

ENGINEERING

2010 CALIFORNIA BUILDING CODE
2010 CALIFORNIA ELECTRIC CODE
TIA-222-G OR LATEST EDITION

CALIFORNIA BUILDING CODE, TITLE 24, 2010 EDITION
CALIFORNIA ELECTRICAL CODE, 2010 EDITION BASED ON 2008 N.E.C.
CALIFORNIA PLUMBING CODE, 2010 EDITION BASED ON 2009 U.P.C.
CALIFORNIA MECHANICAL CODE, 2010 EDITION BASED ON 2009 U.M.C.
CALIFORNIA FIRE CODE, 2010 EDITION BASED ON 2009 I.F.C.
CALIFORNIA ENERGY CODE, 2010 EDITION
CALIFORNIA GREEN BLDG CODE, 2010 EDITION BASED ON 2008 I.F.C.
CALIFORNIA RESIDENTIAL CODE, 2010 EDITION BASED ON 2008 I.R.C.
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

PROJECT DESCRIPTION

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

• PROPOSED OUTDOOR CABINETS - TOTAL OF 2
• REPLACE EXISTING 4'-0" ANTENNAS WITH PROPOSED 6'-0" ANTENNAS - TOTAL OF 4
• PROPOSED RADIO REMOTE UNITS (RRU'S) - TOTAL OF 8
• PROPOSED GPS ANTENNA - TOTAL OF 1
• REMOVE AND REPLACE 12 EXISTING TMA'S WITH 6 PROPOSED DOUBLE TMAS
• ADDITIONAL BRANCHES TO BE INCORPORATED ONTO (E) MONGRINE

SITE INFORMATION

PROPERTY OWNER:
ADDRESS:

SITE NAME:
SITE ADDRESS:

COUNTY:
LATITUDE (NAD 83):
LONGITUDE (NAD 83):

TOTAL LEASE AREA:

GROUND ELEVATION:
ANTENNA TIP HEIGHT:
ZONING JURISDICTION:
ZONING DISTRICT:
EXISTING PERMITS:
PARCEL #:
OCCUPANCY GROUP:
CONSTRUCTION TYPE:
OTHER WIRELESS FACILITIES:

POWER COMPANY:
TELEPHONE COMPANY:

RF ENGINEER:
LEASING AGENT:
ZONING AGENT:
CONSTRUCTION MANAGER:

BILL AND MARINA BUSH
P.O. BOX 1144
ALPINE, CA 91901

SD0649 VIEJAS
4737-B CALLE NADA
ALPINE, CA 91901

COUNTY OF SAN DIEGO
32° 50' 11.60"N
116° 42' 38.90" W

225 SQ. FT.

2,411 AMSL
32'-2" AGL
COUNTY OF SAN DIEGO
A70
ZAP03-042
406-052-12
B
TYPE V-A
VERIZON, SPRINT, CRICKET

SOG&E
AT&T

VIJAY KUMAR KOLLI
LYNN SILVERSTEIN (858) 663-3593
DANIELLE GOLDMAN (619) 972-4944
CRAIG McNULTY 619-200-9664

LEGAL DESCRIPTION

THAT PART OF THOSE PORTIONS OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 30, TOWNSHIP 15 SOUTH, RANGE 3 EAST, S.B.M., ACCORDING TO THE OFFICIAL PLAT THEREOF, AS SAID PORTIONS WERE CONVEYED TO THE STATE OF CALIFORNIA BY DEEDS RECORDED MAY 9, 1949, IN BOOK 3198, PAGE 408, MAY 2, 1949, IN BOOK 3198, PAGE 491, AND JUNE 14, 1949, IN BOOK 3226, PAGE 113, ALL OF OFFICIAL RECORDS OF SAN DIEGO COUNTY, SAID PART HEREBY CONVEYED DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE NORTH-SOUTH QUARTER SECTION LINE OF SAID SECTION 30 AND THE SOUTHERLY LINE OF PARCEL 1 OF RELINQUISHMENT TO THE COUNTY OF SAN DIEGO, NO. 19003, RECORDED JULY 2, 1966, FILE NO 119902, OFFICIAL RECORDS OF SAN DIEGO COUNTY; THENCE ALONG THE FOLLOWING NUMBERED COURSES: (1) ALONG SAID NORTH-SOUTH QUARTER SECTION LINE S.87°35'55"E, 108.32 FEET; (2) LEAVING SAID NORTH-SOUTH QUARTER SECTION LINE S.87°35'55"W, 440.00 FEET TO THE EASTERLY LINE OF THAT PARCEL OF LAND DESCRIBED AS PARCEL 1 INDEED TO RICHARD NICHOLSEN, ET UX, RECORDED JANUARY 17, 1962, FILE NO. 9370, OF SAID OFFICIAL RECORDS; (3) ALONG THE NORTHERLY PROLONGATION OF SAID EASTERLY LINE N.74°40'0"W, 33.53 FEET TO SAID SOUTHERLY LINE OF SAID COUNTY RELINQUISHMENT; (4) ALONG SAID SOUTHERLY LINE N.77°56'35"E, 445.88 FEET TO THE POINT OF BEGINNING.

CONTACT INFORMATION

ENGINEER:
CONTACT:

BLACK & VEATCH CORPORATION
10089 WILLOW CREEK RD, SUITE 350
SAN DIEGO, CA 92131

JOSEPH PALMA 619-341-9479



SD0649
VIEJAS
4737-B CALLE NADA
ALPINE, CA 91901

LOCATION MAPS

VICINITY MAP

LOCAL MAP

NO SCALE

DRIVING DIRECTIONS

1. START HEADING EAST ON PACIFIC CENTER BLVD. TOWARD PACIFIC HEIGHTS BLVD.
2. TURN RIGHT ONTO PACIFIC HEIGHTS BLVD.
3. TURN RIGHT ONTO MIRA MESA BLVD.
4. MERGE ONTO I-805 SOUTH.
5. MERGE ONTO I-8 EAST TOWARD EL CENTRO

6. TAKE THE WILLOWS ROAD EXIT, EXIT 33 TOWARD ALPINE BLVD.
7. TURN LEFT ONTO ALPINE BLVD.
8. TURN RIGHT ONTO CALLE NADA

ARRIVE AT 4737 CALLE NADA ALPINE CA. 91901

FA NUMBER: 10099917CASPR NUMBER: 3601309199

APPROVALS

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

AT&T RF: _____ DATE: _____
SITE ACQUISITION: _____ DATE: _____
PROPERTY OWNER: _____ DATE: _____
CM: _____ DATE: _____
AT&T PM: _____ DATE: _____

RF INFORMATION

	LTE	GSM	UMTS
Tx	704.0 - 716.0 MHz	869 - 874.6 MHz 890 - 891.4 MHz 1950 - 1952.8 MHz 1970 - 1980 MHz	874.6 - 879.6 MHz 1945 - 1950 MHz
Rx	734.0 - 746.0 MHz	824 - 829.4 MHz 845 - 846.4 MHz 1870 - 1872.8 MHz 1890 - 1900 MHz	829.6 - 834.4 MHz 1865 - 1869.8 MHz

MAX EIRP: 500.0 WATTSMAX ERP: 850 MHz: 54 WATTS
1900 MHz: 54.5 WATTS

SHEET INDEX

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LS-1	TOPOGRAPHIC SURVEY	3

11"x17" DRAWINGS WILL BE HALF SCALE

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



UNDERGROUND
SERVICE ALERT
UTILITIES PROTECTION CENTER, INC.
811
48 HOURS BEFORE YOU DIG



5736 PACIFIC
CENTER BLVD.
SAN DIEGO, CA
92121
(858) 232-3996



BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000



MITCHELL J. ARCHITECTURE, INC.
4883 RONSON COURT, SUITE N
SAN DIEGO, CA 92111
858.650.3130 (PH) / 858.650.3140 (FAX)

REV	DATE	DESCRIPTION
0	05-19-12	80% 2D ISSUED FOR REVIEW
1	10-03-12	100% 2D ISSUE
2	11-20-12	CLIENT COMMENTS
3	02-04-13	ZONING COMMENTS

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.

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VIEJAS
4737-B CALLE NADA
ALPINE, CA 91901
LTE OPTIMAL

SHEET TITLE
TITLE SHEET

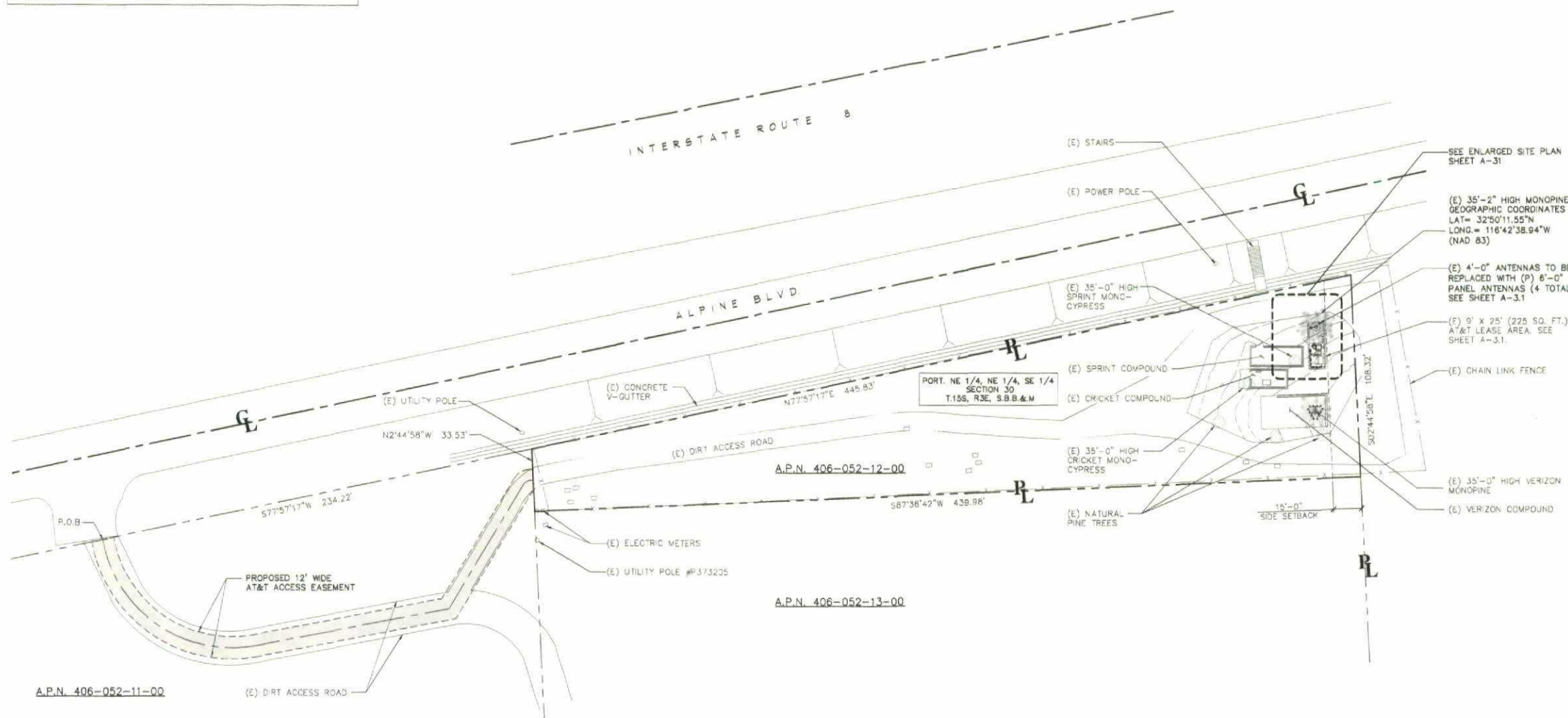
SHEET NUMBER
T-1

SDC PDS RCVD 04-22-13

ZAP03-042W1

Access Easement

BEING A STRIP OF LAND 12.00 FEET WIDE LYING WITHIN A PORTION OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 3 EAST, S.B.B.M., LYING 6 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED CENTERLINE COMMENCING AT THE INTERSECTION OF THE SOUTHERLY LINE OF ALPINE BOULEVARD AND THE WESTERLY LINE OF THE EASTERLY 440 FEET OF THE SOUTHWEST QUARTER OF SECTION 30 AS SHOWN ON R.G.S. 131721 THENCE ALONG SAID SOUTHERLY LINE OF ALPINE BOULEVARD S77°57'17"W 234.22 FEET, TO THE POINT OF BEGINNING, THENCE S12°02'43"E 2.87 FEET TO THE BEGINNING OF A TANGENT CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 70.00 FEET, THENCE SOUTHEASTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 88°50'24" AND A HAVING AN ARC DISTANCE OF 108.84 FEET, THENCE N75°06'53"E 104.72 FEET, THENCE N30°41'38"E 77.46 FEET TO THE BEGINNING OF A TANGENT CURVE CONCAVE SOUTHEASTERLY HAVING A RADIUS OF 5.00 FEET, THENCE NORTHEASTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 96°33'25" HAVING AN ARC DISTANCE OF 4.94 FEET, THENCE N87°15'02"E 1.21 FEET TO A POINT ON THE WESTERLY LINE OF THE EASTERLY 440 FEET OF THE SOUTHWEST 1/4 OF SAID SECTION AND TO THE END OF SAID STRIP.



5738 PACIFIC
CENTER BLVD.
SAN DIEGO, CA
92121
(858) 232-3998



BLACK & VEATCH

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(913) 458-2000



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ALPINE, CA 91901
LTE OPTIMAL

SHEET TITLE
SITE PLAN (PROPOSED)

SHEET NUMBER
A-1

SITE PLAN (PROPOSED)

SCALE: 1"=30'-0"

ANTICIPATED POLLUTANTS:
TRASH AND DEBRIS
OIL AND GREASE

BMP LEGEND

MATERIALS & WASTE MANAGEMENT CONTROL BMPs

- WM-1 MATERIAL DELIVERY & STORAGE
- WM-4 SPILL PREVENTION AND CONTROL
- WM-8 CONCRETE WASTE MANAGEMENT
- WM-5 SOLID WASTE MANAGEMENT
- WM-9 SANITARY WASTE MANAGEMENT
- WM-6 HAZARDOUS WASTE MANAGEMENT

TEMPORARY RUNOFF CONTROL BMPs

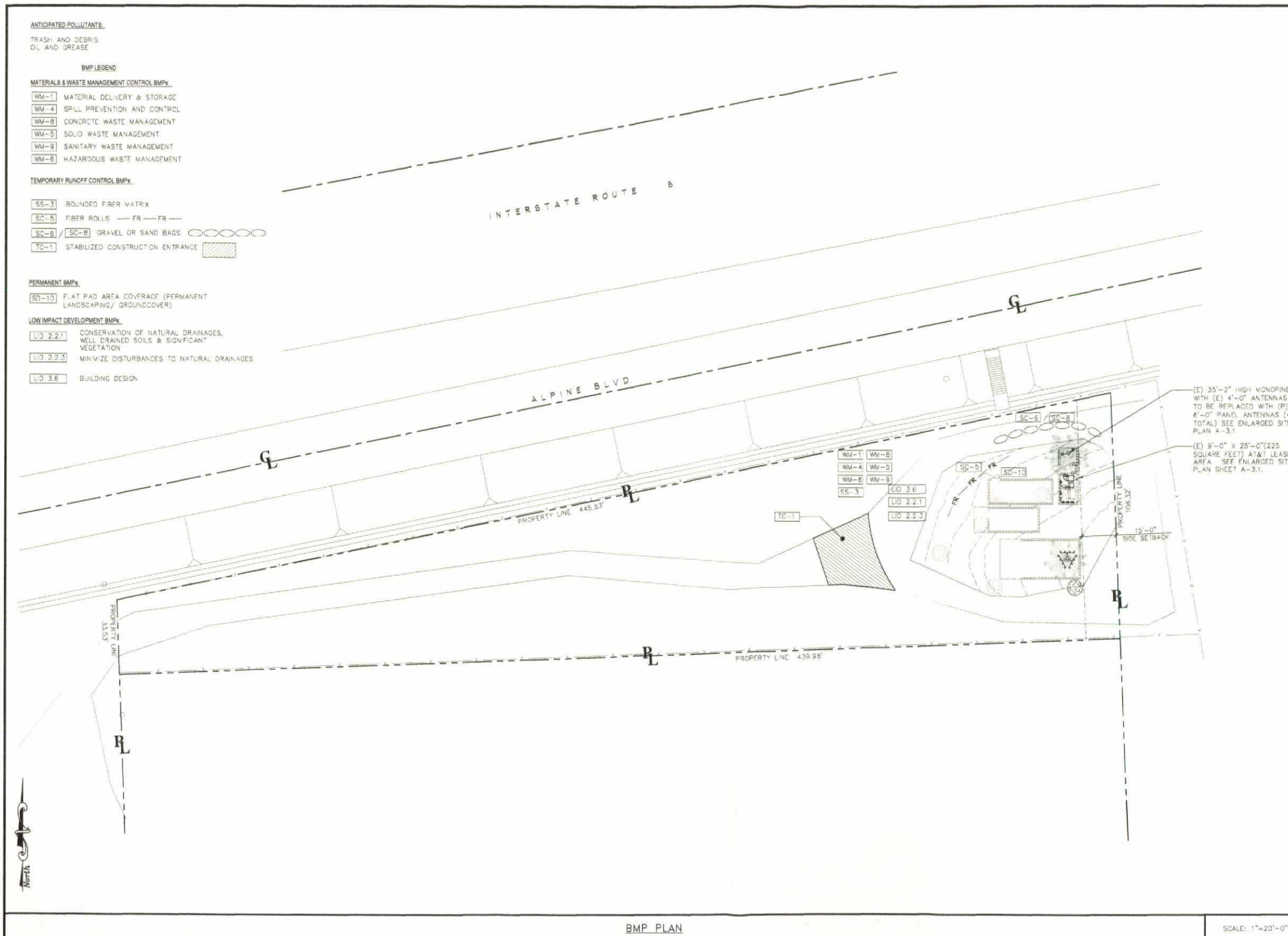
- SS-3 BOUNDED FIBER MATRIX
- SC-5 FIBER ROLLS — FR — FR —
- SC-6 / SC-8 GRAVEL OR SAND BAGS
- TC-1 STABILIZED CONSTRUCTION ENTRANCE

PERMANENT BMPs

- SD-10 FLAT PAD AREA COVERAGE (PERMANENT LANDSCAPING/ GROUND COVER)

LOW IMPACT DEVELOPMENT BMPs

- LID 2.2.1 CONSERVATION OF NATURAL DRAINAGES, WELL DRAINED SOILS & SIGNIFICANT VEGETATION
- LID 2.2.3 MINIMIZE DISTURBANCES TO NATURAL DRAINAGES
- LID 3.6 BUILDING DESIGN



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SHEET TITLE

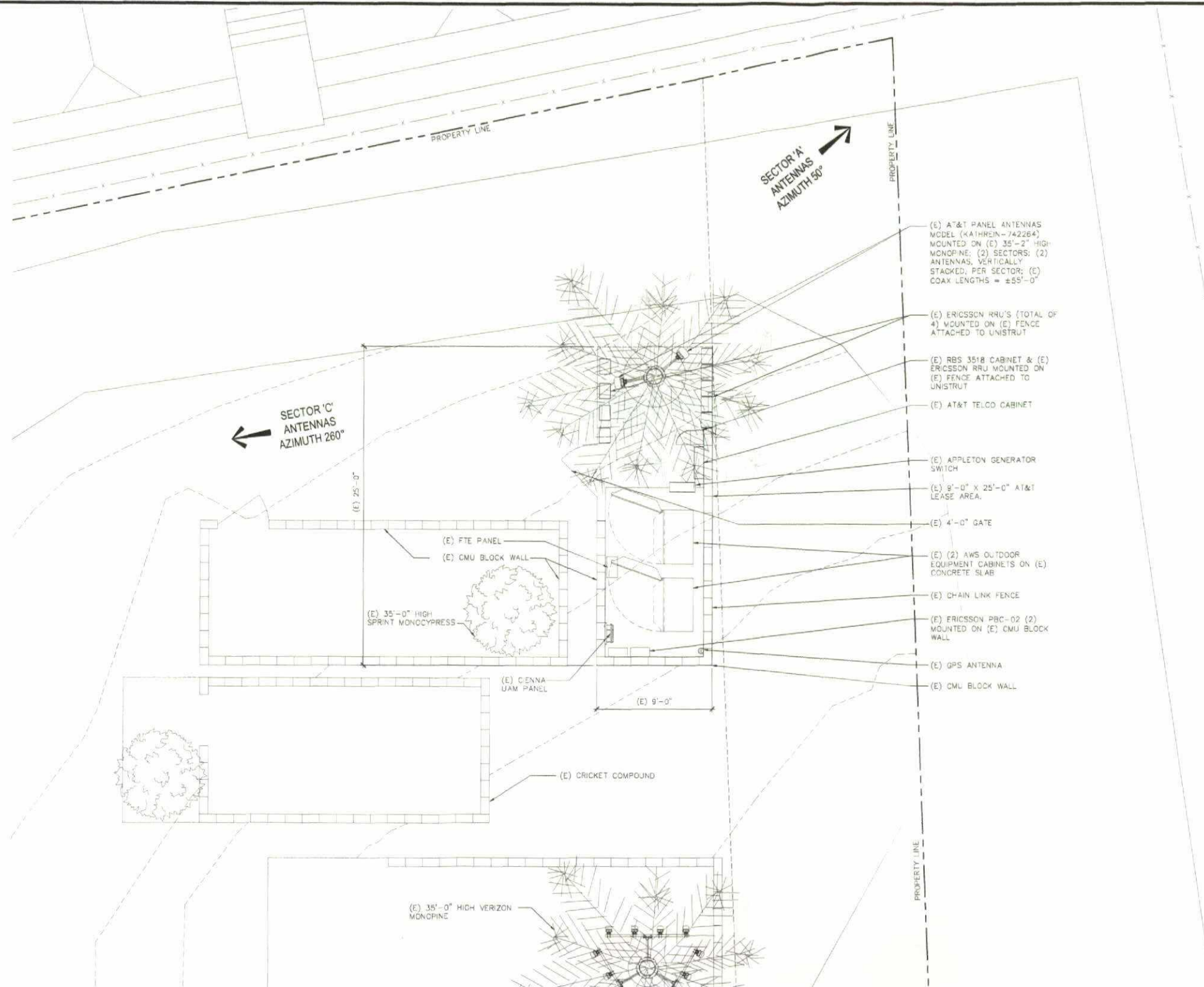
BMP PLAN

SHEET NUMBER

A-2

BMP PLAN

SCALE: 1"=20'-0"



ENLARGED SITE PLAN (EXISTING)

SCALE: 1/4"=1'-0"



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SHEET TITLE
ENLARGED SITE PLAN
(EXISTING)

SHEET NUMBER
A-3

EXISTING ANTENNA AND COAXIAL CABLE SCHEDULE							
SECTOR	ANTENNA #	DIRECTION	AZIMUTH	ANTENNA MODEL	COAX CABLE LENGTH (+/- 5')	COAX SIZE	RAD CENTER
SECTOR A	1	NORTHEAST	50°	KATHREIN 742264	58'-0"	7/8"	28'-10"
	2	NORTHEAST	50°	KATHREIN 742264	58'-0"	7/8"	24'-0"
SECTOR C	1	WEST	260°	KATHREIN 742264	58'-0"	7/8"	28'-10"
	2	WEST	260°	KATHREIN 742264	58'-0"	7/8"	24'-0"

PROPOSED ANTENNA AND COAXIAL CABLE SCHEDULE							
SECTOR	ANTENNA #	DIRECTION	AZIMUTH	ANTENNA MODEL	COAX CABLE LENGTH (+/- 5')	COAX SIZE	RAD CENTER
SECTOR A	1	NORTHEAST	50°	QUINTEL QS6658-2	58'-0"	7/8"	29'-2"
	2	NORTHEAST	50°	QUINTEL QS6658-2	58'-0"	7/8"	25'-8"
SECTOR C	1	WEST	260°	QUINTEL QS6658-2	58'-0"	7/8"	29'-2"
	2	WEST	260°	QUINTEL QS6658-2	58'-0"	7/8"	25'-8"



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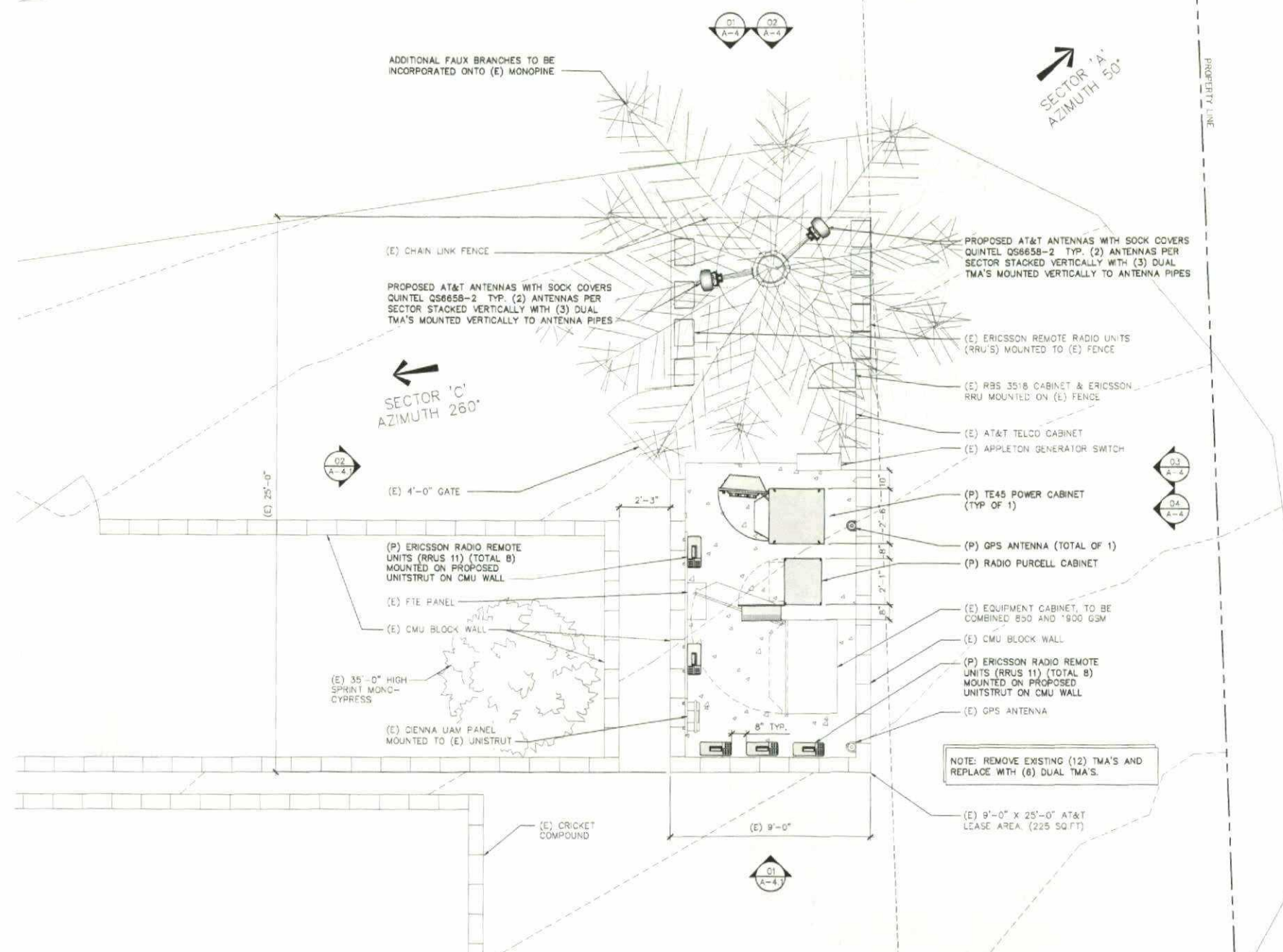
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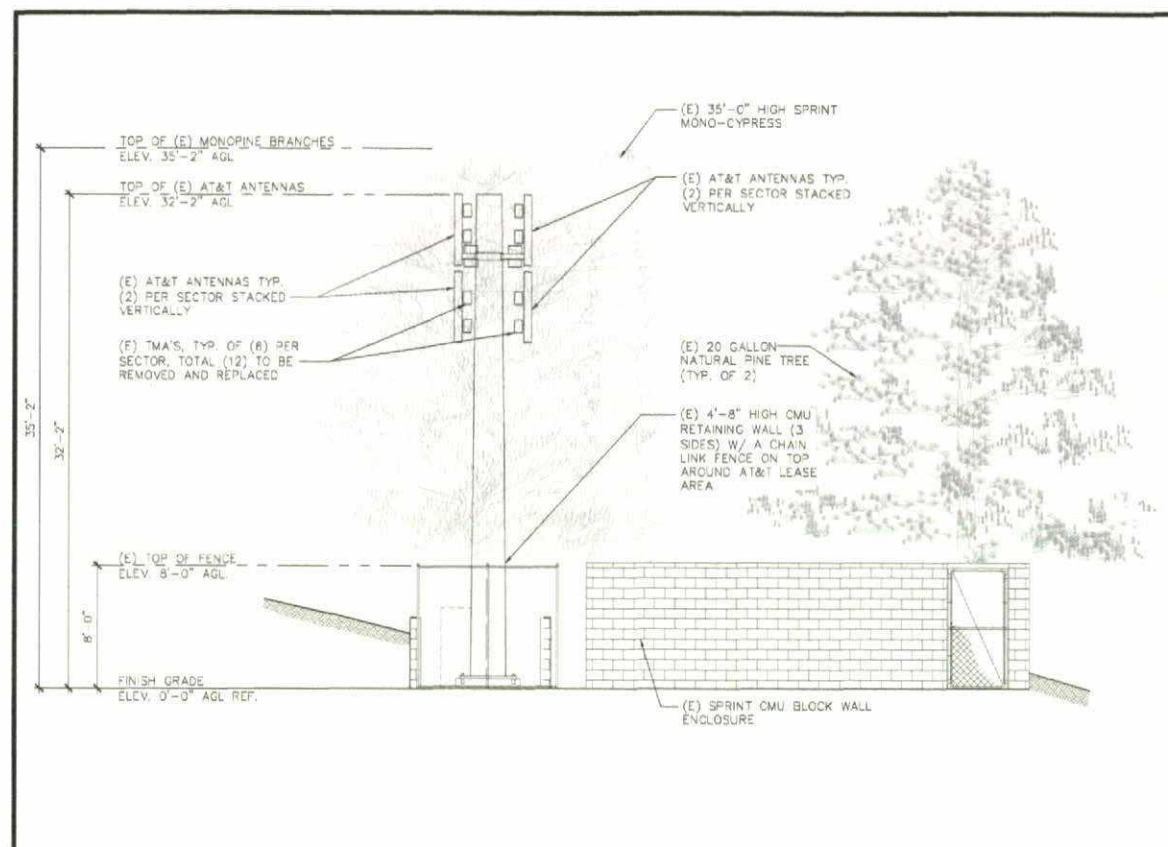
SHEET TITLE
ENLARGED SITE PLAN
(PROPOSED)

SHEET NUMBER
A-3.1



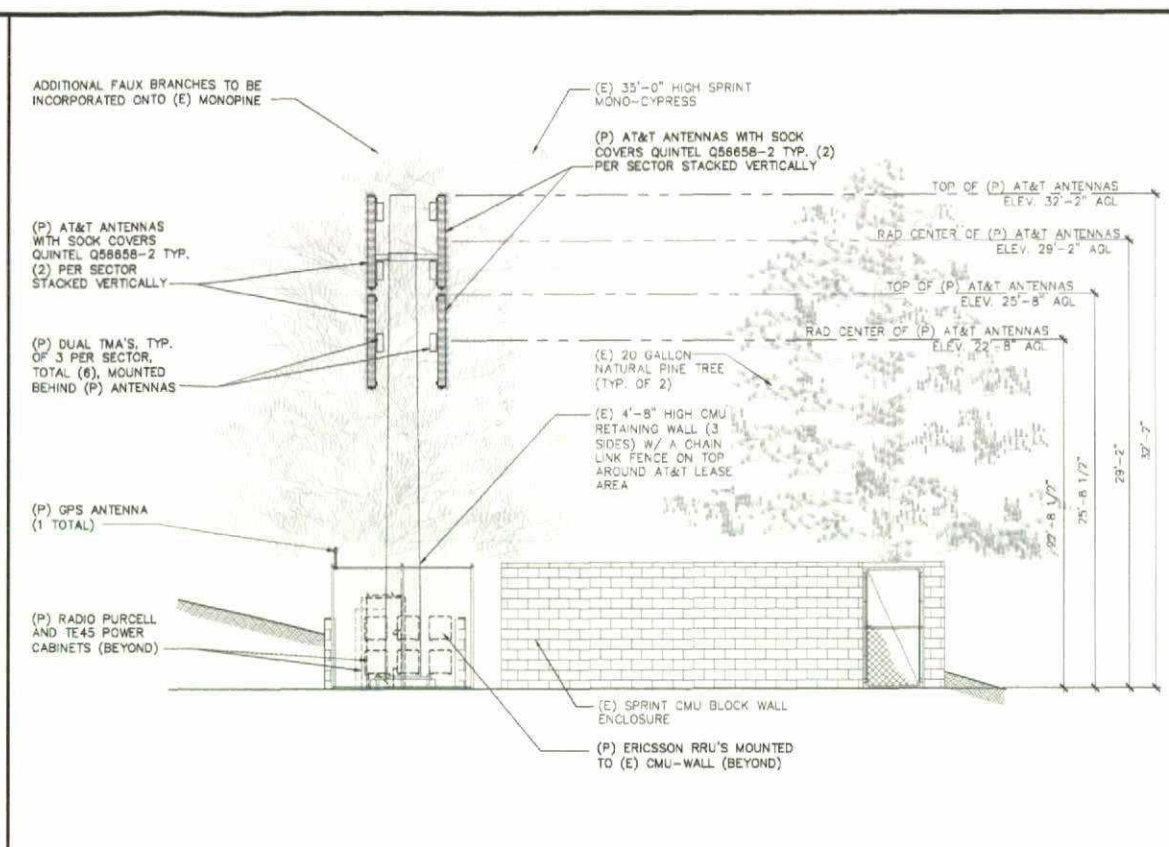
ENLARGED SITE PLAN (PROPOSED)

SCALE: 3/8"=1'-0"



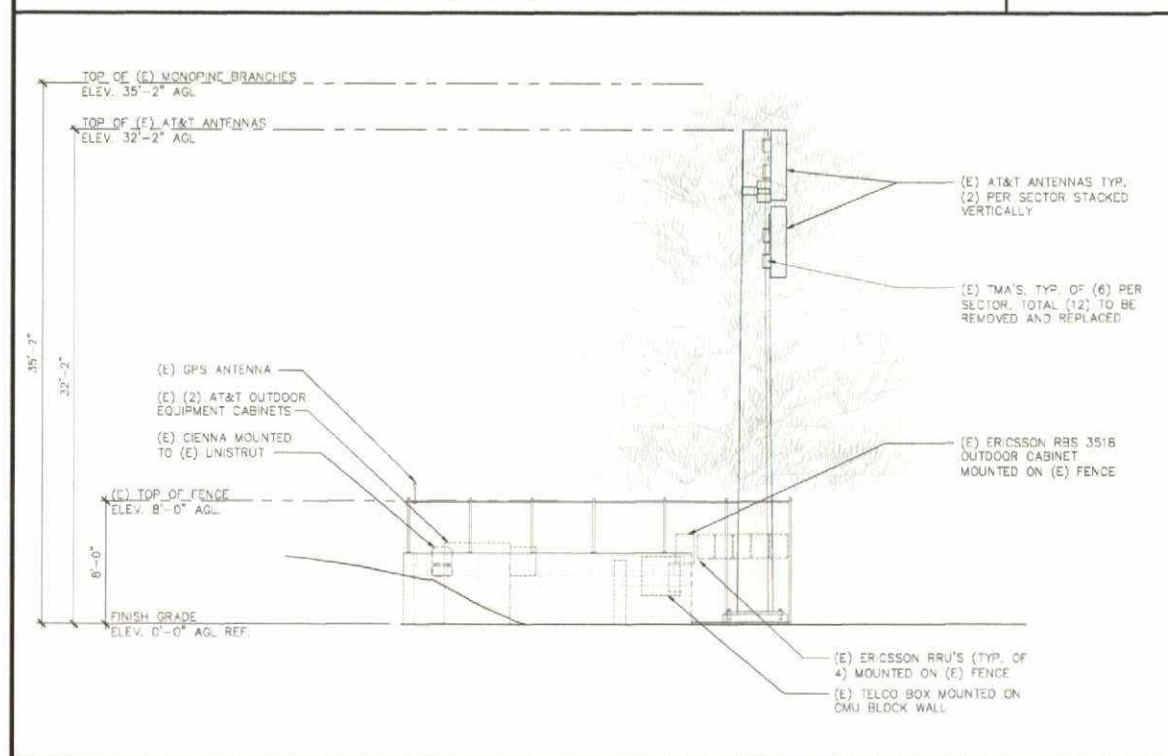
Q1 - NORTH ELEVATION (EXISTING)

SCALE: 3/16"=1'-0"



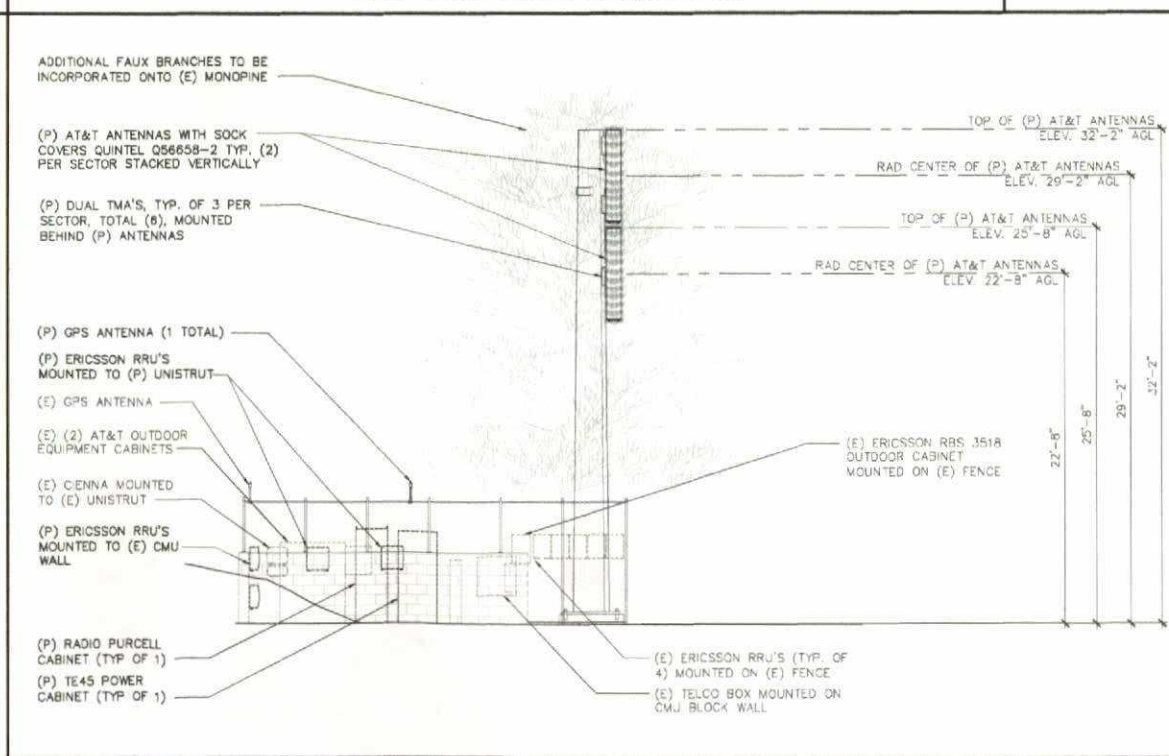
Q2 - NORTH ELEVATION (PROPOSED)

SCALE: 3/16"=1'-0"



Q3 - EAST ELEVATION (EXISTING)

SCALE: 3/16"=1'-0"



Q4 - EAST ELEVATION (PROPOSED)

SCALE: 3/16"=1'-0"



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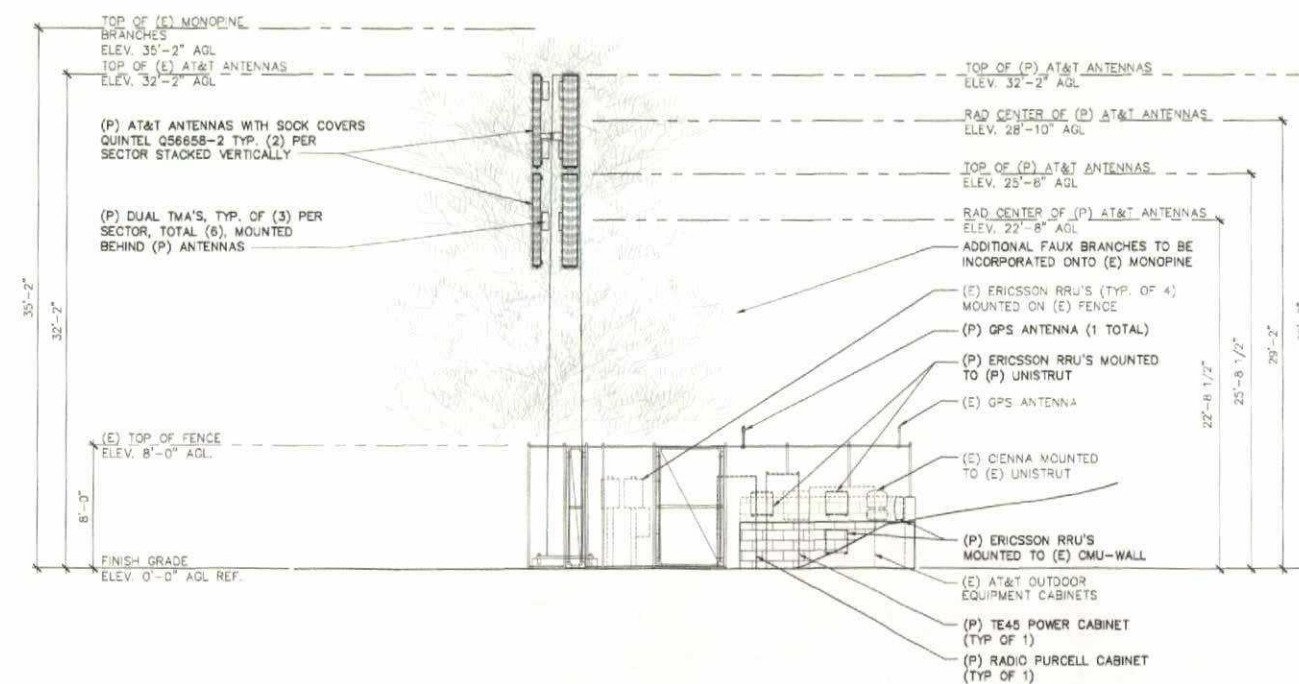
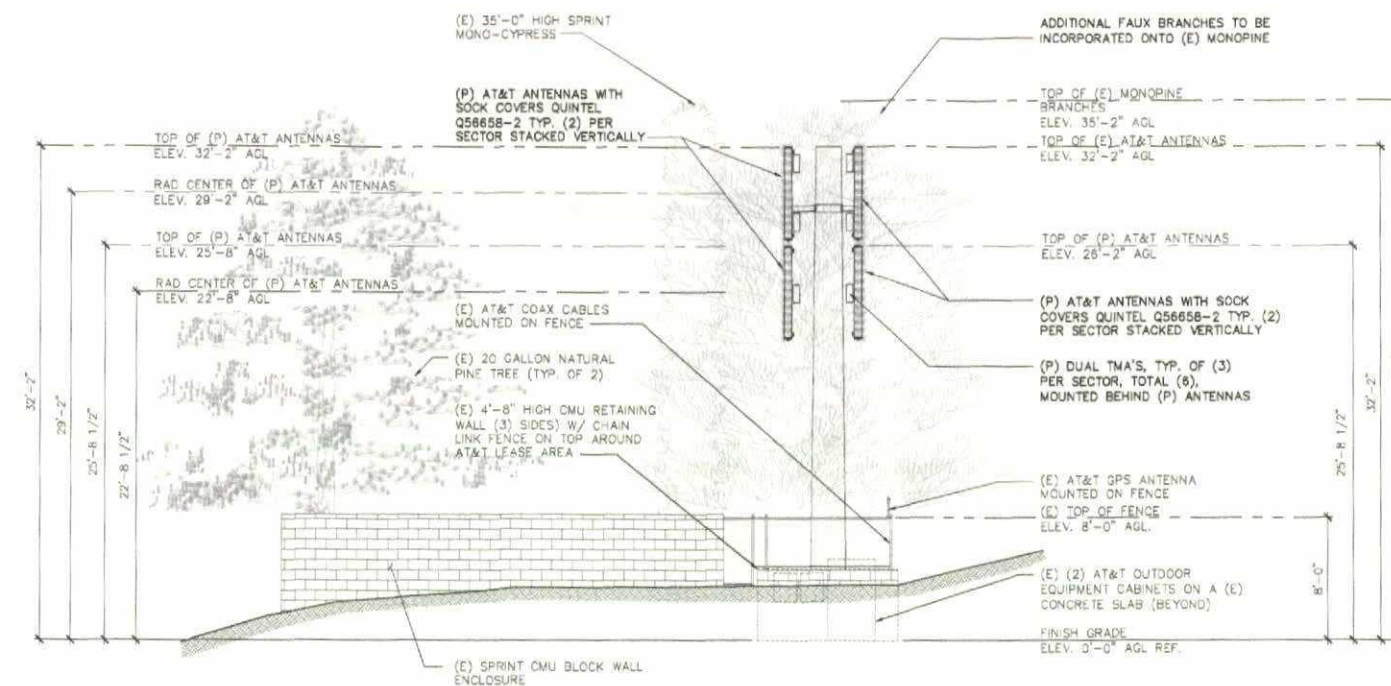
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ALPINE, CA 91901
LTE OPTIMAL

SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NUMBER
A-4



BLACK & VEATCH



Mitchell
Technology

MITCHELL J ARCHITECTURE, INC.
4883 RONSON COURT, SUITE N
SAN DIEGO, CA 92111
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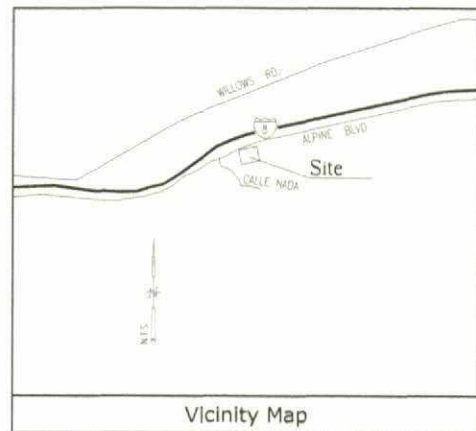
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4737-B CALLE NADA
ALPINE, CA 91901
LTE OPTIMAL

SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NUMBER

A-4.1



Title Report

THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE REPORT.
PREPARED BY:
ORDER NO.:
DATED:

Legal Description

THAT PART OF THOSE PORTIONS OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 30, TOWNSHIP 15 SOUTH, RANGE 3 EAST, S.B.M., ACCORDING TO THE OFFICIAL PLAT THEREOF, AS SAID PORTIONS WERE CONVEYED TO THE STATE OF CALIFORNIA BY DEEDS RECORDED MAY 9, 1949, IN BOOK 1196, PAGE 408; MAY 2, 1949, IN BOOK 1188, PAGE 481; AND JUNE 14, 1949, IN BOOK 1226, PAGE 113, ALL OF OFFICIAL RECORDS OF SAN DIEGO COUNTY, SAID PART HEREBY CONVEYED DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE NORTH-SOUTH QUARTER SECTION LINE OF SAID SECTION 30 AND THE SOUTHERLY LINE OF PARCEL 1 OF RELINQUISHMENT TO THE COUNTY OF SAN DIEGO, NO. 19003, RECORDED JULY 2, 1969, FILE NO. 119950, (OFFICIAL RECORDS OF SAN DIEGO COUNTY), THENCE ALONG THE FOLLOWING NUMBERED COURSES: (1) ALONG SAID NORTH-SOUTH QUARTER SECTION LINE S 87°10'55"E, 108.12 FEET; (2) LEAVING SAID NORTH-SOUTH QUARTER SECTION LINE S 87°35'55"W, 440.00 FEET TO THE EASTERLY LINE OF THAT PARCEL OF LAND DESCRIBED AS PARCEL 1, IN DEED TO RICHARD WINDIGSEN, ET AL, RECORDED JANUARY 17, 1967, FILE NO. 91705, OF SAID OFFICIAL RECORDS; (3) ALONG THE NORTHERLY PROLONGATION OF SAID EASTERLY LINE N 244°09'18", 33.53 FEET TO SAID SOUTHERLY LINE OF SAID COUNTY RELINQUISHMENT; (4) ALONG SAID SOUTHERLY LINE N 77°56'35"E, 445.88 FEET TO THE POINT OF BEGINNING.

Assessor's Parcel No.

406-052-12-00

Easements

NOT AVAILABLE

Access Easement

BEING A STRIP OF LAND 12.00 FEET WIDE LYING WITHIN A PORTION OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 30, TOWNSHIP 15 SOUTH, RANGE 3 EAST, S.B.M., LYING 6 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED CENTERLINE: COMMENCING AT THE INTERSECTION OF THE SOUTHERLY LINE OF ALPINE BOULEVARD AND THE EASTERLY LINE OF THE EASTERLY 440 FEET OF THE SOUTHWEST QUARTER OF SECTION 30 AS SHOWN ON P.O.S. 13173, THENCE ALONG SAID SOUTHERLY LINE OF ALPINE BOULEVARD S 77°57'17"W, 254.22 FEET; TO THE POINT OF BEGINNING, THENCE S 10°02'43"E, 2.67 FEET TO THE BEGINNING OF A TANGENT CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 70.00 FEET; THENCE SOUTHEASTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 88°50'24" AND A HAVING AN ARC DISTANCE OF 108.54 FEET; THENCE N 76°16'31"E, 104.22 FEET; THENCE N 30°41'36"E, 97.46 FEET TO THE BEGINNING OF A TANGENT CURVE CONCAVE SOUTHEASTERLY HAVING A RADIUS OF 5.00 FEET; THENCE NORTHEASTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 50°13'25" HAVING AN ARC DISTANCE OF 4.54 FEET; THENCE N 0°15'02"E, 1.21 FEET TO A POINT ON THE EASTERLY LINE OF THE EASTERLY 440 FEET OF THE SOUTHWEST 1/4 OF SAID SECTION AND TO THE END OF SAID STRIP.

Geographic Coordinates at Existing Monopine

1983 DATUM: LATITUDE = 32°50'11.55"N, LONGITUDE = 116°42'38.94"W
ELEVATION = 2407.0 FEET ABOVE MEAN SEA LEVEL

VERIFICATION:
THE LATITUDE AND LONGITUDE SHOWN ABOVE ARE ACCURATE TO WITHIN +/- 15 FEET HORIZONTALLY AND THAT THE ELEVATIONS SHOWN ABOVE ARE ACCURATE TO WITHIN +/- 3 FEET VERTICALLY. THE HORIZONTAL DATUM (GEOGRAPHIC COORDINATES) IS IN TERMS OF THE NORTH AMERICAN DATUM OF 1983 (NAD 83) AND IS EXPRESSED IN DEGREES (°), MINUTES (') AND SECONDS ("). TO THE NEAREST HUNDREDTH OF A SECOND. THE VERTICAL DATUM (ELEVATIONS) IS IN TERMS OF THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND IS DETERMINED TO THE NEAREST TENTH OF A FOOT.

Basis of Bearings

THE STATE PLANE COORDINATE SYSTEM OF 1983 (NAD 83), CALIFORNIA ZONE 8.

Bench Mark

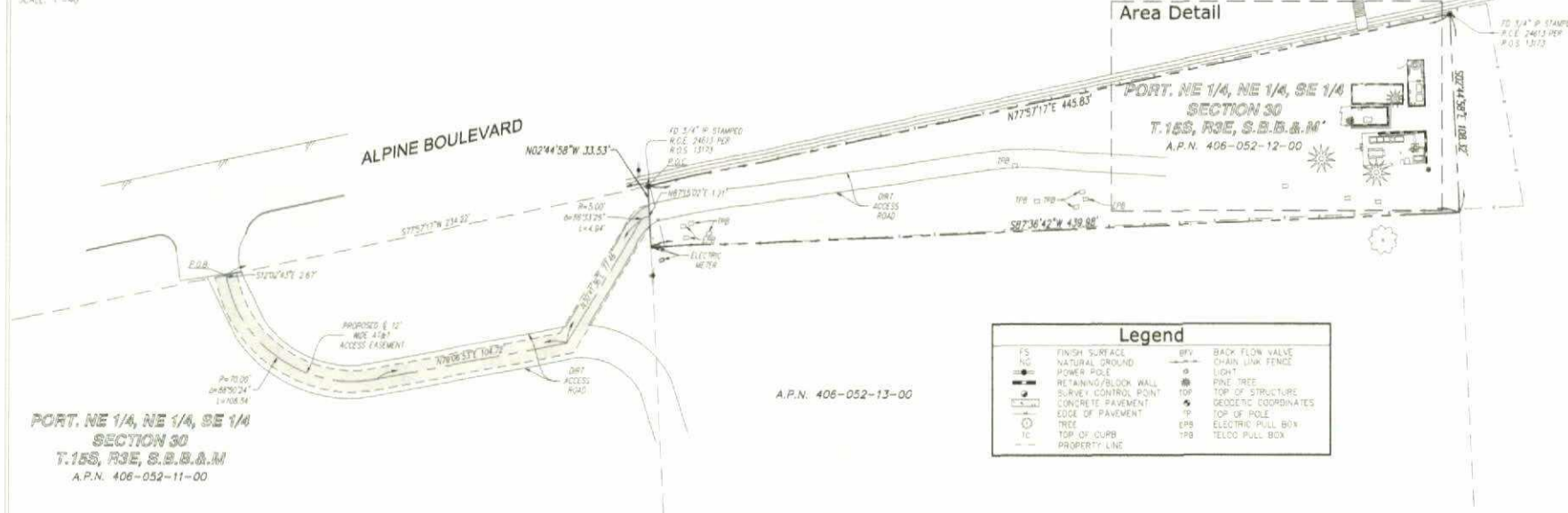
THE CALIFORNIA SPATIAL REFERENCE CENTER (CORS "DESC"), ELEVATION = 3247.97 FEET (NAVD 88).

Date of Survey

JANUARY 17, 2013

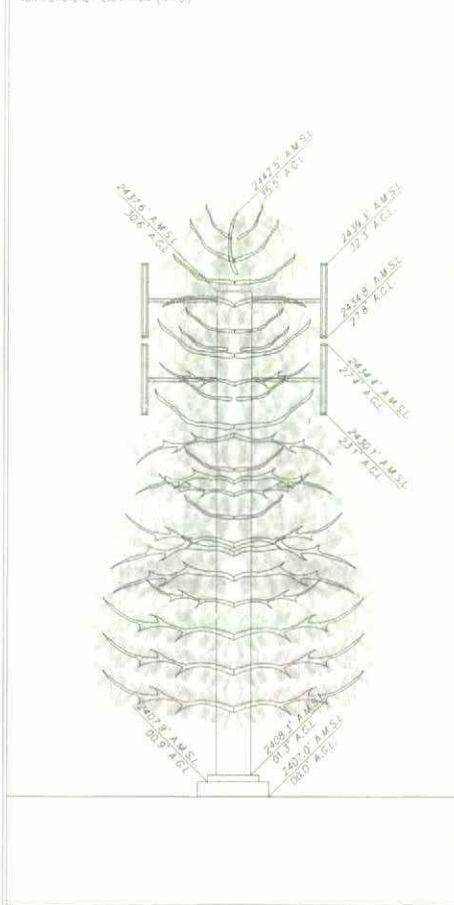
Boundary Detail

SCALE: 1"=40'



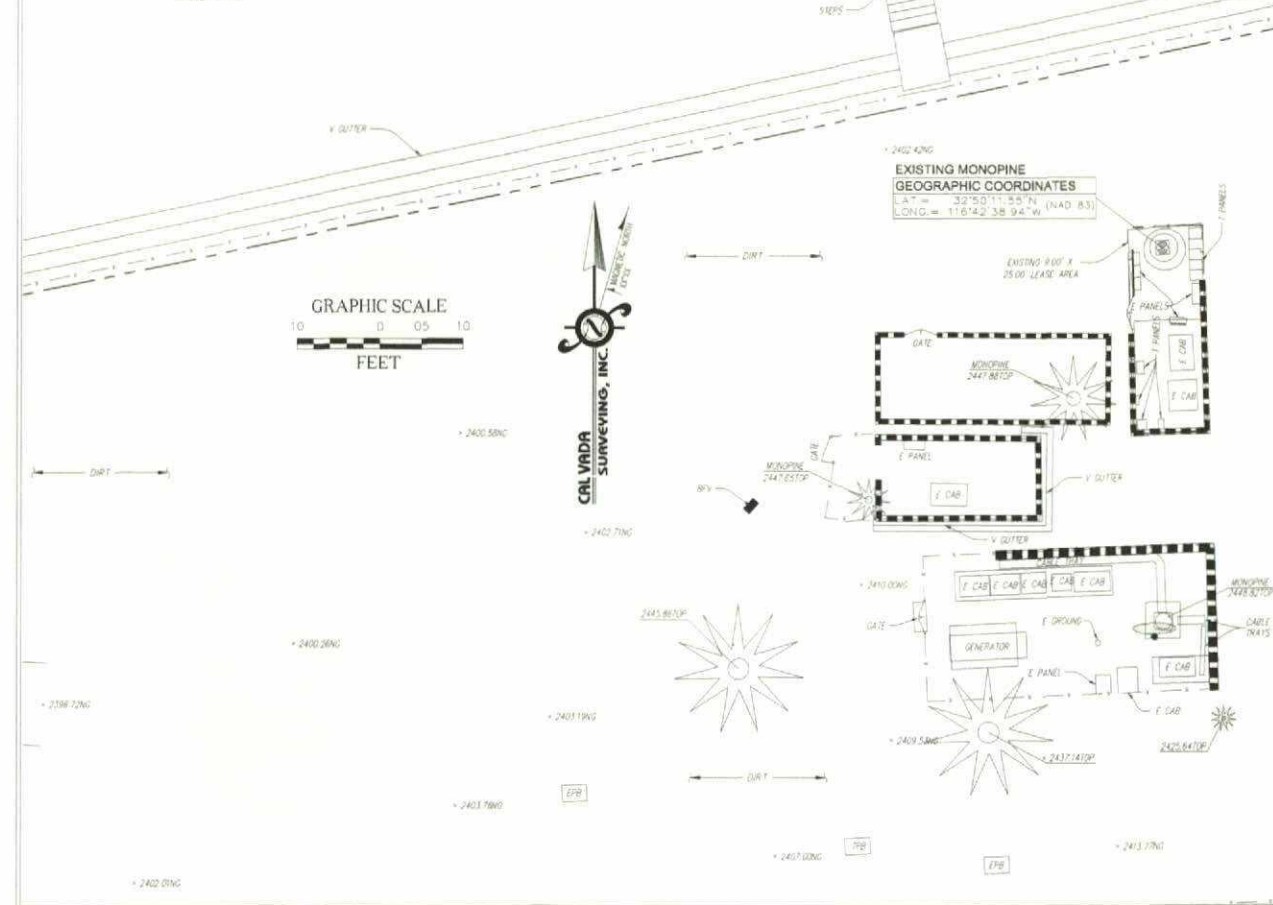
Existing Monopine Profile

NORTHEASTERLY (ELEVATION (N.T.S.))



Lease Area Detail

SCALE: 1"=10'



5738 PACIFIC CENTER BLVD
SAN DIEGO, CA 92121



BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO:

DRAWN BY: GBM

CHECKED BY: RG

01/23/13 SUBMITTAL

CAL VADA SURVEYING, INC.

411 JENNA CT, Suite 205, Corona, CA 92686
Phone: 951-280-6860 Fax: 951-280-6146
Toll Free: 800-CALVADA www.calvada.com

JOB NO. 13026

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.

SD0649
VIEJAS
4737-B CALLE NADA,
ALPINE, CA 91901
SAN DIEGO COUNTY

SHEET TITLE
TOPOGRAPHIC
SURVEY

SHEET NUMBER

LS1