# HILTON SF AIRPORT BAYFRONT iDAS (GPS)

## 168843A

## 600 AIRPORT BOULEVARD
## BURLINGAME, CA 94010

### APPLICABLE BUILDING CODES AND STANDARDS

SUBCONTRACTORS' WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

2013 CALIFORNIA ADMINISTRATIVE CODE
2013 CALIFORNIA BUILDING CODE – BASED ON 2012 INTERNATIONAL BUILDING CODE
2013 CALIFORNIA ELECTRICAL CODE – BASED ON 2012 NATIONAL ELECTRICAL CODE
2013 CALIFORNIA MECHANICAL CODE – BASED ON 2012 UNIFORM MECHANICAL CODE
2013 CALIFORNIA PLUMBING CODE – BASED ON 2012 UNIFORM PLUMBING CODE
2013 CALIFORNIA FIRE CODE – BASED ON 2012 INTERNATIONAL FIRE CODE
2013 ENERGY CODE

SUBCONTRACTORS' WORK SHALL COMPLY WITH ALL LOCAL BUILDING CODES AND CITY/COUNTY ORDINANCES.

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY IS EXEMPT BASED ON ADA STANDARDS 203.5 AND CBC 11B-203.5 "MACHINERY SPACES."

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

### VICINITY MAP

### PROJECT TEAM

**CLIENT REPRESENTATIVES:**

MARY FOXGROVER
AT&T MOBILITY
2600 CAMINO RAMON
SAN RAMON, CA 94583
**PHONE:** (650) 576-5409

**ARCHITECT:**

DELTA GROUPS ENGINEERING
4635 WEST LAS POSITAS BOULEVARD
SUITE 403
PLEASANTON, CA 94588
**PHONE:** (925) 468-0115
**FAX:** (925) 468-0355

**STRUCTURAL ENGINEER:**

DELTA GROUPS ENGINEERING
4635 WEST LAS POSITAS BOULEVARD
SUITE 403
PLEASANTON, CA 94588
**PHONE:** (925) 468-0115
**FAX:** (925) 468-0355

**ELECTRICAL ENGINEER:**

DELTA GROUPS ENGINEERING
4635 WEST LAS POSITAS BOULEVARD
SUITE 403
PLEASANTON, CA 94588
**PHONE:** (925) 468-0115
**FAX:** (925) 468-0355

### SITE DIRECTIONS

FROM AT&T MOBILITY OFFICES LOCATED AT 2600 CAMINO RAMON IN SAN RAMON, CA:
HEAD TOWARD BISHOP RANCH TWO ON SUNSET DRIVE. THEN TURN RIGHT ONTO BOLLINGER CANYON ROAD. TAKE RAMP ONTO I-680 S (SINCLAIR FREEWAY) TOWARD SAN JOSE. TAKE THE EXIT TOWARD DUBLIN/OAKLAND ONTO I-580 W (ARTHUR H BREED FREEWAY). KEEP LEFT ONTO I-238 TOWARD I-880. TAKE EXIT 16A TOWARD SAN JOSE/SAN MATEO BRIDGE ONTO I-880 S (NIMITZ FREEWAY). THEN TAKE EXIT 27 ONTO CA-92 W. TAKE EXIT 13B TOWARD SAN FRANCISCO/SAN JOSE ONTO US-101 (BAYSHORE FREEWAY). TAKE EXIT 417B TOWARD PENINSULA AVENUE. THEN TURN LEFT ONTO AIRPORT BOULEVARD. TURN SLIGHTLY RIGHT ONTO AIRPORT BOULEVARD. ARRIVE AT 600 AIRPORT BOULEVARD. YOUR DESTINATION IS ON THE RIGHT.

TO HEAD-END ROOM:
CHECK-IN WITH SECURITY / PROPERTY MANAGEMENT AND OBTAIN AN ESCORT TO THE HEAD-END ROOM. THE HEAD-END ROOM IS LOCATED AT THE PARKING AREA ALONG THE WEST SIDE OF THE PROPERTY.

### PROJECT SUMMARY

SCOPE OF WORK:

THIS IS AN APPLICATION FOR THE SITE MODIFICATION OF AN EXISTING, UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY AT AN EXISTING BUILDING. THE PROPOSED SITE MODIFICATION IS REQUIRED IN ORDER TO PROVIDE A TECHNOLOGY UPGRADE FOR THE EXISTING FACILITY. THE PROPOSED INSTALLATION IS FOR THE CO-LOCATION OF AT&T MOBILITY WIRELESS' EQUIPMENT ONTO AN EXISTING iDAS (INDOOR DISTRIBUTED ANTENNA SYSTEM), THUS ENHANCING AT&T MOBILITY WIRELESS SERVICE TO THE BUILDING.

THE PROPOSED INSTALLATION CONSISTS OF:

- INSTALLATION ONE (1) ANTENNA MOUNTING PIPE FOR ONE (1) GPS ANTENNA.
- ASSOCIATED COMMUNICATIONS AND UTILITIES WIRING AS REQUIRED.

SITE ADDRESS:
600 AIRPORT BOULEVARD
BURLINGAME, CA 94010

PROPERTY OWNER:
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APPLICANT:
AT&T MOBILITY
2600 CAMINO RAMON
SAN RAMON, CA 94583

CONTACT PERSON:
MARY FOXGROVER
AT&T MOBILITY
2600 CAMINO RAMON
SAN RAMON, CA 94583
**PHONE:** (650) 576-5409

LATITUDE (NAD83):
37° 35' 24.11" N
LONGITUDE (NAD83):
122° 20' 37.46" W
ELEVATION:
±16 FT. AMSL
A.P.N.:
026-363-490
JURISDICTION:
CITY OF BURLINGAME
ZONE:
AA-ANZA

### DRAWING INDEX


| | |
|---|---|
| T1 | TITLE SHEET |
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| A1 | OVERALL SITE PLAN & ELEVATIONS |
| A2 | EQUIPMENT AREA PLAN |
| A3 | DETAILS |



RECEIVED
OCT 22 2015
CITY OF BURLINGAME
CDD-PLANNING DIV.

| | | | |
|---|---|---|---|
| | NEW ANTENNA | | GROUT OR PLASTER |
| | EXISTING ANTENNA | | (E) BRICK |
| | GROUND ROD | | (E) MASONRY |
| | GROUND BUS BAR | | CONCRETE |
| | MECHANICAL GRND. CONN. | | EARTH |
| | CADWELD | | GRAVEL |
| | GROUND ACCESS WELL | | PLYWOOD |
| E | ELECTRIC BOX | | SAND |
| T | TELEPHONE BOX | | WOOD CONT. |
| | LIGHT POLE | | WOOD BLOCKING |
| | FND. MONUMENT | | STEEL |
| | SPOT ELEVATION | | CENTERLINE |
| | SET POINT | | PROPERTY/LEASE LINE |
| | REVISION | | MATCH LINE |
| X | GRID REFERENCE | | WORK POINT |
| X / Y–Y | DETAIL REFERENCE | | GROUND CONDUCTOR |
| X / Y–Y | ELEVATION REFERENCE | T | TELEPHONE CONDUIT |
| X / Y–Y | SECTION REFERENCE | E | ELECTRICAL CONDUIT |
| | | A | COAXIAL CABLE |
| | | T/E | OVERHEAD SERVICE CONDUCTORS |
| | | X | CHAIN LINK FENCING |

## LEGEND

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| | | | |
|---|---|---|---|
| A.B. | ANCHOR BOLT | GRND. | GROUND |
| ABV. | ABOVE | HDR. | HEADER |
| ACCA | ANTENNA CABLE COVER ASSEMBLY | HGR. | HANGER |
| ADD'L | ADDITIONAL | HT. | HEIGHT |
| A.F.F. | ABOVE FINISHED FLOOR | ICGB. | ISOLATED COPPER GROUND BUS |
| A.F.G. | ABOVE FINISHED GRADE | IN.(") | INCH(ES) |
| AGL | ABOVE GROUND LEVEL | INT. | INTERIOR |
| ALUM. | ALUMINUM | LB.(#) | POUND(S) |
| ALT. | ALTERNATE | L.B. | LAG BOLTS |
| AMSL | ABOVE SEA LEVEL | L.F. | LINEAR FEET (FOOT) |
| ANT. | ANTENNA | L. | LONG(ITUDINAL) |
| APPRX. | APPROXIMATE(LY) | MAS. | MASONRY |
| ARCH. | ARCHITECT(URAL) | MAX. | MAXIMUM |
| AWG. | AMERICAN WIRE GAUGE | M.B. | MACHINE BOLT |
| BLDG. | BUILDING | MECH. | MECHANICAL |
| BLK. | BLOCK | MFR. | MANUFACTURER |
| BLKG. | BLOCKING | MIN. | MINIMUM |
| BM. | BEAM | MISC. | MISCELLANEOUS |
| B.N. | BOUNDARY NAILING | MTL. | METAL |
| B/U | BACK–UP CABINET | (N) | NEW |
| CAB. | CABINET | NO.(#) | NUMBER |
| BTCW. | BARE TINNED COPPER WIRE | N.T.S. | NOT TO SCALE |
| B.O.F. | BOTTOM OF FOOTING | O.C. | ON CENTER |
| CANT. | CANTILEVER(ED) | OPNG. | OPENING |
| C.I.P. | CAST IN PLACE | P/C | PRECAST CONCRETE |
| CLG. | CEILING | PCS | PERSONAL COMMUNICATION SERVICES |
| CLR. | CLEAR | PLY. | PLYWOOD |
| COL. | COLUMN | PPC | POWER PROTECTION CABINET |
| CONC. | CONCRETE | PRC | PRIMARY FLEXENT CABINET |
| CONN. | CONNECTION(OR) | P.S.F. | POUNDS PER SQUARE FOOT |
| CONST. | CONSTRUCTION | P.S.I. | POUNDS PER SQUARE INCH |
| CONT. | CONTINUOUS | P.T. | PRESSURE TREATED |
| d | PENNY (NAILS) | PWR. | POWER (CABINET) |
| DBL. | DOUBLE | QTY. | QUANTITY |
| DEPT. | DEPARTMENT | RAD.(R) | RADIUS |
| D.F. | DOUGLAS FIR | REF. | REFERENCE |
| DIA. | DIAMETER | REINF. | REINFORCEMENT(ING) |
| DIAG. | DIAGONAL | REQ'D. | REQUIRED |
| DIM. | DIMENSION | RGS. | RIGID GALVANIZED STEEL |
| DWG. | DRAWING(S) | SCH. | SCHEDULE |
| DWL. | DOWEL(S) | SHT. | SHEET |
| EA. | EACH | SIM. | SIMILAR |
| EL. | ELEVATION | SPEC. | SPECIFICATION(S) |
| ELEC. | ELECTRICAL | SQ. | SQUARE |
| ELEV. | ELEVATOR | S.S. | STAINLESS STEEL |
| EMT. | ELECTRICAL METALLIC TUBING | STD. | STANDARD |
| E.N. | EDGE NAIL | STL. | STEEL |
| ENG. | ENGINEER | STRUC. | STRUCTURAL |
| EQ. | EQUAL | TEMP. | TEMPORARY |
| EXP. | EXPANSION | THK. | THICK(NESS) |
| EXIST.(E) | EXISTING | T.N. | TOE NAIL |
| EXT. | EXTERIOR | T.O.A. | TOP OF ANTENNA |
| FAB. | FABRICATION(OR) | T.O.C. | TOP OF CURB |
| F.F. | FINISH FLOOR | T.O.F. | TOP OF FOUNDATION |
| F.G. | FINISH GRADE | T.O.P. | TOP OF PLATE (PARAPET) |
| FIN. | FINISH(ED) | T.O.S. | TOP OF STEEL |
| FLR. | FLOOR | T.O.W. | TOP OF WALL |
| FDN. | FOUNDATION | TYP. | TYPICAL |
| F.O.C. | FACE OF CONCRETE | U.G. | UNDER GROUND |
| F.O.M. | FACE OF MASONRY | U.L. | UNDERWRITERS LABORATORY |
| F.O.S. | FACE OF STUD | U.N.O. | UNLESS NOTED OTHERWISE |
| F.O.W. | FACE OF WALL | V.I.F. | VERIFY IN FIELD |
| F.S. | FINISH SURFACE | W | WIDE(WIDTH) |
| FT.(') | FOOT(FEET) | W/ | WITH |
| FTG. | FOOTING | WD. | WOOD |
| G. | GROWTH (CABINET) | W.P. | WEATHERPROOF |
| GA. | GAUGE | WT. | WEIGHT |
| GI. | GALVANIZE(D) | ℄ | CENTERLINE |
| G.F.I. | GROUND FAULT CIRCUIT INTERRUPTER | ℗ | PLATE |
| GLB.(GLU–LAM) | GLUE LAMINATED BEAM | | |
| GPS | GLOBAL POSITIONING SYSTEM | | |

## ABBREVIATIONS

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## DRAWING SPECIFICATIONS

1. 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.

2. THIS FACILITY IS AN UNOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

3. THE DRAWINGS SHALL NOT BE SCALED. FIGURED DIMENSIONS HAVE PRECEDENCE OVER THE DRAWING SCALE. DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. THE CONTRACTOR SHALL CHECK THE ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF THE DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.

4. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE PROJECT MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.

5. THE DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS. SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.

6. REPRESENTATIONS OF THE TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF THE SURVEY DRAWING, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF THE SURVEY DRAWING AND ANY SURVEYOR MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH. IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.

7. THESE CONSTRUCTION DRAWING DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION.

8. THE INTENTION OF THE DOCUMENT IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.

9. THE PURPOSE OF THE SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE, AND QUALITY OF MATERIALS REQUIRED TO COMPLETE THE WORK.

10. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.

11. GENERAL ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, THE CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

## CONTRACTOR SPECIFICATIONS

1. PRIOR TO THE SUBMISSION OF BIDS, THE PARTICIPATING CONTRACTORS SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT, WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS. FIELD CONDITIONS, AND CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN, PRIOR TO SUBMISSION OF BIDS AND CONSTRUCTION. SHOULD ANY ERRORS, OMISSIONS, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER, 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/ENGINEER ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.

2. 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 PROJECT MANAGER AND THE ARCHITECT/ENGINEER, SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.

3. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER IF ANY OF THE DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOFED, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. THE 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.

4. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.

5. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.

6. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH ALL LOCAL CODES, REGULATIONS, AND ORDINANCES, AS WELL AS, STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.

7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 16, SECTION 1613 OF THE CBC REGARDING EARTHQUAKE PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS AND MECHANICAL EQUIPMENT. ALL WORK MUST BE IN ACCORDANCE WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.

8. THE 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 WEST HIGGINS ROAD, SUITE 600
ROSEMONT, IL 60018

SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS
NATIONAL ASSOCIATION
4201 LAFAYETTE CENTER DRIVE
CHANTILLY, VA 22021–1209

ITLP INTERNATIONAL INSTITUTE FOR LATH AND PLASTER
820 TRANSFER ROAD
ST. PAUL, MN 55114–1406

AMA ADHESIVE MANUFACTURERS ASSOCIATION
401 NORTH MICHIGAN AVENUE, SUITE 2400
CHICAGO, IL 60611

9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

10. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY THE GENERAL CONTRACTOR WITH LOCAL ELECTRICAL COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

11. 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.

12. THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL SOLELY BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

13. THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, PROJECT MANAGER AND THE CARRIER'S PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, EQUIPMENT, ETC., SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROJECT MANAGER, THE PROPERTY OWNER, OR THE OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.

14. 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 DELTA GROUPS ENGINEERING, INC. UNDER THIS CONTRACT.

15. THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORTS FOR ALL ITEMS REQUIRING THE SAME.

16. PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATERTIGHT USING MATERIALS IN ACCORDANCE WITH NRCA ROOFING STANDARDS AND DETAILS. THE CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION FOR SITE–SPECIFIC CONDITIONS FROM THE ARCHITECT/ENGINEER, IF NECESSARY, BEFORE PROCEEDING.

17. THE CONTRACTOR SHALL CONTACT U.S.A. (UNDERGROUND SERVICE ALERT) BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK, OR CONSTRUCTION.

18. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.

19. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

20. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.

21. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER, THE PROJECT MANAGER, AND THE CITY OR GOVERNING AGENCY.

22. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEANUP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY.

23. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION, AND IN A MANNER THAT DOES NOT NECESSARILY OBSTRUCT THE FLOW OF OTHER WORK. IN ADDITION, STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

24. THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.

25. 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 THE PROJECT MANAGER.

26. THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY THE WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR MUST ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.

27. THE CONTRACTOR SHALL PROVIDE A CLOSE–OUT PACKAGE TO THE PROJECT MANAGER, WHICH WILL INCLUDE:

A. BUILDING PERMITS/ELECTRICAL PERMITS
B. FINAL INSPECTION CARD
C. STAMPED BUILDING PERMIT PLANS
D. GROUNDING TEST
E. SWEEP TEST
F. CONCRETE TEST
G. SPECIAL INSPECTION REPORTS
H. WARRANTIES, MANUAL, EQUIPMENT SPECIFICATIONS
I. SUBCONTRACTOR CONTACT LIST
J. REDLINED AS–BUILTS
K. CONSTRUCTION PROCESS PHOTOS
L. SITE COMPLETION PHOTOS
M. A WRITTEN REPORT ON ANTENNA SERIAL NUMBER FOR EACH SECTOR
N. MANUFACTURER'S PERFORMANCE REPORT FOR EACH ANTENNA

## ENGINEERING REQUIREMENTS

1. ALL EXPOSED METAL SHALL BE HOT–DIPPED GALVANIZED.

2. SEAL ALL PENETRATIONS THROUGH FIRE–RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF AND WHERE APPLICABLE TO THIS FACILITY AND PROJECT SITE.

3. ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS, AT WALL AND ROOF PENETRATIONS, SHALL BE CAULKED OR SEALED TO LIMIT INFILTRATION OF AIR AND MOISTURES.

4. THE ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250 AND 810.

5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND LISTED IN THESE DRAWINGS TO THE PROJECT MANAGER FOR APPROVAL. ALL SHOP DRAWINGS SHALL BE REVIEWED, CHECKED AND CORRECTED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE PROJECT MANAGER.

6. THE CONTRACTOR SHALL SUBMIT THREE COPIES OF EACH REQUEST FOR SUBSTITUTIONS. IN EACH REQUEST, IDENTIFY THE PRODUCT, FABRICATION OR INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION. INCLUDE RELATED SPECIFICATION SECTION AND DRAWING NUMBERS AND COMPLETE DOCUMENTATION SHOWING COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS.

7. THE CONTRACTOR SHALL SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS, PRODUCTS AND MATERIALS BEING INSTALLED. THE CONTRACTOR SHALL, IF DEEMED NECESSARY BY THE PROJECT MANAGER, SUBMIT ACTUAL SAMPLES TO DELTA GROUPS ENGINEERING, INC. FOR APPROVAL, IN LIEU OF CUT SHEETS.

8. CHANGE ORDERS MAY BE INITIATED BY THE PROJECT MANAGER AND/OR THE CONTRACTOR INVOLVED. THE CONTRACTOR, UPON VERBAL REQUEST FROM THE PROJECT MANAGER, SHALL PREPARE A WRITTEN PROPOSAL DESCRIBING THE CHANGE IN WORK OR MATERIALS AND ANY CHANGES IN THE CONTRACT AMOUNT AND PRESENT IT TO THE PROJECT MANAGER WITHIN SEVENTY–TWO HOURS FOR APPROVAL. SUBMIT REQUESTS FOR SUBSTITUTIONS IN THE FORM AND IN ACCORDANCE WITH PROCEDURES REQUIRED FOR CHANGE ORDER PROPOSALS. ANY CHANGES IN THE SCOPE OF WORK OR MATERIALS WHICH ARE PERFORMED BY THE CONTRACTOR WITHOUT A WRITTEN CHANGE ORDER AS DESCRIBED AND APPROVED BY THE PROJECT MANAGER SHALL PLACE FULL RESPONSIBILITY OF THESE ACTIONS ON THE CONTRACTOR.

## GENERAL REQUIREMENTS

1. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2–A OR 2–A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT CONSTRUCTION AREA.

2. THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, CARRY AND MAINTAIN FOR THE DURATION OF THE PROJECT, ALL INSURANCE AS REQUIRED AND LISTED. THE CONTRACTOR SHALL NOT COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE, STATING ALL COVERAGE, TO THE CELLULAR CARRIER. THE CELLULAR CARRIER SHALL BE NAMED AS AN ADDITIONAL COMPANY INSURED ON ALL POLICIES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED IN THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSIONS, WHICH MAY BE FOUND, SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.

4. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING WHICH SUCH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.

5. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

6. BEFORE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THE PROJECT MANAGER WILL DEVELOP A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE CELLULAR CARRIER'S PROJECT MANAGER PRIOR TO THE COMMENCEMENT OF ANY WORK.

7. THE CONTRACTOR SHALL SUBMIT A BAR TYPE PROGRESS CHART NOT MORE THAN THREE DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE. IT SHALL INDICATE A TIME BAR FOR EACH MAJOR CATEGORY OF WORK TO BE PERFORMED AT THE SITE, PROPERLY SEQUENCED AND COORDINATED WITH OTHER ELEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE SITE.

8. THE CONTRACTOR SHALL PROVIDE WRITTEN DAILY UPDATES ON SITE PROGRESS TO THE PROJECT MANAGER.

9. A COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO THE START OF CONSTRUCTION.

10. NOTIFY THE PROJECT MANAGER IN WRITING NO LESS THAN FORTY–EIGHT HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.

11. THE CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR A BEEPER. THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE CELLULAR CARRIER, NOR WILL WIRELESS SERVICE BE ARRANGED.

12. DURING CONSTRUCTION, THE CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. CONTRACTOR WILL COMPLY WITH ALL SAFETY REQUIREMENTS IN THEIR AGREEMENT.

13. CONTRACTOR MUST ENSURE ALL SIGNS, EQUIPMENTS AND CABLE LABEL IN ACCORDANCE TO AT&T SIGN AND LABELING STANDARD.

14. DURING CONSTRUCTION, CONTRACTOR SHALL ENSURE ALL EQUIPMENTS TRANSPORTING TO ROOF WILL USE CARTS WITH LARGE RUBBER TIRES.

## GENERAL NOTES

1

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| REV. | DATE | DESCRIPTION | BY | CHK |
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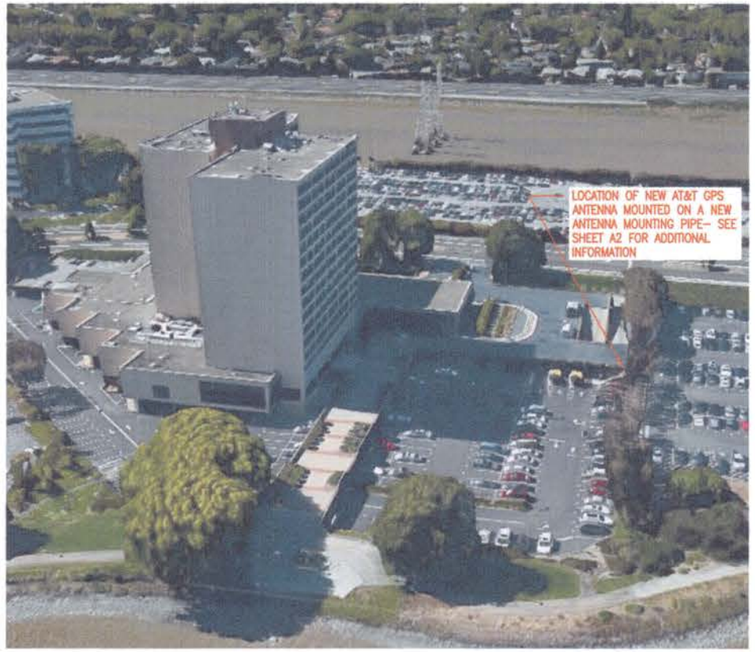
| 1 | 10/21/15 | ISSUED FOR PERMIT | HT | - |

SHEET TITLE
GENERAL NOTES, LEGEND, & ABBREVIATIONS

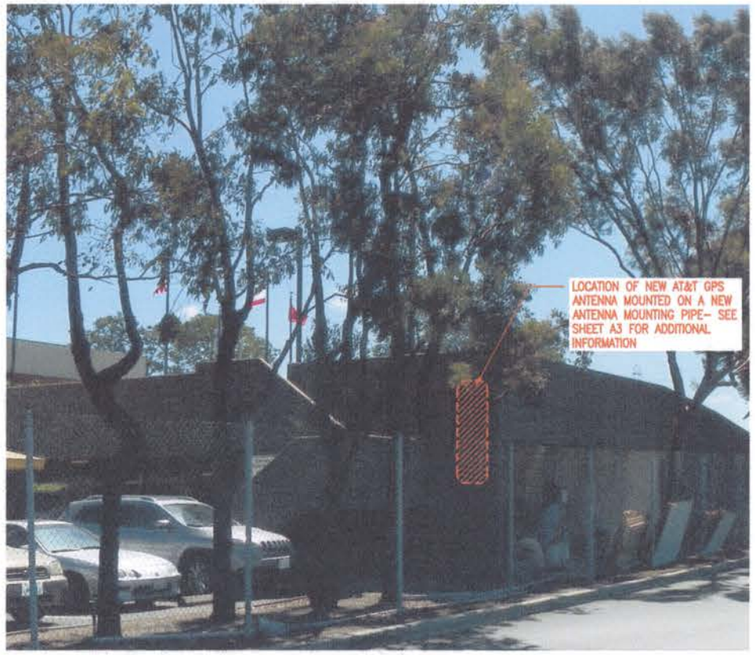
SHEET T2

DGE NO. P15AT007

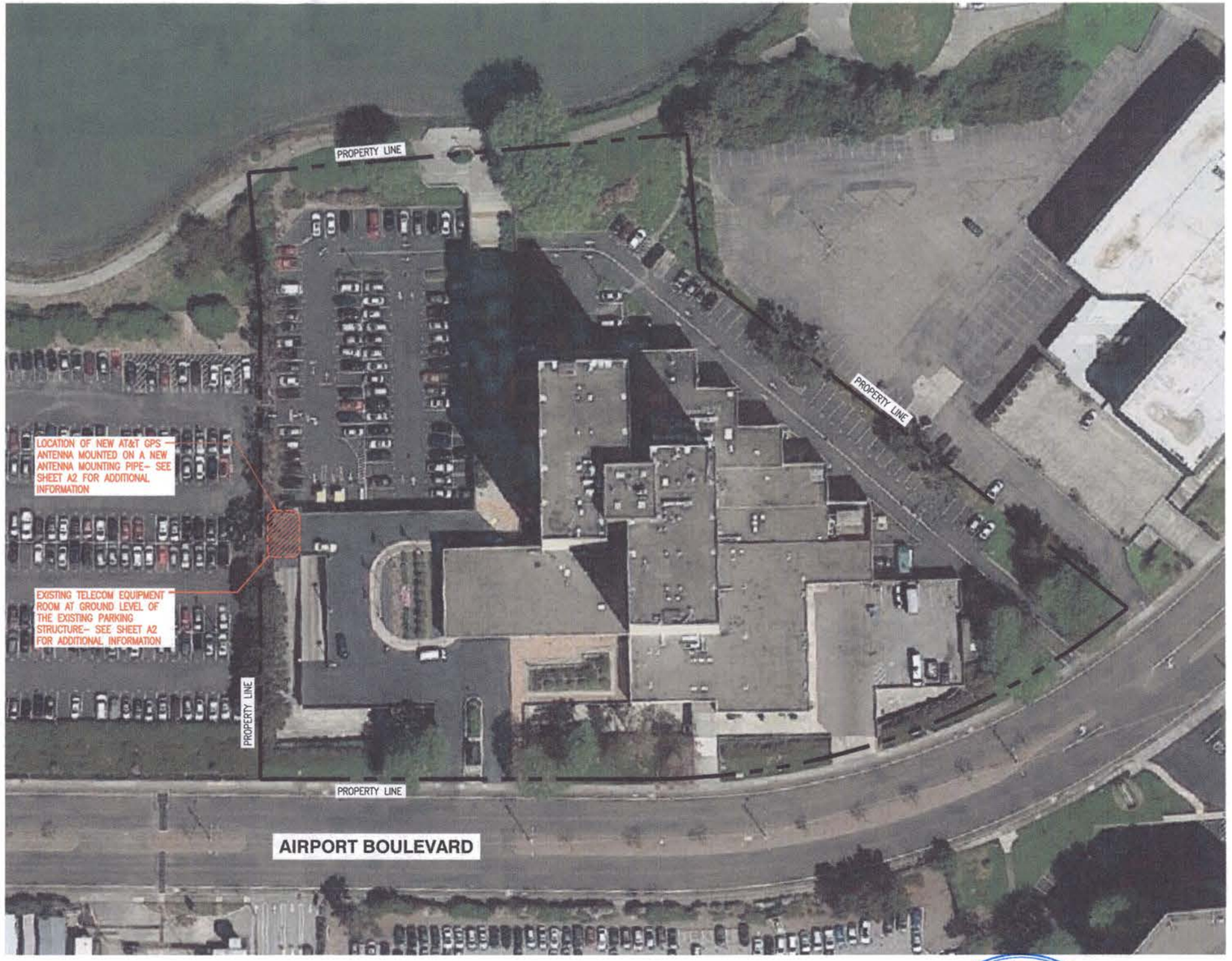
SITE NAME HILTON SF AIRPORT BAYFRONT




**BUILDING ELEVATION** | **2**




**GPS ANTENNA LOCATION- ELEVATION** | **3**




NOTE:
DO NOT SCALE DRAWINGS. ALL DIMENSIONS OF AND BETWEEN EXISTING BUILDINGS/STRUCTURES, OR RELATIVE DISTANCES AS SHOWN BETWEEN EXISTING BUILDINGS/STRUCTURES AND THE TRUE NORTH ARE TO BE CONFIRMED BY THE SURVEYOR.

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N W E S

**OVERALL SITE PLAN** | **1**


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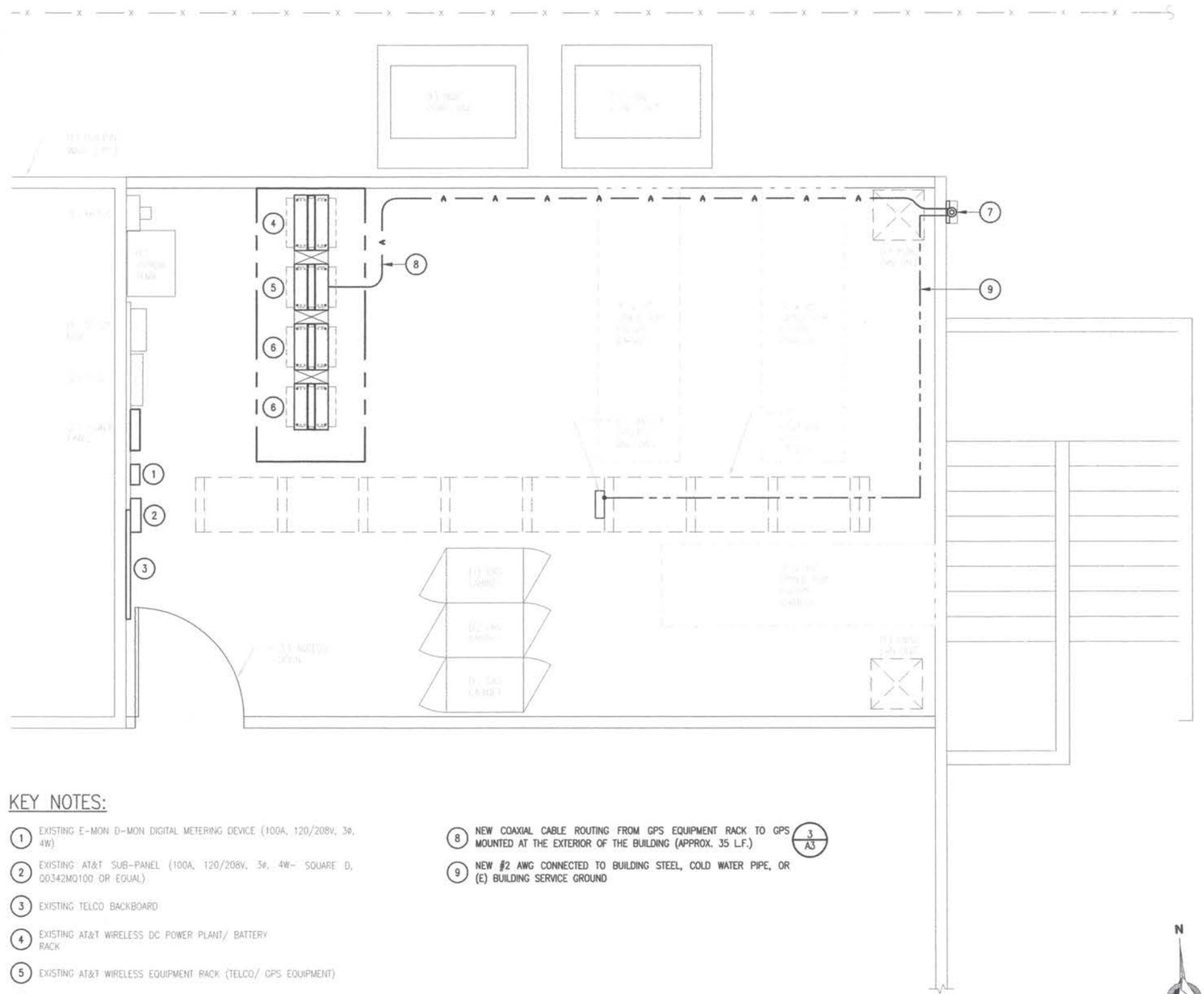
SHEET TITLE: OVERALL SITE PLAN & ELEVATIONS
SHEET: A1
DGE NO.: P15AT007
SITE NAME: HILTON SF AIRPORT BAYFRONT




## KEY NOTES:

1. EXISTING E-MON D-MON DIGITAL METERING DEVICE (100A, 120/208V, 3ø, 4W)
2. EXISTING AT&T SUB-PANEL (100A, 120/208V, 3ø, 4W- SQUARE D, QO342MQ100 OR EQUAL)
3. EXISTING TELCO BACKBOARD
4. EXISTING AT&T WIRELESS DC POWER PLANT/ BATTERY RACK
5. EXISTING AT&T WIRELESS EQUIPMENT RACK (TELCO/ GPS EQUIPMENT)
6. EXISTING AT&T WIRELESS EQUIPMENT RACK (RBS 6602 EQUIPMENT)
7. NEW AT&T WIRELESS GPS ANTENNA MOUNTED TO EXISTING WALL (1/A3)
8. NEW COAXIAL CABLE ROUTING FROM GPS EQUIPMENT RACK TO GPS MOUNTED AT THE EXTERIOR OF THE BUILDING (APPROX. 35 L.F.) (3/A3)
9. NEW #2 AWG CONNECTED TO BUILDING STEEL, COLD WATER PIPE, OR (E) BUILDING SERVICE GROUND

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NOTE:
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N
W
E
S

**UNUSED** - **EQUIPMENT AREA PLAN**

SCALE 1/2 inch = 1 ft — 2' 0' 2' 4' — 1


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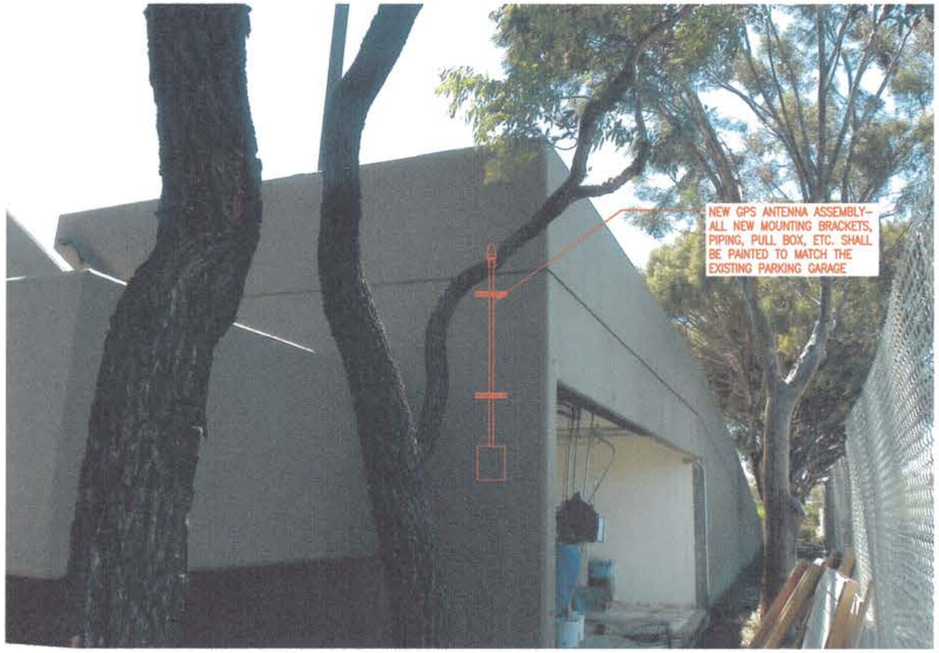
SHEET TITLE: EQUIPMENT AREA PLAN

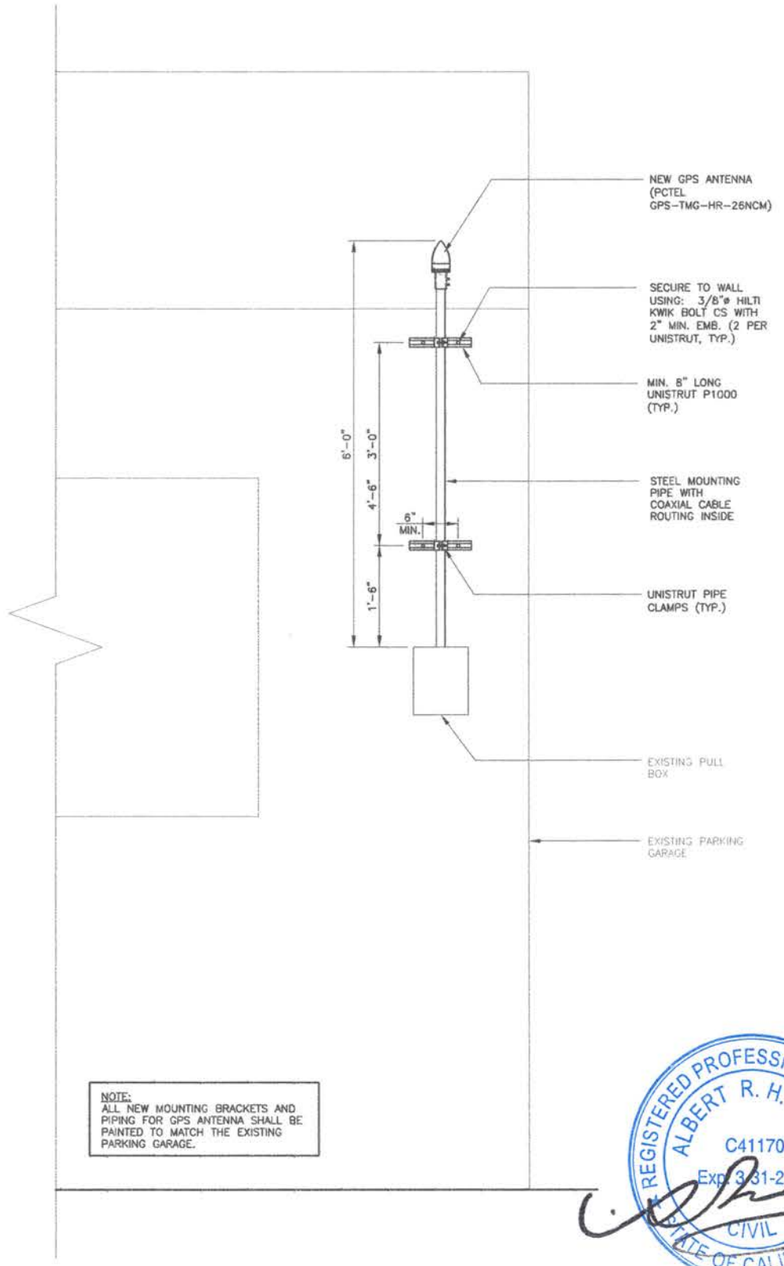
SHEET: A2

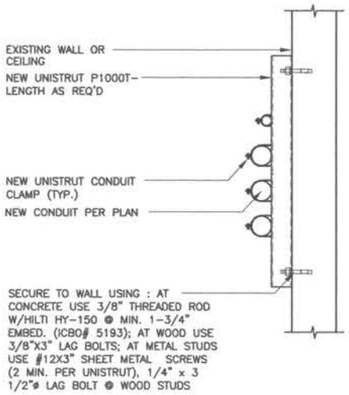
DGE NO: P15AT007

SITE NAME: HILTON SF AIRPORT BAYFRONT




**GPS ANTENNA ASSEMBLY- REFERENCE PHOTO** | 2

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**UNUSED** | -

**CONDUIT ROUTING AT WALL / CEILING** | 3

**GPS ANTENNA MOUNTING** | 1

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SHEET TITLE: DETAILS
SHEET: A3
DGE NO.: P15AT007
SITE NAME: HILTON SF AIRPORT BAYFRONT