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# **PROJECT DESCRIPTION**

NEW SITE BUILD UNMANNED TELECOMMUNICATIONS FACILITY.

BRING POWER / TELCO / FIBER TO SITE LOCATION

GRAVEL ROAD IMPROVEMENT FROM ROW 30'X35' FENCED LEASE AREA

INSTALL AT&T APPROVED PRE-MANUFACTURED EQUIPMENT SHELTER AND ASSOCIATED INTERIOR EQUIPMENT

ADD (1) NEW GPS UNITS

ADD 160'-0" MONOPINE

- 7. ADD (12) ANTENNAS (4) PER ALPHA, BETA, GAMMA SECTOR 8. ADD (19) PROPOSED AND (2) FUTURE RRUS
- 9. ADD (4) SURGE SUPPRESSORS
- 10. ADD (2) FUTURE 4' MICROWAVE DISHES
- 11. ADD 6'-0" HIGH CHAIN LINK FENCE W/ VYNAL SLATS
- 12. ADD 35KW LP PROPANE GENERATOR 13. ADD 500 GAL LP PROPANE STORAGE TANK
- 14. RELOCATE (E) TOWER EQUIPMENT TO (P) MONOPINE
- 15. RELOCATE (E) COUNTY RADIO EQUIPMENT TO (N) RACK WITHIN (P) AT&T

# 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:

- 1. 2016 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R. (CALIFORNIA CODE OF REGULATIONS)
- 2. 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. (VOLUMES 1 & 2), (2015 INTERNATIONAL BUILDING CODE)
- 3. 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, C.C.R., (2014 NATIONAL ELECTRICAL CODE)
- 4. 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R., (2015 UNIFORM MECHANICAL CODE)
- 5. 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R., (2015 UNIFORM PLUMBING CODE)
- 6. 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R. 7. 2016 CALIFORNIA HISTORICAL BUILDING CODE, PART 8, TITLE 24,
- C.C.R., (2015 INTERNATIONAL BUILDING CODE) 8. 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R., (2015
- INTERNATIONAL FIRE CODE) 9. 2016 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24,
- C.C.R., (2015 INTERNATIONAL BUILDING CODE) 10. 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11,
- TITLE 24 C.C.R., (CALGreen) 11. 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
- 12. ANSI/EIA-TIA-222-G
- 13. ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND **REGULATIONS.**

DISABLED ACCESS REQUIREMENTS THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE TITLE 24 PART 2, SECTION 11B-203.4

OCCUPANCY AND CONSTRUCTION TYPE

OCCUPANCY : U (UNMANNED) CONSTRUCTION TYPE: V-B

SPECIAL INSPECTIONS

**PROPERTY INFORMATION:** PROPER GEORGETOW SITE NAME: BUFFALO HILL PO BOX 4 SITE NUMBER: CVL02069 GEORGETOW SEARCH RING: BUFFALO HILL

**PROJECT INFORMATION** 

SITE ADDRESS: 2065 SLIGER MINE RD. GREENWOOD, CA 95635

A.P.N. NUMBER: 061-720-55

FA# 13787697

CURRENT USE: FIRE STATION SURROUNDING USE: SINGLE FAMILY RURAL RESIDENTIAL

PROPOSED USE: (U) UNMANNED TELECOMMUNICATION FACILITY

JURISDICTION: ELDORADO COUNTY

LATITUDE: N 38° 56' 05.78"

LONGITUDE: 120' 54' 05.69"

**GROUND ELEVATION:**  $\pm 2411.8$  **FT. AMSL** 

# VICINITY MAP

# SITE NUMBER: CVL02069 **SITE NAME: BUFFALO HILL**

2065 SLIGER MINE RD. **GREENWOOD, CA 95635** JURISDICTION: ELDORADO COUNTY

# SITE TYPE: MONOPINE/SHELTER

MATION	PROJECT 1	ΓΕΑΜ			
PROPERTY OWNER: GEORGETOWN FIRE DISTRICT PO BOX 424 GEORGETOWN, CA 95634 POWER AGENCY: PG&E PG&E CORPORATION 1 MARKET STREET, SPEAR TOWER SAN FRANCISCO, CA 94105 PH: 1–800–743–5000 TELEPHONE AGENCY: AT&T 525 MARKET STREET, SPEAR TOWER SAN FRANCISCO, CA 94105 PH: 1–800–310–2355	APPLICANT / LESSEE: AT&T 5001 EXECUTIVE PARKWAY SAN RAMON, CA 945834 RF ENGINEER: AT&T CONTACT: ALEXANDER KERRIGAN EMAIL: AK440B@US.ATT.COM PH: (916) 484-2324 PROJECT MGR.: EPIC WIRELESS CONTACT: NICK TAGAS EMAIL: NICK.TAGAS@EPICWIRELESS.NET PH: (916) 990-1446 SITE ACQUISITION: COMPANY: EPIC WIRELESS CONTACT: JARED KEARSLEY (ZONING MGR.) EMAIL: JARED. KEARSLEY (ZONING MGR.) EMAIL: JARED. KEARSLEY (ZONING MGR.) EMAIL: JARED. KEARSLEY (ZONING MGR.) EMAIL: JARED. KEARSLEY (ZONING MGR.) EMAIL: ONSTRUCTION MGR.: CONSTRUCTION MGR.: COMPANY: EPIC WIRELESS CONTACT: PETE MANAS EMAIL: PETE.MANAS@EPICWIRELESS.NET PH: (530) 383-5957	A&E DESIGN GROUP: COMPANY: EPIC WIRELESS CONTACT: JIM RUSSEL JIM.RUSSEL@EPICWIRELESS.NET PH: (916) 716–4948 ARCHITECT / ENGINEER: ADAPTIVE RE–USE ENGINEERING CONTACT: CRAIG HORNER, PE & EMAIL: CRAIGMHORNER@YAHOO.O PH: (214) 407–3184 CIVIL VENDOR.: VINCULUMS CM CONTACT: KEN ABEL EMAIL: KABEL@VINCULUMS.COM PH: (916) 844–4602	34674	T-1 GN-1 C-2 C-2.1 A-1 A-1.1 A-2 A-3 A-4 A-4.1	TITLE SHEET GENERAL NOTES SITE SURVEY (BY C EROSION CONTROL GRADING PLAN & I OVERALL SITE PLAN SITE PLAN — EXTE EQUIPMENT AREA P ANTENNA PLAN & PROPOSED MONOPI PROPOSED MONOPI
RFDS DATED 02-10-2017, ISSUE 1.0 REVISION 1.00.03					
1AP	DIRECTIONS FR	OM AT&T			
	<ul> <li>DIRECTIONS FROM AT&amp;T'S OFFICE AT 2600 CAMINO</li> <li>GET ON I-680 N FROM FOSTORIA WAY AND CROW CANYON PL</li> <li>HEAD SOUTH ON SAN RAMON VALLEY BLVD TOWARD DEERWOOD</li> <li>TURN LEFT ONTO FOSTORIA WAY 0.2 MI</li> <li>TURN RIGHT AT THE 1ST CROSS STREET ONTO CROW CANYON</li> <li>TURN RIGHT AT THE 1ST CROSS STREET ONTO CROW CANYON</li> <li>TURN RIGHT AT THE 1ST CROSS STREET ONTO CROW CANYON</li> <li>TURN RIGHT AT THE 1ST CROSS STREET ONTO CROW CANYON</li> <li>TURN RIGHT AT THE 1ST CROSS STREET ONTO CROW CANYON</li> <li>TURN RIGHT ONTO CROW CANYON RD 292 FT</li> <li>USE THE RIGHT 2 LANES TO MERGE ONTO 1-680 N VIA THE 1</li> <li>FOLLOW I-680 N AND I-80 E TO ELM AVE IN AUBURN. TAKE (114 MI)</li> <li>MERGE ONTO I-680 N 9.2 MI</li> <li>KEEP LEFT TO STAY ON I-680 N 5.9 MI</li> <li>KEEP LEFT AT THE FORK TO STAY ON I-680 N 5.9 MI</li> <li>KEEP LEFT AT THE FORK TO STAY ON I-680 N 5.9 MI</li> <li>KEEP LEFT AT THE FORK TO STAY ON I-680 E 12.1 MI</li> <li>KEEP RIGHT AT THE FORK TO STAY ON I-80 E, FOLLOW SIGN</li> <li>TAKE CA-193 E TO SLIGER MINE RD IN EL DORADO COUNTY</li> <li>TURN LEFT ONTO CA-49 S/EL DORADO ST CONTINIMI</li> <li>TURN LEFT ONTO CA-193 E 6.2 MI</li> </ul>	, 3 min (0.9 mi) D RD 20 ft PL 0.2 mi RAMP TO SACRAMENTO 0.4 mi EXIT 119C FROM I-80 E 1 h 40 min TO 0.4 mi S FOR RENO 37.7 mi 26 min (14.7 mi) 2 mi			
TIONS	APPRO\	/ALS			
	APPROVED BY: AT&T:	INITIALS:	DATE:		
	VENDOR:				GENERAL CO
	R.F.: LEASING / LANDLORD:				DO NOT SCALE DRA
	ZONING: CONSTRUCTION: POWER / TELCO: PG&E:				THESE DRAWINGS ARE FORMA SHALL VERIFY ALL PLANS AND JOBSITE AND SHALL IMMEDIAT ANY DISCREPANCIES BEFORE OR BE RESPONSIBLE FOR TH

SHEET INDEX

OTHERS) FOR REFERENCE ONLY L NOTES DETAILS AN - EXTERIOR EQUIPMENT SHELTER TERIOR EQUIPMENT SHELTER PLAN – EXTERIOR EQUIPMENT SHELTER DETAILS - MONOPINE )PINE NORTH – SOUTH ELEVATION PINE WEST - EAST ELEVATION

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	OF CALLED						
			I OF LAW FOR ANY				
	PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.						
	Eng	gineer:					
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	(	Craig Horn	IEERING her, PE 84674				
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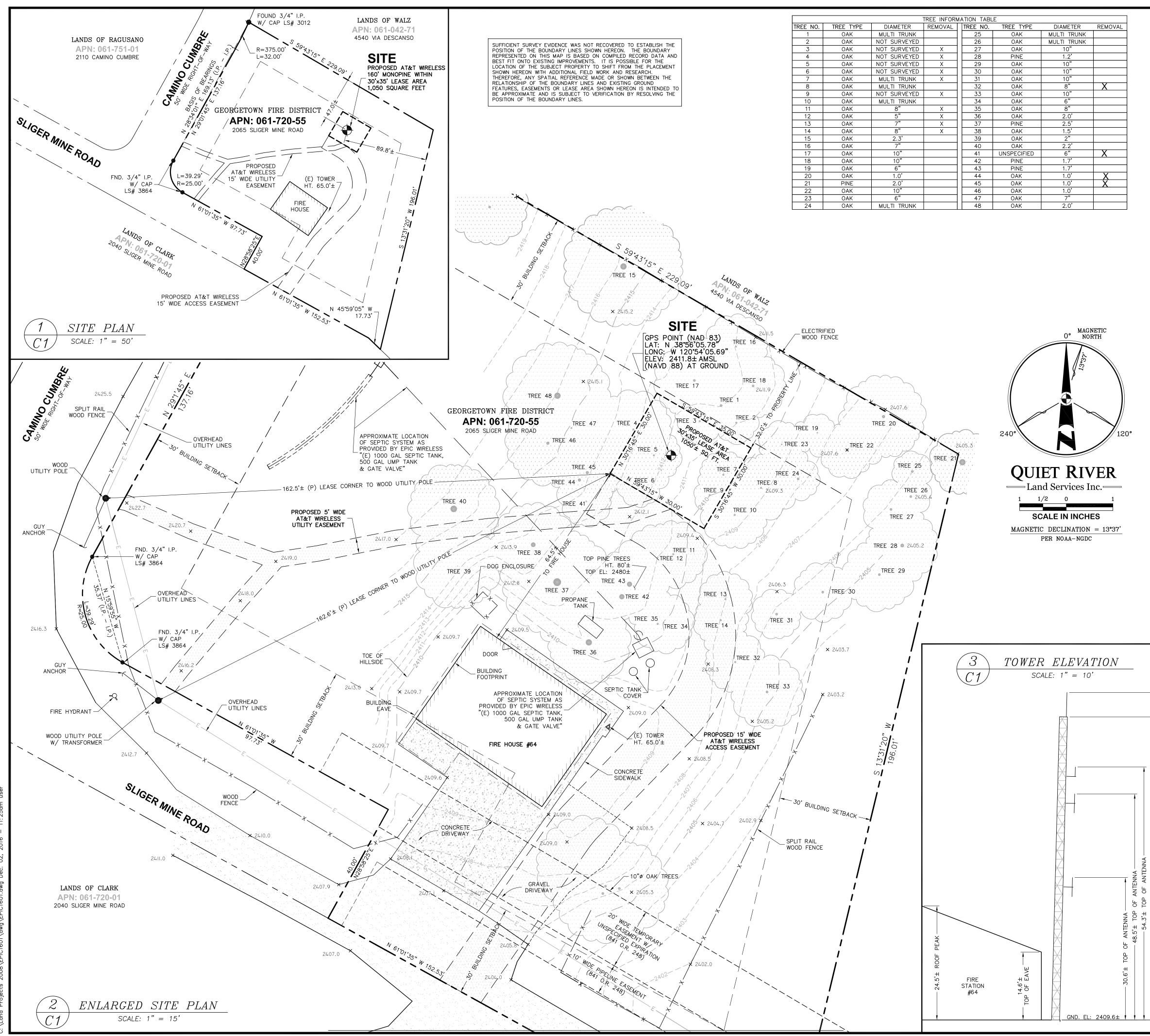
**Exhibit** F

# ONTRACTOR NOTES

RAWINGS

MATTED TO BE FULL SIZE AT 24" x 36". CONTRACTOR AND EXISTING DIMENSIONS AND CONDITIONS ON THE NATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF RE PROCEEDING WITH THE WORK OR MATERIAL ORDERS THE SAME.





		DATE:		ĺ
	<u>VICINITY MAP</u> NOT TO SCALE		DECEMBER 2, 2016	
		DRAW	N BY: RO	
	2 Junior State	FILE N	NO.: EPIC1601	
			REVISIONS	
	CAMINO CUMBRE		DESCRIPTION INITI	
	(80) ROQUERO CERO ROAD	DATE		
	SLIGER MINE ROAD	10/12/16	90% ISSUE RC	
		10/19/16	AS PER CLIENT REDLINES MA	
	(49)	12/2/16	100% COMPLETE MA	.5
	AUBURN			
	TO ROSENULE			
	ROSE			
	GREENWOOD			
	GREENWOOD F COLONAR			
	<u>PROPERTY INFORMATION</u> Owner: GEORGETOWN FIRE DISTRICT			
	Address: PO BOX 424		LLTY Drive 94588	
	GEORGETOWN, CA 95634			
	Site:CVL02069 / BUFFALO HILL Address: 2065 SLIGER MINE ROAD		on, we contract the second sec	
	GREENWOOD, CA 95635		30 Rd asante	
	Assessor's Parcel Number: <u>061–720–55</u>		AT&T MO 4430 Rosewo Pleasanton, Q	
	Height of Building/Tower:N/A			
	<i>Title Report:</i> TITLE REPORT FOR THIS PROPERTY WAS PROVIDED BY FIRST AMERICAN TITLE			
	COMPANY, REPORT NO. 3420-5286821, DATED AS OF SEPTEMBER 8, 2016.			
	Legal Description:			
	PROPERTY SITUATED IN THE CITY OF GREENWOOD, COUNTY OF EL DORADO, STATE OF CALIFORNIA.			
		Í	$\langle M N N M \rangle$	
)°				
	FEMA FLOOD ZONE DESIGNATION National Flood Insurance Program			
	County: EL DORADO Effective Date: SEPTEMBER 26, 2008 Community-Panel Number: 06017C-0200-E			
	The Flood Zone Designation for this site as plotted by scale is:			
	ZONE X — Areas determined to be outside the 0.2% annual chance floodplain	/		
	SURVEY DATA			
	<u>NAD 83 Datum:</u> Lat: N 38*56'05.78" Long: W 120*54'05.69"			
	Datum Base: <u>NAD 83</u> Equipment Used: <u>Topcon Hiperlite Receiver</u>			
	<u>(See Note 2)</u> Site Ground Elevation: 2411.8± (NAVD88) AT GPS SITE LOCATION		s Inc	
	Basis of Elevations: GLOBAL POSITIONING SYSTEM (GPS)		es . Pho	
	(SEE NOTE 2)		Vices A 94568 CA88 Ph	
	Basis of Bearings: CALIFORNIA COORDINATES ZONE II AND TWO FOUND IRON PIPE MONUMENTS AS SHOWN ON THAT CERTAIN TRACT MAP FILED IN BOOK F OF MAPS AT PAGE 51,		CALL CALL	
	RECORDS OF EL DORADO COUNTY. Date of Field Survey: OCTOBER 5, 2016		JIET RI and Services Dublin, CA 9456 (925) 734-6788 P	
			Dublin (925)	
	<u>NOTES</u> 1.) This is not a boundary survey. This is a specialized topographic map with property lines			
	and easements being a graphic depiction of various information gathered from preliminary title reports, back—up documents of record, maps and available monuments found during the field survey. No property monuments were set. No title research was performed by Quiet			
	River Land Services, Inc.			
Ĭ	2.) The latitude, longitude and elevation shown hereon were derived from post-processed L-1/L-2 data collected using Navstar Global Positioning System (GPS) and a Topcon Hiperlite Receiver. Topcon specifications report decimeter level accuracy (horizontally) when data is		n Val	
	properly collected and processed. (Elevation = ±3.0 feet.) 3.) Unless otherwise noted, no underground utility locating service company was contacted			
	prior to this map being prepared; therefore, there may be non-visible or obscure utilities existing on the property not shown on this map — so CALL BEFORE YOU DIG.			
	4.) Any electronic digital media provided by Quiet River Land Services, Inc. to our client is a courtesy and is not to be reproduced, distributed, sold, altered, revised, edited or amended without the express written consent of an Officer of Quiet River Land Services Inc. Further	<b>—</b> ,		
<u> </u>	without the express written consent of an Officer of Quiet River Land Services, Inc. Further, only the final stamped, signed and dated original "hard copy" version of our survey or map is considered to be our legally recognized product.		TING SITE CONDITIONS	
	SURVEYOR'S STATEMENT			
		Í	ED LAND ST	
	I, the undersigned, a Registered Professional Land Surveyor licensed under the laws of the State of California do hereby state that the information, measurements, easements, record boundary lines, bearings and distances as shown hereon are based upon a field survey as			
WER	dated above and upon items of public record and data contained in a title report, as referenced. Furthermore, the Latitude and Longitude coordinates are reported in NAD 83 Datum and are accurate to within ±15 feet horizontally, and the ground elevation, reported in		KEVIN M. McGUIRE	
Ê ц	NAVD 1988 Datum, is within ±3 feet vertically. The coordinate values and elevations are within the 1-A Accuracy Code designation as listed in the A.S.A.C. Information Sheet 91:003 and are accurate to the best of my knowledge and belief.		Exp. 12−31−16	
ENNA P OF TOP (			No. <u>6437</u>	
F ANTENNA	<u> </u>	ĺ	OF CALIFORN	
OF ANTE TOP OF — 65.0'± — 70	SIGNATURE DATE			
0 Ĕ			CVL02069	
5, 1 54	APN: ASSESSOR'S PARCEL NUMBER ASPHALT CP CONTROL POINT CONCRETE	Í	BUFFALO HILL	
48.	EL. ELEVATION	20	065 SLIGER MINE ROAD	
	FND. FOUND		REENWOOD, CA 95635	
	HT. HEIGHT MON. MONUMENT GPS POINT		_	
	(M-M) MONUMENT TO MONUMENT P.O.B. POINT OF BEGINNING P 15.3 PARAPET/ROOF ELEVATIONS		<b>C1</b>	
	P.O.C. POINT OF COMMENCEMENT × 12.3 SPOT ELEVATION	Í		
<u>+ + + +</u>	PP     POWER POLE       (TYP.)     TYPICAL         TEMPORARY BENCHMARK	Í	OF 1 SHEET	

# **GENERAL CONSTRUCTION NOTES:**

- 1. PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- 3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227–2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- 4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- 5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC/UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- 6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
- 7. THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- 8. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- 9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- 10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- 11. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- 12. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO IT'S ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
- 13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- 14. INCLUDE MISC. ITEMS PER AT&T SPECIFICATIONS

# **APPLICABLE CODES, REGULATIONS AND STANDARDS:**

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.

THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

-AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

-AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION

- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES -INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH
- SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.

-IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK

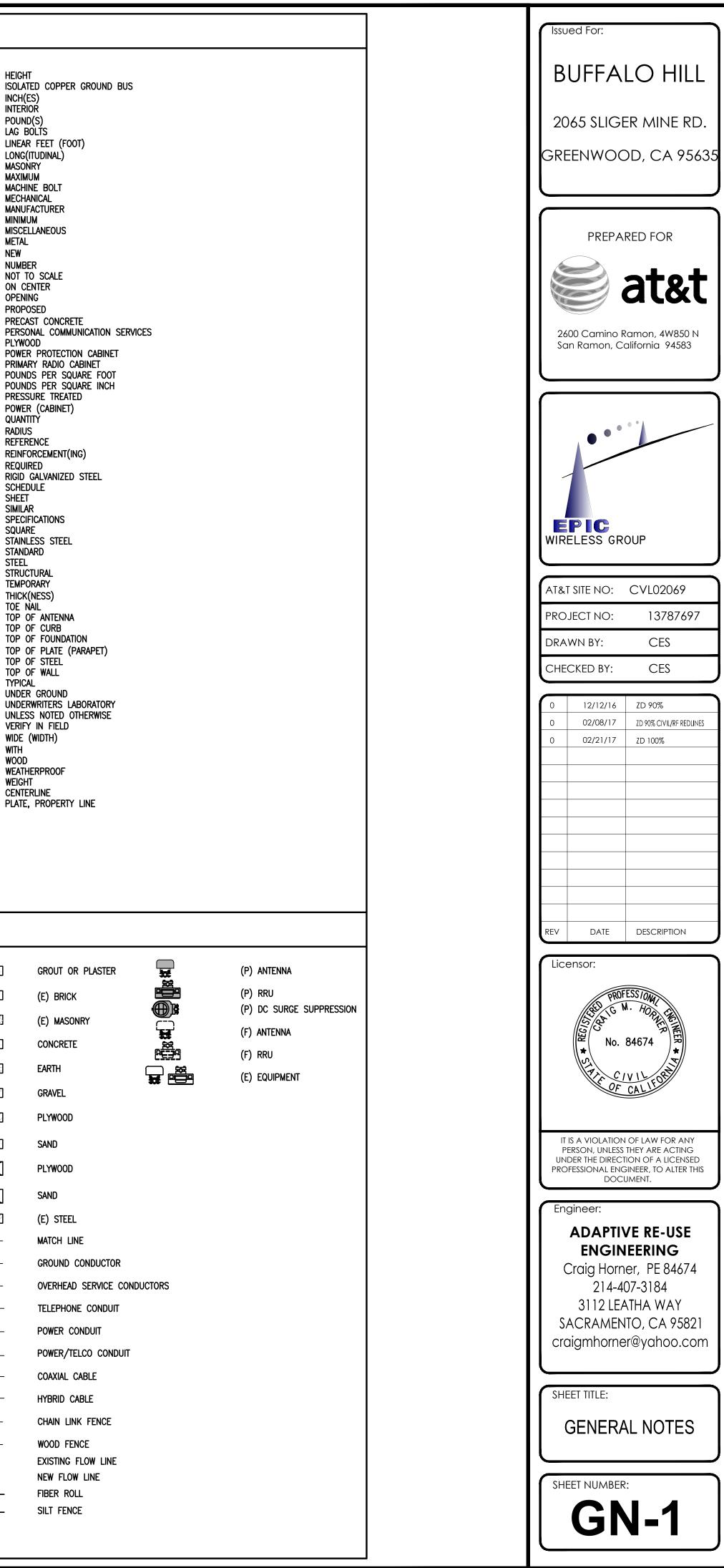
- EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
- TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS

TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS

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

### **ABBREVIATIONS** ANCHOR BOLT HT. A.B. HEIGHT ICGB. ABV. ABOVE ACCA ANTENNA CABLE COVER ASSEMBLY IN. ( INCH(ES) ADD'L ADDITIONAL INT. INTERIOR A.F.F. ABOVE FINISHED FLOOR LB.(#) POUND(S) A.F.G. ABOVE FINISHED GRADE LAG BOLTS L.B. ALUM. ALUMINUM L.F. ALT. ALTERNATE LONG(ITUDINAL ANT. ANTENNA MAS MASONRY APPRX. APPROXIMATE(LY MAX. MAXIMUM ARCH. ARCHITECT(URAL) M.B. MACHINE BOLT AWG. AMERICAN WIRE GAUGE MECH. MECHANICAL BLDG. BUILDING MFR. MANUFACTURER BLK. BLOCK MIN. MINIMUM BLKG. MISCELLANEOUS BLOCKING MISC. BM. BFAM MTL. METAL BOUNDARY NAILING B.N. (N) NEW BTCW. BARE TINNED COPPER WIRE NUMBER NO.(#) B.O.F. BOTTOM OF FOOTING N.T.S. NOT TO SCALE B/U BACK-UP CABINET 0.C. ON CENTER CAB. CABINET OPNG. OPENING CANT. C.I.P. CANTILEVER(ED) PROPOSED (P) CAST IN PLACE P/C CLG. CEILING PCS CLR. CLEAR PLY. PLYWOOD COL. COLUMN PPC PRC CONC. CONCRETE CONN. CONNECTION(OF P.S.F. CONST. CONSTRUCTION P.S.I. CONT. CONTINUOUS P.T. PENNY (NAILS) PWR. DOUBLE DBL QTY. QUANTITY DEPT. DEPARTMENT RAD.(R) RADIUS D.F. DOUGLAS FIR REF. REFERENCE DIA DIAMETER REINF. DIAG. DIAGONAL REQ'D/ REQUIRED DIM. DIMENSION RGS. DWG. DRAWING(S) SCH. SCHEDULE DWL. DOWEL(S) SHT. SHEET EACH SIM. SIMILAR ELEVATION SPEC. SPECIFICATIONS ELEC. ELECTRICAL SQ. S.S. STD. SQUARE ELEV. ELEVATOR STAINLESS STEEL EMT. ELECTRICAL METALLIC TUBING STANDARD E.N. EDGE NAIL STL. STEEL ENG. ENGINEER STRUC. STRUCTURAL EQUAL EQ. TEMP. TEMPORARY EXP. EXPANSION THK. THICK(NESS) EXST.(E) EXISTING T.N. TOE NAIL EXT. EXTERIOR T.O.A. FUTURE (F) T.O.C. TOP OF CURB FAR T.O.F. FABRICATION(OR FINISH FLOOR F.F. T.O.P. F.G. FINISH GRADE T.O.S. TOP OF STEEL FIN. FINISH(ED) T.O.W. TOP OF WALL FLR. FLOOR TYP. TYPICAL FDN. FOUNDATION U.G. UNDER GROUND F.O.C. FACE OF CONCRETE U.L F.O.M. FACE OF MASONRY U.N.O. F.0.S. FACE OF STUD V.I.F. VERIFY IN FIELD F.O.W. FACE OF WALL WIDE (WIDTH) F.S. FINISH SURFACE WITH FT.(' FOOT (FEET) WOOD FTG. FOOTING **WEATHERPROOF** GROWTH (CABINET WEIGHT GA. GAUGE CENTERLINE GALVANIZE(D) GROUND FAULT CIRCUIT INTERRUPTER G.F.I. GLB. (GLU-LAM) GLUE LAMINATED BEAM GPS GLOBAL POSITIONING SYSTEM GRND. GROUND HEADER HDR. HGR. HANGER SYMBOLS LEGEND BLDG. SECTION A-300 \ A-300 / ROAD SECTION WALL SECTION ' A5 A-310 / D5 ` DETAIL A-500 ELEVATION $\sim$ (001) DOOR SYMBOL $\langle 10 \rangle$ WINDOW SYMBOL · · \_\_\_\_ · · \_\_\_\_ — ОН —— (3)TILT-UP PANEL MARK ——— TELCO ——— PROPERTY LINE ——— POWER ——— CENTERLINE — ELEVATION DATUM ------ HYBRID ------GRID/COLUMN LINE -0-----0------KEYNOTE, DIMENSION 3 ITFM KEYNOTE. CONSTRUCTION ITEM WALL TYPE MARK W-3-OFFICE ROOM NAME ROOM NUMBER 101



BEST MANAGEMENT PRACTICES	LOCATION	SCHEDULE IMPLEMENTATION	MAINTENANCE SCHEDULE	1.
PRESER VING EXISTING VEGETATION	AROUND PERIMETER OF PROJECT SITE	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	EDUCATE EMPLOYEES AND SUBCONTRACTORS REGARDING IMPORTANCE OF MAINTAINING EXISTING VEGETATION TO PREVENT EROSION AND FILTER OUT SEDIMENT IN RUNOFF FROM DISTURBED AREAS ON THE CONSTRUCTION SITE. INSPECT SITE PERIMETER MONTHLY TO VERIFY THE OUTSIDE VEGETATION IS NOT DISTURBED.	2. 3.
PROTECT GRADED AREAS AND SLOPES FROM WASHOUT AND EROSION	THROUGHOUT PROJECT SITE	CONTINUOUS	INSPECT GRADED AREAS AND SLOPES ON AT LEAST A MONTHLY BASIS TO CHECK FOR EROSION. THE GRADE TRIBUTARY AREAS OR INSTALL SAND DIKES AS NECESSARY TO PREVENT EROSION.	4. 5.
GRAVEL FILTER	ALONG FLOW LINES OF UNPAVED ROADWAYS WITHIN SITE	IN PLACE CONTINUOUSLY UNTIL ROADWAYS ARE PAVED	INSPECT AFTER EACH STORM. REMOVE ONSITE SEDIMENT DEPOSITED BEHIND BERM OR BARRIER TO MAINTAIN EFFECTIVENESS.	6.
BAG INLET FILTER	INLETS TO THE STORM DRAINAGE SYSTEM	CONTINUOUS UNTIL LANDSCAPING IS IN PLACE	INSPECT WEEKLY AND AFTER EACH STORM. REMOVE SEDIMENT AND DEBRIS BEFORE ACCUMULATION HAVE REACHED ONE THIRD THE DEPTH OF THE BAG. REPAIR OR REPLACE INLET FILTER BAG AS SOON AS DAMAGE OCCURS.	7. 8.
FIBER ROLLS	SEE NOTE 3 OF EROSION & CONTROL NOTES	CONTINUOUS	INSPECT AFTER EACH STORM. REMOVE SEDIMENT DEPOSITED BEHIND FIBER ROLLS WHENEVER NECESSARY TO MAINTAIN EFFECTIVENESS.	
HYDROSEEDING	3:1 SLOPES	IN PLACE DURING BY SEPT. 15	INSPECT SLOPES ON AT LEAST A MONTHLY BASIS TO CHECK FOR EROSION. IF EROSION IS NOTED, SPREAD STRAW MULCH OVER AFFECTED AREAS.	9. 10.
STABILIZED CONSTRUCTION ENTRANCE	ENTRANCES TO SITE FROM PUBLIC ROADWAYS	CONTINUOUS, UNTIL ENTRANCES AND ONSITE ROADWAYS ARE PAVED	INSPECT ON A MONTHLY BASIS AND AFTER EACH RAINFALL. ADD AGGREGATE BASE MATERIAL WHENEVER NECESSARY TO PREVENT SEDIMENT FROM BEING TRACKED INTO PUBLIC STREET.	11. 12.
WIND EROSION CONTROL PRACTICES	WHEREVER NECESSARY THROUGHOUT PROJECT SITE	CONTINUOUS UNTIL GRADING IS COMPLETED AND SOILS HAVE STABILIZED	INSPECT SITE DURING WINDY CONDITIONS TO IDENTIFY AREAS WHERE WIND AND EROSION IS OCCURRING AND ABATE EROSION AS NECESSARY.	13. 14.
GOOD HOUSEKEEPING MEASURES	THROUGHOUT PROJECT SITE	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	INSPECT SITE ON AT LEAST A MONTHLY BASIS TO VERIFY GOOD HOUSEKEEPING PRACTICES ARE BEING IMPLEMENTED.	
PROPER CONSTRUCTION MATERIAL STORAGE	DESIGNATED AREA	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	INSPECT SITE ON AT LEAST A WEEKLY BASIS TO VERIFY THAT CONSTRUCTION MATERIALS ARE STORED IN A MANNER WHICH COULD NOT CAUSE STORM WATER POLLUTION.	
ROPER CONSTRUCTION ASTE STORAGE AND ISPOSAL INCLUDING	DESIGNATED COLLECTION AREA AND CONTAINERS	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	INSPECT SITE ON AT LEAST A WEEKLY BASIS TO ASSURE WASTE IS STORED PROPERLY AND DISPOSED OF AT LEGAL DISPOSAL SITE, DAILY.	
CONCRETE SPILL CLEANUP PAINT & PAINTING SUPPLIES	MATERIAL HANDLING AREAS	IMMEDIATELY AT TIME OF SPILL	INSPECT MATERIAL HANDLING AREAS ON AT LEAST A MONTHLY BASIS TO VERIFY PROPER SPILL CLEANUP.	
VEHICLE FUELING, MAINTENANCE & CLEANING	DESIGNATED AREA WITH SECONDARY CONTAINMENT	CONTINUOUS	KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ON SITE & INSPECT ON REGULAR SCHEDULE.	
STREET AND STORM DRAINAGE FACILITY MAINTENANCE DEFINITION	STREETS AND STORM DRAINAGE S FACILITIES	CONTINUOUS UNTIL CONSTRUCTION IS COMPLETED	MAINTAIN STORM DRAINAGE FACILITIES AND PAVED STREETS CLEAR OF SEDIMENT AND DEBRIS.	
SEASON MEASURES IF 2. PHASES OF GRADING	WET WEATHER IS EXPE	CTED DURING THE DRY	30. CONTRACTOR SHALL ALSO IMPLEMENT WET SEASON	
OUGH: WHEN CUT AND UNDERGROUND	PIPING, STREETS, SIDEW	AND THE SITE IMPRO ALKS, AND OTHER IMP	VEMENTS ARE CONSTRUCTED, INCLUDING ROVEMENTS. TED AND READY FOR CITY ACCEPTANCE.	
IBER ROLL N	IOTES:			

INSPECT FIBER ROLLS WHEN RAIN IS FORECAST, DURING AND FOLLOWING RAIN EVENTS, AT LEAST DAILY DURING PROLONGED RAINFALL. FOR SPECIFIC MONITORING INTERVALS REFER TO THE CURRENT VERSION OF STORM WATER "BMP" MANUAL FOR DURING THE NON-RAINY SEASON.

SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-HALF THE DESIGNATED SEDIMENT STORAGE DEPTH. USUALLY ONE-HALF THE DISTANCE BETWEEN THE TOP OF THE FIBER ROLL AND THE ADJACENT GROUND SURFACE. SEDIMENT REMOVED DURING MAINTENANCE MAY BE INCORPORATED INTO THE EARTHWORK ON THE SITE OR DISPOSED AT AN APPROPRIATE LOCATION.

. FILTER BARRIER SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS THE EXPECTED FLOW PATH AND AS APPROVED BY THE LANDSCAPE INSPECTOR.

# RUCTION EROSION/SEDIMENTATION PLAN NOTES:

CONTRACTOR SHALL FOLLOW TYPICAL GUIDELINES FOR GRADING. EROSION SEDIMENT CONTROL FOR THE MEASURES SHOWN OR STATED ON THESE

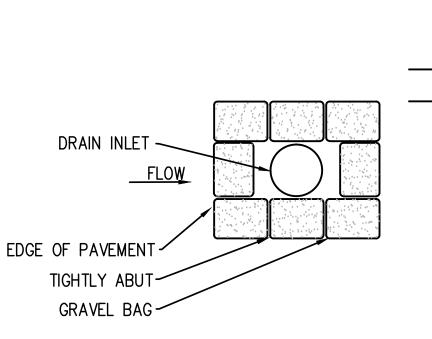
- ACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR E ONSET OF ANY STORM. CONTRACTOR SHALL HAVE ALL EROSION AND ENT CONTROL MEASURES IN PLACE FOR THE WINTER MONTHS PRIOR TO 3ER 1.
- ROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL RBED AREAS ARE STABILIZED. CHANGES TO THIS EROSION AND SEDIMENT ROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE OVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF THE RTMENT OF UTILITIES.
- PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING FRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE TION OF A REPRESENTATIVE OF THE DEPARTMENT OF UTILITIES. ROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BEFORE IG AND AFTER ALL STORMS TO ENSURE MEASURES ARE FUNCTIONING
- ERLY. REFER TO CURRENT VERSION OF STORMWATER "BMP" MANUAL FOR FIC SCHEDULE PER SITE CONDITIONS.
- RACTOR SHALL MAINTAIN A LOG AT THE SITE OF ALL INSPECTIONS OR ENANCE OF BMPS. AS WELL AS. ANY CORRECTIVE CHANGES TO THE BMPS ROSION AND SEDIMENT CONTROL PLAN.
- EAS WHERE SOIL IS EXPOSED, PROMPT REPLANTING WITH NATIVE ATIBLE, DROUGHT-RESISTANT VEGETATION SHALL BE PERFORMED. NO
- WILL BE LEFT EXPOSED OVER THE WINTER SEASON. CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE PRIOR IMMENCEMENT OF CONSTRUCTION WHEN APPLICABLE FOR SITES NOT
- SSIBLE BY COMMERCIALLY PREPARED ACCESSES. LOCATION OF THE NCE MAY BE ADJUSTED BY THE CONTRACTOR TO FACILITATE
- IRUCTION OPERATIONS. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE. THE STABILIZED IRUCTION ENTRANCE (WHEN APPLICABLE) SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
- EDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE SWEPT AT THE END CH WORKING DAY OR AS NECESSARY
- RACTOR SHALL PLACE GRAVEL BAGS AROUND ALL NEW DRAINAGE
- TURE OPENINGS IMMEDIATELY AFTER THE STRUCTURE OPENING IS IRUCTED. THESE GRAVEL BAGS SHALL BE MAINTAINED AND REMAIN IN UNTIL CONSTRUCTION IS COMPLETED
- NTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT (ING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY RE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED AP SEDIMENT.
- NECESSARY. WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO C RIGHT-OF-WAY.
- WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH HED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR ENT BASIN.
- ACTOR SHALL IMPLEMENT HOUSEKEEPING PRACTICES AS FOLLOWS:

# LID WASTE MANAGEMENT:

- VIDE DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS. ARRANGE R REGULAR REMOVAL AND DISPOSAL. CLEAR SITE OF TRASH INCLUDING GANIC DEBRIS, PACKAGING MATERIALS, SCRAP OR SURPLUS BUILDING TERIALS AND DOMESTIC WASTE DAILY.
- ERIAL DELIVERY AND STORAGE:
- VIDE A DESIGNATED MATERIAL STORAGE AREA WITH SECONDARY NTAINMENT SUCH AS BERMING. STORE MATERIAL ON PALLETS AND PROVIDE VERING FOR SOLUBLE MATERIALS. RELOCATE STORAGE AREA INTO BUILDING ELL WHEN POSSIBLE. INSPECT AREA DAILY
- ICRETE WASTE: IVIDE A DESIGNATED AREA FOR A TEMPORARY PIT TO BE USED FOR NCRETE TRUCK WASH-OUT. DISPOSE OF HARDENED CONCRETE OFFSITE. NO TIME SHALL A CONCRETE TRUCK DUMP ITS WASTE AND CLEAN ITS UCK INTO THE CITY STORM DRAINS VIA CURB AND GUTTER. INSPECT LY TO CONTROL RUNOFF, AND WEEKLY FOR REMOVAL OF HARDENED NCRETE.
- NT AND PAINTING SUPPLIES: VIDE INSTRUCTION TO EMPLOYEES AND SUBCONTRACTORS REGARDING DUCTION OF POLLUTANTS INCLUDING MATERIAL STORAGE, USE, AND CLEAN INSPECT SITE DAILY FOR EVIDENCE OF IMPROPER DISPOSAL.
- ICLE FUELING, MAINTENANCE AND CLEANING: OVIDE A DESIGNATED FUELING AREA WITH SECONDARY CONTAINMENT SUCH AS BERMING. DO NOT LOW MOBILE FUELING OF EQUIPMENT. PROVIDE EQUIPMENT WITH DRIP PANS. RESTRICT ONSITE AINTENANCE AND CLEANING OF EQUIPMENT TO A MINIMUM. INSPECT AREA DAILY. ARDOUS WASTE MANAGEMENT:
- EVENT THE DISCHARGE OF POLLUTANTS FROM HAZARDOUS WASTES TO THE DRAINAGE SYSTEM ROUGH PROPER MATERIAL USE, WASTE DISPOSAL AND TRAINING OF EMPLOYEES. HAZARDOUS STE PRODUCTS COMMONLY FOUND ON-SITE INCLUDE BUT ARE NOT LIMITED TO PAINTS & LVENTS, PETROLEUM PRODUCTS, FERTILIZERS, HERBICIDES & PESTICIDES, SOIL STABILIZATION ODUCTS, ASPHALT PRODUCTS AND CONCRETE CURING PRODUCTS.
- "BMP'S" AT ALL PHASES OF CONSTRUCTION.
- VEL BAGS WITH FIBER ROLLS/ SILT BARRIER AND OR BAG INLET FILTERS TO BE USED FOR ET PROTECTION FROM CONSTRUCTION CONTAMINATES. CONTRACTOR TO FIELD IDENTIFY ALL IDITIONS WHERE THIS MAY APPLY AND MAINTAIN DURING THE COURSE OF CONSTRUCTION. THIS ALL APPLY TO THE LOCAL SITE ACTIVITY AS WELL AS ANY AREA TRAVELED EXTENDING TO THE NT OF SITE ACCESS AND ONTO THE PUBLIC RIGHT OF WAYS. NO CONSTRUCTION DEBRIS MAY ER ANY STORM WATER DRAIN AT ANY TIME. THE CONTRACTOR SHALL IMPLEMENT MEASURES TO NITOR THIS AT ALL TIMES DURING THE CONSTRUCTION PHASE.
- AN ALL STORED MATERIALS, INCLUDING BUT NOT LIMITED TO, EXCAVATED SOIL, IMPORTED CK, SAND OR GRAVEL, PAINT, CONCRETE, WOOD, METAL, OR CONTAMINATED WATER SHALL BE STORED PROPERLY TO INSURE NO DISCHARGE OF CONTAMINATES.
- 18. REMOVE DIRT, DEBRIS AND WEEDS FROM PUBLIC SIDE WALK AREAS AND STORM DRAIN SYSTEMS AND ANY CONSTRUCTION MATERIALS OR DEBRIS TO AN APPROVED LOCATION AS ON A DAILY BASIS (OR AS DIRECTED BY THE CITY ENGINEER). A CONCRETE WASHOUT SHALL BE ONSITE AT ALL TIMES. CONTRACTOR TO FIELD VERIFY LOCATION, AND BEST METHOD TO PREVENT SPILLS AND DISCHARGE OF CONCRETE / WATER CONTAMINANTS.
- 19. CONTRACTOR TO FIELD IDENTIFY "BMP"S (BEST MANAGEMENT PRACTICES) PER SITE CONDITIONS. AND REFER TO CURRENT VERSION OF STORMWATER "BMP" MANUAL FOR SPECIFIC SCHEDULES OR DETAILS NOT SPECIFIED IN THIS PLAN.

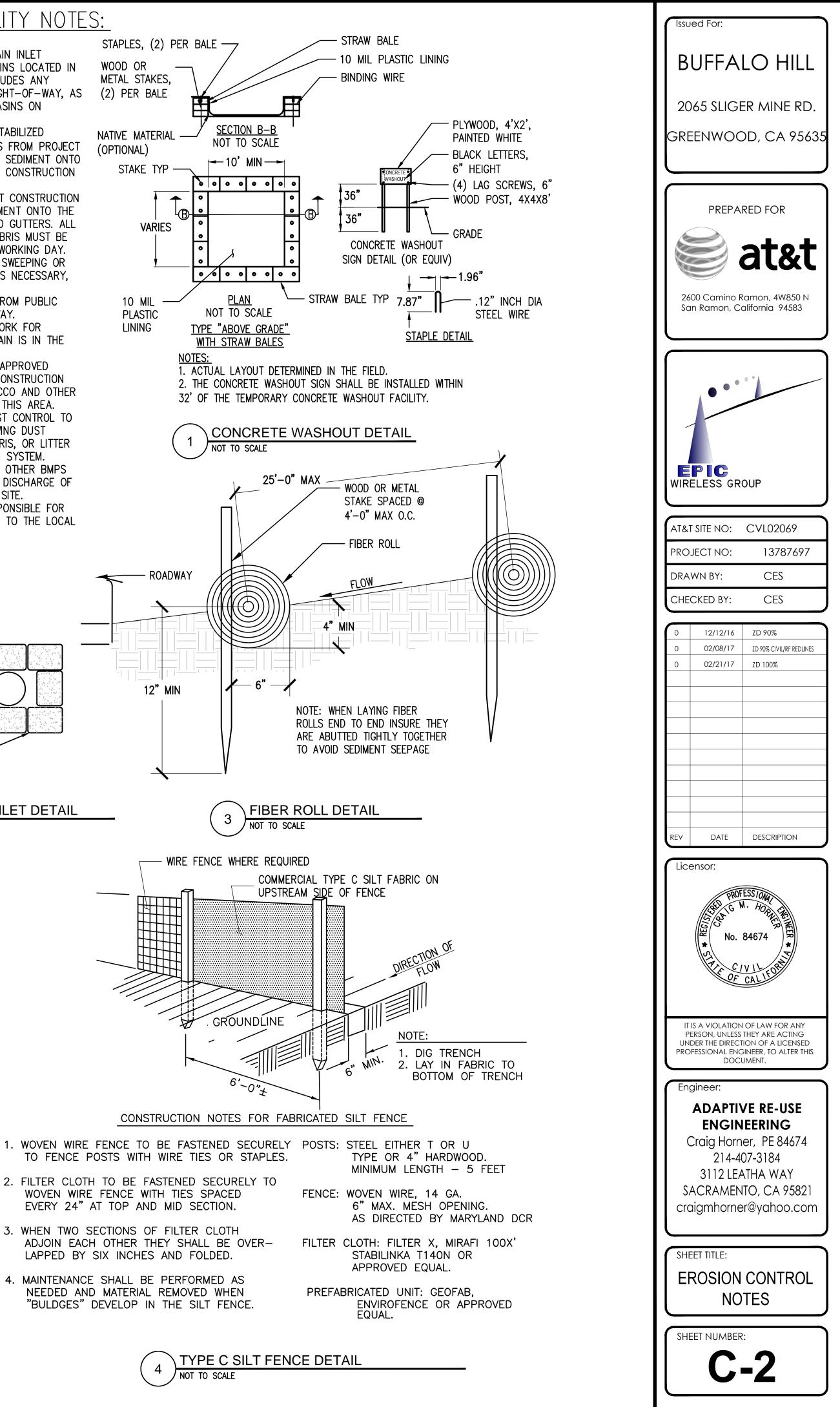
# STORM WATER QUALITY NOTES:

- CONTRACTOR SHALL PROVIDE DRAIN INLET PROTECTION FOR ALL CATCH BASINS LOCATED IN THE VICINITY OF WORK. THIS INCLUDES ANY CATCH BASINS IN THE PUBLIC RIGHT-OF-WAY, AS (2) PER BALE WELL AS ANY ON-SITE CATCH BASINS ON PRIVATE PROPERTY.
- CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE/EGRESS FROM PROJECT SITE TO PREVENT TRACK-OUT OF SEDIMENT ONTO THE PUBLIC RIGHT-OF WAY FROM CONSTRUCTION VEHICLES.
- 3. CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT DEPOSIT SEDIMENT ONTO THE PUBLIC ROADWAY, SIDEWALKS AND GUTTERS. ALL SEDIMENT AND CONSTRUCTION DEBRIS MUST BE REMOVED BY THE END OF EACH WORKING DAY. CONTRACTOR SHALL USE STREET SWEEPING OR
- OTHER DRY SWEEPING METHOD, AS NECESSARY, TO REMOVE CONSTRUCTION OR DEMOLITION-RELATED SEDIMENT FROM PUBLIC SIDEWALKS. GUTTERS AND ROADWAY. CONTRACTOR SHALL SCHEDULE WORK FOR
- DRY-WEATHER DAYS WHEN NO RAIN IS IN THE IMMEDIATE FORECAST. 6. CONTRACTOR SHALL INSTALL AN APPROVED
- WASH-OUT STRUCTURE AT THE CONSTRUCTION SITE. ALL CONCRETE. PAINT. STUCCO AND OTHER LIQUIDS WILL BE WASHED OUT IN THIS AREA. 7. CONTRACTOR SHALL PROVIDE DUST CONTROL TO PREVENT THE NUISANCE OF BLOWING DUST WITHOUT CAUSING SEDIMENT. DEBRIS. OR LITTER TO ENTER THE ANY STORM DRAIN SYSTEM. CONTRACTOR SHALL INSTALL ANY OTHER BMPS AS NECESSARY TO CONTROL THE DISCHARGE OF POLLUTANTS FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION AND ADHERENCE TO THE LOCAL REQUIREMENTS.

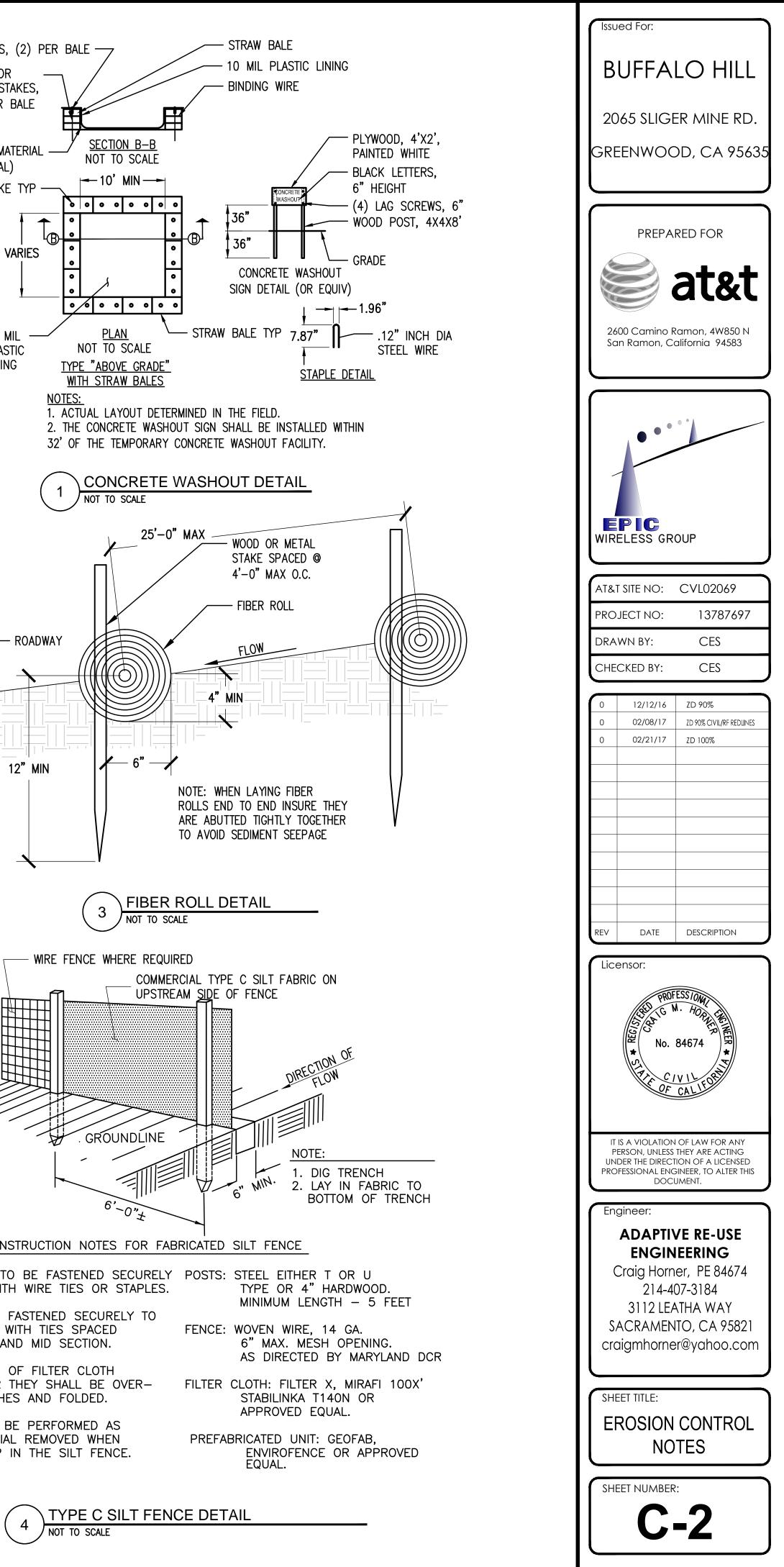


NOT TO SCALE

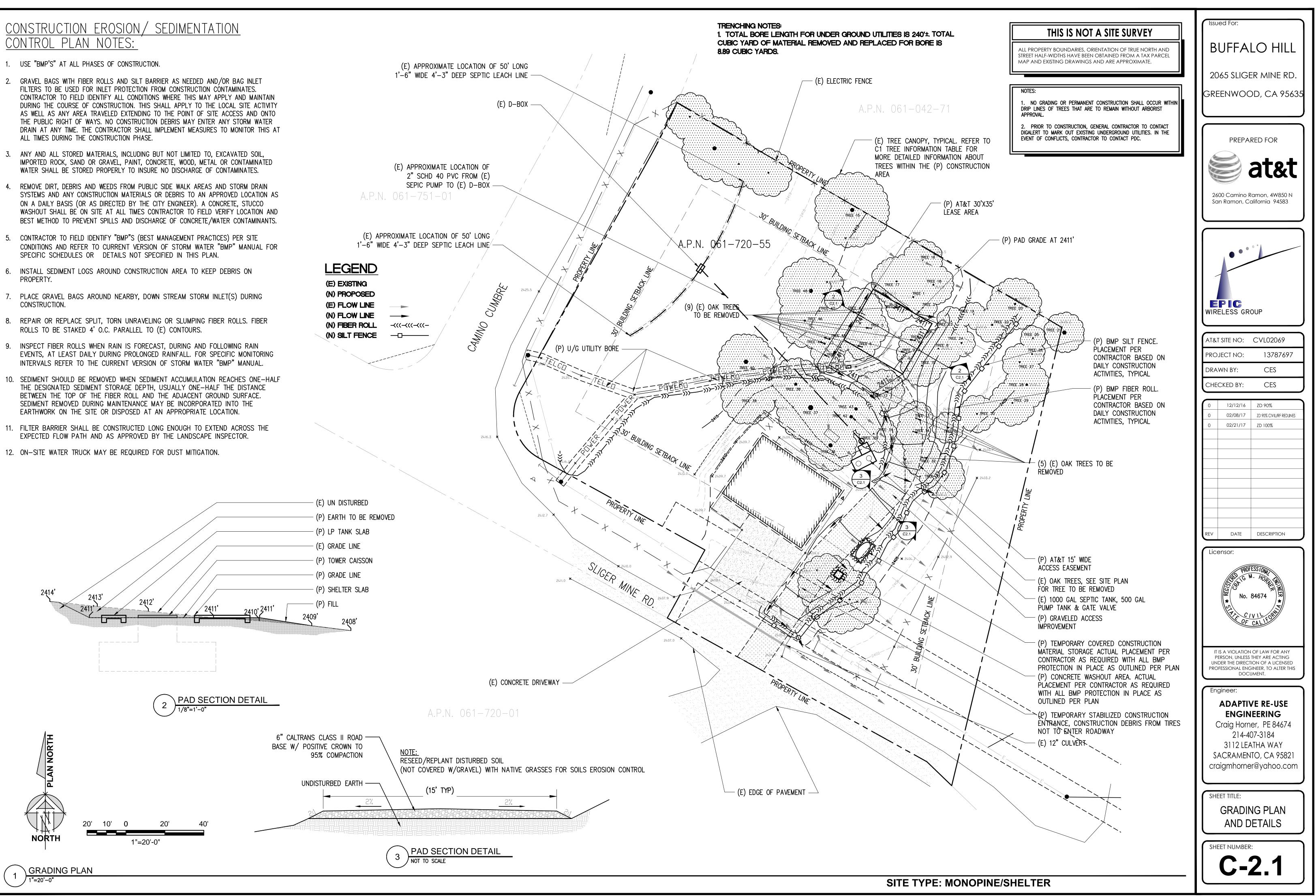
DRAIN INLET DETAIL

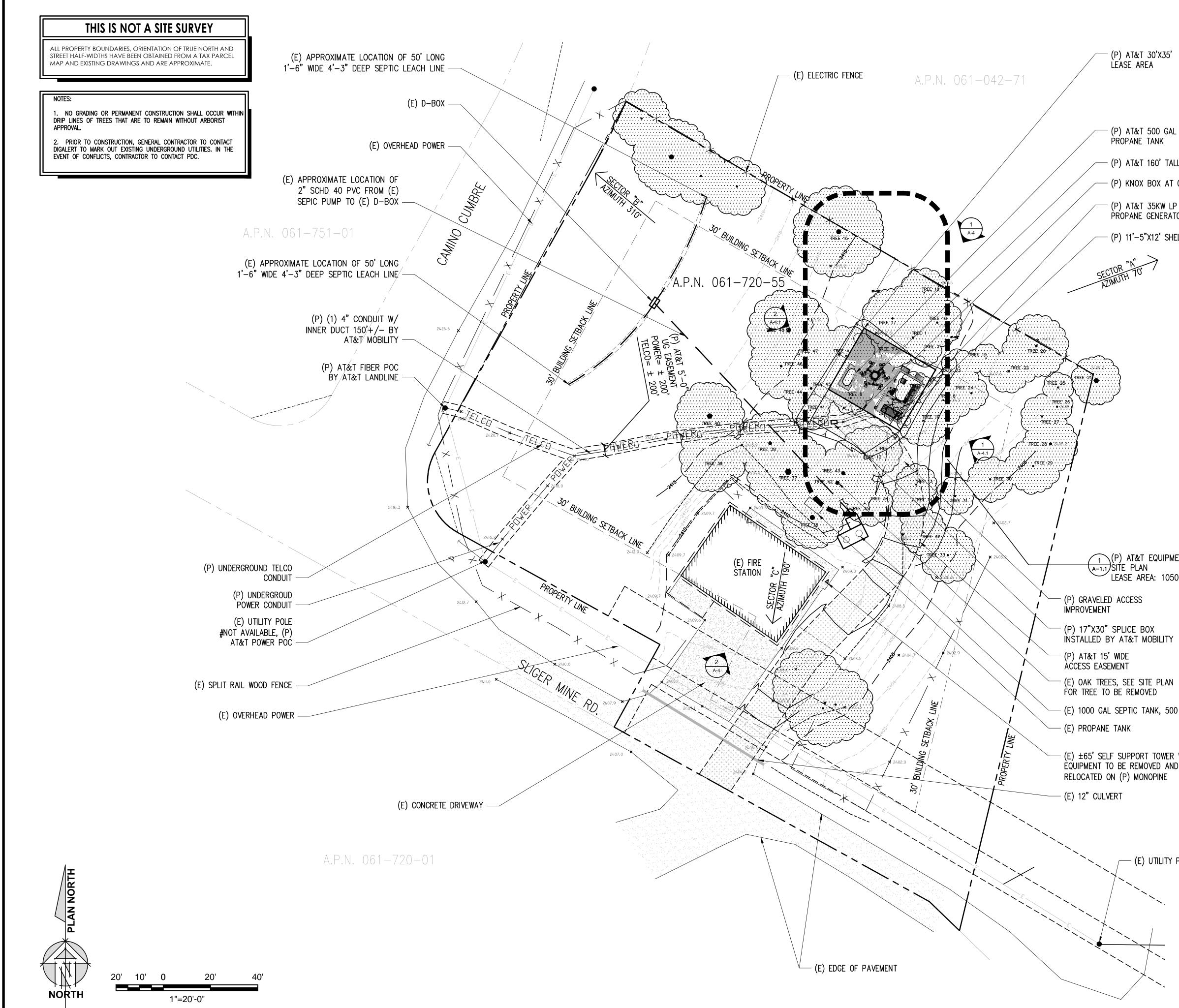


- 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
- 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULDGES" DEVELOP IN THE SILT FENCE.



- FILTERS TO BE USED FOR INLET PROTECTION FROM CONSTRUCTION CONTAMINATES. CONTRACTOR TO FIELD IDENTIFY ALL CONDITIONS WHERE THIS MAY APPLY AND MAINTAIN DURING THE COURSE OF CONSTRUCTION. THIS SHALL APPLY TO THE LOCAL SITE ACTIVITY AS WELL AS ANY AREA TRAVELED EXTENDING TO THE POINT OF SITE ACCESS AND ONTO THE PUBLIC RIGHT OF WAYS. NO CONSTRUCTION DEBRIS MAY ENTER ANY STORM WATER DRAIN AT ANY TIME. THE CONTRACTOR SHALL IMPLEMENT MEASURES TO MONITOR THIS AT ALL TIMES DURING THE CONSTRUCTION PHASE.
- ANY AND ALL STORED MATERIALS, INCLUDING BUT NOT LIMITED TO, EXCAVATED SOIL, WATER SHALL BE STORED PROPERLY TO INSURE NO DISCHARGE OF CONTAMINATES.
- REMOVE DIRT, DEBRIS AND WEEDS FROM PUBLIC SIDE WALK AREAS AND STORM DRAIN ON A DAILY BASIS (OR AS DIRECTED BY THE CITY ENGINEER). A CONCRETE, STUCCO BEST METHOD TO PREVENT SPILLS AND DISCHARGE OF CONCRETE/WATER CONTAMINANTS.
- CONTRACTOR TO FIELD IDENTIFY "BMP"S (BEST MANAGEMENT PRACTICES) PER SITE SPECIFIC SCHEDULES OR DETAILS NOT SPECIFIED IN THIS PLAN.
- PROPERTY.
- CONSTRUCTION.
- ROLLS TO BE STAKED 4' O.C. PARALLEL TO (E) CONTOURS.
- INTERVALS REFER TO THE CURRENT VERSION OF STORM WATER "BMP" MANUAL.
- BETWEEN THE TOP OF THE FIBER ROLL AND THE ADJACENT GROUND SURFACE. SEDIMENT REMOVED DURING MAINTENANCE MAY BE INCORPORATED INTO THE EARTHWORK ON THE SITE OR DISPOSED AT AN APPROPRIATE LOCATION.





∖ OVERALL SITE PLAN

1"=20'-0"

<sup>–</sup> (P) AT&T 30'X35' LEASE AREA

- (P) AT&T 500 GAL LP PROPANE TANK

— (P) AT&T 160' TALL MONOPINE

- (P) KNOX BOX AT GATE

- (P) AT&T 35KW LP PROPANE GENERATOR

— (P) 11'–5"X12' SHELTER

(P) AT&T EQUIPMENT (A-1.1) SITE PLAN LEASE AREA: 1050 S.F.

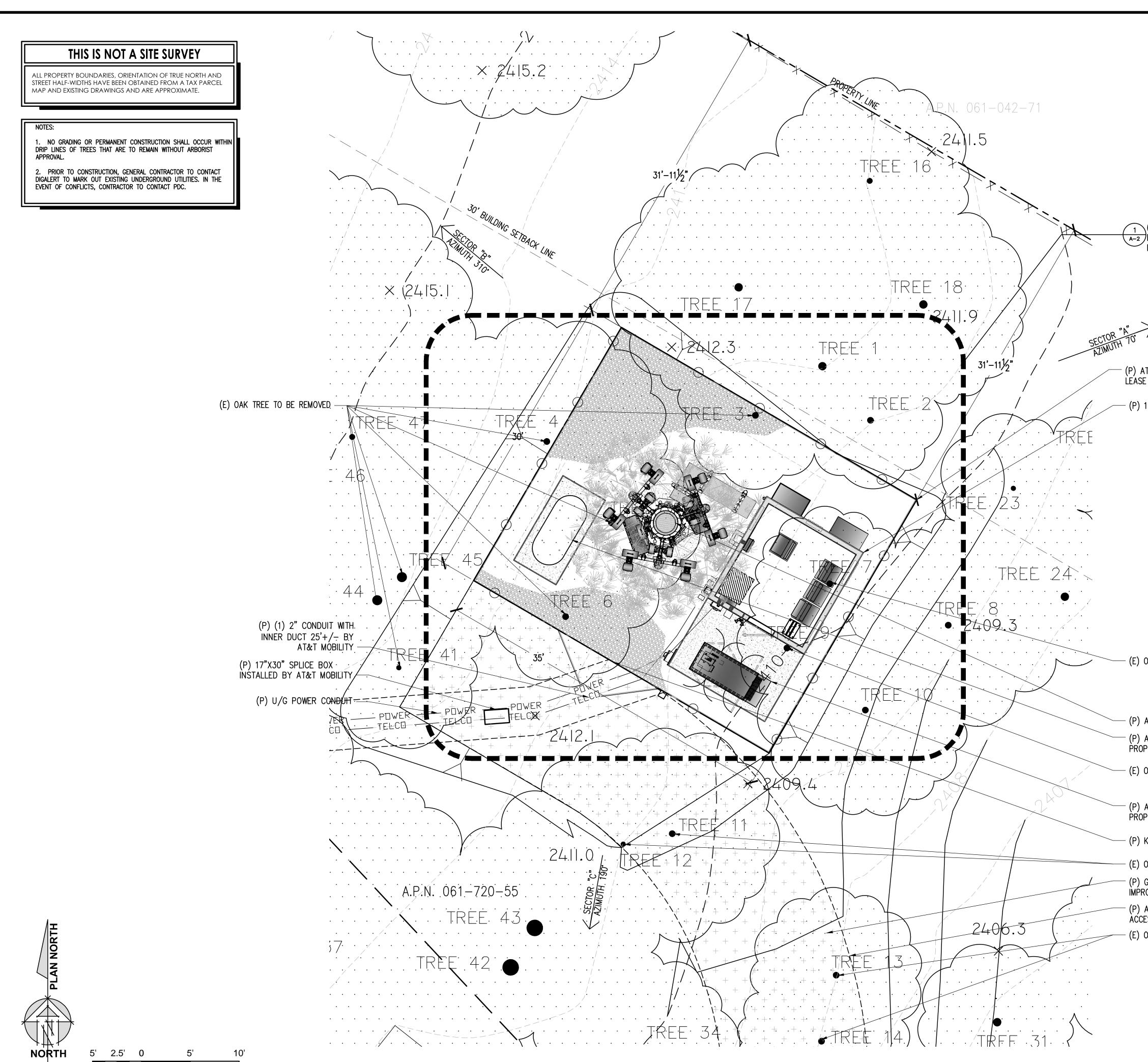
(E) 1000 GAL SEPTIC TANK, 500 GAL UMP TANK & GATE VALVE

- (E)  $\pm 65$ ' SELF SUPPORT TOWER WITH FIRE STATION EQUIPMENT TO BE REMOVED AND EQUIPMENT TO BE

— (E) UTILITY POLE W/ TRANSFORMER

SITE TYPE: MONOPINE/SHELTER

Issued For:				
BUFFALO HILL				
2065 SLIGER MINE RD.				
GREENWOOD, CA 95635				
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at&t				
2600 Camino Ramon, 4W850 N San Ramon, California 94583				
EPIC GROUP				
AT&T SITE NO: CVL02069				
AT&T SITE NO:         C V L02069           PROJECT NO:         13787697				
DRAWN BY: CES				
CHECKED BY: CES				
0         12/12/16         ZD 90%           0         02/08/17         ZD 90% CIVIL/RF REDLINES				
0         02/08/17         2D 90% CIVIL/RF REDLINES           0         02/21/17         ZD 100%				
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.				
Engineer: ADAPTIVE RE-USE ENGINEERING Craig Horner, PE 84674 214-407-3184 3112 LEATHA WAY SACRAMENTO, CA 95821 craigmhorner@yahoo.com				
SHEET TITLE: OVERALL SITE PLAN				
SHEET NUMBER:				
<b>A-1</b>				



1"=10'-0"

SITE PLAN

1"=5'-0"

AT&T 30'X35' E AREA 11'-5'X12' SHELTER AT&T PC DRA TAT 150' TALL MONOPINE AT&T 150' TALL MONOPINE AT&T 150' CALL P PANE TANK OAK TREE TO BE REMOVED AT&T 35KW LP PANE TANK OAK TREE TO BE REMOVED CE CE CE CE CE CE CE CE CE CE	boo Camino Ramon, 4W850 N an Ramon, California 94583
ZENCLOSURE PLAN LEASE AREA: 1050 S.F. AT&T 30'X35' SE AREA 11'-5'X12' SHELTER AT&T 150' TALL MONOPINE AT&T 150' TALL MONOPINE AT&T 550' GAL LP DPANE TANK OAK TREE TO BE REMOVED AT&T 35KW LP DPANE GENERATOR KNOX BOX AT GATE OAK TREE TO BE REMOVED CRAVELD ACCESS ROVEMENT TATE 15' MDE	
11'-5'X12' SHELTER	
OAK TREE TO BE REMOVED  AT&T 160' TALL MONOPINE  AT&T 160' TALL MONOPINE  AT&T 500 GAL LP  DPANE TANK  OAK TREE TO BE REMOVED  AT&T 35KW LP  DPANE GENERATOR  KNOX BOX AT GATE  OAK TREE TO BE REMOVED  GRAVELED ACCESS ROYAMIN AT&T 15' WIDE	••••
OAK TREE TO BE REMOVED  AT&T 160' TALL MONOPINE  AT&T 160' TALL MONOPINE  AT&T 500 GAL LP  DPANE TANK  OAK TREE TO BE REMOVED  AT&T 35KW LP  DPANE GENERATOR  KNOX BOX AT GATE  OAK TREE TO BE REMOVED  GRAVELED ACCESS ROYAMIN AT&T 15' WIDE	
OAK TREE TO BE REMOVED  AT&T 160' TALL MONOPINE  AT&T 160' TALL MONOPINE  AT&T 500 GAL LP  DPANE TANK  OAK TREE TO BE REMOVED  AT&T 35KW LP  DPANE GENERATOR  KNOX BOX AT GATE  OAK TREE TO BE REMOVED  GRAVELED ACCESS ROYAMIN AT&T 15' WIDE	
11'-5'X12' SHELTER	
OAK TREE TO BE REMOVED  AT&T 160' TALL MONOPINE  AT&T 150' GAL LP  PANE TANK  OAK TREE TO BE REMOVED  AT&T 35KW LP  OAK TREE TO BE REMOVED  GRAVELED ACCESS  ROVEMENT  AT&T 15' MIDE	ELESS GROUP
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Issued For:

BUFFALO HILL

2065 SLIGER MINE RD

GREENWOOD, CA 95635

# **KEYNOTES**

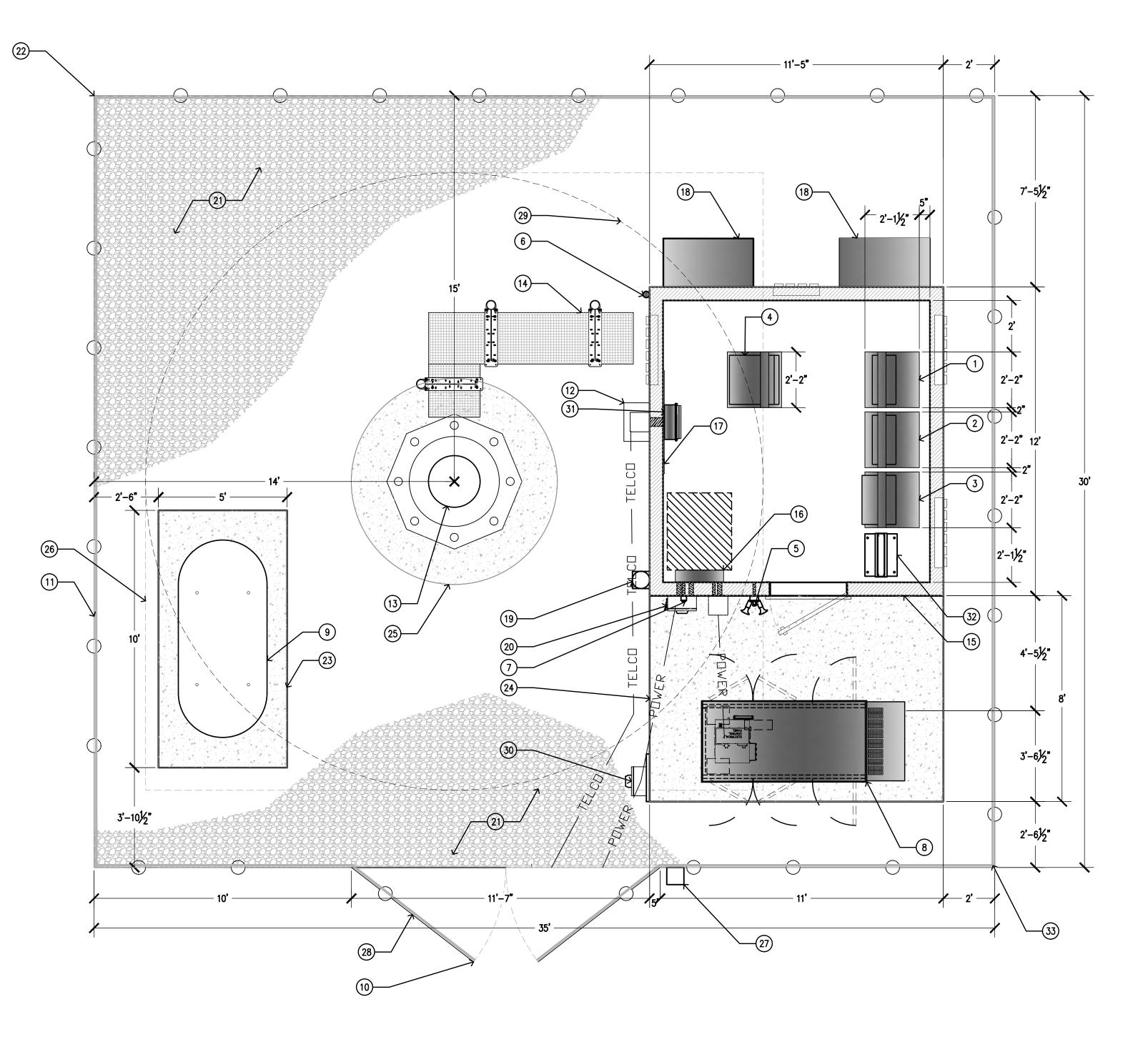
- (P) RF RACK #1
- (P) RF RACK #2
- 3
   (P) POWER PLANT RACK W/ (2) STRING OF BATTERIES
   18
   (P) 4 TON HVAC UNIT

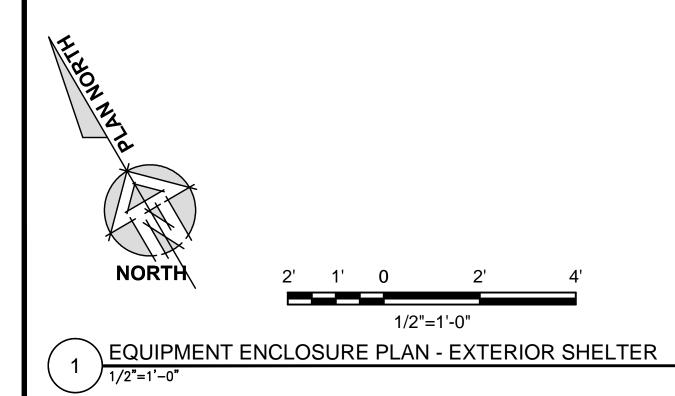
   4
   (P) TELCO RACK
   19
   20A-20BC FIRE EXTINGUISHER IN WEATHER RESISTANT CABINET
- 5 (P) shielded down tilt light with motion sensor and automatic shutoff timer
- (6) (P) GPS UNIT
- $\overline{(7)}$  (p) camlock generator interface
- (8) (P) 35kw LP PROPANE STANDBY GENERATOR
- (9) (p) 500 gal lp propane storage tank
- (10) (P) 12'-0" wide access gate
- (P) 6'-0" CHAIN LINK FENCE w/ 3 STRAND ANTI CLIMB BARRIER AND GREEN VINYL SLATS
- (P) 18"X18" TELCO PULL CAN BY AT&T MOBILITY
  (13) (P) 153'-00" MONOPOLE W/ 7' BRANCH CROWN TO 160' OVER ALL HEIGHT
  (14) (P) ICE BRIDGE

- (P) AT&T 11'-5" x 12'-0" (P) AT&T 11'-5" x 12'-0" PRE-MANUFACTURED EQUIPMENT SHELTER MDL#SATN12/DATN12

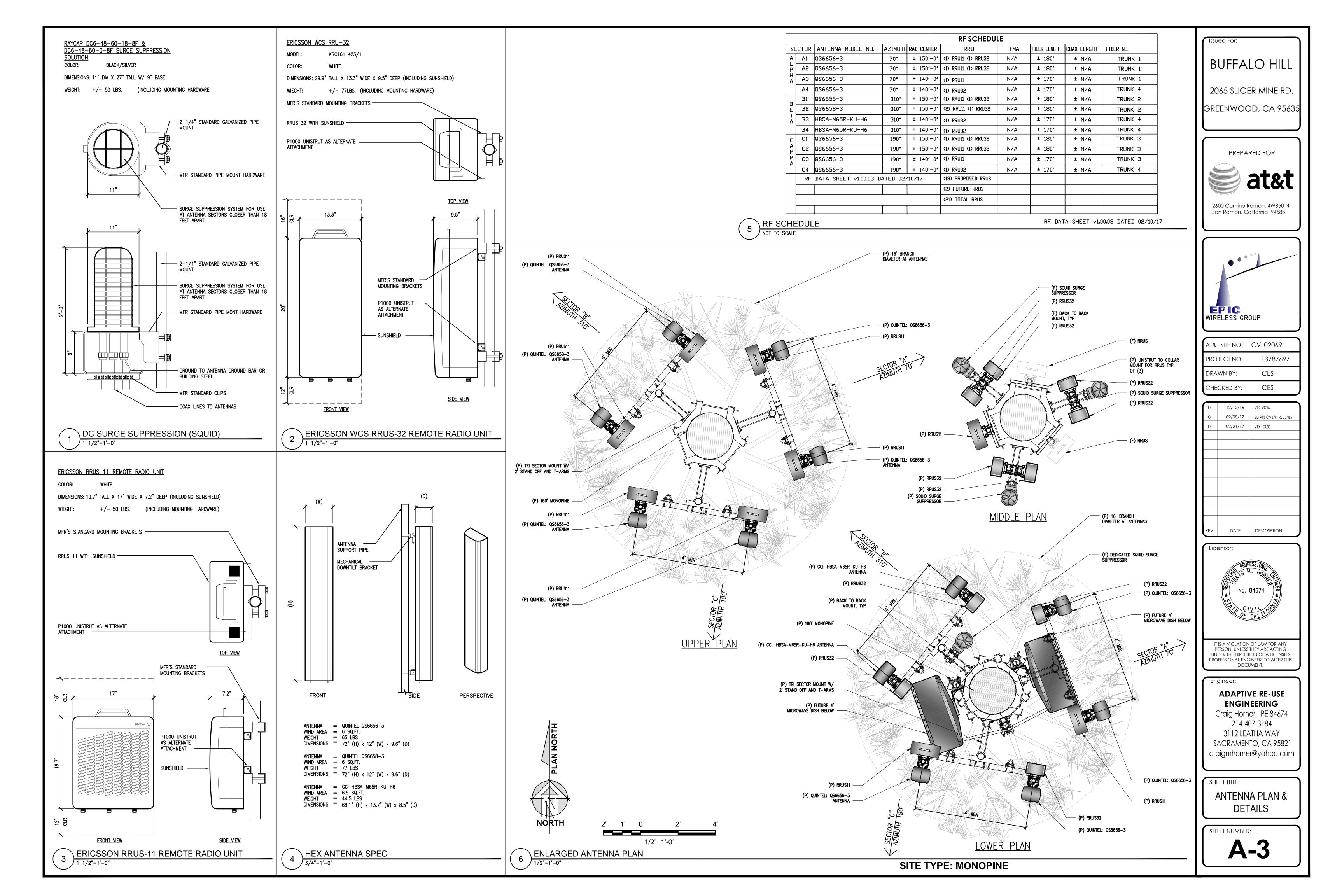
- (P) 200A 42 CIRCUIT LOAD CENTER / AUTOMATIC & MANUAL TRANSFER SWITCH
- (17) (p) telco board by at&t mobility

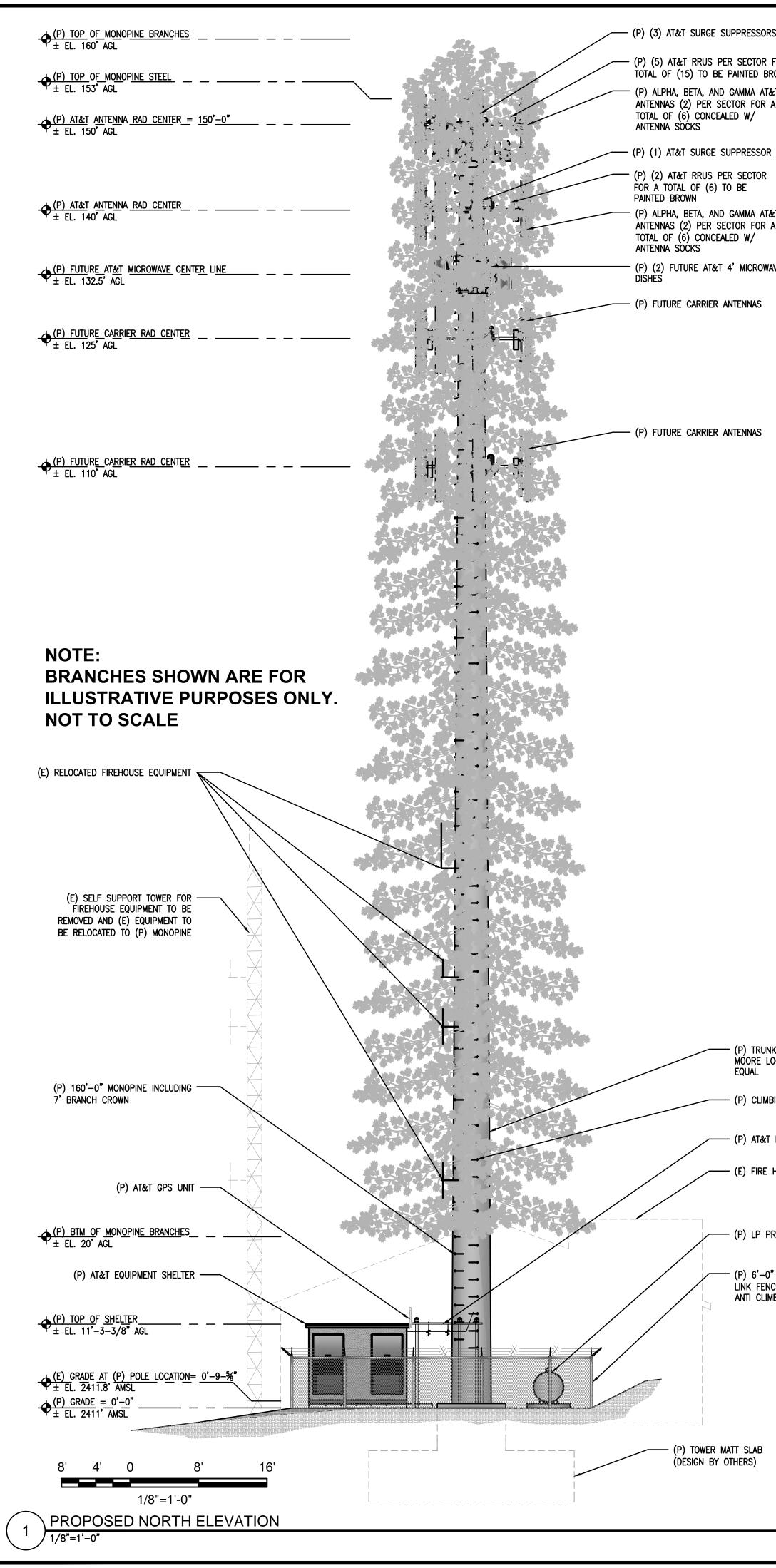
- (P) 200A MAIN DISCONNECT
- (P) GRAVEL BED
- (22) (P) AT&T 30'X35' LEASE AREA
- 23 (P) 5'X10 SLAB 24 (P) gen patio
- (25) (p) tower caisson (design by others)
- (26) (p) U/g tower matt slab (design by others)
- (27) (p) fire department knox box
- (28) (P) CARRIER CONTACT SIGNAGE AT GATE
- (P) 24' MAX BRANCH DIAMETER AT BASE OF (P) MONOPINE
- (P) 200A ELECTRICAL METER/WITH MAIN DISCONNECT ON (P) H-FRAME
- (P) CIENNA CABINET BY AT&T LANDLINE
- (P) radio rack for county's Equipment
- (P) BBC-13X 1.2LB PSF MIN. OR EQUIV., SOUND BLANKET AT INTERIOR SIDE OF FENCE



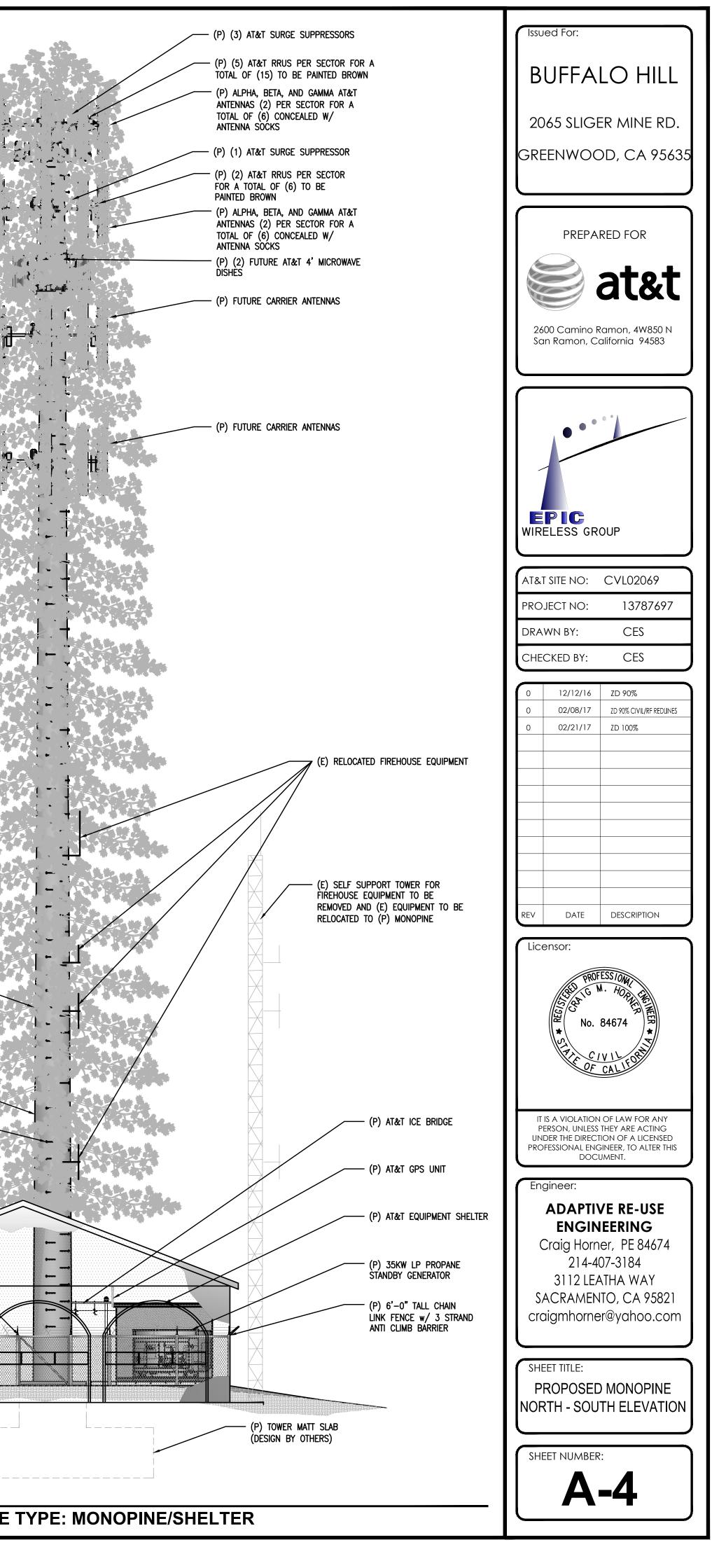


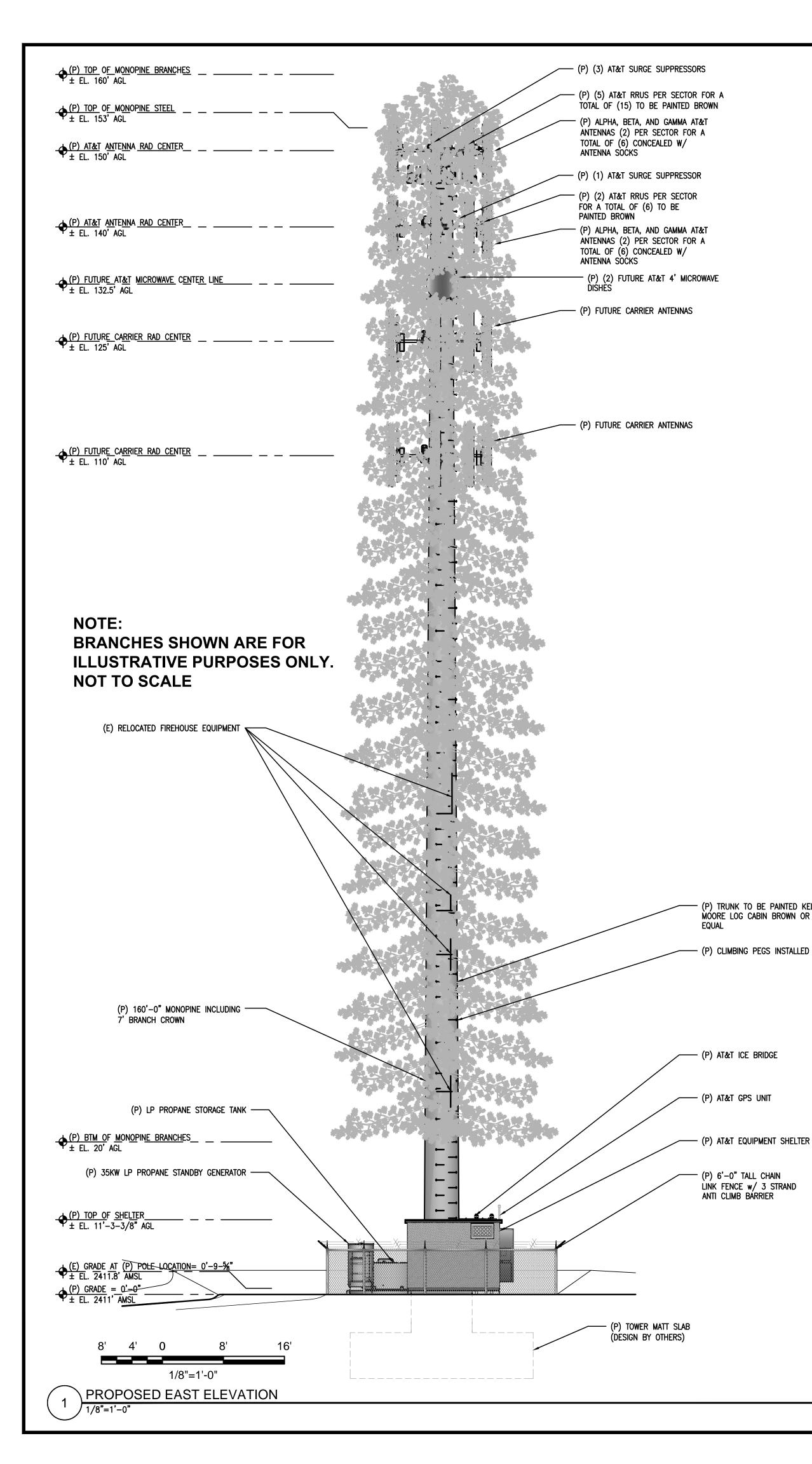
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SACRAMENTO, CA 95821				
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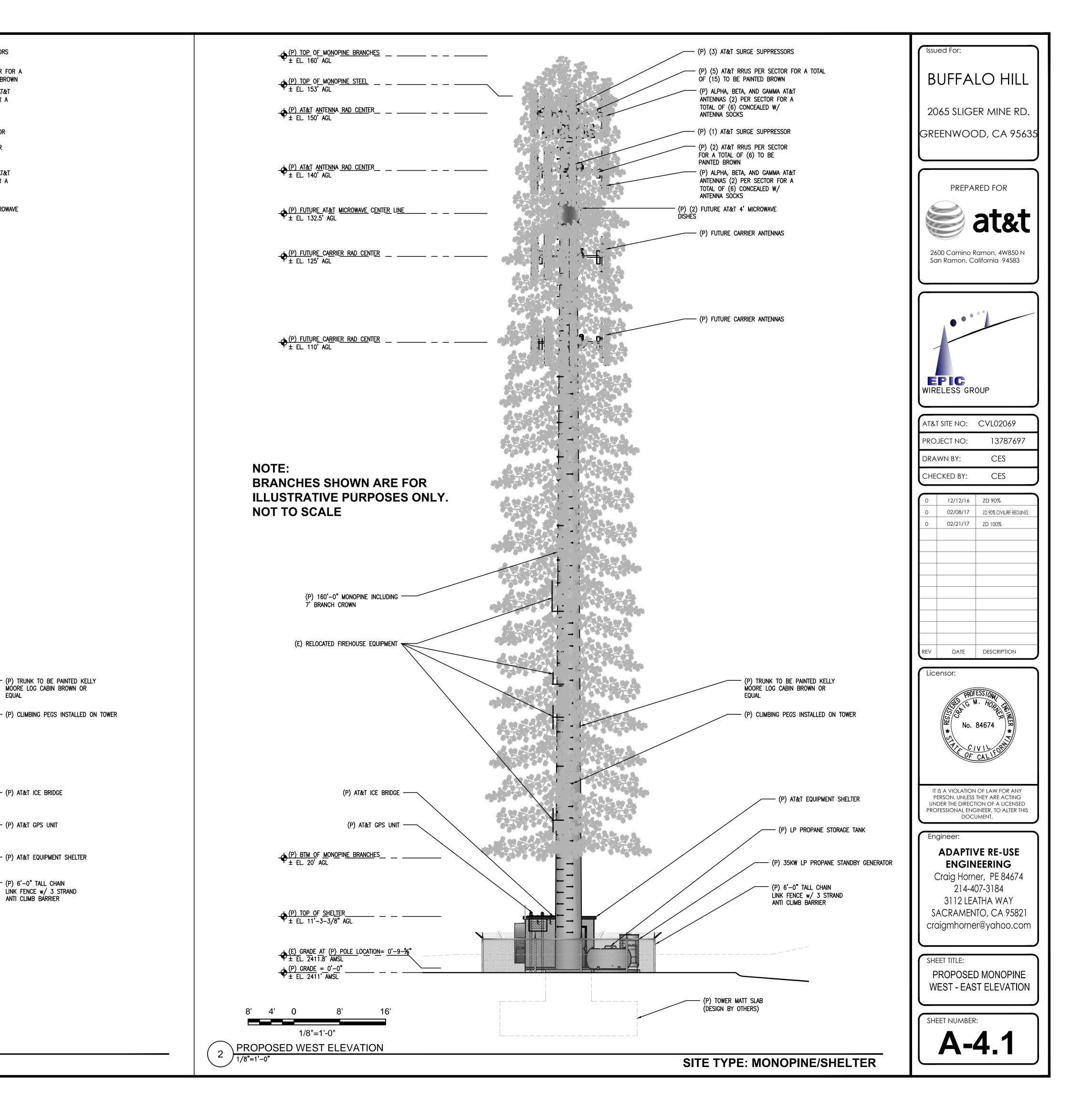




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8	$\Phi (P) \text{ AT&T ANTENNA RAD CENTER} = 150'-0" \qquad$	
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AVE	→ (P) FUTURE AT&T MICROWAVE CENTER LINE	
	<u>(P) FUTURE_CARRIER_RAD_CENTER</u>	
	NOTE: BRANCHES SHOWN ARE FOR	
	ILLUSTRATIVE PURPOSES ONLY. NOT TO SCALE	
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		1. 10 A
	(P) 160'-0" MONOPINE INCLUDING 7' BRANCH CROWN	
	7' BRANCH CROWN	
IK TO BE PAINTED KELLY OG CABIN BROWN OR	(P) TRUNK TO BE PAINTED KELLY MOORE LOG CABIN BROWN OR	
BING PEGS INSTALLED ON TOWER	EQUAL (P) CLIMBING PEGS INSTALLED ON TOWER	
ICE BRIDGE	(E) FIRE HOUSE IN FOREGROUND	
HOUSE BEYOND	(P) 12'-0" WIDE	
	(P) LP PROPANE STORAGE TANK	
ROPANE STORAGE TANK	⊕ (P) BTM OF MONOPINE BRANCHES     ± EL. 20' AGL	
" TALL CHAIN ICE w/ 3 STRAND IB BARRIER		
NB BARRIER	$- \Phi \stackrel{(P)}{=} \stackrel{\text{OP OF SHELTER}}{=}$	
	(E) GRADE AT (P) POLE LOCATION = 0'-9-5''  + EL. 2411.8' AMSL (P) GRADE = 0'-0''	
	T ± EL. 2411' AMSL	
	8' 4' 0 8' 16'	
	1/8"=1'-0"	
	2 PROPOSED SOOTT ELEVATION 1/8"=1'-0"	SITE









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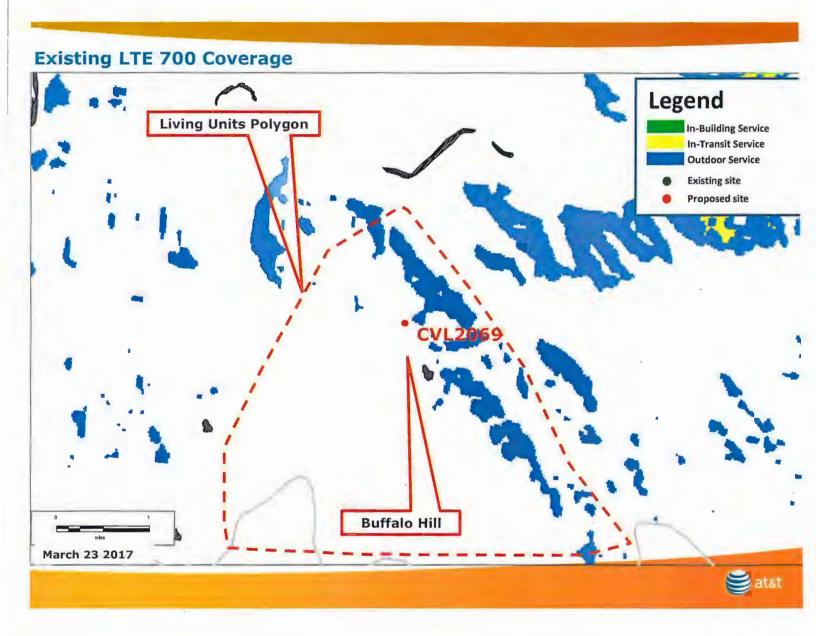


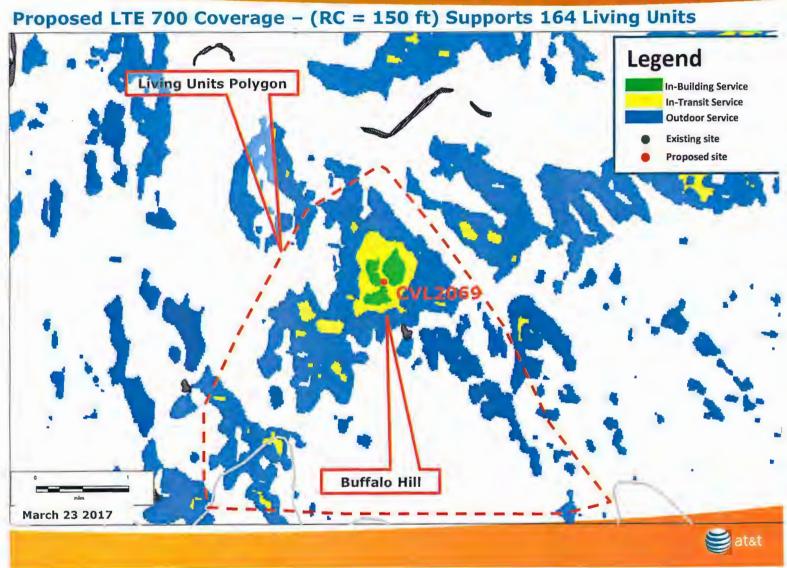
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Exhibit H







Radio	<b>Frequency Emissions</b>	<b>Compliance Report</b>	For AT&T Mobility
Site Name:	Buffalo Hill	Site Structure Type:	Monopine
Address:	2065 Sliger Mine Road	Latitude:	38.934911
	Greenwood, California	Longitude:	-120.901613
Report Date:	March 6, 2017	Project:	New Build

### General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed Buffalo Hill site located at 2065 Sliger Mine Road, Greenwood, California. This report contains information about the radio telecommunications equipment to be installed at this site and the surrounding environment with regard to RF Hazard compliance. This assessment is based on installation designs and operational parameters provided by AT&T Mobility.

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is 5 times more restrictive than the Occupational limits.

	Limits for General Populat	ion/ Uncontrolled Exposure	Limits for Occupational/ Controlled Exposu		
Frequency (MHz)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)	
30-300	0.2	30	1	6	
300-1500	f/1500	30	f/300	6	
1500-100,000	1.0	30	5.0	6	

f=Frequency (MHz)

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

## Exhibit I

### Buffalo Hill-New Build 030617

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

### Analysis

AT&T Mobility proposes the following installation at this location:

- Add twelve (12) new antennas
- Add nineteen (19) proposed RRUs

The antennas will be mounted on a new 160-foot monopine erected for this purpose with centerlines at 150 and 140 feet above ground level. The antennas will be oriented toward 70, 310 and 190 degrees. The Effective Radiated Power (ERP) in any direction from all AT&T Mobility operations will not exceed 24,809 Watts. Other appurtenances such as GPS antennas, RRUs and hybrid cable are not sources of RF emissions. From this site, AT&T Mobility will enhance voice and data services to surrounding areas in licensed 700, 850, 1900, 2100 and 2300 MHz bands. No other antennas are known to be operating in the vicinity of this site.

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serve to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.2485% of the FCC General Population limits (0.0497% of the FCC Occupational limits). Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.2435% of the FCC General Population limits (0.0487% of the FCC Occupational limits). The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or at adjacent buildings by 5% of the General Population limits.

Within the proposed compound surrounding the monopine, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.0185% of the FCC General Population limits (0.0037% of the FCC Occupational limits). Waterford Consultants, LLC recommends posting contact information signage at the compound gate that informs personnel entering the site of basic precautions to be followed when working around antennas. RF alerting signage (Caution) should be posted at the base of the proposed monopine to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.

### Buffalo Hill-New Build 030617



Figure 1: Antenna Locations

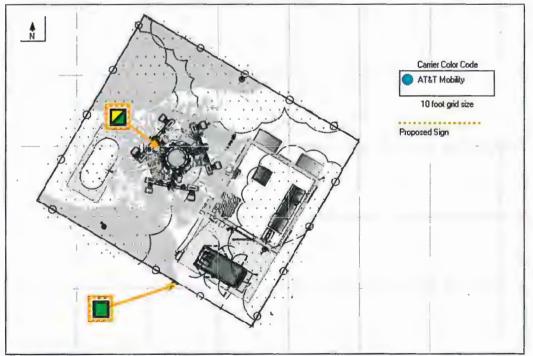


Figure 2: Mitigation Recommendations

### **Compliance Statement**

Based on information provided by AT&T Mobility, predictive modeling and the mitigation action to be implemented by AT&T Mobility, the installation proposed by AT&T Mobility at 2065 Sliger Mine Road, Greenwood, California will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. § 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to the tower to authorized climbers that have completed RF safety training is required for Occupational environment compliance.

### Certification

I, Steven N. Baier-Anderson, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

