

Greetings to all. The next meeting of the San Pasqual Lake Hodges Planning Group will be Thursday November 1, 2012, at 7:00 pm. The meeting will be held in the Park Training Room building at the Safari Park. All persons attending the meeting should use the service entrance located off of W Zoo Rd / Rockwood Rd and check in with the Security Office. I am expecting that this will be a long meeting as we have a full agenda. I am hoping for everyone's cooperation so that we can still finish the meeting by 9:00 pm. The agenda is as follows:

Call to order and salute to the flag

Introductions

Public comment

Review and approval of minutes

Police report

Old business

 Eye Gnat update

 San Pasqual Academy review

 We will have four representatives from the County Health and Human Agency to answer questions, as well as Captain Mike Barnett of the San Diego Sherriff's office providing information, and answering questions

 Requirements to vacate a road, Ysabel Creek Rd. please refer to:

<http://docs.sandiego.gov/municode/MuniCodeChapter12/Ch12Art05Division10.pdf>

New business

 A presentation on the City of San Diego's Water Purification Demonstration

 Project that is underway to examine the use of advanced water purification technology on high quality recycled waste water

 T Mobile presentation of a cell tower at the Safari Park

 Lease discussion for Big Trees Nursery

Reports from City Staff

 John Ly representing Councilman Carl DeMaio

 Summary of progress on Parkland dedication lands

 Dave Martens representing City Real Estate Assets Department

 Brian Schoenfisch, City Planning Department

Announcement of following meeting date and agenda

Adjournment



SITE PRIOR TO INSTALLATION

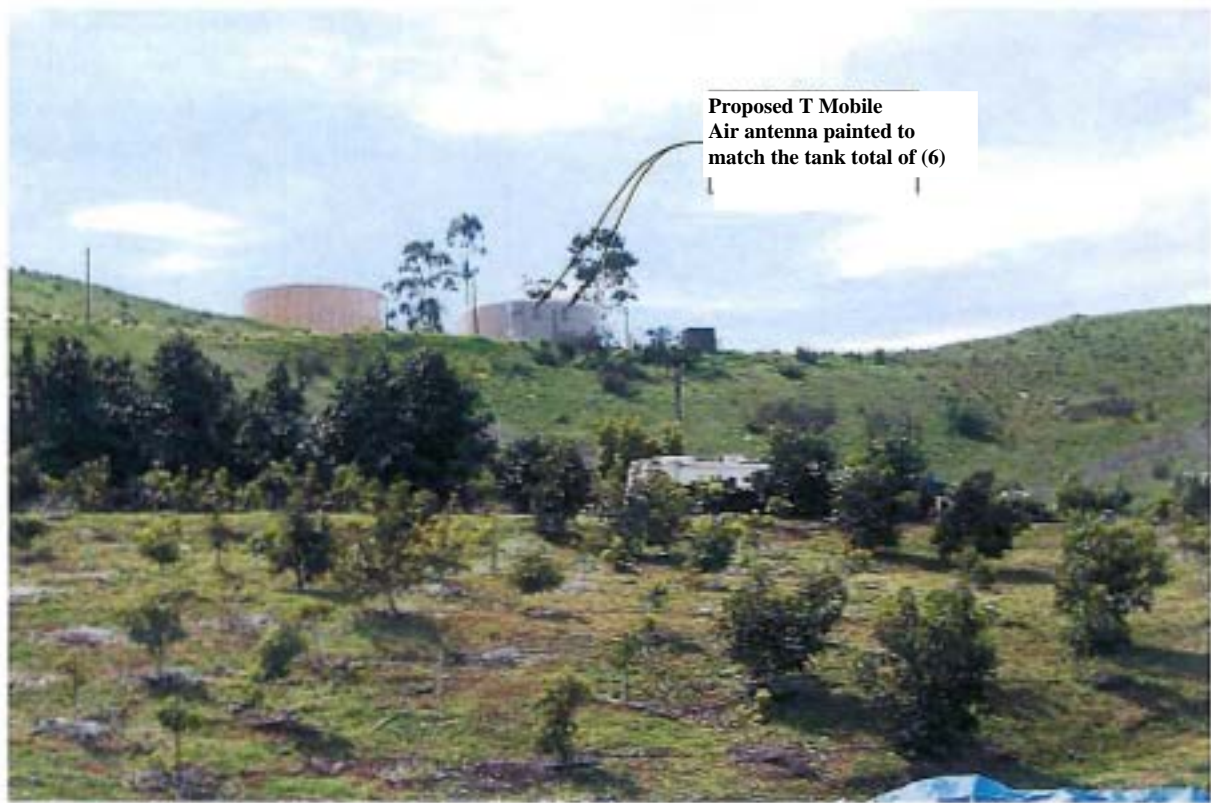
SCR Simulations

WILD ANIMAL PARK

15500 San Pasqual Valley Pl.
Escondido, CA 92027



VICINITY MAP



Proposed T Mobile
Air antenna painted to
match the tank total of (6)

SITE AFTER INSTALLATION

Looking south west toward subject property

T-Mobile
stick together

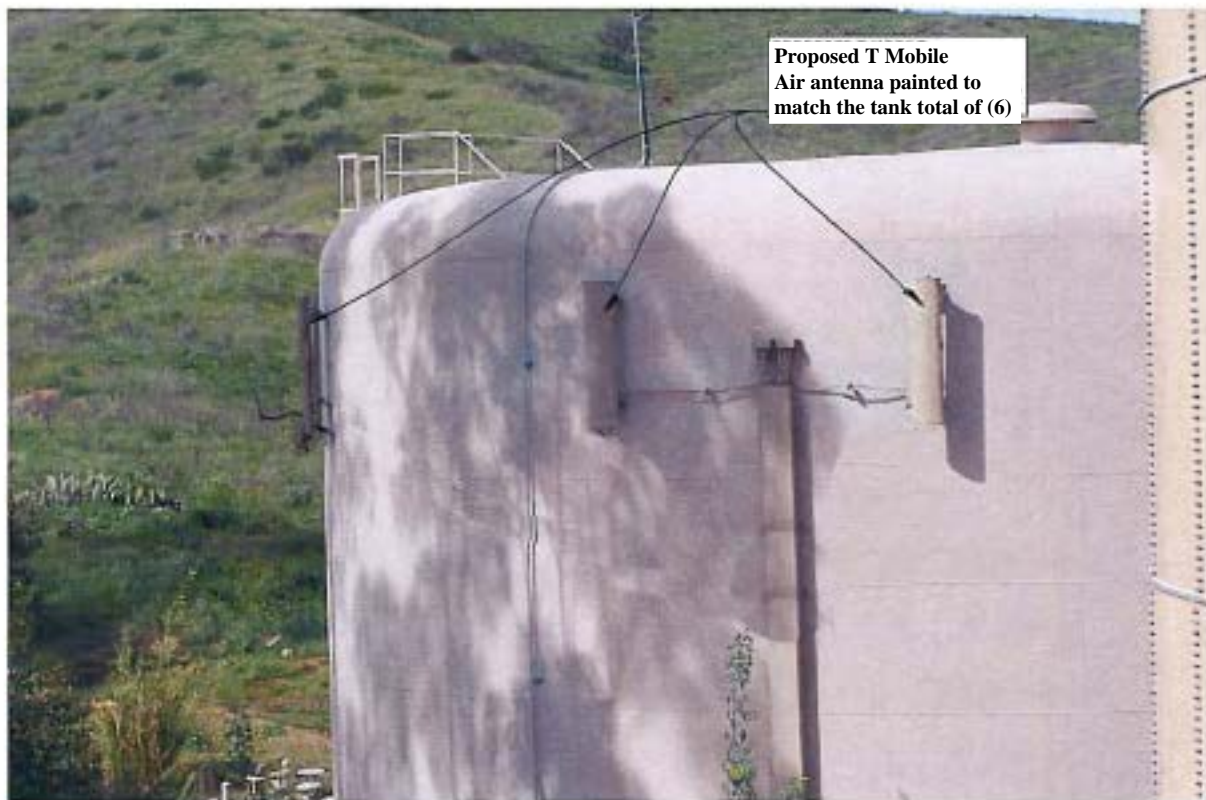
16180 Telelink Court, 3rd Floor
San Diego, California 92121
Phone: (619) 334-4116
Fax: (619) 334-0150

SD06230A

View 2 of 2



SITE PRIOR TO INSTALLATION



SITE AFTER INSTALLATION

Looking west toward subject property

WILD ANIMAL PARK

15500 San Pasqual Valley Rd.
Escondido, CA 92027



VICINITY MAP

T-Mobile
stick together

1000 T-Mobile Court, 3rd Floor
San Diego, California 92121
Phone: 619-334-4116
Fax: (619) 334-6158

SD06230A

View 1 of 2

T-Mobile

WILD ANIMAL PARK SD06230A

15500 SAN PASQUAL VALLEY RD.
ESCONDIDO, CA. 92027

PROPRIETARY INFORMATION
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.

PLOT PLAN NUMBER:



PROJECT INFORMATION

PROJECT DESCRIPTION:
T-MOBILE PROPOSES TO MODIFY AN EXISTING UNSTAFFED TELECOMMUNICATION FACILITY BY REPLACING (6) EXISTING ANTENNAS (2 PER SECTOR) WITH (8) NEW ANTENNAS (2 PER SECTOR) ON EXISTING ANTENNA MOUNT. ALL EXISTING EQUIPMENT CABINETS, COAX AND TMA'S TO REMAIN.

APPLICANT:
T-MOBILE USA
10509 VISTA SORRENTO PKWY, SUITE 206
SAN DIEGO, CA 92121
CONTACT: ANNE WULFANGE REGAN
PHONE: (858) 602-6522

PROPERTY OWNER:
CITY OF SAN DIEGO RE DEPT
1200 THIRD AVE. NO. 1700
SAN DIEGO, CA 92123

CODE INFORMATION:
ZONING CLASSIFICATION: V-NON RATED
BUILDING CODE: 2010 CBC
CONSTRUCTION TYPE: IIB
OCCUPANCY: S-2
JURISDICTION: COUNTY OF SAN DIEGO
CURRENT USE: TELECOMMUNICATIONS FACILITY
PROPOSED USE: TELECOMMUNICATIONS FACILITY

PROJECT MANAGER:
PAUL HOKENESS, DEPRATTI, INC.
13948 CALLE BUENO
GANAR JAMUL, CA 91935
EMAIL: PAUL.HOKENESS@SAN.RR.COM
PH: (858) 231-8889

CONSTRUCTION MANAGER:
PAUL HOKENESS, DEPRATTI, INC.
13948 CALLE BUENO
GANAR JAMUL, CA 91935
EMAIL: PAUL.HOKENESS@SAN.RR.COM
PH: (858) 231-8889

TELCO COMPANY:
TBD
PH: TBD

POWER COMPANY:
TBD
PH: TBD

SITE LOCATION: (BASED ON NAD 83):
LATITUDE: 33° 6' 14.3382" N
LONGITUDE: 117° 0' 4.734" W
TOP OF STRUCTURE AGL: 27'-0"
BASE OF STRUCTURE AMSL: TBD

PARCEL NUMBER(S):
241-090-25-00

VICINITY MAP



SHEET DESCRIPTION

T-1	TITLE SHEET
G-1	GENERAL NOTES & RF SIGNAGE
A-1	SITE PLAN
A-2	EXISTING & PROPOSED ANTENNA PLAN
A-3	EXISTING & PROPOSED NORTH ELEVATION
A-4	EXISTING & PROPOSED EAST ELEVATION
A-5	CONSTRUCTION DETAILS
E-1	GROUNDING LAYOUT, SCHEMATIC, & NOTES
E-2	GROUNDING DETAILS

LEGAL DESCRIPTION

TBD

DRIVING DIRECTIONS

FROM T-MOBILE OFFICE, SAN DIEGO, CA:
HEAD SOUTH-EAST ON VISTA SORRENTO PKWY TOWARDS DIRECTORS PL
TURN RIGHT TO MERGE ONTO I-805 N 0.7 MI
TAKE THE CA-56 BYPASS E EXIT 0.9 MI
MERGE ONTO INTERSTATE 5 LOCAL BYPASS N 1.8 MI
CONTINUE ONTO CA-56 E/TED WILLIAMS FWY 9.8 MI
SLIGHT RIGHT TO MERGE ONTO I-15 N 7.3 MI
TAKE EXIT 27 FOR VIA RANCHO PKWY TOWARDS FELICITA PARK/SAN DIEGO WILD ANIMAL PARK 0.3 MI
TURN RIGHT ONTO E VIA RANCHO PKWY 0.2 MI
CONTINUE ONTO BEAR VALLEY PKWY S 0.6 MI
TURN RIGHT ONTO SAN PASQUAL VALLEY RD 3.4 MI
TURN RIGHT ONTO SAN PASQUAL VALLEY RD 1.2 MI
TURN LEFT DESTINATION WILL BE ON THE RIGHT 226 FT

15500 SAN PASQUAL VALLEY RD
ESCONDIDO, CA 92027, USA

RF INFORMATION

EXISTING RF & COAX CHART							
SECTOR	AZIMUTH	RAD CENTER	# OF ANTENNAS	ANTENNA MODEL	TMA	COAX	COAX LENGTH
ALPHA	0°	21'-0"	2	EXISTING	EXISTING	EXISTING	EXISTING
BETA	120°	21'-0"	2	EXISTING	EXISTING	EXISTING	EXISTING
GAMMA	240°	21'-0"	2	EXISTING	EXISTING	EXISTING	EXISTING

NOTE: VERIFY WITH FINAL RF DESIGN.

PROPOSED RF & COAX CHART							
SECTOR	AZIMUTH	RAD CENTER	# OF ANTENNAS	ANTENNA MODEL	TMA	COAX	COAX LENGTH
ALPHA	0°	21'-0"	2	ERICSSON AIR-21	EXISTING	EXISTING	EXISTING
BETA	120°	21'-0"	2	ERICSSON AIR-21	EXISTING	EXISTING	EXISTING
GAMMA	240°	21'-0"	2	ERICSSON AIR-21	EXISTING	EXISTING	EXISTING

NOTE: VERIFY WITH FINAL RF DESIGN.

PROJECT TEAM

PROJECT ARCHITECT
THOMAS HOLLAND
PACIFIC TELECOM SERVICES, LLC
3199C AIRPORT LOOP DRIVE
COSTA MESA, CA 92626
CONTACT: ROBERT LEIGHTON
PH: (206) 464-4402
EMAIL: RLEIGHTON@PTSVA.COM

PROJECT CONSULTANT
DEPRATTI, INC
13948 CALLE BUENO
GANAR JAMUL, CA 91935
CONTACT: PAUL HOKENESS
PH: (858) 231-8889

APPROVAL	DATE	SIGNATURE
LANDLORD:		
CONST:		
S/A:		
R.F.:		
ZONING:		
A&E:		

REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED

WILD ANIMAL PARK
SD06230A
 15500 SAN PASQUAL VALLEY RD.
 ESCONDIDO, CA. 92027

REVISIONS				
NO.	DATE	DESCRIPTION	INITIAL	
A	08/29/12	ISSUE FOR 30% CONSTRUCTION	RC	

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH THE "CALIFORNIA BUILDING CODE 2010" AND CITY CODE. SHALL MEET OR EXCEED THE STRICTER OF APPLICABLE COUNTY CODES AND REGULATIONS, LATEST EDITIONS.
- ANTENNAS, CABINETS AND JUMPERS SHALL BE PROVIDED BY CLIENT. CONTRACTOR SHALL COORDINATE SCHEDULE OF DELIVERY TO AVOID DELAYS.
- DAMAGE TO ALL UTILITIES, LAND, DRIVEWAY AREAS, AND PROPERTY OF OTHERS, DISTURBED DURING CONSTRUCTION, SHALL BE RETURNED TO THE ORIGINAL CONDITION AT THE COMPLETION OF WORK.
- CONTRACTOR SHALL COORDINATE WITH THE LOCAL POWER, TELEPHONE UTILITIES, AND THE CONSTRUCTION MANAGER TO CONFIRM THE SOURCE OF SERVICE PRIOR TO INSTALLATION OF CONDUITS.
- EXISTING VEGETATION AND ORGANIC MATERIALS SHALL BE REMOVED FROM THE CONCRETE PAD AREA, FILL SITE TO DESIGN ELEVATION WITH CLEAN, SANDY SOIL. COMPACT UNDER CONCRETE PAD TO OBTAIN NOT LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTM D557.
- REGRADE AROUND PAD AS REQUIRED TO ALLOW MAXIMUM 3" OF PAD THICKNESS, EXTENDING ABOVE GRADE.
- ALL WORK SHALL BE DONE SATISFACTORY IN A PROFESSIONAL WORKMANLIKE MANNER, SUBJECT TO INSPECTION DURING THE CONSTRUCTION AND FINAL APPROVAL BY THE CONSTRUCTION MANAGER.
- ANY SUBSTITUTIONS OF MATERIALS, EQUIPMENT OR ALTERATIONS FROM THE PLANS AND/OR SPECIFICATIONS SHALL BE APPROVED BY THE CONSTRUCTION MANAGER.
- COLOR SELECTION SHALL BE COORDINATED WITH CONSTRUCTION MANAGER.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS, DIMENSIONS, AND BRING DISCREPANCIES TO THE ATTENTION OF THE CONSTRUCTION MANAGER.
- CONTRACTOR SHALL CONTACT SUBSURFACE UTILITY LOCATOR FOR EXACT LOCATION OF EXISTING UTILITIES, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS BY TEST PIT, AS NECESSARY. LOCATION OF UTILITIES SHOWN ON PLAN ARE APPROXIMATE AND FOR PLANNING PURPOSES ONLY.
- CONTRACTOR SHALL SECURE THE NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENT AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL THE CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- TOWER AND TOWER FOUNDATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.
- CONTRACTOR SHALL VISIT THE PROJECT SITE TO VIEW ALL CONDITIONS PRIOR TO SUBMITTING BID. ANY CHANGES DURING CONSTRUCTION VISUALLY ASCERTAINABLE PRIOR TO SUBMITTING BID, CANNOT BE THE BASIS FOR A CHANGE ORDER.
- COAT ALL SURFACES WITH NO-OX WHERE DISSIMILAR METALS CONTACT.
- CONTRACTOR SHALL REMOVE ALL DEBRIS AND EMPTY COAX REELS FROM THE SITE UPON COMPLETION OF THE PROJECT.

PROJECT NOTES:

- REINFORCED CONCRETE:**
- R-1. CONCRETE: ALL CONCRETE SHALL BE F_c = 2,500 PSI AT END OF 28 DAYS AS DETERMINED BY ASTM C31 AND C39 AND SHALL BE NORMAL WEIGHT.
 - R-2. PREPARATION, TESTING, AND PLACING OF CONCRETE AND REINFORCEMENT SHALL BE PER ACI-318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, LATEST EDITION.
 - R-3. REINFORCING BARS SHALL HAVE A MINIMUM YIELD STRENGTH OF F_y = 60,000 PSI AND SHALL COMPLY WITH ASTM A615.
 - R-4. PROVIDE MINIMUM CONCRETE COVERAGE FOR REINFORCING STEEL OF 3".
- DESIGN:**
- D-1. DESIGN IS IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE 2010.
 - D-2. EQUIPMENT CABINET LOADING PER T-MOBILE STANDARD EQUIPMENT.
 - D-3. DESIGN LOADS: CALIFORNIA
 - A. 100 MPH WIND SPEED
 - 3 SECOND GUST
 - CATEGORY 2 IMPORTANCE FACTOR 1.0
 - EXPOSURE CATEGORY C
 - B. ALL OTHER LOADS ARE PER ASCE 7-02
- STRUCTURAL:**
- S-1. DETAIL, FABRICATE, AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC, SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURE STEEL FOR BUILDINGS.
 - S-2. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, 9th EDITION.
 - S-3. STRUCTURAL PIPE COLUMNS SHALL COMPLY WITH ASTM A53, TYPE E OR S, GRADE B, F_y = 36KSI. ALL WIDE FLANGE SHAPES SHALL BE ASTM A992, GRADE 50. ALL STRUCTURAL SHAPES AND PLATE SHALL COMPLY WITH ASTM A36.
 - S-4. WELDING: ALL WELDING IS TO BE DONE BY PRE-QUALIFIED WELDERS HOLDING CURRENT CERTIFICATE FROM A RECOGNIZED TESTING LABORATORY. ALL WELDS SHALL BE 3/16" MINIMUM FILLET WELDS U.O.N. ELECTRODES SHALL BE E70XX.
 - S-5. THERE SHALL BE NO FIELD WELDING.
 - S-6. STRUCTURAL GROUT SHALL BE SHRINKAGE RESISTANCE NON-EXPANSIVE, NONMETALLIC GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM CODE C109. FORMS SHALL BE PLACED AROUND BASE PLATE AND THE STRUCTURAL GROUT SHALL BE FOURED. NO DRY-DAMP PACKING.
 - S-7. ANCHOR BOLTS AND ALL-THREAD RODS SHALL COMPLY WITH ASTM A36, UNLESS OTHERWISE NOTED. ALL OTHER BOLTS AND NUTS SHALL COMPLY WITH ASTM A325. ALL BOLTS SHALL BE HOT-DIPPED GALVANIZED.
 - S-8. ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A153 OR A123.
 - S-9. APPLY TWO COATS OF ZINC-RICH RUST-OLEUM #2185 PAINT TO ALL FIELD DRILLED HOLES AND CUTS. GRID-GUARD EPOXY #5485 COATING SHALL BE APPLIED TO ALL AREAS WHERE GALVANIZED SURFACES NEED TO BE RECONDITIONED, INCLUDING ALL WELD AREAS.

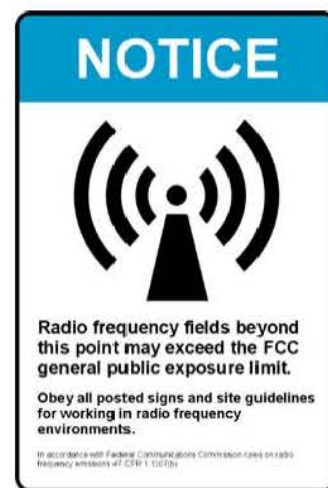
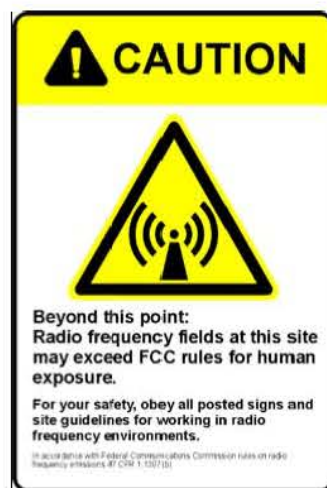
ELECTRICAL NOTES:

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE UL APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATIONS, INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE, OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS, AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING BETWEEN CABINETS SHALL RUN IN EMT OR SCHEDULE 40 PVC (AS PERMITTED BY CODE).
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR PVC WHERE LOCAL CODES AND SITE CONDITIONS PERMIT.
- ELECTRICAL WORK SHALL BE COPPER WITH TYPE XHHW, THWN, OR THIN INSULATION.
- RUN ELECTRICAL CONDUIT BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND EXISTING METER SOCKET AS LOCATED ON THIS DRAWING IN PVC, PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUITS BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND EXISTING TELCO CABINET AND T-MOBILE CABINET(S) AS INDICATED ON THIS DRAWING IN PVC. PROVIDE FULL LENGTH PULL ROPE IN TELCO CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO APPLY FOR COMMERCIAL POWER IMMEDIATELY UPON RECEIVING AWARD OF BID. THE GENERAL CONTRACTOR IS REQUIRED TO KEEP ALL RECEIPTS FROM THE POWER COMPANY ACKNOWLEDGING APPLICATION FOR POWER AND THOROUGH DOCUMENTATION OF ANY DISCUSSIONS WITH THE POWER COMPANY THEREAFTER. ALSO, THE GENERAL CONTRACTOR SHALL RECEIVE IN WRITING FROM THE POWER COMPANY AS TO WHEN THE ANTICIPATED POWER CONNECTION WILL BE COMPLETE. IF COMMERCIAL POWER IS NOT AVAILABLE BY THE "POWER COMPLETE" DATE AS CALLED OUT IN THE SPECIFICATIONS, A GENERATOR SHALL BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR UNTIL COMMERCIAL IS OBTAINED. ALL COSTS ASSOCIATED WITH THE GENERATOR WILL BE MUTUALLY AGREED UPON BETWEEN THE OWNER AND GENERAL CONTRACTOR, IN THE EVENT THAT THE GENERAL CONTRACTOR FAILS TO TAKE THE NECESSARY MEASURES AS DESCRIBED HEREIN TO SECURE POWER BY THE POWER COMPLETION DATE, THEN ALL COSTS ASSOCIATED WITH THE GENERATOR SHALL BE BORNE BY THE CONTRACTOR.

GROUNDING NOTES:

- AN ANTI-OXIDANT COMPOUND SHALL BE APPLIED TO ALL EXTERIOR, ABOVE GRADE, MECHANICAL, GROUND CONNECTIONS.
- CONTRACTOR SHALL SUPPLY ALL MATERIAL, LABOR, AND EQUIPMENT NECESSARY FOR A COMPLETE SYSTEM AS INTENDED HEREIN UNLESS OTHERWISE NOTED.
- ALL EXTERNAL GROUND CONDUCTORS SHALL BE #2 AWG. BARE, SOLID, TINNED COPPER UNLESS OTHERWISE NOTED.
- ALL GROUND CONNECTIONS SHALL BE MADE WITH EXOTHERMIC WELD PROCESS UNLESS OTHERWISE NOTED OR APPROVED. ALL CONNECTIONS SHALL BE MADE AT DESIGNATED LOCATIONS ON THE EQUIPMENT.
- EXACT LOCATION OF GROUND RODS AND GROUND CONNECTION POINTS SHALL BE DETERMINED IN THE FIELD, ADJUST LOCATIONS AS REQUIRED TO KEEP GROUND CONNECTIONS AS SHORT AS POSSIBLE (8" MIN. BEND RADIUS AND 90 DEGREE MAX BEND ANGLE). ALL BELOW GRADE GROUNDING SHALL BE INSPECTED AND APPROVED BY CONSTRUCTION MANAGER PRIOR TO BACKFILLING.
- ALL GROUND COMPONENTS SHALL BE INSTALLED WITHIN THE CONFINES OF THE FENCED AREA. ANY METALLIC ITEMS WITHIN 6' OF THE GROUND RING SHALL BE BONDED TO THE GROUND RING. GROUNDING REQUIREMENT NOT SHOWN ON PLANS ARE WAVEGUIDE HATCH COVER / PLATE, CABLE TRAYS, SUPPORTS, SERVICE PANELS, DISCONNECT SWITCHES, HVAC UNITS ETC. THESE ITEMS MUST BE GROUNDED.
- ALL EXTERIOR EXPOSED GROUND CONDUCTORS LONGER THAN 18" SHALL BE PROTECTED AND SUPPORTED BY A 3/4" PVC SCHEDULE 40 CONDUIT SLEEVE MOUNTED WITH CLIC-STRAP SUPPORTS FROM 6" BELOW FINISHED GRADE TO 6" FROM FINAL CONNECTION.
- ALL GROUND RODS SHALL BE DRIVEN STRAIGHT DOWN, PERPENDICULAR TO FINISHED GRADE, SUITABLE PROTECTION SHALL BE PROVIDED ON END OF RODS TO PREVENT MUSHROOMING WITH GROUND DURING INSTALLATION.
- GROUND CONDUCTORS SHALL NOT COME IN CONTACT WITH THE SLAB OR TOWER EXCEPT AS DESIGNATED.
- THE UTILITY NEUTRAL / GROUND BOND IS TO BE MADE IN THE METER OR MAIN DISCONNECT SWITCH, NOT IN ATS.
- ALL EQUIPMENT SURFACES TO BE BONDED TO GROUNDING SYSTEM SHALL BE STRIPPED OF ALL PAINT AND DIRT. CONNECTIONS TO VARIOUS METALS SHALL BE A TYPE AS TO NOT CAUSE A GALVANIC OR CORROSIVE REACTION AREA SHALL BE REPAINTED FOLLOWING BONDING.

RF SIGNAGE



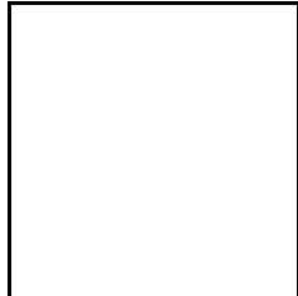
ABBREVIATIONS

A/C	AIR CONDITIONING	GC	GENERAL CONTRACTOR	PLYWD	PLYWOOD
ABL	ABOVE GROUND LEVEL	GPS	POSITIONING SYSTEM	PROJ	PROJECT
APPROX	APPROXIMATELY	GRND	GROUND	PROP	PROPERTY
BLDG	BUILDING	HORZ	HORIZONTAL	PT	PRESSURE TREATED
BLK	BLOCKING	HR	HOUR	REQ	REQUIRED
CLG	CEILING	HT	HEIGHT	RF	RADIO FREQUENCY
CLR	CLEAR	HVAC	HEATING VENTILATION AIR CONDITIONING	RM	ROOM
COAX	COAXIAL CABLE	ID	INSIDE DIAMETER	RO	ROUGH OPENING
CONC	CONCRETE	IN	INCH	RRH	REMOTE RADIO HEAD
CONST	CONSTRUCTION	INFO	INFORMATION	RRU	REMOTE RADIO UNIT
CONT	CONTINUOUS	INSUL	INSULATION	SHT	SHEET
DBL	DOUBLE	INT	INTERIOR	SIM	SIMILAR
DIA	DIAMETER	IBC	INTERNATIONAL BUILDING CODE	SPEC	SPECIFICATION
DIAG	DIAGONAL	LBS	POUNDS	SF	SQUARE FOOT
DN	DOWN	LMU	LOCATION MEASUREMENT UNIT	SS	STAINLESS STEEL
DET	DETAIL	LTE	LONG TERM EVOLUTION	STL	STEEL
DWG	DRAWING	MAX	MAXIMUM	STRUCT	STRUCTURAL
EA	EACH	MECH	MECHANICAL	STD	STANDARD
ELEV	ELEVATION	MTL	METAL	SUSP	SUSPENDED
ELEC	ELECTRICAL	MFR	MANUFACTURE	THRU	THROUGH
EQ	EQUAL	MGR	MANAGER	TMA	TOWER MOUNTED AMPLIFIER
EQUIP	EQUIPMENT	MN	MINIMUM	TNNG	TINNED
EXT	EXTERIOR	MISC	MISCELLANEOUS	TYP	TYPICAL
FIN	FINISH	NA	NOT APPLICABLE	UNO	UNLESS NOTED OTHERWISE
FLUOR	FLUORESCENT	NIC	NOT IN CONTRACT	VERT	VERTICAL
FLR	FLOOR	NTS	NOT TO SCALE	VIF	VERIFY IN FIELD
FT	FOOT	OC	ON CENTER	W/	WITH
FRP	FIBER-REINFORCED POLYMER	OD	OUTSIDE DIAMETER	W/O	WITHOUT
GA	GUAGE			WP	WATER PROOF
GALV	GALVANIZED				

T-Mobile
 INLAND EMPIRE
 10800 VISTA SERRITO PKWY, SUITE 205
 SAN DIEGO, CA 92121

Deprattinc.
 13848 CALLE BUENO GANAR
 JARVIS, CA 91330

PTS
 PACIFIC TELECOM SERVICES, LLC
 3108C AIRPORT LOOP DR/8E
 COSTA MESA, CA 92626
 PHONE: (714) 444-0963



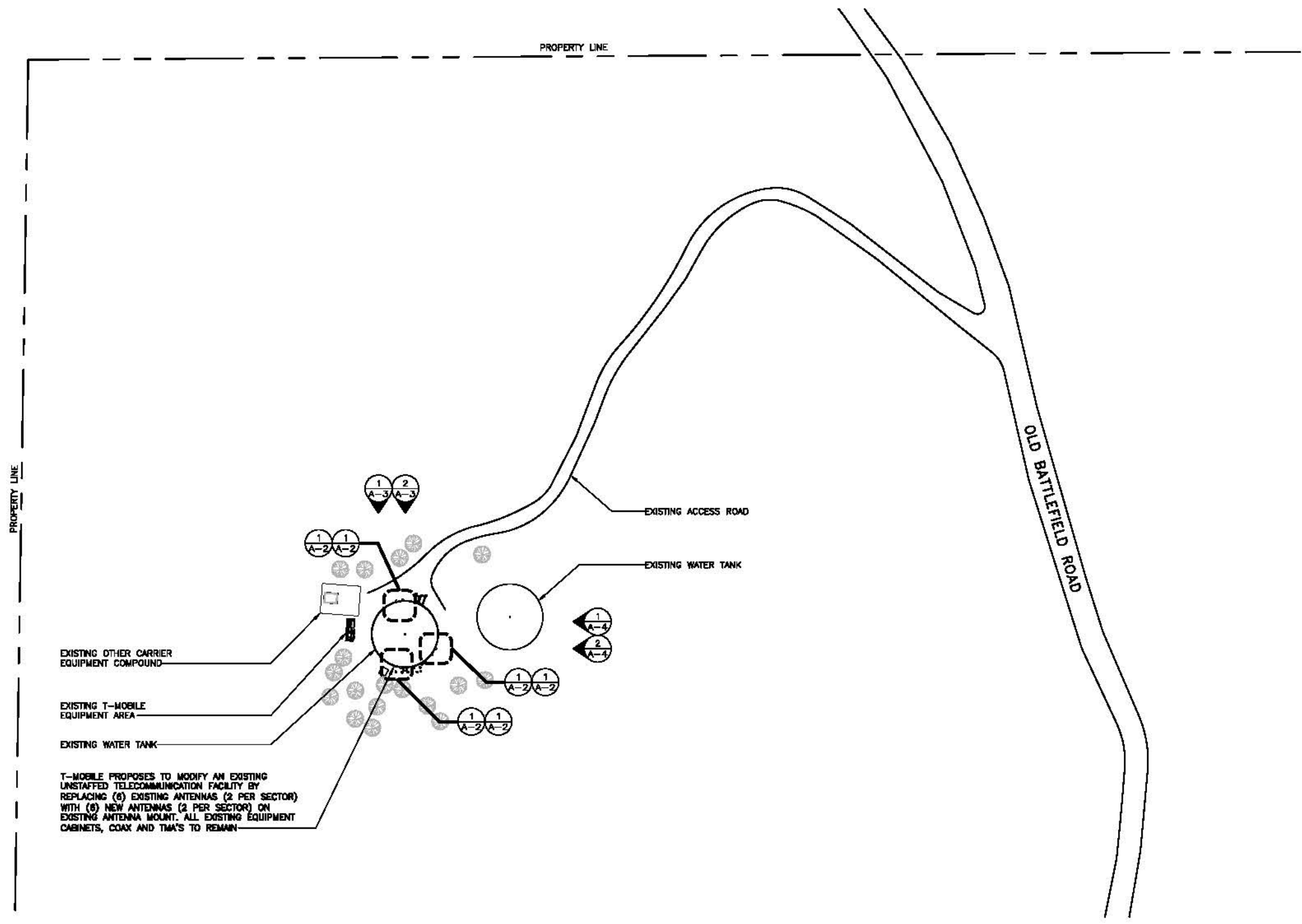
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 15500 SAN PASQUAL VALLEY RD.
 ESCONDIDO, CA 92027

REVISIONS				
NO.	DATE	DESCRIPTION	INITIAL	
A	04/26/12	ISSUE FOR BIDD CONSTRUCTION	RC	

SHEET TITLE
 GENERAL NOTES & RF SIGNAGE

SHEET NUMBER
G-1

- LEGEND**
- SUBJECT BOUNDARY LINE
 - - - RIGHT-OF-WAY CENTERLINE
 - ==== RIGHT-OF-WAY LINE
 - - - - - ADJACENT BOUNDARY LINE
 - - - - - SECTIONAL BREAKDOWN LINE
 - COAX---COAX---COAX--- COAXIAL CABLE LINE
 - FIBER --- FIBER --- FIBER OPTIC CABLE LINE
 - OHP --- OHP --- OVERHEAD POWER LINE
 - UGP --- UGP --- UGP --- BURIED POWER LINE
 - GAS --- GAS --- GAS --- BURIED GAS LINE
 - OHT --- OHT --- OVERHEAD TELEPHONE LINE
 - UGT --- UGT --- UGT --- BURIED TELEPHONE LINE
 - W --- W --- W --- BURIED WATER LINE
 - SS --- SS --- SS --- BURIED SANITARY SEWER
 - SD --- SD --- SD --- BURIED STORM DRAIN
 - DITCH LINE/FLOW LINE
 - ROCK RETAINING WALL
 - VEGETATION LINE
 - x - x - x - x - x - CHAIN LINK FENCE
 - □ - □ - □ - WOOD FENCE
 - x - x - x - x - x - BARBED WIRE/WIRE FENCE
 - △ TRANSFORMER
 - ⊗ LIGHT STANDARD
 - POWER VAULT
 - ⊠ UTILITY BOX
 - ⊕ UTILITY POLE
 - ⊖ POLE GUY WIRE
 - ⊞ GAS VALVE
 - ⊟ GAS METER
 - ⊠ TELEPHONE VAULT
 - ⊡ TELEPHONE RISER
 - ⊙ FIRE HYDRANT
 - ⊞ GATE VALVE
 - ⊞ WATER METER
 - ⊙ FIRE STAND PIPE
 - ⊞ CATCH BASIN, TYPE I
 - ⊞ CATCH BASIN, TYPE II
 - ⊞ SIGN
 - ⊙ BOLLARD
 - ⊞ MAIL BOX
 - 234.21 SPOT ELEVATION



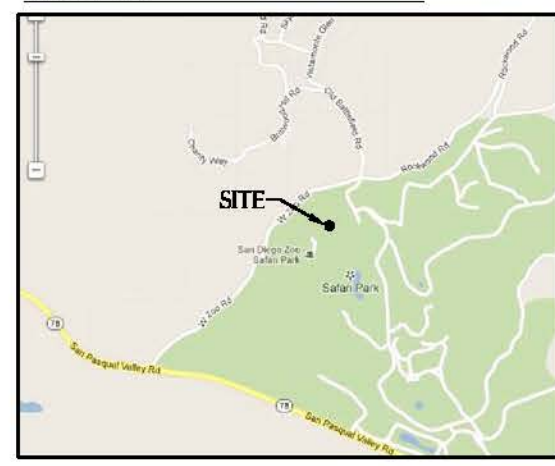
EXISTING OTHER CARRIER EQUIPMENT COMPOUND

EXISTING T-MOBILE EQUIPMENT AREA

EXISTING WATER TANK

T-MOBILE PROPOSES TO MODIFY AN EXISTING UNSTAFFED TELECOMMUNICATION FACILITY BY REPLACING (6) EXISTING ANTENNAS (2 PER SECTOR) WITH (6) NEW ANTENNAS (2 PER SECTOR) ON EXISTING ANTENNA MOUNT. ALL EXISTING EQUIPMENT CABINETS, COAX AND TMA'S TO REMAIN.

VICINITY MAP



WILD ANIMAL PARK
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 15500 SAN PASQUAL VALLEY RD.
 ESCONDIDO, CA. 92027

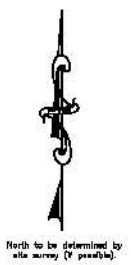
REVISIONS				
NO.	DATE	DESCRIPTION	INITIAL	
A	08/24/12	ISSUE FOR BOX CONSTRUCTION	HC	

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

SHEET TITLE
 SITE PLAN

SHEET NUMBER
A-1

24"x36" SCALE: 1" = 60'-0"
 11"x17" SCALE: 1" = 120'-0"



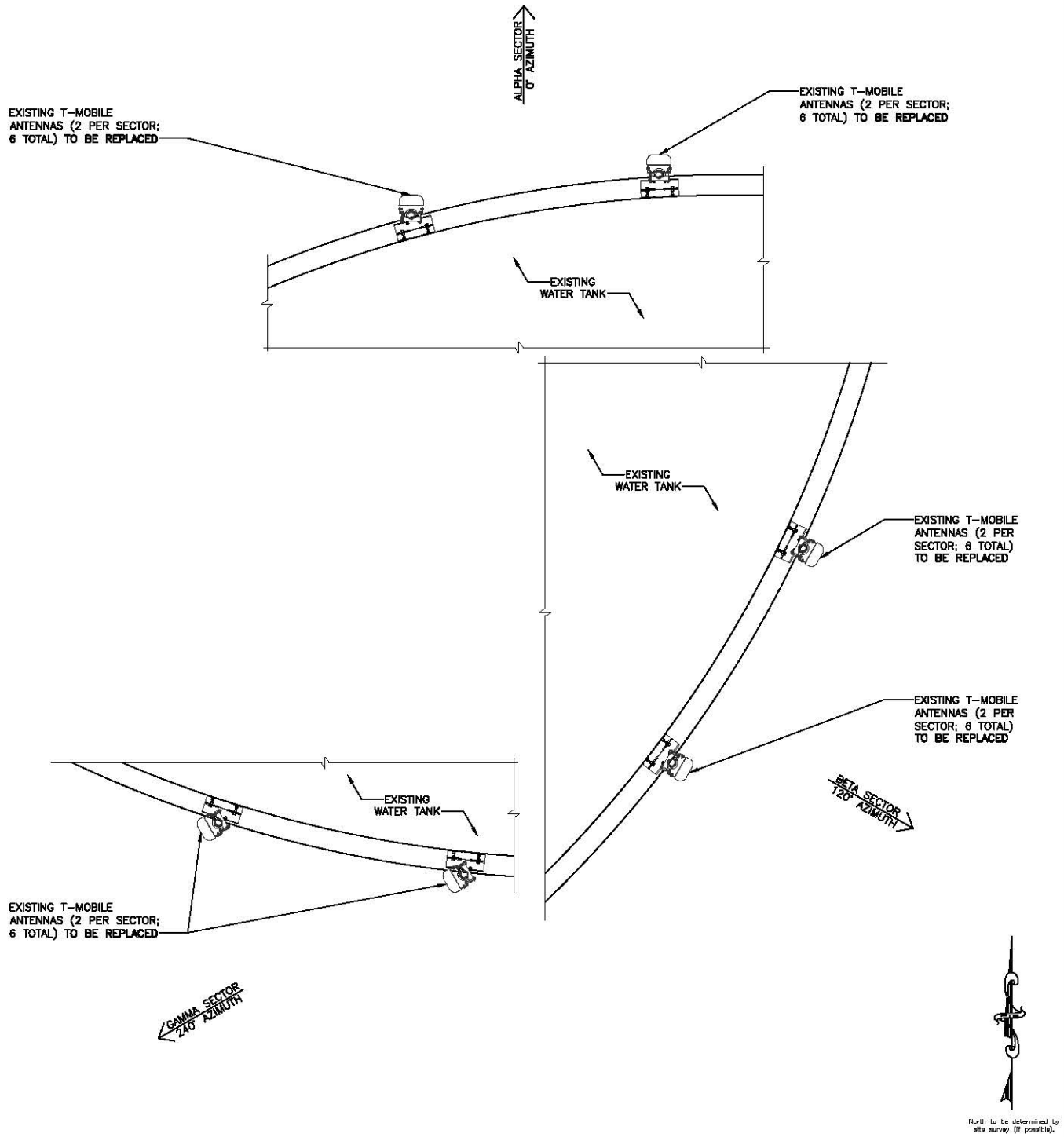
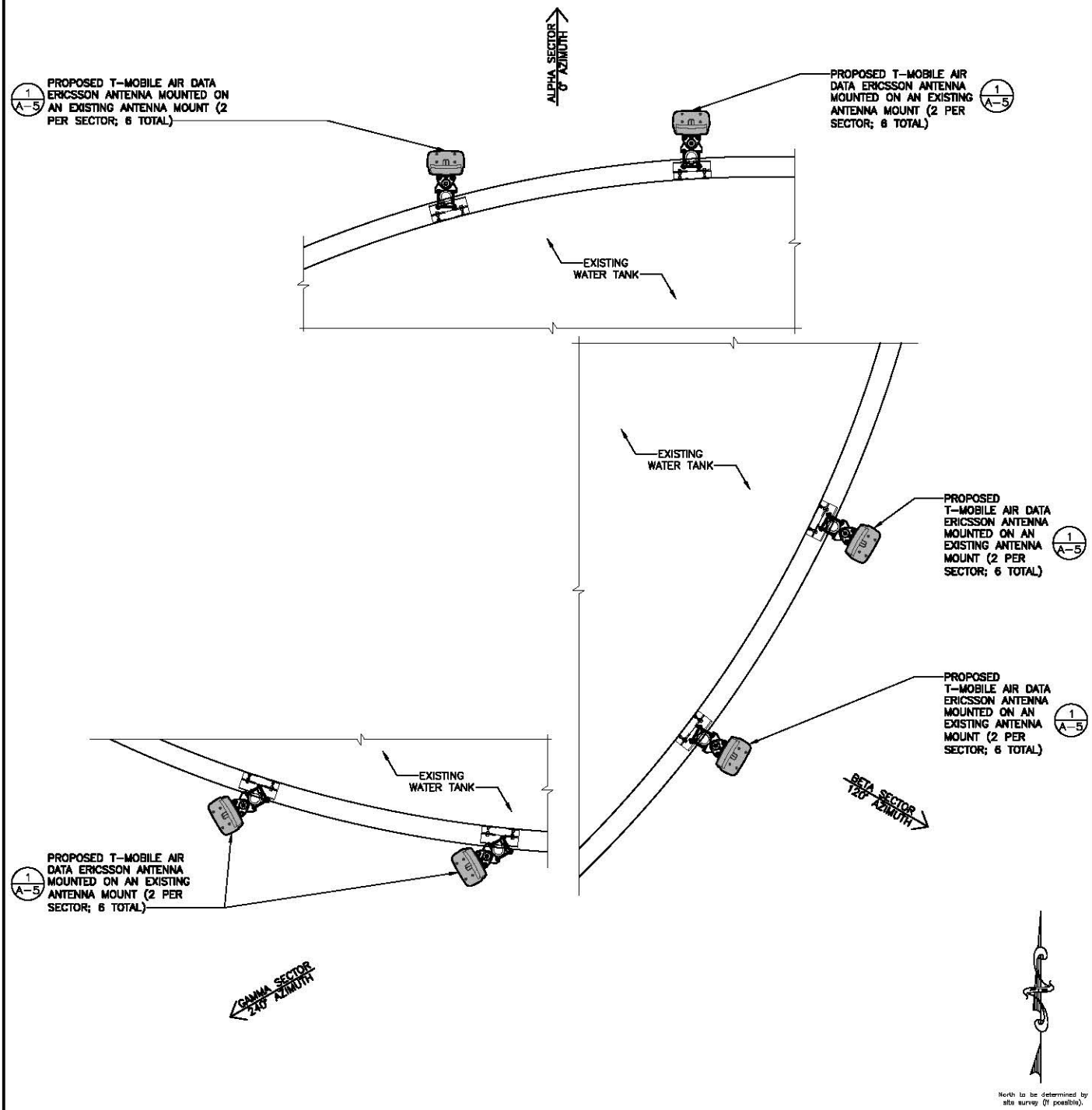
SITE PLAN 1

PROPOSED RF & COAX CHART							
SECTOR	AZIMUTH	RAD CENTER	# OF ANTENNAS	ANTENNA MODEL	TMA	COAX	COAX LENGTH
ALPHA	0°	21'-0"	2	ERICSSON AIR-21	EXISTING	EXISTING	EXISTING
BETA	120°	21'-0"	2	ERICSSON AIR-21	EXISTING	EXISTING	EXISTING
GAMMA	240°	21'-0"	2	ERICSSON AIR-21	EXISTING	EXISTING	EXISTING

NOTE: VERIFY WITH FINAL RF DESIGN.

EXISTING RF & COAX CHART							
SECTOR	AZIMUTH	RAD CENTER	# OF ANTENNAS	ANTENNA MODEL	TMA	COAX	COAX LENGTH
ALPHA	0°	21'-0"	2	EXISTING	EXISTING	EXISTING	EXISTING
BETA	120°	21'-0"	2	EXISTING	EXISTING	EXISTING	EXISTING
GAMMA	240°	21'-0"	2	EXISTING	EXISTING	EXISTING	EXISTING

NOTE: VERIFY WITH FINAL RF DESIGN.



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

PROPOSED ANTENNA PLAN 2

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

EXISTING ANTENNA PLAN 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.



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SHEET TITLE
 EXISTING & PROPOSED
 ANTENNA PLAN

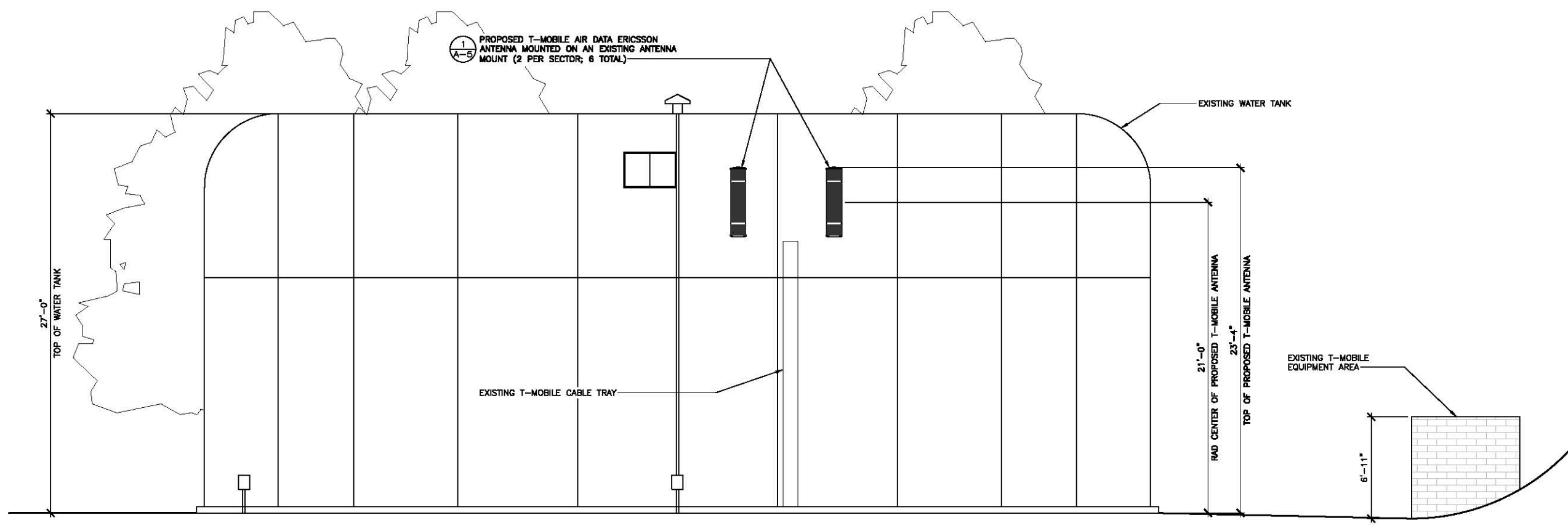
SHEET NUMBER
A-2

WILD ANIMAL PARK
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REVISIONS				
NO.	DATE	DESCRIPTION	INITIAL	
A	09/20/12	ISSUE FOR BDM CONSTRUCTION	RC	

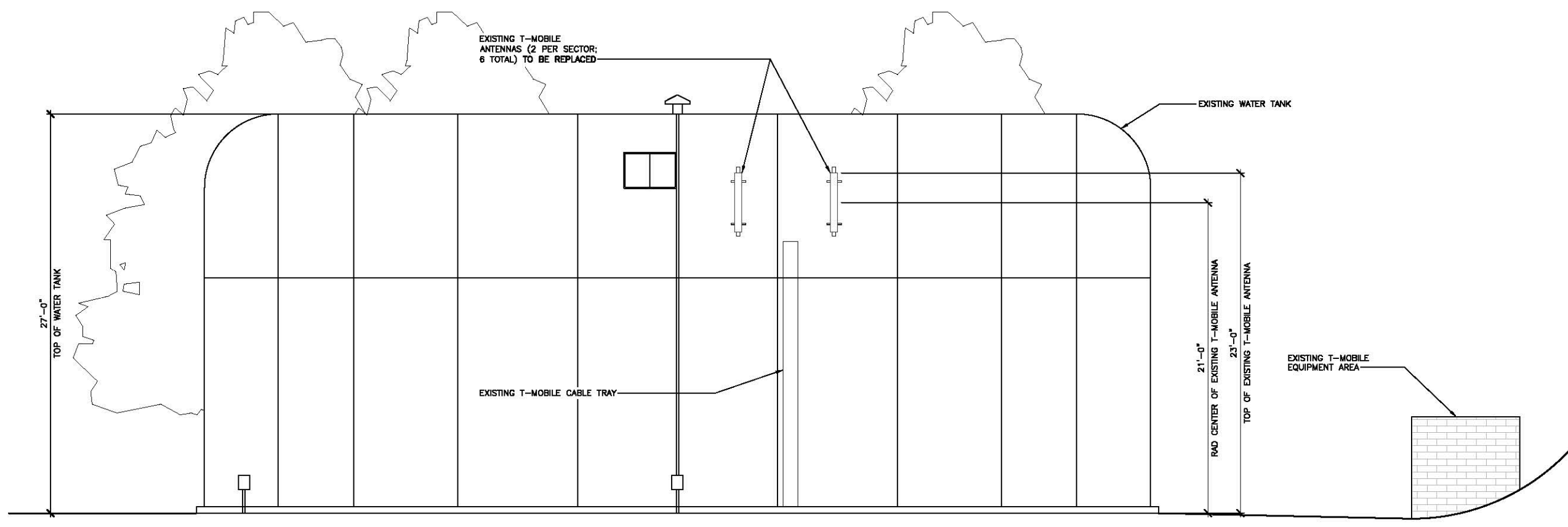
SHEET TITLE
 EXISTING & PROPOSED
 NORTH ELEVATION

SHEET NUMBER
A-3



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

PROPOSED NORTH ELEVATION 2

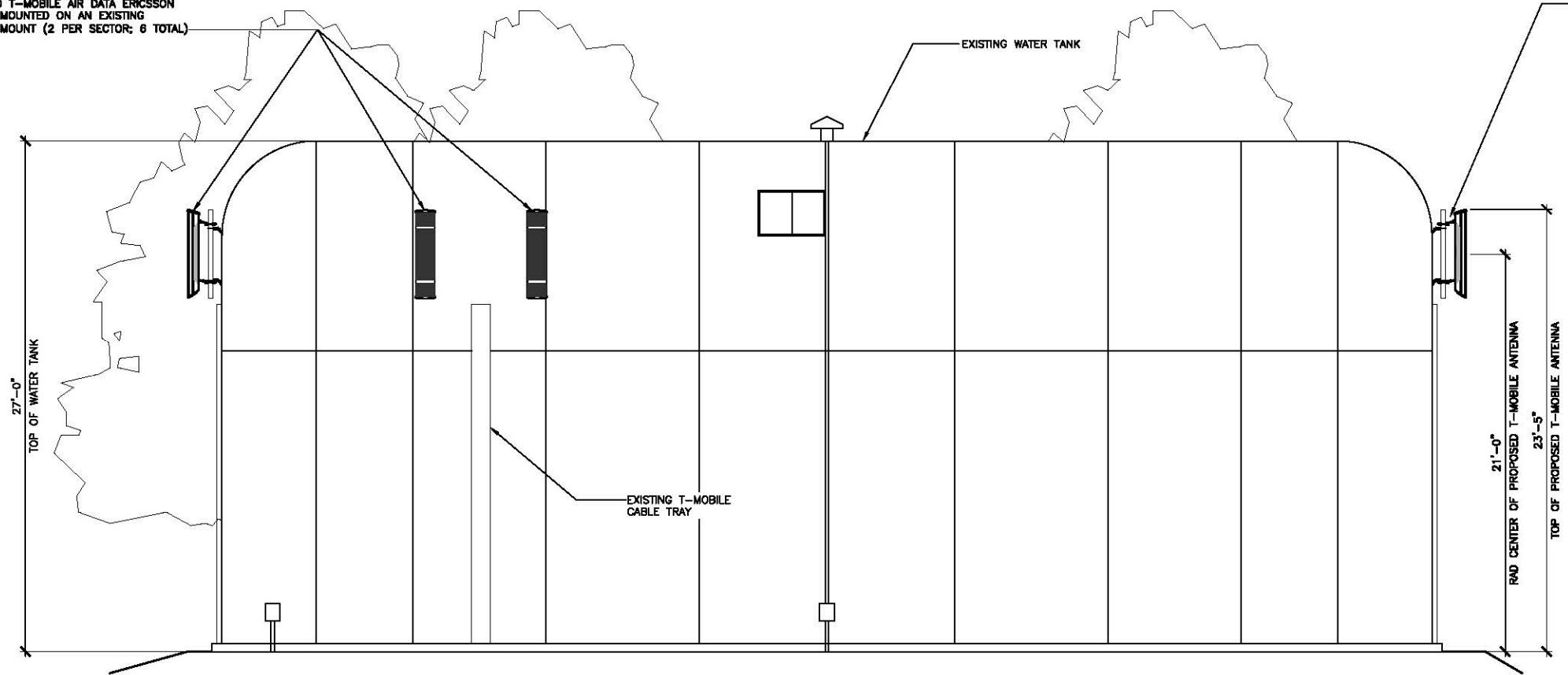


24"x36" SCALE: 1/4" = 1'-0"
 11"x17" SCALE: 1/8" = 1'-0"

EXISTING NORTH ELEVATION 1

1
A-5
PROPOSED T-MOBILE AIR DATA ERICSSON ANTENNA MOUNTED ON AN EXISTING ANTENNA MOUNT (2 PER SECTOR; 6 TOTAL)

1
A-5
PROPOSED T-MOBILE AIR DATA ERICSSON ANTENNA MOUNTED ON AN EXISTING ANTENNA MOUNT (2 PER SECTOR; 6 TOTAL)

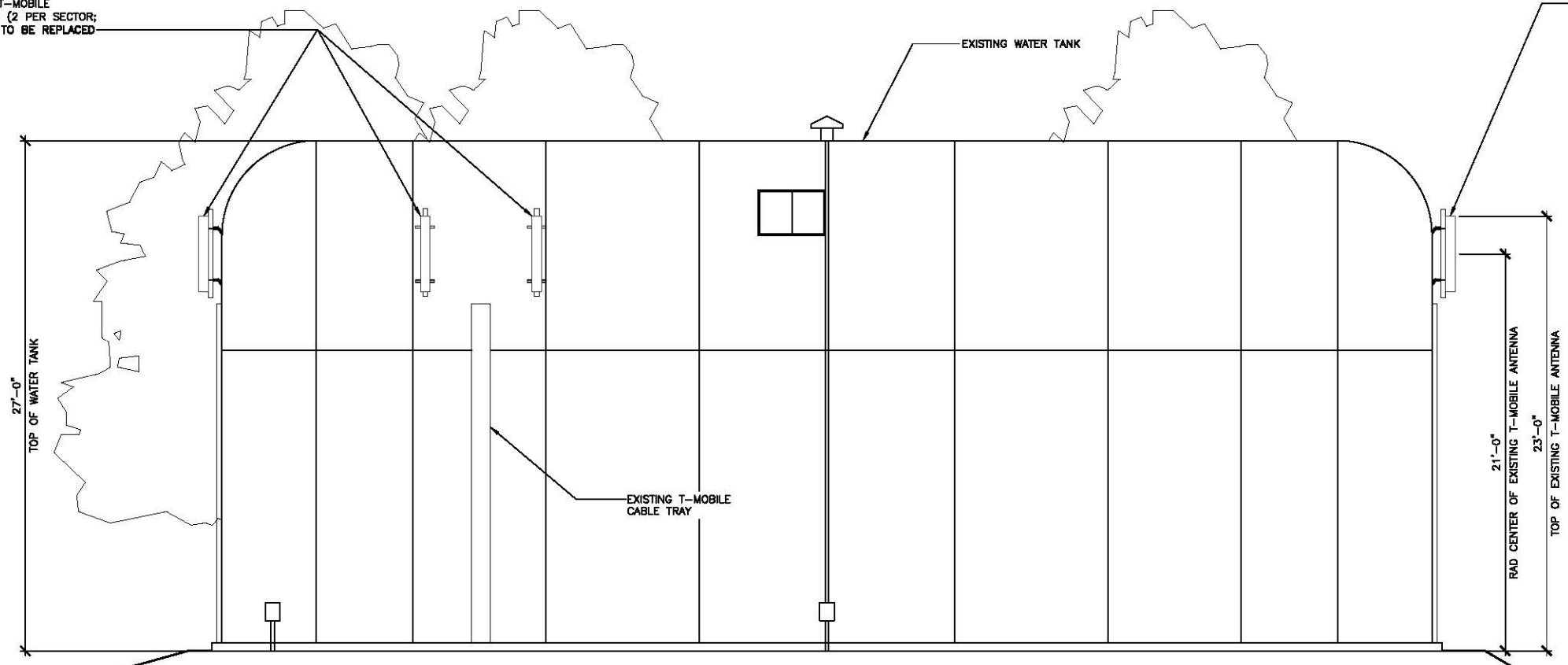


24"x36" SCALE: 1" = 10'-0"
11"x17" SCALE: 1" = 20'-0"

PROPOSED EAST ELEVATION 2

EXISTING T-MOBILE ANTENNAS (2 PER SECTOR; 6 TOTAL) TO BE REPLACED

EXISTING T-MOBILE ANTENNAS (2 PER SECTOR; 6 TOTAL) TO BE REPLACED



24"x36" SCALE: 1" = 10'-0"
11"x17" SCALE: 1" = 20'-0"

EXISTING EAST ELEVATION 1

T-Mobile
INLAND EMPIRE
10509 VISTA SORRENTO PKWY, SUITE 206
SAN DIEGO, CA 92121

Deprattinc.
12948 CALLE BUENO CAMAR
JAMUL, CA 91833

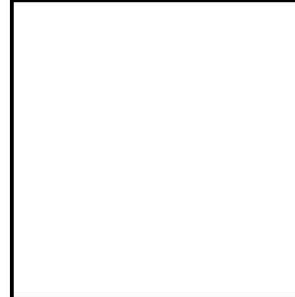
PTS
PACIFIC TELECOM SERVICES, LLC
3198C AIRPORT LOOP DRIVE
COSTA MESA, CA 92626
PHONE: (714) 454-0853

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SHEET TITLE
EXISTING & PROPOSED
EAST ELEVATION

SHEET NUMBER
A-4



WILD ANIMAL PARK
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SHEET TITLE
 CONSTRUCTION DETAILS

SHEET NUMBER
A-5

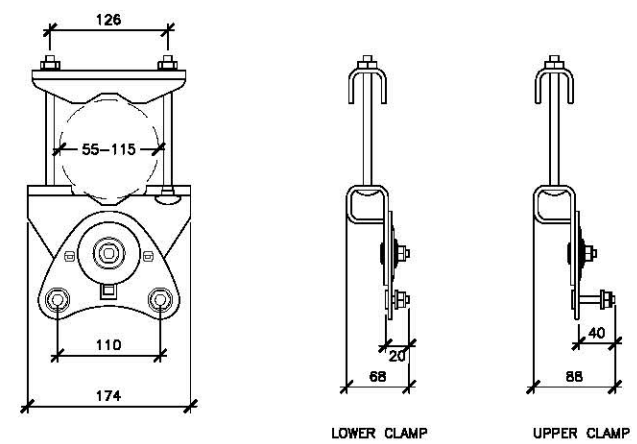
NOT USED
 24"x36" SCALE: NOT TO SCALE
 11"x17" SCALE: NOT TO SCALE

4

NOT USED
 24"x36" SCALE: NOT TO SCALE
 11"x17" SCALE: NOT TO SCALE

3

MANUFACTURER: KATHREIN
 MODEL: AIR21 CLAMP KIT (55-115 mm)
 PART #: 85010070
 WEIGHT: 4.3kg (9.5 LBS)



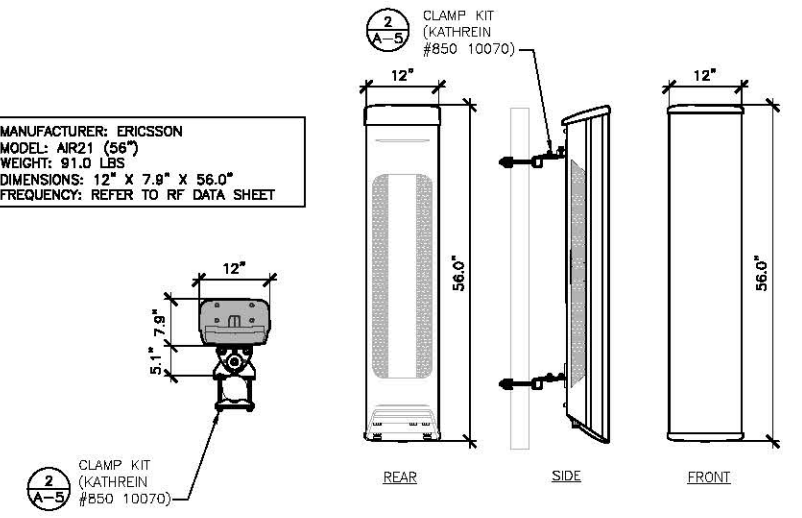
NOTE: DIMENSIONS IN mm.

ANTENNA MOUNTING CLAMP DETAIL

24"x36" SCALE: 3/4" = 1'-0"
 11"x17" SCALE: 1-1/2" = 1'-0"

2

MANUFACTURER: ERICSSON
 MODEL: AIR21 (56")
 WEIGHT: 91.0 LBS
 DIMENSIONS: 12" X 7.9" X 56.0"
 FREQUENCY: REFER TO RF DATA SHEET



ANTENNA SPECIFICATIONS

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

1

KEY NOTES

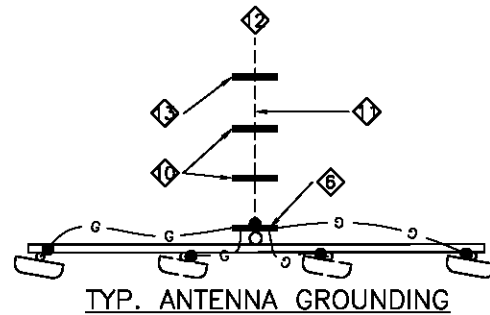
- ① PROPOSED T-MOBILE EQUIPMENT CABINETS (X CURRENT, X FUTURE)
- ② (N) GROUND RING AWG #2 INSULATED COPPER GROUND WIRE BURIED 30" BELOW GRADE
- ③ TELCO BOX
- ④ PPC CABINET
- ⑤ GPS ANTENNA (TYP. OF 2)
- ⑥ ANTENNA GROUND BUS BAR @ EACH SECTOR
- ⑦ EQUIPMENT PAD
- ⑧ GROUND ROD
- ⑨ EMERGENCY GENERATOR RECEPTACLE
- ⑩ ANTENNA GROUND BUS BAR AT BOTTOM OF (N) POLE
- ⑪ AWG 2 INSULATED COPPER GROUND WIRE TO ANTENNA GROUND BUS BAR AT LEASE AREA. (FOLLOW COAX ROUTING)
- ⑫ MASTER GROUND BUS @ EQUIPMENT 7
E-2
- ⑬ ANTENNA GROUND BUS BAR IN LEASE AREA

LEGEND

- MECHANICAL CONNECTION
- EXOTHERMIC WELD (CADWELD/THERMOWELD) CONNECTION.
- ⊗ 5/8"Ø x 10'-0" COPPER, OR COPPER CLAD STEEL GROUND ROD AT 10'-0" O.C. (MAX)
- G— #2 AWG INSULATED, COPPER WIRE (UNLESS OTHERWISE SPECIFIED).
- S.O.H. S.O.H. SECONDARY OVERHEAD

GENERAL NOTES:

1. PLAN DRAWINGS SHOWN HEREIN ARE DIAGRAMMATIC AND DOES NOT NECESSARILY DEPICT THE EXACT EQUIPMENT QUANTITIES, LOCATION, LAYOUT AND CONFIGURATION. REFER TO ARCHITECTURAL PLANS FOR EXACT EQUIPMENT LOCATION, LAYOUT AND CONFIGURATION.
2. PLAN DRAWINGS SHOWN HEREIN DOES NOT NECESSARILY DEPICT ELECTRICAL REQUIREMENTS OF INDIVIDUAL EQUIPMENT AND DEVICES SUCH AS THE EQUIPMENT GROUNDING REQUIREMENTS, POWER REQUIREMENTS AND TELCO RACEWAY REQUIREMENTS.
3. REFER TO ARCHITECTURAL PLANS FOR THE LOCATION OF POWER AND TELCO POINT OF CONNECTIONS, THE DISTANCE OF THE RUN AND THE SUGGESTED CONDUIT ROUTING. FIELD VERIFY EXISTING CONDITIONS SPECIFICALLY FOR CONDUIT ROUTING PRIOR TO BID.



1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
2. GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #2 GROUND WIRES AND CONNECT TO SURFACE MOUNTED GROUND BUS BARS AS SHOWN. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS USING MANUFACTURER'S PRACTICES. ALL UNDERGROUND WATER PIPES, METAL CONDUITS AND GROUNDS THAT ARE A PART OF THIS SYSTEM SHALL BE BONDED TOGETHER.
3. ALL GROUND CONNECTIONS SHALL BE #2 AWG U.N.O. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE SOLID TIN COATED OR STRANDED GREEN INSULATED WIRE.
4. CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE, 5 OHMS MAXIMUM. PROVIDE SUPPLEMENT GROUNDING RODS AS REQUIRED TO ACHIEVE SPECIFIED OHMS READING. GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE T-MOBILE REPRESENTATIVE.
5. NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
6. BARE GROUNDING CONDUCTOR SHALL BE HARD DRAWN TINNED COPPER SIZES AS NOTED ON PLAN.
7. ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED MINIMUM 12" BELOW GRADE/FROST-LINE IN TRENCH, U.N.O., AND BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT.
8. ALL GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.

9. ALL SUPPORT STRUCTURES, CABLE CHANNEL WAYS OR WIRE GUIDES SHALL BE BONDED TO GROUND SYSTEM AT A POINT NEAREST THE MAIN GROUNDING BUS "MGB" (OR DIRECTLY TO GROUND-RING).
10. ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:
 - a. BURNDY, HY-GRADE U.L. LISTED CONNECTORS FOR INDOOR USE OR AS APPROVED BY T-MOBILE PROJECT MANAGER.
 - b. CADWELD, EXOTHERMIC WELDS (WELDED CONNECTIONS).
 - c. TWO -(2) HOLE TINNED COPPER COMPRESSION (LONG BARREL) FITTINGS (BUS BAR CONNECTIONS).
11. ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DIEMARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICES).
12. PRIOR TO ANY LUG-BUSSBAR CONNECTIONS, THE BUSSBAR SHALL BE CLEANED BY USE OF "SCOTCH-BRITE" OR PLAIN STEEL WOOL AS TO REMOVE ALL SURFACE OXIDATION AND CONTAMINANTS. A COATING OF "NO-OX-ID" SHALL BE APPLIED TO THE CONNECTION SURFACES.
13. ALL CONNECTION HARDWARE SHALL BE TYPE 316 SS (NOT ATTRACTED TO MAGNETS).
14. THE GROUND RING SHALL BE INSTALLED 24" MINIMUM BEYOND ANY BUILDING DRIP LINE.
15. ELECTRICAL SERVICE EQUIPMENT GROUNDING SHALL COMPLY WITH NEC, ARTICLE 250-82 AND SHALL BOND ALL EXISTING AND NEW GROUNDING ELECTRODES. NEW GROUNDING ELECTRODE SHALL INCLUDE BUT NOT LIMITED TO GROUND RODS, GROUND RING IF SERVICE IS WITHIN THE RADIO EQUIPMENT LOCATION, BUILDING STEEL IF APPLICABLE. COLD WATER CONNECTIONS MUST BE MADE ON THE STREET SIDE OF MAIN SHUT-OFF VALVE.

GROUNDING NOTES | 3



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SHEET TITLE
GROUNDING LAYOUT,
SCHEMATIC, & NOTES

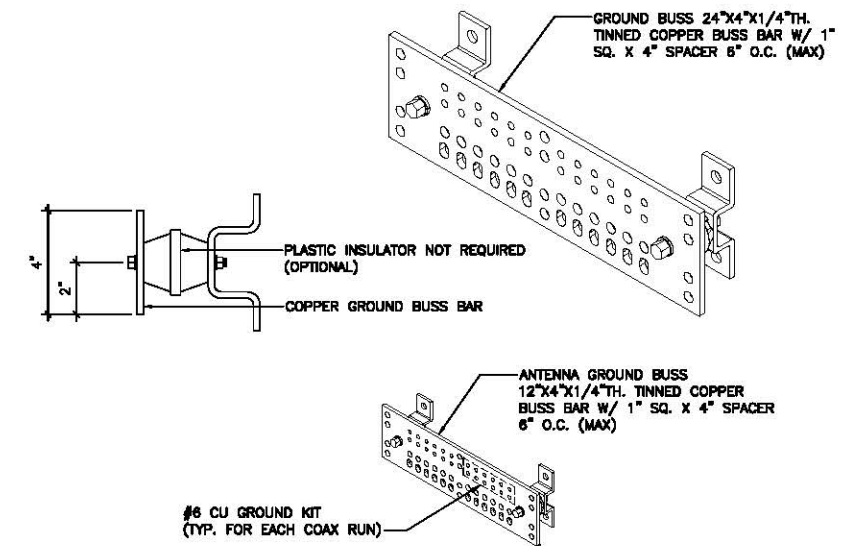
SHEET NUMBER
E-1

NOT USED
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

9

NOT USED
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

8

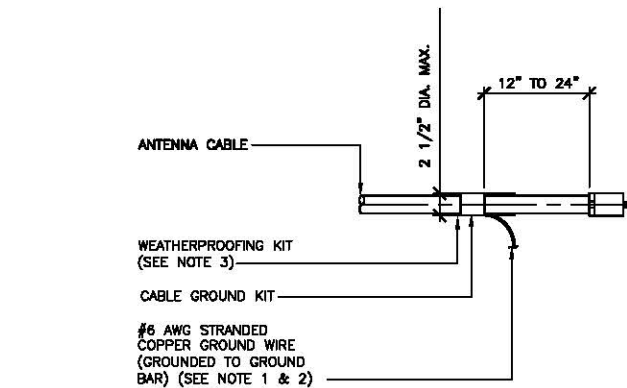


GROUND BAR
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

7

NOT USED
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

6

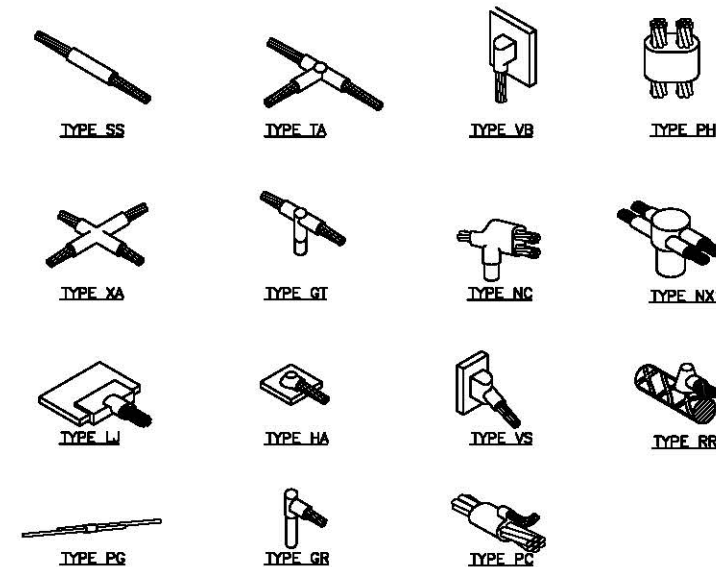


NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, GOLD SHRINK SHALL NOT BE USED.

COAX GROUND KIT
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

5

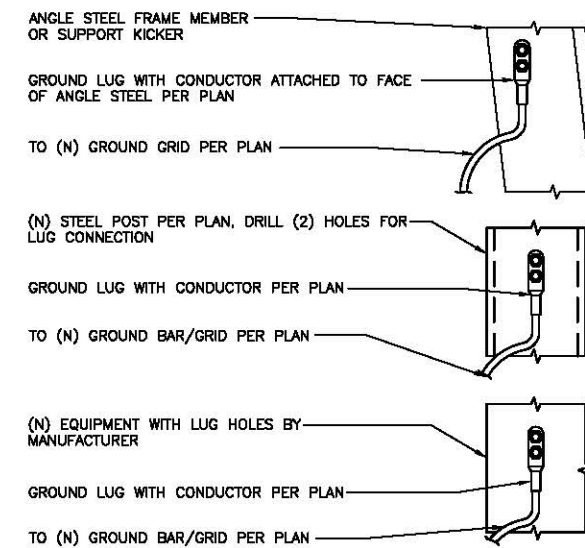
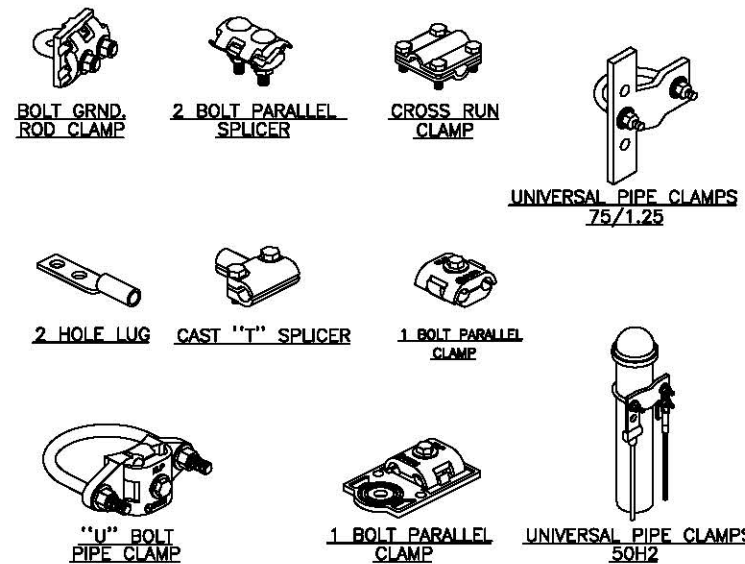


CADWELD CONNECTIONS
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

4

NOT USED
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

3



COMPRESSION (MECHANICAL) CONNECTIONS
24"x36" SCALE: NOT TO SCALE
11"x17" SCALE: NOT TO SCALE

1

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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
E-2