

SYMBOLS LEGEND

SYMBOL DESCRIPTION SYMBOL DESCRIPTION
- GRID LINES
- SECTION OR DETAIL CUT
- SHEET NUMBER
- ELEVATION CUT
- SHEET NUMBER
- ELEVATION CALLOUT
- DRAWING REVISION NUMBER
- CURRENT REVISION CLOUD
- ROUGHENED SURFACE, INTENTIONALLY ROUGHEN TO 1/4" AMPLITUDE, UNO
- STEP
- SLOPE

- NOTES:
1. ITEMS NOT DESIGNED BY MM ARE SHOWN HALFTONED.
2. ITEMS INCLUDE:
- EXISTING CONSTRUCTION
- PERFORMANCE SPECIFIED ITEMS (STAIRS, RAILINGS, ETC.)

CONCRETE NOTES

1. GENERAL:
1A. ALL WORK SHALL CONFORM WITH ACI 301, LATEST EDITION, UNLESS NOTED OTHERWISE IN DRAWINGS.
1B. DETAIL BARS IN ACCORDANCE WITH THE LATEST EDITIONS OF PUBLICATION SP-66: "ACI DETAILING MANUAL" WITH ADDED REQUIREMENTS OF THE ACI 318: "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
2. REINFORCING MATERIALS:
2A. SEE "NOTE IN S110"
3. REINFORCING FABRICATION:
3A. SPLICES:
- NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. MAKE BARS CONTINUOUS AROUND CORNERS WHERE DETAIL NOT PROVIDED. WHERE PERMITTED, SPLICES MAY BE MADE BY CONTACT LAPS OR MECHANICAL CONNECTORS.
- SEE LAP SPLICE SCHEDULE FOR LAP LENGTHS.
- SPLICE CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS, AND GRADE BEAMS LTS UNLESS NOTED OTHERWISE.
- SPLICE TOP BARS AT MIDSPAN AND BOTTOM BARS OVER SUPPORT UNLESS NOTED OTHERWISE.
3B. MISCELLANEOUS REINFORCING REQUIREMENTS:
- PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT.
- MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED.
- NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4, LATEST EDITION.
- PROVIDE ADDED REINFORCING TO TRIM ALL OPENINGS, NOTCHES, AND REINFRANT CORNERS AS NOTED IN TYPICAL DETAILS.
4. STRUCTURAL CONCRETE MIX REQUIREMENTS:
4A. SEE "CONCRETE MIX TABLE"
5. NON-SHRINK GROUT:
5A. CONFORM TO ASTM C1107.
5B. ACHIEVE 6000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
6. PLACING REINFORCEMENT:
6A. REINFORCEMENT PROTECTION:
- SEE "CONCRETE COVER TABLE"
- SEE ACI 318-08 7.5 FOR REINFORCEMENT PLACING TOLERANCES AND ACI 117 FOR ADDITIONAL REQUIREMENTS
6B. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE REINFORCEMENT AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED.
7. CONSTRUCTION/CONTROL JOINTS:
7A. SUBMIT DRAWINGS SHOWING CONSTRUCTION AND CONTROL JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS. CONSTRUCTION JOINT LOCATIONS AND CASTING SEQUENCE SHALL BE ARRANGED TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG-TERM SHORTENING/SHRINKAGE.
7B. CONSTRUCTION JOINT LOCATION AND CASTING SEQUENCE SHOWN ON THE DRAWINGS IS SUGGESTED AND HAS BEEN ARRANGED TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG-TERM SHORTENING. SUBMIT DRAWINGS SHOWING PROPOSED CONSTRUCTION JOINT LOCATION AND CASTING SEQUENCE.
7C. CONSTRUCTION JOINTS IN SLABS-ON-DECK, SLABS-ON-GRADE, AND STRUCTURAL SLABS SHALL BE LOCATED TO ACCOMMODATE THE MAXIMUM LENGTH AND AREA THE CONTRACTOR CAN REASONABLY POUR, FINISH, AND JOINT IN THE SAME DAY, BUT SHALL NOT EXCEED 150 FEET WITH A MAXIMUM AREA OF 15,000 SQUARE FEET UNLESS APPROVED BY THE ENGINEER.
7D. CONCRETE CONSTRUCTION JOINT SURFACE SHALL BE CLEANED AND ALL LAITANCE AND LOOSE MATERIAL REMOVED PRIOR TO SECOND CONCRETE PLACEMENT.
7E. SHEAR FRICTION JOINTS: WHERE CONSTRUCTION JOINTS ARE LABELED AS "ROUGHENED" ON THE DRAWINGS, THE ENTIRE JOINT SURFACE SHALL BE MECHANICALLY ROUGHENED TO A 1/4" AMPLITUDE AND THOROUGHLY CLEANED. EXPOSE THE COARSE AGGREGATE IN THE HARDENED CONCRETE AND REMOVE ALL LAITANCE AND LOOSE MATERIAL.
8. MEP AND OTHER OPENINGS AND EMBEDMENTS:
8A. PROVIDE SLEEVES AT OPENINGS (SUCH AS THOSE REQUIRED FOR PLUMBING AND ELECTRICAL PENETRATIONS) BEFORE PLACING CONCRETE. REMOVE METAL DECK AT SLEEVES AFTER CONCRETE HAS CURED TO 75% DESIGN STRENGTH MINIMUM. DO NOT CUT REINFORCING WHICH MAY CONFLICT.
8B. REFER TO TYPICAL DETAILS FOR SPACING LIMITS ON SLEEVES AND FOR REQUIREMENTS FOR EMBEDDED CONDUIT AND PIPE.

CONCRETE MIX TABLE

Table with 8 columns: INTENDED USE, 28 DAY STRENGTH, f'c (KSI), CONCRETE WEIGHT, MAX WC RATIO, MAX AGGREGATE E SIZE (IN), TOTAL AIR CONTENT (%), OTHER REQUIREMENTS, SLUMP LIMITS (in). Rows include CONCRETE PAD with values: 4.5, NWC, 0.55, 3/4, -, -, 4.

CONCRETE MIX TABLE NOTES:
- PROVIDE THE MINIMUM COMPRESSIVE STRENGTH AS INDICATED IN THE MIX TABLE. DO NOT EXCEED THE MAXIMUM WATER-CEMENT RATIO NOTED.
- PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED. WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. CONTRACTOR SHALL SELECT APPROPRIATE SLUMP. USE ADMIXTURES AS REQUIRED TO OBTAIN DESIRED RESULTS.
USE TYPE I / II PORTLAND CEMENT UNLESS NOTED OTHERWISE.
FLY ASH NOT PERMITTED FOR FOOTINGS, OR IN MIXES FOR SLAB ON GRADE AND SLAB ON METAL DECK. UP TO 40% FLY ASH BY WEIGHT OF CEMENTITIOUS MATERIALS FOR DRILLED PIERS, WALLS, GRADE BEAMS, AND COLUMNS WILL BE CONSIDERED. FOR FLY ASH CONTENT EXCEEDING 20% FLY ASH BY WEIGHT OF CEMENTITIOUS MATERIALS, CONCRETE SHALL ACHIEVE 500 PSI WITHIN 24 HOURS. SPECIFIED STRENGTH IN TABLE IS REQUIRED AT 56 DAYS.
FOR CONCRETE PLACED BY PUMPING PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE PUMPING. ENTRAINED AIR MAY BE USED TO FACILITATE PUMPING SUBJECT TO THE PROVISIONS OF NOTE b BELOW.
a. FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33:
3/4": #67 AGGREGATE
1": #57 AGGREGATE
b. WHERE AIR CONTENT IS INDICATED IN THE MIX TABLE, PROVIDE AIR ENTRAINING ADMIXTURE. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1.12%. NP IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED EXCEPT WHERE CONTRACTOR CAN DEMONSTRATE THAT SLABS WITH ENTRAINED AIR WILL HAVE A FINISH ACCEPTABLE TO THE ARCHITECT WITHOUT BLISTERS. AIR CONTENT NOTED IS BASED ON 3/4" AGGREGATE. IF 3/8" AGGREGATE IS USED, INCREASE AIR CONTENT BY 1.12%.

GENERAL NOTES

- 1) GENERAL:
1A) ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER' MEAN THE STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.
1B) THESE NOTES SUPPLEMENT THE SPECIFICATIONS, WHICH SHALL BE REFERENCED FOR ADDITIONAL REQUIREMENTS.
1C) STRUCTURAL ELEMENTS ARE CENTERED ON GRID LINES AND GRID LINE INTERSECTIONS UNLESS DIMENSIONED OTHERWISE.
2) USE OF DRAWINGS:
2A) DO NOT SCALE DRAWINGS.
2B) DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
2C) DETAILS NOTED TYPICAL APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.
2D) WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS:
- CONTACT THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION
- THE MORE STRINGENT REQUIREMENTS SHALL GOVERN FOR BIDDING / PRICING
3) EXISTING STRUCTURES:
3A) CONTRACT DOCUMENTS HAVE BEEN PREPARED USING AVAILABLE DRAWINGS AND SITE OBSERVATION AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN.
3B) DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL CONDITIONS NOT PER THE CONTRACT DOCUMENTS. EXAMPLES INCLUDE:
- SIZES OR DIMENSIONS OTHER THAN THOSE SHOWN
- DAMAGE OR DETERIORATION TO MATERIALS AND COMPONENTS
- CONDITIONS OF INSTABILITY OR LACK OF SUPPORT
- ITEMS NOTED AS EXISTING ON THE DRAWINGS BUT NOT FOUND IN THE FIELD
3C) PREPARE DIMENSIONAL DRAWINGS OF ALL DISCOVERED ITEMS.
3D) CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.
3E) CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES IN THE CONSTRUCTION SCHEDULE.
3F) SUBMIT A DIMENSIONED DRAWING OF ALL NEW OPENINGS THROUGH EXISTING STRUCTURE AND SECURE APPROVAL PRIOR TO CUTTING. NEW OPENING MAY BE EITHER SHOWN ON THE CONTRACT DOCUMENTS OR PROPOSED BY THE CONTRACTOR. DRAWING SHALL SHOW:
- VERTICAL & HORIZONTAL LOCATION AND SIZE OF NEW OPENING(S)
- ALL EXISTING OPENINGS IN THE VICINITY OF THE NEW OPENING(S)
- ALL EXISTING STRUCTURE (BEAMS, COLUMNS, SLABS, WALLS, ETC) IN THE VICINITY OF THE NEW OPENING(S)
- ALL REINFORCING BAR SIZES AND POSITIONS (LAYOUT LOCATION AND DEPTH) CONFLICTING WITH OR IN THE VICINITY OF THE NEW OPENING(S).
4) COORDINATION:
4A) STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.
4B) COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.
5) SUBMITTALS AND SUBSTITUTIONS:
5A) SUBMITTALS: REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS, IT SHALL BE APPROVED BY THE ARCHITECT AND DESIGNED BY MARTIN/MARTIN, INC. PRIOR TO SUBMITTING SHOP DRAWINGS. VARIATION SHALL BE INDICATED ON THE SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR MAKING THE CHANGE.
- CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE IN SUBMITTALS
- ALL SHOP DRAWINGS SHALL REFERENCE THE STRUCTURAL DRAWING NUMBER AND DETAIL USED TO PREPARE THE SUBMITTAL
- SUBMIT A STATEMENT OF RESPONSIBILITY FOR CONSTRUCTION OF THE LATERAL LOAD RESISTING SYSTEM IDENTIFIED IN THE DESIGN CRITERIA IN ACCORDANCE WITH CBC 2022 SECTION 1704
5B) SUBSTITUTIONS: ARCHITECT'S APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS
5C) NONCONFORMANCE: NOTIFY ARCHITECT OF CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR DESIGNING THE REPAIR.
5D) ALL SHOP DRAWINGS SHALL BE SUBMITTED IN ELECTRONIC FORMAT ONLY.
6) TEMPORARY CONDITIONS, CONSTRUCTION ENGINEERING, AND OSHA STANDARDS:
6A) THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND ONLY FOR LOADS ANTICIPATED DURING THE STRUCTURE'S SERVICE LIFE.
6B) THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. REFER TO "LATERAL LOAD RESISTING SYSTEM DESCRIPTION" IN DESIGN CRITERIA FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE ALL REQUIRED ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF WORK WHICH MAY INCLUDE, BUT IS NOT LIMITED TO:
- LAYOUT
- DESIGN FOR FORMWORK, SHORING, AND RESHORING
- DESIGN OF CONCRETE MIXES
- ERECTION PROCEDURES WHICH ADDRESS STABILITY OF THE FRAME DURING CONSTRUCTION
- WELD PROCEDURES
- DESIGN OF TEMPORARY BRACING OF WALLS FOR WIND, SEISMIC, OR SOIL LOADS
- SURVEYING TO VERIFY CONSTRUCTION TOLERANCES
- EVALUATION OF TEMPORARY CONSTRUCTION LOADS ON STRUCTURE DUE TO EQUIPMENT AND MATERIALS
- STRUCTURAL ENGINEERING TO RESIST ANY OTHER LOADS NOT IDENTIFIED ON DESIGN DRAWINGS
6C) CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
6E) NOTHING SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSTRUED AS ELIMINATING THE NEED FOR THE CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS. WHERE THE STRUCTURAL DRAWINGS APPEAR TO CONFLICT WITH OSHA REQUIREMENTS, THE STRUCTURAL DRAWINGS REPRESENT FINAL CONDITIONS ONLY.
- THE CONTRACTOR SHALL ADD ALL ERECTION FRAMING NECESSARY TO COMPLY WITH OSHA.
- THE CONTRACTOR SHALL ADD ALL NECESSARY BOLTS, ANCHOR BOLTS, PLATES, STIFFENER PLATES, STABILIZER PLATES, BRIDGING, BRACING, BEARING SEATS, COLUMN SPLICES, ETC., AS WELL AS CLOSURES FOR OPENINGS. IN ADDITION, FIELD WELD ANYTHING THAT MAY BE CONSIDERED A TRIP HAZARD, SUCH AS SHEAR STUDS, AFTER PROTECTIVE DECKING IS INSTALLED.

POST-INSTALLED ANCHOR TABLE - HILTI

Table with 5 columns: ANCHOR TYPE, PRODUCT, Fy (KSI), Fu (KSI), COMMENT. Rows include ADHESIVE (IN CONCRETE), ADHESIVE (IN CONCRETE W/12" EMBEDMENT), ADHESIVE ANCHOR RODS, EXPANSION ANCHORS (IN CONCRETE), and SCREW ANCHORS.

STRUCTURAL DRAWING LIST

Table with 2 columns: SHEET NUMBER, SHEET TITLE. Rows include S0.10 NOTES AND QUALITY ASSURANCE, S1.10 MOBILE MRI TRAILER CONC PAD.

DESIGN CRITERIA

- 1) CODES AND STANDARDS:
1A) GENERAL DESIGN
- CALIFORNIA BUILDING CODE 2022
1B) LOADS
- ASCES/EI 7-16 "MINIMUM DESIGN LOAD FOR BUILDINGS AND OTHER STRUCTURES" WHERE INDICATED ON DRAWINGS INDIVIDUAL UNFACTORED LOAD COMPONENTS (D, DL, LL, R, S, H, F, Fa, E, W, WI, T) ARE AS DEFINED AND DETERMINED BY THE BUILDING CODES AND STANDARDS INDICATED. LOAD COMPONENTS SHALL BE COMBINED USING THE LOAD COMBINATIONS OF THE BUILDING CODE FOR SPECIALTY DESIGN BY OTHERS.
1C) CONCRETE
- ACI 301-LATEST EDITION "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- ACI 318-19 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
1D) STEEL
- ANSIAISC 341-16 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS"
- ANSIAISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" LOAD AND RESISTANCE FACTOR DESIGN
2) SEISMIC LOADS
- SEISMIC DESIGN CATEGORY = F
- RISK CATEGORY = IV
- EARTHQUAKE IMPORTANCE FACTOR, Ie = 1.50
- MAPPED SPECTRAL RESPONSE ACCELERATION, Ss = 225.2 %g
- MAPPED SPECTRAL RESPONSE ACCELERATION, S1 = 87.2 %g
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SDs = 1.802
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.814
- SOIL SITE CLASS = D - CODE DEFAULT
3) WIND LOADS
- RISK CATEGORY = IV
- BASIC ULTIMATE WIND SPEED, Vult = 112 mph
- BASIC NOMINAL WIND SPEED, Vasd = 63 mph
- EXPOSURE CATEGORY = C
- INTERNAL PRESSURE COEFFICIENT, Gcpi = +/-0.18

QUALITY ASSURANCE GENERAL NOTES STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

1. GENERAL:
A. SCOPE OF WORK
- THE OWNER WILL ENGAGE A QUALIFIED INSPECTION AND TESTING AGENCY(S) TO PERFORM SPECIAL INSPECTIONS AND TESTING FOR ALL STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN.
- SUBMIT DOCUMENTATION OF QUALIFICATIONS, INCLUDING COMPETENCE AND RELEVANT WORK EXPERIENCE OR TRAINING OF SPECIAL INSPECTORS TO THE AUTHORITY HAVING JURISDICTION PRIOR TO THE START OF WORK.
- SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE AUTHORITY HAVING JURISDICTION REQUIRED BY CBC 2022 SECTION 110.
- REFER TO THE SPECIFICATIONS FOR REPORTING AND PROCEDURAL REQUIREMENTS FOR QUALITY ASSURANCE AND QUALITY CONTROL.
- REFER TO ARCH/MECH/ELEC/CIVIL SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL SPECIAL INSPECTION AND TESTING THAT MAY BE REQUIRED.
B. SPECIAL INSPECTIONS AND TESTING ARE APPLICABLE TO ALL REVISIONS AND/OR FUTURE WORK ADDED BY AMENDMENTS TO THESE DOCUMENTS.
C. DEFINITIONS
- SPECIAL INSPECTOR: THE AGENCY ENGAGED BY THE OWNER AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO ACT AS THE DESIGNATED REPRESENTATIVE TO PERFORM INSPECTIONS.
- SPECIAL INSPECTION: INSPECTION PERFORMED BY THE SPECIAL INSPECTOR ACCORDING TO CBC 2022 SECTION 1704 TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCE STANDARDS.
- (P) PERIODIC INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.
- (C) CONTINUOUS INSPECTION: THE FULL-TIME OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.
D. DEFICIENCIES IN WORK
- CORRECT DEFICIENCIES IN WORK THAT TESTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS AND REFERENCED STANDARDS.
- ALL COST OF ADDITIONAL TESTING AND/OR INSPECTIONS FOR CORRECTIVE WORK SHALL BE BORNE BY THE CONTRACTOR.
2. SHOP FABRICATIONS:
A. GENERAL
- PERFORM INSPECTIONS AND TESTING FOR ALL SHOP FABRICATED STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN.
- SPECIAL INSPECTOR SHALL PERFORM SPECIAL INSPECTIONS AND TESTING UNLESS THE FABRICATOR IS REGISTERED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION OR FABRICATION HAS A CURRENT ICCS EVALUATION REPORT.
- SPECIAL INSPECTOR SHALL VERIFY THE FABRICATOR MAINTAINS AND FOLLOWS DETAILED SHOP FABRICATION AND QUALITY CONTROL PROCEDURES, UNLESS FABRICATOR IS REGISTERED AND APPROVED.
- AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AUTHORITY HAVING JURISDICTION ACCORDING TO CBC 2022 SECTION 1704.2.5.1.
- APPROVED FABRICATORS MAY PERFORM TESTING NOTED HEREIN EXCEPT THAT NONDESTRUCTIVE TESTING (NDT) SHALL ONLY BE PERFORMED BY PERSONNEL WITH QUALIFICATIONS THAT MEET OR EXCEED THE CRITERIA OF AWS D1.1 SUBCLAUSE 6.14.6 AND AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING (ASNT) SNT-TC-1A OR ASNT CP-189.
B. SHOP FABRICATIONS INCLUDED
- SHOP FABRICATED STRUCTURAL STEEL

DEFERRED SUBMITTALS

- 1) GENERAL:
THE FOLLOWING PORTIONS OF THE STRUCTURAL DESIGN WILL NOT BE SUBMITTED AT THE TIME OF PERMIT APPLICATION, WHEN RECEIVED AND REVIEWED, THESE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR:
- ANCHORAGE, BRACING AND ATTACHMENT OF REQUIRED ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, AND OTHER EQUIPMENT AND SYSTEMS UNO ON STRUCTURAL DRAWINGS.
1B) CONNECTION OF DEFERRED SUBMITTAL ITEMS TO PRIMARY STRUCTURE BY DEFERRED SUBMITTAL SUPPLIER. DEFERRED SUBMITTAL SUPPLIER TO PROVIDE CONNECTIONS AND FRAMING ARRANGEMENT TO AVOID LOADING WHICH EXCEEDS THE CAPACITY OF THE ELEMENT BEING ATTACHED TO. REFERENCE LOAD MAPS FOR MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SPRINKLER LOAD ALLOWANCES.
1C) ALL DEFERRED SUBMITTALS TO BE ATTACHED TO PRIMARY STRUCTURE WITH A PINNED CONNECTION. MOMENT CONNECTIONS TO PRIMARY STRUCTURE NOT PERMITTED UNLESS NOTED ON DRAWINGS OR APPROVED BY ENGINEER IN WRITING PRIOR TO SUBMITTAL OF DRAWINGS OR CALCULATIONS.
1D) LOADING AND LOCATION FOR ATTACHMENT OF DEFERRED SUBMITTAL ITEMS ARE NOTED ON DRAWINGS AND ARE NOT TO BE RE-LOCATED OR INCREASED WITHOUT WRITTEN APPROVAL.
1G) WALLS, GRADE BEAMS AND THE UNDERSIDE OF CONCRETE ON METAL DECK SHALL BE CONSIDERED CRACKED FOR THE PURPOSE OF DESIGNING ANCHORS FOR ATTACHMENT OF DEFERRED SUBMITTAL ITEMS.
1H) SUBMIT STAMPED STRUCTURAL CALCULATIONS FOR ALL DEFERRED SUBMITTAL ITEMS PRIOR TO OR CONCURRENTLY WITH DRAWINGS OR PRODUCT DATA. INCLUDE ANALYSIS OF ATTACHMENT TO PRIMARY STRUCTURE. INCLUDE CURRENT ICC REPORT WITH ALL PROPRIETARY STRUCTURAL ELEMENTS AND ANCHORS/FASTENERS.
1I) POWDER ACTUATED FASTENERS (PAF) INTO CONCRETE OR CMU SHALL NOT BE USED TO RESIST TENSION LOADS.

STRUCTURAL CONCRETE TESTING

Table with 4 columns: ITEM, FREQUENCY, STANDARD, CRITERIA. Rows include REINFORCING STEEL, BOLTS AND EMBEDMENTS, CONCRETE (COMPOSITE SAMPLE, SLUMP, AIR CONTENT, TEMPERATURE, COLD WEATHER CURING, COMPRESSIVE STRENGTH).

1. NONDESTRUCTIVE TESTING MAY BE PERMITTED BY THE ARCHITECT, BUT WILL NOT BE USED AS SOLE BASIS FOR APPROVAL OR REJECTION OF DEFICIENT CONCRETE.
2. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE FOLLOWING INFORMATION: DATE OF CONCRETE PLACEMENT, LOCATION OF CONCRETE BATCH IN WORK, DESIGN 28-DAY COMPRESSIVE STRENGTH, SLUMP, CONCRETE SUPPLIER AND MIXTURE ID NUMBER, TIME OF BATCH AND PLACEMENT, AMBIENT AIR TEMPERATURE, SITE ADDED WATER AND ADMIXTURES, UNIT WEIGHT, AND AS REQUIRED BY ASTM C39.

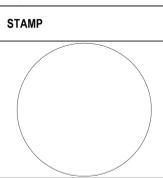
STRUCTURAL CONCRETE SPECIAL INSPECTIONS (ACI 318-14)

Table with 4 columns: ITEM, FREQUENCY, STANDARD, CRITERIA. Rows include BOLTS AND EMBEDMENTS (PRIOR TO PLACEMENT OF CONCRETE, WELDING), CONCRETE (MIX DESIGN, FORMWORK PRIOR TO PLACEMENT OF CONCRETE, PLACEMENT OF CONCRETE, CURING, SHORE/FORM REMOVAL).

Table with 4 columns: ITEM, NO., DATE, DESCRIPTION. Empty rows for project details.

CONSULTANT: MARTIN/MARTIN CONSULTING ENGINEERS, 900 Larkspur Landing Circle, Suite 201 | Larkspur, California 94939

ARCHITECT/ENGINEER OF RECORD: LANTZ-BOGGIO Architects & Interior Designers, 5650 DTC Pkwy. | Suite 200 | Englewood | CO 80111 | Ph: 303.773.0436



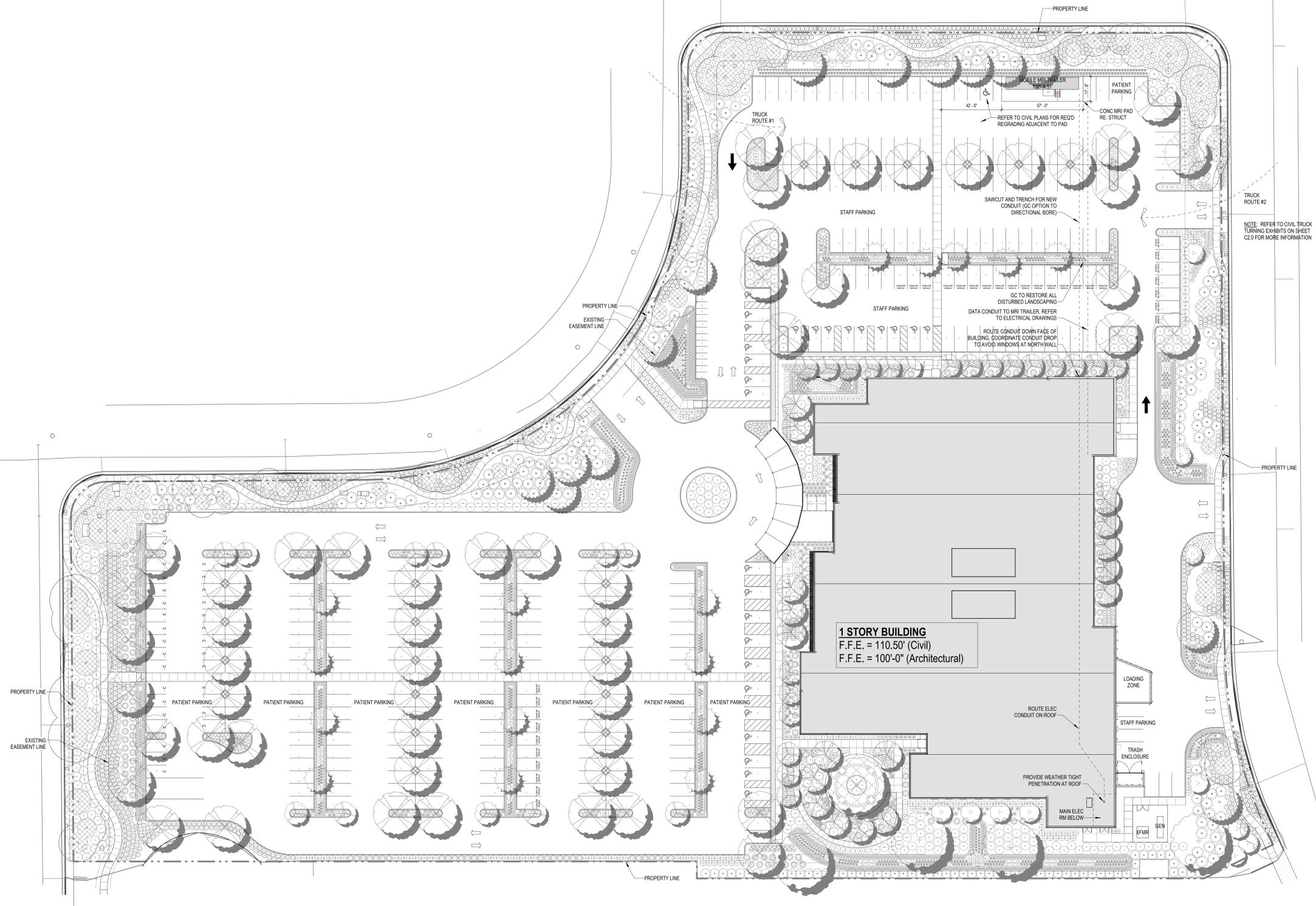
Office of Construction and Facilities Management, U.S. Department of Veterans Affairs

Drawing Title: SITE PLAN - MOBILE MRI TRAILER, Approved: [Signature]

Phase: ISSUED FOR 100% VA REVIEW, Project Title: Santa Rosa MRI Trailer

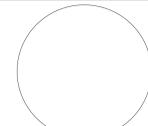
Project Number: 23.0242, Building Number, Drawing Number: S0.10, Issue Date: 19 APRIL 2023, Checked: EG, Drawn: MA

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NOTE: REFER TO CIVIL TRUCK TURNING EXHIBITS ON SHEET C2.0 FOR MORE INFORMATION

1 ARCHITECTURAL SITE PLAN
1" = 30'-0"

ITEM	NO.	DATE	DESCRIPTION	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Drawing Title	Phase	Project Title	Project Number
					A/E: LANTZ-BOGGIO Architects & Interior Designers 5650 DTC Pkwy. Suite 200 Englewood CO 80111 Ph: 303.773.0436	 01/31/2023	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	SITE PLAN - MOBILE MRI TRAILER ISSUED FOR 100% VA REVIEW	Santa Rosa MRI Trailer SANTA ROSA CALIFORNIA	Building Number Drawing Number A-110
							Approved:		Issue Date: 19 APRIL 2023 Checked: DMiller Drawn: TDepew	

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POWER OUTLETS

Table with 2 columns: Symbol and Description. Includes symbols for single-plex convenience receptacle, duplex convenience receptacle, quad convenience receptacle, duplex ground fault interrupter (GFI) convenience receptacle, duplex receptacle half switched, duplex receptacle orange in color, quad receptacle orange in color, duplex controlled receptacle, quad receptacle red in color, duplex convenience receptacle mounted 4" above counter back splash, quad convenience receptacle mounted 4" above counter back splash, duplex ground fault interrupter (GFI) convenience receptacle mounted 4" above counter back splash, special purpose, specialty receptacle, specialty standby receptacle, ceiling mounted receptacles, floor receptacles, and floor box.

ELECTRICAL ABBREVIATIONS

Table with 4 columns: #, NUMBER, RELAY, REFERENCE. Lists various electrical symbols and their corresponding terms such as RELAY, RECESSED, REFERENCE, RIGID GALVANIZED STEEL, RIGID STEEL CONDUIT, ROOT MEAN SQUARE, SECONDARY, SMOKE FIRE DAMPER, SOLID NEUTRAL, SPARE, SURGE PROTECTIVE DEVICE, SQUARE, STAINLESS STEEL, SHUNT TRIP, SHIELDED TWISTED PAIR, SUSPENDED SWITCH, SWITCHBOARD, TAMPER RESISTANT SAFETY RECEPTACLE, TELEPHONE CABINET, TELECOMMUNICATIONS CABLING INSTALLER, TELEPHONE, TELECOMMUNICATIONS GROUNDING BAR, TRANSIENT VOLTAGE SURGE SUPPRESSION, TYPICAL, UNDERGROUND, UNDERGROUND PULL SECTION, UNLESS OTHERWISE INDICATED, UNLESS OTHERWISE NOTED, UNINTERRUPTIBLE POWER SUPPLY, UNSHIELDED TWISTED PAIR, VOLT, VOLT AMPS, VOLT DROP, VERIFY LOCATION, WATT, WEATHERPROOF TRANSFORMER, WYE, ZAM.

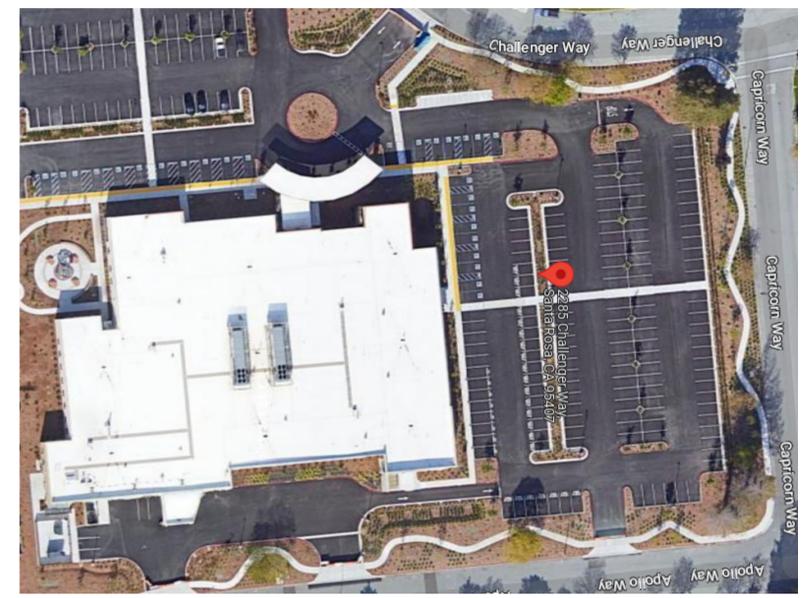
SPECIFICATIONS

SPECIFICATIONS (SECTION 16000, ELECTRICAL)
PART 1 - GENERAL
1.1 EXISTING TERMS AND CONDITIONS
A. "LANDLORD" HEREIN INDICATES THE BUILDING OWNER OR HIS REPRESENTATIVE. "OWNER" HEREIN INDICATES THE TENANT OR THE TENANT'S REPRESENTATIVE. "CONTRACTOR" HEREIN INDICATES THE ELECTRICAL CONTRACTOR (EC).
B. SECTION 16000 OUTLINES ELECTRICAL INSTALLATION OF SUBJECT PROJECT. THIS CONTRACTOR IS DIRECTED TO REFER TO OTHER SECTIONS, WHICH INCLUDES THE ARCHITECTURAL, MECHANICAL, PLUMBING PLANS, SPECIFICATIONS AND LANDLORDS REQUIREMENTS RELATIVE TO ADDITIONAL TECHNICAL AND LEGAL REQUIREMENTS.
1.2 COOPERATION, COORDINATION AND SITE VERIFICATION
A. HE SHALL HAVE A MINIMUM WORKING KNOWLEDGE OF ALL APPLICABLE CODES AND REQUIREMENTS. FURTHER, HE SHALL HAVE A BASIC WORKING KNOWLEDGE WITH RESPECT TO FEEDER SIZING, VOLTAGE DROP, BASIC DEVICE PROTECTION, ETC. IN ORDER TO INTELLIGENTLY VERIFY EXISTING FIELD CONDITIONS PRIOR TO BID AND POINT OUT DEFICIENCIES TO THE GENERAL CONTRACTOR.
B. THE PLANS INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL LAYOUT. TIGHT CONDITIONS MUST BE WORKED OUT IN ADVANCE PRIOR TO MAJOR PURCHASES OF EQUIPMENT AND ROUGH-IN WORK. DO NOT SCALE FROM THIS SET OR PLANS.
1.3 SCOPE OF WORK
THE WORK INCLUDED IN THIS SECTION OF THE SPECIFICATIONS SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL, AND EQUIPMENT TO COMPLETELY INSTALL ALL WORK SHOWN ON THE FURNISHED PLANS AND SPECIFIED HEREIN, INCLUDING, BUT NOT LIMITED TO, CONNECTIONS TO ALL EQUIPMENT ITEMS, POWER, LIGHTING, COMMUNICATIONS. ALL INSTALLATIONS TO BE ACCOMPLISHED TO THE SATISFACTION OF THE CITY INSPECTOR, LANDLORD AND OWNER IN ACCORDANCE WITH THESE SPECIFICATIONS AND PLANS.
1.4 CODES, PERMITS AND INSPECTION
1. THE INSTALLATION SHALL COMPLY WITH ALL STATE, LOCAL AND FEDERAL GOVERNMENTS OR THEIR AUTHORITIES HAVING LAWFUL JURISDICTIONS APPLYING TO ELECTRICAL INSTALLATIONS, WITH COMPLIANCE TO:
NATIONAL ELECTRICAL CODE (NEC) 2019 (CEC)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
AMERICANS WITH DISABILITIES ACT (ADA)
WHERE CONFLICT OCCURS BETWEEN CODES, THE INSTALLATION THAT OFFERS THE MOST STRINGENT REQUIREMENTS AND PROTECTION SHALL BE ENFORCED.
2. UNLESS OTHERWISE INDICATED HEREIN AND ON THE ELECTRICAL PLANS, ALL MATERIALS SHALL BE NEW AND SHALL CONFORM TO:
NATIONAL ELECTRICAL CODE (NEC) 2019 (CEC)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
AMERICANS WITH DISABILITIES ACT (ADA)
ALL EQUIPMENT AND DEVICES (INCLUDING ALL LIGHT FIXTURES, PANELBOARDS, DISCONNECTS, ETC.) SHALL HAVE THE MANUFACTURER'S NAME PRINTED THEREON AND UNDERWRITERS LABORATORY LISTED. THE SELECTION OF MATERIALS AND EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT SHALL BE IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS AND PLANS.
1.5 WORKMANSHIP
A. ALL WORK SHALL BE EXECUTED IN A FIRST CLASS WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED, AND SHALL INCLUDE MODIFICATION OR THE EXISTING SERVICE AS REQUIRED. TIME CLOCKS, OUTLETS, MOTORS, ETC., INCLUDING ALL CONDUITS, RACEWAYS, WIRING, JUNCTION BOXES, LOAD CENTERS, SWITCHES, SUPPORTS AND ALL OTHER NECESSARY APPURTENANCES REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM, INCLUDING THE HANGING AND LAMPING OF ALL FIXTURES AND TRANSFORMER(S), EXCEPT AS OTHERWISE NOTED.
B. ANY MATERIAL, ITEMS OF WORK NOT SHOWN ON THE DRAWINGS, MENTIONED IN THE SPECIFICATIONS OR VICE-VERSA, OR ANY ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION SHALL BE INCLUDED IN CONTRACTOR'S SCOPE OF WORK.
C. CONDUIT SHALL BE CANCELED WHEREVER POSSIBLE AND SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS AND CEILING.
PART 2 - PRODUCTS AND EXECUTION
1.1 ELECTRICAL MATERIALS
A. THE MANUFACTURER'S CATALOG NUMBERS GIVEN IN THE ELECTRICAL DRAWINGS ARE USED TO INDICATE THE CLASS AND TYPE OF EQUIPMENT DESIRED.
1.2 CONDUIT AND FITTINGS
A. CONDUIT SHALL BE CONSTRUCTED AS ELECTRICAL RACEWAYS AND SHALL CONFORM TO THE FOLLOWING:
1. CONCEALED IN HUNG CEILING AND PARTITIONS - EMT / MC
2. EXPOSED ON BUILDING EXTERIOR OR SUBJECTED TO PHYSICAL DAMAGE - RIGID GALVANIZED STEEL OR INTERMEDIATE STEEL CONDUIT.
3. CONNECTION TO MOTORS, HVAC PACKAGES OR ANY EQUIPMENT SUBJECTED TO VIBRATION - FLEX 4" MAXIMUM LIQUID TIGHT (LOR EXTERIOR).
4. MC / ELEX NOT EXCEEDING 4" LOR LIGHT FIXTURES.
5. UNDERGROUND, UNDERSLAB OR IN SLAB - SCHEDULE 40 PVC.
6. RIMAX AND BX NOT PERMITTED.
7. PVC ABOVE GRADE NOT PERMITTED.
8. LIQUID TIGHT CONNECTIONS AND DEVICES IN FOOD PREPARATION AREAS.
B. ALL RACEWAYS SHALL BE RUN CONCEALED IN CEILING, WALLS OR FLOOR SLABS. EXPOSED RACEWAYS SHALL BE LIMITED TO EQUIPMENT IN NON PUBLIC AREAS IN SERVICE EQUIPMENT ROOM.
1.3 WIRE AND CONNECTORS
A. WHERE SERVICE MAIN REEDED CONDUCTORS ARE FURNISHED BY THE ELECTRICAL UTILITY AS ALUMINUM, USE APPROVED BIMETAL CONNECTORS AND LUGS FOR PROPER TERMINATION OF CONDUCTORS. TORQUE TO MANUFACTURER'S SPECIFICATIONS.
B. ALL SPLICE CONNECTORS SHALL BE 36 SCOTCHLOK OR EQUIV.

SCOPE OF WORK

FURNISH AND INSTALL INFRASTRUCTURE AND EQUIPMENT TO SERVE THE MOBILE MRI TRAILER FOR POWER AND TELECOMMUNICATIONS. MRI TRAILER BY OTHERS.
ALL REFERENCES TO CUSTOMER OR FACILITY IS WORK TO BE PERFORMED BY THE CONTRACTOR.
Sheet Number: E0
Sheet Title: SYMBOL LIST & DRAWING INDEX
E0 SYMBOL LIST & DRAWING INDEX
E1.1 SITE - POWER CONDUITS
E1.2 SITE - TELECOM CONDUITS
E4 PRELIMINARY SINGLE LINE DIAGRAM
E6 TELECOM DETAILS
E8 POWER DETAILS

SITE LOCATION



POWER DISTRIBUTION

Table with 2 columns: Symbol and Description. Includes symbols for flush mounted panel board, surface mounted panel board, distribution panel board, transformer, fused disconnect switch, disconnect switch, enclosed circuit breaker, manual motor starter switch, motor, junction box - wall mounted, junction box - ceiling mounted, junction box - floor mounted, branch conduit wiring, branch circuit wiring, under slab or underground electrical ductbank, under slab or underground primary service, under slab or underground secondary service, homerun to destination, indicates conduit riser within building wall, indicates conduit riser within building wall, 1/2" conduit with 1#12H-1#12N-1#12G, 1/2" conduit with 2#12H-1#12N-1#12G, 1/2" conduit with 3#12H-1#12N-1#12G, handhole, manhole, busduct riser, underground pull box.

RACEWAY

Table with 2 columns: Symbol and Description. Includes symbols for branch conduit wiring in conduit concealed in ceiling or wall, branch circuit wiring in conduit concealed under floor or underground, under slab or underground electrical ductbank, under slab or underground primary service, under slab or underground secondary service, homerun to destination as indicated, indicates conduit riser within building wall, indicates conduit riser within building wall, 1/2" conduit with 1#12H-1#12N-1#12G, 1/2" conduit with 2#12H-1#12N-1#12G, 1/2" conduit with 3#12H-1#12N-1#12G, handhole, manhole, busduct riser, underground pull box.

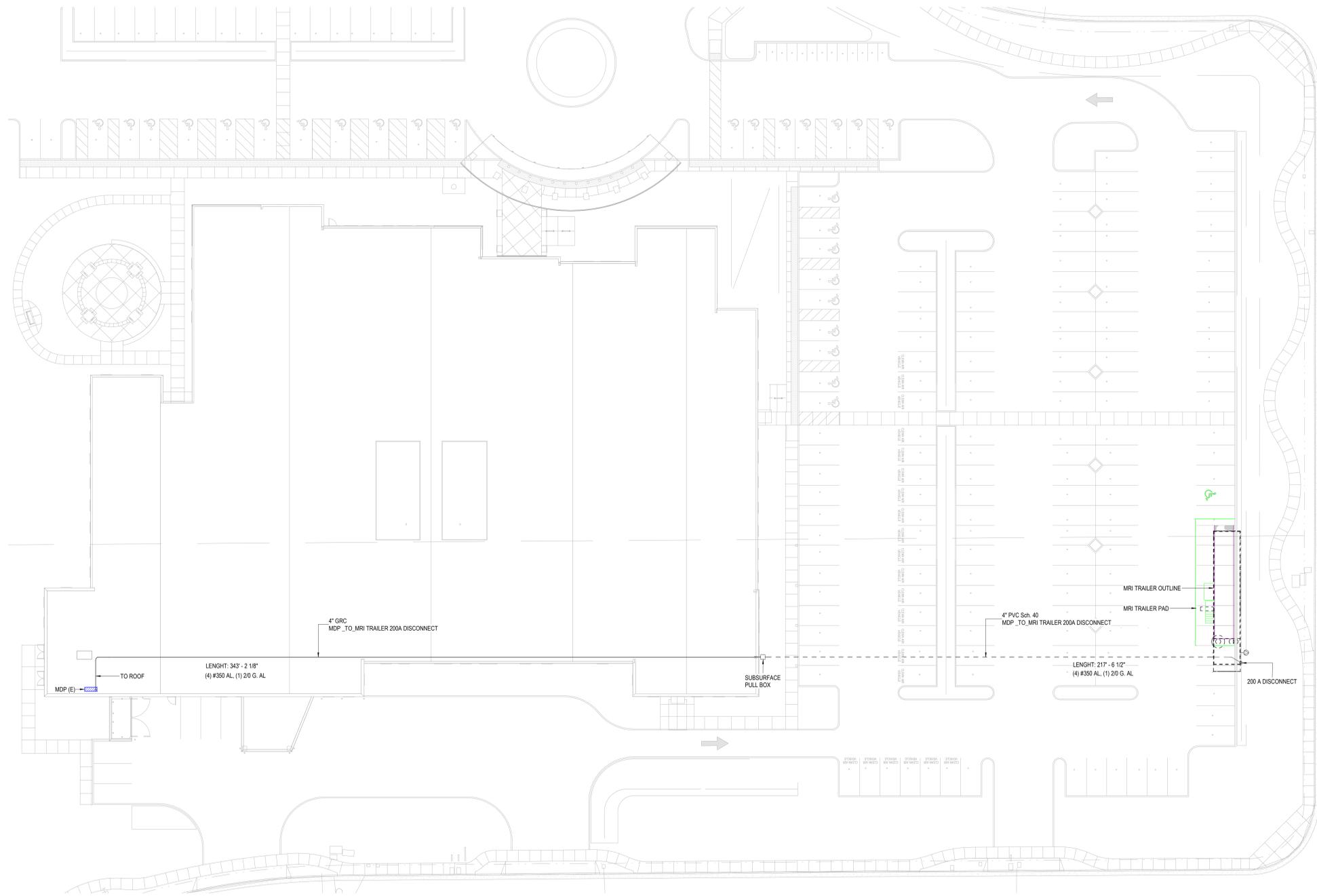
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Project information table including:
ITEM 1 NO. 1 DATE 4/19/23 ELECTRICAL PERMIT SET DESCRIPTION
CONSULTANT: HELIX ELECTRIC
ARCHITECT/ENGINEER OF RECORD: LANTZ-BOGGIO Architects & Interior Designers
Office of Construction and Facilities Management
U.S. Department of Veterans Affairs
Drawing Title: SYMBOL LIST & DRAWING INDEX
Phase: ISSUED FOR 100% VA REVIEW
Project Title: Santa Rosa MRI Trailer
Project Number:
Building Number:
Location: SANTA ROSA CALIFORNIA
Drawing Number: E0
Issue Date: 4/19/23
Checked: ES
Drawn: KK

SITE - POWER CONDUIT RUN SCHEDULE			
SYSTEM	FROM	TO	LENGTH
NORMAL POWER	MDP	MRI TRAILER 200A DISCONNECT	217' - 6 1/2"
NORMAL POWER	MDP	MRI TRAILER 200A DISCONNECT	343' - 2 1/8"
			560' - 8 3/4"

SHEET NOTES

1. --- UNDERGROUND
2. CONNECTOR TYPE:
MRI UNIT IS SUPPLIED WITH A 50-FOOT CABLE AND MALE CONNECTOR. THE CONNECTOR IS A RUSSELLSTOLL 200 AMP PLUG #DS2504MPO0DF2504FRABD
3. CUSTOMER FACILITY:
CONTRACTOR TO PROVIDE MATCHING RECEPTACLE AS SPECIFIED IN ON SHEET ES DETAIL 1: RUSSELLSTOLL SERVICE OUTLET. THE RECEPTACLE IS A RUSSELLSTOLL #DF2504FRABD
4. GROUND CONDUCTOR:
AN INSULATED GROUND CONDUCTOR SIZED IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES SHALL BE INSTALLED BETWEEN THE FACILITY VAULT AND THE MRI SYSTEM GROUND BUS LOCATION IN THE POWER DISTRIBUTION UNIT.
5. SPECIAL GROUNDING NOTE:
IT IS RECOMMENDED THAT THE UNIT HAVE AN EARTH DRIVEN GROUND ROD WITHIN FIVE (5) FEET OF THE FACILITY POWER RECEPTACLE. A GROUNDING CABLE OF A MINIMUM OF #3/8 AWG IS RECOMMENDED TO BE CONNECTED BETWEEN THE GROUNDING ROD AND THE GROUNDING PIN OF THE FACILITY POWER RECEPTACLE. ANOTHER CABLE TO BE KEPT AS SHORT AS POSSIBLE MAY ALSO BE CONNECTED BETWEEN THE GROUND STUD ON THE INCOMING POWER DISTRIBUTION PANEL AND AN EARTH DRIVEN GROUND ROD. A SEPARATE GROUNDING CONDUCTOR IS HIGHLY RECOMMENDED TO BE RAN WITH THE PHASE CONDUCTORS TO THE SOURCE OF POWER FROM THE GROUNDING PIN OF THE FACILITY POWER RECEPTACLE IN ACCORDANCE WITH NEC 2017 ARTICLE 250-24



1 LEVEL 01 - SITE POWER CONDUITS
3/64" = 1'-0"

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ITEM	NO.	DATE	DESCRIPTION
1	1	4/19/23	ELECTRICAL PERMIT SET

CONSULTANT

HELIX ELECTRIC
CONSTRUCTORS • ENGINEERS
4795 Riverbank Circle • San Diego, CA 92121
PH: (619) 555-0001 FAX: (619) 555-0757

ARCHITECT/ENGINEER OF RECORD

A/E:

LANTZ-BOGGIO
Architects & Interior Designers
5650 DTC Pkwy. | Suite 200 | Englewood | CO 80111 | Ph: 303.773.0436

STAMP

Office of Construction and Facilities Management

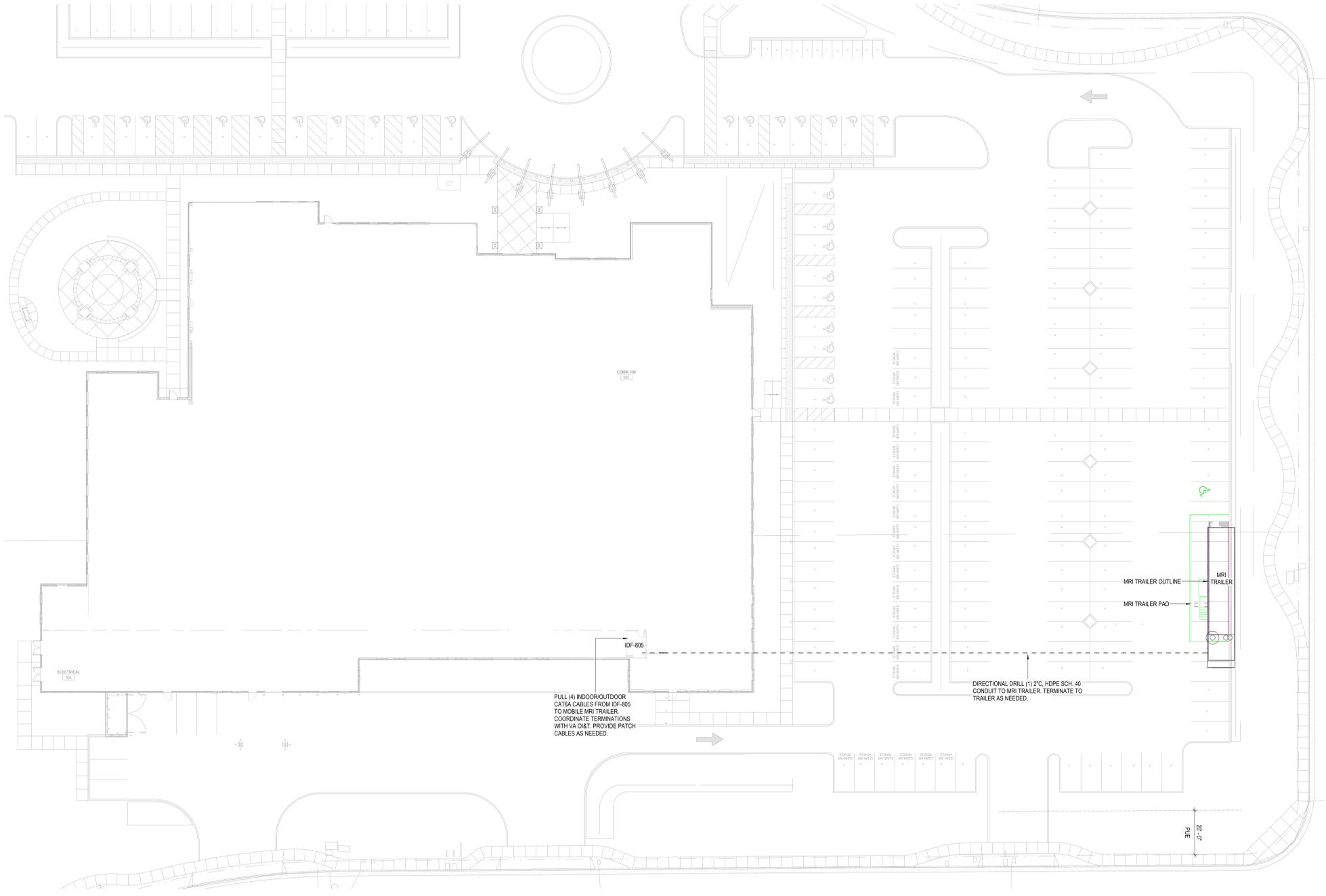
VA U.S. Department of Veterans Affairs

Drawing Title
SITE - POWER CONDUITS

Approved:

Phase
ISSUED FOR 100% VA REVIEW

Project Title Santa Rosa MRI Trailer		Project Number
Location SANTA ROSA CALIFORNIA		Drawing Number E1.1
Issue Date 4/19/23	Checked ES	Drawn AN



- SHEET NOTES**
1. --- UNDERGROUND
 2. BURIED CABLE INSTALLATION PATHWAY SEPARATION. TELECOM CONDUIT MUST MAINTAIN 12 INCH SEPARATION FROM POWER CONDUIT.
 3. SEE TELECOM DETAILS DIAGRAM.

PULL (4) INDOOR/OUTDOOR CAT6A CABLES FROM IDF-805 TO MOBILE MRI TRAILER. COORDINATE TERMINATIONS WITH VA CIST. PROVIDE PATCH CABLES AS NEEDED.

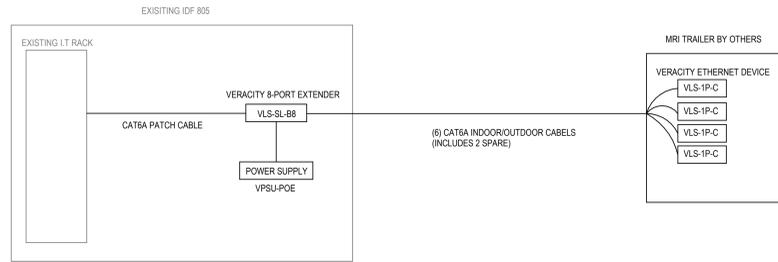
DIRECTIONAL DRILL (1) 2" HDPE SCH. 40 CONDUIT TO MRI TRAILER. TERMINATE TO TRAILER AS NEEDED.

1 LEVEL 01 - SITE TELECOM CONDUITS
3/8" = 1'-0"

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<table border="1"> <thead> <tr> <th>ITEM</th> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>4/19/23</td> <td>ELECTRICAL PERMIT SET</td> </tr> </tbody> </table>		ITEM	NO.	DATE	DESCRIPTION	1	1	4/19/23	ELECTRICAL PERMIT SET	<p>CONSULTANT</p> <p>HELIX ELECTRIC CONSTRUCTORS + ENGINEERS 4795 Rowland Circle San Diego, CA 92121 PH: (619) 555-0001 FAX: (619) 555-0757</p>		<p>ARCHITECT/ENGINEER OF RECORD</p> <p>A/E:</p> <p>LANTZ-BOGGIO Architects & Interior Designers 5650 DTC Pkwy. Suite 200 Englewood CO 80111 Ph: 303.773.0436</p>		<p>STAMP</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>		<p>Drawing Title SITE - TELECOM CONDUITS</p> <p>Approved:</p>		<p>Phase ISSUED FOR 100% VA REVIEW</p>		<p>Project Title Santa Rosa MRI Trailer</p>		<p>Project Number</p>	
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										<p>Issue Date 4/19/23</p>		<p>Checked Checker</p>												
										<p>Drawn Author</p>		<p>Drawing Number E1.2</p>												

A
B
C
D
E
F



- NOTES:
1. 8-PORT EXTENDER REQUIRES 120V POWER. UTILIZE EXISTING WALL OUTLET FOR POWER.
 2. INTENT IS TO PROVIDE A FULLY FUNCTIONAL AND TURNKEY TELECOM INFRASTRUCTURE AND EQUIPMENT SOLUTION TO SERVICE THE MOBILE MRI TRAILER. PROVIDE ALL NECESSARY ANCILLARY ITEMS AS NECESSARY TO FULFILL THE DESIGN INTENT.
 3. PROVIDE ADDITIONAL PATCH PANEL IF NO AVAILABLE PATCH CORD POSITIONS ARE AVAILABLE.
 4. COORDINATE WITH VA IT FOR PATCH CABLE AND PATCH PANEL POSITIONING. UTILIZE EXISTING IDF 805 CABLE TRAY AND AVAILABLE LADDER RACK TO PROVIDE AN ORGANIZED AND PROFESSIONAL INSTALLATION.
 5. PROVIDE DITEX MRJ-POE (OR EQUAL) SURGE PROTECTION DEVICE FOR ALL CABLES (ONE DEVICE AT EACH HEAD AND TAIL END).

1 TELECOM DIAGRAM
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1	1	4/19/23	ELECTRICAL PERMIT SET

CONSULTANT

HELIX ELECTRIC
CONSTRUCTORS • ENGINEERS
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PH: (619) 555-0001 FAX: (619) 555-0757

ARCHITECT/ENGINEER OF RECORD

A/E:

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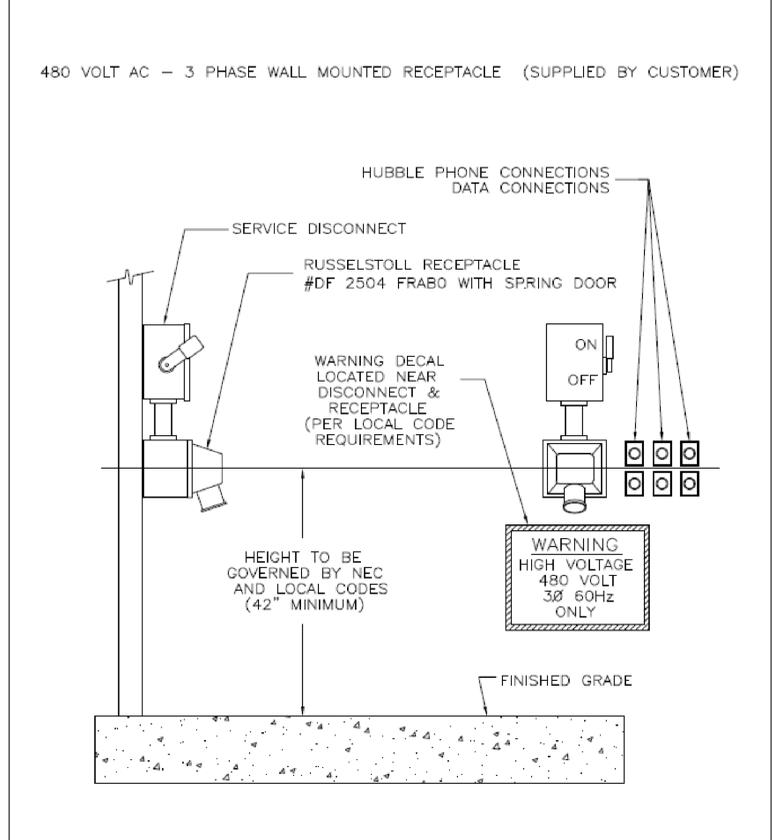
U.S. Department of Veterans Affairs

Drawing Title TELECOM DETAILS
Approved:

Phase ISSUED FOR 100% VA REVIEW		
Issue Date 4/19/23	Checked Checker	Drawn Author

Project Title Santa Rosa MRI Trailer	Project Number
Location SANTA ROSA CALIFORNIA	Drawing Number E6

RUSSELLSTOLL RECEPTACLE/ DISCONNECT DIAGRAM



RECEPTACLE AND INSTALLATION PROVIDED BY CUSTOMER

RUSSELLSTOLL RECEPTACLE CHART

AMP / WIRE	DESCRIPTION		RECEPTACLE
	WIRES	POLES	PART NUMBER
MAXIMUM WIRE SIZE FOR LUG # 3/0	5	4	480 VOLT (150 AMP) 5 WIRE RUSSELLSTOLL RECEPTACLE DF 2504 FRABO THIS RECEPTACLE MUST BE WATERPROOF
480 VOLT AC DEDICATED POWER LINE FROM MAIN TRANSFORMER STATION	3Ø		WYE CONNECTION 150 AMP TOTAL 3Ø NEUTRAL AND GROUND
RUSSELLSTOLL MATING PLUG PART# DS2504MP000/DF2034 5 WIRE/4 POLE			MAIN DISCONNECT 3/N/PE AC 480 VOLT 150 AMP FUSED DISCONNECT

RECEPTACLE AND INSTALLATION PROVIDED BY CUSTOMER

① RUSSELLSTOLL RECEPTACLE AND DISCONNECT DIAGRAM DETAILS
NTS

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ITEM	NO.	DATE	DESCRIPTION
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CONSULTANT

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ARCHITECT/ENGINEER OF RECORD

A/E:

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STAMP

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
POWER DETAILS

Approved:

Phase
ISSUED FOR 100% VA REVIEW

Project Title
Santa Rosa MRI Trailer

Location
SANTA ROSA CALIFORNIA

Issue Date
4/19/23

Checked
Checker

Drawn
Author

Project Number

Building Number

Drawing Number
E8