

# **BID DOCUMENTS**

for

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT**

**INTERIOR RENOVATION AT FIRE STATION 41**

**BATTALION CHIEF QUARTERS &  
CREW BATHROOM REMODEL PROJECT**

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**1910 CHURCH STREET  
SIMI VALLEY, CALIFORNIA 93065**

**BID DUE DATE & TIME:**

**April 25, 2024 @ 1:00 PM**

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1910 CHURCH STREET  
SIMI VALLEY, CALIFORNIA 93065

BID DUE DATE & TIME:

April 25, 2024 @ 1:00 PM

CONTRACTOR'S NAME: \_\_\_\_\_

CONTRACTOR'S ADDRESS: \_\_\_\_\_

SIGNED BY: \_\_\_\_\_

Authorized Signature

Print Name

Date

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# **TABLE OF CONTENTS**

## **VENTURA COUNTY FIRE PROTECTION DISTRICT**

### **INTERIOR RENOVATION AT FIRE STATION 41**

#### **BATTALION CHIEF QUARTERS & CREW BATHROOM REMODEL PROJECT**

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#### **BIDDING, AGREEMENT FORMS AND BONDS:**

Notice Inviting Bids  
Additional Instructions to Bidders  
Bid Forms:  
    Non-Collusion Declaration  
    Bid Proposal and Bid Schedule  
    Bid Bond  
    Bidder's General Information  
    Prevailing Wage Compliance Certification  
    List of Subcontractors  
    List of Contractor's References  
    Questionnaire for Contractor/Bidder

#### **Agreement, Bonds, Other:**

    Performance and Payment Bonds  
    Contract Form  
    Excerpts from PCC 9204 January 1, 2017

#### **CONDITIONS OF THE CONTRACT:**

    Ventura County Standard Specifications (VCSS)  
    Modifications to Ventura County Standard Specifications

#### **SCHEDULE OF DRAWINGS**

#### **TECHNICAL SPECIFICATIONS**

#### **PROJECT DIRECTORY**



## **SCHEDULE OF DRAWINGS**

### **ARCHITECTURAL**

A-000 \_\_\_\_\_ COVER SHEET\_FS-41  
A-001 \_\_\_\_\_ GREEN BUILDING CODE NON-RESIDENTIAL  
A-002 \_\_\_\_\_ GREEN BUILDING CODE NON-RESIDENTIAL  
A-201 \_\_\_\_\_ DORM FLOOR PLAN & DEMO PLAN FS-41  
A-202 \_\_\_\_\_ DORM ELECTRICAL PLAN & PLUMBING PLAN FS-41  
A-203 \_\_\_\_\_ DORM REFLECTED CEILING PLAN FS-41  
A-204 \_\_\_\_\_ RESTROOM 120 RENOVATION FOR ACCESSIBILITY  
A-205 \_\_\_\_\_ RESTROOM ELECTRICAL PLAN & PLUMBING PLAN FS-41  
A-206 \_\_\_\_\_ ACCESSIBLE RESTROOM DETAILS  
A-207 \_\_\_\_\_ INTERIOR ELEVATIONS  
A-801 \_\_\_\_\_ DETAILS FS-41  
A-SPEC 1 \_\_\_\_\_ SPECIFICATIONS FS-41  
A-SPEC 2 \_\_\_\_\_ SPECIFICATIONS FS-41  
A-SPEC 3 \_\_\_\_\_ PRODUCTS  
A-SPEC 4 \_\_\_\_\_ PRODUCTS

### **STRUCTURAL**

S0 \_\_\_\_\_ STRUCTURAL INFORMATION  
S1 \_\_\_\_\_ ROOF FRAMING PLAN & FOUNDATION PLAN  
S2 \_\_\_\_\_ STRUCTURAL DETAILS

**END OF SCHEDULE OF DRAWINGS**

## **TECHNICAL SPECIFICATIONS**

**ALL APPLICABLE SPECIFICATIONS ARE NOTED ON THE DRAWINGS, IN ADDITION TO DIVISION 1 BELOW.**

DIVISION 1 – GENERAL REQUIREMENTS  
01010 \_\_\_\_\_ General Specifications of Work

### **APPENDICES**

APPENDIX 1 \_\_\_\_\_ STRUCTURAL ENGINEERING CALCULATIONS  
BY: CORRIE PUTNEY ENGINEER, INC.

**END OF TECHNICAL SPECIFICATIONS**

## **PROJECT DIRECTORY**

OWNER: VENTURA COUNTY FIRE PROTECTION DISTRICT

CONTACTS:

PROJECT MANAGER: DAVID KIRBY

(805) 914-4568

[david.kirby@ventura.org](mailto:david.kirby@ventura.org)

SITE MANAGER: GARETT SALZER

(820) 426-0340

[garett.salzer@ventura.org](mailto:garett.salzer@ventura.org)

165 Durley Avenue  
Camarillo, CA 93010

ARCHITECT: ROY E. COLBERT ARCHITECTURAL PLANNING DESIGN

CONTACT: ROY E. COLBERT, NO. C12050

2590 E. Main Street, Suite 100

Ventura, CA 93003

(805) 650-9590

[rcolb@sbchglobal.net](mailto:rcolb@sbchglobal.net)

STRUCTURAL ENGINEER: CORRIE PUTNEY ENGINEERING, INC.

CONTACT: CORRIE PUTNEY, NO. C54121

698 Westfield Court

Ventura, CA 93004

(805) 901-2078

[engineercorrie@gmail.com](mailto:engineercorrie@gmail.com)

**END OF PROJECT DIRECTORY**

**NOTICE INVITING BIDS**  
**FOR**  
**VENTURA COUNTY FIRE PROTECTION DISTRICT**  
**INTERIOR RENOVATION AT FIRE STATION 41**  
**BATTALION CHIEF QUARTERS & CREW BATHROOM REMODEL PROJECT**

- N-1 Notice is hereby given that sealed bids will be received in the bid box at the Ventura County Fire Protection District's (herein VCFPD, District, Owner or Agency) main office located at 165 Durley Avenue, Camarillo, CA 93010 **not later than 1:00 PM, April 25, 2024** for the Interior Renovation at Fire Station 41 – Battalion Chief Quarters & Crew Bathroom Remodel Project (herein "Project") located at 1910 Church Street, Simi Valley, California 93065. Issue date of Notice Inviting Bids is April 4, 2024.

Estimated cost of construction is: \$203,500

Time of Bid Closure: The bid box will be closed promptly at the time specified above. The person opening bids will not accept bids that are not in the bid box at closing time. Note that clocks in the building may not be set to the correct time and should not be relied upon.

- N-2 **Availability of Bid Documents:** Bid Documents are available to bidders starting April 4, 2024 and will be issued at:

Coast Reprographics (Attn: Brian Ehler)  
1710 Donlon Street, Suite 2, Ventura, California 93003  
Phone: (805) 642-5898 E-mail: [ventura@coast-repro.com](mailto:ventura@coast-repro.com)

One electronic download is free.

Hard copy set of Plans and Specifications may be purchased for a non-refundable amount of \$20.00 per set, if picked up from Coast Reprographics at the above address. Any shipping and handling costs shall be the responsibility of the bidder. Arrangements for receipt and payment shall be made directly with Coast Reprographics.

Call Coast Reprographics at the number above to place an order prior to pick up or access their Plan Room at: <https://www.coastplanroom.com/jobs/public> for electronic download.

Bid Documents are also available for viewing at the trade organizations listed below.

1. Builder's Notebook – [planroom@buildersnotebook.com](mailto:planroom@buildersnotebook.com)
2. Construction Bidboard – [planroom@ebidboard.com](mailto:planroom@ebidboard.com)
3. Cyber Copy – [dfssupport@cybercopyusa.com](mailto:dfssupport@cybercopyusa.com)
4. Ventura County Contractor's Association – [plan.room@vccainc.com](mailto:plan.room@vccainc.com)

- N-3 **Location of the Work:** The Work to be completed hereunder for the "Project" is located at 1910 Church Street, Simi Valley, California 93065.

- N-4 **General Description of the Work:**

In general, the Work to be performed for Fire Station 41 Remodel Project is defined by the Contract Documents and consists of the items of Work listed below including all Work shown upon the Construction Drawings, Technical Specifications and all other Trade Contract Documents concerning this Work as required for the complete installation of all Work in accordance with the Specifications, or in Change Order, inclusive of all labor, tools, materials, incidentals, equipment,

supervision, management, administration, testing, inspection, transport and all other necessary services, as defined by the Contract Documents.

Scheduling and Fire Station Continued Operations are important parts of this project. The following items should be considered within bids:

1. Contractor shall perform Work in 2 separate phases under the same project contract and timeline as described below, unless otherwise approved.
2. The fire station will remain in operation during construction, and as such contractor's means, methods, and sequencing shall keep that as a priority throughout construction.

The Work to be performed by the Contractor is further delineated, but not limited to all items below. All items referenced below shall be considered by the Contractor and shall be included in the Total Lump Sum Bid.

The Work for this project includes but not limited to the following Scope of Work and Services. See the Drawings for further details. All applicable specifications are on the Drawings. Structural Engineering Calculations are in APPENDIX 1.

#### PROJECT SCOPE OF WORK:

A. PHASE 1: The 1st phase is the remodel and reconfiguration of the crew bathroom (Room 113) and the new ADA compliant crew bathroom (Room 120) that is adjacent to the main crew bathroom. This work will need to be completed to usable point before the start of 2nd phase. Contractor's work includes but not limited to the following scope of work and services:

1. Demolition of all partitions, cabinets, fixtures, tile.
2. Demolition and reconfiguration of floor drains and all associated saw cutting and patch back/testing of self-priming floor drains. Demolition/reconfiguration and installation of all new plumbing sewer and supply lines.
3. Reconfigure wall framing, plumbing, mechanical, electrical etc. between rooms 120 and room 113 to allow for ADA accessibility.
4. Furnish and install new mechanical, electrical, plumbing, fixtures and/or equipment etc. per plan.
5. Furnish and install new waterproofing, tile, fixtures, partitions, shower doors, cabinets, doors, signage.
6. Furnish and install new drywall installation and finishing per plan specifications.
7. Furnish and install new primer and paint per plan specifications

B. PHASE 2: Phase 2 is the remodel of the Battalion Chief's dormitory and office area. Contractor's Work includes but not limited to the following scope of work and services:

1. Demolition of all ceiling fixtures, lights, mechanical, electrical, plumbing, framing, concrete, associated with reconfiguration of dormitory, office, kitchenette and/or hallways.
2. Furnish and install new footings, hold downs, framing, shear panel, rebar and concrete.
3. Furnish and install new mechanical, electrical, plumbing and fire sprinklers.
4. Furnish and install new drywall, paint, drop ceiling system, bracing, fixtures, flooring, cabinets, and countertops.
5. Demolition and removal of window in existing dormitory. All framing, waterproofing, stucco patch, drywall, paint associated with removal and infill of window into new closet area.
6. Kitchenette appliances that are noted and listed in the Plumbing Schedule on plan

Sheet A-202, shall be Owner-furnished and Contractor-installed (OFCI).

PLAN CLARIFICATIONS:

- **Sheet A-202:** The Plumbing Schedule correctly lists the cooktop as electric. However, contradictory note in the Electrical Floor Plan "SAMSUNG 24" 4-BURNER COOKTOP: #NA24T4230FS/AA EXTEND (E) GAS LINE" is hereby deleted along with associated incorrect visual extension of the gas line in the Plumbing Floor Plan from the utility room across the existing bathroom to the kitchenette. The bathroom is to remain untouched in Phase 2 of this project
- **Sheet A-203:** Keynote 07 refers to a C-16 Contractor Plan for sprinkler head locations based on the adjusted configuration of the Battalion Chief Quarters. This is a deferred permit that the Contractor will need to obtain utilizing appropriately licensed individuals submitted for approval to Ventura County Fire Prevention, unless otherwise approved.
- **Sheet A-204:** A missed item on the demolition plan for bathrooms 120 & 113 is addressing the existing mirrors. They shall be removed and provided to the owner for reinstallation later at this location or another facility.

Fire Station 41 will be in full service during construction. Contractor shall not interfere with any Fire Station operations or staff and shall immediately stop work, which is determined to be interfering with Fire Station operations by either the Ventura County Fire Protection District Command or the Fire District staff. Coordination of work with other trades shall be included as necessary.

Awarded Contractor shall be solely responsible for the means and methods, procedures and all requirements to complete the Work for this "Project". Contractor shall perform all Work in conformance with every law, statute, ordinance, building code, rule, or regulation and requirements of all City, County, State and Federal Agencies and Authorities having jurisdiction over this "Project", including the demolition, removal, transportation and disposal of all removed materials.

The Contractor shall furnish, provide, install, and maintain all required protective materials and coverings, medium, and services to adequately protect all areas of work during course of construction including maintenance of adequate dust control at all times, and thoroughly clean all areas of work at the end of each workday. Coordination of work with other trades shall be included as necessary.

The provisions of the Contract Documents, including County of Ventura Standard Specifications, Agency's Supplementary Standard Specifications and Division 1, Section 01010 shall apply to all Construction Drawings and Technical Specifications of this "Project".

**Recyclable Construction & Demolition Wastes:** The site of this Project is within the incorporated City of Simi Valley. Contractor shall comply with City of Simi Valley's Construction and Demolition Waste Management Plan and shall perform all Work in conformance with every law, statute, ordinance, building code, rule, or regulation and requirements of all City, County, State and Federal Agencies and Authorities having jurisdiction over this Project, including the demolition, removal, transportation and disposal of all removed materials.

N-5 **Award of Contract:** The Agency reserves the right to reject any and all bids, or to waive any minor irregularities or informalities in any bids or in the bidding. The Award of the contract, if made by the Agency, will be to the lowest responsible bidder.

The awarded Contractor shall have (14) calendar days following award of the Contract to execute all bonds, insurance certificates & endorsements, and contract forms. Agency reserves the right to award the contract to the second lowest responsible bidder if Contractor fails to meet the 14-day

requirement. All Building Permits for the project will be provided by the District except for the fire sprinkler deferred permit, unless otherwise approved.

- N-6 **Notice to Proceed and Completion of the Work:** Notice to Proceed will be issued within (7) calendar days after the Contract, bonds, insurance certificates & endorsements and other documents have been returned, properly completed by Contractor. The actual date on which the Contractor starts work shall be stated in the Notice to Proceed. All Work must be completed within 65 working days after the start date issued in the Notice to Proceed. TIME IS OF THE ESSENCE.

During the construction phase of the project, the Contractor shall provide their own temporary power unless agreed upon otherwise.

- N-7 **Toilet Facilities & Handwashing Stations:** Enclosed jobsite toilet facilities, handwashing station with running water, soap, disposable paper towels and hand sanitizer dispensers shall be provided and maintained at all times in neat, clean and sanitary conditions and regularly pumped out by the General Contractor. General Contractor shall be responsible for providing their own secure storage on the "Project" site. This shall be coordinated with the Project Manager and site personnel to ensure no hindrance to daily fire station operations.

- N-8 **Secure Storage and Parking Facilities:** The site will be very constrained with day-to-day station operations and construction activities. As such, the General Contractor shall be required to arrange for their own secure off-site storage and parking as none is anticipated to be made available on-site unless otherwise agreed upon. On-site placement/location of said storage shall be as approved by the Fire District.

- N-9 **Bids to Remain Open:** Bidders shall guarantee the Bid Prices for a period of 90 calendar days from the Date of Bid Opening. A bid may not be corrected, withdrawn, or canceled by the Bidder for a 90-day period following the bid submission deadline in N-1 above.

- N-10 **Bid Guarantee:** Each bid shall be accompanied by a bid guarantee in the amount not less than 10% of the amount bid and guaranteeing that the bidder will enter into a contract in accordance with the terms of the bidding documents, including, without limitation, providing a satisfactory Performance and Payment Bond (see N-19), if award is made. The bid guarantee shall be in one of the following forms: a bid bond written by an admitted surety insurer on the form included herein with the Bid Proposal form, a cashier's check drawn by a national bank, a check certified by a national bank or cash. Checks shall be made payable to County of Ventura, Ventura County Fire Protection District as a guarantee that the Bidder, if its Bid is accepted, will promptly obtain the required Bonds and Insurance, and will prepare the required submittal documents and execute the Contract. The Bid Bonds for the two lowest responsible bidders will be returned following final execution of a contract, all other Bid Bonds will be returned to the Bidders upon award of the contract by the Agency.

- N-11 **Bid Security:** Each bid shall be accompanied by a certified or cashier's check or Bid Bond in the amount of 10% of the total bid price, made payable to County of Ventura, Ventura County Fire Protection District as a guarantee that the Bidder, if its Bid is accepted, will promptly obtain the required Bonds and Insurance and will prepare the required submittal documents and execute the Contract. The Bid Bonds for the two lowest responsible bidders will be returned following final execution of a contract, all other Bid Bonds will be returned to the Bidders upon award of the contract by the Agency.

- N-12 **Contractor's License:** Bidders shall possess a valid Class B California Contractor's License, as defined by state law. The Contractor shall maintain said license for the duration of the "Project".

- N-13 **Retainage from Payments:** Ventura County Standard Specifications (VCSS) requires 5% retention from all payments.
- N-14 **Non-Mandatory Pre-Bid Meeting:** A non-mandatory pre-bid meeting is scheduled on April 11, 2024 @ 9:00 AM at the "Project" site. Although not mandatory, attendance is recommended. The meeting will be held for the purpose of answering any questions concerning the "Project". None of the information transmitted at the pre-bid meeting shall be construed in any way to modify, correct or change the Plans and Specifications. All corrections and changes deemed necessary based on discussions held at the pre-bid meeting shall be forwarded to all Plan Holders as an addendum or RFI clarification, as applicable.
- N-15 **Bidder's Questions or Requests for Information (RFI):** During the Bidding Period, bidders shall direct all questions in writing to the individual listed below, in the order listed. Deadline for submitting RFIs is April 17, 2024. Use the RFI form provided at the end of Division 1.

Original to David Kirby  
Copy to Garrett Salzer

Phone: (805) 914-4568  
Phone: (820) 426-0340

Email: [david.kirby@ventura.org](mailto:david.kirby@ventura.org)  
Email: [garrett.salzer@ventura.org](mailto:garrett.salzer@ventura.org)

- N-16 **Addenda:** Addenda to the Bid Documents that may be issued must be individually acknowledged by each Bidder by inserting the Addendum Number on the Bid Proposal. Failure to do so may result in the disqualification of your bid. The acknowledgement of receipt of each Addendum shall be taken as prima facie evidence that, prior to the submission of the bid, the bidder was fully cognizant of all provisions of each Addendum and of all work and conditions affected thereby. All addenda for this Project will be posted in the Planroom at Coast Reprographics' and may be viewed here: <https://www.coastplanroom.com/jobs/public>

- N-17 **Liquidated Damages:**

**For delay:** \$1,300.00 per calendar day.

For each consecutive calendar day in excess of the time specified, as adjusted in accordance with section 6-6 of the Ventura County Standard Specifications for completion of the Work, the Contractor shall pay to the Agency, or have withheld from monies due it, the sum of \$1,300.00.

**For inadequate or lack of supervision by Contractor: \$1,035.68 per calendar day.**

As defined in Section 18 of the Modifications to the VCSS, when work is performed at the site between the start date specified in the Notice to Proceed and the acknowledgment of completion of Work specified in Section 6-8, for which the required Contractor's project superintendent is not at the job site or, each working day the Contractor's project manager is not employed by the Contractor, the Contractor shall pay to the Agency, or have withheld from monies due it, the sum of \$1,035.68.

Contractor shall provide to the Fire District the names of the Project Superintendent and Project Manager before Notice to Proceed.

- N-18 **Qualifications and Competency of Bidders:** It is the policy of Ventura County Fire Protection District to conduct business only with responsible contractors who possess trustworthiness, quality, and fitness to satisfactorily perform Fire District contracts. Fire District will investigate with reasonable diligence the responsibility of contractors submitting proposals before awarding, or recommending the award of, contracts. Complete the Questionnaire for Contractor/Bidder and submit with your bid.

1. The bidding entity must have been established for a minimum of twelve consecutive months. Bidders shall possess a valid Class B California Contractor's License, as defined by state law, and must maintain said license for the duration of the Project.

2. The bidding entity, its Responsible Managing Owner (RMO) or its Responsible Managing Employee (RME), must have successfully completed at least three (3) projects that are of similar nature and complexity in accordance with accepted practices and standards. Provide a list of references by completing the List of Contractor's Reference of the bid documents.
3. The bidding entity, its RMO, or its RME shall not have been removed from construction projects for failure to perform or default on contract within the past five (5) years. Successful removal from any project shall be considered possible cause for disqualification from this Project.
4. Misrepresentation of submitted documentation by bidder shall constitute grounds for disqualification of its bid for this Project.

N-19 **Payment and Performance Bonds:** The California Civil Code §3247 requires a Payment Bond for all public works contracts exceeding \$25,000. Public Contract Code PCC §20129, requires a faithful Performance Bond on all contracts that are Bid. Payment and Performance Bonds are required for all contracts over \$25,000.00. The awarded Contractor shall furnish a satisfactory Payment Bond and Performance Bond each in the amount of 100% of the Contract Price. Cost of the bonds shall be included in the Contract Price. The Bonds shall remain in effect for one year after the date of Notice of Completion, except as provided by law or as otherwise agreed in writing by the Agency.

N-20 **Prevailing Wage:** Contractors shall pay prevailing wage rates on this "Project". A copy of the California Prevailing Wage Rates can be obtained from the following website:  
[www.dir.ca.gov/DLSR/PWD/index.htm](http://www.dir.ca.gov/DLSR/PWD/index.htm).

The rate fixed for each craft, classification, or type of work shall not be less than the prevailing rate paid in the craft, classification, or type of work.

N-21 **Registration with Department of Industrial Relations (DIR):** This Project is subject to compliance monitoring and enforcement by DIR. Contractor and all subcontractors must comply with the requirements of Labor Code section 1771.1(a), pertaining to registration of contractors. Pursuant to 1771.1(a), a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal or engage in the performance of any contract for public work unless currently registered with the DIR pursuant to section 1725.5, with limited exceptions for bid purposes only. Contractor shall agree to comply with these sections and all remaining provisions of the Labor Code. For more information, please go to the following websites: <http://www.dir.ca.gov/Public-Works/PublicWorks.html>

As the awarding body, the Fire District shall register this Project with DIR. A DIR Project ID number will be assigned to this "Project". Awarded Contractor shall use this number to submit certified payroll records into DIR's Electronic Certified Payroll Reporting (eCPR) database. Payment applications shall be submitted with copies of DIR's eCPR Online Confirmation that awarded Contractor's payroll submissions into DIR have been processed before request for payment may be processed.

N-22 **Rejection of bids:** The Fire District reserves the right to reject any and all Bids or to waive any minor irregularities or informalities in any bids or in the bidding.

N-23 Contractor acknowledges that: 1. Mr. David Kirby or his designee are acting solely as Agency's Representatives only, and not as Principals. 2. All services rendered and instructions issued by Mr. David Kirby or his designee are solely as representatives for the Agency and for the Agency's benefit. 3. There are no duties of any kind owed by Mr. David Kirby or his designee to the Contractor. To the maximum extent permitted by law, under no circumstances will the Contractor look to or make any claim against Mr. David Kirby or his designee. The Agency shall be solely responsible for payment(s) to the Contractor for all services rendered under the contract. It is acknowledged that the relationship created by this contract is solely between the Agency and the Contractor.



- N-24 **Personal Protective Equipment (PPE):** Proper Personal Protective Equipment (PPE) and clothing shall be worn at all times. Prohibited clothing includes but not limited to tennis shoes, OSHA tennis shoes, shorts or cut-offs, shirts without sleeves, muscle shirts. Hardhat and safety glasses shall be worn at all times in a manner conforming to Manufacturer's and or OSHA standards. The construction area shall be designated, posted, enforced at all times for proper PPE and clothing compliance.

ADDITIONAL INSTRUCTIONS TO BIDDERS  
FOR  
VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW BATHROOM REMODEL PROJECT

Bidders for the work outlined within these Bid Documents, shall fully review the content of the entire bid package as indicated within the Table of Contents. The submittal of a Bid shall constitute an irrefutable representation by the Bidder that the Bidder has completely read, examined, and understood the contents of the bid package, has carefully and fully read, analyzed, and understood the plans and specifications for the Work involved therewith and has visited the jobsite together with the surrounding environment and made reasonable investigation in order to ascertain any and all conditions affecting the Work. If Bidder discovers any errors, omissions or ambiguities in the plans and specifications, Bidder shall notify the Fire District, as provided in section N-13 of the Notice Inviting Bids, prior to bid opening in time for Fire District to issue and appropriate addenda.

Should the Contract Documents indicate that a substitution can be made, such proposed substitution shall be submitted for review and acceptance/rejection by the Agency and Agency's Representative, not later than (5) working days following Award of the Contract. Under no circumstances, shall rejection of a proposed substitution by the Agency or its Representative relieve the Contractor from any responsibilities of the Contract.

**SIGNING OF THE BID:** Fill in all indicated blanks in this proposal using typewriter or ink and sign with ink. Proposals signed by an agent other than an owner, partner or corporate officer shall be accompanied by a power-of-attorney. Proposal form must be dated.

**NON-COLLUSION AFFIDAVIT:** The non-collusion affidavit required by Public Contract Code 7106 is included in this bid document.

**BID FORM NOT TO BE ALTERED:** Bidders shall not edit the bid forms. Do not change the wording of this proposal. Any additions, deletions, conditions, limitations or provisions by the bidder will render the proposal irregular and may cause its rejection.

**CORRECTING BID:** Explain over your signature any erasures or deletions of information entered by the bidder in this proposal. Modifications submitted separately from this form will not be accepted.

**SUBMITTING BID:** Submit your bid by mail or in person on one copy only of this proposal form, with addenda acknowledged (as applicable) by inserting the addenda number(s) on the proposal form and with all required bid forms attached, in a sealed envelope addressed to:

Ventura County Fire Protection District, 165 Durley Avenue, Camarillo, CA 93010.

Attention: Mr. David Kirby

Project Name: Interior Renovation at Fire Station 41

Battalion Chief Quarters & Crew Bathroom Remodel Project

**IMPORTANT:**

- Print your company name and return address on the envelope.
- Proposals received that are not signed in ink will not be considered.
- Late bids will not be opened or considered.
- Bids must be on the forms provided with this bid package.
- Electronically transmitted bids, bid modifications or bid withdrawals will not be considered.

**TIME OF BID CLOSURE:** The bid box will be closed promptly at the time specified in N-1.

Page 12 of 22

Bid Documents  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

**MAILED BIDS (Including Express Delivery):** Bids received at the Fire District Administration Headquarters (HQ) building, located at 165 Durley Avenue, Camarillo, California 93010 by 1:00 PM on, or before the bid opening date will be considered to have been placed in the bid box on time. U. S. Postal Service Special Delivery, Registered and Certified mail may slow actual receipt of bids. **Bidder is solely responsible for sending bid early enough to insure delivery to the Fire District's HQ on time.**

All bids must be marked "SEALED BID" in large letters on the outside of the delivery envelope and clearly show the project name, and addressed to David Kirby.

Electronically transmitted bids or modifications will NOT be considered.

**WITHDRAWAL OF BID/PROPOSAL:** Proposals may be withdrawn by the bidder prior to the time stated for opening bids upon written request, signed by the bidder or his/her authorized agent and submitted in the same manner as a bid.

To retrieve a bid from the bid box may take 10 or more minutes as it requires the following steps: 1) written request to withdraw the bid (withdrawal request form is available at Fire District's HQ reception counter); 2) the positive identification of the person requesting the withdrawal such as a picture ID; and 3) the opening of the bid box.



BID PROPOSAL  
FOR  
VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW BATHROOM REMODEL PROJECT

Bid Due Date & Time: April 25, 2024 @ 1:00 PM. See Instructions to Bidders when government offices are closed to the public.

The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into Contract with Ventura County Fire Protection District to perform the Work as specified or indicated in said Contract Documents entitled: Ventura County Fire Protection District's Interior Renovation at Fire Station 41 – Battalion Chief Quarters & Crew Bathroom Remodel Project located at 1910 Church Street, Simi Valley, CA 93065 for the price stated in the Bid Schedule.

Bidder accepts all of the terms and conditions of the Contract Documents, including without limitations, those in the Notice Inviting Bids and Instructions to Bidders.

This Bid will remain open for the period stated in the Notice Inviting Bids. The Bidder will enter into a Contract within the time and in the manner as is required in the Notice Inviting Bids and will furnish the insurance certificates and Bonds as required by the Contract Documents.

Bidder has examined copies of all the Contract Documents through and inclusive of the following Bid Addenda (receipt of which is hereby acknowledged),

Bid Addenda Number:_____	Date:_____
Bid Addenda Number:_____	Date:_____
Bid Addenda Number:_____	Date:_____

Bidder has familiarized themselves with the nature and extent of the Contract Documents, the Work, the site together with the surrounding environment and locality, the legal requirements involved (including all applicable federal, state and local laws, ordinances, rules, regulations, codes, etc.) and the conditions affecting costs, progress or performance of the Work and has made such independent investigations as Bidder deems necessary.

To all the foregoing and including the Bid Schedule and Bidder's General Information, said Bidder further agrees to complete the Work required under the Contract Documents within the Contract Time stipulated within the Contract Documents, and to accept in full payment therefore the Contract Price named in the Bid Schedule herein.

**BID SCHEDULE:** All Work shall be performed in accordance with Contract Documents for the

Total Lump Sum Bid/Contract Price of: \$ \_\_\_\_\_

*	Dollars	Cents
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\* **Note:** The *Total Lump-Sum Bid Price* is fully inclusive of all costs including overhead and profit and shall constitute the maximum amount payable by the Agency to the Contractor, under the Contract.

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**\* AWARD OF CONTRACT:**

- Bidders shall complete and submit, by the due date and time, all forms listed under “Bid Forms” in the table of contents or the Bid may be considered non-responsive.

The Bid must be signed in ink, in the name of the Bidder and must bear the signature in longhand of the person duly authorized to sign for the Contractor. Proposals signed by an agent other than an owner, partner or corporate officer shall be accompanied by a power-of-attorney. Proposal form must be dated.

Bidder: \_\_\_\_\_  
(Company Name)

Signature By: \_\_\_\_\_  
(Signature – Authorized Representative) (Print Name)

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

Date: \_\_\_\_\_

BID BOND  
FOR  
VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW BATHROOM REMODEL PROJECT

Enter                    }  
Name &                }  
Address               }  
of Bonding           }  
Company               }

**BID BOND**

KNOW ALL PERSONS BY THESE PRESENTS: That we \_\_\_\_\_  
\_\_\_\_\_, Principal,  
and \_\_\_\_\_  
\_\_\_\_\_, Surety, are held and firmly bound unto

The County of Ventura and The Ventura County Fire Protection District, Obligee, in the sum of ten percent of the total amount of the Bid for the payment of which we bind ourselves, our legal representatives, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has submitted or is about to submit a proposal to Obligee on a contract for the Interior Renovation at Fire Station 41 – Battalion Chief Quarters & Crew Bathroom Remodel Project located at 1910 Church Street, Simi Valley, CA 93065.

NOW, THEREFORE, if that contract be awarded to Principal and Principal shall, within such time as may be specified, enter into the contract in the prescribed form in writing and give such bond or bonds as may be specified in the bidding or contract documents with surety acceptable to Obligee then this obligation shall be null and void; otherwise to remain in full force and effect.

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

Signed, sealed and dated.

\_\_\_\_\_  
(Principal)

by \_\_\_\_\_ (Seal)

\_\_\_\_\_  
(Surety)

by \_\_\_\_\_ (Seal)

BIDDER'S GENERAL INFORMATION  
FOR  
VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW BATHROOM REMODEL PROJECT

Each Bid shall be accompanied by the following information furnished by the Bidder. Additional sheets and other attachments shall be included with the Bid as necessary. In no event shall an Award of Contract be made unless all of the Bidder's General Information outlined below, is provided to the Agency.

**Please type or print this page.**

1. BIDDER/CONTRACTOR'S name and street address:

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Name of RMO or RME: \_\_\_\_\_

California State Contractor's License Number, Classifications, and Expiration Date for RMO or RME: \_\_\_\_\_

2. a. CONTRACTOR'S telephone number (     ) \_\_\_\_\_  
b. CONTRACTOR'S facsimile number (     ) \_\_\_\_\_  
c. CONTRACTOR'S email address \_\_\_\_\_
3. a. CONTRACTOR'S primary state license classification: \_\_\_\_\_  
b. CONTRACTOR'S California State License # and Expiration Date: \_\_\_\_\_  
c. Name of licensee & RMO or RME if different from (1) above: \_\_\_\_\_  
d. CONTRACTOR'S Department of Industrial Relations (DIR) Registration No. \_\_\_\_\_  
e. DIR Registration Number's Expiration Date: \_\_\_\_\_

4. Name and title of person/s who inspected the site of the proposed Work, and who attended the pre-bid conferences (if held) for the bidder:

Name/Title: _____	Date of Inspection: _____
Name/Title: _____	Date of Inspection: _____
Name/Title: _____	Date of Inspection: _____

5. Surety Company and agent who will provide the bonds on this Contract (if required):

a. Name of Surety: \_\_\_\_\_  
b. Address: \_\_\_\_\_  
c. Contractor's Bonding Limit: \_\_\_\_\_  
d. Surety Company Agent: \_\_\_\_\_  
e. Telephone Numbers: Agent: \_\_\_\_\_ Surety: \_\_\_\_\_  
f. Facsimile Numbers: Agent: \_\_\_\_\_ Surety: \_\_\_\_\_  
g. Email Addresses: Agent: \_\_\_\_\_ Surety: \_\_\_\_\_



PREVAILING WAGE COMPLIANCE CERTIFICATION  
FOR  
VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW BATHROOM REMODEL PROJECT

To: Ventura County Fire Protection District  
165 Durley Avenue  
Camarillo, California 93010

I hereby certify that I will conform to the State of California Public Works Contract Requirements regarding wages, benefits, on site audits with 48-hour notice, certified payroll records, and apprentice and trainee employment requirements.

---

CONTRACTOR

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CONTRACTOR'S PRINCIPAL'S SIGNATURE

(PRINT NAME)

---

DATE

LIST OF SUBCONTRACTORS  
FOR  
VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW BATHROOM REMODEL PROJECT

The following is a complete list of all who will perform more than 1/2% of 1% the value of the base bid amount.

Bidder: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature – Authorized Representative)                      Print Name                      Title

Listing shall comply with the provisions of California Public Contract Code, Section 4104.

No contractor or subcontractor may be listed on a bid proposal for a public works project unless registered with the Department of Industrial Relations (DIR) pursuant to Labor Code 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

**State each subcontractor's CA State License No. (CSLB) & DIR Registration No. below.**

**If there are no subcontractors, indicate NONE across this page and initial.**

NAME OF SUBCONTRACTOR	PERCENT OF WORK	ITEM OF WORK	SUBCONTRACTOR'S CSLB NO. & DIR REGISTRATION NO.	COMPLETE BUSINESS ADDRESS & PHONE NO.

If more space is needed, attach additional sheet.

LIST OF CONTRACTOR'S REFERENCES  
FOR  
VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW BATHROOM REMODEL PROJECT

Bidder: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature – Authorized Representative)

Print Name \_\_\_\_\_ Title \_\_\_\_\_

NAME OF PROJECT	PROJECT ADDRESS	PROJECT CONTACT PHONE NO. & EMAIL ADDRESS	START DATE, COMPLETION DATE, OR IN PROGRESS	CONTRACT VALUE

If more space is needed, attach additional sheet.

PERFORMANCE AND PAYMENT BONDS

Bond No. \_\_\_\_\_

**SURETY BONDS**  
**Performance Bond**

Whereas, the Ventura County Fire Protection District, State of California, hereinafter called "Agency", and \_\_\_\_\_ hereinafter called "principal" have entered into a contract dated \_\_\_\_\_ whereby principal agrees to complete certain designated work identified as Ventura County Fire Protection District's Interior renovation at Fire Station 41 – Battalion Chief Quarters & Crew Bathroom Remodel Project located at 1910 Church Street, Simi Valley, CA 93065 and to perform other duties and obligations as described in said contract which is incorporated herein by this reference and made a part hereof; and

Whereas principal is required under the terms of said contract to furnish a bond to guarantee principal's faithful performance of the work and all terms and conditions of the contract

Now, therefore, we the principal and the undersigned, as corporate surety, are held and firmly bound unto Agency in the penal sum of \_\_\_\_\_ (\$ \_\_\_\_\_) lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, successors, executors, and administrators, jointly and severally, firmly by these presents.

The condition of this obligation is such that if the principal, 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 provisions in the said Contract and any alteration thereof made as therein provided, on principal's 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 Agency, its officers, agents and employees, as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect.

The above obligation shall continue after Agency's acceptance of the work for the duration of the warranty period as specified in the contract during which time if principal fails to make full, complete, and satisfactory repair or replacement to the work and/or fails to protect Agency from loss or damage resulting from or caused by defective materials or faulty workmanship, the obligation of surety hereunder shall continue so long as any obligation of principal remains.

**Payment Bond**

And, whereas, under the terms of said contract, principal is required before entering upon the performance of the work, to file a good and sufficient payment bond with the Agency to secure the claims to which reference is made in Title 3 (commencing with Section 9000) of Part 6 of Division 4 of the Civil Code of the State of California.

Now, therefore, said principal and the undersigned, as corporate surety, are held firmly bound unto the Agency and all contractors, subcontractors, laborers, material suppliers and other persons employed in the performance of the aforesaid contract and referred to in the aforesaid Civil Code in the like sum of \_\_\_\_\_ (\$ \_\_\_\_\_) for materials furnished or labor thereon of any kind, or for amounts due under the Unemployment Insurance Act with respect to such work or labor, or for any amounts required to be deducted, withheld and paid over to the Franchise Tax Board from the wages of employees of the contractor and the contractor's subcontractors that said surety will pay the same in an amount not exceeding the amount hereinabove set forth, and also in case suit is brought upon this bond, will pay, in addition to the face amount thereof, costs and reasonable expenses and fees including reasonable attorney's fees incurred in successfully enforcing such obligation, to be awarded and fixed by the court, and to be taxed as costs and to be included in the judgment herein rendered.

It is hereby expressly stipulated and agreed that this bond shall inure to the benefit of any and all persons, companies and corporations entitled to file claims under Title 3 (commencing with Section 9000) of Part 6 of Division 4 of the Civil Code, so as to give a right of action to them or their assigns in any suit brought upon this bond.

Should this condition of this bond be fully performed, then this obligation shall be become null and void; otherwise, it shall be and remain in full force and effect.

**General Terms**

The surety hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of said contract or the plans and specifications accompanying the same shall in any manner affect its obligations on these bonds, and it does hereby waive notice of any such change, extension, alteration, or addition.

Nothing herein shall limit the Agency's right or surety's obligations under the contract or applicable law, including, without limitation, California Code of Civil Procedure section 337.15.

In witness whereof, this instrument has been duly executed by the principal and surety above named on \_\_\_\_\_, 2024.

\_\_\_\_\_  
Name of Principal

By \_\_\_\_\_

Title \_\_\_\_\_

\_\_\_\_\_  
Name of Surety

By \_\_\_\_\_

Attorney-in-Fact

Address \_\_\_\_\_

Telephone No \_\_\_\_\_

Page 22 of 22

**INDICATE COMPLETE ADDRESS OF SURETY TO WHICH CORRESPONDENCE CONCERNING THIS BOND SHOULD BE DIRECTED.**

Bid Documents  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

# **Ventura County Fire Protection District**

## **Questionnaire for Contractor/Bidder**

Bid Documents – Questionnaire for Contractor/Bidder  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

**QUESTIONNAIRE FOR CONTRACTOR / BIDDER  
FOR  
VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW RESTROOM REMODEL PROJECT**

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NAME OF CONTRACTOR / BIDDER: \_\_\_\_\_

It is the policy of County of Ventura and Ventura County Fire Protection District (herein Fire District) to conduct business only with responsible contractors who possess trustworthiness, quality and fitness to satisfactorily perform County contracts. Fire District will investigate with reasonable diligence the responsibility of contractors submitting proposals before awarding, or recommending the award of, contracts. To assist the Fire District in this effort, please respond to the following questions.

1. Has any owner, Contractors' State License Board (CSLB) qualifier, or officer operated as a contractor under any other name or license in the past five years?

YES \_\_\_\_\_ NO \_\_\_\_\_

If answered yes, please give the names and license numbers for all firms and provide details below:

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2. Is the general contractor submitting a bid for this project a subsidiary, parent company, holding company, or affiliate of any other construction firm?

YES \_\_\_\_\_ NO \_\_\_\_\_

If answered yes, please give the names and details below:

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3. List all California State license numbers, classifications, and expiration dates currently held by the general contractor, including general contractor's Department of Industrial Relations (DIR) registration number and expiration date.

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4. Has the general contractor changed names or license numbers in the past five years?

YES \_\_\_\_\_ NO \_\_\_\_\_

If answered yes, please provide details below:

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**QUESTIONNAIRE FOR CONTRACTOR / BIDDER  
FOR  
VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW RESTROOM REMODEL PROJECT**

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5. Has any of the bidder's California contractor's license(s) been suspended or revoked in the past five years?

YES \_\_\_\_\_ NO \_\_\_\_\_

If answered yes, please provide details below:

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6. At any time in the past five years has your firm, or any of its owners or officers been convicted of a crime involving the award of a contract of a government construction project, or bidding or performance of, a government contract?

YES \_\_\_\_\_ NO \_\_\_\_\_

If answered yes, please provide details below:

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7. Is your firm currently a debtor in a bankruptcy case?

YES \_\_\_\_\_ NO \_\_\_\_\_

If answered yes, please provide details below:

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8. Was your firm in bankruptcy at any time in the past five years?

YES \_\_\_\_\_ NO \_\_\_\_\_

9. At any time in the past five years, has your firm been assessed liquidated damages after completion of a project under a construction contract with either a public or private owner?

YES \_\_\_\_\_ NO \_\_\_\_\_

If answered yes, please provide details below:

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**QUESTIONNAIRE FOR CONTRACTOR / BIDDER  
FOR  
VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW RESTROOM REMODEL PROJECT**

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10. In the past five years has your firm, or any other firm with which any of your company's owners, officers, or partners was associated with, been disbarred, disqualified, removed, or otherwise prevented from, bidding on or completing any government agency or public works project(s) for any reason?

YES \_\_\_\_\_ NO \_\_\_\_\_

If answered yes, please provide details below:

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11. In the past five years, has your firm been denied an award of a public works contract based on a finding by a public agency that your company was not a responsible bidder?

YES \_\_\_\_\_ NO \_\_\_\_\_

If answered yes, please provide details below:

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12. At any time in the past five years, has any surety company made any payments on your firm's behalf, as a result of default, to satisfy any claims made against a performance or payment bond issued on your firm's behalf, in connection with a public or private construction project?

YES \_\_\_\_\_ NO \_\_\_\_\_

If answered yes, please provide details below:

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13. In the past five years, has any insurance carrier, for any form of insurance, refused to renew the insurance policy for your firm?

YES \_\_\_\_\_ NO \_\_\_\_\_

If answered yes, please provide details below:

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SIGNATURE ON NEXT PAGE



**QUESTIONNAIRE FOR CONTRACTOR / BIDDER  
FOR  
VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW RESTROOM REMODEL PROJECT**

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The undersigned hereby declares under penalty of perjury under the laws of the state of California that the foregoing is true and correct.

Bidder: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature – Authorized Representative)

Printed Name: \_\_\_\_\_

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

Date: \_\_\_\_\_

# **Contract Sample**

Bid Documents – Contract Sample  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

# CONTRACT (SAMPLE ONLY)

PROJECT: VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW BATHROOM REMODEL PROJECT

PROJECT ADDRESS: 1910 CHURCH STREET  
SIMI VALLEY, CALIFORNIA 93065

The names and addresses of the parties to this Contract, who shall be referred to as "Agency or VCFPD" and "Contractor" respectively, are as follows:

AGENCY: VENTURA COUNTY FIRE PROTECTION DISTRICT  
165 DURLEY AVENUE  
CAMARILLO, CALIFORNIA 93010

CONTRACTOR: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The Agency and the Contractor mutually agree on \_\_\_\_\_, 2024 as follows:

## 1. CONTRACT DOCUMENTS

This Contract consists of the Contract Documents as defined in sub-section 1-2 of the Standard Specifications, which include the following documents and represents the complete agreement between Agency and Contractor:

- (a) Contract
- (b) Addenda, by number and date.
  - Addendum No. 01      Issue Date: \_\_\_\_\_
  - Addendum No. 02      Issue Date: \_\_\_\_\_
- (c) Notice Inviting Bids Issued on : April 4, 2024
- (d) Non-Collusion Affidavit.
- (e) List of Subcontractors.
- (f) List of Contractor's References.
- (g) Instructions to Bidders.
- (h) Bid and Documentation Accompanying the Bid.
- (i) Prevailing Wage Determinations.
- (j) Performance and Payment Bonds.
- (k) Permits from Jurisdictional Regulatory Agencies.
- (l) Special Provisions, Plans, Standard Plans, Standard Specifications, Reference Specifications.
- (m) Plans and Specifications identified by:

VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW BATHROOM REMODEL PROJECT

- (n) Award of Contract: Agency action of \_\_\_\_\_ 2024.

Bid Documents – Contract Sample  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

# CONTRACT (SAMPLE ONLY)

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- (o) Certificate & Applicable Endorsements/Proof of Insurance.
- (p) Copy of Appropriate Contractor's License.
- (q) Change Orders.
- (r) Notice of Award.
- (s) Schedule of Values.
- (t) Construction Schedule
- (u) Submittal Schedule & Submittals
- (v) Name of Contractor's Project Superintendent
- (w) Name of Contractor's Project Manager
- (x) Notice to Proceed.
- (y) Notice of Completion.

## 2. DESCRIPTION OF WORK

The Contractor shall perform and complete in strict conformity with this Contract the Work as described and Shown in the Contract Documents for the Interior Renovation at Fire Station 41 – Battalion Chief Quarters & Crew Bathroom Remodel Project (herein "Project") located at 1910 Church Street, Simi Valley, California 93065.

### **General Description of the Work:**

In general, the Work to be performed for Fire Station 41 Remodel Project is defined by the Contract Documents and consists of the items of Work listed below including all Work shown upon the Construction Drawings, Technical Specifications and all other Trade Contract Documents concerning this Work as required for the complete installation of all Work in accordance with the Specifications, or in Change Order, inclusive of all labor, tools, materials, incidentals, equipment, supervision, management, administration, testing, inspection, transport and all other necessary services, as defined by the Contract Documents.

The Work for this Project includes but not limited to the following Scope of Work and Services. See the Drawings for further details. All applicable specifications are on the Drawings. Structural Engineering Calculations are in APPENDIX 1.

Scheduling and Fire Station Continued Operations are important parts of this Project. The following items are included in this Contract.

1. Contractor shall perform Work in two separate phases under the same contract and timeline as described below, unless otherwise approved.
2. Fire Station 41 shall remain in operation during construction, and as such contractor's means, methods, and sequencing shall keep that as a priority throughout construction.

The Work to be performed by the Contractor is further delineated, but not limited to all items below. All items referenced below are considered by the Contractor and are included in this Contract.

### **PROJECT SCOPE OF WORK:**

A. PHASE 1: Phase 1 is the remodel and reconfiguration of the crew bathroom (Room 113) and the new ADA compliant crew bathroom (Room 120) that is adjacent to the main crew bathroom. This work will need to be completed to usable point before the start of 2nd phase. Contractor's work includes but not limited to the following scope of work and services:

1. Demolition of all partitions, cabinets, fixtures, tile.

# CONTRACT (SAMPLE ONLY)

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2. Demolition and reconfiguration of floor drains and all associated saw cutting and patch back/testing of self-priming floor drains. Demolition/reconfiguration and installation of all new plumbing sewer and supply lines.
3. Reconfigure wall framing, plumbing, mechanical, electrical etc. between rooms 120 and room 113 to allow for ADA accessibility.
4. Furnish and install new mechanical, electrical, plumbing, fixtures and/or equipment per plan.
5. Furnish and install new waterproofing, tile, fixtures, partitions, shower doors, cabinets, doors, signage.
6. Furnish and install new drywall installation and finishing per plan specifications.
7. Furnish and install new primer and paint per plan specifications

B. PHASE 2: Phase 2 is the remodel of the Battalion Chief's dormitory and office area. Contractor's Work includes but not limited to the following scope of work and services:

1. Demolition of all ceiling fixtures, lights, mechanical, electrical, plumbing, framing, concrete, associated with reconfiguration of dormitory, office, kitchenette and/or hallways.
2. Furnish and install new footings, hold downs, framing, shear panel, rebar and concrete.
3. Furnish and install new mechanical, electrical, plumbing and fire sprinklers.
4. Furnish and install new drywall, paint, drop ceiling system, bracing, fixtures, flooring, cabinets, and countertops.
5. Demolition and removal of window in existing dormitory. All framing, waterproofing, stucco patch, drywall, paint associated with removal and infill of window into new closet area.
6. Kitchenette appliances that are noted and listed in the Plumbing Schedule on plan Sheet A-202, shall be Owner-furnished and Contractor-installed (OFCI).

## PLAN CLARIFICATIONS:

- **Sheet A-202:** The Plumbing Schedule correctly lists the cooktop as electric. However, contradictory note in the Electrical Floor Plan "SAMSUNG 24" 4-BURNER COOKTOP: #NA24T4230FS/AA EXTEND (E) GAS LINE" is hereby deleted along with associated incorrect visual extension of the gas line in the Plumbing Floor Plan from the utility room across the existing bathroom to the kitchenette. The bathroom shall remain untouched in Phase 2 of this project
- **Sheet A-203:** Keynote 07 refers to a C-16 Contractor Plan for sprinkler head locations based on the adjusted configuration of the Battalion Chief Quarters. This is a deferred permit that the Contractor will need to obtain utilizing appropriately licensed individuals submitted for approval to Ventura County Fire Prevention, unless otherwise approved.
- **Sheet A-204:** A missed item on the demolition plan for bathrooms 120 & 113 is addressing the existing mirrors. They shall be removed and provided to the Owner for reinstallation later at this location or another facility.

As above, Fire Station 41 will be in full service during construction. Contractor shall not interfere with any Fire Station operations or staff and shall immediately stop work, which is determined to be interfering with Fire Station operations by either the Ventura County Fire Protection District Command or the Fire District staff. Coordination of work with other trades shall be included as necessary.

Awarded Contractor shall be solely responsible for the means and methods, procedures and all requirements to complete the Work for this "Project". Contractor shall perform all Work in conformance with every law, statute, ordinance, building code, rule, or regulation and requirements of all City, County, State and Federal Agencies and Authorities having jurisdiction over this "Project", including the demolition, removal, transportation and disposal of all removed materials.

# CONTRACT (SAMPLE ONLY)

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The Contractor shall furnish, provide, install, and maintain all required protective materials and coverings, medium, and services to adequately protect all areas of work during course of construction including maintenance of adequate dust control at all times, and thoroughly clean all areas of work at the end of each workday. Coordination of work with other trades shall be included as necessary.

The provisions of the Contract Documents, including County of Ventura Standard Specifications, Agency's Supplementary Standard Specifications and Division 1, Section 01010 shall apply to all Construction Drawings and Technical Specifications of this "Project".

**Recyclable Construction & Demolition Wastes (C & D):** The site of this Project is within the incorporated City of Simi Valley. Contractor shall comply with City of Simi Valley's Construction and Demolition Waste Management Plan requirements.

CONTRACTORS ARE REQUIRED BY LAW TO BE LICENSED AND REGULATED BY THE CONTRACTORS' STATE LICENSE BOARD. ANY QUESTIONS CONCERNING A CONTRACTOR MAY BE REFERRED TO THE REGISTRAR, CONTRACTORS' STATE LICENSE BOARD, P. O. BOX 26000, SACRAMENTO, CALIFORNIA, 95826.

### 3. CONTRACT PRICE:

\_\_\_\_\_ Dollars (\$-----)

The Contract Price is the amount, which Contractor shall accept as full payment for the Work above agreed to be done.

### 4. CONTRACT TIME:

The time for the completion of the Work is sixty-five (65) working days from the Contract starting date, as provided in the Contract Documents and shown in the Notice to Proceed. Schedule allowance and provisions shall be provided for Agency-furnished equipment, services, and materials as applicable.

### 5. LIQUIDATED DAMAGES:

**For delay:** \$1,300.00 per calendar day.

For each consecutive calendar day in excess of the time specified, as adjusted in accordance with section 6-6 of the Ventura County Standard Specifications for completion of the Work, the Contractor shall pay to the Agency, or have withheld from monies due it, the sum of \$1,300.00.

**For inadequate or lack of supervision by Contractor: \$1,035.68 per calendar day.**

As defined in Section 18 of the Modifications to the VCSS, when work is performed at the site between the start date specified in the Notice to Proceed and the acknowledgment of completion of Work specified in Section 6-8, for which the required Contractor's project superintendent is not at the job site or, each working day the Contractor's project manager is not employed by the Contractor, the Contractor shall pay to the Agency, or have withheld from monies due it, the sum of \$1,035.68.

Contractor shall provide to the Fire District the names of the Project Superintendent and Project Manager before Notice to Proceed.

# CONTRACT (SAMPLE ONLY)

IN WITNESS WHEREOF, the parties hereto have executed this Agreement.

Type of Contractor's organization: \_\_\_\_\_

(Corporation/Partnership/Individual)

List names of all persons who have authority to bind firm (at least one name must be listed):

\_\_\_\_\_

IF CORPORATION, FILL OUT FOLLOWING AND EXECUTE

Name of President of Corporation: \_\_\_\_\_

Name of Secretary of Corporation: \_\_\_\_\_

Corporation is organized under the laws of State of: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Signature: \_\_\_\_\_

By: \_\_\_\_\_

Date \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title of Office: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Nos.: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Contractor's State License No.: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

(Corporate Seal)

DIR Registration No.: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

Taxpayer I.D. No.: \_\_\_\_\_

Ventura County Fire Protection District \_\_\_\_\_

By: Fire Chief Dustin Gardner \_\_\_\_\_

Date \_\_\_\_\_

Bid Documents – Contract Sample  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

# CONTRACT (SAMPLE ONLY)

---

## VENTURA COUNTY FIRE PROTECTION DISTRICT

### CONTRACTOR'S CERTIFICATION

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's 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.

Contractor's Name: \_\_\_\_\_

Contractor's Address: \_\_\_\_\_

Signature By: \_\_\_\_\_  
(Signature – Authorized Representative) (Print Name)

Title of Office: \_\_\_\_\_

Date: \_\_\_\_\_

PROJECT: VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW BATHROOM REMODEL

PROJECT ADDRESS: 1910 CHURCH STREET  
SIMI VALLEY, CALIFORNIA 93065



# **Ventura County**

## **Standard Specifications**

### **(VCSS)**

Ventura County Standard Specifications (VCSS)

Bid Documents  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

# VENTURA COUNTY STANDARD SPECIFICATIONS - TABLE OF CONTENTS

## PART 1 - GENERAL PROVISION

### SECTION 0 - SSPWC ADOPTION AND MODIFICATION

<b>0-1</b>	<b>STANDARD SPECIFICATIONS .....</b>	<b>1</b>
<b>0-2</b>	<b>DELETIONS.....</b>	<b>1</b>
<b>0-3</b>	<b>NUMBERING OF SECTIONS.....</b>	<b>1</b>
<b>0-4</b>	<b>ADDITIONS.....</b>	<b>1</b>

### SECTION 1 - TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE AND SYMBOL

<b>1-1</b>	<b>GENERAL .....</b>	<b>2</b>
<b>1-2</b>	<b>TERMS AND DEFINITIONS .....</b>	<b>2</b>
<b>1-3</b>	<b>ABBREVIATIONS .....</b>	<b>4</b>
1-3.1	General. ....	4
1-3.2	Common Usage .....	4
1-3.3	Institutions. ....	7
1-3.4	Building Codes. ....	7
1-3.5	Reference Documents. ....	7
<b>1-4</b>	<b>UNITS OF MEASURE.....</b>	<b>8</b>
1-4.1	General. ....	8
1-4.1.1	Units for Work.....	8
1-4.2	Units of Measure and Their Abbreviations .....	8
<b>1-5</b>	<b>SYMBOLS .....</b>	<b>8</b>

### SECTION 2 - SCOPE AND CONTROL OF WORK

<b>2-1</b>	<b>AWARD AND EXECUTION OF CONTRACT .....</b>	<b>9</b>
2-1.1	Award of Contract .....	9
2-1.2	Notice of Award.....	9
2-1.3	Execution of Contract Documents. ....	9
2-1.4	Failure to Execute Documents. ....	9
2-1.5	Return of Proposal Guarantees. ....	9
<b>2-2</b>	<b>ASSIGNMENT.....</b>	<b>9</b>
<b>2-3</b>	<b>SUBCONTRACTS. ....</b>	<b>10</b>
2-3.1	General. ....	10
2-3.1.1	Use of Debarred Subcontractors Prohibited.....	10
2-3.2	Additional Responsibilities.....	10
2-3.3	Status of Subcontractors.....	10
2-3.3.1	Subcontracts.....	10
2-3.3.2	Contractor Responsible.....	10
2-3.3.3	Specialty Contractors.....	11
<b>2-4</b>	<b>CONTRACT BONDS. ....</b>	<b>11</b>
2-4.1	Bond Forms.....	11
<b>2-5</b>	<b>PLANS AND SPECIFICATIONS .....</b>	<b>11</b>
2-5.1	General. ....	11
2-5.1.1	Specifications Captions. ....	11
2-5.2	Precedence of Contract Documents. ....	12
2-5.3	Shop Drawings, Working Drawings, and Submittals.....	12
2-5.3.1	General. ....	12
2-5.3.2	Working Drawings. ....	12
2-5.3.3	Shop Drawings. ....	13
2-5.3.4	Supporting Information .....	13
2-5.4	Record Drawings.....	13
<b>2-6</b>	<b>WORK TO BE DONE.....</b>	<b>13</b>
2-6.1	Manufacturer's Recommendations. ....	13
2-6.2	Testing of Installed Components.....	13
2-6.3	Training of Agency Personnel .....	13
<b>2-7</b>	<b>SUBSURFACE DATA.....</b>	<b>14</b>
<b>2-8</b>	<b>RIGHTS-OF-WAY.....</b>	<b>14</b>

## VENTURA COUNTY STANDARD SPECIFICATIONS - TABLE OF CONTENTS

<b>2-9</b>	<b>SURVEYING .....</b>	<b>14</b>
2-9.1	Permanent Survey Markers. ....	14
2-9.2	Survey Service. ....	14
2-9.2.1	Open Areas. ....	14
2-9.2.2	Utilities. ....	14
2-9.3	Contractor's Surveys. ....	14
2-9.3.1	Errors in Surveys. ....	14
2-9.4	Line and Grade.....	14
2-9.5	Quantity Surveys. ....	14
2-9.6	Payment for Surveys. ....	15
<b>2-10</b>	<b>AUTHORITY OF BOARD AND ENGINEER.....</b>	<b>15</b>
2-10.1	Decisions in Writing.....	15
<b>2-11</b>	<b>INSPECTION.....</b>	<b>15</b>
2-11.1	Permit Inspections.....	15
2-11.2	Structural Observation.....	15
<b>2-12</b>	<b>SPECIAL NOTICES.....</b>	<b>15</b>
<b>2-13</b>	<b>AGENCY PERSONNEL AND AUTHORITY .....</b>	<b>15</b>
2-13.1	General.....	15
2-13.2	Engineer.....	16
2-13.3	Department Directors (Public Works Agency). ....	16
2-13.4	Project manager.....	17
2-13.5	Inspector. ....	17
2-13.6	Other Agency Personnel and Consultants. ....	17
2-13.6.1	Materials Engineer. ....	17
2-13.6.2	Surveyors & Technicians. ....	17
2-13.6.3	Other Persons.....	17
2-13.6.4	Consultants.....	17
<b><u>SECTION 3 - CHANGES IN WORK</u></b>		
<b>3-1</b>	<b>CHANGES REQUESTED BY THE CONTRACTOR .....</b>	<b>18</b>
3-1.1	General.....	18
3-1.2	Payment for Changes Requested by the Contractor. ....	18
<b>3-2</b>	<b>CHANGES INITIATED BY THE AGENCY .....</b>	<b>18</b>
3-2.1	General.....	18
3-2.2	Payment for Changes Initiated by the Agency. ....	18
3-2.2.1	Contract Unit Prices.....	18
3-2.2.2	Stipulated Unit Prices. ....	18
3-2.2.3	Pricing.....	18
3-2.2.4	Non-Agreed Prices .....	18
<b>3-3</b>	<b>EXTRA WORK.....</b>	<b>18</b>
3-3.1	General.....	18
3-3.2	Payment.....	18
3-3.2.1	General.....	18
3-3.2.2	Basis for Establishing Costs.....	19
3-3.2.3	Markup.....	20
3-3.3	Daily Extra Work Reports by Contractor. ....	20
<b>3-4</b>	<b>CHANGED CONDITIONS.....</b>	<b>21</b>
<b>3-5</b>	<b>DISPUTED WORK .....</b>	<b>21</b>

# VENTURA COUNTY STANDARD SPECIFICATIONS - TABLE OF CONTENTS

## SECTION 4 - CONTROL OF MATERIALS

<b>4-1</b>	<b>MATERIALS AND WORKMANSHIP .....</b>	<b>22</b>
4-1.1	General. ....	22
4-1.1.1	Materials Furnished by Agency. ....	22
4-1.2	Protection of Work and Materials. ....	22
4-1.3	Inspection Requirements .....	22
4-1.3.1	General. ....	22
4-1.3.2	Inspection of Materials Not Locally Produced. ....	22
4-1.3.3	Inspection by the Agency. ....	23
4-1.3.4	Certificates of Compliance. ....	23
4-1.4	Tests of Materials. ....	23
4-1.5	Certification. ....	23
4-1.6	Trade Names or Equals .....	23
4-1.6.1	Compatibility with Design. ....	23
4-1.6.2	Trade Names Listed. ....	24
4-1.7	Weighing Equipment. ....	24
4-1.8	Calibration of Testing Equipment. ....	24

## SECTION 5 - UTILITIES

<b>5-1</b>	<b>LOCATION.....</b>	<b>25</b>
<b>5-2</b>	<b>PROTECTION.....</b>	<b>25</b>
<b>5-3</b>	<b>REMOVAL.....</b>	<b>25</b>
<b>5-4</b>	<b>RELOCATION.....</b>	<b>26</b>
<b>5-5</b>	<b>DELAYS.....</b>	<b>26</b>
5-5.1	Cooperation During Utility Relocation. ....	26
<b>5-6</b>	<b>COOPERATION.....</b>	<b>26</b>

## SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

<b>6-1</b>	<b>CONSTRUCTION SCHEDULE AND COMMENCEMENT OF WORK. ....</b>	<b>27</b>
6-1.1	Beginning of Work.....	28
6-1.2	Starting Work. ....	28
6-1.3	Work Sequence. ....	28
6-1.4	Resources Required. ....	28
<b>6-2</b>	<b>PROSECUTION OF WORK.....</b>	<b>28</b>
<b>6-3</b>	<b>SUSPENSION OF WORK .....</b>	<b>28</b>
6-3.1	General. ....	28
6-3.2	Archaeological and Paleontological Discoveries.....	29
6-3.3	Temporary Suspension of Work. ....	29
<b>6-4</b>	<b>TERMINATION OF CONTRACT FOR DEFAULT.....</b>	<b>29</b>
6-4.1	General .....	29
6-4.2	Notice to Cure.....	29
6-4.3	Notice of Termination for Default.....	29
6-4.4	Responsibilities of the Surety .....	29
6-4.5	Payment.....	30
<b>6-5</b>	<b>TERMINATION OF CONTRACT. ....</b>	<b>30</b>
<b>6-6</b>	<b>DELAYS AND EXTENSIONS OF TIME .....</b>	<b>30</b>
6-6.1	General. ....	30
6-6.2	Extensions of Time. ....	30
6-6.3	Payment for Delays to Contractor. ....	30
6-6.4	Written Notice and Report.....	31
6-6.4.1	Documentation of Delays. ....	31
<b>6-7</b>	<b>TIME OF COMPLETION.....</b>	<b>31</b>
6-7.1	General. ....	31
6-7.2	Working Day.....	31
6-7.2.1	Holidays.....	31
6-7.2.2	Landscape Maintenance Period. ....	32
6-7.3	Contract Time Accounting.....	32
6-7.4	Starting Date for Contract Time and Notice to Proceed.....	32

## VENTURA COUNTY STANDARD SPECIFICATIONS - TABLE OF CONTENTS

<b>6-8</b>	<b>COMPLETION, ACCEPTANCE AND WARRANTY.....</b>	<b>32</b>
6-8.1	Completion and Acceptance.....	32
6-8.2	Warranty and Correction.....	32
6-8.3	No Waiver of Legal Rights.....	33
6-8.4	Landscape Maintenance Period.....	33
6-8.5	Non-complying Work.....	33
6-8.6	Written Warranties.....	33
<b>6-9</b>	<b>LIQUIDATED DAMAGES.....</b>	<b>33</b>
<b>6-10</b>	<b>USE OF IMPROVEMENT DURING CONSTRUCTION.....</b>	<b>33</b>
6-10.1	Use of Improvements - Exceptions.....	33
<b>6-11</b>	<b>NOTICE OF POTENTIAL CLAIM FOR ADDITIONAL COMPENSATION.....</b>	<b>34</b>
<b>6-12</b>	<b>DISPUTES AND CLAIMS; PROCEDURE.....</b>	<b>34</b>
6-12.1	GENERAL.....	34
6-12.2	ADMINISTRATIVE REVIEW.....	35
6-12.3	MEDIATION.....	35
6-12.4	ARBITRATION.....	36
<b>6-13</b>	<b>CONTRACTOR'S WORK HOURS.....</b>	<b>36</b>
6-13.1	Working Hours Limitations.....	36
6-13.2	Regular Work Schedule.....	36
6-13.3	Exceptions.....	36

### SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

<b>7-1</b>	<b>CONTRACTOR'S EQUIPMENT AND FACILITIES.....</b>	<b>37</b>
7-1.1	General.....	37
7-1.2	Temporary Utility Services.....	37
7-1.3	Crushing and Screening Operations.....	37
<b>7-2</b>	<b>LABOR.....</b>	<b>37</b>
7-2.1	General.....	37
7-2.1.1	Special Qualifications.....	37
7-2.2	Laws.....	37
7-2.2.1	Apprentices.....	37
7-2.2.2	Contractors' Duties Concerning Labor Code Compliance.....	37
7-2.3	Payroll Records.....	38
7-2.4	Hours of Labor.....	38
<b>7-3</b>	<b>INDEPENDENCE OF CONTRACTOR, INDEMNIFICATION AND POLLUTION.....</b>	<b>39</b>
7-3.1	Independence of Contractor.....	39
7-3.2	Indemnification and Hold Harmless Clause.....	39
7-3.3	Contamination and Pollution.....	39
<b>7-4</b>	<b>INSURANCE REQUIREMENTS.....</b>	<b>39</b>
7-4.1	Workers' Compensation Insurance.....	39
7-4.1.1	Coverage.....	39
7-4.1.2	Certification.....	39
7-4.2	Commercial General Liability Insurance.....	40
7-4.2.1	Insurance Classes.....	40
7-4.2.2	Coverage Exceptions.....	40
7-4.2.3	Excess Liability Policies.....	40
7-4.3	Commercial Automobile Liability Insurance.....	40
7-4.4	Property Insurance.....	40
7-4.5	Other Insurance Provisions.....	40
7-4.5.1	Insurance Company Qualifications.....	40
7-4.5.2	Primary Coverage.....	40
7-4.5.3	Aggregate Limits Exceeded.....	40
7-4.5.4	Liability in Excess of Limits.....	40
7-4.5.5	Additional Insured Endorsements.....	40
7-4.5.6	Waiver of Subrogation Rights.....	40
7-4.5.7	Cancellation Notice Required.....	41
7-4.5.8	Documentation Required.....	41

## VENTURA COUNTY STANDARD SPECIFICATIONS - TABLE OF CONTENTS

<b>7-5 PERMITS.</b>	<b>41</b>
7-5.1 Highway and Railroad Permits.	41
7-5.2 Grading Ordinance.	41
7-5.2.1 General.	41
7-5.2.2 Permits Required.	41
7-5.2.3 Imported and Exported Material.	41
7-5.2.4 Exemptions from Permit.	41
7-5.3 Building Permit.	42
7-5.3.1 Agency Furnished Permits.	42
7-5.3.2 Contractor Furnished Permits.	42
7-5.4 Coastal Zone Permits.	42
7-5.4.1 Agency Furnished Permits.	42
7-5.4.2 Contractor Furnished Permits.	42
<b>7-6 THE CONTRACTOR'S REPRESENTATIVE.</b>	<b>42</b>
<b>7-7 COOPERATION AND COLLATERAL WORK.</b>	<b>42</b>
<b>7-8 WORK SITE MAINTENANCE.</b>	<b>42</b>
7-8.1 General.	42
7-8.2 Air Pollution Control.	42
7-8.3 Noise Control.	42
7-8.4 Storage of Equipment and Materials.	42
7-8.4.1 General.	42
7-8.4.2 Storage in Public Streets.	42
7-8.5 Sanitary Sewers.	43
7-8.5.1 General.	43
7-8.5.2 Sewage Bypass and Pumping Plan.	43
7-8.5.3 Spill Prevention and Emergency Response Plan.	43
7-8.6 Water Pollution Control.	43
7-8.6.1 Compliance with NPDES General Construction Permit.	44
7-8.6.2 Compliance with NPDES MS4 Permit.	44
7-8.6.3 Plan.	45
7-8.6.4 Measures.	45
7-8.6.5 Monitoring and Reporting.	45
7-8.6.6 Dewatering Activities.	45
7-8.6.7 Payment.	46
7-8.7 Drainage Control.	46
7-8.8 Final Cleaning.	46
<b>7-9 PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS.</b>	<b>47</b>
<b>7-10 PUBLIC CONVENIENCE AND SAFETY.</b>	<b>47</b>
7-10.1 Access.	47
7-10.2 Traffic Control.	47
7-10.3 Haul Roads.	48
7-10.4 Safety.	48
7-10.4.1 Work Site Safety.	48
7-10.4.2 Safety Orders.	48
7-10.4.3 Use of Explosives.	48
7-10.4.4 Hazardous Substances.	49
7-10.4.5 Confined Spaces.	49
7-10.4.5.1 Confined Space Entry Program (CSEP).	49
7-10.4.5.2 Permit-Required Confined Spaces.	49
7-10.5 Security and Protective Devices.	49
7-10.5.1 General.	49
7-10.5.2 Security Fencing.	49
7-10.5.3 Steel Plate Covers.	50
<b>7-11 PATENT FEES OR ROYALTIES.</b>	<b>50</b>
<b>7-12 ADVERTISING.</b>	<b>50</b>
<b>7-13 LAWS TO BE OBSERVED.</b>	<b>50</b>
7-13.1 Mined Material.	50
<b>7-14 ANTITRUST CLAIMS.</b>	<b>50</b>
<b>7-15 RECYCLABLE CONSTRUCTION &amp; DEMOLITION WASTES.</b>	<b>50</b>
<b>7-16 EQUAL EMPLOYMENT OPPORTUNITY.</b>	<b>50</b>
<b>7-17 LOSS OR DAMAGE TO THE WORK.</b>	<b>50</b>
<b>7-18 ACTS OF GOD.</b>	<b>50</b>

# VENTURA COUNTY STANDARD SPECIFICATIONS - TABLE OF CONTENTS

## SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

8-1	GENERAL .....	51
8-2	EQUIPMENT FOR FIELD OFFICES. ....	51

## SECTION 9 - MEASUREMENT AND PAYMENT

9-1	MEASUREMENT OF QUANTITIES FOR UNIT PRICE WORK.....	52
9-1.1	General.....	53
9-1.2	Methods of Measurement. ....	53
9-1.3	Certified Weights.....	53
9-1.4	Units of Measurement. ....	53
9-2	LUMP SUM BID ITEMS.....	53
9-3	PAYMENT .....	53
9-3.1	General.....	53
9-3.2	Partial and Final Payment. ....	53
9-3.2.1	Release of Withheld Contract Funds.....	53
9-3.2.2	Timely Progress Payments.....	54
9-3.3	Delivered Materials.....	55
9-3.4	Mobilization .....	55
9-3.4.1	Scope.....	55
9-3.4.2	Payment.....	56
9-4	TERMINATION OF AGENCY LIABILITY.....	56

## SECTION 10 - DIVERSION, CONTROL AND REMOVAL OF WATER

10-1	DESCRIPTION.....	57
10-2	REQUIREMENTS. ....	57
10-3	DIVERSION AND CONTROL WORKS. ....	57
10-4	PAYMENT.....	57

## PART 2 CONSTRUCTION MATERIALS

### SECTION 200 - ROCK MATERIALS

200-1	ROCK PRODUCTS.....	58
200-1.6	Stone for Riprap .....	58
200-1.6.1A	Alternate Stone for Riprap. ....	58
200-1.6.2	Riprap Size .....	58

### SECTION 206 - MISCELLANEOUS METAL ITEMS

206-3	GRAY IRON AND DUCTILE CASTINGS.....	59
206-3.3.2A	Manhole Frame and Cover Sets.....	59
206-5	METAL RAILINGS. ....	59
206-5.2	Flexible Metal Guard Rail Materials. ....	59
206-5.2A	Flexible Metal Guard Rail Materials; Modification.....	59

### SECTION 210 - PAINT AND PROTECTIVE COATINGS

210-6	STORM DRAIN HARDWARE. ....	59
-------	----------------------------	----

### SECTION 211 - SOIL AND AGGREGATE TESTS

211-6	SIEVE ANALYSIS. ....	60
211-7	Sand Equivalent Test. ....	60
211-8	R-VALUE.....	60
211-9	SPECIFIC GRAVITY AND ABSORPTION.....	60
211-10	LOS ANGELES RATTLER TEST. ....	60
211-11	SOUNDNESS. ....	60
211-12	WET AND DRY LOSS.....	60
211-13	SOLUBILITY. ....	60
211-14	Permeability Test.....	60

# VENTURA COUNTY STANDARD SPECIFICATIONS - TABLE OF CONTENTS

## PART 3 CONSTRUCTION METHODS

### SECTION 301 - TREATED SOILS, SUBGRADE PREPARATION AND PLACEMENT OF BASE MATERIALS

<b>301-1 SUBGRADE PREPARATION .....</b>	<b>61</b>
301-1.3 Relative Compaction .....	61
301-1.3.1 Firm, Hard and Unyielding.....	61
301-1.4 Subgrade Tolerances.....	61
<b>301-2 UNTREATED BASE.....</b>	<b>61</b>
301-2.3 Compacting.....	61
301-2.3.1 Tolerances.....	61

### SECTION 302 - ROADWAY SURFACING

<b>302-5 ASPHALT CONCRETE PAVEMENT .....</b>	<b>61</b>
302-5.1 General .....	61
302-5.1.1 Asphalt Concrete Berms. ....	61
302-5.4 Tack Coat.....	61
302-5.4.1 Fog Seal. ....	61
302-5.9 Measurement and Payment.....	61
302-5.9.1 Measurement and Payment for Asphalt Berm. ....	61
302-5.9.2 Measurement and Payment for Fog Seal, Tack Coat, and Prime Coat.....	61

### SECTION 303 - CONCRETE AND MASONRY CONSTRUCTION

<b>303-5 CONCRETE CURBS, WALKS, GUTTERS, CROSS GUTTERS, ALLEY INTERSECTIONS, .....</b>	<b>62</b>
303-5.1 Requirements.....	62
303-5.1.4 Concrete Substitution. ....	62

### SECTION 306 - UNDERGROUND CONDUIT CONSTRUCTION

<b>306-1 OPEN TRENCH OPERATIONS.....</b>	<b>62</b>
306-1.2 Installation of Pipe .....	62
306-1.2.1 Bedding .....	62
<b>306-1.2.1.1 Bedding Material. ....</b>	<b>62</b>
<b>306-1.2.1.2 Sewer Pipe Bedding. ....</b>	<b>62</b>
<b>306-1.2.1.3 Flexible Pipe Bedding.....</b>	<b>62</b>
<b>306-9 DISINFECTION. ....</b>	<b>63</b>
<b>306-10 WATERWORKS APPURTENANCES.....</b>	<b>63</b>
306-10.1 Valves.....	63
306-10.2 Valve Boxes. ....	63
306-10.3 Thrust Devices. ....	63
306-10.4 Fire Hydrants.....	63
306-10.5 Fire Hydrant Barricades. ....	63

### SECTION 310 - PAINTING

<b>310-5 Painting Various Surfaces .....</b>	<b>64</b>
310-5.6 Painting Traffic Striping, Pavement Markings, and Curb Markings.....	64
310-5.6.8A Application of Paint - Two Coats.....	64



# VENTURA COUNTY STANDARD SPECIFICATIONS - TABLE OF CONTENTS

## PART 4

### SECTION 400 - ALTERNATE ROCK PRODUCTS.

#### ASPHALT CONCRETE, PORTLAND CEMENT CONCRETE AND UNTREATED BASE MATERIAL

<b>400-1. Rock Products.....</b>	<b>65</b>
400-1.1 Requirements.....	65
400-1.1.1 General.....	65
<b>400-3 Portland Cement Concrete.....</b>	<b>65</b>
<b>400-4 Asphalt Concrete.....</b>	<b>65</b>

## APPENDICES

<b>APPENDIX A</b>	<b>ACCORD CERTIFICATE OF LIABILITY INSURANCE .....</b>	<b>66</b>
<b>APPENDIX B-1</b>	<b>CONSTRUCTION ELEMENT VS. TIME CHART FORM .....</b>	<b>67</b>
<b>APPENDIX B-2</b>	<b>WORK COMPLETE VS. TIME CHART FORM .....</b>	<b>68</b>
<b>APPENDIX C-1</b>	<b>CONSTRUCTION ELEMENT VS. TIME CHART SAMPLE .....</b>	<b>69</b>
<b>APPENDIX C-2</b>	<b>WORK COMPLETE VS. TIME CHART SAMPLE.....</b>	<b>70</b>
<b>APPENDIX D</b>	<b>ESCROW AGREEMENT FORM SAMPLE .....</b>	<b>71</b>
<b>APPENDIX E</b>	<b>BLANK .....</b>	<b>75</b>
<b>APPENDIX F</b>	<b>RELEASE ON CONTRACT FORM .....</b>	<b>76</b>
<b>APPENDIX G</b>	<b>PERFORMANCE AND PAYMENT BOND - SAMPLE SHOWING WORDING ..</b>	<b>77</b>

**COUNTY OF VENTURA  
PUBLIC WORKS AGENCY  
STANDARD SPECIFICATIONS  
PART 1 - GENERAL PROVISIONS**

**SECTION 0 - SSPWC ADOPTION AND MODIFICATIONS**

**0-1     STANDARD SPECIFICATIONS**

Except as hereinafter provided or as modified by the Special Provisions, the provisions of Parts 2 through 5 of the 2015 edition of the Standard Specifications for Public Works Construction (referred to as SSPWC), published by BNi Building News, Los Angeles, are part of these Standard Specifications.

**0-2     DELETIONS**

The following portions of SSPWC are hereby deleted: Part 1 and Sections 200-1.6.2, and 301-1.4.

**0-3     NUMBERING OF SECTIONS**

The numbering in these modifications is compatible with the numbering in SSPWC. References to whole sections of SSPWC and these modifications are preceded by the word "Section", references to parts of sections show numbers only, such as "211-5", except at the beginning of a sentence, the word "Section" precedes the number. Standard Special Provisions, if included, are numbered as Sections 901 through 999. The Special Provisions are numbered starting with Section 1000 or higher.

Cross-references contained in SSPWC to sections deleted by 0-2 hereof shall be references to the sections of like number contained herein.

**0-4     ADDITIONS**

The sections that follow, either, replace sections of like number in SSPWC which were deleted in 0-2 above, modify sections of SSPWC, or add material not in SSPWC.

## **SECTION 1 - TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE AND SYMBOLS**

**1-1 GENERAL** Unless otherwise stated, the words directed, required, permitted, ordered, instructed, designated, considered necessary, prescribed, approved, acceptable, satisfactory, or words of like meaning, refer to actions, expressions, and prerogatives of the Engineer.

### **1-2 TERMS AND DEFINITIONS**

**Acceptance**--The formal written acceptance by the Agency of the Work which has been completed in all respects in accordance with the Plans and Specifications and any Modifications thereof.

**Addendum**--Written or graphic instrument issued prior to the opening of Bids which clarifies, corrects or changes the bidding or Contract Documents. The term "Addendum" shall include bulletins and all other types of written notices issued to potential bidders prior to opening of Bids.

**Agency**--The legal entity for which the Work is being performed.

**Agreement**--See Contract.

**Base**--A layer of specified material of planned thickness placed immediately below the pavement or surfacing.

**Bid**--The offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work.

**Bidder**--Any individual, firm, partnership, corporation, or combination thereof, submitting a Bid for the Work, acting directly or through a duly authorized representative.

**Board**--The officer or body constituting the awarding authority of the Agency.

**Bond**--Bid, performance and payment bond or other instrument of security.

**Cash Contract**--A contract financed by means other than special assessments.

**Certificate of Compliance**--A written document signed and submitted by a supplier or manufacturer that certifies that the material or assembled material supplied to the Work site conforms to the requirements of the Contract Documents.

**Change Order**--A written order to the Contractor signed by the Agency directing an addition, deletion or revision in the Work, or an adjustment in the Contract Price or the Contract time issued after the effective date of the Contract. A Change Order may or may not also be signed by the Contractor.

**Code**--The terms Government Code, Labor Code, etc. refer to codes of the State of California.

**Consultant**--A professional engineer, architect, landscape architect or other professional who designed the project or performed other services for the Agency on the project.

**Contract**--The written agreement between the Agency and the Contractor covering the Work.

**Contract Documents**--The Contract, Addenda, notice inviting bids, instruction to bidders; Bid (including documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award) when attached as an exhibit to the Contract, the Bonds, permits from jurisdictional regulatory agencies, Special Provisions, Plans, Standard Plans, Standard Specifications, Reference Specifications, Change Orders and Supplemental Agreements.

**Contractor**--The individual, partnership, corporation, joint venture, or other legal entity having a Contract with the Agency to perform the Work. In the case of work being done under permit issued by the Agency, the Permittee shall be construed to be the Contractor. The term "prime contractor" shall mean Contractor.

**Contract Price**--The total amount of money for which the Contract is awarded.

**Contract Unit Price**--The amount shown in the Bid for a single unit of an item of work.

**County Sealer**--The Sealer of Weights and Measures of the county in which the Contract is let.

**Days**--Days shall mean consecutive calendar days unless otherwise specified.

**Daily Extra Work Reports**--Reports on Agency furnished forms as required by 3-3.

**Disputed Work**--Work in which Agency and Contractor are in disagreement.

**Due Notice**--A written notification, given in due time, of a proposed action where such notification is required by the Contract to be given a specified interval of time (usually 48 hours or two Working Days) prior to the commencement of the contemplated action. Notification may be from Engineer to Contractor or from Contractor to Engineer.

**Electrolier**--Street light assembly complete, including foundation, standard, luminaire arm, luminaire, etc.

## **1-2 DEFINITIONS (Continued)**

- Engineer--The Director of Public Works Agency acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties delegated to them.
- Field Directive--A written communication from the Engineer to the Contractor that does not make any Modification to the Contract Documents. It is used only to answer Contractor's questions and to provide decisions as specified in the Contract Documents.
- Geotextile--Synthetic fiber used in civil engineering applications, serving the primary function of separation and filtration.
- House Connection Sewer--A sewer, within a public street or right of way, proposed to connect any parcel, lot, or part of a lot with a main line sewer.
- House Sewer--A sewer, wholly within private property, proposed to connect any building to a house connection sewer.
- Luminaire--The lamp housing including the optical and socket assemblies (and ballast if so specified).
- Major Bid Item--A single Contract item constituting 10% or more of the original Contract Price.
- Mast Arm--The structural member or bracket, which, when mounted on a Standard, supports the luminaire.
- Modification--Includes Change Orders and Supplemental Agreements. A Modification may only be issued after the effective date of the Contract.
- Notice of Award--The written notice by the Agency to the successful Bidder stating that upon compliance by it with the required conditions, the Agency will execute the Contract.
- Notice to Proceed--A written notice given by the Agency to the Contractor fixing the date on which the Contract time will start.
- Owner--Same meaning as Agency.
- Person--Any individual, firm, association, partnership, corporation, trust, joint venture, or other legal entity.
- Plans--The drawings, profiles, cross sections, Standard Plans, working drawings, shop drawings, and supplemental drawings, or reproductions thereof, approved by the Engineer, which show the location, character, dimensions, or details of the Work.
- Private Contract--Work subject to Agency inspection, control, and approval, involving private funds, not administered by the Agency.
- Prompt--The briefest interval of time required for a considered reply, including time required for approval by a governing body.
- Proposal--See Bid.
- Reference Specifications--Those bulletins, standards, rules, methods of analysis or testing, codes, and specifications of other agencies, engineering societies, or industrial associations referred to in the Contract Documents. These refer to the latest edition, including amendments in effect and published at the time of advertising the project or issuing the permit, unless specifically referred to by edition, volume, or date.
- Roadway--The portion of a street reserved for vehicular use.
- Service Connection--All or any portion of the conduit cable or duct including meter, between a utility distribution line and an individual consumer
- Service Lateral Connection--The interface of the House Connection Sewer with the host pipe.
- Sewer--Any conduit intended for the reception and transfer of sewage and fluid industrial waste.
- Shop Drawings--Drawings showing details of manufactured or assembled products proposed to be incorporated in the Work.
- Special Provisions--Any provisions which supplement or modify the Standard Specifications.
- Specifications--Standard Specifications, Reference Specifications, Standard Special Provisions, Special Provisions, and specifications in Change Orders or Supplemental Agreements between the Contractor and the Board.
- Standard--The shaft or pole used to support street lighting luminaire, traffic signal heads, mast arms, etc.
- Standard Plans--Details of standard structures, devices, or instructions referred to on the Plans or in the Specifications by title or number.
- Standard Special Provisions-- Special Provisions prepared in standardized form numbered in the series 401 through 499.

## 1-2 DEFINITIONS (Continued)

Standard Specifications--Parts 1 through 6 of this document. See Section 0. References to whole sections will be preceded by the word "Section", references to parts of sections will show numbers only, such as "3-2", except at the beginning of a sentence, the word "Section" precedes the number.

State--The State of California.

State Standard Plans--Standard Plans prepared by State of California, Business and Transportation Agency, Department of Transportation.

Stipulated Unit Price--Unit prices established by Agency in the Contract Documents.

Storm Drain--Any conduit and appurtenances intended for the reception and transfer of storm water.

Street--Any road, highway, parkway, freeway, alley, walk or way.

Subbase--A layer of specified material of planned thickness between a base and the subgrade.

Subcontractor--An individual, firm or corporation having a direct contract with the Contractor or with any other Subcontractor for the performance of a part of the Work.

Subgrade--For roadways, that portion of the roadbed on which pavement, surfacing, base, subbase, or a layer of other material is placed. For structures, the soil prepared to support a structure.

Supervision--Supervision, where used to indicate supervision by the Engineer, shall mean the performance of obligations, and the exercise of rights, specifically imposed upon and granted to the Agency in becoming a party to the Contract. Except as specifically stated herein, supervision by the Agency shall not mean active and direct superintendence of details of the Work.

Supplemental Agreement--A written amendment of the Contract Documents signed by both parties.

Surety--See 2-4.

Utility--Tracks, overhead or underground wires, pipelines, conduits, ducts, or structures, sewers or storm drains owned, operated or maintained in or across a public right of way or private easement.

Work--That which is proposed to be constructed or done under the Contract or permit, including the furnishing of all labor, materials, equipment, and services.

Working Day--See 6-7.2 and 6.7.2.1.

Working Drawings--Drawings showing details not shown on the Plans which are required to designed by the Contractor

## 1-3 ABBREVIATIONS

**1-3.1 General.** The abbreviations herein, together with others in general use, are applicable to these Standard Specifications and to all other Contract Documents.

All abbreviations and symbols used on Plans for structural steel construction shall conform to those given by the "Manual of Steel Construction" published by the American Institute of Steel Construction, Inc.

### 1-3.2 Common Usage

<u>Abbreviation</u>	<u>Word or Words</u>	<u>Abbreviation</u>	<u>Word or Words</u>
Aban	Abandon	L	Liters
Aband	Abandoned	Lab	Laboratory
ABS	Acrylonitrile-butadiene-styrene	Lat	Lateral
AC	Asphalt Concrete	LD	Local depression
ACP	Asbestos cement pipe	LED	Light Emitting Diode
ADA	Americans with Disabilities Act of 1990 (Public Law 101-336, 104 Stat. 1990,42 USC 12101-12213 (as amended))	LH	Lamp hole
Alt	Alternate	LL	Live load
AmerStd	American Standard	LOL	Layout line
APC	Air Placed Concrete	Long	Longitudinal
ARAM	Asphalt Rubber Aggregate Membrane	LP	Lamp post
ARHM	Asphalt Rubber Hot Mix	LPS	Low pressure sodium (Light)
AWG	American Wire Gage (non-ferrous wire)	LS	Lump sum
B/W	Back of wall	LTS	Lime treated soil
BC	Beginning of curve	m	Meters
BCR	Beginning of curb return	Maint	Maintenance
Bdry	Boundary	Max	Maximum
BF	Bottom of footing	MC	Medium curing
BM	Bench mark	MCR	Middle of curb return
BMPs	Best Management Practices	Meas	Measure
BVC	Beginning of vertical curve	MH	Manhole, maintenance hole
C&G	Curb & Gutter	Mil Spec	Military specification
C&G	Curb and gutter	Min	Minimum
CAB	Crushed aggregate base	Misc	Miscellaneous

<b><u>Abbreviation</u></b>	<b><u>Word or Words</u></b>	<b><u>Abbreviation</u></b>	<b><u>Word or Words</u></b>
CALOSHA	California Occupational Safety and Health Administration	Mon	Monument
CALTRANS	California Department of Transportation	MSDS	Material Safety Data Sheet
CAP	Corrugated aluminum pipe	Mult	Multiple
CB	Catch Basin	MUTCD	Manual on Uniform Traffic Control Devices
Cb	Curb	MVL	Mercury vapor light
CBP	Catch Basin Connection Pipe	N/A	No applicable
CBR	California Bearing Ratio	NRCP	Nonreinforced concrete pipe
C-C	Center to center	Obs	Obsolete
CCFRPM	Centrifugally Cast Fiberglass Reinforced Plastic Mortar	oc	On center
CCR	California Code of Regulations	OD	Outside diameter
CCTV	Closed Circuit TV	OE	Outer edge
CF	Cubic foot	Opp	Opposite
CF	Curb face	Orig	Original
CFR	Code of Federal Regulations	PAV	Pressure Aging Vessel
CFS	Cubic feet per second	PB	Pull box
CHDPE	Corrugated High Density Polyethylene	PC	Point of curvature
CIP	Cast iron pipe	PCC	Point of compound curvature
CIPP	Cast-in-place pipe	PCC	Portland cement concrete
CIPPC	Cast-in-place Concrete Pipe	PCVC	Point of compound vertical curve
CL	Clearance, center line	PE	Polyethylene
CLF	Chain link fence	PG	Performance Graded
CLSM	Controlled Low Strength Material	PI	Point of intersection
CMB	Crushed miscellaneous base	PL	Property line
CMC	Cement mortar-coated	PLI	Pounds per linear inch
CML	Cement mortar-lined	PMB	Processed miscellaneous base
cms	Cubic meters per second	POC	Point on curve
CO	Cleanout (Sewer)	POT	Point on tangent
Col	Column	PP	Power pole
Conc	Concrete	PRC	Point of reverse curve
Conn	Connection	PRCB	Precast Reinforced Concrete Box
Const	Construct, Construction	PRVC	Point of reverse vertical curve
Coord	Coordinate	PSI	Pounds per square inch
CQS	Cationic Quick-Setting	PT	Point of tangency
CRM	Crumb Rubber Modifier	PVC	Polyvinyl chloride
CRS	Cationic Rapid-Setting	Pvmt	Pavement
CSEP	Confined Space Entry Plan	Pvt R/W	Private right of way
CSP	Corrugated steel pipe	Q	Rate of flow in cms (CFS)
CSPA	Corrugated steel pipe arch	Quad	Quadrangle, Quadrant
CSS	Cationic Slow-Setting	R	Radius or Resistance value
CT	California Test	R&O	Rock and Oil
CTB	Cement treated base	R/W	Right of way
CV	Check valve	RA	Reclaimed Asphalt or Recycling agent
CY	Cubic yard	RAC	Recycled asphalt concrete
D	Depth, Load of pipe	RAP	Reclaimed asphalt pavement
db	Decibels	RBAC	Rubberized asphalt concrete
Dbl	Double	RC	Reinforced concrete or Rapid Curing
DF	Douglas Fir	RCB	Reinforced concrete box
Dia	Diameter	RCE	Registered civil engineer
DIP	Ductile iron pipe	RCP	Reinforced concrete pipe
DL	Dead load	RCV	Remote control valve
DT	Drain tile	Ref	Reference
Dwg	Drawing	Reinf	Reinforced or reinforcement
Dwy Appr	Driveway approach	Res	Reservoir
Dwy	Driveway	RGE	Registered geotechnical engineer
Ea	Each	RPPCC	Reclaimed Plastic Portland Cement Concrete
EC	End of curve	RR	Railroad
ECR	End of curb return	RSE	Registered structural engineer
EF	Each face	RTE	Registered traffic engineer
EG	Edge of gutter	RTFO	Rolling Thin Film Oven
EGL	Energy grade line	RW	Reclaimed Water
EI	Elevation	S	Slope
ELC	Electrolier lighting conduit	S/W	Sidewalk
ELT	Extra long ton of slurry	SC	Slow curing
Eng	Engineer, Engineering	SCCP	Steel cylinder concrete pipe
EP	Edge of pavement	SCNs	Supplementary Cementitious Materials
Esmt	Easement	SD	Storm drain
ETB	Emulsion treated base	SDR	Standard dimension ratio

<b><u>Abbreviation</u></b>	<b><u>Word or Words</u></b>	<b><u>Abbreviation</u></b>	<b><u>Word or Words</u></b>
EVC	End of vertical curve	SE	Sand Equivalent
Exc	Excavation	Sec	Section
Exist or Ex	Existing	SF	Square foot
Exp Jt	Expansion joint	SG	Specific gravity
F & C	Frame and cover	SI	International System of Units (Metric)
F & I	Furnish and install	SLC	Service Lateral Connection
F/W	Face of wall	Spec	Specifications
Fab	Fabricate	SR	Standard ratio
FAS	Flashing arrow sign	SS	Sanitary sewer
FD	Floor drain	SSB	Select sub-base
Fdn	Foundation	SSP	Structural steel plate pipe
Fed Spec	Federal Specification	SSPA	Structural steel plate pipe arch
FG	Finished grade	St Hwy	State highway
FL	Flow line	Sta	Station
FS	Finished surface	Std	Standard
ft - lb	foot – pound	Str Gr	Straight grade
Ftg	footing	Str	Straight
FW	Face of wall	Struc	Structural/Structure
Ga	Gauge	SW	Sidewalk
Galv	Galvanized	SWD	Sidewalk drain
GG	Gap graded	SWPPP	Storm Water Pollution Prevention Plan
GIP	Galvanized iron pipe	SY	Square Yard
GL	Ground line or grade line	T/W	Top of wall
GM	Gas meter	Tan	Tangent
GP	Guy pole	TC	Top of curb
Gr	Grade	TCP	Traffic control plan
Grtg	Grating	Tel	Telephone
GSP	Galvanized steel pipe	TF	Top of footing
H	High or height	Topo	Topography
HB	Hose bib	Tr	Tract
HC	House connection	Trans	Transition
HDPE	High density Polyethylene	TRMAC	Tire rubber modified asphalt concrete
HDWL	Headwall	TS	Traffic signal or transition structure
HGL	Hydraulic grade line	TSC	Traffic signal conduit
Hor, Horiz	Horizontal	TSS	Traffic signal standard
Hp	Horsepower	TTC	Temporary traffic control
HPG	High pressure gas	TW	Top of wall
HPS	High pressure sodium (Light)	Typ	Typical
HRWRA	High Range Water Reducing Admixture	U.S.	United States
Hyd, Hydr	Hydraulic	U.S.C.	United States Code
ID	Inside diameter	USA	Underground Service Alert
Incl	Include, Including	Var	Varies, Variable
Insp	Inspection	VB	Valve box
Inv	Invert	VC	Vertical curve
IP	Iron pipe	VCP	Vitrified clay pipe
J	Joules	Vert	Vertical
JC	Junction chamber	Vol	Volume
Jct	Junction	VTCSH	Vehicle Traffic Controls Signal Heads
JS	Junction structure	W	Width or Wider
Jt	Joint	WATCH	Work Area Traffic Control Handbook
kg	Kilograms	WI	Wrought iron
kPa	KiloPascals	WM	Water meter
L	Length	WPJ	Weakened plane joint
		WTAT	Wet Track Abrasion Test
		X Conn	Cross connection
		x (as in 2x4)	by
		X-Sec	Cross section

### 1-3.3 Institutions.

<u>Abbreviation</u>	<u>Word or Words</u>
AAN .....	American Association of Nurserymen
AASHTO .....	American Association of State Highway and Transportation Officials
ACI .....	American Concrete Institute
AGC .....	Associated General Contractors of America
AISC .....	American Institute of Steel Construction
ANSI .....	American National Standards Institute
API .....	American Petroleum Institute
APWA .....	American Public Works Association
AREA .....	American Railway Engineering Association
ASHRAE .....	American Society of Heating, Refrigeration and Air-Conditioning Engineers
ASME .....	American Society of Mechanical Engineers
ASTM .....	American Society for Testing and Materials
AWPA .....	American Wood Preserver's Association
AWS .....	American Welding Society
AWWA .....	American Water Works Association
CBSC .....	California Building Standards Commission
CRSI .....	Concrete Reinforcing Steel Institute
EIA .....	Electronic Industries Association
EPA .....	Environmental Protection Agency
ETL .....	Electrical Testing Laboratories
FCC .....	Federal Communications Commission
IAPMO .....	International Association of Plumbing and Mechanical Officials
ICC .....	International Code Council
IEEE .....	Institute of Electrical and Electronics Engineers
IMSA .....	International Municipal Signal Association
ITE .....	Institute of Traffic Engineers
NEMA .....	National Electrical Manufacturers Association
NFPA .....	National Fire Protection Association
NOAA .....	National Oceanic and Atmospheric Administration (Department of Commerce)
RUS .....	Rural Utility Service
UL .....	Underwriters' Laboratories, Inc.
USGS .....	United State Geological Survey
WFCB .....	Western Fire Chiefs Association

**1-3.4 Building Codes.** The Ventura County Building Code (VCBC) and Ventura County Fire Code (VCFC) are applicable to the Work. VCBC and VCFC adopt by reference a number of uniform and national codes. Where such codes are referenced directly in the Specifications, such references shall be to the VCBC or VCFC which adopt and modify certain provisions in the referenced codes.

<u>Abbreviation</u>	<u>Code</u>	<u>Publisher</u>
CBC .....	California Building Code .....	CBSC
DBC .....	Uniform Code for Abatement of Dangerous Building .....	ICC
UBC .....	Uniform Building Code .....	ICC
UFC .....	Uniform Fire Code .....	ICC and WFCB
UHC .....	Uniform Housing Code .....	ICC
UMC .....	Uniform Mechanical Code .....	IAPMO
UPC .....	Uniform Plumbing Code .....	IAPMO
NEC .....	National Electrical Code .....	NFPA

### 1-3.5 Reference Documents.

<u>Abbreviation</u>	<u>Document</u>
HDM	Highway Design Manual, State of California, Department of Transportation, Latest Edition
MUTCD	Manual on Uniform Traffic Control Devices
SSP	Standard Plans, State of California, Department of Transportation, latest edition
SPPWC	Standard Plans for Public Works Construction, Latest edition, published by BNi Building News, Los Angeles,
SSPWC	Standard Specifications for Public Works Construction, (See Section 0-1)
SSS	Standard Specifications, State of California, Department of Transportation, latest edition
VCSS	Ventura County Standard Specifications (Division 1, Sections 0 through 10, of which this section is a part)



## 1-4 UNITS OF MEASURE

**1-4.1 General.** The International System of Units, also referred to as SI or the metric system, is the principal measurement system in these Specifications and shall be used for construction, unless otherwise stated in the Contract Documents. U. S. Standard Measure, also called U. S. Customary System, are included in parenthesis. SI units and U. S. Standard Measure in parenthesis may or may not be exactly equivalent. If U. S. Standard Measures are specified for use in the Contract Documents, then all values used for construction shall be U. S. Standard Measures shown in parentheses. However, certain material Specifications and test requirements contained herein use SI units specifically and conversions to U. S. Measures have not been included in these circumstances. When U. S. Standard Measures are not included in parentheses, the SI units shall control.

Reference is also made to ASTM E 380 for definitions of various units of the SI system and a more extensive set of conversion factors.

**1-4.1.1 Units for Work.** Where U. S. Standard Measure units are shown on the Plans or are specified, U. S. Standard Measure shall be used for the Work.

### 1-4.2 Units of Measure, Equivalents and Abbreviations

One U.S. Customary Unit	(abbreviation)	Is Equal To	#	SI Unit
mil (=0.001 in)		25.4	micrometers	( $\mu\text{m}$ )
inch	(in)	25.4	millimeter	(mm)
inch	(in)	2.54	centimeter	(cm)
foot	(ft)	0.3048	meter	(m)
yard	(yd)	0.9144	meter	(m)
mile		1.6093	kilometer	(km)
square foot	(ft <sup>2</sup> )	0.0929	square meter	(m <sup>2</sup> )
square yard	(yd <sup>2</sup> )	0.8361	square meter	(m <sup>2</sup> )
cubic foot	(ft <sup>3</sup> )	0.0283	cubic meter	(m <sup>3</sup> )
cubic yard	(yd <sup>3</sup> )	0.7646	cubic meter	(m <sup>3</sup> )
acre (=43,560 ft <sup>2</sup> )		0.4047	hectare (1ha=10,000m <sup>2</sup> )	(ha)
gallon	(gal)	3.7854	Liter	(L)
fluid ounce	(fl. oz.)	29.5735	milliliter	(mL)
pound mass (avoirdupois)	(lbs)	0.4536	kilogram	(kg)
ounce mass	(oz)	0.02835	kilogram	(kg)
ounce mass	(oz)	28.35	grams	(g)
Ton (=2000 lb avoirdupois)		0.9072	Tonne (1 Tonne = 1000 kg)	
Poise		0.10	Pascal-second	(Pa-s)
centistoke	(cs)	1.00	square millimeter/sec.	(mm <sup>2</sup> /s)
pound force	(lbf)	4.4482	Newton	(N)
pound per square inch	(psi)	6.8948	Kilopascal	(kPa)
pound force per foot	(lbf/ft)	14.594	Newton per meter	(N/M)
foot-pound force	(ft-lbf)	1.3558	Joules	(J)
foot-pound force per second	([ft-lbf]/s)	1.3558	Watt	(W)
part per million	(ppm)	1.00	milligram/liter	(mg/L)
Degree Fahrenheit	(°F)	0.5555	Degree Celsius	(°C)

Temperature: Celsius to Fahrenheit	Temperature: Fahrenheit to Celsius
Temperature °F = (1.8 x °C) + 32	Temperature °C = (°F - 32) / 1.8

SI Units Used in Both Systems		
Ampere (A)	second (s)	Candela (cd)
Volt (V)	decibel (db)	Lumen (lm)

Common Metric Prefixes			
kilo (k)	10 <sup>3</sup>	milli (m)	10 <sup>-3</sup>
centi (c)	10 <sup>-2</sup>	micro ( $\mu$ )	10 <sup>-6</sup>
		nano (n)	10 <sup>-9</sup>
		pico (p)	10 <sup>-12</sup>

## 1-5 SYMBOLS

° Degree	$\overline{\text{P}}$ Property line	% Percent
' Feet or minutes	$\overline{\text{S}}$ Survey line or station line	# Number
" Inches or seconds	$\overline{\text{C}}$ Center line	/ per or of (between words)
$\Delta$ Delta, the central angle or angle between tangents		$\angle$ Angle

## SECTION 2 - SCOPE AND CONTROL OF WORK

### 2-1 AWARD AND EXECUTION OF CONTRACT

**2-1.1 Award of Contract.** The right is reserved to waive minor irregularities in the proposals and to reject any or all proposals. The award of the Contract, if it be awarded, will be to the lowest responsive, responsible Bidder, determined as provided on the Proposal Form, whose Proposal complies with all the requirements prescribed. Such award, if made, will be made within the number of Days stated in the Proposal form. If the lowest responsible Bidder refuses or fails to execute the Contract, the Agency may, within 45 additional Days, consider the next lowest Bidder to be the lowest responsive, responsible Bidder. The periods of time specified above within which the award of Contract may be made shall be subject to extension for such further period as may be agreed upon in writing by the Bidder concerned. If the Bidder's bid guarantee was in the form of a bid bond, the Bidder shall also submit a statement from the Surety that the bond has been extended for the same period.

Proposals not accompanied by a properly executed Noncollusion Affidavit required by Public Contract Code Section 7106 will be considered nonresponsive and will not be considered for award.

All bids will be compared on the basis of the quantities, amounts and unit prices, or lump sums, as shown on the Bid Proposal.

Before award, the Bidder may be required to furnish acceptable evidence of adequate capability, equipment and financial resources to adequately perform the Work. Bidders found not to be so qualified may have their bids rejected. If reasonable cause exists to believe collusion exists among Bidders, or that prices Bid are unbalanced between Bid items, any or all proposals may be rejected.

Award will not be made to a Bidder who is listed by the State Labor Commissioner as ineligible to bid, work on, or be awarded public works projects.

**2-1.2 Notice of Award.** Within one Day after award of Contract by the Board, the Bidder to whom Contract is awarded will be notified of award by email and telephone, or if no contact is made by telephone, then by mail. Within three business days after award of Contract, a Notice of Award will be sent, transmitting the Contract Documents to such Bidder for execution. If telephone contact is made, the Bidder may request that the Contract Documents be held in Agency's office to be picked up.

**2-1.3 Execution of Contract Documents.** On receipt of the Contract Documents, the Bidder shall promptly obtain the required insurance coverage, certificates of insurance, power-of-attorney and Contract bonds, execute the Contract, and transmit all required documents to the Agency.

**2-1.4 Failure to Execute Documents.** Should the Bidder fail to furnish Agency all required documents, properly executed, prior to the starting day of the Contract time computed as provided in 6-7.4 and stated in the Notice of Award, Agency may thereafter declare the Bidder to be in default and its Proposal guarantee forfeited.

**2-1.5 Return of Proposal Guarantees.** Within 10 Days after the award of the Contract, Agency will return the Proposal guarantees, other than Bidder's bonds, accompanying such of the proposals as are not to be further considered in making the award. The low and second Bidder's Proposal guarantee will be held until the Contract has been executed, after which all Proposal guarantees, except Bidders' bonds and any guarantees which have been forfeited, will be returned to the respective Bidders whose proposals they accompany.

**2-2 ASSIGNMENT.** No Contract or portion thereof may be assigned without consent of the Board except that the Contractor may assign money due or which will accrue to it under the Contract. If given written notice, such assignment will be recognized by the Board to the extent permitted by law, but any assignment of money shall be subject to all proper withholdings in favor of the Agency and to all deductions provided for in the Contract. All money withheld, whether assigned or not, shall be subject to being used by the Agency for completion of the Work, should the Contractor be in default.

## **2-3 SUBCONTRACTS.**

**2-3.1 General.** Each Bidder shall comply with the Chapter of the Public Contract Code including Sections 4100 through 4113. The following excerpts or summaries of some of the requirements of that Chapter are included below for information.

The Bidder shall set forth in the Bid, as provided in 4104:

"(a) (1) The name, the location of the place of business, and the California contractor license number of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement, or a subcontractor licensed by the State of California who, under subcontract to the prime contractor, specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the plans and specifications, in an amount in excess of one-half of 1 percent of the prime contractor's total bid or, in the case of bids or offers for the construction of streets or highways, including bridges, in excess of one-half of 1 percent of the prime contractor's total bid or ten thousand dollars (\$10,000), whichever is greater.

(2) An inadvertent error in listing the California contractor license number provided pursuant to paragraph (1) shall not be grounds for filing a bid protest or grounds for considering the bid nonresponsive if the corrected contractor's license number is submitted to the public entity by the prime contractor within 24 hours after the bid opening and provided the corrected contractor's license number corresponds to the submitted name and location for that subcontractor."

If the Contractor fails to specify a Subcontractor, or specifies more than one Subcontractor for the same portion of the Work to be performed under the Contract (in excess of one-half of 1 percent of the Contractor's total bid), the Contractor shall be qualified to perform that portion itself, and shall perform that portion itself except as otherwise provided in the Code.

Except as provided in Section 4107, no prime contractor, whose Bid is accepted, shall substitute any person or Subcontractor in place of the Subcontractor listed in the original bid other than for causes and by procedures established in Section 4107.5 which provides procedures to correct a clerical error in the listing of a Subcontractor.

Section 4110 provides that a Contractor violating any of the provisions of the Chapter violates the Contract and the Board may exercise the option either to cancel the Contract or assess the Contractor a penalty in an amount of not more than 10 percent of the subcontract involved, after a public hearing.

**2-3.1.1 Use of Debarred Subcontractors Prohibited.** The Contractor is prohibited from performing work using a Subcontractor who is listed by the State Labor Commissioner as ineligible to work on public works projects.

**2-3.2 Additional Responsibilities.** The Contractor shall give personal attention to the fulfillment of the Contract and shall keep the Work under its control.

Except where the required Contractor's License Class is "B", the Contractor shall perform, with its own organization, Contract work amounting to at least 50 percent of the Contract Price except that any designated "Specialty Items" may be performed by subcontract and the amount of any such "Specialty Items" so performed may be deducted from the Contract Price before computing the amount required to be performed by the Contractor with its own organization. "Specialty Items" will be identified by the Agency in the Bid or Proposal with an "[S]". Where an entire item is subcontracted, the value of work subcontracted will be based on the Contract Unit Price. This will be determined from information submitted by the Contractor, and subject to approval by the Engineer.

Before the work of any Subcontractor is started, the Contractor shall submit to the Engineer for approval a written statement showing the work to be subcontracted giving the name, contractor license number, registration with the Department of Industrial Relations, and business of each Subcontractor and description and value of each portion of work to be subcontracted.

**2-3.3 Status of Subcontractors.** Subcontractors shall be considered employees of the Contractor, and the Contractor shall be responsible for their work.

**2-3.3.1 Subcontracts.** The Contractor shall incorporate into all subcontracts, and the Subcontractor shall incorporate into all lower tier subcontracts, all of the Plans and Specifications which are part of the Contract between the Contractor and the Agency.

**2-3.3.2 Contractor Responsible.** The Contractor is responsible for properly performing and completing all Work required by the Contract whether or not it employs subcontractors for certain portions of the Work. It shall coordinate the sequence and timing of its efforts and that of its subcontractors to insure the proper and timely completion of the Work.

**2-3.3.3 Specialty Contractors.** Where a specialty Contractor's license is required by law or by the Specifications in order to perform certain portions of the Work, the Contractor may perform such portion with its own forces if it holds the proper license. Otherwise, it shall employ a properly licensed subcontractor to perform that portion of the Work. Such requirement to employ a subcontractor does not modify the other requirements of 2-3.

**2-4 CONTRACT BONDS.** Before execution of the Contract by the Agency, the Bidder shall file surety bonds with the Agency to be approved by the Board in the amounts and for the purposes noted below. Bonds issued by a Surety who is listed in the latest version of U.S. Department of Treasury Circular 570, who is authorized to issue bonds in California, and whose bonding limitation shown in said circular is sufficient to provide bonds in the amount required by the Contract shall be deemed to be approved unless specifically rejected by the Agency. Bonds from all other sureties shall be accompanied by all of the documents enumerated in Code of Civil Procedure 995.660(a). The Bidder shall pay all bond premiums, costs, and incidentals.

Each bond shall incorporate, by reference, the Contract and be signed by both the Bidder and Surety and the signature of the authorized agent of the Surety shall be notarized.

The Bidder shall provide two good and sufficient surety bonds. The "Payment Bond" (Material and Labor Bond) shall be for not less than 100 percent of the Contract Price, to satisfy claims of material suppliers and mechanics and laborers employed by it on the Work. The bond shall be maintained by the Contractor in full force and effect until the Work is accepted by the Agency, and until all claims for materials and labor are paid, and shall otherwise comply with the Civil Code.

The "Performance Bond" shall be for 100 percent of the Contract Price to guaranty faithful performance of all Work, within the time prescribed, in a manner satisfactory to the Agency, and that all materials and workmanship will be free from original or developed defects. The bond must remain in effect until the end of the warranty period set forth in 6.8-2.

Should any bond become insufficient, the Contractor shall renew the bond within 10 Days after receiving notice from the Agency.

Should any Surety at any time be unsatisfactory to the Board, notice will be given the Contractor to that effect. No further payments shall be deemed due or will be made under the Contract until a new Surety shall qualify and be accepted by the Board.

Changes in the Work, or extensions of time, made pursuant to the Contract, shall in no way release the Contractor or Surety from its obligations. Notice of such changes or extensions shall be waived by the Surety.

**2-4.1 Bond Forms.** Bonds shall be on forms furnished by Agency.

## **2-5 PLANS AND SPECIFICATIONS**

**2-5.1 General.** The Contractor shall keep at the work site a copy of the Plans and Specifications, to which the Engineer shall have access at all times.

The Plans, Specifications, and other Contract Documents shall govern the Work. The Contract Documents are intended to be complementary and cooperative. Anything specified in the Specifications and not shown on the Plans, or shown on the Plans and not specified in the Specifications, shall be as though shown or specified in both.

The Plans shall be supplemented by such working drawings and shop drawings as are necessary to adequately control the Work.

The Contractor shall ascertain the existence of any conditions affecting the cost of the Work through reasonable examination of the work site prior to submitting the Bid..

Existing improvements visible at the work site, for which no specific disposition is made on the Plans, but which interfere with the completion of the Work, shall be removed and disposed of by the Contractor.

The Contractor shall, upon discovering any error or omission in the Plans or Specifications, immediately call it to the attention of the Engineer.

**2-5.1.1 Specifications Captions.** Captions accompanying specification parts, sections and paragraphs are for convenience of reference only and do not limit the content of such part, section or paragraph.

The division of the Plans into parts and the division of the Specifications into divisions and sections are for the ease of reference only and does not imply the division of work between trades or subcontractors.

**2-5.2 Precedence of Contract Documents.** If there is a conflict between any of the Contract Documents, the document highest in precedence shall control. The precedence shall be as follows:

- 1) Permits issued by jurisdictional regulatory agencies.
- 2) Change Orders and Supplemental Agreements; whichever occurs last.
- 3) Contract/Agreement.
- 4) Addenda.
- 5) Bid/Proposal.
- 6) Special Provisions.
- 7) Plans.
- 8) Standard Plans.
- 9) Standard Specifications.
- 10) Reference Specifications.

Detail drawings shall take precedence over general drawings.

**2-5.3 Shop Drawings, Working Drawings, and Submittals.**

**2-5.3.1 General.** Submittals shall be provided, at the Contractor's expense, as required in 2-5.3.2, 2-5.3.3 and 2-5.3.4, when required by the Plans or Special Provisions, or when requested by the Engineer.

Materials shall neither be furnished nor fabricated, nor shall any work for which submittals are required be performed, before the required submittals have been reviewed and accepted by the Engineer. Neither review nor acceptance of submittals by the Engineer shall relieve the Contractor from responsibility for errors, omissions, or deviations from the Contract Documents, unless such deviations were specifically called to the attention of the Engineer in the letter of transmittal. The Contractor shall be responsible for the correctness of the submittals.

The Contractor shall allow a minimum of 20 working days for review of submittals unless otherwise specified in the Special Provisions. Each submittal shall be accompanied by a letter of transmittal.

**2-5.3.2 Working Drawings.** Working drawings shall be of a size and scale to clearly show all necessary details.

Six copies and one reproducible shall be submitted. If no revisions are required, 3 of the copies will be returned to the Contractor. If revisions are required, the Engineer will return one copy along with the reproducible for resubmission. Upon acceptance, the Engineer will return 2 of the copies to the Contractor and retain the remaining copies and the reproducible.

Working drawings are required in the following subsections:

**TABLE 2-5.3.2 (A)**

Item	Section Number	Title	Subject
1	7-8.5.2	Sanitary Sewers	Sewage Bypass and Pumping
2	7.8.6.3	Water Pollution Control	Storm Water Pollution Prevention Plan
3	7-8.6.6	Water Pollution Control	Dewatering Plan
4	7-10.2.2	Work Area Traffic Control	Traffic Control Plan
5	7-10.4..2.2	Safety	Trench Shoring
6	207-8.4	Joints	Vitrified Clay Pipe
7	207-10.2.1	General	Fabricated Steel Pipe
8	300-3.2	Cofferdams	Structure Excavation & Backfill
9	303-1.6.1	General	Falsework
10	303-1.7.1	General	Placing Reinforcement
11	303-3.1	General	Prestressed Concrete Construction
12	304-1.1.1	Shop Drawings	Structural Steel
13	304-1.1.2	Falsework Plans	Structural Steel
14	304-2.1	General	Metal Hand Railings
15	306-2.1	General	Jacking Operations
16	306-3.1	General	Tunneling Operations
17	306-3.4	Tunnel Supports	Tunneling Operations
18	306-6	Remodeling Existing Sewer Facilities	Polyethylene Liner Installation
19	306-8	Microtunneling	Microtunneling Operations

Working drawings listed above as Items 4, 5, 8, 9, 11, 12, 13, 15 and 18 shall be prepared by a Civil or Structural Engineer registered by the State of California.

**2-5.3.3 Shop Drawings.** Shop drawings are drawings showing details of manufactured or assembled products proposed to be incorporated into the Work. Shop drawings required shall be as specified in the Special Provisions.

**2-5.3.4 Supporting Information.** Supporting information is information required by the Specifications for the purposes of administration of the Contract, analysis for verification of conformance with the Specifications, the operation and maintenance of a manufactured product or system to be constructed as part of the Work, and other information as may be required by the Engineer. Six copies of the supporting information shall be submitted to the Engineer prior to the start of the Work unless otherwise specified in the Special Provisions or directed by the Engineer. Supporting information for systems shall be bound together and include all manufactured items for the system. If resubmittal is not required, three copies will be returned to the Contractor. Supporting information shall consist of the following and is required unless otherwise specified in the Special Provisions:

- 1) List of Subcontractors per 2-3.2.
- 2) List of Materials per 4-1.4.
- 3) Certificates of Compliance per 4-1.5.
- 4) Construction Schedule per 6-1.
- 5) Spill Prevention and Emergency Response Plan per 7-8.5.3
- 6) Confined Space Entry Program per 7-10.4.5.1
- 7) Lean concrete base mix designs per 200-4
- 8) Concrete mix designs per 201-1.1.
- 9) Asphalt concrete mix designs per 203-6.1.
- 10) Pipeline layout diagrams per 207-2.1
- 11) Equipment and materials list per 307-1
- 12) Controller cabinet wiring diagrams per 307-17.2.2
- 13) Data, including, but not limited to, catalog sheets, manufacturer's brochures, technical bulletins, specifications, diagrams, product samples, and other information necessary to describe a system, product or item. This information is required for irrigation systems, street lighting systems, and traffic signals, and may also be required for any product, manufactured item, or system.

**2-5.4 Record Drawings.** The Contractor shall prepare and maintain a set of prints in the Engineer's Field Office on which the locations and description of all plumbing, mechanical, and electrical facilities, which were not detailed fully on the Plans, are marked in colored pencil. Such prints shall also indicate any authorized changes from the original Plans. Such prints shall be furnished to the Engineer before final Acceptance of the Work.

**2-6 WORK TO BE DONE.** The Contractor shall perform all work necessary to complete the Contract in a satisfactory manner. Unless otherwise provided, it shall furnish all materials, equipment, tools, labor and incidentals necessary to complete the Work.

All work under the Contract shall be performed in accordance with the highest standards prevailing in the trades unless otherwise specified on the Plans or in the Special Provisions. Unless otherwise specified, it is the intent that the Contractor will construct a complete facility ready for use.

**2-6.1 Manufacturer's Recommendations.** Where the manufacturer of any materials or equipment provides written recommendations or instructions for its use or method of installation (including labels, tags, manuals, or trade literature), such recommendations or instructions shall be complied with except where the Contract Documents specifically require deviations.

**2-6.2 Testing of Installed Components.** Where the specifications provide that any component of the Work is to be tested, calibrated or adjusted during or after installation, such testing shall be performed by a qualified firm, approved by the Engineer. The firm performing the testing or calibration shall be employed by and paid for by the Contractor.

**2-6.3 Training of Agency Personnel.** Where the specifications provide for training of Agency personnel in the use or maintenance of any component of the Work, the Contractor shall arrange for and pay for competent personnel to perform the training. Contractor shall schedule the training with the Engineer.

**2-7 SUBSURFACE DATA.** All soil and test hole data, groundwater elevations, and soil analyses shown on the Plans or included in the Specifications apply only at the location of the test holes and to the depths shown. Soil test reports for test holes which have been drilled are available for inspection at the office of the Engineer. Additional subsurface exploration may be performed by Bidders or the Contractor at their own expense. The indicated groundwater elevation is that existing at the date specified in the data. It is the Contractor's responsibility to determine and allow for the groundwater elevation on the date the Work is performed. A difference in groundwater elevation between what is shown in soil boring logs and what is actually encountered during construction will not be considered as a basis for Extra Work per 3-3.

Opinions, recommendations or conclusions contained in any soils report, soil boring logs, subsurface materials investigation, geological report or other similar studies, tests or reports, prepared for the Agency, are not a part of the Contract. Contractor shall be responsible for forming its own opinions and conclusions from the facts set forth in such reports.

**2-8 RIGHTS-OF-WAY.** Rights-of-way, easements or rights-of-entry for the Work will be provided by the Agency. Unless otherwise provided, the Contractor shall make arrangements, pay for, and assume all responsibility for acquiring, using, and disposing of additional work areas and facilities temporarily required. The Contractor shall indemnify and hold the Agency harmless from all claims for damages caused by such actions.

## **2-9 SURVEYING**

**2-9.1 Permanent Survey Markers.** The Contractor shall notify the Engineer at least 7 Days before starting work to allow for the preservation of survey monuments, lot stakes (tagged), and bench marks. The Engineer, or the owner at its cost, shall file a Corner Record Form referencing survey monuments subject to disturbance in the Office of the County Surveyor prior to the start of construction and also prior to the completion of construction for the replacement of survey monuments. The Contractor shall not disturb survey monuments, lot stakes (tagged), or bench marks without the consent of the Engineer or the owner on Private Contracts. The Contractor shall bear the expense of replacing any that may be disturbed without permission. Replacement shall be done only under the direction of the Engineer by a Licensed Land Surveyor or a Registered Civil Engineer authorized to practice land surveying within the state.

When a change is made in the finished elevation of the pavement of any roadway in which a permanent survey monument is located, the Contractor shall adjust the monument cover to the new grade within 7 Days of finished paving unless otherwise specified.

**2-9.2 Survey Service.** The Engineer will set only the horizontal and vertical control survey points shown on the Plans. These will be set prior to the commencement of construction. The Contractor shall preserve these points as well as any other surveys established by the Engineer for use by the Contractor for the duration of their usefulness. If any survey points established by Engineer are lost or disturbed and need to be replaced, such replacement shall be by the Engineer at the expense of the Contractor. The Contractor shall employ engineers or surveyors to perform adequate surveys and staking necessary to construct the Work to the lines, elevations and grades shown on the Plans and for the Engineer's use in checking such work. Copies of the field notes or diagrams used in setting stakes shall be promptly furnished to the Engineer.

**2-9.2.1 Open Areas.** Where dimensions are not given on the Plans for parking lots, landscaped areas or graded areas, distances shall be scaled. Unless otherwise indicated, straight grades and smooth vertical curves shall be set between indicated elevations. Finished surfaces shall be sloped to drain in order to eliminate ponding of water.

**2-9.2.2 Utilities.** Section 5-5.1 requires the Contractor's cooperation during the relocation of utilities, which may require the setting of lines and grades when needed by utility owners performing relocations.

**2-9.3 Contractor's Surveys.** Surveying by private engineers and surveyors on the Work shall conform to the quality and practice required by the Engineer.

**2-9.3.1 Errors in Surveys.** The Contractor is responsible for the accuracy of all surveys except those performed by the Engineer. To assure that a survey point set by the Engineer has not been disturbed since it was set and that it was accurately set, all surveys by the Contractor shall be based on at least two survey points set by the Engineer or by other governmental surveys, in accordance with good survey practice. Should discrepancies be found between such points, the Engineer shall be notified and construction shall not proceed until the discrepancy has been resolved.

**2-9.4 Line and Grade.** All Work upon completion shall conform to the lines, elevations, and grades shown on the Plans.

**2-9.5 Quantity Surveys.** The Engineer will perform all quantity surveys for payment purposes, however, in performing such quantity surveys, it may make use of surveys performed by the Contractor.

**2-9.6 Payment for Surveys.** Payment for performing all of the surveying and staking as required by the Specifications and such additional surveying and staking as required by the Contractor will be made at the lump sum price set forth in the Proposal and shall be full compensation for furnishing all labor, equipment, instruments and materials necessary to perform the Work. If no bid item for surveying is included in the Proposal, the cost of surveying shall be included in the prices bid for other applicable items of work.

**2-10 AUTHORITY OF BOARD AND ENGINEER.** The Board has the final authority in all matters affecting the Work. Within the scope of the Contract, the Engineer has the authority to enforce compliance with the Plans and Specifications. The Contractor shall promptly comply with instructions from the Engineer or its authorized representative.

On all questions relating to quantities, the acceptability of material, equipment, or work, the execution, progress or sequence of work, and the interpretation of Specifications or drawings, the decision of the Engineer is final and binding, and shall be precedent to any payment under the Contract, unless otherwise ordered by the Board.

**2-10.1 Decisions in Writing.** Any and all decisions of the Engineer interpreting Specifications or drawings shall be in writing. Any purported "interpretation" which is not in writing shall not be binding upon the Agency and should not be relied upon by the Contractor.

#### **2-11 INSPECTION**

The Work is subject to inspection and approval of the Engineer. The Contractor shall notify the Engineer before noon of the working day before inspection is required. Work shall be done only in the presence of the Engineer, unless otherwise authorized. Any work done without proper inspection will be subject to rejection. The Engineer and any authorized representatives shall at all times have access to the Work during its construction at shops and yards as well as the Work site. The Contractor shall provide every reasonable facility for ascertaining that the materials and workmanship are in accordance with these specifications. Inspection of the Work shall not relieve the Contractor of the obligation to fulfill all conditions of the Contract.

**2-11.1 Permit Inspections.** The Contractor shall arrange for code compliance inspections by all agencies issuing permits for the Work. The Work shall not continue beyond mandatory inspection points without clearance from the controlling agency. Each agency involved shall be notified in accordance with the code they enforce or in accordance with their standard operating procedures. No extensions of time will be granted for delays occasioned by such inspections except where, through no fault of the Contractor, the inspection is delayed more than one Day beyond normal response time after proper notification has been given. It shall be the Contractor's responsibility to see that any required inspection record card is signed off before proceeding with the next phase of the Work and completely signed off on completion of the Work.

**2-11.2 Structural Observation.** When the plans indicate that "Structural Observation" of specific work is required prior to Permit Inspection, Contractor shall notify Engineer, in writing, at least five working days prior to the date Contractor plans to have the work ready for structural observation. If the work is not ready for structural observation on the date indicated, Contractor shall reimburse Agency the cost of structural observer's visit to the Work site. If the work to be observed is substantially complete but is found to need correction before approval by the structural observer, Contractor shall give notice of a new date, as required above.

**2-12 SPECIAL NOTICES.** When specified in the Specifications or as directed by the Engineer, any notice required to be given in accordance with this subsection shall be in writing, dated, and signed by the Contractor or the Engineer. Such notices shall be served by any of the following methods:

- a) Personal delivery with proof of delivery which may be made by declaration under penalty of perjury by any person over the age of 18 years. The proof of delivery shall show that delivery was performed in accordance with these provisions. Service shall be effective on the date of delivery. Notices given to the Contractor by personal delivery may be made to the Contractor's authorized representative at the Work site; or
- b) Certified mail addressed to the mailing address of the recipient postage prepaid; return receipt requested. Service shall be effective on the date of the receipt of the mailing.

Simultaneously, the Agency may send the same notice by regular mail. If a notice that is sent by certified mail is returned unsigned, then delivery shall be effective pursuant to regular mail, provided the notice that was sent by regular mail is not returned.

#### **2-13 AGENCY PERSONNEL AND AUTHORITY**

**2-13.1 General.** The Board has complete authority for the project within the limits prescribed by law. Pursuant to resolutions duly adopted by the Board, the authority to perform certain functions has been delegated to the Director of Public Works. Agency staff personnel and Consultants delegated thereto by the Director are authorized to perform functions limited as set forth in the following list of personnel and designated duties.



**2-13.2 Engineer.** The Director of the Public Works Agency of the County of Ventura is the Engineer and has general authority to administer the Contract. The Engineer has the following specific authority:

(a) To issue Contract Change Orders (CCO) and to settle claims subsequent to Acceptance as follows:

<u>Original Contract Amount</u>	<u>Maximum Amount of any Change Order or Claim Settlement</u>
\$50,000 or less .....	\$5,000
greater than \$50,000 and not over \$250,000 .....	10% of the original Contract amount
greater than \$250,000 and not over \$3,950,000 .....	\$25,000 plus 5% of the original Contract cost in excess of \$250,000.
greater than \$3,950,000 .....	\$210,000

CCOs and claim settlements exceeding the amounts set forth above require Board approval.

- (b) To make final adjustments of quantities (FAQ) on unit price items.
- (c) To accept the Work when the Contractor has completed all obligations of the Contract, in accordance with the Plans, Specifications and other Contract Documents. The Engineer also has authority to make and record the Notice of Completion.
- (d) To approve progress and final payments under the Contract, including the provisions for withholding funds.
- (e) To determine whether performance on the Work is satisfactory. Satisfactory performance includes compliance with all contract requirements.
- (f) To approve the substitution of a Subcontractor, where allowed by law, if the listed Subcontractor does not object when notified.
- (g) To suspend the Work for the benefit of the Agency.
- (h) In the absence of the Agency Director, a Public Works Agency Department Director, as Deputy Director of Public Works, may exercise the Engineer's authority. Such action will be indicated by "Acting" with the Department Director's signature.

**2-13.3 Department Director (Public Works Agency).** The Department Director responsible for the project is designated in the Notice to Proceed. The Department Director has the following authority:

(a) To issue Contract Change Orders (CCO) as follows:

<u>Original Contract Amount</u>	<u>Maximum Amount of any Change Order</u>
Less than \$500,000 .....	\$5,000
\$500,000 to \$1,000,000 .....	1% of Bid Price
Greater than \$1,000,000 .....	\$10,000

- (b) To issue extensions of Contract time in accordance with the Contract Documents.
- (c) To make final adjustment of quantities where the total does not exceed the amounts listed in (a) above.
- (d) To approve the substitution of subcontractors, where allowed by law, if the listed Subcontractor does not object when notified.
- (e) To determine when the Work has been completed and acknowledge in writing the completion of the Work.

**2-13.4 Project manager.** The Project manager responsible for the project is designated in the Notice to Proceed. This person may also be referred to as Project Engineer. The Project manager has the following authority:

- (a) To interpret the Plans and Specifications.
- (b) To make minor changes in the location or features of the Work where no change in cost is involved. Such changes in cost may not be the net of multiple changes.
- (c) To approve substitutes for material and equipment specified by proprietary names when such material and equipment meet the Contract requirements.
- (d) To approve shop drawings and submittals.
- (e) To issue stop work orders when necessary to enforce the provisions of the Contract.
- (f) To make determinations of each Working Day to be charged against the Contract time in accordance with 6-7.3.
- (g) To take over a portion of the Work for Agency's use in accordance with 6-10.
- (h) To receive all correspondence and other documents from the Contractor.
- (i) To inspect the Work and perform Final Inspection subject to review by the Department Director and the Engineer.

**2-13.5 Inspector.** One or more inspectors will be assigned to the project by the Project manager. Substitutes may be used during absence of the assigned inspector. The Inspector has the following authority subject to review by the Project manager, Department Director and the Engineer:

- (a) To view and inspect the Work, sample and test components (at the Work site and at offsite manufacturing locations), and to discuss the Work with the Contractor's field representative.
- (b) To determine compliance with the Plans, Specifications and other Contract Documents and to issue warnings of noncompliance.
- (c) To issue stop work notices in the following two instances only:
  - 1) Where a safety hazard exists that has an immediate potential for serious injury or death.
  - 2) Where the operation in progress, if continued for even a short period of time, could be adverse to the Agency's interests.

**2-13.6 Other Agency Personnel and Consultants.**

**2-13.6.1 Materials Engineer.** The Materials Engineer is designated in the Notice to Proceed. The Materials Engineer may assign one or more Materials Inspectors to the project.

Materials Inspectors have authority to sample and test material at the Work site and at offsite manufacturing or storage locations. They may furnish available written test results to the Contractor's field representative. At batch plants, they may issue warnings of noncompliance, but stop notices require the signature of the Materials Engineer or Project manager.

**2-13.6.2 Surveyors & Technicians.** Surveyors and technicians shall have free access to the site to perform their duties but have no authority related to Contract administration.

**2-13.6.3 Other Persons.** Other Agency personnel who are not involved in construction administration and the general public may be present at the site because it is their present place of work, as client/customers, as visitors, as future users of the facility, or as persons who will maintain the completed facility. Where the facility is to continue in use during construction, work access for Agency workers and client/customers shall be maintained as provided in the Special Provisions. Where the facility (or portion where construction is being performed) is not in use during construction, admittance to the Work site by Agency personnel not involved in construction administration and visitors may be allowed by the Contractor or by the inspector, subject to compliance with safety regulations. Such persons have no authority under the Contract and the Agency is not responsible for their comments, suggestions or directions.

**2-13.6.4 Consultants.** Consultants hired by the Agency shall have free access to the site to perform their duties but have no authority related to Contract administration, unless such duties are specifically identified in writing to the Contractor. When so identified, Consultant may perform the duties of certain Agency personnel described above.

## SECTION 3 - CHANGES IN WORK

### 3-1 CHANGES REQUESTED BY THE CONTRACTOR

**3-1.1 General.** Changes in specified methods of construction may be made at the Contractor's request when approved in writing by the Engineer. Changes in the Plans and Specifications, requested in writing by the Contractor, which do not materially affect the Work and which are not detrimental to the Work or to the interests of the Agency, may be granted by the Board to facilitate the Work, when approved in writing by the Engineer. Nothing herein shall be construed as granting a right to the Contractor to demand acceptance of such changes.

**3-1.2 Payment for Changes Requested by the Contractor.** If such changes are granted, they shall be made at a reduction in cost or at no additional cost to the Agency. All costs to the Agency in reviewing the proposed change, or testing materials involved therein, shall be paid for by the Contractor, whether or not the change is approved.

### 3-2 CHANGES INITIATED BY THE AGENCY

**3-2.1 General.** The Agency may change the Plans, Specifications, character of the Work, or quantity of work, provided the total arithmetic dollar value of all such changes, both additive and deductive, does not exceed 25 percent of the Contract Price. Should it become necessary to exceed this limitation, the change shall be by written Supplemental Agreement between the Contractor and Agency, unless both parties agree to proceed with the change by Change Order.

Change orders shall be in writing and state the dollar value of the change or establish method of payment, any adjustment in Contract time, and, when negotiated prices are involved, shall provide for the Contractor's signature indicating its acceptance.

#### 3-2.2 Payment for Changes Initiated by the Agency.

**3-2.2.1 Contract Unit Prices.** If a change is ordered in an item of work covered by a Contract unit price, and such change does not involve a substantial change in the character of the Work from that shown on the Plans or included in the Specifications, an adjustment in payment will be made based upon the increase or decrease in quantity and the Contract unit price. In the case of such an increase or decrease in a Major Bid Item, the use of this basis for the adjustment of payment will be limited to that portion of the change which, together with all previous changes to that item, is not in excess of 25% of the total cost of such item based on the original quantity and Contract unit price.

If a change is ordered in an item of work covered by a Contract unit price, and such change does involve a substantial change in the character of the Work from that shown on the Plans or included in the Specifications, an adjustment in payment will be made in accordance with 3-2.2.3.

Should any Contract item be deleted in its entirety, payment will be made only for actual costs incurred prior to notification of such deletion.

**3-2.2.2 Stipulated Unit Prices.** Stipulated unit prices are those established by the Agency in the Contract Documents, as distinguished from Contract unit prices submitted by the Contractor. Stipulated unit prices may be used for the adjustment of Contract changes.

**3-2.2.3 Pricing.** Adjustments in payments for changes other than those set forth in 3-2.2.1 and 3-2.2.2 will be determined by agreement between Contractor and Agency. If unable to reach agreement, the Agency may direct the Contractor to proceed on the basis of Extra Work in accordance with 3-3 or as set forth in 3-2.2.4.

**3-2.2.4 Non-Agreed Prices.** Agency may issue a change order directing the Contractor to proceed at a price set by the Agency or on the basis of Extra Work. If the Agency sets a price for the work covered by the change order, Contractor is entitled to payment for such work in accordance with 3-3 to the extent payment in accordance with 3-3 exceeds the price set by the Agency.

### 3-3 EXTRA WORK

**3-3.1 General.** New or unforeseen work will be classed as "Extra Work" when the Engineer determines that it is not covered by Contract Unit Prices or Stipulated Unit Prices.

#### 3-3.2 Payment.

**3-3.2.1 General.** When the price for the Extra Work cannot be agreed upon, the Agency will pay for the Extra Work based on the accumulation of costs as provided herein.

### 3-3.2.2 Basis for Establishing Costs

**(a) Labor.** The cost of labor will be the current cost for wages prevailing for each craft or type of workers performing the Extra Work at the time the Extra Work is done, plus payment of health and welfare, pension, vacation, apprenticeship funds, and other direct costs included in the prevailing rates applicable to the project, as well as assessments or benefits required by lawful collective bargaining agreements. To the total of these labor costs, the labor surcharge set forth in the current CALTRANS Labor Surcharge and Equipment Rental Rates publication shall be applied.

The use of a labor classification which would increase the Extra Work cost will not be permitted unless the Contractor establishes the necessity for such additional costs.

Labor costs for equipment operators and helpers shall be reported only when such costs are not included in the invoice for the equipment rental. The labor cost for foremen shall be proportioned to all of their assigned work and only that applicable to Extra Work shall be paid. A foreman is defined as a lead working journeyman.

Nondirect labor costs including superintendence, payroll taxes, all types of insurance, and all other labor costs, not specifically provided for, shall be considered to be paid for as part of the markup of 3-3.2.3(a)(1).

**(b) Materials.** The cost of materials reported shall be at invoice or lowest current price at which such materials are locally available and delivered to the Work site in the quantities involved, plus sales tax, freight and delivery.

The Agency reserves the right to approve materials and sources of supply, or to supply materials to the Contractor if necessary for the progress of the Work. No markup shall be applied to any material provided by the Agency.

**(c) Tool and Equipment Rental.** No payment will be made for the use of tools which have a replacement value of \$200 or less.

Regardless of ownership, the rates to be used for determining equipment rental costs shall not exceed the following:

- (1) For equipment that is listed in the current CALTRANS Labor Surcharge and Equipment Rental Rates publication, the rates shown therein. The right of way delay and overtime/multiple shift factors contained therein shall be used as applicable.
- (2) For equipment not listed in said CALTRANS publication, the listed rates prevailing locally at equipment rental agencies, or distributors, at the time the work is performed.
- (3) For equipment rental that includes operators and helpers, the applicable cost from (1) or (2) above, plus the applicable labor costs as determined in accordance with (a) above.

The rental rates paid shall include the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, and all incidentals.

Necessary loading and transportation costs for equipment used on the Extra Work shall be added to the other costs.

If equipment is used intermittently and, when not in use, could be returned to its rental source at less expense to the Agency than holding it at the work site, it shall be returned, unless the Contractor elects to keep it at the work site at no expense to the Agency.

All equipment shall be acceptable to the Engineer, in good working condition, and suitable for the purpose for which it is to be used. Manufacturer's ratings and manufacturer's approved modifications shall be used to classify equipment and it shall be powered by a unit of at least the minimum rating recommended by the manufacturer.

The reported rental rates for equipment already at the work site shall be for the duration of its use on the Extra Work, commencing at the time it is first put into actual operation on the Extra Work, plus the time required to move it from its previous site, and move it back to its previous site or to a closer site of next use.

### **3-3.2.2 Basis for Establishing Costs (Continued)**

**(d) Other Items.** The Agency may authorize other items which may be required on the Extra Work. Such items include labor, service, material and equipment which are different in their nature from those required for the Work specified in the Contract and which are of a type not ordinarily available from the Contractor or any of its subcontractors.

Invoices covering all such items in detail shall be submitted with the request for payment.

**(e) Invoices.** Vendors' invoices for material, equipment rental, and other expenditures, shall be submitted with the request for payment. If the request for payment is not substantiated by invoices or other documentation, the Agency may establish the cost of the item involved at the lowest price which was current at the time of the report.

### **3-3.2.3 Markup**

**(a) Work by Contractor.** The following percentage shall be added to the Contractor's costs and shall constitute the markup for all overhead and profits, and all other cost not specifically provided for:

- (1) Labor ..... 33%
- (2) Materials..... 15%
- (3) Equipment Rental ..... 15%
- (4) Other Items and Expenditures ... 15%

To the sum of the cost and markups provided for in this section, 1 percent shall be added as compensation for bonding.

**(b) Work by Subcontractor.** When all or any part of the Extra Work is performed by a Subcontractor, the markup established in 3-3.2.3(a) shall be applied to the Subcontractor's actual cost of such work. A markup of 10% on the first \$5,000 of the subcontracted portion of the Extra Work and a markup of 5% on work in excess of \$5,000 of the subcontracted portion of the Extra Work may be added by the Contractor.

**3-3.3 Daily Extra Work Reports by Contractor.** When the price for the Extra Work cannot be agreed upon, the Contractor shall submit a Daily Extra Work Report to the Engineer on forms furnished by the Agency, together with applicable delivery tickets, listing all labor, materials, and equipment involved for that day, and for other services and expenditures when authorized. Failure to submit the Daily Extra Work Report, showing the labor and equipment hours and the quantity of materials used, by the close of the next Working Day may waive any rights for that day. Failure to submit fully completed Daily Extra Work Reports, with the required supporting documentation, within ten calendar days after the Engineer makes a written request for the such reports shall waive all rights for the work covered by the requested reports. An attempt shall be made to reconcile the Daily Extra Work Report daily, and it shall be signed by the Engineer and the Contractor. In the event of disagreement, pertinent notes shall be entered by each party to explain points which cannot be resolved immediately. Each party shall retain a signed copy of the Daily Extra Work Report. Daily Extra Work Reports by Subcontractors or others shall be submitted through the Contractor.

The Daily Extra Work Report shall:

- 1) Show names of workers, classifications, and hours worked.
- 2) Describe and list quantities of materials used.
- 3) Show type of equipment, size, identification number, and hours of operation, including loading and transportation, if applicable.
- 4) Describe other services and expenditures in such detail as the Agency may require.

In addition to the Daily Extra Work Reports, the Contractor shall furnish Certified Payroll Records for the labor included in the reports before payment will be made.

**3-4 CHANGED CONDITIONS.** The Contractor shall notify the Engineer in writing of the following work site conditions, hereinafter called changed conditions, promptly upon their discovery and before they are disturbed:

- 1) Subsurface or latent physical conditions differing materially from those represented in the Contract;
- 2) Unknown physical conditions of an unusual nature differing materially from those ordinarily encountered and generally recognized as inherent in Work of the character being performed; and
- 3) Material differing from that represented in the Contract which the Contractor believes may be hazardous waste, as defined in Section 25117 of the Health and Safety Code that is required to be removed to a Class I, Class II or Class III disposal site in accordance with provisions of existing law.

The Engineer will promptly investigate conditions which appear to be changed conditions. If the Engineer determines that the conditions are changed conditions and that they will materially increase or decrease the costs of any portion of the Work, a Change Order will be issued adjusting the compensation for such portion of the Work in accordance with 3-2.2. If the Engineer determines that conditions are changed conditions and that they will materially affect the performance time, the Contractor, upon submitting a written request, will be granted an extension of time subject to the provisions of 6-6.

If the Engineer determines that the conditions of which it has been notified by the Contractor do not justify an adjustment in compensation, the Contractor will be so notified in writing. This notice will also advise the Contractor of its obligation to notify the Engineer, in writing, if the Contractor disagrees.

Should the Contractor disagree with such determination, it may submit a written notice of potential claim to the Engineer before commencing the disputed work. In the event of such a disagreement, the Contractor shall not be excused on account of that disagreement from any scheduled completion date provided for by the Contract, but shall proceed with all Work to be performed under the Contract. However, the Contractor shall retain any and all rights provided either by Contract or by law which pertain to the resolution of disputes and protests between the contracting parties. The Contractor shall proceed as provided in 3-5.

The Contractor's failure to give notice of changed conditions promptly upon their discovery and before they are disturbed shall constitute a waiver of all claims in connection therewith.

**3-5 DISPUTED WORK.** If the Contractor and the Agency are unable to reach agreement on disputed work, the Agency may direct the Contractor to proceed with the Work. Payment shall be as later determined by mediation or arbitration, if the Agency and the Contractor agree thereto, or as fixed in a court of law.

Although not to be construed as proceeding under Extra Work provisions, the Contractor shall keep and furnish records of disputed work in accordance with 3-3.

## SECTION 4 - CONTROL OF MATERIALS

### 4-1 MATERIALS AND WORKMANSHIP

**4-1.1 General.** All materials, parts, and equipment furnished by the Contractor in the Work shall be new, high grade, and free from defects. Quality of work shall be in accordance with the generally accepted standards. Material and work quality shall be subject to the Engineer's approval.

Materials and work quality not conforming to the requirements of the Specifications shall be considered defective and will be subject to rejection. Defective work or material, whether in place or not, shall be removed immediately from the site by the Contractor, at its expense, when so directed by the Engineer.

If the Contractor fails to replace any defective or damaged work or material after reasonable notice, the Engineer may cause such work or materials to be replaced. The replacement expense will be deducted from the amount to be paid to the Contractor.

Used or secondhand materials, parts, and equipment may be used only if permitted by the Specifications.

**4-1.1.1 Materials Furnished by Agency.** Materials furnished by the Agency will be available at locations designated in the Special Provisions or if not designated in the Special Provisions, they will be delivered to a single location of Agency's choice within the project area. They shall be hauled to the site of installation by the Contractor at its expense, including any necessary loading and unloading that may be involved. The cost of handling and placing materials furnished by the Agency shall be considered as included in the price paid for the Contract item involving such furnished materials.

The Contractor will be held responsible for all materials furnished to it, and it shall pay all demurrage and storage charges. Furnished materials, after delivery to Contractor, lost or damaged from any cause whatsoever shall be replaced by the Contractor. The Contractor will be liable to the Agency for the cost of replacing lost or damaged furnished material and such costs may be deducted from any monies due or to become due the Contractor.

**4-1.2 Protection of Work and Materials.** The Contractor shall provide and maintain storage facilities and employ such measures as will preserve the specified quality and fitness of materials to be used in the Work. Stored materials shall be reasonably accessible for inspection. The Contractor shall also adequately protect new and existing work and all items of equipment for the duration of the Contract.

The Contractor shall not, without the Agency's consent, assign, sell, mortgage, hypothecate, or remove equipment or materials which have been installed or delivered and which may be necessary for the completion of the Contract.

### 4-1.3 Inspection Requirements

**4-1.3.1 General.** Unless otherwise specified, inspection is required at the source for asphalt concrete pavement mixtures, structural concrete, metal fabrication, metal casting, welding, concrete pipe manufacture, protective coating application, and similar shop or plant operations. Steel pipe in sizes less than 450 mm (18 inches), vitrified clay and cast iron pipe in all sizes are acceptable upon certification as to compliance with the Specifications, subject to sampling and testing by the Agency. Standard items of equipment such as electric motors, conveyors, elevators, plumbing fixtures, etc., are subject to inspection at the Work site only. Special items of equipment such as designed electrical panel boards, large pumps, sewage plant equipment, etc., are subject to inspection at the source, normally only for performance testing. The Specifications may require inspection at the source for other items not typical of those listed in this section.

**4-1.3.2 Inspection of Materials Not Locally Produced.** When the Contractor intends to purchase materials, fabricated products, or equipment from sources located more than 80 km (50 miles) outside the geographical limits of the Agency, an inspector or accredited testing laboratory (approved by the Engineer), shall be engaged by the Contractor at its expense, to inspect the materials, equipment or process. This approval shall be obtained before producing any material or equipment. The inspector or representative of the testing laboratory shall evaluate the materials for conformance with the Plans and Specifications. The Contractor shall forward reports required by the Engineer. No materials or equipment shall be shipped nor shall any processing, fabrication or treatment of such materials be done without proper inspection by the approved agent. Approval by said agent shall not relieve the Contractor of responsibility for complying with the Contract requirements.

**4-1.3.3 Inspection by the Agency.** The Agency will provide all inspection and testing laboratory services within 80 km (50 miles) of the geographical limits of the Agency.

**4-1.3.4 Certificates of Compliance.** The Engineer may require certificates of compliance with the Specifications for materials or manufactured items produced outside of the Work site. Such certificates will not relieve the Contractor from the requirements of providing material and manufactured items complying with the Specifications even though they have been incorporated into the Work.

**4-1.4 Tests of Materials.** Before incorporation in the Work, the Contractor shall submit samples of materials, as the Engineer may require, at no cost to the Agency. The Contractor, at its own expense, shall deliver the materials for testing to the place and at the time designated by the Engineer. Unless otherwise provided, all initial testing and a reasonable amount of retesting shall be performed under the direction of the Engineer, and at no expense to the Contractor. If the Contractor is to provide and pay for testing, the Specifications will so state.

The Contractor shall notify the Engineer in writing, at least 15 Days in advance, of its intention to use materials for which tests are specified, to allow sufficient time to perform the tests. The notice shall name the proposed supplier and source of material.

If the notice of intent to use is sent before the materials are available for testing or inspection, or is sent so far in advance that the materials on hand at the time will not last but will be replaced by a new lot prior to use on the Work, it will be the Contractor's responsibility to re-notify the Engineer when samples which are representative may be obtained.

**4-1.5 Certification.** The Engineer may waive materials testing requirements of the Specifications and accept the manufacturer's written certification that the materials to be supplied meet those requirements. Materials test data may be required as part of the certification.

**4-1.6 Trade Names or Equals.** The Contractor may supply any of the materials specified or offer an equivalent. The Engineer shall determine whether the material offered is equivalent to that specified. Adequate time shall be allowed for the Engineer to make this determination.

Whenever any particular material, process, or equipment is indicated by patent, proprietary or brand name, or by name of manufacturer, such wording is used for the purpose of facilitating its description and shall be deemed to be followed by the words **or equal**. A listing of materials is not intended to be comprehensive, or in order of preference. The Contractor may offer any material, process, or equipment considered to be equivalent to that indicated. The substantiation of offers shall be submitted as provided in the Contract Documents.

The Contractor shall, at its expense, furnish data concerning items offered by it as equivalent to those specified. The Contractor shall have the material tested as required by the Engineer to determine that the quality, strength, physical, chemical, or other characteristics, including durability, finish, efficiency, dimensions, service, and suitability are such that the item will fulfill its intended function.

Test methods shall be subject to the approval of the Engineer. Test results shall be reported promptly to the Engineer, who will evaluate the results and determine if the substitute item is equivalent. The Engineer's findings shall be final. Installation and use of a substitute item shall not be made until approved by the Engineer.

If a substitute offered by the Contractor is not found to be equal to the specified material, the Contractor shall furnish and install the specified material.

The specified Contract completion time shall not be affected by any circumstance developing from the provisions of this section.

**4-1.6.1 Compatibility with Design.** Where the size, configuration, weight, fastening locations, fastening strength, utility rough-in locations, and utility capacities of equipment or devices offered by the Contractor as equivalents do not conform to those provided for in the Contract Documents or those which are necessary for equipment or devices indicated by brand names, the Contractor shall bear all costs of redesign and changes in construction necessary to adapt the offered equipment or device to the Work.

Equipment or devices will not be considered "equal" where the life cycle cost of operation, utilities and maintenance of the offered alternate is greater than those listed by brand names. Life cycle costs shall mean utility charges (demand and usage charges), maintenance, operating personnel and replacement (equipment, installation and down time expenses) all reduced to an average annual rate using the current interest rate earned on funds invested by the County Treasurer.



**4-1.6.2 Trade Names Listed.** Where the Agency has listed products by brand or trade name on the Plans or in the Specifications, or both, this shall not be construed as meaning every product may be used without furnishing shop drawings, without redesign of the facility or without a change in utility rough-in requirements.

Where use of products listed on the Plans or in the Specifications, or both, or where use of a substitute proposed as an "equal" product requires shop drawings, redesign of the facility, or revisions in the size and location of rough-in utility connections, or in connecting work, the Contractor shall provide any necessary shop drawings, or shall cause the preparation of any necessary redesign or revisions to the Plans at its own expense and shall bear the full cost of any necessary additional construction or reconstruction work. No work described in shop drawings, a redesign, or a revision to the Plans shall be undertaken until such shop drawings, redesign, or revisions have been approved by the Engineer. Any proposed redesign or revision to the Plans shall be accompanied by complete computations and details prepared by an appropriate licensed design professional.

**4-1.7 Weighing Equipment.** All scales used for proportioning materials shall be inspected for accuracy and certified within the past 12 months by the State of California Bureau of Weights and Measures, by the County Director or Sealer of Weights and Measures, or by a scale mechanic registered with or licensed by the County.

The accuracy of the work of a scale service agency, except as stated herein, shall meet the standards of the California Business and Professions Code and the California Code of Regulations pertaining to weighing devices. A certificate of compliance shall be presented, prior to operation, to the Engineer for approval and shall be renewed whenever required by the Engineer at no cost to the Agency.

All scales shall be arranged so they may be read easily from the operator's platform or area. They shall indicate the true net weight without the application of any factor. The figures of the scales shall be clearly legible. Scales shall be accurate to within 1 percent when tested with the plant shut down. Weighing equipment shall be so insulated against vibration or moving of other operating equipment in the plant area that the error in weighing with the entire plant running will not exceed 2 percent for any setting nor 1.5 percent for any batch.

**4-1.8 Calibration of Testing Equipment.** Testing equipment, such as, but not limited to, pressure gages, metering devices, hydraulic systems, force (load) measuring instruments, and strain-measuring devices shall be calibrated by a testing agency acceptable to the Engineer at intervals not to exceed 12 months and following repairs, modification, or relocation of the equipment. Calibration certificates shall be provided when requested by the Engineer.

## SECTION 5 - UTILITIES

**5-1 LOCATION.** The Permittee (in the case of Private Contracts) and the Agency (in the case of Cash or Assessment Act Contracts), will search known substructure records and furnish the Contractor with copies of documents which describe the location of utility substructures, or will indicate on the Plans for the project those substructures (except for service connections) which may affect the Work. Information regarding removal, relocation, abandonment, or installation of new utilities will be furnished to prospective bidders.

Where underground main distribution conduits such as water, gas, sewer, electric power, telephone, or cable television are shown on the Plans, the Contractor shall assume that every property parcel will be served by a service connection for each type of utility.

As provided in Section 4216 of the California Government Code, at least 2 working days prior to commencing any excavation, the Contractor shall contact the regional notification center (Underground Service Alert of Southern California) and obtain an inquiry identification number.

The California Department of Transportation is not required by Section 4216 to become a member of the regional notification center. The Contractor shall contact it for location of its subsurface installations.

The Contractor shall determine the location and depth of all utilities, including service connections, which have been marked by the respective owners and which may affect or be affected by its operations. If no pay item is provided in the Contract for this work, full compensation for such work shall be considered as included in the prices bid for other items of work.

**5-2 PROTECTION.** The Contractor shall not interrupt the service function or disturb the support of any utility without authority from the owner or order from the Agency. All valves, switches, vaults, and meters shall be maintained readily accessible for emergency shutoff.

Where protection is required to ensure support of utilities located as shown on the Plans or in accordance with 5-1, the Contractor shall, unless otherwise provided, furnish and place the necessary protection at its expense.

Upon learning of the existence and location of any utility omitted from or shown incorrectly on the Plans, the Contractor shall immediately notify the Engineer in writing. When authorized by the Engineer, support or protection of the utility will be paid for as provided in 3-2.2.3 or 3-3.

The Contractor shall immediately notify the Engineer and the utility owner if any utility is disturbed or damaged. The Contractor shall bear the costs of repair or replacement of any utility damaged if located as noted in 5-1.

When placing concrete around or contiguous to any non-metallic utility installation, the Contractor shall at its expense:

1. Furnish and install a 50 mm (2 inch) cushion of expansion joint material or other similar resilient material; or
2. Provide a sleeve or other opening which will result in a 50 mm (2 inch) minimum-clear annular space between the concrete and the utility; or
3. Provide other acceptable means to prevent embedment in or bonding to the concrete.

Where concrete is used for backfill or for structures which would result in embedment, or partial embedment, of a metallic utility installation; or where the coating, bedding or other cathodic protection system is exposed or damaged by the Contractor's operations, the Contractor shall notify the Engineer and arrange to secure the advice of the affected utility owner regarding the procedures required to maintain or restore the integrity of the system.

**5-3 REMOVAL.** Unless otherwise specified, the Contractor shall remove all interfering portions of utilities shown on the Plans or indicated in the Bid documents as "abandoned" or "to be abandoned in place". Before starting removal operations, the Contractor shall ascertain from the Agency whether the abandonment is complete, and the costs involved in the removal and disposal shall be included in the Bid for the items of work necessitating such removals.

**5-4 RELOCATION.** When feasible, the owners responsible for utilities within the area affected by the Work will complete their necessary installations, relocations, repairs, or replacements before commencement of work by the Contractor. When the Plans or Specifications indicate that a utility installation is to be relocated, altered, or constructed by others, the Agency will conduct all negotiations with the owners and work will be done at no cost to the Contractor, except as provided in 301-1.6. Utilities which are relocated in order to avoid interference shall be protected in their position and the cost of such protection shall be included in the Bid for the items of work necessitating such relocation.

After award of the Contract, portions of utilities which are found to interfere with the Work will be relocated, altered or reconstructed by the owners, or the Engineer may order changes in the Work to avoid interference. Such changes will be paid for in accordance with 3-2.

When the Plans or Specifications provide for the Contractor to alter, relocate, or reconstruct a utility, all costs for such work shall be included in the Bid for the items of work necessitating such work. Temporary or permanent relocation or alteration of utilities requested by the Contractor for its convenience shall be its responsibility and it shall make all arrangements and bear all costs.

The utility owner will relocate service connections as necessary within the limits of the Work or within temporary construction or slope easements. When directed by the Engineer, the Contractor shall arrange for the relocation of service connections as necessary between the meter and property line, or between a meter and the limits of temporary construction or slope easements. The relocation of such service connections will be paid for in accordance with provisions of 3-3. Payment will include the restoration of all existing improvements which may be affected thereby. The Contractor may agree with the owner of any utility to disconnect and reconnect interfering service connections. The Agency will not be involved in any such agreement.

**5-5 DELAYS.** The Contractor shall notify the Engineer of its construction schedule insofar as it affects the protection, removal, or relocation of utilities. Said notification shall be included as a part of the construction schedule required in 6-1. The Contractor shall notify the Engineer in writing of any subsequent changes in the construction schedule which will affect the time available for protection, removal, or relocation of utilities.

The Contractor will not be entitled to damages or additional payment for delays attributable to utility relocations or alterations if correctly located, noted, and completed in accordance with 5-1.

The Contractor may be given an extension of time for unforeseen delays attributable to unreasonably protracted interference by utilities in performing work correctly shown on the Plans.

The Agency will assume responsibility for the timely removal, relocation, or protection of existing main or trunkline utility facilities within the area affected by the Work if such utilities are not identified in the Contract Documents. The Contractor will not be assessed liquidated damages for any delay caused by failure of Agency to provide for the timely removal, relocation, or protection of such existing facilities.

If the Contractor sustains loss due to delays attributable to interferences, relocations, or alterations not covered by 5-1, which could not have been avoided by the judicious handling of forces, equipment, or plant, there shall be paid to the Contractor such amount as the Engineer may find to be fair and reasonable compensation for such part of the Contractor's actual loss as was unavoidable and the Contractor may be granted an extension of time.

**5-5.1 Cooperation During Utility Relocation.** When utilities are to be relocated during construction, the Contractor shall cooperate and coordinate with the respective utility owners so they may relocate their facilities to clear the Work. Delays in relocation of utilities which result from failure to cooperate and coordinate will not be a cause for an extension of time or Non-Working Days.

**5-6 COOPERATION.** When necessary, the Contractor shall so conduct its operations as to permit access to the Work site and provide time for utility work to be accomplished during the progress of the Work.

## SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

### 6-1 CONSTRUCTION SCHEDULE AND COMMENCEMENT OF WORK.

The requirements of this section concerning submission of construction schedules shall not apply to projects where the time allowed to complete the Work is less than 25 Working Days or the total Contract Price bid is less than \$75,000 unless required by the special provisions.

The Contractor shall submit a construction schedule concurrently with the submittal of signed Contract, Contract bonds, and certificate of insurance. The Notice to Proceed will be delayed until the schedule is received. See 6-7.4, Starting of Contract Time.

When required by the Special Provisions, a revised schedule shall be submitted monthly prior to each progress payment closure date. Processing of the progress payment will be delayed until such revised schedule complying with this section is received.

The construction schedule shall be in the form of a Construction Element vs. Time Chart as shown in Appendix B-1 and a Work Complete vs. Time Chart as shown in Appendix B-2.

The B-1 Chart shall be in sufficient detail to show the chronological relationship of all activities of the project including, but not limited to, estimated starting and completion dates of various activities, submittal of shop drawings to the Engineer for approval, procurement of materials, and scheduling of equipment. The B-1 Chart shall recognize the requirements of 5-5. The B-1 Chart shall reflect obtaining all materials and completing all Work under the Contract within the specified time and in accordance with these Specifications. If the Contractor intends to complete the Work prior to the time for completion, the intended date of completion shall be set forth in the B-1 Chart and the Contractor shall execute a Contract Change Order that changes the number of Working Days allowed for completion to conform with such intended completion date. The Change Order shall not change the Contract Price.

The Contractor may submit a computer generated schedule in lieu of the form in Appendix B-1 and B-2, provided all of the elements shown on that form or specified herein are included.

An updated construction schedule shall be submitted prior to the next progress payment closure date whenever the actual percent Work complete versus percent time elapsed curve falls below and to the right of the dotted line shown on Appendix B-2.

If the Contractor desires to make a major change in its method of operations after commencing construction, or if its schedule fails to reflect the actual progress, it shall submit to the Agency a revised construction schedule in advance of beginning revised operations.

Revised and updated schedules shall show actual completion to the date of the revision in the lower segmented bar for each item.

The construction schedule shall be prepared as follows (see examples in Appendices C-1 and C-2):

1. On the B-1 Chart:

- a. Enter the project name and Specification No. as shown on the notice inviting bids and the Contractors name.
- b. List the items of Work either individually or combined where items are part of the same element of the Work.
- c. Assign a value for each horizontal space plotting interval in Working Days as follows: 1 working day for total Contract time of less than 100 working days, 2 for 100 to 200 working days and 5 for longer projects. Enter the value used in the space provided in the lower part of the form.
- d. At the end of performance time and draw a vertical line and label it "End Performance Time". Enter numbers at 10 times the plotting interval at the top of intermediate vertical lines.
- e. Shade in a bar in the upper segmented section for each work item to indicate the period during which Work will be performed. Move-in time and delivery time for materials shall be shown if significant to the schedule.

## **6-1 CONSTRUCTION SCHEDULE AND COMMENCEMENT OF WORK. (Continued)**

### **2. On the B-2 Chart:**

- a. Enter the project name and Specification No. as shown on the notice inviting bids.
- b. At time intervals of 10 or 20 working days:
  - (1) Compute the cumulative dollar value of Work which is expected to be completed for each item of Work, including the value of the completed portion of lump-sum items.
  - (2) Divide the values computed in "b(1)" by the Total Contract Price to determine the percentage of the entire Contract planned for completion at the end of each time interval.
  - (3) Divide the days of performance time at the end of each time interval by the total Contract performance time to obtain the percentage of elapsed performance time.
- c. Plot each percentage of completion value figure computed in "b(2)" against the corresponding percentage of completion time computed in "b(3)" using scales on the bottom and left side of chart.
- d. Connect points plotted in "c" with a line which will show the planned progress for the entire job.

If the proposed percent Work complete versus percent time elapsed line falls below and to the right of the dotted line drawn on the B-2 Chart, the Contractor shall provide sufficient information and backup to show that the Work can be completed on time.

**6-1.1 Beginning of Work.** The issuance of Notice to Proceed by Agency shall constitute the Contractor's authority to enter upon the site of the Work and to begin operations provided it has also notified Engineer at least 24 hours in advance. Entry upon the site without authority will be treated as trespassing.

**6-1.2 Starting Work.** The Contractor may start work at any time after the Notice to Proceed is issued but work shall begin within 15 Days after the starting date for the Contract, or at such other time as may be indicated in the Special Provisions. The actual date on which the Contractor starts work will not affect the required time for completion as provided for in 6-7 and 6-7.1.

**6-1.3 Work Sequence.** If required by the Special Provisions, the Contractor shall start construction operations on that part of the Work designated by the Engineer.

**6-1.4 Resources Required.** The Work shall be conducted in such a manner and with sufficient materials, equipment, and labor to insure its completion in accordance with the Plans and Specifications within the time set forth in the Contract.

**6-2 PROSECUTION OF WORK.** To minimize public inconvenience and possible hazard and to restore streets and other Work areas to their original condition and former state of usefulness as soon as practicable, the Contractor shall diligently prosecute the Work to completion. If, in the Engineer's opinion, the Contractor fails to prosecute the Work to the extent that the above purposes are not being accomplished, the Contractor shall, upon orders from the Engineer, immediately take the steps necessary to fully accomplish said purposes. All costs of prosecuting the Work as described herein shall be absorbed in the Contractor's bid. Should the Contractor fail to take the necessary steps to fully accomplish said purposes, after orders of the Engineer to do so, the Engineer may suspend the Work in whole or in part, until the Contractor takes said steps.

As soon as possible under the provisions of these Specifications, the Contractor shall backfill all excavations and restore to usefulness all improvements existing prior to the start of the Work.

If Work is suspended through no fault of the Agency, all expenses and losses incurred by the Contractor during such suspensions shall be borne by the Contractor. If the Contractor fails to properly provide for public safety, traffic, and protection of the Work during periods of suspension, the Agency may elect to do so, and deduct the cost thereof from monies due the Contractor. Such action will not relieve the Contractor from liability.

## **6-3 SUSPENSION OF WORK**

**6-3.1 General.** The Work may be suspended in whole or in part when determined by the Engineer that the suspension is necessary in the interest of the Agency. The Contractor shall comply immediately with any written order of the Engineer. Such suspension shall be without liability to the Contractor on the part of the Agency except as otherwise specified in 6-6.3.

**6-3.2 Archaeological and Paleontological Discoveries.** If discovery is made of items of archaeological or paleontological interest, the Contractor shall immediately cease excavation in the area of discovery and shall not continue until ordered by the Engineer. When resumed, excavation operations within the area of discovery shall be as directed by the Engineer.

Discoveries which may be encountered may include, but not be limited to, dwelling sites, stone implements or other artifacts, animal bones, human bones and fossils.

The Contractor shall be entitled to an extension of time and compensation in accordance with the provisions of 6-6.

**6-3.3 Temporary Suspension of Work.** Should suspension of Work be ordered by reason of the failure of the Contractor to carry out orders or to perform any provisions of the Contract; or by reason of weather conditions being unsuitable for performing any item or items of Work; the Contractor, at its expense, shall do all the work necessary to provide a safe, smooth, and unobstructed passageway through construction for use by public traffic during the period of such suspension. In the event that the Contractor fails to perform the work above specified, the Agency may perform such work and the cost thereof will be deducted from monies due or to become due the Contractor.

If the Engineer orders a suspension of all of the Work, or a portion of the Work which is the current controlling operation or operations, due to unsuitable weather or to such other conditions as are considered unfavorable to the suitable prosecution of the Work, the days on which the suspension is in effect shall not be considered Working Days.

If a portion of Work at the time of such suspension is not a current controlling operation or operations, but subsequently does become the current controlling operation or operations, the determination of Working Days will be made on the basis of the then current controlling operation or operations.

If a suspension of Work is ordered by the Engineer due to the failure on the part of the Contractor to carry out orders given or to perform any provision of the Contract, the Days on which the suspension order is in effect shall be considered Working Days if such days are Working Days as defined.

#### **6-4 TERMINATION OF THE CONTRACT FOR DEFAULT..**

**6.4.1 General.** If, prior to the acceptance of the Work, the Contractor:

- a) becomes insolvent, assigns its assets for the benefit of its creditors, is unable to pay its debts as they become due, or is otherwise financially unable to complete the Work,
- b) abandons the Work by failing to report to the Work site and diligently prosecute the Work to completion,
- c) disregards written instructions from the Agency or materially violates provisions of the Contract Documents,
- d) fails to prosecute the Work according to the schedule approved by the Engineer,
- e) disregards laws or regulations of any public body having jurisdiction, or
- f) commits continuous or repeated violations of regulatory or statutory safety requirements, then the Agency will consider the Contractor in default of the Contract.

Notices, and other written communications regarding default between the Contractor, the Agency, and the Surety shall be transmitted in accordance with 2-12.

**6-4.2 Notice to Cure.** The Agency will issue a written notice to cure the default to the Contractor and its Surety. The Contractor shall commence satisfactory corrective actions within 5 Working Days after receipt.

**6-4.3 Notice of Termination for Default.** If the Contractor fails to commence satisfactory corrective action within 5 Working Days after receipt of the notice to cure, or to diligently continue satisfactory and timely correction of the default thereafter, then the Agency will consider the Contractor in default of the Contract and:

- a) will terminate the Contractor's right to perform under the Contract by issuing a written notice of termination for default to the Contractor and its Surety,
- b) may use any materials, equipment, tools or other facilities furnished by the Contractor to secure and maintain the Work site, and
- c) may furnish labor, equipment, and materials the Agency deems necessary to secure and maintain the Work site. The provisions of this subsection shall be in addition to all other legal rights and remedies available to the Agency.

**6-4.4 Responsibilities of the Surety.** Upon receipt of the written notice of termination for default, the Surety shall immediately assume all rights, obligations and liabilities of the Contractor under the Contract. If the Surety fails to protect and maintain the Work site, the Agency may do so, and may recover all costs incurred. The Surety shall notify the Agency that it is assuming all rights, obligations and liabilities of the Contractor under the Contract and all money that is due, or would become due, to the Contractor shall be payable to the Surety as the Work progresses, subject to the terms of the Contract.

Within 15 Working Days of receipt of the written notice of termination for default, the Surety shall submit to the Agency a written plan detailing the course of action it intends to take to remedy the default. The Agency will review the plan and notify the Surety if the plan is satisfactory. If the Surety fails to submit a satisfactory plan, or if the Surety fails to maintain progress according to the plan accepted by the Agency, the Agency may, upon 48 hours written notice, exclude the Surety from the premises, take possession of all material and equipment, and complete the Work in any way the Agency deems to be expedient. The cost of completing the Work by the Agency shall be charged against the Surety and may be deducted from any monies due, or which would become due, the Surety. If the amounts due under the Contract are insufficient for completion, the Surety shall pay to the Agency, within 30 days after the Agency submits an invoice, all costs in excess of the remaining Contract Price.

**6-4.5 Payment.** The Surety will be paid for completion of the Work in accordance with 9-3 less the value of damages caused to the Agency by acts of the Contractor.

**6-5 TERMINATION OF CONTRACT.** The Board may terminate the Contract at its own discretion or when conditions encountered during the Work make it impossible or impracticable to proceed, or when the Agency is prevented from proceeding with the Contract by act of God, by law, or by official action of a public authority.

The Agency will issue a written notice of termination for convenience in accordance with 2-12. Upon receipt, the Contractor shall immediately cease work, except work the Contractor is directed to complete by the Engineer or required to complete for public safety and convenience. The Contractor shall immediately notify Subcontractors and suppliers to immediately cease their work.

The Contractor will be paid without duplication for:

- a) work completed in accordance with the Contract Documents prior to the effective date of termination for convenience;
- b) reasonable costs incurred in settlement of terminated contracts with Subcontractors, suppliers and others; and
- c) reasonable expenses directly attributable to termination.

The Contractor shall submit a final termination settlement proposal to the Agency no later than 90 days from the effective date of termination, unless extended, in writing, by the Agency upon written request by the Contractor.

If the Contractor fails to submit a proposal, the Agency may determine the amount, if any, due the Contractor as a result of the termination. The Agency will pay the Contractor the amount it determines to be reasonable. If the Contractor disagrees with the amount determined by the Agency as being reasonable, the Contractor shall provide notice to the Agency within 30 days of receipt of payment. Any amount due shall be as later determined by arbitration, if the Agency and the Contractor agree thereto, or as fixed in a court of law.

## **6-6 DELAYS AND EXTENSIONS OF TIME**

**6-6.1 General.** If delays are caused by unforeseen events beyond the control of the Contractor, such delays will entitle the Contractor to an extension of time as provided herein, but the Contractor will not be entitled to damages or additional payment due to such delays, except as provided in 6-6.3. Such unforeseen events may include war, government regulations, labor disputes, strikes, fires, floods, adverse weather necessitating cessation of work, other similar action of the elements, inability to obtain materials, equipment or labor, required Extra Work, or other specific events as may be further described in the Specifications.

No extension of time will be granted for a delay caused by the Contractor's inability to obtain materials unless the Contractor furnishes to the Engineer documentary proof of the inability to obtain such materials in a timely manner in accordance with the sequence of the Contractor's operations and the approved construction schedule.

If delays beyond the Contractor's control are caused by events other than those mentioned above, but substantially equal in gravity to those enumerated, and an extension of time is deemed by the Engineer to be in the best interests of the Agency, an extension of time may be granted, but the Contractor will not be entitled to damages or additional payment due to such delays, except as provided in 6-6.3.

If delays beyond the Contractor's control are caused solely by action or inaction by the Agency, such delays will entitle the Contractor to an extension of time as provided in 6-6.2.

**6-6.2 Extensions of Time.** Extensions of time, when granted, will be based upon the effect of delays to the Work as a whole and will not be granted for noncontrolling delays to minor included portions of Work unless it can be shown that such delays did, in fact, delay the progress of the Work as a whole.

**6-6.3 Payment for Delays to Contractor.** The Contractor will be compensated for damages incurred due to delays for which the Agency is responsible if such delays are unreasonable in the circumstances involved and were not within the contemplation of the parties when the Contract was awarded to the Contractor and delay the Work as a whole. Such actual costs will be determined by the Engineer. The Agency will not be liable for, and in making this determination the Engineer will exclude, all damages which the Engineer determines the Contractor could have avoided by any reasonable means including, without limitation, the judicious handling of forces, equipment, or plant.

**6-6.4 Written Notice and Report.** If the Contractor desires payment for a delay as specified in 6-6.3 or an extension of time, it shall, within 30 Days after the beginning of the delay, file with the Agency a written request and report as to the cause and extent of the delay. The request for payment or extension must be made at least 15 Days before the specified completion date. Failure by the Contractor to file these items within the time specified will be considered grounds for refusal by the Agency to consider such request.

**6-6.4.1 Documentation of Delays.** When the Contractor requests an extension of time for delay due to inability to obtain materials or equipment, the documentary proof required by 6-6.1 shall include the following:

1. Date Engineer was notified of delay.
2. Date the delay began.
3. Exact description of material or equipment causing delay.
4. Documentation showing when and from whom ordered.
5. Documentation of promise to deliver.
6. Documentation of actual delivery date.
7. Description of how late delivery caused delay (include construction schedule).
8. Documentation of measures taken to get prompt delivery.
9. Documentation of attempts to get delivery from other sources.
10. Description of steps taken in project scheduling to minimize effects of late delivery.
11. Description of steps taken to get project back on schedule after actual delivery.
12. Statement of actual time lost as a result of late delivery.

## **6-7 TIME OF COMPLETION**

**6-7.1 General.** The Contractor shall complete the Work within the time set forth in the Contract. The Contractor shall complete each portion of the Work within such time as set forth in the Contract for such portion. Unless otherwise specified, the time of completion of the Contract shall be expressed in Working Day

**6-7.2 Working Day.** A Working Day is any day within the period between the start of the Contract time as defined in 6-1 and the date provided in the Contract for completion or upon field acceptance by the Engineer of all Work provided for in the Contract, whichever occurs first, other than:

- (1) Saturday,
- (2) Sunday,
- (3) any day designated as a holiday by the Agency,
- (4) any other day designated as a holiday in a Master Labor Agreement entered into by the Contractor or on behalf of the Contractor as an eligible member of a Contractor Association,
- (5) any day the Contractor is prevented from working at the beginning of the workday for cause as defined in 6-6.1,
- (6) any day the Contractor is prevented from working during the first 5 hours of the workday with at least 60 percent of the normal work force for cause as defined in 6-6.1.

**6-7.2.1 Holidays.** Solely for the purposes of paragraph (3) of 6-7.2, the following days are designated as holidays by the Agency.

	A	B
<u>MONTH</u>	<u>AGENCY EMPLOYEE HOLIDAYS</u>	<u>OTHER DESIGNATED HOLIDAYS</u>
January .....	1st day; 3rd Monday .....	None
February.....	3rd Monday .....	12th day
March.....	None.....	31st day
March-April .....	None.....	One Friday between March 21 and April 23 designated as Good Friday
May .....	Last Monday.....	None
June .....	None.....	None
July.....	4th day.....	None
August.....	None.....	None
September .....	1st Monday.....	9th day
October .....	None.....	2nd Monday
November .....	11 <sup>th</sup> day; 4th Thursday.....	the Friday following the 4th Thursday
December .....	25th .....	23rd day, only if Thursday or Friday; 24th day; 31st day

If any day listed above falls on Saturday, the preceding Friday is the holiday. If any day listed above falls on Sunday, the succeeding Monday is the holiday.

No extra holiday shall result when such Friday or Monday is already designated as a holiday.

A copy of a Working Day calendar incorporating the above-listed holidays and used by the Agency for Contract time accounting purpose will be furnished to the Contractor upon request.

The term "holiday" as used in this section shall not be construed as being the same as "holiday" within the meaning of 7-2.2.



The Contractor may perform work on the holidays designated in Column A above provided it has obtained prior written approval of the Engineer at least two Days in advance of performing the work. The Contractor may perform work on the holidays designated in Column B above provided the Contractor notifies the Engineer two Days in advance of the holiday.

**6-7.2.2 Landscape Maintenance Period.** Where a landscape maintenance period is specified, the portion of the time in such period that follows the completion of all other Work required by the Contract shall not be Working Days for Contract time accounting.

**6-7.3 Contract Time Accounting.** The Engineer will make a daily determination of each Working Day to be charged against the Contract time. These determinations will be discussed and the Contractor will be furnished a periodic statement showing the allowable number of Working Days of Contract time, as adjusted, at the beginning of the reporting period. The statement will also indicate the number of Working Days charged during the reporting period and the number of Working Days of Contract time remaining. If the Contractor does not agree with the statement, the Contractor must file a written protest within 15 Days after receipt, setting forth the facts of the protest. Otherwise, the statement will be deemed to have been accepted.

**6-7.4 Starting Date for Contract Time and Notice to Proceed.** The starting date for Contract time accounting will be determined by adding the number of Days indicated on the Proposal form to the date the Contract is awarded, however the Agency may, at its option, delay the starting date by not more than 60 calendar Days if necessary to obtain permits, rights-of-way, or approval of federal or State authorities, or when prevented from starting the project due to causes beyond its control. Notice to Proceed will be issued within 7 calendar Days after the Contract, bonds, certificates of insurance and other documents have been returned, properly completed by the Contractor, unless the starting date is delayed as herein provided. If the Agency delays the Contract starting date, Notice to Proceed will be issued at least 7 calendar Days prior to the new starting date. Any delay caused by failure of the Contractor to properly complete or timely return the Contract Documents shall not change the Contract starting date and shall not be a cause for extending the Contract time. The Notice of Award will indicate a probable Contract starting date. The Notice to Proceed will indicate the actual Contract starting date, computed as herein described.

## **6-8 COMPLETION, ACCEPTANCE AND WARRANTY.**

**6-8.1 Completion and Acceptance.** Acknowledgment of completion of the Work will occur prior to Acceptance by the Agency. Acceptance will only occur after all Contract requirements have been fulfilled, such as training, submission of warranties, maintenance manuals, record drawings, Release on Contract and the like. Acceptance by the Agency will occur when the Engineer signs the Notice of Completion. The Work will be inspected by the Engineer promptly upon receipt of the Contractor's written assertion that the Work has been completed. If, in the Engineer's judgment, the Work has been completed in accordance with the Plans and Specifications, the Engineer will acknowledge completion of the Work. Completion of the Work, as used above, shall include the Contractor showing evidence of having received an occupancy clearance from Building and Safety, or other permit issuing agency, when a building, plumbing electrical, grading, or other permit is required for the Work. The Engineer will, in acknowledging completion of the Work, set forth in writing the date when the Work was completed. This will be the date when the Contractor is relieved from responsibility to protect the Work. This will also be the date to which liquidated damages will be computed.

### **6-8.2 Warranty and Correction**

**6-8.2.1 Warranty** The Contractor warrants to the Agency that materials and equipment furnished under the Contract will be new, unless otherwise specified in the Contract Documents, and of good quality, that the Work will be free from defects in materials and workmanship and that the Work will conform to the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective by the Agency. This warranty excludes damage or defect caused by abuse (other than by the Contractor or those under the control of the Contractor), modifications not executed by the Contractor, or improper or insufficient maintenance. This warranty excludes normal wear and tear. Nothing in this warranty is intended to limit any manufacturer's warranty which provides the Agency with greater warranty rights.

**6-8.2.2 Correction Period** For a period of one (1) year from the date of acceptance of the Work by the Agency, the Contractor shall repair or replace any defective workmanship or materials or Work not in conformance with the Contract Documents after notice to do so from the Engineer, and within the time specified in the notice. If the Contractor fails to make such repair or replacement within the time specified in the notice, the Agency may perform the repair or replacement and the Contractor and the Contractor's sureties shall be liable for the cost thereof. The one (1) year period referenced in this section 6-8.2.2 applies only to the Contractor's obligation to repair or replace defective workmanship or materials or Work not in conformance with the Contract Documents and is not intended to constitute a period of limitations for any other rights or remedies the Agency may have regarding the Contractor's other obligations under the Contract Documents.

**6-8.3 No Waiver of Legal Rights.** The Agency shall not be precluded or estopped by any measurement, estimate, or certificate made either before or after the completion and Acceptance of the Work and payment therefor from showing the true amount and character of the Work performed and materials furnished by the Contractor, nor from showing that any such measurement, estimate, or certificate is untrue or is incorrectly made, nor that the Work or materials do not in fact conform to the Contract.

The Agency shall not be precluded or estopped, notwithstanding any such measurement, estimate, or certificate and payment in accordance therewith, from recovering from the Contractor or its sureties, or both, such damages as it may sustain by reason of the Contractor's failure to comply with the terms of the Contract.

Neither the Acceptance by the Engineer or by its representative, nor any payment for or Acceptance of the whole or any part of the Work, nor any extension of time, nor any possession taken by the Engineer shall operate as a waiver of any portion of the Contract or of any power herein reserved, or of any right to damages.

A waiver of any breach of the Contract shall not be held to be a waiver of any other or subsequent breach.

**6-8.4 Landscape Maintenance Period.** Final Acceptance of the Contract shall follow the satisfactory completion of all Contract Work, including the landscape maintenance period if one is specified.

**6-8.5 Non-complying Work.** Neither the final certificate of payment nor any provision in the Contract Documents, nor partial or entire occupancy of the premises by the Agency, shall constitute an Acceptance of Work not done in accordance with the Contract Documents or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty materials or workmanship.

**6-8.6 Written Warranties.** The Contractor shall obtain and deliver to the Engineer all written warranties required to be furnished by the Specifications. Each of such warranty shall be underwritten by the Contractor for the full period prescribed therein, and shall bear its endorsement to such effect.

**6-9 LIQUIDATED DAMAGES.** Failure of the Contractor to complete the Work within the time allowed will result in damages being sustained by the Agency. Such damages are, and will continue to be, impracticable and extremely difficult to determine. For each consecutive calendar day in excess of the time specified, as adjusted in accordance with 6-6, for completion of the Work the Contractor shall pay to the Agency, or have withheld from monies due it, the sum of \$250, unless otherwise provided in the Contract Documents.

Execution of the Contract under these Specifications shall constitute agreement by the Agency and Contractor that \$250 per day is the minimum value of the costs and actual damage caused by failure of the Contractor to complete the Work within the allotted time, that such sum is liquidated damages and shall not be construed as a penalty, and that such sum may be deducted from payments due the Contractor if such delay occurs.

**6-10 USE OF IMPROVEMENT DURING CONSTRUCTION.** The Agency reserves the right to take over and utilize all or part of any completed facility or appurtenance. The Contractor will be notified in writing in advance of such action. Such action by the Agency will relieve the Contractor of responsibility for injury or damage to said completed portions of the improvement resulting from use by public traffic or from the action of the elements or from any other cause, except injury or damage resulting from the Contractor's operations or negligence. The Contractor will not be required to reclean such portions of the improvement before field completion, except for cleanup made necessary by its operations. Nothing in this section shall be construed as relieving the Contractor from full responsibility for correcting defective work or materials.

In the event the Agency exercises its right to place into service and utilize all or part of any completed facility or appurtenance, the Agency shall assume the responsibility and liability for injury to persons or property arising out of or resulting from the utilization of the facility or appurtenance so placed into service, except for any willful or negligent act or omission by the Contractor, Subcontractor, their officers, employees or agents.

**6-10.1 Use of Improvements - Exceptions.** The provisions of 6-10 shall not apply to projects for the repair, modification, enlargement or improvement of existing facilities that are to remain in use during construction except where a portion of the project which is completely independent from the rest of the Work can be completed and put into use by the Agency.

On projects on public roads, after satisfactory completion of an isolated section of the Work involving roadway improvements or repairs, when all temporary signs and other temporary Contractor facilities have been removed, the section is not being used as a detour, the section is no longer under the Contractor's control, and the section is opened to public traffic through the end of the Contract period, that section of the Work shall be taken over by the Agency as provided in 6-10. The Contractor shall indicate to the Engineer in writing when the conditions of this paragraph have been complied with and shall specify the limits of the section involved. Any taking over of the Work by the Agency shall be effective only when formal written notification is issued by the Agency.

**6-11 NOTICE OF POTENTIAL CLAIM FOR ADDITIONAL COMPENSATION.** Procedures for notice of claims in specific situations and circumstances are provided in the following sections:

- 3-4 ..... Changed Conditions
- 6-6.4 .... Delay and Extensions of Time
- 6-7.3 .... Contract Time Accounting

Compliance with this section is not prerequisite to assertion of a claim involving those sections or based on differences in measurements or errors of computation as to Contract quantities.

Compliance with the provisions of this section is required in all other situations and circumstances.

It is the intention of this section that differences arising between the parties under and by virtue of the Contract be brought to the attention of the Engineer at the earliest possible time in order that such matters may be settled, if possible, or other appropriate action taken to resolve such differences.

The Contractor shall give the Engineer written notice of a potential claim, setting forth: (1) the reasons for which the Contractor believes additional compensation will or may be due; (2) the nature of the costs involved; and (3) insofar as possible, the amount of the potential claim.

If the claim is based upon an act or failure to act by the Engineer, the said notice must be given to the Engineer prior to the date when the work giving rise to the potential claim is commenced; in all other cases the said notice must be given to the Engineer within 15 Days after the happening of the event, thing or occurrence giving rise to the potential claim.

The Contractor shall not be entitled to the payment of any additional compensation where the written notice of potential claim has not been given to the Engineer in the manner required by and within the time limitations of this section.

## **6-12 DISPUTES AND CLAIMS; PROCEDURE.**

**6-12.1 GENERAL.** Any and all decisions made on appeal pursuant to this section shall be in writing. Any "decision" purportedly made pursuant to this section which is not in writing shall not be binding upon the Agency and should not be relied upon by the Contractor.

Filing or giving the notices required under 3-4, 6-6.4, 6-7.3 and 6-11 is prerequisite to recovery under a Contractor's claim for additional compensation; nothing in this section shall excuse the Contractor from its duty to file or give the required notices, or from performing other duties required by the Contract Documents.

**6-12.2 ADMINISTRATIVE REVIEW.** Prior to proceeding under 6-12.3 or filing a Complaint in Arbitration, the Contractor shall exhaust its administrative remedies by submitting its claim for review and decision by the following Agency staff in the following sequence:

Project Manager, responsible for the project  
Department Director (Public Works Agency), responsible for the project.  
Director of the Public Works Agency (the Engineer)

If the Contractor disputes the Project Manager's decision on its claim, the Contractor shall submit the claim to the Department Director. If the Contractor disputes the Department Director's decision on its claim, the Contractor shall submit the claim to the Engineer. Agency staff decisions shall state the portion of the claim that is undisputed if any.

The Project Manager may elect to forward a claim submitted by the Contractor directly to the Department Director. The Project Manager must give the Contractor notice of that election and the Contractor may supplement its claim within 7 Days of such notice (unless the parties agree in writing to a different time) and its claim will be deemed submitted on the earlier of the day it supplements its claim, the day it states in writing that it will not supplement its claim or the day time to supplement expires. The Department Director may forward a claim timely submitted by the Contractor directly to the Engineer instead of making a decision on the claim, in which case no notice or opportunity to supplement the claim is required, and the claim shall be deemed timely submitted to the Engineer.

The Engineer's decision on the claim shall be the Agency's final decision.

Claims submitted to the Department Director and the Engineer shall be submitted in writing and shall include:

- a. A copy of the disputed decision.
- b. A statement as to why the Contractor believes the decision is in error.
- c. All information, argument, documents and evidence (collectively, materials) that the Contractor wishes to have considered in the review. Where the request for review is made to the Engineer, in lieu of resubmitting materials which have already been submitted to the Department Director, the Contractor may include with the request a list of the materials the Contractor wants the Engineer to consider. Any additional materials and evidence not previously submitted to the Department Director shall be included with the request to the Engineer, if the Contractor wishes them to be considered. If relevant evidence is not available at the time the request is made to the Department Director or the Engineer, the Contractor shall identify such evidence and include a statement as to when such evidence will be submitted.

The Project Manager shall issue a decision on a claim within 10 Days of receipt; if the Project Manager does not do so, then the Project manager will be deemed to have decided to reject the claim in its entirety as of the conclusion of the 10th Day after receipt. The Contractor shall submit a claim to the Department Director for review and decision within 7 Days of receipt of the Project Manager's decision or of the time the Project Manager is deemed to have decided to reject the claim, whichever is applicable. The Department Director shall issue a decision on a claim within 10 Days of the timely submission of the claim; if the Department Director does not do so, then the Department Director will be deemed to have decided to reject the claim in its entirety as of the conclusion of the 10th Day after timely submission. The Contractor shall submit a claim to the Engineer for review and decision within 7 Days of receipt of the Department Director's decision or of the time the Department Director is deemed to have decided to reject the claim, whichever is applicable. If a claim is timely submitted to the Engineer and the Engineer fails to issue a decision on that claim within the time limits prescribed for issuing a written statement under Public Contract Code, section 9204, subdivision (d)(1), the Engineer shall be deemed to have decided to reject the claim in its entirety. At any time after the Project Manager receives a claim, the Agency and Contractor may agree in writing to different time limits than those set forth in this paragraph.

**6-12.3 MEET AND CONFER; MEDIATION** If the Contractor disputes the Agency's final decision, the Contractor may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the Agency shall schedule a meet and confer conference within 30 Days for settlement of the dispute.

Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the Agency shall provide the Contractor a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 Days after the Agency issues its written statement. Any disputed portion of the claim, as identified by the Contractor in writing, shall be submitted to nonbinding mediation, with the Agency and the Contractor sharing the associated costs equally. The Agency

and Contractor shall agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the Agency and Contractor cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside this section.

For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.

Failure by the Agency to meet the time requirements of this section shall result in the portion of the claim that remains in dispute being deemed rejected in its entirety.

The parties may agree to waive, in writing, mediation under this section.

**6-12.4 ARBITRATION.** Claims and disputes arising under or related to the performance of the Contract, for which mediation under 6-12.3 was waived or unsuccessful except for claims which have been released by execution of the "Release on Contract" as provided in 9-4, shall be resolved by arbitration unless the Agency and the Contractor agree in writing, after the claim or dispute has arisen, to waive arbitration and to have the claim or dispute litigated in a court of competent jurisdiction. Arbitration shall be pursuant to Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2 of the Public Contract Code and the regulations promulgated thereto, Chapter 4 (commencing with Section 1300) of Division 2 of Title 1 of the California Code of Regulations. The arbitration decision shall be decided under and in accordance with California law, supported by substantial evidence and, in writing, contain the basis for the decision, findings of fact, and conclusions of law.

Arbitration shall be initiated by a Complaint in Arbitration made in compliance with the requirements of said Chapter 4. A Complaint in Arbitration by the Contractor shall be filed not later than 90 calendar Days after receipt of the final written decision of the Agency on the claim or dispute or within 300 Days after Acceptance of the Work by the Agency if no written decision has been issued. For the purposes of this section, "Acceptance of the Work by the Agency" shall be defined as the date the Notice of Completion is filed.

Where an election is made by either party to use the Simplified Claims Procedure provided under Sections 1340-1346 of said Chapter 4, the parties may mutually agree to waive representation by counsel.

All contracts valued at more than \$25,000 between the Contractor and its subcontractors and suppliers shall include a provision that the subcontractors and suppliers shall be bound to the Contractor to the same extent that the Contractor is bound to the Agency by all terms and provisions of the Contract, including this arbitration provision.

## **6-13 CONTRACTOR'S WORK HOURS**

**6-13.1 Working Hours Limitations.** Except as otherwise specified, no work shall be performed by the Contractor at the Work site between the hours of 7:00 p.m. and 7:00 a.m. the following day, nor shall work be performed on Saturdays, Sundays or holidays listed in 6-7.2.1.

**6-13.2 Regular Work Schedule.** The Contractor shall furnish a work schedule with the Construction Schedule required by 6-1 and inform the Engineer at least two Days in advance of changing the schedule. The schedule shall include the times for starting and ending work on each day. Such starting and ending times shall not be more than 10 1/2 hours apart.

**6-13.3 Exceptions.** The limitations on working hours and days shall not apply to emergency work made necessary by unusual conditions where such work is necessary to protect the Work, to protect the property of others, to protect life, or to ensure the orderly flow of traffic.

The limitations of this section shall not apply where work at times other than allowed by 6-13.1 and 6-13.2 is necessary in order to make utility connections or is required by other provisions contained in these Specifications in order to perform the work in the manner specified. In these cases, the Contractor shall obtain prior written approval of the Engineer at least two Days in advance of performing the work.

## SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

### 7-1 THE CONTRACTOR'S EQUIPMENT AND FACILITIES.

**7-1.1 General.** The Contractor shall furnish and maintain in good condition all equipment and facilities as required for the proper execution and inspection of the Work.

The Contractor shall provide and maintain enclosed toilets for the use of employees engaged in the Work. These accommodations shall be maintained in a neat and sanitary condition, and regularly pumped out.

**7-1.2 Temporary Utility Services.** The Contractor shall, at its own expense, make all arrangements necessary for the provision of temporary utility services necessary for its own use during performance of the Work.

The Contractor shall not draw water from any fire hydrant (except to extinguish a fire), without obtaining permission from the water utility owner.

**7-1.3 Crushing and Screening Operations.** Unless otherwise specified in the Special Provisions, the establishment and operation of portable screens and crushers will not be allowed on or adjacent to the Work site.

### 7-2 LABOR

**7-2.1 General.** The Contractor, its agents, and employees shall be bound by and comply with applicable provisions of the Labor Code and Federal, State, and local laws related to labor.

Any worker found by the Engineer to be incompetent, intemperate, troublesome, disorderly, or otherwise objectionable, or who fails to perform the Work properly and acceptably, shall be immediately removed from the Work site by the Contractor and shall not be reemployed in the performance on the Work.

**7-2.1.1 Special Qualifications.** Where the Engineer determines certain portions of the Work require experience, training, certification or other special qualifications that may not be possessed by the average journeyman, such portions of the Work will be specifically identified in the Special Provisions and the special qualifications identified.

When work requiring special qualifications is being performed, a person with such qualifications must be in immediate charge of the work. The person may be a lead journeyman, foreman or trade superintendent. The general superintendent or a foreman who is not specifically assigned to the area where the identified work is being performed will not be considered to be in immediate charge of the work.

Written certification of the required qualifications shall be furnished to the Engineer at least one week prior to the time work is commenced on the work requiring such qualifications. Such certification is subject to review and acceptance by the Engineer. If, during performance of work requiring special qualifications, the qualified person becomes temporarily or permanently unavailable to the Contractor, work shall not proceed until a qualified replacement has been accepted by the Engineer. The Engineer will promptly consider the certification of the replacement.

If identified work is performed without a person having the special qualifications in charge, the Engineer may, at its sole discretion, order such work removed and replaced at the Contractor's expense.

If, after certification is accepted, the Engineer finds that the certification was inaccurate, or work on the project indicates a lack of the knowledge and experience to supervise the work, the Engineer may order the work stopped until an acceptable replacement has been certified, accepted and is in charge.

**7-2.2 Prevailing Wages.** Pursuant to Section 1773.2 of the Labor Code, the current prevailing rate of per diem wages at the time of the Bid as determined by the Director of the Department of Industrial Relations (DIR) are on file at the office of the Engineer. The Contractor shall post a copy of these rates at the Work site. Pursuant to Section 1774 of the Labor Code, the Contractor and any Subcontractors shall pay not less than the specified prevailing rates of wages to workers employed on the Contract. If the Contract is Federally-funded, the Contractor and any Subcontractors shall not pay less than the higher of these rates or the rates determined by the United States Department of Labor. Pursuant to Section 1775 of the Labor Code, the Contractor and any Subcontractors, shall, as a penalty to the Agency, forfeit the prescribed amounts per calendar day, or portion thereof, for each worker paid less than the prevailing wage rates. The project is subject to the compliance monitoring and enforcement by the California Department of Industrial Relations (DIR). The contractor is responsible for posting job site notices as prescribed by regulation pursuant to Labor Code section 1771.4, subdivision (a)(2). The Contractor and each Subcontractor, if any, must be registered with the DIR pursuant to Labor Code section 1725.5 and section 1771.1. The Contractor and each Subcontractor, if any, must submit certified payrolls to the Labor Commissioner pursuant to Labor Code 1771.4.

**7-2.2.1 Apprentices.** Apprentices shall be employed on the Work in accordance with Labor Code Section 1777.5. The Contractor is responsible for compliance with Labor Code Section 1777.5 for all apprenticeable occupations whether employed directly or through subcontractors.

**7-2.2.2 Contractors' Duties Concerning Labor Code Compliance.** As required by Labor Code 1775(b)(1), Labor Code Sections 1771, 1775, 1776, 1777.5, 1813 and 1815 are required to be included in the contract between the Contractor and subcontractors. The Contractor agrees to comply with these sections and all remaining provisions of the Labor Code.

**7-2.3 Payroll Records.** Pursuant to Section 1776 of the Labor Code the Contractor and each Subcontractor, if any, shall keep, make available, and submit to the Engineer within ten (10) days of receipt of a written request,

certified payroll records. Pursuant to Labor Code section 1776, subsection (h), the Contractor and each Subcontractor, if any, shall, as a penalty to the Agency, forfeit the prescribed amount for each calendar day, or portion thereof, for each worker, the Contractor and each Subcontractor, if any, fails to comply with that subsection until strict compliance is effectuated. The Contractor and each Subcontractor, if any, waives any right to any notice or hearing on the forfeiture of such penalties pursuant to Labor Code sections 1726 or 1771.6. The contractor shall include the in its subcontracts as required to make this paragraph effective as to each Subcontractor. Upon written request, the Contractor shall withhold penalties forfeited by a Subcontractor pursuant to Labor Code section 1776, subsection (h), and this paragraph from payment due to such Subcontractor and remit such penalties withheld to the Agency.

**7-2.4 Hours of Labor.** Pursuant to Section 1810 of the Labor Code, 8 hours of labor shall constitute a legal day's work. Pursuant to Section 1813 of the Labor Code, the Contractor and any Subcontractors, shall, as a penalty to the Agency, forfeit the prescribed amount per calendar day for each worker required or permitted to work more than 8 hours in any 1 calendar day and 40 hours in any 1 calendar week without being compensated in accordance with Section 1815.

Pursuant to Section 1810 of the Labor Code, 8 hours of labor shall constitute a legal day's work. Pursuant to Section 1813 of the Labor Code, the Contractor and each Subcontractor, if any, shall, as a penalty to the Agency, forfeit the prescribed amount per calendar day for each worker required or permitted to work more than 8 hours in any 1 calendar day and 40 hours in any 1 calendar week without being compensated in accordance with Section 1815. Contractor and each Subcontractor, if any, waives any right to any notice or hearing on the forfeiture of such penalties pursuant to Labor Code sections 1726 and 1771.6. Contractor shall include terms in its subcontracts as required to make this paragraph effective as to each Subcontractor. Upon written request, Contractor shall withhold penalties forfeited by a Subcontractor pursuant to Labor Code section 1813 and this paragraph from payments due to such Subcontractor and remit such penalties withheld to the Agency

### **7-3 INDEPENDENCE OF CONTRACTOR, INDEMNIFICATION AND POLLUTION**

**7-3.1 Independence of Contractor.** It is understood and agreed that Contractor is at all times an independent contractor and that no relationship of employer-employee exists between the parties hereto. Contractor will not be entitled to any benefits payable to employees of County, including but not limited to overtime, retirement benefits, workers' compensation benefits, injury leave or other leave benefits. County is not required to make any tax or benefit deductions from the compensation payable to Contractor under the provisions of this Agreement. As an independent contractor, Contractor hereby holds County harmless from any and all claims that may be made against County based upon any contention by any third party that an employer-employee relationship exists by reason of the Agreement.

If, in the performance of this Agreement, any third persons are employed by Contractor, such persons will be entirely and exclusively under the direction, supervision and control of Contractor. All terms of employment, including hours, wages, working conditions, discipline, hiring and discharging or any other terms of employment or requirements of law, will be determined by Contractor. County will have no right or authority over such persons or the terms of such employment, except as provided in this Agreement.

**7-3.2 Indemnification and Hold Harmless Clause.** All activities arising out of or relating to the performance of the Work covered by this Contract shall be at the risk of Contractor. To the fullest extent permitted by law, Contractor shall defend (at Agency's request), indemnify and hold harmless Agency, and the County of Ventura if the County of Ventura is not the entity defined as Agency under this Contract, including all of their boards, agencies, departments, officers, employees, agents and volunteers (collectively, "Indemnatee"), against any and all claims, suits, actions, legal or administrative proceedings, judgments, debts, demands, damages, including injury or death to any person or persons, and damage to any property including loss of use resulting therefrom, incidental and consequential damages, liabilities, interest, costs, attorneys' fees and expenses of whatsoever kind of nature, whether arising before, during or after commencement or completion of this Contract, whether against Contractor and Indemnatee or which are in any manner, directly, indirectly, in whole or in part, arising from any act, omission, fault or negligence, whether active or passive, of Contractor, a Subcontractor or anyone directly or indirectly employed by them or anyone for whose acts they may be liable in connection with or incident to the Contract, even though the same may have resulted from the joint, concurring or contributory negligence, or from the passive negligence, of Indemnatee or any other person or persons, unless the same be caused by the sole negligence of Indemnatee, or except to the extent caused by the active negligence or willful misconduct of Indemnatee.

The Agency will notify the Contractor of the receipt of any third party claims.

**7-3.3 Contamination and Pollution.** Contractor, solely at its own cost and expense, will provide clean up of any premises, property or natural resources contaminated or polluted due to Contractor activities. Any fines, penalties, punitive or exemplary damages assigned due to contaminating or polluting activities of the Contractor will be borne entirely by the Contractor.

### **7-4 INSURANCE REQUIREMENTS**

Contractor, at its sole cost and expense, shall obtain and maintain in full force during the term of this Contract the following types of insurance:

#### **7-4.1 Workers' Compensation Insurance.**

**7-4.1.1 Coverage.** Workers' Compensation coverage, in full compliance with Labor Code 3700, for all employees of Contractor and Employer's Liability in the minimum amount of \$1,000,000. The Agency, the County of Ventura, its officers, employees or Consultants, will not be responsible for any claims in law or equity occasioned by failure of Contractor to comply with this paragraph.

**7-4.1.2 Certification.** Before execution of the Contract by Agency, Contractor shall file with the Engineer the following signed certification:

"I am aware of the provisions of Section 3700 of the Labor Code which require 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."



## **7-4.2 Commercial General Liability Insurance**

### **7-4.2.1 Minimum Limits and Scope; Insurance Classes.** "Occurrence" coverage in the minimum amount of:

<u>Coverage Class</u>	<u>Coverage</u>
L-A	\$ 1,000,000 combined single limit (CSL) bodily injury and property damage each occurrence and \$1,000,000 aggregate
L-B	\$ 1,000,000 CSL bodily injury and property damage each occurrence and \$2,000,000 aggregate
L-C	\$ 5,000,000 CSL bodily injury and property damage each occurrence and \$5,000,000 aggregate
L-D	\$ 10,000,000 CSL bodily injury and property damage each occurrence and \$10,000,000 aggregate

If no coverage class is specified in "Proposal", coverage class L-B shall apply.

If Contractor maintains higher limits than the minimums shown above, the Agency requires and shall be entitled to coverage for the higher limits maintained by the Contractor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the Agency.

Coverages shall include premises/operations; products/completed operations; independent contractors; underground, explosion and collapse hazards; personal and advertising injury; broad form property damage; and broad form blanket contractual.

**7-4.2.2 Coverage Exceptions.** On projects where no explosives will be used and no demolition is involved, the coverage for explosion may be omitted. On projects where no excavation is involved, the coverage for underground hazard may be omitted. The omission of said coverages is at Agency's option, and shall not abrogate Contractor's responsibilities for indemnification as set forth in these Specifications.

**7-4.2.3 Excess Liability Policies.** All Excess Liability policies, if used, shall be on an "umbrella" or following form of the primary layer of coverage.

### **7-4.3 Commercial Automobile Liability Insurance**

Coverage in the minimum amount of \$1,000,000 CSL bodily injury and property damage, including automobile liability, any auto.

### **7-4.4 Property Insurance**

Contractor shall arrange for its own "Course of Construction" insurance on the project to protect its interests, as Agency does not have this coverage.

Contractor is responsible for delivering to Agency Work completed in accordance with the Contract except as provided in 7-18 (Acts of God). Should the Work being constructed be damaged by fire or other causes during construction, it shall be replaced by Contractor in accordance with the requirements of the Plans and Specifications without additional expense to Agency.

### **7-4.5 Other Insurance Provisions.**

**7-4.5.1 Insurance Company Qualifications.** All insurance required shall be issued by (a) an admitted company or admitted companies authorized to transact business in the State of California which have a BEST rating of B+ or higher and a Financial Size Category (FSC) of VII or larger or (b) a California approved Surplus Line carrier or carriers which have a BEST rating of A or higher and a Financial Size Category (FSC) of VII or larger.

Workers compensation insurance not meeting the above requirements but meeting all other requirements of the specifications, will be accepted.

**7-4.5.2 Primary Coverage.** All insurance required shall be primary coverage as respects Agency and any insurance or self-insurance maintained by Agency or the County of Ventura shall be in excess of Contractor's insurance coverage and shall not contribute to it.

**7-4.5.3 Aggregate Limits Exceeded.** Agency shall not be notified immediately if any aggregate insurance limit is exceeded. Contractor shall purchase additional coverage to meet requirements.

**7-4.5.4 Liability in Excess of Limits.** Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve Contractor for liability in excess of such coverage, nor shall it preclude Agency or the County of Ventura from taking such other actions as is available to it under any other provisions of this Contract or otherwise in law.

**7-4.5.5 Additional Insured Endorsements.** The Agency, the County of Ventura (if not defined as Agency) and all special Districts governed by the County of Ventura Board of Supervisors, and their officials, employees, and volunteers shall be named as Additional Insured as respects Work done by or on behalf of Contractor under the Contract on all policies required (except workers' compensation). With respect to Contractor's commercial general Liability insurance, Additional Insured coverage shall include both ongoing and completed operations.

**7-4.5.6 Waiver of Subrogation Rights.** Contractor agrees to waive all rights of subrogation against the Agency, the County of Ventura, including its boards, and all special Districts governed by the Board of Supervisors, for losses arising directly or indirectly from the activities or Work performed by Contractor under the Contract (applies only to Workers' Compensation and Commercial General Liability).

**7-4.5.7 Cancellation Notice Required.** In the case of policy cancellation, Agency shall be notified by the insurance company or companies as provided for in the policy. Contractor shall notify Agency of any and all policy cancellations within three working days of the cancellation.

**7-4.5.8 Documentation Required.** Prior to execution of the Contract by Agency, Contractor shall provide Agency with Certificates of Insurance for all required coverages (see Appendix A for example), all required endorsement(s) and a copy of its course of insurance policy.

It is the responsibility of Contractor to confirm that all terms and conditions of Section 7-4 Insurance Requirements are complied with by any and all subcontractors that Contractor may use in the completion of the Contract.

**7-5 PERMITS.** The Agency will obtain, at no cost to the Contractor, all encroachment and building permits necessary to perform Contract Work in streets, highways, railways or other rights of way, unless the necessity for such permit(s) is created by a method of operation chosen by the Contractor. The Contractor shall obtain and pay for all costs incurred for permits necessitated by its operations such as, but not limited to, those permits required for night Work, overload, blasting and demolition.

The Contractor shall pay all business taxes or license fees that are required for the Work.

**7-5.1 Highway and Railroad Permits.** The Engineer will obtain the basic State highway and railroad encroachment permits which will include checking of plans. However, the Contractor must also obtain permits from these agencies. Inspection fees charged by these agencies must be paid by the Contractor.

#### **7-5.2 Grading Ordinance**

**7-5.2.1 General.** All excavation, filling and grading operations in Ventura County are governed by the Ventura County Grading Ordinance or City Ordinances, except within the project right of way shown on the Plans.

**7-5.2.2 Permits Required.** Work outside the project right of way which involves excavation or filling of soils is subject to all requirements of the applicable grading ordinance. The requirements may include, but are not limited to, submitting of a grading plan prepared by a Civil Engineer, obtaining a grading permit, paying the permit fee, posting a grading bond, hiring professionals for engineering and testing services, compacting fills, constructing drainage facilities and providing erosion protection.

**7-5.2.3 Imported and Exported Material.** To insure that neither the Agency nor the Contractor is a party to aiding or abetting any property owner (who is ultimately responsible) to violate the applicable grading ordinance, no material shall be imported from or exported or wasted outside the project right of way until the Contractor has furnished the Engineer a copy of the grading permit covering such operation on land where material is to be deposited or excavated, unless exempt.

**7-5.2.4 Exemptions from Permit.** No grading permit is required of the Contractor for Work performed within the project right of way shown on the Plans or on borrow or disposal areas shown on the Plans or described in the Special Provisions and which are specifically designated as being exempt from such permit requirements.

#### **7-5.3 Building Permit.**

**7-5.3.1 Agency Furnished Permits.** Except as provided in **7-5.3.2**, Agency will submit the plans for the Work to Department of Building and Safety, and other building related permit issuing agencies, for plan check and make the corrections necessary for the issuance of building and related permits. Agency will Pay plan check and permit fees for the Work. The Contractor may be required to furnish information to the permit issuing agencies, as required for the issuance of permits, and sign the permit.

**7-5.3.2 Contractor Furnished Permits.** Components or systems, required by the Contract, may require the preparation of plans and calculations to obtain approvals or permits from state or local building, fire prevention, public health, safety, environmental protection and other agencies in addition to the basic permits arranged for by the Agency as provided in **7-5.3.1**. Contractor shall take all actions in a timely manner to obtain such approvals or permits so as not to delay completion of the Work beyond the time provided in **6-7**. Contractor shall include all costs and consider the time required to obtain approvals or permits in the Contract price bid.

#### **7-5.4 Coastal Zone Permits**

**7-5.4.1 Agency Furnished Permits.** Permits required for Work on the project within rights of way furnished by the Agency within the Coastal Zone will be obtained by the Agency.

**7-5.4.2 Contractor Furnished Permits.** Permits required for the Contractor's operations outside of rights of way furnished by the Agency must be obtained by the Contractor. Such permits are required for brush removal, grading, dredging, disposal of material and many other operations within the Coastal Zone.

**7-6 THE CONTRACTOR'S REPRESENTATIVE.** Before starting work, the Contractor shall designate in writing a representative who shall have complete authority to act for it. An alternative representative may be designated as well. The representative or alternate shall be present at the Work site whenever work is in progress or whenever actions of the elements necessitate its presence to take measures necessary to protect the Work, persons, or property. Any order or communication given to this representative shall be deemed delivered to the Contractor. A joint venture shall designate only one representative and alternate. In the absence of the Contractor or its representative, instructions or directions may be given by the Engineer to the superintendent or person in charge of the specific work to which the order applies. Such order shall be complied with promptly and referred to the Contractor or its representative.

In order to communicate with the Agency, the Contractor's representative, superintendent, or person in charge of specific work shall be able to speak, read, and write the English language.

**7-7 COOPERATION AND COLLATERAL WORK.** The Contractor shall be responsible for ascertaining the nature and extent of any simultaneous, collateral, and essential work by others. The Agency, its workers and contractors and others, shall have the right to operate within or adjacent to the Work site during the performance of such work.

The Agency, the Contractor, and each of such workers, contractors and others, shall coordinate their operations and cooperate to minimize interference.

The Contractor shall include in its Bid all costs involved as a result of coordinating its work with others. The Contractor will not be entitled to additional compensation from the Agency for damages resulting from such simultaneous, collateral, and essential work. If necessary to avoid or minimize such damage or delay, the Contractor shall redeploy its work force to other parts of the Work.

Should the Contractor be delayed by the Agency, and such delay could not have been reasonably foreseen or prevented by the Contractor, the Engineer will determine the extent of the delay, the effect on the Work, and any extension of time.

## **7-8 WORK SITE MAINTENANCE**

**7-8.1 General** Throughout all phases of construction, including suspension of the Work, and until acceptance per 6-8, the Contractor shall keep the Work site clean and free from rubbish and debris. Rubbish and debris collected on the Work site shall only be stored in roll-off, enclosed containers prior to disposal. Stockpiles of such will not be allowed.

When required by the Special Provisions, the Contractor shall provide a self-loading motorized street sweeper equipped with a functional water spray system. The sweeper shall clean all paved areas within the Work site and all paved haul routes at least once each working day.

The Contractor shall ensure there is no spillage along haul routes. Any such spillage shall be removed immediately and the area cleaned.

Should the Contractor fail to keep the Work site free from rubbish and debris, the Engineer may suspend the Work per 6-3 until the condition is corrected.

**7-8.2 Air Pollution Control** The Contractor shall not discharge smoke, dust, equipment exhaust, or any other air contaminants into the atmosphere in such quantity as will violate any Federal, State, or local regulations.

The Contractor shall also abate dust nuisance by cleaning, sweeping and spraying with water, or other means as necessary. The use of water shall conform to 7-8.6.

**7-8.3 Noise Control.** Noise generated from the Contractor's operations shall be controlled as specified in the Special Provisions.

### **7-8.4 Storage of Equipment and Materials.**

**7-8.4.1 General** Materials and equipment shall be removed from the Work site as soon as they are no longer necessary. Before inspection by the Engineer for acceptance, the Work site shall be cleared of equipment, unused materials, and rubbish so as to present a satisfactory clean and neat appearance.

Excess excavated material shall be removed from the Work site immediately unless otherwise specified in the Special Provisions.

Forms and form lumber shall be removed from the Work site as soon as practicable after stripping.

**7-8.4.2 Storage in Public Streets.** Construction materials and equipment shall not be stored in streets, roads, or highways for more than 5 days after unloading unless otherwise specified in the Special Provisions or approved by the Engineer. All materials or equipment not installed or used in construction within 5 days after unloading shall be stored at a location approved by the Engineer.

Excavated material, except that which is to be used as backfill in the adjacent trench, shall not be stored in public streets unless otherwise specified in the Special Provisions or approved by the Engineer. Immediately after placing backfill, all excess material shall be removed from the Work site.

## **7-8.5 Sanitary Sewers.**

**7-8.5.1 General.** The flow of sewage shall not be interrupted. Should the Contractor disrupt the operation of existing sanitary sewer facilities, or should disruption be necessary for performance of the Work, the Contractor shall bypass the sewage flow around the Work. Sewage shall be conveyed in closed conduits and disposed of in a sanitary sewer system. Sewage shall not be permitted to flow in trenches nor be covered by backfill.

Whenever sewage bypass and pumping is required by the Plans or Specifications, or the Contractor so elects to perform, the Contractor shall submit per 2-5.3 a working drawing conforming to 7-8.5.2 detailing its proposed plan of sewage bypass and pumping.

**7-8.5.2 Sewage Bypass and Pumping Plan.** The plan shall indicate the locations and capacities of all pumps, sumps, suction and discharge lines. Equipment and piping shall be sized to handle the peak flow of the section of sewer line to be bypassed and pumped. Equipment and piping shall conform to 7-10, the Plans, and the Special Provisions. Bypass piping, when crossing areas subject to traffic loads, shall be constructed in trenches with adequate cover and otherwise protected from damage due to traffic. Lay-flat hose or aluminum piping with an adequate casing and/or traffic plates may be allowed if so approved by the Engineer. Bypass pump suction and

discharge lines that extend into manholes shall be rigid hose or hard pipe. Lay flat hose will not be allowed to extend into manholes. The Contractor shall provide a backup bypass pumping system in case of malfunction. The backup bypass system shall provide 100 percent standby capability, and be in place and ready for immediate use.

Each standby pump shall be a complete unit with its own suction and discharge piping. In addition to the backup system, the Contractor shall furnish and operate vacuum trucks when required by the Plans or Special Provisions.

**7-8.5.3 Spill Prevention and Emergency Response Plan.** The Contractor shall prepare and submit per 2-5.3 a spill prevention and emergency response plan. The plan shall address implementation of measures to prevent sewage spills, procedures for spill control and containment, notifications, emergency response, cleanup, and spill and damage reporting.

The plan shall account for all storm drain systems and water courses within the vicinity of the Work which could be affected by a sewage spill. Catch basins that could receive spilled sewage shall be identified Unless otherwise specified in the Special Provisions, these catch basins shall be sealed prior to operating the bypass and pumping system. The Contractor shall remove all material used to seal the catch basins when the bypass and pumping system operations are complete.

The Contractor shall be fully responsible for containing any sewage spillage, preventing any sewage from reaching a watercourse, recovery and legal disposal of any spilled sewage, any fines or penalties associated with the sewage spill imposed upon by the Agency and/or the Contractor by jurisdictional regulatory agencies, and any other expenses or liabilities related to the sewage spill.

**7-8.6 Water Pollution Control** The Contractor shall prevent, control, and abate discharges of pollutants from the construction site in order to protect the storm drain system, which includes pipes, channels, streams, waterways, and other bodies of water, by the construction, installation or performance of water pollution control measures as shown on the Stormwater Pollution Control Plan (SWPCP) or Stormwater Pollution Prevention Plan (SWPPP) depending on the land area affected by the construction activity. The Contractor shall ensure compliance with the current State NPDES General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activity (General Construction Permit), NPDES No. CAS000002 and current Ventura County NPDES Municipal Separate Storm Sewer System (MS4) Permit No. CAS004002.

## **7-8.6.1 Compliance with NPDES General Construction Permit**

### **7-8.6.1.1 Construction Sites**

If the Work involves construction activity that results in soil disturbance of one acre or more of total land area, or results in soil disturbances of less than one acre but is a part of a work area larger than one acre, the Contractor shall comply with the requirements of the General Construction Permit NPDES No. CAS000002. Construction activity includes clearing, grading, excavation, stockpiling, and reconstruction of existing facilities involving removal and replacement. Construction activity does not include routine maintenance such as, maintenance of original line and grade, hydraulic capacity, or original purpose of the facility.

The Contractor shall comply with requirements of the General Construction Permit (NPDES No. CAS000002), obtained by the Agency, including a site-specific Storm Water Pollution Prevention Plan (SWPPP) for the Work to be developed by Qualified SWPPP Developer (QSD) and implemented by the Qualified SWPPP Practitioner (QSP). After July 1, 2010, the Agency will electronically file all required Permit Registration Documents (PRDs) through the State Water Board's Stormwater Multi-Application and Report Tracking System (SMARTS) website, as required prior to the commencement of construction activity. PRDs consist of the Notice of Intent (NOI), Risk Assessment, Post-Construction Calculations, a Site Map, the SWPPP, a signed certification statement by the Legally Responsible Party (LRP), and the first annual fee. For the Permit application, the Contractor shall submit to Project Manager the following:

- The completed site-specific Risk Assessment
- Post-construction calculations if applicable for the project, and
- Site-specific SWPPP developed in accordance with applicable Permits.

**7-8.6.1.2 Linear Utility Projects;** Contractor shall comply with the requirements of the General Construction Permit NPDES No. CAS000002 for Linear Underground/Overhead projects (LUPs) one acre or greater.

### **7-8.6.2 Compliance with NPDES MS4 Permit**

**7-8.6.2.1 Construction Sites Less Than One Acre** The Contractor shall ensure implementation of an effective combination of erosion and sediment control Best Management Practices (BMPs) listed in **Table 6** of the Ventura County NPDES MS4 Permit. The Contractor shall develop and implement a Storm Water Pollution Control Plan (SWPCP).

**7-8.6.2.2 Construction Sites One Acre but Less Than 5 Acres** The Contractor shall ensure implementation of an effective combination of appropriate erosion and sediment control BMPs from **Table 7** (BMPs at Construction sites 1 acre or greater but less than 5 acres) of the Ventura County NPDES MS4 Permit in addition to the ones identified in **Table 6** (BMPs at Construction sites less than 1 acre) to prevent erosion and sediment loss, and the discharge of construction wastes. For all construction sites one acre or greater, the Contractor shall submit the SWPPP to the Agency for review and certification as the Local SWPPP.

**7-8.6.2.3 Construction Sites 5 Acres and Greater** The Contractor shall ensure implementation of an effective combination of the following BMPs in **Tables 8** (BMPs at Construction sites 5 acres or greater) in addition to the ones identified in **Table 6** (BMPs at Construction sites less than 1 acre) and **Table 7** (BMPs at Construction sites 1 acre or greater but less than 5 acres) at all construction sites 5 acres and greater to prevent erosion and sediment loss, and the discharge of construction wastes. For all construction sites one acre or greater, the Contractor shall submit the SWPPP to the Agency for review and certification as the Local SWPPP.

### **7-8.6.2.4 Enhanced Construction BMP Implementation**

Construction sites located on hillsides, adjacent or directly discharging to CWA 303(d) listed waters for siltation or sediment, and directly adjacent to Environmentally Sensitive Areas are termed "high risk sites." Contractor shall implement enhanced practices that preclude impacts to water quality posed by the high risk sites. Contractor shall ensure that high risk sites are inspected by the Qualified SWPPP Developer, Qualified SWPPP Practitioner, or Certified Professionals in Erosion and Sediment Control (CPESC) at the time of BMP installation, at least weekly during the wet season, and at least once each 24 hour period during a storm event that generates runoff from the site, to identify BMPs that need maintenance to operate effectively, that have failed or could fail to operate as intended.

During the wet season, the area of disturbance shall be limited to the area that can be controlled with an effective combination of erosion and sediment control BMPs. Enhanced sediment controls should be used in combination with erosion controls and should target portions of the site that cannot be effectively controlled by standard erosion controls described above. Effective sediment and erosion control BMPs proposed by the Contractor shall include the BMPs listed in Table 9 (Enhanced Construction BMP Implementation) of the NPDES MS4 Permit. The Contractor shall implement the BMPs listed in Table 9 unless shown unnecessary. Also, the Contractor shall retain records of the inspection and a determination and rationale of the BMPs selected to control runoff.

### **7-8.6.3 Plan.**

**7-8.6.3.1** The SWPCP, required for construction projects less than one acre, shall be prepared in accordance with the requirements of current Ventura County NPDES MS4 Permit No. CAS004002 and County Ordinance No. 4142.

**7-8.6.3.2** The SWPPP, required for construction projects one acre or greater, shall be prepared in accordance with the requirements of the state's General Construction Permit NPDES Permit CAS000002, Ventura Countywide Stormwater Quality Management Program, NPDES MS4 Permit No. CAS004002, and County Ordinance No. 4142.

**7-8.6.3.3** The SWPCP/SWPPP shall identify potential pollutant sources on the construction site that may affect the quality of discharges, whether non-stormwater or stormwater, from the site and design the use and placement of water pollution control measures, BMPs, to effectively prohibit the entry of pollutants from the site into the storm drain system during construction. At a minimum, and depending on the size of the project area, the SWPCP/SWPPP will include all appropriate minimum BMPs as required by the Ventura Countywide Stormwater Quality Management Program, NPDES MS4 Permit No. CAS004002 (Tables 6 through 9). The SWPCP/SWPPP must utilize the measures recommended in the California Stormwater Quality Association (CASQA) Stormwater BMPs Handbook for Construction (January 2003 version until July 1, 2010 and 2009 version after July 1, 2010). Starting July 1, 2010 SWPPP shall be prepared by QSD as defined in the NPDES Permit CAS000002. The Contractor shall complete, sign and submit the SWPCP/SWPPP for review and final approval by the Project Engineer, prior to issuance of the Notice to Proceed as provided in 6-7.4.

**7-8.6.3.4** For all construction projects one acre and greater, the Contractor shall submit the SWPPP to the Agency for review and certification as Local SWPPP in accordance with NPDES MS4 Permit No. CAS004002 prior to the Notice to Proceed as provided in 6-7.4.

**7-8.6.4 Measures.** All water pollution control measures shall conform to the requirements of the submitted SWPCP/SWPPP. If circumstances during the course of construction require changes to the original SWPCP/SWPPP, a revised SWPCP/SWPPP shall be promptly submitted to the Project Manager in each instance. The SWPPP shall be amended or revised by QSD. A copy of the current SWPCP/SWPPP including revisions and amendments shall be kept at the site to ensure that field personnel has access to the current document at all times. If measures being taken are inadequate to control water pollution effectively, the Project Manager may direct the Contractor to revise the operations and no further work shall be performed until adequate water pollution control measures are implemented. Effective September 2, 2011, implementation of the SWPPP shall be overseen by the Contractor's QSP as defined in the General Construction Permit NPDES No. CAS000002. All work installed by the Contractor in connection with the SWPCP/SWPPP but not specified to become a permanent part of the Work shall be removed and the site restored in so far as practical to its original condition prior to completion of the Work.

**7-8.6.4.1 Post-Construction Standards;** Contractor shall ensure that applicable post-construction standards are implemented to meet applicable project requirements of the Ventura County NPDES MS4 Permit and General Construction Permit NPDES No. CAS000002 (effective September 2, 2012).

**7-8.6.4.2 Active Treatment Systems;** Contractor shall comply with requirements of the General Construction Permit NPDES No. CAS000002 for active treatment systems as applicable.

### **7-8.6.5 Monitoring and Reporting**

**7-8.6.5.1 Monitoring;** In accordance with the General Construction Permit NPDES No. CAS000002, the Contractor shall develop and implement monitoring program for Risk Level 2 and 3 sites. In addition at Risk Level 3 sites, contractor shall perform receiving water monitoring to meet Permit requirements.

**7-8.6.5.2 Reporting;** the Contractor shall ensure that all submittals and reports are prepared and submitted to the RWQCB in accordance with the applicable Permits. At minimum the reports will include Annual Report (for applicable projects due September 1<sup>st</sup>), Rain Event Action Plan (due 48 hrs prior to the rain event for the applicable projects), Numeric Action Levels (NAL) Exceedance Report (as required), Numeric Effluent Limitations (NELs) Violation Report (within 24 hours after NEL exceedance is identified). Contractor shall submit required reports to the Project Manager for review and approval prior to submittal to the RWQCB.

**7-8.6.6 Dewatering Activities.** All dewatering activities shall be performed in accordance with applicable regulatory requirements issued by the Los Angeles Regional Water Quality Control Board, including specific requirements contained in the Waste Discharge Requirements (WDR) when issued for the Work.

**7-8.6.7 Payment.** The Contract lump sum price for water pollution control shall include full compensation for furnishing all labor, materials, tools, equipment, services and incidentals and for doing all work involved in water pollution control as specified herein. Payment for water pollution control will be made as the Work proceeds, and is in compliance with the approved Water Pollution Control Plan, on the following basis.

Partial payment estimate (excluding mobilization & water pollution control payments) as a percentage of the original Contract price (excluding the mobilization & water pollution control Bid items).		Cumulative amount of water pollution control pay item earned is the lesser of the amounts as computed by these two columns.	
Equal to or greater than	Less than	Percentage of water pollution control pay item	Percentage of the original Contract total.
5	10	10	1
10	20	20	2
20	50	50	3
50	Completion of Work	75	5
Completion of Work		100	

Where no Bid item is provided for water pollution control, payment for water pollution control shall be considered to be included in the other Bid items.

**7-8.7 Drainage Control.** The Contractor shall maintain drainage within and through the Work areas. Earth dams will not be permitted in paved areas. Temporary dams of sandbags, asphaltic concrete or other acceptable material will be permitted when necessary to protect the Work, provided their use does not create a hazard or nuisance to the public. Such dams shall be removed from the site as soon as their use is no longer necessary.

**7-8.8 Final Cleaning.** At the completion of the Work, the Contractor shall remove all waste materials and rubbish from and about the project, as well as all tools, construction equipment, temporary facilities, machinery, and surplus materials.

At completion of construction and just prior to final inspection, the Contractor shall thoroughly clean the interior and exterior of the buildings, including hardware, floors, roofs, sills, ledges, glass, or other surfaces where debris, plaster, paint, spots, and dirt or dust may have collected. All glass shall be washed clean and polished. Remove all grease, stains, labels, fingerprints, and other foreign materials from interior and exterior surfaces. Repair, patch, and touch up marred surfaces to match adjacent finishes.

The Contractor shall use only experienced workmen or professional cleaners for final cleaning. It shall use only cleaning materials recommended by the manufacturer of the surface to be cleaned, and use cleaning materials only on surfaces recommended by the cleaning material manufacturer.

It shall broom-clean all paved surfaces and rake-clean other surfaces of grounds.

The Contractor shall replace air conditioning filters if units were operated during construction, and clean all ducts, blowers, and coils if air conditioning units were operated without filters during construction.

After cleaning, the Contractor shall maintain the building in a clean condition until it is accepted by the Agency.

**7-9 PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS.** The Contractor shall be responsible for the protection of public and private property adjacent to the Work and shall exercise due caution to avoid damage to such property.

The Contractor shall repair or replace all existing improvements within the right-of-way which are not designated for removal (e.g., curbs, sidewalks, driveways, fences, walls, signs, utility installations, pavement, structures, etc.) which are damaged or removed as a result of its operations. When a portion of a sprinkler system within the right-of-way must be removed, the remaining lines shall be capped. Repairs and replacements shall be at least equal to existing improvements and shall match them in finish and dimension.

Maintenance of street and traffic signal systems that are damaged, temporarily removed or relocated shall be done in conformance with 307-1.5.

Trees, lawns, and shrubbery that are not designated to be removed shall be protected from damage or injury. If damaged or removed because of the Contractor's operations, they shall be restored or replaced in as nearly the original condition and location as is reasonably possible. Lawns shall be reseeded and covered with suitable mulch.

The Contractor shall give reasonable notice to occupants or owners of adjacent property to permit them to salvage or relocate plants, trees, fences, sprinklers and other improvements which are designated for removal and would be destroyed because of the Work.

All costs to the Contractor for protecting, removing, and restoring existing improvements shall be absorbed in its bid.

In existing buildings, all surfaces, equipment, furniture and other property shall be protected from loss or damage by or as result of the Contractor's operations. The Contractor shall replace damaged property or shall repair and restore it to its previous condition. Patching, painting, replacement of wall, ceiling and floor covering and similar Work shall be done in such a manner that the repaired Work will not be readily noticeable.

## **7-10 PUBLIC CONVENIENCE AND SAFETY**

### **7-10.1 Access.**

**7-10.1.1 General.** The Contractor's operations shall cause no unnecessary inconvenience to the public or businesses in the vicinity of the Work. The Contractor shall have no greater length or quantity of Work under construction than can be properly prosecuted with a minimum of inconvenience to the public and other contractors engaged in adjacent or related work.

The Contractor shall provide continuous and unobstructed access to the adjacent properties unless otherwise specified in the Special Provisions or approved by Engineer. Work requiring traffic lane closures shall only be performed between the hours specified in the Special Provisions or shown on the TCP. Traffic shall be permitted to pass through the Work site, unless otherwise specified in the Special Provisions or shown on the TCP.

**7-10.1.1.1 Vehicular Access.** Vehicular access to residential driveways shall be maintained to the property line except when necessary construction precludes such access. If backfill has been completed to the extent that safe access may be provided and the street is opened to local traffic, the Contractor shall immediately clear the street and driveways and provide and maintain access.

**7-10.1.1.2 Pedestrian Access.** Safe, adequate, and ADA compliant pedestrian access shall be maintained unless otherwise approved by the Engineer. 7-10.2 Work Area Traffic Control.

### **7-10.2 Traffic Control**

**7-10.2.1 General.** Work area traffic control shall conform to the California MUTCD, WATCH, or as specified in the Special Provisions. The total length of the traffic control zone shall include a buffer space, advance signing, striping transitions in advance of the Work site, existing striping, signing, and raised medians.

#### **7-10.2.2 Traffic Control Plan.**

**7-10.2.2.1 General.** If so specified in the Special Provisions or on the permit, the Contractor shall submit a TCP in accordance with 2-5.3. The sheets of the TCP shall display the title, phase identification, name of the firm preparing the TCP, name and stamp of the Registered Traffic or Civil Engineer, approval block for each jurisdictional agency, north arrow, sheet number, and number of sheets comprising the TCP. General notes and symbol definitions shall be included when required. Adequate dimensioning shall be provided to allow for proper field installation. The TCP shall be drawn to a 1 inch = 40 feet scale on common size sheets, either 8-1/2 inches x 11 inches, 8-1/2 inches x 14 inches, 11 inches x 17 inches, or 2-foot x 3-foot plan sheets as dictated by the length of the Work.

The requirements in the Special Provisions shall govern the design of the proposed TCP.



**7-10.2.2.2 Payment.** Payment for preparation of the TCP shall be included in the appropriate lump sum Bid items. If no Bid items have been provided, payment shall be included in the various Bid items unless otherwise specified in the Special Provisions.

**7-10.3 Haul Routes.** Unless otherwise specified in the Special Provisions, the haul route(s) shall be determined by the Contractor.

**7-10.4 Safety.**

**7-10.4.1 Work Site Safety.**

**7-10.4.1.1 General.** The Contractor shall provide safety measures as necessary to protect the public and workers within, or in the vicinity of, the Work site. The Contractor shall ensure that its operations will not create safety hazards. The Contractor shall provide safety equipment, material, and assistance to Agency personnel so that they may properly inspect all phases of the Work. When asbestos is being removed, the requirements of the CCR Title 8, Div. 1, Chapter 4, Subchapter 4 and Subchapter 7 shall be implemented.

**7-10.4.1.2 Work Site Safety Official.** The Contractor shall designate in writing a "Project Safety Official" who shall be at the Work site at all times, and who shall be thoroughly familiar with the Contractor's Injury and Illness Prevention Program (IIPP) and Code of Safe Practices (CSP). The Project Safety Official shall be available at all times to abate any potential safety hazards and shall have the authority and responsibility to shut down an unsafe operation, if necessary.

**7-10.4.2 Safety Orders.**

**7-10.4.2.1 General.** The Contractor shall have at the Work site, copies or suitable extracts of Construction Safety Orders, Tunnel Safety Orders, and General Industry Safety Orders issued by the State Division of Industrial Safety. Prior to beginning any excavation 5 feet in depth or greater, the Contractor shall submit to the Engineer, the name of the "Competent Person" as defined in CCR, Title 8, Section 1504, in accordance with 2-5.3. The "Competent Person" shall be present at the Work site as required by Cal-OSHA.

**7-10.4.2.2 Shoring Plan.** Before excavating any trench 5 feet (105m) or more in depth, the Contractor shall submit in accordance with 2-5.3 a detailed working drawing (shoring plan) showing the design of the shoring, bracing, sloping, or other provisions used for the workers' protection. If the shoring plan varies from the shoring system standards, the shoring plan shall be prepared by a registered Structural or Civil Engineer. The shoring plan shall accommodate existing underground utilities. No excavation shall start until the Engineer has accepted the shoring plan and the Contractor has obtained a permit from the State Division of Industrial Safety. A copy of the permit shall be submitted to the Engineer in accordance with 2-5.3. If the Contractor fails to submit a shoring plan or fails to comply with an accepted shoring plan, the Contractor shall suspend work at the affected location(s) when directed to do so by the Engineer. Such a directive shall not be the basis of a claim for Extra Work and the Contractor shall not receive additional compensation or Contract time due to the suspension.

**7-10.4.2.3 Payment.** Payment for shoring shall be included in the Bid item provided therefor. Payment for compliance with the provisions of the safety orders and all other laws, ordinances, and regulations shall be included in the various Bid items.

**7-10.4.3 Use of Explosives.** Explosives may be used only when authorized in writing by the Engineer, or as otherwise specified in the Special Provisions.

Explosives shall be handled, used, and stored in accordance with all applicable regulations.

Prior to blasting, the Contractor shall comply with the following requirements:

- a) The jurisdictional law enforcement agency shall be notified 24 hours in advance of blasting.
- b) The jurisdictional fire department shall be notified 24 hours in advance of blasting.
- c) Blasting activities and schedule milestones shall be included in the Contractor's construction schedule per 6-1.

For a Private Contract, specific permission shall be obtained from the Agency in writing, prior to any blasting operations in addition to the above requirements.

The Engineer's approval of the use of explosives shall not relieve the Contractor from liability for claims caused by blasting operations.

**7-10.4.4 Hazardous Substances.** An MSDS as described in CCR, Title 8, Section 5194, shall be maintained at the Work site for all hazardous material used by the Contractor. Material usage shall be accomplished with strict adherence to California Division of Industrial Safety requirements and all manufacturer warnings and application instructions listed on the MSDS and on the product container label. The Contractor shall notify the Engineer if a specified product cannot be used under safe conditions. **7-10.4.5 Confined Spaces.** **7-10.4.5.1 Confined Space Entry Program (CSEP).** The Contractor shall be responsible for implementing, administering and maintaining a CSEP in accordance with CCR, Title 8, Sections 5156, 5157 and 5158.

Prior to the start of the Work, the Contractor shall prepare and submit a CSEP in accordance with 2-5.3. The CSEP shall address all potential physical and environmental hazards and contain procedures for safe entry into confined spaces such as the following:

- a) Training of personnel
- b) Purging and cleaning the space of materials and residue
- c) Potential isolation and control of energy and material inflow
- d) Controlled access to the space
- e) Atmospheric testing of the space
- f) Ventilation of the space
- g) Special hazards consideration
- h) Personal protective equipment
- i) Rescue plan provisions

The submittal shall include the names of the Contractor's personnel, including each Subcontractor's personnel, assigned to the Work that will have CSEP responsibilities, their CSEP training, and their specific assignment and responsibility in carrying out the CSEP.

#### **7-10.4.5 Confined Spaces.**

**7-10.4.5.1 Confined Space Entry Program (CSEP).** The Contractor shall be responsible for implementing, administering and maintaining a CSEP in accordance with CCR, Title 8, Sections 5156, 5157 and 5158.

Prior to the start of the Work, the Contractor shall prepare and submit a CSEP in accordance with 2-5.3. The CSEP shall address all potential physical and environmental hazards and contain procedures for safe entry into confined spaces such as the following:

- a) Training of personnel.
- b) Purging and cleaning the space of materials and residue.
- c) Potential isolation and control of energy and material inflow.
- d) Controlled access to the space.
- e) Atmospheric testing of the space.
- f) Ventilation of the space.
- g) Special hazards consideration.
- h) Personal protective equipment.
- i) Rescue plan provisions.

The submittal shall include the names of the Contractor's personnel, including each Subcontractor's personnel, assigned to the Work that will have CSEP responsibilities, their CSEP training, and their specific assignment and responsibility in carrying out the CSEP.

**7-10.4.5.2 Permit-Required Confined Spaces.** Entry into permit-required confined spaces as defined in CCR, Title 8, Section 5157 may be required as a part of the Work. Manholes, tanks, vaults, pipelines, excavations, or other enclosed or partially enclosed spaces shall be considered permit-required confined spaces until the pre-entry procedures demonstrate otherwise. The Contractor shall implement a permit-required CSEP prior to performing any work in a permit-required confined space. A copy of the permit shall be available at all times for review by the Contractor and the Engineer at the Work site.

**7-10.4.5.3 Payment.** Payment for the CSEP shall be included in the Bid items for which the CSEP is required.

#### **7-10.5 Security and Protective Devices.**

**7-10.5.1 General.** Security and protective devices shall consist of fencing, steel plates, or other devices as specified in the Special Provisions to protect open excavations

**7-10.5.2 Security Fencing.** The Contractor shall completely fence open excavations. Security fencing shall conform to 304-3.5. Security fencing shall remain in place unless workers are present and construction operations are in progress during which time the Contractor shall provide equivalent security..

**7-10.5.3 Steel Plate Covers.** The Contractor shall provide steel plate covers as necessary to protect from accidental entry into openings, trenches, and excavations.

**7-11 PATENT FEES OR ROYALTIES.** The Contractor shall absorb in its Bid, the patent fees or royalties on any patented article or process which may be furnished or used in the Work. The Contractor shall indemnify and hold the Agency harmless from any legal action that may be brought for infringement of patents.

**7-12 ADVERTISING.** The names of contractors, subcontractors, architects, or engineers, with their addresses and the designation of their particular specialties, may be displayed on removable signs. The size and location of such signs shall be subject to the Engineer's approval.

Commercial advertising matter shall not be attached or painted on the surfaces of buildings, fences, canopies, or barricades.

**7-13 LAWS TO BE OBSERVED.** The Contractor shall keep fully informed of State and National laws and County and Municipal ordinances and regulations which in any manner affect those employed in the Work or the materials used in the Work or in any way affect the conduct of the Work. It shall at all times observe and comply with all such laws, ordinances and regulations.

**7-13.1 Mined Materials.** Mined material from California surface mines, used on the Work, shall be from a mine identified in the list published by the California Department of Conservation (referred to as 3098 List), as required by Public Contract Code 20676. This list is available on the Internet at [www.conservation.ca.gov/OMR/ab\\_3098\\_list/index.htm](http://www.conservation.ca.gov/OMR/ab_3098_list/index.htm).

**7-14 ANTITRUST CLAIMS.** Section 7103.5 of the Public Contract Code provides:

"In entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the contractor or subcontractor offers and agrees to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to the contractor, without further acknowledgement by the parties."

**7-15 RECYCLABLE CONSTRUCTION & DEMOLITION WASTES.** Ventura County Ordinance Code Section, 4421 et seq, requires that if any recyclable solid wastes or marketable reusable materials will be generated on the site of the Work within the unincorporated areas of Ventura County, the Contractor shall prepare a Construction & Demolition Debris Waste Diversion Plan and submit it to the Ventura County Public Works Agency, Water & Sanitation Department - Integrated Waste Management Division (IWMD). The Contractor shall prepare and file Construction & Demolition Debris Waste Diversion Reporting Forms as required by the IWMD.

For projects within the unincorporated areas of Ventura County, the Contractor shall submit an IWMD Form B-Recycling Plan approved by IWMD prior to issuance of the Notice to Proceed as provided in 6-7.4.

For projects within the unincorporated areas of Ventura County, the Contractor shall submit an IWMD Form C-Reporting Form approved by IWMD prior to the Engineer preparing the final estimate as provided in 9-3.2.

If the site of the Work is within an incorporated city, the Contractor shall comply with all the recycling, solid waste diversion, and hauling requirements of that incorporated city.

**7-16 BLANK**

**7-17 LOSS OR DAMAGE TO THE WORK.** The Contractor is responsible for delivering to the Agency Work completed in accordance with the Contract except as provided in 7-18. Should the Work being constructed be damaged by fire or other causes before Acceptance by the Agency, it shall be replaced in accordance with the requirements of the Plans and Specifications without additional expense to the Agency. The Agency does not carry "Course of Construction" insurance on the Work. Contractor should arrange for its own insurance to protect its interests.

**7-18 ACTS OF GOD.** As provided in Section 7105 of the California Public Contract Code, the Contractor shall not be responsible for the cost of repairing or restoring damaged portions of the Work determined to have been proximately caused by an act of God in excess of 5 percent of the contracted amount, provided that the Work damaged was built in accordance with accepted and applicable building standards and the Specifications and Drawings. The Contractor shall obtain insurance to indemnify the Agency for any damage to the Work caused by an act of God if the premium of said insurance coverage is called for as a separate bid item in the bidding schedule for the Work. For purposes of this section, the term "acts of God" shall include only the following occurrences or conditions and effects: earthquakes in excess of a magnitude of 3.5 on the Richter Scale, and tidal waves.

## **SECTION 8 - FACILITIES FOR AGENCY PERSONNEL**

**8-1 GENERAL.** A field office shall be provided when required by the Plans or Special Provisions. The field office shall be at a suitable location approved by the Engineer.

A field office shall be a weather-tight building of suitable proportions with 16 m<sup>2</sup> (120 sq. ft.) of floor area, at least one door, and a window area of 2 m<sup>2</sup> (22 Sq. Ft.). A field office may be a building or a separate room in a building the Contractor may be required to provide or that it may desire to provide for its own use. In either case, the room shall have a separate exterior door. All doors shall be provided with hasps for padlocks.

The office shall be convenient to the Work. It shall be adequately heated, ventilated, electrically lighted, and provided with telephone service, all at the expense of the Contractor or plant owner. Offices are for the exclusive use of Agency personnel, unless otherwise provided herein.

Field offices at the worksite shall be removed upon completion of the Work.

All costs incurred in furnishing, maintaining, servicing, and removing a field office required at the Work site shall be included in the price bid for such item. If such item is required by the Plans or Specifications and no bid item is provided in the Proposal, the costs shall be absorbed in the other items for which bids are entered. Buildings and equipment furnished by the Contractor at the Work site under the provisions of this section are the property of the Contractor.

The first progress payment will not be approved until all facilities are in place and fully comply with the Specifications.

**8-2 EQUIPMENT FOR FIELD OFFICES.** Unless otherwise specified, a field office shall be equipped with:

- Plan table, 0.75 m x 1.5 m (2 1/2 ft. x 5 ft.) or larger
- Plan rack, capacity to hold two sets of project Plans plus all shop drawings
- Desk and chair
- Two lockers with hasps for padlocks

## SECTION 9 - MEASUREMENT AND PAYMENT

### 9-1 MEASUREMENT OF QUANTITIES FOR UNIT PRICE WORK

**9-1.1 General.** Unless otherwise specified, quantities of work shall be determined from measurements or dimensions in horizontal planes. However, linear quantities of pipe, piling, fencing, and timber shall be considered as being the true length measured along longitudinal axis.

Unless otherwise provided in Specifications, volumetric quantities shall be the product of the mean area of vertical or horizontal sections and the intervening horizontal or vertical dimension. The planimeter shall be considered an instrument of precision adapted to measurement of all areas.

**9-1.2 Methods of Measurement.** Materials and items of Work which are to be paid for on the basis of measurement shall be measured in accordance with the methods stipulated in the particular sections involved.

**9-1.3 Certified Weights.** When payment is to be made on the basis of weight, the weighing shall be done on certified platform scales or, when approved by the Engineer, on a completely automated weighing and recording system. The Contractor shall furnish the Engineer with duplicate licensed weighmaster's certificates showing actual net weights. The Agency will accept the certificate as evidence of weights delivered.

**9-1.4 Units of Measurement.** Measurements shall be in accordance with 1-4.1 and 1-4.2. A metric ton or "tonne" is equal to 1000 kilograms and the unit of liquid measure is a Liter (in U.S. Standard Measures, a pound is an avoirdupois pound; a ton is 2000 pounds avoirdupois; and the unit of liquid measure is a gallon).

**9-2 LUMP SUM BID ITEMS.** Items for which quantities are indicated as "Lump Sum", "L.S." or "Job" shall be paid for at the price indicated in the Proposal. Such payment shall be full compensation for the items of Work and all Work appurtenant thereto.

When required by the Specifications or requested by the Engineer, the Contractor shall submit to the Engineer within 15 Days after award of Contract, a detailed schedule in triplicate, to be used only as a basis for determining progress payments on a lump sum contract or any designated lump sum bid item. This schedule should equal in total the lump sum bid and shall be in such form and sufficiently detailed as to satisfy the Engineer that it correctly represents a reasonable apportionment of the lump sum. If Mobilization or Water Pollution Control are included in the detailed schedule, those items will be paid for as provided in 9-3.4.2 and 7-8.6.4, receptively.

### 9-3 PAYMENT

**9-3.1 General.** The quantities listed in the Bid schedule will not govern final payment unless identified by Agency on the Proposal as [F]. The symbol "[F]" indicates that the quantities shown on the Proposal form are the final pay quantities. Payment to the Contractor (except those items identified as [F]) will be made only for the actual quantities of Contract items constructed in accordance with the Plans and Specifications. Upon completion of construction, if the actual quantities show either an increase or decrease from the quantities given in the Bid schedule, the Contract Unit Prices will prevail subject to the provisions of 3-2.2.1. Payment for those items identified as [F] will be based on the quantities shown on the Proposal unless changed as provided in 3-2.2.1.

The unit and lump sum prices to be paid shall be full compensation for the items of work and all appurtenant work, including furnishing all materials, labor, equipment, tools and incidentals.

Payment for items shown on the Plans or required by the Specifications, for which no pay item is provided, shall be considered included in the prices named for the other items shown on the Proposal.

Payment will not be made for materials wasted or disposed of in a manner not called for under the Contract. This includes rejected material not unloaded from vehicles, material rejected after it has been placed and material placed outside of the Plan lines. No compensation will be allowed for disposing of rejected or excess material.

Whenever any portion of the Work is performed by the Agency at the Contractor's request, the cost thereof shall be charged against the Contractor, and may be deducted from any amount due or becoming due from the Agency.

Whenever immediate action is required to prevent injury, death, or property damage, and precautions which are the Contractor's responsibility have not been taken and are not reasonably expected to be taken, the Agency may, after reasonable attempt to notify the Contractor, cause such precautions to be taken and shall charge the cost thereof against the Contractor, or may deduct such cost from any amount due or becoming due from the Agency. Agency action or inaction under such circumstances shall not be construed as relieving the Contractor or its Surety from liability.

### **9-3.1 General. (Continued)**

Payment shall not relieve the Contractor from its obligations under the Contract; nor shall such payment be construed to be Acceptance of any of the Work. Payment shall not be construed as the transfer of ownership of any equipment or materials to the Agency. Responsibility of ownership shall remain with the Contractor who shall be obligated to store, protect, repair, replace, rebuild, or otherwise restore any fully or partially completed work or structure for which payment has been made; or replace any materials or equipment required to be provided under the Contract which may be damaged, lost, stolen or otherwise degraded in any way prior to completion of the Work under the Contract, except as provided in 6-10.

Warranty periods shall not be affected by any payment but shall commence on the date equipment or material is placed into service at the written direction of the Engineer. In the event such items are not placed into service prior to partial or final completion of the Work, the warranty periods will commence on the date set forth as the date of field completion in the Engineer's acknowledgement of completion.

If, within the time fixed by law, a properly executed notice to stop payment is filed with the Agency, due to the Contractor's failure to pay for labor or materials used in the Work, all money due for such labor or materials will be withheld from payment to the Contractor in accordance with applicable laws.

At the expiration of 35 Days from the date of recording of the Notice of Completion, or as prescribed by law, the amount deducted from the final estimate and retained by the Agency will be paid to the Contractor except such amounts as are required by law to be withheld by properly executed and filed notices to stop payment, or as may be authorized by the Contract to be further retained.

**9-3.2 Partial and Final Payment.** The Engineer will, after award of Contract, establish a closure date for the purpose of making monthly progress payments. The Contractor may request in writing that such monthly closure date be changed. The Engineer may approve such request when it is compatible with the Agency's payment procedure.

Each month, the Engineer will make an approximate measurement of the Work performed to the closure date and, as a basis for making monthly payments, estimate its value based on the Contract Unit Prices or as provided for in 9-2. When the Work has been satisfactorily completed, the Engineer will determine the quantity of Work performed and prepare the final estimate.

Work not conforming to the Contract Documents shall not be measured for payment.

Conformance with the Contract Documents shall be, in addition to constructing the Work in accordance with the Contract Documents, the Contractor's compliance with those portions of the Contract Documents not directly related to the completed Work, including but not limited to: construction and maintenance of detours; diversion and control of water; protection and repair of existing facilities of the Agency and adjacent owners; site maintenance; coordination with utilities and other contractors on the site; proper survey procedures and records; obtaining required permits and inspections; complying with working hour limitations; providing a Contractor's representative while Work is being performed; complying with environmental requirements; maintaining access and safety for users of facilities that are to remain in service during construction; and obeying all laws affecting the Work.

Payment for Extra Work will be made only on approved Daily Extra Work Reports with supporting documentation as required in 3-3.

From each progress estimate, 5 percent will be deducted and retained by the Agency, and the remainder less the amount of all previous payment will be paid to the Contractor.

No progress payment made to the Contractor or its sureties will constitute a waiver of the liquidated damages under 6-9.

### **9-3.2 Partial and Final Payment. (Continued)**

As provided for in Sections 22300 of the California Public Contract Code, the Contractor may substitute securities for any monies withheld by the Agency to ensure performance under the Contract. In substituting securities, the Contractor may either:

- a. Deposit qualifying securities already owned by the Contractor with the Escrow prior to the Contract payment date, or
- b. Direct the Agency to send retained funds to the Escrow to be invested by the Escrow in qualifying securities as directed by the Contractor.

**9-3.2.1 Release of Withheld Contract Funds.** Pursuant to Public Contract Code Section 22300, Contractor has the option to deposit securities with an Escrow Agent as a substitute for retention earnings required to be withheld by Agency pursuant to the construction Contract between the Agency and the Contractor. A form of Escrow Agreement for Security Deposits in Lieu of Retention has been adopted by the Agency as one of the Contract Documents; procedures for implementing the provisions of the Escrow Agreement are contained in Escrow Instructions which shall become effective upon exercise of the option by the Contractor.

The Contractor shall take the following steps if it desires to substitute securities:

- a. Execute the Escrow Agreement for Security Deposits in Lieu of Retention.
- b. Furnish to the Escrow Agent a power of attorney and other forms necessary to empower the Escrow Agent to convert the securities to cash.
- c. Furnish to the Escrow Agent the securities described.
- d. Pay the Escrow Agent's fees and costs.

When the Contractor deposits with the Escrow Agent securities in lieu of money required to be withheld from progress payments, a sum of money equivalent to the current cash value of the securities as determined by the Escrow Agent shall be released to the Contractor by, or upon the direction of, the Agency.

If the total of the money plus the current cash conversion value of securities on deposit should fall below the aggregate amount of the sums required to be withheld from progress payments pursuant to 9-3.1 and 9-3.2, an amount equal to the difference shall be withheld from the next regular progress payment in addition to the amount which would ordinarily be withheld pursuant to 9-3.1 and 9-3.2. If the next regular progress payment is less than the total of the amounts to be withheld therefrom, the Contractor shall immediately either deposit with the Agency cash in the amount of the difference or deposit with the Escrow Agent additional securities having a current cash conversion value equal to or greater than the difference.

The Contractor shall be the beneficial owner of any such securities on deposit with the Escrow Agency and shall be entitled to any interest earned thereon prior to conversion. The Agency may direct the Escrow Agency to convert securities with the Escrow Agency into cash, and to deliver the cash to the Agency, in any case where the Contractor is in default, including the following:

- a. where the Agency would be entitled to use funds withheld pursuant to 9-3.1 and 9-3.2 to satisfy claims of workers, materials suppliers or subcontractors, or to complete or correct work which the Contractor has failed or refused to complete or correct, or
- b. where the Contractor has failed to comply with the requirements of this section respecting the deposit of additional cash or securities to make up for a fall in the value of securities already on deposit with the Escrow Agency.

The Agency may hold and use cash resulting from such a conversion of securities in the same manner as it would be entitled to hold and use funds withheld pursuant to 9-3.1 and 9-3.2.

**9-3.2.2 Timely Progress Payments.** As required by Public Contract Code Section 20104.50, the Contractor is informed that should a progress payment not be made within 30 Days after receipt of an undisputed and properly submitted payment request from the Contractor, the Agency shall pay interest to the Contractor on the unpaid amount at the rate set forth in the Code of Civil Procedures, Section 685.010(a). Agency shall promptly review payment requests, and if not determined to be proper, document to the Contractor, within 7 Days, the reasons why the request is not proper.

Contractor should refer to the code sections cited for further information.

**9-3.3 Delivered Materials.** Payment for the cost of materials and equipment delivered to the Work site but not incorporated in the Work will be included in the progress estimate if, prior to the closure date for the monthly progress payment, the material or equipment is listed by the Contractor on the Agency's form together with date of delivery, vendor's or Subcontractor's name and cost; is accompanied by a copy of an invoice showing the cost thereof; has an aggregate cost in excess of \$5,000 for each progress payment; is currently on the Work site at an approved location and in good condition; and is one of the following:

1. Precast concrete units weighing more than 100 kilograms (200 pounds) each.
2. Structural steel members weighing more than 100 kilograms (200 pounds) each.
3. Individual pieces of electrical equipment costing over \$1,000 each.
4. Individual pieces of mechanical equipment costing over \$1,000 each.
5. Reinforced concrete pipe of any size.
6. Storm drainage pipe 900 mm (36") in diameter and larger.
7. Water and sewer pipe 300 mm (12") in diameter and larger.
8. Finish hardware for doors.
9. Other individual items of equipment costing over \$1,000 each
10. Materials where the aggregate value of a single type of material exceeds \$1,000 and is either:
  - a) Fabricated or cut to fit the Work before delivery, or
  - b) Of a size or type not available from any manufacturer without a special production run.

On unit price Bid items, the amount paid for materials or equipment delivered but not incorporated in the Work shall not exceed 75% of the amount of the Bid item which includes such material or equipment.

On lump sum Bid items, the amount paid for materials and equipment delivered and not incorporated in the Work shall not exceed 75% of the item in the approved schedule submitted in accordance with 9-2 of which such materials or equipment is a part.

Should materials or equipment previously paid for be damaged, destroyed, stolen or removed from the Work site, the payment previously made therefor will be deducted from the next progress payment, unless such materials or equipment are replaced prior thereto.

On the closure date for progress payments, as provided in 9-3.2, the Contractor shall certify that all materials and equipment not incorporated into the Work, for which payment has previously been made or is being requested, is still at the Work site and in good condition. Failure to provide such certification will be cause for deducting previous payments for materials not incorporated in the Work from the amount due the Contractor in the progress payment.

Payment for materials or equipment, as provided herein, shall not constitute approval or acceptance thereof nor shall such payment modify or abridge any of the rights the Agency has under the Specifications or at law nor relieve the Surety of any of its obligations under the bonds.

#### **9-3.4 Mobilization**

**9-3.4.1 Scope.** Mobilization includes preliminary services, work and operations, including but not limited to, furnishing required bonds, obtaining necessary permits and work areas, providing a specified field office, the movement of labor, supplies, equipment and incidentals to the Work site, and for all other work, services and operations which must be performed or for which costs are incurred prior to performing work of the other Contract items.



**9-3.4.2 Payment.** The Contract lump sum price bid for mobilization shall include full compensation for furnishing all labor, materials, tools, equipment, services and incidentals and for doing all work involved in mobilization as specified herein. Payment for mobilization will be made as the Work proceeds on the following basis except that where a field office is required by the Specifications, no payment for mobilization will be made until the specified field office has been provided:

Partial payment estimate (excluding mobilization & water pollution control payments) as a percentage of the original Contract price (excluding the mobilization & water pollution control Bid items).		Cumulative amount of mobilization pay item earned is the lesser of the amounts as computed by these two columns.	
Equal to or greater than	Less than	Percentage of mobilization pay item	Percentage of the original Contract total.
5	10	50	5
10	20	75	7.5
20	50	95	9.5
50	Completion of Work	100	10
Completion of Work		100	

Where no Bid item is provided for mobilization, payment for mobilization shall be considered to be included in the other Bid items.

**9-4 TERMINATION OF AGENCY LIABILITY.** After completion of all work required by the contract, Agency will furnish Contractor a Release on Contract form stating the amount of total authorized payments for the project. Contractor shall execute and return said form within 21 days of receipt. Said form shall release and discharge the Agency from all claims of and liability to the Contractor for all manner of debts, demands, accounts, claims, and causes of action under or by virtue of said Contract except:

- The claim against the Agency for the remainder, if any, of the amounts retained as provided in 9-3.2, and any amounts retained as required by Stop Notices or Labor Code provisions.
- Any unsettled claims or disputes listed on the Release on Contract form which has been processed in compliance with the requirements for making claims under the Contract, including given timely notice pursuant to the applicable provisions of the Contract and following the procedure set forth in 6-12.

Acceptance of the Release on Contract by the Agency shall not be deemed a waiver or release of the Agency's right to contest either the substantive or procedural validity of any listed unsettled claims or disputes.

When executing the Release on Contract, the Contractor shall certify that each unsettled claim or dispute listed thereon has been processed in compliance with the requirements for making claims under the Contract, including giving timely notice pursuant to the applicable provisions of the Contract and following the procedures for resolution of disputes or claims set forth in 6-12 and that acceptance of the Release on Contract by the Agency shall not be deemed a waiver or release of the Agency's right to contest either the substantive or procedural validity of any listed unsettled claims or disputes.

If Contractor fails to execute and submit a Release on Contract within the 21 day time period set forth above, the Release on Contract shall be deemed to have been submitted with no unsettled claims or disputes listed on the Release on Contract. A payment of \$1.00 will be made to the Contractor for such Release on Contract and waiver.

## **SECTION 10 - DIVERSION, CONTROL AND REMOVAL OF WATER**

**10-1 DESCRIPTION.** This section covers the diversion, control and removal of all water entering into the construction area or otherwise affecting construction activities.

**10-2 REQUIREMENTS.** All permanent construction shall be performed in a site free from water unless otherwise provided for in the Special Provisions. The Contractor shall construct, maintain, and operate all necessary cofferdams, pumps, channels, flumes, drains, well points and/or other temporary diversion, protective, and water removal works required for diversion, control and removal of all water, whether surface or groundwater, whatever its source, during construction.

Inundation of partially completed Work due to lack of control during non-working periods will not be permitted, and may be cause for requiring removal and replacement of Work already completed.

The Contractor shall be responsible for obtaining the use of any property in addition to that provided for in the Plans and Specifications, which may be required for the diversion, protective, and water removal works so as not to create a hazard to persons or property or to interfere with the water rights of others.

It shall be understood and agreed that the Contractor shall hold the Agency and the Engineer harmless from legal action taken by any third party with respect to construction and operations of the diversion and protective works.

### **10-3 DIVERSION AND CONTROL WORKS.**

Prior to beginning of work involving diversion, control and removal of water, the Contractor shall submit a water control plan to the Engineer. In the event circumstances during the course of construction require changes to the original water control plan, a revised water control plan shall be promptly submitted to the Engineer in each instance. No responsibility shall accrue to the Engineer or the Agency as a result of the plan or as a result of knowledge of the plan.

Construction and operation of the diversion, control and removal works shall be in accordance with the water control plan submitted, except deviations therefrom may be specifically approved by the Engineer.

All works installed by the Contractor in connection with dewatering, control, and diversion of water but not specified to become a permanent part of the Work, shall be removed and the site restored, insofar as practical, to its original condition prior to completion of construction or when directed by the Engineer.

**10-4 PAYMENT.** No separate Bid item is included. Payment for this item of Work will be considered to be included in the payments made for other items of Contract Work to which water control is incidental.

## PART 2 CONSTRUCTION MATERIALS

### SECTION 200 - ROCK MATERIALS

#### 200-1 ROCK PRODUCTS

##### 200-1.6 Stone for Riprap

**200-1.6.1A Alternate Stone for Riprap.** As an alternate to the requirements of Subsection 200-1.6, the sample may be subject to the following tests:

TESTS	TEST METHOD NO.	REQUIREMENTS
Apparent Specific Gravity	ASTM C 127	2.40 Min.
Resistance to Abrasion	ASTM C 535, Grading 1	35% Max.
Soundness	Section 211-8	10% Max.
Wet and Dry Loss	Section 211-9	5% Max.
Solubility	Section 211-10	No Loss

All rock shall be angular or subangular in shape. Angular shall be defined as having sharp corners and straight planes on all faces, with no evidence of wear caused by wind, water or abrasion. Subangular shall be defined the same as angular except that evidence of wear by wind, water or abrasion may be allowed. Determination of angularity will be made by the Engineer.

##### 200-1.6.2 Riprap Size

The individual classes of rock used for riprap shall conform to the following:

Rock Sizes	RIPRAP CLASSES					
	1-Tonne (1-Ton)	½-Tonne (½-Ton)	¼-Tonne (¼-Ton)	Light	Facing	Cobble
	PERCENTAGE LARGER THAN					
2-Tonne (2-Ton)	0-5					
1-Tonne (1-Ton)	50-100	0-5				
½-Tonne (½-Ton)		50-100	0-5			
¼-Tonne (¼-Ton)	90-100		50-100	0-5		
100-kg (200-lb)		90-100		50-100	0-5	
35-kg (75-lb)			90-100	90-100	50-100	0-5
10-kg ( 25-lb)					90-100	95-100
0.5-kg (1-lb)	100	100	100	100	100	100

The amount of material smaller than the smallest size listed in the table for any class of riprap shall not exceed the percentage limit listed in the table determined on a weight basis.

Compliance with the percentage limit shown in the table for all other sizes of the individual pieces of any class of riprap shall be determined by the ratio of the number of individual pieces larger than the specified size compared to the total number of individual pieces larger than the smallest size listed in the table for that class.

Flat or needle shapes will not be accepted unless the thickness of individual pieces is greater than 1/3 the length.

Before placing in final location, depositing, or stockpiling within the project limits, each individual load of riprap must meet the size requirements of the class specified.

## SECTION 206 - MISCELLANEOUS METAL ITEMS

### 206-3 GRAY IRON AND DUCTILE IRON CASTINGS

#### 206-3.3.2A Manhole Frame and Cover Sets

Unless otherwise specified, manhole frames and covers shall be in accordance with the following Standard Plans contained in the SPPWC:

Clear Opening Diameter mm (Inches)	SPPWC Plan No.	Catalog Numbers	
		Alhambra Foundry	Long Beach Iron Works
600 (24)	630-1	A-1495	X-162
675 (27)	631-1	A-1496	X-164
750 (30)	632-1	A-1497	X-163
900 (36)	633-1	A-1498	X-106A

### 206-5 METAL RAILINGS.

#### 206-5.2 Flexible Metal Guard Rail Materials.

**206-5.2A Flexible Metal Guard Rail Materials; Modification.** The "Construction" grade Douglas Fir for "posts, including blocks" does not have to be "free of heart center".

## SECTION 210 - PAINT AND PROTECTIVE COATINGS

**210-6 STORM DRAIN HARDWARE.** All storm drain hardware, including manhole frames and covers, grates, protection bars, steps, etc., shall be protected from corrosion.

Storm drain hardware made of cast iron shall be protected by painting with, or dipping in, a commercial grade asphalt paint. Storm drain hardware made of steel shall be galvanized.

## SECTION 211 - MATERIAL TESTS

**211-6 SIEVE ANALYSIS.** Sieve analysis shall be performed in accordance with ASTM C136.

**211-7 Sand Equivalent Test.** This test is intended to serve as a field test to indicate the presence or absence of plastic fine material. The test shall be run in accordance with Calif. test 217 or ASTM D2419. When testing material containing asphalt, this test method shall be modified by drying the sample at a temperature not exceeding 38°C (100°F).

**211-8 R-VALUE.** Resistance (R-value) shall be determined by California Test 301.

**211-9 SPECIFIC GRAVITY AND ABSORPTION.** Apparent specific gravity, bulk specific gravity and absorption shall be determined by California Test 206, 207, 208, 209, 224, 225, or 308, Method C where zinc stearate may be substituted for paraffin.

**211-10 LOS ANGELES RATTLER TEST.** Loss in Los Angeles Rattler shall be determined by California Test 211.

**211-11 SOUNDNESS.** For riprap, the soundness shall be determined in accordance with Calif. Test 214, excluding sections D, E, G.2.b, and H, and adding the following:

- a. The test sample shall be prepared by breaking or sawing a representative sampling of riprap into particles passing the 75 mm (three inch) and retained on the 50 mm (two inch) sieve. If there are a variety of rock types or degrees of weathering within a rock type, each unique type or condition must meet the loss requirement.
- b. The test sample size shall be 25,000 grams (55 lbs.)  $\pm$  1 percent.
- c. All particles of test sample which break into three or more pieces during testing shall be discarded. The remaining sample shall be washed on a 4.75 mm (#4) sieve and all particles retained shall be oven dried.
- d. The loss in weight shall be determined by subtracting from the original weight of the test sample the final weight of all particles retained on the 4.75 mm (#4) sieve. Divide the loss in weight by the original weight and multiply by 100 to determine the percent loss.
- e. Report the following:
  - (1) The percent loss.
  - (2) The number of pieces affected, classified as to number disintegrating, splitting, crumbling, cracking, flaking, etc.

**211-12 WET AND DRY LOSS.** Wet and dry loss shall be determined as follows:

A sample of rock shall be crushed, screened, oven dried, and 1,000 g (2.2 lbs.) to 1,500 g (3.3 lbs.) of the 19 mm (3/4 inch) to 9.5 mm (3/8 inch) fraction shall be taken for the test.

The crushed and graded sample shall be submerged in tap water for 8 hours at room temperature, after which the sample shall be drained and oven dried at 78°C (140°F). When dry, the sample shall be cooled to room temperature. This completes one cycle.

After 10 cycles, the percent loss shall be computed as follows:

$$\% \text{ Loss} = \frac{100 \times \text{Weight of Material Passing 4.75 mm (No. 4) Sieve}}{\text{Total Weight of Sample}}$$

**211-13 SOLUBILITY.** Approximately 0.5 kg (one pound), air dried samples shall be immersed in local tap water and in Pacific Ocean water (or a 3.5% sodium chloride solution) for 8 hours each at 78°C (140°F). After immersion, the samples shall be washed with tap water, air dried and reweighed.

**211-14 Permeability Test.** Permeability tests for granular soils shall be performed in accordance with ASTM D2434, using samples compacted to the specified field density.

## **PART 3 CONSTRUCTION METHODS**

### **SECTION 301 - TREATED SOILS, SUBGRADE PREPARATION AND PLACEMENT OF BASE MATERIALS**

#### **301-1 SUBGRADE PREPARATION**

##### **301-1.3 Relative Compaction**

**301-1.3.1 Firm, Hard and Unyielding.** The term "firm, hard and unyielding" as used in 301-1.3 shall mean that when the heaviest construction and hauling equipment used on the Work drives over the subgrade, no permanent deformation shall occur either before or during pavement construction.

**301-1.4 Subgrade Tolerances.** Subgrade for pavement, sidewalk, curb and gutter, driveways, or other roadway structures shall not vary more than 15 mm (0.05 feet) from the specified grade and cross section. Subgrade for subbase or base material shall not vary more than 15 mm (0.05 feet) from the specified grade and cross section.

Variations within the above specified tolerances shall be compensating so that the average grade and cross section specified are met.

#### **301-2 UNTREATED BASE**

##### **301-2.3 Compacting**

**301-2.3.1 Tolerances.** The tolerance requirement in 301-2.3 is modified from 6 mm (0.02 foot) to 15 mm (0.05 foot).

### **SECTION 302 - ROADWAY SURFACING**

#### **302-5 ASPHALT CONCRETE PAVEMENT**

##### **302-5.1 General**

**302-5.1.1 Asphalt Concrete Berms.** Asphalt concrete berms shall be constructed of Class III-D-PG70-10 asphalt concrete by mechanical means to conform to the details and location as shown on the Plans.

A tack coat, as provided in 302-5.4, shall be applied to the existing or new pavement preceding the placement of the asphalt concrete berms.

##### **302-5.4 Tack Coat**

**302-5.4.1 Fog Seal.** When specified, a fog seal consisting of material meeting the requirements of 203-3 shall be applied to the surfaces of all completed asphalt concrete at the rate of 0.36 liter per square meter (0.08 gallon per square yard) of the combined emulsion or such lesser rate ordered by the Engineer. Surface to be sealed shall be free from dust, dirt, and other foreign material. Surface shall be sealed within 7 Days after paving.

##### **302-5.9 Measurement and Payment**

**302-5.9.1 Measurement and Payment for Asphalt Berm.** Asphalt concrete berms will be paid for at the Contract Unit Price per linear meter (feet) of berm in place. No separate measurement or payment will be made for asphalt, aggregate, or tack coat.

**302-5.9.2 Measurement and Payment for Fog Seal, Tack Coat, and Prime Coat.** Measurement and payment for the specified material shall be by the tonne (ton) in place. Emulsions shall be measured after the specified dilution has been made.

## SECTION 303 - CONCRETE AND MASONRY CONSTRUCTION

### 303-5 CONCRETE CURBS, WALKS, GUTTERS, CROSS GUTTERS, ALLEY INTERSECTIONS, ACCESS RAMPS AND DRIVEWAYS

#### 303-5.1 Requirements

**303-5.1.4 Concrete Substitution.** Class 280-C-14 (470-C-2000) may be used in lieu of Class 310-C-17 (520-C-2500) and Class 280-D-14 (470-D-2000) in lieu of Class 310-D-17 (520-D-2500) as specified in 201-1.1.2 for street surface improvements, excluding concrete pavement, when no class is specified on the Plans or in the Special Provisions.

## SECTION 306 - UNDERGROUND CONDUIT CONSTRUCTION

### 306-1 OPEN TRENCH OPERATIONS

#### 306-1.2 Installation of Pipe

##### 306-1.2.1 Bedding

**306-1.2.1.1 Bedding Material.** When native material is allowed for backfill in the bedding zone, no rocks larger than 40 mm (1½") in maximum dimensions shall be included. Material containing ashes, cinders, and types of refuse or other deleterious material shall not be used as bedding.

**306-1.2.1.2 Sewer Pipe Bedding.** Bedding for sewer pipe from 100 mm (4") below the pipe to the spring line (horizontal diameter) of the pipe shall be free draining, granular material with a maximum size of 15 mm (1/2 inch), unless another bedding method is shown on the Plans.

Densification of the bedding material may be by the application of water or by mechanical means. Unless otherwise specified, all bedding material shall be densified to a relative density of 90%. Acceptability of densification in the bedding zone will be determined by visual inspection and probing to determine that no voids exist in the backfill material. In this paragraph, the word "voids" does not include intergranular voids in the soil structure.

**306-1.2.1.3 Flexible Pipe Bedding.** Bedding for flexible drainage and sewer pipe shall be granular material having a sand equivalent of at least 50. The bedding material shall be placed and compacted from 150 mm (six inches) below the pipe to the top of the bedding as defined in 306-1.2.1. A 1 m (three foot) long section of low permeability material (50% passing 75 µm (200) sieve) shall be installed and mechanically compacted in lieu of the above specified bedding material at intervals of 60 m (200 feet) or as otherwise indicated on the Plans.

**306-9 DISINFECTION.** All water mains and appurtenances shall be disinfected before being placed in service in accordance with AWWA C651 except as specified herein:

- a. The water mains shall be chlorinated so that a chlorine residual of not less than 20 ppm remains in the water after standing in the pipe for 24 hours.
- b. The Agency will perform sampling and testing of bacteriologic samples. Disinfection shall be repeated until two or more consecutive samples are negative for coliform organisms.

The pressure in the line being chlorinated shall be maintained at least 35 kPa (5 psi) lower than that existing in any Agency line to which it is connected.

## **306-10 WATERWORKS APPURTENANCES**

**306-10.1 Valves.** Valves shall be located as shown on the drawings.

Each valve shall be operated prior to its installation to assure proper functioning. Valves shall be installed plumb and in alignment with the water main. Valves shall be anchored by metal ties to a concrete base. Line valves may be moved to the closest joint upon approval of the Engineer.

**306-10.2 Valve Boxes.** Each underground valve shall be provided with a valve box. The valve boxes shall be installed plumb and centered over the operating nut of the valve. Valve boxes shall be installed with concrete collars.

Where valve boxes are to be placed in asphaltic type pavement, they shall not be set to grade until after paving has been completed.

Where valve boxes are to be placed in concrete pavement, they shall be set to grade prior to paving operations.

**306-10.3 Thrust Devices.** A reaction or thrust device shall be provided on all dead ends, tees, elbows, and bends with more than 5 degrees deflection on pressure pipe lines.

Thrust devices shall be cast-in-place concrete, poured against undisturbed or compacted earth. Thrust devices shall be sized and constructed in accordance with the Plans.

Thrust devices and anchor blocks shall be constructed of Class 280-C-14 (420-C-2000) concrete. Thrust devices and anchor blocks shall be cured at least 7 Days where Type IP or II cement is used or at least 48 hours where Type III cement is used.

Metal tie-rods or clamps shall be of adequate strength to prevent movement of pipe. All metal shall be coated in accordance with AWWA C110.

**306-10.4 Fire Hydrants.** Fire Hydrants shall be installed as shown on the Plans.

All hydrants shall stand plumb and shall have their nozzles parallel with or at right angles to the curb, with the pumper nozzle facing the curb, except that hydrants having only two hose nozzles 90 degrees apart shall be set with each nozzle facing the curb at an angle of 45 degrees.

In uncurbed public road rights of way, fire hydrants shall be located as far as possible from the traveled way while providing a 1 m (3-foot) wide clear space between the fire hydrant and the right of way line. In curbed public road rights of way, fire hydrants shall be installed so that there is 300 mm (12 inches) clear between the face of curb and the fire hydrant.

**306-10.5 Fire Hydrant Barricades.** Fire hydrant barricades shall consist of 100 mm (4-inch) standard steel pipe, schedule 40, filled with concrete, and having a total length of 2 m (72 inches). They shall be embedded in concrete blocks 300 mm (12 inches) in diameter and 1000 mm (40 inches) deep below ground surface with the barricade pipe embedded to 100 mm (4 inches) above the bottom of the concrete so 1 m (36 inches) extends above ground surface. The steel pipe above ground shall be painted chrome yellow in accordance with AWWA C503.

Barricades shall be installed between the fire hydrant and vehicle traffic paths at locations indicated on the Plans or where required by the water purveyor or Fire Department. Barricades shall not be installed within public road rights of way.

Fire hydrant barricades shall not obstruct the hydrant outlets.



## **SECTION 310 - PAINTING**

### **310-5 Painting Various Surfaces**

#### **310-5.6 Painting Traffic Striping, Pavement Markings, and Curb Markings.**

**310-5.6.8A Application of Paint - Two Coats** All painted traffic striping and markings shall be applied in two coats. The price named in any Bid item for painting traffic striping and markings shall include all costs for both applications, including any delays entailed for the required drying time between applications. If bleeding, curling or discoloration occurs following application of the second coat, unsatisfactory areas shall be given an additional coat, or coats, of paint. No additional payment will be made for work necessary to correct bleeding, curling or discoloration.

## **PART 4**

### **SECTION 400 - ALTERNATE ROCK PRODUCTS, ASPHALT CONCRETE, PORTLAND CEMENT CONCRETE AND UNTREATED BASE MATERIAL**

#### **400-1 Rock Products**

##### **400-1.1 Requirements**

###### **400-1.1.1 General**

Alternate rock material, Type S, as specified in Section 400 may be used on the Work.

###### **400-3 Portland Cement Concrete**

Suppliers of portland cement concrete shall file mix designs as required by 400-1.1.2

###### **400-4 Asphalt Concrete**

Suppliers of asphaltic cement concrete shall file mix designs as required by 400-1.1.2



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
	PHONE (A/C, No, Ext):	FAX (A/C, No):
	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	
	NAIC #	
INSURED	INSURER A:	
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

## COVERAGES

## CERTIFICATE NUMBER:

## REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY						EACH OCCURRENCE \$ See VCSS 7-4.2
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence) \$
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						MED EXP (Any one person) \$
							PERSONAL & ADV INJURY \$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE \$ See VCSS 7-4.2
	<input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC						PRODUCTS - COMP/OP AGG \$
							\$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS						BODILY INJURY (Per accident) \$ 1,000,000
	<input type="checkbox"/> HIRED AUTOS						PROPERTY DAMAGE (Per accident) \$ 1,000,000
							\$
	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR						EACH OCCURRENCE \$
	EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE						AGGREGATE \$
	DED <input type="checkbox"/> RETENTION \$						\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						WC STATUTORY LIMITS OTHER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICE/MEMBER EXCLUDED? (Mandatory in NH)						E L EACH ACCIDENT \$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E L DISEASE - EA EMPLOYEE \$
							E L DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

(Agency) - (Project Name) (Project Specification number)

The Agency and the County of Ventura, including its boards, all special Districts governed by the Board of Supervisors, agencies, departments, officers, consultants, employees, agents and volunteers, is named as Additional Insured as respects work done by Contractor under the terms of the contract on General Liability and Auto Liability Policies. Waiver of Subrogation is applicable to the Agency and the County of Ventura, its boards, districts, agencies, departments, officers, employees, agents and volunteers for Work Comp and General Liability. Endorsements required for referenced contract will be issued by the Insurance Company.

## CERTIFICATE HOLDER

## CANCELLATION

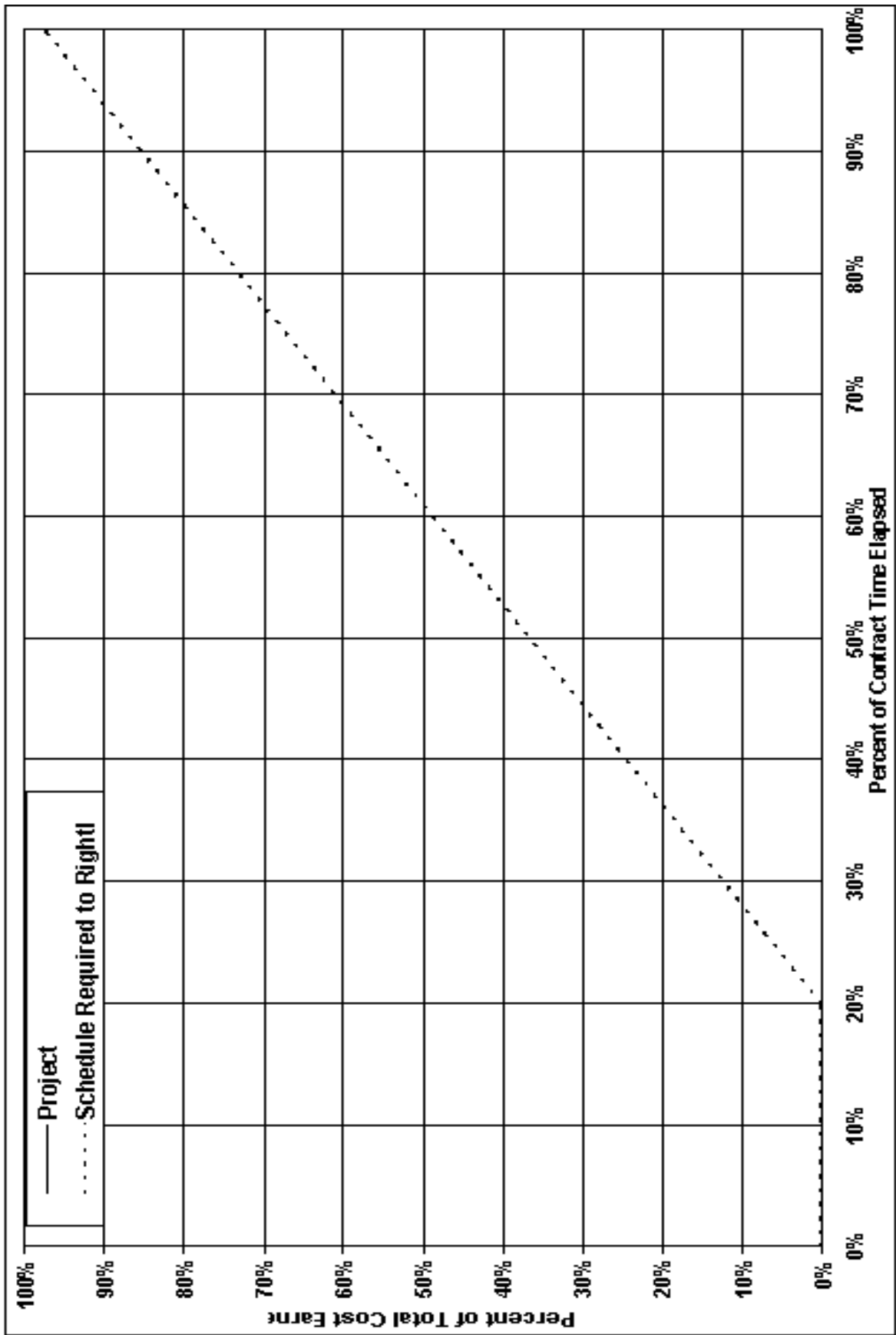
County of Ventura Public Works Agency L-1670 800 S. Victoria Avenue Ventura, CA 93009-1670	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE
---	---

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[illegible]

Spec. No.

Project Name



[illegible]

EACH HORIZONTAL INTERVAL EQUALS 1 WORKING DAYS OF CONTRACT TIME

**Submitted Dilbert and Company Construction**

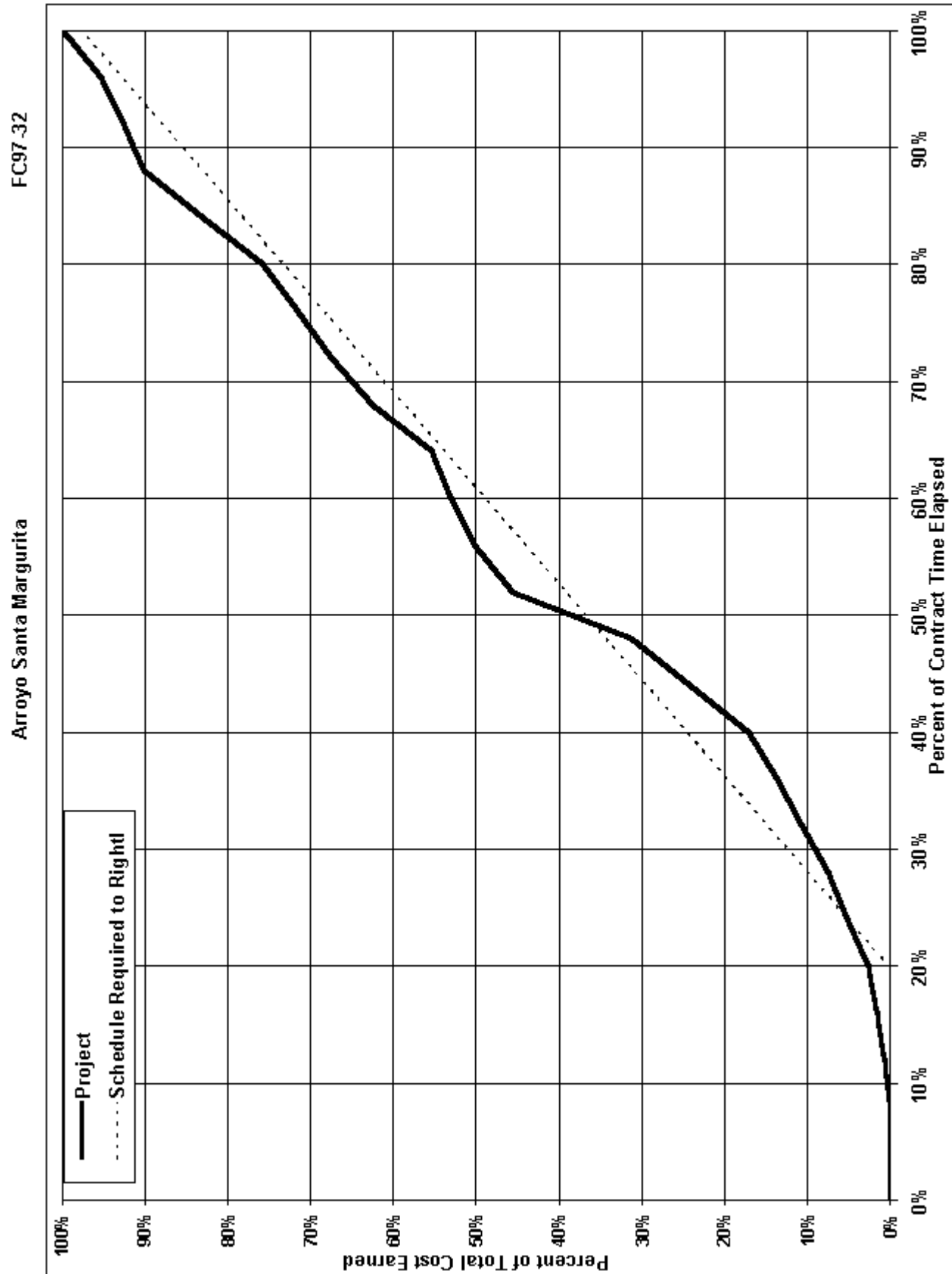
Contractor

5/22/97

Date \_\_\_\_\_

By *Tina Blair*

Title President



ESCROW AGREEMENT FOR  
SECURITY DEPOSITS IN LIEU OF RETENTION

This Escrow Agreement is made and entered into by and between  
("Agency") whose address is \_\_\_\_\_ and  
("Contractor") whose address is \_\_\_\_\_ and  
("Escrow Agent") whose address is \_\_\_\_\_.

For the consideration hereinafter set forth, the Agency, Contractor and Escrow Agent agree as follows:

- (1) Pursuant to Section 22300 of the Public Contract Code of the State of California, Contractor has the option to deposit securities with Escrow Agent as a substitute for retention earnings required to be withheld by Agency pursuant to the Construction Contract entered into between the Agency and Contractor for \_\_\_\_\_ in the amount of dated \_\_\_\_\_, (hereinafter referred to as the "Contract") which Contract is identified by Spec. No. \_\_\_\_\_ and Auditor Controller's Contract No. \_\_\_\_\_. Alternatively, on written request of the Contractor, the Agency shall make payments of the retention earnings directly to the Escrow Agent. When Contractor deposits the securities as a substitute for Contract earnings, the Escrow Agent shall notify the Agency within ten days of the deposit. The market value of the securities at the time of the substitution shall be at least equal to the cash amount then required to be withheld as retention under the terms of the Contract between the Agency and Contractor. Securities shall be held in the name of \_\_\_\_\_, and shall designate the Contractor as the beneficial owner.
- (2) The Agency shall make progress payments to the Contractor for those funds which otherwise would be withheld from progress payments pursuant to the Contract provisions, provided that the Escrow Agent holds securities in the form and amount specified above.
- (3) When the Agency makes payments of retentions earned directly to Escrow Agent, the Escrow Agent shall hold them for the benefit of the Contractor until such time as the escrow created under this contract is terminated. The Contractor may direct the investment of the payments into securities. All terms and conditions of this agreement and the rights and responsibilities of the parties shall be equally applicable and binding when the Agency pays the Escrow Agent directly.
- (4) Contractor shall be responsible for paying all fees for the expenses incurred by Escrow Agent in administering the escrow account. These expenses and payment terms shall be determined by the Agency, Contractor and Escrow Agent.
- (5) The interest earned on the securities or the money market accounts held in escrow and all interest earned on that interest shall be for the sole account of Contractor and shall be subject to withdrawal by Contractor at any time and from time to time without notice to the Agency.
- (6) Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from Agency to the Escrow Agent that Agency consents to the withdrawal of the amount sought to be withdrawn by Contractor.
- (7) The Agency shall have a right to draw upon the securities in the event of default by the Contractor. Upon seven days' written notice to the Escrow Agent from the Agency of the default, the Escrow Agent shall immediately convert the securities to cash and shall distribute the cash as instructed by the Agency.
- (8) Upon receipt of written notification from the Agency certifying that the Contract is final and complete, and that the Contractor has complied with all requirements and procedures applicable to the Contract, the Escrow Agent shall release to the Contractor all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all moneys and securities on deposit and payments of fees and charges.
- (9) Escrow Agent shall rely on the written notifications from the Agency and the Contractor pursuant to Sections (1) to (8), inclusive, of this Agreement and the Agency and Contractor shall hold Escrow Agent harmless from Escrow Agent's release and disbursement of the securities and interest as set forth above.



(10) The names of the persons who are authorized to give written notice or to receive written notice on behalf of the Agency and on behalf of Contractor in connection with the foregoing, and exemplars of their respective signatures are as follows:

On behalf of Agency:

\_\_\_\_\_, Director,  
Public Works Agency

\_\_\_\_\_, Director  
Central Services Department

\_\_\_\_\_, Director  
Engineering Services Department

Address for all of the above:  
Public Works Agency  
800 South Victoria Avenue  
Ventura, CA 93009

**SAMPLE FORM**

Form used for escrow will have names and  
signatures of persons authorized in accordance  
with paragraph 10.

On behalf of Contractor:

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
City & State

\_\_\_\_\_  
Zip Code

On behalf of Escrow Agent:

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
City & State

\_\_\_\_\_  
Zip Code

At the time the Escrow Account is opened, the Agency and Contractor shall deliver to the Escrow Agent a fully executed counterpart of this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement by their proper officers on the date first set forth above.

Agency:  
(Agency name)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

Contractor:  
(Contractor company name)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

**EXHIBIT "A"**  
**ESCROW INSTRUCTIONS**

The parties to this escrow are \_\_\_\_\_ ("Agency") and \_\_\_\_\_ ("Contractor") and \_\_\_\_\_ ("Escrow Agent"). Agency and Contractor have entered into a contract for the construction of \_\_\_\_\_ which contract is identified by Spec. No. \_\_\_\_\_ and Auditor-Controller's Contract No. \_\_\_\_\_ and was entered into by and between Agency and Contractor ("Construction Contract"). Pursuant to Public Contract Code Section 22300, Contractor may substitute certain securities for an equivalent amount of money required to be withheld from progress payments by Agency to Contractor pursuant to the Construction Contract.

The Escrow Agent is hereby instructed as follows:

1. Contractor may deliver to Escrow Agent:
  - (a) Securities of the types specified in Sections 22300 of the Public Contract Code and Section 16430 of the Government Code.
  - (b) Such other documents as are necessary to enable Escrow Agent to convert such securities into cash.
2. Upon receipt of such securities and other documents, Escrow Agent shall notify Agency within ten days of the deposit, and shall examine them to determine whether they are in a form sufficient to effect conversion of the securities into cash. Escrow Agent shall thereupon send written notice of its determination to Agency.
3. Escrow Agent shall hold such securities as trustee for Agency. The right of Agency to such securities is superior to any other lien or claim of lien; provided, however, that Contractor shall be entitled to any interest earned by such securities prior to their conversion to cash pursuant to section 5 hereof, and further provided that such interest may be withdrawn by Contractor at any time and from time to time without notice to Agency.

Securities may be substituted by Contractor, but any securities substituted for securities previously deposited shall not reduce the current cash value of securities held below that last reported to Agency by Escrow Agent.
4. Escrow Agent shall determine the current cash value of such securities held by it as of the close of business on the first business day following the \_\_\_\_\_ day of each month and, in addition, on any other days which the Agency may from time to time specify in a written notice to Escrow Agent. Current cash value shall be determined as follows:
  - (a) For securities traded over-the-counter or on a stock exchange:
    - (1) Determine either the current bid price for the securities as of the close of business or the face value of the securities, whichever is less.
    - (2) Subtract the cost of sale (broker commission).
    - (3) Subtract all unpaid escrow fees and costs associated therewith.
  - (b) For certificates of deposit:
    - (1) Determine the face amount.
    - (2) Subtract the potential interest penalty for immediate conversion.
    - (3) Subtract all unpaid escrow fees and costs associated therewith.
  - (c) Determine the value of other securities by procedures calculated to determine net realizable value. Promptly upon making each such determination, Escrow Agent shall notify Agency of the securities held and current cash value of such securities.

5. At any time or times that Agency believes it has a right to do so under the provisions of the Construction Contract, Agency may, without the consent of Contractor, deliver to Escrow Agent a written demand that Escrow Agent convert to cash all or any part of such securities. Upon seven days' written notice from Agency of such demand, Escrow Agent shall convert to cash all or part of such securities as demanded and shall distribute the cash as instructed by the Agency.
6. When the Construction Contract has been satisfactorily completed on the part of Contractor and any stop notices filed against the Construction Contract have been released, Agency shall give written notice to Escrow Agent that such securities may be returned to Contractor. Upon receipt of such written notice and payment of all escrow fees and costs, the Escrow Agent shall deliver to Contractor all money, interest, securities and other documents remaining in escrow and the escrow shall terminate.
7. Contractor, and not Agency, shall be liable to Escrow Agent for all of Escrow Agent's fees and costs associated with this escrow.
8. The Director of the Ventura County Public Works Agency, a Department Director of said Agency, or other person authorized in writing by such Director or Department Director is authorized to give written notice and to make written demands on behalf of Agency pursuant to sections 4, 5 and 6 hereof.
9. All written notices and demands pursuant to the escrow agreement and these Instructions shall be addressed as follows:
  - (a) To Agency:

Director, Ventura County Public Works Agency  
800 South Victoria Avenue  
Ventura, California 93009

(b) To Contractor:

(c) To Escrow Agent:

DATED: \_\_\_\_\_

By _____	By _____	By _____
Title _____	Title _____	Title _____

AGENCY

CONTRACTOR

ESCROW AGENT  
Bank Charter: State ☐ ☐  
Federal ☐ ☐  
Escrow Agent's Address:

\_\_\_\_\_  
\_\_\_\_\_



RELEASE ON CONTRACT

CONTRACT NAME: \_\_\_\_\_

SPEC. NO. \_\_\_\_\_, PROJECT NO. \_\_\_\_\_

WHEREAS, by the terms of the contract dated \_\_\_\_\_, 20\_\_\_\_ entered into by

\_\_\_\_\_  
\_\_\_\_\_ and the undersigned CONTRACTOR,\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

undersigned CONTRACTOR agreed to perform certain work for the compensation specified in said contract; and

WHEREAS, the CONTRACTOR represents that said work is fully completed and that final payment is due to the CONTRACTOR under terms of said contract,

NOW, THEREFORE, in consideration of the promises and the payment by [AGENCY NAME] to the CONTRACTOR of the amount due under the contract, to wit, the sum of \$ \_\_\_\_\_ and the additional consideration of \$1.00, receipt of which is hereby acknowledged by the CONTRACTOR, the CONTRACTOR hereby releases and forever discharges \_\_\_\_\_ of and from all manner of debts, dues, demands, sum or sums of money, accounts, claims and causes of action, in law and in equity, under or by virtue of said contract except the claim against the Agency for the remainder, if any, of the amounts retained as provided in 9-3.2, any amounts retained as required by Stop Notices or Labor Code Provisions, and any unsettled claims or disputes as follows: (If none, leave blank)

Description of Claim or Dispute	Amount	Date of Claim	Date of Notice of Potential Claim
------------------------------------	--------	------------------	---

The CONTRACTOR certifies that each unsettled claim or dispute listed hereon has been processed in compliance with the requirements for making claims under the contract, including giving notice pursuant to the applicable provisions of the contract, and following the procedures for resolution of disputes or claims set forth in subsection 6-12 of the contract. Acceptance of this Release on Contract by the [Agency Name] shall not be deemed as a waiver or release of its right to contest either the substantive or procedural validity of any listed unsettled claims or disputes.

IN WITNESS WHEREOF, the hand and seal of the CONTRACTOR have been  
hereunto set this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

THIS FORM MUST BE ACCOMPANIED  
by a proper acknowledgement form  
(See Civil Code Section 1189)

Contractor

By

Title

**SURETY BONDS  
PERFORMANCE BOND**

Whereas, the «Agency», hereinafter called "Agency", and «Contr», hereinafter called "principal", have entered into a contract dated «ContrDate» whereby principal agrees to complete certain designated work identified as project «ProjName» (Spec. No. «SpecNo»), and to perform other duties and obligations as described in said contract, which is incorporated herein by this reference and made a part hereof; and Whereas, principal is required under the terms of said contract to furnish a bond to guarantee principal's faithful performance of the work and all terms and conditions of the contract;

Now, therefore, we the principal and the undersigned, as corporate surety, are held and firmly bound unto Agency in the penal sum of «CostText» (\$«OrigCostFmtd») lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, successors, executors and administrators, jointly and severally, firmly by these presents.

The condition of this obligation is such that if the principal, 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 provisions in the said contract and any alteration thereof made as therein provided, on principal's 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 Agency, its officers, agents and employees, as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect.

The above obligation shall continue after Agency's acceptance of the work for the duration of the warranty period as specified in the contract during which time if principal fails to make full, complete, and satisfactory repair or replacement to the work and/or fails to protect Agency from loss or damage resulting from or caused by defective materials or faulty workmanship, the obligation of surety hereunder shall continue so long as any obligation of principal remains.

**PAYMENT BOND**

And, whereas, under the terms of said contract, principal is required before entering upon the performance of the work, to file a good and sufficient payment bond with the Agency to secure the claims to which reference is made in Title 3 (commencing with Section 9000) of Part 6 of Division 4 of the Civil Code of the State of California.

Now, therefore, said principal and the undersigned, as corporate surety, are held firmly bound unto the Agency and all contractors, subcontractors, laborers, material suppliers and other persons employed in the performance of the aforesaid contract and referred to in the aforesaid Civil Code in the like sum of «CostText» dollars (\$«OrigCostFmtd») for materials furnished or labor thereon of any kind, or for amounts due under the Unemployment Insurance Act with respect to such work or labor, or for any amounts required to be deducted, withheld and paid over to the Franchise Tax Board from the wages of employees of the contractor and the contractor's subcontractors, that said surety will pay the same in an amount not exceeding the amount hereinabove set forth, and also in case suit is brought upon this bond, will pay, in addition to the face amount thereof, costs and reasonable expenses and fees including reasonable attorney's fees incurred in successfully enforcing such obligation, to be awarded and fixed by the court, and to be taxed as costs and to be included in the judgment therein rendered.

It is hereby expressly stipulated and agreed that this bond shall inure to the benefit of any and all persons, companies and corporations entitled to file claims under Title 3 (commencing with Section 9000) of Part 6 of Division 4 of the Civil Code, so as to give a right of action to them or their assigns in any suit brought upon this bond.

Should this condition of this bond be fully performed, then this obligation shall become null and void; otherwise, it shall be and remain in full force and effect.

**GENERAL TERMS**

The surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of said contract or the plans and specifications accompanying the same shall in any manner affect its obligations on these bonds, and it does hereby waive notice of any such change, extension, alteration or addition.

Nothing herein shall limit the Agency's rights or surety's obligations under the contract or applicable law, including, without limitation, California Code of Civil Procedure section 337.15.

In witness whereof, this instrument has been duly executed by the principal and surety above named

on \_\_\_\_\_, 20\_\_\_\_.

«Contr»  
Name of Principal

By \_\_\_\_\_

Title \_\_\_\_\_

Name of Surety

By \_\_\_\_\_

Attorney-in-Fact

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

INDICATE COMPLETE ADDRESS OF SURETY TO WHICH  
CORRESPONDENCE CONCERNING THIS BOND SHOULD BE  
DIRECTED.

Telephone No. \_\_\_\_\_

**SAMPLE BOND FORM**

Agency will prepare the Bond in this format and transmit it to the Contractor along with the Contract and the Notice of Award letter.

Surety shall fill in the Bond No., date identification and signature of surety in places provided.

Contractor shall sign and indicate title in place provided.

# **Ventura County Fire Protection District**

## **Modifications to Ventura County Standard Specifications**

Modifications to Ventura County Standard Specifications

Bid Documents  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

---

The Ventura County Standard Specifications (VCSS) as incorporated into this Contract are modified as follows. All provisions of the VCSS remain in full force and effect unless expressly modified herein.

**1. Section 1-2 Definitions.**

- A. The following sentence is added to the definition of Agency”:**

**“The Agency is the Ventura County Fire Protection District.”**

- B. The phrase “Director of Public Works Agency” is deleted from the definition of “Engineer” and replaced with the following:**

**“Fire Chief of the Ventura County Fire Protection District”**

- C. The following definition is added to this section:**

**Department Director-- The Business Services Manager** acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties delegated to them.

**2. Section 1-4.1.2 Is hereby added to read as follows:**

**U. S. Standard Measure is the principal measurement system.**

**3. Section 2-5.2 Precedence of Contract Documents is deleted in its entirety and replaced with the following:**

**Precedence of Contract Documents.** If there is a conflict between any of the Contract Documents, the document highest in precedence shall control. The precedence shall be as follows:

- 1) Permits issued by jurisdictional regulatory agencies.
  - 2) Change Orders and Supplemental Agreements; whichever occurs last.
  - 3) Contract/Agreement.
  - 4) Addenda.
  - 5) Bid/Proposal.
  - 6) Special Provisions
  - 7) Plans.
  - 8) Standard Plans.
  - 9) Standard Specifications.
  - 10) Reference Specifications.
- Detail drawings shall take precedence over general drawings.

**4. Section 2-5.3.1a is added to read as follows:**

In addition to Division 01 of the Technical Specifications the following provisions apply. In case of a conflict between this section and Division 01, the most stringent requirement shall govern and is compensated for in the Contractor’s Bid amount.”



**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

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**SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SUBMITTALS**

- A. **Submittal Processing:** Contractor shall allow a minimum of five working days for processing on all submittals, shop drawings, product data, and sample submissions for review.
- B. **Quantity of Submittals:** Contractor shall submit five fully complete, legible, and separately bound copies of all submittals required by plans and specifications.
- C. **Resubmittal Time Requirements:** All required resubmittals shall be corrected and resubmitted within three calendar days from receipt of proceeding rejection.
- D. **Shop Drawings:** As applicable, the term "shop drawings" as used herein means drawings, diagrams, schedules, and other data, which are prepared by Contractor, Subcontractors, manufacturers, suppliers, or distributors illustrating some portion of the Work, and includes: illustrations; fabrication, erection, layout and setting drawings; manufacturer's standard drawings; schedules; descriptive literature, instructions, catalogs, and brochures; performance and test data including charts; wiring and control diagrams; and all other drawings and descriptive data pertaining to materials, equipment, piping, duct and conduit systems, and methods of construction as may be required to show that the materials, equipment, or systems and their position conform to the requirements of the Contract Documents. The Contractor shall obtain and submit with shop drawings all seismic and other calculations and all product data from equipment manufacturers. "Product data" as used herein are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate a material, product, or system for some portion of the Work. As used herein, the term "manufactured" applies to standard units usually mass-produced, and "fabricated" means items specifically assembled or made out of selected materials to meet individual design requirements. Shop drawings shall: establish the actual detail of all manufactured or fabricated items, indicate proper relation to adjoining work, amplify design details of mechanical and electrical systems and equipment in proper relation to physical spaces in the structure, and incorporate minor changes of design or construction to suit actual conditions.
- E. **Samples:** The term "samples" as used herein are physical examples furnished by Contractor to illustrate materials, equipment, or quality and includes natural materials, fabricated items, equipment, devices, appliances, or parts thereof as called for in the Specifications, and any other samples as may be required by the Architect or Agency Representative to determine whether the kind, quality, construction, finish, color, and other characteristics of the materials, etc., proposed by the Contractor conform to the required characteristics of the various parts of the Work. All Work shall be in accordance with the approved samples.
- F. **Contractor's Responsibility:** Contractor shall obtain and shall submit all required submittals, shop drawings, samples, etc., with such promptness as to cause no delay in its own Work or in that of any other contractor or subcontractor but in no event later than seven calendar days after the Notice to Proceed. No extensions of time shall be granted to Contractor or any Subcontractor because of its failure to submit timely shop drawings, submittals, and samples. Each Subcontractor shall submit all shop drawings, samples, and manufacturers' descriptive data for review through the Contractor. By submitting shop drawings, product data, samples, etc., the Contractor represents that it has determined and verified all materials, field measurements, catalog numbers, related field construction criteria, and other relevant data in connection with each such submission, and that it has checked, verified, and coordinated the

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

---

information contained within such submittals with the requirements of the Work and of the Contract Documents, including the construction schedule. The submission of the shop drawings, product data, samples, etc., shall not deviate from the requirements of the Contract Documents including detailing and design intent which is specifically outlined in Contract Documents except as specifically authorized by the Architect, Agency Representative or through an accepted substitution. All deviations from the Contract Documents shall be narratively described in a transmittal and on the accompanying shop drawings. However, shop drawings shall not be used as a means of requesting a substitution. Review by Architect or Agency Representative shall not relieve the Contractor or any Subcontractor from its responsibility in preparing and submitting proper shop drawings in accordance with the Contract Documents. Any submissions, which in the Architect or Agency Representative's opinions are incomplete, contain errors, or have been checked superficially, shall be returned unreviewed for resubmission by the Contractor. Contractor shall stamp, sign, and date each submittal indicating its representation that the submittal meets all of the requirements of the Contract Documents.

- G. **Extent of Review:** In reviewing shop drawings, the Architect or Agency Representative shall not verify dimensions and field conditions. The Architect or Agency Representative shall review and approve shop drawings, product data, samples, etc., for aesthetics and for conformance with the design concept of the Work and the information in the Contract Documents. The Architect or Agency Representative's review shall neither be construed as a complete check which relieves the Contractor, Subcontractor, manufacturer, fabricator, or supplier from responsibility for any deficiency that may exist or from any departures or deviations from the requirements of the Contract Documents unless the Contractor has, in writing, called the Architect or Agency Representative's attention to the deviations at the time of submission. The Architect or Agency Representative's review shall not relieve the Contractor or Subcontractors from responsibility for errors of any sort in shop drawings or schedules, for proper fitting of the Work, coordination of the differing subcontractor trades and shop drawings and Work which is not indicated on the shop drawings at the time of submission of shop drawings.
- H. **Late Submittals:** Contractor shall be responsible to pay for the added review time and processing caused by late submittals and more than one resubmittal.

**DRAWING AND SUBMITTAL SUBMISSION PROCEDURE**

A. **Submittal Schedule:**

1. Contractor shall submit a complete submittal schedule within two 2 working days of the date of Contract Award, for review and acceptance by the Project Manager and Agency.

B. **Submittal Procedures** (As applicable for this Project):

1. General: The provisions of Section A.1. above shall apply, in addition to the following.
2. Submittal Preparation: Place a permanent label or title block on each submittal for identification. Indicate the name of the entity that prepared each submittal on the label or title block.
  - a. Provide a space approximately 4" x 5" on the label or beside the title block on Shop Drawings to record the Contractor's review and approval markings and the action taken.

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

---

- b. Include the following information on the label for processing and recording action taken.
    - Project name.
    - Date.
    - Name and address of Architect.
    - Name and address of Contractor.
    - Name and address of subcontractor.
    - Name and address of supplier.
    - Name of manufacturer.
    - Number and title of appropriate Specification Section.
    - Drawing number and detail references, as appropriate.
    - Equipment tag number of drawing designation.
3. Shop Drawings: Submit newly prepared information, drawn to accurate scale. Highlight, encircle, or otherwise indicate deviations from the Contract Documents. Do not reproduce Contract Documents or copy standard information as the basis of Shop Drawings. Standard information prepared without specific reference to the Project is not considered Shop Drawings.
  - a. Shop Drawings include fabrication and installation drawings, setting diagrams, schedules, patterns, and similar drawings. Include the following information:
    - Dimensions.
    - Identification of products and materials included.
    - Compliance with specified standards.
    - Notation of coordination requirements.
    - Notation of dimensions established by field measurement.
  - b. Sheet Size: Submit Shop Drawings on sheets at least 8-1/2" x 11" but no larger than 24" x 36".
4. Product Data: Collect product data into a single submittal for each element of construction or system. Product data includes printed information such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams and performance curves. Where product data must be specially prepared because standard printed data is not suitable for use, submit as "Shop Drawings".
5. Identify applicable choices and options within the PDF. Where product data includes information on several products, some of which are not required, indicate the applicable information. Include the following information:
  - a. Manufacturer's printed recommendations.
  - b. Compliance with recognized trade association standards.
  - c. Compliance with recognized testing agency standards.
  - d. Application of testing agency labels and seals.
  - e. Notation of dimensions verified by field measurement.
  - f. Notation of coordination requirements.
6. Do not submit product data until compliance with requirements of the Contract Documents has been confirmed.

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

---

7. Submittals: The Architect will return submittals electronically with action to be taken and corrections or modifications required.
  - a. Unless noncompliance with Contract Document provisions is observed, the submittal may serve as the final submittal.
8. Distribution: Furnish copies of final submittal to installers, subcontractors, suppliers, manufacturers, fabricators, and others as required for performance of construction activities. Show distribution on transmittal forms.
  - a. Do not proceed with installation until an acceptable copy of applicable product data is in the installer's possession.
  - b. Do not permit use of unmarked copies of product data in connection with construction.
- C. **Transmittal Letter and Other Requirements:** All shop drawings must be properly identified with the name of the Project and dated, and each lot submitted must be accompanied by a letter of transmittal referring to the name of the Project and to the Specification section number for identification of each item clearly stating in narrative form, as well as "clouding" on the submissions, all qualifications, departures, or deviations from the Contract Documents. Shop drawings, for each section of the Work shall be numbered consecutively and the numbering system shall be retained throughout all revisions. All Subcontractor submissions shall be made through the Contractor. Each drawing shall have a clear space for the stamps of Architect or Agency Representative and Contractor.
- D. **Copies Required:** Each submittal shall include one legible, reproducible sepia and four legible prints of each drawing or schedule, table, cut sheet, etc., including fabrication, erection, layout and setting drawings, and such other drawings as required under the various sections of the Specifications, until final acceptance thereof is obtained. Subcontractor shall submit copies, in an amount as requested by the Contractor, of 1) manufacturers' descriptive data for materials, equipment, and fixtures, including catalog sheets showing dimensions, performance, characteristics, and capacities; 2) wiring diagrams and controls; 3) schedules; 4) all seismic calculations and other calculations; and 5) other pertinent information as required by the Architect or Agency Representative.
- E. **Corrections:** The Contractor shall make all corrections required by Architect or Agency Representative and shall resubmit, as required by Architect or Agency Representative, corrected copies of shop drawings or new samples until approved. Contractor shall direct specific attention in writing or on resubmitted shop drawings to revisions other than the corrections required by the Architect or Agency Representative on previous submissions. Professional services required for more than one re-review of required submittals of shop drawings, product data, or samples are subject to charge to the Contractor.
- F. **Approval Prior to Commencement of Work:** No portion of the Work requiring a shop drawing or sample submission or other submittal shall be commenced until the submission has been reviewed by Contractor, and Architect or Agency Representative and approved by Architect or Agency Representative unless specifically directed in writing by the Architect or Agency Representative. All such portions of the Work shall be in accordance with approved shop drawings and samples.

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

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**SAMPLES AND MANUALS, SUBMISSIONS PROCEDURE**

- A. **Samples Required:** In case a considerable range of color, graining, texture, or other characteristics are anticipated in finished products, a sufficient number of samples of the specified materials shall be furnished by the Contractor to indicate the full range of characteristics which shall be present in the finished products; and products delivered or erected without submittal and approval of a full range samples shall be subject to rejection. Except for range samples, and unless otherwise called for in the various sections of the Specifications, samples shall be submitted in duplicate. All samples shall be marked, tagged, or otherwise properly identified with the name of the submitting party, the name of the Project, the purpose for which the samples are submitted and the date, and shall be accompanied by a letter of transmittal containing similar information, together with the Specification section number. Each tag or sticker shall have clear space for the review stamps of Contractor and Architect or Agency Representative.
- B. **Labels and Instructions:** All samples of materials shall be supplied with the manufacturer's descriptive labels and application instructions.
- C. **Review by Architect or Agency Representative:** The Architect or Agency Representative shall review and, if appropriate, approve submissions and shall return them to the Contractor indicating appropriate action.
- D. **Equipment Manuals:** Contractor shall obtain and furnish three complete sets of manuals containing the manufacturers' instructions for maintenance and operation of each item of equipment and apparatus furnished under the Contract Documents and any additional data specifically requested under the various sections of the Specifications for each division of the Work. The manuals shall be arranged in logical, sequential order, labeled, indexed, and placed in three-ring binders. At the completion of its Work, the Contractor shall certify, by endorsement thereon, that each of the manuals is complete, accurate, and covers all of its work. Prior to submittal of Contractor's Application for Final Payment and release of retention, and as a further condition to its approval by the Architect, Agency Representative and Agency, each Subcontractor shall deliver the manuals, arranged in logical, sequential order, labeled, indexed, endorsed, and placed in three-ring binders, to the Contractor, who shall assemble these manuals for all divisions of the Work, review them for completeness, and submit them to the Architect, Agency Representative and Agency.
- E. **Agency's Property:** All shop drawings, computer disks, annotated specifications, samples, and other submittals shall become the Agency's property upon receipt from the Contractor.

**SUBSTITUTIONS**

- A. **One Product Specified:** Unless the Specifications state that no substitution is permitted, whenever the Contract Documents indicate any specific article, device, equipment, product, material, fixture, patented process, form, method, or type of construction or any specific name, make, trade name, or catalog number, with or without the words "or equal," such specification shall be deemed to be used for the purpose of facilitating description of the material, process, or article desired and shall be deemed to be followed by the words "or equal." Contractor may, unless otherwise stated, offer any material, process, article, etc., which shall be materially equal or better in every respect to that so indicated or specified and shall completely accomplish the purpose of the Contract Documents.

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

---

- B. Substitution Requests:** Requests for substitutions of products, materials, or processes other than those specified must be made in writing on forms approved by the Architect, Agency Representative and Agency within two days of the execution of the established date for the start of construction stated in the Notice to Proceed. Any Requests submitted after the two days shall not be considered, except at the sole discretion of the Agency.

A Substitution Request must be accompanied by evidence as to whether or not the proposed substitution: 1) is equal in quality and serviceability to the specified item; 2) shall entail no changes in detail, construction and scheduling of related work; 3) shall be acceptable in consideration of the required design and artistic effect; 4) shall provide no cost disadvantage to Agency; and 5) shall require no excessive or more expensive maintenance, including adequacy and availability of replacement parts. The burden of establishing these facts and all associated costs, including all costs associated with its design, engineering, permits & permitting process and the like shall be upon the Contractor. The Contractor shall furnish with its request all drawings to include the permitted set of engineer's wet stamped drawings approved by all authorities having jurisdiction over this Project, specifications, samples, performance data, calculations, and other information as may be required to assist the Architect, Agency Representative and Agency in determining whether the proposed substitution is acceptable. The final decision shall be the Agency's. The written approval of the Agency, consistent with the procedure for Change Orders, shall be required for the use of a proposed substitute material. Agency may condition its approval of the substitution upon delivery to Agency of an extended warranty or other assurances of adequate performance of the substitution. All risks of delay due to governmental agencies having jurisdiction, approval of a requested substitution shall be on the requesting party. If a substitute offered by the Contractor is not found to be equal to the specified material, the Contractor shall furnish and install the specified material.

**5. Section 2-5.4 Record Drawings; the following is added to this section:**

**"Record Drawings and Annotated Specifications:** The Contractor shall prepare and maintain on a current basis an accurate and complete set of Record Drawings showing clearly all changes, revisions to specifications and substitutions during construction, including, without limitation, field changes and the final location of all electrical and mechanical equipment, utility lines, ducts, outlets, structural members, walls, partitions, and other significant features, and Annotated Specifications showing clearly all changes, revisions, to specifications and substitutions during construction, including, without limitation, field changes and the final location of all electrical and mechanical equipment, utility lines, ducts, outlets, structural members, walls, partitions, and other significant features, and Annotated Specifications showing clearly all changes, revisions, and substitutions during construction. A copy of such Record Drawings and Annotated Specifications shall be delivered to Agency in accordance with the Contractor's approved construction schedule. In case a specification allows Contractor to elect one of several brands, makes, or types of material or equipment, the annotations shall show which of the allowable items the Contractor has furnished. The Contractor shall update the Record Drawings and Annotated Specifications as often as necessary to keep them current, but no less often than weekly. The Record Drawings and Annotated Specifications shall be kept at the Project Site and available for review and inspection by the Architect, Agency Representative and Agency.

On completion of the Work and prior to Application for Final Payment and release of retention, the Contractor shall provide the complete, legible set of As-builts/Record Drawings and Annotated Specifications to the Agency, signed and stamped by Contractor and

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

---

the Architect of Record, Roy E. Colbert Architect, certifying them to be a complete and accurate reflection of the actual construction conditions of the Work in the following versions: one CD/electronic version in pdf files and one legible full size (D-size) reproducible printed set of the certified As-builts/Record Drawings. Coordination to have the As-builts/Record Drawings certified by the Architect and Electrical Engineers shall be the Contractor's."

**6. Section 2-11.3 is hereby added to the conditions of the Contract:**

"All inspections required by the Contractor between the hours of 4:00 PM to 7:00 AM and on Saturday, Sunday, and Holidays shall be paid for by the Contractor."

**7. Section 2-13 AGENCY PERSONNEL AND AUTHORITY:**

The following is added to this section: "The Agency is the Ventura County Fire Protection District."

**8. Section 2-13.2 Engineer:**

The words in the first sentence, "The Director of the Public Works Agency of the County of Ventura," are deleted and replaced with the following: "The Fire Chief of the Ventura County Fire Protection District"

**9. Section 2-13.3 Department Director (Public Works Agency).**

"(Public Works Agency)" is deleted from the title of this section.

**10. Section 2-13.4 Project Manager; the following is added to this section after the second sentence:**

"The Agency's Project Manager also referred to herein as the Agency Representative shall be Mr. David Kirby, acting as an authorized representative of the Agency. Mr. David Kirby shall act as directed by and under the supervision of the Business Services Manager."

**11. Section 2-13.6.5 is hereby added to the conditions of the Contract; the following is added to this section:**

- A. The Architect of Record is Roy E. Colbert, Architect.
- B. Where the word "Architect" is used in the Contract Documents, it shall mean Roy E. Colbert, Architect.

**12. Section 3-2.1 General; the following is added to this section:**

"Should any contract item be deleted in its entirety, payment shall be made only for actual costs incurred prior to notification of such deletion."

**13. Section 3-3.2.2 Basis for Establishing Costs; the first sentence of item (c) of this section is deleted in its entirety and replaced with the following:**

"No payment shall be made for the use of tools which have a replacement value of **\$750.00** or less."

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

---

**14. Section 4-1.3.1 General; the following is added to this section:**

**“Inspection Requirements as applicable:** Before calling for inspection, Contractor shall determine that the following have been performed as needed:

- a. All areas of work requested to be inspected by the Contractor are ready for inspection.
- b. All life safety items are in working order.
- c. Mechanical and electrical work complete, fixtures in place, connected and ready for inspection or test.
- d. Electrical circuits scheduled in panels and disconnect switches labeled.
- e. Painting and special finishes complete.
- f. Doors complete with hardware, cleaned of protective film and relieved of sticking or binding and in working order.
- g. Tops and bottoms of doors sealed.
- h. Floors waxed and polished as specified.
- i. Broken glass replaced and glass cleaned.
- j. Grounds cleared of Contractor's equipment, raked clean of debris, and trash removed from Site.
- k. Work cleaned, free of stains, scratches, and other foreign matter, replacement of damaged and broken material.
- l. Finished and decorative work shall have marks, dirt and superfluous labels removed.
- m. Final cleanup.
- n. Prior tests and inspections are completed.
- o. Furnish a letter to Agency stating that the responsible representatives of Agency have been instructed in working characteristics of mechanical and electrical equipment.

**Costs of Multiple Inspections:** More than two requests to make inspections on the same item of work shall be considered an additional service and all subsequent costs shall be invoiced to Contractor and if funds are available, withheld from remaining payments.

**Uncovering Work for Required Inspections:** If a portion of the Work is covered without Agency or Inspector's approval or not in compliance with the Contract Documents, it must, if required in writing by the Agency Representative, Inspector or the Architect be uncovered for observation and be replaced at the Contractor's expense without change in the Contract Sum or Time.

**Final Inspection:** Contractor shall comply with all Punch Lists and maintain the presence of project superintendent and Agency Representative until the Punch List is complete to ensure proper and timely completion of the Punch List. Under no circumstances shall Contractor demobilize its forces prior to completion of the Punch List. Upon receipt of Contractor's written notice that all of the Punch List items have been fully completed and the Work is ready for final inspection and acceptance, Agency Representative shall inspect the work and shall submit to Contractor and Agency a final inspection report noting the work, if any, required in order to complete in accordance with the Contract Documents. Absent unusual circumstances, this report shall consist of the Punch List items not yet satisfactorily completed.”

**15. Section 5-1 LOCATION; the first paragraph of this section is deleted in its entirety and replaced with the following:**

**“Utilities - Removal and Restoration:** The Agency has endeavored to determine the existence of utilities at the Site of the Work from the records of the Agency of known utilities in the vicinity of the



**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

---

Work. The positions of these utilities as derived from such records are shown in the Contract Documents.

No excavations were made to verify the locations shown for underground utilities. The service connections to these utilities may not be shown on the plans. It shall be the responsibility of the Contractor to determine the exact location of all service connections. The Contractor shall make its own investigations, including exploratory excavations, to determine the locations and type of service connections, prior to commencing work, which could result in damage to such utilities. The Contractor shall immediately notify the Architect, Agency Representative and Agency as to any utility discovered by Contractor in a different position than shown in the Contract Documents or which is not shown on the Contract Documents. Contractor shall coordinate its Work with all utilities including, but not limited to, electric, water, gas and telephone and meet with said utilities prior to the start of work.”

**16. Section 6-1 CONSTRUCTION SCHEDULE AND COMMENCEMENT OF WORK; is deleted in its entirety and replaced with the following:**

**PROCEDURES**

- A. Within two working days after Notice to Proceed, or as determined by the Agency Representative, Contractor shall submit, for review, to the Agency Representative, a detailed Construction Schedule setting forth all requirements for complete execution of work.
- B. Two working days after receipt of the Agency Representative's review comments, submit a final Construction Schedule.
- C. Include in initial schedule a written summary narrative sufficiently comprehensive to explain basis of Contractor's approach to work.
- D. If a Construction Schedule is considered by the Agency Representative to be in non-compliance with any requirement of the Contract, Contractor shall be notified to review and revise the Construction Schedule and bring it into compliance. Failure of Contractor to submit a Construction Schedule in full compliance with the Contract may result in a delay in processing of progress payments, since Construction Schedule shall be used in evaluating progress for payment approval.
- E. The Contractor shall deliver to the Agency Representative an updated Construction Schedule reflecting work progress on weekly reporting period. Each such Construction Schedule shall indicate actual progress to date in execution of work, together with a projected schedule for completion of work.
- F. All scheduled submittals are subject to review and acceptance by the Agency and Agency Representative. The Agency retains the right to withhold progress payments until Contractor submits a Construction Schedule acceptable to the Agency Representative and Agency.
- G. Concurrent with the Agency's acceptance of Contractor's submitted Construction Schedule, shall be Contractor's signature of acceptance.

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

---

**PREPARATION GUIDELINES**

- A. Construction Schedule shall represent a practical plan to complete work within time requirements of the Contract.
  - 1. A schedule extending beyond Contract time or less than Contract time shall not be acceptable.
  - 2. A schedule found unacceptable by the Agency or Agency Representative shall be revised by Contractor and resubmitted.
- B. Construction schedule shall clearly indicate sequence of construction activities, grouped by applicable phase and sorted by areas, or facilities within phase, and shall specifically indicate:
  - 1. Start and completion of all items of work, their major components, and interim milestone completion dates, as determined by Contractor and the Agency.
  - 2. Activities for procurement, delivery, installation of equipment, materials, and other supplies, including:
    - a. Time for submittals, resubmittals, and reviews. Include decision dates for selection of finishes, if applicable.
    - b. Time for fabrication, and delivery of, manufactured products for work.
    - c. Interdependence of procurement and construction activities.
    - d. As applicable, dates for testing, balancing equipment, and final inspection.
- C. Schedule shall be in sufficient detail to assure adequate planning and execution of work.
  - 1. Each activity shall range in duration from 1 to 5 workdays and shall be total of actual days required for completion, and shall include consideration of average normal weather impacts on completion of that activity.
  - 2. Activities shall include:
    - a. Description: what is to be accomplished and where.
    - b. Workday duration.
    - c. Scheduled activities shall indicate continuous flow, from left to right.
  - 3. Identify days per week and shifts per day worked; also, non-workdays and holidays.
- D. Failure to include any element of work required for performance of this Contract shall not excuse Contractor from completing work required to comply with the Contract Documents notwithstanding acceptance of Construction Schedule.
- E. Submittal of Construction Schedule shall be understood to be Contractor's confirmation that the schedule meets requirements of the Contract Documents, and that work shall be executed in sequence indicated in schedule.
- F. The Contractor shall provide a colored hard copy and CD copy of the original base line schedule and all subsequent weekly updates.

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

---

**REVIEWS, UPDATES, AND REVISIONS**

- A. The Agency Representative shall review and return Contractor's Construction Schedule, with summary comments within two working days. If revisions are required, Contractor shall resubmit schedule within two working days following receipt of the Agency Representative's comments.
- B. After Contractor and the Agency agree to a final schedule, it shall become the Project Construction Schedule and considered part of the Contract Documents. No changes to Schedule shall be allowed unless mutually agreed upon between the Contractor and the Agency Representative.
- C. Disputes of the Agency Representative's Comments: In the event the Contractor does not agree to, accept or disputes the Agency Representative's correction comments, the Contractor shall provide a descriptive narrative explaining, in specific detail, the reasons for not accepting the Agency Representative's comments. This shall be for each disputed comment. Failure to provide a written explanation shall delay payment processing until received.
- D. Contractor shall analyze and update the Construction Schedule:
  - 1. As part of monthly payment application, Contractor shall submit to and participate with the Agency Representative in a scheduled review to include:
    - a. Actual completion dates for work items completed during report period.
    - b. Actual start dates for work items started during report period.
    - c. Estimated remaining duration for work items in progress, which shall not exceed original duration for activity.
    - d. Estimated start dates for work items scheduled to start during month following report period, if applicable.
    - e. Changes in duration of work items.
  - 2. In case of a change to Contractor's planned sequence of work, Contractor shall include a narrative report with updated progress schedule which shall include, but not be limited to, a description of problem areas, current and anticipated delaying factors, and any proposed revisions for a recovery plan. No added or deleted activities shall be permitted without the Agency Representative's consent. Only Agency Representative's approved changes to the schedule shall be allowed.
  - 3. All change orders affecting this schedule shall be clearly identified as a separate and new Activity.
  - 4. Review of Construction schedule shall not relieve Contractor of responsibility for accomplishing all work in accordance with the Contract Documents.
- E. If, according to current updated Construction Schedule, the Agency determines Contractor is behind the Contract completion date or any interim milestone completion dates, considering all time extensions to which Contractor is entitled, Contractor shall submit a revised schedule, showing a workable plan and a narrative description to complete Project on time.

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

---

1. The Agency may withhold progress payments until a revised schedule acceptable to the Agency Representative and Agency is submitted by Contractor.
- F. Scheduling of change or extra work orders is the responsibility of Contractor.
1. Contractor shall revise Construction Schedule to incorporate all activities involved in completing change orders or extra work orders and submit it to the Agency for review.
- G. If the Agency finds Contractor is entitled to extension of any completion date, under provisions of the Contract, the Agency Representative's determination of total number of days extension shall be based upon current analysis of Construction Schedule, and upon data relevant to extension.
- H. Contractor acknowledges and agrees that delays to non-critical activities shall not be considered a basis for time extension unless activities become critical. Non-critical activities are those activities which, when delayed, do not affect interim or final Contract completion date.
- I. Within two days after commencement of a delay, Contractor shall give a Preliminary Notice of Potential Delay specifying the cause of the delay and estimating the probable effect on the progress of the Work. Failure to give timely notice required by this section shall be deemed waiver of any claim for an extension of time or compensation based on such delay.
- J. Failure of the Contractor to provide proper Construction Schedules as required is a material breach of the Contract and grounds for termination by the District. The District at its sole discretion, may choose, instead of termination to withhold, ten percent the value of any progress payments or retention amounts otherwise due and payable to the Contractor until proper Construction Schedules are provided as required.

**CONTRACTOR'S RESPONSIBILITY**

- A. Nothing in these requirements shall be deemed to be a usurpation of Contractor's authority and responsibility to plan and schedule work as Contractor sees fit, subject to all other requirements of Contract Documents.
- B. Contractor shall provide at all times sufficient competent labor, materials, and equipment to properly carry-on work and to insure completion of each part in accordance with Construction Schedule and within time agreed.
- C. Contractor shall be responsible for ensuring that all submittals to the Agency are accurate and consistent. Damages, including extra time and cost, caused by inaccuracies from Contractor shall be compensated to injured parties by Contractor.
- D. Contractor shall be solely responsible for the proper scheduling of all required essential service facility inspections.

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

---

**SUSPENSION OF PAYMENTS**

- A. **Initial Submittal:** The Agency has the right to withhold progress payments until Construction Schedule is accepted by the Agency Representative.
- B. **Update Submittals:** The Agency has the right to withhold progress payments if Contractor fails to update and submit Construction Schedule and reports as required by the Contract.

**RECORD COPY**

- A. At completion of work items, submit Construction Schedule reflecting “as-built” sequence.

**FORM OF SUBMITTAL**

- A. All Construction Schedule submittals shall be transmitted with a Letter of Transmittal and shall include five, 8 1/2" x 11" size color copies.

**17. Section 6-6.2 Extensions of Time; the following is hereby added to this section:**

An extension of time may only be granted after proper submission of a properly prepared Critical Path Method (CPM) schedule.

**18. Section 7-6 THE CONTRACTOR'S REPRESENTATIVE; the following is hereby added to this section:**

**PROJECT SUPERINTENDENT / PROJECT MANAGER**

- A. The Contractor shall provide a full-time project superintendent on the job site each working day between the contract start date specified in the Notice to Proceed and the acknowledgment of completion of Work specified in Section 6-8 of the VCSS. The project superintendent shall have a minimum of five years' experience in managing construction projects of similar complexity and size to the Work. The Contractor shall also employ a project manager who is responsible for the supervision of the project superintendent who has a minimum of five years' experience in managing construction projects of similar complexity and size to the Work. For each day work is performed at the site between the start date specified in the Notice to Proceed and the acknowledgment of completion of Work specified in Section 6-8 for which the required project superintendent is not at the job site or each working day the project manager is not employed by the Contractor, the Contractor shall be assessed liquidated damages of \$1,035.68, respectively. The project manager can act in the capacity of the project superintendent in the event of temporary illness, vacation, etc., a superintendent may be substituted per the provisions of Section B. below. These liquidated damages are in addition to those specified elsewhere.
- B. The identity and qualifications of the project superintendent and project manager shall be submitted by the Contractor at least ten days prior to the contract start date specified in the Notice to Proceed for the review and approval by the Agency Representative. There shall be no substitution for the project superintendent or project manager identified by the Contractor without prior written approval of such substitution by the Agency Representative. Any subsequent project superintendent or project manager shall have the minimum qualifications set forth above.

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

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**19. Section 7-8.1 General; the following is hereby added to this section:**

**“Agency Right to Cleanup:** If the Contractor fails to clean up and maintain adequate dust control and clean-up of the site or its surrounding premises to the satisfaction of the Agency and Agency Representative after twenty-four hours of advance written notice to the Contractor, the Agency may clean up and deduct the direct clean-up costs from the Contractor’s Contract Sum.”

**20. Section 9-3.2 Partial and Final Payment; the following is hereby added to this section:**

**Application for Progress Payment**

- a. Unless otherwise prescribed by law, on the 25th of each month, the Contractor shall submit to the Agency Representative for review an Application and Certificate for Payment properly filled out on AIA Documents G702 and G703, signed by the Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents.
- b. The Application for Payment shall identify, as a sub-total, the amount of the Contractor’s Total Earnings to Date. The Net Payment Due to the Contractor shall be the above-mentioned sub-total from which shall be deducted the amount of retainage specified in the Contract Documents, and the total amount of all previous payments made to the Contractor.
- c. In addition to the payment and performance bond, the District shall require that all payment applications be submitted with certified payroll (include the prevailing wage documentation and support), updated Construction Schedule, current reflective As-Builts, and original conditional and unconditional release forms relative to each line item of the payment application from Contractor and his subcontractors.

**Review of Applications for Progress Payments**

- a. The Agency Representative shall, within two days after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to the Agency, or return the Application to the Contractor indicating in writing the Agency Representative’s reasons for refusing to recommend payment. In the latter case, the Contractor may make the necessary corrections and promptly resubmit the Application. Thirty days after presentation of the Application for Payment to the Agency with the Agency Representative’s approval, the amount recommended shall become due and when due shall be paid by the Agency to the Contractor on or before the next date when payments are regularly issued by the Agency’s Finance Department.
- b. The Agency may refuse to make payment of the full amount recommended by the Agency Representative because claims have been made against the Agency on account of the Contractor’s performance of the Work, or Stop Notices have been filed, or there are other items entitling the Agency to a credit against the amount recommended, the Agency must give the Contractor written notice within seven days, stating the reasons for such action.

**VENTURA COUNTY  
FIRE PROTECTION DISTRICT  
MODIFICATIONS TO VENTURA COUNTY STANDARD SPECIFICATIONS**

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**Definition of Undisputed Applications for Payment and Its Submission Procedure**

Undisputed Applications for Payment are applications which have been reviewed and percentages approved for payment by the Agency Representative, in concurrence with the Contractor. The undisputed Application and Certificate for Payment must be submitted on two original wet notarized and properly filled out AIA Documents G702 and G703, signed by the Contractor, accompanied by such supporting documentation as is required by the Contract Documents. If the Application submitted by the Contractor is different from that which was approved, said Application shall be deemed disputable and immediately returned to the Contractor without cost to the Agency.

**Final Application for Payment**

After the Contractor has completed all such correction work and delivered all maintenance and operating instructions, schedules, guarantees, Bonds, certificates of inspection, marked up record documents, all as required by the Contract Documents, and after the Agency Representative has indicated that the Work is acceptable, the Contractor may make application for final payment following the procedure for progress payments. The final Application for Payment shall be accompanied by all documentation called for in the Contract Documents, together with complete and legally effective releases or waivers (satisfactory to the Agency) of all liens arising out of or filed in connection with the Work.

**21. Section 9-3.3 Delivered Materials; is deleted in its entirety and replaced with the following:**

**“9-3.3 Delivered Materials.** Payment for the cost of materials and equipment delivered to the Project site but not incorporated in the Work shall not be allowed unless permitted in writing by the Agency Representative prior to purchase or delivery.”

**Excerpts**

**from**

**Public Contract**  
**Code 9204**

Bid Documents – Excerpts from PCC 9204  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM



## **EXCERPTS FROM PUBLIC CONTRACT CODE 9204**

**EFFECTIVE DATE JANUARY 1, 2017**

Please note section 9204 of the Public Contract Code, set forth in full below. Contractor must follow the contractual dispute resolution process specified in the Ventura County Standard Specifications, which is consistent with section 9204.

\* \* \*

(a) The Legislature finds and declares that it is in the best interests of the state and its citizens to ensure that all construction business performed on a public works project in the state that is complete and not in dispute is paid in full and in a timely manner.

(b) Notwithstanding any other law, including, but not limited to, Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2, Chapter 10 (commencing with Section 19100) of Part 2, and Article 1.5 (commencing with Section 20104) of Chapter 1 of Part 3, this section shall apply to any claim by a contractor in connection with a public works project.

(c) For purposes of this section:

(1) "Claim" means a separate demand by a contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following:

(A) A time extension, including, without limitation, for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project.

(B) Payment by the public entity of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled.

(C) Payment of an amount that is disputed by the public entity.

(2) "Contractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who has entered into a direct contract with a public entity for a public works project.

(3)(A) "Public entity" means, without limitation, except as provided in subparagraph (B), a state agency, department, office, division, bureau, board, or commission, the California State University, the University of California, a city, including a charter city, county, including a charter county, city and county, including a charter city and county, district, special district, public authority, political subdivision, public corporation, or nonprofit transit corporation wholly owned by a public agency and formed to carry out the purposes of the public agency.

(B) "Public entity" shall not include the following:

(i) The Department of Water Resources as to any project under the jurisdiction of that department.

(ii) The Department of Transportation as to any project under the jurisdiction of that department.

(iii) The Department of Parks and Recreation as to any project under the jurisdiction of that department.

(iv) The Department of Corrections and Rehabilitation with respect to any project under its jurisdiction pursuant to Chapter 11 (commencing with Section 7000) of Title 7 of Part 3 of the Penal Code.

(v) The Military Department as to any project under the jurisdiction of that department.

(vi) The Department of General Services as to all other projects.

(vii) The High-Speed Rail Authority.

(4) "Public works project" means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind.

(5) "Subcontractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who either is in direct contract with a contractor or is a lower tier subcontractor.

(d)(1)(A) Upon receipt of a claim pursuant to this section, the public entity to which the claim applies shall conduct a reasonable review of the claim and, within a period not to exceed 45 days, shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed. Upon receipt of a claim, a public entity and a contractor may, by mutual agreement, extend the time period provided in this subdivision.

(B) The claimant shall furnish reasonable documentation to support the claim.

(C) If the public entity needs approval from its governing body to provide the claimant a written statement identifying the disputed portion and the undisputed portion of the claim, and the governing body does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, the public entity shall have up to three days following the next duly publicly noticed meeting of the governing body after the 45-day period, or extension, expires to provide the claimant a written statement identifying the disputed portion and the undisputed portion.

(D) Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, paragraph (3) shall apply.

(2)(A) If the claimant disputes the public entity's written response, or if the public entity fails to respond to a claim issued pursuant to this section within the time prescribed, the claimant may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute.

(B) Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public

entity and the claimant sharing the associated costs equally. The public entity and claimant shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside this section.

(C) For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.

(D) Unless otherwise agreed to by the public entity and the contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.

(E) This section does not preclude a public entity from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this section does not resolve the parties' dispute.

(3) Failure by the public entity to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A claim that is denied by reason of the public entity's failure to have responded to a claim, or its failure to otherwise meet the time requirements of this section, shall not constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.

(4) Amounts not paid in a timely manner as required by this section shall bear interest at 7 percent per annum.

(5) If a subcontractor or a lower tier subcontractor lacks legal standing to assert a claim against a public entity because privity of contract does not exist, the contractor may present to the public entity a claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the contractor present a claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the claim be presented to the public entity shall furnish reasonable documentation to support the claim. Within 45 days of receipt of this written request, the contractor shall notify the subcontractor in writing as to whether the contractor presented the claim to the public entity and, if the original contractor did not present the claim, provide the subcontractor with a statement of the reasons for not having done so.

(e) The text of this section or a summary of it shall be set forth in the plans or specifications for any public works project that may give rise to a claim under this section.

(f) A waiver of the rights granted by this section is void and contrary to public policy, provided, however, that (1) upon receipt of a claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable; and (2) a

public entity may prescribe reasonable change order, claim, and dispute resolution procedures and requirements in addition to the provisions of this section, so long as the contractual provisions do not conflict with or otherwise impair the timeframes and procedures set forth in this section.

(g) This section applies to contracts entered into on or after January 1, 2017.

(h) Nothing in this section shall impose liability upon a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

(i) This section shall remain in effect only until January 1, 2027, and as of that date is repealed, unless a later enacted statute that is enacted before January 1, 2027, deletes or extends that date.

# **Ventura County Fire Protection District**

## **Special Provisions**

### **Division 1 – Section 01010**

#### **General Requirements & Summary of Work**

Division 1 – Section 01010  
General Requirements & Summary of Work

Bid Documents  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

**DIVISION 01**

**SECTION 01010**

**GENERAL REQUIREMENTS AND SUMMARY OF WORK**

For the Interior Renovation at Fire Station 41 – Battalion Chief Quarters & Crew Restroom Remodel Project located at 1910 Church Street, Simi Valley, CA 93065, the following individuals shall act as authorized representatives of Agency as directed by and under the supervision of the Agency's Business Services Bureau Manager, and will confer with the Agency's Business Services Bureau Manager regarding their actions. The Contractor shall bear all expenses of correcting Work done contrary to the Contract Documents, Construction Drawings and Technical Specifications if the Contractor performed same, 1) without first consulting the Architect, Agency's Business Services Bureau Manager and Project Manager for further instructions regarding said Work or 2) disregarded the Architect's, Business Services Bureau Manager's and Project Manager's instructions regarding said Work.

1. Architect of Record is Roy E. Colbert, Architect. Roy E. Colbert is the Principal-in-Charge.
2. VCFPD's Business Services Bureau Manager is Tom Kasper.
3. VCFPD's Representative and Project Manager is David Kirby.

Where the word "Architect" is used in the Contract Documents it shall mean Roy E. Colbert, Architect.

**A. DESCRIPTION OF THE WORK – GENERAL:**

1. The construction drawings and Technical Specifications indicate the nature of the Work in terms of the architectural and structural design concept. It is specially noted that the construction drawings and Technical Specifications are intended to show the overall design concept only with regard to finished appearance, use, location, sizes, finishes, etc. The Contractor shall be solely responsible for the means, methods, and procedures of construction of the Work.
2. The Contractor shall perform all Work in conformance with every law, statute, ordinance, building code, rule, or regulation. The Contractor shall assume full responsibility for such Work and shall bear the attributable cost of correction or delay in completing the Work to the fullest extent allowed by law except as otherwise explicitly provided in the Contract Documents.
3. Contractor will be responsible for all prep and moisture testing required by manufacturers' specification for all finishes.
4. Contractor shall provide at no additional cost to the District, access wherever to all parts of the Work that require periodic inspection, maintenance or access that are concealed by permanent non-removable construction or as required by any codes and or authorities having jurisdiction over the Project.

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Special Provisions

Division 01 - Section 01010 - 1  
General Requirements and Summary of Work

Bid Documents  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW RESTROOM REMODEL PROJECT  
1910 CHURCH STREET, SIMI VALLEY, CA 93065

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5. Contractor will provide, furnish, install, and maintain for the duration of this Contract all required weather protections and Storm Water Pollution Controls.
6. **CONFORMANCE WITH LAWS:** Each and every provision of law required by law to be inserted in this Contract shall be deemed to be inserted herein, and the Contract shall be read and enforced as though it were included herein, even if through mistake or otherwise any such provision is not inserted, or is not correctly inserted. Before commencing any portion of the Work, Contractor shall check and review the Plans and Specifications for such portion for conformance and compliance with all laws, ordinances, codes, rules and regulations of all governmental authorities and public and municipal utilities affecting the construction and operation of the physical plant of the project, all quasi-governmental and other regulations affecting the construction and operation of the physical plant of the Project, and other requirements, if any, designated in the Contract Documents. Such checking shall include but not limited to Title 21 and Title 24 of the California Code of Regulations, California Building Code, local utility, local water connection, local grading, and all other applicable agencies. In the event Contractor observes any violation of any law, ordinance, code, rule or regulation, or inconsistency with the Contract Documents, Contractor shall, within 2 calendar days, notify Project Manager in writing of same and shall ensure that any such violation or inconsistency shall be corrected in the manner provided hereunder prior to the construction of that portion of the Work.

The Contractor shall bear all expenses of correcting Work done contrary to said laws, ordinances, codes, rules, and regulations if the Contractor performed same, 1) without first consulting the Architects, Agency, and Project Manager for further instructions regarding said Work or 2) disregarded the Architect's, Agency's and Project Manager's instructions regarding said Work.

The Contractor shall make available, at the construction site, as required, as applicable, a copy of all applicable laws, rules, codes, ordinances, standards, and regulations books or sections.

7. **AMBIGUITY AND INCONSISTENCY:** Before commencing any portion of the Work, Contractor shall carefully examine all Plans and Specifications and other information given to Contractor as to materials and methods of construction and other Project requirements. Contractor shall, within 2 calendar days, notify Project Manager in writing of any perceived or alleged error, inconsistency, conflict, ambiguity, or lack of detail or explanation in the Plans and Specifications in the manner provided herein. If the Contractor or its subcontractors, material or equipment suppliers, or any of their officers, agents, and employees performs, permits, or causes the performance of any Work under the Contract Documents, which it knows or should have known to be in error, inconsistent, or ambiguous, or not sufficiently detailed or explained, Contractor shall bear any and all costs arising there from including, without limitation, the cost of correction thereof without increase or adjustment to the Contract Price or the time for performance. If Contractor performs, permits, or causes the performance of any Work under the Contract Documents prepared by or on behalf of Contractor which is in error, inconsistent or ambiguous, or not sufficiently detailed or explained, Contractor shall bear any and all resulting costs, including, without limitation, the cost of correction, without increase to or adjustment in the Contract Price or the time for performance.

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Special Provisions

Division 01 - Section 01010 - 2  
General Requirements and Summary of Work

Bid Documents  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

8. Contractor shall protect all structures indicated to remain on the plans to the fullest extent possible by benching, sloping, slot cutting or shoring. The cost of any required permits, engineered shoring plans, shoring or other protective measures that may be required shall be the responsibility of the Contractor and shall be included in the Contractor's base bid price.

**B. BEFORE STARTING CONSTRUCTION:**

1. Before undertaking each part of the Work, the Contractor shall carefully study and compare the Contract Documents and check and verify pertinent information and figures shown thereon and all applicable field measurements. The Contractor shall promptly report in writing, via Request for Information (RFI) process to the Architect and Project Manager any conflict, error or discrepancy which the Contractor may discover and shall obtain a written interpretation or clarification from the Architect and Project Manager before proceeding with any Work affected thereby; however, the Contractor shall not be liable to the Agency or the Architect for failure to report any conflict, error or discrepancy in the Contract Documents, unless the Contractor had actual knowledge thereof or should reasonably have known thereof. Contractor shall only submit one issue per RFI, along with their proposed possible solution for consideration including any schedule or costs impact.

**C. LABOR, MATERIALS, EQUIPMENT, MATERIAL HANDLING & STAGING:**

1. It is this Contractor's responsibility to provide for all hoisting, tools, equipment, and rigging of materials and/or equipment.
2. Contractor shall be responsible for their own materials, tools, and equipment during the delivery, unloading, rigging, hoisting, or while in storage until Final Acceptance by Agency.
3. Contractor shall deliver materials, equipment, labor, etc. to the jobsite in such a manner so as to provide for the proper execution of its Work in a continuous, uninterrupted fashion.
4. The Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. The Contractor shall at all times maintain good discipline and order at the site.
5. Contractor may stockpile materials and equipment in areas approved by the Project Manager. Contractor may not store, locate or temporarily place any materials, equipment, etc. whatsoever on the "Temporary Fire Lanes" as indicated by contrasting painted or otherwise appropriately marked surfaces and/or signage, within or without the building. If the material, equipment, etc. stored, located or temporarily placed by the Contractor should create an interference or obstruct the work of other trades or the Agency, Contractor will immediately move upon instruction from the Project Manager and relocate its materials at its own expense with no delays or costs to the Agency. Contractor shall neither store nor stage any materials or equipment upon surrounding public streets, sidewalks or other similar areas.



VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW RESTROOM REMODEL PROJECT  
1910 CHURCH STREET, SIMI VALLEY, CA 93065

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6. The Contractor shall coordinate all deliveries of materials and equipment with the Project Manager, a minimum of 2 working days prior to the anticipated date of delivery. No exceptions to the prior notification requirements will be allowed.
7. Contractor shall be responsible for receiving all deliveries made to Contractor. Contractor shall have its own forces present whenever deliveries are received and shall not rely upon the Agency or others to receive deliveries for Contractor.
8. As applicable to this Project, the Contractor shall provide all fencing as required at the perimeter of the site and staging areas, to ensure safety and security. Fencing to include green fabric on all perimeter sides. Location of perimeter and stage area fencing shall be approved by the Project Manager prior to installation. Contractor shall provide and maintain at all times, a 6-foot height chain link fence with locks around all areas of work for safety and security. The Contractor shall furnish the Project Manager with 2 sets of keys or combination for the locks.
9. The Contractor shall furnish, provide, install, and maintain all required protective material and coverings, medium, and services to protect all items, equipment, facilities, building, and artifacts, etcetera, associated with the Work through the entire duration of this Contract and through completion of the Work.
10. No threading machines, oil use devices, or any possible containments, containment/containing devices, machines, and/or equipment shall be allowed within the building envelope unless authorized by the Project Manager. All care shall be provided by the Contractor and their respective subcontractors to protect all floors, walls, surfaces, etcetera at all times. Contractor shall make corrections to the protection medium at the direction of the Project Manager for no additional cost.

**D. MEETINGS** (including but not limited to):

1. The Contractor shall attend a Mandatory Pre-Construction Meeting to be held with the Project Manager and Architect prior to commencement of work. Copies of the minutes shall be transmitted for record by Project Manager as applicable.
2. The Contractor shall attend Mandatory Weekly Construction Meetings as scheduled.
3. Contractor shall hold, administer, and document a Mandatory Pre-Construction Meeting for each and every subcontractor prior to their work commencement. Copies of the minutes shall be transmitted for record to the Project Manager, upon demand.
4. The Contractor and each respective subcontractor shall hold and document a Mandatory Weekly Toolbox and Tail Gate Meeting. Copies of the minutes shall be transmitted for record to the Project Manager, upon demand.

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Special Provisions

Division 01 - Section 01010 - 4  
General Requirements and Summary of Work

Bid Documents  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW RESTROOM REMODEL PROJECT  
1910 CHURCH STREET, SIMI VALLEY, CA 93065

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5. The Contractor and each of their respective subcontractors shall train and orientate each of their respective employees as to the requirements for the project site, as defined by the Contract Documents, and OSHA.

**E. COORDINATION AND COMMUNICATIONS:**

1. The Agency shall issue all its communications to the Contractor through the Project Manager, David Kirby at (805) 914-4568 or [david.kirby@ventura.org](mailto:david.kirby@ventura.org).

**F. AGENCY/OWNER–FURNISHED, AGENCY/OWNER–INSTALLED WORK (AFAI OR OFOI)**

1. Items shown on the drawings as AFAI or OFOI shall be furnished by the Agency and installed by the Agency. Work indicated as AFAI or OFOI will be performed under separate contract employed by the Agency at its discretion. Where Work of this Contract adjoins or conflicts with AFAI or OFOI work, the Contractor shall cooperate with the Agency and its employees in a manner, which will provide for a reasonable and accurate completion of the AFAI/OFOI.

**G. AGENCY/OWNER–FURNISHED, CONTRACTOR–INSTALLED WORK (AFCI OR OFCI)**

1. Items shown on the drawings as AFCI or OFCI shall be furnished by the Agency and installed by the Contractor. The Contractor shall verify exact sizes and services required for each item of equipment indicated on the drawings or in the Specifications as AFCI or OFCI and shall obtain from

the Agency rough-in drawings, diagrams, setting templates and other necessary information to assure proper mating of assemblies.

2. The Contractor shall receive at the project site each item of equipment from the Agency and from that time on shall assume full responsibility for the items and equipment until one year from date of substantial completion.
3. The Contractor shall give the Agency 2 days prior notice of the requirement for delivery to the site of all AFCI or OFCI equipment.
4. Contractor shall be responsible for providing all personnel, tools, materials, rigging, and equipment in receiving, storing, securing, protecting, and delivering to applicable work area all AFCI or OFCI items and equipment and shall uncrate, inspect, and notify the Agency in writing within 2 days of receiving said items or equipment of the acceptance or rejection of the items or equipment. The Agency, after receiving notice, will take appropriate action to have the items or equipment made acceptable for the Contractor's use. Rejected items shall be carefully stored and protected from damage by the Contractor until the Agency takes appropriate action.

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Special Provisions

Division 01 - Section 01010 - 5  
General Requirements and Summary of Work

Bid Documents  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

5. The Contractor shall be responsible for final placing, installation, connection, start-up, checking, testing, and demonstrating satisfactory operation. The Agency will provide names of manufacturer(s) representatives, who will assist the Contractor in checking, testing, and demonstrating the equipment.

**H. SAFETY AND SECURITY:**

1. Contractor shall be responsible for the installation and maintenance of any protective barricades, protective cables, protection planking and/or similar protective devices in accordance with all local, State or Federal agencies and the Agency's requirements, around or over elevator shafts, mechanical shafts, stair openings, other floor openings and around the exterior perimeter of any floor/deck edges as it relates specifically to this Contractor's scope of work. This protective work shall be coordinated with the work of other contractors and the Agency's requirements for access. Contractor shall be responsible to maintain safe working conditions and reinstall all protective devices immediately as required by CAL-OSHA and the Agency. Similarly, should this Contractor remove the protective devices, Contractor shall be responsible to maintain safe working conditions and to reinstall those protective devices immediately as required by CAL-OSHA and the Agency. Should this Contractor fail to maintain safe working conditions in any manner whatsoever, the Agency may immediately order the unsafe condition correct by others and charge the delinquent Contractor for all costs involved. Contractor shall at all times adhere strictly to Cal-OSHA regulations with regard to workplace safety. Contractor recognizes and agrees with the fact that Cal-OSHA establishes a minimum level of workplace safety and those job conditions may require the adoption of safety practices and procedures, which exceed that of Cal-OSHA. As a result, Contractor agrees to institute such additional safety measures as the Agency may suggest as necessary. Contractor shall designate, post, and strictly enforce the entire construction site as a Hard Hat Area.
2. Proper Personal Protective Equipment (PPE) and Clothing shall be worn at all times. Prohibited clothing includes but is not limited to tennis shoes, OSHA tennis shoes, shorts or cut-offs, shirts without sleeves, muscle shirts. Hardhat and safety glasses shall be worn at all times in a manner conforming to Manufacturer's and or OSHA standards. The construction area shall be designated, posted, enforced at all times for proper PPE and clothing compliance.
3. Contractor shall post all building envelope access ways as "No-Food within the Building Area". The consumption of food products within the building envelope shall be strictly prohibited and enforced without prejudice. During inclement periods, the Contractor shall provide dry areas for the consumption of food products.
4. Upon a daily basis, at all times, or more often as required by Cal-OSHA, the Agency or the Project Manager, Contractor shall keep the work areas, the Agency's occupied areas, the areas outside the building and the adjacent streets and sidewalks clean and free from materials, equipment, debris, artifacts, nails, residual or trash resulting from Contractor's own operations in a manner and to the extent acceptable to the Agency, and Project Manager. Contractor shall record and document the daily and weekly Safety and Health Monitoring results, and correct as required by

VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW RESTROOM REMODEL PROJECT  
1910 CHURCH STREET, SIMI VALLEY, CA 93065

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Contract and law. Copies of the Daily and Safety Health Monitoring results shall be transmitted upon request by the Project Manager.

5. Provide flagmen and perform all traffic control, in connection with Contractor's own Work, as required for the protection of pedestrian and vehicular traffic. The provision of barricades and warning lights shall be the responsibility of the Contractor for activities associated with its Work. Contractor shall maintain all pedestrian and vehicle accesses at all times unless otherwise approved. Roadway vehicle through traffic shall and will not be allowed to cross the site property.
6. Contractor shall provide for all ongoing and final cleanup of all debris resulting from all Work. Said cleanup shall include removal from all work areas and legal disposal into dumpster bins provided by the Contractor. Contractor shall maintain all areas associated with this Project clean and free of debris, artifacts, and residual, free of vandalism residual and free of graffiti at all times.
7. Contractor shall be responsible for taking all safeguards necessary for fire protection and fire prevention (Reference 29 CFR 1910, 1926, NFPA 241, CAL-OSHA 4848, T8-CCR).
8. The Contractor and Subcontractors shall continuously protect the Work, the District's property, and the property of others, from damage, injury, or loss arising in connection with operations under the Contract Documents. The Contractor and Subcontractors, at their own expense, shall make good any such damage, injury, or loss, except such as may be solely due to, or caused by, agents or employees of the District.

The Contractor, at Contractor's expense, will remove all mud, water, or other elements as may be required for the proper protection and prosecution of its Work. (Reference Storm Water Pollution Control requirements).

Contractor shall take adequate precautions to protect existing roads, sidewalks, curbs, pavements, utilities, adjoining property and structures (including, without limitation, protection from settlement or loss of lateral support), and to avoid damage thereto, and repair any damage thereto caused by construction operations. All permits, licenses, or inspection fees required for such maintenance or repair Work shall be obtained and paid for by Contractor.

9. Contractor shall provide and maintain a Daily Project Sign-In-Sheet at the entrances to all areas of work. The sign in sheet will be located in highly visible area and will consist of the following:
  - a. Date & Time
  - b. First and Last Name (print)
  - c. Company
  - d. Reason for Visit
  - e. Signature
10. Contractor/Subcontractor shall make available upon request by the Project Manager the following items, as applicable (including but not limited to):

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Special Provisions

Division 01 - Section 01010 - 7  
General Requirements and Summary of Work

Bid Documents  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW RESTROOM REMODEL PROJECT  
1910 CHURCH STREET, SIMI VALLEY, CA 93065

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- a. Pre-Job Site Orientation and Pre-Job Site Training Log for each individual employee, by each and every contractor and subcontractor, vendor and supplier accessing this Project site.
  - b. Confined Space Permit and Log (CAL-OSHA 5156-5158, T8-CCR, 29 CFR 1910, 1926).
  - c. Hot Work Permit and Log (NFPA 241 CAL-OSHA 4848, T8-CCR, 29 CFR).
  - d. Lock Out Tag Out -- LOTO plan, procedures and log (CAL-OSHA, T8-CCR, GISO 3314, ESO 2320, 29 CFR).
  - e. Equipment and Tool Training Log (CAL-OSHA 3203.a.7, 29 CFR).
  - f. Employee Qualifications for work being performed, unless otherwise requested (CAL OSHA 2320.1.a, 29 CFR. This requirement is for disciplines).
  - g. Hazardous Materials Log (T8-CCR, CAL OSHA 1510, 29 CFR).
  - h. Material Safety Data Sheets – MSDS (T22-CCR 12000, CAL OSAH 5194, 29 CFR).
  - i. Hazardous Materials Program (CAL OSHA 5194, 29 CFR).
  - j. Emergency Response Plan (CAL OSHA 1512.d, OSHA Poster S-500, 29 CFR).
  - k. Employee Orientation Log and Documentation (29 CFR)
  - l. Substance Abuse Policy and Procedures (29 CFR)
  - m. Chemical Inventory Log (29 CFR)
  - n. Process Safety Management Program (29CFR 1910, 1920)
  - o. VOC Report
  - p. OSHA 300 Log (29 CFR)
  - q. Environmental Safety and Health Program (29 CFR)
  - r. Corporate Criminal Liability Act (CCLA), California Penal Code 387 compliance.
  - s. Contractor and Subcontractor EMR's (CAL OSHA, 29 CFR).
  - t. Subcontractor Pre-Construction Meeting Minutes (29CFR, CCLA).
  - u. As-Built Drawings / Red-Lines (Contract Documents).
  - v. Employee Safety Violation Warning and Notification Log (29 CFR).
  - w. Subcontractor Quality Control Non-Conformance Reports and Log (Contract Documents).
  - x. Cleanliness and Health Deficiency Notices to Subcontractors (29 CFR).
  - y. Scaffold Inspection Report (CAL OSHA 341.a, 1670-1671.2)
  - z. SCAQMD Permits
  - aa. Injury and Illness Prevention Program (CAL OSHA 3203)
  - bb. Emergency Medical Services (EMS) (CAL OSHA 1504.a, 1512.b)
  - cc. Workplace Security Plan (CAL OSHA and CAL Labor Code).
  - dd. Written Code of Safe Practices (CAL OSHA 1509.b).
  - ee. HAZWOPER Training and Certification (29 CFR).
11. The Contractor shall make available, at the construction site, as required, as applicable, a copy of all applicable laws, rules, codes, ordinances, and regulations books or sections upon request by the Project Manager.
12. An EMR Safety Rating (Experience Modifier Rate) greater than 1.25 requires notification to CAL-OSHA, per CAL-OSHA regulations. An EMR rating greater than 1.0 requires that the General

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Special Provisions

Division 01 - Section 01010 - 8  
General Requirements and Summary of Work

Bid Documents  
Ventura County Fire Protection District  
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1910 Church Street, Simi Valley, California 93065  
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VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW RESTROOM REMODEL PROJECT  
1910 CHURCH STREET, SIMI VALLEY, CA 93065

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Contractor and the applicable subcontractor submit a Safety Plan for review that delineates the methods that will be empowered to assure a safe working site for all parties associated with this Project.

**I. REGULATORY:**

1. Provide for any special requirements of the City, County or State Departments of Building and Safety, Fire Department, Department of Public Works, Cal-OSHA, and any other governing agency having jurisdiction over the Project.

**J. NON-CONFORMING WORK:**

1. Contractor shall promptly remove and reinstall any and all non-conforming work, at its own expense and without delays to the Work, in such a manner so as to completely conform to the approved submittals and in complete conformance with the Contract Documents.

**K. EXECUTION OF WORK:**

1. Provide all materials, equipment, skilled and knowledgeable manpower and supervision and/or overtime, at no increase to Contract Price, to maintain the rate of installation required to accommodate the Project Schedule.
2. Contractor shall be responsible to field measure all work as may be necessary prior to the production of shop drawings, submittals, and fabrication.
3. Contractor is fully responsible for the incorporation into its Work, of all applicable information as shown or reasonably implied by or inferred from the Construction Documents.
4. Contractor shall cooperate fully with any contractors, vendors, testing and inspection agency retained by the Agency and/or required by governing agencies having jurisdiction over the Project, including any remedial work required by said inspector.
5. Contractor shall comply with all equal employment opportunity and affirmative action requirements of Federal, State, and local authorities.
6. Sufficient manpower shall be provided at all times to maintain the scheduled progress of the job. A shortage of manpower in the industry shall not be accepted as an excuse for not properly manning the job so as to maintain schedule and avoid delays or added costs to the Agency and/or other contractors. The Project Manager shall give the Contractor written notice if such manpower shortage occurs which may negatively affect the overall construction schedule. Only one notice will be issued as a warning, the second notice will be a request for the Contractor to replace the responsible party. Contractor shall immediately rectify the situation by scheduling adequate crew to replace those who are not performing per schedule. Any cost or schedule impacts will be at the sole cost to the Contractor.

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Special Provisions

Division 01 - Section 01010 - 9  
General Requirements and Summary of Work

Bid Documents  
Ventura County Fire Protection District  
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Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
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VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW RESTROOM REMODEL PROJECT  
1910 CHURCH STREET, SIMI VALLEY, CA 93065

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7. The Contractor shall be responsible for maintaining in working order at all times, all existing utilities and equipment serving VCFPD's Fire Station 41 in Simi Valley and the surrounding areas. The Contractor shall coordinate any/all utility transfers, shutdowns, relocations required for the Project, a minimum of 2 working days prior to the anticipated date of work. All requests shall be made in writing to the Project Manager and shall include date, time, and duration requested for the work.

All work related to the utilities will be scheduled for off peak hours (weekdays – 6 pm to 6 am, weekends, and holidays) at no additional cost to the Contract. Any unanticipated utility failure caused by the Contractor will result in back charges to the Contractor from the Fire District for the sum of cost plus administrative and management fees by the Agency or its Representatives.

8. The Project Manager shall have the authority to communicate directly with all personnel related to this Project including (Contractors, Subcontractors, Vendors, and Inspectors) with respect to schedule, quality control, change orders, and manpower.
9. As applicable, the Contractor shall schedule the final coat of painting work to be applied after the first Punch List is generated and near its completion.
10. All repair work shall be completed by painting edge to edge.

**L. DAILY CONSTRUCTION REPORTS:**

Daily Work Reports shall be completed by the Contractor and submitted to the Project Manager at the end of each day and at a minimum shall include the following:

- a. List of subcontractors at the site;
- b. Accurate count of contractor, subcontractor, and visitor personnel at the site;
- c. Morning and afternoon weather conditions;
- d. Accidents and unusual events;
- e. Meetings and significant decisions;
- f. Stoppages, delays, shortages, losses;
- g. Emergency procedures;
- h. Orders and requests of governing authorities;
- i. Change Orders received;
- j. Utility shutdowns;
- k. Written and verbal inspections approvals and rejections from regulatory agencies;
- l. Tests and start-ups;
- m. Substantial completions authorized;
- n. Accurate description of each construction activity occurring during the day and reference activities, equipment, materials, involved therewith;
- o. Requests for information issued and replies received;
- p. Submittals issued and replies received.

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Special Provisions

Division 01 - Section 01010 - 10  
General Requirements and Summary of Work

Bid Documents  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

**M. WEEKLY CONSTRUCTION REPORTS (including but not limited to the following):**

1. Contractor shall provide and submit for record on a weekly basis the following:
  - a. Weekly Safety Audit Report.
  - b. Weekly Request for Information -- RFI Log.
  - c. Weekly Submittal Log.
  - d. Weekly Equipment Delivery Schedule.
  - e. Weekly Change Order Log/Change Order Request/Possible Cost Log.
  - f. Weekly Project Schedule Status and Update.
  - g. Weekly Open and/or Unresolved Issues Report and/or Log.

**N. QUALITY ASSURANCE:**

1. Particular attention shall be given to the quality assurance for the Work. All mock-ups and samples to be performed and provided by this Contractor.
2. For all material and equipment specified or indicated in the Plans, the Contractor shall provide all labor, materials, equipment, and services necessary for complete assemblies and complete working systems. Incidental items not indicated on the Plans, nor mentioned in the Specifications, that can legitimately and reasonably be inferred to belong to the Work described, or be necessary in good practice to provide a complete assembly or system, shall be furnished as though itemized in the Contract Documents in every detail. In all instances, material and equipment shall be
3. installed in strict accordance with each manufacturer's most recent published recommendations and specifications.
4. Contractor shall provide and install approved caulking and/or sealant as shown upon the Plans and as required to properly complete Contractor's penetrations of water-resistant/proof, weather-resistant/proof, fire-rated and/or sound-rated surface, including all building exterior penetrations, joints, and seams.

**O. EMPLOYEES:**

1. All workers and supervision to be skilled, knowledgeable, experienced, and able to communicate for safety issues in English in their trades. The following are strictly prohibited:
  - a. The wearing of tennis shoes, shorts, cut-off pants, sleeveless shirts, vulgar or offensive apparel, jewelry, etc.
  - b. The displaying or presentation of offensive posters, symbols, insignias, labels, stickers, signs, etc.
  - c. The use of offensive or vulgar language;
  - d. The use of alcohol or any other drugs or substances which may cause intoxication;
  - e. Being onsite while in a state of intoxication or under influence of a control substance;



VENTURA COUNTY FIRE PROTECTION DISTRICT  
INTERIOR RENOVATION AT FIRE STATION 41  
BATTALION CHIEF QUARTERS & CREW RESTROOM REMODEL PROJECT  
1910 CHURCH STREET, SIMI VALLEY, CA 93065

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- f. The making of lewd or suggestive remarks or gestures;
- g. Unsafe working practices;
- h. The playing of radios and the wearing of headphones;
- i. The possession of any weapons in the vicinity of the Project site;
- j. The disturbance or inconvenience to the occupants of surrounding buildings, businesses and residences;
- k. Not complying with OSHA safety orders;
- l. Animal(s), or pet(s);
- m. Unauthorized visitors or guests;
- n. Unprofessional or unacceptable behavior, posture, attitude, disposition;
- o. Non-contract compliant behavior;
- p. Eating or the consumption of food products or the drinking and/or consumption of non-water items within the building envelope;
- q. Dark Glasses inside the building envelope and enclosed or covered area;
- r. Cooking on outside burner or stove;
- s. Hard Hat not being worn with brim forward at all times;
- t. Smoking except in designated area, and smoking inside of building envelope at any time; Cigarette/Cigar/Other butts and smoking refuse disposed of in an appropriate receptacle;
- u. Spitting or discharge of bodily fluids or other unsanitary practices.

At the sole discretion of the Project Manager or the Agency, any Contractor whose employee are observed engaging in any of the mentioned prohibited practices, activities, etc., shall be immediately and permanently removed from Project.

**P. JOB SITE SAFETY MEETINGS:**

1. The Contractor is required to conduct Weekly Tail Gate and Toolbox safety meetings with Contractor's own workers and subcontractors' representatives. Records of these meetings signed by all attendees, shall be forwarded with the Contractor's Daily Reports to the Project Manager.

**Q. PARKING:**

1. Parking areas for Contractor, subcontractor, suppliers, vendors, and their respective employees shall be designated and delimited. Contractor(s) shall not utilize VCFPD's Fire Station 41 parking areas at any time, unless approved by Agency and Project Manager. Contractor(s) shall not inhibit traffic flow.

**R. SCAFFOLDING:**

1. Contractor shall furnish, erect/remove its own scaffolding. Where this Contractor erects or causes to have erected, scaffolding (inclusive of decking, work platforms, staging, etc.) for its own usage in the performance of its Work, this Contractor shall permit others to utilize its scaffolding for the performance of their work during the period wherein the scaffolding remains erected. The Contractor shall not charge others for the right to use erected scaffolding. Scaffolding shall be installed and assembled in compliance with all regulations. Scaffolding not tagged for use shall not be utilized. Contractor shall make available upon demand a Scaffolding Checklist for all stages, phase, and sections of scaffolding.

**S. REQUEST FOR INFORMATION:**

1. For each Request for Information (RFI) received from Contractor that the Project Manager determines is frivolous or submitted in bad faith the Agency may back-charge Contractor and deduct from the following progress payment applications the cost to the Agency of the time spent in researching and documenting the unnecessary request, not to exceed two hundred dollars (\$200.00). All RFIs, clarifications or requests for decisions necessary to allow continuous scheduled progress of work shall be submitted by the Contractor a minimum of two working days prior to it being needed. Delays resulting from inadequate notice, as required herein, shall be borne by the Contractor. Only one question or issue shall be indicated or identified per each RFI. Contractor shall also indicate or reflect the possible solution(s) or resolution(s) if applicable.

**T. ADDITIONAL SAFETY REQUIREMENTS (as applicable to this Project):**

1. At all times when work is not being performed by Contractor or when Contractor is not on the job site, all open trenches shall be covered with approved trench plates or provide/install a temporary security fence at approved height, which shall be erected before start of trench work and removed upon completion of the work.

END OF DIVISION 1 SECTION 01010

# **RFI (Request for Information) Sample**

Bid Documents – RFI Sample  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

REQUEST FOR INFORMATION (RFI)

RFI # : \_\_\_\_\_

TO: Ventura County Fire Protection District

DATE: \_\_\_\_\_

ATTENTION: District Representative or Architect of Record (Roy E. Colbert, Architect)

PROJECT NAME: Interior Renovation at FS 41 – Battalion Chief Quarters & Crew Bathroom Remodel

PROJECT ADDRESS: 1910 Church Street, Simi Valley, CA 93065

Sheet Number: \_\_\_\_\_

Bulletin or Delta Number: \_\_\_\_\_

Spec. Section \_\_\_\_\_

Sheet Details: \_\_\_\_\_

REQUEST FOR INFORMATION: (Reference attached sheets.)

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CONTRACTOR'S RECOMMENDATION: (Reference attached sheets.)

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Requested by: \_\_\_\_\_  
Signature Print Name & Title

The above information is requested on or before: \_\_\_\_\_

Cost Impact: \_\_\_ Yes \_\_\_ No \_\_\_ Possible

Time Impact: \_\_\_ Yes \_\_\_ No \_\_\_ Possible

RFI RESPONSE: (Reference attached sheets.)

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Response Issued By: \_\_\_\_\_  
Signature Print Name

Date: \_\_\_\_\_

Request for Information – Bid Phase  
Bid Documents  
Ventura County Fire Protection District  
Interior Renovation at Fire Station 41  
Battalion Chief Quarters & Crew Bathroom Remodel Project  
1910 Church Street, Simi Valley, California 93065  
Bid Due Date and Time – April 25, 2024 @ 1:00 PM

# **Ventura County Fire Protection District**

## **APPENDIX 1**

### **Structural Engineering Calculations**

**By: Corrie Putney Engineer, Inc.**

Corrie  
Putney  
Engineer, Inc.

engineercorrie@gmail.com  
698 Westfield Ct., Ventura, CA 93004  
(805) 901-2078

## Engineering Calculations

*Project:*  
Fire Station Remodel, Sta. 41  
1910 Church St.  
Simi Valley, CA 93065

*Architect:*  
Roy E. Colbert, Architect  
1997 E. Main St.  
Ventura, CA 93001



6/1-10  
4/24/23

PCC revised 8/23/23:  
Page 3, 4, 7, 8, 8a

Project Description: Residential

Reference: 2022 CBC / 2021 IBC

**Loads:**

roofing note: C=Comp. Shingles, L=lightweight, T=tile/slate

Vertical

flooring note: C=Carpet/wood/vinyl, T=tile and mortar

Roof: \_\_\_\_\_ Slope 4:12

Roofing:

C 3.0 psf

Sht'g 1.8

Framing 1.0 9.5" TJI35 at 2'8"oc PER PLANS

Mech/Elec 1.0

Ceiling tbar 4.0

Insulation 0.5

Fire Spr 2.0

Misc. 1.7

Total DL 15.0 psf

Total LL 20.0 psf

Total DL+LL 35.0 psf

Horizontal

see Lateral Analysis

**MATERIAL SPECIFICATIONS:**

1. TIMBER DOUGLAS FIR LARCH, 19% MAX. MOISTURE CONTENT  
USE #2DFL FOR ALL 2X, 3X AND 4X MEMBERS  
USE #1DFL FOR A LL POSTS AND 6X MEMBERS  
PARALLAM 2.0 WS, MICROLLAM 1.9E  
PLYWOOD SHEATHING APA DOUGLAS FIR CDX  
MINIMUM NAILING PER CBC TABLE 2304.10.1
2. MASONRY GRADE 'N' LIGHTWEIGHT UNITS, SOLID GROUTED,  
MORTAR TYPE M (ASTM C476) AND GROUT (ASTM C94)  
 $f'_c=1,250$  psi at 7 days,  $f'_c=2,000$ psi at 28 days
3. CONCRETE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS  $f'_c=2,500$ psi  
CEMENT TYPE II, LOW ALKALI, 5 1/2 SACKS/YARD, 1" MAX.  
AGGREGATE
4. REINF. STEEL GRADE 40 FOR #3 BARS, GRADE 60 FOR ALL  
OTHER BARS (ASTM A615), UNO
5. CONNECTORS BOLTS: ASTM A307, HOLES MAX. 1/16" OVERSIZED  
NAILS: USE COMMON NAILS, SINKERS NOT ALLOWED  
8d= 0.131" dia., 10d=0.148" dia., 16d=0.162" dia.





Corrie Putney Engineer Inc.  
engineercorrie@gmail.com  
698 Westfield Ct  
Ventura, CA 93004  
805-901-2078

Project Title: RC/Simi Valley Fire Station #41  
Engineer: CAP  
Project ID:  
Project Descr:

Printed: 22 AUG 2023, 5:51PM

## Wood Beam

Project File: RCSVFireSta.ec6

LIC# : KW-06015611, Build:20.23.08.01

CORRIE PUTNEY ENGINEER INC.

(c) ENERCALC INC 1983-2023

DESCRIPTION: H1 hdr

## CODE REFERENCES

Calculations per NDS 2018, IBC 2021, ASCE 7-16  
Load Combination Set : IBC 2021

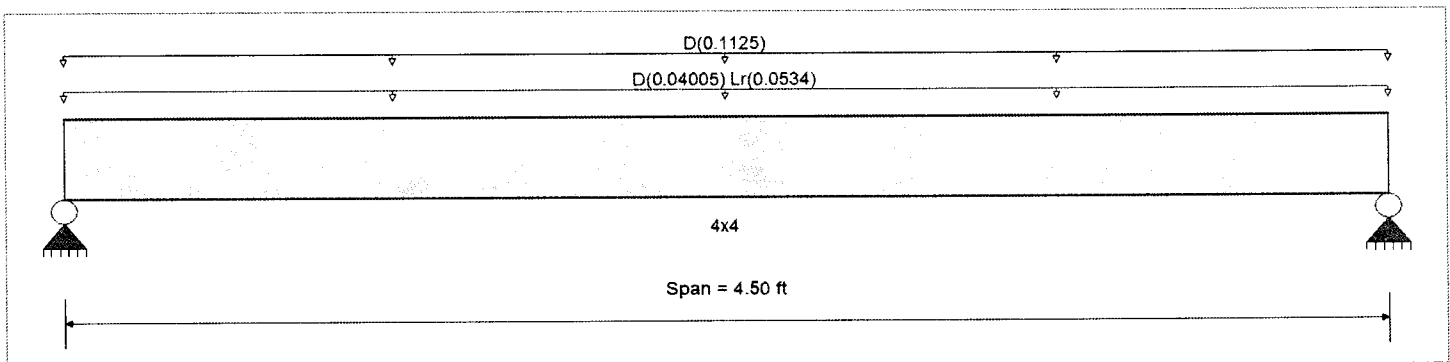
## Material Properties

Analysis Method : Allowable Stress Design  
Load Combination : IBC 2021

Wood Species : Douglas Fir-Larch  
Wood Grade : No.2

Fb + 900 psi E : Modulus of Elasticity  
Fb - 900 psi Ebend- xx 1600ksi  
Fc - Prll 1350 psi Eminbend - xx 580ksi  
Fc - Perp 625 psi  
Fv 180 psi  
Ft 575 psi Density 31.21 pcf

Beam Bracing : Beam is Fully Braced against lateral-torsional buckling



## Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Beam self weight NOT internally calculated and added

Uniform Load : D = 0.0150, Lr = 0.020 ksf, Tributary Width = 2.670 ft

Uniform Load : D = 0.0150 ksf, Tributary Width = 7.50 ft, (wall above)

## DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.534	1	Maximum Shear Stress Ratio	=	0.227	1
Section used for this span		4x4		Section used for this span		4x4	
fb: Actual	=	648.45psi		fv: Actual	=	36.81 psi	
F'b	=	1,215.00psi		F'v	=	162.00 psi	
Load Combination		D Only		Load Combination		D Only	
Location of maximum on span	=	2.250ft		Location of maximum on span	=	4.221 ft	
Span # where maximum occurs	=	Span # 1		Span # where maximum occurs	=	Span # 1	
Maximum Deflection							
Max Downward Transient Deflection	0.025 in	Ratio =	2180 >= 360	Span: 1 : Lr Only			
Max Upward Transient Deflection	0 in	Ratio =	0 < 360	n/a			
Max Downward Total Deflection	0.096 in	Ratio =	565 >= 240	Span: 1 : +D+Lr			
Max Upward Total Deflection	0 in	Ratio =	0 < 240	n/a			

## Vertical Reactions

Support notation : Far left is #1

Values in KIPS

Load Combination	Support 1	Support 2
Max Upward from all Load Conditions	0.463	0.463
Max Upward from Load Combinations	0.463	0.463
Max Upward from Load Cases	0.343	0.343
D Only	0.343	0.343
+D+Lr	0.463	0.463
+D+0.750Lr	0.433	0.433
+0.60D	0.206	0.206
Lr Only	0.120	0.120

## Wind Design

(updated 1/2020)

ASCE 7-16 Chapter 28 Part 2, Enclosed Simple Diaphragm Low-Rise Buildings

Basic Wind Speed, V:	110 mph
Risk Category:	IV
Exposure Category:	C
Top. Factor, $K_{zt}$ :	1.0
Roof Angle:	4 :12
Mean Roof Height:	15 feet
Lambda, $\lambda$ :	1.21

Figure 26.5-1  
Table 1.5-1  
ASCE 26.7  
ASCE 26.8.2

Figure 28.5-1

$P_{s30}$ (psf)							
Horizontal Pressure				Vertical Pressures			
A	B	C	D	E	F	G	H
26.6	-7	17.7	-3.9	-23.1	-16	-16	-12.2

### Adjusted Wind Pressures, $P_s$

Eqn. 28.5-1

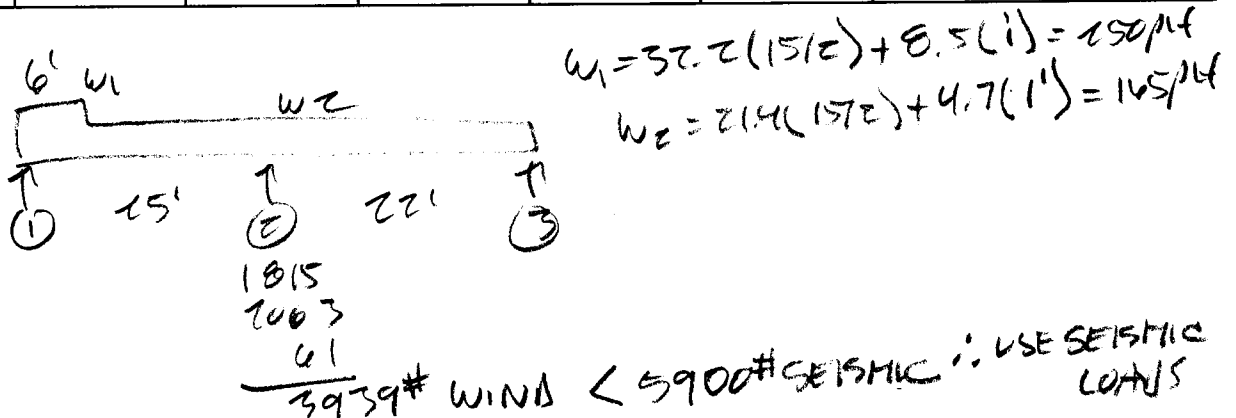
$$P_s = \lambda * K_{zt} * P_{s30}$$

$P_s$ (psf)							
Horizontal Pressure				Vertical Pressures			
A	B	C	D	E	F	G	H
32.2	-8.5	21.4	-4.7	-28.0	-19.4	-19.4	-14.8

### Minimum Design Wind Pressures (psf)

Section 28.5.4

Horizontal Pressure				Vertical Pressures			
A	B	C	D	E	F	G	H
16.0	8.0	16.0	8.0	0.0	0.0	0.0	0.0



# LATERAL ANALYSIS

## WIND VS. SEISMIC

→ SEISMIC RISK CAT. IV

$$V = 0.3578 W_{HL}$$

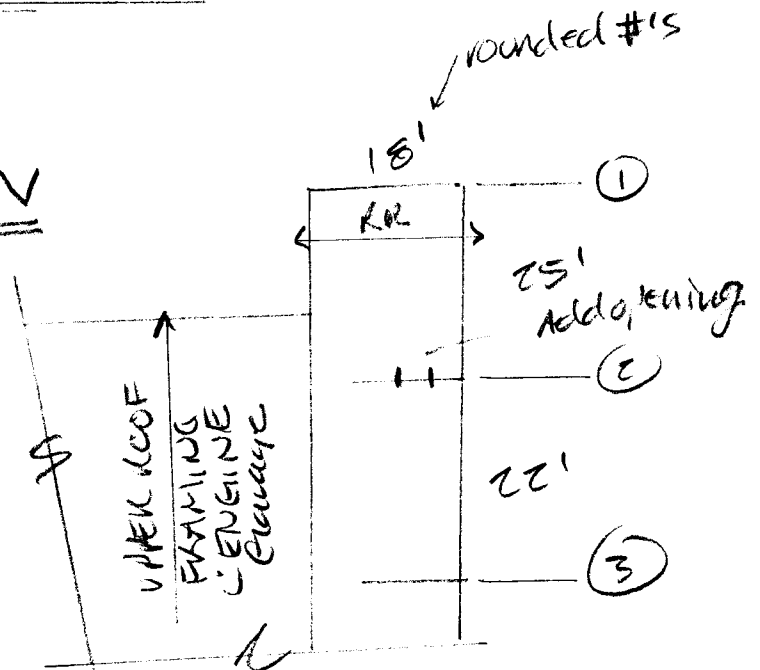
$$V = 0.3578 \left[ (15 \text{ psf}) (18') + 3 \left( \frac{12' \text{ AVG}}{2} (15 \text{ psf}) \right) \right]$$

$$V = 193 \text{ lb}$$

$$\text{USE } \rho = 1.3$$

$$V_{12} = 193 (25/2) 1.3 = 3140 \#$$

$$V_{23} = 193 (22/2) 1.3 = 2760 \#$$



## ASCE Seismic Base Shear

Lic. #: KW-06003880

### Risk Category

### Calculations per ASCE 7-16

Risk Category of Building or Other Structure: "IV" : Buildings and other structures designated as essential facilities.

ASCE 7-16, Page 4, Table 1.5-1

Seismic Importance Factor = 1.5

ASCE 7-16, Page 5, Table 1.5-2

### USER DEFINED Ground Motion

ASCE 7-16 11.4.2

Max. Ground Motions, 5% Damping :

$S_S = 1.938$  g, 0.2 sec response  
 $S_1 = 0.6540$  g, 1.0 sec response

### Site Class, Site Coeff. and Design Category

Site Classification "D" : Shear Wave Velocity 600 to 1,200 ft/sec = D (By Default per 11.4.3)

ASCE 7-16 Table 20.3-1

Site Coefficients  $F_a$  &  $F_v$   
(using straight-line interpolation from table values)

$F_a = 1.20$   
 $F_v = 1.70$

ASCE 7-16 Table 11.4-1 & 11.4-2

Maximum Considered Earthquake Acceleration

$S_{MS} = F_a * S_s = 2.326$   
 $S_{M1} = F_v * S_1 = 1.112$

ASCE 7-16 Eq. 11.4-1

ASCE 7-16 Eq. 11.4-2

Design Spectral Acceleration

$S_{DS} = S_{MS}^{2/3} = 1.550$   
 $S_{D1} = S_{M1}^{2/3} = 0.741$

ASCE 7-16 Eq. 11.4-3

ASCE 7-16 Eq. 11.4-4

Seismic Design Category

= D

ASCE 7-16 Table 11.6-1 & -2

### Resisting System

ASCE 7-16 Table 12.2-1

Basic Seismic Force Resisting System

#### Bearing Wall Systems

15. Light-frame (wood) walls sheathed w/wood structural panels rated for shear resistance.

Response Modification Coefficient "R" = 6.50  
System Overstrength Factor "Wo" = 2.50  
Deflection Amplification Factor "Cd" = 4.00

Building height Limits :

Category "A & B" Limit: No Limit  
Category "C" Limit: No Limit  
Category "D" Limit: Limit = 65  
Category "E" Limit: Limit = 65  
Category "F" Limit: Limit = 65

NOTE! See ASCE 7-16 for all applicable footnotes.

### Lateral Force Procedure

ASCE 7-16 Section 12.8.2

Equivalent Lateral Force Procedure

The "Equivalent Lateral Force Procedure" is being used according to the provisions of ASCE 7-16 12.8

### Determine Building Period

Use ASCE 12.8-7

Structure Type for Building Period Calculation : All Other Structural Systems

"Ct" value = 0.020 "hn" : Height from base to highest level = 15.0 ft  
"x" value = 0.75

"Ta" Approximate fundamental period using Eq. 12.8-7 :  $T_a = C_t * (h_n^x) = 0.152$  sec

"TL" : Long-period transition period per ASCE 7-16 Maps 22-14 -> 22-17 8.000 sec

= 0.152 sec

### "Cs" Response Coefficient

ASCE 7-16 Section 12.8.1.1

$S_{DS}$  Short Period Design Spectral Response = 1.550 From Eq. 12.8-2, Preliminary  $C_s$  = 0.358  
"R" : Response Modification Factor = 6.50 From Eq. 12.8-3 & 12.8-4,  $C_s$  need not exceed = 1.122  
"I" : Seismic Importance Factor = 1.5 From Eq. 12.8-5 & 12.8-6,  $C_s$  not be less than = 0.075

$C_s$  : Seismic Response Coefficient = 0.3578

ASCE 7-16 Section 12.8.1

### Seismic Base Shear

$C_s = 0.3578$  from 12.8.1.1

W ( see Sum  $W_i$  below ) =

Seismic Base Shear  $V = C_s * W =$

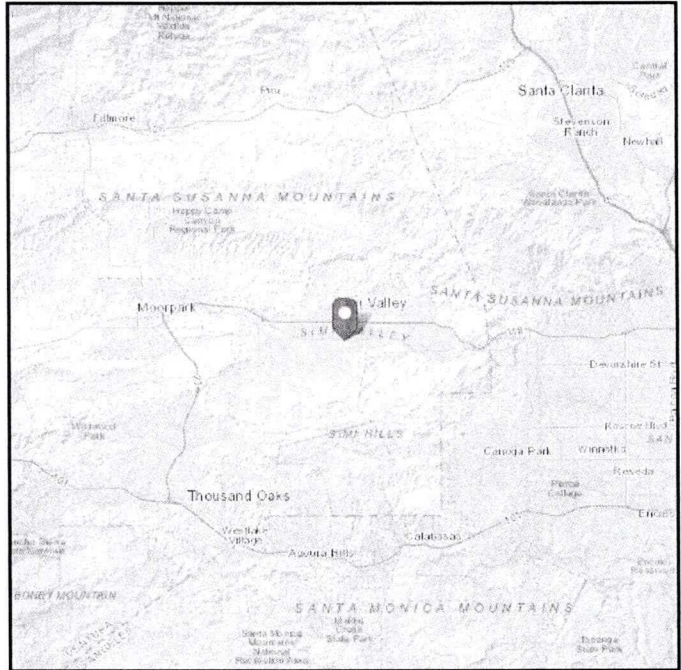
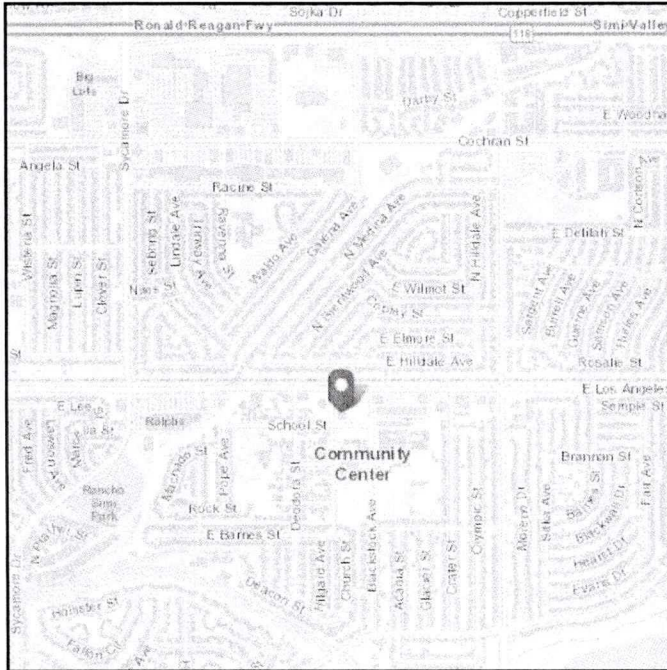
~~0.00 k~~  
~~0.00 k~~

# ASCE 7 Hazards Report

**Address:**  
1910 Church St  
Simi Valley, California  
93065

**Standard:** ASCE/SEI 7-16  
**Risk Category:** IV  
**Soil Class:** D - Default (see  
Section 11.4.3)

**Latitude:** 34.270971  
**Longitude:** -118.736206  
**Elevation:** 924.4548662918723 ft  
(NAVD 88)



## Wind

### Results:

Wind Speed	105 Vmph
10-year MRI	65 Vmph
25-year MRI	71 Vmph
50-year MRI	76 Vmph
100-year MRI	80 Vmph

USE 110mph SEE calc page 4

**Data Source:** ASCE/SEI 7-16, Fig. 26.5-1D and Figs. CC.2-1-CC.2-4, and Section 26.5.2  
**Date Accessed:** Wed Aug 23 2023

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 1.6% probability of exceedance in 50 years (annual exceedance probability = 0.00033, MRI = 3,000 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

9

**Site Soil Class:** D - Default (see Section 11.4.3)

**Results:**

$S_s$ :	1.938	$S_{D1}$ :	N/A
$S_1$ :	0.654	$T_L$ :	8
$F_a$ :	1.2	$PGA$ :	0.799
$F_v$ :	N/A	$PGA_M$ :	0.958
$S_{MS}$ :	2.325	$F_{PGA}$ :	1.2
$S_{M1}$ :	N/A	$I_e$ :	<u>1.5</u>
$S_{DS}$ :	1.55	$C_v$ :	1.488

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

**Data Accessed:** Wed Aug 23 2023

**Date Source:** USGS Seismic Design Maps

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

## S H E A R W A L L S C H E D U L E

SHEAR-WALL	½" STRUC I PLYWOOD, see note 2 for nail size	RIM/BLKG TO PL. CONN.	BOTTOM PL. CONN.	SILL PL. AND ANCHOR BOLTS	ALLOW. SHEAR see note 1
1	10d @ 6"oc BN, EN 10d @ 12"oc FN	A35 @ 16"oc	2x SILL PL w/ 16d @ 4"oc	2x FDN SILL PL w/ 5/8" DIA. @ 48"oc	310 plf
2	10d @ 4"oc BN, EN 10d @ 12"oc FN <b>Spec. Insp. Reqd.</b>	A35 @ 16"oc	3x SILL PL w/ SDS1/4x6" SCREW @ 6"oc	3x FDN SILL PL w/ 5/8" DIA. @ 32"oc	460 plf
3	10d @ 3"oc BN, EN 10d @ 12"oc FN <b>Spec. Insp. Reqd.</b>	A35 @ 12"oc	3x SILL PL w/ 3/8" DIA. LAG BOLT @ 6"oc	3x FDN SILL PL w/ 5/8" DIA. @ 24"oc	610 plf
4	10d @ 2"oc BN, EN 10d @ 12"oc FN <b>Spec. Insp. Reqd.</b>	A35 @ 8"oc	3x SILL PL w/ 3/8" DIA. LAG BOLT @ 4"oc	3x FDN SILL PL w/ 5/8" DIA. @ 16"oc	800 plf

## Shearwall Schedule Notes:

1. Use 15/32" or ½" Structural Plywood (5 ply), Product Standard Doc PS1 or PS2 on all shearwalls or equivalent wood structural panel. Where plywood is indicated on any portion of a wall line, continue the same installation on the entire wall line, including around doors and windows. Allowable shear includes 0.92 factor for Holdowns attached to inside face of end post.
2. Use common carbon steel smooth shanked nails, do not use sinkers or clipped head nails (10d common = 3"x 0.148" dia. x 0.312" head dia.), 16d = 3.5" x 0.162" dia. x 0.344" head dia.). Galvanized box nails may be substituted (10d galv box = 3"x 0.126" dia. x 0.312" head dia.). All bolt holes in wood shall be a maximum of 1/32" to 1/16" oversized.
3. The following applies to shearwalls 2, 3 and 4:
  - A. Shearwall Periodic Special Inspection Required per IBC Sec 1705.12.2.2. The following elements of the shearwall shall be inspected: nailing, bolting, anchoring and other fastening of elements of the lateral resisting system including shearwalls, roof and floor diaphragms, drag struts, braces, shear panels and holdowns. See also note 8 on sheet S0.
  - B. Use 3x PTDF foundation sill plates over concrete and masonry at new construction. Use 3/8" diameter lag bolts to 3x minimum blocking or rim joist with 4" minimum embedment. Predrill 3/16" diameter hole for threaded shank and 3/8" diameter for unthreaded shank.
  - C. Use 3x studs at all plywood panel edges or double 2x studs faced together with 10d staggered and spaced per shearwall BN spacing.
  - D. Provide ½" edge distance for plywood nailing, stagger nailing in double top plates, at plywood joints and at sill plate nailing.
4. Use PTDF sill plates. Sill plates shall be attached with 5/8" diameter anchor bolts embed 7" minimum at 48"oc, UNO in shearwall schedule. There shall be a minimum of 2 bolts per sill plate piece with one bolt located within 9" of each end of each piece. Anchor bolts shall have square plate washers 3" square x 0.229", see detail 7/S0. Note that a holdown bolt does not count as an anchor bolt, see detail 5/S0. Holdown anchor and nut shall be tightened just prior to covering the wall framing. Use 2 layers of Grade D paper between plywood shear panel and exterior lath.

Add new notes

7 .....

8 .....

9 .....

10 .....



# Corrie Putney Engineer, Inc.

10

Project: SV Fire Station

NOTE: L = SHEARWALL LENGTH SHOWN ON PLANS, L'=L- (6" TO 12"),  
USE L' IN CALCS TO BE CONSERVATIVE.

## WALL LINE

$$v = 0.7V/L' = \frac{.7(3140 + 2760)}{4 + 5.5} = 455 \text{ plf} \quad (\text{ASD})$$

$$Mot = vHL' = 455(10)(4) = 17400 \text{ ft}\cdot\text{lb}$$

$$wr = wdl = 2(15) + 10(15) = 180$$

$$Mr = (wr(L')(L')/2)(X) = 547 \text{ ft}\cdot\text{lb}$$

$$HD = (Mot - Mr)/L' = 4213 \#$$

$$P_{\text{all}} = 4213 / .7 (25 / 1.3) = 11.57 \text{ K for EPCY 40 AFTER BELOW 100 PLF}$$

$$X = .6 - .14 SDS = 0.38$$

$$\sigma_{\text{all}} = 640 \left( \frac{2(4')}{10} \right) = 5.2 \text{ plf}$$

SHEARWALL 3  
E/ 4x8 w/ 4x10 HS @ ENDS  
4x8 POST w/ HDU 5

$$v = 0.7V/L' =$$

$$Mot = vHL' =$$

$$wr = wdl =$$

$$Mr = (wr(L')(L')/2)( ) =$$

$$HD = (Mot - Mr)/L' =$$

3	10d @ 3" oc BN, EN 10d @ 12" oc FN Spec. Insp. Reqd.
---	--

$$V_u = 1860 / 2.8 = 664$$

(ASD)

SHEARWALL

Comply with note #10 for multiplying factor 0.92 on Table 4.3A, SDPWS 2021

POST w/

## WALL LINE

$$v = 0.7V/L' =$$

$$Mot = vHL' =$$

$$wr = wdl =$$

$$Mr = (wr(L')(L')/2)( ) =$$

$$HD = (Mot - Mr)/L' =$$

New nailing is 10d per plan

(ASD)

SHEARWALL

POST w/

## WALL LINE

Check (E) wall is now

$$v = 0.7V/L' = \frac{.7(3140 + 2760)}{13} = 381 \text{ plf} \quad (\text{ASD})$$

$$Mot = vHL' = 381(10)(13) = 49530$$

$$wr = wdl = 180$$

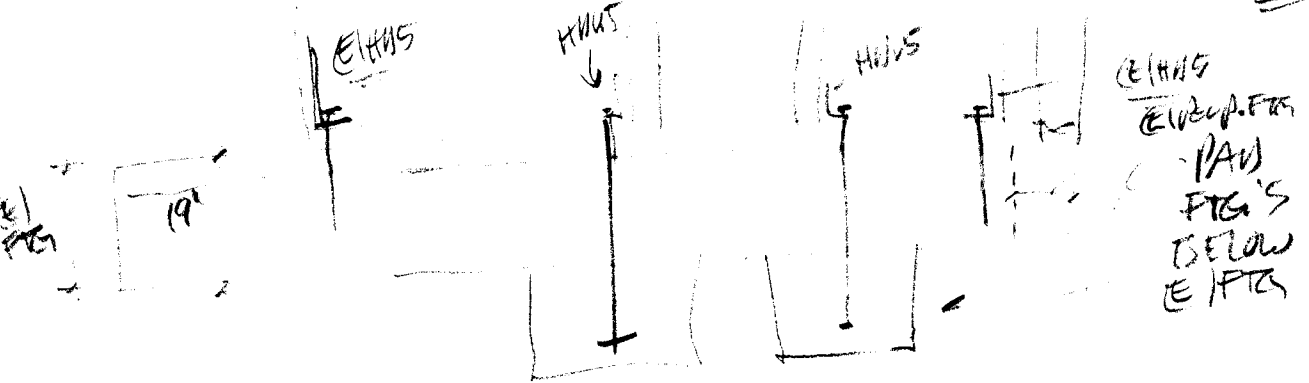
$$Mr = (wr(L')(L')/2)(.38) = 5780$$

$$HD = (Mot - Mr)/L' = 2732 \#$$

SHEARWALL

$$\sigma_{\text{all}} = 381 \text{ plf}$$

4x8 POST w/ HDU 5



----- Forwarded message -----

From: **Corrie Putney** <[engineercorrie@gmail.com](mailto:engineercorrie@gmail.com)>

Date: Fri, Sep 8, 2023 at 5:33 PM

Subject: VCFD\_FS-41

To: Lin, Kang <[Kang.Lin@ventura.org](mailto:Kang.Lin@ventura.org)>

Hello Mr. Lin,

I wanted to discuss with you the shearwall corrections that you have asked for.

A. on Sheet 10 of the calcs, you say 'New nailing is 10d per plan'. Yes, in plan I am calling out a delta 3 shearwall that has 10d at 3"oc. The shearwall calculation at the bottom of the page is just to compare what was to what is. The existing 13' shearwall had 3/8" ply struc 1 with 8d at 4"oc, this existing shearwall does not show on the plans. The calculation was just for comparison to verify that the loads to the wall line would have worked with the existing shearwall. The title of the calc at the bottom shearwall is 'wall line 2, check (E) wall as it is now'.

B. Another comment from you is to 'comply with note #10 for multiplying factor 0.92 on Table 4.3A, SDPWS 2021'. My shearwall schedule, note 1 last sentence says 'Allowable shear includes 0.92 factor for holdowns attached to inside face of end post.' So for example, per Table 4.3A for delta 3 shearwall of 1/2" ply struc 1, 10d at 3"oc, the allowable load is  $1860/2 = 662$  plf. If you multiply 662 plf by 0.92 = 610 plf allowable load for a 1/2" ply struc 1, 10d at 3" oc shearwall with the holdowns attached to the inside face of the end post. So my shearwall schedule already complies with this requirement.

C. Your comment 'add notes 7-10 to comply with SDPWS Table 4.3A and Sec 4.1.4.1'. My shearwall schedule and notes complies with Table 4.3A but the notes are not in the same order. Note 7 in Tbl 4.3A, 'galv nails shall be hot dipped...'. My foundation note 5 on sheet S1 covers hot dipped galvanized notes.

For instance note 8 in Tbl 4.3A box nails table, my note 2 in the shearwall schedule says Galvanized box nails may be substituted (10d galv box = 3" x 0.128" x 0.312" head dia.). Since I am not using 6d and 8d nails in my shearwalls, I have not included that information. Note 9 in Tbl 4.3A, 'shear capacities are applicable for carbon smooth shank nails of the specified types and sizes'. Note 2 of my shearwall schedules calls out 'Use common carbon smooth shank nails...'. Note 10 in Tbl 4.3A, has to do with the 0.92 factor for holdowns attached to the inside face of the post. I have addressed this by decreasing my allowable shear values as noted above to accommodate the 0.92 reduction.

There is no requirement in the code that says that I have to use Table 4.3A verbatim. In my opinion, Table 4.3A is for engineers not for contractors. My shearwall schedule is user friendly for contractors yet complies with the requirements of Table 4.3A SDPWS 2021.

It is my opinion that the plans, calculations and specifically my shearwall schedule comply with the Building Code and SDPWS. If you want to meet to go over this, I am happy to do so.

Thank You

Corrie Putney, PE

Corrie Putney Engineer Inc.

805-901-2078

# Ventura County Fire Protection District

## Schedule of Drawings

(Also see Table of Contents)

### ARCHITECTURAL

A-000	COVER SHEET_FS-41
A-001	GREEN BUILDING CODE NON-RESIDENTIAL
A-002	GREEN BUILDING CODE NON-RESIDENTIAL
A-201	DORM FLOOR PLAN & DEMO PLAN FS-41
A-202	DORM ELECTRICAL PLAN & PLUMBING PLAN FS-41
A-203	DORM REFLECTED CEILING PLAN FS-41
A-204	RESTROOM 120 RENOVATION FOR ACCESSIBILITY
A-205	RESTROOM ELECTRICAL PLAN & PLUMBING PLAN FS-41
A-206	ACCESSIBLE RESTROOM DETAILS
A-207	INTERIOR ELEVATIONS
A-801	DETAILS FS-41
A-SPEC 1	SPECIFICATIONS FS-41
A-SPEC 2	SPECIFICATIONS FS-41
A-SPEC 3	PRODUCTS
A-SPEC 4	PRODUCTS

### STRUCTURAL

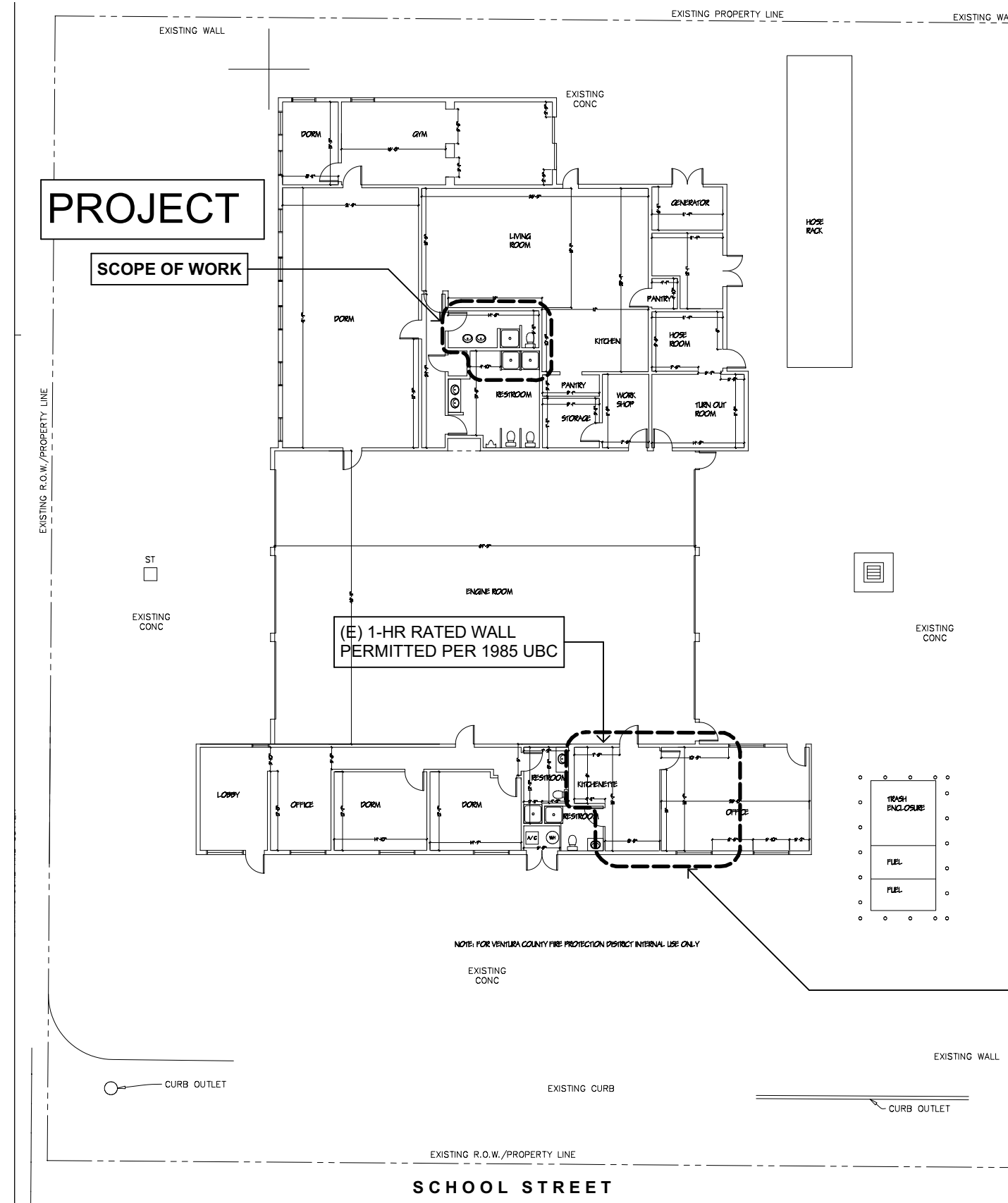
S0	STRUCTURAL INFORMATION
S1	ROOF FRAMING PLAN & FOUNDATION PLAN
S2	STRUCTURAL DETAILS



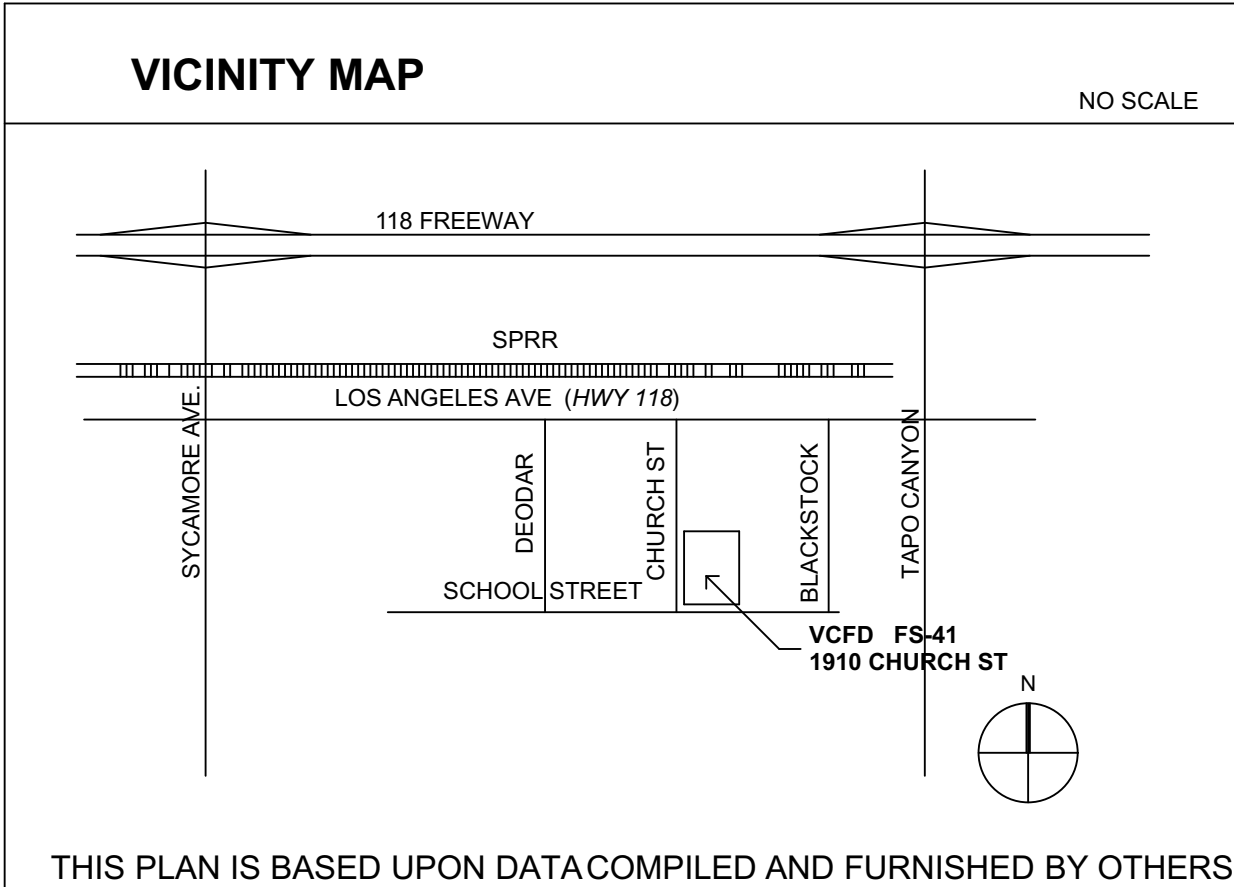
GENERAL PROJECT NOTES & REQUIREMENTS	
1.	THE DRAWINGS ARE INTENDED ONLY TO CONVEY DESIGN INTENT. THE PLANS AND SPECIFICATIONS SHALL NOT BE CONSIDERED AS EITHER A LIST OF PARTS OR ASSEMBLY INSTRUCTIONS. THE SPECIFICATIONS ARE INCLUDED WITH THESE DRAWINGS AND DEFINE ADDITIONAL WORK TO BE ACCOMPLISHED. THE TECHNICAL SPECIFICATIONS ARE INCLUDED IN THE BID DOCUMENTS BY REFERENCE.
2.	THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ALL OF THE CONTRACT DOCUMENTS TO EXAMINE THE PROJECT SITE, AND TO BE FAMILIAR WITH THE TOTAL SCOPE OF THE WORK, AS WELL AS THE INTENT OF THE CONTRACT DOCUMENTS. IT IS INCUMBENT UPON THE CONTRACTOR TO NOTIFY THE ARCHITECT IMMEDIATELY UPON THE DISCOVERY OF ANY DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS.
3.	DURING THE BIDDING PROCESS THE CONTRACTOR SHALL OBTAIN THE PROPER WRITTEN CLARIFICATION OF DISCREPANCIES, CONFLICTS AND/OR UNCLEAR ITEMS PRIOR TO THE SUBMISSION OF THE BID.
4.	DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT PROCEED WITH THE INSTALLATIONS OR APPLICATIONS OF ANY CONSTRUCTION ITEM(S) THAT MAY BE AFFECTED BY DISCREPANCIES AND/OR CONFLICTS UNTIL SUCH ISSUES ARE RESOLVED.
5.	IT SHALL BE UNDERSTOOD THAT ALL CONTRACTORS AND THEIR PERSONNEL ARE PROPERLY TRAINED AND EXPERIENCED TO PERFORM THE WORK, AND TO OTHERWISE CARRY OUT THE INTENT OF THE WORK INCORPORATED INTO THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS.
6.	THE CONTRACT DOCUMENTS CONSIST OF THE COMPLETE PLAN DRAWINGS.
7.	THE INFORMATION CONTAINED IN THE WRITTEN SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THE DRAWINGS, AND FURTHER, LARGE SCALE DETAIL DRAWINGS SHALL TAKE PRECEDENCE OVER THE SMALLER SCALE DRAWINGS.
8.	WHERE ANY SPECIFIED MATERIAL OR PROCESS IS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS, IT IS FOR THE PURPOSE OF MAKING CLEAR THE INTENT REQUIRED TO ACCOMPLISH THE SCOPE OF THE PROJECT. THE CONTRACTOR MAY OFFER A SUITABLE MATERIAL OR PROCESS TOGETHER WITH ALL SUPPORTING DOCUMENTATION TO VALIDATE THE EQUIVALENT NATURE TO THE SATISFACTION OF THE ARCHITECT, THE CONSULTING ENGINEERS, AND THE OWNER.
9.	EACH CONTRACTOR SHALL BE RESPONSIBLE FOR TOTAL COORDINATION OF THEIR OWN WORK AND WITH THE WORK OF ALL OTHER TRADES AFFECTED. THE CONTRACTOR SHALL PERSONALLY SUPERVISE AND DIRECT THE PROJECT. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL METHODS OF CONSTRUCTION, TECHNIQUES, SEQUENCES AND PROCEDURES IN ORDER TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY AND PERFORMANCE OF THE WORK, AND FOR FULL COMPLIANCE WITH O.S.H.A., THE U.S. DEPT. OF LABOR, THE STATE OF CALIFORNIA, AND ALL OTHER SAFETY REGULATIONS.
10.	ALL THE WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE (CBC), AND WITH ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS.
11.	ONLY THE APPROVED DRAWINGS THAT STATE, "ISSUED FOR CONSTRUCTION," ON THE COVER SHEET ARE TO BE USED FOR CONSTRUCTION ON THIS PROJECT. CONTRACTORS USING OTHER THAN THE APPROVED DRAWINGS SHALL BE SOLELY RESPONSIBLE FOR THE CORRECTNESS OF THEIR WORK.
12.	ALL DIMENSIONS SHOWN ON THE PLAN VIEWS OF THE DRAWINGS ARE TO THE STRUCTURAL FACE OF WALLS OR TO A CENTERLINE OF WALLS AND OTHER FEATURES, UNLESS NOTED OTHERWISE (U.N.O.). DIMENSIONS THAT MAY BE SHOWN TO ANY FINISH SURFACES SHALL BE NOTED AS SUCH.
13.	DO NOT SCALE THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS IN THE FIELD, AND IMMEDIATELY REPORT ANY DISCREPANCIES OR VARIATIONS TO THE ARCHITECT.
14.	THE CONTRACTOR SHALL REPAIR AND REPLACE ALL PROPERTY THAT MAY BE DAMAGED BY ANY WORK UNDER THIS CONTRACT TO THE SATISFACTION OF THE ARCHITECT AND THE OWNER. ALL PIPING, CONDUITS, LINES, ETC. THAT MAY BE ENCOUNTERED SHALL BE ADEQUATELY SUPPORTED AND PROTECTED UNTIL PERMANENT SUPPORT AND PROTECTION IS APPROVED, OR UNTIL REMOVAL IS AUTHORIZED.
15.	THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL AND MECHANICAL LOADS THAT ARE SCHEDULED TO BE GENERATED BY THE OWNER'S EQUIPMENT AS SHOWN ON THE DRAWINGS AND/OR SPECIFIED PRIOR TO ORDERING THE EQUIPMENT. INFORMATION REGARDING ITEMS THAT MAY AFFECT THE ARCHITECTURAL NATURE OR STRUCTURE OF THE PROJECT OR EXISTING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
16.	ALL FIRE RESISTIVE CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF C.B.C., CHAPTER 7, AND SHALL BE CONSTRUCTED OF LISTED WALL, FLOOR AND CEILING ASSEMBLIES PER SECTION 716 AND TABLES 720.1(1), 720.1(2), 720.1(3), AND ADDITIONAL APPROVED ASSEMBLIES LISTED BY THE "GYPSUM ASSOCIATION DESIGN MANUAL," LATEST EDITION. THESE PROVISIONS INCLUDE LIMITATIONS OF SIZE, TYPE AND INDIVIDUAL FIRE RATING OF THE PENETRATING ITEM OR ASSEMBLY. NOTE THAT ADDITIONAL THROUGH-WALL AND MEMBRANE PENETRATIONS SHALL BE PROVIDED WITH "F" AND "TF" FIRE BLOCKING AS DESCRIBED CHAPTER 7 FOR THE METHOD OF PENETRATION BEING USED.
17.	
18.	WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATION IN C.B.C., CHAPTER 8, TABLE 803.5.
19.	ALL STRUCTURAL HOLD-DOWNS SHALL BE SET IN PLACE BY THE USE OF A TEMPLATE PRIOR TO ANY FOUNDATION INSPECTION. SEE THE STRUCTURAL SHEAR PANEL SCHEDULE FOR THE SIZES AND SPACING OF ANCHOR BOLTS.
20.	THE ARCHITECT OR ENGINEER SHALL PERFORM THE REQUIRED ON-SITE OBSERVATIONS FOR COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
21.	
22.	

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INTERIOR RENOVATION			
VENTURA COUNTY FIRE DEPT. FS - 41			
1910 Church Street Simi Valley, California 93065			
APN: 642 - 0 - 022 - 070			
PROJECT ANALYSIS	EXISTING CONDITIONS	TITLE-24 NOTES	SCOPE OF THE WORK
<p><b>PROJECT ANALYSIS:</b></p> <p>APN: 642-0-022-070</p> <p>ZONING: .</p> <p>LEGAL LOT: .</p> <p>LOT AREA: 37,006 Sq Ft (0.84 ac)</p> <p>LOT COVERAGE PREVIOUS: .</p> <p>LOT COVERAGE PROPOSED: .</p> <p>PAVING/HARDSCAPE: .</p> <p>LANDSCAPING: .</p> <p><b>AREA CALCULATIONS:</b></p> <p>DORM AREA: 378 Sq Ft</p> <p>H.C. RESTROOM: 160 Sq Ft</p> <p>TOTAL RENOVATION AREAS: 538 Sq Ft</p>	<p>1. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR NOT IMPEDING AND WHILE MAINTAINING FIRE DEPARTMENT OPERATIONS AT ALL TIMES.</p> <p>2. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR PROTECTING IN PLACE ALL ROOFTOP INSTALLATIONS.</p>	<p>1. CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE TITLE-24 CALIFORNIA ADMINISTRATIVE CODE.</p> <p>2. NOTE THE TRUE NORTH ANGLE RELATIVE TO THE "REFERENCE NORTH" SHOWN ON THE PLANS ± 04.</p> <p>3. THE CONTRACTOR SHALL PROVIDE TO THE OWNER COMPLETE INSTRUCTIONS AND INFORMATION REGARDING THE EFFICIENT USE OF ELECTRICAL APPLIANCES, LIGHTING AND MECHANICAL SYSTEMS AND COMPONENTS.</p>	<p><b>SCOPE OF WORK:</b></p> <p><b>DORMITORY:</b></p> <p>1. RECONFIGURE FRAMED STUD PARTITIONS FOR A (N) DORM SPACE</p> <p>2. ENLARGE THE (E) KITCHEN AREA AND REDESIGN WITH (N) APPLIANCES</p> <p>3. REVISE AN (E) INTERIOR SHEAR WALL, ADD A 3'-0" x 6'-8" DOOR</p> <p>4. FRAME-IN ONE (E) WINDOW AT THE CHANGING AREA WITH LOCKERS</p> <p>5. DETAIL (N) 32" x 24" x 68" LOCKERS</p> <p>6. READJUST THE (E) T-BAR CEILING</p> <p>7. REVISE THE ELECTRICAL SWITCHES AND OUTLETS</p> <p>8. REVISE THE COMMUNICATION DEVICES</p> <p>9. REVISE THE FINISH FLOORING</p> <p><b>RESTROOM 120</b></p> <p>1. RECONFIGURE 2x6 STUD WALL PLUMBING CHASE FOR ACCESSIBILITY</p> <p>2. REPLACE ADJOINING RESTROOM 113 SHOWERS AND SINKS</p> <p>3. (N) 2'-10" x 6'-8" DOOR TO RESTROOM</p> <p>4. MOVE (E) 2'-0" x 6'-8" DOOR TO CLOSET</p> <p>5. REPLACE (E) 2x4 CLG JSTS "J" (N) 2x6 CLG JSTS</p> <p>6. INSTALL (N) PLUMBING FIXTURES (LOW FLOW)</p>
PROJECT NOTES		SAFETY NOTES	FIRE DPARTMENT NOTES
<p>1. THE NEW CONSTRUCTION SHALL NOT DISTURB LESS THAN 50 CU. YARDS. THE EXISTING GRADES SHALL REMAIN. THE FINAL FINISH GRADES SHALL SLOPE AWAY 5% DOWNWARD FROM THE FOUNDATION FOR AT LEAST A 10-FEET HORIZONTAL DISTANCE, UNLESS U.N.O.</p> <p>2. THE CONSTRUCTION SHALL NOT RESTRICT A 5-FOOT CLEAR UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITY (POWER POLES, PULL BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.), OR TO THE LOCATIONS OF ANY HOOK-UPS.</p> <p>3. THE CONSTRUCTION SHALL NOT BE WITHIN 10-FEET OF ANY POWER LINES, WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSE.</p>		<p>1. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE SAFETY DURING THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO JUST NORMAL WORKING HOURS.</p> <p>2. DURING CONSTRUCTION HAZARDOUS MATERIALS ARE NOT TO BE STORED IN THE BUILDING, NOR ARE THEY TO BE USED IN CONSTRUCTION IN QUANTITIES THAT EXCEED THOSE SPECIFIED IN C.B.C., CHAPTER 3, TABLE 3-D, OR IN OTHER APPLICABLE SECTIONS.</p>	
CODE ANALYSIS		APPLICABLE CODE AUTHORITY	
<p><b>FIRE STATION:</b></p> <p>OCCUPANCIES: B (OFFICE) S-1 (ENGINE ROOM) R-2 (DORMITORY) TABLE 506.4 V - B</p> <p>CONSTRUCTION: 538 Sq Ft</p> <p>HEIGHT: ONE STORY</p> <p>SPRINKLERS: NO</p> <p>FIRE SEVERITY: MODERATE FHSZ</p>		<p>ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES:</p> <p>2022 CBC - CALIFORNIA BUILDING CODE</p> <p>2022 CRC - CALIFORNIA RESIDENTIAL CODE</p> <p>2022 CEC - CALIFORNIA ELECTRICAL CODE</p> <p>2022 CPC - CALIFORNIA PLUMBING CODE</p> <p>2022 CMC - CALIFORNIA MECHANICAL CODE</p> <p>2022 CEIC - CALIFORNIA ENERGY CODE</p> <p>2022 CFC - CALIFORNIA FIRE CODE</p> <p>2022 CGBSC - CALIFORNIA GREEN BUILDING STANDARDS CODE</p> <p>2022 CALIFORNIA REFERENCED STANDARDS CODE</p> <p>2022 NFPA - NATIONAL FIRE PROTECTION ASSOCIATION CODE</p> <p>2022 CBC - CHAPTER 7A - WILDLIFE EXPOSURE CODE</p> <p>2022 COUNTY OF VENTURA HIGH FIRE REGULATIONS</p>	



2016\_Floor Plan FS-41  
SCALE: 1:3



THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

INDEX OF DRAWINGS	
A-000 COVER SHEET	
A-001 CAL-GREEN NON-RESIDENTIAL	
A-002 CAL GREEN NON-RESIDENTIAL	
A-201 DORM FLOOR PLAN & DEMO PLAN	
A-202 DORM ELECTRICAL PLAN & PLUMBING PLAN	
A-203 DORM REFLECTED CEILING PLAN	
A-204 RESTROOM FLOOR PLANS: 120 & 113	
A-205 RESTROOM ELECTRICAL & PLUMBING PLANS	
A-206 ACCESSIBLE RESTROOM TYPICAL DETAILS	
A-207 RESTROOM INTERIOR ELEVATIONS	
A-801 DETAILS: SHEAR WALL / KITCHEN / LOCKERS	
A-SPEC 1 SPECIFICATIONS	
A-SPEC 2 SPECIFICATIONS	
A-SPEC 3 PRODUCTS	
A-SPEC 4 PRODUCTS	
S-0 STRUCTURAL COVER SHEET	
S-1 STRUCTURAL PLANS	
S-2 STRUCTURAL DETAILS	
ROY E COLBERT	
ARCHITECTURE PLANNING DESIGN	
2590 EAST MAIN STREET SUITE 100 VENTURA, CA 93003	
805 / 650-9590 PH	
rcolb@sbglobal.net	
CALIFORNIA C12050 N.C.A.R.B.	
www.roycolbertarchitect.com	
This project has been designed by me, or under my direct supervision.	
This set of plans and specifications MUST be kept on the job at all times and it is unlawful to make any changes or alterations on same without written permission from the Building and Safety Division, County of Ventura. The stamping of this plan and specifications SHALL NOT be held to permit or to be an approval of the violation of any provisions of any County Ordinance or State Law. K-LIN 092020223 Building and Safety Division	
PROJECT INTERIOR RENOVATION Fire Station 41 1910 Church Street Simi Valley, CA 93065	
OWNER Ventura County Fire Dept. 165 Durley Avenue Camarillo, CA 93010	
PROJECT DIRECTORY	
SOILS ENGINEER / SEPTIC SYSTEM _NOT USED	
CIVIL ENGINEER _NOT USED	
STRUCTURAL ENGINEER CORRIE PUTNEY, P.E. engineercorrie@gmail.com 805 / 901-2078	
ELECTRICAL ENGINEER _NOT USED	
MECHANICAL ENGINEER _NOT USED	
LANDSCAPE ARCHITECT: _NOT USED	
WATER SYSTEM / FIRE PROTECTION SYSTEM _NOT USED	
COVER SHEET_FS-41	
SHEET NAME	
DATE	
AS SHOWN	
SCALE	
R 21 - 011	
PROJECT	
A-000	
SHEET NUMBER OF 18 SHEETS	



Division 5.1 – PLANNING AND DESIGN

SECTION 5.101  
GENERAL

**5.101.1 Scope.** The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102  
DEFINITIONS

**5.102.1 Definitions.** The following terms are defined in Chapter 2.  
**CUTOFF LUMINAIRES.**  
**LOW-EMITTING AND FUEL-EFFICIENT VEHICLES.**  
**NEIGHBORHOOD ELECTRIC VEHICLE (NEV).**  
**TENANT-OCCUPANTS.**  
**VANPOOL VEHICLE.**  
**ZEV.**

SECTION 5.103  
SITE SELECTION

SECTION 5.104  
SITE PRESERVATION

SECTION 5.105  
DECONSTRUCTION AND REUSE  
OF EXISTING STRUCTURES

SECTION 5.106  
SITE DEVELOPMENT

**5.106.1 Stormwater pollution prevention for projects that disturb less than one acre of land.** Newly constructed projects and additions which disturb less than one acre of land and are not part of a larger common plan of development or sale shall prevent the pollution of stormwater runoff from the construction activities through one or more of the following measures:

**5.106.1.1 Local ordinance.** Comply with a locally enacted stormwater management and/or erosion control ordinance.

**5.106.1.2 Best management practices (BMP)'s.** Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP's.

1. Soil loss BMP's that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
  - a. Scheduling construction activity during dry weather, when possible.
  - b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
  - c. Drainage swales or lined ditches to control stormwater flow.
  - d. Mulching or hydroseeding to stabilize disturbed soils.
  - e. Erosion control to protect slopes.
  - f. Protection of storm drain inlets (gravel bags or catch basin inserts).
  - g. Perimeter sediment control (perimeter silt fences, fiber rolls).
  - h. Sediment trap or sediment basin to retain sediment on site.
  - i. Stabilized construction exits.
  - j. Wind erosion control.
  - k. Other soil loss BMP's acceptable to the enforcing agency.
2. Good housekeeping BMP's to manage construction equipment, materials, non-stormwater discharges, and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
  - a. Dewatering activities.
  - b. Material handling and waste management.
  - c. Building materials stockpile management.
  - d. Management of washout areas (concrete, paints, stucco, etc.).
  - e. Control of vehicle/equipment fueling to contractor's staging area.
  - f. Vehicle and equipment cleaning performed off site.
  - g. Spill prevention and control.
  - h. Other housekeeping BMP's acceptable to the enforcing agency.

**5.106.2 Stormwater pollution prevention for projects that disturb one or more acres of land.** Comply with all locally enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development or sale.

**Note:** Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development or sale must comply with the postconstruction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (pre-project hydrology) to match the preconstruction runoff (post-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conservation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: [www.waterboards.ca.gov/constructionstormwater](http://www.waterboards.ca.gov/constructionstormwater). Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

**5.106.4 Bicycle parking.** For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2.

**5.106.4.1 Bicycle parking. [BSC-CG]** Comply with Sections 5.106.4.1.1 and 5.106.4.1.2, or meet the applicable local ordinance, whichever is stricter.

**5.106.4.1.1 Short-term bicycle parking.** If the new project or an addition or alteration is anticipated to generate visitor traffic, provide, permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.

**Exception:** Additions or alterations which add nine or less visitor vehicular parking spaces.

**5.106.4.1.2 Long-term bicycle parking.** For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

**5.106.4.1.3.** For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

**5.106.4.1.4.** For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

**5.106.4.1.5.** Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;

2. Lockable bicycle rooms with permanently anchored racks; or

3. Lockable, permanently anchored bicycle lockers.

**Note:** Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

**5.106.4.2 Bicycle parking. [DSA-SS]** For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2.

**5.106.4.2.1 Student bicycle parking.** Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.

**5.106.4.2.2 Staff bicycle parking.** Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;

2. Lockable bicycle rooms with permanently anchored racks; or

3. Lockable, permanently anchored bicycle lockers.

**5.106.5.2 Designated parking for clean air vehicles.** In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2	
TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201 and over	At least 5 percent of total.

**5.106.5.2.1 Parking stall marking.** Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle:

CLEAN AIR/ VANPOOL/VEH
---------------------------

**Note:** Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

**5.106.5.3 Electric (EV) charging. [N]** Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and the *California Fire Code*.

**5.106.5.3.1 Single charging space requirements. [N]** When only a single charging space is required per Table 5.106.5.3.3, a roadway is required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.

2. A listed roadway capable of accommodating a 208/240-volt-dedicated branch circuit.

3. The roadway shall not be less than trade size 1."

4. The roadway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into a listed suitable cabinet(s), box(es), enclosure(s) or equivalent.

5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

**5.106.5.3.2 Multiple charging space requirements. [N]** When multiple charging spaces are required per Table 5.106.5.3.3, a roadway is required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.

2. The roadway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into a listed suitable cabinet(s), box(es), enclosure(s) or equivalent.

3. Plan design shall be based upon 40-ampere minimum branch circuits.

4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated ampereage.

5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

**5.106.5.3.3 EV charging space calculation. [N]** Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

**Exceptions:** On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.

2. The roadway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into a listed suitable cabinet(s), box(es), enclosure(s) or equivalent.

3. Plan design shall be based upon 40-ampere minimum branch circuits.

4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated ampereage.

5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

**5.106.5.3.3 EV charging space calculation. [N]** Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

**Exceptions:** On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.

2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, design, and construction of the installation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5.106.5.3.3	
TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CHARGING SPACES
0-9	0
10-25	1
26-50	2
51-75	4
76-100	5
101-150	7
151-200	10
201 and over	6 percent of total <sup>1</sup>

1. Calculation for spaces shall be rounded up to the nearest whole number.

**5.106.5.3.4 [N] Identification.** The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

**5.106.5.3.5 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.1 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.2 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

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**5.106.5.3.5.4 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.5 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

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**5.106.5.3.5.14 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

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**5.106.5.3.5.48 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.49 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.50 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.51 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.52 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.53 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.54 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.55 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.56 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.57 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.58 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.59 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.60 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.61 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.62 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.63 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.64 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.65 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.66 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.67 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.5.3.5.68 [N] Future charging spaces.** Future charging spaces, qualify designated parking described in Section 5.106.5.2 Designated parking for clean air vehicles.

**5.106.12 Shade trees. [DSA-SS]** Shade trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

**5.106.12.1 Surface parking areas.** Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

**Exceptions:** The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table AS.106.11.2.2 in Appendix A5, are not included in the total area calculation.

**5.106.12.2 Landscape areas.** Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the total area calculation.

**Exception:** Playfields for organized sport activity are not included in the total area calculation.



Exceptions:

- Unconditioned warehouses of any size.
- Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
- Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
- Open parking garages of any size, or open parking garage areas, of any size, within a structure.

**Note:** For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and/or air conditioning.

Informational Notes:

- IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 does not certify individuals to conduct functional performance tests or to adjust and balance systems.

- Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

**5.410.2.1 Owner's or Owner representative's Project Requirements (OPR).** [N] The expectations and requirements of the building appropriate to its phase of the building project. The Basis of Design document shall cover the following systems:

- Environmental and sustainability goals.
- Building sustainable goals.
- Indoor environmental quality requirements.
- Project program, including facility functions and hours of operation, and need for after hours operation.
- Equipment and systems expectations.
- Building occupant and operation and maintenance (O&M) personnel expectations.

**5.410.2.2 Basis of Design (BOD).** [N] A written explanation of how the design of the building systems meet the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

- Renewable energy systems.
- Landscape irrigation systems.
- Water reuse systems.

**5.410.2.3 Commissioning plan.** [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:

- General project information.
- Commissioning goals.
- Systems to be commissioned. Plans to test systems and components shall include:
  - An explanation of the original design intent.
  - Equipment and systems to be tested, including the extent of tests.
  - Functions to be tested.
  - Conditions under which the test shall be performed.
  - Measurable criteria for acceptable performance.
- Commissioning team information.
- Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

**5.410.2.4 Functional performance testing.** [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the design intent and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

**5.410.2.5 Documentation and training.** [N] A systems manual and systems operations training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

**5.410.2.5.1 Systems manual.** [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:

- Site information, including facility description, history and current requirements.
  - Site contact information.
  - Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
  - Major systems.
  - Site equipment inventory and maintenance notes.
  - A copy of verifications required by the enforcing agency or this code.
  - Other resources and documentation, if applicable.
- 5.410.2.5.2 Systems operations training.** [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
- System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
  - Review and demonstration of servicing/preventive maintenance.
  - Review of the information in the systems manual.
  - Review of the record drawings on the system/equipment.

**5.410.2.6 Commissioning report.** [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

**5.410.4 Testing and adjusting. New buildings less than 10,000 square feet.** Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.1 (Reserved)

**Note:** For energy-related systems under the section (Section 110) of the *California Energy Code*, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to *California Energy Code* Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)(3) for additional testing requirements of specific systems.

**5.410.4.2 Systems.** Develop a written plan of procedures for testing and adjusting systems. Systems to be tested for testing and adjusting shall include, as applicable to the project:

- Renewable energy systems.
- Landscape irrigation systems.
- Water reuse systems.

**5.410.4.3 HVAC balancing.** In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, balance the system in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

**5.410.4.4 Reporting.** After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

**5.410.4.5 Operation and maintenance (O & M) manual.** Provide the building owner or representative with detailed operating and maintenance instructions and copies of guarantees/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

**5.410.4.5.1 Inspections and reports.** Include a copy of all inspection verifications and reports required by the enforcing agency.

Division 5.5 - ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

**5.501.1 Scope.** The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

**5.502.1 Definitions.** The following terms are defined in Chapter 2:

- ARTERIAL HIGHWAY.**  
**A-WEIGHTED SOUND LEVEL (dBA).**  
**1 BTU/HOUR.**  
**COMMUNITY NOISE EQUIVALENT LEVEL (CNEL).**  
**COMPOSITE WOOD PRODUCTS.**  
**DAY-NIGHT AVERAGE SOUND LEVEL (Ldn).**  
**DECIBEL (dB).**  
**ENERGY EQUIVALENT (NOISE) LEVEL (L<sub>eq</sub>).**  
**EXPRESSWAY.**  
**FREEWAY.**  
**GLOBAL WARMING POTENTIAL (GWP).**  
**GLOBAL WARMING POTENTIAL VALUE (GWP VALUE).**  
**HIGH-GWP REFRIGERANT.**

- LOW-RADIUS ELBOW.**  
**LONG-GWP REFRIGERANT.**  
**MERV.**  
**MAXIMUM INCREMENTAL REACTIVITY (MIR).**  
**PRODUCT-WEIGHTED MIR (PWMIR).**  
**PSIG.**  
**REACTIVE ORGANIC COMPOUND (ROC).**  
**SCHRADER ACCESS VALVES.**  
**SHORT RADIUS ELBOW.**  
**SUPERMARKET.**  
**VOC.**

SECTION 5.503 FIREPLACES

**5.503.1 Fireplaces.** Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the *California Energy Code*, Title 14, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

**5.503.1.1 Woodstoves.** Woodstove and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

**5.504.1 Temporary ventilation.** The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30 percent based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

**5.504.3 Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

**5.504.4 Finish material pollutant control.** Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

**5.504.4.1 Adhesives, sealants and caulks.** Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

- Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibiting on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

- Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94501.

TABLE 5.504.4.1 ADHESIVE VOC LIMIT <sup>1,2</sup>	
Less Water and Less Exempt Compounds in Grams Per Liter	
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesive not specifically listed	50

SPECIALTY APPLICATIONS	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250

SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	30
Plastic films	50
Plastic material (except wood)	50
Wood	30
Fiberglass	80

- If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed.
- For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168, <http://www.aqmd.ca.gov/D1168/CC/CUR/TMD/1168.PDF>.

TABLE 5.504.4.2 SEALANT VOC LIMIT	
Less Water and Less Exempt Compounds in Grams per Liter	
SEALANTS	CURRENT VOC LIMIT
Architectural	250
Marine deck	760
Nonpenetrating roof	350
Roadway	250
Single-ply roof membrane	450
Other	420

SEALANT PRIMERS	
Architectural	250
Nonpenetrating	250
Penetrating	775
Modified bituminous	700
Marine deck	760
Other	750

**Note:** For additional information regarding methods to measure the VOC content specified in these tables, see South Coast Air Quality Management District Rule 1168.

**5.504.4.3 Paints and coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

**5.504.4.3.1 Aerosol paints and coatings.** Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520 and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

**5.504.4.3.2 Verification.** Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

- Manufacturer's product specification
- Field verification of on-site product containers

TABLE 5.504.4.3 VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS <sup>1,2</sup>	
Grams of VOC per Liter of Coating	
Less Water and Less Exempt Compounds	
COATING CATEGORY	CURRENT LIMIT
Flat coatings	50
Nonflat coatings	100
Nonflat high gloss coatings	150

SPECIALTY COATINGS	
Aluminum roof coatings	400
Bituminous specialty coatings	400
Bituminous roof coatings	50
Bituminous roof primers	350
Board breakers	350
Concrete curing compounds	350
Concrete/masonry sealers	100
Driveway sealers	50
Dry fog coatings	150
Faux finishing coatings	350
Fire resistive coatings	350
Floor coatings	100
Form-release compounds	250
Graphic arts coatings (sign paints)	500
High temperature coatings	420
Industrial maintenance coatings	250
Low solids coatings <sup>3,4</sup>	120
Magnetic cement coatings	450
Mastic texture coatings	100
Metallic pigmented coatings	500
Multicolor coatings	250
Penetrating wood primers	420
Primers, sealers, and undercoats	100
Reactive penetrating sealers	350
Recycled coatings	250
Roof coatings	50

Rust preventative coatings	250
Shingles	
Close	730
Open	500
Specialty primers, sealers and undercoats	100
Stains	250
Stone consolidants	450
Swimming pool coatings	340
Traffic marking coatings	100
Tile and the refinish coatings	420
Waterproofing membranes	250
Wood coatings	275
Wood preservatives	350
Zinc-rich primers	340

- Grams of VOC per liter of coating, including water and including exempt compounds.
- The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.
- Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources Board.

**5.504.4.4 Carpet systems.** All carpet installed in the building interior shall meet at least one of the following testing and product requirements:

- Carpet and Rug Institute's Green Label Plus Program;
- Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or *Specification 01350*);
- NSF/ANSI 140 at the Gold level or higher;
- Scientific Certifications Systems Sustainable Choice; or
- Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database.

**5.504.4.4.1 Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.

**5.504.4.4.2 Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 5.504.4.1.

**5.504.4.5 Composite wood products.** Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120.1). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

TABLE 5.504.4.5 FORMALDEHYDE LIMITS <sup>1</sup>	
Maximum Formaldehyde Emissions in Parts per Million	
PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard <sup>2</sup>	0.13

- Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E1333. For additional information, see *California Code of Regulations*, Title 17, Sections 93120 through 93120.12.
- Thin medium density fiberboard has a maximum thickness of  $\frac{1}{8}$  inch (8 mm).

**5.504.4.5.1 Early compliance.** Reserved.

**5.504.4.5.3 Documentation.** Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- Product certifications and specifications.
- Chain of custody certifications.
- Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, *et seq.*).
- Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2209 or European EN 335 standards.
- Other methods acceptable to the enforcing agency.

**5.504.4.6 Resilient flooring systems.** For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

- Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
- Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
- Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database; or
- Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).

**5.504.4.6.1 Verification of compliance.** Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

**5.504.5.3 Filters.** In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

**Exception:** Existing mechanical equipment.

**5.504.5.3.1 Labeling.** Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

**5.504.7 Environmental tobacco smoke (ETS) control.** Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

**5.505.1 Indoor moisture control.** Buildings shall meet or exceed the provisions of *California Building Code*, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

**5.506.1 Outside air delivery.** For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code* or the applicable local code, which ever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

**5.506.2 Carbon dioxide (CO2) monitoring.** For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the *California Energy Code*, Section 120.1(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

**5.507.4 Acoustical control.** Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E90 and ASTM E413 or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E1332, and either descriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

**Exception:** Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

**Exception:** [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

**5.507.4.1 Exterior noise transmission, prescriptive method.** Wall and roof-ceiling assemblies exposed to the noise source making up the building addition/envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

- Within the 65 CNEL noise contour of an airport.
- Exceptions:**
- L<sub>eq</sub> or CNEL for military airports shall be determined by the facility Air Installation Controlable Land Use Zone (AICLUZ) plan.
  - L<sub>eq</sub> or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

- Within the 65 CNEL or L<sub>eq</sub> noise contour of a freeway or expressway, railroad, industrial source or fixed guideway source as determined by the Noise Element of the General Plan.

**5.507.4.1.1 Noise exposure where noise contours are not readily available.** Buildings exposed to a noise level of 65 dB L<sub>eq</sub>-1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

**5.507.4.2 Performance method.** For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition/envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L<sub>eq</sub>-1hr) of 50 dBA in occupied areas during any hour of operation.

**5.507.4.2.1 Site features.** Exterior features, such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

**5.507.4.2.2 Documentation of compliance.** An acoustic analysis documenting complying interior noise levels shall be prepared by personnel approved by the architect or engineer of record.

**5.507.4.3 Interior sound transmission.** Wall and floor-ceiling assemblies separating interior spaces and interior spaces and public places shall have an STC of at least 40.

**Note:** Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: [http://www.toobase.org/PDF/CasStudies/ste\\_lic\\_ratings.pdf](http://www.toobase.org/PDF/CasStudies/ste_lic_ratings.pdf).

SECTION 5.508 OUTDOOR AIR QUALITY

**5.508.1 Ozone depletion and greenhouse gas reductions.** Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

**5.508.1.1 Chlorofluorocarbons (CFCs).** Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

**5.508.1.2 Halons.** Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

**5.508.2 Supermarket refrigerant leak reduction.** New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

**Exception:** Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO<sub>2</sub>), and potentially other refrigerants.

**5.508.2.1 Refrigerant piping.** Piping compliant with the *California Mechanical Code* shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than  $\frac{1}{2}$  inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

**5.508.2.1.1 Threaded pipe.** Threaded connections are permitted at the compressor rack.

**5.508.2.1.2 Copper pipe.** Copper tubing with an OD less than  $\frac{1}{4}$  inch may be used in systems with a refrigerant charge of 5 pounds or less.

**5.508.2.1.2.1 Anchorage.** One-fourth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

**5.508.2.1.3 Flared tubing connections.** Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

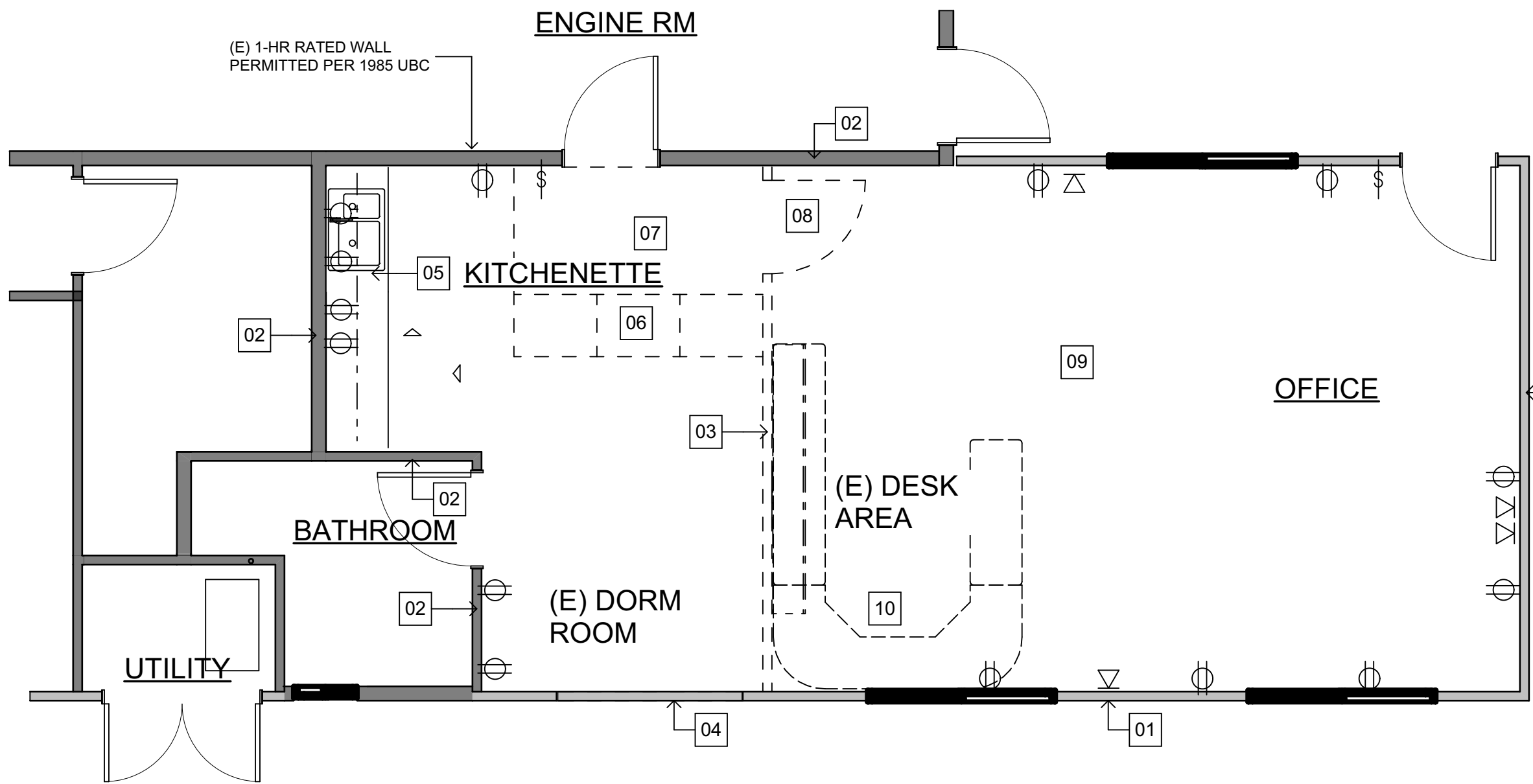
**Exception:** Single-flared tubing connections may be used with a muffling seal coated with industrial sealant suitable for use with refrigerants and right-ended in accordance with manufacturer's recommendations.

**5.508.2.1.4 Elbows.** Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

**5.508.2.2 Valves.** Valves and fittings shall comply with the <



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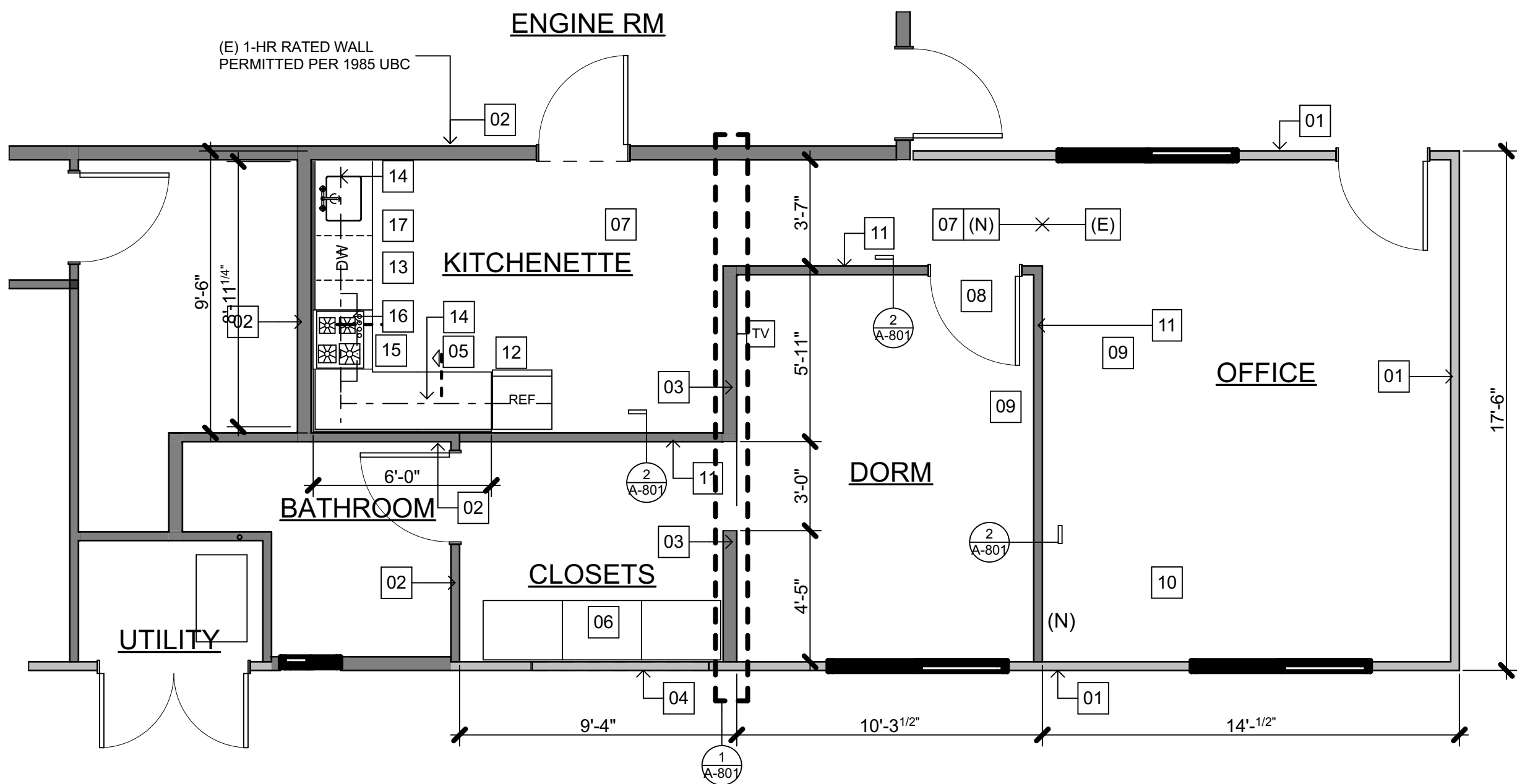
DEMO PLAN\_1st FLOOR

SCALE: 1/4" = 1'-0"

KEYNOTES

- 01 (E) EXTERIOR STUD WALL
- 02 (E) INTERIOR STUD WALL
- 03 R/R (E) INTERIOR SHEAR WALL <sup>W</sup>/ (N) SHEAR WALL
- 04 REMOVE (E) WINDOW / PREP FOR WALL PATCH
- 05 REMOVE (E) KITCHEN CAB'TS & APPLIANCE  
PROTECT REFRIGERATOR
- 06 REMOVE (E) TALL LOCKERS (3)
- 07 REMOVE (E) CARPET /PREP FOR (N) VINYL FLOORING
- 08 REMOVE & REPURPOSE (E) 3'x6" DOOR & JAMB  
@ (N) DORM ROOM
- 09 R/R (E) DROP-IN CEILING TILES W/ (N) DORM
- 10 PROTECT THE MODULAR DESK UNIT FOR RE-USE

All appliances are electric



PAINTING SCHEDULE

KITCHEN WALL @ SINK: SEMI-GLOSS ENAMEL <sup>W</sup>/ DUROCK ©  
WALLS: ORANGE PEEL FINISH EGGSHELL PAINT  
COLOR: DUNN-EDWARDS # DE 6383 "BANK VAULT"

FLOORING

KARNDEAN ART SELECT HANDCRAFT HICKORY  
6" LUXURY VINYL PLANK  
EW01 HICKORY PAPRIKA

FLOOR PLAN

SCALE: 1/4" = 1'-0"

KEYNOTES

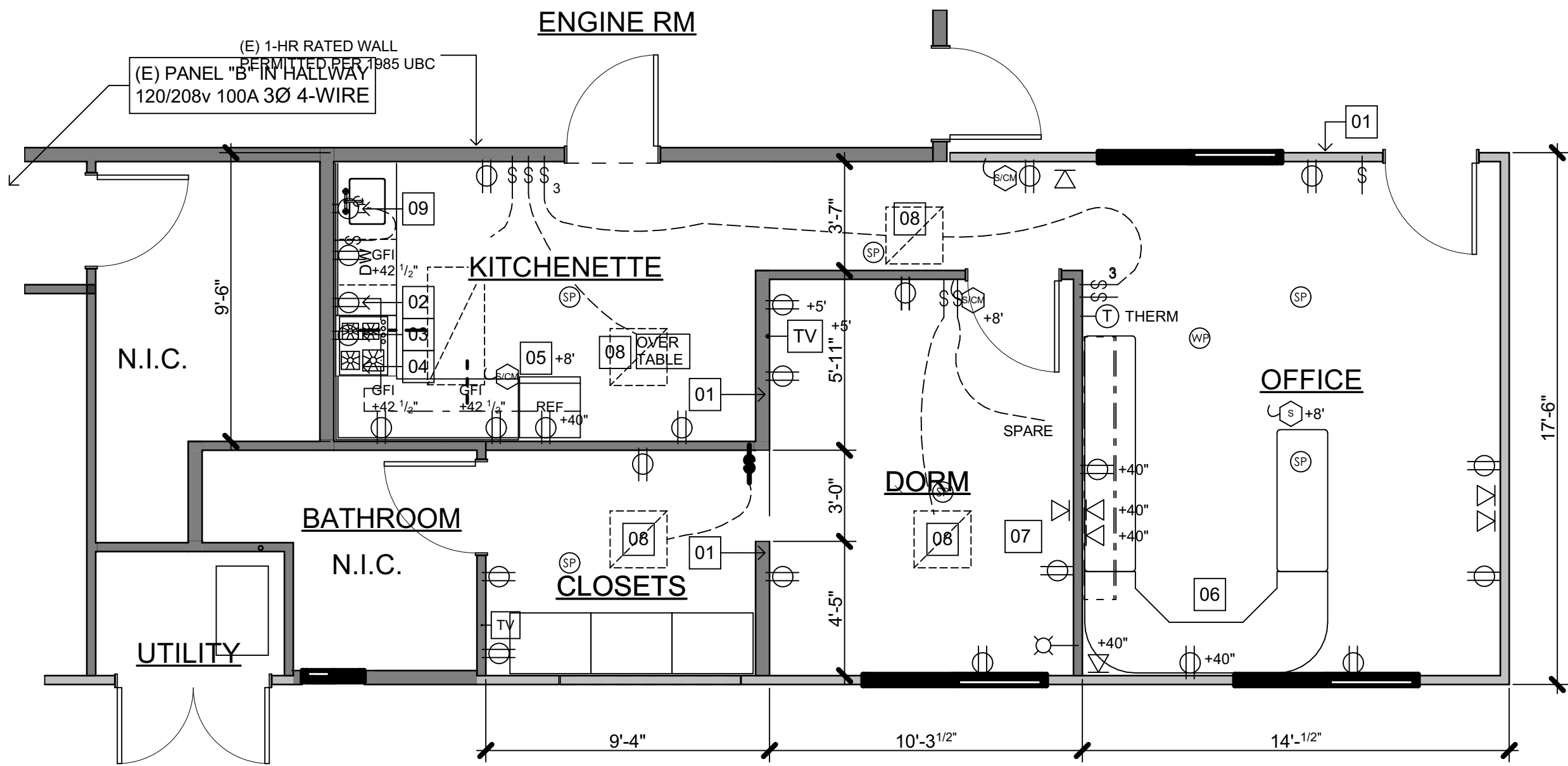
- 01 (E) EXTERIOR STUD WALL
- 02 (E) INTERIOR STUD WALL
- 03 R/R (E) INTERIOR SHEAR WALL <sup>W</sup>/ (N) 2x6 1/2" PWD  
SHEAR PNL 10d - 4'4"x12"
- 04 FRAME-IN (E) WINDOW OPENING / PATCH EXTERIOR  
STUCCO & INTERIOR TYPE-X GYP. BD.
- 05 (N) BASE CABINETS: PLAS. LAM. <sup>W</sup>/ CORIAN COUNTER  
TOP COLORS SHALL BE PER VCFD
- 06 (N) TALL LOCKERS (3)
- 07 (N) VINYL FLOORING TO ABUT (E) VINYL FLOORING
- 08 REINSTALL (E) 3'x6" DOOR & JAMB @ (N) DORM ROOM  
<sup>W</sup>/ PRIVACY LOCK
- 09 R/R (E) DROP-IN CEILING TILES <sup>W</sup>/ (N) DORM
- 10 RELOCATE U-SHAPE MODULAR DESK UNIT
- 11 (N) STUD FRAMED PARTITION
- 12 LOCATE (E) REFRIGERATOR <sup>W</sup>/ OUTLET
- 13 INSTALL (N) DISHWASHER <sup>W</sup>/ OUTLET & WATER
- 14 (N) UPPER CABINETS: PLAS. LAM.
- 15 WHIRLPOOL WCE55US4HB ELECTRIC COOKTOP
- 16 WHIRLPOOL WMH53521H MICROWAVE 1000w / EXHAUST  
HOOD: <sup>W</sup>/ DEDICATED 120v CIRCUIT
- 17 KITCHEN SINK: KRAUS KHU100 \_ FAUCET: MOEN 87233  
OPTION 2

REVISIONS	DATE	BY
	CHECK SET	18 OCT 21 REC
	CHECK SET	7 DEC 21 REC
	STRUCT REV & ACCESS. RSTRM	30 MAR 23 REC
	EDIT / CLARIFY PER CLIENT	15 JUN 23 REC
	REVISE PER V.C. B&S	23 AUG 23 REC
	REVISE PER V.C. B&S	15 SEP 23 REC
ROY E COLBERT		
ARCHITECTURE PLANNING DESIGN		
2590 EAST MAIN STREET SUITE 100 VENTURA, CA 93003		
805 / 650-9590 PH rcolb@sbcglobal.net CALIFORNIA C12050 N.C.A.R.B. www.roycolbertarchitect.com		
This project has been designed by me, or under my direct supervision.		
PROJECT INTERIOR RENOVATION Fire Station 41 1910 Church Street Simi Valley, CA 93065		
OWNER Ventura County Fire Dept. 165 Durley Avenue Camarillo, CA 93010		
PROJECT DIRECTORY		
SOILS ENGINEER / SEPTIC SYSTEM _NOT USED		
CIVIL ENGINEER _NOT USED		
STRUCTURAL ENGINEER CORRIE PUTNEY, P.E. engineercorrie@gmail.com 805 / 901.2078		
ELECTRICAL ENGINEER _NOT USED		
MECHANICAL ENGINEER _NOT USED		
LANDSCAPE ARCHITECT: _NOT USED		
WATER SYSTEM / FIRE PROTECTION SYSTEM _NOT USED		
DORM FLOOR PLAN & DEMO PLAN FS-41		
SHEET NAME		
DATE		
AS SHOWN		
SCALE		
R 21 - 011		
PROJECT		
A-201		
SHEET NUMBER OF 18 SHEETS		

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.



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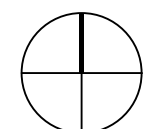


THE SAMSUNG APPLIANCES FIT THE PROGRAM AND ARE SIMPLY THE BASIS OF THE CONFIGURATION. COORDINATE FINAL SELECTION WITH V.C.F.D.

SAMSUNG 24" 4-BURNER COOKTOP: #NA24T4230FS/AA  
EXTEND (E) 3/4" GAS LINE

SAMSUNG MICROWAVE 1000w / EXHAUST HOOD:  
#ME19R7041FS/M 2/ DEDICATED 120v CIRCUIT

ELECTRICAL FLOOR PLAN  
SCALE: 1/4" = 1'-0"



KEYNOTES

- 01 (N) INTERIOR SHEAR WALL
- 02 PROVIDE 120v GFI HOOK-UP FOR DISHWASHER
- 03 PROVIDE 120v GFI HOOK-UP FOR COOKTOP
- 04 PROVIDE 120v GFI HOOK-UP FOR MICROWAVE w/ EX. FAN @ 5' +/-
- 05 RELOCATE (E) REFRIGERATOR w/ OUTLET
- 06 (N) LOCATION OF U-SHAPE DESK - VERIFY OUTLETS w/ VCFD
- 07 VERIFY LOCATION OF OUTLETS & SWITCHES w/ VCFD
- 08 (N) 2 x 2 L.E.D. LIGHT FIXTURE MOUNT IN T-BAR ASS'Y LITHONIA # 2BLT2
- 09 PROVIDE 120v GFI J-BOX FOR DISPOSER UNDER SINK w/ SWITCH @ 40" A.F.F.

ELECTRICAL SYMBOL SCHEDULE

- 110v DUPLEX RECEPTACLE @ 18" A.F.F. U.N.O. (INSTALL ARC-FAULT CIRCUIT INTERRUPTER IN ALL BEDROOMS)
- 110v DUPLEX RECEPTACLE OUTLET GROUND FAULT @ 18" A.F.F. U.N.O. (INSTALL ARC-FAULT CIRCUIT INTERRUPTER IN ALL BEDROOMS)
- 110v HALF HOT RECEPTACLE @ 18" A.F.F. U.N.O. (INSTALL ARC-FAULT CIRCUIT INTERRUPTER IN ALL BEDROOMS)
- 110v FOUR-PLEX RECEPTACLE @ 18" A.F.F. U.N.O.
- 208v/240v RECEPTACLE @ 42" A.F.F. U.N.O.
- 110v J-BOX @ 18" A.F.F. U.N.O.
- 110v J-BOX SWITCHED @ CEILING - VERIFY HEIGHT
- SWITCH @ 40" A.F.F. U.N.O.
- 3-WAY SWITCH @ 40" A.F.F. U.N.O.
- DIMMER SWITCH @ 40" A.F.F. U.N.O.
- SWITCH w/ VACANCY/OCCUPANCY SENSOR @ 40" A.F.F. U.N.O.
- RECESSED LED DOWNLIGHT @ CEILING
- RECESSED LOW VOLTAGE DOWNLIGHT FIXTURE @ CEILING 4" LED & DIMMABLE
- WALL MOUNT LED LIGHT FIXTURE
- SURFACE MOUNT LED LIGHT FIXTURE @ CEILING
- 4-FT 60 LUMEN SURFACE MOUNT LED LIGHT FIXTURE @ CEILING A.F.F.
- CEILING FAN w/ LIGHT - VARIABLE SPEED FAN SWITCH w/ SEPARATE DIMMABLE LIGHT SWITCH - SELECTED BY OWNER
- 100 AMP ELECTRIC SUB PANEL
- TELEVISION @ 5'-0" A.F.F. U.N.O.
- COMBINATION SMOKE / CARBON MONOXIDE DETECTOR HARD WIRED w/BATTERY BACKUP @ SLEEPING AREAS & HALLWAYS OUTSIDE OF ALL SLEEPING AREAS INTERCONNECT ALL SMOKE/COM DETECTORS
- THERMOSTAT PROGRAMMABLE 52" A.F.F. U.N.O.
- EXHAUST FAN @ CEILING U.N.O.
- COMM / PHONE @ 18" A.F.F. U.N.O.

ELECTRICAL NOTES

- SCOPE OF THE WORK: THE DRAWINGS AND GENERAL NOTES DESCRIBE THE DESIGN INTENT OF THE PROJECT. THE MATERIALS REQUIRED FOR THE WORK SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR FOR A COMPLETE JOB IN ALL RESPECTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED TO PERFORM AND COMPLETE THE WORK.
- THE MATERIALS AND INSTALLATION OF THE ELECTRICAL WORK SHALL COMPLY IN ALL RESPECTS WITH THE 2019 CALIFORNIA ELECTRICAL CODE, AND ALL OTHER CODES AND REGULATIONS HAVING JURISDICTION, INCLUDING AS FOLLOWS:  
2019 CALIFORNIA BUILDING CODE  
2019 CALIFORNIA RESIDENTIAL CODE  
2019 CALIFORNIA TITLE 24 ENERGY COMPLIANCE REGULATIONS AND ENERGY CODE  
SCE INSTALLATION REQUIREMENTS
- INSTALL ALL EQUIPMENT SHOWN ON THESE DRAWINGS IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE. BY THE ACT OF SUBMITTING A BID PROPOSAL AND AGREEING TO BEGIN WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH A STUDY AND EXAMINATION, AND ACCEPTS ALL CONDITIONS REGARDING THE PROJECT. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED DUE TO FAILURE TO ALLOW FOR CONDITIONS THAT MAY EXIST.
- THE CONTRACTOR SHALL AT ALL TIMES COORDINATE THIS ELECTRICAL WORK WITH THE OTHER TRADES THAT MAY REQUIRE SUCH COORDINATION FOR A COMPLETE JOB. THE CONTRACTOR AGREES TO PROVIDE ANY ELECTRICAL CONNECTIONS WHETHER SHOWN ON THE DRAWINGS OR NOT.
- THE ELECTRICAL EQUIPMENT LOCATIONS INDICATED ON THE DRAWINGS ARE CONSIDERED TO BE SHOWN DIAGRAMMATICALLY. THE EXACT LOCATION SHALL BE VERIFIED.
- UNINTERRUPTED SERVICE CONTINUITY: EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE PROJECT SITE DURING CONSTRUCTION. PROVIDE TEMPORARY POWER SERVICE AS MAY BE REQUIRED.
- THE CONTRACTOR'S PRICE/COST BID PROPOSAL SHALL BE BASED ON THE DESIGN INTENT DESCRIBED AS THE SCOPE OF THE WORK INDICATED ON THE DRAWINGS AND DESCRIBED PER THE NOTES. SUBSTITUTIONS MUST BE SUBMITTED TO THE ARCHITECT AND THE OWNER FOR REVIEW PRIOR TO THE INSTALLATION OF THE COMPONENT. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHANGES TO THE PROJECT RESULTING FROM ANY PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER TRADES AND OTHER PARTS OF THE ELECTRICAL WORK.
- ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED BY THE UNDERWRITER'S LABORATORY (UL).
- CONDUITS SHALL BE EMT, PVC, IMC RIGID OR FLEXIBLE STEEL TYPE, AND SHALL COMPLY WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CIRCUITS.
- PROVIDE 20-AMP RATED NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED FOR 120-VOLT AND/OR 240 VOLT. RECEPTACLES SHALL BE NEMA 5-20R RATED. THE OWNER SHALL CONFIRM ANY SPECIAL DECOR SWITCHES AND RECEPTACLES PRIOR TO THE START OF THE WORK.
- IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS.
- PROVIDE LED LIGHT FIXTURES WITH DRIVERS PER SCHEDULE. LED LIGHT FIXTURES SHALL BE DIMMABLE, U.N.O.
- DISTRIBUTION PANELS SHALL BE COPPER BUS SINGLE PHASE, 3-WIRE TYPE. CIRCUITING SHALL BE ARRANGED TO PROVIDE AS NEARLY AS POSSIBLE, AN EVENLY DISTRIBUTED LOAD.
- SERVICE EQUIPMENT:
  - A. SERVICE EQUIPMENT SHALL BE INSTALLED WITH A CONCRETE ENCASED #4 MINIMUM COPPER GROUND WIRE ELECTRODE (UFER) THAT IS TO BE LOCATED NEAR THE BOTTOM OF THE CONCRETE FOUNDATION FOOTING AND SHALL EXTEND HORIZONTALLY ALONG THE BOTTOM OF THE FOOTING FOR AT LEAST 20'-0". THIS GROUND WIRE SHALL BE TIED DIRECTLY TO THE REINFORCING STEEL.
  - B. SERVICE EQUIPMENT SHALL BE INSTALLED WITH A CONCRETE ENCASED #4 MINIMUM COPPER GROUND WIRE ELECTRODE (UFER) THAT IS TO BE LOCATED NEAR THE BOTTOM OF THE CONCRETE FOUNDATION FOOTING AND SHALL EXTEND HORIZONTALLY ALONG THE BOTTOM OF THE FOOTING FOR AT LEAST 20'-0". THIS GROUND WIRE SHALL BE TIED DIRECTLY TO THE REINFORCING STEEL.
  - C. SERVICE EQUIPMENT THAT IS SCHEDULED TO BE LOCATED IN AN EXTERIOR (OUTSIDE) STRUCTURAL SHEAR PANEL SHALL BE SURFACE MOUNTED. DO NOT RECESS THE SERVICE PANEL INTO A STRUCTURAL SHEAR PANEL.
  - D. SERVICE EQUIPMENT THAT SERVES TELEVISION, SATELLITE DISH, TELECOM, INTERSYSTEM BONDING TERMINAL (IBT) SHALL BE REQUIRED TO PROVIDE AT LEAST 3 SPACES, AND SHALL BE ATTACHED TO THE SERVICE EQUIPMENT ENCLOSURE PER C.E.C. 250.04.
- ELECTRICAL RECEPTACLES:
  - A. GENERAL DUPLEX RECEPTACLES ARE REQUIRED TO BE LOCATED AT WALLS THAT ARE 2'-0" LENGTH OR GREATER, NOT MORE THAN 6'-0" FROM OPENINGS, AND SPACED NOT MORE THAN 12'-0" APART, PER C.E.C. 210.02
  - B. KITCHEN COUNTER TOP CONVENIENCE DUPLEX RECEPTACLES SHALL BE SPACED SUCH THAT NO POINT ALONG THE COUNTER TOP IS GREATER THAN 2'-0" FROM A RECEPTACLE WITH A 4'-0" MAXIMUM SPACING. INDIVIDUAL COUNTER TOP AREAS THAT ARE 12" OR GREATER SHALL REQUIRE A RECEPTACLE COUNTER AREA OF 12" TO 18" AT EACH SIDE OF A SINK OR RANGE.
  - C. GENERAL DUPLEX RECEPTACLES ARE REQUIRED TO BE LOCATED AT WALLS THAT ARE 2'-0" LENGTH OR GREATER, NOT MORE THAN 6'-0" FROM OPENINGS, AND SPACED NOT MORE THAN 12'-0" APART, PER C.E.C. 210.02
  - D. GROUND FAULT CIRCUIT INTERRUPTION (GFCI) PROTECTION SHALL BE PROVIDED FOR ALL 120 VOLT 15 AMP AND 20 AMP ELECTRICAL RECEPTACLES LOCATED IN BATHROOMS, LAUNDRY ROOMS, SERVING A GARBAGE DISPOSER UNIT, SERVING A DISHWASHER, SERVING A REFRIGERATOR IF LOCATED WITHIN 5'-0" OF ANY SINK, LOCATED WITHIN 6'-0" OF ANY SINK, AT UNDER FLOOR CRAWL SPACES, AND AT OUTSIDE LOCATIONS. NOTE: SOME OF THESE RECEPTACLES WILL REQUIRE ARC FAULT CIRCUIT INTERRUPTION (AFCI) PROTECTION AS WELL.
  - E. GENERAL DUPLEX RECEPTACLES ARE REQUIRED TO BE LOCATED AT WALLS THAT ARE 2'-0" LENGTH OR GREATER, NOT MORE THAN 6'-0" FROM OPENINGS, AND SPACED NOT MORE THAN 12'-0" APART, PER C.E.C. 210.02
  - F. DUAL FUNCTION CIRCUIT BREAKERS ARE ACCEPTABLE WHERE ALLOWED BY THE C.E.C.
  - G. ALL 120 VOLT 15 AMP AND 20 AMP RECEPTACLES SHALL BE TAMPER PROOF.
  - H. KITCHEN COUNTER RECEPTACLES REQUIRE AT LEAST TWO (2) 20 AMP GFCI/AFCI SMALL APPLIANCE BRANCH CIRCUITS.
  - I. DINING ROOM AREAS REQUIRE A DEDICATED 120 VOLT 120 VOLT 20 AMP CIRCUIT BRANCH CIRCUIT, AND IT MAY BE SHARED WITH THE KITCHEN CIRCUITS.
  - J. LAUNDRY ROOMS REQUIRE AT LEAST ONE (1) DEDICATED 120 VOLT 20 AMP GFCI/AFCI BRANCH CIRCUIT.
  - K. BATHROOMS REQUIRE AT LEAST ONE (1) DEDICATED 120 VOLT 20 AMP GFCI/AFCI BRANCH CIRCUIT.
  - L. HALLWAYS THAT ARE 10'-0" LENGTH OR GREATER REQUIRE AT LEAST ONE (1) DEDICATED 120 VOLT 20 AMP GFCI/AFCI BRANCH CIRCUIT.
  - M. GENERAL DUPLEX RECEPTACLES ARE REQUIRED TO BE LOCATED AT WALLS THAT ARE 2'-0" LENGTH OR GREATER, NOT MORE THAN 6'-0" FROM OPENINGS, AND SPACED NOT MORE THAN 12'-0" APART, PER C.E.C. 210.02
  - N. ELECTRICAL OUTLET BOXES THAT ARE TO BE INSTALLED WITHIN FIRE RATED WALLS SHALL BE STEEL, SHALL NOT EXCEED 16 SQUARE INCHES IN AREA, AND SHALL NOT BE INSTALLED ANY CLOSER TOGETHER THAN ONE PER EVERY 100 SQUARE FEET OF WALL AREA.
  - O. GENERAL DUPLEX RECEPTACLES ARE REQUIRED TO BE LOCATED AT WALLS THAT ARE 2'-0" LENGTH OR GREATER, NOT MORE THAN 6'-0" FROM OPENINGS, AND SPACED NOT MORE THAN 12'-0" APART, PER C.E.C. 210.02
- LIGHTING:
  - A. ALL INSTALLED LIGHTING FIXTURES SHALL BE HIGH EFFICACY TYPE. NO INCANDESCENT TYPE LIGHTING FIXTURES ARE PERMITTED FOR INDOOR OR OUTDOOR LIGHTING. ALL HIGH EFFICACY LIGHT FIXTURES MUST BE CERTIFIED AND LABELED AS BEING IN COMPLIANCE WITH THE CALIFORNIA ENERGY REQUIREMENTS.
  - B. OCCUPANCY/VACANCY SENSORS ARE REQUIRED FOR BATHROOMS, LAUNDRY ROOMS, UTILITY ROOMS, AND HALLWAYS FOR AT LEAST ONE (1) LIGHT FIXTURE, PER C.E.C. 150.0 (k).
  - C. GENERAL DUPLEX RECEPTACLES ARE REQUIRED TO BE LOCATED AT WALLS THAT ARE 2'-0" LENGTH OR GREATER, NOT MORE THAN 6'-0" FROM OPENINGS, AND SPACED NOT MORE THAN 12'-0" APART, PER C.E.C. 210.02
  - D. BATHROOM EXHAUST FANS FOR THE SHOWER AREAS SHALL BE CONTROLLED BY A HUMIDISTAT SWITCH OR INTEGRATED HUMIDISTAT.
  - E. ELECTRICAL FIXTURES ARE NOT ALLOWED WITHIN 3'-FEET HORIZONTALLY FROM THE TOP OF A BATHTUB RIM OR SHOWER STALL.
  - F. LIGHT FIXTURES THAT ARE RECESSED IN AN INSULATED CEILING MUST BE INSULATION CONTACT, "IC" RATED, IN ORDER THAT INSULATION CAN BE PLACED OVER THEM. LIGHT FIXTURES MAY NOT CONTAIN SCREW BASED SOCKETS, MUST BE LISTED AS AIR-TIGHT TO PREVENT CONDITIONED AIR FROM ESCAPING INTO THE CEILING CAVITY OR ATTIC SPACE, AND MUST BE SEALED WITH AN APPROVED GASKET.
  - G. ANY SCREW BASED LIGHT LUMINAIRES MUST CONTAIN LAMPS LISTED AS "JAB-2016".
  - H. ANY JAB LIGHTS MUST BE CONTROLLED BY MOTION VACANCY SENSOR OR A DIMMER. (EXCEPTIONS: CLOSETS LESS THAN 70 SF. AND HALLWAYS)
- ALL SMOKE AND CARBON MONOXIDE DETECTORS SHALL BE ON 120 VOLT 20 AMP CIRCUITS WITH AN INTEGRAL BATTERY BACK-UP, AND SHALL BE INTERCONNECTED. THE SMOKE DETECTORS SHALL BE LOCATED WITHIN EACH SLEEPING ROOM ON EACH FLOOR, IN EACH CORRIDOR AND IN EACH SERVING CLOSET, AND IN BASEMENTS. THE CARBON MONOXIDE DETECTORS SHALL BE LOCATED ON EACH FLOOR. COMBINATION SMOKE DETECTOR/CARBON MONOXIDE DETECTOR DEVICES ARE PERMITTED.
- WHERE MORE THAN ONE (1) SMOKE ALARM IS REQUIRED, THESE SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL ALARMS.
- SMOKE ALARMS AND CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND SHALL BE EQUIPPED WITH A BATTERY BACK-UP FOR UNINTERRUPTED SERVICE, PER CRC R314.6; CRC R315.5.
- FIRE SPRINKLER SYSTEM: THE CONTRACTOR SHALL FIELD VERIFY, COORDINATE, PROVIDE AND INSTALL ALL ASSOCIATED ELECTRICAL COMPONENTS OF THE FIRE SPRINKLER SYSTEM AS REQUIRED BY THE APPLICABLE CODES AND THE AUTHORITY OF THE LOCAL JURISDICTION.
- GENERAL DUPLEX RECEPTACLES ARE REQUIRED TO BE LOCATED AT WALLS THAT ARE 2'-0" LENGTH OR GREATER, NOT MORE THAN 6'-0" FROM OPENINGS, AND SPACED NOT MORE THAN 12'-0" APART, PER C.E.C. 210.02

REVISIONS	DATE	BY
Δ CHECK SET	18 OCT 21	REC
Δ CHECK SET	7 DEC 21	REC
Δ STRUCT REV & ACCESS. RSTRM	30 MAR 23	REC
Δ EDIT / CLARIFY PER CLIENT	15 JUN 23	REC
Δ REVISE PER V.C. B&S	23 AUG 23	REC
Δ REVISE PER V.C. B&S	15 SEP 23	REC

ROY E COLBERT

ARCHITECTURE  
PLANNING  
DESIGN

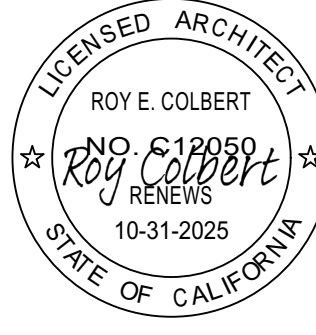
2590 EAST MAIN STREET  
SUITE 100  
VENTURA, CA 93003

805 / 650-9590 PH

rcolb@abglobal.net

CALIFORNIA C12050  
N.C.A.R.B.

www.roycolbertarchitect.com



This project has been designed by me, or under my direct supervision.



This set of plans and specifications MUST be kept on the job at all times and it is intended to make any changes or alterations on same without written permission from the Building and Safety Division, County of Ventura. The stamping of this plan and specifications SHALL NOT be held to permit or to be an approval of the violation of any provisions of any County Ordinance of State Law.

K. LIN 09/29/2023  
Building and Safety Division

PROJECT  
INTERIOR RENOVATION  
Fire Station 41  
1910 Church Street  
Simi Valley, CA 93065

OWNER  
Ventura County Fire Dept.  
165 Durley Avenue  
Camarillo, CA 93010

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM  
\_NOT USED

CIVIL ENGINEER  
\_NOT USED

STRUCTURAL ENGINEER  
CORRIE PUTNEY, P.E.  
engineercorrie@gmail.com  
805 / 901,2078

ELECTRICAL ENGINEER  
\_NOT USED

MECHANICAL ENGINEER  
\_NOT USED

LANDSCAPE ARCHITECT:  
\_NOT USED

WATER SYSTEM / FIRE PROTECTION SYSTEM  
\_NOT USED

DORM ELECTRICAL PLAN &  
PLUMBING PLAN FS-41

SHEET NAME

DATE

AS SHOWN

SCALE

R 21 - 011

PROJECT

A-202

SHEET NUMBER

OF 18 SHEETS

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

BUILDING & SAFETY: 2nd SUBMITTAL

PLUMBING KEYNOTES

- 01 (E) WALL CLEANOUT
- 02 (E) 2" C.I. LATERAL
- 03 (E) 4" C.I. LATERAL
- 04 HOOK-UP (E) SINK IN (N) BASE CABT FAUCET: 1.8 GPM @ 60 PSI
- 05 HOOK-UP (N) DISHWASHER

PLUMBING SCHEDULE

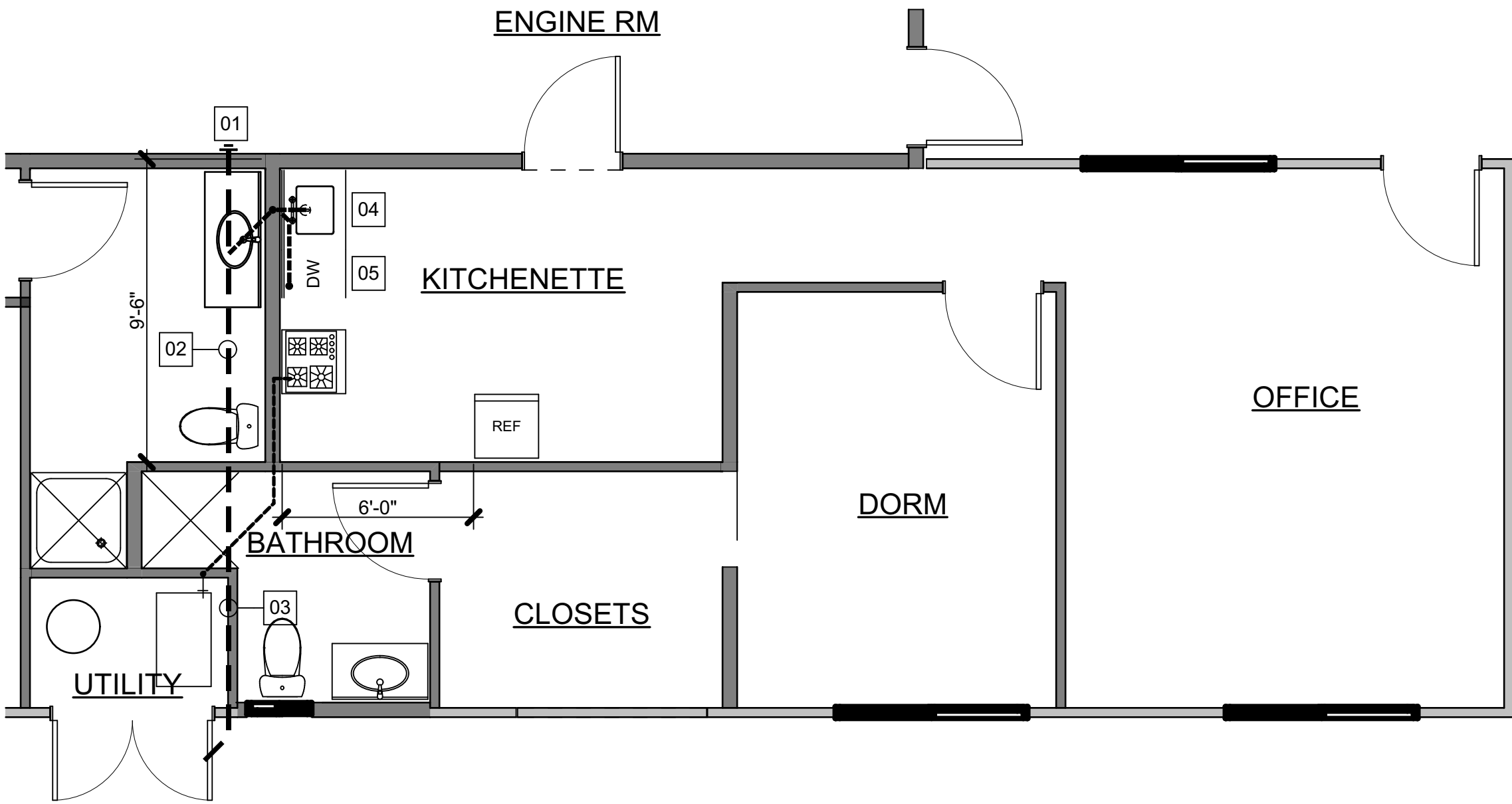
THE FOLLOWING FURNISHED BY VCFD / INSTALL BY CONTRACTOR

SINK: KRAUS KHU100-26  
FAUCET: MOEN 87233, OPTION 2  
DISPOSER: INSINKERATOR 1-HP # 6867972 "BADGER"  
REV. OSMOSIS: VERIFY SUFFICIENT SPACE w/IN SINK CABINET

DISHWASHER: FURNISH BY VCFD / INSTALL BY CONTRACTOR  
COOKTOP: WHIRLPOOL WCE55US4H ELECTRIC FURNISH BY VCFD / INSTALL BY CONTRACTOR  
MICROWAVE: WHIRLPOOL WMH53521H

PLUMBING GENERAL NOTES

- THE PIPING LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL LATERAL STUBS, OFFSETS OBSTRUCTIONS, ETC. REQUIRED IN THE FIELD.
- THE ACTUAL LOCATIONS OF PIPING, LINES, ETC. MAY VARY PROVIDED THAT COMPLETE SYSTEMS ARE SIZED AND INSTALLED IN COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.
- ALL ABOVE GROUND COLD AND HOT WATER PIPING IN THE BUILDING SHALL BE U.S. MANUFACTURED TYPE "L" HARD COPPER WITH NON-LEAD SOLDER SWEAT JOINTS.
- WHERE WATER PIPES PIERCE FINISHED SURFACES PROVIDE CHROME PLATED BRASS ESCUTCHEONS WITH INTEGRAL SET SCREW.
- ALL ABOVE GROUND NATURAL GAS PIPING SHALL BE U.S. MANUFACTURED BLACK STEEL PIPE RATED FOR INTERIOR LOCATIONS WITH THREADED FITTINGS.
- ALL DRAINS, VENTS, FITTINGS AND DRAINS SHALL BE ABS PIPING, AND SLOPED TO 1/4" PER FOOT.
- ALL VENT PIPES SHALL BE FLASHED AND COUNTER-FLASHED WHERE THESE PIPES PENETRATE THE ROOF.
- COMBINE NEARBY VENTS AND RUN TO THAT AREA OF THE ROOF THAT IS AT LEAST 10'-0" FROM ANY HVAC AIR INTAKE.



PLUMBING FLOOR PLAN  
SCALE: 1/4" = 1'-0"



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NOTES

1. CEILING ASSEMBLY SHALL HAVE HORIZONTAL RESTRAINTS
2. EACH AREA SHALL BE PROVIDED WITH CLOSURE WALL ANGLES (SEE SEISMIC SPLAY ANGLE AND WALL ANGLE BELOW).
3. PROVIDE POSITIVE BRACING WHERE CHANGES OCCUR IN T-BAR CEILING ASSEMBLY HEIGHTS.
4. SPECIAL INSPECTION IS REQUIRED FOR SUSPENDED T-BAR CEILING ASSEMBLIES AND ANCHORAGES.

MAIN SUPPORTS

12 GAUGE HANGER WIRES AT 48" ON CENTERS EACH WAY.

PERIMETER WIRES

12 GAUGE PERIMETER WIRES INSTALLED WITHIN 8" OF WALL AT EACH MAIN AND CROSS "T" TO WALL. UNLESS PERIMETER MEMBERS ARE A STRUCTURAL PART OF THE APPROVED SYSTEM, WALL ANGLES, OR CHANNELS SHALL BE CONSIDERED AS AESTHETIC CLOSURES AND THUS, WITH NO STRUCTURAL VALUE. ENDS OF MAIN RUNNERS AND CROSS MEMBERS SHALL BE TIED TOGETHER TO PREVENT THEIR SPREADING. TO FACILITATE INSTALLATION, MAIN RUNNERS AND CROSS RUNNERS SHALL BE ATTACHED TO THE PERIMETER AT TWO (2) ADJACENT WALLS ON EACH MAIN RUNNER AND CROSS MEMBER.

SUSPENDED CEILING ASSEMBLIES LOCATED ALONG MEANS OF EGRESS SERVING AN OCCUPANT LOAD OF 30 OR MORE SHALL COMPLY WITH THE FOLLOWING PROVISIONS:

SPACING OF VERTICAL HANGERS SHALL NOT EXCEED 24" ON CENTER ALONG THE ENTIRE LENGTH OF THE SUSPENDED CEILING ASSEMBLY LOCATED ALONG THE MEANS OF EGRESS OR AT THE LOBBY.

ALL LAY-IN CEILING TILES AND PANELS SHALL BE SECURED TO THE SUSPENDED CEILING ASSEMBLY WITH TWO (2) HOLD-DOWN CLIPS MINIMUM FOR EACH TILE WITHIN A 4-FOOT RADIUS OF THE EXIT LIGHTS AND EXIT SIGNS.

SEISMIC SPLAY WIRES

12 GAUGE WIRES SPLAYED IN FOUR (4) DIRECTIONS, 90 DEG. APART, PARALLEL TO CROSS AND MAIN RUNNERS, AND 45 DEG. FROM HORIZONTAL, AND 12'-0" ON CENTER EACH WAY, BEGINNING AT 6'-0" FROM EACH WALL. 12 GAUGE WIRES SECURED TO THE MAIN RUNNER WITHIN 2' OF THE CROSS RUNNER INTERSECTION SPLAYED IN FOUR DIRECTIONS. THE SPLAY WIRES SHALL BE SPREAD A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING AND ALL DUCTWORK.

COMPRESSION STRUT

A 600S125-18 METAL C-STUD COMPRESSION STRUT SHALL BE INSTALLED AT THE CENTER OF THE SEISMIC SPLAY WIRE INSTALLATION.

WALL ANGLES

A MINIMUM WALL ANGLE OF AT LEAST 2-INCH HORIZONTAL LEG SHALL BE USED AT PERIMETER WALLS AND AT INTERIOR FULL HEIGHT PARTITIONS. THE FIRST (CLOSEST ADJACENT) CEILING TILE SHALL MAINTAIN 3/4" CLEAR FROM THE FINISH WALL SURFACE.

LIGHT FIXTURE SUPPORT

12 GAUGE WIRES ATTACHED TO MAIN OR CROSS TEES SHALL BE LOCATED WITHIN 3 INCHES OF A LIGHT FIXTURE AT EACH CORNER. ATTACH ADDITIONAL 12 GAUGE SAFETY WIRES TO EACH LIGHT FIXTURE AT OPPOSITE CORNERS, AND EXTEND THE WIRES DIRECTLY TO THE STRUCTURE ABOVE. INSTALL ONE SCREW AT OPPOSITE CORNERS OF LIGHT FIXTURE TO MAIN OR CROSS TEES. ELECTRICAL WIRING SHALL NOT BE ATTACHED TO T-BAR ASSEMBLY SUPPORTING WIRES, USE SEPARATE WIRES.

BUILDING AND SAFETY NOTES REGARDING SUSPENDED CEILINGS

SUSPENDED CEILING SYSTEMS SHALL COMPLY WITH THE FOLLOWING CODES: CBC, SECTION 808; CBC, SECTION 1613; ASCE 7-10, SECTION 13.3.1.; ASCE 13.5.6; ASTM C636; ASTM C636; ASTM E580.

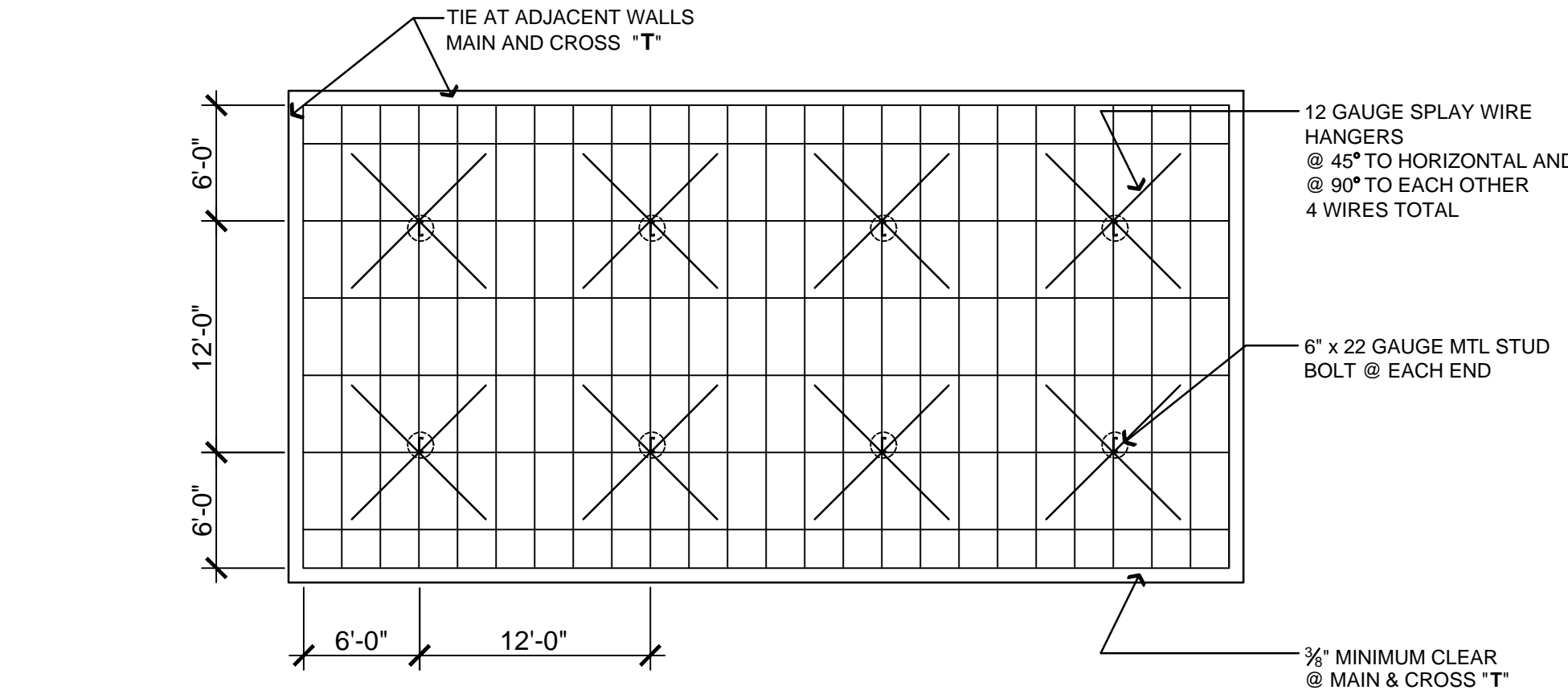
- SUSPENDED CEILINGS**  
**GENERAL:** THE SUSPENDED CEILINGS AND LIGHTING SYSTEMS SHALL NOT BE LOCATED MORE THAN 6 FEET (1828 mm) BELOW THE STRUCTURAL FLOOR OR ROOF SYSTEM ABOVE UNLESS THE ENTIRE SYSTEM IS DESIGNED BY A LICENSED ENGINEER OR ARCHITECT.
- DESIGN AND INSTALLATION REQUIREMENTS**  
**BRACING AT DISCONTINUITY:** POSITIVE BRACING TO THE STRUCTURE SHALL BE PROVIDED AT CHANGES IN THE CEILING PLANE ELEVATION OR AT DISCONTINUITIES IN THE CEILING GRID SYSTEM.  
**SUPPORT FOR APPENDAGES:** CABLE TRAYS, ELECTRICAL CONDUITS AND PIPING SHALL BE INDEPENDENTLY SUPPORTED AND INDEPENDENTLY BRACED FROM THE STRUCTURE.
- PERIMETER MEMBERS:** A MINIMUM WALL ANGLE SIZE OF AT LEAST A 2-INCH (51mm) HORIZONTAL LEG SHALL BE USED AT PERIMETER WALLS AND INTERIOR FULL HEIGHT PARTITIONS. THE FIRST CEILING TILE SHALL MAINTAIN 3/4-INCH (19mm) CLEAR FROM THE FINISH WALL SURFACE. AN EQUIVALENT ALTERNATIVE DETAIL THAT WILL PROVIDE SUFFICIENT MOVEMENT DUE TO ANTICIPATED LATERAL BUILDING DISPLACEMENT MAY BE USED IN LIEU OF THE LONG LEG ANGLE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.
- SPECIAL REQUIREMENT FOR SUSPENDED CEILING ASSEMBLIES LOCATED ALONG THE MEANS OF EGRESS:**  
**GENERAL:** CEILING SUSPENSION SYSTEMS SHALL BE CONNECTED AND BRACED WITH VERTICAL HANGERS ATTACHED DIRECTLY TO THE STRUCTURAL FLOOR OR ROOF SYSTEM ABOVE AND ALONG THE MEANS OF EGRESS SERVING AN OCCUPANT LOAD OF 30 OR MORE AND AT LOBBIES ACCESSORY TO GROUP A OCCUPANCIES. SPACING OF VERTICAL HANGERS SHALL NOT EXCEED 2- FEET (610mm) ON CENTER ALONG THE ENTIRE LENGTH OF THE SUSPENDED CEILING ASSEMBLY LOCATED ALONG THE MEANS OF EGRESS OR AT THE LOBBY.  
**ASSEMBLY DEVICE:** ALL LAY-IN PANELS SHALL BE SECURED TO THE SUSPENSION CEILING ASSEMBLY WITH TWO HOLD-DOWN CLIPS MINIMUM FOR EACH TILE WITHIN A 4-FOOT (1219 mm) RADIUS OF THE EXIT LIGHTS AND EXIT SIGNS.  
**EMERGENCY SYSTEMS:** INDEPENDENT SUPPORTS AND BRACES SHALL BE PROVIDED FOR LIGHT FIXTURES REQUIRED FOR EXIT ILLUMINATION. POWER SUPPLY FOR EXIT ILLUMINATION SHALL COMPLY WITH THE REQUIREMENTS OF CBC SECTION 1006.3.  
**SUPPORTS FOR APPENDAGE:** SEPARATE SUPPORT FROM THE STRUCTURAL FLOOR OR ROOF SYSTEM ABOVE SHALL BE PROVIDED FOR ALL APPENDAGES SUCH AS LIGHT FIXTURES, AIR DIFFUSERS, EXIT SIGNS, AND SIMILAR ELEMENTS.

INSTALL 12 GA. WIRES TO SIDE OF DIMENSION LUMBER JOISTS OR RAFTERS WITH 1 1/4" DIA. x 1 1/4" LENGTH EYE SCREW WITH FULL THREAD EMBEDMENT. DO NOT INSTALL EYE SCREW INTO SIDES OF LAMINATED (GLU-LAM, MICRO-LAM, ETC.) JOISTS OR RAFTERS, INSTALL AT BOTTOM WITH FULL EMBEDMENT.

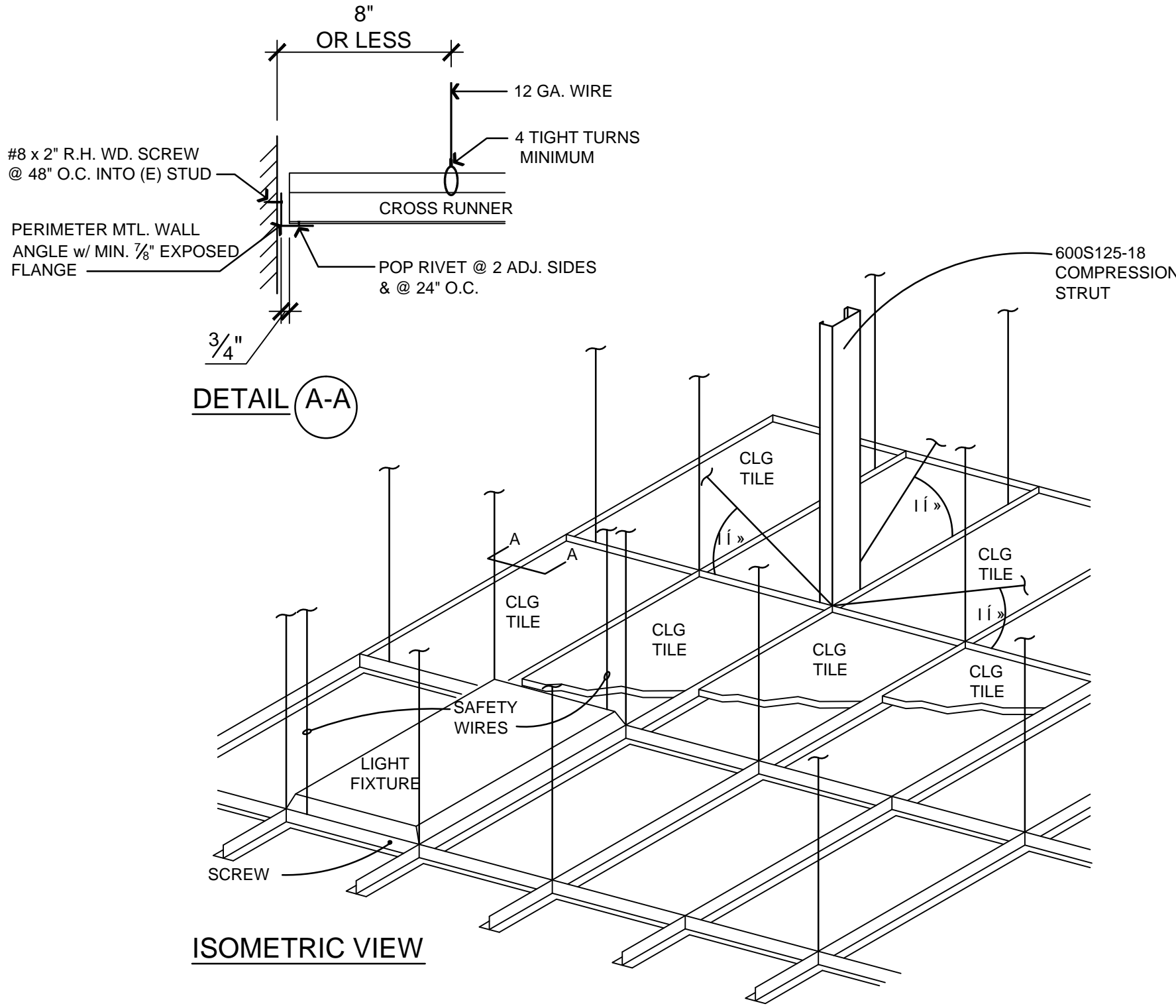
CEILING TILES SHALL BE 5/8" MINIMUM THICKNESS MINERAL TILES WITH A FLAME SPREAD RATING OF 25 OR LESS. PROVIDE U.L. LABEL CERTIFICATION.

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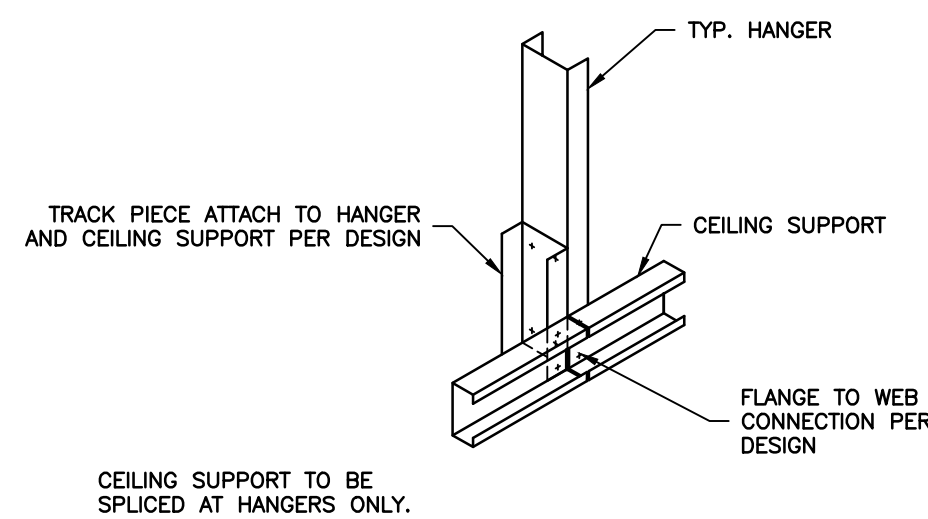


PLAN VIEW

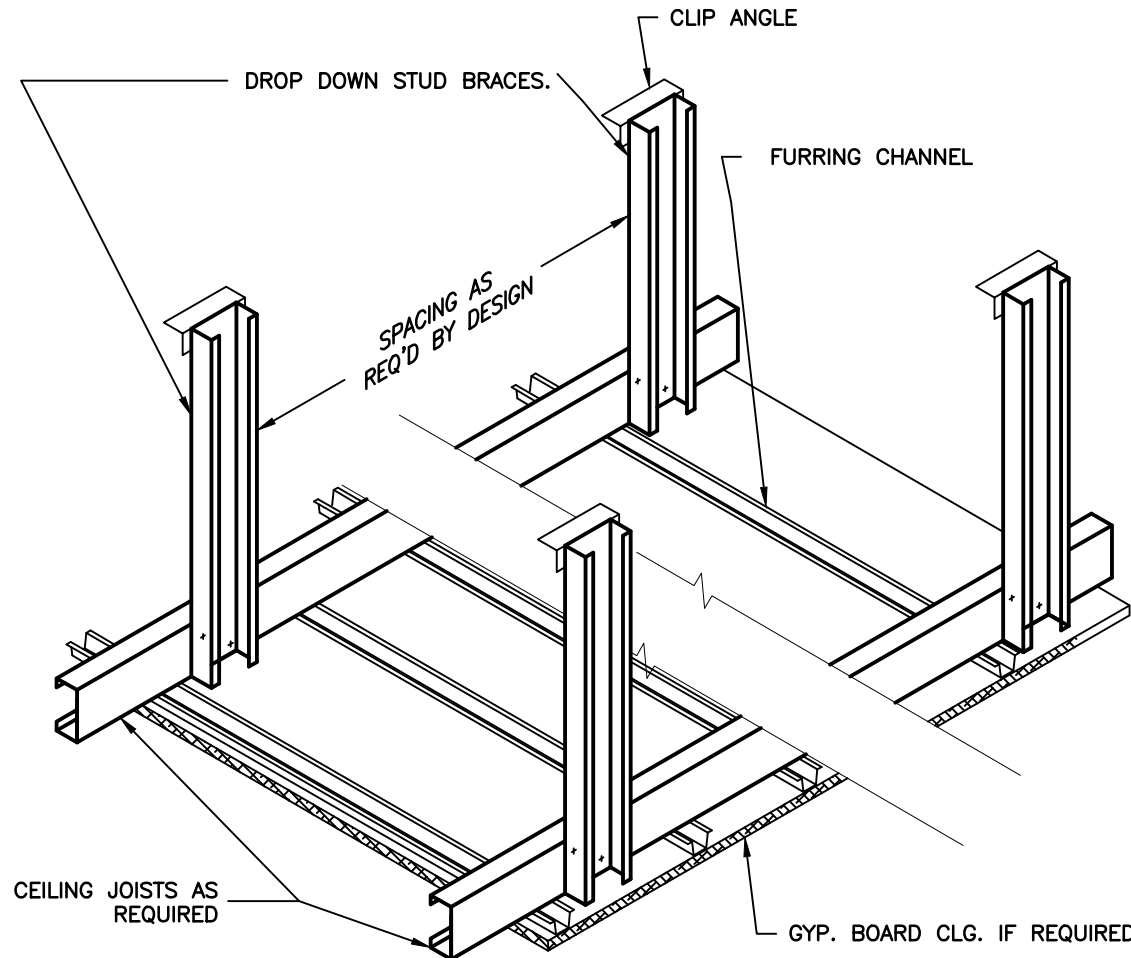


ISOMETRIC VIEW

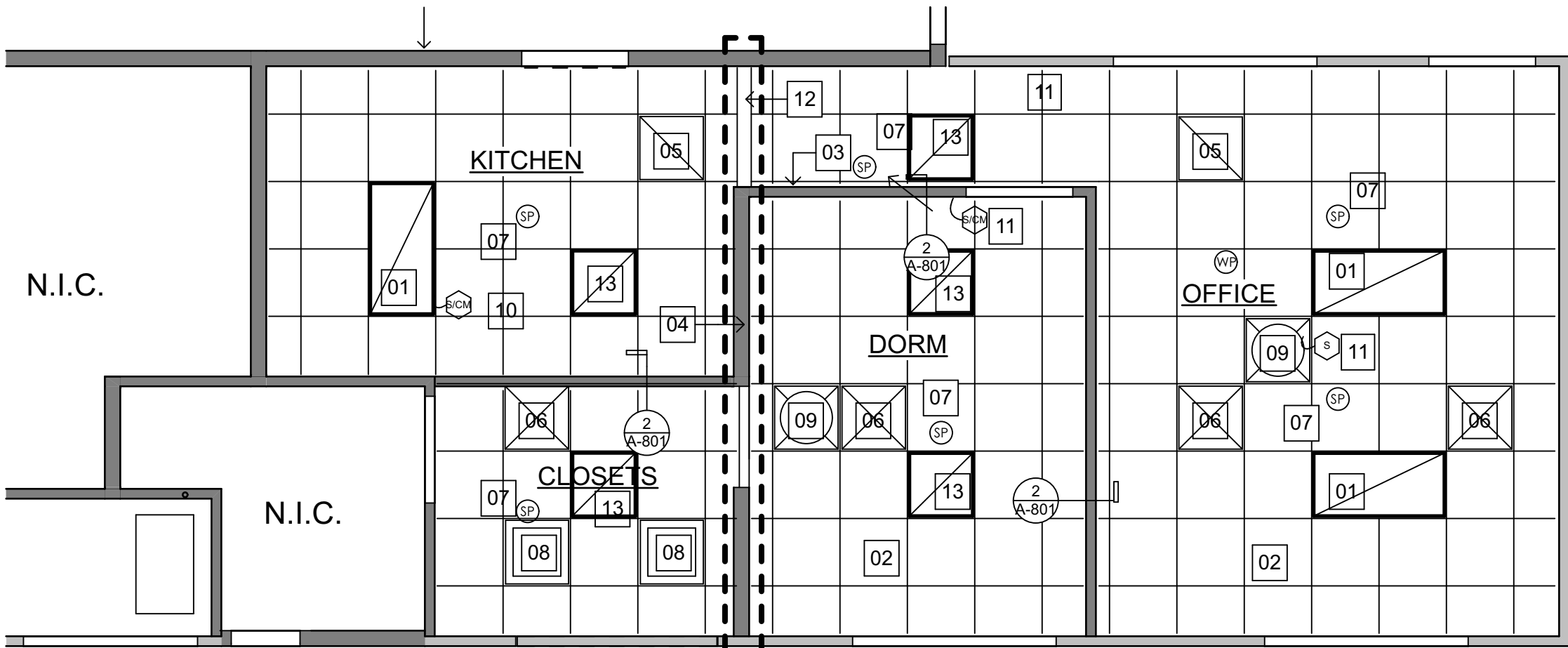
TYPICAL DETAILS



1 SPLICE DETAIL  
NO SCALE



2 STUD BRACING DETAIL  
NO SCALE



THE EXISTING T-BAR SUSPENDED CEILING GRID ASSEMBLY SHALL REMAIN WITH THE EXCEPTIONS AS NOTED.

PERFORM HVAC AIR BALANCE AND SUBMIT REPORT

REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"

KEYNOTES

- 01 (E) 2x4 LET-IN TROFFERS
- 02 (E) 2x2 T-BAR GRID ASSEMBLY TO REMAIN U.N.O.
- 03 TRIM THE T-BAR CEILING EA. SIDE AT (N) DORM WALL
- 04 (N) SHEAR WALL TO (E) RF FRAMING ABOVE
- 05 RELOCATE / EXTEND (E) HVAC RETURN AIR DUCT
- 06 RELOCATE / EXTEND (E) HVAC SUPPLY AIR REGISTER
- 07 VERIFY (E) SPRINKLER HEAD LOCATIONS OFFSET ANY RISERS PER C-16 CONTRACTOR PLAN
- 08 (N) CEILING LIGHTS
- 09 RELOCATE (E) SPEAKER COORDINATE POSITION w/ VCFD
- 10 (E) SMOKE DETECTOR
- 11 (N) SMOKE & CARBON MONOXIDE DETECTOR
- 12 TRANSOM AS-BUILT TO MAINTAIN (E) T-BAR CEILING ASS'Y
- 13 (N) L.E.D. TROFFERS IN (E) T-BAR CEILING ASS'Y LITHIONA # 2BLT2

REVISIONS	DATE	BY
△ CHECK SET	18 OCT 21	REC
△ CHECK SET	7 DEC 21	REC
△ STRUCT REV & ACCESS. RSTRM	30 MAR 23	REC
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△ REVISE PER V.C. B&S	23 AUG 23	REC
△ REVISE PER V.C. B&S	15 SEP 23	REC

ROY E COLBERT

ARCHITECTURE  
PLANNING  
DESIGN

2590 EAST MAIN STREET  
SUITE 100  
VENTURA, CA 93003

805 / 650-9590 PH  
roelb@sbcglobal.net  
CALIFORNIA C12050  
N.C.A.R.B.  
www.roycolbertarchitect.com

LEARNED ARCHITECT  
ROY E. COLBERT  
NO. C12050  
10-31-2025  
STATE OF CALIFORNIA

This project has been designed by me, or under my direct supervision.

COUNTY OF VENTURA  
Resource Management Agency  
APPROVED  
This set of plans and specifications MUST be kept on the job at all times and it is unlawful to make any changes or alterations on same without written permission from the Building and Safety Division, County of Ventura. The stamping of this plan and specifications SHALL NOT be held to permit or to be an approval of the violation of any provisions of any County Ordinance of State Law.  
K. LUN 06/09/2023  
Building and Safety Division

PROJECT  
INTERIOR RENOVATION  
Fire Station 41  
1910 Church Street  
Simi Valley, CA 93065

OWNER  
Ventura County Fire Dept.  
165 Durley Avenue  
Camarillo, CA 93010

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM  
\_NOT USED

CIVIL ENGINEER  
\_NOT USED

STRUCTURAL ENGINEER  
CORRIE PUTNEY, P.E.  
engineercorrie@gmail.com  
805 / 901.2078

ELECTRICAL ENGINEER  
\_NOT USED

MECHANICAL ENGINEER  
\_NOT USED

LANDSCAPE ARCHITECT:  
\_NOT USED

WATER SYSTEM / FIRE PROTECTION SYSTEM  
\_NOT USED

DORM REFLECTED CEILING  
FS-41

SHEET NAME

DATE

AS SHOWN  
SCALE

R 21 - 011  
PROJECT

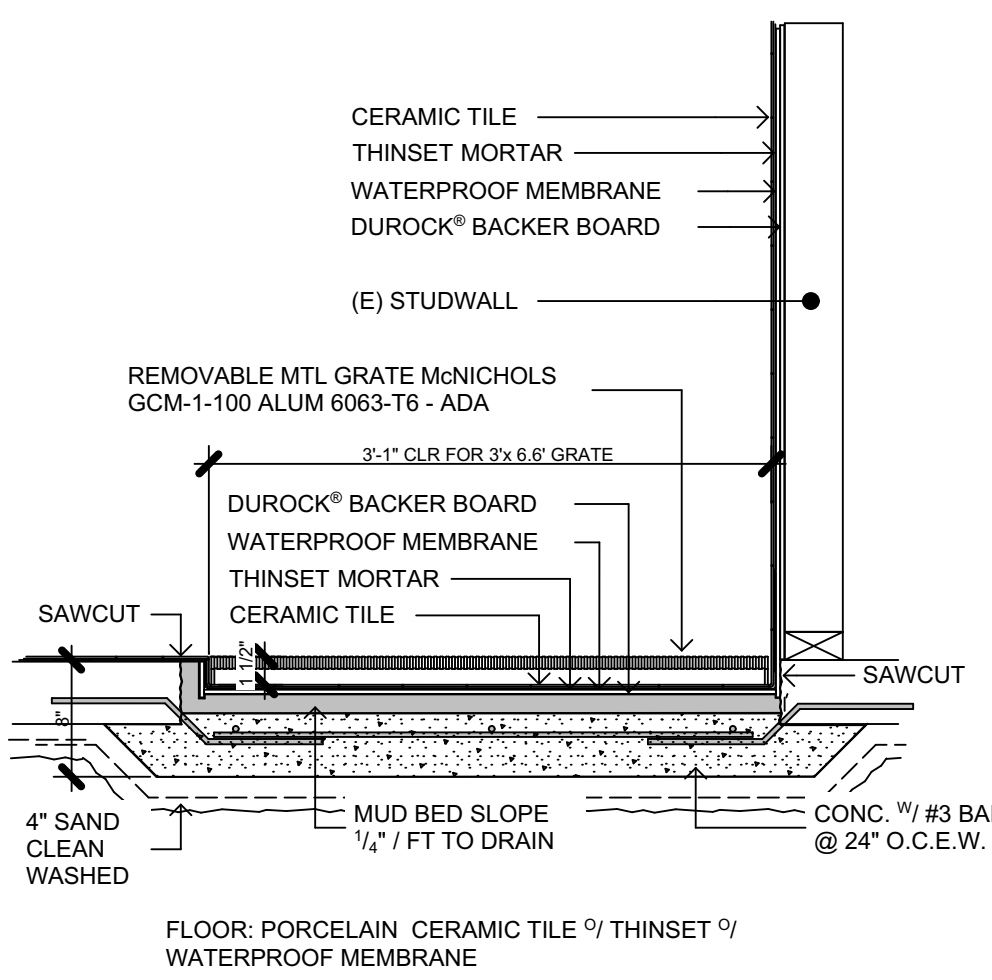
A-203  
SHEET NUMBER

OF 18 SHEETS

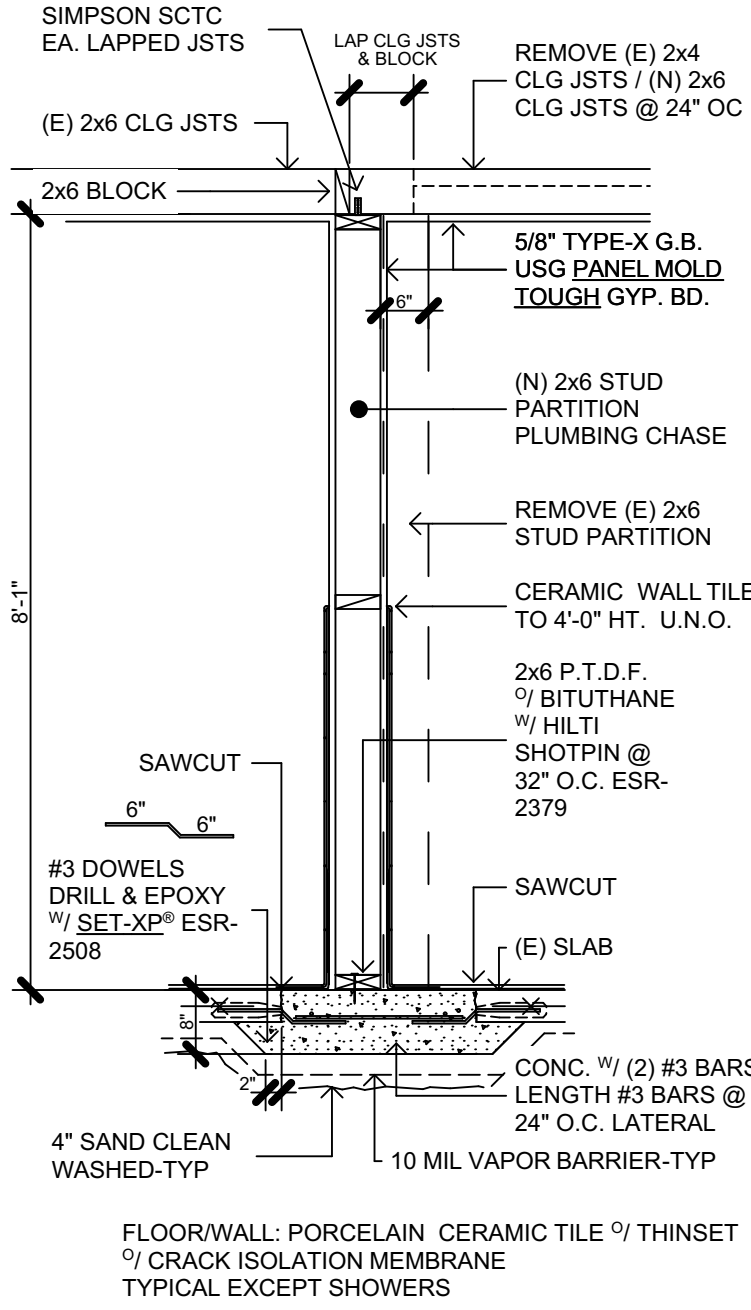


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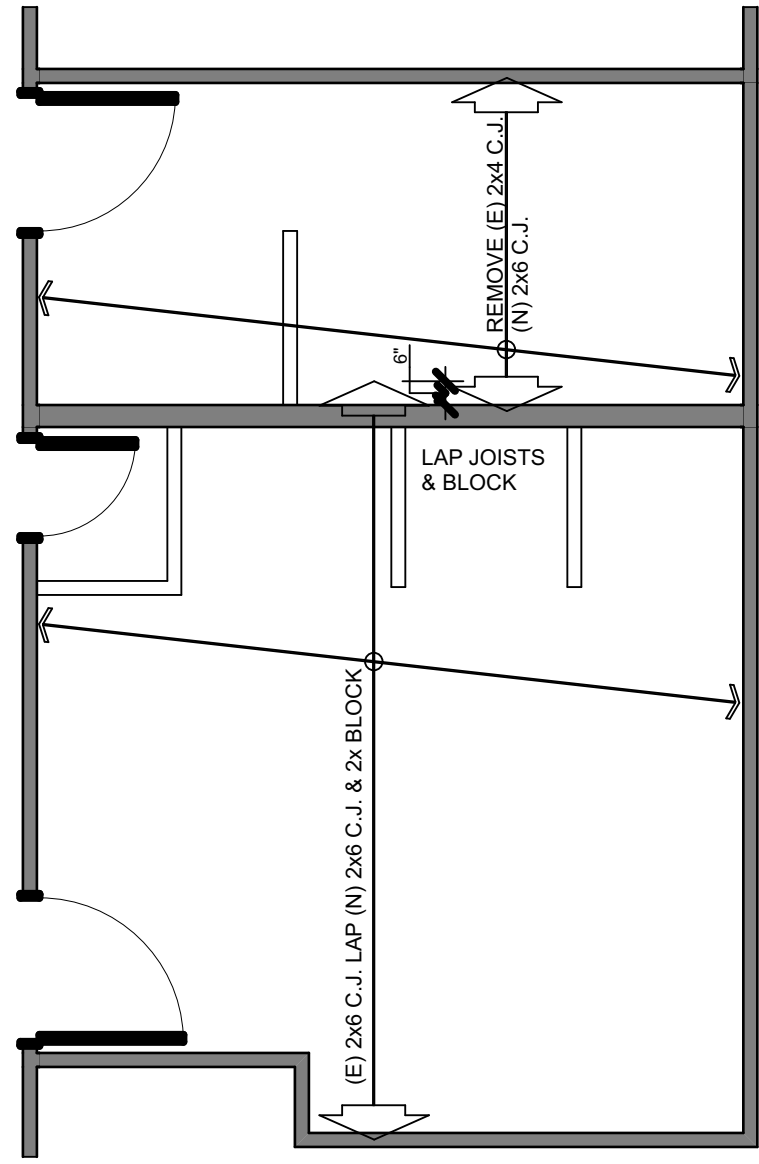
- SHOWER NOTES - TYPICAL (3) SHOWERS:
1. DUROCK® CEMENTITIOUS BOARD IS SHOWN ALTERNATES: HYDROBAN, REDGARD, AQUADEFENSE. SUBMIT FOR APPROVAL.
  2. APPLY WATERPROOF MEMBRANE & BOND TO BACKER BOARD.
  3. SEAL ALL CORNERS, SEAMS, ETC & LAP 2" <sup>W</sup> WATERPROOF TAPE



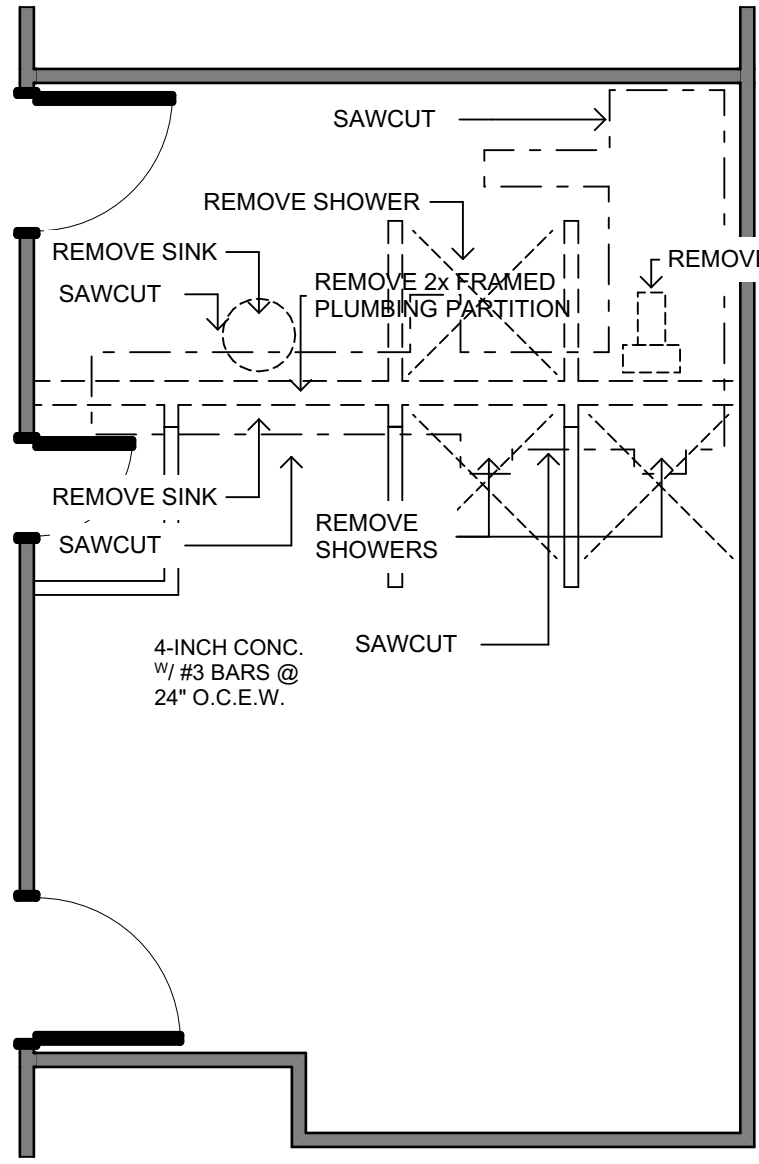
2 ACCESSIBLE SHOWER DETAIL  
1" = 1'-0"



1 WALL SECTION DETAIL  
1/2" = 1'-0"

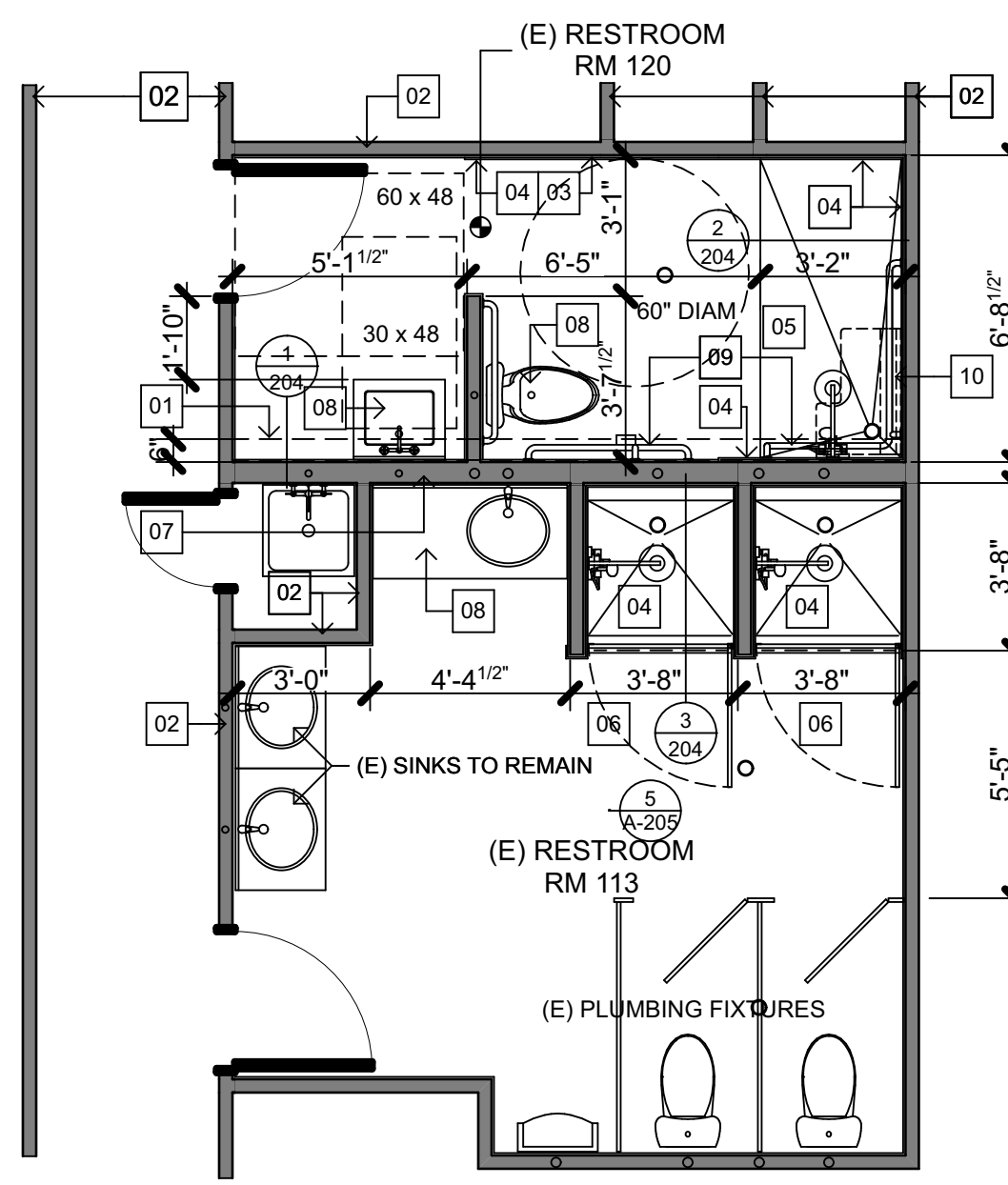


CEILING JOIST PLAN



DEMOLITION PLAN

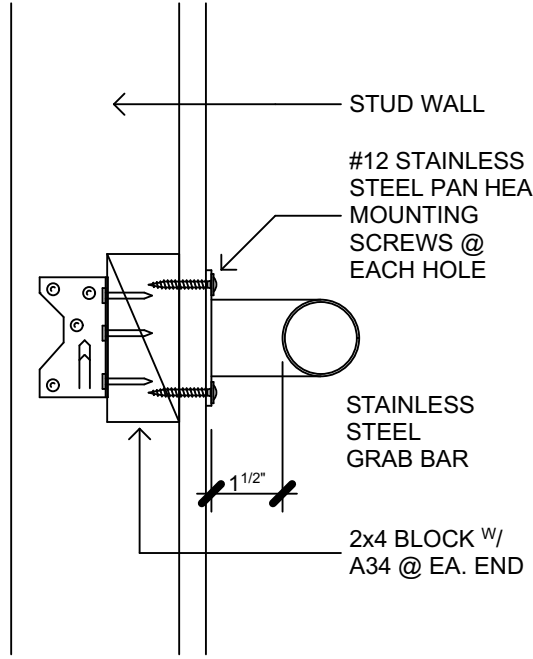
THE (E) RESTROOM TO BE MADE WIDER BY 6" AND CONFIGURED FOR ACCESSIBILITY PER CHAPTER 11B-101.2 FOR BARRIER-FREE REMOVAL AND 11B-202.4, EXCEPTION 3.2 ALTERING ONE EXISTING TOILET FACILITY



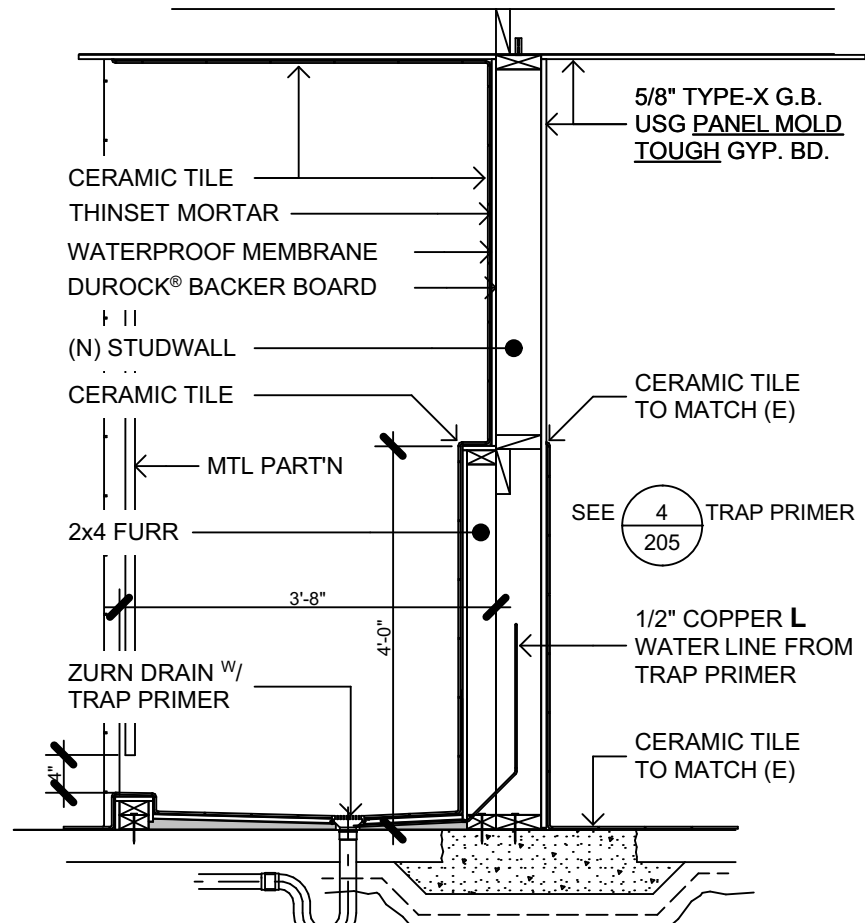
ELECTRIC FLOOR PLAN RESTROOM 120 & 113

KEYNOTES		
01	DEMO (E) PLUMBING CHASE STUD WALL AND SHOWER ENCLOSURE AND PLUMBING FIXTURES	
02	(E) INTERIOR STUD WALL TO REMAIN	
03	DEMO/REPLACE 5/8" GYP. BD. WATER RESISTANT	
04	SHOWER: 8-FT HT CERAMIC TILE <sup>W</sup> THINSET <sup>W</sup> SLIP SHEET <sup>W</sup> 1/2" DUROCK® (WALLS) SLOPE TO DRAIN <sup>W</sup> 2x4 HALF WALL UP TO 4'-0" SHELF HT @ RM 113	
05	METAL GRATE 3'0" x 6'0" & DEPRESS SLAB 1 1/2" ENTIRE LENGTH	
06	3'0" x 6'0" x 1" PRIVACY PARTITION DOOR <sup>W</sup> 4" OPEN @ CURB : METPAR & MATCH (E) PARTNS	
07	(N) 2x6 STUDWALL PLUMBING CHASE / SAWCUT SLAB TO EXTEND & RECONNECT DWV LINES & REPAIR	
08	DEMO/REPLACE SHOWERS, SINKS (& COUNTERS) & TOILET <sup>W</sup> LOW FLOW FIXTURES	
09	ACCESSIBLE GRAB BARS AND ACCESSORIES SHALL COMPLY WITH CBC, CHAPTER 11B (DETAIL 4)	
10	FOLD DOWN SEAT: BOBRICK B-5181	

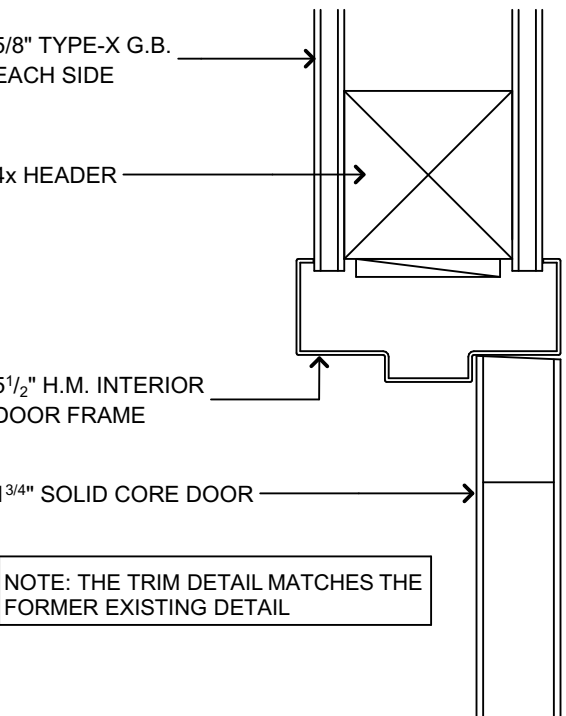
1. INSTALL USG 1-HR RATED 5/8" SHEETROCK® PANEL MOLD TOUGH® EACH SIDE (UL TYPE SCX)
2. INSTALL 1/2" DUROCK® BACKER BOARD TO 8-FT HT @ SHOWERS @ SINKS & TOILET TO 45" HEIGHT
- 3.



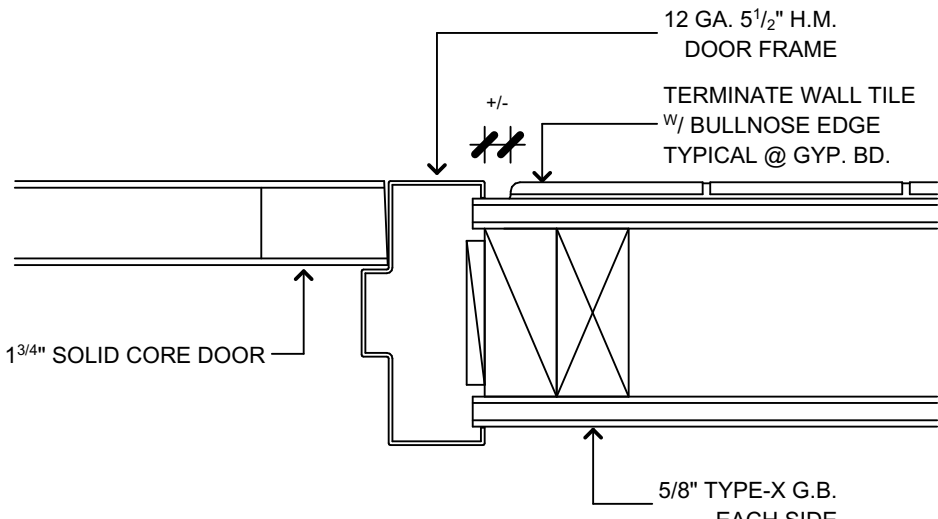
4 GRAB BAR MOUNTING DETAIL  
SCALE: 3/4" = 1'-0"



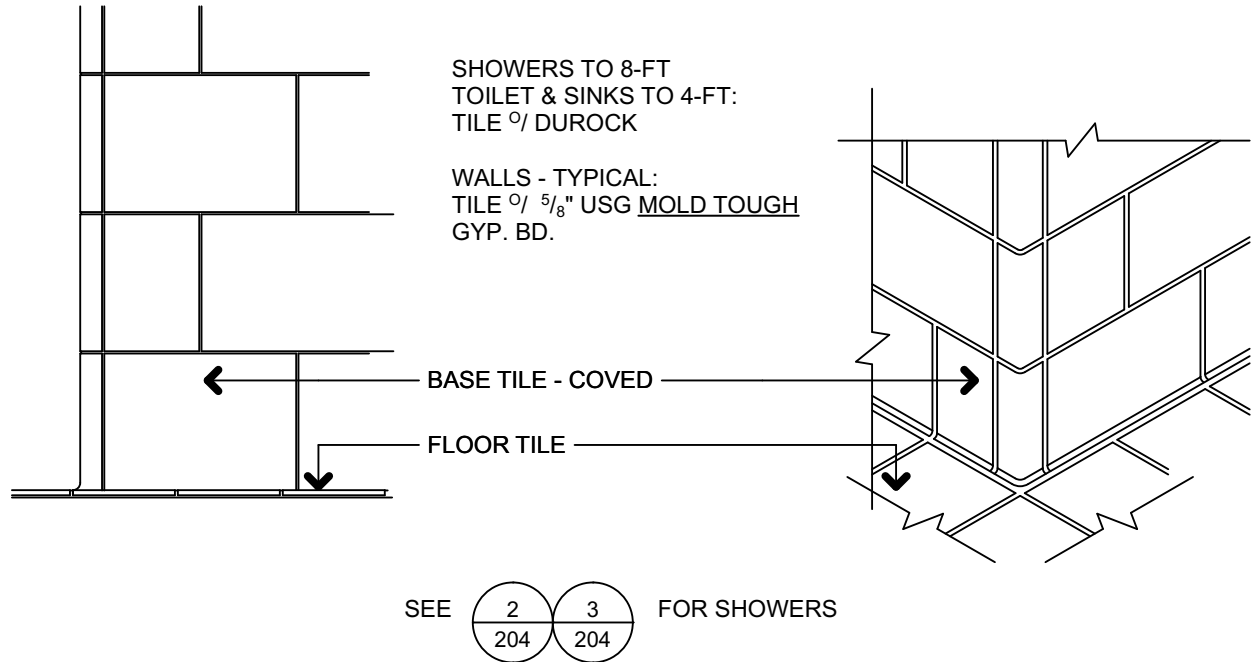
3 SHOWER WALL SECTION  
1/2" = 1'-0"



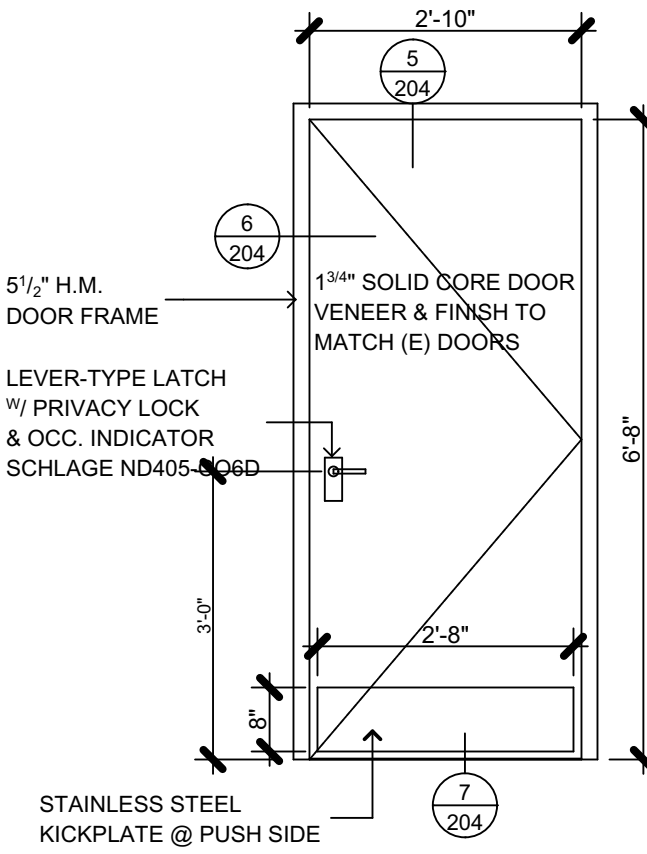
5 DOOR INTERIOR HEAD H.M. DTL  
SCALE: 3/4" = 1'-0"



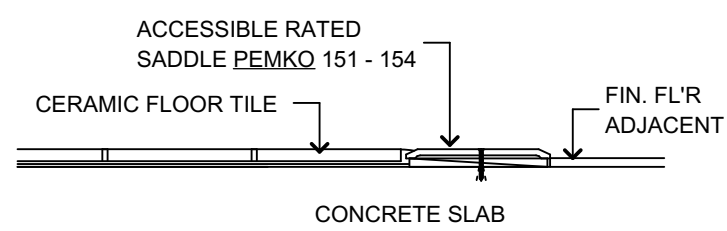
6 DOOR INTERIOR JAMB H.M. DTL  
SCALE: 3/4" = 1'-0"



9 CERAMIC TILE WALL & BASE DTL  
SCALE: 1 1/2" = 1'-0"



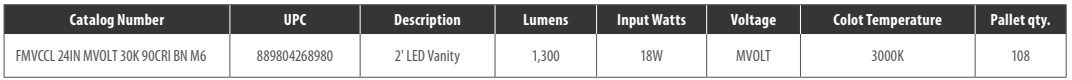
8 ACCESSIBLE RESTROOM DOOR DTL  
SCALE: 1/2" = 1'-0"



7 ACCESSIBLE SADDLE DTL  
SCALE: 3/4" = 1'-0"

REVISIONS	DATE	BY
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△ REVISE PER V.C. B&S	15 SEP 23	REC
<b>ROY E COLBERT</b>		
<b>ARCHITECTURE PLANNING DESIGN</b>		
2590 EAST MAIN STREET SUITE 100 VENTURA, CA 93003		
805 / 650-9590 PH rocolb@sbcglobal.net CALIFORNIA C12050 N.C.A.R.B. www.roycolbertarchitect.com		
This project has been designed by me, or under my direct supervision.		
PROJECT <b>INTERIOR RENOVATION</b> Fire Station 41 1910 Church Street Simi Valley, CA 93065		
OWNER Ventura County Fire Dept. 165 Durley Avenue Camarillo, CA 93010		
PROJECT DIRECTORY		
SOILS ENGINEER / SEPTIC SYSTEM _NOT USED		
CIVIL ENGINEER _NOT USED		
STRUCTURAL ENGINEER CORRIE PUTNEY, P.E. engineercorrie@gmail.com 805 / 901.2078		
ELECTRICAL ENGINEER _NOT USED		
MECHANICAL ENGINEER _NOT USED		
LANDSCAPE ARCHITECT: _NOT USED		
WATER SYSTEM / FIRE PROTECTION SYSTEM _NOT USED		
<b>RESTROOM 120 RENOVATION FOR ACCESSIBILITY</b>		
SHEET NAME		
DATE		
<b>AS SHOWN</b>		
SCALE		
<b>R 21 - 011</b>		
PROJECT		
<b>A-204</b>		
SHEET NUMBER	OF 18 SHEETS	






- |    |   |
|----|---|
| 01 | (E) INTERIOR SHEAR WALL   |
| 02 | RELOCATE (E) OUTLETS PER A/207 VERIFY G.F.C.I.                  |
| 03 | (N) WALL MOUNT LITHONIA® FMVCC2 2-FT LED                        |
| 04 | (N) LITHONIA FMLRL 11 148 LED SURFACE MOUNT<br>VERIFY (E) J-BOX |
| 05 | RELOCATE (E) EXHAUST  |
| 06 | (N) DIMMER SWITCH PER LIGHT MFR                                 |
| 07 | RELOCATE OUTLET <sup>AND</sup> <sub>OR</sub> LIGHT AS AFFECTED  |

LITHONIA LED VANITY 2FT\_FMVCL  
SCALE: 1:1.31

LITHONIA LED 1-FT ROUND FMLRL  
SCALE: 1:1.31













**1 ELECTRICAL 1st FLOOR**  
SCALE: 1/4" = 1'-0"



- |    |  |
|----|--|
| 01 | SAWCUT (E) SLAB & RE-ROUTE DWV LINES   |
| 02 | (N) SHOWER DRAINS  |
| 03 | (E) F.C.O.   |
| 04 | (E) 4" C.I. LATERAL  |
| 05 | RELOCATE FLOOR DRAIN  |
| 06 | COMBINE (N) VENTS TO (E) 2" COMBINATION VTR IN ATTIC   |
| 07 | (N) 4" ABS TO (E)  |
| 08 | (N) 2" ABS TO (E)  |

- 1 THE PIPENOUGHATIONS SHOW ARE DIAGRAMMATIC ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL LATERAL STUBS, BRANCHES, AND OBSTRUCTIONS TO THE MAIN LINE IN THE FIELD.
- 2 THE ACTUAL LOCATIONS OF SIZES, LINES, ETC. MAY VARY PROVIDED THAT COMPLETE SYSTEMS ARE PROPOSED AND INSTALLED IN COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.
- 3 ALL ABOVE GROUND COLD AND HOT WATER PIPING IN THE BUILDING SHALL BE U.S. MANUFACTURED TYPE "K" HARD COPPER WITH NON-LEAD SOLDER SWEAT JOINTS.
- 4 WHERE WATER PIPES PIERCE FINISHED SURFACES PROVIDE CORNER PLATED BRASS ESCUTCHEONS WITH INTEGRAL SET SCREW.
- 5 ALL ABOVE GROUND NATURAL GAS PIPING SHALL BE U.S. MANUFACTURED BLACK STEEL PIPE RATED FOR INTERIOR LOCATIONS WITH DRAINED FITTINGS.
- 6 ALL DRAINS, VENTS, FITTINGS AND DRAINS SHALL BE ABS PIPING, AND SLOPED TO 1/4" PER FOOT.
- 7 ALL VENT PIPES SHALL BE FLASHED AND COUNTER-FLASHED WHERE THESE PIPES PENETRATE THE ROOF.
- 8 COMBINE NEARBY VENTS AND RUN TO THAT ROOF THAT ROOF THAT IS AT LEAST 10' ABOVE ANY HVAC AIR INTAKE.

- TOILET: KOHLER K-25077-SSRA-Q (RIGHT SIDE LEVER)  
H.C. LAV: KOHLER K-0235-8 WALL MOUNT  
FAUCET: CHICAGO FAUCET 110G-GN2FC 317 ABCP  
LAV: CORIAN DOUNTERTOP W/ INTEGRAL LAVATORY  
BASIN (PER KOHLER K-Z211 DIMENSIONS)  
FAUCET: KOHLER -98146-4-CP DECK MOUNT  
FAUCET KITCHEN: MOEN 87233, OPTION 2  
SHOWER: KOHLER K-21278-G-TT (3 SHOWERS)  
MOP SINK: 2 x 2 x 6" H x 16 GA S/STL W/ 3"Ø DRAIN & TRAP  
MOP FAUCET: CHICAGO FAUCET 897-RCF

-  CW COLD WATER LINE  
 HW HOT WATER LINE  
 G FUEL GAS LINE  
 SANITARY WASTE (DRAIN) LINE  
 (E) SANITARY WASTE (DRAIN) LINE  
 VENT PIPE  
 DRAINS/FLOOR DRAINS  
 FLOOR CLEAN OUT  
 WALL CLEAN OUT  
 P.O.C. (POINT OF CONNECTION)  
 S.O.V. (SHUT-OFF VALVE)  
 L-ANGLE / T-ANGLE

## 2 PLUMBING PLAN



REVISIONS	DATE	BY
	CHECK SET	18 OCT 21
	CHECK SET	7 DEC 21
	STRUCT REV & ACCESS: RSTRM	30 MAR 23
	EDIT / CLARIFY PER CLIENT	15 JUN 23
	REVISE PER V.C. B&S	23 AUG 23
	REVISE PER V.C. B&S	15 SEP 23
ROY E COLBERT		
ARCHITECTURE PLANNING DESIGN		
2590 EAST MAIN STREET SUITE 100 VENTURA, CA 93003		
805 / 650-9590 PH rcolb@sbccglobal.net		
CALIFORNIA C12050 N.G.A.R.B.		
www.roycolbertarchitect.com		
		
This project has been designed by me, or under my direct supervision.		
		
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K. LIN 09/20/2023 Building and Safety Division		
PROJECT		
INTERIOR RENOVATION Fire Station 41 1910 Church Street Simi Valley, CA 93065		
OWNER Ventura County Fire Dept. 165 Durley Avenue Camarillo, CA 93010		
PROJECT DIRECTORY		
SOILS ENGINEER / SEPTIC SYSTEM _NOT USED		
CIVIL ENGINEER _NOT USED		
STRUCTURAL ENGINEER CORRIE PUTNEY, P.E. engineercorrie@gmail.com 805 / 901.2078		
ELECTRICAL ENGINEER _NOT USED		
MECHANICAL ENGINEER _NOT USED		
LANDSCAPE ARCHITECT: _NOT USED		
WATER SYSTEM / FIRE PROTECTION SYSTEM _NOT USED		
RESTROOM ELECTRICAL PLAN & PLUMBING PLAN FS- 41		
SHEET NAME		
DATE		
AS SHOWN		
SCALE		
R 21 - 011		
PROJECT		
A-205		
SHEET NUMBER		
OF 18 SHEETS		



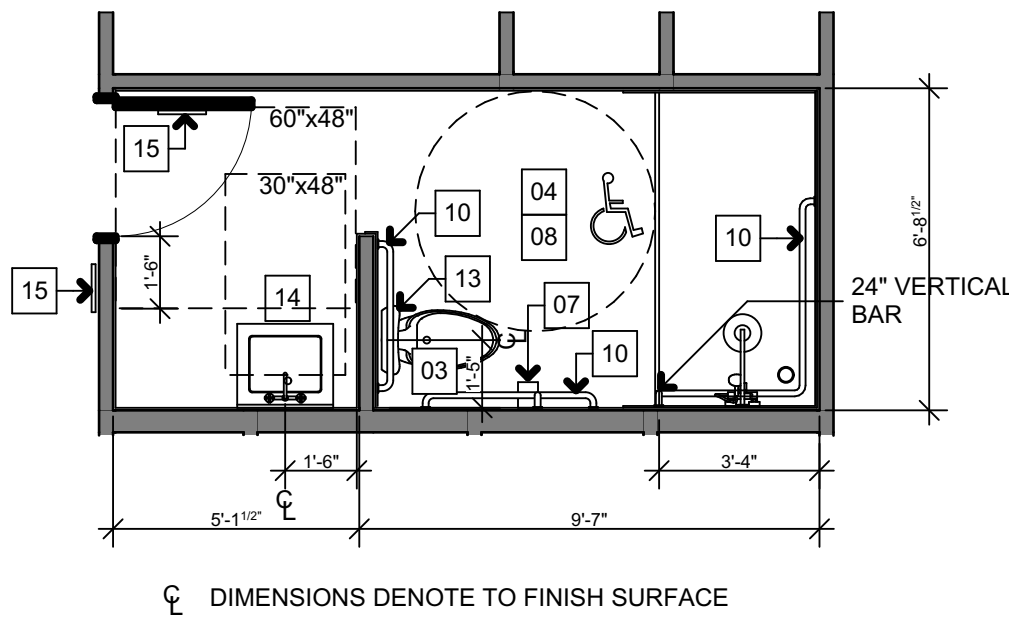
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ACCESSIBILITY GENERAL NOTES

- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE NEAREST ACCESSIBLE ENTRANCE.
- RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 18" ABOVE FINISH FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE, OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED.
- WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THESE SYSTEMS SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOMS, AND PLACED EITHER 80" ABOVE FINISH FLOOR OR 8" BELOW FINISH CEILING, WHICHEVER IS LOWER.
- DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (ie.: LEVER-OPERATED, PUSH AND U-SHAPED PULLS) INSTALLED AT 34" - 44" A.F.F. (CBC, 11B-404.2.7)
- FLOOR SURFACE (PER FINISH SCHEDULE) SHALL BE INSTALLED TO BE STABLE, FIRM & SLIP RESISTANT. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2" REQUIRE A RAMP. GRATINGS IN A FLOOR SURFACE SHALL HAVE SPACES NO GREATER THAN 1 1/2" WIDTH. DOORWAY THRESHOLDS AND SADDLES SHALL NOT EXCEED 1/2" HEIGHT.
- GRAB BARS REQUIRED FOR ACCESSIBILITY SHALL BE 1 1/4" - 2" DIAMETER WITH 1 1/4" CLEAR SPACE BETWEEN THE BAR AND THE WALL. (CBC, 11B-605.2.1)
- ACCESSIBLE WATER CLOSETS SHALL BE 17" - 19" FROM FLOOR TO TOP OF SEAT. GRAB BARS SHALL BE 36" LENGTH LOCATED BEHIND THE WATER CLOSET AND 42" LENGTH LOCATED ALONG THE SIDE, AND THE TOP OF THE GRAB BAR SHALL BE BETWEEN 33" - 36" ABOVE FINISH FLOOR.
- ACCESSIBLE URINALS SHALL BE STALL TYPE OR WALL-HUNG TYPE, EACH WITH ELONGATED RIMS AT 17" MAXIMUM ABOVE FINISH FLOOR.
- ACCESSIBLE LAVATORIES SHALL BE INSTALLED WITH THE RIM AT 34" MAX. ABOVE FINISH FLOOR AND A CLEARANCE OF 29" MIN. A.F.F. TO UNDERSIDE OF THE APRON.
- ACCESSIBLE SINKS SHALL BE INSTALLED WITH THE RIM AT 34" MAX. A.F.F. AND A CLEARANCE OF 27" MIN. HEIGHT x 30" WIDTH x 19" DEPTH UNDER THE SINK.
- ALL WATER AND DRAIN PIPING UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP NOR ABRASIVE SURFACES AND EDGES UNDER ACCESSIBLE LAVATORIES AND SINKS.
- ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS AND VALVESETS (ie.: LEVER-OPERATED, PUSH-TYPE, ELECTRONICALLY CONTROLLED).
- WHEN MIRRORS ARE INSTALLED IN RESTROOMS ABOVE THE ACCESSIBLE LAVATORY, IT SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE MIRROR SURFACE AT 40" MAX. ABOVE THE FINISHED FLOOR.

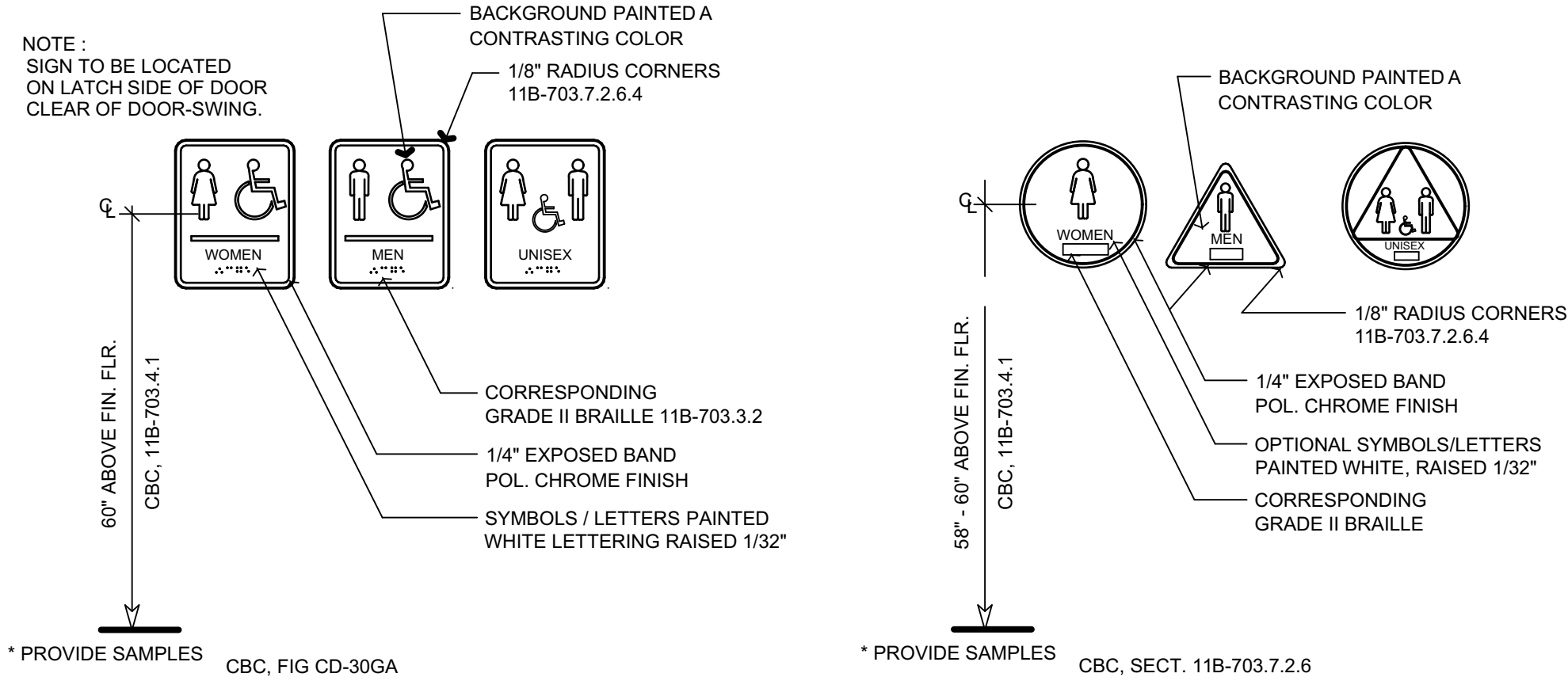
RESTROOM ACCESSIBILITY CODE REFERENCES

- TOILET ROOMS SHALL COMPLY WITH CBC, SECT. 11B-603.
- ALL OPERABLE PARTS OF TOILET ROOM ACCESSORIES SHALL BE 40-INCHES HT. MAXIMUM ABOVE FINISH FLOOR. (11B-603.5)
- THE CENTER LINE OF THE ACCESSIBLE TOILET SHALL BE 18 INCHES FROM THE SIDEWALL OR PARTITION. (11B-604.2)
- CLEARANCE AROUND AN ACCESSIBLE TOILET SHALL BE 60-INCHES MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 36-INCHES FOR A WALL-MOUNTED TOILET MEASURED PERPENDICULAR FROM THE REAR WALL. (11B-604.3.1 AND 11B-604.4.1)
- CLEARANCE IN FRONT OF THE TOILET SHALL BE 60-INCHES MINIMUM WIDTH AND 48-INCHES DEPTH MANEUVERING SPACE. (11B-604.3.1)
- FLUSH VALVES, MANUALLY OPERATED OR AUTOMATIC, SHALL BE LOCATED ON THE OPEN SIDE OF THE COMPARTMENT AND 44-INCH HT. MAXIMUM. (11B-604.6)
- TOILET TISSUE DISPENSERS SHALL BE 7'-9" IN FRONT OF THE TOILET AS MEASURED TO THE CENTER LINE OF THE DISPENSER, AND 16-INCHES MINIMUM ABOVE THE FINISH FLOOR. (11B-604.7)
- WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS SHALL BE 60-INCHES WIDTH MINIMUM AND 56-INCHES DEPTH FOR WALL-HUNG TOILETS, OR 58-INCHES DEPTH FOR FLOOR-MOUNTED TOILETS WHEN AT LEAST ONE SIDE WALL PROVIDES 5-INCH HEIGHT TOE SPACE UNDER. (11B-604.3.1 AND 11B-604.6.1)
- WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS SHALL BE 34-INCHES WIDTH MINIMUM CLEAR OPENING AND BE SELF-CLOSING. (11B-604.8.1.2)
- GRAB BARS SHALL BE 1 1/4" - 2" DIAM. AND BE INSTALLED AT 1 1/2" MAXIMUM FROM THE WALL IT IS MOUNTED ON. (11B-604.8.1.5 AND 11B-609)
- AMBULATORY ACCESSIBLE TOILET COMPARTMENTS SHALL BE 35" - 37" WIDTH AND 60-INCHES DEPTH MINIMUM. (11B-604.8.2.1)
- URINAL SHALL BE INSTALLED WITH THE FRONT RIM 17-INCHES ABOVE FINISH FLOOR AND 13 1/2" DEPTH MINIMUM. (11B-605.2, 11B-605.4 AND 11B-305)
- MANUAL LEVER FLUSH VALVES FOR TOILETS AND URINALS SHALL HAVE A OPERATING FORCE NO GREATER THAN 6 LBS. MAXIMUM, OPERATE WITH ONE HAND, AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. (11B-309.4)
- LAVATORIES SHALL BE INSTALLED AT 34-INCHES HT. WITH 29-INCHES UNDER COUNTER CLEARANCE, AND CLEAR FLOOR SPACE. (11B-606, 11B-606.4 AND 11B-305)
- TOILET ROOM ACCESSIBILITY DOOR SYMBOLS SHALL COMPLY WITH CBC, SECT. 11B-703.7.2.6.



PROJECT FLOOR PLAN

SCALE: 1/4" = 1'-0"

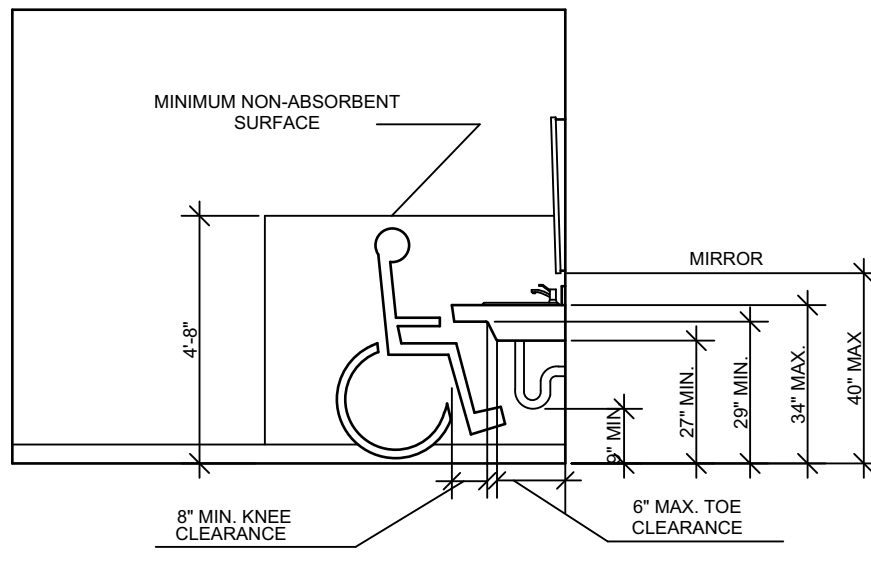


WALL MOUNTED SIGNAGE DETAIL

NO SCALE

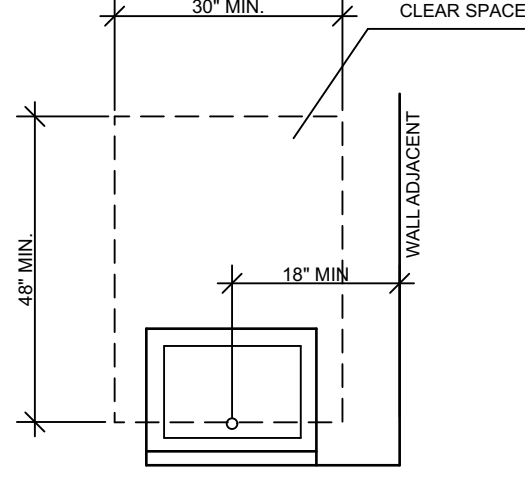
DOOR MOUNTED SIGNAGE DETAIL

NO SCALE



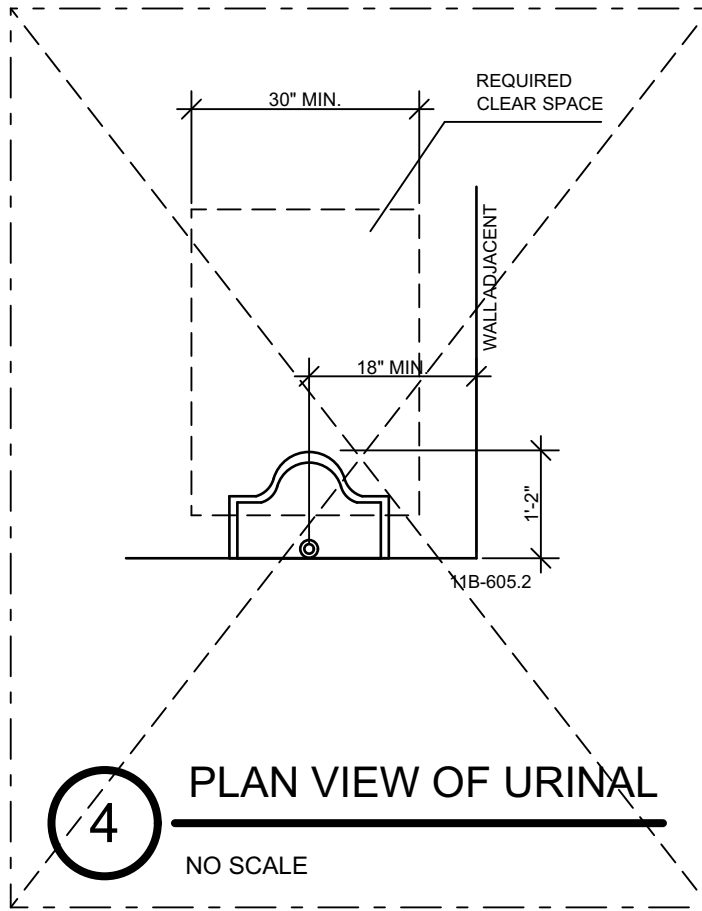
ELEVATION OF WALL MOUNTED LAVATORY

NO SCALE



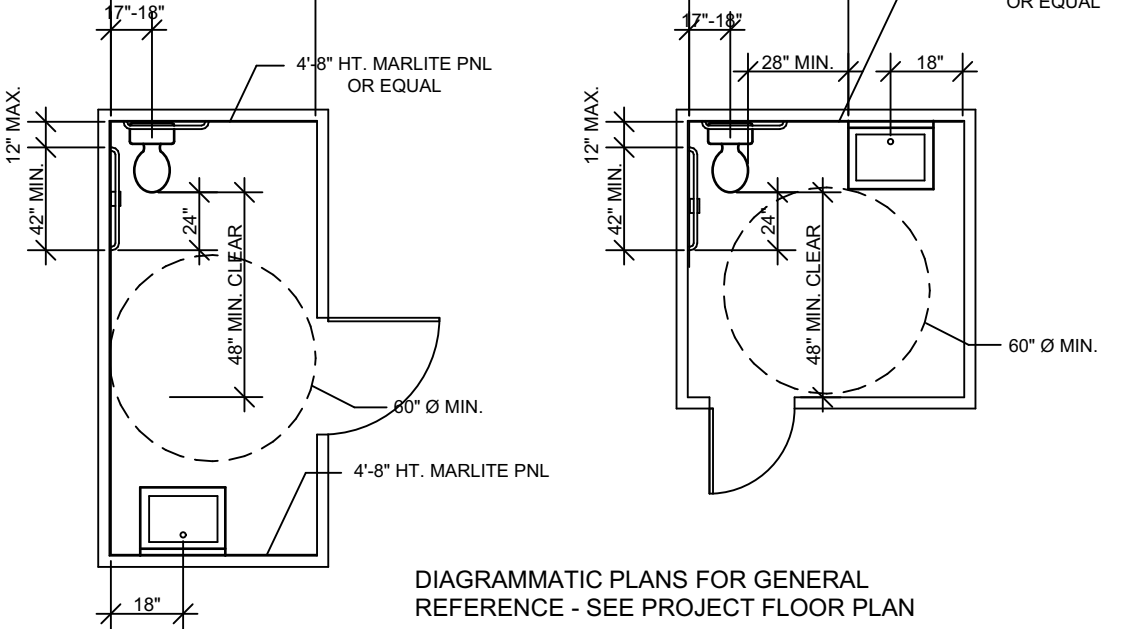
PLAN VIEW OF LAVATORY

NO SCALE



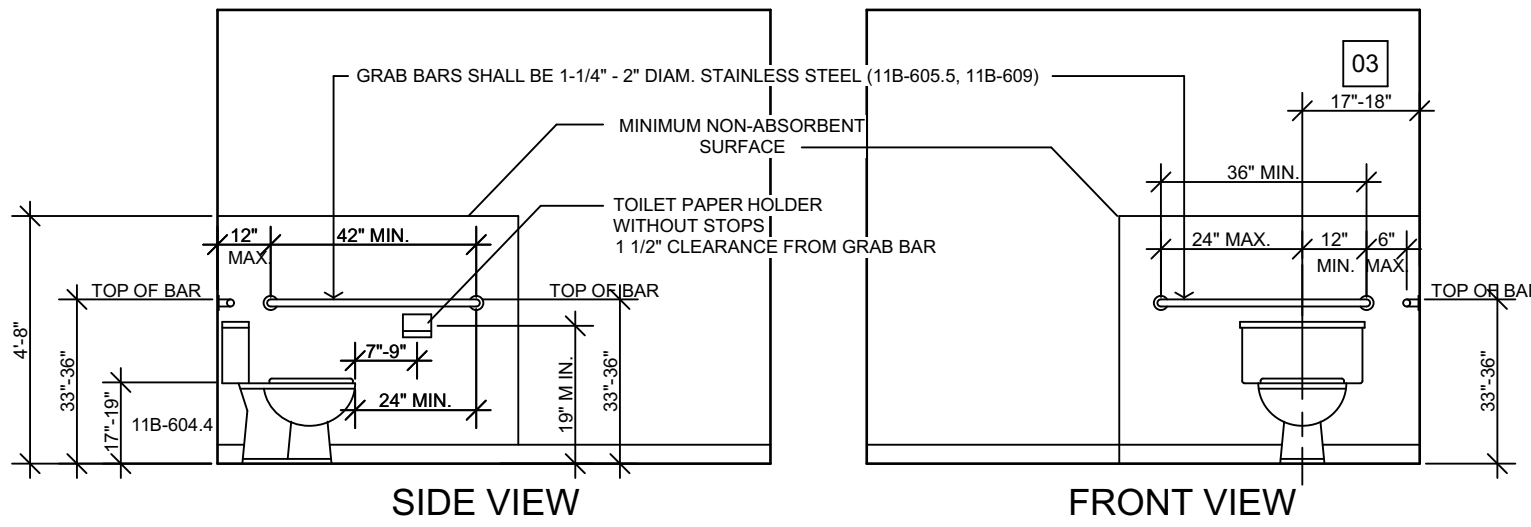
PLAN VIEW OF URINAL

NO SCALE



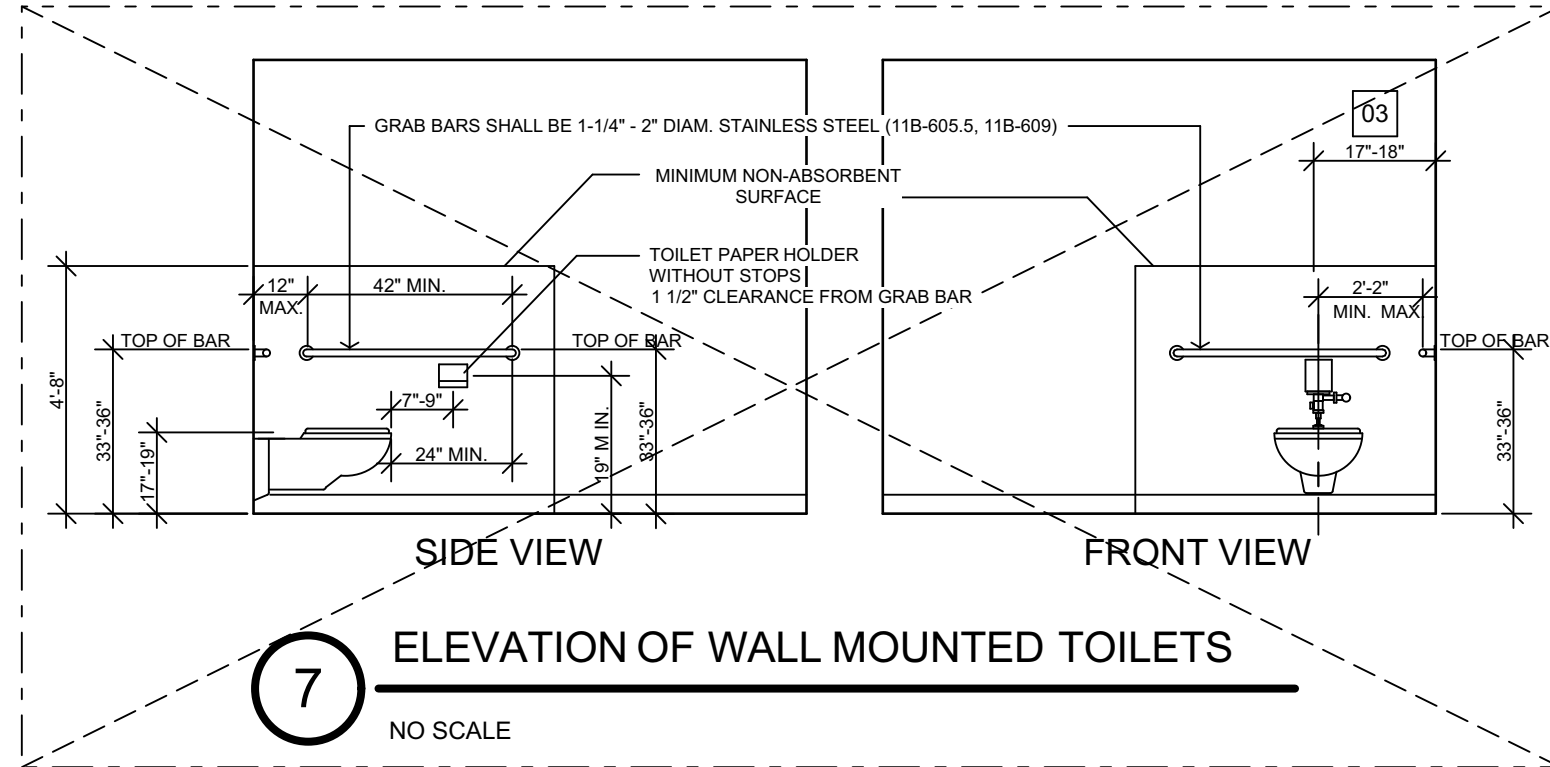
PLAN VIEW - TYPICAL ROOMS

NO SCALE



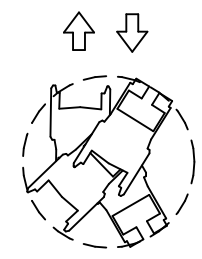
ELEVATION OF FLOOR MOUNTED TOILETS

NO SCALE



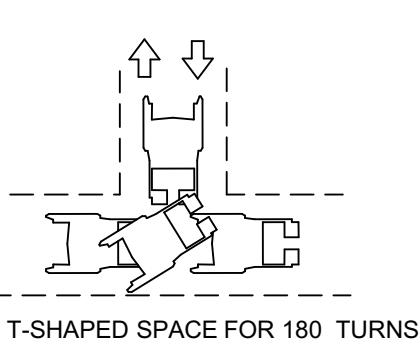
ELEVATION OF WALL MOUNTED TOILETS

NO SCALE

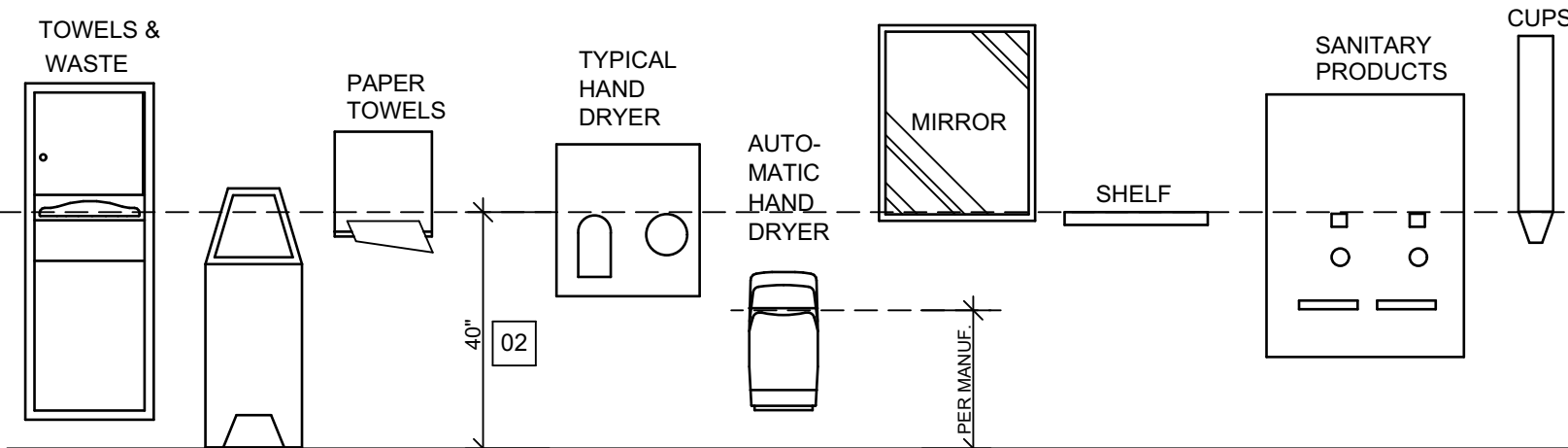


TYPICAL TURNING ACCESS CLEARANCES

NO SCALE



T-SHAPED SPACE FOR 180 TURNS



ELEVATION OF RESTROOM ACCESSORIES

NO SCALE

THESE ARE TYPICAL CONDITIONS AND DIMENSIONS OF RESTROOMS. THIS INFORMATION SHALL BE USED AS REFERENCE FOR ALL RESTROOMS.

TYPICAL ACCESSIBLE RESTROOM DETAILS

ACCESSIBLE RESTROOM DETAILS

SCALE: 1/4" = 1'-0"

REVISIONS	DATE	BY
△ CHECK SET	18 OCT 21	REC
△ CHECK SET	7 DEC 21	REC
△ STRUCT REV & ACCESS. RSTRM	30 MAR 23	REC
△ EDIT / CLARIFY PER CLIENT	15 JUN 23	REC
△ REVISE PER V.C. B&S	23 AUG 23	REC
△ REVISE PER V.C. B&S	15 SEP 23	REC

ROY E COLBERT

ARCHITECTURE  
PLANNING  
DESIGN

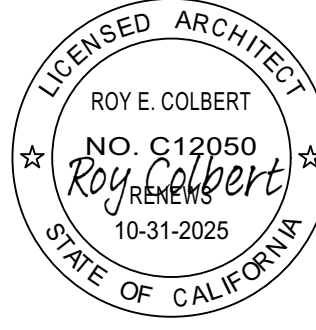
2590 EAST MAIN STREET  
SUITE 100  
VENTURA, CA 93003

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K. LHM 09/20/2023  
Building and Safety Division

PROJECT  
**INTERIOR RENOVATION**  
Fire Station 41  
1910 Church Street  
Simi Valley, CA 93065

OWNER  
Ventura County Fire Dept.  
165 Durley Avenue  
Camarillo, CA 93010

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM  
\_NOT USED

CIVIL ENGINEER  
\_NOT USED

STRUCTURAL ENGINEER  
CORRIE PUTNEY, P.E.  
engineercorrie@gmail.com  
805 / 901.2078

ELECTRICAL ENGINEER  
\_NOT USED

MECHANICAL ENGINEER  
\_NOT USED

LANDSCAPE ARCHITECT:  
\_NOT USED

WATER SYSTEM / FIRE PROTECTION SYSTEM  
\_NOT USED

ACCESSIBLE RESTROOM  
DETAILS

SHEET NAME

DATE

AS SHOWN

SCALE

R 21 - 011

PROJECT

A-206

SHEET NUMBER

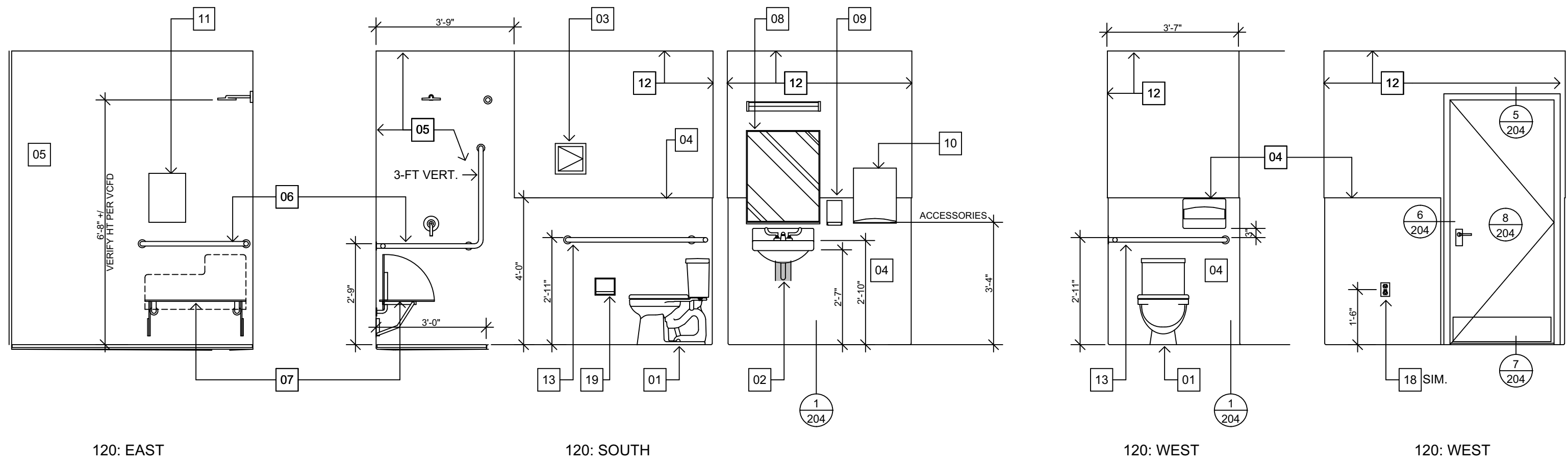
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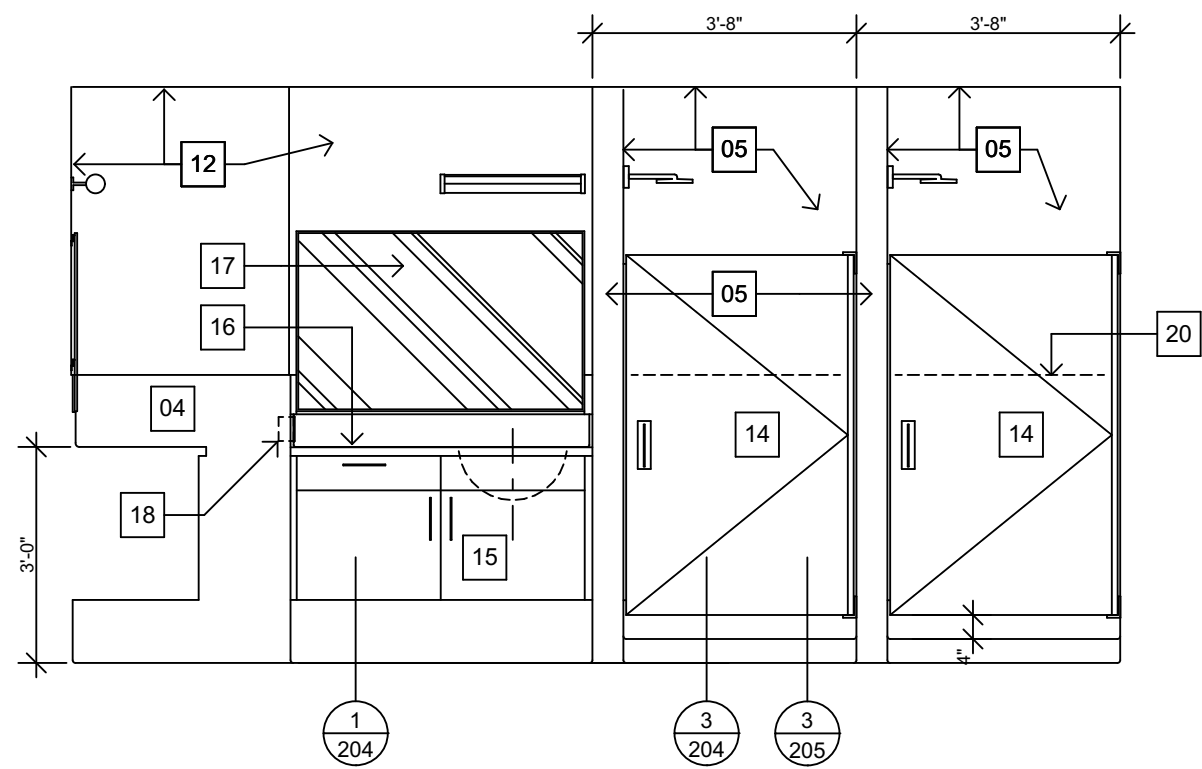


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SEE (SHT 206) ACCESSIBILITY DTLs

1. RETAIN (E) WALL & FLOOR TILE SAMPLES & VERIFY SELECTION <sup>WJ</sup>/ VCFD
2. FLOOR TILES SHALL BE 0.6 C.O.F. MINIMUM
3. TERMINATE WALL TILES <sup>WJ</sup>/ BULLNOSE
4. TILE THE FACE OF THE SHOWER STALLS
5. TILE GROUT: CUSTOM BLDG PRODUCTS POLYBLEND "DELOREAN GREY"
7. SEAL ALL GROUT WITH AQUA MIX PENETRATING SEALER









#### KEYNOTES

- 01 TOILET: TANK TYPE FLOOR MOUNT
- 02 LAV: <sup>WJ</sup>/ DRAIN COVER WALL MOUNT
- 03 12" x 12" STAINLESS STEEL ACCESS PNL @ TRAP PRMER LOCATION
- 04 CERAMIC WALL TILE TO 4'-0" HT
- 05 SHOWER: CERAMIC WALL TILE TO 8'-0" HT
- 06 L-SHAPED GRAB BAR <sup>WJ</sup>/ VERTICAL LEG @ SHOWER
- 07 FOLD DOWN SEAT: BOBRICK
- 08 24x36" MIRROR <sup>WJ</sup>/ SHT MTL SHELF SPACER SHIM @ GYP. BD.
- 09 SOAP DISPENSER
- 10 TOWEL DISPENSER SPACER SHIM
- 11 RECESS 16" HT WALL NICHE BTWN STUDS
- 12 5/8" TYPE-X GYP. BD.: USG PANEL MOLD TOUGH PAINT SEMI-GLOSS ENAMEL
- 13 L-SHAPED GRAB BAR: BOBRICK B-6861 (68137)
- 14 36 x 54 x 1" PRIVACY PARTITION DOOR <sup>WJ</sup>/4" OPEN @ CURB: METPAR & MATCH (E) PARTNS
- 15 (N) BASE CABT <sup>WJ</sup>/ SINK PER (E) PROVIDE SHOP DRAWING FOR APPROVAL
- 16 CORIAN "VERDANT" COUNTERTOP <sup>WJ</sup>/ BACK & SIDE SPLASH 6" <sup>WJ</sup>/ UP TO SHELF
- 17 48x24" MIRROR <sup>WJ</sup>/ SHT MTL SHELF SPACER SHIM @ GYP. BD.
- 18 RELOCATE (E) DUPLEX OUTLET @ SIDE SPLASH VERIFY GFCI
- 19 ROLL TISSUE DISPENSER: BOBRICK
- 20 LINE OF SHELF WALL IN SHOWER BEYOND

#### A INTERIOR ELEVATIONS

SCALE: 3/8" = 1'-0"

REVISIONS	DATE	BY
	CHECK SET	18 OCT 21 REC
	CHECK SET	7 DEC 21 REC
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	EDIT / CLARIFY PER CLIENT	15 JUN 23 REC
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	REVISE PER V.C. B&S	15 SEP 23 REC

#### ROY E COLBERT

#### ARCHITECTURE PLANNING DESIGN

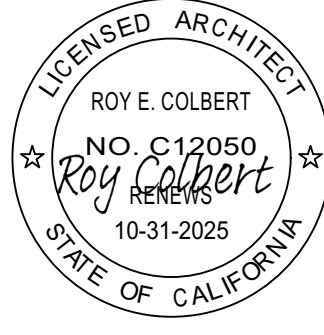
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SUITE 100  
VENTURA, CA 93003

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Building and Safety Division

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805 / 901.2078

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LANDSCAPE ARCHITECT:  
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WATER SYSTEM / FIRE PROTECTION SYSTEM  
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#### INTERIOR ELEVATIONS

SHEET NAME

DATE

AS SHOWN

SCALE

R 21 - 011

PROJECT

A-207

SHEET NUMBER

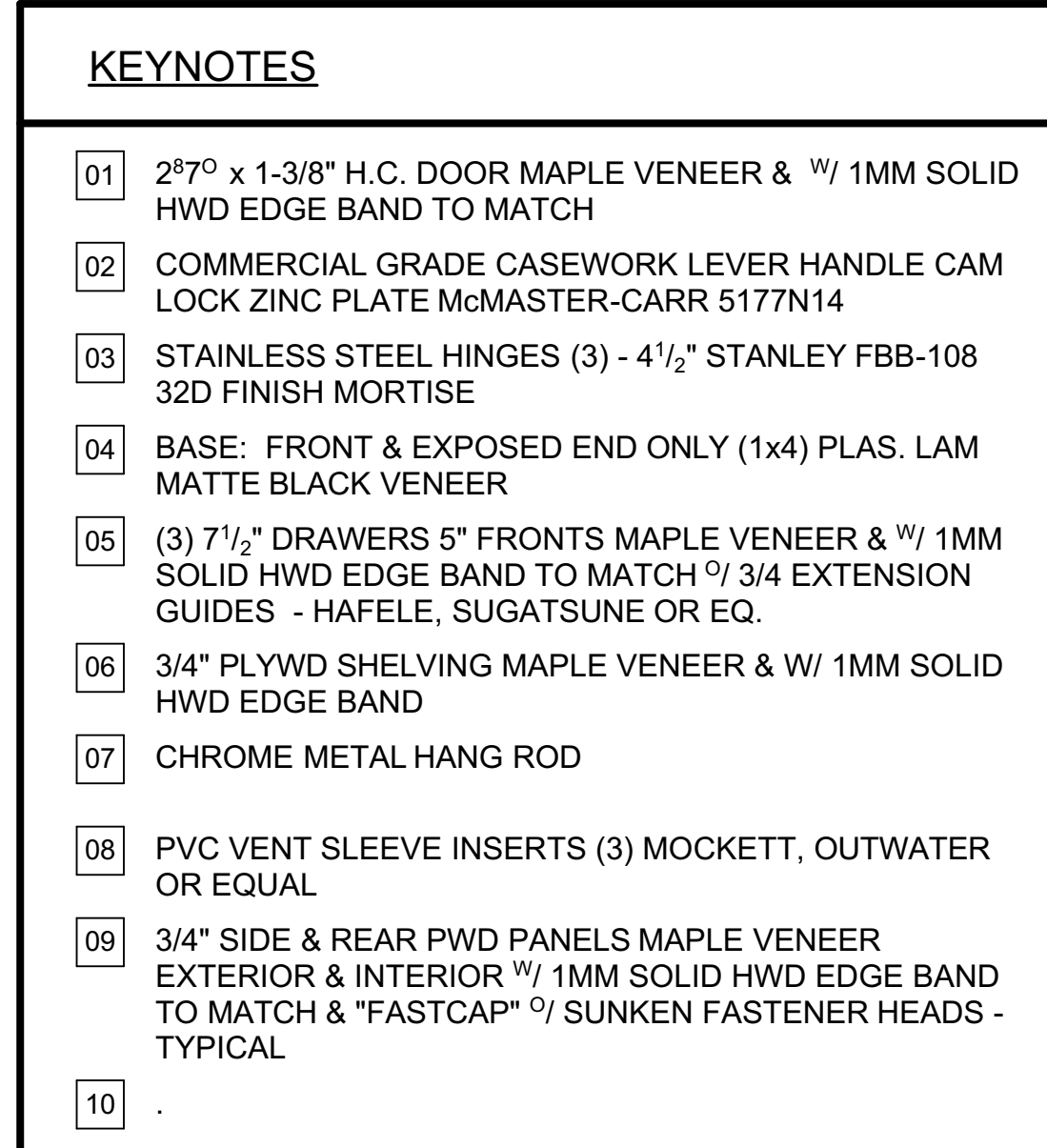
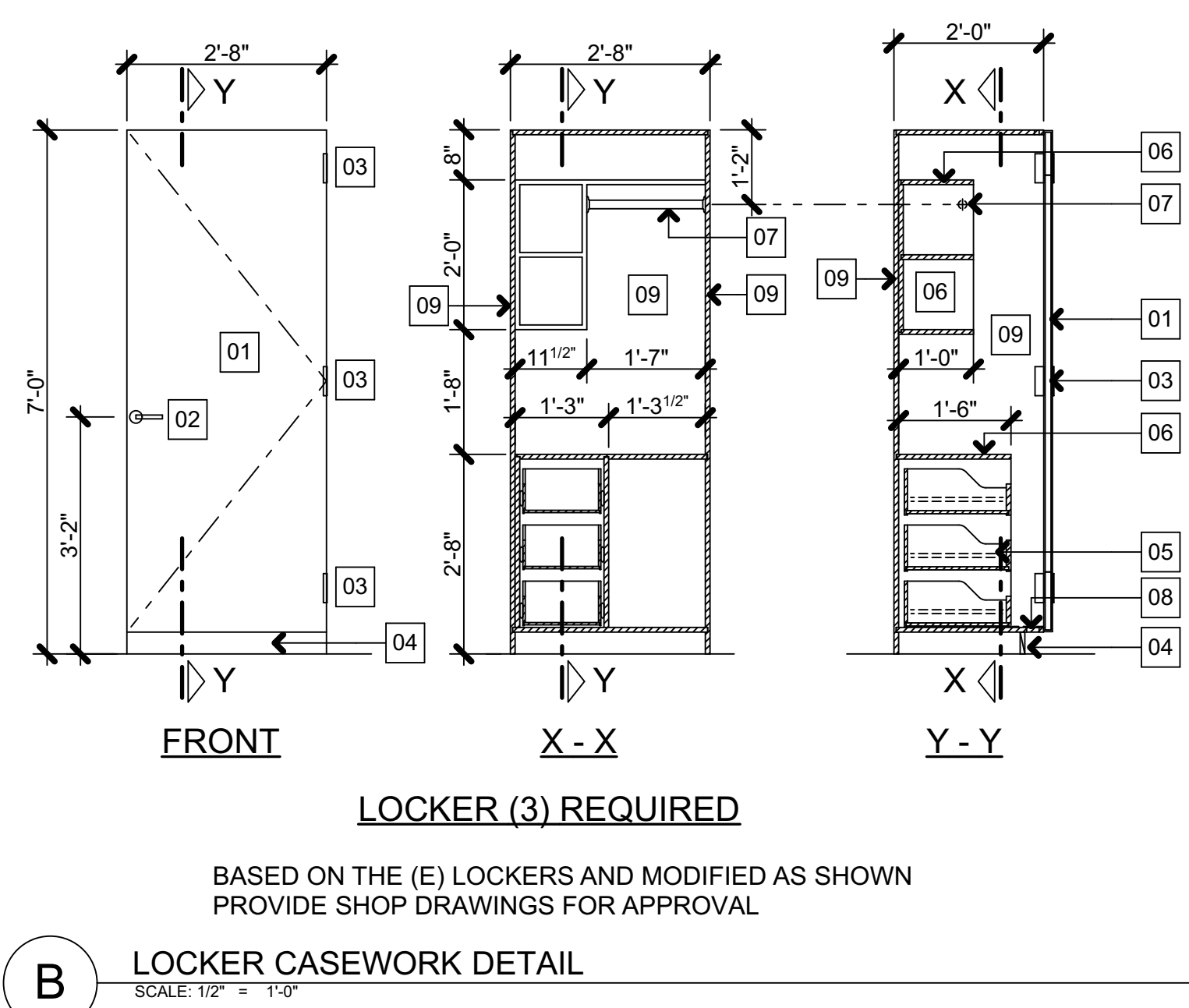
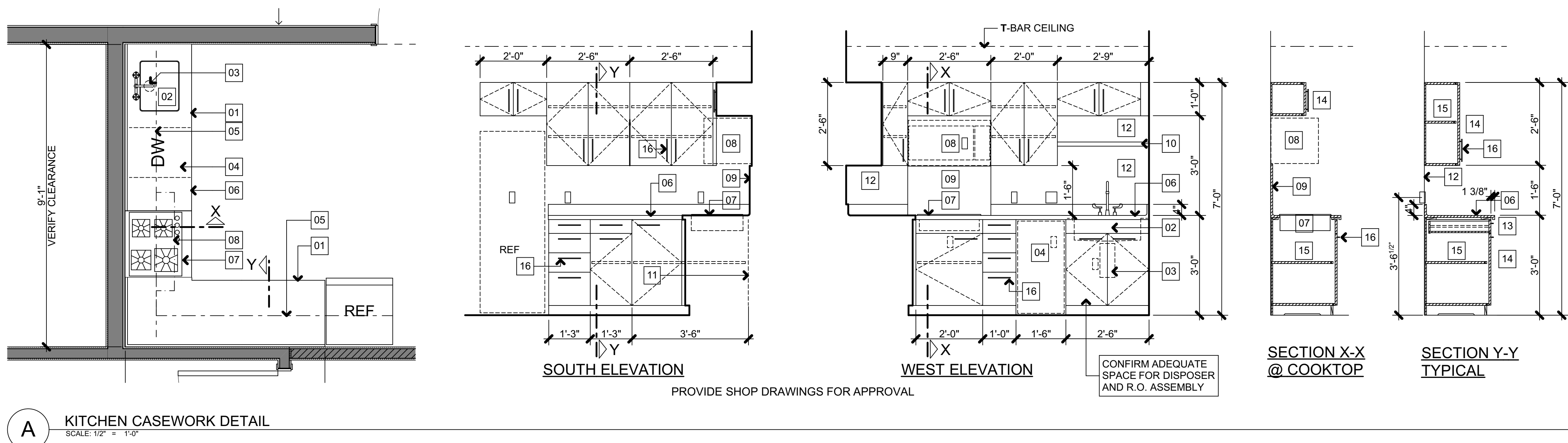
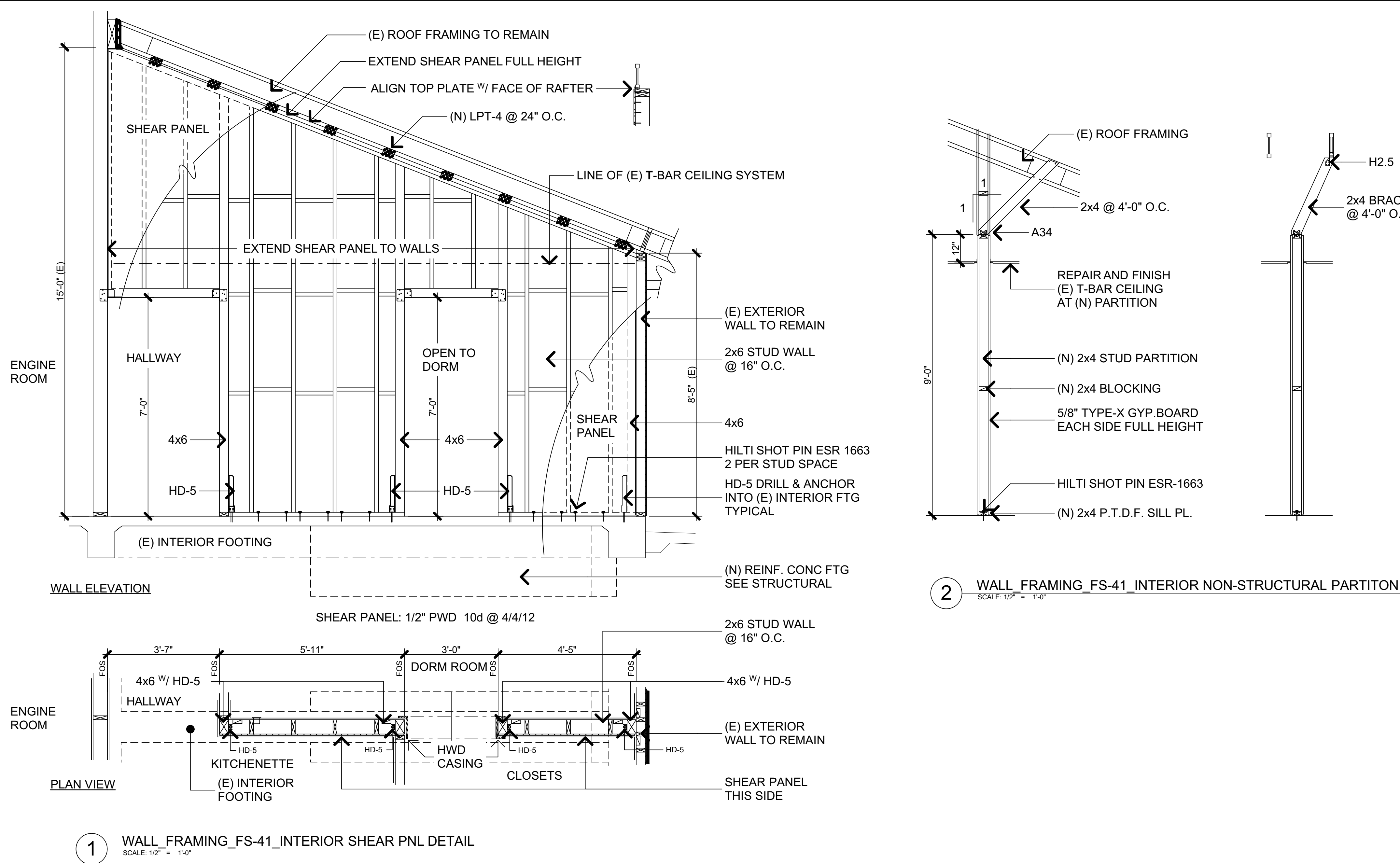
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ROY E COLBERT

ARCHITECTURE  
PLANNING  
DESIGN

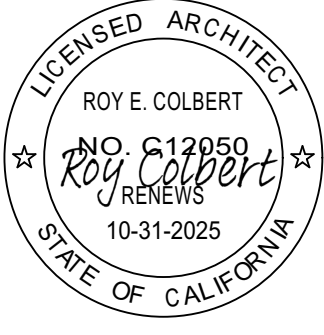
2590 EAST MAIN STREET  
SUITE 100  
VENTURA, CA 93003

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**Building and Safety Division**

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\_NOT USED

WATER SYSTEM / FIRE PROTECTION SYSTEM  
\_NOT USED

DETAILS FS-41

**SHEET NAME**

DATE \_\_\_\_\_

AS SHOWN

R 21 - 011  
PROJECT

A-801

SHEET NUMBER OF 18 SHEETS

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[illegible]



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ROY E COLBERT							
ARCHITECTURE PLANNING DESIGN							
2590 EAST MAIN STREET SUITE 100 VENTURA, CA 93003							
805 / 650-9590 PH  rcolb@sbcglobal.net  CALIFORNIA C12050 N.C.A.R.B.  www.roycolbertarchitect.com							
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R 21 - 011							
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A-SPEC 2							
SHEET NUMBER OF 18 SHEETS							

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

BUILDING & SAFETY: 2nd SUBMITTAL



This project record document, drawings and specifications have been prepared on the basis of data compiled and furnished by others. Roy E Colbert, Architect, will not be responsible for errors or omissions resulting from that data being incorporated into this document. These drawings and specifications, and the incorporated ideas and designs, constitute an instrument of professional service and are the sole property of Roy E Colbert, Architect. These documents in whole, or in part, shall not be used for any other project without the written authorization of Roy E Colbert, Architect.

KOHLER

- Features**
- Ideal for commercial installations
  - Antimicrobial finish inhibits the growth of mold-, mildew-, stain-, and odor-causing bacteria on the fixture surface. This product does not protect users against bacteria, viruses, or other disease organisms. Always clean and wash this product thoroughly before and after each use
  - Two-piece design
  - Elongated bowl offers added room and comfort
  - 1.28 gpf (4.8 lpf)
  - Durable metal right-hand Polished Chrome trip lever
  - 2-1/8" (54 mm) fully glazed trapway
  - Easy-to-service silicone seal
  - Sanitary guard where bowl and tank meet for ease of cleaning
  - Encapsulated bolts prevent rust and corrosion
  - Combination consists of the K-25078-SS bowl and K-25100-RA tank
- Technology**
- Single-flush gravity uses the force of gravity and a precision engineered tank, bowl, and trapway to create a strong siphon during flushing
  - Class Five® flushing technology offers virtually plug-free performance and rinsing power for a clean bowl
  - Class Five® canister allows water to flow out of the tank from all sides (360 degrees), increasing the power and effectiveness of the flush
  - Flush valve's 3:2 ratio harnesses the natural force of gravity and optimizes flush performance
  - Durable canister design has 90% less exposed seal material than a 3" flapper for leak-free performance
- Installation**
- Three-bolt quick-connect installation
  - Standard 12" (305 mm) rough-in
  - Seal and supply line sold separately
- Recommended Products/Accessories**
- K-7637 Angle Supply with Stop (angle)
  - K-20110 Brevia™ Quiet-Close™ elongated toilet seat
  - K-4602-A Luxura™ Elongated toilet seat with antimicrobial agent
  - K-5400 Low-Profile Bolt Caps
  - K-23726 Drain treatment
- Included Components**
- Product consists of:
- 1-800-4KOHLER (1-800-456-4537)
- Kohler Co. reserves the right to make revisions without notice to product specifications. For the most current Specification Sheet, go to [www.kohler.com](http://www.kohler.com). 3-5-2023 01-10 - US/



ADA CSA B651 OBC

**Codes/Standards**  
ASME A112.19.2/CSA B45.1  
DOE - Energy Policy Act 1992  
EPA WaterSense®  
California Energy Commission (CEC)  
ADA  
ICC/ANSI A117.1  
CSA B651  
OBC

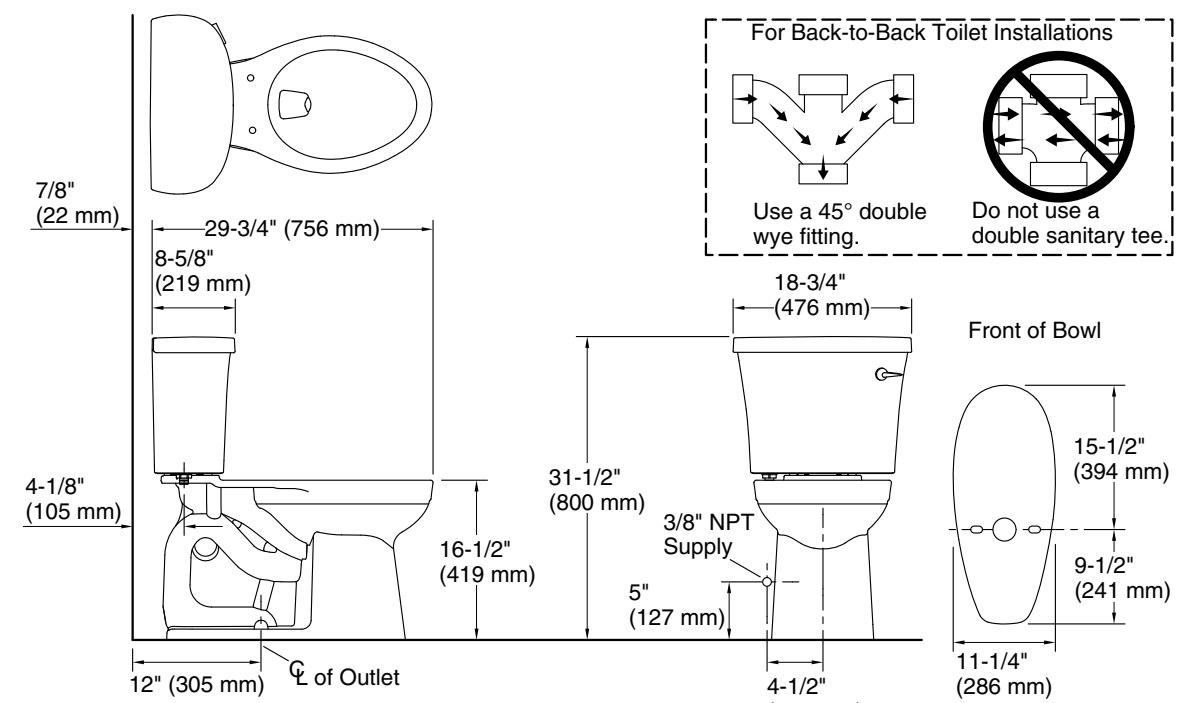
**KOHLER® Toilets and Seats Limited Warranty**  
See website for detailed warranty information.

**Available Colors/Finishes**  
Color lines intended for reference only.

**Color Code Description**

Color	Code	Description
CP	0	White

KOHLER



**Technical Information**  
All product dimensions are nominal.  
Toilet type: Floor-mount  
Waste Outlet: Floor  
Bowl shape: Elongated  
Flush type: Class Five Single-Flush  
Trap passageway: 2-1/8" (54 mm)  
Water surface size: 10-5/8" x 6-15/16" (269 mm x 176 mm)  
Rim to water surface: 5-5/8" (143 mm)  
Rough-in: 12" (305 mm)  
Seat-mounting holes: 5-1/2" (140 mm)

**Notes**  
Install this product according to the installation instructions.  
For back-to-back toilet installations: Use only a 45° double wye fitting.  
ADA, OBC, CSA B651 compliant when installed to the specific requirements of these regulations.  
Plumbing codes may require elongated toilets and elongated, open-front seats in public bathrooms.  
Accessibility standards may require controls to be located on the open side of the toilet.

1-800-4KOHLER (1-800-456-4537)  
Kohler Co. reserves the right to make revisions without notice to product specifications. For the most current Specification Sheet, go to [www.kohler.com](http://www.kohler.com). 3-5-2023 01-10 - US/

KOHLER

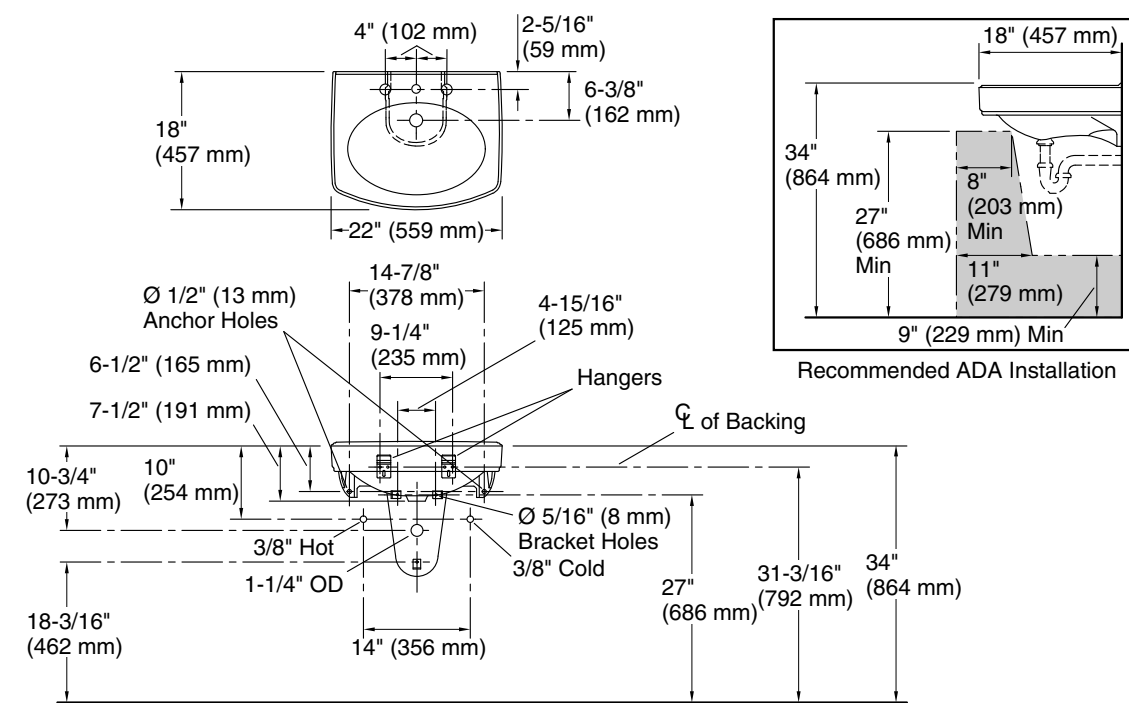
- Features**
- 8" (203 mm) widespread faucet holes
  - Oval basin
  - Overflow drain
  - Combination consists of the K-2028-8 sink and the K-2057
- Material**
- Vitreous china
- Installation**
- Wall-mount
- Recommended Products/Accessories**
- K-7655-P Angle Supply with Stop (pair)
  - K-8999-P-Trap
  - K-23726 Drain treatment
  - K-23725 Cast Iron cleaner
- Included Components**
- Additional Components:
- 2028-8
  - 2057
  - Hanger(s)
  - Rubber pads
  - shroud accessory pack
- ADA OBC**  
**Codes/Standards**  
ASME A112.19.2/CSA B45.1  
ADA  
ICC/ANSI A117.1  
OBC
- KOHLER® One-Year Limited Warranty**  
See website for detailed warranty information.
- Available Colors/Finishes**  
Color lines intended for reference only.
- Color Code Description**
- | Color | Code | Description |
|-------|------|-------------|
| CP    | 0    | White       |



ADA OBC  
**Codes/Standards**  
ASME A112.19.2/CSA B45.1  
ADA  
ICC/ANSI A117.1  
OBC

**KOHLER® One-Year Limited Warranty**  
See website for detailed warranty information.

KOHLER



**Technical Information**  
All product dimensions are nominal.  
Bowl configuration: Single  
Installation: Wall-mount  
Center(s): 8  
Bowl area (Only): Length: 18" (457 mm)  
Width: 12" (305 mm)  
Water depth: 4" (102 mm)  
Number of deck holes: 3  
Faucet hole spacing: 8" (203 mm)  
Faucet hole(s): 1-3/8" (35 mm)  
Drain hole: 1-3/4" (44 mm)

**Notes**  
Install this product according to the installation instructions.  
ADA, OBC compliant when installed to the specific requirements of these regulations.

1-800-4KOHLER (1-800-456-4537)  
Kohler Co. reserves the right to make revisions without notice to product specifications. For the most current Specification Sheet, go to [www.kohler.com](http://www.kohler.com). 3-9-2023 22-38 - US/CA

KOHLER Faucets

Single-handle bathroom sink faucet, 1.2 gpm K-98146-4

- Features**
- Single lever handle allows for both volume and temperature control
  - Includes metal pop-up drain with 1-1/4" tailpiece
  - KOHLER ceramic disc valves exceed industry longevity standards for a lifetime of durable performance
  - Single control bathroom sink faucet with 6" optional resolutech plate included
  - 1.2 gpm (4.5 lpm) maximum flow rate at 60 psi (4.14 bar)
- Material**
- Premium metal construction for durability and reliability
  - KOHLER finishes resist corrosion and tarnishing
- Installation**
- For single-hole or 4" (102 mm) centerset installation (resolutech plate included)
  - Preattached flexible supply lines simplify installation
  - 4-3/8" (111 mm) spout reach
- Recommended Products/Accessories**
- K-23726 Drain treatment
  - K-23723 Faucet cleaner



ADA CSA B651 OBC

**Codes/Standards**  
ASME A112.18.1/CSA B125.1  
NSF/ANSI/CAN 61  
NSF/ANSI/CAN 372  
All applicable US Federal and State material regulations  
DOE - Energy Policy Act 1992  
EPA WaterSense®  
California Energy Commission (CEC)  
ADA  
ICC/ANSI A117.1  
CSA B651  
OBC

**KOHLER® Faucet Lifetime Limited Warranty**  
See website for detailed warranty information.

**Available Colors/Finishes**  
Color lines intended for reference only.

**Color Code Description**

Color	Code	Description
CP	Polished Chrome	

1-800-4KOHLER (1-800-456-4537)  
Kohler Co. reserves the right to make revisions without notice to product specifications. For the most current Specification Sheet, go to [www.kohler.com](http://www.kohler.com). 5-30-2023 02-12 - US/CA/MX

KOHLER Faucets

Single-hole Bathroom Sink Faucet K-98146-4

- Features**
- Single lever handle allows for both volume and temperature control
  - Includes metal pop-up drain with 1-1/4" tailpiece
  - KOHLER ceramic disc valves exceed industry longevity standards for a lifetime of durable performance
  - Single control bathroom sink faucet with 6" optional resolutech plate included
  - 1.2 gpm (4.5 lpm) maximum flow rate at 60 psi (4.14 bar)
- Material**
- Premium metal construction for durability and reliability
  - KOHLER finishes resist corrosion and tarnishing
- Installation**
- For single-hole or 4" (102 mm) centerset installation (resolutech plate included)
  - Preattached flexible supply lines simplify installation
  - 4-3/8" (111 mm) spout reach
- Recommended Products/Accessories**
- K-23726 Drain treatment
  - K-23723 Faucet cleaner



ADA CSA B651 OBC

**Codes/Standards**  
ASME A112.18.1/CSA B125.1  
NSF/ANSI/CAN 61  
NSF/ANSI/CAN 372  
All applicable US Federal and State material regulations  
DOE - Energy Policy Act 1992  
EPA WaterSense®  
California Energy Commission (CEC)  
ADA  
ICC/ANSI A117.1  
CSA B651  
OBC

**KOHLER® Faucet Lifetime Limited Warranty**  
See website for detailed warranty information.

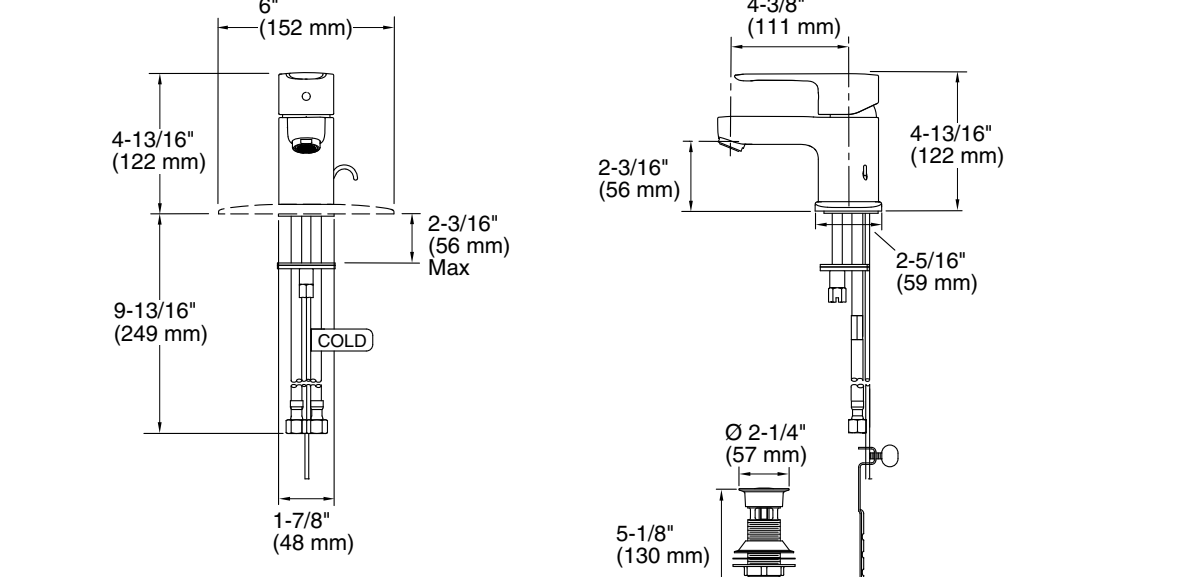
**Available Colors/Finishes**  
Color lines intended for reference only.

**Color Code Description**

Color	Code	Description
CP	Polished Chrome	

1-800-4KOHLER (1-800-456-4537)  
Kohler Co. reserves the right to make revisions without notice to product specifications. For the most current Specification Sheet, go to [www.kohler.com](http://www.kohler.com). 3-5-2023 01-10 - US/CA/MX

KOHLER Faucets



**Technical Information**  
All product dimensions are nominal.  
**Faucet:**  
Flow rate: 1.2 gal/min (4.5 l/min)  
Pressure: 60 psi (4.1 bar)  
Drain included: Yes  
**Spout:**  
Spout reach: 4-3/8" (111 mm)

**Notes**  
Install this product according to the installation instructions.  
ADA, OBC, CSA B651 compliant when installed to the specific requirements of these regulations.

1-800-4KOHLER (1-800-456-4537)  
Kohler Co. reserves the right to make revisions without notice to product specifications. For the most current Specification Sheet, go to [www.kohler.com](http://www.kohler.com). 3-5-2023 01-10 - US/CA/MX

KOHLER Faucets

- Features**
- Includes Purist™ 1.75-gpm multifunction handshower, 60" metal hose, 30" slider and contemporary slider bar trim
  - Multifunction showerhead and handshower each have advanced spray engines to provide three experiences: full coverage, pulsating massage, and silk spray
  - Full coverage spray produces an encompassing spray ideal for everyday use
  - Pulsating massage spray targets sore muscles to ease aches and pains
  - Silk spray releases a dense, luxurious spray ideal for rinsing
  - Thumb tab allows for a smooth transition between sprays
  - Combination of balance, weight, grip, and angle makes this handshower comfortable and easy to use
  - MasterClean™ sprayface features an easy-to-clean surface that withstands mineral buildup
  - 1.75 gpm (6.6 lpm) flow rate
  - 30" slider features adjustable mounting brackets for installation flexibility
  - Coordinates with Purist™, Siliness™, and Composed™ faucets and accessories
  - Features a nonpositive shutoff: water-saving pause mode to temporarily reduce water flow
- Material**
- KOHLER finishes resist corrosion and tarnishing
- KOHLER® Faucet Lifetime Limited Warranty**  
See website for detailed warranty information.
- Available Colors/Finishes**  
Color lines intended for reference only.
- Color Code Description**
- | Color | Code                   | Description |
|-------|------------------------|-------------|
| CP    | Polished Chrome        |             |
| BN    | Vibrant Brushed Nickel |             |
| BL    | Matte Black            |             |

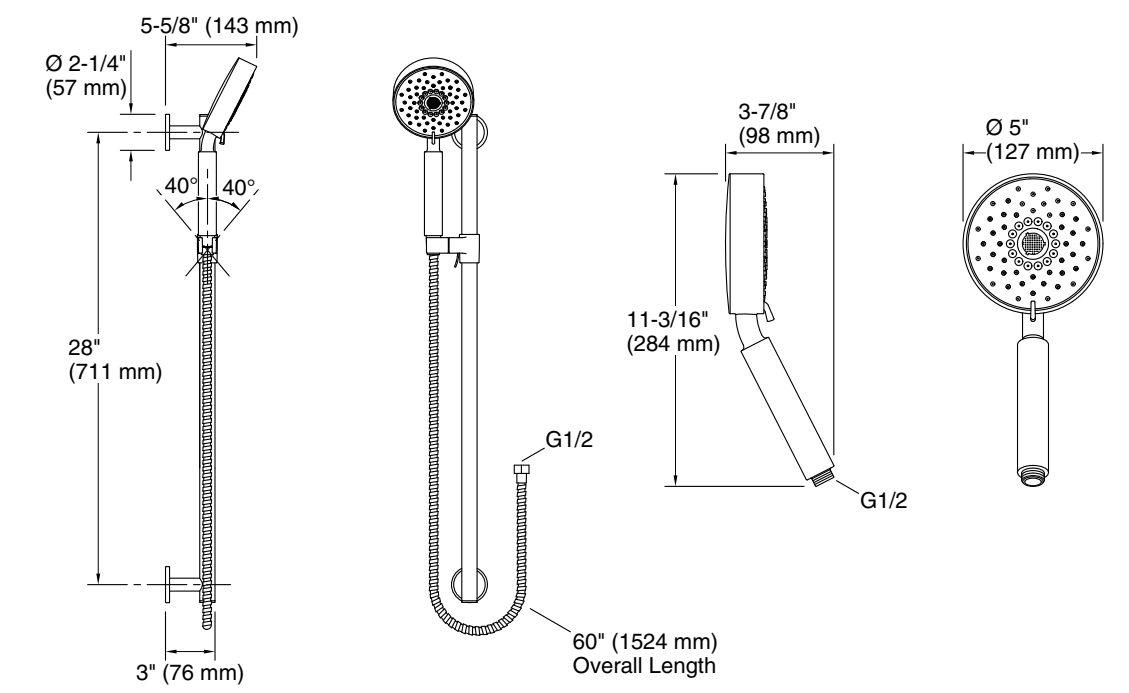


ADA  
**Codes/Standards**  
ASME A112.18.1/CSA B125.1  
DOE - Energy Policy Act 1992  
EPA WaterSense®  
California Energy Commission (CEC)  
ADA  
ICC/ANSI A117.1

**KOHLER® Faucet Lifetime Limited Warranty**  
See website for detailed warranty information.

1-800-4KOHLER (1-800-456-4537)  
Kohler Co. reserves the right to make revisions without notice to product specifications. For the most current Specification Sheet, go to [www.kohler.com](http://www.kohler.com). 3-5-2023 20-43 - US/CA

KOHLER Faucets



**Technical Information**  
All product dimensions are nominal.  
**Handshower:**  
Rated maximum flow: 1.75 gal/min (6.6 l/min)  
Pressure: 45 psi (3.1 bar)

**Notes**  
Install this product according to the installation instructions.  
IMPORTANT: The slide bar must be mounted to stud framing supports at both the top and bottom mounting locations. Plastic wall anchors will not support the slide bar. Do not use or depend on plastic wall anchors to attach the slide bar.  
Plumbing codes may require that an atmospheric vacuum breaker be installed in-line to handshowers. Consult with local codes. ADA compliant when installed to the specific requirements of these regulations.

1-800-4KOHLER (1-800-456-4537)  
Kohler Co. reserves the right to make revisions without notice to product specifications. For the most current Specification Sheet, go to [www.kohler.com](http://www.kohler.com). 4-5-2023 20-43 - US/CA

SEE A-209 FOR ADDITIONAL PLUMBING PRODUCTS

REVISIONS	DATE	BY
CHECK SET	18 OCT 21	REC
CHECK SET	7 DEC 21	REC
STRUCT REV & ACCESS. RSTRM	30 MAR 23	REC
EDIT / CLARIFY PER CLIENT	15 JUN 23	REC
REVISE PER V.C. B&S	23 AUG 23	REC
REVISE PER V.C. B&S	15 SEP 23	REC

ROY E COLBERT

ARCHITECTURE  
PLANNING  
DESIGN

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CALIFORNIA C12050  
N.C.A.R.B.  
[www.roycolbertarchitect.com](http://www.roycolbertarchitect.com)

This project has been designed by me, or under my direct supervision.

PROJECT  
INTERIOR RENOVATION  
Fire Station 41  
1910 Church Street  
Simi Valley, CA 93065

OWNER  
Ventura County Fire Dept.  
165 Durley Avenue  
Camarillo, CA 93010

PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM  
\_NOT USED

CIVIL ENGINEER  
\_NOT USED

STRUCTURAL ENGINEER  
CORRIE PUTNEY, P.E.  
engineercorrie@gmail.com  
805 / 901 2078

ELECTRICAL ENGINEER  
\_NOT USED

MECHANICAL ENGINEER  
\_NOT USED

LANDSCAPE ARCHITECT:  
\_NOT USED

WATER SYSTEM / FIRE PROTECTION SYSTEM  
\_NOT USED

PRODUCTS

SHEET NAME

DATE

AS SHOWN  
SCALE

R 21 - 011  
PROJECT

A-SPEC 3  
SHEET NUMBER OF 18 SHEETS



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BOBRICK

REVERSIBLE  
SOLID PHENOLIC  
FOLDING SHOWER SEAT

B-5181

Technical Data

Shower seat folds up against wall when not in use. The spring at the top of the baseplate holds seat in upright position until released by pulling the top of the seat away from the wall. Bobrick Folding Shower Seats are not spring loaded. The seats do not return automatically to the upright position after use. Mounting flanges and guide bracket allow for varying mounting heights and leave the floor clear for easy cleaning. Nonporous solid phenolic seat has slots to permit water to drain, does not splinter or require oiling, and will not support growth of bacteria. Stainless round-head carriage bolts and acorn nuts provide additional safety to user. Bobrick shower seats, when properly installed, have sufficient strength to support 360 lbs., (163 kg) complying with accessible design guidelines (including ADAAG in the U.S.A.).

**INSTALLATION:**  
**Installation to Wall:** Secure unit to wall at points indicated by an S, with the two mounting flanges located at top and the baseplate and guide bracket below. The bottom of the support tube must be positioned within the baseplate and guide bracket before they are secured to wall. Mounting height of shower seat must comply with local building codes.  
For stud walls, provide concealed backing to comply with local building codes and secure with #14 x 2 1/2" (6.3 x 65mm) stainless steel sheet metal screws furnished by manufacturer.  
For prefabricated shower stalls, provided adequate backing by the shower stall manufacturer. Secure with #14 x 2 1/2" (6.3 x 65mm) stainless steel mounting screws furnished by manufacturer. Bobrick offers a mounting kit for installing shower seats. For additional mounting kits please contact 800-330-3330. One mounting kit is required for each flange.  
For masonry walls, provide fiber plugs or expansion shields for use with furnished screws, or provide 1/4" (6mm) toggle bolts or expansion bolts.  
**INSTALL SAFETY PLATE TO WALL:**  
Safety Plate is to be mounted on wall near Shower Seat in order to properly advise users of the Seat's weight restrictions. Correct installation of the Safety Plate will ensure that the Shower Seat meets A.N.S.I. Standards.  
Permanently affix Safety Plate to wall on either side of the Shower Seat at a minimum height of 30" (760mm). If mounted above Seat, the Plate must be high enough so that it is not covered when Seat is on the up position. Mounting screws (4) are recommended, but double-sided tape on rear of Plate may be used for very smooth, non-porous surfaces.

**SAFETY WARNING:** Shower seats are no stronger than the anchors and walls to which they are attached and must be firmly secured in order to support the loads for which they are intended. Consult and comply with local building codes. To avoid potential injury, the building owner or maintenance personnel should remove the shower seat from service if the shower seat is not adequately secured to the wall. Unit shall support static loads of up to 360 lbs (163 kg) when properly installed and used. To avoid potential seat malfunction, DO NOT use seat if weight exceeds 360 lbs (163 kg).

**How to Reverse Shower Seat:** The solid phenolic shower seat surface may be positioned on the stainless steel frame with the longer 20 1/8" (508mm) side on the left or right. The repositioning of the shower seat surface may be done on the frame before installation on the wall, or after the unit has been installed.  
If repositioning the seat surface before installation of the unit on the wall, place entire unit on a horizontal surface; remove carriage bolts and acorn nuts (4); turn seat over reversing position of long and short ends; reinstall carriage bolts and acorn nuts.  
If repositioning the seat surface after the unit has been installed on the wall, lower folding seat to horizontal position; remove carriage bolts and acorn nuts (4); turn seat over reversing position of long and short ends; reinstall carriage bolts and acorn nuts.  
**Important Notes:** Support square frame tubes when loosening and removing carriage bolts and acorn nuts; the square frame tubes may separate from the round tubes that support the solid phenolic shower seat. If square and round frame tubes come apart when solid phenolic shower seat is removed, reassemble by placing round frame tube ends in the round holes on the sides of the square frame tubes.

**SPECIFICATION:**  
Reversible folding shower seat shall have a frame constructed of Type-304, satin finish stainless steel that consists of 16-gauge (1.6mm), 1 1/4" (30mm) square tubing and 16-gauge (1.2mm), 1" (25mm) diameter seamless tubing. Seat shall be one-piece, 1 7/8" (48mm) thick, solid phenolic with matte-finish, antique white-colored, melamine surfaces and black phenolic-resin core — cannot delaminate. Integral slots for water drainage. Secured to frame with stainless steel carriage bolts and acorn nuts. Reversible for left- or right-hand installation in the field.  
Frame — 184, Type-304, stainless steel with satin finish. 16-gauge (1.6mm), 1 1/4" (30mm) square tubing and 16-gauge (1.2mm), 1" (25mm) diameter seamless tubing.  
Mounting Flange (2) — 184, Type-304, 5/16" (8mm) thick stainless steel with satin finish. 3" (76mm) diameter with three mounting screw holes.  
Baseplate — 184, Type-304, heavy-gauge stainless steel.  
Spring — 17 1/2, Type-301, 24-gauge (0.6mm) stainless steel. Spot-welded to baseplate.  
Guide Bracket — 184, Type-304, 16-gauge (1.6mm) stainless steel with satin finish.

continued...

The illustrations and descriptions herein are applicable to production as of the date of this Technical Data Sheet. The manufacturer reserves the right to, and does hereby give notice, make changes and improvements in design and dimensions.

1/8" (3.2mm) Series E Printed in U.S.A. ©2018 by Bobrick Washroom Equipment, Inc.

Whirlpool Model: WCE55US4HB

24-inch Compact Electric Ceramic Glass Cooktop

Color Black

**Product Description**  
Cook all your family's favorites and clean up quick with a compact cooktop designed to make the most of your kitchen space and medline routine. Get added flexibility when installing with 30 & 40 amp compatibility, or while cooking with the FlexHeat2 dual radiant element. When dinner's done, a ceramic glass cooktop makes it easy to wipe away messes.

<b>Specifications</b>	
<b>Compatibility</b>	
Connectivity	No
Works With	No
<b>Dimensions</b>	
Depth	23-3/4
Height	5.0
<b>Controls</b>	
Location of Controls	Right Side
<b>Dimensions</b>	
Gross Weight	46.000
<b>Refinements</b>	
Features	ADA Compliant
<b>Cooktop Details</b>	
Heating Element On	Yes
Cooktop Surface Material	Glass
Left Front Element-Burner	Standard
Left Rear Element-Burner	1800W
Right Front Element-Burner	2500W
Right Rear Element-Burner	Standard
Left Front Element-Burner	1200W
<b>Key Features</b>	
Smart Space Solution	
FlexHeat2 Dual Radiant Element	
Easy-Wipe Ceramic Glass Cooktop	
30 & 40 Amp Installation	
Dishwasher-Safe Knobs	
Hot Surface Indicator Light	
Wall Oven Compatible	
8" Extra Element	
9" Extra Element	
ADA compliant	
#1 Selling Appliance Brand in the U.S.A.	

**OPERATION:**  
Shower seat folds up against wall when not in use. The spring at the top of the baseplate holds seat in upright position until released by pulling the top of the seat away from the wall. Bobrick Folding Shower Seats are not spring loaded. The seats do not return automatically to the upright position after use. Mounting flanges and guide bracket allow for varying mounting heights and leave the floor clear for easy cleaning. Nonporous solid phenolic seat has slots to permit water to drain, does not splinter or require oiling, and will not support growth of bacteria. Stainless round-head carriage bolts and acorn nuts provide additional safety to user. Bobrick shower seats, when properly installed, have sufficient strength to support 360 lbs., (163 kg) complying with accessible design guidelines (including ADAAG in the U.S.A.).

**INSTALLATION:**  
**Installation to Wall:** Secure unit to wall at points indicated by an S, with the two mounting flanges located at top and the baseplate and guide bracket below. The bottom of the support tube must be positioned within the baseplate and guide bracket before they are secured to wall. Mounting height of shower seat must comply with local building codes.  
For stud walls, provide concealed backing to comply with local building codes and secure with #14 x 2 1/2" (6.3 x 65mm) stainless steel sheet metal screws furnished by manufacturer.  
For prefabricated shower stalls, provided adequate backing by the shower stall manufacturer. Secure with #14 x 2 1/2" (6.3 x 65mm) stainless steel mounting screws furnished by manufacturer. Bobrick offers a mounting kit for installing shower seats. For additional mounting kits please contact 800-330-3330. One mounting kit is required for each flange.  
For masonry walls, provide fiber plugs or expansion shields for use with furnished screws, or provide 1/4" (6mm) toggle bolts or expansion bolts.  
**INSTALL SAFETY PLATE TO WALL:**  
Safety Plate is to be mounted on wall near Shower Seat in order to properly advise users of the Seat's weight restrictions. Correct installation of the Safety Plate will ensure that the Shower Seat meets A.N.S.I. Standards.  
Permanently affix Safety Plate to wall on either side of the Shower Seat at a minimum height of 30" (760mm). If mounted above Seat, the Plate must be high enough so that it is not covered when Seat is on the up position. Mounting screws (4) are recommended, but double-sided tape on rear of Plate may be used for very smooth, non-porous surfaces.

**SAFETY WARNING:** Shower seats are no stronger than the anchors and walls to which they are attached and must be firmly secured in order to support the loads for which they are intended. Consult and comply with local building codes. To avoid potential injury, the building owner or maintenance personnel should remove the shower seat from service if the shower seat is not adequately secured to the wall. Unit shall support static loads of up to 360 lbs (163 kg) when properly installed and used. To avoid potential seat malfunction, DO NOT use seat if weight exceeds 360 lbs (163 kg).

**How to Reverse Shower Seat:** The solid phenolic shower seat surface may be positioned on the stainless steel frame with the longer 20 1/8" (508mm) side on the left or right. The repositioning of the shower seat surface may be done on the frame before installation on the wall, or after the unit has been installed.  
If repositioning the seat surface before installation of the unit on the wall, place entire unit on a horizontal surface; remove carriage bolts and acorn nuts (4); turn seat over reversing position of long and short ends; reinstall carriage bolts and acorn nuts.  
If repositioning the seat surface after the unit has been installed on the wall, lower folding seat to horizontal position; remove carriage bolts and acorn nuts (4); turn seat over reversing position of long and short ends; reinstall carriage bolts and acorn nuts.  
**Important Notes:** Support square frame tubes when loosening and removing carriage bolts and acorn nuts; the square frame tubes may separate from the round tubes that support the solid phenolic shower seat. If square and round frame tubes come apart when solid phenolic shower seat is removed, reassemble by placing round frame tube ends in the round holes on the sides of the square frame tubes.

**SPECIFICATION:**  
Reversible folding shower seat shall have a frame constructed of Type-304, satin finish stainless steel that consists of 16-gauge (1.6mm), 1 1/4" (30mm) square tubing and 16-gauge (1.2mm), 1" (25mm) diameter seamless tubing. Seat shall be one-piece, 1 7/8" (48mm) thick, solid phenolic with matte-finish, antique white-colored, melamine surfaces, and black phenolic-resin core; secured to frame with stainless steel carriage bolts and acorn nuts. Seat shall be reversible for left- or right-hand installation in the field. Shower seat shall be equipped with two 3" (76mm) diameter mounting flanges constructed of Type-304, 5/16" (8mm) thick, satin-finish stainless steel; a guide bracket constructed of Type-304, 16-gauge (1.6mm), stainless steel; and a spring constructed of Type-301, 24-gauge (0.6mm) stainless steel that is spot-welded to a baseplate of Type-304, heavy-gauge stainless steel. Seat shall remain in upright position when not in use. Shower seat shall comply with accessible design guidelines (including ADAAG in the U.S.A.).

**Reversible Folding Shower Seat shall be Model B-5181 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.**

The illustrations and descriptions herein are applicable to production as of the date of this Technical Data Sheet. The manufacturer reserves the right to, and does hereby give notice, make changes and improvements in design and dimensions.

1/8" (3.2mm) Series E Printed in U.S.A. ©2018 by Bobrick Washroom Equipment, Inc.

## MECHANICAL FAUCETS

### 897-RCF Manual Faucets

Product Type  
Wall Mounted 8" Body, Adjustable Arms 7-5/8" - 8-3/8" Hot and Cold Water Sink Faucet

- Features & Specifications
- L 8" Body, Adjustable Arms 7-5/8" - 8-3/8"
  - L 2-3/8" Vandal Proof Lever Handle
  - L Ceramic 1/4 Turn Operating Cartridge
  - L 1/2" NPT Adjustable Female Union Hot Supply Arms
  - L 3/4" Male Hose Thread Outlet
  - L Round Wall Escutcheons
  - L Integral Stop Valves for Servicing the product
  - L Vacuum Breaker Spout with Pull Hook and Wall Bracket
  - L Atmospheric Vacuum Breaker, Not Intended for Continuous Pressure Applications
  - L CPNW Item Ships in 3 Days

Performance Specification

- L Rated Operating Pressure: 20-125 PSI
- L Rated Operating Temperature: 40-140°F

Warranty

- L Lifetime Limited Faucet Warranty
- L 5-Year Limited Cartridge Warranty
- L 1-Year Limited Finish Warranty

Codes & Standards

- L ASME A112.18.1/CSA B101.1
- L ADA ANSI/CES A117.1



Last Revision: 05/10/2018 L Date Printed: 06/28/2018 L Product specifications subject to change without notice



### 897-RCF Manual Faucets

Architect/Engineer Specification

Chicago Faucets No. 897-RCF, Sink Faucet for hot and cold water, wall-mounted with 7-5/8" - 8-3/8" adjustable centers. Rough chrome plated. Vacuum breaker spout with pull hook and wall brace. 2-3/8" metal, vandal-proof, lever handles with stainless-steel, tapered brass and secured blue and red index buttons. Ceramic cartridges, open and close in 90 degrees, features square, tapered stem. Adjustable supply arms include 1/2" NPT female union nut. 3/4" male hose thread outlet. Round wall escutcheons. Integral stop valves for servicing the faucet. NOTE: Atmospheric vacuum breaker is NOT needed for continuous pressure applications.



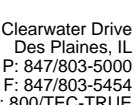
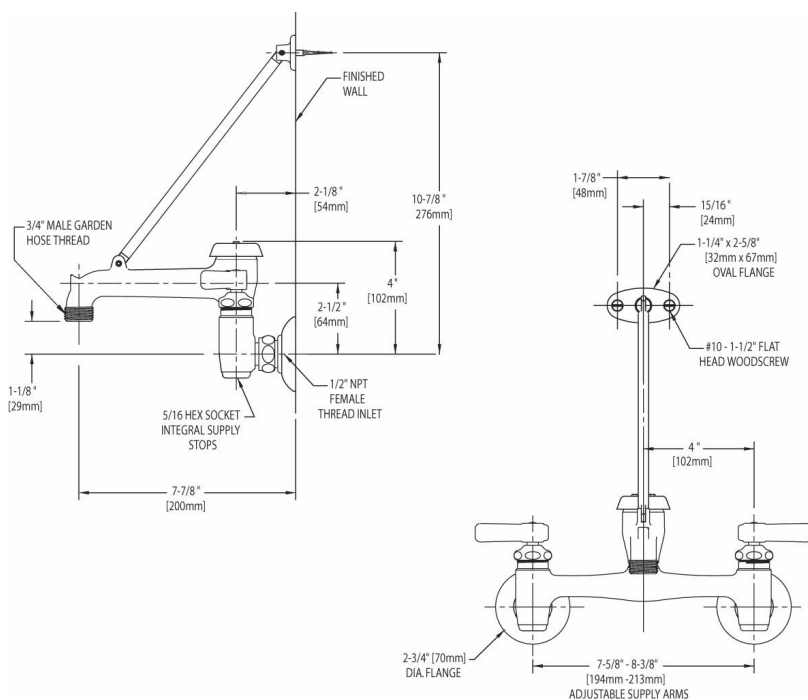
#### Operation and Maintenance

Installation should be in accordance with local plumbing codes. Flush all pipes thoroughly before installation. After installation, remove spout outlet or flow control and flush faucet thoroughly to clear any debris. Care should be taken when cleaning the product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap and warm water for cleaning and protecting the life of Chicago Faucet products. For specific operation and maintenance refer to the installation instructions and repair parts documents that are located at [www.chicago faucets.com](http://www.chicago faucets.com).

Chicago Faucets, member of the Gebert Group, is the leading brand of commercial faucets and fittings in the United States, offering a complete range of products for schools, laboratories, hospitals, office buildings, food service, airports and sports facilities. Call 1.800.TECTRUE or 1.847.803.5000 Option 1 for installation or other technical assistance.



Last Revision: 05/10/2018 L Date Printed: 06/28/2018 L Product specifications subject to change without notice



Last Revision: 05/10/2018 L Date Printed: 06/28/2018 L Product specifications subject to change without notice



### Kraus KHU100-26 Standart Pro 16 Gauge Undermount Single Bowl Kitchen Sink, 26 Inch, Stainless Steel

Visit the Kraus Store  
★★★★☆ 3,637 ratings

List Price: \$299.95 Details

Price: \$247.90

You Save: \$52.05 (17%)

Get \$50 off instantly: Pay \$197.90 upon approval for the Amazon Rewards Visa Card.

Color: Stainless Steel



Size: 26 Inch



Pattern Name: Sink



REVISIONS	DATE	BY
	CHECK SET	18 OCT 21 REC
	CHECK SET	7 DEC 21 REC
	STRUCT REV & ACCESS. RSTRM	30 MAR 23 REC
	EDIT / CLARIFY PER CLIENT	15 JUN 23 REC
	REVISE PER V.C. B&S	23 AUG 23 REC
	REVISE PER V.C. B&S	15 SEP 23 REC

## ROY E COLBERT

### ARCHITECTURE PLANNING DESIGN

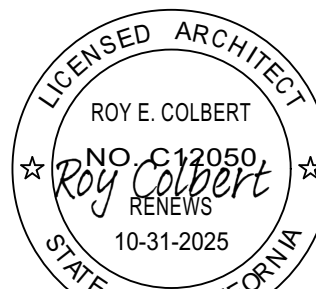
2590 EAST MAIN STREET  
SUITE 100  
VENTURA, CA 93003

805 / 650-9590 PH

rcolb@sbcglobal.net

CALIFORNIA C12050  
N.C.A.R.B.

[www.roycolbertarchitect.com](http://www.roycolbertarchitect.com)



This project has been designed by me, or  
under my direct supervision.



This set of plans and specifications MUST be kept on the job at all times and it is unlawful to make any changes or alterations on same without written permission from the Building and Safety Division, County of Ventura. The stamping of this plan and specifications SHALL NOT be held to permit or to be an approval of the violation of any provisions of any County Ordinance of State Law.  
K. LIN 09/20/2023  
Building and Safety Division

PROJECT  
**INTERIOR RENOVATION**  
Fire Station 41  
1910 Church Street  
Simi Valley, CA 93065

OWNER  
Ventura County Fire Dept.  
165 Durley Avenue  
Camarillo, CA 93010

## PROJECT DIRECTORY

SOILS ENGINEER / SEPTIC SYSTEM  
\_NOT USED

CIVIL ENGINEER  
\_NOT USED

STRUCTURAL ENGINEER  
CORRIE PUTNEY, P.E.  
engineercorrie@gmail.com  
805 / 901.2078

ELECTRICAL ENGINEER  
\_NOT USED

MECHANICAL ENGINEER  
\_NOT USED

LANDSCAPE ARCHITECT:  
\_NOT USED

WATER SYSTEM / FIRE PROTECTION SYSTEM  
\_NOT USED

## PRODUCTS

SHEET NAME

DATE

## AS SHOWN

SCALE

R 21 - 011

PROJECT

A-SPEC 4

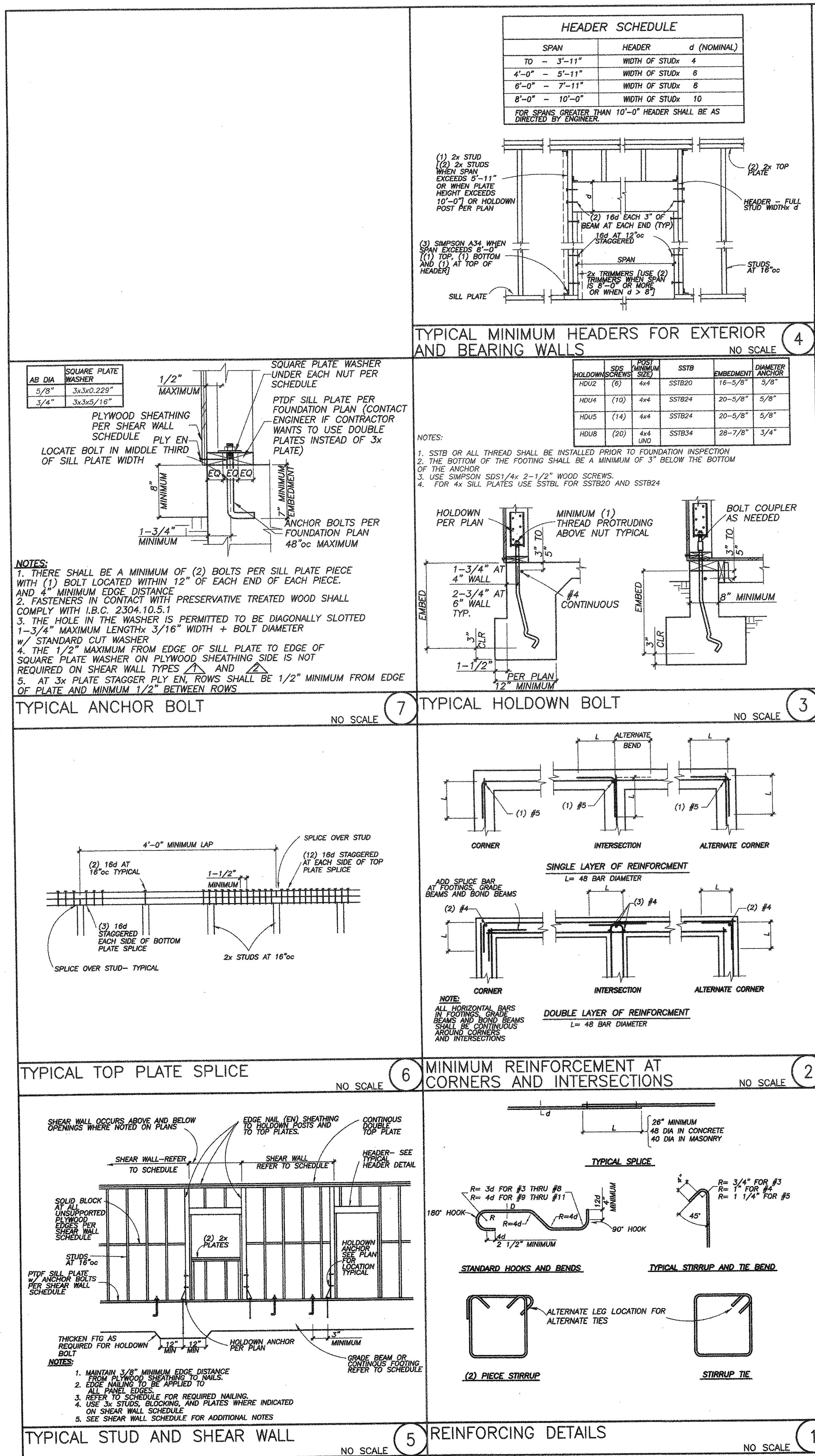
SHEET NUMBER

OF 18 SHEETS

THIS PLAN IS BASED UPON DATA COMPILED AND FURNISHED BY OTHERS.

## BUILDING & SAFETY: 2nd SUBMITTAL





## GENERAL STRUCTURAL NOTES

### 1. General

- Details shown on engineering drawings are typical, similar details apply to similar conditions, contractor shall verify existing conditions. Any existing conditions requiring construction different from that shown shall be reported to the architect or engineer immediately.
- All drawings shall be read in conjunction with architectural, mechanical and electrical and all other contract drawings and specifications.
- Dimensions shown shall take precedence over scale on plans, sections and details. Notes and detail on the drawings shall take precedence over general notes and typical details. Discrepancies shall be brought to the attention of the architect or engineer immediately.
- The contract structural drawings and specifications represent the finished structure. Unless otherwise indicated, they do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure, workmen or other persons during construction per OSHA regulations.
- Not all general notes apply, notes shall be used where applicable. The details on this sheet shall be used whenever applicable, unless noted otherwise (UNO).

### 2. Foundation Notes

- Soils Report by: NA  
Dated: NA  
File Number: NA  
This Report shall be made part of these plans.
- Foundation design is based on soils bearing pressure of 1500 psf and an expansion index of 0.5 LSW.
- All earthwork, excavations and site preparations shall be performed as per recommendations outlined in the soils report.
- Soil engineer shall inspect foundation prior to the placement of any concrete and Soil compaction report shall be provided to the building inspector at the job site prior to placement of concrete in the foundation (if soils report is noted above).

### 3. Concrete

- All Concrete work shall be performed in accordance with the current edition of the ACI 318 and the 2019 California Building Code (CBC).
- Minimum compressive strength at 28 days shall be:  
2500 psi for slabs on grade  
2500 psi for footings  
2500 psi for retaining walls  
Deputy inspection is not required unless specifically noted on details and where compressive strength exceed 2500 psi.
- Mix designs shall be submitted and approved by the Architect and Engineer prior to starting the work.
- All concrete UNO shall be regular weight hard rock type (150 pcf). Aggregates shall be natural sand and rock conforming to ASTM C33 with proven shrinkage characteristics of less than 0.05%. Aggregates for exposed exterior slabs shall conform to ASTM C289. Maximum size of aggregate is to be 1". Pea gravel is not allowed.
- Cement for all concrete shall be Type 2, Low Alkali conforming to ASTM C150. Use a minimum of 5 1/2 sacks per yard.
- Slump shall not exceed 4" but shall be greater than 2 1/2". Concrete for slabs on grade may be placed with a maximum slump of 5".
- All reinforcing steel, anchor bolts, holdown bolts, dowels and other inserts shall be securely fastened in the forms before concrete is poured. All penetrations through grade beams and all penetrations greater than 6" in diameter shall be approved by the engineer.
- Concrete slabs on grade shall be maintained in a moist condition for 7 days after placement. Alternate methods may be approved by the architect or engineer if satisfactory performance can be assured.
- Vibrate all concrete in place with a mechanical vibrator in accordance with the general provisions outlined in "309R-05: Guide for Consolidation of Concrete" by ACI Committee 309.
- Finish interior slabs with a smooth trowel. Finish exterior slabs with a light broom perpendicular to travel to provide a non-slip surface. Slabs shall be planar to within 1/8" in 10 feet.
- For post installed anchors, use Simpson SET XP Epoxy (ICC-ES ESR-2508), install per manufacturer's instructions. Special inspection is required, see note 8.

### 4. Reinforcing Steel

- Reinforcing steel shall be ASTM A615 Grade 60 for #4 bars and larger and ASTM A615 Grade 40 for #3 bars and smaller.
- Reinforcement hooks and bends shall comply with Chapter 25 of ACI & detail 11-. Bends to #6 bars and larger shall be done in a shop. Make all bends cold.
- Splices in concrete shall be 30 bar diameters (26" min.) UNO in details. Splices in masonry shall be 40 bar diameters (26" min.) UNO in details.
- Specified concrete cover for reinforcing bars for:  
(Except as noted otherwise in details)  
Footings 3"  
Slab on Grade 1 1/2"  
Retaining Wall 3" on dirt side  
2" on exposed side

### 5. Masonry

- Concrete Masonry units (CMU) shall be Grade "N" lightweight units  $f_c = 1500$  psi conforming to ASTM C90. All masonry units shall be laid true, level and plumb and in accordance with Chapter 21 of the CBC.
- Mortar shall be Type M with compressive strengths of 1250 psi at 7 days and 2500 psi at 28 days, in accordance with ASTM C270 and CBC Section 2103.2. Do not use masonry cement.
- Grout shall be in accordance with CBC 2103.3 with a compressive strength of 1250 psi at 7 days and 2000 psi at 28 days. All masonry units shall be solid grouted UNO. Consolidate all grout using an electrical mechanical vibrator. Grout lifts shall not exceed 4' without cleanouts and 6' feet with cleanouts.

### 6. Structural Steel

- All structural steel and miscellaneous metals shall conform to ASTM A36. Pipe columns shall conform to ASTM A53, Grade B. Steel Tubing shall conform to ASTM A500, Grade B. Anchor Bolts shall conform to ASTM A307, Grade A. Nuts and bolts shall conform to ASTM A325N.
- All fabricators shall submit shop drawings to the architect and engineer prior to fabrication. All fabrication and erection shall be performed in accordance with the latest AISC Specification. Steel fabricator shall field check all dimensions prior to erection for a proper fit.
- All welding and fabrication shall comply to AWS Specifications and to be performed by welders certified by local Building Official. All welding shall be performed by electric arc process as required per AWS D1.1. Welds are designed at full stress and must be performed in the shop of a licensed fabricator approved by the local Building Department.
- Continuous duty inspection is required for all field welding.
- All Structural steel not embedded in concrete and not covered by fire resistive elements shall be shop painted.
- Field cutting or burning of structural steel shall not be permitted unless written approval is obtained by the architect or engineer.

### 7. Structural Wood

- All lumber shall be Douglas Fir Larch (DF) UNO. The following grades shall be used and comply with DOC PS 20:  
Wood in contact with masonry or concrete PTDF (pressure treated) (sill plates, ledgers, nailers, etc.)  
Joists, plates, nailers, blocking and posts #2 DF or better  
3X and 4X beams #2 DF UNO  
6X beams #1 DF UNO  
2X and 3X studs #2 DF  
All lumber shall be grade marked. Structural members shall not be cut or drilled unless specifically noted or detailed. Obtain engineer's written approval for any notches or holes not detailed.
- All joists and rafters shall be solid blocked at all points of bearing. Solid blocking is required at 8'-0" on center unless continuously braced at bottom edge. Stud partitions over 10' high shall have 2x bridging, same width as stud, at midheight, but not to exceed 8'-0" on center vertically.
- Glu-laminated beams shall be fabricated by a licensed fabricator and shall have AITC certifications. Simple span glu-lams shall be a combination 24F-V4 and cantilever glu-lams shall be a combination 24F-V8.
- TJI's, Microlams and Parallams shall be manufactured by Trus-Joist. Submit shop drawings and calculations for each different joist, span and loading condition. Use 1.8E WS Microlam LVL where Microlam (ML) is called out and 2.0E WS Parallam PSL where parallam (PSL) is called out UNO. Install all joists and beams per manufacturer's specifications including all necessary stiffeners, bridging, blocking and hangers except where plans and details exceed manufacturer's recommendations. Do not notch or bore joists or beams unless written approval is obtained from engineer.
- All plywood sheathing shall be APA rated and comply with DOC PS 1 or PS 2, thicknesses are noted on plans. Use exterior glue on roof sheathing. Glue all contact surfaces at floor sheathing and use screw shank or ring shank nails. See sheathing schedule for wall sheathing requirements. Plywood machine nailing will not be accepted if nailheads penetrate outer ply or if minimum edge distances are not maintained.
- Nailing shall be in accordance with CBC Table 2304.10.1 except where nailing is exceeded in sheathing schedule and on plans and details. Where necessary to prevent splitting of wood, bore a hole 75% the diameter of the nail. Use common nails only, do not use sinkers or clipped head nails.  
8d diameter = 0.131", 10d diameter = 0.148", 16d diameter = 0.162"

### 8. Special Inspections

- In addition to regular inspections, the following checked items will also require Special Inspection in accordance with CBC Sec 1704 and 1705:
    - Soils compliance prior to foundation inspection
    - Structural Concrete over 2500 psi
    - Plywood shearwalls 2, 3, 4
    - Field Welding
    - High Strength Bolts
    - Expansion Anchors/Epoxy
    - Special Masonry
    - Piles/Caissons
    - Steel Frame
    - Metal Plate Connected Wood Trusses over 60" tall
- A report shall be given to the Building Inspector at framing inspection.

### 9. Structural Observation

- The owner shall employ the Registered Design Professional/Engineer of Record responsible for the structural design to perform structural observation per CBC Section 1704.6.
- Owner Acknowledgement \_\_\_\_\_ date \_\_\_\_\_  
Phone # \_\_\_\_\_ email \_\_\_\_\_  
Corrie Putney, PE shall be the Registered Design Professional in Responsible charge/Engineer of Record. The Building Official shall be notified in writing by the owner if the registered design professional in responsible charge is changed or is unable to continue to perform the duties.
- At significant structural stages and at the completion of the structural system, the system shall be structurally observed for general conformance to the structural plans and details. The contractor shall give the Engineer of Record 24 hours notice prior to each stage to be observed. The Engineer shall be called out at the following stages:
  - Concrete and Reinforcing Steel: After excavation and placement of reinforcing steel, anchor bolts and holdown bolts, slab reinforcement and prior to concrete pour.
  - Shearwalls and Framing: At completion of the wall framing, and shearwalls including connectors, straps and holdowns. After all plywood, beams and connectors installed.
- The Engineer of Record shall document when the structural observations were performed, any observed deficiencies that have not yet been resolved. The structural observation reports shall be submitted to the Building Department, the Architect/Designer, and the Contractor.
- Approval by the Building Department Inspector is required prior to covering the structural system. A Structural Observation report shall be given to the Building Inspector at foundation and framing inspection.



### STRUCTURAL INFORMATION:

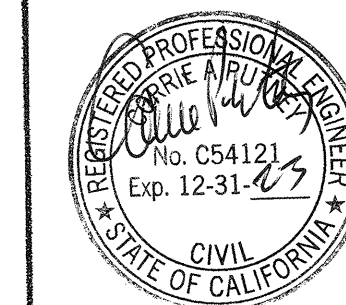
Code: 2022 Calif. Building Code (CBC)  
Loads:

	Dead	Live
Roof:	15 psf	20 psf
Risk Category:		IV
Importance Factor, Ie:		1.50
Wind Design Data:		
Basic Design Wind Speed, V:		110 mph
ASD Wind Speed, Vsd:		78 mph
Wind Exposure:		C
Seismic Design Data:		
Mapped Ss:		1.938
Mapped Si:		0.654
Ss:		1.550
Si:		0.741
Site Class: (Default see ASCE 11.4.3)		D
Seismic Design Category:		D
Basic Seismic force resisting system:		Bearing walls system - wood shearwalls
Cs:		0.3578
R:		6.5
Analysis Procedure Used:		Equivalent Lateral Force Analysis

Corrie Putney Engineer, Inc.

698 Westfield Ct.  
Ventura, CA 93004

805-901-2078  
engineercorrie@gmail.com



FIRE STATION 41  
1910 CHURCH STREET  
SIMI VALLEY, CA.



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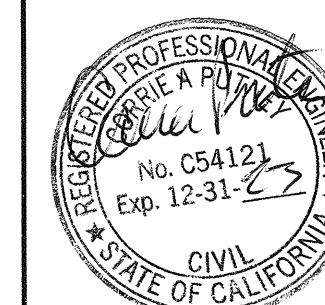
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SHEAR WALL	1/2" STRUC. PL. W/OUT, see note 2 for nail size	RIM/LG TO PL. CONN.	BOTTOM PL. CONN.	SILL PL. AND ANCHOR BOLTS	ALLOW. SHEAR see note 1
	10d @ 8" OC BN, EN 10d @ 12" OC FN	A35 @ 16" OC	2x SILL PL. w/ 16d @ 4" OC	2x FDN SILL PL. w/ 5/8" DIA. @ 48" OC	310 plf
2	10d @ 4" OC BN, EN 10d @ 12" OC FN <i>Spec. Insp. Req.</i>	A35 @ 16" OC	3x SILL PL. w/ SDS1/4" @ SCREW @ 6" OC	3x FDN SILL PL. w/ 5/8" DIA. @ 32" OC	460 plf
3	10d @ 3" OC BN, EN 10d @ 12" OC FN <i>Spec. Insp. Req.</i>	A35 @ 12" OC	3x SILL PL. w/ 3/8" DIA. LAG BOLTS @ 6" OC	3x FDN SILL PL. w/ 5/8" DIA. @ 24" OC	610 plf
	10d @ 2" OC BN, EN 10d @ 12" OC FN <i>Spec. Insp. Req.</i>	A35 @ 8" OC	3x SILL PL. w/ 1/2" DIA. @ BOLT @ 4" OC	3x FDN SILL PL. w/ 5/8" DIA. @ 16" OC	800 plf

**Shearwall Schedule Notes:**

1. Use #22 or #30 Structural Plywood (5 ply), Product Standard DCS P21 or P22 on all shearwalls or equivalent wood structural panel. Where plywood is indicated in any portion of a wall line, continue the same installation on the entire wall line, including around doors and windows. Plywood sheathing includes 0.52 force factor for Holdowns attached to inside face of end post.
2. Use common carbon steel smooth shanked nails, do not use sinkers or clipped head nails (10d common). 3"x8" dimensional box nails may be substituted (10d galv box = 3"x 0.36" head dia, 3"x12" head dia). All bolt holes in wood shall be a maximum of 1/32" to 1/16" oversized.
3. The following applies to shearwalls 2, 3 and 4:
  - A. Shearwall Periodic Special Inspection Required per IBC Sec 1705.12.2.2. The following elements of the shearwall shall be inspected: nailing, bolting, anchoring and other connections. Inspect the lateral resistance of the wall, including shearwalls, roof and floor diaphragms, drag struts, braces, shear panels and holdowns. See also note 6 in sheet S00.
  - B. Use 3x3 PTDF structural plywood sheathing and masonry at new shear wall construction. Use 3/8" diameter lag bolts to 3x minimum blocking or rim joist with 4" minimum embedment. Prefill 3/16" diameter hole for threaded shank and 3/8" diameter for unthreaded shank.
  - C. Use 3x studs at all plywood panels and replace 2x6 studs fastened with 10d staggered and spaced per shearwall RN span.
  - D. Provide 3/4" edge distance for plywood nailing, stagger nailing in double top plates, at plywood joints and at vertical joints.
  - E. Use PTDF sill plates. Sill plates shall be attached with 5/8" diameter anchor bolts embedded 7" minimum at 49°C. Use RN in shearwall schedule. There shall be a minimum of 7" nailing per sill plate plus 10d staggered and spaced per shearwall RN span. Anchor bolts shall have square plate washers 3"x22S", see detail S700.

Note that a holdown bolt does not count as an anchor bolt, see detail S100.

Holdown anchor and nut shall be tightened just prior to covering the wall framing.

Revisions in favor of Original shall prevail.

1. See sheet S0 for typical notes and details not noted.
2. Use 2x4 studs at 16"oc UNO, max. height is 10'-0". Use 2x4 studs at 8"oc, max. height is 13'.

2. See sheet S0 for typical notes and details not noted.
3. See sheet S0 for typical reinforcing laps, bends and splices.
4. Holdown anchors and anchor bolts must be tied into place by template prior to foundation inspection.
5. For all dimensions not noted, see Architectural plan.
6. Fasteners for pressure-preservative treated wood shall be one of the following:
  - A. Hot-Dip Zinc coated galvanized steel fasteners (meeting ASTM A 153) and Hot-Dip galvanized connectors (ASTM A 653 Class G185 sheet)
  - B. Stainless steel
  - C. Silicon bronze
  - D. Copper
7. Sill plates shall be attached with 5/8" diameter anchor bolts embedded 7" minimum at 48"oc, one in shearnail schedule. There shall be a minimum of 2 bolts per sole plate piece with one bolt located within 9" of each end of each piece. Anchor bolts shall have square plate washers 3" square x 0.229" at anchor bolts, see detail 7/90.
8. If Needed: Use 4" concrete slab on grade with #3 at 18"oc each way centered in slab over 2" sand over 15 mil visqueen over 2" sand over clear, 10 mil Rubarub.



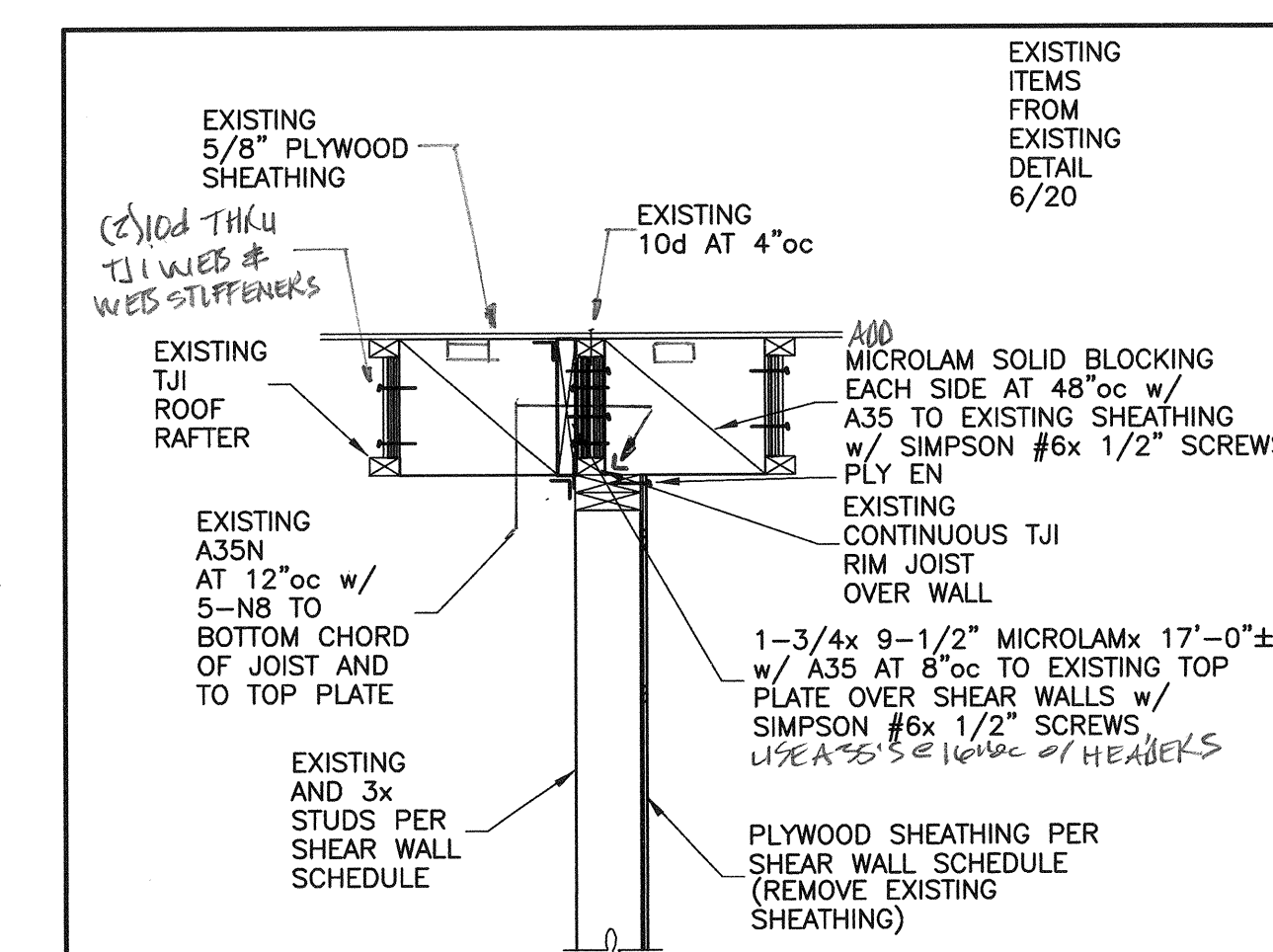
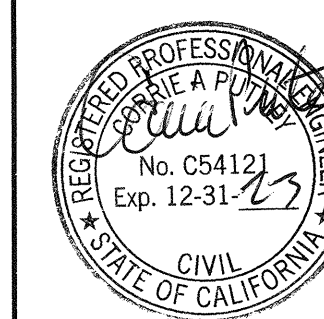




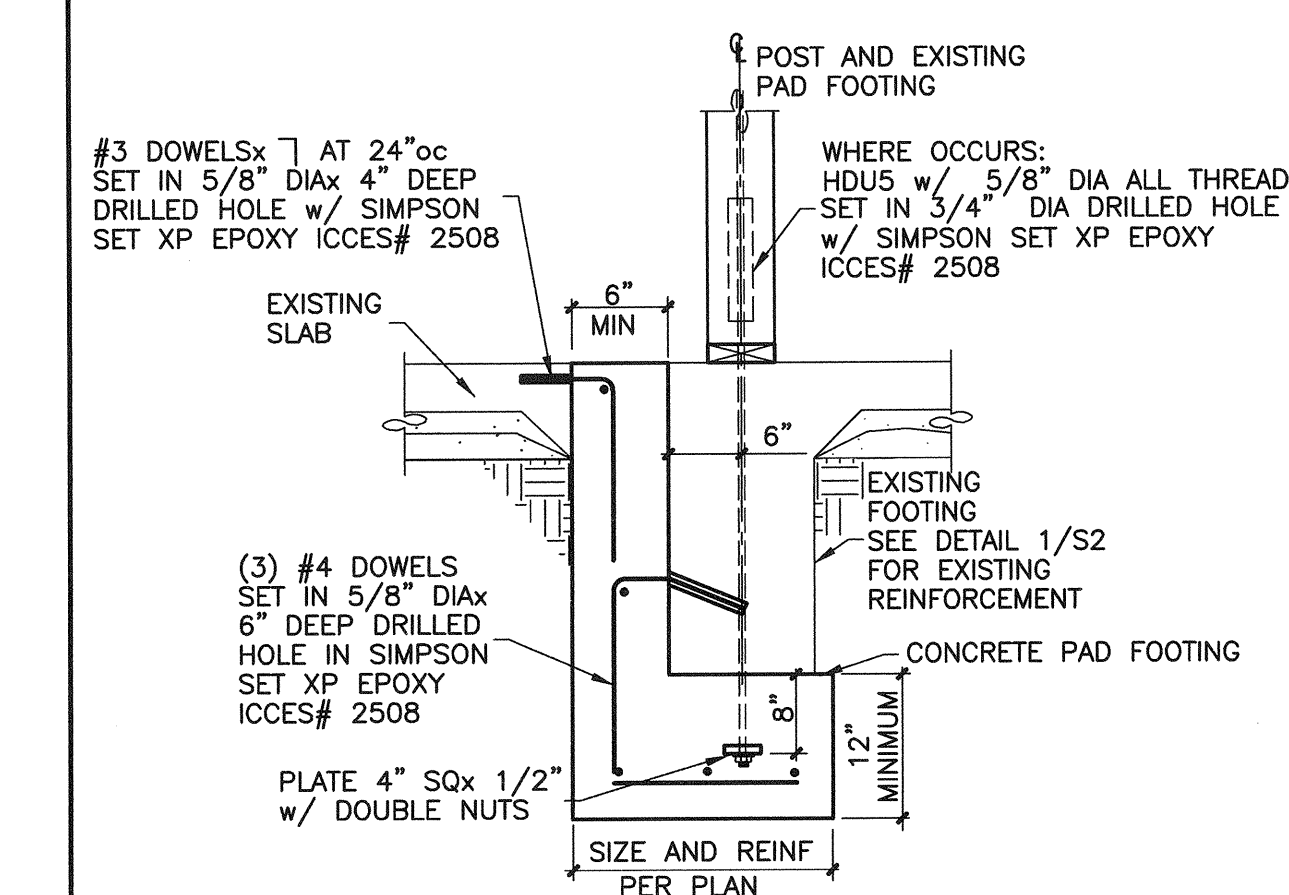
**APPROVED**

set of plans and specifications MUST be kept on the job at all times and it is unlawful to make any changes or alterations on same without written permission from the Building and Safety Division, County of Ventura. The stamping of this plan and specifications is NOT be held to permit or to be an approval of the violation or any provisions of any County Ordinance or State Law.

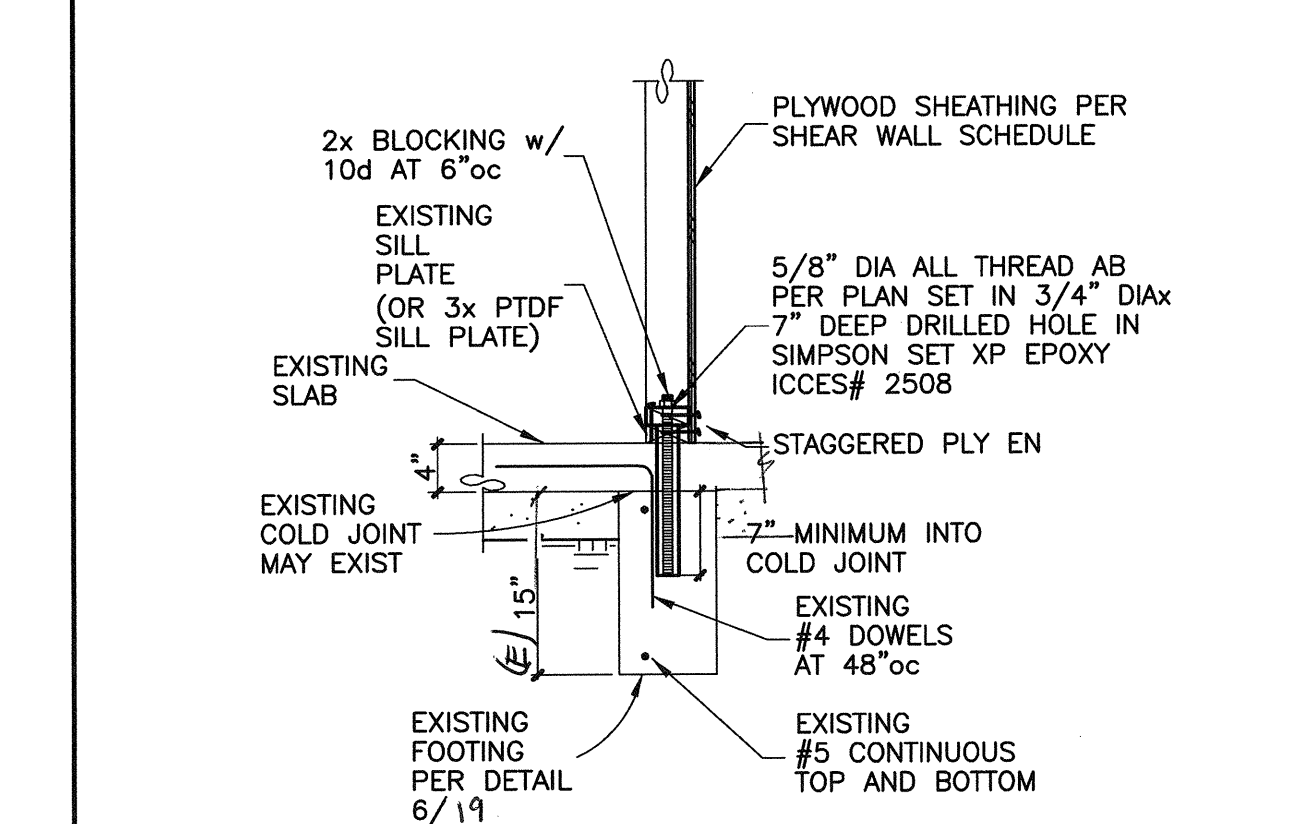
**K. LIN 09/20/2023**  
**Building and Safety Division**



JOISTS PARALLEL AT INTERIOR SHEAR WALL  
SCALE: 3/4"=1'-0" **3**



PAD FOOTING AT EXISTING FOOTING



SHEAR WALL AT EXISTING FOOTING

**FIRE STATION 41  
1910 CHURCH STREET  
SIMI VALLEY, CA.**

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JoFlo DESIGN INC.

drawn by: **J**

sheet

**S2**