



BAYVIEW STATION

ADDRESS:
LAND ONLY
LOS GATOS, CA 95030

PROJECT DIRECTORY

<u>APPLICANT:</u>		<u>ARCHITECT/ENGINEER:</u>	
COMPANY :	SENSUS / XYLEM	COMPANY :	DRAFTLINK
ADDRESS :	18 CAPRINGTON ROAD HENDERSON, NV 89052	ADDRESS :	27068 LA PAZ ROAD #561 ALISO VIEJO, CA 92656
CONTACT :	RANDY ARNTSON, SENIOR PM	CONTACT :	JOYCE YU
PHONE :	805-886-4788	PHONE :	949-232-5045
		EMAIL :	JOYCE@DRAFTLINK.COM
<u>PROPERTY CONTACT:</u>		<u>CONSTRUCTION MANAGER:</u>	
COMPANY :	SAN JOSE WATER COMPANY	COMPANY :	DIVERSIFIED
ADDRESS :	1265 SOUTH BASCOM AVENUE SAN JOSE, CA 95128	ADDRESS :	1260 PIONEER STREET BREA, CA 92821
CONTACT :	-	CONTACT :	SEAN WALSH
PHONE :	-	PHONE :	714-888-2284
		EMAIL :	SEAN.WALSH@DIVERSIFIED.NET

SITE INFORMATION

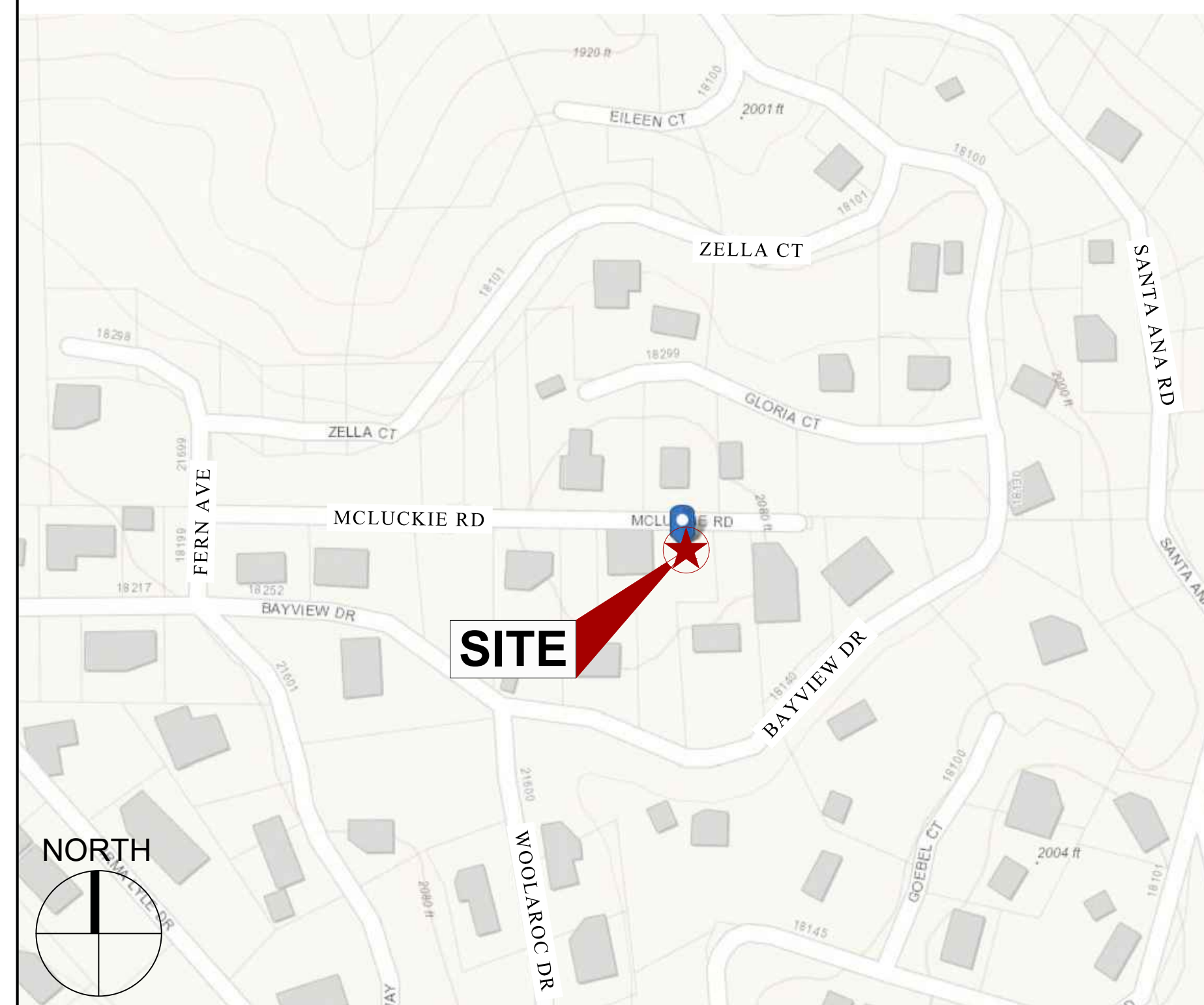
LATITUDE :	37.152545	OCCUPANCY :	U
LONGITUDE :	-121.991710	CONST. TYPE :	V-B
JURISDICTION :	COUNTY OF SANTA CLARA	NO. OF STORY :	-
ZONING DIST :	-	SPRINKLER :	NO
LAND USE :	PUBLIC UTILITY	POWER CO. :	UTILIZE ON-SITE POWER
PARCEL NO. :	544-45-004	TELCO CO. :	N/A

DIRECTIONS

FROM SAN JOSE INTERNATIONAL AIRPORT

- MERGE ONTO I-880 S
- CONTINUE ONTO CA-17 S
- TAKE SUMMIT RD EXIT
- RIGHT ONTO CA-35
- RIGHT ONTO WOOLAROC DR
- CONTINUE STRAIGHT ONTO VIRDELLE DR
- RIGHT ONTO BAYVIEW DR
- LEFT ONTO FERN AVE
- RIGHT ONTO MCLUCKIE
- ARRIVE AT SITE

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. 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
2. 2022 CALIFORNIA BUILDING CODE (CBC)
3. 2022 CALIFORNIA ELECTRICAL CODE (CEC)
4. 2022 CALIFORNIA MECHANICAL CODE (CMC)
5. 2022 CALIFORNIA ENERGY CODE
6. 2022 CALIFORNIA FIRE CODE (CFC)
7. 2022 CALIFORNIA GREEN BUILDING CODE
8. 2022 CALIFORNIA REFERENCES STANDARDS CODE
9. APPLICABLE LOCAL CODES AND ORDINANCES
10. ASCE / SEI - 7-16

SCOPE OF WORK

INSTALLATION OF:

1. (1) SELF SUPPORTING TOWER (3 SIDED SLIMLINE TOWER)
2. (1) DB589-Y ANTENNA
3. (1) M400 BASE STATION CABINET
4. MOUNTING HARDWARES AND CABLES

* POWER SUPPLY IS EXISTING AND IS PERFORMED BY OTHERS (NOT PART OF THIS PROJECT)

SHEET INDEX

REV	DATE	DESCRIPTION
T-1		TITLE SHEET
T-2		NOTES
T-3		NOTES
A-1		SITE PLAN
A-2		PARTIAL ENLARGED SITE PLAN
A-3		ELEVATION
D-1		DETAILS
D-2		DETAILS
E-1		ELECTRICAL NOTES
E-2		ELECTRICAL GROUNDING AND DETAILS
TOWER DRAWINGS BY PAUL J FORD / MAGNUM TOWERS		
T-1		TITLE SHEET
N-1		NOTES
S-1		TOWER ELEVATION
S-2		DRILLED PIER FOUNDATION
S-3		WELDED TOWER SECTION DETAILS
S-4		SPECIAL INSPECTION
TOTAL SHEET COUNT: 16		



UNDERGROUND SERVICE ALERT
(800) 642-2444
WWW.CALIFORNIA811.ORG
CALL 2 TO 14 WORKING DAYS UTILITY NOTIFICATION
PRIOR TO CONSTRUCTION



IMPORTANT

THIS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A SERVICE TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THIS 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 NEW

11"X17" WILL BE HALF SCALE UNLESS OTHERWISE NOTED

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND FIELD CONDITION, AND SHALL IMMEDIATELY NOTIFY THE A/E OF RECORD IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK

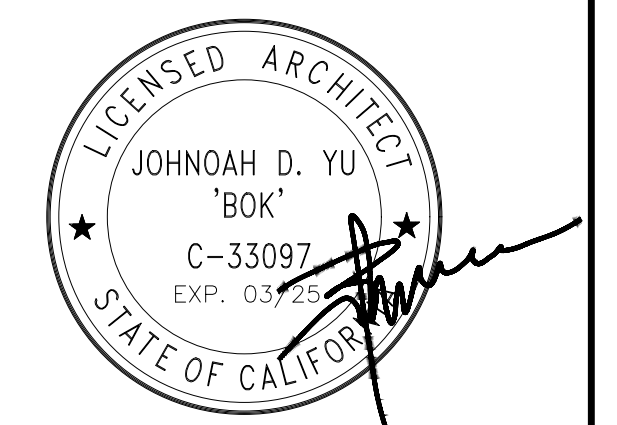
APPROVAL STAMP



XYLEM INC.
301 WATER STREET, SUITE 200
WASHINGTON, DC 20003



DIVERSIFIED COMMUNICATIONS
SERVICES, INC.



IT IS A VIOLATION OF LAW FOR ANY
PERSON UNLESS UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL
ARCHITECT TO ALTER THIS DOCUMENT

DRAWN BY : DY
CHECKED BY : JY
APPROVED BY : JY

CONSTRUCTION DRAWINGS

SUBMITTALS		
REV	DATE	DESCRIPTION
A	02-20-24	FOR REVIEW
O	04-29-24	FOR SUBMITTAL
1	06-25-24	INCL TOWER DRAWINGS

A&E PROJECT NUMBER

-

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BAYVIEW STATION
LAND ONLY
LOS GATOS, CA 95030

SHEET TITLE
TITLE SHEET

SHEET NUMBER

T-1

	PROPERTY LINE / LEASE AREA
	FENCE LINE
	POWER SERVICE
	TELEPHONE SERVICE
	POWER/TEL SERVICES
	PROPOSED CONTOUR
	EXISTING CONTOUR
	COAX CABLE
	FIBER AND DC CABLE
	CADWELDED TYPE CONNECTION
	COMPRESSION TYPE CONNECTION
	GROUNDING WIRE
	REPRESENTS DETAIL NUMBER REF. DRAWING NUMBER
	GROUND ROD WITH ACCESS
	CHEMICAL GROUND ROD
	GROUND ROD
	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER.
	CONNECTION TO GROUND, MINIMUM TWO (2) OF THE FOLLOWING: EARTH, BUILDING, COLD WATER PIPING. VERIFY CONTINUITY FOR ALL GROUND SOURCES WITH A TOTAL RESISTANCE OF < 5 OHMS.
	GROUT OR PLASTER
	(E) BRICK
	(E) MASONRY
	CONCRETE
	EARTH
	GRAVEL
	PLYWOOD
	SAND
	WOOD CONT.
	WOOD BLOCKING
	STEEL
	TOP OF ANTENNA
	PROPERTY/LEASE LINE
	MATCH LINE
	WORK POINT
	GROUND CONDUCTOR
	COAXIAL CABLE
	OVERHEAD SERVICE CONDUCTORS
	CHAIN LINK FENCING
	OVERHEAD TELEPHONE/OVERHEAD POWER
	OVERHEAD TELEPHONE LINE
	OVERHEAD POWER LINE
	POWER RUN
	FIBER/POWER RUN

LEGENDS, SYMBOLS AND ABBREVIATIONS

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- DRAWINGS SHALL NOT BE SCALED. THESE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE-DRAWINGS. CONTRACTOR SHALL CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS, OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
- CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, THE PROPERTY OWNER AND THE ARCHITECT IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
- EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND THE ARCHITECT SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE CONSTRUCTION MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.
- THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE ON THE SITE AND SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- WORKMANSHIP THROUGHOUT BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE
- ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORTS FOR ALL ITEMS REQUIRING THE SAME.
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.
- THE CONTRACTOR SHALL PROTECT THE PROPERTY OWNERS, AND LESSEE PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING FINISHES, CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, OR EQUIPMENT, ETC. SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE LESSEE, AND THE PROPERTY OWNER, OR THE OWNER'S REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY, ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK BY THE OWNER UNDER THIS CONTRACT.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, OR CONTACT AN OUTSIDE AGENCY TO LOCATE ALL EXISTING UTILITIES. WHETHER SHOWN HERE IN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE IN CONJUNCTION WITH THE EXECUTION OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED
- THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER, CARRIER AND THE CITY OR GOVERNING AGENCY.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION DOCUMENTS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS SHALL BE DONE AFTER THE SITE HAS BEEN AWARDED FINAL INSPECTION BY THE RESPONSIBLE BUILDING AGENCY. ONE SET OF REDLINED DRAWINGS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.
- THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND NOT BE USED BY WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.
- THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS, EXCEPT FOR THAT SPECIFIED AS REMAINING THE PROPERTY OF THE BUILDING OR PROPERTY OWNER AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEAN-UP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY AND VACUUM CLEAN CONDITION, FREE FROM PAINT, SPOTS, DUST OR SMUDGES OF ANY NATURE TO COMPLETION OF WORK.
- THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.
- ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED.
- PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA CONSTRUCTION.
- ELECTRICAL AND POWER SYSTEM SHALL BE GROUNDED PER THE CALIFORNIA ELECTRICAL CODE.
- UPON COMPLETION OF CONSTRUCTION, THE CONSTRUCTION MANAGER SHALL CONDUCT A WALK-THRU WITH PROPERTY OWNER OR REPRESENTATIVE OF PROPERTY OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEM EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY THE CARRIER.
- FIELD VERIFY EXISTING CONDITION PRIOR TO FABRICATION AND INSTALLATION

GENERAL NOTES

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A	AMPERE	(E)	EXISTING	P	POLE
APPROX	APPROXIMATE	EGB	EQUIPMENT GROUND BAR	PVC	POLYVINYL CONDUIT
ABV	ABOVE	EA	EACH	PL	PROPERTY LINE
AIC	AMPERES INTERRUPTING CAPACITY	ELEC/ELECT	ELECTRICAL	RGS	RIGID GALVANIZED STEEL
ASCC	AVAILABLE SHOR CIRCUIT CURRENT	EL	ELEVATION	REV	REVISION
ASPH	ASPHALT	EMT	ELECTRICAL METALLIC TUBING	STRUCT	STRUCTURAL
AMSL	ABOVE MEAN SEA LEVEL	EQ	EQUAL / EQUIVALENT	SF	SQUARE FOOT
AGB	ANTENNA GROUND BAR	EQUIP	EQUIPMENT	SH	SHEET
AGL	ABOVE GROUND LEVEL	FRP	FIBER REINFORCED POLYMER	SIM	SIMILAR
AFL	ABOVE FLOOR LINE	FFL	FINISH FLOOR LINE	SS	STAINLESS STEEL
AWG	AMERICAN WIRE GAUGE	GA	GAUGE	TYP	TYPICAL
BCW	BARE COPPER WIRE	GALV	GALVANIZED	T.P.	TOP OF
BTS	BASE TRANSMISSION STATION	GENSET	GENERATOR SET	UNO	UNLESS NOTED OTHERWISE
B.O.	BOTTOM OF	GRND	GROUND	VIF	VERIFY IN FIELD
C	CONDUIT	IMC	INTERMEDIATE METALLIC CONDUIT	WWF	WELDED WIRE FABRIC
CAB	CABINET	ICC	INTERNATIONAL CODE COUNCIL		
CBC	CALIFORNIA BUILDING CODE	MAX	MAXIMUM		
CEC	CALIFORNIA ELECTRICAL CODE	MGB	MASTER GROUND BAR		
CMC	CALIFORNIA MECHANICAL CODE	MOD	MODIFICATION		
CAC	CALIFORNIA ADMINISTRATIVE CODE	MIN	MINIMUM		
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL		
CONC	CONCRETE	MFR	MANUFACTURER		
CONT	CONTINUOUS	MGB	MASTER GROUND BAR		
CALC(S)	CALCULATION(S)	(N)	NEW		
CL	TOP OF ANTENNA	NTS	NOT TO SCALE		
DIA	DIAMETER	OC	ON CENTER		
DWG	DRAWING				

ABBREVIATIONS

3

APPROVAL STAMP

xylem
Let's Solve Water

XYLEM INC.
301 WATER STREET, SUITE 200
WASHINGTON, DC 20003

DIVERSIFIED COMMUNICATIONS SERVICES, INC.

LICENSED ARCHITECT
JOHNOAH D. YU
"BOK"
C-33097
EXP. 03/25

DRAFTLINK

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT TO ALTER THIS DOCUMENT

DRAWN BY : DY
CHECKED BY : JY
APPROVED BY : JY

CONSTRUCTION DRAWINGS

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SHEET TITLE
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SHEET NUMBER
T-2

<ol style="list-style-type: none"> THE ARCHITECT/ENGINEER AND REPRESENTATIVES OF THE LESSEE AND OWNER, MUST BE NOTIFIED AT LEAST TWO FULL DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. DO NOT EXCAVATE OR DISTURB SOILS BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS SPECIFICALLY INSTRUCTED, IN WRITING, BY THE ARCHITECT / ENGINEER DO NOT SCALE BUILDING DIMENSIONS FROM DRAWINGS. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-CONSTRUCTED DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER, AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO 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. CONTRACTOR SHALL CALL LOCAL DIGGER HOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION. 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. THE BUILDING DEPARTMENT ISSUING THE BUILDING PERMIT SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK OR AS STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO EXISTING GRADES AT THE GRADING LIMITS. 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. STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 100% OF MAXIMUM STANDARD PROCTOR DRY DENSITY. NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY. ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. EACH LIFT'S THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE. ANY FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE. CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO PAPERS, TRASH, WEEDS, BRUSH OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE TRIMMED AS REQUIRED AND PROTECTED IN PLACE BY THE GENERAL CONTRACTOR. DRIVEWAY CONSTRUCTION, GRADING AND DRAINAGE WORK SHALL CONFORM TO CALIFORNIA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITIONS, AND ALL APPLICABLE PROVISIONS OF LOCAL COUNTY ORDINANCES. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED SIGNS FOR THIS PROJECT. THE CONTRACTOR SHALL OBTAIN WRITTEN INSTRUCTIONS FROM THE IMPLEMENTATION ENGINEER AS TO THE EXACT MATERIAL, SIZE, WORDING, AND LOCATION FOR ALL SIGNS. SIGNS THAT MAY BE REQUIRED INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: <ol style="list-style-type: none"> 7x24 ACCESS SIGN. SITE ENTRY SIGN. ANTENNA STRUCTURE COMPLIANCE SIGN. NEPA RF EXPOSURE SIGN(S). ANY ADDITIONAL SIGNS AS REQUIRED BY OWNER AND/OR GOVERNMENTAL AGENCIES. 	9
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<ol style="list-style-type: none"> CONTRACTOR SHALL COMPLY WITH CFC CHAPTER 33 FOR MINIMUM SAFETY SAFEGUARDS FOR CONSTRUCTION, ALTERNATION AND DEMOLITION OPERATIONS TO PROVIDE REASONABLE SAFETY TO LIFE AND PROPERTY FROM FIRE DURING CONSTRUCTION OPERATIONS. TEMPORARY HEATING DEVICES SHALL BE LISTED AND LABELED IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE. INSTALLATION, MAINTENANCE AND USE OF TEMPORARY HEATING DEVICES SHALL BE IN ACCORDANCE WITH THE TERMS OF THE LISTING. OIL-FIRED HEATERS SHALL COMPLY WITH SECTION 603. FUEL SUPPLIES FOR LIQUEFIED-PETROLEUM GAS-FIRED HEATERS SHALL COMPLY WITH CHAPTER 61 AND THE CALIFORNIA MECHANICAL CODE. REFUELING OPERATIONS FOR LIQUID-FUELED EQUIPMENT OR APPLIANCES SHALL BE CONDUCTED IN ACCORDANCE WITH SECTION 5705. THE EQUIPMENT OR APPLIANCE SHALL BE ALLOWED TO COOL PRIOR TO REFUELING. CLEARANCE TO COMBUSTIBLES FROM TEMPORARY HEATING DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE LABELED EQUIPMENT. WHEN IN OPERATION, TEMPORARY HEATING DEVICES SHALL BE FIXED IN PLACE AND PROTECTED FROM DAMAGE, DISLODGE MENT OR OVERTURNING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE USE OF TEMPORARY HEATING DEVICES SHALL BE SUPERVISED AND MAINTAINED ONLY BY COMPETENT PERSONNEL. SMOKING SHALL BE PROHIBITED EXCEPT IN APPROVED AREAS. SIGNS SHALL BE POSTED IN ACCORDANCE WITH SECTION 310. IN APPROVED AREAS WHERE SMOKING IS PERMITTED, APPROVED ASHTRAY SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 310. COMBUSTIBLE DEBRIS, RUBBISH AND WASTE MATERIAL SHALL COMPLY WITH THE REQUIREMENTS OF SECTIONS 3304.2.1 THROUGH 3304.2.4. COMBUSTIBLE DEBRIS, RUBBISH AND WASTE MATERIAL SHALL NOT BE ACCUMULATED WITHIN BUILDINGS. COMBUSTIBLE DEBRIS, RUBBISH AND WASTE MATERIAL SHALL BE REMOVED FROM BUILDINGS AT THE END OF EACH SHIFT OF WORK. WHERE RUBBISH CONTAINERS WITH A CAPACITY EXCEEDING 5.33 CUBIC FEET (40 GALLONS) (0.15 M3) ARE USED FOR TEMPORARY STORAGE OF COMBUSTIBLE DEBRIS, RUBBISH AND WASTE MATERIAL, THEY SHALL HAVE TIGHT-FITTING OR SELF-CLOSING LIDS. SUCH RUBBISH CONTAINERS SHALL BE CONSTRUCTED ENTIRELY OF MATERIALS THAT COMPLY WITH EITHER OF THE FOLLOWING: <ol style="list-style-type: none"> NONCOMBUSTIBLE MATERIALS MATERIALS THAT MEET A PEAK RATE OF HEAT RELEASE NOT EXCEEDING 300 KW/M2 WHEN TESTED IN ACCORDANCE WITH ASTM E1354 AT AN INCIDENT HEAT FLUX OF 50 KW/M2 IN THE HORIZONTAL ORIENTATION. COMBUSTIBLE DEBRIS, RUBBISH AND WASTE MATERIAL SHALL NOT BE ACCUMULATED WITHIN BUILDINGS. MATERIALS SUSCEPTIBLE SPONTANEOUS IGNITION, SUCH AS OILY RAGS, SHALL BE STORED IN A LISTED DISPOSAL CONTAINER. COMBUSTIBLE DEBRIS, RUBBISH AND WASTE MATERIAL SHALL NOT BE DISPOSED OF BY BURNING ON THE SITE UNLESS APPROVED. OPERATIONS INVOLVING THE USE OF CUTTING AND WELDING SHALL BE DONE IN ACCORDANCE WITH CHAPTER 35. TEMPORARY WIRING FOR ELECTRICAL POWER AND LIGHTING INSTALLATIONS USED IN CONNECTION WITH THE CONSTRUCTION, ALTERATION OR DEMOLITION OF BUILDINGS, STRUCTURES, EQUIPMENT OR SIMILAR ACTIVITIES SHALL COMPLY WITH THE CALIFORNIA ELECTRICAL CODE. APPROVED VEHICLE ACCESS FOR FIRE FIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED TO WITHIN 100 FEET (30,480 MM) OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE MAINTAINED UNTIL PERMANENT FIRE APPARATUS ACCESS ROADS ARE AVAILABLE. INTERNAL-COMBUSTION-POWERED CONSTRUCTION EQUIPMENT SHALL BE USED IN ACCORDANCE WITH ALL OF THE FOLLOWING CONDITIONS: <ol style="list-style-type: none"> EQUIPMENT SHALL BE LOCATED SO THAT EXHAUSTS DO NOT DISCHARGE AGAINST COMBUSTIBLE MATERIAL. EXHAUSTS SHALL BE PIPED TO THE OUTSIDE OF THE BUILDING. EQUIPMENT SHALL NOT BE REFUELED WHILE IN OPERATION. FUEL FOR EQUIPMENT SHALL BE STORED IN AN APPROVED AREA OUTSIDE OF THE BUILDING. 	6
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<ol style="list-style-type: none"> ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP. BOLTED CONNECTIONS SHALL BE ASTM A307 BEARING TYPE (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST REVISED EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION, WHICH INCLUDES THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE CODE OF STANDARD PRACTICE AND THE AWS STRUCTURAL WELDING CODE. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED BY THE A/E PRIOR TO FABRICATION MATERIAL SPECIFICATIONS: <table border="0" style="width: 100%;"> <tr> <td style="padding-right: 20px;">W SHAPES:</td> <td>ASTM A992 GRADE 50</td> </tr> <tr> <td>C, M, ANGLE, BARS, AND PLATES:</td> <td>ASTM A36</td> </tr> <tr> <td>TUBE STEEL:</td> <td>ASTM A500, GRADE B</td> </tr> <tr> <td>PIPE COLUMNS:</td> <td>ASTM A53, GRADE B</td> </tr> </table> SPECIAL INSPECTION OF THE FABRICATION, WELDING, AND IMPLEMENTATION PROCEDURES SHALL BE PERFORMED IN ACCORDANCE WITH AISC AND CBC WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS. WELDERS SHALL HAVE LIGHT GAUGE STEEL CERTIFICATION WHEN WELDING LIGHT GAUGE STEEL. ALL EXPOSED WELDS SHALL BE FILLED AND GROUND SMOOTH WHERE METAL COULD COME IN CONTACT WITH THE PUBLIC. ALL SHOP AND FIELD BOLTED CONNECTIONS SHALL BE IN ACCORDANCE WITH ASTM A-307 USING UNFINISHED AMERICAN STANDARD REGULAR BOLTS, UNLESS OTHERWISE NOTED. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THRU STRUCTURAL STEEL MEMBERS. BOLT HOLES SHALL CONFORM TO AISC SPECIFICATION, AND SHALL BE STANDARD HOLES UNLESS OTHERWISE NOTED. NO CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT PRIOR CONSENT OF THE A/E. ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED. 	W SHAPES:	ASTM A992 GRADE 50	C, M, ANGLE, BARS, AND PLATES:	ASTM A36	TUBE STEEL:	ASTM A500, GRADE B	PIPE COLUMNS:	ASTM A53, GRADE B	2
W SHAPES:	ASTM A992 GRADE 50								
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TUBE STEEL:	ASTM A500, GRADE B								
PIPE COLUMNS:	ASTM A53, GRADE B								
<p style="text-align: center;">STRUCTURAL STEEL NOTES</p> <ol style="list-style-type: none"> ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO CHAPTER 19 OF THE CBC AND TO ALL REQUIREMENTS OF THE CURRENT EDITION OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS SPECIFIED HEREIN. MIX DESIGN REQUIREMENTS: <ol style="list-style-type: none"> CEMENT SHALL BE TYPE II. COMPRESSIVE STRENGTH = 3250 PSI CONCRETE SLUMP SHALL NOT EXCEED 5". WATER CEMENT RATIO SHALL NOT EXCEED 0.45. ALL REINFORCING STEEL SHALL BE SECURED IN POSITION AND INSPECTED BY THE BUILDING OFFICIAL PRIOR TO PLACING CONCRETE. SPECIAL INSPECTION IS NOT REQUIRED FOR CONCRETE FOUNDATIONS OR REBAR PLACEMENT. ALL CONCRETE HAS BEEN DESIGNED FOR 2500 PSI. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 UNLESS OTHERWISE NOTED. BARS SHALL BE CLEAN OF MUD, OIL, OR OTHER COATINGS LIKELY TO IMPAIR BONDING. ALL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO INSPECTIONS, PLACING CONCRETE, OR GROUTING MASONRY. REINFORCING STEEL SHALL BE SPLICED AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER. ALL VERTICAL WALL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN SPLICE LOCATIONS SHOWN IN THE DETAILS. 	3								

SITE DEVELOPMENT NOTES


FIRE SAFETY DURING CONSTRUCTION

CONCRETE AND REBAR NOTES

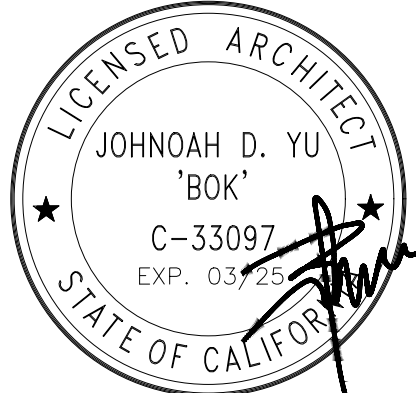
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APPROVED BY :	JY

CONSTRUCTION DRAWINGS

SUBMITTALS		
REV	DATE	DESCRIPTION
A	02-20-24	FOR REVIEW
O	04-29-24	FOR SUBMITTAL
1	06-25-24	INCL TOWER DRAWINGS

A&E PROJECT NUMBER

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PROJECT INFORMATION

BAYVIEW STATION

LAND ONLY
LOS GATOS, CA 95030

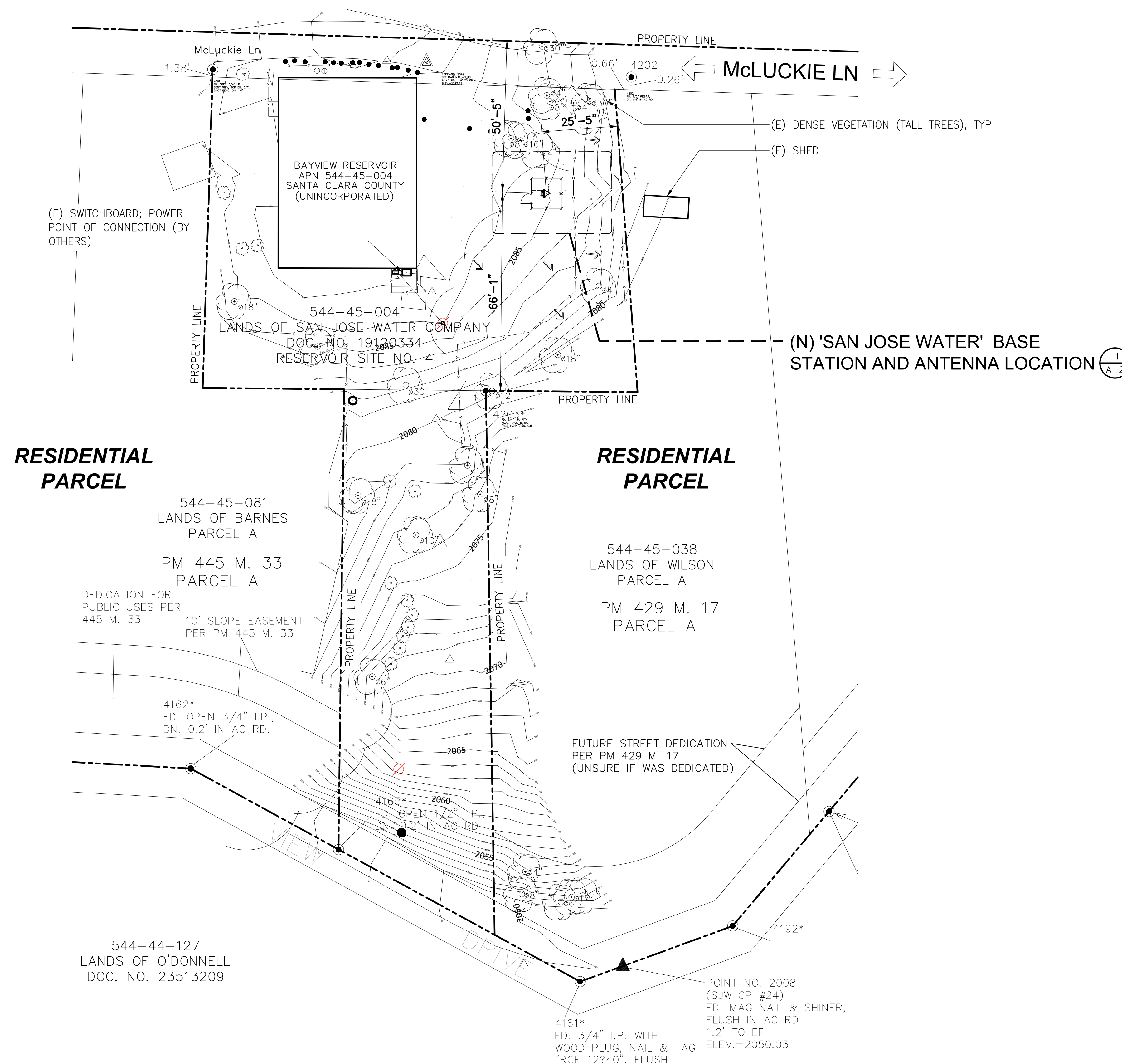
SHEET TITLE

NOTES

SHEET NUMBER

T-3

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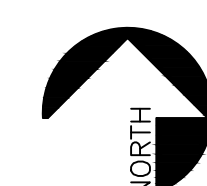


**RESIDENTIAL
PARCEL**

**RESIDENTIAL
PARCEL**

SITE PLAN

SCALE: 1"=20'



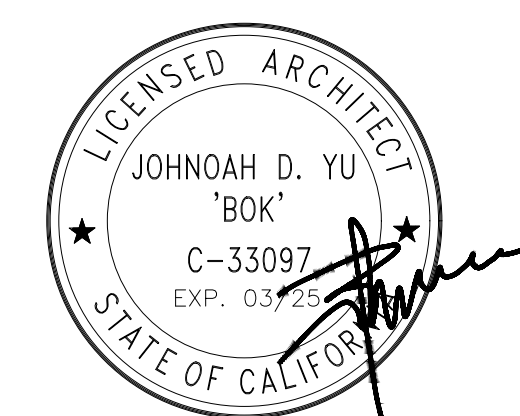
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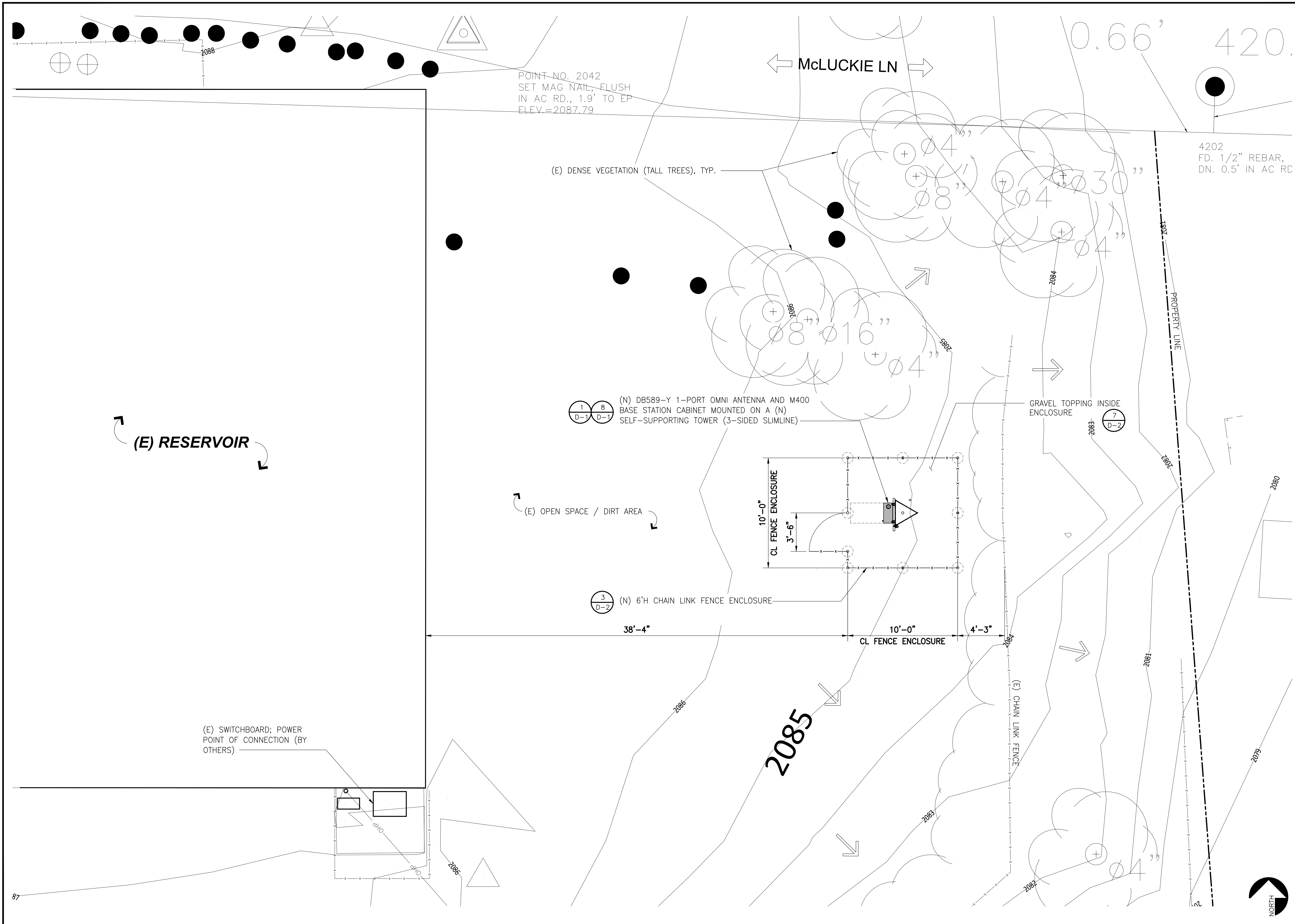
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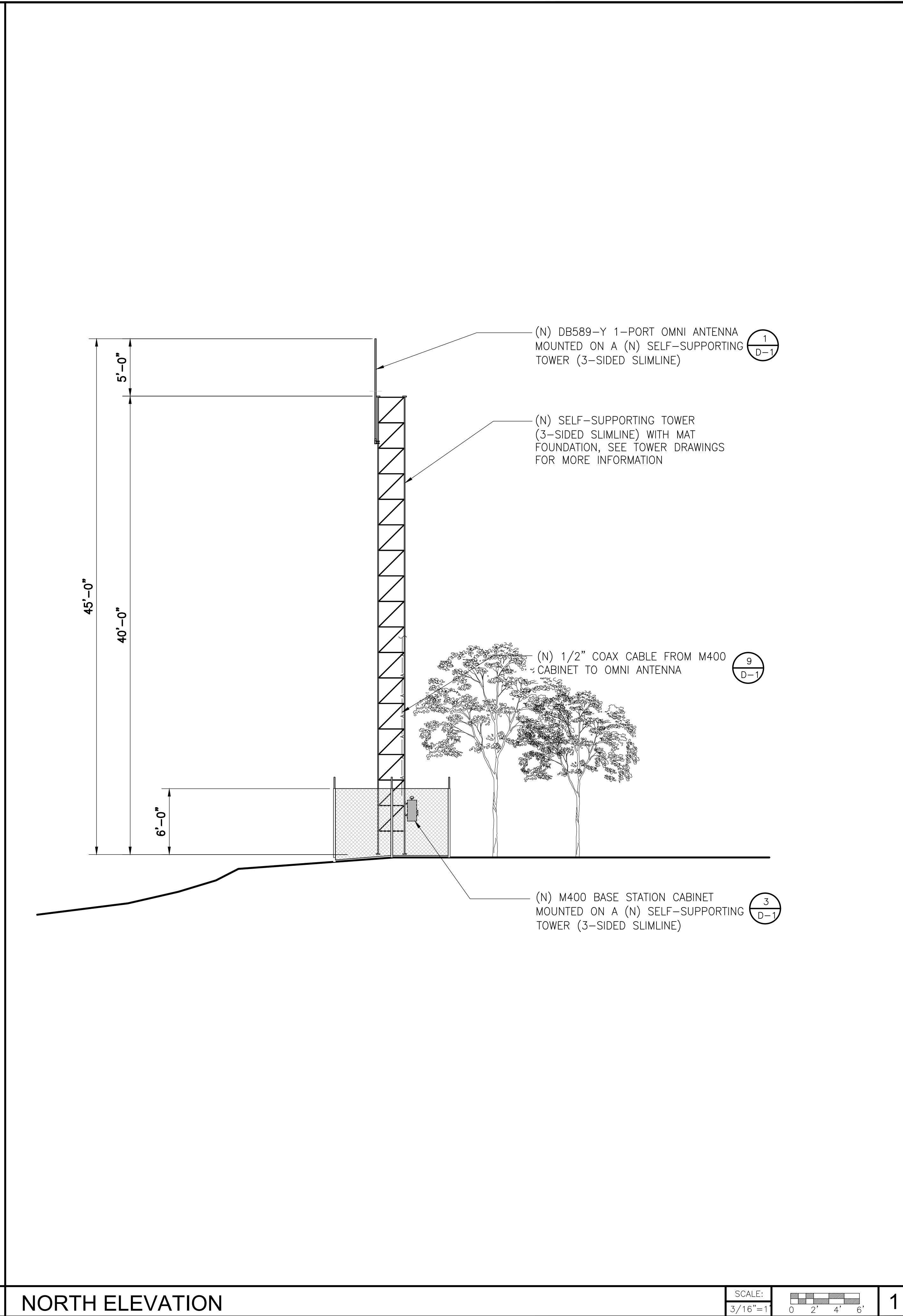
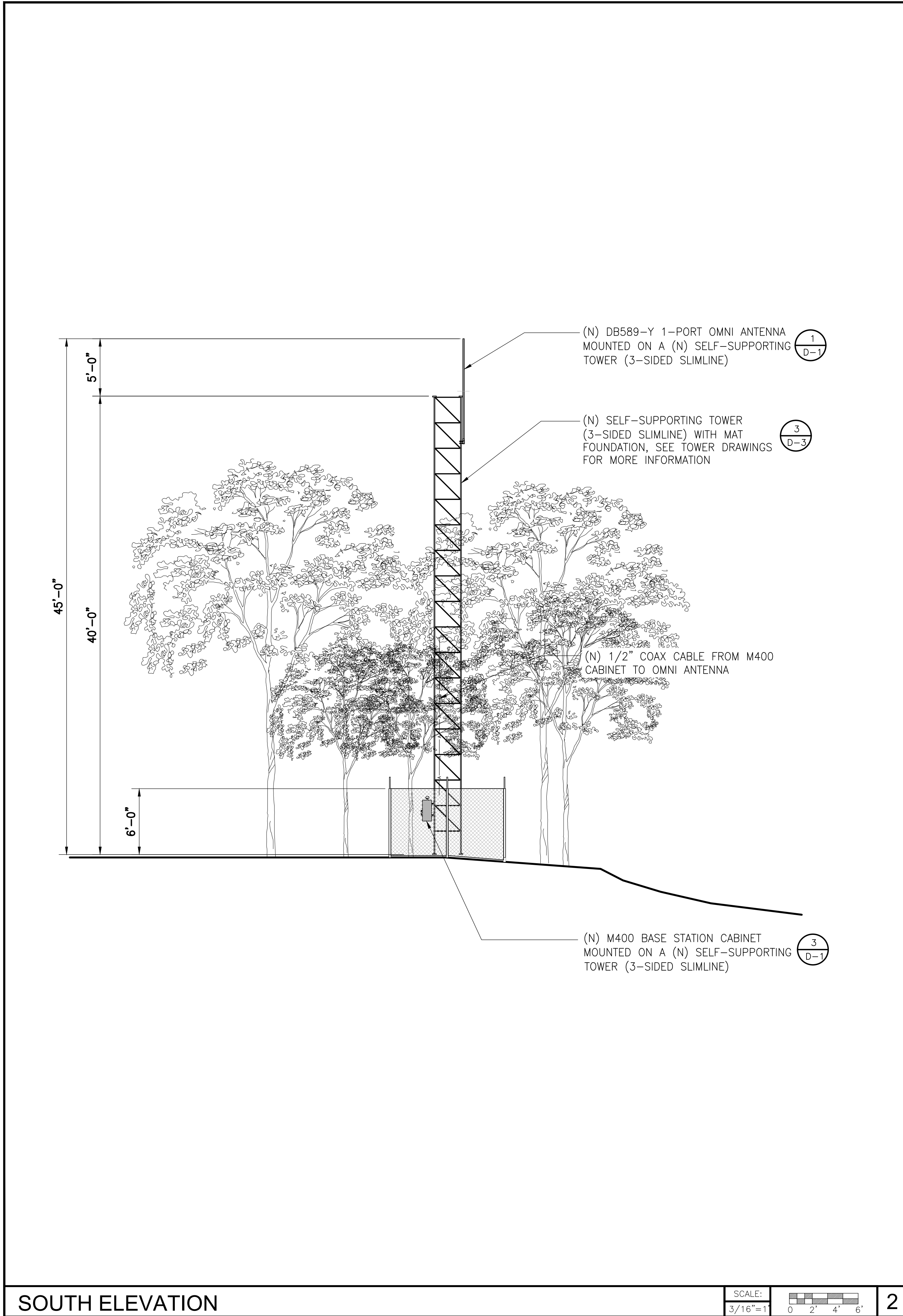
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PROJECT INFORMATION
BAYVIEW STATION
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LOS GATOS, CA 95030

SHEET TITLE
SITE PLAN

SHEET NUMBER
A-1





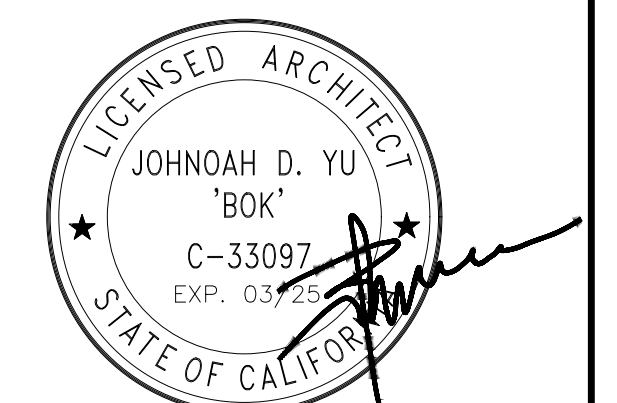
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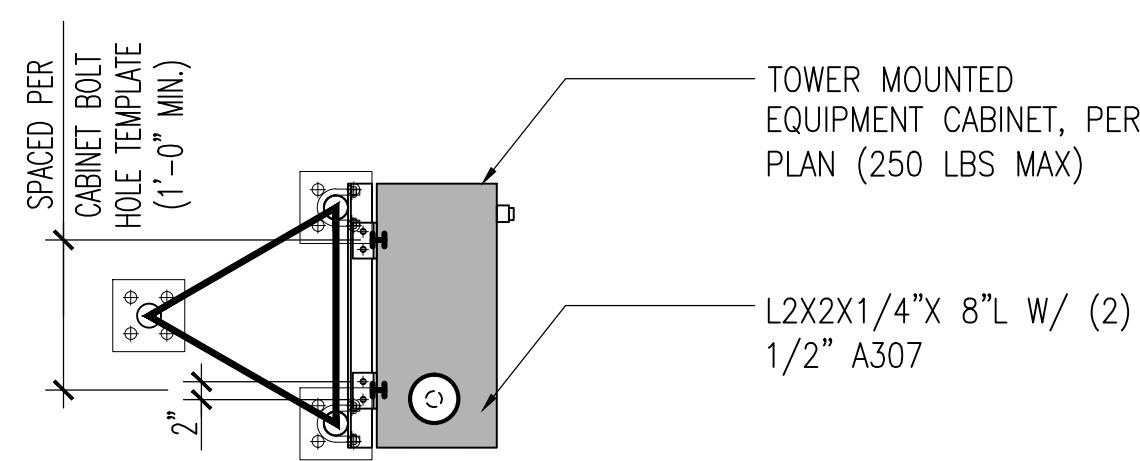
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SHEET TITLE
ELEVATIONS

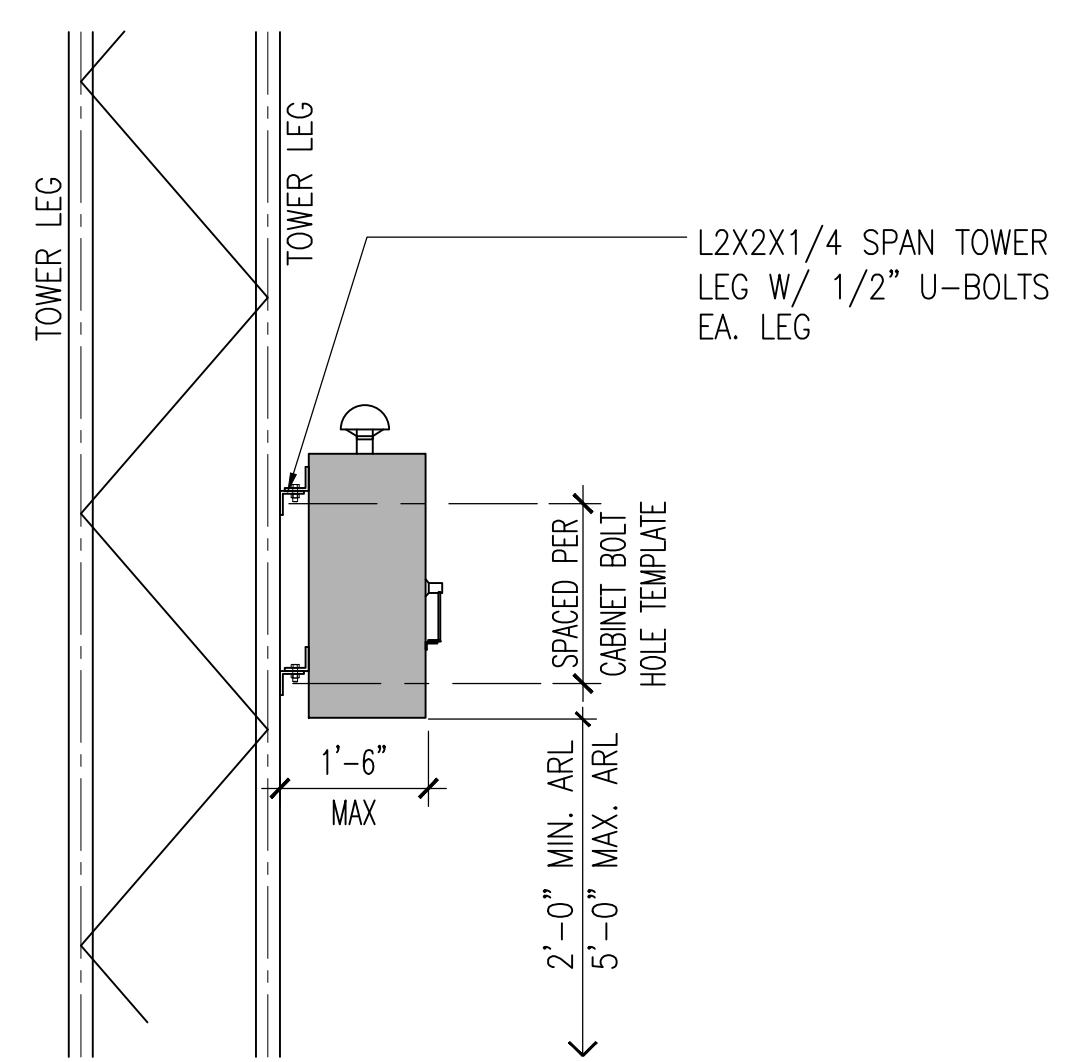
SHEET NUMBER
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SOUTH ELEVATION

NORTH ELEVATION



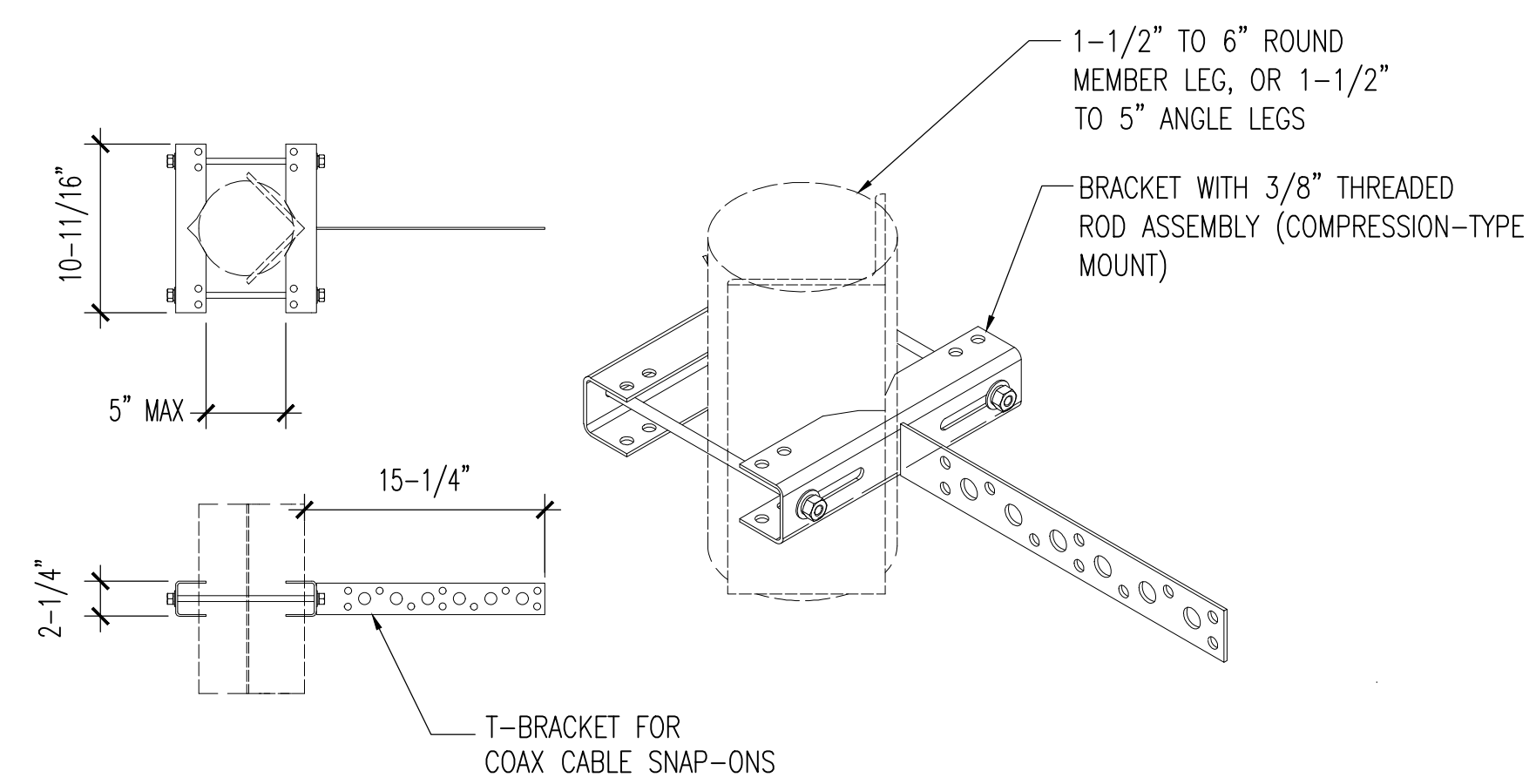
PLAN



ELEVATION

EQUIPMENT CABINET ON TOWER

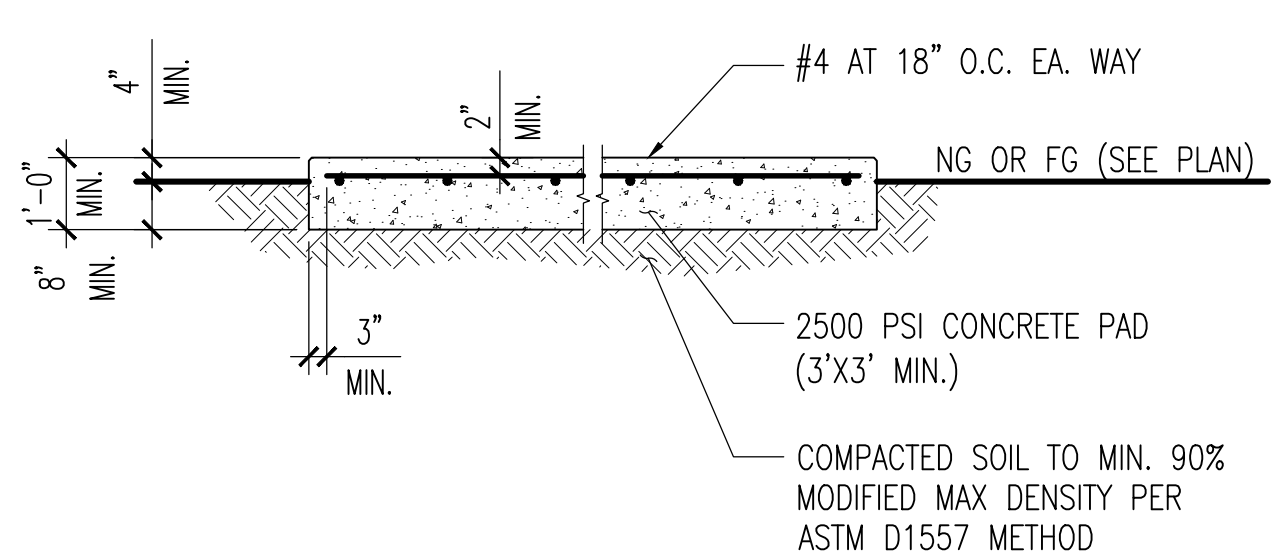
SCALE: NTS 8



SITEMPRO T600

COAX CABLE ATTACHMENT TO TOWER LEG

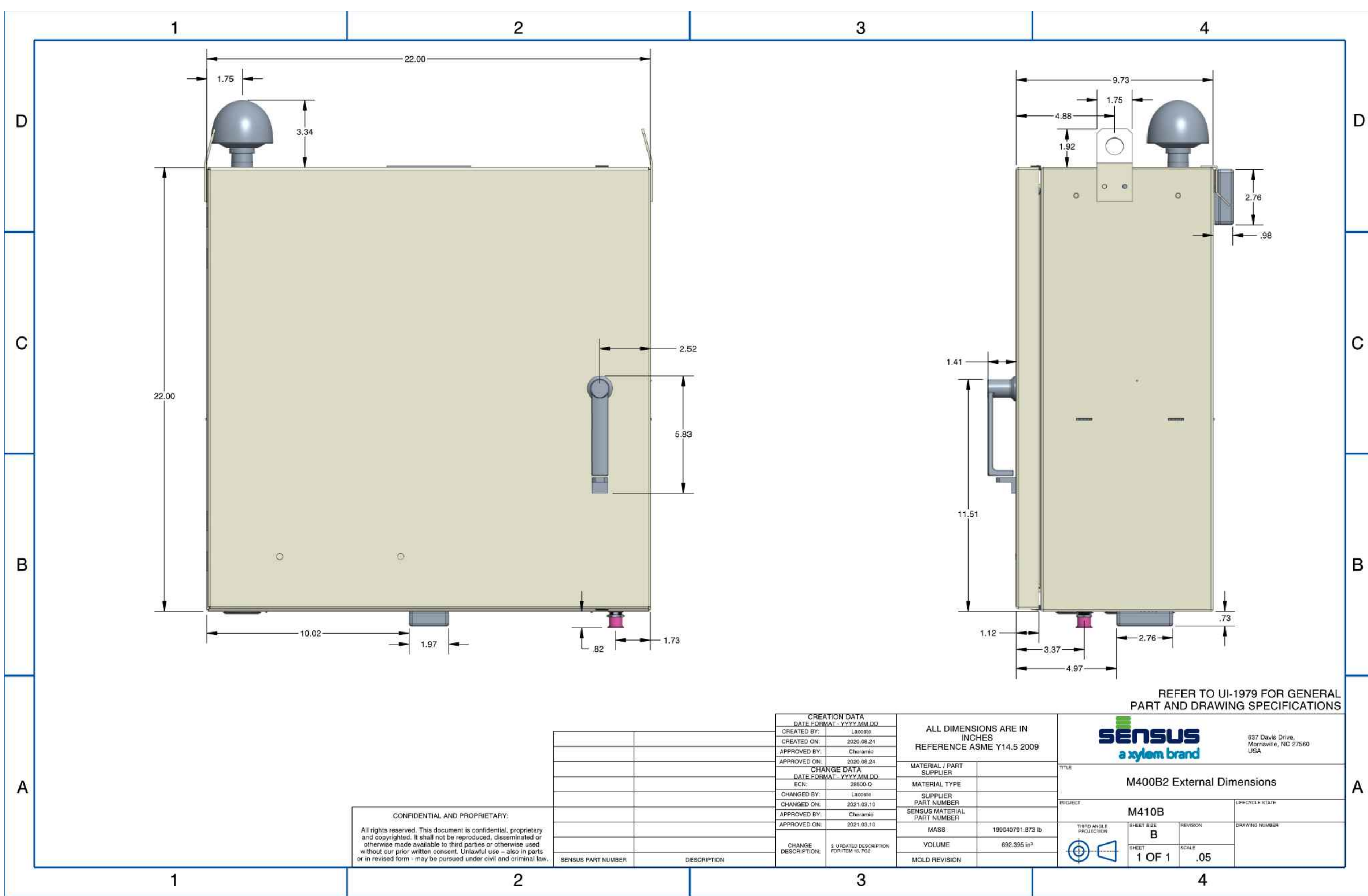
SCALE: NTS 9



NOTES:
1. 1" CHAMFER ALL EXPOSED EDGES OF CONCRETE

CONCRETE STOOP (IF NEEDED)

SCALE: NTS 4



EQUIPMENT CABINET M400

SCALE: NTS 3

General Specifications

Operating Frequency Band	890 – 960 MHz
Antenna Type	Omni
Band	Single band
Includes	V-bolts
Performance Note	Outdoor usage

Dimensions

Length	2794.0 mm 110.0 in
Outer Diameter	38.1 mm 1.5 in
Net Weight, without mounting kit	5.2 kg 11.5 lb

DB589-Y

1-port omni antenna, 890–960 MHz, 360° HPBW, fixed electrical tilt, fits on 38–51 mm (1-1/2 to 2 in) OD pipe

- Light weight, low profile omnidirectional antenna ideal for low to moderate gain applications
- Integral dual purpose mount allows top or side mounting

OMNI ANTENNA DB589-Y SPECS

SCALE: NTS 1

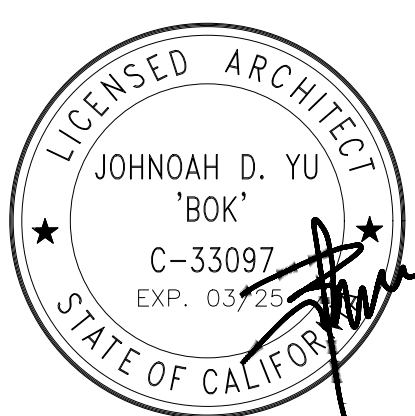
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A&E PROJECT NUMBER

PROJECT INFORMATION
BAYVIEW STATION
LAND ONLY
LOS GATOS, CA 95030

SHEET TITLE
DETAILS

SHEET NUMBER
D-1

REFER TO UI-1979 FOR GENERAL PART AND DRAWING SPECIFICATIONS

<p>CREATION DATA</p> <p>DATE EQUIP. MAT. - YYYY MM DD</p> <p>CREATED BY: Licoise</p> <p>APPROVED BY: Cherania</p> <p>DATE EQUIP. MAT. - YYYY MM DD</p> <p>CHANGED BY: Licoise</p> <p>CHANGED ON: 2021.03.10</p> <p>APPROVED BY: Cherania</p> <p>APPROVED ON: 2021.03.10</p>	<p>ALL DIMENSIONS ARE IN INCHES</p> <p>REFERENCE ASME Y14.5 2009</p> <p>MATERIAL / PART SUPPLIER</p> <p>MATERIAL TYPE</p> <p>SUPPLIER PART NUMBER</p> <p>SENSUS MATERIAL PART NUMBER</p> <p>MASS 199040791.873 lb</p> <p>VOLUME 692.395 in³</p> <p>MOLD REVISION</p>	<p>SENUS PART NUMBER</p> <p>DESCRIPTION</p> <p>CHANGE DESCRIPTION</p> <p>3. UPDATED DESCRIPTION FOR ITEM 14. P162</p>	<p>SENUS PART NUMBER</p> <p>DESCRIPTION</p>	<p>CONFIDENTIAL AND PROPRIETARY:</p> <p>All rights reserved. This document is confidential, proprietary and copyrighted. It shall not be reproduced, disseminated or otherwise made available to third parties or otherwise used without our prior written consent. Unlawful use - also in parts or in revised form - may be pursued under civil and criminal law.</p>	<p>SENUS PART NUMBER</p> <p>DESCRIPTION</p>	<p>SENUS PART NUMBER</p> <p>DESCRIPTION</p>	<p>SENUS PART NUMBER</p> <p>DESCRIPTION</p>	<p>SENUS PART NUMBER</p> <p>DESCRIPTION</p>	<p>SENUS PART NUMBER</p> <p>DESCRIPTION</p>	<p>SENUS PART NUMBER</p> <p>DESCRIPTION</p>
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SENUS a xylem brand

837 Davis Drive, Morrisville, NC 27560 USA

M400B2 External Dimensions

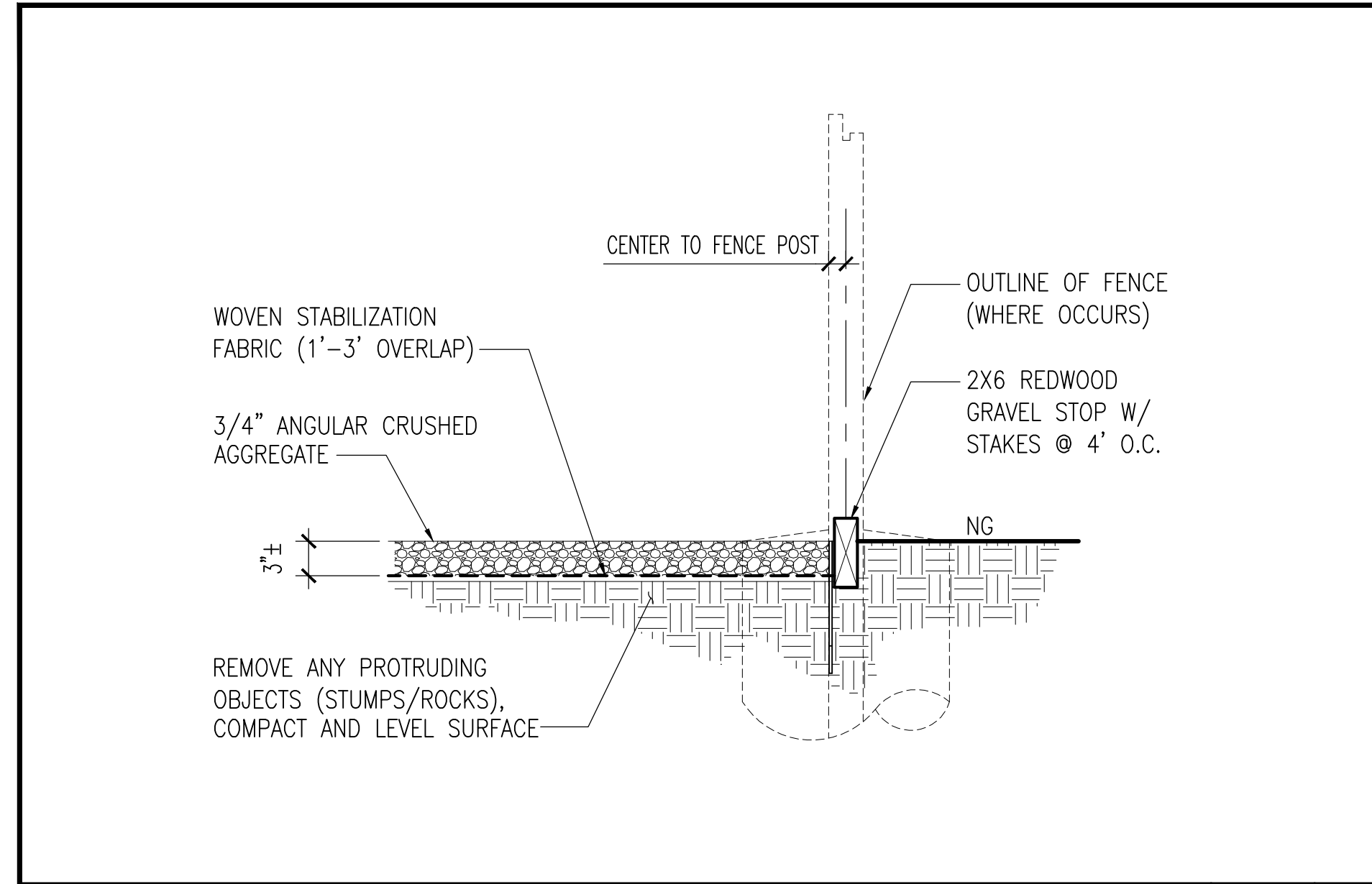
PROJECT: M410B

SHEET TITLE: B

REVISION: 1 OF 1

SCALE: .05

THIRD ANGLE PROJECTION



GRAVEL STOP SCALE: NTS 7

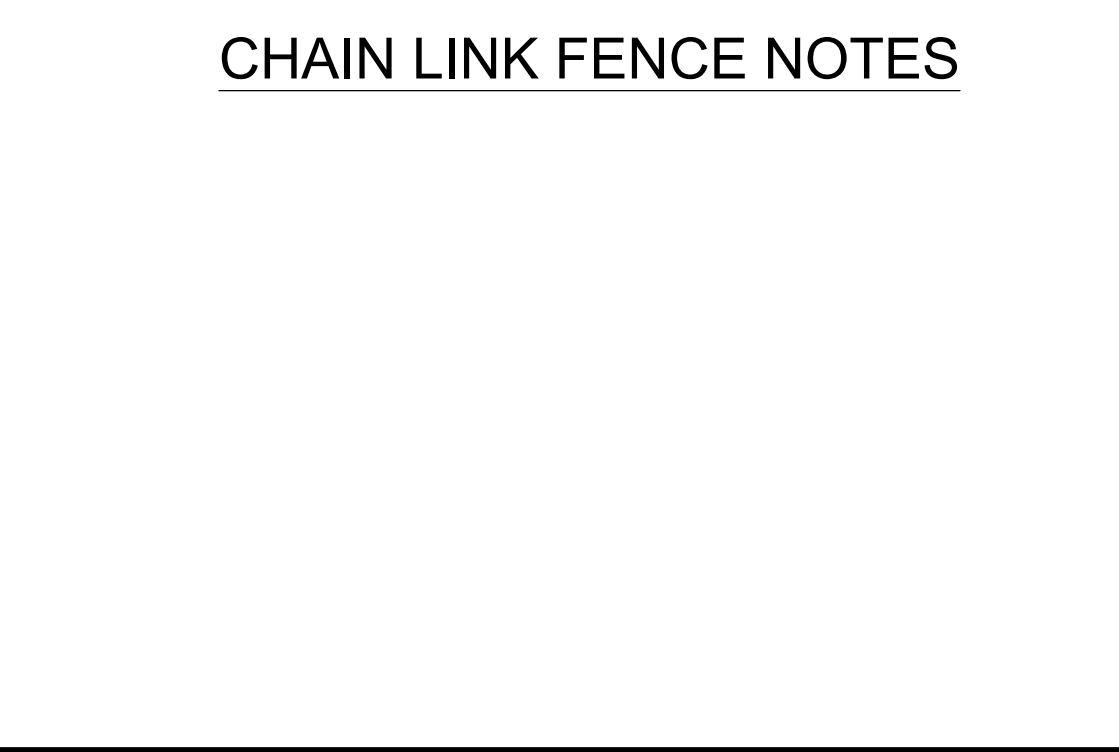
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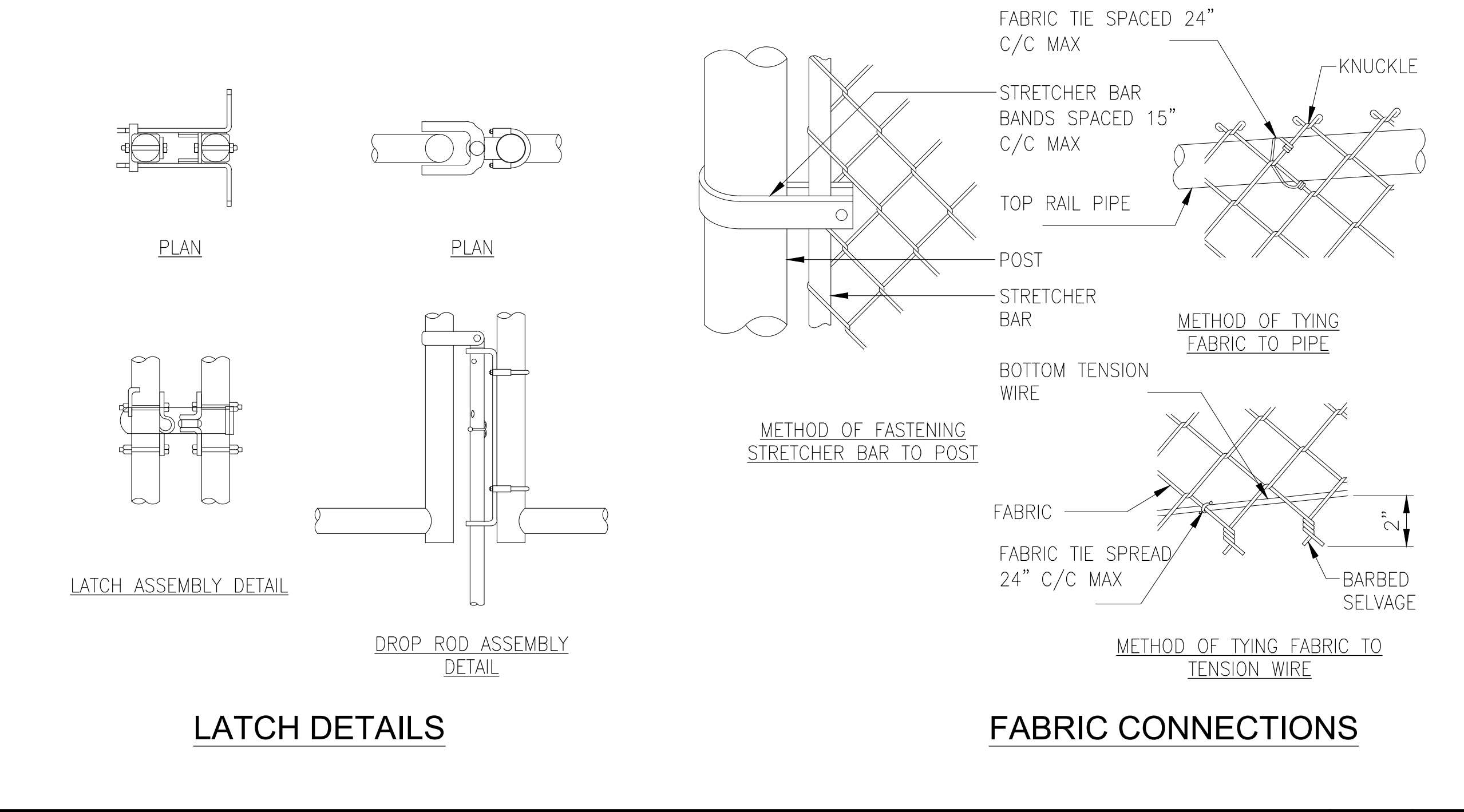
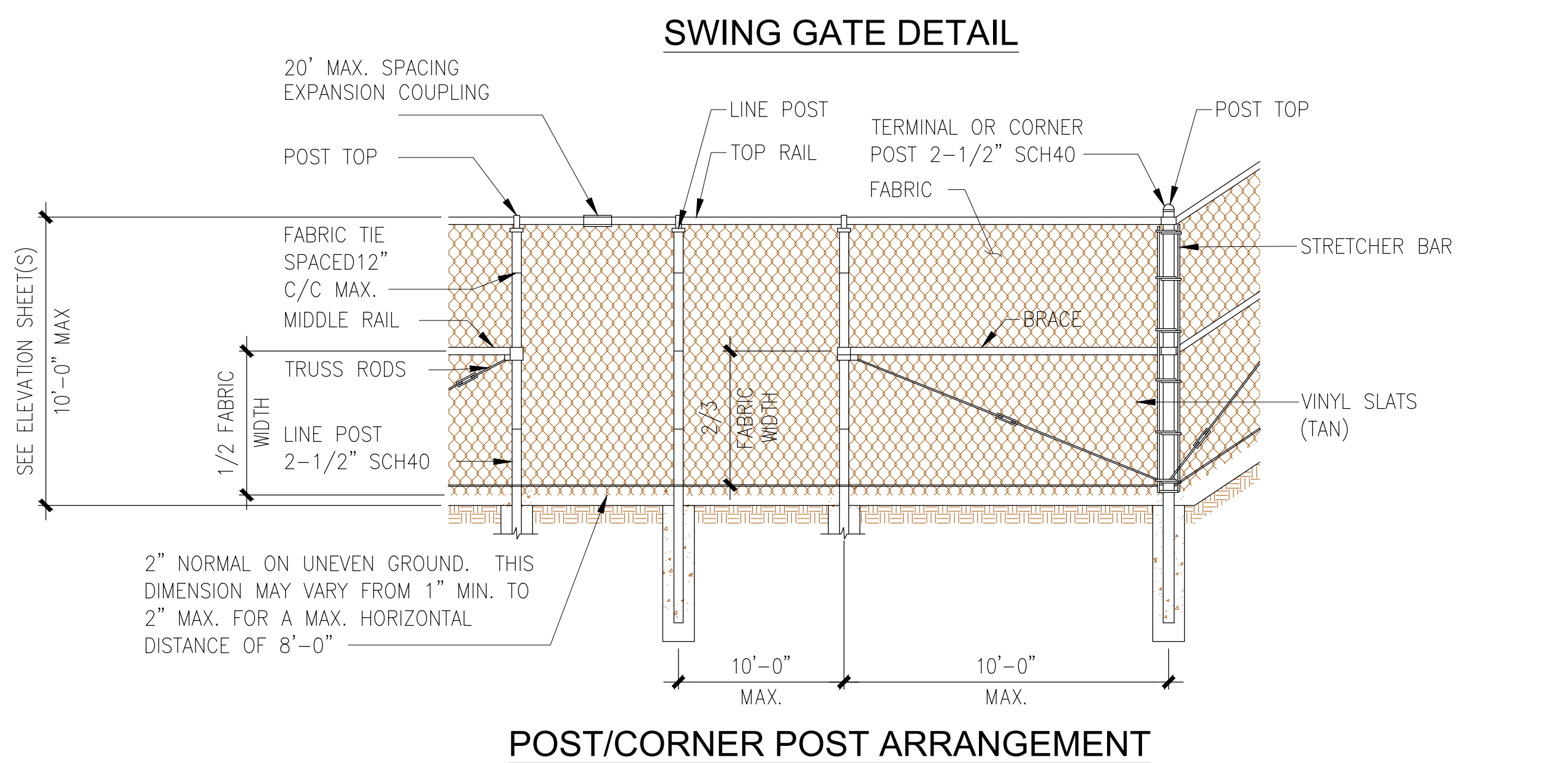
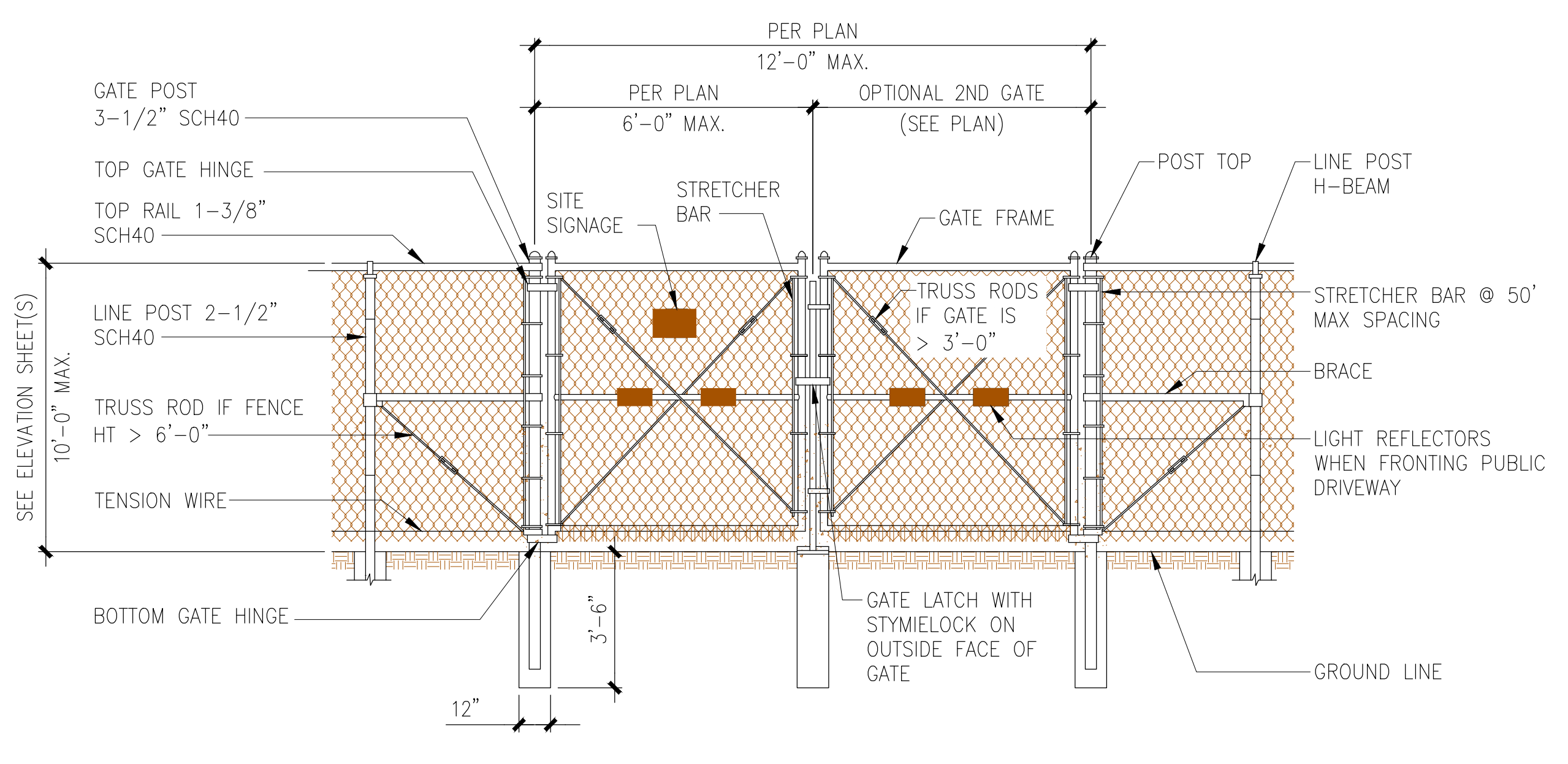
NOT USED SCALE: NTS 3

- FENCE NOTES:**
- ZINC COATING** - THE WEIGHT OF THE COATING SHALL NOT BE LESS THAN 1.2 OUNCES PER SQUARE FOOT OF ACTUAL SURFACE COVERED. ALL FERROUS METALS USED AS PART OF THE FENCE INSTALLATION SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL. ALL SCREWS, BOLTS, LOCK WASHERS, NUTS, ETC. SHALL BE HOT DIP GALVANIZED OR MADE OF STAINLESS STEEL.
 - FABRIC** - STANDARD INDUSTRIAL GRADE #9 GAUGE WITH 1-3/4" INCH MESH ZINC COATED CHAIN LINK WITH A BREAKING STRENGTH OF NOT LESS THAN 1290 POUNDS SHALL BE USED. THE FABRIC SHALL BE ZINC COATED BY THE HOT DIP PROCESS AFTER FABRICATION.
 - METAL POSTS** - METAL POSTS (LINE, CORNER, TERMINAL, GATE POSTS, MIDDLE RAILS, BRACES AND TOP RAIL) SHALL BE HOT DIP GALVANIZED SCHEDULE 40 TUBULAR STEEL WITH AN OUTSIDE DIAMETER AS INDICATED ON THIS DRAWING. A POST TOP FITTING OF GALVANIZED STEEL WILL BE INSTALLED TO EXCLUDE MOISTURE.
 - POST CAPS** - ALL POST CAPS TO USE THE BARBED WIRE OUTRIGGER BRACKET AND SHALL BE ATTACHED TO THE POST WITH TAMPER RESISTANT SCREWS, BRADS, OR BOLTS.
 - TOP RAIL** - A MINIMUM OF ONE COUPLING IN EACH STRAIGHT RUN OF TOP RAIL, SHALL HAVE A HEAVY SPRING INSERTED WITHIN THE COUPLING TO TAKE UP EXPANSION AND CONTRACTION OF THE TOP RAIL. THE TOP RAIL SHALL BE FASTENED TO TERMINAL POSTS WITH PRESSED STEEL CONNECTIONS.
 - MIDDLE RAIL** - THE MIDDLE RAIL SHALL BE OF THE SAME MATERIAL AS THE TOP RAIL AND INSTALLED WITH HOT DIP GALVANIZED FITTINGS ATTACHED TO THE POSTS.
 - BRACE RAIL** - BRACE RAIL MATERIAL SHALL BE OF THE MATERIAL AS THE TOP RAIL AND LOCATED 2/3 OF THE DISTANCE UP FROM THE BOTTOM OF THE FABRIC. BRACE RAILS SHALL BE SECURELY FASTENED TO POSTS BY SUITABLE PRESSED STEEL CONNECTIONS.
 - TRUSS RODS** - SHALL BE 3/8" ROUND GALVANIZED STEEL RODS WITH GALVANIZED TURNBUCKLES. THE ZINC COATING SHALL BE NOT LESS THAN 1.2 OUNCES PER SQUARE FOOT OF SURFACE.
 - TENSION WIRE** - THE TENSION WIRE SHALL BE OF #7 GAUGE HOT DIP GALVANIZED SPRING TENSION WIRE WITH A BREAKING STRENGTH OF NOT LESS THAN 1900 POUNDS. THIS WIRE SHALL BE KEPT TAUT WITH GALVANIZED TURNBUCKLES AND ATTACHED TO POSTS WITH GALVANIZED HARDWARE OR CABLE CLAMPS.
 - FABRIC TIES** - THE FABRIC TIES SHALL BE ALUMINUM WIRE. NOT LESS THAN #9 GAGE.
 - STRETCHER BARS** - THE STRETCHER BARS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THAN 5/16" X 3/4" AND NOT LESS THAN 2" SHORTER THAN THE FABRIC. STRETCHER BAR BANDS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THAN 5/16" X 1 1/2" WITH 5/16" DIAMETER GALVANIZED CARRIAGE BOLT.
 - BARBED WIRE** - BARBED WIRE OF GALVANIZED STEEL (OR ALUMINUM) CONSISTING OF 12 1/2 GAUGE WIRE WITH 4-POINT BARBS OF 14 GAUGE WIRE SPACED 5 INCHES APART.
 - GATE FRAMES** SHALL BE CONSTRUCTED OF 2 1/2 INCH OUTSIDE DIAMETER HEAVY DUTY GALVANIZED STEEL PIPE. THE GATES SHALL BE ASSEMBLED USING CORNER FITTINGS OF HEAVY PRESSED STEEL OR MALLEABLE CASTINGS OR MAY BE WELDED IF THE ENTIRE GATE FRAME IS HOT DIP GALVANIZED AFTER THE WELDING. ALL GATES SHALL BE EQUIPPED WITH HEAVY DUTY GALVANIZED STEEL TYPE HINGES WITH LARGE BEARING SURFACES OF ADEQUATE STRENGTH TO SUPPORT THE GATE. THE HINGES SHALL NOT TWIST OR TURN UNDER THE ACTION OF THE GATE. GATES WILL PROVIDE A FULL RANGE OF MOTION AND BE EASILY OPENED AND CLOSED BY ONE PERSON. GATE LATCH SHALL BE CARGO PROTECTORS, INC. MODEL FL-100. LATCH SHALL BE EQUIPPED TO RECEIVE A PADLOCK.

CHAIN LINK FENCE NOTES



CHAIN LINK FENCE SCALE: NTS 3



FABRIC CONNECTIONS SCALE: NTS 3

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PROJECT INFORMATION
BAYVIEW STATION
 LAND ONLY
 LOS GATOS, CA 95030

SHEET TITLE
DETAILS

SHEET NUMBER
D-2

GROUNDING NOTES

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION SHALL BE PERFORMED ACCORDING TO SITE CONDITIONS.
- ALL GROUNDING CONDUCTORS: #2 AWG, SOLID, BARE, TINNED, COPPER WIRE UNLESS OTHERWISE NOTED.
- GROUND BAR LOCATED ON EXTERIOR AND INTERIOR OF SHELTER SHALL BE PROVIDED, FURNISHED, AND INSTALLED BY THE SHELTER MANUFACTURER.
- ALL BELOW GRADE CONNECTIONS SHALL BE EXOTHERMIC/CADWELD TYPE; ABOVE GRADE CONNECTIONS SHALL BE EXOTHERMIC/CADWELD, OR MECHANICAL (USE PROPER/BEST TYPE FOR EACH CONDITION).
- GROUND RING (WHERE OCCURS) SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE, OR 6"(MINIMUM) BELOW THE FROST LINE.
- INSTALL GROUND CONDUCTORS, AND GROUND RODS, MINIMUM OF 2'-0" FROM SHELTER CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
- ALL EXTERIOR AND/OR BELOW GRADE EXOTHERMIC/CADWELD GROUND CONNECTION SHALL BE TREATED WITH GALVANIZING COLD SPRAY.
- ALL GROUNDING CONNECTIONS REQUIRED TO COMPLETE THIS PROJECT, WHETHER SHOWN HEREON OR NOT, SHALL BE MADE BY ELECTRICAL CONTRACTOR ACCORDING TO BEST FIELD PRACTICE AND COMPLY WITH ALL NEC REQUIREMENTS AND RECOMMENDATIONS FOR LIFE SAFETY.
- OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
- GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS, OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- ALL EXTERIOR GROUNDING AND TOP OF GROUNDING RODS SHALL BE BURIED TO A MINIMUM DEPTH OF 1'-6" BELOW FINISH GRADE, ELECTRIC METER GROUND EXCEPTED.
- ALL GROUNDING CONDUCTORS SHALL BE #2 SOLID BARE TINNED COPPER.
- GROUND SYSTEM MUST BE INDEPENDENTLY TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS SUBMIT AN INDEPENDENT FALL OF POTENTIAL TESTING REPORT.
- NOTIFY PROJECT MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- CHEMICAL GROUNDS SHALL BE XIT, CHEM-ROD OR APPROVED EQUAL, WHEN REQUIRED. USE MUST BE APPROVED BY PROJECT MANAGER.
- ALL UNDERGROUND GROUNDING CONNECTORS ARE TO BE CADWELDED ABOVE GRADE GROUNDING SHALL BE EITHER CADWELD OR MECHANICAL. AS SPECIFIED ON DRAWINGS.
- ALL GROUNDING INSTALLATION IS TO BE IN ACCORDANCE WITH THE NEXTEL STANDARD SPECIFICATIONS AND SUPPLEMENTS PROVIDED BY THE PROJECT MANAGER.
- GROUNDS AREA TO BE INSTALLED A MINIMUM OF 2'-0" FROM SHELTER OR TOWER.
- GATE GROUNDING FLEX CONNECTOR: REF. "CADWELD" CATALOG #AQ402 FOR GATE/POST FLEX CONNECTOR (EXAMPLE: PART NO. A239FC25-Y-XL FOR 3" POST).
- GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS, OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
- CONTRACTOR TO PROVIDE CERTIFICATION THAT GROUNDING SYSTEM HAS BEEN INSTALLED TO ACHIEVE < 5 OHMS RESISTANCE.

ELECTRICAL NOTES

- ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING: AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) AMERICAN STANDARD ASSOCIATION (ASA) FIRE PROTECTION AGENCY (NFPA) AMERICAN NATIONAL STANDARD INSTITUTE (ANSI) NATIONAL ELECTRICAL CODE (NEC)
- ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER 14 DAYS PRIOR TO THE OUTAGE. ANY OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANELBOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS
- SHOP DRAWINGS SHALL BE SUBMITTED FOR ITEMS INDICATED ON PLANS. SHOP DRAWINGS SHALL INCLUDE ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS AND MANUFACTURER'S BROCHURES.
- COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. REVIEW THE DRAWINGS OF OTHER TRADES AND LOCATION OF EQUIPMENT.
- EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE U.L. APPROVED. DO NOT CUT OR BREAK ANY EXISTING REINFORCING BARS IN EXISTING CONCRETE OR MASONRY. IF IN DOUBT REGARDING LOCATION OF REINFORCING, THEN CONTRACTOR, AT CONTRACTOR'S EXPENSE, SHALL UTILIZE X-RAY, ULTRA-SOUND, OR OTHER AVAILABLE TECHNOLOGY TO LOCATE EXISTING REINFORCEMENTS PRIOR TO DRILLING OR CORING OPERATIONS.
- CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS: LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS. LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS. PROVIDE A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN FLEXIBLE CONDUIT RUNS. MAXIMUM LENGTH SHALL BE SIX FEET UNLESS OTHERWISE NOTED.
- ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAWCUTTING, TRENCHING, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO PERFORM HIS WORK. ATTENTION IS CALLED TO THE FACT THAT THERE ARE EXISTING UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN TRENCHING FOR HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGES CAUSED BY HIM OR HIS WORK.
- WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.
- UTILITY PENETRATIONS, OF ANY KIND, IN FIRE AND SMOKE PARTITIONS, NON-RATED CEILINGS, AND/OR NON-RATED WALLS, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY INSTALLED.
- STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.
- IDENTIFICATION NAMEPLATES SHALL BE MICARTA 1/8 INCH THICK AND OF APPROVED SIZE WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4 INCH HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED FOR ALL CIRCUITS IN THE SERVICE DISTRIBUTION AND POWER DISTRIBUTION SWITCHBOARDS OR PANELBOARDS, DISCONNECTING SWITCHES, TRANSFORMERS, TERMINAL CABINETS, TELEPHONE CABINETS, ETC. ALL NAMEPLATES SHALL BE ATTACHED WITH SCREWS. PULL BOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE MARKED WITH A PERMANENT MARKER.
- THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE DETAILS, OR SECTIONS PRIOR TO INSTALLATION.
- DRAWINGS ARE DIAGRAMMATIC ONLY. ROUTING OF CONDUITS, RACEWAYS, CABLE TRAYS, AND/OR LADDER RACKS SHALL BE AT THE DISCRETION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER SECTIONS. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES.
- RIGID GALVANIZED STEEL CONDUIT SHALL BE FULL WEIGHT THREADED TYPE. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILING SPACES WHERE NOT SUBJECT TO MECHANICAL DAMAGE. PVC SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB OR BELOW GRADE. FLEXIBLE STEEL CONDUIT MAY BE USED AT OUTLET CONNECTIONS WITH NO RUNS LONGER THAN SIX FEET. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUITS.
- RIGID GALVANIZED STEEL CONDUIT FITTINGS SHALL BE THREADED AND THOROUGHLY GALVANIZED. ELECTRICAL METALLIC TUBING (EMT) CONDUIT FITTINGS SHALL BE STEEL, RAIN-TIGHT THREADLESS COMPRESSION TYPE. DIE CAST, SET SCREW, OR INDENTER TYPES ARE NOT ACCEPTABLE. FLEXIBLE STEEL CONDUIT FITTINGS SHALL BE MALLEABLE IRON CLAMP, SQUEEZE TYPE OR STEEL TWIST-IN TYPE WITH INSULATED THROAT. SET SCREW TYPE IS NOT ACCEPTABLE.

- ALL CONDUCTORS SHALL BE COPPER #10 AWG MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY AND U.L. LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED.
- JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE, DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS. FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON WITH REMOVABLE, GASKETED, NON-FERROUS MACHINE SCREW SECURED COVERS. BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND EQUIPPED WITH PLASTER EXTENSION RINGS WHERE REQUIRED. BOXES SHALL BE LABELED TO INDICATE PANEL AND CIRCUIT NUMBER, OR TYPE OF SIGNAL OR COMMUNICATIONS SYSTEM.
- ALL OUTDOOR ELECTRICAL DEVICES OR EQUIPMENT SHALL BE OF WEATHERPROOF TYPE.
- ALL CONNECTIONS TO GROUND BUSES SHALL BE MADE W/CRIMP TYPE COMPRESSION CONNECTORS (2 HOLE LUGS). BUSS SHALL BE DRILLED TO ACCOMMODATE ALL CONNECTORS.

ELECTRICAL NOTES

SCALE
1"=1'-0" 3

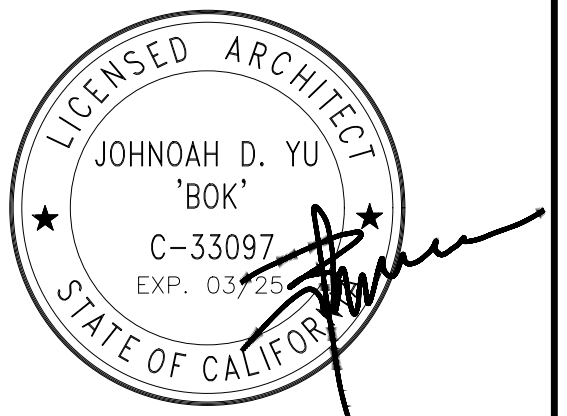
APPROVAL STAMP



XYLEM INC.
301 WATER STREET, SUITE 200
WASHINGTON, DC 20003



DIVERSIFIED COMMUNICATIONS
SERVICES, INC.



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ARCHITECT TO ALTER THIS DOCUMENT

DRAWN BY : DY
CHECKED BY : JY
APPROVED BY : JY

**CONSTRUCTION
DRAWINGS**

SUBMITTALS		
REV	DATE	DESCRIPTION
A	02-20-24	FOR REVIEW
0	04-29-24	FOR SUBMITTAL
1	06-25-24	INCL TOWER DRAWINGS

A&E PROJECT NUMBER

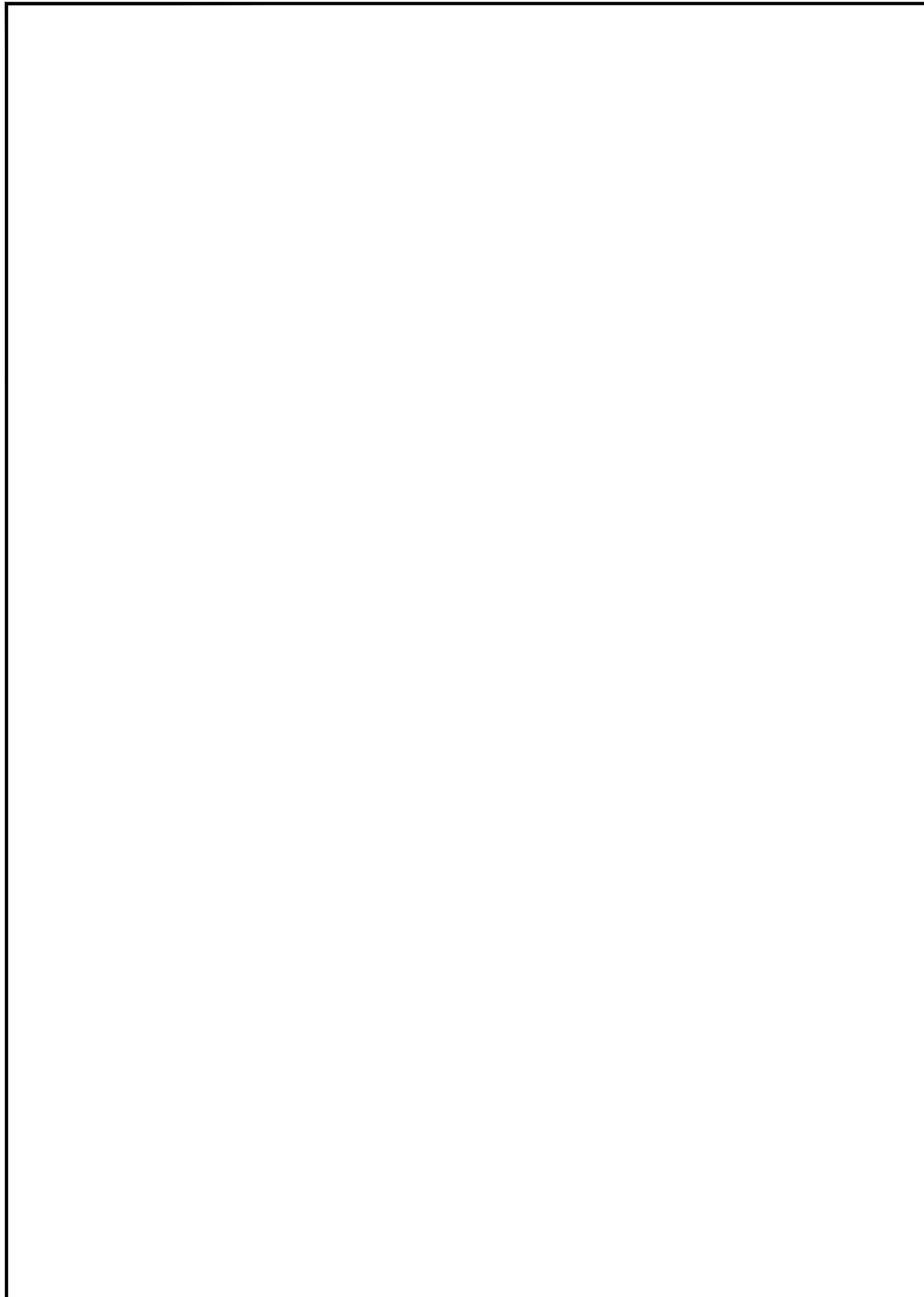
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PROJECT INFORMATION
BAYVIEW STATION
LAND ONLY
LOS GATOS, CA 95030

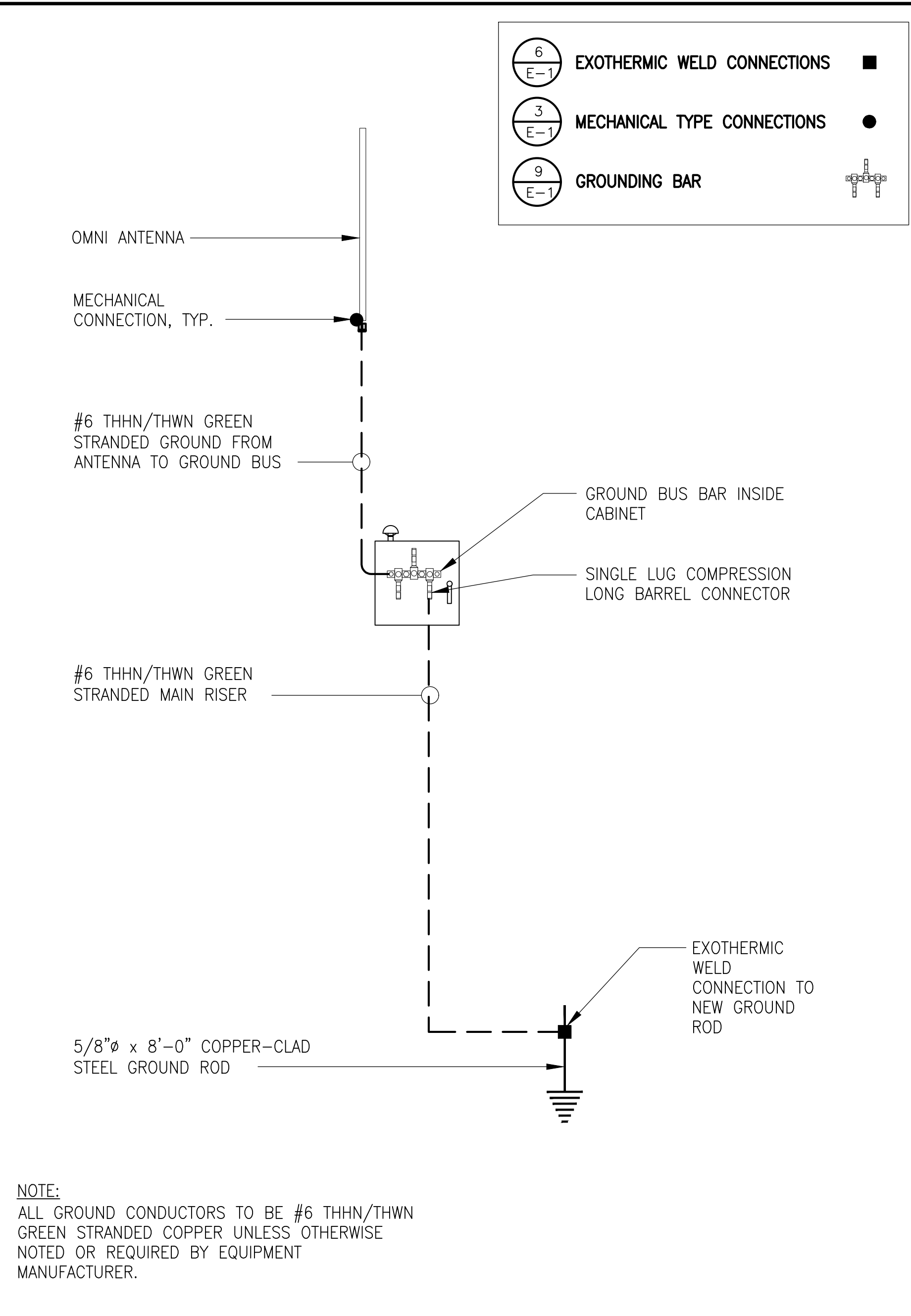
SHEET TITLE
ELECTRICAL NOTES

SHEET NUMBER

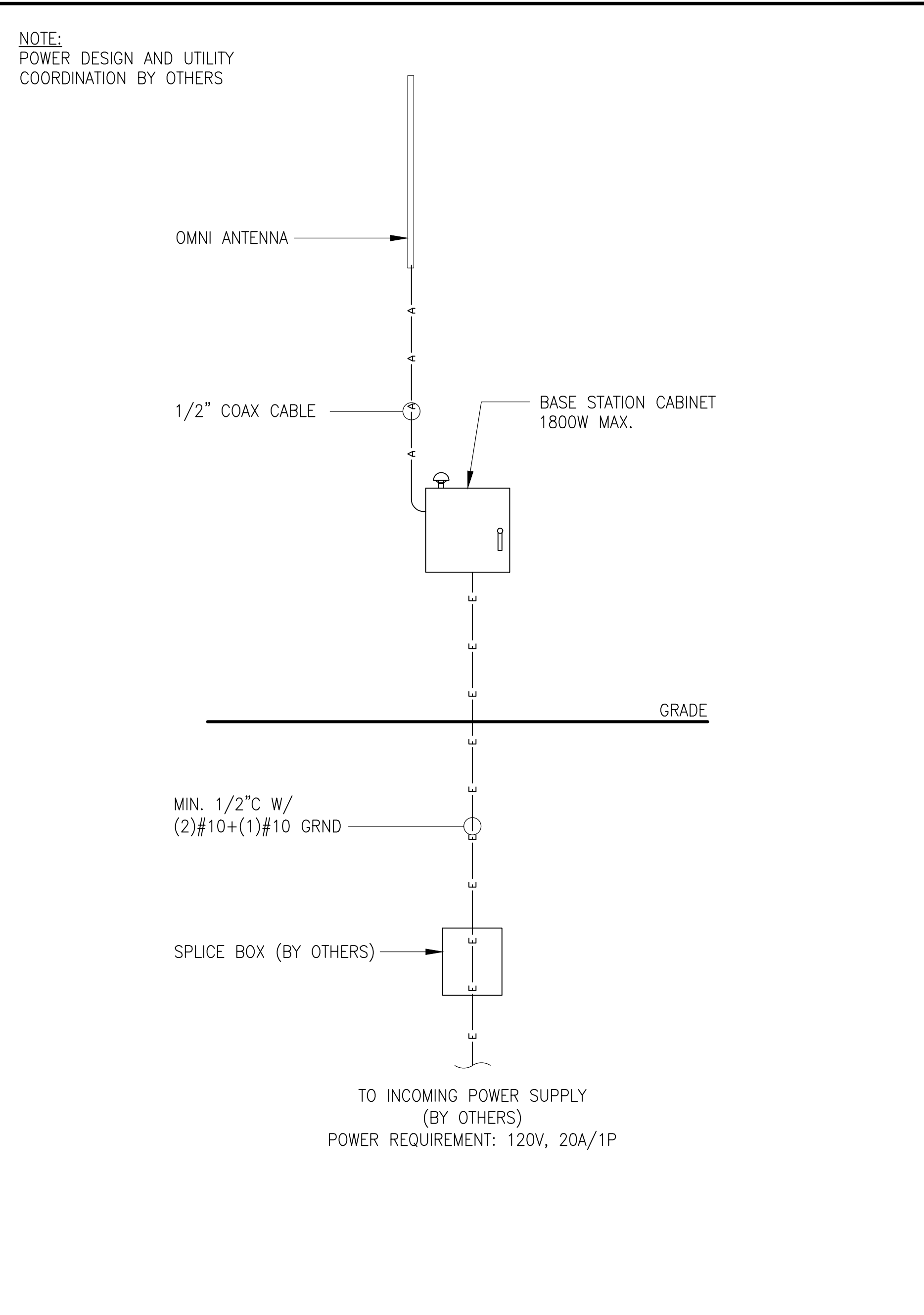
E-1



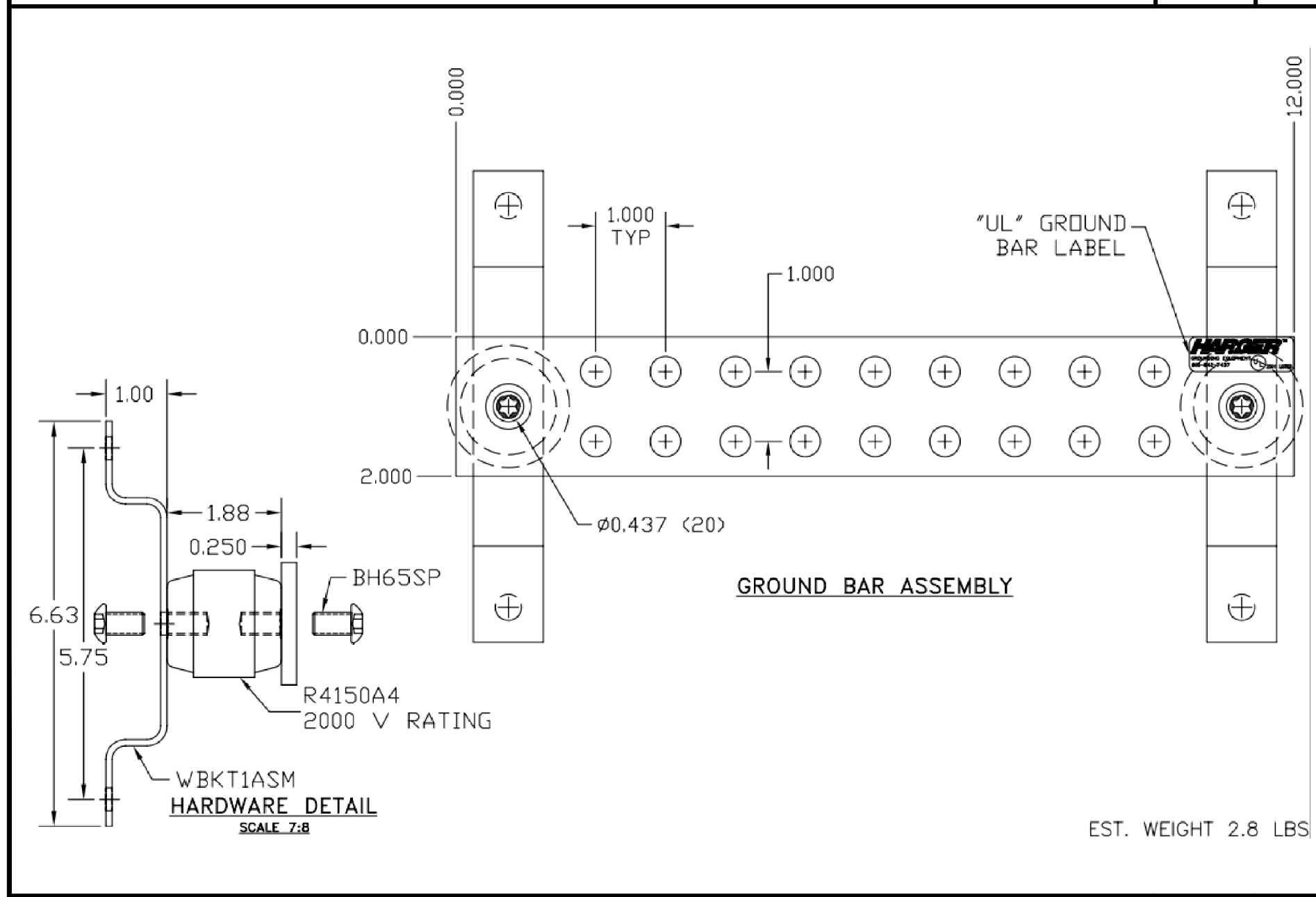
NOT USED SCALE 8



GROUNDING SCHEMATIC SCALE 5



SINGLE LINE DIAGRAM SCALE 2



MAIN GROUND BAR SCALE 9

TYPE PH	TYPE NC	TYPE NX1	TYPE VB	TYPE SS	TYPE TA
TYPE XA	TYPE GT	TYPE GL LUG	TYPE LJ	TYPE HA	TYPE VS
TYPE PG	TYPE GR	TYPE PC	TYPE RR		

EXOTHERMIC WELD SCALE 6

1 BOLT PARALLEL CLAMP	"U" BOLT PIPE CLAMP	2-BOLT PARALLEL	UNIVERSAL PIPE CLAMP 50HZ
	UNIVERSAL PIPE CLAMP 75/1.25	CAST "T" SPLICER	CROSS RUN CLAMP
		2-HOLE LUG	1 BOLT PARALLEL CLAMP
			CROSS RUN CLAMP

MECHANICAL TYPE SCALE 3

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 WASHINGTON, DC 20003



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DRAWN BY : DY
 CHECKED BY : JY
 APPROVED BY : JY

CONSTRUCTION DRAWINGS

SUBMITTALS		
REV	DATE	DESCRIPTION
A	02-20-24	FOR REVIEW
0	04-29-24	FOR SUBMITTAL
1	06-25-24	INCL TOWER DRAWINGS

A&E PROJECT NUMBER -

PROJECT INFORMATION
BAYVIEW STATION
 LAND ONLY
 LOS GATOS, CA 95030

SHEET TITLE
ELECTRICAL GROUNDING AND DETAILS

SHEET NUMBER
E-2

40' SELF SUPPORT TOWER

BAYVIEW RESERVIOR

LEXINGTON HILLS, CALIFORNIA 95033

SANTA CLARA COUNTY

LAT: 37° 09' 09.00"; LONG: -121° 59' 30.12"

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 9370 ELDER CREEK ROAD SACRAMENTO, CA 95829
 (916) 381-5053

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PH: (916) 381-5053	
ENGINEER OF RECORD:	
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SHEET INDEX	
SHEET NUMBER	DESCRIPTION
T-1	TITLE SHEET
N-1	NOTES
S-1	TOWER ELEVATION
S-2	DRILLED PIER FOUNDATION
S-3	WELDED TOWER SECTION DETAILS
S-4	SPECIAL INSPECTION

WIND DESIGN DATA	
REFERENCE STANDARD	ANSI/TIA-222-H-2017
LOCAL CODE	2022 CALIFORNIA BUILDING CODE
BASIC WIND SPEED (MPH)	99
SERVICE WIND SPEED (MPH)	60
RISK CATEGORY	III
EXPOSURE CATEGORY	C
MAXIMUM TOPOGRAPHIC FACTOR, K_{zt}	2.926

FOUNDATION DESIGN DATA	
GEOTECHNICAL ENGINEER	BAGG ENGINEERS
GEOTECHNICAL ENGINEER REPORT #	SJWAT-87-00
GEOTECHNICAL REPORT DATE	3/18/2024

SEISMIC DESIGN DATA	
SEISMIC IMPORTANCE FACTOR	1.25
S_s	2.438
S_1	1.009
SITE CLASS	C
S_{DS}	1.950
S_{D1}	0.942
SEISMIC DESIGN CATEGORY	E
BASIC SEISMIC FORCE RESISTING SYSTEM	STEEL TRUSS SELF SUPPORT TOWER
DESIGN BASE SHEAR (KIPS)	0.756
C_s	0.813
R	3
SEISMIC ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE

FACTORED BASE REACTIONS	
SHEAR (KIPS)	1.3
AXIAL (KIPS)	1.1
MOMENT (KIP-FT)	35.0

FACTORED LEG REACTIONS	
MAX COMPRESSION (KIPS)	20.0
COMPRESSION SHEAR (KIPS)	0.4
MAX TENSION (KIPS)	19.6
TENSION SHEAR (KIPS)	0.6

BAYVIEW RESERVIOR
 LEXINGTON HILLS, CALIFORNIA
 40' SELF SUPPORT TOWER

PROJECT No:	65024-0025.002.8200
DRAWN BY:	TAN
DESIGNED BY:	SMS
CHECKED BY:	MTB
DATE:	6/24/2024



TITLE SHEET

T-1

REV	DATE	DESCRIPTION
	06/25/24	

GENERAL NOTES:

- ERECTION TOLERANCES SHALL BE AS SPECIFIED BY THE TIA STANDARD.
- ALL LEG FLANGE BOLTS, EXCEPT ANCHOR RODS, SHALL BE FULLY PRETENSIONED IN ACCORDANCE WITH AISC'S "TURN-OF-NUT" METHOD. ALL OTHER BOLTS SHALL BE TORQUED TO THE SNUG-TIGHT CONDITION AS DEFINED BY AISC.
- ALL CLIMBING FACILITIES, TOWER LIGHTING, LIGHTNING PROTECTION, AND GROUNDING SHALL BE IN ACCORDANCE WITH THE REFERENCED TIA STANDARD AND SUPPLIED BY OTHERS, UNO.
- PAUL J. FORD AND COMPANY HAS NOT DESIGNED OR DETAILED STANDARD PARTS AND ASSEMBLIES SUCH AS ANTENNA MOUNTS, WAVEGUIDE LADDERS, GUY CABLE HARDWARE, ETC. IT IS ASSUMED THAT THESE ITEMS CAN BE MORE COST EFFECTIVELY SUPPLIED BY OTHERS IN LIEU OF PRODUCING A CUSTOM DESIGN.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ANY UTILITIES THAT MAY BE ENCOUNTERED PRIOR TO EXCAVATION.
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION).
- THE CONTRACTOR MUST BE EXPERIENCED IN THE PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED ON THESE DRAWINGS. BY ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED TO DO THIS WORK IN THE JURISDICTION IN WHICH THE WORK IS TO BE PERFORMED.
- SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE LAST SHEET OF THESE DRAWINGS.
- SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WORK PERFORMED ON THE PREMISES OF A FABRICATOR APPROVED IN ACCORDANCE WITH SECTION 1704.2.5.1 OF THE CBC.

STEEL NOTES:

- ALL STEEL SHALL CONFORM TO THE FOLLOWING:
 - ALL STEEL SHAPES AND PLATES: ASTM A572 GR 50 (50 KSI YIELD POINT MATERIAL)
 - STRUCTURAL BOLTS: ASTM A325 TYPE 1 WITH ASTM A563 GRADE DH NUTS
 - ANCHOR RODS: ASTM A193 GR B7 WITH ASTM A194 GRADE 2H NUTS
- ALL SNUG-TIGHTENED BOLTS SHALL BE PROVIDED WITH LOCKING HARDWARE. ALL PRETENSIONED BOLTS SHALL BE PROVIDED WITH WASHERS CONFORMING TO ASTM F436 TYPE 1.
- BOLTS SHALL BE GALVANIZED ACCORDING TO ASTM A153. ANCHOR RODS SHALL BE GALVANIZED ACCORDING TO ASTM F2329.
- WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY AWS D1.1 USING E70XX ELECTRODES.
- ALL NEW STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
- GALVANIZED SURFACES DAMAGED DURING TRANSPORTATION OR ERECTION AND ASSEMBLY AS WELL AS ANY ABRASIONS, CUTS, FIELD DRILLING, AND FIELD WELDING SHALL BE REPAIRED WITH A COLD GALVANIZING COMPOUND CONFORMING TO ASTM A780.

GEOTECHNICAL AND SOIL NOTES:

- THIS FOUNDATION DESIGN WAS BASED ON THE GEOTECHNICAL INVESTIGATION REFERENCED ON SHEET T-1. THE CONTRACTOR SHALL REVIEW AND FOLLOW ALL RECOMMENDATIONS FOR CONSTRUCTION AND SOIL VERIFICATION AS LISTED IN THE GEOTECHNICAL REPORT. IF THE CONTRACTOR DISCOVERS ANY SUBSURFACE CONDITIONS THAT ARE NOT AS REPRESENTED IN THE GEOTECHNICAL REPORT, THE GEOTECHNICAL ENGINEER AND PAUL J. FORD AND COMPANY SHALL BE CONTACTED IMMEDIATELY TO EVALUATE THE SIGNIFICANCE OF THE DEVIATION.
- THE MATERIAL BELOW THE FOUNDATION SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER TO ACHIEVE ADEQUATE DESIGN CAPACITY.
- THE EFFECT OF ADDITIONAL EXCAVATION FOR FOUNDATION INSTALLATION, WHERE REQUIRED, MAY HAVE AN IMPACT ON EXISTING EQUIPMENT AND/OR OTHER EXISTING STRUCTURES NEAR THE EXCAVATION. THE EOR HAS NOT BEEN PROVIDED WITH ANY SPECIFIC INFORMATION OR DETAILS REGARDING EXISTING EQUIPMENT OR OTHER EXISTING STRUCTURES ON THE SITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EFFECT THAT ANY EXCAVATION WORK HAS ON EXISTING NEARBY EQUIPMENT AND/OR STRUCTURES. CONTRACTOR SHALL COORDINATE THIS SITE-SPECIFIC INFORMATION WITH THE TOWER OWNER AND THE TESTING AGENCY PRIOR TO CONSTRUCTION AND FOUNDATION WORK. AFTER OBTAINING THE PRIOR WRITTEN PERMISSION OF THE TOWER OWNER, THE CONTRACTOR SHALL ADEQUATELY BRACE, SHORE, AND/OR RELOCATE THE INTERFERING EXISTING NEARBY EQUIPMENT AND/OR STRUCTURES AS NECESSARY.

CONCRETE NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 318 (LATEST EDITION) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE" ACI 301 (LATEST EDITION).
- CONCRETE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - 28 DAY COMPRESSIVE STRENGTH: 4500 PSI (MINIMUM)
 - WATER CEMENT RATIO: 0.45 (MAXIMUM). CEMENT SHALL CONFORM TO ASTM C150. WATER SHALL BE CLEAN AND FREE FROM OILS, ACIDS, ALKALIS, AND ORGANIC MATERIALS. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
 - DENSITY: 150 PCF (MINIMUM)
 - MAX COARSE AGGREGATE SIZE SHALL BE 3/4"
 - CONCRETE SHALL BE PROPORTIONED AND PRODUCED TO HAVE A SLUMP OF NOT MORE THAN 4" ± 1" OR 8" ± 1" FOR CONCRETE WITH VERIFIED SLUMP OF 2" TO 4" BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE.
 - FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 SHALL NOT EXCEED 25% OF CEMENTITIOUS MATERIALS BY WEIGHT.
 - ADMIXTURES SHALL NOT CONTAIN CHLORIDE IONS UNLESS APPROVED BY THE ENGINEER OF RECORD.
- WATER SHALL BE REMOVED FROM OPEN EXCAVATION PRIOR TO CONCRETE PLACEMENT UNLESS A TREMIE IS USED. WATER MUST NOT BE ALLOWED TO WASH THE CEMENT FROM THE AGGREGATE.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, ANCHOR RODS, INSERTS, ETC., AS REQUIRED BEFORE CONCRETE IS PLACED.
- CONCRETE SHALL BE POURED MONOLITHICALLY. CONTRACTOR SHALL SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS AND DETAILS TO THE EOR FOR REVIEW.
- CONCRETE SHALL BE PLACED WITHIN 24 HOURS OF EXCAVATION INSPECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXPOSED EXCAVATIONS PRIOR TO CONCRETE PLACEMENT. UNDER NO CIRCUMSTANCES SHALL A DRILLED PIER EXCAVATION REMAIN OPEN OVERNIGHT.
- THE TOP OF THE CONCRETE SHALL BE SLOPED (APPROXIMATELY 1/8" PER FOOT) TO DRAIN. THE EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" BY 3/4" MINIMUM.

- HOT WEATHER CONCRETE PLACEMENT SHALL COMPLY WITH ACI 305R. COLD WEATHER CONCRETE PLACEMENT SHALL COMPLY WITH ACI 306.1.
- THE TOP 6 FT OF CONCRETE SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION EQUIPMENT. VIBRATORS SHALL NOT BE USED TO TRANSPORT CONCRETE.
- THE CONTRACTOR SHALL ASSIST TESTING AGENCY IN MAKING A MINIMUM OF (2) TEST CYLINDERS PER TEST. CONCRETE TESTS SHALL BE CONDUCTED FROM A MINIMUM OF (5) RANDOMLY SELECTED TRUCKLOADS PER DAY. IF FEWER THAN (5) TRUCKLOADS OF CONCRETE ARE USED, A TEST SHALL BE CONDUCTED FROM EACH TRUCKLOAD. TESTING AGENCY SHALL PERFORM STRENGTH TESTS IN ACCORDANCE WITH ACI 318.

CONCRETE REINFORCING STEEL NOTES:

- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60, UNO.
- CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES, UNLESS OTHERWISE NOTED. CLEAR COVER TOLERANCES SHALL ADHERE TO APPLICABLE CONSTRUCTION TOLERANCES. REFERENCE ACI 117 SECTION 2.2 AND ACI 318. FOR PIERS, PROVIDE SPACER ROLLERS TO MAINTAIN SPECIFIED SIDE COVER. WHEN THE FOUNDATION INSTALLER ELECTS TO USE PIER CASINGS THAT WILL BE WITHDRAWN, THE REINFORCEMENT SIDE COVER SHALL BE INCREASED TO 4" BY THE INSTALLER PER ACI 336.1-01 SECTION 3.4.6.
- PROVIDE CLASS "B" TENSION LAP SPLICE OR FULL MECHANICAL SPLICE IN ACCORDANCE WITH ACI 318 (LATEST EDITION) FOR VERTICAL PIER REINFORCING STEEL.
- REINFORCING STEEL SHALL BE DETAILED, FABRICATED, BENT AND PLACED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 (LATEST EDITION).
- CONTRACTOR SHALL PROVIDE SPACERS, CHAIRS, BOLSTERS, ETC., NECESSARY TO SUPPORT REINFORCING STEEL. CHAIRS WHICH BEAR ON EXPOSED CONCRETE SURFACES SHALL HAVE ENDS WHICH ARE PLASTIC TIPPED OR STAINLESS STEEL.
- WELDING OF REINFORCING AND EMBEDMENTS IS PROHIBITED.

GENERAL FOUNDATION NOTES:

- THE FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA OBTAINED.
- WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND SAFETY REGULATIONS. THE FOUNDATION CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL BUILDING OFFICIALS FOR ANY INSPECTIONS THAT MAY BE REQUIRED.

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MAGNUM TOWERS
 9370 ELDER CREEK ROAD SACRAMENTO, CA 95829
 (916) 381-5053

BAYVIEW RESERVIOR
 LEXINGTON HILLS, CALIFORNIA
 40' SELF SUPPORT TOWER

PROJECT No:	65024-0025.002.8200
DRAWN BY:	TAN
DESIGNED BY:	SMS
CHECKED BY:	MTB
DATE:	6/24/2024



NOTES

N-1

REV	DATE	DESCRIPTION
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06/25/24

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TOWER ELEVATION

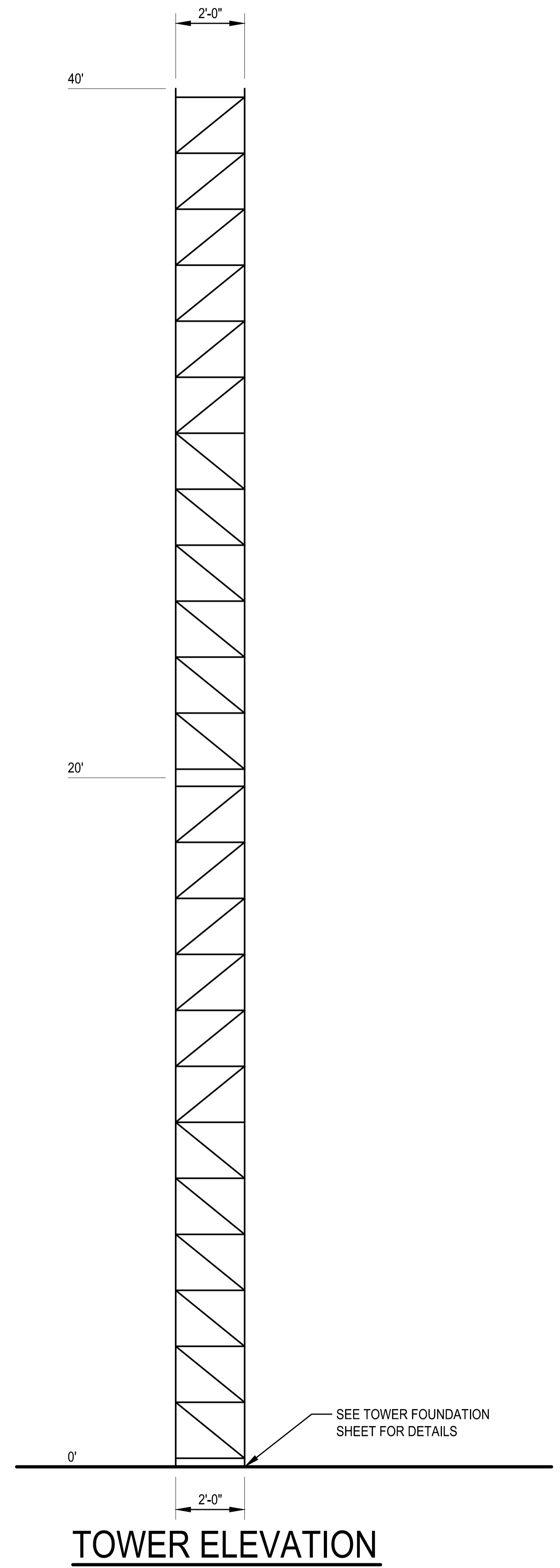
S-1

TOWER MATERIAL LIST

ELEVATION	LEGS	DIAGONALS	HORIZONTALS
20' TO 40'	1"Ø SOLID ROD	1/2"Ø SOLID ROD	1/2"Ø SOLID ROD
0' TO 20'	1 1/8"Ø SOLID ROD	5/8"Ø SOLID ROD	1/2"Ø SOLID ROD

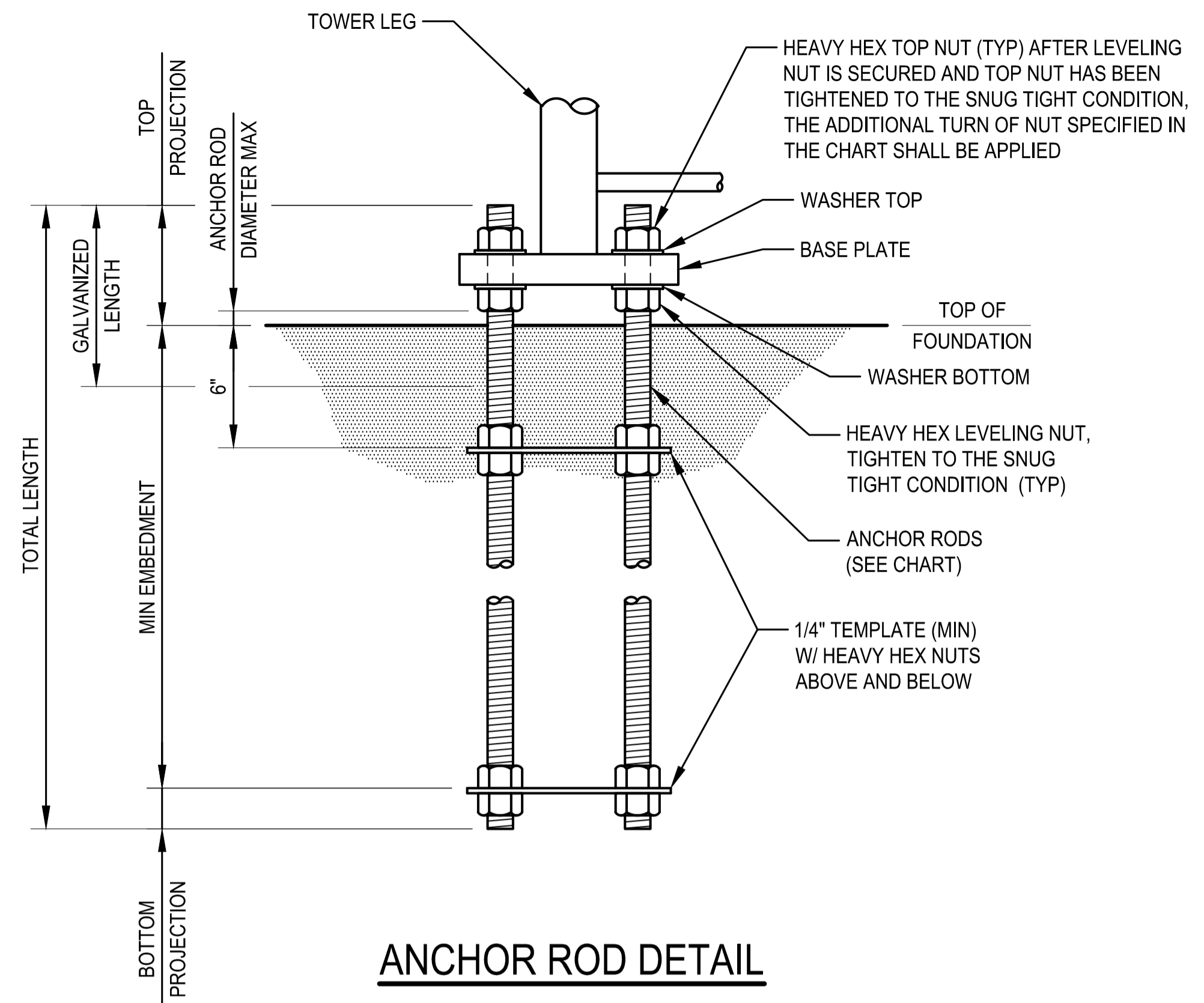
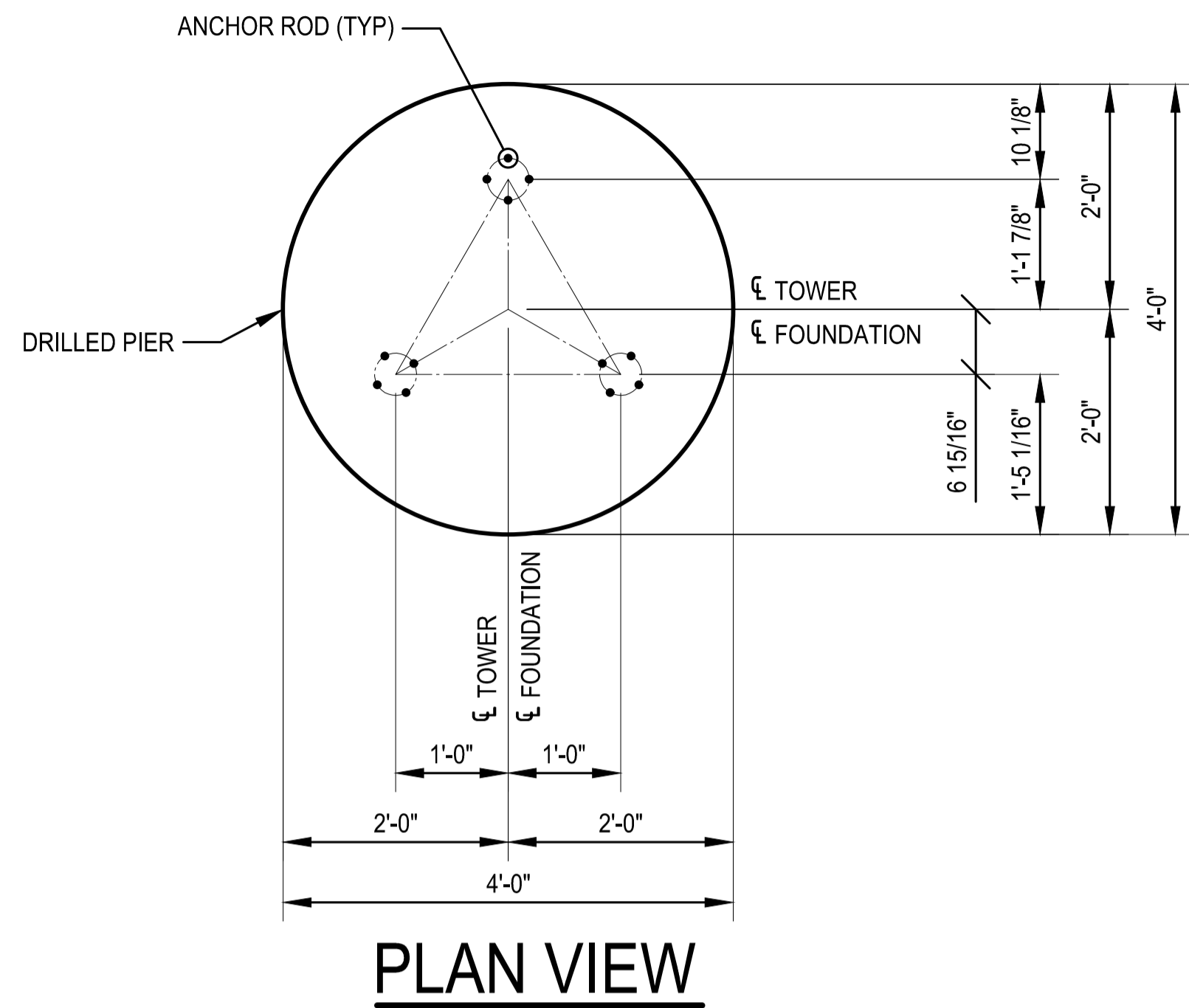
ANTENNA LIST

ELEV	QTY	ANTENNA	COAX
40'	1	COMMSCOPE DB589-Y	(1) 7/8"

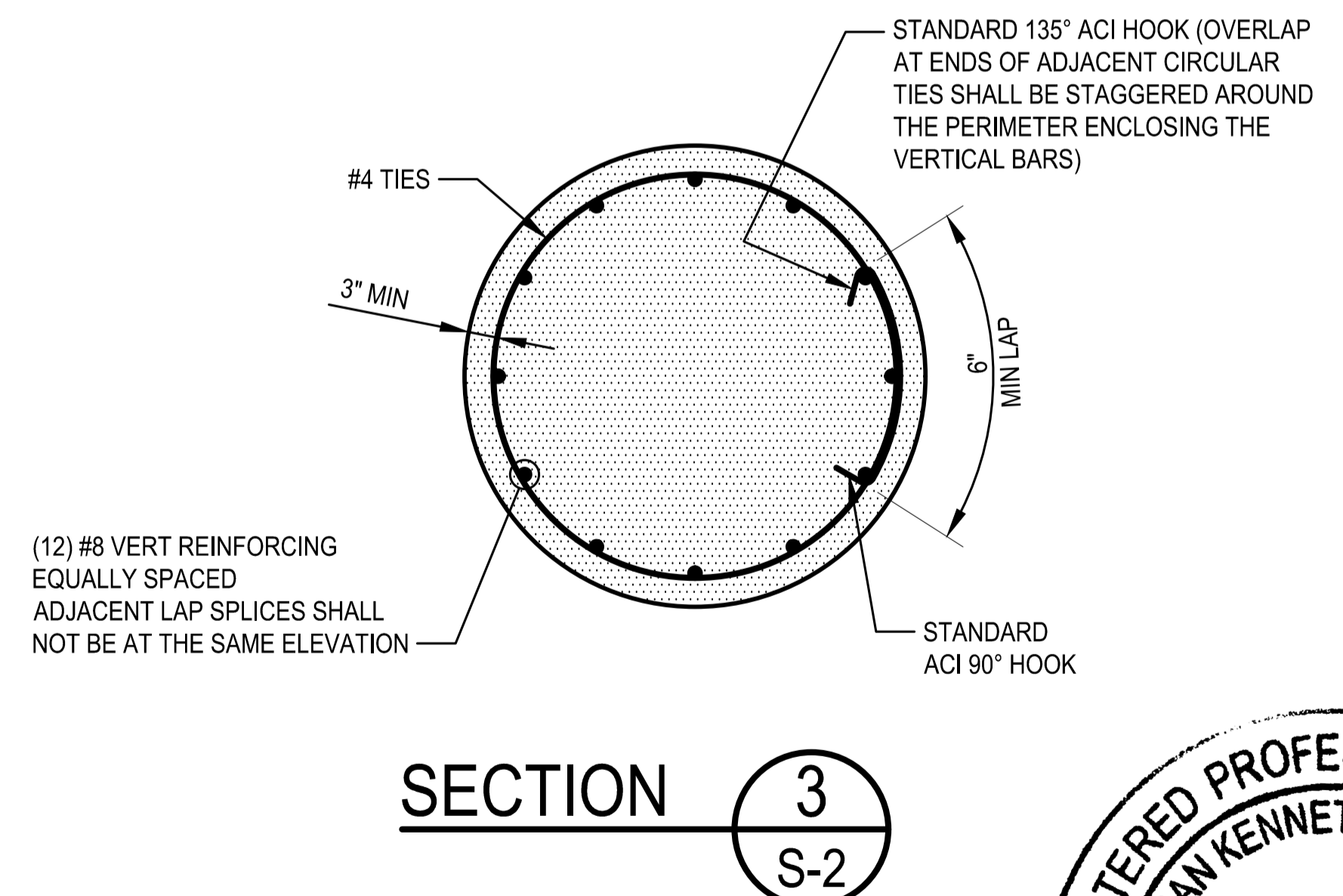
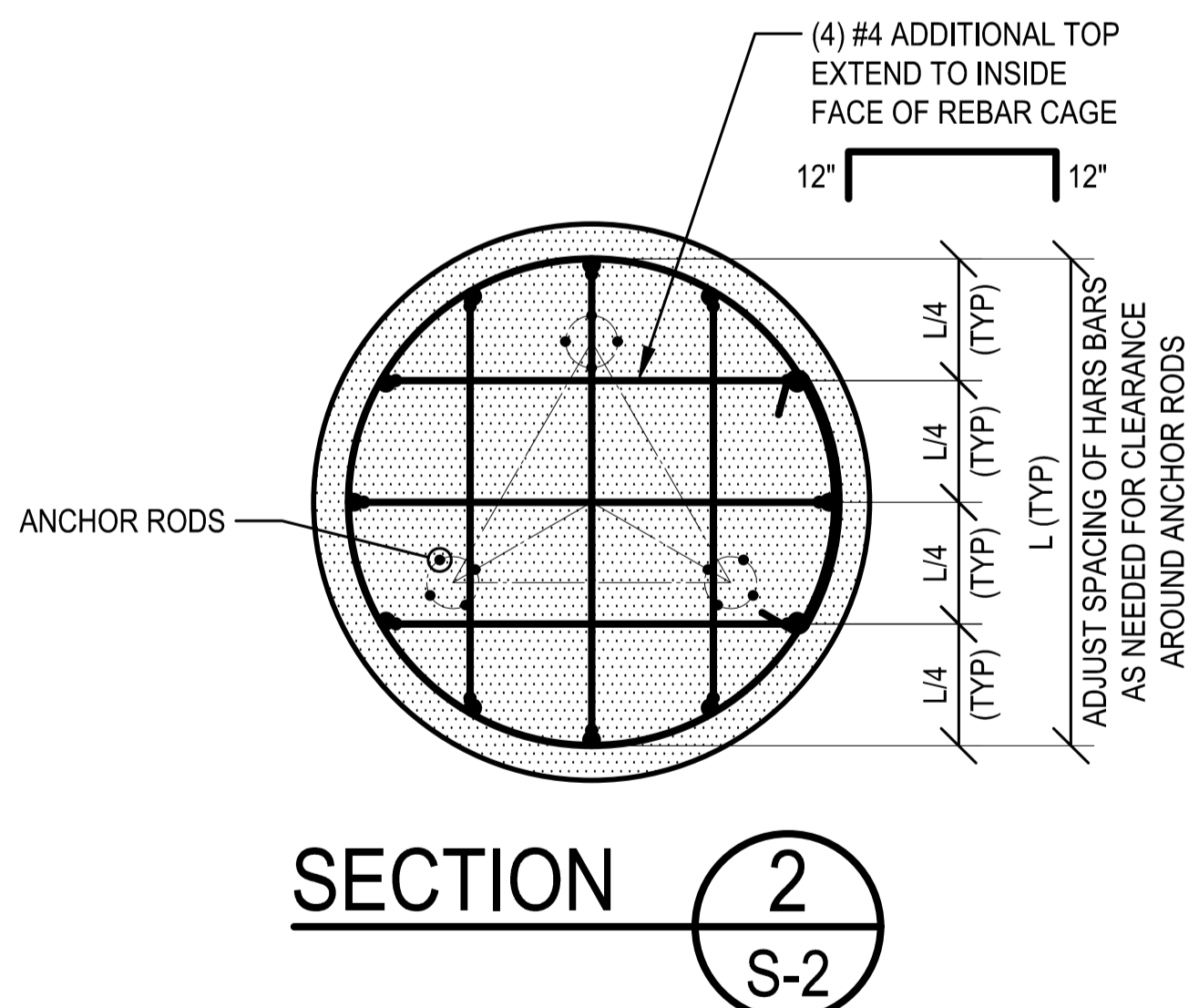
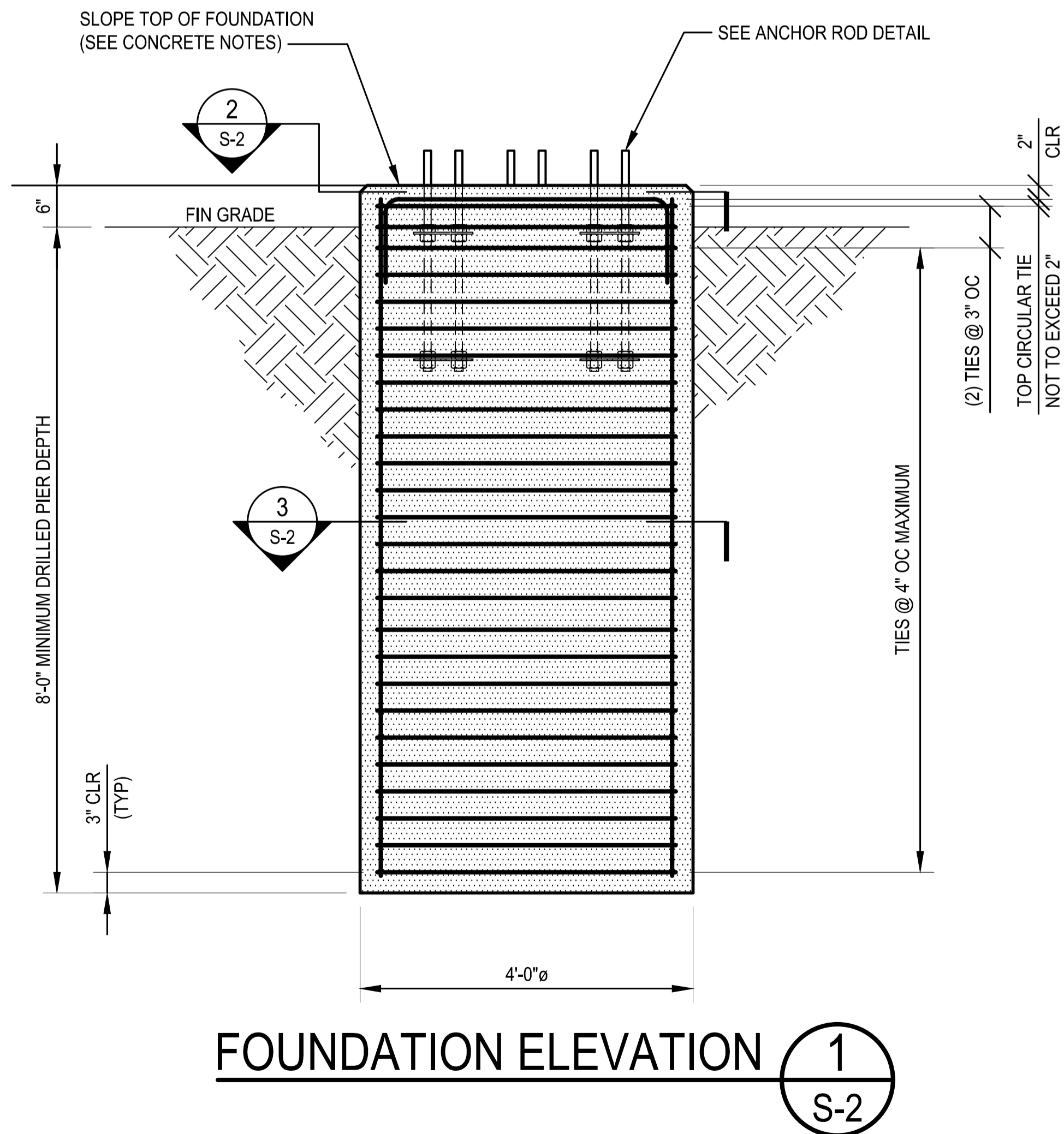


REV	DATE	DESCRIPTION

65024-0025.002.DWG



ANCHOR ROD						
ANCHOR ROD QTY/SIZE	TOTAL LENGTH	MIN EMBEDMENT	TOP PROJECTION	GALVANIZED LENGTH	BOTTOM PROJECTION	ADDITIONAL TURN OF NUT
(4) 5/8"ø	3'-5"	2'-11"	4"	12"	2"	1/3



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 40' SELF SUPPORT TOWER

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 CHECKED BY: MTB
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DRILLED PIER FOUNDATION

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REV	DATE	DESCRIPTION

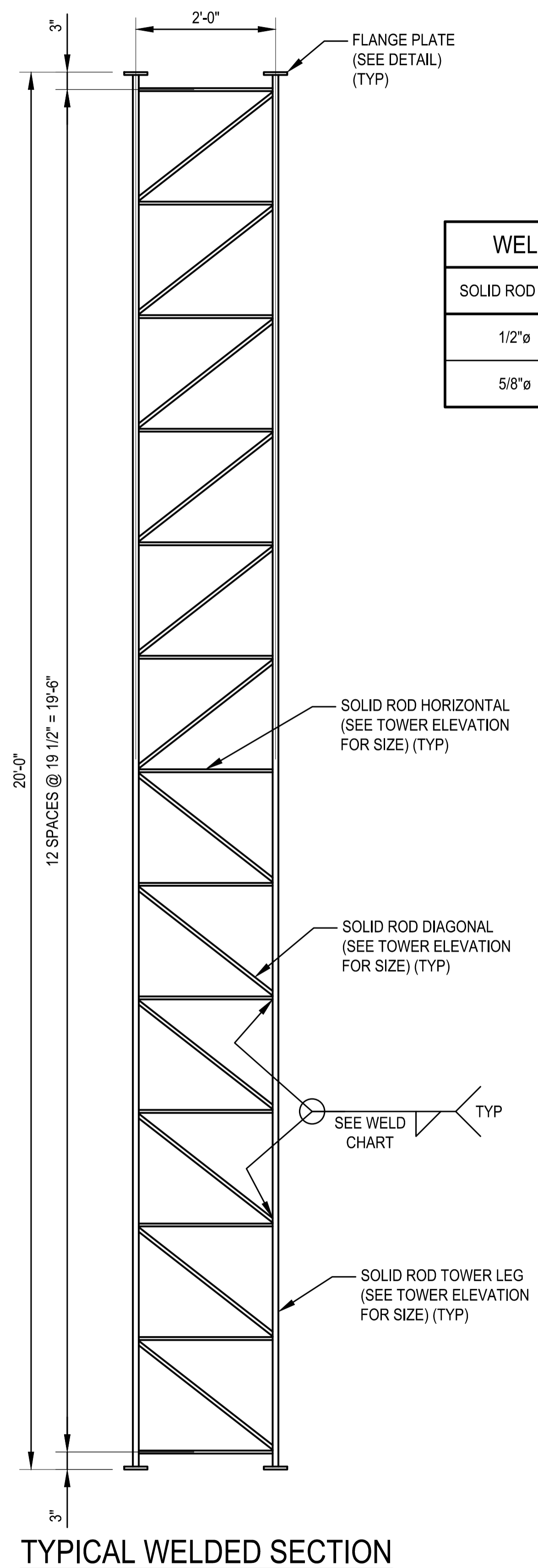
65024-0025.002.DWG

BAYVIEW RESERVIOR
 LEXINGTON HILLS, CALIFORNIA
 40' SELF SUPPORT TOWER

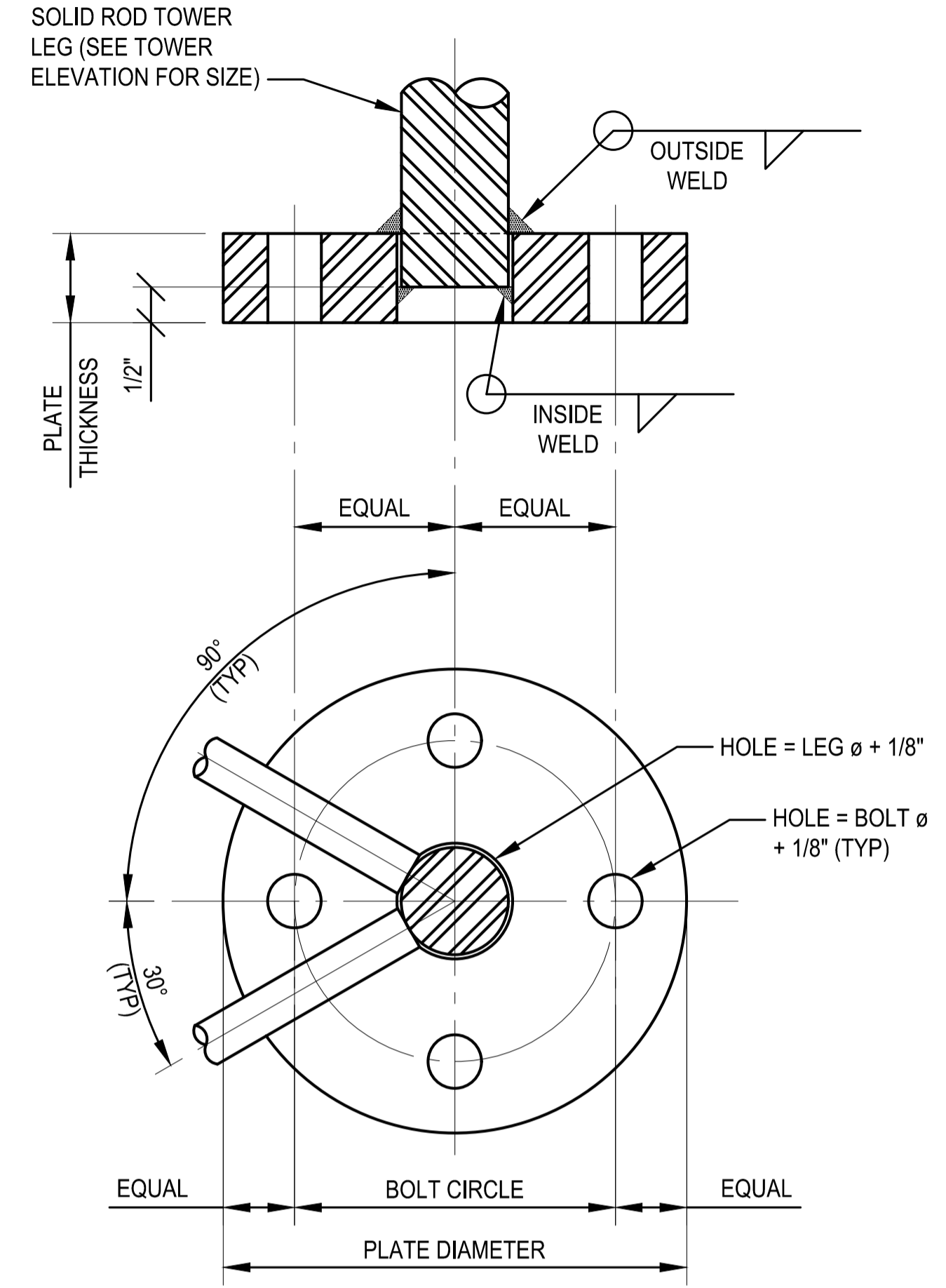
PROJECT No:	65024-0025.002.8200
DRAWN BY:	TAN
DESIGNED BY:	SMS
CHECKED BY:	MTB
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WELDED TOWER SECTION DETAILS

S-3



WELD CHART	
SOLID ROD SIZE	WELD SIZE
1/2"Ø	3/16"
5/8"Ø	1/4"



FLANGE DETAIL
 (4) BOLT, SEE CHART

FLANGE PLATE CHART					
ELEVATION	PLATE SIZE	BOLT CIRCLE	BOLT	OUTSIDE FILLET	INSIDE FILLET
40'	1" THK x 6 1/4"Ø	4 1/4"Ø	(4) 5/8"Ø	1/4"	1/4"
20'	1" THK x 6 1/4"Ø	4 1/4"Ø	(4) 5/8"Ø	1/4"	1/4"
0'	1" THK x 6 3/4"Ø	4 3/4"Ø	*	5/16"	1/4"

* - SEE ANCHOR ROD DETAIL



REV	DATE	DESCRIPTION

06/25/24

TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION				
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	CBC REFERENCE
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT	-	X	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	-
2. INSPECT ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	-
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 3.a.	-	-	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
4. VERIFY USE OF REQUIRED DESIGN MIX	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	-
6. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	-
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5	-
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	ACI 318: 26.11.1.2(b)	-

TABLE 1705.6 REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	-
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	-
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	-	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	-	-

TABLE 1705.8 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	-
3. FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	IN ACCORDANCE WITH SECTION 1705.3	

WELDING INSPECTION - CBC 2022 1705.2.1	QC	QA	REFERENCE STANDARD	
INSPECTION TASKS PRIOR TO WELDING				
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O	AISC 360, TABLE N5.4-1	
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	P	P		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P		
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O		
WELDER IDENTIFICATION SYSTEM ¹	O	O		
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) <ul style="list-style-type: none"> JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE) 	O	O		
FIT-UP OF CJP GROOVE WELDS OF HHS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) <ul style="list-style-type: none"> JOINT PREPARATIONS DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) 	P	O		
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O		
FIT-UP OF FILLET WELDS <ul style="list-style-type: none"> DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) 	O	O		
CHECK WELDING EQUIPMENT	O	-		
INSPECTION TASKS DURING WELDING				
CONTROL AND HANDLING OF WELDING CONSUMABLES <ul style="list-style-type: none"> PACKAGING EXPOSURE CONTROL 	O	O	AISC 360, TABLE N5.4-2	
NO WELDING OVER CRACKED TACK WELDS	O	O		
ENVIRONMENTAL CONDITIONS <ul style="list-style-type: none"> WIND SPEED WITHIN LIMITS PRECIPITATION AND TEMPERATURE 	O	O		
WPS FOLLOWED <ul style="list-style-type: none"> SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) PROPER POSITION (F, V, H, OH) 	O	O		
WELDING TECHNIQUES <ul style="list-style-type: none"> INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS 	O	O		
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P		
INSPECTION TASKS AFTER WELDING				
WELDS CLEANED	O	O		
SIZE, LENGTH AND LOCATION OF WELDS	P	P		
WELDS MEET VISUAL ACCEPTANCE CRITERIA <ul style="list-style-type: none"> CRACK PROHIBITION WELD/BASE-METAL FUSION CRATER CROSS SECTION WELD PROFILES WELD SIZE UNDERCUT POROSITY 	P	P		
ARC STRIKES	P	P		
k-AREA ²	P	P		
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES ³	P	P		
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P		
REPAIR ACTIVITIES	P	P		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P		
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	P	P		
¹ THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.				
² WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 IN. (75 mm) OF THE WELD.				
³ AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLES FOR CRACKS.				

BOLTING INSPECTION - CBC 2022 1705.2.1	QC	QA	REFERENCE STANDARD
INSPECTION TASKS PRIOR TO BOLTING			
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	AISC 360, TABLE N5.6-1
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O	
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O	
CORRECT BOLTING PROCEDURES SELECTED FOR JOINT DETAIL	O	O	
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O	
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O	
INSPECTION TASKS DURING BOLTING			
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	O	O	AISC 360, TABLE N5.6-2
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O	
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O	
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O	
INSPECTION TASKS AFTER BOLTING			
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P	AISC 360, TABLE N5.6-3

QC - QUALITY CONTROL AS SPECIFIED IN THIS TABLE SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR
QA - QUALITY ASSURANCE AS SPECIFIED IN THIS TABLE SHALL BE PROVIDED BY THE AUTHORITY HAVING JURISDICTION, OWNER, OR ENGINEER OF RECORD
O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS
P - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER, OR BOLTED CONNECTION

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SPECIAL INSPECTION

S-4



REV	DATE	DESCRIPTION

06/25/24