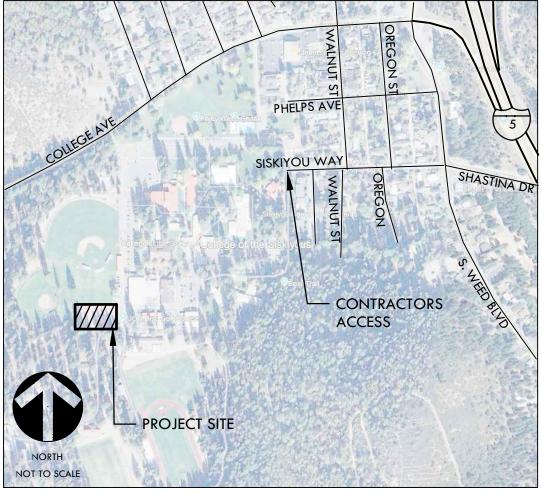
VICINITY MAP



SITE MAP

APPLICABLE CODES

1. 2022 CBC CHAPTER 35: PROVIDE ALL THE APPLICABLE/ADOPTED STANDARDS. WHERE A PARTICULAR STANDARD IS REFERENCED IN THE CODE BUT DOES NOT APPEAR AS AN ADOPTED STANDARD IT MAY STILL BE USED. APPLY ONLY THE PORTION OF THE STANDARD THAT IS APPLICABLE TO THE CODE SECTION WHERE THE STANDARD IS REFERENCED, NOT THE ENTIRE STANDARD.

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.

(2021 INTERNATIONAL BUILDING CODE VOLUMES 1-2)

2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE)

2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.

(2021 UNIFORM MECHANICAL CODE) 2022 CALIFORNIA PLUMBING CODE (CDC), PART 5, TITLE 24 C.C.R.

(2021 UNIFORM PLUMBING CODE) 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.

2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.

(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.

(2021 INTERNATIONAL EXISTING BUILDING CODE) 2021 CALIFORNIA "GREEN" BUILDING REQUIREMENTS OR CAL GREEN, PART 11, TITLE 24 C.C.R.

2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. 2022 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

LIST OF FEDERAL CODES AND STANDARDS (IF APPLICABLE) AMERICANS WITH DISABILITIES ACT (ADA), TITLE II OR TITLE III

FOR TITLE II: UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) 28 CFR 35.151(C) OR ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 35)

FOR TITLE III: ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36) 2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN

NOTE: TITLE II APPLIES TO PROJECTS FUNDED AND/OR USED BY STATE AND LOCAL GOVERNMENT SERVICES. TITLE III COVERS PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES. DEPENDING ON THE USE AND FUNDING, BOTH TITLE MAY APPLY TO THE PROJECT.

28 CFR 36.406

√FPA 13	AUTOMATIC SPRINKLER SYSTEMS	2022 EDITION
VFPA 14	STANDPIPE SYSTEMS	2019 EDITION
NFPA 1 <i>7</i>	DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 1 <i>7</i> A	WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
VFPA 20	STATIONARY FIRE PUMPS	2019 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS	2019 EDITION
VFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES)	2022 EDITION
VFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2023 EDITION
VFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2022 EDITION
SMF 17 1	FIEVATOR STANDARD	2019 FDITION

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2022 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

ADA STANDARD FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)

- 2. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION 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 OWNER REPRESENTATIVE BEFORE PROCEEDING
- 3. ALL EXISTING FIRE EXTINGUISHING SYSTEMS ARE IN COMPLIANCE WITH UL 300, CBC 904.11, CFC 904.11.

CONSTRUCTION DRAWINGS FOR COLLEGE OF THE SISKIYOUS VOLLEYBALL FACILITY

800 College Ave. Weed, CA 96094 VERDE DESIGN, INC. PROJECT NO. 2414500

PREPARED BY



ANDSCAPE ARCHITECTURE CIVIL ENGINEERING SPORT PLANNING & DESIGN

SCOPE OF WORK

SCOPE OF WORK TO INCLUDE, BUT NOT LIMITED TO, INSTALLATION OF NEW PERIMETER EDGING, FENCE POST, SAND, AND VOLLEYBALL EQUIPMENT FOR A NEW VOLLEYBALL FACILITY WITHIN THE

GENERAL NOTES

- PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE & FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT 15. OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL NOTIFY THE DISTRICT OF ANY CONDITIONS, REQUIRING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS.
- 2. NO CONSTRUCTION SHALL COMMENCE WITHOUT THE OFFICIAL NOTICE TO PROCEED
- 3. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & 17. VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL OF THE EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY NEW FACILITIES IN THIS CONTRACT. VERIFY ACTUAL LOCATION AND DEPTH OF UTILITIES, AND REPORT POTENTIAL CONFLICTS TO THE DISTRICTPRIOR TO EXCAVATING FOR NEW FACILITIES.
- 4. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT, IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES CAUSED BY ITS OPERATIONS. 19.
- 5. THE CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS WITHIN SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ALL DAMAGED AREAS TO THEIR ORIGINAL CONDITION OR BETTER AT CONTRACTOR'S EXPENSE TO THE SATISFACTION
- 6. DIMENSIONS AND LOCATIONS OF EXISTING FACILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DISTRICT.
- 7. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA FIRE CODE AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, AS WELL AS ADAPTED STANDARDS.
- 8. ALL NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO, THE WRITTEN SPECIFICATIONS AND DETAILS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
- 9. THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT SPECIFICATIONS PUBLISHED IN BOOK FORM. COMBINED, THEY ARE HEREIN REFERRED TO AS THE "CONTRACT DOCUMENTS".
- 10. DIMENSIONS ON WORKING DRAWINGS TAKE PRECEDENCE OVER MEASURED
- ELEMENTS. CONTRACTOR SHALL NOT SCALE DRAWINGS. 11. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
- 12. CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AND KEEP MUD AND DEBRIS 24. OFF THE PUBLIC RIGHT-OF-WAY AT ALL TIMES.
- 13. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.

- 14. ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE DISTRICTPRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISTURBING STUDENTS OR TEACHERS DURING SCHOOL HOURS. ANY DISRUPTION OF THE UTILITIES MUST BE COORDINATED AND APPROVED BY THE DISTRICTAND INSPECTOR OF RECORD PRIOR TO COMMENCING WORK.
- 16. ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
- THE PLANS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER CONTROL/OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, THE CONTRACTOR SHALL PROVIDE AN ITEM WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN PRICE.
- ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.
- THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE, THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES,
- NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK AND IS SUBJECT TO REJECTION AND REPLACEMENT. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS.
- 21. CONSTRUCTION MATERIALS STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED SO AS TO PREVENT DAMAGE OR DETERIORATION UNTIL USED. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK.
- 22. ALL EQUIPMENT SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL
- 23. CONTRACTOR SHALL PERFORM THEIR CONSTRUCTION AND OPERATIONS IN A MANNER WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE STORM DRAIN SYSTEM. TO ENSURE COMPLIANCE, THE CONTRACTOR SHALL IMPLEMENT THE APPROPRIATE BEST MANAGEMENT PRACTICE (BMP) AS OUTLINED IN THE BROCHURES ENTITLED "BEST MANAGEMENT PRACTICE FOR THE CONSTRUCTION INDUSTRY" ISSUED BY THE CALIFORNIA STORM WATER QUALITY ASSOCIATION, NONPOINT SOURCE POLLUTION CONTROL PROGRAM, TO SUIT THE CONSTRUCTION SITE AND JOB CONDITION. THE CONTRACTOR SHALL PRESENT THEIR PROPOSED BMP AT THE PRECONSTRUCTION MEETING FOR DISCUSSION AND APPROVAL.
- CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING PER CONTRACT DOCUMENTS TO SERVE LIMIT OF WORK AREAS. FENCING MAY BE ADJUSTED DURING CONSTRUCTION BASED ON CONSTRUCTION SEQUENCE OR THE DISTRICT'S DIRECTION.
- WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS 25. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED.

CONTACT INFORMATION

ORGANIZATION	NAME	<u>PHONE</u>
OWNER COLLEGE OF THE SISKIYOUS	VERONICA RIVERA	(530) 938-5345
CIVIL ENGINEER/ LANDSCAPE ARCHITECT VERDE DESIGN INC.	DEVIN CONWAY WES DOWNING	(408) 850-3420 (707) 800-4204

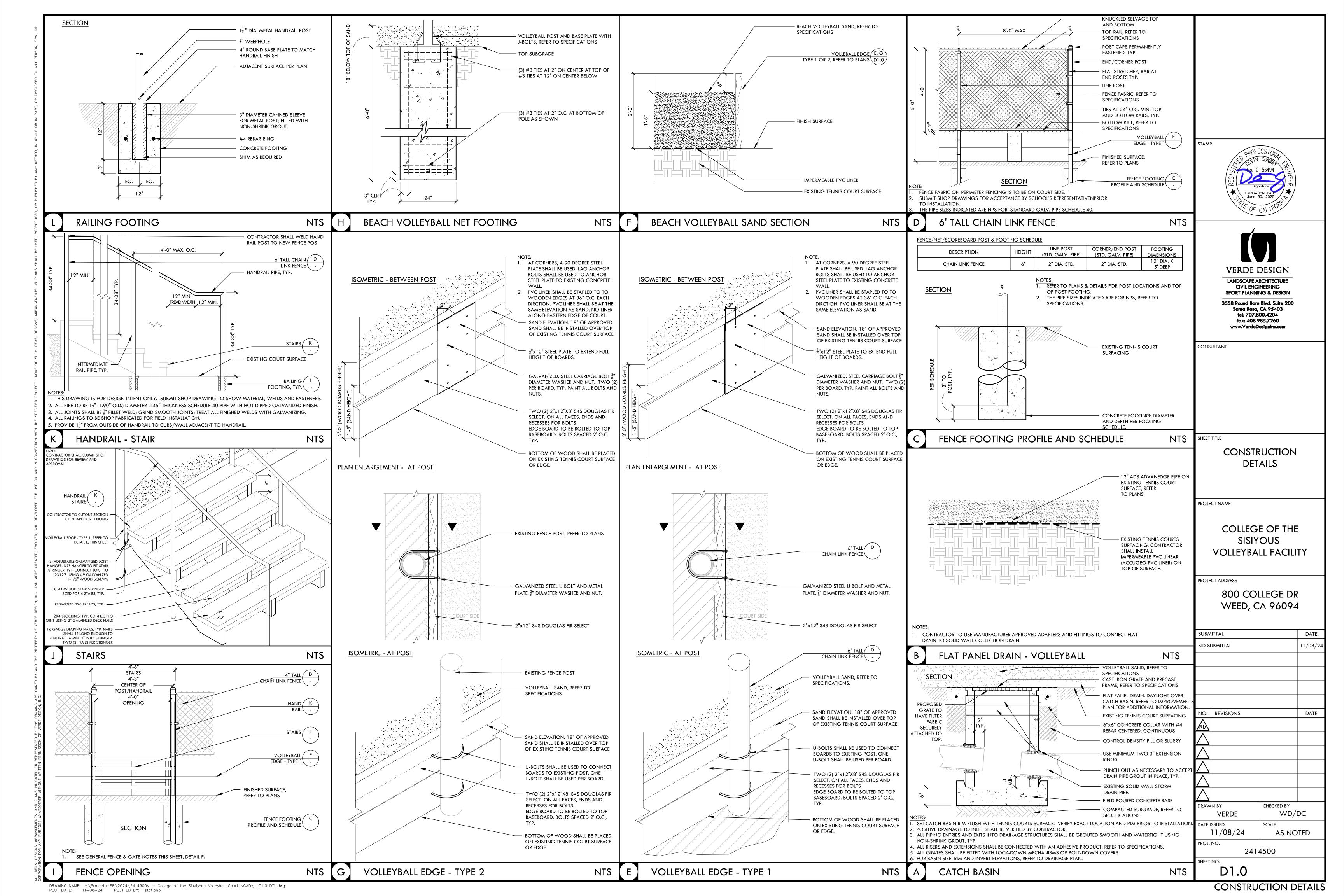
SHEET INDEX (5 Sheets)

SPECIFICATIONS **SPECIFICATIONS**

D2.0

SHEET NO.	SHEET DESCRIPTION
CIVIL/LANDSCAPE	
-	COVER SHEET
L1.0	IMPROVEMENT PLAN

	IMPROVE	VENTS LEGEND	IMPROVEMENTS NOTES	
	SYM DESCRIPTION DT EXISTING STORM DRAIN LINE. LINE TO REMAIN AND BE PROTECTED	L REF SYM DESCRIPTION DTL R	THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF	
	TOS TOP OF COURT SURFACE	BEACH VOLLEYBALL SAND (OWNER FURNISHED, CONTRACTOR INSTALLED), SAND SHALL BE INSTALLED OVER EXISTING TENNIS	ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS. 2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF	
	(E) EXISTING	COURTS SURFACING. CONTRACTOR SHALL FILL EXISTING TENNIS COURTS CRACKS WITH PLASTER SAND MATERIAL, THEN LAY DOWN IMPERMEABLE PVC LINER (ACCUGEO PVC LINER), AND FINALLY	I ITILITIES STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE	
	CB CATCH BASIN	INSTALL VOLLEYBALL SAND. (1,233 CY)	REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON	
	INV INVERT	TATCH BASIN (CB), SIZE PER PLAN 12" FLAT PANEL PIPING (828 LF) B D1.6		
	RIM RIM ELEVATION	VOLLEYBALL EDGE - TYPE 1 WITH 6 FT TALL CHAIN LINK FENCE (242 LF)	OF THE DE REOF OF TODE I OR REF THRIFT OF THE PERSON OF TH	STAMP
		VOLLEYBALL EDGE - TYPE 2 (334 LF) On the second se		No. C-56494
		BEACH VOLLEYBALL POST & FOOTING, REFER TO SPECIFICATIONS FOR NETTING INFORMATION	1 THE CONTRACTOR CHAIL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING	Signature Signature
		VOLLEYBALL EDGE PADDING (575 LF), REFER TO SPECIFICATIONS.	DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S	EXPIRATION DATE: June 30, 2025
		3 EXISTING CONCRETE BALL WALL. WALL SHALL REMAIN AND BE PROTECTED.	REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.	OF CALT
		EXISTING COURT FENCING AND GATES. FENCING AND GATES SHALL REMAIN AND BE PROTECTED.		
		5 FENCE OPENING	6. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.	
		6 STAIRS		VERDE DESIGN LANDSCAPE ARCHITECTURE CIVIL ENGINEERING
				CIVIL ENGINEERING SPORT PLANNING & DESIGN 3558 Round Barn Blvd. Suite 200
				Santa Rosa, CA 95403 tel: 707.800.4204 fax: 408.985.7260
				www.VerdeDesignInc.com
				CONSULTANT
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				CUEST TITLE
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	. /	SD		VOLLEYBALL FACILITY
STORM POINT OF	SD		BELOW RIM	PROJECT ADDRESS
CONNECTION $\left \begin{array}{c} \downarrow \\ \downarrow \end{array} \right $	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		800 COLLEGE DR WEED, CA 96094
		····	CONTRACTOR SHALL ADD WALL	
SD S		· · · · · · · · · · · · · · · · · · ·	WALL PADDING TO BE ATTACHED TO WALL USING A Z-CHANNEL CONNECTION. REFER TO	SUBMITTAL DA BID SUBMITTAL 11/0
12" CB #1 RIM TOS INV +/- 3'-8" BELOW	 	· · · · · · · · · · · · · · · · · · ·	INFORMATION.	DID GODMITTAL 1170
TO VERIFY IN FIELD)			3	
FLAT PANEL PIPE SHALL DAYLIGHT ON TOP OF NEW CATCH BASIN USING FLAT PANEL FLAT OUTLET				
(MODEL 1432AN)				NO. REVISIONS DA
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				DRAWN BY WD WD/DC
				DATE ISSUED SCALE 11/08/24 1"=10'-0"
4 L			4	PROJ. NO. 2414500
			NORTH 0' 5' 10' 20' 30'	2414500 SHEET NO.



A. Concrete Mix: Mix design and certified compressive strength test report for each concrete strength and type indicating additives and maximum aggregate size required. Report shall MISCELLANEOUS PAVING AND SURFACING Type II Steel ASTM F1043 (50 KSI) Outside Diameter (OD) in inches Type 1 Steel ASTM F1083 (30 KSI) prepared and certified by the ready-mix concrete supplier PART 1 - GENERAL 1.05 INFORMATIONAL SUBMITTALS 1.68 1.315 1.35 1.01 SUMMARY A. Mill Certificates and Certifications for reinforcing 1.660 2.27 1.84 A. Section Includes: Miscellaneous paving surfacing as shown on the Drawings including, but is not limited to, the following: B. Delivery tickets for each load of concrete delivered to the site 1.900 2.72 2.28 Beach volleyball sand. 2.375 C. NRMCA Certificate of Conformance: Submit a copy of the NRMCA Certificate of Conformance to the District's Testing Agency for the ready-mix plant, equipment, and mix trucks that will support the conformance of the District's Testing Agency for the ready-mix plant, equipment, and mix trucks that will support to the District's Testing Agency for the ready-mix plant, equipment, and mix trucks that will support to the District's Testing Agency for the ready-mix plant, equipment, and mix trucks that will support to the District's Testing Agency for the ready-mix plant, equipment, and mix trucks that will support to the District's Testing Agency for the ready-mix plant, equipment, and mix trucks that will support to the District's Testing Agency for the ready-mix plant, equipment, and mix trucks that will support to the District's Testing Agency for the ready-mix plant, equipment, and mix trucks that will support to the District's Testing Agency for the Properties and the District's Testing Agency for the Properties and the District's Testing Agency for the Properties and the District Testing Agency for the District Testing Agency for the Properties and the District Testing Agency for the District Testing 3.65 3.12 B. Related Requirements: 2.875 5.79 4.64 1. Section 32 33 00 - Site Furnishings 5.71 D. Record of pre-installation meeting. 3.500 7.58 1.02 ADMINISTRATIVE REQUIREMENTS 4.000 9.11 1.06 QUALITY ASSURANCE A. Submittal Procedures: Action and Informational Submittals shall be submitted in accordance with applicable Submittal Procedures. 4.500 10.79 A. Codes and Standards: Comply with the applicable provisions of the following codes, specifications and standards, except where more stringent requirements are shown or specified: 6.625 18.97 6. California Building Code, Title 24, Part 2, Chapter 19A - Concrete. 1. Coordinate applicable subgrade preparations, installations of base course materials, and all other work with work of this Section to insure a proper, timely installation. 8.625 28.55 7. American Concrete Institute (ACI): a. ACI 301: Specifications for Structural Concrete for Buildings 1.03 ACTION SUBMITTALS b. ACI 303.1: Standard Specification for Cast-In-Place Architectural Concrete. 1. Unless specified otherwise, steel fence fittings and accessories shall comply with ASTM F626 and be galvanized in accordance with ASTM A53, with zinc weights A. Samples c. ACI 303R: Guide to Cast-In-Place Architectural Concrete. per Table 1 of ASTM A153. 1. Unless otherwise specified, submit 1-quart size samples of the following: d. ACI 318: Building Code Requirements for Reinforced Concrete. 2. Tension Wire: 7-gauge (0.177 inch diameter) coil spring steel with finish to match fabric. STAMP e. ACI 614: Recommended Practice for Measuring, Mixing, and Placing Concrete. 3. Tie Wires: 9 gauge (0.148 inch diameter) steel with finish to match fabric. 1.04 QUALITY ASSURANCE 3. Concrete Reinforcing Steel Institute, Manual of Standard Practice. 4. Caps: Provide weather tight closure cap for each post and exposed ends of framing. Provide line post caps with loop to receive wire or top rail with finish to 4. NRMCA - National Ready-Mix Concrete Association, Quality Control Manual - Section 3: Certification of Ready Mixed Concrete Production Facilities. A. Materials Source: Sources of materials specified herein shall not be changed during course of work without review and written acceptance by the Owner's Representative. B. Contractor shall be responsible for quality of concrete in place and shall bear burden of proof that concrete as placed meets minimum requirements. 5. Tension Bars: Hot-dip galvanized steel with minimum length 2 inches less than full height of fabric, minimum cross-section of 3/16 inch by 3/4 inch and minimum PART 2 - PRODUCTS of 1.2 ounce zinc coating per sq. ft. of surface area. C. Qualifications: 2.01 SAND MATERIALS 6. Tension Clips: Minimum 3/4 inch wide 12-gauge (.105 inch) thick with finish to match fabric. 1. Contractors Design Laboratory: When mixes are proportioned by trial batch method, engage a laboratory conforming to ASTM E329 and under direction of a civil engineer licensed in the 7. Truss Rods: Hot dipped galvanized steel rods with a minimum diameter of 5/16 inch (7.9 mm). A. Beach Volleyball Sands 2. Contractor's Testing Agency: An independent testing agency meeting "Recommended Requirements for Independent Laboratory Qualification," published by American Council of Independent 1. Material shall be dust free and subangular / rounded shape and not sourced from a crushed rock quarry. Sand shall meet the following gradation requirements: Laboratories and basic requirements of ASTM E329, "Use in the Evaluation of Testing and Inspection Agencies as Used in Construction." 2.03 ADDITIONAL MATERIALS AND COMPONENTS Percent Retained by A. Concrete: Minimum Class B, 28-day compressive strength of 2,500 psi as specified in Section 32 32 15 Landscape Concrete. Weight 1. Testing may include slump tests and securing samples of concrete, cement, aggregates or other materials for testing. Applicable materials shall be provided by the Contractor at no addition 1 mm (#18) 0-6 B. Baseboards: Surfaced Kiln Dried Douglas Fir painted with a primer coat and two coats of durable exterior enamel paint. 0.5 mm (#35) Min of 80% / 1. Color: To be selected by Owner's Representative. E. Lines and levels shall be established by a licensed surveyor or registered civil engineer. 0.25 mm (#60) Nax of 92% combined 2. Install as shown on the Drawings. *7-*18 0.15 mm (#100) F. District's Representative will review all forms and joint layout prior to casting concrete. 3. Galvanized or Stainless Steel Bolts and nuts shall be painted the same color as the boards after installation. 0.05 mm (#200) Max 2% 1.08 FIELD CONDITIONS <0.05 mm (retained in pan) C. Galvanizing-Repair Paint: Minimum 82 percent zinc-dust-content paint for regalvanizing welds in galvanized steel; "Z.R.C. Cold Galvanizing Compound" by ZRC A. Maintain control of concrete dust and water. Do not permit adjacent areas to be contaminated. Suppliers: Worldwide, "Cold Galv Primer" by Valspar, or equal. a. TMT Enterprises, Attn Matt Moore, ph: 408-432-9040 VERDE DESIGN B. For protection of existing trees to remain, see Arborist Report on the Drawings and Section 32 01 90 - Existing Tree Protection and Maintenance. 2.04 FABRICATION b. Volleyball USA, ph: 877-470-8415 C. Maintain control of concrete dust and water. Do not permit adjacent areas to be contaminated LANDSCAPE ARCHITECTURE c. Graniterock, Don Barrett, ph: 831-768-2309 A. Welding: Welds shall be shop fabricated prior to galvanizing unless otherwise acceptable to Owner's Representative and were field welding is unavoidable. CIVIL ENGINEERING **SPORT PLANNING & DESIGN** PART 2 - PRODUCTS B. Repair zinc coating damaged after fabrication with specified repair paint in accordance with ASTM A780, AHDGA publication, "Recommended Practice for PART 3 - EXECUTION Touch-up of Damaged Galvanized Coatings," and manufacturer's recommendations for application of repair paint. 2.01 BASE MATERIALS 3558 Round Barn Blvd. Suite 200 3.01 BEACH VOLLEYBALL SAND Santa Rosa, CA 95403 C. Steel Framework: System shall comply with the following minimum requirements. A. Aggregate: Class 2, 3/4-inch maximum aggregate base, conforming to Section 26 of California Department of Transportation (CDT) "Standard Specifications." A. Spread sand to depth specified on Drawings. tel: 707.800.4204 1. Posts, Rails, Braces, and Gate Frames: Type I galvanized steel pipe as specified. fax: 408.985.7260 2.02 REINFORCING B. Rake then roll sand with water roller to establish firm, even surface at specified elevation 2. End, Corner, and Pull Posts for the Following Fabric Heights: As noted on the Drawings. www.VerdeDesignInc.com 3. Line or Intermediate Posts for the Following Fabric Heights: As noted on the Drawings. 3.02 TOLERANCES 1. Reinforcing Steel: Deformed billet steel bars, ASTM A615, Grade 60 for No. 5 and larger, Grade 40 for No. 4 and smaller. 4. Top, Bottom and Horizontal Intermediate Rails: 1.66 inch outside diameter (1-5/8 inch outside diameter). A. Vertical deviation from specified lines, grades, and detail cross sections shall not exceed 0.04 foot for all surfacing specified in this Section. 2. Tie Wire: ASTM A82, black annealed CONSULTANT 3. Spacers, Bar Supports, and Other Accessories: In accordance with ACI 315. Galvanize metal items exposed to moisture, or use approved other non-corrodible, non-staining supports. PART 3 - EXECUTION **SECTION 32 31 13** 4. Smooth Dowels for Expansion Joints: ASTM A615, Grade 40 smooth, billet-steel bars, shop painted with iron-oxide zinc-chromate primer. 3.01 PREPARATION CHAIN LINK FENCING B. Reinforcing steel shall be cut and bent cold to exact lengths and shapes to comply with Drawings, reviewed shop drawings, and referenced codes and standards. A. Prior to excavation, layout all fencing locations for review and acceptance by Owner's Representative. C. Comply with the additional requirement shown on the Drawings. PART 1 - GENERAL B. Do not begin installation and erection before final grading is completed, unless otherwise permitted. 2.03 CONCRETE MATERIALS 1.01 SUMMARY A. Portland Cement: ASTM C150, Type II, low alkali brand, with a proven history of successful use with proposed aggregates. Cement shall be same brand and from same source throughout t A. Sectino Includes: chain link fencing improvements as shown on the Drawings including, but not necessarily limited to, the following: A. General: Erect chain link fence and related items in accordance with ASTM F567, in strict conformance with reviewed and accepted shop drawings, and 1. Galvanized chain link fabric, posts, gates, and hardware. B. Hardrock Aggregate: ASTM C33. manufacturer's recommendations. B. Related Requirements: C. Water: Clean, potable concrete mixing water free from injurious amounts of salts, oils, acids, alkalis, organic materials or other deleterious matter. B. Set all posts straight, plumb, and true to line. 1. Section 32 33 00 - Site Furnishings 1. Set line posts at equal spacing not to exceed 8 feet on centers, in concrete footings not less than 10 inches around and 36 inches deep. 2.05 CONCRETE MIXING 1.02 REFERENCES 2. Set terminal posts at corners, ends, and gates, in concrete footings not less than 12 inches around and 36 inches deep. SHEET TITLE A. General: 3. Slope tops of concrete footings so as to provide drainage away from posts. A. American Society for Testing and Materials (ASTM): 1. Mix designs for concrete shall be Contractor-designed at its expense. Designs shall be prepared by a qualified agency approved by the District's Representative. 1. A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless. 2. Use admixtures according to manufacturer's written instructions. C. Excavation: Drill or hand-excavate holes for posts to diameter and spacing indicated in firm, undisturbed or compacted soil. 3. Ensure equipment and plant will afford accurate weighing, minimize segregation, and will efficiently handle materials. 2. A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products. 1. Unless noted otherwise, excavate holes for each post to minimum diameter recommended by fence manufacturer, but not less than 4 times largest cross section **SPECIFICATIONS** 3. A392 - Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric. 2. Unless noted otherwise, excavate hole depths approximately 3 inches lower than post bottom, with bottom of posts set not less than 36 inches below finish grade 4. F567 - Standard Practice for Installation of Chain-Link Fence." B. Minimum ultimate compression strength of concrete at 28 days is as follows 5. F1043 - Standard Specification for Strength and Protective Coatings on Steel Industrial Chain Link Fence Framework. Maximum slump Size of aggregate Cement (# of 94 lb. sacks per yard) W/C Ratio 6. F1083 - Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures. D. Setting Posts: Center and align posts in holes 3 inches above bottom of excavation. Space chain link posts maximum 8 feet on center unless noted otherwise. 3.0004 inches 3/4"-1' Surface mount posts with mounting plates where indicated. Fasten with lag bolts and shields. B. Chain Link Fence Manufacturers Institute (CLFMI): Product Manual CLF-PM0610. PROJECT NAME C. Adjustment to Concrete Mixes E. Top Rails: Run rail continuously through line posts caps, bending to radius for curved runs and at other posts termination into rail end attached to posts or post caps C. Industrial Steel Guide for Fence, Rails, Posts, Gates and Accessories. 1. Mix design adjustments may be requested by Contractor when job conditions, weather, test results warrant, or to meet appearance of accepted samples or mockup. fabricated to receive rail. Provide expansion couplings as recommended by fencing manufacturer. 2. Test data for revised mix design shall be submitted to and accepted by Architect before using in work. D. State of California, Business and Transportation Agency, Department of Transportation (Caltrans) "Standard Specifications." F. Bottom Rails: Install bottom rails between posts with fittings and accessories as shown in Drawings, as applicable. COLLEGE OF THE PART 3 - EXECUTION 1.03 ADMINISTRATIVE REQUIREMENTS G. Brace Assemblies: Install braces so posts are plumb when diagonal rod is under proper tension. SISIYOUS 3.01 PREPARATION A. Submittal Procedures: Action and Informational Submittals shall be submitted in accordance with applicable specifications sections. H. Tension Wire: As applicable, install at bottom of fabric (and at top if top rail is not specified) as shown in Drawings. Install tension wire before stretching fabric and attach to each post with ties. Secure wire to fabric with 12.5 gauge hog rings at 24 inches on center maximum. A. Use templates for anchor plates, bolts, inserts and other items embedded in concrete. Accurately secure so that they will not be displaced during placing of concrete. **VOLLEYBALL FACILITY** 1.04 ACTION SUBMITTALS I. Fabric: Leave approximately 2 inches between finish grade and bottom selvages (1 inch at backstops) unless otherwise indicated. Pull fabric taut and tie to posts, B. Piping and Conduit: Do not embed piping, other than electrical conduit at irrigation sleeves, in structural concrete. A. Shop Drawings: To scale drawings showing all different types and sizes of fencing systems. rails, and tension wires. Install fabric on infield or primary use side of fence, unless noted otherwise, and anchor to framework so that fabric remains in tension 1. Locate conduit to maintain strength of structures at maximum. Verify size, length, and location of electrical conduit. 1. Shop Drawings shall include, but may not be limited to: after pulling force is released. 2. Provide sleeves for irrigation lines provided under Section 32 84 00 - Irrigation. a. All information regarding clearances, connections, components and any miscellaneous related appurtenances (such as wood baseboards at backstops, locking J. Tension Bars: Provide one bar for each gate and end post, and two for each corner and pull post, except where fabric integrally woven into post. Thread through C. Aggregate Base Course: Compact base course to thickness shown on Drawings in accordance with recommendations of the Geotechnical Engineer. mechanisms etc.). fabric, and secure to end, corner, pull, and gate posts with tension clips spaced not over 15 inches on center. b. Concrete footing and reinforcement information. 3.02 PLACING REINFORCEMENT 800 COLLEGE DR K. Tie Wires: Use U-shaped wire of proper length to secure fabric firmly to posts and rails with ends twisted at least 2 full turns. Bend ends of wire to minimize 2. Indicate materials, dimensions, sizes, weights and finishes of components. Include plans, elevations, sections and other required installation and operational A. Comply with Comply with CRSI's "Manual of Standard Practice" and additional requirements for placing reinforcement specified for structural concrete on the Drawings. WEED, CA 96094 hazard to persons or clothing. Tie fabric to line posts 12 inches maximum on center and to rails and braces 24 inches maximum on center. clearances, connections, components and miscellaneous related appurtenances such as wood boards and locking. B. Reinforcement shall be free of paint, oil, dirt, scale, or loose rust or coating that might reduce bond with concrete. 3. Details showing post anchorage, attachment and bracing. Provide setting drawings, templates, instructions, and directions for installation of anchorage devices. L. Fasteners: Install nuts for tension clips and hardware bolts on side of fence opposite fabric side. Peen ends of bolts or score threads to prevent removal of nuts. Cut all bolts within three threads of nut or less. C. When there has been a delay in placing concrete, reinforcement shall be inspected and, if necessary, cleaned, relocated, and tied at no additional cost to District. B. Product Data: Manufacturer's descriptive literature for materials and components of the chain link fencing system including coatings, fittings, and hardware. D. Wherever conduits, piping, inserts, sleeves, and similar item interfere with placing of reinforcing steel, obtain District's Representative's approval of method of procedure before concrete is placed. 1. Include the manufacturer's name and catalog number for each item where applicable. M. Field Welding: DATE 2. Clearly identify which portions of the information on the printed literature are applicable if more than one product is shown. 1. Field welds shall be completed by a Certified Structural Welder. E. Securely tie and support reinforcement to prevent displacement by construction traffic and during casting of concrete. 11/08/2 2. Comply with applicable AWS specification for procedures of manual shielded metal arc welding, for appearance and quality of welds, and for methods used **BID SUBMITTAL** F. Splices not shown on the Drawings shall be accepted by District's Representative, in writing. in correcting welding work. 1. Chain-link fabric, approximately 12 inches square, if requested by Owner's Representative. G. Unless permitted in writing, reinforcement shall not be bent after being partially embedded in hardened concrete. 3. Repair zinc coating damaged by field welding as specified for shop welding. 2. Hardware and fittings Owner's Representative. 3.03 PLACING OF CONCRETE N. Bolts shall be cut back to within three threads of the nut. 1.05 INFORMATIONAL SUBMITTALS A. Notify District's Representative minimum 5 working days prior to pour. 3.03 ADJUSTMENT AND TOUCH-UP A. Installation Instructions and/or Drawings: Submit as applicable. A. Inspect installed work. Verify that gates, controls, and hardware operate properly. Correct deficiencies. 1. Protect finished surfaces adjacent to areas to receive concrete. PART 2 - PRODUCTS B. Restore products and finishes damaged during installation and construction period so that no evidence of correction work remains. 2. Verify that the Project Engineer and City Inspector, if required, have inspected reinforcement. 2.01 DESIGN AND PERFORMANCE CRITERIA 3. Notify Project Engineer, City Inspector if required, and Contractor's testing laboratory at least two working days before placing concrete. END OF SECTION NO. REVISIONS DATE C. Placing: SECTION 32 32 15 A. It is intended that all fencing, by area, receive the same finish coating wherever possible. Nuts, bolts, applicable moving portions of hinges etc. shall be painted to 1. Moisten earth, and spray forms and reinforcement with water before placing concrete. LANDSCAPE CONCRETE match with PVC touch-up paint in vinyl or powder coated systems. 2. Place concrete in continuous operation to permit proper and thorough integration and to complete scheduled placement. B. Except as otherwise specified, comply with Chain Link Fence Manufacturers Institute (CLFMI) Product Manual. PART 1 - GENERAL 3. Hot-Weather Concreting: Conform to ACI 305 when mean daily temperature rises above 80 degrees F. 4. Use vibrators for thorough consolidation of concrete. C. Industry Standards: Materials and installation shall conform to the requirements of the Chain Link Fence Manufacturers Institute (CLFMI) "Product Manual." 1.01 SUMMARY a. Provide vibrators at each point of deposit during simultaneous placing to ensure timely consolidation around reinforcement, embedded items, and into corners of forms; ensure availability D. Regulatory Requirements: Pedestrian gates and related hardware shall comply with applicable codes, including provisions for accessibility required by CBC C. Section Includes: spare vibrators in case of failures Chapters 10 and 11B, Part 2; and the Americans with Disabilities Act (ADA) Standards for Accessible Design. 1. Concrete Footings b. Do not place vibrators against reinforcement, attach to forms, or use to spread concrete. 5. Distribute concrete in maximum 18-inch layers, unless otherwise accepted. E. Bottom 10 inches of pedestrian gates shall have a smooth uninterrupted surface. D. Related Requirements: 6. Space points of deposit to eliminate need for lateral flow. 1. Section 32 33 00 - Site Furnishings 2.02 MATERIALS 3.04 PROTECTION AND CURING A. Fabric: Galvanized steel wire complying with ASTM A392, Class 1, with not less than 1.2 ounce zinc coating per square foot. A. Protection: A. State of California, Business and Transportation Agency, Department of Transportation (Caltrans) "Standard Specifications." Selvage: Knuckled finish top and bottom. 1. Protect concrete against rapid drying and damage by rain. 2. Steel Fabric: Comply with Chain Link Fence Manufacturers Institute (CLFMI) Product Manual. Furnish one-piece fabric widths for fencing up to 16 feet high. CHECKED BY 1.03 ADMINISTRATIVE REQUIREMENTS 2. Keep concrete moist for at least 7 days. Wire sizes includes zinc coating. WD/DC WD 3. Protect with liquid curing compound, or a covering that will not stain or discolor finished concrete surfaces. B. Coordination: 3. Mesh Opening: 2 inches. 4. Obtain acceptance of proposed method prior to use. 1. Coordinate delivery so that mixes may be immediately poured upon arrival at site. 4. Wire Diameter: 9-gauge (0.148-inch diameter), unless noted otherwise. 2. Coordinate proper installation of accessories and anchorage embedded in concrete and for the provision of holes, openings, and other penetrations necessary to the execution of the work of B. Curing: Cure concrete in accordance with the ACI Manual of Concrete Practice and all applicable requirements for curing and protection of concrete included in Sections 90-7 and 90-8 of t 11/08/24 NTS 5. Polymer Coating: Thermally fused and bonded polyvinyl chloride (PVC) complying with ASTM F668 Class 2b, 7mil (0.18 mm) thickness thermally fused over Caltrans "Standard Specifications." zinc-coated wire. 3. Coordinate mix design and finishing of colored concrete work to assure appearance match with cast-in-place concrete included on the Structural Drawings. 3.05 FIELD QUALITY CONTROL B. Framework: Posts and rails shall be Schedule 40 pipe complying with conforming to ASTM F1083, Regular Grade, 30,000 psi Yield Strength, or ASTM F1043, 2414500 A. Samples: District's testing agency will take samples for laboratory testing during the course of the work when required by Code. Other specified and required testing shall be by the Contractor Group 1-C, High Strength Grade 50,000 psi Yield Strength, galvanized with no less than 1.8 ounces of zinc coating per square foot of surface area complying C. Reinforcing Steel: Fabricators drawings for steel reinforcing showing complete bending and placing details of reinforcement necessary for location of reinforcement. with ASTM A123. D2.0 B. Contractor shall pay for full costs of removal of rejected concrete and its replacement with concrete of specified strength and retesting. 1. Strength requirements for posts and rails shall conform to ASTM F1043 or F1083 as noted below. D. Product Data: Manufacturers' current catalog cuts and specifications for the following: **FND OF SECTION** 2. Pipe shall be straight, true to section, material, and sizes specified, and shall conform to the following weights per foot:

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PLOT DATE: 11-08-24 PLOTTED BY: station5

SPECIFICATIONS

SECTION 32 33 00 SITE FURNISHINGS PART 1 - GENERA 1.01 SUMMARY A. Section Includes 1. Site furnishings and installation accessories as shown on the Drawings including, but not necessarily limited to, the following: a. Beach volleyball post and netting b. Beach volleyball Pole Pads c. 90 Degree Volleyball Curb and Padding d. Boundary lines at Volleyball Courts B. Related Requirements: 1. Section 32 32 15 - Landscape Concrete 1.02 REFERENCES A. State of California, Business and Transportation Agency, Department of Transportation (Caltrans) "Standard Specifications." 1.03 ADMINISTRATIVE REQUIREMENTS A. Submittal Procedures: Action and Informational Submittals shall be submitted in accordance with applicable specifications sections. B. Scheduling and Sequencing: 1. Do not install site furnishings prior to acceptance by Owner's Representative of area to receive items. 2. Coordinate construction timing of installation of site furnishings in conformance with other work interfacing with installation of the site furnishing items. 1.04 ACTION SUBMITTALS C. Shop Drawings: Submit complete shop drawings for all materials or furnishings requiring field or shop fabrication. D. Product Data: Manufacturer's catalog cut sheets of materials and equipment to be provided. 1. Include the manufacturer and distributor name, and subcontractor as applicable 2. Cut sheets clearly describe the specific product by catalog number and that additional non-specified products that may appear on the same cut sheet are crossed out where applicable. E. Samples: Colors and finishes for products and furnishings requiring selection by the Owner's Representative. 1.05 INFORMATIONAL SUBMITTALS A. Statement of qualifications for manufacturers and installer if requested by the Owner's Representative. A. Provide operation and maintenance data for items with operable, movable, or replaceable parts, for items with mechanical connections, and for other items as applicable. B. Extended warranties as specified. 1.07 QUALITY ASSURANCE A. Furnishings shall be reviewed for conformance with the intent of the Contract Documents and accepted by the Contractor prior to installation. B. Site furnishings shall be in a new, "first-class" condition as determined by the Owner's Representative at the time of Final Acceptance. C. Field Samples and Mockups: As requested by the Owner's Representative. 1.08DELIVERY, STORAGE AND HANDLING 1. The Contractor is responsible for coordination of the delivery, acceptance, handling, and storage of site furnishings. 2. Store and handle site furnishings as acceptable to the Owner's Representative and so that work or access of others is not impeded. 3. Protect site furnishings from theft or damage until such items have been accepted by the Owner. B. Packaging and Labeling: Furnish materials in manufacturer's unopened, original packaging, bearing original labels showing quantity, description, and name of manufacturer. Verify that materials and components are adequately padded and securely bound in such a manner that no damage occurs to the product during delivery and unloading at the site. C. Storage: Damaged materials will be rejected. Remove damaged materials from job site immediately and pay cost of replacement. Determination of damage shall be the sole authority of the D. Painted Finishes: Provide non-scratching, non-staining, firmly bound covering for shop-painted finishes until installed and accepted. E. Protect wood materials from stains. 1.09 WARRANTY A. Manufacturers: Provide Owner with manufacturer's written extended product warranties as available for the specified products. PART 2 - PRODUCTS 2.01 SITE FURNISHINGS - GENERAL A. In addition to those described in the following Articles, refer to the Site Furnishing Matrix included at the end of this Section for complete list of items to be provided. PART 3 -**EXECUTION** 3.01 EXAMINATION A. Prior to commencement of work described in this Section, carefully inspect installed work, and verify all such work is correct and complete. Immediately notify the Owner's Representative of any 2.02 DRAINAGE STRUCTURES discrepancy before proceeding with work. 3.02 INSTALLATION - GENERAL A. Conform to layout shown on Drawings. Final placement shall be field verified with the Owner's Representative. B. Installation of products shall be as shown in the Drawings, or according to manufacturer's instructions. If discrepancies are found, or if information is lacking, consult with the Owner's Representative C. Concrete footings shall conform to requirements of Section 32 32 15 - Landscape Concrete unless noted otherwise. D. Furnish anchorage and fastening required for installation to ensure proper fit and accurate placements. Bolts, where exposed, shall be cut back to within three threads of the nut. 3.04 CLEANING AND ADJUSTMENT A. Protect furnishings from damage until acceptance of work. Do not remove protective wrappings from furnishings until so instructed by the Owner's Representative. B. Clean soiled site furnishings prior to acceptance by Owner. C. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by the Owner's Representative. D. Replace damaged items to the satisfaction of the Owner's Representative. Replace missing accessories at no cost to Owner. 3.05 SITE FURNISHINGS MATRIX

ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY.	FINISH/COL OR	DISTRIBUTOR/CONTACT
A	Beach Volleyball Netting System (NCAA)	Sports Imports	DE5010 with HDNR-B and FIVB - Beach Net	1 set Per court	Red	Sports Imports (800) 556-3198
В	Beach Volleyball Netting System Pole Pads	Sports Imports	SVP1-B	2 per court	Blue with "Siskiyous" letter	Sports Imports (800) 556-3198
С	Beach Volleyball Markers	Sports Imports	FIVB-CBM2	1 per court	N/A	Sports Imports (800) 556-3198
D	90 Degree Volleyball Curb Padding	Volleyball USA	Curb Pad 90 degree	575 linear feet (Refer to plans	TBD	(800) 494-3933 14615 NE 91st St. Building B Redmond, WA 98052
E	Volleyball Wall Padding	Volleyball USA	Wall-Padding	92 linear feet (Refer to plans	Color, lettering, and logo TBD	(800) 494-3933 14615 NE 91st St. Building B Redmond, WA 98052
F	Volleyball Net Antenna	Sports Imports	NA2	1 pair percourt	N/A	Sports Imports (800) 556-3198
	Senoh simple beach anchor	Sports Imports	KZ5100	8	N/A	Sports Imports (800) 556-3198

END OF SECTION

SECTION 33 40 00

STORM DRAINAGE UTILITIES

PART 1 - GENERAL 1.01 SUMMARY

A. Section Includes: Storm drainage system improvements and related work as shown on the Drawings and specified including, but is necessarily limited to, the

following:. Pipe and fittings. 2. Catch basins.

B. Related Requirements: 1. Section 32 33 00 - Site Furnishings

1.02 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. C478: Standard Specification for Circular Precast Reinforced Concrete Manhole Sections.

2. C923: Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals.

3. D2321-20: Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications.

4. D2412-21: Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading.

5. D2729-21: Standard Specification for Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings.

6. D3034-21: Standard Specification for Type PSM Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings.

7. D3350-21: Standard Specification for Polyethylene Plastics Pipe and Fittings Materials.

8. D4101-11: Standard Specification for Polypropylene Injection and Extrusion Materials.

C. State of California, Business and Transportation Agency, Department of Transportation (Caltrans) "Standard Specifications."

1.03 ADMINISTRATIVE REQUIREMENTS

B. California Building Code, Current Edition.

A. Submittal Procedures: Action and Informational Submittals shall be submitted in accordance with applicable specifications sections.

B. Coordinate work of this section with all other work contained in the Contract Documents.

1.04 ACTION SUBMITTALS

A. Shop Drawings:

1. Catch basins. Include plans, elevations, sections, details, frames, covers, and grates.

B. Product Data: Manufacturer's cut-sheets of products to be used.

1.05 INFORMATIONAL SUBMITTALS

C. Field Test Reports indicating and interpreting test results for compliance with performance.

1.06 CLOSEOUT SUBMITTALS

A. Record Drawings:

1. Accurately record location of new piping, drain structures, and connections to existing systems using horizontal dimensions, elevations, inverts, and slope gradients as applicable.

2. Comply with the additional requirements of applicable specifications sections..

1.07 QUALITY ASSURANCE

A. Control of Work: Conform to Section 5 of the Standard Specifications.

B. Control of Materials: Conform to Section 6 of the Standard Specifications.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Store pipe neatly and orderly, stacked and blocked to prevent damage. Cracked, checked, spalled, or otherwise damaged pipe and precast concrete units shall

be removed from site.

B. Use of chain slings shall not be permitted.

C. Piping, fittings, and related materials shall be carefully handled. Comply with manufacturer's rigging instructions for precast items. Use of chain slings is not be

D. All pipelines, fittings and drainage structures shall be kept clean and closed during construction.

A. Make provisions for, and take the necessary precautions to, protect existing and new work from damage during entire life of project.

B. Work of this Section shall not be executed when site conditions are detrimental to quality of work as determined by the Owner's Representative.

C. Do not interrupt service to facilities occupied or used by Owner without the Owner's written permission.

PART 2 - PRODUCTS

2.01 PIPE AND FITTINGS

1. Pipe and fittings shall be clearly and permanently marked to identify manufacturer, type, class, or schedule and NSF approval as applicable. 2. Unless otherwise noted, Contractor has option of using either CHDPE or PVC pipe as specified.

B. Flat Panel Pipe: Perforated HDPE pipe with internal pillars for structural support; "AdvanEDGE" by Advanced Drainage Systems, Inc., 510-913-2211 as specified,

or equal.

1. Size: 1.5 inches by 12 inches wide.

2. Couplers, Wyes, Tees, End Caps, and Round Pipe Adapters: "AdvanEDGE" components.

B. Precast Catch Basins/Drain Inlets: 1. General:

a. All catch basins to have locking mechanism or screw down grate to frame.

b. Provide two grade rings at each catch basin.

12" Concrete Basin

2. Square Basin Product Matrix:

MODEL NO. DESCRIPTION MANUFACTURER

Oldcastle Precast, or equal.

(Contact Number: 888-965-3220

B. Extensions: Provide box extensions, junction boxes and grade rings compatible with structures as necessary to finish at the proper elevation and to facilitate future elevation adjustments as noted below.

12 (12CB)

GRATE INFORMATION

Galvanized Steel cross bars

PART 3 - EXECUTION

3.01 PIPING INSTALLATION

A. General:

1. Pipe shall be installed per manufacturers' instructions and in conformance with the Contracts Documents.

2. Installation of thermoplastic pipe shall be in accordance with ASTM D2321.

B. Flat Panel Piping:

2. Install per the layout indicated on the Drawings and in strict compliance with Manufacturer's written recommended installation instructions. 3. Contractor shall exercise caution to not crush or damage the piping during installation of the permeable rock base.

3.02 INSTALLATION OF DRAINAGE STRUCTURES

A. General: Set rim or cover elevations to specified grades utilizing a minimum of two grade rings (or extensions) at top of drainage structure to facilitate potential elevation adjustments in the future.

B. Catch Basins: Install as shown in the Drawings and as follows:

Excavate as required.

2. Set on firm, unyielding base. Set on compacted select backfill material if directed by Owner's Representative. 3. Prefabricated units not having a bottom shall be set on a poured_in_place concrete slab with smooth trowel finish. Mortar and properly seal unit to slab,

making a watertight connection. 4. Install pipe inlets and outlets to specified elevations. Grout and/or seal all joints to a watertight condition with material per manufacturer's recommendation.

3.03 IDENTIFICATION

A. Materials and their installation are specified in Section 31 20 00 - Earth Moving. Arrange for installation of green warning tape directly over piping and at outside edge of underground structures. B. Use detectable warning tape over nonferrous piping and over edges of underground structures.

3.04 FIELD QUALITY CONTROL

A. The Owner's Representative shall review and accept work at the following stages:

1. Excavated trench with bedding in place prior to any pipe being laid.

2. Pipe laid prior to backfilling. Pipe covered prior to review and acceptance shall be uncovered and re_backfilled at Contractor's expense. 3. Drainage device location and pipe connection.

4. New drainage system shall be flood tested and clean of debris.

END OF SECTION

STAMP

VERDE DESIGN LANDSCAPE ARCHITECTURE CIVIL ENGINEERING **SPORT PLANNING & DESIGN** 3558 Round Barn Blvd. Suite 200 Santa Rosa, CA 95403 tel: 707.800.4204 fax: 408.985.7260 www.VerdeDesignInc.com

SHEET TITLE

CONSULTANT

SPECIFICATIONS

PROJECT NAME

COLLEGE OF THE SISIYOUS **VOLLEYBALL FACILITY**

PROJECT ADDRESS

PROJ. NO.

SHEET NO.

800 COLLEGE DR WEED, CA 96094

SUBMITTAL DATE 11/08/2 **BID SUBMITTAL** NO. | REVISIONS DATE CHECKED BY WD/DC WD 11/08/24 NTS

2414500

DRAWING NAME: Y:\Projects-SR\2024\2414500M - College of the Siskiyous Volleyball Courts\CAD_LD2.1 SPECS.dwg PLOT DATE: 11-08-24 PLOTTED BY: station5

SPECIFICATIONS