



**SITE NAME: DEMOS**  
**SITE NUMBER: LA73XC320**  
**AUGMENT ID: LA73XC320E15.1**  
**ADDRESS: 15629 S. ATLANTIC AVE.**  
**AKA: 15629 1/2 S. ATLANTIC AVE.**  
**COMPTON, CA 90221**

**JURISDICTION: LOS ANGELES COUNTY**  
**SITE TYPE: MONOPINE**  
**PROGRAM TYPE: SPRINT CLEARWIRE EVOLUTION**



**LEGAL DESCRIPTION**  
 THE LAND REFERRED TO HEREIN IS SITUATED IN THE STATE OF CALIFORNIA, COUNTY OF LOS ANGELES, DESCRIBED AS FOLLOWS:  
 THE EAST HALF OF LOT 20, BLOCK "B" OF TRACT NO. 6307, AS PER MAP RECORDED IN BOOK 67, PAGES 33 AND 34 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, TOGETHER WITH THAT PORTION OF ATLANTIC AVENUE, ADJOINING SAID LAND, AS VACATED BY AN ABANDONMENT OF SUPERSEDED STATE HIGHWAY WHICH WAS RECORDED ON NOVEMBER 6, 1952, AS INSTRUMENT NO. 3336, IN BOOK 40247, PAGE 418 OF OFFICIAL RECORDS OF SAID COUNTY.

**PROJECT INFORMATION**

COUNTY: LOS ANGELES  
 SITE NAME: DEMOS  
 SITE NUMBER: LA73XC320  
 AUGMENT ID: LA73XC320E15.1  
 SITE ADDRESS: 15629 S. ATLANTIC AVE. AKA: 15629 1/2 S. ATLANTIC AVE. COMPTON, CA 90221

LATITUDE: 33° 53' 26.7036" N (NAD '83)  
 LONGITUDE: 118° 11' 37.0674" W (NAD '83)  
 GROUND ELEVATION: 67.59 AMSL (NAVD '88)

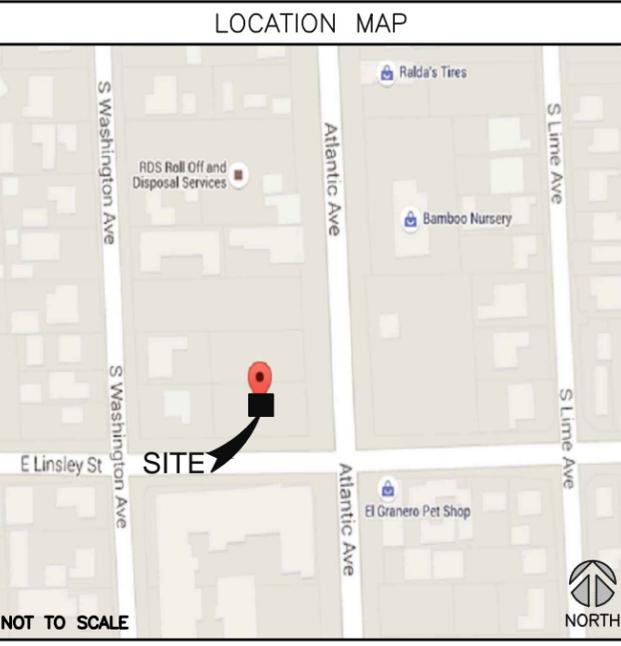
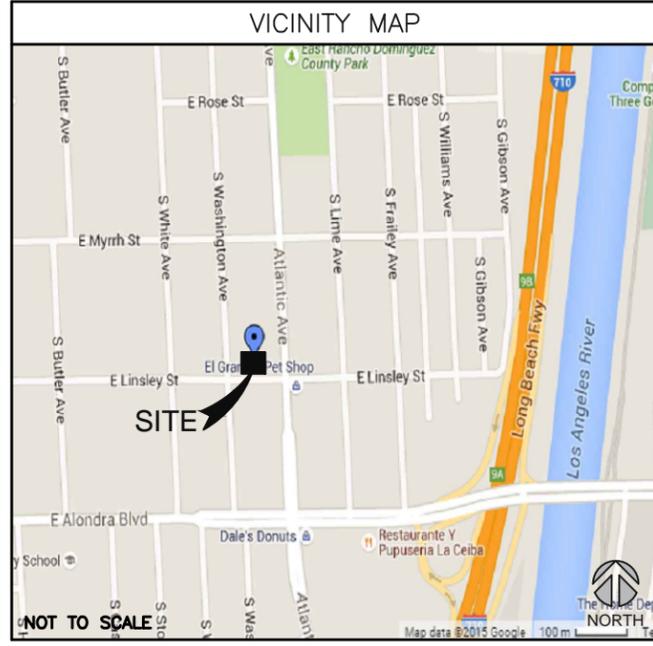
TOWER OWNER: SPRINT  
 GROUND OWNER: DEMOS2 LP

LANDLORD CONTACT: DEMOS2 LP  
 C/O ZVK CORPORATION  
 1901 1ST AVE. SUITE 300  
 SAN DIEGO, CA 92101  
 PETER MELLLOS  
 858-775-4246  
 PMELLOS\_ZVKCORP@HOTMAIL.COM

PROJECT MANAGER: NORMAN MACLEOD  
 MCS TELECOM, LLC  
 28205 BLUEBELL DRIVE  
 LAGUNA NIGUEL, CA 92677  
 TEL: (949) 235-8812  
 NORM@MCS TELECOM.NET

APPLICANT: SAC WIRELESS ON BEHALF OF SPRINT  
 SPRINT PROJECT MANAGER: JOVAN ZISTAKIS  
 SAC WIRELESS ENGINEERING GROUP  
 540 W. MADISON ST. 16TH FLR  
 CHICAGO, ILLINOIS 60661  
 TEL: (847) 466-3492  
 JOVAN.ZISTAKIS@SACW.COM

ASSESSOR'S PARCEL #: 6181-026-015



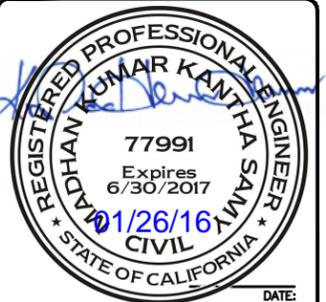
**INDEX OF DRAWINGS**

SHEET	DESCRIPTION	REV
T-1	TITLE SHEET	3
T-2	GENERAL NOTES, LEGEND & ABBREVIATIONS	0
A-1	OVERALL SITE PLAN & ENLARGED SITE PLAN	1
A-2	EXISTING & NEW ANTENNA LAYOUTS, DETAILS & SCHEDULE	0
A-3	EXISTING & NEW EQUIPMENT LAYOUTS & SCHEDULE	1
A-4	EXISTING & NEW WEST ELEVATIONS	2
A-4.1	EXISTING & NEW NORTH ELEVATIONS	2
A-5	EQUIPMENT DETAILS, SPECS & NOTES	0
A-5.1	EQUIPMENT DETAILS & SPECS	1
E-1	ELECTRICAL DETAILS	0
G-1	SCHEMATIC GROUNDING PLANS	0
G-2	GROUNDING DETAILS	0

**REVISIONS**

REV.	DATE	DESCRIPTION	INITIALS
A	05/15/15	90% CD'S	NS
B	06/11/15	95% CD'S	NS
0	07/28/15	FOR CONSTRUCTION	NS
1	01/13/16	CLIENT COMMENTS	NS
2	01/15/16	CLIENT COMMENTS	NS
3	01/26/16	CLIENT COMMENTS	SBA

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



"I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA"

DEMOS  
 LA73XC320E15.1  
 15629 S. ATLANTIC AVE.  
 COMPTON, CA 90221

**PROJECT CONSULTANTS**

PROJECT MANAGEMENT: SAC WIRELESS ENGINE ROOM  
 540 W. MADISON ST. 16TH FLR  
 CHICAGO, ILLINOIS 60661  
 TEL: (312) 895-4977  
 WWW.SACW.COM

ARCHITECT: SERGIO BUSTAMANTE  
 112 SOUTH KYRENE ROAD, SUITE 1  
 CHANDLER, AZ 85226  
 (480) 961-9151

PROFESSIONAL ENGINEER: MADHAN KUMAR K, MS, PE  
 112 SOUTH KYRENE ROAD, SUITE 1  
 CHANDLER, AZ 85226  
 (480) 961-9151

SITE ACQUISITION & ZONING: SAC WIRELESS ENGINE ROOM  
 540 W. MADISON ST. 16TH FLR  
 CHICAGO, ILLINOIS 60661  
 TEL: (312) 895-4977  
 WWW.SACW.COM

SPRINT RF ENGINEER: DEVESH RANGNEKAR

CONSTRUCTION MANAGER: MARK WEAVER  
 MARK.WEAVER@SPRINT.COM  
 949-748-3482

**SCOPE OF WORK**

- INSTALL (3) NEW 2.5GHZ PANEL ANTENNAS
- INSTALL (3) NEW 2.5GHZ RRH'S
- INSTALL (3) NEW HYBRIFLEX CABLES FROM EQUIPMENT CABINET TO NEW ANTENNAS AS REQUIRED
- INSTALL (1) ALU JUNCTION BOX
- INSTALL (1) GPS UNIT
- REMOVE (3) EXISTING CLEARWIRE ANTENNAS
- REMOVE (3) EXISTING CLEARWIRE RRH'S
- REMOVE (1) EXISTING GPS UNIT

**DIRECTIONS**

DIRECTIONS FROM: LAX (LOS ANGELES INTERNATIONAL AIRPORT)

- GET ON I-105 E FROM S SEPULVEDA BLVD
- CONTINUE ON I-105 E. DRIVE TO E ALONDRA BLVD IN COMPTON. TAKE THE EXIT FOR ALONDRA BLVD W FROM I-710 S
- CONTINUE ON E ALONDRA BLVD. DRIVE TO ATLANTIC AVE IN EAST COMPTON
- ARRIVE AT 15629 S. ATLANTIC AVE. COMPTON, CA 90221

**NEW & EXISTING EQUIPMENT SCHEDULE**

	ZONING APPROVED	EXISTING ON SITE	NEW MOD
# OF ANTENNAS	X	3	3
SIZE OF ANTENNAS	X	4'-0"	4'-8"
EQUIPMENT	X	4	1

**SPECIAL NOTES**

- ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT SPRINT CONSTRUCTION INSTALLATION GUIDE.
- EXISTING CONDITIONS WILL BE CHANGED & VERIFIED IN FIELD. IF SIGNIFICANT DEVIATIONS OR DETERIORATION ARE ENCOUNTERED AT THE TIME OF CONSTRUCTION, A REPAIR PERMIT WILL BE OBTAINED & CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & 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.
- THESE DRAWINGS ARE FULL SIZE & SCALEABLE ON 22"x34" SHEET SIZE & ARE NOT REDUCED IN SIZE.
- STATEMENT THAT COMPLIANCE WITH THE ENERGY CODE IS NOT REQUIRED. -SCOPE OF WORK DOES NOT INVOLVE MODIFICATIONS TO EXTERIOR ENVELOPE OF BUILDING, HVAC SYSTEMS OR ELECTRICAL LIGHTING.



**DO NOT SCALE DRAWINGS**

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

**CODE COMPLIANCE**

- 2014 COUNTY OF LOS ANGELES BUILDING CODE (TITLE 26) BASED ON THE 2013 CALIFORNIA BUILDING CODE AND THE 2012 INTERNATIONAL BUILDING CODE
- 2014 COUNTY OF LOS ANGELES ELECTRICAL CODE (TITLE 27) BASED ON THE 2013 CALIFORNIA ELECTRICAL CODE AND THE 2011 NATIONAL ELECTRICAL CODE
- 2014 COUNTY OF LOS ANGELES PLUMBING CODE (TITLE 28) BASED ON THE 2013 CALIFORNIA PLUMBING CODE AND THE 2012 UNIFORM PLUMBING CODE
- 2014 COUNTY OF LOS ANGELES MECHANICAL CODE (TITLE 29) BASED ON THE 2013 CALIFORNIA MECHANICAL CODE AND THE 2012 UNIFORM MECHANICAL CODE
- 2014 COUNTY OF LOS ANGELES RESIDENTIAL CODE (TITLE 30) BASED ON THE 2013 CALIFORNIA RESIDENTIAL CODE AND THE 2012 INTERNATIONAL RESIDENTIAL CODE
- 2014 COUNTY OF LOS ANGELES GREEN BUILDING STANDARDS CODE (TITLE 31) BASED ON THE 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE

**APPROVALS**

DISCIPLINE:	SIGNATURE	DATE
LANDLORD:		

SHEET TITLE  
**TITLE SHEET**

SHEET NUMBER  
**T-1**

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

1. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE PORTABLE WATER OR SEWER SERVICE.
2. THIS FACILITY IS EXEMPT FROM HANDICAP REQUIREMENTS PER 2013 CBC SECTION 1105B.3.4 EXCEPTION #1. THIS FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
3. CONTRACTOR WILL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SAFETY EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY TO COMPLETE ALL THE WORK OUTLINED IN ALL DRAWINGS, SPECIFICATIONS, SCOPES OF WORK, BILL OF MATERIALS, AND ANY OTHER DOCUMENT ISSUED BY SPRINT.
4. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND NATIONAL CODES, LAWS, ORDINANCES, REGULATIONS, SAFETY REGULATIONS, ALL OSHA REGULATIONS, ALL PUBLIC AND MUNICIPAL AUTHORITIES AND ANY UTILITY COMPANIES REGULATIONS AND DIRECTIVES.
5. ANY CONTRACTOR SUBMITTING BIDS ON ANY OF THE WORK IS REQUIRED TO VISIT EACH SITE PRIOR TO BID SUBMITTAL AND FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS AND UNDERSTAND THE SCOPE OF WORK INTENDED FOR THE PROJECT. THIS WILL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
6. THE SUCCESSFUL CONTRACTOR SHALL PROVIDE A SCHEDULE LIST OF ALL SUBCONTRACTORS WITH ADDRESSES, CELL PHONE NUMBERS AND HOME PHONE NUMBERS. VERIFICATION OF INSURANCE, ANY AND ALL PERTINENT LICENSES AND AN ACCURATE SCHEDULE FOR THE PROJECT PRIOR TO THE ISSUANCE OF A NTP.
7. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK AT THE SITE PRIOR TO A NOTICE TO PROCEED (NTP) BEING ISSUED AND A PRE-CONSTRUCTION MEETING AT THE SITE HAVING TAKEN PLACE.
8. ALL WORK AND MATERIALS FURNISHED BY THE CONTRACTOR SHALL HAVE A WRITTEN ONE-YEAR WARRANTY STARTING AT THE ACCEPTANCE OF THE SITE FROM THE SITE OWNER.
9. ALL MATERIALS SUPPLIED BY THE OWNER, OWNER'S REPRESENTATIVE, AND THE CONTRACTOR, SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES, LAWS, ORDINANCES, REGULATIONS AND PER MANUFACTURER'S RECOMMENDATIONS.
10. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT.
11. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
12. THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION, INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT.
13. THE CONTRACTOR SHALL HAVE A DESIGNATED MANAGER ON SITE AT ALL TIMES THAT ANY WORK IS BEING PERFORMED. A SUBCONTRACTOR IS NOT DEFINED AS A DESIGNATED MANAGER.
14. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/HIRED DRAWINGS TO THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
16. ALL SITES SHALL BE KEPT CLEAN AND FREE OF DEBRIS ON A DAILY BASIS. ALL TRASH AND MATERIALS NO LONGER BEING USED AT THE SITE MUST BE REMOVED AND PROPERLY DISPOSED OF ON A DAILY BASIS.
17. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
18. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST C.B.C. AND ALL OTHER GOVERNING CODES, INCLUDING THE CALIFORNIA ADMINISTRATIVE CODES TITLE 8, 19, AND 24. THE MOST RESTRICTIVE CODE SHALL GOVERN.
19. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
20. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
21. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.
22. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
23. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
24. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL INSPECTIONS AND TESTING REQUIRED FOR EACH PROJECT. A 24-HOUR NOTIFICATION TO SPRINT IS REQUIRED FOR ALL INSPECTIONS AND TESTING. A FIELD COPY OF ALL INSPECTIONS AND TESTING REPORTS AS WELL AS TRUCK TICKETS MUST BE SUBMITTED TO THE OWNERS REPRESENTATIVE WITHIN 24-HOURS OF THE INSPECTION OR TEST.
25. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL U.L. APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
26. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
27. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
28. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
29. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
30. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
31. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.
32. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2013 CFC SECTION 1401 AND ALL GOVERNING CODES.
33. ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.(2013 CFC SECTION 505.1)
34. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION.(2013 CFC SECTION 807-1.2)
35. PORTABLE FIRE EXTINGUISHERS: AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10-B-C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR.(2013 CFC SECTION 906.1.1 & 7 AND SECTION 906.3.1)
36. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL MATERIALS ISSUED TO THEM AND REPORT ANY SHORTAGES AND DISCREPANCIES TO VENDOR(S) AT THE TIME OF ISSUANCE. THE CONTRACTOR SHALL STORE THESE MATERIALS PROPERLY, ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND IN A MANNER THAT WILL NOT VOID THE WARRANTY ON ANY ITEM. IF ANY ITEM IS DAMAGED OR UNUSABLE DUE TO IMPROPER HANDLING AND STORAGE THE CONTRACTOR WILL REPLACE IT AT THEIR EXPENSE.
37. THE CONTRACTOR IS RESPONSIBLE TO FURNISH PROPER FACILITIES FOR THE WORKERS ON EACH PROJECT FOR THE DURATION OF THAT PROJECT.
38. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE PRESENT CONDITION OF ANY EXISTING BUILDINGS, LANDSCAPING, FENCING, EQUIPMENT, WALKS, DRIVE, AND ATTACHMENTS. IF ANY DAMAGE SHOULD OCCUR, THE CONTRACTOR IS RESPONSIBLE TO RESTORE THE DAMAGE TO A BETTER OR NEW CONDITION.
39. THE SPRINT REPRESENTATIVE RESERVES THE RIGHT TO RELOCATE ANY EQUIPMENT WITHIN 10 FT. OF THE LOCATION SPECIFIED ON THESE DRAWINGS PRIOR TO INSTALLATION BY THE CONTRACTOR.
40. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE SPRINT REPRESENTATIVE.
41. CONTRACTOR IS RESPONSIBLE FOR FIELD MEASUREMENTS TO CONFIRM LENGTHS OF CABLE TRAYS, AND ELECTRICAL LINES.
42. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN AND PAY FOR ALL ELECTRICAL PERMITS AND INSPECTIONS REQUIRED FOR COMPLETION OF WORK AND ACCEPTANCE. PROVIDE CERTIFICATES TO THE CONSTRUCTION MANAGER VERIFYING THAT THE WORK CONFORMS TO THE REQUIREMENTS OF ALL CODES AND AUTHORITIES HAVING JURISDICTION.
43. NO DEVIATIONS FROM DESIGN SHOWN ON THESE DRAWINGS IS ALLOWED, WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER OF RECORD. FAILURE TO OBSERVE THIS RULE MAY RESULT IN THE CONTRACTOR CORRECTING THE INSTALLATION AT THEIR EXPENSE.
44. VERIFICATION THAT THE EXISTING ROOFTOP CAN SUPPORT THE PROPOSED ANTENNA LOADING IS TO BE DONE BY OTHERS.
45. PROVIDE SUPPORT FOR THE ANTENNA CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS. ANTENNA CABLES ARE TO BE SUPPORTED AND RESTRAINED AT THE CENTERS SUITABLE TO THE MANUFACTURER'S REQUIREMENTS.
46. SAC WIRELESS, OR ANY REGISTERED PROFESSIONAL ENGINEER EMPLOYED OR CONTRACTED BY SAC WIRELESS, DOES NOT CERTIFY THE STRUCTURAL INTEGRITY OF THE CONSTRUCTION CONTAINED HEREIN UNLESS SAC WIRELESS HAS BEEN CONTRACTED TO PERFORM A STRUCTURAL ANALYSIS AND THEREBY ADDITIONAL DOCUMENTATION IS REQUIRED.
47. THE CONTRACTOR SHALL GRUB THE SITE AREA AND ANY ACCESS ROAD CLEARING AND REMOVE A MINIMUM OF 6" TO ACHIEVE A STABLE SUB-BASE TO ACCEPT FILL OR OTHER MATERIAL SPECIFIED FOR THE SITE AND ACCESS ROAD. THE GRUBBING SHALL BE REMOVED FROM THE SITE AND NOT REUSED IN ANY PART OF THIS PROJECT.
48. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO CALL THE LOCAL LOCATING AUTHORITIES TO VERIFY THE LOCATION OF ANY UNDERGROUND UTILITIES THAT EXIST WITHIN THE ENTIRE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RELOCATION (AS NECESSARY) OF THE UNDERGROUND UTILITIES OR LINES. THE CONTRACTOR SHALL PLACE THESE ITEMS ON THE AS BUILT DRAWINGS.
49. ALL ROADWORK AND MATERIALS SHALL CONFORM TO ALL STATE AND LOCAL CODES AND IN ACCORDANCE WITH THE DEPARTMENT OF HIGHWAY AND PUBLIC TRANSPORTATION STANDARD SPECIFICATIONS.
50. THE ACCESS ROAD, IF REQUIRED, WILL BE CONSTRUCTED FIRST BEFORE ANY OTHER WORK ON THE SITE IS PERMITTED. BRING THE ROAD TO SUB BASE COURSE TO ALLOW CONSTRUCTION TRAFFIC TO USE THE ROAD FOR THE PROJECT AND COMPLETE THE ROAD AFTER CONSTRUCTION OF THE SITE IS SUBSTANTIALLY COMPLETE.
51. ALL SITES AND ACCESS ROADS ARE TO BE CONSTRUCTED TO HAVE A POSITIVE DRAINAGE FLOW AWAY FROM THE SITE AND EQUIPMENT. ANY DISCREPANCIES IN THE DRAWINGS OR SPECIFICATIONS MUST BE BROUGHT TO THE ATTENTION OF SPRINT IMMEDIATELY.
52. ALL ACCESS ROAD AND SITE AREAS WILL HAVE AN UNDERLAYMENT OF MIRAFI-500X, OR EQUAL.
53. A SOIL STERILIZER SHALL BE APPLIED TO ALL GRAVEL SURFACES AND BE EPA REGISTERED LIQUID COMPOSITION AND OF PRE-EMERGENCE DESIGN. THE PRODUCT LABEL AND INFORMATION WILL BE GIVEN TO SPRINT.
54. SUB-BASE COURSE OF GRANULAR "B" MATERIAL SHALL CONSIST OF WELL GRADED SAND AND GRAVEL WITH NOT MORE THAN 8% PASSING THROUGH #200 SIEVE WITH NOT LESS THAN 35% RETAINED ON A #4 SIEVE. CONTRACTOR TO SUPPLY GRADUATION FOR REVIEW PRIOR TO PLACEMENT.
55. BASE COURSE OF GRANULAR "A" MATERIAL SHALL CONSIST OF 3/4" CRUSHED SAND AND GRAVEL (ROAD MULCH) WITH NOT MORE THAN 8% PASSING THROUGH #200 SIEVE. CONTRACTOR TO SUPPLY GRADUATION FOR REVIEW PRIOR TO PLACEMENT.
56. ALL FILL DIRT SHALL BE CLEAN AND NATURAL. FREE FROM AN DELETERIOUS MATERIALS, ROOTS, ICE, SNOW AND RUBBISH. A COPY OF ALL DELIVERY TICKETS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE WITHIN 24-HOURS FROM DELIVERY.
57. ALL TRENCHES SHALL HAVE A SIX-INCH BASE OF CLEAN SAND FILL TO ACCEPT THE CONDUITS AND THEN ANOTHER 12" OF CLEAN SAND FILL ON TOP OF THE CONDUITS. THE REMAINDER OF THE TRENCH SHALL HAVE A CLEAN COMPACTABLE FILL PLACED IN MAXIMUM LIFTS OF 8" AND MECHANICALLY COMPACTED TO A DENSITY OF 98% OF STANDARD PROCTOR MAXIMUM DENSITY.
58. METALLIC WARNING TAPE SHALL BE PLACED AT 12" BELOW FINISHED GRADE ALONG THE ENTIRE TRENCH.
59. ALL COMPACTION OF SITE AREAS SHALL BE ACCOMPLISHED BY MECHANICAL MEANS. LARGER AREAS SHALL BE COMPACTED BY A SHEEP'S FOOT VIBRATORY ROLLER WEIGHING AT LEAST 5 TONS. SMALLER AREAS SHALL BE COMPACTED BY A POWER DRIVEN HAND HELD TAMPER. ALL COMPACTED AREAS SHALL BE COMPACTED TO WITHIN 95% OF STANDARD PROCTOR MAXIMUM DENSITY AND TESTED BY AN INDEPENDENT LABORATORY. THE OWNER'S REPRESENTATIVE WILL PROVIDE THE CONTRACTOR WITH THE NAME AND NUMBER OF THE LABORATORY. BUT IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE TESTING. ANY SCHEDULING FOR A PROCTOR WILL BE THE CONTRACTOR'S RESPONSIBILITY AND MUST BE DONE IN A TIMELY FASHION TO ASSURE THE PROJECT WILL NOT BE DELAYED.
60. FINISH GRADE, INCLUDING TOP SURFACE COURSE SHALL EXTEND 12" BEYOND THE SITE FENCE AND SHALL COVER THE AREA AS INDICATED.
61. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENT AND CONTROL OF EROSION ON SITE. ANY DAMAGE TO STRUCTURES OR WORK ON SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS WILL BE AT THE CONTRACTORS EXPENSE.
62. THE CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ALL DAMAGE TO THE SITE SUBSEQUENT TO THE INSTALLATION OF THE POWER AND TELCO LINES.

(A)	FUTURE	FLR.	FLOOR	RAD.(R)	RADIUS
A.A.	ANCHOR BOLT	FDN.	FOUNDATION	REF.	REFERENCE
ABV.	ABOVE	F.O.C.	FACE OF CONCRETE	REINF.	REINFORCEMENT(ING)
ACCA	ANTENNA CABLE COVER ASSEMBLY	F.O.M.	FACE OF MASONRY	REQ'D/	REQUIRED
ADD'L	ADDITIONAL	F.O.S.	FACE OF STUD	RG.	RIGID GALVANIZED STEEL
A.F.F.	ABOVE FINISHED FLOOR	F.O.W.	FACE OF WALL	RU	RELAY TO MONITOR GENERATOR POWER
A.F.G.	ABOVE FINISHED GRADE	F.P.	FINISH SURFACE		RELAY TO MONITOR UTILITY POWER
ALUM.	ALUMINUM	FT.( ' )	FOOT (FEET)		SCHEDULE
ALT.	ALTERNATE	FTG.	FOOTING		SHEET
ANT.	ANTENNA	GA.	GROWTH (CABINET)		SCH.
APPRX.	APPROXIMATE(LY)	GEN	GENERATOR		SHT.
ARCH.	ARCHITECT(URAL)	GI.	GALVANIZE(D)		SIM.
AWG.	AMERICAN WIRE GAUGE	G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER		SPEC.
B.LDG.	BUILDING	GPS	GLOBAL POSITIONING SYSTEM		SQ.
BLK.	BLOCK	GRND.	GROUND		S.A.
BLKG.	BLOCKING	HDR.	HEADER		STD.
BM.	BOUNDARY NAILING	HGR.	HANGER		STL
B.N.	BARE TINNED COPPER WIRE	HT.	HEIGHT		STRUC.
BTCW.	BASE TRANSCEIVER STATION	ICGB.	ISOLATED COPPER GROUND BUS		THK.
BTS	BOTTOM OF FOOTING	IN.( ' )	INCH(ES)		TEMP.
B.O.F.	BACK-UP CABINET	INT.	INTERIOR		THICK(NESS)
B/U	CONDUIT	IMC	INTERMEDIATE METAL CONDUIT		THKA.
CAB.	CABINET	LB.(#)	POUND(S)		T.O.A.
CANT.	CANTILEVER(ED)	L.B.	LAG BOLTS		T.O.C.
C.I.P.	CAST IN PLACE	L.F.	LINEAR FEET (FOOT)		T.O.F.
CLG.	CEILING	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT		T.O.P.
CLR.	CLEAR	L.	LONG(TUDINAL)		T.O.S.
COL.	COLUMN	MAS.	MASONRY		T.O.W.
CONC.	CONCRETE	MAX.	MAXIMUM		TYP.
CONN.	CONNECTION(OR)	M.B.	MACHINE BOLT		U.G.
CONSTR.	CONSTRUCTION	MCM	MILLION CIRCULAR MILLS		U.L.
CONT.	CONTINUOUS	MECH.	MECHANICAL		UN.L.O.
D	DOUBLE	MFR.	MANUFACTURER		V.I.F.
DBL	DEPARTMENT	MI	MECHANICAL INTERLOCK		W
DEPT.	DOUGLAS FIR	MIN.	MINIMUM		w/
D.F.	DIAMETER	MISC.	MISCELLANEOUS		WD.
DIA.	DIAGONAL	MTL.	METAL		W.P.
DIAG.	DIMENSION	(N)	NEW		WT.
DIM.	DRAWING(S)	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION		C
DWG.	DOWEL(S)	NL	NIGHT LIGHT - FIXTURE TO BE UNSWITCHED		P
DWL.	EACH				
EA.	EQUIPMENT GROUND	NO.(#)	NUMBER		
EG	ELEVATION	N.T.S.	NOT TO SCALE		
EL.	ELECTRICAL	O.C.	ON CENTER		
ELEC.	ELEVATOR	OPNG.	OPENING		
ELEV.	ELECTRICAL METALLIC TUBING	P/C	PRECAST CONCRETE		
EMT.	EDGE NAIL	PCS	PERSONAL COMMUNICATION SERVICES		
E.N.	ENGINEER	PFB	PROVISION FOR FUTURE BREAKER		
ENG.	EQUAL	PLY.	PLYWOOD		
EQ.	EXPANSION	PPC	POWER PROTECTION CABINET		
EXP.	EXISTING	PRC	PRIMARY RADIO CABINET		
EXST.(E)	EXTERIOR	P.S.F.	POUNDS PER SQUARE FOOT		
EXT.	FABRICATION(OR)	P.S.I.	POUNDS PER SQUARE INCH		
FAB.	FIRE ALARM CONTROL PANEL	P.T.	PRESSURE TREATED		
FACP	FINISH FLOOR	PVC	POLYVINYL CHLORIDE CONDUIT		
F.F.	FINISH GRADE	PWR.	POWER (CABINET)		
F.G.	FINISH GRADE	QTY.	QUANTITY		
FIN.	FINISH(ED)	(R)	RELOCATE		

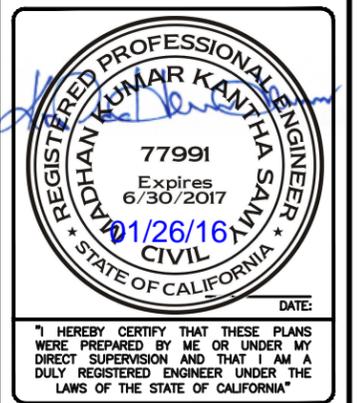
ABBREVIATIONS

	NEW ANTENNA		PLYWOOD		F FIBER CONDUIT
	EXISTING ANTENNA		SAND		T TELEPHONE CONDUIT
	GROUND ROD		WOOD CONT.		E ELECTRICAL CONDUIT (POWER)
	GROUND BUS BAR		WOOD BLOCKING		A COAXIAL CABLE
	MECHANICAL GRND. CONN.		STEEL		OH-E/T OVERHEAD SERVICE CONDUCTORS
	CADWELD		CENTERLINE		X-X-X CHAIN LINK FENCING
	GROUND ACCESS WELL		PROPERTY/LEASE LINE		WOOD FENCING
	ELECTRIC BOX		MATCH LINE		T/E TELCO/ELECTRICAL CONDUCTORS
	TELEPHONE BOX		WORK POINT		F/E FIBER/ELECTRICAL CONDUITS
	LIGHT POLE		GROUND CONDUCTOR		A CAT5E/WAVEGUIDE
	FND. MONUMENT		ELEVATION REFERENCE		
	SPOT ELEVATION		SECTION REFERENCE		
	SET POINT		GROUT OR PLASTER		
	REVISION		(E) BRICK		
	GRID REFERENCE		(E) MASONRY		
	DETAIL REFERENCE		CONCRETE		
			EARTH		
			GRAVEL		



REVISIONS			
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3	01/26/16	CLIENT COMMENTS	SBA

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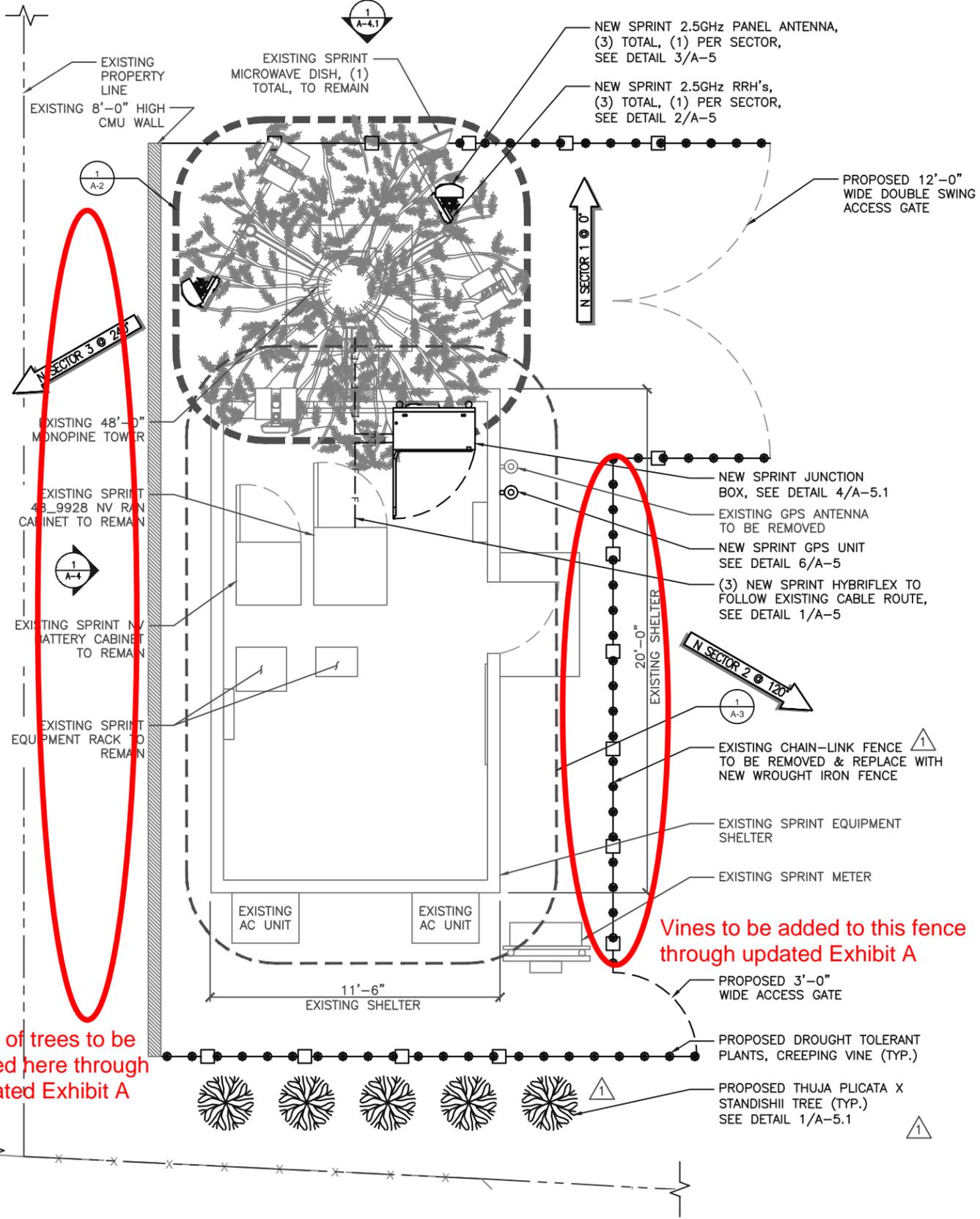
SHEET TITLE  
**GENERAL NOTES,  
LEGEND &  
ABBREVIATIONS**

SHEET NUMBER  
**T-2**

GENERAL NOTES SCALE N.T.S. 2

LEGEND SCALE N.T.S. 1

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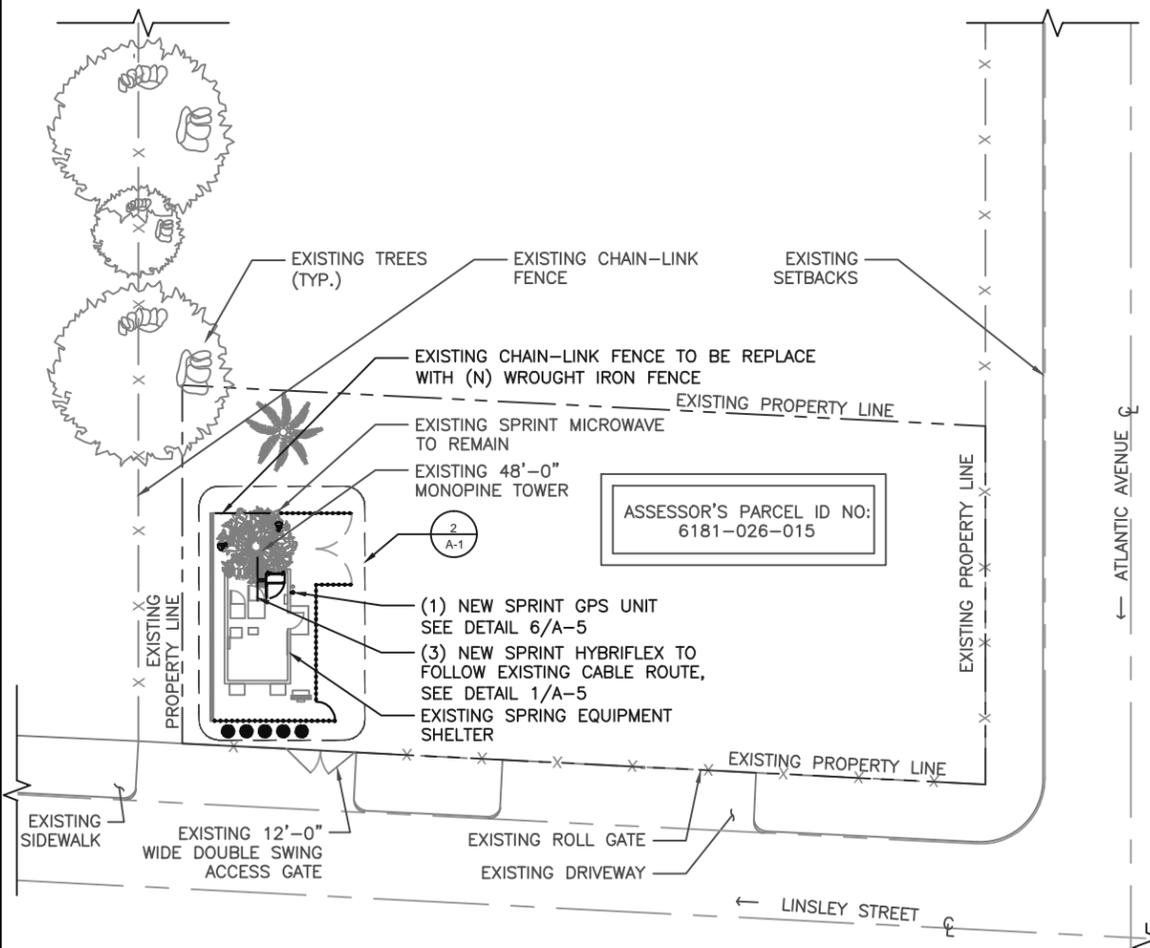
Row of trees to be added here through updated Exhibit A

Vines to be added to this fence through updated Exhibit A



ENLARGED SITE PLAN

SCALE: 3/8"=1'-0" (22x34)  
(OR) 3/16"=1'-0" (11x17)



OVERALL SITE PLAN

SCALE: 1/16"=1'-0" (22x34)  
(OR) 1/32"=1'-0" (11x17)

**Sprint**  
330 COMMERCE  
IRVINE, CA. 92602

**SAC** WIRELESS  
A NOKIA COMPANY  
540 W. MADISON ST.  
16TH FLOOR  
CHICAGO, IL 60661  
www.sacw.com  
312.895.4977

**LETS**  
LETS America, Inc.  
112 S. KYRENE RD. STE. 1  
CHANDLER, AZ 85226  
ARIZONA: 480-961-9151  
LETS PROJ. # LETS-EVO-055

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NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

REGISTERED PROFESSIONAL ENGINEER  
**MADHAN KUMAR KANTHA SAMI**  
77991  
Expires 6/30/2017  
01/26/16  
CIVIL  
STATE OF CALIFORNIA

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA

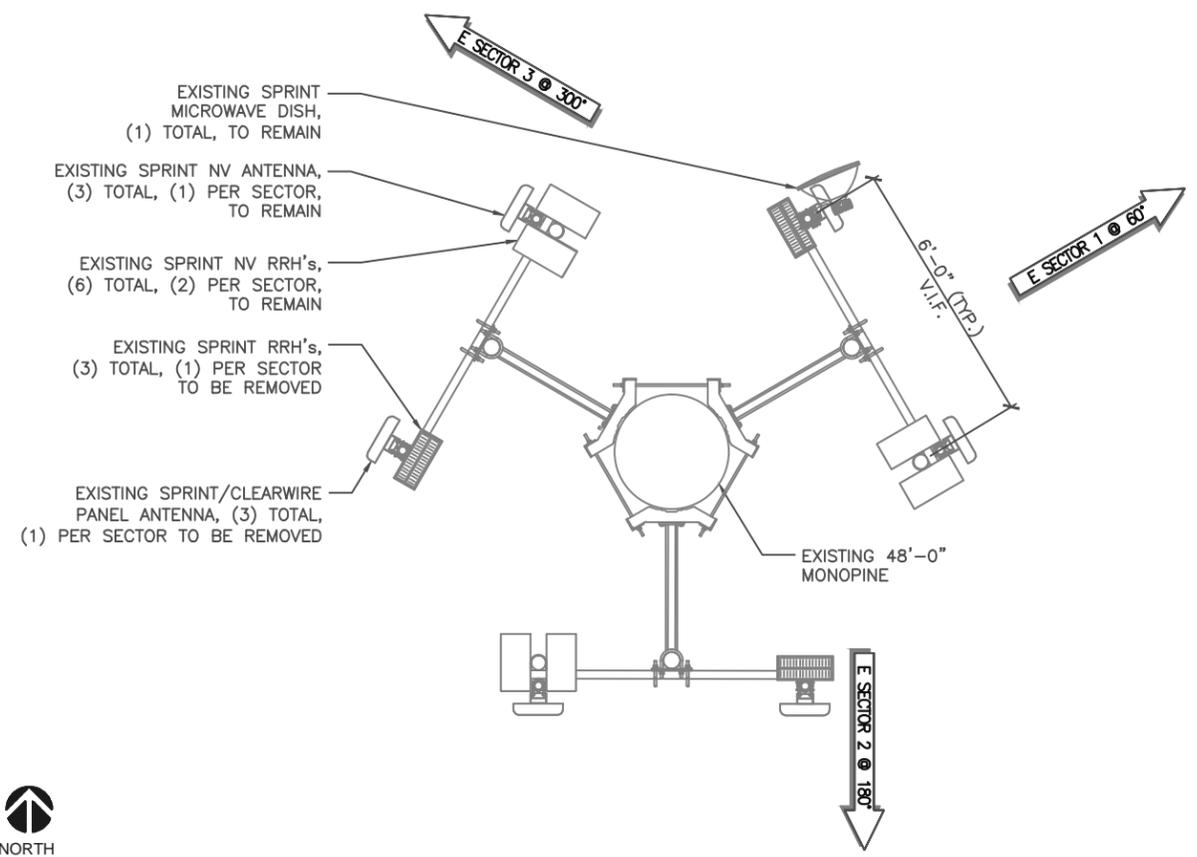
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COMPTON, CA 90221

SHEET TITLE  
**OVERALL SITE PLAN & ENLARGED SITE PLAN**

SHEET NUMBER  
**A-1**

NOTE:  
CONTRACTOR TO REFER TO "FINAL" RFDS DATA SHEET BEFORE CONSTRUCTION

NEW ANTENNA & EQUIPMENT CONFIGURATION AND SCHEDULE											
	SECTOR 1	AZIMUTH	RAD CTR.	ANTENNAS	MT	RET	RRH's	TRANS. LINE	CABLE LENGTH ±20%	AISG CABLE	JUMPERS
NEW	2.5GHZ	0°	45'-0"	(1) RFS APXVTM14-ALU-I20	0	0	(1) ALU 2.5GHZ TD-RRH 8X20-25	(1) ALU HYBRIFLEX CABLE	±70	(1) COMMSCOPE ATCB-B01-006 8' MAX	(10) ALU COAX 15' MAX
EXISTING	MW	300°	49'-0"	(1) ANDREW VHLP2	N/A	N/A	N/A	POWER/FIBER	±54	N/A	N/A
EXISTING	NV	60°	45'-0"	KATHREIN QUAD	N/A	N/A	(2) 1900 MHz	POWER/FIBER	±54	N/A	N/A
	SECTOR 2	AZIMUTH	RAD CTR.	ANTENNAS	MT	RET	RRH's	TRANS. LINE	CABLE LENGTH ±20%	AISG CABLE	JUMPERS
NEW	2.5GHZ	120°	45'-0"	(1) RFS APXVTM14-ALU-I20	0	0	(1) ALU 2.5GHZ TD-RRH 8X20-25	(1) ALU HYBRIFLEX CABLE	±70	(1) COMMSCOPE ATCB-B01-006 8' MAX	(10) ALU COAX 15' MAX
EXISTING	NV	180°	45'-0"	KATHREIN QUAD	N/A	N/A	(2) 1900 MHz	POWER/FIBER	±54	N/A	N/A
	SECTOR 3	AZIMUTH	RAD CTR.	ANTENNAS	MT	RET	RRH's	TRANS. LINE	CABLE LENGTH ±20%	AISG CABLE	JUMPERS
NEW	2.5GHZ	240°	45'-0"	(1) RFS APXVTM14-ALU-I20	0	0	(1) ALU 2.5GHZ TD-RRH 8X20-25	(1) ALU HYBRIFLEX CABLE	±70	(1) COMMSCOPE ATCB-B01-006 8' MAX	(10) ALU COAX 15' MAX
EXISTING	NV	300°	45'-0"	KATHREIN QUAD	N/A	N/A	(2) 1900 MHz	POWER/FIBER	±54	N/A	N/A



NEW ANTENNA SCHEDULE

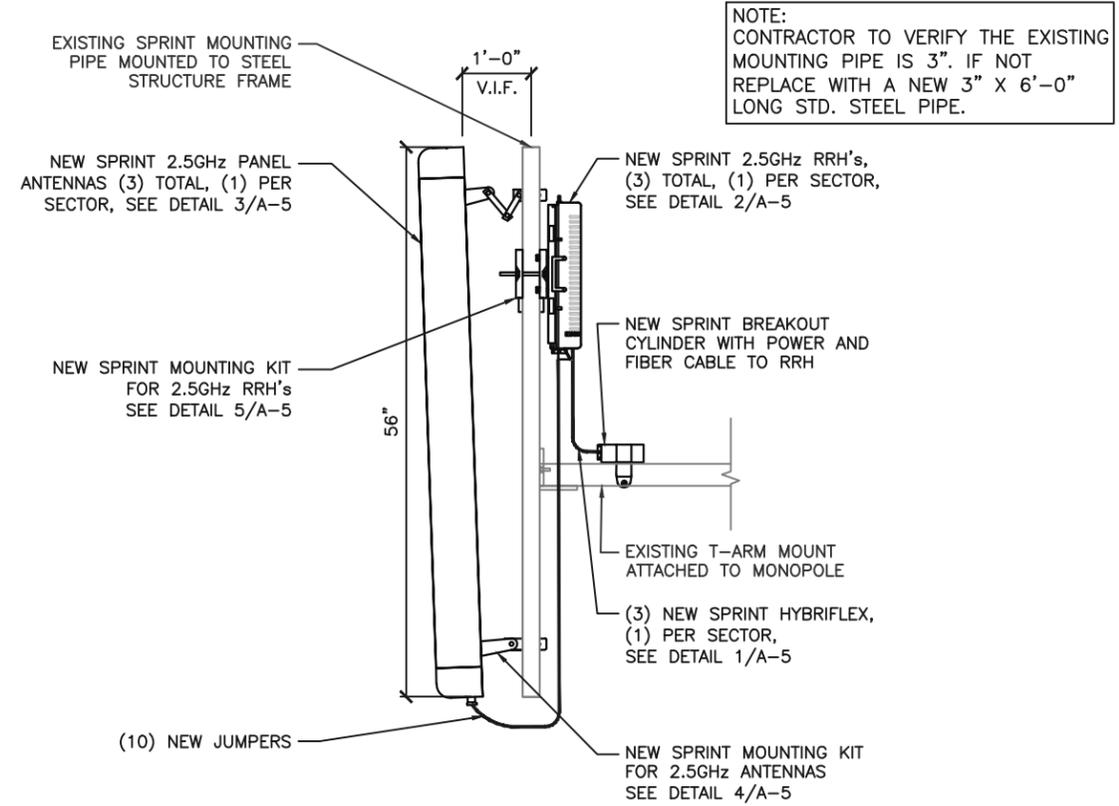
SCALE  
N.T.S. 4

EXISTING ANTENNA LAYOUT

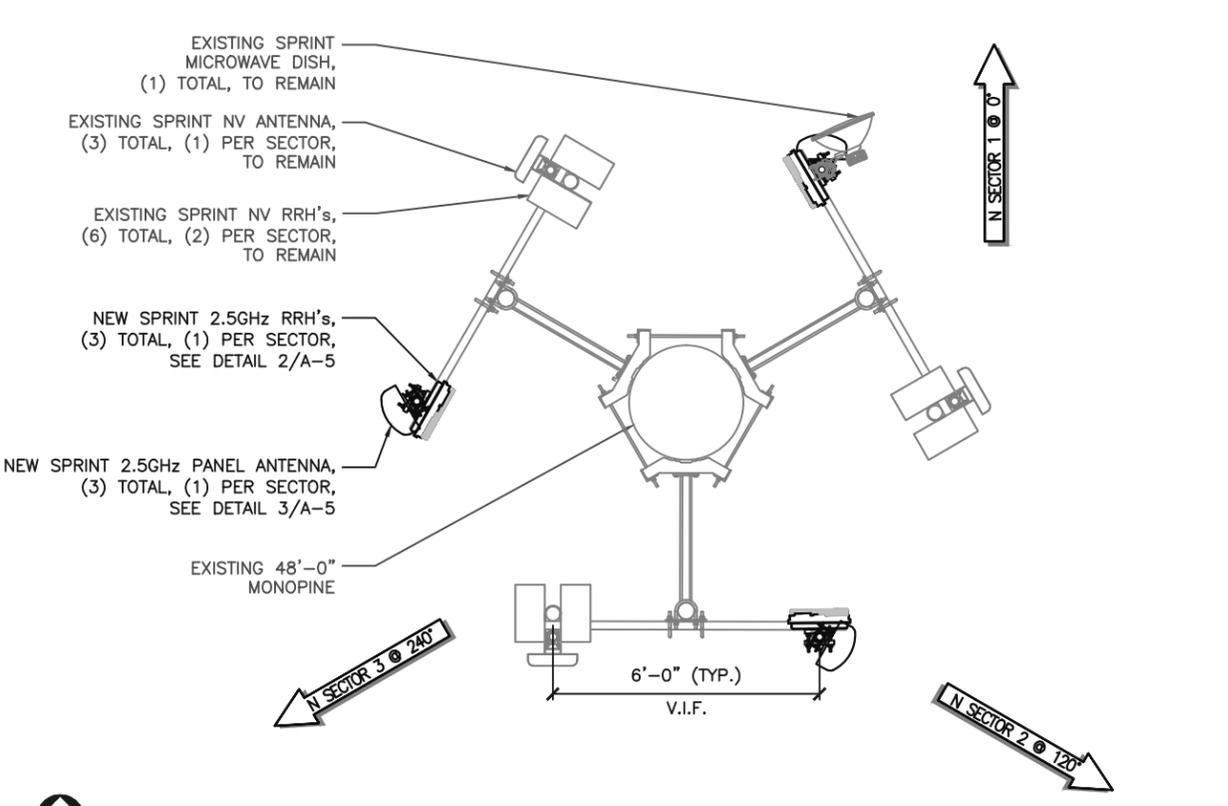
SCALE: 1/2"=1'-0" (22x34)  
(OR) 1/4"=1'-0" (11x17) 2

REVISIONS			
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2	01/15/16	CLIENT COMMENTS	NS
3	01/26/16	CLIENT COMMENTS	SBA

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NOTE:  
CONTRACTOR TO VERIFY THE EXISTING MOUNTING PIPE IS 3". IF NOT REPLACE WITH A NEW 3" X 6'-0" LONG STD. STEEL PIPE.



NEW ANTENNA MOUNTING DETAIL

SCALE  
N.T.S. 3

NEW ANTENNA LAYOUT

SCALE: 1/2"=1'-0" (22x34)  
(OR) 1/4"=1'-0" (11x17) 1

REGISTERED PROFESSIONAL ENGINEER  
MADHAN KUMAR KANTHA SAMY  
77991  
Expires 6/30/2017  
01/26/16  
CIVIL  
STATE OF CALIFORNIA  
DATE: \_\_\_\_\_

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COMPTON, CA 90221

SHEET TITLE  
EXISTING & NEW  
ANTENNA  
LAYOUTS, DETAILS  
& SCHEDULE

SHEET NUMBER  
A-2

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330 COMMERCE  
IRVINE, CA. 92602

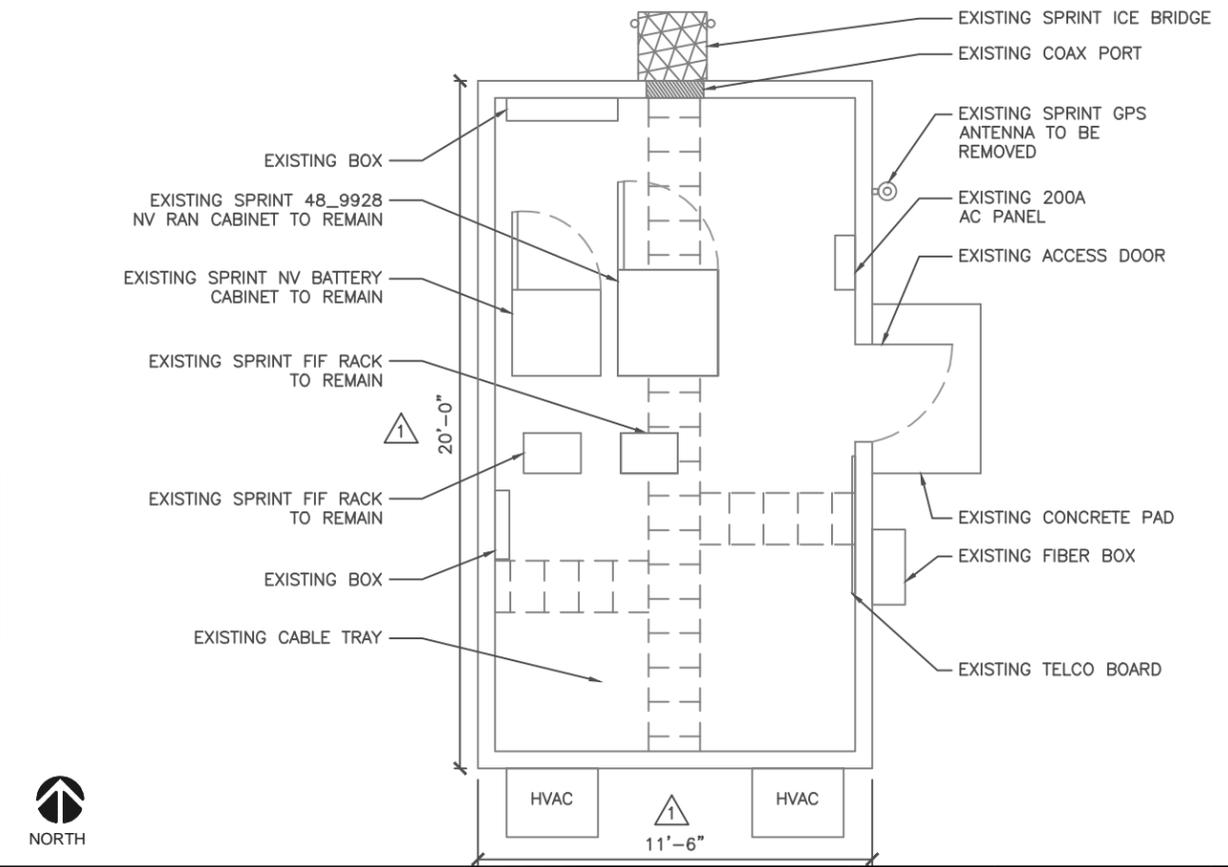
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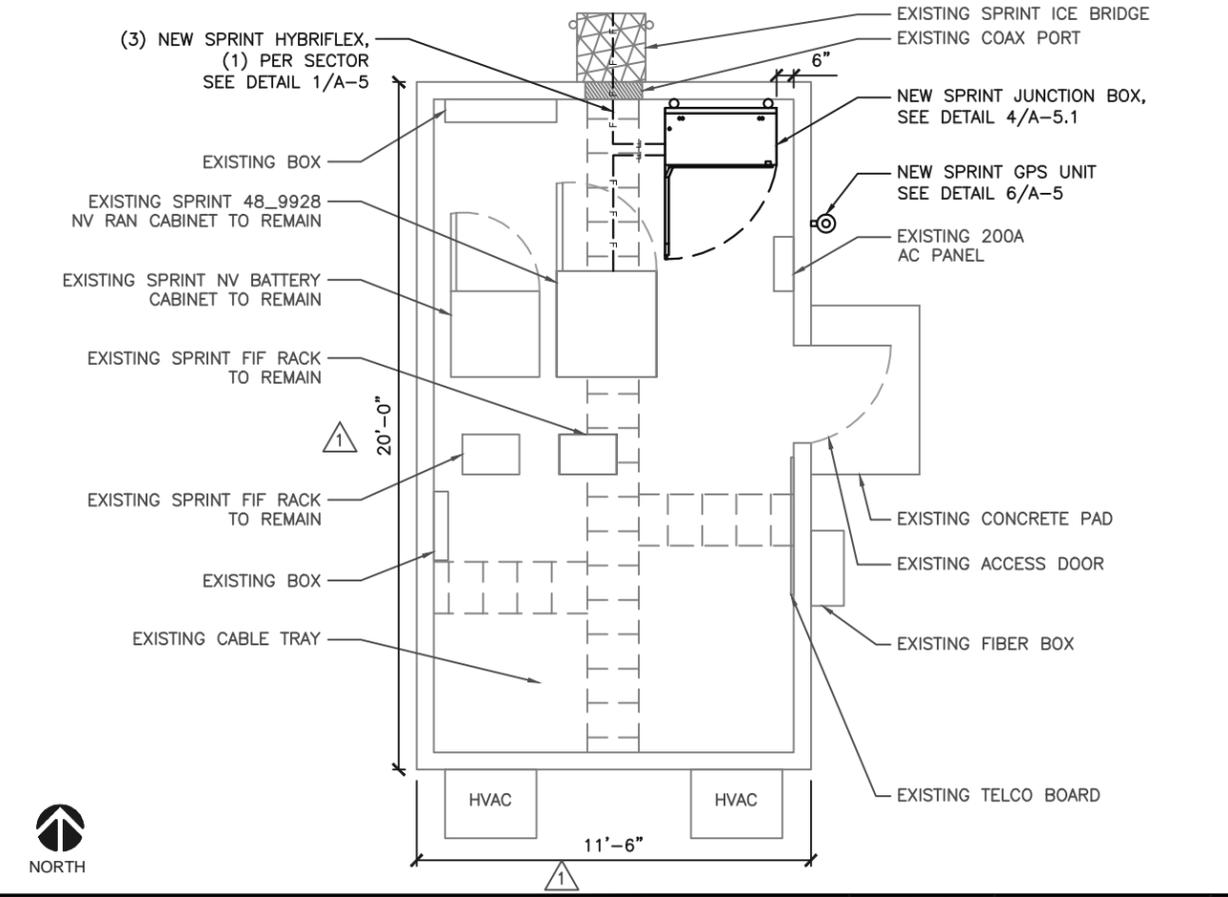
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**NOTE:**  
CONTRACTOR TO SEE "FINAL" RFDS FOR BUILD.

NEW EQUIPMENT SCHEDULE				
MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT
NEW JUNCTION BOX	39"	39"	18"	75 LB



EXISTING EQUIPMENT LAYOUT SCALE: 3/8"=1'-0" (22x34) (OR) 3/16"=1'-0" (11x17) 2



NEW EQUIPMENT LAYOUT SCALE: 3/8"=1'-0" (22x34) (OR) 3/16"=1'-0" (11x17) 1

NEW EQUIPMENT SCHEDULE SCALE: N.T.S. 4

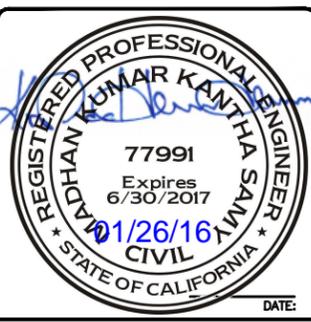


NOT USED SCALE: N.T.S. 3



REVISIONS			
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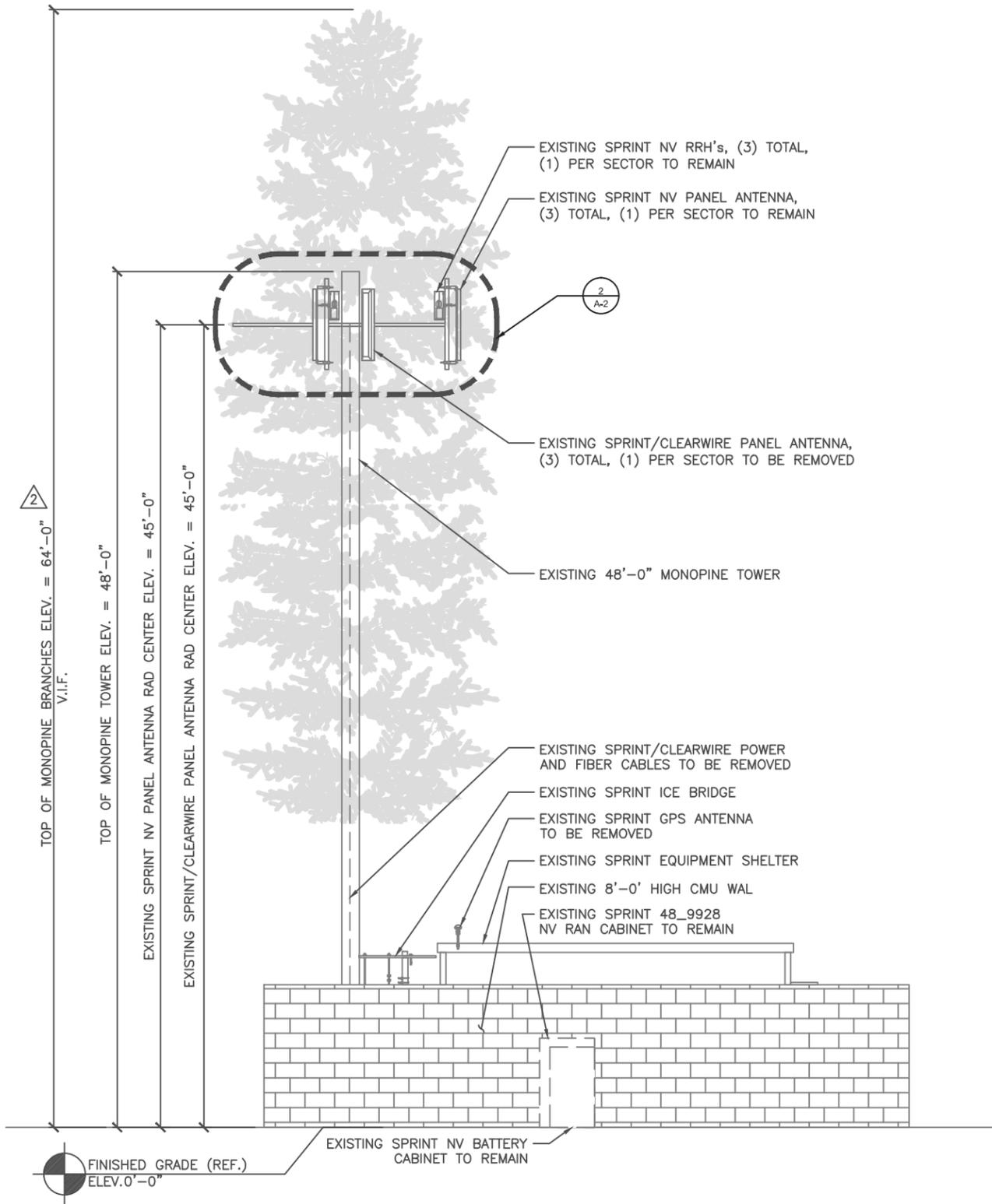
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15629 S. ATLANTIC AVE.  
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SHEET TITLE  
**EXISTING & NEW  
EQUIPMENT  
LAYOUTS &  
SCHEDULE**

SHEET NUMBER  
**A-3**

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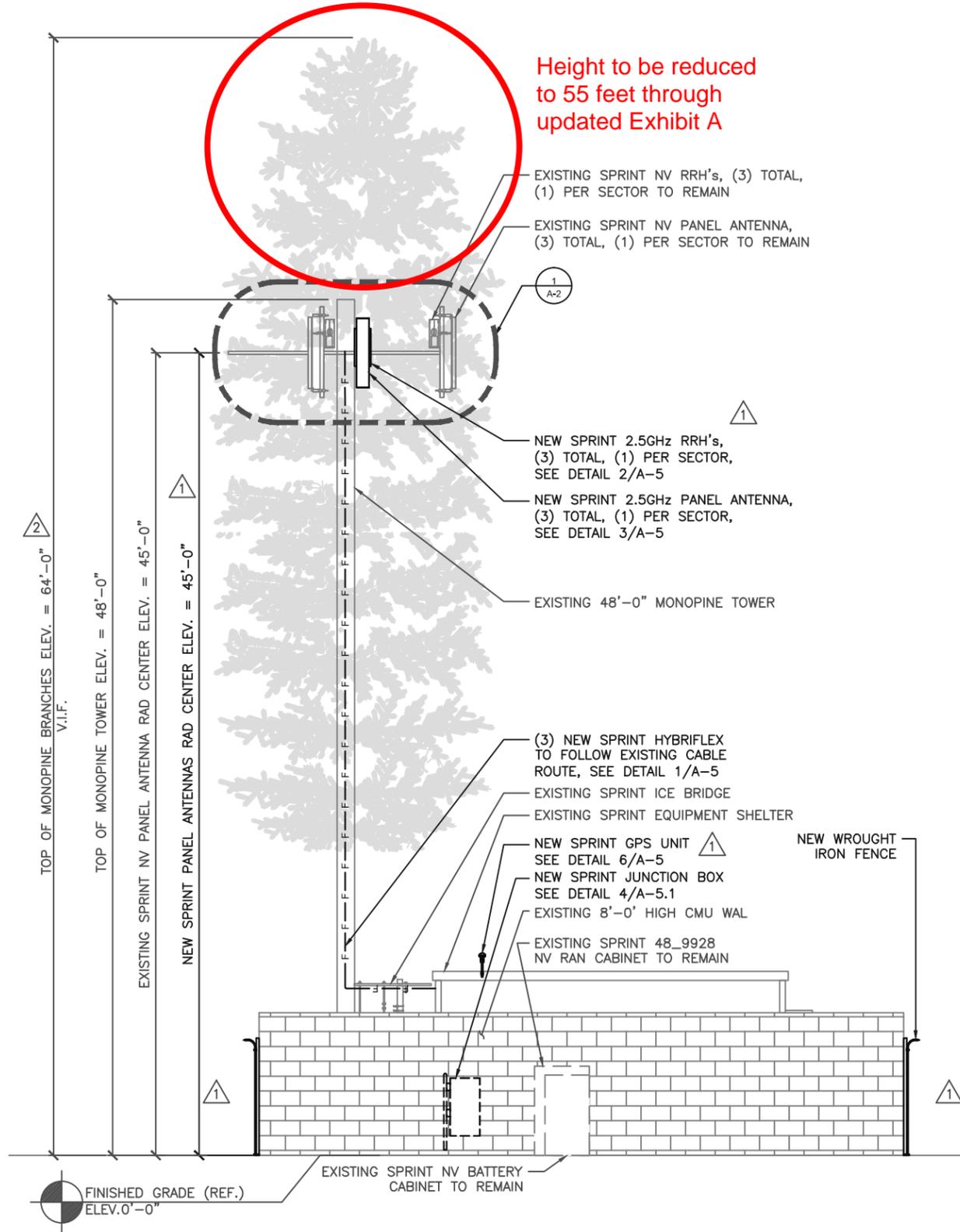


EXISTING WEST ELEVATION

0 1' 2' 4' SCALE: 1/4"=1'-0" (22x34)  
(OR) 1/8"=1'-0" (11x17)

1

NOTE: PAINT ANTENNAS TO MATCH. INSTALL PINE NEEDLE ANTENNA SOCKS



NEW WEST ELEVATION

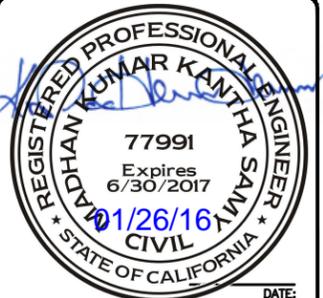
0 1' 2' 4' SCALE: 1/4"=1'-0" (22x34)  
(OR) 1/8"=1'-0" (11x17)

2



REVISIONS			
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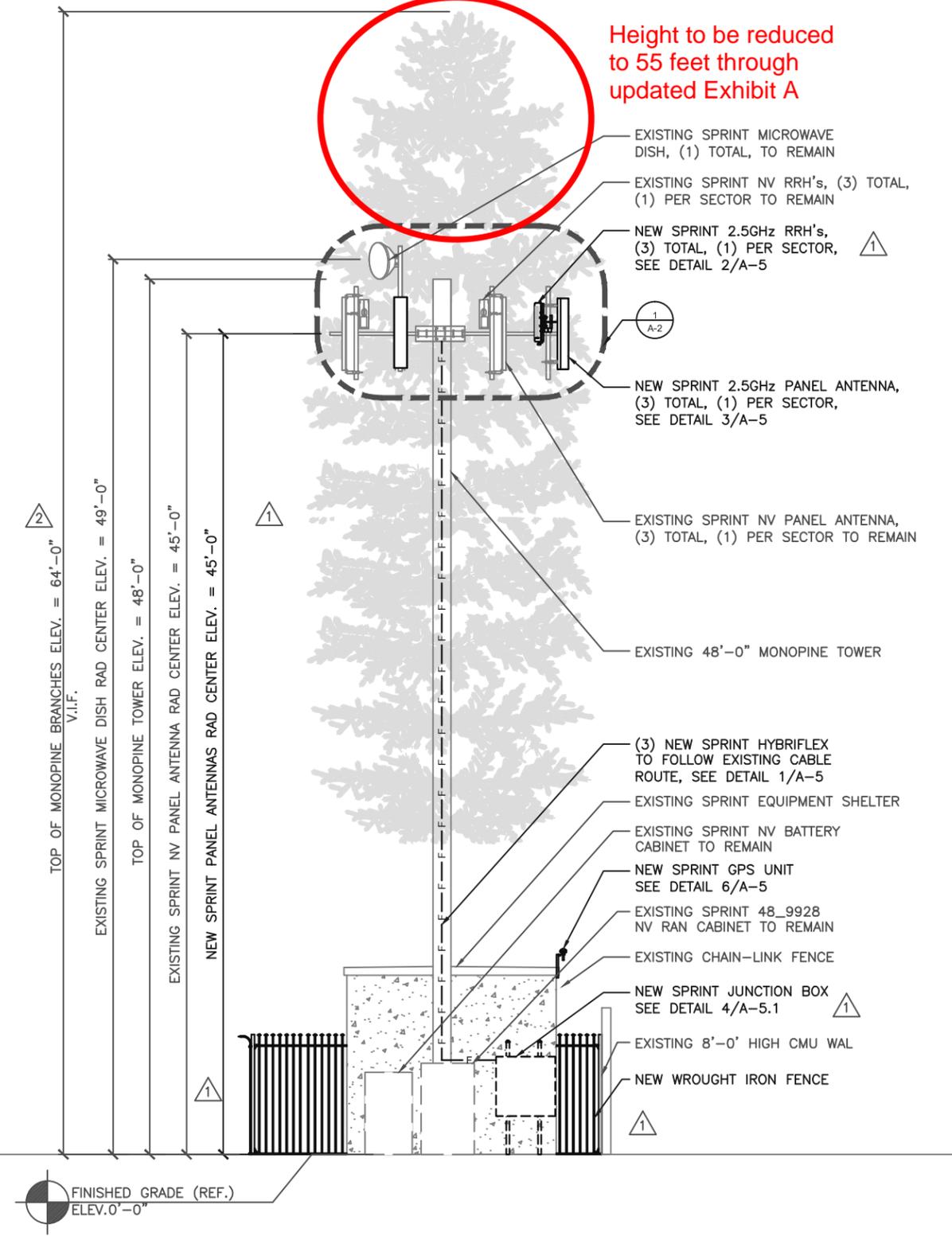
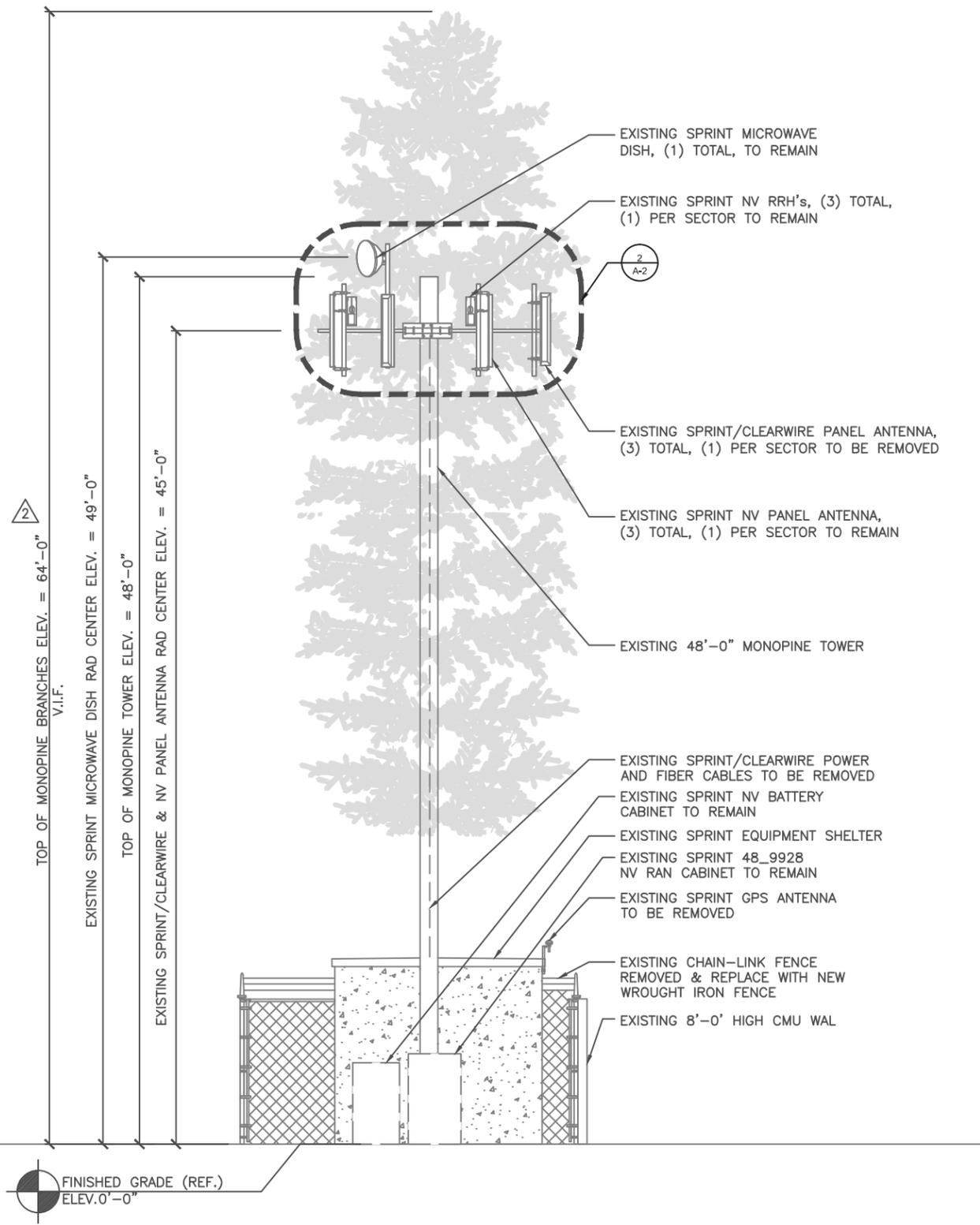
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SHEET TITLE  
**EXISTING & NEW  
WEST ELEVATIONS**

SHEET NUMBER  
**A-4**

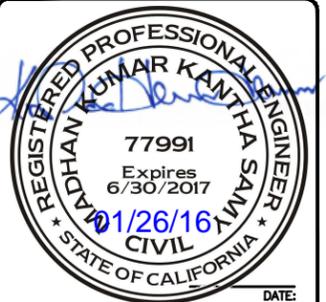
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NOTE: PAINT ANTENNAS TO MATCH. INSTALL PINE NEEDLE ANTENNA SOCKS



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COMPTON, CA 90221

SHEET TITLE  
**EXISTING & NEW  
NORTH  
ELEVATIONS**

SHEET NUMBER  
**A-4.1**

EXISTING NORTH ELEVATION

SCALE: 1/4"=1'-0" (22x34)  
(OR) 1/8"=1'-0" (11x17)

1

NEW NORTH ELEVATION

SCALE: 1/4"=1'-0" (22x34)  
(OR) 1/8"=1'-0" (11x17)

2

**CONTRACTOR NOTES:**

1. CONTRACTOR IS TO REFER TO SPRINT'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
2. CABLE LENGTHS WERE DETERMINED BASED ON THE DESIGN DRAWING. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
3. CONTRACTOR TO USE ROSENBERGER FIBER LINE HANGER COMPONENTS (OR ENGINEER APPROVED EQUAL).

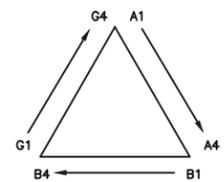
**GENERAL COLOR CODING NOTES:**

1. THE ANTENNA SYSTEM COAX SHALL BE LABELED WITH VINYL TAPE.
2. THE STANDARD IS BASED ON EIGHT COLORED TAPES-RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE, AND VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR CONTRACTOR ON SITE.
3. USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLE BY SECTOR AND CABLE NUMBER AS SHOWN ON "CABLE COLOR CHART".
4. WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN TECHNOLOGIES IS ENCOUNTERED, THE CONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING STANDARD. IN THE ABSENCE OF AN EXISTING COLOR CODING AND TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
5. ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE INSTALLED USING A MINIMUM OF (3) THREE WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
6. ALL COLOR BANDS INSTALLED AT THE TOP OF THE TOWER SHALL BE A MINIMUM OF 3" WIDE, AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE BETWEEN EACH COLOR.
7. ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE.
8. IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE NEW TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.

CABLE MARKING COLOR CONVENTION TABLE								
	A1-1	A1-2	A2-1	A2-2	A3-1	A3-2	A4-1	A4-2
ALPHA, A, X, #1	+45	-45	+45	-45	+45	-45	+45	-45
SECTOR	RED							
ANTENNA	WHITE	WHITE	ORANGE	ORANGE	BROWN	BROWN	VIOLET	VIOLET
PORT(+/-)	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN
BAND (850/1900)	ORANGE/VIOLET							
	B1-1	B1-2	B2-1	B2-2	B3-1	B3-2	B4-1	B4-2
BETA, B, Y, #2	+45	-45	+45	-45	+45	-45	+45	-45
SECTOR	BLUE							
ANTENNA	WHITE	WHITE	ORANGE	ORANGE	BROWN	BROWN	VIOLET	VIOLET
PORT(+/-)	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN
BAND (850/1900)	ORANGE/VIOLET							
	C1-1	C1-2	C2-1	C2-2	C3-1	C3-2	C4-1	C4-2
GAMMA, C, Z, #3	+45	-45	+45	-45	+45	-45	+45	-45
SECTOR	GREEN							
ANTENNA	WHITE	WHITE	ORANGE	ORANGE	BROWN	BROWN	VIOLET	VIOLET
PORT(+/-)	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN
BAND (850/1900)	ORANGE/VIOLET							
	D1-1	D1-2	D2-1	D2-2	D3-1	D3-2	D4-1	D4-2
DELTA, D, #4	+45	-45	+45	-45	+45	-45	+45	-45
SECTOR	YELLOW							
ANTENNA	WHITE	WHITE	ORANGE	ORANGE	BROWN	BROWN	VIOLET	VIOLET
PORT(+/-)	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN
BAND (850/1900)	ORANGE/VIOLET							

NOTE\*: ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE INSTALLED USING A MINIMUM OF (3) WRAPS OF TAPE.  
 NOTE\*: ALL COLOR BANDS INSTALLED AT THE TOWER TOP SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACING BETWEEN EACH COLOR.  
 NOTE\*: ALL COLOR BANDS INSTALLED AT OR NEAR THE GROUND MAY BE ONLY 3/4" WIDE. EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" SIDE BANDS.  
 NOTE\*: EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH 3/4" COLOR BANDS JUST PRIOR TO ENTERING BTS OR TRANSMITTER BUILDING.  
 NOTE\*: ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" BANDS ON EACH END OF THE BOTTOM JUMPER.  
 NOTE\*: ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE.  
 NOTE\*: EACH COLOR BAND SHALL HAVE A MINIMUM OF (3) WRAPS AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.  
 NOTE\*: X-POLE ANTENNAS SHOULD USE "XX-1" FOR THE "+45" PORT, "XX-2" FOR THE "-45" PORT.  
 NOTE\*: COLORBAND #4 REFERS TO THE FREQUENCY BAND: ORANGE=850, VIOLET=1900. USED ON JUMPERS ONLY.  
 NOTE\*: RF FEEDLINE SHALL BE IDENTIFIED WITH A METAL TAG (STAINLESS OR BRASS) AND STAMPED WITH THE SECTOR, ANTENNA POSITION, AND CABLE NUMBER.  
 NOTE\*: ANTENNAS MUST BE IDENTIFIED, USING THE SECTOR LETTER AND ANTENNA NUMBER, WITH A BLACK MARKER PRIOR TO INSTALLATION.

FIGURE 1: ANTENNA ORIENTATION



**CABLE MARKING TAGS**

TO PROVIDE ADDITIONAL IDENTIFICATION RF CABLES SHALL BE IDENTIFIED WITH A METAL TAG MADE OF STAINLESS STEEL OR BRASS AND STAMPED WITH A SECTOR, ANTENNA POSITION, AND CABLE NUMBER. THE ID MARKING LOCATIONS SHOULD BE AS PER "CABLE MARKING LOCATIONS TABLE." THE TAG SHOULD BE ATTACHED WITH CORROSIVE PROOF WIRE OR WAX STRING AROUND THE CABLE. THE TAG SHOULD BE LABELED AS SHOWN BELOW IN FIGURE 2.

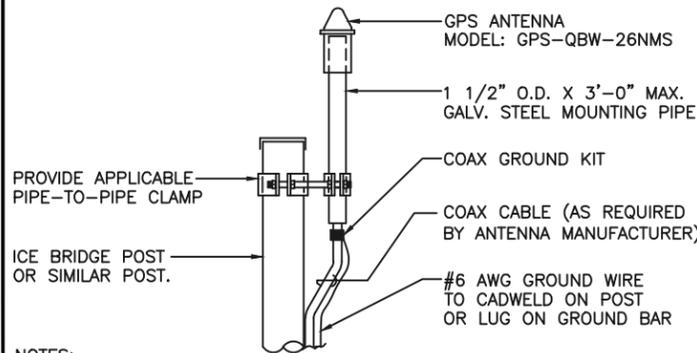
FIGURE 2: TAG DETAIL EXAMPLE



CABLE MARKING LOCATIONS TABLE	
TAPE	TAG
X	EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
X	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS JUST PRIOR TO ENTERING THE BTS OR TRANSMITTER BUILDING.
X	MARKING TAGS SHALL BE ATTACHED AT CABLE ENTRY PORT ON THE INTERIOR OF THE SHELTER
X	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF BOTTOM JUMPER.

SCALE N.T.S. 7

**COLOR CABLE CODING & NOTES**

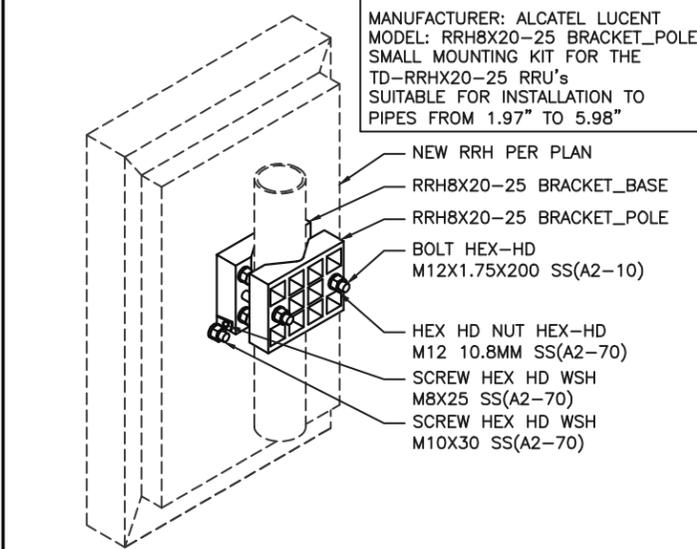


**NOTES:**

1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
2. ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.

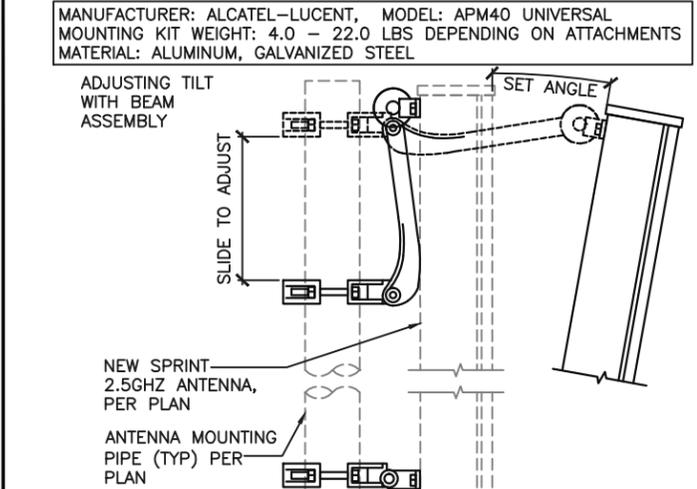
**GPS ANTENNA DETAIL**

SCALE N.T.S. 6



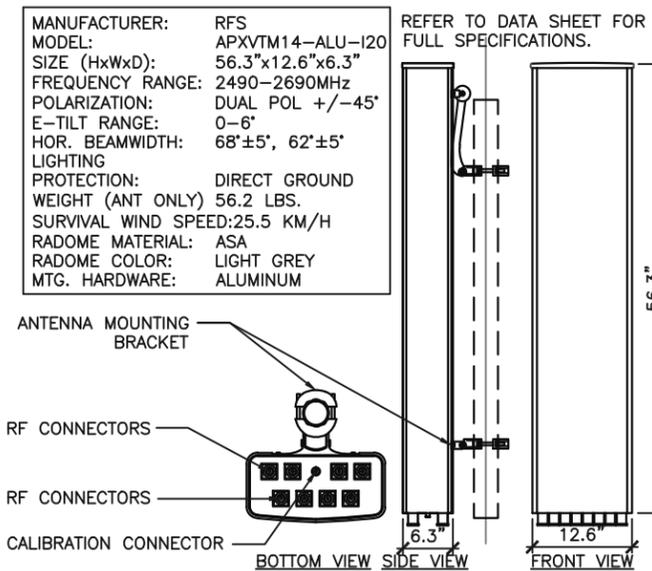
**RRH SMALL POLE MOUNTING BRACKET**

SCALE N.T.S. 5



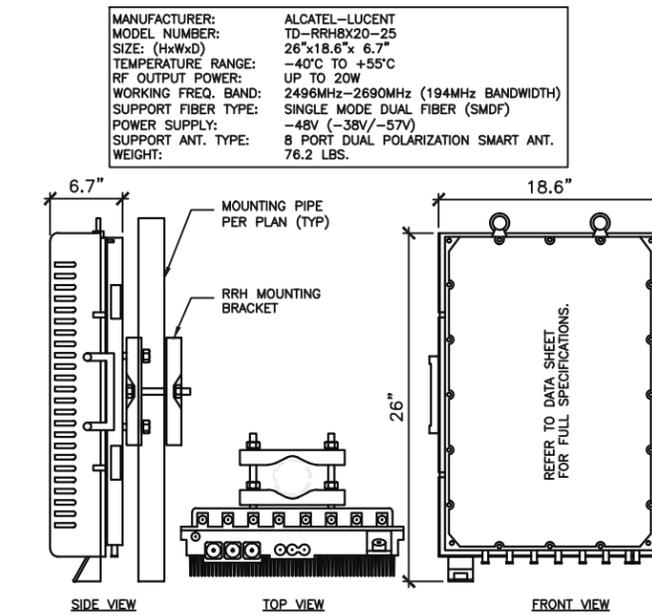
**RFS MOUNTING KIT (PIPE MOUNT)**

SCALE N.T.S. 4



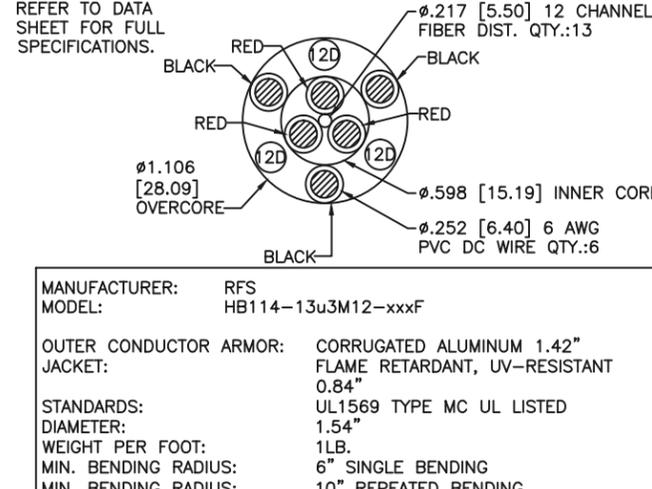
**RFS 2.5GHz ANTENNA**

SCALE N.T.S. 3



**ALU 2.5GHz RRH**

SCALE N.T.S. 2



**HYBRIFLEX CABLE**

SCALE N.T.S. 1

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**REGISTERED PROFESSIONAL ENGINEER**  
 MADHAN KUMAR KANTHA SAMI  
 77991  
 Expires 6/30/2017  
 01/26/16  
 CIVIL  
 STATE OF CALIFORNIA

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SHEET TITLE  
**EQUIPMENT  
 DETAILS, SPECS &  
 NOTES**

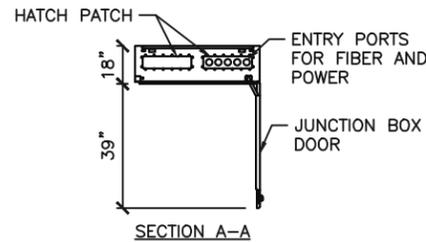
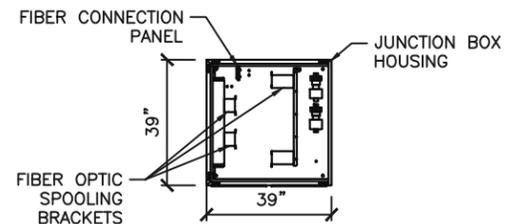
SHEET NUMBER  
**A-5**

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**NOTES:**

- UNLESS OTHERWISE SPECIFIED, PRIMARY DIMENSIONS ARE IN MILLIMETERS, SECONDARY DIMENSIONS ARE EXPRESSED IN INCHES AND ARE ENCLOSED IN BRACKETS. NON-LIMITED DIMENSIONS, OTHER THAN THE SIZE OF RAM MATERIAL, SHALL BE HELD TO  $\pm 0.75$  [.03] EXCEPT AS FOLLOWS:  
 EDGE TO HOLE:  $\pm 0.35$  [.15]  
 FLANGE TO HOLE:  $\pm 0.5$  [.020]  
 BETWEEN HOLES:  
 IN PLATE:  $\pm 0.15$  [.005]  
 BETWEEN FLANGES:  $\pm 0.5$  [.020]  
 HOLES:  
 STANDARD:  $\pm 0.15$  [.005]  
 PRESS FIT:  $\pm 0.08$  -0.00 [+0.003--0.000]  
 ANGLES:  $\pm 1$  DEGREES
- THIS IS A PRO/ENGINEER PARAMETRIC, COMPUTER-GENERATED DRAWING. ANY CHANGES MUST BE MADE WITHIN THE FILES.
- THIS DRAWING COMPLEMENTS THE ELECTRONIC DATA FILES LISTED IN THE PRO/1 REVISION FILE TABLE. BOTH ELECTRONIC DATA FILES AND THE DRAWING ARE REQUIRED FOR COMPLETE MANUFACTURING INFORMATION.
- DIMENSIONS NOT INDICATED AS REFERENCE ARE COORDINATED OR CRITICAL. TOLERANCES FOR THESE DIMENSIONS ARE STATED ON THE DRAWING.
- TOLERANCES ARE NOT CUMULATIVE
- REMOVE ALL BURRS AND SHARP EDGES.
- UNLESS OTHERWISE SPECIFIED, THE MAXIMUM INSIDE BENDING RAD SHALL BE EQUAL TO THE THICKNESS OF THE MATERIAL BEING FORMED.

- THIS PART/ASSEMBLY SHALL CONFORM TO ALCATEL-LUCENT BANNED SUBSTANCE AND ENVIRONMENTAL HAZARDOUS SUBSTANCE REQUIREMENTS DOCUMENTED IN 1AA 00266 0035 ASZZA.
- ALL MOUNTING MATERIAL (SCREWS, WASHERS AND NUTS) SHALL CONFORM TO ANSI AND ASME STANDARDS.
- PAPER PULL TEST A TRIP OF PAPER IS PLACED BETWEEN THE CABINET J FLANGE AND THE DOOR GASKET WHILE THE DOOR, FULLY, THE PAPER IS PULLED GENTLY. THE PAPER SHALL OFFER SIGNIFICANT RESISTANCE, GREATER THAN 2 POUNDS (0.9KG), WHICH INDICATES ADEQUATE GASKET COMPRESSION AND REQUIRES CORRECTION. THE STRIP OF PAPER SHOULD BE 25MM (1.0 INCH) WIDE. IT SHOULD CONSIST OF CONVENTIONAL PAPER (~75 GRAMS/METERS), .076MM (.003 INCHES) TO .088 (.0035 INCHES) THICK. PAPER TESTING IS DONE ON FRONT DOOR WHERE GASKET COMPRESSION IS AT MINIMUM RIGHT SIDE TOP AND BOTTOM CORNERS, ON THE HORIZONTAL EDGES, AND MIDWAY BETWEEN EACH OF THE PAWLS.
- VELCRO BELT SHALL BE CUT TO 60MM (2.35 INCH)



JUNCTION BOX DETAIL

SCALE  
N.T.S.

4

NOT USED

SCALE  
N.T.S.

2

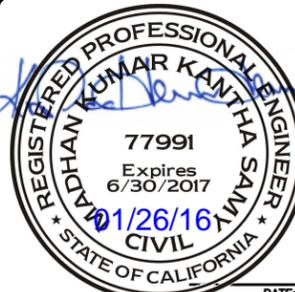


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**REVISIONS**

REV.	DATE	DESCRIPTION	INITIALS
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2	01/15/16	CLIENT COMMENTS	NS
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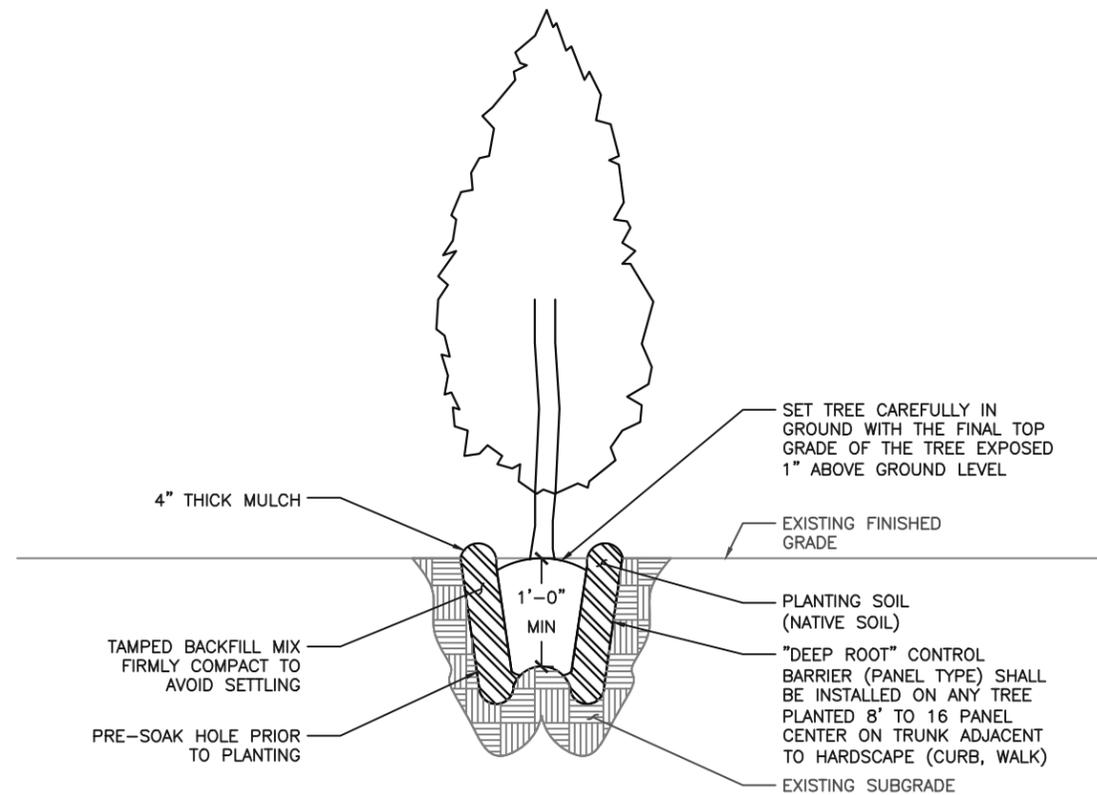
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 DETAILS & SPECS**

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3

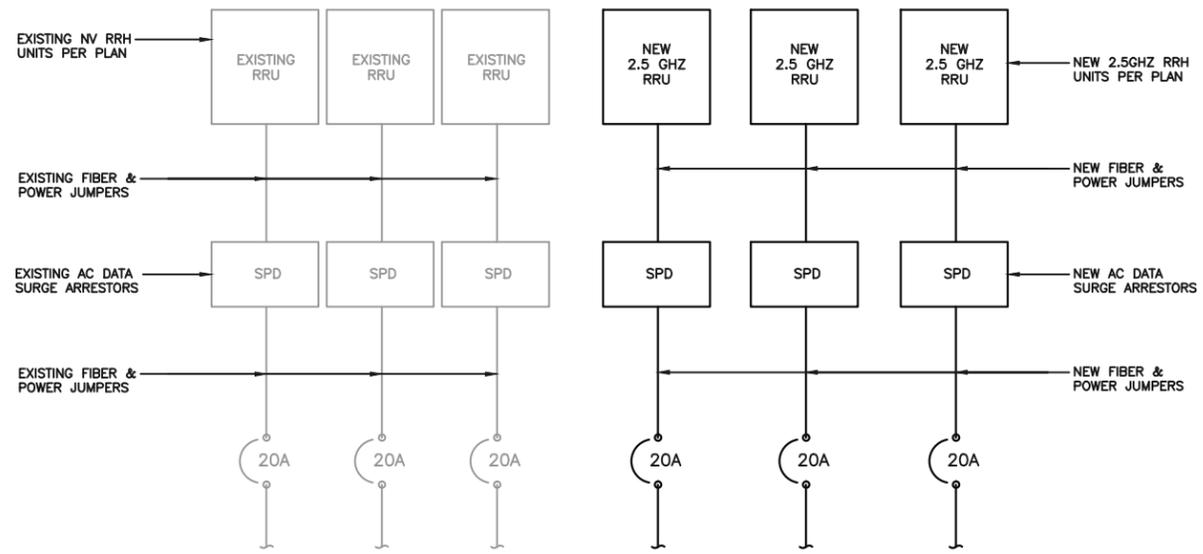
THUJA PLICATA X STANDISHII TREE DETAIL

SCALE  
N.T.S.

1

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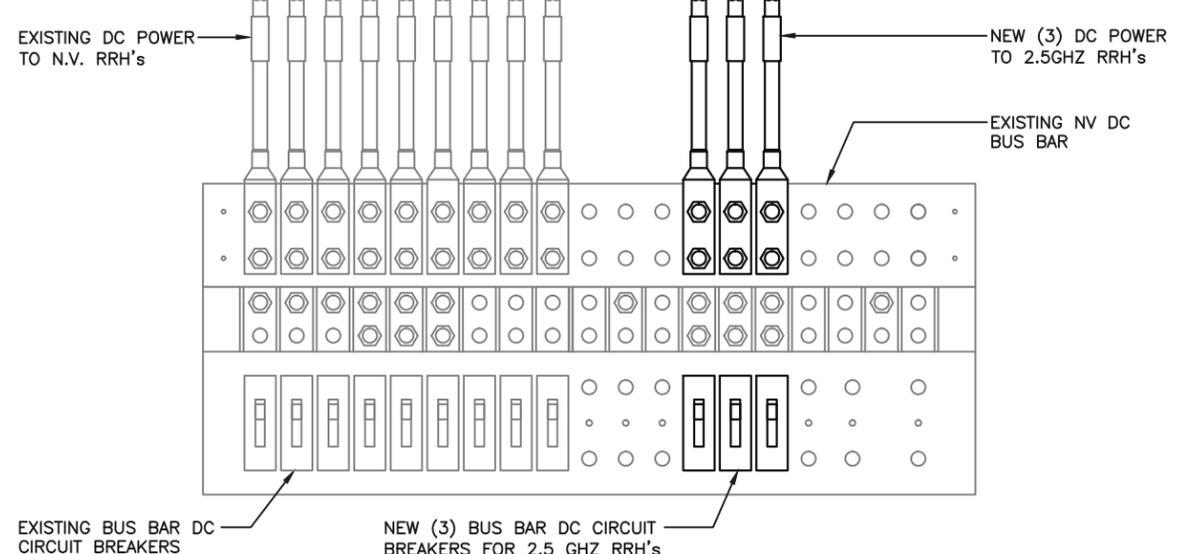
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DC ONE LINE DIAGRAM

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3



DC POWER DISTRIBUTION

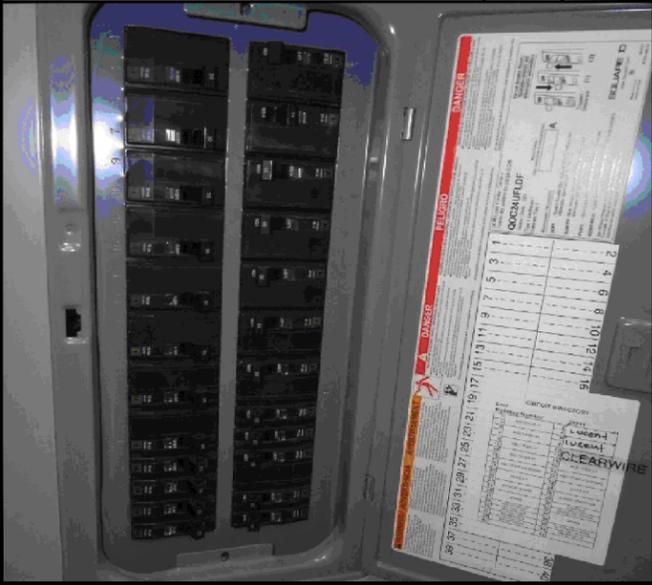
SCALE  
N.T.S.

2

NOT USED

SCALE  
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5

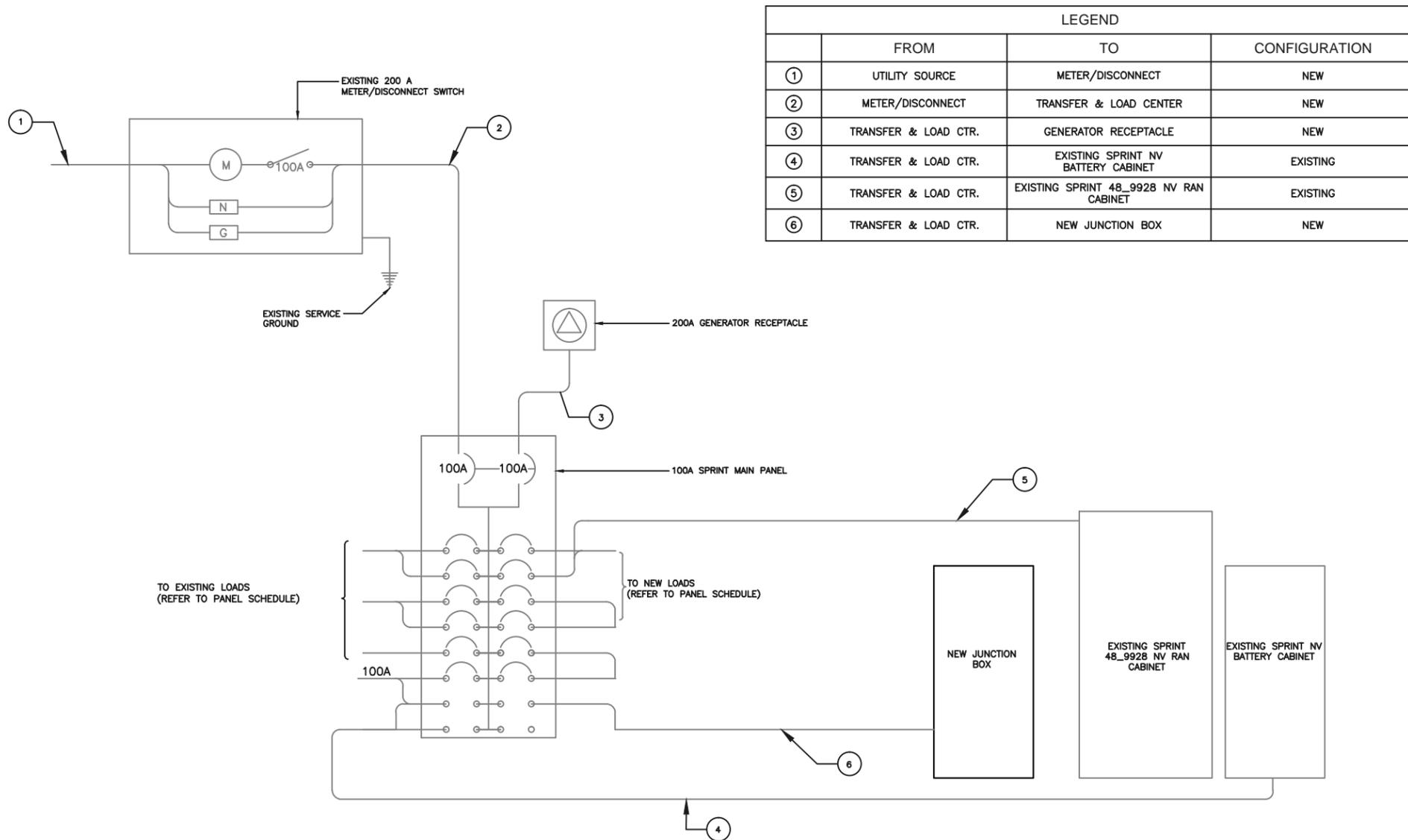


NOT USED

SCALE  
N.T.S.

4

SINGLE LINE DIAGRAM



LEGEND			
	FROM	TO	CONFIGURATION
①	UTILITY SOURCE	METER/DISCONNECT	NEW
②	METER/DISCONNECT	TRANSFER & LOAD CENTER	NEW
③	TRANSFER & LOAD CTR.	GENERATOR RECEPTACLE	NEW
④	TRANSFER & LOAD CTR.	EXISTING SPRINT NV BATTERY CABINET	EXISTING
⑤	TRANSFER & LOAD CTR.	EXISTING SPRINT 48_9928 NV RAN CABINET	EXISTING
⑥	TRANSFER & LOAD CTR.	NEW JUNCTION BOX	NEW

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SHEET TITLE  
**ELECTRICAL  
DETAILS**

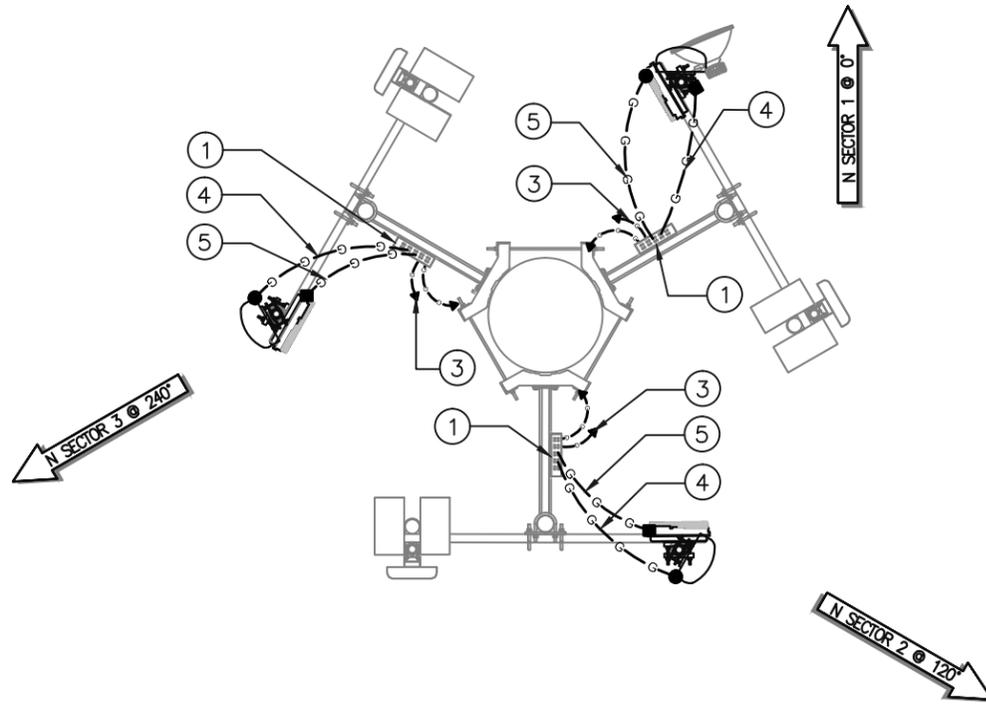
SHEET NUMBER  
**E-1**

SCALE  
N.T.S.

1

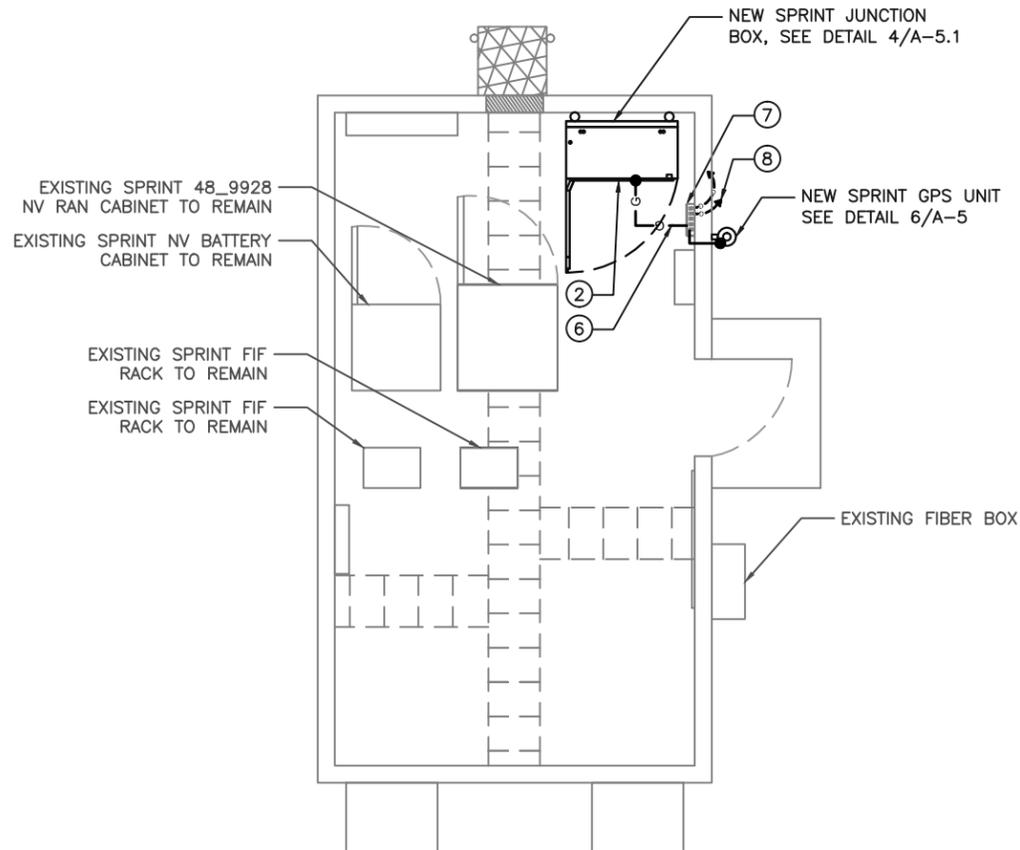


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SCHEMATIC ANTENNA GROUNDING PLAN

0 6" 1' 2' SCALE: 1/2"=1'-0" (22x34)  
(OR) 1/4"=1'-0" (11x17) 1



SCHEMATIC EQUIPMENT GROUNDING PLAN

0 1' 2' 3' SCALE: 3/8"=1'-0" (22x34)  
(OR) 3/16"=1'-0" (11x17) 2

- ① ANTENNA GROUND BUS BAR NEAR ANTENNA MOUNTS WITH COAX GROUND KIT.
- ② NEW SPRINT 2.5GHZ EQUIPMENT CABINETS
- ③ #6 AWG GROUND FROM ANTENNA GROUND BUS BAR TO TIE INTO EXISTING GROUNDING SYSTEM (TYP OF (2) PLACES).
- ④ #6 AWG GROUND FROM ANTENNAS TO ANTENNA GROUND BUS BAR.
- ⑤ #6 AWG GROUND FROM RADIOS TO ANTENNA GROUND BUS BAR.
- ⑥ GROUND NEW 2.5 EQUIPMENT TO NEW GROUND BAR
- ⑦ NEW SPRINT GROUND BAR
- ⑧ #6 AWG GROUND FROM NEW GROUND BUS BAR TO TIE INTO EXISTING GROUNDING SYSTEM (TYP. OF (2) PLACES)

GROUNDING KEY

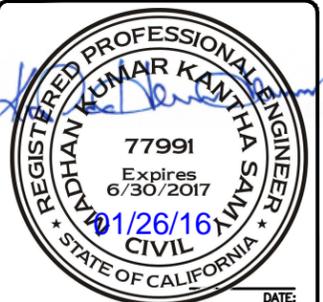
- 1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- 2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS, FOLLOW ANTENNA AND BTS MANUFACTURES PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELDS AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.
- 3. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
- 4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE. GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY AN SPRINT REPRESENTATIVE.
- 5. REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
- 6. CONTRACTOR TO ABIDE BY ALL SPRINT SAFETY STANDARDS DURING SITE CONSTRUCTION.
- 7. CONTRACTOR SHALL REFER TO SPRINT STANDARDS FOR GROUNDING CONNECTIONS & INSTALLATION METHODS.
- 8. ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED SPRINT REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RING.
- 9. NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- 10. GROUNDING ROD NOTES (WHERE APPLICABLE)
- 11. ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED; A QUALIFIED INDIVIDUAL. UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
- 12. POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.

GENERAL GROUNDING NOTES



REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
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Δ	01/15/16	CLIENT COMMENTS	NS
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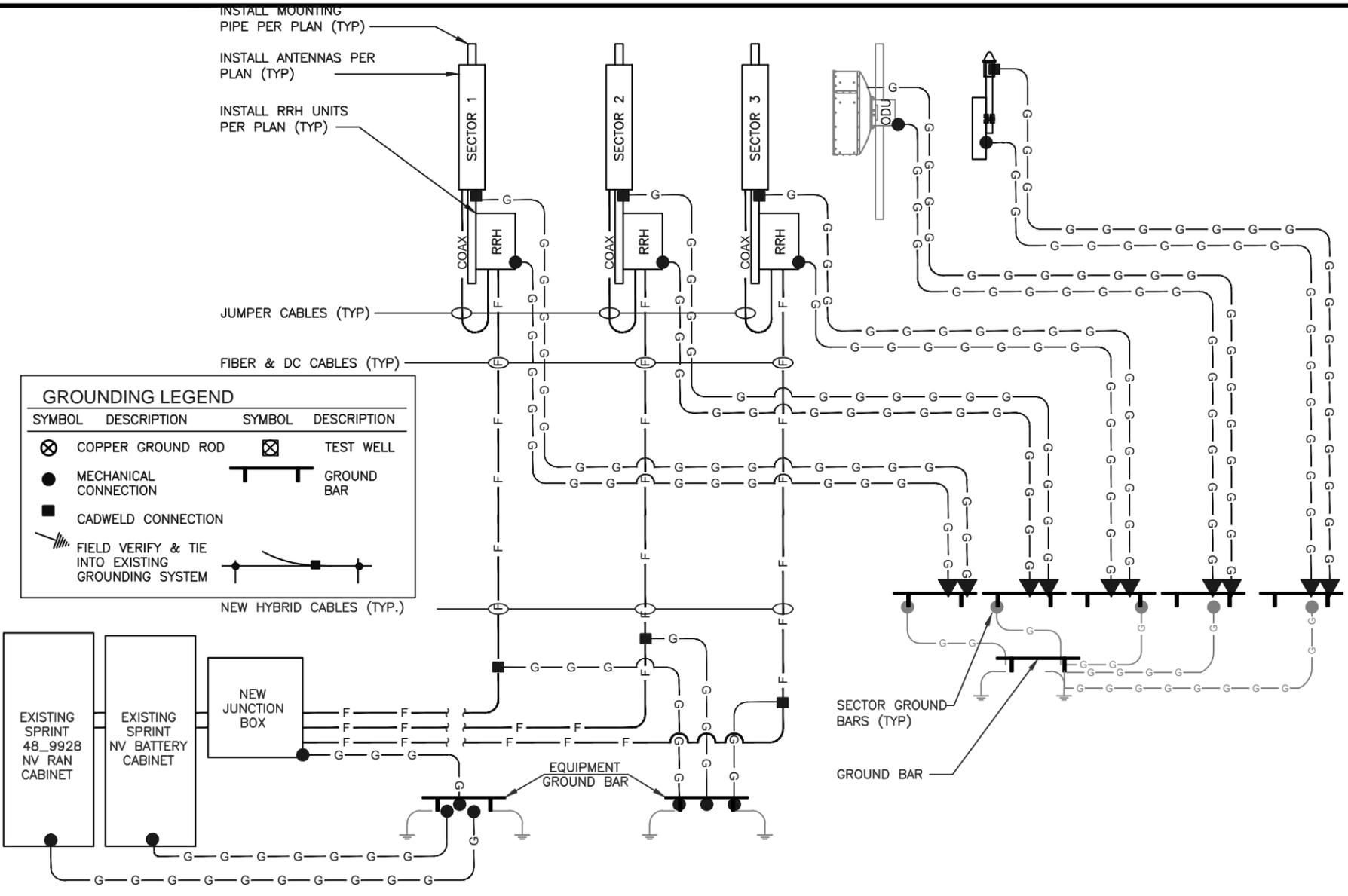
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SHEET TITLE  
**SCHEMATIC GROUNDING PLANS**

SHEET NUMBER  
**G-1**

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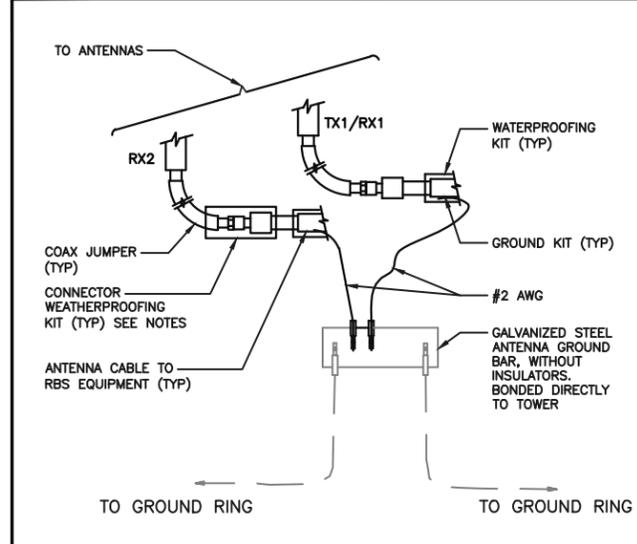
INSTALL MOUNTING PIPE PER PLAN (TYP)  
 INSTALL ANTENNAS PER PLAN (TYP)  
 INSTALL RRH UNITS PER PLAN (TYP)



GROUNDING LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COPPER GROUND ROD		TEST WELL
	MECHANICAL CONNECTION		GROUND BAR
	CADWELDED CONNECTION		FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM

NOT USED

SCALE N.T.S. 3



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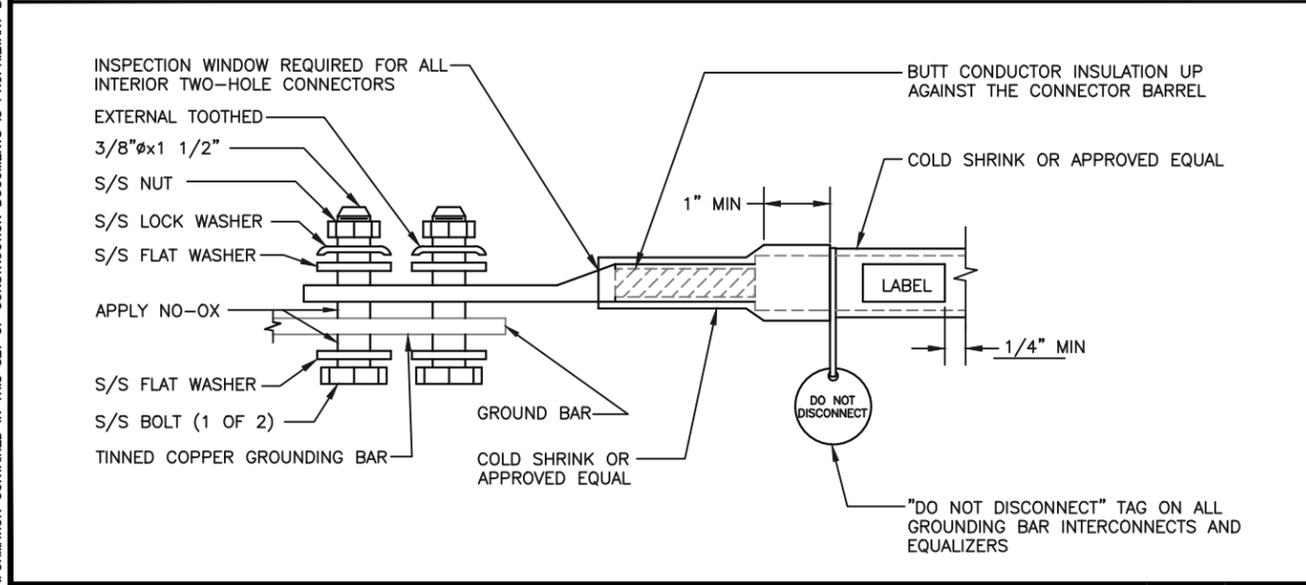
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SHEET TITLE  
**GROUNDING DETAILS**

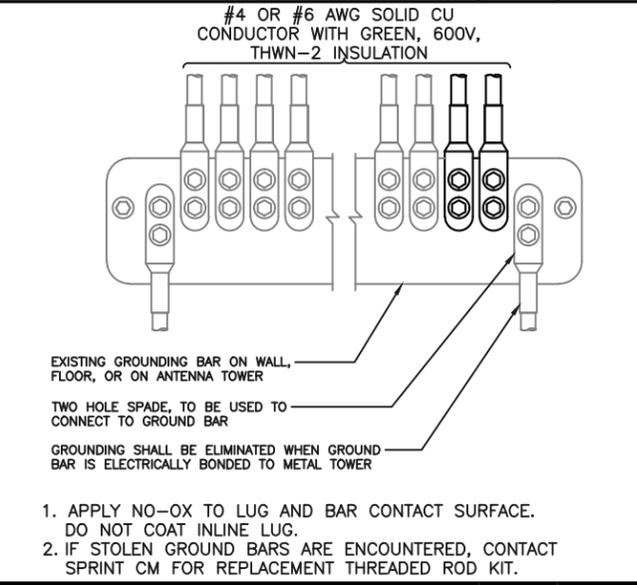
SHEET NUMBER  
**G-2**

TYPICAL GROUNDING RISER DIAGRAM

SCALE N.T.S. 5



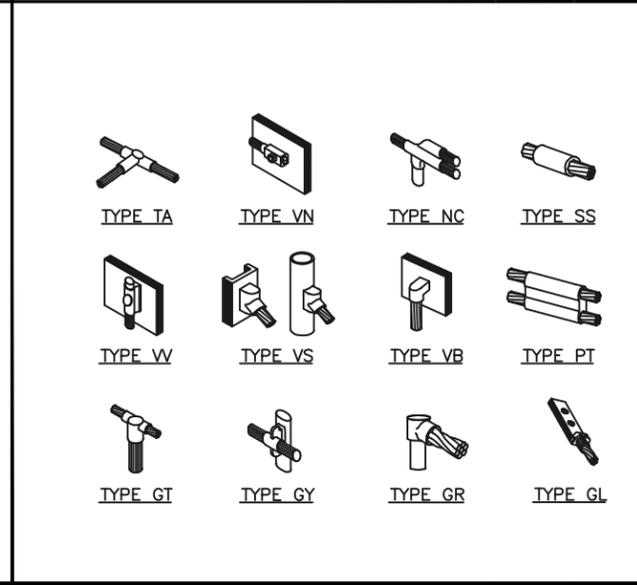
SCALE N.T.S. 6



SCALE N.T.S. 4

GROUND CABLE CONNECTION

SCALE N.T.S. 2



SCALE N.T.S. 1

TWO HOLE LUG CONNECTION

GROUND WIRE INSTALLATION

EXOTHERMIC WELD CONNECTIONS