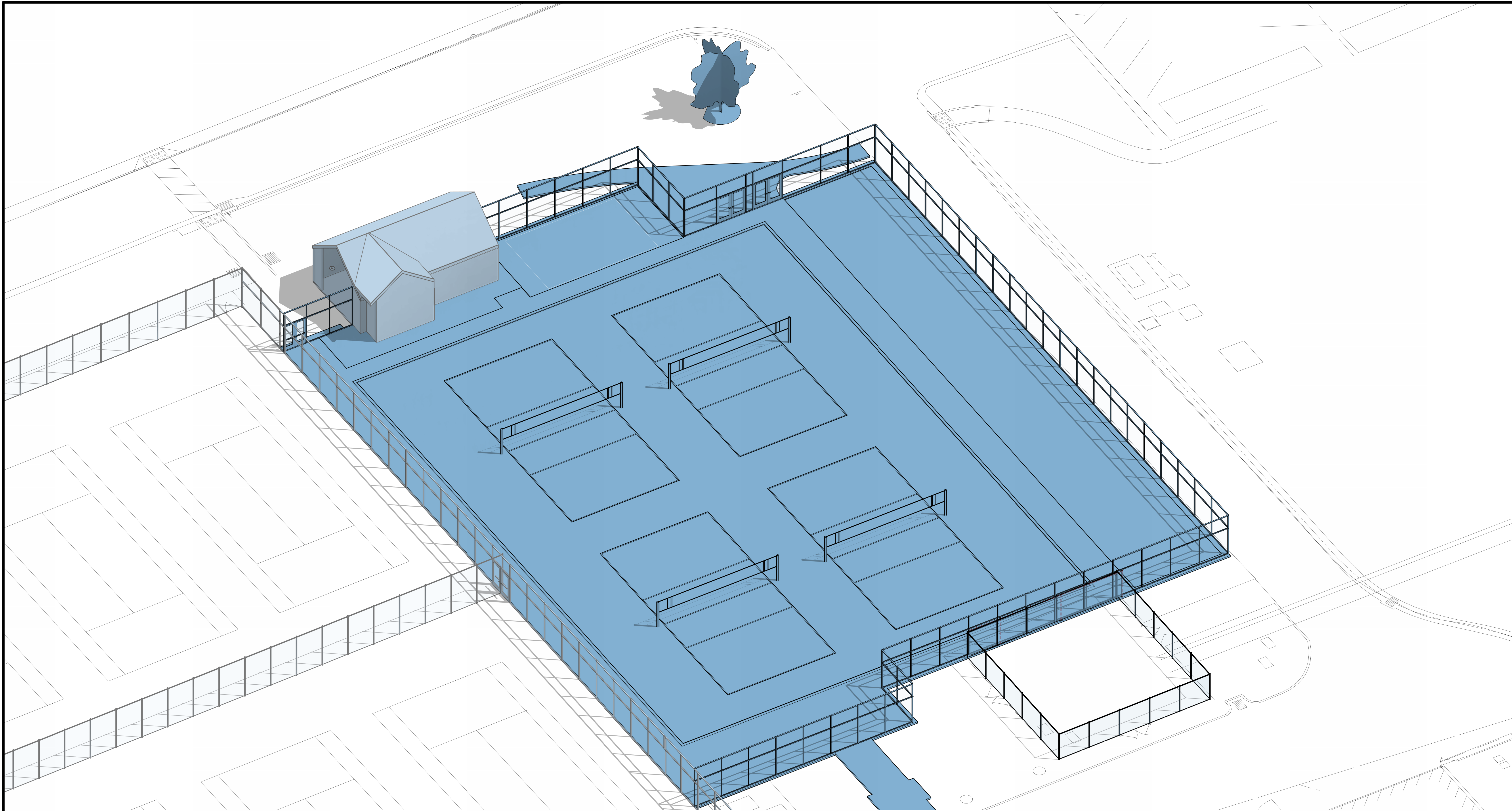


DATE PLOTTED: 2/19/2025 12:18:49 PM FILE LOCATION: C:\Users\fran\Documents\24056 - Solano CC Sand Volleyball Complex\_rhankLMYC.rvt



# SOLANO COMMUNITY COLLEGE SAND VOLLEYBALL COMPLEX

FEBRUARY 14, 2025

DSA BACKCHECK

FILE NO.48-C1  
02-122861

AGENCY APPROVAL DSA# 02-122861

196

880 HARRISON ST, SUITE 303B  
SAN FRANCISCO, CA 94107  
TEL (628) 212-9200

CONSULTANTS

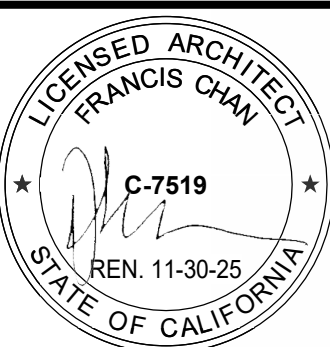
CIVIL ENGINEER  
BLAIR, CHURCH & FLYNN  
451 CLOVIS AVENUE, SUITE 200  
CLOVIS, CA 93612  
TEL (559) 326-1400

LANDSCAPE ENGINEER  
BLAIR, CHURCH & FLYNN  
451 CLOVIS AVENUE, SUITE 200  
CLOVIS, CA 93612  
TEL (559) 326-1400

ELECTRICAL ENGINEER  
ATLUM ENGINEERING  
3533 YORK LANE  
SAN RAMON, CA 94582  
TE (913)961-1658

ARCHITECT STAMP

CONSULTANT STAMP



REVISIONS

| NO. | DATE     | DESCRIPTION   |
|-----|----------|---------------|
|     | 05.13.25 | ISSUE FOR BID |
|     |          |               |
|     |          |               |
|     |          |               |
|     |          |               |
|     |          |               |
|     |          |               |

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

**SOLANO COMMUNITY COLLEGE**  
4000 Suisun Valley Rd  
Fairfield, CA 94534

**SAND VOLLEYBALL COMPLEX**  
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE

**COVER SHEET**

DRAWN BY: xx

JOB NUMBER: 24056

SHEET NO.

**G-000**

DATE: FEBRUARY 14, 2025

DSA BACKCHECK



DATE PLOTTED: 5/13/2025 3:24:30 PM FILE LOCATION: C:\Users\marlin\Documents\24056 - Solano CC Sand Volleyball Complex - marlin\NZ37.rvt

# SOLANO COMMUNITY COLLEGE

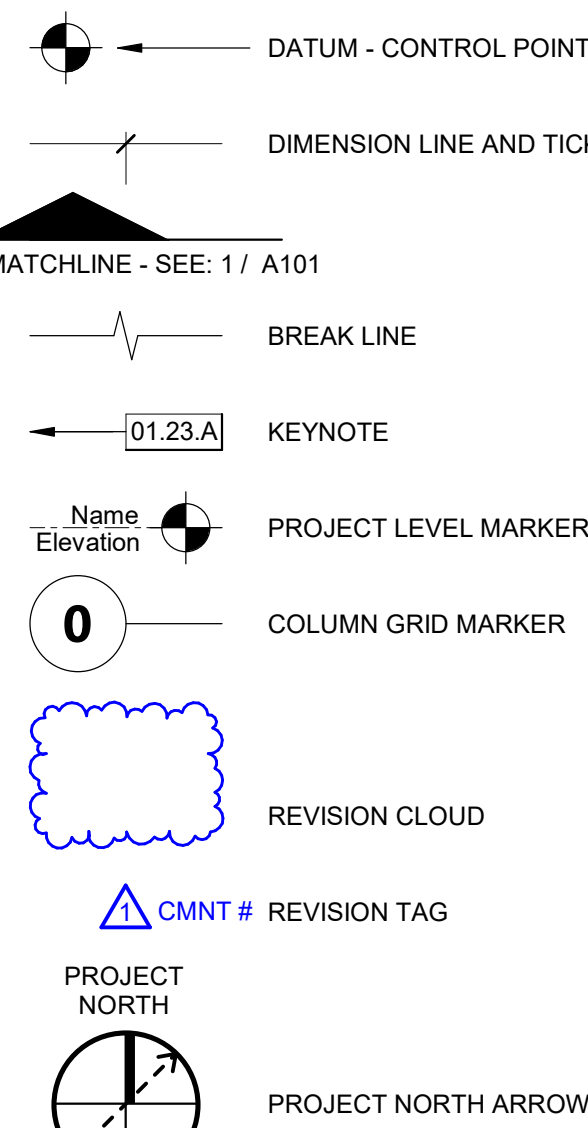
## SAND VOLLEYBALL COMPLEX

### FILE NO.48-C1

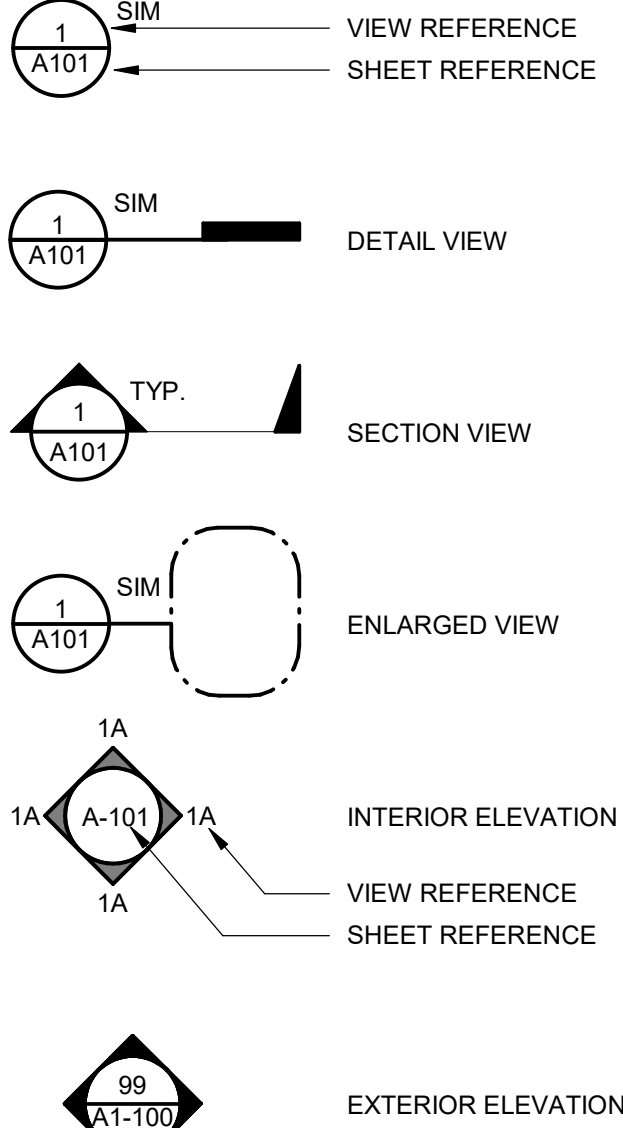
### 02-122861

#### SYMBOLS

##### DRAFTING ITEMS



##### VIEW REFERENCES



#### ABBREVIATIONS

|        |                               |         |   |
|--------|-------------------------------|---------|---|
| AT     | CENTER LINE                   | ID      | INSIDE DIAMETER   |
| CD     | PENNY                         | INSUL   | INSULATION OR INSULATED                                 |
| LB     | POUND                         | INV     | INVERT  |
| LB     | PERPENDICULAR                 | LAV     | LAVATORY  |
| Z      | ANGLE                         | MATL    | MATERIAL  |
| AB     | ANCHOR BOLT                   | MAX     | MAXIMUM   |
| AC     | ASPHALTIC CONCRETE            | MB      | MACHINE BOLT  |
| ACT    | ACOUSTICAL CEILING TILE       | MECH    | MECHANICAL  |
| AFF    | ABOVE FINISH FLOOR            | MFR     | MANUFACTURER  |
| ALT    | ALTERNATE                     | MH      | MAN HOLE  |
| ALUM   | ALUMINUM                      | MIN     | MINIMUM   |
| AND    | AND APPROXIMATE               | MISC    | MISCELLANEOUS   |
| ARCH   | ARCHITECT                     | NO      | MASONRY OPENING   |
| BO     | ARCHITECT OR ARCHITECTURAL    | N       | NORTH   |
| BOARD  | BOARD                         | (N)     | NEW   |
| BLK(G) | BUILDING                      | NC      | NOT IN CONTRACT   |
| BLOC   | BLOCKING                      | NO OR # | NUMBER  |
| BM     | BOTTOM OF BEAM                | NTS     | NOT TO SCALE  |
| BS     | BEAM                          | OC      | ON CENTER   |
| CB     | CATCH BASIN                   | OD      | OUTSIDE DIAMETER  |
| CI     | CAST IRON                     | OPNG    | OPENING   |
| CLG    | CONSTRUCTION JOINT            | P       | PLATE OR PROPERTY LINE                                  |
| CLR    | CEILING                       | PLAM    | PLASTIC LAMINATE  |
| CLN    | CLEAR                         | PLAS    | PLASTER NUMBER - (SEE SPECS)                            |
| CONC   | CONCRETE MASONRY UNIT         | PLYWD   | PLYWOOD   |
| CO     | CLEAN OUT                     | PNT     | PAINT NUMBER - (SEE SPECS)                              |
| CONC   | CONCRETE                      | PTDF    | PRESSURE TREATED DOUGLAS FIR                            |
| CONT   | CONTINUOUS                    | QT      | QUARRY TILE   |
| CH     | COUNTERSINK                   | RD      | ROOF DRAIN  |
| DEPT   | COLD WATER                    | REF     | REFRIGERATOR  |
| DET    | DEPARTMENT                    | REIN    | REINFORCE OR REINFORCING                                |
| DBL    | DOUBLE                        | RH      | ROUND HEAD  |
| DEPT   | DEPARTMENT                    | ROOM    | ROOM  |
| DET    | DEPARTMENT                    | RO      | ROUGH OPENING   |
| DF     | DETAIL                        | RWD     | REDWOOD   |
| DIA    | DIAMETER                      | S       | SOUTH   |
| DAG    | DIAGONAL                      | SCH     | SCHEDULE  |
| DS     | DOWN                          | SD      | STORM DRAIN   |
| DWG    | DOWNSPOUT                     | SHR     | SHOWER  |
| E      | DRAWING                       | SHT     | SHEET   |
| (E)    | EAST                          | SHTHG   | SHEDDING  |
| EB     | EXISTING                      | SIM     | SIMILAR   |
| EJ     | EXPANSION BOLT                | SMACNA  | THE ARCH SHEET METAL MANUAL                             |
| EXP    | EXPANSION JOINT               | SPEC    | SPECIFICATION   |
| ELEV   | ELEVATION                     | SQ      | SQUARE  |
| ELEC   | ELECTRICAL                    | SSTL    | STAINLESS STEEL   |
| EQ     | EDGE OF PAVING                | STD     | STANDARD  |
| EQUIP  | EQUAL                         | STL     | STEEL   |
| F      | FLOOR                         | SUSP    | SUSPENDED   |
| FLOOR  | FLOOR                         | SYM     | SYMMETRICAL   |
| FF     | FIRE EXTINGUISHER (8 CABINET) | TOP     | TOP OF BEAM   |
| FG     | FINISHED FLOOR                | TCC     | TOP OF CURB OR TOP OF CONCRETE                          |
| FG     | FINISHED GRADE                | TCB     | TOP OF CATCH BASIN                                      |
| FN     | FLAT HEAD OR FIRE HYDRANT     | TEL     | TELEPHONE   |
| FIN    | FINISH                        | TEMP    | TEMPERATURE OR TEMPERED                                 |
| FLG    | FLOW LINE                     | T&G     | TONGUE & GROOVE   |
| FLR    | FLASHING                      | TV      | TELEVISION  |
| FLO    | FLOOR                         | TS      | STRUCTURAL TUBING                                       |
| FOF    | FACE OF CONCRETE              | TOW     | TOP OF WALL   |
| FOM    | FACE OF FINISH                | TYP     | TYPICAL (ITEMS TYPICAL UNLESS SHOWN OR NOTED OTHERWISE) |
| FOS    | FACE OF MASONRY               | UNP     | UNLESS OTHERWISE NOTED                                  |
| FRP    | FACE OF STUD                  | VCT     | VINYL COMPOSITION TILE                                  |
| FT     | FIBERGLASS REINFORCED PANEL   | VERT    | VERTICAL  |
| FTG    | FOOT OR FEET                  | VGR     | VERTICAL GRAIN DOUGLAS FIR                              |
| GA     | GAUGE                         | VTR     | VENT THRU ROOF  |
| GALV   | GALVANIZED                    | W       | WEST  |
| GL     | GRAB BAR, GRADE BREAK         | WC      | WATER CLOSET  |
| GLB    | GLASS                         | WC      | WHEELCHAIR ACCESSIBLE                                   |
| GYP    | GLUE LAMINATED BEAM           | WOD     | WOOD  |
| GWB    | GYPSPUM                       | WF      | WIDE FLANGE   |
| HB     | GYPSPUM WALL BOARD            | WH      | WATER HEATER  |
| HDR    | HOSE BIBB                     | WP      | WATERPROOF  |
| HCT    | HEADER                        | WS      | WOOD SCREW  |
| HORIZ  | HEIGHT                        | WSCOT   | WAINSCOT  |
| HTR    | HORIZONTAL                    | WWF     | WELDED WIRE FABRIC                                      |
| HVAC   | HEATER                        | WTH     | WITH  |
|        | HEATING/VENTILATING/AIR       | W/O     | WITHOUT   |
|        | CONDITIONING                  |         |   |

#### GENERAL PROJECT NOTES - COMUNITY COLLEGE

- ALL WORK SHALL CONFORM TO THE BUILDING CODES LISTED IN THESE DOCUMENTS AND ALL CURRENT REVISIONS AND REGULATIONS AS INSTITUTED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
- THE PROJECT MANUAL AND SPECIFICATIONS IN CONJUNCTION WITH THESE DRAWINGS AND REFERENCES SHALL FORM A PART OF THE CONTRACT AND SHALL BE REFERRED TO AS THE "DOCUMENTS". THE DOCUMENTS DEFINE THE WORK TO BE PERFORMED AS AGREED TO IN THE CONTRACT.
- CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS.
- A DSA CERTIFIED INSPECTOR WITH CLASS 2 SHALL BE EMPLOYED BY THE DISTRICT AND SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS. THE PROJECT INSPECTOR SHALL BE CERTIFIED BY DSA TO INSPECT.
- APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWING SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO ENSURE THAT IT IS BUILT IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE ARCHITECT WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK. SEE NOTE 3 FOR DSA INSPECTION REQUIREMENTS.
- ANY DAMAGE DONE TO THE EXISTING CONSTRUCTION DURING THE COURSE OF THIS WORK SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- NOT USED.
- NOT USED.
- NOT USED.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE NEW CONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE THOROUGHLY FAMILIARIZE WITH THE DOCUMENTS. ALL DISCREPANCIES, CONFLICTS OR OMISSIONS WITHIN THE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION. FAILURE TO INFORM THE ARCHITECT PRIOR TO THE START OF WORK SHALL CONSTITUTE ACCEPTANCE OF THE DISCREPANCIES, CONFLICTS OR OMISSIONS BY THE CONTRACTOR AND THE WORK SHALL BE COMPLETED AS DEFINED IN THE DOCUMENTS WITHOUT ADDITIONAL COST OR TIME DUE TO THE DISCREPANCIES, CONFLICTS OR OMISSIONS.
- THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE ACQUAINTED WITH THE WORK OF OTHER TRADES WHOSE ACTIVITIES WILL ADJOIN OR BE AFFECTED BY THEIR WORK. THEY SHALL CONSULT WITH THESE OTHER CONTRACTORS OR WORKERS AND STUDY THEIR SHOP DRAWINGS IN ORDER TO COORDINATE THEIR EFFORT TOWARD AVOIDING MISTAKES, OMISSIONS, DISPUTES OR DELAYS.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT AND CONSULTANTS SHALL NOT INCLUDE INSPECTIONS OF THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURE'S REQUIRED, WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL REVIEW STRUCTURAL, ELECTRICAL, DRAWINGS FOR CURBS, PADS FOR SIZE, LOCATION AND APPLICABLE DETAILS. VERIFY FINAL ITEMS WITH SELECTED SUPPLIERS. ALL SUCH WORK IS A PART OF THE WORK.
- ALL DIMENSIONS SHOWN ARE TAKEN TO GRID LINES, THE FACE OF STUD, FACE OF MASONRY OR FACE OF CONCRETE UNLESS NOTED OTHERWISE. VERIFY ALL DIMENSIONS AT THE SITE.
- DO NOT SCALE DRAWINGS, DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE.
- REFERENCE TO ANY PARTICULAR DETAIL OR DRAWING IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT THE APPLICATION OF SUCH DETAIL OR DRAWING. NOTES AND DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS NOTED OTHERWISE.
- THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL MAKE FIELD MEASUREMENTS NECESSARY FOR THIS WORK, AND BE RESPONSIBLE FOR THEIR ACCURACY. VERIFY ALL DIMENSIONS, GRADES AND CONDITIONS OF THE WORK BEFORE AND DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL PROTECTIVE WALLS, FENCES AND BARRIERS TO SAFEGUARD THE PUBLIC FROM THE CONSTRUCTION WORK FOR THE ENTIRE TIME THE CONSTRUCTION IS IN PROGRESS.
- THE LOCATION OF ALL STAGING, PARKING, LOADING AND STORAGE OF MATERIALS, EQUIPMENT AND EMPLOYEES ON THE SITE SHALL BE VERIFIED WITH AND APPROVED IN WRITING BY THE OWNER.
- THE CONTRACTOR SHALL DETERMINE LOCATION OF UTILITY SERVICES IN THE AREA OF WORK PRIOR TO BEGINNING EXCAVATION.
- NOT USED.
- NOT USED.
- NOT USED.
- NOT USED.
- FACILITIES: THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SANITARY TOILET FACILITIES ON SITE FOR THE ENTIRE TIME THAT CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL MAINTAIN THE SITE, BUILDING(S) AND ADJACENT STREETS CLEAN AND FREE OF ACCUMULATION OF CONSTRUCTION DEBRIS.
- NOT USED.
- EMERGENCY VEHICLE ACCESS ROADS AND ON-SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING THE SITE WITH COMBUSTIBLE MATERIALS.

#### PROJECT DESCRIPTION

THE PROPOSED PROJECT CONSISTS OF A NEW, FOUR - COURT BEACH VOLLEYBALL FACILITY, A (1) PRE-CHECK DIGITAL SCOREBOARD, (1) PRE-CHECK SHADE STRUCTURE, AND ASSOCIATED SITE WORK AND FENCING.

#### DEFERRED SUBMITTALS

- N/A

#### EXEMPT ITEMS FROM SPECIAL INSPECTION

PLEASE REFER TO DSA 103 FORM. ITEMS EXEMPTED FROM SPECIAL INSPECTION ARE AS FOLLOWS:

- CONCRETE/MASONRY:
  - POST-INSTALLED ANCHORS FOR THE FOLLOWING: A) EXEMPT NON-STRUCTURAL COMPONENTS (E.G., MECHANICAL, ELECTRICAL, PLUMBING EQUIPMENT - SEE ITEM 7 FOR "WELDING" IN THE APPENDIX BELOW) GIVEN IN CBC SECTION 1617A.1.18 (WHICH REPLACES ASCE 7-16, SECTION 15.1.4 (OR B) INTERIOR NONSTRUCTURAL ALL PARTITIONS MEETING CRITERIA LISTED IN EXEMPT ITEM 3 FOR "WELDING" IN THE APPENDIX BELOW
- CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED FOR ITEMS GIVEN IN CBC SECTION 1705A.3.3.2 SUBJECT TO THE REQUIREMENTS AND LIMITATIONS IN THAT SECTION.
- EPOXY SHEAR DOWELS IN SITE FLATWORK AND/OR OTHER NON-STRUCTURAL CONCRETE.
- REINFORCING BAR TESTING FOR ITEMS LISTED IN AND COMPLYING WITH CBC SECTION 1910A.2.
- FREESTANDING SITE WALLS AND RETAINING WALLS PER DSA IR 21-1.

#### APPLICABLE CODES AND STANDARDS

**PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023:**  
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1  
2022 CALIFORNIA BUILDING CODE (CBC)  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2  
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)  
2022 CALIFORNIA ELECTRICAL CODE (CEC)  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3  
(2021 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)  
2022 CALIFORNIA MECHANICAL CODE (CMC)  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4  
(2021 APMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)  
2022 CALIFORNIA PLUMBING CODE (CPC)  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5  
(2021 APMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)  
2022 CALIFORNIA ENERGY CODE (CEC)  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6  
2022 CALIFORNIA FIRE CODE (CFC)  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 8  
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)  
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 10  
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)  
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11  
2022 CALIFORNIA REFERENCED STANDARDS CODE  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 12  
(PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS)  
2022 ASME A17.1/CSA B44-19 SAFETY CODE FOR ELEVATORS AND ESCALATORS  
(PER 2022 CBC PART 2 CH 35)  
CALIFORNIA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17-1 BY ADDITION

**PARTIAL LIST OF APPLICABLE STANDARDS**  
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80. SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

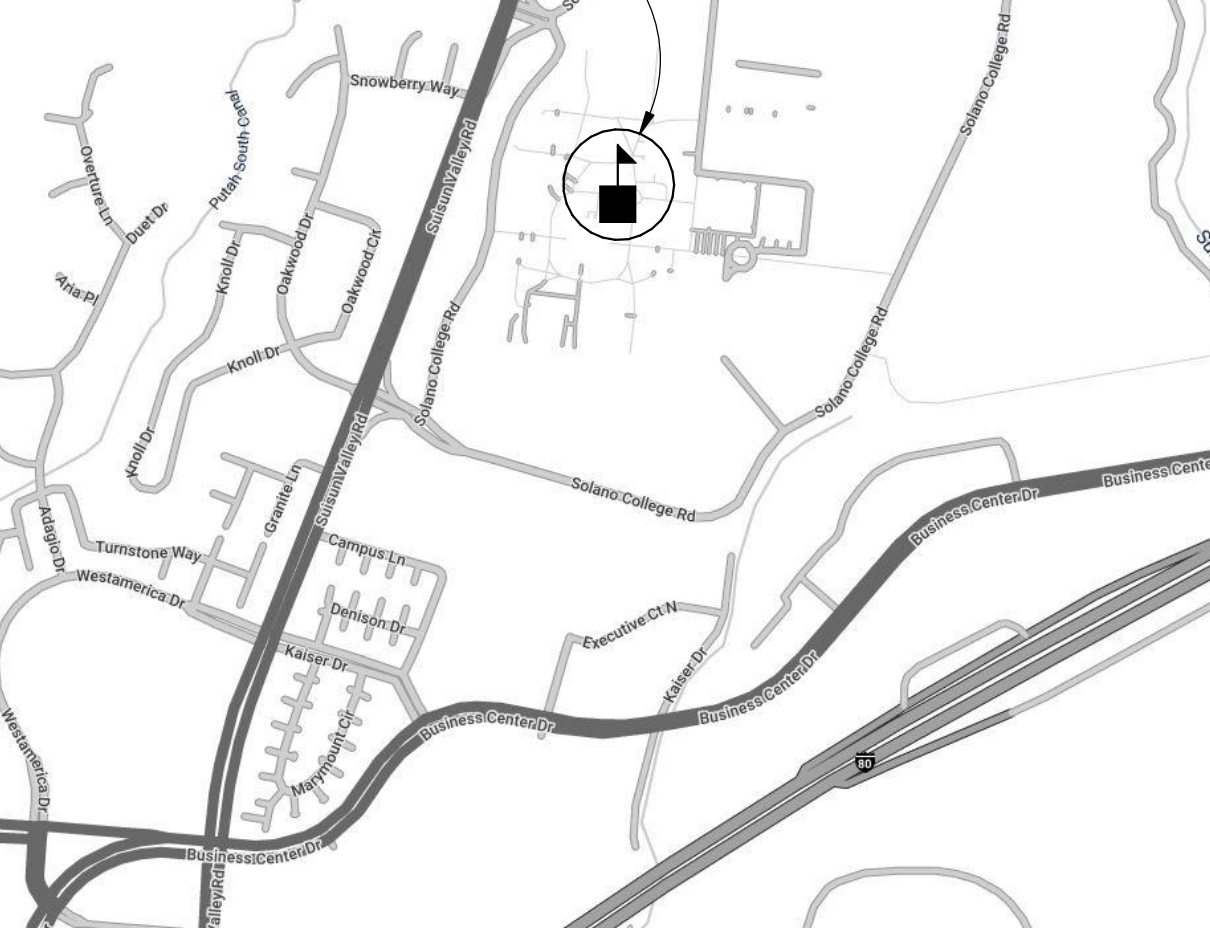
- NFPA 13-22 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS  
NFPA 14-19 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS  
NFPA 10-21 - STANDARD FOR PORTABLE FIRE EXTINGUISHERS  
NFPA 12-15 - STANDARD ON CARBON DIOXIDE EXTINGUISHING SYSTEMS  
NFPA 12A-18 - STANDARD ON HALON 1301 FIRE EXTINGUISHING SYSTEMS  
NFPA 13-22 - STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS (AS AMENDED)  
NFPA 17-21 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS  
NFPA 17A-21 - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS  
NFPA 20-19 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION  
NFPA 24-19 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (AS AMENDED)  
NFPA 72-22 - NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED)  
NFPA 80-19 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES  
UL 300-2005(R2010) - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT  
UL 464-03 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES  
UL 521-89 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS  
UL 1971-2002(R2010) - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED  
ICC 300-17 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS  
\*ALL PARTS OF THE 2022 TITLE 24 HAVE AN EFFECTIVE DATE OF JANUARY 1, 2023 EXCEPT:  
2022 CALIFORNIA ADMINISTRATIVE CODE - EFFECTIVE MARCH 5, 2022

#### SHEET INDEX

| SHEET #                                      | SHEET NAME   | REV # | DATE |
|--|--|-------|------|
| G-000  | COVER SHEET  |       |      |
| G-001  | TITLE SHEET  |       |      |
| G-101  | CODE SITE PLAN                                     |       |      |
| G-102  | LOCAL FIRE AUTHORITY PLAN                          |       |      |
| G-110  | ENLARGED CODE SITE PLAN                            |       |      |
| GENERAL SHEETS TOTAL: 5                      |  |       |      |
| 2. CIVIL ENGINEERING                         |  |       |      |
| C101   | TOPOGRAPHIC SURVEY                                 |       |      |
| C201   | DEMOLITION PLAN                                    |       |      |
| C301   | SITE PLAN  |       |      |
| C401   | HORIZONTAL CONTROL PLAN                            |       |      |
| C501   | GRADING PLAN                                       |       |      |
| C601   | UTILITY PLAN                                       |       |      |
| C701   | DETAILS  |       |      |
| C702   | DETAILS  |       |      |
| C703   | DETAILS  |       |      |
| CIVIL SHEETS TOTAL: 9                        |  |       |      |
| 3. LANDSCAPE ARCHITECTURE                    |  |       |      |
| L101   | IRRIGATION PLAN                                    |       |      |
| L102   | IRRIGATION DETAILS                                 |       |      |
| L103   | IRRIGATION DETAILS                                 |       |      |
| L201   | PLANTING PLAN                                      |       |      |
| L202   | PLANTING DETAILS                                   |       |      |
| LANDSCAPE ARCHITECTURE SHEETS TOTAL: 5       |  |       |      |
| 4. ARCHITECTURAL DRAWINGS                    |  |       |      |
| A-111  | SITE PLAN & DETAILS                                |       |      |
| A-112  | SITE PLAN & DETAILS                                |       |      |
| A-501  | ENLARGED RESTROOM                                  |       |      |
| A-923  | SIGNAGE DETAILS                                    |       |      |
| ARCHITECTURAL SHEETS TOTAL: 4                |  |       |      |
| 8. ELECTRICAL ENGINEERING                    |  |       |      |
| E000   | GENERAL INFORMATION                                |       |      |
| E100   | SITE PLAN OVERALL                                  |       |      |
| E800   | DETAILS  |       |      |
| ELECTRICAL SHEETS TOTAL: 3                   |  |       |      |
| 9. FABRIC SHADE STRUCTURE DSA P.C. 04-121917 |  |       |      |
| T-1.0  | TITLE SHEET  |       |      |
| T-2.0  | UNIT SELECTION                                     |       |      |
| T-3.0  | T&I FORMS  |       |      |
| 11.1-1000                                    | PRODUCT INFORMATION                                |       |      |
| 11.2-2000                                    | SPECIFICATIONS                                     |       |      |
| SHEETS TOTAL: 5                              |  |       |      |
| 10. SCOREBOARD DSA P.C. 04-122194            |  |       |      |
| SHEET1                                       | SCOREBOARD PC COVER SHEET                          |       |      |
| SHEET2                                       | DSA 103 SPECIAL INSPECTION FORM                    |       |      |
| SHEET3                                       | DSA 103 SPECIAL INSPECTION FORM (CONT.)            |       |      |
| SHEET4                                       | EQUIPMENT MOUNTING DETAILS (WITHOUT VIDEO DISPLAY) |       |      |
| SHEET9                                       | TWO-COLUMN STRUCTURE DETAILS WITH PIER FOUNDATIONS |       |      |
| SHEETS TOTAL: 5                              |  |       |      |
| OVERALL SHEET TOTAL: 36                      |  |       |      |

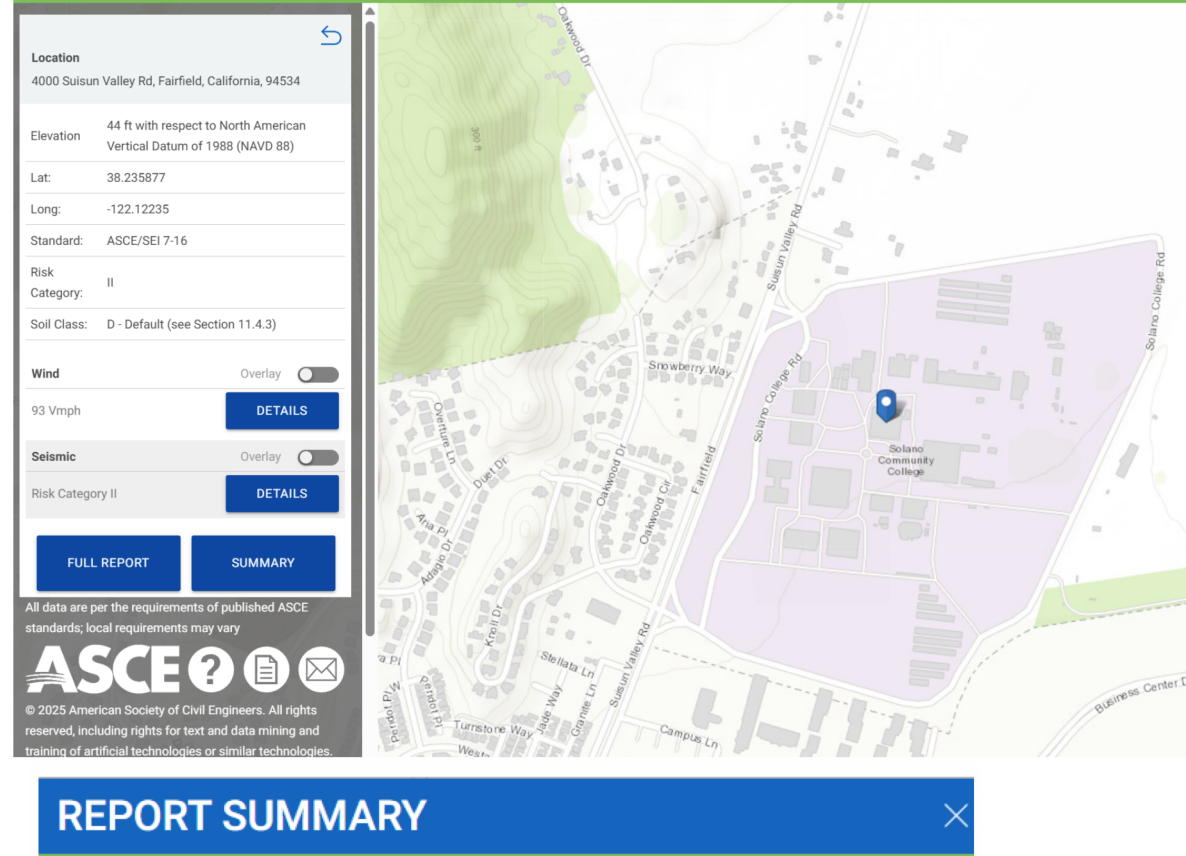
#### PROJECT LOCATION

SOLANO COMMUNITY COLLEGE



#### SITE DATA

##### ASCE HAZARD TOOL



##### REPORT SUMMARY

|                     |  |
|---------------------|--|
| Wind                |  |
| Wind Speed          | 93 Vmph  |
| 10-year MRI         | 64 Vmph  |
| 25-year MRI         | 70 Vmph  |
| 50-year MRI         | 75 Vmph  |
| 100-year MRI        | 79 Vmph  |
| Seismic             |  |
| S <sub>g</sub>      | 1.516  |
| S <sub>1</sub>      | 0.6  |
| F <sub>a</sub>      | 1.2  |
| F <sub>v</sub>      | N/A  |
| S <sub>MS</sub>     | 1.82   |
| S <sub>M1</sub>     | N/A  |
| S <sub>PS</sub>     | 1.213  |
| S <sub>P1</sub>     | N/A  |
| T <sub>l</sub>      | 8  |
| PGA                 | 0.602  |
| PGA <sub>adj</sub>  | 0.722  |
| F <sub>PGA</sub>    | 1.2  |
| I <sub>e</sub>      | 1  |
| C <sub>v</sub>      | 1.403  |
| NO SEISMIC SPECTRUM | Design and MCE <sub>a</sub> spectrum data not available for this location        |
| Note                | Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8. |

#### STATEMENT OF GENERAL CONFORMANCE

THE PG AUTHORIZED SHEETS LISTED BELOW ON THE SHEET INDEX OF THIS COVER HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:


- DESIGN INTENT, AND IT APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND COORDINATION WITH MY PLANS AND SPECIFICATIONS, AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17002 AND 81138 OF EDUCATION CODE, AND SECTIONS 4-336, 4-341 AND 4-334 OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317 (B))."

I FIND THAT: ☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET ☐ THIS DRAWING OR PAGE

☒ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND

☒ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

 10/23/2024  
DATE  
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE:  
Francis Chan  
PRINT NAME  
C-7519 12/31/25  
LICENSE NUMBER EXPIRATION DATE

AGENCY APPROVAL DSA# 02-122861

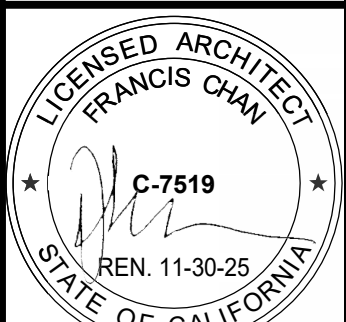
#### CONSULTANTS

CIVIL ENGINEER  
BLAIR, CHURCH & FLYNN  
451 CLOVIS AVENUE, SUITE 200  
CLOVIS, CA 93612  
TEL (559) 326-1400

LANDSCAPE ENGINEER  
BLAIR, CHURCH & FLYNN  
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TEL (559) 326-1400

ELECTRICAL ENGINEER  
ATLUM ENGINEERING  
3533 YORK LANE  
SAN RAMON, CA 94582  
TE (913) 961-1658

#### ARCHITECT STAMP



#### CONSULTANT STAMP

#### REVISIONS

| NO.      | DATE | DESCRIPTION   |
|----------|------|---------------|
| 05.13.25 |      | ISSUE FOR BID |
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PROJECT OWNER & TITLE  
**SOLANO COMMUNITY COLLEGE**  
4000 Suisun Valley Rd  
Fairfield, CA 94534

#### SAND VOLLEYBALL COMPLEX

4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE

#### TITLE SHEET

DRAWN BY: XX JOB NUMBER: 24056

SHEET NO.

# G-001

DATE: FEBRUARY 14, 2025

DSA BACKCHECK



FILE LOCATION: C:\Users\han\Documents\24056 - Solano CC Sand Volleyball Complex\_rhankl.MYC.rvt DATE PLOTTED: 2/19/2025 12:18:51 PM

| BUILDING INFORMATION |                             |                 |                        |
|----------------------|-----------------------------|-----------------|------------------------|
| BLDG                 | DESCRIPTION                 | BUILDING HEIGHT | BLDG. AREA ACTUAL UNIT |
|                      | NEW SHADE STRUCTURE         | 18'-0"          | 600 SF                 |
| A                    | HORTICULTURE                | 30'-0"          | 15,701 SF              |
| B                    | PERFORMING ARTS             | 29'-0"          | 25,251 SF              |
| C                    | FINE ARTS                   | 38'-0"          | 12,400 SF              |
| D                    | CAREER TECH EDU.            | 12'-0"          | 8,960 SF               |
| E                    | CAMPUS POLICE               | 12'-0"          | 24,610 SF              |
| F                    | WAREHOUSE / MAINTENANCE     | 29'-6"          | 10,730 SF              |
| G                    | SOFTBALL CLUBHOUSE          | 13'-0"          | 17,500 SF              |
| H                    | FACULTY OFFICES             | 13'-0"          | 2,447 SF               |
| I                    | NURSING / PUBLIC SERVICE    | 16'-6"          | 17,856 SF              |
| J                    | SOCIAL SCIENCES/ HUMANITIES | 16'-6"          | 16,864 SF              |
| K                    | LIBRARY / LEARNING CENTER   | 30'-0"          | 58,265 SF              |
| L                    | STUDENT CENTER/BOOKSTORE    | 23'-0"          | 30,976 SF              |
| M                    | POOL                        | 12'-0"          | 12,320 SF              |
| N-A                  | PHYSICAL EDUCATION          | 36'-0"          | 48,201 SF              |
| N-B                  | PHYSICAL EDUCATION          | 13'-0"          |                        |
| O                    | CENTRAL PLANT BUILDING      | 16'-6"          | 3,160 SF               |
| P                    | POOL EQUIPMENT BUILDING     | 10'-0"          | 3,500 SF               |
| Q                    | ADMINISTRATION & BUSINESS   | 16'-6"          | 13,056 SF              |
| R                    | COMPUTER SCIENCE            | 16'-6"          | 11,616 SF              |
| S                    | SCIENCE                     | 20'-0"          | 48,000 SF              |
| T                    | MATH / ENGINEERING          | 16'-6"          | 11,616 SF              |
| U                    | HOME EC / COSMETOLOGY       | 16'-6"          | 14,336 SF              |
| V                    | CHILDREN'S PROGRAM CENTER   | 26'-0"          | 9,562 SF               |
| W                    | SCIENCE                     | 20'-0"          | 24,240 SF              |
| X                    | STUDENT SERVICES            | 33'-0"          | 1,440 SF               |
| Y                    | (N) SHADE STRUCTURE         | 11'-6"          | 600 SF                 |

| PARKING LOT #E- ANALYSIS |                           |                        |                                |                                |                                    |
|--------------------------|---------------------------|------------------------|--------------------------------|--------------------------------|------------------------------------|
| PARKING LOT              | USER GROUP                | TOTAL NUMBER OF STALLS | NUMBER OF ACC. STALLS REQUIRED | NUMBER OF ACC. STALLS PROVIDED | NUMBER OF VAN ACC. STALLS REQUIRED |
| #E                       | VISITOR, STUDENT, FACULTY | 81                     | 4                              | 31                             | 1                                  |

#### LEGEND - SITE PLAN GENERAL NOTES

1. SEE ELECTRICAL AND CIVIL DRAWINGS FOR UTILITIES.

#### KEYNOTES

32.17 K TOW-AWAY SIGNAGE, PER DETAIL 5-(

#### LEGEND - SITE PLAN

--- ASSUMED PROPERTY LINE

--- LIMITS OF WORK

PROJECT

(E) BUILDING

(E) LANDSCAPING

(E) LANDSCAPING

(E) LANDSCAPING

#### PATH OF TRAVEL (P.O.T.)

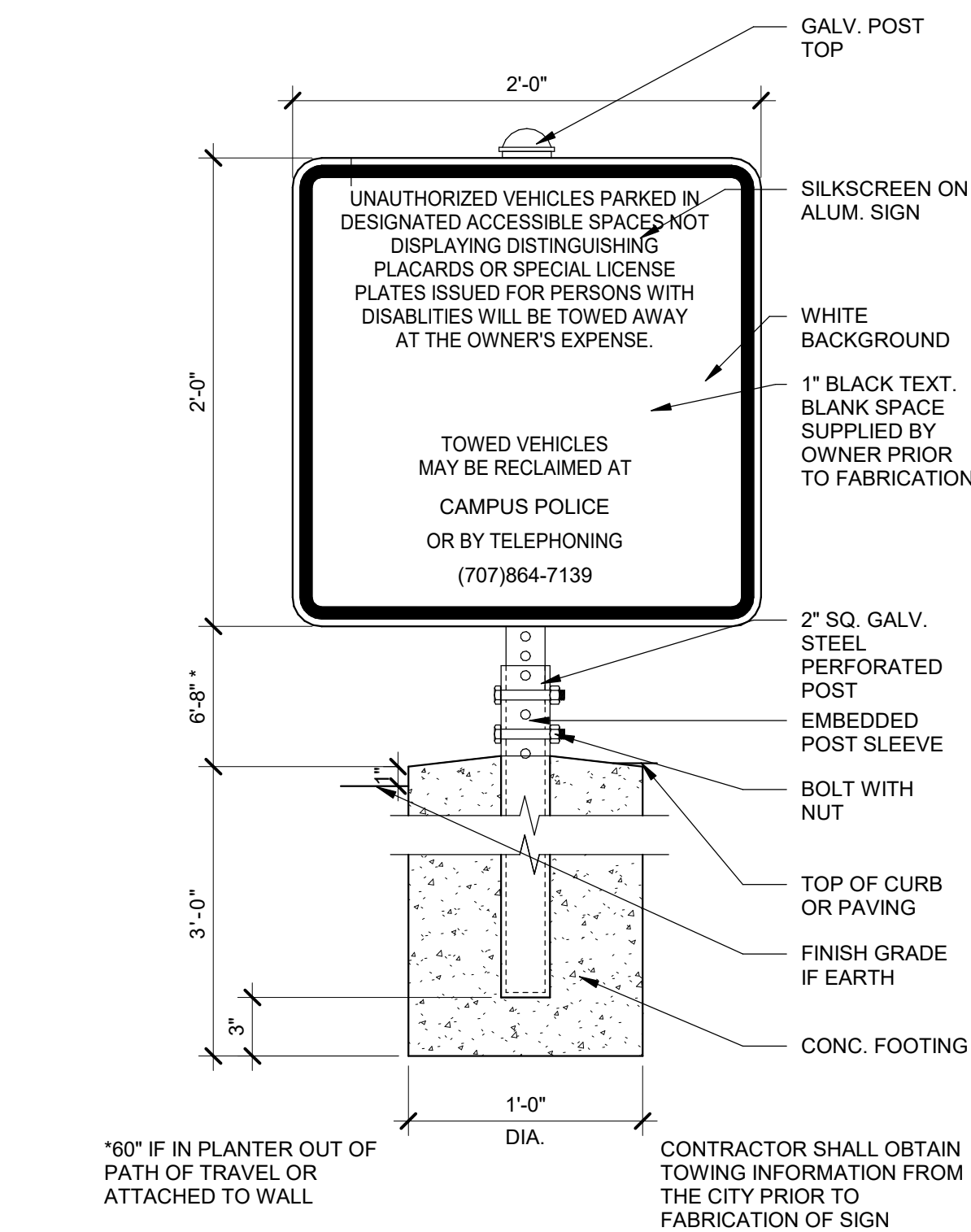
- THE PATH OF TRAVEL, AS INDICATED, IS A COMMON BARRIER FREE ACCESS ROUTE.
- IS AT LEAST 48" WIDE.
- NO ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE. EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL.
- THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH.
- PASSING SPACES (11B-403.2) AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART.
- PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART.
- THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
- P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307).

X-X-X-X (E) FENCE LINE

FH (E) FIRE HYDRANT

T (E) TOW-AWAY SIGN

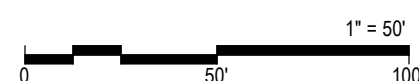
DF (N) ACCESSIBLE DRINKING FOUNTAIN (ALL GROUP)



DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PROJECT NORTH



SITE PLAN - OVERALL

1" = 160'-0"

10

(N) TOW AWAY SIGNAGE

1/4" = 1'-0"

5

#### CONSULTANTS

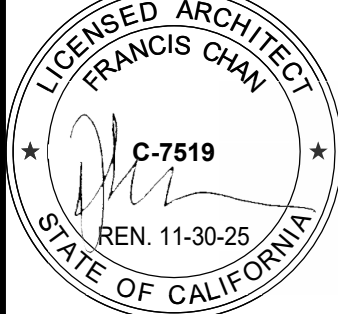
CIVIL ENGINEER  
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ATUM ENGINEERING  
3533 YORK LANE  
SAN RAMON, CA 94582  
TE (913)961-1658

ARCHITECT STAMP

CONSULTANT STAMP



#### REVISIONS

| NO. | DATE     | DESCRIPTION   |
|-----|----------|---------------|
| 1   | 05.13.25 | ISSUE FOR BID |
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#### PROJECT OWNER & TITLE

**SOLANO COMMUNITY COLLEGE**  
4000 Suisun Valley Rd  
Fairfield, CA 94534

#### SAND VOLLEYBALL COMPLEX

4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE

#### CODE SITE PLAN

DRAWN BY: XX

JOB NUMBER: 24056

SHEET NO.

**G-101**

DATE: FEBRUARY 14, 2025

DSA BACKCHECK



DATE PLOTTED: 2/19/2025 12:18:51 PM FILE LOCATION: C:\Users\martin\Documents\24056 - Solano CC Sand Volleyball Complex\_martin\NZ37.rvt



810

### FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for project review and approval:

1. Complete and accurate site plan, including all existing and proposed buildings, parking areas, and other site features.

2. Complete and accurate site plan, including all existing and proposed buildings, parking areas, and other site features.

3. Complete and accurate site plan, including all existing and proposed buildings, parking areas, and other site features.

**PROJECT INFORMATION**

Submitted to: Solano Community College District

Project Name: Solano Community College

Project Address: 4000 Suisun Valley Rd., Fairfield, CA 94534

| FIRE & LIFE SAFETY INFORMATION   |                                   |                               |                                    |
|--|-----------------------------------|-------------------------------|------------------------------------|
| 1. Has a fire hydrant flow test been performed within the past 12 months?  | Yes <input type="checkbox"/>      | No <input type="checkbox"/>   |                                    |
| 2. Was the fire hydrant flow test performed as part of this LFA review?  | Yes <input type="checkbox"/>      | No <input type="checkbox"/>   |                                    |
| 3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by the State Fire Marshal (SFM)? | Yes <input type="checkbox"/>      | No <input type="checkbox"/>   |                                    |
| 4. Refer to the following website for FHSZ locations: <a href="https://www.fire.ca.gov/">https://www.fire.ca.gov/</a>          | Moderate <input type="checkbox"/> | High <input type="checkbox"/> | Very High <input type="checkbox"/> |
| 5. Will the project be located within a fire hazard severity zone (FHSZ) as established by the State Fire Marshal (SFM)?       | Yes <input type="checkbox"/>      | No <input type="checkbox"/>   |                                    |

DSO DSA 01/1/2020 (2/2020) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES PAGE 1 OF 1 STATE OF CALIFORNIA

### DSA 910 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

| CONDITION MEANS AND METHODS RESOLUTION   |  | ALTERNATE ACCEPTED |    |    |    |
|--|--|--------------------|----|----|----|
|  |  | YES                | NO | NO | NO |
| 1. Emergency vehicle access roadways do not meet CFC requirements.   |  |                    |    |    |    |
| 2. Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.                 |  |                    |    |    |    |
| 3. Fire Hydrants: Number and spacing does not meet CFC requirements.   |  |                    |    |    |    |
| 4. Acceptable Alternate: Number of hydrants and spacing as proposed by the project architect is acceptable for the suppression and protection of life and property.                                    |  |                    |    |    |    |
| 5. Fire Hydrants: Water flow and pressure are less than CFC minimum.   |  |                    |    |    |    |
| 6. Acceptable Alternate: The available flow and pressure is acceptable for providing the suppression and protection of life and property.  |  |                    |    |    |    |
| 7. Location of fire department connections serving the sprinkler systems or standpipe systems does not meet CFC requirements.  |  |                    |    |    |    |
| 8. Acceptable Alternate: The location of the department connection serving the sprinkler systems or standpipe systems is acceptable for providing the suppression and protection of life and property. |  |                    |    |    |    |

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) requirements, as indicated by one or more of the conditions indicated at items 1a, 2a, 3a, 4a, 5a, 6a, 7a, or 8a, for providing fire and life safety protection of life and property.

Accepted by: \_\_\_\_\_ Date: \_\_\_\_\_

**LOCAL FIRE AUTHORITY (LFA) INFORMATION**

LFA Agency Name: \_\_\_\_\_

LFA Review Official: \_\_\_\_\_

Title: \_\_\_\_\_

Work Email: \_\_\_\_\_

LFA Reviewer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

DSO DSA 01/1/2020 (2/2020) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES PAGE 1 OF 1 STATE OF CALIFORNIA



Bay Cities PyrotecTOR Fire Protection Services Inc. CA 94534

Property Name: Solano Community College

Address: 4000 Suisun Valley Road Fairfield, CA 94534

Hydrant Location: See map location

Water Supply: City Water

Test Hydrant # 12

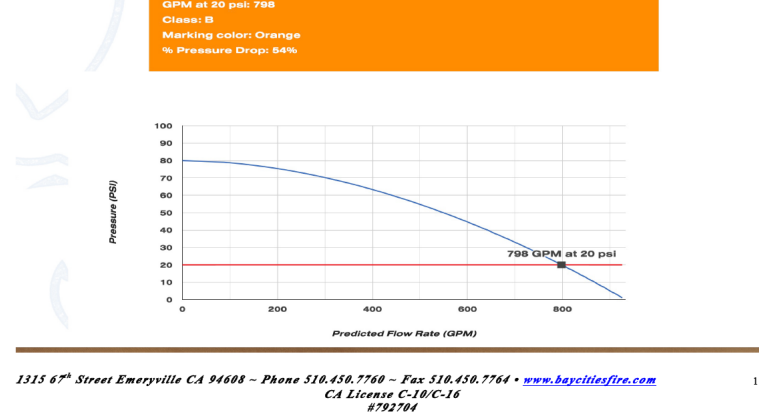
Flow Time: 1 minute

Purpose of Test: M

Static Pressure (PSI): 80

Residual Pressure (PSI): 37

Total Test Flow Rate (GPM): 667



### KEYNOTES

27.15.A (E) WALL MOUNTED JUNCTION BOX "FA" FOR FIRE ALARM, PER DSA # 02-106610

### LEGEND - LOCAL FIRE AUTHORITY PLAN

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- PROJECT
- (E) BUILDING
- (E) LANDSCAPING
- SAFE DISPENSAL AREA
- FIRE ACCESS ROUTE
- (E) FENCE LINE
- (E) FIRE HYDRANT
- EXIT DISCHARGE PATH
- (E) LIGHT POLE
- (E) SITE LIGHTING

### SAFE DISPENSAL AREA

OCCUPANCY CALCULATION SEE SHEET G-110

TOTAL : 889 OCCUPANTS

SAFE DISPENSAL AREA CALCULATION (PER CBC 1028.5, 5 SF PER OCCUPANT):

REQUIRED SAFE DISPENSAL AREA: 889 OCCUPANTS x 5 SF = 4,445 SF  
AREA PROVIDED: 4750 SF = OK

AGENCY APPROVAL DSA# 02-122861

19.6

185 CLARA STREET, SUITE 101A  
SAN FRANCISCO, CA 94107  
TEL 628.212.9200

### CONSULTANTS

CIVIL ENGINEER  
BLAIR, CHURCH & FLYNN  
451 CLOVIS AVENUE, SUITE 200  
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3533 YORK LANE  
SAN RAMON, CA 94582  
TE (913) 961-1658

### ARCHITECT STAMP



### CONSULTANT STAMP

### REVISIONS

| NO. | DATE     | DESCRIPTION   |
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PROJECT OWNER & TITLE  
**SOLANO COMMUNITY COLLEGE**  
4000 Suisun Valley Rd  
Fairfield, CA 94534

**SAND VOLLEYBALL COMPLEX**  
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE

**LOCAL FIRE AUTHORITY PLAN**

DRAWN BY: XX JOB NUMBER: 24056

SHEET NO.

**G-102**

DATE: FEBRUARY 14, 2025

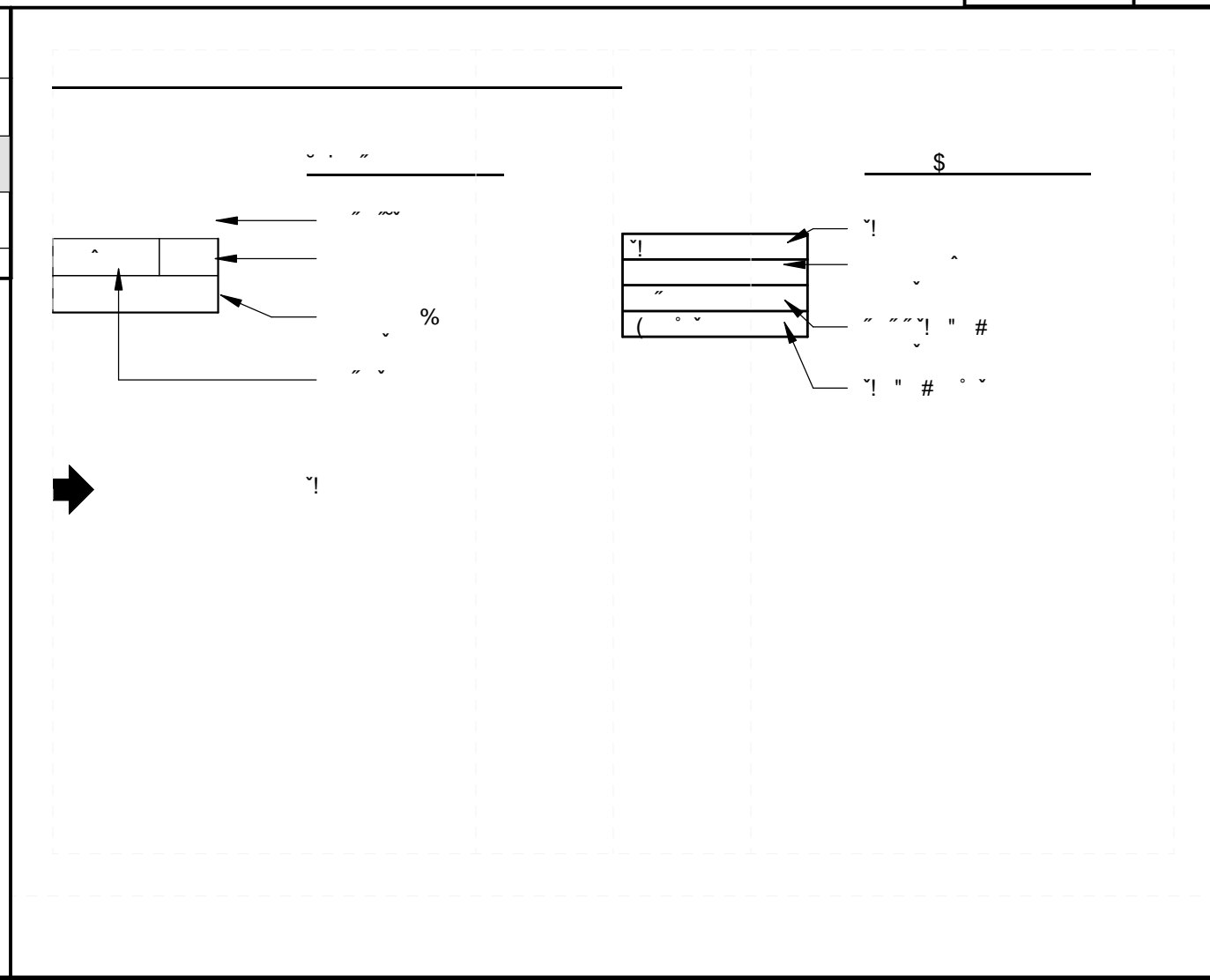
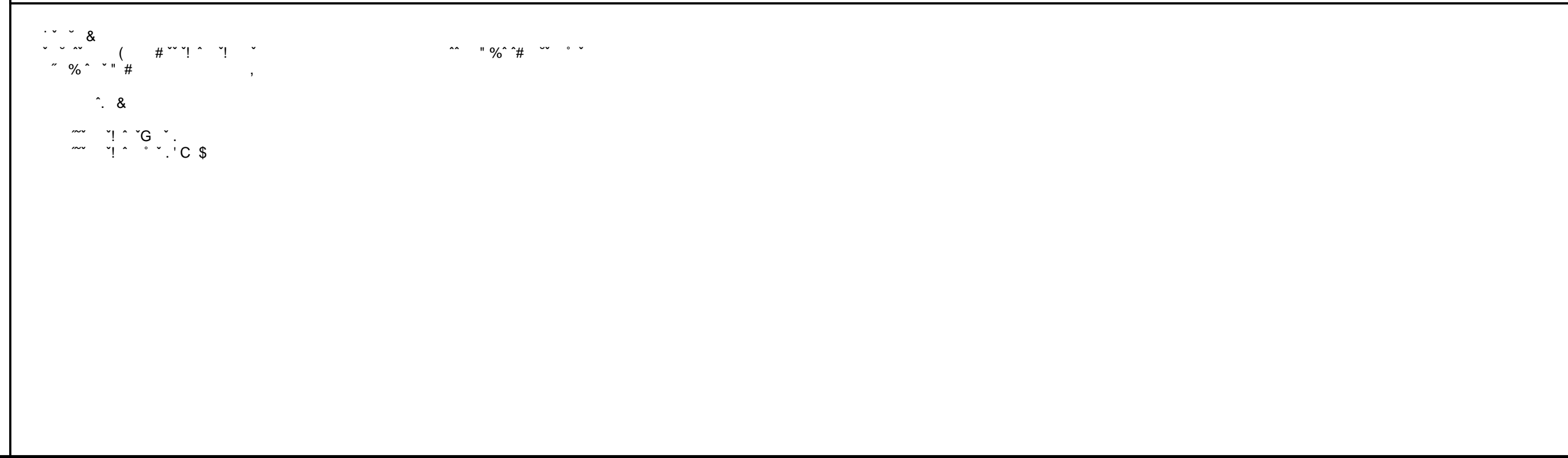
SITE PLAN - OVERALL FIRE ACCESS PLAN

1" = 160'-0"

1

DSA BACKCHECK

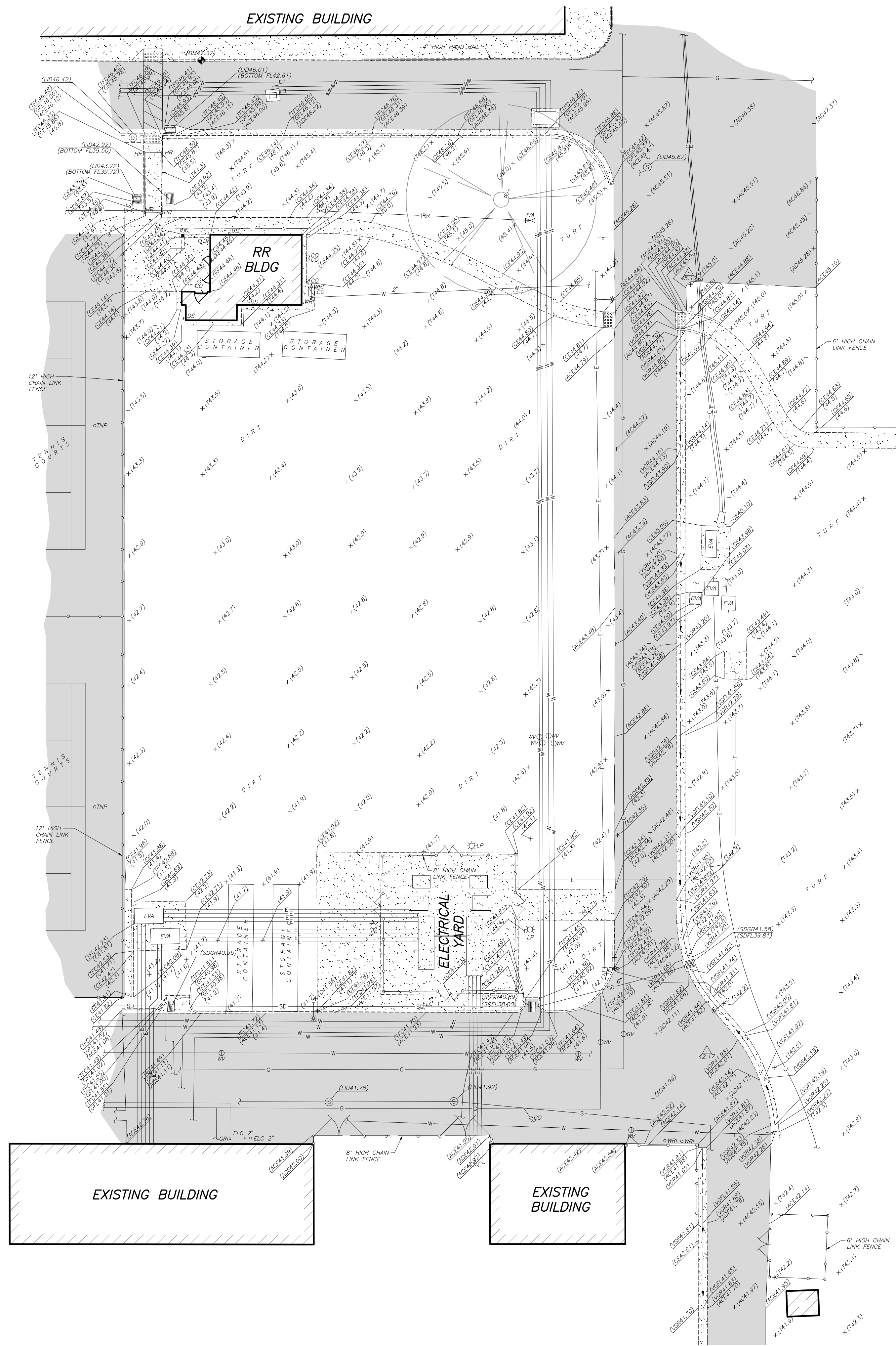




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TOPOGRAPHIC SURVEY LEGEND:

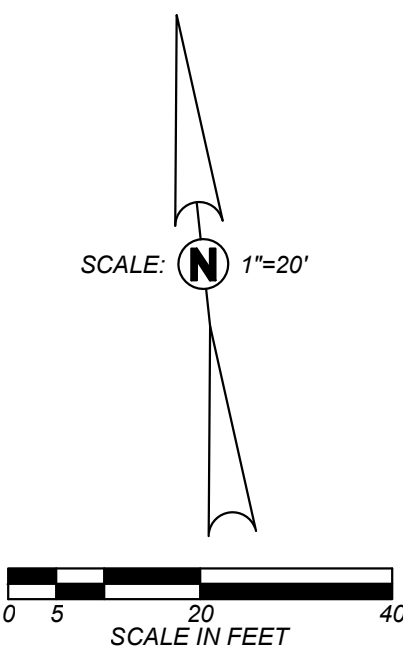
- (41.82) EXISTING ELEVATION
- AC ASPHALTIC CONCRETE
- ACE ASPHALTIC CONCRETE EDGE
- C CONCRETE
- CE CONCRETE EDGE
- CVA COMMUNICATION VAULT
- CW CONCRETE WALL
- EVA ELECTRICAL VAULT
- FF FINISH FLOOR
- GB GRADE BREAK
- GFL GUTTER FLOWLINE
- LD UTILITY LID
- SDGR STORM DRAIN GRATE
- SDFL STORM DRAIN FLOW LINE
- T TURF
- TFC TOP FACE OF CURB
- VGR VALLEY GUTTER
- BA BACKFLOW ASSEMBLY
- BM-BENCHMARK, OR SBM-SITE BENCHMARK
- CO CLEANOUT
- DF SURVEY CONTROL MONUMENT
- DR DRINKING FOUNTAIN
- DO DOOR/GATE
- DS DOWNSPOUT
- ELC ELECTRICAL CONDUIT
- ELFR ELECTRICAL PULLBOX
- GR GAS RISER
- GV GAS VALVE
- HR HANDRAIL
- LP LIGHT POLE
- RS ROOF SUPPORT
- TM TENNIS NET POLE
- DM STORM DRAIN MANHOLE
- SG SIGN
- SL STREET LIGHT
- SM SEWER MANHOLE
- TR TREE: SPREAD SHOWN GRAPHICALLY AND TRUNK DIAMETER AS SHOWN
- WM WATER METER
- WR WATER RISER
- WV WATER VALVE
- AP ASPHALT PAVEMENT
- B BUILDING
- LC LIMITS OF CONCRETE
- DW DETECTABLE WARNINGS
- CL CHAIN LINK FENCE
- EA EDGE OF ASPHALT PAVEMENT
- DF DIRECTION OF FLOW
- UE UNDERGROUND ELECTRIC
- GL GAS LINE, SIZE AS NOTED
- SD 6" STORM DRAIN LINE, SIZE AS NOTED
- S 12" SEWER LINE, SIZE AS NOTED
- W 4" WATER LINE, SIZE AS NOTED
- C COMMUNICATION LINE

SITE BENCHMARK:

CHISELED "X" ON TOP OF CURB APPROXIMATELY 55% NORTH OF THE NORTHWEST CORNER OF THE EXISTING RESTROOM BUILDING.  
ELEV. = 47.37 NAVD88 DATUM

SURVEY NOTES:

- THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON MAY 30, 2024.
- UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES. PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY, THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.



Know what's below.  
Call before you dig.

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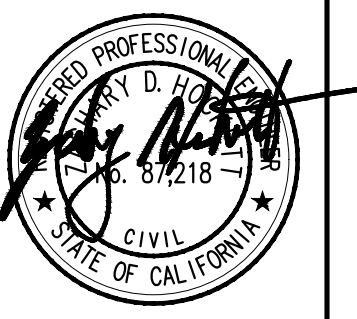
CONSULTANTS

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PROJECT OWNER & TITLE

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4000 Suisun Valley Rd, Fairfield  
Fairfield, CA 94534

**SAND VOLLEYBALL COMPLEX**  
4000 Suisun Valley Rd, Fairfield,  
CA 94534

SHEET TITLE  
**TOPOGRAPHIC SURVEY**

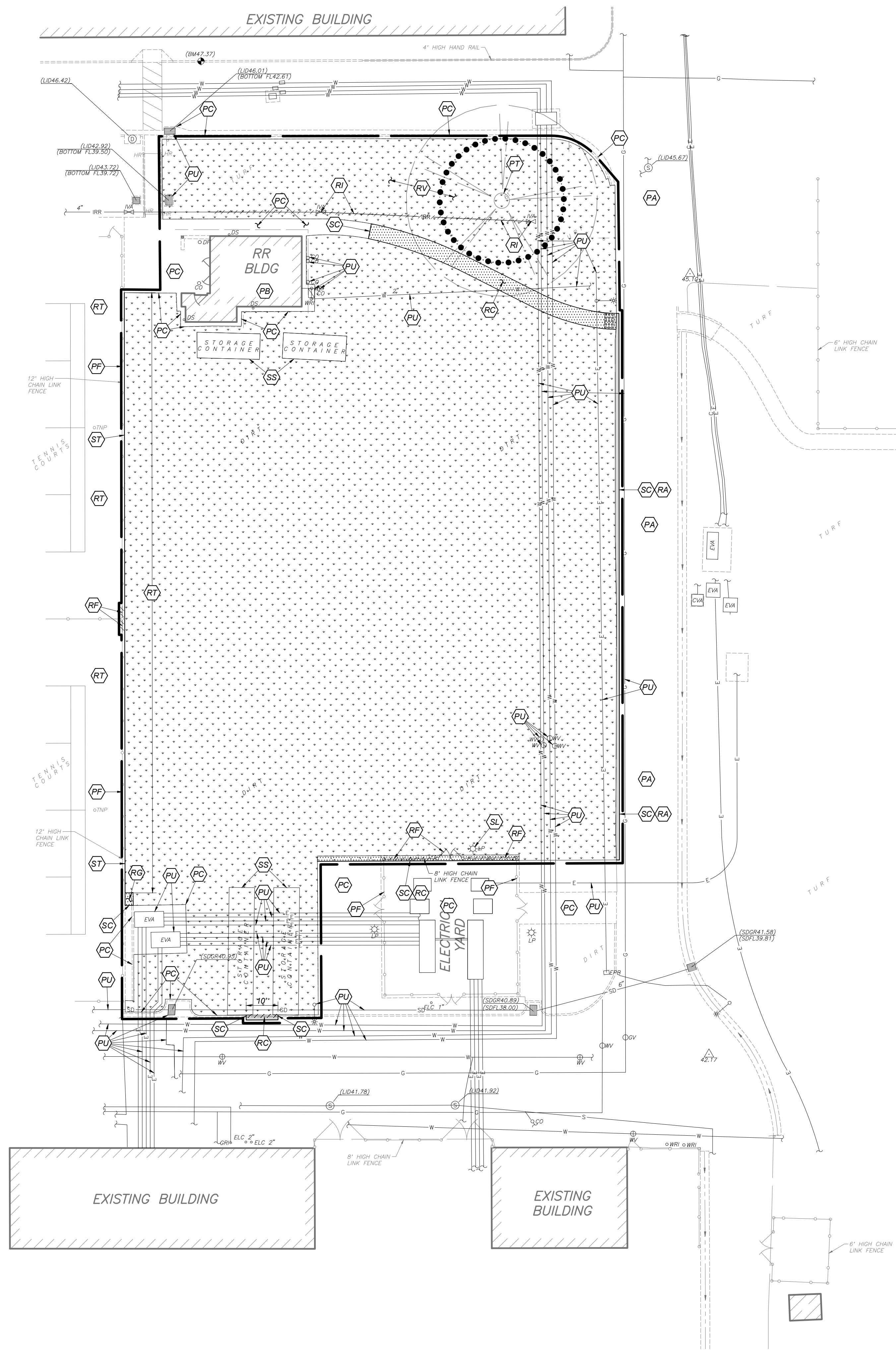
DRAWN BY: TJ JOB NUMBER: 24056

SHEET NO.

**C101**

DATE: FEBRUARY 10, 2025



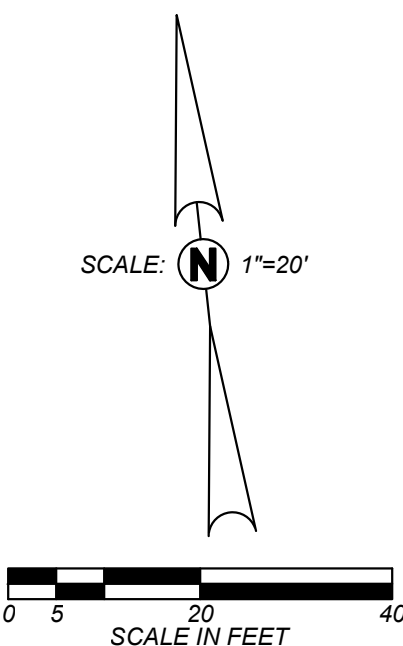


DEMOLITION LEGEND:

- REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS. THE REMOVAL OF IMPROVEMENTS MUST BE COORDINATED WITH ALL PLAN SHEETS. CONTRACTOR MUST ALSO COORDINATE REMOVAL OF IMPROVEMENTS WITH UTILITY AGENCIES. PROTECT ALL IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. SEE NOTE 1
- LIMITS OF VEGETATION REMOVAL 4" MINIMUM DEPTH
- LIMITS OF ASPHALTIC CONCRETE IMPROVEMENT REMOVAL
- APPROXIMATE LIMITS OF TREE PROTECTION ZONE (TPZ) PER THE PROJECT SPECIFICATIONS. SEE NOTE 12
- PROTECT ASPHALT CONCRETE PAVEMENT TO REMAIN
- PROTECT BUILDING TO REMAIN
- PROTECT CONCRETE IMPROVEMENTS TO REMAIN
- PROTECT FENCE TO REMAIN
- PROTECT TREE TO REMAIN
- PROTECT UTILITY TO REMAIN
- REMOVE ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION
- REMOVE CONCRETE IMPROVEMENTS
- REMOVE CHAIN LINK FENCE FABRIC, POSTS AND FOOTINGS
- REMOVE CONCRETE CONCRETE CURB AND GUTTER SECTION
- ABANDON EXISTING TRANSITE IRRIGATION MAIN LINE IN PLACE. SALVAGE EXISTING CONCRETE IRRIGATION VALVE BOXES AND EQUIPMENT TO OWNER
- SAWCUT A STRAIGHT LINE ALONG THE EDGE OF THE EXISTING FENCE, AS CLOSE AS POSSIBLE TO THE FENCE POSTS AND REMOVE EXCESS ASPHALT
- REMOVE VEGETATION
- SAWCUT
- SALVAGE SIGHT LIGHT TO BE RELOCATED
- SALVAGE EXISTING STORAGE CONTAINERS AND RELOCATE THEM TO A SPOT ON CAMPUS THAT IS IDENTIFIED BY THE CAMPUS FACILITY MANAGEMENT TEAM
- SAWCUT ALONG THE EDGE OF THE ASPHALT TENNIS COURT TO REMOVE LOOSE AND DETORATING ASPHALT FOR A CLEAN EDGE TO MATCH THE PROPOSED SIDEWALK TO
- LIMIT OF CONCRETE CURB REMOVAL
- LIMIT OF CHAIN LINK FENCE REMOVAL
- LIMIT OF IRRIGATION MAIN LINE REMOVAL / ABANDONMENT
- LIMIT OF IRRIGATION LATERAL LINE REMOVAL / ABANDONMENT

GENERAL DEMOLITION NOTES:

- THE "LIMIT OF DEMOLITION" SHOWN IS APPROXIMATE AND IS GENERALLY CONSIDERED TO BE THE MINIMUM REMOVAL REQUIREMENTS. CONTRACTOR MUST COORDINATE AS NOTED IN THE LEGEND.
- CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT SPECIFICALLY DESIGNATED FOR REMOVAL.
- THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT APPROXIMATE LOCATIONS. THE EXTENT, LOCATIONS AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POthOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.
- CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A CALIFORNIA LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY, AT CONTRACTOR'S EXPENSE.
- ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.
- CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY AGENCIES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
- ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
- REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS.
  - FOR CONCRETE REMOVAL, REMOVE TO THE NEXT NEAREST TOoled JOINT OR EXPANSION JOINT OF IMPROVEMENTS DESIGNATED TO REMAIN.
  - FOR ASPHALTIC PAVEMENT REMOVAL SAWCUT TO A STRAIGHT, CLEAN EDGE AT LOCATIONS INDICATED ON THE PLANS.
- REFER TO ELECTRICAL, IRRIGATION AND ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION AND COORDINATION.
- COMPLIANCE WITH FIRE SAFETY DURING CONSTRUCTION WILL BE ENFORCED.
- CONTRACTOR SHALL PROVIDE A TREE PROTECTION ZONE FOR ALL TREES THAT ARE TO REMAIN WITHIN THE PROJECT BOUNDARY. THE TREE PROTECTION ZONE SHALL BE ADJUSTED AS APPROPRIATE FOR THE COMPLETION OF THE WORK BUT AT NO TIME SHALL IT BE LESS THAN REQUIRED BY THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL PROVIDE AN ARBORIST REPORT TO THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO COMMENCEMENT OF DEMOLITION WORK ON THE SITE PER THE PROJECT SPECIFICATIONS.



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196

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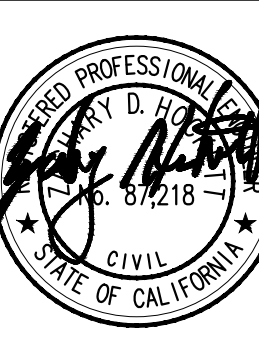
CONSULTANTS

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4000 Suisun Valley Rd, Fairfield  
Fairfield, CA 94534

**SAND VOLLEYBALL COMPLEX**  
4000 Suisun Valley Rd, Fairfield,  
CA 94534

SHEET TITLE

**DEMOLITION PLAN**

DRAWN BY: TJ

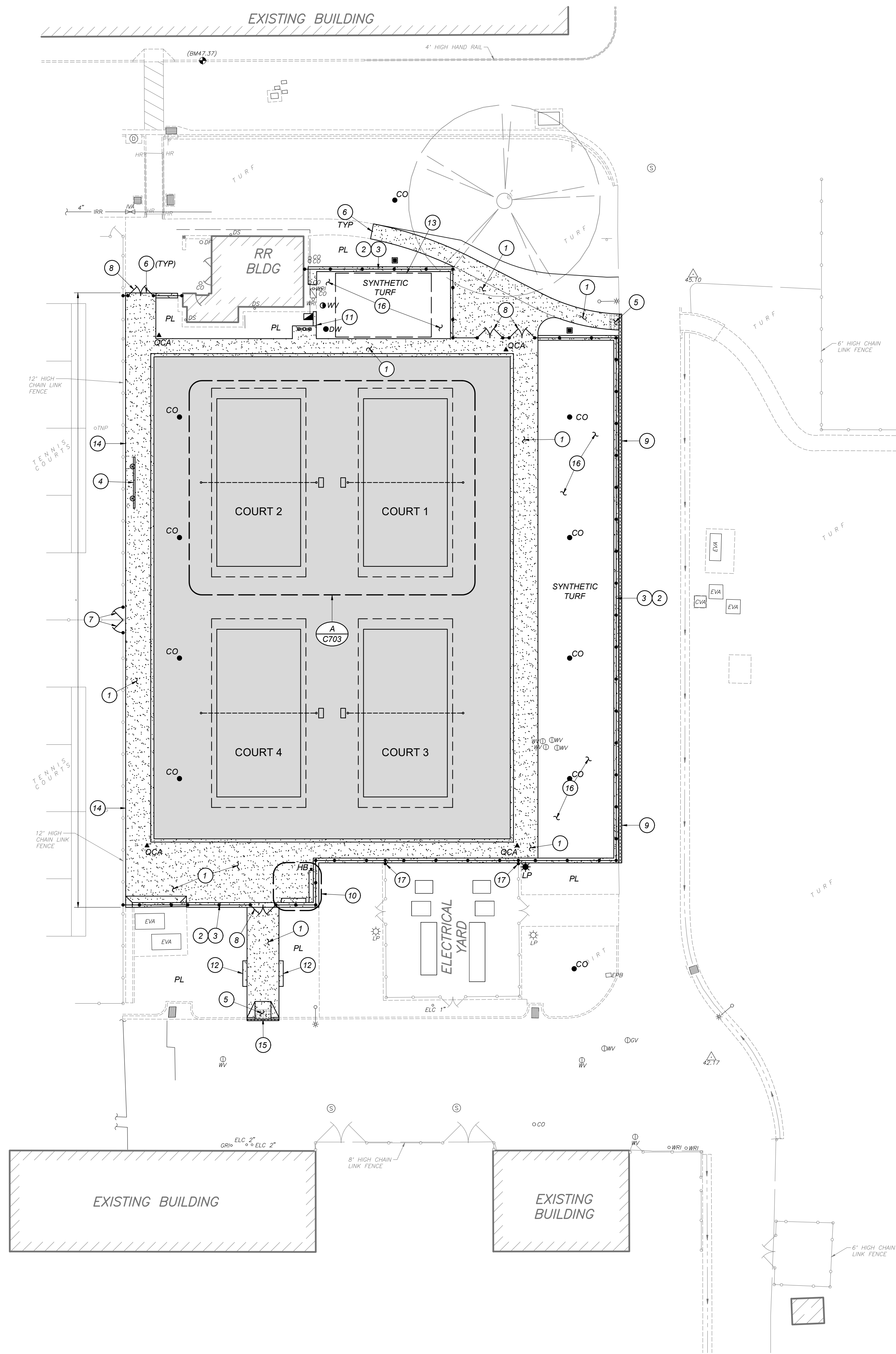
JOB NUMBER: 24056

SHEET NO.

**C201**

DATE: FEBRUARY 10, 2025





SITE LEGEND:

- DETAIL DESIGNATION  
DETAIL REFERENCE  
SHEET LOCATION
- [A/C701] [DETAIL DESIGNATION / SHEET LOCATION]
- LIMITS OF CONCRETE IMPROVEMENTS
- LIMITS OF ASPHALT PLUG IMPROVEMENTS
- LIMITS OF BEACH VOLLEYBALL COURT SAND BASE
- CHAIN LINK FENCING PER THE ARCHITECTURAL PLANS
- NEW CHAIN LINK GATES PER THE ARCHITECTURAL PLANS. SEE HORIZONTAL CONTROL PLAN FOR WIDTH, HEIGHT TO MATCH ADJACENT FENCE UNLESS NOTED OTHERWISE
- CLEANOUT, SEE GRADING PLAN
- DRINKING FOUNTAIN, SEE UTILITY PLAN
- DRYWELL, SEE UTILITY PLAN
- RELOCATED SITE LIGHT POLE, SEE ELECTRICAL PLANS
- QUICK COUPLER, SEE UTILITY PLAN
- WATER VALVE, SEE UTILITY PLANS
- PLANTER, SEE PLANTING PLANS
- CONCRETE WALK PER DETAIL [A/C701]
- CONCRETE FENCE MOWSTRIP, REFER TO ARCHITECTURAL PLANS
- CHAIN LINK FENCING, SEE ARCHITECTURAL PLANS
- ELECTRICAL AND LIGHTING CONTROL PANELS AND BACKBOARD PER ELECTRICAL PLANS
- DETECTABLE WARNING SURFACE PER DETAIL [H/C701]
- DOWEL PROPOSED CONCRETE TO EXISTING CONCRETE PER DETAIL [C/C701]
- SINGLE SWING GATE, SEE ARCHITECTURAL PLANS
- DOUBLE SWING GATE, SEE ARCHITECTURAL PLANS
- ASPHALT PLUG PER DETAIL [D/C701]
- WASH-DOWN AREA, SEE ENLARGEMENT DETAIL [E/C701]
- CONCRETE MOWSTRIP PER DETAIL [B/C701]
- 8' LONG CONCRETE SEAT WALL PER DETAIL [F/C701]
- 20' x 30' SHADE STRUCTURE, SEE ARCHITECTURAL PLANS
- FINISH CONCRETE SIDEWALK FLUSH WITH ASPHALT TENNIS COURT PAVING TO PROVIDE A SMOOTH TRANSITION AND CONTINUATION OF EXISTING DRAINAGE PATTERN
- CONCRETE CURB RAMP PER DETAIL [G/C701]
- SYNTHETIC TURF, BLUE, CORK INFILL, PER DETAIL [H/C703]
- PROVIDE NEW FENCE END-POST FOR EXISTING FENCE

BID ALTERNATE SCHEDULE:

- PRE-CHECK SHADE STRUCTURE
- PRE-CHECK DIGITAL SCOREBOARD
- UNDERGROUND RACEWAYS FOR FUTURE SITE LIGHTING

SPECIFICATIONS:

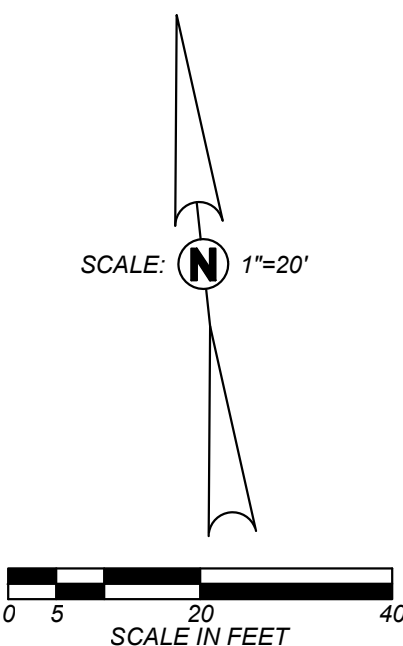
CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS BOOK AND THE SOLANO COMMUNITY COLLEGE STANDARD SPECIFICATIONS AND DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN THE SPECIFICATIONS BOOK AND THE SCC STANDARD SPECIFICATIONS AND DRAWINGS, THE CONTRACTOR SHALL BRING THE DISCREPANCY TO THE ATTENTION OF THE DESIGN TEAM.

GENERAL SITE NOTES:

- ALL CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A/C701]
- INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [C/C701]
- NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
- ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.
- ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.
- 2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA), CALL 1-800-442-2444
- ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE
- ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [B/C702]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICULAR AREAS.

CAST-IN-PLACE CONCRETE NOTES:

- ALL CAST-IN-PLACE CONCRETE SHALL BE PROVIDED TO THE FOLLOWING STANDARDS:
  - CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS, LATEST EDITION
  - ACI 304, 305, 306, 308, 309, 318, AND 347
  - ASTM C-33, C-39, C-94, C-136, C-143, C-150, AND C-309
  - SOLANO COMMUNITY COLLEGE DISTRICT STANDARD 32 12 33 AND 32 32 13
- SUBMIT PROPOSED CONCRETE MIX, POUR PLAN, AND CURING METHODOLOGY TO THE ENGINEER ON RECORD FOR REVIEW AT LEAST 7 DAYS PRIOR TO CONCRETE DELIVERY. SUBMIT LOAD TAGS FOR DELIVERED MATERIAL
- CONCRETE CYLINDER STRENGTH TESTING SHALL BE COMPLETED AT A RATE OF ONE SET OF CYLINDERS FOR EVERY 10 CUBIC YARDS OF PLACED CONCRETE
- CONCRETE MIX DESIGN AND PROPORTIONS SHALL BE IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS
  - MIX DESIGNS WITH FLY ASH CONTENT NO GREATER THAN 15 PERCENT OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS SHALL BE PROPORTIONED PER THE CALTRANS STANDARD SPECIFICATIONS
  - PROVIDE A MAXIMUM OF 4.5 PERCENT AIR ENTRAINMENT, UNLESS NOTED OTHERWISE
  - ALL CONCRETE USED FOR SEATWALLS SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS
    - STRENGTH: 4,000 PSI AT 28 DAYS
    - MAXIMUM AGGREGATE SIZE: 1-INCH
    - CEMENT TYPE: TYPE II
    - CEMENT CONTENT: 6.5 SACKS/YD MINIMUM
    - MAXIMUM WATER/CEMENT RATIO: 0.44 (NON-AIR-ENTRAINED) 0.35 (AIR-ENTRAINED)
    - ADMIXTURE: PER CALTRANS STD SPEC
  - ALL CONCRETE USED FOR SITE FLATWORK SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS
    - STRENGTH: 3,000 PSI AT 28 DAYS
    - MAXIMUM AGGREGATE SIZE: 3/4-INCH
    - CEMENT TYPE: TYPE II
    - CEMENT CONTENT: 5.5 SACKS/YD MINIMUM
    - MAXIMUM WATER/CEMENT RATIO: 0.50
    - ADMIXTURE: PER CALTRANS STD SPEC
  - SAND-CEMENT SLURRY USED FOR EARTHWORK/TRENCH BACKFILL SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS
    - MAXIMUM AGGREGATE SIZE: 3/8-INCH
    - CEMENT TYPE: TYPE II
    - CEMENT CONTENT: 2.0 SACKS/YD MINIMUM
- CONCRETE SHALL BE PLACED TO GRADES AND LINES WITHIN 1/8" TOLERANCE OF DESIGN
- CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEPARATION OF AGGREGATES; MAXIMUM UNCONFINED DROP OF CONCRETE SHALL NOT EXCEED FIVE (5) FEET
- CONCRETE SHALL BE VIBRATED WITH A GRID OF METAL BARS; TIME OF VIBRATION SHALL ENSURE THAT ALL AIR VOIDS ARE ELIMINATED BUT SHALL BE LIMITED TO PREVENT AGGREGATE FROM FALLING OUT OF SUSPENSION
- CONCRETE SHALL BE WETTED AND CURED IN ACCORDANCE WITH ACI STANDARDS
- WHERE CONCRETE IS BEING INSTALLED ADJACENT TO OR NEAR EXISTING CONCRETE IMPROVEMENTS, MATCH THE FINISH OF SIMILAR CONCRETE SURFACES (I.E. NEW SIDEWALKS SHALL MATCH EXISTING SIDEWALKS, NEW CURBS SHALL MATCH EXISTING CURBS, ETC.).
- SIDEWALKS AND MOWSTRIPS: MEDIUM SWEAT FINISH OR MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL
- CURBS: TROWEL SMOOTH AND FINISH WITH A LIGHT BRUSH
- GUTTERS: MEDIUM BROOM FINISH PARALLEL WITH CURB OR DIRECTION OF FLOW
- DRIVE APPROACHES AND WHEELCHAIR RAMPS: MEDIUM BROOM FINISH, PERPENDICULAR TO THE DIRECTION OF TRAVEL



AGENCY APPROVAL DSAP

19.6

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CA 94534

SHEET TITLE

**SITE PLAN**

DRAWN BY: TJ

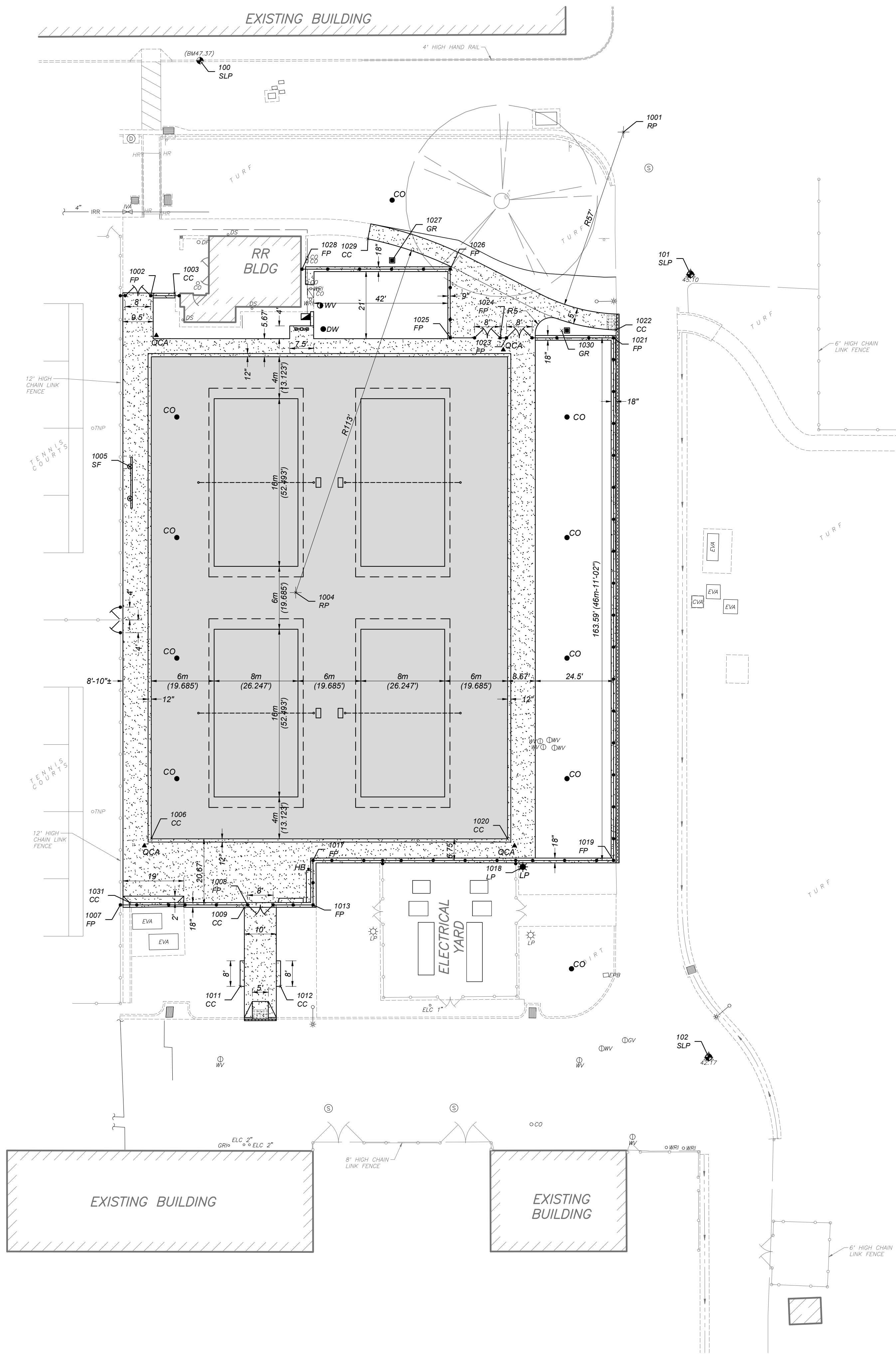
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SHEET NO.

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DATE: FEBRUARY 10, 2025





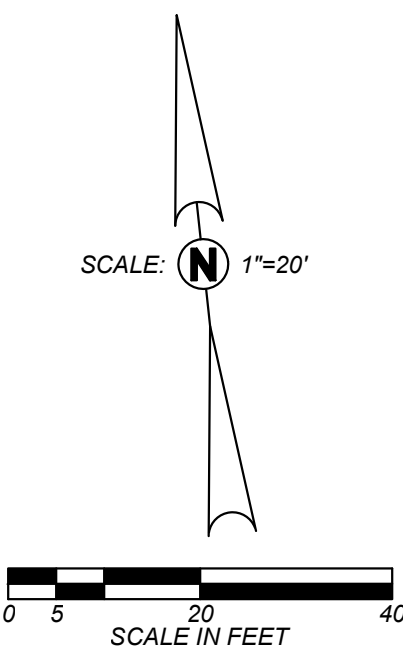
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| 102                    | 1847625.54 | 6527209.33 | SLP SITE LAYOUT POINT |
| 1001                   | 1847916.33 | 6527213.74 | RP RADIUS POINT       |
| 1002                   | 1847881.21 | 6527061.12 | FP FENCE POST         |
| 1003                   | 1847881.19 | 6527068.68 | CC CORNER CONCRETE    |
| 1004                   | 184783.98  | 6527096.31 | RP RADIUS POINT       |
| 1005                   | 1847828.74 | 6527048.94 | SF SCOREBOARD FOOTING |
| 1006                   | 1847712.14 | 6527043.12 | CC CORNER CONCRETE    |
| 1007                   | 1847692.63 | 6527031.30 | FP FENCE POST         |
| 1008                   | 1847688.37 | 6527070.89 | FP FENCE POST         |
| 1009                   | 1847687.73 | 6527069.81 | CC CORNER CONCRETE    |
| 1011                   | 1847663.27 | 6527065.84 | CC CORNER CONCRETE    |
| 1012                   | 1847661.92 | 6527078.44 | CC CORNER CONCRETE    |
| 1013                   | 1847700.02 | 6527092.75 | FP FENCE POST         |
| 1017                   | 1847686.18 | 6527091.27 | FP FENCE POST         |
| 1018                   | 1847691.02 | 6527157.85 | LP LIGHT POLE         |
| 1019                   | 1847689.97 | 6527186.29 | FP FENCE POST         |
| 1020                   | 1847700.23 | 6527154.03 | CC CORNER CONCRETE    |
| 1021                   | 1847852.62 | 6527203.76 | FP FENCE POST         |
| 1022                   | 1847854.97 | 6527204.82 | CC CORNER CONCRETE    |
| 1023                   | 1847858.20 | 6527170.45 | FP FENCE POST         |
| 1024                   | 1847858.42 | 6527168.46 | FP FENCE POST         |
| 1025                   | 1847858.08 | 6527152.93 | FP FENCE POST         |
| 1026                   | 1847879.46 | 6527155.22 | FP FENCE POST         |
| 1027                   | 1847884.14 | 6527137.43 | GR STORM DRAIN GRATE  |
| 1028                   | 1847894.42 | 6527109.07 | FP CORNER CONCRETE    |
| 1029                   | 1847891.66 | 6527130.61 | CC CORNER CONCRETE    |
| 1030                   | 1847856.65 | 6527187.86 | GR STORM DRAIN GRATE  |
| 1031                   | 1847693.06 | 6527034.26 | CC CORNER CONCRETE    |

HORIZONTAL CONTROL LEGEND:

- 100 LCP LAYOUT COORDINATE POINT
- 100 SLP SITE LAYOUT POINT
- CC CORNER CONCRETE
- FP FENCE POST
- GR STORM DRAIN GRATE
- RP RADIUS POINT
- SF SCOREBOARD FOOTING

GENERAL HORIZONTAL CONTROL NOTES:

- ALIGNMENT OF THE SITE LAYOUT GRID IS BASED ON AN ASSUMED COORDINATE SYSTEM.
- SITE LAYOUT POINT 100 IS THE SITE BENCHMARK. A CHISELED 'X' ON TOP OF CURB APPROXIMATELY 55± NORTH OF THE NORTHWEST CORNER OF THE EXISTING RESTROOM BUILDING.
- SITE LAYOUT POINT 101 IS A NAIL AN TIN EMBEDDED IN THE ASPHALT PAVEMENT APPROXIMATELY 123± DIRECTLY EAST OF THE EXISTING RESTROOM BUILDING.
- SITE LAYOUT POINT 102 IS A NAIL AND TIN EMBEDDED IN THE ASPHALT PAVEMENT APPROXIMATELY 63± SOUTHEAST OF THE SOUTHEAST CORNER OF THE EXISTING ELECTRICAL YARD.
- DIMENSIONS AND POINTS ARE TO CENTER OF FENCE POSTS, TOP FACE OF CURB, OR EDGE OF CONCRETE, UNLESS SHOWN OTHERWISE.



AGENCY APPROVAL DSA#

196

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REVISIONS

| NO. | DATE     | DESCRIPTION   |
|-----|----------|---------------|
| 1   | 05.13.25 | ISSUE FOR BID |
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PROJECT OWNER & TITLE

**SOLANO COMMUNITY COLLEGE**  
4000 Suisun Valley Rd, Fairfield  
Fairfield, CA 94534

**SAND VOLLEYBALL COMPLEX**  
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CA 94534

SHEET TITLE

**HORIZONTAL CONTROL PLAN**

DRAWN BY: TJ

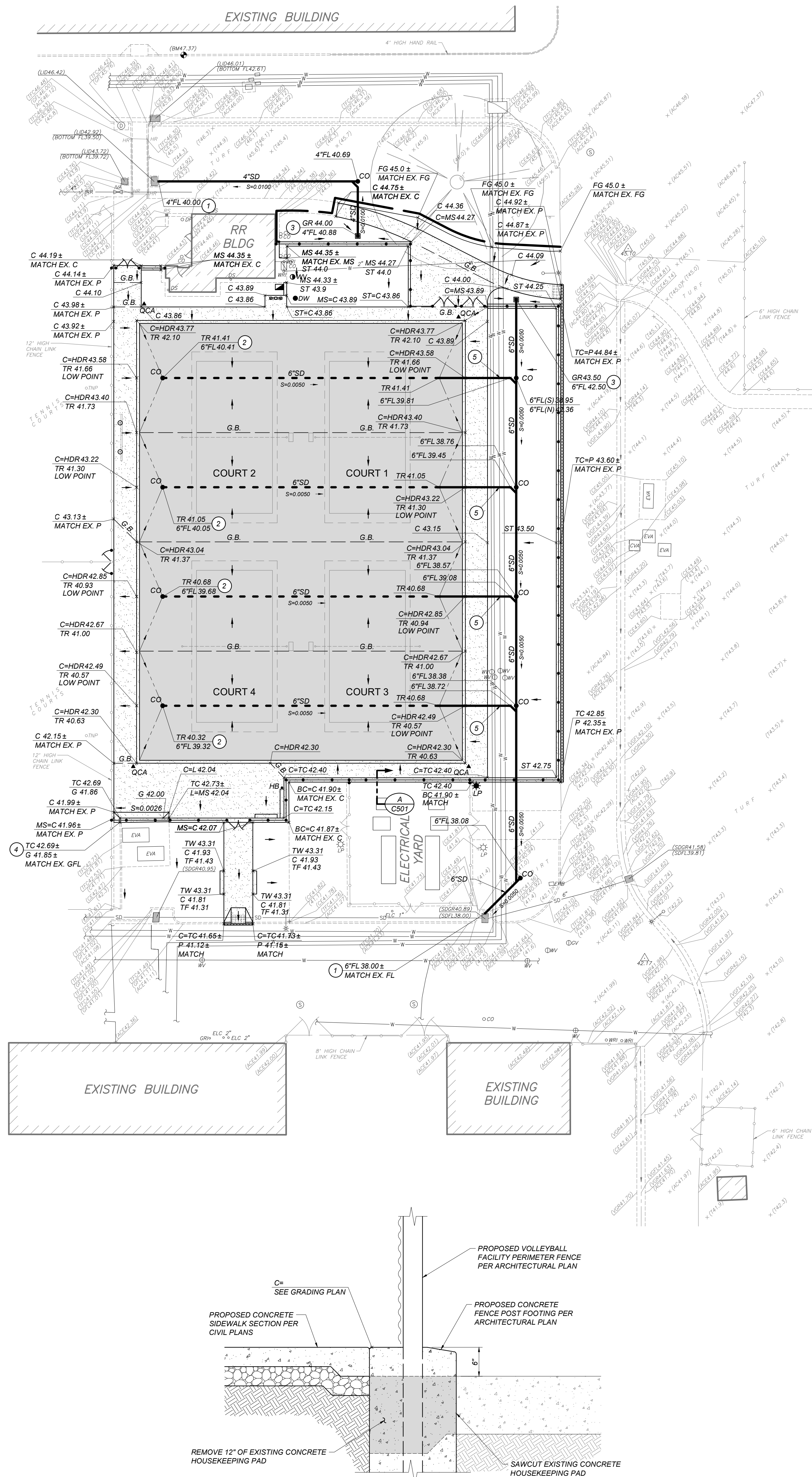
JOB NUMBER: 24056

SHEET NO.

**C401**

DATE: FEBRUARY 10, 2025





GRADING AND DRAINAGE

LEGEND:

- BC BOTTOM OF CURB
- C CONCRETE
- FG FINISHED GRADE
- FL FLOWLINE
- G GUTTER FLOWLINE
- GR STORM DRAIN GRATE
- HDR CONCRETE HEADER
- L LIP OF GUTTER
- MS MOWSTRIP
- ST SYNTHETIC TURF SURFACE
- TC TOP OF CURB
- TR TOP OF ROCK LAYER UNDER SAND
- (344.9) EXISTING ELEVATION
- 328.78 NEW FINISHED GRADE
- DIRECTION OF SURFACE DRAINAGE
- G.B. - GRADE BREAK
- LIMITS OF GRADING
- CO SURFACE CLEANOUT PER DETAIL [D/C702]
- 6"SD PVC SDR-35 STORM DRAIN PIPELINE: SIZE AS NOTED ON PLANS. TRENCH AND BACKFILL PER DETAIL [G/C703]
- 6"SD PERFORATED PVC SDR-35 STORM DRAIN PIPELINE: SIZE AS NOTED ON PLANS. TRENCH AND BACKFILL PER DETAIL [G/C703]
- S=0.0020 FLOWLINE SLOPE AND DIRECTION OF FLOW
- PIPE SLOPE AND DIRECTION OF FLOW
- ① CONNECT TO EXISTING STORM DRAIN WITH A WATER-PROOF CONNECTION
- ② SET TOP OF CLEANOUT AT BOTTOM OF SAND LAYER
- ③ P6 STORM DRAIN INLET PER DETAIL [E/C702]
- ④ DRAIN NEW GUTTER PAN TO EXISTING GUTTER PAN
- ⑤ CONTRACTOR TO POT HOLE AND VERIFY STORM DRAIN CROSSING AT EXISTING HYDROLOGIC LINES

EROSION AND SEDIMENT CONTROL NOTES:

- THE CONTRACTOR, SUB-CONTRACTORS, AND OWNER ARE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL. IMPLEMENTATION OF BMPs, AND CONSEQUENCES OF ANY AND ALL VIOLATIONS.
- ALL MATERIALS FOR THE PROJECT, INCLUDING THE NATIVE SOIL (SEDIMENT) ARE CONSIDERED POLLUTANTS. THE POLLUTANTS SHALL NOT LEAVE THE SITE VIA DRAINAGE, WHEEL TRACKING AND/OR BY WIND. ALL MATERIALS INCLUDING WASTE ARE TO LEAVE THE SITE IN ADEQUATELY SECURED CONTAINERS.
- ALL WASTE AND STORAGE CONTAINERS SHALL BE KEPT COVERED AT ALL TIMES TO PREVENT LEACHING OF THE WASTE & MATERIALS FROM ESCAPING THEIR CONTAINER AND ONTO THE SITE. HAZARDOUS WASTE (PAINTS, STAINS, GLUES, ADHESIVES, ETC) SHALL BE STORED IN COVERED AREAS WITH SECONDARY CONTAINMENT FOR LIQUID MATERIALS IN CASE OF ACCIDENTAL LEAKAGE/SPILLAGE.
- THE CONTRACTOR SHALL MAINTAIN BOTH SEDIMENT AND EROSION CONTROL BMPs THROUGHOUT THE LIFE OF THE PROJECT. PERIMETER BMPs MAY INCLUDE Silt Fence, Sandbags, Fiber Rolls, Berms, Swales ETC.
- STREET SURFACES SHALL BE SWEEP BY THE CONTRACTOR PER CASQA SET 1. VISIBLE SEDIMENT TRACKING SHALL BE SWEEP OR VACUUMED ON A DAILY BASIS.
- DUST CONTROL PRACTICES SHALL CONFORM WITH THE SOLANO COUNTY AND CALIFORNIA REQUIREMENTS.
- CONTRACTOR SHALL FOLLOW ALL EROSION AND SEDIMENT CONTROL PRACTICES REQUIRED BY THE SOLANO COMMUNITY COLLEGE DISTRICT.

SPECIFICATIONS

CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS BOOK AND THE SOLANO COMMUNITY COLLEGE STANDARD SPECIFICATIONS AND DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN THE SPECIFICATIONS BOOK AND THE SCC STANDARD SPECIFICATIONS AND DRAWINGS, THE CONTRACTOR SHALL BRING THE DISCREPANCY TO THE ATTENTION OF THE DESIGN TEAM.

GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

- CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALLS AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).
- CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:
  - ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%.
  - ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%.
  - RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%.
  - ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH.
  - ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
  - LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
  - GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 8.33%.
- CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.
- GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.
- DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.
- ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.
- AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL, AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLE DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.
- ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [B/C702]. REPLACE ALL BROKEN LIDS WITH NEW, PROVIDE TRAFFIC RATED LIDS AND BOXES WITHIN AREAS SUBJECT TO VEHICULAR TRAFFIC.
- MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM, WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS.

SITE BENCHMARK:

CHISELED "X" ON TOP OF CURB APPROXIMATELY 55' NORTH OF RESTROOM BUILDING AND APPROXIMATELY 12' EAST OF RAMP.  
ELEV. = 47.37 NAVD88 DATUM

BID ALTERNATE SCHEDULE:

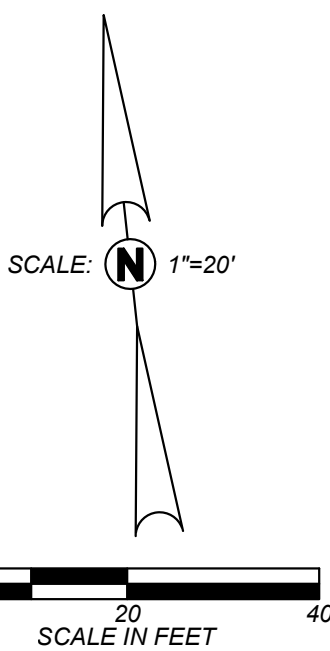
- PRE-CHECK SHADE STRUCTURE
- PRE-CHECK DIGITAL SCOREBOARD
- UNDERGROUND RACEWAYS FOR FUTURE SITE LIGHTING

FLOOD HAZARD ZONE INFORMATION:

- FLOOD ZONE DESIGNATION: ZONE X, AREA OF MINIMAL FLOOD HAZARD
- FIRM PANEL DESIGNATION: MAP # 06095C0451E
- FIRM EFFECTIVE DATE: MAY 4, 2009
- BASE FLOOD ELEVATION: N/A

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

NPDES NOI DATE: N/A  
WQID #: N/A  
PROJECT SIZE: 35,900 SF (0.82 ACRES)



196

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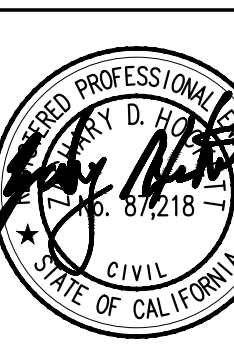
CONSULTANTS

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SAND VOLLEYBALL COMPLEX  
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE

GRADING PLAN

DRAWN BY:

JC

JOB NUMBER:

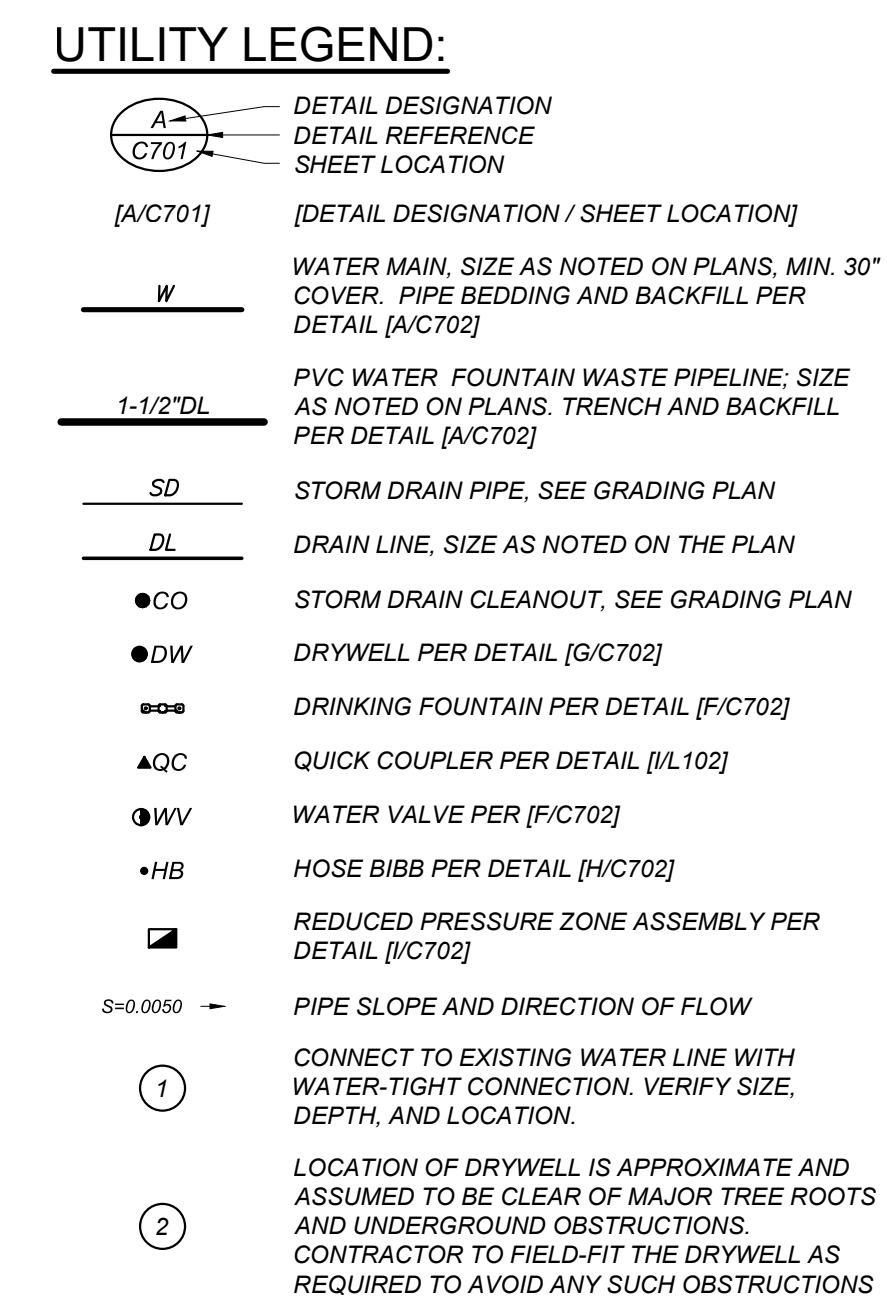
24056

SHEET NO.

C501

DATE: FEBRUARY 10, 2025





1. AS FIRST ORDER OF WORK, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF LOCATIONS, SIZE AND DEPTH.
2. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, DEPTH, AND THE TYPE OF ALL EXISTING UTILITIES AND INTERFERENCES SITUATED ALONG THE ROUTE OF THE PROPOSED CONSTRUCTION PRIOR TO COMMENCEMENT OF CONSTRUCTION. FABRICATE AND INSTALL ALL NEW UTILITIES. CONTRACTOR SHALL CONSTRUCT ALL IMPROVEMENTS IN SUCH A MANNER AS WILL PROTECT ALL EXISTING CONDUITS AROUND THE PROJECT. IN THE EVENT OF ANY CONFLICTS, SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING.
3. SEE IRRIGATION PLANS FOR PROPOSED IRRIGATION PIPE
4. COORDINATE EXIST POINTS OF CONNECTION TO BUILDING PLUMBING AND NOTIFY THE ENGINEER OF ANY CONFLICT SO THAT ADJUSTMENTS CAN BE MADE IF NEEDED.
5. SAWCUT EXISTING CONCRETE IMPROVEMENTS AS NECESSARY TO INSTALL NEW WATER OR SEWER IMPROVEMENTS. COORDINATE NEW CONDUIT AND UTILITY ELEMENTS TO MATCH ADJACENT CONCRETE IMPROVEMENTS AND JOIN TOGETHER WITH DOWEL BARS PER DETAIL [C7C01]
6. INSTALLATION, TYPE, AND MANUFACTURER'S MODELS OF ALL NEW WATER MAINS, SEWER MAINS, AND OTHER UTILITIES OR OTHER APPURTENANCES OF SITE UTILITY SYSTEMS SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.
7. LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED, SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUALITY OF THE MATERIALS, PIPING, FURNITURE, EQUIPMENT, SUPPORTS, ETC., SHALL BE CAREFULLY PLANNED PRIOR TO INSTALLATION OF ANY WORK TO PREVENT INTERFERENCE WITH EXISTING OR WITH STRUCTURAL, ELECTRICAL, PLUMBING AND MECHANICAL ARCHITECTURAL OR ANY OTHER ELEMENTS. ALL CONFLICTS SHALL BE REVEALED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
8. ANY INSPECTION TO BE MADE BY THE AUTHORITY HAVING JURISDICTION SHALL REQUIRE A MINIMUM OF 24 HOUR NOTICE.
9. PURITY TESTS ARE REQUIRED ON ALL WATER SYSTEM COMPONENTS. CONTRACTOR SHALL COORDINATE WITH THE AUTHORITY HAVING JURISDICTION.
10. IF THE TOP OF THE STEM OF ANY WATER GATE VALVE IS DEEPER THAN 4' BELOW FINISHED PAVEMENT GRADE, THE CONTRACTOR SHALL PROVIDE A 2' MINIMUM EXTENSION SO THAT THE TOP OF THE STEM, WITH EXTENSION, SHALL BE NO DEEPER THAN 4' NOR SHALLOWER THAN 2' FROM FINISHED GRADE.
11. BACKFILL UTILITY TRENCHES PER DETAIL [A7C02]
12. ADJUST EXISTING UTILITY LIDS TO FINISHED GRADE PER UTILITY COMPANY STANDARDS AND DETAIL [B7C02] AND INSTALL TRAFFIC RATED LIDS WHERE LOCATED IN A TRAFFIC AREA.

1. PRE-CHECK SHADE STRUCTURE
2. PRE-CHECK DIGITAL SCOREBOARD
3. UNDERGROUND RACEWAYS FOR FUTURE SITE LIGHTING

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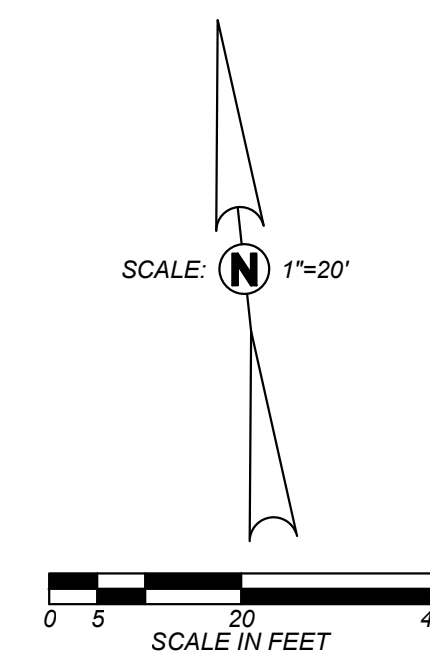
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4000 Suisun Valley Rd, Fairfield,  
CA 94534

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|-------------------------|-------------------|
| SHEET TITLE             |                   |
| <b>UTILITY PLAN</b>     |                   |
| DRAWN BY: TJ            | JOB NUMBER: 24056 |
| SHEET NO.               |                   |
| <b>C601</b>             |                   |
| DATE: FEBRUARY 10, 2025 |                   |



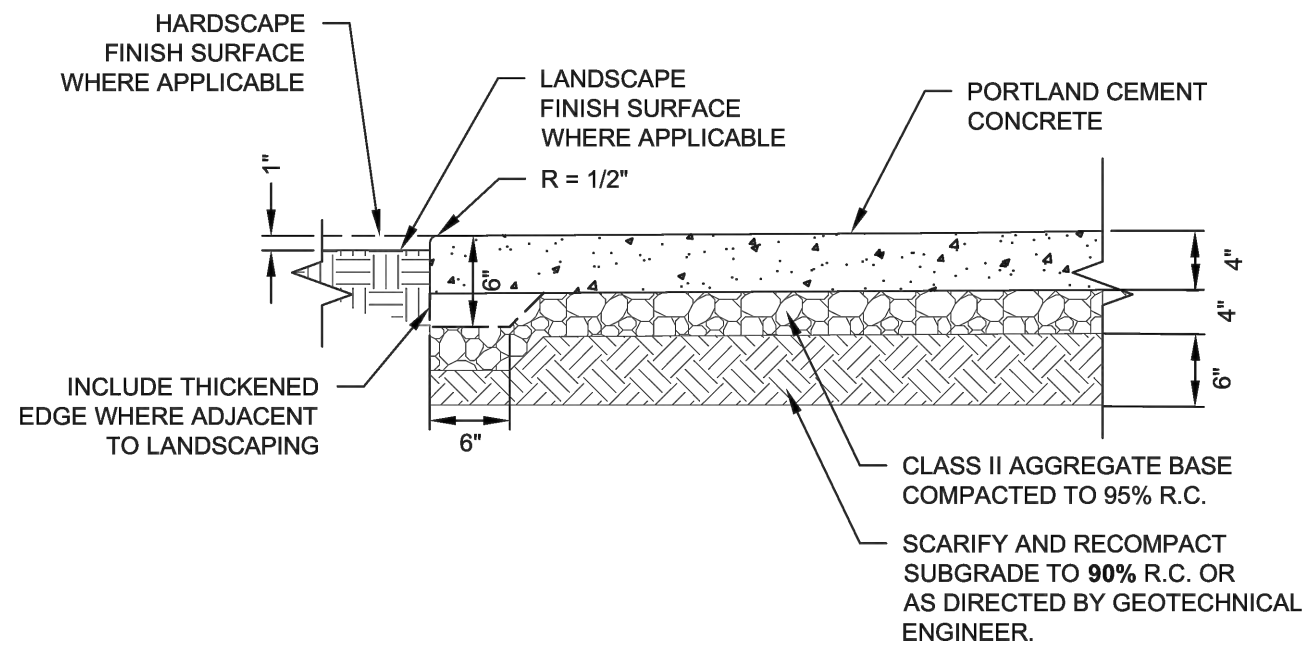
**Know what's below.  
Call before you dig.**



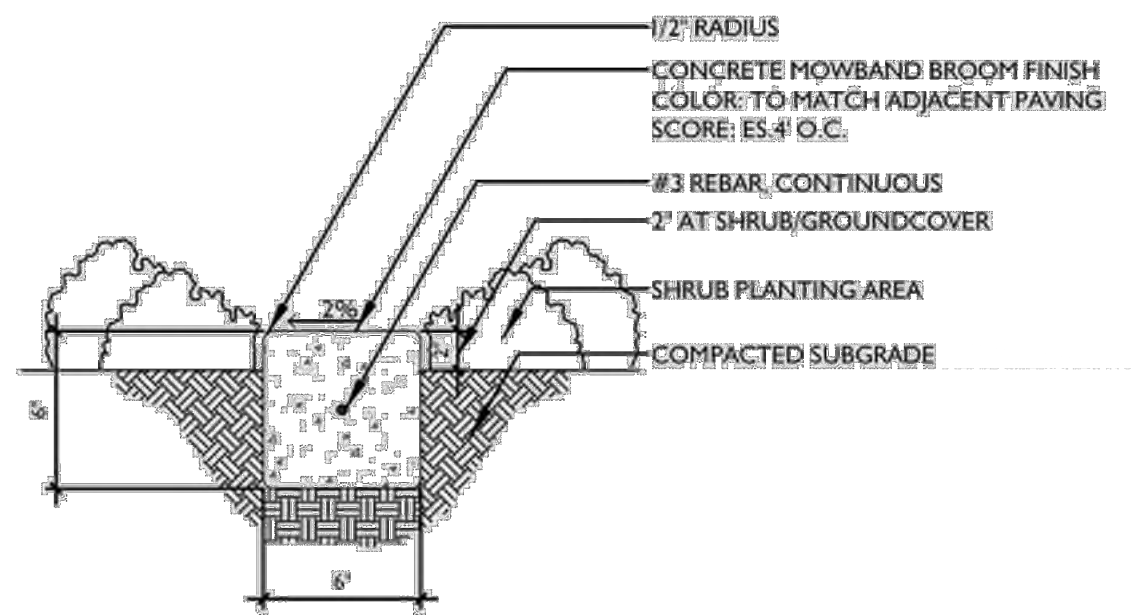
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DATE PLOTTED: 2/26/2025 4:50:24PM

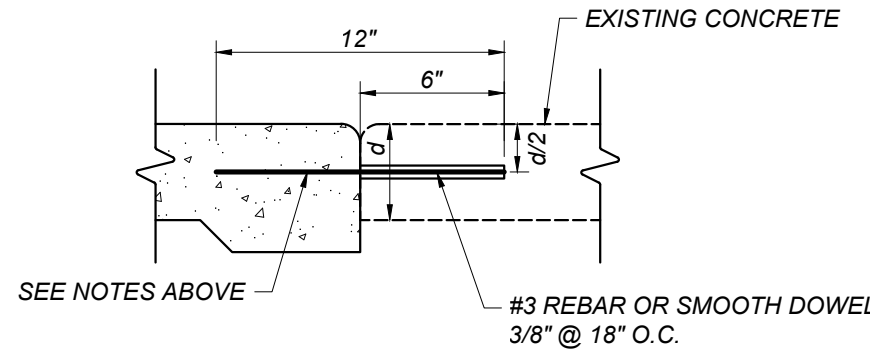


**A**  
**C701** REGULAR-DUTY CONCRETE (SCCD STANDARD DWG. NO. 110)  
NOT TO SCALE

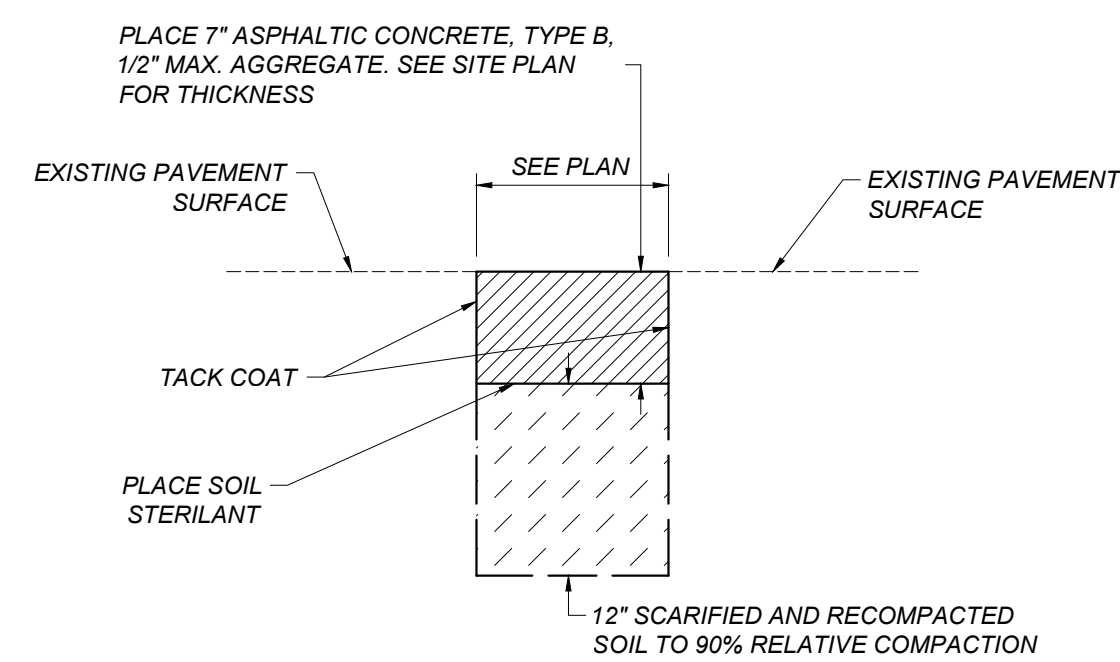


**B**  
**C701** CONCRETE MOWSTRIP (SCCD STANDARD 32 12 00)  
NOT TO SCALE

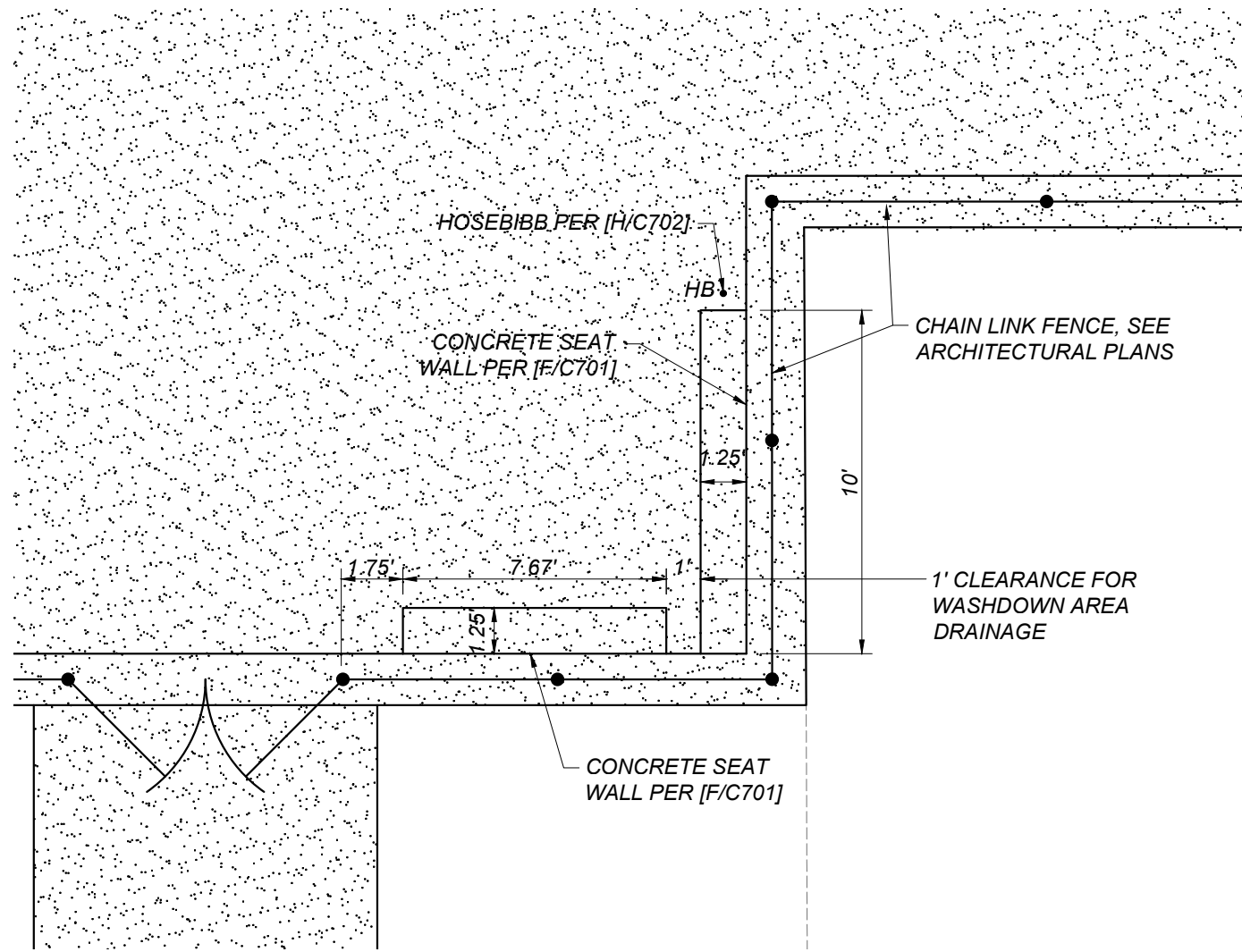
- NOTES:
1. DRILL HOLE 1/8" LARGER THAN DOWEL DIAMETER.
  2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.
  3. FILL HOLE WITH APPROVED ADHESIVE BEFORE INSERTING DOWEL INTO EXISTING CONCRETE.
  4. WHERE SMOOTH DOWEL IS USED, APPLY BOND BREAKER TO SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.
  5. WHERE DEFORMED REBAR DOWEL IS USED, PROVIDE APPROVED WRAP ON SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.



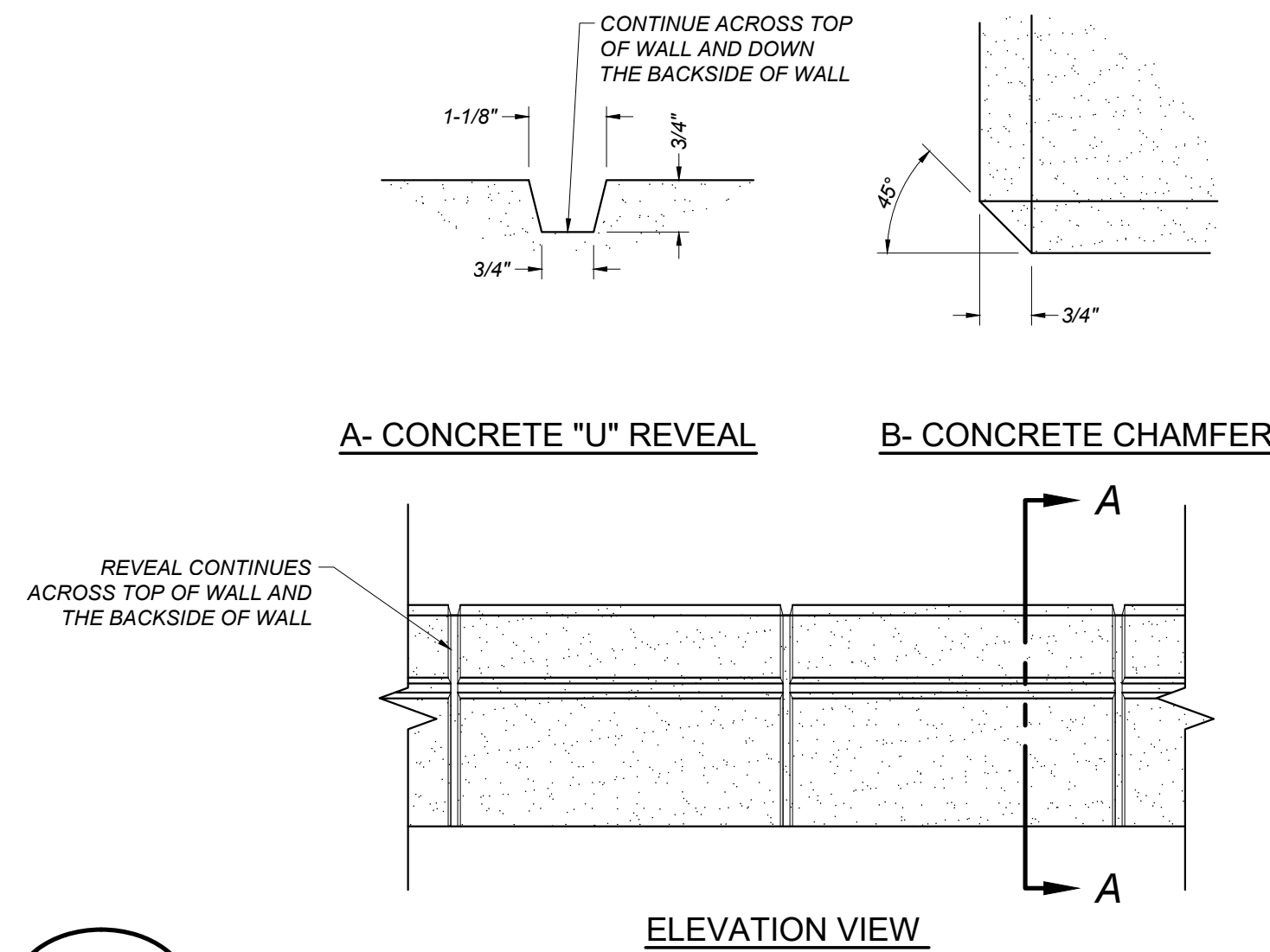
**C**  
**C701** DOWEL BAR  
NOT TO SCALE



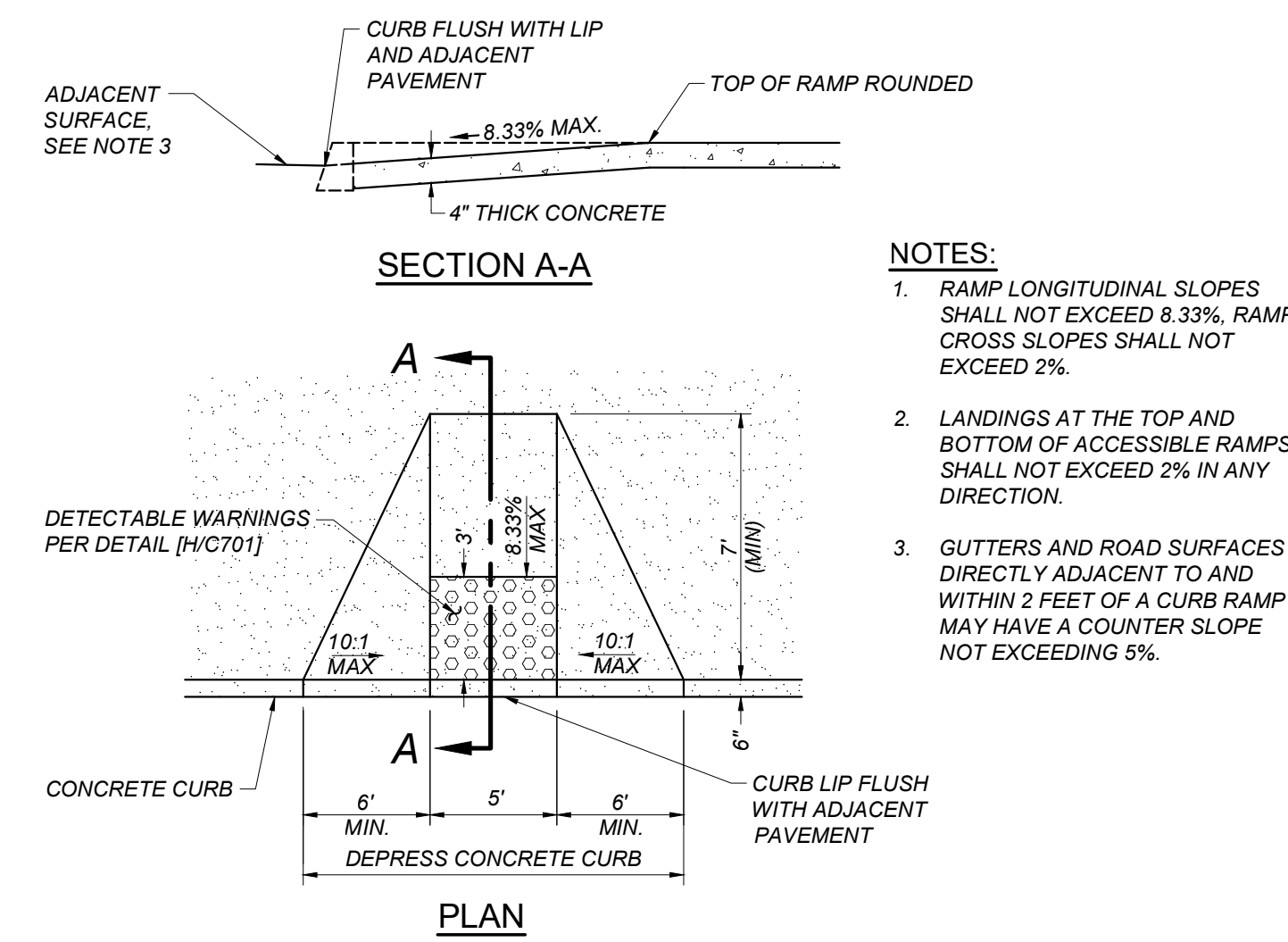
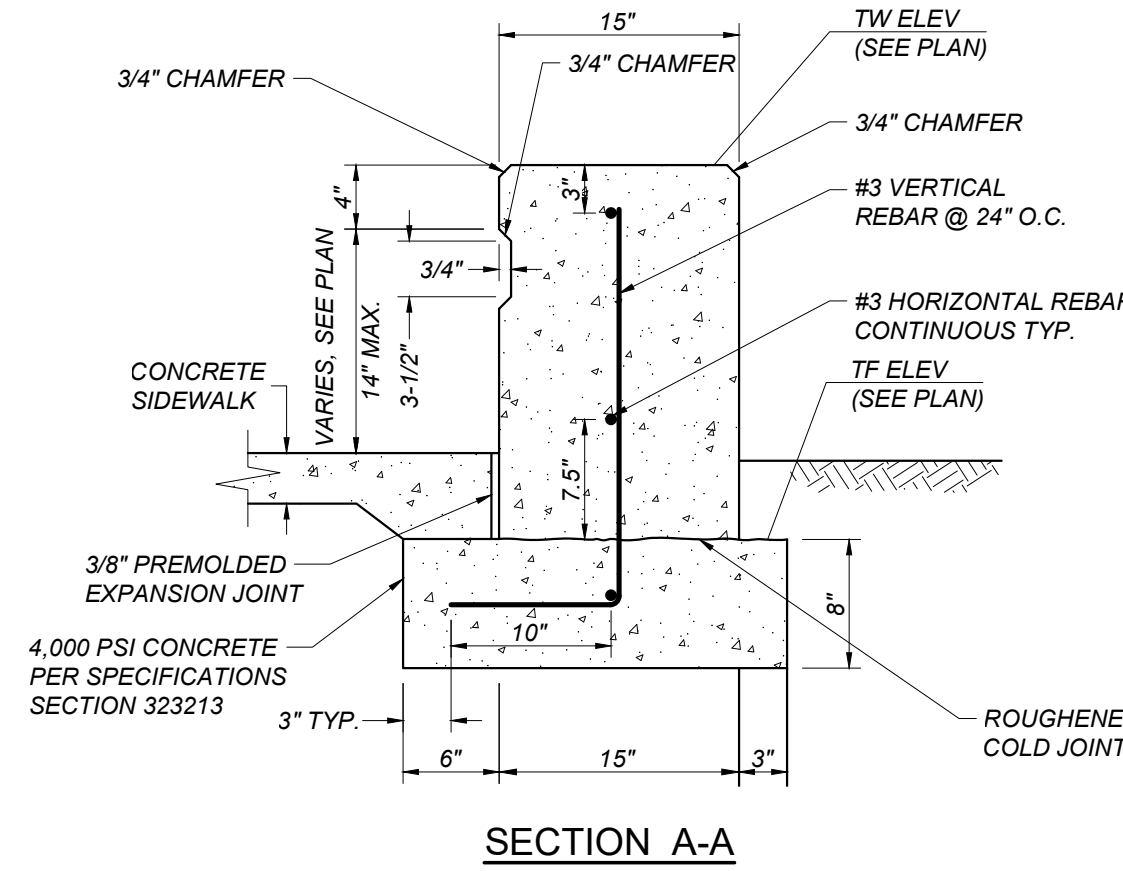
**D**  
**C701** ASPHALT CONCRETE PLUG  
NOT TO SCALE



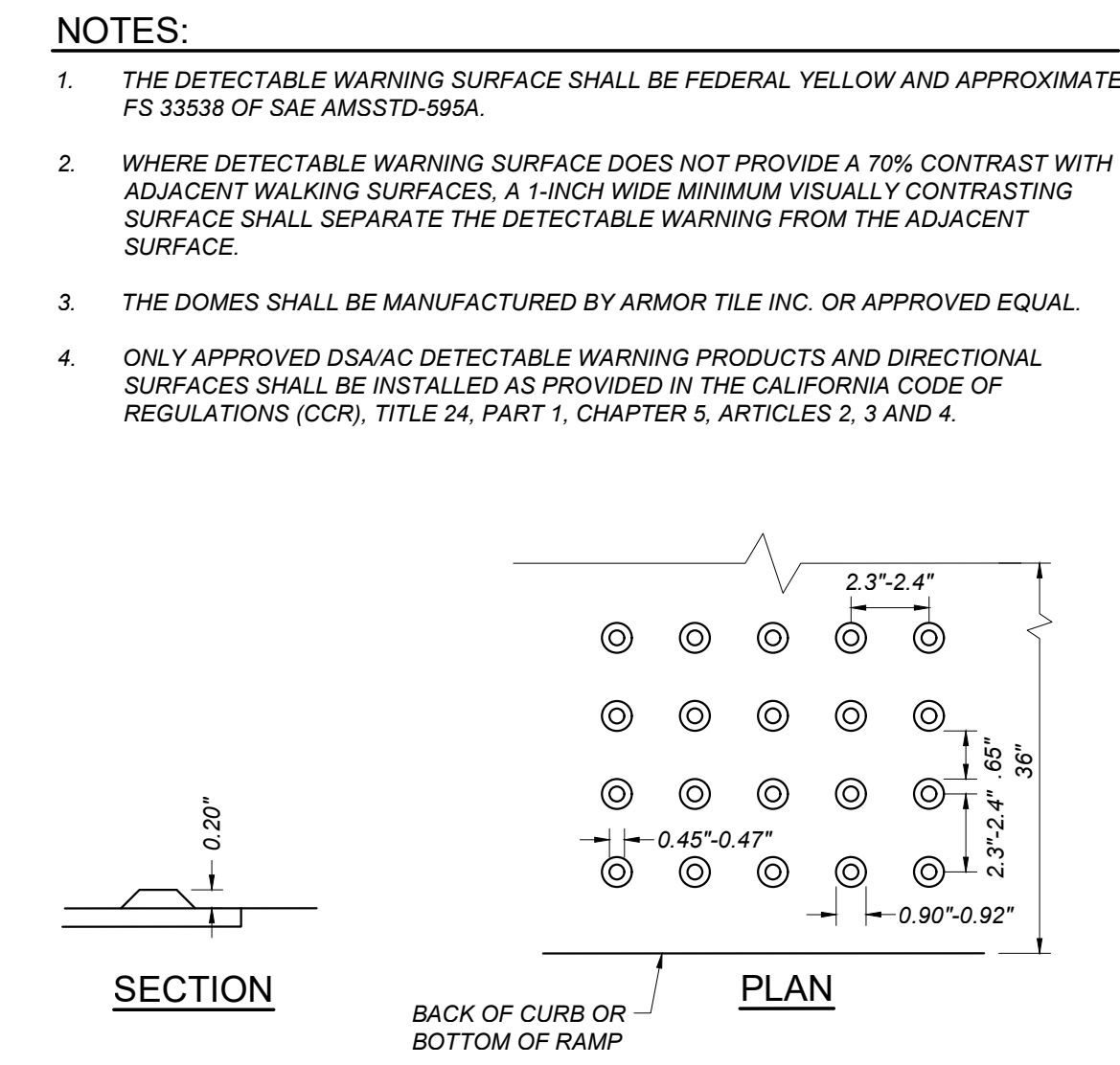
**E**  
**C701** WASHDOWN AREA ENLARGEMENT  
NOT TO SCALE



**F**  
**C701** SEAT WALL  
NOT TO SCALE



**G**  
**C701** CONCRETE CURB RAMP  
NOT TO SCALE



**H**  
**C701** DETECTABLE WARNINGS  
NOT TO SCALE

AGENCY APPROVAL DSAF

196

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CONSULTANT STAMP



REVISIONS

| NO. | DATE     | DESCRIPTION   |
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| 1   | 05.13.25 | ISSUE FOR BID |
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PROJECT OWNER & TITLE  
**SOLANO COMMUNITY COLLEGE**  
4000 Suisun Valley Rd, Fairfield  
Fairfield, CA 94534

**SAND VOLLEYBALL COMPLEX**  
4000 Suisun Valley Rd, Fairfield,  
CA 94534

SHEET TITLE

**DETAILS**

DRAWN BY: TJ JOB NUMBER: 24056

SHEET NO.

**C701**

DATE: FEBRUARY 10, 2025

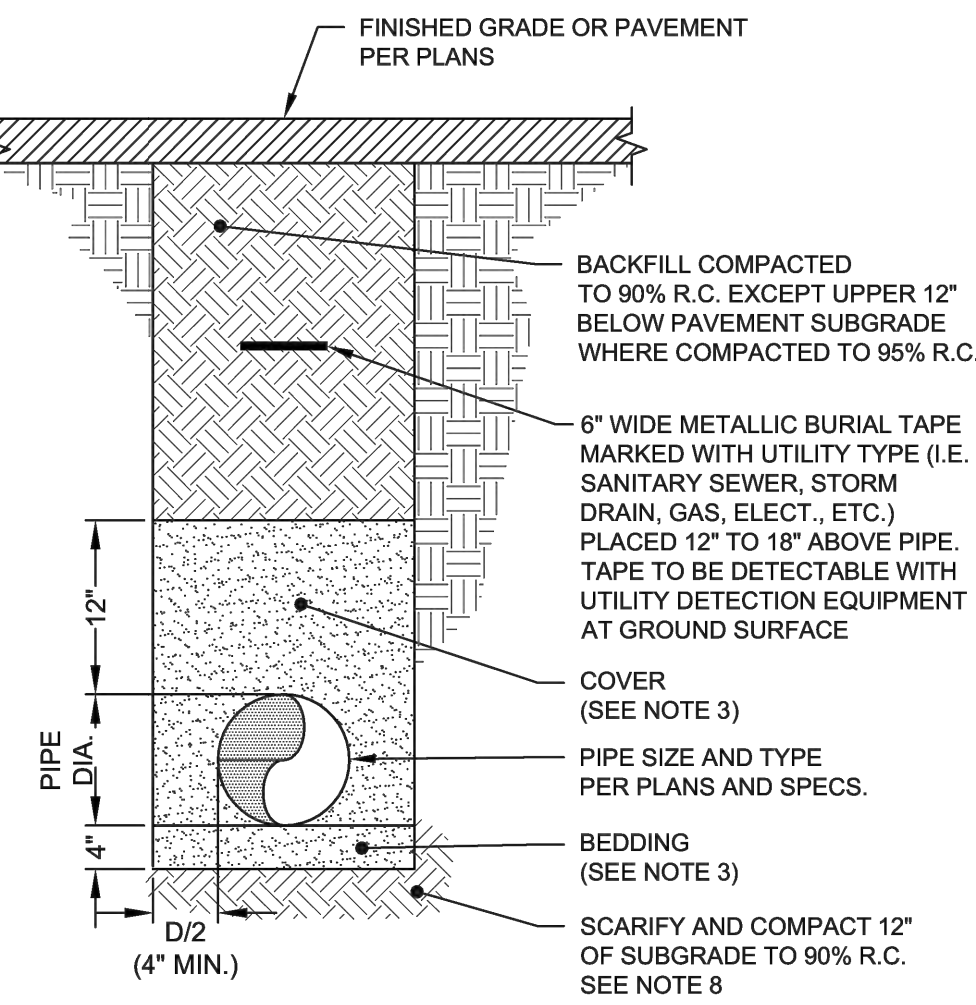


CONSTRUCTION DOCUMENTS



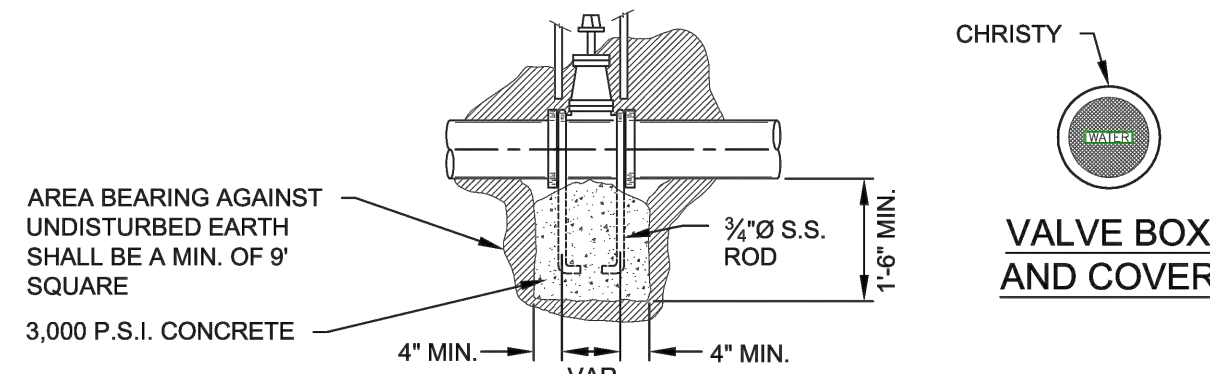
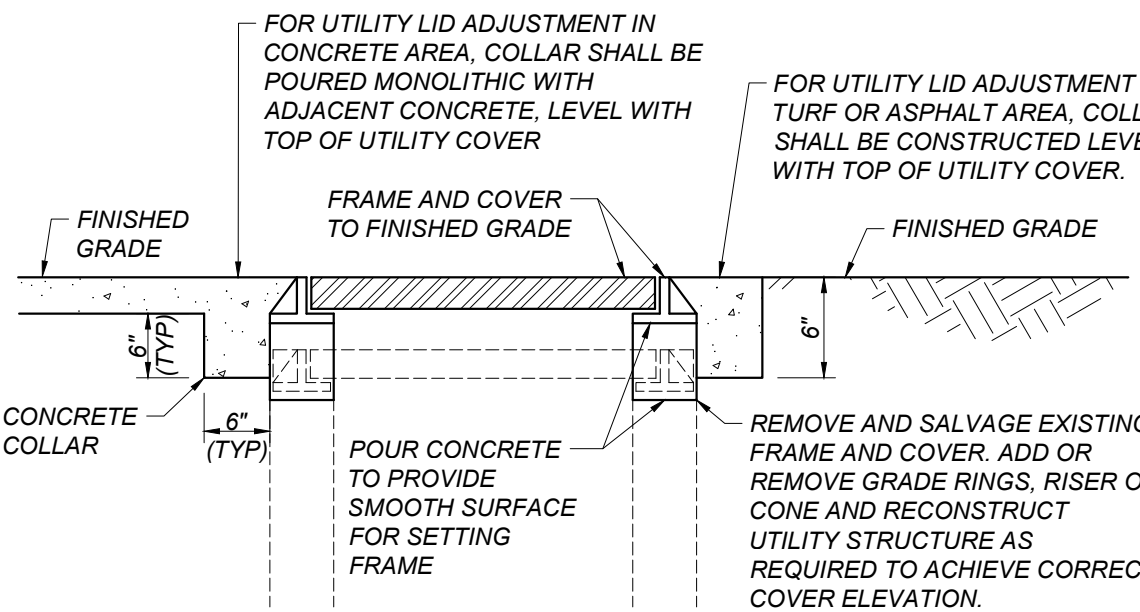
NOTES:

- UTILITY TRENCH CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- EXCAVATE FOR BELLS OR HUBS SO FULL LOAD IS CARRIED BY PIPE BARRELS.
- BEDDING AND COVER: SAND OR FINE GRAVEL WITH LESS THAN 10% FINES.
- BEDDING SHALL BE PLACED IN A MANNER SUCH AS SLICING, SHOVEL-SPADING, OR SHOVEL RODDING TO ENSURE COMPLETE "FILLING OF THE HAUNCH AREAS" BELOW THE PIPE. JETTING IS NOT PERMITTED.
- SUBGRADE TO BE FREE OF PROTRUDING OBJECTS.
- BACKFILL MAY BE NATIVE SOIL.

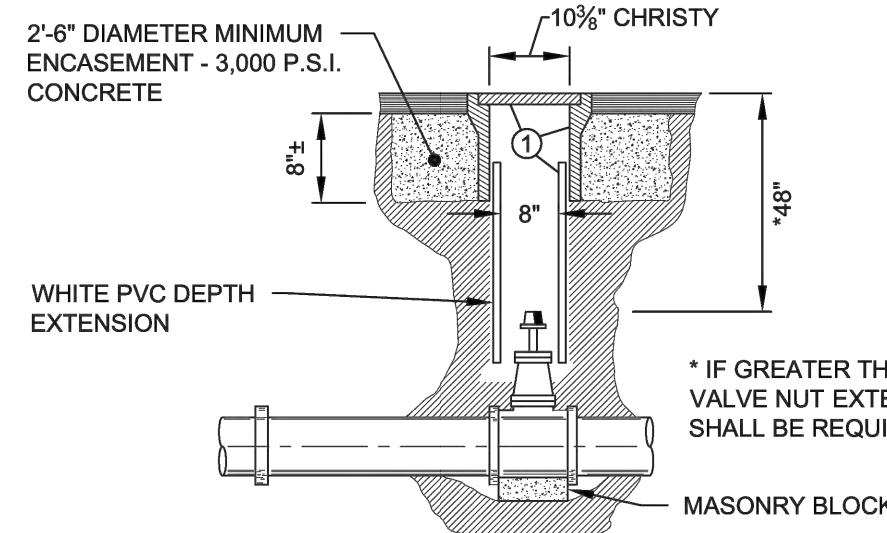


**A**  
**C702** TRENCH DETAIL FOR UTILITY LINES (SCCD STANDARD DWG.NO. 200)  
NOT TO SCALE

**B**  
**C702** ADJUST UTILITY LID  
NOT TO SCALE



TYPICAL SECTION  
GREATER THAN 12" VALVE

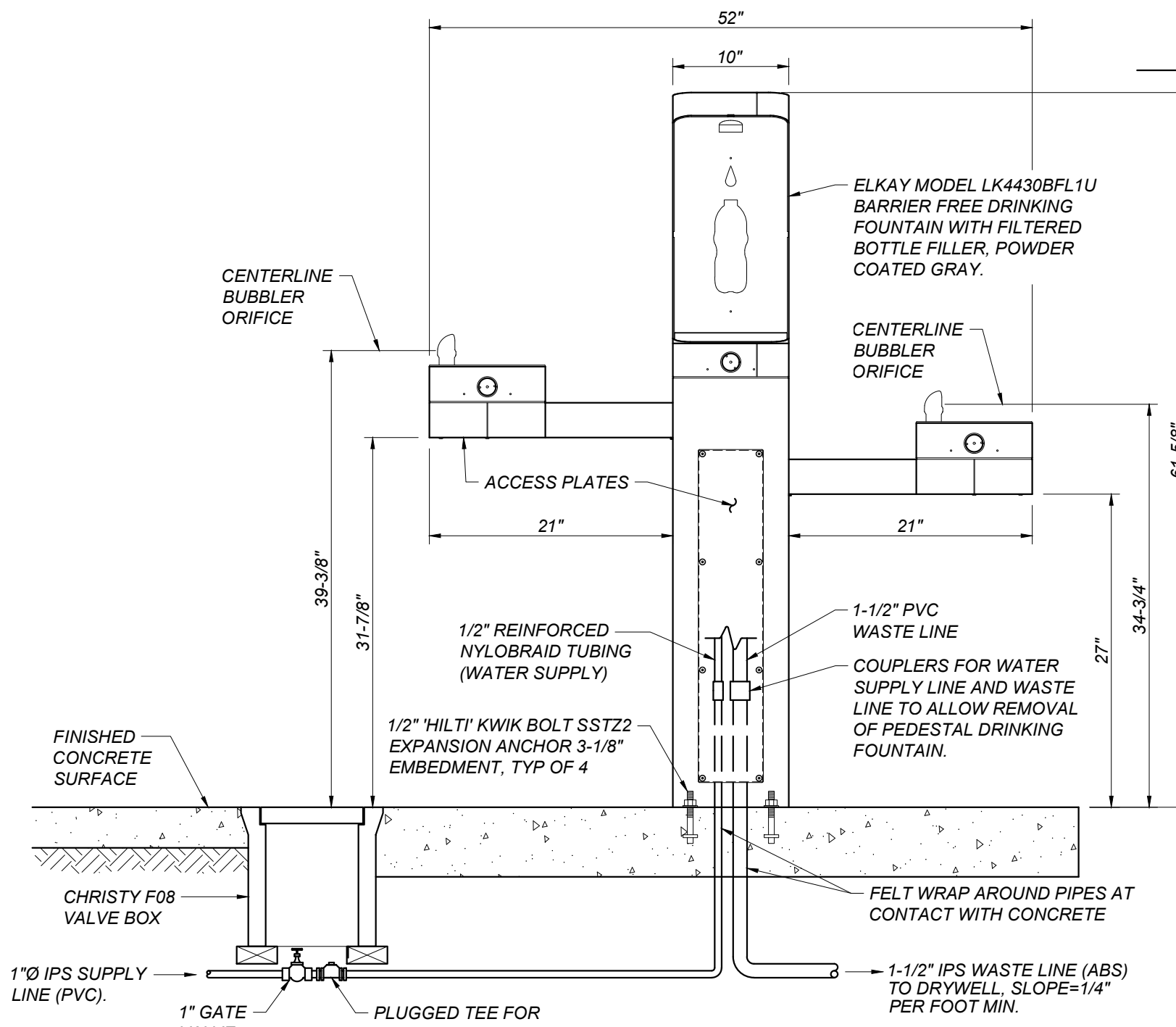


TYPICAL SECTION  
12" VALVE AND SMALLER

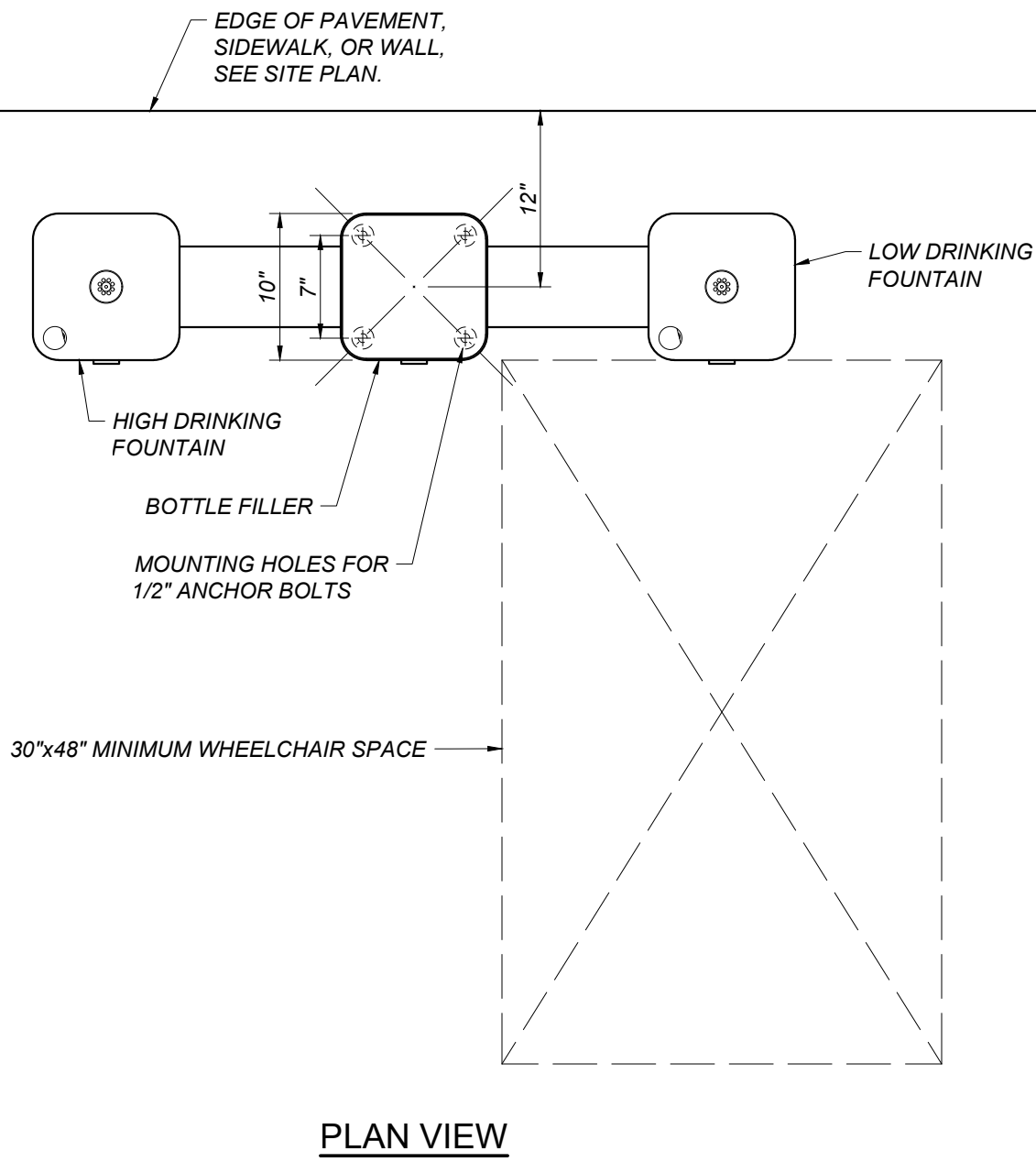
NOTES:

- VALVE BOX AND COVER SHALL BE CHRISTY CONCRETE PRODUCTS NO. G-5 OR EQUAL, WITH DEPTH EXTENSIONS AS REQUIRED.
- ALL VALVES SHALL HAVE FLANGED CONNECTIONS AT ALL TEES AND CROSSES.
- ALL VALVES SHALL BE SEPARATED FROM JOINTS WITH A 3" TO 6" SECTION OF PIPE.
- VALVE SHALL BE RESILIENT SEAT GATE (12" OR LESS) OR BUTTERFLY (GREATER THAN 12") PER CITY SPECIFICATION.

**C**  
**C702** GATE VALVE AND LID (SCCD STANDARD DWG. NO. 310)  
NOT TO SCALE



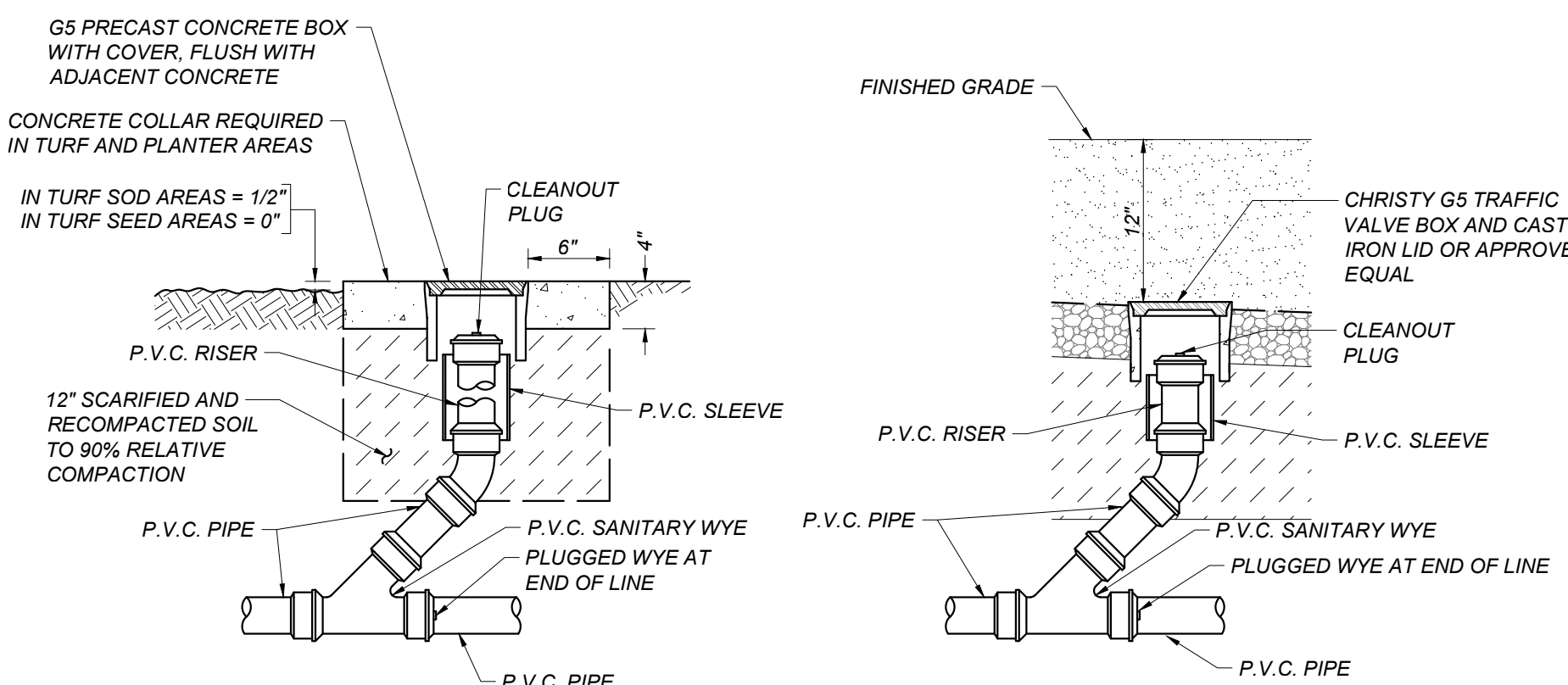
SIDE VIEW



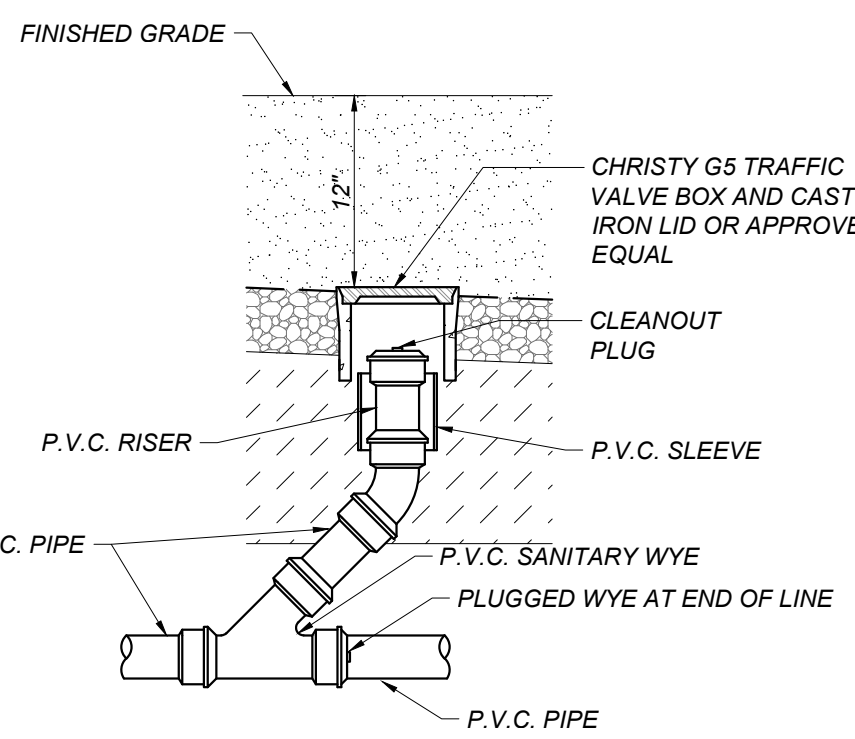
NOTE:

SEE THE SITE PLANS AND UTILITY PLANS FOR DRINKING FOUNTAIN LOCATION, AND THE LAYOUT SHOWING CONFORMANCE WITH ADA ACCESS REQUIREMENTS (30"X48" WHEELCHAIR SPACE).

PLAN VIEW



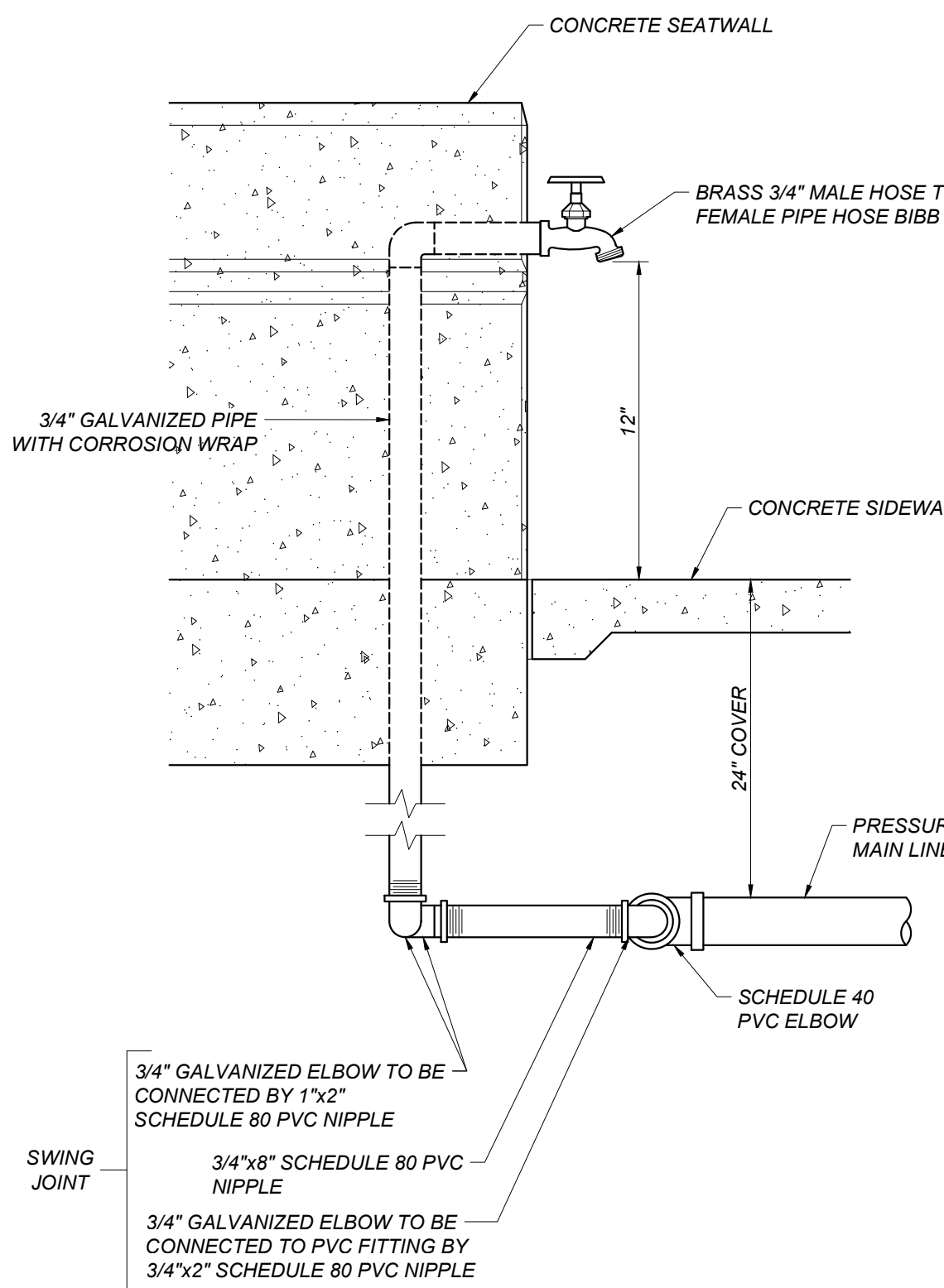
SURFACE CLEANOUT



BURIED CLEANOUT

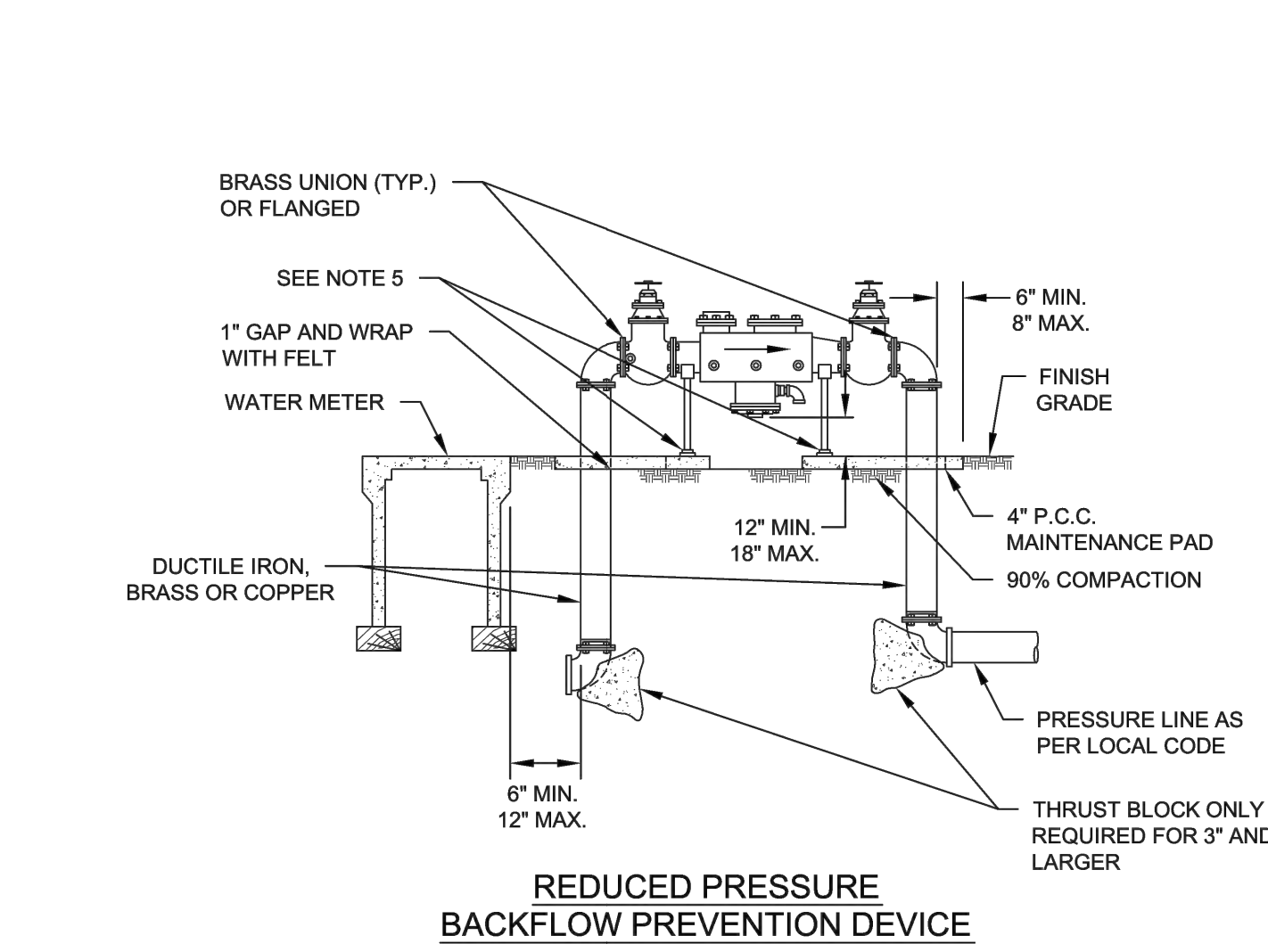
**D**  
**C702** CLEANOUT  
NOT TO SCALE

**E**  
**C702** P-6 SERIES AREA DRAIN  
NOT TO SCALE



**H**  
**C702** HOSE BIBB INSTALLATION  
NOT TO SCALE

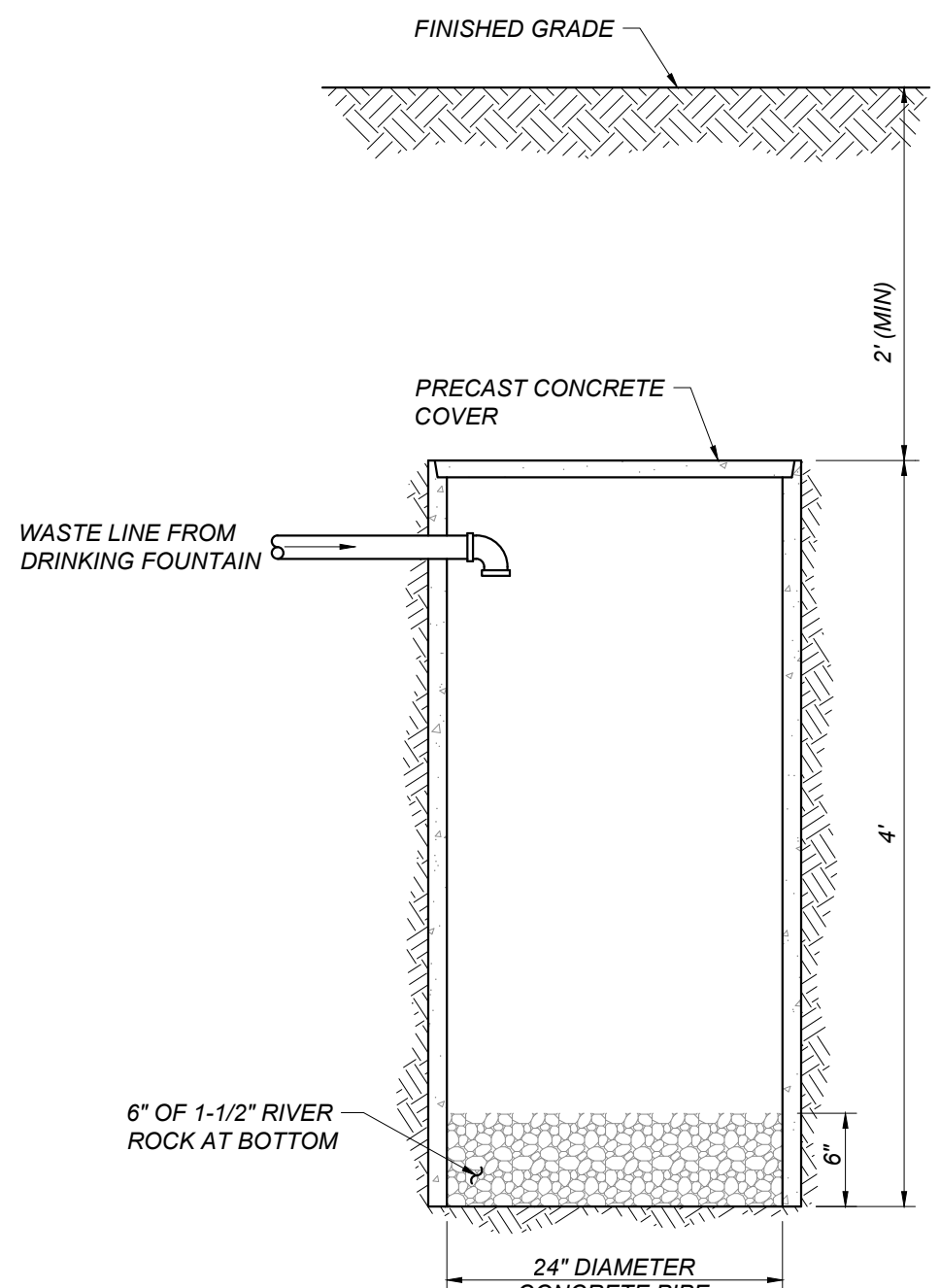
**F**  
**C702** DRINKING FOUNTAIN  
NOT TO SCALE



NOTES:

- ALL DOUBLE CHECK VALVE ASSEMBLIES AND REDUCED PRESSURE BACKFLOW PREVENTION DEVICES SHALL BE ON THE MOST RECENT LIST OF APPROVED BACKFLOW PREVENTION DEVICES AS PUBLISHED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES. VALVE ASSEMBLY SHALL BE DELIVERED TO THE PROJECT SITE AS A UNIT ASSEMBLED BY THE MANUFACTURER.
- CITY MAY REQUIRE TWO BACKFLOW PREVENTION DEVICES ON DOMESTIC SERVICE, WITH ONE TO SERVE AS A BYPASS FOR TESTING PURPOSES, IF WATER SERVICE CAN NOT BE SHUT OFF FOR MAINTENANCE OR IF TOXIC CHEMICALS ARE INVOLVED.
- BACKFLOW PREVENTION DEVICES SHALL BE ONLY REDUCED PRESSURE TYPES FOR ALL LANDSCAPE IRRIGATION APPLICATIONS.
- COPPER CONNECTIONS SHALL BE COMPRESSION FITTINGS OR SILVER SOLDER (MINIMUM 15% SILVER CONTENT). ALL COPPER SHALL BE RIGID TYPE K.
- PIPE SUPPORTS SHOULD BE USED IF THE PIPE IS 3" OR LARGER.
- THE DIAGRAMS DEPICT DOUBLE CHECK/REDUCED PRESSURE ASSEMBLIES LARGER THAN 1 INCH. COMPONENTS SHOWN ARE FOR INFORMATION ONLY.

**I**  
**C702** REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY  
(SCCD STANDARD DWG. NO. 330)



**G**  
**C702** DRY WELL  
NOT TO SCALE

AGENCY APPROVAL DSAP

196

185 CLARA STREET, SUITE 101A  
SAN FRANCISCO, CA 94107  
TEL 628.212.9200

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BLAIR, CHURCH & FLYNN  
451 CLOVIS AVENUE, SUITE 200  
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LANDSCAPE ENGINEER  
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ELECTRICAL ENGINEER

ATUM ENGINEERING  
3533 YORK LANE  
SAN RAMON, CA 94582  
TE (913)961-1658

CONSULTANT STAMP



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PROJECT OWNER & TITLE

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4000 Suisun Valley Rd, Fairfield  
Fairfield, CA 94534

**SAND VOLLEYBALL COMPLEX**  
4000 Suisun Valley Rd, Fairfield,  
CA 94534

SHEET TITLE

**DETAILS**

DRAWN BY:

TJ

JOB NUMBER:

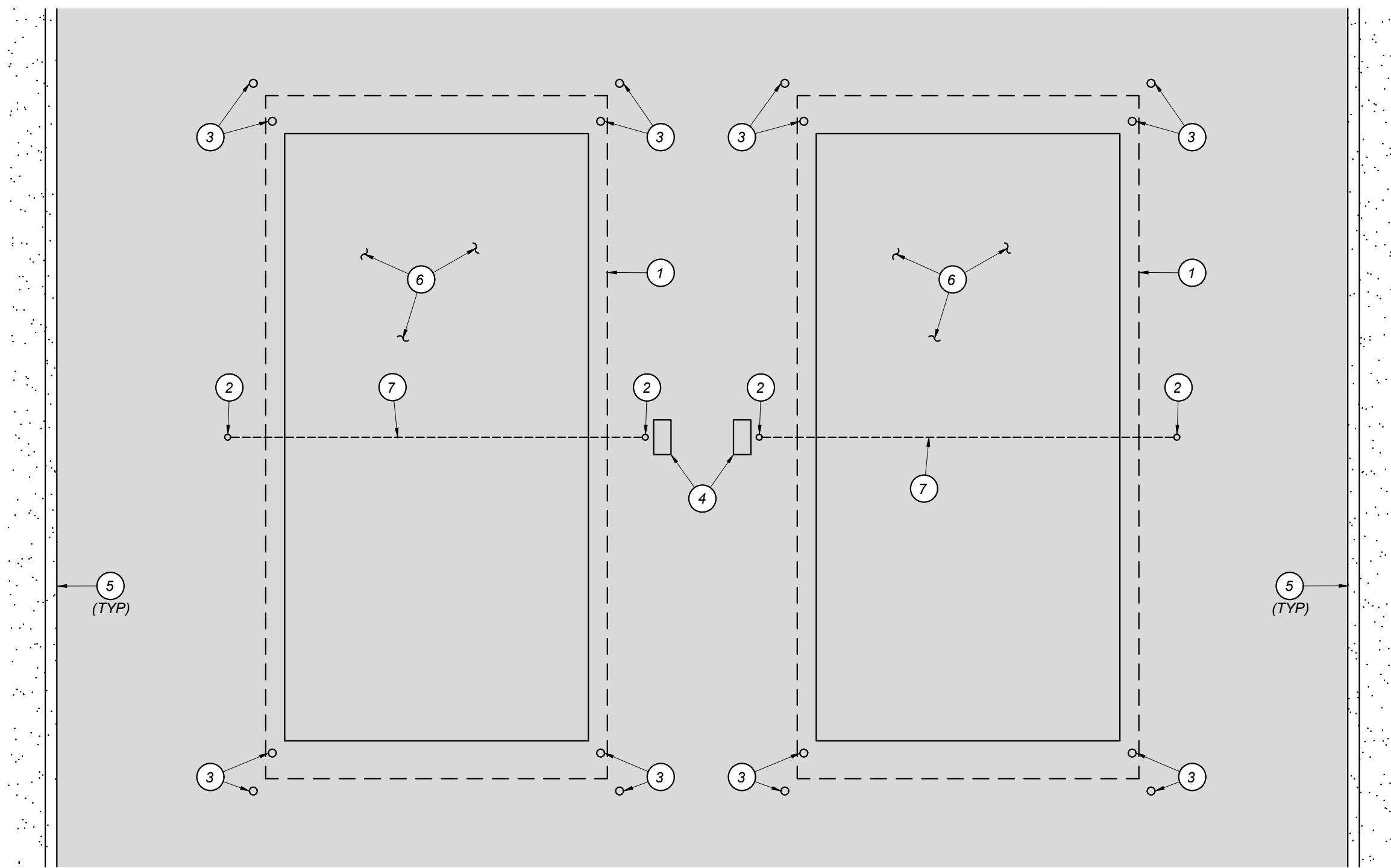
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SHEET NO.

C702

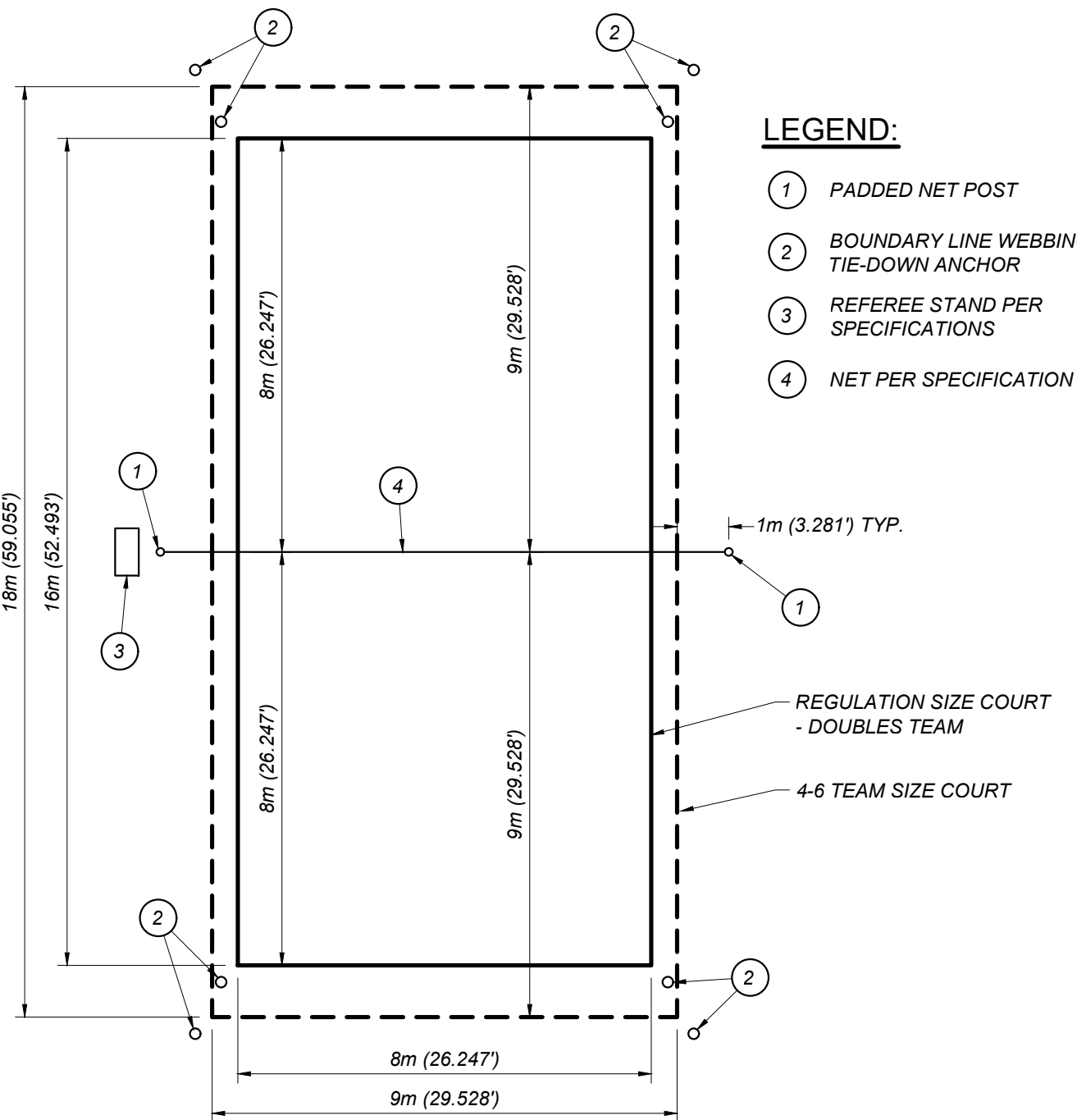
DATE: FEBRUARY 10, 2025



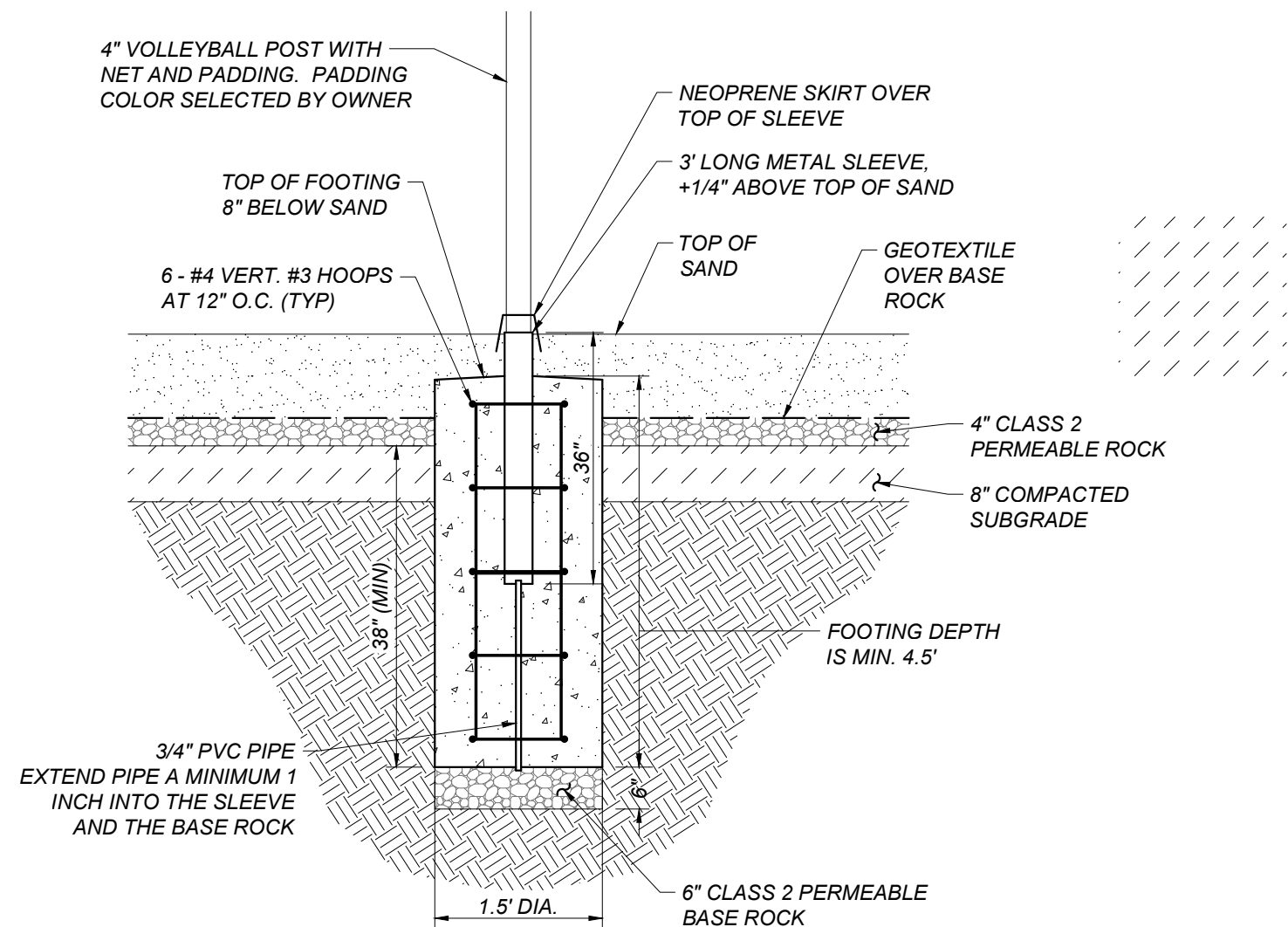


- LEGEND:**
- 1 SAND VOLLEYBALL LAYOUT PER (B/C703) AND GRADING PER (F/C703)
  - 2 VOLLEYBALL POST PER (C/C703)
  - 3 BOUNDARY LINE WEBBING TIE-DOWN ANCHOR PER (D/C703)
  - 4 REFEREE STAND AND PADDING PER SPECIFICATION SECTION 116833
  - 5 CONCRETE HEADER PER (E/C703)
  - 6 COURT SAND PER SPECIFICATION SECTION 116833
  - 7 VOLLEY BALL NET

- VOLLEYBALL NOTES:**
- SEE ATHLETIC EQUIPMENT SPECIFICATION SECTION 116833 FOR PRODUCT INFORMATION.
  - NON-WOVEN GEOTEXTILE SHALL MATCH MIRAFI 160N, OR ACCEPTED EQUAL.
  - SAND DEPTH SHALL BE A MINIMUM 12" DEPTH IN THE FREE AREA, AND A MINIMUM 18" DEPTH INSIDE COURT BOUNDARY.
  - COLOR SELECTIONS FOR NET AND PADDING SHALL BE SELECTED BY THE OWNER.



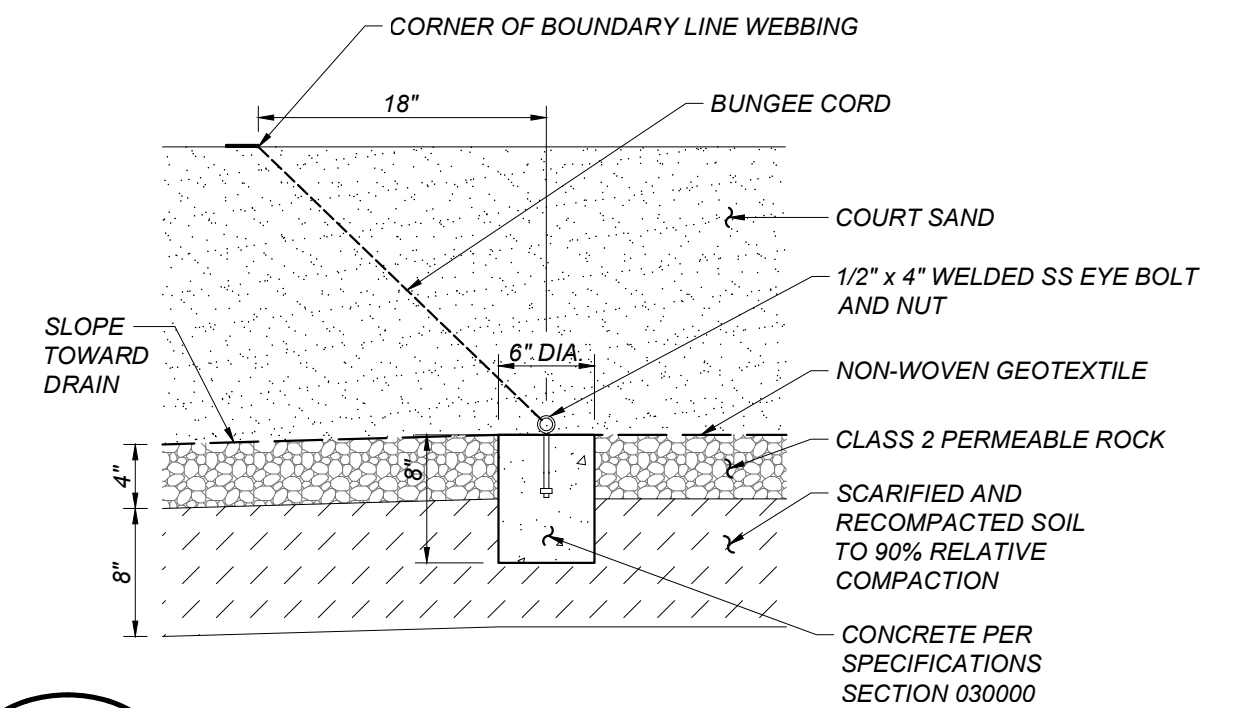
- LEGEND:**
- 1 PADDED NET POST
  - 2 BOUNDARY LINE WEBBING TIE-DOWN ANCHOR
  - 3 REFEREE STAND PER SPECIFICATIONS
  - 4 NET PER SPECIFICATION



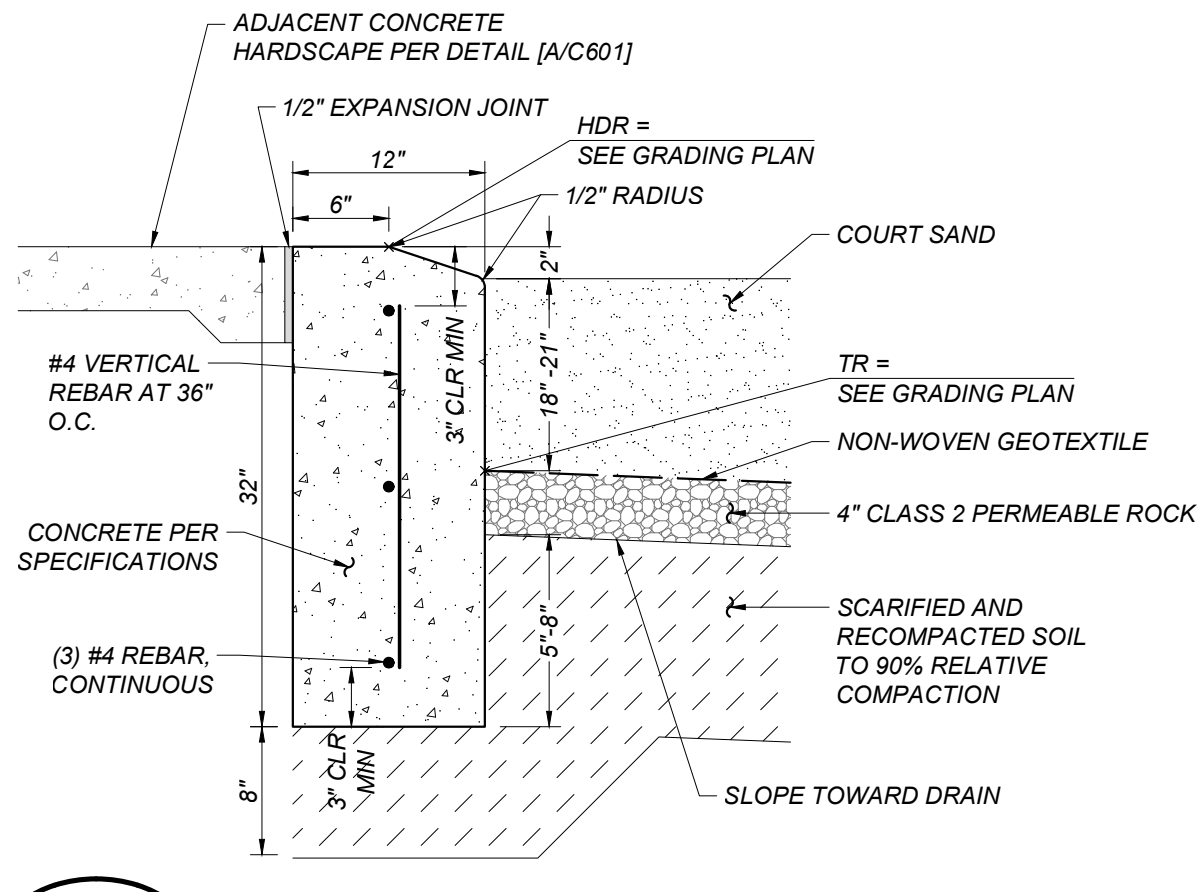
**A**  
**C703** TWO-COURT BEACH VOLLEYBALL PLAN VIEW  
NOT TO SCALE

**B**  
**C703** TYPICAL BEACH VOLLEYBALL COURT LAYOUT  
NOT TO SCALE

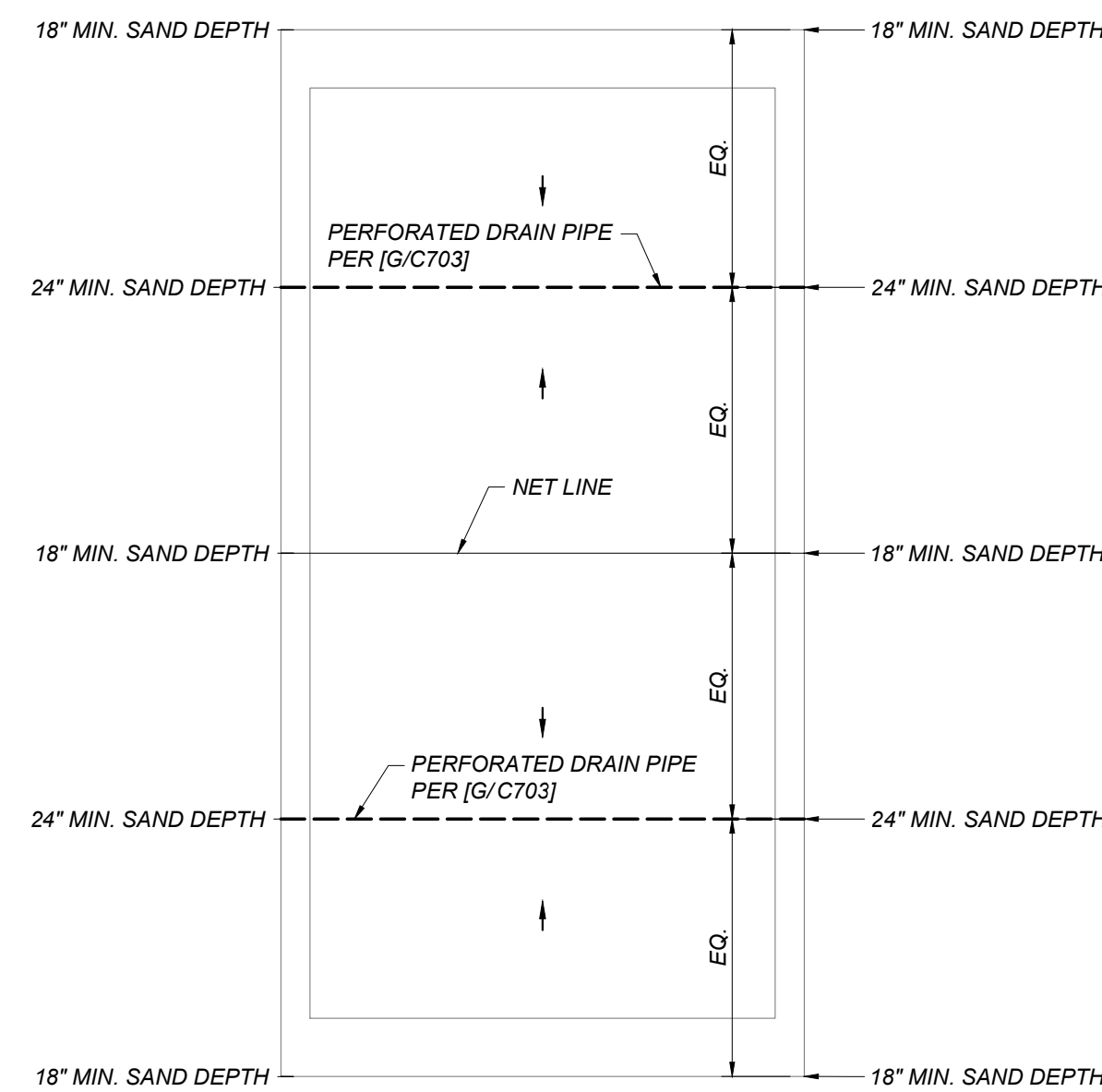
**C**  
**C703** VOLLEYBALL POST  
NOT TO SCALE



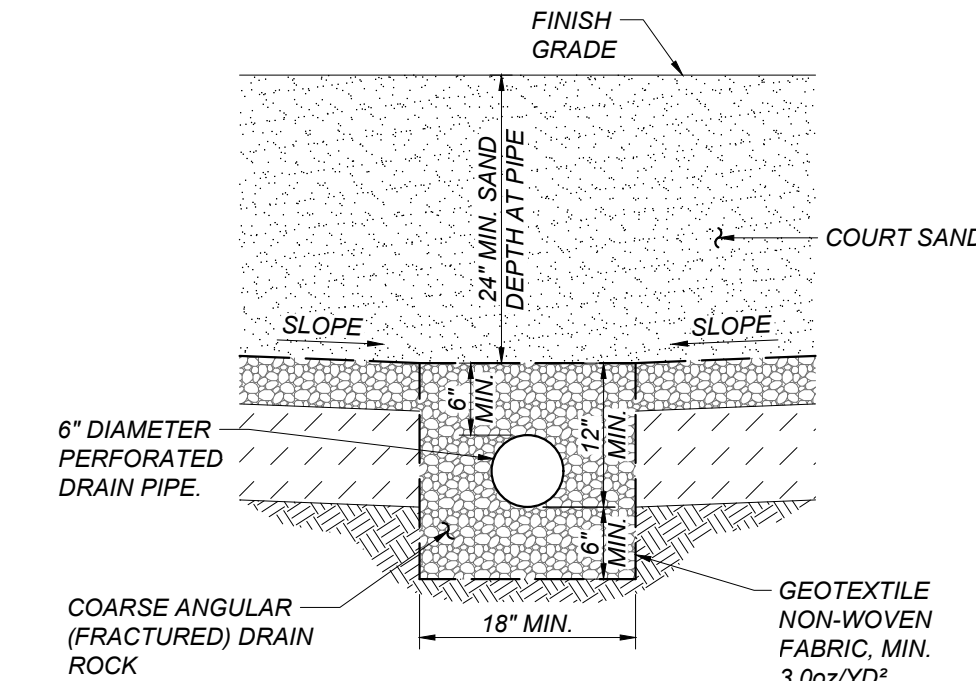
**D**  
**C703** TIE-DOWN ANCHOR BOLT  
NOT TO SCALE



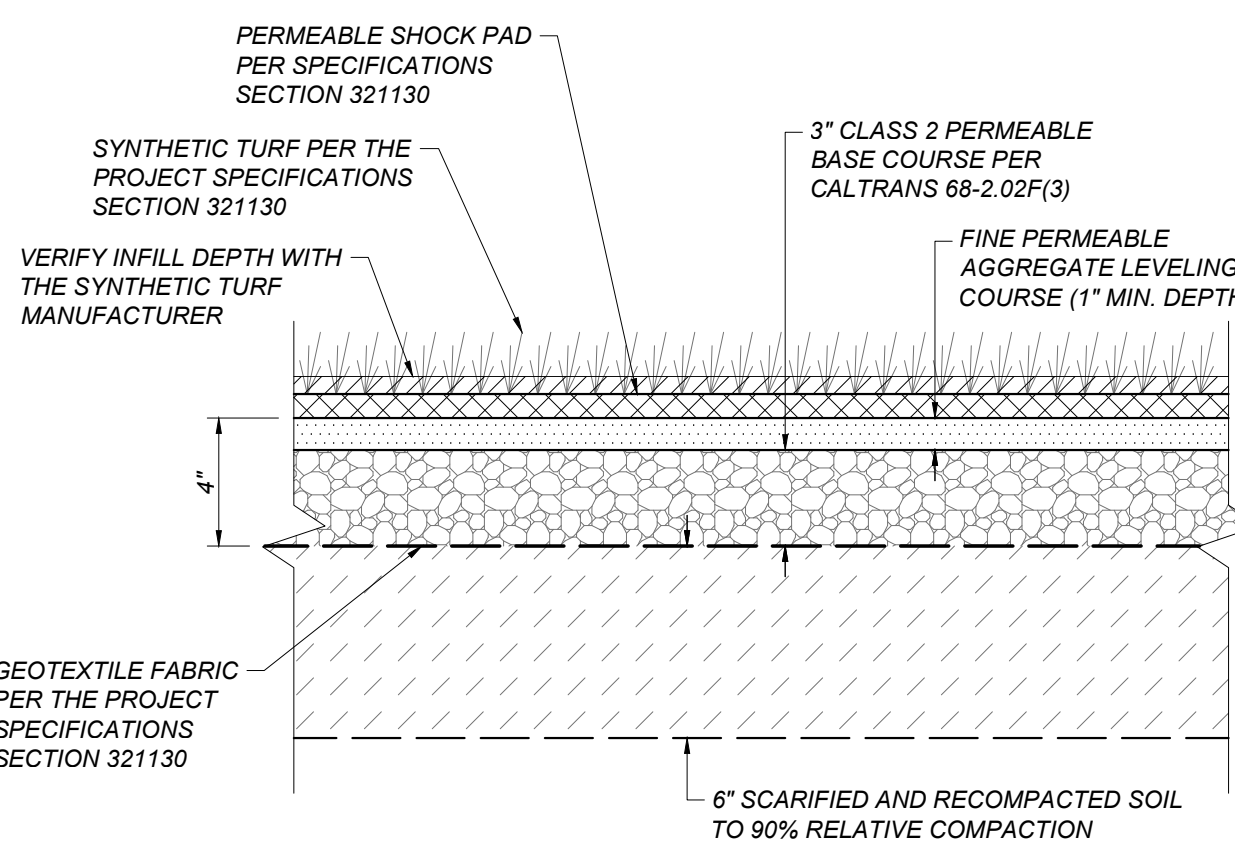
**E**  
**C703** VOLLEYBALL HEADER  
NOT TO SCALE



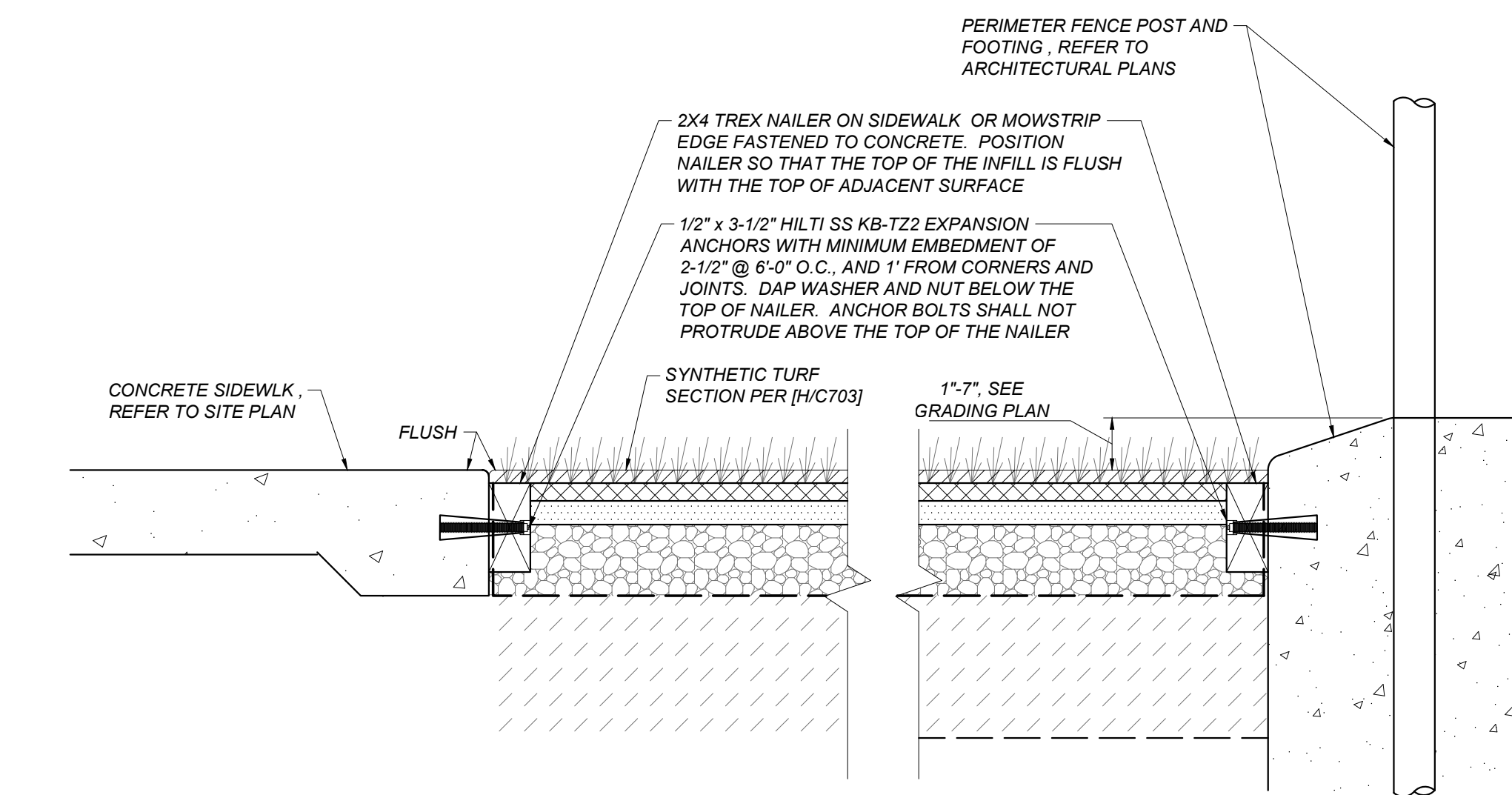
**F**  
**C703** TYPICAL VOLLEYBALL COURT GRADING AND DRAINAGE  
NOT TO SCALE



**G**  
**C703** PERFORATED DRAIN INSTALLATION  
NOT TO SCALE



**H**  
**C703** SYNTHETIC TURF SECTION  
NOT TO SCALE



**I**  
**C703** SYNTHETIC TURF NAILER AT CONCRETE HEADER  
NOT TO SCALE

AGENCY APPROVAL DSAP

**196**

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CA 94534

SHEET TITLE

**DETAILS**

DRAWN BY: TJ

JOB NUMBER: 240056

SHEET NO.

**C703**

DATE: FEBRUARY 10, 2025

FILE LOCATION: P:\25-4778\Site\Production\Drawings\224\179d03.dwg

PLOT BY: JDESIA

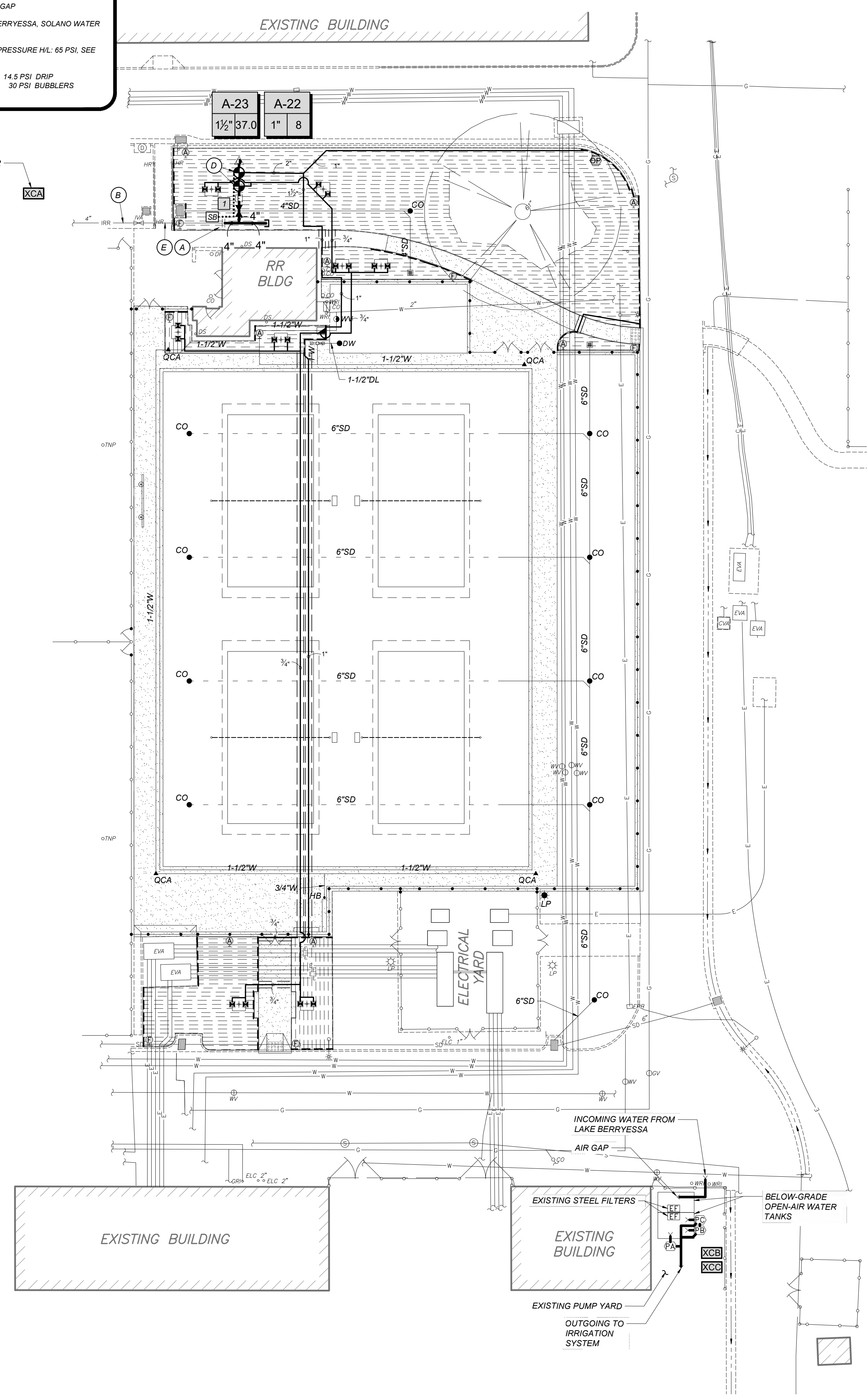
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CONSTRUCTION DOCUMENTS



**POINT OF CONNECTION**  
WATER SERVICE SIZE MAX FLOW: 4" / 480 GPM  
MAXIMUM STATION FLOW: 40.0 GPM  
IRRIGATION BACKFLOW SIZE: 10" AIR GAP  
IRRIGATION WATER SOURCE: LAKE BERRYESSA, SOLANO WATER DISTRICT  
MINIMUM EXISTING MINIMUM STATIC PRESSURE HL: 65 PSI, SEE IRRIGATION GENERAL NOTE #3  
MINIMUM OPERATING PRESSURE: 14.5 PSI DRIP  
30 PSI BUBBLERS

EXISTING CONTROLLER  
"A" IS LOCATED IN  
BUILDING 1400



**IRRIGATION LEGEND:**

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION  | ARC    | PSI | GPM | RADIUS | DETAIL |
|--------|---|--------|-----|-----|--------|--------|
| H      | ROOT WATERING SYSTEM 1402<br>RAIN BIRD RWS-B-C  | 360    | 30  | 0.5 | 3'     | J/L102 |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION  | DETAIL |     |     |        |        |
| E      | FLUSH VALVE ASSEMBLY<br>BALL VALVE WITH HOSE ADAPTER  | EL103  |     |     |        |        |
| A      | AIR RELIEF VALVE<br>RAIN BIRD ARV050 1/2IN., MADE OF QUALITY RUST-PROOF MATERIALS, WITH A 6IN. DRIP VALVE BOX (SEE 7XB EMITTER BOX). USE WITH INSTALLATION BELOW SOIL. THE VALVE WILL ALLOW AIR TO ESCAPE THE PIPELINE, THUS PREVENTING WATER HAMMER OR BLOCKAGE.                                   | FL103  |     |     |        |        |
| DP     | DRIP SYSTEM OPERATION INDICATOR<br>RAIN BIRD OPERIND, STEM RISES 6IN. FOR CLEAR VISIBILITY WHEN DRIP SYSTEM IS CHARGED TO A MINIMUM OF 20PSI. INCLUDES 16IN. OF 1/4IN. DISTRIBUTION TUBING WITH CONNECTION FITTING PRE-INSTALLED.   | DL103  |     |     |        |        |
|        | AREA TO RECEIVE DRIPLINE<br>AREA FOR DRIP LINE<br>RAIN BIRD XFS-04-12, XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY, 0.4 GPH EMITTERS AT 12" O.C. LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN, UV RESISTANT. SPECIFY XF INSERT FITTINGS. | CL103  |     |     |        |        |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION  | DETAIL |     |     |        |        |
|        | REMOTE CONTROL VALVE<br>GRISWOLD 2230-RE, SIZE AS NOTED. PRESSURE REDUCING, NORMALLY CLOSED REMOTE CONTROL VALVE. CAST IRON AND BRONZE MATERIAL. NPT END CONNECTION. WITH PURPLE HANDLE FOR RECLAIMED WATER, AND EPOXY COATING.   | HL102  |     |     |        |        |
|        | QUICK COUPLER<br>RAIN BIRD 33-DNP   | VL102  |     |     |        |        |
|        | GATE VALVE<br>NIBCO P-619-FW<br>4" VALVE W/ 2" NUT  | FL102  |     |     |        |        |
| XCA    | EXISTING CONTROLLER A<br>IN BUILDING 1400. TRADITIONAL RAIN BIRD CONTROLLER, 2104 STATIONS  |        |     |     |        |        |
| XCB    | EXISTING CONTROLLER B<br>LOCATED IN THE PUMP YARD TO THE SOUTHEAST OF THE VOLLEYBALL COURTS   |        |     |     |        |        |
| XCC    | EXISTING CONTROLLER C   |        |     |     |        |        |
| PA     | EXISTING PUMP A   |        |     |     |        |        |
| PB     | EXISTING PUMP B   |        |     |     |        |        |
| PC     | EXISTING PUMP C   |        |     |     |        |        |
| F      | IN-LINE FILTER<br>RAIN BIRD LCRBY2005, 2IN. MODEL. 120 MESH (130 MICRON) SCREEN FILTERS   | A/L103 |     |     |        |        |
| X      | CAP FOR FUTURE USE<br>CAP AT THE MAINLINE OR LATERAL LINE FOR FUTURE USE.   |        |     |     |        |        |
| SB     | SPURCE BOX  | KL102  |     |     |        |        |
|        | IRRIGATION LATERAL LINE: PVC SCHEDULE 40<br>PURPLE COLOR, BELL-END, SOLVENT WELD, SIZE AS NOTED   | CL102  |     |     |        |        |
|        | IRRIGATION MAINLINE: PVC C900 SDR 14 CLASS 305<br>PURPLE COLOR, SIZE AS NOTED   | CL102  |     |     |        |        |
|        | PIPE SLEEVE: PVC SCHEDULE 40<br>24" COVER UNDER ROADWAY PAVING, 18" COVER UNDER CONCRETE PAVING   | DL102  |     |     |        |        |
|        | DRIPLINE MANIFOLD: PVC SCHEDULE 40 PURPLE COLOR   | B/L103 |     |     |        |        |
|        | CONTROL WIRE PLUS ONE (1) COMMON WIRE   | C/L102 |     |     |        |        |
| #      | VALVE NUMBER  |        |     |     |        |        |
| #      | VALVE FLOW (GPM)  |        |     |     |        |        |
| #      | VALVE SIZE  |        |     |     |        |        |
| #      | NUMBER OF SPARE CONTROL WIRE PLUS ONE (1) SPARE COMMON WIRE.<br>PROVIDE A 10 FOOT LOOP IN VALVE BOX   |        |     |     |        |        |
| +      | PROPOSED TREE. SEE PLANTING PLAN ON SHEET L201 FOR VARIETY AND SIZE   |        |     |     |        |        |
| A      | CONNECT NEW MAIN LINE TO EXISTING TRANSITE MAIN LINE; TOP OF NEW MAIN LINE SHALL BE 24" BELOW FINISH SURFACE  |        |     |     |        |        |
| B      | EXISTING TRANSITE IRRIGATION MAIN LINE SHALL REMAIN.<br>PROTECT IN PLACE  |        |     |     |        |        |
| C      | PIPE SHOWN OUTSIDE OF PLANTER FOR CLARITY. INSTALL PIPE WITHIN PLANTER. SEE GENERAL IRRIGATION NOTE #8  |        |     |     |        |        |
| D      | CONNECT NEW IRRIGATION CONTROL VALVES TO EXISTING SPARE WIRE SALVAGED FROM DEMOLITIONED IRRIGATION CONTROL VALVES IN THIS AREA  |        |     |     |        |        |

**WATER CONSERVATION COMPLIANCE STATEMENT:**

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.  
*[Signature]*  
CATO M. HESKETT, FLA 0932

**CERTIFICATE OF COMPLETION REQUIREMENTS:**

PER MWEO SECTION 492.9, UPON COMPLETION OF THE LANDSCAPE PLANTING AND IRRIGATION SYSTEM, AND AS A CONDITION OF FINAL ACCEPTANCE AND/OR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE LICENSED LANDSCAPE CONTRACTOR SHALL SUBMIT TO THE CITY AND TO THE OWNER THE FOLLOWING ITEMS IN A FORM ACCEPTABLE TO THE CITY:

- PROJECT INFORMATION AND CONTACT INFORMATION FOR THE OWNER AND APPLICANT.
- A CERTIFICATION THAT THE INSTALLATION COMPLIES WITH THE APPROVED DOCUMENTATION PACKAGE.
- IRRIGATION SCHEDULING PARAMETERS USED IN PROGRAMMING THE CONTROLLER.
- A PLANTING AND IRRIGATION MAINTENANCE SCHEDULE.
- AN IRRIGATION AUDIT REPORT PREPARED BY A CERTIFIED LANDSCAPE IRRIGATION AUDITOR.
- A HORTICULTURAL SOILS ANALYSIS REPORT AND RECOMMENDATIONS IF NOT SUBMITTED EARLIER WITH THE LANDSCAPE DOCUMENTATION PACKAGE.
- DOCUMENTATION IN THE FORM OF MATERIAL RECEIPTS, INVOICES AND/OR OTHER DOCUMENTS THAT THE RECOMMENDATIONS OF THE HORTICULTURAL SOILS ANALYSIS REPORT AS MODIFIED AND APPROVED BY THE LANDSCAPE ARCHITECT HAVE BEEN IMPLEMENTED AND INSTALLED.

**CONTRACTOR SPECIAL IRRIGATION NOTES:**

- THE CONTRACTOR SHALL PERFORM AN OPERATIONAL ASSESSMENT OF THE EXISTING IRRIGATION SYSTEM WITHIN THE AREA OF WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING PLANTING SCHEDULED TO REMAIN SHALL CONTINUE TO BE IRRIGATED THROUGHOUT THE COURSE OF CONSTRUCTION OPERATIONS. ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM THAT IMPACTS EXISTING PLANTING TO REMAIN SHALL BE IMMEDIATELY REPAIRED TO THE OWNER'S SATISFACTION.
- PRIOR TO THE START OF ANY SHRUB, GROUND COVER, AND/OR TURFGRASS PLANTING, AN OPERATIONAL REVIEW OF THE IRRIGATION SYSTEM SHALL BE PERFORMED FOR PROPER COVERAGE AND SOIL MOISTURE DEPTH BY THE OWNER'S REPRESENTATIVE. ALL CORRECTIONS AND/OR ADJUSTMENTS SHALL BE COMPLETED AND VERIFIED BY THE OWNER'S REPRESENTATIVE BEFORE GROUND LEVEL PLANTING MAY COMMENCE.
- THE ORIGINAL IRRIGATION SYSTEM OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
- THE AS-BUILT RECORD DRAWING SET AND OTHER CLOSE-OUT ITEMS SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.
- UNLESS NOTED OTHERWISE, SALVAGE AND RETURN TO THE OWNER ALL IRRIGATION VALVES, HEADS AND OTHER EQUIPMENT COMPONENTS REMOVED AS PART OF THE WORK. SALVAGED COMPONENTS SHALL BE CLEAN AND IN WORKING CONDITION UNLESS NOTED AS NON-OPERATIONAL DURING THE OPERATIONAL ASSESSMENT.

| WATER EFFICIENT LANDSCAPE WORKSHEET                        |  | 224-0178 |
|--|--|----------|
| Educational - DSA PR 15-03                                 |  |          |
| Project: Solano Community College Beach Volleyball Complex |  |          |
| Location: 4000 Suisun Valley Road, Fairfield, CA 94534     |  |          |
| Eto Reference (MWEO-Appdx. A): Fairfield                   |  |          |

| MAWA = MAXIMUM APPLIED WATER ALLOWANCE (1,000 GALLONS) |           |                                       |
|--|-----------|---------------------------------------|
| TOTAL NEW BUILDING FOOTPRINT                           | 0 SF      | (1,600 sf is threshold for inclusion) |
| 75% OF BLDG. SF REQ'D LANDSCAPE                        | 0 SF      |                                       |
| EXIST. IRRIGATION REMOVED FROM SERVICE                 | 6,379 SF  |                                       |
| REGULAR LANDSCAPE AREA                                 | 6,761 SF  | (landscape area >500 sf)              |
| SPECIAL LANDSCAPE AREA (SLA)                           | 0 SF      |                                       |
| TOTAL PROPOSED LANDSCAPE AREA (LA)                     | 6,761 SF  |                                       |
| TOTAL OVER (UNDER) REQUIRED AREA                       | 13,140 SF |                                       |

| NORMAL YEAR REFERENCE                   | ANNUAL |
|---|--------|
| EVAPOTRANSPIRATION (ETO)                | 45.2   |
| EFFECTIVE PRECIPITATION (25% OF ANNUAL) | 0.0    |
| ADJUSTED EVAPOTRANSPIRATION             | 45.2   |

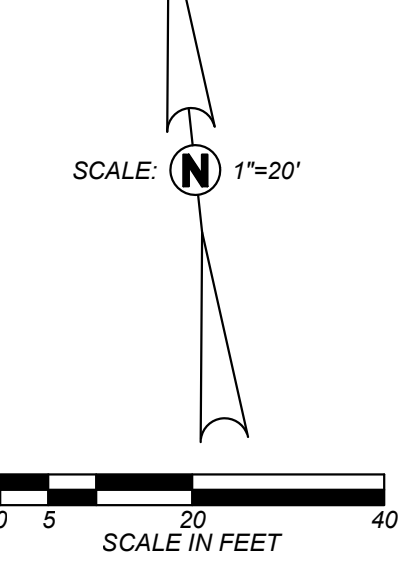
|   |        |                     |
|---|--------|---------------------|
| MAWA=(ETO) x (0.62) [(HA x PF)(IE) + SLA] | ANNUAL | 2015 DWR/DSA Update |
| MAX. APPLIED WATER ALLOWANCE              | 123.2  | K Gallons           |
| TOTAL IN ACRE/FT                          | 0.4    |                     |
| TOTAL IN CCF                              | 164.6  |                     |

| ETWU = ESTIMATED TOTAL WATER USE (1,000 GALLONS) |        |                          |     |      |      |
|--|--------|--------------------------|-----|------|------|
| LANDSCAPE HYDROZONE TYPES                        | 6,761  | HA                       | PF  | IE   | ETAF |
| MIXED PLANTING (L)                               | 6,761  | SF                       | 0.3 | 0.81 | 0.37 |
| MIXED PLANTING (M)                               | 0      | SF                       | 0.5 | 0.81 | 0.62 |
| WARM-SEASON TURFGRASS (MH)                       | 0      | SF                       | 0.6 | 0.75 | 0.80 |
| SLA - RECREATIONAL/RECYCLED WATER USE            | 0      | SF                       | 0.6 | 0.75 | 0.80 |
| AVERAGE REGULAR ETAF:                            |        |                          |     |      | 0.37 |
| MAXIMUM AVERAGE REGULAR ETAF:                    |        |                          |     |      | 0.65 |
| AVERAGE SITEWIDE ETAF:                           |        |                          |     |      | 0.37 |
| ETWU=(ETO) x (0.62) [(HA x PF)(IE) + SLA]        | ANNUAL | Typical IE coefficients  |     |      |      |
| MIXED PLANTING (L)                               | 70.2   | 0.75 overhead sprinklers |     |      |      |
| MIXED PLANTING (M)                               | 0.0    | 0.81 drip & bubblers     |     |      |      |
| WARM-SEASON TURFGRASS (M)                        | 0.0    |                          |     |      |      |
| SLA - RECREATIONAL/RECYCLED WATER USE            | 0.0    |                          |     |      |      |
| ESTIMATED TOTAL WATER USE                        | 70.2   | K Gallons                |     |      |      |
| TOTAL IN ACRE/FT                                 | 0.2    |                          |     |      |      |
| TOTAL IN CCF                                     | 93.8   |                          |     |      |      |

ETWU AS A PERCENT OF MAWA: 57%

| IRRIGATION SYSTEM OBSERVATION LOG   |   |   |           |
|---|---|---|-----------|
| ITEM NO.  | WORK ITEM DESCRIPTION                         | REVIEWED & ACCEPTED BY OWNER'S REP OR LAND ARCH |           |
|   |   | PRINT NAME                                      | SIGNATURE |
|   |   |   | DATE      |
| IR-1  | EXISTING SYSTEM OPERATION & PRESSURE CHECK    |   |           |
| IR-2  | PIPING/WIRE SLEEVES UNDER PAVEMENT            |   |           |
| IR-3  | MAIN LINE INSTALLATION & PRESSURE TEST        |   |           |
| IR-4  | VALVE INSTALLATIONS                           |   |           |
| IR-5  | IRRIGATION COVERAGE PRIOR TO PLANTING         |   |           |
| IR-6  | CONTROL EQUIPMENT INSTALLATION                | N/A   | N/A       |
| IR-7  | BOOSTER PUMP INSTALLATION & START-UP (MANUF.) | N/A   | N/A       |
| IR-8  | FINAL SYSTEM OPERATION REVIEW                 |   |           |
| NOTE: THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET. WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED. |   |   |           |

**SEE SHEET L102-L103 FOR IRRIGATION NOTES AND DETAILS**



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REVISIONS

| NO. | DATE     | DESCRIPTION   |
|-----|----------|---------------|
| 1   | 05.13.25 | ISSUE FOR BID |

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Fairfield, CA 94534

**SAND VOLLEYBALL COMPLEX**  
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CA 94534

SHEET TITLE  
**IRRIGATION PLAN**

DRAWN BY: CMH JOB NUMBER: 240056

SHEET NO.  
**L101**  
DATE: FEBRUARY 10, 2025

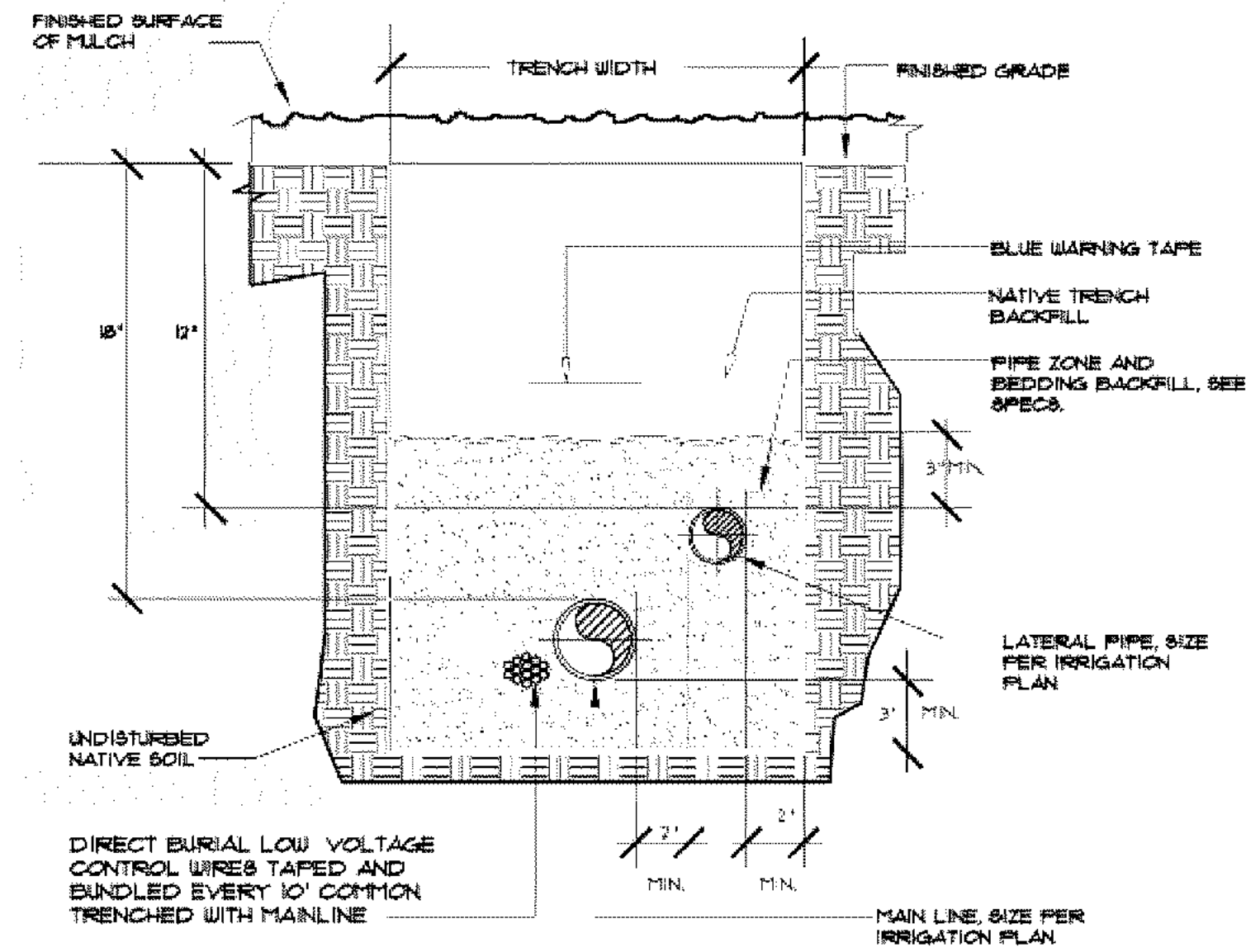
CONSTRUCTION DOCUMENTS



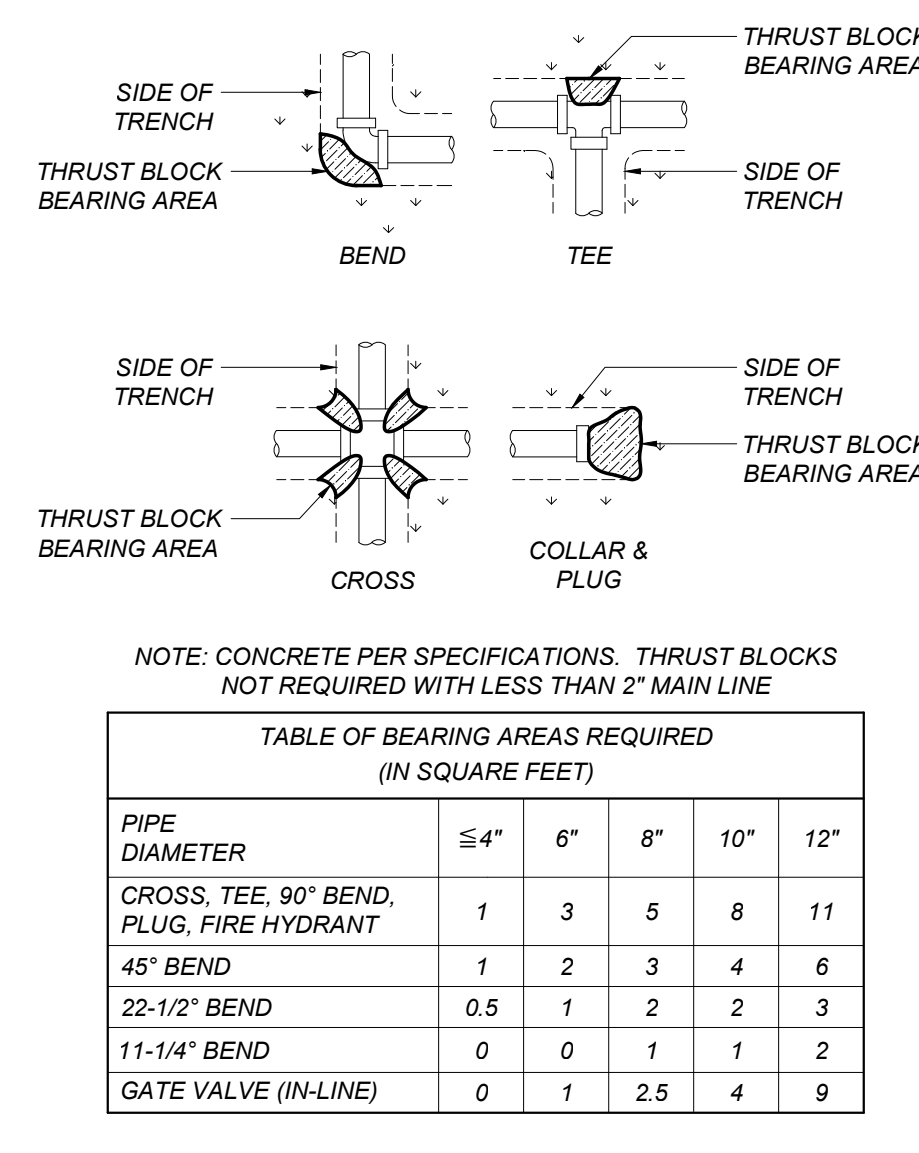
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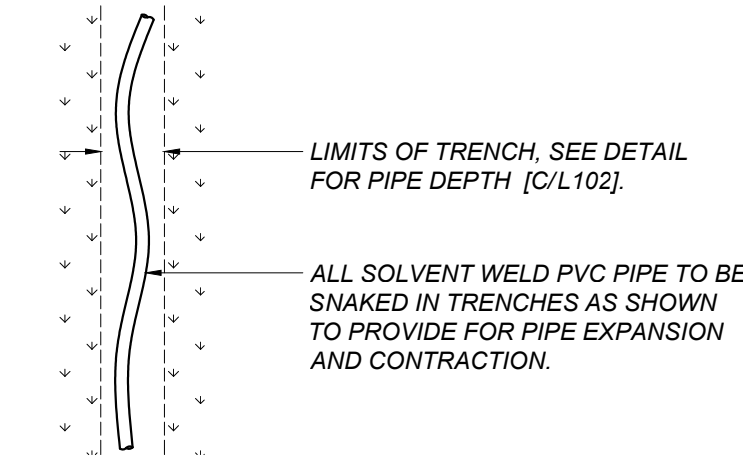
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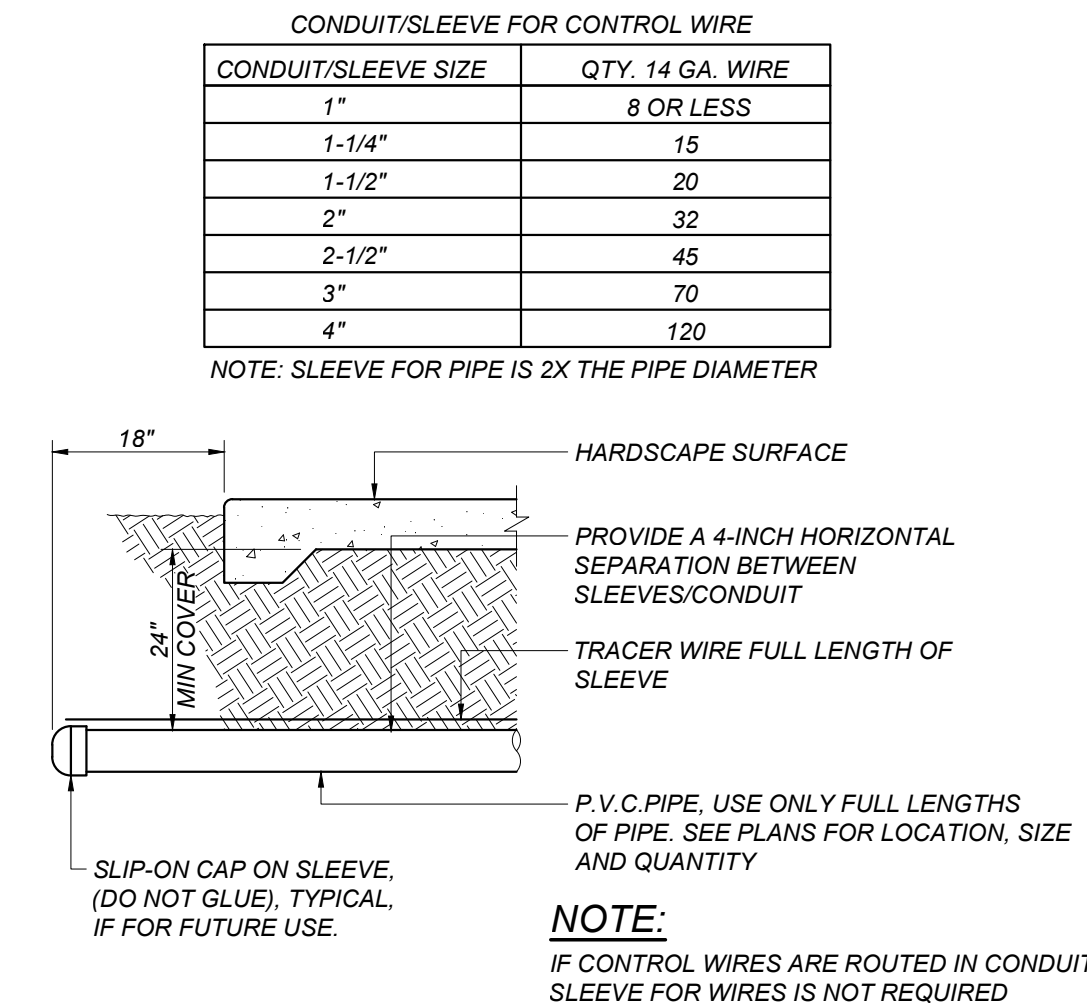
A  
L102  
TYPICAL COMBINATION TRENCH  
NOT TO SCALE



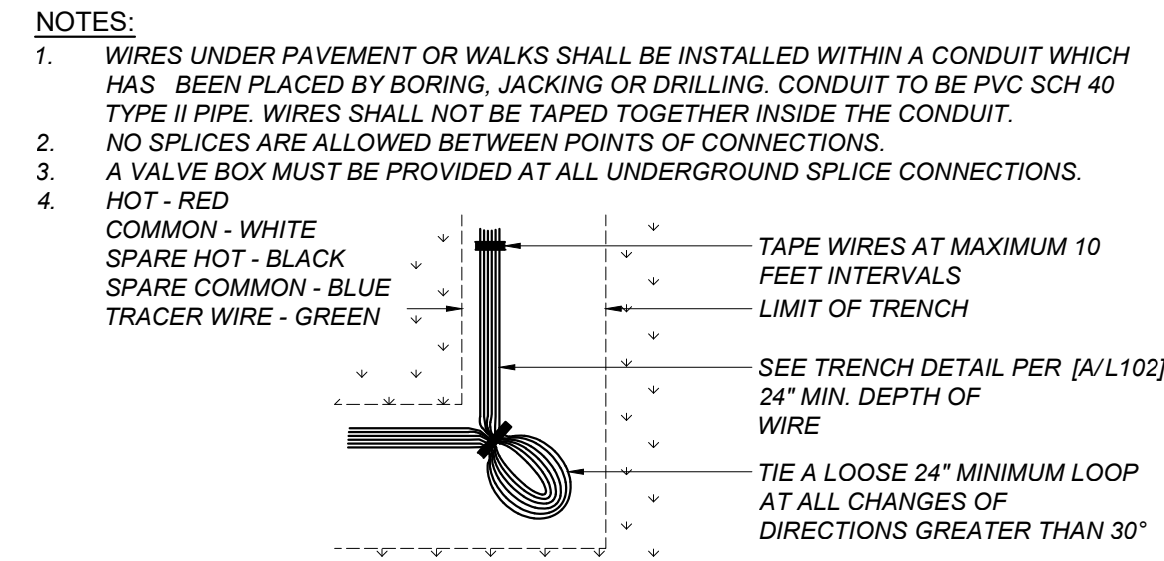
B  
L102  
CONCRETE THRUST BLOCKS  
NOT TO SCALE



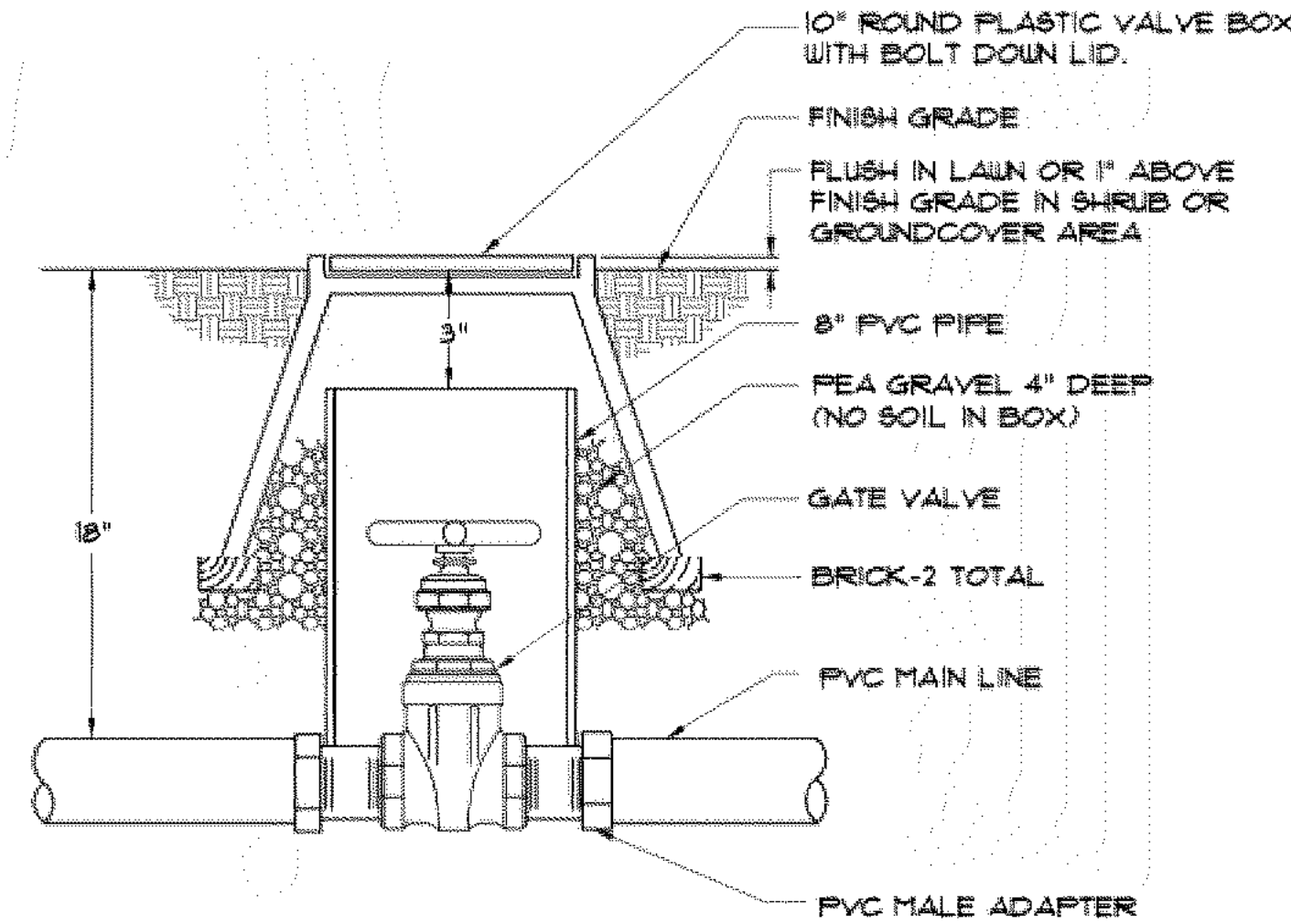
C  
L102  
SOLVENT WELD PIPE  
NOT TO SCALE



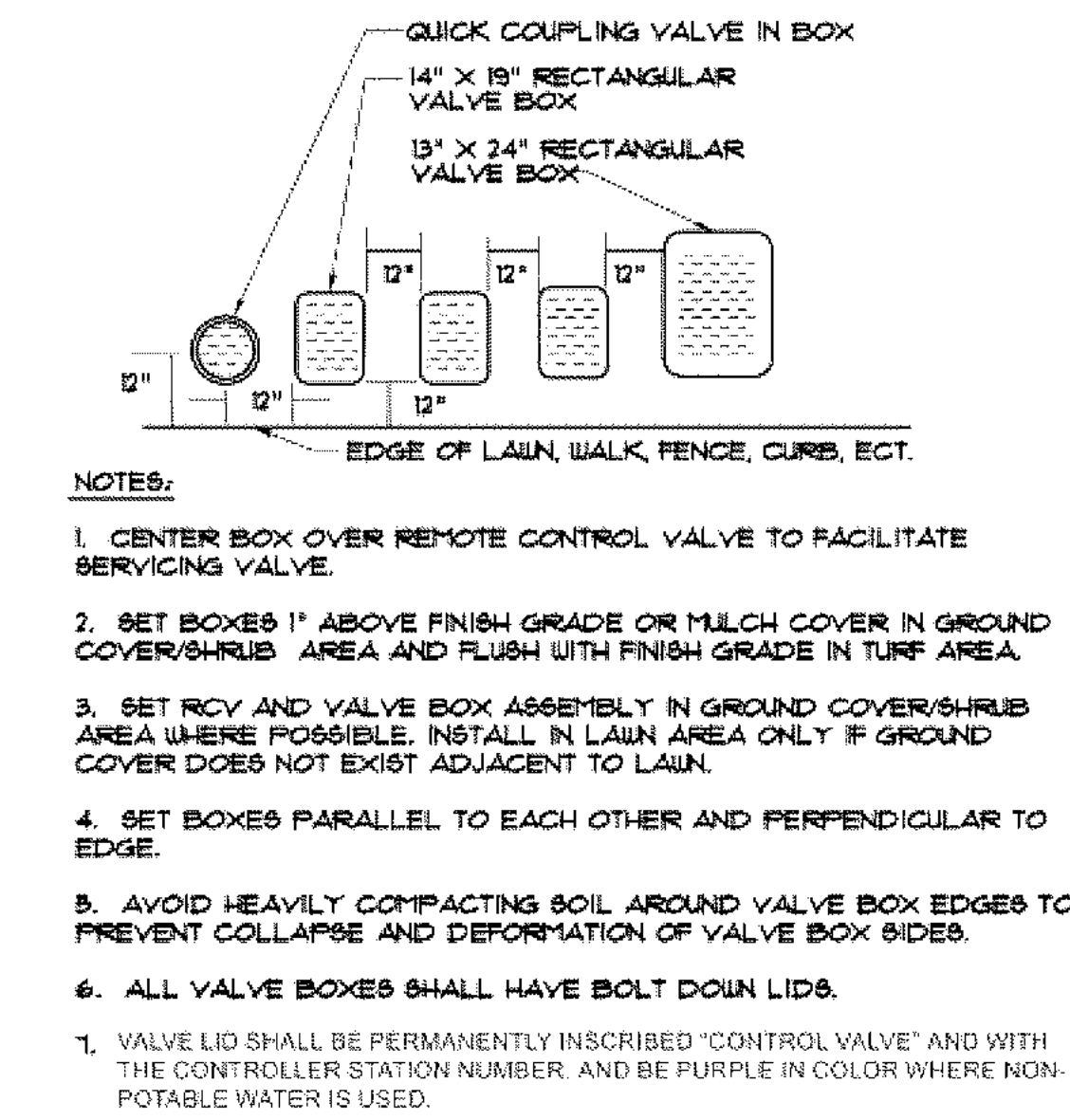
D  
L102  
IRRIGATION SLEEVE/CONDUIT  
NOT TO SCALE



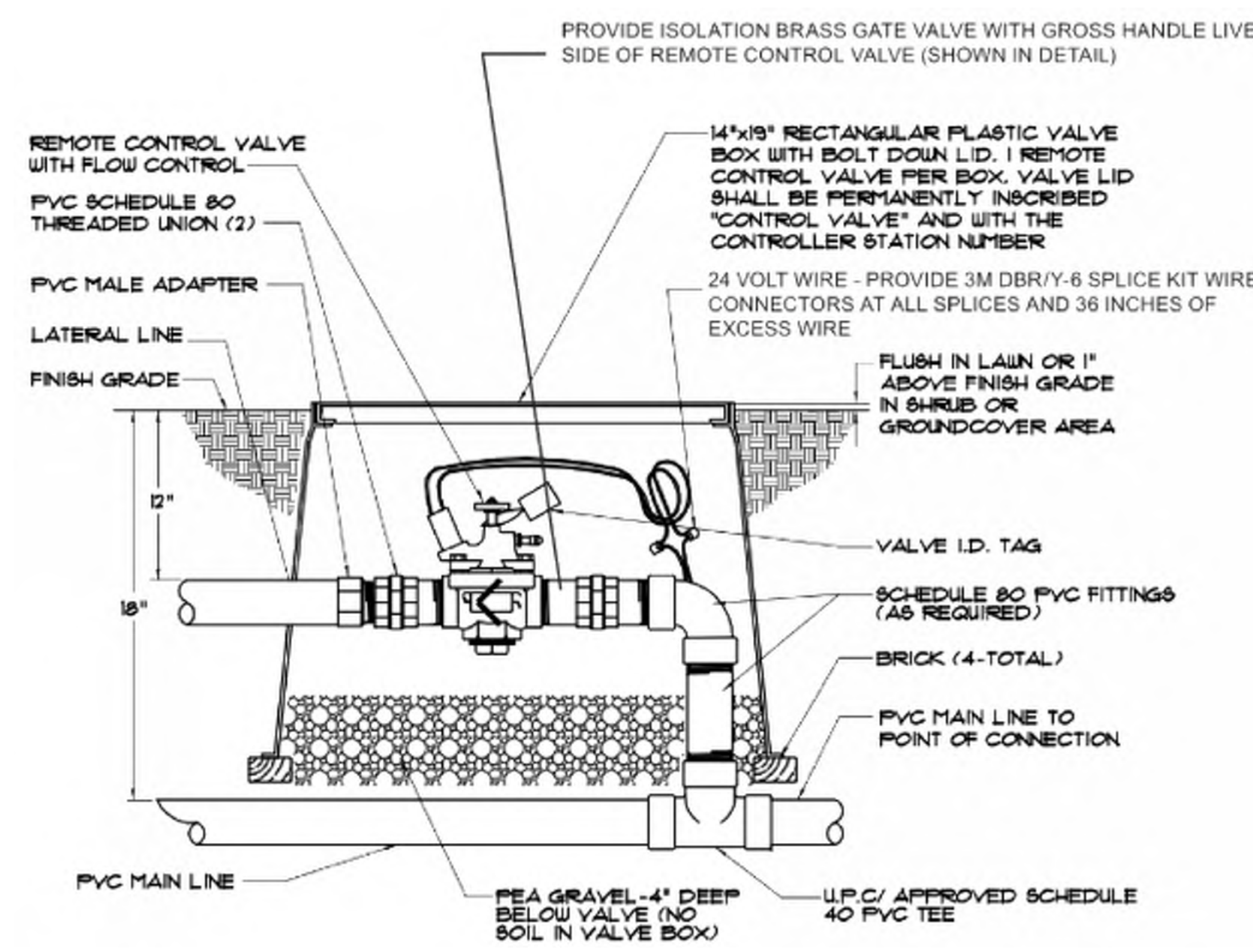
E  
L102  
IRRIGATION WIRE  
NOT TO SCALE



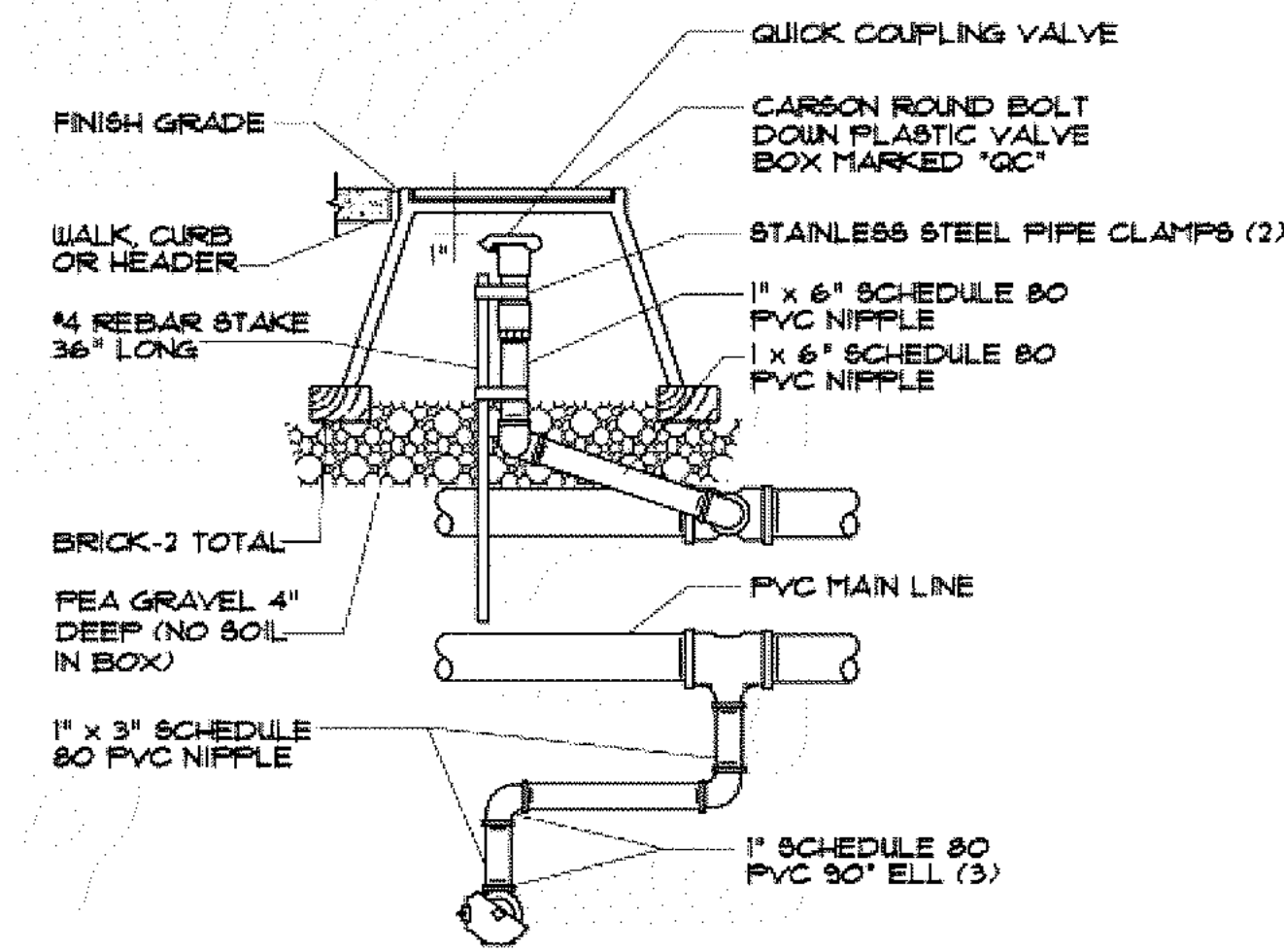
F  
L102  
GATE VALVE INSTALLATION  
NOT TO SCALE



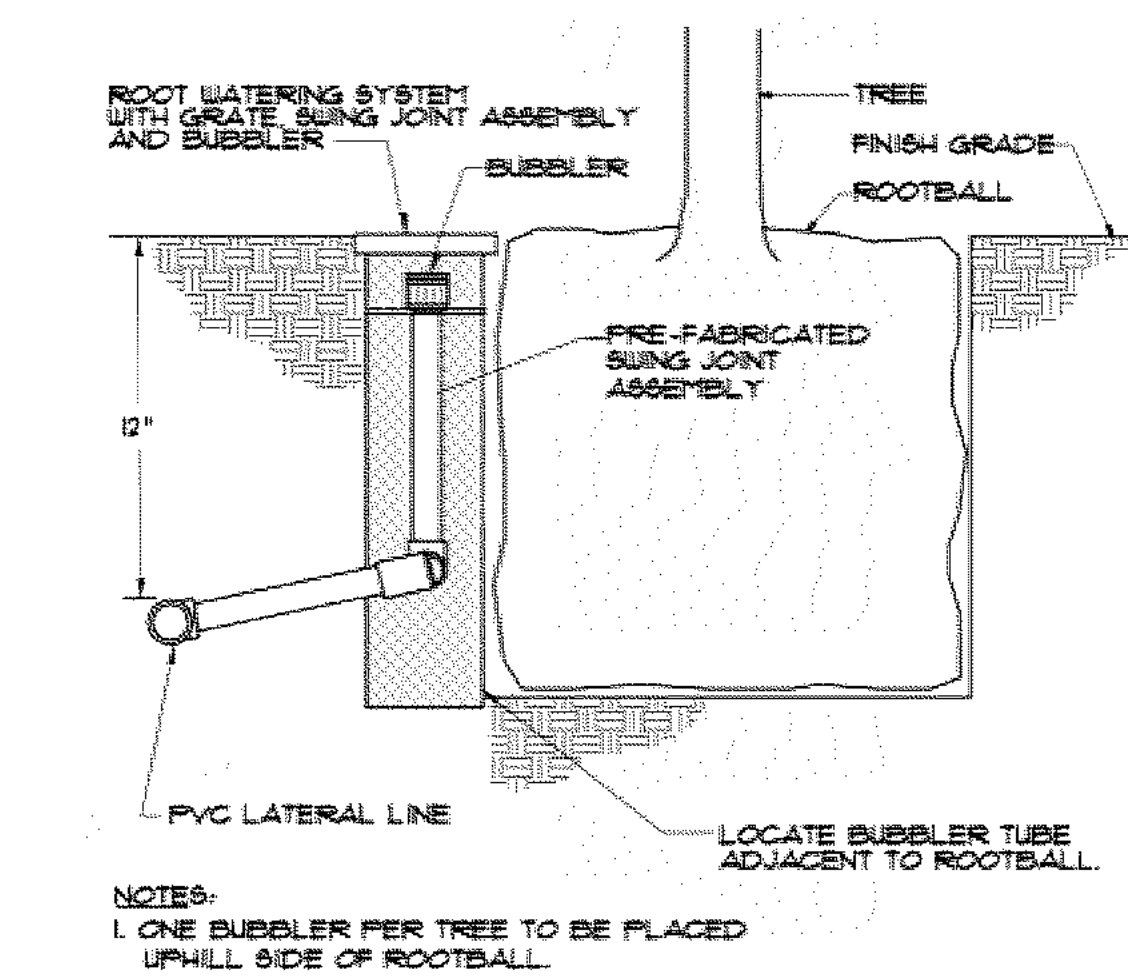
G  
L102  
VALVE BOX INSTALLATION  
NOT TO SCALE



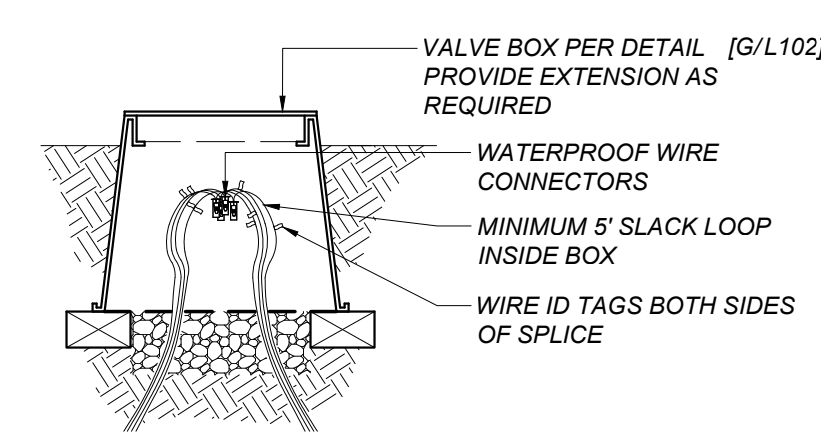
H  
L102  
REMOTE CONTROL VALVE INSTALLATION  
NOT TO SCALE



I  
L102  
1" QUICK COUPLER IN BOX  
NOT TO SCALE



J  
L102  
TREE BUBBLER INSTALLATION  
NOT TO SCALE



K  
L102  
SPICEBOX  
NOT TO SCALE

SEE SHEET L101 FOR  
IRRIGATION PLAN

AGENCY APPROVAL    DSAF

196

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SHEET TITLE  
**IRRIGATION DETAILS**

DRAWN BY: CMH    JOB NUMBER: 240056

SHEET NO.  
**L102**

DATE: FEBRUARY 10, 2025

CONSTRUCTION DOCUMENTS



FILE LOCATION: P:\2024\1785\ProductionDrawings\224178.dwg  
PLOT BY: CHS/KVT  
DATE PLOTTED: 2/26/2025 4:51:08PM

GENERAL IRRIGATION NOTES:

- ALL ITEMS IN THE LEGEND ARE TO BE FURNISHED AND INSTALLED, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL FURNISH THE ARTICLES, EQUIPMENT, MATERIALS OR PROCESSES SPECIFIED BY NAME. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER. (ALL MATERIAL REQUIRED SHALL BE NEW AND OF THE BEST QUALITY AVAILABLE.)
- THE DESIGN ENGINEER RESERVES THE RIGHT TO REJECT ANY MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE CONTRACT PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER.
- PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY THE EXISTING SYSTEM COMPONENTS' LOCATION, SIZES AND ROUTING FOR BACKFLOW PREVENTERS, CONTROLLERS, MAIN AND LATERAL PIPING, VALVES, SPRINKLER HEADS AND CONTROL WIRE, AND SHALL CONFIRM THEIR OPERATIONAL STATUS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AT THE POINT-OF-CONNECTION. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE BEFORE STARTING WORK OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS, OR NECESSARY REPAIRS TO THE EXISTING SYSTEM, SHALL MAKE THE CONTRACTOR RESPONSIBLE TO PROVIDE, AT HIS OWN EXPENSE, ANY CORRECTIVE WORK OR COMPONENTS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM WITH FULL COVERAGE.
- THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND KEEP ANY EXISTING IRRIGATION SYSTEM SCHEDULED TO REMAIN OPERATIONAL AT ALL TIMES DURING THE COURSE OF THIS WORK. THE CONTRACTOR SHALL REPLACE ANY PLANTS DEAD OR DISTRESSED DUE TO THE INTERRUPTION OF EXISTING IRRIGATION SCHEDULES AND SHALL PERFORM ALL WORK NECESSARY TO MAINTAIN THE EXISTING SYSTEMS OPERATIONAL.
- THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UTILITIES. UTILITIES SHOWN ARE FOR THE CONTRACTOR'S AWARENESS AND NO SURVEY HAS BEEN COMPLETE TO VERIFY THE ACCURACY OF THE UTILITIES SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGED UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS SHOWN AND TO ADJUST SAID DIMENSIONS TO FIT SITE CONDITIONS AND ACTUAL EQUIPMENT INSTALLED.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION FACILITIES AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
- THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND HEADS SHALL BE LOCATED IN PLANTING AREAS WHENEVER POSSIBLE.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY MEASURES TO WARN AND PROTECT THE PUBLIC, OTHER SITE CONTRACTORS AND HIS WORKERS FROM POSSIBLE INJURY DUE TO HIS CONSTRUCTION EQUIPMENT AND OPERATIONS.
- DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL HIS WORK, AND PLAN HIS WORK ACCORDINGLY. FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO INSTALL THE PROPOSED FACILITIES AND ACCOMMODATE THE SITE CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE DONE TO PROVIDE A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM. ALL WORK TO BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, LOCAL CODES AND ORDINANCES.
- VALVES SHALL BE LOCATED IN SHRUB/GROUND COVER AREAS INSTEAD OF IN TURFGRASS AREAS WHENEVER POSSIBLE. VALVES IN ATHLETIC SPORTS FIELDS SHALL BE LOCATED OUTSIDE OF THE FIELD-OF-PLAY TO THE GREATEST EXTENT POSSIBLE.
- THE CONTRACTOR SHALL REPLACE ANY EXISTING PLANTS SCHEDULED TO REMAIN (SEE LANDSCAPE PLANS) THAT ARE DAMAGED BY THIS WORK WITH NEW PLANTS OF THE SAME SPECIES/VARIETY AND SIZE AS THE ORIGINAL.
- ANY EXISTING TURFGRASS REMOVED FOR THIS WORK SHALL BE REPLANTED IF VIABLE, OR NEW SOD OF THE SAME SPECIES/VARIETY INSTALLED. THE UPPER 6 INCHES OF THE COMPACTED TRENCH BACKFILL SHALL BE CONDITIONED PER LANDSCAPE SPECIFICATIONS PRIOR TO SOD INSTALLATION. THE NEW SOD SURFACE SHALL BE FLUSH TO THE ADJACENT TURFGRASS WITHOUT HUMPS OR DEPRESSIONS.
- INSTALL SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS. SLEEVES SHALL BE PVC SCH. 40 PVC OR SDR 35 AND TWICE THE DIAMETER OF THE PIPE UNLESS OTHERWISE NOTED. CONTROL WIRING SHALL BE SLEEVED IN 2" SCH 40 PVC UNLESS OTHERWISE NOTED. MINIMUM DEPTH OF SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS IS 18" BELOW SUBGRADE OR 24" BELOW FINISHED GRADE, WHICHEVER IS GREATER.
- CONTRACTOR SHALL SAWCUT TO EXISTING JOINTS, REMOVE AND REPLACE SURFACING (CONCRETE, ASPHALT) AS NECESSARY TO INSTALL THE IRRIGATION SYSTEM.
- THE CONTRACTOR SHALL PROVIDE AND KEEP AN UP-TO-DATE 'RECORD DRAWINGS' SHOWING ALL CHANGES TO THE ORIGINAL DRAWINGS AND EXACT LOCATIONS OF THE FACILITIES INSTALLED. BEFORE FINAL INSPECTION, THE CONTRACTOR SHALL FURNISH MARKED 'RECORD DRAWINGS' TO THE INSPECTOR.
- THE CONTRACTOR SHALL PROVIDE ADJUSTMENT OF NOZZLE ARC AND RADIUS, INCLUDING ANY ALTERNATE NOZZLE TYPES, NECESSARY TO PROVIDE COMPLETE COVERAGE, TO SUIT ACTUAL SITE CONDITIONS, AND TO MINIMIZE OVERSPRAY ONTO HARDSCAPE, PAVEMENT AND/OR STRUCTURES.
- CONCRETE ANCHORS OR THRUST BLOCKS SHALL BE PROVIDED ON ALL MAIN LINE PIPING. THEY ARE TO BE LOCATED AT ALL ABRUPT CHANGES IN PIPELINE GRADE, CHANGES IN HORIZONTAL ALIGNMENT, REDUCTION IN PIPE SIZES, END OF LINE AND IN-LINE VALVES TO ABSORB ANY AXIAL THRUST OF THE PIPE. THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR THRUST CONTROL SHALL BE FOLLOWED. THRUST BLOCKS MUST BE FORMED AGAINST UNDISTURBED EARTH.
- ALL MAIN LINE AND LATERAL LINE PIPES UNDER PAVEMENT SHALL BE PRESSURE TESTED WITH THE VALVES INSTALLED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NEEDED. IF ANY LEAKS DEVELOP, THE REPAIRS ARE TO BE MADE AND THE TEST REPEATED UNTIL THE SYSTEM IS PROVEN WATERTIGHT. THE CONTRACTOR IS TO CENTER LOAD THE PIPE AND LEAVE ALL JOINTS EXPOSED FOR INSPECTION. THE PRESSURE TEST SHALL BE OBSERVED AND APPROVED BY THE OWNER'S REPRESENTATIVE. WHEN THE PIPE IS PROVEN WATERTIGHT AND ONLY THEN MAY THE LINE BE BACKFILLED.
- WIRED CONNECTIONS BETWEEN THE CONTROLLER AND REMOTE CONTROL VALVES SHALL BE MADE WITH ONE CONTINUOUS DIRECT BURIAL WIRE RUN. A VALVE BOX MUST BE PROVIDED AT THE CONTRACTOR'S EXPENSE AT ALL UNDERGROUND SPLICES.
- ONLY TEFLON TAPE OR AN APPROVED TEFLON PASTE MAY BE USED AS THE SEALING MATERIAL TO MAKE ALL THREADED CONNECTIONS. A MINIMUM OF TWO (2) WRAPS IN THE DIRECTION OF THE THREADS TO BE USED FOR TAPE. NO OTHER PIPE JOINT MATERIAL WILL BE ALLOWED WITHOUT THE WRITTEN AUTHORIZATION FROM THE DESIGN ENGINEER.
- THE CONTRACTOR SHALL PROVIDE TWO (2) INDIVIDUALLY BOUND SETS OF OPERATION AND MAINTENANCE MANUALS. THE MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION:  
A. CONTRACTOR'S ADDRESS AND PHONE NUMBER.  
B. DURATION OF GUARANTEE PERIOD (ONE YEAR AFTER FINAL ACCEPTANCE).  
C. NAMES, ADDRESSES AND PHONE NUMBERS OF LOCAL MANUFACTURER REPRESENTATIVES.  
D. COMPLETE SET OF MANUFACTURER'S LITERATURE AND SPECIFICATIONS.  
E. COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT.  
F. ISSUE A 'CERTIFICATE OF CONSTRUCTION COMPLIANCE' WHICH STATES THAT ALL WORK DONE AND MATERIALS AND EQUIPMENT USED ARE IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND ALL AUTHORIZED REVISIONS.  
G. INITIAL ELECTRICAL DATA ON EACH VALVE.  
(1) OHMS READING FOR EACH VALVE TAKEN AT THE CONTROLLER.  
(2) VOLTAGE READING FOR EACH VALVE TAKEN BOTH AT THE CONTROLLER AND AT THE VALVE.
- THE CONTRACTOR SHALL PROVIDE TWO SETS OF CONTROLLER CHARTS. THE CHARTS TO BE A REDUCED DRAWING OF THE ACTUAL PLANS. THE CHARTS SHALL BE COLORED WITH A DIFFERENT COLOR FOR EACH IRRIGATION CIRCUIT. THE CHARTS SHALL BE COVERED IN A WATERTIGHT ENVELOPE.
- IRRIGATION LINE TRENCHING AND PIPE INSTALLATION LOCATED WITHIN THE CANOPY DRIP LINE OF EXISTING TREES SHALL BE PERFORMED BY HAND OR BY AIR SPADE WITHOUT CUTTING OR DAMAGING EXISTING ROOTS GREATER THAN ONE INCH IN DIAMETER. SEE EXISTING LANDSCAPE PROTECTION SECTION FOR ADDITIONAL REQUIREMENTS.
- REPLACE ALL DAMAGED EXISTING VALVE BOXES AND/OR LIDS WITHIN THE AREA OF WORK. ADJUST THE ELEVATION OF ALL EXISTING VALVE BOXES WITHIN THE AREA OF WORK TO FINISH GRADE AS NECESSARY TO COMPLY WITH THE VALVE BOX DETAIL.

DRIP SYSTEM IRRIGATION NOTES:

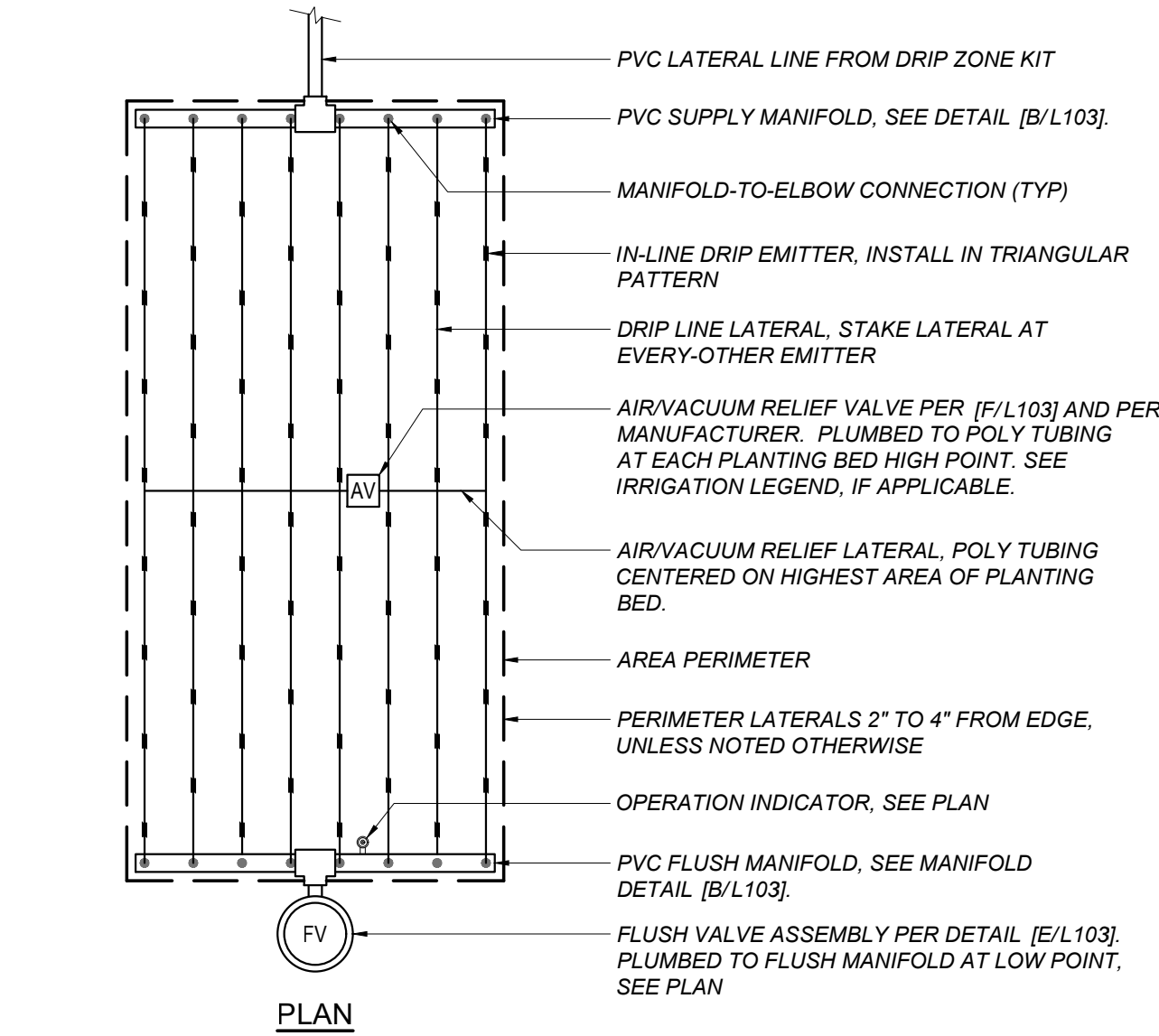
- ALL ITEMS, ACCESSORIES, FITTINGS, ETC., NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING SUB-SURFACE DRIP SYSTEM ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- THE EQUIPMENT AND COMPONENTS CALLED OUT ON THE DRAWING LEGEND ARE THE PREFERENCE OF THE OWNER AND ARE SELECTED TO MATCH EQUIPMENT AND COMPONENTS IN USE IN OTHER SIMILAR IRRIGATION SYSTEMS OF THE OWNER.
- PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY ANY EXISTING SYSTEM COMPONENTS' LOCATION, SIZES AND ROUTING FOR BACKFLOW PREVENTERS, CONTROLLERS, MAIN AND LATERAL PIPING, VALVES, SPRINKLER HEADS AND CONTROL WIRE, AND SHALL CONFIRM THEIR OPERATIONAL STATUS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AND AVAILABLE SAFE FLOW AT THE POINT-OF-CONNECTION. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE ENGINEER BEFORE STARTING WORK OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS, OR NECESSARY REPAIRS TO THE EXISTING SYSTEM, SHALL MAKE THE CONTRACTOR RESPONSIBLE TO PROVIDE, AT HIS OWN EXPENSE, ANY CORRECTIVE WORK OR COMPONENTS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM WITH FULL COVERAGE.
- THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND COMPONENTS SHALL BE LOCATED IN PLANTING AREAS, UNLESS NOTED OTHERWISE. VALVES SHALL BE LOCATED IN SHRUB/GROUND COVER AREAS INSTEAD OF IN TURFGRASS AREAS WHENEVER POSSIBLE.
- INSTALL DRIP EMITTERS IN A TRIANGULAR OR STAGGERED PATTERN AND AT A CONSISTENT DEPTH BELOW GRADE AS SHOWN OR INDICATED IN THE DRAWINGS.
- STAKE THE EMITTER TUBING USING THE MANUFACTURER'S RECOMMENDED STAKES DIRECTLY OVER EVERY OTHER EMITTER. FOR EXAMPLE, IF THE EMITTERS ARE SPACED AT 18 INCHES O.C., THEN STAKE AT 36 INCHES O.C.
- PRIOR TO BACKFILLING THE DRIP TUBING AND THE START OF PLANTING OPERATIONS, THE SYSTEM SHALL BE REVIEWED FOR PROPER OPERATION BY THE OWNER'S REPRESENTATIVE.
- PROGRAM THE CONTROLLER TO OPERATE THE CONTROL VALVE(S) FOR THE DRIP SYSTEM USING THE CONTROLLER'S 'CYCLE AND SOAK' FEATURE IN ORDER TO APPLY THE REQUIRED WATER AMOUNT IN THREE EQUAL CYCLES.
- PRIOR TO THE START OF PLANTING OPERATIONS, THE DRIP SYSTEM SHALL BE OPERATED FOR A FREQUENCY AND DURATION TO ADEQUATELY MOISTEN THE TOPSOIL TO A MINIMUM DEPTH OF 12 INCHES AT ANY LOCATION WITHIN THE PLANTING AREA.
- THE CONTRACTOR SHALL PROVIDE ONE HUNDRED (100) FEET OF IN-LINE EMITTER TUBING OF THE SAME MODEL AS SPECIFIED, ENOUGH STAKES FOR THE 100 FEET, AND TEN (10) OF EACH TYPE OF FITTINGS USED ON THE PROJECT FOR THE OWNER'S USE AS SPARE PARTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP ANY EXISTING IRRIGATION SYSTEM SCHEDULED TO REMAIN OPERATIONAL AT ALL TIMES DURING THE COURSE OF THIS WORK. THE CONTRACTOR SHALL REPLACE ANY PLANTS DEAD OR DISTRESSED DUE TO THE INTERRUPTION OF EXISTING IRRIGATION SCHEDULES, AND SHALL PERFORM ALL WORK NECESSARY TO MAINTAIN THE EXISTING SYSTEM'S OPERATION.
- THE CONTRACTOR SHALL REPLACE ANY EXISTING PLANTS SCHEDULED TO REMAIN THAT ARE DAMAGED BY THIS WORK WITH NEW PLANTS OF THE SAME SPECIES/VARIETY AND SIZE AS THE ORIGINAL PRIOR TO THE START OF WORK. ANY EXISTING TURFGRASS REMOVED FOR THIS WORK SHALL BE REPLANTED IF VIABLE, OR NEW SOD OF THE SAME SPECIES/VARIETY INSTALLED. THE UPPER 6 INCHES OF THE COMPACTED TRENCH BACKFILL SHALL BE CONDITIONED PER THE PLANTING SPECIFICATIONS PRIOR TO SOD INSTALLATION. THE NEW SOD SURFACE SHALL BE FLUSH TO THE ADJACENT TURFGRASS WITHOUT HUMPS OR DEPRESSIONS.

SOLANO COMMUNITY COLLEGE DISTRICT STANDARD

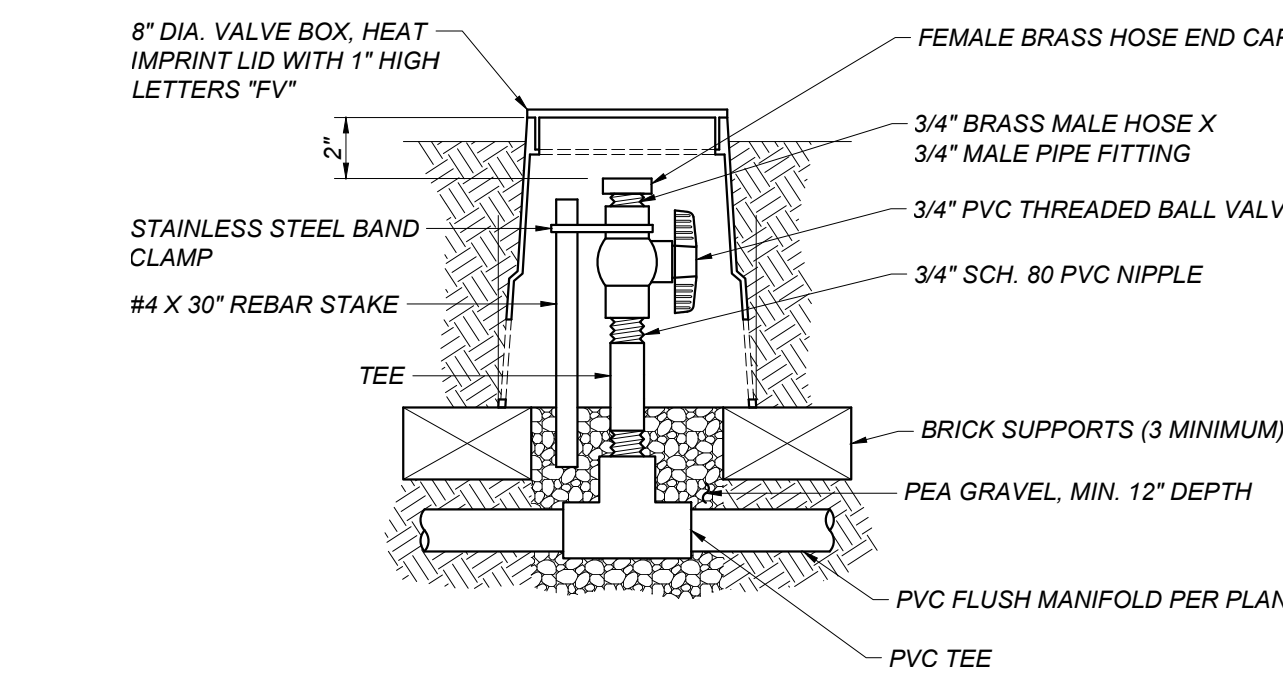
IRRIGATION NOTES

- THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES.
- DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC.
- DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK, AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THEN WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- ELECTRICAL CONTRACTOR TO SUPPLY 120 VOLT A.C. (2.5 AMP) SERVICE TO CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL SUB-OUT TO CONTROLLER.
- EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
- SPLICING OF 24 VOLT CABLE WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN.
- 2-WIRE CABLE SHALL BETWEEN CONTROLLER AND DECODERS SHALL BE PAIGE P73500 14 AWG SOLID COPPER JACKETED 2-CONDUCTOR DIRECT BURIAL CABLE. 2-WIRE CABLE BETWEEN DECODERS AND SOLENOIDS SHALL BE PAIGE P73510 DTS 14 AWG SOLID COPPER JACKETED 2-CONDUCTOR DIRECT BURIAL CABLE.
- THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
- NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT WHICH WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL, AND DO NOT PROCEED UNTIL HIS INSTRUCTIONS ARE OBTAINED.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.
- SPRINKLERS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND EXCESS WATER USE A TORO POP-UP BODY WITH INTEGRAL CHECK VALVE OR A KING BROS. CV SERIES CHECK VALVE ON SHRUB RISERS IN LIEU OF SCHEDULE 80 COUPLING.
- THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- OPERATE IRRIGATION CONTROLLER(S) BETWEEN THE HOURS OF 8:00 PM AND 7:00 AM.
- IRRIGATION CONTRACTOR TO NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- PRIOR TO TRENCHING, CALL UNDERGROUND SERVICE ALERT, (1-800) 642-2444 FOR NORTHERN CALIFORNIA.
- WHEN VERTICAL OBSTRUCTIONS (STREET LIGHTS, TREES, FIRE HYDRANTS, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE HEADS SO AS TO PREVENT PROPER COVERAGE, THE IRRIGATION CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER, THIRD OR HALF CIRCLE HEAD AT THE SIDES OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST.
- WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES, AND TREE ROOTS. EXCAVATION IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. ROOTS TWO (2) INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN A PLASTIC BAG AND SECURED WITH A RUBBER BAND. TRENCHES ADJACENT TO TREE SHOULD BE CLOSED WITHIN TWENTY-FOUR (24) HOURS, WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHADED WITH BURLAP OR CANVAS.
- STATIC PRESSURE AT POINT OF CONNECTION IS APPROXIMATELY XX PSI.
- INSTALL ALL IRRIGATION VALVE BOXES SHALL BE PURPLE FOR USE WITH RECYCLED WATER AND LOCATED WITHIN GROUNDCOVER AREAS ONLY. DO NOT INSTALL WITHIN TURF AREAS. DO NOT LOCATE VALVES AT PEDESTRIAN ENTRY POINTS OR AT PEDESTRIAN CHANGE OF DIRECTION.

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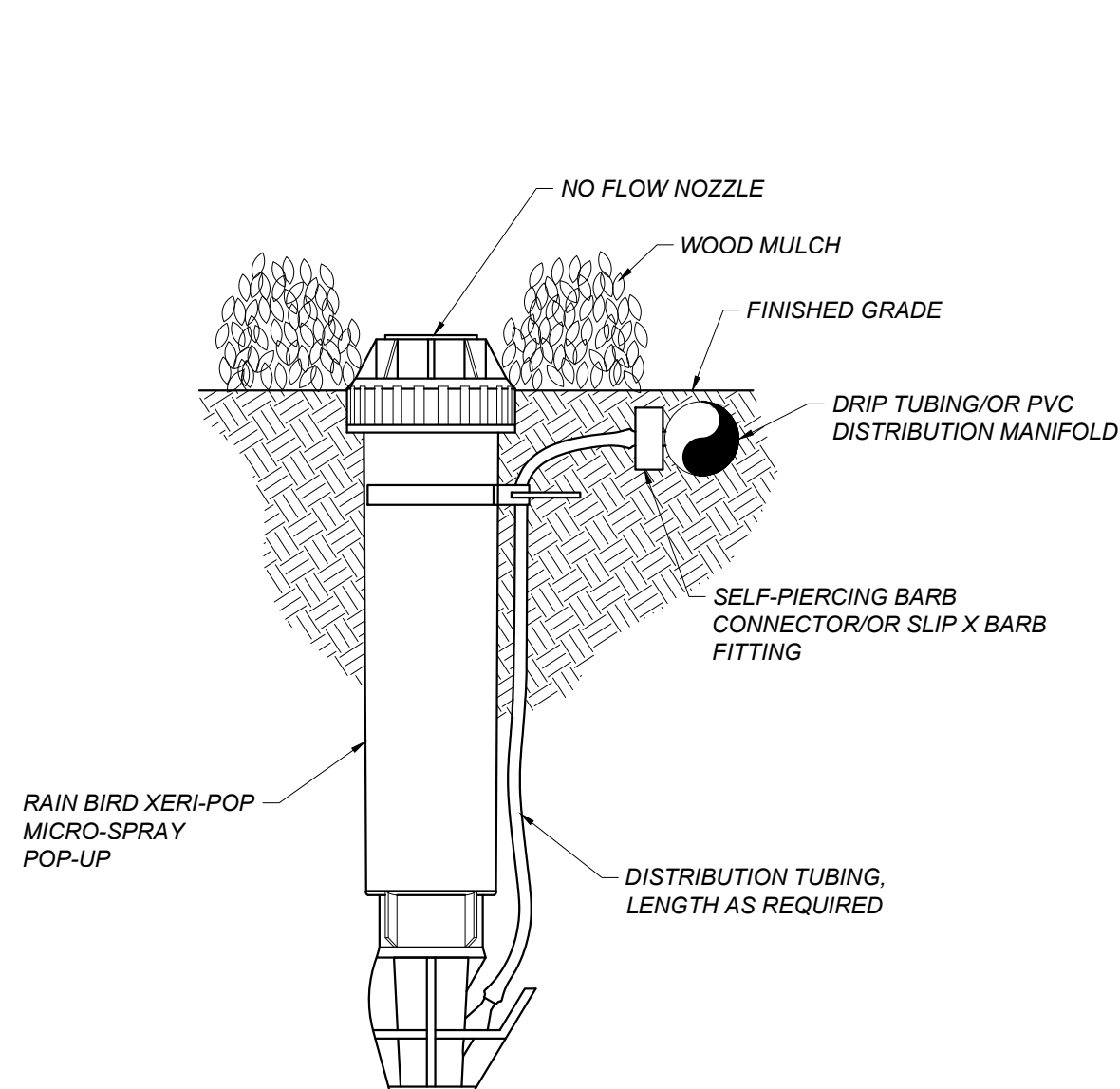
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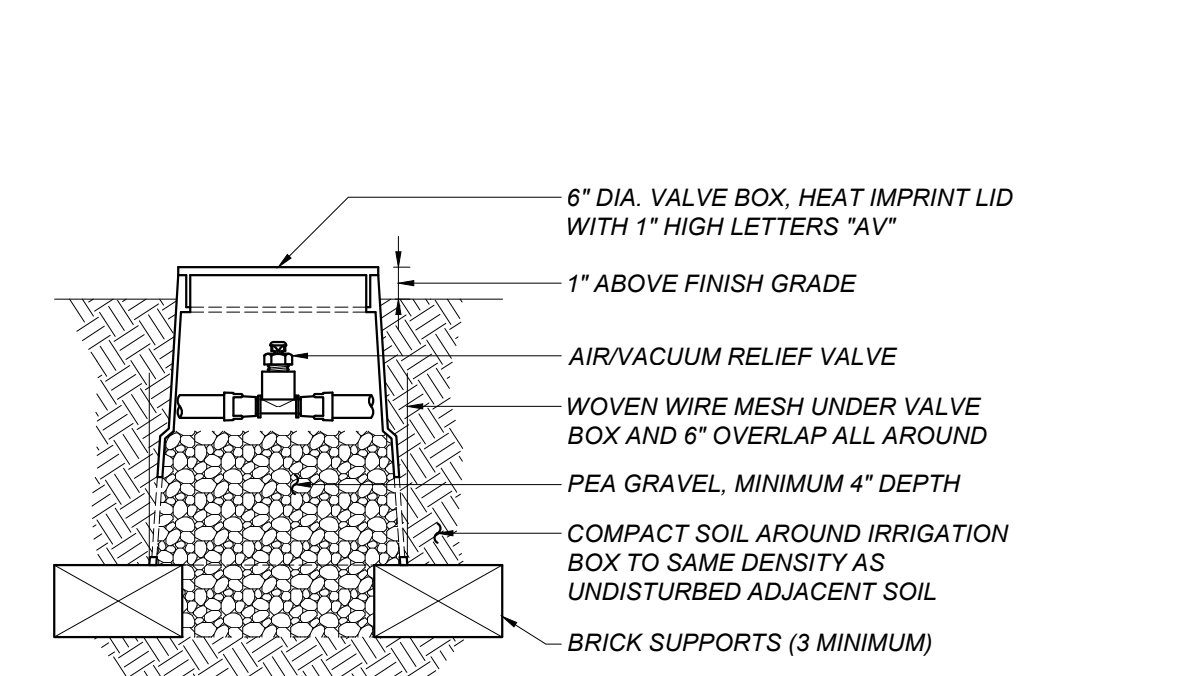
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NOT TO SCALE



SEE SHEET L101 FOR  
IRRIGATION PLAN

AGENCY APPROVAL DSA#

196

185 CLARA STREET, SUITE 101A  
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CONSULTANTS

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BLAIR, CHURCH & FLYNN  
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ELECTRICAL ENGINEER

ATLUM ENGINEERING  
3533 YORK LANE  
SAN RAMON, CA 94582  
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CONSULTANT STAMP



REVISIONS

| NO. | DATE     | DESCRIPTION   |
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THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

SOLANO COMMUNITY  
COLLEGE  
4000 Suisun Valley Rd, Fairfield  
Fairfield, CA 94534

SAND VOLLEYBALL  
COMPLEX

4000 Suisun Valley Rd, Fairfield,  
CA 94534

SHEET TITLE

IRRIGATION  
DETAILS

DRAWN BY:

CMH

JOB NUMBER:

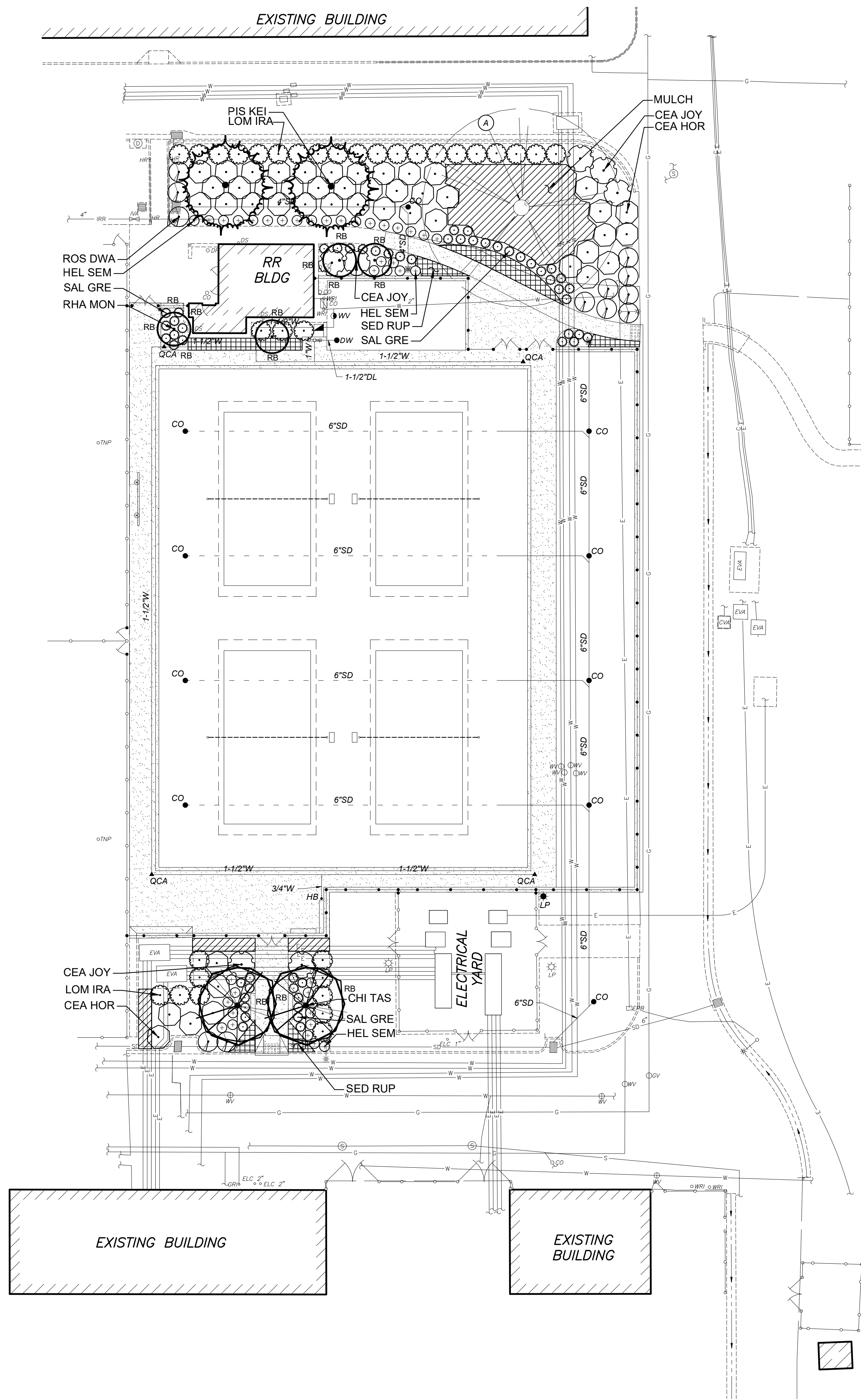
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SHEET NO.

L103

DATE: FEBRUARY 10, 2025





| LANDSCAPE PLANTING OBSERVATION LOG:   |  |   |           |      |
|---|--|---|-----------|------|
| ITEM NO.  | WORK ITEM DESCRIPTION                            | REVIEWED & ACCEPTED BY OWNER'S REPRESENTATIVE |           |      |
|   |  | PRINT NAME                                    | SIGNATURE | DATE |
| PL-1  | REPORT & PROTECTION OF EXISTING TREES            |   |           |      |
| PL-2  | RIPPING OF PLANTING AREAS                        |   |           |      |
| PL-3  | SOIL CONDITIONING & TILLAGE DEPTH                |   |           |      |
| PL-4  | IRRIGATION COVERAGE PRIOR TO PLANTING            |   |           |      |
| PL-5  | FINISH GRADING PRIOR TO PLANTING                 |   |           |      |
| PL-6  | TREES - INITIAL QUALITY & LAYOUT                 |   |           |      |
| PL-7  | PLANTS - INITIAL QUALITY & LAYOUT                |   |           |      |
| PL-8  | GRANULAR PRE-EMERGENT HERBICIDE IN MULCHED AREAS |   |           |      |
| PL-9  | WOOD MULCH DEPTH                                 |   |           |      |
| NOTES: THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET. WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE OWNER'S REPRESENTATIVE IS NOTIFIED OF THESE MILESTONE WITNESS POINTS. |  |   |           |      |

## PLANT LEGEND:

TOTAL AREA OF MIXED PLANTING: 6,761 SQ FT

SUNSET ZONE: 15

| SYMBOL        | CODE    | BOTANICAL / COMMON NAME   | CONT   | WATER USE | QTY      | DETAIL | REMARKS  |
|---------------|---------|---|--------|-----------|----------|--------|--|
| TREES         |         |   |        |           |          |        |  |
|               | PIS KEI | PISTACIA CHINENSIS 'KEITH DAVEY'<br>KEITH DAVEY CHINESE PISTACHE                                    | 24"BOX | L         | 2        | A/L202 | DECIDUOUS<br>STANDARD FORM<br>FULL SUN<br>MS: 30' H X 30' W                                    |
|               | RHA MON | RHAPHIOLEPIS X 'MONTIC'<br>MAJESTIC BEAUTY'S INDIAN HAWTHORN  | 24"BOX | L         | 4        | A/L202 | EVERGREEN<br>MULTI-TRUNK FORM<br>FULL SUN<br>MS: 20' H X 10' W                                 |
|               | CHI TAS | X CHITALPA TASHKENTENSIS<br>CHITALPA  | 24"BOX | L         | 2        | A/L202 | DECIDUOUS<br>STANDARD FORM<br>FULL SUN<br>MS: 20-30' H X 20-30' W                              |
| SHRUBS        |         |   |        |           |          |        |  |
|               | CEA HOR | CEANOTHUS GRISEUS HORIZONTALIS<br>CARMEL CREEPER  | 5 GAL  | L         | 45       | B/L202 | EVERGREEN<br>FULL SUN TO PART SHADE<br>CA NATIVE<br>MS: 2-3' H X 8-10' W                       |
|               | CEA JOY | CEANOTHUS X 'JOYCE COULTER'<br>JOYCE COULTER WILD LILAC   | 5 GAL  | L         | 7        | B/L202 | EVERGREEN PERENNIAL<br>FULL SUN<br>CA NATIVE<br>MS: 2' H X 10-12' W                            |
|               | HEL SEM | HELICTOTRICHON SEMPERVIRENS<br>BLUE OAT GRASS   | 5 GAL  | L         | 38       | B/L202 | SEMI-EVERGREEN<br>SUN TO PART SHADE<br>MS: 2' H X 2-3' W                                       |
|               | LOM IRA | LOMANDRA LONGIFOLIA 'BREEZE'<br>BREEZE™ MAT RUSH  | 5 GAL  | L         | 33       | B/L202 | EVERGREEN<br>PARTIAL SUN TO PARTIAL SHADE<br>MS: 4-5' H X 6-7' W                               |
|               | ROS DWA | ROSMARINUS OFFICINALIS<br>PROSTRATUS<br>DWARF ROSEMARY  | 5 GAL  | L         | 12       | B/L202 | EVERGREEN<br>FULL SUN<br>MS: 2' H X 4-8' W   |
|               | SAL GRE | SALVIA GREGGII 'HOT LIPS'<br>AUTUMN SAGE  | 5 GAL  | L         | 53       | B/L202 | EVERGREEN<br>FULL SUN TO PART SHADE<br>CA NATIVE<br>MS: 2-3' H X 3' W                          |
| GROUND COVERS |         |   |        |           |          |        |  |
|               | SED RUP | SEDUM RUPESTRE<br>REFLEXED STONECROP  | 5 GAL  | L         | 466      | C/L202 | EVERGREEN<br>FULL SUN TO FULL SHADE<br>MS: 0.5-1' H X 1-1.5' W<br>TRIANGULAR SPACING @ 1' O.C. |
|               | MULCH   | WOOD MULCH<br>WALK-ON BARK TYPE   | N/A    | N/A       | 1,172 SF | E/L202 | MIN. 3" DEPTH IN ADDITION TO TOTAL<br>PLANTING AREA.   |
|               | RB      | ROOT BARRIER  |        |           |          | D/L202 | 24 INCH DEEP ROOT BARRIER PANELS.<br>INSTALL PER MANUFACTURER'S<br>SPECIFICATIONS              |
|               | A       | PROTECT EXISTING STONE PINE TREE IN PLACE. TPZ 1 (TREE<br>PROTECTION ZONE) PER SPECIFICATION 320190 |        |           |          |        |  |

| LANDSCAPE SHADE CALCULATIONS                                      |  |                        |                  | SHADING PER CALGREEN 5.106.12 |
|---|--|------------------------|------------------|-------------------------------|
| SITE SHADING - LANDSCAPE USE & HARDSCAPE                          |  | QUANTITY PROPOSED (SF) | PERCENT REQUIRED | SHADE AREA REQUIRED (SF)      |
| LANDSCAPED AREA (EXCLUDING SPECIAL USE & PARKING LANDSCAPE AREAS) |  | 6,761                  | 20               | 1,352                         |
| UNCOVERED HARDSCAPE AREA (EXCLUDING PARKING HARDSCAPE AREAS)      |  | 342                    | 20               | 68                            |
| TOTAL SITE SHADE REQUIRED   |  |                        |                  | 1,421                         |
| PROVIDED SHADE TREES  |  | PROVIDED SHADE AREA    | NO. TREES        |                               |
| VERY LARGE (40' dia = 1256 SF)                                    |  | 0                      | 0                |                               |
| LARGE (35' dia = 962 SF)  |  | 0                      | 0                |                               |
| MEDIUM (30' dia = 707 SF)   |  | 1,414                  | 2                |                               |
| SMALL (20' dia = 314 SF)  |  | 628                    | 2                |                               |
| Extra SMALL (10' dia = 79 SF)                                     |  | 1,256                  | 4                |                               |
| TOTALS  |  | 3,298                  | 8                |                               |
| OVER (UNDER) LANDSCAPE & HARDSCAPE SHADE REQUIREMENT              |  |                        |                  | 1,877                         |

| TREE SIZE AND QUALITY STANDARDS  |              |              |                           |                               |              |                  |                                  |              |                  |
|--|--------------|--------------|---------------------------|-------------------------------|--------------|------------------|----------------------------------|--------------|------------------|
| AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1) AND GUIDELINE SPECIFICATIONS FOR NURSERY TREE QUALITY (URBAN TREE FOUNDATION SHALL APPLY)  |              |              |                           |                               |              |                  |                                  |              |                  |
| TYPES 1 & 2 SHADE TREES  |              |              |                           | TYPE 3 SMALL UPRIGHT TREES ** |              |                  | TYPE 4 SMALL SPREADING TREES *** |              |                  |
| CONTAINER SIZE   | MIN. CALIPER | MAX. CALIPER | TYPE 1 MIN./MAX. HEIGHT * | MIN. CALIPER                  | MAX. CALIPER | MIN./MAX. HEIGHT | MIN. CALIPER                     | MAX. CALIPER | MIN./MAX. HEIGHT |
| 15 GALLON  | 0.75         | 2.0          | 7-10 FT                   | 0.75                          | 2.0          | 6-8 FT           | 0.75                             | 2.0          | 4-8 FT           |
| 24" BOX  | 1.25         | 3.0          | 8-12 FT                   | 1.25                          | 3.0          | 8-10 FT          | 1.25                             | 3.0          | 6-10 FT          |
| 36" BOX  | 1.75         | 3.5          | 10-16 FT                  | 1.75                          | 3.5          | 10-14 FT         | 1.75                             | 3.5          | 7-12 FT          |
| 42" BOX  | 2.0          | 4.0          | 12-20 FT                  | 2.0                           | 4.0          | 12-18 FT         | 2.0                              | 4.0          | 8-14 FT          |
| 48" BOX  | 2.5          | 5.0          | 14-26 FT                  | 2.5                           | 5.0          | 14-22 FT         | 2.5                              | 5.0          | 9-16 FT          |
| * TYPE 2 TREE HEIGHTS SHALL NOT BE LESS THAN TWO-THIRDS THE LISTED HEIGHT RANGE.   |              |              |                           |                               |              |                  |                                  |              |                  |
| ** TYPE 3 TREES SHALL HAVE A MINIMUM OF SEVEN BRANCHES.  |              |              |                           |                               |              |                  |                                  |              |                  |
| *** TYPE 4 TREES SHALL HAVE A MINIMUM OF EIGHT BRANCHES.   |              |              |                           |                               |              |                  |                                  |              |                  |
| CALIPER MEASUREMENT FOR CLUMP OR MULTI-STEM TREES IS ONE-HALF THE SUM OF THE THREE LARGEST TRUNK CALIPERS.   |              |              |                           |                               |              |                  |                                  |              |                  |
| CALIPER MEASUREMENT FOR <4" TRUNK IS +6" ABOVE ROOTBALL (NOT INCLUDING ROOTSTOCK). >4" TRUNK IS +12".  |              |              |                           |                               |              |                  |                                  |              |                  |
| TREES SHALL HAVE A CENTRAL LEADER. NEW LEADERS LESS THAN HALF THE DIAMETER OF A HEADED LEADER, BROKEN OR CO-DOMINATE LEADERS ARE NOT ACCEPTABLE.   |              |              |                           |                               |              |                  |                                  |              |                  |
| SCAFFOLD BRANCHES SHALL BE LESS THAN 2/3 THE DIAMETER OF THE TRUNK, WITHOUT INCLUDED BARK AT ATTACHMENT. SCAFFOLD BRANCHES SHALL BE BALANCED, WELL SPACED VERTICALLY, AND WITH A RADIIALLY BLANK SECTOR NO GREATER THAN 1/3 OF THE CANOPY CIRCUMFERENCE. |              |              |                           |                               |              |                  |                                  |              |                  |
| TEMPORARY BRANCHES ON THE LOWER TRUNK SHALL BE LESS THAN 3/8 INCH DIAMETER, AND THE CLEAR TRUNK HEIGHT SHALL BE NO MORE THAN 40% OF THE TOTAL TREE HEIGHT.   |              |              |                           |                               |              |                  |                                  |              |                  |
| THE ROOT COLLAR AND ROOTBALL SHALL BE FREE OF DEFECTS INCLUDING GIRDLING, KINKED AND GIRDLING ROOTS. ROOTS THE EDGE AND BOTTOM OF THE CONTAINER SHALL BE LESS THAN 1/4 INCH DIAMETER, AND UNIFORM THROUGHOUT THE CONTAINER.                              |              |              |                           |                               |              |                  |                                  |              |                  |
| TREE CANOPY WIDTH SHALL BE A MINIMUM OF 25% OF THE STANDARD FORM TREE HEIGHT.  |              |              |                           |                               |              |                  |                                  |              |                  |
| DO NOT HEAD BACK OR PRUNE TREES UNLESS APPROVED AND/OR DIRECTED TO BY THE LANDSCAPE ARCHITECT.   |              |              |                           |                               |              |                  |                                  |              |                  |

## WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE PLANTING DESIGN PLAN.

CATO M. HESKETT, RLA 6932

## CONTRACTOR SPECIAL PLANTING NOTES:

- AN ASSESSMENT AND VALUATION OF ONSITE EXISTING TREES SCHEDULED TO REMAIN IN THE AREA OF WORK SHALL BE PERFORMED BY THE CONTRACTOR'S ARBORIST PRIOR TO THE START OF CONSTRUCTION OPERATIONS PER THE EXISTING LANDSCAPE PROTECTION SPECIFICATION.
- THE CONTRACTOR SHALL RIP, CONDITION AND TILL THE ENTIRE EXTENT OF ALL PLANTING AREAS RECEIVING NEW PLANTS PER THE PLANTING NOTES AND LANDSCAPE PLANTING SPECIFICATIONS.
- ALL EXISTING MIXED PLANTING AREAS RECEIVING NEW WOOD MULCH SHALL BE MANUALLY TILLED TO A MINIMUM DEPTH OF 4 INCHES. CLOUDS BROKEN UP TO A MAXIMUM 1 INCH DIAMETER. FINISH GRADED TO 2 INCHES BELOW ADJACENT SURFACES AND UTILITY/IRRIGATION BOXES WITHIN 12 INCHES OF THE HARDSCAPE EDGE, AND A PRE-EMERGENT HERBICIDE APPLIED PRIOR TO WOOD MULCH INSTALLATION. PROTECT EXISTING PLANTING DURING WOOD MULCH PREPARATION AND INSTALLATION.
- THE ORIGINAL PLANTING OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
- THE AS-BUILT RECORD DRAWING SET AND MAINTENANCE MANUAL SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.

AGENCY APPROVAL DSAP

# 196

185 CLARA STREET, SUITE 101A  
SAN FRANCISCO, CA 94107  
TEL 628.212.9200

## CONSULTANTS

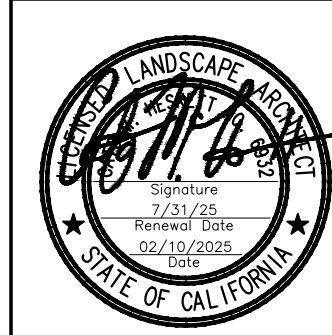
CIVIL ENGINEER  
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## CONSULTANT STAMP



## REVISIONS

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## PROJECT OWNER &amp; TITLE

**SOLANO COMMUNITY COLLEGE**  
4000 Suisun Valley Rd, Fairfield  
Fairfield, CA 94534

**SAND VOLLEYBALL COMPLEX**

4000 Suisun Valley Rd, Fairfield,  
CA 94534

## SHEET TITLE

**PLANTING PLAN**

## DRAWN BY:

CMH

## JOB NUMBER:

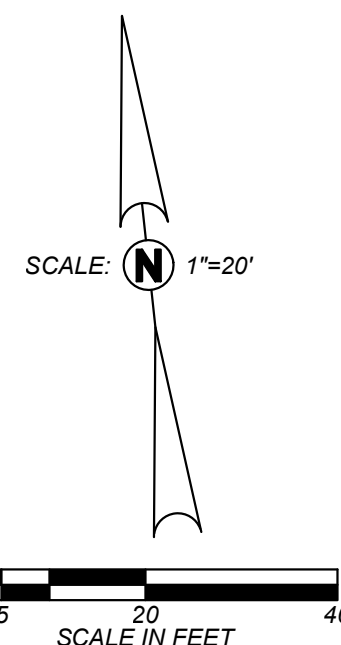
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## SHEET NO.

**L201**

DATE: FEBRUARY 10, 2025

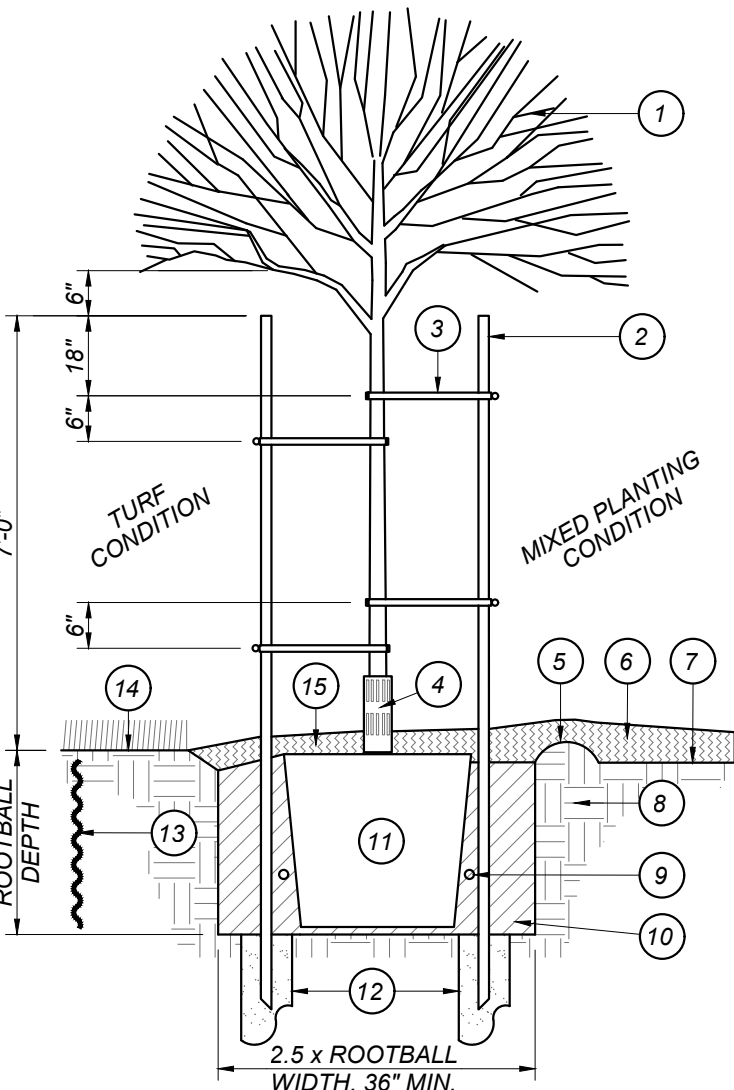
SEE SHEET L202 FOR  
PLANTING NOTES AND  
DETAILS





PLANTING NOTES:

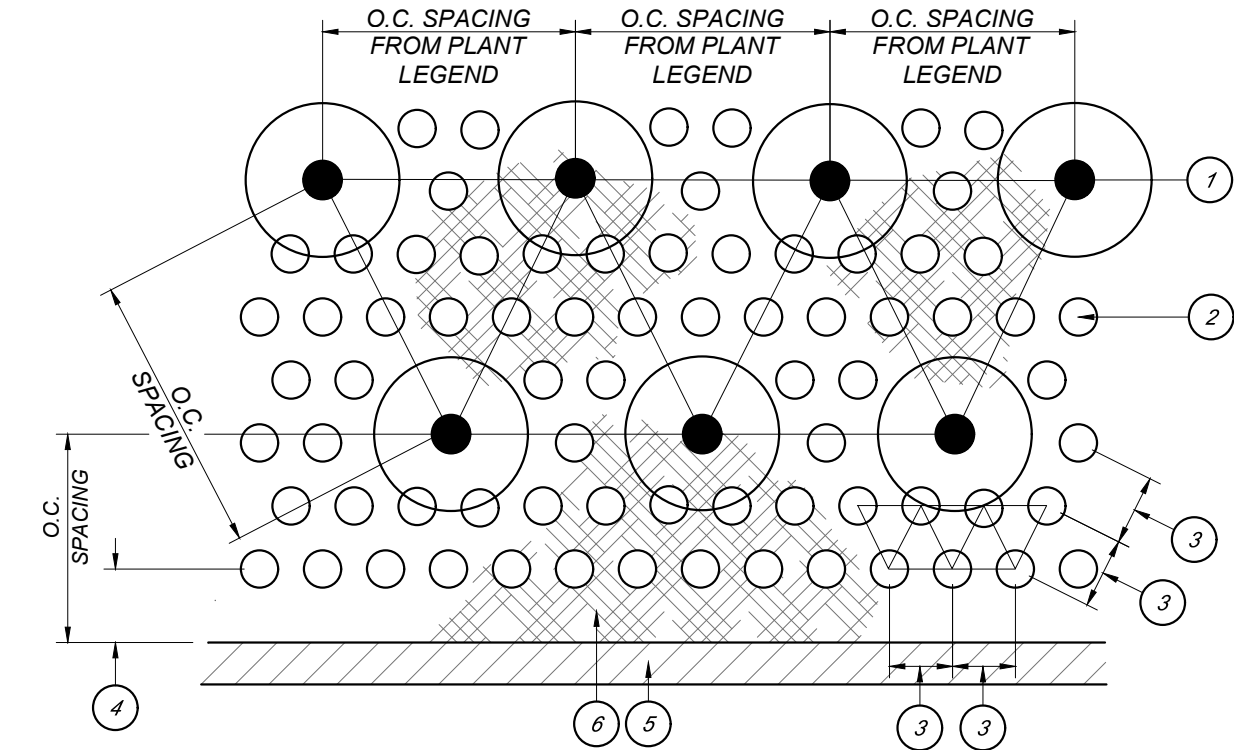
1. IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF IT IS OBVIOUS THAT OBSTRUCTIONS OR STRUCTURES, IRRIGATION SYSTEM MALFUNCTION, EXISTING TREES OR PLANTS, GRADE DIFFERENCES OR CHANGES IN THE SITE PLAN ARE PRESENT THAT WILL IMPACT THE PLANTING DESIGN. FAILURE TO GIVE SUCH NOTIFICATION SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY REVISIONS OR REPLACEMENTS NECESSARY FOR CORRECTION.
2. ANY EXISTING PLANTING SHOWN ON THE PLAN IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY THE EXISTING PLANTING AT THE SITE PRIOR TO STARTING WORK. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL PROTECT THE EXISTING PLANTING ADJACENT TO THE WORK FROM DAMAGE OR DISTRESS.
3. ALL TREES AND SHRUBS SHALL BE OF CLASS A QUALITY WITHOUT PESTS, DISEASE OR DAMAGE. SHALL BE WELL ESTABLISHED IN THEIR CONTAINERS WITHOUT GIRDLING ROOTS OR EXCESSIVE TOP GROWTH, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1).
4. NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF IRRIGATION COMPONENTS AND TREE AND/OR SHRUB PLANTING FOR APPROVAL OF THE PLANT LAYOUT AND PLANT QUALITY. PLANT LOCATIONS SHALL AVOID CONFLICTS WITH EXISTING IMPROVEMENTS, PLANTINGS OR UTILITIES, LIGHT POLES WHILE MEETING THE DESIGN INTENT. DO NOT PLANT TREES WITHIN 15 FEET OF LIGHT POLES UNLESS SPECIFICALLY AUTHORIZED. FAILURE TO OBTAIN SUCH APPROVAL SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY RELOCATION OR REPLACEMENT OF IRRIGATION COMPONENTS, PLANTED TREES AND/OR SHRUBS.
5. PLANT QUANTITIES ARE PROVIDED FOR BIDDING CONVENIENCE ONLY. THE CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES OF PLANTS EQUAL TO THE SYMBOL COUNT OR TO FILL THE AREA SHOWN ON THE PLAN AT THE SPECIFIED TRIANGULAR SPACING.
6. WHERE GROUND COVER PLANTS ARE SHOWN AT A SPECIFIED SPACING, THE GROUND COVER PLANTING CONTINUES UNDERNEATH THE TALLER SHRUBS AND TREES AS SHOWN IN THE PLANTING DETAILS. DO NOT PLANT GROUND COVER IN SHRUB OR TREE WATERING BASINS.
7. ALL NEW TREES LOCATED WITHIN 8 FEET OF PAVEMENT OR STRUCTURES SHALL HAVE A ROOT CONTROL BARRIER INSTALLED WHEN PLANTED. UNLESS OTHERWISE SPECIFIED, INSTALL A 12 FOOT LONG X 24 INCH DEEP LINEAR POLYETHYLENE BARRIER VESPRO OR EQUAL AT THE EDGE OF PAVEMENT/STRUCTURE, CENTERED ON THE TREE TRUNK AS SHOWN IN THE PLANTING DETAILS.
8. REMOVE NURSERY STAKES FROM TREES AFTER TREE STAKING OR GUYING AS SHOWN IN THE DETAILS.
9. INSTALL PERFORATED POLYETHYLENE TREE TRUNK PROTECTORS FOR ALL NEW TREES PLANTED IN TURF. UNLESS NOTED OTHERWISE, MAINTAIN A MINIMUM 6 FOOT DIAMETER MULCHED AREA AT THE BASE OF THE TREE INSIDE THE WATERING BASIN.
10. THE CONTRACTOR SHALL PRUNE NEW TREES ONLY WHEN SPECIFICALLY DIRECTED BY THE LANDSCAPE ARCHITECT. TREES HEADED BACK WITHOUT INTACT SCAFFOLDING BRANCH STRUCTURE OR IN ROOT-BOUND CONTAINERS SHALL BE REJECTED.
11. SUBMIT REPRESENTATIVE SOIL SAMPLES OF NATIVE AND PROPOSED IMPORT, IF NEEDED, PLANTING TOPSOIL TO A SOIL LAB FOR HORTICULTURAL ANALYSES AND FERTILITY RECOMMENDATIONS. AMEND SOIL ACCORDING TO THE RECOMMENDATIONS OF THE SOILS REPORT AND LANDSCAPE ARCHITECT'S DIRECTION. SEE THE LANDSCAPE PLANTING SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.
12. PROVIDE SANDY LOAM TOPSOIL PER SPECIFICATION IN ALL RAISED PLANTERS AND WHERE IMPORT TOPSOIL IS REQUIRED. NATIVE SITE SOIL MAY BE USED IN RAISED PLANTERS ONLY WHEN THE NATIVE SITE SOIL MEETS THE CRITERIA FOR SANDY LOAM TOPSOIL AS DETERMINED BY A SOIL ANALYSIS.
13. PRIOR TO SOIL CONDITIONING, RIP IN TWO DIFFERENT DIRECTIONS WITH TINES AT 12 INCH SPACING, ALL TURFGRASS AREAS TO A 12 INCH DEPTH, AND SHRUB/GROUND COVER AREAS TO A 18 INCH DEPTH. ROUGH GRADE AND TILL THE APPROVED SOIL CONDITIONERS AND FERTILIZERS INTO THE TOP SIX (6) INCHES PER THE LANDSCAPE PLANTING SPECIFICATIONS. COMPOST RATE SHALL BE A MINIMUM OF FOUR (4) CUBIC YARDS PER 1,000 SQUARE FEET OR AS MODIFIED BY THE LANDSCAPE ARCHITECT BASED ON THE SOIL FERTILITY ANALYSIS.
14. UPON THE COMPLETION OF THE SOIL CONDITIONING, REMOVE ROCKS AND CLODS 1 INCH DIAMETER AND GREATER FROM THE TOP TWO INCHES OF TOPSOIL, AND ALL DEBRIS. FINISH GRADE THE AREA TO +/- 0.04 FOOT TOLERANCE. FINISH GRADE IN MULCHED AREAS SHALL BE STRAIGHT GRADES WITHOUT HUMPS OR DEPRESSIONS AND SHALL BE 2 INCHES BELOW ADJACENT HARDSCAPE, INLETS OR UTILITY BOX COLLARS. RELATIVE DENSITY OF THE TOPSOIL SHALL NOT EXCEED 85% COMPACTION.
15. OBTAIN THE APPROVAL OF THE OWNER'S REPRESENTATIVE TO BEGIN PLANTING OPERATIONS ONCE THE IRRIGATION SYSTEM IS OPERATIONAL AND THE SOIL CONDITIONING AND FINISH GRADING IS COMPLETED.
16. AFTER PLANTING IS COMPLETED AND JUST PRIOR TO MULCH INSTALLATION, APPLY A BROAD SPECTRUM PRE-EMERGENT HERBICIDE TO ALL NON-TURFGRASS PLANTING AREAS PER THE MANUFACTURER'S SPECIFICATIONS.
17. WHERE MULCH IS TO BE INSTALLED IN AN EXISTING PLANTING AREA, BREAKUP/TILL THE EXISTING SOIL TO A MINIMUM 6 INCH DEPTH PER SPECS. AND ADJUST FINISH GRADE ADJACENT TO HARDSCAPE AND DRAINAGE ELEMENTS TO PROVIDE A 2 INCH DEPTH THAT TRANSITIONS TO THE EXISTING GRADE OVER 1 TO 2 FEET.
18. INSTALL A MINIMUM 3 INCH DEPTH OF CHIPPED WALK-ON WOOD MULCH IN ALL PLANTING AREAS AND TREE WATERING BASINS EXCEPT FOR TURFGRASS AREAS, SLOPES 3H:1V OR GREATER, AREAS TO RECEIVE SEED PLANTING, OR AS NOTED ON THE PLAN. AREAS PLANTED WITH FLATS SHALL HAVE A MINIMUM MULCH DEPTH OF 2 INCHES. INSTALL A MINIMUM 3 FOOT RADIUS OF 3 INCH DEEP WOOD MULCH AT THE BASE OF ALL TREES IN NEW TURFGRASS AREAS.
19. ALL EXISTING PLANTS AND/OR TURFGRASS SHOWN TO REMAIN AND DAMAGED OR REMOVED BY CONSTRUCTION OPERATIONS AND/OR UTILITY/IRRIGATION/DRAINAGE LINES SHALL BE REPLACED WITH PLANTS THAT MATCH AS CLOSELY AS POSSIBLE TO THE EXISTING PLANT SPECIES, VARIETY AND SIZE. THE REPLACEMENT TURFGRASS SOD VARIETY SHALL BE THE SAME AS SHOWN IN THE PLANTING LEGEND AS IF FOR NEW WORK, OR SHALL MATCH THE EXISTING TURFGRASS VARIETY WHERE EXISTING. TILL SOIL CONDITIONING MATERIALS INTO THE TOP 6 INCHES OF THE SOIL OVER THE AREA OF REPAIR/REPLACEMENT AS IF FOR NEW WORK. ADJUST FINISH GRADE SO NEW TURFGRASS SOD ABUTS FLUSH TO EXISTING SOD GRADE. THE REPLACEMENT PLANTS AND/OR TURFGRASS SOD SHALL BE MAINTAINED AS PART OF THE ORIGINAL SCOPE OF WORK. THE REPAIR OR REPLACEMENT WORK SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.
20. CONTRACTOR SHALL MAINTAIN THE NEW PLANTING FOR HEALTHY AND VIGOROUS GROWTH, WHICH INCLUDES BUT IS NOT LIMITED TO WATERING, WEEDING, FERTILIZING, MOWING AND EDGING (AT LEAST ONCE A WEEK), REMOVING TRASH AND DEBRIS, AND OTHER RELATED ACTIVITIES THROUGHOUT THE DURATION OF THE MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE.



DRAINAGE SUMP NOTES:

- A. DRAINAGE SUMPS SHALL PENETRATE THROUGH AND BEYOND ANY UNDERLYING PAVEMENT OR HARDPAN SOIL STRATUM, AND SUCH PAVEMENT OR HARDPAN MATERIAL SHALL BE REMOVED FROM THE SUMP HOLES.
- B. THE SUMP HOLE SHALL BE DRILLED TO MINIMUM DEPTH OF TEN (10) FEET, UNLESS VISUAL EVIDENCE OF A SUBSURFACE SAND AND/OR GRAVEL DRAINAGE STRATUM IS APPARENT AT A LESSER DEPTH. THE SUMP HOLES SHALL EXTEND INTO THE DRAINAGE STRATUM A MINIMUM OF ONE (1) FOOT.

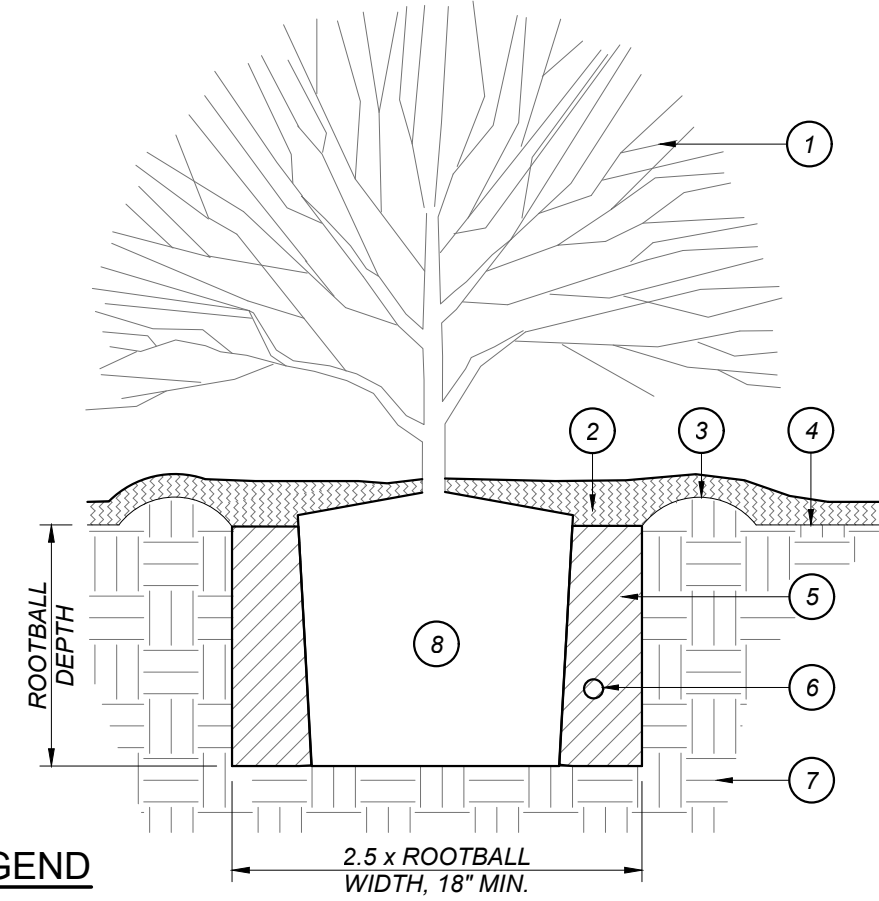
A DOUBLE STAKE TREE PLANTING  
L202 NOT TO SCALE



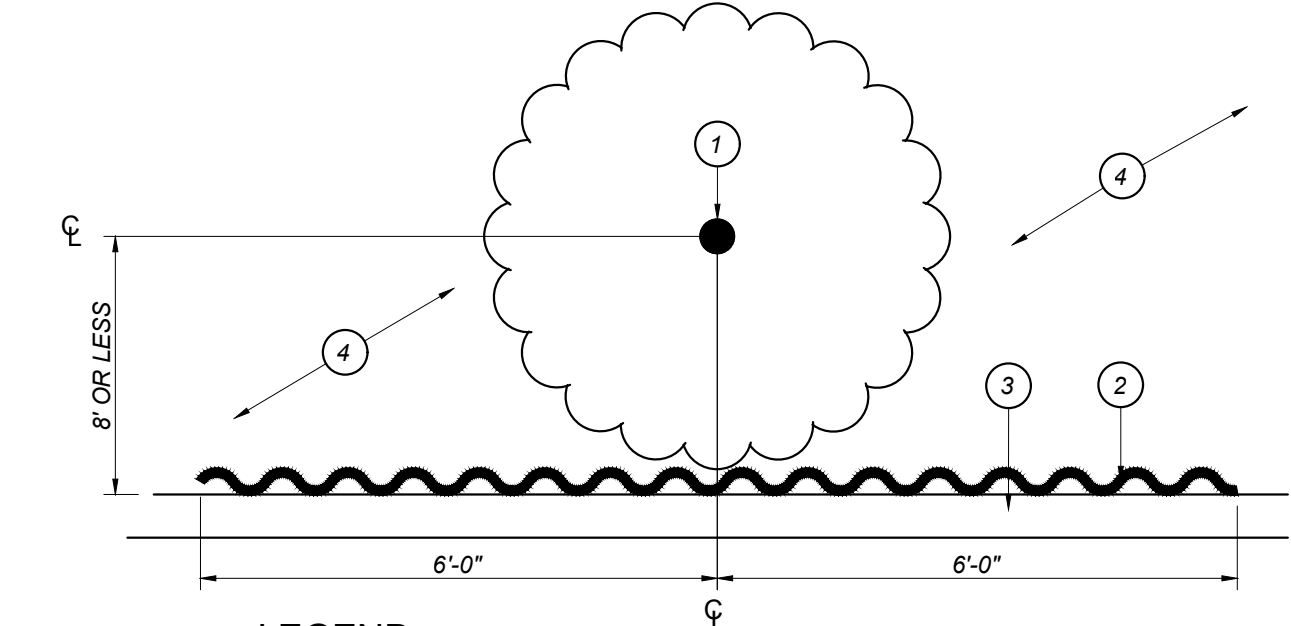
- LEGEND:
1. CONTAINER SHRUB OR GROUND COVER IN TRIANGULATED ROWS. SEE SHRUB PLANTING PER DETAIL [B/L202].
  2. GROUND COVER PLANTS OR LINERS - TRIANGULATED ROWS.
  3. SPACE PER PLANT LEGEND, OMIT PLANTS WHERE IN CONFLICT WITH SHRUBS OR TREE WATERING BASINS.
  4. SPACING DISTANCE FROM PLANT LEGEND.
  5. HARDSCAPE ELEMENT - CURB, WALK, ETC.
  6. MULCH PER SPECIFICATIONS.

C SHRUB AND GROUND COVER SPACING  
L202 NOT TO SCALE

- LEGEND:
1. TREE PER PLANTING PLAN.
  2. 2" X 10' LODGEPOLE PINE STAKE. DO NOT DRIVE STAKE THROUGH ROOTBALL. CUT OFF TOP SECTION DAMAGED BY HAMMERING. TOP OF STAKE IS 6" CLEAR OF LOWEST TREE BRANCHES.
  3. FLEXIBLE VINYL TREE TIE, 4" TREE (V.I.T. OR APPROVED EQUAL.)
  4. TREE TRUNK PROTECTOR (GRAY) WHERE TREE IS IN TURF AREA.
  5. 4" HIGH WATERING BERM.
  6. ADJACENT PLANTING AREA WITH MULCH WHERE OCCURS.
  7. FINISH GRADE.
  8. SITE SOIL.
  9. PLANT FERTILIZER TABLET. SEE SPECIFICATIONS.
  10. AMENDED BACKFILL. SEE SPECIFICATIONS.
  11. ROOTBALL. SET TOP OF ROOTBALL 2" ABOVE FINISH GRADE.
  12. DRAINAGE SUMP. 12" DIA. PER DRAINAGE SUMP NOTES. FILL WITH CONCRETE SAND PER SSPWC 200-1.5.5.
  13. ROOT CONTROL BARRIER WHERE REQUIRED. SEE GENERAL PLANTING NOTES AND DETAIL [D/L202].
  14. ADJACENT TURFGRASS PLANTING WHERE OCCURS.
  15. MULCH, MINIMUM 3" DEPTH. SEE GENERAL PLANTING NOTE 17.

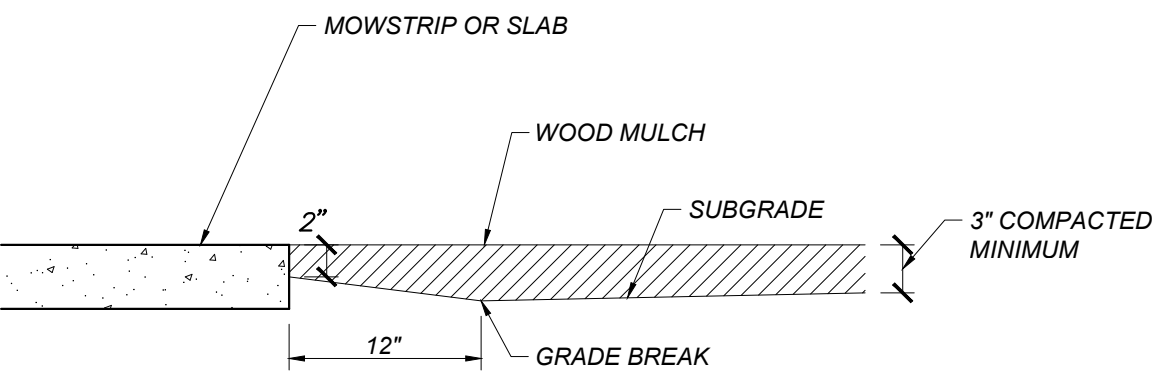


B SHRUB PLANTING  
L202 NOT TO SCALE



- LEGEND:
1. TREE TRUNK.
  2. 12 LF OF 24" DEEP ROOT CONTROL BARRIER. DEEP ROOT UB24-2 OR EQUIVALENT. CENTER BARRIER ON TRUNK OF TREE. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
  3. HARDSCAPE ELEMENT - CURB, SIDEWALK, WALL, ETC.
  4. PLANTING AREA.
  5. INSTALL ROOT CONTROL BARRIER ON ALL SIDES OF THE PLANTING AREA WHEN SURROUNDED BY HARDSCAPE WITHIN 8' OF THE TREE TRUNK.

D ROOT CONTROL BARRIER  
L202 NOT TO SCALE



E MULCH DETAIL  
L202 NOT TO SCALE

SEE SHEET L201 FOR  
PLANTING PLAN

AGENCY APPROVAL DSAP

19.6

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PROJECT OWNER & TITLE

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4000 Suisun Valley Rd, Fairfield  
Fairfield, CA 94534

**SAND VOLLEYBALL COMPLEX**  
4000 Suisun Valley Rd, Fairfield,  
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SHEET TITLE

**PLANTING DETAILS**

DRAWN BY: CMH

JOB NUMBER: 240056

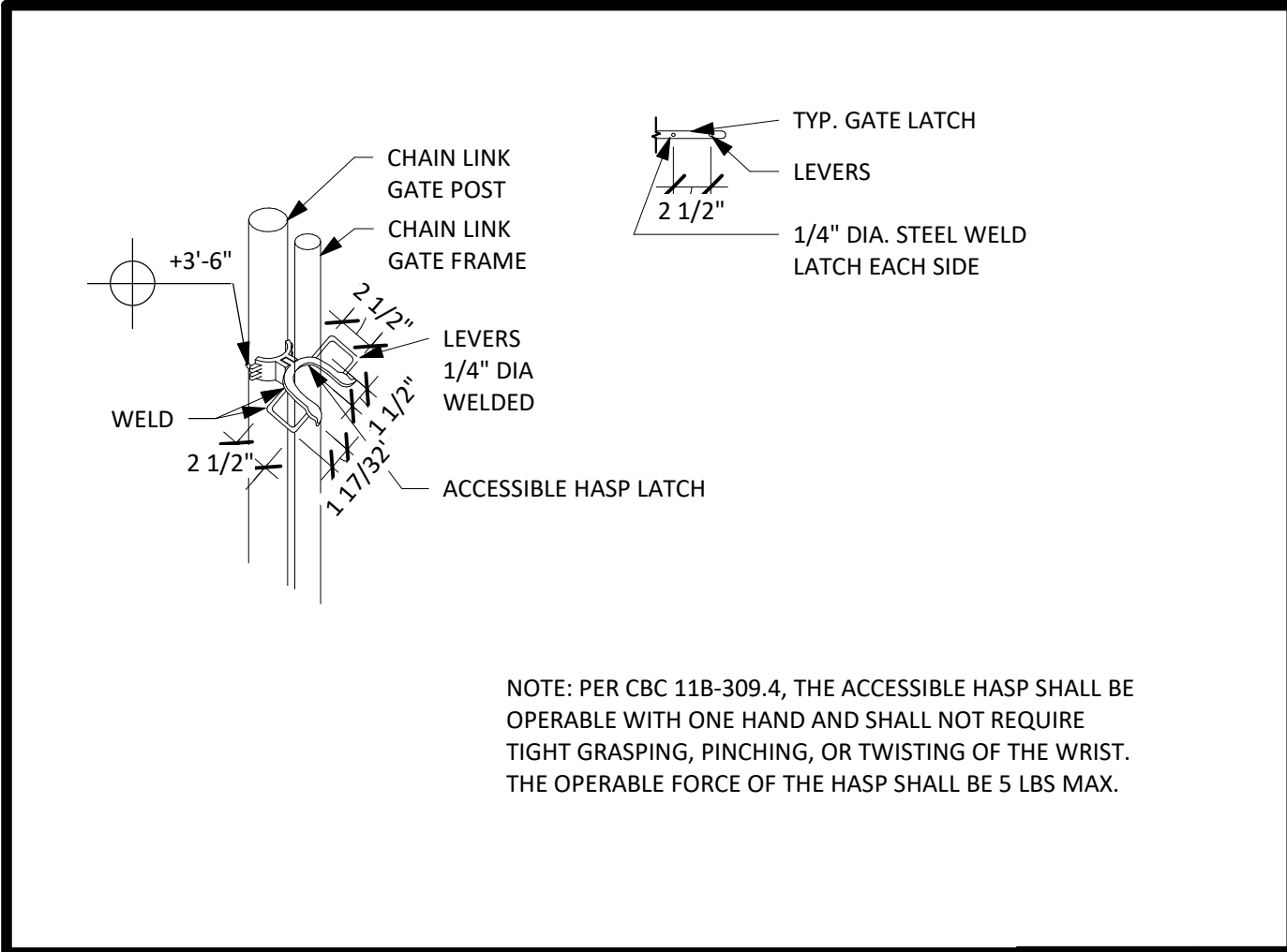
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**L202**

DATE: FEBRUARY 10, 2025



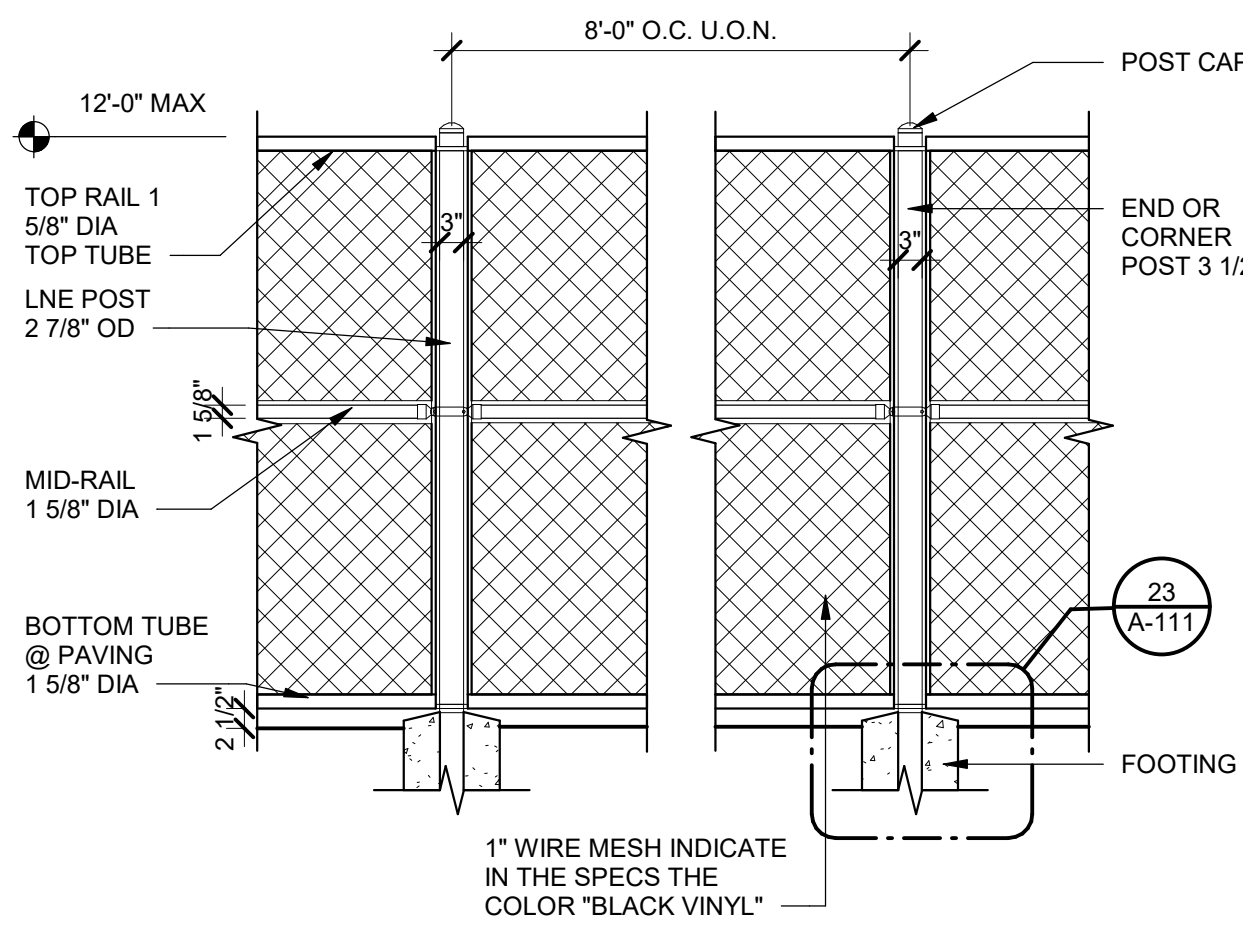
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NOTE: PER CBC 11B-309.4, THE ACCESSIBLE HASP SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE OPERABLE FORCE OF THE HASP SHALL BE 5 LBS MAX.

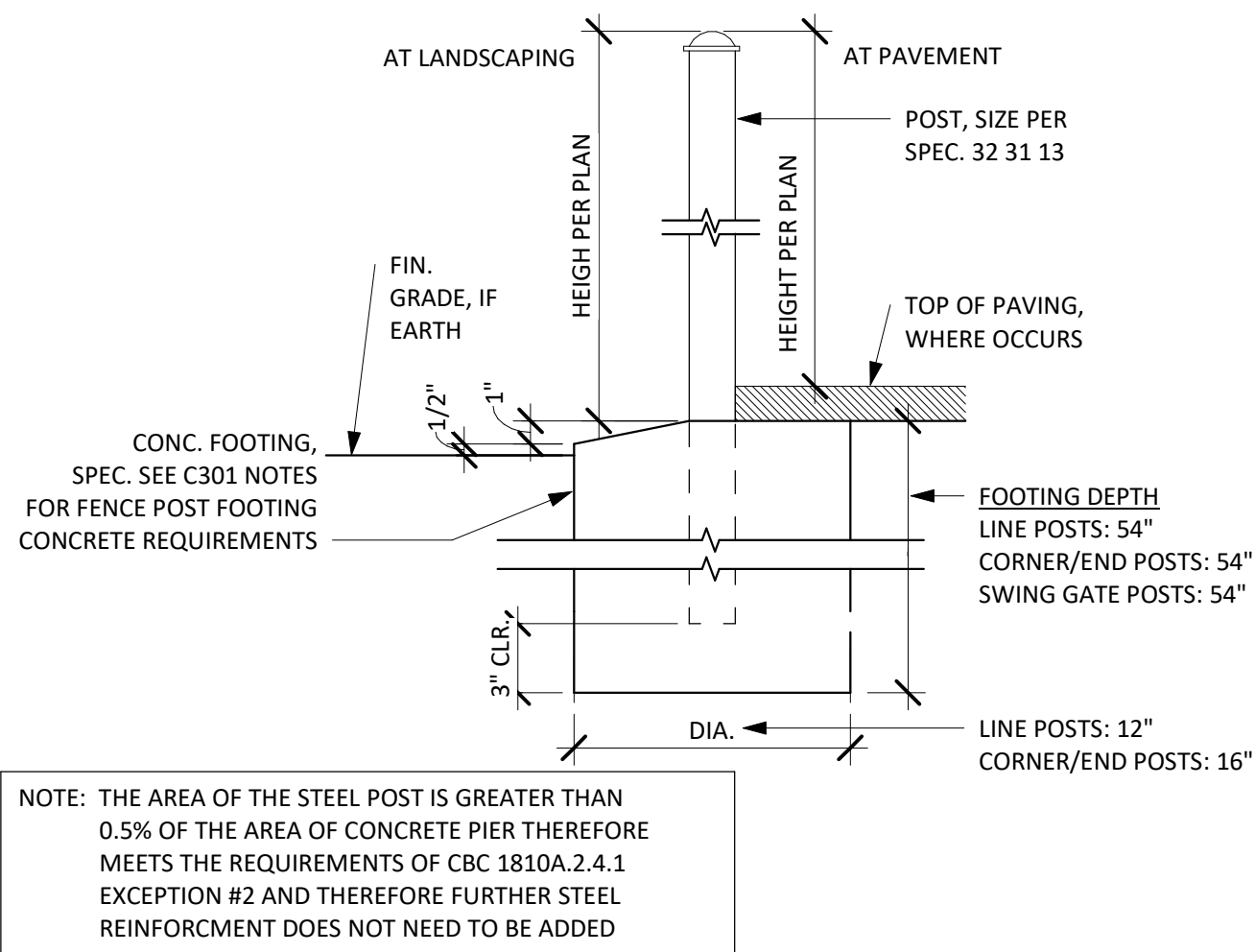
ACCESSIBLE SWING GATE HARDWARE

1" = 1'-0" 21



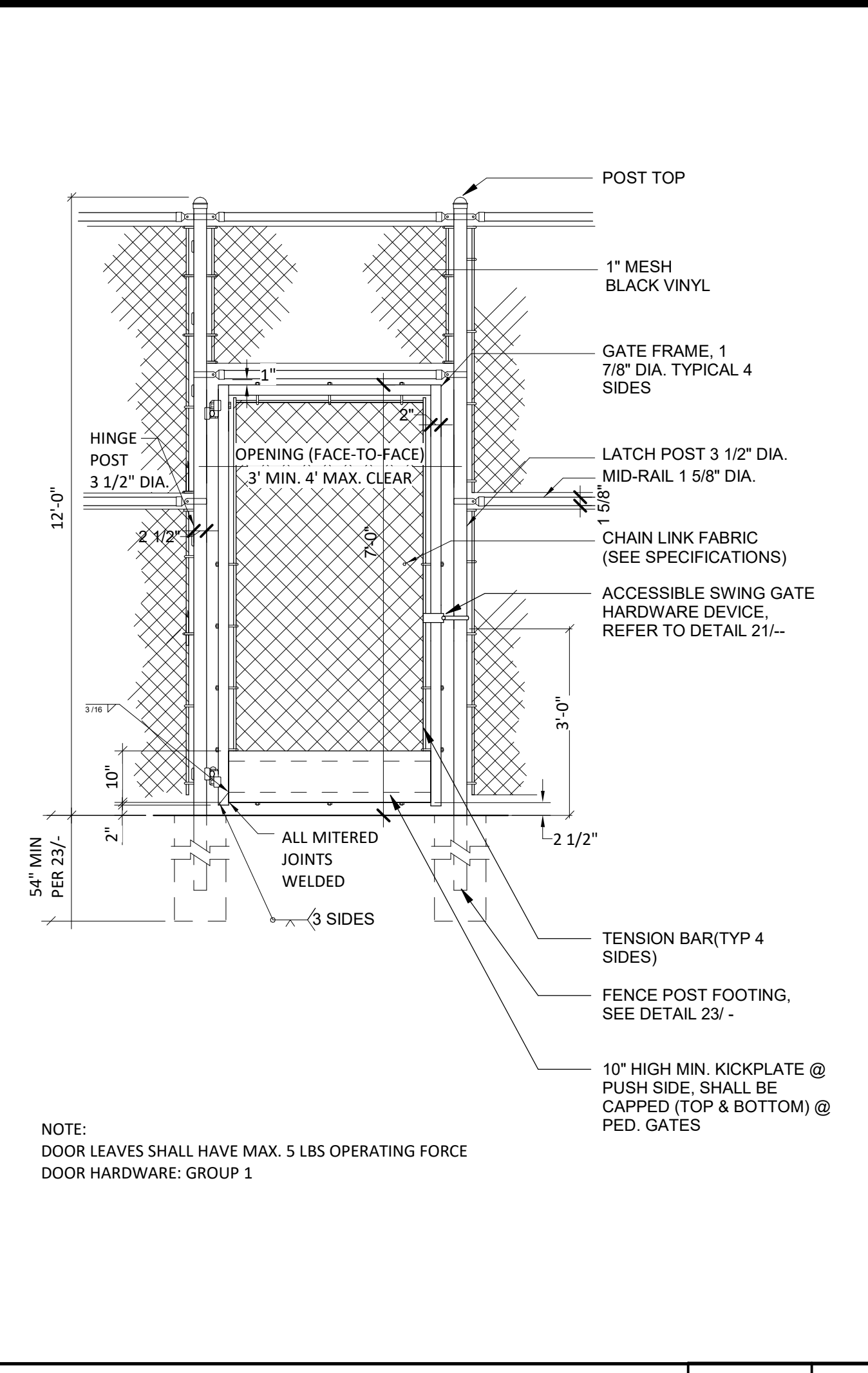
CHAIN LINK FENCE ELEVATION

1/2" = 1'-0" 22



FENCE POST FOOTING

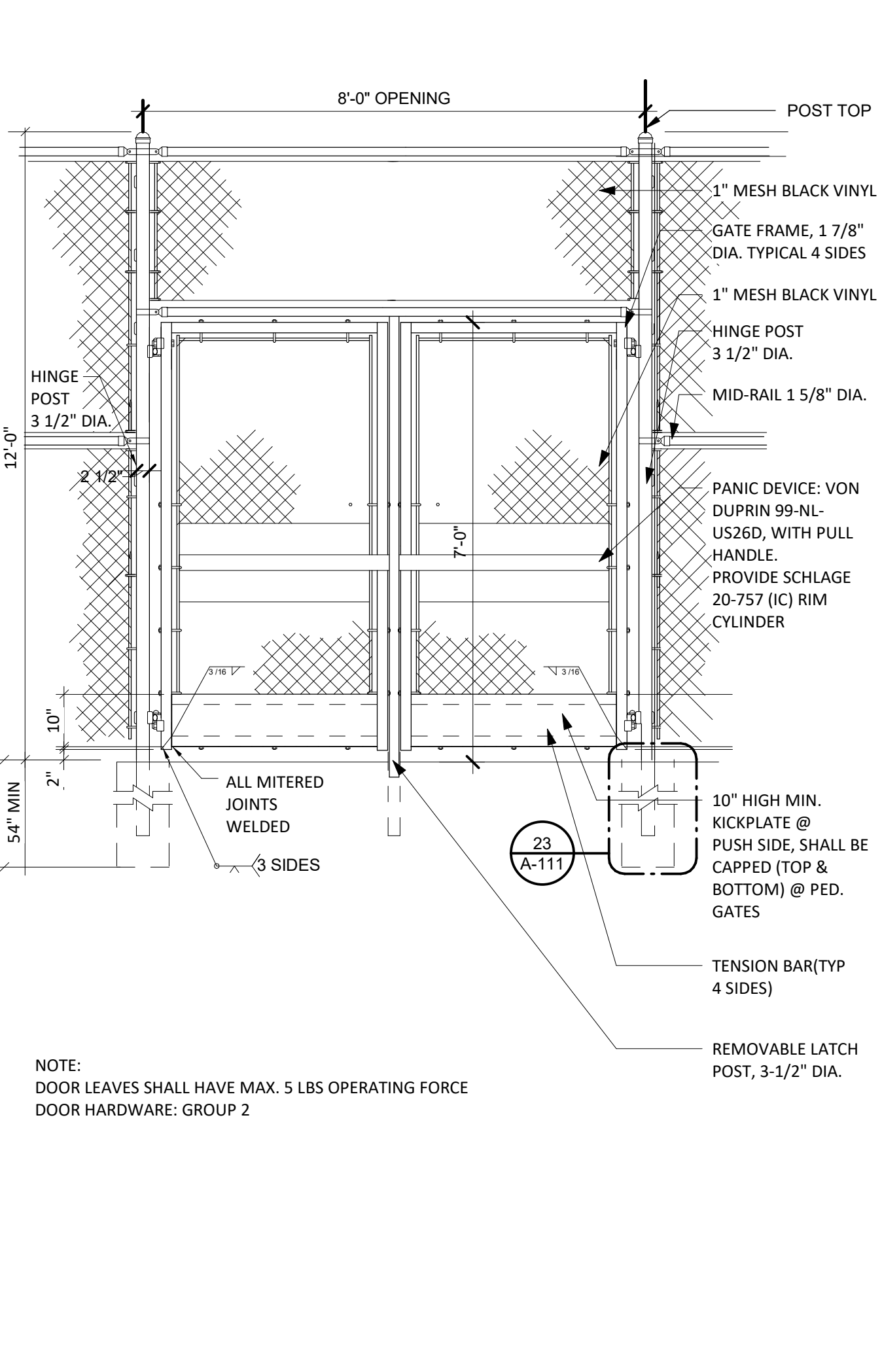
1 1/2" = 1'-0" 23



NOTE: DOOR LEAVES SHALL HAVE MAX. 5 LBS OPERATING FORCE DOOR HARDWARE: GROUP 1

CHAIN LINK FENCE - SINGLE DOOR

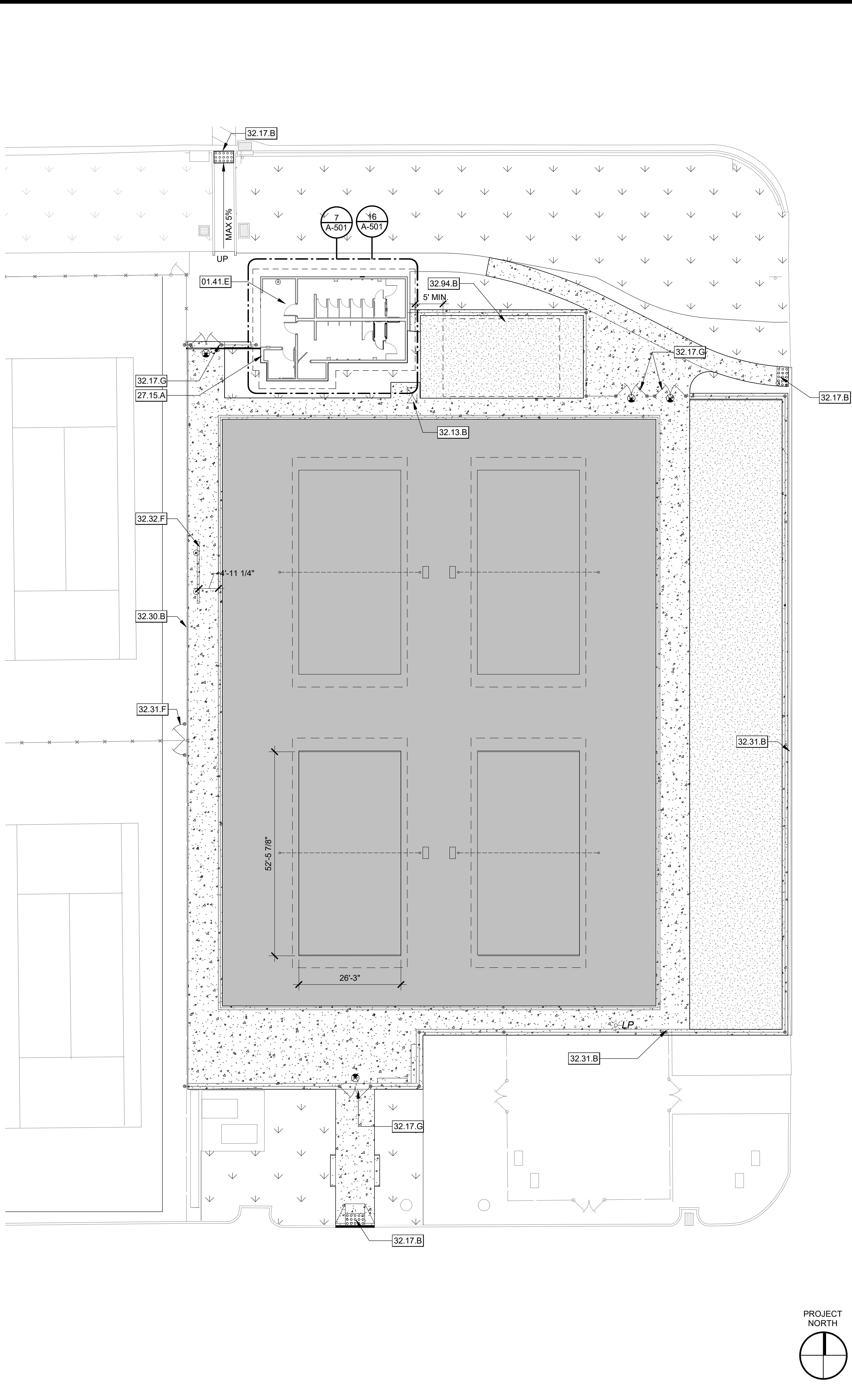
1/2" = 1'-0" 12



NOTE: DOOR LEAVES SHALL HAVE MAX. 5 LBS OPERATING FORCE DOOR HARDWARE: GROUP 2

CHAIN LINK FENCE-DOUBLE DOOR

1/2" = 1'-0" 14



ENLARGED SITE PLAN

1/16" = 1'-0" 4

KEYNOTES

- 01.41.E (E) ACCESSIBLE MEN & WOMEN RESTROOM, DSA#02-106610, REFER TO SHEET A-501  
27.15.A (E) WALL MOUNTED JUNCTION BOX "FA" FOR FIRE ALARM, PER DSA # 02-106610  
32.13.B (N) HIGH-LOW DRINKING FOUNTAIN, PER F/C702  
32.17.B (N) 36" WIDE TRUNCATED DOMES BAND, PER H/C701  
32.17.G (N) 8" WIDE DOUBLE GATES, PER DETAIL 14/-  
32.30.B (E) 12'-0" TALL CHAIN LINK FENCE  
32.31.B (N) 12'-0" TALL CHAIN LINK FENCE, PER DETAIL 22.23/-  
32.31.F (N) SINGLE SWING GATE, PER DETAIL 12/-  
32.32.F (N) SCOREBOARD, REFER TO PC DRAWINGS  
32.94.B (N) 20'X30' SHADE STRUCTURE, REFER TO PC DRAWINGS

LEGEND - ENLARGED SITE PLAN

- (N) CONCRETE PAVING, REFER TO CIVIL DRAWINGS FOR DETAILING  
(N) SYNTHETIC TURF, REFER TO CIVIL DRAWINGS FOR DETAILING  
(N) COURT SAND, REFER TO CIVIL DRAWINGS FOR DETAILING  
(N) LANDSCAPING, REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION  
(E) LANDSCAPING  
(N) EGRESS SIGN

AGENCY APPROVAL DSA# 02-122861

196

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4000 Suisun Valley Rd, Fairfield,  
CA 94534

SHEET TITLE

SITE PLAN &  
DETAILS

DRAWN BY: XX

JOB NUMBER: 24056

SHEET NO.

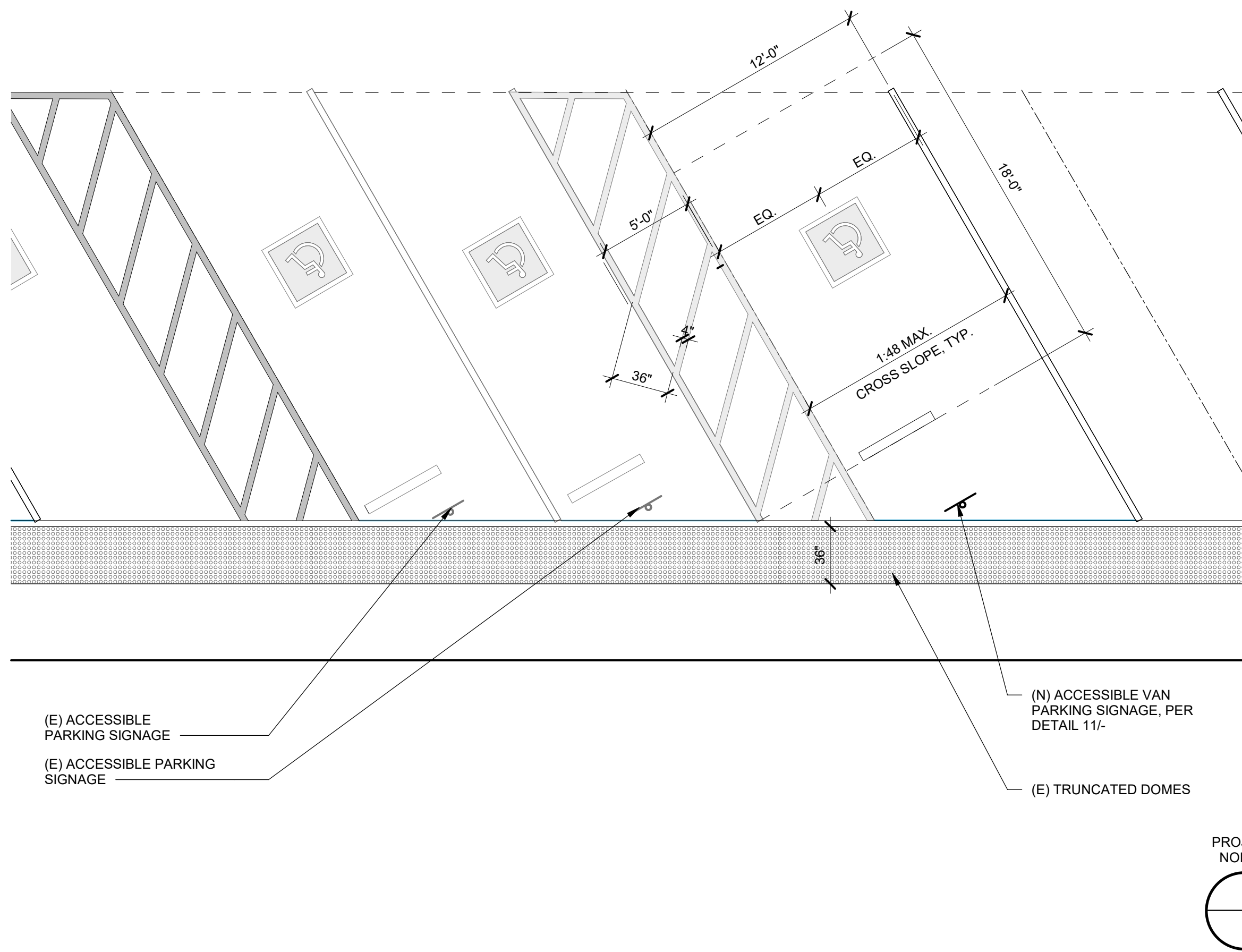
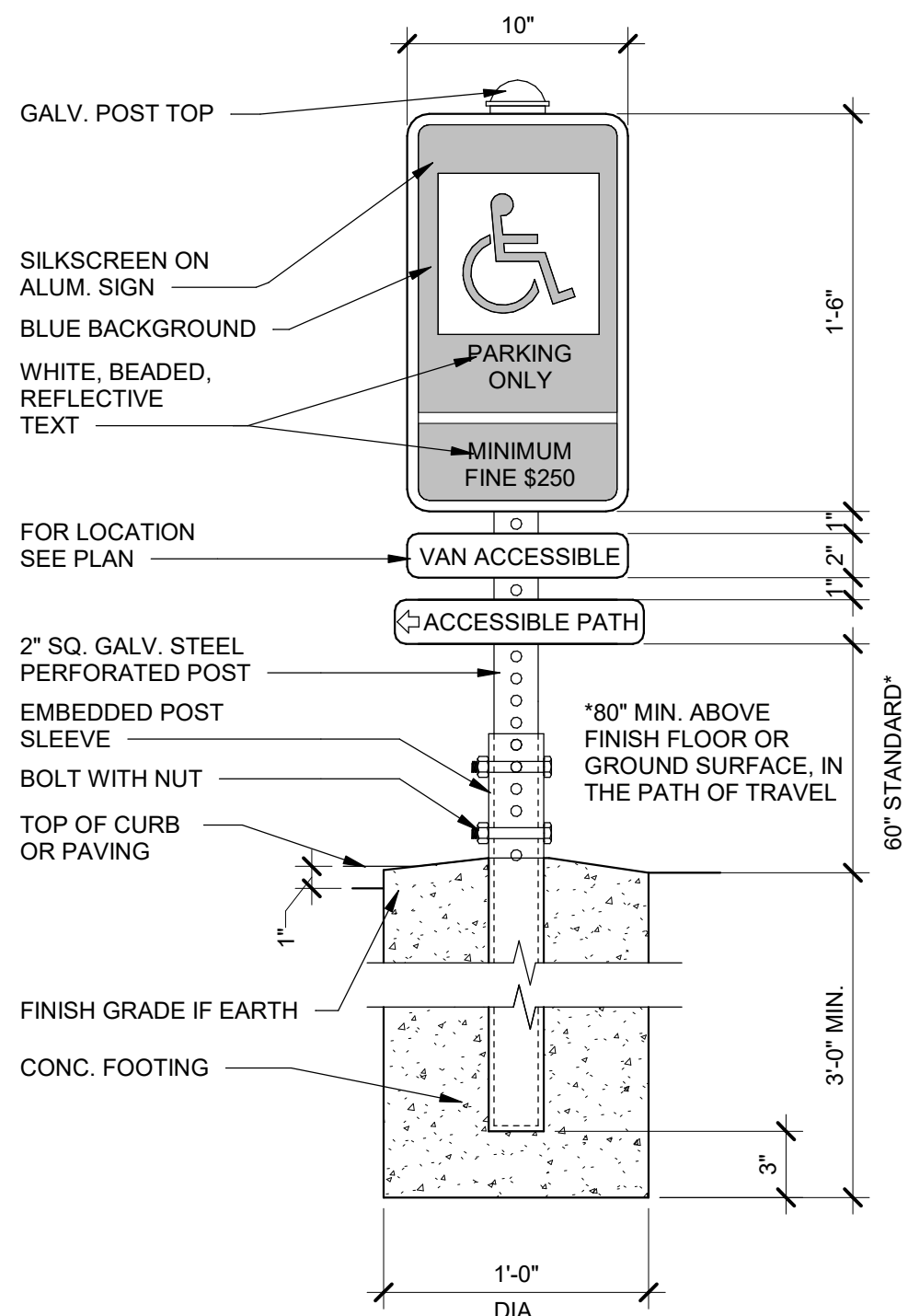
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DATE: FEBRUARY 14, 2025

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ACC. PARKING LOT SIGNAGE

1 1/2" = 1'-0"

11

ADA PARKING LOT

3/16" = 1'-0"

2

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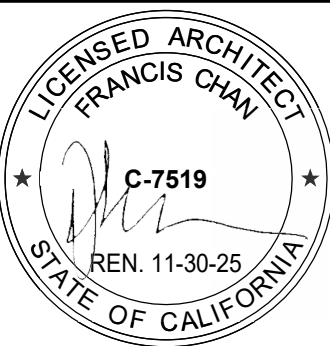
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SHEET TITLE

**SITE PLAN & DETAILS**

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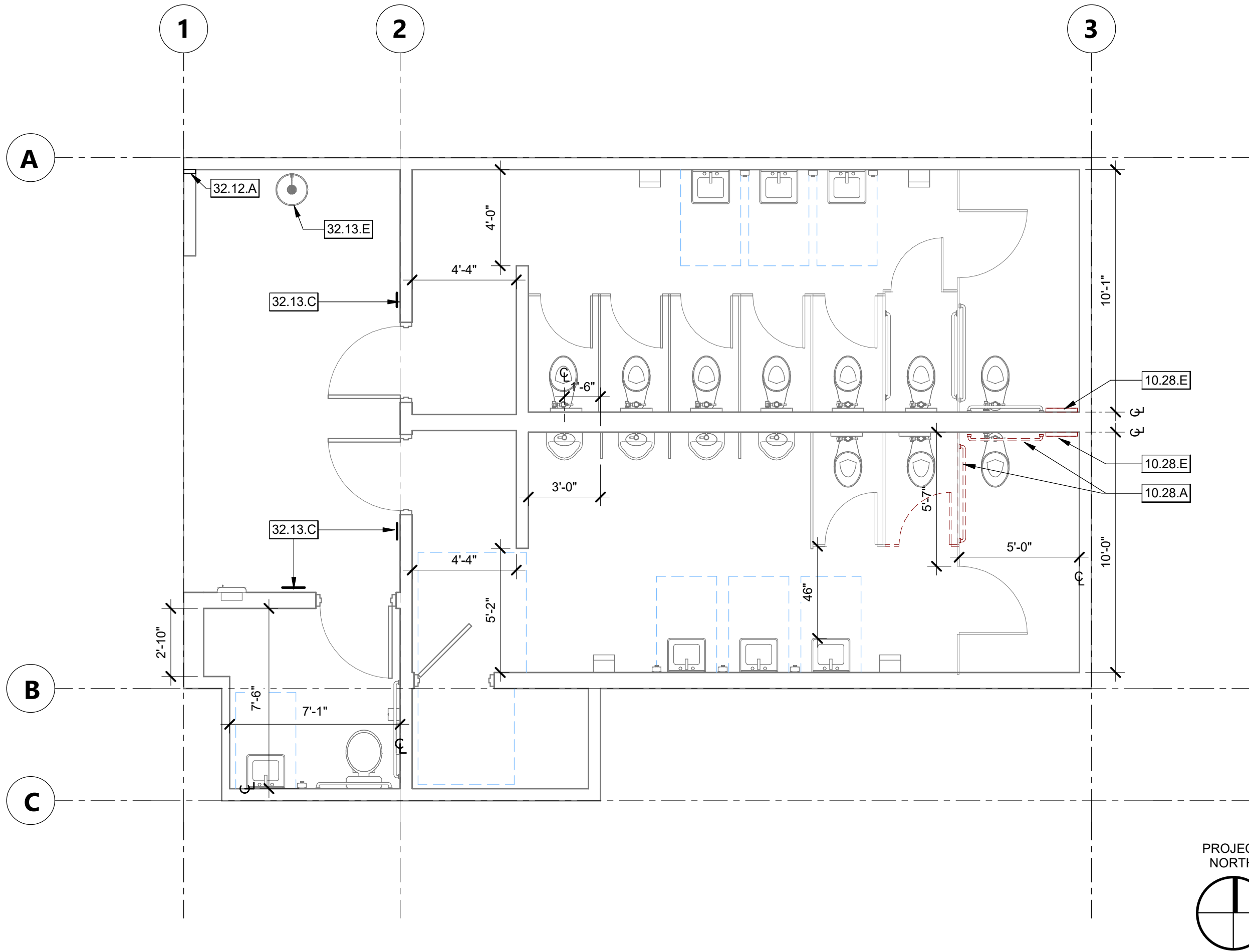
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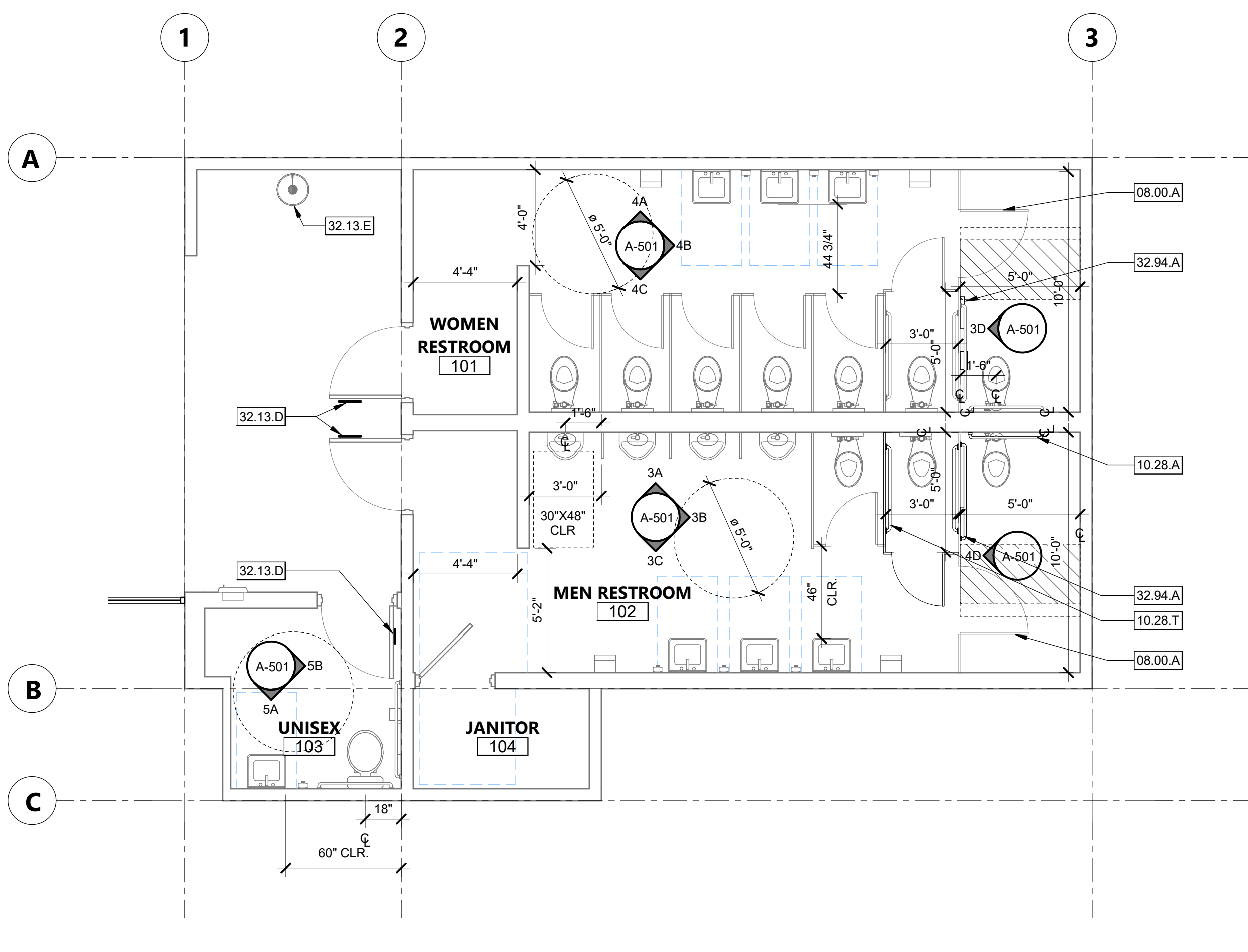


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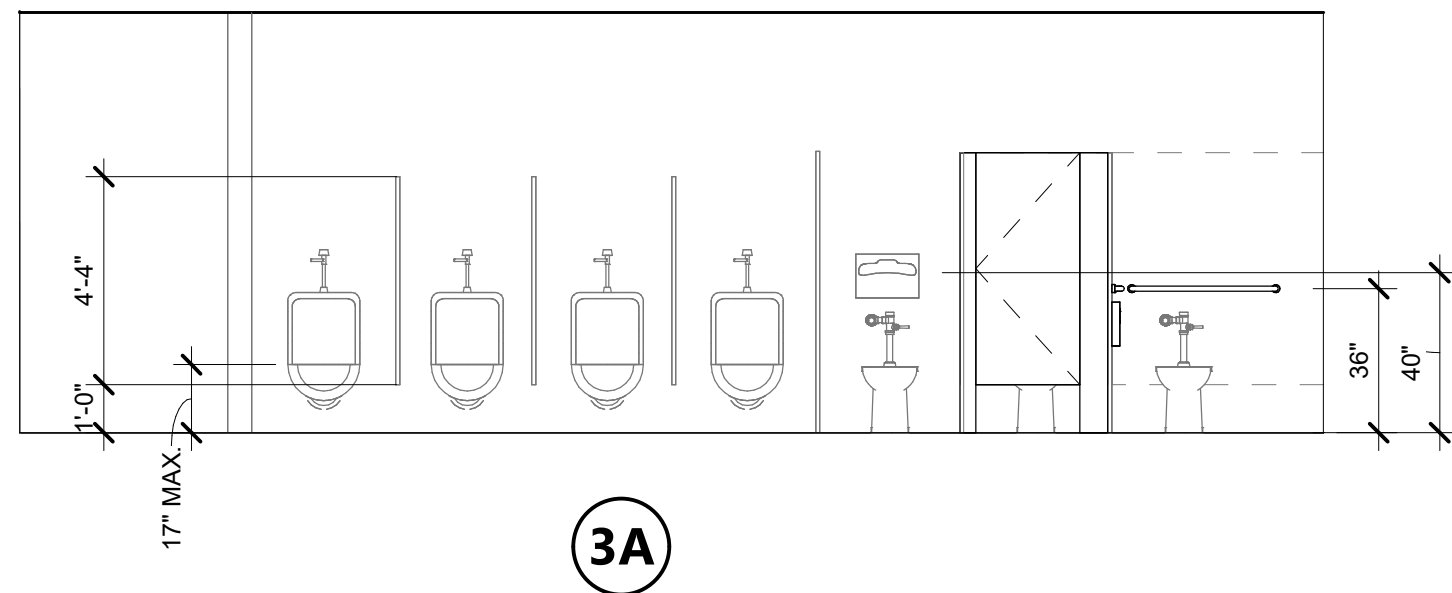
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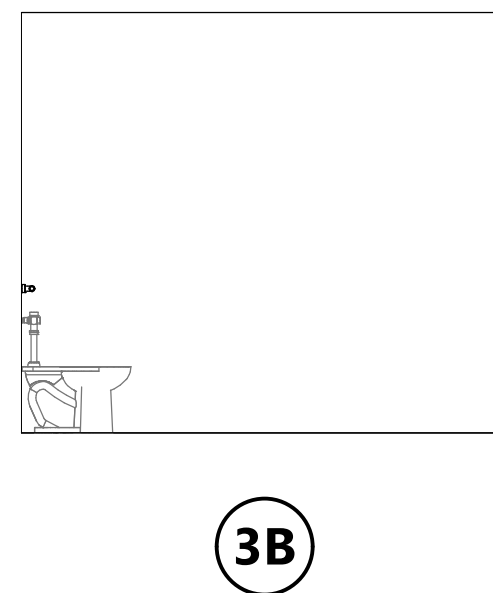


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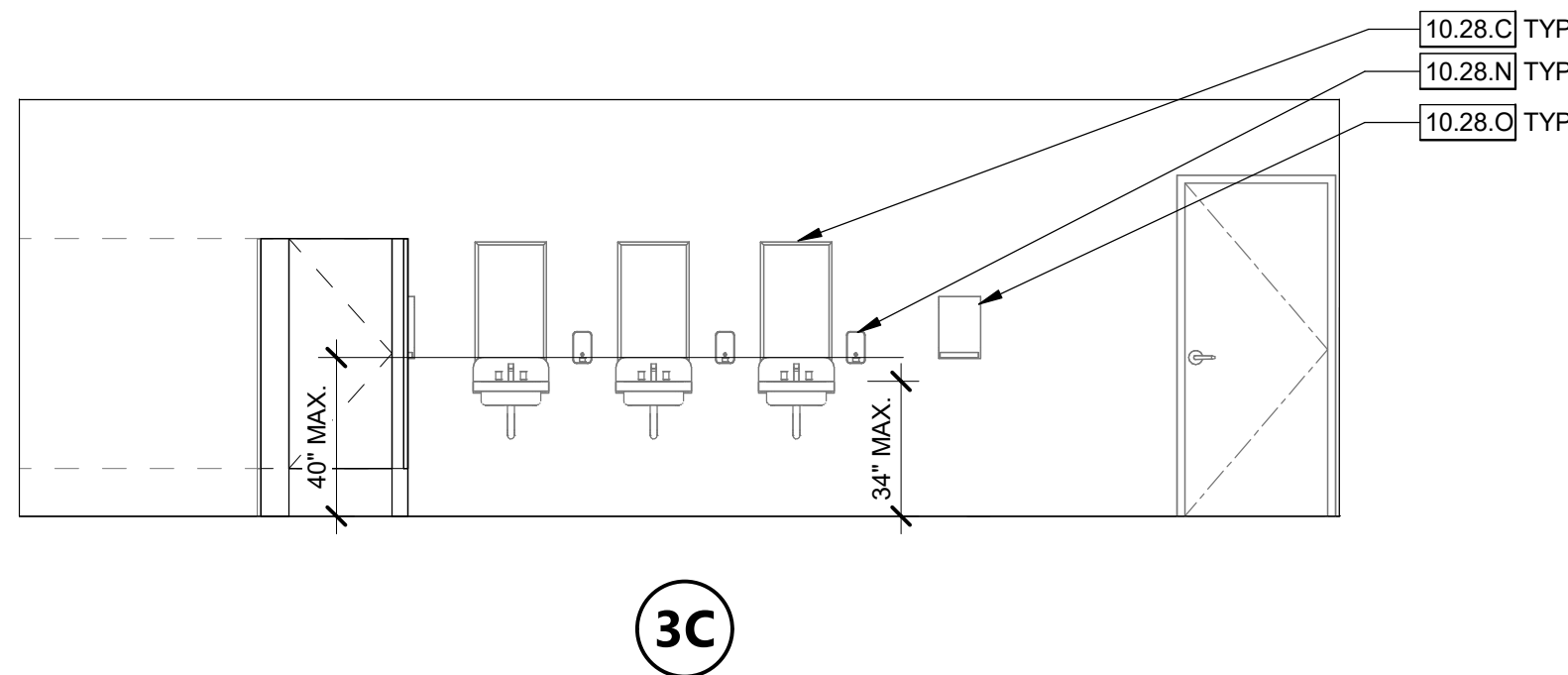
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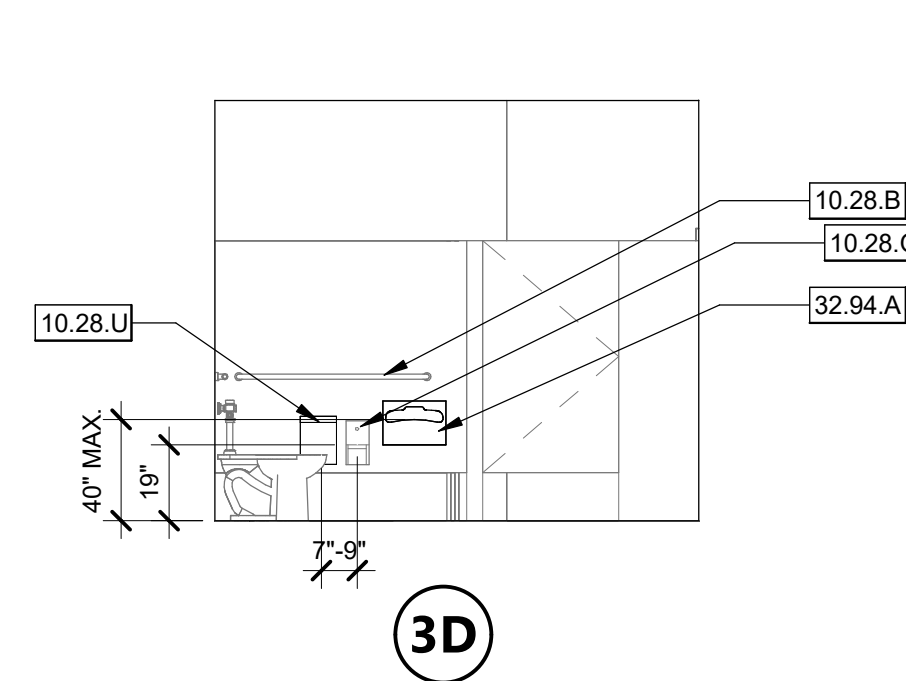
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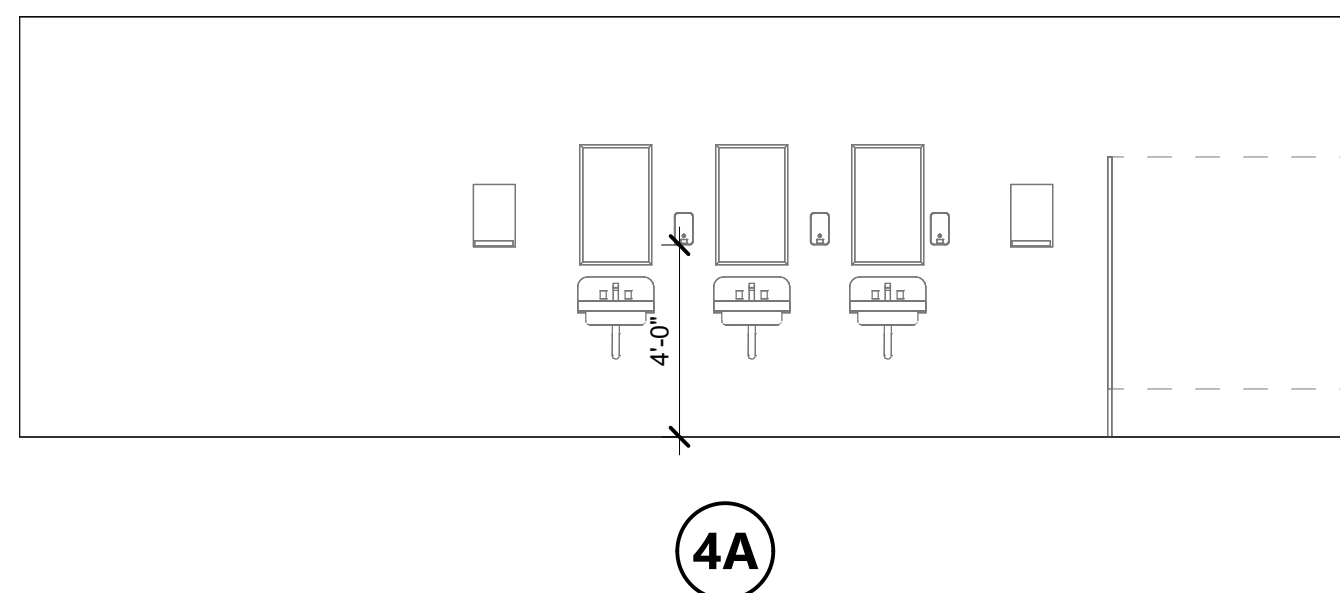
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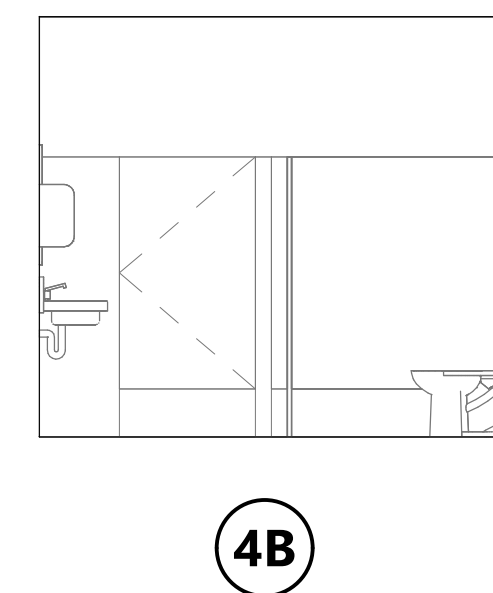
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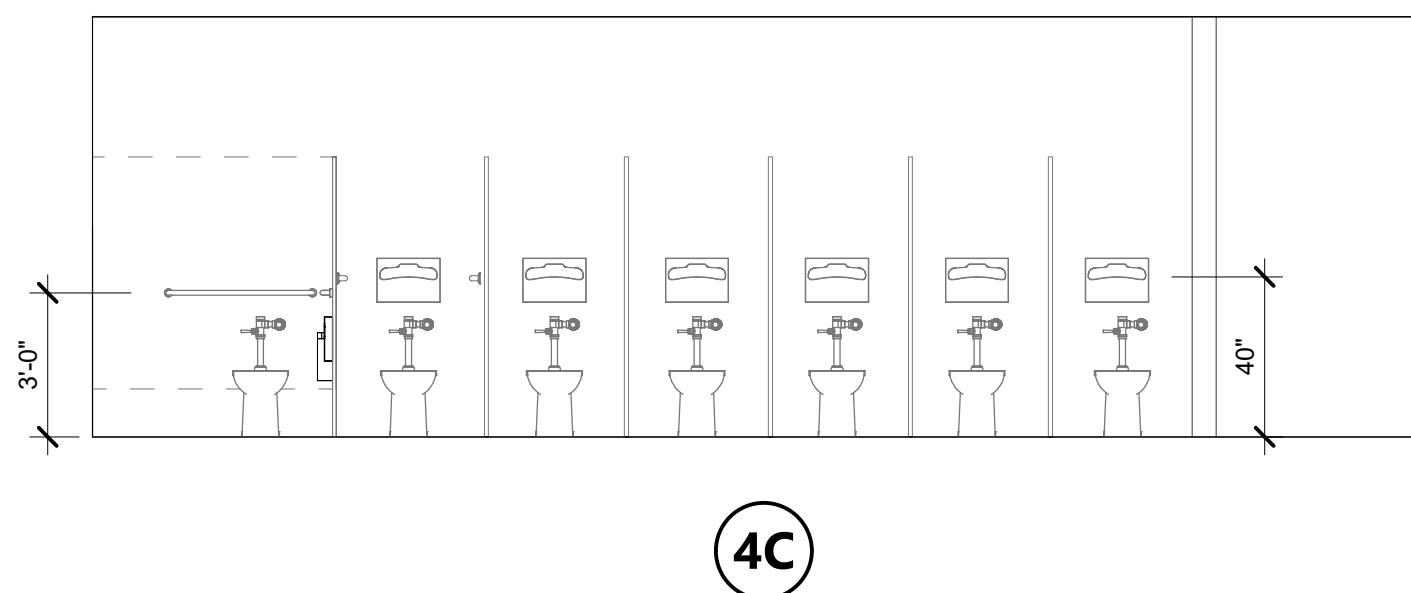
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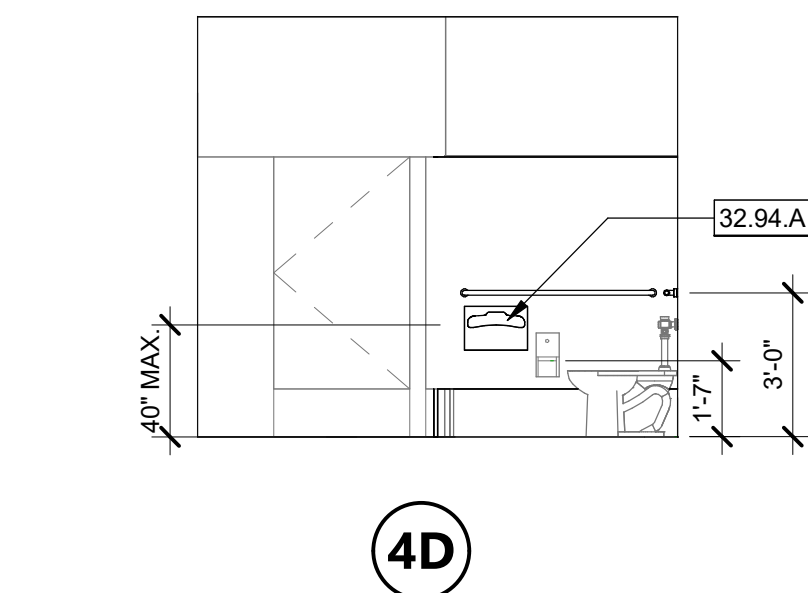
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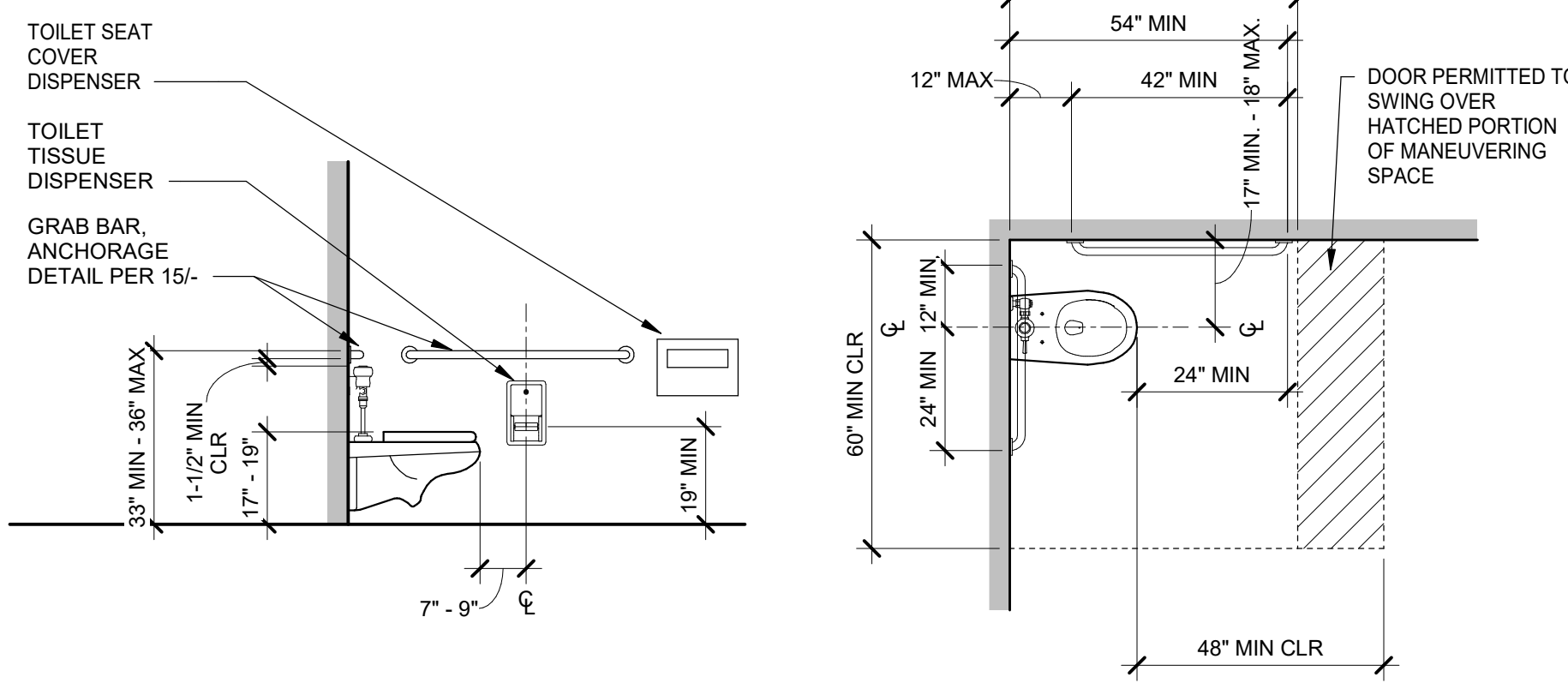
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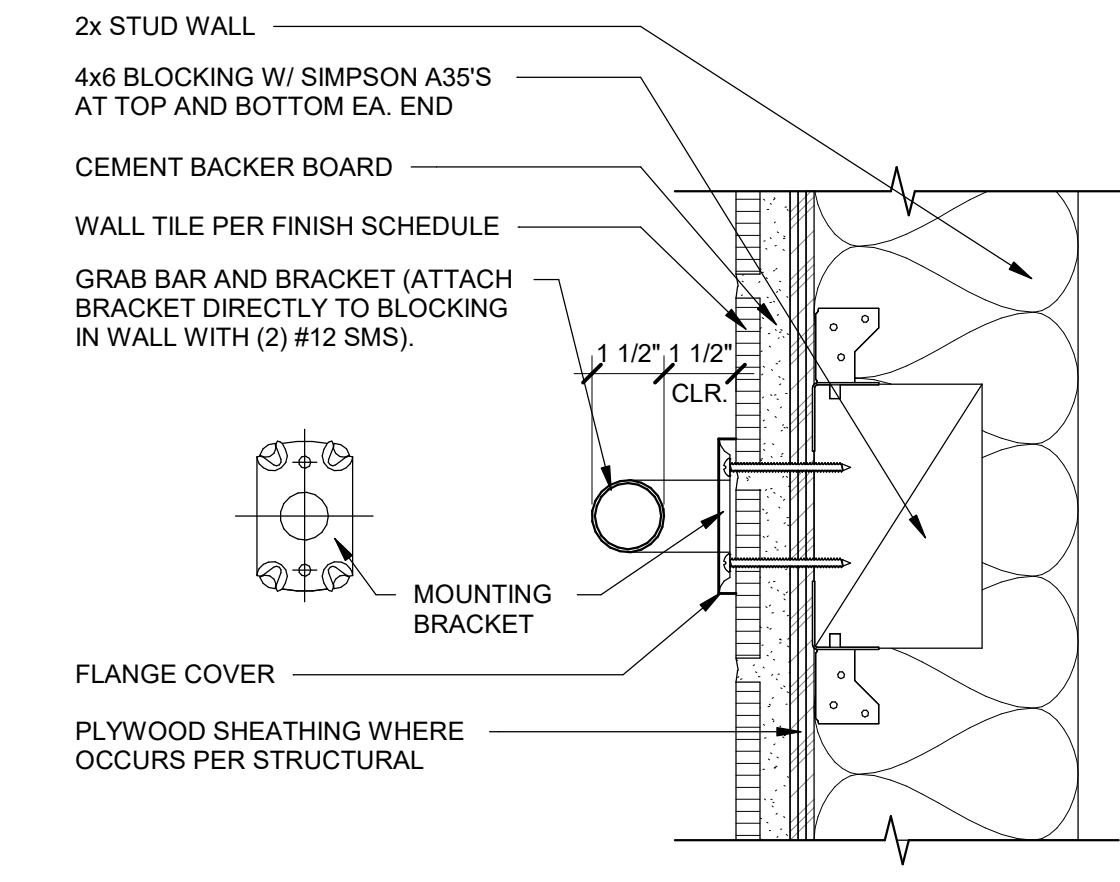
WOMEN RESTROOM - 102

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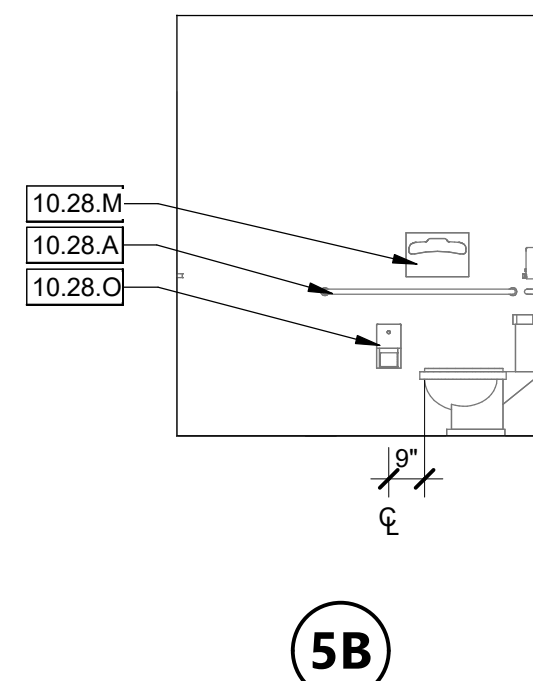
TYP. ACCESSIBLE WATER CLOSET

N.T.S. 20

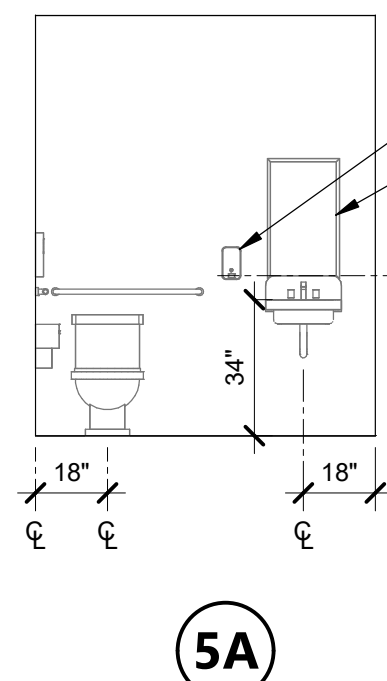


GRAB BAR ANCHORAGE DETAIL

3" = 1'-0" 15



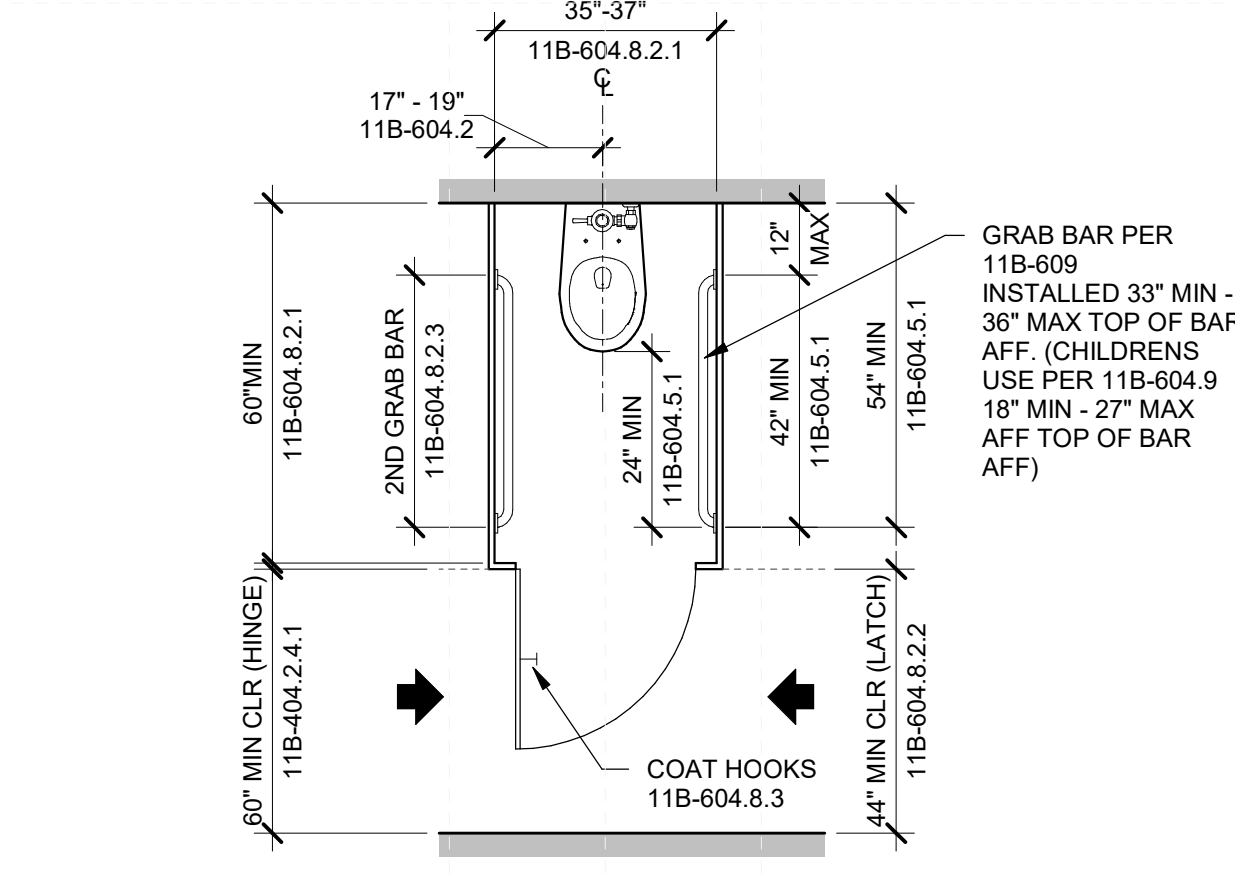
5B



5A

UNISEX RESTROOM - 103

1/4" = 1'-0" 10



AMBULATORY WATER CLOSET

3/8" = 1'-0" 5

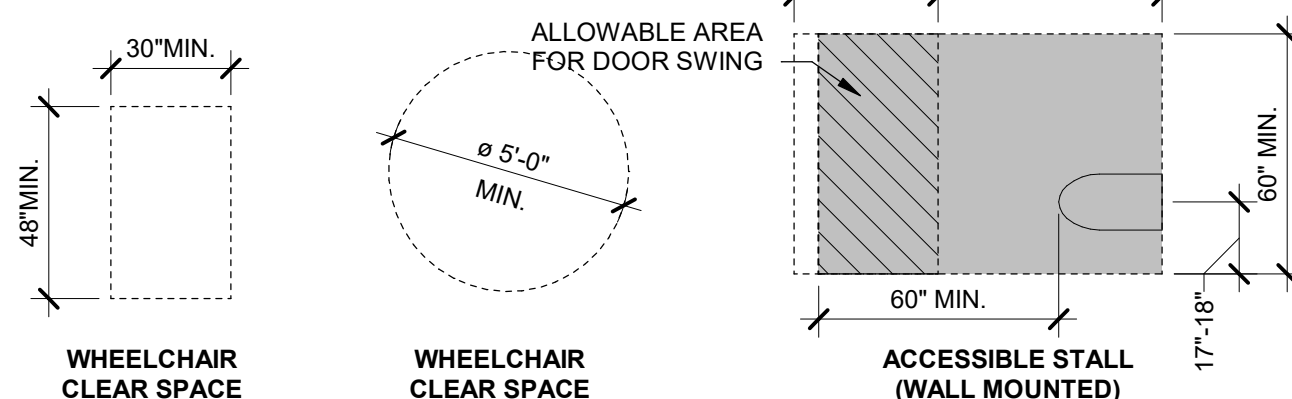
KEYNOTES

- 08.00.A EXISTING ACCESSIBLE STALL DOOR, 34" CLEAR WHEN DOOR OPEN 90 DEG.  
10.28.A REINSTALL GRAB BAR, LOCATION PER 61-  
10.28.B REMOVE AND SALVAGE (E) GRAB BAR  
10.28.C (E) MIRROR  
10.28.E REMOVE AND SALVAGE (E) TOILET SEAT COVER DISPENSER  
10.28.M (E) SURFACE MOUNT TOILET SEAT COVER DISPENSER  
10.28.N (E) SURFACE MOUNT SOAP DISPENSER  
10.28.O (E) SURFACE MOUNT PAPER TOWEL DISPENSER  
10.28.T (N) GRAB BAR PER 51A-501  
10.28.U (E) SANITARY NAPKIN DISPENSER  
32.12.A (E) KNOX BOX, PROTECT IN PLACE  
32.13.C (E) TACTILE ID SIGN  
32.13.D (N) GEOMETRIC DOOR SYMBOL, REFER TO 81A-923  
32.13.E (E) TO REMAIN, ACCESSIBLE DRINKING FOUNTAIN  
32.94.A REINSTALL TOILET SEAT COVER DISPENSER, REFER TO ELEVATION DRAWING

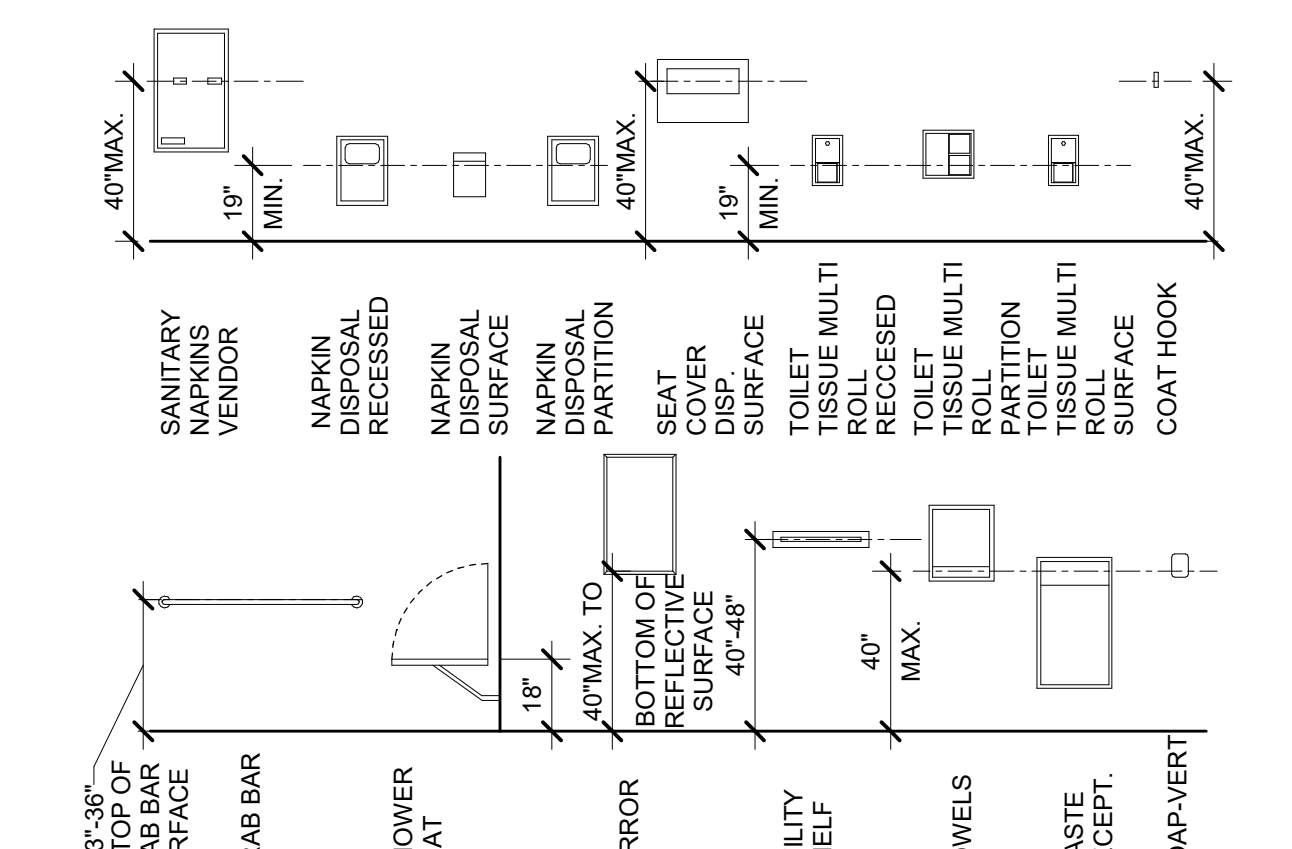
LEGEND - RESTROOM GENERAL NOTES

1. MOUNTING HEIGHTS SHOWN ARE TYPICAL, UNLESS OTHERWISE NOTED.  
2. ALL ACCESSORIES SHALL BE ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 40" ABOVE FINISH FLOOR.  
3. SEE ENLARGED TOILET PLAN AND INTERIOR ELEVATION DRAWINGS FOR TOILET ACCESSORY LOCATIONS.  
4. ALL DIMENSIONS FOR ACCESS COMPLIANCE ARE TO FACE OF FINISH.  
5. (E) LAVATORIES ARE EQUIPPED WITH LAVATORY GUARDS, MOLDED VINYL COVERING FOR SUPPLY AND DRAIN PIPING WITH FLIP TOP AT VALVE TO ALLOW SERVICE WITHOUT REMOVING COVERING.  
6. THE SPACE BETWEEN WALL AND GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1/2" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MIN.

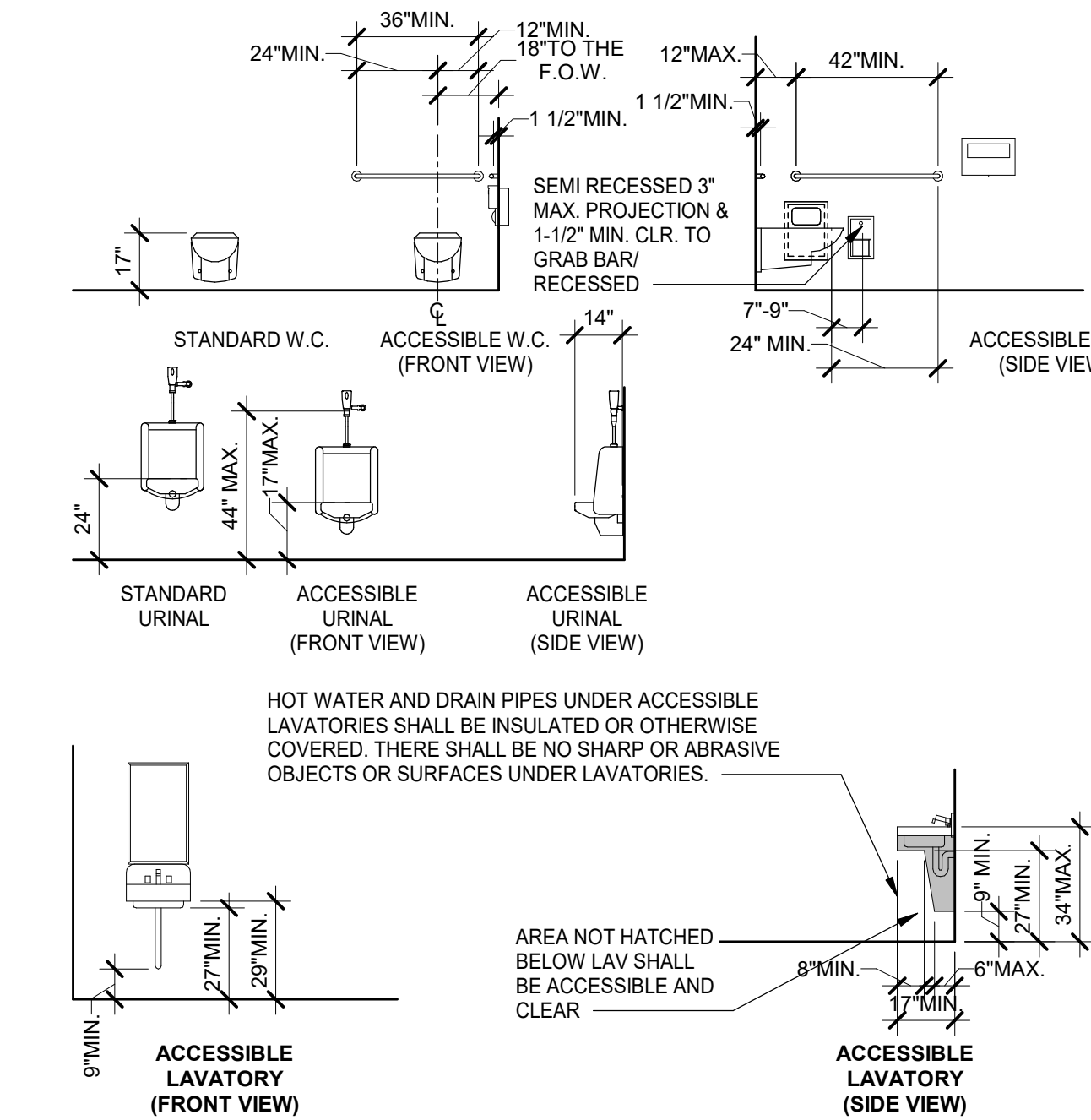
CLEARANCES



MOUNTING HEIGHTS



TOILET FIXTURE HEIGHTS



AGENCY APPROVAL DSAE 02-122861

19.6

185 CLARA STREET, SUITE 101A  
SAN FRANCISCO, CA 94107  
TEL 628.212.9200

CONSULTANTS

CIVIL ENGINEER  
BLAIR, CHURCH & FLYNN  
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LANDSCAPE ENGINEER  
BLAIR, CHURCH & FLYNN  
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ELECTRICAL ENGINEER  
ATUM ENGINEERING  
3533 YORK LANE  
SAN RAMON, CA 94582  
TE (913) 961-1658

ARCHITECT STAMP CONSULTANT STAMP



REVISIONS

| NO.      | DATE | DESCRIPTION   |
|----------|------|---------------|
| 05.13.25 |      | ISSUE FOR BID |
|          |      |               |
|          |      |               |
|          |      |               |
|          |      |               |
|          |      |               |
|          |      |               |
|          |      |               |
|          |      |               |

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE  
SOLANO COMMUNITY COLLEGE  
4000 Suisun Valley Rd  
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX  
4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE

ENLARGED RESTROOM

DRAWN BY: XX JOB NUMBER: 24056

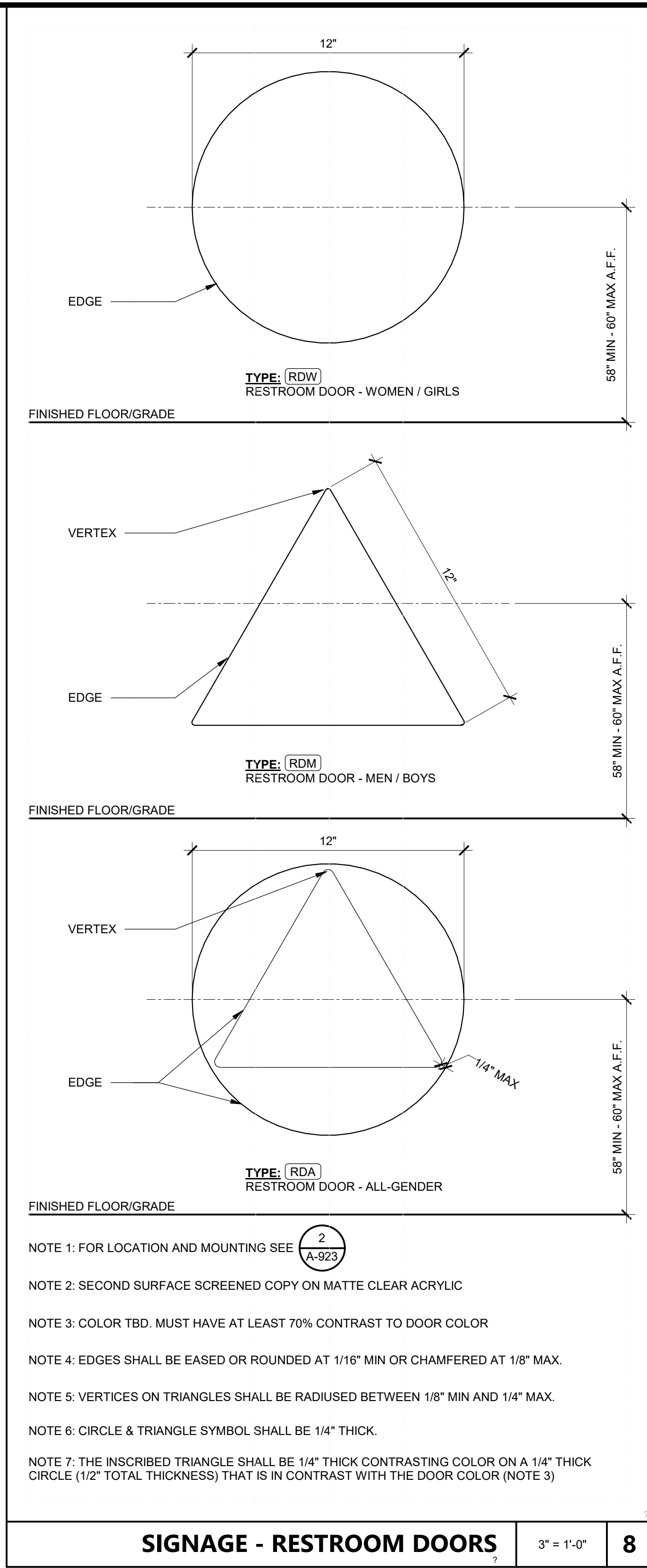
SHEET NO.

A-501

DATE: FEBRUARY 14, 2025

DSA BACKCHECK

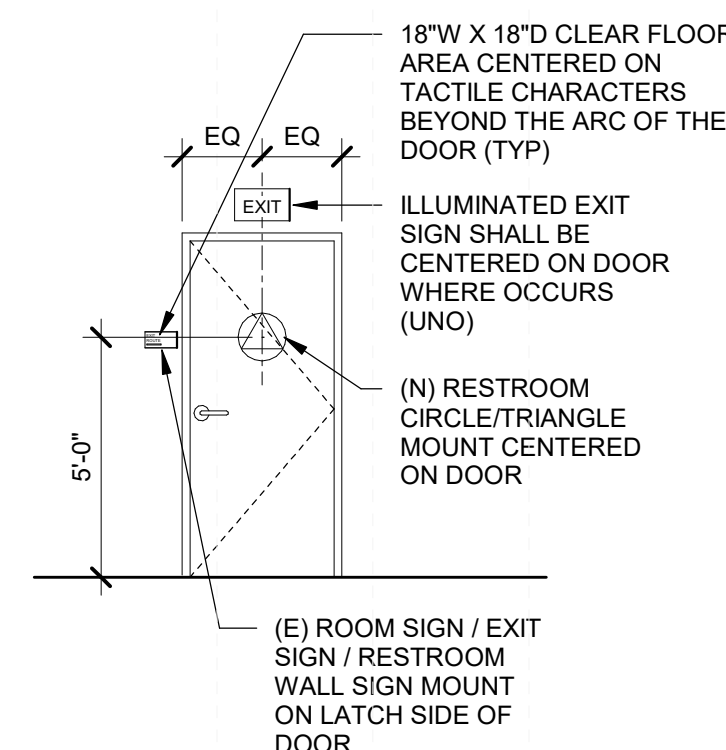






1. PROVIDE SIGNS WHERE INDICATED ON 1/A-501.
2. RAISED CHARACTERS SHALL COMPLY WITH SECTION 11B-703.2 AND SHALL BE DUPLICATED IN BRaille.  
  
DEPTH/RAISED CHARACTERS SHALL BE 1/32"MINIMUM ABOVE THEIR BACKGROUND  
CASE: CHARACTERS SHALL BE UPPER CASE  
STYLE: CHARACTERS SHALL BE SANS SERIF  
PROPORTIONS: THE WIDTH OF LETTER "O" SHALL BE 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF LETTER "I"  
HEIGHT: 5/8 INCH MINIMUM AND 2 INCHES MAXIMUM
3. BRaille SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTION 11B-703.3.  
  
DIMENSIONS: BASE DOT DIAMETER 0.059 INCHES TO 0.063 INCHES  
SPACING IN EACH CELL AT 10 INCHES ON CENTER  
SPACING BETWEEN CELLS TO BE 0.30 INCHES  
DOT HEIGHT TO BE BETWEEN 0.025 INCHES TO 0.037 INCHES WITH DOWLED TOPS  
BRaille SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT
4. CHARACTERS AND SYMBOLS SHALL BE LIGHT-ON-DARK OR DARK-ON-LIGHT CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND.
5. FOR ALL SIGNS MOUNTED ON GLAZING COORDINATE OPPOSITE SIDE SIGN IN THE SAME LOCATION, WHERE NO SIGN IS SPECIFIED ON OPPOSITE SIDE, PROVIDE A BLANK SIGN TO MATCH PER  

3

A-623



- |                           |  |   |          |
|---------------------------|--|---|----------|
| <b>SIGNAGE - MOUNTING</b> |  | $1/4" = 1'-0"$  | <b>7</b> |
|                           |  | <p>ATTACHMENT NOTES:</p> <ol style="list-style-type: none"> <li>1. AT SMOOTH SURFACES SUCH AS METAL, GYPSUM BOARD AND GLASS, ATTACH WITH D.F. TAPE AND SILICONE AS REQUIRED.</li> <li>2. AT ROUGH SURFACES SUCH AS STUCCO, CONCRETE AND CMU ATTACH USING VANDAL RESISTANT FASTENERS.</li> </ol> |          |
| <b>SIGNAGE - MOUNTING</b> |  | $3" = 1'-0"$  | <b>3</b> |

|   |          |                   |           |
|---|----------|-------------------|-----------|
| AGENCY APPROVAL   |          | DSA#              | 02-122861 |
| <div></div> <div>185 CLARA STREET, SUITE 101A<br/>SAN FRANCISCO, CA 94107<br/>TEL 628.212.9200</div>   |          |                   |           |
| CONSULTANTS   |          |                   |           |
| <div>CIVIL ENGINEER<br/>BLAIR, CHURCH &amp; FLYNN<br/>451 CLOVIS AVENUE, SUITE 200<br/>CLOVIS, CA 93612<br/>TEL (559) 326-1400</div> <div>LANDSCAPE ENGINEER<br/>BLAIR, CHURCH &amp; FLYNN<br/>451 CLOVIS AVENUE, SUITE 200<br/>CLOVIS, CA 93612<br/>TEL (559) 326-1400</div> <div>ELECTRICAL ENGINEER<br/>ATUM ENGINEERING<br/>3533 YORK LANE<br/>SAN RAMON, CA 94582<br/>TE (913)961-1658</div> |          |                   |           |
| ARCHITECT STAMP   |          | CONSULTANT STAMP  |           |
| <div></div>  |          |                   |           |
| REVISIONS   |          |                   |           |
| NO.   | DATE     | DESCRIPTION       |           |
|   | 05.13.25 | ISSUE FOR BID     |           |
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| PROJECT OWNER & TITLE<br><b>SOLANO COMMUNITY COLLEGE</b><br>4000 Suisun Valley Rd<br>Fairfield, CA 94534  |          |                   |           |
| <b>SAND VOLLEYBALL COMPLEX</b><br>4000 Suisun Valley Rd, Fairfield, CA 94534  |          |                   |           |
| SHEET TITLE   |          |                   |           |
| <b>SIGNAGE DETAILS</b>  |          |                   |           |
| DRAWN BY: XX  |          | JOB NUMBER: 24056 |           |
| SHEET NO.   |          |                   |           |
| <b>A-923</b>  |          |                   |           |
| DATE: FEBRUARY 14, 2025   |          |                   |           |



FILE LOCATION: G:\shared drives\01\_projects\madi architecture\_472447\_42 - solano ccd sand volleyball courts\05\_drawings\01\_DWG\2447\_42 - E000 - General Information.dwg  
LAST SAVED ON: 1/06/25 at 4:12pm, PLOTTED ON: 2/07/25 at 8:16am

| ELECTRICAL COMPONENT ANCHORAGE NOTES  |
|---|
| ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.  |
| 1. ALL PERMANENT EQUIPMENT AND COMPONENTS   |
| 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL AND TELECOM UTILITIES, "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.  |
| 3. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4'-0" OR GREATER ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.   |
| CEC<br>CFC<br>CCT<br>CKT<br>CL<br>CLG<br>CO<br>COMM<br>CSFM<br>CTR<br>(D)<br>DET<br>DIM<br>DIST<br>DP<br>DWG<br>ELEC<br>EM  |
| THE ATTACHMENTS OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.   |
| 1. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.   |
| 2. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR HUNG FROM A WALL.   |
| THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.   |
| ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTES   |
| ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26   |
| THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. |
| ELECTRICAL DISTRIBUTIONS SYSTEMS (E):<br><input checked="" type="checkbox"/> OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS<br><input type="checkbox"/> OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI (OSHPD) PRE-APPROVAL (OPM #) _____.  |

NOTE:

1. THERE ARE NO LARGE PIECES OF EQUIPMENT WEIGHING OVER 20LBS AS PART OF THIS SCOPE OF WORK, SO ANCHORAGE DETAILS AND CALCULATIONS SHALL NOT BE REQUIRED.

| ABBREVIATIONS |                                |        |                                      |
|---------------|--------------------------------|--------|--------------------------------------|
| A             | AMPERE                         | EMT    | ELECTRICAL METALLIC TUBING           |
| ABV           | ABOVE                          | EOL    | END OF LINE RESISTOR                 |
| AF            | AMPERE FRAME, AMPERE FUSE      | EOP    | EQUIPMENT                            |
| AFF           | ABOVE FINISHED FLOOR           | FA     | FIRE ALARM                           |
| AIC           | AMPERE INTERRUPTING CAPACITY   | FACP   | FIRE ALARM CONTROL PANEL             |
| ARCH          | ARCHITECTURAL                  | (F)    | FUTURE                               |
| AS            | AMPERE SWITCH                  | FIN    | FINISH                               |
| AT            | AMPERE TRIP                    | FLR    | FLOOR                                |
| ATS           | AUTOMATIC TRANSFER SWITCH      | G, GND | GROUND                               |
| BKR           | BREAKER                        | GRC    | GALVANIZED RIGID CONDUIT             |
| BLDG          | BUILDING                       | HGT    | HEIGHT                               |
| C             | CONDUIT                        | HP     | HORSEPOWER                           |
| CATV          | CABLE TELEVISION               | IC     | INTERCOM                             |
| CB            | CIRCUIT BREAKER                | IDF    | INTERMEDIATE DISTRIBUTION FRAME      |
| CBC           | CALIFORNIA BUILDING CODE       | IMC    | INTERMEDIATE METAL CONDUIT           |
| CD            | CANDELA                        | INFO   | INFORMATION                          |
| CEC           | CALIFORNIA ELECTRICAL CODE     | JB     | JUNCTION BOX                         |
| CFC           | CALIFORNIA FIRE CODE           | KAIC   | KILOAMPERE INTERRUPTING CAPACITY     |
| CKT           | CIRCUIT                        | KV     | KILOVOLT                             |
| CL            | CENTER LINE                    | KVA    | KILOVOLT AMPERE                      |
| CLG           | CEILING                        | KW     | KILOWATT                             |
| CO            | CONDUIT ONLY                   | LTG    | LIGHTING                             |
| COMM          | COMMUNICATIONS                 | LV     | LOW VOLTAGE                          |
| CSFM          | CALIFORNIA STATE FIRE MARSHALL | MAX    | MAXIMUM                              |
| CTR           | CENTER                         | KCMIL  | THOUSAND CIRCULAR MILS               |
| (D)           | DEMOLISH                       | MDF    | MAIN DISTRIBUTION FRAME              |
| DET           | DETAIL                         | MECH   | MECHANICAL                           |
| DIM           | DIMENSION                      | MH     | MANHOLE                              |
| DIST          | DISTRIBUTION                   | MIN    | MINIMUM                              |
| DP            | DISTRIBUTION PANEL             | MTD    | MOUNTED                              |
| DWG           | DRAWING                        | MTG    | MOUNTING                             |
| (E)           | EXISTING                       | NC     | NORMALLY CLOSED                      |
| ELEC          | ELECTRICAL                     | NFPA   | NATIONAL FIRE PROTECTION ASSOCIATION |
| EM            | EMERGENCY                      |        |                                      |

| COMMUNICATIONS HEADEND EQUIPMENT SYMBOLS |  |
|--|--|
|  | SIGNAL TERMINAL CABINET - FLUSH MOUNTED.                     |
|  | SIGNAL TERMINAL CABINET - SURFACE MOUNTED.                   |
|  | COMMUNICATION BACKBOARD - 4' X 8' PLYWOOD BACKING.           |
|  | DISTRIBUTION FRAME - FLOOR MOUNTED RACKS AND WIRE MANAGEMENT |
|  | DISTRIBUTION FRAME - WALL MOUNTED RACK                       |

| COMMUNICATIONS DEVICE SYMBOLS |     |      |     |        |
|-------------------------------|-----|------|-----|--------|
| POKE THRU                     | FLR | WALL | CLG | AT HGT |
|                               |     |      |     |        |
|                               |     |      |     |        |
|                               |     |      |     |        |
|                               |     |      |     |        |
|                               |     |      |     |        |

| TYPICAL COMMUNICATIONS DEVICE NOMENCLATURE |   |
|--|---|
|  | "X" DENOTES DEVICE ID# (IF APPLICABLE)<br>"Y" DENOTES MOUNTING HEIGHT (IF APPLICABLE) |

| NOTES |   |
|-------|---|
| 1.    | WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO BOTTOM OF DEVICE. UON. NO DEVICES SHALL WEIGH MORE THAN 20LBS.  |
| 2.    | WALL MOUNTED DEVICES SHOWN AT A DEFINED HEIGHT SHALL BE MOUNTED WITH THE BOTTOM AT 1" ABOVE COUNTER BACKSPLASH, UON.  |
| 3.    | WHERE POWER AND LOW VOLTAGE FLOOR BOXES OR POKE THRUS ARE SHOWN IN THE SAME LOCATION, THOSE DEVICES SHALL BE LOCATED WITHIN THE SAME ENCLOSURE, UON.              |
| 4.    | SIZE JUNCTION BOXES AS REQ'D PER CODE. TAPE AND TAG WIRES COORDINATE WITH EQUIPMENT AND PROVIDE FLEX CONDUIT AND/OR RECEPTACLES AS REQUIRED TO CONNECT EQUIPMENT. |
| 5.    | REFER TO COMMUNICATIONS DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.   |
| 6.    | COORDINATE REQUIREMENTS AND INSTALLATION OF FURNITURE FEED CONNECTIONS WITH FURNITURE MANUFACTURER.   |

| OWNERSHIP OF INSTRUMENTS OF SERVICE |  |
|-------------------------------------|--|
| 1.                                  | ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.   |
| 2.                                  | THE CLIENT ACKNOWLEDGES THE CONSULTANT'S CONSTRUCTION DOCUMENTS, INCLUDING ELECTRONIC FILES, AS INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE FINAL CONSTRUCTION DOCUMENTS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE CLIENT UPON COMPLETION OF THE SERVICES AND PAYMENT IN FULL OF ALL MONIES DUE TO THE CONSULTANT. THE CLIENT SHALL NOT REUSE OR MAKE ANY MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE CONSULTANT. THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS (COLLECTIVELY, "CONSULTANT") AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING FROM OR ALLEGEDLY ARISING FROM OR IN ANY WAY CONNECTED WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE CONSTRUCTION DOCUMENTS BY THE CLIENT OR ANY PERSON OR ENTITY THAT ACQUIRES OR OBTAINS THE CONSTRUCTION DOCUMENTS FROM OR THROUGH THE CLIENT WITHOUT THE WRITTEN AUTHORIZATION OF THE CONSULTANT. |

| CODES AND STANDARDS |   |
|---------------------|---|
| 1.                  | 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES #1 AND #2 (PART 2, TITLE 24, CCR).                   |
| 2.                  | 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).  |
| 3.                  | 2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR).                                    |
| 4.                  | 2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR).                                      |
| 5.                  | 2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR).  |
| 6.                  | 2022 CALIFORNIA FIRE CODE (CFC) (PART 9, TITLE 24, CCR).  |
| 7.                  | 2022 CALIFORNIA GREEN CODE (PART 11, TITLE 24, CCR).  |
| 8.                  | 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR).                               |
| 9.                  | 2022 NFPA 72 NATIONAL FIRE ALARM CODE.  |
| 10.                 | 2015 NFPA 720 STANDARDS FOR CARBON MONOXIDE DETECTION AND WARNING.                                |
| 11.                 | 2022 NFPA 13 STANDARDS FOR FIRE SPRINKLER SYSTEMS.  |
| 12.                 | ADA STANDARDS FOR ACCESSIBLE DESIGN: ADA ACCESSIBILITY GUIDELINES (ADAAG) 28, PART 36 APPENDIX A. |
| 13.                 | ADA STANDARDS FOR ACCESSIBLE DESIGN - CODE OF REGULATIONS (INCLUDING AMENDMENTS).                 |

|                                |                  |                 |              |                     |                     |                                  |          |                            |       |                     |          |
|--------------------------------|------------------|-----------------|--------------|---------------------|---------------------|----------------------------------|----------|----------------------------|-------|---------------------|----------|
| <div>PANELBOARD<br/>26LA</div> |                  |                 |              | VOLTAGE: 208/120 V  |                     |                                  |          | PHASE A: 11160 VA 93 A     |       |                     |          |
|                                |                  |                 |              | PHASE/WIRE: 3 PH 4W |                     |                                  |          | PHASE B: 10664 VA 88.9 A   |       |                     |          |
|                                |                  |                 |              | MAIN AMPS: 125 A    |                     |                                  |          | PHASE C: 10004 VA 83.4 A   |       |                     |          |
|                                |                  |                 |              | BUS AMPS: 125 A     |                     |                                  |          | CONNECTED: 31828 VA 88.4 A |       |                     |          |
|                                |                  |                 |              | AIC RATING 65000 A  |                     |                                  |          | DEMAND: 35780 VA 99.4 A    |       |                     |          |
| MOUNTING: SURFACE              |                  |                 |              |                     |                     |                                  |          |                            |       |                     |          |
| BUSSING: TIN-PLATED COPPER     |                  |                 |              |                     |                     |                                  |          |                            |       |                     |          |
| NOTES                          | LOAD DESCRIPTION | Φ               | VA           | BKR                 | CKT                 | CKT                              | BKR      | VA                         | Φ     | LOAD DESCRIPTION    | NOTES    |
|                                | (E) WH WOMEN'S   | A               | 3120         | WH                  | (E) 502             | 3                                |          | M 4800                     | A     |                     |          |
|                                |                  | B               | 3120         | WH                  | (E) 5               | 4                                | (E) 80/3 | M 4800                     | B     | (E) FAN COIL HEATER |          |
|                                | (E) WH MEN'S     | C               | 3120         | WH                  | (E) 5               | 6                                |          | M 4800                     | C     |                     |          |
|                                |                  | A               | 3120         | WH                  | (E) 502             | 7                                |          | A                          |       | (E) SPACE           |          |
|                                | (E) WH UNISEX    | B               | 1664         | WH                  | (E) 9               | 10                               | (E)20/1  | R 360                      | B     | (E) RECEPTACLES     |          |
|                                |                  | C               | 1664         | WH                  | (E) 11              | 12                               | (E)20/1  |                            | C     | (E) SPARE           |          |
|                                | (E) SPARE        | A               |              |                     | (E)30/2             | 14                               |          |                            | A     | (E) SPACE           |          |
|                                |                  | B               |              |                     | (E) 15/2            | 16                               | (E)20/1  |                            | B     | (E) SPARE           |          |
|                                | (E) SPARE        | C               |              |                     |                     | 17                               |          | G 120                      | C     | (E) TRANSFORMER     |          |
|                                | (E) SPACE        | A               |              |                     | 19                  | 18                               | (E) 120  |                            |       |                     |          |
| 1                              | SCOREBOARD       | B               | 800          | G                   | (E)20/1             | 21                               |          | M 120                      | B     |                     |          |
| 1                              | PEDESTAL REC     | C               | 180          | R                   | (E)20/1             | 23                               | 24       | 20/2                       | M 120 | C                   | (E) EF-1 |
|                                | (E) SPACE        | A               |              |                     | 25                  | 26                               |          | A                          |       | (E) SPACE           |          |
|                                | (E) SPACE        | B               |              |                     | 27                  | 28                               |          | B                          |       | (E) SPACE           |          |
|                                | (E) SPACE        | C               |              |                     | 29                  | 30                               |          | C                          |       | (E) SPACE           |          |
|                                | (E) SPACE        | A               |              |                     | 31                  | 32                               |          | A                          |       | (E) SPACE           |          |
|                                | (E) SPACE        | B               |              |                     | 33                  | 34                               |          | B                          |       | (E) SPACE           |          |
|                                | (E) SPACE        | C               |              |                     | 35                  | 36                               |          | C                          |       | (E) SPACE           |          |
|                                | (E) SPACE        | A               |              |                     | 37                  | 38                               |          | A                          |       | (E) SPACE           |          |
|                                |                  | B               |              |                     | 39                  | 40                               |          | B                          |       | (E) SPACE           |          |
|                                | (E) SPARE        | C               |              |                     | (E) 40/2            | 41                               |          | C                          |       | (E) SPACE           |          |
|                                |                  |                 |              |                     |                     | 42                               |          |                            |       |                     |          |
| GENERAL NOTES                  |                  |                 |              |                     |                     | SCHEDULE NOTES                   |          |                            |       |                     |          |
| a.                             |                  |                 |              |                     |                     | 1. CONNECT TO (E) SPARE BREAKER. |          |                            |       |                     |          |
| LOAD TYPE                      | LOAD DESCRIPTION | CONNECTED (kVA) | SUBFED (kVA) | TOTAL BY TYPE (kVA) | DEMAND FACTOR (kVA) | DEMAND BY TYPE (kVA)             |          |                            |       |                     |          |
| G                              | GENERAL          | 0.84            | 0.00         | 0.84                | 100%                | 0.84                             |          |                            |       |                     |          |
| L                              | LIGHTING         | 0.00            | 0.00         | 0.00                | 125%                | 0.00                             |          |                            |       |                     |          |
| R                              | RECEPTACLES      | 0.54            | 0.00         | 0.54                | 100%/50%            | 0.54                             |          |                            |       |                     |          |
| K                              | KITCHEN          | 0.00            | 0.00         | 0.00                | 100%                | 0.00                             |          |                            |       |                     |          |
| H                              | HEATING          | 0.00            | 0.00         | 0.00                | 100%                | 0.00                             |          |                            |       |                     |          |
| M                              | MOTORS           | 14.64           | 0.00         | 14.64               | 100%                | 14.64                            |          |                            |       |                     |          |
| LM                             | LARGEST MOTOR    | 0.00            | 0.00         | 0.00                | 125%                | 0.00                             |          |                            |       |                     |          |
| WH                             | WATER HEATER     | 15.81           | 0.00         | 15.81               | 125%                | 19.76                            |          |                            |       |                     |          |
| C                              | CONTINUOUS       | 0.00            | 0.00         | 0.00                | 125%                | 0.00                             |          |                            |       |                     |          |

| POWER DISTRIBUTION SYMBOLS (PLANS) |  |
|------------------------------------|--|
|                                    | PANELBOARD - FLUSH MOUNTED.                      |
|                                    | PANELBOARD - SURFACE MOUNTED.                    |
|                                    | DISTRIBUTION PANEL                               |
|                                    | MOTOR  |
|                                    | EQUIPMENT WITHOUT MOTOR                          |
|                                    | EQUIPMENT WITH MOTOR                             |
|                                    | UNFUSED DISCONNECT SWITCH                        |
|                                    | FUSED DISCONNECT SWITCH                          |
|                                    | MOTOR RATED SWITCH                               |
|                                    | GROUND ROD                                       |
|                                    | EQUIPMENT TAG - SEE EQUIPMENT SCHEDULE           |
|                                    | "CH" = EQUIPMENT TYPE<br>"2" = UNIQUE IDENTIFIER |

| RECEPTACLE AND POWER SYMBOLS |     |      |     |        |
|------------------------------|-----|------|-----|--------|
| POKE THRU                    | FLR | WALL | CLG | AT HGT |
|                              |     |      |     |        |
|                              |     |      |     |        |
|                              |     |      |     |        |
|                              |     |      |     |        |
|                              |     |      |     |        |
|                              |     |      |     |        |

| TYPICAL RECEPTACLE NOMENCLATURE |  |
|---------------------------------|--|
| R1-3                            | "R1" DENOTES PANEL NAME  |
| R1-3                            | "3" DENOTES SHEET NUMBER   |
| R1-3                            | "Y" DENOTES MOUNTING HEIGHT (IF APPLICABLE)  |
| NOTES                           |  |
| 1.                              | WALL MOUNTED DEVICES SHALL BE MOUNTED AT 18" AFF TO BOTTOM OF DEVICE, UON.   |
| 2.                              | WALL MOUNTED DEVICES SHOWN AT A DEFINED HEIGHT SHALL BE MOUNTED WITH THE BOTTOM AT 1" ABOVE COUNTER BACKSPLASH, UON.                                 |
| 2.1.                            | LOCATIONS WITH OPEN FORWARD APPROACH: +44" AFF MAX   |
| 2.2.                            | LOCATIONS WITH PARALLEL APPROACH: +46" AFF MAX   |
| 3.                              | WHERE POWER AND LOW VOLTAGE FLOOR BOXES OR POKE THRUS ARE SHOWN IN THE SAME LOCATION, THOSE DEVICES SHALL BE LOCATED WITHIN THE SAME ENCLOSURE, UON. |

| GENERAL SYMBOLS |  |
|-----------------|--|
|                 | PLAN OR DETAIL DESIGNATION<br>"3" DENOTES DETAIL OR PLAN NUMBER<br>"E2.1" DENOTES SHEET NUMBER<br>"--" DENOTES SAME SHEET.             |
|                 | SECTION OR ELEVATION DESIGNATION<br>"2" DENOTES SECTION OR ELEVATION NUMBER<br>"E1.0" DENOTES SHEET NUMBER<br>"--" DENOTES SAME SHEET. |
|                 | SHEET NOTE TAG - SEE APPLICABLE NOTE ON SAME SHEET   |
|                 | FEEDER SCHEDULE TAG, SEE APPLICABLE SCHEDULE   |
|                 | CONDUIT SCHEDULE TAG, SEE APPLICABLE SCHEDULE  |

| NEW VS. EXISTING |  |
|------------------|--|
|                  | (N) CONDUIT - CONCEALED IN WALLS OR CEILING. |
|                  | (E) CONDUIT - CONCEALED IN WALLS OR CEILING. |
|                  | (E) CONDUIT - TO BE REMOVED.                 |
|                  | (N) DEVICE OR EQUIP (EXAMPLE)                |
|                  | (E) DEVICE OR EQUIP (EXAMPLE)                |
|                  | (E) DEVICE OR EQUIP TO BE REMOVED (EXAMPLE)  |

| WIRING, CONDUIT, AND RACEWAY SYMBOLS |   |
|--------------------------------------|---|
|                                      | CONDUIT - CONCEALED IN WALLS OR CEILING.  |
|                                      | CONDUIT - EXPOSED.  |
|                                      | CONDUIT - UNDERGROUND / DIRECT BURIAL.  |
|                                      | CONDUIT - FLEX WITH CONNECTION.   |
|                                      | CONDUIT - STUB UP.  |
|                                      | CONDUIT - STUB DOWN.  |
|                                      | CONDUIT - EMERGENCY POWER SYSTEM.   |
|                                      | CONDUIT - CAPPED.   |
|                                      | CONDUIT - CONTINUATION.   |
|                                      | IN-GRADE PULL BOX. SINGLE LINE = NON-TRAFFIC RATED.<br>DOUBLE LINE = TRAFFIC RATED. "Y" = UNIQUE BOX IDENTIFIER. "X" = SYSTEM:<br>P = POWER<br>C = COMMUNICATIONS<br>F = FIRE ALARM<br>L = LIGHTING<br>E = EV CHARGER |

| GENERAL NOTES |   |
|---------------|---|
| A.            | THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. OBTAIN CONTRACT DOCUMENTS FOR ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON THE CONTRACT DOCUMENTS. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES ON PROJECT. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANEL LOCATIONS WITH ALL OTHER WORK TO AVOID CONFLICTS.   |
| B.            | COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED AND LABELED FOR THE APPLICATION.  |
| C.            | BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.  |
| D.            | OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.  |
| E.            | THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.   |
| F.            | MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.  |
| G.            | ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.   |
| H.            | ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS.   |
| I.            | ALL CONDUITS SHALL BE A MINIMUM 3/4" UNLESS OTHERWISE NOTED. POWER AND LIGHTING BRANCH CIRCUITS SHALL HAVE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN. ALL POWER AND FIRE ALARM WIRING SHALL BE RUN IN CONDUIT. THE USE OF ROMEX (NMC) OR BX (AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODES.   |
| J.            | ALL WIRE SIZING SHOWN ON THE CONSTRUCTION DOCUMENTS UTILIZES ASSUMED ROUTING AND CIRCUIT LENGTHS TO DETERMINE VOLTAGE DROP. CONTRACTOR SHALL VERIFY ALL CIRCUIT LENGTHS WITH ACTUAL FIELD CONDITIONS AND SHALL PROVIDE INCREASED WIRE AND CONDUIT SIZES AS REQUIRED TO LIMIT FEEDERS TO A MAXIMUM OF 2% VOLTAGE DROP AND BRANCH CIRCUITRY TO A MAXIMUM OF 3% VOLTAGE DROP.  |
| K.            | ALL POWER CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS WITH THE BARS AT THE BREAKERS IN THE PANEL SHALL NOT BE ALLOWED.   |
| L.            | CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER NEC/CEC REQUIREMENTS.  |
| M.            | THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.   |
| N.            | NOTE THAT BRANCH CIRCUIT WIRING IS NOT SHOWN. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO ALL OUTLETS/FIXTURES/DEVICES. PROVIDE ALL BRANCH CIRCUIT WIRING BASED ON CIRCUIT NUMBERS SHOWN TO COMPLETE THE WIRING SYSTEM.   |
| O.            | THE CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING THE EXISTING SECURITY, CATV, DATA, TELEPHONE, CLOCK, AND INTERCOM SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK.  |
| P.            | PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE CONSTRUCTION. LABEL EACH END OF THE CONDUIT WITH TYPED, PERMANENT LABEL, TO IDENTIFY WHERE THE OPPOSING END TERMINATES.  |
| Q.            | ALL EQUIPMENT VOLTAGES AND AMPACITY IS BASED ON THE INFORMATION PROVIDED BY OTHER DISCIPLINES AS PART OF THE CONTRACT DOCUMENTS. VERIFY ALL VOLTAGES AND AMPACITIES OF EQUIPMENT WITH GENERAL AND OTHER SUB-CONTRACTORS PRIOR TO ROUGH-IN AND PROVIDE PROVISIONS FOR CORRECT BREAKER, WIRING, AND CONDUIT SIZES BASED ON ACTUAL EQUIPMENT TO BE USED FOR THE PROJECT.   |
| R.            | THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN THE AREA OF UNDER GROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK. |
| S.            | CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.   |
| T.            | PLANS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE.  |
| U.            | SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE OPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE 110-26.  |
| V.            | ALL CONTROLS, SWITCHES, AND ELECTRICAL RECEPTACLE OUTLETS SHALL BE NOT MORE THAN +48" AFF TO TOP OF THE OUTLET BOX, NOR LESS THAN +15" AFF TO BOTTOM OF OUTLET BOX PER CBC 11B-308.1.   |
| W.            | CONTRACTOR SHALL PERFORM ALL TESTING AND COMPLETE ALL DOCUMENTATION FOR THE LIGHTING AND LIGHTING CONTROLS SYSTEM ACCEPTANCE. TESTING PER REQUIREMENTS OF CEC SECTION 130.4. SUBMIT ALL DOCUMENTATION TO THE AHJ.   |

| DRAWING INDEX |                     |
|---------------|---------------------|
| E000          | GENERAL INFORMATION |
| E100          | SITE PLAN           |
| E800          | DETAILS             |

AGENCY APPROVAL

DSAF

02-122861

19.6

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PROJECT OWNER & TITLE

SOLANO COMMUNITY COLLEGE

4000 Suisun Valley Rd, Fairfield  
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX

4000 Suisun Valley Rd, Fairfield,  
CA 94534

SHEET TITLE

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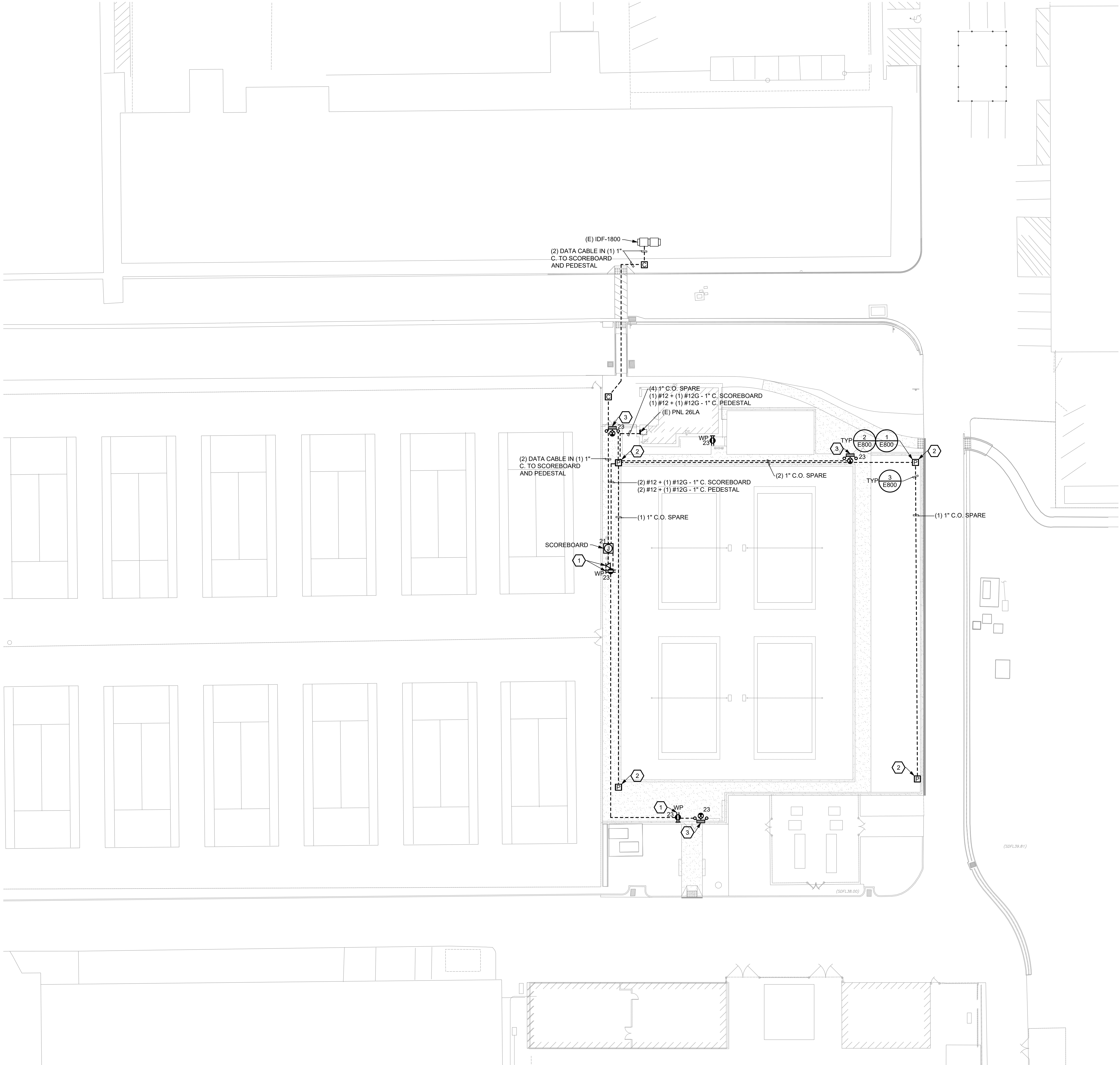
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1 SITE PLAN  
1" = 20'-0"



GENERAL NOTES

- A. PROVIDE SEPARATE PULL BOXES FOR POWER AND COMMUNICATIONS CONDUIT. LABEL IN GRADE POWER PULL BOXES AS "ELECTRICAL." LABEL IN GRADE COMMUNICATIONS PULL BOXES AS "SIGNAL."
- B. CONCEAL ALL CONDUIT, UNLESS OTHERWISE NOTED.
- C. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.
- D. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, LANDSCAPING, AND CIVIL EQUIPMENT WITH ARCHITECTURAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.
- E. CIRCUIT ALL DEVICES ON THIS SHEET TO (E) PANELBOARD 26LA, UNLESS OTHERWISE NOTED.
- F. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION, ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.
- G. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER CODE OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

4 SHEET NOTES

1. PROVIDE 30" HIGH 2-GANG UTILITY PEDESTAL WITH HINGED COVER AND INTERNAL DIVIDER FOR MOUNTING POWER AND DATA DEVICES, LEGRAND XPP2G30CD-BK OR APPROVED EQUAL.
2. PULL BOXES AND UNDERGROUND CONDUITS FOR FUTURE USE SHALL BE PART OF BID ALTERNATE.
3. PROVIDE UL WET LISTED EMERGENCY EXIT SIGN WITH INTEGRAL EMERGENCY LIGHTING AND BATTERY PACK WITH MINIMUM 90 MIN RUNTIME. EMERGLITE SURVIVE-ALL SVX COMBO SERIES WW-SVX24N-1-G-DA-4X2-LJ OR APPROVED EQUAL. MOUNT TO FENCE POST, SEE DETAIL 4/E800.

AGENCY APPROVAL DSA# 02-122861

19.6

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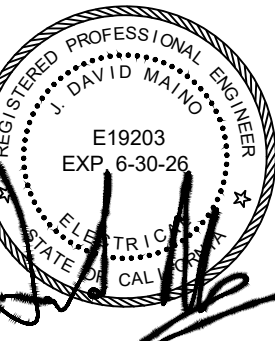
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**SITE PLAN  
OVERALL**

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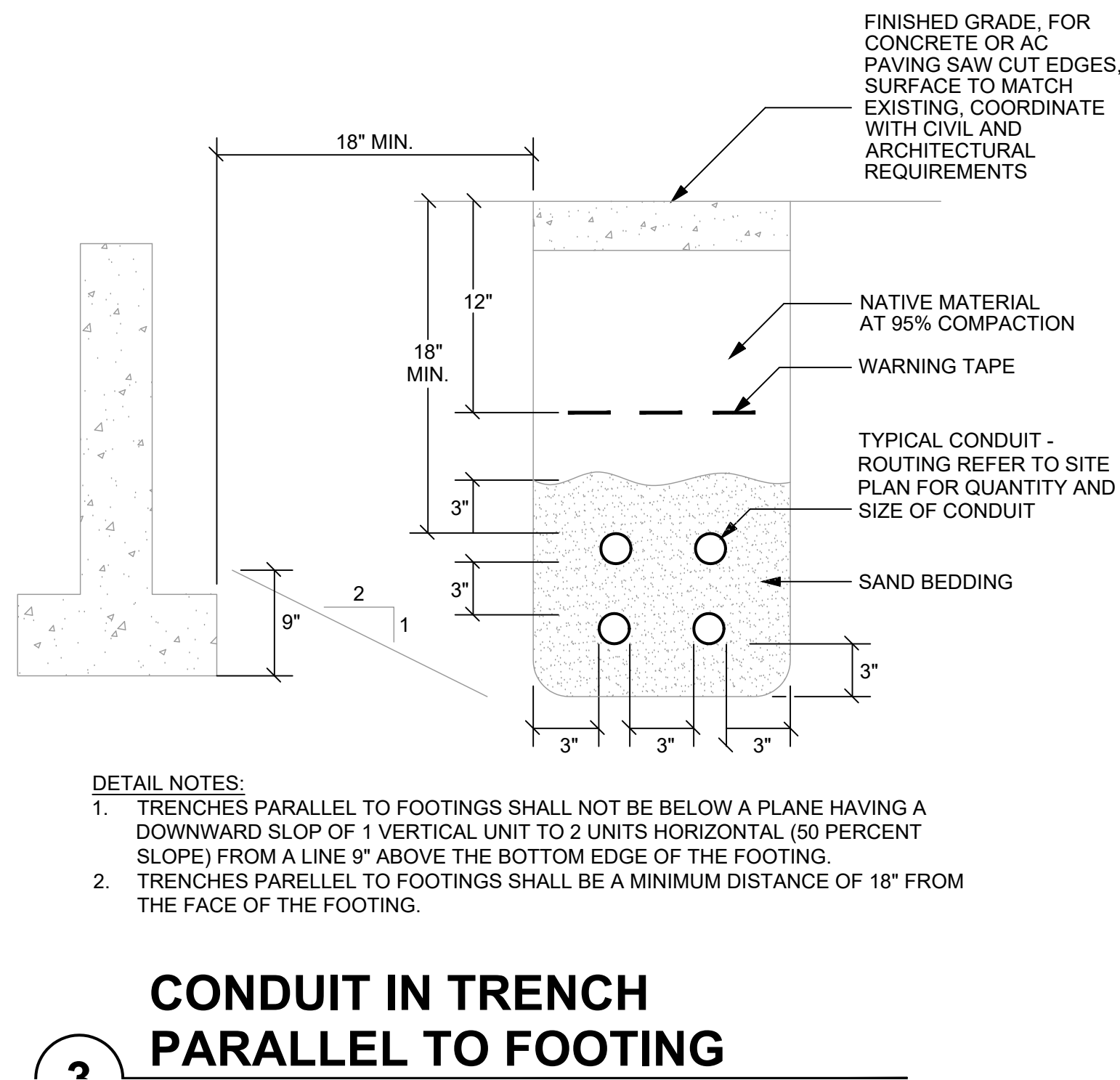
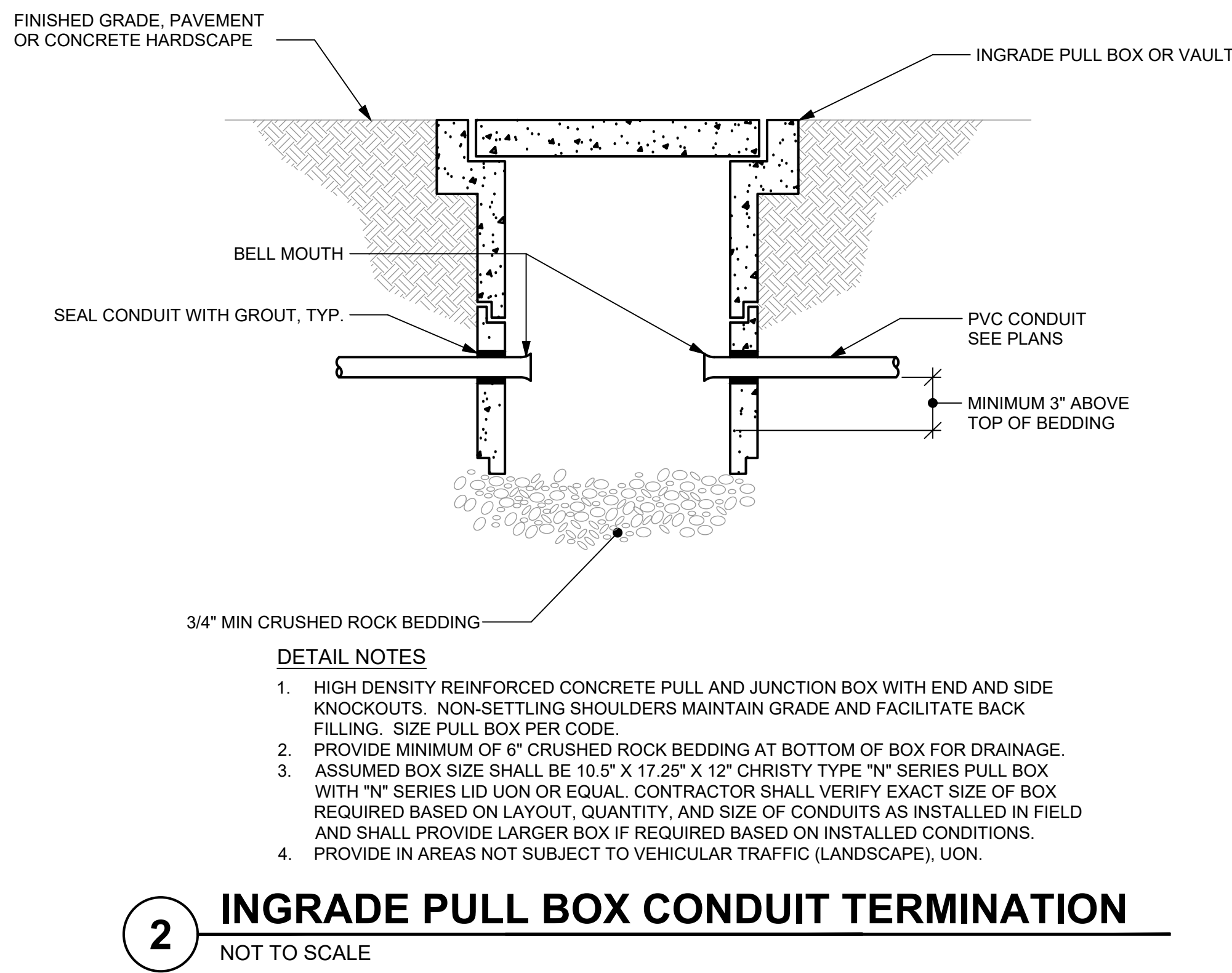
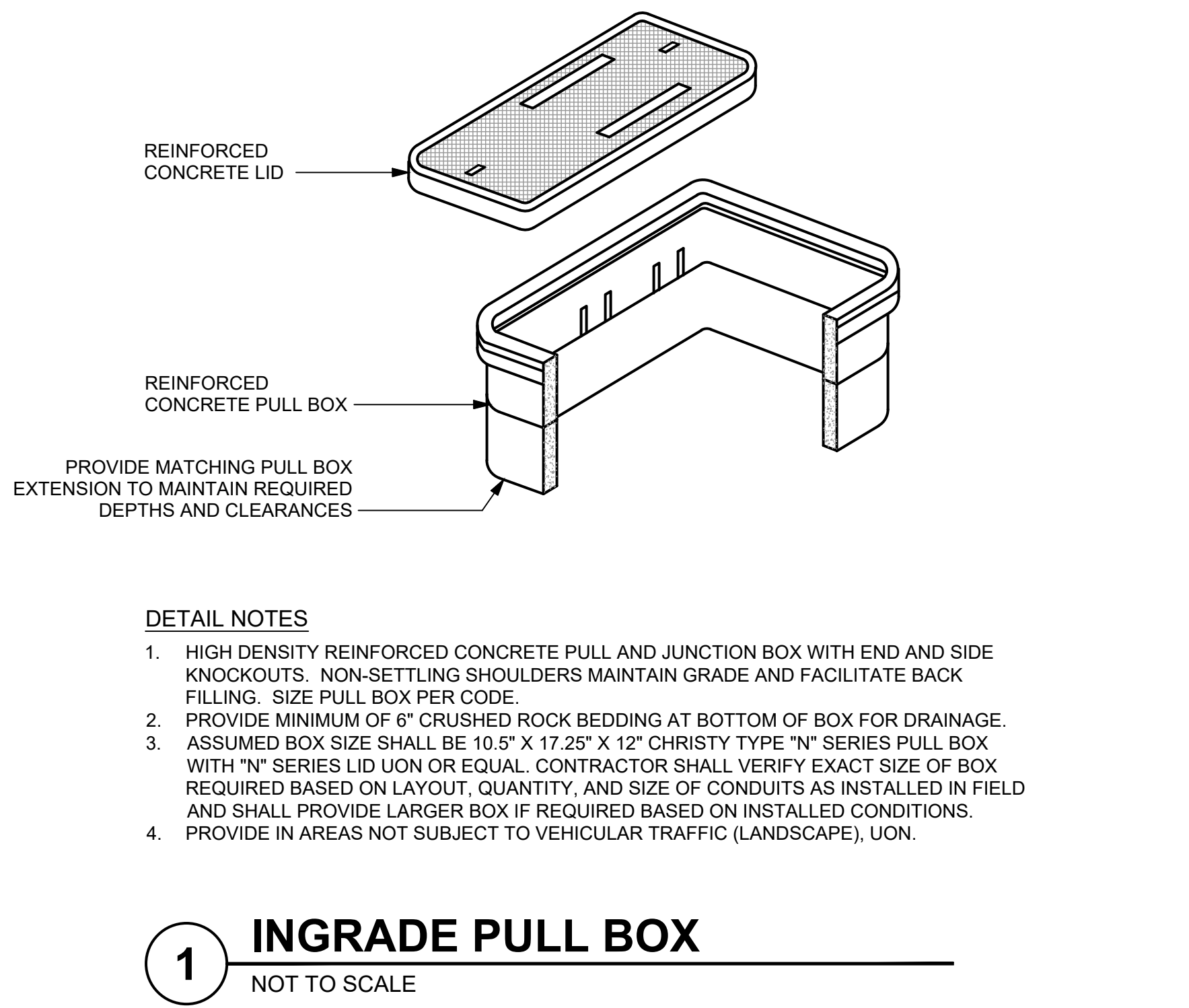
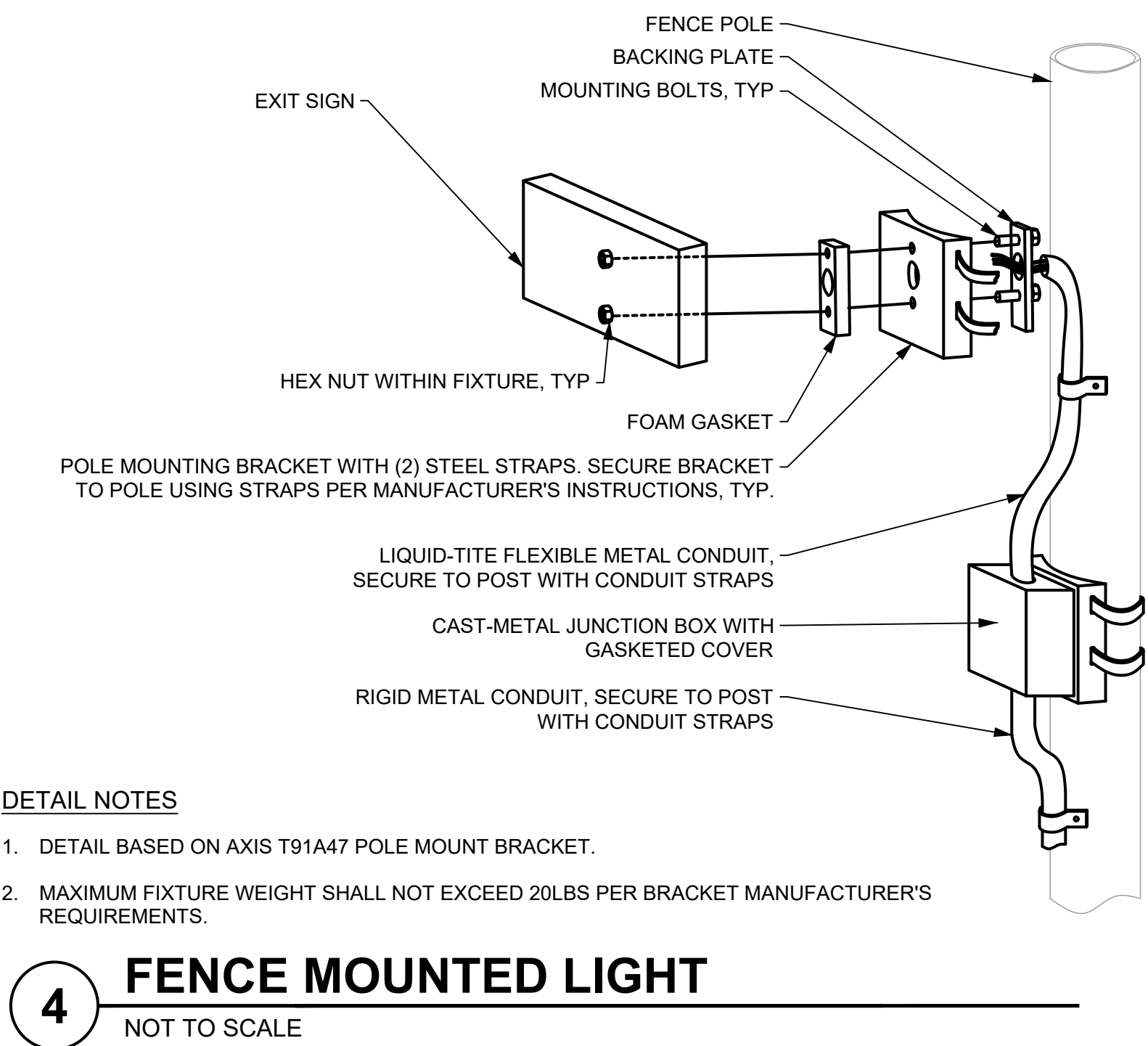
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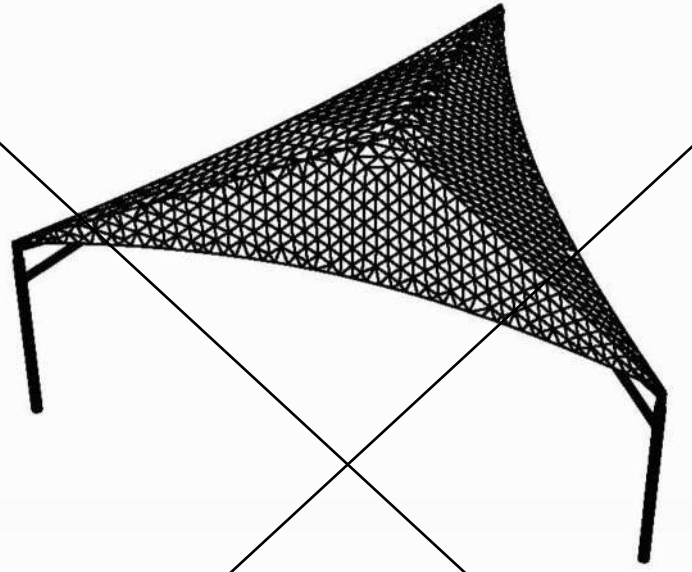
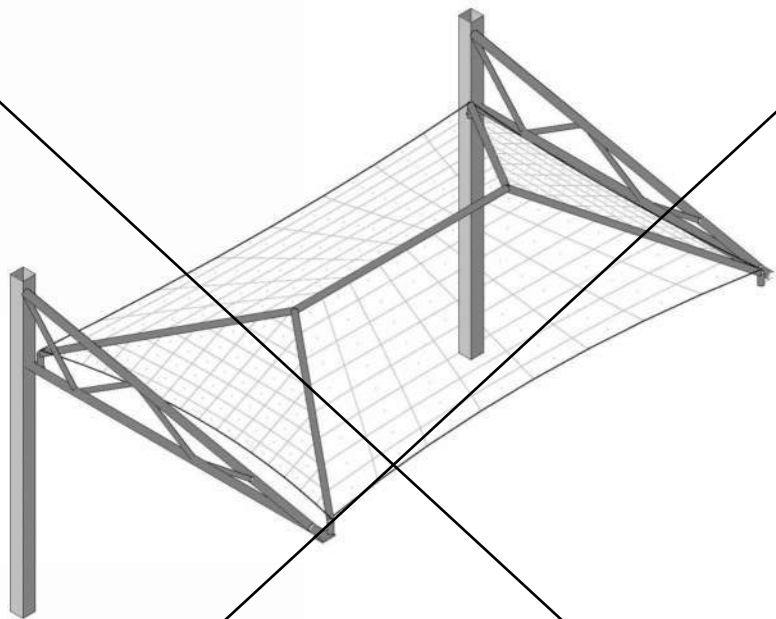
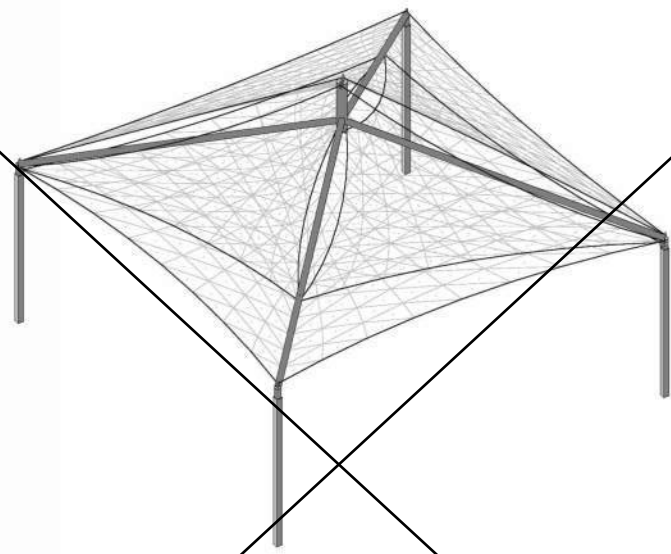
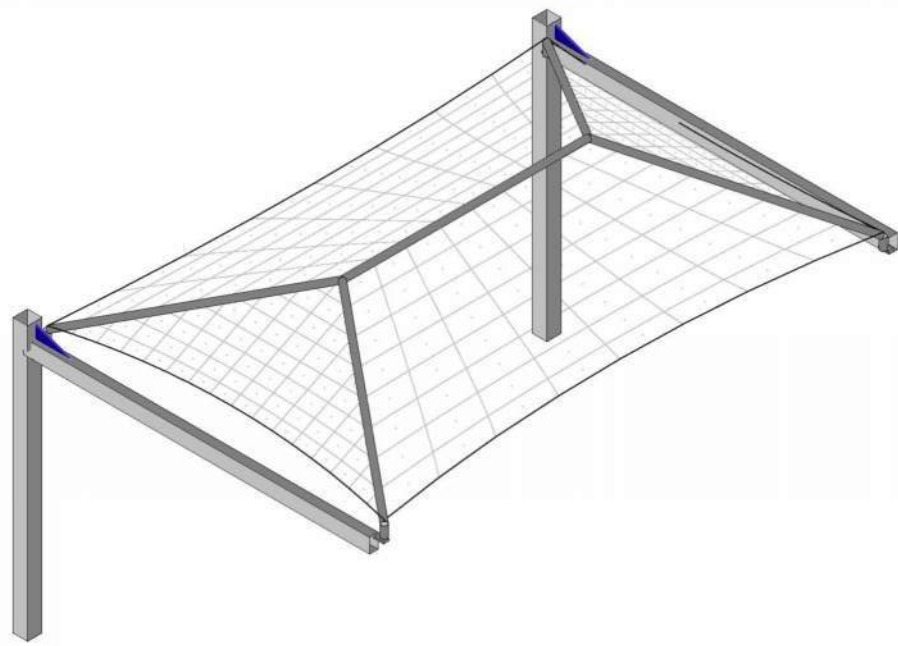
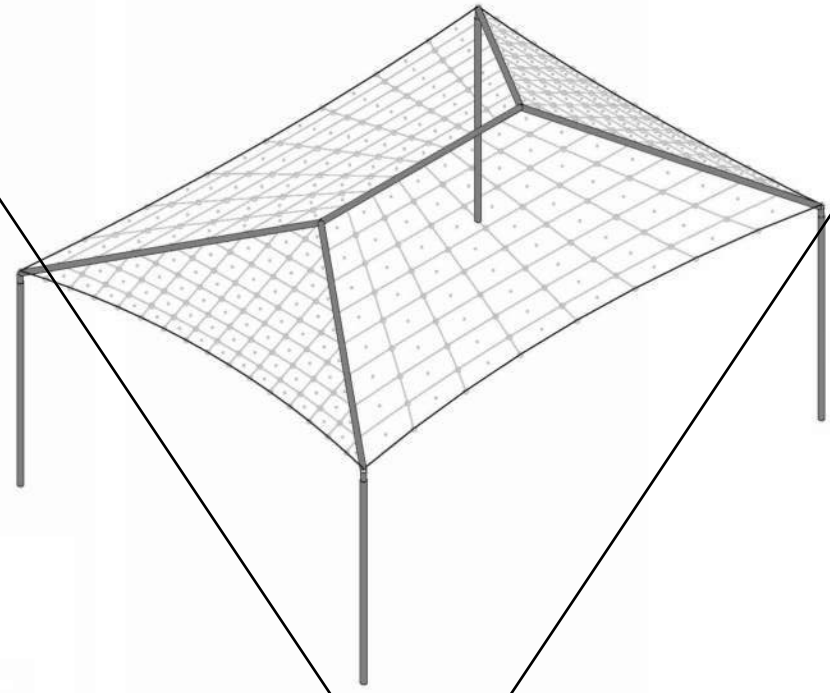

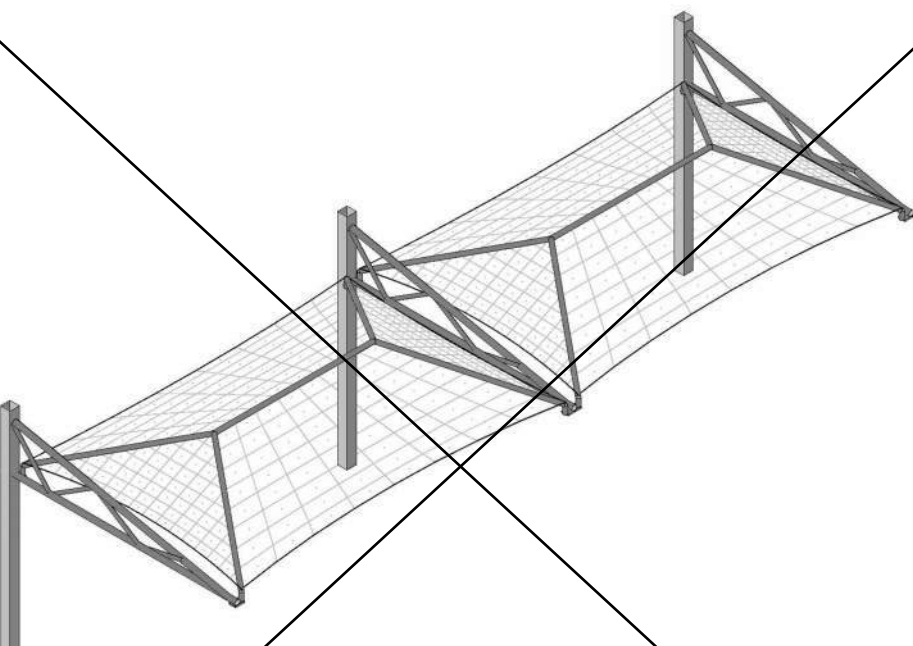
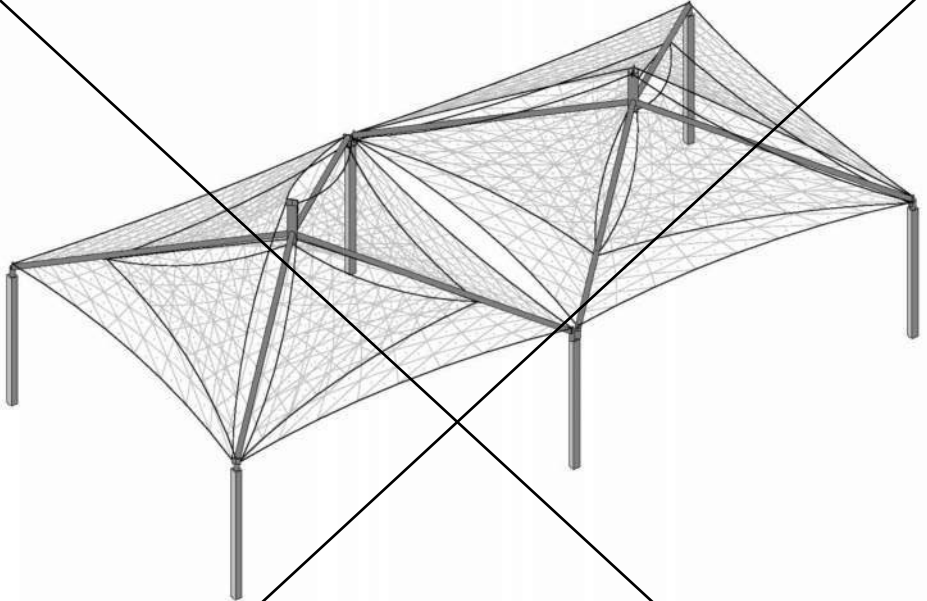
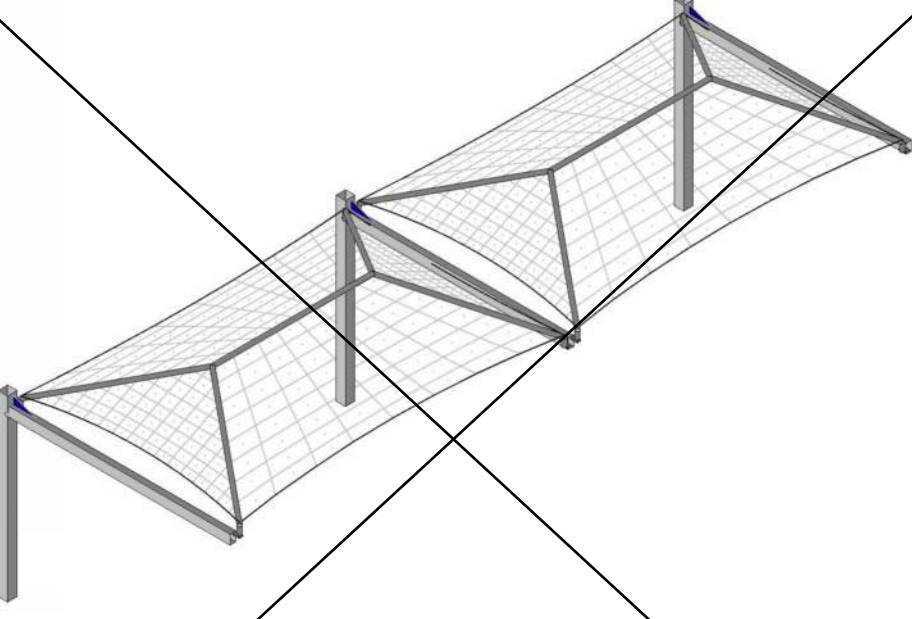
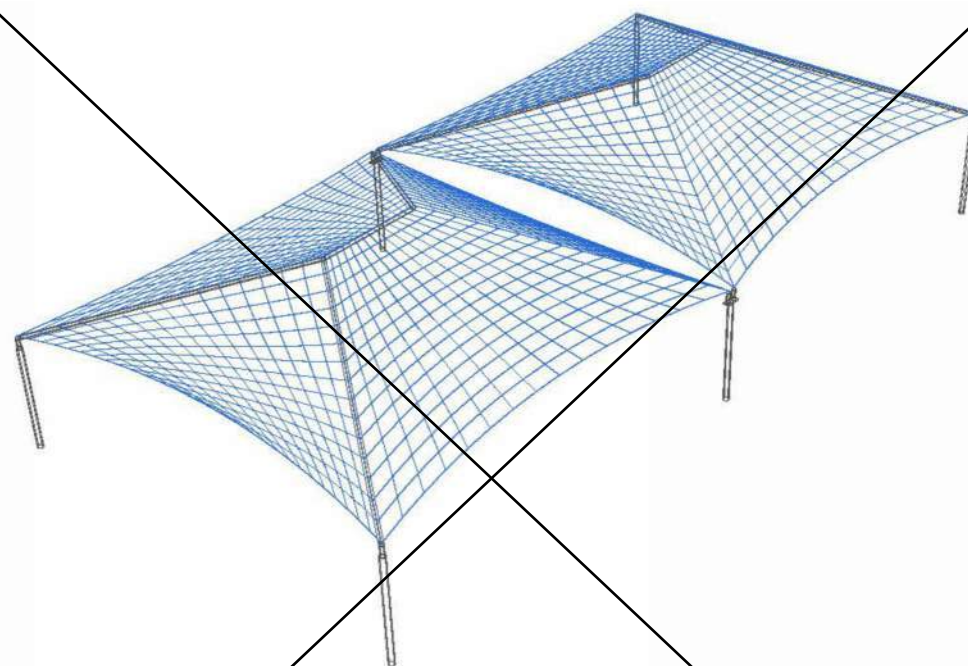
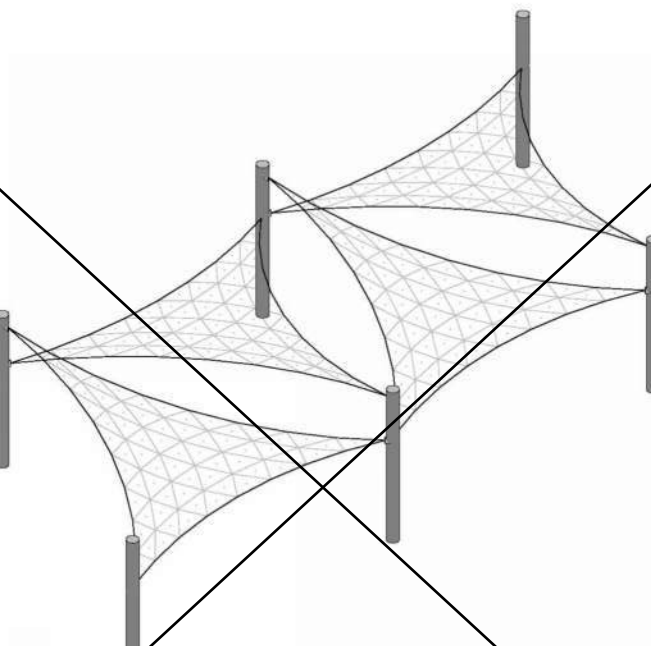
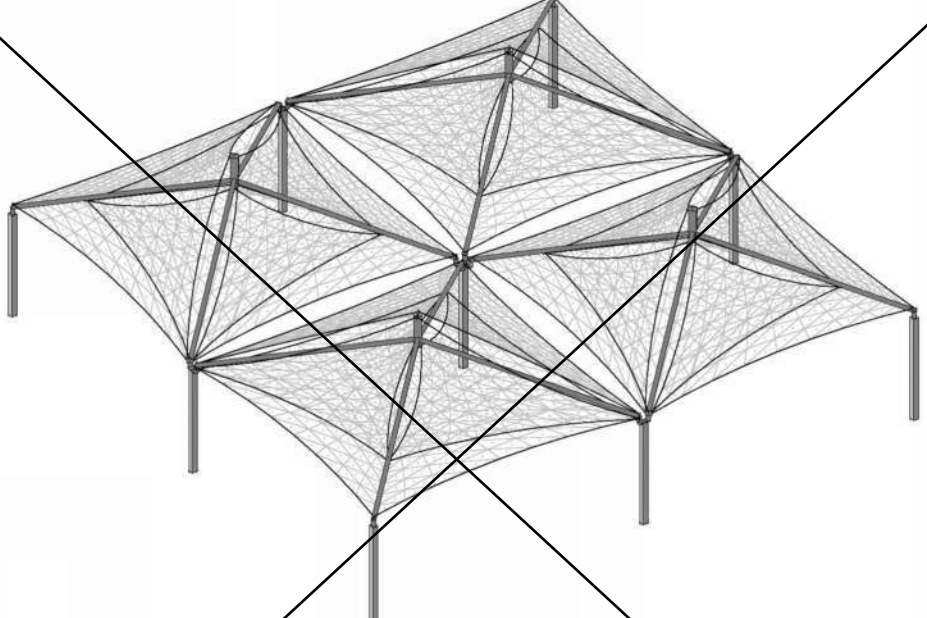
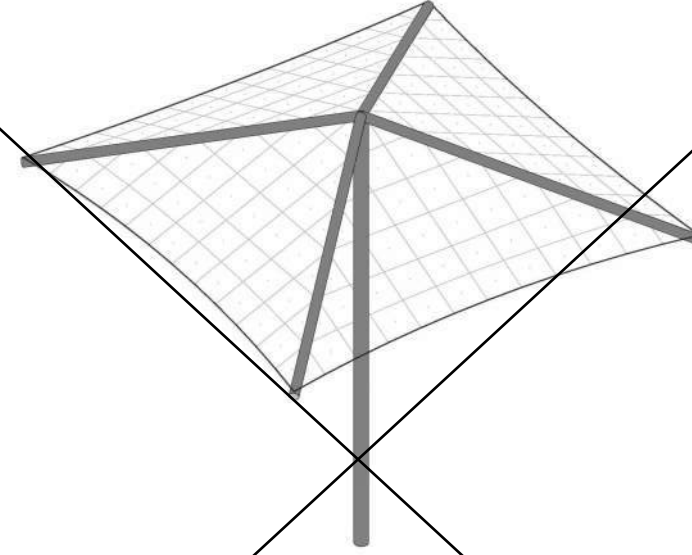
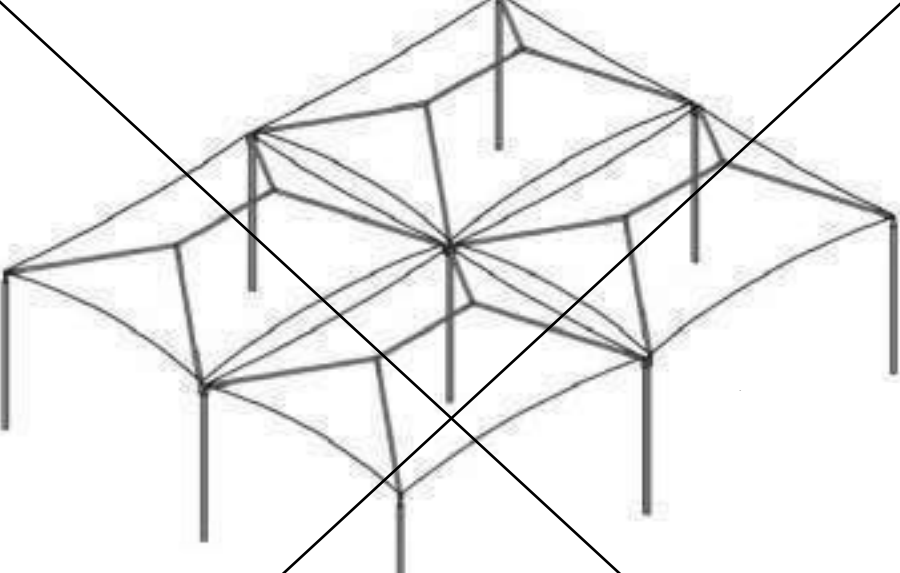
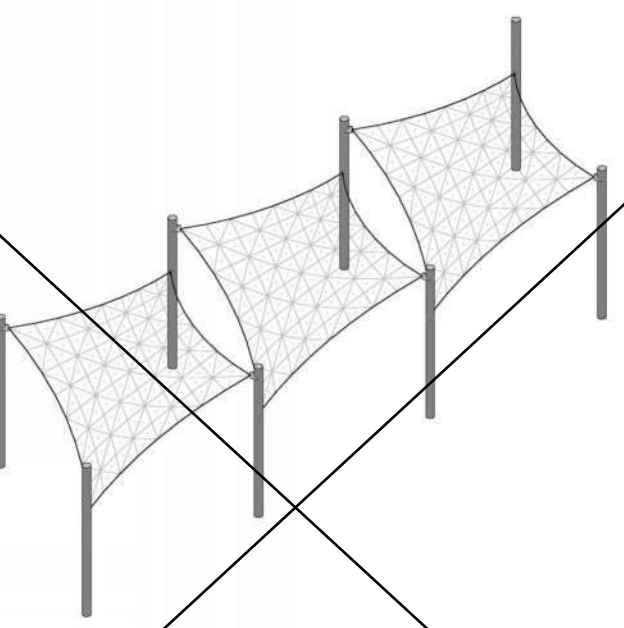
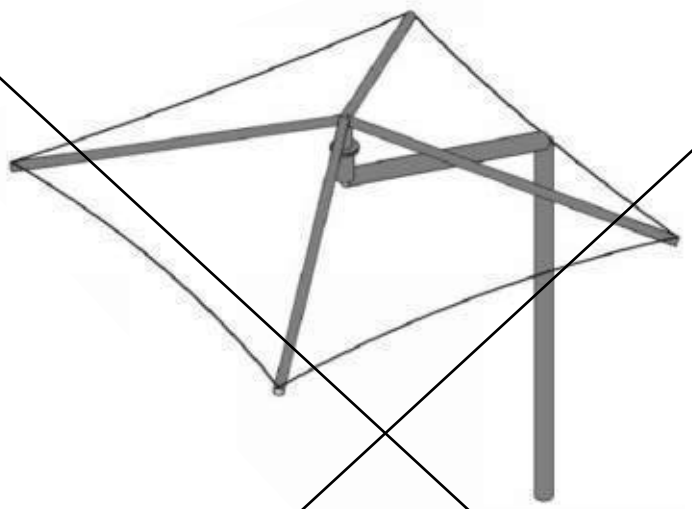
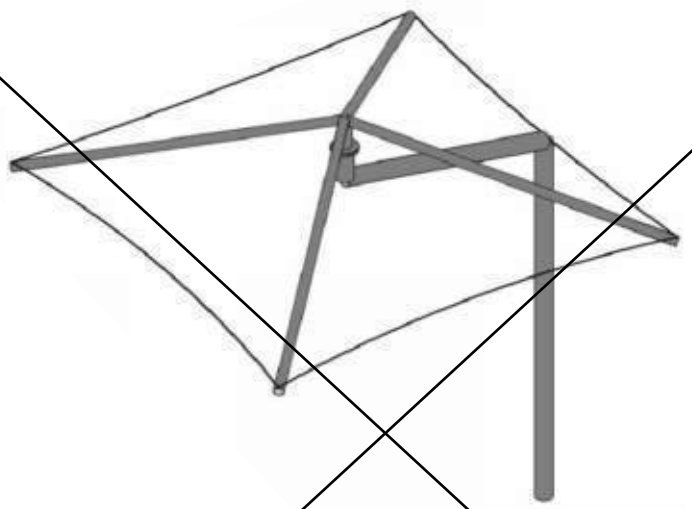
**E800**

DATE: AUGUST 13, 2024








|   |   |   |  |  |
|---|---|---|--|--|
|   |    |   |    |    |
| <div>STRUCTURE MODEL: DSA30125-22<br/>MAX. SIZE: 25' x 25' x 15'<br/>MAX. AREA: 271 SQ. FT.<br/>MAX. OCCUPANCY: 16 PERSONS</div> <div>SEE SHEET 26.1-1000</div> | <div>STRUCTURE MODEL: DSA2062030-22<br/>MAX. SIZE: 20' x 30' x 15'<br/>MAX. AREA: 600 SQ. FT.<br/>MAX. OCCUPANCY: 40 PERSONS</div> <div>SEE SHEET 21.1-1000</div>     | <div>STRUCTURE MODEL: DSA4073030-22<br/>MAX. SIZE: 30' x 30' x 15'<br/>MAX. AREA: 600 SQ. FT.<br/>MAX. OCCUPANCY: 40 PERSONS</div> <div>SEE SHEET 17.1-1000</div>     | <div><b>X</b> STRUCTURE MODEL: DSA2022030-22<br/>MAX. SIZE: 20' x 30' x 15'<br/>MAX. AREA: 600 SQ. FT.<br/>MAX. OCCUPANCY: 40 PERSONS</div> <div>SEE SHEET 11.1-1000</div> | <div>STRUCTURE MODEL: DSA4012030-22<br/>MAX. SIZE: 20' x 30' x 15'<br/>MAX. AREA: 600 SQ. FT.<br/>MAX. OCCUPANCY: 40 PERSONS</div> <div>SEE SHEET 1.1-1000</div> |
| FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0   | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0   | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0   | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0  | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0  |
| TRIANGLE  | TRI-TRUSS HIP SINGLE WIDE   | MARINER PEAK  | FULL CANTILEVER HIP SINGLE   |  |
|    |   |    |   |    |
| <div>STRUCTURE MODEL: DSA60340-22<br/>MAX. SIZE: 640' x 15'<br/>MAX. AREA: 1,040 SQ. FT.<br/>MAX. OCCUPANCY: 69 PERSONS</div> <div>SEE SHEET 28.1-1000</div>    | <div>STRUCTURE MODEL: DSA60360-22<br/>MAX. SIZE: 680' x 15'<br/>MAX. AREA: 2,358 SQ. FT.<br/>MAX. OCCUPANCY: 156 PERSONS</div> <div>SEE SHEET 29.1-1000</div>         | <div>STRUCTURE MODEL: DSA4073060-22<br/>MAX. SIZE: 30' x 150' x 15'<br/>MAX. AREA: 3,890 SQ. FT.<br/>MAX. OCCUPANCY: 266 PERSONS</div> <div>SEE SHEET 19.1-1000</div> | <div>STRUCTURE MODEL: DSA4022060-22<br/>MAX. SIZE: 20' x 200' x 15'<br/>MAX. AREA: 4,000 SQ. FT.<br/>MAX. OCCUPANCY: 266 PERSONS</div> <div>SEE SHEET 12.1-1000</div>      | <div>STRUCTURE MODEL: DSA401J-22<br/>MAX. SIZE: VARIES<br/>MAX. AREA: VARIES<br/>MAX. OCCUPANCY: VARIES</div> <div>SEE SHEET 9.1-1000</div>                      |
| FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0   | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0   | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0   | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0  | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0  |
| HEXAGON   | TRI-TRUSS HIP JOINED  | MARINER PEAK JOINED   | FULL CANTILEVER HIP JOINED   | JOINED HIP   |
|   |   |    |   |   |
|   | <div>STRUCTURE MODEL: DSA30730-22<br/>MAX. SIZE: 30' x 133' x 15'<br/>MAX. AREA: 4,000 SQ. FT.<br/>MAX. OCCUPANCY: 266 PERSONS</div> <div>SEE SHEET 23.1-1000</div>   | <div>STRUCTURE MODEL: DSA40706060-22<br/>MAX. SIZE: 60' x 60' x 10'<br/>MAX. AREA: 3,600 SQ. FT.<br/>MAX. OCCUPANCY: 240 PERSONS</div> <div>SEE SHEET 20.1-1000</div> | <div>STRUCTURE MODEL: DSA1031414-22<br/>MAX. SIZE: 14' x 14' x 12'<br/>MAX. AREA: 196 SQ. FT.<br/>MAX. OCCUPANCY: 13 PERSONS</div> <div>SEE SHEET 13.1-1000</div>          | <div>STRUCTURE MODEL: DSA401Q-22<br/>MAX. SIZE: VARIES<br/>MAX. AREA: VARIES<br/>MAX. OCCUPANCY: VARIES</div> <div>SEE SHEET 10.1-1000</div>                     |
|   | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0   | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0   | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0  | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0  |
| NOT USED  | TENSIONS SAILS THREE-POINT  | MARINER PEAK QUAD   | SINGLE POST PYRAMID  | QUAD HIP   |
|   |   |   |   |   |
|   | <div>STRUCTURE MODEL: DSA4182020-22<br/>MAX. SIZE: 20' x 200' x 15'<br/>MAX. AREA: 4,000 SQ. FT.<br/>MAX. OCCUPANCY: 266 PERSONS</div> <div>SEE SHEET 24.1-1000</div> |   | <div>STRUCTURE MODEL: DSA1241414-22<br/>MAX. SIZE: 14' x 14' x 12'<br/>MAX. AREA: 196 SQ. FT.<br/>MAX. OCCUPANCY: 13 PERSONS</div> <div>SEE SHEET 15.1-1000</div>          | <div>STRUCTURE MODEL: DSA401Q-22<br/>MAX. SIZE: VARIES<br/>MAX. AREA: VARIES<br/>MAX. OCCUPANCY: VARIES</div> <div>SEE SHEET 10.1-1000</div>                     |
|   | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0   |   | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0  | FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0  |
| NOT USED  | TENSIONS SAILS FOUR-POINT   | NOT USED  | SINGLE POST PYRAMID CANTILEVER   |  |

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN



CORPORATE HEADQUARTERS  
2580 ESTERS BLVD. SUITE 100  
DFW AIRPORT, TX, 75261  
800-966-5005

CERTIFICATIONS:  
IAS CERTIFICATION No: FA-428  
CLARK COUNTY MANUFACTURER  
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:  
Solano Community College District

PROJECT NAME:  
Solano Community College  
Sand Volleyball Complex

LOCATION:  
4000 Suisun Valley Road  
Fairfield, CA 94534

MODEL NUMBER:

APPROVED  
DIV. OF THE STATE ARCHITECT  
APP: 04-121917 PC  
REVIEWED FOR  
SS ☒ PCS ☒ ACS ☒ CG ☐  
DATE: 10/30/2023

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:  
D

PRE-CHECK (PC) DOCUMENT  
Code : 2022 CBC  
A separate project application  
for construction is required.

Eng. By : DWH2/14/23

Design By : DWH2/14/23

Approved By : DWH2/14/23

DRAWING DESCRIPTION:

DWG. UNIT SELECTION

SHEET T-2.0

REV.



DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for construction or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, and bridge of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**\*\*NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE

2. PERFORMED BY

Continuous – Indicates that a continuous special inspection is required.

Periodic – Indicates that a periodic special inspection is required.

Test – Indicates that a test is required.

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 1 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Application Number:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

C1. CAST-IN-PLACE CONCRETE

| Test or Special Inspection  | Type  | Performed By | Code References and Notes  |
|---|---|--------------|--|
| <input checked="" type="checkbox"/> a. Verify use of required design mix.   | Periodic  | SI           | Table 1705A.3 Item 5, 190A.1.  |
| <input checked="" type="checkbox"/> b. Identify, sample, and test reinforcing steel.  | Test  | LOR          | 190A.2, ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)   |
| <input checked="" type="checkbox"/> c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | Test  | LOR          | Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.  |
| <input checked="" type="checkbox"/> d. Test concrete (f').  | Test  | LOR          | 1905A.1.17; ACI 318-19 Section 26.12.  |
| <input checked="" type="checkbox"/> e. Batch plant inspection: Eliminated   | See Notes   | SI           | Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to Periodic; subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.) |
| <input type="checkbox"/> f. Welding of reinforcing steel.   | Provide special inspection per STEEL, Category S/A(d) & (e) and/or S/A5(g) & (h) below. |              |  |

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

| Test or Special Inspection   | Type     | Performed By | Code References and Notes             |
|--|----------|--------------|---------------------------------------|
| <input type="checkbox"/> a. Sample and test prestressing tendons and anchorages. | Test     | LOR          | 1705A.3.4, 190A.3                     |
| <input type="checkbox"/> b. Inspect placement of prestressing tendons.           | Periodic | SI           | 1705A.3.4, Table 1705A.3 Items 1 & 9. |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 13 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

Application Number:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

S/A3. WELDING:

| Test or Special Inspection   | Type     | Performed By | Code References and Notes  |
|--|----------|--------------|--|
| <input checked="" type="checkbox"/> a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS. | Periodic | SI           | 1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed and the WPS. |
| <input checked="" type="checkbox"/> b. Verify weld filler material manufacturer's certificate of compliance.   | Periodic | SI           | DSA IR 17-3.   |
| <input checked="" type="checkbox"/> c. Verify WPS, welder qualifications and equipment.  | Periodic | SI           | DSA IR 17-3.   |

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):

| Test or Special Inspection  | Type       | Performed By | Code References and Notes   |
|---|------------|--------------|---|
| <input checked="" type="checkbox"/> a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds < 5/16" plug and slot welds. | Continuous | SI           | Table 1705A.2.1 Items 5a.1, 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.                |
| <input checked="" type="checkbox"/> b. Inspect single-pass fillet welds < 5/16" floor and roof deck welds.                                  | Periodic   | SI           | 1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| <input checked="" type="checkbox"/> c. Inspect welding of stairs and railing systems.   | Periodic   | SI           | 1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.                   |
| <input checked="" type="checkbox"/> d. Verification of reinforcing steel weldability other than ASTM A706.                                  | Periodic   | SI           | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.               |
| <input checked="" type="checkbox"/> e. Inspect welding of reinforcing steel.  | Continuous | SI           | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.               |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 9 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

Application Number:  
04-121917  
DSA File Number:

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Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

| Test or Special Inspection   | Type     | Performed By | Code References and Notes  |
|--|----------|--------------|--|
| <input type="checkbox"/> c. Storage rack anchorage installation.   | Periodic | SI           | ANSI/MH16.1, Section 7.3.2; Table 1705A.3.1  |
| <input type="checkbox"/> d. Completed storage rack system to indicate compliance with the approved construction documents. | Periodic | SI*          | Table 1705A.13.7. * May be performed by the project inspector when specifically approved by DSA. |

S/A11. Other Steel

| Test or Special Inspection  | Type | Performed By | Code References and Notes |
|-----------------------------|------|--------------|---------------------------|
| <input type="checkbox"/> a. |      |              |                           |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 13 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Application Number:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

| SI, GENERAL:                | Test or Special Inspection   | Type      | Performed By | Code References and Notes   |
|-----------------------------|--|-----------|--------------|---|
| <input type="checkbox"/> 1. | <input checked="" type="checkbox"/> a. Verify that:<br>- Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.<br>- Foundation excavations are extended to proper depth and have reached proper material.<br>- Materials below footings are adequate to achieve the design bearing capacity. | See Notes | PI           | Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report. |

S2. SOIL COMPACTION AND FILL:

| Test or Special Inspection   | Type       | Performed By | Code References and Notes   |
|--|------------|--------------|---|
| <input checked="" type="checkbox"/> a. Verify use of proper materials, densities and impact lift thicknesses, placement and compaction during placement of fill. | Continuous | LOR*         | * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations. |
| <input checked="" type="checkbox"/> b. Compaction testing  | Test       | LOR*         |   |

S3. DRIVEN DEEP FOUNDATIONS (PILES):

| Test or Special Inspection  | Type       | Performed By | Code References and Notes  |
|---|------------|--------------|--|
| <input type="checkbox"/> a. Verify pile materials, sizes and lengths comply with the requirements.            | Continuous | GE*          | * By geotechnical engineer or his or her qualified representative. |
| <input type="checkbox"/> b. Determine capacities of test piles and conduct additional load tests as required. | Test       | LOR*         | * Under the supervision of the geotechnical engineer.              |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 6 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Application Number:  
04-121917  
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School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

Test or Special Inspection

| Test or Special Inspection   | Type       | Performed By | Code References and Notes   |
|--|------------|--------------|---|
| <input type="checkbox"/> c. Verify that concrete strength prior to stressing of post-tensioning tendons.                               | Periodic   | SI           | Table 1705A.3 Item 13. Special Inspector to verify specified concrete strength test prior to stressing. |
| <input type="checkbox"/> d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons. | Continuous | SI           | 1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13   |

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

| Test or Special Inspection  | Type       | Performed By | Code References and Notes  |
|---|------------|--------------|--|
| <input type="checkbox"/> a. Inspect fabrication of precast concrete members.  | Continuous | SI           | ACI 318-19 Section 26.13.  |
| <input type="checkbox"/> b. Inspect erection of precast concrete members.   | Periodic   | SI*          | Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA. |
| <input type="checkbox"/> c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for:<br>1. Installation of the embedded parts.<br>2. Completion of the continuity of reinforcement across joints.<br>3. Completion of connections in the field. | Continuous | SI           | Table 1705A.3; ACI 318-19 Section 26.13.3; ACI 550.5                               |
| <input type="checkbox"/> d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.  | Periodic   | SI           | Table 1705A.3; ACI 318-19 Section 26.13.3; ACI 550.5                               |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 6 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

Application Number:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

Test or Special Inspection

| Test or Special Inspection   | Type       | Performed By | Code References and Notes   |
|--|------------|--------------|---|
| <div>S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):</div> <div><input type="checkbox"/> a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds &lt; 5/16" plug and slot welds.</div> | Continuous | SI           | Table 1705A.2.1 Items 5a.4, 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.  |
| <input type="checkbox"/> b. Inspect single-pass fillet welds < 5/16".  | Periodic   | SI           | Table 1705A.2.1 Item 5a.5; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.  |
| <input type="checkbox"/> c. Inspect end-welded slots (ASTM A-108) installation (including bend test).  | Periodic   | SI           | 2219A.2.2; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.  |
| <input type="checkbox"/> d. Inspect floor and roof deck welds.   | Periodic   | SI           | 1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.   |
| <input type="checkbox"/> e. Inspect welding of structural cold-formed steel.   | Periodic   | SI*          | 1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA. |
| <input type="checkbox"/> f. Inspect welding of stairs and railing systems.   | Periodic   | SI*          | 1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.                        |
| <input type="checkbox"/> g. Verification of reinforcing steel weldability.   | Periodic   | SI           | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.   |
| <input type="checkbox"/> h. Inspect welding of reinforcing steel.  | Continuous | SI           | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.   |

GENERAL DSA-103 NOTES:

- THE SAMPLE DSA-103 FORM PROVIDED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY TO ASSIST IN THE COMPLETION OF SPECIFIC DSA-103 FORMS FOR FUTURE PROJECTS.
- A CURRENT DSA-103 FORM IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS P.C. DOCUMENT IS BEING INCORPORATED INTO AND ALL SAMPLE DSA-103 SHEETS ARE TO BE CROSSED OUT ON THIS SHEET

ADDITIONAL TESTING AND INSPECTION NOTES:

- THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE EMPLOYED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-542, PART 1, TITLE 24, CCR.
- THE SITE PROJECT INSPECTOR SHALL BE CLASS 2.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.
- THE COSTS OF THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.
- COPIES OF THE VERIFIED REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR, AND THE PROJECT INSPECTOR.
- THE IN-PLANT INSPECTOR SHALL BE A WELDING SPECIAL INSPECTOR FOR MATERIAL VERIFICATION AND WELDING.
- PER 2022 CBC, SECTION 1705A.3.3, BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET:
  - A LICENSED WEGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
  - BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD. SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCING AGENCY.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Application Number:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

Test or Special Inspection

| Test or Special Inspection  | Type  | Performed By | Code References and Notes  |
|---|---|--------------|--|
| <input type="checkbox"/> c. Inspect driving operations and maintain complete and accurate records for each pile.  | Continuous  | GE*          | * By geotechnical engineer or his or her qualified representative. |
| <input type="checkbox"/> d. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and elevations and record any pile damage. | Continuous  | GE*          | * By geotechnical engineer or his or her qualified representative. |
| <input type="checkbox"/> e. Steel piles.  | Provide tests and inspections per STEEL section below.    |              |  |
| <input type="checkbox"/> f. Concrete piles and concrete filled piles.   | Provide tests and inspections per CONCRETE section below. |              |  |
| <input type="checkbox"/> g. For concrete piles, perform additional inspections as determined by the registered design professional in responsible charge.   | -   | -            | * As defined on drawings or specifications.                        |

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):

| Test or Special Inspection   | Type  | Performed By | Code References and Note  |
|--|---|--------------|---|
| <input checked="" type="checkbox"/> a. Inspect drilling operations and maintain complete and accurate records for each pier.     | Continuous  | PI           | Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations. |
| <input checked="" type="checkbox"/> b. Verify pier locations, diameters, plumbness and lengths Record concrete or grout volumes. | Continuous  | PI           | Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations. |
| <input checked="" type="checkbox"/> c. Concrete piers.   | Provide tests and inspections per CONCRETE section below. |              |   |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 3 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Application Number:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

| Test or Special Inspection   | Type       | Performed By | Code References and Notes  |
|--|------------|--------------|--|
| <input type="checkbox"/> a. Inspect shotcrete placement for proper application techniques. | Continuous | SI           | 1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506R-16. |
| <input type="checkbox"/> b. Sample and test shotcrete (f').                                | Test       | LOR          | 1908A.2, 1705A.3.4   |

C5. POST-INSTALLED ANCHORS:

| Test or Special Inspection  | Type      | Performed By | Code References and Notes  |
|---|-----------|--------------|--|
| <input type="checkbox"/> a. Inspect installation of post-installed anchors. | See Notes | SI*          | 1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA. |
| <input type="checkbox"/> b. Test post-installed anchors.                    | Test      | LOR          | 1910A.5. (See Appendix (end of this form) for exemptions.)   |

C6. OTHER CONCRETE:

| Test or Special Inspection  | Type | Performed By | Code References and Notes |
|-----------------------------|------|--------------|---------------------------|
| <input type="checkbox"/> a. |      |              |                           |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 7 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

Application Number:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

Test or Special Inspection

| Test or Special Inspection  | Type | Performed By | Code References and Notes  |
|---|------|--------------|--|
| <div>S/A6. NONDESTRUCTIVE TESTING:</div> <div><input type="checkbox"/> a. Ultrasonic.</div> | Test | LOR          | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 NS.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| <input type="checkbox"/> b. Magnetic Particle   | Test | LOR          | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 NS.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| <input type="checkbox"/> c.   | Test | LOR          |  |

S/A7. STEEL JOISTS AND TRUSSES:

| Test or Special Inspection  | Type       | Performed By | Code References and Notes   |
|---|------------|--------------|---|
| <input type="checkbox"/> a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joint. | Continuous | SI           | 1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only, 1705A.2.4; AWS D1.3 for cold-formed steel trusses. |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 11 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Application Number:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

Test or Special Inspection

| Test or Special Inspection   | Type  | Performed By | Code References and Notes  |
|--|---|--------------|--|
| <div>S5. RETAINING WALLS:</div> <div><input type="checkbox"/> a. Placement, compaction and inspection of backfill.</div> | Continuous  | GE*          | * By geotechnical engineer or his or her qualified representative. (See Section S2 above). |
| <input type="checkbox"/> b. Placement of soil reinforcement and/or drainage devices.                                     | Continuous  | GE*          | * By geotechnical engineer or his or her qualified representative.                         |
| <input type="checkbox"/> c. Segmental retaining walls: inspect placement of limits, dowels, connectors, etc.             | Continuous  | GE*          | * By geotechnical engineer or his or her qualified representative.                         |
| <input type="checkbox"/> d. Concrete retaining walls.  | Provide tests and inspections per CONCRETE section below. |              |  |
| <input type="checkbox"/> e. Masonry retaining walls.   | Provide tests and inspections per MASONRY section below.  |              |  |

S6. OTHER SOILS:

| Test or Special Inspection                                  | Type       | Performed By | Code References and Notes  |
|---|------------|--------------|--|
| <input type="checkbox"/> a. Soil Improvements               | Test       | GE*          | Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CDS (California Geological Survey) for final acceptance.<br>* By geotechnical engineer or his or her qualified representative. |
| <input type="checkbox"/> b. Inspection of Soil Improvements | Continuous | GE*          |  |
| <input type="checkbox"/> c.                                 |            |              |  |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 4 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

Application Number:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES

| Test or Special Inspection  | Type     | Performed By | Code References and Notes  |
|---|----------|--------------|--|
| <input checked="" type="checkbox"/> a. Verify identification of all materials and -Mill certificates indicate material properties that comply with requirements.<br>-Material sizes, types and grades comply with requirements. | Periodic | -            | Table 1705A.2.1 Item 3a, 3c; 2202A.1; AISI S100-20 Section A3.1 & A3.2; AISI S240-20 Section A3 & A4; AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site. |
| <input checked="" type="checkbox"/> b. Test unidentified materials  | Test     | LOR          | 2202A.1.   |
| <input checked="" type="checkbox"/> c. Examine seam welds of HSS shapes   | Periodic | SI           | DSA IR 17-3.   |
| <input checked="" type="checkbox"/> d. Verify and document steel fabrication per DSA-approved construction documents.   | Periodic | SI           | Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).  |
| <input type="checkbox"/> e. Buckling restrained braces.   | Test     | LOR          | Testing and special inspections in accordance with IR 22-4.  |

S/A2. HIGH-STRENGTH BOLTS: SEE STRUCTURAL NOTES ON SERIES 1000 SHEETS FOR JOINT TYPE

| Test or Special Inspection   | Type     | Performed By | Code References and Notes  |
|--|----------|--------------|--|
| <input checked="" type="checkbox"/> a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents. | Periodic | SI           | Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and NS.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.  |
| <input checked="" type="checkbox"/> b. Test high-strength bolts, nuts and washers.   | Test     | LOR          | Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.  |
| <input checked="" type="checkbox"/> c. Bearing-type ("snug tight") connections.  | Periodic | SI           | Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & NS.6; RCSC 2014 Section 9.1; DSA IR 17-9.  |
| <input checked="" type="checkbox"/> d. Pretensioned and slip-critical connections.   | -        | SI           | Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & NS.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. "Continuous" or "Periodic" depends on the tightening method used. |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 8 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

Application Number:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

Test or Special Inspection

| Test or Special Inspection   | Type     | Performed By | Code References and Notes                     |
|--|----------|--------------|---|
| <div>S/A8. SPRAYED FIRE-RESISTANT MATERIALS:</div> <div><input type="checkbox"/> a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.</div> | Periodic | SI           | 1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4. |
| <input type="checkbox"/> b. Test density.  | Test     | LOR          | 1705A.15.1, 1705A.15.5, ASTM E736             |
| <input type="checkbox"/> c. Bond strength adhesion/cohesion  | Test     | LOR          | 1705A.15.1, 1705A.15.4, ASTM E605             |

S/A9. ANCHOR BOLTS AND ANCHOR RODS:

| Test or Special Inspection                               | Type | Performed By | Code References and Notes |
|--|------|--------------|---------------------------|
| <input type="checkbox"/> a. Anchor Bolts and Anchor Rods | Test |              |                           |



GENERAL NOTES

1- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING. UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2022 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3- FOUNDATION DESIGN BASED ON CBC 2022, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4- DESIGN PER FOLLOWING CODES: CBC 2022 (CHAPTER 35), ASCE 7-16, AISC 360-16, AISC 341-16, ACI 318-19, ASCE 55-16 & ASCE 19-16

STRUCTURAL STEEL

1- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2022 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.

3- ALL WORK SHALL CONFORM TO CBC 2022 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

4- ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500-16 GRADE C, IN ITS ENTIRETY. TYPICAL MECHANICAL PROPERTIES ARE:

5- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:

6- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

7- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

8- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

9- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

10- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" E70XX ELECTRODES UNLESS OTHERWISE NOTED. GMAW IS ACCEPTABLE.

11- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, YIELD STRENGTH= 65 KSI, TENSILE STRENGTH=100 KSI MINIMUM, ALLOY GROUP 2, CONDITION CW1. ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 2, CONDITION CW1. REFERRING TO RCSC, ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS. BOLTS, ITEM 11, SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST).

12- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM F3125 GRADE A325 N (GALVANIZED). ALL NUTS SHALL COMPLY WITH ASTM A630M, AND WASHERS SHALL COMPLY WITH ASTM F436. HIGH STRENGTH BOLTS, ITEM 15, SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST) WITH DOUBLE NUTS. ALL NUTS SHALL BE LUBRICATED WITH A LUBRICANT CONTAINING A VISIBLE DYE SO A VISUAL CHECK CAN BE MADE FOR THE LUBRICANT AT THE TIME OF THE FIELD INSTALLATION. WASHERS SHALL BE GALVANIZED PER ASTM F2329.

13- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN.) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS, ASKO NOBEL, PPG OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:

14- ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

15- ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329) AS APPLICABLE, OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

CONCRETE SPECIFICATION

1- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2022 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2- CONCRETE TO BE F<sub>cr</sub>= 4500 PSI, TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT, MAXIMUM WATER/CEMENT RATIO OF 0.45, PER ACI 318-19 CHAPTER 19. (NO ADMIXTURES CONTAINING CALCIUM CHLORIDE WILL BE USED.) REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 AND TO BE F<sub>y</sub>= 60000 PSI, MIN. OR, 60, ALSO COATED ACCORDING TO ASTM A767/ A767M, STANDARD SPECIFICATION FOR ZINC-COATING (GALVANIZED) STEEL BARS FOR CONCRETE REINFORCEMENT.

3- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 36 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329). ANCHOR BOLTS DIAMETER NEEDS TO BE AS FOLLOWS:

4- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

6- CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.

FABRIC SPECIFICATION

1- FABRIC SHALL BE MANUFACTURED BY MULTIKINT LTD., WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS. MINIMUM SEAM LENGTH 3/4".

2- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOL'S DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.

4- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST. FLAME SPREAD INDEX (FSI): 10. SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.

5- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED. FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE & FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

1- FOR FABRIC ATTACHMENT USE 3/8" 7x19 GALV. CABLE PER ASTM A1023/A1023M, WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 300 LBS MINIMUM AND 500 LBS MAXIMUM. THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS 8a=4908 LB.

2- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.

MAXIMUM OCCUPANT LOAD (PER CBC 2022 TABLE 1604A.6)  
-K-12: 250 PERSONS  
-PUBLIC ASSEMBLY: 300 PERSONS  
-EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE: 500 PERSONS

CBC PC DESIGN NOTES

BUILDING CODE  
FLOOR LIVE LOAD  
ROOF LIVE LOAD

CBC 2022 (BASED ON IBC 2021)  
N/A  
RLL 5 PSF

ALLOWABLE SOIL PRESSURE:  
DL + LL (CONC FTG) 1500 PSF  
DL + LL + SEISMIC (CONC FTG) 1500 PSF  
LATERAL BEARING DESIGN VALUE 100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2

TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT)  
PER CBC SECTION 1806A.3.4.  
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM  
BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).  
UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

ROOF SNOW LOAD 5 PSF  
ICE LOAD ZERO PSF  
FLOOD HAZARD AREA ZONE X  
WHEN A SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2  
NOTE: WIND DESIGN IS LIMITED TO UNOBSTRUCTED CLEAR FLOW CONDITION  
-BASIC DESIGN WIND SPEED (3 SEC GUST) V 115 MPH  
-ASD WIND LOAD (CBC 2022 SEC. 1603A.1.4) V<sub>ASD</sub> 90 MPH  
-WIND EXPOSURE FACTOR C 1  
-TOPOGRAPHIC FACTOR K<sub>z</sub> 1  
-RISK CATEGORY II  
-VELOCITY PRESSURE EXPOSURE COEFFICIENT K<sub>z</sub> 0.88  
-VELOCITY PRESSURE K<sub>q</sub> 25.32 PSF

SEISMIC DESIGN:  
-SITE CLASS D  
NOTE: UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SM1 VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.

-SPECTRAL RESPONSE COEFFICIENTS  
SDS 2.00  
SD1 1.39

-LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM.

-SEISMIC IMPORTANCE FACTOR I<sub>e</sub> 1.0  
-DESIGN BASE SHEAR AT BASE V 6866 LB  
-SEISMIC RESPONSE COEFFICIENTS C<sub>s</sub> 1.6  
-RESPONSE MODIFICATION FACTOR R 1.25  
-ANALYSIS PROCEDURE II  
-RISK CATEGORY II  
-SEISMIC DESIGN CATEGORY E  
-SITE COEFFICIENT CATEGORY F<sub>v</sub> 1.5  
-REDUNDANCY FACTOR ρ 1.3

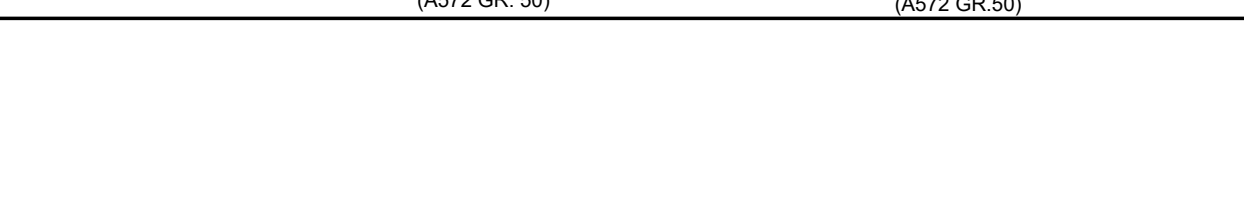
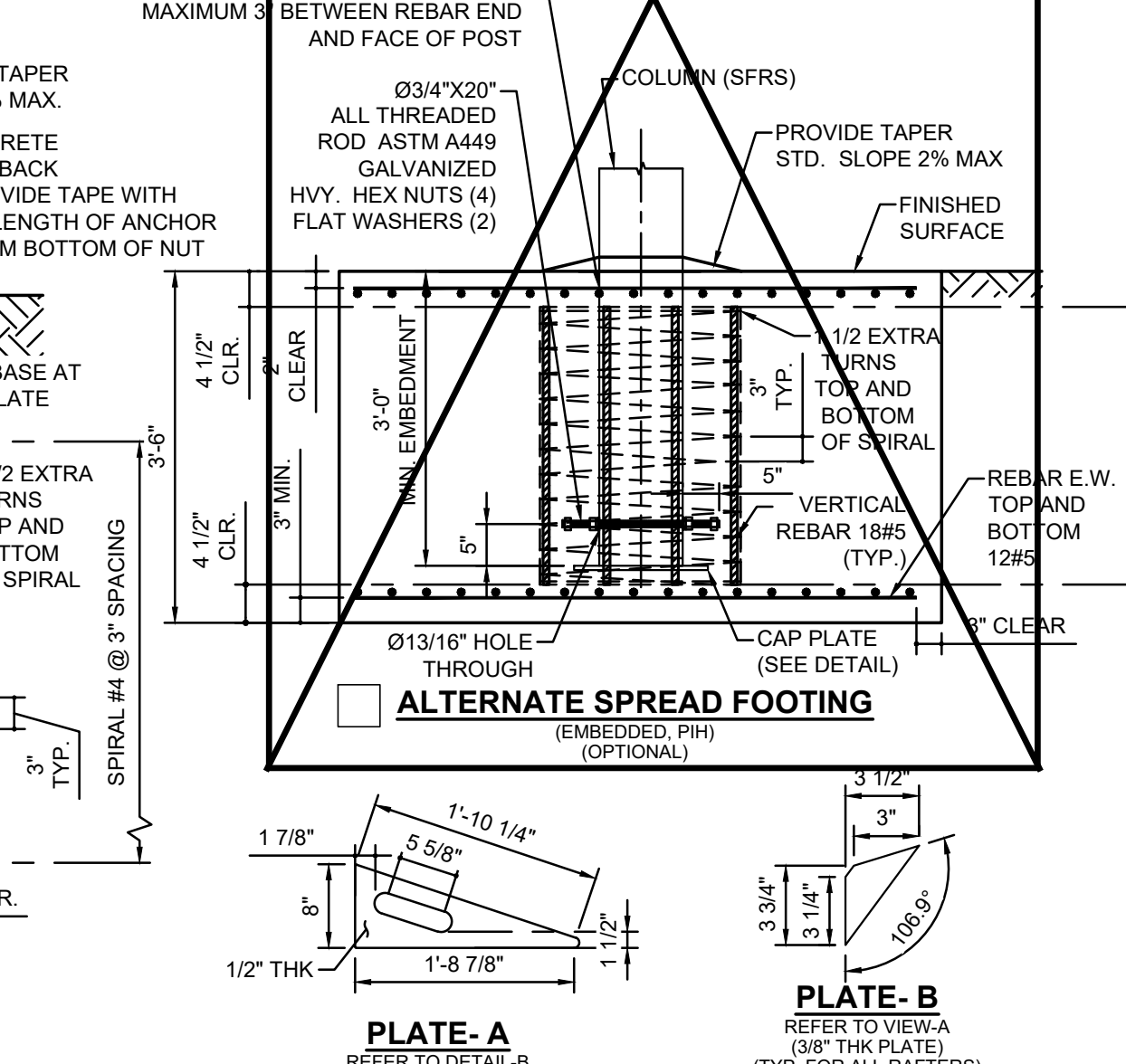
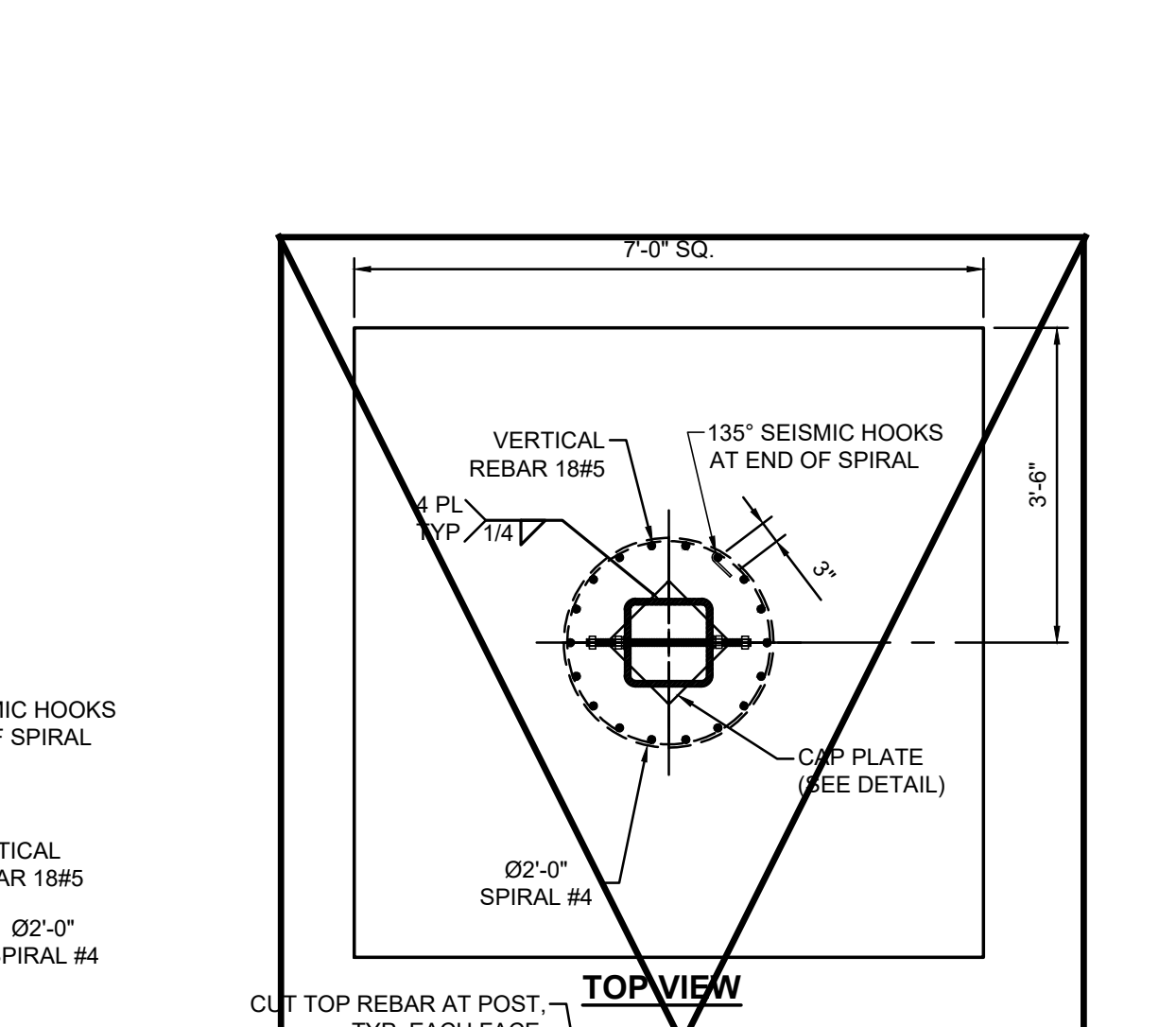
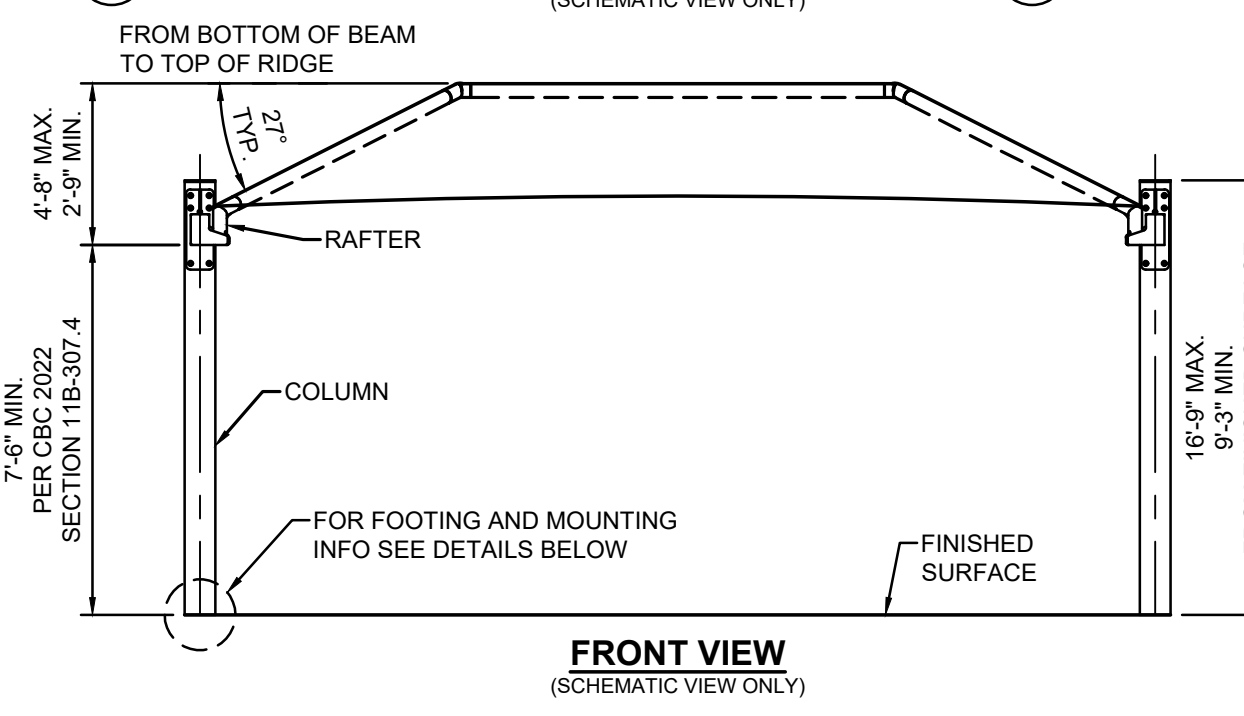
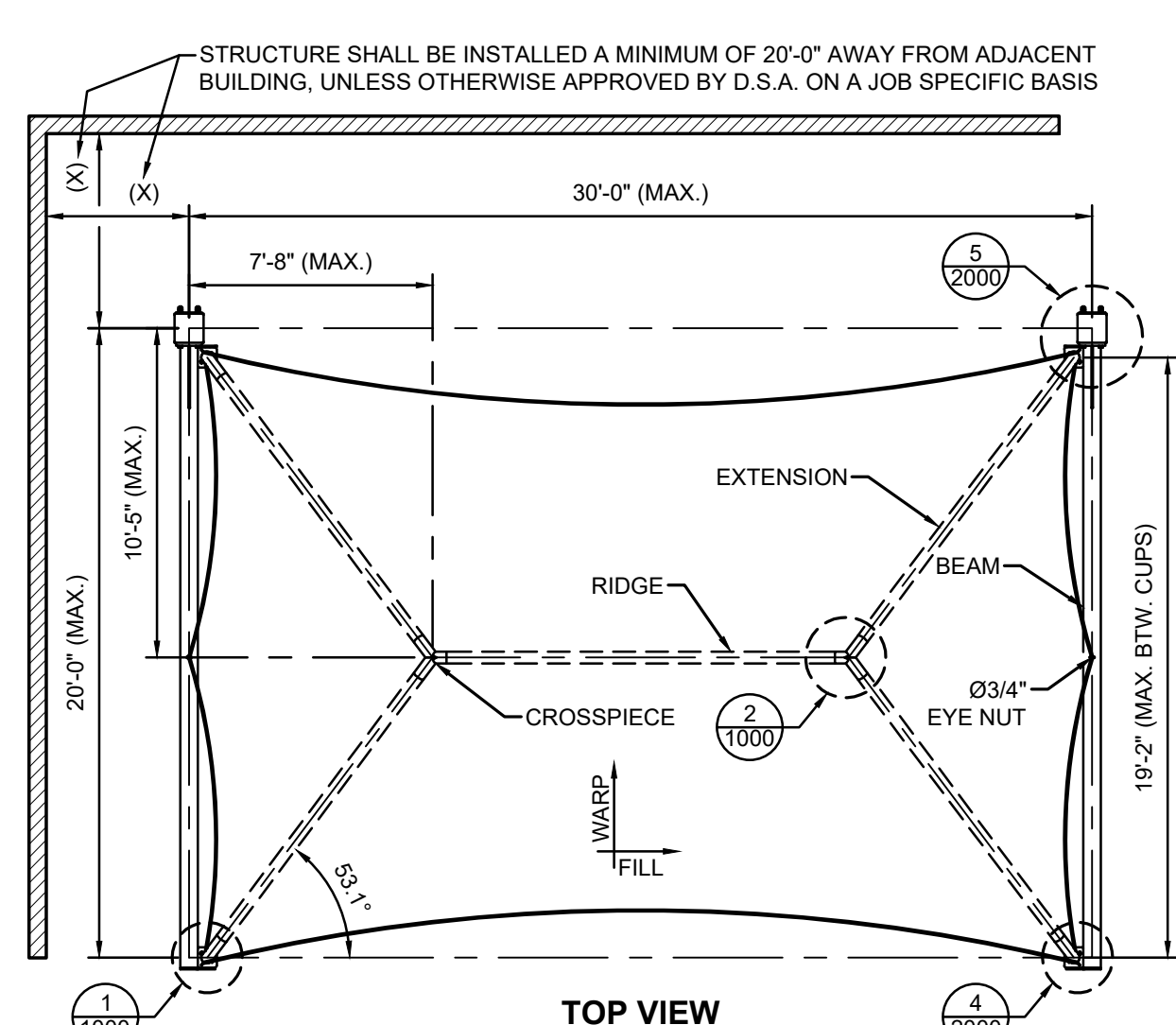
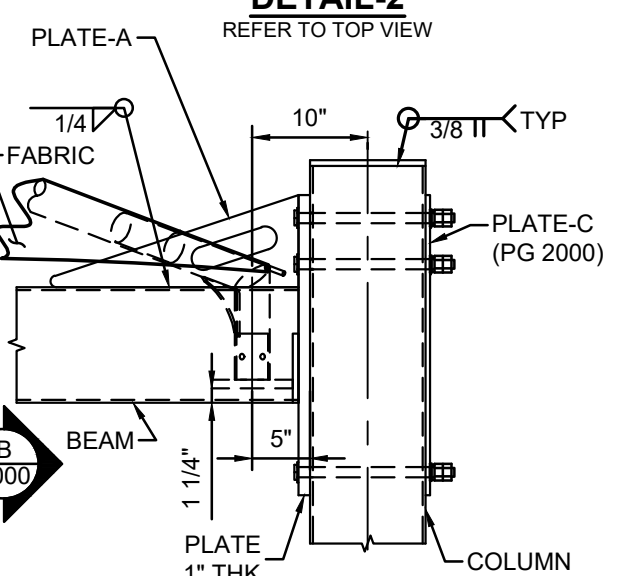
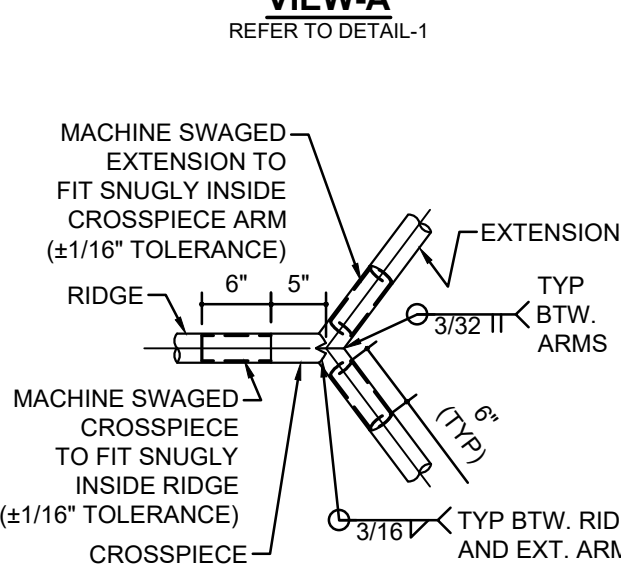
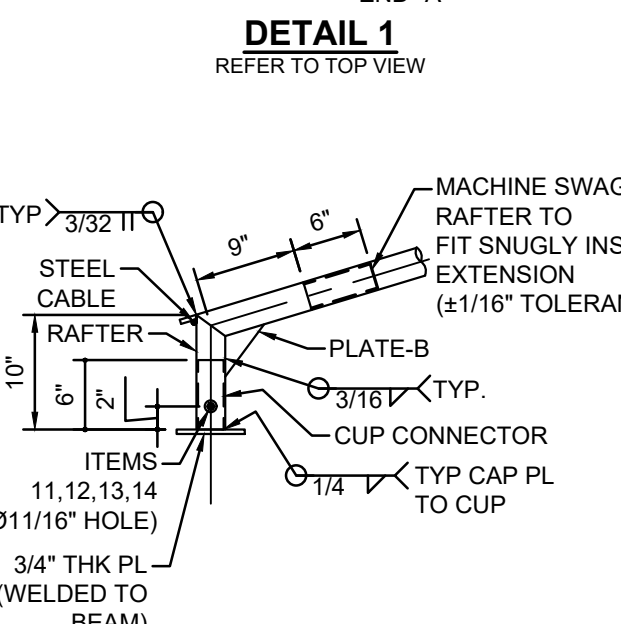
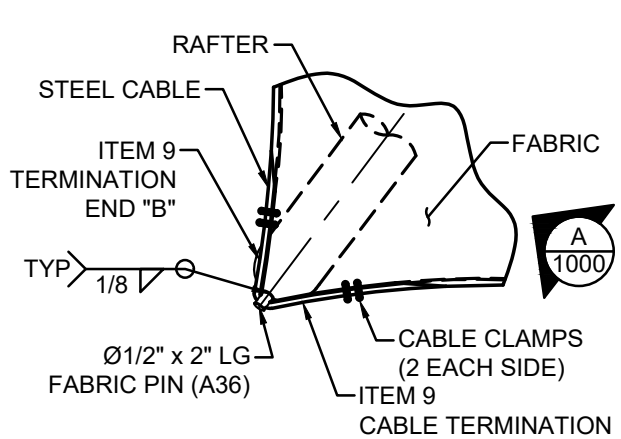
GEHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQ FT OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

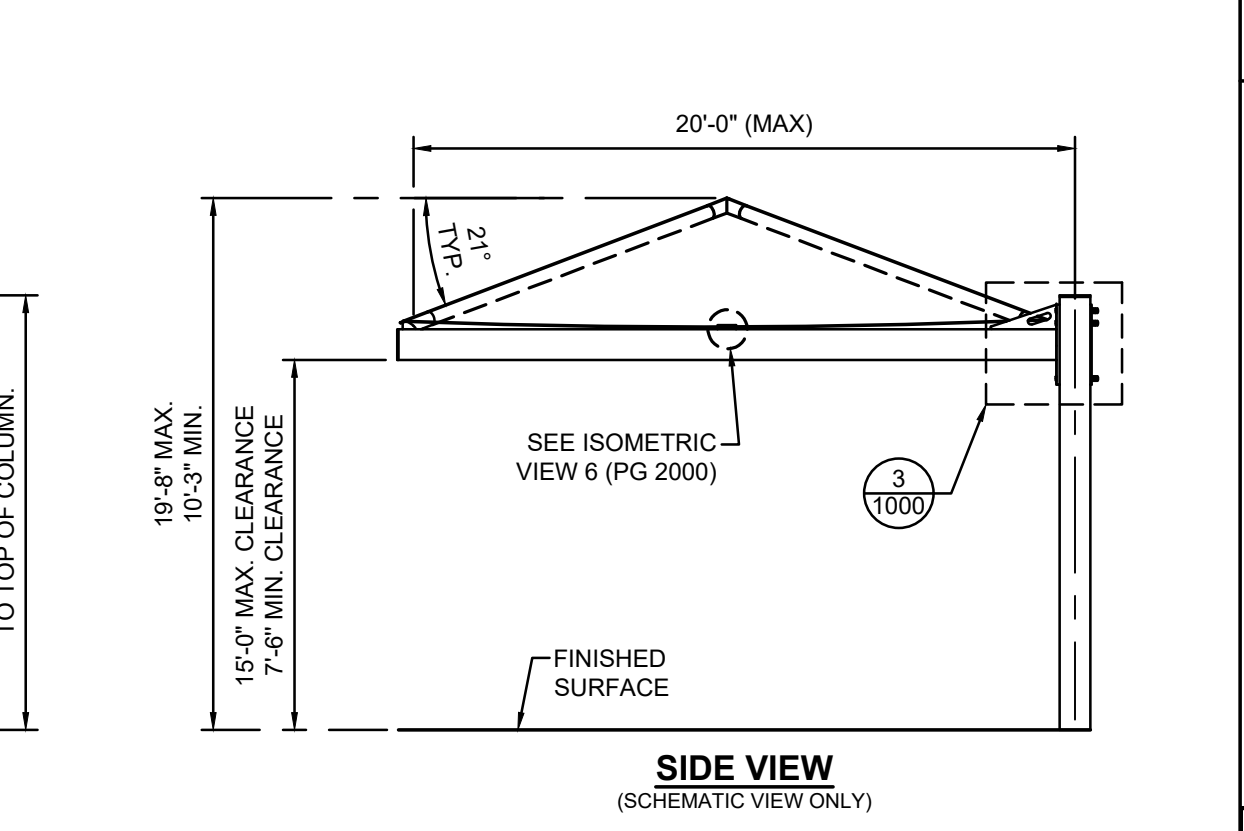
PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 17'-6" THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.

MINIMUM CLASS 2 PROJECT INSPECTOR REQUIRED.



| LIST OF MATERIALS |     |                                    |                                      |
|-------------------|-----|------------------------------------|--------------------------------------|
| ITEM              | QTY | DESCRIPTION                        | MATERIAL                             |
| 1                 | 2   | COLUMN                             | HSS 10 x 10 x 0.625                  |
| 2A                | 1   | BEAM LEFT                          | HSS 10 x 6 x 0.375                   |
| 2B                | 1   | BEAM RIGHT                         | HSS 10 x 6 x 0.375                   |
| 3                 | 4   | CUP CONNECTOR (6" LG)              | HSS 4.0 x 0.25                       |
| 4                 | 4   | RAFTER (GALVANIZED STEEL TUBE)     | 4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188) |
| 5                 | 4   | EXTENSION (GALVANIZED STEEL TUBE)  | 4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188) |
| 6                 | 2   | CROSSPIECE (GALVANIZED STEEL TUBE) | 4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188) |
| 7                 | 1   | RIDGE                              | 4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188) |
| 8                 | 1   | FABRIC TOP                         | FR COLOURSHADE 190/F5                |
| 9                 | 1   | Ø3/8" CABLE                        | GALVANIZED STEEL                     |
| 10                | 4   | Ø3/8" CABLE CLAMP                  | GALVANIZED STEEL                     |
| 11                | 4   | Ø5/8"-11NC x 6" HEX BOLT (ST)      | 316 SS                               |
| 12                | 4   | Ø5/8"-11NC HEX NUT                 | 316 SS                               |
| 13                | 8   | Ø5/8" FLAT WASHER                  | 316 SS                               |
| 14                | 4   | Ø5/8" SPLIT LOCK WASHER            | 316 SS                               |
| 15                | 12  | Ø1"-8NC x 14 1/2" HEX BOLT (ST)    | ASTM F3125 GRADE A325, GALVANIZED    |
| 16                | 24  | Ø1"-8NC HEX NUT                    | ASTM A563 GALVANIZED                 |
| 17                | 12  | Ø1" SPLIT LOCK WASHER              | ASTM F436 GALVANIZED                 |
| 18                | 24  | Ø1" FLAT WASHER                    | ASTM F436 GALVANIZED                 |



NOTE: THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE OPEN FABRIC SHADE STRUCTURES ADJACENT TO EACH OTHER, FROM CENTER TO CENTER, IS THREE TIMES THE LEAST HORIZONTAL DIMENSION OF THE PIER PER CBC 2022 SEC. 1810A.2.5.

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS  
2580 ESTERS BLVD. SUITE 100  
DFW AIRPORT, TX, 75261  
800-966-5005

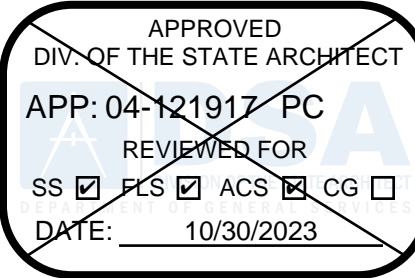
CERTIFICATIONS:  
IAS CERTIFICATION No: FA-428  
CLARK COUNTY MANUFACTURER  
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:  
Solano Community College District

PROJECT NAME:  
Solano Community College  
Sand Volleyball Complex

LOCATION:  
4000 Suisun Valley Road  
Fairfield, CA 94534

MODEL NUMBER:  
DSA2022030-22



STRUCTURE TYPE:  
FULL CANTILEVER HIP  
SINGLE - DSA  
SIZE: MAXIMUM  
20' x 30' x 15'e MAX.  
SCALE : NONE  
DRAWING SIZE: D

PRE-CHECK (PC)  
DOCUMENT  
Code : 2022 CBC  
A separate project application for construction is required.

Eng. By : HH 12/01/22  
Design By : OS 12/01/22  
Approved By : MB 12/01/22

DRAWING DESCRIPTION:  
PRODUCT INFORMATION

DWG. DSA2022030-22  
SHEET 11.1-1000  
REV. NC







DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

|                                  |                           |                                      |
|----------------------------------|---------------------------|--------------------------------------|
| Application Number:<br>04-122194 | School Name:<br>Pre Check | School District:<br>Daktronics, Inc. |
| DSA File Number:                 | Increment Number:         | Date Created:<br>2023-04-20 22:42:50 |

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

\*\*NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

| 1. TYPE   | 2. PERFORMED BY  |
|---|--|
| Continuous Indicates that a continuous special inspection is required | GE (Geotechnical Engineer) Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.<br>LOR (Laboratory of Record) Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. |
| Periodic Indicates that a periodic special inspection is required     | PI (Project Inspector) Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.  |
| Test Indicates that a test is required                                | SI (Special Inspection) Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.   |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 1 of 17

STATE OF CALIFORNIA

THE REST OF THE DSA 103 FORM  
CONTINUES ON SHEETS 2 & 3.

CHECKLIST OF DESIGN PARAMETERS:

- RISK CATEGORY: II
- WIND SPEED: 100 MPH OR 130 MPH, AS SELECTED FROM TABLES ON SHEETS 8 THRU 10
- ALL CONNECTIONS AND MOUNTING DETAILS DESIGNED FOR 130MPH.
- EXPOSURE: C
- $K_{dt} = 1.0$ ,  $K_d = 0.85$ ,  $g = 0.85$
- LATERAL FORCE-RESISTING SYSTEM: SIGNS & BILLBOARDS
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
- SEISMIC DESIGN CATEGORY: E
- SEISMIC IMPORTANCE FACTOR:  $I_e = 1.0$
- SITE CLASS: D (E & F ARE NOT ALLOWED)
- $S_s$ : 3.00
- $S_1$ : 1.50
- $SDS$ : 2.00
- $SD1$ : 1.70
- $F_y = 1.7$
- $F_a = 1.0$
- $R = 3.0$
- $C_s$ : 0.67
- DESIGN BASE SHEAR:  $V = 0.67W$
- IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THIS PC ARE STILL APPLICABLE.
- GEOHAZARD REPORTS ARE NOT REQUIRED FOR NON-BUILDING FREESTANDING SIGN AND SCOREBOARD STRUCTURES. REF. IR A-4
- CUT SHEETS FOR MANUFACTURED EQUIPMENT ARE REQUIRED.
- THERE ARE NO APPLICABLE FIRE, LIFE SAFETY, OR ENERGY/CLIMATE DESIGN PARAMETERS.

SHEET 1: SCOREBOARD PC COVER SHEET  
SHEET 2: DSA 103 SPECIAL INSPECTION FORM (CONT.)  
SHEET 3: DSA 103 SPECIAL INSPECTION FORM (CONT.)  
SHEET 4: EQUIPMENT MOUNTING DETAILS (WITHOUT VIDEO DISPLAY)  
~~SHEET 5: EQUIPMENT MOUNTING DETAILS (WITH VIDEO DISPLAY)~~  
~~SHEET 6: DECORATIVE ACCENT TRUSS LAYOUT~~  
~~SHEET 7: SPORTSOUND 500 ATTACHMENT DETAILS~~  
~~SHEET 8: SPORTSOUND 1500HD MOUNTING DETAILS~~  
SHEET 9: TWO-COLUMN STRUCTURE DETAILS WITH PIER FOUNDATIONS  
~~SHEET 10: THREE-COLUMN STRUCTURE DETAILS WITH PIER FOUNDATIONS~~  
~~SHEET 11: SPORTSOUND 1500HD SINGLE POLE MOUNTING~~

DRAWING INDEX

SCOPE: CONSTRUCTION OF 2- OR 3-COLUMN STRUCTURES FOR USE WITH DAKTRONICS SIGNS.

INSPECTOR OF RECORD, CLASS 2

PRECHECK DRAWING CHANGES:  
CHANGES IN THE PLANS AND SPECIFICATION SHALL BE MADE BY REVISION DOCUMENTS APPROVED BY DSA. (2022 CALIFORNIA ADMINISTRATIVE CODE SECTION 4-338)

SITE SPECIFIC ARCHITECTURAL DRAWING CHANGES:

ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) CHANGES TO THE APPROVED DRAWING AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF STATE ARCHITECTS, AS REQUIRED BY SECTION 4-338 PART 1 TITLE 24 CCR.

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT, OWNER AND APPROVED BY THE DIVISION OF STATE ARCHITECTS SHALL PROVIDE SPECIAL INSPECTION OF THE WORK, THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 CODE.

TITLE 24 CODES

|   |                         |
|---|-------------------------|
| 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC).....            | (PART 1, TITLE 24 CCR)  |
| 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2..... | (PART 2, TITLE 24 CCR)  |
| 2022 CALIFORNIA ELECTRICAL CODE.....                      | (PART 3, TITLE 24 CCR)  |
| 2022 CALIFORNIA MECHANICAL CODE (CMC).....                | (PART 4, TITLE 24 CCR)  |
| 2022 CALIFORNIA PLUMBING CODE.....                        | (PART 5, TITLE 24 CCR)  |
| 2022 CALIFORNIA ENERGY CODE.....                          | (PART 6, TITLE 24 CCR)  |
| 2022 CALIFORNIA FIRE CODE (CFC).....                      | (PART 9, TITLE 24 CCR)  |
| 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE.....        | (PART 11, TITLE 24 CCR) |
| 2022 CALIFORNIA REFERENCED STANDARDS CODE.....            | (PART 12, TITLE 24 CCR) |

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS

2022 CBC, CHAPTER 35  
2022 CFC, CHAPTER 80

GENERAL REQUIREMENTS

THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL RESPONSIBLE CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND SPECIFICATIONS.

GENERAL / CODE INFORMATION

ALUMINUM: ALL ALUMINUM MEMBER GRADE 6061-T6 (UNLESS NOTED OTHERWISE) CORROSION RESISTANT MATERIAL SHALL BE PROVIDED BETWEEN FERROUS METAL (STEEL) AND NON-FERROUS METAL (ALUMINUM).

STEEL: DESIGN AND FABRICATION IN ACCORDANCE WITH AISC-ASD, 15th EDITION.  
WIDE FLANGE SHAPES ASTM A992 ( $F_y = 50$  ksi)  
BOLTS SS304 F593C CW1,  $F_u=100$  KSI OR A325 WITH CORROSION-PREVENTITIVE COATING THAT DEMONSTRATED NO MORE THAN 2% RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117.  
ZINC PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT AND GALVANIZED HARDWARE IS NOT COMPATIBLE WITH ALL MANUFACTURED EQUIPMENT.  
REINFORCING STEEL ASTM 615, GRADE 60 ( $F_y = 60$  ksi)  
RSS SHAPES ASTM A500 OR C ( $F_y = 50$  ksi)  
STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED (MINIMUM ASTM A123 OR A153 CLASS D, AS APPLICABLE) OR PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM.

WELDING: DESIGN AND FABRICATION ACCORDING TO AWS D1.1, CURRENT EDITION, AWS CERTIFICATION REQUIRED OF ALL STRUCTURAL WELDERS.  
E70XX ELECTRODES FOR SHAW PROCESSES  
F7X-EXXX ELECTRODES FOR SAW PROCESSES  
PROVIDE PERIODIC SPECIAL INSPECTION FOR FIELD WELDING PER 2022 CBC, TABLE 1705A.2.1

CONCRETE: DESIGN AND CONSTRUCTION ACCORDING TO ACI 318-19.  
TYPE V CEMENT, MAXIMUM WATER-TO-CEMENT RATIO = 0.45  
COMPRESSIVE STRENGTH AT 28 DAYS ( $f'_c$ ) = 4500 PSI, MIN.  
CONTINUOUS BATCH PLANT INSPECTION NOT REQUIRED.  
PROVIDE SLOPE AWAY FROM BASE OF SUPPORTS.  
CONCRETE POURED INTO CONSTRAINED EARTH EXCAVATIONS MUST CURE UNDER PROPER CONDITIONS FOR 4 DAYS PRIOR TO SIGN CABINET INSTALLATION.  
EXCEPTION: IF THE OVERALL HEIGHT OF THE SIGN IS LESS THAN 20 FEET ABOVE GRADE AND THE SIGN POLE IS ADEQUATELY BRACED AGAINST WIND LOADS FOR A MINIMUM OF 4 DAYS, THE SIGN CABINET MAY BE INSTALLED THE SAME DAY THE FOOTING IS POURED.

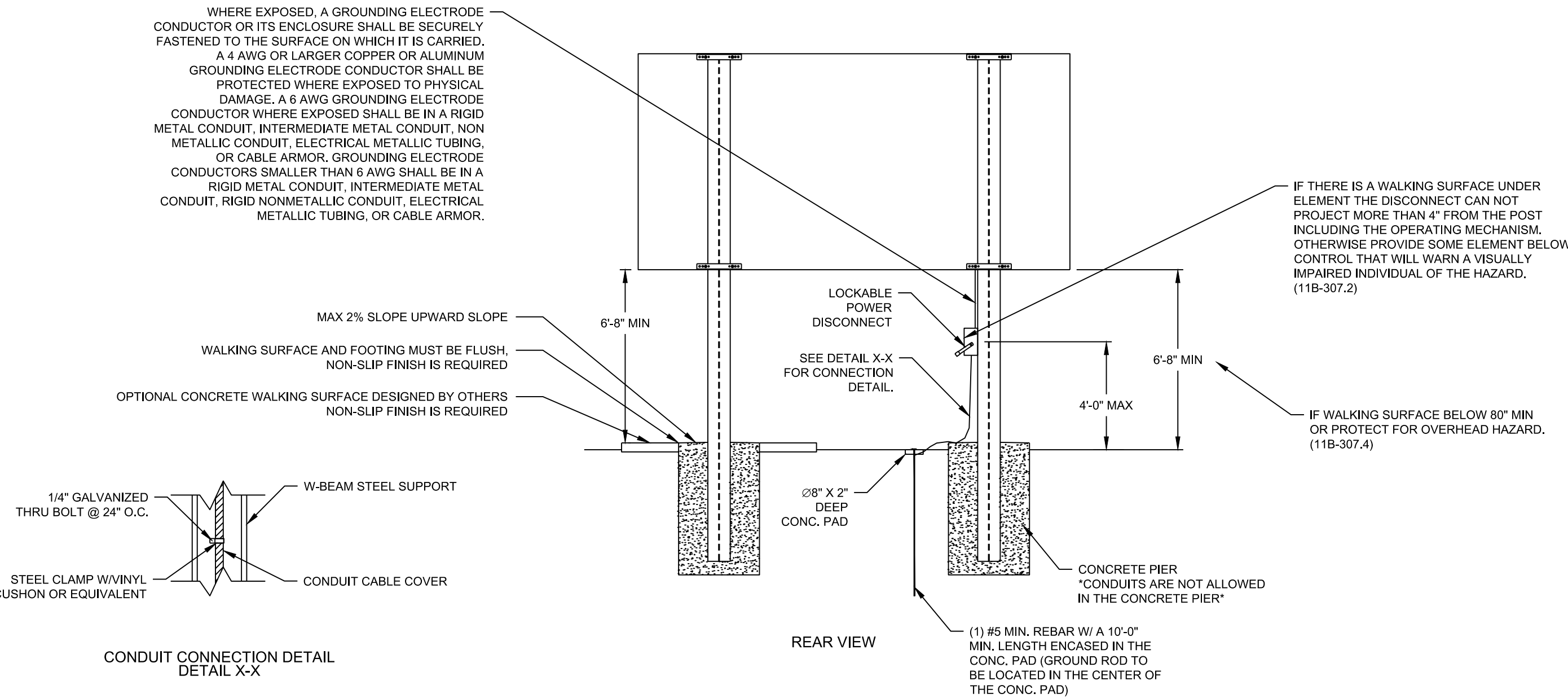
SOILS: SOIL PASSIVE PRESSURE BASED ON 2022 CBC, TABLE 1806A.2, CLASS 5.  
LATERAL BEARING PRESSURE = 100 PSF/FT (THIS VALUE IS INCREASED IN THE CALCULATIONS PER CBC SECTION 1806A.3.4 FOR POLE FOOTING DESIGN)  
INSPECTOR OF RECORD (IR) SHALL PROVIDE INSPECTION OF SOILS PER TEST AND INSPECTION FORM DSA-103. (IF SOFT OR SANDY SOIL, COLLAPSING OR UNSTABLE SOIL, CORROSIVE SOIL, ORGANIC MATERIALS OR GROUNDWATER ARE ENCOUNTERED, IMMEDIATELY CONTACT THE ARCHITECT OR ENGINEER OF RECORD FOR ADDITIONAL FOUNDATION REQUIREMENTS.)

TESTING & QUALITY CONTROL:  
UNLESS NOTED OTHERWISE, CONCRETE MATERIALS SHALL CONFORM TO CHAPTER 19A. SPECIAL INSPECTIONS AND TESTS SHALL BE REQUIRED PER TABLE 1705A.3. FOUNDATION INSPECTION SHALL BE REQUIRED PER 1705A.6. STEEL SPECIAL INSPECTION AND TESTS SHALL BE REQUIRED PER TABLE 1705A.2.1.

NOTES:  
SIGN CABINETRY SHALL BE FABRICATED TO PROVIDE ISOLATION OF DISSIMILAR MATERIALS.  
DAKTRONICS HAS DESIGNED THE DISPLAY COMPONENTS AND THEIR MOUNTING PER CBC 2022 AND THEY ARE IN COMPLIANCE WITH THE CURRENT CODES.

CONSTRUCTION SPECIFICATIONS

GROUNDING DETAIL



NOTE:  
ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE CALIFORNIA ELECTRICAL CODE WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

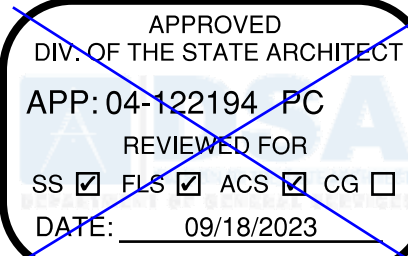


WELLS L. HOLMES, S.E.  
6511 W. GALENA PARK BLVD. STE. 101  
DRAPER, UTAH 84020  
(801) 990-1775  
(801) 990-1776 FAX



08/07/2023

STRUCTURAL ENGINEER OF RECORD



PROJECT-SPECIFIC APPROVALS

Quote: 846848-1-0  
Solano Community College

PRE-CHECK (PC) DOCUMENT  
Code: 2022 CBC  
A separate project application for construction is required.



DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

|  |  |  |
|--|--|--|
| Application Number:<br>04-122194<br>DSA File Number: | School Name:<br>Pre Check<br>Increment Number: | School District:<br>Daktronics, Inc.<br>Date Created:<br>2023-04-20 22:42:50 |
|--|--|--|

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

\*\*NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

| 1. TYPE                | 2. PERFORMED BY  |
|------------------------|--|
| Continuous<br>required | Indicates that a continuous special inspection is required.<br>GE (Geotechnical Engineer) Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.<br>LOR (Laboratory of Record) Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.<br>PI (Project Inspector) Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. |
| Periodic               | Indicates that a periodic special inspection is required   |
| Test                   | Indicates that a test is required<br>SI (Special Inspector) Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.   |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 1 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

|  |  |  |
|--|--|--|
| Application Number:<br>04-122194<br>DSA File Number: | School Name:<br>Pre Check<br>Increment Number: | School District:<br>Daktronics, Inc.<br>Date Created:<br>2023-04-20 22:42:50 |
|--|--|--|

| Test or Special Inspection  | Type       | Performed By | Code References and Notes   |
|---|------------|--------------|---|
| S5. RETAINING WALLS:  |            |              |   |
| Test or Special Inspection  | Type       | Performed By | Code References and Notes   |
| <input type="checkbox"/> a. Placement, compaction and inspection of backfill.                               | Continuous | GE*          | 1705A.6.1, * By geotechnical engineer or his or her qualified representative. (See section S2 above). |
| <input type="checkbox"/> b. Placement of soil reinforcement and/or drainage devices.                        | Continuous | GE*          | * By geotechnical engineer or his or her qualified representative.                                    |
| <input type="checkbox"/> c. Segmental retaining walls: inspect placement of units, dowels, connectors, etc. | Continuous | GE*          | * By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.                   |
| <input type="checkbox"/> d. Concrete retaining walls.   |            |              | Provide tests and inspections per CONCRETE section below.   |
| <input type="checkbox"/> e. Masonry retaining walls.  |            |              | Provide tests and inspections per MASONRY section below.  |

|   |            |              |  |
|---|------------|--------------|--|
| S6. OTHER SOILS:  |            |              |  |
| Test or Special Inspection                                  | Type       | Performed By | Code References and Notes  |
| <input type="checkbox"/> a. Soil Improvements               | Test       | GE*          | Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CSS (California Geological Survey) for final acceptance.<br>* By geotechnical engineer or his or her qualified representative. |
| <input type="checkbox"/> b. Inspection of Soil Improvements | Continuous | GE*          | * By geotechnical engineer or his or her qualified representative.   |
| <input type="checkbox"/> c.                                 |            |              |  |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 4 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

|  |  |  |
|--|--|--|
| Application Number:<br>04-122194<br>DSA File Number: | School Name:<br>Pre Check<br>Increment Number: | School District:<br>Daktronics, Inc.<br>Date Created:<br>2023-04-20 22:42:50 |
|--|--|--|

|  |            |              |  |
|--|------------|--------------|--|
| C4. SHOTCRETE (IN ADDITION TO SECTION C1):   |            |              |  |
| Test or Special Inspection   | Type       | Performed By | Code References and Notes  |
| <input type="checkbox"/> a. Inspect shotcrete placement for proper application techniques. | Continuous | SI           | 1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506R-16. |
| <input type="checkbox"/> b. Sample and test shotcrete (f'c).                               | Test       | LOR          | 1908A.2, 1705A.3.9   |

|  |           |              |  |
|--|-----------|--------------|--|
| C5. POST-INSTALLED ANCHORS:  |           |              |  |
| Test or Special Inspection   | Type      | Performed By | Code References and Notes  |
| <input type="checkbox"/> a. Inspect installation of post-installed anchors | See Notes | SI*          | 1910A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions), ACI 318-14 Sections 17.8 & 26.13, * May be performed by the project inspector when specifically approved by DSA. |
| <input type="checkbox"/> b. Test post-installed anchors.                   | Test      | LOR          | 1910A.5. (See Appendix (end of this form) for exemptions.)   |

|                             |      |              |                           |
|-----------------------------|------|--------------|---------------------------|
| C6. OTHER CONCRETE:         |      |              |                           |
| Test or Special Inspection  | Type | Performed By | Code References and Notes |
| <input type="checkbox"/> a. |      |              |                           |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 7 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

|  |  |  |
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| Application Number:<br>04-122194<br>DSA File Number: | School Name:<br>Pre Check<br>Increment Number: | School District:<br>Daktronics, Inc.<br>Date Created:<br>2023-04-20 22:42:50 |
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Geotechnical Reports:Project does NOT have and does NOT require a geotechnical report

|   |           |              |   |
|---|-----------|--------------|---|
| S1. GENERAL:  |           |              |   |
| Test or Special Inspection  | Type      | Performed By | Code References and Notes   |
| <input type="checkbox"/> a. Verify that:<br>* Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.<br>* Foundation excavations are extended to proper depth and have reached proper material.<br>* Materials below footings are adequate to achieve the design bearing capacity. | See Notes | PI           | Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report. |

|   |            |              |   |
|---|------------|--------------|---|
| S2. SOIL COMPACTION AND FILL:   |            |              |   |
| Test or Special Inspection  | Type       | Performed By | Code References and Notes   |
| <input type="checkbox"/> a. Verify use of proper materials, densities and inspect thicknesses, placement and compaction during placement of fill. | Continuous | LOR*         | * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations. |
| <input type="checkbox"/> b. Compaction testing.   | Test       | LOR*         | * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations. |

|   |            |              |  |
|---|------------|--------------|--|
| S3. DRIVEN DEEP FOUNDATIONS (PILES):  |            |              |  |
| Test or Special Inspection  | Type       | Performed By | Code References and Notes  |
| <input type="checkbox"/> a. Verify pile materials, sizes and lengths comply with the requirements.            | Continuous | GE*          | * By geotechnical engineer or his or her qualified representative. |
| <input type="checkbox"/> b. Determine capacities of test piles and conduct additional load tests as required. | Test       | LOR*         | * Under the supervision of the geotechnical engineer.              |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 2 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

|  |  |  |
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| Application Number:<br>04-122194<br>DSA File Number: | School Name:<br>Pre Check<br>Increment Number: | School District:<br>Daktronics, Inc.<br>Date Created:<br>2023-04-20 22:42:50 |
|--|--|--|

|   |           |              |   |
|---|-----------|--------------|---|
| C1. CAST-IN-PLACE CONCRETE  |           |              |   |
| Test or Special Inspection  | Type      | Performed By | Code References and Notes   |
| <input type="checkbox"/> a. Verify use of required design mix.  | Periodic  | SI           | Table 1705A.3 Item 5, 1910A.1.  |
| <input checked="" type="checkbox"/> b. Identify, sample, and test reinforcing steel.  | Test      | LOR          | 1910A.2, ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10, (See Appendix (end of this form) for exemptions.)   |
| <input checked="" type="checkbox"/> c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | Test      | LOR          | Table 1705A.3 Item 6, ACI 318-19 Sections 26.5 & 26.12.   |
| <input checked="" type="checkbox"/> d. Test concrete (f'c).   | Test      | LOR          | 1905A.1.17, ACI 318-19 Section 26.12.   |
| <input checked="" type="checkbox"/> e. Batch plant inspection: Eliminated   | See Notes | SI           | Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.) |
| <input type="checkbox"/> f. Welding of reinforcing steel.   |           |              | Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.  |

|  |          |              |                                       |
|--|----------|--------------|---------------------------------------|
| C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):           |          |              |                                       |
| Test or Special Inspection   | Type     | Performed By | Code References and Notes             |
| <input type="checkbox"/> a. Sample and test prestressing tendons and anchorages. | Test     | LOR          | 1705A.3.4, 1910A.3                    |
| <input type="checkbox"/> b. Inspect placement of prestressing tendons.           | Periodic | SI           | 1705A.3.4, Table 1705A.3 Items 1 & 9. |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 5 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

|  |  |  |
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| Application Number:<br>04-122194<br>DSA File Number: | School Name:<br>Pre Check<br>Increment Number: | School District:<br>Daktronics, Inc.<br>Date Created:<br>2023-04-20 22:42:50 |
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|   |          |              |   |
|---|----------|--------------|---|
| S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES   |          |              |   |
| Test or Special Inspection  | Type     | Performed By | Code References and Notes   |
| <input checked="" type="checkbox"/> a. Verify identification of all materials and: Mill certificates indicate material properties that comply with requirements. Material sizes, types and grades comply with requirements. | Periodic | *            | Table 1705A.2.1 Item 3a-3c; 2202A.1, AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site. |
| <input checked="" type="checkbox"/> b. Test unidentified materials  | Test     | LOR          | 2202A.1.  |
| <input checked="" type="checkbox"/> c. Examine seam welds of HSS shapes   | Periodic | SI           | DSA IR 17-3.  |
| <input checked="" type="checkbox"/> d. Verify and document steel fabrication per DSA-approved construction documents.   | Periodic | SI           | Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).   |
| <input type="checkbox"/> e. Buckling restrained braces.   | Test     | LOR          | Testing and special inspections in accordance with IR 22-4.   |

|  |          |              |  |
|--|----------|--------------|--|
| S/A2. HIGH-STRENGTH BOLTS:   |          |              |  |
| Test or Special Inspection   | Type     | Performed By | Code References and Notes  |
| <input checked="" type="checkbox"/> a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents. | Periodic | SI           | Table 1705A.2.1 Items 1a & 1b, 2202A.1, AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.  |
| <input checked="" type="checkbox"/> b. Test high-strength bolts, nuts and washers.   | Test     | LOR          | Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.  |
| <input checked="" type="checkbox"/> c. Bearing-type (snug tight) connections.  | Periodic | SI           | Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2, AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.  |
| <input type="checkbox"/> d. Pretensioned and slip-critical connections.  | *        | SI           | Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2, AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. * Continuous or Periodic depends on the tightening method used. |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 8 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

|  |  |  |
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| Application Number:<br>04-122194<br>DSA File Number: | School Name:<br>Pre Check<br>Increment Number: | School District:<br>Daktronics, Inc.<br>Date Created:<br>2023-04-20 22:42:50 |
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|  |            |              |  |
|--|------------|--------------|--|
| Test or Special Inspection   | Type       | Performed By | Code References and Notes  |
| <input type="checkbox"/> c. Inspect driving operations and maintain complete and accurate records for each pile.   | Continuous | GE*          | * By geotechnical engineer or his or her qualified representative. |
| <input type="checkbox"/> d. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage. | Continuous | GE*          | * By geotechnical engineer or his or her qualified representative. |
| <input type="checkbox"/> e. Steel piles.   |            |              | Provide tests and inspections per STEEL section below.             |
| <input type="checkbox"/> f. Concrete piles and concrete filled piles.  |            |              | Provide tests and inspections per CONCRETE section below.          |
| <input type="checkbox"/> g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.   | *          | *            | * As defined on drawings or specifications.                        |

|   |            |              |   |
|---|------------|--------------|---|
| S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):   |            |              |   |
| Test or Special Inspection  | Type       | Performed By | Code References and Notes   |
| <input checked="" type="checkbox"/> a. Inspect drilling operations and maintain complete and accurate records for each pier.              | Continuous | PI           | Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations. |
| <input checked="" type="checkbox"/> b. Verify pier locations, diameters, plumbness and lengths. Record concrete or grout any pile damage. | Continuous | PI           | Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations. |
| <input checked="" type="checkbox"/> c. Concrete piers.  |            |              | Provide tests and inspections per CONCRETE section below.   |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 3 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

|  |  |  |
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| Application Number:<br>04-122194<br>DSA File Number: | School Name:<br>Pre Check<br>Increment Number: | School District:<br>Daktronics, Inc.<br>Date Created:<br>2023-04-20 22:42:50 |
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|  |            |              |   |
|--|------------|--------------|---|
| Test or Special Inspection   | Type       | Performed By | Code References and Notes   |
| <input type="checkbox"/> c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.                            | Periodic   | SI           | Table 1705A.3 Item 13, Special inspector to verify specified concrete strength test prior to stressing. |
| <input type="checkbox"/> d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons. | Continuous | SI           | 1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13   |

|  |            |              |  |
|--|------------|--------------|--|
| C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):  |            |              |  |
| Test or Special Inspection   | Type       | Performed By | Code References and Notes  |
| <input type="checkbox"/> a. Inspect fabrication of precast concrete members.   | Continuous | SI           | ACI 318-19 Section 26.13.  |
| <input type="checkbox"/> b. Inspect erection of precast concrete members.  | Periodic   | SI*          | Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA. |
| <input type="checkbox"/> c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for:<br>1. Installation of the embedded parts<br>2. Completion of the continuity of reinforcement across joints.<br>3. Completion of connections in the field. | Continuous | SI           | Table 1705A.3, ACI 318-19 Section 26.13.1.3, ACI 550.5                             |
| <input type="checkbox"/> d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.   | Periodic   | SI           | Table 1705A.3, ACI 318-19 Section 26.13.1.3, ACI 550.5                             |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 6 of 17

STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

|  |  |  |
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| Application Number:<br>04-122194<br>DSA File Number: | School Name:<br>Pre Check<br>Increment Number: | School District:<br>Daktronics, Inc.<br>Date Created:<br>2023-04-20 22:42:50 |
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|  |          |              |   |
|--|----------|--------------|---|
| S/A3. WELDING:   |          |              |   |
| Test or Special Inspection   | Type     | Performed By | Code References and Notes   |
| <input checked="" type="checkbox"/> a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS. | Periodic | SI           | 1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.3 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3. |
| <input checked="" type="checkbox"/> b. Verify weld filler material manufacturer's certificate of compliance.   | Periodic | SI           | DSA IR 17-3.  |
| <input checked="" type="checkbox"/> c. Verify WPS, welder qualifications and equipment.  | Periodic | SI           | DSA IR 17-3.  |

|  |            |              |   |
|--|------------|--------------|---|
| S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):  |            |              |   |
| Test or Special Inspection   | Type       | Performed By | Code References and Notes   |
| <input checked="" type="checkbox"/> a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI           | Table 1705A.2.1 Items 5a.1-4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.                 |
| <input checked="" type="checkbox"/> b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.                                  | Periodic   | SI           | 1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| <input type="checkbox"/> c. Inspect welding of stairs and railing systems.   | Periodic   | SI           | 1705A.2.1, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.                   |
| <input type="checkbox"/> d. Verification of reinforcing steel weldability other than ASTM A706.  | Periodic   | SI           | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.               |
| <input type="checkbox"/> e. Inspect welding of reinforcing steel.  | Continuous | SI           | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8, AWS D1.4, DSA IR 17-3.               |

DIVISION OF THE STATE ARCHITECT  
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES  
Page 9 of 17

STATE OF CALIFORNIA

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

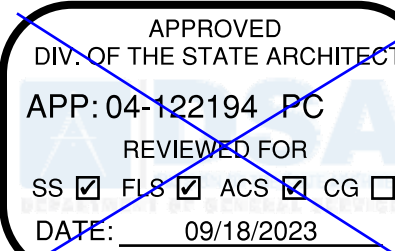


WELLS L. HOLMES, S.E.  
651 W. GALENA PARK BLVD. STE. 101  
DRAPER, UTAH 84020  
(801) 990-1775  
(801) 990-1776 FAX



08/07/2023

STRUCTURAL ENGINEER OF RECORD



PROJECT-SPECIFIC APPROVALS

PRE-CHECK (PC) DOCUMENT  
Code: 2022 CBC  
A separate project application for construction is required.

|   |                      |         |         |
|---|----------------------|---------|---------|
| PROJECT: 2022 CBC DSA PRE-CHECK DRAWINGS        |                      |         |         |
| TITLE: SHEET 2, DSA 103 SPECIAL INSPECTION FORM | DATE: 8 MAR 23       | SHEET 2 | REV A   |
| SCALE: 1/4" = 1'-0"                             | DO NOT SCALE DRAWING |         |         |
| DESIGN: KKKURTEN                                | DRAWN: SEASTMA       | P2236   | 5224618 |



DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16, AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8  
Application Number: School Name: School District:  
04-122194 Daktronics, Inc.  
DSA File Number: Pre Check Date Created: 2023-04-20 22:42:50  
Increment Number:

| Test or Special Inspection   | Type       | Performed By | Code References and Notes   |
|--|------------|--------------|---|
| S/A5, FIELD WELDING (IN ADDITION TO SECTION S/A3):   |            |              |   |
| Test or Special Inspection   | Type       | Performed By | Code References and Notes   |
| <input checked="" type="checkbox"/> a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI           | Table 1705A.2.1 Items 5a.1-4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.   |
| <input checked="" type="checkbox"/> b. Inspect single-pass fillet welds 5/16".   | Periodic   | SI           | Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.  |
| <input type="checkbox"/> c. Inspect end-welded studs (ASTM A-108) installation (including bend test).  | Periodic   | SI           | 2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.  |
| <input type="checkbox"/> d. Inspect floor and roof deck welds.   | Periodic   | SI           | 1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.   |
| <input type="checkbox"/> e. Inspect welding of structural cold-formed steel.   | Periodic   | SI*          | 1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA. |
| <input type="checkbox"/> f. Inspect welding of stairs and railing systems.   | Periodic   | SI*          | 1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.                            |
| <input type="checkbox"/> g. Verification of reinforcing steel weldability.   | Periodic   | SI           | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.   |
| <input type="checkbox"/> h. Inspect welding of reinforcing steel.  | Continuous | SI           | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.   |

DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA  
DGS DSA 103-22 (Revised 12/01/2022) Page 10 of 17

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16, AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8  
Application Number: School Name: School District:  
04-122194 Daktronics, Inc.  
DSA File Number: Pre Check Date Created: 2023-04-20 22:42:50  
Increment Number:


| Test or Special Inspection   | Type     | Performed By | Code References and Notes  |
|--|----------|--------------|--|
| <input type="checkbox"/> c. Storage rack anchorage installation.   | Periodic | SI           | ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7  |
| <input type="checkbox"/> d. Completed storage rack system to indicate compliance with the approved construction documents. | Periodic | SI*          | Table 1705A.13.7; * May be performed by the project inspector when specifically approved by DSA. |

|                             |      |              |                           |
|-----------------------------|------|--------------|---------------------------|
| S/A11, Other Steel          |      |              |                           |
| Test or Special Inspection  | Type | Performed By | Code References and Notes |
| <input type="checkbox"/> a. |      |              |                           |

DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA  
DGS DSA 103-22 (Revised 12/01/2022) Page 13 of 17

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

Application Number: School Name: School District:  
04-122194 Daktronics, Inc.  
DSA File Number: Pre Check Date Created: 2023-04-20 22:42:50  
Increment Number:

|  |                  |
|--|------------------|
| Name of Architect or Engineer in general responsible charge:<br><b>Wells L. Holmes</b>   |                  |
| Name of Structural Engineer (When structural design has been delegated):   |                  |
| Signature of Architect or Structural Engineer:  | Date: 04/24/2023 |

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

|           |
|-----------|
| DSA STAMP |
|-----------|

DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA  
DGS DSA 103-22 (Revised 12/01/2022) Page 16 of 17

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16, AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8  
Application Number: School Name: School District:  
04-122194 Daktronics, Inc.  
DSA File Number: Pre Check Date Created: 2023-04-20 22:42:50  
Increment Number:

| Test or Special Inspection                    | Type | Performed By | Code References and Notes  |
|---|------|--------------|--|
| S/A6, NONDESTRUCTIVE TESTING:                 |      |              |  |
| Test or Special Inspection                    | Type | Performed By | Code References and Notes  |
| <input type="checkbox"/> a. Ultrasonic        | Test | LOR          | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| <input type="checkbox"/> b. Magnetic Particle | Test | LOR          | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| <input type="checkbox"/> c.                   | Test | LOR          |  |

|  |            |              |   |
|--|------------|--------------|---|
| S/A7, STEEL JOISTS AND TRUSSES:  |            |              |   |
| Test or Special Inspection   | Type       | Performed By | Code References and Notes   |
| <input type="checkbox"/> a. Verify size, type and grade for all chord and web members as well as connectors and weld field material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist. | Continuous | SI           | 1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only, 1705A.2.4; AWS D1.3 for cold-formed steel trusses. |

DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA  
DGS DSA 103-22 (Revised 12/01/2022) Page 11 of 17

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: School Name: School District:  
04-122194 Daktronics, Inc.  
DSA File Number: Pre Check Date Created: 2023-04-20 22:42:50  
Increment Number:

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

|   |  |
|---|--|
| SOILS:  |  |
| <input type="checkbox"/> 1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.  |  |
| <input type="checkbox"/> 2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill. |  |

|  |  |
|--|--|
| CONCRETE/MASONRY:  |  |
| <input type="checkbox"/> 1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below |  |
| <input checked="" type="checkbox"/> 2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.   |  |
| <input type="checkbox"/> 3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.  |  |
| <input type="checkbox"/> 4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.  |  |

DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA  
DGS DSA 103-22 (Revised 12/01/2022) Page 14 of 17

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

Application Number: School Name: School District:  
04-122194 Daktronics, Inc.  
DSA File Number: Pre Check Date Created: 2023-04-20 22:42:50  
Increment Number:

- Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
- Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
- Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
- High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA  
DGS DSA 103-22 (Revised 12/01/2022) Page 17 of 17

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16, AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8  
Application Number: School Name: School District:  
04-122194 Daktronics, Inc.  
DSA File Number: Pre Check Date Created: 2023-04-20 22:42:50  
Increment Number:

| Test or Special Inspection   | Type     | Performed By | Code References and Notes                     |
|--|----------|--------------|---|
| S/A8, SPRAYED FIRE-RESISTANT MATERIALS:  |          |              |   |
| Test or Special Inspection   | Type     | Performed By | Code References and Notes                     |
| <input type="checkbox"/> a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents. | Periodic | SI           | 1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4. |
| <input type="checkbox"/> b. Test density.  | Test     | LOR          | 1705A.15.1, 1705A.15.5, ASTM E736             |
| <input type="checkbox"/> c. Bond strength adhesion/cohesion.   | Test     | LOR          | 1705A.15.1, 1705A.15.4, ASTM E605             |

|   |      |              |   |
|---|------|--------------|---|
| S/A9, ANCHOR BOLTS AND ANCHOR RODS:   |      |              |   |
| Test or Special Inspection  | Type | Performed By | Code References and Notes   |
| <input type="checkbox"/> a. Anchor Bolts and Anchor Rods                    | Test | LOR          | Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11. |
| <input type="checkbox"/> b. Threaded rod not used for foundation anchorage. | Test | LOR          | Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.                |

|  |          |              |                             |
|--|----------|--------------|-----------------------------|
| S/A10, STORAGE RACK SYSTEMS:   |          |              |                             |
| Test or Special Inspection   | Type     | Performed By | Code References and Notes   |
| <input type="checkbox"/> a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents. | Periodic | SI           | Table 1705A.13.7            |
| <input type="checkbox"/> b. Fabricated storage rack elements.  | Periodic | SI           | 1704A.2.5, Table 1705A.13.7 |

DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA  
DGS DSA 103-22 (Revised 12/01/2022) Page 12 of 17

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: School Name: School District:  
04-122194 Daktronics, Inc.  
DSA File Number: Pre Check Date Created: 2023-04-20 22:42:50  
Increment Number:

|   |  |
|---|--|
| CONCRETE/MASONRY:   |  |
| <input type="checkbox"/> 5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section. |  |

|  |  |
|--|--|
| WELDING:   |  |
| <input type="checkbox"/> 1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.  |  |
| <input type="checkbox"/> 2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the "Exception" language in Section 1705A.2.1); fillet welds shall not be ground flush.   |  |
| <input type="checkbox"/> 3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud. |  |
| <input type="checkbox"/> 4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).   |  |
| <input type="checkbox"/> 5. Manufactured components (e.g., Tolo, B-Line, Alcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).  |  |
| <input type="checkbox"/> 6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).   |  |
| <input type="checkbox"/> 7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) d4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 pif for distributed systems.  |  |

DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA  
DGS DSA 103-22 (Revised 12/01/2022) Page 15 of 17

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

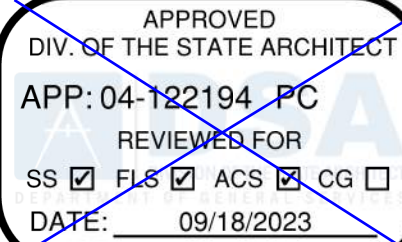


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08/07/2023

STRUCTURAL ENGINEER OF RECORD



PROJECT-SPECIFIC APPROVALS

PRE-CHECK (PC) DOCUMENT  
Code: 2022 CBC  
A separate project application for construction is required.



COLUMN IS A W-FLANGE.  
MAXIMUM FLANGE WIDTH IS 16".

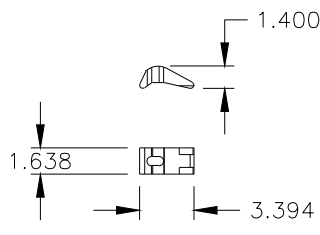
MINIMUM CLAMPS PER SECTION:  
2 COLUMN STRUCTURES: 8  
3 COLUMN STRUCTURES: 12  
INSTALL TORQUE: 40 FT\*LBS

MAXIMUM SECTION HEIGHT IS 10'-0"

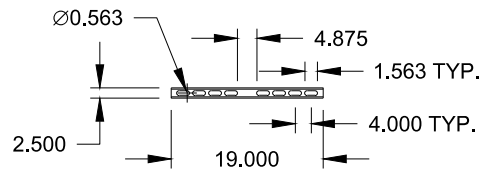
MAXIMUM SECTION WEIGHT  
-12 PSF

I-BEAM LIMITATIONS  
-MIN. FLANGE THICKNESS = 3/16"  
-MAX FLANGE THICKNESS = 3/4"  
-IF THE I-BEAM FLANGE THICKNESS IS  
GREATER THAN SPECIFIED, LONGER BOLTS  
WILL BE REQUIRED AT THE CUSTOMER'S  
EXPENSE. MAX LENGTH OF REPLACEMENT  
BOLT IS 3.5". MUST BE SS304 BOLTS.

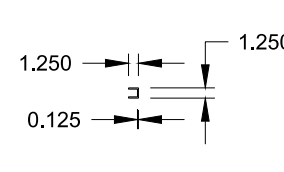
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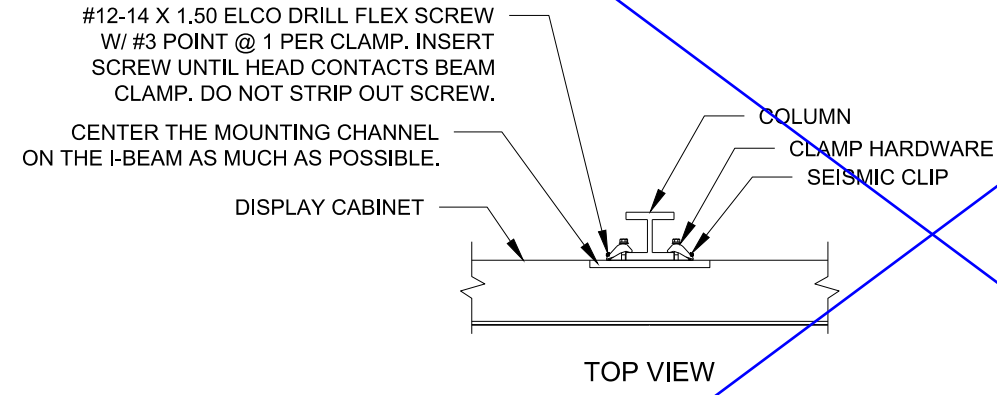
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AD PANEL CLAMP  
(6061-T6 ALUMINUM)



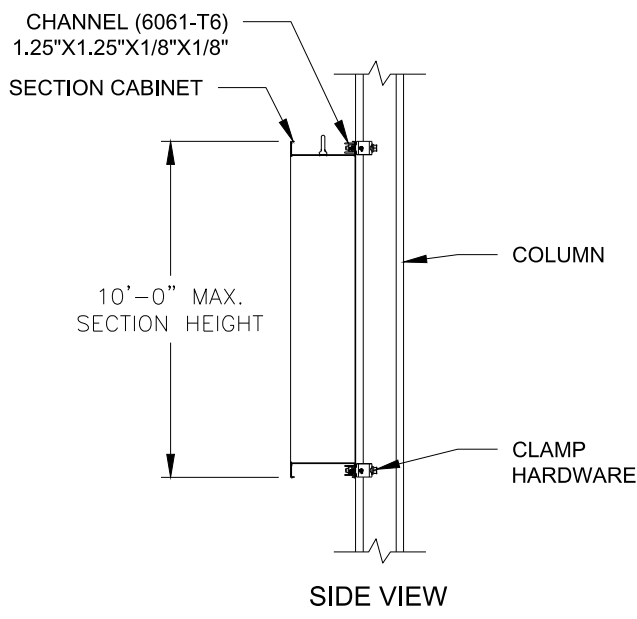
FRONT VIEW  
MOUNTING CHANNEL (6061-T6)  
FOR USE WITHOUT 3 1/4" UNISTRUT



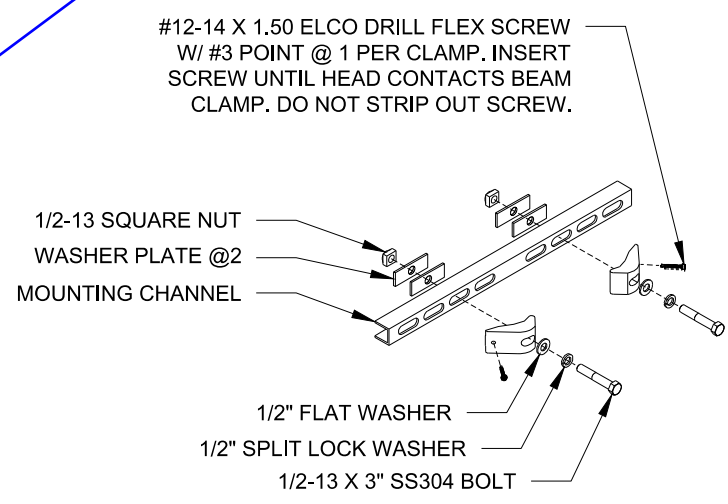
SIDE VIEW  
MOUNTING CHANNEL (6061-T6)  
FOR USE WITHOUT 3 1/4" UNISTRUT



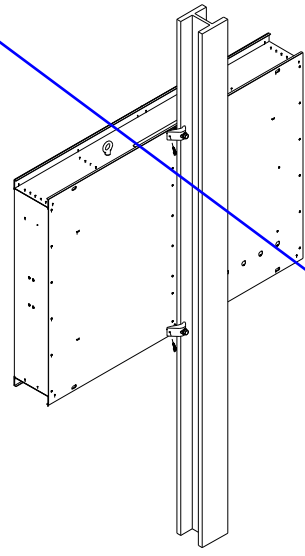
TOP VIEW



SIDE VIEW



EXPLODED VIEW



ISOMETRIC VIEW

COLUMN IS A W-FLANGE.  
MAXIMUM FLANGE WIDTH IS 16".

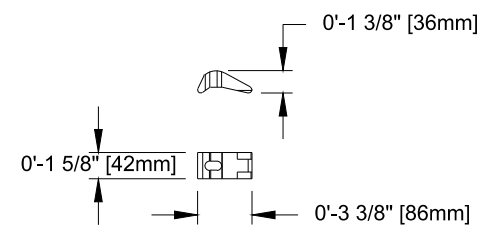
MINIMUM CLAMPS PER SECTION:  
2 COLUMN STRUCTURES: 8  
3 COLUMN STRUCTURES: 12  
INSTALL TORQUE: 40 FT\*LBS

MAXIMUM SECTION HEIGHT IS 2'-6"

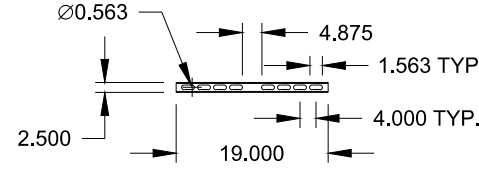
MAXIMUM SECTION WEIGHT  
-12 PSF

I-BEAM LIMITATIONS  
-MIN. FLANGE THICKNESS = 3/16"  
-MAX FLANGE THICKNESS = 3/4"  
-IF THE I-BEAM FLANGE THICKNESS IS  
GREATER THAN SPECIFIED, LONGER BOLTS  
WILL BE REQUIRED AT THE CUSTOMER'S  
EXPENSE. MAX LENGTH OF REPLACEMENT  
BOLT IS 3.5". MUST BE SS304 BOLTS.

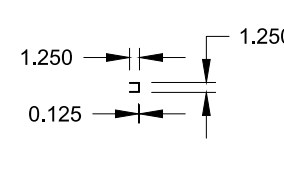
MOUNTING DETAIL 2



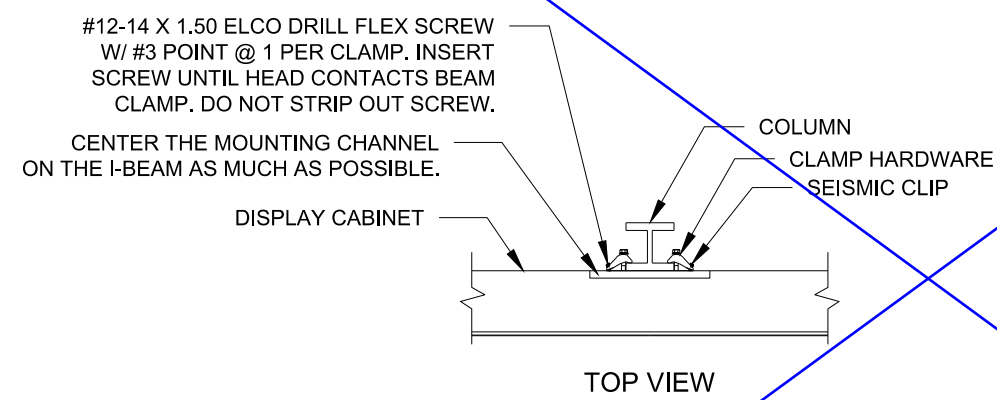
LAYOUT VIEW  
AD PANEL CLAMP  
(6061-T6 ALUMINUM)



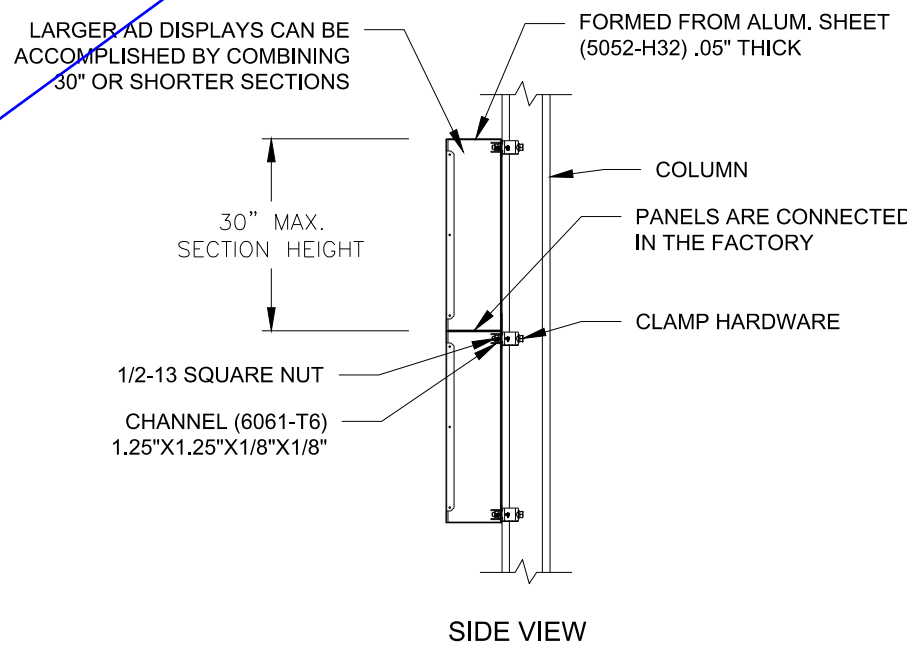
FRONT VIEW  
MOUNTING CHANNEL (6061-T6)  
FOR USE WITHOUT 3 1/4" UNISTRUT



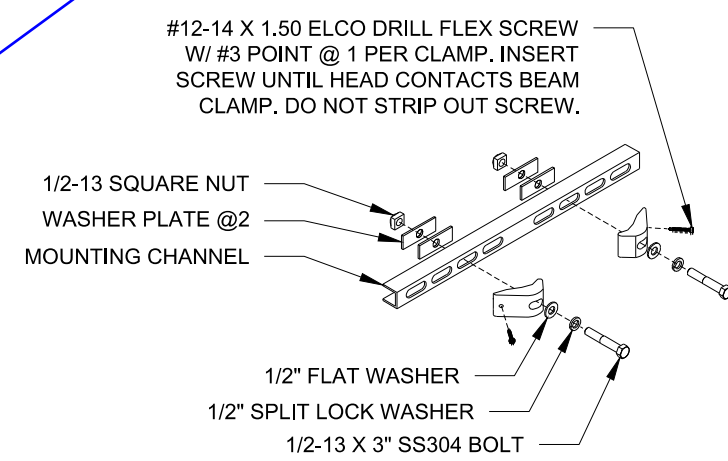
SIDE VIEW  
MOUNTING CHANNEL (6061-T6)  
FOR USE WITHOUT 3 1/4" UNISTRUT



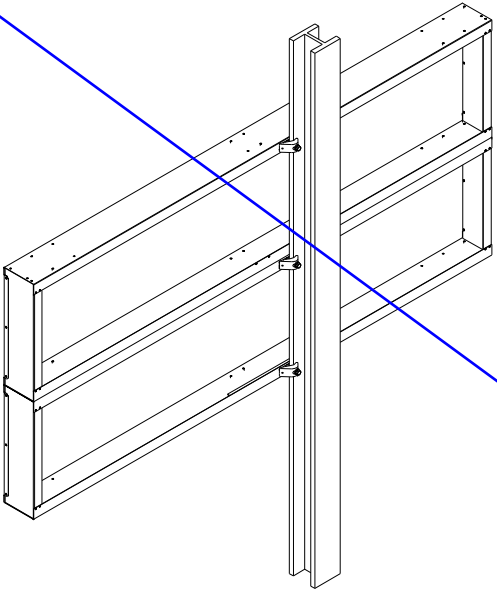
TOP VIEW



SIDE VIEW



EXPLODED VIEW



ISOMETRIC VIEW

COLUMN IS A W-FLANGE.  
MAXIMUM FLANGE WIDTH IS 16".

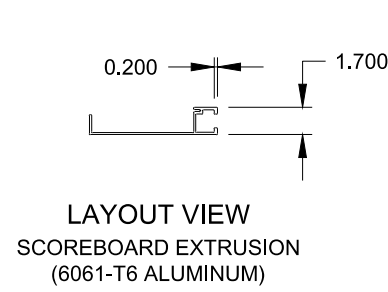
MINIMUM CLAMPS PER SECTION:  
2 COLUMN STRUCTURES: 8  
3 COLUMN STRUCTURES: 12  
INSTALL TORQUE: 40 FT\*LBS

MAXIMUM SECTION HEIGHT IS 6'-6"

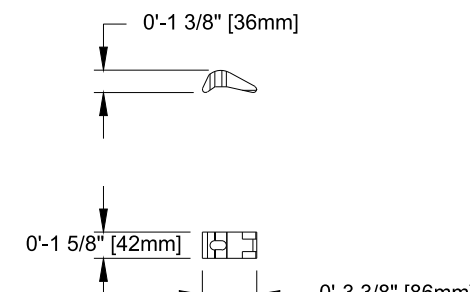
MAXIMUM SECTION WEIGHT  
-12 PSF

I-BEAM LIMITATIONS  
-MIN. FLANGE THICKNESS = 3/16"  
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-IF THE I-BEAM FLANGE THICKNESS IS  
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WILL BE REQUIRED AT THE CUSTOMER'S  
EXPENSE. MAX LENGTH OF REPLACEMENT  
BOLT IS 3.5". MUST BE SS304 BOLTS.

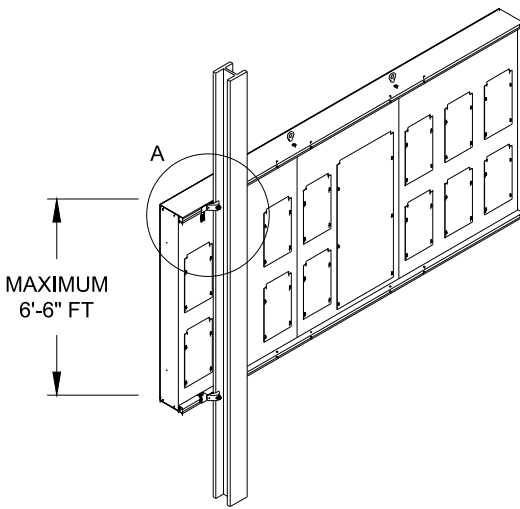
MOUNTING DETAIL 3



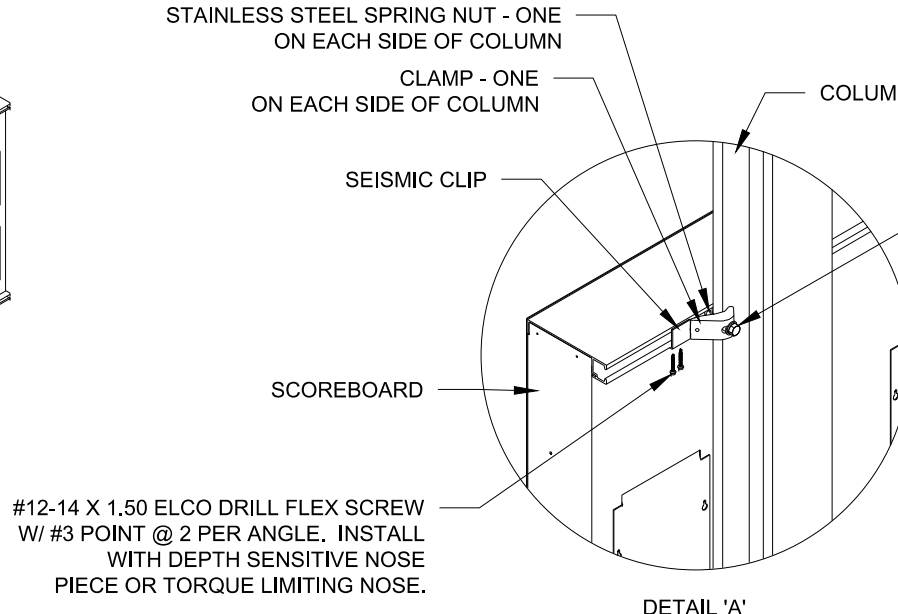
LAYOUT VIEW  
SCOREBOARD EXTRUSION  
(6061-T6 ALUMINUM)



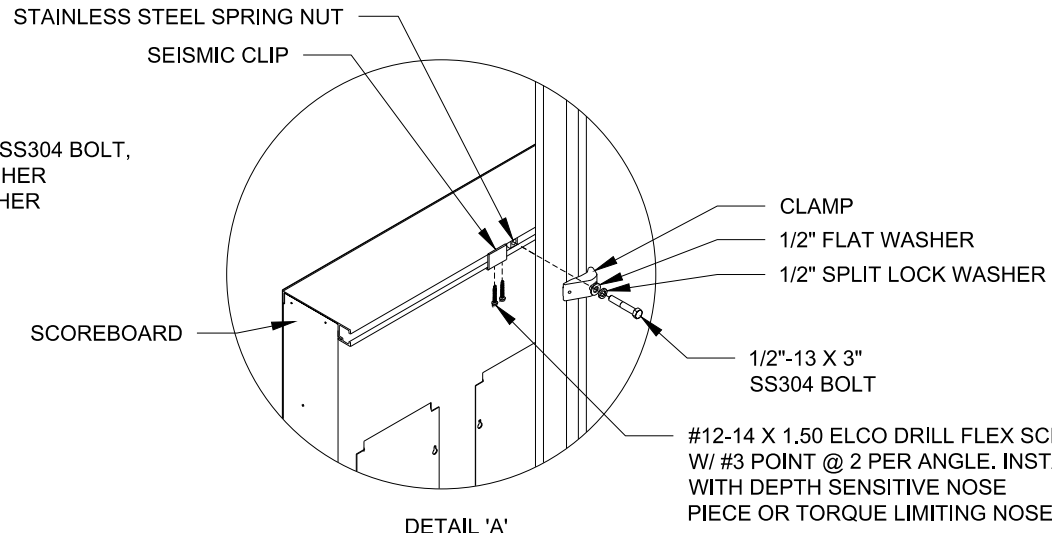
LAYOUT VIEW  
SCOREBOARD CLAMP  
(6061-T6 ALUMINUM)



ISOMETRIC VIEW



DETAIL 'A'



DETAIL 'A'  
EXPLODED VIEW

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR  
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08/07/2023

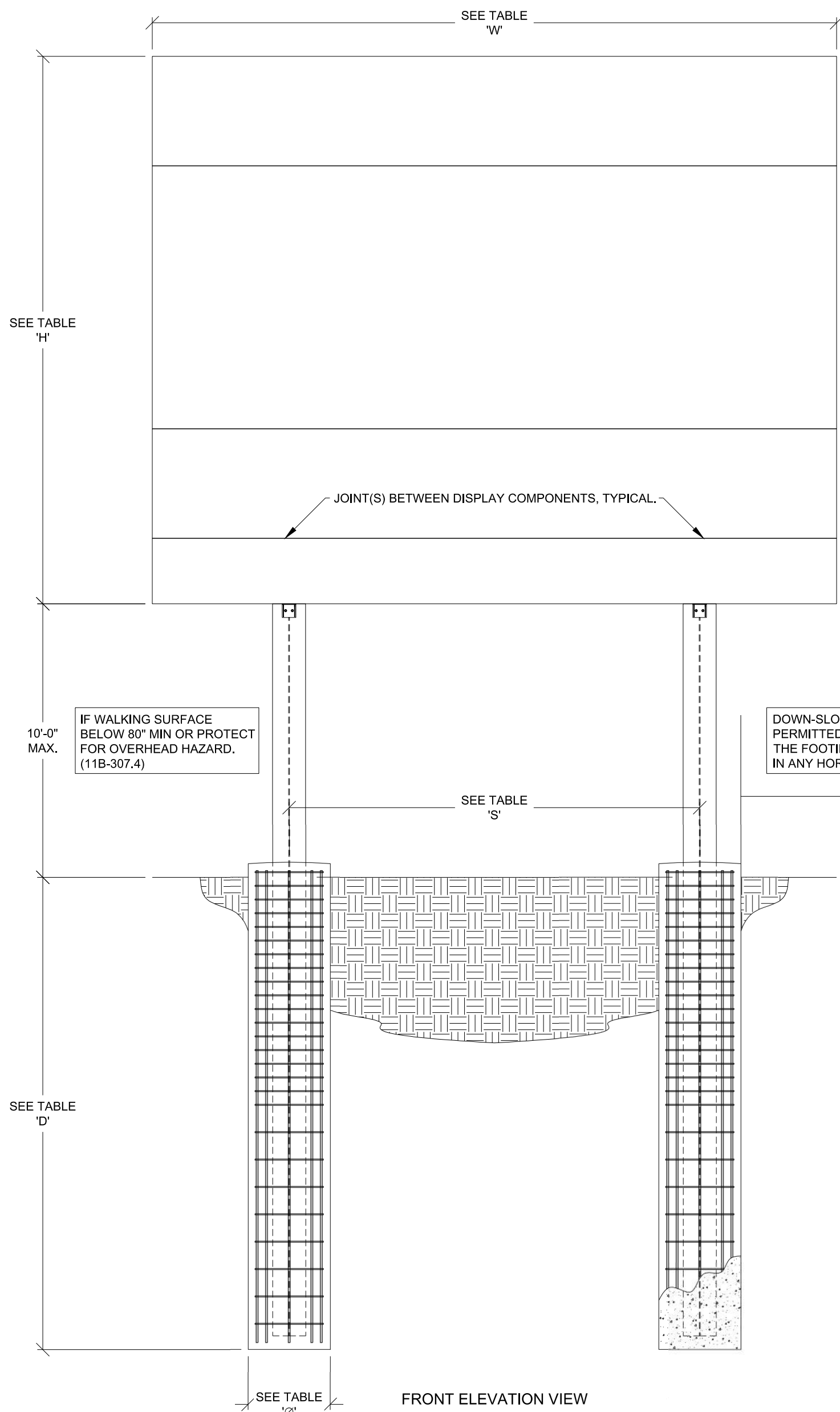
STRUCTURAL ENGINEER OF RECORD

APPROVED  
DIV. OF THE STATE ARCHITECT  
APP: 04-122194-PC  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒ CG ☐  
DATE: 09/18/2023

PROJECT-SPECIFIC APPROVALS

PRE-CHECK (PC) DOCUMENT  
Code: 2022 CBC  
A separate project application for construction  
is required.





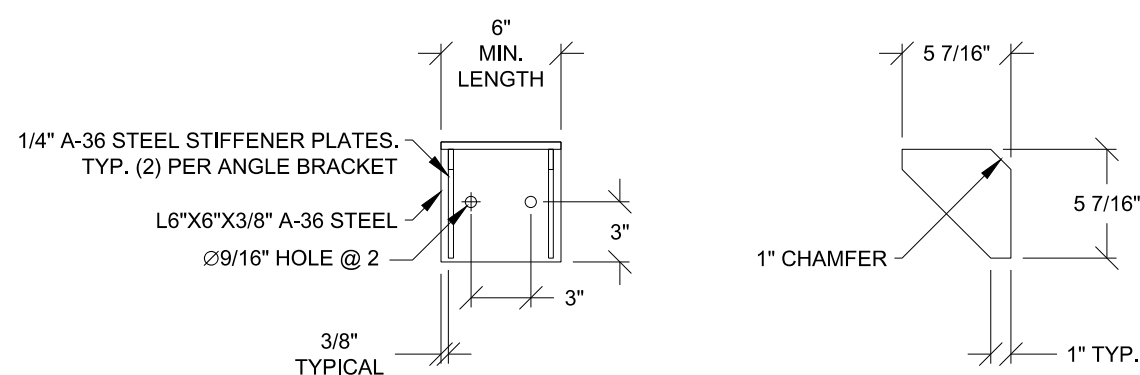
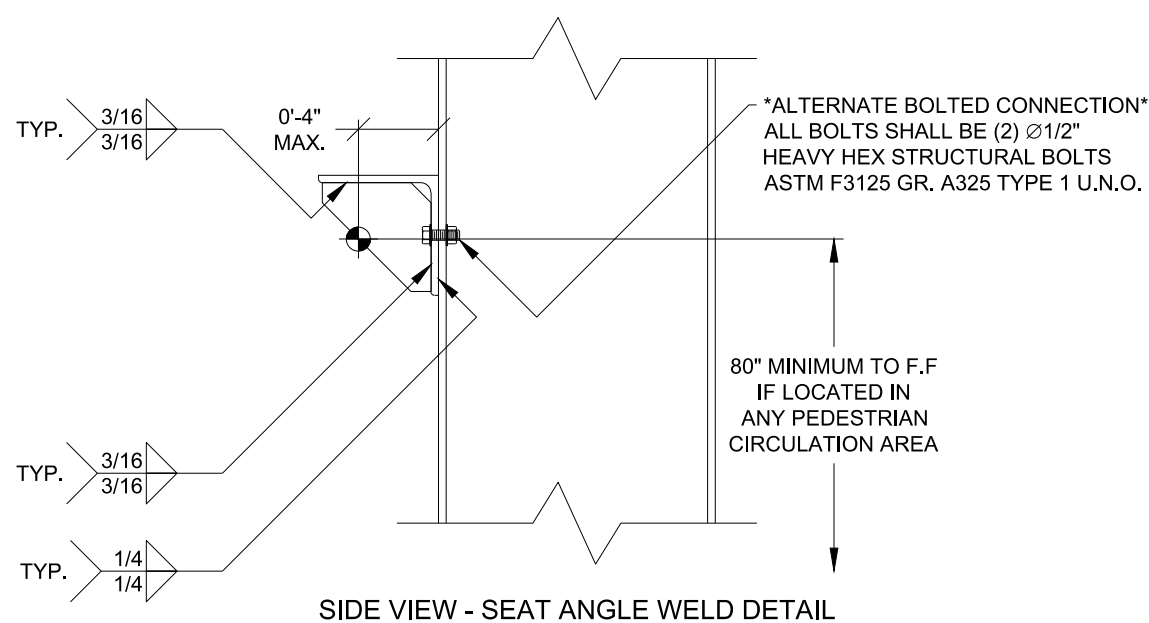
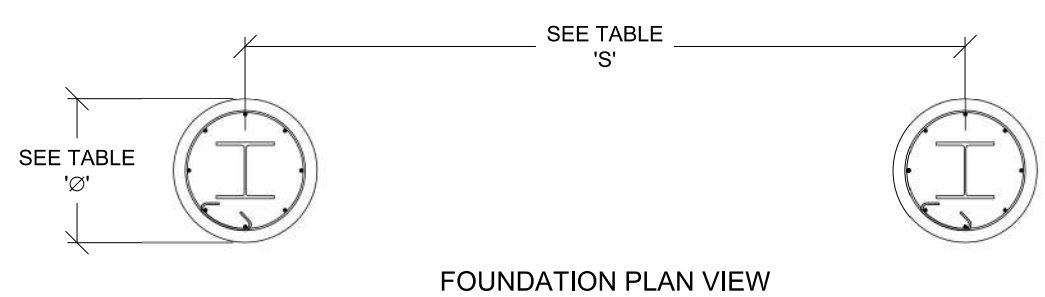
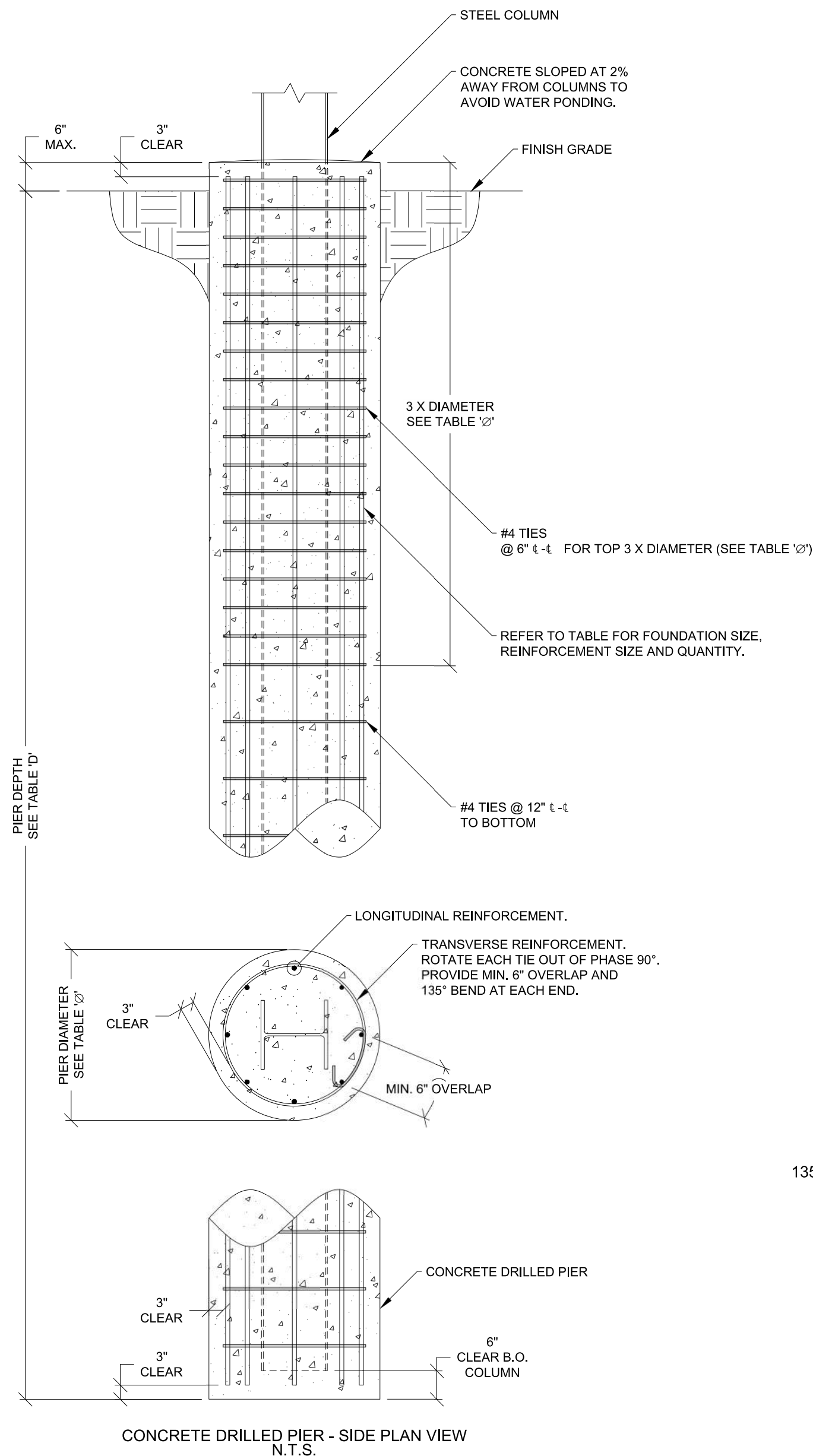
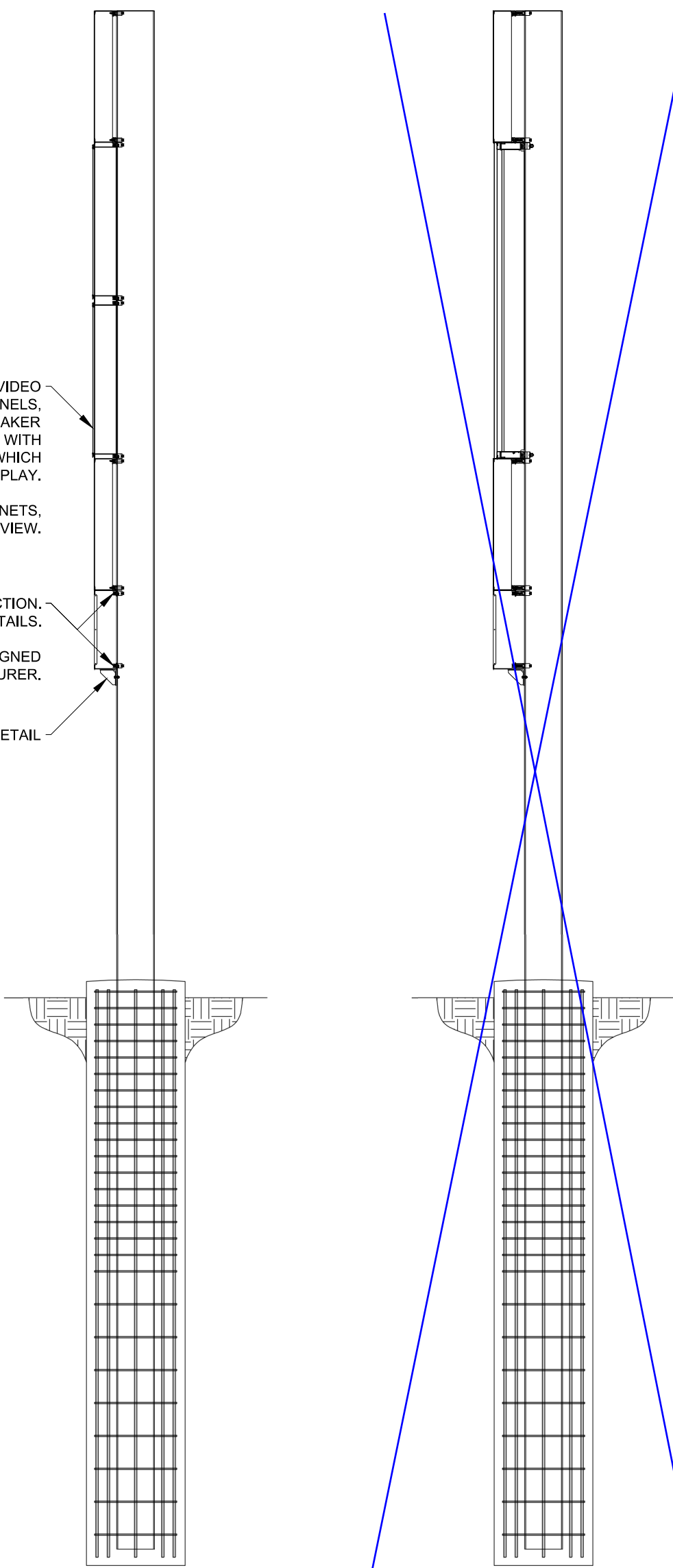
DISPLAY COMPOSED OF ANY COMBINATION OF VIDEO DISPLAYS, SCOREBOARDS, BACKLIT AD PANELS, NON-BACKLIT AD PANELS, TRUSSES, AND SPEAKER CABINET. EQUIPMENT CAN BE IN ANY ORDER, WITH THE EXCEPTION OF THE SPEAKER CABINET WHICH WILL ALWAYS BE LOCATED AT THE TOP OF DISPLAY.

DISPLAY CABINETS, SCOREBOARDS, SPEAKER CABINETS, AND SIGNS ARE NOT IN THE SCOPE OF DSA REVIEW.

CLAMPS PLACED AT BOTTOM AND TOP OF EACH SECTION. REFER TO SHEET 4 OR 5 FOR EQUIPMENT MOUNTING DETAILS.

CLAMPS AND FASTENERS WILL BE DESIGNED AND PROVIDED BY MANUFACTURER.

SEE SEAT ANGLE DETAIL



| TABLE A - STANDARD WIND REGIONS (100 MPH) |                        |                       |                           |                    |         |                     |                  |                             |      |      |                                   |                            |
|---|------------------------|-----------------------|---------------------------|--------------------|---------|---------------------|------------------|-----------------------------|------|------|-----------------------------------|----------------------------|
| CHECK OPTION                              | "MAX. HEIGHT 'H' (FT)" | "MAX. WIDTH 'W' (FT)" | MAX. DISPLAY WEIGHT (LBS) | "SPACING 'S' (FT)" | SIZE    | "DIAMETER 'Ø' (FT)" | "DEPTH 'D' (FT)" | "LONG. REINF. (QTY - SIZE)" | Kz   | Cf   | "DESIGN WIND PRESSURE (LBS/SQFT)" | SEISMIC "BASE SHEAR (LBS)" |
|   | 8.00                   | 16.00                 | 2386.00                   | 10.00              | W8X24   | 3                   | 8.25             | (7) #8                      | 0.88 | 1.73 | 28.19                             | 1680                       |
|   | 12.00                  | 16.00                 | 3154.00                   | 10.00              | W10X33  | 3                   | 10               | (7) #8                      | 0.92 | 1.71 | 29.11                             | 2380                       |
|   | 16.00                  | 16.00                 | 3922.00                   | 10.00              | W10X45  | 3                   | 11.5             | (7) #8                      | 0.95 | 1.69 | 29.83                             | 3080                       |
|   | 20.00                  | 16.00                 | 4690.00                   | 10.00              | W12X50  | 3                   | 13.5             | (7) #8                      | 0.98 | 1.68 | 30.58                             | 4060                       |
|   | 8.00                   | 20.00                 | 2770.00                   | 12.00              | W12X26  | 3                   | 9                | (7) #8                      | 0.88 | 1.73 | 28.19                             | 1960                       |
|   | 12.00                  | 20.00                 | 3730.00                   | 12.00              | W10X39  | 3                   | 10.75            | (7) #8                      | 0.92 | 1.69 | 28.83                             | 2800                       |
|   | 16.00                  | 20.00                 | 4690.00                   | 12.00              | W10X49  | 3                   | 12.75            | (7) #8                      | 0.95 | 1.68 | 29.61                             | 3500                       |
|   | 20.00                  | 20.00                 | 5650.00                   | 12.00              | W12X65  | 3                   | 15.5             | (7) #8                      | 0.98 | 1.67 | 30.28                             | 4620                       |
|   | 24.00                  | 20.00                 | 6610.00                   | 12.00              | W12X79  | 3                   | 18.25            | (7) #8                      | 1.01 | 1.66 | 31.03                             | 5740                       |
|   | 12.00                  | 25.50                 | 4522.00                   | 15.00              | W16X45  | 3                   | 11.75            | (7) #8                      | 0.92 | 1.68 | 28.55                             | 3800                       |
|   | 16.00                  | 25.50                 | 5746.00                   | 15.00              | W12X53  | 3                   | 14.75            | (7) #8                      | 0.95 | 1.66 | 29.31                             | 4200                       |
|   | 20.00                  | 25.50                 | 7670.00                   | 15.00              | W14X74  | 3                   | 17.75            | (7) #8                      | 0.98 | 1.66 | 30.03                             | 5600                       |
|   | 24.00                  | 25.50                 | 8894.00                   | 15.00              | W14X90  | 3                   | 21               | (7) #8                      | 1.01 | 1.64 | 30.66                             | 7000                       |
|   | 28.00                  | 25.50                 | 10118.00                  | 15.00              | W14X109 | 4                   | 26.25            | (12) #8                     | 1.03 | 1.64 | 31.33                             | 8540                       |
|   | 32.00                  | 25.50                 | 11342.00                  | 15.00              | W18X143 | 4                   | 22.75            | (12) #8                     | 1.05 | 1.64 | 31.97                             | 10780                      |
|   | 36.00                  | 25.50                 | 12566.00                  | 15.00              | W27X161 | 4                   | 25.5             | (12) #8                     | 1.07 | 1.64 | 32.56                             | 12740                      |

| TABLE B - SPECIAL WIND REGIONS (130 MPH) |                        |                       |                           |                    |         |                     |                  |                             |      |      |                                   |                            |
|--|------------------------|-----------------------|---------------------------|--------------------|---------|---------------------|------------------|-----------------------------|------|------|-----------------------------------|----------------------------|
| CHECK OPTION                             | "MAX. HEIGHT 'H' (FT)" | "MAX. WIDTH 'W' (FT)" | MAX. DISPLAY WEIGHT (LBS) | "SPACING 'S' (FT)" | SIZE    | "DIAMETER 'Ø' (FT)" | "DEPTH 'D' (FT)" | "LONG. REINF. (QTY - SIZE)" | Kz   | Cf   | "DESIGN WIND PRESSURE (LBS/SQFT)" | SEISMIC "BASE SHEAR (LBS)" |
|  | 8.00                   | 16.00                 | 2386.00                   | 10.00              | W12X30  | 3                   | 10               | (7) #8                      | 0.88 | 1.73 | 47.64                             | 1820                       |
|  | 12.00                  | 16.00                 | 3154.00                   | 10.00              | W12X40  | 3                   | 12.25            | (7) #8                      | 0.92 | 1.71 | 49.20                             | 2520                       |
|  | 16.00                  | 16.00                 | 3922.00                   | 10.00              | W12X53  | 3                   | 15.25            | (7) #8                      | 0.95 | 1.69 | 50.41                             | 3360                       |
|  | 20.00                  | 16.00                 | 4690.00                   | 10.00              | W12X72  | 3                   | 18.75            | (7) #8                      | 0.98 | 1.68 | 51.68                             | 4480                       |
|  | 8.00                   | 20.00                 | 2770.00                   | 12.00              | W10X33  | 3                   | 11               | (7) #8                      | 0.88 | 1.73 | 47.64                             | 2100                       |
|  | 12.00                  | 20.00                 | 3730.00                   | 12.00              | W14X48  | 3                   | 13.75            | (7) #8                      | 0.92 | 1.69 | 48.72                             | 2940                       |
|  | 16.00                  | 20.00                 | 4690.00                   | 12.00              | W14X61  | 3                   | 17.5             | (7) #8                      | 0.95 | 1.68 | 50.04                             | 3920                       |
|  | 20.00                  | 20.00                 | 5650.00                   | 12.00              | W14X82  | 3                   | 21.25            | (7) #8                      | 0.98 | 1.67 | 51.17                             | 5180                       |
|  | 24.00                  | 20.00                 | 6610.00                   | 12.00              | W14X99  | 4                   | 21               | (12) #8                     | 1.01 | 1.66 | 52.44                             | 6440                       |
|  | 12.00                  | 25.50                 | 4522.00                   | 15.00              | W14X53  | 3                   | 16               | (7) #8                      | 0.92 | 1.68 | 48.25                             | 3360                       |
|  | 16.00                  | 25.50                 | 5746.00                   | 15.00              | W16X67  | 3                   | 20.25            | (7) #8                      | 0.95 | 1.66 | 49.53                             | 4480                       |
|  | 20.00                  | 25.50                 | 7670.00                   | 15.00              | W14X90  | 4                   | 20.5             | (12) #8                     | 0.98 | 1.65 | 50.75                             | 6020                       |
|  | 24.00                  | 25.50                 | 8894.00                   | 15.00              | W24X117 | 4                   | 24.25            | (12) #8                     | 1.01 | 1.64 | 51.82                             | 7840                       |
|  | 28.00                  | 25.50                 | 10118.00                  | 15.00              | W14X145 | 4                   | 28               | (12) #8                     | 1.03 | 1.64 | 52.95                             | 9800                       |
|  | 32.00                  | 25.50                 | 11342.00                  | 15.00              | W30X173 | 5                   | 27.50            | (19) #8                     | 1.05 | 1.64 | 54.03                             | 12040                      |
|  | 36.00                  | 25.50                 | 12566.00                  | 15.00              | W33X201 | 5                   | 30.75            | (19) #8                     | 1.07 | 1.64 | 55.02                             | 14560                      |

(1) PER ASCE7 CASE B LOADING. CASE B LOADING = (CASE A LOADING) X (1.67). THE PRESSURES HAVE BEEN MULTIPLIED BY 0.6 (ASD LOAD FACTOR).

(2) 0.7V PER ASCE7-16 ASD EQUATIONS.

(3) COLUMN MAY BE SPLICED WITH A PREQUALIFIED CJP WELD.

(\*) MAY NEED LONGER BOLTS FOR CLAMP ATTACHMENTS.

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

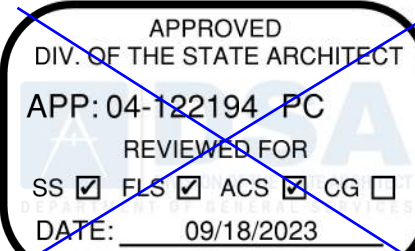


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08/07/2023

STRUCTURAL ENGINEER  
OF RECORD



PROJECT-SPECIFIC APPROVALS

PRE-CHECK (PC) DOCUMENT  
Code: 2022 CBC  
A separate project application for construction is required.

|  |   |  |  |
|--|---|--|--|
| PROJECT: 2022 CBC DSA PRE-CHECK DRAWINGS               | THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THE DRAWINGS ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE OR COPY ANY PARTS WITHOUT THE EXPRESS WRITTEN CONSENT OF VECTOR ENGINEERS, INC. OR ITS DESIGN SUBSIDIARIES. COPYRIGHT © 2022 VECTOR ENGINEERS, INC. | PROJECT: 2022 CBC DSA PRE-CHECK DRAWINGS | PROJECT: 2022 CBC DSA PRE-CHECK DRAWINGS |
| TITLE: SHEET 9: 2-COLUMN STRUCTURE W/ PIER FOUNDATIONS | DATE: 8 MAR 23  | DRAWN: INCHES (MILLIMETERS)              | SHEET 9                                  |
| SCALE: 1/8" = 1'-0"                                    | DO NOT SCALE DRAWING  | DESIGN: AKKURTEN                         | REV A                                    |
| DRAWN: SEASTIMA  | P2236   | FUNC: TYPE: REV                          | F-10-D                                   |
|  |   |  | 5224624                                  |