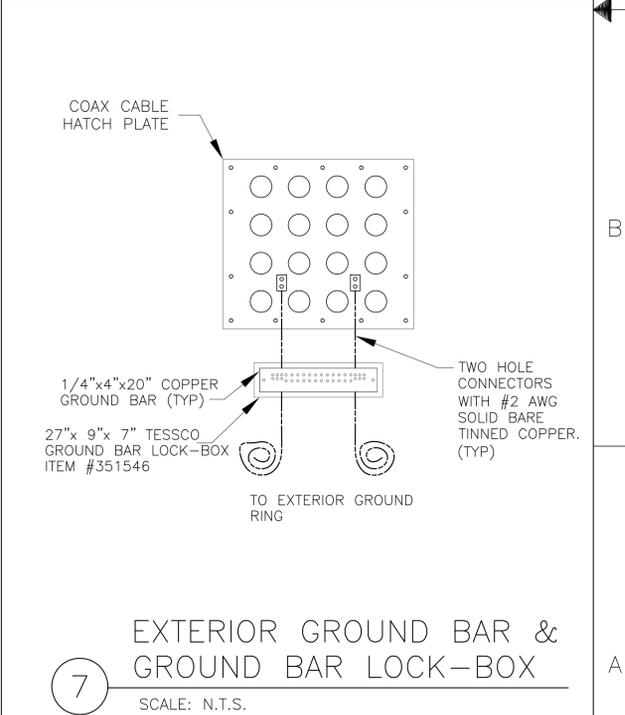
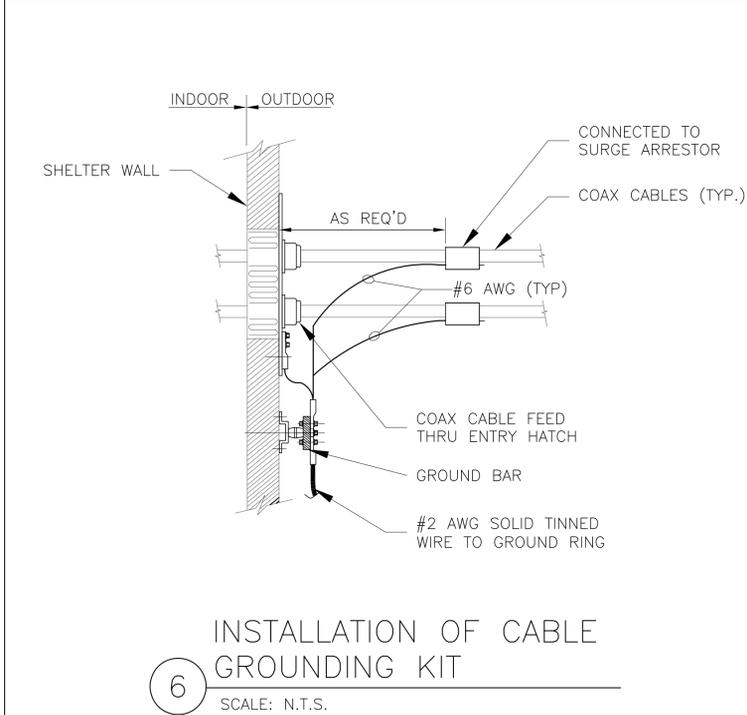
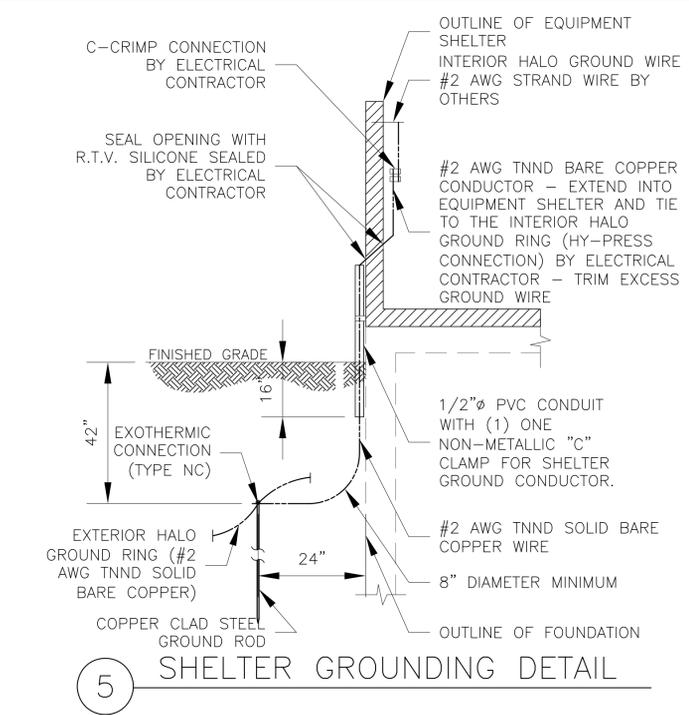
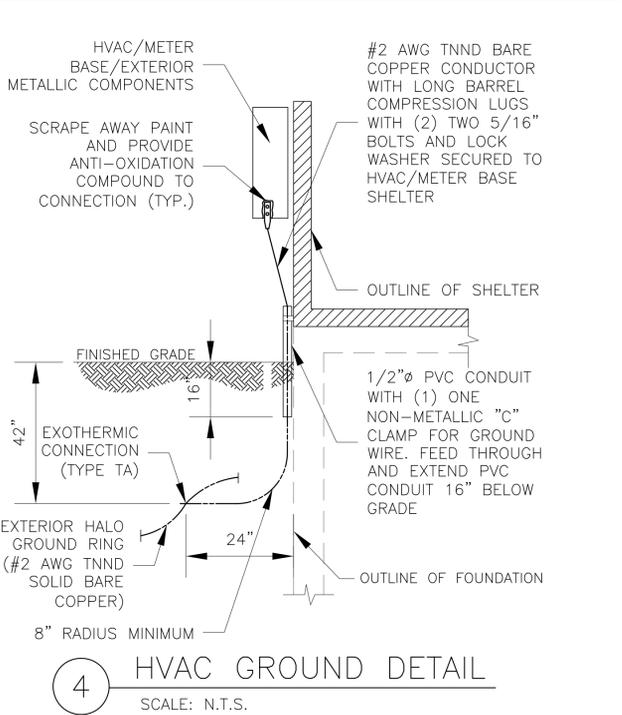
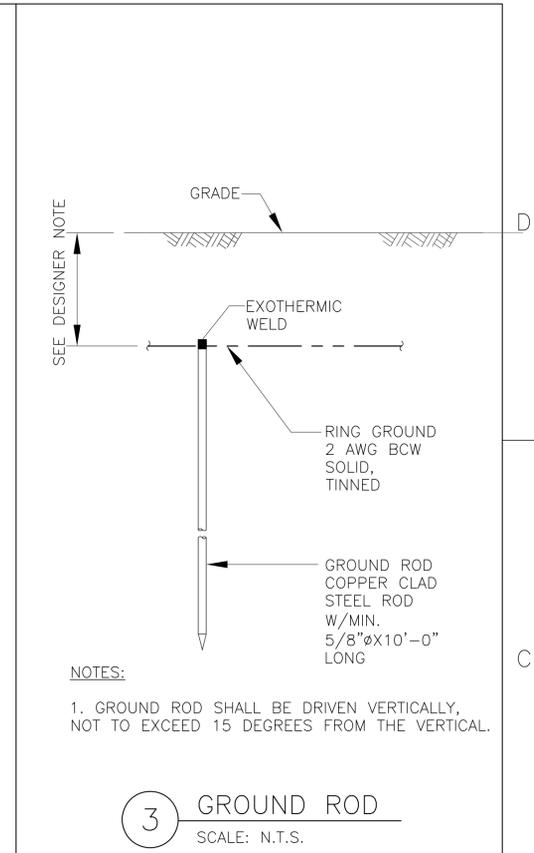
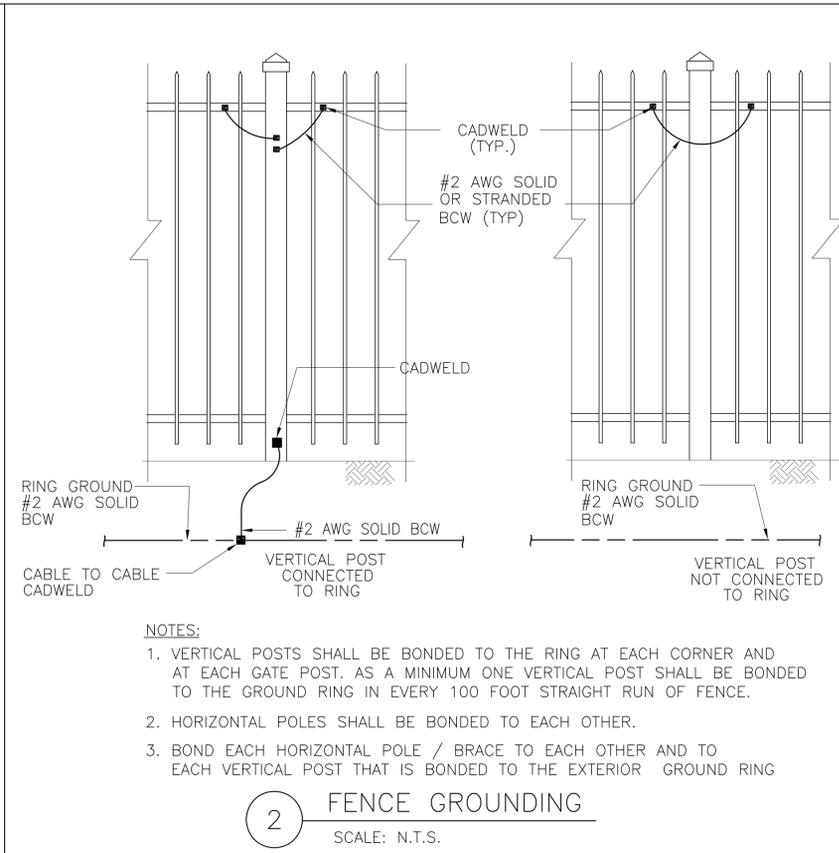
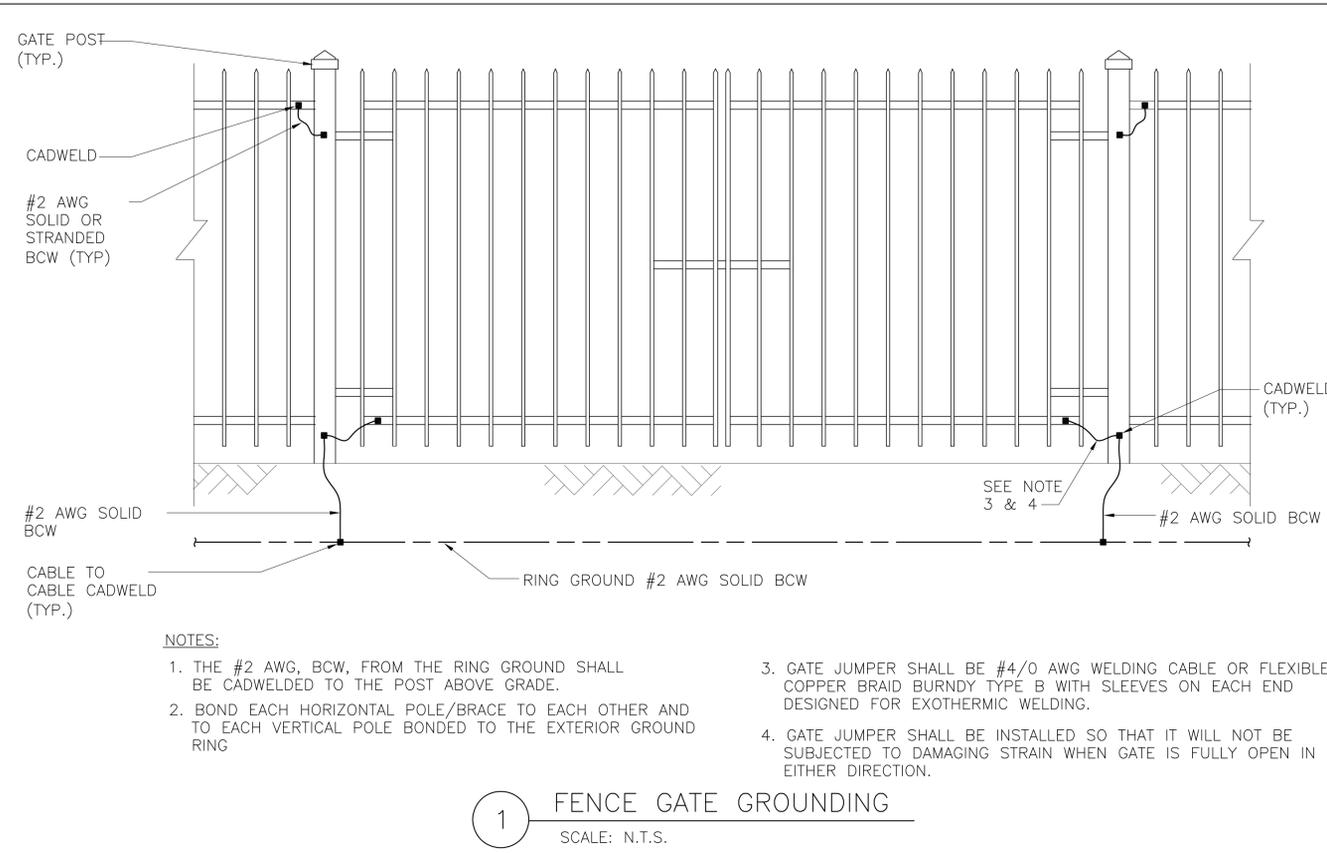
AURORA SOUTH NSB
SITE NO. IL4407
1010 LEBANON STREET
AURORA, IL 60505



NO.	DATE	REVISIONS	BY	CHK	APP'D
0	05/12/23	FINAL CDs - ISSUED FOR CONSTRUCTION	YA	PB	RG
E	04/25/23	90% CDs ISSUED FOR REVIEW	YA	PB	RG
D	03/16/23	90% CDs ISSUED FOR REVIEW	YA	PB	RG
C	02/11/23	REVISED LEASE EXHIBIT/ZONING DRAWING	YA	PB	RG
B	08/23/22	REVISED LEASE EXHIBIT/ZONING DRAWING	YA	PB	RG

SCALE: AS SHOWN DESIGNED BY: DRAWN BY:

AT&T MOBILITY	
GROUNDING PLAN & DETAILS	
DRAWING NUMBER	REV
IL4407-G01	0



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AT&T MOBILITY	
FENCE GROUNDING & DETAILS	
DRAWING NUMBER	REV
IL4407-G03	0

NOTE:
DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMES, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED, HOWEVER DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN

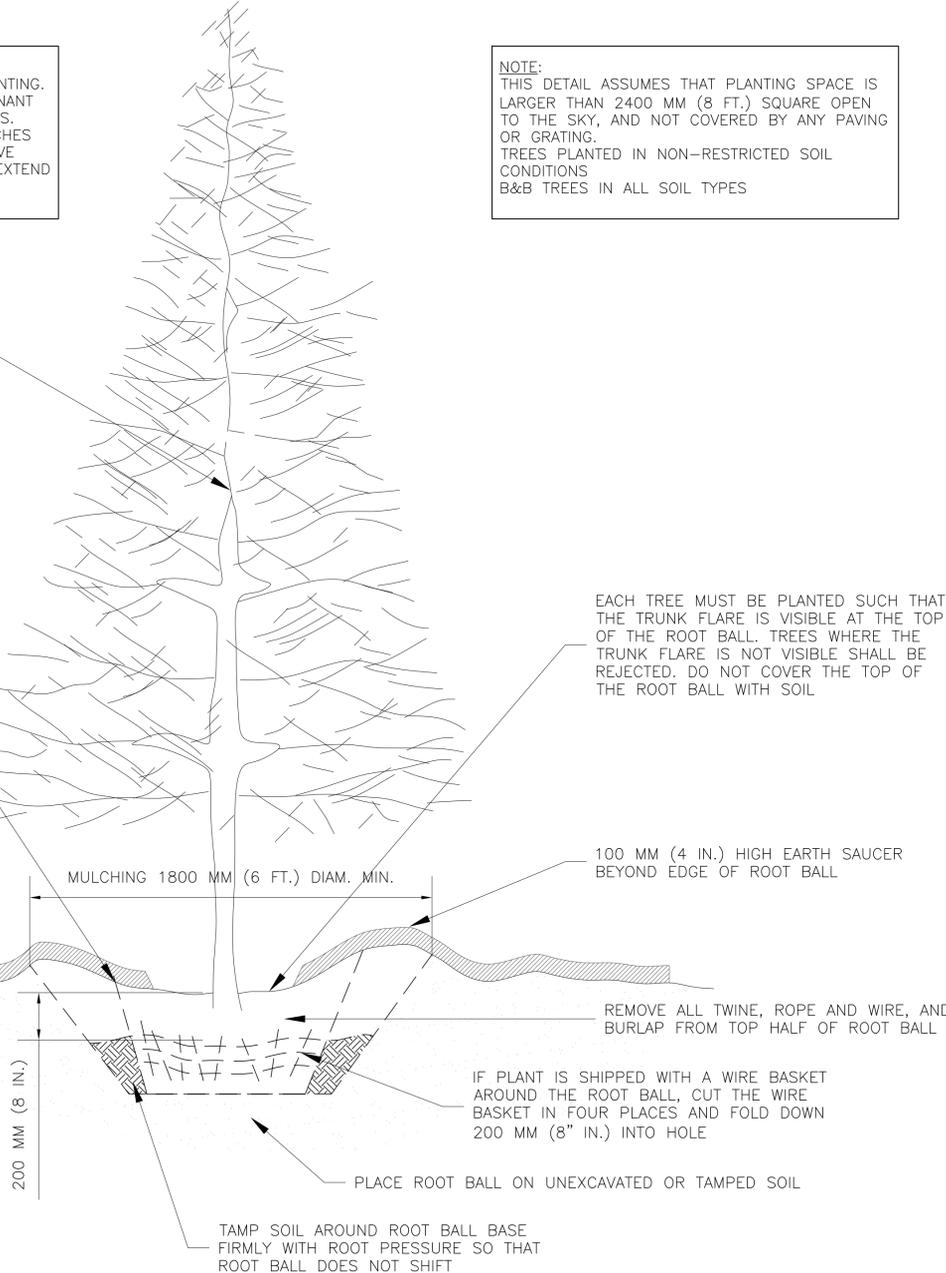
NOTE:
THIS DETAIL ASSUMES THAT PLANTING SPACE IS LARGER THAN 2400 MM (8 FT.) SQUARE OPEN TO THE SKY, AND NOT COVERED BY ANY PAVING OR GRATING.
TREES PLANTED IN NON-RESTRICTED SOIL CONDITIONS
B&B TREES IN ALL SOIL TYPES

MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHEN EVER POSSIBLE

SET TOP OF ROOT BALL FLUSH TO GRADE OR 25-50 MM (1-2 IN.) HIGHER IN SLOWLY DRAINING SOILS

50 MM (2 IN.) MULCH. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK MAINTAIN THE MULCH WEED-FREE FOR A MINIMUM OF THREE YEARS AFTER PLATING

NOTE: FOR DIMENSIONS OF PLATING AREAS TYPES OF SOIL AMENDMENTS OR SOIL REPLACEMENT SEE "SOIL IMPROVEMENT DETAILS"



EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL

100 MM (4 IN.) HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL

REMOVE ALL TWINE, ROPE AND WIRE, AND BURLAP FROM TOP HALF OF ROOT BALL

IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN 200 MM (8" IN.) INTO HOLE

PLACE ROOT BALL ON UNEXCAVATED OR TAMPED SOIL

TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH ROOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT

PLANTING SCHEDULE
COMMON NAME: EMERALD GREEN ARBORVITAE
SCIENTIFIC NAME: THUJA OCCIDENTALIS
OF TREES: 6

NOTE:
PLANT CONTAINER OR BALLED-AND-BURLAPED PLANTS IN SPRING OR FALL
PLANT ON A RAISED BED TO ENSURE GOOD DRAINAGE
ALL EXPOSED AREAS SHALL BE PROTECTED AGAINST WASHOUTS AND SOIL EROSION

1 TREE PLANTING DIAGRAM

GENERAL NOTES

1. PLANT MATERIAL SHALL BE NURSERY GROWN AND BE BALLED AND BURLAPPED OR CONTAINER GROWN. SIZES AND SPREADS ON PLANT LIST REPRESENT MINIMUM REQUIREMENTS.
2. SIZE AND GRADING STANDARDS OF PLANT MATERIALS SHALL CONFORM TO THE LATEST ADDITION OF ANSI Z60.1 AMERICAN STANDARD OF NURSERY STOCK, BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
3. ANY MATERIALS WITH DAMAGED OR CROOKED/ DISFIGURED LEADER, BARK ABRASION, SUNSCALD, INSECT DAMAGE, ETC. ARE NOT ACCEPTABLE AND WILL BE REJECTED.
4. GRADING SHALL PROVIDE SLOPES WHICH ARE SMOOTH AND CONTINUOUS. POSITIVE DRAINAGE SHOULD BE PROVIDED IN ALL AREAS.
5. ALL PLANT SPECIES SPECIFIED ARE SUBJECT TO AVAILABILITY. MATERIAL SHORTAGES IN THE LANDSCAPE INDUSTRY MAY REQUIRE SUBSTITUTIONS.
6. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING. CALL UTILITY ALERT NETWORK PRIOR TO DIGGING.
7. CONTRACTOR SHALL REPORT ANY DISCREPANCIES.
8. PLANT SYMBOLS ILLUSTRATED ON THE LANDSCAPE PLAN ARE A GRAPHIC REPRESENTATION OF PROPOSED PLANT MATERIAL TYPES AND ARE INTENDED TO PROVIDE FOR VISUAL CLARITY. HOWEVER, THE SYMBOLS DO NOT NECESSARILY REPRESENT ACTUAL PLANT SPREAD AT THE TIME OF INSTALLATION.
9. ALL PLANTING BEDS SHALL BE MULCHED WITH A MINIMUM OF 3" OF SHREDDED WOOD MULCH, WITH THE EXCEPTION OF EVERGREEN TREES WHICH SHALL RECEIVE 1" OF SHREDDED HARDWOOD MULCH OVER 2" OF SOUTHERN PINE BARK.
10. SOD SHALL BE MINERAL BASE ONLY.
11. ALL PLANTS MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF ACCEPTANCE.

D
C
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A



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LANDSCAPE IMPLEMENTATION PLAN

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11 x 17" B SIZE