



Real Estate Assets Department
SDC003

NEW CINGULAR WIRELESS/CAMINO RUIZ PARK

I402R4-001-A00

Document Type

LEGAL DOCUMENTS



Sub - Category

AMENDMENTS



16

 Real Estate
Assets
City Consent Application

For installation / modification of Telecommunication antenna facility on City owned property

December 21, 2017

Date

The City of San Diego
Real Estate Assets Department
1200 Third Avenue, Suite 1700
San Diego, California 92101

RE: Site Name: AT&T NS0622 Camino Ruiz Park Project # _____
Site Address: 11498 Camino Ruiz, San Diego (the "Property")
Agreement: Agreement dated 01/25/2011 (the "agreement") between The City of San Diego ("City") and New Cingular Wireless PCS, LLC (AT&T), ("Lessee" or "Permittee").

DePratti, Inc./AT&T Mobility is seeking Consent from the City to perform the following to the above
Applicants Name/Carrier
referenced site:

- ☒ Modify, upgrade or changes to existing equipment or Site as describe in the attached plans / photos.
- ☐ Installation of a New Wireless Communication Facility on City owned property.
- ☐ Apply for new Permit/New Agreement on existing facility - **NO** modifications or changes to Existing equipment or site.

Describe proposed project below:

AT&T will install (3) new 6' antennas for a total of (12) antennas on the existing monopine. Remote radio units (RRUs) will be swapped and added for a total of (15) RRUs. Power, cable and fiber trunks will be run from antennas to the ground equipment along existing lines. A total of (3) surge suppressors will be installed. (6) Tower Mounted Amplifiers and (3) diplexers will be removed from the monopine. The existing power plant, associated equipment and batteries will be updated and/or replaced within the ground equipment area. (9) new monopine antlers will be installed.

Pursuant to Improvements and Alterations, section of the above referenced agreement, "Lessee / Permittee shall not construct any improvements, structures or installations of the Premises or make any alterations to the Premises (with the exception of equipment replacement or repairs) without City's prior written approval."

In order to comply with such requirements, New Cingular Wireless PCS, LLC (AT&T) would like to request City's consent to submit to Development Services Department for review of the proposed items above.

Sincerely, Cathy Lim, DePratti, Inc., agent for New Cingular Wireless PCS, LLC (AT&T).

Applicant Signature: Cathy Lim Digitally signed by Cathy Lim
Date: 2017.12.21 16:29:13 -08'00'

☐ A one-time, **non-refundable Processing Fee** (\$4,920 for long term agreements - \$980 for Short term or ROE Permits) payable to City Treasures, MUST be paid at the time of application. This fee applies even if the agreement is never executed.

City Park & Rec. Department has provided its consent and approval to allow applicant to submit application for Required Permits needed for the proposed items listed herein, **with the understanding that the Department will be allowed to review the improvement plans prior to any permits being issued** and that a pre-construction meeting will be conducted with staff before any work begins, if required.

1/24/18 Kathryn Ruiz, Deputy Director Kathryn Ruiz
Date Print Name & Title Signature

City of San Diego, acknowledgement and consent for _____

1/24/18 Cybera Robinson [Signature]
Date Print Name & Title Signature
Director, New Assets Assets

For READ ONLY

- ☐ Approved and Stamped plans received and attached
- ☐ Scan as Amendment to Agreement when executed
- ☐ Processing fee received



Real Estate
Assets



NS0622 – Camino Ruiz Park

Photo Simulation – South East Elevation

Existing condition of Mono-Elm



Proposed view after antenna installation and complete re-branching





MAP REF: PM14629 ABBREVIATED DESCRIPTION: CITY: SAN DIEGO PM14629
PAR 1*PAR B PER DOC95-323382 IN CITY/MUNI/TWP: SAN DIEGO

PROPERTY OWNER:	CITY OF SAN DIEGO REAL ESTATE ASSETS DEPARTMENT SAN DIEGO, CA 92121 CONTACT: ENZA CHARLES
APPLICANT:	ATA1 MOBILITY
ADDRESS:	2750 PACIFIC CENTER BLVD. SAN DIEGO, CA 92121
SITE ADDRESS:	11498 CAMINO REAL SAN DIEGO, CA 92108
LAT/LONG TYPE:	NAD-83
LATITUDE:	32° 56' 2.794" N (32.9364660)
LONGITUDE:	-117° 1' 52.841" W (-117.1479960)
GROUND ELEVATION:	0.0 (AMSL)
ZONING JURISDICTION:	CITY OF SAN DIEGO
ZONING CLASSIFICATION:	AR-1.1
CURRENT USE:	UNMANNED OUTDOOR TELECOMMUNICATIONS EQUIPMENT
ASSESSOR'S PARCEL NO.:	309-040-091
NEW USE:	UNMANNED OUTDOOR TELECOMMUNICATIONS EQUIPMENT
TYPE OF CONSTRUCTION:	RE-B
OCCUPANCY GROUP:	0
STRUCTURE HEIGHT:	35'-0"
STRUCTURE TYPE:	MONO-BROADLEAF
YEAR BUILT:	19-

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CLIENT REPRESENTATIVE:
DEPATRI II INC.
13944 CALLE BUENO GANER
JAMIL, CA 91305
CONTACT: CATHY IUN
EMAIL: cdeas@depatri.com
PHONE: (858) 572-9938

TRAINING CONTACT:
DEPATRI II INC.
13944 CALLE BUENO GANER
JAMIL, CA 91305
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EMAIL: cdeas@depatri.com
PHONE: (858) 572-9938

ENGINEER:
MS SQUARED WIRELESS
1877 CALLE AVANZADO
SAN CLEMENTE, CA 92673
CONTACT: MICHAEL MONTELEO
PHONE: (949) 391-6824
msquared-wireless.com

RF ENGINEER:
AT&T MOBILITY
5738 PACE CENTER BLVD.
SAN DIEGO, CA 92121

CONSTRUCTION MANAGER:
DEPATRI II INC.
13944 CALLE BUENO GANER
JAMIL, CA 91305
CONTACT: TIM HENSON
EMAIL: thenson@depatri.com
PHONE: (503) 519-6551

DIRECTIONS FROM SD AT&T OFFICE (5736 PACIFIC CENTER BLVD., SAN DIEGO, CA 92121):

- * FROM 15 FREEWAY EXIT MIRAMESA BLVD AND GO WEST, TURN RIGHT ONTO CAMINO RUIZ AND CONTINUE NORTH TO END. AT CALLE CRISTOBAL CONTINUE STRAIGHT INTO PARK.

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.

- * CALIFORNIA ADMINISTRATIVE CODE (INCL TITLE 24 & 25)
- * 2016 CALIFORNIA BUILDING CODE
- * CITY/COUNTY ORDINANCES
- * BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- * 2016 CALIFORNIA MECHANICAL CODE
- * 2016 CALIFORNIA FIRE CODE
- * 2016 CALIFORNIA PLUMBING CODE
- * 2016 CALIFORNIA ELECTRICAL CODE
- * LOCAL BUILDING CODE

AT&T WIRELESS PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- | | |
|-----------|--|
| * REMOVE | (1) EXISTING RISER CABINET |
| * REMOVE | (4) EXISTING BATTERIES WITHIN E.C. CABINET @ GRADE |
| * REMOVE | (4) EXISTING AT&T RISERS 12-6 @ GROUND LEVEL |
| * REMOVE | (8) EXISTING AT&T TMS @ ANTENNA LEVEL |
| * REMOVE | (4) EXISTING OPTIC LEADERS @ ANTENNA LEVEL |
| * INSTALL | (2) NEW AT&T 6-E POLE ANTENNAS |
| * INSTALL | (2) NEW AT&T 6-E PANEL ANTENNAS |
| * INSTALL | (2) NEW AT&T AT&T RISERS @ ANTENNA LEVEL |
| * INSTALL | (2) NEW AT&T RISER 8-14 AT&T @ ANTENNA LEVEL |
| * INSTALL | (2) NEW AT&T RISER 22-6 @ ANTENNA LEVEL |
| * INSTALL | (2) NEW AT&T RISER 2-6 @ ANTENNA LEVEL |
| * INSTALL | (2) NEW AT&T SQUARE SUPPRESSORS @ ANTENNA LEVEL |
| * INSTALL | (2) NEW AT&T RECTIFIERS WITHIN E.P. POWER PLANT |
| * INSTALL | (2) NEW AT&T EMERGSON POWER |
| * INSTALL | (8) NEW AT&T BATTERIES @ WITHIN E.P. POWER PLANT & WITHIN NEW EMERGSON POWER CABINET |
| * INSTALL | (1) NEW AT&T RISER UNIT WITHIN EXISTING EQUIPMENT CABINET @ GRADE |
| * INSTALL | (1) NEW AT&T S126 BATTERY WITHIN EXISTING EQUIPMENT CABINET @ GRADE |
| * INSTALL | (1) NEW AT&T RISER UNIT WITHIN EXISTING EQUIPMENT CABINET @ GRADE |
| * INSTALL | (2) D.C. SURGE SUPPRESSORS |
| * INSTALL | (2) CABLE TIE-INS & POST TIE-INS @ 1'11" FRUIT RUN |
| * INSTALL | (1) NEW MONOPHASE ANTENNA @ ANTENNA LEVEL |

T-1	TITLE SHEET
GN-1	GENERAL NOTES
GN-2	GENERAL NOTES
A-1	OVERALL SITE PLAN
A-1.1	ENLARGED SITE PLAN
A-2	ROOFTOP EQUIPMENT LEVEL
A-3	ROOFTOP ANTENNA LEVEL
A-4	ELEVATIONS
A-5	ELEVATIONS
D-1	DETAILS
G-1	GROUNDING SCHEMATIC AND GROUNDING DETAILS
GN-3	GENERAL NOTES

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

AT&T RF ENGINEER: _____ DATE: _____

AT&T OPERATIONS: _____ DATE: _____

SITE ACQUISITION: _____ DATE: _____

CONSTRUCTION MANAGER: _____ DATE: _____

PROPERTY OWNER: _____ DATE: _____

ZONING: _____ DATE: _____

PROJECT MANAGER: _____ DATE: _____

THESE DRAWINGS ARE SCALED TO FULL SIZE AT 22"x34" AND HALF SIZE AT 11"x17". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.



Depratt Inc.
13948 CALLE BUENO GANAR
JAMUL, CA 91935

M SQUARE 
WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92873 (949) 391-8824

SITE NUMBER: NS0622
FA NUMBER: 10105310
CAMINO RUIZ PARK
11498 CAMINO RUIZ
SAN DIEGO, CA 92126
SAN DIEGO COUNTY
MONO-BROADLEAF

1	12/11/2017	100% CD'S FOR REVIEW	AF
0	11/21/2017	100% CD'S FOR REVIEW	AF
A	11/20/2017	80% CD'S FOR REVIEW	AF
REV	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER
ROYALL A. WHARTON
C50547
EXP. DATE:
6/30/16
CIVIL
STATE OF CALIFORNIA

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

TITLE SHEET

T-1

GENERAL CONSTRUCTION NOTES:

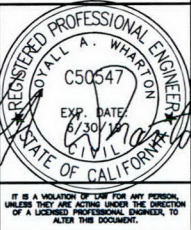
1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR - GENERAL CONTRACTOR
SUBCONTRACTOR - CONTRACTOR (CONSTRUCTION)
OWNER - AT&T
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE NEW WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LOCAL, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY. UNLESS OTHERWISE NOTED, DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE SPACE FOR APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAD PLUMBS AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATION THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO THE BEGINNING OF CONSTRUCTION.
15. SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
17. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT 10-B-10C AND 50-B-20 WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ARCHITECT/ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
23. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
24. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
25. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
26. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 98 PERCENT STANDARD PROCTOR DENSITY (AND PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE). ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL, PRE-APPROVED BY THE LOCAL JURISDICTION.
27. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
28. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
29. SUBCONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
30. SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
31. THE NEW FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
32. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
33. NO OUTDOOR STORAGE OF SOLID WASTE CONTAINERS ARE NEW.
34. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
35. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF SUBCONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
36. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
37. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITATION AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
38. NO WASTE STREAMS OR LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
39. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
40. NO NOISE, SMOKE, DUST, OR VIBRATIONS WILL RESULT FROM THIS FACILITY. (DISREGARD THIS NOTE IF THIS SITE HAS A GENERATOR)
41. NO ADDITIONAL PARKING TO BE NEW - EXISTING ACCESS AND PARKING TO REMAIN, UNLESS NOTED OTHERWISE.
42. NO LANDSCAPING IS NEW AT THIS SITE, UNLESS NOTED OTHERWISE.

ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER AS SOON AS POSSIBLE OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE "CONSTRUCTION MANAGER" HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
2. ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF HIS BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
C - NATIONAL FIRE CODES
C - UNDERWRITERS LABORATORIES
B - NEC - NATIONAL ELECTRICAL CODE
C - NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D - OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
E - SBC - STANDARD BUILDING CODE
4. DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH "CONSTRUCTION MANAGER" ANY SIZES AND LOCATIONS WHEN NEEDED.
5. EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
6. CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
7. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL.
8. CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE LUG SIZE RESTRICTIONS, SCHEDULED DOWNTIME FOR THE OWNER'S CONSTRUCTION, ETC. - ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
9. MINIMUM WIRE SHALL BE NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THIN INSULATION.
10. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
11. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
12. ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY AT&T.
13. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL FULLY OPERATE AND BE SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
15. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
16. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREOF.
17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
18. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
19. DETACHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS EXCAVATION, AND BACKFILLING.
20. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEC.
21. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURERS CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
22. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE "CONSTRUCTION MANAGER" UPON FINAL ACCEPTANCE.
23. THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
24. DISCONNECT SWITCHES SHALL BE N.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
25. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS NO-OXIDE "A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.
26. RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 - 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPIRE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RIGID CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH BRITZ ZINC OR "GOLD GALT".
27. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
28. CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THIN INSULATION, 800 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
29. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINALS LUGS FOR NO. 8 AWG AND LARGER.
30. SERVICE: 240/120V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. OWNER OR OWNER'S AGENT WILL APPLY FOR POWER.
31. TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
32. ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
33. CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL, TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELEPHONE".
34. ALL BOLTS SHALL BE STAINLESS STEEL.

GROUNDING NOTES:

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. CONTRACTOR 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.
6. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION, AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
7. 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.
8. 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.

APPLICANT																		
PLANNING	 13948 CALLE BUENO GAVAR JANUL, CA 91935																	
ENGINEER	 1287 CALLE AVAREADO SAN CLEMENTE CA 92673 (949) 381-0884																	
SITE INFORMATION	SITE NUMBER: NS0622 FA NUMBER: 10105310 CAMINO RUIZ PARK 11498 CAMINO RUIZ SAN DIEGO, CA 92126 SAN DIEGO COUNTY MONO-BROADLEAF																	
DESIGN RECORD	<table border="1"><thead><tr><th>REV</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr></thead><tbody><tr><td>1</td><td>12/11/2017</td><td>100% QTS FOR REVIEW</td><td>AF</td></tr><tr><td>8</td><td>11/21/2017</td><td>100% QTS FOR REVIEW</td><td>AF</td></tr><tr><td>A</td><td>11/20/2017</td><td>90% QTS FOR REVIEW</td><td>AF</td></tr></tbody></table>		REV	DATE	DESCRIPTION	BY	1	12/11/2017	100% QTS FOR REVIEW	AF	8	11/21/2017	100% QTS FOR REVIEW	AF	A	11/20/2017	90% QTS FOR REVIEW	AF
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PROFESSIONAL STAMP	 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTIVE UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.																	
SHEET TITLE	GENERAL NOTES																	
SHEET NUMBER	GN-1																	

SITE WORK & DRAINAGE

PART 1 - GENERAL

CLEARING, CRUISING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE NEW WORK SHOWN IN THESE PLANS.

1.1 REFERENCES:

- DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).
- ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION).

1.2 INSPECTION AND TESTING:

- FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY SUBCONTRACTORS INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE SUBCONTRACTOR.
- ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

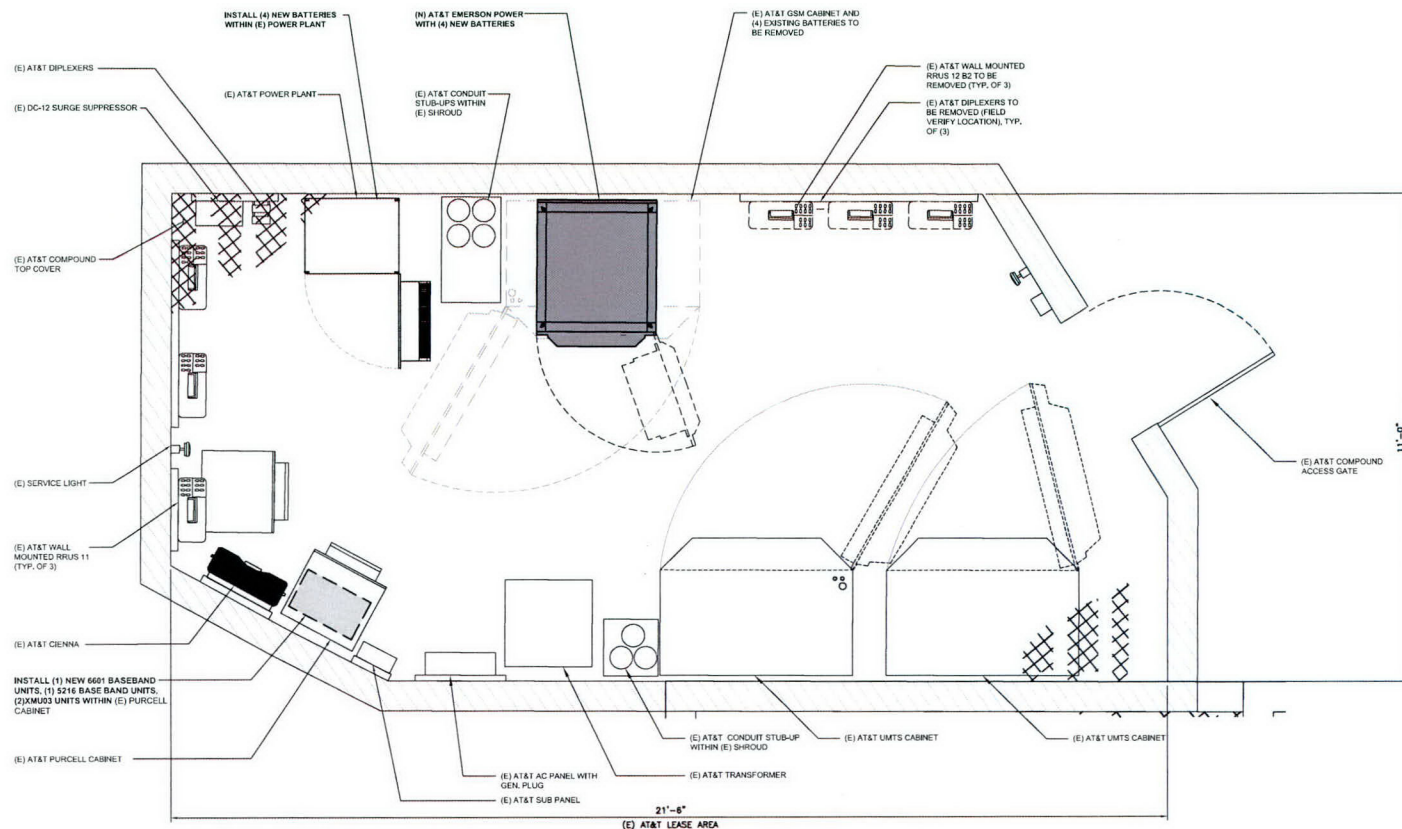
1.3 SITE MAINTENANCE AND PROTECTION:

- PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT.
- AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- KEEP SITE FREE OF ALL PONDING WATER.
- PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.
- PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- EXISTING UTILITIES DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

- PROVIDE A MINIMUM 48-HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

PART 2 - PRODUCTS

- SUITABLE BACKFILL: ASTM D2321 (CLASS I, II, III OR IV) FREE FROM FROZEN LUMPS, REFUSE/STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- NON-POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS II, III OR IV) COARSE AGGREGATE, FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS I, II, III OR IV) COARSE AGGREGATE, FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- SELECT STRUCTURAL FILL: GRANULAR FILL MATERIAL MEETING THE REQUIREMENTS OF ASTM E850-95, FOR USE AROUND AND UNDER STRUCTURES WHERE STRUCTURAL FILL MATERIAL ARE REQUIRED.
- GRANULAR BEDDING: TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D695 (SIEVE OF 20-30).
- COARSE AGGREGATE FOR ACCESS ROAD SUBGRADE COURSE SHALL CONFORM TO ASTM D2940.
- UNDESIRABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (L-15, L-20), MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 5 INCHES IN ANY DIMENSION, AND DEBRIS AS APPROVED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT. III, CH. 1, CL. 1, CL. 2, CL. 3, CL. 4, CL. 5, CL. 6, CL. 7, CL. 8, CL. 9, CL. 10, CL. 11, CL. 12, CL. 13, CL. 14, CL. 15, CL. 16, CL. 17, CL. 18, CL. 19, CL. 20, CL. 21, CL. 22, CL. 23, CL. 24, CL. 25, CL. 26, CL. 27, CL. 28, CL. 29, CL. 30, CL. 31, CL. 32, CL. 33, CL. 34, CL. 35, CL. 36, CL. 37, CL. 38, CL. 39, CL. 40, CL. 41, CL. 42, CL. 43, CL. 44, CL. 45, CL. 46, CL. 47, CL. 48, CL. 49, CL. 50, CL. 51, CL. 52, CL. 53, CL. 54, CL. 55, CL. 56, CL. 57, CL. 58, CL. 59, CL. 60, CL. 61, CL. 62, CL. 63, CL. 64, CL. 65, CL. 66, CL. 67, CL. 68, CL. 69, CL. 70, CL. 71, CL. 72, CL. 73, CL. 74, CL. 75, CL. 76, CL. 77, CL. 78, CL. 79, CL. 80, CL. 81, CL. 82, CL. 83, CL. 84, CL. 85, CL. 86, CL. 87, CL. 88, CL. 89, CL. 90, CL. 91, CL. 92, CL. 93, CL. 94, CL. 95, CL. 96, CL. 97, CL. 98, CL. 99, CL. 100, CL. 101, CL. 102, CL. 103, CL. 104, CL. 105, CL. 106, CL. 107, CL. 108, CL. 109, CL. 110, CL. 111, CL. 112, CL. 113, CL. 114, CL. 115, CL. 116, CL. 117, CL. 118, CL. 119, CL. 120, CL. 121, CL. 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SECTOR	ANTENNA POSITION	EXISTING REMOTE RADIO UNITS		DC CABLES	
		MODEL	RRUS COUNT	LENGTH	AWG
SECTOR A	1	RRUS 11, RRUS 12 B2*	2	±120'	-
	2	-	-	-	-
	3	-	-	-	-
SECTOR B	1	RRUS 11, RRUS 12 B2*	2	±120'	-
	2	-	-	-	-
	3	-	-	-	-
SECTOR C	1	RRUS 11, RRUS 12 B2*	2	±120'	-
	2	-	-	-	-
	3	-	-	-	-
TOTAL		6			

* DENOTES RRUS TO BE REMOVED

SECTOR	ANTENNA POSITION	NEW/FINAL REMOTE RADIO UNITS		DC CABLES	
		MODEL	RRUS COUNT	LENGTH	AWG
SECTOR A	1	RRUS 11, (N) RRUS 32 B2**	2	±120'	-
	2	(N) RRUS 32 B66**, (N) RRUS B14 447B**	2	±120'	-
	3	-	-	-	-
	4	(N) RRUS 32**	1	±120'	-
SECTOR B	1	RRUS 11, (N) RRUS 32 B2**	2	±120'	-
	2	(N) RRUS 32 B66**, (N) RRUS B14 447B**	2	±120'	-
	3	-	-	-	-
	4	(N) RRUS 32**	1	±120'	-
SECTOR C	1	RRUS 11, (N) RRUS 32 B2**	2	±120'	-
	2	(N) RRUS 32 B66**, (N) RRUS B14 447B**	2	±120'	-
	3	-	-	-	-
	4	(N) RRUS 32**	1	±120'	-
TOTAL		15			

** DENOTES RRUS TO BE MOUNTED AT TOP ANTENNA LEVEL

BATTERY RACK
(8) QNB M12V155 FT
AT 118 LBS PER BATTERY
8 X 118 LBS = 944 LBS
TOTAL BATTERY WEIGHT = 944 LBS
PER MATERIAL SAFETY DATA SHEET
ELECTROLYTE (SULFURIC ACID) = 16 TO 18% BY WEIGHT PER BATTERY X 15%
TOTAL SULFURIC ACID = 169.92 LBS
GALLONS TO POUNDS
1 US GAL = 10.66 LBS
TOTAL GALLONS 16 GALLONS OF SULFURIC ACID

SUMMARY:

- 16 GALLONS = 50 GALLONS
- THIS SITE IS NOT REQUIRED TO COMPLY WITH THE REQUIREMENTS SET FORTH IN SECTION 608 OF THE CALIFORNIA FIRE CODE
- 16 GALLONS = 55 GALLONS
- COUNTY OF SAN DIEGO HAZMAT BUSINESS PLAN IS NOT REQUIRED



EQUIPMENT LAYOUT

24"x36" SCALE: 3/4" = 1'-0"
11"x17" SCALE: 3/8" = 1'-0"

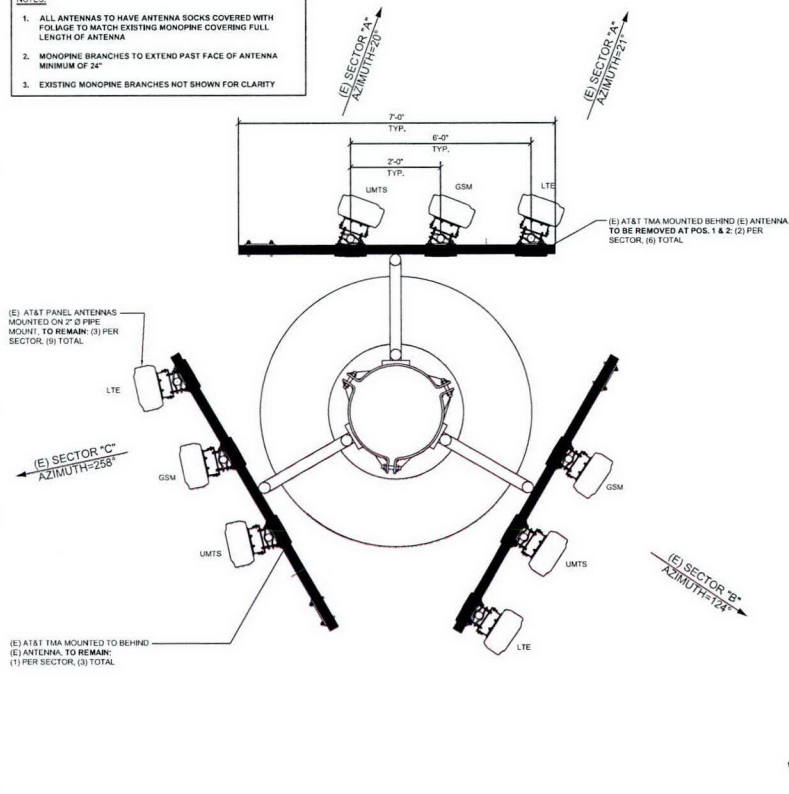


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APPLICANT																	
PLANNING	 13948 CALLE BUENO CANAR JANU, CA 91935																
ENGINEER	 1387 CALLE AVAREADO SAN CLEMENTE CA 92673 (949) 391-0224																
SITE INFORMATION	SITE NUMBER: NS0622 FA NUMBER: 10105310 CAMINO RUIZ PARK 11498 CAMINO RUIZ SAN DIEGO, CA 92126 SAN DIEGO COUNTY MONO-BROADLEAF																
DESIGN RECORD	<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td>1</td> <td>12/11/2017</td> <td>100% QTS FOR REVIEW</td> <td>AF</td> </tr> <tr> <td>2</td> <td>11/27/2017</td> <td>100% QTS FOR REVIEW</td> <td>AF</td> </tr> <tr> <td>3</td> <td>11/29/2017</td> <td>100% QTS FOR REVIEW</td> <td>AF</td> </tr> </table>	REV	DATE	DESCRIPTION	BY	1	12/11/2017	100% QTS FOR REVIEW	AF	2	11/27/2017	100% QTS FOR REVIEW	AF	3	11/29/2017	100% QTS FOR REVIEW	AF
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SHEET TITLE	EQUIPMENT LAYOUT PLAN																
SHEET NUMBER	A-2																

EXISTING OPTIMAL ANTENNA AND TRANSMISSION CABLES REQUIREMENT (VERIFY WITH CURRENT RFDS)						
ANTENNA	EXISTING TECHNOLOGY	ANTENNA MODEL	ANTENNA AZIMUTH	RAD CENTER	LENGTH	TRANSMISSION LINE
ALPHA SECTOR	A1	LTE	KATHREIN 80010765 (E-37)	21°	24'-0"	(E) FIBER
	A2	GSM	KATHREIN 80010765 (E-37)	21°	24'-0"	(E) MAIN COAX
	A3	UMTS	KATHREIN 80010765 (E-37)	20°	24'-0"	(E) MAIN COAX
	A4	-	-	-	-	-
BETA SECTOR	B1	LTE	KATHREIN 80010765 (E-37)	124°	24'-0"	(E) FIBER
	B2	GSM	KATHREIN 80010765 (E-37)	124°	24'-0"	(E) MAIN COAX
	B3	UMTS	KATHREIN 80010765 (E-37)	124°	24'-0"	(E) MAIN COAX
	B4	-	-	-	-	-
GAMMA SECTOR	C1	LTE	KATHREIN 80010765 (E-37)	258°	24'-0"	(E) FIBER
	C2	GSM	KATHREIN 80010765 (E-37)	258°	24'-0"	(E) MAIN COAX
	C3	UMTS	KATHREIN 80010765 (E-37)	258°	24'-0"	(E) MAIN COAX
	C4	-	-	-	-	-

- NOTES:**
- ALL ANTENNAS TO HAVE ANTENNA SOCKS COVERED WITH FOLIAGE TO MATCH EXISTING MONOPINE COVERING FULL LENGTH OF ANTENNA
 - MONOPINE BRANCHES TO EXTEND PAST FACE OF ANTENNA MINIMUM OF 24"
 - EXISTING MONOPINE BRANCHES NOT SHOWN FOR CLARITY



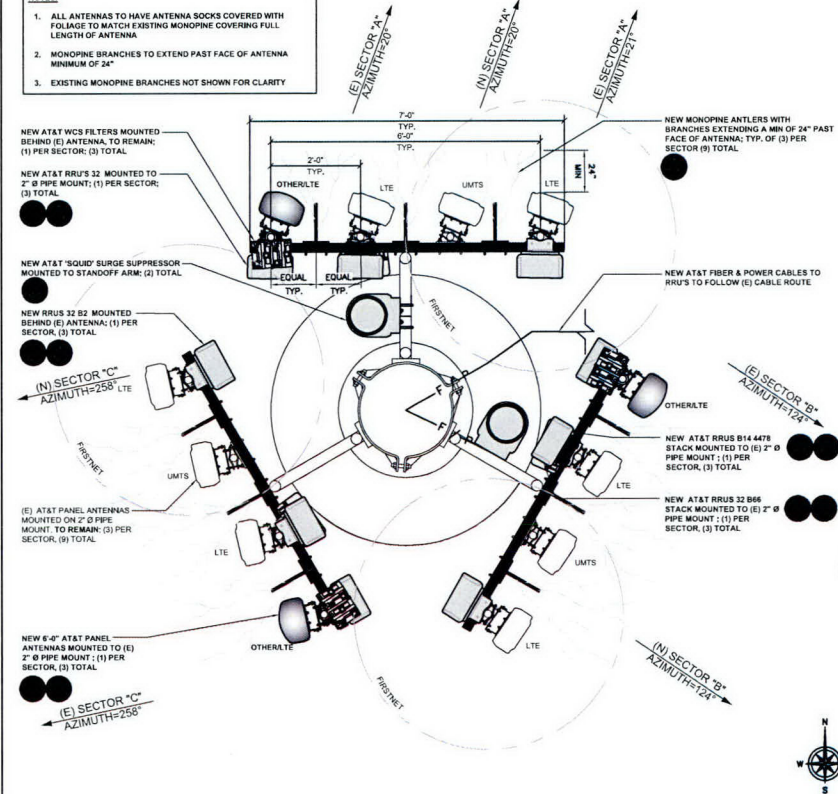
EXISTING ANTENNA LAYOUT

24"x36" SCALE: 3/4" = 1'-0"
11"x17" SCALE: 3/8" = 1'-0"

2

NEW/FINAL OPTIMAL ANTENNA AND TRANSMISSION CABLES REQUIREMENT (VERIFY WITH CURRENT RFDS)						
ANTENNA	NEW TECHNOLOGY	ANTENNA MODEL	ANTENNA AZIMUTH	RAD CENTER	LENGTH	TRANSMISSION LINE
ALPHA SECTOR	A1	LTE	KATHREIN 80010765 (E-37)	21°	24'-0"	(E) FIBER
	A2	UMTS	KATHREIN 80010765 (E-37)	21°	24'-0"	(E) MAIN COAX
	A3	LTE	KATHREIN 80010765 (E-37)	20°	24'-0"	(E) FIBER
	A4	OTHER/LTE	COMMSCOPE SBA44H-DC038 (E-47)	21°	24'-0"	(N) FIBER
BETA SECTOR	B1	LTE	KATHREIN 80010765 (E-37)	124°	24'-0"	(E) FIBER
	B2	UMTS	KATHREIN 80010765 (E-37)	124°	24'-0"	(E) MAIN COAX
	B3	LTE	KATHREIN 80010765 (E-37)	124°	24'-0"	(E) MAIN COAX
	B4	OTHER/LTE	COMMSCOPE SBA44H-DC038 (E-47)	124°	24'-0"	(N) FIBER
GAMMA SECTOR	C1	LTE	KATHREIN 80010765 (E-37)	258°	24'-0"	(E) FIBER
	C2	UMTS	KATHREIN 80010765 (E-37)	258°	24'-0"	(E) MAIN COAX
	C3	LTE	KATHREIN 80010765 (E-37)	258°	24'-0"	(E) MAIN COAX
	C4	OTHER/LTE	COMMSCOPE SBA44H-DC038 (E-47)	258°	24'-0"	(N) FIBER

- NOTES:**
- ALL ANTENNAS TO HAVE ANTENNA SOCKS COVERED WITH FOLIAGE TO MATCH EXISTING MONOPINE COVERING FULL LENGTH OF ANTENNA
 - MONOPINE BRANCHES TO EXTEND PAST FACE OF ANTENNA MINIMUM OF 24"
 - EXISTING MONOPINE BRANCHES NOT SHOWN FOR CLARITY



NEW ANTENNA LAYOUT

NEW/FINAL REMOTE RADIO UNITS			
ANTENNA POSITION	MODEL	RRUS COUNT	DC CABLES
1	RRUS 11 (N) RRUS 32 B2**	2	±120'
2	(N) RRUS 32 B66** (N) RRUS B14 447B**	2	±120'
3	(N) RRUS 32**	1	±120'
4	RRUS 11 (N) RRUS 32 B2**	2	±120'
5	(N) RRUS 32 B66** (N) RRUS B14 447B**	2	±120'
6	(N) RRUS 32**	1	±120'
7	RRUS 11 (N) RRUS 32 B2**	2	±120'
8	(N) RRUS 32 B66** (N) RRUS B14 447B**	2	±120'
9	(N) RRUS 32**	1	±120'
TOTAL		15	

- NOTES TO CONTRACTOR:**
- CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION
 - CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK
 - CONTRACTOR TO VERIFY PORTS HAVE SUFFICIENT ROOM
 - NEW ANTENNAS TO BE PROVIDED WITH 'FAUX FOLIAGE' COVER TO MATCH EXISTING

13948 CALLE BUENO OVAR
JUAL, CA 91935

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JUAL, CA 91935

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JUAL, CA 91935

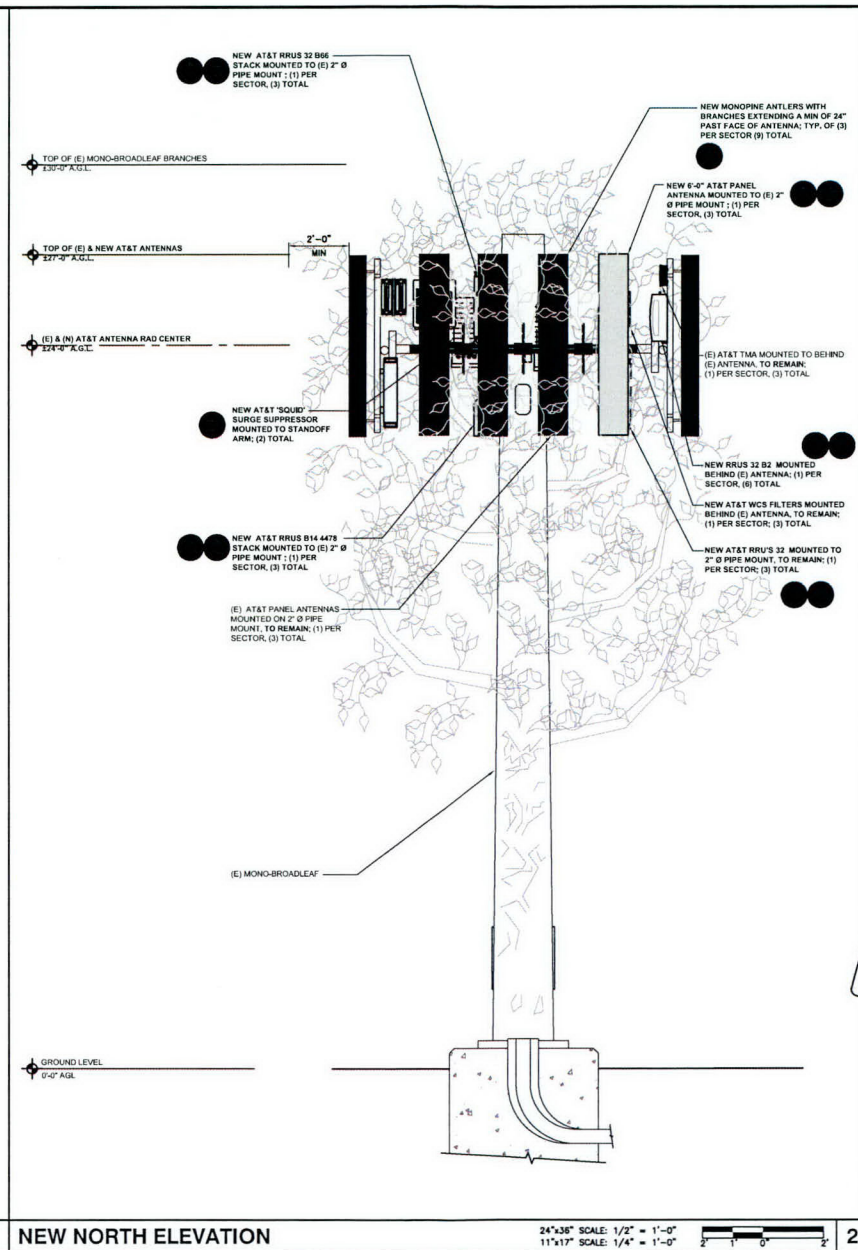
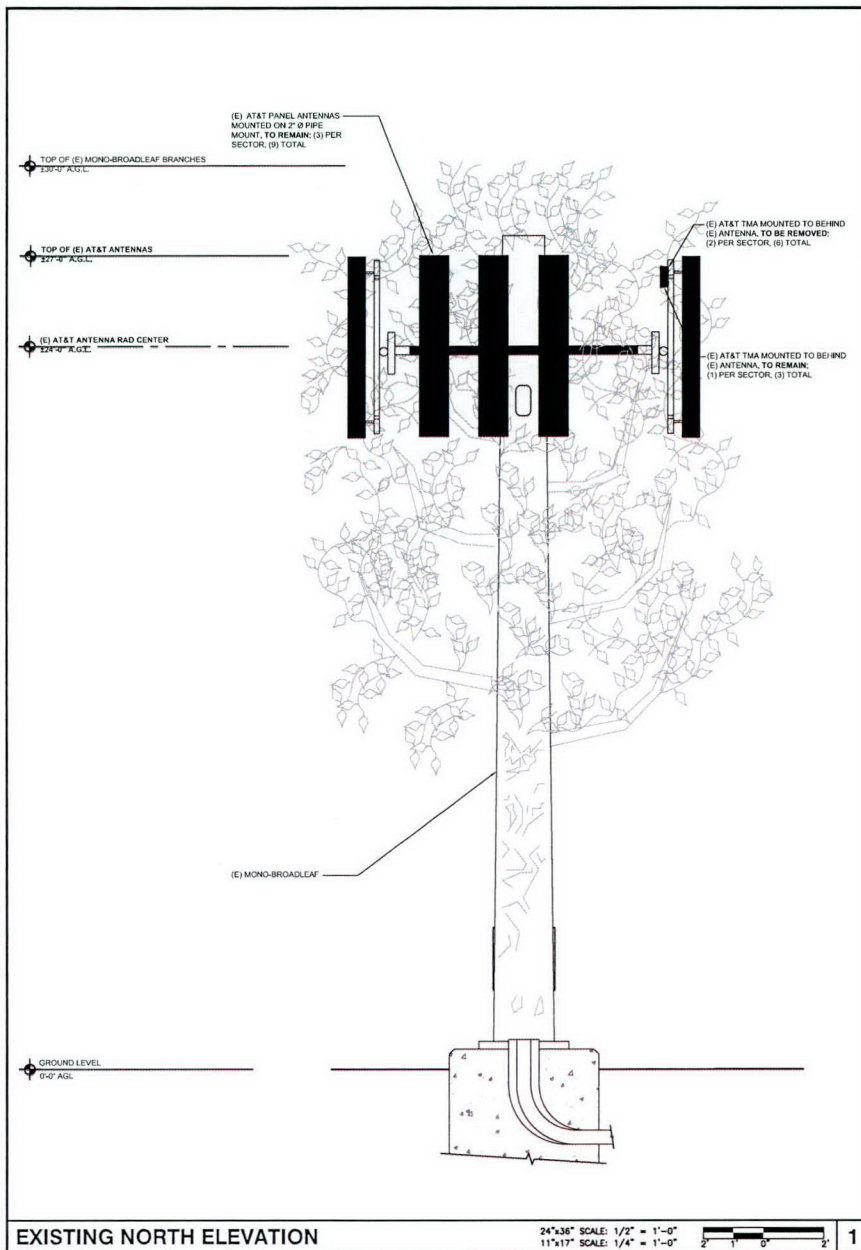
SITE NUMBER: NS0622
FA NUMBER: 10105310
CAMINO RUIZ PARK
11498 CAMINO RUIZ
SAN DIEGO, CA 92126
SAN DIEGO COUNTY
MONO-BROADLEAF

REV	DATE	DESCRIPTION	BY
1	12/11/2017	100% CDR FOR REVIEW	AF
2	11/21/2017	100% CDR FOR REVIEW	AF
3	11/20/2017	100% CDR FOR REVIEW	AF

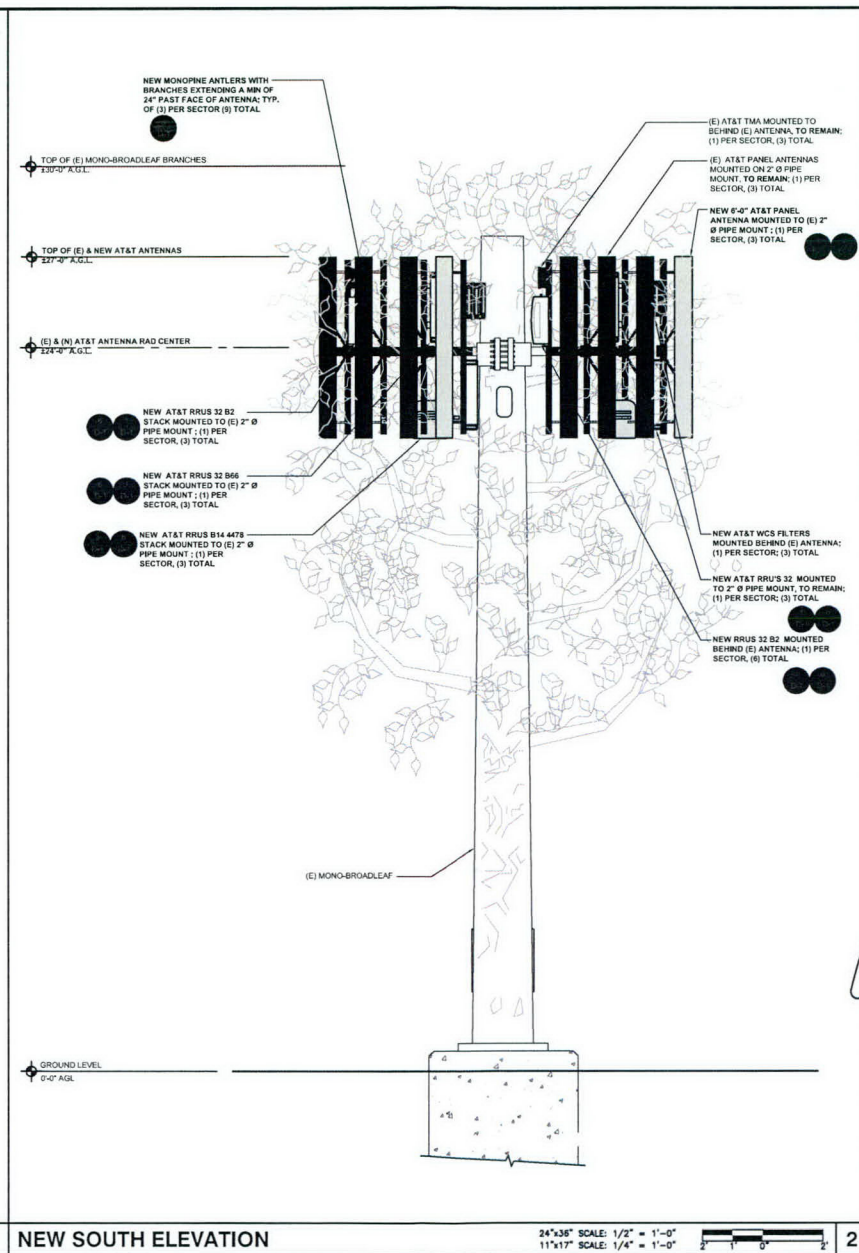
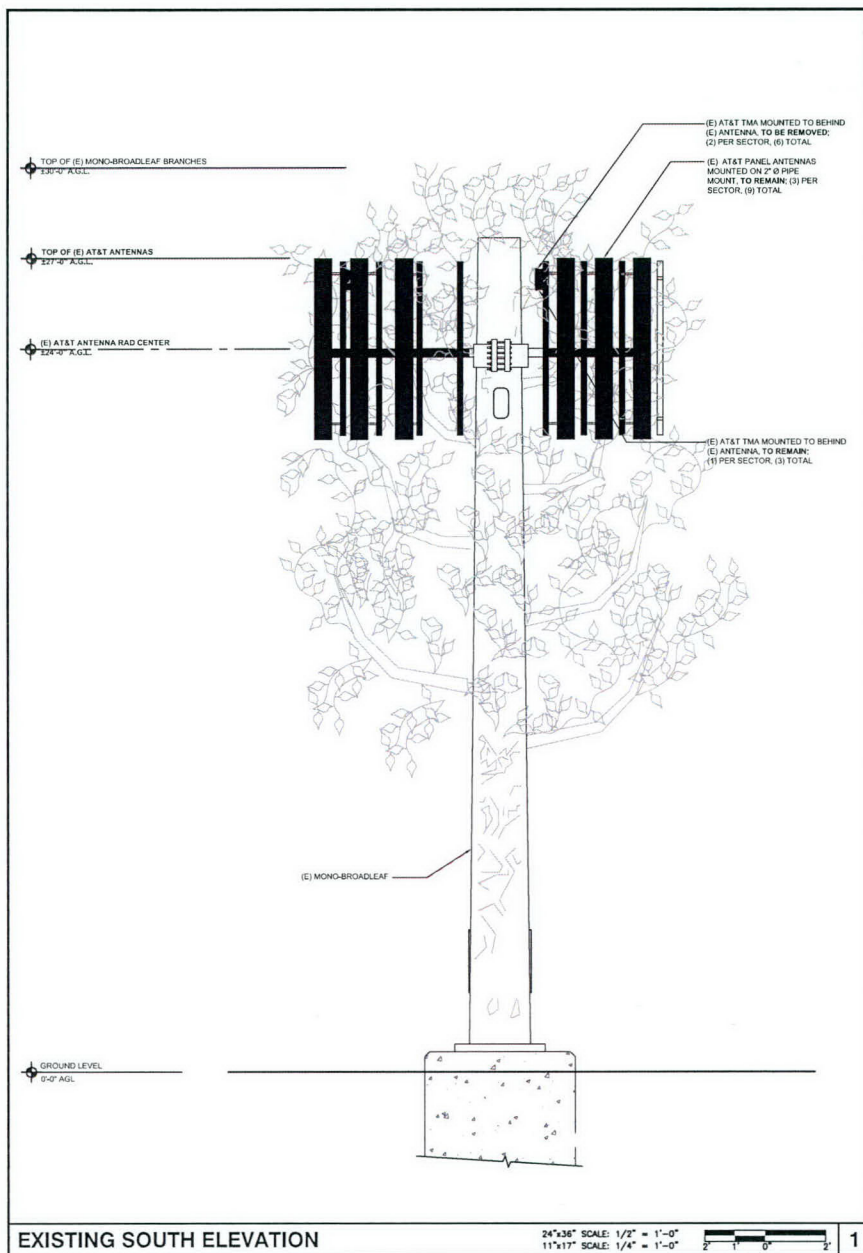
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ANTENNA LAYOUT

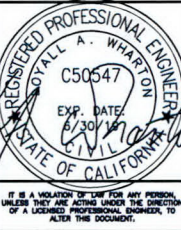
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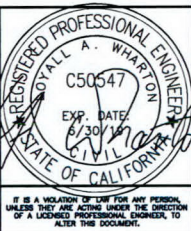


APPLICANT																		
PLANNING	 13048 CALLE BUENO GANAR JAMUL, CA 91935																	
ENGINEER	 1387 CALLE AVAREADO SAN CLEMENTE CA 92673 (949) 391-8824																	
SITE INFORMATION	SITE NUMBER: NS0622 FA NUMBER: 10105310 CAMINO RUIZ PARK 11498 CAMINO RUIZ SAN DIEGO, CA 92126 SAN DIEGO COUNTY MONO-BROADLEAF																	
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SHEET TITLE	ELEVATIONS																	
SHEET NUMBER	A-4																	



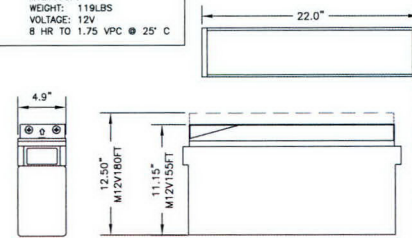
APPLICANT																			
PLANNING	 13948 CALLE BUENO GAVAR JANU, CA 91935																		
ENGINEER	 1387 CALLE AVAREZADO SAN CLEMENTE CA 92673 (949) 391-0884																		
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PROFESSIONAL STAMP																			
SHEET TITLE	ELEVATIONS																		
SHEET NUMBER	A-5																		

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 8	MONOPINE ANTLER 24"x36" SCALE: NTS 11"x17" SCALE: NTS 5	NEW RRUS B14 4478 24"x36" SCALE: NTS 11"x17" SCALE: NTS 3	APPLICANT  PLANNING  13048 CALLE BUENO GANAR JANUL, CA 91935 ENGINEER  1307 CALLE AVANZADO SAN CLEMENTE CA 92673 (949) 391-4824																																			
RAYCAP DC6-48-60-18-8F DIMENSIONS, WxDxH: 280x610MM (11"x24") NOMINAL OPERATING VOLTAGE: 48 VDC NOMINAL DISCHARGE CURRENT: 20 KA 8/20MS MAXIMUM DISCHARGE CURRENT: 60 KA 8/20MS MAXIMUM CONTINUOUS OPERATING VOLTAGE: 75 VDC VOLTAGE PROTECTION RATING: 400 V WIND LOADING: 150 MPH (SUSTAINED) 195 MPH (GUST) TOTAL WEIGHT: 32.8 LBS NOTE: TO BE INSTALLED WITHIN 10 FEET OF RADIO UNIT CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION RAYCAP "SQUID" DC SURGE PROTECTOR MOUNTING BRACKET BY MANUFACTURER 11" 24" 18" MOUNT 5" 10.5" 17"	MAXIMUM TORQUE <table border="1"> <tr> <td>M8</td> <td>15N.m (11FT.LBS)</td> </tr> <tr> <td>M10</td> <td>37N.m (27FT.LBS)</td> </tr> <tr> <td>M12</td> <td>58N.m (43FT.LBS)</td> </tr> </table> M10 BOLT M10 BOLT M12 BOLT CRITICAL: FOR INITIAL INSTALLATION TO PIPE, DOWNLIFT BRACKETS MUST BE CONFIGURED IN PRE-ASSEMBLY POSITION (FULLY COLLAPSED) ATTENTION: INSERT M12 BOLTS AND M12 FLAT WASHERS INTO BRACKET WITH TABS PRIOR TO ATTACHING BRACKET TO ANTENNA. NEW ANTENNA MOUNTING BRACKET: BSAANT-1 (INCLUDED) PANEL ANTENNA NEW ANTENNA MOUNTING BRACKET: BSAANT-1 (INCLUDED) 3" STD. PIPE (3-1/2" O.D.) ANTENNA MOUNTING MAST, MIN. 6'-0" L (ATTACH TO EXISTING CROSSARM W/ SITE PRO 1 PK: SCX-4 CROSSOVER KIT) EXISTING OR NEW RRU MOUNTED BEHIND PANEL ANTENNA MAXIMUM TORQUE <table border="1"> <tr> <td>M10</td> <td>37N.m (27FT.LBS)</td> </tr> <tr> <td>M12</td> <td>58N.m (43FT.LBS)</td> </tr> </table>	M8	15N.m (11FT.LBS)	M10	37N.m (27FT.LBS)	M12	58N.m (43FT.LBS)	M10	37N.m (27FT.LBS)	M12	58N.m (43FT.LBS)	MANUFACTURER: COMSCOPE MODEL NO.: SBJ44-10658-DL DIMENSIONS: <table border="1"> <tr> <td>A</td> <td>72"</td> <td>TOTAL WEIGHT:</td> </tr> <tr> <td>B</td> <td>13.8"</td> <td>58 LBS</td> </tr> <tr> <td>C</td> <td>8.2"</td> <td></td> </tr> </table> TOP VIEW FRONT VIEW SIDE VIEW	A	72"	TOTAL WEIGHT:	B	13.8"	58 LBS	C	8.2"		SITE INFORMATION SITE NUMBER: NS0622 FA NUMBER: 10105310 CAMINO RUIZ PARK 11498 CAMINO RUIZ SAN DIEGO, CA 92126 SAN DIEGO COUNTY MONO-BROADLEAF DESIGN RECORD <table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td>1</td> <td>12/11/2017</td> <td>ISSUE SETS FOR REVIEW</td> <td>AT</td> </tr> <tr> <td>0</td> <td>11/21/2017</td> <td>ISSUE SETS FOR REVIEW</td> <td>AT</td> </tr> <tr> <td>A</td> <td>11/29/2017</td> <td>ISSUE SETS FOR REVIEW</td> <td>AT</td> </tr> </table>	REV	DATE	DESCRIPTION	BY	1	12/11/2017	ISSUE SETS FOR REVIEW	AT	0	11/21/2017	ISSUE SETS FOR REVIEW	AT	A	11/29/2017	ISSUE SETS FOR REVIEW	AT
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DC-6 "SQUID" SURGE SUPPRESSOR 7	NEW ANTENNA MOUNTING DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS 4	NEW 6'-0" PANEL ANTENNA 24"x36" SCALE: NTS 11"x17" SCALE: NTS 2	PROFESSIONAL STAMP  IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT. DETAILS D-1																																			
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				PLANNING	 13948 CALLE BUENO OAVAR JAMUL, CA 91935																
				ENGINEER	 1387 CALLE AVAREADO SAN CLEMENTE CA 92673 (949) 391-6831																
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				SHEET NUMBER	D-2																
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				NETSURE 512 DC POWER SYSTEM	24"x36" SCALE: NTS 11"x17" SCALE: NTS																
				1	1																

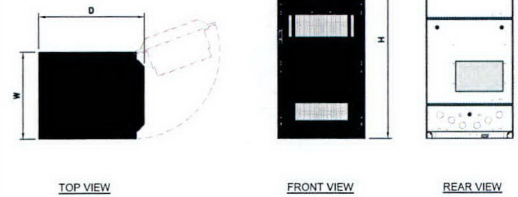
MANUFACTURER: GNB
 MODEL NO: M12V180FT
 HEIGHT: 12.5" WEIGHT: 133LBS
 WIDTH: 4.90" VOLTAGE: 12V
 DEPTH: 22.00" 8 HR TO 1.75 VPC @ 25° C

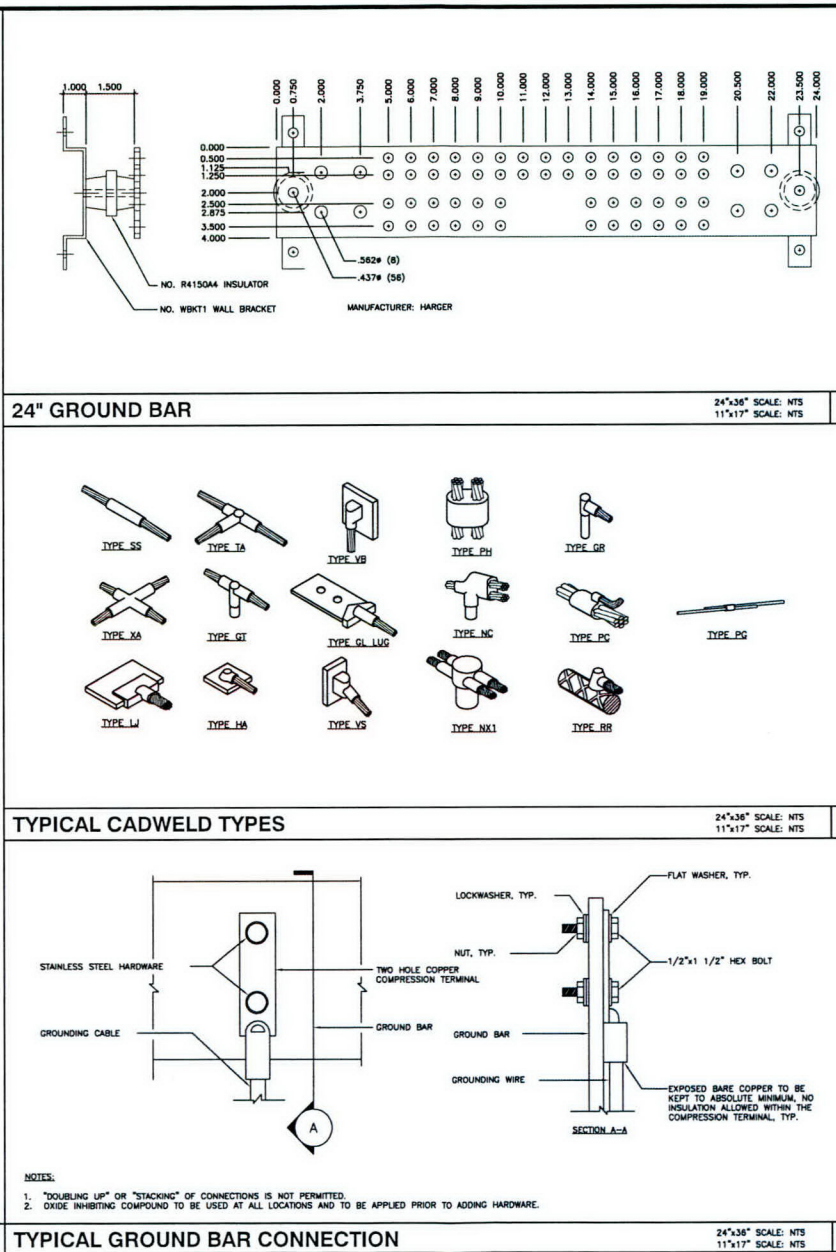
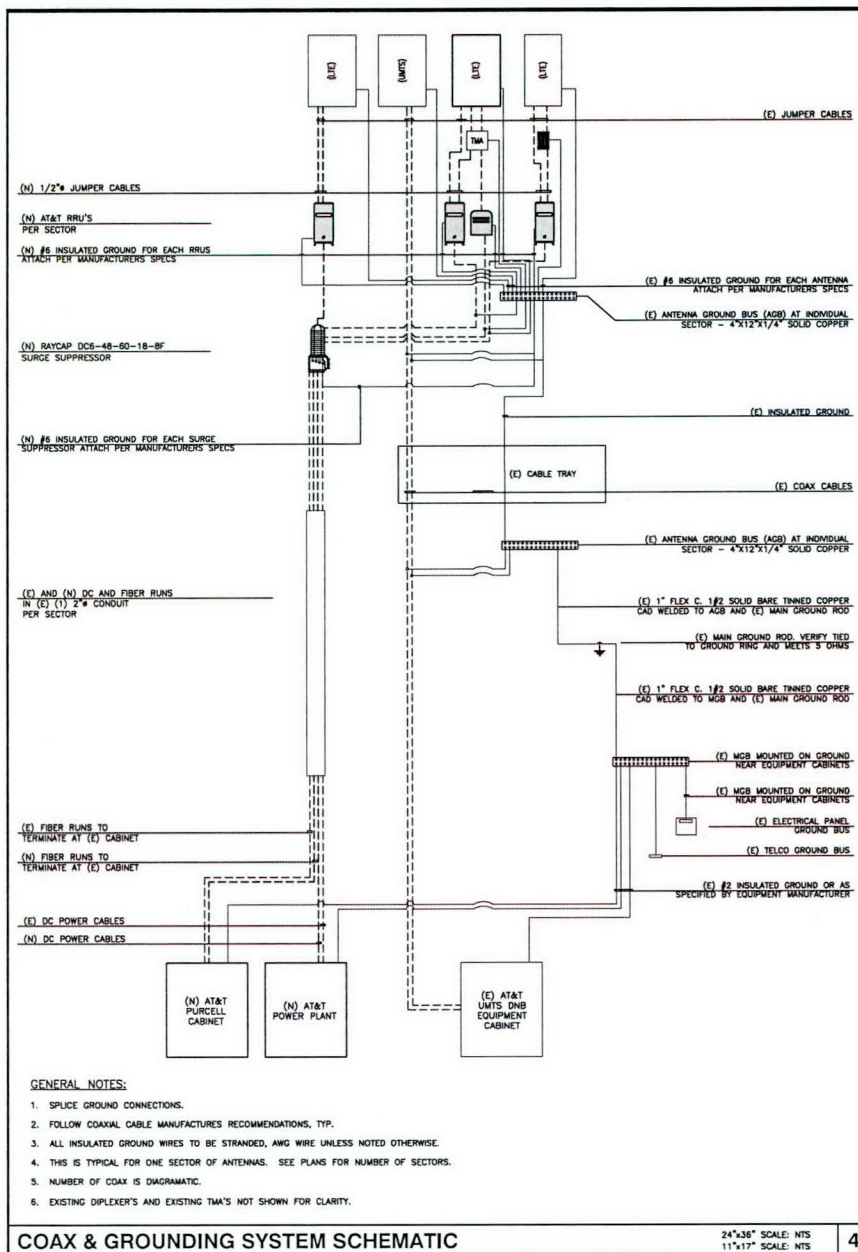
MANUFACTURER: GNB
 MODEL NO: M12V155FT
 HEIGHT: 11.15" WEIGHT: 119LBS
 WIDTH: 4.90" VOLTAGE: 12V
 DEPTH: 22.00" 8 HR TO 1.75 VPC @ 25° C



EMERSON NETWORK POWER
 NETX111ND FLEX CABINET - P2012504
 -48VDC/54VDC POWER & BATTERY ENCLOSURE

HEIGHT (H)	72"
WIDTH (W)	32"
DEPTH (D)	39"
WEIGHT	752 LBS.
MOUNTING:	PAD/ PLATFORM





APPLICANT

at&t

PLANNING

Deprattinc.

13948 CALLE BUENO OMBAR
JANUL, CA 91935

ENGINEER

M SQUARE WIRELESS

1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-0884

SITE INFORMATION

SITE NUMBER: NS0622
FA NUMBER: 10105310
CAMINO RUIZ PARK
11498 CAMINO RUIZ
SAN DIEGO, CA 92126
SAN DIEGO COUNTY
MONO-BROADLEAF

DESIGN RECORD

REV	DATE	DESCRIPTION	BY
1	10/11/2017	100% QTS FOR REVIEW	W
2	11/21/2017	100% QTS FOR REVIEW	W
3	11/22/2017	100% QTS FOR REVIEW	W

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
ROYAL A. WHARTON
C50547
EXP. DATE: 6/30/2020
STATE OF CALIFORNIA

SHEET TITLE

GROUNDING SCHEMATIC & GROUNDING DETAILS

SHEET NUMBER

G-1

SITE WORK & DRAINAGE

PART 1 - GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE NEW WORK SHOWN IN THESE PLANS.

1.1 REFERENCES:

- DOT STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION—CURRENT EDITION.
- ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

1.2 INSPECTION AND TESTING:

- FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY SUBCONTRACTORS INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE SUBCONTRACTOR.
- ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE SUBCONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

1.3 SITE MAINTENANCE AND PROTECTION:

- PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT.
- AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- KEEP SITE FREE OF ALL PONDING WATER.
- PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT AND EPA REQUIREMENTS.
- PROVIDE AND MAINTAIN FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE ENGINEER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- PROVIDE A MINIMUM 48-HOUR NOTICE TO THE ENGINEER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

PART 2 - PRODUCTS

- 2.1 SUITABLE BACKFILL: ASTM D2321 (CLASS II, III, OR IV) FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.2 NON-POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS II, III, OR IV) COARSE AGGREGATE, FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.3 POROUS GRANULAR EMBANKMENT AND BACKFILL: ASTM D2321 (CLASS II, III, OR IV) COARSE AGGREGATE FREE FROM FROZEN LUMPS, REFUSE, STONES OR ROCKS LARGER THAN 3 INCHES IN ANY DIMENSION OR OTHER MATERIAL THAT MAY MAKE THE INORGANIC MATERIAL UNSUITABLE FOR BACKFILL.
- 2.4 SELECT STRUCTURAL FILL: GRANULAR FILL MATERIAL MEETING THE REQUIREMENTS OF ASTM E850-95, FOR USE AROUND AND UNDER STRUCTURES WHERE STRUCTURAL FILL MATERIAL IS REQUIRED.
- 2.5 GRANULAR BEDDING AND TRENCH BACKFILL: GRANULAR BEDDING AND TRENCH BACKFILL SHALL MEET THE REQUIREMENTS OF ASTM D2440.
- 2.6 COARSE AGGREGATE FOR ACCESS ROAD SUBBASE COURSE SHALL CONFORM TO ASTM D2440.
- 2.7 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL > 40), MATERIALS CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, OR OTHER DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PI, MH, CH, OH, ML, OL, AND CL.
- 2.8 GEOTEXTILE FABRIC: MIRAFI 5000 OR APPROVED EQUAL.
- 2.9 PLASTIC MARKING TAPE: SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES, 8 INCHES WIDE WITH A MINIMUM THICKNESS OF 0.005 INCHES MINIMUM STRENGTH OF 1500 PSI IN BOTH DIRECTIONS AND MANUFACTURED WITH INTEGRAL CONDUCTORS, FOL BACKING OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3 FEET DEEP. THE METALLIC CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR PROVIDED WITH OTHER MEANS TO PROTECT IT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION UTILITIES.

PART 2 - EXECUTION

3.1 GENERAL:

- BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINAGE AT ALL TIMES.
- BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK. TREES, BRUSH, STUMP, RUBBERBUSH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.

1. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE, ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, MAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 8 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
2. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNSUITABLE MATERIALS. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.
3. REMOVE FROM THE SITE AND DISPOSE OF IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
4. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE NEW CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
5. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIAL TO BE REUSED. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.

3.2 BACKFILL:

- AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURE-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEARED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 4-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
- WHENEVER THE DENSITY TESTING METHOD THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.
- B THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.3 TRENCH EXCAVATION:

- UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTER EDGE OF THE OUTERMOST CONDUIT.
- WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, BACKFILL AT THE REQUIRED TRENCH WIDTH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS.
- PROTECT CONDUIT FROM LATER MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.5 AGGREGATE ACCESS ROAD:

- CLEAR, GRUB, STRIP AND EXCAVATE FOR THE ACCESS ROAD TO THE LINES AND GRADES INDICATED ON THE DRAWINGS. SCARIFY TO A DEPTH OF 8 INCHES AND PROOF-ROLL. ALL HOLES, RUTS, SOFT PLACES AND OTHER DEFECTS SHALL BE CORRECTED.
- THE ENTIRE SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 1557.
- AFTER PREPARATION OF THE SUBGRADE IS COMPLETE, THE GEOTEXTILE FABRIC (MIRAFI 5000) SHALL BE INSTALLED TO THE LIMITS INDICATED ON THE DRAWINGS BY ROLLING THE FABRIC OUT LONGITUDINALLY ALONG THE ROADWAY. THE FABRIC SHALL NOT BE DRAGGED ACROSS THE SUBGRADE. PLACE THE ENTIRE ROLL IN A SINGLE OPERATION, ROLLING OUT AS SMOOTHLY AS POSSIBLE.
- OVERLAP PARALLEL TO THE ROADWAY WILL BE PERMITTED AT THE CENTERLINE AND AT LOCATIONS BEYOND THE ROADWAY SURFACE WIDTH (I.E. WITHIN THE SHOULDER WIDTH) ONLY. NO LONGITUDINAL OVERLAPS SHALL BE LOCATED BETWEEN THE CENTERLINE AND THE SHOULDER. PARALLEL OVERLAPS SHALL BE A MINIMUM OF 3 FEET WIDE.
- TRANSVERSE (PERPENDICULAR TO THE ROADWAY) OVERLAPS AT THE END OF A ROLL SHALL OVERLAP IN THE DIRECTION OF THE AGGREGATE PLACEMENT (PREVIOUS ROLL ON TOP) AND SHALL HAVE A MINIMUM LENGTH OF 3 FEET.
- ALL OVERLAPS SHALL BE FINISHED WITH STAPLES OR NAILS A MINIMUM OF 10 INCHES LONG TO INSURE POSITIONING DURING PLACEMENT OF AGGREGATE. PER LONGITUDINAL SEAMS AT 20 FOOT CENTERS AND TRANSVERSE SEAMS EVERY 5 FEET.
- THE AGGREGATE SEAMS AND JOINTS COURSES SHALL BE CONSTRUCTED IN LAYERS NOT MORE THAN 4 INCH (COMPACTED) THICKNESS. AGGREGATE TO BE PLACED ON GEOTEXTILE FABRIC SHALL BE END-DUMPED ON THE FABRIC FROM THE FREE END OF THE FABRIC OR OVER PREVIOUSLY PLACED AGGREGATE. THE FIRST LIFT SHALL BE BACKED DOWN TO A THICKNESS OF 8 INCHES PRIOR TO COMPACTION. AT NO TIME SHALL EQUIPMENT, EITHER TRANSPORTING THE AGGREGATE OR GRADING THE AGGREGATE, BE PERMITTED TO EXCEED A THICKNESS OF 4 INCHES OF MATERIAL COVERING THE FABRIC.
- THE AGGREGATE SHALL BE IMMEDIATELY COMPACTED TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE PROCTOR TEST, ASTM D 1557 WITH A JAWING ROLLER, OR WITH A PNEUMATIC-TIRED ROLLER, OR WITH A VIBRATING MACHINE OR ANY COMBINATION OF THE ABOVE. THE TOP LAYER SHALL BE GIVEN A FINAL ROLL WITH A THREE-WHEEL OR TANDUM ROLLER.

3.6 FINISH GRADING:

- PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- UTILITY SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- ACHIEVE FINISHED GRADE BY PLACING A MINIMUM OF 4 INCHES OF 1/2" - 3/4" CRUSHED STONE ON TOP SOIL STABILIZER FABRIC.
- REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

3.7 ASPHALT PAVING ROAD:

- DIVISION 800 - KDOT FLEXIBLE PAVEMENT. (UPDATE PER LOCAL DOT)
- SECTION 403 - MODOT ASPHALT CONCRETE PAVEMENT.

ENVIRONMENTAL NOTES

1. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
2. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
3. CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION.
4. NO SEDIMENT SHALL BE ALLOWED TO EXIT THE PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION. ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY.
6. CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
7. SEEDING AND MULCHING AND/OR SOIL COVERING OF THE EXPOSED AREAS SHALL BE AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
8. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
9. ALL SOIL AND ROCK SHALL BE FREE OF CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRAGILE, TEND, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELICIOUS SUBSTANCES.

CONCRETE MASONRY NOTES

1. CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, GRADE N-1, (F_W=1,500 PSI), MEDIUM WEIGHT (115 PCF).
2. MORTAR SHALL BE TYPE "S" MINIMUM 1,800 PSI AT 28 DAYS.
3. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.
4. ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BEHIND WALLS SHALL BE SOLID GROUTED.
5. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.
6. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.
7. ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
8. PROVIDE INSPECTION AND CLEAN-OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.
9. ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.
10. CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.
11. REINFORCING BARS - SEE NOTES UNDER "REINFORCING STEEL" FOR REQUIREMENTS.
12. PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
13. LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.
14. HIGH LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND SECTION 2104.6.1 OF CURRENT BUILDING CODE.
15. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
16. CELLS SHALL BE IN VERTICAL ALIGNMENT, DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
17. REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.
18. SAND SHALL BE CLEAN, SHARP AND WELL GRADED, FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKALI OR ORGANIC MATERIAL.
19. BRICK SHALL CONFORM TO ASTM C-62 AND SHALL BE GRADE WW OR BETTER.

STRUCTURAL CONCRETE NOTES

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301-10, ACI 318-08 AND THE SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F_c)=2,500 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH.....3 IN.

CONCRETE EXPOSED TO EARTH OR WEATHER:

- #5 AND LARGER2 IN.
- #5 AND SMALLER & WWF1-1/2 IN.

CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

- SLAB AND WALL3/4 IN.
- BEAMS AND COLUMNS.....1-1/2 IN.

5. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE U.N.O. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. HOLES TO RECEIVE EXPANSION/WEAR ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. LOCATE AND AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
7. USE AND INSTALLATION OF CONCRETE EXPANSION/WEAR ANCHOR SHALL BE PER ICBO & MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.

STRUCTURAL STEEL NOTES

1. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. STEEL SECTIONS SHALL BE IN ACCORDANCE WITH ASTM AS INDICATED BELOW:
ANGLES, BARS CHANNELS: ASTM A36, 36 KSI
HSS SECTIONS: ASTM A500, 46 KSI
PIPE SECTIONS: ASTM A53-L, 35 KSI
2. ALL EXTERIOR EXPOSED STEEL AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.
3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC WHERE FLEET WELD SIZES ARE NOT SHOWN. PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
4. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE 3/4" CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
5. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
6. FIELD MODIFICATIONS ARE TO BE COATED WITH ZINC ENRICHED PAINT.

APPLICANT



PLANNING



13948 CALLE BUENO GANAR
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ENGINEER



1387 CALLE AVAREZ
SAN CLEMENTE CA 92073 (949) 991-0884

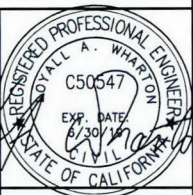
SITE INFORMATION

SITE NUMBER: NS0622
FA NUMBER: 10105310
CAMINO RUIZ PARK
11498 CAMINO RUIZ
SAN DIEGO, CA 92126
SAN DIEGO COUNTY
MONO-BROADLEAF

DESIGN RECORD

REV	DATE	DESCRIPTION	BY
1	12/11/2011	100% QTS FOR REVIEW	AF
2	11/21/2011	100% QTS FOR REVIEW	AF
3	11/26/2011	90% QTS FOR REVIEW	AF

PROFESSIONAL STAMP



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

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

G-2