



3257 E. GUASTI ROAD #200  
ONTARIO, CA 91761



38 TECHNOLOGY DRIVE, SUITE 250  
IRVINE, CA 92618

PLANS PREPARED BY:

PDC CORPORATION



13225 DANIELSON ST, SUITE 200  
POWAY, CA 92064  
TEL: (858) 668-2828  
FAX: (858) 668-2827

**SITE NUMBER:** LA02382A  
**SITE NAME:** TMT LA066 710/WOOD AVE  
**SITE TYPE:** MONOPOLE  
**TOWER HEIGHT:** 60'-0"

**CROWN BU #:** 828462  
**CITY:** LOS ANGELES  
**COUNTY:** LOS ANGELES  
**JURISDICTION:** COUNTY OF LOS ANGELES

**PROJECT SUMMARY:**

**SITE ADDRESS:**  
4425 E. OLYMPIC BLVD.  
LOS ANGELES, CA 90023

**PROPERTY OWNER:**  
ANTONIO GONZALES AND FRANCISCO GONZALES  
3675 SANTA ELENA CIRCLE.  
CORONA, CA 92882

**TOWER OWNER:**  
CROWN CASTLE  
38 TECHNOLOGY DRIVE, SUITE 250  
IRVINE, CALIFORNIA 92618

**APPLICANT:**  
T-MOBILE  
3257 E. GUASTI ROAD #200  
ONTARIO, CA 91761  
REPRESENTATIVE: ALBERT CROCKENBERG  
PROPERTY SPECIALIST: CROWN CASTLE  
CONSTRUCTION MANAGER: T-MOBILE/ERICSSON  
SITE ACQUISITION: CROWN CASTLE

**SHEET INDEX:**

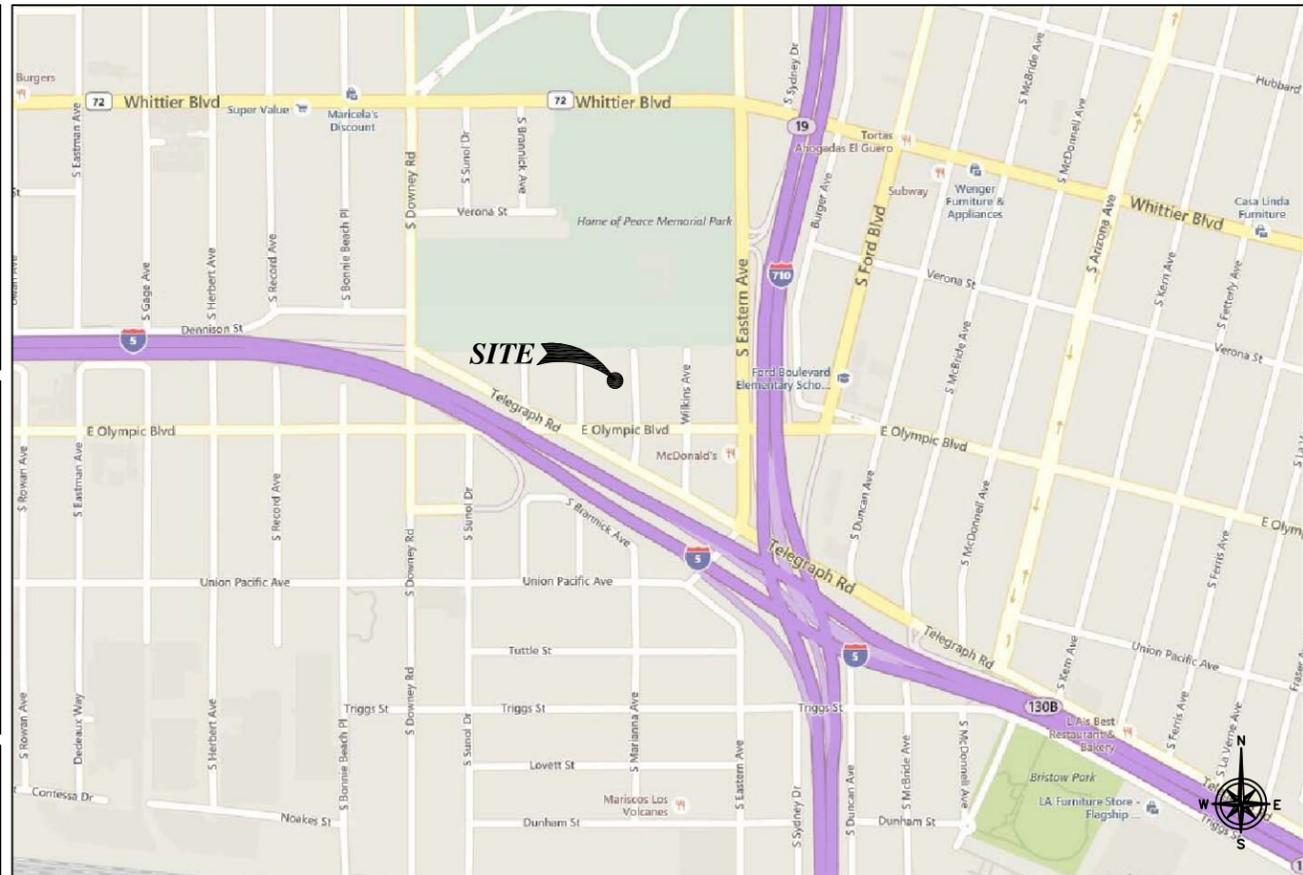
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**PROJECT DESCRIPTION:**

T-MOBILE WIRELESS PROPOSES TO MODIFY AN EXISTING SITE AS FOLLOWS:

- INSTALL (3) (N) 8' QUAD PANEL ANTENNAS. (TYP-1 PER SECTOR)
- REMOVE (3) (E) QUAD PANEL ANTENNAS (TYP-1 PER SECTOR).
- REMOVE (3) (E) TWIN AWS TMAs AND REPLACE WITH (N) STYLE 3C TMAs MOUNTED ON (E) PIPE.
- INSTALL (3) (N) RRU5-11 B12 ON NEW H-FRAME AT GROUND LEVEL.
- INSTALL (3) (N) 700/AWS/PCS DIPLEXERS MOUNTED BELOW NEW RRU'S ON NEW H-FRAME.
- UPGRADE POWER IN CABINET.
- REMOVE AND REPLACE EXISTING DUL20 WITH DUS41 (IF NOT EXISTING) INSIDE EXISTING EQUIPMENT CABINET .

DESIGN IS BASED ON RFDS VERSION 12, CONFIGURATION: E\_704Au\_002\_Modified



**CONSULTING TEAM:**

**ARCHITECTURAL & ENGINEERING:**  
PDC CORPORATION  
13225 DANIELSON ST, SUITE 200  
POWAY, CA 92064  
CONTACT: SOHAIL A. SHAH, PE  
PHONE: (858) 668-2828  
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**PROJECT MANAGER:**  
CROWN CASTLE  
38 TECHNOLOGY DRIVE, SUITE 250  
IRVINE, CA 92618  
CONTACT: PATRICE TIPTON  
PHONE: (949) 930-4350  
EMAIL: Patrice.Tipton@crowncastle.com

**PROPERTY SPECIALIST:**  
CROWN CASTLE  
38 TECHNOLOGY DRIVE, SUITE 250  
IRVINE, CA 92618  
CONTACT: ALYCE READ  
PHONE: (949) 930-7464  
EMAIL: alyce.read@crowncastle.com

**CONSTRUCTION MANAGEMENT:**  
ERICSSON INCORPORATED  
330 COMMERCE STE. 200  
IRVINE, CA 92602

**APPROVALS:**

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

	PRINT NAME	SIGNATURE	DATE
PROJ. MANAGER			
CONST. PM.			
RF ENGINEER			
SAC REP.			
PLAN. CONSULTANT			
PROP. OWNER			
T-MOBILE REP.			

**APPLICABLE CODES:**

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

- 2013 CALIFORNIA BUILDING CODE AND LOCAL AMENDMENTS
- 2013 CALIFORNIA MECHANICAL CODE AND LOCAL AMENDMENTS
- 2013 CALIFORNIA ELECTRIC CODE AND LOCAL AMENDMENTS
- 2013 CALIFORNIA PLUMBING CODE AND LOCAL AMENDMENTS
- 2013 CALIFORNIA FIRE CODE AND LOCAL AMENDMENTS
- 2013 CALIFORNIA ENERGY CODE
- 2013 CALIFORNIA REFERENCED STANDARD CODE

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

**PLAN CHECK COMMENTS:**

- 
- 
- 



NO.	DATE:	DESCRIPTION:	BY:
A	10/28/15	90% CD REVIEW	RSD
0	11/11/15	100% CD	SVF

CROWN CASTLE- BU NUMBER  
**828462**

SITE ID NUMBER  
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SITE NAME  
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4425 E. OLYMPIC BLVD.  
LOS ANGELES, CA 90023

SHEET TITLE  
**TITLE SHEET**

SHEET NUMBER  
**T-1**

## GENERAL SPECIFICATIONS

- THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.
- THIS FACILITY IS AN OCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.
- PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING DEMOLITION, ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS, AS WELL AS WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS AND SHALL CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. SHOULD ANY ERRORS, OMISSION, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY T-MOBILE CONSTRUCTION MANAGER AND THE ARCHITECT IN WRITING. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE. IF A DISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.
- DRAWINGS SHALL NOT BE SCALED. THESE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. CONTRACTOR SHALL CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS, OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAS BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
- THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID ALL MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDICATED OR IMPLIED BY THESE DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE T-MOBILE CONSTRUCTION MANAGER, THE PROPERTY OWNER AND THE ARCHITECT IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
- EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE T-MOBILE CONSTRUCTION MANAGER AND THE ARCHITECT SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL VERIFY ALL TELEPHONE & RADIO EQUIPMENT LAYOUTS, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND FINAL LOCATIONS WITH T-MOBILE CONSTRUCTION MANAGER PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ERICSSON RADIO SYSTEMS.
- ALL SYMBOLS & ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE T-MOBILE CONSTRUCTION MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO T-MOBILE.
- THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE IN THE SITE AND SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:
 

NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION O'HARE INTERNATIONAL CENTER 10255 W. HIGGINS ROAD, SUITE 600 ROSEMONT, IL 60018
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION 4201 LAFAYETTE CENTER DRIVE CHATILLY, VA 22021-1209
ITLP	INTERNATIONAL INSTITUTE FOR LATH AND PLASTER 820 TRANSFER ROAD ST. PAUL, MN 55114-1406
- INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BRACING, FRAMING, HANGARS OR OTHER SUPPORTS FOR ALL ITEMS REQUIRING THE SAME.
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.
- THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, AND CINGULAR WIRELESS PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING FINISHES, CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, OR EQUIPMENT, ETC. SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF T-MOBILE, AND THE PROPERTY OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY, ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY T-MOBILE UNDER THIS CONTRACT.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, OR CONTACT AN OUTSIDE AGENCY TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR THE REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY T-MOBILE.

## PAINTING NOTES & SPECIFICATIONS

- GENERAL
  - ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE.
  - CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.
  - COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.
  - FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED.
  - ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE T-MOBILE CONSTRUCTION MANAGER.
  - PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 400 GRIT SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1.
  - FURNISH DROP CLOTHES, SHIELDS, MASKING AND PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPINGS FROM DAMAGING ADJACENT SURFACES AND FACILITIES.
  - APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.
  - APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.
  - CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES AND OTHER DEFECTS INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE T-MOBILE CONSTRUCTION MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.
- PAINTING SCOPE
  - PAINT THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE COATING SYSTEM INDICATED.
 

PAINTING SCOPE					
SURFACE TO BE PAINTED	COATING SYSTEM	PAINT	DO NOT PAINT	N/A	
BTS UNIT					
ALL EQUIPMENT & CABINETS OTHER THAN THE BTS UNIT					
ANTENNA COVERS, TILT BRACKETS, MOUNTING BRACKETS AND ASSOCIATED HARDWARE, CABLE AND CABLE COVERS EXPOSED TO VIEW, EXPOSED CONDUIT AND HANGERS, ETC.					
FLASHING UNITS, METAL TRIM AND OTHER METAL SURFACES					
STUCCO, CONCRETE, CONCRETE BLOCK AND CERAMIC TILE FINISH SYSTEMS					
PLYWOOD, LUMBER AND WOOD TRIM INCLUDING THE BACK SIDE OF ALL SCREENWALLS					
ORIGNAL					
CONCRETE POLES					
METAL POLES AND METAL POLE STAND-OFF					
  - COATING SYSTEM SPECIFICATIONS
    - DTM ACRYLIC COATING (SERIES B66) BY SHERWIN WILLIAMS CO. 1MIL DFT PER COAT APPLIED IN TWO COATS OVER DTM BONDING PRIMER (B66A50).
    - 100% ACRYLIC, LATEX COATING EQUIVALENT TO A-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER. PAINT & PRIMER
    - ANTENNAS
      - PRIMER - KEM AQUA E61-W525
      - TOPCOAT - COROTHANE II B65W200/B60V22
    - BTS CABINET
      - PRIMER - KEM AQUA E61-W525
      - TOPCOAT - COROTHANE II B65W200/B60V22
    - COAXIAL JUMPER CABLES
      - PRIMER - AS REQUIRED FOR ADHESION. APPLY ONE COAT OF KEM AQUA WATER REDUCIBLE PRIMER E61W25 REDUCED 25%
      - TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
    - RAW STEEL
      - PRIMER - KEM BOND HS B65W24, DMT ACRYLIC PRIMER
      - TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
    - GALVANIZED METAL
      - ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR PRIMER COAT AND FINISH COAT (GALVITE HIGH SOLIDS OR DTM FINER/FINISH)
    - STAINLESS STEEL
      - PRIMER - OTM WASH PRIMER, B71Y1
      - TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
    - PRE-PRIMED STEEL
      - TOUCH UP ANY RUST OR UN-PRIMED STEEL WITH KEM BOND HS, SSOWZ4
    - ALUMINUM & COPPER
      - PRIMER - DTM WASH PRIMER, B71Y1
      - TOPCOAT - 2 COATS COROTHANE II POLYURETHANE B65W200/B60V2
    - CONCRETE MASONRY
      - PRIMER - PRO MAR EXTERIOR BLOCK FILLER
      - TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH
    - CONCRETE STUCCO(EXISTING)
      - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH
    - STUCCO
      - PRIMER - PRO MAR MASONRY CONDITIONER B-46-W21000
      - TOPCOAT - SUPERPAINT A-80 SERIES A-89 SATIN A-84 GLOSS
    - WOOD
      - PRIMER - A-100 EXTERIOR ALKYD W009D PRIMER Y-24W20
      - TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM SHEEN TO MATCH ADJACENT SURFACES
    - FIELD CUTS/DAMAGE(PRIOR TO PRIME & PAINT)
      - FIRST & SECOND COAT - CUPRINOL CLEAR WOOD PRESERVATIVE #158-0356
      - ALL PENETRATIONS INTO FINISHED CLU-LAMS SHALL BE CAULKED WITH "SIKAFLEX" SEALANT
    - STEEL TOUCH UP
      - STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZED PAINT

## ROOFING & WATERPROOFING NOTES

- CONTRACTOR SHALL CONTACT BUILDING OWNER TO DETERMINE IF ROOF IS UNDER WARRANTY. CONTRACTOR SHALL GUARANTEE THAT ANY AND ALL NEW ROOFING WORK MEETS THE SPECIFICATION OF ANY EXISTING ROOFING WARRANTIES SUCH THAT THE WARRANTY IS NOT MADE INVALID AS A RESULT OF THIS WORK. IF IT IS DETERMINED THAT THE ARCHITECT'S DETAILING IS INADEQUATE OR IMPROPER OR IF ANY OTHER DISCREPANCY IS FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE T-MOBILE PROJECT MANAGER IN WRITING. ULTIMATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE ORIGINAL ROOF MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR SHALL USE METHODS AND MATERIALS SIMILAR AND COMPATIBLE WITH EXISTING MATERIALS & CONDITIONS FOR ROOF PATCHING, NEW PENETRATIONS, ETC.
- THE CONTRACTOR SHALL PROPERLY SEAL ALL NEW ROOF & BUILDING ENVELOPE PENETRATIONS SUCH THAT THE INTEGRITY OF THE ORIGINAL BUILDING ASSEMBLY AND ALL APPLICABLE WARRANTIES ARE MAINTAINED.
- IF IT DEEMED NECESSARY TO REMOVE EXISTING FINISHES AND/OR MATERIALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING FINISHES AND MATERIALS TO LIKE-NEW CONDITION. CONTRACTOR SHALL MAINTAIN THE ORIGINAL COLORS, TEXTURES & FINISHES UNLESS SPECIFICALLY NOTED TO THE CONTRARY OR APPROVED BY THE T-MOBILE CONSTRUCTION MANAGER IN ADVANCE.
- AT THE T-MOBILE CONSTRUCTION MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE ROOFTOP WALKPADS TO ALL NEW EQUIPMENT INCLUDING ANTENNAS AND BTS UNITS AND ALONG COAX CABLE ROUTING. ON CONVENTIONAL ROOFING, THE WALK PADS SHALL BE "DUCK BOARDS" AS MANUFACTURED BY APC OR EQUAL. ON SPECIAL ROOFING SYSTEMS SUCH AS SINGLE MEMBRANE ROOFS WILL REQUIRE A SPECIFIC PRODUCT AS NOTED ON PLANS OR AS REQUIRED BY NOTES 1 & 2 ABOVE.

## PENETRATION AT FIRE RATED ASSEMBLIES

- AT THE T-MOBILE PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "HILTI" HIGH PERFORMANCE FIRESTOP SYSTEM #FS601 AT ALL FIRE RATED PENETRATIONS INSTALLED PER MANUFACTURER'S LATEST INSTALLATION SPECIFICATIONS.
- ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.

## STRUCTURAL SPECIFICATIONS

- GENERAL
 

PRECEDENCE: UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY. INFORMATION ON THESE DRAWINGS SHALL HAVE THE FOLLOWING PRECEDENCE.

  - ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
  - NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
  - MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.
- OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
- GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.
- SHORING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS IN IT'S COMPLETED FORM. THIS INCLUDES UNDERPINNING EXISTING FOOTINGS WHERE APPLICABLE.
- SAFETY: THESE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
- WATERPROOFING: WATERPROOFING AND DRAINAGE, DETAILS AND SPECIFICATIONS, ALTHOUGH SOMETIMES SHOWN ON STRUCTURAL DRAWING ARE OF GENERAL INFORMATION PURPOSES ONLY. WATERPROOFING AND DRAINAGE ARE SOLELY THE DESIGN RESPONSIBILITY OF THE ARCHITECT.
- STEEL
  - ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM A-36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.
  - ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED ON PLANS. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A-325
  - STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM A53.
  - STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500.
  - ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD. ALL WELDERS SHALL BE PROPERLY QUALIFIED AND BE PRE-APPROVED. SURPLUS METAL SHALL BE DRESSED OFF TO SMOOTH, EVEN SURFACES WHERE WELDS ARE NOT EXPOSED TO VIEW. ALL WELDING SHALL COMPLY WITH THE LATEST A.W.S. SPECIFICATIONS.
  - THE FOLLOWING WELDING EQUIPMENT MUST BE USED:
    - 250 AMP WELDERS.
    - ROD OVENS.
    - GRINDERS.
  - NO BUZZ BOXES SHALL BE USED.
  - ALL STRUCTURAL STEEL SHALL MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.
  - ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION. MILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.
  - STEEL THAT HAD BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.
  - WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS SPECIFICALLY NOTED "FULL STRESS" AT END OF WELD SYMBOL.
- CONCRETE
  - STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS:
 

LOCATION	STRENGTH	WT.	SLUMP	ADMIXTURE
A. SLAB&FOOTING	3000psi	150pcf	4"	NONE
  - INSPECTION: CONCRETE WITH SPECIFIED STRENGTH GREATER THAN 2500psi SHALL BE CONTINUOUSLY INSPECTED DURING PLACEMENT BY A DEPUTY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE BUILDING DEPT.
  - REBAR GRADES: REINFORCING STEEL SHALL BE CLEAN PREFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:
    - #4 & SMALLER BARS.....GRADE 40
    - #5 & LARGER BARS.....GRADE 60
    - ALL BARS AT CAISSON FOOTING...GRADE 60
  - CEMENT: FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150. PIER/CAISSON FOOTINGS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
  - AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE FOLLOWING:
    - FOUNDATIONS & SLABS 9" OR LESS: 3/4" GRAVEL
    - PIER/CAISSON FOOTING: 1" GRAVEL.
  - WATER: SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS, ORGANIC MATERIALS AND SHALL BE SUITABLE FOR HUMAN CONSUMPTION.
- MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C-94. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY A TESTING AGENCY.
- SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE FLOPPED THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS, CAISSON, AND DROP CAPITALS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES, TRUNKS OR PUMP HOSE SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FT.
- SPLICES OF REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 30 DIAMETERS AND SECURELY WIRED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED WHEREVER POSSIBLE.
- REAR CLEARANCE: MINIMUM COVERAGE FOR JOISTS, BEAMS, GIRDERS AND COLUMNS SHALL BE TO FACE OF STIRRUPS OR TIES. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE FOR REINFORCING BARS TO FACE OF BAR SHALL BE AS FOLLOWS:
 

A. CONCRETE IN CONTACT WITH EARTH, UNFORMED	3"
B. CONCRETE IN CONTACT WITH EARTH, FORMED	2"
C. WALL, EXTERIOR FACE	1-1/2"
D. WALL, INTERIOR FACE	1"
E. STRUCTURAL SLABS	3/4"
F. JOISTS	3/4"
G. BEAMS, GIRDERS & COLUMNS	1-1/2"
- PENETRATIONS: NO SLEEVES OR CHASES SHALL BE PLACED IN BEAMS, SLABS, WALLS AND COLUMNS, EXCEPT THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATIONS OF ANY ADDITIONAL SLEEVES OR CHASES. ALL PLUMBING, ELECTRICAL AND MECHANICAL OPENINGS SHALL BE SLEEVES. CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
- EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/4 THE THICKNESS OF THE SLAB. CONDUIT SHALL NOT BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK. UNLESS SLAB IS LOCALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE SIX INCHES.
- ANCHORING: ALL ANCHOR BOLTS, REINFORCING STEEL, DOWELS, INSERTS, ETC. SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. NO REPOSITIONING DURING CONCRETE POUR IS ALLOWED.
- CURING: SLABS SHALL BE SPRAYED WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUNDS USED ON CONCRETE WHERE TILE OR FLOOR COVERING IS TO BE BONDED TO THE CONCRETE SURFACE SHALL BE APPROVED BY THE TILE OR FLOOR COVERING MANUFACTURER. KEEP SLAB WET FOR 7 DAY MINIMUM PERIOD.
- CONSOLIDATION: ALL CONCRETE SHALL BE VIBRATED AS IT IS BEING PLACED WITH ELECTRICALLY OPERATED VIBRATING EQUIPMENT.
  - TIMBER
  - ALL FRAMING LUMBER FOR 4X AND LARGER BEAMS SHALL BE NO. 1 GRADE DOUGLAS FIR, S45, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
  - ALL FRAMING LUMBER FOR 2X RAFTERS AND JOISTS SHALL BE NO.2 GRADE DOUGLAS FIR, S45, UNLESS NOTED OTHERWISE ON DRAWINGS
  - STRIPPING, BLOCKING, BACKING AND OTHER NON-STRUCTURAL LUMBER SHALL BE NO. 2 OR STD & BTR GRADE DOUGLAS FIR, S45. 2X4 STUD WALLS SHALL BE D.F. STANDARD & BTR.
  - ALL BEAMS, JOISTS AND RAFTERS SHALL BE INSTALLED WITH CROWN SIDE UP.
  - ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A SPAN INDEX RATIO 32/16. EDGE NAIL WITH 8d AT 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. FGIELD NAIL WITH 8d AT 12" O.C.
  - PLYWOOD SHEETS SHALL BE LAID WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS AND WITH THE EDGES STAGGERED, UNLESS NOTED OTHERWISE ON THE PLANS.
  - PLYWOOD SHALL BE GRADE MARKED BY DFPA, TECO, OR PTL AND SHALL CONFORM TO PS 1-83.
  - THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 24% AT THE TIME OF INSTALLATION.
  - MINIMUM NAILING SHALL COMPLY WITH TABLE 23-1-q OF BUILDING CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.
  - ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.
  - LAG BOLTS SHALL BE SCREWED INTO PLACE, NOT DRIVEN. LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES WITH A DIAMETER EQUAL TO 75% DIAMETER OF BOLT.
  - CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN THE PLANS SHALL BE STRONG CONNECTORS AS MANUFACTURED BY THE SAMSON COMPANY. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY THE STRUCTURAL ENGINEER.
  - ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE WOLMANIZED PRESSURE TREATED LUMBER OR A NATURALLY DECAY RESISTANT LUMBER SUCH AS REDWOOD OR CEDAR.
  - ALASKAN YELLOW CEDAR GLUE-LAMINATED BEAMS
    - LUMBER SPECIES: ALASKAN YELLOW CEDAR (A.C.) CONFORMING TO 20F-V12
    - STRENGTH PROPERTIES:
      - Fb BOTTOM FIBER BENDING STRESS 2000psi MIN.
      - Ft TOP FIBER BENDING STRESS 1000psi MIN.
      - Fv SHEAR STRESS 190psi MIN.
      - Fc COMPRESSION STRESS PERPENDICULAR TO GRAIN 560psi MIN.
      - E MODULUS ELASTICITY 1400ksi MIN.
    - CAMBER TO RADIUS OF 1600' U.O.N.
    - ALL GLB'S SHALL BE FABRICATED WITH EXTERIOR GLUE.
    - MANUFACTURE OF GLB'S SHALL CONFORM TO THE UBC.
    - GLU-LAM MATERIAL SHALL BE IN ACCORDANCE WITH ANSI/AITC A190.1 AND ASTM D3737.

**T-Mobile**

3257 E. GUASTI ROAD #200  
ONTARIO, CA 91761

**CROWN CASTLE**

38 TECHNOLOGY DRIVE, SUITE 250  
IRVINE, CA 92618

PLANS PREPARED BY:

**PDC CORPORATION**

**CID**

13225 DANIELSON ST, SUITE 200  
POWAY, CA 92064  
TEL: (858) 668-2828  
FAX: (858) 668-2827

REGISTERED PROFESSIONAL ENGINEER

SHAH SHAH

No. C60216

EXP. 06-30-16

CIVIL ENGINEER

STATE OF CALIFORNIA

DATE SIGNED: 11/11/15

NO.	DATE:	DESCRIPTION:	BY:
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0	11/11/15	100% CD	SVF

CROWN CASTLE BU NUMBER

**828462**

SITE ID NUMBER

**LA02382A**

SITE NAME

**TMT LA066 710/WOOD AVE**

SITE ADDRESS

4425 E. OLYMPIC BLVD.  
LOS ANGELES, CA 90023

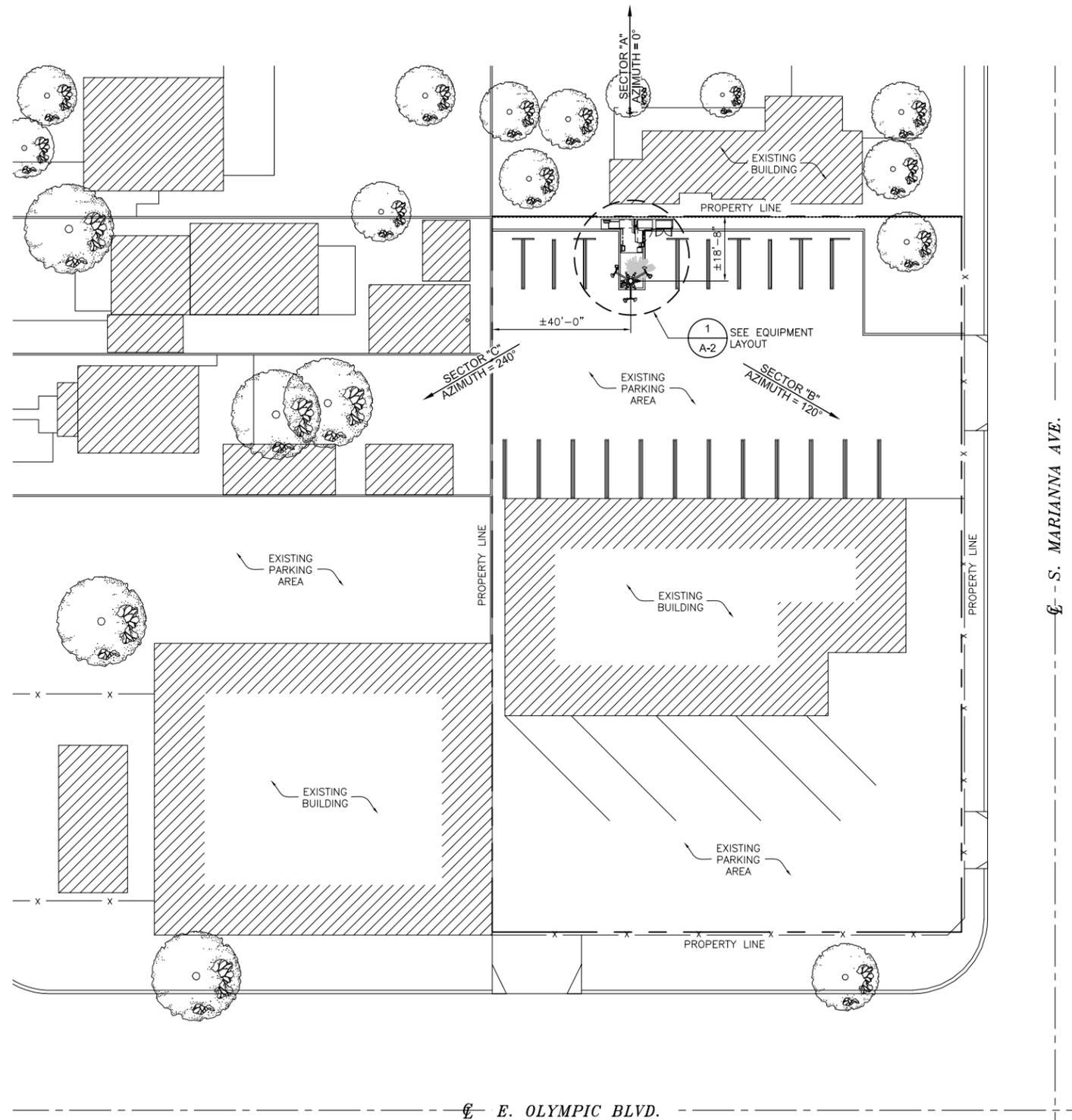
SHEET TITLE

**SPECIFICATIONS & NOTES**

SHEET NUMBER

**T-2**

SCALE NOTE:  
 IF DIMENSIONS SHOWN ON PLAN DO NOT  
 SCALE CORRECTLY, CHECK FOR REDUCTION  
 OR ENLARGEMENT FROM ORIGINAL PLANS.



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SHEET TITLE

**SITE PLAN**

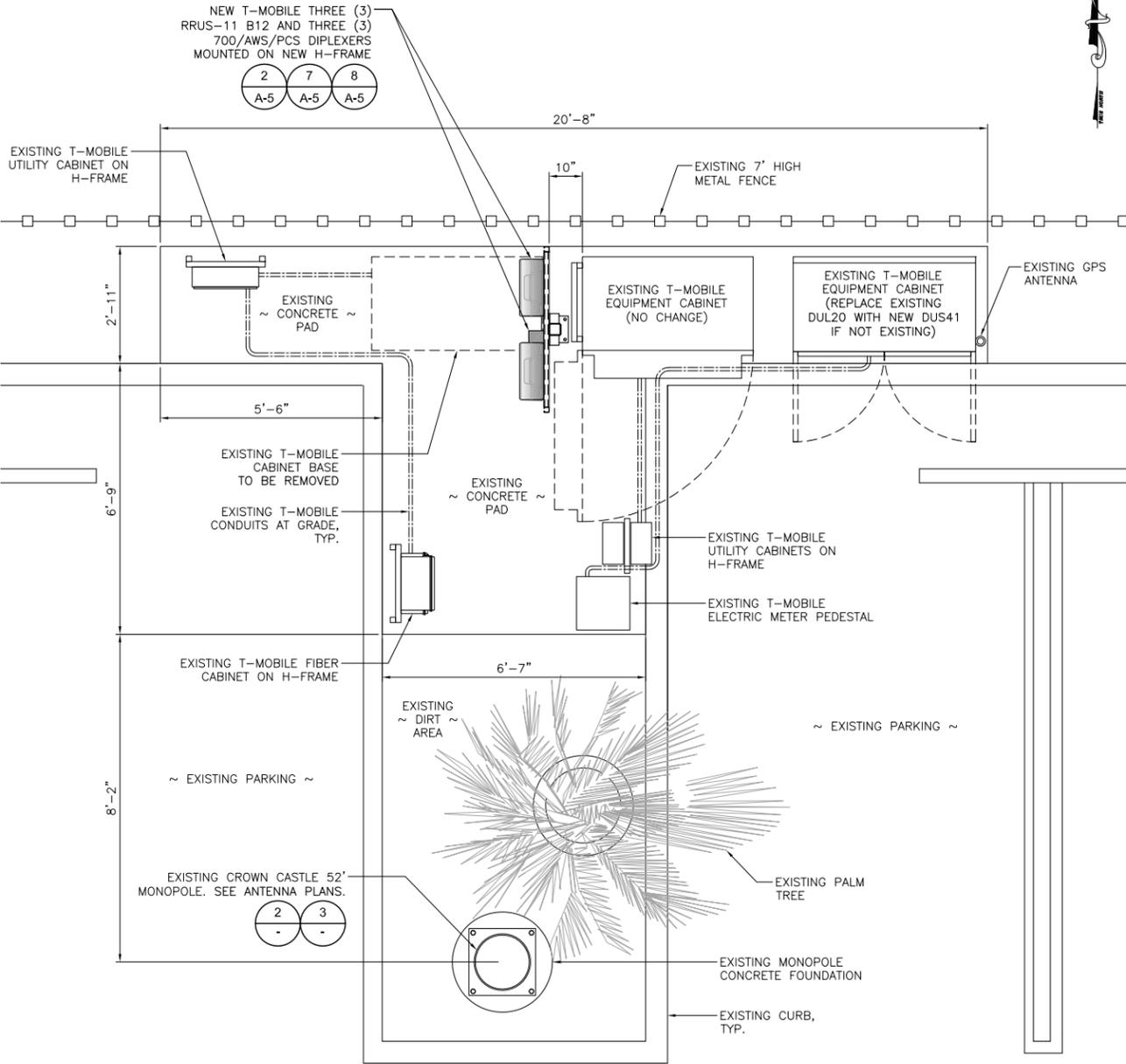
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**A-1**



**SCALE NOTE:**

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**EQUIPMENT LAYOUT**

24"x36" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0"

**EXISTING ANTENNA / CABLE SCHEDULE**

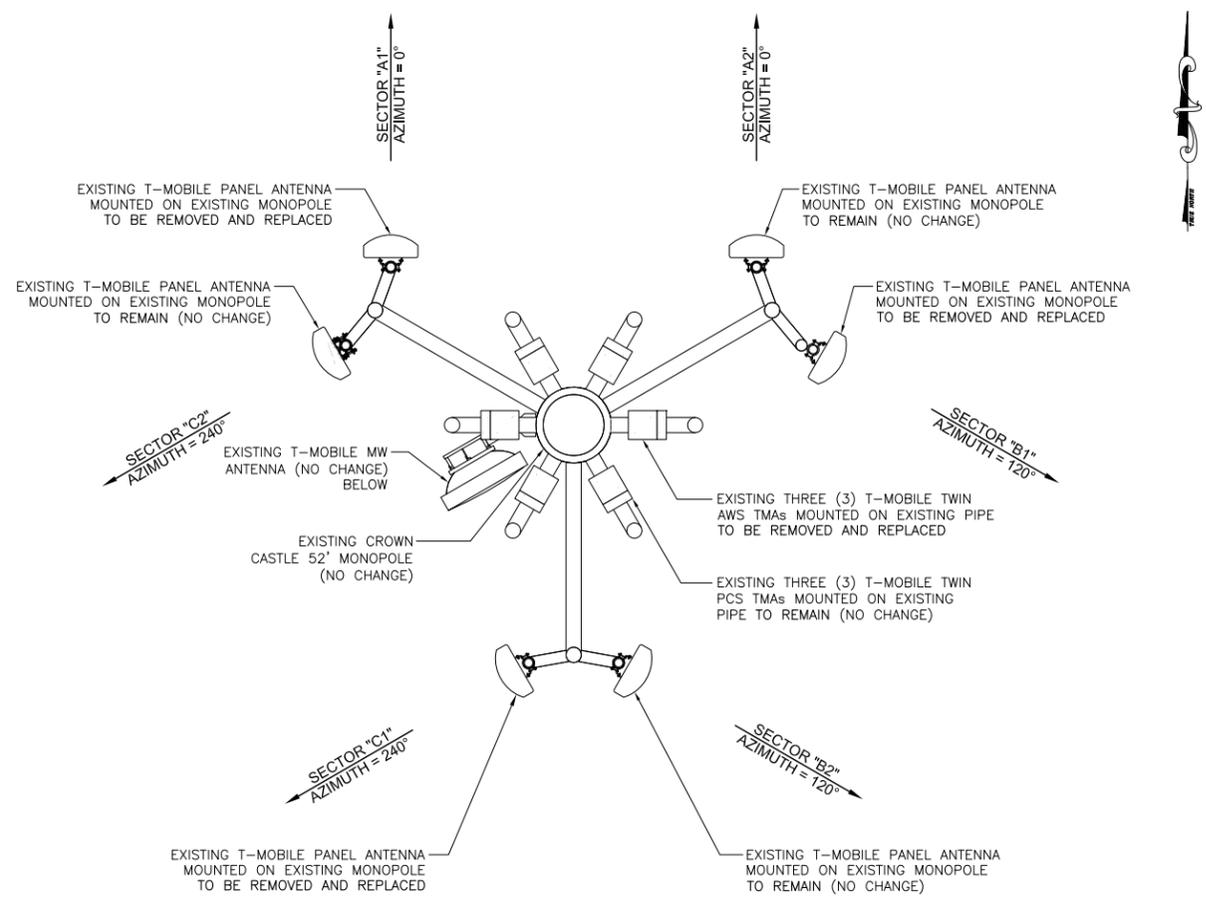
SECTOR	ANTENNA				RRU				TMA				DIPLEXER				COAX				FIBER			
	MODEL	SIZE	AZIMUTH	RAD CENTER	QTY.	MODEL	QTY.	MODEL	QTY.	MODEL	QTY.	TYPE	LENGTH	QTY.	TYPE	LENGTH	QTY.	TYPE	LENGTH	QTY.	TYPE	LENGTH		
A	932QLG65R2EB	±4'-0"	0°	58'-0"	-	-	1	TWIN AWS	-	-	2	7/8" ±100'	-	-	-	-	-	-	-	-	-	-		
	932QLG65R2EB	±4'-0"	0°	58'-0"	-	-	1	TWIN PCS	-	-	2	7/8" ±100'	-	-	-	-	-	-	-	-	-	-		
B	932QLG65R2EB	±4'-0"	120°	58'-0"	-	-	1	TWIN AWS	-	-	2	7/8" ±100'	-	-	-	-	-	-	-	-	-	-		
	932QLG65R2EB	±4'-0"	120°	58'-0"	-	-	1	TWIN PCS	-	-	2	7/8" ±100'	-	-	-	-	-	-	-	-	-	-		
C	932QLG65R2EB	±4'-0"	240°	58'-0"	-	-	1	TWIN AWS	-	-	2	7/8" ±100'	-	-	-	-	-	-	-	-	-	-		
	932QLG65R2EB	±4'-0"	240°	58'-0"	-	-	1	TWIN PCS	-	-	2	7/8" ±100'	-	-	-	-	-	-	-	-	-	-		

**NEW ANTENNA / CABLE SCHEDULE - RFDS VERSION 12 [E\_704Au\_002\_Modified]**

SECTOR	ANTENNA				RRU				TMA				DIPLEXER				COAX				FIBER			
	MODEL	SIZE	AZIMUTH	RAD CENTER	QTY.	MODEL	QTY.	MODEL	QTY.	MODEL	QTY.	TYPE	LENGTH	QTY.	TYPE	LENGTH	QTY.	TYPE	LENGTH	QTY.	TYPE	LENGTH		
A	SBNH-1D65C-V1	±8'-0"	0°	56'-0"	1	RRUS-11 B12	1	STYLE 3C	1	700/AWS/PCS DIPLEXER	2	7/8" ±100'	-	-	-	-	-	-	-	-	-	-		
	932QLG65R2EB	±4'-0"	0°	58'-0"	-	-	1	TWIN PCS	-	-	2	7/8" ±100'	-	-	-	-	-	-	-	-	-	-		
B	SBNH-1D65C-V1	±8'-0"	120°	56'-0"	1	RRUS-11 B12	1	STYLE 3C	1	700/AWS/PCS DIPLEXER	2	7/8" ±100'	-	-	-	-	-	-	-	-	-	-		
	932QLG65R2EB	±4'-0"	120°	58'-0"	-	-	1	TWIN PCS	-	-	2	7/8" ±100'	-	-	-	-	-	-	-	-	-	-		
C	SBNH-1D65C-V1	±8'-0"	240°	56'-0"	1	RRUS-11 B12	1	STYLE 3C	1	700/AWS/PCS DIPLEXER	2	7/8" ±100'	-	-	-	-	-	-	-	-	-	-		
	932QLG65R2EB	±4'-0"	240°	58'-0"	-	-	1	TWIN PCS	-	-	2	7/8" ±100'	-	-	-	-	-	-	-	-	-	-		

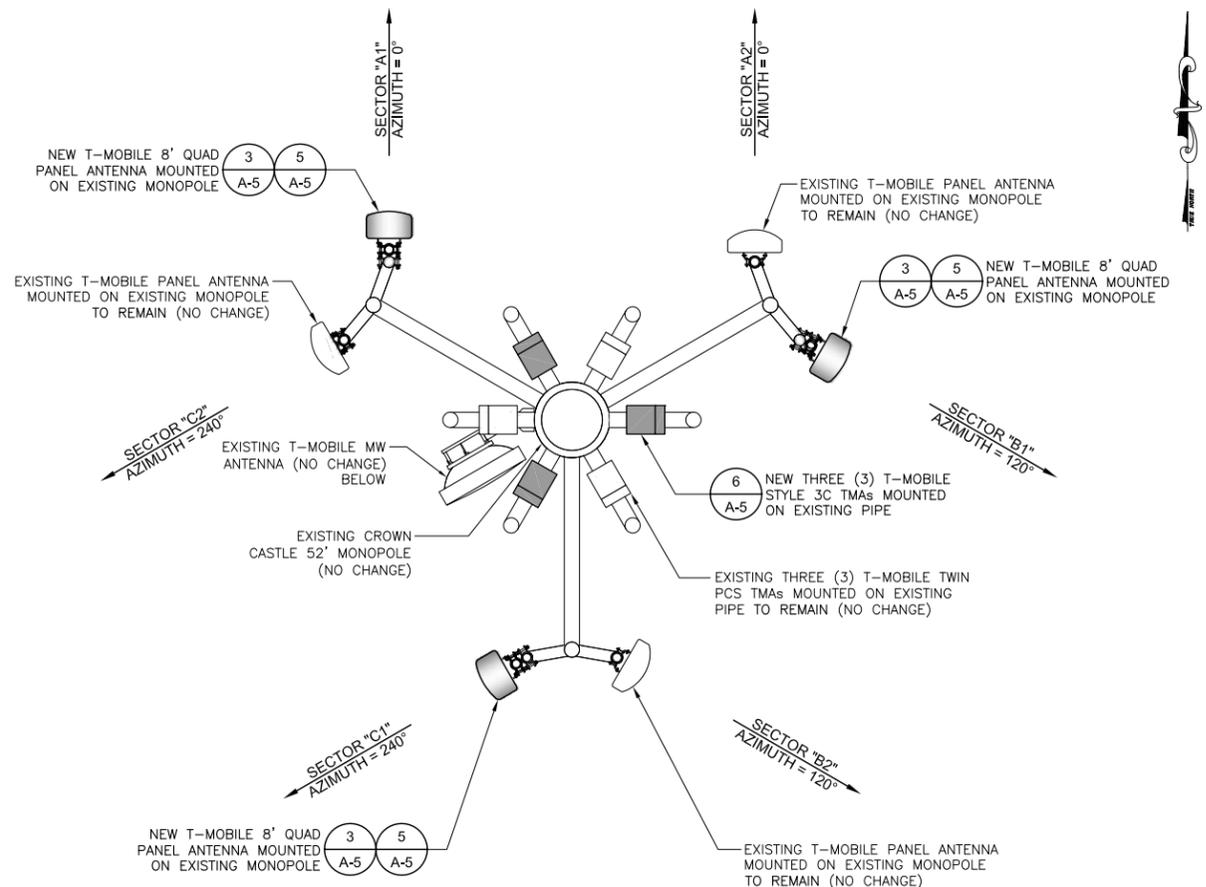
**ANTENNA SCHEDULE**

1



**EXISTING ANTENNA PLAN**

24"x36" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0"



**NEW ANTENNA PLAN**

24"x36" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0"

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**CROWN CASTLE**

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IRVINE, CA 92618

PLANS PREPARED BY:

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**CID**

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REGISTERED PROFESSIONAL ENGINEER

SHAIL SHAI

No. C60216

EXP. 06-30-16

CIVIL

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CROWN CASTLE BU NUMBER

**828462**

SITE ID NUMBER

**LA02382A**

SITE NAME

**TMT LA066 710/WOOD AVE**

SITE ADDRESS

4425 E. OLYMPIC BLVD.  
LOS ANGELES, CA 90023

SHEET TITLE

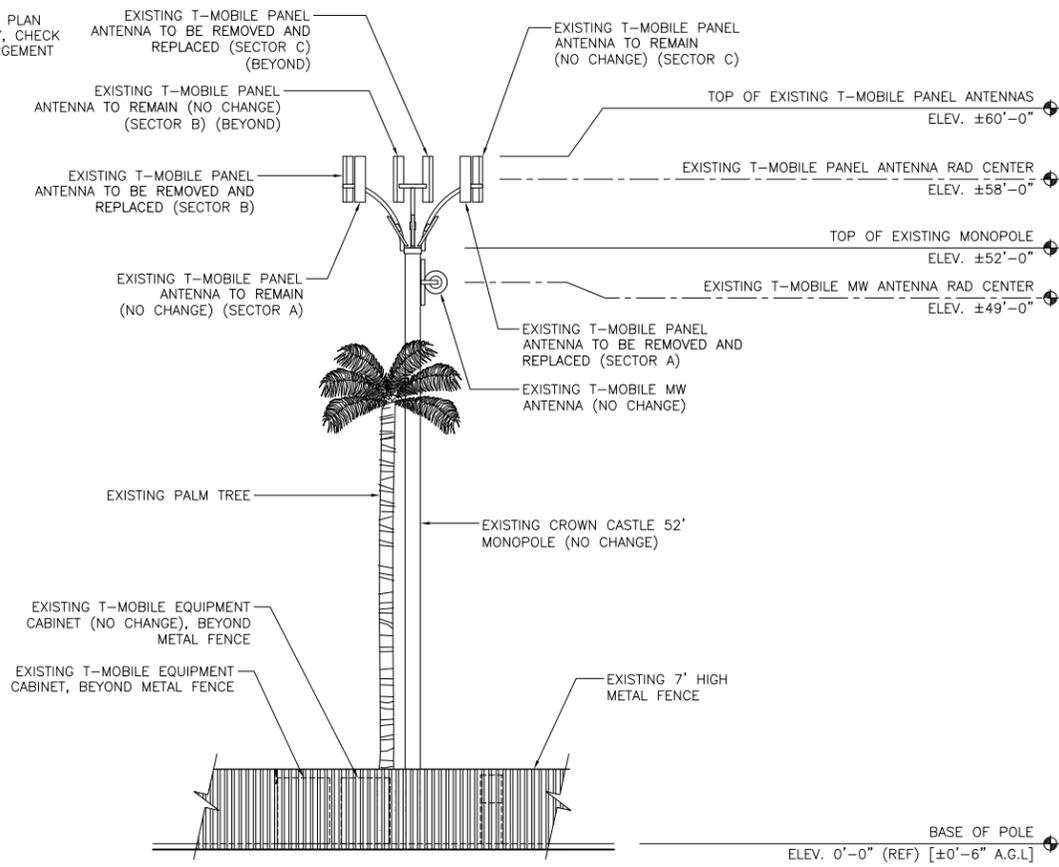
**EQUIPMENT LAYOUT AND ANTENNA PLANS**

SHEET NUMBER

**A-2**

**SCALE NOTE:**

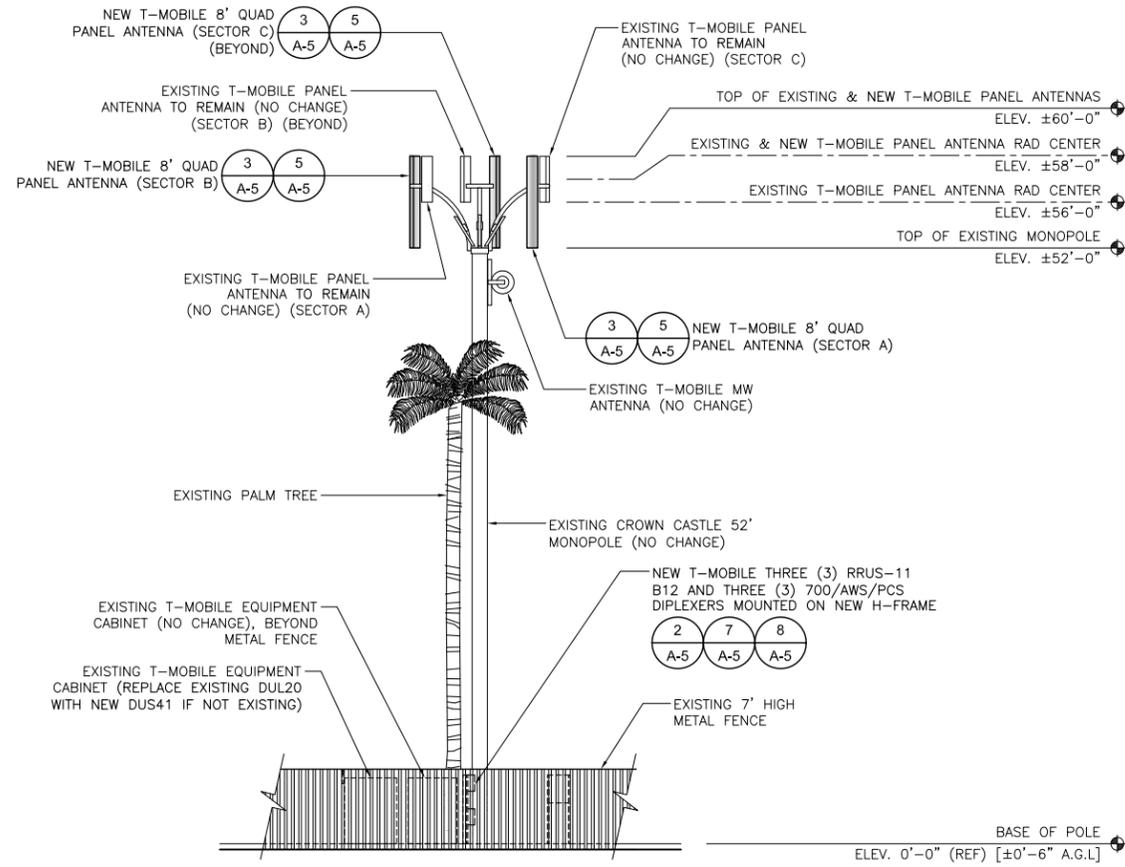
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.



**EXISTING NORTH ELEVATION**

24"x36" SCALE: 1/8" = 1'-0"  
11"x17" SCALE: 1/16" = 1'-0"  
8' 6" 4" 2" 0" 8'

**1**



**NEW NORTH ELEVATION**

24"x36" SCALE: 1/8" = 1'-0"  
11"x17" SCALE: 1/16" = 1'-0"  
8' 6" 4" 2" 0" 8'

**2**

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**CD**  
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SEAL  
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CROWN CASTLE BU NUMBER  
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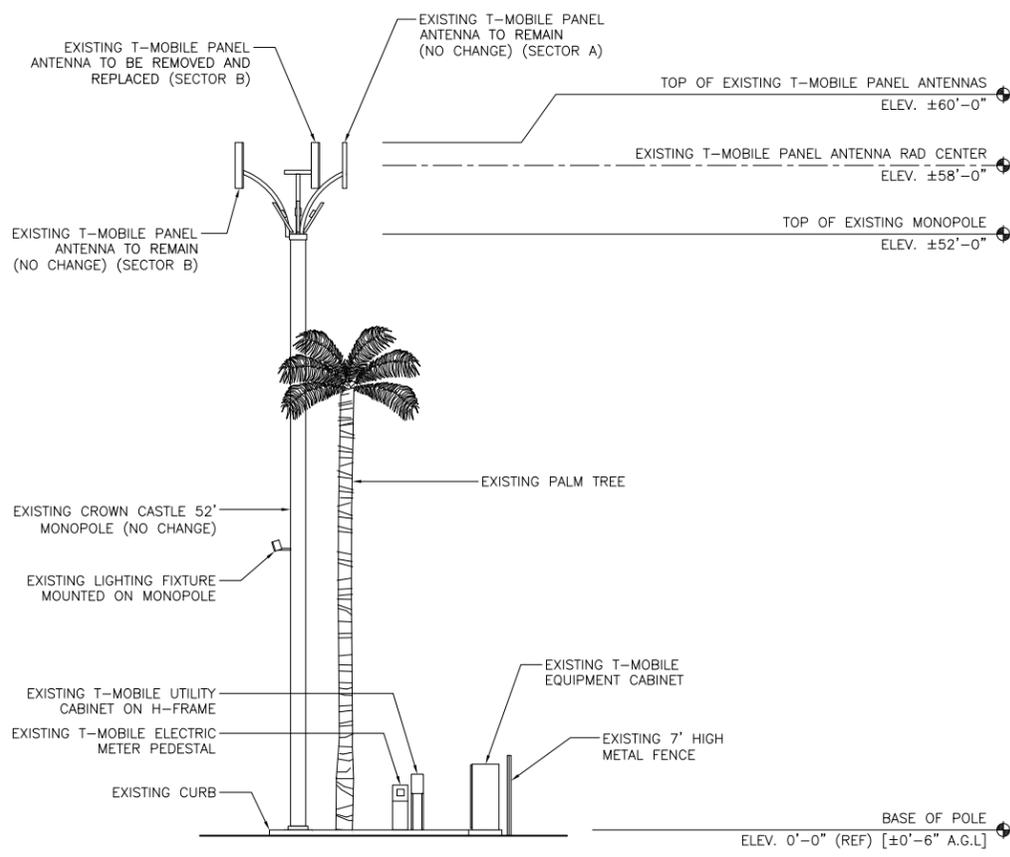
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SHEET TITLE  
**ELEVATIONS**

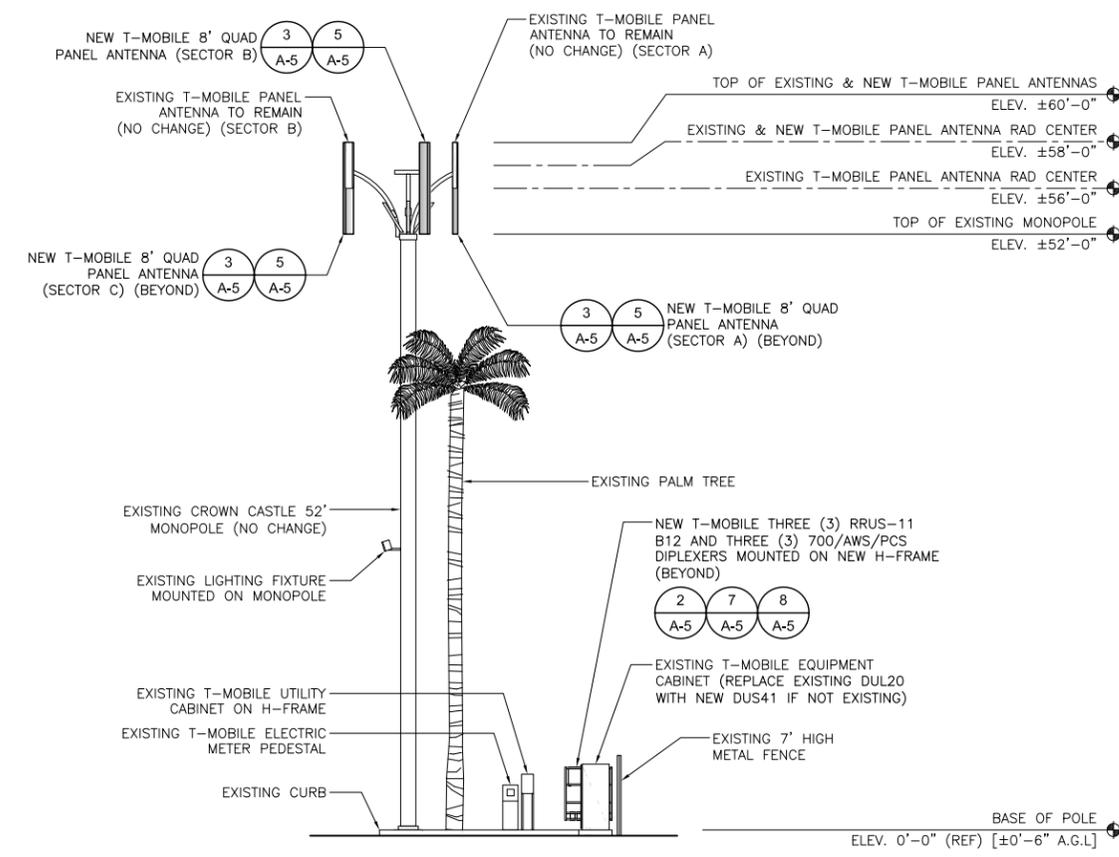
SHEET NUMBER  
**A-3**



**EXISTING EAST ELEVATION**

24"x36" SCALE: 1/8" = 1'-0"  
11"x17" SCALE: 1/16" = 1'-0"  
8' 6" 4" 2" 0" 8'

**3**



**NEW EAST ELEVATION**

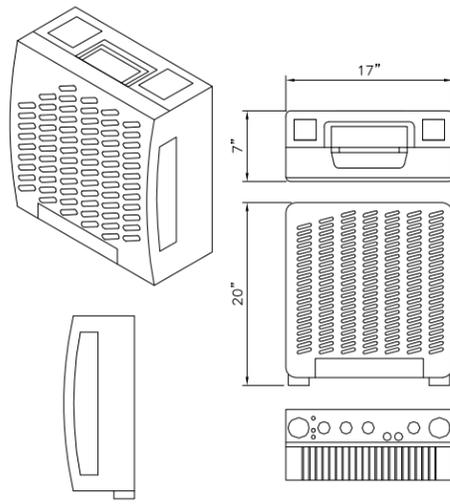
24"x36" SCALE: 1/8" = 1'-0"  
11"x17" SCALE: 1/16" = 1'-0"  
8' 6" 4" 2" 0" 8'

**4**



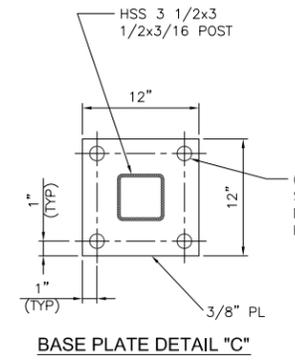
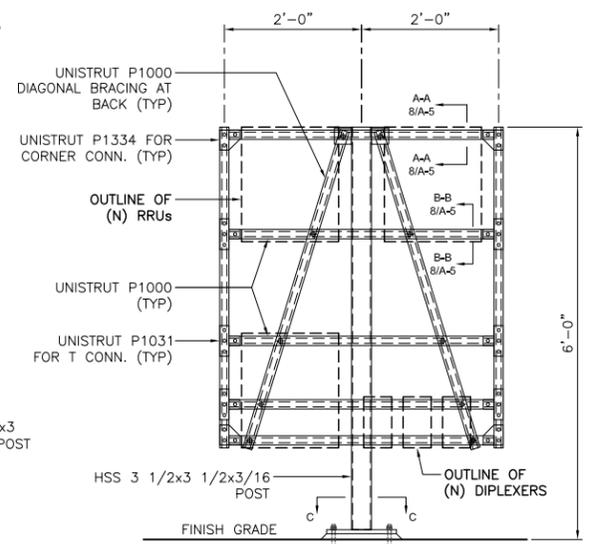
**ERICSSON RRUS-11 B12**

DIMENSIONS, WxDxH: 17"x7"x20"  
 POWER CONSUMPTION: 200 WATTS  
 TOTAL WEIGHT: 50.7 LBS  
 TEMPERATURE: -104° TO 131° F  
 WIND LOADING: 76.4 LBF (FRONT)

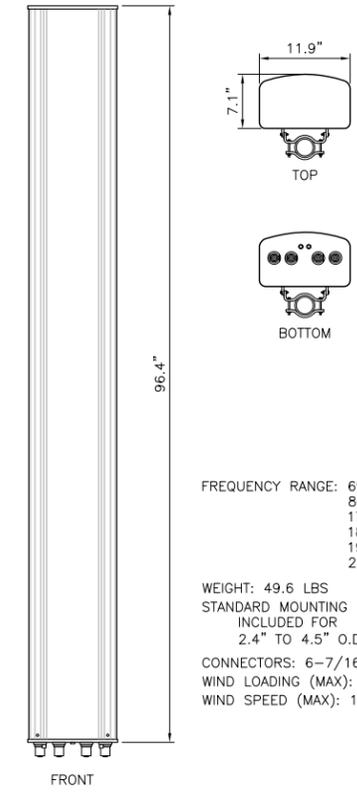


**STRUCTURAL STEEL NOTES:**

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 AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (3/4" DIA) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.



**NOTE:**  
 CONTRACTOR TO VERIFY EXISTING CONCRETE SLAB IS 4" THICK MIN.



FREQUENCY RANGE: 698-806 MHz  
 806-896 MHz  
 1710-1880 MHz  
 1850-1990 MHz  
 1920-2180 MHz  
 2300-2360 MHz

WEIGHT: 49.6 LBS  
 STANDARD MOUNTING HARDWARE: INCLUDED FOR 2.4" TO 4.5" O.D. MAST  
 CONNECTORS: 6-7/16 DIN FEMALE  
 WIND LOADING (MAX): 197.6 LBF @ 94 MPH  
 WIND SPEED (MAX): 150 MPH

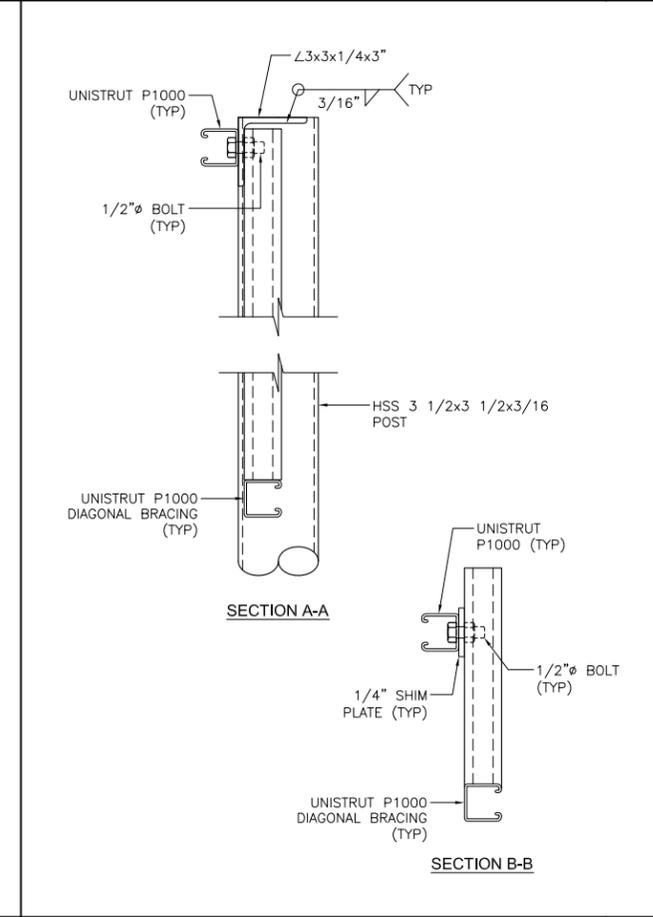
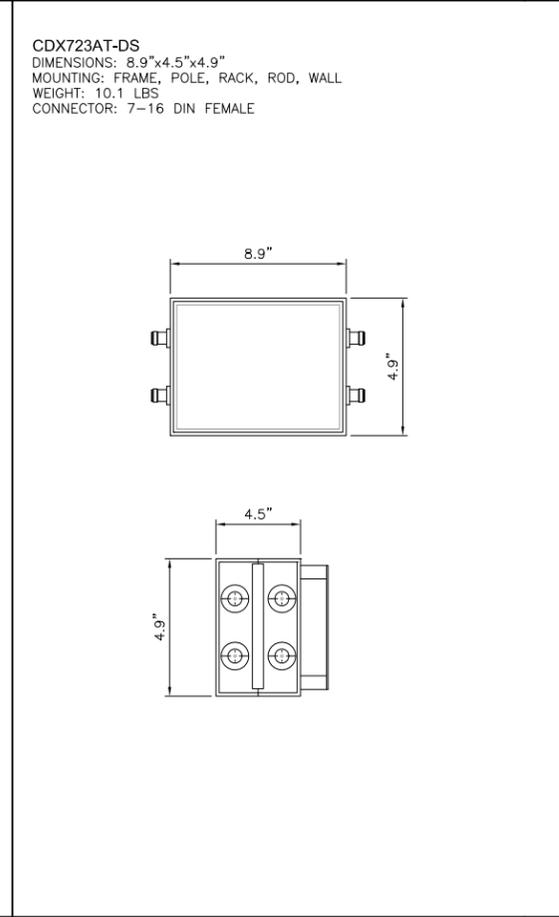
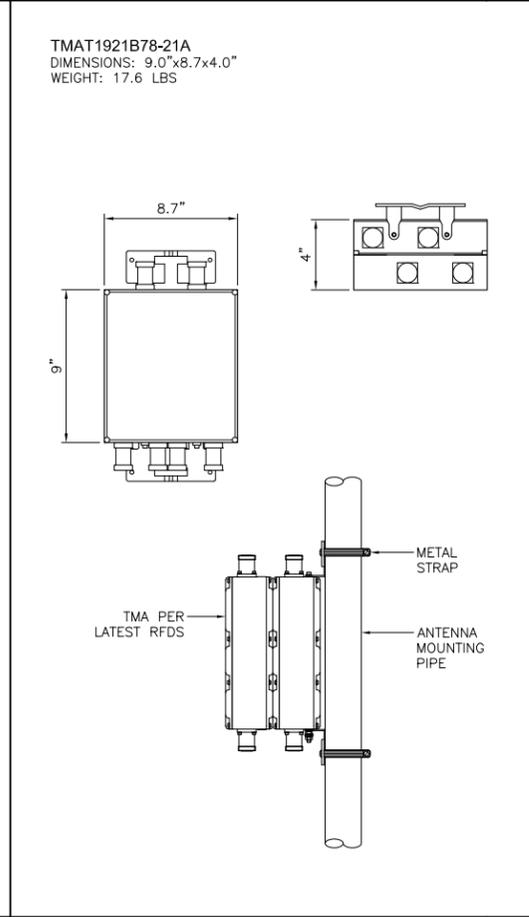
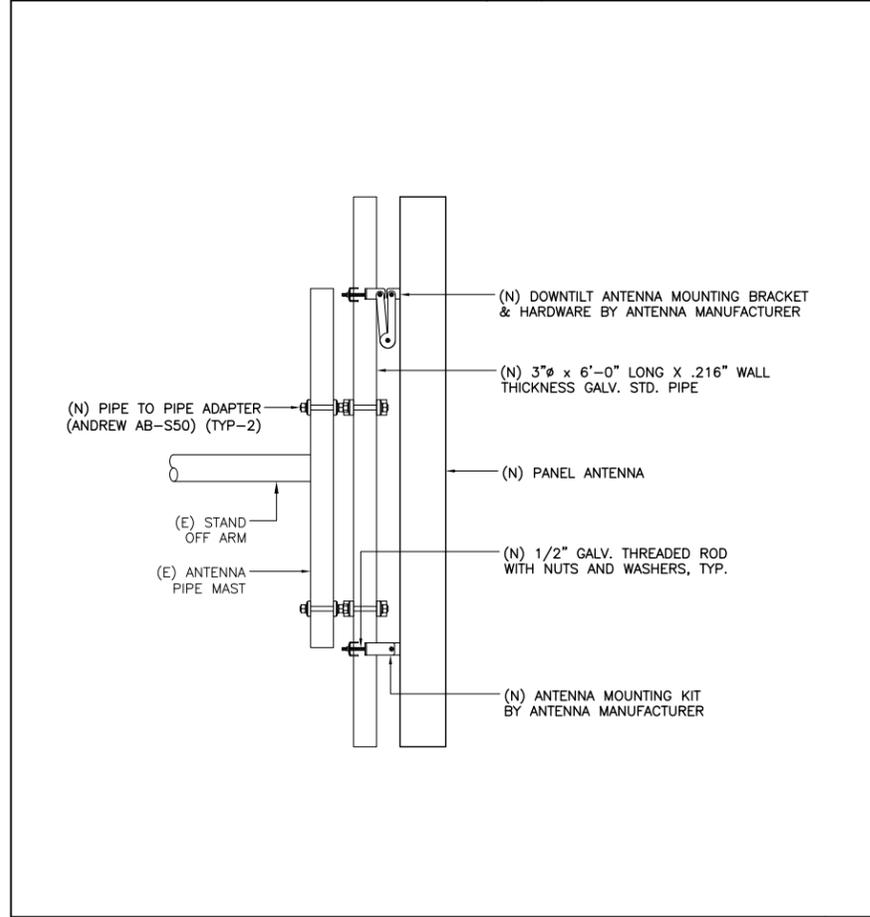
**T-Mobile**  
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SEAL  
  
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**RRU DETAIL      1      H-FRAME DETAIL FOR RRU      2      QUAD PANEL ANTENNA DETAIL      3      NOT USED      4**



**ANTENNA MOUNTING DETAIL      5      TMA DETAIL      6      DIPLEXER DETAIL      7      CONNECTION DETAILS      8**

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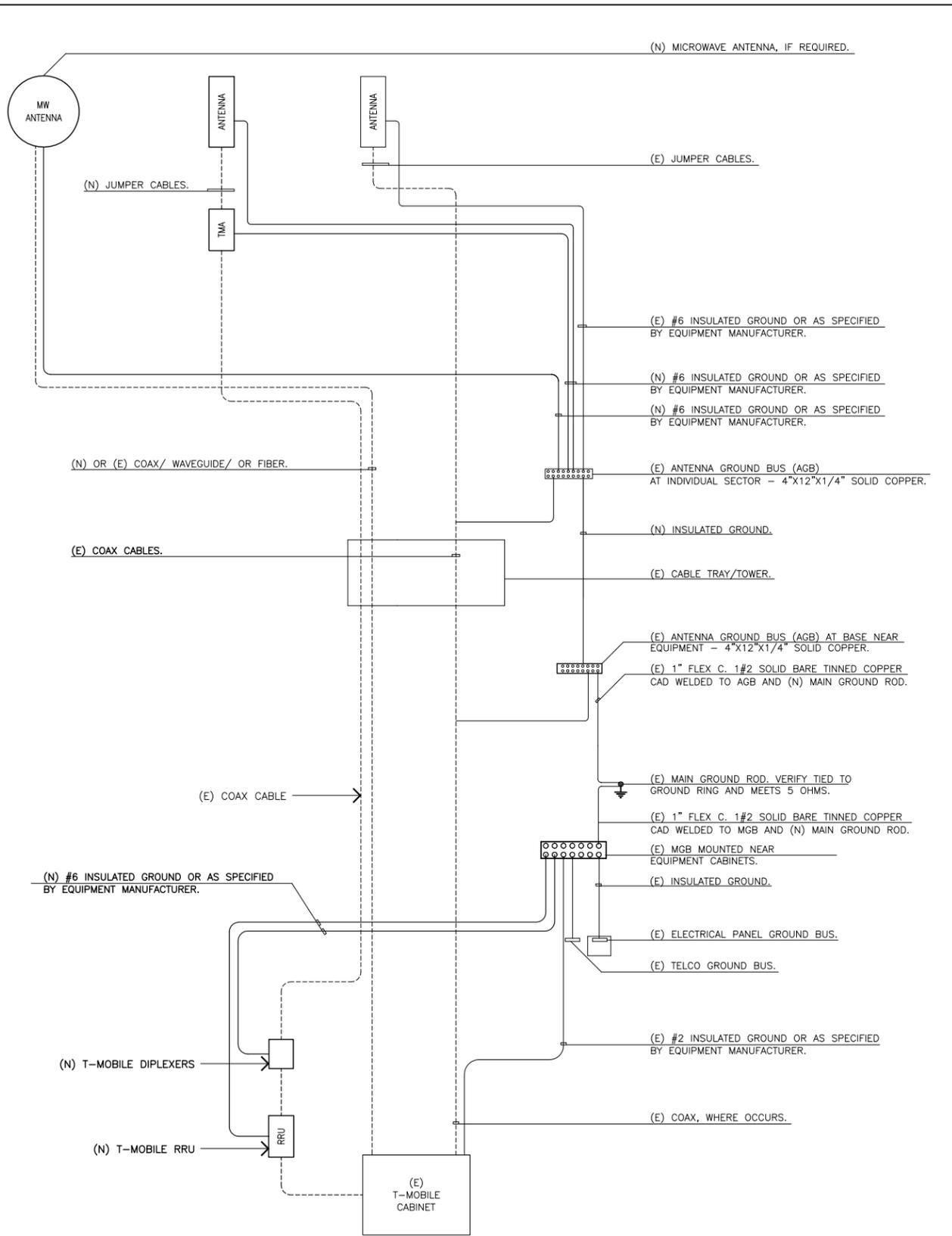
SITE ID NUMBER  
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SITE NAME  
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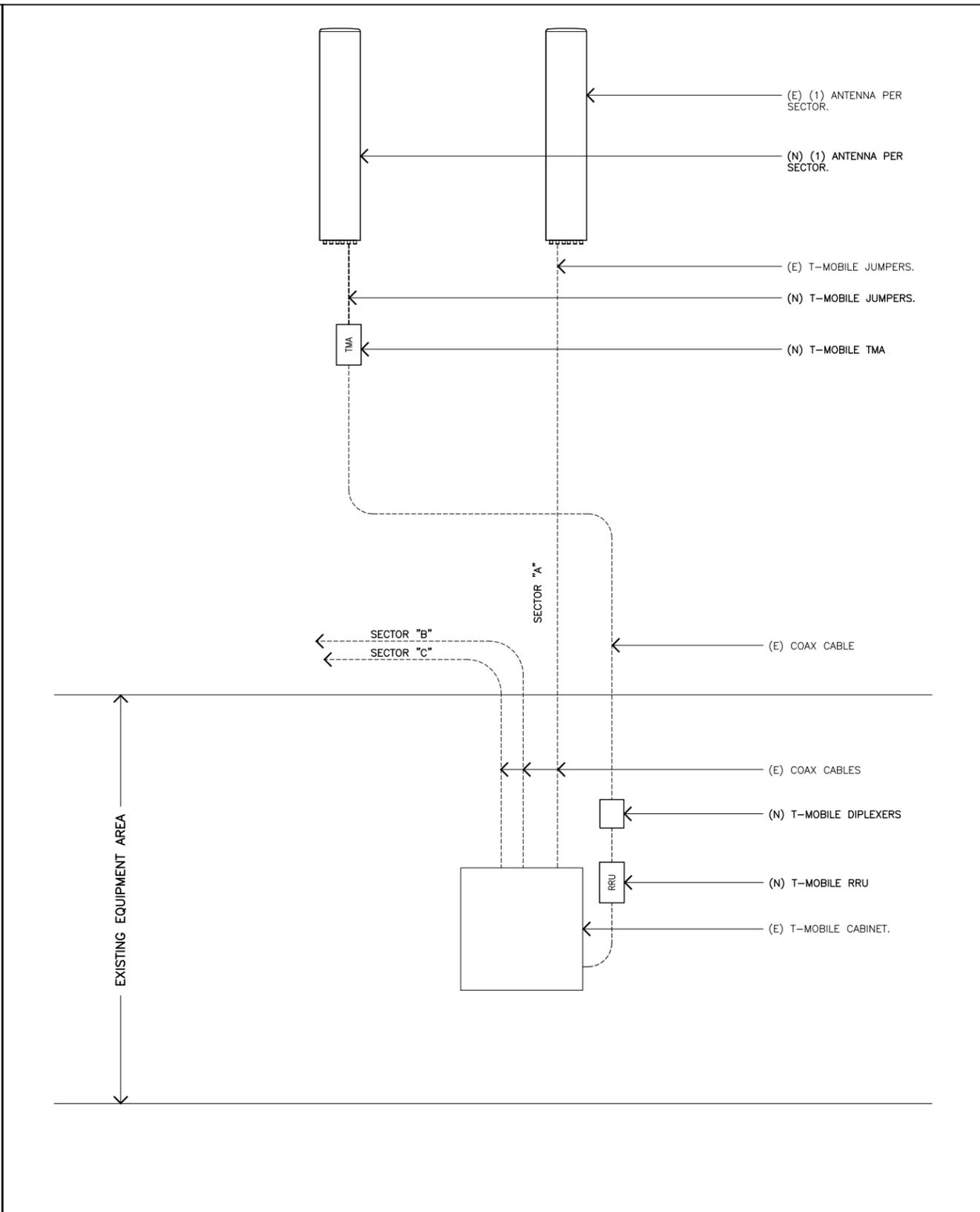
SITE ADDRESS  
 4425 E. OLYMPIC BLVD.  
 LOS ANGELES, CA 90023

SHEET TITLE  
**EQUIPMENT DETAILS**

SHEET NUMBER  
**A-5**



- GENERAL NOTES:**
1. SPLICE GROUND CONNECTIONS.
  2. FOLLOW COAXIAL CABLE MANUFACTURES RECOMMENDATIONS (TYPICAL)
  3. ALL INSULATED GROUND WIRES TO BE STRANDED, AWG WIRE UNLESS NOTED OTHERWISE.
  4. THIS IS TYPICAL FOR ONE SECTOR OF ANTENNAS. SEE PLANS FOR NUMBER OF SECTORS.
  5. NUMBER OF COAX IS DIAGRAMATIC.
  6. EXISTING DIPLEXER'S AND EXISTING TMA'S NOT SHOWN FOR CLARITY.
  7. FOLLOW T-MOBILE STANDARD GROUNDING METHOD.



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SHEET TITLE  
**GROUNDING PLAN & SINGLE LINE DIAGRAM**

SHEET NUMBER  
**A-6**