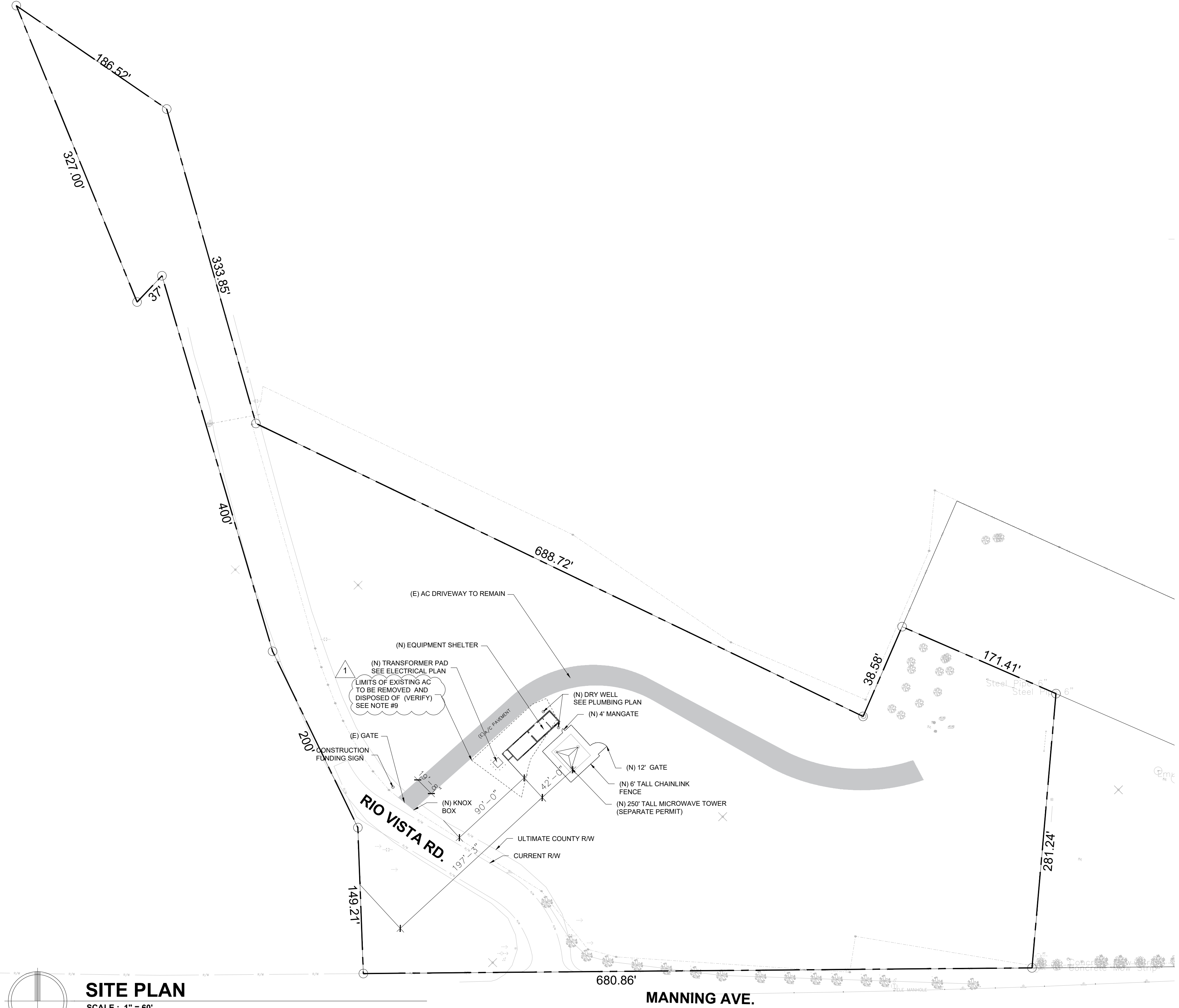
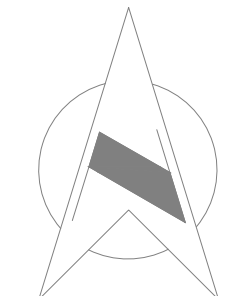


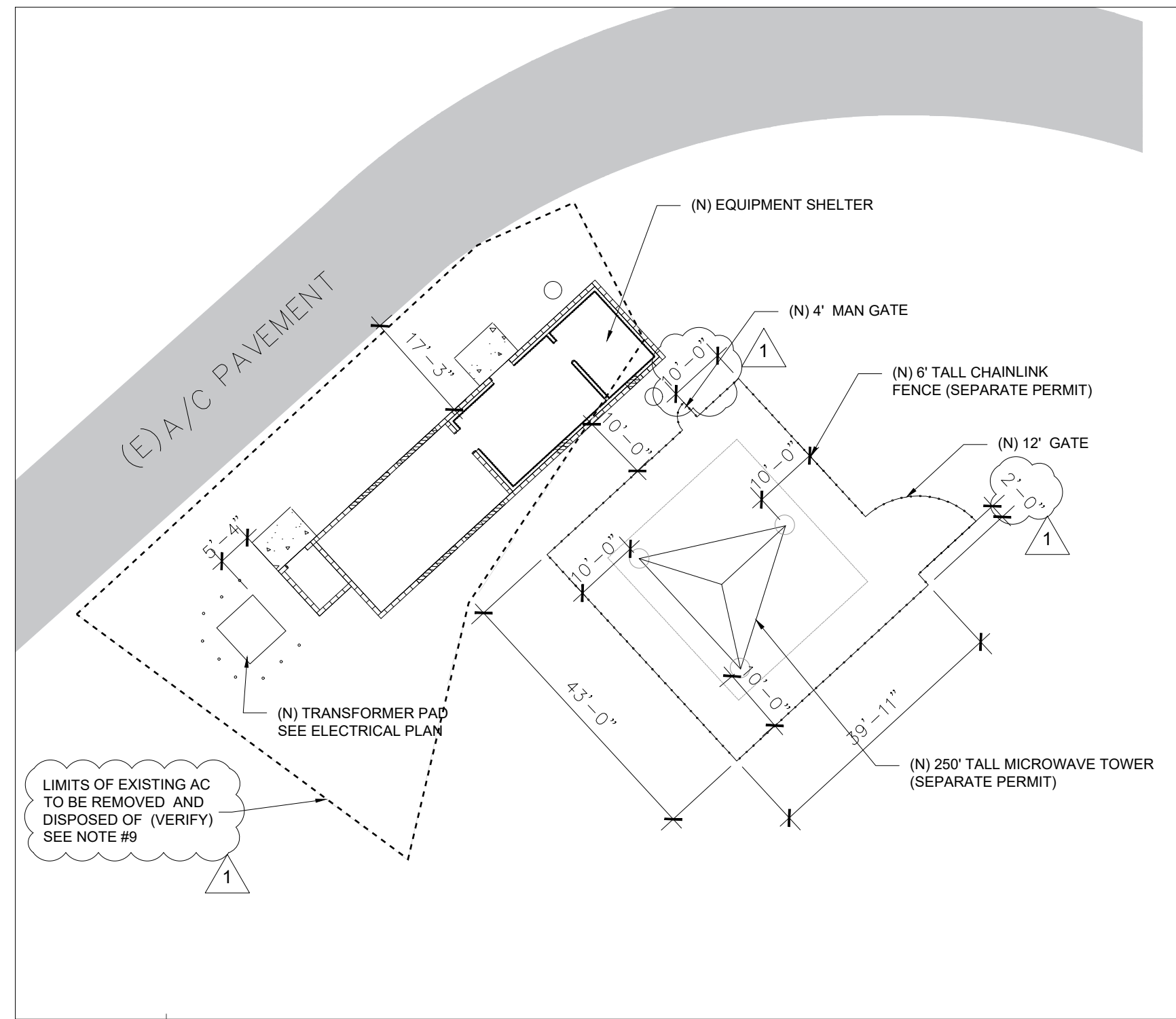
GENERAL NOTES :

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL DIMENSIONS, GRADES, AND ALL OTHER CONDITIONS, AND CORRELATE AT THE JOBSITE, AND REPORT ANY DISCREPANCIES TO THE DESIGNER FOR CLARIFICATION PRIOR TO COMMENCING ANY WORK.
2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORK AND THE COORDINATION OF ALL TRADES AND GOVERNING AGENCIES.
3. ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES:
 THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE.
 THE 2022 EDITION OF THE CALIFORNIA PLUMBING CODE.
 THE 2022 EDITION OF THE CALIFORNIA MECHANICAL CODE.
 THE 2022 EDITION OF THE CALIFORNIA ELECTRICAL CODE.
 THE 2022 EDITION OF THE CALIFORNIA ENERGY CODE.
 AND ALL ADOPTED ORDINANCES OF THE DISTRICT IN MENTION.
4. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS GOVERNS.
5. ALL MATERIALS, FIXTURES, EQUIPMENTS, AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH ALL GOVERNING REGULATIONS TO THE MANUFACTURER'S RECOMMENDED STANDARDS. PROVIDE ALL SUPPORTS, RACKING, REINFORCEMENT, OR OTHER PREPARATIONS REQUIRED TO RIGIDLY SECURE ALL ITEMS WORKING OR EVENT IMPOSED LOADS.
6. ALL OUTDOOR LIGHTING SHALL BE HOODED AND DIRECTED SO AS TO NOT SHINE TOWARDS ADJACENT PROPERTIES AND PUBLIC STREETS.
7. IN THE EVENT THAT CULTURAL RESOURCES ARE UNEARTHED DURING GROUND-DISTURBING ACTIVITIES, ALL WORK SHALL BE HALTED IN THE AREA OF THE FIND. AN ARCHEOLOGIST SHALL BE CALLED TO EVALUATE THE FINDINGS AND MAKE ANY NECESSARY MITIGATION RECOMMENDATIONS. IF HUMAN REMAINS ARE UNEARTHED DURING GROUND-DISTURBING ACTIVITIES, NO FURTHER DISTURBANCE IS TO OCCUR UNTIL THE FRESNO COUNTY SHERIFF-CORONER HAS MADE NECESSARY FINDINGS AS TO ORIGIN AND DISPOSITION. ALL NORMAL EVIDENCE PROCEDURES SHOULD BE FOLLOWED BY PHOTOS, REPORTS, VIDEO, ETC. IF SUCH REMAINS ARE DETERMINED TO BE NATIVE AMERICAN, THE SHERIFF-CORONER MUST NOTIFY THE NATIVE AMERICAN COMMISSION WITHIN 24 HOURS.
8. AN ENCROACHMENT PERMIT FROM ROAD MAINTENANCE AND OPERATIONS IS REQUIRED FOR ANY WORK PERFORMED WITHIN THE COUNTY ROAD RIGHT-OF-WAY.
9. REMOVE AND DISPOSE OF APPROXIMATELY 420 SQYD OF EXISTING ASPHALT CONCRETE



SITE PLAN

SCALE : 1" = 60'

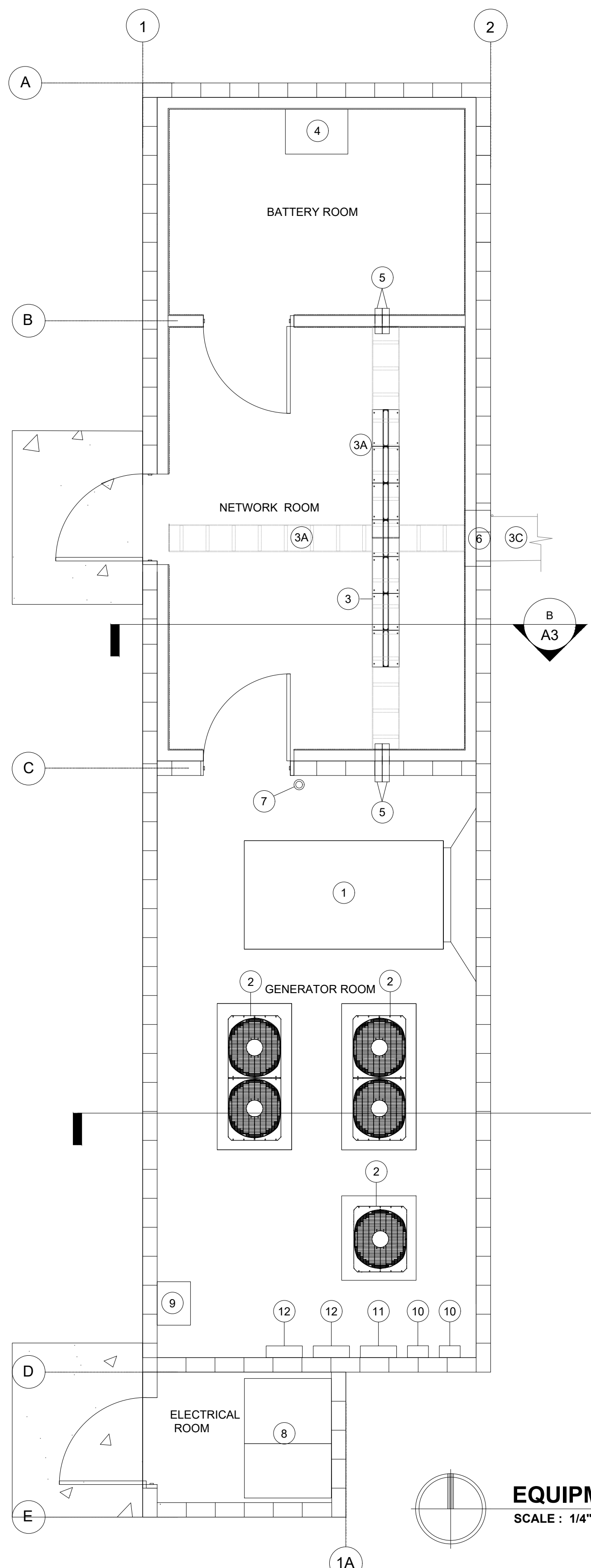


ENLARGED PARTIAL SITE PLAN

SCALE : 1" = 20'

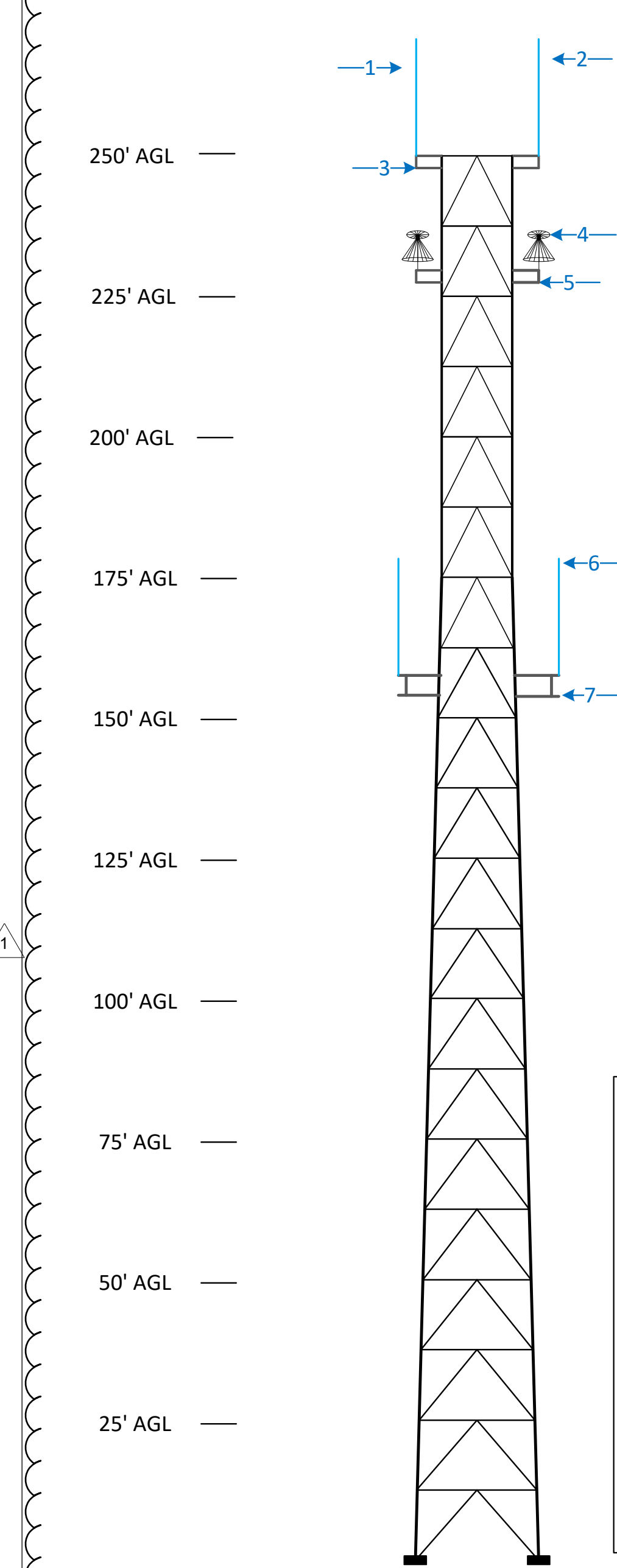
1 7-11-24

DESIGNED: CZ	DATE: 4-15-23	RECORD DRAWING	SCALE		PROJECT	
DRAWN: CZ	DATE: 4-15-23	RESIDENT ENGINEER			DEPARTMENT OF INTERNAL SERVICES	
CHECKED: JH	DATE: 5-2-23		SUPERVISING ENGINEER		REEDLEY RADIO TOWER EQUIPMENT SHELTER	
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.						SITE PLAN ADDENDUM #3 DRAWING NO. 11328 SHEET NO. A1 TOTAL 35

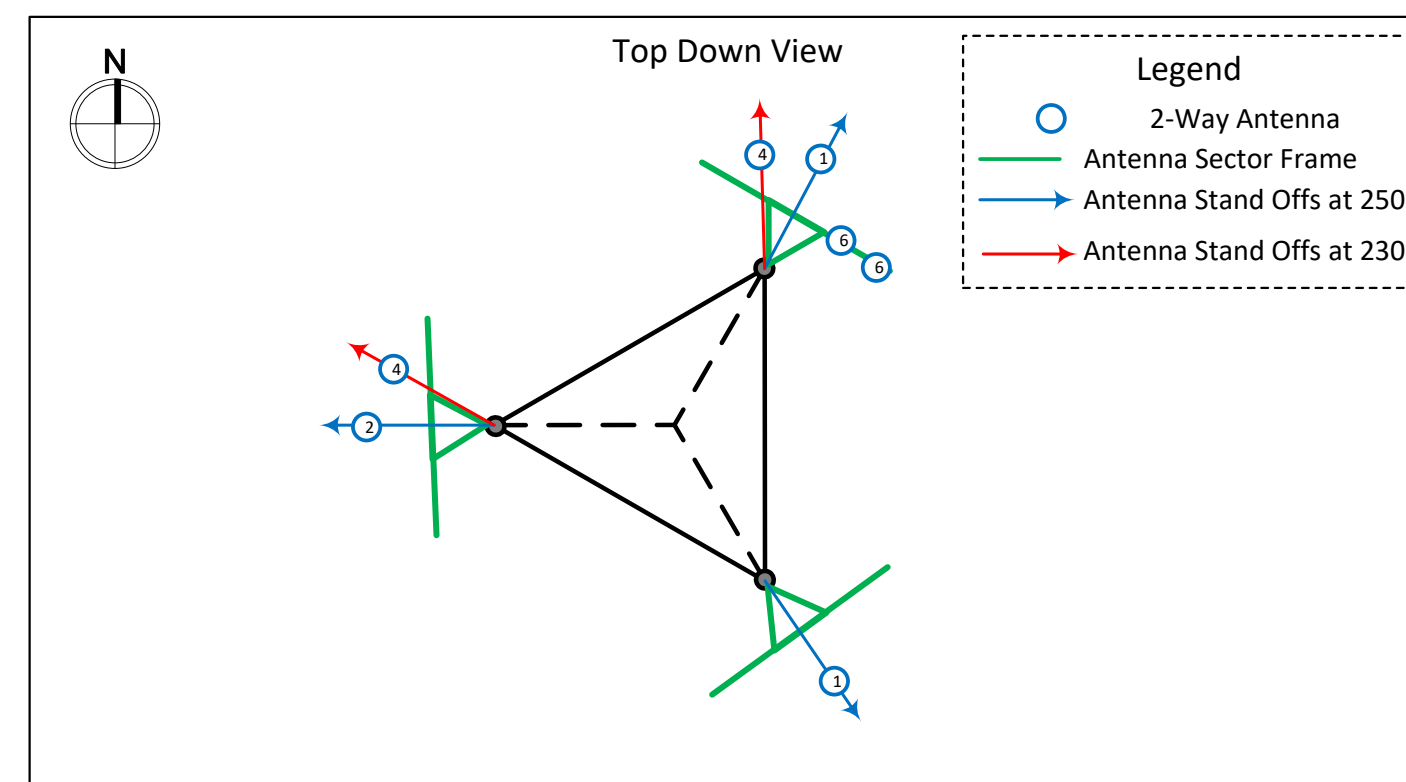


EQUIPMENT LIST			
EQUIPMENT NO.	EQUIPMENT NAME	QTY	REMARKS
1	Emergency Generator and accessories	1	Owner Supplied ; to be installed by Contractor ; See Generator Cut sheet under Supplemental Information
2	Outdoor Units	3	See Mechanical Plan- Sheet M4-0
3	Cable Trays/Runway and assembly hardware	6	UL Listed ; 19" wide x 9'-8-1/2" high to comply to TELCO-Style standards See Specifications
3A	Equipment Racks and assembly hardware	7	UL Listed: Two(2) Top Angles - 19" wide x 7' high High Strength, Lightweight Aluminum Construction ; Clear Finish Grounding with built-in attachment point for a ground (earthing) connection See Specifications Integrated
3B	Ice Bridge Kits or Waveguide Bridge kits	3 (verify)	13'-4" H x 24"H x 10'L Buriable 2-Post Waveguide Bridge Kit
4	Battery Plant	1	Manufacturer : C&D Technologies MS ENDUR II or owner approved equal
5	Fire-Rated Pathway	4	Manufacturer : EZ-Path Series 44+ Fire-rated Pathway EXP44s2 or Owner approved equal See Specifications
6	20 Port Entrance Panel and accessories	1	28.8"H x 31"L with 4" entry diameter to be installed with at least (4) Firestop pillows and Firestop Foam to help create a fire, smoke and moisture barrier around cable and mixed penetrations
7	Portable Fire Extinguisher 3A40BC	1	
8	Utility Meter Main	1	See Electrical Plans and Specifications
9	Automatic Transfer Switch	1	See Electrical Plans and Specifications
10	Tower Strobe Controllers		See Electrical Plans and Specifications
11	Panel		See Electrical Plans and Specifications
12	IDU Panels		See Electrical Plans and Specifications

Notes :
 All equipment in this list will be furnished and installed by the contractor except for Equipment #1
 Contractor to submit Product Data for each equipment; See Specifications
 See Floor Plan, Mechanical Plan and Electrical Plan for equipment not shown in this Sheet



Notes:
 This will be a new 250', three-legged, self supported tower. The tower will require x3 three foot stand offs on each leg at 250', x2 three foot stand offs at 230', and x3 ten foot, high capacity sector frames on each tower leg. The tower will require an 18" cable tray to top of tower. Tower will also require a climbing ladder with safety arrestor system. A lightning rod will need to be installed at the top of the tower. Also, a Vanguard FTS 370D marker light system will be installed to be in compliance with FAA Advisory Circular AC70/7460. The tower will also need 7 runs of 7/8" coaxial cable (3 runs to 250', 2 runs to 230', and 2 runs to 160')



Tower Location: 17626 Manning Avenue, Reedley, CA. 93654
 ASR: xxx | Site Elevation 333' ASL | Tower Height 250'

Antennas and Appurtenances								
Item #	Type	Manufacturer	Model	Quantity	Centerline	Azimuth	Slope	Notes
1	UHF Antenna	Telewave Inc.	ANT450F10	1	250'	-	-	Fiberglass Collinear Omnidirectional 440-470 MHz Primary Receive
2	VHF Antenna	Telewave Inc.	ANT150F6-4	2	250'	-	-	Fiberglass Collinear Omnidirectional 156-164 MHz Primary Receive (2 antennas at 250', on two tower legs)
3	Antenna Standoff	Commscope	S30001	3	230'	-	-	3' Antenna Standoff (stand off on all three tower legs)
4	VHF/UHF Antenna	Telewave Inc.	ANT280S	2	230'	-	-	Aluminum Discone Omnidirectional 118MHz-3GHz Primary Receive
5	Antenna Standoff	Commscope	S30001	2	230'	-	-	3' Antenna Standoff (stand off on two tower legs)
6	VHF Antenna	Telewave Inc.	ANT150F6-4	2	160'	-	-	Fiberglass Collinear Omnidirectional 156-164 MHz Primary Receive (facing Reedley)
7	Antenna Sectors	Commscope	SFG23HDX-10-4-120	3	160'	-	-	10' Antenna Sectors (one on each tower leg)

DESIGNED: CZ		DATE: 4-15-23	RECORD DRAWING		SCALE
DRAWN: CZ		4-15-23	RESIDENT ENGINEER	DATE	HORIZ 0 10' 20'
CHECKED: JH		5-2-23			VERT 0 1' 2'

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

HORIZ 0 10' 20'
 VERT 0 1' 2'

Supervising Engineer Signature
 SUPERVISING ENGINEER DATE: 7/16/2024

PROJECT: DEPARTMENT OF INTERNAL SERVICES
 REEDLEY RADIO TOWER EQUIPMENT SHELTER

REGISTERED PROFESSIONAL ENGINEER
 CIVIL STATE OF CALIFORNIA
 No. C80424

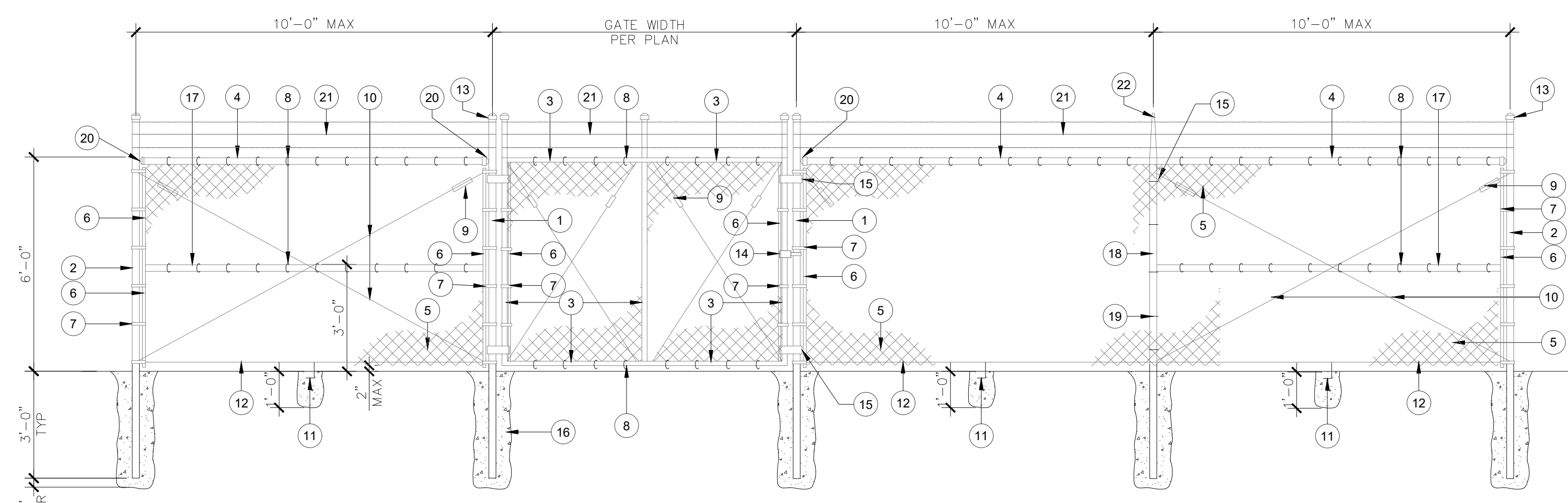
PROJECT: DEPARTMENT OF INTERNAL SERVICES
 REEDLEY RADIO TOWER EQUIPMENT SHELTER

EQUIPMENT PLAN
 ADDENDUM #3

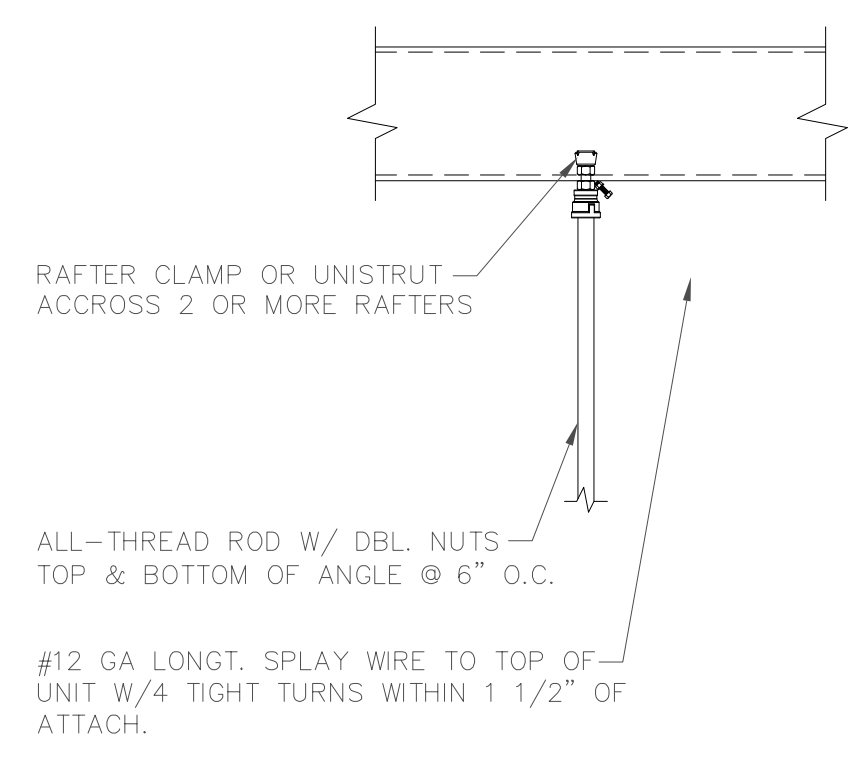
DRAWING NO. 11328 SHEET NO. A2.1 TOTAL 35

TYPICAL FENCE & GATE KEYNOTES

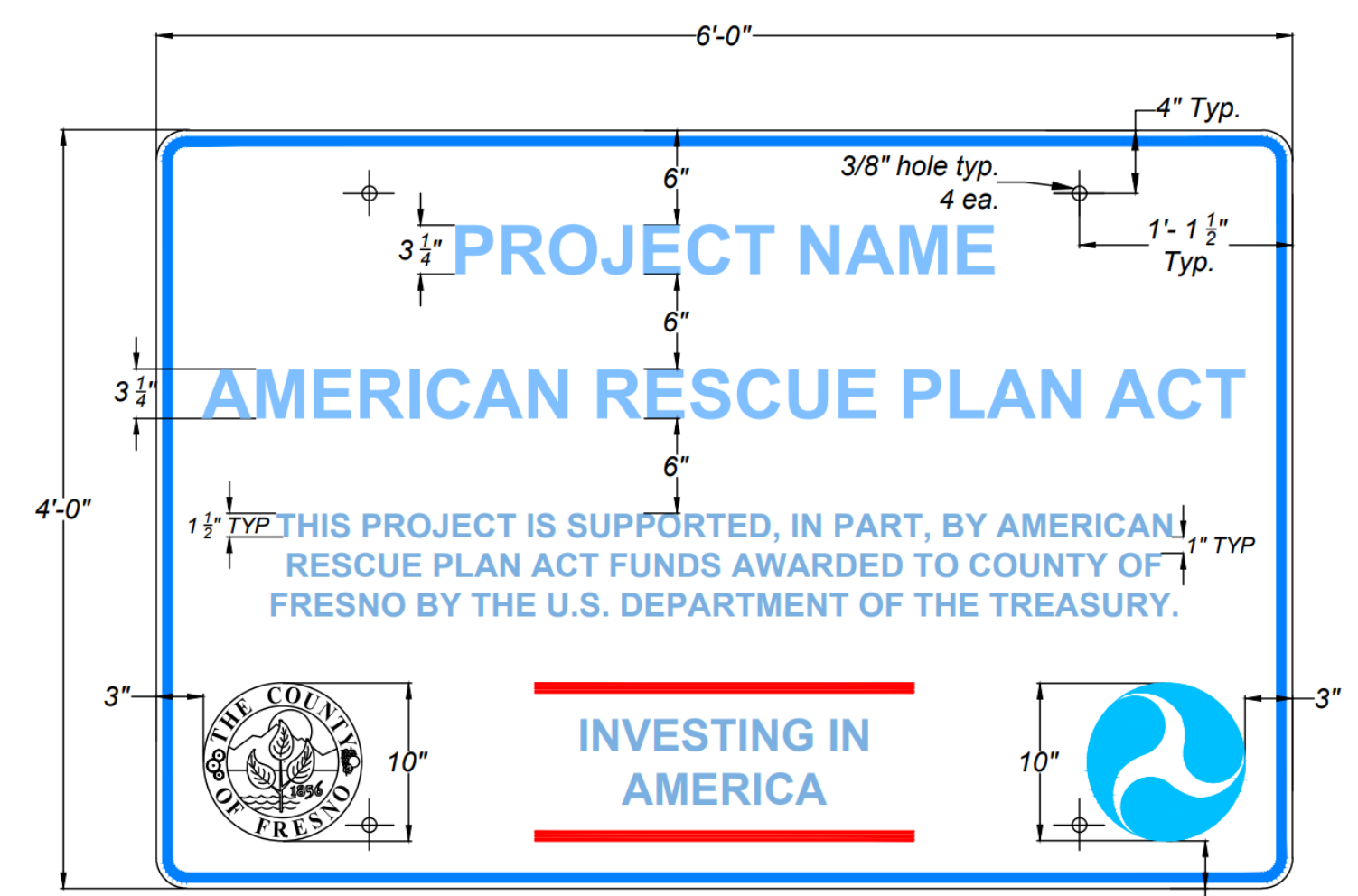
- ① 4" O.D. GALVANIZED STEEL GATE POST (9.1 lb/ft)
- ② 2-7/8" O.D. GALVANIZED STEEL END OR CORNER POST (5.79 lb/ft)
- ③ 2" O.D. GALVANIZED STEEL GATE FRAME (2.72 lb/ft)
- ④ 1-5/8" O.D. GALVANIZED STEEL HORIZONTAL RAIL (2.27 lb/ft)
- ⑤ 2"x2" MESH x 9 GAUGE GALVANIZED FENCE FABRIC WITH KNUCKLED TOP AND BOTTOM SELVAGE. FENCE FABRIC TO BE GALVANIZED BEFORE WEAVING (GBW)
- ⑥ 1/4"x3/4" GALVANIZED STEEL STRETCHER BAR
- ⑦ 3/8" THICK GALVANIZED STEEL STRETCHER BAR TENSION BAND, MIN. OF 6 TENSION BANDS
- ⑧ 9 GAUGE (0.148" DIA.) GALVANIZED STEEL TIE WIRES OR HOG RINGS AT 15" MAX. SPACING. MIN. 8 TIE WIRES PER EACH 10" HORIZONTAL RAIL
- ⑨ GALVANIZED ADJUSTABLE TURNBUCKLE FOR 3/8" DIA. TRUSS ROD
- ⑩ 3/8" DIA. GALVANIZED STEEL ADJUSTABLE TRUSS ROD. TRUSS RODS REQUIRED FOR ALL GATE POST PANELS AND END OR CORNER POST PANELS
- ⑪ 3/8"x6" GALVANIZED HOOK BOLT WITH NUT EMBEDDED INTO THE 8"Ø CONCRETE MIDWAY BETWEEN POSTS
- ⑫ 7 GAUGE (0.177" DIA.) GALVANIZED STEEL TENSION WIRE
- ⑬ RAINPROOF CAP (TYP.)
- ⑭ GALVANIZED LOCKING HASP
- ⑮ HEAVY DUTY MALLEABLE 360° IRON GATE HINGE, TYP
- ⑯ 12"Ø CONCRETE POST FOOTING (TYP.)
- ⑰ 1-5/8" O.D. GALVANIZED STEEL HORIZONTAL RAIL (2.27 lb/ft) AT END OF RUN ONLY
- ⑱ 2-3/8" O.D. GALVANIZED STEEL LINE POST (3.65 lb/ft)
- ⑲ 6 GAUGE (0.192" DIA.) GALVANIZED STEEL POST CLIPS AT 14" O.C. MAXIMUM SPACING. MINIMUM 5 POST CLIPS FOR EACH 6' POST.
- ⑳ GALVANIZED RAIL ENDS (TYP.)
- ㉑ PROVIDE THREE(3) LINES OF 14 GAUGE, CLASS 3, 2-POINT BARBED WIRE COMPLYING WITH ASTM A121
- ㉒ PROVIDE THREE(3) STRAND OUTRIGGER ARM ON TOP OF ALL FENCING AND GATES OUTRIGGER ARM SHALL BE ANGLED TO THE OUTSIDE OF THE FENCED AREA. SEE DETAIL B1/A5



B CHAIN LINK FENCE AND GATES
A5 SCALE: N.T.S.

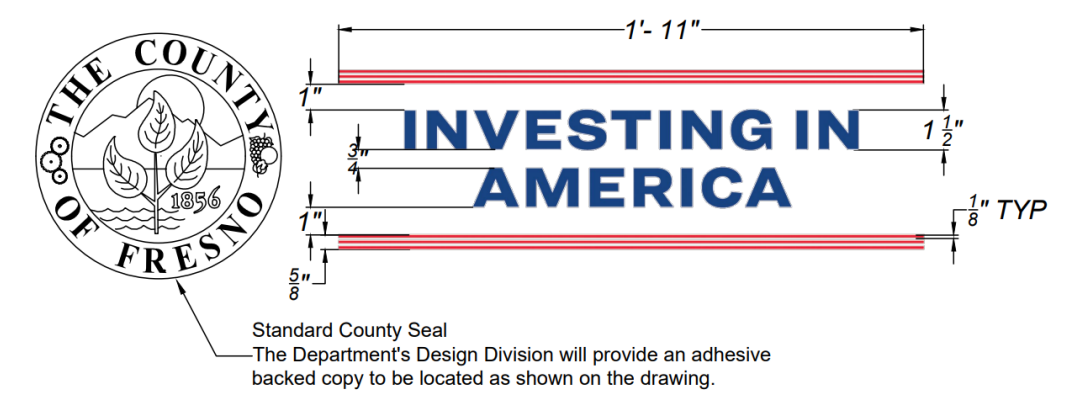


A TYP. HANGING UNIT
A5 SCALE: N.T.S.

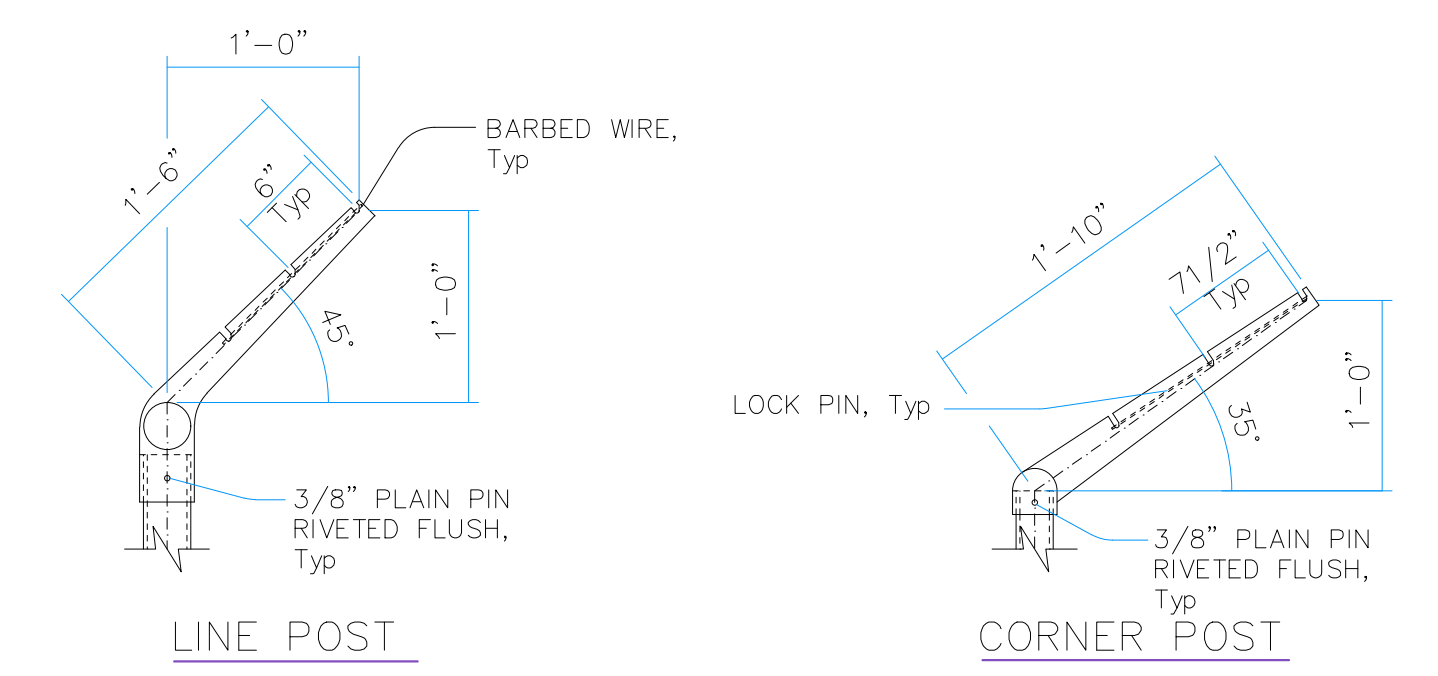


- NOTES:
1. THE LEGEND OF SIGN SHALL BE BLACK ON A WHITE BACKGROUND (NON-REFLECTIVE)
 2. THE BORDER OF THE SIGN SHALL BE BLUE (NON-REFLECTIVE)
 3. PROJECT FUNDING SIGNS SHALL CONFORM TO SECTION 82 OF THE 2015 CALTRANS STANDARD SPECIFICATIONS

C CONSTRUCTION PROJECT FUNDING SIGN
A5 SCALE: N.T.S.



D PIPE THROUGH ROOF
A5 SCALE: N.T.S.

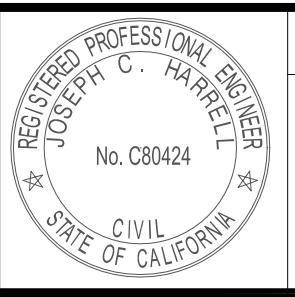


B1 BARBED WIRE POST TOP
A5 SCALE: 1" = 1'-0"

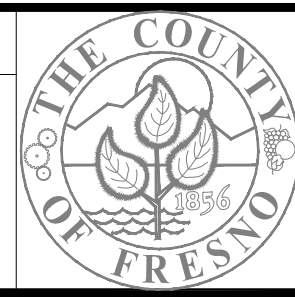
DESIGNED:	DATE	RECORD DRAWING	SCALE
CZ	4-15-23	RESIDENT ENGINEER	HORIZ 0 10' 20'
CZ	4-15-23		VERT 0 1' 2'
JH	5-2-23		

7/16/2024
DATE

SUPERVISING ENGINEER



PROJECT
DEPARTMENT OF INTERNAL SERVICES
REEDLEY RADIO TOWER AND EQUIPMENT SHELTER



DETAILS
ADDENDUM #3
DRAWING NO. 11328 SHEET NO. A5 TOTAL 35

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

BASIS OF DESIGN:

THE FOLLOWING APPLIED LOADS WERE USED IN THE DESIGN OF THE PROPOSED EQUIPMENT SHELTER :

ROOF LIVE LOAD = 20 PSF BASIC
 ROOF DEAD LOADS = 10 PSF

WIND LOAD: EXPOSURE C
 BASIC WIND SPEED = 94 MPH
 WIND PRESSURE $q_h = 16.34$ PSF
 ENVELOPE PROCEDURE

SEISMIC LOAD SITE CLASS : D
 SEISMIC DESIGN CATEGORY : D
 $I_e = 1.00$
 $R = 5.0$
 $SDS = .61$
 $SD1 = .39$
 $C_s = SDS = .122$
 (R/I)

PROPOSED MICROWAVE TOWER DESIGN CRITERIA:

WIND LOAD: EXPOSURE C
 BASIC WIND SPEED = 94 MPH
 RISK CATEGORY = II

SEISMIC LOAD REFER TO GEOTECHNICAL REPORT

GENERAL STRUCTURAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH 2022 CALIFORNIA BUILDING CODE
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS OR SPECIFICATIONS.
- WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT.
- TEMPORARY BRACING OR SHORING SHALL NOT BE REMOVED UNTIL MATERIALS REACH THEIR DESIGN STRENGTH.
- OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN SLABS, DECKS, BEAMS, JOISTS, COLUMNS, WALLS, ETC. UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS POCKETS ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAME FLOOR OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE SUCH LOADS WOULD EXCEED DESIGN LIVE LOAD.
- CONTRACTOR SHALL READ AND FOLLOW ALL REFERENCED ICC REPORTS FOR INSTALLATION OF ITEMS SHOWN. ALTERNATIVE METHODS OF CONSTRUCTION MAY BE SUBMITTED FOR APPROVAL TO THE ENGINEER WITH APPLICABLE ICC REPORTS.
- IT IS THE INTENT OF THESE PLANS TO PROVIDE DETAILS OF CONSTRUCTION NECESSARY TO GUIDE THE GENERAL CONTRACTOR WITH STRUCTURAL ASPECTS OF THE PROJECT ONLY.
- DO NOT SCALE STRUCTURAL DRAWINGS. IF DIMENSIONS OR DETAILS ARE NOT CLEAR, OR IF DISCREPANCIES EXIST ON THE DRAWINGS CONTACT THE ARCHITECT/ENGINEER.
- SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZES OF PIPES, CONDUITS, FLOOR DRAINS, VENTS, DUCTS, DRAIN LEADERS AND OTHER SIMILAR OPENINGS NOT INDICATED ON THESE STRUCTURAL DRAWINGS.
- SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR EMBEDMENT OF BOLTS, ANCHORS AND OTHER MISCELLANEOUS EMBEDDED ITEMS NOT SHOWN ON THESE STRUCTURAL DRAWINGS.
- SITE OBSERVATIONS OF THE PROJECT ARE NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- ANY SUPPORT SERVICES PERFORMED BY THIS ENGINEER DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THIS OFFICE WHETHER OF MATERIAL OR WORK, AND WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION, ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS BUT DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- THE PROJECT SPECIFICATIONS AND SOILS REPORT ARE PART OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ADHERENCE TO ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.

MASONRY NOTES

(CBC CHAPTER 21)

1. STRENGTH SCHEDULE:

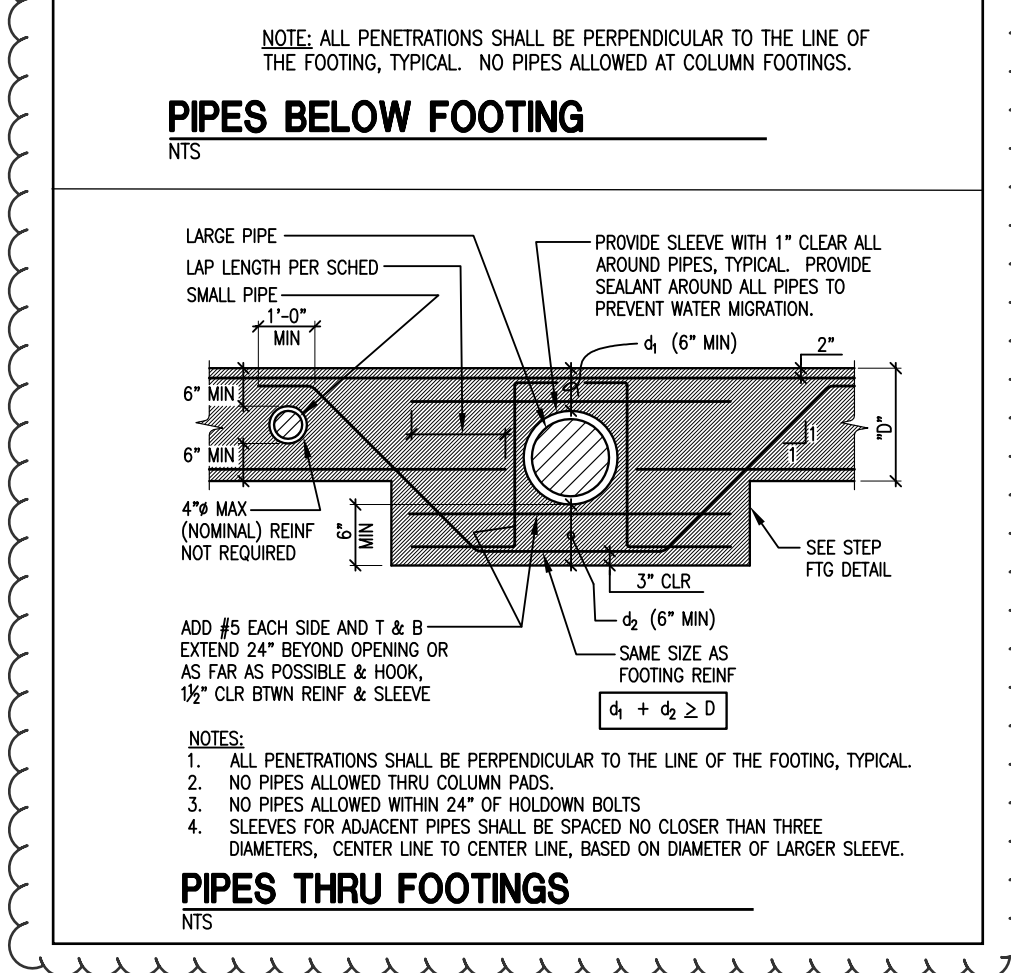
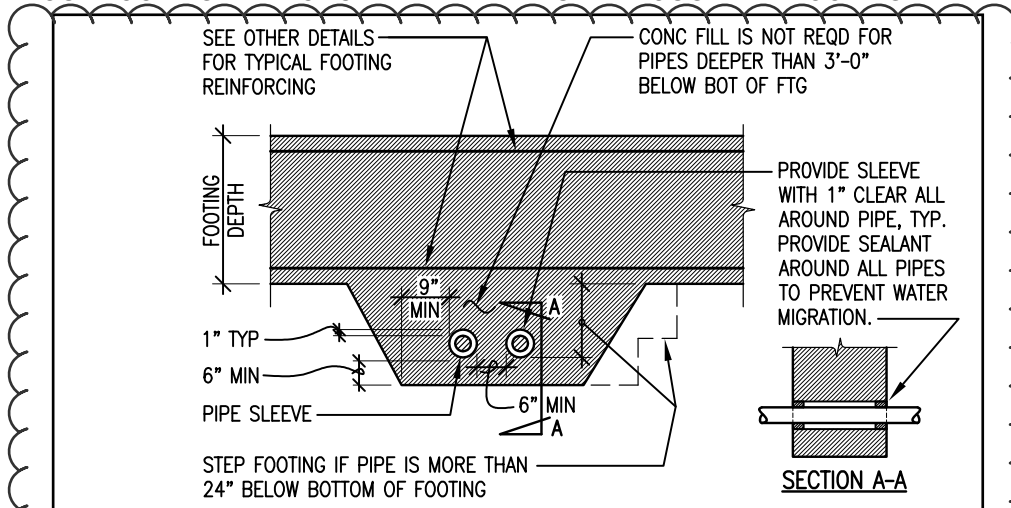
USE	SPECIFIED COMPRESSIVE STRENGTH OF MASONRY F'm (psi)	COMPRESSIVE STRENGTH MASONRY UNITS (psi)	COMPRESSIVE STRENGTH OF GROUT (PSI)	MORTAR TYPE / 28 DAY STRENGTH (PSI)	REMARKS
WALL	1500	1900	2000	TYPE 'S' / 1500	

- CONCRETE BLOCK UNITS SHALL CONFORM TO ASTM C90 GRADE N, TYPE I NORMAL WEIGHT UNITS.
- MORTAR SHALL BE AS PER ASTM C270.
- GROUT SHALL CONFORM TO ASTM C476 w/ SIKA GROUT AID, 8"-10" SLUMP.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- BEFORE BLOCK IS PLACED ON CONCRETE, THOROUGHLY CLEAN CONCRETE OF ALL LAITANCE AND ALL LOOSE MATERIAL. ROUGHEN AS IN A CONCRETE CONSTRUCTED JOINT.
- ALL CELLS SHALL BE GROUTED SOLID.
- VERTICAL REINFORCING SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.
- WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT 1" TO 1/2" BELOW THE TOP OF THE UPPERMOST UNIT.
- PLACE ALL HORIZONTAL BARS ON BOND BEAM UNITS.
- UNITS SHALL BE LAID A MAXIMUM OF 2 FEET BEFORE GROUTING. GROUTING SHALL FOLLOW EACH 2 FEET OF CONSTRUCTION LAID AND SHALL BE VIBRATED BY MECHANICAL EQUIPMENT DURING PLACING AND RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED, BUT BEFORE WORKABILITY IS LOST.
- CEMENT SHALL CONFORM TO ASTM C-150, TYPE II
- LIME SHALL CONFORM TO ASTM C-207
- AGGREGATES FOR MORTAR: AGGREGATES FOR MORTAR SHALL BE WASHED SAND CONFORMING TO ASTM C-144, WITH AT LEAST 5 PERCENT PASSING THE NO. 200 SIEVE.
- FINE AGGREGATES FOR GROUT: FINE AGGREGATES FOR GROUT SHALL CONFORM TO ASTM C-404, WITH THE GRADING REQUIREMENTS FOR SIZE NO. 1
- COARSE AGGREGATES FOR GROUT: COARSE AGGREGATES FOR GROUT SHALL CONFORM TO ASTM C-404 WITH THE GRADING REQUIREMENTS FOR SIZE NO. 8, EXCEPT 100 PERCENT SHALL PASS THE 3/8" SIEVE AND NOT MORE THAN 5 PERCENT SHALL PASS THE NO. 8 SIEVE.
- CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT, TYPE "N" AS SET FORTH IN A.S.T.M. C90. THE FOLLOWING MINIMUM STRENGTH FOR TYPE 1, MOISTURE CONTROLLED UNITS SHALL BE:
 - 8" CMU $f_m = 2000$ PSI
 - 10" CMU $f_m = 2000$ PSI
 - 12" CMU $f_m = 2000$ PSI
 - 16" CMU $f_m = 2000$ PSI
- SEE ARCHITECTURAL DRAWINGS FOR COLOR & SURFACE TREATMENT OF EXPOSED CMU UNITS.
- MASONRY, EXCEPT MASONRY VENEER, SHALL BE CONSTRUCTED WITHIN THE TOLERANCES SPECIFIED IN A.C.I. 530.1/A.S.C.E. 6/T.M.S. 602.
- MASONRY UNITS SHALL BE LAID IN RUNNING BOND.
- MORTAR SHALL CONFORM TO A.S.T.M. C270 AND BE TYPE "S" WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 P.S.I. AT 28 DAYS WITH MORTAR PROPORTIONS PER A.S.T.M. C270 TABLE 1.
- GROUT SHALL CONFORM TO A.S.T.M. C476, AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.
- GROUT SHOULD BE PUDDLED OR TAMPED WITH A 5/8" ROD OR A 1"x2" STICK AS IT IS PLACED.
- ALL CELLS SHALL BE GROUTED SOLID BY LOW LIFT (4'-0" MAX.) OR HIGH-LIFT GROUTING METHOD. IF A HIGH-LIFT GROUTING METHOD IS USED IT MUST HAVE THE APPROVAL OF THE STRUCTURAL ENGINEER.
- GROUTING OF BEAMS OVER OPENINGS SHALL BE DONE IN CONTINUOUS OPERATION WITH A MINIMUM 12" SEAT AT EACH END UNLESS PLACED IN TOTAL WITH WALL GROUTING. ALL WALL OPENINGS SHALL BE SHORED FOR A MINIMUM OF 28 DAYS AFTER COMPLETION OF GROUTING, U.N.O.
- ALL REINFORCING SHALL CONFORM TO A.S.T.M. A615 AND SHALL BE GRADE 40 FOR #3 BAR, GRADE 60 FOR #4 BAR AND LARGER.
- ALL WELDING OF REINFORCING STEEL SHALL BE WITH LOW HYDROGEN ELECTRODES U.N.O. WELDING OF REINFORCING SHALL BE ALLOWED ONLY WHERE DETAILED ON DRAWINGS. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY SPECIFICATIONS A.W.S. D1.4. WELDING SHALL NOT BE DONE WITHIN TWO BAR DIAMETERS OF ANY BENT PORTION OF A BAR WHICH HAS BEEN BENT COLD. WELDING OF CROSSING BARS SHALL NOT BE PERMITTED FOR ASSEMBLY OF REINFORCEMENT UNLESS AUTHORIZED BY THE STRUCTURAL ENGINEER OF RECORD. A.S.T.M. A706 REINFORCING SHALL BE USED FOR ALL REINFORCING THAT IS BEING WELDED.
- VERTICAL REINFORCING SHALL BE CENTERED IN WALL, U.N.O., AND PLACED IN OPEN END UNITS BEFORE BLOCK WORK BEGINS. VERTICAL REINFORCING SHALL BE HELD IN POSITION AT TOP, BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS.
- HORIZONTAL REINFORCING SHALL BE LAID IN BOND BEAM UNITS AND SECURELY WIRED TO THE VERTICAL REINFORCING.
- DOWELS IN ALL FOUNDATIONS SHALL HAVE THE SAME LOCATION, SIZE, AND SPACING AS THE VERTICAL MASONRY REINFORCING.
- PROVIDE CLEANOUT OPENINGS FOR ALL WALLS AT THE BOTTOM OF EACH POUR IN ACCORDANCE WITH C.B.C. 2016 REQUIREMENTS.
- ANCHOR BOLTS MUST BE SET WITH TEMPLATES AND HELD IN PLACE PRIOR TO GROUTING. PROVIDE AT LEAST 1" OF GROUT BETWEEN THE HEAD OF THE ANCHOR BOLT AND THE INSIDE FACE OF MASONRY SHELL.

- ANCHOR BOLTS MUST BE SET WITH TEMPLATES AND HELD IN PLACE PRIOR TO GROUTING. PROVIDE AT LEAST 1" OF GROUT BETWEEN THE HEAD OF THE ANCHOR BOLT AND THE INSIDE FACE OF MASONRY SHELL.
- ALL ANCHOR BOLTS SHALL BE HEX-HEADED.
- PLACEMENT OF REINFORCEMENT REQUIREMENTS:
 - THE CLEAR DISTANCE BETWEEN PARALLEL BARS SHALL NOT BE LESS THAN THE NOMINAL DIAMETER OF THE BAR, NOR LESS THAN 1".
 - IN COLUMNS AND PILASTERS, THE CLEAR DISTANCE BETWEEN VERTICAL BARS SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL BAR DIAMETER, NOR LESS THAN 1 1/2".
 - REINFORCEMENT EMBEDDED IN GROUT SHALL HAVE A THICKNESS OF GROUT BETWEEN THE REINFORCEMENT AND MASONRY UNIT NOT LESS THAN 1/2".
- REINFORCING BARS SHALL HAVE A MASONRY COVER NOT LESS THAN THE FOLLOWING:
 - MASONRY FACE EXPOSED TO EARTH OR WEATHER: 2" FOR #6 & GREATER BARS, 1 1/2" FOR #5 & SMALLER BARS.
 - MASONRY NOT EXPOSED TO EARTH OR WEATHER: 1 1/2" FOR ALL BAR SIZES.

FOUNDATION NOTES:

- NOMINAL TOP OF FLOOR SLAB ELEVATION = DATUM 0'-0" UNLESS OTHERWISE NOTED.
- ALL FOOTINGS SHALL EXTEND TO FIRM BEARING IN UNDISTURBED SOIL OR ENGINEERED FILL.
- SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF NON-BEARING PARTITIONS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF EXTERIOR WALKWAYS.
- CONSTRUCTION JOINTS ARE TO BE PROVIDED AT INTERIOR NON-BEARING PARTITIONS TO BREAK FLOOR SLAB INTO WORKING AREAS WITH A MAXIMUM LENGTH TO WIDTH RATIO NOT EXCEEDING 2: 1 AND NOT LARGER THAN 1000 S.F. AREAS SHALL BE POURED IN AN ALTERNATE SEQUENCE.
- FOUNDATIONS FOR BUILDINGS SHALL BE STEPPED AS REQUIRED SO THAT BOTH TOP AND BOTTOM OF SUCH FOUNDATIONS ARE LEVEL.
- ALL REINFORCING STEEL, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS SHALL BE SECURELY POSITIONED IN THE FORMS PRIOR TO POURING OF CONCRETE.
- ALL CONCRETE AND MASONRY WALLS AND COLUMNS SHALL BE DOWELED INTO FOOTINGS WITH BARS OF THE SAME SIZE AND SPACING AS THE VERTICAL WALL BARS UNLESS OTHERWISE NOTED. SEE CONCRETE AND MASONRY NOTES FOR LAP REQUIREMENTS.
- SHORING AND BRACING: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING AND FORM WORK AS REQUIRED FOR THE CONSTRUCTION OF THE BUILDING. PROVIDE TEMPORARY BRACING AS REQUIRED TO HOLD THE VARIOUS ELEMENTS IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.
- EXCAVATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES AND FOR PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES.
- BACKFILL: DO NOT BACKFILL AROUND THE EXTERIOR PERIMETER WALL UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF THE INTERIOR FLOOR SYSTEMS. DO NOT BACKFILL UNTIL 7 DAYS MINIMUM AFTER COMPLETION OF THE FLOOR SLABS.
- FOUNDATION DESIGNS ARE BASED UPON SOILS REPORT #A26360.01, DATED SEPTEMBER 6, 2023 BY MOORE TWining ASSOCIATES INC. PARAMETERS ARE AS FOLLOWS:
 - MAXIMUM ALLOWABLE SOIL BEARING PRESSURE: DEAD LOAD PLUS LIVE LOAD = 2.5 KSF
 - PASSIVE RESISTANCE = 275.0 PCF
 - COEFFICIENT OF FRICTION = 0.30
- SEE DETAIL SHEET 1 AND SOILS REPORT FOR SOIL PREPARATION REQUIREMENTS.
- ALL CONTINUOUS FOOTING REINFORCEMENT SHALL RUN THROUGH PAD FOOTINGS



CONCRETE NOTES:

1. PROPERTIES** OF CONCRETE SHALL BE AS FOLLOWS:

USE	AGGREGATE SIZE	MAXIMUM 28 DAY COMP. STRENGTH (PSI)	MINIMUM WATER/CEMENT RATIO	MAXIMUM CEMENT SACK PER CY	MINIMUM MAX. SLUMP
ALL	1"	3000	0.45	6.5	4"

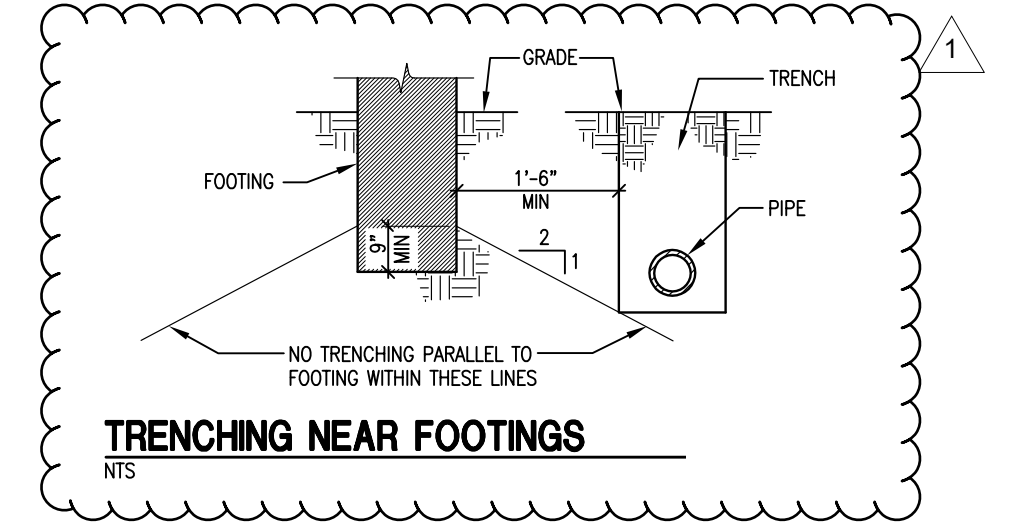
- ** SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
- CONCRETE SPECIFIED IN THESE DRAWINGS SHALL BE CONSIDERED AS STRUCTURAL CONCRETE.
 - THE DIMENSIONS SHOWN FOR LOCATION OF REINFORCING STEEL ARE TO FACE OF BAR AND DENOTE CLEAR COVERAGE. UNLESS SPECIFICALLY NOTED, CONCRETE COVERAGE SHALL BE AS FOLLOWS:

LOCATION	CONCRETE DEPOSITED DIRECTLY AGAINST THE GROUND (EXCEPT SLABS) -----	CONCRETE EXPOSED TO THE GROUND BUT PLACED IN FORMS -----	SLABS ON GRADE (CLEARANCE TO TOP SURFACE) -----	COVER
				3"
				2"

 SEE PLANS & DETAILS
 - REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.
 - CONTINUOUS REINFORCEMENT SHALL BE SPLICED BY LAPPING THE REINFORCEMENT WITH THE MINIMUM LENGTH SHOWN IN DETAIL G ON SHEET 7
 - WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. SPLICE BY LAPPING ADJOINING PIECES NOT LESS THAN THE SPACING OF THE CROSS WIRES + 2'.
 - SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR NON-STRUCTURAL EXTERIOR SLABS AND WALKWAYS.
 - ANCHOR BOLTS EXTENDING TO THE BOTTOM OF FOOTING SHALL HAVE MINIMUM 3" CONCRETE COVER.
 - ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE.
 - ALL MOULDS, ORNAMENTS, GROOVES, CLIPS, ANCHOR BOLTS, ETC., SHOWN ON ARCHITECTURAL DRAWINGS SHALL BE PROVIDED FOR IN THE FORM WORK BEFORE THE CONCRETE IS POURED.
 - REFER TO BOTH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND SPACING OF ALL PLUMBING FIXTURES.
 - ALL REINFORCING STEEL, ANCHOR BOLTS, DOWEL AND OTHER INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO POURING CONCRETE.
 - ANCHOR BOLTS OR SILL BOLTS SHALL HAVE A 4" DIAMETER TAIL AT ENDS UNLESS OTHERWISE NOTED. DO NOT USE UPSET (ROLLED) THREADS.
 - ALL WELDING OF REINFORCEMENT SHALL BE LOW HYDROGEN ELECTRODES UNLESS OTHERWISE NOTED. WELDING OF REINFORCING SHALL BE ALLOWED ONLY WHERE DETAILED ON DRAWINGS. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY SPECIFICATIONS AWS D1.4. WELDING SHALL NOT BE DONE WITHIN TWO BAR DIAMETERS OF ANY BENT PORTION OF A BAR THAT HAS BEEN BENT COLD. WELDING OF CROSSING BARS SHALL NOT BE PERMITTED FOR ASSEMBLY OF REINFORCEMENT UNLESS AUTHORIZED BY THE STRUCTURAL ENGINEER OF RECORD. ASTM A706 REINFORCING SHALL BE USED FOR ALL REINFORCING THAT IS BEING WELDED.
 - PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY ENGINEER. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
 - SEE PROJECT SPECIFICATIONS FOR ADDITIONAL CONCRETE MIX DESIGN REQUIREMENTS.

SPECIAL INSPECTION NOTES:

- IN ACCORDANCE WITH THE REFERENCED CODE, THE CONTRACTOR OWNER SHALL EMPLOY A SPECIAL INSPECTOR WHO SHALL PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE FOLLOWING TYPES OF WORK:
 - EMBEDDED ITEMS IN CONCRETE OR MASONRY WALLS - PERIODIC
 - STRUCTURAL STEEL WELDING - CONTINUOUS
 - INSTALLATION OF EXPANSION OR EPOXIED ANCHORS
 - ALL MASONRY - CONTINUOUS
 - ALL POST INSTALLED ANCHORS - CONTINUOUS
 - ADEQUACY AND PREPARATION OF ALL FILL MATERIALS AND SUBGRADE - PERIODIC
 - PLACEMENT AND COMPACTION OF FILL MATERIALS - CONTINUOUS
 - PLACING OF REINFORCING STEEL - PERIODIC
 - PLACING OF REINFORCED CONCRETE - PERIODIC
- SPECIAL INSPECTOR'S BACKGROUND AND QUALIFICATIONS SHALL BE FORWARDED TO THE ENGINEER AT LEAST 3 DAYS BEFORE ANY INSPECTIONS ARE PERFORMED.
- "CONTINUOUS" SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK BEING PERFORMED. "PERIODIC" SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION WHO IS PRESENT IN THE AREA WHERE WORK HAS BEEN, OR IS, BEING PERFORMED AND AT THE COMPLETION OF WORK.
- INSPECTION OF PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE.
- ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
- EPOXY AND EXPANSION ANCHORS MAY BE USED ONLY WHEN APPROVED BY THE ENGINEER.
- SPECIAL INSPECTION OF SOILS SHALL REFERENCE THE APPROVED SOILS REPORT TO DETERMINE COMPLIANCE.
- SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL TESTING AND INSPECTION REQUIREMENTS.



DESIGNED:	DATE	RECORD DRAWING	SCALE
CZ	4-15-23	RESIDENT ENGINEER	HORIZ 0 10' 20'
DRAWN:	DATE		VERT 0 1' 2'
CZ	4-15-23		
CHECKED:	DATE		
JH	5-2-23		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SUPERVISING ENGINEER
 DATE: 7/16/2024

PROJECT
 DEPARTMENT OF INTERNAL SERVICES
 REEDLEY RADIO TOWER AND EQUIPMENT SHELTER

STRUCTURAL GEN NOTES
 ADDENDUM #3
 DRAWING NO. 11328 SHEET NO. 51 TOTAL 35