

DIGALERT



DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO WORKING
DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

NETWORK VISION MMBTS LAUNCH

LA54XC265C EDISON BUENA VISTA (FIRESTONE BOYSCOUT) M24-T1 MIRA LOMA-WALNUT 220kv (BUILT 1962)

19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY
LATITUDE: 33° 57' 28.78" N
33.957965
LONGITUDE: -117° 49' 21.65" W
-117.822656

OC METRO MARKET
(SCE LATTICE TOWER)



SHEET NO:	DESCRIPTION:
T-1	TITLE SHEET
T-2	ABBREVIATIONS, SYMBOLS, GENERAL NOTES & SPECIFICATIONS
T-3	SIGNAGE PLACARDS
A-1	SITE PLAN
A-1.1	ENLARGED SITE PLAN
A-2	EQUIPMENT AND ANTENNA LAYOUT PLAN
A-3	ELEVATIONS
A-4	ELEVATIONS
A-5	DETAILS
A-6	CABLE COLOR CODING REQUIREMENTS
E-1	GROUNDING PLAN
E-2	ELECTRICAL DETAILS
AAV-0	FIBER SITE PHOTOS
AAV-1	FIBER SITE PLAN
AAV-2	FIBER DETAILS

SHEET INDEX



SPRINT PCS
310 COMMERCE
IRVINE, CALIFORNIA 92602



PLANS PREPARED BY:



1576 NORTH BATAVIA ST., STE 1C
ORANGE CA 92667
PH: (714) 685-0123 FAX: (714) 685-0125

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
**LA54XC265C EDISON BUENA VISTA (FIRESTONE BOYSCOUT)
M24-T1 MIRA LOMA-WALNUT 220kv (BUILT 1962)**
19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY

ISSUE DATE:

01/22/2013

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

REVISION:

3

CALIFORNIA STATE CODE COMPLIANCE:

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- * CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25) 2010
- * CALIFORNIA BUILDING CODES 2010
- * CITY / COUNTY ORDINANCES/ LABC 2011
- * BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- * CALIFORNIA MECHANICAL CODES 2010
- * ANSI / EIA-222-F LIFE SAFETY CODE NFPA-101
- * CALIFORNIA PLUMBING CODES 2010
- * CALIFORNIA ELECTRICAL CODES 2010
- * LOCAL BUILDING CODES 2010

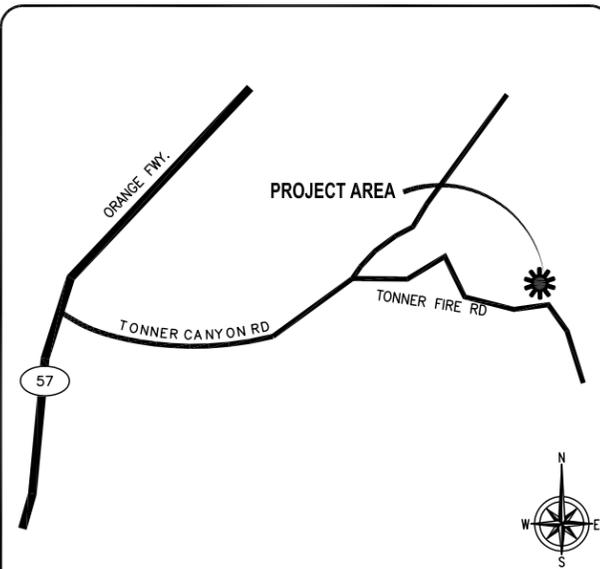
ACCESSIBILITY REQUIREMENTS:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE.

CODE BLOCK

APPROVAL	SIGNATURE	DATE
PROJECT MGR		
CONST. MGR		
RF ENGINEER		
SITE ACQ.		
PLANNING CONSULTANT		
PROPERTY OWNER		
SPRINT REP		

SIGNATURE BLOCK



VICINITY MAP

DIRECTIONS FROM SPRINT OFFICE (IRVINE) OFFICE:

HEAD NORTHWEST ON COMMERCE
TAKE THE 1ST RIGHT TO STAY ON COMMERCE
TURN LEFT ONTO EL CAMINO REAL
TURN LEFT ONTO JAMBOREE RD
TAKE THE RAMP ONTO I-5 N
TAKE EXIT 107A TO MERGE ONTO CA-57 N TOWARD POMONA
TAKE EXIT 11 FOR TONNER CANYON ROAD
TURN LEFT ONTO TONNER CANYON RD
SLIGHT LEFT TO STAY ON TONNER CANYON RD
RESTRICTED USAGE ROAD
TURN RIGHT ONTO TONNER FIRE RD
RESTRICTED USAGE ROAD
DESTINATION WILL BE ON THE LEFT

DISTANCE: 25 MILES
TIME: 35 MINUTES

DRIVING DIRECTIONS

SPRINT PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY

- * REMOVE (4) EXISTING 'SPRINT' PANEL ANTENNAS. ADD (2) NEW 'SPRINT' PANELS ANTENNAS UTILIZING (2) OF THE EMPTY PREVIOUSLY APPROVED PIPE MOUNTS.
- * INSTALL (4) REMOTE RADIO HEADS (RRHs)
- * REMOVED ALL UNUSED COAX CABLE
- * INSTALL (4) NEW FIBER OPTICS CABLES USING EXISTING COAX ROUTE
- * UPGRADE EXISTING 4.0B MODCELL BTS CABINET
- * REMOVE AND REPLACE (1) EXISTING BATTERY CABINET WITH (1) NEW 60ECv2 BATTERY CABINET
- * INSTALL (1) NEW JUNCTION BOX
- * REMOVE (1) EXISTING 'SPRINT' GPS ANTENNA
- * INSTALL (1) NEW 'SPRINT' GPS ANTENNA
- * PLACE TELECOMMUNICATIONS FIBER OPTIC BACKHAUL EQUIPMENT

PROJECT DESCRIPTION

SITE ADDRESS:

19001 1/2 TONNER CANYON ROAD
BREA, CA 92822

PROPERTY OWNER:

OWNER: CITY OF INDUSTRY
SITE ADDRESS: 15651 STAFFORD ST
CITY OF INDUSTRY, CA 91744

APPLICANT:

SPRINT PCS
310 COMMERCE
IRVINE, CALIFORNIA 92602

OCCUPANCY CLASSIFICATION: UNMANNED TELECOMMUNICATION FACILITY

ZONING: LCAZ2

ASSESSORS PARCEL NUMBER: 8714-028-270

(E) LEASE AREA: 504 SQ. FT.

PROJECT SUMMARY

ARCHITECTURAL & ENGINEERING:

RELIANT LAND SERVICES, INC.
1576 NORTH BATAVIA ST, SUITE 1C
ORANGE CA 92867
PHONE: (714) 685-0123
FAX: (714) 685-0125

CONSULTING GROUP:

RELIANT LAND SERVICES, INC.
1576 NORTH BATAVIA ST, SUITE 1C
ORANGE CA 92867
PHONE: (714) 685-0123
FAX: (714) 685-0125

SITE ACQ PROJECT MANAGER:

ALCATEL-LUCENT
CONTACT: KENDRICK AYRES
PHONE: (951) 334-5275

CONSTRUCTION MANAGER:

ALCATEL-LUCENT
CONTACT: JIM MCBRYDE
PHONE: (626) 241-0948

PLANNING CONSULTANT:

RELIANT LAND SERVICES, INC.
CONTACT: JEFF BORCHARDT
PHONE: (949) 307-4468

POWER COMPANY:

SOUTHERN CALIFORNIA EDISON
PHONE: (909) 307-6769

TELCO COMPANY:

SBC
PHONE: (714) 656-5781

PROJECT TEAM

ABBREVIATIONS

AB	ANCHOR BOLT	LAM	LAMINATED
AC	ASPHALTIC CONCRETE	LBS	POUNDS
A/C	AIR CONDITIONING	LT	LIGHT
ADJ	ADJUSTABLE	LA	LIGHTNING ARRESTOR
A.F.F.	ABOVE FINISH FLOOR	LNA	LOW NOISE AMPLIFIER
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
APPROX	APPROXIMATELY	MAT	MATERIAL
A.G.L.	ABOVE GRADE LEVEL	MAX	MAXIMUM
A.M.S.L.	ABOVE MEAN SEA LEVEL	MECH	MECHANICAL
BD	BOARD	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BLKG	BLOCKING	ML	METAL LATH
BOT	BOTTOM	MS	MASONRY OPENING
BSMT	BASEMENT	MO	MACHINE SCREW
BTS	BASE TRANSCIVER STATION	MTD	MOUNTED
		MTL	METAL
C	COURSE(S)	(N)	NEW
CEM	CEMENT	NIC	NOT IN CONTRACT
CL	CHAIN LINK	NO	NUMBER
CLG	CEILING	NTS	NOT TO SCALE
CLR	CLEAR		
COL	COLUMN	OA	OVERALL
CONC	CONCRETE	O.C.	ON CENTER
CONST	CONSTRUCTION	OPNG	OPENING
CONT	CONTINUOUS	OPP	OPPOSITE
CORR	CORRIDOR		
CO	CONDUIT ONLY	PARTN	PARTITION
		PL	PLATE
		PLAS	PLASTER
		PLYWD	PLYWOOD
DIA	DIAMETER	POC	POINT OF CONNECTION
DBL	DOUBLE	PROP	PROPERTY
DEPT	DEPARTMENT	PT	PRESSURE TREATED
DEMO	DEMOLITION		
DIM	DIMENSION	R	RISER
DN	DOWN	REQD	REQUIRED
DR	DOOR	RD	ROOF DRAIN
DTL	DETAIL	RM	ROOM
DWG	DRAWING	RMS	ROOMS
		RO	ROUGH OPENING
(E)	EXISTING		
EA	EACH	SC	SOLID CORE
ELEC	ELECTRIC	SCHED	SCHEDULE
ELEV	ELEVATION	SECT	SECTION
EQUIP	EQUIPMENT	SHT	SHEET
EXP	EXPANSION	SHT	SHEET
EXT	EXTERIOR	SIM	SIMILAR
		SPCS	SPECIFICATIONS
FA	FIRE ALARM	SS	STAINLESS STEEL
FB	FLAT BAR	STL	STEEL
FF	FINISH FLOOR	STOR	STORAGE
FH	FLAT HEAD	STRUCT	STRUCTURAL
FIN	FINISH(ED)	SUSP	SUSPENDED
FLR	FLOOR	SW	SWITCH
FOS	FACE OF STUDS	SWBO	SWITCHBOARD
FS	FINISH SURFACE		
FT	FOOT, FEET	THK	THICK
FTG	FOOTING	TI	TENANT MOVEMENT
FW	FINISH WALL	IMA	TOWER MOUNTED AMPLIFIER
F.G.	FINISH GRADE	TOS	TOP OF SURFACE
FUT	FUTURE	TS	TUBE STEEL
		TYP	TYPICAL
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED		
GL	GLASS	VCT	VINYL COMPOSITION
GR	GRADE		
GYP	GYPSPUM		
GFCI	GROUND FAULT CIRCUIT INTERRUPT	VERT	VERTICAL
		V.I.F.	VERIFY IN FIELD
GND	GROUND	VG	VERTICAL GRAIN
HC	HOLLOW CORE		
HDW	HARDWARE	W/	WITH
HTR	HEATER	WD	WOOD
HORIZ	HOLLOW METAL	WR	WATER RESISTANT
HR	HORIZONTAL	WT	WEIGHT
HT	HEIGHT		
HV	HIGH VOLTAGE	XFMR	TRANSFORMER
		@	AT
ID	INSIDE DIMENSION	[CHANNEL
INS	INSULATION	∅	CENTERLINE
INT	INTERIOR	∠	ANGLE
		ℙ	PROPERTY LINE
JT	JOINT		

SYMBOLS:

	SECTION NUMBER		
	BUILDING SECTION REFERENCE		
	SHEET NUMBER		
	DETAIL NUMBER		
	DETAIL REFERENCE		
	SHEET NUMBER		
	SECTION NUMBER		
	DETAIL SECTION REFERENCE		
	SHEET NUMBER		
	DETAIL NUMBER		
	EXTERIOR ELEVATION REFERENCE		
	KEY NOTE REFERENCE	-----	PROPERTY LINE
	DOOR NUMBER	—X—X—X—	FENCING
	AREA AND/OR ROOM NUMBER	—E—E—E—E—	ELECTRICAL SERVICE
	MECHANICAL UNIT	—T—T—T—T—	TELCO SERVICE
		—E/T—E/T—E/T—	ELECTRICAL & TELCO SERVICE

GENERAL:

- THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, AND 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/ENGINEER.
- 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.
- 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, ADDENDUM'S, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT DRAWINGS TO THE ARCHITECT/ENGINEER AT THE CONCLUSION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE FROM START OF PROJECT TO COMPLETION OF PROJECT.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES.
- ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE 2010 C.B.C. AND ALL THE OTHER LATEST GOVERNING CODES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR PROVIDE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- 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.
- 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 HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.
- ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
- NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR UNLESS NOTED OTHERWISE IN THE PLANS.
- WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.
- ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
- ALL DEBRIS AND REFUGE IS TO BE REMOVED FROM THE PROJECT DAILY. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
- ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR CLARIFICATIONS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF.
- THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSION, ELEVATION, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTION OF THE WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE ARCHITECT/ENGINEER. UNAUTHORIZED CHANGES RENDER THESE DRAWINGS VOID.
- ANY REFERENCE TO THE WORDS APPROVED, OR APPROVAL IN THESE DOCUMENTS SHALL BE HERE DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL NOT RELIEVE THE CONTRACTOR AND/OR HIS SUB-CONTRACTORS OF ANY LIABILITY IN FURNISHING THE REQUIRED MATERIALS OR LABOR SPECIFIED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK. GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS, PRIOR TO STARTING WORK.
- GENERAL CONTRACTOR SHALL COMPLY WITH OSHA AND SPRINT STANDARD SAFETY AND CONSTRUCTION PROCEDURES.
- IN CASE OF EMERGENCY PLEASE CALL: 1 (866) 400-6040.

SITE PREPARATION NOTES:

- THE PREPARATION OF THE SITE FOR CONSTRUCTION SHALL INCLUDE THE REMOVAL OF ALL BROKEN CONCRETE, TREE TRUNKS AND ANY OTHER DEBRIS THAT WOULD BE DAMAGING TO THE FOOTINGS OF THE NEW STRUCTURE.
- BACK FILLING AT TRENCHES SHALL BE OF CLEAN, STERILE SOIL HAVING A SAND EQUIVALENT OF 30 OR GREATER. BACK FILLING SHALL BE DONE IN 8 INCH LAYERS, MOISTURE CONDITIONED AND PROPERLY COMPACTED. ADEQUATE DRAINAGE SHALL BE PROVIDED SUCH THAT NO PONDING OCCURS.
- ALL FOUNDATION FOOTINGS SHALL EXTEND INTO AND BEAR AGAINST NATURAL UNDISTURBED SOIL OR APPROVED COMPACTED FILL. FOOTINGS SHALL EXTEND INTO SOIL DEPTH AS INDICATED IN THE PLANS.
- SHOULD ANY LOOSE FILL, EXPANSIVE SOIL, GROUND WATER OR ANY OTHER UNEXPECTED CONDITIONS BE ENCOUNTERED DURING THE EXCAVATION FOR THE NEW FOUNDATION, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED AND ALL FOUNDATION WORK SHALL CEASE IMMEDIATELY.
- WITHIN AN AREA A MINIMUM OF 5 FEET BEYOND THE BUILDING LIMITS, EXCAVATE A MINIMUM OF 4" OF EXISTING SOIL. REMOVE ALL ORGANICS, PAVEMENT, ROOTS, DEBRIS AND OTHERWISE UNSUITABLE MATERIAL.
- THE SURFACE OF THE EXPOSED SUBGRADE SHALL BE INSPECTED BY PROBING OR TESTING TO CHECK FOR POCKETS OF SOFT OR UNSUITABLE MATERIAL. EXCAVATE UNSUITABLE SOIL AS DIRECTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY.
- PROFROLL THE SURFACE OF THE EXPOSED SUBGRADE WITH A LOADED TANDEM AXLE DUMP TRUCK. REMOVE ALL SOILS WHICH PUMP OR DO NOT COMPACT PROPERLY AS DIRECTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY.
- FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL. PLACE IN 8" LOOSE LIFTS AND THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-698. COMPACT TO A MINIMUM OF 90% RELATIVE COMPACTION.
- THE STRUCTURAL DRAWINGS HERE IN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 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.
- 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 AND BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
- PRIOR TO PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.

SUBMITTALS:

SUBMITTALS FOR SHOP DRAWINGS, MILL TESTS, PRODUCT DATA, ECT. FOR ITEMS DESIGNED BY THE ARCHITECT/ENGINEER OF RECORD SHALL BE MADE TO THE ARCHITECT/ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW THE SUBMITTAL BEFORE FORWARDING TO THE ARCHITECT. SUBMITTALS SHALL BE MADE IN ADVANCE TO ARCHITECT-ENGINEER. SUBMITTALS REQUIRED FOR EACH SECTION OF THESE NOTES ARE SPECIFIED IN THAT SECTION.

SHOP DRAWING REVIEW:

REVIEW BY THE ARCHITECT/ENGINEER IS FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT AND THE CONTRACT DOCUMENTS. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURES THEREFROM. THE CONTRACTOR REMAINS RESPONSIBLE FOR DETAILS AND ACCURACY, FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FOR SELECTION FABRICATION PROCESSES.

ACCESSIBILITY NOTE:

THE TELECOMMUNICATIONS EQUIPMENT SPACE SHOWN HEREON THESE PLANS IS NOT CUSTOMARILY OCCUPIED. WORK TO BE PERFORMED IN THIS FACILITY CANNOT REASONABLY BE PERFORMED BY PERSONS WITH A SEVERE IMPAIRMENT: MOBILITY, SIGHT, AND/OR HEARING. THEREFORE, PER 2007 C.B.C. CHAPTER 11, THIS FACILITY SHALL BE EXEMPTED FROM ALL TITLE 24 ACCESS REQUIREMENTS.

FIRE DEPARTMENT NOTES:

- FIRE DEPARTMENT FINAL INSPECTION REQUIRED. SCHEDULE INSPECTION 2 DAYS IN ADVANCE.
- A CALIFORNIA FIRE CODE PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD-ACID BATTERIES MAY BE REQUIRED AND ISSUED BY FIRE INSPECTOR.
- AN APPROVED METHOD TO NEUTRALIZE SPILLED ELECTROLYTE SHALL BE PROVIDED IN BATTERY EQUIPMENT ENCLOSURE AREA.
MANUFACTURER'S SPECIFICATION:
A. EXTINGUISHING MEDIA : DRY CHEMICAL, FOAM, CO2
B. MINIMUM FIRE EXTINGUISHER REQUIRED : PRO 340 FIRE EXTINGUISHER 3-A-40-B-C RATED
- LOCATIONS AND CLASSIFICATIONS OF FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE CALIFORNIA FIRE CODE STANDARD 10-1 AND PLACEMENT IS SUBJECT TO THE APPROVAL OF THE FIRE INSPECTOR.
- A CALIFORNIA FIRE CODE PERMIT MAY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON SITE AND MAY BE ISSUED BY A FIRE INSPECTOR.
- A HAZARDOUS MATERIALS IDENTIFICATION SIGN MAY BE REQUIRED, WITH THE FOLLOWING IN 1-INCH LETTERS: TOXIC LIQUID, CLASS 1 WATER REACTIVE LIQUID, CORROSIVE LIQUID.

BATTERY NOTES:

BATTERY MFG:	EAST PENN MANUFACTURING
MODEL NO:	12AVR-145L
NUMBER OF BATTERIES:	20 MAX (20 PER CABINET)
TOTAL ELECTROLYTES PER BATTERY:	2.17 GALLONS
TOTAL ELECTROLYTES ON SITE:	43.4 GALLONS MAX.



PLANS PREPARED BY:



1570 NORTH BREAVA ST., STE 1C
ORANGE CA 92667
PH (714) 885-0123 FAX (714) 453-9892

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
**LA54XC265C EDISON
BUENA VISTA
(FIRESTONE BOYSCOUT)
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)**
19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY

ISSUE DATE:

01/22/2013

ISSUED FOR:

100% CD

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

**ABBREVIATIONS, SYMBOLS, GENERAL
NOTES & SPECIFICATIONS**

SHEET NUMBER:

REVISION:

T-2

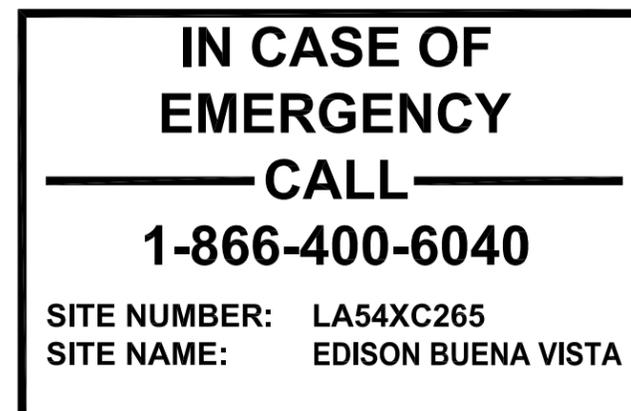
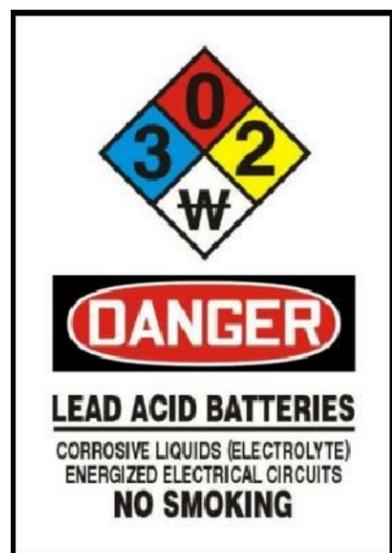
3



WARNING SIGNAGE



RF SIGNAGE



SITE IDENTIFICATION SIGNAGE



PLANS PREPARED BY:



1576 NORTH BREAVA ST., STE 1C
ORANGE CA 92667
PH. (714) 885-0123 FAX (714) 455-9892

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
LA54XC265C EDISON BUENA VISTA (FIRESTONE BOYSCOUT) M24-T1 MIRA LOMA-WALNUT 220kv (BUILT 1962)
19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY

ISSUE DATE:

01/22/2013

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

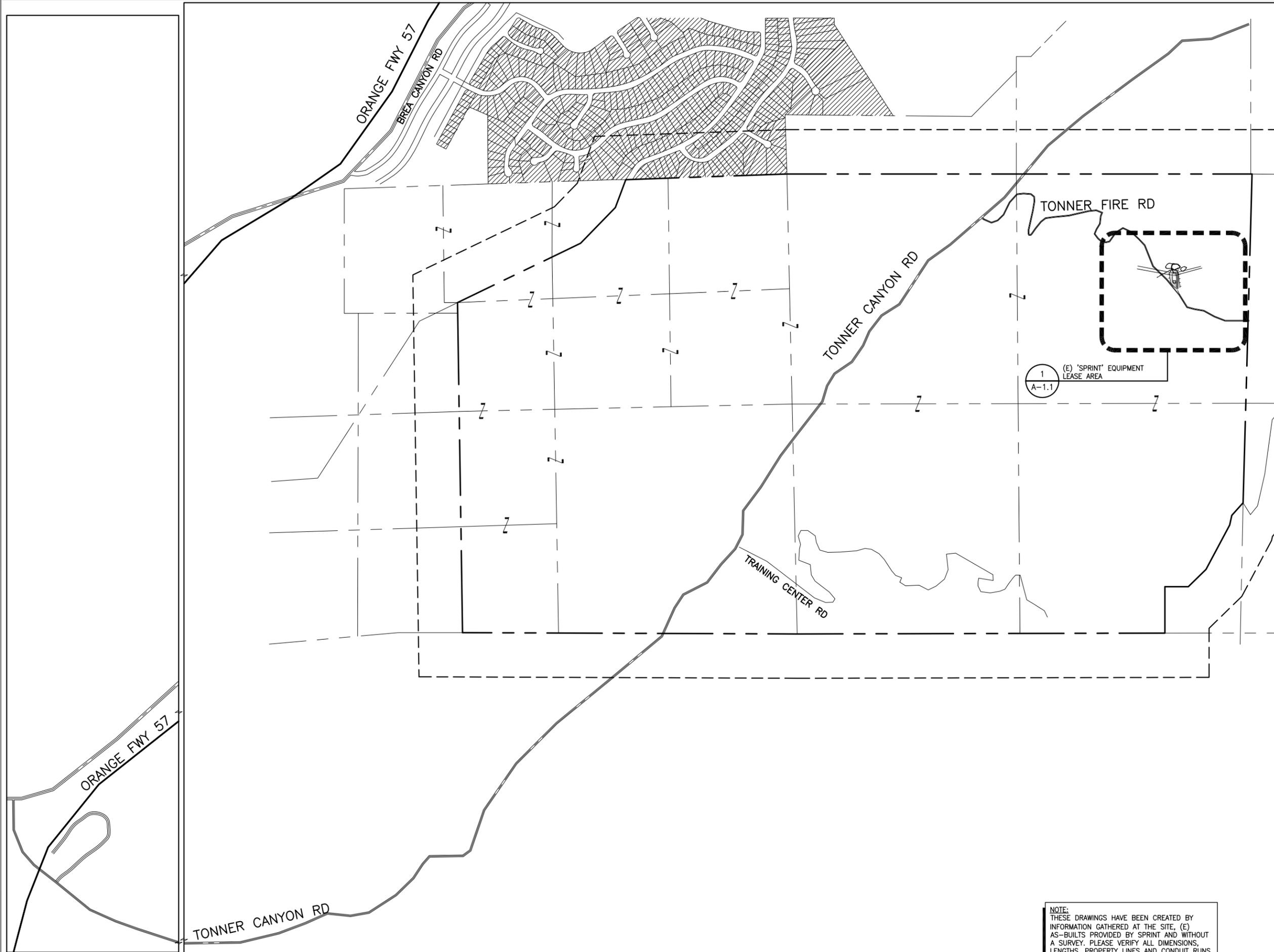
SIGNAGE PLACARDS

SHEET NUMBER:

REVISION:

T-3

3



SPRINT PCS
310 COMMERCE
IRVINE, CALIFORNIA 92602



PLANS PREPARED BY:



1576 NORTH BREAVA ST., STE 1C
ORANGE CA 92667
PH. (714) 885-0123 FAX (714) 453-9892

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
**LA54XC265C EDISON
BUENA VISTA
(FIRESTONE BOYSCOUT)
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)**
19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY

ISSUE DATE:

01/22/2013

ISSUED FOR:

100% CD

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

SITE PLAN

SHEET NUMBER:

REVISION:

A-1

3

NOTE:
THESE DRAWINGS HAVE BEEN CREATED BY
INFORMATION GATHERED AT THE SITE, (E)
AS-BUILTS PROVIDED BY SPRINT AND WITHOUT
A SURVEY. PLEASE VERIFY ALL DIMENSIONS,
LENGTHS, PROPERTY LINES AND CONDUIT RUNS.

PLANS PREPARED BY:



1576 NORTH BREAVA ST., STE 1C
ORANGE CA 92667
PH. (714) 885-0123 FAX (714) 455-9892

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
**LA54XC265C EDISON
BUENA VISTA
(FIRESTONE BOYSCOUT)
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)**
19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY

ISSUE DATE:

01/22/2013

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

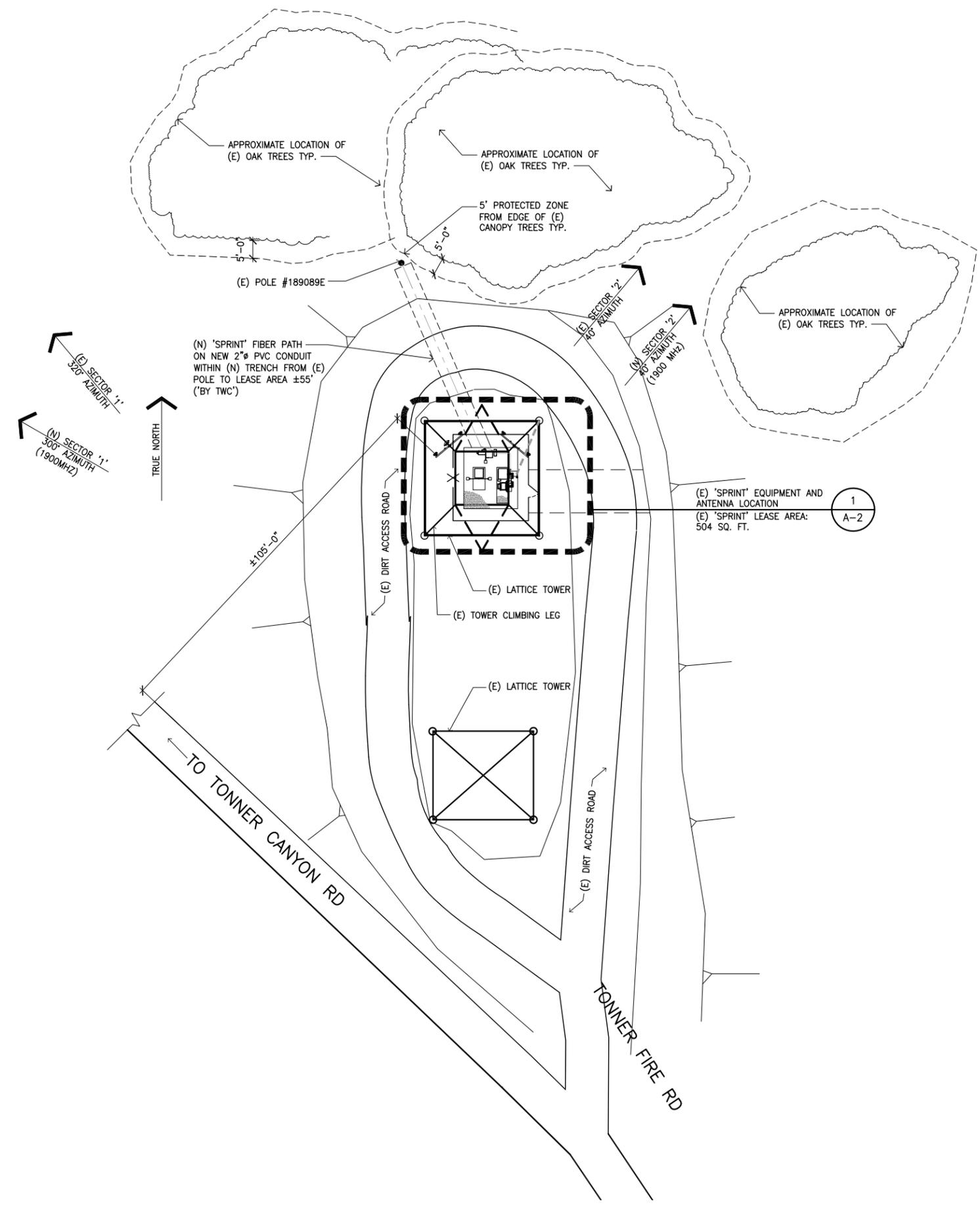
ENLARGED SITE PLAN

SHEET NUMBER:

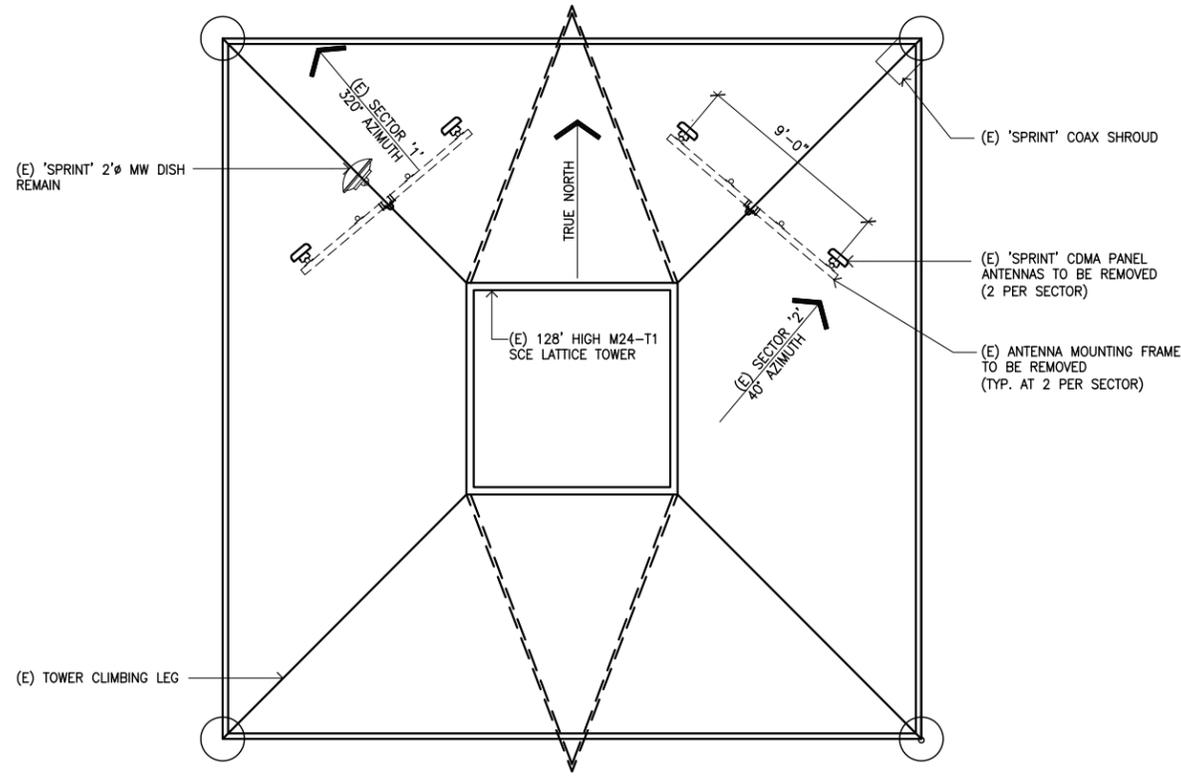
REVISION:

A-1.1

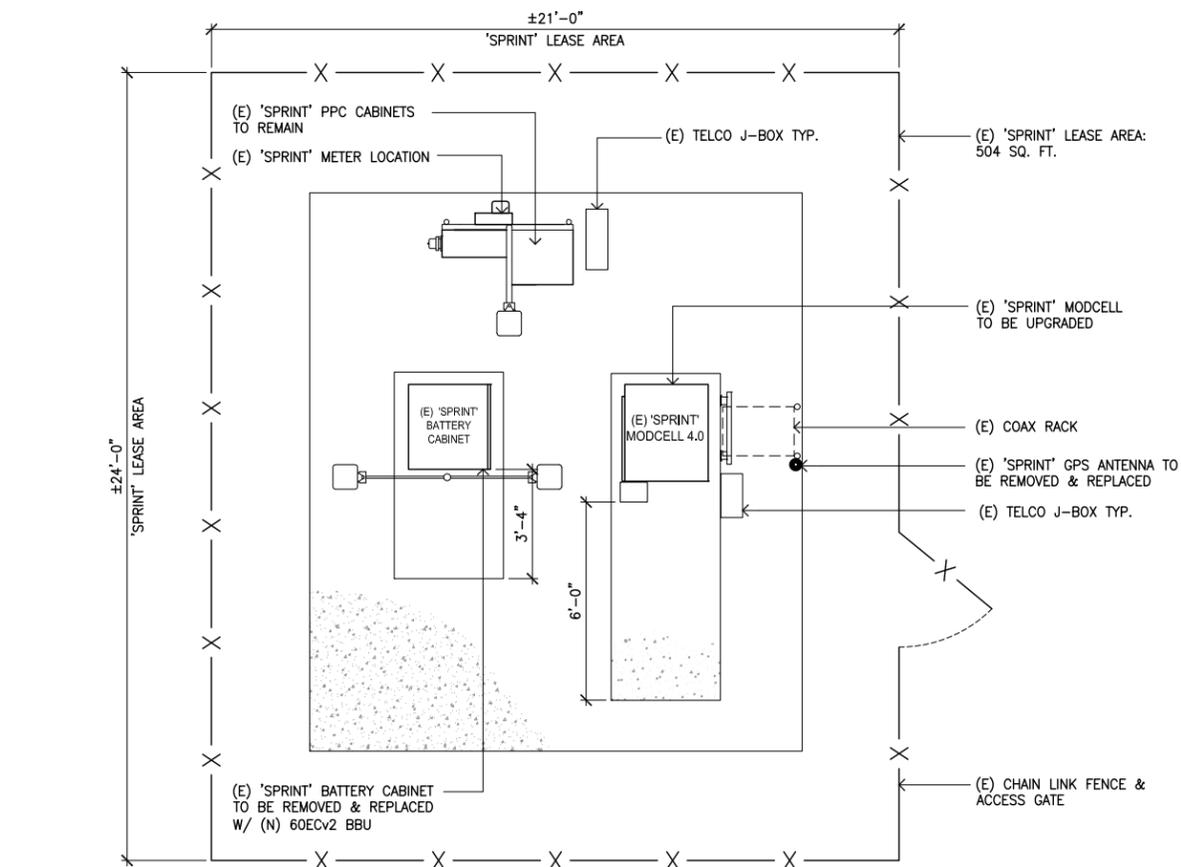
3



NOTE:
THESE DRAWINGS HAVE BEEN CREATED BY
INFORMATION GATHERED AT THE SITE, (E)
AS-BUILTS PROVIDED BY SPRINT AND WITHOUT
A SURVEY. PLEASE VERIFY ALL DIMENSIONS,
LENGTHS, PROPERTY LINES AND CONDUIT RUNS.



ANTENNA LAYOUT

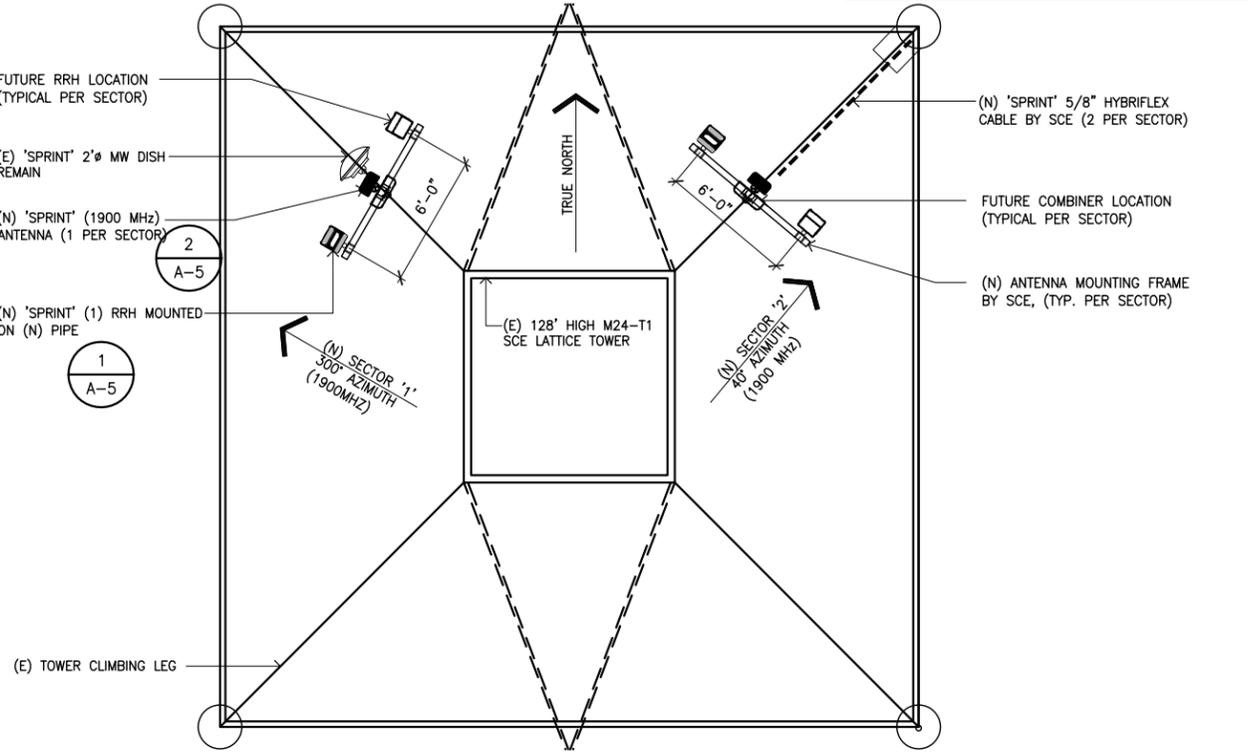


EQUIPMENT LAYOUT

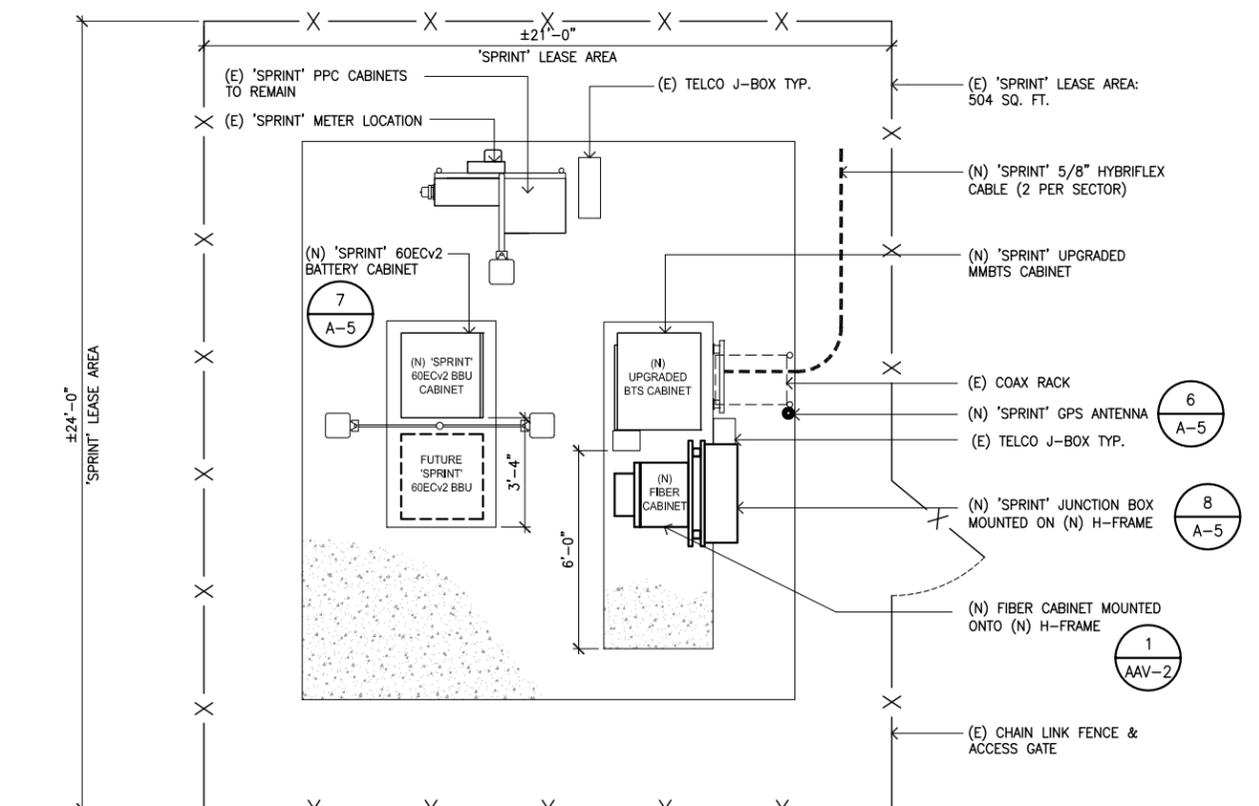
PROPOSED ANTENNA CONFIGURATION AND SCHEDULE ** (SEE CURRENT EBTS FOR BUILD) **													
SECTOR	1	2	1	2	1	2	1	2	1	2	1	2	1
1900MHz	800MHz	1900MHz	800MHz	1900MHz	800MHz	1900MHz	800MHz	1900MHz	800MHz	1900MHz	800MHz	1900MHz	800MHz
AZIMUTH	300°	40°	300°	40°	300°	40°	300°	40°	300°	40°	300°	40°	300°
RADCENTER	37.0'	37.0'	37.0'	37.0'	37.0'	37.0'	37.0'	37.0'	37.0'	37.0'	37.0'	37.0'	37.0'
NUMBER OF ANTENNAS	1	1	1	1	1	1	1	1	1	1	1	1	1
VENDOR	RFS												
MODEL	APXVSP18-C-A20												
ELEC. TILT	0	-1	0	-1	0	-1	0	-1	0	-1	0	-1	0
MECH. TILT	0	0	0	0	0	0	0	0	0	0	0	0	0
RET	TBD												
RRH	1	1	1	1	1	1	1	1	1	1	1	1	1
FIBER OPTIC	(2) 5/8" HYBRIFLEX HB114-1-08U4-M5J												
FIBER LENGTH	±66'-0"	±66'-0"	±66'-0"	±66'-0"	±66'-0"	±66'-0"	±66'-0"	±66'-0"	±66'-0"	±66'-0"	±66'-0"	±66'-0"	±66'-0"
JUMPER LENGTH	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
NUMBER OF COMBINERS	-	-	-	-	-	-	-	-	-	-	-	-	-
VENDOR	-	-	-	-	-	-	-	-	-	-	-	-	-
MODEL	-	-	-	-	-	-	-	-	-	-	-	-	-

*NOTE: COAX CABLE RUN IS APPROXIMATE, PLEASE VERIFY IN FIELD PRIOR TO CONSTRUCTION

NOTE: ROTATE THE ARM AS REQUIRED TO ADJUST TO AZIMUTH



ANTENNA LAYOUT



EQUIPMENT LAYOUT

NOTE: FIELD VERIFY LOCATION OF (N) JUNCTION BOX



PLANS PREPARED BY:

1576 NORTH BREWSTER ST., STE. 1C
ORANGE, CA 92667
PH. (714) 685-0123 FAX (714) 453-9892

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
LA54XC265C EDISON
BUENA VISTA
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)
 19001 1/2 TONNER CANYON ROAD
 BREA, CA 92822
 LOS ANGELES COUNTY

ISSUE DATE:

01/22/2013

ISSUED FOR:

100% CD

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSURE:

SHEET TITLE:

EQUIPMENT & ANTENNA LAYOUT PLAN

SHEET NUMBER: REVISION:

A-2 **3**

PLANS PREPARED BY:



1576 NORTH BREAVA ST., STE 1C
ORANGE CA 92667
PH. (714) 885-0123 FAX (714) 453-9892

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
LA54XC265C EDISON
BUENA VISTA
(FIRESTONE BOYSCOUT)
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)
19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY

ISSUE DATE:

01/22/2013

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

ELEVATIONS

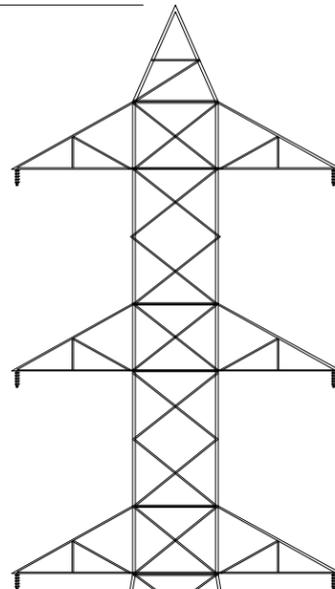
SHEET NUMBER:

A-3

REVISION:

3

(E) TOP OF EXISTING SCE TOWER
128'-0" AGL



1 (N) 'SPRINT' (1) RRH MOUNTED ON (N) PIPE (TYP. PER SECTOR)

2 (N) 'SPRINT' (1900 MHz) ANTENNA (SECTOR '2')

FUTURE RRH LOCATION (TYP. PER SECTOR)

(E) 'SPRINT' 2' MW DISH REMAIN

TOP OF (N) 'SPRINT' PANEL ANTENNA
40'-0"

CENTER OF (N) 'SPRINT' PANEL ANTENNA
37'-0"

CENTER OF (E) 'SPRINT' MW DISH
32'-0"

(E) 128' HIGH M24-T1 SCE LATTICE TOWER

(N) ANTENNA MOUNTING FRAME BY SCE, (TYP. PER SECTOR)

(E) TOWER CLIMBING LEG

(E) 'SPRINT' PPC CABINETS

(N) 'SPRINT' GPS ANTENNA

(N) FIBER CABINET MOUNTED ONTO (N) H-FRAME

TOP OF (N) GPS ANTENNA
10'-0"

GROUND LEVEL
0'-0" AGL

(E) SCE TOWER FOOTING

(E) COAX SHROUD BEYOND

(E) CHAIN LINK FENCE

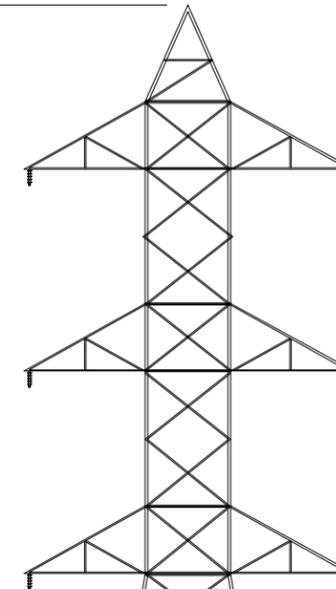
(N) 'SPRINT' 60ECV2 BATTERY CABINET

NOTE:
1. SCE TO DESIGN AND FABRICATE ANTENNA BRACKETS MAY DIFFER FROM DRAWING.
2. ANTENNA'S DIMENSION TO REFERENCE TOP OF CLIMBING LEG CONCRETE FOOTING.

SCALE
1/8"=1'-0"

2

(E) TOP OF EXISTING SCE TOWER
128'-0" AGL



(E) 'SPRINT' PANEL ANTENNAS (2 PER SECTOR)

(E) 'SPRINT' 2' MW DISH REMAIN

TOP OF (E) 'SPRINT' PANEL ANTENNAS
41'-0"

CENTER OF (E) 'SPRINT' PANEL ANTENNAS
39'-0"

CENTER OF (E) 'SPRINT' MW DISH
32'-0"

(E) 128' HIGH M24-T1 SCE LATTICE TOWER

(E) TOWER CLIMBING LEG

(E) 'SPRINT' GPS ANTENNA

(E) 'SPRINT' EQUIPMENT CABINETS

(E) CHAIN LINK FENCE

GROUND LEVEL
0'-0" AGL

(E) SCE TOWER FOOTING

(E) COAX SHROUD BEYOND

(E) 'SPRINT' PPC CABINETS

NOTE:
1. ANTENNA'S DIMENSION TO REFERENCE TOP OF CLIMBING LEG CONCRETE FOOTING.

SCALE
1/8"=1'-0"

1

EXISTING WEST ELEVATION

PLANS PREPARED BY:



PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
**LA54XC265C EDISON
BUENA VISTA
(FIRESTONE BOYSCOUT)
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)**
19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY

ISSUE DATE:

01/22/2013

ISSUED FOR:

100% CD

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

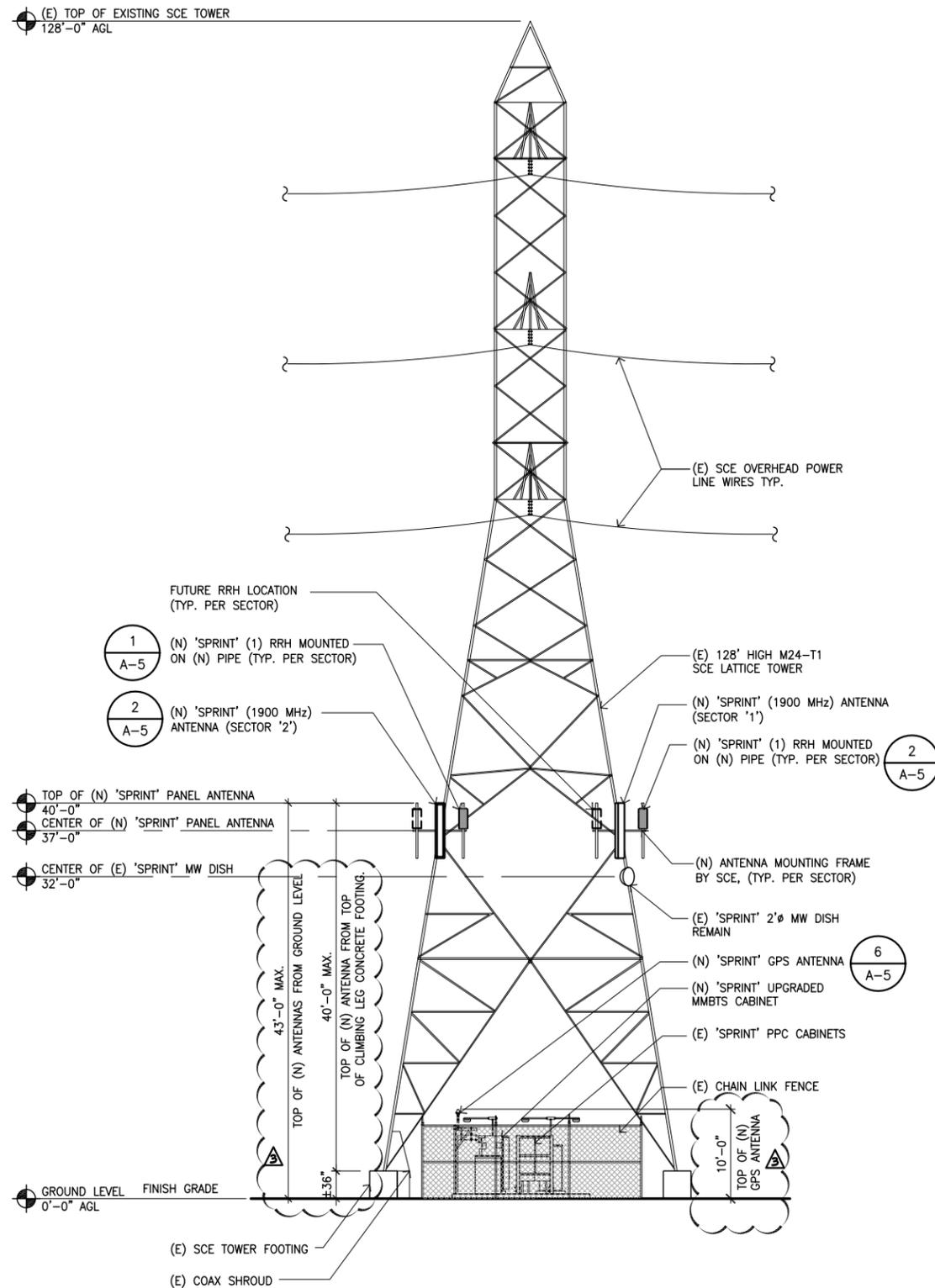
ELEVATIONS

SHEET NUMBER:

A-4

REVISION:

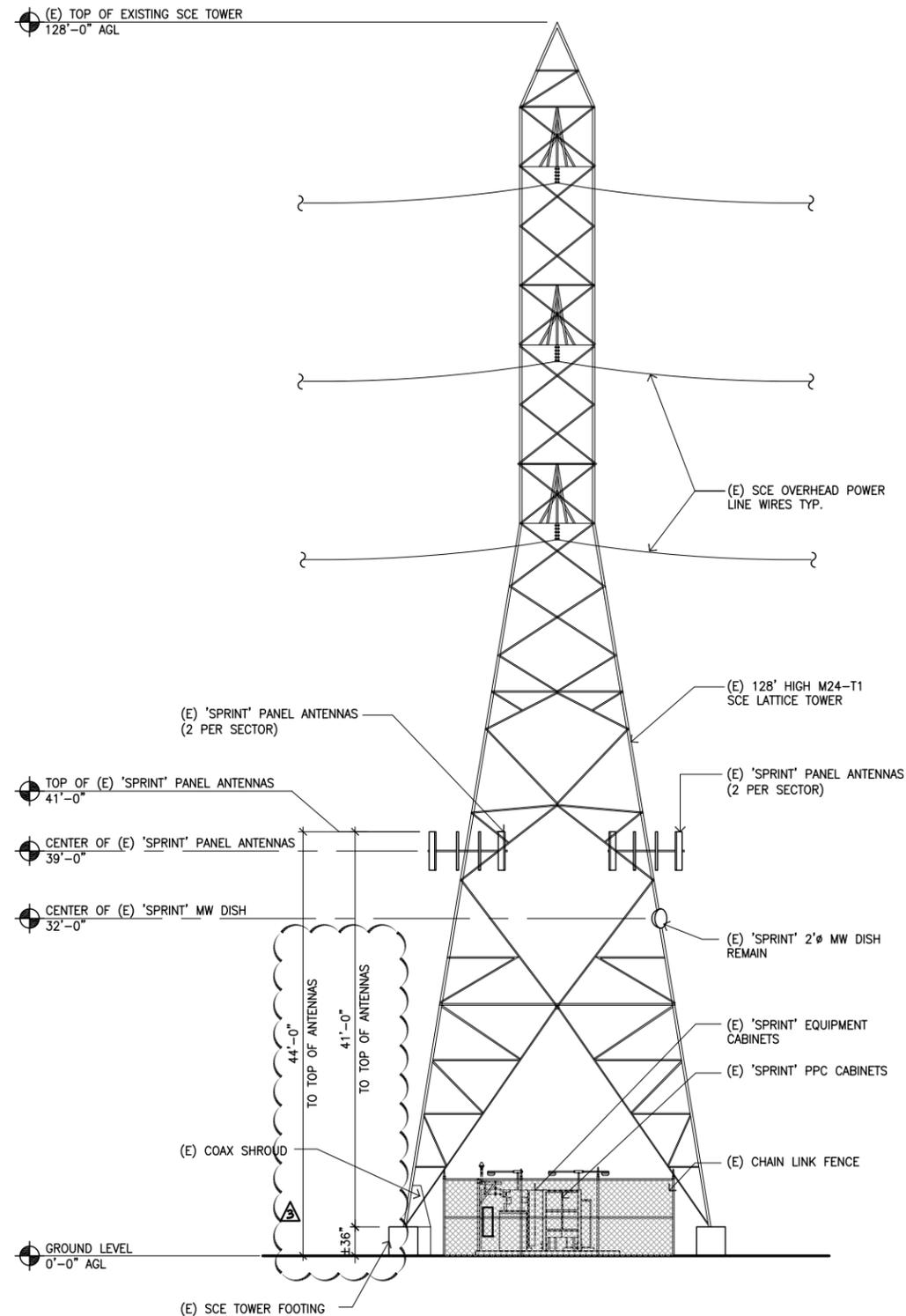
3



NOTE:
1. SCE TO DESIGN AND FABRICATE ANTENNA BRACKETS MAY DIFFER FROM DRAWING.
2. ANTENNA'S DIMENSION TO REFERENCE TOP OF CLIMBING LEG CONCRETE FOOTING.

FINAL NORTH ELEVATION

SCALE 1/8"=1'-0" 2



NOTE:
1. ANTENNA'S DIMENSION TO REFERENCE TOP OF CLIMBING LEG CONCRETE FOOTING.

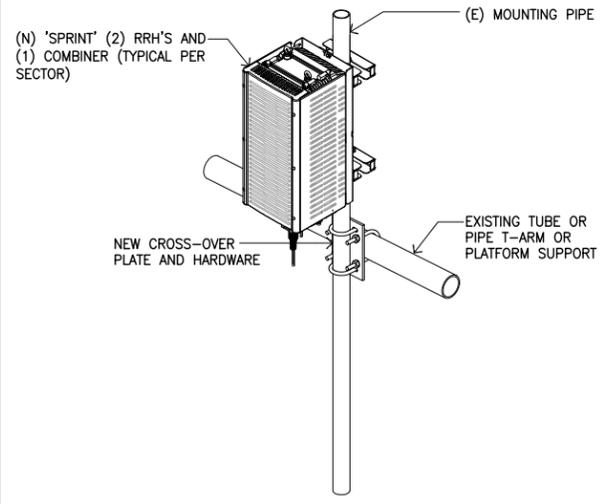
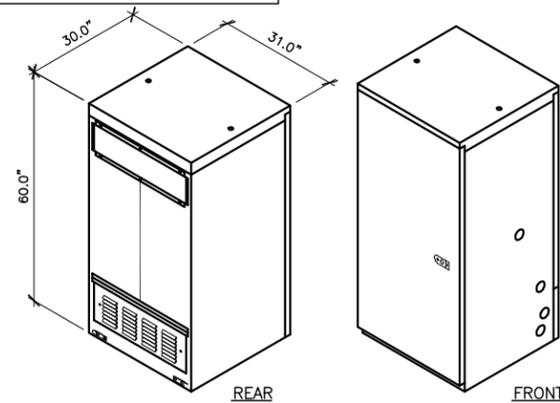
EXISTING NORTH ELEVATION

SCALE 1/8"=1'-0" 1

MANUFACTURER: ANDREW (COMMSCOPE)
MODEL: 60ECv2

CABINET DIMENSIONS:
HEIGHT: 60 in. (152.4 cm)
WIDTH: 31 in. (78.7 cm)
DEPTH: 30 in. (76.2 cm)
WEIGHT: 425 lbs.

CABINET OPERATING TEMPERATURE RANGE:
-40°C TO 46°C



PLANS PREPARED BY:

1576 NORTH BATAVA ST., STE 1C
ORANGE CA 92667
PH. (714) 885-0123 FAX (714) 453-9892

PROJECT INFORMATION:

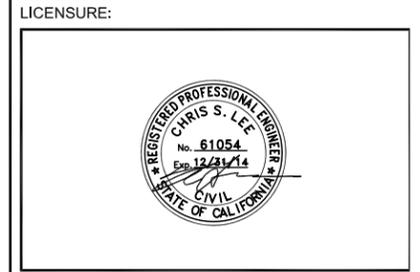
NETWORK VISION MMBTS LAUNCH
**LA54XC265C EDISON
BUENA VISTA
(FIRESTONE BOYSCOUT)
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)**
19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY

ISSUE DATE:
01/22/2013

ISSUED FOR:
100% CD

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET



SHEET TITLE:
DETAILS

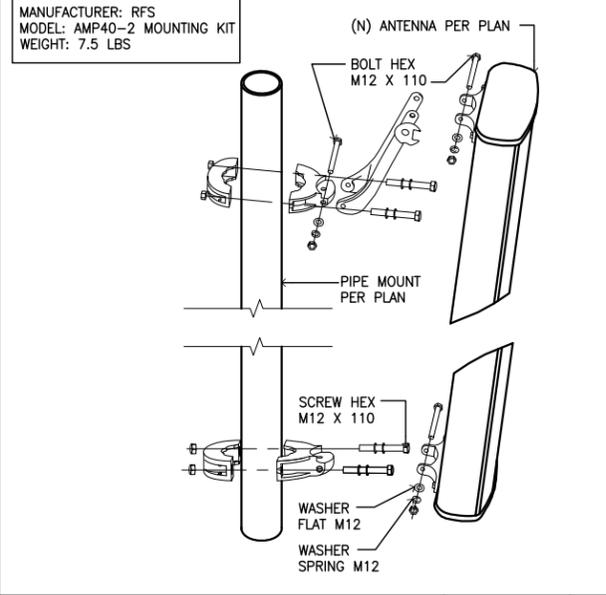
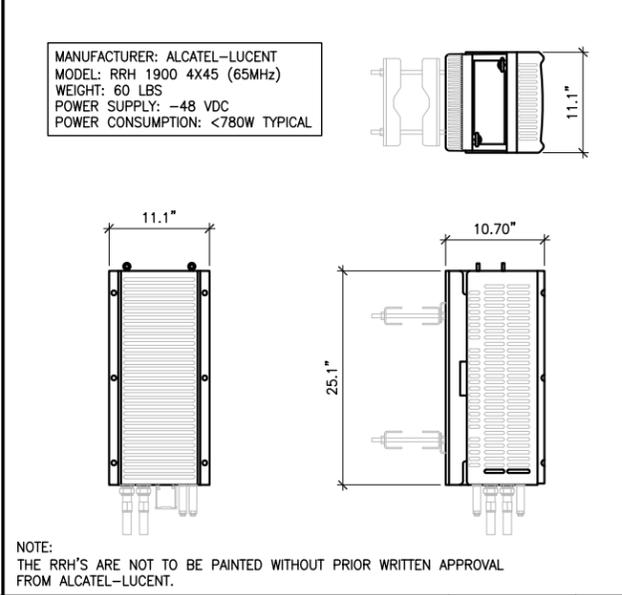
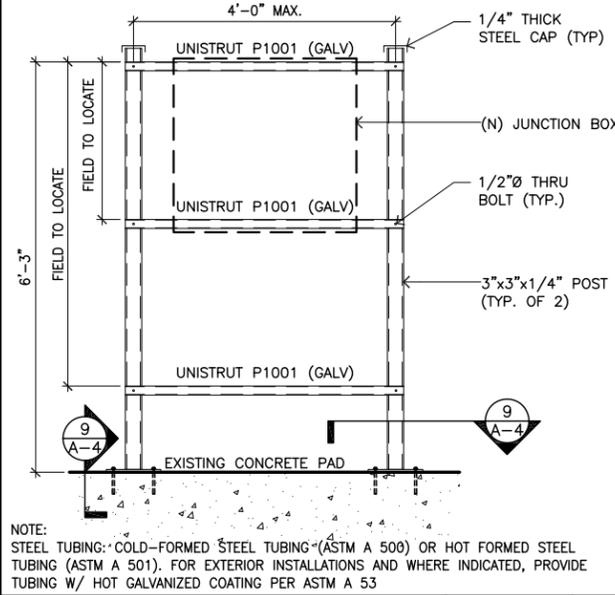
SHEET NUMBER: **A-5** REVISION: **3**

NOT USED SCALE: N.T.S. 10

BATTERY BACK-UP CAB SCALE: N.T.S. 7

NOT USED SCALE: N.T.S. 4

RRH MOUNT DETAIL SCALE: N.T.S. 1

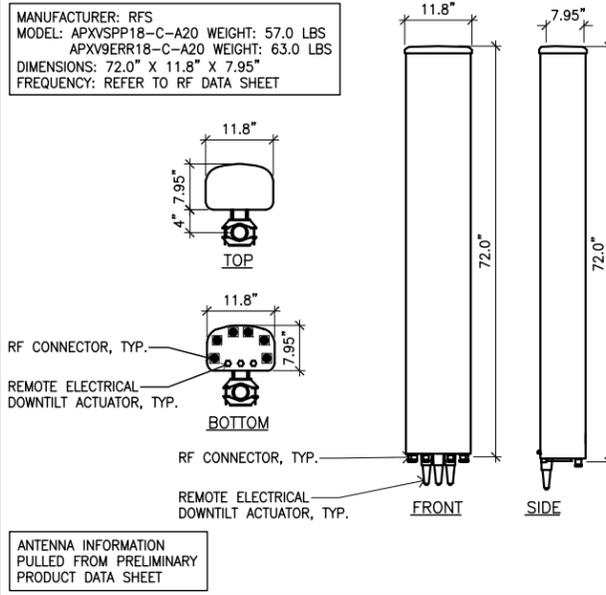
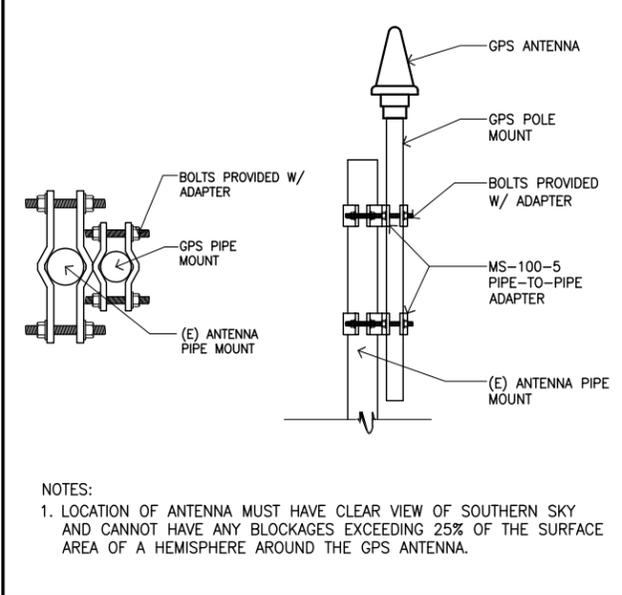
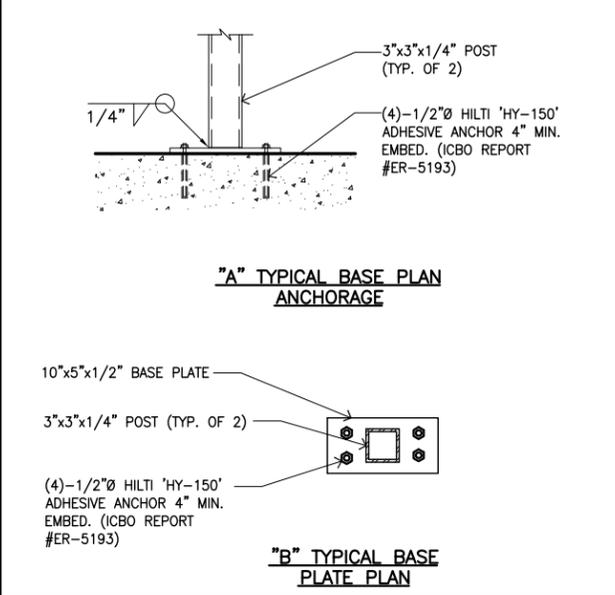


NOT USED SCALE: N.T.S. 11

H-FRAME DETAIL SCALE: N.T.S. 8

1900MHz RRH SPEC. SCALE: N.T.S. 5

ANTENNA MOUNT SCALE: N.T.S. 2



NOT USED SCALE: N.T.S. 12

BASE PLATE DETAIL SCALE: N.T.S. 9

GPS ANTENNA MOUNT SCALE: N.T.S. 6

RFS ANTENNA SPEC. SCALE: N.T.S. 3

1. Appendix A - Coaxial Cable Color Scheme

All cables shall be marked at the top and bottom with 2" colored tape, stencil tag colored tape, or colored heat shrink tubing. Colored tape may be obtained from Graybar Electronic. UV stabilized tape or heat shrink are preferred. The first ring shall be closest to the end of the cable, and 1" space between each ring. The cable color code shall be applied in accordance to table 1-1. Table 1-1 only shows 3 sectors but additional sectors are easily supported by adding the appropriate number of colored rings to the cable color code.

After the cable color code is applied the frequency color code, table 1-2, must be applied for the specific frequency band in use on a given line. A 2" gap shall separate the cable color code from the frequency color code. The 2" color rings for the frequency code shall be placed next to each other with no spaces.

Examples of the application of the cable and frequency color codes are shown in figure 1-1 and 1-2. Wrap 2" colored tape a minimum of 3 times around the circumference of the coax, keeping the tape in the same area as much as possible. This will allow the removal of tape that will be faded or discolored due to weather.

Table 1-1: Coaxial Cable Color Code

Sector	Cable	First Ring	Second Ring	Third Ring
1 Alpha	1	Green	No Tape	No Tape
	1	2 Blue	No Tape	No Tape
	1	3 Brown	No Tape	No Tape
	1	4 White	No Tape	No Tape
	1	5 Red	No Tape	No Tape
	1	6 Slate	No Tape	No Tape
	1	7 Purple	No Tape	No Tape
	1	8 Orange	No Tape	No Tape
2 Beta	1	Green	Green	No Tape
	2	Blue	Blue	No Tape
	2	Brown	Brown	No Tape
	2	White	White	No Tape
	2	Red	Red	No Tape
	2	Slate	Slate	No Tape
	2	Purple	Purple	No Tape
	2	Orange	Orange	No Tape
3 Gamma	1	Green	Green	Green
	3	Blue	Blue	Blue
	3	Brown	Brown	Brown
	3	White	White	White
	3	Red	Red	Red
	3	Slate	Slate	Slate
	3	Purple	Purple	Purple
	3	Orange	Orange	Orange

Table 1-2: Frequency Color Code

Frequency	Indicator	ID
800 #1	Yellow	Green
1900 #1	Yellow	Red
1900 #2	Yellow	Brown
Reserved	Yellow	Blue
Reserved	Yellow	Slate
Reserved	Yellow	Orange
Reserved	Yellow	White
1500 #1	Yellow	Purple

Figure 1-1: Coax Cable Color Code Example

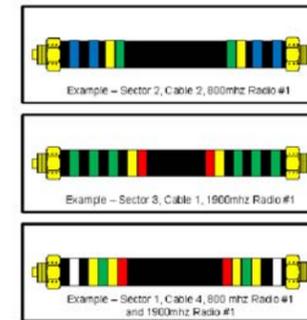
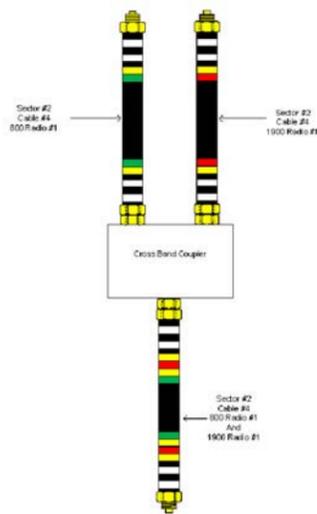


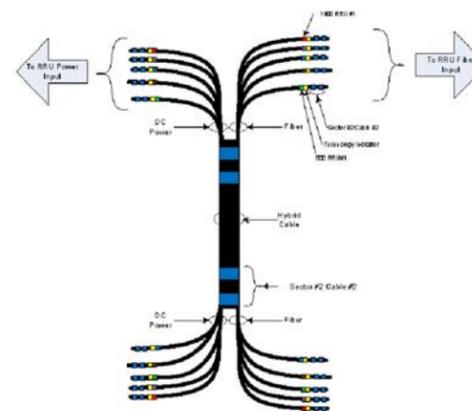
Figure 1-2: Coax Cable Color Coding Cross Band Coupler Example



2. Appendix B - Hybrid Cable Color Scheme

Hybrid cable will be marked in a similar manner as coax cable described in the previous section. The main "trunk" of the hybrid cable will NOT be marked with the frequency code as the hybrid cable can contain all frequencies. The individual power pairs and fiber cables will be labeled with both the cable AND frequency markings. See Figure 2-1 as one example. The fiber and copper counts are just a representative of one possible configuration. Other fiber and power count combinations are possible.

Figure 2-1: Hybrid Cable Color Code Example



3. Appendix C - RRU and Combiner Cabling

Coax jumpers connecting between remote radio units, combiners, and antenna at the tower top will not use a color code labeling scheme. These jumpers will use an appropriate weather proof label on both ends near the connectors. The labeling scheme will be determined by the OEM installation team. Each label will uniquely identify each jumper/cable.

PLANS PREPARED BY:



1576 NORTH BRAWLEY ST., STE. 1C
ORANGE, CA 92667
PH: (714) 885-0123 FAX: (714) 455-9892

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
**LA54XC265C EDISON
BUENA VISTA
(FIRESTONE BOYSCOUT)
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)
19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY**

ISSUE DATE:

01/22/2013

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDS	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

**CABLE COLOR CODING
REQUIREMENTS**

SHEET NUMBER:

REVISION:

A-6

3

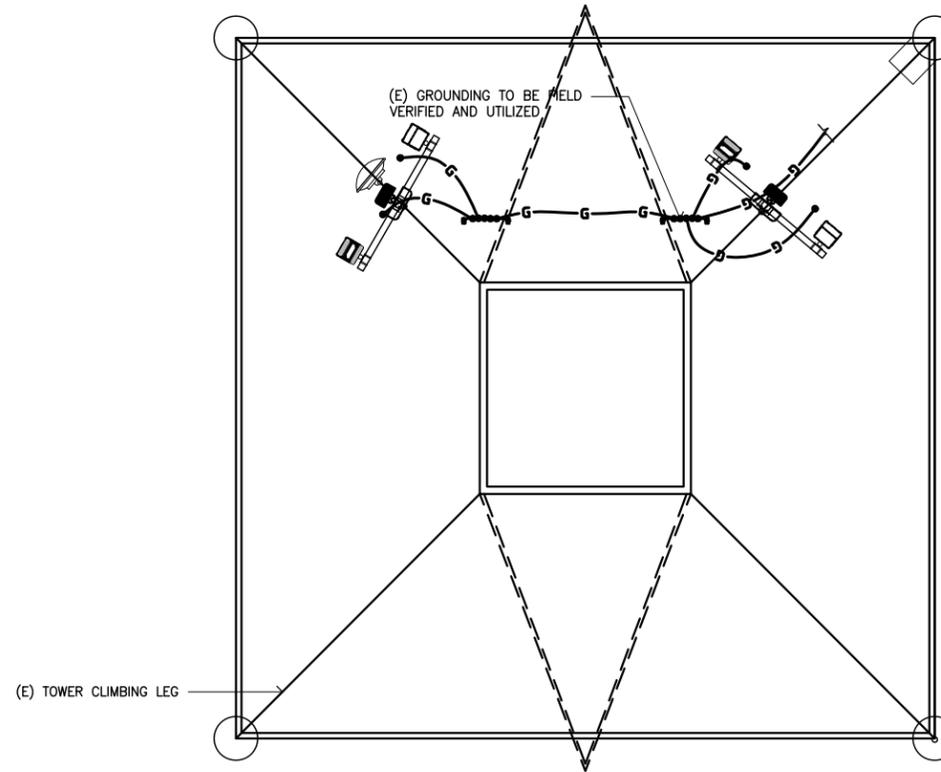


SPRINT PCS
310 COMMERCE
IRVINE, CALIFORNIA 92602

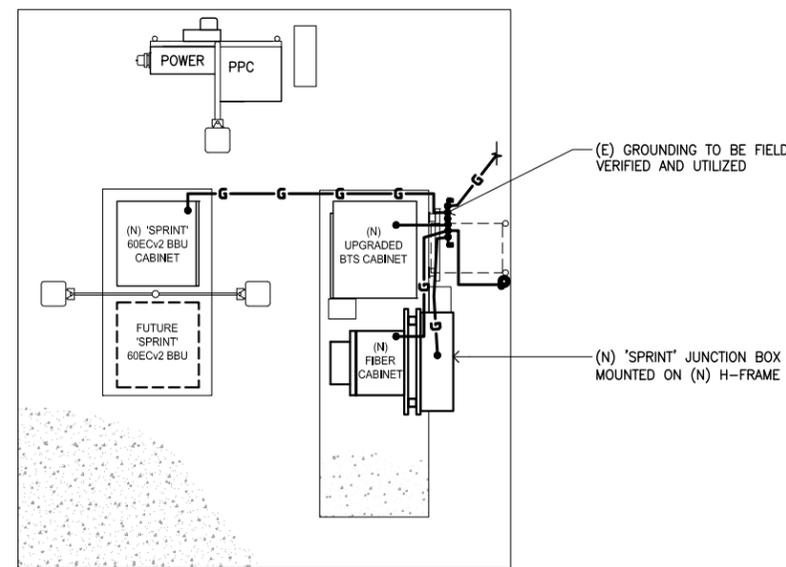


GROUNDING SYMBOLS

- CHEMICAL GROUND ROD
- GROUND ROD
- GROUND ROD W/INSPECTION COVER
- MECHANICAL CONNECTION
- COMPRESSION TYPE CONNECTION
- GROUNDING WIRE
- EXOTHERMIC WELD (CADWELD/THERMOWELD)



FINAL ANTENNA GROUNDING PLAN



FINAL EQUIPMENT GROUNDING PLAN

PLANS PREPARED BY:



1576 NORTH BREAVA ST., STE 1C
ORANGE CA 92667
PH. (714) 885-0123 FAX (714) 453-9892

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
**LA54XC265C EDISON
BUENA VISTA
(FIRESTONE BOYSCOUT)
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)**
19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY

ISSUE DATE:

01/22/2013

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

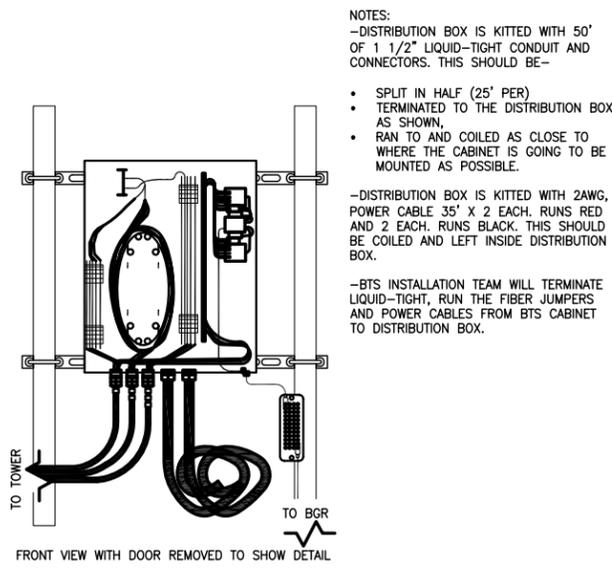
GROUNDING PLAN

SHEET NUMBER:

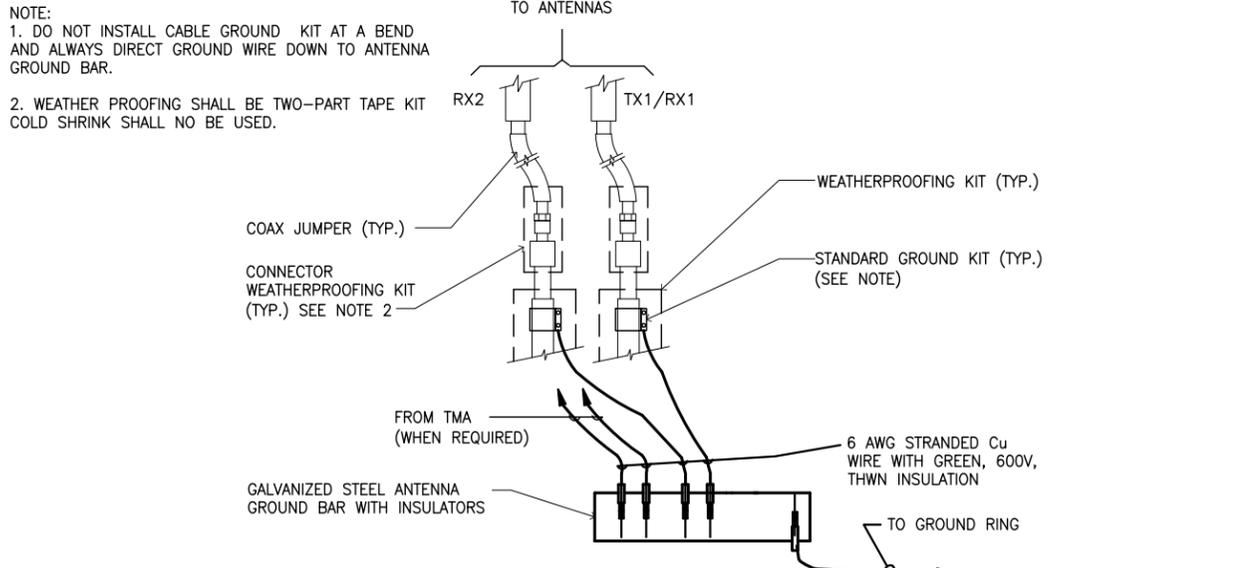
E-1

REVISION:

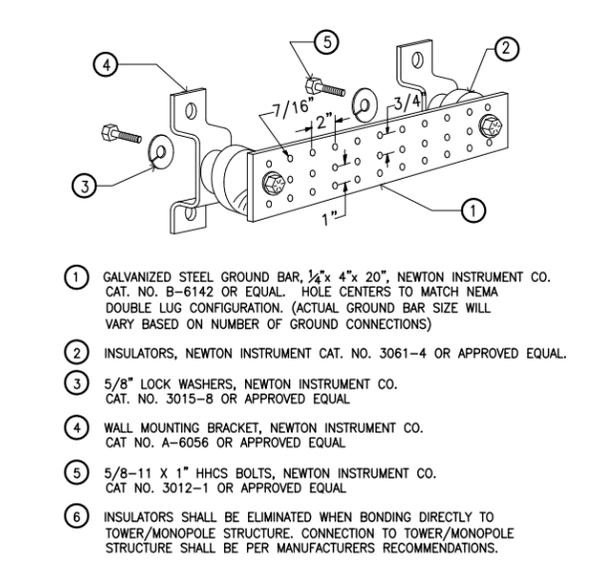
3



NOTES:
 -DISTRIBUTION BOX IS KITTED WITH 50' OF 1 1/2" LIQUID-TIGHT CONDUIT AND CONNECTORS. THIS SHOULD BE -
 • SPLIT IN HALF (25' PER)
 • TERMINATED TO THE DISTRIBUTION BOX AS SHOWN.
 • RAN TO AND COILED AS CLOSE TO WHERE THE CABINET IS GOING TO BE MOUNTED AS POSSIBLE.
 -DISTRIBUTION BOX IS KITTED WITH 2AWG, POWER CABLE 35' X 2 EACH. RUNS RED AND 2 EACH. RUNS BLACK. THIS SHOULD BE COILED AND LEFT INSIDE DISTRIBUTION BOX.
 -BTS INSTALLATION TEAM WILL TERMINATE LIQUID-TIGHT, RUN THE FIBER JUMPERS AND POWER CABLES FROM BTS CABINET TO DISTRIBUTION BOX.



NOTE:
 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
 2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT COLD SHRINK SHALL NO BE USED.



- 1 GALVANIZED STEEL GROUND BAR, 1/2" x 4" x 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
- 2 INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL.
- 3 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR APPROVED EQUAL.
- 4 WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6056 OR APPROVED EQUAL.
- 5 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1 OR APPROVED EQUAL.
- 6 INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

DISTRIBUTION BOX

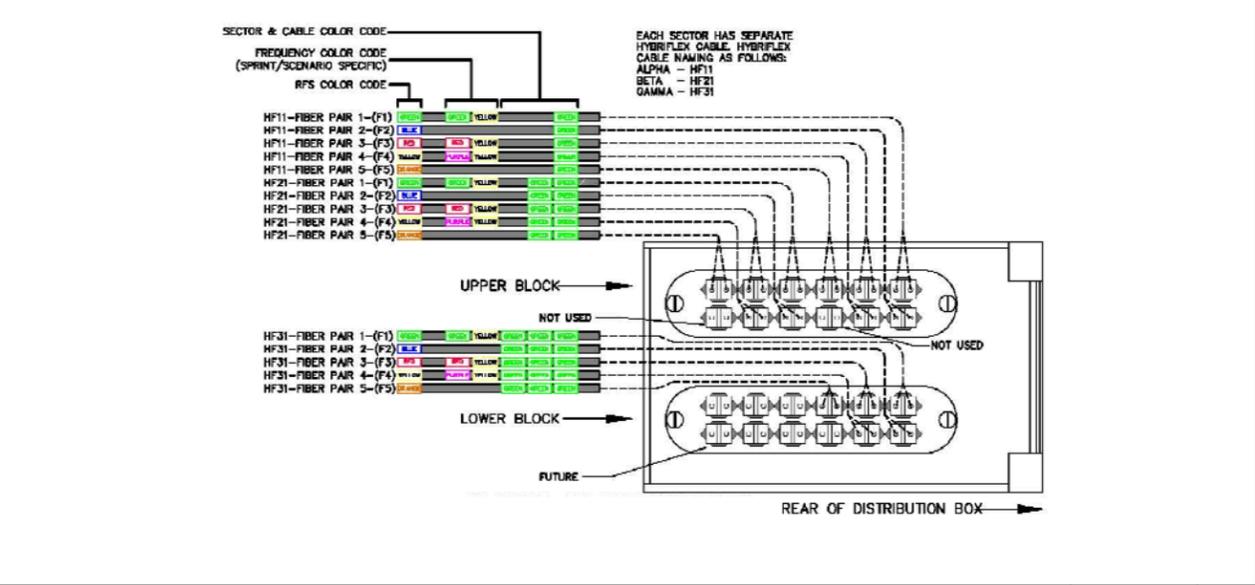
SCALE: N.T.S. 7

GROUND CABLE CONNECTION

SCALE: N.T.S. 4

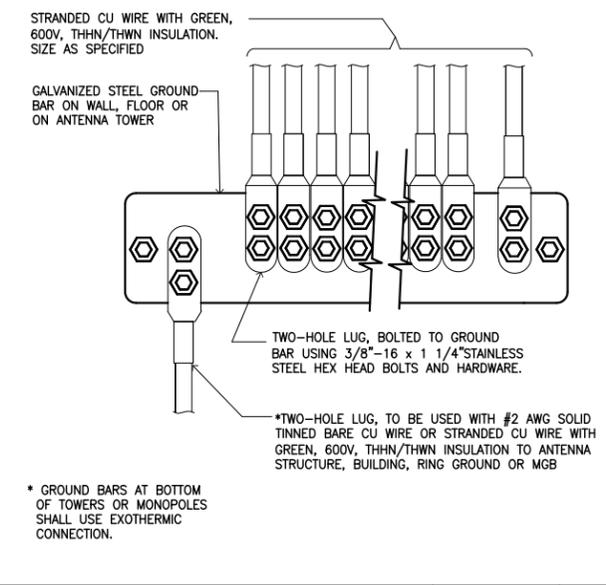
GROUND BAR

SCALE: N.T.S. 1



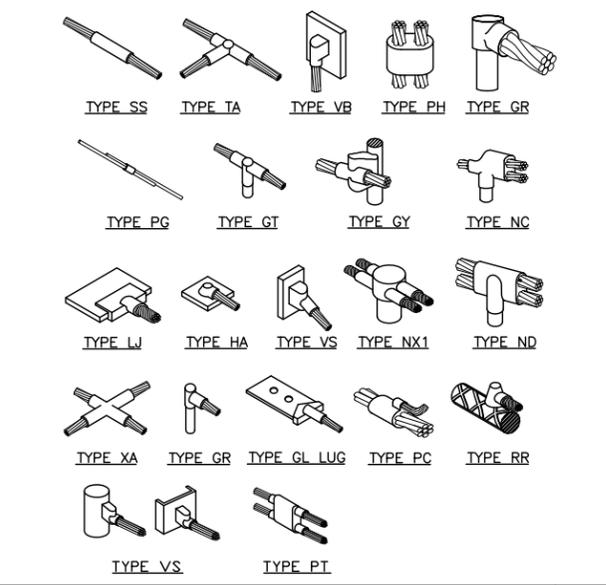
FIBER CONNECTION DETAIL

SCALE: N.T.S. 8



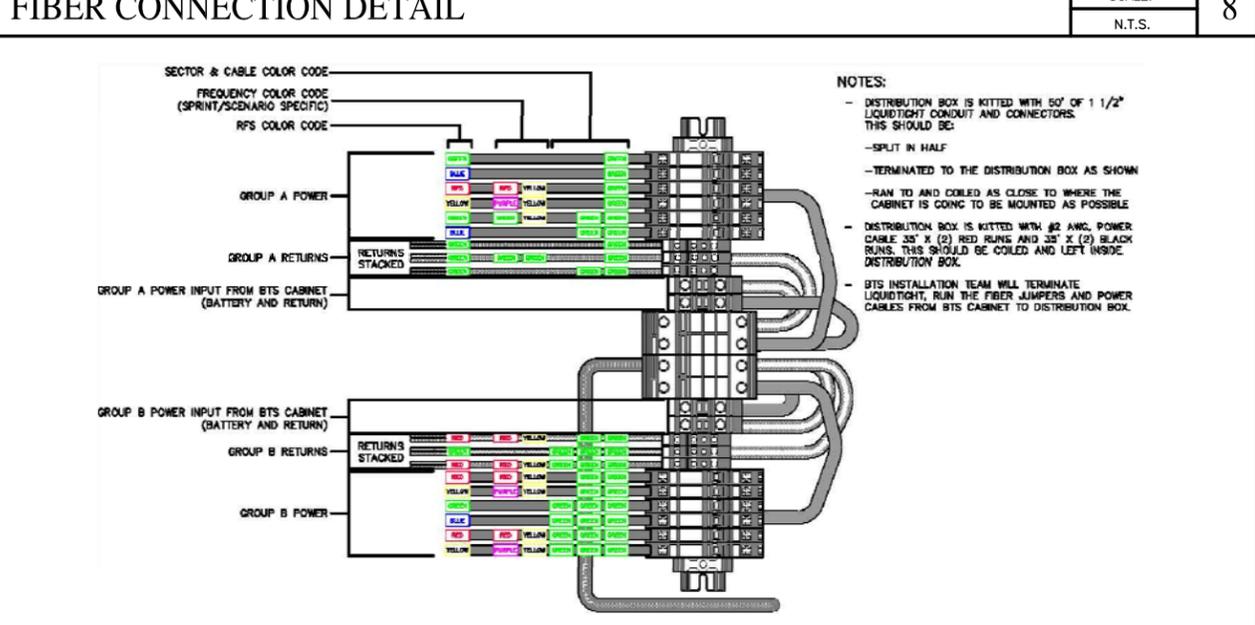
GROUND WIRE INSTALLATION

SCALE: N.T.S. 5



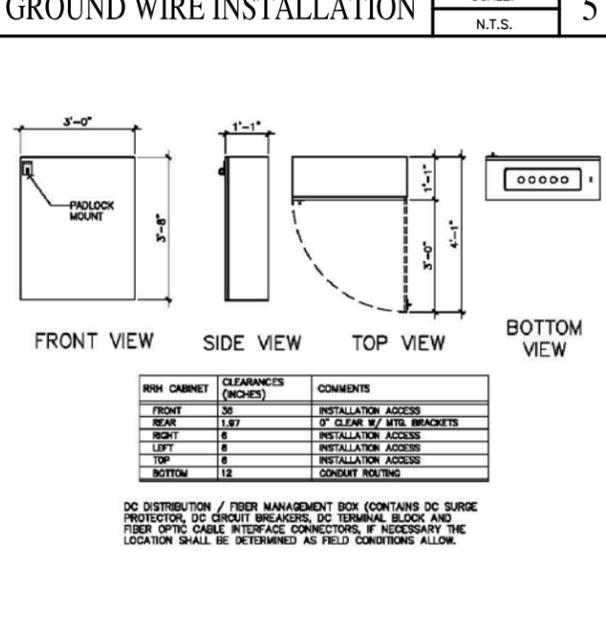
CADWELL GROUNDING CONNECTIONS

SCALE: 2



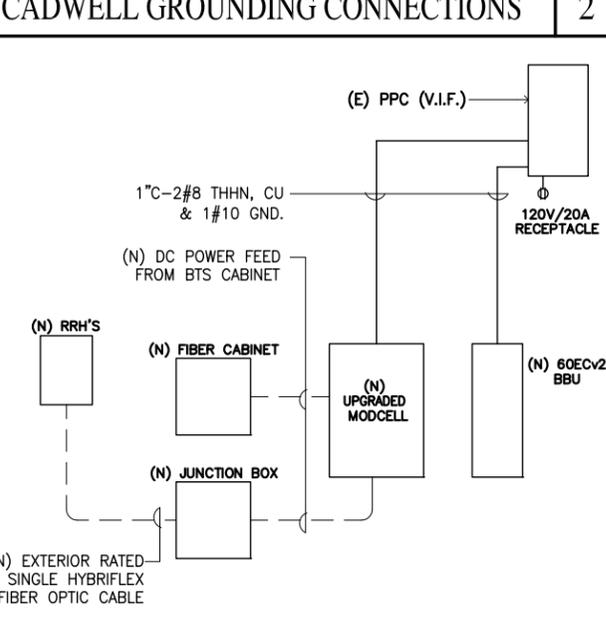
DC CONNECTION DETAIL

SCALE: N.T.S. 9



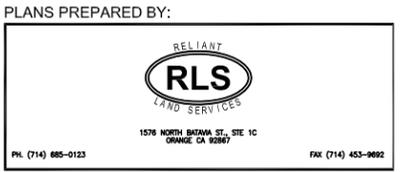
FIBER DISTRIBUTION BOX

SCALE: N.T.S. 6



SINGLE LINE DIAGRAM

SCALE: N.T.S. 3



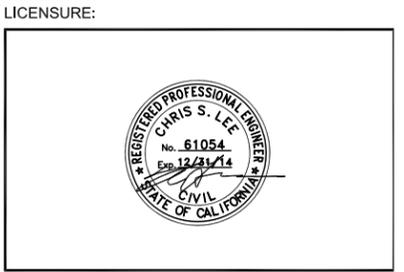
PLANS PREPARED BY:
 PROJECT INFORMATION:
 NETWORK VISION MMBTS LAUNCH
LA54XC265C EDISON
BUENA VISTA
(FIRESTONE BOYSCOUT)
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)
 19001 1/2 TONNER CANYON ROAD
 BREA, CA 92822
 LOS ANGELES COUNTY

ISSUE DATE:
01/22/2013

ISSUED FOR:
100% CD

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER: **E-2** REVISION: **3**



(E) POLE



RUN FROM POLE TO LEASE AREA



OVERALL SITE PHOTO



-48 VDC POWER SOURCE MM-BTS CABINET



EXISTING GROUND BAR



NEW FIBER EQUIPMENT LOCATION



PLANS PREPARED BY:



1576 NORTH BREAVA ST., STE 1C
ORANGE CA 92667
PH. (714) 885-0123 FAX (714) 455-9892

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
**LA54XC265C EDISON
BUENA VISTA
(FIRESTONE BOYSCOUT)
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)**
19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY

ISSUE DATE:

01/22/2013

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

FIBER SITE PHOTOS

SHEET NUMBER:

REVISION:

AAV-0

3

PLANS PREPARED BY:



1576 NORTH BAZOVA ST., STE 1C
ORANGE CA 92667
PH: (714) 885-0123 FAX: (714) 453-9892

PROJECT INFORMATION:

NETWORK VISION MMBTS LAUNCH
**LA54XC265C EDISON
BUENA VISTA
(FIRESTONE BOYSCOUT)
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)**
19001 1/2 TONNER CANYON ROAD
BREA, CA 92822
LOS ANGELES COUNTY

ISSUE DATE:

01/22/2013

ISSUED FOR:

100% CD

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

LICENSURE:



SHEET TITLE:

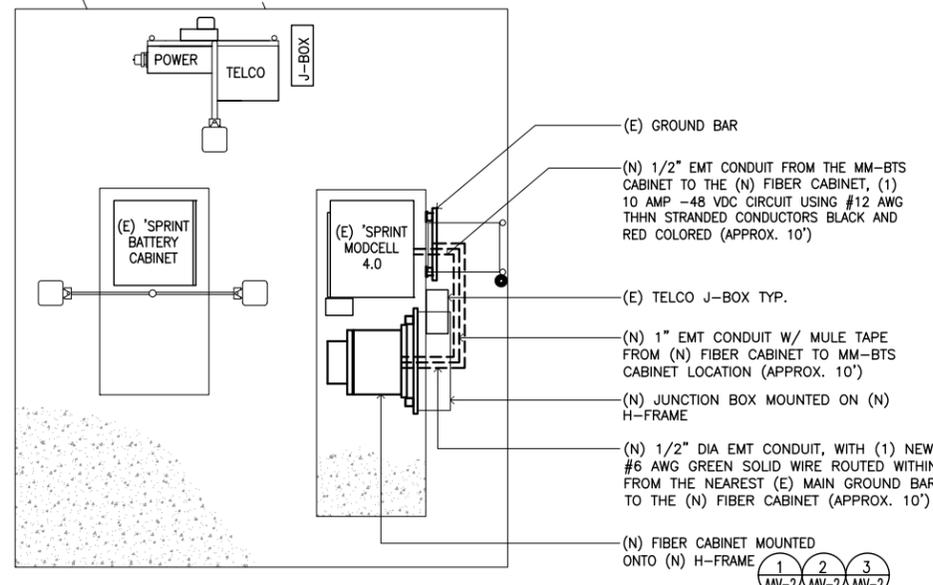
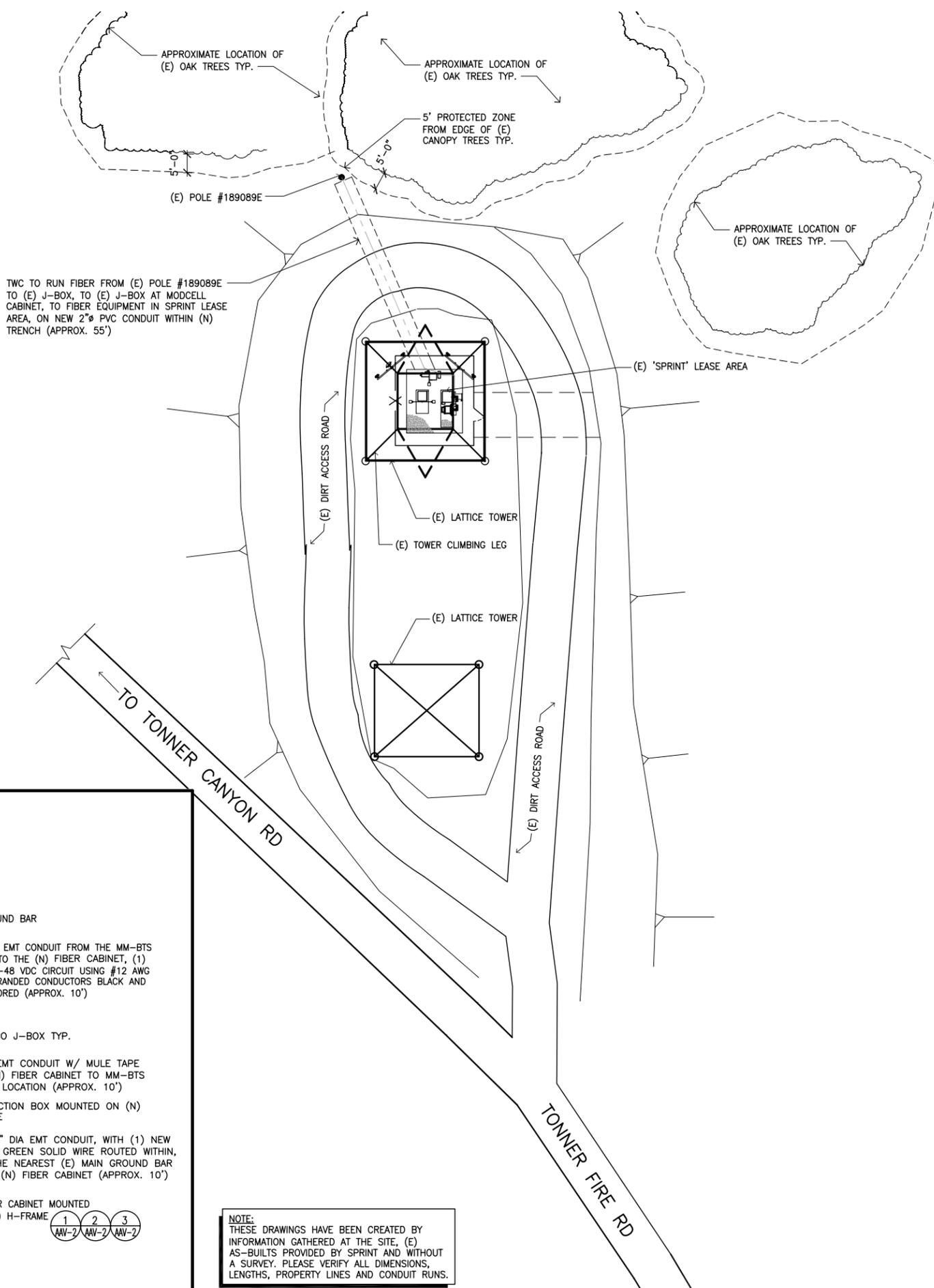
FIBER SITE PLAN

SHEET NUMBER:

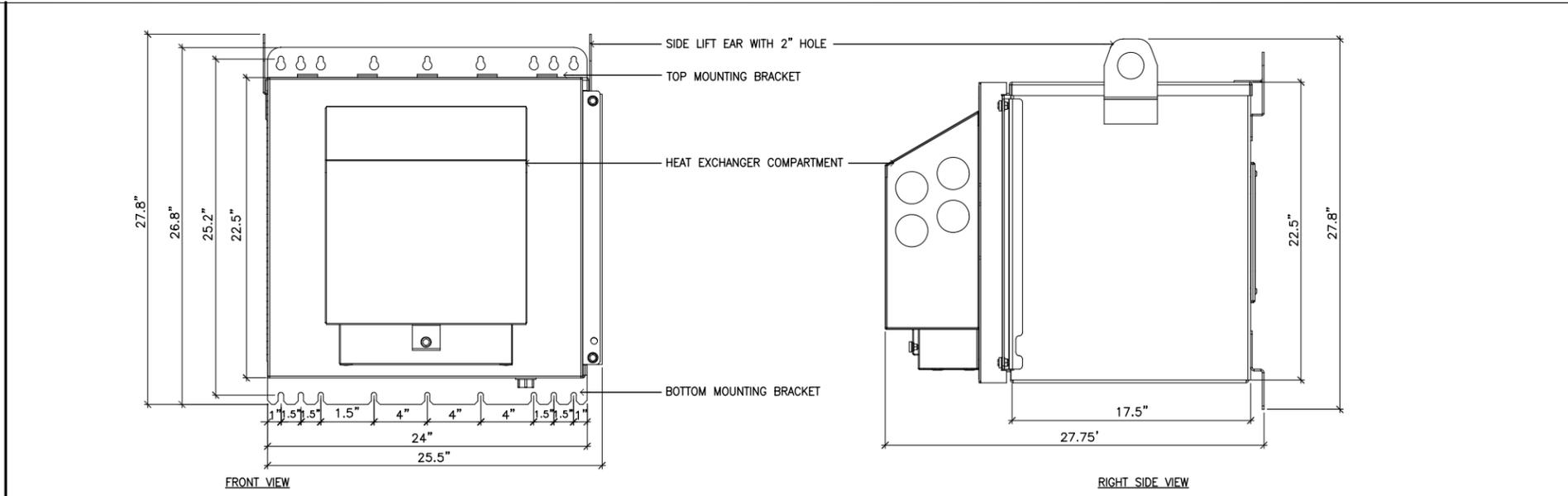
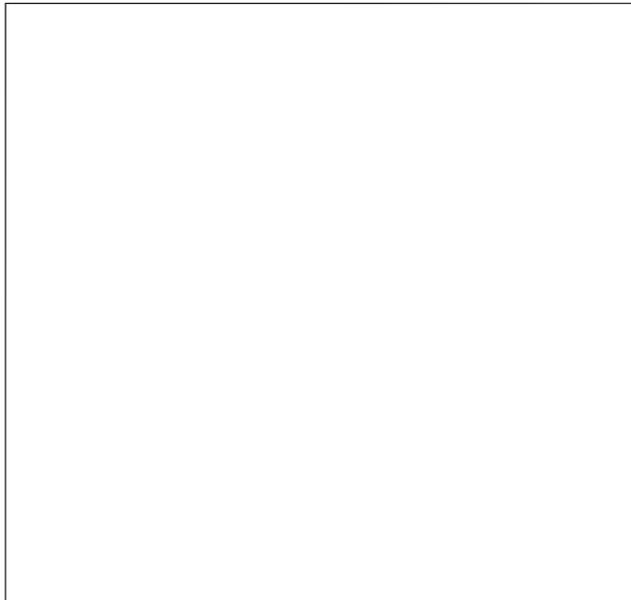
AAV-1

REVISION:

3



NOTE:
THESE DRAWINGS HAVE BEEN CREATED BY INFORMATION GATHERED AT THE SITE, (E) AS-BUILTS PROVIDED BY SPRINT AND WITHOUT A SURVEY. PLEASE VERIFY ALL DIMENSIONS, LENGTHS, PROPERTY LINES AND CONDUIT RUNS.



NOT USED

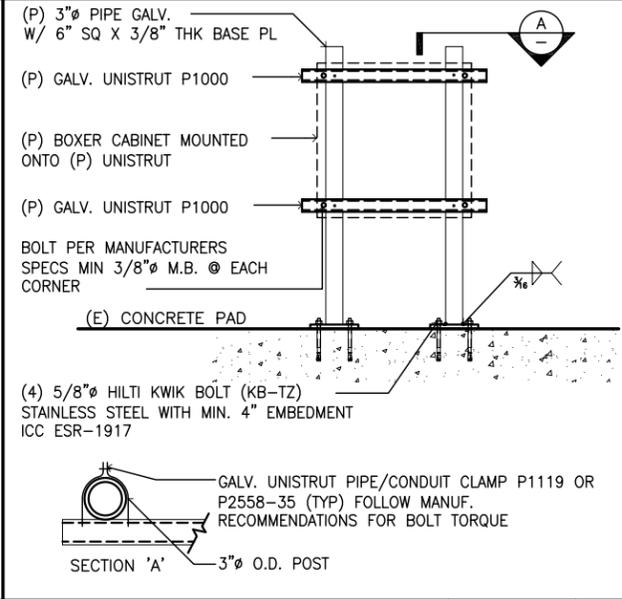
SCALE: N.T.S. 8

BOXER CABINET SPECIFICATIONS

SCALE: N.T.S. 1



(P) 3" PIPE GALV. W/ 6" SQ X 3/8" THK BASE PL
 (P) GALV. UNISTRUT P1000
 (P) BOXER CABINET MOUNTED ONTO (P) UNISTRUT
 (P) GALV. UNISTRUT P1000
 BOLT PER MANUFACTURERS SPECS MIN 3/8" M.B. @ EACH CORNER
 (E) CONCRETE PAD
 (4) 5/8" HILTI KWIK BOLT (KB-TZ) STAINLESS STEEL WITH MIN. 4" EMBEDMENT ICC ESR-1917
 GALV. UNISTRUT PIPE/CONDUIT CLAMP P1119 OR P2558-35 (TYP) FOLLOW MANUF. RECOMMENDATIONS FOR BOLT TORQUE
 SECTION 'A' 3" O.D. POST



MANUFACTURER: WESTELL
 MODEL: BOXER BXM1019 OUTDOOR
 DIMENSIONS: 24" W X 22.5" H X 27.75" D
 WEIGHT: APPROX. 70 LBS.
 AC DUPLEX OUTLET (INSIDE)
 GROUND POSTS
 INTERIOR FANS
 DOOR LATCH

NOT USED

SCALE: N.T.S. 9

NOT USED

SCALE: N.T.S. 6

SCALE: N.T.S. 4

SCALE: N.T.S. 2



NOT USED

SCALE: N.T.S. 10

NOT USED

SCALE: N.T.S. 7

SCALE: N.T.S. 5

SCALE: N.T.S. 3



PLANS PREPARED BY:

1576 NORTH BREAVA ST., STE 1C
 ORANGE CA 92667
 PH. (714) 885-0123 FAX (714) 453-9892

PROJECT INFORMATION:

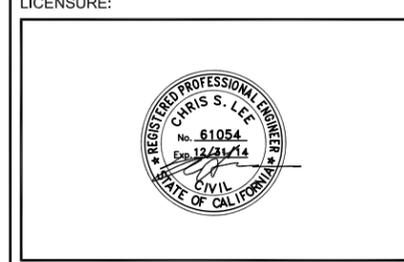
NETWORK VISION MMBTS LAUNCH
LA54XC265C EDISON
BUENA VISTA
M24-T1 MIRA
LOMA-WALNUT 220kv
(BUILT 1962)
 19001 1/2 TONNER CANYON ROAD
 BREA, CA 92822
 LOS ANGELES COUNTY

ISSUE DATE:
01/22/2013

ISSUED FOR:
100% CD

REVISIONS			
REV.	DATE	DESCRIPTION	INITIALS
A	05/30/12	90% CD	BR
1	06/27/12	100% CD	BR
2	11/09/12	UPDATED PER ZDs	BC
3	01/22/13	PC COMMENTS	BC

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



SHEET TITLE:
FIBER DETAILS

SHEET NUMBER: **AAV-2** REVISION: **3**