

REVISED Dated April 29, 2025

**COUNTY OF SOLANO
STATE OF CALIFORNIA**



**RIO VISTA CORPORATION YARD PROJECT
PHASE 2 &
SOLANO COUNTY DOIT BENICIA SHELTER**

**NOTICE TO BIDDERS, BID FORM, SPECIAL
PROVISIONS, AGREEMENT, AND RELATED CONTRACT
DOCUMENTS**

Solano County Department of Resource Management
Public Works Engineering
675 Texas Street, Suite 5500
Fairfield, CA 94533-6341

Bid Due Date: May 15th, 2025

FOR CLERK OF THE BOARD

REVISED Dated April 29, 2025

Planholder Lists and Bidder Results

for

Solano County Public Works Projects

can be found on our website at

<http://www.solanormplanroom.com/>

REVISED Dated April 29, 2025

COUNTY OF SOLANO
STATE OF CALIFORNIA

NOTICE TO BIDDERS, BID FORM,
SPECIAL PROVISIONS, CONTRACT AND
OTHER RELATED CONTRACT DOCUMENTS
FOR THE CONSTRUCTION OF

**RIO VISTA CORPORATION YARD PROJECT
PHASE 2 &
SOLANO COUNTY DOIT BENICIA SHELTER**

for use in connection with Caltrans Standard Specifications 2018,
Revised Caltrans Standard Specifications 2018 Dated 4/15/2022,
Revised Caltrans Standard Plans 2018 Dated 4/15/2022,
and Labor Surcharge and Equipment Rental Rates.

BOARD OF SUPERVISORS

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SOLANO COUNTY DEPARTMENT OF RESOURCE MANAGEMENT
DIRECTOR OF RESOURCE MANAGEMENT: JAMES BEZEK

675 Texas Street, Suite 5500
Fairfield, California 94533-6341
Contact Person: Riley Martinson
Phone: 707-784- 3177

REVISED Dated April 29, 2025

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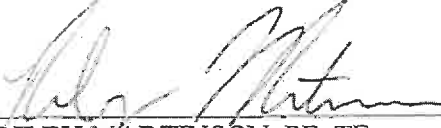
REVISED Dated April 29, 2025

**RIO VISTA CORPORATION YARD PROJECT PHASE 2
& SOLANO COUNTY DOIT BENICIA SHELTER**

SIGNATURE AND SEAL SHEET

The Special Provisions and plans contained herein have been prepared by or under the direction of the following Registered Person.



 4/29/25
RILEY MARTINSON, PE. TE.
SOLANO COUNTY DEPT. OF RESOURCE MANAGEMENT
ENGINEERING SERVICES SUPERVISOR

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IMPORTANT SPECIAL NOTICE

Subcontractor Listing Requirement at Time of Bid. A prime contractor is required to include the license number of a listed subcontractor when submitting a bid on any public work in California.

In accordance with Public Contract Code § 4100 et seq., bidders must complete the requested fields in the SOLANO COUNTY BIDDER'S LIST OF SUBCONTRACTORS below (unless otherwise indicated) for each subcontractor performing work or labor, or rendering service to the contractor, or a subcontractor who, under subcontract to the contractor, specially fabricates and installs a portion of the Work, in an amount in excess of one-half of one percent (0.5%) of the total bid amount. In the case of bids for the construction of streets and highways, including bridges, list subcontractors for all work in an amount in excess of one-half of one percent (0.5%) of the total bid, or \$10,000.00 whichever is greater.

If a bidder fails to specify a subcontractor or if a contractor specifies more than one subcontractor for the same portion of work, then the bidder shall be deemed to have agreed that it is fully qualified to perform that portion of work and that it shall perform that portion itself.

IMPORTANT SPECIAL NOTICE

Contractors and subcontractors need to be registered with the California Department of Industrial Relations (DIR) to: 1) bid or be listed on a bid for a public works project or 2) work on a public works project.

Any contractor or subcontractor who bids on or performs work that requires the payment of prevailing wages under state law must be registered with DIR. This includes not only work performed by the building and construction trades, but also other types of work, including trucking, surveying, and testing, if that work is subject to prevailing wage requirements.

The cost is **\$400.00** for a contractor or subcontractor to apply and register through DIR. If a contractor or subcontractor has more than one entity or business that bids on or performs public works, then each of those entities must be registered with DIR.

To qualify for registration, the contractor or subcontractor must (1) have workers' compensation coverage for their workers, (2) be licensed by Contractor State License Board if applicable to their trade, (3) not owe back wages or related penalties under a judgment or order, (4) not be debarred from performing public works by the state or federal government, and (5) not have previously bid or worked in violation of the registration requirement. (*Please see Labor Code section 1725.5 for complete text of requirements and exceptions.)

Upon registration, the contractor or subcontractor's name and registration will be added automatically to a searchable data base on DIR's website.

<https://www.dir.ca.gov/Public-Works/Contractor-Registration.html>

https://services.dir.ca.gov/gsp?id=dir_contractors&table=x_cdoi2_left_core_contractor_lookup

Other information regarding these requirements can be found at the following website:

<https://www.dir.ca.gov/public-works/>

REVISED Dated April 29, 2025

NOTICE TO BIDDERS

Bids open: May 15th, 2025 at 2:00 p.m. (PDT)

Date: April 29th, 2025

The COUNTY OF SOLANO, STATE OF CALIFORNIA ("County") will receive bids for the furnishing of all labor, materials, transportation, and services necessary for the construction and completion of:

RIO VISTA CORPORATION YARD PROJECT PHASE 2 & SOLANO COUNTY DOIT BENICIA SHELTER

General work description:

The Contract shall be awarded to the Contractor submitting the lowest responsive and responsible bid. A responsive bid complies with all terms, conditions, and specifications of the bid solicitation. A responsible bidder is one who demonstrates the ability, capacity, and qualifications to fulfill the requirements of the Project.

The Rio Vista Corporation Yard Phase 2 in Rio Vista, CA. The project involves the demolition of an existing metal building, fabrication and construction of a prefabricated metal building, foundation work, utility work, and grading. HAZMAT reports are required. If asbestos and lead are found, the Contractor will be required to obtain a Bay Air Quality Management permit and dispose of the material to a certified landfill.

The Department of Information Technology (DOIT) Benicia Shelter Project in Benicia, CA includes site preparation, utility work, grading, placement of a pre-purchased 85,000 lbs equipment shelter, and remove of the existing modular building and foundation for information technology facilities. Solano County will provide for the delivery of the modular building to the project site. The Contractor will coordinate the delivery of the modular building with the Engineer. **The DOIT Benicia Shelter project design is complete, and no design services are required for this project.**

Solano County has prepared the environmental documents as required by CEQA.

No additional walkthroughs will be held. Questions received by 4:00 p.m. (PDT), May 7th, 2025, may be answered via an addendum, unless the question requires further time or research to properly construct an answer. Questions must be submitted in writing, by e-mail to RCMartinson@solanocounty.gov.

Work must be completed within **ONE HUNDRED AND TWENTY (120)** construction working days for the entirety of the project. The working day count will begin pursuant to Section 8-1.04B of these Specifications.

The DOIT Benicia Shelter Project must be completed within **THIRTY (30)** construction working days. The working day count will begin pursuant to Section 8-1.04B of these Specifications and the 30-day count will be suspended when power is provided to the new structure.

The estimated cost of the project is **\$2,400,000**.

Bids must be on a unit price basis. There is no DBE requirement for this project.

The Department of Resource Management will receive bids until 2:00 p.m. on the bid opening date at the office of: **Solano County Department of Resource Management, 675 Texas Street, Suite 5500, Fairfield, California**. Bids received after this time will not be accepted.

Attention is directed to the Contract Documents for complete details and bid requirements. Copies of the Contract Documents may be obtained by logging on <http://www.solanormplanroom.com/> or by calling BPXpress Reprographics at (707) 745-3593. These may be obtained at a set price of \$90.00, plus shipping and handling, and is nonrefundable. All bidders must purchase a complete bid set from BPXpress Reprographics in order to be considered responsive and to receive addenda notifications. Submit your bid with bidder's security equal to at least 10 % of the bid.

The successful bidder shall furnish a payment bond and a performance bond.

The County reserves the right to reject any or all bids.

Contractor shall possess a valid business license.

Prevailing wages are required on this contract. The Director of the California Department of Industrial Relations determines the general prevailing wage rates. Obtain the wage rates at the DIR website: <http://www.dir.ca.gov> or from the Department's Labor Compliance Office of the district in which the work is located. For further information, please see our web page: http://www.solanocounty.com/depts/rm/public_works/engineering_surveying_division/projects/request_for_bids.asp

Sincerely,



MATT TUGGLE
ENGINEERING MANAGER

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REVISED Dated April 29, 2025

BID FORM TO COUNTY OF SOLANO, STATE OF CALIFORNIA

NAME OF BIDDER Swierstok Enterprise, Inc. DBA Pro Builders

BUSINESS ADDRESS 7030 Drywood Way

CITY, STATE, ZIP Orangevale, CA 95662

TELEPHONE AND AREA CODE () 916.225.0373

The work for which this bid is submitted is for construction in accordance with the Special Provisions (including the payment of not less than the state general prevailing wage rates or federal minimum wage rates), the project plans described below, including any addenda, the attached contract, and the labor surcharge and equipment rental rates in effect on the date the work is accomplished.

The project plans for the work to be done were approved and are entitled:

**RIO VISTA CORPORATION YARD PROJECT PHASE 2 &
SOLANO COUNTY DOIT BENICIA SHELTER**

Bids are to be submitted for the entire work. The amount of the bid for comparison purposes will be the total of all items.

The bidder shall set forth for each unit basis item of work a unit price and a total for the item, and for each lump sum item a total for the item, all in clearly legible figures in the respective spaces provided for that purpose. In the case of unit basis items, the amount set forth under the "Item Total" column shall be the product of the unit price bid and the estimated quantity for the item.

In case of discrepancy between the unit price and the total set forth for a unit basis item, the unit price shall prevail, except as provided in (a) or (b) as follows:

- (a) If the amount set forth as a unit price is unreadable or otherwise unclear, or is omitted, or is the same as the entry in the item total column, then the amount set forth in the item total column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price;
- (b) (Decimal Errors) If the product of the entered unit price and the estimated quantity is exactly off by a factor of ten, one hundred, etc., or one-tenth, or one-hundredth, etc. from the entered total, the discrepancy will be resolved by using the entered unit price or item total, whichever most closely approximates percentage wise the unit price or item total in the Department's Final Estimate of cost.

If this bid is accepted and the undersigned fails to enter into the contract, furnish, a performance bond and a payment bond in the amount required by Cal. Civil Code section 9550 et seq., with

REVISED Dated April 29, 2025

surety satisfactory to the County, within 10 days, not including Saturdays, Sundays and legal holidays, after the bidder has received notice from the Engineer that the contract has been awarded, the County may, at its option, determine that the bidder has abandoned the contract, and thereupon this bid and its acceptance shall be null and void and the forfeiture of such security accompanying this bid shall operate and the same shall be the property of the County of Solano.

WARNING: Any bidder or contractor not licensed by the time of award of contract shall be subject to all legal penalties imposed by law, including, but not limited to, any appropriate disciplinary action by the Contractors' State License Board.

The undersigned, as bidder, declares that the only persons or parties interested in this bid as principals are those named in it; that this bid is made without collusion with any other person, firm, or corporation; that they have carefully examined the location of the proposed work, the attached proposed form of contract, and the plans referred to; and they propose, and agree if this bid is accepted, that he will contract with the County of Solano, in the form of the attached contract, to provide all necessary machinery, tools, apparatus, and other means of construction, and to do all the work and furnish all the materials specified in the contract, in the prescribed manner and time, and according to the requirements of the Engineer as set forth, and that he will take in full payment the following item prices:

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**RIO VISTA CORPORATION YARD PROJECT PHASE 2
& SOLANO COUNTY DOIT BENICIA SHELTER**

BID SCHEDULE

MILESTONE 1 - PROJECT MANAGEMENT/GENERAL					
ITEM NO.	BID ITEMS	UNITS	QTY	ITEM PRICE	TOTAL
1.01	PROJECT MANAGEMENT	LS	1	70000	70000
1.02	ONSITE CONSTRUCTION MANAGEMENT	LS	1	70000	70000
1.03	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	LS	1	30000	30000
1.04	UTILITY COORDINATION	LS	1	12000	12000
1.05	CHANGE ORDER AUTHORIZATION	LS	1	\$ 100,000.00	\$ 100,000.00
				SUBTOTAL	282,000
MILESTONE 2 - BENICIA DOIT SHELTER					
ITEM NO.	BID ITEMS	UNITS	QTY	ITEM PRICE	TOTAL
2.01	LEAD ABATEMENT PLAN	LS	1	5000	5000
2.02	MOBILIZATION	LS	1	17000	17000
2.03	SITE PREPARATION	CY	55	600	33000
2.04	STRUCTURE CONCRETE (FOUNDATION) (F)	CY	19	950	18050
2.05	BAR REINFORCING STEEL, (#5 OR #4) (F)	LB	2,150	4	8600
2.06	INSTALL PREFABRICATED SHELTER	LS	1	9000	9000
2.07	ELECTRICAL SYSTEM	LS	1	160000	160,000
2.08	2" PVC CONDUIT (SCHEDULE 80)	LF	70	290	20,300
2.09	CABLE BRIDGE AND HANGERS	LF	15	1200	18000
2.10	REMOVE AND DISPOSE WOOD POLE	TONS	6	600	3600
2.11	FIBER ROLLS	LF	250	17	4250
2.12	SILT FENCE	LF	250	17	4250
2.13	REMOBILIZATION	LS	1	17000	17000
2.14	REMOVE AND DISPOSE EXISTING STRUCTURES AND FOUNDATIONS	SF	320	50	16000
2.15	HAZARDOUS WASTE REMOVAL AND DISPOSAL	SF	320	30	9600

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2.16	BAAQMD PERMIT	LS	1	3500	3500
				SUBTOTAL	347,150
MILESTONE 3 - RIO VISTA CORPORATION YARD PHASE 2					
ITEM NO.	BID ITEMS	UNITS	QTY	ITEM PRICE	TOTAL
3.01	HAZMAT SURVEY	LS	1	8000	8000
3.02	CITY OF RIO VISTA WATER WILL-SERVE LETTER	LS	1	5000	5000
3.03	CITY OF RIO VISTA WASTEWATER WILL-SERVE LETTER	LS	1	5000	5000
3.04	CITY OF RIO VISTA FIRE DEPARTMENT APPROVAL	LS	1	6000	6000
3.05	MOBILIZATION	LS	1	90000	90000
3.06	CONCRETE WASHOUT	EA	4	4500	4500
3.07	ASBESTOS ABATEMENT PLAN	LS	1	8000	8000
3.08	LEAD ABATEMENT PLAN	LS	1	8000	8000
3.09	ABANDON UTILITY (SEWER)	EA	1	18000	18000
3.10	POTHOLING (VACUUM EXTRACTION)	EA	10	3800	38000
3.11	CLEARING AND GRUBBING	LS	1	45000	45000
3.12	RETENTION POND EXCAVATION (F)	CY	88	300	26400
3.13	DETECTABLE WARNING SURFACE	SF	132	45	5940
3.14	THERMOPLASTIC TRAFFIC STRIPE (4" WHITE) (S)	LF	546	30	16380
3.15	EXPORT (F)	CY	298	350	104,300
3.16	UTILITY SERVICES/WATER, AND SEWER LATERALS	LS	1	75000	75000
3.17	TELECOM/ELECTRIC SERVICE DROP AND LINES	LS	1	60000	60000
3.18	AGGREGATE BASE (3/4" CLASS II)	CY	386	190	73340
3.19	HOT MIX ASPHALT (3/4" TYPE A)	TON	175	260	45500
3.20	FURNISH PREFABRICATED METAL STRUCTURE	SF	5,616	52	292032
3.21	REMOVE AND DISPOSE EXISTING STRUCTURES AND FOUNDATIONS	SF	5,893	8	47144
3.22	INSTALL PREFABRICATED METAL STRUCTURE	SF	5,616	30	168480
3.23	STRUCTURE CONCRETE (FOUNDATION) (F)	CY	210	950	199500

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3.24	STRUCTURAL EXCAVATION	CY	466	130	60580
3.25	ROADWAY EXCAVATION	CY	393	130	51090
3.26	BAR REINFORCING STEEL, (#5 OR #4) (F)	LF	9,431	4	37324
3.27	PLUMBING SYSTEM (BUILDING)	LS	1	20000	20000
3.28	ELECTRICAL & TELECOM SYSTEM (BUILDING)	LS	1	280000	280000
3.29	MECHANICAL SYSTM (BUILDING)	LS	1	18000	18000
3.30	CHAIN LINK FENCE	LF	191	220	42020
3.31	OIL-WATER SEPARATOR	EA	1	12000	12006
				SUBTOTAL	1,884,430
ALTERNATIVE BID ITEMS					
4.01	RIO VISTA HAZARDOUS WASTE REMOVAL AND DISPOSE	SF	6,185	5	30925
4.02	YSAQMD PERMIT	LS	1	4000	4000
				SUBTOTAL	34925
				GRAND TOTAL	2,548,505

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SOLANO COUNTY BIDDER'S LIST OF CONSTRUCTION SUBCONTRACTORS

Subcontractor Name and Location	Line Item & Description	Subcontract Amount	Percentage of Bid Item Subcontracted	Contractor License Number DIR Reg Number	DBE (Y/N)	DBE Cert Number
Name: DIAMOND ELECTRIC City, State: ROCKLIN CA	#207, 208, 317, 328 ELECTRICAL	400,000	15%	1062433 1000 957728	N	
Name: WC MOLONBY City, State: STOCKTON CA	#201, 215, 301, 307, 308, 321, 401 DEMOLITION ABATEMENT	50,000	2%	718243 100086 882	N	
Name: RIVER CITY MECHANICAL City, State: OLIVETURST CA	#329 HVAC	10,500	5%	1041448 1000 455002	N	
Name: SIERRA NATIONAL ASPHALT City, State: CARMICHAEL, CA	#3.19 ASPHALT	35,000	1.5%	855763 10000 16970	N	
Name: SMITH CO. City, State: Loomis CA	#3.20, 3.22 ROLL UP DOOR	21,000	1%	747469 10000 128413	N	
Name: COMPASS FENCE INSTALLATION City, State: HAYWARD, CA	#3.14 STRIPING	11,000	5%	868996 100000 3328		

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SUBCONTRACTOR LIST FORM

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
SUBCONTRACTOR LIST
 DES-OE-01022C (REV.03/2015)

Contract No.

Lock Data on Form

Bidding Firm: **Swierstok Enterprise, Inc. DBA Pro Builders**

Business Name and Location	CA State Contractor License Number	Public Works Contractor Registration Number	Bid Items Numbers	Percentage of Bid Item Subcontracted (Whole Numbers)	Description of Portion of Work
DIAMOND ELECTRIC ROCKLIN, CA	1062483	1000 957728	267 208 317 328	15%	ELECTRICAL
MC MALONEY STOCKTON CA	718243	1000 86882	201 215 301 308	2%	DEMO/ ABATEMENT
RIVERCITY MECH OLIVERHURST CA	1041448	1000 455002	329	.5%	HYAC
SIERRA NATIONAL ASPHALT CARMICHAEL, CA	855763	10000 16970	319	1.5%	ASPHALT
SMITH CO. LOOMIS, CA	747469	10000 12843	320 322	1%	ROLL UP DOOR
COMPASS ENL HAYWARD, CA	868996	100000 3328	314	.5%	STRIPING

ADA Notice

For individuals with sensory disabilities, this document is available in alternate formats. For information, call (916) 446-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

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**EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION
THE BIDDER'S EXECUTION ON THE SIGNATURE PORTION OF THIS
BID SHALL ALSO CONSTITUTE AN ENDORSEMENT AND EXECUTION
OF THOSE CERTIFICATIONS WHICH ARE A PART OF THIS BID
STATEMENT RE: EXECUTIVE ORDERS 10925, 11114, AND 11246**

The bidder ^{Pro}Builders, proposed subcontractor _____, certifies that they have _____, have not ☒, participated in a previous contract or subcontract subject to the equal opportunity clauses, as required by Executive Orders 10925, 11114, or 11246, and that, where required, have filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7(b)(1)), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally, only contracts or subcontracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7 (b)(1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

SMALL BUSINESS STATUS

Are you certified as a "Small Business" by the Office of Small Business of the Department of General Services of the State of California?

Please check one of the following: ☒ yes, _____ no, _____ unsure.

(Note: This small business questionnaire is included for statistical reporting only, and your answer neither affects your bid on this contract, nor will it be cause for penalty.)

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PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT

In accordance with Public Contract Code section 10285.1 (Chapter 376, Stats. 1985), the bidder declares under penalty of perjury that the bidder has _____, has not ✓, been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code section 1101, with any public entity, as defined in Public Contract Code section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee, as referred to in section 10285.1.

Note: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided.

The above Pub. Cont. Code section 10285.1 Statement is part of the bid. Signing this bid on the signature portion shall also constitute acknowledgement and certification of this Statement.

Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

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PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In accordance with Public Contract Code section 10162, the bidder shall complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes _____ No ✓

If the answer is yes, explain the circumstances in the following space.

PUBLIC CONTRACT CODE SECTION 10232 STATEMENT

In accordance with Public Contract Code section 10232, the Contractor states under penalty of perjury that no more than one final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

Note: The above Pub. Cont. Code section 10232 Statement and Questionnaire are part of the bid. Signing this bid on the signature portion shall also constitute acknowledgement and certification of this Statement and Questionnaire.

Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

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**NONCOLLUSION DECLARATION TO BE EXECUTED
BY BIDDER AND SUBMITTED WITH BID
PURSUANT TO PUBLIC CONTRACT CODE SEC. 7106**

The undersigned declares:

I am the OLIVIA SWIERSTOK
Treasurer of Swierstok Enterprise, Inc. DBA Pro Builders, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted their bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on May 15, 2025 [date], at Orangevale [city], CA [state].

REVISED Dated April 29, 2025

CALIFORNIA PUBLIC AGENCY, DEBARMENT AND SUSPENSION CERTIFICATION

The bidder, under penalty of perjury under the laws of the State of California, certifies that, except as noted below, he/she or any person associated therewith in the capacity of owner, partner, director, officer, manager:

- is not currently under suspension, debarment, voluntary exclusion, or determination of non-responsibility or ineligibility by any state or local agency in California;
- has not been suspended, debarred, voluntarily excluded or determined non-responsible or ineligible by any state or local agency in California within the past 5 years;
- has not filed any claims, demands for arbitration, or lawsuits against a public agency within the past five years;
- has not had any bid submitted to a public agency in the past five years rejected or refused on the grounds that the bidder is not responsible;
- has not been found by a court or arbitrator to have filed or presented a false claim against a public agency;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 5 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

(N/A)

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Note: Providing false information may result in criminal prosecution or administrative sanctions.

The above certification is part of the bid. Signing this bid on the signature portion thereof shall also constitute signature of this Certification.

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REVISED Dated April 29, 2025

SIGNATURE (BID)

Accompanying this bid is Bidder's Bond
(Insert the words "cash" (\$____), "cashier's check," "certified check," or "bidder's bond,"
in amount equal to at least ten percent of the total of the bid.

The names of all persons interested in the foregoing bid as principals are as follows:

IMPORTANT NOTICE

If bidder or other interested person is a corporation, state its secretary, treasurer, and manager; if a copartnership, state true name of firm, also names of all individual copartners composing firm; if bidder or other interested party is an individual, state first and last names in full.

President- Sebastian Swierstok

Secretary- Eric Javier

Treasurer- Oliwia Swierstok

License in accordance with an act providing for the registrations of contractors.

License No. 884897 License Expiration Date 07/31/2025

Classification(s) A, B, C-33, C-36

DIR Registration #: 1000005478

CA Tax Identification #: 47-2781839

ADDENDA-BID

This bid is submitted with respect to the changes to the contract included in addenda number/s

1

(Fill in addenda numbers if addenda have been received and insert, in this bid, any Engineer's Estimate sheets that were received as part of the addenda.)

Addendum or addenda issued by the County must be noted above.

By my signature on this bid I certify, under penalty of perjury under the laws of the State of California, that the foregoing questionnaire and statements of Public Contract Code sections 6109, 10162, 10232 and 10285.1 are true and correct and that the bidder has complied with the requirements of section 11102 (former section 8103) of the Civil Rights Department (Chapter 5, Title 2 of the California Code of Regulations). By my signature on this bid I further certify, under penalty of perjury under the laws of the State of California and the United States of America, that the Noncollusion Affidavit required by Title 23 United States Code, section 112 and Public Contract Code section 7106; and Title 2 Code of Federal Regulations, Part 200, App II(H), 2 C.F.R. 200.214 Suspension and Debarment Certification are true and correct.

Date: May 15, 2025

Signature and Title of Bidder

OLIWIA SWIERSTOK

Treasurer

Business Address 7030 Drywood Way, Orangevale, CA 95662

Place of Business 7030 Drywood Way, Orangevale, CA 95662

Place of Residence 7030 Drywood Way, Orangevale, CA 95662

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REVISED Dated April 29, 2025

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That Swierstok Enterprise, Inc., dba Pro Builders, as Principal, and Great American Insurance Company, a Corporation, organized and existing under and by virtue of the laws of the State of Ohio and authorized to do surety business in the State of California, as Surety, are held and firmly bound unto the **County of Solano**, State of California, as Oblige, in the sum of _____ Dollars (\$ 10%), for ten percent of amount bid, for the payment of which sum well and truly to be made, we, and each of us, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that whereas the Principal has submitted a bid to the **County of Solano**, State of California, for all work specifically described in the accompanying bid;

**RIO VISTA CORPORATION YARD PROJECT PHASE 2 &
SOLANO COUNTY DOIT BENICIA SHELTER**

NOW, THEREFORE, if the aforesaid Principal is awarded the contract, and within the time and manner required under the specifications, after the prescribed forms are presented to him for signature, enters into a written contract, in the prescribed form, in accordance with the bid, and files two bonds with the Oblige, one to guarantee faithful performance of the contract and the other to guarantee payment for labor and materials as provided by law, or if the said Principal shall fully reimburse and save harmless the Oblige from any damage sustained by the Oblige through failure of the Principal to enter into the written contract and to file the required performance and labor and material bonds, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect.

In the event suit is brought upon this bond by the Oblige and judgment is recovered, the Surety shall pay all costs incurred by the Oblige in such suit, including a reasonable attorney's fee to be fixed by the Court.

IN WITNESS WHEREOF, we have hereunto set our hands and seal this 14 day of MAY, 2025.

Swierstok Enterprise, Inc., dba Pro Builders

Great American Insurance Company

By: SEBASTIAN SWIERSTOK
Principal (Seal)

By: James D. Einerson
Surety (Seal)

James D. Einerson, Attorney-in-Fact

NOTE:

- (1) Signatures of those executing for the surety must be properly acknowledged.
- (2) This bond must be in an amount equal to at least ten (10%) percent of the amount bid.
- (3) Bidders must use this form unless the surety company form is substantially the same.

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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)

COUNTY OF _____)

On _____ before me, _____ Notary
Date Insert Name and Title of the officer

Public, personally appeared _____

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent attachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signers Name: _____

☐ Corporate Officer – Title(s) _____

☐ Partner - ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

Signers Name: _____

☐ Corporate Officer – Title(s) _____

☐ Partner - ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Sacramento

On May 14, 2025 before me, Gail C. Einerson, Notary Public
(insert name and title of the officer)

personally appeared -----James D. Einerson, Attorney-in-Fact-----
who proved to me on the basis of satisfactory evidence to be the person(●) whose name(●) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(●) on the instrument the
person(●), or the entity upon behalf of which the person(●) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Gail C. Einerson (Seal)



GREAT AMERICAN INSURANCE COMPANY®

Administrative Office: 301 E 4TH STREET • CINCINNATI, OHIO 45202 • 513-369-5000 • FAX 513-723-2740

The number of persons authorized by
this power of attorney is not more than **THREE**

No. 0 14660

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below, each individually if more than one is named, its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below.

Name	Address	Limit of Power
JAMES D. EINERSON	ALL OF	ALL
GAIL C. EINERSON	GOLD RIVER, CALIFORNIA	\$100,000,000
MICHELLE FURNO		

This Power of Attorney revokes all previous powers issued on behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this **2ND** day of **DECEMBER**, 2020
Attest
GREAT AMERICAN INSURANCE COMPANY



Atty L C. B.
Assistant Secretary

Mark V. Vicario
Divisional Senior Vice President

MARK VICARIO (877-377-2405)

STATE OF OHIO, COUNTY OF HAMILTON - ss:

On this **2ND** day of **DECEMBER**, 2020, before me personally appeared **MARK VICARIO**, to me known, being duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.



SUSAN A KOHORST
Notary Public
State of Ohio
My Comm. Expires
May 18, 2025

Susan A Kohorst

This Power of Attorney is granted by authority of the following resolutions adopted by the Board of Directors of Great American Insurance Company by unanimous written consent dated June 9, 2008.

RESOLVED: That the Divisional President, the several Divisional Senior Vice Presidents, Divisional Vice Presidents and Divisional Assistant Vice Presidents, or any one of them, be and hereby is authorized, from time to time, to appoint one or more Attorneys-in-Fact to execute on behalf of the Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; to prescribe their respective duties and the respective limits of their authority; and to revoke any such appointment at any time.

RESOLVED FURTHER: That the Company seal and the signature of any of the aforesaid officers and any Secretary or Assistant Secretary of the Company may be affixed by facsimile to any power of attorney or certificate of either given for the execution of any bond, undertaking, contract of suretyship, or other written obligation in the nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

CERTIFICATION

I, **STEPHEN C. BERAHA**, Assistant Secretary of Great American Insurance Company, do hereby certify that the foregoing Power of Attorney and the Resolutions of the Board of Directors of June 9, 2008 have not been revoked and are now in full force and effect.

Signed and sealed this **14** day of **May**, 2025



Atty L C. B.
Assistant Secretary

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REVISED Dated April 29, 2025

BIDDER INFORMATION SHEET

Bidder must check one of the following classifications which fits its type of business organization and furnish all information required under that classification.

Please type or print your answers.

☐ **BIDDER IS AN INDIVIDUAL**

Bidder's name as it appears on State Contractor's License is:

☐ **BIDDER IS A PARTNERSHIP**

Bidder's firm name, individual or partnership, as it appears on State Contractor's License is:

The full names of all the partners as they appear on State Contractor's License are:

County in which any Certificate of Doing Business Under Fictitious Name is Filed (If none, so state).

☒ **BIDDER IS A CORPORATION**

The full name of the corporation as it appears on the State Contractor's License is:

Swierstok Enterprise, Inc. DBA Pro Builders

Corporation is incorporated in the State of: California

REVISED Dated April 29, 2025

STATEMENT OF EXPERIENCE OF BIDDER

The bidder is required to state what work of similar magnitude or character he or she has done, and to give reference that will enable the County to judge of his experience, skill and business standing and of his or her ability to conduct the work as completely and as rapidly as required under the terms of the contract documents. In each instance, given the nature of the work performed, for whom, amount of contract, dates of work, and the name of architect, Engineer, or other supervising person for the County or public agency. If additional space is needed, use and attach additional sheets.

The bidder will submit a narrative describing how the Consultant will perform the required services. This narrative should show a detailed outline of the major tasks involved, the project staffing plan, and the amount of time required for major milestone.

-----PLEASE SEE ATTACHED SEPARATE SHEET-----

SWIERSTOK ENTERPRISE, INC., dba PRO BUILDERS
7030 DRYWOOD WAY, ORANGEVALE, CA 95662
CSLB LIC: 884897- A,B,C33,C36 DIR REGISTRATION 1000005478

REFERENCES & SAMPLE OF COMPLETED PROJECTS-

FOOTHILL RANCH MS HARDCOURT REPLACEMENT

OWNER: TWIN RIVERS UNIFIED SCHOOL DISTRICT

SCOPE: REPLACEMENT OF 160 000 SF OF HARDCOURT AND PARKING , GRADING, NEW UTILITIES

FLATWORK, FENCING, ELECTRICAL, LANDSCAPING, ETC, EQUIPMENT

PROJECT VALUE: \$3,500,000 COMPLETED: 09/2024

PROJECT MANAGER: CHRIS RODRIGUEZ, 916.413.4660, email- crodriguez@kitchell.com

GRANT HIGH SCHOOL COURTYARD AND LANDSCAPING PROJECT

OWNER: TWIN RIVERS UNIFIED SCHOOL DISTRICT

SCOPE: REPLACEMENT OF TWO INSIDE COURTYARDS, DEMO , GRADING, NEW UTILITIES

FLATWORK, LANDSCAPING, STEEL WORK, SYNTETHIC TURF

PROJECT VALUE: \$2,107,000 COMPLETED: 09/2024

PROJECT MANAGER: OLEG KOVALEV, 724.831.2207, email- oleg@greystonewest.co

ABLE CHARTER SCHOOL TI, ADMIN AND ANNEX BUILDING

216/217

OWNER: ABLE CHARTER SCHOOLS, STOCKTON, CA

SCOPE: MAJOR INTERIOR RETROFIT AND RECONSTRUCTION OF EXISTING BUILDINGS

PROJECT VALUE: \$2,829,730 COMPLETED: 12/31/2022

PROJECT MANAGER: DON RUHSTALLER, 209.478.1600, Donald.Ruhstaller@ablecharter.com

PROJECT INSPECTOR: JOHN WONG, 209.298.8989, Jwinspector@msn.com

ACCESS BARRIER REMOVAL

211

OWNER: DEPARTMENT OF GENERAL SERVICES

SCOPE: REMOVE EXISTING ARCHITECTURAL BARRIERS: ENTRANCE DOOR LANDING, AUTOMATIC DOORS

BACKUP POWER, DRINKING FOUNTAINS, RESTROOM CLEARANCES, LAVATORY HEIGHTS AND PIPE

PROTECTION, SHOWERS AND LOCKER ROOMS, SIGNAGE,

PROJECT VALUE: \$1,996,264 COMPLETED: 12/31/2023

PROJECT DIRECTOR: BRETT BILLINGSLEY, 916.375.4134, EMAIL: Brett.Billingsley@dgs.ca.gov

CAC PUBLIC FOUNTAIN UPGRADE

209

OWNER: SOLANO COUNTY

SCOPE: DEMO EXISTING SUMP PUMP AND VARIOUS PLUMBING WORK. ASSOCIATED WORK INCLUDES
CONCRETE, ELECTRICAL, EARTHWORK, FENCING AND REINFORCING STEEL

PROJECT VALUE: \$606,548 COMPLETED: APR 2022

PROJECT MANAGER: TONY EXPOSO, PROJECT MANAGER, ATEsposo@SolanoCounty.com

MORRISON CREEK LIGHT RAIL STATION

197

OWNER: SACRAMENTO REGIONAL TRANSIT DISTRICT

SCOPE: COMPLETE IMPROVEMENTS FOR NEW STATION: WATER DISTRIBUTION SYSTEM, CAST IN PLACE CONCRETE, SIGNAGE, DETECTABLE WARNING SIGN INSTALLATION, CONCRETE STRUCTURES, METAL FABRICATION, PAINTS AND COATINGS, ELECTRICAL, LIGHTING AND LANDSCAPING AND IRRIGATION WORK.

PROJECT VALUE: \$1,363.563 COMPLETED: 08/2021

CONSTRUCTION MANAGER: ERIC OPARKO, 916.557.4677

TRACY MUNICIPAL AIRPORT RDA IMPROVEMENTS

195

OWNER: CITY OF TRACY

SCOPE: EXCAVATION AND INSTALLATION OF PREFABRICATED RESTROOM STRUCTURES, CONNECTION OF UTILITIES, LANDSCAPING, PAVING AND MINOR CONCRETE WORK.

PROJECT VALUE: \$749,090 COMPLETED: JUNE 2021

CONSTRUCTION MANAGER: L MAZARIEGOS, 209.831.6467, leisser.mazariegos@cityoftracy.org

PRIMARY SCUM CONCENTRATOR REPLACEMENT

183

OWNER: CITY OF STOCKTON

SCOPE: REMOVAL AND DISPOSAL OF THE EXISTING PRIMARY SCUM CONCENTRATOR, PROCUREMENT AND INSTALL NEW CONCENTRATOR AND RELATED WORK.

PROJECT VALUE: \$621,00 COMPLETED: NOV 2020

PRINCIPAL ENGINEER: ALI GHAREGOZLOO, (209) 937.8787, ali.gharegozloo@stocktonca.gov

LEACHATE RISERS- LANDFILL MODULES

179

COUNTY OF PLACER

SCOPE: CONSTRUCTION OF DRILLING PAD, FURNISH AND INSTALL 10" DIAMETER HDPE PIPE, CONSTRUCT ALL WEATHER VEHICULAR ACCESS ROAD.

PROJECT VALUE: \$134,193 COMPLETED: MAR 2020

PROJECT MANAGER: KEITH SCHMIDT, P.E. 916.543.3986 or kschmidt@placer.ca.gov

UNION STADIUM CONCRETE DECKING REPAIR

158

LOS RIOS COMMUNITY COLLEGE

SCOPE: REMOVE/RECONSTRUCT EXISTING DECKING OF SEATING AREAS, UPGRADE CHAIR LIFT, RAMP, SITTING AREA, LOCKER AND SHOWER ROOMS, AND RELATED WORK

PROJECT VALUE: \$1.2M COMPLETED: SEP 2019

PROJECT MANAGER: REZA MIRMIRAN (916) 477-5678

**RIO VISTA CORPORATION YARD PROJECT PHASE 2 &
SOLANO COUNTY DOIT BENICIA SHELTER**

AGREEMENT

THIS AGREEMENT is entered into in quadruplicate this 18th day of June, 2025, between the **COUNTY OF SOLANO, A POLITICAL SUBDIVISION OF THE STATE OF CALIFORNIA** hereinafter called "County," and **Swierstok Enterprise, Inc. DBA Pro Builders** hereinafter called "Contractor":

WITNESSETH

That for and in consideration of the mutual promises, covenants, agreements and conditions contained in this agreement, the parties agree as follows:

1. Contract Documents:

The complete contract between the parties consists of, and is set forth in, the contract documents. The contract documents consist of: (a) the Notice to Bidders, (b) an accepted Bid Form, (c) this Agreement, (d) accepted Payment and Performance Bonds, (e) the Special Provisions, (f) the Caltrans Standard Plans ("**Standard Plans**") 2018, (g) the Caltrans Standard Specifications ("**Standard Specifications**") 2018 pages 1 through 1260, (h) Revised Caltrans Standard Specifications 2018 Dated 10/18/2019 and (i) the Contract Plans. All obligations of the parties are contained in the contract documents, and by their acceptance of this Agreement, the parties agree to be bound by all the provisions of all of the documents. All of the documents are intended to cooperate so that any work called for in one and not mentioned in the other or vice versa, is to be executed the same as if mentioned in all of them.

2. The Work:

Contractor agrees to furnish all tools, equipment, apparatus, facilities, labor, materials, and all utility and transportation services to perform and complete in a good and workmanlike manner (for the prices hereinafter set forth), the work of the

**RIO VISTA CORPORATION YARD PROJECT PHASE 2 &
SOLANO COUNTY DOIT BENICIA SHELTER**

project, and other work as called for, and in the manner designated in, and in strict conformance with the contract documents adopted by the County as prepared by the Engineer. The work shall be performed and completed as required in the plans, drawings, and specifications under the direction and supervision of, and subject to the approval of the Engineer, or designated representative.

3. Location of Work:

The work to be performed is at 940 St. Francis Way in Rio Vista, CA and near 221 Panorama Dr in Benicia, CA

4. Time for Completion:

The work under this contract for both project sites shall be completed within **ONE HUNDRED AND TWENTY WORKING DAYS**.

The DOIT Benicia Shelter Project work under this contract shall be completed within the first **THIRTY WORKING DAYS**.

5. Contract Price:

As compensation agreed upon for the work, County shall pay or cause to be paid to Contractor, in full, as and for the full contract price and compensation for the construction and completion of the work, the sum of **Two Million Five Hundred Forty-Eight Thousand Five Hundred Five Dollars and 00/100 (\$)** 2,548,505.00 which sum is to be paid according to the schedule hereinafter provided and subject to additions and deductions as provided in the contract documents.

6. Payment of Wages:

The State General Prevailing Wage Rates are made a part of this contract. It is further expressly agreed between the parties that should there be any conflict between the terms of this instrument and the bid of the Contractor, then this instrument shall control and nothing shall be considered as an acceptance of the terms of the bid conflicting with it.

7. Workers' Compensation:

By my signature hereunder, as Contractor, I certify that I am aware of the provisions of section 3700 of the Labor Code which requires every employer to be insured against liability for workers compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

8. Integration:

It is further expressly agreed between the parties that should any conflict arise between the terms of this contract and the bid of the Contractor; this contract shall control, and nothing shall be considered as an acceptance of the terms of the bid that conflict with it.

REVISED Dated April 29, 2025

9. Execution of Agreement:

SOLANO COUNTY:

By: 

James Bezek

Director of Resource Management

Date: 6.18.2025

CONTRACTOR:

By:  SEBASTIAN SUERSTOR

TITLE: PRESIDENT

Licensed in accordance with an act providing
for the registration of contractors

Date: 6/21/2025

Contractor's License No. 884897

Business License No. 1031795

City and County of
Business License

SACRAMENTO

APPROVED AS TO FORM:

County Counsel of Solano County, California

By:  Deputy

Note: Attach to this Agreement a certified copy of the resolution, minute order, or excerpt of the minutes of the County authorizing the execution of this Agreement.

If the Contractor is a corporation, attach to this contract a certified copy of the by-laws, resolutions, or excerpt of the minutes of a meeting of the board of directors of the corporation authorizing the person executing this Agreement to do so for the corporation.

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PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS,

THAT WHEREAS, the **COUNTY OF SOLANO, A POLITICAL SUBDIVISION OF THE STATE OF CALIFORNIA**, hereinafter called the "County," has awarded to Swierstok Enterprise, Inc., dba Pro Builders as Principal, hereinafter designated as the "Contractor," a contract for the work described as follows:

**RIO VISTA CORPORATION YARD PROJECT PHASE 2 &
SOLANO COUNTY DOIT BENICIA SHELTER (the "Project")**

WHEREAS, the work to be performed by the Contractor is more particularly set forth in the contract for the Project dated May 28, 2025, (hereinafter referred to as "Contract Documents"), the terms and conditions of which are expressly incorporated herein by reference; and

AND WHEREAS, the Contract Documents requires Contractor to perform the terms thereof and to furnish a bond for the faithful performance of the Contract Documents;

NOW, THEREFORE, we, the undersigned Contractor and Great American Insurance Company as Surety, a corporation organized and duly authorized to transact business under the laws of the State of California, are held and firmly bound unto the County, in the sum of Two million five hundred forty-eight thousand five hundred five & no/100 Dollars (\$ 2,548,505.00) said sum being not less than one hundred percent (100%) of the total amount of the Contract Documents, for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly by these presents.

THE CONDITION of this obligation is such, that if the above bounden Contractor, their or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the foregoing Contract Documents and any alteration thereof made as therein provided, or their part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the County, its officers and agents, as therein stipulated, then this obligation shall become and be null and void; otherwise, it shall be and remain in full force and effect.

As a part of the obligation secured hereby and in addition to the face amount specified therefore, there shall be included costs and reasonable expenses and fees including reasonable attorney's fees, incurred by the County in enforcing such obligation.

As a condition precedent to the satisfactory completion of the Contract Documents, unless otherwise provided for in the Contract Documents, the above obligation shall hold good for a period of one year after the acceptance of the work by the County, during which time if Contractor shall fail to make full, complete, and satisfactory repair and replacements and totally protect the County from loss or damage resulting from or caused by defective materials or faulty workmanship. The obligations of Surety

hereunder shall continue so long as any obligation of Contractor remains. Nothing herein shall limit the County's rights or the Contractor or Surety's obligations under the Contract, law or equity, including, but not limited to, California Code of Civil Procedure Section 337.15.

Whenever Contractor shall be, and is declared by the County to be, in default under the Contract Documents, the Surety shall remedy the default pursuant to the Contract Documents, or shall promptly, at the County's option:

- i. Take over and complete the Project in accordance with all terms and conditions in the Contract Documents; or
- ii. Obtain a bid or bids for completing the Project in accordance with all terms and conditions in the Contract Documents and upon determination by Surety of the lowest responsive and responsible bidder, arrange for a contract between such bidder, the Surety and the County, and make available as work progresses sufficient funds to pay the cost of completion of the Project, less the balance of the contract price, including other costs and damages for which Surety may be liable. The term "balance of the contract price" as used in this paragraph shall mean the total amount payable to Contractor by the County under the Contract and any modification thereto, less any amount previously paid by the County to the Contractor and any other set offs pursuant to the Contract Documents.
- iii. Permit the County to complete the Project in any manner consistent with California law and make available as work progresses sufficient funds to pay the cost of completion of the Project, less the balance of the contract price, including other costs and damages for which Surety may be liable. The term "balance of the contract price" as used in this paragraph shall mean the total amount payable to Contractor by the County under the Contract and any modification thereto, less any amount previously paid by the County to the Contractor and any other set offs pursuant to the Contract Documents.

Surety expressly agrees that the County may reject any contractor or subcontractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Contractor.

Surety shall not utilize Contractor in completing the Project nor shall Surety accept a bid from Contractor for completion of the Project if the County, when declaring the Contractor in default, notifies Surety of the County's objection to Contractor's further participation in the completion of the Project.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract Documents or to the Project to be performed thereunder shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract Documents or to the Project.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 2 day of
June, 2025.

Swierstok Enterprise, Inc., dba Pro Builders

By: SEBASTIAN SWIERSTOK
Principal (Seal)

Great American Insurance Company

By: James D. Einerson
Surety (Seal)
James D. Einerson, Attorney-in-Fact

NOTE:

- (1) Signatures of those executing for the surety must be properly acknowledged.
- (2) This bond must be in an amount equal to one hundred percent (100%) of the amount bid.
- (3) Bidders must use this form unless the surety company form is substantially the same.

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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA }

COUNTY OF _____

On _____ before me , _____ Notary
Date Insert Name and Title of the officer

Public, personally appeared _____

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent attachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signers Name: _____

☐ Corporate Officer – Title(s) _____

☐ Partner - ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

Signers Name: _____

☐ Corporate Officer – Title(s) _____

☐ Partner - ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Sacramento

On June 7, 2025 before me, Gail C. Einerson, Notary Public
(insert name and title of the officer)

personally appeared -----James D. Einerson, Attorney-in-Fact-----,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Gail C. Einerson (Seal)



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PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS,

THAT WHEREAS, **COUNTY OF SOLANO, A POLITICAL SUBDIVISION OF THE STATE OF CALIFORNIA**, hereinafter called the "County," has awarded to Swierstok Enterprise, Inc., dba Pro Builders, as Principal, hereinafter designated as the "Contractor," a contract (the "Contract") for the work described as follows:

**RIO VISTA CORPORATION YARD PROJECT PHASE 2 &
SOLANO COUNTY DOIT BENICIA SHELTER (the "Project")**

The Contract is incorporated by this reference into this Payment Bond.

AND, WHEREAS, the Contractor is required to furnish a bond in connection with the Contract and pursuant to California Civil Code section 9550 to secure the payment of claims of laborers, mechanics, materialmen, and other persons as provided by law:

NOW, THEREFORE, we, the undersigned Contractor and Great American Insurance Company ("Surety"), a corporation organized and existing under the laws of the State of Ohio, and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the County in the amount required by law, in the sum of Two million five hundred forty-eight thousand five hundred five & no/100 Dollars (\$ 2,548,505.00) for which payment well and truly to be made we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Contractor, their or its heirs, executors, administrators, successors or assigns, or subcontractors shall fail to pay any of the persons referred to in Civil Code section 9100, or fail to pay for any materials, provisions, or other supplies, used in, upon, for, or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Code with respect to work or labor performed by any such claimant, or amounts due the Franchise Tax Board as provided in Civil Code section 9554, or shall fail to deduct, withhold, and pay over to the Employment Development Department, any amounts required to be deducted, withheld, and paid over by Unemployment Insurance Code Section 13020 with respect to work and labor thereon of any kind, that the Surety will pay for the same, in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In case suit is brought on this bond, the said surety will pay a reasonable attorney's fee to be fixed by the court.

This bond shall inure to the benefit of any of the persons referred to in Civil Code section 9100 so as to give a right of action to such persons or their assigns in any suit brought upon this Bond. Any such right of action shall be subject to the provisions of Civil Code section 9566.

PROVIDED, FURTHER, it is further stipulated and agreed that the Surety of this bond shall not be

exonerated or released from the obligation of the bond by any change, extension of time for performance, addition, alteration or modification in, to, or of any contract, plans, or specifications, or agreement pertaining or relating to any scheme or work of improvement herein above described; or pertaining or relating to the furnishing of labor, materials, or equipment therefor; nor by any change or modification of any terms of payment or extension of time for payment pertaining or relating to any scheme or work of improvement herein above described; nor by any rescission or attempted rescission of the contract, agreement or bond; nor by any conditions precedent or subsequent in the bond attempting to limit the right of recovery of claimants otherwise entitled to recover under any such contract or agreement or under the bond; nor by any fraud practiced by any person other than the claimant seeking to recover on the bond; and that this bond be construed most strongly against the Surety and in favor of all persons for whose benefit such bond is given; and under no circumstances shall the Surety be released from liability to those for whose benefit such bond has been given, by reason of any breach of contract between the Owner and Contractor/Principal or on the part of any obligee named in such bond; that the sole condition of recovery shall be that the claimant is a person described in California Civil Code section 9100, and who has not been paid the full amount of his or her claim; and that the Surety does hereby waive notice of any such change, extension of time, addition, alteration or modification herein mentioned, including but not limited to the provisions of sections 2819 and 2845 of the California Civil Code.

PROVIDED, FURTHER, that no final settlement between the County and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 2 day of
June, 2025.

Swierstok Enterprise, Inc., dba Pro Builders

Great American Insurance Company

By: SEBASTIAN SWIERSTOK
Principal (Seal)

By: James D. Einerson
Surety (Seal)

NOTE:

James D. Einerson, Attorney-in-Fact

- (1) Signatures of those executing for the surety must be properly acknowledged.
- (2) This bond must be in an amount equal to one-hundred percent (100%) of the amount bid.
- (3) Bidders must use this form unless the surety company form is substantially the same.

REVISED Dated April 29, 2025

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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)

COUNTY OF _____

On _____ before me, _____ Notary
Date Inact Name and Title of the officer

Public, personally appeared _____

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent attachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signers Name: _____

☐ Corporate Officer - Title(s) _____

☐ Partner ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

Signers Name: _____

☐ Corporate Officer - Title(s) _____

☐ Partner ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Sacramento

On June 2, 2025 before me, Gail C. Einerson, Notary Public
(insert name and title of the officer)

personally appeared -----James D. Einerson, Attorney-in-Fact-----,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in
his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature Gail C. Einerson (Seal)



GREAT AMERICAN INSURANCE COMPANY

Administrative Office: 301 E 4TH STREET • CINCINNATI, OHIO 45202 • 513-369-5000 • FAX 513-723-2740

The number of persons authorized by this power of attorney is not more than **THREE**

No. 0 14660

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below, each individually if more than one is named, its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below.

Name	Address	Limit of Power
JAMES D. EINERSON	ALL OF	ALL
GAIL C. EINERSON	GOLD RIVER, CALIFORNIA	\$100,000,000
MICHELLE FURNO		

It is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner - Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

This Power of Attorney revokes all previous powers issued on behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this **15TH** day of **MAY**, 2025

Attest

GREAT AMERICAN INSURANCE COMPANY



Assistant Secretary

My L C. B.

Divisional Senior Vice President

JOHN K. WEBSTER (877-377-2405)

STATE OF OHIO, COUNTY OF HAMILTON - ss:

On this **15TH** day of **MAY**, 2025, before me personally appeared JOHN K. WEBSTER, to me known, being duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.



SUSAN A KOHORST
Notary Public
State of Ohio
My Comm. Expires
May 18, 2030

Susan A Kohorst

This Power of Attorney is granted by authority of the following resolutions adopted by the Board of Directors of Great American Insurance Company by unanimous written consent dated June 9, 2008.

RESOLVED: That the Divisional President, the several Divisional Senior Vice Presidents, Divisional Vice Presidents and Divisional Assistant Vice Presidents, or any one of them, be and hereby is authorized, from time to time, to appoint one or more Attorneys-in-Fact to execute on behalf of the Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; to prescribe their respective duties and the respective limits of their authority; and to revoke any such appointment at any time.

RESOLVED FURTHER: That the Company seal and the signature of any of the aforesaid officers and any Secretary or Assistant Secretary of the Company may be affixed by facsimile to any power of attorney or certificate of either given for the execution of any bond, undertaking, contract of suretyship, or other written obligation in the nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

CERTIFICATION

I, STEPHEN C. BERAHA, Assistant Secretary of Great American Insurance Company, do hereby certify that the foregoing Power of Attorney and the Resolutions of the Board of Directors of June 9, 2008 have not been revoked and are now in full force and effect.

Signed and sealed this **2** day of **June**, 2025



Assistant Secretary

My L C. B.

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REVISED Dated April 29, 2025

STATE GENERAL PREVAILING WAGE RATES

The State Prevailing Wage Rates are available for review at the California Department of Industrial Relations Internet Web Site at the following location:

<https://www.dir.ca.gov/Public-Works/Prevailing-Wage.html>

See Important Special Notice in this bid document.

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**COUNTY OF SOLANO
STATE OF CALIFORNIA**

**RIO VISTA CORPORATION YARD PROJECT PHASE 2 &
SOLANO COUNTY DOIT BENICIA SHELTER
DIVISION I GENERAL PROVISIONS**

1 GENERAL

1-1.01 GENERAL

The Solano Public Works Division is dedicated to maintaining and enhancing the infrastructure within Solano County. This includes the upkeep of roadways, shoulders, signage, drainage systems, culverts, bridges, and vegetation management within the county right of way. With a workforce of over 100 skilled professionals, the Public Works Department operates out of three corporation yards strategically located throughout the county. These facilities are integral to ensuring that Solano County's roads remain safe, reliable, and well-maintained for all residents and visitors.

The Solano Public Works Division is embarking on a significant infrastructure project aimed at enhancing its operational capabilities. The Contractor will oversee the construction of a new prefabricated metal garage structure at the Solano County Public Works Corporation Yard, located at 940 St. Francis Way in Rio Vista. Other work includes construction of new utility connections, and new parking and ADA additions. This project is a key component of the Division's ongoing efforts to improve service delivery and operational efficiency.

Solano County, in partnership with Vacaville, Fairfield, and Suisun City, operate a modern P25 simulcast Public Safety Communication (PSC) system in the northern part of the County. The southern portion of the County is covered by the East Bay Regional Communications System Authority (EBRCSA) which presents operational challenges to the Sheriff's Department and other public safety agencies when responding to calls and offering mutual aid. P25 provides the Sheriff with interoperable and effective cost containment/avoidance, enhanced spectrum efficiency, and operational benefits of multi-jurisdictional, regional, and shared systems environments.

The use of EBRCSA by the police and fire departments of Vallejo and Benicia was intended to be a stop-gap measure until Solano County was able to implement a full P25 solution for the region. This contractor will provide site work and placement of a new shelter for the Southampton (Benicia) tower site. The existing shelter is over twenty years old and requires critical replacement before installing new P25 equipment. Solano County DoIT has purchased the new shelter. This contract is needed for placement of the new shelter.

The DOIT Benicia Shelter will be conducted in two phases. The initial phase will include grading, foundation installation, placement of the prefabricated pre-purchased shelter, and utility work. The Contractor will coordinate the delivery of the modular building with the Engineer. The project will then be suspended for utility owners to install the new P25 system. Approximately 1-2 months later, the Contractor will be required to remobilize to remove the old structure and foundation.

The contractor shall have an allowance of up to \$100,000 for approved change orders to cover unanticipated work or adjustments to the scope of the project. Change orders must be documented in writing and approved by the Engineer prior to commencement of the associated work. This allowance is not guaranteed for full use and will be authorized only as needed to address changes that align with the contract's terms and project objectives. The contractor must provide a detailed cost breakdown and justification for each change order request. All unused funds within this allowance will remain with the owner and shall not be claimed by the contractor.

The work described shall be done in accordance with the Caltrans Standard Specifications 2018, Revised Caltrans Standard Specifications 2018 Dated 10/18/2019, and the Caltrans Standard Plans 2018, insofar as the same may apply and in accordance with the following Special Provisions.

The Caltrans Standard Specifications and Standard Plans are made a part of the Contract with the County of Solano providing the following modifications unless the Special Provisions indicate that they amend or replace the Standard Specifications, they shall be deemed to supplement.

Wherever the Standard Specifications refer to requirements, conditions, provisions, and laws that are applicable to the State of California rather than County governments, said references shall be construed as references to corresponding requirements, conditions, provisions, and laws, which are applicable to the and the County of Solano.

County: County of Solano/Solano County

Department: Dept. of Resource Management, Solano County

Director: Director of Resource Management, Solano County

Engineer: Engineering Manager or other designated representative

State: Includes County of Solano, a political subdivision of the State

State Contract Act: All applicable statutes and laws pertaining to the award and execution of construction contracts by the County, including those set forth in Section 3 of these Special Provisions, and any other sections which may pertain.

No work shall be done on Saturdays, Sundays, County and State holidays or during hours of darkness, except such work as is necessary for the proper care and protection of work already performed, or except in a case of an emergency, and in any case, only with the written permission of the Engineer.

Should unauthorized work be performed on a Saturday, Sunday, County holiday or during hours of darkness, the Contractor shall pay Solano County a \$1,000 penalty for each day or portion of a day on which such work is performed.

County holidays are defined as follows: New Year's Day, Martin Luther King's Birthday, Lincoln's Birthday, President's Day/Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day/ Indigenous Peoples' Day, Veteran's Day, Thanksgiving Day and Day After Thanksgiving Day, Christmas Eve, Christmas Day and New Year's Eve.

2 BIDDING

2-1.01 GENERAL

The bidder's attention is directed to the provisions in Section 2, "Bidding" of the Standard Specifications and these Special Provisions for the requirements and conditions which they must observe in the preparation of the bid form and the submission of the bid.

The lowest bid shall be the lowest total of the bid prices on the base contract and the deductive bid item.

Each bidder shall be licensed by the time of award of contract in accordance with the provisions of the Contractor's License Law as contained in Chapter 9, Division 3 of the Business and Professions Code (commencing with §7000), and any acts amendatory thereof, and shall be skilled and regularly engaged in the general class or type of work called for under these contract documents. The Contractor shall possess a Class A license at the time the contract is awarded.

The contractor will include in their bid package a narrative of their firm experience, similar and relevant project experience, their safety record, project team description and qualifications, project approach/management, and proposed schedule.

In addition to the subcontractors required to be listed in conformance with Section 2-1.33C, "Subcontractor List," of the Standard Specifications, each bid shall have listed therein the portion of work that will be done by each subcontractor listed. A sheet for listing the subcontractors is included in the bid. **NOTE:** Contractor shall signify if a Subcontractor will be performing only a portion of a contract bid item by placing the word "Partial" next to the Subcontractor's name.

The Contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26.5 in the award and administration of DOT assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate. Each subcontract signed by the bidder must include this assurance.

In conformance with Public Contract Code section 7106, a Noncollusion Affidavit is included in the bid. Signing the bid shall also constitute signature of the Noncollusion Affidavit.

Failure of the bidder to fulfill the requirements of the Special Provisions for submittals required to be furnished after the bid opening, including but not limited to escrowed bid documents, where applicable, may subject the bidder to a determination of the bidder's responsibility in the event it is the apparent low bidder on a future public works contract.

2-1.07 JOB SITE AND DOCUMENT EXAMINATION

The bidder shall examine carefully the site of the work contemplated, the plans and specifications, and the bid and contract forms. The submission of a bid shall be conclusive evidence that the bidder has investigated and is satisfied as to the general and local conditions to be encountered, as to the character, quality and scope of work to be performed, the quantities of materials to be furnished and as to the requirements of the bid, plans, specifications and the contract.

The submission of a bid shall also be conclusive evidence that the bidder is satisfied as to the character, quality and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information was reasonably ascertainable from an inspection of the site and the records of exploratory work done by the County as shown in the bid documents, as well as from the plans and specifications made a part of the contract.

Where the County has made investigations of site conditions including subsurface conditions in areas where work is to be performed under the contract, or in other areas, some of which may constitute possible local material sources, bidders or contractors may, upon written request, inspect the records of the County as to those investigations subject to and upon the conditions hereinafter set forth.

Where there has been prior construction by the County or other public agencies within the project limits, records of the prior construction that are currently in the possession of the County and which have been used by, or are known to, the designers and administrators of the project will be made available for inspection by bidders or contractors, upon written request, subject to the conditions hereinafter set forth. The records may include, but are not limited to, as-built drawings, building calculations, foundation and site studies, project reports and other data assembled in connection with the investigation, design, construction and maintenance of the prior projects.

Inspection of the records of investigations and project records may be made at the office of the County.

When a log of test borings or other record of geotechnical data obtained by the County's investigation of surface and subsurface conditions is included with the contract plans, it is furnished for the bidders' or Contractor's information and its use shall be subject to the conditions and limitations set forth in this Section 2-1.03. Solano County will provide the log of test boring for the DOIT Benicia site.

When cross sections are not included with the plans, but are available, bidders or contractors may inspect the cross sections and obtain copies for their use, at their expense.

When cross sections are included with the contract plans, it is expressly understood and agreed that the cross sections do not constitute part of the contract, do not necessarily represent actual site

REVISED Dated April 29, 2025

conditions or show location, character, dimensions and details of work to be performed, and are included in the plans only for the convenience of bidders and their use is subject to the conditions and limitations set forth in this Section 2-1.03.

The availability or use of information described in this Section 2-1.03 is not to be construed in any way as a waiver of the provisions of the first paragraph in this Section 2-1.03 and bidders and contractors are cautioned to make independent investigations and examinations as they deem necessary to be satisfied as to conditions to be encountered in the performance of the work and, with respect to possible local material sources, the quality and quantity of material available from the property and the type and extent of processing that may be required in order to produce material conforming to the requirements of the specifications.

The County assumes no responsibility for conclusions or interpretations made by a bidder or contractor based on the information or data made available by the County. The County does not assume responsibility for representation made by its officers or agents before the execution of the contractor concerning surface or subsurface conditions, unless that representation is expressly stated in the contract.

No conclusions or interpretations made by a bidder or contractor from the information and data made available by the County will relieve a bidder or contractor from properly fulfilling the terms of the contract.

Construction surveys shall be furnished by the County in accordance with the California Department of Transportation Surveys Manual.

Attention is directed to Section 12.1-4, "Restaking," of the Survey Manual.

2-1.10 SUBCONTRACTOR LIST

Each bid shall have listed therein the name and address of each design firm and construction subcontractor to whom the bidder proposes to subcontract portions of the work in the amount of ½ of one percent (%) of his total bid or \$10,000, whichever is greater, in accordance with the Subletting and Subcontracting Fair Practices Act, commencing with section 4100 of the Public Contract Code. The bidder's attention is directed to other provisions of said Act related to the imposition of penalties for a failure to observe its provisions by using unauthorized subcontractors or by making unauthorized substitutions.

The required form for listing of subcontractors is included in the bid book and is required to be completed and submitted with the bid.

Solano County's Bidder's List of Subcontractors is required to be completed and submitted by the top three apparent low bidders and is due within 48 hours after bid opening. At the Contractor's option this form may be submitted with the bid.

2-1.34 BIDDER'S SECURITY

Bidder's security required under this article shall be made payable to the County of Solano.

3 CONTRACT AWARD AND EXECUTION

3-1.01 GENERAL

The award of the contract to the lowest responsible bidder whose bid complies with all the requirements prescribed.

The contract shall be executed by the successful bidder and shall be returned, together with the contract bonds, to the Agency so that it is received within 10 days, not including Saturdays, Sundays and legal holidays, after the bidder has received the contract for execution. Failure to do so shall be just cause for forfeiture of the bidder's security and bid submittal.

The executed contract documents shall be delivered to the following address:

Solano County Department of Resource Management
Attn: Matt Tuggle
675 Texas Street, Suite 5500
Fairfield, CA 94533

3-1.03 CONTRACTOR REGISTRATION

No contractor or subcontractor may be awarded a contract for public work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

3-1.05 CONTRACT BONDS (CIVIL CODE §§ 9550-9554)

The Contractor shall provide, at the time of the execution of the agreement or contract for work, at his own expense, a surety bond in an amount equal to at least one hundred percent (100%) of the contract price as security for the faithful performance of said agreement. Contractor shall also provide, at the time of the execution of the agreement or contract for work, and at his own expense, a separate surety bond in the amount equal to at least one hundred percent (100%) of the contract price as security for the payment of all persons performing and furnishing materials in connection with said agreement. Sureties on each of said bonds shall be satisfactory to the County.

3-1.18 CONTRACT EXECUTION

Four (4) sets of the contract shall be signed by the successful bidder and returned along with four (4) sets of each of the bonds and insurance certificates, as provided within ten days, not including

REVISED Dated April 29, 2025

Saturdays, Sundays or legal holidays after the bidder has received notice from the Director of Resource Management that the contract has been awarded and is ready for signature. No bid shall be considered binding upon the County until such execution of the contract. Further, if the successful bidder is a corporation, a certified copy of the bylaws, Resolution, or Minute Order of the Board of Directors of the Corporation shall be attached to each of the four (4) sets of the contract specifying the authority of the person executing the contract to do so.

5 CONTROL OF WORK

5-1.02 CONTRACT COMPONENTS

The Revised Caltrans Standard Specifications 2018 Dated 10/18/2019 included with these special provisions are considered part of the contract following the governing ranking order as specified in the standard specifications. Subsequent revisions are not part of the contract.

Supplemental project information shall not be considered part of the contract but is provided for informational purposes only.

5-1.13 SUBCONTRACTING

5-1.13A General

The Contractor shall perform work equaling at least 50% of the value of the original total bid with the Contractor's own employees and equipment, owned or rented, with or without operators.

5-1.26 CONSTRUCTION SURVEYS

County will provide survey for Contractor requested Survey Staking. Survey requests shall be made at least 48 hrs. prior use by the Contractor.

5-1.27 RECORDS

5-1.27A General

All privacy rights in the project records are waived,

5-1.43E Alternative Dispute Resolution

5-1.43E(1) General

Section 5-1.43E in its entirety does not apply to this contract.

5-1.46 FINAL INSPECTION AND CONTRACT ACCEPTANCE

When you complete the work, request the Engineer's final inspection. If the Engineer determines that the work is complete, the Engineer will accept the work, and recommend Contract Acceptance by the Department. Immediately after recommendation of Contract Acceptance, you are relieved from:

1. Maintenance and protection duties
2. Responsibility for injury to persons or property or damage

Formal Contract Acceptance is by order of the Board of Supervisors of the County of Solano of an entire Contract which has been completed in all respects in accordance with the Plans and Specifications and any modifications thereof previously approved.

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

7-1.01 GENERAL

You must notify the County of weekly safety meetings 48 hours in advance and allow for County inspectors to attend the meetings.

7-1.03 PUBLIC CONVENIENCE

Attention is directed to Sections 7-1.03, "Public Convenience," 7-1.04, "Public Safety," and 12, "Temporary Traffic Control," of the Standard Specifications and to the section entitled Public Safety elsewhere in these Special Provisions. Nothing in these Special Provisions shall be construed as relieving the Contractor from his responsibility as provided in said Sections 7-1.03, 7-1.04, and 12 Temporary Traffic Controls.

7-1.04 PUBLIC SAFETY

The Contractor shall install temporary railing (Type K) between a lane open to public traffic and an excavation, obstacle, or storage area when the following conditions exist:

1. Excavations—The near edge of the excavation is 12 feet or less from the edge of the lane, except:
 - a. Excavations covered with sheet steel or concrete covers of adequate thickness to prevent accidental entry by traffic or the public.
 - b. Excavations less than one foot deep.
 - c. Trenches less than one foot deep.
 - d. Excavations parallel to the lane for the purpose of pavement widening or reconstruction. Excavations which are limited to 2" vertical, outside of the existing traveled way may be left overnight, but must be filled to grade the following day.
 - e. Excavations in side slopes, where the slope is steeper than 4:1 (horizontal: vertical).
 - f. Excavations protected by existing barrier or railing.

All excavations within the traveled way must be made flush with the existing surface prior to opening a closure. Edgeline obliterated during widening must be replaced with temporary delineation and maintained until a new surface treatment is installed.

2. Temporarily Unprotected Permanent Obstacles—The work includes the installation of a fixed obstacle together with a protective system, such as sign structure together with

protective railing, and the Contractor elects to install the obstacle prior to installing the protective system; or the Contractor, for the Contractor's convenience and with permission of the Engineer, removes a portion of an existing protective railing at an obstacle and does not replace such railing complete in place during the same day.

3. Storage Area—Material or equipment is stored within 12 feet of the lane and the storage is not otherwise prohibited by the provisions of the Standard Specifications and these Special Provisions.

The approach end of temporary railing (Type K), installed in conformance with the provisions in this Section, "Public Safety" and in Section 7-1.04, "Public Safety" of the Standard Specifications, shall be offset a minimum of 15 feet from the edge of the traffic lane open to public traffic. The temporary railing shall be installed on a skew toward the edge of the traffic lane of not more than one foot transversely to 10 feet longitudinally with respect to the edge of the traffic lane. If the 15 foot minimum offset cannot be achieved, the temporary railing shall be installed on the 10 to 1 skew to obtain the maximum available offset between the approach end of the railing and the edge of the traffic lane, and an array of temporary crash cushion modules shall be installed at the approach end of the temporary railing.

Except for installing, maintaining and removing traffic control devices, whenever work is performed, or equipment is operated in the following work areas, the Contractor shall close the adjacent traffic lane unless otherwise provided in the Standard Specifications and these Special Provisions:

Approach Speed of Public Traffic (Posted Limit)	Work Areas
Over 45 Miles Per Hour	Within 6 feet of a traffic lane but not on a traffic lane
35 to 45 Miles Per Hour	Within 3 feet of a traffic lane but not on a traffic lane

The lane closure provisions of this section shall not apply if the work area is protected by a permanent or temporary railing or barrier.

When traffic cones or delineators are used to delineate a temporary edge of a traffic lane, the line of cones or delineators shall be considered to be the edge of the traffic lane, however, the Contractor shall not reduce the width of an existing lane to less than 10 feet without written approval from the Engineer.

When work is not in progress on a trench or other excavation that required closure of an adjacent lane, the traffic cones or portable delineators used for the lane closure shall be placed off of and adjacent to the edge of the traveled way. The spacing of the cones or delineators shall be not more than the spacing used for the lane closure.

Suspended loads or equipment shall not be moved nor positioned over public traffic or pedestrians.

Full compensation for conforming to the requirements in this section "Public Safety," including furnishing and installing temporary railing (Type K) and temporary crash cushion modules, shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefore.

The Contractor shall be aware that some areas in Solano County are subject to flooding from time to time. The project jobsite may be such an area. The Contractor shall perform all investigations it deems necessary to inform itself of the potential of the jobsite to flood. No additional compensation shall be provided to the Contractor for any delays or damages suffered by the Contractor as a result of flooding of the jobsite, or of any other areas in Solano County.

The Contractor shall be aware that from time to time individuals, private entities, and public agencies release water into, or impound water in, various ditches and creeks in Solano County. The project jobsite may contain such ditches and creeks. The Contractor shall perform all investigations it deems necessary to inform itself whether such water releases or impoundments may occur which could affect the jobsite. The Contractor shall take all necessary actions to protect the project work from such water releases or impoundments. No additional compensation shall be provided to the Contractor for any delays or damages suffered by the Contractor as a result of water releases or impoundments which affect the jobsite. Full compensation for protecting the project work from such water releases or impoundment shall be considered as included in the various contract items of work, and no additional compensation shall be made therefore.

7-1.06 INSURANCE

7-1.06A General

Without limiting the Contractor's obligation to indemnify the County of Solano and the City of Benicia, the Contractor shall maintain and keep in force during the term of this Agreement the following insurances:

1. Bodily Injury and Property Insurance for all activities of the Contractor (and its subcontractors) arising out of or in connection with this Agreement, written on a Commercial General Liability form including, but not limited to, premises and operations, independent contractors, products and completed operations, contractual liability and personal injury, in an amount no less than **Five Million Dollars (\$5,000,000)** combined single limit for each occurrence.
2. Automobile Liability Insurance covering bodily injury and property damage for all activities of the Contractor arising out of or in connection with this Agreement, including coverage for owned, hired, and non-owned vehicles, in an amount no less than **One Million Dollars (\$1,000,000)** combined single limit for each occurrence.
3. Each said commercial general liability and automobile liability insurance policy shall be endorsed with the following specific language:

- a. The County of Solano and City of Benicia, its officers, agents and employees, are named as additional insured for all liability arising out of the operations by or on behalf of the named insured in the performance of this Agreement.
 - b. The inclusion of more than one insured shall not operate to impair the rights of one insured against another insured, and the coverage's afforded shall apply as though separate policies had been issued to each insured.
 - c. The insurance provided is primary and no insurance held or owned by the County of Solano shall be called upon to contribute to a loss.
 - d. If Contractor maintains higher limits than the minimums shown above, County is entitled to coverage for the higher limits maintained by Contractor.
 - e. The coverage provided by this policy shall not be reduced or canceled without 30 days written notice given to the County of Solano.
4. Prior to commencement of any work under this contract, the Contractor shall provide proof of required insurance to the Engineer.
 5. Workers' Compensation insurance as required by the Labor Code of the State of California, for Contractor and employees of Contractor shall be provided by Contractor. All Workers' Compensation policies shall be endorsed with the following specific languages: "This policy shall not be canceled or materially changed without first giving 30 days prior notice to Solano County in writing."

8 PROSECUTION AND PROGRESS

8-1.01 GENERAL

Time is of the essence in completing the work under this contract.

8-1.02 SCHEDULE

8-1.02B Level I Critical Path Method Schedule

8-1.02B(1) General

The Engineer shall issue Milestone Reports for each task for accomplishment as specified in Bid Schedule of these Contract Specification A Milestone Report Proposal shall be submitted by the Consultant for each task. The Proposal will establish a scope, budget and schedule. Upon agreement of the Proposal details, the County will issue the Milestone Report. The Contractor may not begin work on a task before the Milestone Report is executed.

REVISED Dated April 29, 2025

Prior to beginning work, a progress schedule will be provided to Solano County's Construction Engineer for the duration of the construction.

8-1.03 PRE-CONSTRUCTION CONFERENCE

Prior to the issuance of the Notice to Proceed, a Pre-Construction Conference will be held at the office of the Department of Resource Management for the purpose of discussing with the Contractor the scope of work, contract drawings, Specifications, existing conditions, materials to be ordered, equipment to be used, and all essential matters pertaining to the prosecution of and the satisfactory completion of the project as required. The Contractor's representative at this conference shall include all major superintendents for the work and may include major subcontractors.

8-1.04 START OF JOB SITE ACTIVITIES

8-1.04B Standard Start

Section 8-1.04B, "Standard Start," of the Standard Specifications is amended to read:

The County will issue a formal written "Notice to Proceed," after the Contract has been approved, within 20 calendar days after the bid has been awarded. The Contractor shall not begin work within the County right-of-way until they have received a County issued Notice to Proceed. Within five working days after issuance of Notice to Proceed, the Contractor shall begin to prosecute the work at the DOIT Benicia Shelter Project site. The work under this contract shall be completed within the timeframes described below.

Time is of the essence for the DOIT Benicia Shelter Project. Construction of the DOIT Benicia Shelter must be completed first. The grading, foundation, shelter, cable bridge and power provided to the shelter must be installed by July 11th, 2025.

Work must be completed within **ONE HUNDRED AND TWENTY (120)** construction working days for the entirety of the project. The working day count will begin pursuant to Section 8-1.04B of these Specifications.

The DOIT Benicia Shelter Project must be completed within **THIRTY (30)** construction working days. The working day count will begin pursuant to Section 8-1.04B of these Specifications and the 30 days will be suspended when power is provided to the new structure.

Working days for the site work will be tracked according to the Caltrans Standard Specifications. The prefabricated steel structure manufacturing will need to provide the County documentation of any and all delays.

The Contractor must provide a full-time employee who is accountable for the project. This individual is the person in responsible charge of the project. The person in responsible charge of the construction work must be a licensed engineer in the state of California.

The person in responsible charge must perform the following duties:

- Administers inherently governmental project activities including those dealing with cost,

- time, adherence to contract requirements, construction quality, and scope
 - Maintains familiarity of the day-to-day project operations, including project safety issues
 - Makes or participates in decisions about changed conditions or scope changes that require change orders or supplemental agreements
 - Visits and reviews the project site at a minimum, weekly, and on a more frequency that is commensurate with the magnitude and complexity of the operations at hand.
 - Provide County staff with weekly reports detail construction operations, potential issues, and scheduling
 - Reviews financial processes, transactions, and documentation to ensure that safeguards are in place to minimize fraud, waste, and abuse
 - Informs County staff to carry out project administration and contract oversight, including proper documentation
 - Maintains awareness of the qualification assignments and on-the-job performance of the construction contractor
- Maintain project records that support the adequacy of the field supervision, inspection, testing, conformance to contract specification, and payments to the construction contractor.

8-1.10 LIQUIDATED DAMAGES

8-1.10A General

The liquidated damages amount prescribed in the specifications, to be paid to the County of Solano or to be deducted from any payments due or to become due the Contractor for each day's delay in completing the whole or any specified portion of the work beyond the time allowed in the specifications.

The Contractor shall pay to the County of Solano the sum of \$4,000 per day, for each and every calendar day's delay **in finishing the entirety of the work** in excess of the number of construction working days prescribed above.

The Contractor shall pay to the County of Solano the sum of \$1,400 per day, for each and every calendar day's delay **in finishing the work at the DOIT Benicia Shelter Project** site in excess of the number of construction working days prescribed above.

9 PAYMENT

9-1.01 GENERAL

Attention is directed to Section 91.16, "Progress Payments" and 91.17, "Payment After Contract Acceptance" of the Standard Specifications and these Special Provisions.

For the purpose of making partial payments pursuant to Section 91.16, "Progress Payments" of the Standard Specifications, the amount set forth for the contract items of work hereinafter listed shall be deemed to be the maximum value of said contract item of work which will be recognized for progress payment purposes: **NONE**.

After acceptance of the contract pursuant to Section 51.46, "Final Inspection and Contract Acceptance" of the Standard Specifications, the amount, if any, payable for a contract item of work in excess of the maximum value for progress payment purposes hereinabove listed for said item, will be included for payment in the first estimate made after acceptance of the contract.

No partial payment will be made for any materials on hand which are furnished but not incorporated in the work.

9-1.16 PROGRESS PAYMENTS

9-1.16A General

A prime contractor or subcontractor shall pay any subcontractor not later than ten days of receipt of each progress payment in accordance with the provision in section 7108.5 of the California Business and Professions Code concerning prompt payment to subcontractors. The ten days is applicable unless a longer period is agreed to in writing. Any delay or postponement of payment over 30 days may take place only for good cause and with the agency's prior written approval. Any violation of section 7108.5 shall subject the violating contractor or subcontractor to the penalties, sanctions and other remedies of that section. This requirement shall not be construed to limit or impair any contractual, administrative or judicial remedies otherwise available to the Contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor. This provision applies to both DBE and non-DBE subcontractors.

9-1.17 PAYMENT AFTER CONTRACT ACCEPTANCE

9-1.17A General

Section 9-1.17, "Payment After Contract Acceptance," of the Standard Specifications is amended to read:

After the work has been completed satisfactorily as determined by the Engineer and as provided in Section 5-1.46, "Final Inspection and Contract Acceptance", payments will be made to the Contractor subject to the provisions in this Section 9-1.17.

Section 9-1.17B, "Payment Before Final Estimate," of the Standard Specifications is amended to read:

After the work has been completed as determined by the Engineer, he will make an estimate of the total amount of work done under the contract and the County will make a final monthly payment pending issuance of the proposed final estimate. The County will pay the balance found to be due after deduction of all previous payments, all amounts to be kept or retained under the provisions of the contract, and such further amounts that the Engineer determines to be necessary pending issuance of the proposed final estimate and payment.

The following is added to Section 9-1.17(D)(2)(b) "Overhead Claims"

Overhead costs may not be claimed or recovered on the basis of any 'Eichleay' formula, or 'Total Cost' recovery formula.

Section 9-1.17D (3) "Final Payment and Claims," of the Standard Specifications is amended to read:

After acceptance of the work by the Director, the Engineer will make a proposed final estimate in writing of the total amount payable to the Contractor, including therein an itemization of said amount, segregated as to contract item quantities, extra work and any other basis for payment, and shall also show therein all deductions made or to be made for prior payments and amounts to be kept or retained under the provisions of the contract. All prior estimates and payments shall be subject to correction in the proposed final estimate. The Contractor shall submit written approval of the proposed final estimate, or a written statement of all claims arising under or by virtue of the contract, so that the Engineer receives such written approval or statement of claims no later than close of business 30 days after receiving the proposed final estimate. If the thirtieth day falls on a Saturday, Sunday or legal holiday, then receipt of such written approval or statement of claims by the Engineer shall not be later than close of business of the next business day. No claim will be considered that was not included in the written statement of claims, nor will any claim be allowed as to which a notice or protest is required under the provisions in Sections 4-1.05, "Changes and Extra Work"; 8-1.05, "Time"; 8-1.10, "Liquidated Damages"; 4-1.06, "Differing Site Conditions"; 5-1.36, "Property and

Facility Preservation"; 5-1.36D, "Non-highway Facilities"; and 5-1.43, "Potential Claims and Dispute Resolution," unless the Contractor has complied with the notice or protest requirements in said sections.

On the Contractor's approval, or if the Contractor files no claim within the period of 30 days, the Engineer shall make and issue his final estimate in writing and will recommend to the Board of Supervisors that it formally accepts the contract. In no event shall final payment be made in less than thirty days after completion of work and the formal acceptance of the contract by the Board of Supervisors. Such final estimate and payment shall be conclusive and binding against both parties to the contract on all questions relating to the amount of work done and the compensation payable, except as otherwise provided in Sections 5-1.27, "Records," and 9-1.21, "Clerical Errors."

If the Contractor within the specified period of 30 days files claims, the Engineer will issue a semifinal estimate in accordance with the proposed final estimate submitted to the Contractor and within 30 days thereafter the County will pay the sum so found to be due. The semifinal estimate and payment shall be conclusive and binding against both parties to the contract on all questions relating to the amount of work done and the compensation payable therefore, except insofar as affected by the claims filed within the time and in the manner required hereunder and except as otherwise provided in Sections 5-1.27, "Records," and 9-1.21, "Clerical Errors."

Claims filed by the Contractor shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of said claims. If additional information or details are required by the Engineer to determine the basis and amount of said claims, the Contractor shall furnish such further information or details so that the information or details are received by the Engineer no later than the fifteenth day after receipt of the written request from the Engineer. If the fifteenth day falls on a Saturday, Sunday or legal holiday, then receipt of such information or details by the Engineer shall not be later than close of business of the next business day. Failure to submit such information and details to the Engineer within the time specified will be sufficient cause for denying the claim.

The Contractor shall keep full and complete records of the costs and additional time incurred for any work for which a claim for additional compensation is made. The Engineer or any designated claim investigator or auditor shall have access to those records and any other records as may be required by the Engineer to determine the facts or contentions involved in the claims. Failure to permit access to such records shall be sufficient cause for denying the claims.

Claims submitted by the Contractor shall be accompanied by a notarized certificate containing the following language:

Under the penalty of law for perjury or falsification and with specific reference to the California False Claims Act, Government Code section 12650 et. seq., the undersigned,

(name)

(title)

of

(company)

certifies that the claim for the additional compensation and time, if any, made for the work on this contract is a true statement of the actual costs incurred and time sought, and is fully documented and supported under the contract between parties.

State of California

County of _____

Subscribed and sworn to (or affirmed) before me on this _____ day
of _____, 20 __, by _____, proved to me on the basis of satisfactory evidence to be
the person(s) who appeared before me.

Seal _____

Signature _____

Failure to submit the notarized certificate will be sufficient cause for denying the claim.

Any claim for overhead type expenses or costs, in addition to being certified as stated above, shall be supported by an audit report of an independent Certified Public Accountant. Any such overhead claim shall also be subject to audit by the County at its discretion.

Any costs or expenses incurred by the County in reviewing or auditing any claims that are not supported by the Contractor's cost accounting or other records shall be deemed to be damages incurred by the County within the meaning of the California False Claims Act.

The Director of Resource Management will make the final determination of any claims which remain in dispute after completion of claim review by the Engineer. A board or person designated by said Director will review such claims and make a written recommendation thereon to the Director. The Contractor may meet with the review board or person to make a presentation in support of such claims.

Upon final determination of the claims, the Engineer shall then make and issue his final estimate in writing and will recommend to the Board of Supervisors that they formally accept the contract. In no event shall final payment be made in less than thirty days after completion of work and the formal acceptance of the contract by the Board of Supervisors. Such final estimate and payment thereon shall be conclusive and binding against both parties to the contract on all questions relating to the amount of work done and the compensation payable, except as otherwise provided in Sections 5-1.27, "Records," and 9-1.21, "Clerical Errors."

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DIVISION II GENERAL CONSTRUCTION

10 CONSTRUCTION DETAILS

10-1 GENERAL

10-1.01 ORDER OF WORK

Order of work shall conform to the provisions in these Special Provisions.

After the power is provided to the new DOIT Benicia Shelter, the County will suspend the 30-day working count. The County will proceed to use its own forces to install telecom equipment in the new shelter. The County is will allow up to 20 working days notification for the Contractor to remobilize before officially unsuspending the 30-day working count.

Attention is directed to Section 7-1.03, "Public Convenience"; Section 7-1.04, "Public Safety"; and Section 12-4, "Maintaining Traffic" of the Standard Specifications and these Special Provisions.

Upon initial review by the City of Rio Vista and the Fire Department, if approval is not obtained, the Contractor shall provide the County with the agencies' comments. The County will be responsible for preparing responses to comments and making necessary plan revisions.

10-1.04 PAYMENT

The contract unit price paid per lump sum for Project Management includes full compensation for time spent by professionals thoroughly to plan, execute, and complete project within defined scope, time, cost and quality. project management, inspections and coordination.

The contract unit price paid per lump sum for Onsite Construction Management includes full compensation for project monitoring and control, site logistics, inspections, coordination with contractors, special inspections, quality control and assurance, and providing updates to the assigned Solano County Resident Engineer.

The contract unit price paid per lump sum for Utility Coordination includes full compensation for utility identification, coordination with relevant utility companies, utility relocation, and regulatory compliance.

The contract unit price paid per lump sum for City of Rio Vista Fire Department Approval includes full compensations for submitting construction plans to the local fire department for review, and approval from the fire department.

The contract unit price paid per lump sum for Mobilization includes full compensation for pre-mobilization planning, site preparation and set up, equipment and material logistics, workforce mobilization, and regulatory and safety compliance.

The contract unit price paid per lump sum for Remobilization includes full compensation for pre-mobilization planning, site preparation and set up, equipment and material logistics, workforce mobilization, and regulatory and safety compliance.

The contract unit price paid per lump sum for Bay Area Air Quality Management District (BAAQMD) Permit includes full compensation for the submission of the application, correspondence, and obtaining the permit.

12 TEMPORARY TRAFFIC CONTROL

12-1 GENERAL

12-1.01 GENERAL

Attention is directed to Section 7-1.03 "Public Convenience," Section 7-1.04, "Public Safety," and Section 12 "Temporary Traffic Control," of the Standard Specifications and to the section entitled Public Safety elsewhere in these Special Provisions. Nothing in these Special Provisions shall be construed as relieving the Contractor from his responsibility as provided in said Sections 7-1.03 and 7-1.04.

Local authorities shall be notified at least five business days before work begins. The Contractor shall cooperate with local authorities to handle traffic through the work area and shall make arrangements to keep the work area clear of parked vehicles. The County does not foresee any work to be completed in or near the roadway.

Personal vehicles of the Contractor's employees shall not be parked on the traveled way closed to public traffic.

13 WATER POLLUTION CONTROL

13-1 GENERAL

13-1.01 GENERAL

13-1.01A General

Water pollution control work must conform to the provisions in Section 7-1.11, "Federal Laws for Federal-Aid Contracts"; Section 13, "Water Pollution Control"; and Section 14, "Environmental Stewardship" of the Standard Specifications and these Special Provisions.

Submit the local project to the CA Waterboard SMARTS system. Link the project to Solano County's LRP, Pejman Mehrfar, user ID: **pmehrfar**.

13-9 TEMPORARY CONCRETE WASHOUTS

13-9.03 CONSTRUCTION

All concrete equipment, including chutes, will be cleaned over the concrete washout. The concrete washout will remain at least 50 feet from the creek embankments. No sign will be required for the concrete washout. Concrete washouts will not be filled higher than six inches below the upper rim.

13-9.04 PAYMENT

Concrete Washouts will be paid by the each. Solano County will pay for one concrete washout per pour. No extra payments will be made if the washout is not sufficient to maintain the volume of waste from the concrete activities or if the original washout is damaged.

14 ENVIRONMENTAL STEWARDSHIP

14-1 GENERAL

14-1.01 GENERAL

All material resulting from Clearing and Grubbing and Remove and Dispose items of work shall be disposed of in a Sanitary Landfill operated, permitted and licensed (in accordance with Title 27) by the State of California and/or the County, which is a sub-division of the State of California. Landfill weight slip disposal receipts for proof of delivery of all material originating from project site(s) and disposed in Sanitary Landfill shall be provided to the Engineer daily. Contractor shall provide to the engineer daily, a written log which includes date, time,

location, material classification, estimate of quantity of material, delivery truck company, delivery truck identification (truck number), truck operator's name, and recorder's name of such written log for all deliveries.

14-8 NOISE AND VIBRATION

14-8.02 NOISE CONTROL

Noise control shall conform to the provisions in Section 14-8.02, "Noise Control," of the Standard Specifications and these Special Provisions. This requirement in no way relieves the Contractor from responsibility for complying with local ordinances regulating noise level.

Said noise level requirement shall apply to all equipment on the job or related to the job, including but not limited to trucks, transit mixers or transient equipment that may or may not be owned by the Contractor. The use of loud sound signals shall be avoided in favor of light warnings except those required by safety laws for the protection of personnel.

Full compensation for conforming to the requirements of this section shall be considered as included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefore.

14-11 HAZARDOUS WASTE AND CONTAMINATION

14-11.01 GENERAL

Section 14-11 includes specifications relating to hazardous waste and contamination.

A hazardous materials (HAZMAT) survey must be conducted at both sites prior to construction. The presence and quantities of lead and asbestos in the existing Rio Vista structure is currently unknown. The County anticipates the removal and disposal of hazardous materials at both sites.

It is anticipated that the Rio Vista Corp Yard is sided with cement board panels containing Asbestos, (NESHAP Category II, 20% CH), and is also painted with a lead base paint containing Approximately 3,260 ppm. The Grey Trim is painted with a Lead based Paint, 23,200 ppm.

If asbestos is identified in the Rio Vista Corporation Yard, the County will exercise the alternative Bid Items for the BAQMD permit and the remove and dispose hazardous waste.

Remediate, demolish, store, handle and dispose of hazardous waste in compliance with Cal. Code of Regs. tit. 22, Div. 4.5.

14-11.07 DEPARTMENT GENERATED HAZRDOUS WASTE

14-11.07D Submittals

Submit a work plan for the removal, containment, storage and disposal of the cement board panels, and painted trim. The work plan must include:

1. Objective of the operation.
2. Method for making the hazardous material harmless.
3. List of removal equipment.
4. Procedures for removal and collection.
5. Type of hazardous material storage containers.
6. Description of storage location and how it will be secured.
7. Qualifications of personnel.
8. Hazardous waste sampling protocol and QA requirements and procedures.
9. Name of the hazardous waste transporter and the transporter's:
 - a. DTSC registration certificate.
 - b. Proof of compliance with the California Highway Patrol Biennial Inspection of Terminals Program.
10. Name and address of the disposal site that will accept hazardous waste and hazardous residue.

14-11.17 ASBESTOS ABATEMENT

14-11.17 GENERAL

14-11.17A (1) DESCRIPTION OF WORK:

The work includes the removal and disposal of friable and non-friable materials containing asbestos indicated and specified herein and the incidental procedures and equipment required to protect workers from contact with airborne asbestos fibers. The Contractor shall furnish all labor, materials, services, insurance and equipment required for the removal and disposal of asbestos-containing materials in accordance with the guidelines or regulations of the responsible state agency, the local agency, EPA or Cal-OSHA.

- A. All preparation of the work areas and areas outside the work areas prior to beginning asbestos removal work.
- B. Removal and disposal of all asbestos materials and waste materials contaminated with asbestos during the process of the work and any other debris generated by this project. Asbestos containing or contaminated material includes but may not be limited to the following:
 - 1. Existing garage, shop and shed structures.
- C. Complete cleaning and decontamination of all work areas and contents thereof.
- D. A lead-based paint inspection was performed and lead-based paint was found in the areas indicated on the lead report included in the specifications. The contractor shall be responsible for compliance with all requirements of the Cal-OSHA regulations regarding lead-based paint protection for workers. Evidence of worker training, RRP or Lead awareness, shall be provided prior to the onset of demolition activities.
- E. The Contractor is solely responsible for meeting all Local, State and Federal requirements for the protection of his personnel and the environment during demolition activities. Testing of demolition debris (TCLP's) to determine its disposition as hazardous waste and its proper disposal is the sole responsibility of the Contractor. Results of such tests and waste manifests shall be provided to the Owner at the completion of the project. If metal demolition components are recycled, the contractor shall be responsible for notification to the recycler that the components utilize Lead Based Paint.

14-11.17A (2) TERMINOLOGY:

- A. Amended Water: Water containing a wetting agent or surfactant.
- B. Asbestos Control Area: An area where asbestos removal operations are performed which is isolated by physical boundaries to prevent the release of asbestos dust, fibers, or debris.

C. Authorized Visitor: The Owner's representative, or a representative of any regulatory or other agency having jurisdiction over the project.

D. Friable Asbestos Material: Material when dry, may be crumbled, pulverized or reduced to powder by hand pressure and includes previously non-friable material after such previously non-friable material becomes damaged to the extent that when dry is may be crumbled, pulverized, or reduced to powder by hand pressure.

E. HEPA Filter Equipment: High-efficiency particulate air filtered vacuuming equipment with a filter system capable of collecting and retaining asbestos fibers. Filters shall be of 99.97 percent efficiency for retaining fibers of 0.3 microns or larger.

F. Negative Pressure: A local exhaust system capable of maintaining a minimum pressure differential of minus 0.02 inch of water column relative to adjacent unsealed areas.

G. Non-friable Asbestos Material: Material that contains asbestos in which the fibers have been locked in by a bonding agent, coating, binder, or other material so that the asbestos is well bound and will not release fibers during any appropriate use, handling, demolition, storage, transportation, processing or disposal.

H. Owner's Representative: Person designated in the contract as authorized individual (or his designee) to represent and mediate for the Owner in administration of the Contract.

I. Project Monitor: One or more individuals employed by the Owner to inspect the Work and/or to act as clerk of the works to the extent required by the Owner. The Owner shall notify the Contractor in writing of the appointment of such Project Monitor(s).

J. Surfactant: A chemical wetting agent added to water to improve penetration, thus reducing the quality of water required for a given operation or area.

K. Wet Cleaning: The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with water, and by afterwards disposing of these cleaning tools as asbestos-contaminated waste.

14-11.17A (3) CONFORMANCE TO REGULATORY REQUIREMENTS:

A. In addition to detailed requirements of this specification, the contractor shall comply with laws, ordinances, rules, and regulations of federal, state, regional, and local authorities regarding handling, storing, transporting and disposing of asbestos waste materials. Comply with the applicable requirements of the current issue of the following regulatory agencies:

1. Title 29, Code of Federal Regulations, Section 1926.1101 (OSHA) Occupational Safety and Health Administration, U.S. Department of Labor and the Virginia Occupational Safety and Health Standards for Industry, Department of Labor and Industry Construction.

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2. Title 40, Part 61, Subparts A and B. Regional National Emissions Standards for Hazardous Air Pollutants. (EPA) U.S. Environmental Protection Agency.

3. 40 CFR Part 763 Subpart E, Appendix D.

B. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting the work. Where the requirements of this specification and referenced documents vary, the most stringent requirement shall apply.

C. Written notification shall be made to:

1. Cal/OSHA Local District Office

2. Notification shall be sent not later than 20 days prior to commencement of the work with a copy sent for the Owner's Representative.

14-11.17A (4) BUILDING PROTECTION:

The asbestos control area shall be maintained under negative pressure at all times of a minimum of .02 inches of water column relative to adjacent unsealed area. A minimum of 4 air changes per hour is required.

14-11.17A (5) SUBMITTALS:

Submittals shall be made in accordance with procedures set forth in Section "Submittals."

A. Notification to Regulatory Agencies: Submit a copy of the notification of the proposed asbestos work as required under paragraph "Conformance to Regulatory Requirements."

B. Asbestos Plan: Submit a detailed plan of the work procedures to be used in the removal and demolition of materials containing asbestos. Such plan shall include interface of trades involved in the construction, sequencing of asbestos related work, disposal plan, type of wetting agent to be used, air monitoring, and a detailed description of the method to be employed in order to control pollution. Plan shall be approved prior to start of the work.

C. Testing Laboratory: Submit the name, address, telephone number of the testing laboratory selected for the monitoring of the airborne concentrations of asbestos fibers along with certification that persons counting the samples have been judged proficient by successful participation in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing (PAT) Program.

D. Disposal: Must comply with 40 CFR Part 763 Subpart E Appendix D

1. Submit evidence that all required permits for transport disposal of asbestos containing or contaminate materials, supplies, and the like have been obtained.

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2. Submit certified copies from the operator of the asbestos disposal site that the asbestos has been received, within 30 days of removal, specifying quantities and dates of delivery.

E. Employee Qualification, Virginia Licensure Requirements:

1. Submit documentation indicating that all employees have had instruction on the hazards of asbestos exposure, on use and fitting of respirators, on protective dress, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures, in accordance with OSHA and the EPA.

2. Submit documentation of each employee's asbestos medical examination.

F. Respirator Program: Submit a copy of the company's written respirator program in compliance with OSHA regulations. The Contractor shall have a copy of his written respirator program available on the job site at all times. Start job with appropriate respiratory protection based on a Negative Exposure Assessment (NEA) and ensure that fiber concentration inside mask does not exceed .01 fibers/cc. Use historic or objective data, documenting expected fiber count levels, to prove the proposed respiratory protection is adequate or an OSHA required Negative Exposure Assessment.

G. Submit a written Assured Equipment Grounding Program and a Lock Out and Tag Out Program. Provide proof that programs are in effect and being enforced.

H. Equipment: Submit manufacturer's certification that vacuums, ventilation equipment, and other equipment required to contain airborne fibers conform to ANSI 29.2-79.

I. Submit proof of valid California asbestos licenses for contractor, supervisor, and workers.

14-11.17A (6) PERSONNEL PROTECTION:

A. Provide workers with personally issued and marked respiratory equipment in accordance with Paragraph "Equipment." Where respirators with disposable filters are employed, provide sufficient filters for replacement as required by the worker or applicable regulation.

B. Provide workers with sufficient sets of protective full-body clothing. Such clothing shall consist of full-body overalls and headgear, gloves and foot coverings. Provide hard hats as required by applicable safety regulations. Non-disposable-type protective clothing and footwear shall be left in the contaminated equipment room until the end of the abatement work, at which time such items shall be disposed of as asbestos waste, bagged and removed as asbestos-contaminated or shall be thoroughly cleaned of all asbestos or asbestos-containing material. Disposable-type protective clothing, headgear, gloves and footwear will be provided.

C. Provide authorized visitors with suitable protective clothing, headgear, gloves, eye protection and footwear, as described herein, whenever they are required to enter the work area.

14-11.17B– PRODUCTS

14-11.17B (1) MATERIALS:

- A. Sheeting: Polyethylene sheet, minimum 6 mils thick unless otherwise specified, in sizes to minimize the frequency of joints.
- B. Tape: Glass fibers or other type capable of sealing joints of adjacent sheets of polyethylene sheets and for attachment of polyethylene sheet to finished or unfinished surfaces of dissimilar materials under both dry and wet conditions, including use of amended water.
- C. Surfactant (Wetting Agent): Shall consist of 50-percent polyoxylethylene ether and 50 percent of polyoxylethylene or polyglycol ester, or equivalent and shall be mixed with water to provide a concentration of 1 ounce surfactant to 5 gallons of water.
- D. Impermeable Containers: Containers shall be suitable to receive and retain any asbestos-containing or contaminated materials until disposable at an approved site. They may be in the form of polyethylene bags, sealed cardboard containers, or fiber drums. The containers shall be labeled in accordance with OSHA Regulation 29 CFR 1926.58, NESHAP 40 CFR Part 61, and DOT Regulations. Containers shall be both airtight and watertight.

14-11.17B (2) EQUIPMENT:

- A. Air-Handling Equipment: Equipment shall be a high-efficiency particulate air (HEPA) filtration system, equipped with filtration equipment in compliance with ANSI 29.2-79, and a monitoring device, known as a manometer, to continuously gauge and record negative pressure conditions. Manometer tape to be retained by Contractor for future reference by Owner if necessary. No air-movement system or air equipment shall discharge asbestos fibers outside the work area. Pressure shall be maintained at a minimum of -.02 inches of water column relative to adjacent unsealed areas. A minimum of 1 air change every 15 minutes will be required.

14-11.17B (3) EXECUTION

14-11.17B (3)A PREPARATION OF WORK AREAS:

- A. Provide temporary power sources and equipment per applicable electrical code requirements and provide 24-volt safety lighting and ground-fault interrupter circuits as power source for electrical equipment.
- B. Seal off all openings, including, but not limited to, corridors, doorways, skylights, ducts, grilles, diffusers, and any other penetrations of the work areas, with plastic sheeting sealed with tape. Doorways and corridors which will not be used for passage during work must be sealed with barriers as described in Paragraph "Decontamination Enclosure Systems."

C. When applicable, carpet in work area to be removed under containment conditions as contaminated or as directed by the project monitor. Cover surfaces that aren't being removed, with plastic sheeting sealed with tape. Use a minimum of two layers of minimum 6- mil plastic on floors and walls. Cover floors first so that plastic extends at least 12 inches up on walls, then cover walls with a minimum of 6-mil plastic sheeting to the floor level.

D. Sealing of critical barriers and non-movable objects only will be acceptable during the removal of those Non-Friable asbestos materials in areas where smooth, non- porous surfaces shall be exposed.

E. Exterior ACM, such as windows, caulks, panels, roofing, etc., are to be removed using barrier tape on the building exterior a minimum of 10' from work area and ground cover. Workers are to don personal protective clothing and respiratory protection.

F. Maintain emergency and fire exits from the work areas, or establish alternative exits satisfactory to the applicable fire officials.

G. Provide 5.0-micron filters on all shower drains. Asbestos-contaminated wastewater is to be placed in a sanitary sewer system after filtration through the 5.0-micron filter.

H. After preparation of the work areas and decontamination enclosure systems, remove Asbestos Containing Building Material as required.

14-11.17B (3) DECONTAMINATION ENCLOSURE SYSTEMS:

A. Worker Decontamination Enclosure System: Construct a worker decontamination enclosure system contiguous to the work area consisting of three totally enclosed chambers and air locks as follows:

1. An equipment room with two curtained doors, one to the work area and one to the air lock.
2. Air lock with two curtained doors, one to equipment room and one to shower room.
3. A shower room with two curtained doorways, one to the air lock on work room side and one to the air lock on the clean room side. The shower room shall contain at least one shower with hot and cold or warm water. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind. Ensure a supply of liquid soap at all times in the shower room.
4. Air lock with two curtained doors, one to shower room and one to clean room.
5. A clean room with two curtained doors, one to the air lock on the shower side and one to the exterior. Clean room shall be constructed to meet or exceed requirements of OSHA Regulations.
6. Separation of Work Areas from Occupied Areas: Separate parts of the building required to remain in use from parts of the building that will undergo asbestos abatement by means of airtight barriers.

7. For abatement of non-friable ACM, the shower may be replaced with a cleaning station consisting of a bucket of clean water, liquid soap and/or wipes for use by employees. Respirators to be cleaned prior to removal and face and all exposed skin cleaned prior to exiting the work area.

B. Maintenance of Enclosure Systems:

1. Ensure that barriers and plastic linings are effectively sealed and taped. Repair damaged barriers and remedy defects immediately upon discovery.

2. Visually inspect enclosures at the beginning of each work period.

3. Use smoke methods to test effectiveness of barriers when directed by the Project Monitor.

14-11.17C AIR MONITORING:

14-11.17C (1) GENERAL REQUIREMENTS:

1. Provide daily air monitoring both in and outside the work area throughout all asbestos stripping, removal and cleaning. Outside monitoring samples shall be taken by the Project Monitor.

2. Samples shall be collected by calibrated pumps whose flow rates can be determined to an accuracy of plus or minus 5%. Calibrate pumps with a representative filter in line.

3. Personal air monitoring shall be in compliance with 1926.1101 of the OSHA standards.

4. Analysis of samples shall be done in compliance with OSHA standards 1926.1101 by a competent trained person or laboratory.

5. The sampling schedule shall be posted outside of the containment area showing sample frequency, duration of the sample, and pump flow rates.

6. Results of all samples shall be posted outside of the containment area within 24 hours of collection and maintained there until the job has been concluded. This data shall include the results of 8-hour TWA determinations. Posted results should include a synopsis of work activities of which the results are representative.

14-11.17C (2) AIR MONITORING BY CONTRACTOR:

1. Throughout the removal and cleaning operations, personal air monitoring shall be conducted by a Testing Laboratory employed by the Contractor or by the Contractor's personnel. Air monitoring shall be performed to provide the following samples:

a. work area environmental,

b. personal breathing 8-hour TWA and excursion, Samples for air monitoring shall be collected by a competent person in accordance with methods prescribed in the Federal OSHA Industrial Hygiene Field Operations Manual or by equivalent.

2. The Contractor shall be responsible for personnel and environmental air monitoring samples taken inside the work compartment and all costs in connection with testing and air sampling shall be borne by the Contractor.

3. The Contractor shall determine the release of asbestos from any work or waste storage area is not taking place at concentrations higher than .01 actual fibers/cc.

4. All analytical results shall be presented as signed "Certificates of Analysis." Form shall state:

- a. date and time sampling began
- b. flow rate of samples
- c. sampling time elapsed
- d. concentration in fibers/cc
- e. site/individual sampled
- f. synopsis of work activities which sample was taken
- g. name and signature of analysts

5. Two copies of analytical results shall be delivered in writing to the job site within 24 hours of sample collection (excluding non-working days). A copy of the results shall be submitted to the Project Monitor when received by the Contractor.

6. Analytical results indicating potential for a hazard higher than limits set forth in this section shall be reported immediately, by the most expeditious means possible, either telephone or carrier, to the Owner.

7. The Project Monitor shall be informed immediately of any area samples outside of the containment with results in excess of .01 fibers/cc actual.

8. Operations shall be discontinued immediately any time emissions are observed emanating from the work area.

9. Contractor will provide a written plan to the Owner stating steps to be undertaken to assure compliance with all regulations, including but not limited to the following:

- a. qualifications of personnel taking and analyzing samples
- b. containment procedures
- c. respirator program
- d. sampling strategy

14-11.17C (3) ASBESTOS ABATEMENT:

- A. Spray asbestos material with amended water, using spray equipment capable of providing a "mist" application to reduce the release of fibers. Saturate the material sufficiently to wet it to the substrate without causing excess dripping or delamination of the material. Spray the asbestos material repeatedly during work process to maintain wet condition and to minimize asbestos fiber dispersion.
- B. Remove the saturated asbestos material in small sections. As it is removed, pack the material in sealable plastic bags of 6-mil minimum thickness and place in labeled containers or a second plastic bag of 6-mil minimum thickness for transport. If the Contractor chooses plastic bags for transport, the double-bag method of containment will be used. Material shall not be allowed to dry out prior to insertion into the original sealable, plastic bag.
- C. Seal filled containers. Place danger labels on containers in accordance with OSHA regulation 29 CFR 1926.58. Additional labeling indicating the name of the waste generator and the location where the waste was generated shall be affixed to each container in accordance with NESHAP regulation 40 CFR Part 61. Clean external surfaces of containers thoroughly by wet sponging in the designated area of the work area which is part of the equipment decontamination enclosure system. Move containers to washroom, wet clean each container thoroughly, and move to holding area pending removal from the holding area by workers who have entered from uncontaminated areas dressed in clean coveralls. Ensure that workers do not enter from uncontaminated areas into the washroom or the work area; ensure that contaminated workers do not exit the work area through the equipment decontamination enclosure system.
- D. After completion of stripping work, all surfaces from which asbestos has been removed or contaminated shall be wire brushed and/or wet sponged or cleaned by an equivalent method to remove all visible material. During this work, the surfaces being cleaned shall be kept wet.

14-11.17C (4) GLOVE BAG REMOVAL:

- A. All glove bag work will be performed within a controlled area. The controlled area is established by installing critical barriers of minimum 6-mil poly over any doors or other openings as needed. Negative air is to be maintained in this controlled area at all times from initial disturbance of material until final clearance is certified. The use of a negative air glove bag will not preclude this requirement.
- B. Attach glove bag to pipe with ends and top seam securely taped. Leave enough slack in bag so that bag can be lifted at least 3 inches above pipe at center of attached length.
- C. Have all tools needed for removal inside bag, prior to attachment of bag.
- D. Insert and seal hoses for HEPA vac and amended water sprayer.

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- E. One person sprays amended water and control HEPA vac hose while other person removes insulation and cleans pipe.
- F. Place tools into glove, pull to outside, and double-tie glove for tool removal. Cut between ties.
- G. After all insulation is removed and pipe cleaning is finished, continue to ventilate the bag for 3 minutes. Adjust airflow to allow full bag venting.
- H. Remove the HEPA vac and water hoses and seal openings.
- I. While vacuuming along the top seal of the bag, remove the bag, twist the top and seal with tape with the top doubled down.
- J. Place sealed glove bag into labeled asbestos disposal bag and seal.
- K. Plastic floor drop cloth and wall poly may be moved as needed, provided that no visible contamination has accumulated. If any contamination exists or job is completed, this poly is to be properly double-bagged and disposed of as asbestos waste.

14-11.17C (5) CLEANUP:

- A. Remove visible accumulations of asbestos material and debris. Wet clean all surfaces within the work area.
- B. The windows and doors shall remain sealed and any HEPA-filtered negative air pressure systems, air filtration, and decontamination enclosure systems shall remain in service until final clearance is certified.
- C. Clean all surfaces in the work area and any other contaminated areas with water and/or with HEPA-filtered vacuum equipment all surfaces in the work area. After completion of the second cleaning operation, perform a complete visual inspection of the work area to ensure that the work area is free of visible asbestos debris.
- D. Sealed drums and all equipment used in the work area shall be included in the cleanup and shall be removed from work areas, via the equipment decontamination enclosure system, at an appropriate time in the cleaning sequence. The transport vehicle shall be lined with two layers of minimum 6-mil. polyethylene sheeting.
- E. If the Project Monitor, within 24 hours, finds visible accumulations of asbestos debris in the work area, the Contractor shall repeat the wet cleaning until the work area is in compliance, at the Contractor's expense.
- F. Final air samples will be taken by the Virginia Licensed Project Monitor and shall certify not

to exceed .01 f/cc using the NIOSH 7400 PCM method of analysis. Aggressive sampling methods may be performed. If the final air samples do not meet acceptable standards, the Contractor shall be held responsible for the cost of subsequent sampling. All exits, vents, and critical barriers shall remain sealed and negative air machines will remain on until final clearance is certified.

G. Contractor shall provide necessary electrical outlets for air clearance equipment.

14-11.17C (6) DISPOSAL:

Comply with 40 CFR PART 763 SUBPART E APPENDIX D.

A. Disposal of Asbestos-Containing Materials and Asbestos-Contaminated Waste: As the work progresses and to prevent exceeding available storage capacity on site, remove sealed and labeled containers of asbestos waste and dispose of such containers at an authorized disposal site in accordance with the requirements of disposal authority. Submit documentation regarding disposal to Owner within 30 days of removal.

B. Procedure for hauling and disposal shall comply with 40 CFR 61 (Sub-part B), state, regional, and local standards. If drums are chosen as the container for the disposal bags, the bags will be removed by hand from drums into the burial site unless the bags have been broken or damaged. Damaged bags shall remain in the drum and the entire contaminated drum shall be buried. Uncontaminated drums may be recycled. If the double bag method of containment was used, the entire waste package shall be hand placed into the burial site.

Workers shall wear appropriate respirators and personal protective equipment when handling asbestos materials at the jobsite and at the disposal site.

C. All procedures are to follow NESHAP regulations, and California Code of Regulations, title 22, division 4.5.

14-11.18 LEAD PAINT ABATEMENT

14-11.18A– GENERAL

14-11.18A(1) DESCRIPTION OF WORK:

A. The purpose of this plan is to establish specific procedures to minimize occupational exposure to lead during construction activities. Proper lead management will safeguard the health and safety of workers and building occupants, minimize the impact to the environment, and ensure adherence to the various regulatory issues concerning lead in the work environment.

B. This plan applies to all occupational exposures to inorganic lead for affected Solano County contractors during construction work activities in which lead-containing materials are present. Construction related activities where a worker may encounter and or/work with lead include: a) new construction; b) demolition or salvage of structures; c) removal or encapsulation of lead containing materials; d) alteration, repairs, and/or renovation of structures; e) installation of products containing lead; f) emergency clean- up; g) storage of lead containing materials at the work site; and h) maintenance operations.

14-11.18A(2) TERMINOLOGY:

A. Action Level (AL): Worker exposure to airborne lead at an 8-hour time- weighted average concentration of 30 micrograms of lead per cubic meter ($\mu\text{g}/\text{m}^3$) of air or 0.030 milligrams per cubic meter (g/m^3) of air, without regard to the use of respirators.

B. Permissible Exposure Level (PEL): The allowable 8-hour time weighted average concentration of airborne lead the employee may be exposed to without regard to the use of respirators. This value is 50 g/m^3 of lead in air or 0.050 mg/m^3 of lead in air.

C. Objective Data: Information from manufacturers or laboratory data that demonstrates that the use of a material in a specific operation or activity will not result in exposure to lead at the AL.

D. Regulated Area-Work: areas where airborne exposure to lead is above the PEL.

E. Industrial Hygienist- Responsibilities include but are not limited to: reviewing project- specific lead management work plans, inspecting work activities involving potential lead exposure, using lead identification/assessment techniques, and monitoring airborne lead exposures.

F. Lead Worker- Each lead worker must have basic knowledge of the hazards associated with lead. Each employee is responsible for wearing assigned personal protective equipment, following good personal hygiene practices, and adhering to all work practices established for each specific job.

G. Construction Contractor- Each contractor will be responsible for consulting with the Solano County Public Works project manager to evaluate the presence of lead-containing materials, controlling access to regulated areas, and ensuring that all work practices established for a specific job are adhered to by the workers.

14-11.18B– EXECUTION

14-11.18B(1) EXPOSURE ASSESSMENT

A. LEAD IDENTIFICATION BULK SAMPLES

1. Suspect lead-containing materials are evaluated prior to the start of work. Lead analysis must be performed for each unique surface to be disturbed.
2. For non-residential buildings, a representative number of painted surface bulk samples should be collected. Two samples should be collected from each homogeneous surface from each type of paint/color. One sample may be collected from each type of door or window frame.
3. All samples shall be submitted to AIHA and ELLAP accredited lead laboratories for analysis.

B. DETERMINATION OF SURFACE CONTAMINATION LEVELS

- a. To minimize the risk of contamination in eating areas and the workplace in general, housekeeping measures (HEPA vacuums, wet mopping, and as listed under Section VII, B), should be implemented to contain lead dust during any activity involving the disturbance of lead containing materials. To verify the effectiveness of housekeeping efforts, the presence of lead contamination on surfaces shall be conducted using NIOSH 9100 methods.

14-11.18B(2) CONTROL MEASURES

A. PERSONAL PROTECTIVE EQUIPMENT

1. Personal Protective Equipment must be always worn where there may be potential exposure to lead containing materials including the initial exposure assessment phase.
2. The appropriate respiratory protection must be worn in accordance with Appendix B - Respiratory Protection for Lead Aerosols
3. Respirators must be worn:
 - a. As an interim protection for tasks until exposure assessments can be completed, refer to Appendix A - Assumed Exposures for Construction Tasks*
 - b. and B to determine the appropriate level of respiratory protection.
 - c. When a worker's exposure exceeds the Permissible Exposure Limit (PEL).

- d. Whenever a Worker requests for a respirator.
 - e. In work situations where engineering and work practice controls are not sufficient to reduce employee exposures below the PEL.
- 4. Coveralls contaminated with lead must not be worn outside of the regulated area.
 - 5. Gloves should be worn if they do not interfere with the work being performed.
 - 6. Eye protection meeting the ANSI Z87.1 standard must be worn during construction activities.

B. ENGINEERING AND WORK PRACTICE CONTROLS

- 1. Provide HEPA filtered local exhaust ventilation for devices or abrasive power tools, needle guns sanders, grinders, and other equipment that will be used to disturb lead containing surfaces.
- 2. Use HEPA vacuums for cleanup. Do not dry sweep or use compressed air.
- 3. Use wet methods to reduce airborne dust generation, e.g., a water sprayer to hold down settled leaded dust on the plastic sheeting covering the floor.
- 4. Wet surfaces with water prior to scraping, sweeping, or sawing.
- 5. Daily cleanup of work area and equipment to prevent leaded dust accumulations.
- 6. No eating, drinking, smoking, or applying cosmetics where lead containing surfaces are being disturbed.
- 7. Shoveling, wet sweeping, brushing may only be used for clean- up to pick-up large debris. The debris should be misted with water prior to clean up to minimize leaded dust generation.
- 8. All surfaces must be kept as free as practicable from lead accumulations.
- 9. Possession or storage or consumption of foods, beverages, chewing gum, tobacco products, and cosmetic products is prohibited in the work area.
- 10. A Regulated Area shall be established around the work location. In the absence of project-specific exposure data, the Regulated Area shall be configured to include all areas within a 25-foot radius of these activities performed on structures with lead- containing coatings. The Regulated Areas shall be identified with warning signs posted at all approaches to the area such that personnel may read the signs and take necessary protective steps before entering the area marked by the signs. The signs shall read as follows:

WARNING LEAD WORK AREA POISON NO SMOKING OR EATING
- 11. A change area shall be established at the boundary of the Regulated Area for the purpose of entry and exit from the Regulated Area for any purpose except emergencies.

12. Employees entering the Regulated Area will be provided respiratory protection in accordance with Appendix B - Respiratory Protection for Lead Aerosols

13. Employees entering the Regulated Area will be provided with protective work clothing that prevents contamination of the employee's garments. This protective clothing shall be provided in a clean and dry condition at least weekly. Protective clothing shall include, as a minimum:

- a. Coverall or similar full-body work clothing
- b. Gloves
- c. Eye protection

14. Employees exiting the Regulated Area for any purpose shall decontaminate their protective clothing by the following methods:

- a. Removal of outer protective clothing
- b. Use of a HEPA-filtered vacuum

15. Provisions shall be made in the change area for the collection of contaminated items such as work clothing, respirator cartridges, and equipment.

16. Provisions will be made for employees to wash their hands and face at the completion of the activity and/or before departing from work at the end of the shift. Also, provisions will be made to allow employees to wash their hands and face prior to eating, drinking, smoking, or applying cosmetics.

14-11.18C TRAINING

Lead Worker Training

In addition to general awareness training, each worker exposed to an airborne concentration of lead above the action level of 30 annually information concerning:
/m3 (micrograms per cubic meter) shall receive at least

- 1. Specific jobs that could result in an exposure above the action level
- 2. General respirator and use of personal protective equipment
- 3. Proper use of engineering controls and work practice controls
- 4. Medical surveillance/removal program
- 5. Use of chelating agents
- 6. Access to medical/exposure records/training materials

7. Content of Cal/OSHA's Lead in Construction Standard, Title 8 Section 1532.1.

ENVIRONMENTAL MANAGEMENT

Environmental management (i.e., waste characterization, waste disposal) will be conducted under the direction of the Hazardous Waste Section of Environmental Health and Safety.

The "Guidance on Waste Management for Lead Abatement Activities" is in Appendix E - Guidance on Waste Management for Lead Abatement Activities of this document.

14-11.18D REPORTING REQUIREMENTS

All work shall be performed in strict accordance with all applicable federal, state, and local regulations, standards, and codes governing lead, and any other trade work done in conjunction with the disturbance of lead. The lead contractor generally makes notification to regulatory agencies (local Cal- OSHA office).

The most recent editions of any relevant regulation, standard, document, or code shall be in effect. Where conflict among the requirements or with these specifications exists, the most stringent requirements shall apply.

Any work involving disturbance of lead shall comply with the requirements of the California General Industry Safety and Health Standards, and the Safety and Health Regulations for Construction, Title 8, California Code of Regulations (CCR), including, but not limited to the following sections:

Section 5144: Respiratory Protection
Section 2405.4: Ground-Fault Circuit Protection – Construction Site
Sections 1637, 1640, 1658: Scaffolding
Section 1513: Housekeeping
Section 5194: Hazard Communication
Section 1675: General (Ladders)
Sections 3215 & 3220: Egress and Emergency Action Plans
Section 1514: Personal Protective Devices
Section 1519: Sanitation
Section 3360: Scope and Application (Sanitation)
Sections 1684, 3555, & 3556: Powered Hand Tools
Section 1502: Application (Contractors Responsibilities)
Section 1511: General Safety Precautions
Safety and Health Provisions
Section 1510: Safety Training and Education
Section 1527 & 3366: Washing Facilities
Section 1528: Gases, Vapors, Fumes, Dusts, and Mists
Section 1531 & 5143: Ventilation
Section 3203: Injury and Illness Prevention Program

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Section 3204: Access to Employee's Exposure and Medical Records

Section 3340: Accident Prevention Signs

Section 3221: Fire Prevention Plan

Section 1532.1: Construction Safety Orders, Lead

Any work involving disturbance of lead shall comply with the Federal Environmental Protection Regulations pertaining to the handling and disposal of lead-containing materials, as well as the State of California and any local government agencies which have delegated responsibility for the administration and enforcement of federal regulations.

22 CCR, Section 66261

10 CFR, Part 261

The Contractor shall comply with all requirements of the EPA-approved landfill that is selected as the disposal site.

The contractor shall comply with California Title 17, Chapter 8.

14-11.18E REPORTING REQUIREMENTS

Lead Regulations- Title 8 CCR 1532.1; Title 29 CFR 1910.1025; Title 29 CFR

1926.62, 40 CFR part 745 (I), (B), Title 17 CCR Division 1 Chapter 8 Lead- Based Paint and Lead Hazards

The original of all documents pertaining to this Lead Compliance Plan will be kept on file by Solano County Public Works project manager; contractor responsible for forwarding documents to same. The standard documents to be kept on file will be:

Reports of Survey and Laboratory Analyses - Original Records of Areas Removed/Abated Disposal Records Verification

Summary of Lead Containing Materials on Campus - Consult with EHS for the most updated list.

Appendix A - Assumed Exposures for Construction Tasks*

Appendix B - Respiratory Protection for Lead Aerosols

Appendix C - Exposure Control Strategy During Renovation/Painting/Sanding Operations Of Surfaces Containing 600 Ppm Lead Or Greater

Appendix D - Exposure Control Strategy During Demolition/Sanding/Painting of Surfaces Containing Less Than 600 Ppm Lead

Appendix E - Guidance on Waste Management for Lead Abatement Activities

14-11.19E Payment

The contract bid unit price paid per lump sum for Lead and Asbestos Abatement Plan includes full compensation for the development and submittal of lead and asbestos mitigation plans for Engineer approval.

The contract unit price paid per lump sum for Hazmat Survey includes full compensation for evaluation of the Rio Vista property to identify any hazardous substances, and a hazardous report of any discovered substance. This survey may include visual inspection, sampling and laboratory analysis.

The contract unit price per square foot for Hazardous Waste Removal and Dispose include all labor, materials, and equipment costs to remove and dispose all hazardous materials at Benicia DOIT sites for demolition of the existing facilities, including transportation of the waste to Hay Road Recology Landfill.

Alternative Bid Items for Rio Vista Hazardous Waste Removal and Dispose include all labor, materials, and equipment costs to remove and dispose all hazardous materials at Rio Vista sites for demolition of the existing facilities, including transportation of the waste to Hay Road Recology Landfill.

In the event hazardous materials are identified at Rio Vista Corporation Yard, YSAQMD permit provides compensation for all labor, materials, and equipment costs to acquire Air Quality Management District permits.

14-11.14 TREATED WOOD WASTE

14-11.14A General

Section 14-11.14 applies if treated wood waste is shown on the Bid Item List.

Section 14-11.14 includes specifications for handling, storing, transporting, and disposing of treated wood waste. Manage treated wood waste under Health & Safety, Div. 20, Chap. 6.5, Art. 11.2.

14-11.14B Submittals

Within five business days of disposing of treated wood waste, submit as an informational submittal a copy of each completed shipping record and weight receipt.

14-11.14C Training

Provide training to personnel who handle or may come in contact with treated wood waste. Training must include:

- 1.Requirements of Title 8, CA Code of Regs.
- 2.Procedures for identifying and segregating treated wood waste

- 3.Safe handling practices
- 4.Requirements of Health & Safety Code, Div. 20, Chap. 6.5, Art. 11.2
- 5.Proper disposal methods

Maintain training records for 3 years.

14-11.14D Storage of Treated Wood Waste

Until disposal, store treated wood waste using the following methods:

- 1.Raise the waste on blocks above a foreseeable run-on elevation and protect it from precipitation for no more than 90 days.
- 2.Place the waste on a containment surface or pad protected from run-on and precipitation for no more than 180 days.
- 3.Place the waste in water-resistant containers designed for shipping or solid waste collection for no more than 1 year.
- 4.Place the waste in a storage building as defined in Health & Safety Code, Div. 20, Chap. 6.5, Art. 11.2, section 25230.6.

Prevent unauthorized access to treated wood waste using a secure enclosure such as a locked chain-link-fenced area or a lockable shipping container located within the job site.

Resize and segregate treated wood waste at a location where debris including sawdust and chips can be contained. Collect and manage the debris as treated wood waste.

Identify treated wood waste and accumulation areas using water-resistant labels that comply with Health & Safety Code, Div. 20, Chap. 6.5, Art. 11.2, section 25230.5. Labels must include:

1. Label or mark as follows: "TREATED WOOD WASTE -- Do not burn or scavenge."
2. Treated Wood Waste Handler Name and Address
3. Accumulation Date
4. The words Caltrans District and the district number
- 5.The words Construction Contract and the contract number
- 6.District office address
- 7.Engineer's name, address, and telephone number
- 8.Contractor's contact name, address, and telephone number
- 9.Date placed in storage

14-11.14E Transport and Disposal of Treated Wood Waste

Dispose of treated wood waste within:

- 1.90 days of generation if stored on blocks
- 2.180 days of generation if stored on a containment surface or pad

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3.1 year of generation if stored in a water-resistant container or within 90 days after the container is full, whichever is shorter.

4.1 year of generation if stored in a storage building as defined in Health & Safety Code, Div. 20, Chap. 6.5, Art. 11.2.

Before transporting treated wood waste, obtain agreement from the receiving facility that it will accept the waste. Protect shipments of the waste from loss and exposure to precipitation. For projects generating 10,000 lb or more of treated wood waste, request a generator's EPA Identification Number from the Engineer at least 5 business days before the 1st shipment. Each shipment must be accompanied by a shipping record such as a bill of lading or invoice that includes:

- 1.The words Caltrans District and the district number
- 2.The words Construction Contract and the contract number
- 3.District office address
- 4.Engineer's name, address, and telephone number
- 5.Contractor's name, contact person, and telephone number
- 6.Receiving facility's name and address
- 7.Description of the waste (e.g., treated wood waste with preservative type if known or unknown/mixture)
- 8.Project location
- 9.Estimated weight or volume of the shipment
- 10.Date of transport
- 11.Date of receipt by the treated wood waste facility
- 12.Weight of shipment measured by the receiving facility
- 13.Generator's US EPA Identification Number for projects generating 10,000 lbs or more of treated wood waste

The shipping record must be 8-1/2 by 11 inches and a 4-part carbon or carbonless form to provide copies for the Engineer, transporter, and treated wood waste facility.

Dispose of treated wood waste at an approved California disposal site operating under a RWQCB permit that includes acceptance of treated wood waste.

15 EXISTING FACILITIES

15-1.03 CONSTRUCTION

15-1.03B Removing Concrete

All materials resulting from Remove and Dispose Concrete and Structural Concrete will be the responsibility of the Contractor to dispose of in accordance with Section 14-01 of the Standard Specifications. Remove and Dispose Structural Concrete shall include all materials of existing foundations.

15-1.04 PAYMENT

The contract price paid by lump sum for Remove and Dispose Structures and Foundations includes the demolition, export, and disposal of existing concrete structures to a County approved disposal facility.

The contract price paid by lump sum of Abandon Utility includes locating existing natural gas, sewer line, and domestic water lines, capping the lines per local authority standards, and installing Class 2 (3/4") Aggregate Base to a compaction level of 95%.

The contract unit price paid by each for Potholing (Vactor Extraction) includes full compensation for the labor, materials, tools, equipment to locate the facility, verify its depth and location including backfilling. Backfill must meet 95% compaction in the new roadway and within 3 feet of the new roadway. Potholes greater than 3 feet from the new roadway must be compacted to 90%.

17 GENERAL

17-2 CLEARING AND GRUBBING

17-2.04 PAYMENT

The contract price paid by lump sum for Clearing and Grubbing includes, but is not limited to the removal of shrubs, vegetation and other materials, tree trimming, stump removal, hauling, site restoration and clean-up.

Solano County will clear all soil materials and debris from the proposed locations of the material storage bins, retaining pond, new access gate, and new equipment building at the Rio Vista site. Clearing and grubbing per contract will involve minimal vegetation removal at these locations.

19 EARTHWORK

19-1 GENERAL

19-1.01 GENERAL

19-1.01A Summary

The proposed site for the new shelter for Benicia DOIT will need to be graded as shown in the plans.

19-1.04 PAYMENT

The contract unit price paid per cubic yards for Site Preparation includes full compensation for excavation, grading, leveling, compaction, removal and disposal of excess material.

The contract unit price paid per cubic yard for Structural Excavation is a final pay item for the excavation of material directly below and adjacent to new concrete foundations.

19-2 ROADWAY EXCAVATION

19-2.01 GENERAL

19-2.01A Summary

Roadway excavation consists of all excavation involved in the grading and construction of the new Hot-Mix Asphalt area.

19-2.04 PAYMENT

The contract unit price paid per cubic yard for Roadway Excavation is the volume of roadway excavation material, including volume of material involved in:

1. Embankment construction unless a separate bid item for constructing embankments is shown on the Bid Item List
2. Ditch excavation as shown on plans
3. Local borrow excavation

The volume of material for roadway excavation is determined from the average end areas and the distances between them.

If changed conditions or nature of a particular operation make determining the quantities of roadway excavation based on average end areas impractical, the payment quantity is the volume determined using a method best suited to obtain an accurate quantity.

If the quantities of roadway excavation are determined from average end areas and centerline distances, a correction for curvature is not applied to quantities within the roadway prism. In determining the

quantity of material outside the original roadway prism, where the roadway centerline is used as a base, a correction is made for curvature if the centerline radius is 1,000 feet or less.

19-3 STRUCTURAL EXCAVATION AND BACKFILL

19-3.01 GENERAL

19-3.01A Summary

Structural Excavation consists of all excavation involved in the grading and construction of the new foundation for the metal structure.

19-3.04 PAYMENT

The contract unit price paid per cubic yard for Structural Excavation includes full compensation for the volume of excavated material and staging as shown in the plans and Special Provisions.

19-8 RETENTION POND EXCAVATION

19-8.04 PAYMENT

The contract unit price paid by cubic yard for Retention Pond Excavation include full compensation for removal, grading, and shaping of the material as shown in the plans.

Surplus material will be relocated on the site as directed by the Engineer and be placed and trimmed to a consistent surface.

The contract unit price paid per cubic yard for Export includes full compensation for the disposal of excess material offsite, which includes hauling, trucking, and disposal fees.

26 AGGREGATE BASES

26-1.04 PAYMENT

The contract unit price paid by cubic yard for Aggregate Base includes furnishing materials, spreading, moisture conditioning, compacting to 95%, and trimming to grade Class II (3/4") Aggregate Base as shown on the plan, as specified in the Standard Specifications and these Special Provisions.

DIVISION V SURFACINGS AND PAVEMENTS
39 HOT MIX ASPHALT

39-1 GENERAL

39-1.01 GENERAL

39-1.01A Summary

HMA for overlay shall be Type A, and placed using the method compaction process. The asphalt binder mixed with aggregate for HMA Type A shall be Grade PG64-16. The aggregate for HMA Type A shall comply with ½" grading for overlay.

The method compaction equipment has 3 rollers and shall be done in compliance with these Special Provisions and the Standard Specifications. No in-place density testing or in-place acceptance testing will be required as long as the method compaction process is followed. HMA mix design will not include Liquid Antistrip Treatment, Aggregate Lime Treatment, or Warm Mix Asphalt Technology.

Pavement Smoothness will be evaluated by the 12-foot straightedge specification in 39-3.04C (2).

39-1.01A (4)(f) Certifications

The contractor will supply Certificates of Compliance for the following:

HMA

Asphalt binder

Asphalt modifier

Reclaimed asphalt pavement (RAP)

39-2 HOT MIX ASPHALT

39-2.01 GENERAL

39-2.01A General

39-2.01A (3) Submittals

39-2.01A (3)(a) General

The only required submittal for HMA is the Job Mix Formula.

39-2.01A (3)(b) Job Mix Formula

The JMF is only required to contain the mix design documentation and the Safety Data Sheets for asphalt binder and supplemental fine aggregate except fines from dust collectors.

39-2.01B Materials

39-2.01B (2) Mix Design

39-2.01B (2)(a) General

Replace the 1st paragraph of section 39-2.01B (2)(a) with:

The HMA mix design must comply with the section 39-2.02A (4)(e) Department Acceptance.

39-2.01C (2) Spreading and Compacting Equipment

39-2.01C (2)(c) Method Compaction Equipment

Replace the 1st paragraph of section 39-2.01C (2)(c) with:

For method compaction, each paver spreading HMA must be followed by at least one of each of the following 3 types of rollers:

1. Breakdown roller must be a vibratory roller specifically designed to compact HMA. The roller must be capable of at least 2,500 vibrations per minute and must be equipped with amplitude and frequency controls. The roller's gross static weight must be at least 12 tons.

2. Intermediate roller must be an oscillating-type pneumatic-tired roller at least 4 feet wide. Pneumatic tires must be of equal size, diameter, type, and ply. The tires must be inflated to 60 psi minimum and maintained so that the air pressure does not vary more than 5 psi.

3. Finishing roller must be a steel-tired, 2-axle tandem roller. The roller's gross static weight must be at least 7.5 tons.

39-2.01C (4) Longitudinal Joints

39-2.01C (4)(a) General

Delete the 2nd and 3rd paragraphs and replace the 1st sentence of the 4th paragraph of section 39-2.01C (4)(a) with:

Place HMA on adjacent traveled way lanes such that at the end of each work shift, the distance between the ends of HMA layers on adjacent lanes is from 5 to 10 feet.

Kraft paper, or approved bond breaker must be used under temporary tapers to facilitate the removal of the taper when paving operations resume.

39-2.01C (15)(b) Method Compaction (HMA Paving)

Method compaction must consist of performing:

Breakdown roller must be a vibratory roller specifically designed to compact HMA. The roller must be capable of at least 2,500 vibrations per minute and must be equipped with amplitude and frequency controls. The roller's gross static weight must be at least 12 tons.

Intermediate roller must be an oscillating-type pneumatic-tired roller at least 4 feet wide. Pneumatic tires must be of equal size, diameter, type, and ply. The tires must be inflated to 60 psi minimum and maintained so that the air pressure does not vary more than 5 psi.

Finishing roller must be a steel-tired, 2-axle tandem roller. The roller's gross static weight must be at least 7.5 tons.

39-2.01D Payment

Payment for quantity of HMA is described in the Standard Specification. Full compensation for furnishing, placing and compacting HMA is included in the price per ton. Tack coat material and application is also included in the price per ton of HMA.

Full compensation for furnishing, placing and compacting HMA in miscellaneous areas including end edge tapes is include in the price per ton.

DIVISION VI STRUCTURES

51 CONCRETE STRUCTURES

51-1 GENERAL

51-1.02 MATERIALS

The materials used in the cast in place structures shall conform to Standard Specifications. Cast in place structures constitute the foundation and footing for the triple wide modular building.

Concrete for cast in place structures must contain at least 590 pounds of cementitious material per cubic yard.

Concrete sidewalk shall conform to Section 73-3 Concrete Curbs and Sidewalks. Concrete for curbs, sidewalks, landings, and other appurtenances must be minor concrete containing at least 505 pounds of cementitious material per cubic yard.

All excavation will conform to Section 19-3.

52 REINFORCEMENT

52-1.04 PAYMENT

The contract unit price paid per pounds (lbs.) for Bar Reinforcing Steel shall include reinforcing steel, placement, lap bars for lap splicing, ties, and replacement of damaged bars or parts.

Bar Reinforcing Steel shall include all reinforcement installed in all Structural Concrete members and Minor Concrete structures.

73 CONCRETE CURB AND SIDEWALK

73-1.01 GENERAL

Mix design for minor concrete shall be submitted to the Engineer ten (10) working days before intended use. All minor concrete shall be cured by the curing compound method. The curing compound shall be curing compound (6) as specified in the Standard Specifications. The curing compound shall be applied in a manner that will provide a complete coating of all exposed faces of the concrete surface.

73-1.02B Detectable Warning Surfaces

Detectable Warning Surfaces materials shall 3'x 4' Cast In Place metal tiles. Warning surfaces shall be placed in 6" of concrete with no more than a 1.5% slope in any direction.

73-3.04 Payment

The contract unit price paid per square foot price for Detectable Warning Surfaces includes furnishing and installing concrete and truncated dome tiles.

DIVISION VIII MISCELLANEOUS CONSTRUCTION

77 LOCAL INFRASTRUCTURE

77-1 UTILITIES

77-1.01 GENERAL

Test new piping systems, and parts of existing systems that have been altered, extended, or repaired, for leaks and defects. Do not put into service before testing and approval.

Relocate water meter and water meter box materials shall be in accordance with the requirements of the City of Rio Vista Specifications, the City of Rio Vista Design Standards, as shown on the plans, and as directed by the Engineer.

General Locations and Arrangements: Drawing plans and details indicate general location and arrangement of underground piping. Location and arrangement of piping layout take design considerations into account. Install piping as indicated, to extent practical.

Install piping beginning at low point, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends of piping facing upstream. Install gaskets, seals, sleeves, and couplings according to manufacturer's written instructions for using lubricants, cements, and other installation requirements. Maintain swab or drag in line and pull past each joint as it is completed.

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Use manholes for changes in direction, unless fittings are indicated. Use fittings for branch connections, unless direct tap into existing sewer is indicated.

Use proper size increasers, reducers, and couplings where different sizes or materials of pipes and fittings are connected. Reducing size of piping in direction of flow is prohibited.

Install gravity-flow piping and connect to building's sanitary drains, of sizes and in locations indicated. Terminate piping as indicated.

Install piping pitched down in direction of flow, at minimum slope of 2 percent, unless otherwise indicated.

Additional attention is directed to the new electrical facilities to the gasp pumps at Rio Vista Yard. The engineer of record will need to document that the work meets the requirements of 2022 California Electrical Code Articles 501 and 514.

No fire suppression systems will be installed in the Rio Vista Corporation Yard Project building.

77-1.02 PAYMENT

The contract unit price paid per lump sum for Utility Services/Water and Sewer Laterals include the excavation, furnishing and installing required piping, polyethylene tape, manholes, permeable bedding material, Class B fabric, Class II Aggregate Base, compaction, temporary paving materials, and installing T-cut. All work beyond 2' of the building is considered utility service work and it shall conform to the included plans for Rio Vista are included in this bid items.

The contract unit price paid per each for Will Serve Letters include the fee paid to the City of Rio Vista utilities departments. The contractor is directed to the City of Rio Vista's website to review the City's most recent fee schedule.

The contract unit price paid per each for Oil-Water Separator includes full compensation for furnishing materials such as the oil-separator unit, necessary piping as shown on the plan, excavation, installation, bedding, backfill compaction, and grading as shown on the plans.

80 FENCES

80-3 CHAIN LINK FENCE

80-3.01 GENERAL

There are existing chain link fence approximately 63 linear feet at the rear of the building and 24 linear feet near the gate that will be removed.

80-3.04 PAYMENT

The contract unit price paid per linear foot of Chain Link Fence shall include full compensation for removal and disposal of existing fence, materials and labor to install a 6 foot high galvanized chain link fence with three strand barbed wire and corner posts, line posts, pull posts and top rail. The Sliding Gate with hardware shall be paid as Chain Link Fence and no additional compensation is allowed.

DIVISION IX TRAFFIC CONTROL DEVICES

84 MARKINGS

84-2 TRAFFIC STRIPES AND PAVEMENT MARKINGS

84-2.04 PAYMENT

The contract unit price paid by linear foot for Thermoplastic Traffic Stripe and Markings include material and placement of stripe/markings by each traffic stripe detail or markings details as shown on the plan, as specified in the Standard Specifications and these Special Provisions.

87 ELECTRICAL SYSTEMS

87-1.01 GENERAL

Conduit to be installed underground shall be Type 1 or Type 3 unless otherwise specified.

The conduit in a foundation and between a foundation and the nearest pull box shall be Type 1 or Type 3.

When a standard coupling cannot be used for joining Type 1 conduit, a UL-listed threaded union coupling conforming to the provisions in Section 86-2.05C, "Installation," of the Standard Specifications, or a concrete-tight split coupling, or concrete-tight set screw coupling shall be used.

After conductors have been installed, the ends of conduits terminating in pull boxes, service equipment enclosures, and controller cabinets shall be sealed with an approved type of sealing compound.

87-1.03C Installation of Pull Boxes

Pull boxes used outdoors or in damp location shall be fabricated of code gauge galvanized steel with raintight welded seams, welded conduit hubs on top or side, screw covers with neoprene or koprene gaskets. Hardware shall be nonferrous metal or hot-dipped galvanized. Entire boxes painted two coats of rust-inhibiting aluminum paint, "Rustoleum" or equal.

87-1.04 PAYMENT

The contract price per lump sum for Electrical and Telecom System includes all cost of materials to supply power and telecommunications wiring throughout the shelter and prefabrication building including demolition of the existing services to the building and fuel station, lighting, switches, conduit, pull boxes, receptacles, as shown in the plans.

The contract unit price per linear foot for 2" PVC Conduit (Schedule 80) includes full compensation for excavation, furnishing materials, installation, backfill, compaction, and clean up for the electrical and telecom facilities to connect the new Benicia Shelter to the existing meter at the old Benicia shelter in accordance to Section 87-1.05 General Electrical Requirements.

The contract unit price per lump sum for Telecom/Electric Service Drop and Lines includes full compensation for connecting to the utilities pole and any excavation, furnishing materials, installation, backfill, compaction, and clean up for the electrical and telecom facilities to connect the Rio Vista new garage to the existing facilities and the gas pumps to the existing office building in accordance to Section 87-1.05 General Electrical Requirements.

87-1.05 GENERAL ELECTRICAL REQUIREMENTS

1.01 SECTION 26 0510 ELECTRICAL GENERAL PROVISIONS

- A. Furnish all labor, materials, apparatus, tools, equipment, transportation, temporary construction and special or occasional services as required to make a complete working electrical installation, as shown on the drawings or described in these specifications.

1.02 REFERENCES

- A. Reference to codes, standards, specifications and recommendations of technical societies, trade organizations and governmental agencies shall mean the latest edition of such publications adopted and published prior to submittal of the bid proposed. Such codes or standards shall be considered a part of this specification as though fully repeated herein.
- B. When codes, standards, regulations, etc., allow work of lesser quality or extent than is specified under this Division, nothing in said codes shall be construed or inferred as reducing the quality, requirements or extent of the drawings and specifications.
- C. California Code of Regulations (CCR) Title 24, Part 3, Basic Electrical Requirements, State Building Standards Electrical Code
- D. National Fire Protection Association (NFPA).
- E. Equipment and materials specified under this Division shall conform to the following standards where applicable:
 - 1. UL Underwriters' Laboratories
 - 2. ASTM American Society for Testing Materials

3. CMB Certified Ballast Manufacturers
4. IPCEA Insulated Power Cable Engineer Assoc.
5. NEMA National Electrical Manufacturer's Assn.
6. ANSI American National Standards Institute
7. ETL Electrical Testing Laboratories
- F. All base material shall be ASTM and/or ANSI standards.
- G. All electrical apparatus furnished under this Section shall conform to National Electrical Manufacturers Association (NEMA) standards and the NEC and bear the Underwriters' Laboratories (UL) label where such label is applicable.

1.03 SUBMITTALS

- A. See Division 1 for submittal procedures.
- B. Where items are noted as "or equal" a product of equal design, construction and performance will be considered. Contractor must submit all pertinent test data, catalog cuts and product information required to substantiate that the product is in fact equal. Refer to Division 1, General Requirement for additional requirements. Only one substitution will be considered for each product specified.
- C. Submittals shall consist of detailed shop drawings, specifications, "catalog cuts" and data sheets containing physical and dimensioned information, performance data, electrical characteristics, material used in fabrication, material finish and shall clearly indicate those optional accessories which are included and those which are excluded. Shop drawings shall be prepared using AutoCAD 2018, Revit 2019, or later editions.

1.04 CUTTING, PAINTING AND PATCHING

- A. Structural members shall in no case be drilled, bored or notched in such a manner that will impair their structural value. Cutting of holes, if required, shall be done with core drill and only with the approval of the Architect.
- B. Cutting and digging shall be under the direct supervision of the General Contractor. Include as necessary for the work in this section.
- C. The contractor shall be responsible for returning any surface from which he has removed equipment or devices to the condition and finish of the adjacent surfaces.

1.05 SUPERVISION

- A. Contractor shall personally or through an authorized and competent representative constantly supervise the work from beginning to completion and, within reason, keep the same workmen and foreman on the project throughout the project duration.

1.06 PROTECTION

- A. Keep conduits, junction boxes, and outlet boxes, and other openings closed to prevent entry of foreign matter: cover fixtures, equipment, and apparatus and protect against dirt, paint, water, chemical, or mechanical damage, before and during construction period. Restore to original condition any fixture, apparatus, or equipment damaged prior to final acceptance, including restoration of damaged shop coats of paint, before final acceptance. Protect bright finished surfaces and similar items until in service. No rust or damage will be permitted.

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1.07 EXAMINATION OF SITE

- A. The Contractor shall visit the site and determine the locale, working conditions, conflicting utilities, and the conditions in which the electrical work will take place. No allowances will be made subsequently for any costs which may be incurred because of any error or omission due to failure to examine the site and to notify the Engineer of any discrepancies between drawings and specifications and actual site conditions. Schedule visits at least 1 week in advance with Owner's Maintenance staff.

1.08 ENVIRONMENTAL REQUIREMENTS

- A. After other work such as sanding, painting etc. has been completed, clean lighting fixtures, panelboards, switchboards, and other electrical equipment to remove dust, dirt, and grease, or other marks, and leave work in clean condition.

1.09 VOLTAGE CHECK

- A. At completion of job, check voltage at several points of utilization on the system which has been installed under this contract. During test, energize all loads installed. Measure 3-Phase voltages and note percentage differences. Submit report to Engineer. Include copy in O&M Manual.

1.10 TESTS

- A. Perform tests as specified to prove installation is in accordance with contract requirements. Perform tests in the presence of the Engineer and furnish test equipment, facilities, and technical personnel required to perform tests. Tests shall be conducted during the construction period and at completion to determine conformity with applicable codes and with these Specifications. Tests, in addition to specific system test described elsewhere, shall include:
 - 1. Insulation Resistance: All 600-volt insulation shall be tested at 1,000 volts D.C for one minute on all feeder and branch circuit conductors including the neutral, and make a typed record of all readings to be included in the maintenance instructions. The direct current amperes shall be recorded at start and at one minute. The value shall be declining and not more than one microampere.
 - 2. Circuit Continuity: Test all feeder and branch circuits for continuity. Test all neutrals for improper ground.
- B. Equipment Operations: Test motors for correct operation and rotation.
- C. Product Failure: Any products which fail during the tests or are ruled unsatisfactory by the Engineer shall be replaced, repaired, or corrected as prescribed by the Engineer at the expense of the Contractor. Tests shall be performed after repairs, replacements, or corrections until satisfactory performance is demonstrated.
- D. Miscellaneous: Include all test results in the maintenance manual. Cost, if any, for all tests shall be paid by the Contractor.

1.11 DRAWINGS

- A. Layout: General layout shown on the drawing shall be followed except where other work may conflict with the drawings.
- B. Accuracy:

1. Drawings for the work under this section are diagrammatic.
2. Contractor shall verify lines, levels, and dimensions shown on the drawings and shall be responsible for the accuracy of the setting out of work and for its strict conformance with existing conditions at the site.
3. Contractor shall insure reconnection of existing equipment and circuits affected by contract demolition whether or not reconnection is specifically shown on the contract documents.

1.12 PROJECT RECORD DRAWINGS

- A. Refer to General Conditions for contractual requirements. Provide project record drawings as required by the General Provisions of the specifications and as required herein. Such drawings shall fully represent installed conditions including actual locations of outlets, true panelboard connections following phase balancing routines, correct conduit and wire sizing as well as routing, revised fixture schedule listing the manufacturer and products actually installed and revised panel schedule. All changes to drawings shall be made by qualified draftspersons to match existing linework and lettering as close as possible. When all the changes have been made to the trade drawings, contractor shall produce one (1) full size (E-Size) updated set of trade drawing(s) utilizing AutoCad 2018 or newer and supply one (1) set of USB Flash Drive (USB) reflecting same.

1.13 MAINTENANCE AND OPERATING INSTRUCTIONS

- A. Furnish to the Engineer four (4) hard back 3-ring binders containing all bulletins, operating and maintenance instructions and part lists and other pertinent information for each and every piece of equipment furnished under this specification. Include service telephone numbers. Each binder shall be indexed into sections and labeled for easy reference. Bulletins containing more information than the equipment concerned shall be properly stripped and assembled.
- B. At the time of completion, a period of not less than eight hours shall be allotted by the Contractor for instruction of building operating and maintenance personnel in the use of all systems. All personnel shall be instructed at one time, the Contractor making all necessary arrangements with manufacturer's representative. The equipment manufacturer shall be requested to provide product literature and application guides for the user's reference. Costs, if any for the above services shall be paid by the Contractor.

1.14 WARRANTIES

- A. Furnish to the Engineer four (4) hard back 3-ring binders containing all warranties of every piece of equipment furnished under this specification. Include terms and limitations of warranties, contact names, addresses, and telephone numbers of manufacturer. Each binder shall be indexed into sections and labeled for easy reference for each equipment warranty.

1.15 EXTRA MATERIALS

- A. All special tools for proper operation and maintenance of the equipment provided under this Section shall be delivered to the District's representative

PART 3 EXECUTION

1.01 WORKMANSHIP

- A. Preparation, handling, and installation shall be in accordance with manufacturer's written instructions and technical data particular to the product specified and/or accepted equal except

as otherwise specified. Coordinate work and cooperate with others in furnishing and placing this work. Work to reviewed shop drawings for work done by others and to field measurements as necessary to properly fit the work.

- B. Conform to the National Electrical Contractor's Association "Standard of Installation" for general installation practice.

1.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

PART 87-1.06 UNDERGROUND ELECTRICAL

1.01 SECTION INCLUDES

SECTION 33 7119 UNDERGROUND ELECTRICAL STRUCTURES

- A. PVC Coated Rigid Metal Conduit
- B. PVC Non-metallic Conduit and Ducts
- C. Underground pull boxes
- D. Underground vaults
- E. Metal conduit.
- F. Nonmetallic duct.
- G. Manholes.
- H. Duct Banks
- I. Accessories

1.02 REFERENCES

- A. ANSI C80.1 - Rigid Steel Conduit, Zinc-Coated.
- B. ASTM A 48 - Gray Iron Castings; 1993.
- C. ASTM C 858 - Underground Precast Concrete Utility Structures.
- D. ASTM C 891 - Installation of Underground Precast Utility Structures.
- E. ASTM C 1037 - Inspection of Underground Precast Utility Structures.
- F. NEMA TC 6 - PVC and ABS Plastic Utilities Duct for Underground Installation.
- G. NEMA TC 9 - Fittings for ABS and PVC Plastic Utilities Duct for Underground Installation.
- H. NEMA TC 10 - PVC and ABS Plastic Communications Duct and Fittings for Underground Installation.
- I. NEMA TC 14 - Filament-Wound Reinforced Thermosetting Resin Conduit and Fittings.
- J. UL 651A - Type EB and A PVC Conduit and HDPE Conduit.

1.03 SUBMITTALS

- A. See Division 1 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide for nonmetallic conduit and manhole accessories.
- C. Shop Drawings: Indicate dimensions, reinforcement, size and locations of openings, and accessory locations for precast manholes, vaults, and pullboxes. Shop drawings shall include reinforcements for conduit openings and stamped by a registered structural engineer.
- D. Manufacturer's Instructions: Indicate application conditions and limitations of use stipulated by product testing agency specified under Quality Assurance. Include instructions for storage, handling, protection, examination, preparation, and installation of product.

- E. Field Samples: Provide sample of actual plastic duct delivered to site, two each 2 feet (610 mm) long.
- F. Project Record Documents: Record actual routing and elevations of underground conduit and duct, and locations and sizes of manholes.
- G. Shop drawings of manhole, vault, and pullbox covers complete with nameplate schedule.

1.04 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience and with service facilities within 100 miles (160 km) of Project.
- C. Products: Listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

PART 2 PRODUCTS

2.01 CONDUIT AND DUCT

- A. PVC Coated Rigid Steel Conduit: ANSI C80.1.
 - 1. Product: Rigid Steel Conduit, corrosion-resistant, pvc coated. Shall be hot dip galvanized, to which a minimum 40-mil thick PVC coating has been bonded to the outside of the conduit. A 2-mil coat of urethane coating shall be bonded to the inside. Coating shall be free of pinholes. Elbows shall be factory made and coated.
- B. Plastic Utilities Duct:
 - 1. Conduit and fittings shall be homogeneous plastic material free from visible cracks, holes or foreign inclusions. The conduit bore shall be smooth and free of blisters, nicks or other imperfections which could damage conductors or cables.
 - 2. Materials: Polyvinyl Chloride (PVC) schedule 40. Material shall comply with NEMA TC-2 for conduit and NEMA TC-3 for fittings.
 - 3. Product: Carlon P&C Duct or approved equal.
 - 4. Plug fittings with pull tab.
 - 5. Nominal size: as shown in drawings.
- C. Reinforced Resin Conduit and Fittings: NEMA TC 14, Type SW.
- D. Concrete - Concrete for conduit encasement shall be Class C with 3/8" maximum aggregate and shall be red concrete (iron oxide) with 28-days compressive strength of 2,500 psi.

2.02 UNDERGROUND PULLBOXES

- A. Manufacturers: Jensen Pre-cast, Christy Concrete Products, BES Concrete Products
- B. Sizes: 17" (width) x 30" (length) x 24" (depth), (Minimum Dimensions, U.O.N.).
- C. Pullboxes shall be precast concrete as indicated on plans.
 - 1. Traffic Box - High density reinforced concrete box with non-setting shoulders positioned to maintain grade and facilitate back filling. Utility boxes shall be used where shown on the drawings. Use steel checker plate, H/20 loading, bolt down. Provide 12" extension pieces.
 - 2. General Utility Box - High density reinforced concrete box with non-setting shoulders positioned to maintain grade and facilitate back filling. Utility boxes shall be used where shown on the drawings. Use reinforced concrete lids on unfinished grades (i.e. grass, dirt, etc.), and steel checker plate lids on finished grades (i.e. concrete, asphalt, etc.) Provide 12" extension

pieces.

2.03 UNDERGROUND VAULTS

- A. Manufacturers: Utility Vault, or approved equal.
- B. Sizes: 3' (width) x 5' (length) x 3' (depth), (Minimum Dimensions, U.O.N.).
- C. Vaults shall be precast concrete as indicated on plans.
- D. Telecommunication Vaults - High density reinforced concrete with 7/8" dia. pull irons, 12" dia. x 2" sump, 1/2" dia. plastic inserts. Utility Vault Company, Inc., Model #PTS-3660, or approved equal.
 - 1. Cover: Traffic rated (H/20 minimum) with guard bars, height adjustment brackets and torsion assisted opening.
 - 2. Ducts: 4" dia. "term-a-ducts" for minimum number of conduits, as shown on drawings.
 - 3. Racks: package per most current Pac Bell specifications
 - 4. Accessories: provide grade rings as appropriate to maintain grade and facilitate back filling.
- E. Electrical Vaults - High density reinforced concrete with (4) 7/8" diameter lifting inserts or pulling irons.
 - 1. Covers
 - a. Traffic - full traffic rated, with H/20 loading. Steel checker plate, hinged spring assist with non-slip resistant.
 - b. Pedestrian - pedestrian, slip resistant
 - 2. Types
 - a. Nominal 17" x 30" Vaults - without base, minimum depth 24", mastic sealant for joints, and a term-a-duct per PG&E specifications. Utility Vault Model #04-3513
 - b. Nominal 3' x 5' Vaults - with base, 14" diameter x 4" sump (2 each), 1" diameter ground rod knock-outs (2 each), term-a-ducts and knock-outs per conduit sizes in site plans, and per PG&E specifications.
 - c. Cable racks: Fiberglass. Minimum load rating of 800 pounds.

2.04 PRECAST CONCRETE MANHOLES

- A. Manufacturers: Forni Corporation, Utility Vault, Associated Concrete Products.
- B. Description: Precast manhole designed in accordance with ASTM C 858, comprising modular, interlocking sections complete with accessories.
- C. Size and Shape: As indicated on plans. At least six (6) feet high interior clearance.
- D. Frames and Covers: ASTM A 48; Class B30 gray cast iron, 36-inch size, machine finished with flat bearing surfaces. Provide cover marked as scheduled to indicate utility. Cover and frame shall have provisions for bolting cover to manhole.
- E. Duct Entry Provisions: Reinforced opening/windows with plastic duct terminators and diaphragms as indicated on plans.
- F. Duct Entry Locations: As indicated.
- G. Duct Entry Size: 4 inch for telecommunication manholes; 5 inch for electrical manholes.
- H. Cable Pulling Irons: Use galvanized rod and hardware. Locate opposite each duct entry. Provide watertight seal.
- I. Cable Rack Inserts: Fiberglass. Minimum load rating of 800 pounds (365 kg). Locate at 3 feet on center.
- J. Cable Rack Mounting Channel: 1-1/2 x 3/4-inch steel channel, 48-inch length. Provide cable rack arm mounting slots on 1-1/2 inch centers.

- K. Cable Supports: Porcelain clamps and saddles.
- L. Ladder: Fiberglass, [12"± O.C.] rungs, with top hooks to engage manhole step in riser casting. Provide one ladder for each manhole.
- M. Sump Covers: ASTM A 48; Class 30B gray cast iron.
- N. Source Quality Control: Inspect manholes in accordance with ASTM C 1037.
- O. Cover Locks: Triple chrome plated alloy steel bolts with unique wrench pattern, removable only with special key. "Man-Lock" by McGard, no known equal. Provide one lock bolt per manhole, all fitting same key, with seats to match covers provided (conical or flat). Provide one large T key and 4 socket keys. Key patterns shall be geographically controlled- no other keys in CA shall be the same. Manufacturer to keep key records to make additional keys available to authorized personnel only.

2.05 ACCESSORIES

- A. Underground Warning Tape: 4-inch-wide plastic tape, detectable type colored red with suitable warning legend describing buried electrical lines. Orange colored tape with suitable warning legend will describe buried telecommunications lines.
- B. Duct spacers shall be Wunpeece, Carlon Snap-N-Stac Combo Spacers or equal.
- C. Ground Rod - 3/4" x 10' minimum, copper clad. Blackburn, Erico, or equal.
- D. Grounding Electrode Conductor - # 1 bare copper conductor
- E. Pullrope - 3/16" dia. min., 150 lbs test, yellow nylon
- F. Traceable mule tape. 5/8" diameter min. 1,800 lbs. with sequential footage markings. Install mule tape in all spare ducts/conduits.
- G. Duct Plugs - removable, reusable, plastic plugs. Watertight, airtight, and gastight with provisions for pullrope attachments.
- H. Duct Seal - non hardening, rated for outdoor locations.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Duct bank routing is shown in approximate locations unless dimensions are indicated. Route as required to complete duct system. Verify routing and termination locations of duct bank prior to excavation for rough-in.
- C. Pullboxes, Vaults and Manhole locations are shown in approximate locations unless dimensions are indicated. Locate as required to complete duct bank system. Verify locations of pullboxes, vaults and manholes prior to excavating for installation.
- D. Contractor shall locate pullboxes, vaults, and manholes away from drainage path.

3.02 DUCT BANK INSTALLATION

- A. Underground conduits shall be as specified PVC for electrical and telecommunications. PVC Coated rigid steel conduit shall be used in areas crossing steam piping, minimum 10 feet length on either side of steam piping. Do not run new conduits parallel to steam piping. Maintain a minimum of 5 feet clearance between steam or hot water piping and electrical conduits.

B. Layout

1. Duct bank routing shown in the drawings is approximate. Exact duct banks routing shall be determined with close coordination with Project Manager. Account for existing field conditions, and new field conditions in coordinating the final routing of duct banks.
2. Conduct exploratory excavation sufficiently ahead so that any obstacles can be determined pre-hand, and mediated sooner to make necessary offsets and bends around existing obstacles.

C. Depth and Clearances

1. Install power and communications duct to locate top of duct bank minimum 30 inches below finished grade.
2. Install duct with minimum slope of 4 inches per 100 feet (0.33 percent). Slope duct away from building entrances and to manholes where possible.
3. Refer to trenching detail for minimum clearance/separation between utilities.

- D. All underground duct banks 600V and above shall be concrete encased.

E. Installation

1. Install conduits as recommended by manufacturer using approved couplings, fittings, and cement.
2. Cut duct square using saw or pipe cutter; de-burr cut ends.
3. Insert duct to shoulder of fittings; fasten securely.
4. Join nonmetallic duct using adhesive as recommended by manufacturer.
5. Wipe nonmetallic duct dry and clean before joining. Apply full even coat of adhesive to entire area inserted in fitting. Allow joint to cure for 20 minutes, minimum.
6. Install no more than equivalent of four 90-degree bends between pull points for power.
7. Install no more than equivalent of two 90-degree bends between pull points for tel/com.
8. Provide suitable fittings to accommodate expansion and deflection where required.
9. Terminate duct at manhole entries using end bell.
10. Stagger duct joints vertically in concrete encasement 6 inches minimum.
11. Use suitable separators and chairs installed not greater than 4 feet on centers.
12. Band ducts together before backfilling.
13. Securely anchor duct to prevent movement during concrete placement.
14. Use mineral pigment (iron oxide) to color concrete red for electrical ducts.
15. Provide minimum 4-inch concrete cover at bottom, top, and sides of duct bank.
16. Connect to existing concrete encasement using dowels.
17. Connect to manhole wall using dowels.
18. Provide mule tape in each empty duct.
19. Immediate after backfilling and compaction swab ducts. Draw a testing mandrel not less than 12 inches long with a diameter 1/4" less than the interior diameter of the conduit through each conduit. Then draw a stiff wire bristle brush and size to match conduit diameter until conduit is clear of all particles of earth, sand, and gravel. Use suitable duct plugs to protect installed duct against entrance of dirt and moisture.
20. Interface installation of underground warning tape with backfilling. Install tape 12 inches above concrete envelope.

3.03 PRE-CAST MANHOLE, VAULTS, AND UNDERGROUND PULLBOX INSTALLATION

- A. Install and seal precast sections in accordance with ASTM C 891.
- B. Install manholes plumb.
- C. Use precast neck and shaft sections to bring manhole cover to finished elevation. Refer to grading plans for finished elevations.
- D. Attach cable racks to inserts after manhole installation is complete.
- E. Provide crushed rocks min 6" in bottom of manholes for proper drainage or install drains and connect to closest site drainage system.
- F. Install two ground rods, one on each opposite corners. Ground rods shall project 6" above manhole floor.
- G. Clean manhole of any debris prior to substantial completion. Drain manhole of water.
- H. Install drains in manholes and connect to 4-inch (DN100) pipe terminating in 1/3 cu yd (1/4 cu m) crushed gravel bed under provisions of Section 15146.
- I. Dampproof exterior surfaces, joints, and interruptions of manholes after concrete has cured 28 days, under provisions of Section 07115.
- J. Backfill manhole excavation under the provisions of Section 02316.

PART 87-1.06 ELECTRICAL MATERIALS

**1.01 SECTION INCLUDES SECTION 26 0512
BASIC MATERIAL AND METHODS**

- A. Conduit, raceways and fittings.
- B. Wires and Cables for 600 Volts and less.
- C. Wire connections.
- D. Wire devices.
- E. Outlet boxes.
- F. Pull and junction boxes.
- G. Disconnect Switches.
- H. Fuses.
- I. Supporting Devices.
- J. Identifying Devices.
- K. Grounding and Bonding

1.02 SUBMITTALS

- A. Submit in accordance with the requirements of Division 1 the following items:
 - 1. A list of conduit types indicating where each type of conduit will be used. Indicate conduit manufacturers and fittings to be used.
 - 2. Wires and Cables.
 - 3. Wiring Devices and Plates
 - 4. Nameplates, including engraving schedules where engraved plates are specified.
 - 5. Fused disconnect switches.

1.03 QUALITY ASSURANCE

- A. Products: Listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

1.04 REFERENCES

- A. ANSI C80.1 - Rigid Steel Conduit, Zinc Coated - latest edition.
- B. ANSI C80.3 - Electrical Metallic Tubing, Zinc Coated - latest edition.
- C. NECA (INST) - Standard of Installation; National Electrical Contractors Association - latest edition.
- D. NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit and Cable Assemblies; latest edition.
- E. NEMA RN 1 - Polyvinyl Chloride (PVC) Externally Coated Galvanized Rigid Steel Conduit and Intermediate Metal Conduit - latest edition.
- F. NEMA TC 2 - Electrical Plastic Tubing (EPT) and Conduit (EPC-40 and EPC-80) - latest edition.
- G. NEMA TC 3 - PVC Fittings for Use with Rigid PVC Conduit and Tubing - latest edition.
- H. NFPA 70 - National Electrical Code - latest edition.

PART 3 EXECUTION

1.01 CONDUIT AND RACEWAY APPLICATIONS

- A. Rigid Steel Conduit: Use rigid steel conduit for the following locations or conditions:
 - 1. All exterior applications
 - 2. All conduits larger than 2" trade diameter.
 - 3. All conduits indoor below eight (8) feet above finished floor.
- B. Electrical Metallic Tubing (EMT): EMT is allowed for the following conditions:
 - 1. Interior only and above eight (8) feet from finished floor.
 - 2. Interior only and when entering a panel from above.
- C. Liquidtight Flexible Metallic Conduit: Use Liquidtight for the following conditions:
 - 1. In damp and wet locations for connections to motors, transformers, vibrating equipment and machinery.
 - 2. Connections to all pump motors, flow switches, and similar devices.
- D. Rigid Non-Metallic Conduit, Polyvinyl Chloride (PVC) Schedule 40:
 - 1. Underground installation.

1.02 CONDUIT INSTALLATION

- A. General
 - 1. All conduit runs shown on the plans are sized based on the use of rigid steel conduit and THWN copper conductors. If conductor type is changed the contractor shall be responsible for resizing conduits to meet code. In no case is conduit to be sized smaller than 3/4" trade diameter.
 - 2. Low voltage wiring shall be installed in conduit, minimum 3/4" trade diameter.
 - 3. Conduits shall be tightly covered and well protected during construction using metallic bushings and bushing "pennies" to seal open ends.
 - 4. In making joints in rigid steel conduit, ream conduit smooth after cutting and threading.
 - 5. Clean any conduit in which moisture or any foreign matter has collected before pulling in conductors. Paint all field threaded joints to prevent corrosion.
 - 6. In all empty conduits or ducts, install an 1100-pound tensile strength polyethylene pulling rope.
 - 7. Conduit systems shall be electrically continuous throughout. Install code size, uninsulated, copper grounding conductors in all conduit runs, grounding conductor shall be bonded to conduit, equipment frames and properly grounded.

B. Layout:

1. All new conduits shall be concealed. Any field conditions that does not allow concealment of conduits shall be reviewed with the Architect prior to rough-in.
2. Locations of conduit runs shall be planned in advance of the installation and coordinated with concrete work, plumbing and framing.
3. Where practical install conduits in groups in parallel vertical or horizontal runs and at elevations that avoid unnecessary off-sets.
4. Low voltage conduit shall be grouped separately and labelled every 10 ft interval as to system (i.e. fire, control, etc.)
5. Exposed conduit shall be run parallel or at right angles to the centerlines of the columns and beams.
6. Conduits shall not be placed closer than 12 inches from a parallel hot water or steam line or three inches from such lines crossing perpendicular to the runs.
7. In long runs of conduit, provide sufficient pull boxes per NEC inside buildings to facilitate pulling wires and cables. Support pull boxes from structure independent of conduit supports. These pull boxes are not shown on the plans.

C. Supports:

1. All raceway systems shall be secured to building structures using specified fasteners, clamps and hangers spaced according to Code.
2. Support single runs of conduit using two hole pipe straps. Where run horizontally on walls in damp or wet locations, install "clamp blocks" to space conduit off the surface.
3. Multiple conduit runs shall be supported using "trapeze" hangers fabricated from 3/8-inch diameter, threaded steel rods secured to building structures. Fasten conduit to construction channel with standard two hole pipe clamps. Provide lateral seismic bracing for hangers.

4. Installation

- a. Locate and install anchors, fasteners, and supports in accordance with NECA "Standard of Installation".
 - 1) Do not fasten supports to pipes, ducts, mechanical equipment, or conduit.
 - 2) Do not drill or cut structural members.
- b. Rigidly weld support members or use hexagon-head bolts to present neat appearance with adequate strength and rigidity. Use spring lock washers under all nuts.
- c. Install surface-mounted cabinets and panelboards with minimum of four anchors.
- d. In wet and damp locations use steel channel supports to stand cabinets and panelboards 1 inch (25 mm) off wall.
- e. Use sheet metal channel to bridge studs above and below cabinets and panelboards recessed in hollow partitions.

D. Terminations and Joints:

1. Raceways shall be joined using specified couplings or transition couplings where dissimilar raceway systems are joined.
2. Rigid conduit connection to enclosures shall be made by Myers type grounding hubs only. EMT connections to enclosures shall be made with compression connector with grounding lock-nuts or bushings.
3. Conduit terminations exposed at weatherproof enclosures and cast outlet boxes shall be made watertight using appropriate connectors and hubs.
4. Install expansion couplings where any conduit crosses a building separation or expansion joint.

5. Install cable sealing bushings on all conduits originating outside the building walls and terminating in switchgear, cabinets or gutters inside the building. Install cable sealing bushings or caulk conduit terminations in all grade level or below grade exterior pull, junction or outlet boxes.
- E. Penetrations:
 1. Furnish and install metal sleeves for all exposed interior conduit runs passing through concrete floors or walls. Following conduit installation, seal all penetrations using non-iron bearing, chloride free, non-shrinking, dry-pack, grouting compound.
 2. Install specified watertight conduit entrance seals and membrane clamps at all below grade wall and floor penetrations. Conduits penetrating exterior building walls and building floor slab shall be insulated rigid steel.
 3. Conduits penetrating rated walls, floors, etc. shall be fireproofed.

1.03 CABLE AND WIRE INSTALLATION

- A. Examination
 1. Verify that interior of building has been protected from weather.
 2. Verify that mechanical work likely to damage wire and cable has been completed.
 3. Verify that raceway installation is complete and supported.
 4. Verify that field measurements are as indicated.
- B. Preparation
 1. In existing conduits that will be reused, pull out existing conductors.
 2. Completely and thoroughly swab raceway before installing wire.
 3. Use 50/50 solution of Simple Green. Use CO2 to blow water and soap into conduit - let soak to break up dried out pulling compounds, then pull conductors. Pull one conductor at a time if will not pull all out together.
- C. General:
 1. Conductors shall not be in conduit until all work of any nature that may cause injury is completed. Care should be taken in pulling conductors that insulation is not damaged. U.L. approved non-petroleum base and insulating type pulling compound shall be used as needed.
 2. All cables shall be installed and tested in accordance with manufacturer's requirements and warranty.
 3. Block and tackle, power driven winch or other mechanical means shall not be used in pulling conductors of size smaller than AWG # 1.
- D. Splicing and Terminating:
 1. All aspects of splicing and terminating shall be in accordance with cable manufacturer's published procedures.
 2. Make up all splices in outlet boxes with connectors as specified herein with separate tails of correct color to be made up to splice. Provide at least six (6) inches of tails packed in box after splice is made up.
 3. All wire and cable in panels, control centers and equipment enclosures shall be bundled and clamped.
 4. Encapsulate splices in exterior outlet, junction and pull boxes using insulating resin kits. All splices for exterior equipment in pump rooms shall be made up watertight.
 5. Insulate mechanical compression taps AWG #1/0 and larger using pre-molded heat shrink tubing ITCSN Heaving Wall rated to 600V. Heating process should start from the middle of the heat shrink tubing and move to its ends.

E. Identification:

1. Securely tag all branch circuits, noting the purpose of each. Mark conductors with vinyl wrap-around markers. Where more than two conductors run through a single outlet, mark each circuit with the corresponding circuit number at the panelboard.
2. Color code conductors size #6 and larger using specified phase color markers and identification tags.
3. All terminal strips are to have each individual terminal identified with specified vinyl markers.
4. All identification shall be legible and readable after completion of installation.
5. Provide labeling for all switches and receptacle outlets. Self-adhering machine clear tape with black letters.

1.04 INSTALLATION:

- A. Route wire and cable as required to meet project conditions.
 1. Wire and cable routing indicated is approximate unless dimensioned.
 2. Where wire and cable destination is indicated and routing is not shown, determine exact routing and lengths required.
 3. Include wire and cable of lengths required to install connected devices within 10 ft (3000 mm) of location shown.
- B. Install wire and cable in accordance with the NECA "Standard of Installation."
- C. Use wiring methods indicated.
- D. Pull all conductors into raceway at same time.
- E. Use suitable wire pulling lubricant for building wire 4 AWG and larger.
- F. Protect exposed cable from damage.
- G. Support cables above accessible ceiling, using spring metal clips or metal cable ties to support cables from structure or ceiling suspension system. Do not rest cable on ceiling panels.
- H. Use suitable cable fittings and connectors.
 - I. Neatly train and lace wiring inside boxes, equipment, and panelboards.
 - J. Clean conductor surfaces before installing lugs and connectors.
 - K. Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise.
 - L. Use solderless pressure connectors with insulating covers for copper conductor splices and taps, 8 AWG and smaller.
 - M. Use insulated spring wire connectors with plastic caps for copper conductor splices and taps, 10 AWG and smaller.
- N. Trench and backfill for direct burial cable installation as specified in Underground Structure Section. Install warning tape along entire length of direct burial cable.
- O. Identify and color code wire and cable. Identify each conductor with its circuit number or other designation indicated.

1.05 ELECTRICAL CONNECTIONS

- A. Make electrical connections in accordance with equipment manufacturer's instructions.
- B. Make conduit connections to equipment using flexible conduit. Use liquidtight flexible conduit with watertight connectors in damp or wet locations.
- C. Connect heat producing equipment using wire and cable with insulation suitable for temperatures encountered.
- D. Provide receptacle outlet to accommodate connection with attachment plug.

- E. Provide cord and cap where field-supplied attachment plug is required.
- F. Install suitable strain-relief clamps and fittings for cord connections at outlet boxes and equipment connection boxes.
- G. Install disconnect switches, controllers, control stations, and control devices to complete equipment wiring requirements.
- H. Install terminal block jumpers to complete equipment wiring requirements.
- I. Install interconnecting conduit and wiring between devices and equipment to complete equipment wiring requirements.

1.06 INSTALLATION OF BOXES

A. General:

- 1. Leave no un-used openings in any box. Install close-up plugs as required to seal openings.
- 2. Exposed outlet boxes and boxes in damp or wet locations shall be cast metal with gasketed cast metal cover plates.

B. Box Layout:

- 1. Outlet boxes shall be installed at the locations and elevations shown on the drawings or specified herein. Make adjustments to locations as required by structural conditions and to suit coordination requirements of other trades.
- 2. Install junction or pullboxes where required to limit bends in conduit runs to not more than 360 degrees or where pulling tension achieved would exceed the maximum allowable for the cable to be installed. Consult wire and cable manufacturer.

1.07 INSTALLATION OF WIRING DEVICES

A. General

- 1. Install all devices flushmounted unless otherwise noted on the drawings. Comply with layout drawings for general locations. Consult Architect or Owner's Representative for locations that have conflict with other devices or manner not suitable for installation. Avoid placing devices behind open doors.
- 2. Align devices horizontally and vertically. Device plates shall be aligned vertically with tolerance of 1/16". All four edges of device plates shall be in contact with the wall surface.
- 3. Mounting height as indicated on the drawings and according to ADA requirements.
- 4. Install device plates on all outlet boxes. Provide blank plates for all empty, spare, and boxes for future use.
- 5. Securely fasten devices into boxes and attach appropriate cover plates.
- 6. Caulk around edges or outdoor device plates and boxes when rough wall surfaces prevent raintight seal. Use caulking materials approved by Architect. Fireproof around opening of devices located or penetrating fire rated construction assemblies.
- 7. Fireproof around opening of devices located or penetrating fire-rated construction assemblies.

B. Switches

- 1. Where switches are indicated to be installed near doors, corner walls, etc. mount not less than 2 inches and not more than 18" from trim. Verify exact location with Architect or Engineer prior to rough-in.
- 2. Coordinate the location of switches to insure locations at the strike side of doors.
- 3. Furnish and install engraved legend of each switch that controls exhaust fans, motors, equipment systems, etc. not located within sight of the controlling switch.

4. Ganging of Switches - provide barriers for switches of difference phases and voltages. Otherwise switches shall be gauged in one faceplate.
- C. Receptacles
 1. Mount receptacles vertically with U-shaped ground position on bottom.
 2. Do not combine GFCI protected circuits with other circuits in the same raceway. Limit number of GFI protect circuits in any one raceway to a maximum of one (1) circuit.
- D. Identification
 1. Label all outlets and switches. Mark each wiring device where circuits and panel supply is derived from.
 2. All identification shall be legible and readable after completion of installation

1.08 INSTALLATION OF FUSES AND DISCONNECT SWITCHES

- A. Fuses shall be installed where noted on plans. Sizes are based on design data provided by equipment mfg. Listed or labeled equipment must be in accordance with instructions included in the listing or labeling. Be sure to observe maximum branch circuit fuse size labels.
- B. Disconnect switches shall be mounted on the equipment, where possible. Coordinate with mechanical contractor to ensure switches are not mounted on a removable access panel.
- C. Label each disconnect fuse with equipment tag as indicated in the single line diagram, or as directed.

1.09 ELECTRICAL EQUIPMENT GROUNDING

- A. Ground non-current carrying metal parts of electrical equipment enclosures, frames, conductor raceways or cable trays to provide a low impedance path for line-to-ground fault current and to bond all non-current carrying metal parts together. Install a ground conductor in each raceway system in addition to conductors shown. Equipment ground conductor shall be electrically and mechanically continuous from the electrical circuit source to the equipment to be grounded. Size ground conductors per NEC 250 unless larger conductors are shown on the drawings.
- B. Grounding conductors shall be identified with green insulation, except where a bare ground conductor is specified. Where green insulation is not available, on larger sizes, black insulation shall be used and suitably identified with green tape at each junction box or device enclosure.
- C. Install metal raceway couplings, fittings and terminations secure and tight to insure good ground continuity. Provide insulated grounding bushing and bonding jumper where metal raceway is not directly attached to equipment metal enclosure and at concentric knock-outs.
- D. Motors shall be connected to equipment ground conductors with a conduit grounding bushing and with a bolted solderless lug connection on the metal frame.
- E. Conduit terminating in concentric knockouts at panelboards, cabinets and gutters shall have insulated grounding bushings and bonding jumpers installed interconnecting all such conduits and the panelboard cabinet, gutter, etc.
- F. Performance:
 1. Measure the resistance to ground of each ground rod before connection to the other ground rods. The resistance shall not exceed 25 ohms.
 - a. A single electrode which does not have a resistance to ground of 25 ohms or less shall be augmented by additional electrode(s).
 2. Measure the resistance to ground of the total ground system with all connections completed. The resistance shall not exceed 2 ohms for primary services or 5 ohms for secondary services.

3. Tests of the resistance to ground shall be made using either the three point method or the fall-of-potential method.
4. Perform a continuity check from equipment ground bus bars and ground lugs to the ground system.

2.10 BONDING

- A. Bonding shall be provided to assure electrical continuity and the capacity to conduct safely any fault current likely to be imposed.
- B. Bonding shall be in accordance with NEC Article 250, Part V.

2.11 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

END OF SECTION

90 CONCRETE

90-1.01 GENERAL

90-1.04 PAYMENT

The contract unit price paid by cubic yard for Structural Concrete includes furnishing and installation of materials, formwork, curing compounds, miscellaneous metal inserts, and disposal of excess material out of the County Right of Way.

The quantity provided in the contract bid schedule is an estimate and does not reflect the final quantity of Structural Concrete. The contract unit price paid per cubic yard for Structural Concrete includes the finalization of the quantity.

92 ASPHALT BINDERS

92-1.01 GENERAL

92-1.01A Summary

Paint binder (tack coat) shall be applied to existing surfaces to be surfaced and between layers of asphalt concrete, except when eliminated by the Engineer.

Full compensation for applying paint binder (tack coat) shall be considered as included in the contract unit price paid for per ton of HMA and no additional compensation will be allowed therefore.

96-1.04 PAYMENT

Full compensation for cleaning pavement immediately in advance of placing binder, pavement reinforcing fabric, and asphalt concrete surfacing shall be considered as included in the contract price paid per square yard for pavement reinforcing fabric and no separate payment will be made.

Full compensation for paving asphalt binder shall be included in the contract price paid per square yard for Pavement Reinforcing Fabric and no separate payment will be made.

99 BUILDING CONSTRUCTION

96-1.01 GENERAL

96-1.01A Summary

Section 99 includes specifications for pre-fabricated commercial quality steel shop building complete and in place on the Concrete slab foundation, including fabrication, trucking, installation, and attachment to the foundation. The manufactured building is shown in the plans, and must be transported to the Rio Vista Corporation Yard, 904 St. Francis Way, Rio Vista, CA 94571.

The Contractor is required to submit three building plans to the Solano County Building Department including the demo plan, and two building plans for the storage building and new prefabricated metal building.

96-1.01B SUBMITTALS

Submit for review, manufacturer's drawings, catalog cuts, and/or material lists to ensure compliance with the plans and specifications.

The prefabricated commercial shop building must meet all code requirements for the most recent California Building Code.

The prefabricated commercial shop building must be at a minimum 29-gauge steel panels.

The interior walls will be off white (beige) and color samples for the exterior walls and trim are required. Submit both the exterior colors and interior colors before installation.

96-1.02 PAYMENT

The contract unit price paid per lump sum price for Plumbing System includes all work to install the various components including water closet, lavatory, sinks, hose bibb, water heater, oil separator, cleanouts, drains, fittings, connections, water and sewer lines inside the Rio Vista structure and 2' beyond included in the project plans. The various plumbing components are to be installed per the applicable codes and building standards below.

The contract unit price paid per lump sum price for Mechanical System includes all work to install the various components including exhaust fans and louver inside the Rio Vista structure. The various mechanical components are to be installed per the applicable codes and building standards below.

The contract unit price paid per square feet for Furnish Prefabricated Metal Structure includes full compensations for providing the manufacture structural calculations, anchor bolt details, delivery, and furnishing structure in accordance to this Special Provisions and the following Section 96-1.03 PRE-ENGINEERED BUILDINGS.

The contract unit price paid per square feet for Install Prefabricated Metal Structure includes full compensations for erecting the structure in the field, securing the structure to the foundation, and clean up.

The contract unit price per linear foot for Cable Bridge and Hangers includes full compensation for furnishing material, excavation, backfill, installation of the components, wire attachment, and clean up as shown in the plans and Special Provisions.

The contract unit price per lump sum for Install Prefabricated Shelter includes erecting the structure in the field, securing the shelter on the foundation, and clean up as shown in the plans and Special Provisions.

96-1.03 PRE-ENGINEERED BUILDINGS

1.00 SECTION INCLUDES

- A. Pre-engineered, shop-fabricated structural steel building frame.
- B. Metal wall and roof panels including gutters and downspouts.
- C. Exterior doors

1.01 REFERENCE STANDARDS

- A. 2022 California Building Code, Title 24, Parts 1 & 2 with July 2024 Supplement
- B. AISC 360 - Specification for Structural Steel Buildings; American Institute of Steel Construction, Inc.; 2016.
- C. ASTM A 153/A 153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2016.
- D. ASTM A 500 - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2003a.
- E. ASTM A 501 - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing; 2021
- F. ASTM A 529/A 529M - Standard Specification for High-Strength Carbon-Manganese Steel of Structural Quality; 2019.
- G. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2017.
- H. ASTM A 992/A 992M - Standard Specification for Structural Steel Shapes; 2017.
- I. ASTM C 1107/C 1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink); 2020.
- J. ASTM F 3125/F 3125M - Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi and 150 ksi Minimum Tensile Strength; 2023.
- K. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; American Welding Society; 2020.
- L. AWS D1.1/D1.1M - Structural Welding Code - Steel; American Welding Society; 2015.
- M. SSPC-Paint 20 - Zinc-Rich Primers (Type I, "Inorganic," and Type II, "Organic"); Society for Protective Coatings; 2019 (Ed. 2004).

- N. UL 580 - Standard for Tests for Uplift Resistance of Roof Assemblies; Underwriters Laboratories Inc.; 2024.

1.04 BUY AMERICAN REQUIREMENTS

- A. Iron & Steel Requirements:
 - 1. All iron and steel used in the pre-engineered building to be produced in the United States. All iron and steel manufacturing processes must take place in the United States, except for metallurgical processes involving refinement of steel additives. No unauthorized use of foreign iron or steel will be allowed in the pre-engineered building.
 - 2. Includes all steel used in building structure and envelope.

1.05 DESIGN REQUIREMENTS

- A. Design structural members to withstand live loads due to pressure and suction of wind; max. wind speed of 100 mph
- B. Design structural members to withstand live loads due to seismic ground motion. Site Class D (default value), $S_s = 0.435$; $S_1 = 0.212$; $S_d = 0.421$; 1. Seismic criteria is based on USGS data.
- C. Collateral loads: n/a
- D. Design structural members to withstand live loads due to snow loads. Snow loads per 2022 California Building Code
- E. Risk Category (CBC Table 1604.5): By Structural Engineer of Record
- F. Design members to withstand positive and negative wind pressures per code requirements.
- G. Exterior wall and roof system must withstand imposed loads with maximum allowable deflection as indicated in 2022 California Building Code Table 1604.3 footnote "a."
- H. Permit movement of components without buckling, failure of joint seals, undue stress on fasteners or other detrimental effects, when subject to temperature range of 100 degrees F.
- I. Size and fabricate wall and roof systems free of distortion or defects detrimental to appearance or performance.

SUBMITTALS

- J. Product Data: Provide data on profiles, component dimensions, fasteners.
- K. Shop Drawings: Indicate assembly dimensions, locations of structural members, connections; wall and roof system dimensions, panel layout, general construction details, anchorages and method of anchorage, installation; framing anchor bolt settings, sizes, and locations from datum, foundation loads including all load cases and maximum load combinations in both ASD and LRFD; indicate welded connections with AWS A2.4 welding symbols; indicate net weld lengths; provide professional seal and signature; show provisions for attaching roof mounted items including curbs, MEP distribution systems, roof hatches, penetrations, and lighting fixtures; show provisions for attaching to walls including personnel doors, windows, louvers, lighting fixtures, and MEP equipment and distribution systems.
- L. Samples: Submit two samples of precoated metal panels for each color selected, illustrating color and texture of finish.

- M. Erection Drawings: Indicate members by label, assembly sequence, and temporary erection bracing.
- N. For permit drawings and calculations must be signed and sealed by a California licensed Professional Engineer.

1.06 QUALITY ASSURANCE

- A. Design structural components, develop shop drawings, and perform shop and site work under direct supervision of a Professional Engineer experienced in design of this Work.
 - 1. Design Engineer Qualifications: Licensed in California.
 - 2. Conform to applicable code for submission of design calculations as required for acquiring permits.
 - 3. Cooperate with regulatory agency or authority and provide data as requested.
- B. Perform work in accordance with AISC 360 - Specification for Structural Steel Buildings.
 - 1. Maintain one copy on site.
- C. Perform welding either in accordance with AWS D1.1 or subject to the quality program of ICC- IAS approved fabricators.
- D. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.
- E. Erector Qualifications: Company specializing in performing the work of this section with minimum 3 years' experience.

1.07 PRE-INSTALLATION MEETING

- A. Prior to erection of the structure, convene conference to include erection contractor, general contractor, owner's representative (or authorized agent) and architect/engineer of record.

1.08 WARRANTY

- A. Correct defective Work within a five-year period after Date of Substantial Completion.
- B. Provide 35-year Manufacturer warranty for premium coatings on wall and roof panels, including Galvalume (AD5):
 - 1. Include coverage for exterior pre-finished surfaces to cover pre-finished color coat against chipping, cracking or crazing, blistering, peeling, chalking, or fading.

PART 2 PRODUCTS

2.02 MANUFACTURERS

- A. Pre-Engineered Building
 - 1. Empire Steel Buildings; website: www.empirebuilt.com
 - 2. Butler Building Systems; website: www.metalbuildingsales.com
 - 3. MBMI Metal Buildings; website: www.mbmisteelbuildings.com
 - 4. Varco Pruden Buildings; website: www.varcopruden.com

2.03 PRE-ENGINEERED BUILDING

- A. Single-span, single slope (shed type) building cross-section (not a gable roof section).
- B. Bay Spacing: Per drawings.
- C. Primary Framing: Rigid frame of rafter beams and columns, canopy beams and braced end frames, and wind or seismic bracing.
- D. Secondary Framing: Purlins, Girts, Flange bracing, Sill supports, and Clips, and other items as needed or detailed.
- E. Wall System: Preformed metal panels of vertical profile, with sub-girt framing/ anchorage assembly and accessory components.
- F. Roof System: Preformed metal panels oriented parallel to slope, with sub-girt framing/anchorage assembly and accessory components. Fastened with exposed fasteners; provide gasketed, galvanized screw type.
- G. Roof Slope: 2:12 roof slope (concept level design estimate)

2.04 STRUCTURAL FRAMING

- A. General
 - 1. All framing members shall be cleaned to remove loose rust and mill scale in compliance with SSPC-SP3, and given one shop coat of primer. Primer shall be formulated to equal or exceed performance, under laboratory conditions, requirements of U.S. Federal Specification TTP-636. The primer coat thickness shall be a minimum of one mil. At Manufacturer's option, secondary structural framing may be cold-formed using prepainted coil stock which eliminates the need for a shop coat of primer. In which case base metal shall be thoroughly cleaned then treated with iron phosphate solution to enhance paint adherence before coil is coated with a red oxide polyester paint. Paint dry film thickness shall be a minimum 0.5 mil on both sides.
 - 2. All references in the Product Manual to ASTM A-570 and ASTM A-607 should be regarded as references to ASTM A-1011-SS and ASTM A-1011-HSLAS respectively.
- B. Primary Members
 - 1. Primary structural framing shall refer to the Primary Frames (transverse rigid frames) End Frames (rafters/corner posts/end posts).and Wind/Seismic Bracing.
 - a. Sheet, plate, strip mill plate, plate coils and flat bar stock used to fabricate welded-up, structural members shall conform to one of the following ASTM specifications as appropriate: ASTM A-572, Grade 50; ASTM A-529, Grade50; ASTM A-1011-HSLAS, Grade 50 Class 1.
 - b. Members fabricated from W shapes (hot-rolled structural sections) will conform to one of the following ASTM specifications: ASTM A-529, Gr. 50; ASTM A-572, Grade 50 or ASTM A-992, Grade 50.
 - c. Members fabricated from other hot-rolled structural sections (S shapes, American Standard channels, angles, rods for anchor bolts, and all other miscellaneous structural shapes) shall conform to ASTM A-529, Grade 50 or ASTM A-572, Grade 50.
 - d. Rods used for bracing will conform to the physical specifications of ASTM A529, Gr. 50.
 - e. Cables used for bracing shall be zinc coated steel wire (7 strands), in conformance with ASTM A-475 EHS, Class A.
 - f. Members fabricated by cold forming process shall conform to ASTM specification ASTM A-1011, Grade 50 or ASTM A-1011-HSLAS, Grade 50, Class 1.
- C. Secondary Member

1. Secondary structural framing shall refer to purlins, girts, eave struts, base members, flange bracing, gable angles, clips and other miscellaneous structural parts.
 - a. Purlins, girts, base members and gable angles shall be cold-formed from steel conforming to ASTM specification A-1011, SS, Grade 50 or ASTM A-1011-HSLAS, Grade 50, Class 1.
 - 1) Purlins are roll formed "Z" sections, in standard sizes 8" to 12" deep, as required by calculations. Each flange of these "Z"s has a stiffening lip formed at 50° to the flange.
 - 2) Girts are either roll formed "Z" sections, 8" or 10" deep, or roll formed "C" sections, 8" deep. Each flange of these members has a stiffening lip formed at 50° to the flange on "Z"s and at 90° on "C"s.
 - b. All other miscellaneous secondary members shall have a minimum yield strength of 36,000 psi.
- D. Connections
 1. All field connections shall be bolted (unless otherwise noted).
 - a. All primary bolted connections, as shown on drawings, shall be furnished with high strength bolts conforming to ASTM specification ASTM A-325.
 - b. All secondary bolted connections, as shown on drawings, will be furnished with machine bolts conforming to ASTM specification ASTM A-307 unless ASTM A-325 bolts are required by design.
 - c. The standard A307 and A325 bolts shall be uncoated.
 - d. All connections using machine bolts in conformance with ASTM A-307 shall use nuts conforming to ASTM specification ASTM A-563 Grade A Hex. Connections using high strength bolts in conformance with ASTM A-325 shall use nuts in conformance with ASTM specification ASTM A-563 Grade C Heavy Hex.
 - e. All cast iron slope washers shall conform to ASTM specification A-48 Class 30 B.
 - f. Hardened Steel Washers shall be in conformance with ASTM specification ASTM F- 436, Type 1 carbon steel.
 2. All shop welding shall be by either the submerged arc, gas metal arc, or shielded arc process. Groove joint welds shall develop the full strength of the members connected. Perform welding either in accordance with AWS D1.1 or subject to the quality program of ICC-IAS approved fabricators.

2.05 MATERIALS – FRAMING

- A. Structural Steel Members: ASTM A 992/A 992M.
- B. Structural Tubing: ASTM A 500, Grade B or C.
- C. Plate or Bar Stock: ASTM A 529/A 529M, Grade 50.
- D. Anchor Rods: ASTM F 1554, galvanized to ASTM A 153/A 153M.
- E. Bolts, Nuts, and Washers: ASTM A 325 (ASTM A 325M), Type 1, galvanized to ASTM A 153/A 153M, Class C.
- F. Welding Materials: Type required for materials being welded.
- G. Primer: SSPC-Paint 20, zinc rich.
- H. Grout: ASTM C 1107/C 1107M, Non-shrink type, premixed compound consisting of non- metallic aggregate, cement, water reducing and plasticizing agents, capable of developing minimum compressive strength of 2400 psi in two days and 7000 psi in 28 days.

2.06 MATERIALS - WALLS AND ROOF

- A. Steel Sheet: Hot-dipped galvanized steel sheet, ASTM A 653/A 653M, SS Grade 33/230, with G90/Z275 coating.
- B. Panel Materials: See 2.08 Fabrication – Wall and Roof Panels.
- C. Joint Seal Gaskets: Manufacturer's standard type.
- D. Fasteners: Manufacturer's standard type, galvanized to comply with requirements of ASTM A 153/A 153M, finish to match adjacent surfaces when exterior exposed.
 - 1. Roof fasteners: galvanized screw type with neoprene washers.
- E. not used
- F. Sealant: Manufacturer's standard type.
- G. Metal Mesh: Galvanized steel wire, woven.
- H. Trim, Closure Pieces, Caps, Flashings, Rainwater Diverter: Same material, thickness and finish as exterior sheets; brake formed to required profiles.
- I. Building insulation. Not used.

2.07 COMPONENTS

- A. Framed Openings for Personnel Doors
 - 1. Personnel (walk) door frames shall be non-handed (reversible) frames, with a 2-inch wide face, 16-gauge, G-60 galvanized steel with square cut, butted corners. Jambs and header are of knock-down type for field assembly through bolted connections. Door frame shall be an open "C" section sized to "wrap-around" end of 8" minimum depth girts.
 - 2. Sheet metal trim shall be furnished with all doors to flash around door frame and provide a finished appearance.
 - 3. Doors: 1 3/4" thick, 24-gauge min. sheet metal facers, insulated.

2.08 FABRICATION - FRAMING

- A. Fabricate members in accordance with AISC Specification for plate, bar, tube, or rolled structural shapes.

2.09 FABRICATION - WALL AND ROOF PANELS

- A. Ribbed Wall Panels shall be as follows:
 - 1. Basis of Design: HR-16 Wall Panel by Berridge Manufacturing. Pattern: 7/8" height and 4" rib with 2" reveal. Each panel shall provide 16 inches of lateral coverage. Minimum 24-gauge metal thickness with lapped edges fitted with continuous gaskets. Panel shall be coated with Manufacturer's Premium Polyester Coating. Architect to select color from charts for Standard and Premium paint colors available.
- B. Ribbed Roof Panels shall be as follows:
 - 2. "PBR" profile with 1 1/4" deep major ribs which taper in width, and are spaced 12" on center. Between each major rib are two minor stiffening ribs. The "leading edge" rib has a bearing leg. Each panel shall provide 36" of lateral coverage. Minimum 22-gauge metal thickness with lapped edges fitted with continuous gaskets. Panel shall be coated with Galvalume (AD5). Architect to select color from charts for Standard and Premium paint colors available.

3. Roof panels shall be a minimum 22 gauge. Actual gauge to be determined by calculations.
- C. Liner: Minimum 1/16-inch metal thickness, flat profile indicated, lapped V edges fitted with continuous gaskets.
- D. Girts/Purlins: Rolled formed structural shape to receive siding, roofing and liner sheet.
- E. Internal and External Corners: Same material thickness and finish as adjacent material, profile brake formed to required angles. Back brace mitered internal corners with 1/8-inch-thick sheet.
- F. Flashings, Closure Pieces, Fascia: Same material and finish as adjacent material, profile to suit system.
- G. Fasteners: To maintain load requirements and weather tight installation, same finish as cladding, non-corrosive type. Roof fasteners: long life type with neoprene washers.

2.10 FABRICATION - GUTTERS AND DOWNSPOUTS

- A. Fabricate gutter of same material and finish as roofing metal. Downspout to be three (3) inch welded pipe and painted.
- B. Form gutters of square profile and size indicated to collect and remove water. Fabricate with connection pieces.
- C. Form sections in maximum possible lengths. Hem exposed edges. Allow for expansion at joints.
- D. Fabricate support straps of same material and finish as roofing metal, color as selected.

2.10 FINISHES

- A. Framing Members: Clean, prepare, and shop prime. Do not prime surfaces to be field welded.
- B. Wall panels shall be coated with polyester paint on the exterior side, color to be selected, with standard base white finish on interior side. Architect to select color from charts for Standard and Premium paint colors available. Surfaces shall be properly prepared and primed before application. Polyester coating system shall have a dry film thickness of .75 -.90 mils on the exterior surface. Specular Gloss at 60° viewing angle shall be 35± 5%. The interior side of these panels shall be protected by a back coat system of .60 ± .05 mils thickness. Panels shall be coated prior to roll forming.
- C. Roof panels shall be coated with Manufacturer's Premium Kynar 500 Fluoropolymer Coating. Architect to select color from charts for Standard and Premium paint colors available. Surfaces shall be properly prepared and primed, then coated and oven-baked to cure. Top coating system shall have a dry film thickness of .75 -.90 mils on the exterior surface. Specular Gloss at 60° viewing angle shall be 35± 5%. The interior side of these panels shall be protected by a back coat system of .60 ± .05 mils thickness. Panels shall be coated prior to roll forming.
- D. Paint all metal building framing and components with TNEMEC Polyurethane Paint. Shop or field applied at Contractor's option. Architect to select color from charts for Standard and Premium paint colors available. Assure primer compatibility with finish paint. Paint as follows:
 1. Surface Preparation: SSPC-SP36 Commercial Blast Clean.
 2. Prime: Shop or Field Prime TNEMEC Series 90-97; 2.5 to 3.5 Mils DFT.

3. Intermediate: Shop or Field Intermediate Finish: Hi-Build Epoxyline II Series V69-Color. 4.0 to 6.0 Mils DFT.
4. Field Finish: Enduratone Series 1029 Semi-Gloss; 2.0 to 3.0 Mils DFT.
5. Total DFT: 8.5 to 12.5 Mils DFT
6. The Contractor may use hot dip galvanized primary members and use cold formed pre-galvanized secondary members in lieu of TNEMEC polyurethane coating. A substitution request from the Contractor is required and the County Engineer retains the right to approve or reject the request.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that foundation, vapor barrier, plumbing, floor slab, mechanical and electrical utilities, and placed anchors are in correct position

3.02 ERECTION - FRAMING

- A. Erect framing in accordance with AISC 360 - Specification for Structural Steel Buildings.
- B. Provide for erection and wind loads. Provide temporary bracing to maintain structure plumb and in alignment until completion of erection and installation of permanent bracing. Locate braced bays as indicated.
- C. Set column base plates with non-shrink grout to achieve full plate bearing.
- D. Do not field cut or alter structural members without approval.
- E. After erection, prime welds, abrasions, and surfaces not shop primed.

3.03 ERECTION - WALL AND ROOF PANELS

- A. Install in accordance with manufacturer's instructions.
- B. Exercise care when cutting prefinished material to ensure cuttings do not remain on finish surface.
- C. Fasten cladding system to structural supports, aligned level and plumb.
- D. Locate end laps over supports. End laps minimum 2 inches. Place side laps over bearing.
- E. Provide expansion joints where indicated.
- F. Install sealant and gaskets to prevent weather penetration.

3.04 ERECTION - TRANSLUCENT ROOF PANELS

- A. Install in accordance with manufacturer's instructions.
- B. Coordinate with installation of roofing system and related flashings.
- C. Provide weather tight installation.

3.05 INSTALLATION - ACCESSORIES

- A. Seal wall and roof accessories watertight and weather tight with sealant.

3.06 TOLERANCES

- A. Framing Members: 1/4 inch from level; 1/8 inch from plumb unless noted otherwise.
- B. Siding and Roofing: 1/8 inch from true position

APPENDIX A
ASSUMED EXPOSURES FOR CONSTRUCTION TASKS*

50 $\mu\text{g}/\text{m}^3$ to 500 $\mu\text{g}/\text{m}^3$	500 $\mu\text{g}/\text{m}^3$ to 2500 $\mu\text{g}/\text{m}^3$	Greater than 2500 $\mu\text{g}/\text{m}^3$
<ul style="list-style-type: none"> • Manual demolition • Manual scraping • Manual sanding • Heat gun use • Power tool paint removal in the HEPA vacuum-assist dust collection system 	<ul style="list-style-type: none"> • Clean up dry, on abrasive blasting jobs • Abrasive blasting enclosure movement/removal 	<ul style="list-style-type: none"> • Abrasive blasting

*Title 8 CCR, Section 1532.1

APPENDIX B
RESPIRATORY PROTECTION FOR LEAD AEROSOLS

Airborne Concentration of Lead or Condition of Use	Required Respirator
Not in excess of 500 $\mu\text{g}/\text{m}^3$	<ul style="list-style-type: none"> • $\frac{1}{2}$ mask air purifying respirator with high efficiency filters • $\frac{1}{2}$ mask supplied air respirator operated in demand (negative pressure) mode
Not in excess of 1250 $\mu\text{g}/\text{m}^3$	<ul style="list-style-type: none"> • Loose fitting hood or helmet powered air purifying respirator with high efficiency filters • Hood or helmet supplied air respirator operated in a continuous- flow mode, e.g., type CE abrasive blasting respirator operated in a continuous-flow mode
Not in excess of 2500 $\mu\text{g}/\text{m}^3$	<ul style="list-style-type: none"> • Full facepiece air purifying respirator with high efficiency filters • Tight fitting powered air purifying respirator with high efficiency filters • Full facepiece supplied air respirator operated in a continuous- flow mode • $\frac{1}{2}$ mask of full facepiece supplied air respirator operated in demand mode • Full facepiece self-contained breathing apparatus (SCBA) operated in demand mode
Not in excess of 50,000 $\mu\text{g}/\text{m}^3$	<ul style="list-style-type: none"> • $\frac{1}{2}$ mask supplied air respirator operated in pressure demand or other positive-pressure mode
Not in excess of 100,000 $\mu\text{g}/\text{m}^3$	<ul style="list-style-type: none"> • Full facepiece supplied air respirator operated in pressure demand or other positive-pressure mode, e.g., type CE abrasive blasting respirators operated in a positive-pressure mode
Greater than 100,000 $\mu\text{g}/\text{m}^3$ unknown concentration, or fire fighting	<ul style="list-style-type: none"> • Full facepiece SCBA operated in pressure demand or other positive-pressure mode

APPENDIX C

EXPOSURE CONTROL STRATEGY DURING RENOVATION/PAINTING/SANDING OPERATIONS OF SURFACES CONTAINING 600 PPM LEAD OR GREATER**1.00 GENERAL**

Contractor shall take measures to prevent contamination of indoor surfaces, the environment, and personnel.

2.00 REQUIREMENTS

- 2.01 Cal/OSHA regulates lead exposure and has assigned a Permissible Exposure Limit of 50 micrograms per cubic meter. At a minimum contractor will follow the *Lead in Construction* safety orders as specified under Cal/OSHA regulation Title 8, Section 1532.1.
- 2.02 The building shall remain unoccupied during renovation activities. The area shall be secured with barrier tapes to prevent unauthorized personnel from entering the work areas.
- 2.03 All HVAC systems must be turned off prior to commencement of sanding activities. Cover the air vents with plastic after turning off the system.
- 2.04 Carpets and all furniture should be removed prior to sanding activities.
- 2.05 Only vacuum cleaners equipped with HEPA filters should be used to clean-up interior dusts.
- 2.06 A layer of 6-mil polyethylene sheeting shall be laid over the entire floor.
- 2.07 All windows should be kept closed to prevent dust and chips from leaving the area.
- 2.08 Dry sanding is not allowed.

- 2.10 Wet Scraping**
- 2.11 A scraper attached to a HEPA vacuum is recommended for the scraping process.
- 2.12 Wet scraping can also be done by misting the surface with water to minimize dust generation. A scraper can be used to remove loose chips of paint.
- 2.13 Use a damp rag to collect large chips that fall on to the 6-mil plastic floor containment.
- 2.14 HEPA vacuum paint dusts on the plastic sheeting.

- 2.20 Wet Sanding**
- 2.21 Traditional orbiting sanding devices may be used only in conjunction with a HEPA vacuum filter attachment.
- 2.22 Wood, metal, and painted surfaces that require a fine cosmetic finish may be sanded using wet/dry sandpaper and water or an oil paint solvent.
- 2.23 Relatively rough surfaces may be finished using wet foam sanding blocks created by dipping a sponge in an aluminum oxide grit. These sponge sanders are ideally suited for wet sanding and can be easily cleaned by immersing in a bucket of 5 -6% trisodium phosphate (TSP).

- 2.30 Surface Cleaning**
- 2.31 HEPA vacuum all surfaces (sanded walls, windows, and floors); follow by surface wipe cleaning with a 5-6% TSP solution and rinse with water. A two-bucket system should be used: one for the cleaning solution and the other for rinsing using a new sponge. Change the wash water at least once in each room.

- 2.32 Begin at the top of each room and work down.
 - 2.34 When vacuuming, use a crevice and brush tool where appropriate.
 - 2.35 HEPA vacuum the polyethylene sheeting prior to removal.
 - 2.36 Remove and dispose of HEPA vacuum cleaner bags outside of the building.
 - 2.37 Repaint surfaces with paint free of lead, mercury, and other heavy metals.
 - 2.38 Contact EHS for final clearance. Surface wipe samples of floors and windows will be collected to ensure surfaces do not have excessive lead residues. Clearance levels set by EPA/Housing and Urban Development Guidelines will be followed.
-
- 2.40 Waste Disposal**
 - 2.41 All HEPA filters must be disposed of as required by EHS Hazardous Waste Department.
 - 2.42 The contractor must obtain prior approval from EHS Hazardous Waste Department on any proposed TSDF.

APPENDIX D

**EXPOSURE CONTROL STRATEGY DURING DEMOLITION/SANDING/PAINTING of
SURFACES CONTAINING LESS THAN 600 PPM LEAD**

1.02 GENERAL

Contractor shall take measures to prevent contamination of indoor surfaces, the environment, and personnel. All painted surfaces contain lead.

2.00 REQUIREMENTS

- 2.01 Cal/OSHA regulates lead exposure and has assigned a Permissible Exposure Limit of 50 micrograms per cubic meter. At a minimum contractor will follow the *Lead in Construction* Safety Orders as specified under Cal/OSHA regulation Title 8, Section 1532.1.
- 2.02 At a minimum, the area under renovation shall remain unoccupied during renovation activities. The area shall be secured with barrier tapes to prevent unauthorized personnel from entering the work areas.
- 2.03 All HVAC systems must be turned off prior to commencement of sanding activities or demolition activities. Install critical barriers by covering the air vents and door openings with plastic after turning off the HVAC system.
- 2.04 Building surfaces to be demolished should be wetted down with water to minimize the dispersal of paint dust. Surfaces should be substantially wet so that there is no visible dust dispersed in the air.
- 2.05 EHS must be contacted for perimeter air monitoring

APPENDIX E
GUIDANCE ON WASTE MANAGEMENT FOR LEAD ABATEMENT
ACTIVITIES

Wastes generated from lead abatement, or any of the activities listed above, may be regulated by the Department of Toxic Substances Control (Department) because they contain lead, a toxic substance. Wastes from the use of chemical paint strippers may also be corrosive. A corrosive waste has a pH ≤ 2.0 or ≥ 12.5 , or it corrodes steel at a rate greater than 6.35 mm per year.¹

In California, there are two regulatory levels for wastes contaminated with lead, the Total Threshold Limit Concentration (TTLC) and the Soluble Threshold Limit Concentration (STLC). The regulatory limits for lead are 1000 mg/kg and 5.0 mg/L, respectively.² In addition, federal law (Resource Conservation and Recovery Act or RCRA) regulates lead by establishing a maximum concentration of 5 mg/L. Although this level is the same as California's STLC, federal law specifies a different testing procedure.³

Some wastes that may be generated by lead removal and clean-up activities include paint chips, dust, chemical stripper sludge, wastewater, rags, sponges, filters, and large debris such as doors, casements, jams, and moldings. EHS recommends that lead paint wastes be segregated into the following categories to aid in classifying the wastes as hazardous or nonhazardous. Depending on the quantities of wastes generated, it may be economical to dispose of all wastes in category A as hazardous without testing. According to U.S. EPA tests,⁴ wastes in category B are less likely to be hazardous wastes, and thus they should be tested for proper classification. Solid components coated with intact, unpeeling paint may test as hazardous if the paint has a high lead content; plastic sheeting may test as hazardous if a heat gun was used to remove paint.⁵ Segregating Category A wastes from Category B wastes may result in a reduction in the volume of hazardous waste generated.

Table 1

CATEGORY A: WASTE USUALLY FOUND TO BE HAZARDOUS

Paint chips and dust from vacuum debris and dust Waste wash water
Sludge from chemical stripping
Rags, sponges, mops, HEPA filters, scrapers, and other materials used for testing,
abatement and clean-up

¹ Cal. Code Regs., tit. 22, § 66261.22.

² Cal. Code Regs., tit. 22, § 66261.24(a)(2) and Table II.

³ See Cal. Code Regs., tit. 22, § 66261.24(a)(1) and Table I.

⁴ U.S. Environmental Protection Agency. (1993) *Applicability of RCRA Disposal Requirements to Lead-Based Paint Abatement Wastes*. Retrieved from

<https://nepis.epa.gov/Exe/ZyNET.exe/20001KB9.txt?ZyActionD=ZyDocument&Client=EPA&Index=1991%20Thru%201994&Docs=&Query=&Time=&EndTime=&SearchMethod=1&TocRestrict=n&Toc=&TocEntry=&QField=&QFieldYear=&QFieldMonth=&QFieldDay=&UseQField=&IntQFieldOp=0&ExtQFieldOp=0&XmlQuery=&File=D%3A%5CZYFILES%5CINDEX%20DATA%5C91THRU94%5CTXT%5C00000007%5C20001KB9.txt&User=ANONYMOUS&Password=anonymous&SortMethod=h%7C-&MaximumDocuments=1&FuzzyDegree=0&ImageQuality=r75p8/r75p8/x150v150p16/i425&Display=hpfr&DefSeekPage=&SearchBack=ZyActionL&Back=ZyActionS&BackDesc=Results%20page&MaximumPages=1&ZyEntry=1>.

⁵ *Ibid.*

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Table 2

CATEGORY B: WASTES THAT MAY BE HAZARDOUS

Disposable work clothing Respirator filters

Polyethylene (plastic) sheeting

Solid components coated with intact, unpeeling paint, such as doors, casements, molding, and jams

**Excerpt from California Environmental Protection Agency, Department of Toxic Substances Control*

RCRA Wastes

Lead wastes are RCRA wastes if, when tested by the Toxicity Characteristic Leaching Procedure (TCLP), the lead content equals or exceeds 5.0 mg/L.⁶ While this is the same regulatory level as California's STLC, the TCLP test extracts less lead from a sample than does California's test. The EPA hazardous waste number for lead is D008. D008 wastes are

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subject to Land Disposal Restrictions (LDR), and must meet the treatment standard of 5.0 mg/L or less extractable lead before disposal.⁷

California-only hazardous wastes

If the lead content of a sample of waste is less than 5.0 mg/L using the TCLP, but is greater than or equals the TTLC or STLC (applying the Waste Extraction Test, or WET), then the waste is a California-only hazardous waste, also known as a non- RCRA waste. The compliance date for these metal-containing solid wastes to be treated to the standards has been extended to January 1, 1996.⁸

Debris

Hazardous debris is defined as⁹:

- Solid discarded material exceeding a 60 mm (2.5 in) particle size intended for disposal;
- a manufactured object; or plant or animal matter; or natural geologic material. Debris does not include those materials for which there is a specific treatment standard (e.g., lead-acid batteries).

Hazardous debris, such as doors and moldings, is subject to LDR and must be treated prior to land disposal using extraction, destruction, or immobilization technologies, which are defined in Table 1 of 22 CCR § 66268.45. Hazardous debris that is treated using one of the specified extraction or destruction technologies of Table 1 and that no longer exhibits a characteristic of hazardous wastes after treatment is not a hazardous waste and need not be managed in a permitted hazardous waste landfill. Residuals from the treatment (e.g., lead paint) must be separated from the treated debris and managed as hazardous waste.¹⁰

⁶ See Cal. Code of Regs., tit. 22, § 66261.24(a)(1).

⁷ See Cal. Code of Regs., tit. 22, § 66268.40 Treatment Standards for Hazardous Waste.

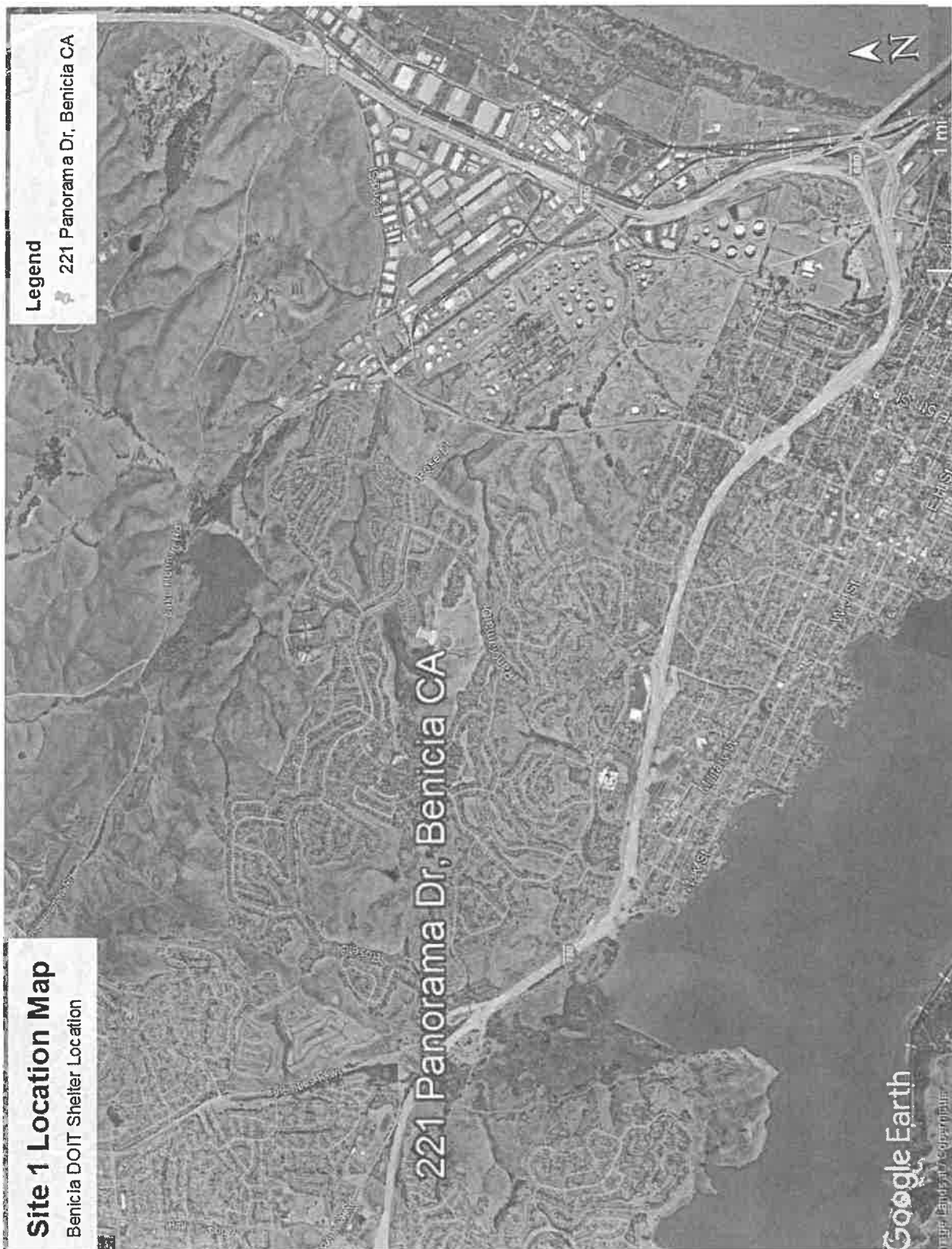
⁸ Cal. Health & Safety Code § 25179.6.

⁹ 40 C.F.R. § 268.2 (2006). Definitions applicable in this part.

¹⁰ Cal. Code of Regs., tit. 22, §§ 66268.7(d) & 66268.45.

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SITE 1 LOCATION MAP



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SITE 2 LOCATION MAP



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