

ADDENDUM No. 4

Date: March 26, 2008

Medical Warehouse Building, San Quentin State Prison

All project documents (Plans dated December 20, 2007; Project Manual dated December 27, 2007), including contract documents, drawings, specifications, all duly issued Addenda, and other documents shall remain unchanged with the exception of those elements added, revised, deleted, or clarified by this Addendum.

Clarifications, corrections, modifications, deletions, or additions included in this Addendum shall be incorporated in the project documents as noted. Data included herein supersedes previously issued data, otherwise the project documents shall remain unchanged.

Contractors are hereby notified that this Addendum shall be taken into consideration in submitting bids/proposals for the above project. Contractors are required to acknowledge receipt of the Addendum in the space provided in the Bid Proposal.

Contractors who would like to receive all or any part of this Addendum via email are requested to contact Lee Darby at lee.darby@vanir.com, (415) 419-5186 office, (415) 419-5187 fax.

ADDENDUM No. 4

Date: March 26, 2008

Medical Warehouse Building, San Quentin State Prison

Project Manual

BIDDING REQUIREMENTS

Document 00200 Instructions to Bidders

Revise section in its entirety.

*****See replacement pages 1 through 7, included in this Addendum.

Document 00303 Contractor Information/Qualification Form

Revise page 1, item 2, to include "as a design-builder, _____ years."

*****See replacement page 1, included in this Addendum.

CONTRACTING REQUIREMENTS

Document 00700 General Conditions

Revise page 2, paragraph 1.2 Definitions to read as follows:

Contract Documents--Including, but not limited to, **the completed and executed CPR Corp/Contractor Agreement (including all documents incorporated by reference therein, addenda and exhibits thereto), Design-Builder's proposal**, Contract Drawings, any documentation accompanying Contract Documents, Bonds, General Conditions, Supplementary Conditions, all Specifications, specific reference specifications, Notice to Proceed, and all modifications issued after the Notice to Proceed.

Revise page 37 to replace the project title New Personnel Building at San Quentin State Prison.

*****See replacement pages 2 and 37, included in this Addendum.

Document 00800 Supplementary Conditions

Replace this section in its entirety.

*****See replacement pages 1 through 5, included in this Addendum.

ADDENDUM No. 4

Date: March 26, 2008

Medical Warehouse Building, San Quentin State Prison

SPECIFICATIONS

Section 01010 Summary of Work

Revise paragraph 1.2 Project Description, sub-paragraph B, to read as follows:

Work Covered by Contract: The Work of this Contract **is design-build and** consists of furnishing all labor, materials, equipment, services and expertise necessary to **design and** construct the Work described in Contract Drawings and Specifications....**The foundation will be a structural slab supported by grade beams and piles.**

Add the following items to sub-paragraph B:

- 1. The building floor slab shall be supported by structural grade beams and piles. Minimum floor live load shall be 250 psf.**
- 2. Driven piles will not be allowed.**
- 3. The preliminary soils report provided with the bid documents is for information only. Contractor shall engage a qualified soils consultant to provide substantiating investigation, recommendations for all aspects of the earthwork, and foundation requirements for the project.**
 - a. If recommendations of the qualified soils consultant differ significantly from the preliminary soils report and result in additional scope costs to the Contractor, CPR Corp will compensate Contractor for additional scope of work for which CPR Corp approves in writing.**
 - b. As reflected herein and in the conceptual drawings made a part of the bid documents, CPR Corp assumes that a slab supported by structural grade beams and piles will provide the best structural design for the foundation, independent of the findings of Contractor's geotechnical investigations. Therefore, Contractor shall include the cost of this design in the proposal**

Add the following statement to paragraph 1.3 Use of Premises, sub-paragraph E.1.:

Contractor shall submit a site plan showing the locations of toilet facilities, hand washing stations, storage contains, connex boxes, construction office trailer, and any other structures that Contractor brings onto the project site, to CPR Corp Representative for approval by the State Fire Marshal.

*****See replacement pages 1 through 3, included in this Addendum.

ADDENDUM No. 4

Date: March 26, 2008

Medical Warehouse Building, San Quentin State Prison

Section 10670 Storage Shelving

Add this section in its entirety.

Section 10690 Pallet Racks

Add this section in its entirety.

Drawings

No Drawing changes are included in this Addendum.

Photographs and Additional Information

Photographs

N/A; no photographs are included in this Addendum.

Additional Information

N/A; no additional information is included in this Addendum.

INSTRUCTIONS TO BIDDERS

I. SECURING DOCUMENTS

Copies of the Contract Documents including drawings and specifications will be provided as specified in the Notice to Contractors.

II. EXAMINATION OF CONTRACT DOCUMENTS AND SITE OF WORK

- A. The terms "bid" and "proposal," as well as "Bid Form" and "Proposal," are used interchangeably throughout this and other Contract Documents.
- B. Before submitting a proposal, bidders shall examine the Contract Documents and fully inform themselves as to the total extent of the Work, shall visit the site of the Work, and shall examine all existing site conditions and use limitations. The Owner will make no allowance to any bidder because of lack of knowledge of existing conditions. The submission of the Proposal shall be conclusive evidence that each bidder has made a complete and thorough examination of the Contract Documents and of the site of the Work.
- C. The "Bid Documents" shall include the Notice to Contractors, Instructions to Bidders, Bid Proposal Form, Non-Collusion Declaration, List of Subcontractors, Bid Security, Contractor Qualification/Information Form, Contracting Requirements, Specifications, the Contract drawings and plans for the Project, and all duly issued Addenda.
 1. Information regarding cost and location to obtain the Bid Documents is found in the Notice to Contractors.
 2. Bidders shall use complete sets of Bid Documents in preparing the Proposal. Bidders are responsible for ascertaining that the Bid Documents, upon which their Proposals are based, are complete sets.
 3. Bid Documents are provided to bidders for bidding only. No other use is permitted.
 4. Should a bidder find discrepancies, ambiguities, inconsistencies, errors, or omissions in the Bid Documents and/or applicable federal, state, or local regulations or requirements, the bidder should at once notify the Construction Manager in writing. Bidder's questions shall be submitted no later than five (5) working days before the bid opening. The Construction Manager will consult with the Architect who is solely responsible for clarification and interpretation.
 5. The Construction Manager will forward written clarifications to all bidders in the form of addenda (faxed and/or mailed) for receipt by the plan holders no later than seventy-two (72) hours before the bid opening.

6. Prior to submitting a Proposal, each bidder shall ascertain that every addendum issued prior to the bid date has been considered and shall acknowledge receipt of each addendum on the Bid Form. Each addendum will become a part of the Agreement for construction.
7. Bids are sums stipulated in Proposals for which bidders propose to perform the Work.
8. Bidders are qualified contractors who submit Proposals to the Owner for work as design-builders on the Project.
9. Subcontractors are those who will perform work of labor or render service to the bidder.
10. Prior to bid time, the bidder shall notify the Construction Manager of any items that are obsolete or unavailable for use in the Project.
11. Base bids are sums stipulated in Proposals for which bidders offer to perform the Work, and from which alternate bids may be added or deleted.
12. Alternate bids are sums that may be added to or deleted from base bids for the performance of alternate Work, as delineated in the Bid Documents.
13. Unit prices are sums included in Proposals as bids per unit measure of materials and/or services, as required in the Bid Documents.
14. Proposals are complete, properly executed forms including base bids, alternate bids, unit prices, allowances, and other information requested by the Owner.
15. Soils and hazardous materials reports are available for review at the office of Vanir Construction Management, Inc. (916) 444-3700, if not included in the Project Manual.

III. PROPOSAL

- A. Bids shall be submitted upon the Bid Form provided therefor, properly executed and with all items filled in. No person, firm or corporation shall be allowed to file more than one Proposal for the Work of this project. The signatures of all persons signing shall be in longhand and executed by the principal duly authorized to make contracts. The bidder's legal name shall be fully stated.
- B. All blank spaces in the Proposal shall be properly filled in. Bidders shall observe in the Proposal that provisions are made for certain bid items and they shall be required to submit these bid items in full. The Proposal shall be submitted without interlineations, alterations, or erasures to the bid items or alternates listed therein. Any unauthorized

additions, limitations, conditions, or provisions attached to the Proposal will not be considered. Bids shall not contain any recapitulation of the Work to be done. No telegraphic or telephonic proposals or modifications of bid items will be considered. No bids received after the time for receiving them will be considered and if so received they will be returned to the bidders unopened.

- C. Each bid shall be addressed and delivered to Vanir Construction Management, Inc., Attention: Mani Subramanian, 980 Ninth Street, Suite 900, Sacramento, California 95814, on or before the day and hour set for the opening of bids in the Notice to Contractors. The bid must be enclosed in a sealed envelope bearing the title of the Work, the name of the bidder, and the date and hour of the opening. It is the sole responsibility of the bidder to see that his or her bid is received prior to the scheduled time for the opening of bids.

IV. BID SECURITY

- A. Each bid shall be accompanied by Bid Security on the form provided in the Bid Documents, duly executed by the bidder as principal and a corporation authorized to do business in the State of California as an admitted Surety, naming the California Prison Health Care Receivership Corporation as obligee; or a cashier's check drawn on a solvent bank of the State of California, in the amount of ten percent (10%) of amount bid and made payable to the California Prison Health Care Receivership Corporation.
- B. The Bid Security shall guarantee payment of actual damages in case the successful bidder fails to file satisfactory bonds as required by the Contract Documents or fails or refuses to enter into a Contract within the specified time. If the Owner does not accept the bid within ninety (90) days after the date set for the opening of bids or if the bidder to whom the Contract is awarded executes and delivers to the Owner the required Contract Documents, the Bid Security or the amount of the cashier's check will be returned to the bidder.
- C. Bid security for the two lowest responsive, responsible bidders will be returned to bidders within ten (10) days after construction Contracts have been signed. If the successful bidder withdraws his or her bid within the period specified therein for acceptance, or upon acceptance thereof by the Owner, and fails to enter into the Contract and provide bonds within the time specified after the forms are presented to him or her, the bidder shall be liable for any difference by which the cost of securing the supplies or services exceeds the amount of bid, and the bid security shall be available toward offsetting such difference.

V. BONDS REQUIRED BY THE CONTRACT DOCUMENTS

- A. Simultaneously with the execution of the Agreement, the successful bidder will be required to furnish a Performance Bond and a Payment Bond in an amount equal to one

hundred percent (100%) of the Contract Price, each secured from an admitted Surety satisfactory to the Owner.

- B. The Payment and Performance Bonds required by these specifications will neither be accepted nor approved by the Owner unless the bonds are underwritten by an admitted Surety and the requirements of California Code of Civil Procedure Section 995.630(a) and (b) are met and the bonds are accompanied by the County Clerk's certificate as provided for in California Code of Civil Procedure Section 995.640(b).

VI. ADDENDA

All addenda issued by the Architect shall become a part of the Contract. Any clarification, interpretation, or correction of the Contract Documents made prior to the bid date shall be made only by addenda. All bidders are responsible to obtain all copies of addenda issued by the Architect.

VII. WITHDRAWAL OF BID

- A. Any bidder may withdraw his or her bid either personally or by written request at any time prior to the scheduled time for the opening of bids.
- B. No bidder may withdraw his bid for a period of ninety (90) days after the bid opening. The bid shall be subject to acceptance by the Owner during this period.

VIII. BID PROTESTS

- A. Any bid protest(s) must be submitted in writing to the Construction Manager before 5 p.m. of the fifth day following the bid opening. The procedure and time limits set forth herein are mandatory and are the bidder's sole and exclusive remedy in the event of bid protest, and failure to comply with these procedures shall constitute a waiver of any right to further pursue the bid protest, including filing a Government Code Claim or legal proceedings.
- B. The initial protest document must contain a complete statement of the basis for the protest, and must refer to the specific portions of all documents that form the basis thereof. The protest must include the name, address, and telephone number of the person representing the protesting party. The protesting party must concurrently transmit a copy of the initial protest document and any attached documentation to all other parties with a direct financial interest that may be affected by the outcome of the protest. Such parties shall include all other bidders who appear to have a reasonable prospect of receiving an award, depending upon the outcome of the protest.
- C. The Owner will issue a decision regarding the protest. If the Owner determines that a protest is frivolous, the party originating the protest may be determined to be irresponsible and that party may be deemed ineligible for future contract award.

IX. AWARD OR REJECTION OF BIDS

- A. Promptly following the Bid Opening, Owner or Construction Manager will review the bids and select three (3) responsive, responsible bidders whose Project Manager and Project Superintendent should be available and prepared to be interviewed within 2-3 days after the Bid Opening. The three (3) selected bidders will be notified by telephone and facsimile of the date and time of the interviews. It is anticipated that each interview will not exceed thirty (30) minutes in length.
- B. Interviews will take place at the West Gate, accessible from Sir Francis Drake Blvd, for escort to the Vanir Construction Management office modular at San Quentin State Prison. Interviewees may park in the visitors parking outside the West Gate and enter onto the grounds of the San Quentin State Prison from the West Gate. Security clearances will be required, as outlined below.
- C. Security Clearance. All Bidders attention is directed to the deadline to contact Vanir Construction Management to receive security clearance for entry into San Quentin for the post-Bid Opening interviews. **No later than 3:00 pm, March 31, 2008**, provide (1) full name, (2) date of birth, (3) Identification Number or California Drivers License Number, and (4) Social Security Number; for security clearance into the institution. Fax or e-mail the form to Ms. Darby at 415-419-5187 or lee.darby@vanir.com. Bidders not providing the above information by the deadline stated, may not be permitted into the San Quentin State Prison for interview. **Blue clothing and jeans, cameras, and recording devices will not be allowed.**
- D. The Contract, if awarded, will be awarded based on a "best value" selection criteria determined exclusively by Owner, to the responsive, responsible bidder whose bid is received in compliance with these instructions and the Notice to Contractors inviting bids, provided his or her bid is responsive and it is in the interest of the Owner to accept it. The competence and the responsibility of bidders and of their proposed subcontractors will be considered in making the award of Contract. Any bidder before being awarded a Contract may be required to furnish evidence satisfactory to the Owner that he and his proposed subcontractors have sufficient means and experience in the type of work called for to assure completion of the Contract in satisfactory manner. The Owner reserves the right to reject the bid of any bidder who has previously failed to perform properly or to complete on time contracts with the Owner of a nature similar to this project. The Owner reserves the right to reject any or all bids or alternates and waive any informality in the bids or in the bidding.

X. COMMENCEMENT OF WORK

The Contractor shall be required to begin work within five (5) calendar days after the date on the Notice to Proceed, and complete the Work in accordance with the specifications hereto attached to the entire satisfaction of the Owner and completed according to project schedule

with due allowance being made for delays beyond the Contractor's control as outlined elsewhere.

XI. ANTI-DISCRIMINATION

The successful bidder shall not discriminate against any employee or applicant for employment because of race, creed, gender, color, or national origin. The contractor will comply with all provisions of Executive Order No. 10925 of March 6, 1961, as amended, and all rules, regulations and relevant orders of the President's Committee on Equal Employment Opportunity created thereby.

XII. COMPENSATION

A. Prevailing Wage: The Contractor and all its subcontractors shall pay all workers not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for the type of work performed and the locality in which the work is to be performed within the boundaries of the District. Prevailing wage rates are available from the Construction Manager or on the Internet at: <http://www.dir.ca.gov>. If the Project is funded at least in part with State bond funds, the District and/or its designee will be operating a labor compliance program on this Project pursuant to Labor Code section 1771.7.

B. Workers' Compensation: Each Contractor to whom a public works contract is awarded certifies, in the act of executing the Agreement, that he or she is aware of the provisions of Section 3700 of the Labor Code that require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with provisions of that code, and that he or she will comply with such provisions before commencing the performance of the Work on the Contract.

C. List of Subcontractors: Pursuant to the provisions of Sections 4100 to 4114, inclusive, of the California Public Contracts Code, every bidder shall in his or her bid set forth:

1. The name and location of the place of business of each subcontractor.
2. The portion of the Work that will be done by each subcontractor. If the bidder fails to specify a subcontractor for any portion of the Work to be performed under the Contract in excess of one-half (1/2) of one percent (1%) of the bidder's total bid, the bidder agrees to perform that portion of the Work. For more details, refer to the General Conditions. The successful bidder shall not, without the written consent of the Owner, either:
 - a. Substitute any person as subcontractor in place of the subcontractor designated in the original bid.

- b. Permit any subcontract to be assigned or transferred or allow the Work to be performed by anyone other than the original subcontractor listed in the bid.
 - c. Sublet or subcontract any portion of the Work in excess of one half (1/2) of one percent (1%) of the total bid as to which his original bid did not designate a subcontractor.
- D. List of Design Professionals: Every bidder shall in his or her bid set forth:
- 1. The name and location of the place of business of each design professional (architect/engineer).
 - 2. The portion of the Work that will be done by each design professional. The successful bidder shall not, without the written consent of the Owner, either:
 - a. Substitute any person as a design professional in place of the design professional designated in the original bid.
 - b. Permit any professional services subcontract to be assigned or transferred or allow the Work to be performed by anyone other than the original design professional listed in the bid.

END OF DOCUMENT

AGREEMENT

PROJECT: Medical Warehouse Building, San Quentin State Prison

Agreement Number	
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1. This Agreement is entered into between California Prison Health Care Receivership Corporation and the Contractor named below.
2. The term of this Agreement is _____ calendar days, commencing five (5) calendar days after Notice to Proceed.
3. The amount of this Agreement is _____ and No/100 Dollars (\$ _____).
4. The parties agree to comply with the terms and conditions of the following exhibits, which are by this reference made a part of the Agreement to provide all Work for the above-titled project:

- Exhibit A – Performance Bond, Payment Bond, and Certificate of Insurance
- Exhibit B – Project Manual, and all duly-issued Addenda
 - General Conditions of the Contract for Construction
 - Supplementary Conditions
 - Specifications
- Exhibit C – Drawings dated _____, and all duly-issued Addenda

IN WITNESS WHEREOF, This Agreement has been executed by the parties hereto.

CONTRACTOR

CONTRACTOR'S NAME (if other than an individual, state whether a corporation, partnership, etc.)

BY (Authorized Signature)	DATE SIGNED (Do not type)
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PRINTED NAME AND TITLE OF AUTHORIZED SIGNER

ADDRESS

OFFICE OF THE RECEIVER

AGENCY NAME: California Prison Health Care Receivership Corporation

BY (Authorized Signature)	DATE SIGNED (Do not type)
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PRINTED NAME AND TITLE OF AUTHORIZED SIGNER

ADDRESS

CONTRACTORS ARE REQUIRED BY LAW TO BE LICENSED AND REGULATED BY THE CONTRACTORS' STATE LICENSE BOARD WHICH HAS JURISDICTION TO INVESTIGATE COMPLAINTS AGAINST CONTRACTORS IF A COMPLAINT REGARDING A PATENT ACT OR OMISSION IS FILED WITHIN FOUR YEARS OF THE DATE OF THE ALLEGED VIOLATION. A COMPLAINT REGARDING A LATENT ACT OR OMISSION PERTAINING TO STRUCTURAL DEFECTS MUST BE FILED WITHIN 10 YEARS OF THE DATE OF THE ALLEGED VIOLATION. ANY QUESTIONS CONCERNING A CONTRACTOR MAY BE REFERRED TO THE REGISTRAR, CONTRACTORS' STATE LICENSE BOARD, P.O. BOX 26000, SACRAMENTO, CA 95826.

SAE	Society of Automotive Engineers
TCA	Tile Council of America
UBC	Uniform Building Code
UL	Underwriters' Laboratories Inc.
USAED	Department of the Army, Corps of Engineers, Handbook for Concrete and Cement
WCLIB	West Coast Lumber Inspection Bureau
WWPA	Western Wood Products Association

1.2 Definitions.

Whenever the following terms are used in the contract, the meaning shall be as indicated:

Acceptance--The formal written acceptance of the work by an authorized representative of CPR Corp.

Approved, Directed, or Ordered--Approved, directed, or ordered by CPR Corp Representative unless otherwise indicated.

Caltrans Plans--The standard plans of the State of California, Department of Transportation (Caltrans).

Caltrans Specifications--The Standard Specifications of the State of California, Department of Transportation (Caltrans).

Change--A modification to work ordered in writing.

Change Order--The document which adds, deletes, or revises work and modifies the Contract. A Change Order may also adjust Contract Price and/or Time. A Change Order is part of the Contract Documents.

Construction Equipment--Equipment used for performance of work but not incorporated into the project.

Contract--The completed proposal, the completed and executed CPR Corp/Contractor Agreement, and the Contract Documents.

Contract Conditions--The General Conditions and the Supplementary Conditions.

Contract Documents--Including, but not limited to, the completed and executed CPR Corp/Contractor Agreement (including all documents incorporated by reference therein, addenda and exhibits thereto), Design-Builder's proposal, Contract Drawings, any documentation accompanying Contract Documents, Bonds, General Conditions, Supplementary Conditions, all Specifications, specific reference specifications, Notice to Proceed, and all modifications issued after the Notice to Proceed.

Contract Price--The price or prices for work set forth in the Contract.

Contractor--The entity which has entered into the contract with CPR Corp.

RELEASE OF CLAIMS

CONTRACTOR: _____ DATE: _____
PROJECT: _____

NET FINAL PAYMENT CALCULATED BY CALIFORNIA PRISON HEALTHCARE RECEIVERSHIP CORPORATION (CPR CORP): [Net Final Payment to be furnished by CPR Corp Representative]

Mail completed and signed Release of Claims form by certified mail, return receipt requested, to:

[Address to be furnished by CPR Corp Representative]

CAUTION: Failure of Contractor to complete, sign, and return this form to the above address within thirty (30) days of Contractor's receipt of this form shall constitute Contractor's binding acceptance of the final accounting and above Net Final Payment calculated by CPR Corp.

Choose one:

Approval of CPR Corp's final accounting and calculated Net Final Payment; Release of All Claims

Contractor agrees with CPR Corp's accounting and calculated Net Final Payment for the Contract set forth above and agrees that payment of said Net Final Payment pursuant to said accounting shall constitute payment in full for all labor, services, equipment or materials furnished in performance of the above Contract. Upon receipt by Contractor of a check from CPR Corp in the sum of \$_____ payable to _____ and when the check has been properly endorsed and has been paid by the bank upon which it is drawn, this document shall become effective to release CPR Corp and the State of California from any and all liability for any and all services, claims, demands for monetary compensation or damages arising out of, or related to the performance of the above Contract that exceed the amount of said Net Final Payment.

Claim for additional money; Partial Release of Claims

Contractor does not agree with CPR Corp's final accounting and calculated Net Final Payment for the Contract set forth above and makes claim for the additional sum of \$_____ (Additional Sum) above and beyond the amount of said calculated Net Final Payment. Upon receipt by Contractor of a check from CPR Corp for the calculated Net Final Payment in the sum of \$_____ payable to _____ and when the check has been properly endorsed and has been paid by the bank upon which it is drawn, this document shall become effective to release CPR Corp and the State of California from any and all liability for, any and all services, claims, demands for monetary compensation or damages arising out of, or related to the performance of the above Contract that exceed the sum of (1) the above calculated Net Final Payment plus (2) the above Additional Sum plus (3) interest and/or costs, if any, provided by law.

Contractor understands that Stop Notice actions are not included in the calculations herein and are not included in the proposed Net Final Payment.

DATE: _____ CONTRACTOR: _____
(Please type or print)

(Signature): _____ TITLE: _____

END OF SECTION

SUPPLEMENTARY CONDITIONS

1. SPECIFICATIONS

- 1.1 Where portions of these Specifications are written in imperative form, the imperative language is directed to the Contractor, unless specifically noted otherwise.
- 1.2 The organization of the Specifications into Divisions and Sections is not intended to control the Contractor in the distribution of work among the Contractor's own forces or the forces of the various subcontractors unless specifically required in individual specification sections.
- 1.3 Specification Paragraphs:
 - A. Specification paragraphs entitled "Section Includes" are not intended to "scope" the section nor imply a trade responsibility, but serve merely as a listing of significant items in the section to allow the reader to quickly assess the section content.
 - B. Similarly, specification paragraphs entitled "Related Sections" are not intended to coordinate the Contractor's work, but merely indicate where certain other significant items which may be related to the work of the section are specified.

2. WEATHER DATA

- 2.1 Data from the San Rafael Civic Center Weather Station will be used to determine the actual weather conditions at the site during the Contract.
- 2.2 To determine normal amounts of precipitation (inches per month) and normal rate of precipitation (inches per hour) at the project location, a ten-year average will be calculated using historical data from this weather station.

3. TIME OF COMPLETION

- 3.1 The Contractor shall complete the work of this Contract within 240 (two hundred forty) calendar days from the date of the Notice to Proceed.
- 3.2 Completion is substantial completion, which shall be defined as completion of the Work, as determined by CPR Representative, in accordance with the Contract Documents and certification by Contractor that the Work is complete. For Substantial Completion to be achieved, provided all other conditions set forth in the Contract Documents have been satisfied, the value of incomplete work and/or work requiring correction after final inspection shall not exceed one percent (1%) of the Contract Price, as then adjusted, as determined by the CPR Representative.

4. LIQUIDATED DAMAGES

Assessment: Liquidated Damages will be assessed in the amount of Five Hundred Dollars (\$500.00) per day for failure to complete work within the Time of Completion.

5. CONTRACTOR'S WORKSITE STAFF

- 5.1 Contractor shall assign, as a minimum, one (1) project manager and one (1) field superintendent who will be responsible for completing the Work in accordance with the Contract Documents.
- 5.2 Contractor's worksite staff shall give personal attention to the work, and keep work under control and in conformance with the Contract.
- 5.3 Prior to the performance of contracted duties, Contractor and its employees shall be required to be examined or tested or medically evaluated for tuberculosis (TB) in an infectious or contagious stage, and at least once a year thereafter or more often as directed by CDCR. Contractor and its employees shall be required to furnish to CDCR, at no cost to CPR Corp or CDCR, a form CDCR-7336 "Employee's Tuberculin Skin Test (TST) and Evaluation," prior to assuming their contracted duties and annually thereafter, showing that Contractor and its employees have been examined and found free of TB in an infectious state. The form CDCR-7336 will be provided by CDCR upon Contractor's request.

6. CONTRACTOR'S WORK AREA

- 6.1 For security, safety, and emergency purposes, San Quentin must have access to any Contractor facilities or structures that are locked, such as gates on temporary construction fencing. Coordinate keying of lock(s) with CPR Representative / CDCR Staff.
- 6.2 San Quentin is required to maintain a 50% diversion program for waste. Provide San Quentin with waste manifests showing the disposal and diversion of construction debris from the demolition of existing structures.

7. INSURANCE REQUIREMENTS

- 7.1 The Design-Build Contractor and its design professionals shall each provide Professional Liability Insurance, including contractual liability insurance, covering all professional services performed for or on behalf of CPR Corp. The limits of liability shall be no less than \$1,000,000 per claim and in the aggregate, unless specifically agreed otherwise in writing.
- 7.2 Nothing contained in the insurance provisions of the Contract shall limit the indemnity obligations of Design-Builder under other provisions of the Contract or applicable law.

8. DEFINITIONS

- 8.1 Agreement: This term is used interchangeably, throughout the Project Manual and all Contract Documents, with the following other designations: Contract, Design-Build Contract, and Design-Build Agreement.
- 8.2 Contractor: This term is used interchangeably, throughout the Project Manual and all Contract Documents, with the following other designations: General Contractor, Design-Build Contractor, and Design-Builder.
- 8.3 Overhead: "Overhead" as stated in General Conditions, Article 7 Changes, paragraph 7.2 Adjustments in Compensation, sub-paragraph B.5 Mark-ups, shall include the following:
- A. Capital expenses, including interest on Design-Builder's capital employed for the Work
 - B. Field inspection of work proposed, including layout and review time
 - C. General superintendence, including written reports and monitoring
 - D. General administration, estimating, and preparation of cost estimates
 - E. Computer services
 - F. Reproduction services
 - G. Cost of preparing and negotiating subcontracts
 - H. Pick-up or delivery of tools, equipment, materials, and products
 - I. Additional safety measures, coverage, and reporting
 - J. Clean-up, whether performed by Contractor or by a janitorial service
 - K. Dump charges or dumpster rental, if a Contractor's dumpster is already located on site
 - L. Salaries and other compensation of Design-Builder's personnel (including without limitation project engineers, field engineers, timekeepers, storekeepers, and clerical staff) stationed at Design-Builder's principal office or offices other than the site office, except as specifically provided elsewhere in the Agreement
 - M. Temporary on-site facilities:
 - 1. Offices
 - 2. Telephones
 - 3. Mobile phones
 - 4. Radios
 - 5. Plumbing
 - 6. Electrical (power, lighting, signal and data)
 - 7. Platforms
 - 8. Fencing
 - N. Home office expenses and expenses of offices other than the site office, including without limitation Design-Builder's home office computer system and all hardware, software, maintenance, and similar expenses
 - O. Insurance and bond premiums; warranties

- P. Procurement and use of workers' vehicles and fuel, and travel time to or from the Work site
 - Q. Surveying
 - R. Protection of Work
 - S. Small tools
 - T. Miscellaneous materials involved in the extra Work, including nails, screws, duct tape, and other minor consumables
- 8.4 Small Tools: Picks, shovels, chisels, hammers, screwdrivers, drills, circular saws, reciprocating saws, wheelbarrows, dollies, nail guns, staple guns, crowbars, compressors, light stands, water hoses, squeegees, safety glasses, A-frame ladders, and such items as are generally considered to be part of a worker's collection of tools for performing a specialty of work, and there is a reasonable expectation that the worker possesses or owns such tools.
- 8.5 Work: The Work referred to throughout the Project Manual and all Contract Documents includes development of design and construction of the Project, as described herein and elsewhere in the Contract Documents.

9. DESIGN PHASE SERVICES

- 9.1 Design Development: Based upon the conceptual design and requirements of the Contract Documents on which the Bid Proposal is based, the Design-Builder shall prepare Design Development Documents that further develop and detail the design and shall include the deliverables and level of detail consistent with CPR Corp's requirements and design-build industry standards. Design-Builder shall submit the Design Development Documents to CPR Corp Representative for review and approval.
- 9.2 Construction Drawings and Specifications: Upon written approval of the Design Development Documents and written authorization from CPR Corp Representative, Design-Builder will prepare working Drawings and Specifications setting forth in detail the requirements for the construction of the Work, based upon codes, laws, and regulations then in effect. These Construction Drawings and Specifications, upon approval by CPR Corp Representative and by the governing governmental authorities, will constitute a portion of the "Contract Documents" and will be used for construction.
- 9.3 Standard of Care: The Design-Builder's team shall include a team of architects and engineers who will function as the Architects and Engineers of Record (AEOR) for the project. Architectural and engineering services shall be procured from licensed, Design Professionals retained by Design-Builder or as permitted by the laws of California. The standard of care for architectural and engineering services performed under this Agreement shall be the care and skill ordinarily used by members of the architectural and engineering professions practicing under similar conditions at the same time and locality.

- 9.4 Ownership Of Documents: Throughout development of design and during the Project, CPR Corp shall be deemed the owner of all property rights, including irrevocable license of any copyrights, of all documents, Drawings, Specifications, electronic data and information prepared, provided or procured by Design-Builder, design professionals, architects, engineers, subcontractors and consultants ("Design Build Documents").
- A. Nothing in this Agreement shall preclude any design professional from using or reusing any details or other components of the documents for other projects.
 - B. Upon written notice, Design-Builder and all other firms and individuals shall promptly deliver to CPR Corp all Design Build Documents, both paper and electronic, formatted as reasonably directed by CPR Corp.
 - C. CPR Corp Representative will provide an AutoCAD (or compatible) drawing of the Civil topography included in the conceptual drawings issued by CPR Corp, for Design-Builder's use in performing field engineering and in preparing record ("as-built") drawings. Design-Builder

10. NOTICE(S) TO PROCEED

A separate Notice to Proceed will be issued for each of: (a) the Design Phase, (b) the hazardous materials abatement portion of the Work, (c) the demolition portion of the Work and construction of the foundation, and (d) construction of the new Medical Warehouse Building.

11. LABOR AND EQUIPMENT RATES FOR CHANGE ORDERS

Add a new sub-paragraph C under Article 7 Changes, paragraph 7.1 General, as follows:

"C. Within ten (10) days of beginning performance hereunder, Contractor shall provide Owner and Construction Manager (i) a list of Contractor's Personnel Categories and Rates, and (ii) a list of its Equipment Rental Rates. Rates and categories of personnel shall not be modified during the life of the Project without Owner's prior written approval. Rates and quantities of equipment rented shall be subject to Owner's prior approval. Unless otherwise agreed by Owner and Contractor, Contractor shall provide at least two (2) bona fide price quotations from reputable equipment suppliers to validate the reasonableness of the rental rates charged or the rates specified in Contractor's list of Equipment Rental Rates."

END OF DOCUMENT

SUMMARY OF WORK

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. Project description and phasing
 - 2. Use of premises.
- B. Related Documents and Sections
 - 1. General Conditions
 - 2. Supplementary Conditions.

1.2 PROJECT DESCRIPTION

- A. Location: The site is located on California State Prison property at San Quentin, Marin County, California.
 - 1. Project site is on State prison property, outside of the secure perimeter.
 - 2. Salvage of items for re-use and incorporation into this project will be outside of the State prison property secure perimeter.
- B. Work Covered by Contract: The Work of this Contract is design-build and consists of furnishing all labor, materials, equipment, services and expertise necessary to design and construct the Work described in Contract Drawings and Specifications. The new 7,000 SF pre-manufactured steel building includes interior warehouse space and a covered loading dock area that will be provided with one set of stairs, one dock leveler and one permanent scissor lift. The warehouse shall allow for pallet stacking of bulk supplies, with wide aisles for either forklift or pallet jack access, fixed shelving units for smaller items, a roll-up door and a man door with call buzzer. The interior space layout includes a fully caged secure storage area, a 900 SF cold storage room, workspace for 6 warehouse staff, including two offices, a workroom, and unisex toilet. The building will include a personal alarm system, an intercom PA system, a fire alarm system that reports to the fire house located within the prison, and temperature/humidity control. The foundation will be a structural slab supported by grade beams and piles. Exterior work includes subsurface metal detection and removal; asphalt concrete paving; hazardous materials abatement and removal of an existing watch tower, stockpiled building materials, concrete slab, and fencing; and other site improvements.
 - 1. The building floor slab shall be supported by structural grade beams and piles. Minimum floor live load shall be 250 psf.
 - 2. Driven piles will not be allowed.
 - 3. The preliminary soils report provided with the bid documents is for information only. Contractor shall engage a qualified soils consultant to provide substantiating investigation, recommendations for all aspects of the earthwork, and foundation requirements for the project.

Section 01010

- a. If recommendations of the qualified soils consultant differ significantly from the preliminary soils report and result in additional scope costs to the Contractor, CPR Corp will compensate Contractor for additional scope of work for which CPR Corp approves in writing.
 - b. As reflected herein and in the conceptual drawings made a part of the bid documents, CPR Corp assumes that a slab supported by structural grade beams and piles will provide the best structural design for the foundation. In its discretion and for quality assurance purposes CPR Corp may accept only this design, independent of the findings of Contractor's geotechnical investigations. Therefore, Contractor shall include the cost of this design in the proposal
- C. Owner's Responsibilities: On Contractor's receipt of products, inspect products jointly with Contractor.
- D. Contractor's Responsibilities: Install products in accordance with the Contract Documents, manufacturer's instructions, and applicable code requirements.
- 1.3 USE OF PREMISES
- A. Access to the site will be provided to Contractor through the main facility gate unless otherwise approved by the CPR Corp. Representative. Security clearance is required for each individual entering the project site.
 - B. Confine operations within the limits of designated construction areas unless otherwise approved.
 - C. Confine material storage, shop areas, equipment yards, and employee parking within designated areas unless otherwise directed by the CPR Corp. Representative.
 - D. Laydown Area
 - 1. Request from CPR Corp. Representative the assignment of a laydown area.
 - a. Only the area actually required by the Contractor will be assigned for the Contractor's use.
 - b. Locate Contractor's site offices within Contractor's laydown area.
 - 2. The area assigned to the Contractor may be improved by the Contractor for its use.
 - a. Electric power is available free of charge. Contractor is responsible for running power lines from source to Contractor's site office trailer and work areas.
 - b. Do not contaminate the soil during occupancy of the area.
 - c. Return area to its original condition upon termination of occupancy.

E. Temporary Facilities

1. Contractor shall provide and maintain proper sanitary toilet facilities, including hand washing facilities, for use of all workers employed on the Project in accordance with State and Local health departments. Use of Institutional toilet facilities will not be allowed. Contractor shall submit a site plan showing the locations of toilet facilities, hand washing stations, storage contains, connex boxes, construction office trailer, and any other structures that Contractor brings onto the project site, to CPR Corp Representative for approval by the State Fire Marshal.
2. Contractor shall provide and maintain temporary security fencing and/or safety barriers surrounding the project site and laydown areas and all open work areas in accordance with California Industrial Safety and to the satisfaction of CDCR and the CPR representatives to secure and protect the area and work.
3. Contractor shall provide and maintain adequate protection measures to ensure that damage will not occur to institution/prison property during the course of construction
4. Contractor shall provide and maintain adequate fire extinguishers and safety kits to be used in the event of an emergency.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION

STORAGE SHELVING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes the design and installation of factory engineered storage shelving systems.
- B. Related Sections
 - 1. Section 03300 – Cast-In-Place Concrete: Placement of metal fabrications in concrete.
 - 2. Section 13122 – Metal Building Systems

1.2 REFERENCES

- A. ANSI MH 16.1 – Specification For The Design, Testing And Utilization of Industrial Steel Storage Racks
- B. ANSI B18.22.1 - Plain Washers.
- C. ANSI B18.23.1 - Beveled Washers.
- D. ASTM A36 - Structural Steel.
- E. ASTM A53 – Hot-Dipped, Zinc-coated Welded and Seamless Steel Pipe.
- F. ASTM A108 - Steel Bars, Carbon, Cold-Finished, Standard Quality.
- G. ASTM A283 - Carbon Steel Plates, Shapes, and Bars.
- H. ASTM A307 - Carbon Steel Externally Threaded Standard Fasteners.
- I. ASTM A325 - High Strength Bolts for Structural Steel Joints.
- J. ASTM A500 – Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Round and Shapes.
- K. ASTM A501 – Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.
- L. ASTM A563 - Carbon and Alloy Steel Nuts.
- M. ASTM A1011 - Steel, Sheet and Strip, Carbon (0.15 Maximum Percent), Hot-Rolled, Commercial Quality.
- N. AWS A2.4 - Standard Welding Symbols.
- O. AWS D1.1 - Structural Welding Code.
- P. CBC - California Building Code, Current Edition.

- Q. CCR - California Code of Regulations: Title 24.
- R. SSPC - Steel Structures Painting Council.
- S. NFPA – National Fire Protection Association.

1.3 SUBMITTALS

- A. Submit under provisions of Division 1.
- B. Product Data consisting of manufacturer's product information for storage shelving components and accessories.
- C. Shop Drawings
 - 1. Indicate profiles, sizes, connection attachments, reinforcing, bracing, anchorage, size and type of fasteners, and accessories.
 - 2. Include erection drawings, plans, elevations, and details.
 - 3. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.
 - 4. Indicate type of mechanical and friction fit connections and reference appropriate ANSI MH 16.1 certification
 - 5. Include structural calculations as necessary, and if requested by CPR Corp Representative, showing seismic analysis for Zone 4 installation.
 - 6. Include Professional Structural Engineer's stamp on all drawings and calculations.
- D. Welders' Certificates: Submit under provisions of Division 1, certifying welders employed on the Work, verifying AWS qualification within the previous 12 months.
- E. Submit manufactures powder coating information, certifications and standard color selections.

1.4 QUALIFICATIONS

- A. Prepare Shop Drawings under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the State of California.
- B. Welders shall be qualified in accordance with AWS D1.1.
 - 1. Welders who have not performed welding for a period of three or more months shall be re-qualified.
 - 2. Welders whose work fails to pass inspection shall be re-qualified before performing further work.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver bolts, nuts, and washers in bags or boxes, tagged for identification.
- B. Store products to prevent rusting, deformation, and other damage.
- C. Store steel products off the ground, positioned to drain rainwater readily.

- D. Store other metal products in a weather tight and dry place until ready for use in the work.

1.6 FIELD MEASUREMENTS

- A. Manufacturer and installer shall field verify the dimensions of the building and design the system to fit within the allocated space.
- B. Contractor shall aid in and comply with the design requirements of the system manufacturer.

PART 2 PRODUCTS

2.1 SYSTEM DESIGN AND COMPONENTS

- A. Upright Columns:  Structural Channel Steel, 50,000 psi yield min.
- B. Beams and Braces:  Structural Channel Steel, 36,000 psi yield min.
- C. Footpads:  Steel sized to hold imposed load for entire bay.
- D. Diagonal and Horizontal Braces:  2" min.
- E. Bay Width:  Minimal 8'-0"
- F. Height: As shown on conceptual drawings
- G.  ding: Single and Double (back to back) stacking as indicated on construction documents.
- H. Shelving: Manufactures standard heavy duty wire mesh designed to hold  0 lbs per shelf.
- I.  ical Shelving Spacing: Not to exceed 4'-0"; with height adjustment capabilities at 4" on center for the entire height of the system.

2.2 MATERIALS

- A. Materials used in the metal fabrications specified herein shall contain a minimum of 40% recycled content.
- B. Steel Sections: ASTM A36 / A60.
- C. Steel Tubing: ASTM A500, Grade B.
- D. Plates: ASTM A283.
- E. Bolts, Nuts, and Washers
 - 1. Bolts: ASTM A307, Grade A.
 - 2. Nuts: ASTM A563, Grade A.

Section 10670

- a. Anchor Bolts: Heavy Hex.
 - b. Elsewhere: Hex or Heavy Hex.
 - 3. Washers: [ANSI B18.22.1] [ANSI B27.2] or [ANSI B18.23.1] [ANSI B27.4].
- F. Anchors
- 1. Proprietary type designed for intended use.
 - a. ITT Phillips Drill Division "Red Head Wedge or Sleeve Anchor".
 - b. Ramset Fastener Systems "Ramdrill".
 - c. Hilti Co. "HSL Heavy Duty HDI Drop-In Anchors".
 - 2. Bolt Size: Minimum 3/4 inch diameter unless otherwise indicated.
 - 3. Embed Anchors: ASTM A36.
- G. Weld Stud Anchors, High Strength Anchors (HSA): ASTM A108, Grade 1010 through 1020; headed concrete anchors, unless indicated otherwise.
- H. Welding Materials: AWS D1.1; type required for materials being welded.
- I. Finish: Any of the following finishes are acceptable:
- 1. Powder Coating: Manufacturers standard, no less than 10 mil thickness .
 - 2. Stainless steel
 - 3. Enamel
- J. Temporary Supports, Staying and Spacing: As required by project conditions.
- K. Shims and Leveling Devices: As required by project conditions.

2.3 FABRICATION

- A. Preparation
- 1. Prior to fabrication, straighten all materials by methods which will not injure material.
 - 2. Prior to assembling component parts of a connection, thoroughly clean all contact surfaces of loose rust, scale, burrs; remove all local twists and bends.
- B. Fit and shop assemble in largest practical sections, for delivery to site.
- C. Fabricate items with joints tightly fitted and secured.
- D. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.
- E. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.
- F. Exposed Mechanical Fastenings
- 1. Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.

Section 10670

2. Tamper proof metal fasteners: Under provisions of Section 05051 for exposed locations in inmate accessible areas.

G. Shop Connections

1. Welded wherever possible, unless otherwise indicated.
2. Make all welds exposed to the weather or damp conditions in the finished work continuous and watertight.

H. Bolted Connections

1. Drill, punch, or ream holes 1/16 inch larger than bolt diameter.
2. Unless otherwise indicated, holes may be punched if material is not thicker than bolt diameter plus 1/16 inch.
3. Ream unfair holes, but only up to next larger bolt size.
4. As erection progresses, bolt up work to assume dead loads, lateral forces, and erection stresses.

I. Assembly Using Standard Threaded Fasteners

1. Beveled Washers: Provide under bolt heads or nuts riding on surfaces exceeding 5 percent slope with respect to head or nut.
2. Tighten bolts for full bearing under heads and nuts and to manufacturers written requirements.

J. Shop Welding

1. Perform welding in accordance with AWS D1.1.
2. Provide welds of size indicated.
3. Where weld size is not indicated, use AWS minimum weld size, but not less than 3/16 inch fillet welds.

2.4 FINISHES

A. Surface Preparation

1. Grind weld spatter and sharp edges smooth prior to cleaning.

B. Powder Coating or Enamel

1. Apply in factory per manufactures written information

PART 3 EXECUTION

3.1 PREPARATION

A. Clean and strip primed steel items to bare metal.

B. Supply items required to be cast into concrete or embedded in masonry with setting templates, to appropriate sections.

3.2 INSTALLATION

A. Install items plumb and level, accurately fitted, free from distortion or defects.

Section 10670

- B. Allow for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.
- C. Obtain CDC Representative approval prior to site cutting or making adjustments not scheduled.

3.3 ERECTION TOLERANCES

- A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.
- B. Maximum Offset From True Alignment: 1/4 inch .

END OF SECTION

PALLET RACKS

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes the design and installation of high bay, factory engineered pallet storage systems.
- B. Related Sections
 - 1. Section 03300 – Cast-In-Place Concrete: Placement of metal fabrications in concrete.
 - 2. Section 13122 – Metal Building Systems

1.2 REFERENCES

- A. ANSI MH 16.1 – Specification For The Design, Testing And Utilization of Industrial Steel Storage Racks
- B. ANSI B18.22.1 - Plain Washers.
- C. ANSI B18.23.1 - Beveled Washers.
- D. ASTM A36 - Structural Steel.
- E. ASTM A53 – Hot-Dipped, Zinc-coated Welded and Seamless Steel Pipe.
- F. ASTM A108 - Steel Bars, Carbon, Cold-Finished, Standard Quality.
- G. ASTM A283 - Carbon Steel Plates, Shapes, and Bars.
- H. ASTM A307 - Carbon Steel Externally Threaded Standard Fasteners.
- I. ASTM A325 - High Strength Bolts for Structural Steel Joints.
- J. ASTM A500 – Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Round and Shapes.
- K. ASTM A501 – Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.
- L. ASTM A563 - Carbon and Alloy Steel Nuts.
- M. ASTM A1011 - Steel, Sheet and Strip, Carbon (0.15 Maximum Percent), Hot-Rolled, Commercial Quality.
- N. AWS A2.4 - Standard Welding Symbols.
- O. AWS D1.1 - Structural Welding Code.
- P. CBC - California Building Code, Current Edition.

- Q. CCR - California Code of Regulations: Title 24.
- R. SSPC - Steel Structures Painting Council.
- S. NFPA – National Fire Protection Association.

1.3 SUBMITTALS

- A. Submit under provisions of Division 1.
- B. Product Data consisting of manufacturer's product information for pallet rack components and accessories.
- C. Shop Drawings
 - 1. Indicate profiles, sizes, connection attachments, reinforcing, bracing, anchorage, size and type of fasteners, and accessories.
 - 2. Include erection drawings, plans, elevations, and details.
 - 3. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.
 - 4. Indicate type of mechanical and friction fit connections and reference appropriate ANSI MH 16.1 certification
 - 5. Include structural calculations as necessary, and if requested by CPR Corp Representative, showing seismic analysis for Zone 4 installation.
 - 6. Include Professional Structural Engineer's stamp on all drawings and calculations.
- D. Welders' Certificates: Submit under provisions of Division 1, certifying welders employed on the Work, verifying AWS qualification within the previous 12 months.
- E. Submit manufactures powder coating information, certifications and standard color selections.

1.4 QUALIFICATIONS

- A. Prepare Shop Drawings under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the State of California.
- B. Welders shall be qualified in accordance with AWS D1.1.
 - 1. Welders who have not performed welding for a period of three or more months shall be re-qualified.
 - 2. Welders whose work fails to pass inspection shall be re-qualified before performing further work.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver bolts, nuts, and washers in bags or boxes, tagged for identification.
- B. Store products to prevent rusting, deformation, and other damage.
- C. Store steel products off the ground, positioned to drain rainwater readily.

- D. Store other metal products in a weather tight and dry place until ready for use in the work.

1.6 FIELD MEASUREMENTS

- A. Manufacturer and installer shall field verify the dimensions of the building and design the system to fit within the allocated space.
- B. Contractor shall aid in and comply with the design requirements of the system manufacturer.

PART 2 PRODUCTS

2.1 MANUFACTURERS

Husky Systems (Wireway/Husky Corp.), or equal

2.2 SYSTEM DESIGN AND COMPONENTS

- A. Upright Columns: 4" Structural Channel Steel, 50,000 psi yield min.
- B. Beams and Braces: 4" Structural Channel Steel, 36,000 psi yield min.
- C. Footpads: 7 ga. Steel sized to hold imposed load for entire bay.
- D. Diagonal and Horizontal Braces: 2"x2" min.
- E. Bay Width: Nominal 8'-0"
- F. Height: 16'-0" to top shelf; system design to hold pallets to 20'-0". Or as otherwise shown on conceptual drawings.
- G. Loading: Single and Double (back to back) stacking as indicated on construction documents.
- H. Shelving: Manufactures standard heavy duty wire mesh designed to hold 3000 lbs per shelf.
- I. Vertical Shelving Spacing: Not to exceed 5'-0"; with height adjustment capabilities at 4" on center for the entire height of the system.

2.3 MATERIALS

- A. Materials used in the metal fabrications specified herein shall contain a minimum of 40% recycled content.
- B. Steel Sections: ASTM A36 / A60.
- C. Steel Tubing: ASTM A500, Grade B.
- D. Plates: ASTM A283.

- E. Bolts, Nuts, and Washers
 - 1. Bolts: ASTM A307, Grade A.
 - 2. Nuts: ASTM A563, Grade A.
 - a. Anchor Bolts: Heavy Hex.
 - b. Elsewhere: Hex or Heavy Hex.
 - 3. Washers: [ANSI B18.22.1] [ANSI B27.2] or [ANSI B18.23.1] [ANSI B27.4].
- F. Anchors
 - 1. Proprietary type designed for intended use.
 - a. ITT Phillips Drill Division "Red Head Wedge or Sleeve Anchor".
 - b. Ramset Fastener Systems "Ramdrill".
 - c. Hilti Co. "HSL Heavy Duty HDI Drop-In Anchors".
 - 2. Bolt Size: Minimum 3/4 inch diameter unless otherwise indicated.
 - 3. Embed Anchors: ASTM A36.
- G. Weld Stud Anchors, High Strength Anchors (HSA): ASTM A108, Grade 1010 through 1020; headed concrete anchors, unless indicated otherwise.
- H. Welding Materials: AWS D1.1; type required for materials being welded.
- I. Finish:
 - 1. Powder Coating: Manufacturers standard, no less than 10 mil thickness .
- J. Temporary Supports, Staying and Spacing: As required by project conditions.
- K. Shims and Leveling Devices: As required by project conditions.

2.4 FABRICATION

- A. Preparation
 - 1. Prior to fabrication, straighten all materials by methods which will not injure material.
 - 2. Prior to assembling component parts of a connection, thoroughly clean all contact surfaces of loose rust, scale, burrs; remove all local twists and bends.
- B. Fit and shop assemble in largest practical sections, for delivery to site.
- C. Fabricate items with joints tightly fitted and secured.
- D. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.
- E. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.
- F. Exposed Mechanical Fastenings
 - 1. Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.

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2. Tamper proof metal fasteners: Under provisions of Section 05051 for exposed locations in inmate accessible areas.

G. Shop Connections

1. Welded wherever possible, unless otherwise indicated.
2. Make all welds exposed to the weather or damp conditions in the finished work continuous and watertight.

H. Bolted Connections

1. Drill, punch, or ream holes 1/16 inch larger than bolt diameter.
2. Unless otherwise indicated, holes may be punched if material is not thicker than bolt diameter plus 1/16 inch.
3. Ream unfair holes, but only up to next larger bolt size.
4. As erection progresses, bolt up work to assume dead loads, lateral forces, and erection stresses.

I. Assembly Using Standard Threaded Fasteners

1. Beveled Washers: Provide under bolt heads or nuts riding on surfaces exceeding 5 percent slope with respect to head or nut.
2. Tighten bolts for full bearing under heads and nuts and to manufacturers written requirements.

J. Shop Welding

1. Perform welding in accordance with AWS D1.1.
2. Provide welds of size indicated.
3. Where weld size is not indicated, use AWS minimum weld size, but not less than 3/16 inch fillet welds.

2.5 FINISHES

A. Surface Preparation

1. Grind weld spatter and sharp edges smooth prior to cleaning.

B. Powder Coating

1. Apply in factory per manufactures written information

PART 3 EXECUTION

3.1 PREPARATION

- A. Clean and strip primed steel items to bare metal.
- B. Supply items required to be cast into concrete or embedded in masonry with setting templates, to appropriate sections.

3.2 INSTALLATION

- A. Install items plumb and level, accurately fitted, free from distortion or defects.

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- B. Allow for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.
- C. Obtain CDP Corp Representative approval prior to site cutting or making adjustments not scheduled.

3.3 ERECTION TOLERANCES

- A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.
- B. Maximum Offset From True Alignment: 1/4 inch .

END OF SECTION