



**CITY OF CAMPBELL**  
**Community Development Department**

June 3, 2016

**NOTICE OF PUBLIC HEARING**

Notice is hereby given that the Planning Commission of the City of Campbell has set the time of 7:30 p.m., or shortly thereafter, on Tuesday, **June 14, 2016**, in the City Hall Council Chambers, 70 North First Street, Campbell, California, for a Public Hearing to consider the application of Mackenzie Edwards for a Modification (PLN2015-386) to a previously approved Conditional Use Permit to allow for the expansion of an existing wireless facility (T-Mobile) installation on the roof of property located at **700 W. Hamilton Avenue**. Staff is recommending that this project be deemed Categorical Exempt under CEQA.

Interested persons may appear and be heard at this hearing. Please be advised that if you challenge the nature of the above project in court, you may be limited to raising only those issues you or someone else raised at the Public Hearing described in this Notice, or in written correspondence delivered to the City of Campbell Planning Commission at, or prior to, the Public Hearing. Questions may be addressed to the Community Development Department at (408) 866-2140.

Plans and architectural drawings may be viewed at the Planning Division office during normal business hours (8:00 a.m. – 5:00 p.m.) and on the City's 'Public Notices' web page (<http://www.cityofcampbell.com/501/Public-Notices>) under 'Planning Commission'.

Decisions of the Planning Commission may be appealed to the City Council. Appeals must be submitted to the City Clerk in writing within 10 calendar days of an action by the Commission.

In compliance with the Americans with Disabilities Act, listening assistive devices are available for all meetings held in the Council Chambers. If you require accommodation, please contact the Community Development Department at (408) 866-2140, at least one week in advance of the meeting.

PLANNING COMMISSION  
CITY OF CAMPBELL  
PAUL KERMOYAN  
SECRETARY

PLEASE NOTE: When calling about this Notice,  
please refer to: **700 W. Hamilton Avenue**

# Project Location Map

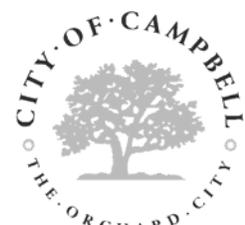
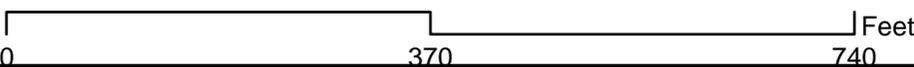


**Project Location:** 700 W. Hamilton Avenue

**Application Type:** Modification

**Planning File No.:** PLN2015-386

**Description:** To allow for the expansion of an existing wireless facility (T-Mobile) located on the roof.



Community Development Department  
Planning Division



T-MOBILE WEST CORPORATION, a DELAWARE CORPORATION  
SAN FRANCISCO AREA NEW SITE DEVELOPMENT

1855 GATEWAY BLVD., 9TH FLOOR, CONCORD, CA 94520

# SF04611A

## SF611 SANTOMAS PARK

700 W HAMILTON AVE  
CAMPBELL, CA 95008



**T-Mobile**  
T-MOBILE WEST LLC,  
a DELAWARE CORPORATION  
SAN FRANCISCO AREA  
NEW SITE DEVELOPMENT  
1855 GATEWAY BLVD, 9TH FLOOR  
CONCORD, CA 94520  
(925) - 521 - 5597

**PROJECT INFORMATION:**  
**SF04611A**  
**SF611 SANTOMAS PARK**  
700 W HAMILTON AVE  
CAMPBELL, CA 95008  
CITY OF CAMPBELL

**CURRENT ISSUE DATE:**  
**04/25/16**

**ISSUED FOR:**  
**PLAN CHECK COMMENTS**

REV	DATE	DESCRIPTION	BY
0	04/30/15	90% CD SUBMITTAL	E.D.F.
1	05/26/15	100% CD SUBMITTAL	JVM
2	04/25/16	PLAN CHECK COMMENTS	JVM

**PROJECT ARCHITECT / ENGINEER:**  
**Borges** ARCHITECTURAL GROUP  
ARCHITECTURE  
PLANNING  
INTERIORS  
1419 STONE POINT DRIVE  
ROSELILLE, CA 95068  
PH: 916 782 7200  
FX: 916 773 3037  
BORGESARCH.COM

**CONSULTANT:**  
**FORZA** TELECOM, Inc.  
1330 North Broadway  
Suite 202  
Walnut Creek, CA 94596

**DRAWN BY:** JVM **CHK:** B.K.W. **APV.:** B.K.W.

**LICENSER:**  
LICENSED ARCHITECT  
VINOD MANOHARAN  
No. C11535  
Exp. 09-30-17  
STATE OF CALIFORNIA

**SHEET TITLE:**  
**TITLE SHEET**

**SHEET NUMBER:**  
**T-1**

**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 THESE CODES.  
1. CALIFORNIA ADMINISTRATIVE CODES (INCL. TITLES 24 & 25) 2013  
2. CALIFORNIA BUILDING CODE 2013  
3. CALIFORNIA ELECTRICAL CODE 2013  
4. CALIFORNIA MECHANICAL CODE 2013  
5. CALIFORNIA PLUMBING CODE 2013  
6. CALIFORNIA FIRE CODE 2013  
7. LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE.  
8. CITY / COUNTY ORDINANCES  
ALONG WITH ANY OTHER APPLICABLE LOCAL AND STATE LAWS AND REGULATIONS  
**HANDICAP REQUIREMENTS**  
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, ACCESSIBILITY ACCESS AND REQUIREMENTS ARE NOT REQUIRED, IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CODE OF REGULATIONS, TITLE 24, PART 2, VOLUME 1, CHAPTER 11B, DIVISION 2, SECTION 11B-203.5

**PROJECT DESCRIPTION**  
THIS IS AN APPLICATION SET OF DRAWINGS TO MODIFY AN UNMANNED T-MOBILE SERVICES FACILITY TO ADD (3) L700 ANTENNA AND ASSOCIATED EQUIPMENT TO THE EXISTING SITE.  
**PROJECT TYPE:**  EQUIPMENT MODIFICATION  CO-LOCATION  RAWLAND  TENANT IMPROVEMENT  
**EQUIPMENT LOCATION:**  OUTDOOR  INDOOR  ROOFTOP  PRE-FABRICATED EQUIPMENT SHELTER  
**ANTENNA LOCATION:**  MONOPOLE  ROOFTOP  GUYED TOWER  LATTICE TOWER  ANTENNA POLE  FLAG POLE  
**NUMBER OF ANTENNAS:** (9) ANTENNAS, (6) DTMA, (3) DIPLEXERS & (3) RRU  
**NUMBER OF CABINETS:** (1) RADIO EQUIPMENT IN (E) LTE CABINET

**DRIVING DIRECTIONS**  
FROM T-MOBILE OFFICE: CONCORD, CA  
1. Head southeast on Gateway Blvd  
2. Turn right onto Clayton Rd  
3. Take ramp onto CA-242 S toward Oakland  
4. Take the exit toward Oakland/San Jose onto I-680 S (Sinclair Fwy)  
5. Take exit 12 toward Warm Springs District onto CA-262 (Mission Blvd)  
6. Take left ramp onto I-880 S (Nimitz Fwy) toward San Jose  
7. Continue on CA-17  
8. Take exit 25 toward Hamilton Ave onto E Hamilton Ave  
9. Make a U-Turn at Darryl Dr onto W Hamilton Ave  
10. Arrive at W Hamilton Ave.  
Your destination is on the right

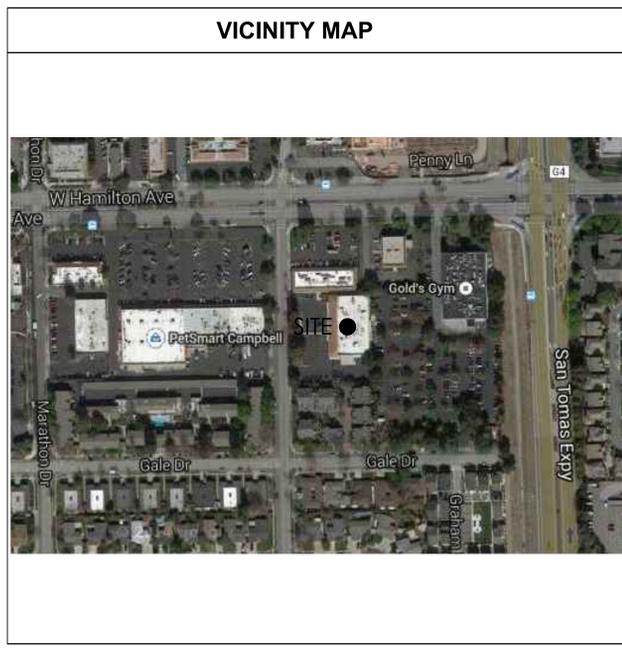
**SHEET INDEX**

SHEET	DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
A-1	OVERALL SITE PLAN
A-2	ENLARGED PLANS
A-3.1	ELEVATIONS
A-3.2	ELEVATIONS
A-3.3	ELEVATIONS
A-4	DETAILS
E-1	ELECTRICAL DETAILS
G-1	GROUNDING PLAN & NOTES

**PROJECT TEAM**  
**Architect:** BORGES ARCHITECTURAL GROUP, INC. 1478 STONE POINT DRIVE, SUITE 350 ROSELILLE, CA 95661 contact: BRIAN K. WINSLOW email: BRIAN@BORGESARCH.COM ph: (916) 782-7200 fax: (916) 773-3037  
**Applicant / Lessee:** T-MOBILE 1855 GATEWAY BLVD., 9TH FLOOR CONCORD, CA 94520 contact: RYAN WUNSCH email: RYAN.WUNSCH1@T-MOBILE.COM cell: (916) 670-0974  
**Site Aquisition:** FORZATELECOM 1330 NORTH BROADWAY, SUITE 202 WALNUT CREEK, CA 94596 contact: CHRIS COONES email: CHRISCOONES@FORZATELECOM.COM cell: (916) 716-1416  
**Zoning Manager:** FORZATELECOM 1330 NORTH BROADWAY, SUITE 202 WALNUT CREEK, CA 94596 contact: CHRIS COONES email: CHRISCOONES@FORZATELECOM.COM cell: (916) 716-1416  
**RF Engineer:** T-MOBILE 1855 GATEWAY BLVD., 9TH FLOOR CONCORD, CA 94520 contact: JOE PHAN e-mail: JOE.PHAN3@T-MOBILE.COM  
**Construction Manager:** T-MOBILE 1855 GATEWAY BLVD., 9TH FLOOR CONCORD, CA 94520 contact: VINOD MANOHARAN email: VINOD.MANOHARAN2@T-MOBILE.COM ph: (510) 684-4297

**PROJECT INFORMATION**  
Site Address: 700 W HAMILTON AVE CAMPBELL, CA 95008 Property Owner: SCOTT M COOLEY 15900 KENNEDY ROAD LOS GATES, CA 95032  
A.P.N. Number: 307-39-035  
Latitude: 37°17'36.996"N  
Longitude: -121°57'41.2992"W  
Elevation: +/- '  
Current Zoning: C-2-S  
Jurisdiction: CITY OF CAMPBELL  
Telephone: AT&T  
Power: PG&E

**POWER ORDER**  
POWER APPLICATION DATE: \_\_\_\_\_  
POWER APPLICATION NUMBER: \_\_\_\_\_



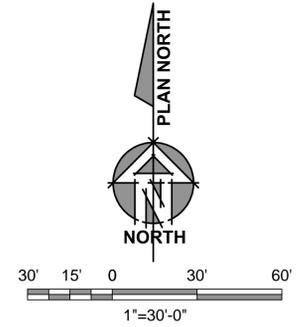
**T-MOBILE APPROVALS**  
LANDLORD: \_\_\_\_\_  
CONSTRUCTION MANAGER: \_\_\_\_\_  
RF ENGINEER: \_\_\_\_\_  
SITE ACQUISITION MANAGER: \_\_\_\_\_  
ZONING MANAGER: \_\_\_\_\_  
UTILITY COORDINATOR: \_\_\_\_\_  
NETWORK OPERATIONS MANAGER: \_\_\_\_\_  
PROGRAM REGIONAL MANAGER: \_\_\_\_\_

Plot Date: 4/25/2016 11:51:07 AM File Name: T-Mobile SF04611A\_SF611 SANTOMAS PARK Building AV1.dwg Plotter: HP DesignJet 5000PS

Job No.: T-15004-08



Plot Date: 4/25/2016 9:27:45 AM File Name: 1301151115004\_Forza\_1-MobileSF04611A\_SF04611A\_Santomas Park (Sheet) Building A-A-1 - Overall Site Plan.dwg Plotted By: John MacDonnell



**THIS IS NOT A SITE SURVEY**  
 ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.

**17** OVERALL SITE PLAN  
 1" = 30'

**T-Mobile**  
 T-MOBILE WEST LLC,  
 a DELAWARE CORPORATION  
 SAN FRANCISCO AREA  
 NEW SITE DEVELOPMENT  
 1855 GATEWAY BLVD, 9TH FLOOR  
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1	05/26/15	100% CD SUBMITTAL	JVM
2	04/25/16	PLAN CHECK COMMENTS	JVM

**PROJECT ARCHITECT / ENGINEER:**  
  
**Borges**  
 ARCHITECTURE  
 PLANNING  
 INTERIORS  
1419 STONE POINT DRIVE SUITE 300  
 ROSELVILLE CA 95668  
 P: 916 782 7200  
 F: 916 773 3037  
 BORGESARCH.COM

**CONSULTANT:**  
  
**FORZA TELECOM, Inc.**  
 1330 North Broadway  
 Suite 202  
 Walnut Creek, CA 94596

**DRAWN BY:** JVM    **CHK.:** B.K.W.    **APV.:** B.K.W.

**LICENSER:**  
  
 ENRICO SABUCETTI  
 No. C11535  
 Exp. 09-30-17  
 STATE OF CALIFORNIA

**SHEET TITLE:**  
 OVERALL SITE PLAN  
**SHEET NUMBER:**

**A-1**

Job No.: T-15004-08



**PROJECT INFORMATION:**

**SF04611A**

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CAMPBELL, CA 95008  
CITY OF CAMPBELL

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ARCHITECTURE  
PLANNING  
INTERIORS  
1419 STONE POINT DRIVE SUITE 300  
ROSELVILLE CA 95667  
TEL: 916.782.7200  
F: 916.773.3037  
BORGESARCH.COM

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1330 North Broadway  
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Walnut Creek, CA 94596

**DRAWN BY: CHK.: APV.:**

JVM B.K.W. B.K.W.

**LICENSER:**

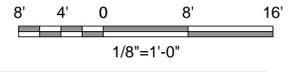
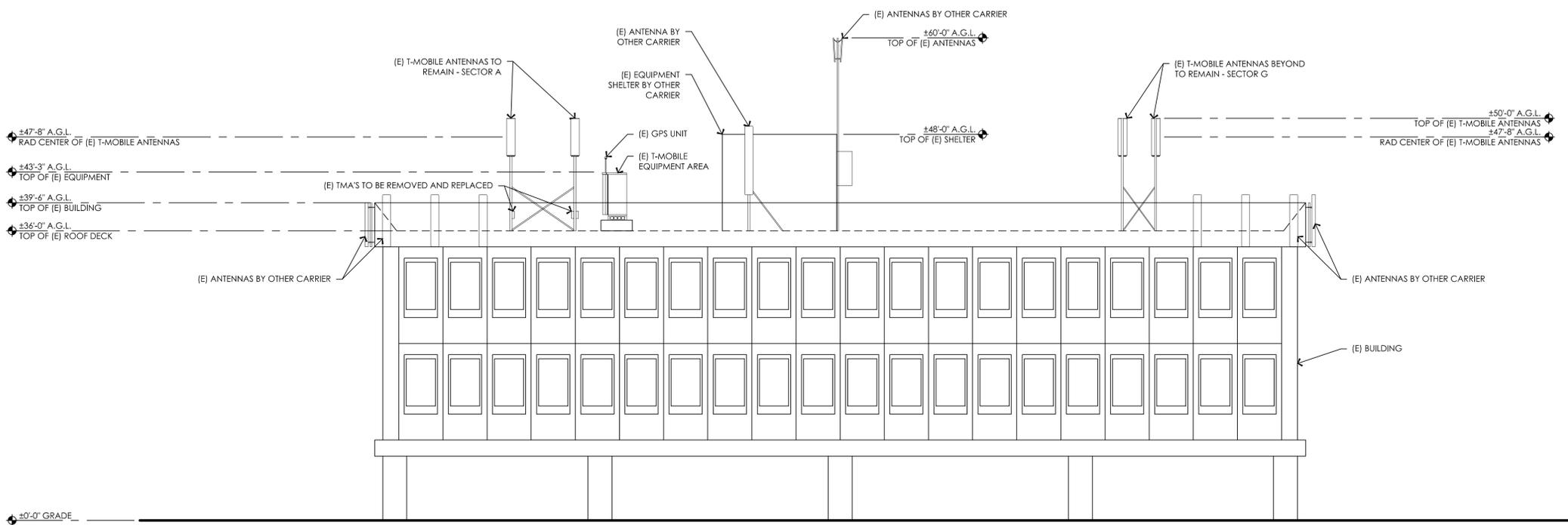


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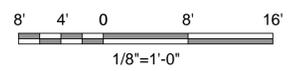
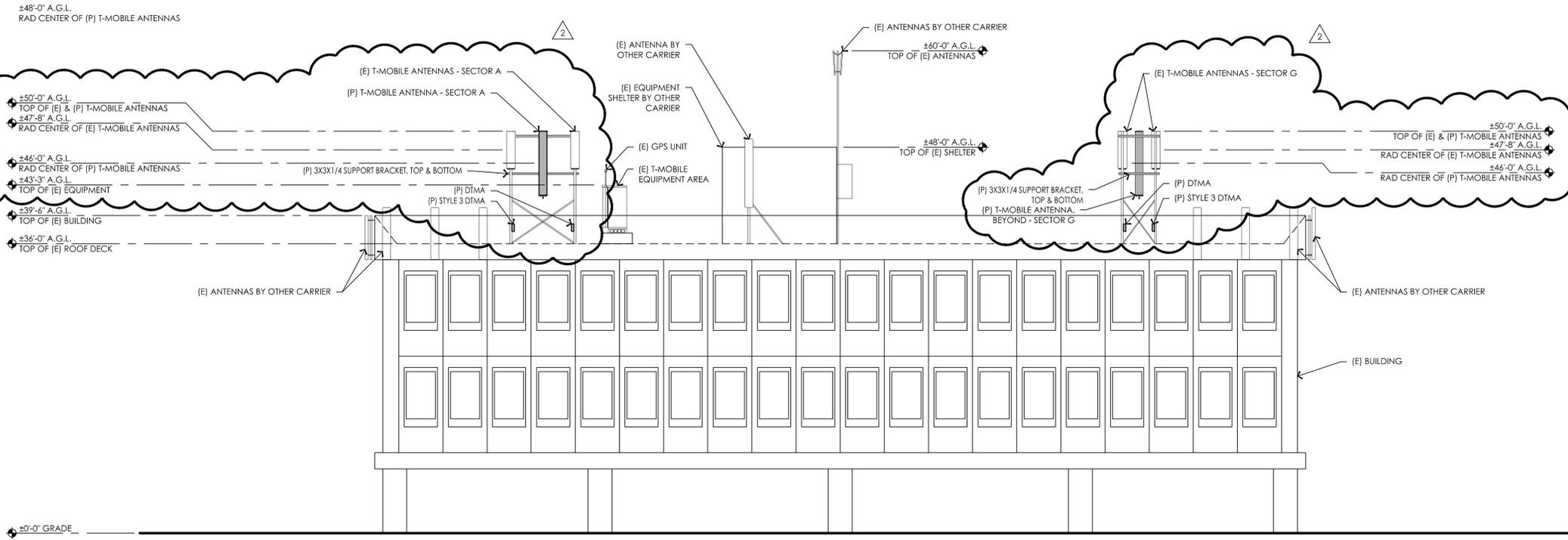
**ELEVATIONS**

**SHEET NUMBER:**

**A-3.1**



**19 EXISTING NORTH ELEVATION**  
1/8" = 1'-0"



**17 PROPOSED NORTH ELEVATION**  
1/8" = 1'-0"

Plot Date: 4/25/2016 11:52:03 PM File Name: \\2015\15504\_Forza\_T-Mobile\_SF611A\_Santomas Park\Sheets\Building A-A-3.1 Elevations.dwg Plotted By: John McBurnell Job No.: T-15004-38

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INTERIORS  
1419 STONE POINT DRIVE  
SUITE 300  
ROSELAND, CA 95068  
TEL: 916.782.7000  
F: 916.773.3037  
BORGESARCH.COM

**CONSULTANT:**

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1330 North Broadway  
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Walnut Creek, CA 94596

**DRAWN BY: CHK: APV:**

JVM B.K.W. B.K.W.

**LICENSER:**

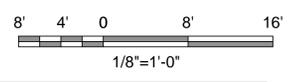
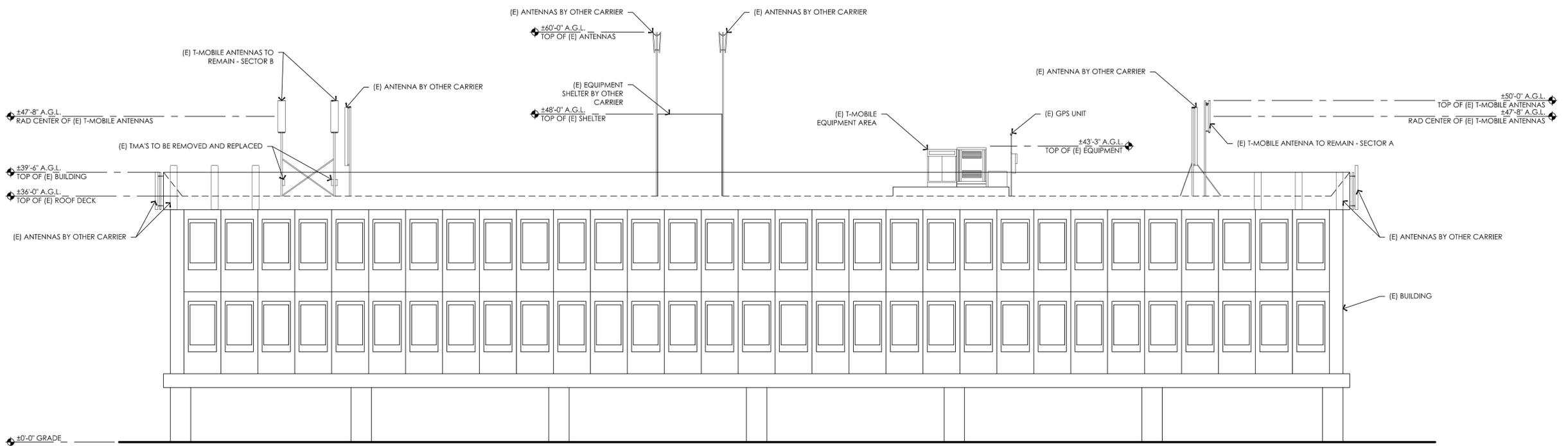


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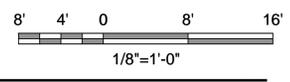
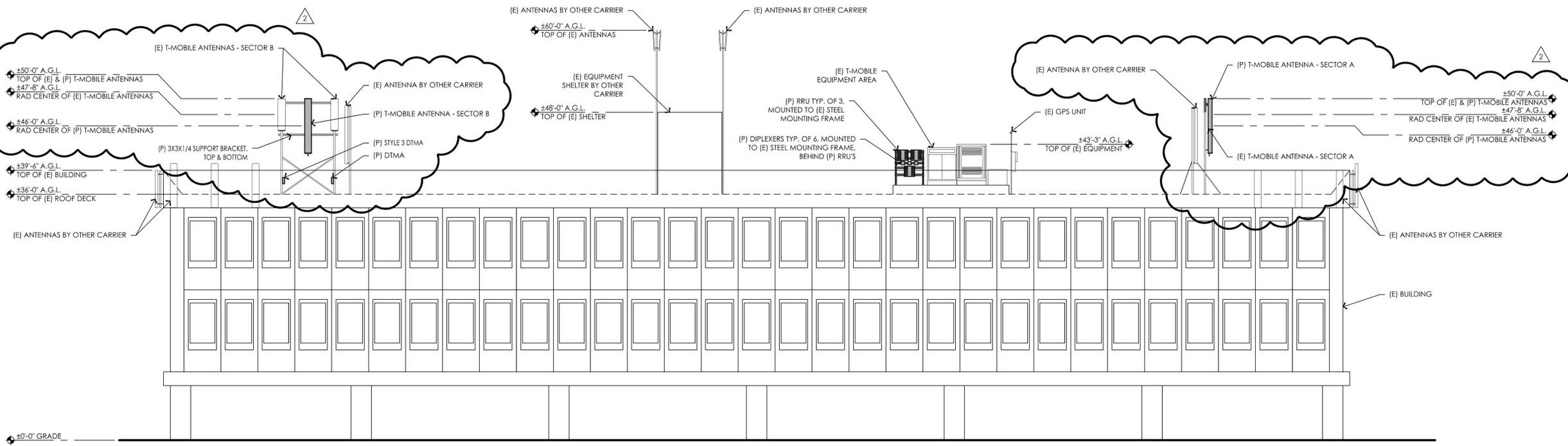
ELEVATIONS

**SHEET NUMBER:**

**A-3.2**



**19 EXISTING EAST ELEVATION**  
1/8" = 1'-0"



**17 PROPOSED EAST ELEVATION**  
1/8" = 1'-0"

Plot Date: 4/25/2016 2:28:49 PM File Name: \\2015\115504\_Forza\_T-Mobile\_SF04611A\_SF611A\_SantomasPark\Sheets\Building A-A-3.2 Elevation.dwg Plotted By: John McBurnell Job No.: T-15004-38

**PROJECT INFORMATION:**

**SF04611A**

**SF611 SANTOMAS PARK**

700 W HAMILTON AVE  
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**DRAWN BY: CHK: APV:**

JVM B.K.W. B.K.W.

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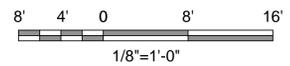
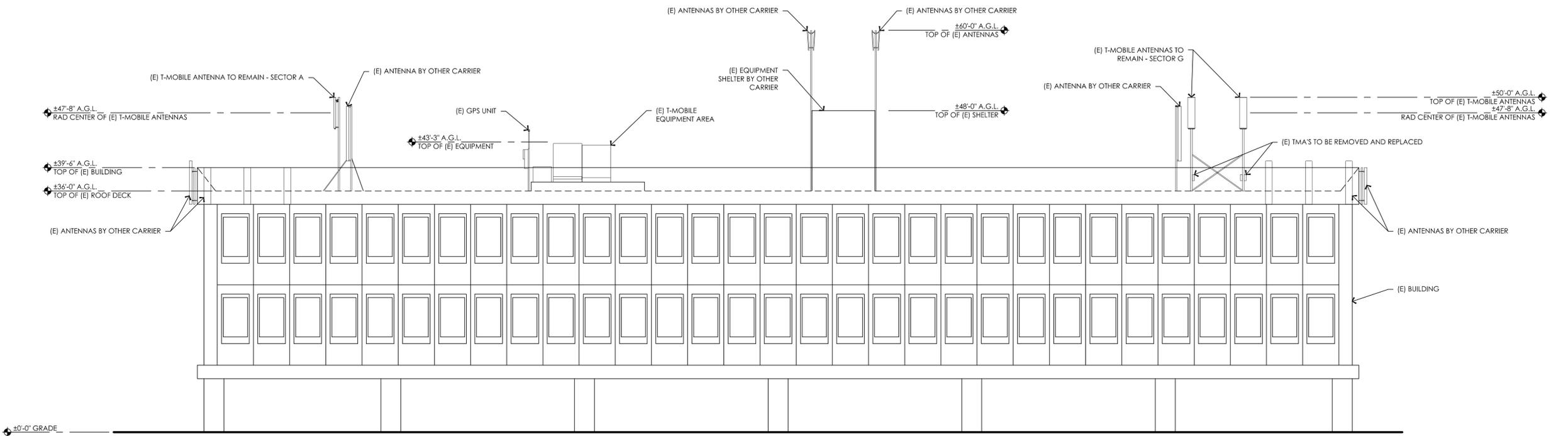


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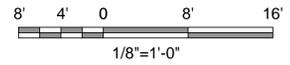
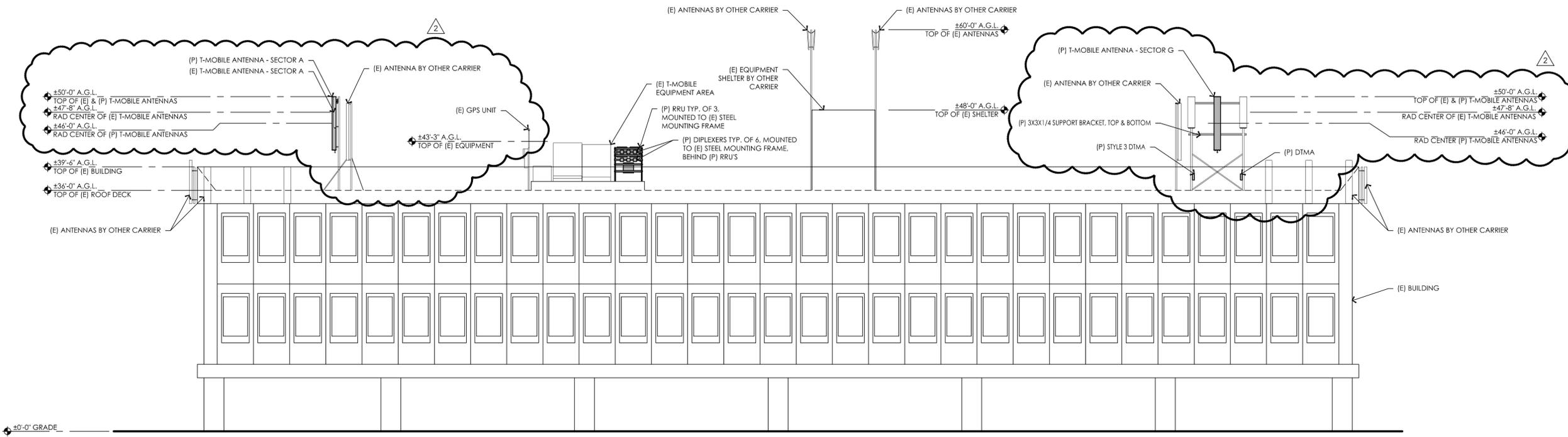
**ELEVATIONS**

**SHEET NUMBER:**

**A-3.3**

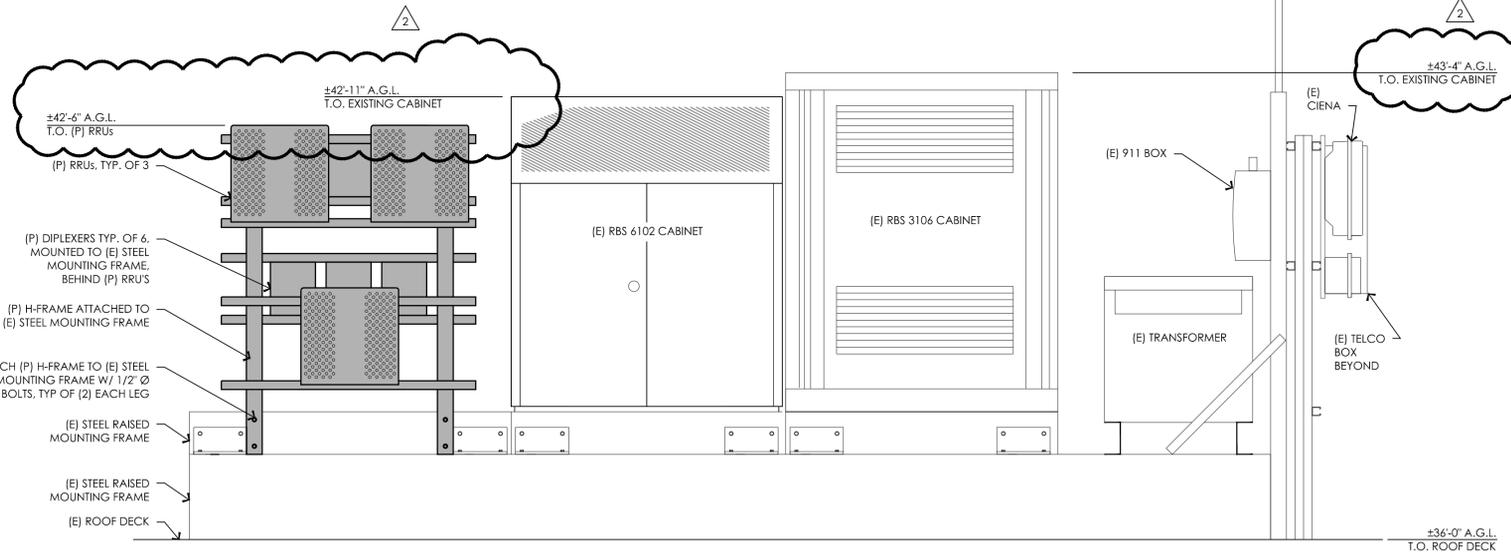


**19** EXITING WEST ELEVATION  
1/8" = 1'-0"

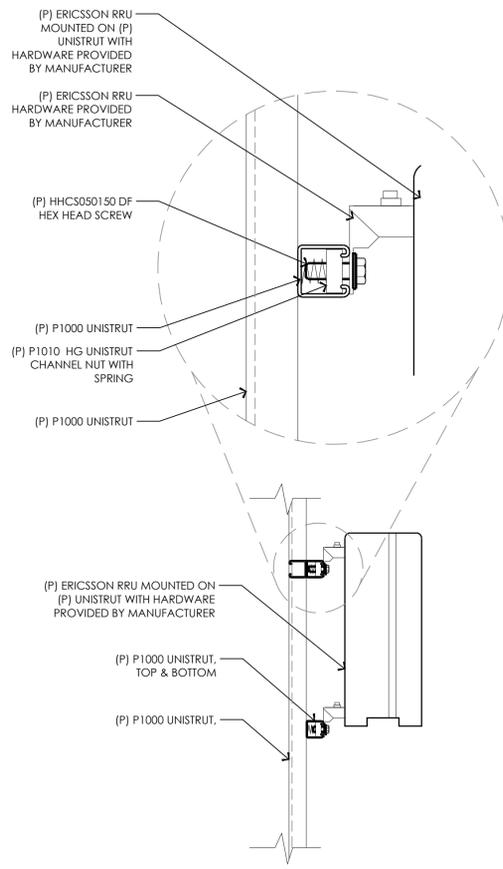


**17** PROPOSED WEST ELEVATION  
1/8" = 1'-0"

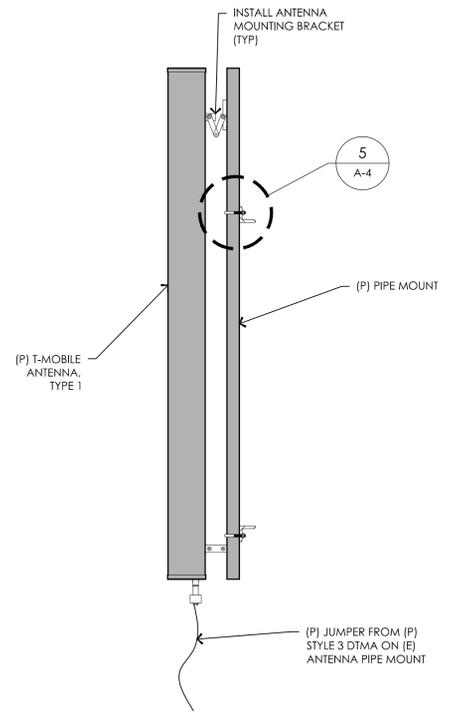
P:\04\2015\15004\_F001\_1\_Mobile\_SF04611A\_SantomasPark\04611A\_SantomasPark\04611A\_A-3.3 Elevations.dwg Plotted By: John McBurnell Job No.: T-15004-38



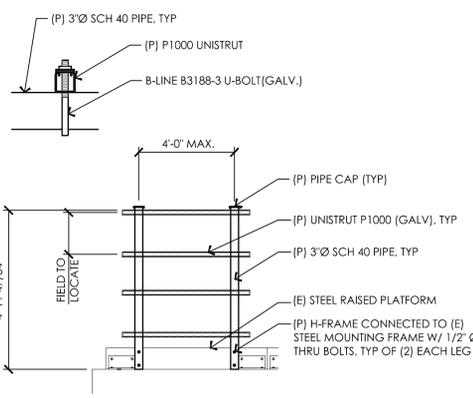
19 ENLARGED EQUIPMENT ELEVATION  
 3/4" = 1'-0"



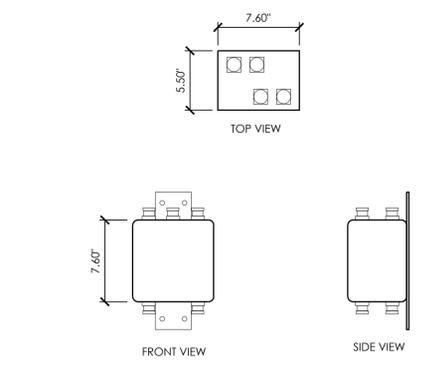
7 RRU MOUNTING TO H FRAME  
 1/2" = 1'-0"



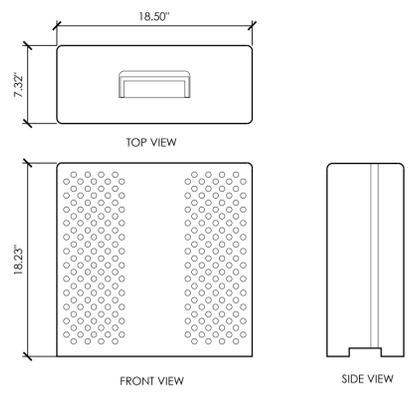
3 (P) ANTENNA MOUNTING DETAIL  
 3/4" = 1'-0"



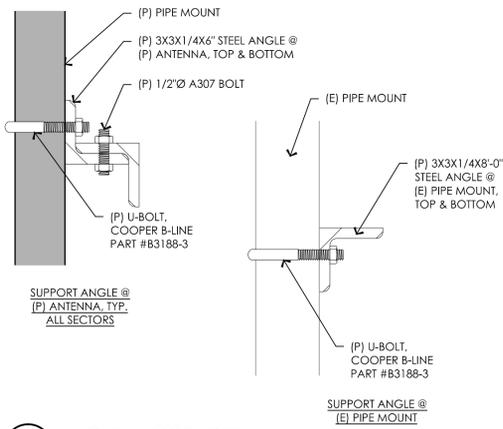
10 H FRAME MOUNT  
 3/8" = 1'-0"



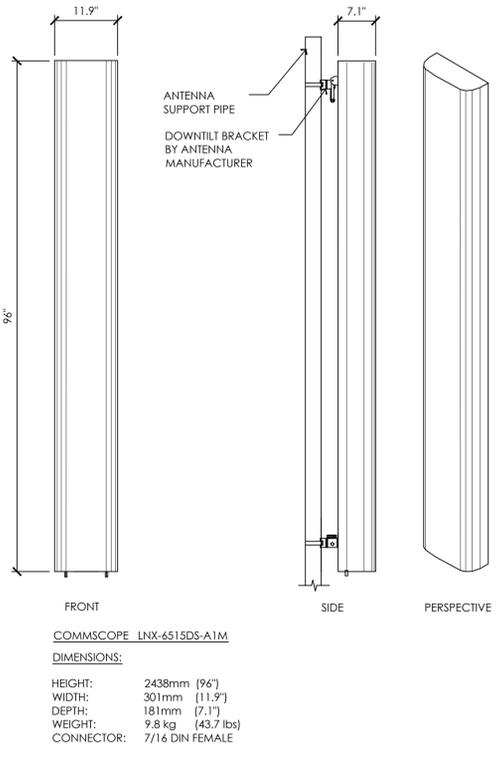
6 DTMA SPEC  
 1/2" = 1'-0"



9 RRU SPEC  
 1/2" = 1'-0"



5 ANGLE SUPPORT DETAIL  
 3/4" = 1'-0"



1 PROPOSED ANTENNA SPECIFICATIONS  
 3/4" = 1'-0"

**T-Mobile**  
 T-MOBILE WEST LLC,  
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**Borges** ARCHITECTURAL GROUP  
 ARCHITECTURE  
 PLANNING  
 INTERIORS  
 1419 STONE POINT DRIVE SUITE 300  
 ROSELVILLE CA 95668  
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**CONSULTANT:**  
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 1330 North Broadway  
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 Walnut Creek, CA 94596

**DRAWN BY:** JVM **CHK.:** B.K.W. **APV.:** B.K.W.

**LICENSER:**  
 LICENSED ARCHITECT  
 JAMES R. SAUBICHT  
 No. C11535  
 Exp. 09-30-17  
 STATE OF CALIFORNIA

**SHEET TITLE:**  
**DETAILS**

**SHEET NUMBER:**  
**A-4**

Plot Date: 4/26/2016 10:32:09 PM File Name: \\2015\115504\_Forza\_1-Mobile-SF04611A\_SF611-Santomas-Park-Sherm-Building-A-A-4-Detail.dwg Plotted By: John McDonnell

Job No.: T-15004-08

- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRICAL CODES AND ALL LOCAL AND STATE CODE, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC STANDARDS.
- CONTRACTOR SHALL COORDINATE WITH LOCAL POWER COMPANY FOR REQUIREMENTS OF POWER SERVICE LINE TO THE METER BASE. POWER SERVICE REQUIREMENT IS COMMERCIAL AC NOMINAL 120/208 VOLT OR 120/240 VOLT, SINGLE PHASE WITH 200 AMP RATING.
- CONTRACTOR SHALL COORDINATE WITH LOCAL TELEPHONE COMPANY FOR REQUIREMENTS OF "T1" SERVICE LINE TO TERMINATE AT THE PPC CABINET.
- CONTRACTOR SHALL FURNISH AND INSTALL ELECTRIC METER BASE AND 200A DISCONNECT SWITCH PER SITE PLAN AND DETAIL DRAWINGS. THE METER BASE SHOULD BE LOCATED IN A MANNER WHERE ACCESSIBLE BY THE LOCAL POWER COMPANY.
- LOCAL POWER COMPANY SHALL PROVIDE 200 AMP ELECTRIC METER. CONTRACTOR SHALL COORDINATE INSTALLATION OF METER WITH LOCAL POWER COMPANY.
- UNDERGROUND POWER AND TELCO SERVICE LINES SHALL BE ROUTED IN A COMMON TRENCH. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 AND CONDUIT EXPOSED ABOVE GROUND SHALL BE RIGID GALVANIZED STEEL UNLESS OTHERWISE INDICATED.
- ALL TELCO CONDUIT LINES SHALL BE 4" SCH. 40 PVC CONDUIT UNLESS OTHERWISE INDICATED. THE TELCO CONDUIT FROM THE PPC SHALL BE ROUTED AND TERMINATED AT DESIGNATED TELCO DEMARCATION OR 2-FEET OUTSIDE FENCED AREA, NEAR UTILITY POLE (IN FENCED AREA), OR END CAP OFF AND PROVIDE MARKER STAKE PAINTED BRIGHT ORANGE WITH DESIGNATION FOR TELCO SERVICE.
- CONDUITS INSTALLED AT PCS EQUIPMENT ENDS PRIOR TO THE EQUIPMENT INSTALLATION SHALL BE STUBBED AND CAPPED AT 6" ABOVE GRADE OR PLATFORM. IF SERVICE LINES CAN'T BE INSTALLED INITIALLY, PROVIDE NYLON PULL CORD IN CONDUITS.
- THE SPRINT CABINET, INCLUDING 200 AMP LOAD PANEL AND TELCO PANEL, SHALL BE PROVIDED BY OWNER AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS TO INSTALL BREAKER(S) NOT PROVIDED BY MANUFACTURER. SEE PANEL SCHEDULE ON THIS SHEET FOR BREAKER REQUIREMENTS.
- LOCATION OF ELECTRIC METER AND DISCONNECT SWITCH TO BE COORDINATED BY ELECTRICAL CONTRACTOR AND FIELD CONSTRUCTION MANAGER.
- #2 WIRE TO BE UTILIZED IN ELECTRIC SERVICE RUNS EXCEEDING 100'.

- CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTORS FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.

- LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO ROUGH-IN.

- THE CONDUIT RUNS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATION AND ROUTING SHALL BE PER EXISTING FIELD CONDITIONS.

- PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.

- ALL CONDUITS SHALL BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC TABLE 346-10. NO RIGHT ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 12" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER.

- ALL CONDUIT TERMINATIONS SHALL BE PROVIDED WITH PLASTIC THROAT INSULATING GROUNDING BUSHINGS.

- ALL WIRE SHALL BE TYPE THWN, SOLID, ANNEALED COPPER UP TO SIZE #10 AWG (#8 AND LARGER SHALL BE CONCENTRIC STRANDED) 75 DEGREE C, (167 DEGREES F), 98% CONDUCTIVITY, MINIMUM #12.

- ALL WIRES SHALL BE TAGGED AT ALL PULL BOXES, J-BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS, ACTION CRAFT, BRADY, OR APPROVED EQUAL.

- ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.

- CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION TO CONFLICTS. VERIFY WITH MECHANICAL CONTRACTOR AND COMPLY AS REQUIRED.

- ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN NOT HAND WRITTEN.

- INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULL BOXES, AND ALL DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.

- THE CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS, DOCUMENT ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. SUBMIT AT SUBSTANTIAL COMPLETION.

- ALL DISCONNECT SWITCHES AND OTHER CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED PHENOLIC NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FED FROM (NO EXCEPTIONS.)

- ALL ELECTRICAL DEVICES AND INSTALLATIONS OF THE DEVICES SHALL COMPLY WITH (ADA) AMERICANS WITH DISABILITIES ACT AS ADOPTED BY THE APPLICABLE STATE.

- PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS OR RISERS THROUGH BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT CONSTRUCTION MANAGERS APPROVAL. SIENES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE PACKED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FILL FOR FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.

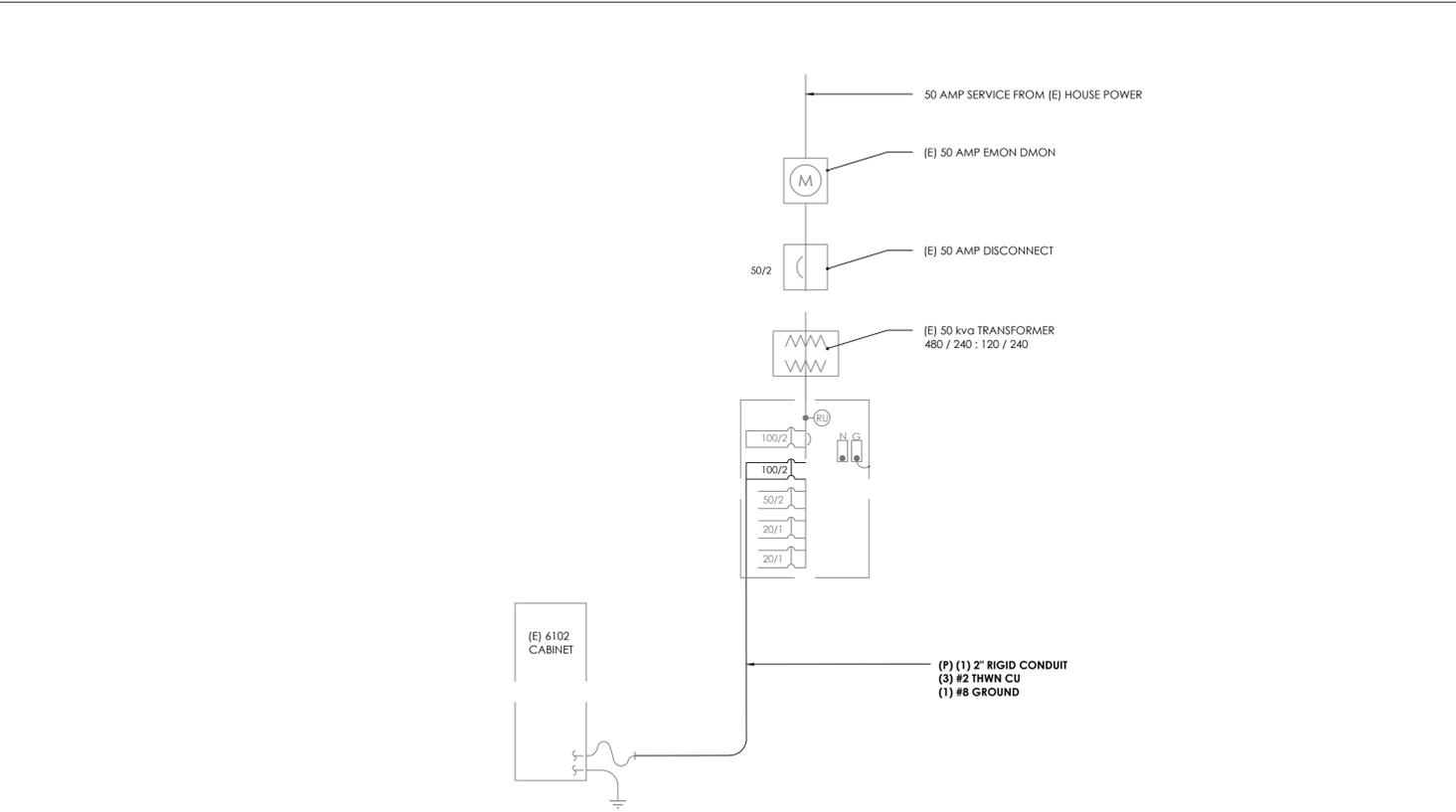
- ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT (NEW AND EXISTING) SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN OF CONDUIT AND WIRE. ALL EQUIPMENT SHALL BE PROPERLY CONNECTED ACCORDING TO THE NAMEPLATE DATA FURNISHED ON THE EQUIPMENT (THE DESIGN OF THESE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN AND SOME EQUIPMENT CHARACTERISTICS MAY VARY FROM DESIGN AS SHOWN ON THESE DRAWINGS).

- LOCATION OF ALL OUTLET, BOXES, ETC., AND THE TYPE OF CONNECTION (PLUG OR DIRECT) SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.

(E) T-MOBILE PANEL										
VOLTAGE:	120/240 V, 1 PHASE, 3 WIRE			MOUNTING:	SURFACE <th>ENCLOSURE:</th> <td colspan="2">NEMA 1</td>			ENCLOSURE:	NEMA 1	
BUS:	100 AMPS			TYPE:	100/2 TRANSFER DEVICE <th>AIC RATING:</th> <td colspan="2">22,000</td>			AIC RATING:	22,000	
LOAD	KVA	CB	NO	NO	CB	KVA	LOAD			
6102 CABINET	5.4	60	1	2	20	1	0.50	LIGHTS		
			2	4	20	1	0.00	SPARE		
3106 CABINET	5.0	50	2	6	30	1	0.00	SPARE		
			3	8	30	2				
2106 CABINET	0.00	40	2	10	100	2	0.00	MAIN		
			7	12	100	2				
			9							
			11							
CONNECTED LOAD	10.9			CONNECTED LOAD:	45.42 AMPERES					
25% LIGHTING										
25% LARGEST MOTOR	0.00									
TOTAL CONNECTED LOAD	10.9									

(P) T-MOBILE PANEL										
VOLTAGE:	120/240 V, 1 PHASE, 3 WIRE			MOUNTING:	SURFACE <th>ENCLOSURE:</th> <td colspan="2">NEMA 1</td>			ENCLOSURE:	NEMA 1	
BUS:	100 AMPS			TYPE:	100/2 TRANSFER DEVICE <th>AIC RATING:</th> <td colspan="2">22,000</td>			AIC RATING:	22,000	
LOAD	KVA	CB	NO	NO	CB	KVA	LOAD			
SPARE	0.0	60	1	2	20	1	0.50	LIGHTS		
			2	4	20	1	0.00	SPARE		
3106 CABINET	5.0	50	2	6	30	1	0.00	SPARE		
			3	8	30	2				
6102 CABINET	13.5	100	2	10	100	2	0.00	MAIN		
			7	12	100	2				
			9							
			11							
CONNECTED LOAD	19			CONNECTED LOAD:	79.17 AMPERES					
25% LIGHTING										
25% LARGEST MOTOR	0.00									
TOTAL CONNECTED LOAD	19									

**PANEL SCHEDULE**  
NOT TO SCALE



**TYPICAL SYMBOLS**

- LIGHTING FIXTURE, WALL MOUNTED
- ◻ EM NIGHT LIGHT - FIXTURES TAGGED "EM" TO HAVE EMERGENCY BATTERY BALLAST
- ◻ FLUORESCENT LIGHT FIXTURE, SEE FIXTURE SCHEDULE
- ◻ FLUORESCENT LIGHT FIXTURE, SEE FIXTURE SCHEDULE
- ⊗ EXIT LIGHT FIXTURE, DIRECTIONAL ARROWS AS REQUIRED.
- ⊕ EMERGENCY LIGHT, MOUNT AT 84" AFF.
- ⊕ LIGHT FIXTURE TAG, SEE FIXTURE SCHEDULE.
- ⊕ FIRE ALARM CONTROL PANEL
- ⊕ FIRE PULL STATION AT +48"
- ⊕ FIRE FLOW SWITCH
- ⊕ FIRE TAMPER SWITCH
- ⊕ JUNCTION BOX
- ⊕ SINGLE POLE TOGGLE SWITCH, 20A, +48"
- ⊕ TWO GANG TOGGLE SWITCH, 20A, +48" UON LETTERS DENOTE FIXTURES SERVED
- ⊕ 2 POLE TOGGLE SWITCH, 20A, +48"
- ⊕ 3 WAY TOGGLE SWITCH, 20A, +48"
- ⊕ DIMMER SWITCH, 20A, +48"
- ⊕ TIMER SWITCH 20A, @ +48"
- ⊕ KEYED SWITCH, @ +48"
- ⊕ PUSH BUTTON
- ⊕ MOTION SENSOR SWITCH - SINGLE LEVEL LEVITON #6768 W +48"
- ⊕ MOTION SENSOR SWITCH - DUAL LEVEL LEVITON #6772 W +48"
- ⊕ CEILING HALLWAY MOUNTED OCCUPANT SENSING DEVICE, LEVITON #6787 W.
- ⊕ CEILING MOUNTED OCCUPANT SENSING DEVICE "OS", LEVITON #16786 WITH POWER PACK "PP" LEVITON #6779-DT
- ⊕ MOTION SENSOR SWITCH - CEILING MOUNTED
- ⊕ POWER PACK FOR MOTION SENSORS
- ⊕ FOURPLEX RECEPTACLE 15A, 125V, +18" AFF UON.
- ⊕ DUPLEX RECEPTACLE OUTLET 20A, 125V, +18" AFF UON
- ⊕ MOUNT OUTLET ABOVE COUNTER OR BACKSPLASH (VERIFY HEIGHT W/ARCHITECT)
- ⊕ OUTLET MOUNTED IN FLOOR OR CEILING.
- ⊕ SECURITY OUTLET WITH LOCKABLE COVER
- ⊕ TELEPHONE OUTLET: +18" AFF UON, PROVIDE PULL WIRE OR 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.
- ⊕ COMBINATION COMM/DATA OUTLET: +18" AFF UON, PROVIDE PULL WIRE OR 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.
- ⊕ DATA OUTLET: +18" AFF UON, PROVIDE PULL WIRE OR 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.
- ⊕ TELEPHONE / DATA OUTLET MOUNTED IN FLOOR OR CEILING.
- ⊕ MICROPHONE OUTLET MOUNTED IN FLOOR OR CEILING.
- ⊕ MAIN SWITCHBOARD
- ⊕ LIGHTING OR DISTRIBUTION PANEL.
- ⊕ SURFACE OR FLUSH TERMINAL CABINET
- ⊕ DISTRIBUTION TRANSFORMER, MOUNTING AS NOTED
- ⊕ DISCONNECT SWITCH SIZE & TYPE AS REQUIRED F=FUSED
- ⊕ MOTOR SEE MECHANICAL PLANS AND SPECIFICATION
- ⊕ EXHAUST FAN - SEE MECHANICAL PLANS AND SPECIFICATION
- ⊕ MECHANICAL EQUIPMENT I.D. TAG - SEE MECHANICAL PLANS
- ⊕ CIRCUIT CONCEALED IN CEILING OR WALL
- ⊕ CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND
- ⊕ HOME RUN TO PANELBOARD OR TERMINAL CABINET
- ⊕ DENOTES # OF #12 WIRES, NO MARKS = 2 #12, 1/2". CURVED HATCH DENOTES GROUND, OTHERS AS NOTED
- ⊕ CONDUIT SEAL OFF
- ⊕ TELEPHONE TERMINAL BOARD: SIZE AS SHOWN, FOURPLEX RECEPTACLE & 1 #6 CU TO GROUND.

**ABBREVIATIONS**

- BCW BARE COPPER WIRE
- C CONDUIT
- CEC CALIFORNIA ELECTRICAL CODE
- E EXISTING
- EG EQUIPMENT GROUND
- FACP FIRE ALARM CONTROL PANEL
- G GROUND FAULT CIRCUIT INTERRUPTER
- IG ISOLATED GROUND
- IMC INTERMEDIATE METAL CONDUIT
- LFMC LIQUID TIGHT FLEXIBLE METAL CONDUIT
- MCM MILLION CIRCULAR MILLS
- MP&S SEE MECHANICAL PLANS & SPECIFICATIONS
- N NEW
- NEC NATIONAL ELECTRICAL CODE - NFPA 70
- NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
- NL NIGHT LIGHT - FIXTURE TO BE UNSWITCHED
- PFB PROVISION FOR FUTURE BREAKER
- PVC POLYVINYL CHLORIDE CONDUIT
- R RELOCATE AS INDICATED
- (RV) REMOVE - RESTORE CONTINUITY TO REMAINING DEVICES.
- TYP TYPICAL
- UON UNLESS OTHERWISE NOTED
- WP WEATHERPROOF
- GFCI GROUND FAULT CIRCUIT INTERRUPTER

**T-Mobile**  
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**PROJECT INFORMATION:**  
**SF04611A**  
**SF611 SANTOMAS PARK**  
700 W HAMILTON AVE  
CAMPBELL, CA 95008  
CITY OF CAMPBELL

**CURRENT ISSUE DATE:**  
**04/25/16**

**ISSUED FOR:**  
**PLAN CHECK COMMENTS**

REV	DATE	DESCRIPTION	BY
0	04/30/15	90% CD SUBMITTAL	E.D.F.
1	05/26/15	100% CD SUBMITTAL	JVM
2	04/25/16	PLAN CHECK COMMENTS	JVM

**PROJECT ARCHITECT / ENGINEER:**  
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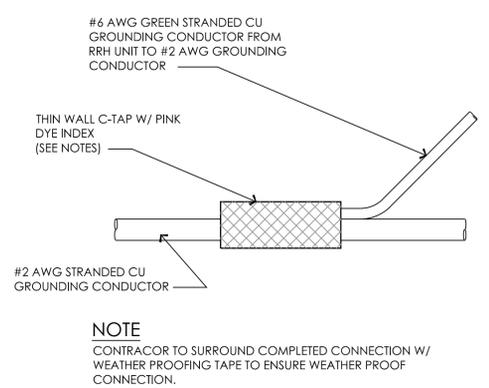
**DRAWN BY:** JVM **CHK:** B.K.W. **APV:** B.K.W.

**LICENSER:**  
LICENSED ARCHITECT  
INGRAB SAUBICHT  
No. C11535  
09-09-2011  
STATE OF CALIFORNIA

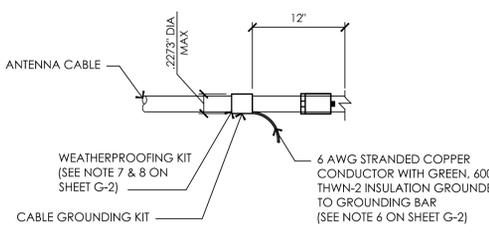
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**ELECTRICAL DETAILS**

**SHEET NUMBER:**  
**E-1**

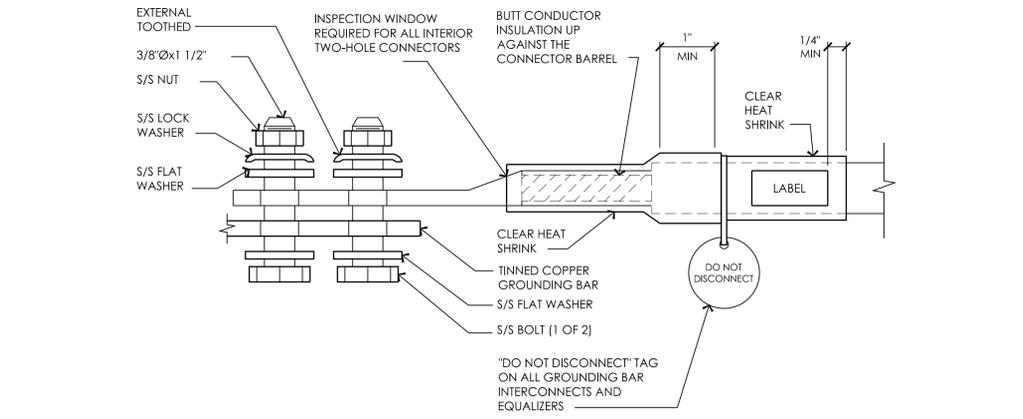
Plot Date: 4/25/2016 11:55:04 AM File Name: \\2015\115504\_Forza\_1-Mobile\SF04611A\_SF04611A\_Santomas Park\Sheet\Building A\11 - Electrical Details.dwg Plotted By: John McDonnell Job No.: T-15004-08



**20 C-TAP CONNECTION**  
NOT TO SCALE



**19 CONNECTION OF WEATHERPROOFING KIT TO ANTENNA CABLE**  
NOT TO SCALE



**18 TWO HOLE LUG**  
NOT TO SCALE

1. COMPRESSION CONNECTIONS (2) 2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUNDING BAR. ROUTE CONDUCTORS TO BURIED GROUNDING RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
2. EC SHALL USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "N", "T") WITH 1" HIGH LETTERS.
3. ALL HARDWARE 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR LARGER.
4. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
5. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUNDING BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, 600 VOLT INSULATION, ON ALL GROUNDING TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
6. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
7. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
8. WEATHERPROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
9. GROUND RESISTANCE NOT TO EXCEED 10 OHMS.
10. WHEN THE SCOPE OF WORK REQUIRES THE ADDITION OF A GROUNDING BAR TO AN EXISTING TOWER, THE SUBCONTRACTOR SHALL OBTAIN APPROVAL FROM THE TOWER OWNER PRIOR TO MOUNTING THE GROUNDING BAR TO THE TOWER.
11. EXTEND TWO (2) 2 AWG TINNED CU CONDUCTOR FROM BURIED GROUNDING RING AND CONNECT TO THE PROPOSED TOWER. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR GROUNDING CONNECTIONS TO THE TOWER. (APPLICABLE TO NEW TOWERS ONLY.)
12. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUNDING BARS AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.

**17 GROUNDING NOTES**  
NOT TO SCALE

CADWELD CONNECTIONS OR APPROVED EQUAL		BURNDY CONNECTIONS OR APPROVED EQUAL
PARALLEL HORIZONTAL CONDUCTORS PARALLEL THROUGH CONNECTION OF HORIZONTAL CABLES TYPE PT	HORIZONTAL STEEL SURFACE TO FLAT STEEL SURFACE OR HORIZONTAL PIPE TYPE HS	BOND JUMPER FIELD FABRICATED GREEN STRANDED INSULATED TYPE 2-YA-2
THROUGH CABLE TO GROUND ROD THROUGH CABLE TO TOP OF GROUND ROD TYPE GT	VERTICAL STEEL SURFACE CABLE DOWN AT 45° TO VERTICAL STEEL SURFACE INCLUDING PIPE TYPE VS	COPPER LUGS TWO HOLE - LONG BARREL LENGTH TYPE YA-2
VERTICAL PIPE CABLE DOWN AT 45° TO RANGE OF VERTICAL PIPES TYPE VS		

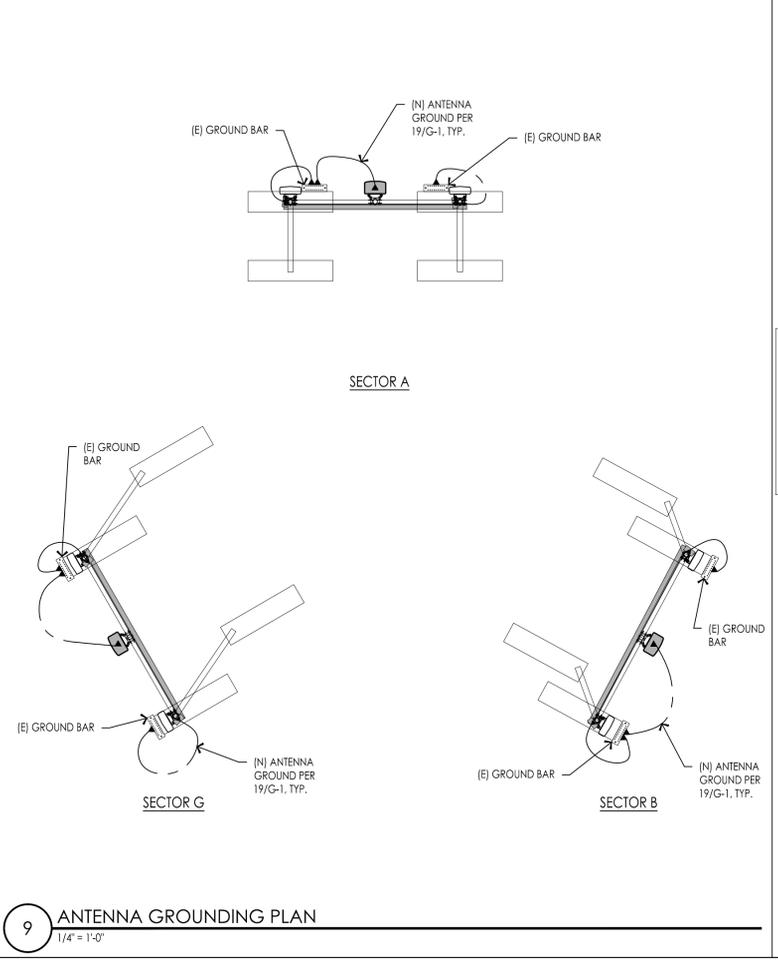
**TYPICAL CADWELD TYPE CONNECTIONS**  
NO SCALE

**GROUNDING NOTES**

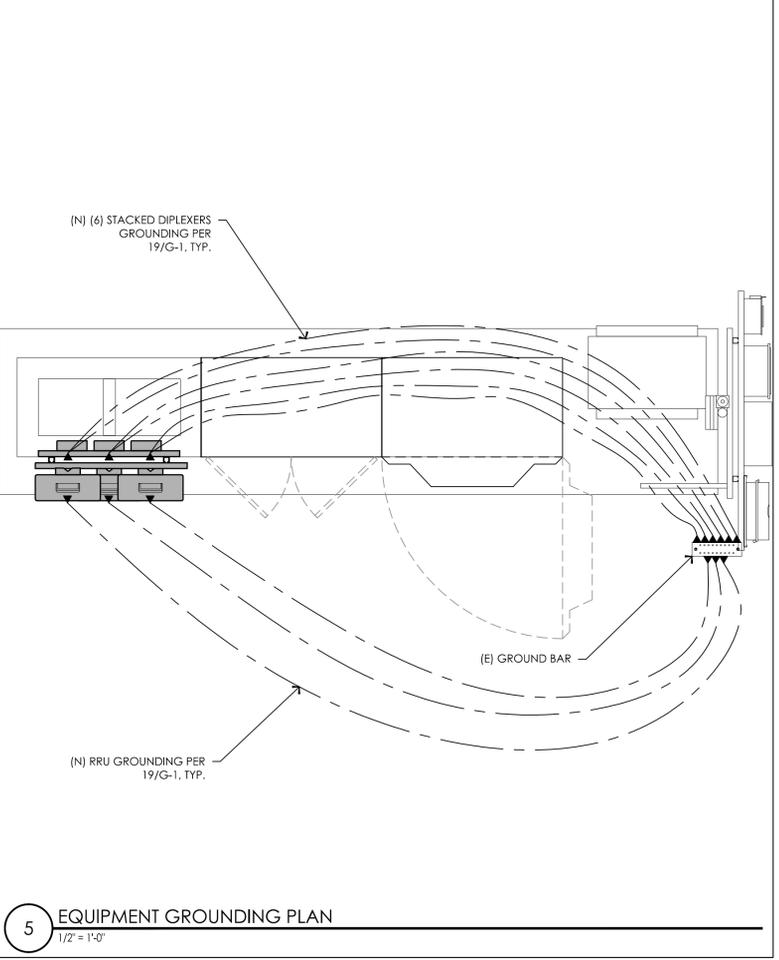
1. ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER SPECIFICATION.
2. IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED TO GROUND ELECTRODE SYSTEM. WHEN THE AC PANEL IN THE POWER CABINET IS CONSIDERED A SUB-PANEL, THE GROUND WIRE SHALL BE INSTALLED IN THE AC POWER CONDUIT. THE INSTALLATION SHALL BE PER LOCAL AND NATIONAL ELECTRIC CODE (NFPA-70).
3. EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTION WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE MADE USING COMPRESSION TYPE-2 HOLES, LONG BARREL LUGS OR DOUBLE CRIMP CLAMP "C" CLAMP. THE COPPER CABLES SHALL BE COATED WITH ANTI-OXIDANT (COPPER SHIELD) BEFORE MAKING THE CONNECTIONS. THE MANUFACTURER'S TORQUING RECOMMENDATIONS ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS SHALL BE FOLLOWED.
4. THE ANTENNA CABLES SHALL BE GROUNDING AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUSS AT THE LOWER MOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. ANTENNA CABLE SHIELD SHALL BE GROUNDING JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
5. ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES OR EQUIPMENT.
6. PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND /OR CEILINGS.
7. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.
8. GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
9. ALL PROPOSED GROUNDING CONDUCTORS SHALL BE ROUTED AND CONNECTED TO THE MAIN GROUND BAR OR EXISTING GROUND RING.

**GROUNDING LEGEND**

- EXISTING GROUND RING
- CADWELD CONNECTION (EXOTHERMIC WELD)
- ▲ MECHANICAL CONNECTION
- ⊗ GROUND ROD



**9 ANTENNA GROUNDING PLAN**  
1/4" = 1'-0"



**5 EQUIPMENT GROUNDING PLAN**  
1/2" = 1'-0"

**T-Mobile**  
T-MOBILE WEST LLC,  
a DELAWARE CORPORATION  
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**PROJECT INFORMATION:**  
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700 W HAMILTON AVE  
CAMPBELL, CA 95008  
CITY OF CAMPBELL

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0	04/30/15	90% CD SUBMITTAL	E.D.F.
1	05/26/15	100% CD SUBMITTAL	JVM
2	04/25/16	PLAN CHECK COMMENTS	JVM

**PROJECT ARCHITECT / ENGINEER:**  
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No. C11535  
Exp. 09-30-17  
STATE OF CALIFORNIA

**SHEET TITLE:**  
**GROUNDING PLAN AND NOTES**

**SHEET NUMBER:**  
**G-1**

Plot Date: 4/25/2016 11:52:56 PM File Name: \\1151\15504\_Mobile\SF04611A\_SF04611A\_Santomas Park\Sheet\Building A\G-1\_Grounding Plan and Notes.dwg Plotted By: John McDevine

Job No.: T-15004-08