AT&T

NOTE:
ALL EQUIPMENT SHALL BE PAINTED BEIGE.

NOTE:
PROPOSED FAUX WATER TANK IS A COLLOCATION-ELIGIBLE FACILITY.

RFID#: 4961407
USID #: 315565
FA #: 14226177
5G NR 1SR CBAND
PTN#: 3701A17444
PACE#: MRSFR098445
LTE1C CELL SITE
REPLACEMENT
PTN#: 3701A0DNV5
PACE#: MRSFR044517
LTE 5C
PTN#: 3701A0MCSA
PACE#: MRSFR058521
LTE 2C
PTN#: 3701A0MD9G
PACE#: MRSFR058518
LTE 3C
PTN#: 3701A0MCTA
PACE#: MRSFR058519
LTE 4C
PTN#: 3701A0MD9Q
PACE#: MRSFR058485

SITE NUMBER: CCL04383
SITE NAME: 5707 HIGHLAND ROAD
SITE TYPE: FAUX WATER TANK / CWIC SHELTER
ADDRESS: 5707 HIGHLAND ROAD SAN RAMON, CA 94583

SHEET INDEX

PROJECT TEAM

APPLICANT / LESSEE:

AT&T MOBILITY
5001 EXECUTIVE PARKWAY, 4W550E
SAN RAMON, CA 94583
CONTACT: TAYIIKA (TY) LOGAN-BURKS
EMAIL: TL784A@ATT.COM
PH: 925.549.4671

RFDS VERSION: 6.0
DATE CREATED: 01/19/22
DATE UPDATED: 07/02/24

CONSTRUCTION MANAGER:

CONTACT: SEAN WATSON
FIELD COORDINATOR
EMAIL: SWATSON5@BECHTEL.COM
PH: (925) 594-9070

PROJECT MANAGER:

CENTERLINE COMMUNICATIONS
CONTACT: ALLYSON POE
EMAIL: APOE@CLINELLC.COM
CELL: (772) 713-6229

RF ENGINEER:

AT&T MOBILITY
CONTACT: EDWIN AVILES
EMAIL: EA5477@ATT.COM
PH: (909) 997-9917

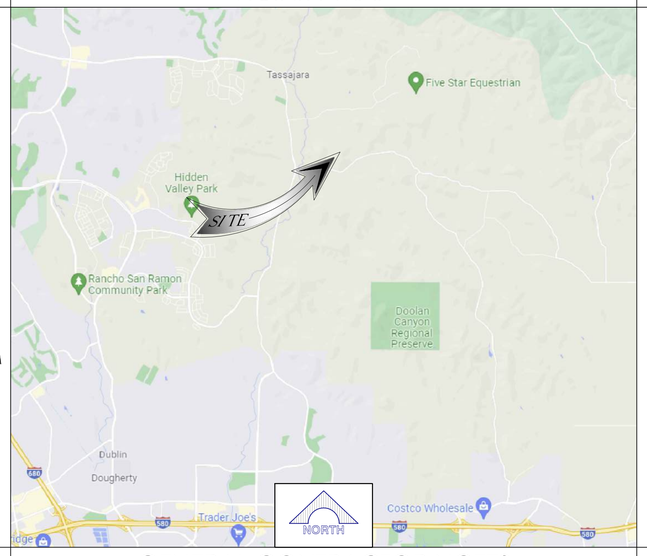
A&E MANAGER:

CENTERLINE COMMUNICATIONS
contact: STEVEN M. RAMON
EMAIL: SRAMON@CLINELLC.COM
PH: (562) 846-5556

LEASING:

CENTERLINE COMMUNICATIONS
CONTACT: STEPHANIE VICK
EMAIL: SVICK@CLINELLC.COM
PHONE: (858) 774-5191

VICINITY MAP



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.

1. CALIFORNIA BUILDING STANDARDS CODE: 2022 TRIENNIAL EDITION OF TITLE 24, WITH AN EFFECTIVE DATE OF JANUARY 1, 2023.
   PART 1 - CALIFORNIA ADMINISTRATIVE CODE
   PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2021 INTERNATIONAL BUILDING CODE
   PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2021 INTERNATIONAL RESIDENTIAL CODE
   PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2020 NATIONAL ELECTRICAL CODE
   PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2021 UNIFORM MECHANICAL CODE
   PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2021 UNIFORM PLUMBING CODE
   PART 6 - CALIFORNIA ENERGY CODE
   PART 7 - VACANT
   PART 8 - CALIFORNIA HISTORICAL BUILDING CODE
   PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2021 INTERNATIONAL FIRE CODE
   PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2021 INTERNATIONAL EXISTING BUILDING CODE
   PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC; ALSO KNOWN AS CALGREEN)
   PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
2. ANSI/TIA-222 (REV H)
3. 2021 NFPA 101, LIFE SAFETY CODE
4. 2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
5. 2022 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

PROJECT DESCRIPTION

INSTALLATION OF A NEW SITE BUILD, UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE FOLLOWING:

ANTENNA SOW:
- INSTALL (1) 170'-0" TALL FAUX WATER TANK WITH 21'X21' TOWER FOOTING
- INSTALL (6) DMP65R-BU8DA-K PANEL ANTENNAS, TYP. (3) PER SECTOR
- INSTALL (3) AIR6419 B77G ANTENNA, TYP. (1) PER SECTOR
- INSTALL (3) AIR6449 B77D ANTENNA, TYP. (1) PER SECTOR
- INSTALL (3) RRUS 4449 B5/B12, TYP. (1) PER SECTOR
- INSTALL (3) RRUS 8843 B2/B66, TYP. (1) PER SECTOR
- INSTALL (3) RRUS 4478 B14, TYP. (1) PER SECTOR
- INSTALL (3) DC-9 SURGE SUPPRESSORS, TYP. (1) PER SECTOR
- INSTALL (9) NEW #4AWG DC POWER TRUNKS & (3) FIBER TRUNKS TO NEW DC9, APPROX. LENGTH 220'-0"

EQUIPMENT SOW:
- INSTALL(1) PREFABRICATED SHELTER
- INSTALL (1) 4" DIA. WOOD POST 6'-0" HIGH BARBED WIRE FENCE ENCLOSURE AROUND NEW EQUIPMENT AND WATER TANK AND SHALL PROTECT FROM ROAMING CATTLE
- INSTALL (1) GPS ANTENNA
- INSTALL (3) CONCRETE PADS
- INSTALL (1) 200A AC POWER PANEL
- INSTALL (1) CAMLOCK
- INSTALL (1) VERTIV DCPP RACK
- INSTALL (16) RECTIFIERS WITHIN DCPP
- INSTALL (8) 190AH BATTERIES WITHIN DCPP
- INSTALL (2) EQUIPMENT RACKS
- INSTALL (2) 6651 WITHIN RACK
- INSTALL (1) XMU WITHIN RACK
- INSTALL (1) DC50 CABINET MOUNTED ON SHELTER
- INSTALL (1) BACK-UP 30KW GENERATOR WITH UL2085 TANK
- INSTALL (1) STEP UP TRANSFORMER
- INSTALL (1) STEP DOWN TRANSFORMER
- INSTALL (1) CIENA AND HOFFMAN BOX ON H-FRAME
- INSTALL (1) 200A METER WITH TEST BLOCK BYPASS ON H-FRAME
- INSTALL (1) 400A HOT GUTTER WITH SPACE FOR (1) FUTURE METER
- INSTALL (1) VERTIV XTE 201 CABINET ON H-FRAME
- INSTALL (1) 4"Ø U.G. CONDUIT FOR TELCO
- INSTALL (1) 5"Ø U.G. CONDUIT FOR POWER
- INSTALL (4) 4"Ø U.G. CONDUIT FOR DC POWER & FIBER CABLES

SITE INFORMATION

PROPERTY OWNER:
MCELLEY JANET D TRE
5707 HIGHLAND ROAD
SAN RAMON, CA 94583
CONTACT: SHANE MCELLEY
EMAIL: SHANEMCELLEY@GMAIL.COM

POWER AGENCY:
TBD
PH: TBD

TELEPHONE AGENCY:
AT&T

JURISDICTION:	CONTRA COSTA COUNTY
A.P.N.:	205-090-006 & 205-090-007
CURRENT ZONING:	AGRICULTURAL PRESERVE, A20
EXISTING USE:	MULTIUSE
PROPOSED USE:	MULTIUSE, COMMUNICATIONS FACILITY
LATITUDE (NAD 83):	37.780776° 37° 46' 50.79" N
LONGITUDE (NAD 83):	-121.854035° 121° 51' 14.53" W

ACCESSIBILITY REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESSIBILITY IS NOT REQUIRED PER CFC2022, SECTION 1207 (LIMITED ACCESS SPACE)

OCCUPANCY GROUPS:	GROUP S-1
TYPE OF CONSTRUCTION:	V-B
SPRINKLERS:	N/A
STORIES:	N/A
AREA OF WORK (SQ.FT.):	EQUIPMENT AT GRADE: 375 SQ FT.

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS

THESE PLANS ARE FORMATTED TO BE FULL SIZE AT 24" X 36". CONTRACTORS SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE 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.

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.

STATEMENTS

STRUCTURAL ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWINGS SET. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

ANTENNA MOUNT ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWING SET. FOR ANALYSIS OF MOUNT TO SUPPORT EXISTING AND/OR PROPOSED COMPONENTS, REFER TO ANTENNA MOUNT STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

DRIVING DIRECTIONS

FROM: AT&T CORPORATE OFFICES
5005 EXECUTIVE PKWY
SAN RAMON, CA 94583

TO: 5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DIGALERT
800-227-2600
Call 2 Full Working Days In Advance

APPLICANT:
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:
PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:
CCL04383
5707 HIGHLAND ROAD
5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:
REGISTERED PROFESSIONAL ENGINEER ROBERT A. PITZER 81603 CIVIL STATE OF CALIFORNIA
SIGNED: 2024/11/11
EXPIRES: 2025/09/30

SHEET TITLE: T-1

SHEET NAME: TITLE 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

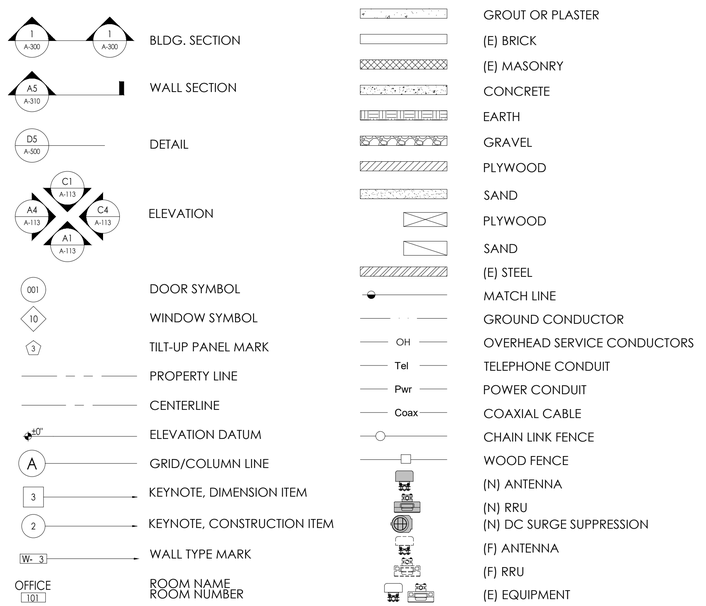
APPLICABLE CODES, REGULATIONS AND STANDARDS:

1. 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.
2. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
3. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
   - 3.1. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   - 3.2. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
   - 3.3. TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
   - 3.4. 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.
   - 3.5. IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
   - 3.6. TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
   - 3.7. EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
   - 3.8. TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
   - 3.9. TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
   - 3.10. TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
   - 3.11. ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
   - 3.12. 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:

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

SYMBOLS LEGEND:



APPLICANT:

AT&T

5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:

CCL04383

5707 HIGHLAND ROAD

5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER — JOSEPH A. MITZEL — 81603 — CIVIL — STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

SHEET TITLE:

GN-1

SHEET NAME:

GENERAL NOTES

COMPLIANCE WITH CFC 2022 SECTION 1207 - OUTDOOR BATTERY SYSTEMS

1207.4 GENERAL INSTALLATIONS REQUIREMENTS

1207.4.1 ELECTRICAL DISCONNECTS:
IN ACCORDANCE WITH SECTION 1207.4.1, THE ESS IS UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS FACILITY AND WILL HAVE ELECTRICAL DISCONNECT SIGNAGE IN ACCORDANCE WITH NFPA 76. SEE EMERGENCY SHUT DOWN AND BACK UP BATTERY DISCONNECT SIGNAGE ON SITE SIGNAGE SHEET IN THIS DRAWING SET.

1207.4.2 WORKING CLEARANCES:
IN ACCORDANCE WITH SECTION 1207.4.2, THE ESS WILL MAINTAIN PROPER WORKING CLEARANCES AS PRESCRIBED BY THE CALIFORNIA ELECTRICAL CODE AND THE MANUFACTURER'S INSTRUCTIONS.

1207.4.4 SEISMIC AND STRUCTURAL DESIGN:
IN ACCORDANCE WITH SECTION 1207.4.4, THE ESS WILL NOT EXCEED THE FLOOR LOADING LIMITATION OF THE BUILDING, REFERENCE PASSING STRUCTURAL ANALYSIS REPORT UNDER SEPARATE COVER.

1207.4.5 VEHICLE IMPACT PROTECTION:
THE ESS CABINETS ARE LOCATED IN AN UNOCCUPIED AND UNMANNED OUTDOOR TELECOMMUNICATIONS FACILITY AND IS NOT SUBJECT TO IMPACT BY VEHICLES. SHOULD THE ESS BE SUBJECT TO POTENTIAL IMPACT BY VEHICLES, IMPACT PROTECTION SHALL BE IN PLACE IN ACCORDANCE WITH SECTION 312.

1207.4.6 COMBUSTIBLE STORAGE:
IN ACCORDANCE WITH SECTION 1207.4.6, NO COMBUSTIBLE MATERIALS WILL BE STORED WITHIN 3' OF THE BATTERY CABINETS.

1207.4.7 TOXIC AND HIGHLY TOXIC GASES:
THE ESS BATTERY CABINET IS LOCATED OUTDOORS AND IS NATURALLY VENTILATED, NO EXHAUST SYSTEM IS REQUIRED.

1207.4.8 SIGNAGE:
IN ACCORDANCE WITH SECTION 1207.4.8, HAZARD SIGNAGE WILL BE PLACED AT THE BATTERY STORAGE SYSTEM INDICATING "DANGER", "LEAD ACID BATTERIES", "CORROSIVE LIQUIDS", ENERGIZED ELECTRICAL CIRCUITS", "NO SMOKING". SEE SITE SIGNAGE SHEET IN THIS DRAWING SET.

1207.4.9 SECURITY OF INSTALLATIONS:
IN ACCORDANCE WITH SECTION 1207.4.9, THE BATTERY CABINETS AND ENCLOSURES WILL BE LOCKED AND SECURED AGAINST UNAUTHORIZED ENTRY.

1207.4.10 OCCUPIED WORK CENTERS:
THE TELECOMMUNICATIONS FACILITY AND IT'S ESS IS UNMANNED AND NOT OCCUPIED BY ANY PERSONNEL OTHER THAN THOSE DIRECTLY INVOLVED IN ITS MAINTENANCE.

1207.4.11 OPEN RACK INSTALLATIONS:
THE TELECOMMUNICATIONS FACILITY/CABINETS ARE LOCKED AND ONLY AUTHORIZED PERSONNEL HAVE ACCESS TO THE FACILITY AND ESS.

1207.4.12 WALK-IN UNITS:
WALK-IN UNITS SHALL BE ENTERED ONLY FOR INSPECTION, MAINTENANCE AND REPAIR OF ESS UNITS AND ANCILLARY EQUIPMENT, AND ARE NOT OCCUPIED FOR ANY OTHER PURPOSES.

1207.8.3 CLEARANCE TO EXPOSURES:
IN ACCORDANCE WITH SECTION 1207.8.3, THE ESS IS IN A WEATHERPROOF ENCLOSURE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS AND IS AT LEAST 10' FROM ANY LOT LINES, PUBLIC WAYS, BUILDINGS, STORED COMBUSTIBLE MATERIALS, HAZARDOUS MATERIALS, HIGH-PILED STOCK, OR OTHER EXPOSURE HAZARDS.

1207.5.5 FIRE SUPPRESSION SYSTEMS
THE ESS IS FOR A LEAD-ACID BATTERY SYSTEMS UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY THAT OPERATE AT LESS THAN 50 VAC AND 60 VDC. ADDITIONALLY, THE ESS IS LOCATED OUTDOORS AND DOES NOT REQUIRE AN AUTOMATIC FIRE SUPPRESSION SYSTEM.

1207.5.5.1WATER-REACTIVE SYSTEMS:
THE ESS IS A VALVE REGULATED LEAD ACID (VRLA) BATTERY SYSTEM THAT DOES NOT UTILIZE WATER-REACTIVE MATERIALS.

1207.5.2 MAXIMUM ALLOWABLE QUANTITIES:
THE ESS IS A VALVE REGULATED LEAD ACID (VRLA) BATTERY SYSTEM AND PER TABLE 1207.5 THE MAXIMUM ALLOWABLE QUANTITY IS "UNLIMITED".

1207.5.8 MEANS OF EGRESS SEPARATION:
IN ACCORDANCE WITH SECTION 1207.5.8, THE ESS IS LOCATED A MINIMUM OF 10' AWAY FROM ANY MEANS OF EGRESS AND DOES NOT OBSTRUCT OR IMPEDE SAFE EGRESS UNDER FIRE CONDITIONS.

1207.5.1 SIZE AND SEPARATION:
PER EXCEPTION 1 IN SECTION 1207.5.1, THE ESS IS A LEAD-ACID BATTERY SYSTEM WHICH IS UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS IN COMPLIANCE WITH NFPA 76.

1207.6.1 EXHAUST VENTILATION:
THE CABINETS CONTAINING BATTERIES ARE OUTDOORS AND MEET VENTILATION REQUIREMENTS. THE ESS IS ALSO UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS UNDER THE 1,000 GALLON THRESHOLD NOTED IN SECTION 1207.6.2.3.

1207.6.2 SPILL CONTROL AND NEUTRALIZATION:
IN COMPLIANCE WITH SECTION 1207.6.2 OF THE 2022 CALIFORNIA FIRE CODE, A SPILL CONTAINMENT SYSTEM KIT WILL BE STORED AT THE LEASE AREA. THE ESS IS ALSO UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS UNDER THE 1,000 GALLON THRESHOLD NOTED IN SECTION 1207.6.2.3.

1207.6.2.1 SPILL CONTROL:
THE ESS IS STORED IN CABINETS WHICH COME EQUIPPED WITH SPILL CONTROL TRAYS WHICH ARE CAPABLE OF CONTAINING MORE THAN THE SINGLE LARGEST BATTERY OR VESSEL STORED IN THE CABINET. THE ESS IS ALSO UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS UNDER THE 1,000 GALLON THRESHOLD NOTED IN SECTION 1207.6.2.3.

1207.6.2.2 NEUTRALIZATION:
SEE RESPONSE FOR SECTION 1207.6.2 ABOVE, A SPILL CONTAINMENT SYSTEM KIT WILL BE STORED AT THE LEASE AREA. THE ESS IS ALSO UNDER THE EXCLUSIVE CONTROL OF A COMMUNICATIONS UTILITY AND IS UNDER THE 1,000 GALLON THRESHOLD NOTED IN SECTION 1207.6.2.3.

1207.6.4 SAFETY CAPS:
IN ACCORDANCE WITH SECTION 1207.6.4, THE PROPOSED BATTERIES SHALL BE EQUIPPED WITH SELF-RESEALING FLAME ARRESTING CAPS.

1207.6.5 THERMAL RUNAWAY:
IN ACCORDANCE WITH SECTION 1207.6.5, THE CABINETS CONTAINING BATTERIES SHALL CONTAIN THERMAL RUNAWAY MANAGEMENT.

1207.5.7 VEGETATION CONTROL:
IN ACCORDANCE WITH SECTION 1207.5.7, THE OUTDOOR ESS SHALL BE CLEARED OF COMBUSTIBLE VEGETATION AREAS WITHIN 10' ON EACH SIDE OF THE OUTDOOR ESS CABINETS. EXCEPTION FOR SINGLE SPECIMENS OF TREES, SHRUBBERY OR CULTIVATED GROUND COVER SUCH AS GREEN GRASS, IVY, SUCCULENTS OR SIMILAR PLANTS USED AS GROUND COVER PROVIDED THAT THEY DO NOT FORM A MEANS OF READILY TRANSMITTING FIRE.

Container	5-Gallon D.O.T.	20-Gallon D.O.T.	Lockable Rolling Cart with Organizers	55-Gallon D.O.T.
ENVIROGUARD Global Compliance Solutions				
Tyvek body coveralls	1	2	2	2
Headgear/face shield	1	2	2	2
Goggles	1	2	2	2
Rubber Gloves	1	2	2	2
pH test Kit	1	1	1	1
Duct Tape	1	1	1	1
Absorbent wipes	10	20	15	20
Hazmat disposal bags	2	2	2	3
Disposable respirator	1	2	2	2
Emergency response guidebook	1	1	1	1
NeutraSorb	5 lbs.	10 lbs.	5 lbs.	(4x) 10 lbs.
Neutralizing & absorbing Pads	3	3	5	6
SOCs		2		7
Scoop		1	1	1
Brush		1 brush	1	1 broom with collapsible handle
pH7			1 qt. bottle	16 oz. bottle.
Squeegee				1 with collapsible handle

Spill Clean-Up Kits | Neutralizing Products | Cabinet Kits

5-Gallon Spill Clean-up Kit

Kit Includes

- 5-Gallon D.O.T. container
- 1 pair of Tyvek body coveralls
- 1 headgear/face shield
- 1 pair of goggles
- 1 pair of rubber gloves
- 1 roll of duct tape, 1 pH test kit
- 3 neutralizing & absorbing pads
- 10 absorbent wipes
- 2 hazmat disposal bags
- 1 disposable respirator
- 1 emergency response guidebook
- 5 lbs. NeutraSorb (acid absorbent & neutralizer)

Part Number

- SCK-5 - Also available for NiCd (SCK-5-K) applications

Regulations In Compliance With

- Fire Codes
- Building Codes
- OSHA 1920.178

Specifications

- Height: 14.5"
- Diameter: 11.25"

APPLICANT:
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:
PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:
CCL04383
5707 HIGHLAND ROAD
5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:
REGISTERED PROFESSIONAL ENGINEER JOSEPH A. ITZEL 81603 CIVIL STATE OF CALIFORNIA
SIGNED: 2024/11/11
EXPIRES: 2025/09/30

SHEET TITLE:
GN-2

SHEET NAME:
CFC 2022 SECTION 1207 COMPLIANCE

CULTURAL RESOURCES:

31. THE FOLLOWING MITIGATION MEASURES SHALL BE IMPLEMENTED DURING PROJECT RELATED GROUND DISTURBANCE, AND SHALL BE INCLUDED ON ALL CONSTRUCTION PLANS:

i. ALL CONSTRUCTION PERSONNEL, INCLUDING OPERATORS OF EQUIPMENT INVOLVED IN GRADING, OR TRENCHING ACTIVITIES WILL BE ADVISED OF THE NEED TO IMMEDIATELY STOP WORK IF THEY OBSERVE ANY INDICATIONS OF THE PRESENCE OF AN UNANTICIPATED CULTURAL RESOURCE DISCOVERY (E.G. WOOD, STONE, FOUNDATIONS, AND OTHER STRUCTURAL REMAINS; DEBRIS-FILLED WELLS OR PRIVIES; DEPOSITS OF WOOD, GLASS, CERAMICS). IF DEPOSITS OF PREHISTORIC OR HISTORICAL ARCHAEOLOGICAL MATERIALS ARE ENCOUNTERED DURING GROUND DISTURBANCE ACTIVITIES, ALL WORK WITHIN 50 FEET OF THE DISCOVERY SHALL BE REDIRECTED AND A QUALIFIED ARCHAEOLOGIST, CERTIFIED BY THE SOCIETY FOR CALIFORNIA ARCHAEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA), SHALL BE CONTACTED TO EVALUATE THE FINDS AND, IF NECESSARY, DEVELOP APPROPRIATE TREATMENT MEASURES IN CONSULTATION WITH THE COUNTY AND OTHER APPROPRIATE AGENCIES.

IF THE DEPOSITS ARE NOT ELIGIBLE, AVOIDANCE IS NOT NECESSARY. IF ELIGIBLE, DEPOSITS WILL NEED TO BE AVOIDED BY IMPACTS OR SUCH IMPACTS MUST BE MITIGATED. UPON COMPLETION OF THE ARCHAEOLOGICAL ASSESSMENT, A REPORT SHOULD BE PREPARED DOCUMENTING THE METHODS, RESULTS, AND RECOMMENDATIONS. THE REPORT SHOULD BE SUBMITTED TO THE NORTHWEST INFORMATION CENTER AND APPROPRIATE CONTRA COSTA COUNTY AGENCIES.

ii. SHOULD HUMAN REMAINS BE UNCOVERED DURING GRADING, TRENCHING, OR OTHER ON-SITE EXCAVATION(S), EARTHWORK WITHIN 30 YARDS OF THESE MATERIALS SHALL BE STOPPED UNTIL THE COUNTY CORONER HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE HUMAN REMAINS AND DETERMINE THE PROPER TREATMENT AND DISPOSITION OF THE REMAINS. PURSUANT TO CALIFORNIA HEALTH AND SAFETY CODE SECTION 7050.5, IF THE CORONER DETERMINES THE REMAINS MAY THOSE OF A NATIVE AMERICAN, THE CORONER IS RESPONSIBLE FOR CONTACTING THE NATIVE AMERICAN HERITAGE COMMISSION (NAHC) BY TELEPHONE WITHIN 24 HOURS. PURSUANT TO CALIFORNIA PUBLIC RESOURCES CODE SECTION 5097.98, THE NAHC WILL THEN DETERMINE A MOST LIKELY DESCENDANT (MLD) TRIBE AND CONTACT THEM. THE MLD TRIBE HAS 48 HOURS FROM THE TIME THEY ARE GIVEN ACCESS TO THE SITE TO MAKE RECOMMENDATIONS TO THE LAND OWNER FOR TREATMENT AND DISPOSITION OF THE ANCESTOR'S REMAINS. THE LAND OWNER SHALL FOLLOW THE REQUIREMENTS OF PUBLIC RESOURCES CODE SECTION 5097.98 FOR THE REMAINS. (MM CULTURAL RESOURCES 1)

AIR QUALITY

29. AIR QUALITY 1: THE FOLLOWING BAY AREA AIR QUALITY MANAGEMENT DISTRICT, BASIC CONSTRUCTION MITIGATION MEASURES SHALL BE IMPLEMENTED DURING PROJECT CONSTRUCTION AND SHALL BE INCLUDED ON ALL CONSTRUCTION PLANS.

- ALL EXPOSED SURFACES (E.G., PARKING AREAS, STAGING AREAS, SOIL PILES, GRADED AREAS, AND UNPAVED ACCESS ROADS) SHALL BE WATERED TWO TIMES PER DAY.
- ALL HAUL TRUCKS TRANSPORTING SOIL, SAND, OR OTHER LOOSE MATERIAL OFF-SITE SHALL BE COVERED.
- ALL VISIBLE MUD OR DIRT TRACKED-OUT ONTO ADJACENT PUBLIC ROADS SHALL BE REMOVED USING WET POWER VACUUM STREET SWEEPERS AT LEAST ONCE PER DAY. THE USE OF DRY POWER IS PROHIBITED.
- ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MPH.
- ALL ROADWAYS, DRIVEWAYS, AND SIDEWALKS TO BE PAVED SHALL BE COMPLETED AS SOON AS POSSIBLE. BUILDING PADS SHALL BE LAID AS SOON AS POSSIBLE AFTER GRADING UNLESS SEEDING OR SOIL BINDERS ARE USED.
- IDLING TIMES SHALL BE MINIMIZED EITHER BY SHUTTING EQUIPMENT OFF WHEN NOT IN USE OR REDUCING THE MAXIMUM IDLING TIME TO FIVE MINUTES (AS REQUIRED BY THE CALIFORNIA AIRBORNE TOXICS CONTROL MEASURE TITLE 13, SECTION 2485 OF CALIFORNIA CODE OF REGULATIONS [CCR]). CLEAR SIGNAGE SHALL BE PROVIDED FOR CONSTRUCTION WORKERS AT ALL ACCESS POINTS.
- ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED BY A CERTIFIED VISIBLE EMISSIONS EVALUATOR.
- POST A PUBLICLY VISIBLE SIGN WITH THE TELEPHONE NUMBER AND PERSON TO CONTACT AT THE LEAD AGENCY REGARDING DUST COMPLAINTS. THIS PERSON SHALL RESPOND AND TAKE CORRECTIVE ACTION WITHIN 48 HOURS. THE AIR DISTRICT'S PHONE NUMBER SHALL ALSO BE VISIBLE TO ENSURE COMPLIANCE WITH APPLICABLE REGULATIONS.

(MM AIR QUALITY 1)

AESTHETICS:

18. THE FACILITY, ALL FENCES SURROUNDING A FACILITY, AND ALL OTHER FIXTURES AND IMPROVEMENTS ON THE FACILITY SITE SHALL BE CAMOUFLAGED TO BLEND INTO THE SCENIC HILLSIDE. THE PROPOSED FAUX WATER TOWER SHALL CONCEAL ALL ANTENNAS AND ANCILLARY EQUIPMENT SO THEY ARE NOT VISIBLE FROM THE SURROUNDING PROPERTIES. FENCES SHALL BE MADE OF WOOD OR OTHERWISE BLEND INTO THE RURAL AGRICULTURAL LANDSCAPE. ALL EQUIPMENT AND FENCES MUST BE MAINTAINED AS OFTEN AS NECESSARY TO PREVENT FADING, CHIPPING, OR WEATHERING OF PAINT THAT WOULD DEFEAT THE CAMOUFLAGING OF THE FACILITY.

APPLICANT:

AT&T

5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:

CCL04383

5707 HIGHLAND ROAD

5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

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A	09/24/24	ISSUED FOR 90%CD'S	BH
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PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER
JOSEPH J. FITZSIMONS
81603
CIVIL
STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

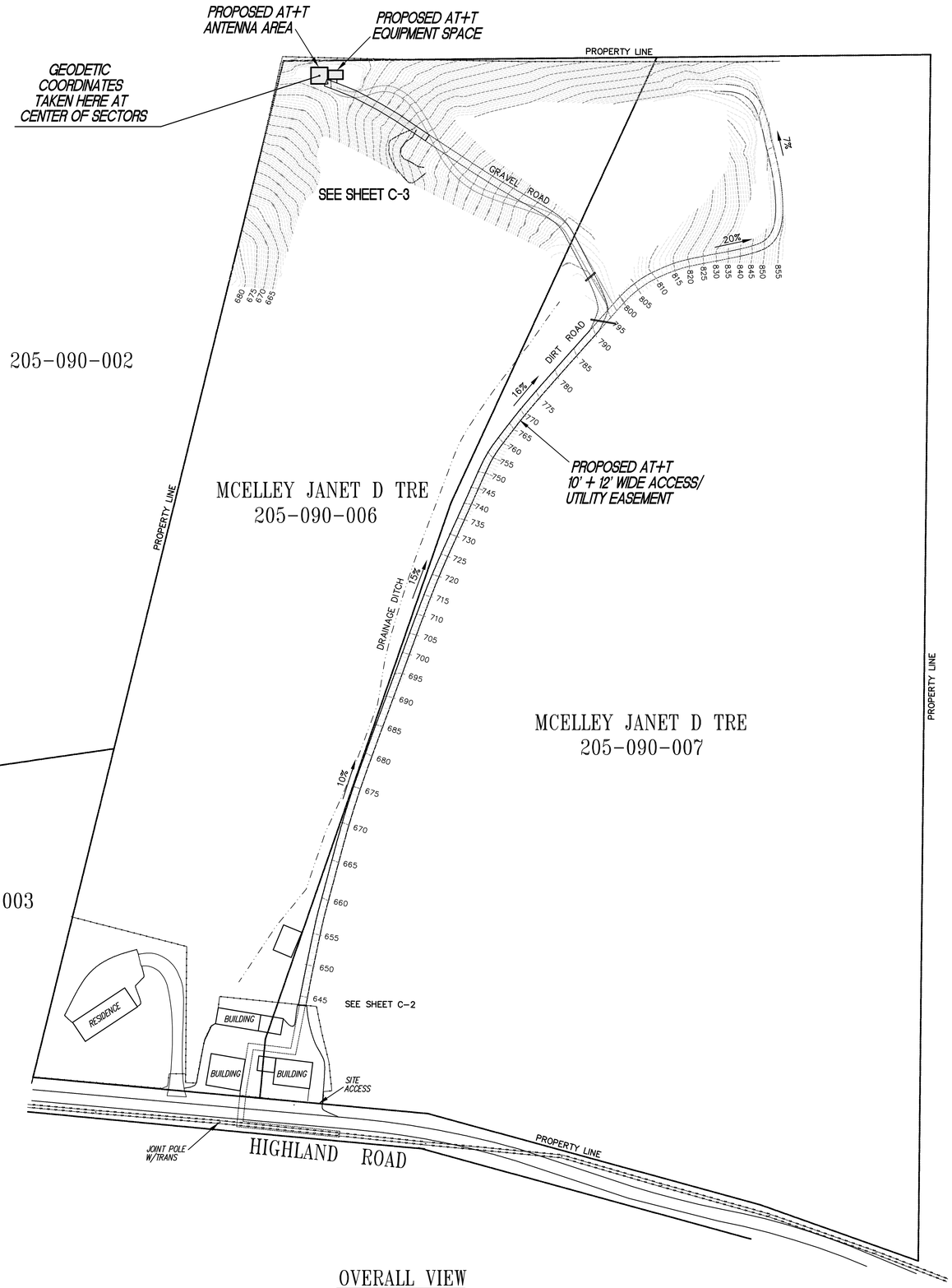
It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:

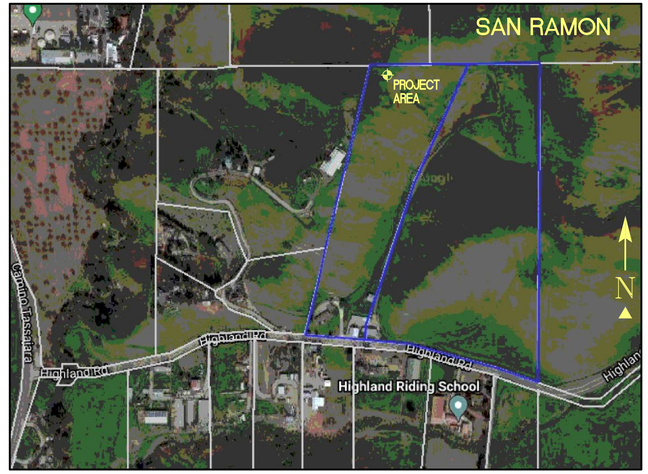
GN-3

SHEET NAME:

CONDITIONS OF APPROVAL



OVERALL VIEW



VICINITY MAP

PROPERTY INFORMATION

OWNER: MCELLEY JANET D TRE
ADDRESS: 5707 HIGHLAND ROAD
SAN RAMON, CA 94583

SITE: JANET AND SHANE McELLEY
5707 HIGHLAND ROAD
SAN RAMON, CA 94583

ASSESSOR'S PARCEL NUMBER: 205-090-006 & 205-090-007

EXISTING GROUND ELEVATION: CENTER OF SECTORS=902.0'

SURVEYOR'S NOTES

ALL EASEMENTS CONTAINED IN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED. SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

BASIS OF BEARING

BEARINGS SHOWED HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM *STATE PLANE COORDINATE ZONE 3*, DETERMINED BY GPS OBSERVATIONS.

UTILITY NOTES

SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT U.S.A. AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND / OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

LESSOR'S LEGAL DESCRIPTION

ALL THAT CERTAIN REAL PROPERTY SITUATE IN THE COUNTY OF CONTRA COSTA, STATE OF CALIFORNIA, RECORDED PARCEL B, MAP OF PARCEL MAP, FILED JULY 3, 1969 BOOK 9 PARCEL MAPS, PAGE 30 CONTRA COSTA COUNTY RECORDS.

BENCHMARK

ELEVATION ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS, APPLYING GEOID 99 SEPARATIONS, CONSTRAINING TO NGS CONTROL STATION 'LUTZ' ELEVATION=450.0' (NAVD88)

TITLE REPORT

TITLE REPORT WAS PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY, ORDER NO:5026900-6746706 AND 5026900-6755519, DATED: DECEMBER 29, 2021.

SURVEY DATE

1/04/22

LEGEND

P.O.B.	POINT OF BEGINNING	WV	WATER CONTROL VALVE
TFC	TOP FACE OF CURB		FIRE HYDRANT
GR	GROUND SHOT		GUY CONDUCTOR
EP	EDGE OF PAVEMENT		FOUND AS NOTED
DWY	ACCESS DRIVEWAY		POWER POLE
JP	JOINT POLE		
TRANS	TRANSFORMER		
TW	TOP OF WALL		ELECTRICAL TRANSFORMER
ELEC	ELECTRIC	AC	AIR CONDITIONING UNIT
SSCO	SEWER CLEAN OUT		TELEPHONE PEDESTAL
	GEODETIC COORDINATES	TV	TELEPHONE VAULT
XXXXX TOG	SPOT ELEVATION	T	TELEPHONE MANHOLE
	DISH ANTENNA	GM	GAS VALVE / GAS METER
	6' CHAINLINK FENCE		

N
W E
S

100 SCALE

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

ISSUE STATUS

△	DATE	DESCRIPTION	REV.
	1/04/2022	SITE PLAN	-
	4/27/2022	REVISED LOCATION	
	2/21/2023	REVISED LOCATION	
	3/24/2023	REVISED LOCATION	
	5/14/2024	ADD'L ROAD SURVEY	
	8/19/2024	REVISED ACCESS & UTILITY	
	10/17/2024	REVISED LEASE AREAS	
	10/15/2024	ADDITIONAL TOPO	

HAYES
Land Surveying And Mapping
2330 HADIGAN COURT
CONCORD, CA 94518

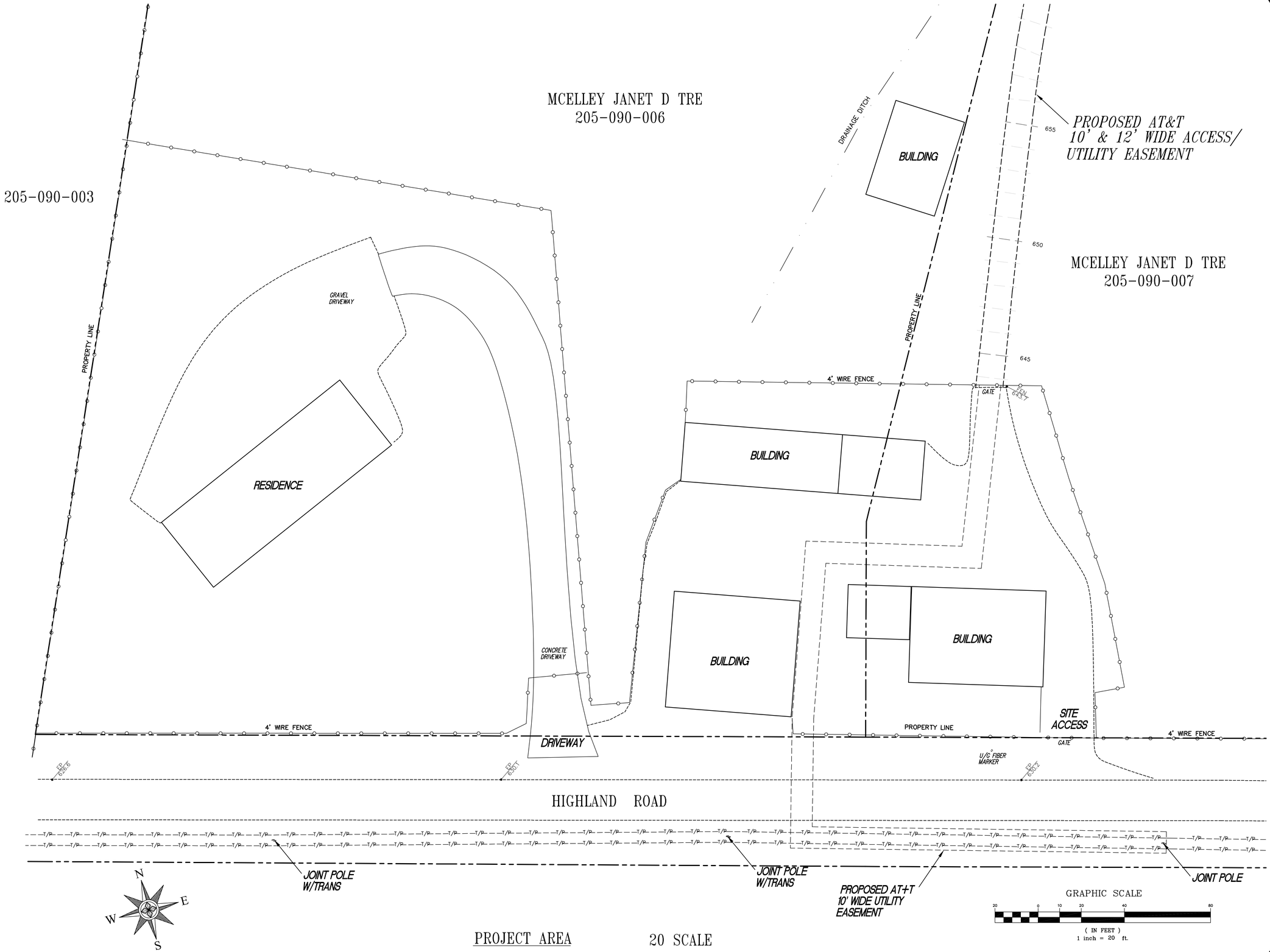
LICENSED LAND SURVEYOR
K. HAYES
No. 7900
EXP: 12/31/25
STATE OF CALIFORNIA

at&t
2600 CAMINO RAMON
4TH FLOOR, WEST WING
SAN RAMON, CA 94583

TOPOGRAPHIC SURVEY
EXISTING CONDITIONS

CCL04383
JANET AND SHANE McELLEY
5707 HIGHLAND ROAD
SAN RAMON, CA 94583

C-1
SHEET 1 of 3



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CONCORD, CA 94518

LICENSED LAND SURVEYOR
K. HAYES
No. 7930
EXP: 12/31/25
STATE OF CALIFORNIA

at&t
2600 CAMINO RAMON
4TH FLOOR, WEST WING
SAN RAMON, CA 94583

TOPOGRAPHIC SURVEY
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JANET AND SHANE McELLEY
5707 HIGHLAND ROAD
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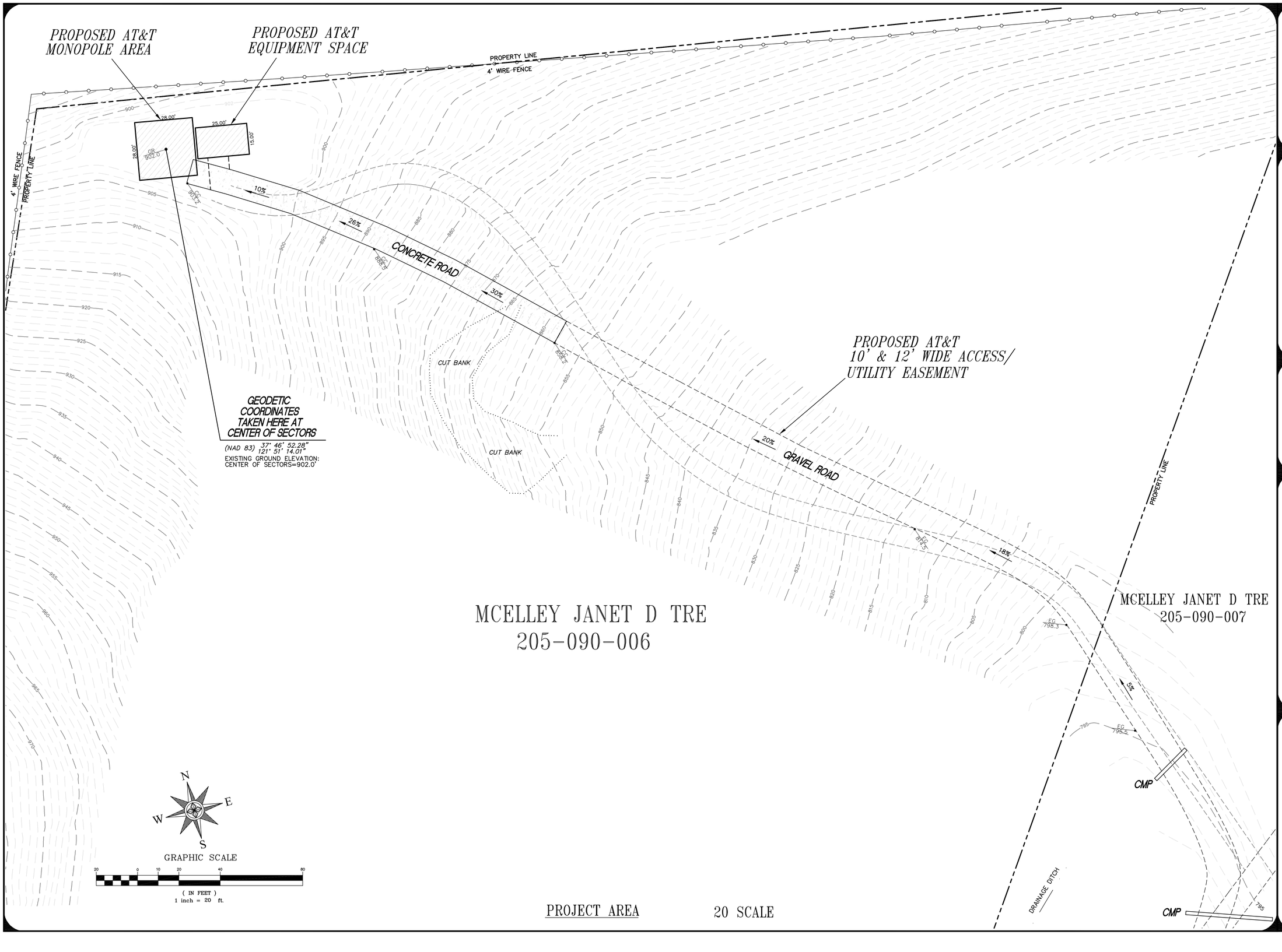
C-2
SHEET 2 of 3



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HAYES
Land Surveying
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2930 MADIGAN COURT
CONCORD, CA 94518

LICENSED LAND SURVEYOR
K. HAYES
No. 7936
EXP: 12/31/25
STATE OF CALIFORNIA

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SAN RAMON, CA 94583

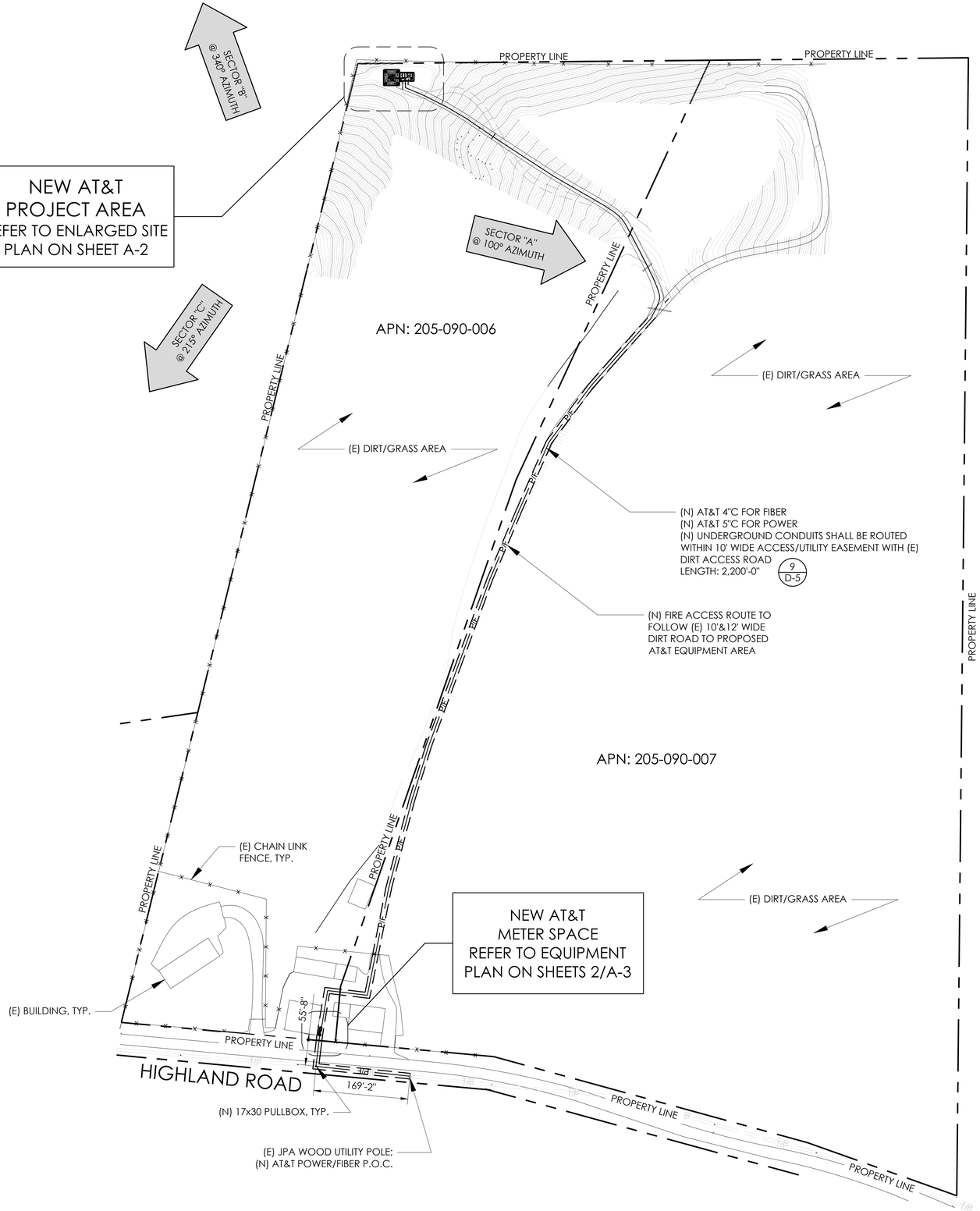
TOPOGRAPHIC SURVEY
EXISTING CONDITIONS

CCL04383
JANET AND SHANE McELLEY
5707 HIGHLAND ROAD
SAN RAMON, CA 94583

C-3
SHEET 3 of 3

THIS IS NOT A SITE SURVEY

ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.



1 OVERALL SITE PLAN

24"x36" SCALE: 1" = 100'-0"
11"x17" SCALE: 1" = 200'-0"
100' 50' 0' 100'

APPLICANT:

AT&T

5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
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B	10/30/24	ISSUED FOR 95%CD'S	SMR
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PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER JOSEPH A. FITZSIMONS 81603 CIVIL STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:

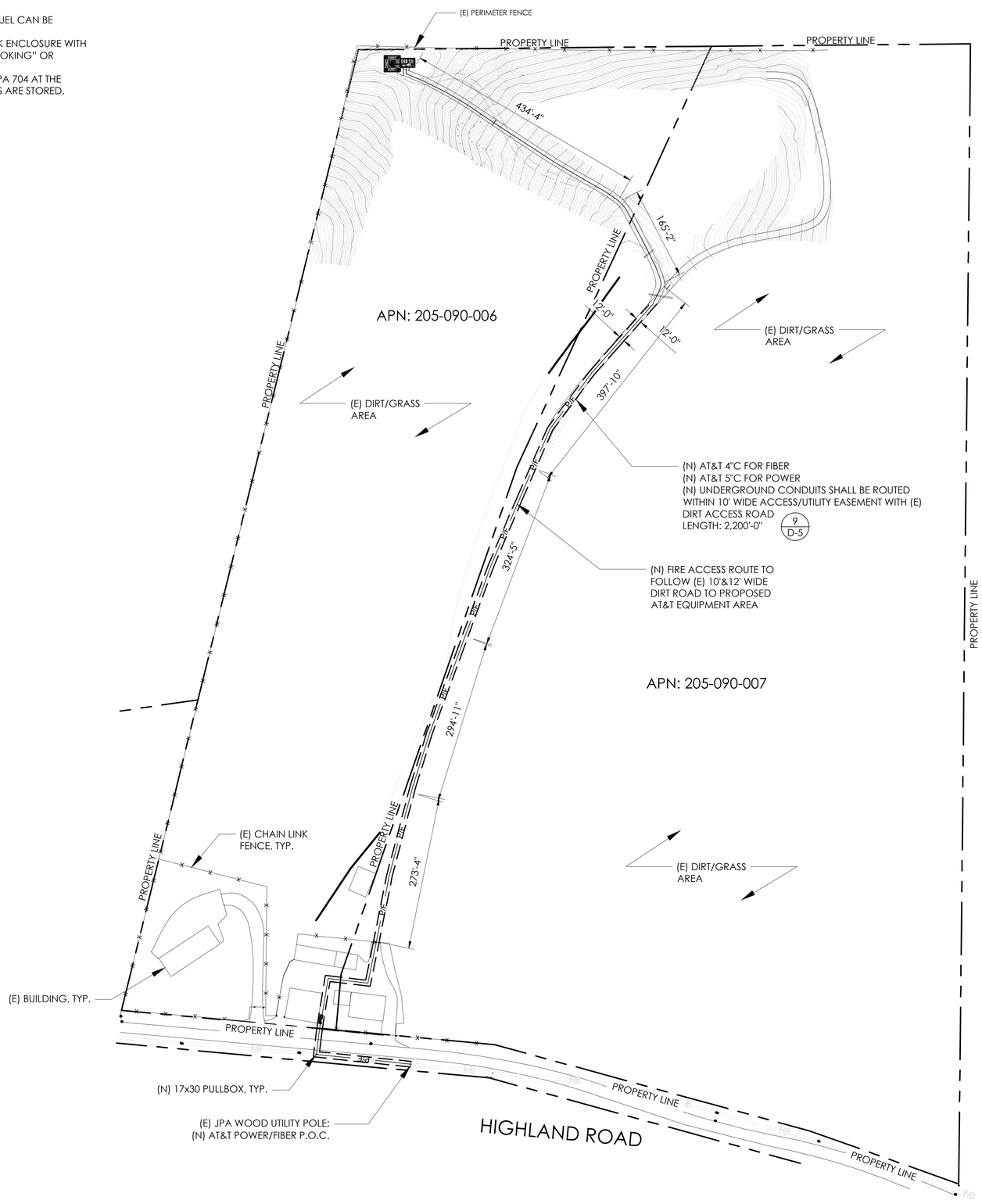
A-1

SHEET NAME:

OVERALL SITE PLAN

FIRE DEPARTMENT NOTES:

1. A FIRE DEPARTMENT INSPECTION IS REQUIRED BEFORE THE FUEL CAN BE PLACED INTO THE TANK AND THE GENERATOR IS USED.
2. LABEL ABOVE GROUND TANK ON BOTH SIDES AND OR TANK ENCLOSURE WITH "190 GALLONS DIESEL FUEL – COMBUSTIBLE LIQUID – NO SMOKING" OR PROVIDE SIGNAGE INDICATING THE SAME.
3. INSTALL HAZARD IDENTIFICATION SIGNS AS SPECIFIED IN NFPA 704 AT THE ENTRANCES TO LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED, AND ON STATIONARY ABOVE-GROUND TANKS.



1 FIRE SITE PLAN

24"x36" SCALE: 1" = 100'–0"
11"x17" SCALE: 1" = 200'–0"
100' 50' 0' 100'

APPLICANT:

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PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER
ROBERT FITZPATRICK
81607
CIVIL
STATE OF CALIFORNIA

SIGNED: 2025/01/15
EXPIRES: 2025/09/30

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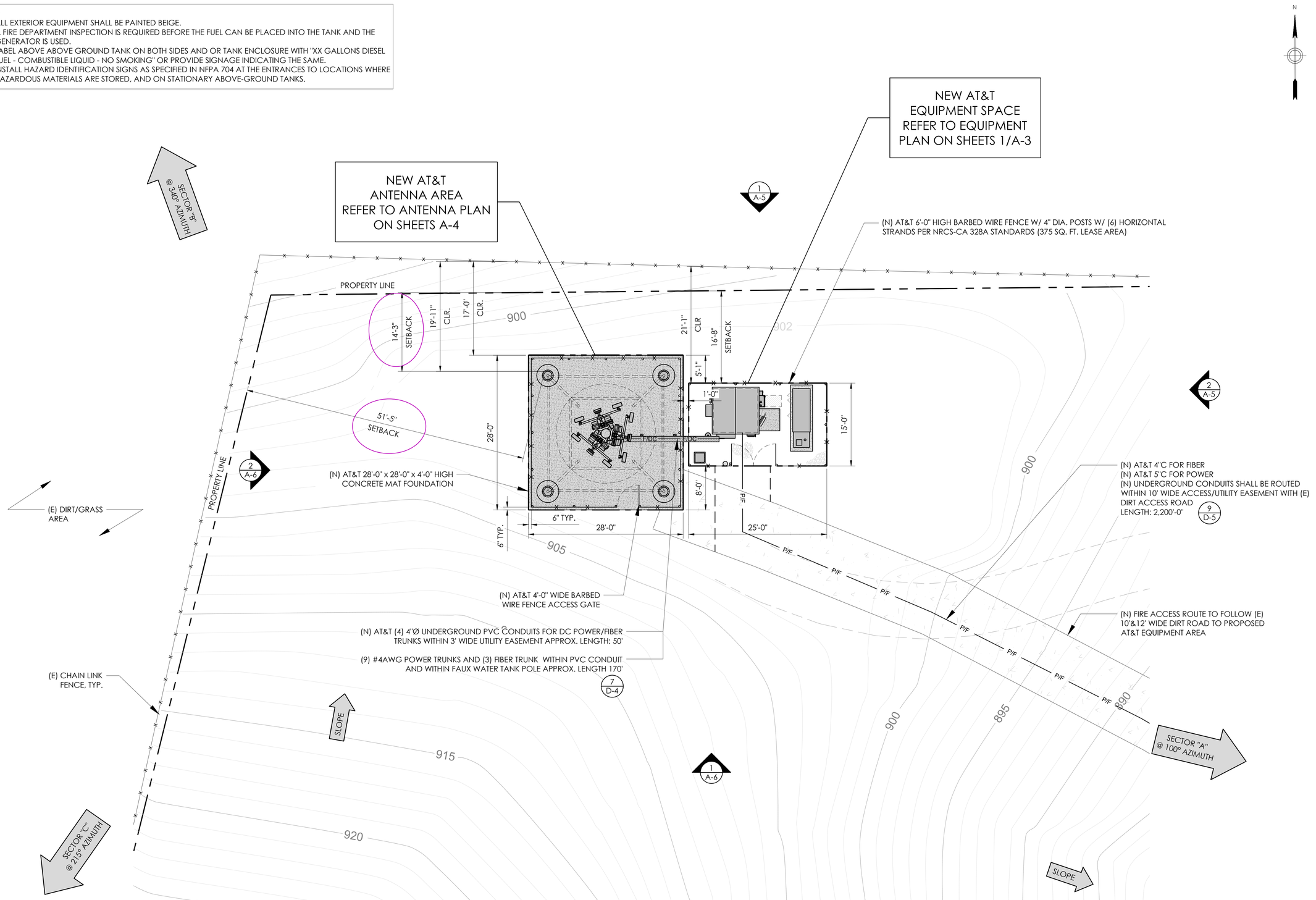
SHEET TITLE:

A-1.1

SHEET NAME:

FIRE SITE PLAN

NOTE:
- ALL EXTERIOR EQUIPMENT SHALL BE PAINTED BEIGE.
- A FIRE DEPARTMENT INSPECTION IS REQUIRED BEFORE THE FUEL CAN BE PLACED INTO THE TANK AND THE GENERATOR IS USED.
- LABEL ABOVE ABOVE GROUND TANK ON BOTH SIDES AND OR TANK ENCLOSURE WITH "XX GALLONS DIESEL FUEL - COMBUSTIBLE LIQUID - NO SMOKING" OR PROVIDE SIGNAGE INDICATING THE SAME.
- INSTALL HAZARD IDENTIFICATION SIGNS AS SPECIFIED IN NFPA 704 AT THE ENTRANCES TO LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED, AND ON STATIONARY ABOVE-GROUND TANKS.



1 ENLARGED SITE PLAN

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"
8' 6' 4' 2' 0" 8'

APPLICANT:

AT&T

5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:

CCL04383

5707 HIGHLAND ROAD

5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER JOSEPH FITZSIMMONS 81603 CIVIL STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

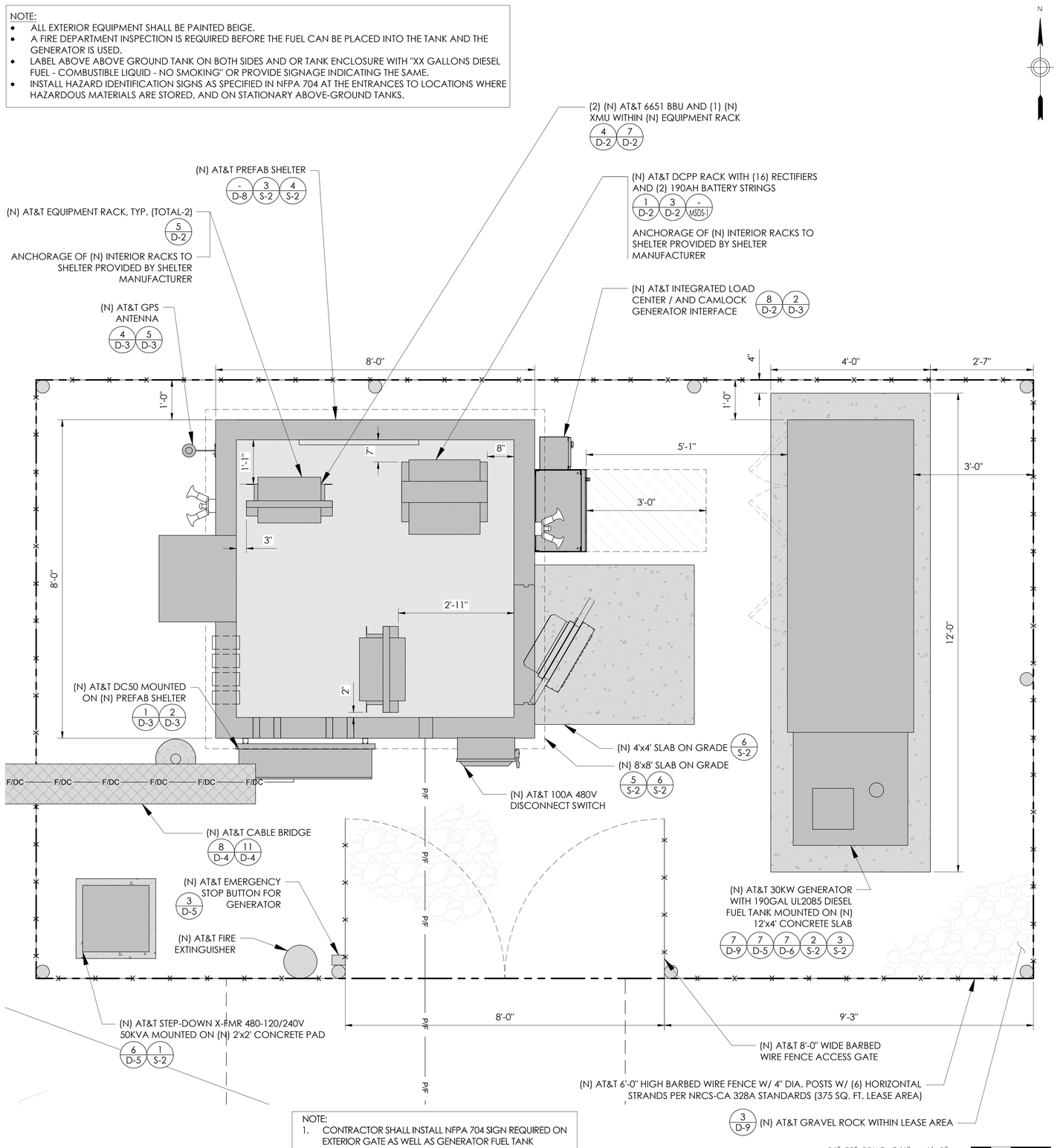
SHEET TITLE:

A-2

SHEET NAME:

ENLARGED SITE PLAN

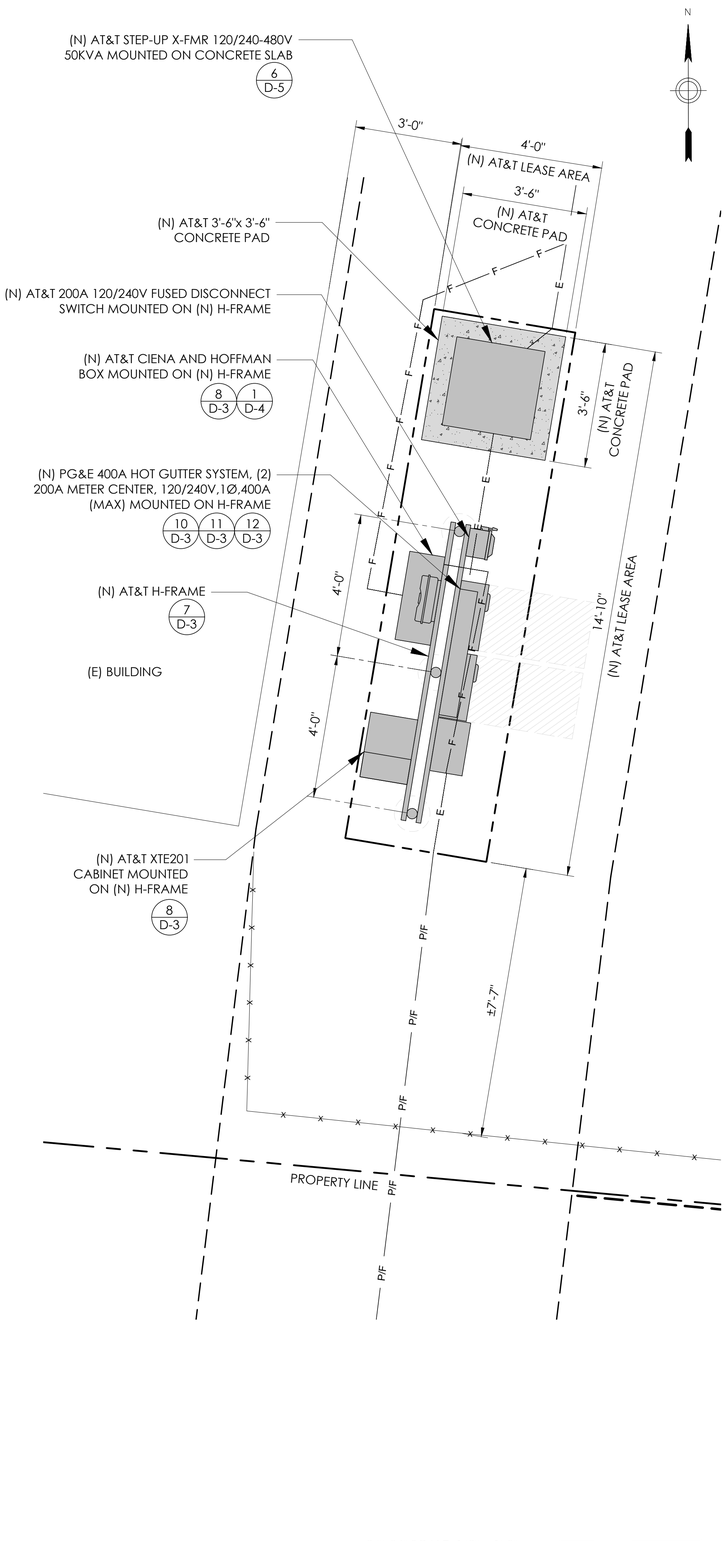
NOTE:
- ALL EXTERIOR EQUIPMENT SHALL BE PAINTED BEIGE.
- A FIRE DEPARTMENT INSPECTION IS REQUIRED BEFORE THE FUEL CAN BE PLACED INTO THE TANK AND THE GENERATOR IS USED.
- LABEL ABOVE ABOVE GROUND TANK ON BOTH SIDES AND OR TANK ENCLOSURE WITH "XX GALLONS DIESEL FUEL - COMBUSTIBLE LIQUID - NO SMOKING" OR PROVIDE SIGNAGE INDICATING THE SAME.
- INSTALL HAZARD IDENTIFICATION SIGNS AS SPECIFIED IN NFPA 704 AT THE ENTRANCES TO LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED, AND ON STATIONARY ABOVE-GROUND TANKS.



NOTE:
1. CONTRACTOR SHALL INSTALL NFPA 704 SIGN REQUIRED ON EXTERIOR GATE AS WELL AS GENERATOR FUEL TANK

1 NEW EQUIPMENT PLAN

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



2 NEW EQUIPMENT PLAN

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

APPLICANT:

AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:

CCL04383

5707 HIGHLAND ROAD

5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER
RANDALL W. MARSHALL
81602
CIVIL
STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

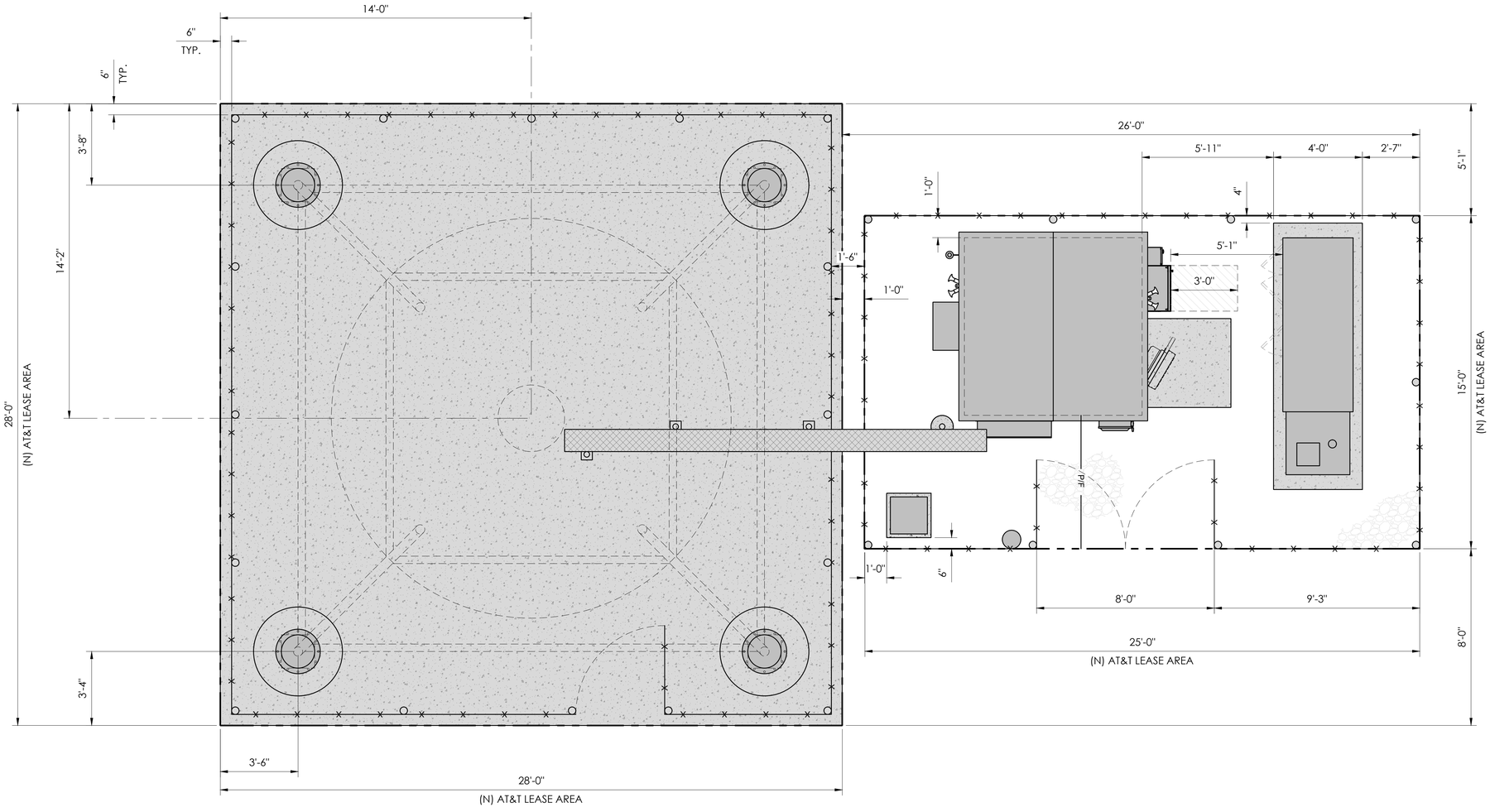
SHEET TITLE:

A-3

SHEET NAME:

NEW EQUIPMENT PLANS

NOTE:
- ALL EXTERIOR EQUIPMENT SHALL BE PAINTED BEIGE.



1 NEW COMPOUND DIMENSION PLAN

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"

N

APPLICANT:

AT&T

5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:

CCL04383

5707 HIGHLAND ROAD

5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER
STEVEN M. RUSSELL
81602
CIVIL
STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

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SHEET TITLE:

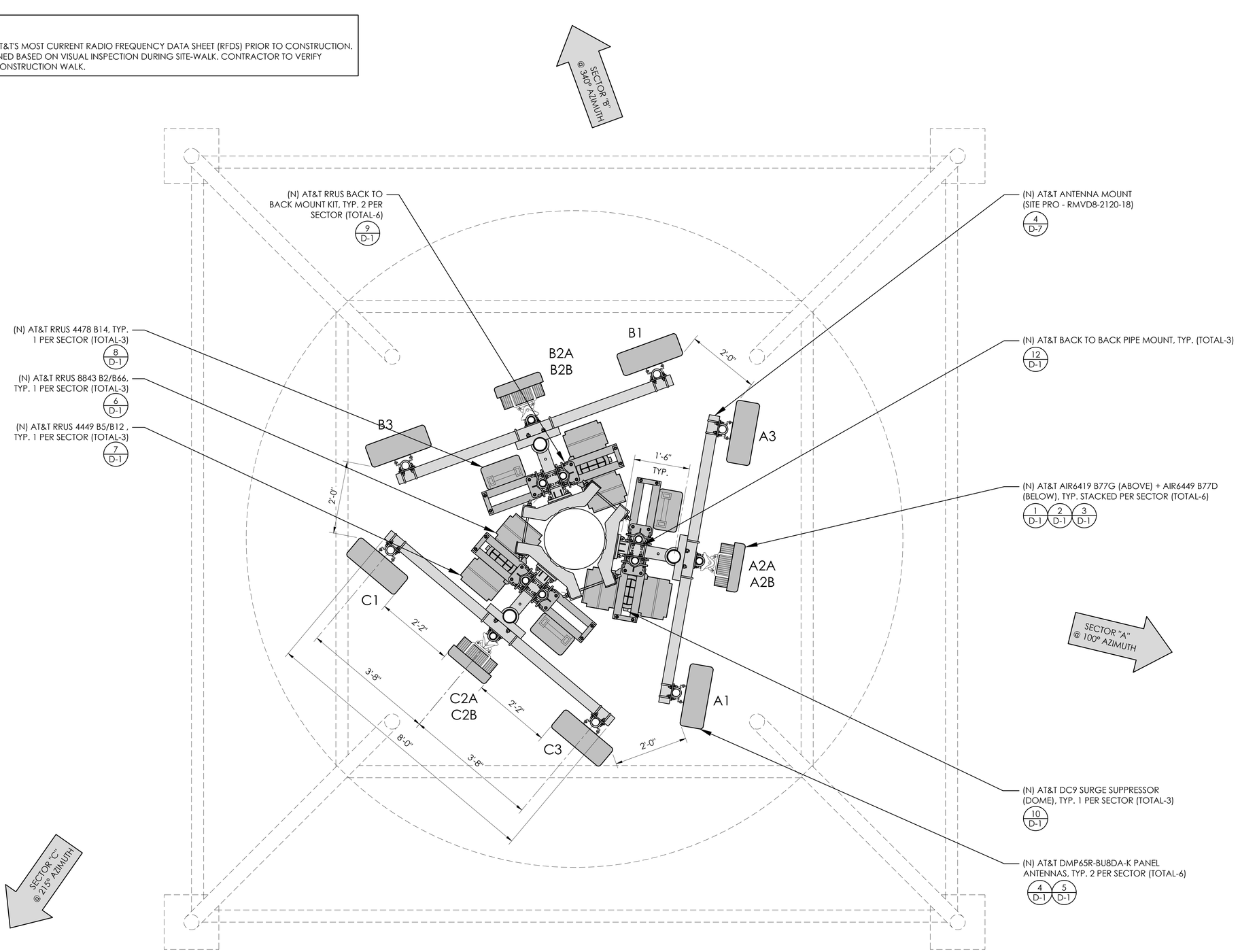
A-3.1

SHEET NAME:

NEW COMPOUND DIMENSION PLAN

NOTES TO CONTRACTOR:

- CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
- CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.



1 NEW ANTENNA PLAN

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

APPLICANT:

AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:

CCL04383

5707 HIGHLAND ROAD

5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

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B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER JOSEPH FITZSIMONS 81603 CIVIL STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:

A-4

SHEET NAME:

NEW ANTENNA PLAN

Position	Antenna			Additional Antenna Information				Line Information	
	Use Existing/ Swap/New	Final	Final	Final Type	Final Location	Azimuths Final	Rad Center Final	Coax / Power & Fiber Final	Final
ALPHA									
1	NEW	CCI DMP65R-BU8DA-K	LTE 700 5G 850 LTE 1900 5G 1900	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	TOP TOP	100	165'	NONE	(9) #4AWG POWER TRUNKS + (3) 0.4 FIBER TRUNKS
2	NEW	(STACKED) ERICSSON AIR6419 B77G ERICSSON AIR6449 B77D	5G DoD 5G CBAND	NONE	NONE	100	165'		
3	NEW	CCI DMP65R-BU8DA-K	LTE FNET LTE 700 LTE AWS 5G AWS	RRUS 4478 B14	TOP	100	165'		
BETA									
1	NEW	CCI DMP65R-BU8DA-K	LTE 700 5G 850 LTE 1900 5G 1900	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	TOP TOP	340	165'	NONE	
2	NEW	(STACKED) ERICSSON AIR6419 B77G ERICSSON AIR6449 B77D	5G DoD 5G CBAND	NONE	NONE	340	165'		
3	NEW	CCI DMP65R-BU8DA-K	LTE FNET LTE 700 LTE AWS 5G AWS	RRUS 4478 B14	TOP	340	165'		
GAMMA									
1	NEW	CCI DMP65R-BU8DA-K	LTE 700 5G 850 LTE 1900 5G 1900	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	TOP TOP	215	165'	NONE	
2	NEW	(STACKED) ERICSSON AIR6419 B77G ERICSSON AIR6449 B77D	5G DoD 5G CBAND	NONE	NONE	215	165'		
3	NEW	CCI DMP65R-BU8DA-K	LTE FNET LTE 700 LTE AWS 5G AWS	RRUS 4478 B14	TOP	215	165'		

APPLICANT:

AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY, STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:

CCL04383
5707 HIGHLAND ROAD
5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER — TIMOTHY J. MITZEL — 81603 — CIVIL — STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

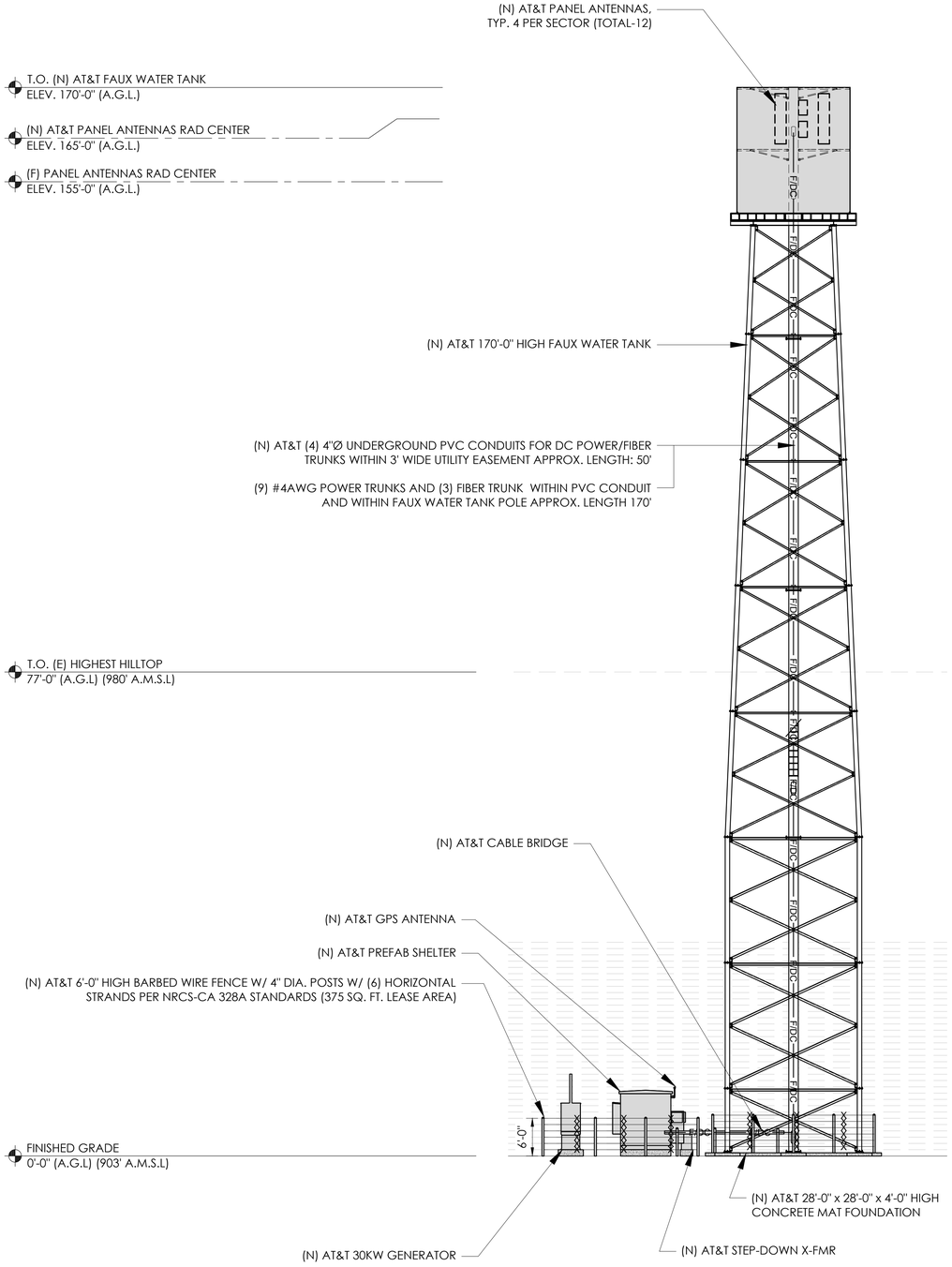
SHEET TITLE:

A-4.1

SHEET NAME:

RF SCHEDULE

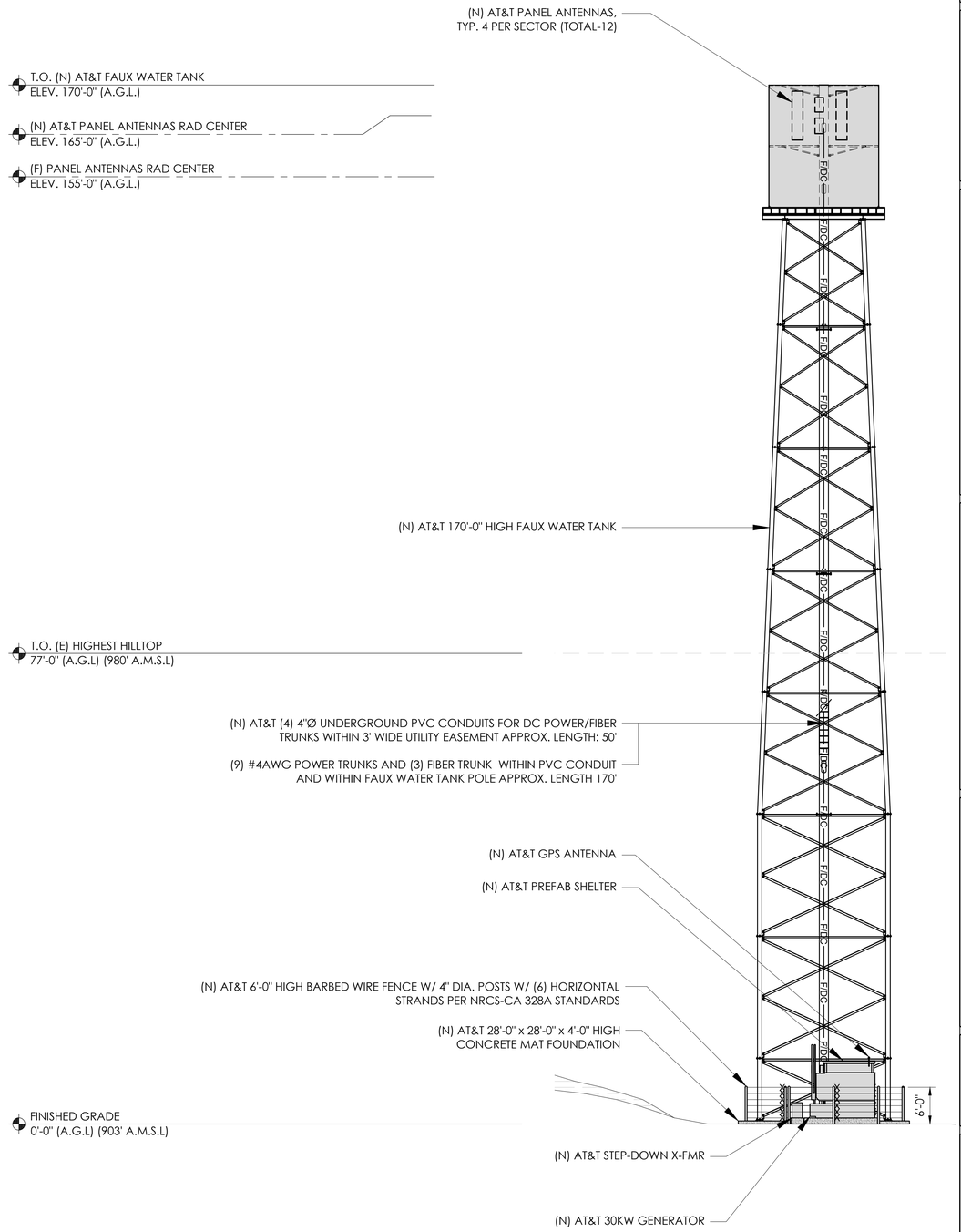
NOTE:
1. ALL (N) RRUS AND DC SURGE SUPPRESSORS NOT SHOWN FOR CLARITY.



NEW NORTH ELEVATION (FAUX WATER TANK LOCATION)

24"x36" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0"
8' 4' 0" 8'

NOTE:
1. ALL (N) RRUS AND DC SURGE SUPPRESSORS NOT SHOWN FOR CLARITY.



2 NEW EAST ELEVATION (FAUX WATER TANK LOCATION)

24"x36" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0"
8' 4' 0" 8'

APPLICANT:

AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:

CCL04383

5707 HIGHLAND ROAD

5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER JOSEPH A. FITZSIMMONS 81603 CIVIL STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

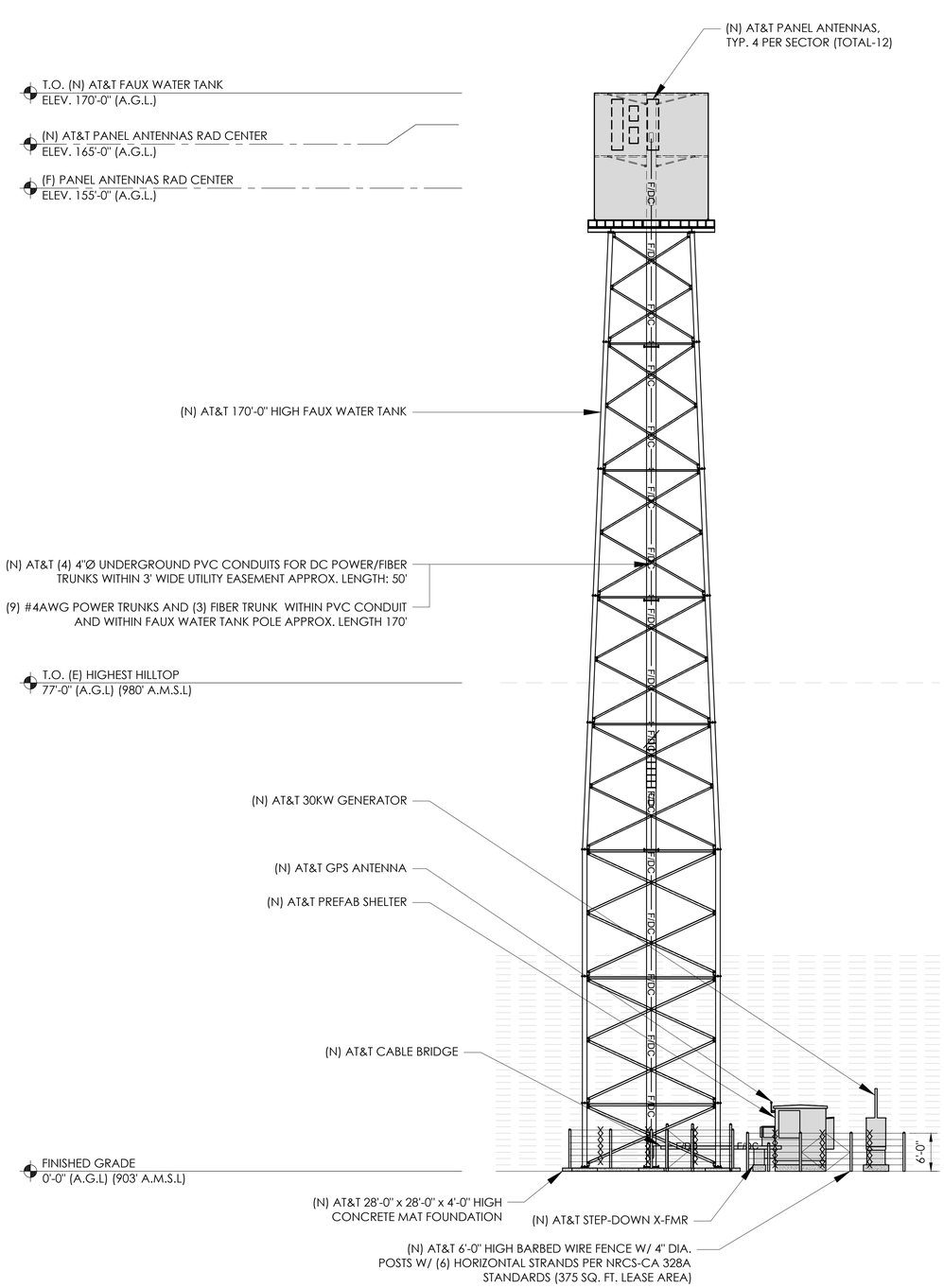
SHEET TITLE:

A-5

SHEET NAME:

NEW FAUX WATER TANK ELEVATIONS

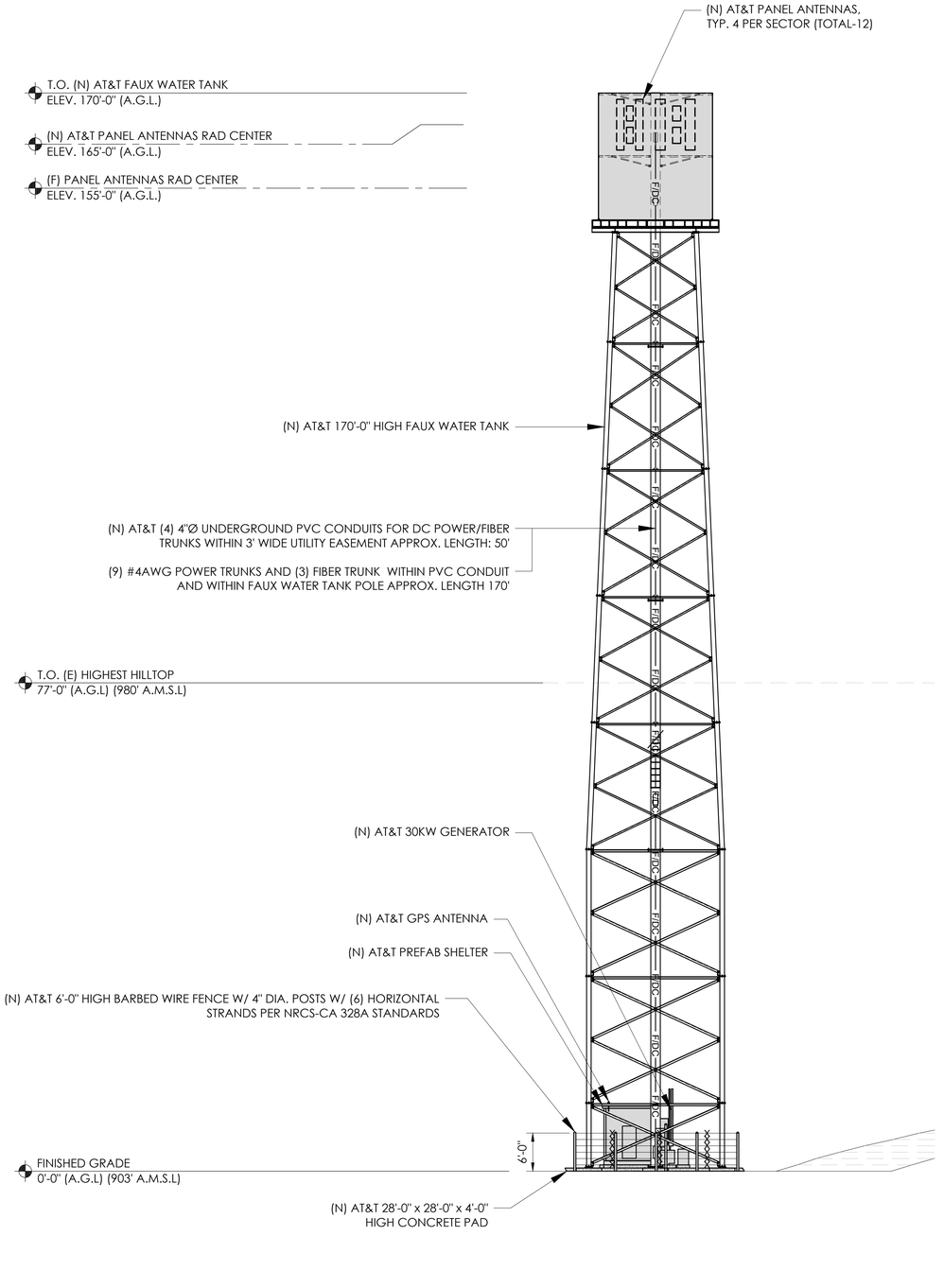
NOTE:
1. ALL (N) RRUS AND DC SURGE SUPPRESSORS NOT SHOWN FOR CLARITY.



1 NEW SOUTH ELEVATION (FAUX WATER TANK LOCATION)

24"x36" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0"
8' 4' 0" 8'

NOTE:
1. ALL (N) RRUS AND DC SURGE SUPPRESSORS NOT SHOWN FOR CLARITY.



2 NEW WEST ELEVATION (FAUX WATER TANK LOCATION)

24"x36" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0"
8' 4' 0" 8'

APPLICANT:

AT&T

5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:

CCL04383

5707 HIGHLAND ROAD

5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER JOSEPH A. FITZSIMMONS 81603 CIVIL STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

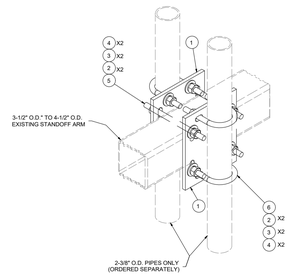
SHEET TITLE:

A-6

SHEET NAME:

NEW FAUX WATER TANK ELEVATIONS

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	12.04
2	16	G12FW	1/2" HDG USS FLATWASHER		0.03	0.55
3	16	G12LW	1/2" HDG LOCKWASHER		0.01	0.22
4	16	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.15
5	4	G12R-8	1/2" x 8" THREADED ROD (HDG.)		0.35	1.41
6	4	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	2.50
					TOTAL WT. #	17.87



TOLERANCE NOTES
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

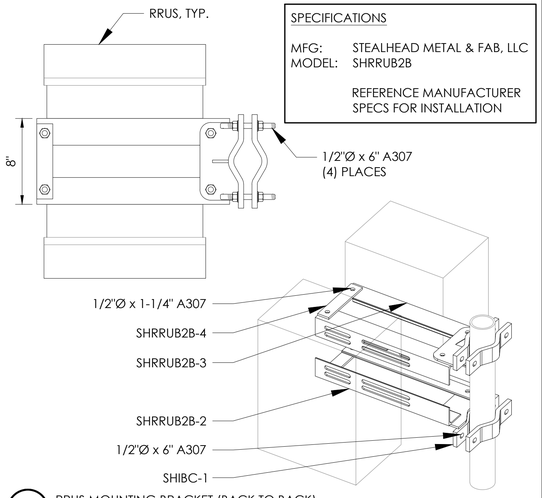
PROPRIETARY INFO NOTE:
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT SITE PRO 1 AND SHALL NOT BE DISCLOSED, USED OR REPRODUCED WITHOUT THE CONSENT OF VALMONT SITE PRO 1 IN STRICTLY PROHIBITED.

DESCRIPTION: BACK TO BACK PIPE MOUNT

SITE PRO 1 Engineering Support Team 1-888-753-7446
Locations: New York, NY; Los Angeles, CA; Plymouth, IN; Atlanta, GA; Dallas, TX
A VALMONT COMPANY

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	SHEET
	CEK 1/17/2013		BBPM-K1	1 OF 1
CLASS / SUB	DRAWING USAGE	CHECKED BY	DWG. NO.	
81 03	CUSTOMER	BMC 1/18/2013	BBPM-K1	

12 CROSSOVER PLATE DETAIL
N.T.S.



SPECIFICATIONS

MFG: STEALHEAD METAL & FAB, LLC
MODEL: SHRRUB2B

REFERENCE MANUFACTURER SPECS FOR INSTALLATION

9 RRUS MOUNTING BRACKET (BACK TO BACK)
N.T.S.

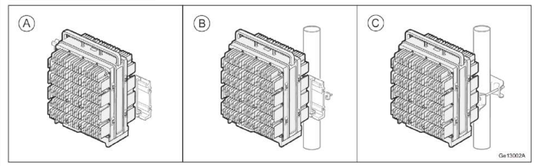
SPECIFICATIONS

MFG: ERICSSON
MODEL: RRUS 8843 B2/B66A
HEIGHT: 14.9 IN
WIDTH: 13.2 IN
DEPTH: 10.9 IN

WEIGHT: 72 LBS

- 1.6" MIN. HORIZONTAL SEPARATION BETWEEN RADIOS SIDE BY SIDE
- 16" MIN. VERTICAL SEPARATION BETWEEN 2 RADIOS
- 8" MIN. SEPARATION REQUIRED FROM ANTENNA BACK PLAN & SIDE
- 20" MIN. VERTICAL SEPARATION FROM ANTENNA
- 40" MIN. FRONT CLEARANCE IN-FRONT OF RADIO

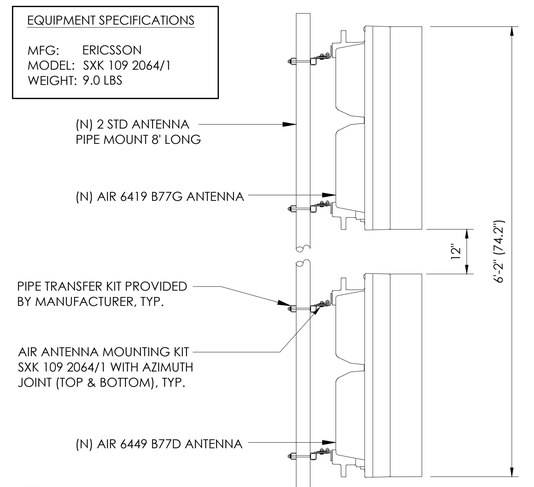
MOUNTING KIT OPTIONS:



6 RRUS 8843 SPECIFICATION
N.T.S.

EQUIPMENT SPECIFICATIONS

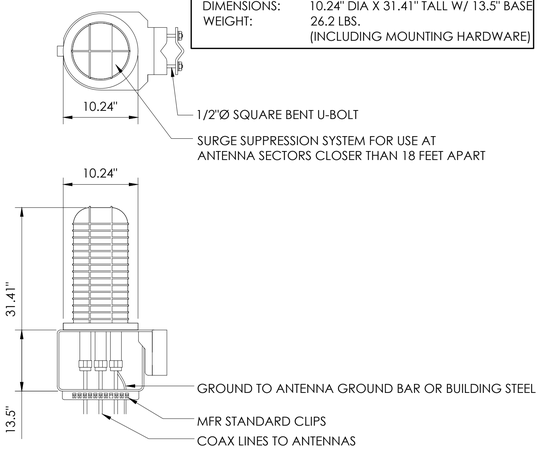
MFG: ERICSSON
MODEL: SXK 109 2064/1
WEIGHT: 9.0 LBS



3 AIR ANTENNA MOUNTING DETAIL (STACKED)
N.T.S.

RAYCAP DC9-48-60-24-8C EV
SURGE SUPPRESSION SOLUTION

COLOR: BLACK/SILVER
DIMENSIONS: 10.24" DIA X 31.41" TALL W/ 13.5" BASE
WEIGHT: 26.2 LBS. (INCLUDING MOUNTING HARDWARE)

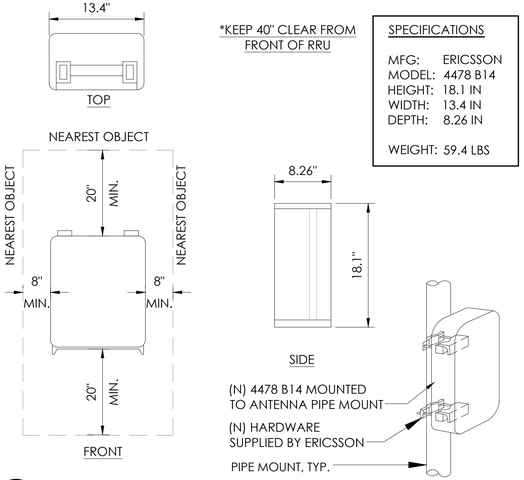


POLE MOUNT - USING PRE-INSTALLED EXISTING HARDWARE, MOUNT BRACKET TO 2" TO 4" DIAMETER POLE

MONOPOLE MOUNT - USE 1" STAINLESS STEEL BRACKETS (NOT SUPPLIED) THROUGH SLOTS ON BRACKET TO MOUNT TO MONOPOLE

UNISTRUT MOUNT - USING HARDWARE FROM MOUNTING BRACKET MOUNT TO UNISTRUT

10 DC9 SURGE SUPPRESSOR
N.T.S.



SPECIFICATIONS

MFG: ERICSSON
MODEL: 4478 B14
HEIGHT: 18.1 IN
WIDTH: 13.4 IN
DEPTH: 8.26 IN

WEIGHT: 59.4 LBS

8 RRUS 4478 B14 SPECIFICATIONS
N.T.S.

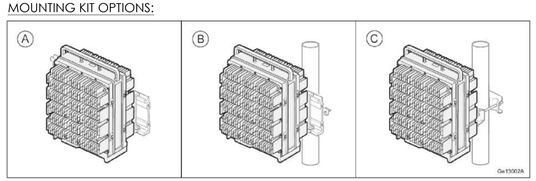
SPECIFICATIONS

MFG: ERICSSON
MODEL: RRUS 4449 B5/B12

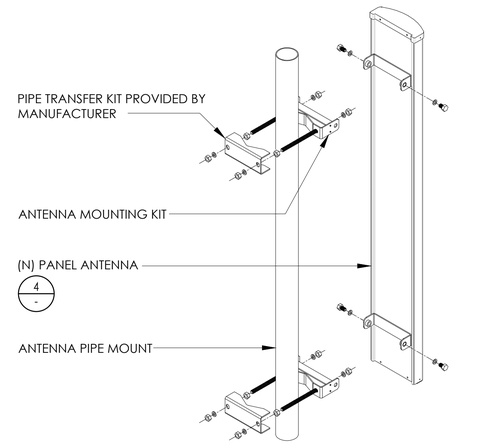
HEIGHT: 14.96 IN
W/ SHIELD: 17.90 IN
WIDTH: 13.19 IN
DEPTH: 10.43 IN
WEIGHT: 74.96 LBS

- 1.6" MIN. HORIZONTAL SEPARATION BETWEEN RADIOS SIDE BY SIDE
- 16" MIN. VERTICAL SEPARATION BETWEEN 2 RADIOS
- 8" MIN. SEPARATION REQUIRED FROM ANTENNA BACK PLAN & SIDE
- 20" MIN. VERTICAL SEPARATION FROM ANTENNA
- 40" MIN. FRONT CLEARANCE IN-FRONT OF RADIO

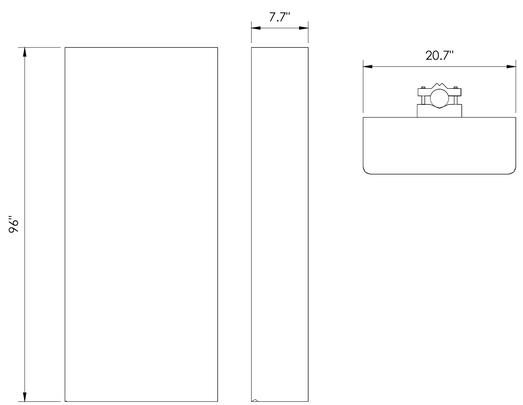
MOUNTING KIT OPTIONS:



7 RRUS 4449 SPECIFICATION
N.T.S.

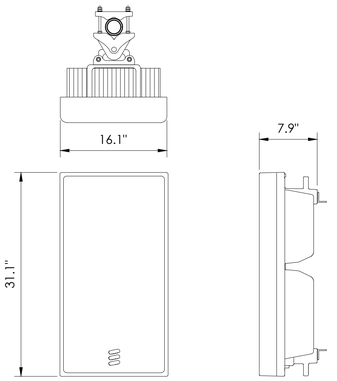


SPECIFICATIONS
MFG / MODEL / PORT: CCI / DMP65R-BU8DA-K
DIMENSIONS: 96" H X 20.7" W X 7.7" D
WEIGHT: 119 LBS (W/O MOUNTING KIT)



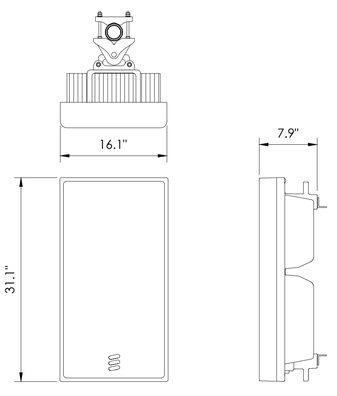
4 ANTENNA SPECIFICATION
N.T.S.

SPECIFICATIONS:
MFG / MODEL / PORT: ERICSSON / AIR 6419 B77G
DIMENSIONS: 31.1" H X 16.1" W X 7.9" D
WEIGHT: 61.1 LBS (W/ MOUNTING KIT)



2 ANTENNA SPECIFICATION
N.T.S.

SPECIFICATIONS:
MFG / MODEL / PORT: ERICSSON / AIR 6449 B77D
DIMENSIONS: 31.1" H X 16.1" W X 7.9" D
WEIGHT: 61.1 LBS (W/ MOUNTING KIT)



1 ANTENNA SPECIFICATIONS
N.T.S.

APPLICANT:
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:
PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:
CCL04383
5707 HIGHLAND ROAD
5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:
REGISTERED PROFESSIONAL ENGINEER JOSEPH A. MITZEL 81603 CIVIL STATE OF CALIFORNIA
SIGNED: 2024/11/11
EXPIRES: 2025/09/30
It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:
D-1

SHEET NAME:
DETAILS

ASCO D300L SERIS POWER
TRANSFER LOAD CENTER
RATED 200 AMPERES, 240V
MAX., SINGLE PHASE / 3 WIRE,
TYPE 3R ENCLOSURE

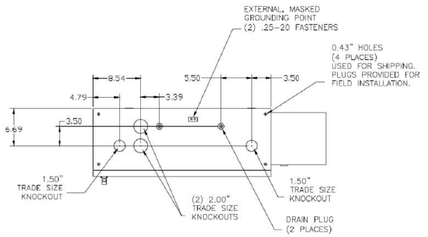
SPECIFICATIONS

MFG: INTERSECT, INC.
MODEL: AA-G-3R-CL PTLC

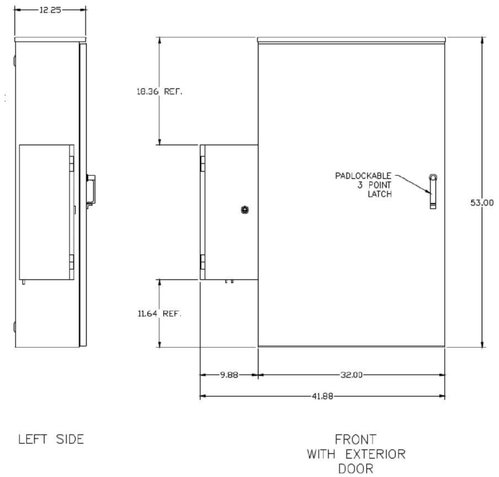
OVERALL DIMENSIONS:
53"H x 32"W x 12.3"D
(EXCLUDING SIDE MOUNT RECEPTACLE)

53"H x 41.8"W x 12.3"D
(INCLUDING SIDE MOUNT RECEPTACLE)

WEIGHT: 200 LBS



BOTTOM



LEFT SIDE

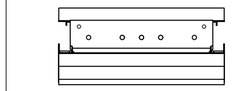
FRONT
WITH EXTERIOR
DOOR

8 AC PANEL SPECIFICATIONS
N.T.S.

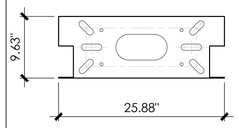
EQUIPMENT SPECIFICATIONS

MFG: TELECT (or equal to)
MODEL: 12623-21
HEIGHT: 84.0 IN
WIDTH: 25.88 IN
DEPTH: 9.63 IN

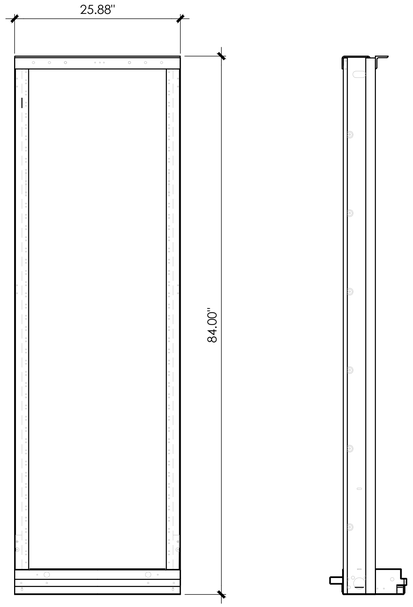
WEIGHT OF RACK: 105 LBS
MAX WEIGHT: 555 LBS



TOP



BOTTOM



FRONT

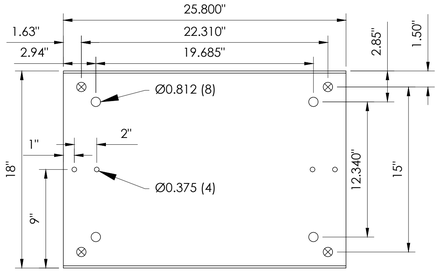
SIDE

5 23" FIF RACK SPECIFICATIONS
N.T.S.

VERTIV 7100 DC POWER SYSTEM FOR -48 VDC/-58 VDC				
ITEM	WEIGHT/UNIT (LBS)	QTY	TOTAL WEIGHT (LBS)	
EMPTY RACK	500	1	500	
Rack + Rectifiers & Converters only	605.6	1	605.6	
SBS190F	132.3	8	1058.4	
		TOTAL =	1664	LBS

EQUIPMENT SPECIFICATIONS
MANUFACTURER: VERTIV
AT&T NUMBER: NEQ.53545
VERTIV NUMBER: 582127000503
H / W / D: 84" / 25" / 23"
SAFETY COMPLIANCE: UL LISTED AND SEISMIC ZONE 4 COMPLIANT

NOTE:
1. OCCUPY ANCHOR HOLES 'X'



BOTTOM

2 VERTIV 7100 DC POWER PLANT
N.T.S.

11 NOT USED
N.T.S.

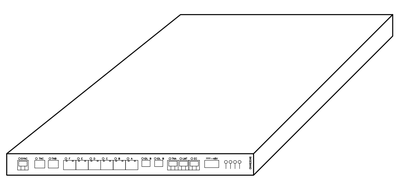
10 NOT USED
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

EQUIPMENT SPECIFICATIONS

MFG: ERICSSON
MODEL: R503 XMU
HEIGHT 1.22 IN
LENGTH: 13.80 IN
WIDTH: 11.00 IN

WEIGHT: 6.90 LBS

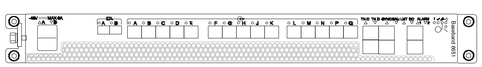


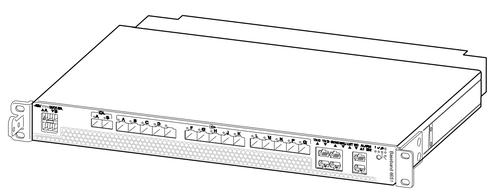
7 XMU
N.T.S

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE

EQUIPMENT SPECIFICATIONS

MANUFACTURER: ERICSSON
MODEL: BASEBAND 6651
HEIGHT: 1.7 IN
WIDTH: 19 IN
DEPTH: 15.1 IN
WEIGHT: 17.60 LBS





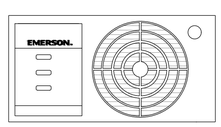
4 BASEBAND 6651
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

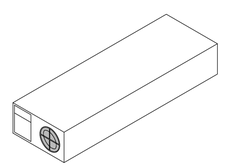
EQUIPMENT SPECIFICATIONS

MFG: EMERSON
MODEL: R48-2000E3
HEIGHT: 1.70 IN
WIDTH: 3.30 IN
DEPTH: 9.90 IN

WEIGHT: 2.49 LBS



FRONT VIEW



ISOMETRIC VIEW

1 RECTIFIER MODULE
N.T.S.

APPLICANT:
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:
P. MARSHALL & ASSOCIATES
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1000 HOLCOMB WOODS PKWY, STE 210
ROSWELL, GA 30076
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5707 HIGHLAND ROAD
SAN RAMON, CA 94583

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0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:
REGISTERED PROFESSIONAL ENGINEER JOSEPH A. PITZER 81603 CIVIL STATE OF CALIFORNIA
SIGNED: 2024/11/11
EXPIRES: 2025/09/30
It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:
D-2

SHEET NAME:
DETAILS

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

CERTIFICATION: UL LISTED
INTERRUPT RATING: 10 kAIC
BUS RATING: 400 A
NUMBER OF WIRES: 3
LINE LUG SIZE: #4 - 600 MCM
DEGREE OF PROTECTION: 3R

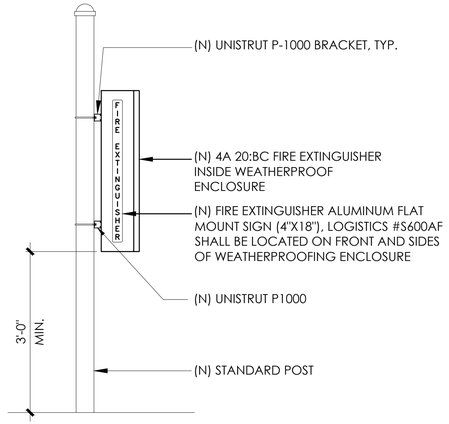
EQUIPMENT SPECIFICATIONS

MFG: EATON
MODEL: R11048 HC
HEIGHT 22 IN
LENGTH: 48 IN
WIDTH: 6 IN

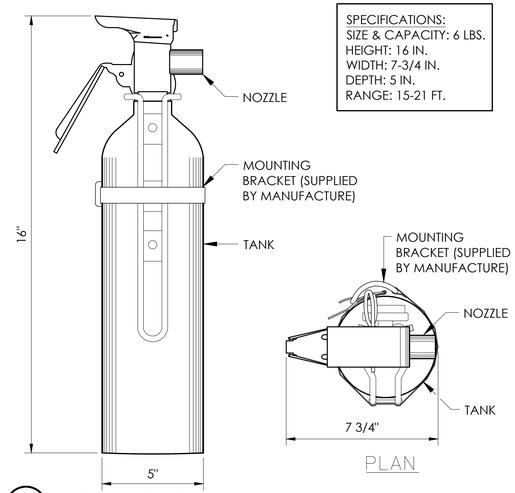
WEIGHT: 120 LBS

400 - 800 Amp

12 BUSS GUTTER DETAIL
N.T.S.

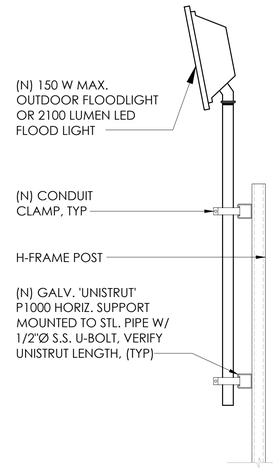


9 FIRE EXTINGUISHER MOUNTING
N.T.S.



SPECIFICATIONS:
SIZE & CAPACITY: 6 LBS.
HEIGHT: 16 IN.
WIDTH: 7-3/4 IN.
DEPTH: 5 IN.
RANGE: 15-21 FT.

6 FIRE EXTINGUISHER DETAIL
N.T.S.



3 SERVICE LIGHT DETAIL
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

COMPLIANCES: EUSERC APPROVED
AMPERAGE RATING: 400 A
INTERRUPT RATING: 42 kAIC
NUMBER OF WIRES: 3
LINE LUG SIZE: 2 STUDS
LOAD LUG SIZE: #6 - 600 MCM
DEGREE OF PROTECTION: 3R

EQUIPMENT SPECIFICATIONS

MFG: EATON
MODEL: R9000 C
HEIGHT 44 IN
LENGTH: 12 IN
WIDTH: 7 IN

WEIGHT: 52 LBS

100 - 1200 Amp

R9000EE (closed) R9000EE (open)

11 TERMINATION CAN DETAIL
N.T.S.

8 EQUIPMENT MOUNTING DETAIL
N.T.S.

5 GPS MOUNTING DETAIL
N.T.S.

MOUNTING NOTES:
1. FOR SOLID GROUTED CONCRETE WALL USE: 3/8"Ø 'HILTI' KB-TZ STAINLESS STEEL W/ 3-1/8" MIN. EMB (ESR-1917, LARR#25701)
2. FOR SOLID CMU MASONRY BLOCK WALL USE: 1/2"Ø HILTI HIT HY-70 WITH 4 1/2" EMB @ 16" O.C. (ESR-2682)
3. FOR TIMBER FRAME WALL USE: 1/2"Ø LAG BOLT WITH 2" MIN THREAD PENETRATION @ EVERY STUD.
4. FOR METAL STUD WALL USE: #10 TEK SCREW @ EACH METAL STUD

2 EQUIPMENT MOUNTING DETAIL
N.T.S.

SQUARE D

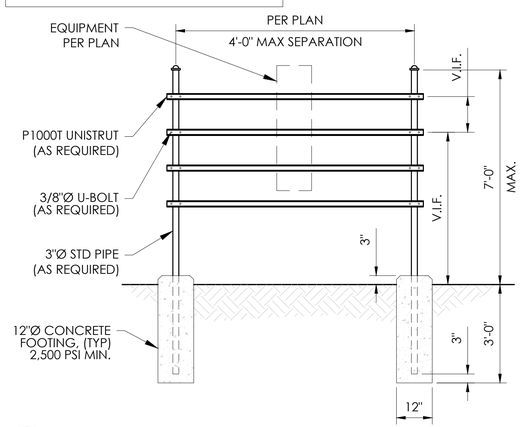
Meter socket, ringed, 1 phase, 3 wire, 225A, 5 jaws, 120/240VAC, Series A, test block bypass, EUSERC

EMT1225CB

Meter socket rated current	225 A
Number of jaws	5
Bypass type	Test block bypass
Phase	1 phase
[Ue] rated operational voltage	120/240 V AC
Enclosure Material	Steel
Electrical connection	Lugs
Service feed location	OH UG
Wiring configuration	3-wire
Device mounting	Flush
AWG gauge	AWG 6...300 kcmil aluminium/copper)
Height	30.00 in (762.0000000000 mm)
Width	22.44 in (569.98 mm)
Depth	7.50 in (190.50 mm)

10 200AMP METER DETAIL
N.T.S.

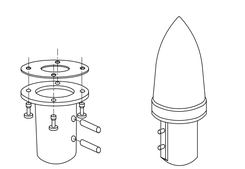
NOTE:
1. ALL NEW EQUIPMENT TO BE MOUNTED PER MANUFACTURER SPECIFICATIONS



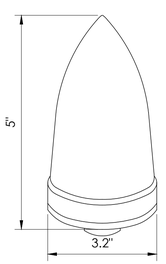
7 H-FRAME DETAIL
N.T.S.

PCTEL GPS ANTENNA GPS-TMG-HR-26N

DIMENSIONS, HxD:	126x81mm (5.0"x3.2")
WEIGHT, WITH PRE-MOUNTED BRACKETS:	0.6 lbs
CONNECTOR:	N, FEMALE (ONE - BOTTOM FED)
MOUNTING:	FIT PIPES 1" - 1.45" (25 - 37mm)
FREQUENCY BAND	1575.42 +/- 1.2MHz



GPS-TMG-MNT-R GPS-TMG-HR-26NCM



GPS-TMG-HR-26N

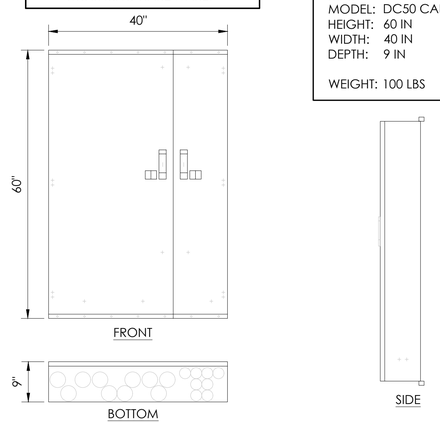
4 GPS SPECIFICATIONS
N.T.S.

NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

EQUIPMENT SPECIFICATIONS

MFG: VERTIV
MODEL: DC50 CABINET
HEIGHT: 60 IN
WIDTH: 40 IN
DEPTH: 9 IN

WEIGHT: 100 LBS



1 DC50 CABINET SPECIFICATIONS
N.T.S.

APPLICANT:
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:
PM&A
P. MARSHALL & ASSOCIATES
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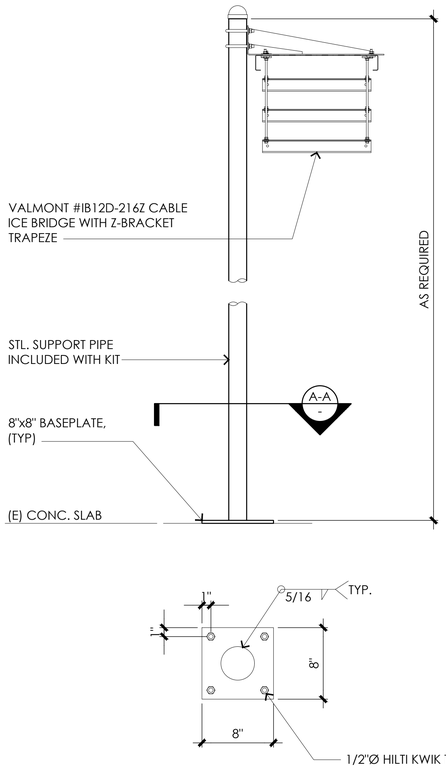
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:
REGISTERED PROFESSIONAL ENGINEER JOSEPH FITZSIMONS 81602 CIVIL STATE OF CALIFORNIA
SIGNED: 2024/11/11
EXPIRES: 2025/09/30

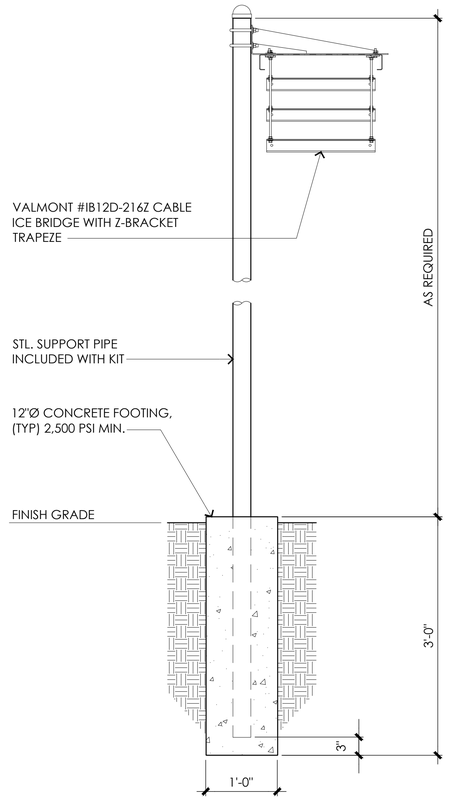
SHEET TITLE:
D-3

SHEET NAME:
DETAILS



SECTION A-A

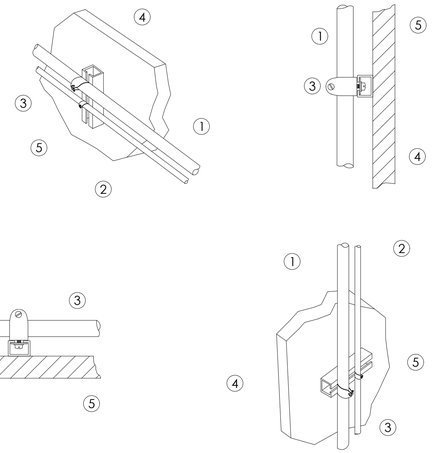
11 CABLE BRIDGE DETAIL
N.T.S.



8 CABLE BRIDGE DETAIL
N.T.S.

①	CONDUIT FOR ELECTRIC/TELEPHONE OR FIBER
②	#2 AWG STRANDED INSULATED GROUNDING CONDUCTOR TO RUN ALONG HYBRID CABLE
④	EXISTING FLOOR/CEILING/WALL
⑤	P1000 UNISTRUT (LENGTH BASED ON NUMBER OF CONDUITS TO BE MOUNTED - FIELD TO DECIDE) (SEE MOUNTING NOTES)

MOUNTING NOTES:
1. FOR SOLID GROUTED CONCRETE WALL USE: 3/8"Ø 'HILTI' KB-TZ STAINLESS STEEL W/ 3-1/8" MIN. EMB (ESR-1917, LARR#25701)
2. FOR SOLID CMU MASONRY BLOCK WALL USE: 1/2"Ø HILTI HIT HY-70 WITH 4 1/2" EMB @ 16" O.C. (ESR-2682)
3. FOR TIMBER FRAME WALL USE: 1/4"Ø LAG BOLT WITH 2" MIN THREAD PENETRATION @ EVERY STUD.
4. FOR METAL STUD WALL USE: #10 TEK SCREW @ EACH METAL STUD



1. CONDUIT:

A) ELECTRICAL METALLIC TUBING SHALL U.L. LABEL, FITTINGS SHALL BE COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS AND ROOFTOPS.

B) FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.

C) CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.

D) ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE

E) ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.

F) CONDUITS RUN ON ROOFS SHALL BE INSTALLED ON DURA-BLOK ROOFTOP SUPPORTS BY COOPER B-LINE.

G) *RIGID SHALL BE USED IN LOCATIONS OF POTENTIAL DAMAGE AND/OR CRUSH. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.

4 CONDUIT MOUNTING DETAIL
N.T.S.

3931 SERVICE DELIVERY SWITCH

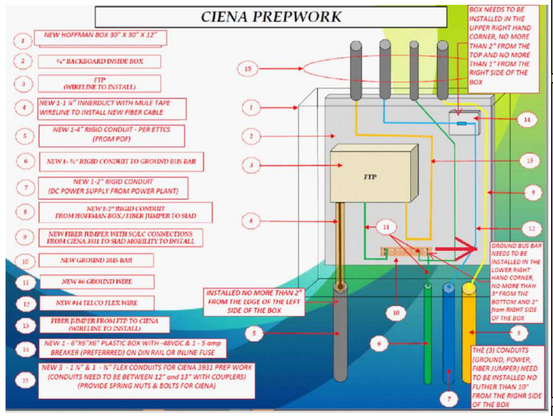
MAC Address Table Capacity
32,000 MAC addresses

Power Requirements
DC Input: -48, -24, +24 VDC (nominal)
AC Input: 100V, 240V AC (nominal)
AC Frequency: 50/60 Hz
Maximum Power Input: 60 W

Agency Approvals
Safety: UL/CSA 60950-1-07; IEC 60950-1:2005 (2nd edition); EN 60950-1:2006
Emissions: FCC Part 15 (2009); EN55022 (2006 +A1 2006); AS/NZS CISPR 22 (2006); CISPR 22 (2005 + A1 2005); ICES-003 Issue 4 (2004); EN 61000-3-2 (2006); EN 300 386 (v1.4.1, 2008); EN 300 132-2 (2007-10); EN 300 132-3 (2003-08)
Environmental: WEEE 2002/96/EC RoHS 2002/95/EC
Immunity: CISPR 24 (1997, +A1 2001 + A2 2002); EN 55024 (1998 + A1 2001 + A2 2003); EN 300 386 (v1.4.1, 2008); EN 61000-4-11 (2005); EN 61000-3-3 (2008); EN 300 132-2 (2007-10) ; EN 300 132-3 (2003-08)
Laser Safety: CDRH Letter of Approval (US FDA Approval); FCC 21 CFR subpart (J) (Safety of Laser Products); IEC 60825-1:2007

Environmental Characteristics
GR-63-CORE, Issue 3 – NEBS Level 3
GR-1089 Issue 5 – NEBS Level 3
GR-950 Issue 2 Optical Network Unit
GR-3108 Issue 2 Network Equipment in the Outside Plant (OSP) Class 4
ETSI 300 019 Class 1.2, 2.2, 4.1
Operating Temperature:
-40°F to +158°F (-40°C to +70°C)
-40°F to +115°F + Solar Load
(-40°C to +46°C + Solar Load)
Storage Temperature:
-40°F to +158°F (-40°C to +70°C)
Relative Humidity: 5% to 100% (condensing)

Physical Characteristics
Enclosure Dimensions:
16.8"(W) x 17.0"(H) x 7.0"(D)
427mm (W) x 431mm (H) x 178mm (D)
Product weight: 13.0 kg; 28.6 lbs



NOTES:

1. 30"X30"X12" HOFFMAN BOX MOUNTED NEXT TO OR BELOW EQUIPMENT LOCATION.
2. 3/4 " BACKBOARD IN BOX
3. POWER LEADS MUST BE IN FLEX CONDUIT
4. 6"X6"X4" PLASTIC BOX MOUNTED ON RIGHT SIDE OF BACKBOARD
5. TERMINATION BLOCK TO BE PLACED IN 6X6 WITH FUSE
6. RUN GROUND WIRE ALONG OUTSIDE EDGE ON RIGHT SIDE OF BOX. MOVE GROUNDING BUSS TO RIGHT SIDE IF NECESSARY.
7. STUB OUT FLEX CONDUIT FROM TOP OF BOX TO MATCH 3931 CONDUIT POORTS.STUBS SHOULD BE 10 TO 12 INCHES IN LENGTH.
8. CARRIER WILL TERMINATE P[OWER ON ONE SIDE OF TERMINATION BLOCK. AT&T WILL TERMINATE ON THEIR SIDE, AND POP IN FUSE
9. FUSE SHOULD BE LEFT IN BOX PRIOR TO TURN UP

1 CIENA CABINET AND HOFFMAN BOX SPECIFICATION
N.T.S.

FCA243624-00006
FIBERGLASS / POLYMER CONCRETE ASSEMBLY
24" X 36" X 24"
(FOR ACTUAL DIMENSIONS SEE DRAWINGS)

FIBERGLASS / POLYMER CONCRETE ASSEMBLY, STRAIGHT SIDES, NO FLOOR, WUC 3.6-"20K," 3/8" HEX BOLTS, STANDARD NAMEPLATE (SPECIFY AT TIME OF ORDER) INSTALLED

LOAD RATINGS
INCIDENTAL TRAFFIC - PARKING LOT, SIDEWALK CONFORMS TO:
- WUC 3.6
- ASTM C 857
- ANSI/SCTE 77

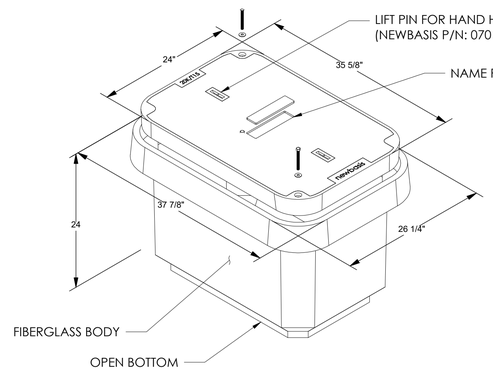
Features:
- USDA/RUS APPROVED
- DROP-IN NAMEPLATE
- SHIPPED ASSEMBLED
- SKID RESISTANT COVER
- STAINLESS STEEL BOLTS
- CAST-IN FLOATING NUT BOX

-INTEGRAL DRAIN HOLES

ADDITIONAL PRODUCT INFORMATION

Inside Dimensions		
Length	Width	Depth
33 1/8"	22 1/2"	21"
28 1/16"	16 1/2"	

newbasis



10 HAND HOLE DETAIL
N.T.S.

APPLICANT:
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:
PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:
CCL04383
5707 HIGHLAND ROAD
5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

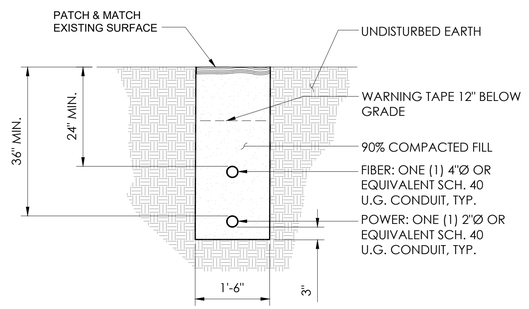
PROFESSIONAL STAMP:
REGISTERED PROFESSIONAL ENGINEER
JOSEPH FITZSIMONS
81603
CIVIL
STATE OF CALIFORNIA
SIGNED: 2024/11/11
EXPIRES: 2025/09/30
It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:
D-4

SHEET NAME:
DETAILS

12 NOT USED
N.T.S.

NOTE:
1. VERIFY (E) CONDUIT LOCATION AND CONDITION. DO NOT DAMAGE (E) CONDUIT

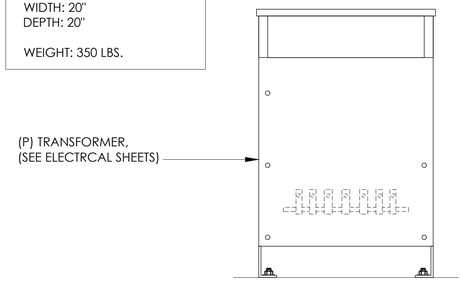


9 JOINT UTILITY TRENCH
N.T.S.

SPECIFICATIONS

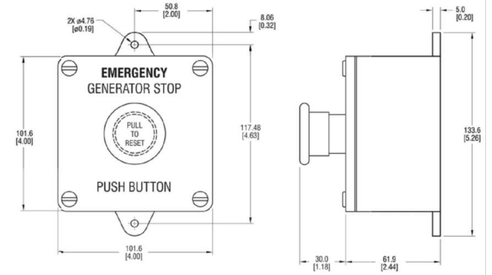
MANUFACTURER: SQUARED
CATNO: 50534 (OR EQUAL)
HEIGHT: 30"
WIDTH: 20"
DEPTH: 20"

WEIGHT: 350 LBS.



6 TRANSFORMER DETAIL
N.T.S.

REMOTE EMERGENCY STOP SWITCH SURFACE MOUNT, H-PANEL



- MANUFACTURER: PILLA ELECTRICAL PRODUCTS, INC.
- MODEL SG120
- GENERAC PART NUMBER 061129E
- SURFACE MOUNT, NEMA 4X
- NONMETALLIC BACKBOX

[DIMENSIONS: mm][INCHES]

3 REMOTE EMERGENCY STOP SWITCH DETAIL
N.T.S.

11 NOT USED
N.T.S.

10 NOT USED
N.T.S.

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

Standby Power Rating
30 kW, 38 kVA, 60 Hz

Prime Power Rating*
27 kW, 34 kVA, 60 Hz

*EPA Certified Prime ratings are not available in the US or its Territories

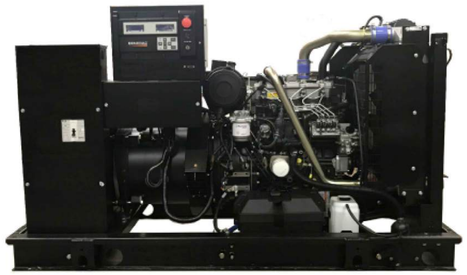


Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL6200, UL1236, UL489, UL142
- CSA C22.2, ULC S601
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41

Powering Ahead

For over 60 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

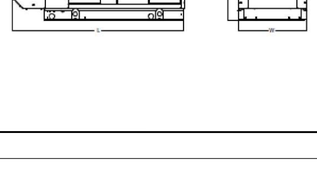
Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

7 GENERATOR SPECIFICATIONS
N.T.S.

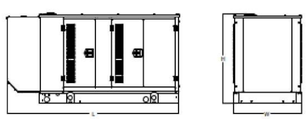
SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*



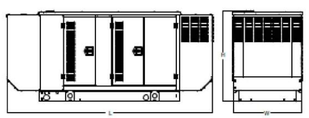
OPEN SET

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,456 - 1,641 (661 - 745)
19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	1,936 - 2,121 (879 - 963)
47	132 (500)	76.0 (1,930) x 37.4 (950) x 69.8 (1,773)	2,166 - 2,351 (983 - 1,067)
67	190 (719)	76.0 (1,930) x 37.4 (950) x 79.3 (2,014)	2,380 - 2,565 (1,081 - 1,165)
75	211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,375 - 2,560 (1,078 - 1,162)
107	300 (1,136)	92.9 (2,360) x 37.4 (950) x 85.3 (2,167)	2,438 - 2,623 (1,106 - 1,190)



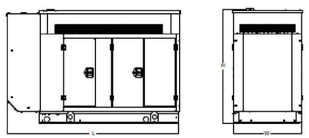
WEATHER PROTECTED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)		
47	132 (500)	106.0 (2,692) x 38.0 (965) x 84.0 (2,134)	372 (169)	241 (109)
67	190 (719)	94.8 (2,409) x 38.0 (965) x 84.0 (2,134)		
75	211 (799)	76.0 (1,930) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	92.9 (2,360) x 38.0 (965) x 90.0 (2,287)		



LEVEL 1 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,588)		
47	132 (500)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)	505 (229)	338 (153)
67	190 (719)	112.5 (2,857) x 38.0 (965) x 84.0 (2,134)		
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 90.0 (2,287)		



LEVEL 2 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)		
47	132 (500)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)	510 (231)	341 (155)
67	190 (719)	106.0 (2,692) x 38.0 (965) x 84.0 (2,134)		
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 90.0 (2,287)		

APPLICANT:
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:
PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY, STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:
CCL04383
5707 HIGHLAND ROAD
5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

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A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:
REGISTERED PROFESSIONAL ENGINEER JOSEPH A. FITZPATRICK 81602 CIVIL STATE OF CALIFORNIA
SIGNED: 2024/11/11
EXPIRES: 2025/09/30
It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:
D-5

SHEET NAME:
DETAILS

12 NOT USED
N.T.S.

9 NOT USED
N.T.S.

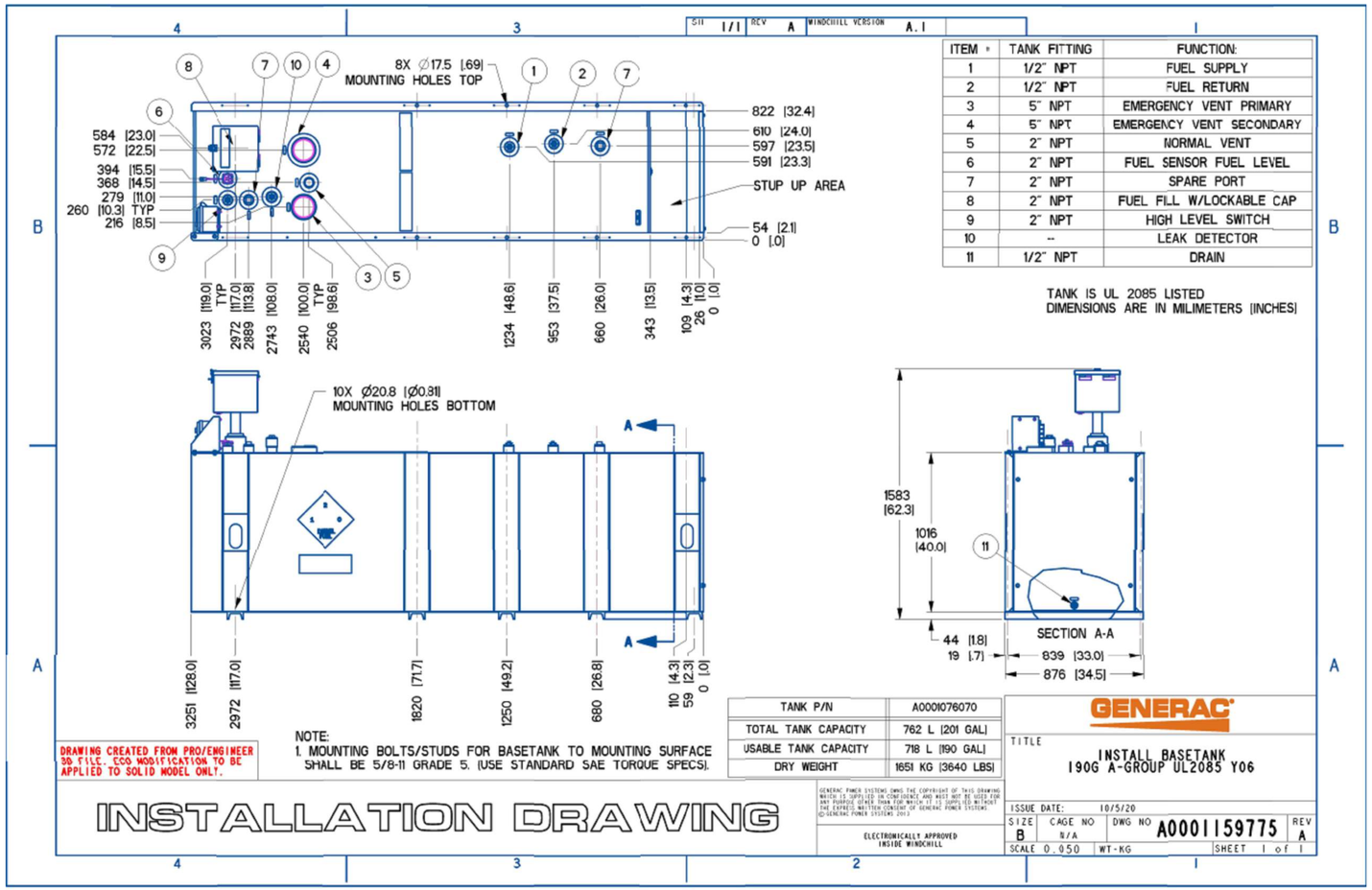
6 NOT USED
N.T.S.

3 NOT USED
N.T.S.

11 NOT USED
N.T.S.

10 NOT USED
N.T.S.

7 GENERATOR TANK SPECIFICATIONS
N.T.S.



ITEM #	TANK FITTING	FUNCTION:
1	1/2" NPT	FUEL SUPPLY
2	1/2" NPT	FUEL RETURN
3	5" NPT	EMERGENCY VENT PRIMARY
4	5" NPT	EMERGENCY VENT SECONDARY
5	2" NPT	NORMAL VENT
6	2" NPT	FUEL SENSOR FUEL LEVEL
7	2" NPT	SPARE PORT
8	2" NPT	FUEL FILL W/LOCKABLE CAP
9	2" NPT	HIGH LEVEL SWITCH
10	--	LEAK DETECTOR
11	1/2" NPT	DRAIN

TANK IS UL 2085 LISTED
DIMENSIONS ARE IN MILIMETERS [INCHES]

TANK P/N	A0001076070
TOTAL TANK CAPACITY	762 L [201 GAL]
USABLE TANK CAPACITY	718 L [190 GAL]
DRY WEIGHT	1651 KG [3640 LBS]

DRAWING CREATED FROM PRO/ENGINEER 3D FILE. ECO MODIFICATION TO BE APPLIED TO SOLID MODEL ONLY.

NOTE:
1. MOUNTING BOLTS/STUDS FOR BASETANK TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5. (USE STANDARD SAE TORQUE SPECS).

ELECTRONICALLY APPROVED
INSIDE WINDCHILL

INSTALLATION DRAWING

GENERAC

TITLE
INSTALL BASETANK
190G A-GROUP UL2085 Y06

ISSUE DATE: 10/5/20

SIZE	CAGE NO	DWG NO	REV
B	N/A	A0001159775	A

SCALE 0.050 | WT-KG | SHEET 1 of 1

APPLICANT:

AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
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1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:

CCL04383

5707 HIGHLAND ROAD

5707 HIGHLAND ROAD
SAN RAMON, CA 94583

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0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER JOSEPH A. FITZSIMMONS 81603 CIVIL STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

SHEET TITLE:

D-6

SHEET NAME:

DETAILS

12 NOT USED
N.T.S.

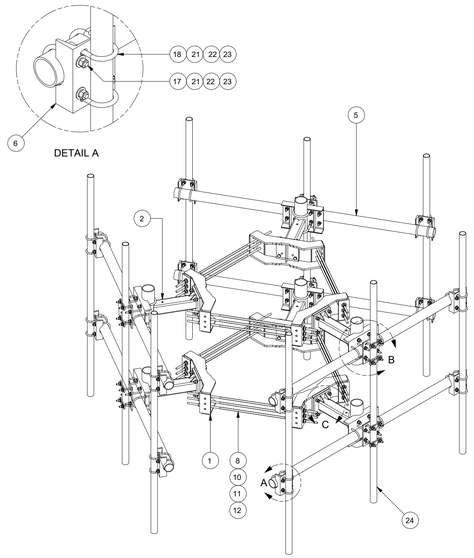
9 NOT USED
N.T.S.

11 NOT USED
N.T.S.

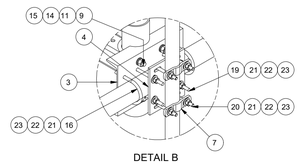
8 NOT USED
N.T.S.

10 NOT USED
N.T.S.

7 NOT USED
N.T.S.



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-LWRM	RING MOUNT WELDMENT		68.81	412.85
2	6	X-SV197-18	SUPPORT ARM WELDMENT - 18"		45.69	274.15
3	6	X-SP216	LARGE SUPPORT CROSS PLATE		22.08	132.46
4	6	SCX3	CROSSOVER PLATE	9.250 in	7.19	43.13
5	6	P396	3-1/2" X 96" (3" SCH 40) GALVANZIED PIPE	96.000 in	60.75	364.49
6	12	X-SP219	SMALL SUPPORT CROSS PLATE	8.250 in	8.61	103.33
7	12	X-100064	CLAMP (4" V-CLAMP) GALVANIZED		0.92	11.06
8	18	G58R-48	5/8" X 48" GALV THREADED ROD		4.39	79.03
8	18	G58R-24	5/8" x 24" THREADED ROD (HDG.)		2.09	37.63
9	12	X-UB5458	5/8" X 4-5/8" X 7" X 3" U-BOLT (HDG.)		1.54	18.42
10	36	G58FW	5/8" HDG USS FLATWASHER	.122	0.07	2.54
11	84	G58LW	5/8" HDG LOCKWASHER		0.03	2.19
12	36	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	4.68
13	24	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2.75	0.36	8.54
14	24	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.82
15	48	A58NUT	5/8" HDG A325 HEX NUT		0.13	6.23
16	12	X-UB1358	1/2" X 3-5/8" X 5-1/2" X 3" U-BOLT (HDG.)		0.77	9.27
17	24	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.83	19.88
18	24	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	15.00
19	24	G12R-8	1/2" x 8" THREADED ROD (HDG.)		0.45	10.71
20	24	G12045	1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD	4.5	0.30	7.15
21	216	G12FW	1/2" HDG USS FLATWASHER	0.095	0.03	7.36
22	192	G12LW	1/2" HDG LOCKWASHER	.125	0.01	2.67
23	192	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	13.75
24	9	A	B	C	D	E



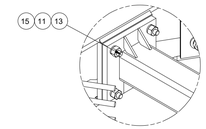


TABLE					
"ASSEMBLY NO."	PART NO. "A"	PART DESCRIPTION "B"	LENGTH "C"	UNIT WT. "D"	TOTAL WT. "E"
RMVD8-296-18	P296	2-3/8" O.D. SCH. 40 PIPE	96"	29.22	1,880.76
RMVD8-2120-18	P2120	2-2/8" O.D. SCH. 40 PIPE	120"	36.53	1,936.65

TOLERANCE NOTES

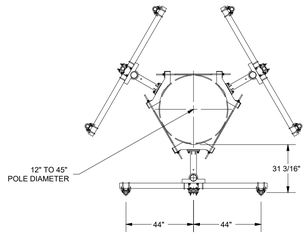
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

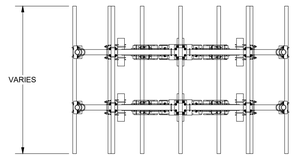
PROPRIETARY NOTE:
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION: 8' DOUBLE MONOPOLE TRIPLE T-ARM W/ 2-3/8" ANTENNA PIPES & 18" STANDOFF

SITE PRO 1 — Engineering Support Team: 1-888-753-7446 — Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX
A valmont COMPANY

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	CMFL 11/23/2021	11/13/2020	RMVD8-2XX-18	1 OF 2
CLASS / SUB: 87 / 02	DRAWING USAGE: CUSTOMER	CHECKED BY: BMC 11/13/2020	DWG. NO.: RMVD8-2XX-18	





TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

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A valmont COMPANY

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	CMFL 11/23/2021	11/13/2020	RMVD8-2XX-18	2 OF 2
CLASS / SUB: 87 / 02	DRAWING USAGE: CUSTOMER	CHECKED BY: BMC 11/13/2020	DWG. NO.: RMVD8-2XX-18	

4 8' DOUBLE MONOPOLE TRIPLE ARM MOUNT, SITEPRO1 RMVD8-2120-18
N.T.S

APPLICANT:

AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY, STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:

CCL04383

5707 HIGHLAND ROAD

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SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION
A	09/24/24	ISSUED FOR 90%CD'S
B	10/30/24	ISSUED FOR 95%CD'S
0	11/11/24	ISSUED FOR 100%CD'S

INT. BH SMR SMR

PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER — JORDAN C. MARTIN — 81602 — CIVIL — STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

SHEET TITLE:

D-7

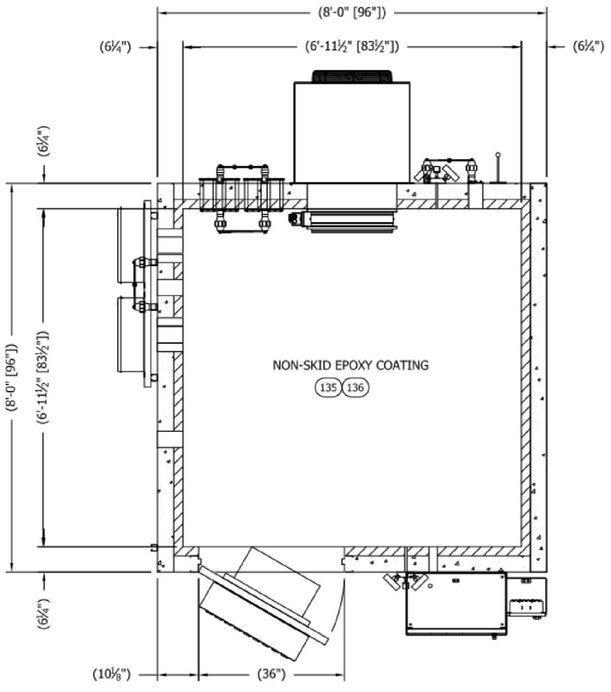
SHEET NAME:

DETAILS

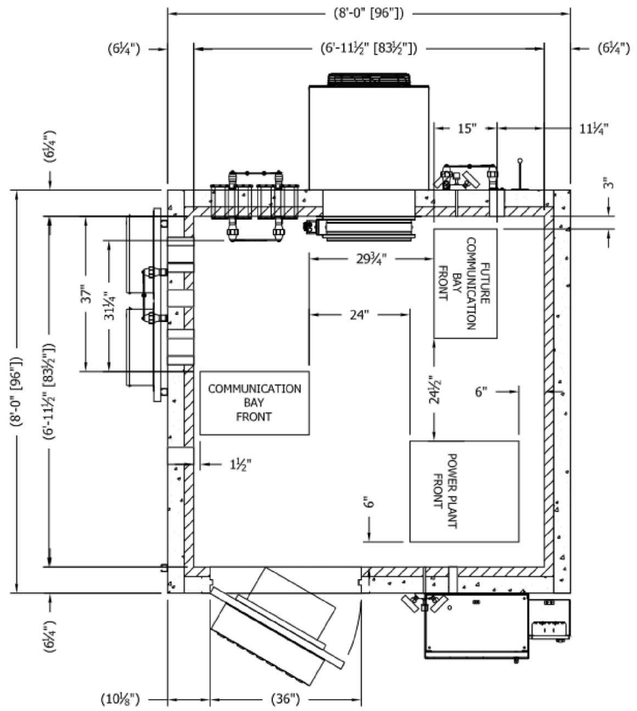
Sabre Industries™
INNOVATION DELIVERED

SHELTER DIMENSIONS: 8'-0"W X 8'-0"L
SHIPPING DIMENSIONS: 10'-11 5/8"W X 9'-3/4"L X 9'-4 1/2"H - (Old Style HVAC)
SHIPPING DIMENSIONS:11'-8 5/16"W X 9'-3/4"L X 9'-4 1/2"H – (New Style HVAC)
SHELTER WEIGHT (SHELTER ONLY): 21,500
SHELTER WEIGHT (WITH EQUIPMENT): 25,000

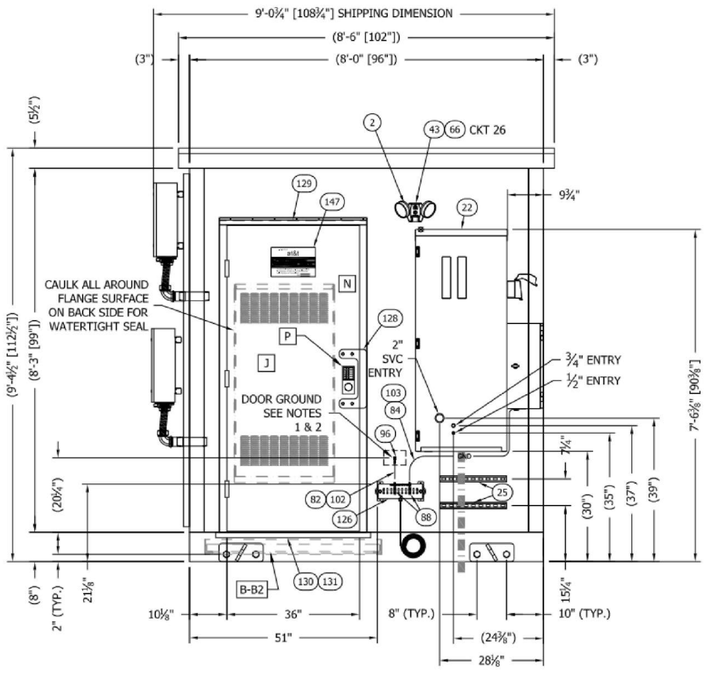
SHELTER BY CELLXION (SABRE)
MODEL #: SATN70

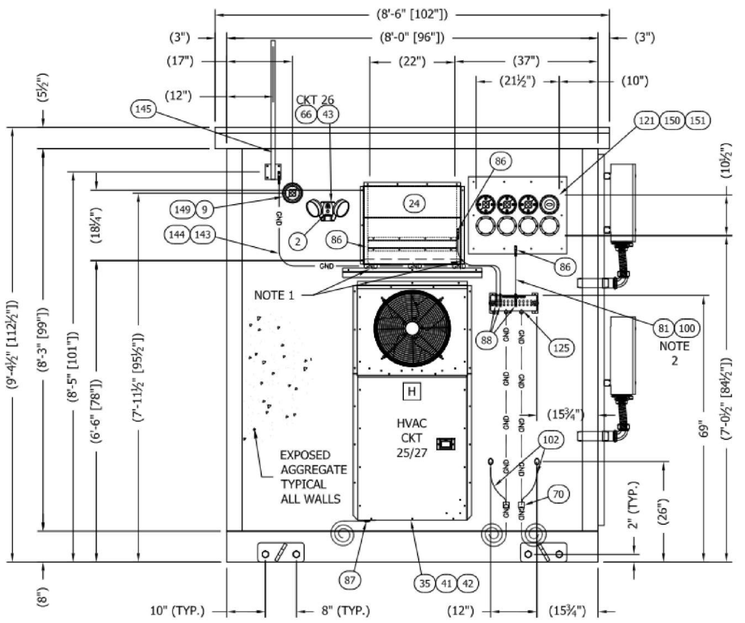


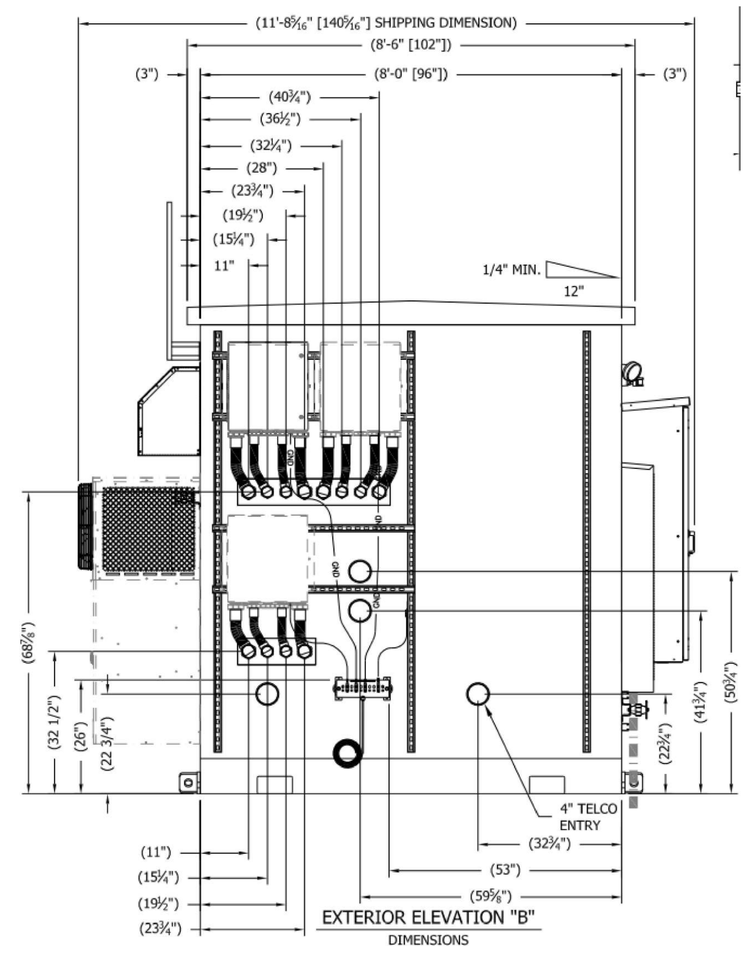
FLOOR PLAN
64.00 SQ. FT. EXTERIOR BUILDING AREA
48.42 SQ. FT. INTERIOR BUILDING AREA



EQUIPMENT LAYOUT PLAN







EXTERIOR ELEVATION "B"
DIMENSIONS

1 CWIC (SATN70) SHELTER SPECIFICATIONS
N.T.S.

APPLICANT:
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:
PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:
CCL04383
5707 HIGHLAND ROAD
5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:
REGISTERED PROFESSIONAL ENGINEER JOSEPH A. FITZGERALD 81603 CIVIL STATE OF CALIFORNIA
SIGNED: 2024/11/11
EXPIRES: 2025/09/30
It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:
D-8

SHEET NAME:
DETAILS

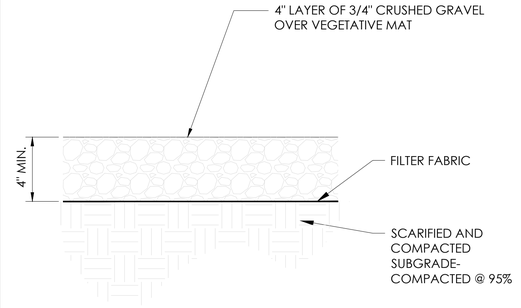
12 NOT USED
N.T.S.

9 NOT USED
N.T.S.

FIRE DEPARTMENT NOTES:

- ALL EXTERIOR EQUIPMENT SHALL BE PAINTED BEIGE.
- A FIRE DEPARTMENT INSPECTION IS REQUIRED BEFORE THE FUEL CAN BE PLACED INTO THE TANK AND THE GENERATOR IS USED.
- LABEL ABOVE GROUND TANK ON BOTH SIDES AND OR TANK ENCLOSURE WITH "XX GALLONS DIESEL FUEL - COMBUSTIBLE LIQUID - NO SMOKING" OR PROVIDE SIGNAGE INDICATING THE SAME.
- INSTALL HAZARD IDENTIFICATION SIGNS AS SPECIFIED IN NFPA 704 AT THE ENTRANCES TO LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED, AND ON STATIONARY ABOVE-GROUND TANKS.
- ADDITIONAL PERMIT AND FEES REQUIRED FOR ABOVE GROUND STORAGE TANK

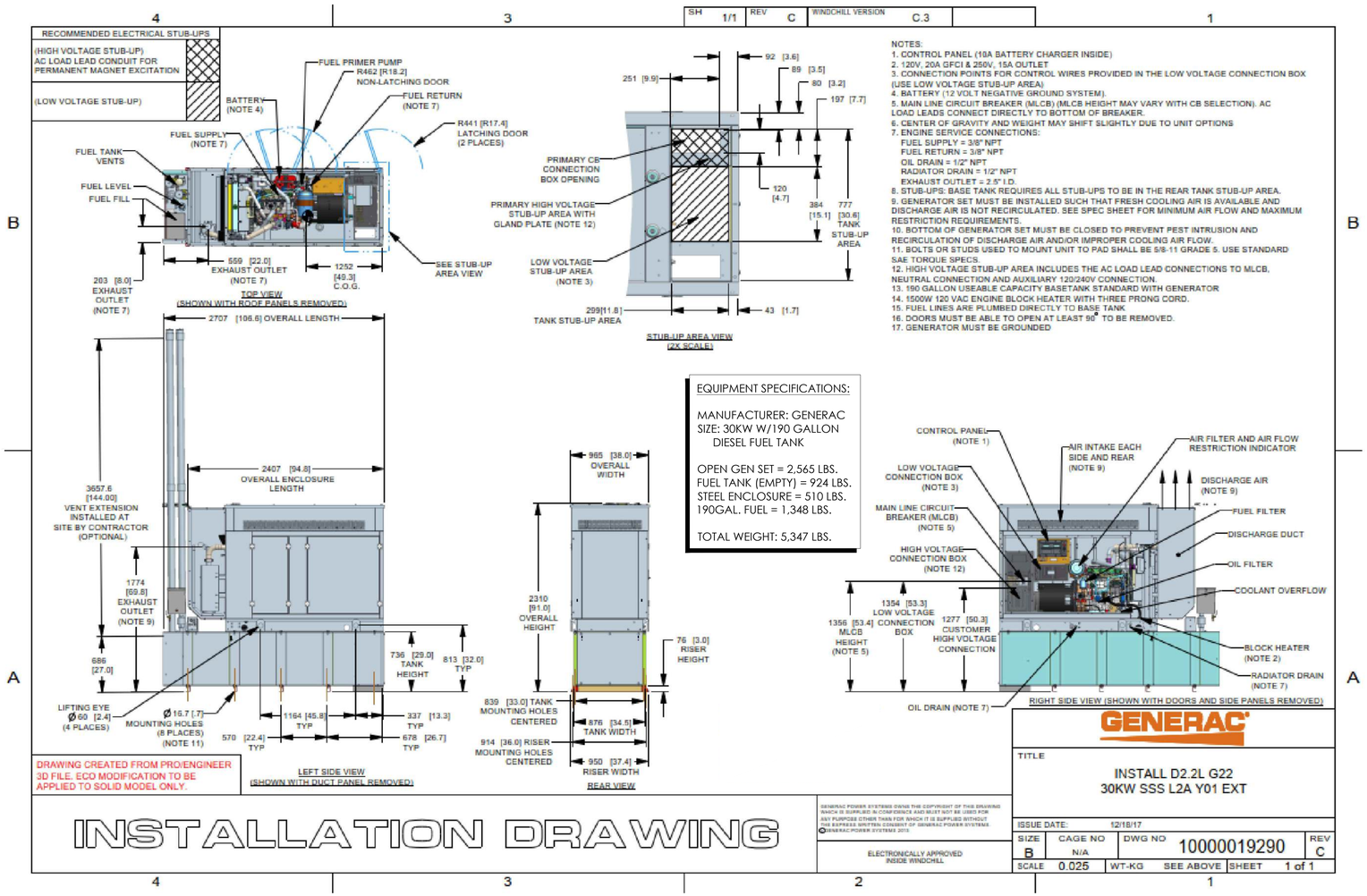
6 FIRE DEPARTMENT NOTES
N.T.S.



3 GRAVEL DETAIL
N.T.S.

11 NOT USED
N.T.S.

10 NOT USED
N.T.S.



7 GENERATOR SPECIFICATIONS
N.T.S.

APPLICANT:

AT&T

5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
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0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. TITZER 81604 CIVIL STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:

D-9

SHEET NAME:

DETAILS

STRUCTURAL NOTES

A. STRUCTURAL DESIGN CRITERIA

1. THE STRUCTURAL DESIGN HAS BEEN PERFORMED IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE (BUILDING CODE).
2. WIND DESIGN DATA

ULTIMATE WIND SPEED	V = 93 mph
RISK CATEGORY	II
EXPOSURE CATEGORY	C

3. SEISMIC DESIGN DATA

RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR	I_E = 1.0
MAPPED SPECTRAL ACCELERATION	S_S = 2.06
MAPPED SPECTRAL ACCELERATION	S_1 = 0.676
SITE CLASS	D
DESIGN SPECTRAL ACCELERATION	S_{DS} = 1.648
DESIGN SPECTRAL ACCELERATION	S_{D1} = 0.766
SEISMIC DESIGN CATEGORY	D

B. GENERAL

1. SPECIFIC NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
2. STRUCTURAL DRAWINGS SHALL NOT BE SCALED. COORDINATE DIMENSION, ELEVATION, SLOPE, AND DRAINAGE REQUIREMENTS WITH THE ARCHITECTURAL DRAWINGS.
3. STANDARDS REFERENCED ON THE STRUCTURAL DRAWINGS REFER TO THE EDITION APPLICABLE UNDER THE APPLICABLE BUILDING CODE.
4. THE RESPONSIBILITY FOR THE REVIEW AND COORDINATION OF DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF RELATED CONSTRUCTION SHALL BEAR ON THE CONTRACTOR. DISCREPANCIES THAT EXIST SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER, PRIOR TO START OF RELATED CONSTRUCTION.
5. WORK PERFORMED IN CONFLICT WITH THE STRUCTURAL DRAWINGS OR APPLICABLE BUILDING CODE REQUIREMENTS SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
6. EXISTING CONDITIONS SHALL BE VERIFIED BEFORE STARTING RELATED WORK. EXISTING CONDITIONS THAT ARE NOT REFLECTED ON THE STRUCTURAL DRAWINGS OR THAT DEVIATE FROM THE MAXIMUM OR MINIMUM DIMENSIONS INDICATED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER. SUCH CONDITIONS MAY INCLUDE CONFLICT IN GRADES, ADVERSE SOIL CONDITIONS, PRESENCE OF GROUND WATER, UNCOVERED OR UNEXPECTED EXISTING CONSTRUCTION CONFIGURATIONS, ETC.
7. MATERIALS AND WORKMANSHIP SHALL CONFORM TO REQUIREMENTS OF APPLICABLE REGULATIONS AND THE BUILDING CODE AS AMENDED AND ADOPTED BY THE BUILDING OFFICIAL.
8. LOADS TO THE BUILDING AND/OR EXISTING STRUCTURES EXCEEDING THE LOADS INDICATED ON THE PLANS, OR ANY LOADS EXCEEDING 400 POUNDS THAT ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO THE ENGINEER.

C. TEMPORARY WORK AND SITE SAFETY

1. THE STRUCTURAL DRAWINGS SHOW THE REQUIREMENTS FOR THE COMPLETED STRUCTURE ONLY. TEMPORARY WORKS REQUIRED TO COMPLETE THE CONSTRUCTION PROCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OR FIELD VERIFICATION OF TEMPORARY AND ANCILLARY WORK.
2. THE RESPONSIBILITY FOR SAFETY IN AND AROUND THE JOBSITE SHALL BEAR ON THE CONTRACTOR. PROPER AND SAFE METHODS OF CONSTRUCTION SHALL BE EMPLOYED AT ALL TIMES INCLUDING THE STABILIZING OF INCOMPLETE STRUCTURES, FORMWORK, SHORING, RESHORING, FALSEWORK, PLATFORMS, SCAFFOLDING, BARRIERS, WALKWAYS, ETC. AND INCLUDING CONTROL OF THE INTENSITY, DURATION AND LOCATION OF CONSTRUCTION LOADS.
3. THE RESPONSIBILITY FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, UNDERPINNING, AND SHORING REQUIRED TO SAFELY RETAIN ALL GRADES AND STRUCTURES SHALL BEAR ON THE CONTRACTOR.
4. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON A STRUCTURE. LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD INDICATED. WHERE THE STRUCTURE HAS NOT ATTAINED FINAL DESIGN STRENGTH, ADEQUATE SHORING AND OR BRACING SHALL BE INSTALLED.

D. FOUNDATIONS

1. A SOILS REPORT WAS NOT MADE AVAILABLE FOR THIS PROJECT.
2. THE ENGINEER OF RECORD HAS CLASSIFIED THE UNDISTURBED NATIVE SOILS TO BE CLASS 5 MATERIAL. IN ACCORDANCE WITH TABLE 1806.2 OF THE BUILDING CODE, AN ALLOWABLE FOUNDATION BEARING PRESSURE OF 1,500 psf HAS BEEN ASSIGNED FOR THE DESIGN OF FOUNDATIONS RELATED TO THIS PROJECT.
3. IF THE BUILDING OFFICIAL OR CONTRACTOR SUSPECTS FILL MATERIAL, EXPANSIVE SOIL OR GEOLOGIC INSTABILITY UPON OBSERVATION OF THE FOUNDATION EXCAVATIONS, A GEOLOGICAL INVESTIGATION REPORT AND CONSTRUCTION DRAWINGS THAT ARE COMPLIANT WITH THE RECOMMENDATIONS OF THAT GEOLOGICAL INVESTIGATION REPORT MAY BE REQUIRED TO BE SUBMITTED FOR REVIEW BY THE BUILDING OFFICIAL PRIOR TO CONSTRUCTION OF THE FOUNDATIONS.

E. REINFORCING STEEL

1. DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS SHALL BE PREFORMED IN ACCORDANCE WITH ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
2. REINFORCING BARS SHALL CONFORM TO ASTM A 615, GRADE 60, U.O.N.
3. U.N.O., REINFORCING BAR LAP SPLICES SHALL BE:

NW & LW CONCRETE	CLASS B (18" MIN)
MASONRY (CMU)	64 BAR DIA. (24" MIN)

4. DETAILS OF REINFORCEMENT SHALL COMPLY WITH THE PROVISIONS OF ACI 318.
5. WHERE HOOKS ARE ILLUSTRATED AS 90-DEGREE HOOKS, 180-DEGREE HOOKS MAY BE USED IN LIEU OF 90-DEGREE HOOKS.
6. REINFORCING BARS FOR CONCRETE SHALL BE PROVIDED WITH THE FOLLOWING MINIMUM COVER:

CONCRETE CAST AGAINST EARTH	3"
FORMED CONCRETE EXPOSED TO EARTH / WEATHER	
#5 OR SMALLER	1 ½"
#6 OR LARGER	2"
SLABS (#11 AND SMALLER)	¾"

7. VERTICAL WALL BARS SHALL BE ACCURATELY POSITIONED AND SECURED AT THE CENTER OF THE WALL, U.N.O.

F. REINFORCED CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE BUILDING CODE AND TO THE PROVISIONS OF ACI 318.
2. THE STRUCTURAL DESIGN OF FOOTINGS SHOWN ON THESE DRAWINGS IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH, f'_c, NOT MORE THAN 2,500 psi.
3. WATER MAY BE ADDED TO CONCRETE ON-SITE TO OBTAIN SPECIFIED SLUMPS PROVIDED THAT IT IS ADDED WITHIN ONE HOUR OF BATCHING AND SITE-ADDED WATER IS SPECIFIED ON THE BATCH REPORT. SITE-ADDED WATER SHALL NOT COMPROMISE THE STRENGTH OR SLUMP OF THE CONCRETE.
4. CONCRETE SHALL NOT BE PLACED BEYOND 1-1/2 HOURS FOLLOWING BATCHING.
5. PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER U.O.N.
6. WHERE CONCRETE IS PLACED AGAINST EXISTING CONCRETE SURFACES, THE EXISTING CONCRETE SURFACES SHALL BE THOROUGHLY CLEANED AND ROUGHENED TO A MINIMUM AMPLITUDE OF ¼-INCH. A CONCRETE BONDING AGENT SHALL BE APPLIED TO THE EXISTING CONCRETE SURFACE.
7. READY MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C 94.
8. CEMENT SHALL CONFORM TO ASTM C 150 TYPE I OR II, LOW ALKALI.
9. FLYASH SHALL CONFORM TO ASTM C 618, CLASS F. FLYASH SHALL BE LIMITED TO NO MORE THAN 20% OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS IN THE CONCRETE, U.O.N.
10. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C 33.
11. NORMAL WEIGHT CONCRETE SHALL HAVE A MAXIMUM DRY DENSITY OF 150 pcf.
12. MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS, MAXIMUM SLUMPS, AND MAXIMUM WATER/CEMENT RATIOS SHALL BE AS FOLLOWS:

DESCRIPTION	MIN 28 DAY f'_c	SLUMP	MAX W/C RATIO
SHALLOW FOUNDATIONS	3,500 psi	4" +/- 1"	0.52
SLABS ON GRADE	3,000 psi	4" +/- 1"	0.45

13. SLUMPS INDICATED ARE PRIOR TO PLASTICIZER ADDITIVES.
14. CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.

G. POST-INSTALLED EXPANSION ANCHORS

1. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
2. POST-INSTALLED EXPANSION ANCHORS SHALL BE AS FOLLOWS, U.N.O.

MATERIAL	ANCHOR
NW & LW CONCRETE	HILTI KB-TZ2 (ESR-4266)
SOLID GROUTED CMU	HILTI KB-TZ2 (ESR-4561)

3. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMBEDMENT, SPACING, AND EDGE DISTANCE) AS INDICATED ON THE DRAWINGS.
4. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURER'S PUBLISHED EVALUATION REPORT. HOLES SHALL BE CLEANED IN CONFORMANCE WITH THE ANCHOR MANUFACTURER'S INSTRUCTIONS.
5. WHEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE OR MASONRY, AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS.
6. WHEN INSTALLING ANCHORS INTO PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. AVOID CUTTING OR DAMAGING THE TENDONS.

H. POST-INSTALLED ADHESIVE ANCHORS

1. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
2. ADHESIVE ANCHOR INSTALLERS SHALL BE TRAINED BY A QUALIFIED REPRESENTATIVE OF THE ADHESIVE MANUFACTURER ON THE PROPER PROCEDURES AND TECHNIQUES FOR INSTALLATION.
3. ADHESIVE SHALL BE STORED ON THE JOBSITE IN A COOL, DRY LOCATION IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS.
4. ADHESIVE ANCHORS SHALL NOT BE USED FOR OVERHEAD INSTALLATION.
5. POST-INSTALLED ADHESIVE ANCHORS SHALL BE AS FOLLOWS, U.N.O.

MATERIAL	ANCHOR
NW & LW CONCRETE	HILTI HIT-HY 200 V3 (ESR-4868)
SOLID GROUTED CMU	HILTI HIT-HY 270 (ESR-4143)

6. THREADED RODS FOR ADHESIVE ANCHORS SHALL CONFORM TO ASTM F1554 GR 36, UNO. NUTS FOR ANCHOR RODS SHALL CONFORM TO ASTM A563, GR A HEX.
7. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMBEDMENT, SPACING, AND EDGE DISTANCE) AS INDICATED ON THE DRAWINGS.
8. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURER'S PUBLISHED EVALUATION REPORT. HOLES SHALL BE CLEANED IN CONFORMANCE WITH THE ANCHOR MANUFACTURER'S INSTRUCTIONS.
9. WHEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE OR MASONRY, AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS.
10. WHEN INSTALLING ANCHORS INTO PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. AVOID CUTTING OR DAMAGING THE TENDONS.

STRUCTURAL ABBREVIATIONS

THE STRUCTURAL DRAWINGS MAY INCLUDE THE FOLLOWING STANDARD ABBREVIATIONS:

(E)	EXISTING
(N)	NEW
(P)	PROPOSED
BLDG	BUILDING
BM	BEAM
BOTT	BOTTOM
BRG	BEARING
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CTR	CENTER
DBL	DOUBLE
EA	EACH
EQUIP	EQUIPMENT
F.N.	FIELD NAILING
FRP	FIBER-REINFORCED POLYMER
FTG	FOOTING
GALV	GALVANIZED
GLB	GLULAM BEAM / MEMBER
HGR	HANGER
HORIZ	HORIZONTAL
HSS	HOLLOW STEEL SECTION
INT	INTERIOR
k	KIP(S) = 1,000 lb
lb	POUND(S)
MFR	MANUFACTURER
MTL	METAL
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND / MIRROR
OC	ON CENTER
PL	PLATE
psf	POUNDS PER SQUARE FOOT
P-T	POST-TENSIONED
REINF	REINFORCEMENT
PSL	PARALLEL STRAND LUMBER
REQ'D	REQUIRED
SHTG	SHEATHING
SMS	SHEET METAL SCREW
SQ	SQUARE
STIFF	STIFFENER
STL	STEEL
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
THK	THICK
TPL	TRIPLE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH

SPECIAL INSPECTION AND TESTING PROGRAM

A. GENERAL

1. NOTICE TO THE APPLICANT, OWNER, OWNER'S AGENT, ARCHITECT OR ENGINEER OF RECORD: BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION OR INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE BUILDING OFFICIAL FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND AS REQUIRED BY CONSTRUCTION CODES.
2. NOTICE TO THE CONTRACTOR, BUILDER, INSTALLER, SUBCONTRACTOR OR OWNER-BUILDER: BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION OR INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE THAT YOU ARE AWARE OF THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE BUILDING OFFICIAL FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND AS REQUIRED BY CONSTRUCTION CODES.
3. THE OWNER OR OWNER'S AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY SPECIAL INSPECTION AND TESTING AGENCIES TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.
4. SPECIAL INSPECTION SHALL BE PERFORMED IN ADDITION TO INSPECTION BY THE BUILDING OFFICIAL AS REQUIRED IN SECTION 110 OF THE BUILDING CODE. SPECIAL INSPECTION SHALL NOT BE A SUBSTITUTE FOR INSPECTION BY THE BUILDING OFFICIAL.
5. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION OR TESTING IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE OBSERVED IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS AND SECTION 1704 OF THE BUILDING CODE, IT SHALL BE THE SPECIAL INSPECTION AGENCY'S RESPONSIBILITY TO EMPLOY A SUFFICIENT NUMBER OF INSPECTORS TO ASSURE THAT THE REQUIRED WORK IS INSPECTED.
6. THE SPECIAL INSPECTION AGENCY SHALL BE APPROVED BY THE BUILDING OFFICIAL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. EXCEPTIONS:
   A. WHEN THIS REQUIREMENT FOR AGENCY APPROVAL IS WAIVED BY THE BUILDING OFFICIAL.
7. THE CONSTRUCTION MATERIALS TESTING AGENCY SHALL BE APPROVED BY THE BUILDING OFFICIAL FOR THE TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND EQUIPMENT.
8. PRIOR TO THE START OF CONSTRUCTION, THE SPECIAL INSPECTION AND TESTING AGENCIES SHALL SUBMIT DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING THE COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION.
9. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A STATEMENT OF RESPONSIBILITY TO THE OWNER (OR OWNER'S DESIGNATED AGENT) AND BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND TESTING.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE SPECIAL INSPECTION OR TESTING AGENCIES AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.
11. WORK REQUIRING SPECIAL INSPECTION OR TESTING THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL IS SUBJECT TO REMOVAL OR EXPOSURE AT THE CONTRACTOR'S EXPENSE.

B. REQUIRED REPORTS:

1. THE SPECIAL INSPECTION AGENCY SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
2. SPECIAL INSPECTION REPORTS SHALL INDICATE WHETHER THE WORK INSPECTED WAS, OR WAS NOT PERFORMED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
3. THE CONSTRUCTION MATERIALS TESTING AGENCY SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
4. MATERIAL TESTING REPORTS SHALL INDICATE WHETHER THE TESTED MATERIALS CONFORM, OR DO NOT CONFORM, TO THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS.
5. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
6. IF DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK.
7. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS, MATERIAL TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON, PRIOR TO THE START OF WORK, BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL.

C. CONTINUOUS AND PERIODIC SPECIAL INSPECTIONS:

1. WHERE CONTINUOUS SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR SHALL CONTINUOUSLY PROVIDE FULL-TIME INSPECTION OF THE WORK.
2. WHERE PERIODIC SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING THE WORK WHERE PERIODIC INSPECTION IS INDICATED. AS A MINIMUM, PERIODIC SPECIAL INSPECTION SHALL OCCUR DAILY.

D. OFF-SITE FABRICATION:

1. SPECIAL INSPECTION AND TESTING IS REQUIRED FOR THE OFF-SITE FABRICATION OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD RESISTING MEMBERS AND REINFORCING ASSEMBLIES, UNLESS THE FABRICATION IS PERFORMED BY AN APPROVED FABRICATOR.
2. AN APPLICATION FOR OFF-SITE FABRICATION MUST BE SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO COMMENCING ANY FABRICATION WORK REQUIRING SPECIAL INSPECTION OR TESTING.
3. A CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION MUST BE SUBMITTED BY THE FABRICATOR TO THE SPECIAL INSPECTION OR TESTING AGENCY PRIOR TO FABRICATION, AND SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO ERECTION OF PREFABRICATED COMPONENTS.
4. SPECIAL INSPECTION SHALL INCLUDE VERIFICATION THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
5. SPECIAL INSPECTION SHALL INCLUDE REVIEW OF THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE REQUIREMENTS OF THE BUILDING CODE.

STATEMENT OF SPECIAL INSPECTIONS AND TESTING

DESCRIPTION OF TYPE OF INSPECTION REQUIRED	CONTIN-UOUS	PERIODIC	FOOT-NOTE
POST-INSTALLED ANCHORS			
INSTALLATION OF EXPANSION ANCHORS		X	1
JOBSITE STORAGE OF ADHESIVE PRIOR TO INSTALLATION FOR CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS		X	1
INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTALLY OR UPWARDLY-INCLINED ORIENTATIONS	X		1
INSTALLATION OF ADHESIVE ANCHORS IN DOWNWARD VERTICAL ORIENTATIONS		X	1

FOOTNOTES FOR STATEMENT OF SPECIAL INSPECTIONS

1. SPECIAL INSPECTION FOR POST-INSTALLED ANCHORS SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED IN THE EVALUATION APPROVAL FOR THE SPECIFIC PRODUCT.

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SITE INFORMATION:

CCL04383

5707 HIGHLAND ROAD

5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

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PROFESSIONAL STAMP:

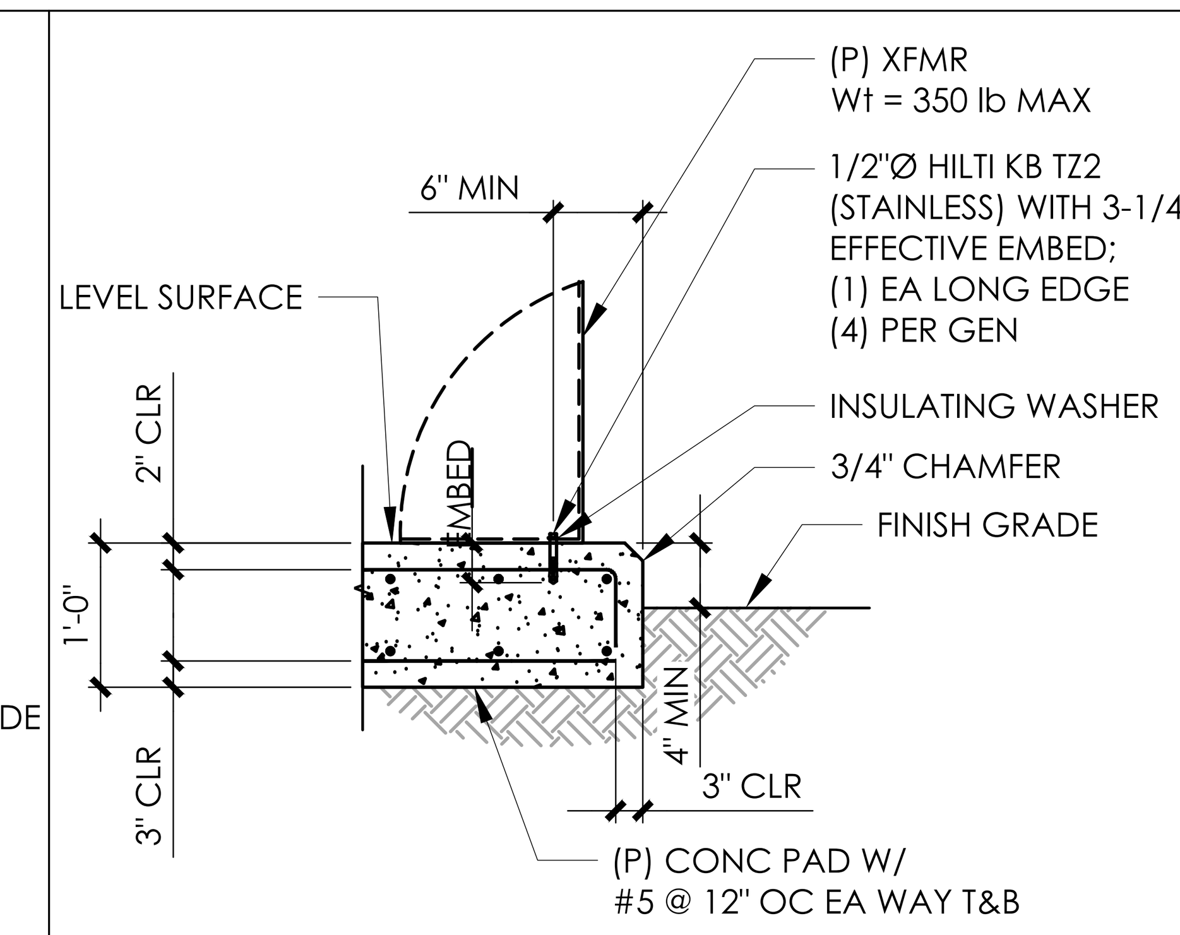
SIGNED: 2024/11/11
EXPIRES: 2025/09/30

SHEET TITLE:

S-1

SHEET NAME:

STRUCTURAL NOTES



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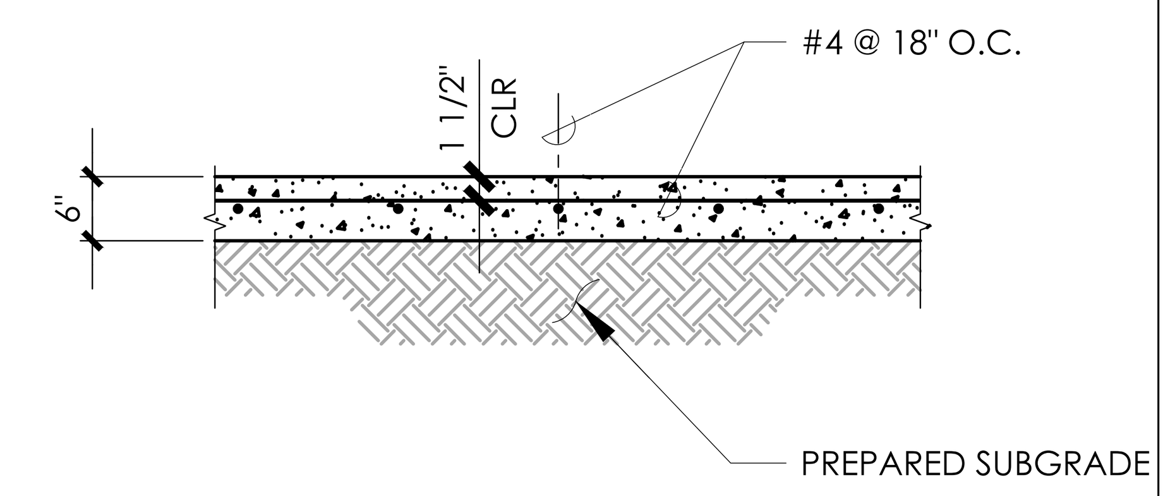
(1)



TYPICAL SLAB ON GRADE
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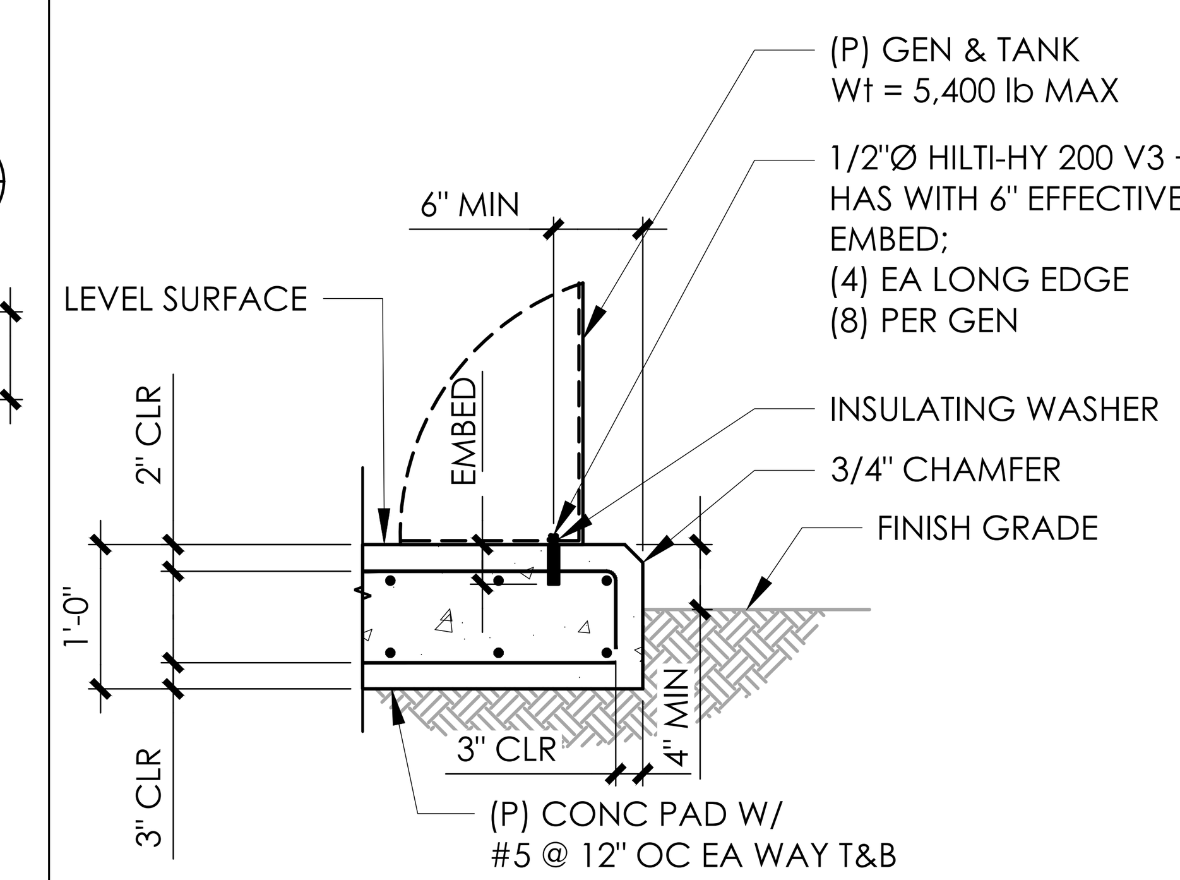
(9)

(13)

(17)



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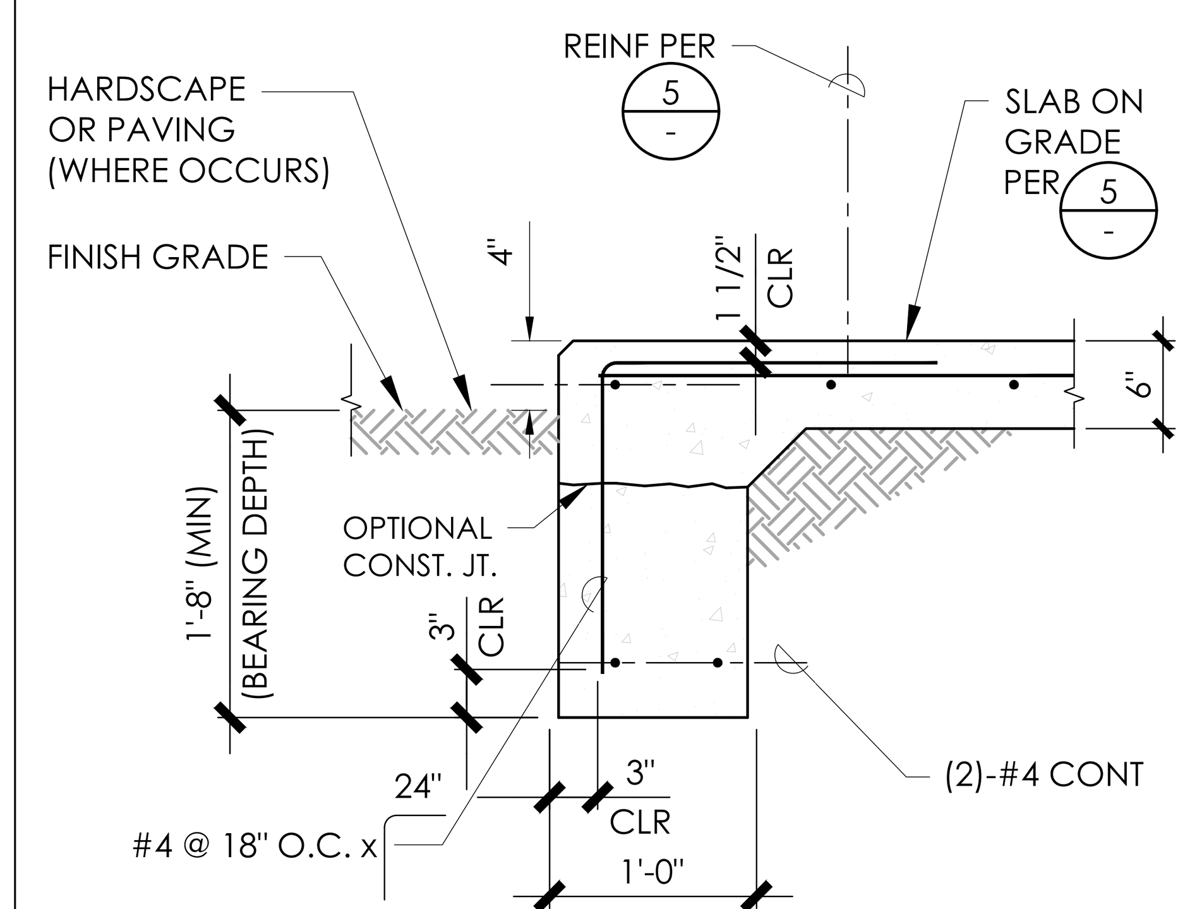

TYPICAL SLAB-ON-GRADE EDGE
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(6)

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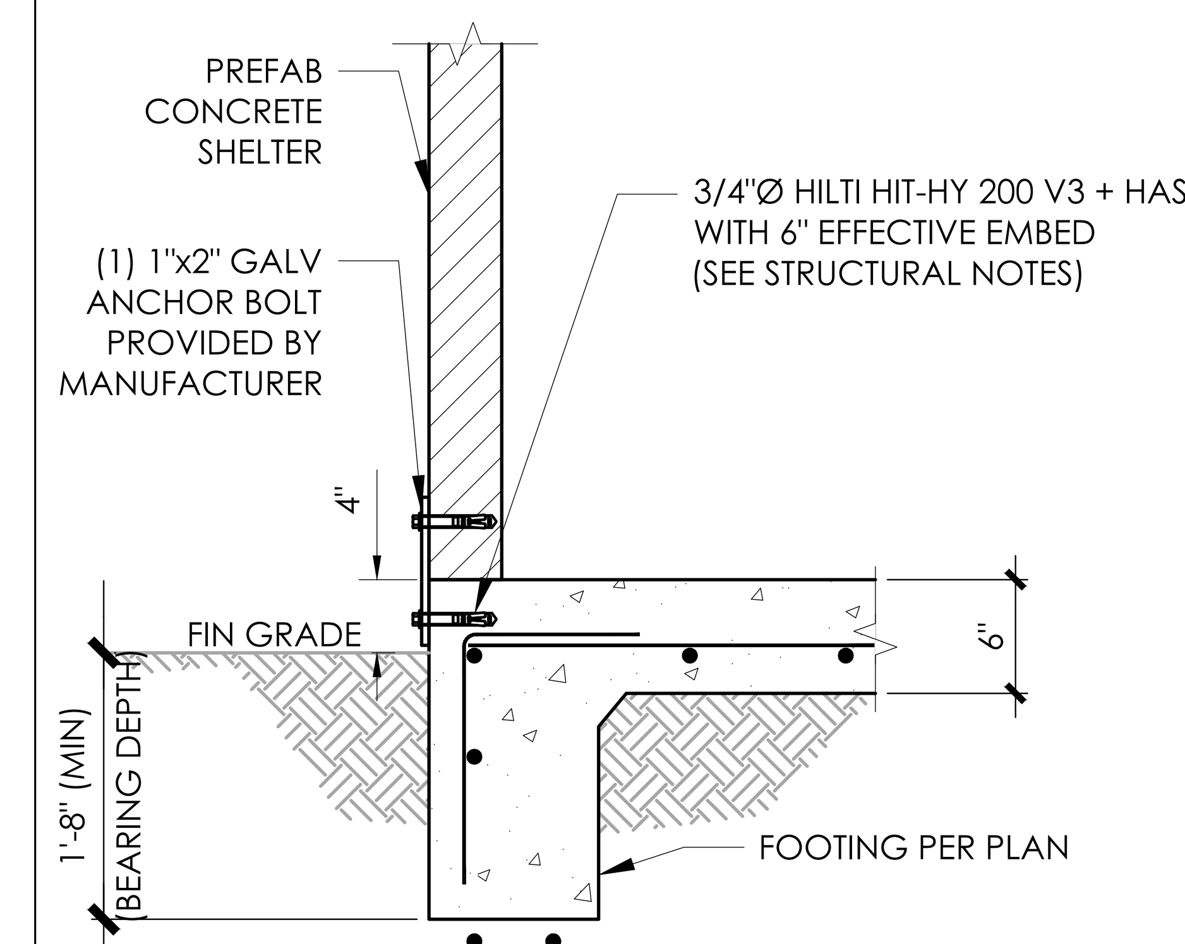
(18)



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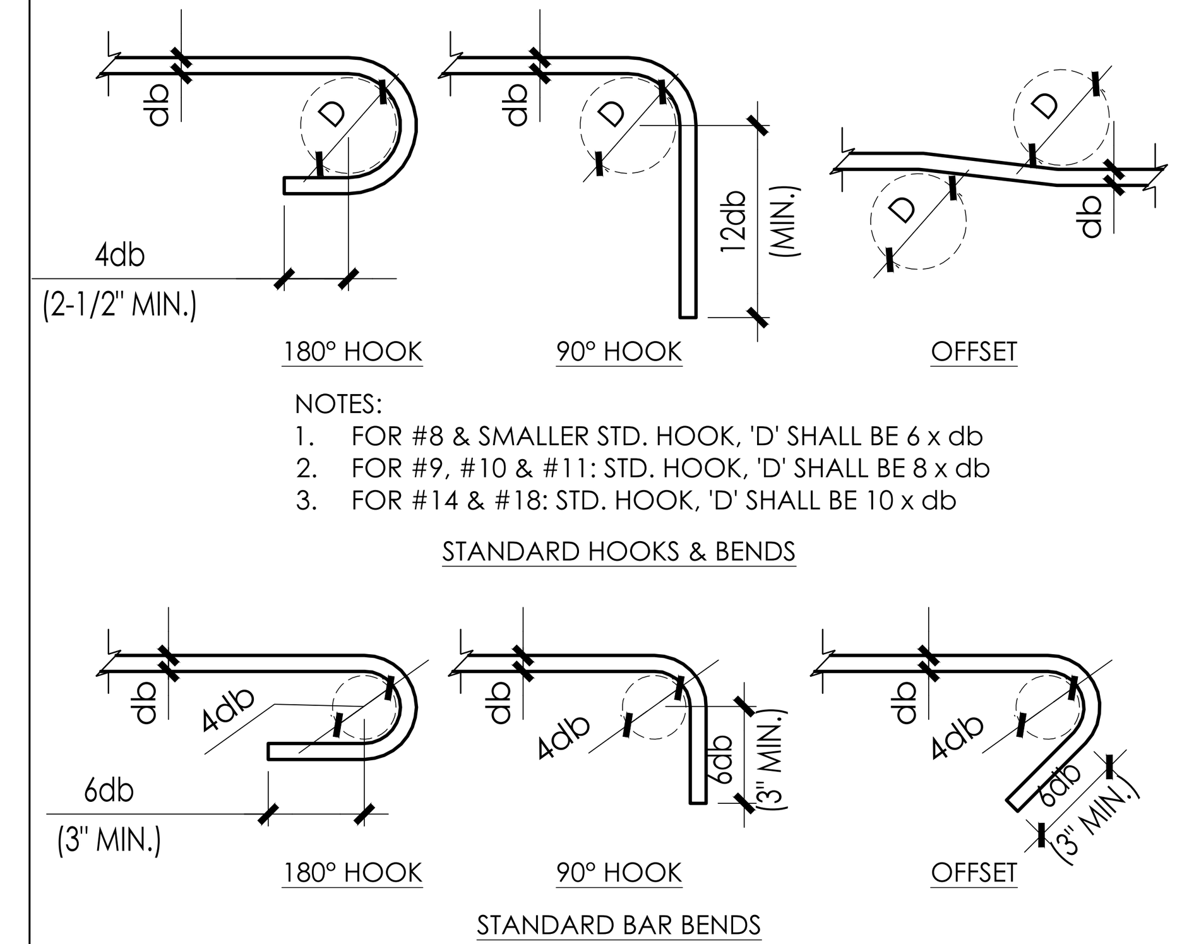

TYPICAL BAR ENDS
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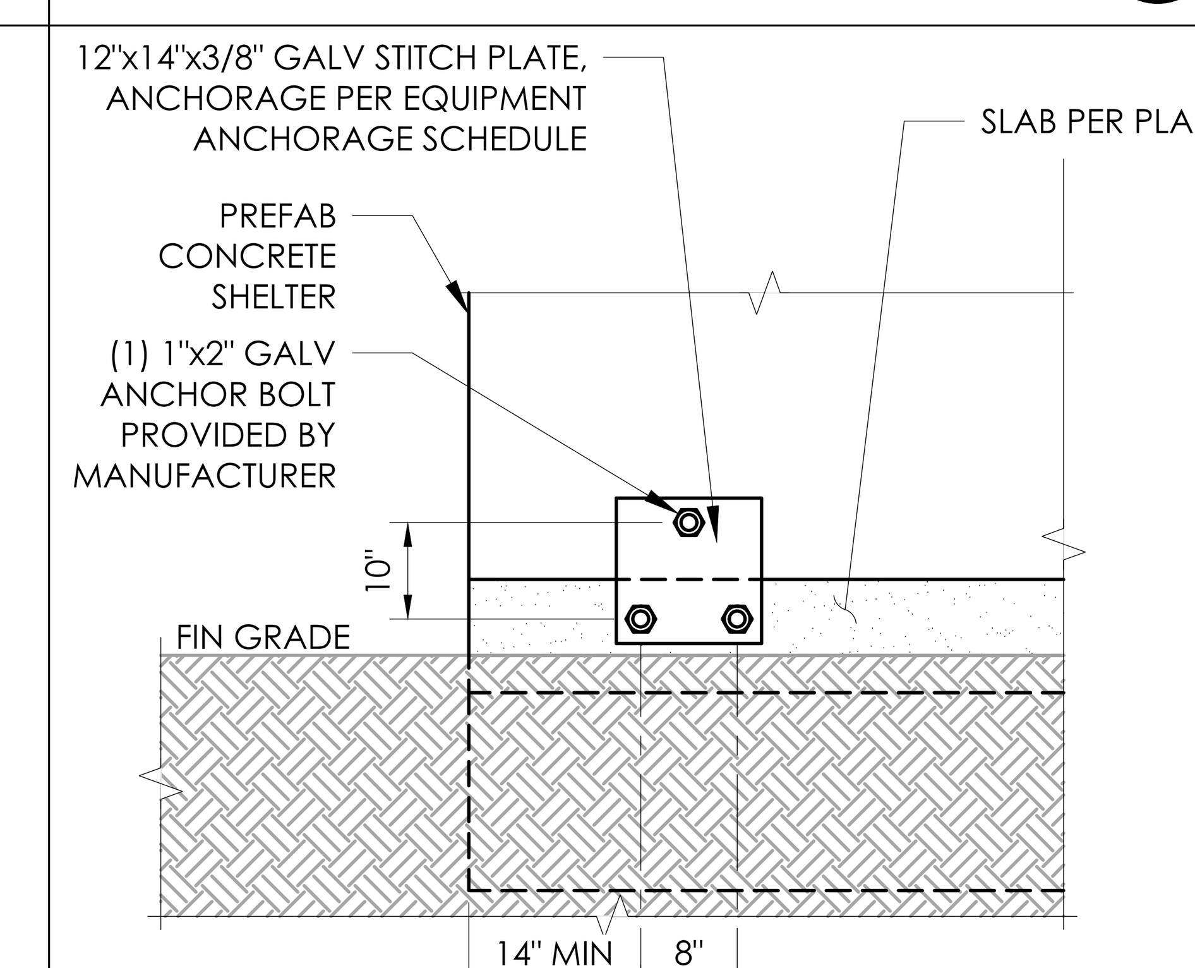

SHELTER ANCHORAGE TO NEW CONCRETE PAD
N.T.S.

(4)

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REGISTERED PROFESSIONAL ENGINEER
81603
CIVIL
STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

SHEET TITLE:

S-2

SHEET NAME:

STRUCTURAL DETAILS

ELECTRICAL INSTALLATION METHODS:

1. THIS INSTALLATION SHALL COMPLY WITH THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND WITH UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.

2. INSTALL SUFFICIENT LENGTHS OF LFMC INCLUDING ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC) NECESSARY FOR CONNECTION FROM IMC OR PVC CONDUIT TO THE INTERIOR OF THE BTS CABINET.

3. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90ºC (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.

4. CUT, COIL AND TAPE A 3 FOOT PIGTAIL FROM END OF LFMC FOR TERMINATING BY BTS EQUIPMENT MANUFACTURER.

5. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90ºC (WET AND DRY) OPERATION, LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED.

6. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS OR BELOW GRADE SHALL BE SINGLE CONDUCTOR #2 AWG SOLID, TINNED, COPPER CABLE.

7. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC. CABLE (#14 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B, STRANDED COPPER CABLE RATED FOR 90ºC (WET OR DRY) OPERATION, WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED.

8. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.

9. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

10. NEW RACEWAY OR CABLE TRAY SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.

11. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP STYLE, COMPRESSION, WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75ºC.

12. EACH END OF EVERY POWER, GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR CODED INSULATION OR ELECTRICAL TAPE. THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.

13. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMINATED PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (PANELBOARD AND CIRCUIT IDENTIFICATION).

14. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.

15. RIGID NONMETALLIC CONDUIT (PVC SCHEDULE 40 OR PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.

16. ALL CONDUIT RUN ABOVE GROUND OR EXPOSED SHALL BE EMT, LFMC, IMC OR RIGID STEEL.

17. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED FOR INDOOR AND ROOFTOP LOCATIONS.

18. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.

20. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

21. CABINETS, BOXES AND WIREWAYS SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.

22. PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.

23. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC. THE SITE SPECIFIC LIGHTNING PROTECTION CODE AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.

24. ALL ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

25. PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

26. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION SIZED IN ACCORDANCE WITH THE NEC SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

27. EACH INDOOR BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH SUPPLEMENTAL EQUIPMENT GROUND WIRES #6 OR LARGER.

28. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

29. APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

30. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

31. SURFACES TO BE CONNECTED TO GROUND CONDUCTORS SHALL BE CLEANED TO A BRIGHT SURFACE AT ALL CONNECTIONS.

32. EXPOSED GROUND CONNECTIONS SHALL BE MADE WITH COMPRESSION CONNECTORS WHICH ARE THEN BOLTED TO EQUIPMENT USING STAINLESS STEEL HARDWARE. INSTALLATION TORQUE SHALL BE PER MANUFACTURER'S REQUIREMENTS.

33. DC POWER CABLES SHALL BE COBRA COP-FLEX 2000, FLEXIBLE CLASS B OR APPROVED EQUAL.

PRODUCTS:

1. ALL MATERIALS SHALL BE NEW, CONFORMING WITH NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.

2. CONDUIT:

   A) ELECTRICAL METALLIC TUBING SHALL U.L. LABEL, FITTINGS SHALL BE COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS AND ROOFTOPS.

   B) FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.

   C) CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.

   D) ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE

   E) ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.

   F) CONDUITS RUN ON ROOFS SHALL BE INSTALLED ON DURA-BLOK ROOFTOP SUPPORTS BY COOPER B-LINE.

   G) *RIGID SHALL BE USED IN LOCATIONS OF POTENTIAL DAMAGE AND/OR CRUSH. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.

3. ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. TYPE THHN INSULATION USED UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE THWN INSULATION SHALL BE USED.

4. PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED PER CODE TO ACCOMMODATE ALL DEVICES AND WIRING.

5. DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE WITH WHITE FINISH (UNLESS NOTED BY ENGINEER), 20 AMP, 125 VOLT, THREE WIRE GROUNDING TYPE, NEMA 5-20R. MOUNT RECEPTACLE AT +12" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON DRAWINGS OR IN DETAILS. WEATHERPROOF RECEPTACLES SHALL BE GROUND FAULT INTERRUPTER TYPE WITH SIERRA #WPD-8 LIFT COVERPLATES.

6. TOGGLE SWITCHES SHALL BE 20 AMP, 120 VOLT AC, SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE) FINISH. MOUNT SWITCHES AT +48" ABOVE FINISHED FLOOR.

7. PANELBOARDS SHALL BE DEAD FRONT SAFETY TYPE WITH ANTI-BURN SOLDERLESS COMPRESSION APPROVED FOR COPPER CONDUCTORS, COPPER BUS BARS, FULL SIZED NEUTRAL BUS, GROUND BUS AND EQUIPPED WITH QUICK-MAKE QUICK-BREAK BOLT-IN TYPE THERMAL MAGNETIC CIRCUIT BREAKERS. MOUNT TOP OF THE PANELBOARDS AT 6'-3" ABOVE FINISHED FLOOR. PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY.

8. ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

9. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.

GROUNDING NOTES:

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.

2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.

3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.

4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.

5. GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.

6. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.

7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.

8. GROUND BARS:
   A) EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT THE BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.

9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.

10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.

11. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).

12. IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OF GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.

13. GROUNDING AT PPC CABINET SHALL BE VERTICALLY INSTALLED.

14. ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.

15. ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING, NO PVC ABOVE GROUND.

16. USE SEPARATE HOLES FOR GROUNDING AT BUSS BAR. NO "DOUBLE-UP" OF LUGS.

17. POWER AND TELCO CABINETS SHALL BE GROUNDED (BONDED) TOGETHER.

18. NO LB'S ALLOWED ON GROUNDING.

19. PROVIDE STAINLESS STEEL CLAMP AND BRASS TAGS ON COAX AT ANTENNAS AND DOGHOUSE.

20 ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER SPECIFICATION.

21 IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED TO GROUND ELECTRODE SYSTEM. WHEN THE AC PANEL IN THE POWER CABINET IS CONSIDERED A SUB-PANEL, THE GROUND WIRE SHALL BE INSTALLED IN THE AC POWER CONDUIT. THE INSTALLATION SHALL BE PER LOCAL AND NATIONAL ELECTRIC CODE (NFPA-70).

22 EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTION WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE MADE USING COMPRESSION TYPE-2 HOLES. LONG BARREL LUGS OR DOUBLE CRIMP CLAMP "C" CLAMP. THE COPPER CABLES SHALL BE COATED WITH ANTIOXIDANT (COPPER SHIELD) BEFORE MAKING THE CONNECTIONS. THE MANUFACTURER'S TORQUING RECOMMENDATIONS ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS SHALL BE FOLLOWED.

23 THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUSS AT THE LOWER MOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.

24 ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES OR EQUIPMENT.

25 PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND /OR CEILINGS.

26. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.

27 GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.

28. ALL PROPOSED GROUNDING CONDUCTORS SHALL BE ROUTED AND CONNECTED TO THE MAIN GROUND BAR OR EXISTING GROUND RING.

29. THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES, ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.

30. CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.

31. FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.

32. REFER TO GROUND BUS DETAILS. PROVIDE NEW GROUND SYSTEM COMPLETE WITH CONDUCTORS, GROUND ROD AND DESCRIBED TERMINATIONS.

33. ALL GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.

34. ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT GROUND CONDUCTORS SHALL BE #2 STRANDED THHN (GREEN) INSULATION.

35. ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.

36. PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.

37. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FUTURE INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO SMART SMR ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".

38. #2 STRANDED THHN WITH WATER CLAMPS AT EVERY 25' MOUNTED ON CONDUITS AT ROOFTOP LOCATIONS

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PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER
JEFF ERTELT
E 21680
ELECTRICAL
STATE OF CALIFORNIA

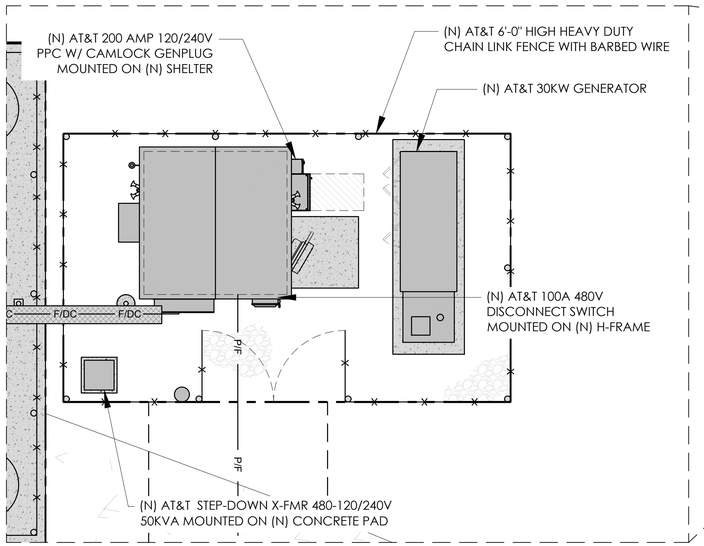
11/11/24

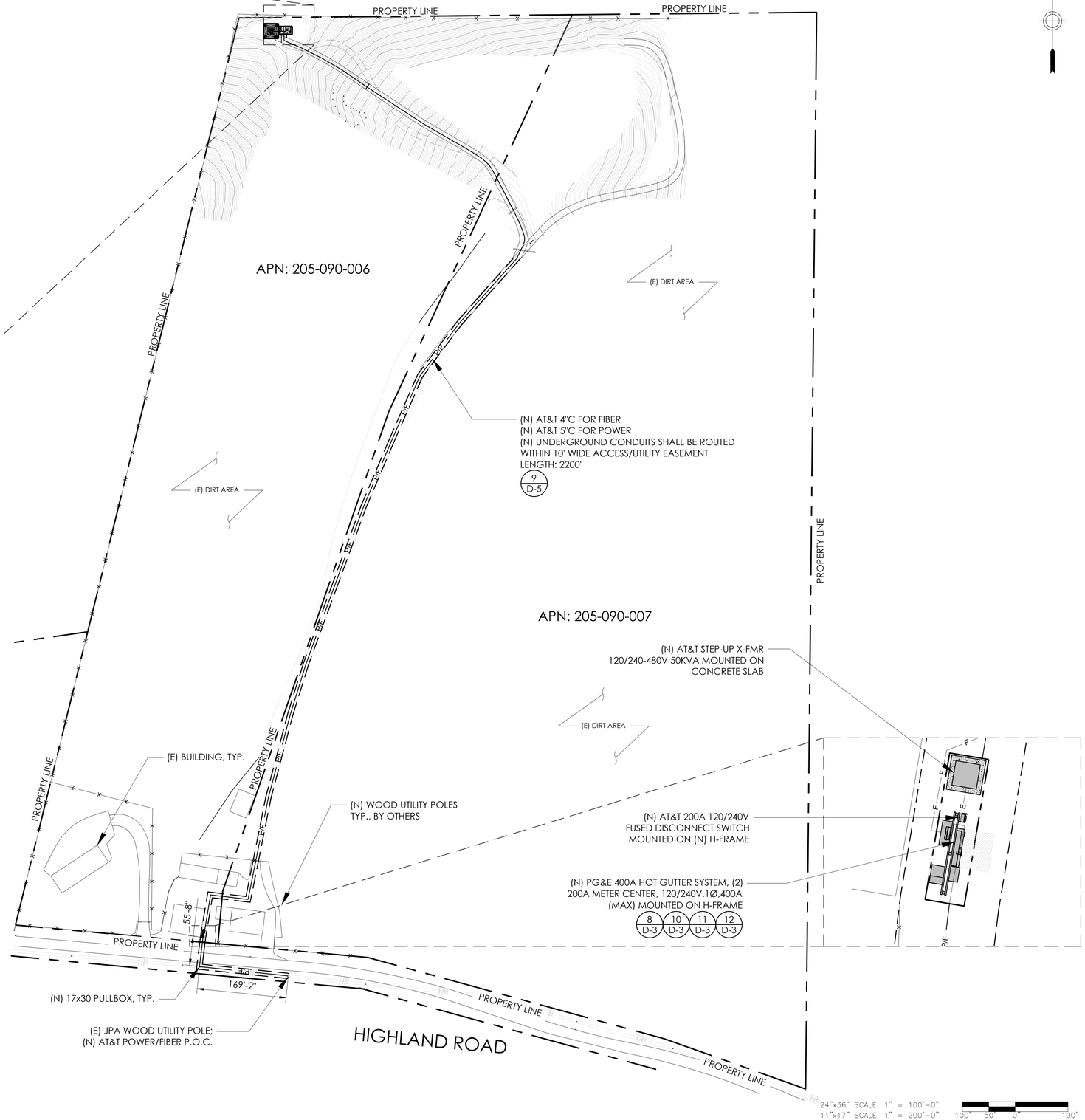
SHEET TITLE:

E-1

SHEET NAME:

ELECTRICAL NOTES





1 PROPOSED ENLARGED SITE PLAN (ELECTRICAL)

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B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER
JEFF ERTELT
E 21680
ELECTRICAL
STATE OF CALIFORNIA
11/11/24

It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

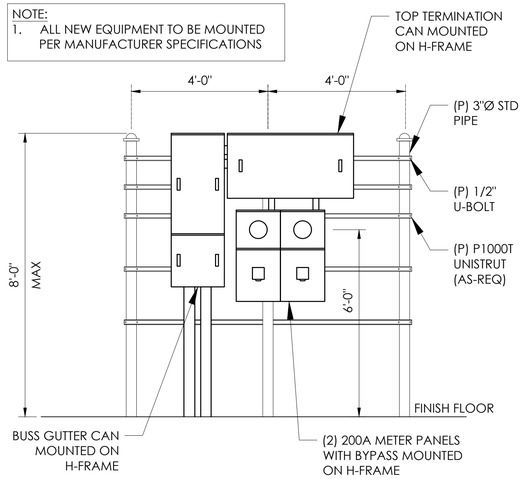
SHEET TITLE:

E-2

SHEET NAME:

PROPOSED ENLARGED SITE PLAN (ELECTRICAL)

NOTE:
1. ALL NEW EQUIPMENT TO BE MOUNTED PER MANUFACTURER SPECIFICATIONS



1 H-FRAME DETAIL
N.T.S.

NOTES:

1. ALL WORK TO CONFORM TO N.E.C. LATEST STATE ADOPTED EDITION.
2. LABEL SERVICE DISCONNECT WITH A RED TAG.
3. SWITCH LEG CONDUCTORS SHALL BE THE SAME COLOR AS CIRCUIT CONDUCTORS.
4. PULL ONE GROUND CONDUCTOR PER FLEXIBLE NONMETALLIC CONDUIT. FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR.
5. ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
6. EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.
7. THE MAIN SWITCHBOARD SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT-CURRENT CALCULATION WAS PERFORMED. CEC 110.24(A).
8. ARC FLASH HAZARD DISCONNECT SHALL BE PROVIDED IN ACCORDANCE WITH CEC 110.16.
9. THE MAIN SERVICE DISCONNECT SHALL BE MARKED PERMANENTLY CEC 230.70(B).
10. SWITCHBOARDS, SWITCHGEAR, AND PANELBOARDS SHALL HAVE THE AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED SHALL BE FIELD MARKED ON THE ENCLOSURE AT THE POINT OF SUPPLY. THE MARKING SHALL COMPLY WITH 110.21(B)(3). CEC 408.6.
11. PROVIDE A PLAQUE OR DIRECTORY PER CEC 700.7(A) OR 702.7(A).

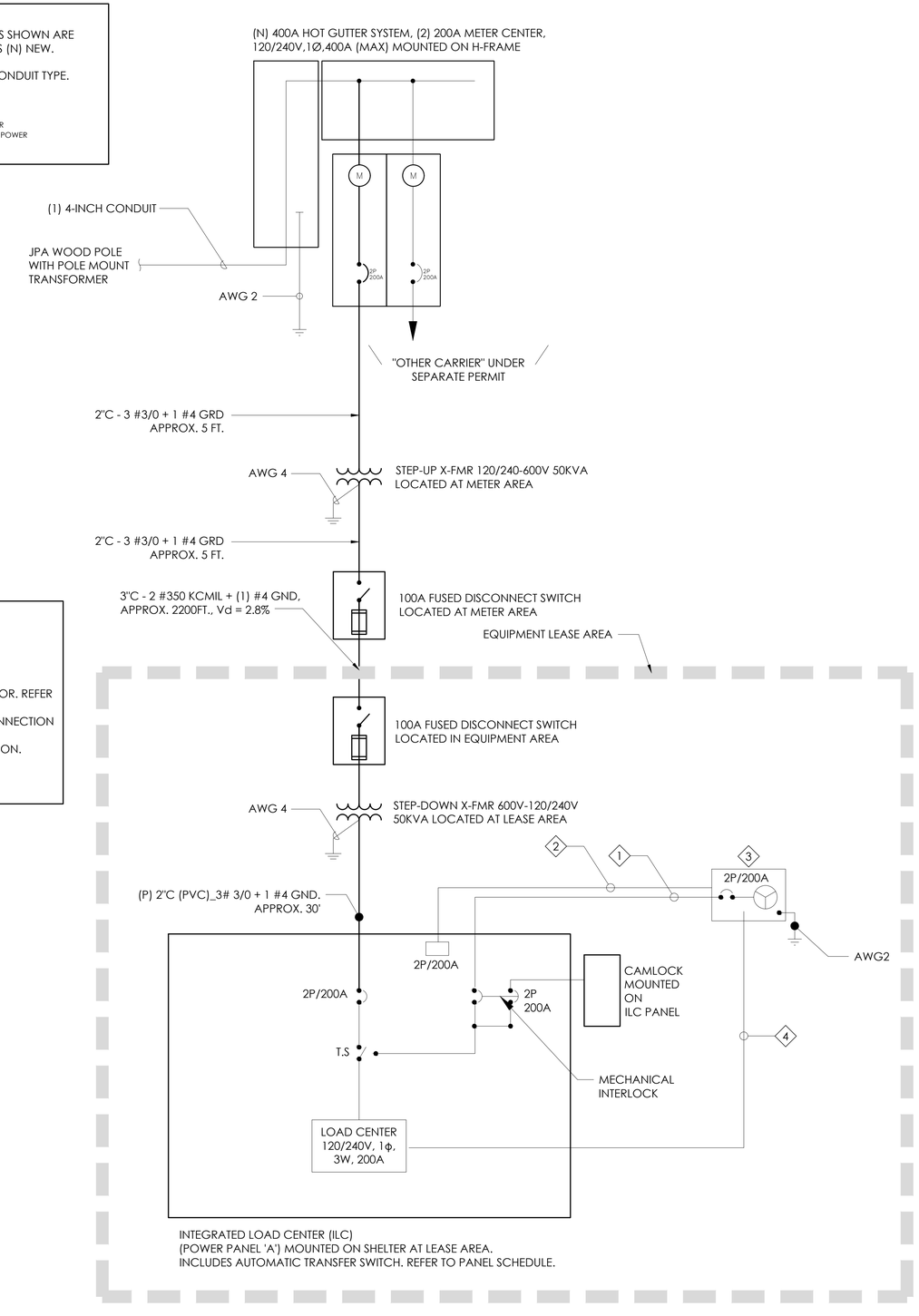
NOTE:
ALL BREAKERS AND PANELS SHOWN ARE EXISTING UNLESS NOTED AS (N) NEW.

SEE SPECIFICATION FOR CONDUIT TYPE.

LEGEND:
MI = MECHANICAL INTERLOCK
RU = RELAY TO MONITOR UTILITY POWER
RG = RELAY TO MONITOR GENERATOR POWER

KEY NOTES:

1. (P) 2"C _ (3)#3/0 + (1)#4 GND, APPROX - 30FT.
2. (P) 1"C _ (2)#16 FOR START/STOP GENERATOR, AND (1) CAT 5 CABLE FOR ALARM & MONITOR. REFER TO SHELTER DRAWINGS PROVIDED BY SHELTER MANUFACTURER FOR DETAILED WIRING CONNECTION
3. (P) GENERATOR 120/240V, 1ϕ 30KW, FURNISHED W/ DIS. CB, LOCKABLE IN THE OPEN POSITION.
4. (P) 3/4"C _ (4)#12 + (2)#12 GND. FOR BATTERY CHARGER AND BLOCK HEATER



INTEGRATED LOAD CENTER (ILC)
(POWER PANEL 'A') MOUNTED ON SHELTER AT LEASE AREA.
INCLUDES AUTOMATIC TRANSFER SWITCH. REFER TO PANEL SCHEDULE.

1 SINGLE-LINE DIAGRAM (SLD)
N.T.S.

NOTES:
1. THIS PANEL IS PROVIDED AND INSTALLED BY VAULT MANUFACTURER
2. LIGHTING, DUPLEX RECEPTACLE, G.F.I ARE DESIGNED AND INSTALLED BY VAULT MANUFACTURER.

VOLTAGE: 120/240V, 1-PHASE, 3W, 200A, 42 KAIC — MOUNTING: SURFACE
MAIN CB: 2P/200A — NEMA: 3R
ILC Panel — LOCATION: @ LEASE AREA

VOLT AMPS PHASE A	VOLT AMPS PHASE B	DESCRIPTION	POLE	BKR	CKT	A B	CKT	BKR	POLE	DESCRIPTION	VOLT AMPS PHASE A	VOLT AMPS PHASE B
2150		RECTIFIERS 01&02	2	30	1		2	30	2	RECTIFIERS 03&04	2150	
	2150	VERTIV 7100			3		4			VERTIV 7100		2150
2150		RECTIFIERS 05&06	2	30	5		6	30	2	RECTIFIERS 07&08	2150	
	2150	VERTIV 7100			7		8			VERTIV 7100		2150
2150		RECTIFIERS 09&10	2	30	9		10	30	2	RECTIFIERS 11&12	2150	
	2150	VERTIV 7100			11		12			VERTIV 7100		2150
2150		RECTIFIERS 13&14	2	30	13		14	30	2	RECTIFIERS 15&16	2150	
	2150	VERTIV 7100			15		16			VERTIV 7100		2150
360		BATTERY CHARGER	1	20	17		18	20	1	LIGHT & RECEPTACLE	560	
	480	BATTERY HEATER	1	20	19		20	20	1	GFCI		180
1400		HVAC	2	25	21		22	30	2	SURGE SUPPRESSOR		
	1400	-			23		24			SPACE		
		SPACE			25		26			SPACE		
		SPACE			27		28			SPACE		
		SPACE			29		30			SPACE		
10360	10480	VA/LINE									9160	8780

PHASE A = 19520 VA — PHASE B = 19260 VA
CONNECTED LOAD: 38780 VA
CONNECTED AMPS: 162 A

2 AC PANEL SCHEDULE
N.T.S.

APPLICANT:
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:
PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:
CCL04383
5707 HIGHLAND ROAD
5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
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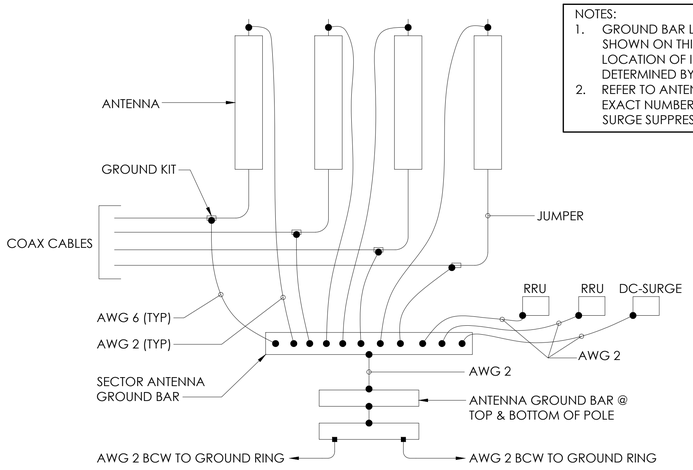
PROFESSIONAL STAMP:
REGISTERED PROFESSIONAL ENGINEER
JEFF ERTELT
E 21680
ELECTRICAL
STATE OF CALIFORNIA
11/11/24

SHEET TITLE:
E-3

SHEET NAME:
SINGLE LINE DIAGRAM & PANEL SCHEDULE



NOTES:
1. GROUND BAR LOCATION IS SCHEMATIC AS SHOWN ON THIS SHEET AND ACTUAL LOCATION OF INSTALLATION WILL BE DETERMINED BY THE INSTALLER.
2. REFER TO ANTENNA PLAN ON A-5 FOR EXACT NUMBER OF ANTENNA, RRU AND DC SURGE SUPPRESSOR

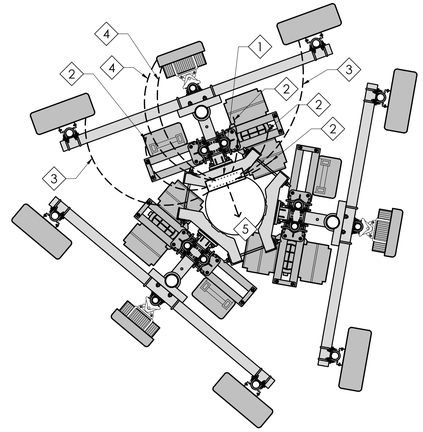
4 EQUIPMENT GROUNDING PLAN

NOTE:
1. REFER TO TYP. ANTENNA GROUNDING DIAGRAM.

KEY NOTES:

1. ANTENNA GROUND BAR
2. AWG 2 INSULATED COPPER GROUND WIRE FROM (N) RRUS AND DC9 TO (N) ANTENNA GROUND BAR
3. AWG 6 INSULATED COPPER WIRE FROM (N) ANTENNA GROUND KIT TO (N) ANTENNA GROUND BAR
4. (N) AWG 2 INSULATED COPPER GROUND WIRE FROM (N) AIR ANTENNA GROUND KIT TO (N) ANTENNA GROUND BAR
5. AWG 2 INSULATED COPPER WIRE CONNECT TO (N) ANTENNA GROUND BAR @ BOTTOM OF TOWER

NOTE:
1. GROUNDING FOR ANOTHER TWO SECTORS ARE NOT SHOWN FOR CLARITY.
2. GROUNDING PLAN FOR THREE SECTORS ARE IDENTICAL.

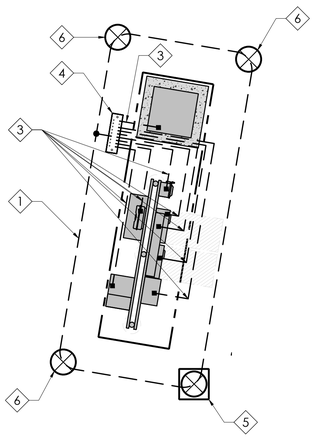


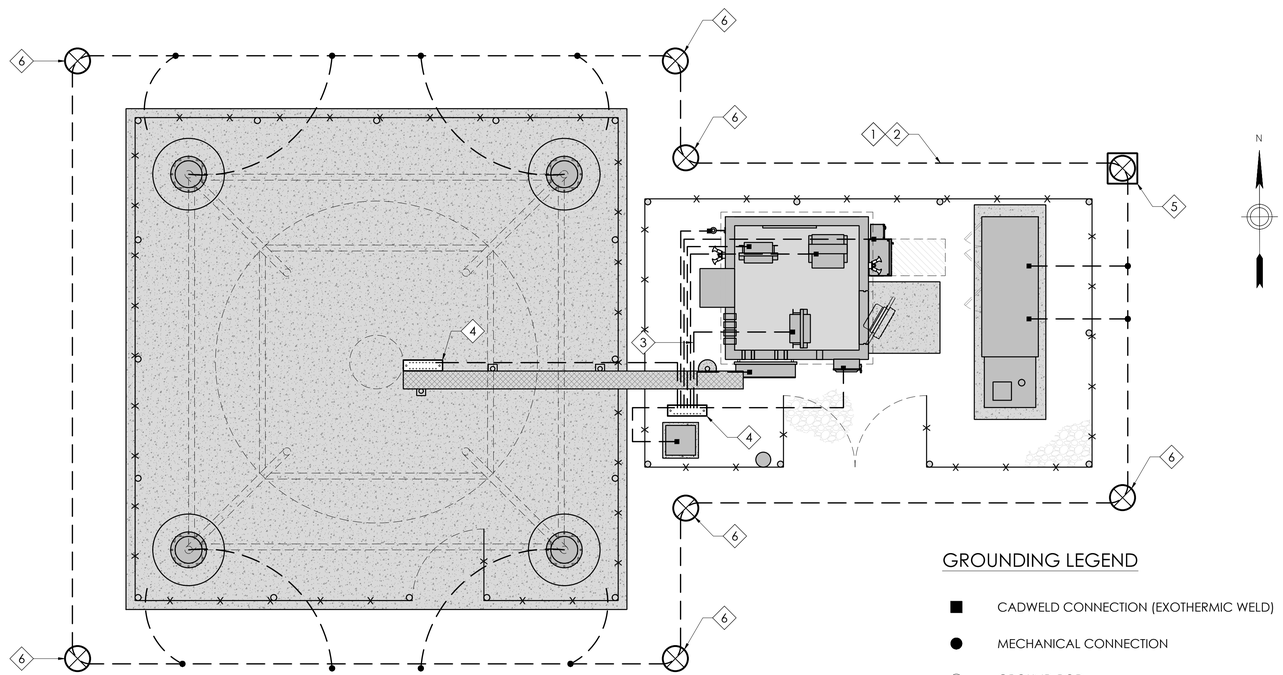
2 ANTENNA GROUNDING PLAN (TYP. PER SECTOR)

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

KEY NOTES:

1. AWG 2 BCW GROUND RING BURIED 30" BELOW GRADE
2. AWG 2 INSULATED COPPER GROUND WIRE (HALO GROUND)
3. AWG 2 INSULATED COPPER GROUND WIRE TO EQUIPMENT
4. MASTER GROUND BUS BAR INTERIOR & EXTERIOR OF EQUIPMENT SHELTER
5. GROUND TEST WELD
6. GROUND ROD





GROUNDING LEGEND

- CADWELD CONNECTION (EXOTHERMIC WELD)
- MECHANICAL CONNECTION
- GROUND ROD

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"
4' 3' 2' 1' 0" 4'

3 EQUIPMENT GROUNDING PLAN

APPLICANT:

AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:

CCL04383

5707 HIGHLAND ROAD

5707 HIGHLAND ROAD
SAN RAMON, CA 94583

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PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER
JEFF ERTELT
E 21680
ELECTRICAL
STATE OF CALIFORNIA
11/11/24

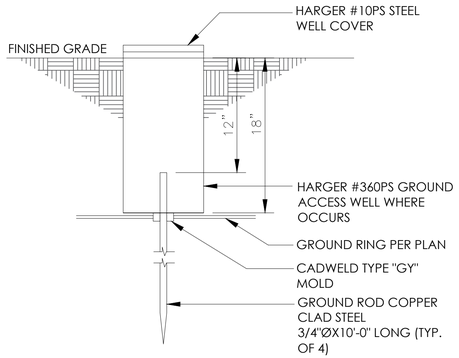
SHEET TITLE:

G-1

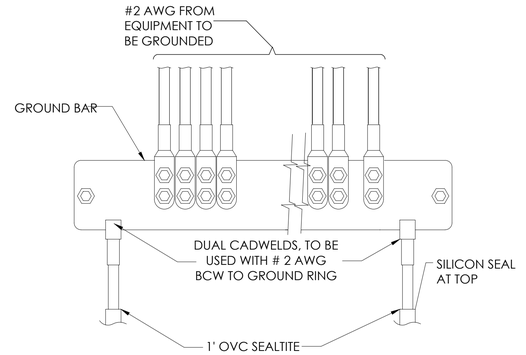
SHEET NAME:

GROUNDING PLANS & NOTES

12 NOT USED
N.T.S.

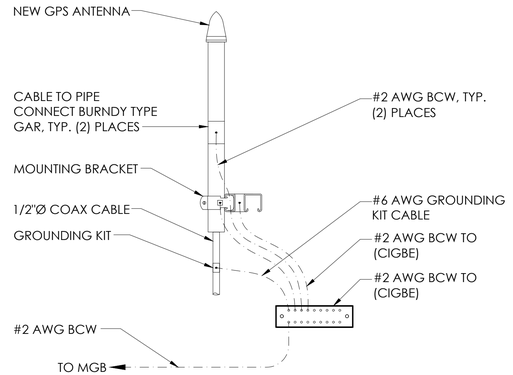


9 GROUND TEST WELL
N.T.S.



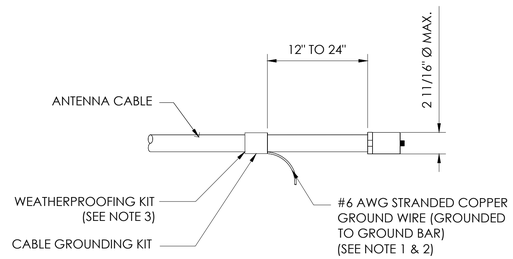
NOTE:
1. CONTRACTOR TO UTILIZE KOPR-SHIELD (THANS & BETTS) ON ALL LUG CONNECTIONS OR APPROVED EQUAL
2. ALL LUGS TO BE DUAL HOLE LONG BARREL AND CRIMPED TWICE WITH MFR'S RECOMMENDED TOOL

6 GROUND BAR CONNECTION
N.T.S.



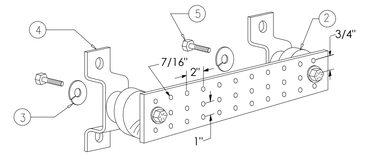
3 GPS ANTENNA GROUNDING
N.T.S.

11 NOT USED
N.T.S.



NOTE:
1 DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

8 CONNECTION OF GROUND KIT TO ANTENNA CABLE
N.T.S.



LEGEND

1- COPPER GROUND BAR, "X 1/4"X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)

2- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL

3- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUAL

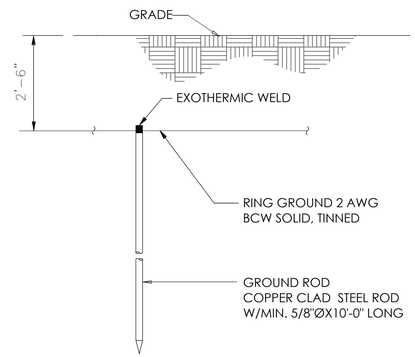
4- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR EQUAL

5- 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR EQUAL

6- INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

NOTE: ALL HARDWARE SHALL BE STAINLESS STEEL

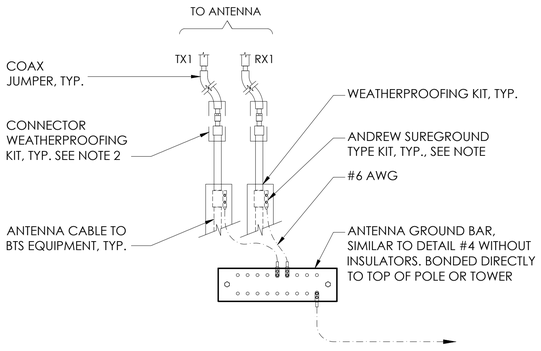
5 GROUND BAR DETAIL
N.T.S.



GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.

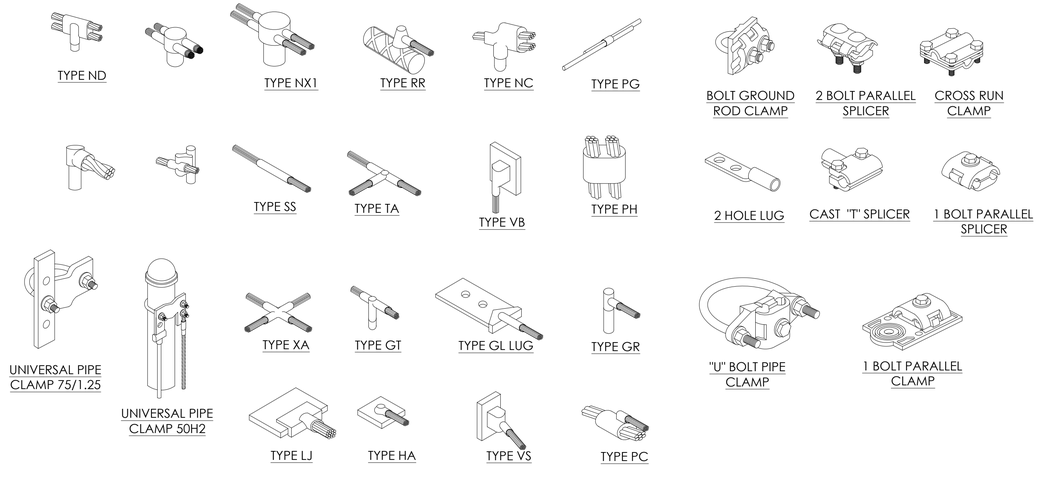
2 GROUND ROD DETAIL
N.T.S.

10 NOT USED
N.T.S.



NOTE:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE ANDREW TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED

7 GROUND CONNECTION TO GROUND BAR
N.T.S.



4 TYPICAL MECHANICAL CONNECTIONS
N.T.S.

APPLICANT:
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:
CCL04383
5707 HIGHLAND ROAD
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SAN RAMON, CA 94583

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PROFESSIONAL STAMP:
REGISTERED PROFESSIONAL ENGINEER
JEFF ERTELT
E 21680
ELECTRICAL
STATE OF CALIFORNIA
11/11/24

SHEET TITLE:
G-2

SHEET NAME:
GROUNDING DETAILS

NOTES TO CONTRACTOR:
1. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.

Diagram - Sector	A	Diagram File Name - CCL04383_Final_RFDS.vsdx					
Atoll Site Name -	CCL04383	Location Name -	CCL04383	Market -	SAN FRANCISCO	Market Cluster -	SAN FRANCISCO/SACRAMENTO
Comments:							

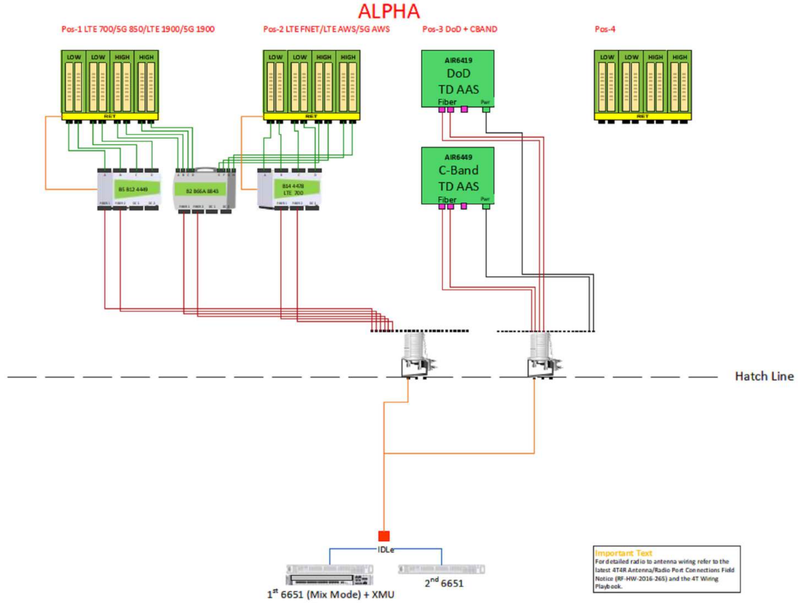
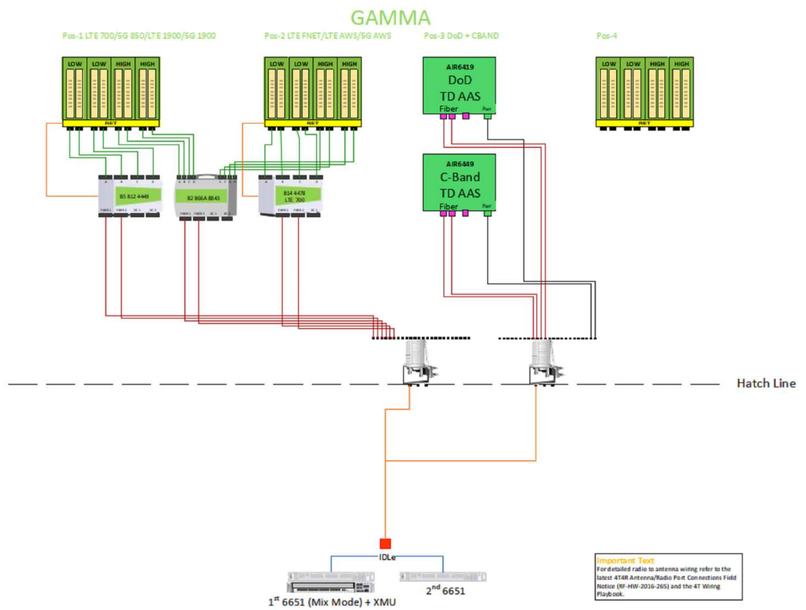


Diagram - Sector	A	Diagram File Name - CCL04383_Final_RFDS.vsdx					
Atoll Site Name -	CCL04383	Location Name -	CCL04383	Market -	SAN FRANCISCO	Market Cluster -	SAN FRANCISCO/SACRAMENTO
Comments:							



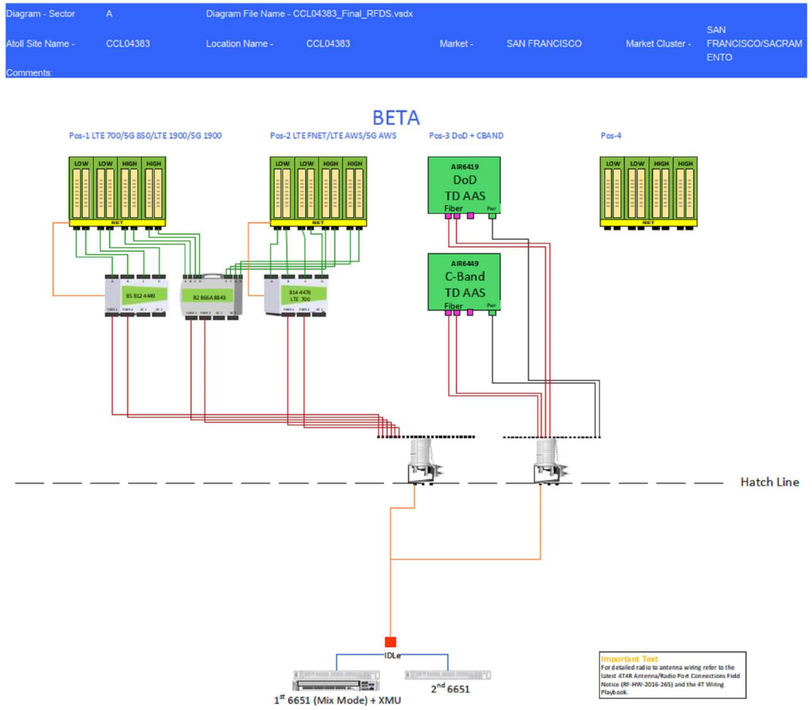
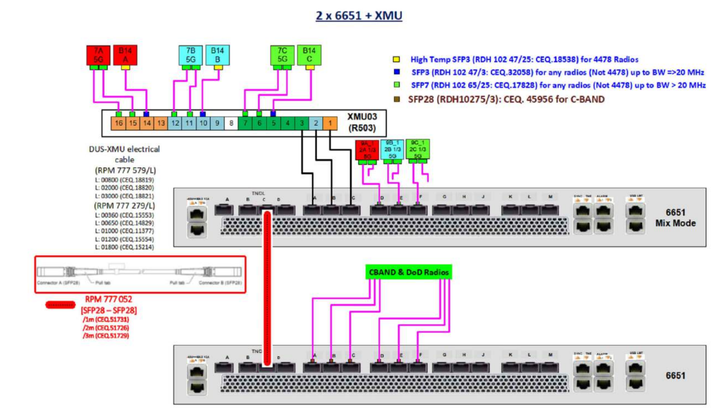


Diagram - Sector	A	Diagram File Name - CCL04383_Latest.vsdx					
Atoll Site Name -	CCL04383	Location Name -	CCL04383	Market -	SAN FRANCISCO	Market Cluster -	SAN FRANCISCO/SACRAMENTO
Comments:							



1 PLUMBING DIAGRAM
N.T.S.

APPLICANT:

AT&T

5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:

P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
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PROFESSIONAL STAMP:

REGISTERED PROFESSIONAL ENGINEER
JOSEPH M. TITZER
81603
CIVIL
STATE OF CALIFORNIA

SIGNED: 2024/11/11
EXPIRES: 2025/09/30

SHEET TITLE:

RF-1

SHEET NAME:

PLUMBING DIAGRAM

PowerSafe® SBS

Battery
Range Summary and Performance Specifications

The Original High Temperature battery - with a wide operating temperature: The PowerSafe® SBS battery range utilizes unique and proven technology to provide a superior range of valve regulated batteries with an extended service life in compact and energy dense configurations. PowerSafe SBS batteries are manufactured to the highest international standards and are ideal for reliable use in all wireless and fixed-line communication applications. PowerSafe SBS batteries are also widely used in cable TV Head-Ends, hybrid systems, power generation, offshore applications and various oil rig applications.

PowerSafe SBS top terminal batteries are available in capacities of 26 Ah to 170 Ah. SBS batteries are suitable for a wide range of telecom and reserve power applications especially where space is limited.

PowerSafe SBS batteries are designed to cope with elevated temperatures and harsh environments. The advanced Thin Plate Pure Lead (TPPL) technology and unique manufacturing methods, used by EnerSys®, make PowerSafe SBS batteries the choice for long and trouble-free service.

Powersafe SBS batteries have been developed to provide not only long float service life but also designed to provide controlled high cycling and fast recharge performance in unreliable grid applications.

Features and Benefits

- Capacity range 26 to 170Ah
- Multiple string configurations available
- Two year shelf life
- SR-4228 compliant
- Long service life
- High energy density and cycling capability

EnerSys
Power/Full Solutions

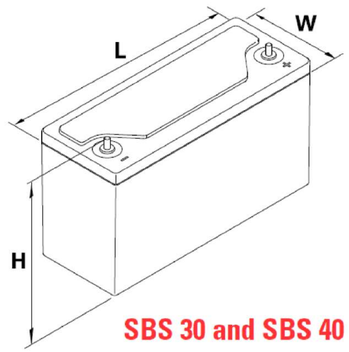
Visit us at www.enersys.com

General Specifications

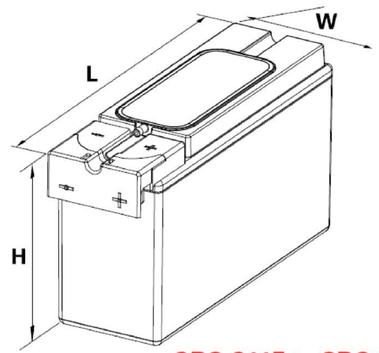
Battery Type	Number of Cells	Nominal Voltage (V)	Nominal Capacity 8hr. Rate 1.75Vpc @ 77°F	Nominal Capacity 10hr. Rate 1.80Vpc @ 68°F	Nominal Dimensions Length in	Length mm	Width in	Width mm	Height in	Height mm	Typical Weight lbs	Typical Weight kg	Short Circuit Current (Amps)	Internal** Resistance Milli-Ohms	Terminals	Electrolyte (1.300 S.G.) Volume (per bloc) gal	Volume (per bloc) L	Weight (per bloc) lbs	Weight (per bloc) kg	Pure Acid (H_2SO_4) Acid Volume (per bloc) gal	Volume (per bloc) L	Weight (per bloc) lbs	Weight (per bloc) kg	Lead Weight (per bloc) lbs	Lead Weight (per bloc) kg
SBS® 30	6	12	26	26	9.84	250	3.82	97.0	6.14	156	20.9	9.50	1556	7.90	M6 M	0.40	1.51	4.33	1.96	0.11	0.43	1.72	0.78	15.5	7.04
SBS 40	6	12	38	38	9.84	250	3.82	97.0	8.11	206	29.1	13.2	2184	5.60	M6 M	0.59	2.23	6.69	2.90	0.17	0.63	2.53	1.15	21.2	9.61
SBS C11F	6	12	91	92	16.4	417	4.13	105	10.1	256	61.6	27.9	2300	5.50	M6 M	1.28	4.85	13.9	6.29	0.36	1.36	5.50	2.49	43.3	19.7
SBS 100F	6	12	100	100	15.6	395	4.25	108	11.3	287	71.9	32.6	2210	5.60	M6 M	1.34	5.09	14.6	6.60	0.38	1.43	5.77	2.62	49.7	22.5
SBS 150	6	12	156	151	22.1	561	4.92	125	11.1	283	108	49.0	3330	3.80	M6 M	2.10	7.97	23.5	10.6	0.66	2.49	10.2	4.61	69.2	31.4
SBS 170F	6	12	170	170	22.1	561	4.92	125	11.1	283	116	52.5	3400	4.00	M6 M	2.09	7.92	22.7	10.3	0.59	2.23	8.99	4.08	82.0	37.2
SBS 190F	6	12	190	190	22.1	561	4.92	125	12.4	316	132	60.0	3800	3.30	M6 M	2.34	8.86	25.3	11.5	0.66	2.49	10.1	4.56	95.8	43.4

***Resistance values are for reference only and not intended to represent an Ohmic value or base line measurement*

Item Number	Item Description	OEM	Manufacturer Part Number
NEQ. 19853	EnerSys®, SBS®30, PowerSafe SBS 26AH 12V, Battery Module	EnerSys	SBS 30
NEQ. 12942	EnerSys, SBS 40, PowerSafe SBS 38AH 12V, Battery Module	EnerSys	SBS 40
NEQ. 19854	EnerSys, SBSC11F, PowerSafe SBS 91AH 12V, Battery Module	EnerSys	SBS C11F
NEQ. 19855	EnerSys, SBS 100F, PowerSafe SBS 100AH 12V, Battery Module	EnerSys	SBS 100F
NEQ. 19857	EnerSys, SBS 150, PowerSafe SBS 150AH 12V, Battery Module	EnerSys	SBS 150
NEQ.16622	EnerSys, SBS 170F, PowerSafe SBS 170AH 12V, Battery Module	EnerSys	SBS 170F
NEQ. 19858	EnerSys, SBS 190F, PowerSafe SBS 190AH 12V, Battery Module	EnerSys	SBS 190F



SBS 30 and SBS 40



SBS C11F to SBS 190F

BATTERY INFORMATION (VRLA TYPE BATTERIES)										
INSTALL STATUS	BATTERY MODEL	TOTAL # OF BATTERY UNITS INSTALLED (EA)	VOLTAGE (V)	AMP-HOURS (AH)	KWh, Kilowatt-hours = (V*AH)/1000	TOTAL BATTERY CAPACITY, KWh	STATIONARY BATTERY STORAGE SYSTEM THRESHOLD QUANTITY, PER CFC 2022 SECTION 1207	STATIONARY BATTERY STORAGE SYSTEM CODE CHECK	TOTAL ELECTROLYTE VOLUME (GALLONS) PER UNIT	TOTAL ELECTROLYTE BY VOLUME (GALLONS) =
PROPOSED	ENERSYS POWERSAFE SBS 190F	8	12	190	2.28	18.24			2.34	18.72
TOTAL		8				18.24	70	CFC 2022 SECTION 1207 DOES NOT APPLY		18.72

APPLICANT:
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:
PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE (678) 280-2325

SITE INFORMATION:
CCL04383
5707 HIGHLAND ROAD
5707 HIGHLAND ROAD
SAN RAMON, CA 94583

DESIGN RECORD:

REV	DATE	DESCRIPTION	INT.
A	09/24/24	ISSUED FOR 90%CD'S	BH
B	10/30/24	ISSUED FOR 95%CD'S	SMR
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:
REGISTERED PROFESSIONAL ENGINEER JOSEPH FITZSIMONS 81603 CIVIL STATE OF CALIFORNIA
SIGNED: 2024/11/11
EXPIRES: 2025/09/30
It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:
MSDS-1

SHEET NAME:
MATERIAL SAFETY DATA SHEET & LEAD ACID BATTERY -2

AT&T

This Site Operated by:

AT&T MOBILITY

5001 EXECUTIVE PKWY,
SAN RAMON, CA 94583
IN CASE OF FIRE AND THE NEED FOR SHUTDOWN
TO DEACTIVATE ANTENNAS CALL THE
FOLLOWING NUMBER:
For 24 Hour Emergency Contact and Access Please Call:
1-800-638-2822 (OPTION 9 AND 3)

Reference Site#: CCL04383

Site Address: 5707 HIGHLAND ROAD SAN RAMON, CA 94583

10 FENCED COMPOUND SIGNAGE
N.T.S.

DANGER

NO
TRESPASSING

INFORMATION

Federal Communications Communication
Tower Registration Number

1 2 3 4 5 6 7

Posted in accordance with federal Communications Commission rules and antenna tower registration 47CFR 17.4(g).

8"

12"

9 FENCED COMPOUND SIGNAGE
N.T.S.

6 FCC ASR SIGNAGE
N.T.S.

NOTICE

AUTHORIZED
PERSONNEL
ONLY

Property of AT&T

Authorized
Personnel Only

No Trespassing
Violators will be Prosecuted

In case of emergency, or prior to performing maintenance on this site, call _____
and reference cell site number _____

8 DOOR / EQUIPMENT SIGN
N.T.S.

5 GATE SIGNAGE
N.T.S.

NOTE:
1. CONTRACTOR SHALL INSTALL NFPA 704 SIGN REQUIRED ON EXTERIOR GATE AS WELL AS GENERATOR FUEL TANK

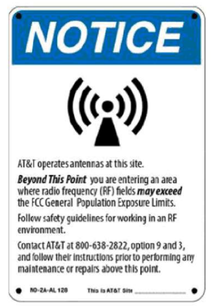
7 NFPA HAZARD SIGN - TYPICAL
N.T.S.

Property of AT&T

Authorized
Personnel Only

In case of emergency, or prior to performing maintenance on this site, call
and reference cell site number

4 SHELTER / CABINET DOORS SIGNAGE
N.T.S.



Notice Sign 2
(8" x 12")

Caution Sign 2
(8" x 12")

NOTES:

1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE w/ AT&T WIRELESS DOCUMENT, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.
2. ALL SIGNS HAVE THE SAME 8" X 12" DIMENSIONS (AVAILABLE IN DECAL AND ALUMINUM)

SIGNAGE VENDORS THAT CARRY AT&T RF SAFETY SIGNAGE:

EXCEL SIGN & DECAL, INC.
41353 ALBRAE STREET
FREMONT CA 94538
PHONE: 510.651.0445
FAX: 510.651.0444
EMAIL: SUPPORT@WENEEDSIGNS.COM
HTTP://WWW.WENEEDSIGNS.COM/HOME.PHP?CAT=337

2 ALERTING & INFORMATION SIGNAGE
N.T.S.

SIGNAGE AND STRIPING INFORMATION

1. THE FOLLOWING INFORMATION IS A GUIDELINE w/ RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATIONS SHOULD BE IN CONFLICT w/ ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.
2. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE W/ AT&T WIRELESS DOCUMENT #03-0074, RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.
3. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED, OR FIRE EGRESS) THEN BOTH BARRICADES AND STRIPING SHALL BE PLACED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING SHALL BE DETERMINED BY THE EMF REPORT. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.
4. STRIPING SHALL BE DONE w/ FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS-HATCH PATTERN AS DETAILED BY THE CONSTRUCTION DRAWINGS.
5. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO AS NOT TO BLOCK OR INTERFERE w/ THE OPERATION OF THE ANTENNAS. BARRICADES SHALL BE PAINTED w/ FADE RESTRAINT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED.

2 GENERAL NOTES
N.T.S.

EMERGENCY SHUT DOWN

FOR IMMEDIATE SHUT DOWN OF ALL RADIO FREQUENCY EMISSIONS OF THIS SITE,

1) CALL CONTACT NUMBER AND GIVE SITE IDENTIFICATION NO.
CONTACT PHONE NUMBER: 1-800-638-2822 (OPTION 9 AND 3)
SITE IDENTIFICATION NUMBER: CCL04383

2) DISCONNECT POWER AT MAIN SERVICE DISCONNECT:

3) DISCONNECT BACK-UP POWER AT BATTERY DISCONNECT:
LOCATED ON THE EXTERIOR OF SHELTER WALL

DRAWING NOTES:

1. SIGN SHALL BE A PHENOLIC LABEL WITH WHITE BACKGROUND AND BLACK LETTERING. THE TITLE BLOCK SHALL BE A RED BACKGROUND AND 1" HIGH WHITE LETTERING.
2. CONTRACTOR TO PLACE SIGNS IN FOLLOWING LOCATIONS:
   a. CELL SITE EQUIPMENT ROOM DOOR
   b. BATTERY LOCATION WITHIN PROXIMITY OF BATTERY DISCONNECT
   c. FCC ROOM WITHIN PROXIMITY OF THE FIRE ALARM PANEL
   d. BUILDING'S MAIN ELECTRICAL ROOM WITHIN PROXIMITY OF THE MAIN SHUTOFF AND/OR THE CELL SITE MAIN ELECTRICAL DISCONNECT

NOTE:
SIGN TO BE PERMANENTLY MOUNTED AT THE FOLLOWING LOCATIONS:

1. CELL SITE EQUIPMENT ROOM DOOR
2. BATTERY LOCATION WITHIN PROXIMITY OF BATTERY DISCONNECT
3. FCC ROOM WITHIN PROXIMITY OF THE FIRE ALARM PANEL
4. BUILDING'S MAIN ELECTRICAL ROOM WITHIN PROXIMITY OF THE MAIN SHUTOFF AND/OR THE CELL SITE MAIN ELECTRICAL DISCONNECT

1 EMERGENCY SHUT DOWN SIGN
N.T.S.

APPLICANT:
AT&T
5005 EXECUTIVE PARKWAY
SAN RAMON, CA 94583

VENDOR:
PM&A
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
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SITE INFORMATION:
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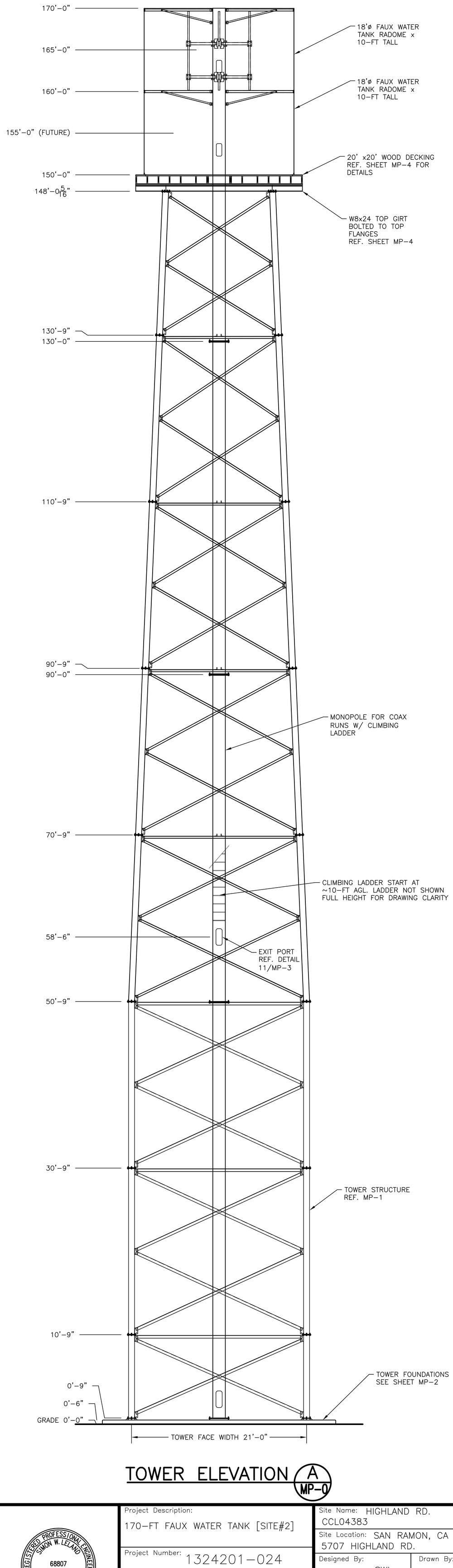
0	11/11/24	ISSUED FOR 100%CD'S	SMR

PROFESSIONAL STAMP:
REGISTERED PROFESSIONAL ENGINEER
JORDAN M. TATZEL
81603
CIVIL
STATE OF CALIFORNIA
SIGNED: 2024/11/11
EXPIRES: 2025/09/30

It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

SHEET TITLE:
SS-1

SHEET NAME:
SITE SIGNAGE



TOWER ELEVATION A MP-0

DESIGNED ACCORDING TO: ANSI/TIA-222-H MEETS THE REQUIREMENTS OF: 2022 CBC

THIS ANALYSIS HAS BEEN PERFORMED IN ACCORDANCE WITH THE 2022 CBC BASED UPON A WIND SPEED OF 93 MPH PER 2022 CBC SECTION 1609.3 AS REQUIRED FOR USE IN THE ANSI/TIA-222-H-2017 DESIGN STANDARD. RISK CATEGORY II HAS BEEN USED IN THIS ANALYSIS.

DESIGN SPECIFICATIONS			
DESIGNED ACCORDING TO: ANSI/TIA-222-H			
COMPLIES WITH: 2022 CALIFORNIA BUILDING CODE			
EARTHQUAKE DESIGN DATA			
(PER THE EQUIVALENT LATERAL FORCE PROCEDURE; SECTION 1613)			
IMPORTANCE FACTOR (I): 1		OCCUPANCY CATEGORY: Group I	
S_{DS}: 1.648	S_{D1}: 0.631	S_S: 2.060	S_1: 0.676
SEISMIC DESIGN CATEGORY: D; SITE CLASS C			
DESIGN BASE SHEAR = 50K (WIND)			
SEISMIC RESPONSE COEFFICIENT (C_S): 0.55			
RESPONSE MODIFICATION FACTOR (R): 3.0			
Wind Speed Load Cases: (According to the ANSI/TIA-222-H)			
STRUCTURE CLASS	EXPOSURE CATEGORY	TOPOGRAPHIC CATEGORY	CREST HEIGHT
II	C	3	315-FT
LOAD CASE 1: 93 MPH DESIGN WIND SPEED			
LOAD CASE 2: 60 MPH OPERATIONAL WIND SPEED			

POLE STEEL SPECIFICATIONS
POLE SHAFT SHAPE: ROUND
POLE SHAFT TAPER: 0.00000 inches/ft.
POLE SHAFT STEEL: ASTM A53 GR. B (35 ksi)
BASE PLATE STEEL: ASTM A572 GR. 50 (Fy= 50 ksi)
ANCHOR RODS: F1554 GR 105 x 72" LONG

MONOPOLE MAX. REACTIONS: (Maximum Factored Reactions)		
MOMENT:	150	ft-kips
SHEAR:	3.5	kips
AXIAL:	9.5	kips

POLE SHAFT SECTION DIMENSIONS (Bottom ↓ Top)

SECTION LENGTH (ft)	WALL THK. (inches)	SPLICE LENGTH (ft)	TOP DIA. (inches)	BOT. DIA. (inches)
40.00	0.375	0.00	18.00	18.00
40.00	0.25	0.00	18.00	18.00
39.25	0.25	0.00	18.00	18.00

APPURTENANCE LIST

Elev.(ft)	Equipment Description:
TOP	LIGHTNING ROD (OPTIONAL)
115.0	(6) DMP65R-BU8EA-K PANEL ANTENNA
115.0	(9) RRU (28"x18.5"x10"x85#)
115.0	4'-5" T-ARM ANTENNA MOUNT
105.0	(6) DMP65R-BU8EA-K PANEL ANTENNA
105.0	(9) RRU (28"x18.5"x10"x85#)
105.0	(3) AIR6419 B77G ANTENNA
105.0	(3) AIR 6449 B77D ANTENNA
105.0	(3) DC9-48-60-24-8C-EV SURGE SUPPRESSOR
105.0	4'-5" T-ARM ANTENNA MOUNT

NOTES: CLIMBING LADDER & SAFETY CABLE STARTING AT 10-FT AGL
ANTENNA COAX CABLES ROUTED INSIDE POLE SHAFT

GENERAL NOTES:

1. ALL STEEL SHALL MEET THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL" ASTM A36, UNLESS OTHERWISE NOTED ON THE STRUCTURAL PLANS OR BELOW.

2. ALL ROUND STEEL PIPE SHALL MEET THE REQUIREMENTS OF ASTM A53 TYPE E OR S GRADE B (35 KSI YIELD POINT MATERIAL) OR ASTM A501 (36 KSI YIELD POINT MATERIAL).

3. ALL TUBE STEEL (SQUARE OR RECTANGULAR) SHALL MEET THE REQUIREMENTS OF ASTM A500 GRADE B (46 KSI YIELD POINT MATERIAL).

4. ALL WELDED CONNECTIONS SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN WELDING SOCIETY AWS D1.1 CODE. ALL WELD ELECTRODES OR WIRE SHALL AT A MINIMUM CONFORM TO AWS E81T1-Ni1CJ H8 ELECTRODES (80 KSI YIELD).

5. ALL EXPOSED STEEL SHAPES AND PLATES SHALL BE HOT-DIPPED GALVANIZED ACCORDING TO ASTM A123. ALL EXPOSED STEEL NUTS AND BOLTS AND ASSOCIATED HARDWARE SHALL BE HOT-DIPPED ACCORDING TO ASTM A153.

6. THE TOWER & MONOPOLE STRUCTURE SHALL BE FABRICATED BY CHAMELEON ENGINEERING. FABRICATION DRAWINGS SHALL BE SUBMITTED TO DAVINCI ENGINEERING FOR REVIEW AND APPROVAL.

7. SPECIAL INSPECTION SHALL BE PERFORMED ACCORDING TO SECTION 1705 OF THE 2022 CBC. REFER TO TABLE 'SUMMARY OF SPECIAL INSPECTION' ON SHEET MP-1.

8. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO NOTIFY THE SPECIAL INSPECTOR OR INSPECTION AGENCY (OR THE INSPECTING GEOTECHNICAL ENGINEER) AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. PER THE 2022 CBC. ANY WORK THAT REQUIRES SPECIAL INSPECTION THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE SPECIAL INSPECTION IS SUBJECT TO REMOVAL.

9. THE LIST OF SPECIAL INSPECTIONS IS IN ADDITION TO INSPECTIONS REQUIRED BY SECTION 104.4 & 110 OF THE 2022 CBC. SPECIAL INSPECTION IS NOT A SUBSTITUTION FOR INSPECTION BY A CITY INSPECTOR.

10. THE SPECIAL INSPECTOR SHALL BE APPROVED BY THE LOCAL JURISDICTION TO PERFORM THE TYPES OF INSPECTION REQUIRED.

11. CONTINUOUS INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.

12. ANY SUPPORT SERVICE PERFORMED BY THE ENGINEER OF RECORD DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES, WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER OF RECORD ARE ONLY FOR THE PURPOSE OF ASSISTING IN THE QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH THE CONTRACT DOCUMENTS. THIS SUPPORT DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.

WORK PLATFORM DESIGN CRITERIA:

WORK PLATFORM DESIGNED PER TIA SECTION 12.0 AS DEFINED AS A "CLIMBER WORKING PLATFORM". STRENGTH REQUIREMENT AS PER SECTION 12.4. ADDITIONALLY LOAD COMBINATIONS PER: 2022 CBC SECTION 1605.2 HAVE BEEN CONSIDERED. MINIMUM UNIFORM LIVE LOAD OF 37 LBS. PER SQ. FT. OVER THE ENTIRE PLATFORM AND MINIMUM CONCENTRATED 375 LB. POINT LOAD AT ANY LOCATION (WORST CASE) ON THE PLATFORM AND A MINIMUM 600 LB. CONCENTRATED LOAD ON ANY POINT ON THE CLIMBING FACILITIES.

ERECTION NOTES:

1. ALL ANTENNA COAXIAL CABLES SHALL BE RUN INSIDE THE MONOPOLE SHAFT.

2. THE CONTRACTOR SHALL INSTALL THE ANTENNA AND MOUNT AS REQUIRED BY THE OWNER.

3. ALL ANCHOR BOLT NUTS SHALL BE TIGHTENED TO AISC SNUG TIGHT REQUIREMENTS. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXIST WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT, THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.

4. ALL GALVANIZED SURFACES THAT ARE DAMAGED BY ABRASIONS, CUTS, DRILLING OR FIELD WELDING DURING SHIPPING OR ERECTION SHALL BE TOUCHED UP WITH TWO COATS OF A COLD GALVANIZING COMPOUND MEETING THE REQUIREMENTS OF ASTM A780.

5. THE ANCHOR BOLT TEMPLATES AND BASE PLATE WILL TYPICALLY HAVE AN AZIMUTH WELDED OR A NOTCH INDICATING THE CORRECT ORIENTATION OF THE ANCHOR BOLTS. THIS IS NECESSARY TO PROPERLY ORIENT THE MONOPOLE EXIT PORTS.

BOLT INSTALLATION NOTES:

1. INSTALLATION OF BOLTS: BOLTS FOR TOWER AND ANTENNA SHALL BE INSTALLED WITH THE NUTS FACING TO THE OUTSIDE AND/ OR TO THE TOP OF THE TOWER, UNLESS PROHIBITED BY LACK OF CLEARANCE.

2. TIGHTENING OF BOLTS: BASED ON SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

A. SHEAR/ BEARING CONNECTIONS:
BOLTS IN CONNECTION NOT SUBJECT TO TENSION LOADS (SUCH AS BRACING BOLTS AND MOST ANTENNA MOUNT BOLTS) SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES, BUT NEED ONLY BE TIGHTENED TO THE SNUG TIGHT CONDITION. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXIST WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT, THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.

B. DIRECT TENSION CONNECTIONS:
CONNECTIONS SUBJECT TO DIRECT TENSION (SUCH AS FLANGES AND LEG SPLICES) SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY THE TURN OF THE NUT METHOD.

THE TURN OF THE NUT METHOD: BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION, BROUGHT TO A SNUG TIGHT CONDITION (AS DEFINED ABOVE). FOLLOWING THIS INITIAL OPERATION, ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE FOLLOWING AMOUNT OF ROTATION.

FOR BOLT LENGTH UP TO AND INCLUDING 4 DIAMETERS: 1/3 TURN
FOR BOLT LENGTH OVER 4 DIAMETERS BUT LESS THAN 8 DIAMETERS: 1/2 TURN
FOR BOLT LENGTH OVER 8 DIAMETERS BUT LESS THAN 12 DIAMETERS: 2/3 TURN

3. NUT LOCKING DEVICE: ALL NON PRETENSION NUTS SHALL BE EQUIPPED WITH SOME TYPE OF NUT LOCKING DEVISE TO PREVENT THE LOOSENING OF THE CONNECTION WITH TIME OR VIBRATION AND TO MITIGATE THE POTENTIAL FOR VANDALISM.

4. ALL A307 LAG SCREWS SHALL HAVE LEAD HOLES DRILLED ACCORDING TO THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.

SUMMARY OF SPECIAL INSPECTION		
NO.	DESCRIPTION OF TYPE OF INSPECTION REQ'D, LOCATION, REMARKS, ECT.	DESIGN STRENGTH
1.	FOUNDATION CONSTRUCTION:	
A.	GEOTECHNICAL ENGINEER OF RECORD MAY SERVE AS THE SPECIAL INSPECTOR FOR THE FOUNDATION CONSTRUCTION.	PER 2022 CBC
B.	SHALL VERIFY THE DIAMETER, DEPTH, AND QUALITY OF THE EXCAVATION PRIOR TO THE CONCRETE PLACEMENT	INSPECT AND REPORT
C.	SHALL VERIFY THAT THE ON SITE SOILS ARE AS DETERMINED IN THE SOIL REPORT.	INSPECT AND REPORT
2.	CAST IN PLACE CONCRETE (FOUNDATION):	
A.	REINFORCING CAGE SHALL BE INSPECTED TO ENSURE THAT THE PROPER GEOMETRY, SIZE, LENGTH, QUANTITY AND GRADE MATERIAL ARE USED.	60 KSI (40 KSI TIES)
B.	ALL CONCRETE SHALL BE AS SPECIFIED BY ACI-318, LATEST EDITION, TO ENSURE THE COMPRESSIVE STRENGTH IS ATTAINED AS DESCRIBED IN THE FOUNDATION NOTES.	4000 PSI @ 28 DAYS
C.	CONTINUOUS INSPECTION IS REQ'D DURING THE CONCRETE PLACEMENT	INSPECT AND REPORT
3.	ANCHOR BOLTS INSTALLED IN CONCRETE:	
A.	PLACEMENT SHALL BE ORIENTED ON PROPER BOLT CIRCLE AS SHOWN ON THE STRUCTURAL PLANS, WITH TOP AND BOT. TEMPLATES INSTALLED.	INSPECT AND REPORT
B.	SHALL BE PLUMB FOR MONOPOLE AND CANTED FOR TOWER	INSPECT AND REPORT
C.	SHALL HAVE A MINIMUM EMBEDMENT OF 62 INCHES INTO FOUNDATION (9 INCH MAXIMUM PROJECTION)	INSPECT AND REPORT
D.	SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION PER AISC STEEL MANUAL OF STEEL CONSTRUCTION.	INSPECT AND REPORT
4.	HIGH STRENGTH BOLTING:	
A.	ALL A325 BOLTS SHALL BE TIGHTENED ACCORDING TO THE BOLT INSTALLATION NOTES ON SHEET MP-1.	INSPECT FOR LOCKING DEVISE OR CONT. INSP. FOR PRE TENSIONED BOLTS
5.	FIELD WELDING:	
A.	NO FIELD WELDING SHALL BE PERMITTED.	NOT PERMITTED
6.	SHOP WELDING:	
A.	ALL SHOP WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY AN APPROVED FABRICATOR'S SHOP PER 2022 CBC SECTION 1704	PROVIDE CERTS.
B.	ALL WELDED CONNECTIONS SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN WELDING SOCIETY A.W.S. D1.1	INSPECT AND REPORT
C.	WELD ELECTRODES SHALL CONFORM TO E80 ELECTRODES OR WIRE.	E-80XX
D.	CONTINUOUS INSPECTION OF SHOP WELDING IS NOT REQUIRED. VISUAL INSPECTION SHALL BE PERFORMED BEFORE AND AFTER GALVANIZING.	VISUAL INSPECTION PER EOR
E.	IF A WELD IS IN QUESTION PER THE VISUAL INSPECTION THEN IT SHALL BE TESTED USING AN APPROPRIATE TEST, EX. DIE PENETRATION, OR MAGNETIC PARTICLE, U.T. ECT.	INSPECT AND REPORT

Sheet No. MP-0

REGISTERED PROFESSIONAL ENGINEER SIMON W. LELAND 68807 Exp. 9/30/25 CIVIL STATE OF CALIFORNIA
10/30/2024

Project Description: 170-FT FAUX WATER TANK [SITE#2]
Project Number: 1324201-024
CHAMELEON ENGINEERING 24-578
Owner: AT&T WIRELESS

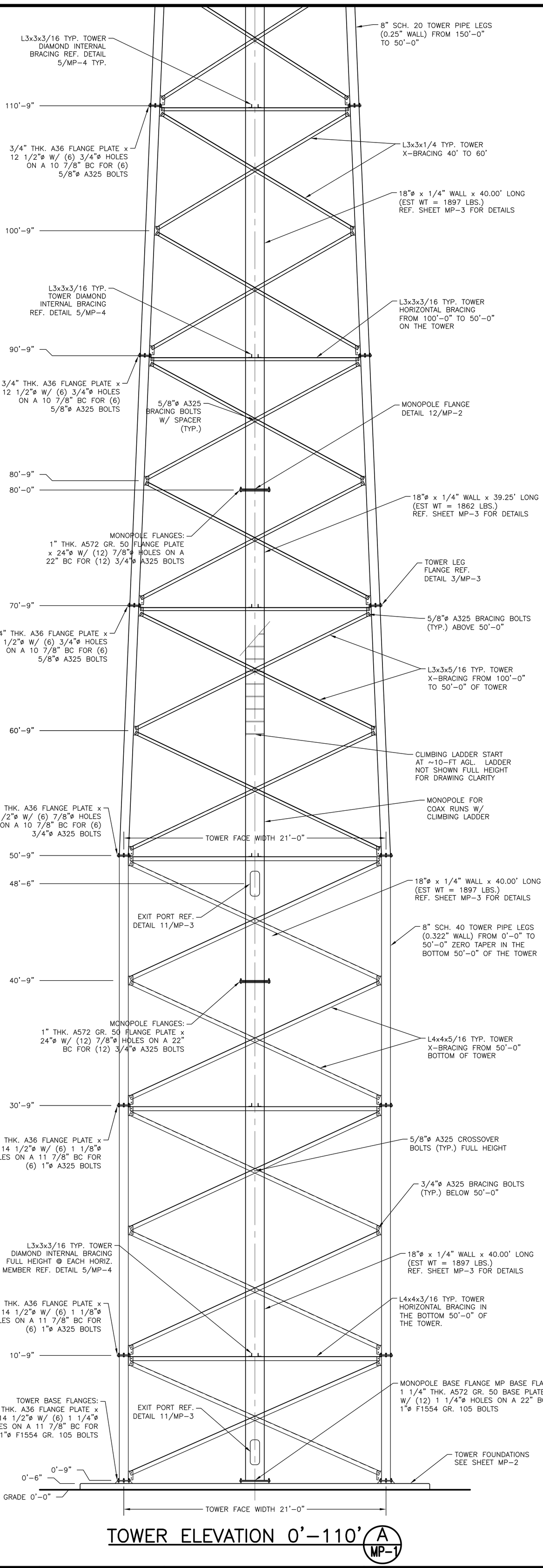
Site Name: HIGHLAND RD. CCL04383
Site Location: SAN RAMON, CA 5707 HIGHLAND RD.
Designed By: SWL | Drawn By: SWL
Date: 8/16/2024
Scale: NTS/_AS_NOTED

Revision:	Description:
REV. # 1; 10/29/2024	REVISED FND STYLE

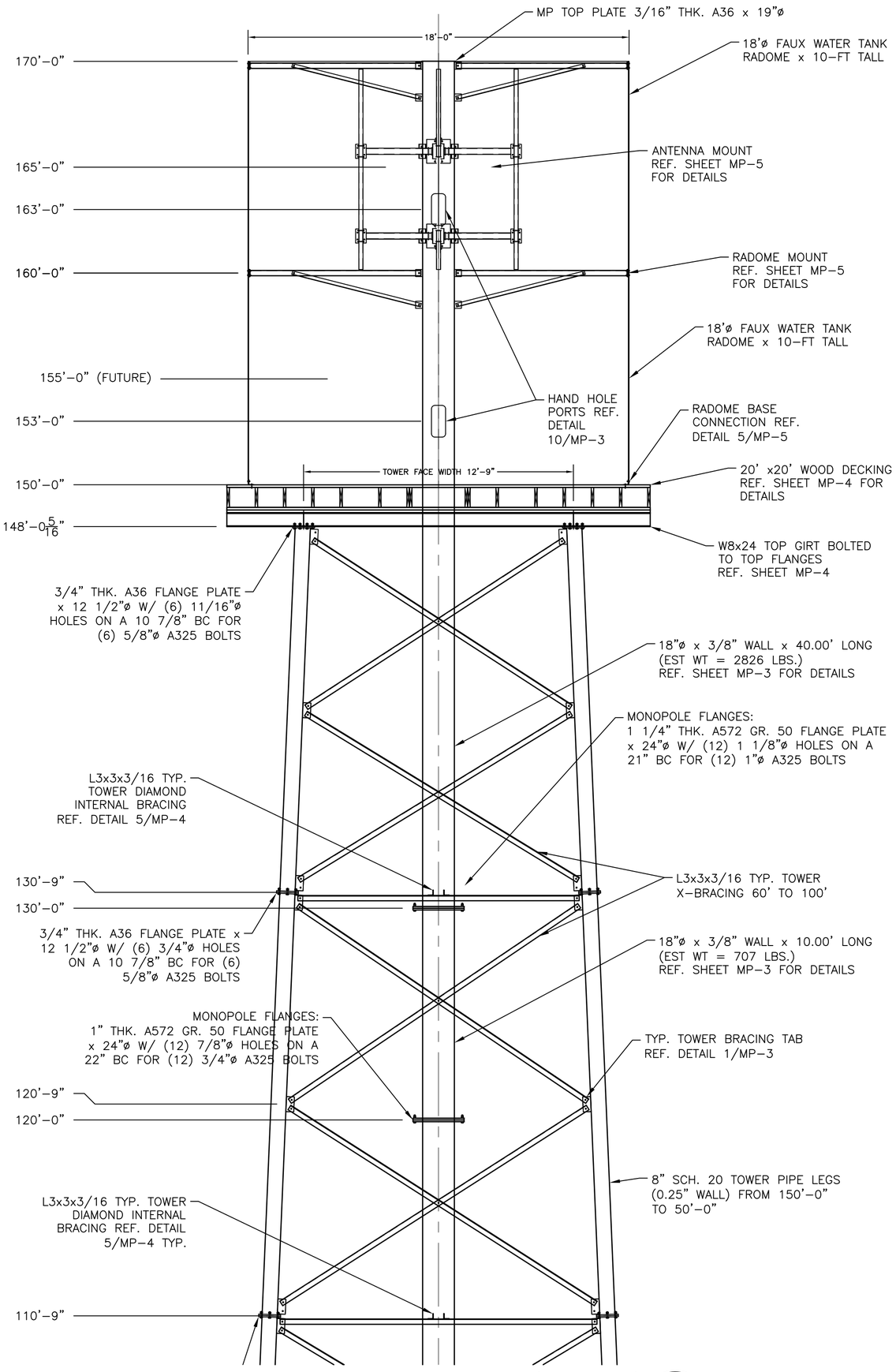
APPROVED FOR FABRICATION
By: _____ Date: _____

CHAMELEON ENGINEERING
237 Town Center West PMB 140
Santa Maria, CA 93457
(775) 434-8733

DaVinci Engineering, Inc.
191 S. HOUSE ROCK DR.
CEDAR CITY, UT 84720
(805) 922-5221



TOWER ELEVATION 0'-110' (A) MP-1



TOWER ELEVATION 110'-170' (B) MP-1

Sheet No. MP-1	REGISTERED PROFESSIONAL ENGINEER SIMON W. LELAND 68807 Exp. 9/30/25 CIVIL STATE OF CALIFORNIA 10/30/2024	Project Description: 170-FT FAUX WATER TANK [SITE#2]	Site Name: HIGHLAND RD. CCL04383
		Project Number: 1324201-024	Site Location: SAN RAMON, CA 5707 HIGHLAND RD.
		CHAMELEON ENGINEERING 24-578	Designed By: SWL / Drawn By: SWL
		Owner: AT&T WIRELESS	Date: 8/16/2024
			Scale: NTS/_AS_NOTED

Revision:	Description:
REV. # 1; 10/29/2024	REVISED FND STYLE

APPROVED FOR FABRICATION

By: _____ Date: _____

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191 S. HOUSE ROCK DR.
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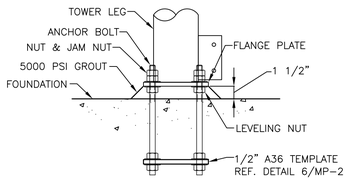
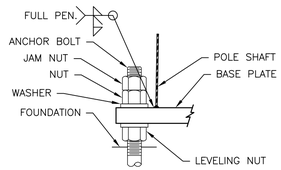
FOUNDATION DESIGN



TOWER BASE 1 MP-2



POLE BOLTS 2 MP-2

FOUNDATION NOTES:

1. THE GEOTECHNICAL ENGINEER (OR THE APPROPRIATE INSPECTOR) SHALL INSPECT THE EXCAVATION PRIOR TO PLACING REINFORCING STEEL OR FORMS. THE GEOTECHNICAL ENGINEER (OR INSPECTOR) SHALL PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORDS PURPOSE.

2. THE CONTRACTOR SHALL DETERMINE THE MEANS AND METHODS TO SUPPORT THE EXCAVATION DURING CONSTRUCTION. REFER TO THE GEOTECHNICAL REPORT FOR RECOMMENDATIONS.

3. THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT AND SHALL CONSULT THE GEOTECHNICAL ENGINEER AS NECESSARY PRIOR TO CONSTRUCTION.

4. FOUNDATION DESIGN IS BASED ON SITE SPECIFIC GEOTECHNICAL REPORT BY: MID PACIFIC ENGINEERING, INC. REFERENCE #06912-02 DATED OCTOBER 18, 2024 AND SUPPLEMENTAL RECOMMENDATIONS LETTER DATED OCTOBER 24, 2024.

5. ALL FOUNDATION CONCRETE SHALL USE TYPE II CEMENT AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI WITHIN 28 DAYS OF PLACEMENT. PROPORTIONING OF THE CONCRETE MIX SHALL BE DESIGNED BY AN APPROVED LABORATORY. COPIES OF EACH MIX SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND COMMENTS PRIOR TO PLACING ANY CONCRETE. CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.46 AND SHALL BE AIR ENTRAINED 4.5% (±1.5%). ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318, "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION. CEMENT SHALL BE LOW ALKALI, CONFORMING TO ASTM C-150. ALL AGGREGATE USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. MAXIMUM AGGREGATE SIZE TO BE 1 1/2 INCH."

6. FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 318, LATEST EDITION. CONCRETE CYLINDERS SHALL BE MADE AND TESTED. A MINIMUM OF ONE (1) SET SHALL BE TAKEN FROM CONCRETE IN FOUNDATION. EACH SET SHALL CONSIST OF THREE (3) CYLINDERS. ONE SHALL BE TESTED AT SEVEN (7) DAYS, THE SECOND SHALL BE TESTED AT TWENTY EIGHT (28) DAYS AND THE LAST CYLINDER SHALL BE A HOLD. ALL CYLINDERS SHALL BE TAKEN, PREPARED AND TESTED BY A TESTING LAB IN ACCORDANCE WITH ASTM STANDARDS C172, C31 AND C39.

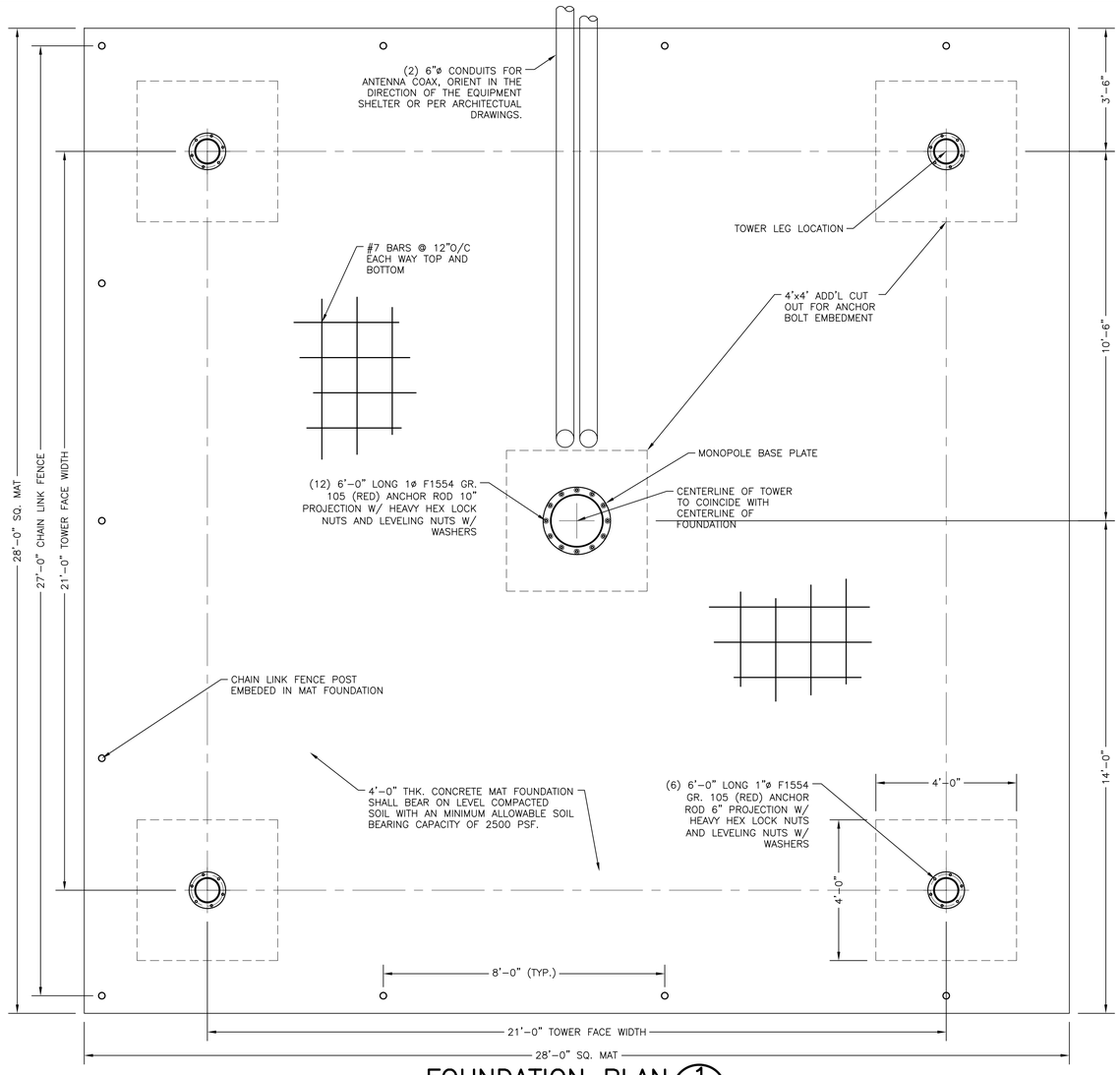
7. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615. PRIMARY REINFORCING BARS SHALL BE GRADE 60, AND TIES OR STIRRUPS SHALL BE A MINIMUM OF GRADE 40. THE PLACEMENT OF ALL REINFORCEMENT SHALL CONFORM TO ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION, UNLESS OTHERWISE DETAILED ON THIS SHEET.

8. ESTIMATED CONCRETE VOLUME = 122 CUBIC YARDS.

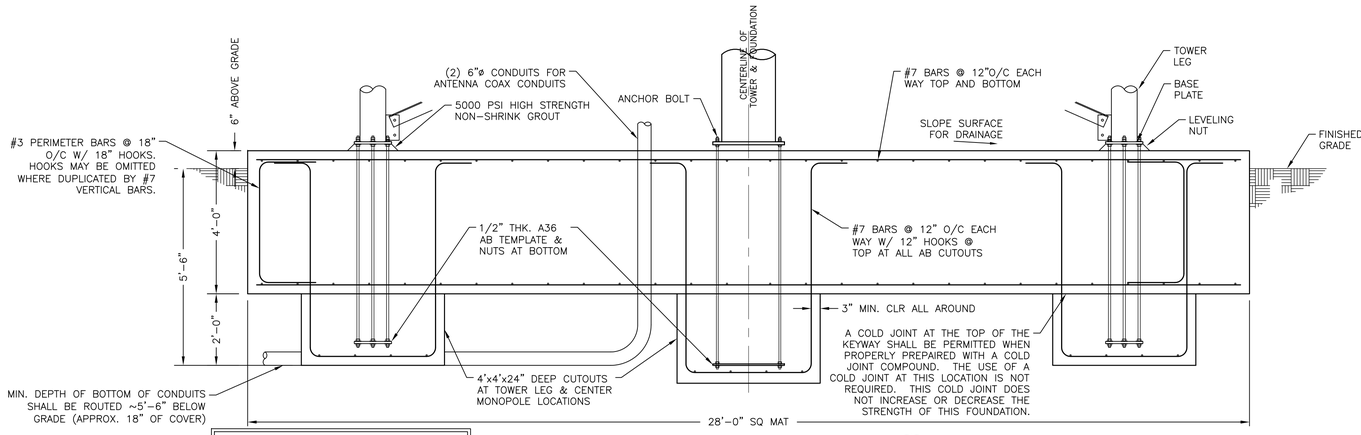
9. THE TOWER LEG FOUNDATION HAS BEEN DESIGNED TO RESIST THE FOLLOWING FACTORED LOADS: UPLIFT: 165 KIPS; COMPRESSION: 190 KIPS; SHEAR: 25 KIPS;

10. THE MONOPOLE FOUNDATION HAS BEEN DESIGNED TO RESIST THE FOLLOWING FACTORED LOADS: MOMENT: 150 FT*KIPS; SHEAR: 3.5 KIPS; AXIAL: 25 KIPS

Additional Notes:



FOUNDATION PLAN 1 MP-2



FOUNDATION SHALL BEAR ON LEVEL COMPACTED SOIL WITH AN MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 2500 PSF PER THE GEOTECHNICAL REPORT.

FOUNDATION ELEVATION 2 MP-2

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(775) 434-8733

Revision:	Description:
REV. # 1: 10/29/2024	REVISED FND STYLE
	APPROVED FOR FABRICATION

Date:

By:

Site Name: HIGHLAND RD.
CCL04383
Site Location: SAN RAMON, CA
5707 HIGHLAND RD.
Designed By: SWL
Drawn By: SWL
Date: 8/16/2024
Scale: NTS/_AS_NOTED

Project Description: 170-FT FAUX WATER TANK [SITE #2]
Project Number: 1324201-014
CHAMELEON ENGINEERING 24-578
Owner: AT&T WIRELESS

REGISTERED PROFESSIONAL ENGINEER
SIMON W. LEUNG
68807
Exp. 9/30/25
CIVIL
STATE OF CALIFORNIA
10/30/2024

Sheet No.
MP-2

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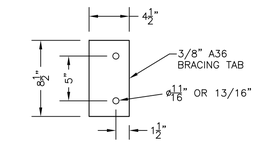
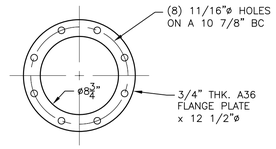
TOWER LEG DETAILS

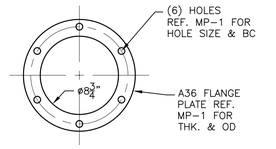


STD TABS 1 MP-3

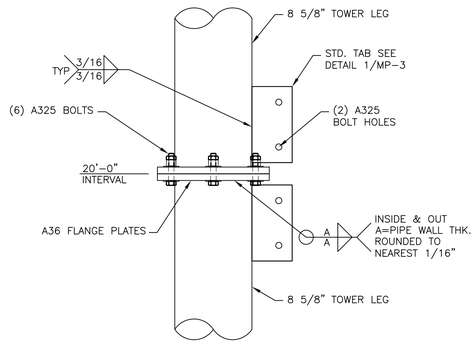
SCALE: 1/8"=1"
ASTM A36



TOP FLANGE PLATE 2 MP-3

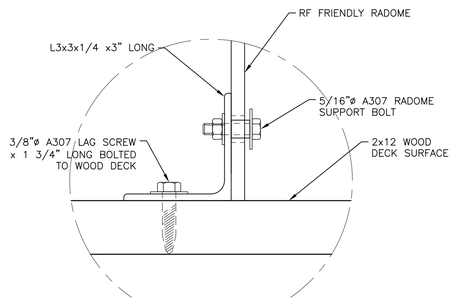


TYP. FLANGE PLAN 3 MP-3

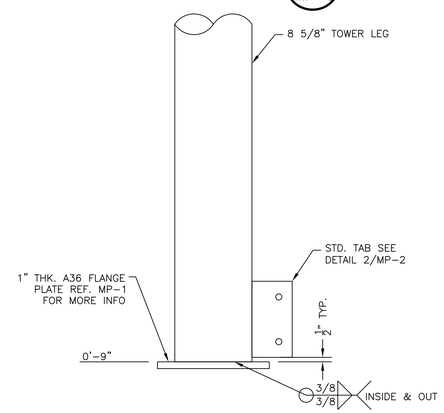


FLANGE PLATE 4 MP-5

THE RADOME CONNECTION IS DESIGNED TO CAPTURE THE RADOME SHROUD WITHOUT CLAMPING IT TO THE STEEL STRUCTURE AND IT ALLOWS THE RADOME TO FREELY FLOAT WITHIN THE SPACE OF THE OVERSIZED HOLES. THIS IS THE STANDARD CONNECTION FOR ALL RAOMDE BOLTS.



RADOME CONNECTION 6 MP-3

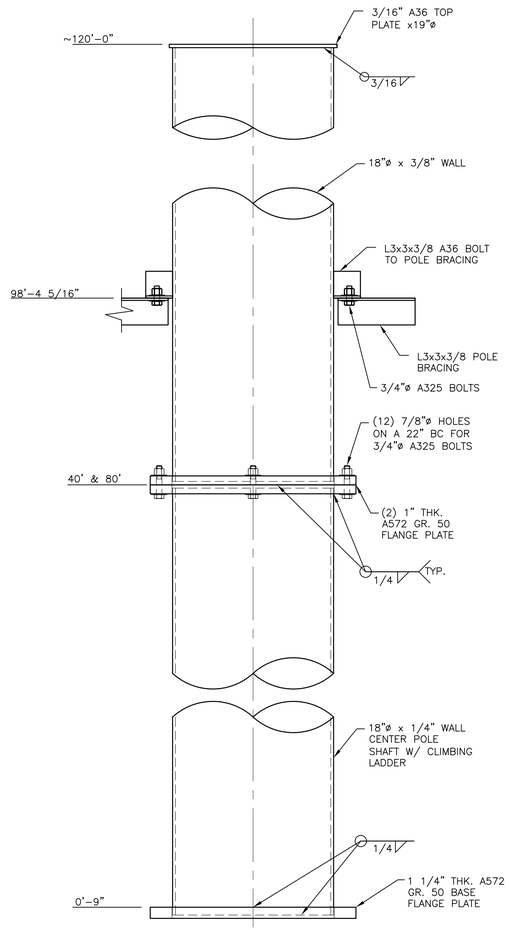


BASE FLANGE PLATE 5 MP-3

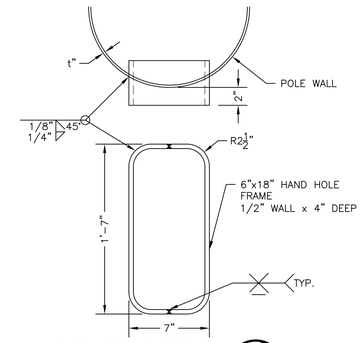
Additional Notes:

MONOPOLE DETAILS

COAX PORT HOLE SCHEDULE				
ELEVATION (AGL)	PORT SIZE	QTY	AZIMUTH (DEG.)	REFERENCE DETAIL
163'-0"	6"x18"	3	80,200,320	10\MP-3
153'-0"	6"x18"	3	80,200,320	10\MP-3
48'-6"	9"X24"	2	45,225	11\MP-3
3'-0"	9"x24"	2	90,270	11\MP-3

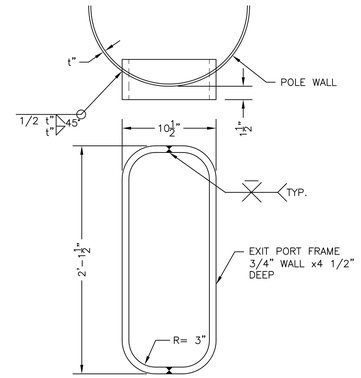


POLE SHAFT 8 MP-3



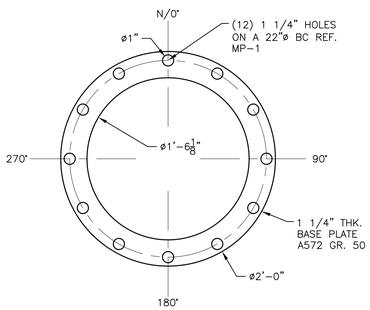
HAND HOLE 10 MP-3

ASTM A572 GR. 50 (50 KSI)

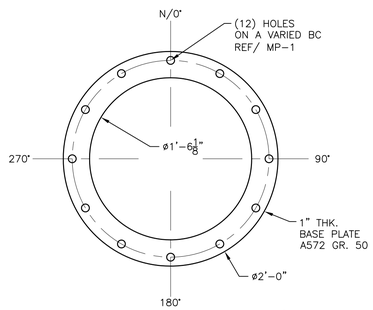


EXIT PORT 11 MP-3

ASTM A572 GR. 65 (65 KSI)



BASE PLATE 9 MP-3



FLANGE PLATE 12 MP-3

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Revision: REV. # 1; 10/29/2024
Description: NO CHANGES THIS SHEET
APPROVED FOR FABRICATION
Date:
By:

Site Name: HIGHLAND RD.
CCL04383
Site Location: SAN RAMON, CA
5707 HIGHLAND RD.
Designed By: SWL
Drawn By: SWL
Date: 8/16/2024
Scale: NTS/_AS_NOTED

Project Description: 170-FT FAUX WATER TANK [SITE #2]
Project Number: 1324201-014
CHAMELEON ENGINEERING 24-578
Owner: AT&T WIRELESS

REGISTERED PROFESSIONAL ENGINEER
SIMON W. LELAND
68807
Exp. 9/30/25
CIVIL
STATE OF CALIFORNIA
10/30/2024

Sheet No.
MP-3

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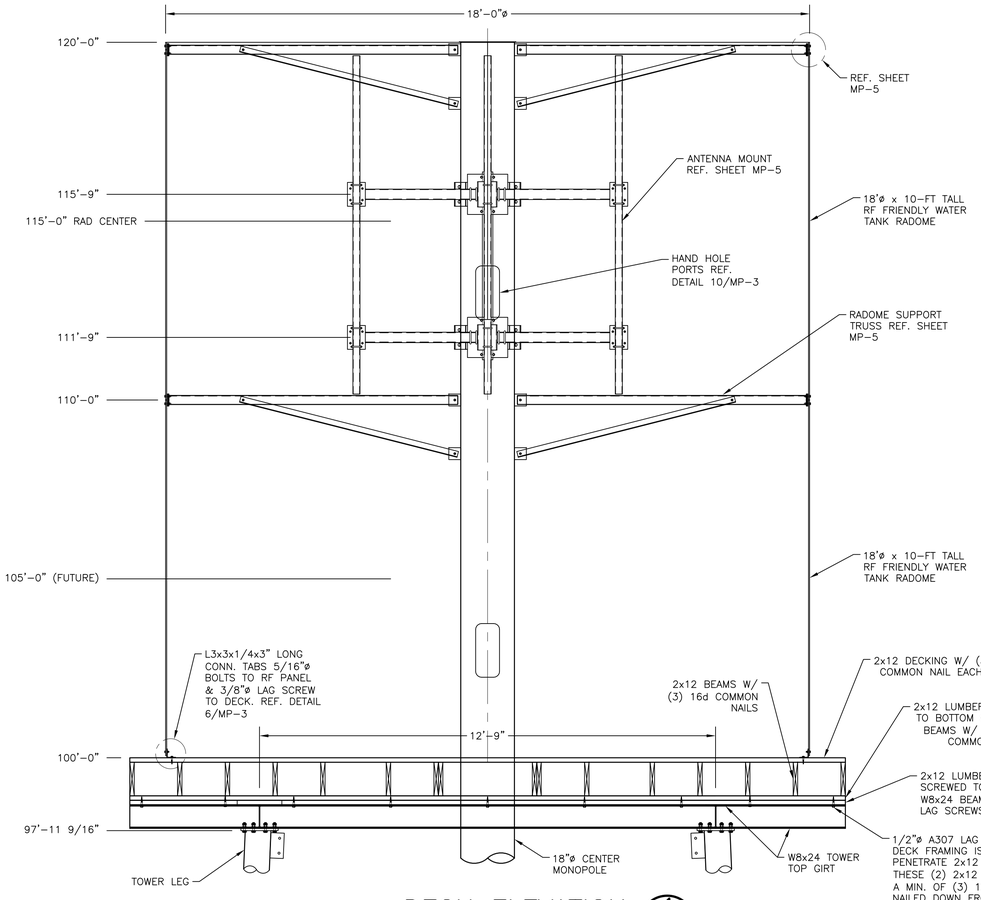
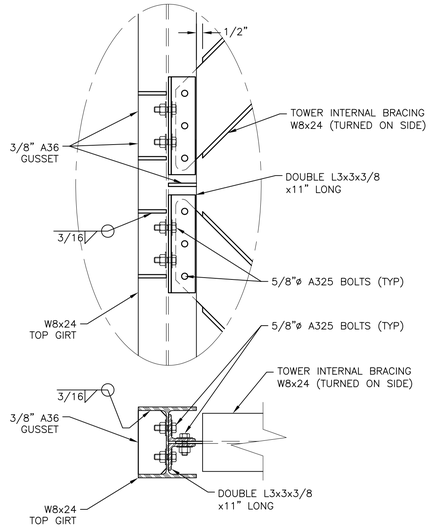
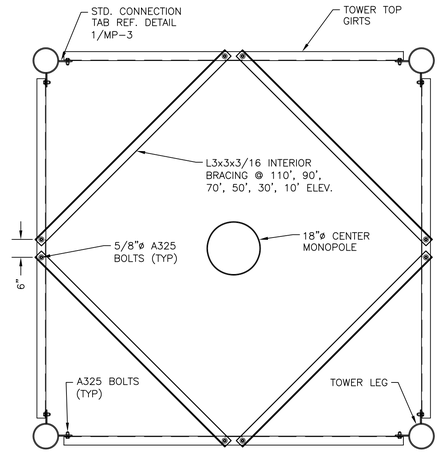


DECK ELEVATION 1 MP-4



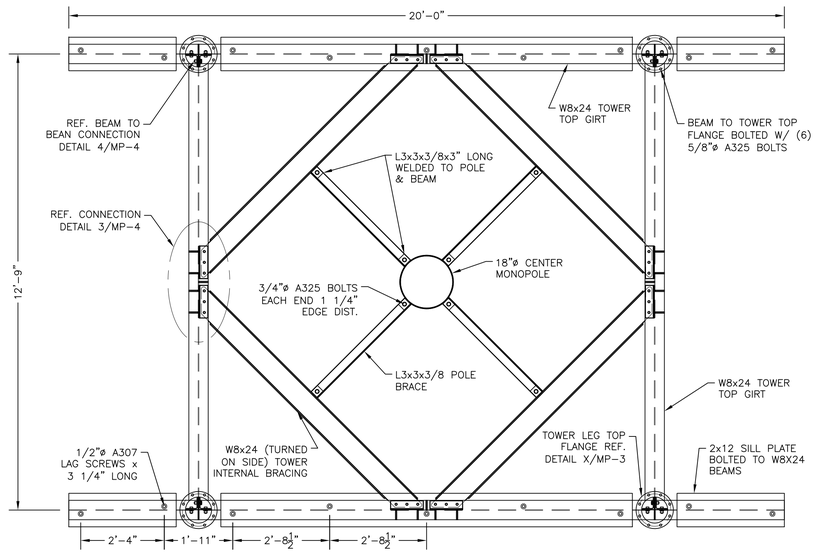
TOP INTERNAL BRACING 3 MP-4

@ TOWER TOP GIRT (98'- 4 5/16")

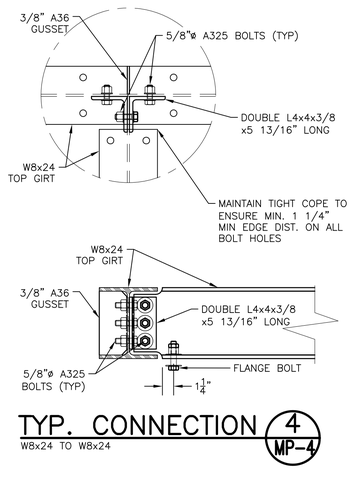


INTERNAL BRACING 5 MP-4

@ LOWER TOWER TOP GIRTS (80'-9" - 20'-9")

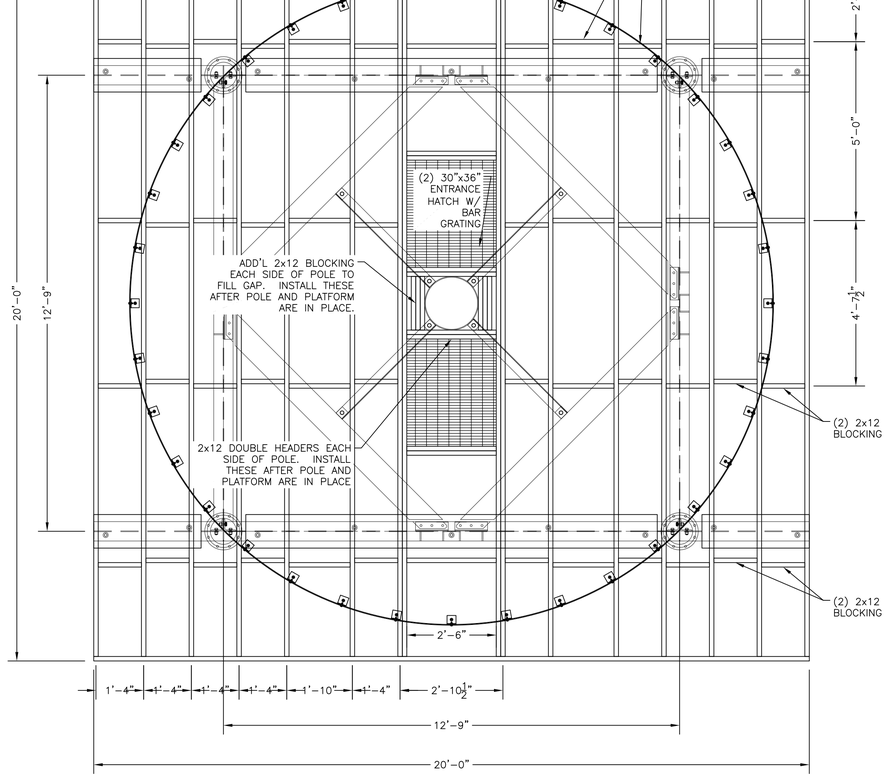


TOP GIRT BRACING 2 MP-4



TYP. CONNECTION 4 MP-4

W8x24 TO W8x24



DECK PLAN VIEW 6 MP-4

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Site Name: HIGHLAND RD.
CCL04383
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5707 HIGHLAND RD.
Designed By: SWL
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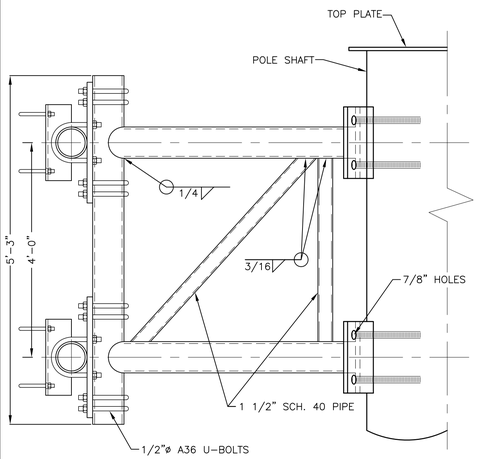
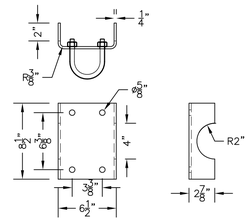
Project Number: 13242O1-014
CHAMELEON ENGINEERING 24-578
Owner: AT&T WIRELESS

REGISTERED PROFESSIONAL ENGINEER
SIMON W. LELAND
68807
Exp. 9/30/25
CIVIL
STATE OF CALIFORNIA
10/30/2024

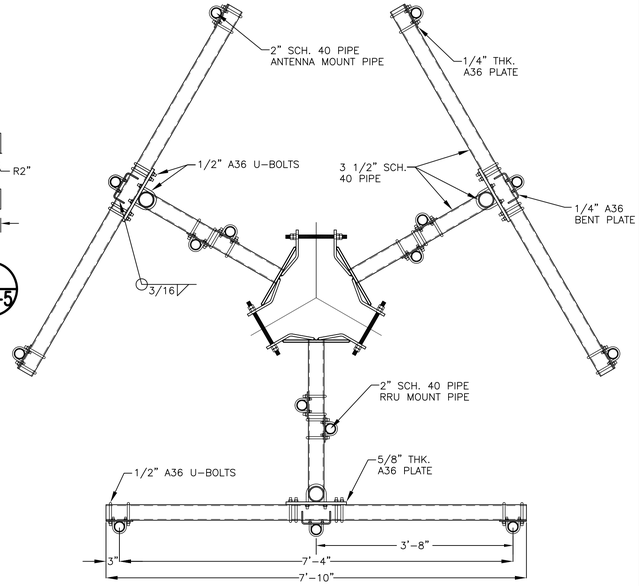
Sheet No.
MP-4

ANTENNA MOUNT DETAILS

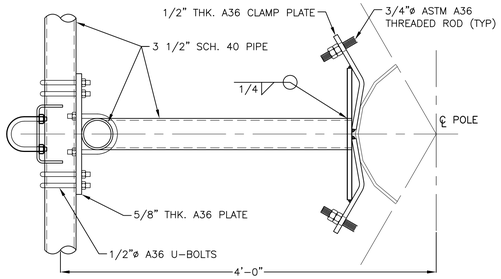




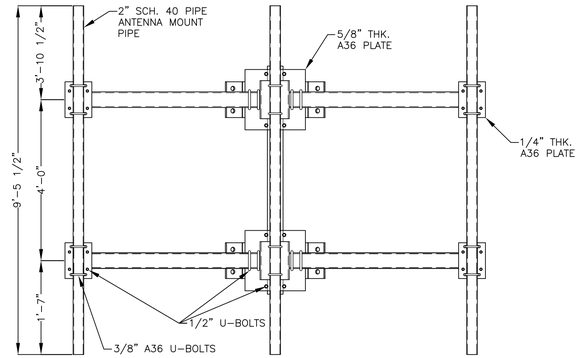
BENT PLATE 5 MP-5



PLAN VIEW A
8'-0" CLAMP-ON DUAL T-ARMS MP-5



T-ARM ASSEMBLY DETAIL 1 MP-5
SCALE: NTS



ELEVATION VIEW B
8'-0" CLAMP-ON DUAL T-ARMS MP-5

MOUNT NOTES:
1. ALL STEEL SHALL MEET THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL" ASTM A36, UNLESS OTHERWISE NOTED ON THE STRUCTURAL PLANS OR BELOW.

2. ALL ROUND STEEL PIPE SHALL MEET THE REQUIREMENTS OF ASTM A53 TYPE E OR S GRADE B (35 KSI YIELD POINT MATERIAL) OR ASTM A501 (36 KSI YIELD POINT MATERIAL).

3. ALL TUBE STEEL (SQUARE OR RECTANGULAR) SHALL MEET THE REQUIREMENTS OF ASTM A500 GRADE B (46 KSI YIELD POINT MATERIAL).

4. ALL WELDED CONNECTIONS SHALL CONFORM TO THE LATEST VERSION OF THE AMERICAN WELDING SOCIETY AWS D1.1 CODE. ALL WELD ELECTRODES OR WIRE SHALL AT A MINIMUM CONFORM TO AWS E60 ELECTRODES (60 KSI YIELD).

5. ALL STEEL SHAPES AND PLATES SHALL BE HOT-DIPPED GALVANIZED ACCORDING TO ASTM A123. ALL STEEL NUTS AND BOLTS AND ASSOCIATED HARDWARE SHALL BE HOT-DIPPED ACCORDING TO ASTM A153.

6. THE ANTENNA MOUNT SHALL BE FABRICATED BY CHAMELEON ENGINEERING OR AN APPROVED FABRICATOR OF CONVENTIONAL STEEL STRUCTURES.

7. THIS ANTENNA MOUNT HAS BEEN DESIGNED TO SUPPORT ANTENNA & EQUIPMENT AS SPECIFIED ON SHEET MP-1 OF THESE DRAWINGS.

8. EST. WEIGHT OF STD. 4'-5" MOUNT (3 SECTORS) WITH STANDARD 8'-6" MOUNT PIPES IS APPROXIMATELY 1240 LBS.

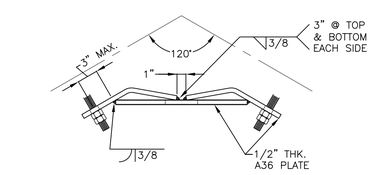
ERECTION NOTES:
1. THE CONTRACTOR SHALL INSTALL THE ANTENNA AND MOUNT AS REQUIRED BY THE OWNER.

2. ALL A36 THREADED ROD AND U-BOLTS SHALL BE TIGHTENED TO AISC SNUG TIGHT REQUIREMENTS. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT, THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. A36 NUTS AND BOLTS TIGHTENING DO NOT REQUIRE SPECIAL INSPECTION.

3. ANY GALVANIZED SURFACES THAT ARE DAMAGED BY ABRASIONS, CUTS, DRILLING, OR FIELD WELDING DURING SHIPPING OR ERECTION SHALL BE TOUCHED UP WITH TWO COATS OF A COLD GALVANIZING COMPOUND MEETING THE REQUIREMENTS OF ASTM A780.

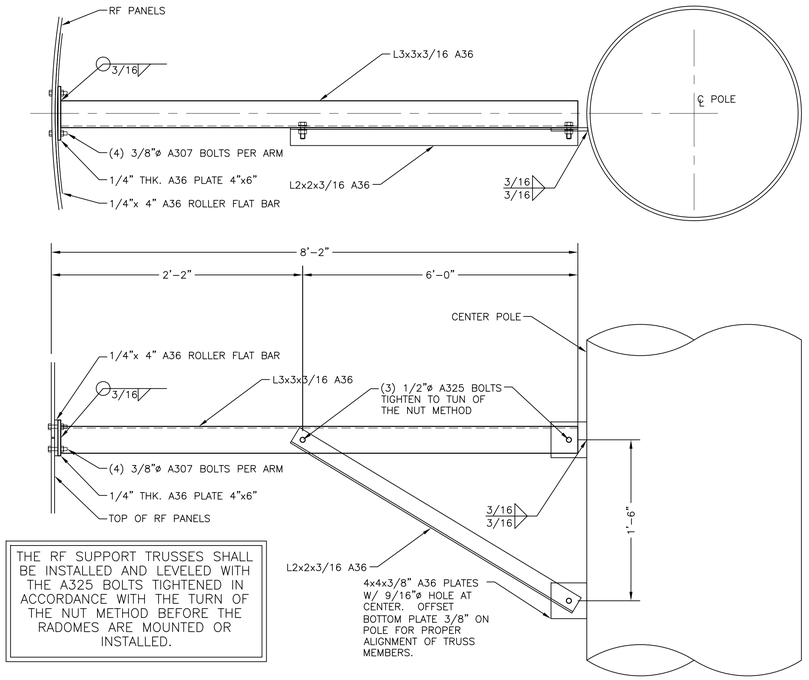
4. ANTENNA MOUNT SHALL NOT BE USED AS A CLIMBING DEVICE. WORKERS SHALL ALWAYS TIE OFF TO A SPECIFIED CLIMBING POINT. THE ANTENNA MOUNT DESIGN HAS NOT BEEN CHECKED FOR THE MAINTENANCE LOADING CONDITIONS AND LOAD COMBINATIONS 2& 3 FROM ANSI/TIA-222-H SECTION 16.4.1. DUE TO THE CONCEANMENT REQUIREMENTS ON THIS SITE THE ANTENNA MOUNT SHALL NOT BE USED AS A CLIMBING DEVICE.

Additional Notes:



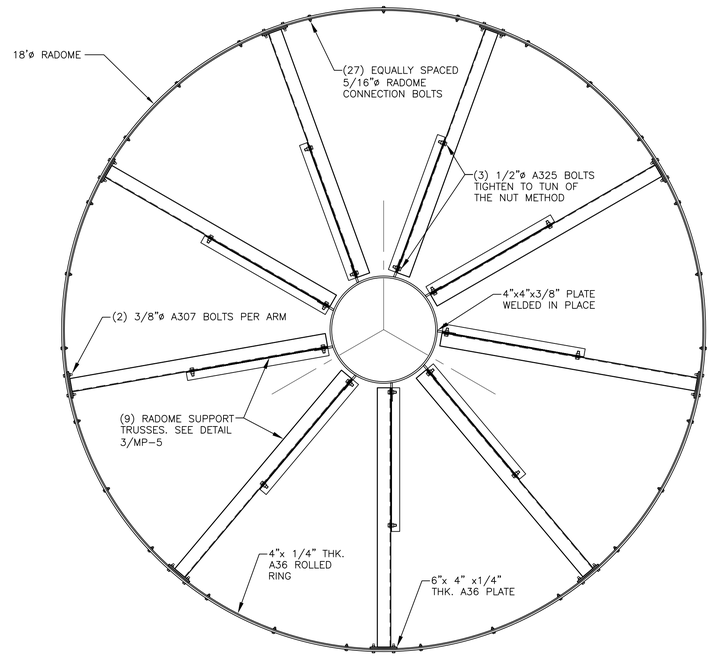
CLAMP PLATE DETAIL 2 MP-5

RADOME MOUNT DETAILS



THE RF SUPPORT TRUSSES SHALL BE INSTALLED AND LEVELED WITH THE A325 BOLTS TIGHTENED IN ACCORDANCE WITH THE TURN OF THE NUT METHOD BEFORE THE RADOMES ARE MOUNTED OR INSTALLED.

RF PANEL SUPPORT TRUSS 3 MP-5
SCALE: NTS



PLAN VIEW 4 MP-5
RF PANEL SUPPORT

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Revision:	Description:	Date:
REV. # 1: 10/29/2024	NO CHANGES THIS SHEET	
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By:

Site Name: HIGHLAND RD.
CCL04383
Site Location: SAN RAMON, CA
5707 HIGHLAND RD.

Designed By: SWL
Drawn By: SWL
Date: 8/16/2024
Scale: NTS/_AS_NOTED

Project Description: 170-FT FAUX WATER TANK [SITE #2]
Project Number: 1324201-014
CHAMELEON ENGINEERING 24-578
Owner: AT&T WIRELESS

REGISTERED PROFESSIONAL ENGINEER
SIMON W. LELAND
68807
Exp. 9/30/25
CIVIL
STATE OF CALIFORNIA
10/30/2024

Sheet No.
MP-5

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