



SITE TYPE:
Monopine

PROJECT:
REPLACEMENT

SITE NAME:
SC09622B

SITE LOCATION:
142 Olympia Park Rd
Grass Valley, CA 95945

RAN TEMPLATE: 67E5D998E6160
A&L TEMPLATE: 67E5998E_1xAIR+1OP+1QP

LEGAL DESCRIPTION:

N/A

UTILITY COMPANIES:

POWER: PG&E
BACKHAUL / AAV: AT&T

PROJECT CONTACT LIST:

APPLICANT:
T-MOBILE
1200 CONCORD AVE. SUITE 500
CONCORD, CA 93420
contact: JAROD SPARROWK
email: jarod.sparrowk1@t-mobile.com

PROPERTY OWNER:
HIGHLAND CRE LLC
125 WHITESTICK RD.
BECKLEY, WV 25801

TOWER OWNER:
VERTICAL BRIDGE
750 PARK OF COMMERCE DR., STE 200
BOCA RATON, FL 33487

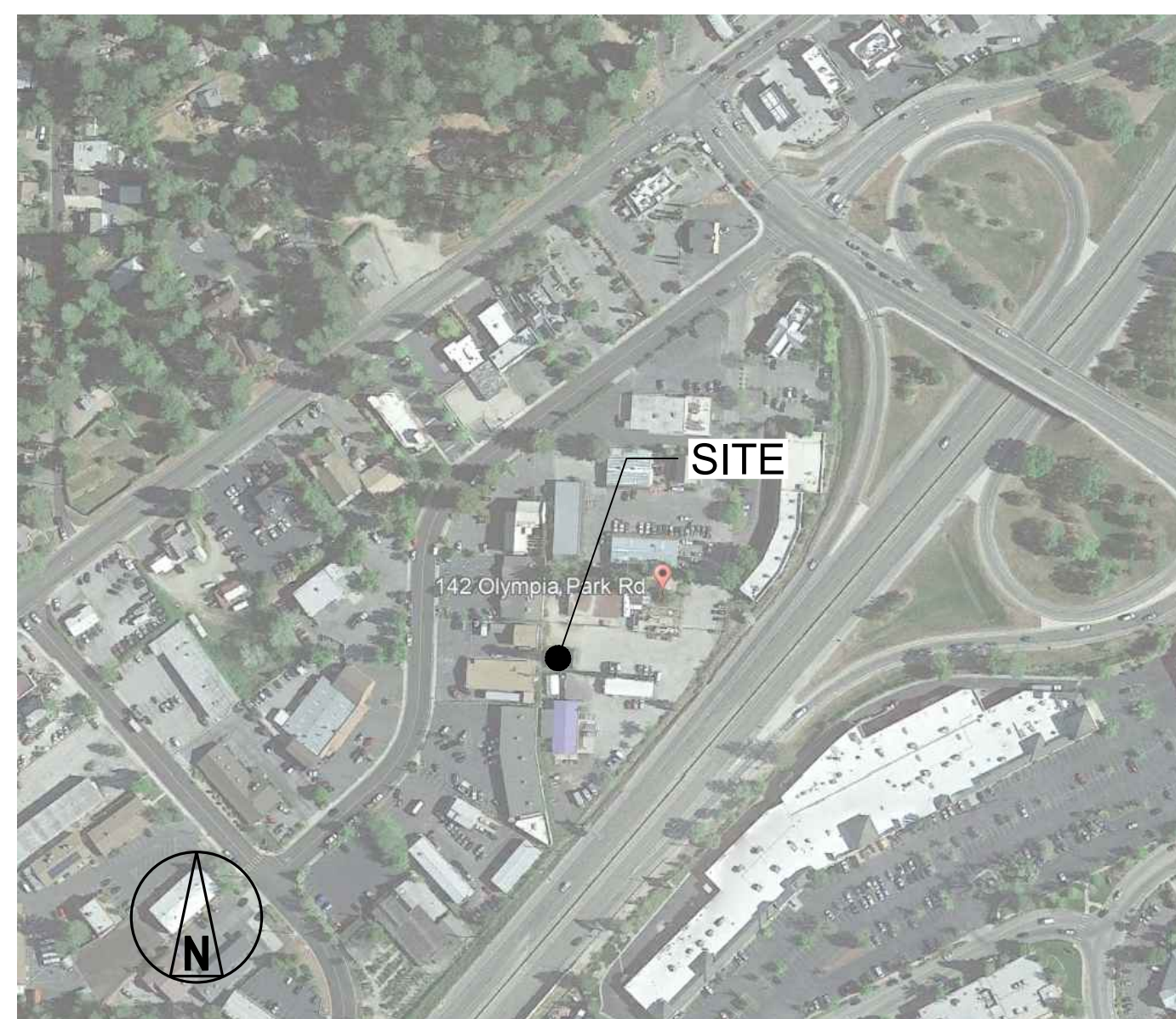
PROJECT ARCHITECT:
BORGES ARCHITECTURAL GROUP, INC.
1478 STONE POINT DRIVE, SUITE 350
ROSEVILLE, CA 95661
contact: JOHN MCDONNELL
email: telecomgroup@borgesarch.com
ph: (916) 782-7200

PROJECT MANAGER:
PRECISION SITE DEVELOPMENT
5098 FOOTHILLS BLVD, STE 3-119
ROSEVILLE, CA 95747
contact: JEREMY JORDAN
email: jeremy@precisionsd.com
cell: 916-918-9322

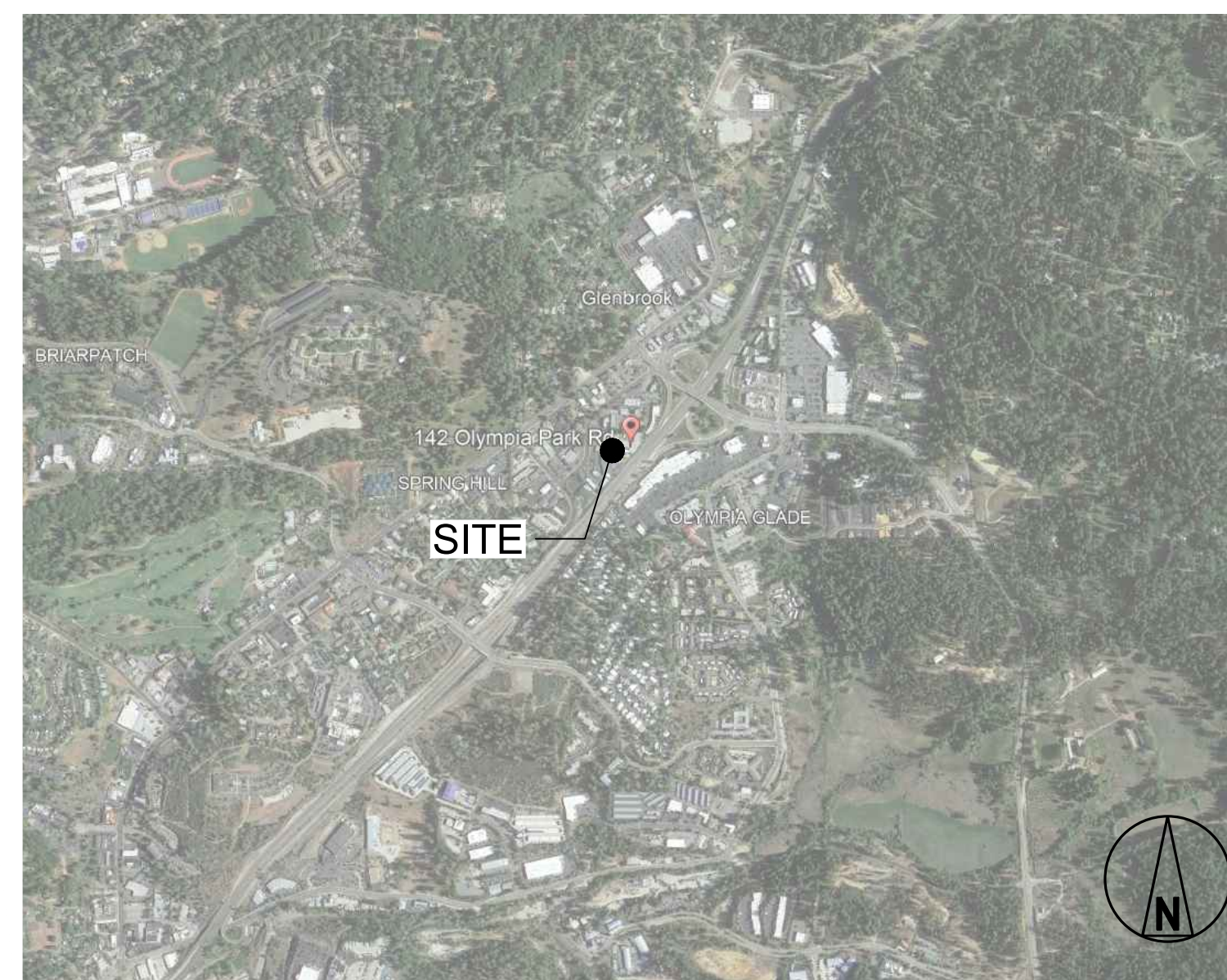
SITE ACQUISITION & PERMITTING:
PRECISION SITE DEVELOPMENT
5098 FOOTHILLS BLVD, STE 3-119
ROSEVILLE, CA 95747
contact: JEREMY JORDAN
email: jeremy@precisionsd.com
cell: 916-918-9322

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LOCATION MAP



VICINITY MAP



PROJECT INFORMATION:

CODE INFORMATION:
ZONING CLASSIFICATION: C-2
CONSTRUCTION TYPE: V-B
OCCUPANCY: UNOCCUPIED
JURISDICTION: CITY OF GRASS VALLEY
PROPOSED BUILDING USE: TELECOMMUNICATIONS: NO CHANGE

SITE LOCATION (NAD83):
LATITUDE: 39.234078
LONGITUDE: -121.039153
TOP OF STRUCTURE: 2732' AMSL
BOTTOM OF STRUCTURE: 2627' AMSL

PROJECT LEASE AREA: 150 Sq. Ft.
PARCEL NUMBER: 035-320-044

NEW IMPERVIOUS AREA: 0 SF
AREA OF PARCEL: 1.10 Acres

GENERAL INFORMATION:
PARKING REQUIREMENTS ARE UNCHANGED
TRAFFIC IS UNAFFECTED
SIGNAGE IS PROPOSED

PROJECT DESCRIPTION:

INSTALLATION OF NEW SITE EQUIPMENT:

- TOWER SCOPE OF WORK: EXISTING TOWER COLLOCATION**
- INSTALL 17' EXTENSION TO EXISTING MONOPINE.
 - INSTALL NEW TMO EQUIPMENT AT 93' CENTERLINES AS FOLLOWS:
 - INSTALL (3) ERICSSON AIR 6419 B41 ANTENNAS
 - INSTALL (3) COMMScope FFV-65C-R2N23 ANTENNAS
 - INSTALL (1) RMVD8-296-18 MOUNTING ASSEMBLIES
 - INSTALL (3) ERICSSON 4460 RRUs
 - INSTALL (3) ERICSSON 4480 RRUs
 - INSTALL (2) HCS 6/24 4AWG CABLES 40M

- GROUND SCOPE OF WORK:**
- INSTALL 10' x 15' CONCRETE EQUIPMENT PAD
 - INSTALL (1) ERICSSON E6160AC V2 EQUIPMENT CABINET
 - INSTALL (1) ERICSSON B160 BATTERY CABINET
 - INSTALL NEW 400A SERVICE ENTRY W/BUSSED GUTTER WITH NEW 200A TMO METER AND RELOCATED 200A VERIZON METER
 - ADD (2) RP6651
 - ADD (1) IXRe
 - ADD NECESSARY FIBER AND JUMPER CABLES

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL SIZE AT 24" x 36". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOBSITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.

PLANS PREPARED FOR:



1200 CONCORD AVE., SUITE 500
CONCORD, CA 94520

PLANS PREPARED BY:



P.O. BOX 220, ROSEVILLE, CA 95661
916.782.7200 / www.borgesarch.com

OEM:

MLA PARTNER:



5098 FOOTHILLS BLVD, STE 3-119
ROSEVILLE, CA 95747

ENGINEERING SEAL:

DRAWING NOTICE:

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REVISIONS:

DESCRIPTION	DATE	BY	REV
90% CD SUBMITTAL	12/19/23	JVM	0
100% CD SUBMITTAL	02/23/24	JVM	1
100% CD (R1)	07/09/24	JVM	2
100% CD (R2)	08/30/24	JVM	3
100% CD (R3)	03/12/25	JVM	4
100% CD (R4)	04/03/25	JVM	5
100% CD (R5)	09/10/25	LE	6

SITE NAME:

Grass Valley North

SITE IDENTIFICATION:

SC09622B

SITE ADDRESS:

142 OLYMPIA PARK RD
GRASS VALLEY, CA 95945

SHEET DESCRIPTION:

TITLE SHEET

SHEET NUMBER:

T-1

DRIVING DIRECTIONS:

FROM T-MOBILE OFFICE AT 1200 CONCORD AVE., CONCORD, CA

HEAD NORTH TOWARD CONCORD AVE	USE THE LEFT 2 LANES TO TURN LEFT ONTO CA-193 W/CA-49
CONTINUE ONTO NEW DRIVE	N/GRASS VALLEY HWY
SHARP LEFT ONTO CONCORD AVE	TAKE EXIT 183B FOR BRUNSWICK RD
USE THE RIGHT LANE TO TAKE THE RAMP ONTO I-680 N	SHARP LEFT ONTO BRUNSWICK RD
TAKE EXIT 71A TO MERGE ONTO CA-12 E/I-80 E TOWARD I-80 E/SACRAMENTO	TURN LEFT ONTO MALTMAN DR
USE THE RIGHT 2 LANES TO TAKE THE I-80 E EXIT TOWARD RENO	TURN LEFT AFTER TACO BELL (ON THE LEFT)
TAKE EXIT 119B FOR CA-49 TOWARD GRASS VALLEY/PLACERVILLE	DESTINATION WILL BE ON THE RIGHT

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

APPROVED BY:	DATE:	SIGNATURE:	APPROVED BY:	DATE:	SIGNATURE:
PROJECT MANAGER:			RF ENGINEER:		
SITE ACQUISITION:			OPERATIONS MANAGER:		
ZONING:			DEVELOPMENT MANAGER:		
CONSTRUCTION MANAGER:			REGULATORY:		
CONSTRUCTION MANAGER:					



KNOW WHAT'S BELOW
CALL BEFORE YOU DIG
WWW.CALL811.COM

GENERAL CONSTRUCTION NOTES:

- PLANS ARE INTENDED TO BE DIAGRAMATIC 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.
- THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- 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.
- 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.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC 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.
- 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.
- 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.
- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- 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.
- 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.
- 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.
- ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO ITS 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.
- 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.
- INCLUDE MISC. ITEMS PER T-MOBILE 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, FOURTEENTH EDITION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, 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.

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 CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- CALIFORNIA ADMINISTRATIVE CODES (INCL. TITLES 24 & 25) 2022
- CALIFORNIA BUILDING CODE 2022
- CALIFORNIA ELECTRICAL CODE 2022
- CALIFORNIA MECHANICAL CODE 2022
- CALIFORNIA PLUMBING CODE 2022
- CALIFORNIA FIRE CODE 2022
- LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE.
- CITY / COUNTY ORDINANCES

ALONG WITH ANY OTHER APPLICABLE LOCAL AND STATE LAWS AND REGULATIONS

SHOULD ANY CAIRN OR GRAVE OF A NATIVE AMERICAN BE DISCOVERED DURING SITE DEVELOPMENT, WORK SHALL TEMPORARILY BE HALTED AT THE SPECIFIC SITE AND THE SHERIFF'S OFFICE AS WELL AS THE STATE HISTORIC PRESERVATION OFFICE OF THE DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES SHALL BE IMMEDIATELY NOTIFIED PER NRS 383.170

ABBREVIATIONS

A.B.	ANCHOR BOLT	ICGB.	ISOLATED COPPER GROUND BUS
ABV.	ABOVE	IN. (")	INCH(ES)
ACCA	ANTENNA CABLE COVER ASSEMBLY	INT.	INTERIOR
ADD'L	ADDITIONAL	LB.(#)	POUND(S)
A.F.F.	ABOVE FINISHED FLOOR	L.B.	LAG BOLTS
A.F.G.	ABOVE FINISHED GRADE	L.F.	LINEAR FEET (FOOT)
ALUM.	ALUMINUM	L.	LONG (TUDINAL)
ALT.	ALTERNATE	MAS.	MASONRY
ANT.	ANTENNA	MAX.	MAXIMUM
APPRX.	APPROXIMATE(LY)	M.B.	MACHINE BOLT
ARCH.	ARCHITECT(URAL)	MECH.	MECHANICAL
AWG.	AMERICAN WIRE GAUGE	MFR.	MANUFACTURER
BLDG.	BUILDING	MIN.	MINIMUM
BLK.	BLOCK	MISC.	MISCELLANEOUS
BLKG.	BLOCKING	MTL.	METAL
BM.	BEAM	(N)	NEW
B.N.	BOUNDARY NAILING	NO (#)	NUMBER
BTCW.	BARE TINNED COPPER WIRE	N.T.S.	NOT TO SCALE
B.O.F.	BOTTOM OF FOOTING	O.C.	ON CENTER
BU	BACK-UP CABINET	OPNG.	OPENING
CAB.	CABINET	(P)	PROPOSED
CANT.	CANTILEVER(ED)	P/C	PRECAST CONCRETE
C.I.P.	CAST IN PLACE	PCS	PERSONAL COMMUNICATION SERVICES
CLG.	CEILING	PLY.	PLYWOOD
CLR.	CLEAR	PPC	POWER PROTECTION CABINET
COAX	COAXIAL	PRC	PRIMARY RADIO CABINET
COL.	COLUMN	P.S.F.	POUNDS PER SQUARE FOOT
CONC.	CONCRETE	P.S.I.	POUNDS PER SQUARE INCH
CONN.	CONNECTION(OR)	P.T.	PRESSURE TREATED
CONST.	CONSTRUCTION	PWR.	POWER (CABINET)
CONT.	CONTINUOUS	QTY.	QUANTITY
d	PENNY (NAILS)	RAD.(R)	RADIUS
DBL.	DOUBLE	REF.	REFERENCE
DEPT.	DEPARTMENT	REINF.	REINFORCEMENT(ING)
D.F.	DOUGLAS FIR	REQ'D/	REQUIRED
DIA.	DIAMETER	RGS.	RIGID GALVANIZED STEEL
DIAG.	DIAGONAL	SCH.	SCHEDULE
DIM.	DIMENSION	SHT.	SHEET
DWG.	DRAWING(S)	SIM.	SIMILAR
DWL.	DOWEL(S)	SPEC.	SPECIFICATIONS
EA.	EACH	SQ.	SQUARE
EL.	ELEVATION	S.S.	STAINLESS STEEL
ELEC.	ELECTRICAL	STD.	STANDARD
ELEV.	ELEVATOR	STL.	STEEL
EMT.	ELECTRICAL METALLIC TUBING	STRUC.	STRUCTURAL
E.N.	EDGE NAIL	TEMP.	TEMPORARY
ENG.	ENGINEER	THK.	THICK(NESS)
EQ.	EQUAL	T.N.	TOE NAIL
EXP.	EXPANSION	T.O.A.	TOP OF ANTENNA
EXST.(E)	EXISTING	T.O.C.	TOP OF CURB
EXT.	EXTERIOR	T.O.F.	TOP OF FOUNDATION
FAB.	FABRICATION(OR)	T.O.P.	TOP OF PLATE (PARAPET)
F.F.	FINISH FLOOR	T.O.S.	TOP OF STEEL
F.G.	FINISH GRADE	T.O.W.	TOP OF WALL
FIN.	FINISH(ED)	TYP.	TYPICAL
FLR.	FLOOR	U.G.	UNDER GROUND
FDN.	FOUNDATION	U.L.	UNDERWRITERS LABORATORY
F.O.C.	FACE OF CONCRETE	U.N.O.	UNLESS NOTED OTHERWISE
F.O.M.	FACE OF MASONRY	V.I.F.	VERIFY IN FIELD
F.O.S.	FACE OF STUD	W	WIDE (WIDTH)
F.O.W.	FACE OF WALL	w/	WITH
F.S.	FINISH SURFACE	WD.	WOOD
FT. (')	FOOT (FEET)	W.P.	WEATHERPROOF
FTG.	FOOTING	WT.	WEIGHT
G.	GROWTH (CABINET)	Ø	CENTERLINE
GA.	GAUGE	P	PLATE, PROPERTY LINE
GI.	GALVANIZE(D)		
G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER		
GLB. (GLU-LAM)	GLUE LAMINATED BEAM		
GPS	GLOBAL POSITIONING SYSTEM		
GRND.	GROUND		
HDR.	HEADER		
HGR.	HANGER		
HT.	HEIGHT		

PLANS PREPARED FOR:



1200 CONCORD AVE., SUITE 500
CONCORD, CA 94520

PLANS PREPARED BY:



P.O. BOX 220, ROSEVILLE, CA 95661
916.782.7200 / www.borgesarch.com

OEM:

MLA PARTNER:



5098 FOOTHILLS BLVD, STE 3-119
ROSEVILLE, CA 95747

ENGINEERING SEAL:

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100% CD SUBMITTAL	02/23/24	JVM	1
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100% CD (R3)	03/12/25	JVM	4
100% CD (R4)	04/03/25	JVM	5
100% CD (R5)	09/10/25	LE	6

SITE NAME:

Grass Valley North

SITE IDENTIFICATION:

SC09622B

SITE ADDRESS:

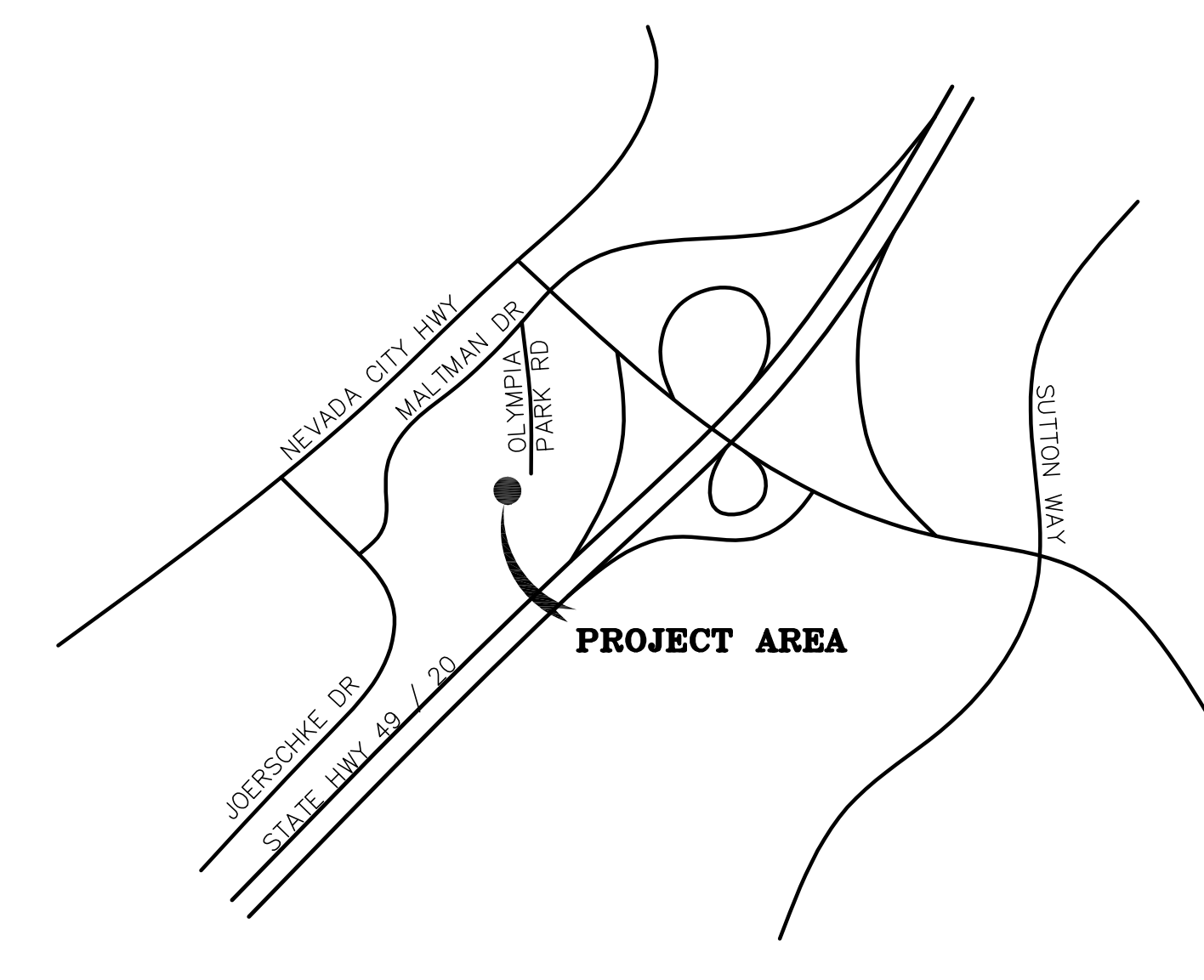
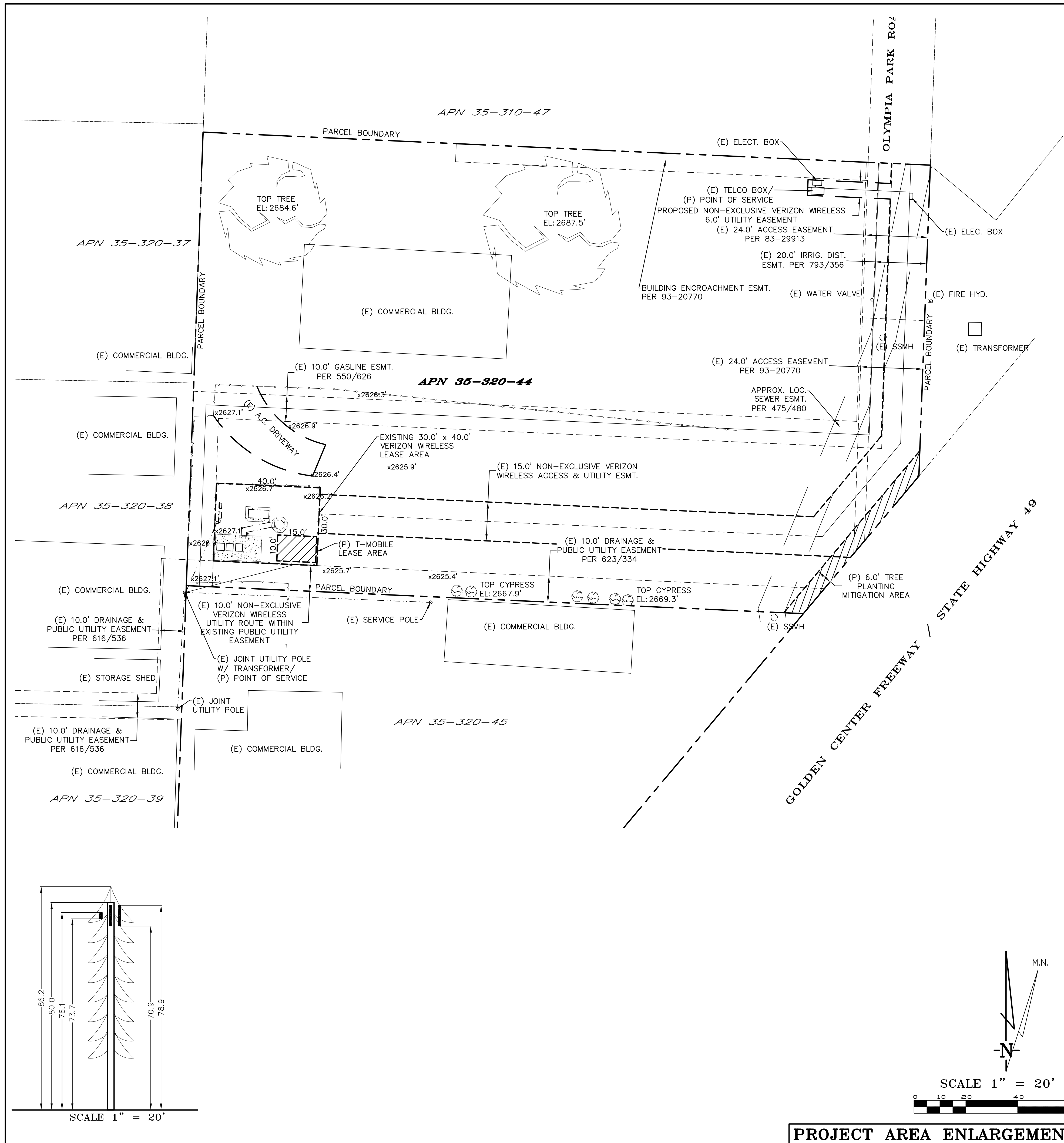
142 OLYMPIA PARK RD
GRASS VALLEY, CA 95945

SHEET DESCRIPTION:

GENERAL NOTES,
ABBREVIATIONS

SHEET NUMBER:

GN-1



GRASS VALLEY, CA

VICINITY MAP

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF GEIL ENGINEERING AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE AND CARRIER FOR WHICH THEY ARE PREPARED. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM GEIL ENGINEERING. TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN WITH GEIL ENGINEERING WITHOUT PREJUDICE AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.

DATE OF SURVEY: 10-02-23

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, E.C.E. 14803

LOCATED IN THE COUNTY OF NEVADA, STATE OF CALIFORNIA

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL UNLESS OTHERWISE NOTED.

N.G.V.D. 1929 CORRECTION: SUBTRACT 2.50' FROM ELEVATIONS SHOWN.

CONTOUR INTERVAL: N.A.

ASSESSOR'S PARCEL NUMBER: 035-320-044

LANDLORD(S): HIGHLAND CRE LLC
125 WHITESTICK RD.
BECKLEY, WV 25801

Project Name: SC09622B Grass Valley North

Project Site Location: 142 Olympia Park Road
Grass Valley, CA 95945
Nevada County

Date of Observation: 10-02-23

Equipment/Procedure Used to Obtain Coordinates: Trimble GeoXT post processed with Pathfinder Office software.

Type of Antenna Mount: Existing Free Standing Monopine

Coordinates (Centerline Tower)

Latitude: N 39°14'02.70" (NAD83) N 39°14'03.08" (NAD27)
Longitude: W 121°02'20.78" (NAD83) W 121°02'16.97" (NAD27)

Latitude: N 39.234084° (NAD83) N 39.23190° (NAD27)
Longitude: W 121.039106° (NAD83) W 121.038047° (NAD27)

ELEVATION of Ground at Structure (NAVD88) 2627' AMSL
Height of Structure: 80' AGL
Overall height:(Faux Canopy) 86.2' AGL

DEPT	APPROVED	DATE
ARC		
RE		
RF		
INT		
EE\IN		
OPS		
EE\OUT		

Surveyor

GEIL ENGINEERING
ENGINEERING • SURVEYING • PLANNING
1226 HIGH STREET
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SC09622B
Grass Valley North
142 Olympia Park Road
Grass Valley, CA 95945

T-Mobile

SC09622B
Grass Valley North
142 Olympia Park Road
Grass Valley, CA 95945

PLOT PLAN AND
SITE TOPOGRAPHY

REVISIONS	DG
10-02-23 Preliminary Drawing	DG
07-18-24 Lease area added	DG

Sheet

C-1

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5098 FOOTHILLS BLVD, STE 3-119
ROSEVILLE, CA 95747

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REVISIONS:

DESCRIPTION	DATE	BY	REV
90% CD SUBMITTAL	12/19/23	JVM	0
100% CD SUBMITTAL	02/23/24	JVM	1
100% CD (R1)	07/09/24	JVM	2
100% CD (R2)	08/30/24	JVM	3
100% CD (R3)	03/12/25	JVM	4
100% CD (R4)	04/03/25	JVM	5
100% CD (R5)	09/10/25	LE	6

SITE NAME:

Grass
Valley North

SITE IDENTIFICATION:

SC09622B

SITE ADDRESS:

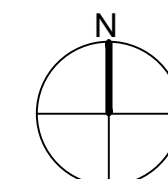
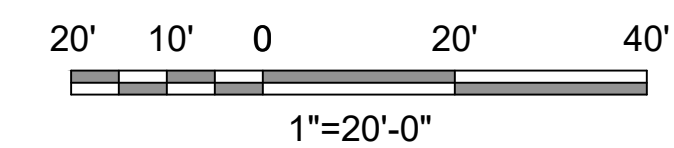
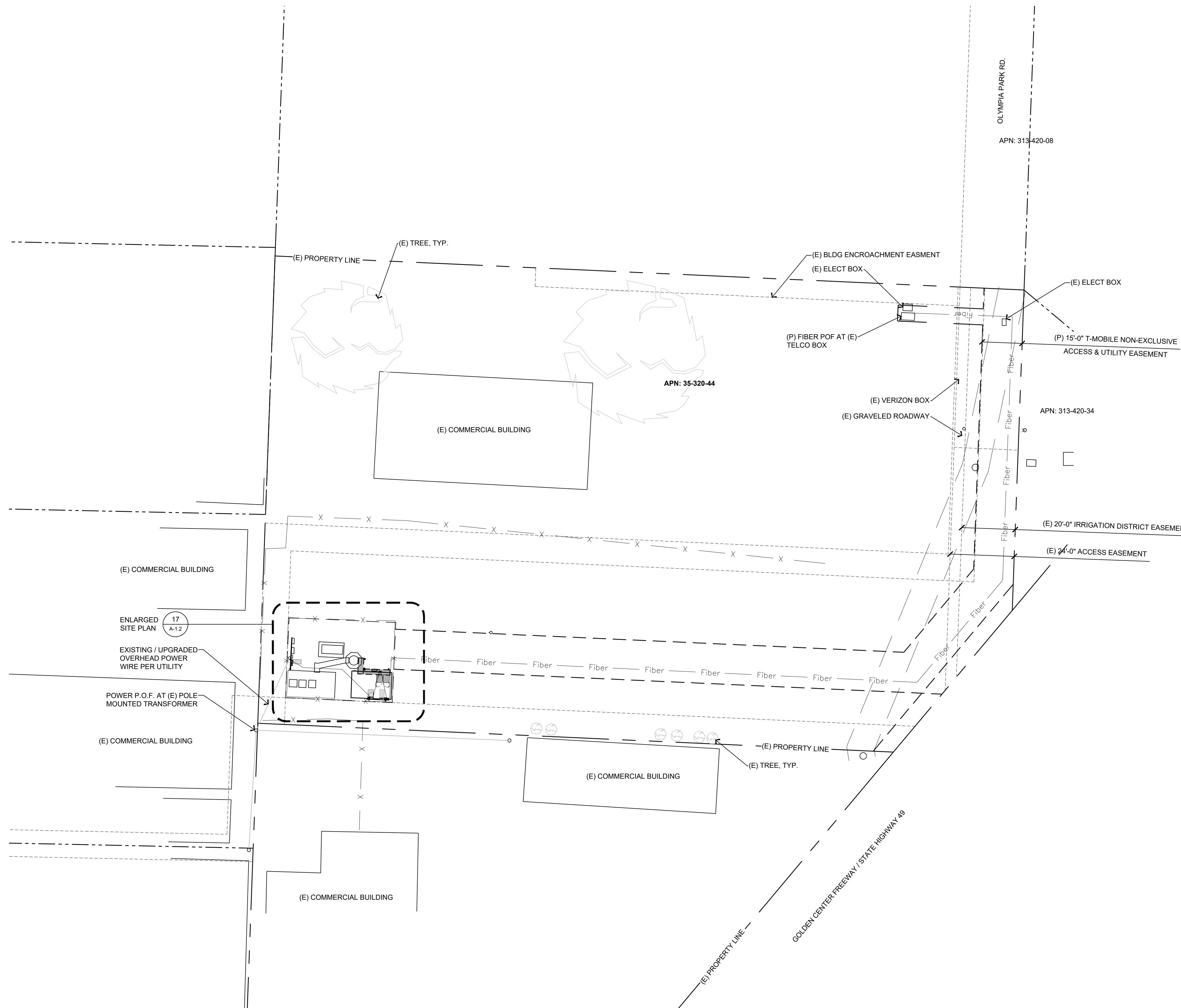
142 OLYMPIA PARK RD
GRASS VALLEY, CA 95945

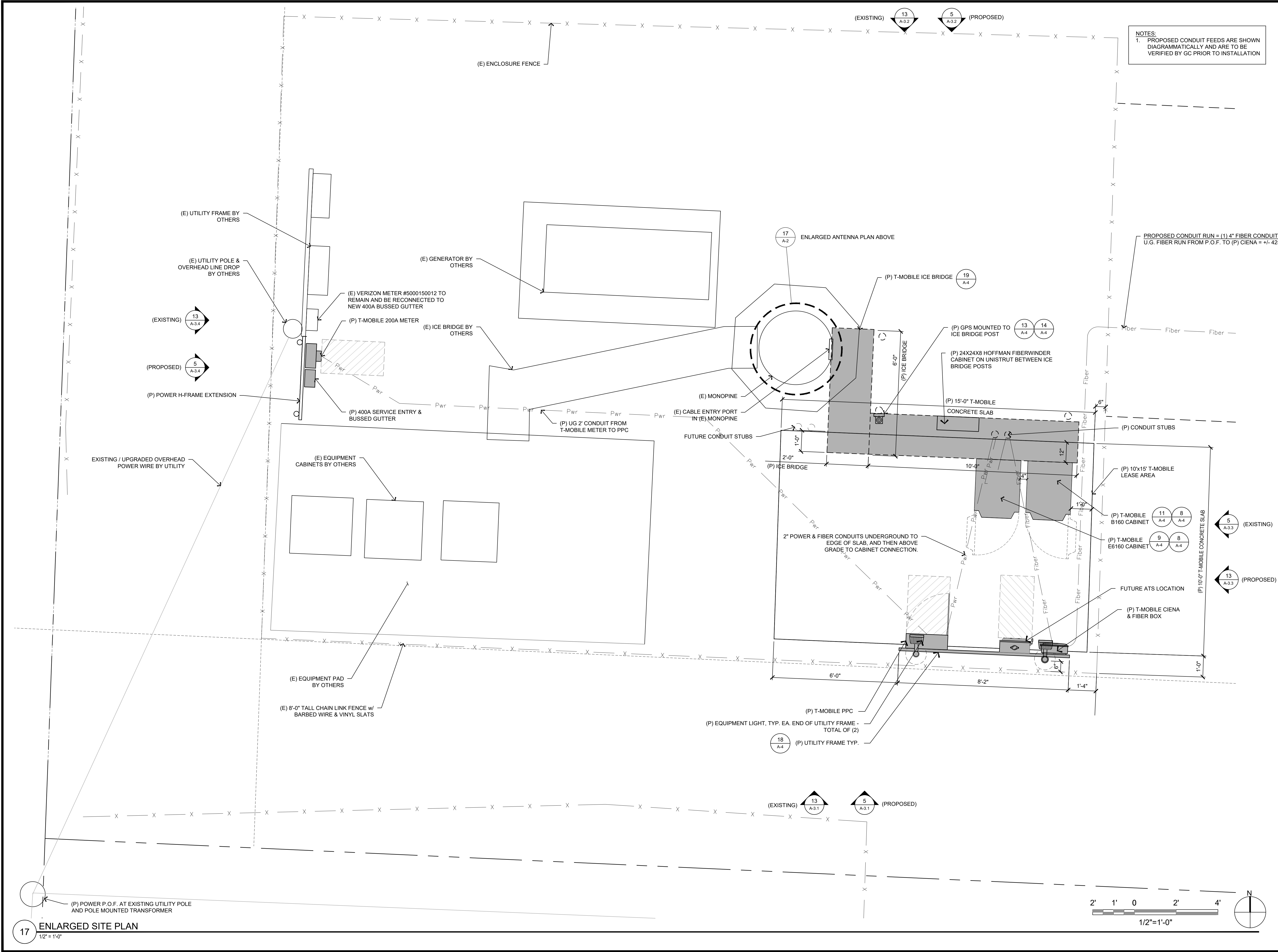
SHEET DESCRIPTION:

OVERALL SITE PLAN

SHEET NUMBER:

A-1.1





NOTES:
1. PROPOSED CONDUIT FEEDS ARE SHOWN DIAGRAMMATICALLY AND ARE TO BE VERIFIED BY GC PRIOR TO INSTALLATION

PLANS PREPARED FOR:
T-Mobile
1200 CONCORD AVE., SUITE 500
CONCORD, CA 94520

PLANS PREPARED BY:
BORGES
ARCHITECTURE | INTERIORS
P.O. BOX 220, ROSEVILLE, CA 95661
916.782.7200 / www.borgesarch.com

OEM:

MLA PARTNER:
PRECISION
5098 FOOTHILLS BLVD, STE 3-119
ROSEVILLE, CA 95747

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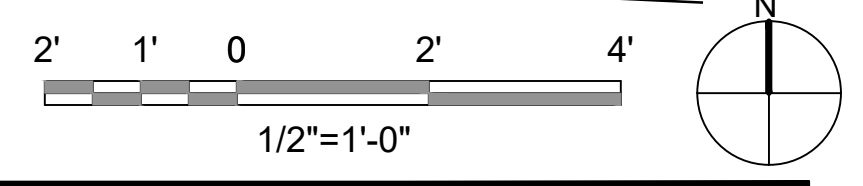
SITE NAME:
Grass Valley North

SITE IDENTIFICATION:
SC09622B

SITE ADDRESS:
142 OLYMPIA PARK RD
GRASS VALLEY, CA 95945

SHEET DESCRIPTION:
ENLARGED SITE PLAN

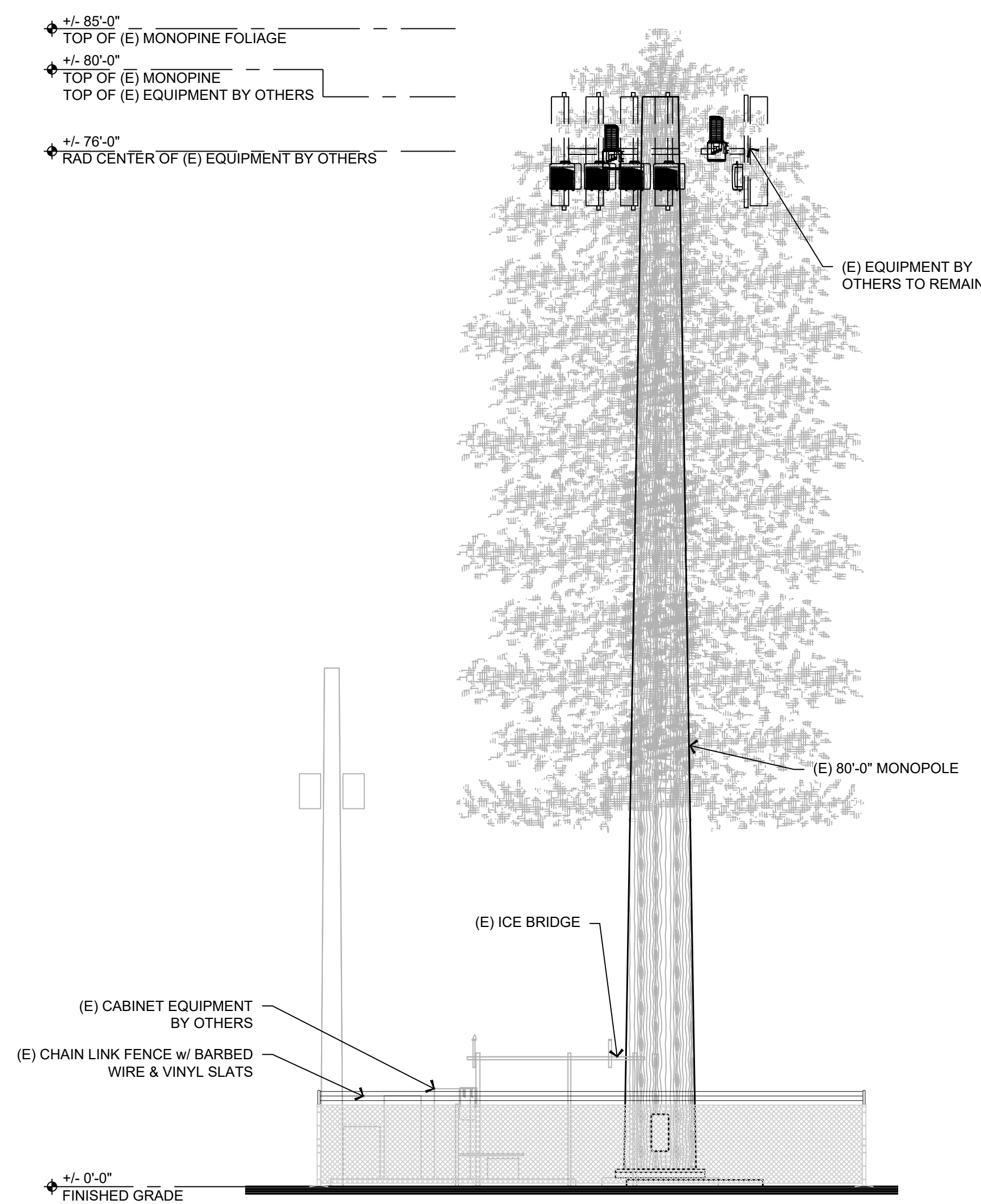
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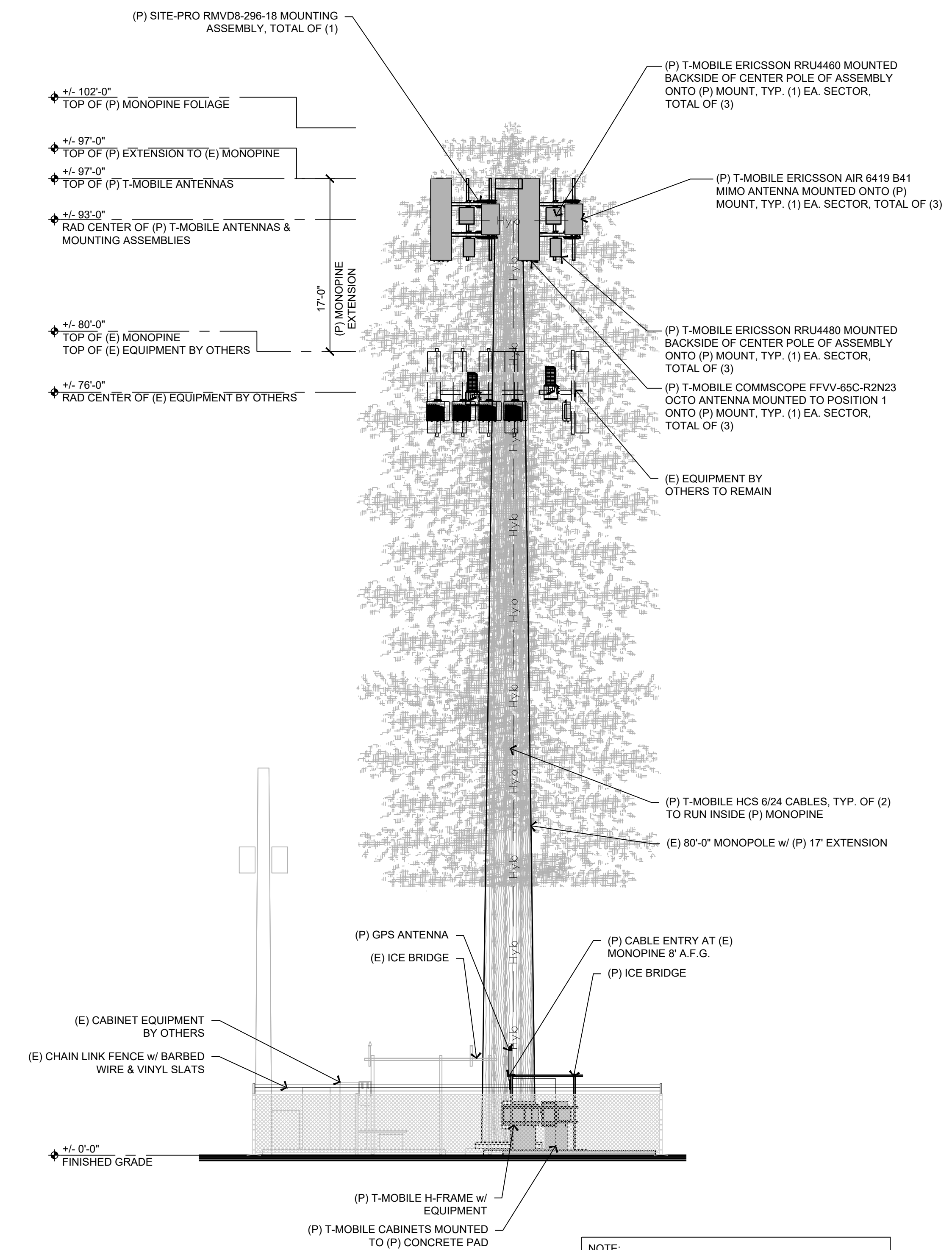
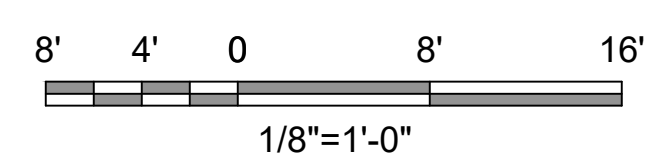
17 ENLARGED SITE PLAN
1/2" = 1'-0"

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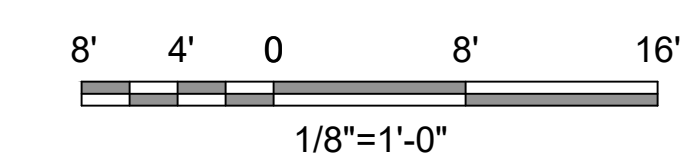


13 EXISTING SOUTH ELEVATION
1/8" = 1'-0"



NOTE:
 1. ALL ANTENNAS TO BE COVERED WITH RF-FRIENDLY EQUIPMENT SOCKS, SAME COLOR AS MONOPIE FOLIAGE
 2. MONOPIE EQUIPMENT IS SHOWN FOR CLARITY OF SUBMITTAL - TO BE COMPLETELY SCREENED BY FOLIAGE IN FIELD
 3. GROUND EQUIPMENT IS SHOWN FOR CLARITY OF SUBMITTAL - HIDDEN BEHIND PRIVACY SLATS

5 PROPOSED SOUTH ELEVATION
1/8" = 1'-0"



PLANS PREPARED FOR:
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BORGES
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	100% CD (R4)	04/03/25	JVM	5
	100% CD (R5)	09/10/25	LE	6

SITE NAME:
Grass Valley North

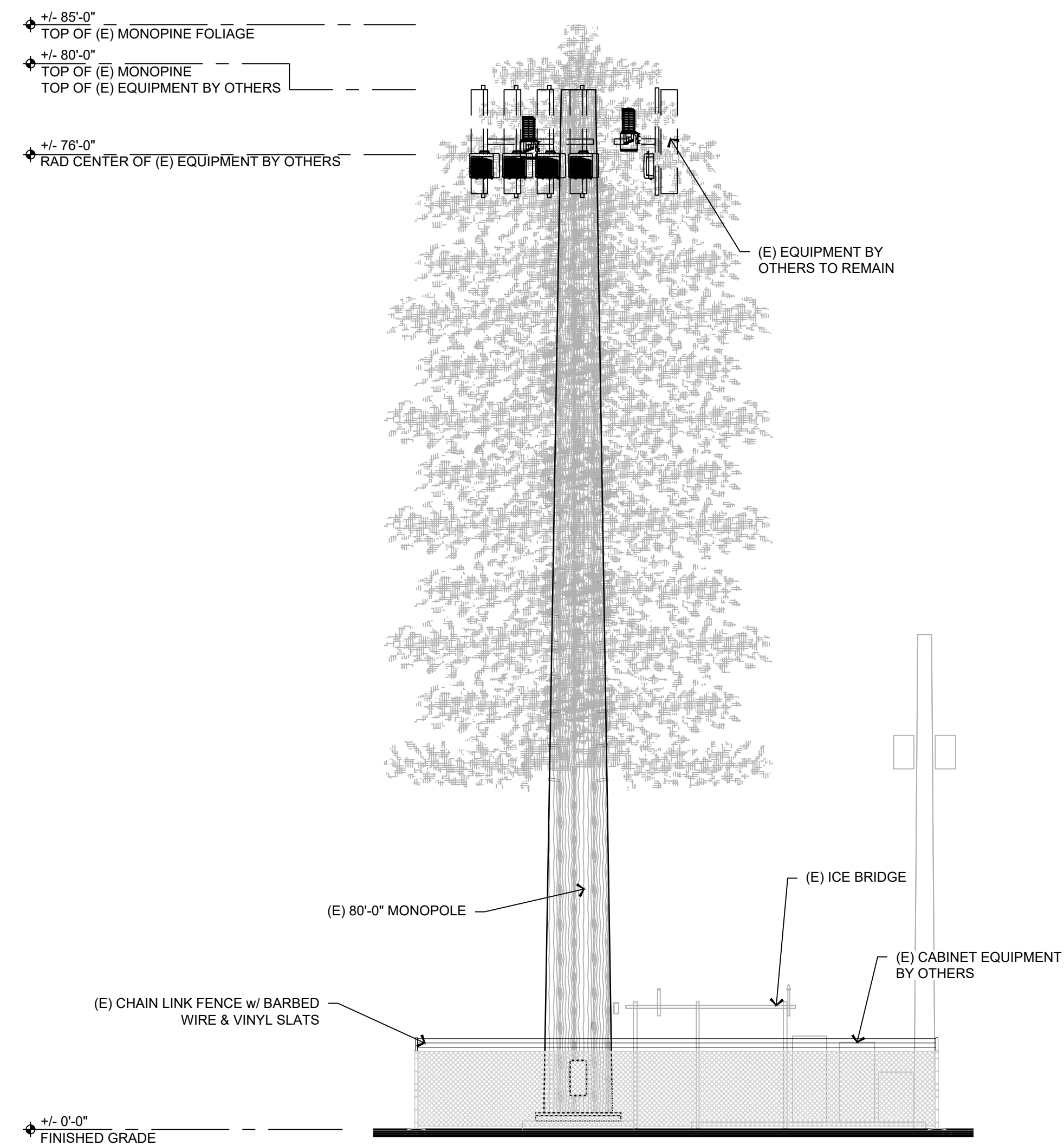
SITE IDENTIFICATION:
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SITE ADDRESS:
 142 OLYMPIA PARK RD
 GRASS VALLEY, CA 95945

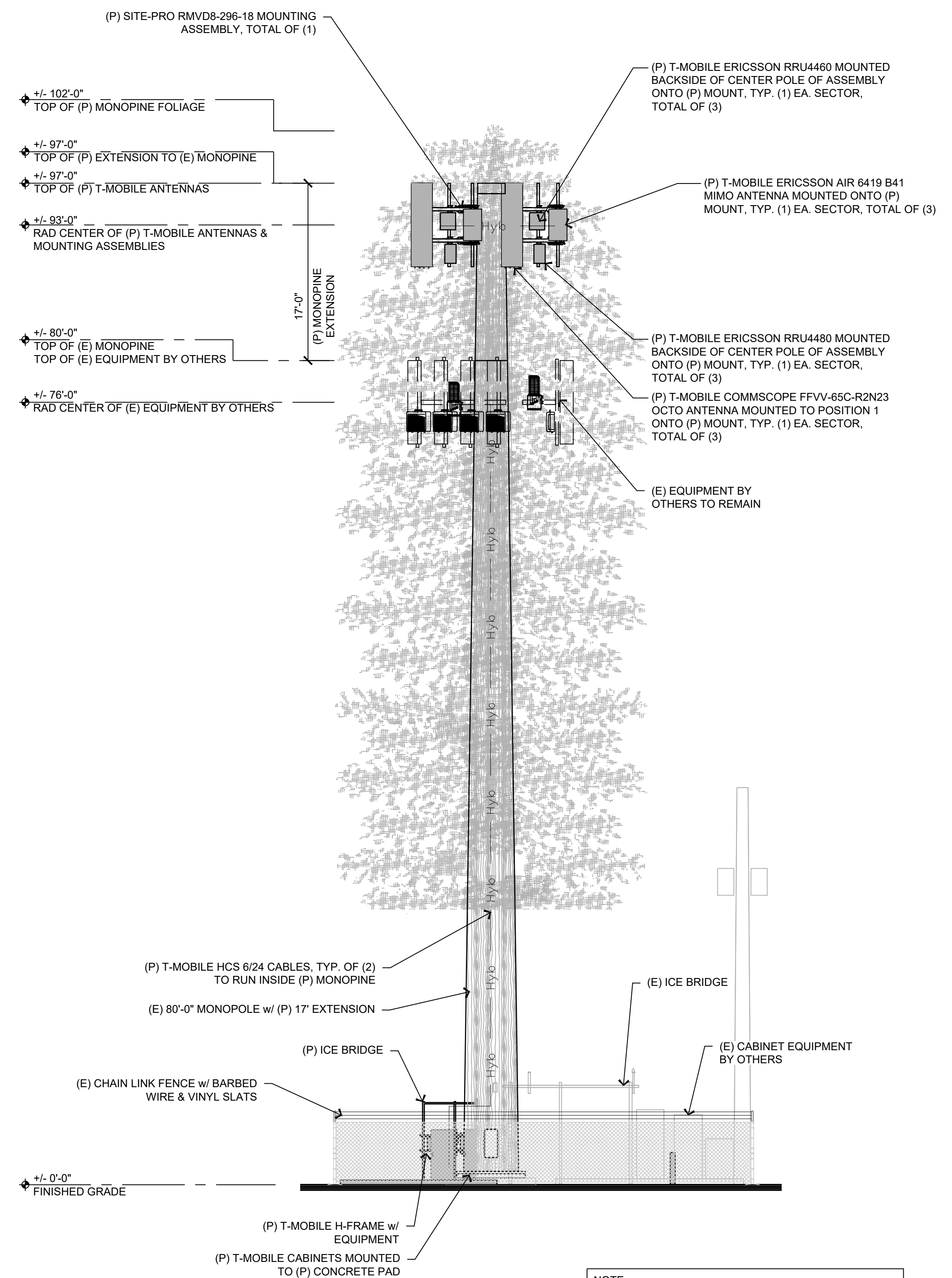
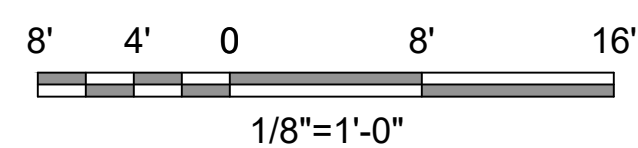
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SHEET NUMBER:
A-3.1

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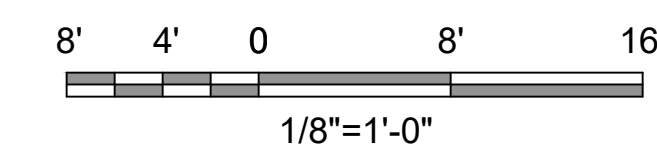


13 EXISTING NORTH ELEVATION
1/8" = 1'-0"



5 PROPOSED NORTH ELEVATION
1/8" = 1'-0"

NOTE:
 1. ALL ANTENNAS TO BE COVERED WITH RF-FRIENDLY EQUIPMENT SOCKS, SAME COLOR AS MONOPINE FOLIAGE
 2. MONOPINE EQUIPMENT IS SHOWN FOR CLARITY OF SUBMITTAL - TO BE COMPLETELY SCREENED BY FOLIAGE IN FIELD
 3. GROUND EQUIPMENT IS SHOWN FOR CLARITY OF SUBMITTAL - HIDDEN BEHIND PRIVACY SLATS



PLANS PREPARED FOR:



1200 CONCORD AVE., SUITE 500
 CONCORD, CA 94520

PLANS PREPARED BY:



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100% CD (R3)	03/12/25	JVM	4
100% CD (R4)	04/03/25	JVM	5
100% CD (R5)	09/10/25	LE	6

SITE NAME:

Grass Valley North

SITE IDENTIFICATION:

SC09622B

SITE ADDRESS:

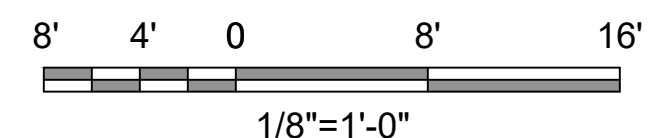
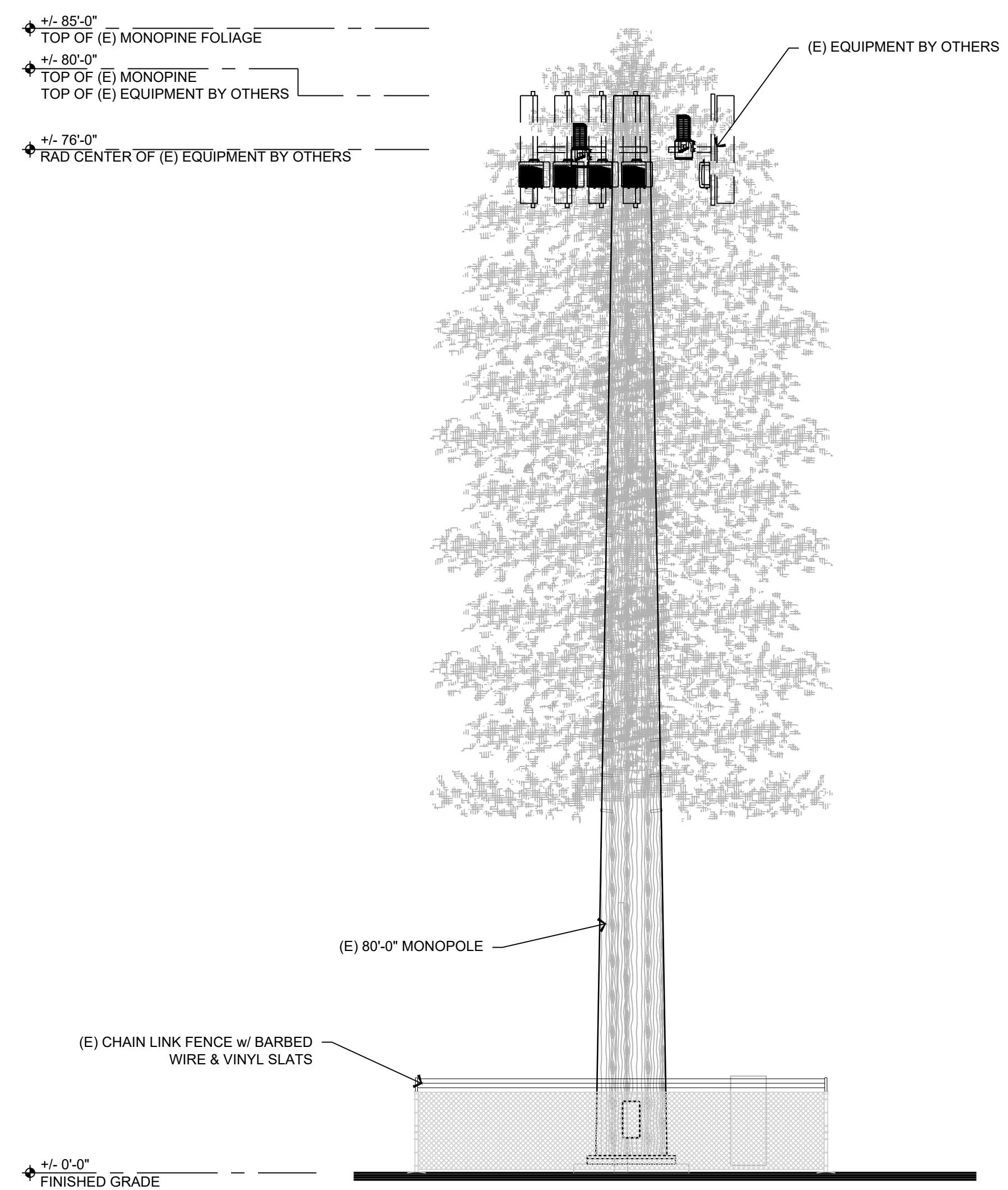
142 OLYMPIA PARK RD
 GRASS VALLEY, CA 95945

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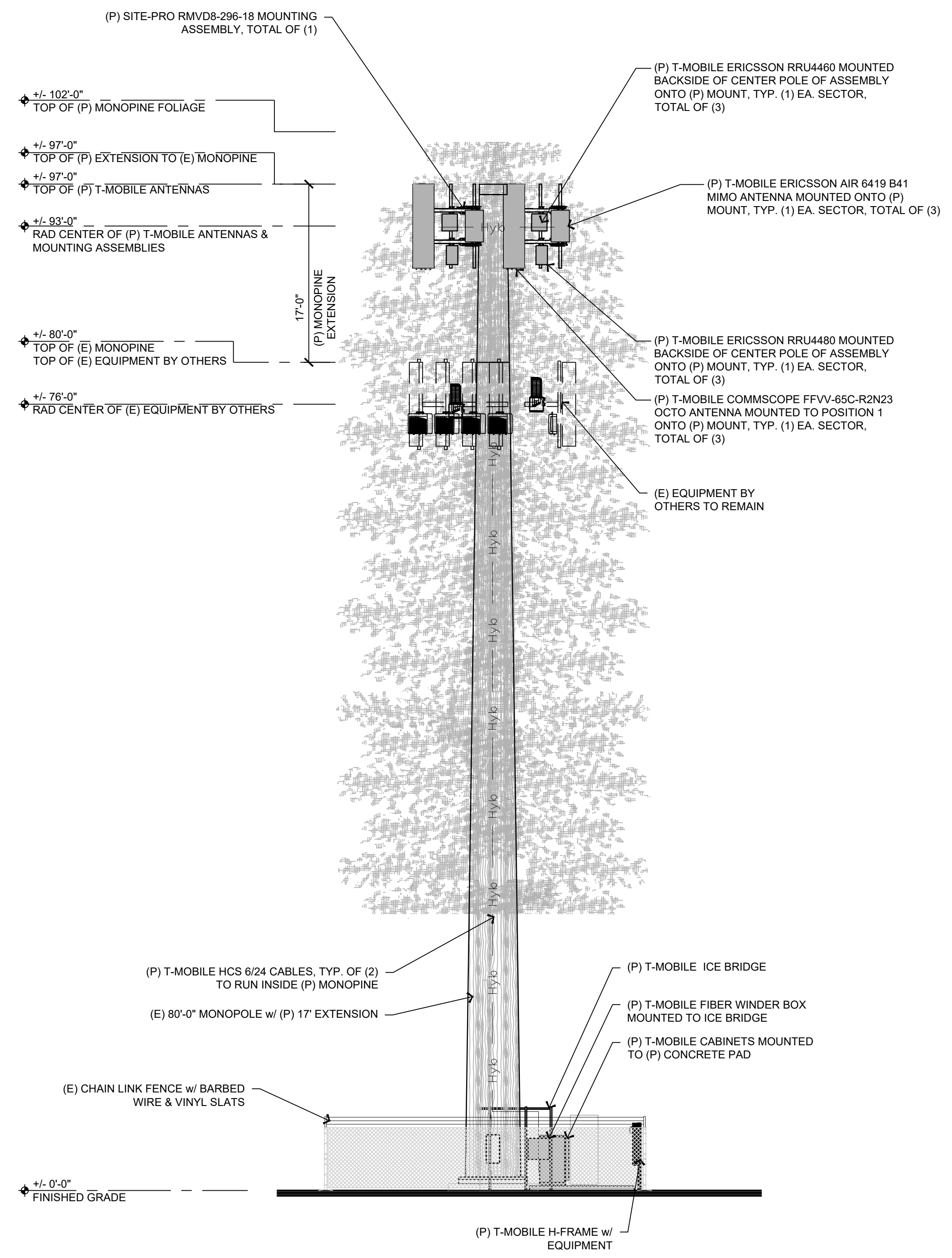
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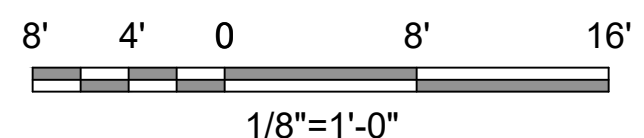
A-3.2



5 EXISTING EAST ELEVATION
1/8" = 1'-0"



NOTE:
 1. ALL ANTENNAS TO BE COVERED WITH RF-FRIENDLY EQUIPMENT SOCKS, SAME COLOR AS MONOPIPE FOLIAGE
 2. MONOPIPE EQUIPMENT IS SHOWN FOR CLARITY OF SUBMITTAL - TO BE COMPLETELY SCREENED BY FOLIAGE IN FIELD
 3. GROUND EQUIPMENT IS SHOWN FOR CLARITY OF SUBMITTAL - HIDDEN BEHIND PRIVACY SLATS



13 PROPOSED EAST ELEVATION
1/8" = 1'-0"

PLANS PREPARED FOR:



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PLANS PREPARED BY:



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100% CD (R4)	04/03/25	JVM	5
100% CD (R5)	09/10/25	LE	6

SITE NAME:

Grass Valley North

SITE IDENTIFICATION:

SC09622B

SITE ADDRESS:

142 OLYMPIA PARK RD
GRASS VALLEY, CA 95945

SHEET DESCRIPTION:

EXTERIOR ELEVATIONS

SHEET NUMBER:

A-3.3

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 Plot Date: 01/02/2025 3:56:50 PM



The NSB RED Battery® delivers long life for reliable and unreliable grid conditions.

- Pure lead AGM technology delivers long float life for telecom applications even at elevated temperatures
- 15 year float life at 20 °C (68°F)
- EUROBAT design life definition: Very Long Life (12+ years)
- High energy density
- Operating temperature range: -40°C to +65°C (-40°F to 149°F)
- State-of-the-art automated manufacturing ensures consistency and reliability
- Advanced 3 stage terminal design to ensure leak-free operation - female M8 brass terminals provide maximum performance
- 2 year shelf life at 25 °C (77°F)
- High modulus Polyphenylene Oxide (PPO) plastic materials designed to withstand extended elevated operating temperatures and maintain high battery compression essential for reliable operation
- Non-halogenated, thermally sealed plastic casing
- Flame retardant (UL 94 V0) and LOI of at least 28%
- Integral handles and front access terminals ensure ease of installation and maintenance
- Approved as non-hazardous cargo for ground, sea, and air transport - DOT 49CFR173.159(d), (i) and (ii)

Release date: 2017-10-06

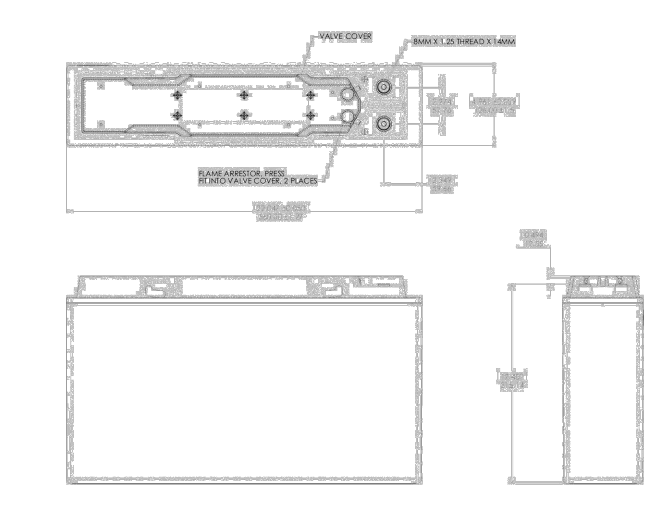


NSB 210FT RED Nominal Technical Specifications

Dimensions	
Height	12.9 in
Width	4.96 in
Length	22 in
Weight	132 lbs

Electrical	
Terminal	Female M8 x 1.25
Terminal torque	8.0 Nm (7.1 in-lbs)
1 hr capacity to 1.70VPC @ 20/25°C (68/77°F)	142 / 148 Ah
3 hr capacity to 1.75VPC @ 20/25°C (68/77°F)	177 / 182 Ah
8 hr capacity to 1.75VPC @ 20/25°C (68/77°F)	200 / 204 Ah
10 hr capacity to 1.80VPC @ 20/25°C (68/77°F)	204 / 207 Ah
Float voltage @ 20/25°C (68/77°F)	2.28 / 2.27 VPC
Impedance (1kHz)	2.9 mΩ @ 25°C (77°F)
Conductance	1920 S
Short circuit current	5400 A
Operation temperature range	-40°C to +65°C (-40°F to 149°F)
Nominal voltage	12 V

Technical Drawing



All NorthStar batteries are compliant with Telcordia SR4228, IEC 60956, Bellcore GR-63-Core, Issue 1; British, German, and Russian telecom standards; UL approved and UN2800 certified. NorthStar is registered to ISO 9001 and ISO 14001.

- NorthStar Americas PARTIAL**
NorthStar Battery Company LLC
4900 Commerce Way
Springfield, MO, 65803, USA
info@northstarbattery.com
Tel: +1 417 576 8200
Fax: +1 417 576 8200
- NorthStar Europe**
StarTel Sweden AB
Hälsjöbjörnsgränd
SE-164 40 Våstra
Sjöviken, Sweden
europa@northstarbattery.com
Tel: +46 8 68 08 000
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- NorthStar Middle-East, Africa**
NorthStar Battery DMCC
Office: 7th, Saeed Tower
Jumeirah Lake Towers, Dubai
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Tel: +971 4 423 8060
Fax: +971 4 423 8061
- NorthStar Asia Pacific**
NS Asia Pacific Sdn Bhd
82, 3th, 3th, Sgari Utama
No. 1, Jalan Duta, 50480
Kuala Lumpur, Malaysia
asia@northstarbattery.com
Tel: +60 3 419 9711

Release date: 2017-10-06

CHAPTER 12, SECTION 1206: STATIONARY STORAGE BATTERY SYSTEMS HAVING CAPACITIES EXCEEDING THE VALUES SHOWN IN TABLE 1206.2 SHALL COMPLY w/ SECTION 1206.2.1 THROUGH 1206.2 -12.6 AS APPLICABLE

CFC CHAPTER 12 SECTION 1206 COMPLIANCE					
BATTERY INFORMATION					
ALL TYPE BATTERY CAPACITY DATA - 12V MONOBLOCKS, BATTERY CAPACITY ALLOWED = 70kWh (252 MEGAJOULES)					
BATTERY MODEL	TOTAL # OF BATTERY UNITS INSTALLED	TOTAL NOMINAL VOLTAGE	RATED CAPACITY (10 HOUR RATE)	kWh OF SINGLE BATTERY	(RATED CAPACITY) x (NOMINAL VOLTAGE) / 1000
AH = VOLTAGE (AH)/1000					
NSB 210FT (B160 CAB)	12	12 V	210 Ah	2.52kWh	$\frac{210Ah \times 12V}{1000}$
ERICSSON B160 CABINET BATTERY TOTAL		30.24kWh = 12 UNITS x 2.52kWh / UNIT (30.24 < 70 kWh - SECTION NOT APPLICABLE)			
TOTAL BATTERY WEIGHT (12 BATTERIES) = 1,699.2 lbs		TOTAL ELECTROLYTE GALLONS (12 BATTERIES) = 30.6 GALLONS			

ELECTRICAL DATA		
BATTERY MODEL: NSB 210FT RED	SHORT CIRCUIT CURRENT: 5400 A	INTERNAL RESISTANCE (mOhms): 2.8mΩ @ 25° C (77°F)

CFC SECTION 1208 BATTERY REQUIREMENTS					
REQUIREMENT	NONRECOMBINANT BATTERIES		RECOMBINANT BATTERIES	OTHER BATTERIES	
	VENTED (FLOODED) LEAD ACID BATTERIES	VENTED (FLOODED) NICKEL-CADMIUM (Ni-Cd) BATTERIES	VALVE REGULATED LEAD-ACID (VRLA) BATTERIES	LITHIUM-ION CELLS	LITHIUM METAL CELLS
SAFETY CAPS	FLAME-ARRESTING CAPS (608.4.6)	FLAME-ARRESTING CAPS (608.4.6)	NOT REQUIRED	NO CAPS	NO CAPS
THERMAL RUNAWAY MANAGEMENT	REQUIRED (608.6.1)	REQUIRED (608.6.1)	REQUIRED (608.4.7)	NOT REQUIRED	NOT REQUIRED
SPILL CONTROL	REQUIRED (608.5.5)	REQUIRED (608.5.5)	REQUIRED (608.5.5)	REQUIRED (608.5.5)	REQUIRED (608.5.5)
NEUTRALIZATION	REQUIRED (608.5.5)	REQUIRED (608.5.5)	REQUIRED (608.5.5)	REQUIRED (608.5.5)	REQUIRED (608.5.5)
VENTILATION	REQUIRED (608.6.1)	REQUIRED (608.6.2)	REQUIRED (608.6.1)	NOT REQUIRED	REQUIRED (608.6.6)
SIGNAGE	REQUIRED (608.2.6)	REQUIRED (608.2.6)	REQUIRED (608.2.6)	REQUIRED (608.2.6)	REQUIRED (608.2.6)
SEISMIC PROTECTION	REQUIRED (608.1.4)	REQUIRED (608.1.4)	REQUIRED (608.1.4)	REQUIRED (608.1.4)	REQUIRED (608.1.4)
SMOKE DETECTION	REQUIRED (608.5.2)	REQUIRED (608.5.2)	REQUIRED (608.5.2)	REQUIRED (608.5.2)	REQUIRED (608.5.2)

5 BATTERY DATA CHART
NOT TO SCALE

PLANS PREPARED FOR:
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CONCORD, CA 94520

PLANS PREPARED BY:
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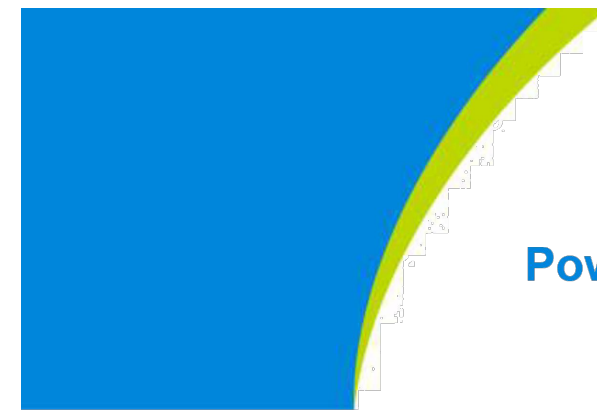
SITE NAME:
Grass Valley North

SITE IDENTIFICATION:
SC09622B

SITE ADDRESS:
142 OLYMPIA PARK RD
GRASS VALLEY, CA 95945

SHEET DESCRIPTION:
BATTERY TABLE, SPECS & DETAILS

SHEET NUMBER:
A-6



Power Pedestal Cabinet

Description

Delta Power Pedestal Cabinets integrate service disconnect switch, transfer switch, load center, surge suppression and a Telco compartment in a compact product offering.

Power Pedestal Cabinet features

- Single wall Aluminum enclosure
- Powder coated finish
- Pad lockable 3-point door latch
- Type 3R & IP55 rated
- Metal oxide varistor surge protection
- Universal generator connections

Applications

- Telecom Outside Plant



Technical specifications

Cabinet:

- UL 50
- Type 3R, Aluminum Construction
- Powder coated Finish
- Pad Lockable, Three point door latch
- Dimensions: 40H x 20W x 10D inches

AC Section:

- UL 891 Dead Front Switchboard Listed
- Suitable for Use as Service Equipment
- N-G Bonding kit included
- Voltage: 240/120 Single Phase Three Wire and Ground
- Current: 200 Amp
- AIC Rating: Utility 65,000 Amps, Panel: 10,000 Amps
- Generator Interface: Pantrol Paneloc™ (Left Mount)
- Service Disconnect: Square D 200 Amp
- Manual Transfer Switch
- Load Center: Square D 200 Amp, IQO Series, 24 Position
- Surge Protection Device (SPD) - 1 ea. AC Data 2050
- Square D 30 Amp, 2-Pole Breaker for SPD
- Ground Bar
- Silkscreened Dead-Front
- Captive Dead-Front Fasteners
- Dimensions: 40H x 20W x 10D inches

Estimated Total Assembled Product Weight:

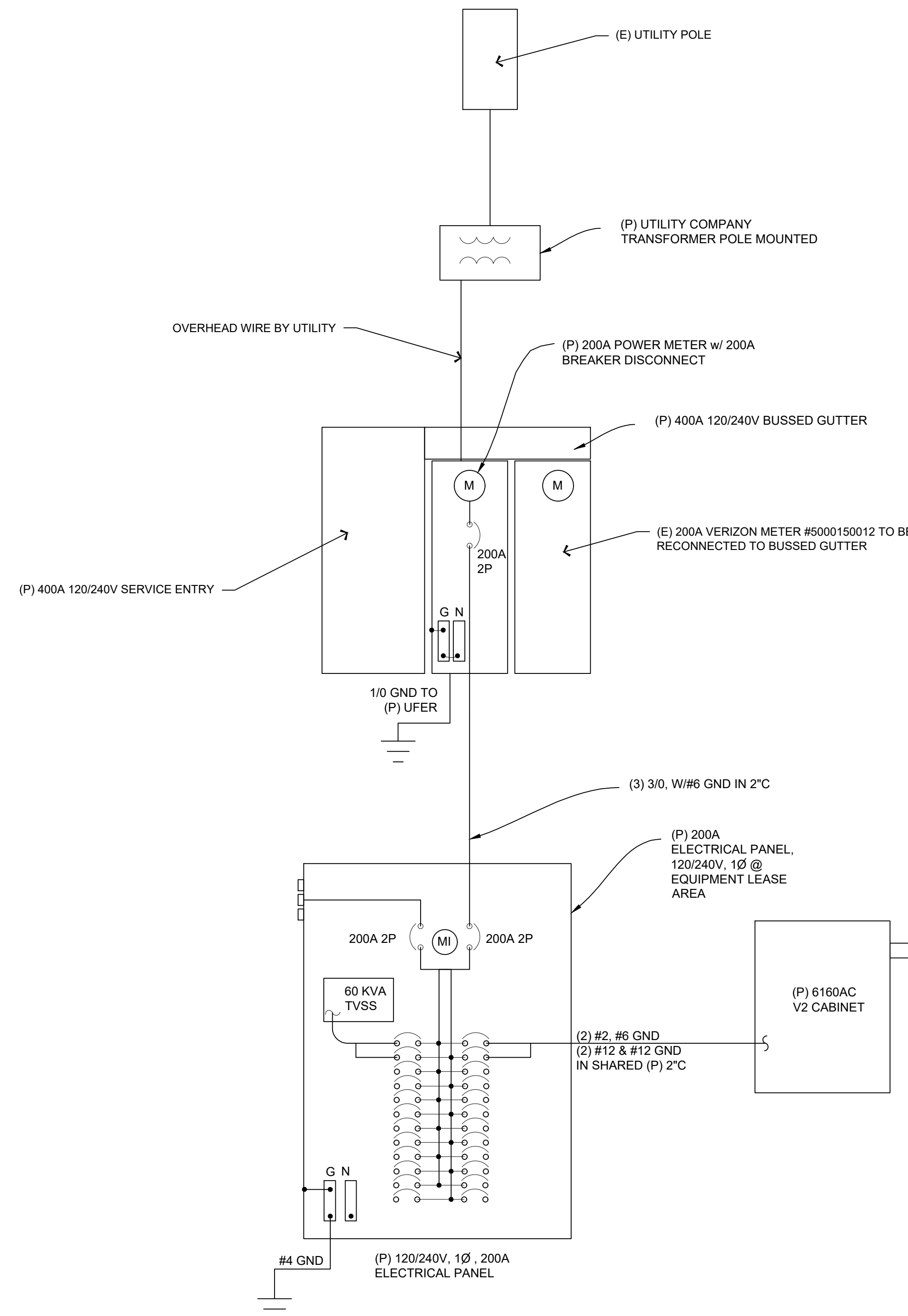
- Approximately 75 Pounds excluding packaging



Delta Greenleaf (USA) Corp
2300 Campbell Court Blvd., Suite 530
Riverside, CA 92502
Phone: 972-437-7800

www.deltapowersolutions.com

Fac_Sheet_PPC_en_06252013.002 / Rev. 01



ELECTRIC LEGEND

- (MI) MECHANICAL INTERLINK
- (M) METER
- CIRCUIT BREAKER
- ⊥ SERVICE GROUND
- WIRED CONNECTION
- ⊕ TIMER SWITCH, WATERPROOF
- OUTDOOR LIGHT
- ⊕ GFI OUTLET, WATERPROOF

ELECTRICAL LABELING REQUIREMENTS

- CONTRACTOR SHALL LABEL ALL ELECTRICAL DEVICES INSTALLED OR ALTERED PURSUANT TO THIS CONTRACT PER THE FOLLOWING. LABELS SHALL BE PERMANENT BLACK ON WHITE PEEL & STICK LABEL MAKER TYPE FOR ALL SWITCH & OUTLET PLATES, CONDUITS AND CEILING FIXTURES, AND SHALL BE PHENOLIC TAG TYPE FOR PANELS, XFMR's, PULL BOXES, ETC. PHENOLIC TAGS SHALL BE RED IN COLOR WHERE BACKED UP BY GENERATOR.
- ALL PANELS, XFMR's AND PULL BOXES SHALL BE LABELED WITH DEVICE 'NAME', VOLTAGE(S), RATING FOR XFMR's, AND 'FED FROM' DATA.
- ALL SWITCH & OUTLET PLATES SHALL BE LABELED WITH 'FED FROM' CIRCUIT DATA (PANEL NAME & CIRCUIT#); ALL GANG SWITCHES SHALL BEAR SWITCH NUMBERS BEGINNING w/ #1 ON LEFT OF THE MAIN LIGHTING SWITCH FOR EACH ROOM FOR COORDINATION w/ FIXTURE LABELS.
- ALL (P) OR RETROFITTED LIGHTING FIXTURES SHALL BE LABELED WITH THE 'FED FROM' DATA (SWITCH#)
- ALL CONDUITS EXISTING A PANEL BOARD SHALL BE LABELED "CIRCUIT(S) 'X'..." WHERE X IS/ARE THE BREAKER(S). CONDUITS EXISTING XFMR's SHALL BE LABELED "FEEDER TO <PANEL, DEVICE>". E.G. "FEEDER TO PANEL <panel name>". CONDUITS ENTERING/EXITING A ROOM OR FLOOR SHALL BE LABELED AT THE ENTRY & EXIT (OR IN A SINGLE LOCATION IF OBVIOUS) w/ "FED FROM..." & "TO PANEL/XFMR..." DATA.
- "FED FROM: DATA = <panel name>
 EG: "PANEL X/1, 3, 5"

ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE 2019 CEC AS WELL AS ALL ADOPTED STANDARDS, APPLICABLE STATE AND LOCAL CODES.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, AN PERFORM ALL TRENCHING AND BACKFILLING REQUIRED IN THE PLANS.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER PLAN SPECIFICATIONS.
- ALL CIRCUIT BREAKERS, FUSES, AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTION RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED WITH A MINIMUM OF 10,000 A.I.C. OR AS REQUIRED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
- ELECTRICAL WIRING SHALL BE COPPER #12 AWG MIN WITH TYPE THHN, THWN-2 OR THW-W, INSULATION RATED FOR 90C OR 70C WET.
- ALL OUTDOOR EQUIPMENT SHALL HAVE NEMA 3R ENCLOSURE.
- ALL BURIED WIRE SHALL RUN THROUGH SCHEDULE 40 PVC CONDUIT UNLESS OTHERWISE NOTED.
- A GROUND WIRE IS TO BE PULLED IN ALL CONDUITS.
- WHERE ELECTRICAL WIRING OCCURS OUTSIDE A STRUCTURE AND HAS THE POTENTIAL FOR EXPOSURE TO WEATHER, WIRING SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL OR FLEXIBLE CONDUIT.
- WHERE PLANS CALL FOR A NEW ELECTRICAL SERVICE, PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VERIFY PLAN DETAILS WITH THE UTILITY'S SERVICE PLAN & REQUIREMENTS AND SHALL OBTAIN CLARIFICATION FROM THE PROJECT ENGINEER ON ANY DEVIATIONS FOUND IN THESE PLANS.
- WHERE THESE PLANS SHOW A DC POWER PLANT, THE INSTALLATION OPERATING AT LESS THAN 50 VDC UNDERGROUNDED, 2-WIRE, SHALL COMPLY WITH ARTICLE 720, AS FOLLOWS:

POWER PLAN SHALL BE SUPPLIED BY THE WIRELESS CARRIER AS A PULL-TAG ITEM AND INSTALLED BY THE CONTRACTOR. CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG COPPER MIN. CONDUCTORS FOR BRANCH CIRCUITS SUPPLYING MORE THAN ONE APPLIANCE SHALL BE 10 AWG CU MIN.; CONTRACTOR SHALL SIZE CONDUCTORS BASED ON MFG'R'S DATA FOR THE APPLIANCES SERVED.

THERE ARE NO DC RECEPTACLES OR LUMINARIES ALLOWED ON THIS PROJECT. ALL CIRCUITS SHALL ORIGINATE AT AN INTEGRATED DOUBLE LUG TAP OR SOCKET TERMINATION ON AN INTEGRATED DC CIRCUIT BREAKER AT AN INDIVIDUAL RECTIFIER MODULE AND TERMINATE AT THE SPECIALIZED LUG, ON THE RESPECTIVE APPLIANCE AS A SINGLE RUN OF WIRE WITHOUT SPICES. ALL DC WIRING SHALL BE LABELED AT THE DC PLANT WITH THE APPLIANCE SERVED AND THE DC VOLTAGE. ALL CABLING SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND SUPPORTED BY BUILDING STRUCTURE, EG. (P) CABLE TRAY OVERHEAD IN SUCH A MANNER THAT THE CABLE WILL BE DAMAGED BY NORMAL USE.

(P) 200A ELECTRICAL PANEL

NAMEPLATE: PANEL A		SC LEVEL: 65,000		VOLTAGE: 120/240 V, 1 PHASE, 3 WIRE		
LOCATION: H-FRAME AT EQUIPMENT		BUS: 200 AMPS		MAIN CB: 200A		
MOUNTING: UTILITY H-FRAME						
ØA	ØB	BREAKER AMP / POLE	CIRCUIT NO.	BREAKER AMP / POLE	ØA	ØB
2640		20/1	1 2	125/2	E6160 V2 CABINET	6500
	2292	20/1	3 4		BLANK	6500
			5 6			
			7 8			
			9 10			
			11 12			
			13 14			
			15 16			
			17 18			
			19 20			
			21 22			
			23 24			
2640	2292	PHASE TOTALS		PHASE TOTALS		6500 6500
TOTAL VA =	17932 (17.93 KVA)	TOTAL AMPS =				41

PLANS PREPARED FOR:

1200 CONCORD AVE., SUITE 500
CONCORD, CA 94520

PLANS PREPARED BY:

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916.782.7200 / www.borgesarch.com

OEM:

MLA PARTNER:

5098 FOOTHILLS BLVD, STE 3-119
ROSEVILLE, CA 95747

ENGINEERING SEAL:

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REVISIONS:

DESCRIPTION	DATE	BY	REV
90% CD SUBMITTAL	12/19/23	JVM	0
100% CD SUBMITTAL	02/23/24	JVM	1
100% CD (R1)	07/09/24	JVM	2
100% CD (R2)	08/30/24	JVM	3
100% CD (R3)	03/12/25	JVM	4
100% CD (R4)	04/03/25	JVM	5
100% CD (R5)	09/10/25	LE	6

SITE NAME:

Grass Valley North

SITE IDENTIFICATION:

SC09622B

SITE ADDRESS:

142 OLYMPIA PARK RD
GRASS VALLEY, CA 95945

SHEET DESCRIPTION:

ELEC SINGLE LINE,
PANEL SCHEDULE,
SPECS

SHEET NUMBER:

E-1

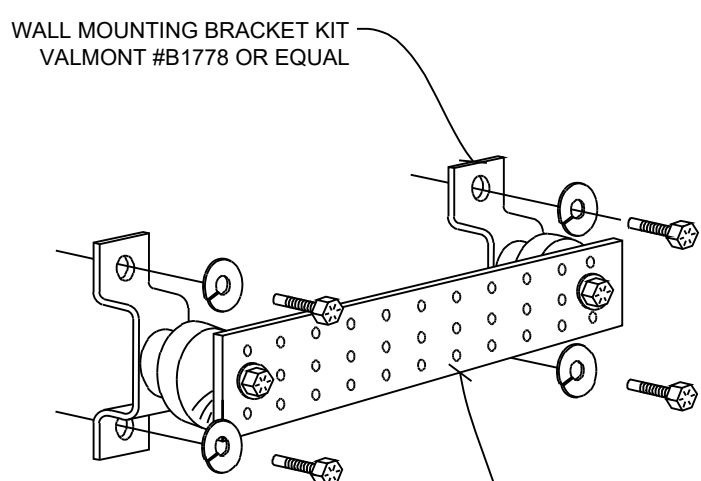
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GROUNDING NOTES

- GROUNDING SHALL COMPLY WITH CEC ARTICLE 250.
- USE #2 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- EXPOSED GROUNDING CONNECTIONS SHALL BE MADE WITH BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR EXOTHERMIC WELDS AS SPECIFIED IN THE PLANS.
- CONNECTIONS TO EQUIPMENT SHALL BE MADE USING STAINLESS STEEL HARDWARE.
- APPLY BUTYL & ELECTRICAL TAPE OVER COLD SHRINK AT ALL LOCATIONS FOR WEATHER PROOFING OVER COAX GROUND KITS.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS WITH STAR WASHERS AND NO-OX OR EQUIVALENT PLACED BETWEEN CONNECTOR AND GROUND BAR.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLES. ALWAYS MAKE A 12" RADIUS BEND, HOWEVER, #6 WIRE CAN BE BENT AT A 6" RADIUS WHEN NECESSARY.
- THE SYSTEM GROUND RESISTANCE MUST BE 10 OHMS OR LESS. TO ACHIEVE THIS LEVEL OF RESISTANCE THE CONTRACTOR SHALL PURSUE ONE OF THE FOLLOWING THREE OPTIONS:

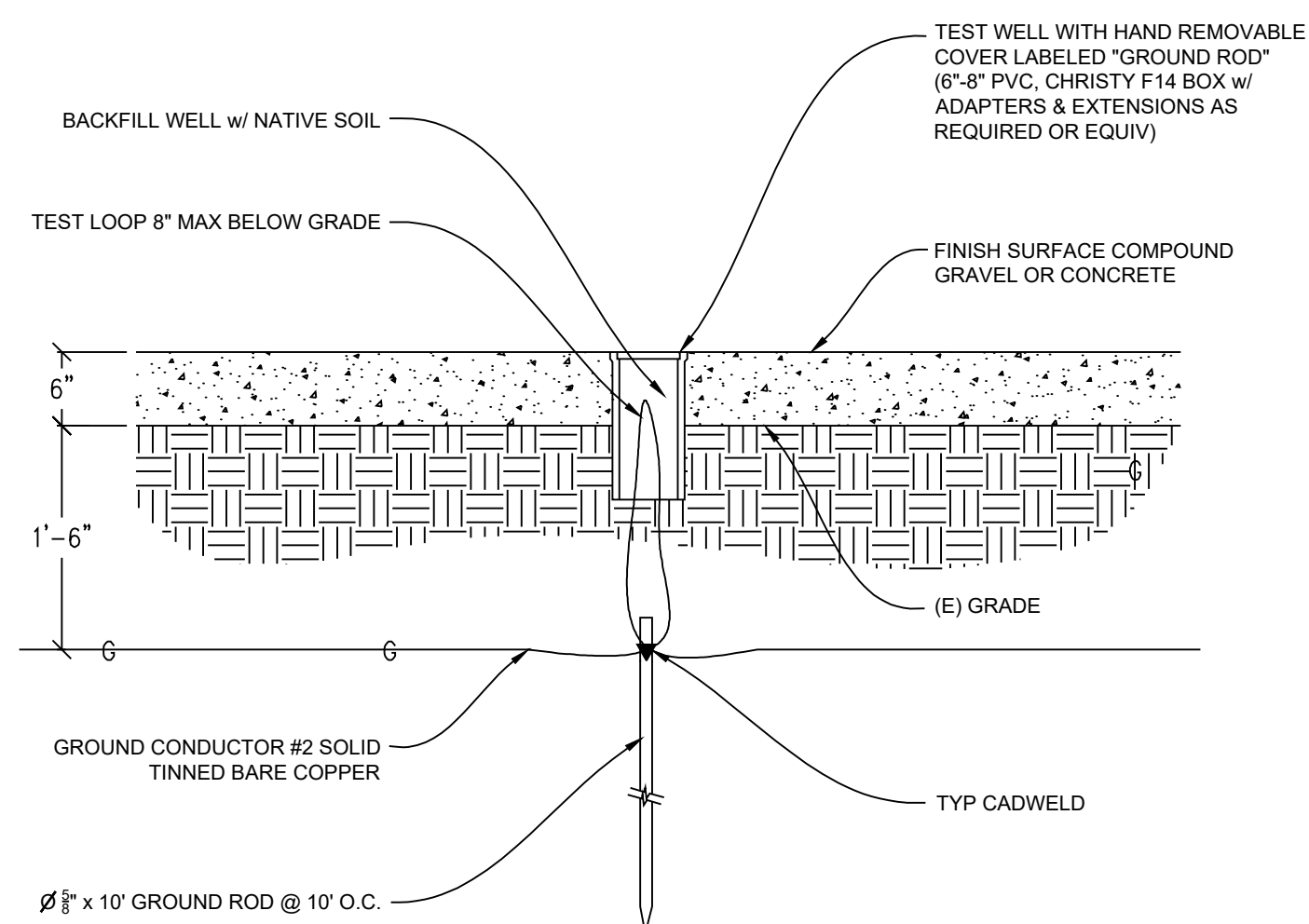
- CONNECT TO EXISTING GROUNDING SYSTEMS
- CONNECT TO BUILDING STEEL COLUMNS
- INSTALL A NEW GROUNDING SYSTEM

UPON COMPLETION OF THE GROUNDING INSTALLATION THE CONTRACTOR SHALL EMPLOY AN OWNER APPROVED 3RD PARTY TO CONDUCT A "FALL OF POTENTIAL" TEST AND SUBMIT A REPORT OF SUCH TEST FOR APPROVAL TO EITHER THE OWNER OR CONSTRUCTION MANAGER.



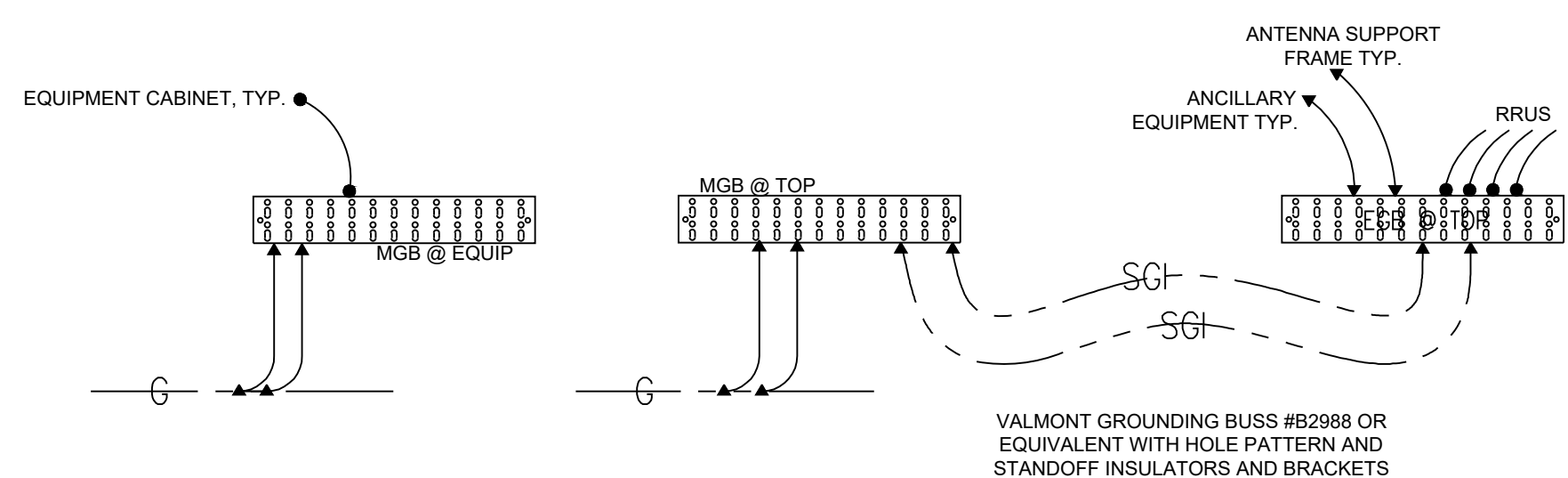
COPPER GROUND BUSS $\frac{1}{2}$ " x 4" x 24" VALMONT #B2988 OR EQUAL. HOLE CENTER TO MATCH NEMA DOUBLE LUG CONFIGURATION (ACTUAL GROUND BUSS SIZES WILL VARY BASED ON THE NUMBER OF GROUND CONNECTIONS)

GROUND BUSS DETAIL



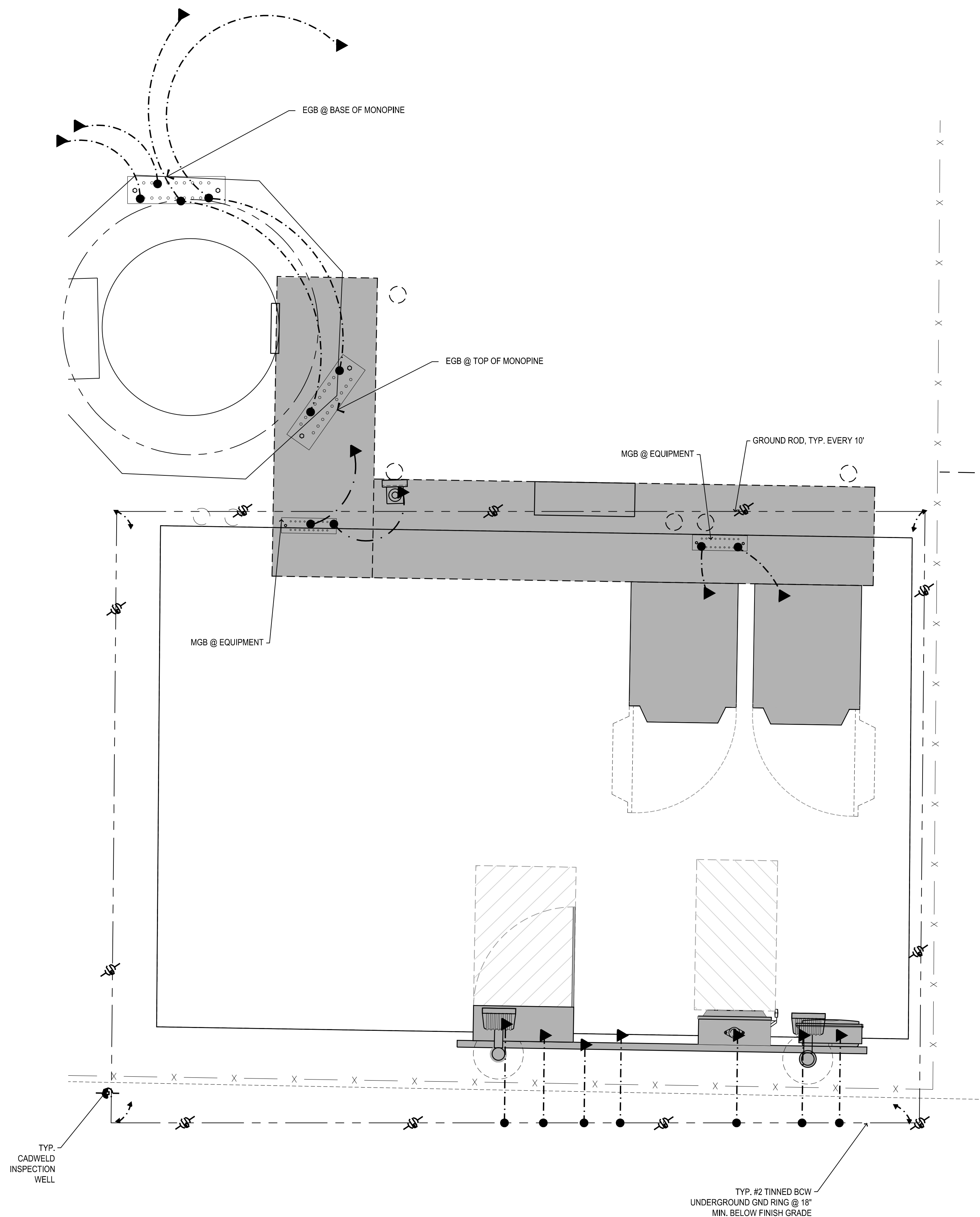
TEST WELL DETAIL

NOTE: THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN RODS. THE GROUND RODS SHALL BE $\frac{1}{2}$ " x 10" COPPER CLAD STEEL SPACED AT 10' INTERVALS MAX. RODS SHALL BE INTERCONNECTED WITH #2 SOLID TINNED BARE COPPER GROUND WIRE BURIED A MINIMUM 18" BELOW GRADE. AN ONSITE INSPECTION BY THE OWNER SHALL BE REQUIRED PRIOR TO ANY BACKFILL.



ELECTRICAL GROUNDING PLAN

- GROUNDING LEGEND**
- MECHANICAL CONNECTION
 - ▲ EXOTHERMIC CADWELD
 - TYP. CADWELD INSPECTION WELL
 - TYP. $\frac{1}{2}$ " DIA. x 10'-0" LONG COPPER CLAD GROUND ROD @ 10' O.C. MAX & 18" MIN. BELOW FINISH GRADE
 - GATE GROUNDING STRAP
 - TYP. #2 TINNED BCW UNDERGROUND GND RING @ 18" MIN BELOW FINISH GRADE
 - SGI — GROUND WIRE #2 STRANDED GREEN INSULATED WIRE



1 GROUNDING PLAN
3/4" = 1'-0"

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GROUNDING PLAN & DETAILS

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