

**CONTRACT DOCUMENTS  
FOR  
SENIOR CENTER KITCHEN RENOVATIONS**



**CITY OF KINGSBURG  
FRESNO COUNTY, CALIFORNIA**

**FEBRUARY 2024**



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**PETERS ENGINEERING GROUP**  
A CALIFORNIA CORPORATION

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**CONTRACT DOCUMENTS**  
**FOR**  
**SENIOR CENTER KITCHEN RENOVATIONS**

**CITY OF KINGSBURG**  
**FRESNO COUNTY, CALIFORNIA**



February 13, 2024

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David Peters, PE

Date



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## NOTICE TO CONTRACTORS

Sealed proposals will be received at the office of the City Clerk of the **City of Kingsburg, 1401 Draper Street, Kingsburg, CA 93631 until 1:30 p.m. March 5, 2024** at which time they will be publicly opened and read at said office, for construction in accordance with the specifications therefore, to which special reference is made as follows:

### SENIOR CENTER KITCHEN RENOVATIONS

The work to be done consists, in general, of kitchen improvements to the senior center as shown on the plans and described herein.

Plans and specifications applying to this project may be reviewed and purchased at: Peters Engineering Group, 862 Pollasky Avenue, Clovis, California 93612 at the non-refundable price of \$60.00 per set. Checks shall be made payable to the City of Kingsburg. Plans and specifications may also be viewed on the website of the Central California Builders Exchange and the Tulare / Kings County Builders Exchange or downloaded from the City's website. Bidders are responsible for monitoring the City's website for any project addendums and submitting the acknowledged addendums with the bid documents. Any bid proposal submitted without all addendums acknowledged will be deemed non-responsive. Planholder names may be obtained from Peters Engineering Group (559) 299-1544 or the Fresno Builders Exchange, 1244 N. Mariposa Street, Fresno, (559) 237-1831.

Inquiries regarding this project should be directed to David Peters, City Engineer at [dpeters@peters-engineering.com](mailto:dpeters@peters-engineering.com). Oral explanations or interpretations of plans and specifications are not binding. Any explanation, interpretation or clarification of plans and specifications will be in the form of a written addendum to the plans and specifications issued to plan holders of record.

Bids shall be submitted in a sealed envelope addressed to the City of Kingsburg and labeled with the name of the bidder, the name of the project and the statement "Do Not Open Until the Time of Bid Opening."

Bid security in the amount of then (10) percent of the amount of the bid, and in the form of a bid bond issued by an admitted surety insurer licensed by the California Department of Insurance, cash, cashier's check, or certified check shall accompany the bid. Bid security shall be made in favor of the City of Kingsburg.

No contract will be awarded to a contractor who has not been licensed in accordance with the provisions of the Contractors State License Law, California Business and Professions Code, Division 5, Chapter 9, as amended, or whose bid is not on the proposal form included in the contract document. A valid California Contractor's License, Class B, General Building, is required for this project.

A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

In accordance with the provisions of Section 1770 of the Labor Code, the Director of the Department of Industrial Relations of the State of California has determined the general prevailing rates of wages and employer payments for health and welfare, pension, vacation, travel time, and subsistence pay as provided for in Section 1773.8, apprenticeship or other training programs authorized by Section 3093, and similar purposes applicable to the work to be done. Said wage determinations are on file with the City Clerk and are incorporated herein by reference.

Minimum wage rates for this project have been determined by the Secretary of Labor. If there is a difference between the minimum wage rates predetermined by the Secretary of Labor and the prevailing wage rates predetermined by the Director of the Department of Industrial Relations of the State of California for similar classifications of labor, the contractor and his subcontractors shall pay not less than the higher wage rate.


Bids are required for the entire work described herein. Bids will be compared on the basis of the total of bid items in the Base Bid.

The successful bidder shall furnish a faithful performance bond in the amount of 100 percent of the contract amount and a payment bond in the amount of 100 percent of the contract amount. Said bonds shall be issued by a surety company who is an admitted surety insurer authorized by the California Department of Insurance to transact business in this state, and acceptable to the City of Kingsburg. Bidders are cautioned that representations made by surety companies will be verified with the California Department of Insurance and that the City of Kingsburg will not accept a surety company with a Best's rating of less than B.

Pursuant to Public Contract Code Section 22300, substitution of securities for any moneys withheld by the City of Kingsburg to ensure performance under the contract shall be permitted.

The City Council reserves the right to reject any or all bids.

Dated: February 13, 2024



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By: David Peters, City Engineer

**CITY OF KINGSBURG  
SENIOR CENTER KITCHEN RENOVATIONS  
SPECIAL PROVISIONS**

**SECTION 1 - SPECIFICATIONS AND DRAWINGS FOR WORK**

The work embraced herein shall be done in accordance with the 2010 State Standard Specifications and the 2010 Standard Plans of the State of California, Department of Transportation insofar as the same may apply and in accordance with the following special provisions.

In case of conflict between the Standard Specifications and these Special Provisions, the Special Provisions shall take precedence over and be used in lieu of such conflicting provisions.

For the purpose of this contract, the following interpretations shall be used in place of the terms or pronouns used throughout the Standard Specifications and defined in Section 1, Definition of Terms, of the Standard Specifications, as follows:

TERM	INTERPRETATION
State/Owner	City of Kingsburg
Department	The City Council of the City of Kingsburg
Director	City of Kingsburg City Manager
Engineer	The City Engineer of the City of Kingsburg, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.
Department of Transportation	The City of Kingsburg, Department of Public Works
Contractors	The person or persons, co-partnerships or corporation, private or municipal, who have entered into a contract with the City of Kingsburg as party or parties of the second part, or his or her legal representatives.

All work shall comply and conform to the Contract Documents and the following Drawings of the City of Kingsburg Standards and with the **SENIOR CENTER KITCHEN RENOVATIONS** plans incorporated herein by reference.

## **SECTION 2 - PROPOSAL REQUIREMENTS AND CONDITIONS**

### **GENERAL**

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

In addition to the subcontractors required to be listed in conformance with Section 2-1.33C, "Subcontractor List," of the Standard Specifications, each proposal shall have listed therein the portion of work that will be done by each subcontractor listed. A sheet for listing the subcontractors is included in the Proposal.

The form of Bidder's Bond mentioned in the last paragraph in Section 2-1.34, "Bidder's Security," of the Standard Specifications will be found following the signature page of the Proposal.

In conformance with Public Contract Code Section 7106, a Non-collusion Affidavit is included in the Proposal. Signing the Proposal shall also constitute signature of the Noncollusion Affidavit.

The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as the recipient deems appropriate. Each subcontract signed by the bidder must include this assurance.

### **SECTION 3 - AWARD AND EXECUTION OF CONTRACT**

The bidder's attention is directed to the provisions in Section 3, "Contract Award and Execution," of the Standard Specifications for the requirements and conditions concerning award and execution of the contract.

Award shall be made to the lowest responsible bidder within 60 days after opening of proposals, subject to extension for such further period as may be agreed upon between the City Council of the City of Kingsburg and the bidder concerned.

The right is reserved to reject any and all proposals.

The award of the contract, if it be awarded, will be to the lowest responsible bidder whose proposal complies with all the requirements prescribed. All Bids will be compared on the basis of the Engineer's Estimate of the quantities of work to be done.

### **SECTION 4 - BEGINNING OF WORK, TIME OF COMPLETION, LIQUIDATED DAMAGES**

Attention is directed to the provisions in Section 8-1.04 "Start of Job Site Activities," to Section 8-1.05 "Time of Completion," and to Section 8-1.10 "Liquidated Damages" of the Standard Specifications and these Special Provisions.

A preconstruction conference shall be held within 10 calendar days of contract award after which a Notice to Proceed will be immediately issued. The Contractor shall begin work within 10 days after

receiving a Notice to Proceed by the City of Kingsburg and shall diligently prosecute the same to completion before the expiration of

**40 WORKING DAYS**

from the date shown in said Notice to Proceed.

The Contractor shall pay to the City of Kingsburg the sum of

**ONE THOUSAND DOLLARS (\$1,000.00)**

per day for calendar each and every calendar days delay in finishing the work in excess of the number of working days prescribed above.

The Contractor shall not be assessed liquidated damages for delay in completion of the projects, when such delay was caused by the failure of the City of Kingsburg or the owner of the utility to provide for removal or relocation of the existing utility facilities.

**SECTION 5 - GENERAL PROVISIONS**

**5-1.01 LAWS TO BE OBSERVED**

In addition to the provisions of Section 7 - 1.012 of the Standard Specifications, the Contractor shall observe and comply with the appropriate ordinances of the City of Kingsburg.

**5-1.02 PREVAILING WAGES**

In accordance with the provisions of Section 1770 of the Labor Code, the Director of the Department of Industrial Relations of the State of California has determined the general prevailing rates of wages and employer payments for health and welfare, pension in Section 1773.8, apprenticeship or other training programs authorized by Section 3093, and similar purposes applicable to the work to be done.

Said wages are on file with the Clerk to the Kingsburg City Council, 1401 Draper St. Kingsburg, California 93631, and are incorporated herein by reference.

Copies of the wage rates may be obtained upon request from the City of Kingsburg, City Hall, 141 Draper Street, Kingsburg, California 93631. Telephone (559) 897-5821.

The Engineer shall furnish the Contractor a copy of the wage rate schedule and such copy shall be posted at the job site where it shall be available to any interested party.

Attention is also directed to Section "Federal Wage Decision" of these Special Provisions, and to the "Notice to Contractors".

**5-1.03 APPRENTICES**

Attention is directed to the provisions in Section 7-1.02A(4) of the Standard Specifications.

Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of Industrial Relations, Ex Officio The Administrator of Apprenticeship, San Francisco, California, or from the Division of Apprenticeship Standards, 2550 Mariposa St.,

Fresno, California 93721.

**5-1.04 PERMITS AND LICENSES**

Attention is directed to Section 5-1.20B(4), "Permits, Licenses, Agreements, and Certifications" of the Standard Specifications and these Special Provisions. The Contractor shall possess a business license from the City of Kingsburg prior to the start of work.

The Contractor shall also be issued a "no fee" building permit from the City of Kingsburg Public Works Department.

Full compensation for all costs involving permits, including obtaining the permits and paying all fees and charges associated therewith (including any inspection fees), shall be included in the amount bid for mobilization, and no separate payment will be made therefor.

**5-1.05 SUBCONTRACTING**

Attention is directed to the provisions in Section 5-1.13, "Subcontracting," of Contract Award and Execution, elsewhere in these special provisions.

**5-1.06 DAMAGE BY STORM, FLOOD, TIDAL WAVE OR EARTHQUAKE**

The provisions in Section 7-1.165 of the Standard Specifications shall not apply.

**5-1.07 INCREASED OR DECREASED QUANTITIES**

Attention is directed to the provisions in Section 2.02 of the City of Kingsburg Standard Specifications. The City reserves the right to increase or decrease (including total elimination of) the quantity of any bid item or portion of the work, as may be deemed necessary by the Engineer to complete this contract. No adjustment in unit price(s) will be allowed nor any additional compensation of any kind will be paid, in the event of any increase or decrease of any contract item(s), regardless of the amount of such increase or decrease, including complete deletion of any item(s).

All written requests for adjustment shall be made no later than five working days after notification by the Engineer that the item of work is complete.

**5-1.08 ARBITRATION**

The provisions in Section 9-1.22 of the Standard Specifications shall not apply.

**5-1.09 NOT USED**

**5-1.10 PUBLIC SAFETY**

Contractor shall construct project in accordance with the provisions of Section 7-1.04, "Public Safety," of the Standard Specifications.

**5-1.11 GUARANTY AND BONDS**

A material guaranty for a period of 12 months from the date of acceptance for the following items of work as designated in the proposal will be required. The guaranty shall be signed and delivered

to the Engineer before acceptance of the contract. A guaranty form for this purpose is included in the proposal.

The terms of the guarantee shall be clearly stated and shall be approved by the Engineer prior to the acceptance of the contract.

The two contract bonds required by Section 3-1.05, "Contract Bonds" of the Standard Specifications may be reduced upon completion of the contract to conform to the total amount of the contract bid prices for the items of work to be guaranteed, and this amount shall continue in full force and effect for the duration of the guaranty period. The payment bond shall not be reduced until the expiration of the time required by Section 3249 of the Civil Code.

Full compensation for furnishing the guaranty and bonds will be considered as included in the contract price or prices paid for the items of work involved and no additional compensation will be allowed therefor.

#### **5-1.12 COOPERATION**

Attention is directed to Section 5-1.20, "Coordination with Other Entities," of the Standard Specifications.

The Contractor shall cooperate with other contractors or forces that may be working in the vicinity of this project.

Full compensation for conforming to the requirements of this section shall be considered as included in the prices paid for the various items of work and no separate payment will be made therefor.

#### **5-1.13 PARTIAL PAYMENT**

Attention is directed to Section 9-1.06, "Progress Payments," of the Standard Specifications.

The first estimate for partial payment will be submitted within 60 days from the date shown as the first day of work in the notice to proceed, and monthly thereafter.

#### **5-1.14 PAYMENT OF WITHHELD FUNDS**

Substitution of securities for any money withheld by the Owner to ensure performance under a contract shall be permitted.

At the request and expense of the Contractor and in compliance with Public Contract Code Section 22300, securities equivalent to the amount withheld pursuant to these specifications shall be deposited by the Contractor with the Owner, or with a state or federally chartered bank as the escrow agent, who shall then pay such withheld amounts to the contractor upon written authorization of the Owner.

Securities eligible for investment under this section shall include those listed in Section 16430 of the Government Code, bank or savings and loans certificates of deposit, interest bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by the contractor and the Owner.

Securities to be placed in escrow shall be of a value at least equivalent to the amounts of retention to be paid to the Contractor.

The Contractor shall be beneficial owner of any securities substituted for moneys withheld and shall receive any interest thereon.

The Contractor shall enter into an escrow agreement satisfactory to the Owner, which agreement shall substantially comply with Public Contract Code section 22300.

The Contractor shall obtain the written consent of the surety to such escrow agreement.

#### **5-1.15 FINAL PAYMENT**

Final payment for the work will be made in accordance with the standard City of Kingsburg procedures.

#### **5-1.16 ASSIGNMENT**

Attention is directed to Section 5-1.12 of the Standard Specifications and these Special Provisions.

The Contractor shall not assign monies due or to become due him under the Contract without the written consent of the Owner. Any assignment of monies shall be subject to all proper setoffs in favor of the City of Kingsburg and to all deductions provided for in the contract and particularly all money withheld, whether assigned or not, shall be subject to being used by the City of Kingsburg for the completion of work in the event that the Contractor should be in default therein.

Full compensation for restoring the property to its original state or providing corrective measures necessary after the property is disturbed by construction shall be considered as included in the various contract items of work and no separate payment will be made therefor.

#### **5-1.17 RESOLUTION OF CONTRACT CLAIMS**

Public works contract claims of three hundred seventy-five thousand (\$375,000) or less which arise between a contractor and a local public agency shall be resolved in accordance with the provisions of Article 1.5 (Sections 20104-20104.6, inclusive) of Chapter 1 of Part 3 of Division 2 of the Public Contract Code. Article 1.5 requires that its provisions or a summary thereof be set forth in the plans and specifications for any work that may give rise to a claim thereunder. Accordingly, this contract incorporates all of the terms and conditions of Article 1.5, as follows:

##### **Article 1.5 Resolution of Contract Claims**

20104. (a)(1) This article applies to all public works claims of three hundred seventy-five thousand dollars (\$375,000) or less which arise between a contractor and a local agency.

(2) This article shall not apply to any claims resulting from a contract between a contractor and a public agency when the public agency has elected to resolve any disputes pursuant to Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2.

(b)(1) "Public work" has the same meaning as in Sections 3100 and 3106 of the Civil Code, except that "public work" does not include any work or improvement contracted for by the State or the Regents of the University of California.

(2) "Claim" means a separate demand by the contractor for (A) a time extension, (B) payment of money or damages arising from work done by or on behalf of the contractor pursuant to the contract for a public work and payment of which is not otherwise expressly provided for or the

claimant is not otherwise entitled to, or (C) an amount the payment of which is disputed by the local agency.

(c) The provisions of this article or a summary thereof shall be set forth in the plans or specifications for any work which may give rise to a claim under this article.

(d) This article applies only to contracts entered into on or after January 1, 1991.

20104.2 For any claim subject to this article, following requirements apply:

(a) the claim shall be in writing and include the documents necessary to substantiate the claim. Claims must be filed on or before the date of final payment. Nothing in this subdivision is intended to extend the time limit or supersede notice requirements otherwise provided by contract for the filing of claims.

(b)(1) For claims of less than fifty thousand dollars (\$50,000), the local agency shall respond in writing to any written claim within 45 days of receipt of the claim, or may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the local agency may have against the claimant.

(2) If additional information is thereafter required, it shall be requested and provided pursuant to this subdivision, upon mutual agreement of the local agency and the claimant.

(3) The local agency's written response to the claim as further documented shall be submitted to the claimant within 15 days after receipt of the further documentation or within a period of time no greater than that taken by the claimant in producing the additional information, whichever is greater.

(c)(1) For claims of over fifty thousand (\$50,000) and less than or equal to three hundred seventy-five thousand dollars (\$375,000), the local agency shall respond in writing to all written claims within 60 days of receipt of the claim, or may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the local agency may have against the claimant.

(2) If additional information is thereafter required, it shall be requested and provided pursuant to this subdivision, upon mutual agreement of the local agency and the claimant.

(3) The local agency's written response to the claim, as further documented, shall be submitted to the claimant within 30 days after receipt of the further documentation, or within a period of time no greater than taken by the claimant in producing the additional information or requested documentation, whichever is greater.

(d) If the claimant disputes the local agency's written response, or the local agency fails to respond within the time prescribed, the claimant may so notify the local agency in writing, either within 15 days of receipt of the local agency's response or within 15 days of the local agency's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the local agency shall schedule a meet and confer conference within 30 days for settlement of the dispute.

(e) If following the meet and confer conference the claim or any portion remain in dispute, the claimant may file a claim pursuant to Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code. For

purposes of those provisions, the running of the period of time within which a claim must be filed shall be tolled from the time the claimant submits his or her written claim pursuant to subdivision (a) until the time the claim is denied, including any period of time utilized by the meeting and confer conference.

20104.4 The following procedures are established for all civil actions filed to resolve claims subject to this article:

(a) Within 60 days, but no earlier than 30 days, following the filing or responsive pleadings, the court shall submit the matter to nonbinding mediation unless waived by the mutual stipulation of both parties. The mediation process shall provide for the selection within 15 days by both parties of disinterested third person as mediator, shall be commenced within 30 days of the submittal, and shall be concluded within 15 days from the commencement of the mediation unless a time requirement is extended upon a good cause showing to the court or by stipulation of both parties. If the parties fail to select a mediator within the 15-day period, any party may petition the court to appoint the mediator.

(b)(1) If the matter remains in dispute, the case shall be submitted to the judicial arbitration pursuant to Chapter 2.5 (commencing with Section 1141.10) of Title 3 of Part 3 of the Code of Civil Procedure, notwithstanding Section 1141.11 of that code. The Civil Discovery Act of 1986 (Article 3 commencing with Section 2016) of Chapter 3 of Title 3 of Part 4 of Civil Procedure) shall apply to any proceeding brought under this subdivision consistent with the rule pertaining to judicial arbitration.

(2) Notwithstanding any other provision of law, upon stipulation of the parties, arbitrators appointed for purposes of this article shall be experienced in construction law, and, upon stipulation of the parties, mediators and arbitrators shall be paid necessary and reasonable hourly rates of pay not to exceed their customary rate, and such fees and expenses shall be paid equally by the parties, except in the case of arbitration where the arbitrator, for good cause, determines a different division. In no event shall these fees or expenses be paid by state or county funds.

(3) In addition to Chapter 2.5 (commencing with Section 1141.10) of Title 3 of Part 3 of the Code of Civil Procedure, any party who after receiving an arbitration award requests a trial de novo but does not obtain a more favorable judgment shall, in addition to payment of costs and fees under that chapter, pay the attorney's fees of the other party arising out of the trial de novo.

(c) The court may, upon request by any party, order any witnesses to participate in the mediation or arbitration process. Arbitrators shall be experienced in construction law.

20104.6 (a) No local agency shall fail to pay money as to any portion of a claim which is undisputed except as otherwise provided in the contract.

(b) In any suit filed under Section 20104.4, the local agency shall pay interest at the legal rate on any arbitration award or judgment. The interest shall begin to accrue on the date the suit is filed in a court of law.

### **5-1.18 PROMPT PROGRESS PAYMENT TO SUBCONTRACTORS**

Attention is directed to the provisions in Sections 10262 and 10262.5 of the Public Contract Code and Section 7108.5 of the Business and Professions Code concerning prompt payment to

subcontractors.

#### **5-1.19 PROMPT PAYMENT OF WITHHELD FUNDS TO SUBCONTRACTORS**

The Contractor shall return all moneys withheld in retention from the subcontractor within 30 days after receiving payment for work satisfactorily completed, even if the other contract work is not completed and has not been accepted in conformance Section 5-1.46, "Final Inspection and Contract Acceptance," of the Standard Specifications. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the Contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the Contractor or deficient subcontract performance or noncompliance by a subcontractor.

#### **5-1.20 NOT USED**

#### **5-1.21 NOT USED**

#### **5-1.22 DIFFERING SITE CONDITION**

##### **a. Contractor's Notification**

Promptly notify the Agency's Engineer if you find either of the following conditions:

1. Physical conditions differing materially from either of the following"
  - Contract documents
  - Job site examination
2. Physical conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the Contract.

Include details explaining the information you relied on and the material differences you discovered.

If you fail to promptly notify the Engineer, you waive the differing site condition claim for the period between your discovery of the differing site condition and your notification to the Engineer.

If you disturb the site after discovery and before the Engineer's investigation, you waive the differing site condition claim.

##### **b. Engineer's Investigation and Decision**

Upon your notification, the Engineer investigates job site conditions and:

1. Notifies you whether to resume affected work.
2. Decides whether the condition differs materially and is cause for an adjustment of time, payment, or both.

#### **5-1.28 QUALITY ASSURANCE**

The Agency uses a Quality Assurance Program (QAP) to ensure a material is produced to comply with the Contract. You may examine the records and reports of tests the Agency performs if they are available at the job site. Schedule work to allow time for QAP.

## **SECTION 6 - NOT USED**

## **SECTION 7 - FORCE ACCOUNT PAYMENT**

### **LABOR SURCHARGE**

Attention is directed to the provisions in Section 9-1.03A(1b) of the Standard Specifications. The labor surcharge to be added to the actual wages paid, as defined in Section 9-1.03A(1a) of the Standard Specifications, shall be **13** percent of the actual wages, except as provided for the premium portion of dump truck operation wages as provided in the Equipment Rental Rates referred to in Section "Equipment Rental Rates" of these Special Provisions.

### **RECORDS**

Attention is directed to the provisions in the second paragraph of Section 5-1.27 of the Standard Specifications.

The Contractor shall furnish to the Engineer completed daily extra work reports, on forms furnished by the Engineer for each day's extra work to be paid for on a force account basis no later than the second working day following the work for labor and equipment involved and no later than the fifth working day for material invoices and specialized forces.

Unless otherwise permitted by the Engineer, no payment will be made for extra work on a force account basis if it has not been reported within the time and in the manner specified.

### **EQUIPMENT RENTAL RATES**

Attention is directed to the provisions of section 9-1.04D(1) of the Standard Specifications. The equipment rental rates to be paid are listed in a table entitled "County of Fresno, Public Works & Development Services Department, Equipment Rental Rates" on file with the Clerk of the Board of Supervisors, Room 301, Hall of Records, Fresno, California, and are incorporated herein by reference.

Copies of the equipment rental rates may be obtained from the County of Fresno, Public Works & Development Services Department, Design Services Section, Seventh Floor, Fresno County Plaza Building, 2220 Tulare Street, Fresno, California 93721. Phone (559) 262-4109.

The rates to be applied to this project are the latest rates dated on or before the date of approval of this contract for advertising. The date of approval for advertising appears on the last page of the Notice to Contractors for this project.

### **FORCE ACCOUNT PAYMENT**

The second paragraph of Section 9-1.04A and the second and third sentences of the sixth paragraph of Section 9-1.04D(5), "Non-Owner Operated Dump Truck Rental" of the Standard Specifications shall not apply.

## **SECTION 8 - MATERIALS**

### **8-1.01 GENERAL**

Attention is directed to Section 46 of the Standard Specifications and Special Provisions.

All materials required to complete the work under this contract shall be furnished by the Contractor.

A certificate of compliance may be required for materials used on this contract as directed by the Engineer.

When requested by the Engineer, the supplier or contractor shall furnish, without charge, samples of all materials entering into the work, and no material shall be used prior to approval by the Engineer. Samples of the material from local sources shall be taken by or in the presence of the Engineer; otherwise the samples will not be considered for testing.

### **8-1.02 TESTING**

Any special inspection or testing required by the Building Official during administration and inspection of the building permit shall be provided by a licensed third-party inspector at the Contractor's expense.

### **8-1.03 MEASUREMENT OF MATERIALS**

Attention is directed to Section 9-1.02 "Measurement" of the Standard Specifications and these Special Provisions.

### **8-1.04 TRADE NAMES AND ALTERNATIVES**

Whenever an article, or any class of materials, is specified by trade name or by the name of any particular patentee, manufacturer or dealer, or by reference to the catalog of any such manufacturer or dealer, it shall be taken as intending to mean and specify the article or material described or any other equal thereto in quality, finish and durability, and equally as serviceable for the purpose for which it is or they are intended. The intent of the plans and specifications is to specify high grade standard equipment, and it is not the intent of these plans and specifications to exclude or omit the products of any responsible manufacturer, if such products are equal in every respect to those mentioned herein.

## **SECTION 09 - DESCRIPTION OF WORK AND WORK INCLUDED**

### **9-1.01 DESCRIPTION OF WORK**

The work to be done consists, in general, of kitchen improvements to the existing Senior Center building as shown on the plans and described herein.

All work shall be in accordance with the 2010 State of California Department of Transportation Standard Specifications, City of Kingsburg Improvement Standards, and the California Building Code. The work is more specifically delineated by these specifications described in these Special Provisions and is in the City of Kingsburg, County of Fresno, and State of California.

## **9-1.02 WORK INCLUDED, ORDER, AND PROCESS OF WORK**

This project includes, but is not necessarily limited to, all work shown on the City of Kingsburg figure included in these specifications for “SENIOR CENTER KITCHEN RENOVATIONS,” these Special Provisions, all drawings, plans, and specifications referenced elsewhere in these Special Provisions, as well as all work necessary or related to this project, as required to fulfill the intent of the plans and specifications for this project.

**It is the intent of these Special Provisions to completely construct the various items of work as required to provide a finished and completed project to the highest standards of the industry consistent with these plans and specifications. All such work as shown and in compliance with the plans and specifications shall be included under the bid item. Any and all items of work not specifically listed or defined but required to complete the project and fulfill the intent of the plans and specifications, shall be included under the bid item Miscellaneous Facilities.**

**No additional or separate payment will be made for work incidental or related to the bid items.**

All reference to contract measurement and payment shall be as shown under these Special Provisions as they supersede all other references.

### **ORDER AND PROCESS OF WORK**

The work shall be performed as follows:

- a. Work areas should be shielded by the contractor from maintained workspaces by use of plastic, canvas tarps, or similar barriers. Dust and noise should be limited to the minimum levels to perform the work.
- b. Contractor vehicles parked in the on-site Senior Center parking lot shall not exceed five (5) vehicles. Additional contractor vehicles can be parked in available street parking.

## SECTION 10 – TECHNICAL SPECIFICATIONS & BID ITEMS

### General

All work shall be performed in accordance with the City Standard Specifications and the Architectural Technical Specifications included in Appendix A of these Contract Documents.

Compensation for all work specified to be performed under this contract and shown on the drawings will be made under payment items listed herein and shown on the Bid Proposal. The contract prices for the said payment items shall be full compensation for all of the costs connected therewith including all labor, materials, tools, equipment, and incidentals furnished and doing all the work involved in completing the items of work including final cleanup as specified herein. It is the intent of this contract that the sum of all prices listed in the Bid Proposal shall represent the total lump sum cost of all work shown on the drawings and specified herein. Where items of work are not specifically defined in the schedule or included in the bid items, these items shall be included in those bid items which are most closely related to the required work.

***Separate payment will not be made for any item which is not specifically set forth in the bid items contained in the Proposal. Therefore, the Contractor's entire compensation for doing all work in accordance with the Contract Documents and related requirements of the California Building Code shall be included in the prices stated on the Bid Proposal.***

### **Bid Item 1 - Mobilization**

This item is bid on a lump sum basis and shall consist of compensation for the movement of personnel, equipment, supplies and incidentals to the project site, and for the costs of bonds and insurance.

The contract lump sum paid for mobilization shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all work involved in mobilization, including background checks, as specified herein, including the cost of bonds and insurance.

### **Bid Item 2 - Site Management**

This item involves maintain the site for construction including, but not limited to, securing site, cleanup, recycling, traffic control, dust control, temporary power, etc.

### **Bid Item 3 - Demolition and Site Preparation**

This item involves performing any necessary demolition, including disposing of excess materials, and preparing the site for construction.

### **Bid Item 4 - Plumbing**

This item involves furnishing and installing all plumbing system, including but not limited to, sinks and basins, fixtures, piping, fittings, grease trap, and other appurtenances as shown on the plans and as specified by these Contract Documents.

**Bid Item 5 - Electrical**

This item involves furnishing and installing all electrical systems including, but not limited to conduits, conductors, boxes, vaults, outlets, lighting fixtures, switches, service enclosures and components, and other appurtenances as shown on the plans and as specified by these Contract Documents.

**Bid Item 6 - Interior Framing and Finishes**

This item involves furnishing and installing all interior framing and finishes including, but not limited to, wood and steel framing, drywall, T-bar ceiling, trim, base and wall boards, and other appurtenances and as shown on the plans as specified by these Contract Documents.

**Bid Item 7 - Interior and Exterior Doors**

This item involves furnishing and installing all interior and exterior doors including, but not limited to, doors, frames, roll-up/down doors and frames, opening and closing systems, hardware, wiring, and other appurtenances and as shown on the plans as specified by these Contract Documents.

**Bid Item 8 - Insulation**

This item involves furnishing and installing all insulation as shown on the plans and as specified by these Contract Documents.

**Bid Item 9 - Flooring**

This item involves furnishing and installing floor coverings and finishes as shown on the plans and as specified by these Contract Documents.

**Bid Item 10 - Mechanical & HVAC**

This item involves furnishing and installing all mechanical and HVAC systems, including but not limited to, range and hood system, exhaust fans, HVAC units, wiring, controls, ceiling access panels, and other appurtenances as shown on the plans and as specified by these Contract Documents.

**Bid Item 11 - Fire Sprinkler System**

This item involves installation of the fire sprinkler system and reasonable incidental work to accommodate the improvements shown on the plans and as specified by these Contract Documents.

**Bid Item 12 – Structural Framing System**

This item involves structural framing improvements including all jacking, bracking, connectors, lumber, labor, and other incidentals and appurtenances associated with structural framing improvements as shown on the plans and as specified by these Contract Documents.

**Bid Item 13 - Painting**

This item involves providing furnishing and performing all painting as shown on the plans and as specified by these Contract Documents.

**Bid Item 14 - Miscellaneous Facilities & Operations**

The contract lump sum price paid for Miscellaneous Facilities & Operations shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in Miscellaneous Facilities & Operations, including, but not limited to, work shown on the plans but not described in the various bid items as well as any other work necessary for completion of the work not specifically described on the plans or specifications, removal of any equipment in conflict with the proposed improvements including capping of plumbing and replacing finishes, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

**Bid Item 15 - Supplemental Work**

This bid item is provided for new and unforeseen work which when determined by the Engineer that such work is not covered by any of the various items for which there is a bid price or by combinations of such items. The Contractor shall do such extra work and furnish labor, material, and equipment therefor upon receipt of an approved contract change order or other written order of the Engineer.

**PROPOSAL TO THE CITY OF KINGSBURG**

**hereinafter called the Owner, for**

**CITY OF KINGSBURG  
SENIOR CENTER KITCHEN RENOVATIONS**

The work to be done and referred herein is in the City of Kingsburg, Fresno County, State of California, and extends over existing rights of way within the City.

The work is to be constructed in accordance with the City of Kingsburg Standard Specifications for Public Works, Special Provisions and contract annexed hereto and also in accordance with the Standard Plans and Standard Specifications dated May, 2010, of the State of California, Department of Transportation.

The work to be done is shown on the Project Plans, City Standard Specifications, Architectural Technical Specifications, and these contract documents.

The undersigned, as bidder, declares that the only persons or parties interested in this proposal as principals are those named herein, that this proposal is made without collusion with any other person, firm or corporation; that he has carefully examined the location of the proposed work, the annexed proposed form of contract, and the plans therein referred to; and he proposes and agrees if this proposal is accepted, that he will contract with the Owner to provide all necessary machinery, tools, apparatus and other means of construction, and to do all the work and furnish all the materials specified in the contract in the manner and time therein prescribed, and according to the requirements of the Engineer.

***Notwithstanding anything to the contrary in these Contract Documents, full compensation for performing all work as shown on the plans, as specified in these Contract Documents and City Improvement Standards, and as directed by the Engineer is considered to be included in the various bid items, and no additional payment will be made.***

***If one or more item(s) of work is/are not included in the Bid Proposal, perform the work as shown and as specified and payment therefor is considered to be included in the various bid items.***

**BID FORM**

**CITY OF KINGSBURG**

**SENIOR CENTER KITCHEN RENOVATIONS**

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

**BASE BID**

Item No.	Quantity	Unit	Item Description	Unit Price	Total Amount
1.	1	LS	Mobilization (\$10,000 maximum)	_____	_____
2.	1	LS	Site Management	_____	_____
3.	1	LS	Demolition and Site Preparation	_____	_____
4.	1	LS	Plumbing	_____	_____
5.	1	LS	Electrical	_____	_____
6.	1	LS	Interior Framing and Finishes	_____	_____
7.	1	LS	Exterior & Interior Doors	_____	_____
8.	1	LS	Insulation	_____	_____
9.	1	LS	Flooring	_____	_____
10.	1	LS	Mechanical & HVAC	_____	_____
11.	1	LS	Fire Sprinkler System	_____	_____
12.	1	LS	Structural Framing System	_____	_____

13.	1	LS	Painting	_____	_____
14.	1	LS	Miscellaneous Operation and Facilities	_____	_____
15.	1	LS	Supplemental Work	<u>\$30,000</u>	<u>\$30,000</u>

All Bid Items are Final Pay Quantity

**Total Base Bid :**      \$ \_\_\_\_\_

(in words)

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**ABBREVIATIONS USED IN BID SCHEDULE**

- |                 |                  |                    |
|-----------------|------------------|--------------------|
| CF - Cubic Foot | SF - Square Foot | VF - Vertical Foot |
| CY - Cubic Yard | SY - Square Yard | LF - Linear Foot   |
| EA - Each       | TON – Ton        | LS - Lump Sum      |

Bids are required for the entire work. The lowest bid shall be the lowest total of the bid prices on the base contract and those additive or deductive items that when taken in order from a specifically identified list of those items in the solicitation, and added to, or subtracted from, the base contract, are less than, or equal to, a funding amount publicly disclosed by the local agency before the first bid is opened.

The total of unit basis items will be determined by extension of the item price bid on the basis of the estimated quantity set forth for the item.

The bidder shall set forth for each item of work, in clearly legible figures, an item price and a total for the item in the respective spaces provided for this purpose. In the case of unit basis items, the amount set forth under the "Total" column shall be the extension of the item price bid on the basis of the estimated quantity for the item.

In case of discrepancy between the item price and the total set forth for the item, the item price shall prevail, provided, however, if the amount set forth as an item price is ambiguous, unintelligible or uncertain for any cause, or is omitted, the amount set forth in the "Total" column for the item shall prevail in accordance with the following:

- (1) As to lump sum items, the amount set forth in the "Total" column shall be the item price.

- (2) As to unit basis items, the amount set forth in the "Total" column shall be divided by the estimated quantity for the item and the price thus obtained shall be the item price.

If this proposal shall be accepted and the undersigned shall fail to contract, as aforesaid, and to give the two bonds in the sums to be determined as aforesaid, with surety satisfactory to the Owner, within ten (10) days not including Saturdays, Sundays and legal holidays, after the bidder has received notice of award of the contract, the Owner, at its option, may determine that the bidder has abandoned the contract, and thereupon this proposal and the acceptance thereof shall be null and void, and the forfeiture of such security accompanying this proposal shall operate and the same shall be the property of the Owner.

#### **ABBREVIATIONS USED IN BID SCHEDULE**

CF - Cubic Foot

SF - Square Foot

VF – Vertical Foot

CY - Cubic Yard

SY - Square Yard

LF - Linear Foot

EA - Each

TN – Ton

LS - Lump Sum

Bids are required for the entire work. Bids will be compared on the basis indicated in the Notice to Contractors. The total of unit basis items will be determined by extension of the item price bid on the basis of the estimated quantity set forth for the item.

The bidder shall set forth for each item of work, in clearly legible figures, an item price and a total for the item in the respective spaces provided for this purpose. In the case of unit basis items, the amount set forth under the "Total" column shall be the extension of the item price bid on the basis of the estimated quantity for the item.

In case of discrepancy between the item price and the total set forth for the item, the item price shall prevail, provided, however, if the amount set forth as an item price is ambiguous, unintelligible or uncertain for any cause, or is omitted, the amount set forth in the "Total" column for the item shall prevail in accordance with the following:

- (1) As to lump sum items, the amount set forth in the "Total" column shall be the item price.
- (2) As to unit basis items, the amount set forth in the "Total" column shall be divided by the estimated quantity for the item and the price thus obtained shall be the item price.

If this proposal shall be accepted and the undersigned shall fail to contract, as aforesaid, and to give the two bonds in the sums to be determined as aforesaid, with surety satisfactory to the Owner, within ten (10) days not including Saturdays, Sundays and legal holidays, after the bidder has received notice of award of the contract, the Owner, at its option, may determine that the bidder has abandoned the contract, and thereupon this proposal and the acceptance thereof shall be null and void, and the forfeiture of such security accompanying this proposal shall operate and the same shall be the property of the Owner.



**NONCOLLUSION AFFIDAVIT**

**PROJECT: SENIOR CENTER KITCHEN RENOVATIONS  
CITY OF KINGSBURG**

TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID  
To the City Council of the City of Kingsburg:

\_\_\_\_\_  
(Name)

being first duly sworn, deposes and says that he or she is

\_\_\_\_\_  
(Owner, Partner, Corporate Officer (list title), Co-Venturer)

of \_\_\_\_\_  
(Bidding Entity)

the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company associations, thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

(Title 23 United States Code Section 112)

(Calif Public Contract Code Section 7106; Stats. 1988, c. 1548, Section 1.)

**NOTE:** The above Noncollusion Affidavit is part of the Proposal. Signing the Proposal on the signature portion thereof shall also constitute signature of this Noncollusion Affidavit. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

**SUBCONTRACTORS LIST**

**PROJECT: SENIOR CENTER KITCHEN RENOVATIONS  
CITY OF KINGSBURG**

**BIDDER:** \_\_\_\_\_

**SUBCONTRACTORS**

The bidder hereby designates below the names and business addresses of each subcontractor to whom the bidder proposes to subcontract portions of the work in the amount of 1/2 of one percent of his total bid or \$10,000, whichever is greater, in accordance with the Subletting and Subcontracting Fair Practices Act, commencing with Section 4100 of the Public Contract Code. The bidder's attention is directed to other provisions of said Act related to the imposition of penalties for a failure to observe its provisions by using unauthorized subcontractors or by making unauthorized substitutions.

Please fill out as completely as possible when submitting your bid. Use subcontractor's business name style as registered with the License Board.

**SUBCONTRACTOR 1:** \_\_\_\_\_

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

Class: \_\_\_\_\_ License No. \_\_\_\_\_

Item No. or Description of Work: \_\_\_\_\_

\_\_\_\_\_  
Dollar Amount or Percentage of Total Bid: \_\_\_\_\_

**SUBCONTRACTOR 2:** \_\_\_\_\_

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

Class: \_\_\_\_\_ License No. \_\_\_\_\_

Item No. or Description of Work: \_\_\_\_\_

\_\_\_\_\_  
Dollar Amount or Percentage of Total Bid: \_\_\_\_\_

**SUBCONTRACTOR 3:** \_\_\_\_\_

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

Class: \_\_\_\_\_ License No. \_\_\_\_\_

Item No. or Description of Work: \_\_\_\_\_

\_\_\_\_\_  
Dollar Amount or Percentage of Total Bid: \_\_\_\_\_

SUBCONTRACTOR 4: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Class: \_\_\_\_\_ License No. \_\_\_\_\_  
Item No. or Description of Work: \_\_\_\_\_  
\_\_\_\_\_  
Dollar Amount or Percentage of Total Bid: \_\_\_\_\_

SUBCONTRACTOR 5: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Class: \_\_\_\_\_ License No. \_\_\_\_\_  
Item No. or Description of Work: \_\_\_\_\_  
\_\_\_\_\_  
Dollar Amount or Percentage of Total Bid: \_\_\_\_\_

SUBCONTRACTOR 6: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Class: \_\_\_\_\_ License No. \_\_\_\_\_  
Item No. or Description of Work: \_\_\_\_\_  
\_\_\_\_\_  
Dollar Amount or Percentage of Total Bid: \_\_\_\_\_

SUBCONTRACTOR 7: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Class: \_\_\_\_\_ License No. \_\_\_\_\_  
Item No. or Description of Work: \_\_\_\_\_  
\_\_\_\_\_  
Dollar Amount or Percentage of Total Bid: \_\_\_\_\_

**CONTRACTOR'S/SUBCONTRACTOR'S CERTIFICATIONS  
CONCERNING STATE LABOR STANDARDS AND PREVAILING WAGES**

**PROJECT: SENIOR CENTER KITCHEN RENOVATIONS  
CITY OF KINGSBURG**

All contractors and subcontractors shall give the following certifications to the Owner and forward this certification to the Owner within ten days after the execution of any contract or subcontract.

A. "I am aware of the provisions of Section 1720 et seq. of the California Labor Code which requires that the state prevailing wage rate shall be paid to employees where this rate exceeds the federal wage rate."

B. "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 the Code, and I will comply with such provisions before commencing the performance of the work of this contract."

C. "It is further agreed that, except as may be provided in Section 1815 of the California Labor Code, the maximum hours a worker is to be employed is limited to eight hours a day and 40 hours a week and the contractor/subcontractor shall forfeit, as a penalty, twenty-five dollars for each worker employed in the execution of the subcontract for each calendar day during which a worker is required or permitted to labor more than 8 hours in any calendar day or more than 40 hours in any calendar week."

\_\_\_\_\_  
(Contractor/Subcontractor)

By: \_\_\_\_\_  
(Signature) (Typed Name and Title)

**CERTIFICATION WITH REGARD TO THE PERFORMANCE OF PREVIOUS CONTRACTS OR  
SUBCONTRACTS SUBJECT TO THE EQUAL OPPORTUNITY CLAUSE AND THE FILING OF  
REQUIRED REPORTS.**

**PROJECT: SENIOR CENTER KITCHEN RENOVATIONS  
CITY OF KINGSBURG**

The bidder\_\_\_\_, proposed subcontractor\_\_\_\_, hereby certifies that he has\_\_\_\_, has not\_\_\_\_, participated in previous contract or subcontract subject to the equal opportunity clause, as required by Executive Orders 10925, 11114, or 11246, and that he has\_\_\_\_, has not\_\_\_\_, filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

\_\_\_\_\_  
(Company)

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

\_\_\_\_\_  
(Title)

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

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-2.7(b) (1), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contracts or subcontracts of \$10,000 or under are exempt.)

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

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

TITLE 49, CODE OF FEDERAL REGULATIONS, PART 29 DEBARMENT AND SUSPENSION  
CERTIFICATION

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

is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency;

has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past 3 years;

does not have a proposed debarment pending; and

has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

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

( ) No Exceptions

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

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

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

By my signature on this proposal, I certify, under penalty of perjury under the laws of the State of California and the United States of America, that the Title 23 United States Code, Section 112 Non-Collusion Affidavit and the Title 49 Code of Federal Regulations, Part 29 Debarment and Suspension Certification are true and correct.

Bidder/Subcontractor: \_\_\_\_\_

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

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

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

(This guaranty shall be executed by the successful bidder in accordance with the instructions in the Special Provisions. The bidder may execute the guaranty on this page at the time of submitting his bid).

**GUARANTY**

**TO THE OWNER: CITY OF KINGSBURG**

**PROJECT: SENIOR CENTER KITCHEN RENOVATIONS**

The undersigned guarantees the constructions and installation of the following work included in this project:

Should any of the materials or equipment prove defective or should the work as a whole prove defective, due to faulty workmanship, material furnished or methods of installation, or should the work or any part thereof fail to operate properly as originally intended and in accordance with the plans and specifications, due to any of the above causes, all within twelve (12) months after date on which this contract is accepted by the Owner, the undersigned agrees to reimburse the Owner, upon demand, for its expenses incurred in restoring said work to the condition contemplated in said project, including the cost of any such equipment or materials replaced and the cost of removing and replacing any other work necessary to make such replacement or repairs, or, upon demand by the Owner, to replace any such material and to repair said work completely without cost to the Owner so that said work will function successfully as originally contemplated.

The Owner shall have the unqualified option to make any needed replacement or repairs itself or to have such replacements or repairs done by the undersigned. In the event the Owner elects to have said work performed by the undersigned, the undersigned agrees that the repairs shall be made and such materials as are necessary shall be furnished and installed within a reasonable time after the receipt of demand from the Owner. If the undersigned shall fail or refuse to comply with his obligations under this guaranty, the Owner shall be entitled to all costs and expenses, including attorney's fees, reasonably incurred by reason of the said failure or refusal.

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

## AGREEMENT

THIS AGREEMENT made at Kingsburg, in Fresno County, California, by and between \_\_\_\_\_

hereinafter called the Contractor, and the City of Kingsburg hereinafter called the Owner.

WITNESSETH: That the Contractor and the Owner, for the consideration hereinafter named, agree as follows:

**ARTICLE I.** The Contractor agrees to furnish all labor and materials, including tools, implements, and appliances required, but excluding such materials as are mentioned in the specifications to be furnished by the Owner, and to perform all the work in a good and workmanlike manner, free from any and all liens and claims of mechanics, materialmen, teamsters, subcontractors, artisans, machinists, and laborers required for:

### SENIOR CENTER KITCHEN RENOVATIONS

all in strict compliance with the plans, drawings and specifications therefor prepared by the Owner, and other contract documents relating thereto.

**ARTICLE II.** The Contractor and the Owner agree that the Advertisement (Notice to Contractors), the Wage Scale (Prevailing Wages), the Specifications, the Special Provisions, the Plans and Drawings, the Addenda and Bulletins thereto, and the Proposal hereto attached, together with this Agreement, form the contract, and they are as fully a part of the contract as if hereto attached or herein repeated.

All portions of the 2010 Standard Specifications of the State of California, Department of Transportation, which are not in conflict with this contract shall be deemed a part of the specifications as though fully therein set forth. No part of said Special Provisions which is in conflict with any portion of this agreement, or which is not actually descriptive of the work to be done thereunder, or the manner in which said work is to be executed, shall be considered as any part of this agreement, but shall be utterly null and void.

**ARTICLE III.** The Owner agrees to pay the Contractor in current funds for the performance of the contract sum of \_\_\_\_\_ (\$ \_\_\_\_\_ ) it being understood that said price is based upon the estimated quantities of materials to be used as set forth in the Proposal, except where provisions are made in the contract documents whereby the estimated quantities shall constitute the final quantity; that upon completion of the project the final contract prices shall be revised by change order, if necessary, to reflect the true quantities used at the stated unit price thereof as contained in the Contractor's Proposal hereto attached. Payments on account thereof will be made as set forth in the Special Provisions.

**ARTICLE IV.** If the Contractor should be adjudged a bankrupt, or if he should make a general assignment for the benefit of his creditors, or if a receiver should be appointed on account of his insolvency, or if he or any of his subcontractors should persistently violate any of the provisions of the contract, or if he should persistently or repeatedly refuse or should, fail, except in cases for which extension of time is provided, to supply enough properly skilled workmen or proper materials, or if he should fail to make prompt payment to subcontractors or for material or labor, or persistently disregard laws, ordinances or the instructions of the Engineer, then the Owner may, upon certificate of the Engineer when sufficient cause exists to justify such action, serve written notice upon the Contractor and his surety of its intention to terminate the contract, and unless within five days after the serving of such notice such violations shall cease and satisfactory arrangements for correction thereof be made, the contract shall, upon the expiration of said five days, cease and terminate.

In the event of any such termination, the Owner shall immediately serve written notice thereof upon the surety and the Contractor, and the surety shall have the right to take over and perform

the contract, provided, however, that if the surety within ten (10) days after the serving upon it of notice of termination does not give the Owner written notice of its intention to take over and perform the work or does not commence performance thereof within the ten (10) days stated above from the date of the serving of such notice, the Owner may take over the work and prosecute the same to completion by contract or by any other method it may deem advisable, for the account and at the expense of the Contractor, and the Contractor and his surety shall be liable to the Owner for any excess cost occasioned the Owner thereby, and in such event the Owner may without liability for so doing, take possession of and utilize in completing the work such materials, appliances, plant and other property belonging to the Contractor as may be on the site of the work and necessary therefor. In such case the Contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the contract price shall exceed the expenses of finishing the work, including compensation for additional managerial and administrative services, such excess shall be paid to the Contractor. If such expense shall exceed such unpaid balance, the Contractor shall pay the difference to the Owner. The expense incurred by the Owner, as herein provided and damage incurred through the Contractor's default, shall be certified by the Engineer.

**ARTICLE V.** With respect to any work required to be done under this contract, the Contractor will indemnify and hold harmless the City of Kingsburg, Peters Engineering Group and all other participating public agencies, whether, or not said agencies are named herein, who have jurisdiction within the areas in which the work is to be performed, and all officers and employees of the Owner, the City, the State, Peters Engineering Group and said other participating agencies, against any and all claims, demands, causes of action, damages, (including damages to the Owner's property or property of the participating agencies), costs or liabilities (including costs, or liabilities of the Owner or the participating agencies with respect to its employees), in law or in equity of every kind and nature whatsoever, directly or proximately resulting from or caused by the performance of the contract, whether such performance by the Contractor, his subcontractor or anyone directly or indirectly employed by him; and the Contractor shall, at his sole risk and expense, defend any and all suits, actions or other legal proceedings which may be brought or instituted by third persons against the Owner, the participating agencies, their officers and employees on any such claim, demand or cause of action, and the Contractor shall pay and satisfy any judgement or decree which may be rendered against the Owner, the participating agencies, their officers and employees in any such suit, action or other legal proceedings.

The Contractor shall furnish the Owner with a Certificate of Insurance, in triplicate, indicating insurance coverage with respect to the liability assumed by the Contractor under the provisions of this Article V, and shall further indicate insurance coverage with minimum limits as shown in either (a.) or (b.) as follows:

a. Bodily Injury Liability	\$1,000,000	\$1,000,000
	Each person	Each occurrence
Property Damage Liability	\$1,000,000	\$1,000,000
	Each person	Aggregate

- b. A single limit for Bodily Injury Liability and Property Damage Liability combined of:  
 \$1,000,000, Each occurrence, \$1,000,000, Aggregate

Contractor's Property Damage Liability insurance shall include coverage for property damage caused by blasting, collapse, structural injuries of damage to underground utilities. The policy shall not contain the so-called "x", "c" or "u" exclusions.

The Certificate of Insurance shall further provide that ten days notice of cancellation or reduction in coverage shall be given the Owner.

An additional Insured Endorsement to the Contractor's Liability insurance policy naming the Owner, the above said agencies and all other participating public agencies (if applicable) and all

officers and employees of the above, shall also be furnished in triplicate.

**ARTICLE VI.** Contractor represents that he has secured the payment of Worker's Compensation in compliance with the provisions of the Labor Code of the State of California and during the performance of the work contemplated herein will continue so to comply with said provisions of said Code. Contractor shall supply the Owner with certificates of insurance, in triplicate, evidencing that Worker's Compensation Insurance is in effect and providing that the Owner will receive ten days notice of cancellation. If Contractor self-insures Worker's Compensation, Certificate of Consent to Self-insure shall be provided the Owner.

**ARTICLE VII.** The Contractor shall forthwith furnish in triplicate, a faithful performance bond in an amount equal to 100% of the contract price and a payment bond in an amount equal 100% of the contract price, both bonds to be written by a surety company acceptable to the Owner and in the form prescribed by law.

The payment bond shall contain provisions such that if the Contractor or his subcontractors shall fail to pay (a) amounts due under the Unemployment Insurance Code with respect to work performed under the contract, or (b) any amounts required to be deducted, withheld and paid over to the Employment Development Department from the wages of the employees of the Contractor and subcontractors pursuant to Section 13020 of the Unemployment Insurance Code with respect to such work and labor, then the surety will pay these amounts. In case suit is brought upon the payment bond, the surety will pay a reasonable attorney's fee to be fixed by the court.

**ARTICLE VIII.** Should either party to the contract bring an arbitration or mediation proceeding or other action to enforce any provisions of the contract, including an action pursuant to Public Contract Code Section 20104.4, the prevailing party shall be entitled to recover reasonable attorney's fees and all costs in connection therewith. The term "prevail" as used in this section shall include any action at law, in equity, or pursuant to arbitration in which either party has been successful

**ARTICLE IX.** Time is of the essence. The improvement and work contemplated in the performance of this contract is predicated on sufficient suitable weather conditions during the contract period (after the notice to proceed), it is agreed that the contract may be credited additional days as provided in the specifications, but no additional monetary compensation. Any such delay shall be documented and processed on the standard change order form.

IN WITNESS WHEREOF, they have executed this Agreement this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

City of Kingsburg  
(Owner)

\_\_\_\_\_  
(Contractor)

By: \_\_\_\_\_  
Alexander Henderson, City Manager

\_\_\_\_\_  
(Taxpayer Federal I.D. No.)

ATTEST:  
\_\_\_\_\_  
Abigail Palsgaard, City Clerk

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

**BID BOND**

**KNOW ALL MEN BY THESE PRESENTS:**

That

we,

\_\_\_\_\_

hereinafter referred to as Principal, and

\_\_\_\_\_

as Surety, are held and firmly bound unto the City of Kingsburg

in the sum of

\_\_\_\_\_

lawful money of the United States of America, for payment of which sum, well and truly to be made, we bind ourselves, jointly and severally, firmly by these presents.

The condition of the above obligation is such that:

WHEREAS, said Principal will, within 10 days upon receipt of Notice of Award for:

**CITY OF KINGSBURG**

**SENIOR CENTER KITCHEN RENOVATIONS**

and in accordance with the terms of the specifications, Information for Bidders, and the bid and acceptance thereof, enter into a contract for the performance and completion of said work and give required bonds, then this obligation shall be void, otherwise, the penalty of this bond, which accompanies the bid, shall be declared forfeited to the Obligee.

WITNESS our hand this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

\_\_\_\_\_  
Principal

(Seal)

\_\_\_\_\_  
Title

(Seal)

By:

\_\_\_\_\_  
Surety

**BOND FOR FAITHFUL PERFORMANCE**

KNOW ALL MEN BY THESE PRESENTS: \_\_\_\_\_

That we, \_\_\_\_\_

\_\_\_\_\_

hereinafter referred to as Principal, and

\_\_\_\_\_

\_\_\_\_\_

as Surety, are held and firmly bound unto the City of Kingsburg

in the sum of \_\_\_\_\_,

lawful money of the United States of America, for payment of which sum, well and truly to be made, we bind ourselves, jointly and severally, firmly by these presents.

The condition of the above obligation is such that:

WHEREAS, said Principal has executed that certain annexed Contract with the City of Kingsburg for furnishing all materials, equipment and labor for the construction of:

**CITY OF KINGSBURG**

**SENIOR CENTER KITCHEN RENOVATIONS**

for said City, and is required by said City to give this bond in connection with the execution of said Contract.

NOW, THEREFORE, if said Principal shall well and truly do and perform all of the covenants and obligations of said Contract on his part to be done and performed at the times and in the manner specified therein, then this obligation shall be null and void, otherwise it shall be and remain in full force and effect:

PROVIDED, that any alterations in the work to be done, or the material to be furnished, which may be made pursuant to the terms of said Contract, shall not in any way release either the Principal or the Surety thereunder, nor shall any extension of time granted under the provisions of said Contract release either the Principal or the Surety, and notice of such alterations or extensions of the Contract is hereby waived by the Surety.

WITNESS our hand this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

(Seal)

\_\_\_\_\_  
Principal

\_\_\_\_\_  
Title

(Seal)

\_\_\_\_\_  
Surety

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

Note: Attach Power of Attorney and Notary Forms to Bond

**BOND FOR LABOR AND MATERIALS**

KNOW ALL MEN BY THESE PRESENTS:

That we, \_\_\_\_\_

\_\_\_\_\_

hereinafter referred to as Principal, and

\_\_\_\_\_

\_\_\_\_\_

as Surety, are held and firmly bound unto the City of Kingsburg

in the sum of

\_\_\_\_\_

for lawful money of the United States of America, for payment of which sum well and truly to be made, we bind ourselves, jointly and severally, firmly by these presents.

The condition of the foregoing obligation is such that,

WHEREAS, said Principal has executed that certain annexed Contract with the City of Kingsburg for furnishing all materials, equipment and labor for the construction of:

**CITY OF KINGSBURG  
SENIOR CENTER KITCHEN RENOVATIONS**

for said City, and is required by said City to give this bond in connection with the execution of said Contract.

NOW, THEREFORE, if the said Principal as Contractor in said Contract, or any of his subcontractors, fails to pay for any materials, provisions, or other supplies or teams used in, upon, for or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or for *City of Kingsburg – Senior Center Kitchen Renovations*

amounts due under the Employment Insurance Act with respect to such work or labor, said surety will pay for the same, in an amount not exceeding the sum specified above, and also, in case suit is brought upon this bond, a reasonable attorney's fee, to be fixed by the Court. This bond shall inure to the benefit of any and all persons entitled to file claims under Section 1192.1 of the Code of Civil Procedure of the State of California,

PROVIDED, that any alterations in the work to be done, or the material to be furnished, which may be made pursuant to the terms of said Contract shall not in any way release either the Principal or the Surety thereunder, nor shall any extension of time granted under the provisions of said Contract release either the Principal or the Surety, and notice of such alterations or extensions of the Contract is hereby waived by the Surety.

WITNESS our hands this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Principal

(Seal)

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

\_\_\_\_\_  
Surety

(Seal)

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

Note: Attach Power of Attorney and Notary Forms to Bond.

## APPENDIX – ARCHITECTURAL TECHNICAL SPECIFICATIONS

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SECTION 22 0400 - PLUMBING

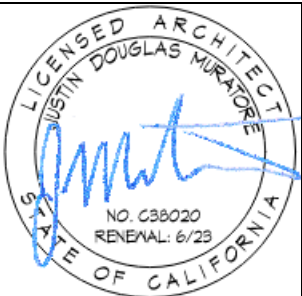
### **DIVISION 23 – MECHANICAL**

SECTION 23 0800 – HEATING, VENTILATING AND AIR CONDITIONING  
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**END OF TABLE OF CONTENTS**

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**SIGNATURES AND SEALS**

<p><b>ARCHITECT</b> Justin Muratore Muratore Associates 5250 N Sequoia Ave. Fresno, California 93711 (559) 365-6534</p>	
<p><b>STRUCTURAL ENGINEER</b></p>	
<p><b>MECHANICAL ENGINEER</b> Mike Cantelmi Lawrence Engineering Group 4910 E Clinton Way Fresno, California 93727 (559) 431-0101</p>	
<p><b>ELECTRICAL ENGINEER</b></p>	

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**SECTION 01 1000  
SUMMARY**

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**PART 1 - GENERAL**

**1.01. PROJECT**

- A. Project Name: Kitchen Renovation
- B. Owner's Name: Kingsburg Senior Center
- C. Architect's Name: Muratore Associates; Contact: Justin Muratore.
- D. This project will renovate the existing kitchen to introduce additional sanitary and food preparation safety measures as well as fire life safety measures.

**1.02. CONTRACT**

- A. Unless otherwise indicated, the Drawings and Specifications are directed to the General Contractor.

**1.03. WORK BY OWNER**

- A. Furnishing and some kitchen equipment provided by owner.

**1.04. CONTRACTOR USE OF SITE AND PREMISES**

- A. Construction Operations: Limited to areas as directed by Owner's Representative.
- B. Arrange use of site and premises to allow:
  - 1. Work by Others.
  - 2. Work by Owner.
  - 3. Use of public property as regulated by the City of Kingsburg.

**1.05. Parking of all vehicles shall be limited to those areas designated by the Owner's Representative.**

**PART 2 - PRODUCTS -NOT USED**

**PART 3 - EXECUTION -NOT USED**

**END OF SECTION**

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**SECTION 01 1100  
SUMMARY OF WORK**

**PART 1 - GENERAL**

**1.01. RELATED DOCUMENTS:**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification section, apply to work of this section.

**1.02. PROJECT DESCRIPTION:**

- A. The Project name is Kingsburg Senior Center Kitchen Renovation, Kingsburg, CA, as shown on Contract Documents prepared by Muratore Associates, **dated 14 August 2023**.
- B. The Work consists of the selective demolition of existing cabinetry equipment and furnishings. The work will comprise a new hood and ansul system, new sinks for ware-washing, hand-washing and food-prep, new grease trap, new roll down door at counter, new swing door to replace pocket door, and new flooring and paint within the renovated spaces.

**1.03. QUALITY ASSURANCE:**

- A. The Contractor's duties include the following, unless specifically noted,
1. Provide and pay for
    - a. Labor, material and equipment
    - b. Tools, construction equipment and machinery
    - c. Heat and utilities required for construction
    - d. Other facilities and services necessary for proper execution and completion of the Work
  2. Water: see specification section "Temporary Facilities and Controls"
  3. Pay legally required sales, consumer and use taxes.
  4. Secure and pay for all site specific (Owner will pay all required fees) as necessary for proper execution and completion of the Work.
    - a. Licenses
    - b. Permits and Fees
    - c. Government Fees
    - d. Royalties
  5. Give required notices.
  6. Comply with codes, ordinance, rules, regulations, orders and other legal requirements of public authorities which bear on performance of Work.
    - a. The Contractor shall certify in writing that no materials containing Asbestos are incorporated in the work, in accordance with the Asbestos Hazard Emergency Regulations Act.
  7. Promptly submit written notice to Architect of observed variance.
  8. Enforce strict discipline and good order among employees. Do not employ on the Work:
    - a. Unfit persons
    - b. Persons not skilled in assigned task

**1.04. SITE CONDITIONS:**

- A. Work under other separate Contract may occur concurrently with and/or adjacent to the Work of this Contract. The Contractor shall coordinate his work with the work of these separate Contracts and shall cooperate with the Contractors of these separate Contracts, if they occur.

**1.05. CONTRACTOR USE OF PREMISES:**

- A. General: The Contractor shall limit his use of the premises to the designated work areas so as to allow for Owner occupancy of adjacent spaces. Disruption of existing occupants and activities is to be kept at a minimum. Access to occupied areas and spaces is to be coordinated with the Owner at least 48 hours in advance. Where disruption will be significant or when shut-off of any utilities to occupied spaces is required, then these shall be arranged to take place prior to 8:00 A.M. and after 5:00 P.M. and shall be coordinated with the Owner at least three work days in

**Kitchen Renovation - Kingsburg Senior Center**

- 1 advance. Contractor shall include in bid any cost for overtime or extra cost related to working
- 2 outside normal business hours.
- 3 B. Assume full responsibility for protection and safekeeping of Contractor's and Owner's material
- 4 stored on premises, and keep the site and building secure at all times.
- 5 C. Use of the Site: Confine operations at the site to the areas permitted under the Contract.
- 6 Portions of the site beyond areas in which construction operations are indicated are not to be
- 7 disturbed. Conform to site rules and regulation affecting the Work while engaged in project
- 8 construction.
- 9 1. Keep driveways and entrances serving the premises clear and available to the Owner, the
- 10 Owner's employees and the public at all times. Do not use these areas for parking or
- 11 storage of materials.
- 12 2. Do not unreasonably encumber the site with materials or equipment. Schedule deliveries
- 13 to minimize space and time requirements for storage of materials and equipment on site.
- 14 Confine stockpiling of materials and location of storage sheds to the areas indicated. If
- 15 additional storage is necessary obtain and pay for such storage off-site.
- 16 D. Use of the Existing Building: Maintain the existing buildings in a weather tight condition
- 17 throughout the construction period. Repair damage caused by construction operations. Take all
- 18 precautions necessary to protect the building during the construction period.
- 19 1. Do not load structure with weight that will endanger structure.

**1.06. OWNER OCCUPANCY:**

- 21 A. Full Owner Occupancy: The Owner will occupy the site and areas directly adjacent to the
- 22 construction during the entire period of construction. Cooperate with the Owner during
- 23 construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so
- 24 as not to interfere with the Owner's operation and security.

**1.07. OWNER-FURNISHED ITEMS:**

- 26 A. The Contractor will carefully remove items that are to be relocated and or reused in other areas
- 27 of the work. The Contractor shall furnish new items where existing Items are damaged during
- 28 removal. Damaged items shall not be re-installed. Contractor shall be responsible for the
- 29 removal and re-installation of designated items. The Contractor shall notify the Owner of any
- 30 existing items that are damaged before removal for subsequent re-installation.
- 31 B. Obtain and pay for use of additional storage of salvaged items, as needed.

**PART 2 - PRODUCTS (Not applicable).**

**PART 3 - EXECUTION (Not applicable).**

**END OF SECTION**

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**SECTION 01 2000  
PRICE AND PAYMENT PROCEDURES**

**PART 1 - GENERAL**

**1.01. SECTION INCLUDES**

- A. Procedures for preparation and submittal of applications for progress payments.
- B. Documentation of changes in Contract Sum and Contract Time.
- C. Change procedures.
- D. Correlation of Contractor submittals based on changes.
- E. Procedures for preparation and submittal of application for final payment.

**1.02. SCHEDULE OF VALUES**

- A. See General Conditions -"Payments and Completion" for additional requirements. If they are in conflict with this section, follow the more restrictive requirement.
- B. Submit a printed schedule on AIA Form G703 -Application and Certificate for Payment Continuation Sheet. Contractor's standard form or electronic media printout will be considered.
- C. Submit Schedule of Values in duplicate within 15 days after date of Owner-Contractor Agreement
- D. Format: Utilize the Table of Contents of this Project Manual. Identify each line item with number and title of the specification Section. For each item provide a column for listing each of the following:
  - 1. Item Number
  - 2. Description of Work
  - 3. Scheduled Values
- E. Include separately from each line item, a direct proportional amount of Contractor's overhead and profit.
- F. Revise schedule to list approved Change Orders, with each Application for Payment.

**1.03. APPLICATIONS FOR PROGRESS PAYMENTS**

- A. See General Conditions -"Payments and Completion" for additional requirements. If they are in conflict with this section, follow the more restrictive requirement.
- B. Payment Period: Submit at intervals stipulated in the Agreement
- C. Present required information in typewritten form.
- D. Form: AIA G702 Application and Certificate for Payment and AIA G703 -Continuation Sheet including continuation sheets when required.
- E. For each item, provide a column for listing each of the following:
  - 1. Item Number.
  - 2. Description of work.
  - 3. Scheduled Values.
  - 4. Previous Applications.
  - 5. Work in Place and Stored Materials under this Application.
  - 6. Authorized Change Orders.
  - 7. Total Completed and Stored to Date of Application.
  - 8. Percentage of Completion.
  - 9. Balance to Finish.
  - 10. Retainage.
- F. Execute certification by signature of authorized officer.

## Kitchen Renovation - Kingsburg Senior Center

- 1 G. Use data from approved Schedule of Values. Provide dollar value in each column for each line  
2 item for portion of work performed and for stored Products.
- 3 H. List each authorized Change Order as a separate line item, listing Change Order number and  
4 dollar amount as for an original item of Work.
- 5 I. Submit three copies of each Application for Payment on the 25th day of each month. Payment  
6 amount may be projected through to the end of the month.
- 7 J. Include the following with the application:
- 8 1. Transmittal letter as specified for Submittals in Section 01 3000.
- 9 2. Partial release of liens from major Subcontractors and vendors.
- 10 3. Affidavits attesting to off-site stored products.
- 11 K. When Architect requires substantiating information, submit data justifying dollar amounts in  
12 question. Provide one copy of data with cover letter for each copy of submittal. Show application  
13 number and date, and line item by number and description.

### 14 **1.04. MODIFICATION PROCEDURES**

- 15 A. Architect will advise of minor changes in the Work not involving an adjustment to Contract Sum  
16 or Contract Time as authorized by the Conditions of the Contract by issuing supplemental  
17 instructions on AIA Form G710.
- 18 B. Construction Change Directive: Architect may issue a document, signed by Owner, instructing  
19 Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
- 20 1. The document will describe changes in the Work, and will designate method of  
21 determining any change in Contract Sum or Contract Time.
- 22 2. Promptly execute the change in Work.
- 23 C. Proposal Request: Architect may issue a document which includes a detailed description of a  
24 proposed change with supplementary or revised Drawings and specifications, a change in  
25 Contract Time for executing the change. Contractor shall prepare and submit a fixed price  
26 quotation within 10 days unless otherwise requested.
- 27 D. Contractor may propose a change by submitting a request for change to Architect, describing  
28 the proposed change and its full effect on the Work, with a statement describing the reason for  
29 the change, and the effect on the Contract Sum and Contract Time with full documentation and  
30 a statement describing the effect on Work by separate or other contractors. Document any  
31 requested substitutions in accordance with Section 01 6000.
- 32 E. Computation of Change in Contract Amount:
- 33 1. For change requested by Architect for work falling under a fixed price contract, the amount  
34 will be based on Contractor's price quotation.
- 35 2. For change requested by Contractor, the amount will be based on the Contractor's request  
36 for a Change Order as approved by Architect.
- 37 3. For pre-determined unit prices and quantities, the amount will be based on the fixed unit  
38 prices.
- 39 4. For change ordered by Architect without a quotation from Contractor, the amount will be  
40 determined by Architect based on the Contractor's substantiation of costs as specified for  
41 Time and Material work.
- 42 F. Substantiation of Costs: Provide full information required for evaluation.
- 43 1. Provide the following data:
- 44 a. Quantities of products, labor, and equipment.
- 45 b. Taxes, insurance, and bonds.
- 46 c. Overhead and profit.
- 47 d. Justification for any change in Contract Time.
- 48 e. Credit for deletions from Contract, similarly documented.
- 49 2. Support each claim for additional costs with additional information:
- 50 a. Origin and date of claim.
- 51 b. Dates and times work was performed, and by whom.

**Kitchen Renovation - Kingsburg Senior Center**

- 1 c. Time records and wage rates paid.
- 2 d. Invoices and receipts for products, equipment, and subcontracts, similarly
- 3 documented.
- 4 3. For Time and Material work, submit itemized account and supporting data after completion
- 5 of change, within time limits indicated in the Conditions of the Contract.
- 6 G. Execution of Change Orders: After OSHPD has approved the proposed Change Order, if
- 7 applicable, the Architect will issue Change Orders for signatures of parties as provided in the
- 8 Conditions of the Contract on AIA G701.
- 9 H. After execution of Change Order, promptly revise Schedule of Values and Application for
- 10 Payment forms to record each authorized Change Order as a separate line item and adjust the
- 11 Contract Sum.
- 12 I. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-
- 13 schedules to adjust times for other items of work affected by the change, and resubmit.
- 14 J. Promptly enter changes in Project Record Documents.
- 15 **1.05. APPLICATION FOR FINAL PAYMENT**
- 16 A. Prepare Application for Final Payment as specified for progress payments, identifying total
- 17 adjusted Contract Sum, previous payments, and sum remaining due.
- 18 B. Application for Final Payment will not be considered until the following have been accomplished:
- 19 1. All closeout procedures specified in Section 01 7800.
- 20 2. Receipt of all unconditional lien releases.
- 21 3. Architect's acceptance of all corrected punch list items.

**END OF SECTION**

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## Kitchen Renovation - Kingsburg Senior Center

- 1 C. Agenda:
- 2 1. Designation of personnel representing the parties to Contract, Contractor, and Architect.
- 3 2. Procedures and processing of field decisions, submittals, substitutions, applications for
- 4 payments, proposal request, Change Orders, and Contract closeout procedures.
- 5 3. Scheduling.
- 6 4. Inspector of Record's requirements.
- 7 5. OSHPD CO's requirements.
- 8 D. Record minutes and distribute copies within two days after meeting to participants, with one
- 9 copy to Architect, Owner, participants, and those affected by decisions made.

### 10 3.02. SITE MOBILIZATION MEETING

- 11 A. Project Coordinator will schedule a meeting at the Project site prior to Contractor occupancy.
- 12 B. Attendance Required:
- 13 1. Contractor.
- 14 2. Owner.
- 15 3. Architect.
- 16 4. Contractor's Superintendent.
- 17 5. Major Subcontractors.
- 18 C. Agenda:
- 19 1. Use of premises by Owner and Contractor.
- 20 2. Owner's requirements.
- 21 3. Construction facilities and controls provided by Owner.
- 22 4. Temporary utilities.
- 23 5. Survey and building layout.
- 24 6. Security and housekeeping procedures.
- 25 7. Life safety program and temporary protection.
- 26 8. Schedules.
- 27 9. Application for payment procedures.
- 28 10. Procedures for testing.
- 29 11. Procedures for maintaining record documents.
- 30 12. Requirements for start-up of equipment.
- 31 13. Inspection and acceptance of equipment put into service during construction period.
- 32 14. Commissioning / calibration
- 33 D. Record minutes and distribute copies within two days after meeting to participants, with copies
- 34 to Architect, Owner, participants, and those affected by decisions made.

### 35 3.03. PROGRESS MEETINGS

- 36 A. Schedule and administer meetings throughout progress of the Work at maximum weekly
- 37 intervals.
- 38 B. Make arrangements for meetings, prepare agenda with copies for participants, preside at
- 39 meetings.
- 40 C. Attendance Required: Job superintendent, major Subcontractors and suppliers, Owner,
- 41 Architect, as appropriate to agenda topics for each meeting.
- 42 D. Agenda:
- 43 1. Review minutes of previous meetings.
- 44 2. Review of Work progress.
- 45 3. Field observations, problems, and decisions.
- 46 4. Identification of problems which impede planned progress.
- 47 5. Review of submittals schedule and status of submittals.

## Kitchen Renovation - Kingsburg Senior Center

- 1 6. Review of off-site fabrication and delivery schedules.
- 2 7. Maintenance of progress schedule.
- 3 8. Corrective measures to regain projected schedules.
- 4 9. Planned progress during succeeding work period.
- 5 10. Coordination of projected progress.
- 6 11. Maintenance of quality and work standards.
- 7 12. Effect of proposed changes on progress schedule and coordination.
- 8 13. Other business relating to Work.
- 9 E. Record minutes and distribute copies within two days after meeting to participants, with one
- 10 copy to Architect, Owner, participants, and those affected by decisions made.

### 11 3.04. CONSTRUCTION PROGRESS SCHEDULE

- 12 A. Within 10 days after date of the Agreement submit preliminary schedule defining planned
- 13 operations for the first 60 days of Work, with a general outline for remainder of Work.
- 14 B. If preliminary schedule requires revision after review, submit revised schedule within 10 days.
- 15 C. Within 20 days after review of preliminary schedule, submit draft of proposed complete
- 16 schedule for review.
- 17 1. Include written certification that major contractors have reviewed and accepted proposed
- 18 schedule.
- 19 D. Within 10 days after joint review, submit complete schedule.
- 20 E. Submit updated schedule with each Application for Payment.

### 21 3.05. SUBMITTALS FOR REVIEW

- 22 A. When the following are specified in individual sections, submit them for review:
- 23 1. Product data.
- 24 2. Shop drawings.
- 25 3. Samples for selection.
- 26 4. Samples for verification.
- 27 B. Submit to Architect for review for the limited purpose of checking for conformance with
- 28 information given and the design concept expressed in the contract documents.
- 29 C. Samples will be reviewed only for aesthetic, color, or finish selection.
- 30 D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES
- 31 article below and for record documents purposes described in Section 01 7800 -CLOSEOUT
- 32 SUBMITTALS.

### 33 3.06. SUBMITTALS FOR INFORMATION

- 34 A. When the following are specified in individual sections, submit them for information:
- 35 1. Design data.
- 36 2. Certificates.
- 37 3. Test reports.
- 38 4. Inspection reports.
- 39 5. Manufacturer's instructions.
- 40 6. Manufacturer's field reports.
- 41 7. Other types indicated.
- 42 B. Submit for Architect's knowledge as contract administrator or for Owner. No action will be taken.

### 43 3.07. SUBMITTALS FOR PROJECT CLOSEOUT

- 44 A. When the following are specified in individual sections, submit them at project closeout:
- 45 1. Project record documents.
- 46 2. Operation and maintenance data.

## Kitchen Renovation - Kingsburg Senior Center

- 1 3. Warranties.
- 2 4. Bonds.
- 3 5. Other types as indicated.

### 4 **3.08. NUMBER OF COPIES OF SUBMITTALS**

- 5 A. Soft copies: submit a soft copy (pdf) format of all submittals.
- 6 B. Documents for Review:
  - 7 1. Small Size Sheets, Not Larger than 8-1/2 x 11 inches: Submit the number of copies which
  - 8 the Contractor requires.
  - 9 2. Larger Sheets, Not Larger than 36 x 48 inches: Submit one copy.
- 10 C. Documents for Information: Submit one copy.
- 11 D. Documents for Project Closeout: Make one reproduction of submittal originally reviewed. Submit
- 12 one extra of submittals for information.
- 13 E. Samples: Submit the number specified in individual specification sections; one of which will be
- 14 retained by Architect.
  - 15 1. Retained samples will not be returned to Contractor unless specifically so stated.

### 16 **3.09. SUBMITTAL PROCEDURES**

- 17 A. Sequentially number the transmittal form. Revise submittals with original number and a
- 18 sequential revision number.
- 19 B. Identify Project, Contractor, Subcontractor or supplier; pertinent drawing and detail number, and
- 20 specification section number, as appropriate on each copy.
- 21 C. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of
- 22 Products required, field dimensions, adjacent construction Work, and coordination of
- 23 information is in accordance with the requirements of the Work and Contract Documents.
- 24 D. Deliver submittals to Architect at business address.
- 25 E. Schedule submittals to expedite the Project, and coordinate submission of related items.
- 26 F. For each submittal for review, allow 10 working days excluding delivery time to and from the
- 27 Contractor.
- 28 G. Identify variations from Contract Documents and Product or system limitations which may be
- 29 detrimental to successful performance of the completed Work.
- 30 H. Provide space for Contractor and Architect review stamps.
- 31 I. When revised for resubmission, identify all changes made since previous submission.
- 32 J. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any
- 33 inability to comply with requirements.
- 34 K. Submittals not requested will not be recognized or processed.

35 **END OF SECTION**

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**SECTION 01 4000  
QUALITY REQUIREMENTS**

**PART 1 - GENERAL**

**1.01. SECTION INCLUDES**

- A. References and standards.
- B. Quality assurance submittals.
- C. Control of installation.
- D. Tolerances.
- E. Testing and inspection services.
- F. Manufacturers' field services.

**1.02. REFERENCES**

- A. ASTM C 1021-08 -Standard Practice for Laboratories Engaged in Testing of Building Sealants.
- B. ASTM C 1077-11c -Standard Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation.
- C. ASTM C 1093-12 -Standard Practice for Accreditation of Testing Agencies for Unit Masonry.
- D. ASTM D 3740-12 -Standard Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.
- E. ASTM E 329-11c -Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction.
- F. ASTM E 543-09 -Standard Practice for Agencies Performing Nondestructive Testing.

**1.03. SUBMITTALS**

- A. Testing Agency Qualifications:
  - 1. Prior to start of Work, submit agency name, address, and telephone number, and names of full time registered Engineer and responsible officer.
- B. Test Reports: After each test / inspection, promptly submit two copies of report to Architect and to Contractor.
  - 1. Include:
    - a. Date issued.
    - b. Project title and number.
    - c. Name of inspector.
    - d. Date and time of sampling or inspection.
    - e. Identification of product and specifications section.
    - f. Location in the Project.
    - g. Type of test/inspection.
    - h. Date of test/inspection.
    - i. Results of test/inspection.
    - j. Conformance with Contract Documents.
    - k. When requested by Architect, provide interpretation of results.
  - 2. Test reports are submitted for Architect's knowledge as contract administrator or for the Owner, for information for the limited purpose of assessing conformance with information given and the design concept expressed in the contract documents.
- C. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to Architect, in quantities specified for Product Data.
  - 1. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

## Kitchen Renovation - Kingsburg Senior Center

- 1 D. Manufacturer's Instructions: When specified in individual specification sections, submit printed  
2 instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, for the  
3 Owner's information. Indicate special procedures, perimeter conditions requiring special  
4 attention, and special environmental criteria required for application or installation.
- 5 E. Manufacturer's Field Reports: Submit reports for Architect's benefit as contract administrator or  
6 for Owner.
- 7 1. Submit report in duplicate within 30 days of observation to Architect for information.  
8 2. Submit for information for the limited purpose of assessing conformance with information  
9 given and the design concept expressed in the contract documents.  
10
- 11 F. Erection Drawings: Submit drawings for Architect's benefit as contract administrator or for  
12 Owner.
- 13 1. Submit for information for the limited purpose of assessing conformance with information  
14 given and the design concept expressed in the contract documents.  
15 2. Data indicating inappropriate or unacceptable Work may be subject to action by Architect  
16 or Owner.

### 17 1.04. REFERENCES AND STANDARDS

- 18 A. For products and workmanship specified by reference to a document or documents not included  
19 in the Project Manual, also referred to as reference standards, comply with requirements of the  
20 standard, except when more rigid requirements are specified or are required by applicable  
21 codes.
- 22 B. Conform to reference standard of date of issue current on date of Contract Documents, except  
23 where a specific date is established by applicable code.
- 24 C. Obtain copies of standards where required by product specification sections.
- 25 D. Maintain copies at project site during submittals, planning, and progress of the specific work,  
26 until Substantial Completion.
- 27 E. Should specified reference standards conflict with Contract Documents, request clarification  
28 from Architect before proceeding.
- 29 F. Neither the contractual relationships, duties, nor responsibilities of the parties in Contract nor  
30 those of Architect shall be altered from the Contract Documents by mention or inference  
31 otherwise in any reference document.

### 32 1.05. TESTING AND INSPECTION AGENCIES

- 33 A. Owner will employ and pay for services of an independent testing agency to perform specified  
34 testing.
- 35 B. Employment of agency in no way relieves Contractor of obligation to perform Work in  
36 accordance with requirements of Contract Documents.

## 37 **PART 2 - PRODUCTS -NOT USED**

## 38 **PART 3 - EXECUTION**

### 39 3.01. CONTROL OF INSTALLATION

- 40 A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and  
41 workmanship, to produce Work of specified quality.
- 42 B. Comply with manufacturers' instructions, including each step, in sequence.
- 43 C. Should manufacturers' instructions conflict with Contract Documents, request clarification from  
44 Architect before proceeding.
- 45 D. Comply with specified standards as minimum quality for the Work except where more stringent  
46 tolerances, codes, or specified requirements indicate higher standards or more precise  
47 workmanship.
- 48 E. Have Work performed by persons qualified to produce required and specified quality.

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1 F. Verify that field measurements are as indicated on shop drawings or as instructed by the  
2 manufacturer.

3 G. Secure products in place with positive anchorage devices designed and sized to withstand  
4 stresses, vibration, physical distortion, and disfigurement.

### 5 **3.02. TOLERANCES**

6 A. Monitor fabrication and installation tolerance control of products to produce acceptable Work.  
7 Do not permit tolerances to accumulate.

8 B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract  
9 Documents, request clarification from Architect before proceeding.

10 C. Adjust products to appropriate dimensions; position before securing products in place.

### 11 **3.03. TESTING AND INSPECTION**

12 A. See individual specification sections for testing required.

13 B. Testing Agency Duties:

14 1. Provide qualified personnel at site. Cooperate with Architect and Contractor in  
15 performance of services.

16 2. Perform specified sampling and testing of products in accordance with specified  
17 standards.

18 3. Ascertain compliance of materials and mixes with requirements of Contract Documents.

19 4. Promptly notify Architect and Contractor of observed irregularities or non-conformance of  
20 Work or products.

21 5. Perform additional tests and inspections required by Architect.

22 6. Submit reports of all tests inspections specified.

23 C. Limits on Testing/inspection Agency Authority:

24 1. Agency may not release, revoke, alter, or enlarge on requirements of Contract  
25 Documents.

26 2. Agency may not approve or accept any portion of the Work.

27 3. Agency may not assume any duties of Contractor.

28 4. Agency has no authority to stop the Work.

29 D. Contractor Responsibilities:

30 1. Cooperate with laboratory personnel and provide access to the Work and to  
31 manufacturers' facilities.

32 2. Provide incidental labor and facilities:

33 a. To provide access to Work to be tested/inspected.

34 b. To obtain and handle samples at the site or at source of Products to be  
35 tested/inspected.

36 c. To facilitate tests/inspections.

37 d. To provide storage and curing of test samples.

38 3. Notify Architect and laboratory 24 hours prior to expected time for operations requiring  
39 testing/inspection services.

40 4. Arrange with Owner's agency and pay for additional samples, tests, and inspections  
41 required by Contractor beyond specified requirements.

42 E. Re-testing required because of non-conformance to specified requirements shall be performed  
43 by the same agency on instructions by Architect. Payment for re testing will be charged to the  
44 Contractor.

### 45 **3.04. MANUFACTURERS' FIELD SERVICES**

46 A. When specified in individual specification sections, require material or product suppliers or  
47 manufacturers to provide qualified staff personnel to observe site conditions, conditions of  
48 surfaces and installation, quality of workmanship, start-up of equipment, test, adjust and  
49 balance of equipment as applicable, and to initiate instructions when necessary.



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**SECTION 01 4100  
REGULATORY REQUIREMENTS**

**PART 1 - GENERAL**

**1.01. SECTION INCLUDES**

- A. Other applicable regulatory agencies are not specifically identified.

**1.02. QUALITY ASSURANCE**

- A. Perform Work in conformance with the applicable requirements of regulatory agencies, and CCR Title 8, Title 19, Title 22, and Title 24.

**PART 2 - PRODUCTS -NOT USED**

**PART 3 - EXECUTION -NOT USED**

**END OF SECTION**



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**SECTION 01 5000  
TEMPORARY FACILITIES AND CONTROLS**

**PART 1 - GENERAL**

**1.01. GENERAL**

- A. See General Conditions -"Use of Site" for additional requirements. If they are in conflict with this section, follow the more restrictive requirement.

**1.02. SECTION INCLUDES**

- A. Temporary utilities.
- B. Temporary telephone and facsimile service.
- C. Temporary sanitary facilities.
- D. Temporary Controls: Barriers, enclosures, and fencing.
- E. Security requirements.
- F. Vehicular access and parking.
- G. Waste removal facilities and services.
- H. Project identification sign.
- I. Field offices.

**1.03. TEMPORARY UTILITIES**

- A. Provide and pay for all electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes.
- B. Existing facilities may not be used.

**1.04. TELEPHONE SERVICE**

- A. Provide, maintain, and pay for telephone & data services to field office at time of project mobilization.

**1.05. TEMPORARY SANITARY FACILITIES**

- A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
- B. Maintain daily in clean and sanitary condition.

**1.06. BARRIERS**

- A. Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.
- B. Provide barricades and covered walkways required by governing authorities for public rights-of-way and for public access to existing building.
- C. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

**1.07. FENCING**

- A. Construction: Commercial grade chain link fence.
- B. Provide 6 foot high fence around construction site; equip with vehicular and pedestrian gates with locks.

**1.08. SECURITY**

- A. Coordinate with Owner's security program.

**1.09. VEHICULAR ACCESS AND PARKING**

- A. Coordinate access and haul routes with governing authorities and Owner.
- B. Provide and maintain access to fire hydrants, free of obstructions.

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- 1 C. Provide means of removing mud from vehicle wheels before entering streets.
- 2 D. Provide temporary parking areas to accommodate construction personnel. When site space is
- 3 not adequate, coordinate additional off-site parking with Owner.
- 4 E. Designate 2 parking spaces for Owner and Architect use.

**1.10. WASTE REMOVAL**

- 6 A. Provide waste removal facilities and services as required to maintain the site in clean and
- 7 orderly condition.
- 8 B. Provide containers with lids. Dispose of waste off-site weekly.

**1.11. PROJECT IDENTIFICATION**

- 10 A. Provide project identification sign if, and as required by Owner.
- 11 B. In addition to Project Name and other features required by the Owner, list the Owner, Architect,
- 12 Professional Consultants and Contractor.
- 13 C. Obtain Owner's and Architect's approval of design prior to construction of the sign.
- 14 D. Erect on site at location acceptable to the Owner and Architect.
- 15 E. No other signs are allowed without Owner permission except those required by law.

**1.12. FIELD OFFICES**

- 17 A. Office: Weather tight, with lighting, electrical outlets, heating, cooling equipment, and equipped
- 18 with sturdy furniture, drawing rack and drawing display table.
- 19 B. Provide space for Project meetings, with table and chairs to accommodate 6 persons.

**1.13. REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS**

- 21 A. Remove temporary utilities, equipment, facilities, materials, prior to Substantial Completion
- 22 inspection.
- 23 B. Remove underground installations to a minimum depth of 2 feet. Grade site as indicated.
- 24 C. Clean and repair damage caused by installation or use of temporary work.
- 25 D. Restore existing and permanent facilities used during construction to original condition.

**PART 2 - PRODUCTS -NOT USED**

**PART 3 - EXECUTION -NOT USED**

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**SECTION 01 6000  
PRODUCT REQUIREMENTS**

**PART 1 - GENERAL**

**1.01. SECTION INCLUDES**

- A. General product requirements.
- B. Transportation, handling, storage and protection.
- C. Product option requirements.
- D. Substitution limitations and procedures.
- E. Procedures for Owner-supplied products.
- F. Spare parts and maintenance materials.

**1.02. REFERENCES**

- A. NFPA 70 -National Electrical Code; National Fire Protection Association 2020.

**1.03. SUBMITTALS**

- A. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- B. Shop Drawing Submittals: Prepared specifically for this Project.
- C. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
  - 1. For selection from standard finishes, submit samples of the full range of the manufacturers
- D. Standard colors, textures, and patterns.
- E. Indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

**PART 2 - PRODUCTS**

**2.01. PRODUCTS**

- A. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Size terminal lugs to NFPA 70, include lugs for terminal box.
- B. Cord and Plug: Provide minimum 6 foot cord and plug including grounding connector for connection to electric wiring system. Cord of longer length is specified in individual specification sections.

**2.02. PRODUCT OPTIONS**

- A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.
- C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

**2.03. SPARE PARTS AND MAINTENANCE PRODUCTS**

- A. Provide spare parts, maintenance, and extra products of types and in quantities specified in individual specification sections.
- B. Deliver to and place in location as directed; obtain receipt prior to final payment.

1        **PART 3 - EXECUTION**

2            **3.01. SUBSTITUTION PROCEDURES**

- 3            A. Instructions to Bidders specify time restrictions for submitting requests for substitutions during  
4            the bidding period. Comply with requirements specified in this section.
- 5            B. Document each request with complete data substantiating compliance of proposed substitution  
6            with Contract Documents. '
- 7            C. A request for substitution constitutes a representation that the submitter:
- 8                1. Has investigated proposed product and determined that it meets or exceeds the quality  
9                level of the specified product.
- 10              2. Will provide the same warranty for the substitution as for the specified product.
- 11              3. Will coordinate installation and make changes to other Work which may be required for  
12              the Work to be complete with no additional cost to Owner.
- 13              4. Waives claims for additional costs or time extension which may subsequently become  
14              apparent.
- 15              5. Will reimburse Owner and Architect for review or redesign services associated with re-  
16              approval by authorities.
- 17            D. Substitutions will not be considered when they are indicated or implied on shop drawing or  
18            product data submittals, without separate written request, or when acceptance will require  
19            revision to the Contract Documents.
- 20            E. Substitution Submittal Procedure:
- 21                1. Submit a request for substitution for consideration. Limit each request to one proposed  
22                substitution.
- 23                2. Submit shop drawings, product data, and certified test results attesting to the proposed  
24                product equivalence. Burden of proof is on proposer.
- 25                3. The Architect will notify Contractor in writing of decision to accept or reject request.

26            **3.02. OWNER-SUPPLIED PRODUCTS, IF ANY**

- 27            A. Owner's Responsibilities:
- 28                1. Arrange for and deliver Owner reviewed shop drawings, product data, and samples, to  
29                Contractor.
- 30                2. Arrange and pay for product delivery to site.
- 31                3. On delivery, inspect products jointly with Contractor.
- 32                4. Submit claims for transportation damage and replace damaged, defective, or deficient  
33                items.
- 34                5. Arrange for manufacturers' warranties, inspections, and service.
- 35            B. Contractor's Responsibilities:
- 36                1. Review Owner reviewed shop drawings, product data, and samples.
- 37                2. Receive and unload products at site; inspect for completeness or damage jointly with  
38                Owner.
- 39                3. Handle, store, install and finish products.
- 40                4. Repair or replace items damaged after receipt.

41            **3.03. TRANSPORTATION AND HANDLING**

- 42            A. Transport and handle products in accordance with manufacturer's instructions.
- 43            B. Promptly inspect shipments to ensure that products comply with requirements, quantities are  
44            correct, and products are undamaged.
- 45            C. Provide equipment and personnel to handle products by methods to prevent soiling,  
46            disfigurement, or damage.

47            **3.04. STORAGE AND PROTECTION**

- 48            A. Store and protect products in accordance with manufacturers' instructions.

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- 1 B. Store with seals and labels intact and legible.
- 2 C. Store sensitive products in weather tight, climate controlled, enclosures in an environment
- 3 favorable to product.
- 4 D. For exterior storage of fabricated products, place on sloped supports above ground.
- 5 E. Provide bonded off-site storage and protection when site does not permit on-site storage or
- 6 protection.
- 7 F. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to
- 8 prevent condensation and degradation of products.
- 9 G. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with
- 10 foreign matter.
- 11 H. Provide equipment and personnel to store products by methods to prevent soiling,
- 12 disfigurement, or damage.
- 13 I. Arrange storage of products to permit access for inspection. Periodically inspect to verify
- 14 products are undamaged and are maintained in acceptable condition.

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**SECTION 01 7000  
EXECUTION REQUIREMENTS**

**PART 1 - GENERAL**

**1.01. SECTION INCLUDES**

- A. Examination, preparation, and general installation procedures.
- B. Pre-installation meetings.
- C. Cutting and patching.
- D. Surveying for laying out the work.
- E. Cleaning and protection.
- F. Starting of systems and equipment.
- G. Demonstration and instruction of Owner personnel.
- H. Closeout procedures, except payment procedures.

**1.02. SUBMITTALS**

- A. Survey work: Submit name, address, and telephone number of Engineer before starting survey work.
  - 1. On request, submit documentation verifying accuracy of survey work.
  - 2. Submit a copy of site drawing signed by the Engineer, that the elevations and locations of the work are in conformance with Contract Documents .
- B. Cutting and Patching: Submit written request in advance of cutting or alteration which affects:
  - 1. Structural integrity of any element of Project..
  - 2. Integrity of weather exposed or moisture resistant element.
  - 3. Efficiency, maintenance, or safety of any operational element.
  - 4. Visual qualities of sight exposed elements.
  - 5. Work of Owner or separate Contractor.
  - 6. Include in request:
    - a. Identification of Project.
    - b. Location and description of affected work.
    - c. Necessity for cutting or alteration.
    - d. Description of proposed work and Products to be used.
    - e. Alternatives to cutting and patching.
    - f. Effect on work of Owner or separate Contractor.
    - g. Written permission of affected separate Contractor.
    - h. Date and time work will be executed.

**1.03. QUALIFICATIONS**

- A. For survey work employ a professional engineer registered in California and acceptable to Architect. Submit evidence of Surveyor's Errors and Omissions insurance coverage in the form of an Insurance Certificate.

**1.04. COORDINATION**

- A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements.
- B. Verify utility requirements and characteristics of operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
- C. Coordinate space requirements, supports, and installation of mechanical and electrical work which are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and

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- 1 conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces  
2 efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- 3 D. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the  
4 construction. Coordinate locations of fixtures and outlets with finish elements.
- 5 E. Coordinate completion and clean-up of work of separate sections.
- 6 F. After Owner occupancy of premises, coordinate access to site for correction of defective work  
7 and work not in accordance with Contract Documents, to minimize disruption of Owner's  
8 activities.

### 9 **PART 2 - PRODUCTS**

#### 10 **2.01. PATCHING MATERIALS**

- 11 A. New Materials: As specified in product sections; match existing products and work for patching  
12 and extending work.
- 13 B. Type and Quality of Existing Products: Determine by inspecting and testing products where  
14 necessary, referring to existing work as a standard.
- 15 C. Product Substitution: For any proposed change in materials, submit request for substitution  
16 described in Section 01 6000.

### 17 **PART 3 - EXECUTION**

#### 18 **3.01. EXAMINATION**

- 19 A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work.  
20 Beginning new work means acceptance of existing conditions.
- 21 B. Verify that existing substrate is capable of structural support or attachment of new work being  
22 applied or attached.
- 23 C. Examine and verify specific conditions described in individual specification sections.
- 24 D. Verify that utility services are available, of the correct characteristics, and in the correct  
25 locations.

#### 26 **3.02. PREPARATION**

- 27 A. Prepare surfaces and remove surface finishes to provide for proper installation of new work and  
28 finishes.
- 29 B. Clean substrate surfaces prior to applying next material or substance.
- 30 C. Seal cracks or openings of substrate prior to applying next material or substance.
- 31 D. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to  
32 applying any new material or substance in contact or bond.

#### 33 **3.03. PREINSTALLATION MEETINGS**

- 34 A. When required in individual specification sections, convene a pre-installation meeting at the site  
35 prior to commencing work of the section.
- 36 B. Require attendance of parties directly affecting, or affected by, work of the specific section.
- 37 C. Notify Architect four days in advance of meeting date.
- 38 D. Prepare agenda and preside at meeting:  
39 1. Review conditions of installation, preparation and installation procedures.  
40 2. Review coordination with related work.
- 41 E. Record minutes and distribute copies within two days after meeting to participants, with copies  
42 to Architect, Owner, participants, and those affected by decisions made.

#### 43 **3.04. LAYING OUT THE WORK**

- 44 A. Verify locations of survey control points prior to starting work.

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- 1 B. Promptly notify Architect of any discrepancies discovered.
- 2 c. Protect survey control points prior to starting site work; preserve permanent reference points
- 3 during construction. .
- 4 D. Promptly report to Architect the loss or destruction of any reference point or relocation required.
- 5 E. Replace dislocated survey control points based on original survey control. Make no changes
- 6 without prior written notice to Architect.
- 7 F. Utilize recognized engineering survey practices.
- 8 G. Establish elevations, lines and levels. Locate and layout by instrumentation and similar
- 9 appropriate means.
- 10 H. Periodically verify layouts by same means.
- 11 I. Maintain a complete and accurate log of control and survey work as it progresses.

### 12 **3.05. GENERAL INSTALLATION REQUIREMENTS**

- 13 A. Install Products as specified in individual sections.

### 14 **3.06. CUTTING AND PATCHING**

- 15 A. See General Conditions -"Cutting and Patching" for additional requirements. If they are in
- 16 conflict with this section follow the more restrictive requirement.
- 17 B. Execute cutting and patching including excavation and fill to complete the work, to uncover work
- 18 to install improperly sequenced work, to remove and replace defective or non-conforming work,
- 19 to remove samples of installed work for testing when requested, to provide openings in the work
- 20 for penetration of mechanical and electrical work, to execute patching to complement adjacent
- 21 work, and to fit Products together to integrate with other work.
- 22 C. Execute work by methods to avoid damage to other work, and which will provide appropriate
- 23 surfaces to receive patching and finishing.
- 24 D. Employ original installer to perform cutting for weather exposed and moisture resistant
- 25 elements, and sight exposed surfaces.
- 26 E. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior
- 27 approval.
- 28 F. Restore work with new Products in accordance with requirements of Contract Documents.
- 29 G. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- 30 H. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids
- 31 with fire rated material in accordance with Section 07 8400 to full thickness of the penetrated
- 32 element.

### 33 **3.07. PROGRESS CLEANING**

- 34 A. See' General Conditions -"Cleaning Up" for additional requirements. If they are in conflict with
- 35 this section follow the more restrictive and notify the Architect.
- 36 B. Maintain areas free of waste materials; debris, and rubbish. Maintain site in a clean and orderly
- 37 condition.
- 38 C. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed
- 39 or-remote spaces prior to enclosing the space.
- 40 D. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning
- 41 to eliminate dust.
- 42 E. Collect and remove waste materials, debris, and rubbish from site weekly and dispose off-site.

### 43 **3.08. PROTECTION OF INSTALLED WORK**

- 44 A. Protect installed work and provide special protection where specified In individual specification
- 45 sections.

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- 1 B. Provide temporary and removable protection for installed products. Control activity in immediate
- 2 work area to prevent damage.
- 3 C. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- 4 D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement
- 5 of heavy objects, by protecting with durable sheet materials.
- 6 E. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary,
- 7 obtain recommendations for protection from waterproofing or roofing material manufacturer.
- 8 F. Prohibit traffic from landscaped areas.

### 9 **3.09. ADJUSTING**

- 10 A. Adjust operating products and equipment to ensure smooth and unhindered operation.

### 11 **3.10. FINAL CLEANING**

- 12 A. Execute final cleaning prior to Substantial Completion and prior to final acceptance.
- 13 B. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains
- 14 and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft
- 15 surfaces.
- 16 C. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the
- 17 surface and material being cleaned.
- 18 D. Clean filters of operating equipment.
- 19 E. Clean debris from roofs, gutters, downspouts, and drainage systems.
- 20 F. Clean site; sweep paved areas, rake clean landscaped surfaces.
- 21 G. Remove Waste 'and surplus materials, rubbish', and construction facilities from the site.'

### 22 **3.11. TOUCH-UP AND REPAIR**

- 23 A. If any surface, material or equipment has been damaged, touchup and/or repair exposed areas
- 24 in a manner acceptable to the Architect. Surface renovation and touch-up may be acceptable
- 25 under some circumstances or, at the sole discretion of the Architect, complete renovation or
- 26 replacement may be required.

### 27 **3.12. CLOSEOUT PROCEDURES**

- 28 A. Make submittals that are required by governing or other authorities.
- 29 1. Provide copies to Architect and Owner.
- 30 B. Notify Architect when work is considered ready for Substantial Completion.
- 31 C. Submit written certification that Contract Documents have been reviewed, work has been
- 32 inspected, and that work is complete in accordance with Contract Documents and ready for
- 33 Architect's review.
- 34 D. Correct items of work listed in executed Certificates of Substantial Completion and comply with
- 35 requirements for access to Owner-occupied areas.
- 36 E. Notify Architect when work is considered finally complete.
- 37 F. Complete items of work determined by Architect's final inspection.

38 **END OF SECTION**

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**SECTION 01 7800  
CLOSEOUT SUBMITTALS**

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**PART 1 - GENERAL**

32

**1.01. SECTION INCLUDES**

- A. Closeout procedures.
- B. Final cleaning.
- C. Adjusting.
- D. Touch-up and repair.
- E. Project record documents.
- F. Operation and maintenance data.
- G. Warranties.
- H. Spare parts and maintenance materials.
- I. Systems demonstration.
- J. Final acceptance and Owner occupancy.

33

**1.02. SUBMITTALS**

- A. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.
- B. Operation and Maintenance Data: Unless otherwise stated in specific sections.
  - 1. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit completed documents within ten days after acceptance.
  - 2. Submit two sets of final documents in final form within 10 days after final inspection.
- C. Warranties and Bonds: Unless otherwise stated in specific sections.
  - 1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within ten days after acceptance.
  - 2. Make other submittals within ten days after Date of Substantial Completion, prior to final Application for Payment.
  - 3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within ten days after acceptance, listing the date of acceptance as the beginning of the warranty period.

34

**PART 2 - PRODUCTS -NOT USED**

35

**PART 3 - EXECUTION**

36

**3.01. PROJECT RECORD DOCUMENTS**

- A. Maintain on site one set of the following record documents; record actual revisions to the Work:
  - 1. Drawings.
  - 2. Specifications.
  - 3. Addenda.
  - 4. Change Orders and other modifications to the Contract.
  - 5. Reviewed shop drawings, product data, and samples.
  - 6. Manufacturer's instruction for assembly, installation, and adjusting.
- B. Ensure entries are complete and accurate, enabling future reference by Owner.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress. Do all graphic work using instruments producing nonfading, clear, permanent marks. Use contrasting colors for different

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1 disciplines of work and where required for clarity. All markings and notations shall be neatly and  
2 accurately made. Make documents available at all times for review by the Architect and Owner.  
3 The Owner's representative will not approve applications for payment until the Contractor can  
4 show that record documents are up to date.

5 E. Do not permanently conceal any work until required information has been recorded.

6 F. Product Data: Maintain one copy of each product data submittal. Mark these documents to  
7 show significant variations in actual Work performed in comparison with information submitted.  
8 Include variations in products delivered to the site, and from the manufacturer's installation  
9 instructions and recommendations.

10 G. Specifications: Legibly mark and record at each product section description of actual products  
11 installed, including the following:

12 1. Manufacturer's name and product model and number.

13 2. Product substitutions or alternates utilized.

14 3. Changes made by Addenda and modifications.

15 H. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction  
16 including:

17 1. Measured depths of foundations in relation to finish first floor datum.

18 2. Measured horizontal and vertical locations of underground utilities and appurtenances,  
19 referenced to permanent surface improvements.

20 3. Measured locations of internal utilities and appurtenances concealed in construction,  
21 referenced to visible and accessible features of the Work.

22 4. Field changes of dimension and detail.

23 5. Details not on original Contract drawings.

### 24 3.02. OPERATION AND MAINTENANCE DATA

25 A. For Each Product or System: List names, addresses and telephone numbers of Subcontractors  
26 and suppliers, including local source of supplies and replacement parts.

27 B. Product Data: Mark each sheet to clearly identify specific products and component parts, and  
28 data applicable to installation. Delete inapplicable information.

29 C. Drawings: Supplement product data to illustrate relations of component parts of equipment and  
30 systems, to show control and flow diagrams. Do not use Project Record Documents as  
31 maintenance drawings.

32 D. Typed Text: As required to supplement product data. Provide logical sequence of instructions  
33 for each procedure, incorporating manufacturer's instructions.

### 34 3.03. OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

35 A. For Each Product, Applied Material, and Finish:

36 1. Product data, with catalog number, size, composition, and color and texture designations.

37 2. Information for re-ordering custom manufactured products.

38 B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents  
39 and methods, precautions against detrimental cleaning agents and methods, and recommended  
40 schedule for cleaning and maintenance.

41 C. Moisture protection and weather-exposed products: Include product data listing applicable  
42 reference standards, chemical composition, and details of installation. Provide  
43 recommendations for inspections, maintenance, and repair.

44 D. Additional information as specified in individual product specification sections.

### 45 3.04. OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

46 A. For Each Item of Equipment and Each System:

47 1. Description of unit or system, and component parts.

48 2. Identify function, normal operating characteristics, and limiting conditions.

49 3. Include performance curves, with engineering data and tests.

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- 1 4. Complete nomenclature and model number of replaceable parts.
- 2 B. Panel board Circuit Directories: Provide electrical service characteristics, controls, and
- 3 communications; typed.
- 4 C. Include color coded wiring diagrams as installed.
- 5 D. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and
- 6 sequences. Include regulation, control, stopping, shut-down, and emergency instructions.
- 7 Include summer, winter, and any special operating instructions.
- 8 E. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and
- 9 troubleshooting; disassembly, repair, and reassembly instructions; and alignment,
- 10 adjusting, balancing, and checking instructions.
- 11 F. Provide servicing and lubrication schedule, and list of lubricants required.
- 12 G. Include manufacturer's printed operation and maintenance instructions.
- 13 H. Include sequence of operation by controls manufacturer.
- 14 I. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams
- 15 required for maintenance.
- 16 J. Provide control diagrams by controls manufacturer as installed.
- 17 K. Provide Contractor's coordination drawings, with color coded piping diagrams as installed.
- 18 L. Provide charts of valve tag numbers, with location and function of each valve, keyed to flow and
- 19 control diagrams.
- 20 M. Provide list of original manufacturer's spare parts, current prices, and recommended quantities
- 21 to be maintained in storage.
- 22 N. Include test and balancing reports.
- 23 O. Additional Requirements: As specified in individual product specification sections.
- 24 **3.05. OPERATION AND MAINTENANCE MANUALS**
- 25 A. Prepare instructions and data by personnel experienced in maintenance and operation of
- 26 described products.
- 27 B. Prepare data in the form of an instructional manual.
- 28 C. Binders: Commercial quality, 8-1/2 x 11 inch three D side ring binders with durable plastic
- 29 covers; 2 inch maximum ring size. When multiple binders are used, correlate data into related.
- 30 consistent groupings.
- 31 D. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE
- 32 INSTRUCTIONS; identify title of Project; identify subject matter of contents.
- 33 E. Provide tabbed dividers for each separate product and system, with typed description of product
- 34 and major component parts of equipment.
- 35 F. Text: Manufacturer's printed data, or typewritten data on 20 pound paper.
- 36 G. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to
- 37 size of text pages.
- 38 H. Arrange content by systems under section numbers and sequence of Table of Contents of this
- 39 Project Manual.
- 40 I. Contents: Prepare a Table of Contents for each volume, with each product or system
- 41 description identified, in three parts as follows:
  - 42 1. Part 1: Directory, listing names, addresses, and telephone numbers of Architect,
  - 43 Contractor, Subcontractors, and major equipment suppliers.
  - 44 2. Part 2: Operation and maintenance instructions arranged by system and subdivided by
  - 45 specification section. For each category, identify names, addresses, and telephone
  - 46 numbers of Subcontractors and suppliers. Identify the following: .
  - 47 a. Significant design criteria.

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- 1 b. List of equipment.
- 2 c. Parts list for each component.
- 3 d. Operating instructions.
- 4 e. Maintenance instructions for equipment and systems.
- 5 f. Maintenance instructions for special finishes, including recommended cleaning
- 6 methods and materials, and special precautions identifying detrimental agents.
- 7 3. Part 3: Project documents and certificates, including the following:
- 8 a. Shop drawings and product data.
- 9 b. Air and water balance reports.
- 10 c. Certificates.
- 11 d. Photocopies of warranties and bonds.
- 12 J. Provide a listing in Table of Contents for design data, with tabbed dividers and space for
- 13 insertion of data.
- 14 K. Table of Contents: Provide title of Project; names, addresses, and telephone numbers of
- 15 Architect, Consultants, and Contractor with name of responsible parties; schedule of products
- 16 and systems, indexed to content of the volume.

### 3.06. WARRANTIES

- 17 A. Categories of Specific Warranties: Warranties on the Work as specified in the General
- 18 Conditions and in individual sections of these Specifications.
- 19
- 20 1. Special Project Warranty: A warranty specifically written and signed for a defined portion
- 21 of the Work and, where required, countersigned by the subcontractor, installer,
- 22 manufacturer or other entity enumerated in the Specifications.
- 23 2. Specified Product Warranty: A warranty which is required by the Contract Documents to
- 24 be provided for a manufactured product incorporated into the Work, regardless of whether
- 25 the manufacturer has published a similar warranty.
- 26 3. Coincidental Product Warranty: A warranty which is not specifically required by the
- 27 Contract Documents other than as specified in this Section, but which is available on a
- 28 product incorporated into the Work by virtue of the fact that the manufacturer of the
- 29 product has a published warranty. Such warranties shall be provided to the Owner, but
- 30 shall not be interpreted to detract from requirements of the Contract Documents.
- 31 4. Correction of Warranted Work: Contractor and first tier subcontractor(s) shall correct its
- 32 (their) failed work by removal and replacement of the failed portions with new materials.
- 33 5. Related Damages and Losses: In connection with the Contractor's and first tier
- 34 subcontractor's (s') correction of warranted work which has failed, Contractor shall remove
- 35 and replace other Project work which has been damaged as a result of such failure, or
- 36 must be removed and replaced to provide access for correction of warranted work.
- 37 6. Warranty Period: A one-year correction period shall apply to all work, in addition to any
- 38 other warranties which may be offered by any manufacturer, starting from Owner's
- 39 accepted Date of Substantial Completion. Statute of Limitation period, for latent and
- 40 patent defects, as a minimum, shall extend to as required by law in the State of California.
- 41 7. Reinstatement of Warranty Period: Except as otherwise indicated, when work covered by
- 42 a special project warranty or product warranty has failed and has been corrected by
- 43 replacement or restoration, the Contractor and first tier subcontractor(s) shall reinstate
- 44 warranty by written endorsement for a time period equal to the original warranty period
- 45 starting on date of acceptance of replaced or restored work.
- 46 8. Replacement Cost Obligations: Except as otherwise indicated, costs for replacing or
- 47 restoring failing warranted units or products are the Contractor's and first tier
- 48 subcontractor's obligation, without regard for whether Owner has already benefited from
- 49 use through a portion of anticipated useful service lives.
- 50 9. Provide duplicate copies. Documents executed by subcontractors, suppliers and
- 51 manufacturers to be countersigned by the Contractor. Provide table of contents and
- 52 assemble in binder with durable blue color plastic cover with edge pocket.
- 53 10. Submit prior to final Application for Payment. For equipment put into use with Owner's
- 54 permission during construction, submit within 10 work days after first operation. For items

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- 1 of work delayed materially beyond Date of Substantial Completion, provide updated
- 2 submittal within ten days after acceptance, listing date of acceptance as start of warranty
- 3 period.
- 4 11. Disclaimers and Limitations: Manufacturer's disclaimers and limitations on product
- 5 warranties do not relieve the Contractor of the warranty on the work that incorporates the
- 6 products, nor do they relieve suppliers, manufacturers and installers required to
- 7 countersign special warranties with the Contractor.
- 8 12. Form of Warranty: The General Conditions of the Contract cover the Contractor's
- 9 responsibility to remedy defects due to faulty workmanship and materials which appear
- 10 within one year from the Owner accepted Date of Substantial Completion. Guarantees for
- 11 more than one year, where indicated in various sections of the Specifications, shall be in
- 12 the form of a warranty written on the letterhead of the Contractor, subcontractor or
- 13 supplier doing the work and/or supplying the item to be guaranteed. The format shall be
- 14 per Exhibit A at the end of this section.
- 15
- 16

1 **EXHIBIT A -FORM OF WARRANTY**

2 SECTION \_\_\_\_\_ WARRANTY FOR

3 We hereby warrant that the product, which we have installed, has been done in accordance with the  
4 Drawings and Specifications, and that the Work, as installed, will fulfill the requirements of the warranty  
5 included in the Specifications. We agree to repair or replace any or all of our work, together with any other  
6 and adjacent work which may be displaced by so doing, that may prove to be defective in its workmanship  
7 or material, within a period of years for correction period, and years for warranty period, from the Owner-  
8 accepted Date of Substantial Completion of the above-named structure, without any expense whatsoever  
9 to the Owner, ordinary wear and tear and unusual abuse or neglect excepted.

10 In the event of our failure to comply with the above-mentioned conditions within a reasonable time, but in  
11 no event longer than thirty days after being notified in writing by the Owner, we, collectively or separately,  
12 do hereby authorize the Owner to proceed to have said defects repaired and made good at our expense,  
13 and we will honor and pay the costs and charges therefore upon demand.

14 Signed: \_\_\_\_\_  
15 Subcontractor/Supplier  
16 License No.: \_\_\_\_\_

17 Countersigned: \_\_\_\_\_  
18 Contractor License No. \_\_\_\_\_

19 **END OF SECTION**



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1 E. Secure insulation batts within wall spaces to eliminate sagging prior and subsequent to  
2 concealment.

3 F. Tape seal butt ends, lapped flanges, and tears or cuts in membrane.

### 4 **3.03. PROTECTION OF FINISHED WORK**

5 A. Do not permit installed insulation to be damaged prior to its concealment.

6 **END OF SECTION**



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9. Include details of edge conditions, including eaves, ridges, valleys, rakes, crickets, and counterflashings as applicable.
10. Include details of special conditions.
11. Include details of connections to adjoining work.
12. Detail formed flashing and trim at scale of not less than 1-1/2 inches per 12 inches.

### 4.06. CLOSEOUT SUBMITTALS

- A. Maintenance Data: For sheet metal flashing and trim, and its accessories, to include in maintenance manuals.

### 4.07. QUALITY ASSURANCE

- A. Fabricator Qualifications: Employs skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.
  1. For copings and roof edge flashings that are SPRI ES-1 tested, shop shall be listed as able to fabricate required details as tested and approved.
- B. Provide the following upon request:
  1. Qualification Data: For fabricator.
  2. Product Certificates: For each type of coping and roof edge flashing that is SPRI ES-1 tested.
  3. Product Test Reports: For each product, for tests performed by a qualified testing agency.

### 4.08. DELIVERY, STORAGE, AND HANDLING

- A. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage. Store sheet metal flashing and trim materials away from uncured concrete and masonry.
- B. Protect strippable protective covering on sheet metal flashing and trim from exposure to sunlight and high humidity, except to extent necessary for period of sheet metal flashing and trim installation.

### 4.09. WARRANTY

- A. Special Warranty on Finishes: Manufacturer agrees to repair finish or replace sheet metal flashing and trim that shows evidence of deterioration of factory-applied finishes within specified warranty period.
  1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
    - a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
    - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
    - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
  2. Finish Warranty Period: 20 years from date of Substantial Completion.

## **PART 5 - PRODUCTS**

### **5.01. PERFORMANCE REQUIREMENTS**

- A. General: Sheet metal flashing and trim assemblies shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.
- B. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.
- C. Sheet Metal Standard for Copper: Comply with CDA's "Copper in Architecture Handbook." Conform to dimensions and profiles shown unless more stringent requirements are indicated.
- D. FM Approvals Listing: Manufacture and install copings roof edge flashings that are listed in FM Approvals' "RoofNav" and approved for windstorm classification, Class 1-90. Identify materials with name of fabricator and design approved by FM Approvals.

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1 E. SPRI Wind Design Standard: Manufacture and install [copings] [roof edge flashings] tested  
2 according to SPRI ES-1 and capable of resisting the following design pressure:  
3 1. Design Pressure: As indicated on Drawings.

4 F. Thermal Movements: Allow for thermal movements from ambient and surface temperature  
5 changes to prevent buckling, opening of joints, overstressing of components, failure of joint  
6 sealants, failure of connections, and other detrimental effects. Base calculations on surface  
7 temperatures of materials due to both solar heat gain and nighttime-sky heat loss.  
8 1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

### 9 **5.02. SHEET METALS**

10 A. General: Protect mechanical and other finishes on exposed surfaces from damage by applying  
11 strippable, temporary protective film before shipping.

### 12 **5.03. UNDERLAYMENT MATERIALS**

13 A. Self-Adhering, High-Temperature Sheet: Minimum 30 mils thick, consisting of a slip-resistant  
14 polyethylene or polypropylene-film top surface laminated to a layer of butyl- or SBS-modified  
15 asphalt adhesive, with release-paper backing; specifically designed to withstand high metal  
16 temperatures beneath metal roofing. Provide primer according to written recommendations of  
17 underlayment manufacturer.

18 1. Thermal Stability: ASTM D 1970; stable after testing at 240 deg F or higher.  
19 2. Low-Temperature Flexibility: ASTM D 1970; passes after testing at minus 20 deg F or  
20 lower.

21 B. Slip Sheet: Rosin-sized building paper, 3 lb./100 sq. ft. minimum.

### 22 **5.04. MISCELLANEOUS MATERIALS**

23 A. General: Provide materials and types of fasteners, solder, protective coatings, sealants, and  
24 other miscellaneous items as required for complete sheet metal flashing and trim installation  
25 and as recommended by manufacturer of primary sheet metal [ or manufactured item] unless  
26 otherwise indicated.

27 B. Solder:

28 1. For Zinc-Coated (Galvanized) Steel: ASTM B 32, Grade Sn50, 50 percent tin and 50  
29 percent lead or Grade Sn60, 60 percent tin and 40 percent lead.

30 C. Sealant Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealant tape  
31 with release-paper backing. Provide permanently elastic, nonsag, nontoxic, non-staining tape  
32 1/2 inch wide and 1/8 inch thick.

33 D. Elastomeric Sealant: ASTM C 920, elastomeric [polyurethane] [polysulfide] [silicone] polymer  
34 sealant; of type, grade, class, and use classifications required to seal joints in sheet metal  
35 flashing and trim and remain watertight.

36 E. Bituminous Coating: Cold-applied asphalt emulsion according to ASTM D 1187.

### 37 **5.05. FABRICATION GENERAL**

38 A. General: Custom fabricate sheet metal flashing and trim to comply with details shown and  
39 recommendations in cited sheet metal standard that apply to design, dimensions, geometry,  
40 metal thickness, and other characteristics of item required. Fabricate sheet metal flashing and  
41 trim in shop to greatest extent possible.

42 1. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with  
43 performance requirements, but not less than that specified for each application and metal.

44 2. Obtain field measurements for accurate fit before shop fabrication.

45 3. Form sheet metal flashing and trim to fit substrates without excessive oil canning,  
46 buckling, and tool marks; true to line, levels, and slopes; and with exposed edges folded  
47 back to form hems.

48 4. Conceal fasteners and expansion provisions where possible. Do not use exposed  
49 fasteners on faces exposed to view.

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- 1 B. Fabrication Tolerances: Fabricate sheet metal flashing and trim that is capable of installation to  
2 a tolerance of 1/4 inch in 20 feet on slope and location lines indicated on Drawings and within  
3 1/8-inch offset of adjoining faces and of alignment of matching profiles.
- 4 C. Expansion Provisions: Form metal for thermal expansion of exposed flashing and trim.  
5 1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled  
6 with butyl sealant concealed within joints.  
7 2. Use lapped expansion joints only where indicated on Drawings.
- 8 D. Sealant Joints: Where movable, nonexpansion-type joints are required, form metal to provide  
9 for proper installation of elastomeric sealant according to cited sheet metal standard.
- 10 E. Fabricate cleats and attachment devices from same material as accessory being anchored or  
11 from compatible, noncorrosive metal.
- 12 F. Fabricate cleats and attachment devices of sizes as recommended by cited sheet metal  
13 standard and by FM Global Property Loss Prevention Data Sheet 1-49 for application, but not  
14 less than thickness of metal being secured.
- 15 G. Seams: Fabricate nonmoving seams with flat-lock seams. Tin edges to be seamed, form  
16 seams, and solder.
- 17 H. Seams: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with  
18 elastomeric sealant unless otherwise recommended by sealant manufacturer for intended use.  
19 Rivet joints where necessary for strength.
- 20 I. Seams for Aluminum: Fabricate nonmoving seams with flat-lock seams. Form seams and seal  
21 with epoxy seam sealer. Rivet joints where necessary for strength.
- 22 J. Do not use graphite pencils to mark metal surfaces.

### 5.06. LOW-SLOPE ROOF SHEET METAL FABRICATION

- 24 A. Cap Flashing/Counterflashing Fabrication - General: Provide two-piece metal cap flashings,  
25 consisting of an upper receiver portion and a lower portion extending over the composition  
26 flashing, unless otherwise specified or indicated.
- 27 1. Cap Flashing/Counterflashing Fabrication - Two Piece  
28 a. Fabricate the receiver portion with outer edge formed into a double fold turned down  
29 one inch, unless otherwise indicated, and as follows:  
30 1) *At walls faced with metal siding or pre-formed metal panels, extend the receiver*  
31 *portion into the wall as indicated, and terminated with edge folded over support.*  
32 2) *At parapet, extend the receiver portion over wood blocking as indicated.*  
33 3) *At parapet, extend the receiver portion as indicated and form the upper edge to*  
34 *engage the double fold of coping*
- 35 b. Form the upper edge of the lower portion of metal cap flashing to engage in the  
36 double fold of receiver portion, bent to provide spring action against the base flashing,  
37 fold the lower edge folded back 1/2 inch and lap composition base flashing not less  
38 than 4 inches.
- 39 c. Lap ends of each length of both portions of metal cap flashing not less than 3 inches.  
40 Weld or solder corner joints. Return ends at roof edge into reglet or wall.

### 5.07. WALL SHEET METAL FABRICATION

- 42 A. Opening Flashings in Frame Construction: Fabricate head, sill, jamb, and similar flashings to  
43 extend 4 inches beyond wall openings. Form head and sill flashing with 2-inch- high, end dams.  
44 Fabricate from the following materials:  
45 1. Galvanized Steel: 0.022 inch thick.

## PART 6 - EXECUTION

### 6.01. EXAMINATION

- 48 A. Examine substrates, areas, and conditions, with Installer present, for compliance with  
49 requirements for installation tolerances, substrate, and other conditions affecting performance of  
50 the Work.

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- 1 1. Verify compliance with requirements for installation tolerances of substrates.
- 2 2. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely
- 3 anchored.
- 4 3. Verify that air- or water-resistant barriers have been installed over sheathing or backing
- 5 substrate to prevent air infiltration or water penetration.

6 B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 7 **6.02. UNDERLAYMENT INSTALLATION**

8 A. Self-Adhering Sheet Underlayment: Install self-adhering sheet underlayment, wrinkle free.  
9 Prime substrate if recommended by underlayment manufacturer. Comply with temperature  
10 restrictions of underlayment manufacturer for installation; use primer for installing underlayment  
11 at low temperatures. Apply in shingle fashion to shed water, with end laps of not less than 6  
12 inches staggered 24 inches between courses. Overlap side edges not less than 3-1/2 inches.  
13 Roll laps and edges with roller. Cover underlayment within 14 days.

14 B. Apply slip sheet, wrinkle free, over underlayment before installing sheet metal flashing and trim.

### 15 **6.03. INSTALLATION, GENERAL**

16 A. General: Anchor sheet metal flashing and trim and other components of the Work securely in  
17 place, with provisions for thermal and structural movement. Use fasteners [solder], protective  
18 coatings, separators, sealants, and other miscellaneous items as required to complete sheet  
19 metal flashing and trim system.

20 1. Install sheet metal flashing and trim true to line, levels, and slopes. Provide uniform, neat  
21 seams with minimum exposure of solder, welds, and sealant.

22 2. Install sheet metal flashing and trim to fit substrates and to result in watertight  
23 performance. Verify shapes and dimensions of surfaces to be covered before fabricating  
24 sheet metal.

25 3. Space cleats not more than 12 inches apart. Attach each cleat with at least two fasteners.  
26 Bend tabs over fasteners.

27 4. Install exposed sheet metal flashing and trim with limited oil canning, and free of buckling  
28 and tool marks.

29 5. Torch cutting of sheet metal flashing and trim is not permitted.

30 6. Do not use graphite pencils to mark metal surfaces.

31 B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts  
32 pressure-treated wood or other corrosive substrates, protect against galvanic action or  
33 corrosion by painting contact surfaces with bituminous coating or by other permanent  
34 separation as recommended by sheet metal manufacturer or cited sheet metal standard.

35 1. Coat concealed side of [uncoated-aluminum] [and] [stainless-steel] sheet metal flashing  
36 and trim with bituminous coating where flashing and trim contact wood, ferrous metal, or  
37 cementitious construction.

38 2. Underlayment: Where installing sheet metal flashing and trim directly on cementitious or  
39 wood substrates, install underlayment and cover with slip sheet.

40 C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space  
41 movement joints at maximum of 10 feet with no joints within 24 inches of corner or intersection.

42 1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled  
43 with sealant concealed within joints.

44 2. Use lapped expansion joints only where indicated on Drawings.

45 D. Fasteners: Use fastener sizes that penetrate substrate not less than recommended by fastener  
46 manufacturer to achieve maximum pull-out resistance.

47 E. Conceal fasteners and expansion provisions where possible in exposed work and locate to  
48 minimize possibility of leakage. Cover and seal fasteners and anchors as required for a tight  
49 installation.

50 F. Seal joints as required for watertight construction.

51 1. Use sealant-filled joints unless otherwise indicated. Embed hooked flanges of joint  
52 members not less than 1 inch into sealant. Form joints to completely conceal sealant.

Verify compliance with requirements for installation tolerances of substrates.

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- 1                   When ambient temperature at time of installation is between 40 and 70 deg F, set joint  
2                   members for 50 percent movement each way. Adjust setting proportionately for installation  
3                   at higher ambient temperatures. Do not install sealant-type joints at temperatures below  
4                   40 deg F.
- 5                   2. Prepare joints and apply sealants to comply with requirements in Section 07 9200 "Joint  
6                   Sealants."
- 7                   G. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter. Pre-tin edges  
8                   of sheets with solder to width of 1-1/2 inches; however, reduce pre-tinning where pre-tinned  
9                   surface would show in completed Work

### 10                   **6.04. ROOF FLASHING INSTALLATION**

- 11                   A. General: Install sheet metal flashing and trim to comply with performance requirements, sheet  
12                   metal manufacturer's written installation instructions, and cited sheet metal standard. Provide  
13                   concealed fasteners where possible, and set units true to line, levels, and slopes. Install work  
14                   with laps, joints, and seams that are permanently watertight and weather resistant.
- 15                   B. Roof Edge Flashing: Anchor to resist uplift and outward forces according to recommendations in  
16                   cited sheet metal standard unless otherwise indicated. Interlock bottom edge of roof edge  
17                   flashing with continuous cleat anchored to substrate at staggered 3-inch centers.
- 18                   C. Roof Edge Flashing: Anchor to resist uplift and outward forces according to recommendations in  
19                   FM Global Property Loss Prevention Data Sheet 1-49 for FM Approvals' listing for required  
20                   windstorm classification.
- 21                   D. Copings: Anchor to resist uplift and outward forces according to recommendations in FM Global  
22                   Property Loss Prevention Data Sheet 1-49 for specified FM Approvals' listing for required  
23                   windstorm classification.
- 24                   E. Pipe or Post Counterflashing: Install counterflashing umbrella with close-fitting collar with top  
25                   edge flared for elastomeric sealant, extending minimum of 4 inches over base flashing. Install  
26                   stainless-steel draw band and tighten.
- 27                   F. Roof-Penetration Flashing: Coordinate installation of roof-penetration flashing with installation of  
28                   roofing and other items penetrating roof. Seal with elastomeric sealant and clamp flashing to  
29                   pipes that penetrate the roof.

### 30                   **6.05. WALL FLASHING INSTALLATION**

- 31                   A. General: Install sheet metal wall flashing to intercept and exclude penetrating moisture  
32                   according to cited sheet metal standard unless otherwise indicated. Coordinate installation of  
33                   wall flashing with installation of wall-opening components such as windows, doors, and louvers.
- 34                   B. Opening Flashings in Frame Construction: Install continuous head, sill, jamb, and similar  
35                   flashings to extend 4 inches beyond wall openings.

### 36                   **6.06. ERECTION TOLERANCES**

- 37                   A. Installation Tolerances: Shim and align sheet metal flashing and trim within installed tolerance  
38                   of 1/4 inch in 20 feet on slope and location lines indicated on Drawings and within 1/8-inch  
39                   offset of adjoining faces and of alignment of matching profiles.
- 40                   B. Installation Tolerances: Shim and align sheet metal flashing and trim within installed tolerances  
41                   specified in MCA's "Guide Specification for Residential Metal Roofing."

### 42                   **6.07. CLEANING AND PROTECTION**

- 43                   A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and  
44                   weathering.
- 45                   B. Clean and neutralize flux materials. Clean off excess solder.
- 46                   C. Clean off excess sealants.
- 47                   D. Remove temporary protective coverings and strippable films as sheet metal flashing and trim  
48                   are installed unless otherwise indicated in manufacturer's written installation instructions. On  
49                   completion of sheet metal flashing and trim installation, remove unused materials and clean  
50                   finished surfaces as recommended by sheet metal flashing and trim manufacturer. Maintain  
51                   sheet metal flashing and trim in clean condition during construction.

When ambient temperature at time of installation is between 40 and 70 deg F, set joint members for 50 percent movement each way. Adjust setting proportionately for installation at higher ambient temperatures. Do not install sealant-type joints at temperatu

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- E. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

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**SECTION 07 7200  
ROOF ACCESSORIES**

**PART 7 - GENERAL**

**7.01. RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

**7.02. SUMMARY**

- A. Section Includes:
1. Roof curbs.
  2. Equipment supports.

**7.03. COORDINATION**

- A. Coordinate layout and installation of roof accessories with roofing membrane and base flashing and interfacing and adjoining construction to provide a leakproof, weathertight, secure, and noncorrosive installation.
- B. Coordinate dimensions with rough-in information or Shop Drawings of equipment to be supported.

**7.04. ACTION SUBMITALS**

- A. Submittal Compliance Form: If Basis-of-Design products are provided, Submittal Compliance Form may be submitted in lieu of required Product Data submittal and Samples submittal. Ensure compliance with requirements included in Section 01 3300 "Submittal Procedures."
- B. Product Data: For each type of roof accessory.
1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- C. Shop Drawings: For roof accessories.
1. Include plans, elevations, keyed details, and attachments to other work. Indicate dimensions, loadings, and special conditions. Distinguish between plant- and field-assembled work.
- D. Delegated-Design Submittal: For roof curbs equipment supports indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
1. Detail mounting, securing, and flashing of roof-mounted items to roof structure. Indicate coordinating requirements with roof membrane system.
  2. Wind-Restraint Details: Detail fabrication and attachment of wind restraints. Show anchorage details and indicate quantity, diameter, and depth of penetration of anchors.

**7.05. INFORMATIONAL SUBMITALS**

- A. Coordination Drawings: Roof plans, drawn to scale, and coordinating penetrations and roof-mounted items. Show the following:
1. Size and location of roof accessories specified in this Section.
  2. Method of attaching roof accessories to roof or building structure.
  3. Other roof-mounted items including mechanical and electrical equipment, ductwork, piping, and conduit.
  4. Required clearances.
- B. Sample Warranties: For manufacturer's special warranties.

**7.06. CLOSEOUT SUBMITALS**

- A. Operation and Maintenance Data: For roof accessories to include in operation and maintenance manuals.

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**7.07. WARRANTY**

- A. Special Warranty on Painted Finishes: Manufacturer's standard form in which manufacturer agrees to repair finishes or replace roof accessories that show evidence of deterioration of factory-applied finishes within specified warranty period.
  - 1. Fluoropolymer Finish: Deterioration includes, but is not limited to, the following:
    - a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
    - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
    - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
  - 2. Finish Warranty Period: 20 years from date of Substantial Completion.

**PART 8 - PRODUCTS**

**8.01. PERFORMANCE REQUIREMENTS**

- A. General Performance: Roof accessories shall withstand exposure to weather and resist thermally induced movement without failure, rattling, leaking, or fastener disengagement due to defective manufacture, fabrication, installation, or other defects in construction.
- B. Delegated Design: Engage a qualified professional engineer, as defined in Section 01 4000 "Quality Requirements," to design [roof curbs] [and] [equipment supports] to comply with wind performance requirements, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- C. Wind-Restraint Performance: As indicated on Drawings.

**8.02. ROOF CURBS**

- A. Roof Curbs: Internally reinforced roof-curb units capable of supporting superimposed live and dead loads, including equipment loads and other construction indicated on Drawings, bearing continuously on roof structure, and capable of meeting performance requirements; with welded or mechanically fastened and sealed corner joints,[ straight sides,] [ integral metal cant,] [ stepped integral metal cant raised the thickness of roof insulation,] and integrally formed deck-mounting flange at perimeter bottom.
- B. Size: Coordinate dimensions with roughing-in information or Shop Drawings of equipment to be supported.
- C. Material: Zinc-coated (galvanized) steel sheet, 24 gage min. thick.
- D. Construction:
  - 1. Curb Profile: [Manufacturer's standard] [Profile as indicated on Drawings] compatible with roofing system.
  - 2. On ribbed or fluted metal roofs, form deck-mounting flange at perimeter bottom to conform to roof profile.
  - 3. Fabricate curbs to minimum height of 12 inches above roofing surface unless otherwise indicated.
  - 4. Top Surface: Level top of curb, with roof slope accommodated by sloping deck-mounting flange.
  - 5. Insulation: Factory insulated with 1-1/2-inch- thick glass-fiber board insulation.
  - 6. Liner: Same material as curb, of manufacturer's standard thickness and finish.
  - 7. Nailer: Factory-installed wood nailer [along top flange of curb] [under top flange on side of curb], continuous around curb perimeter.
  - 8. Wind Restraint Straps and Base Flange Attachment: Provide wind restraint straps, welded strap connectors, and base flange attachment to roof structure at perimeter of curb, of size and spacing required to meet wind uplift requirements.
  - 9. Platform Cap: Where portion of roof curb is not covered by equipment, provide weathertight platform cap formed from 3/4-inch-thick plywood covered with metal sheet of same type, thickness, and finish as required for curb.
  - 10. Metal Counterflashing: Manufacturer's standard, removable, fabricated of same metal and finish as curb.

1           **8.03. EQUIPMENT SUPPORTS**

- 2           A. Equipment Supports: [Internally reinforced perimeter] [Rail-type] metal equipment supports  
3           capable of supporting superimposed live and dead loads between structural supports, including  
4           equipment loads and other construction indicated on Drawings, spanning between structural  
5           supports; capable of meeting performance requirements; with welded or mechanically fastened  
6           and sealed corner joints, integral metal can't, and integrally formed structure-mounting flange at  
7           bottom.
- 8           B. Size: Coordinate dimensions with roughing-in information or Shop Drawings of equipment to be  
9           supported.
- 10          C. Material: Zinc-coated (galvanized) steel sheet, 0.079 inch thick.
- 11          D. Construction:
- 12           1. Curb Profile: Manufacturer's standard compatible with roofing system.
- 13           2. Insulation: Factory insulated with 1-1/2-inch- thick glass-fiber board insulation.
- 14           3. Liner: Same material as equipment support, of manufacturer's standard thickness and  
15           finish.
- 16           4. Nailer: Factory-installed continuous wood nailers 3-1/2 incheswide on top flange of  
17           equipment supports or under top flange on side of curb, continuous around support  
18           perimeter.
- 19           5. Wind Restraint Straps and Base Flange Attachment: Provide wind restraint straps, welded  
20           strap connectors, and base flange attachment to roof structure at perimeter of curb of size  
21           and spacing required to meet wind uplift requirements.
- 22           6. Platform Cap: Where portion of equipment support is not covered by equipment, provide  
23           weathertight platform cap formed from 3/4-inch thick plywood covered with metal sheet of  
24           same type, thickness, and finish as required for curb.
- 25           7. Metal Counterflashing: Manufacturer's standard, removable, fabricated of same metal and  
26           finish as equipment support.
- 27           8. On ribbed or fluted metal roofs, form deck-mounting flange at perimeter bottom to conform  
28           to roof profile.
- 29           9. Fabricate equipment supports to minimum height of 12 inches above roofing surface  
30           unless otherwise indicated.

31           **8.04. METAL MATERIALS**

- 32          A. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653/A 653M, G90 coating designation [ and mill  
33          phosphatized for field painting where indicated].
- 34           1. Exposed Coil-Coated Finish: Prepainted by the coil-coating process to comply with ASTM  
35           A 755/A 755M. Prepare, pretreat, and apply coating to exposed metal surfaces to comply  
36           with coating and resin manufacturers' written instructions.
- 37           a. Two-Coat Fluoropolymer Finish: AAMA 621. System consisting of primer and  
38           fluoropolymer color topcoat containing not less than 70 percent PVDF resin by  
39           weight.
- 40           2. Concealed Finish: Pretreat with manufacturer's standard white or light-colored acrylic or  
41           polyester-backer finish consisting of prime coat and wash coat, with a minimum total dry  
42           film thickness of 0.5 mil.

43           **8.05. MISCELLANEOUS MATERIALS**

- 44          A. General: Provide materials and types of fasteners, protective coatings, sealants, and other  
45          miscellaneous items required by manufacturer for a complete installation.
- 46          B. Wood Nailers: Softwood lumber, pressure treated with waterborne preservatives for  
47          aboveground use, acceptable to authorities having jurisdiction, containing no arsenic or  
48          chromium, and complying with AWPAC2; not less than 1-1/2 inches thick.
- 49          C. Underlayment:
- 50           1. Self-Adhering, High-Temperature Sheet: Minimum 30 to 40 mils thick, consisting of slip-  
51           resisting polyethylene-film top surface laminated to layer of butyl or SBS-modified asphalt  
52           adhesive, with release-paper backing; cold applied. Provide primer when recommended  
53           by underlayment manufacturer.

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- 1                                   2. Fasteners: Roof accessory manufacturer's recommended fasteners suitable for  
2                                   application and metals being fastened. Match finish of exposed fasteners with finish of  
3                                   material being fastened. Provide nonremovable fastener heads to exterior exposed  
4                                   fasteners. Furnish the following unless otherwise indicated.
- 5                                   3. Fasteners for Zinc-Coated or Aluminum-Zinc Alloy-Coated Steel: Series 300 stainless  
6                                   steel or hot-dip zinc-coated steel according to ASTM A 153/A 153M or ASTM F 2329.
- 7                                   D. Gaskets: Manufacturer's standard tubular or fingered design of neoprene, EPDM, PVC, or  
8                                   silicone or a flat design of foam rubber, sponge neoprene, or cork.
- 9                                   E. Elastomeric Sealant: ASTM C 920, elastomeric [polyurethane] [silicone] polymer sealant as  
10                                  recommended by roof accessory manufacturer for installation indicated; low modulus; of type,  
11                                  grade, class, and use classifications required to seal joints and remain watertight.

### 12                                  **8.06. GENERAL FINISH REQUIREMENTS**

- 13                                  A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for  
14                                  recommendations for applying and designating finishes.
- 15                                  B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable.  
16                                  Variations in appearance of adjoining components are acceptable if they are within the range of  
17                                  approved Samples and are assembled or installed to minimize contrast.

## 18                                  **PART 9 - EXECUTION**

### 19                                  **9.01. EXAMINATION**

- 20                                  A. Examine substrates, areas, and conditions, with Installer present, to verify actual locations,  
21                                  dimensions, and other conditions affecting performance of the Work.
- 22                                  B. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.
- 23                                  C. Verify dimensions of roof openings for roof accessories.
- 24                                  D. Proceed with installation only after unsatisfactory conditions have been corrected.

### 25                                  **9.02. INSTALLATION**

- 26                                  A. General: Install roof accessories according to manufacturer's written instructions.
  - 27                                   1. Install roof accessories level; plumb; true to line and elevation; and without warping, jogs  
28                                   in alignment, buckling, or tool marks.
  - 29                                   2. Anchor roof accessories securely in place so they are capable of resisting indicated loads.
  - 30                                   3. Use fasteners, separators, sealants, and other miscellaneous items as required to  
31                                   complete installation of roof accessories and fit them to substrates.
  - 32                                   4. Install roof accessories to resist exposure to weather without failing, rattling, leaking, or  
33                                   loosening of fasteners and seals.
- 34                                  B. Metal Protection: Protect metals against galvanic action by separating dissimilar metals from  
35                                  contact with each other or with corrosive substrates by painting contact surfaces with  
36                                  bituminous coating or by other permanent separation as recommended by manufacturer.
  - 37                                   1. Underlayment: Where installing roof accessories directly on cementitious or wood  
38                                   substrates, install a course of underlayment and cover with manufacturer's recommended  
39                                   slip sheet.
  - 40                                   2. Bed flanges in thick coat of asphalt roofing cement where required by manufacturers of  
41                                   roof accessories for waterproof performance.
- 42                                  C. Roof Curb Installation: Install each roof curb so top surface is level.
  - 43                                   1. Attach curbs to wood nailer on roof deck with wood screws.
  - 44                                   2. Weld curbs to metal roof deck.

### 45                                  **9.03. REPAIR AND CLEANING**

- 46                                  A. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair  
47                                  galvanizing according to ASTM A 780/A 780M.

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- 1 B. Touch up factory-primed surfaces with compatible primer ready for field painting according to
- 2 Section 09 9113 "Exterior Painting."
- 3 C. Clean exposed surfaces according to manufacturer's written instructions.
- 4 D. Clean off excess sealants.
- 5 E. Replace roof accessories that have been damaged or that cannot be successfully repaired by
- 6 finish touchup or similar minor repair procedures.
- 7

**SECTION 07 8400  
FIRESTOPPING**

**PART 1 - GENERAL**

**1.01. RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

**1.02. SUMMARY**

- A. This Section includes firestopping for the following:
- B. Penetrations through fire-resistance-rated walls and partitions including both empty openings and openings containing cables, pipes, ducts, conduits, and other penetrating items.
- C. Penetrations through smoke barriers and construction enclosing compartmentalized areas involving both empty openings and openings containing penetrating items.
- D. Sealant joints in fire-resistance-rated construction.
- E. Related Sections: The following Sections contain requirements that relate to this Section:
- F. Section 07 2100 "Batt Insulation" for safing insulation and accessories.
- G. Section 07 900 "Joint Sealants" for non-fire-resistive-rated joint sealants.

**1.03. SYSTEM PERFORMANCE REQUIREMENTS**

- A. General: Provide firestopping systems that are produced and installed to resist the spread of fire, according to requirements indicated, and the passage of smoke and other gases.
- B. F-Rated Through-Penetration Firestop Systems: Provide through-penetration firestop systems with F ratings indicated, as determined per ASTM E 814, but not less than that equaling or exceeding the fire-resistance rating of the constructions penetrated.
- C. T-Rated Through-Penetration Firestop Systems: Provide through-penetration firestop systems with T ratings, in addition to F ratings, as determined per ASTM E 814, where indicated and where systems protect penetrating items exposed to contact with adjacent materials in occupiable floor areas. T-rated assemblies are required where the following conditions exist:
  - 1. Where firestop systems protect penetrations located in construction containing doors required to have a temperature-rise rating.
- D. Fire-Resistive Joint Sealants: Provide joint sealants with fire-resistance ratings indicated, as determined per ASTM E 119, but not less than that equaling or exceeding the fire-resistance rating of the construction in which the joint occurs.
- F. For firestopping exposed to view, traffic, moisture, and physical damage, provide products that do not deteriorate when exposed to these conditions.
- G. For piping penetrations for plumbing and wet-pipe sprinkler systems, provide moisture-resistant through-penetration firestop systems.
- H. For penetrations involving insulated piping, provide through-penetration firestop systems not requiring removal of insulation.
- I. For firestopping exposed to view, provide products with flame-spread values of less than 25 and smoke-developed values of less than 450, as determined per ASTM E 84.

**1.04. SUBMITTALS**

- A. General: Submit the following according to Conditions of Contract and Division 1 Specification Sections.
- B. Product data for each type of product specified.
- C. Certification by firestopping manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs) and are nontoxic to building occupants.

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- 1 D. Shop drawings detailing materials, installation methods, and relationships to adjoining  
2 construction for each through-penetration firestop system, and each kind of construction  
3 condition penetrated and kind of penetrating item. Include firestop design designation of  
4 qualified testing and inspecting agency evidencing compliance with requirements for each  
5 condition indicated.
- 6 E. Submit documentation, including illustrations, from a qualified testing and inspecting agency  
7 that is applicable to each through-penetration firestop configuration for construction and  
8 penetrating items.
- 9 F. Product certificates signed by manufacturers of firestopping products certifying that their  
10 products comply with specified requirements.
- 11 G. Product test reports from, and based on tests performed by, a qualified testing and inspecting  
12 agency evidencing compliance of firestopping with requirements based on comprehensive  
13 testing of current products.
- 14 H. Qualification data for firms and persons specified in "Quality Assurance" article to demonstrate  
15 their capabilities and experience. Include list of completed projects with project names,  
16 addresses, names of Architects and Owners, and other information specified.

### 17 1.05. QUALITY ASSURANCE

- 18 A. Fire-Test-Response Characteristics: Provide firestopping that complies with the following  
19 requirements and those specified under the "System Performance Requirements" article:
- 20 B. Firestopping tests are performed by a qualified testing and inspecting agency. A qualified  
21 testing and inspecting agency is UL, Warnock Hersey, or another agency performing testing  
22 and follow-up inspection services for firestop systems that is acceptable to authorities having  
23 jurisdiction.
- 24 C. Through-penetration firestop systems are identical to those tested per ASTM E 814 under  
25 conditions where positive furnace pressure differential of at least 0.01 inch of water is  
26 maintained at a distance of 0.78 inch below the fill materials surrounding the penetrating items  
27 in the test assembly. Provide rated systems complying with the following requirements:
- 28 D. Through-penetration firestop system products bear classification marking of qualified testing  
29 and inspecting agency.
- 30 E. Through-penetration firestop systems correspond to those indicated by reference to  
31 through-penetration firestop system designations listed by UL in their "Fire Resistance  
32 Directory," by Warnock Hersey, or by another approved qualified testing and inspecting agency.
- 33 F. Fire-resistive joint sealant systems are identical to those tested for fire-response characteristics  
34 per ASTM E 119 under conditions where the positive furnace pressure differential is at least  
35 0.01 inch of water, as measured 0.78 inch from the face exposed to furnace fire. Provide  
36 systems complying with the following requirements:
- 37 G. Fire-Resistance Ratings of Joint Sealants: As indicated by reference to design designations  
38 listed by UL in their "Fire Resistance Directory" or by another qualified testing and inspecting  
39 agency.
- 40 H. Joint sealants, including backing materials, bear classification marking of qualified testing and  
41 inspection agency.
- 42 I. Information on drawings referring to specific design designations of through-penetration firestop  
43 systems is intended to establish requirements for performance based on conditions that are  
44 expected to exist during installation. Any changes in conditions and designated systems require  
45 the Architect's prior approval. Submit documentation showing that the performance of proposed  
46 substitutions equals or exceeds that of the systems they would replace and are acceptable to  
47 authorities having jurisdiction.
- 48 J. Installer Qualifications: Engage an experienced Installer who has completed firestopping that is  
49 similar in material, design, and extent to that indicated for Project and that has performed  
50 successfully.
- 51 K. Single-Source Responsibility: Obtain through-penetration firestop systems for each kind of  
52 penetration and construction condition indicated from a single manufacturer.

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- 1 L. Provide firestopping products containing no detectable asbestos as determined by the method  
2 specified in 40 CFR Part 763, Subpart F, Appendix A, Section 1, "Polarized Light Microscopy."  
3 M. Coordinating Work: Coordinate construction of openings and penetrating items to ensure that  
4 designated through-penetration firestop systems are installed per specified requirements.

### 5 **1.06. DELIVERY, STORAGE, AND HANDLING**

- 6 A. Deliver firestopping products to Project site in original, unopened containers or packages with  
7 intact and legible manufacturers' labels identifying product and manufacturer; date of  
8 manufacture; lot number; shelf life, if applicable; qualified testing and inspecting agency's  
9 classification marking applicable to Project; curing time; and mixing instructions for  
10 multicomponent materials.  
11 B. Store and handle firestopping materials to prevent their deterioration or damage due to  
12 moisture, temperature changes, contaminants, or other causes.

### 13 **1.07. PROJECT CONDITIONS**

- 14 A. Environmental Conditions: Do not install firestopping when ambient or substrate temperatures  
15 are outside limits permitted by firestopping manufacturers or when substrates are wet due to  
16 rain, frost, condensation, or other causes.  
17 B. Ventilation: Ventilate firestopping per firestopping manufacturers' instructions by natural means  
18 or, where this is inadequate, forced air circulation.

### 19 **1.08. SEQUENCING AND SCHEDULING**

- 20 A. Do not cover up those firestopping installations that will become concealed behind other  
21 construction until authorities having jurisdiction, if required, have examined each installation.

## 22 **PART 2 - PRODUCTS**

### 23 **2.01. FIRESTOPPING, GENERAL**

- 24 A. Compatibility: Provide firestopping composed of components that are compatible with each  
25 other, the substrates forming openings, and the items, if any, penetrating the firestopping under  
26 conditions of service and application, as demonstrated by firestopping manufacturer based on  
27 testing and field experience.  
28 B. Accessories: Provide components for each firestopping system that are needed to install fill  
29 materials and to comply with "System Performance Requirements" article in Part 1. Use only  
30 components specified by the firestopping manufacturer and approved by the qualified testing  
31 and inspecting agency for the designated fire-resistance-rated systems. Accessories include but  
32 are not limited to the following items:  
33 1. Permanent forming/damming/backing materials including the following:  
34 2. Semirefractory fiber (mineral wool) insulation.  
35 3. Joint fillers for joint sealants.  
36 4. Temporary forming materials.  
37 5. Substrate primers.  
38 6. Collars.  
39 C. Applications: Provide firestopping systems composed of materials specified in this Section that  
40 comply with system performance and other requirements.  
41 D. **FILL MATERIALS FOR THROUGH-PENETRATION FIRESTOP SYSTEMS**  
42 1. Endothermic, Latex Compound Sealant: Single-component, endothermic, latex  
43 formulation.  
44 2. Intumescent, Latex Sealant: Single-component, intumescent, latex formulation.  
45 3. Intumescent Putty: Nonhardening, dielectric, water-resistant putty containing no solvents,  
46 inorganic fibers, or silicone compounds.  
47 4. Intumescent Wrap Strips: Single-component, elastomeric sheet with aluminum foil on one  
48 side.

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- 1 E. Available Products: Subject to compliance with requirements, products that may be  
2 incorporated in the Work include, but are not limited to, the following:
- 3 F. Endothermic, Latex Sealant:
- 4 1. Fyre-Shield, Tremco Inc.  
5 2. Endothermic, Latex Compounds:  
6 3. Flame-Safe FS500/600 Series, International Protective Coatings Corp.  
7 4. Flame-Safe FS900/FST900 Series, International Protective Coatings Corp.
- 8 G. Intumescent Latex Sealant:
- 9 1. Metacaulk 950, The RectorSeal Corporation.  
10 2. Fire Barrier CP 25WB Caulk, 3M Fire Protection Products.
- 11 H. Intumescent Putty:
- 12 1. Pensil 500 Intumescent Putty, General Electric Co.  
13 2. Flame-Safe FSP1000 Putty, International Protective Coatings Corp.  
14 3. Fire Barrier Moldable Putty, 3M Fire Protection Products.
- 15 I. Intumescent Wrap Strips:
- 16 1. Dow Corning Fire Stop Intumescent Wrap Strip 2002, Dow Corning Corp.  
17 2. CS2420 Intumescent Wrap, Hilti Construction Chemicals, Inc.  
18 3. Fire Barrier FS-195 Wrap/Strip, 3M Fire Protection Products.
- 19 J. Job-Mixed Vinyl Compound:
- 20 1. USG Firecode Compound, United States Gypsum Co.

### 21 2.02. MIXING

- 22 A. For those products requiring mixing prior to application, comply with firestopping manufacturer's  
23 directions for accurate proportioning of materials, water (if required), type of mixing equipment,  
24 selection of mixer speeds, mixing containers, mixing time, and other procedures needed to  
25 produce firestopping products of uniform quality with optimum performance characteristics for  
26 application indicated.

## 27 **PART 3 - EXECUTION**

### 28 3.01. EXAMINATION

- 29 A. Examine substrates and conditions, with Installer present, for compliance with requirements for  
30 opening configurations, penetrating items, substrates, and other conditions affecting  
31 performance of firestopping. Do not proceed with installation until unsatisfactory conditions have  
32 been corrected.

### 33 3.02. PREPARATION

- 34 A. Surface Cleaning: Clean out openings and joints immediately prior to installing firestopping to  
35 comply with recommendations of firestopping manufacturer and the following requirements:
- 36 B. Remove all foreign materials from surfaces of opening and joint substrates and from penetrating  
37 items that could interfere with adhesion of firestopping.
- 38 C. Clean opening and joint substrates and penetrating items to produce clean, sound surfaces  
39 capable of developing optimum bond with firestopping. Remove loose particles remaining from  
40 cleaning operation.
- 41 D. Remove laitance and form release agents from concrete.
- 42 E. Priming: Prime substrates where recommended by firestopping manufacturer using that  
43 manufacturer's recommended products and methods. Confine primers to areas of bond; do not  
44 allow spillage and migration onto exposed surfaces.
- 45 F. Masking Tape: Use masking tape to prevent firestopping from contacting adjoining surfaces that  
46 will remain exposed upon completion of Work and that would otherwise be permanently stained  
47 or damaged by such contact or by cleaning methods used to remove smears from firestopping

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1 materials. Remove tape as soon as it is possible to do so without disturbing firestopping's seal  
2 with substrates.

### 3 **3.03. INSTALLING THROUGH-PENETRATION FIRESTOPS**

4 A. General: Comply with the "System Performance Requirements" article in Part 1 and the  
5 through-penetration firestop manufacturer's installation instructions and drawings pertaining to  
6 products and applications indicated.

7 B. Install forming/damming materials and other accessories of types required to support fill  
8 materials during their application and in the position needed to produce the cross-sectional  
9 shapes and depths required to achieve fire ratings of designated through-penetration firestop  
10 systems. After installing fill materials, remove combustible forming materials and other  
11 accessories not indicated as permanent components of firestop systems.

12 C. Install fill materials for through-penetration firestop systems by proven techniques to produce  
13 the following results:

14 D. Completely fill voids and cavities formed by openings, forming materials, accessories, and  
15 penetrating items.

16 E. Apply materials so they contact and adhere to substrates formed by openings and penetrating  
17 items.

18 F. or fill materials that will remain exposed after completing Work, finish to produce smooth,  
19 uniform surfaces that are flush with adjoining finishes.

### 20 **3.04. INSTALLING FIRE-RESISTIVE JOINT SEALANTS**

21 A. General: Comply with the "System Performance Requirements" article in Part 1, with ASTM C  
22 1193, and with the sealant manufacturer's installation instructions and drawings pertaining to  
23 products and applications indicated.

24 B. Install joint fillers to provide support of sealants during application and at position required to  
25 produce the cross-sectional shapes and depths of installed sealants relative to joint widths that  
26 allow optimum sealant movement capability and develop fire-resistance rating required.

27 C. Install sealants by proven techniques that result in sealants directly contacting and fully wetting  
28 joint substrates, completely filling recesses provided for each joint configuration, and providing  
29 uniform, cross-sectional shapes and depths relative to joint width that optimum sealant  
30 movement capability. Install sealants at the same time joint fillers are installed.

31 D. Tool non-sag sealants immediately after sealant application and prior to the time skinning or  
32 curing begins. Form smooth, uniform beads of configuration indicated or required to produce  
33 fire-resistance rating, as well as to eliminate air pockets, and to ensure contact and adhesion of  
34 sealants with sides of joint. Remove excess sealant from surfaces adjacent to joint. Do not use  
35 tooling agents that discolor sealants or adjacent surfaces or are not approved by sealant  
36 manufacturer.

### 37 **3.05. FIELD QUALITY CONTROL**

38 A. Inspecting agency will examine completed firestopping to determine, in general, if it is being  
39 installed in compliance with requirements.

40 B. Do not proceed to enclose firestopping with other construction until reports of examinations are  
41 issued.

42 C. Where deficiencies are found, repair or replace firestopping so that it complies with  
43 requirements.

### 44 **3.06. CLEANING**

45 A. Clean off excess fill materials and sealants adjacent to openings and joints as work progresses  
46 by methods and with cleaning materials approved by manufacturers of firestopping products  
47 and of products in which opening and joints occur.

48 B. Protect firestopping during and after curing period from contact with contaminating substances  
49 or from damage resulting from construction operations or other causes so that they are without  
50 deterioration or damage at time of Substantial Completion. If, despite such protection, damage

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1 or deterioration occurs, cut out and remove damaged or deteriorated firestopping immediately  
2 and install new materials to produce firestopping complying with specified requirements.

3 **END OF SECTION**

**SECTION 07 9000  
JOINT SEALANTS**

**PART 1 - GENERAL**

**1.01. RELATED DOCUMENTS**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

**1.02. SUMMARY**

- A. This Section includes joint sealants for the following locations:
1. Exterior joints in vertical surfaces and non-traffic horizontal surfaces as indicated below:
    - a. Control and expansion joints in cast-in-place concrete.
    - b. Control and expansion joints in unit masonry.
    - c. Joints between different materials listed above.
    - d. Perimeter joints between materials listed above and frames of doors and windows.
    - e. Control and expansion joints in ceiling and overhead surfaces.
    - f. Other joints as indicated.
  2. Exterior joints in horizontal traffic surfaces as indicated below:
    - a. Control, expansion, and isolation joints in cast-in-place concrete slabs.
    - b. Joints between different materials listed above.
    - c. Other joints as indicated.
  3. Interior joints in vertical surfaces and horizontal non-traffic surfaces as indicated below:
    - a. Control and expansion joints on exposed interior surfaces of exterior walls.
    - b. Perimeter joints of exterior openings where indicated.
    - c. Vertical control joints on exposed surfaces of interior unit masonry and concrete walls and partitions.
    - d. Perimeter joints between interior wall surfaces and frames of interior doors, windows.
    - e. Perimeter joints of toilet fixtures.
    - f. Other joints as indicated.
  4. Interior joints in horizontal traffic surfaces as indicated below:
    - a. Control and expansion joints in cast-in-place concrete slabs.
    - b. Other joints as indicated.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
1. Division 7 Section "Exterior Insulation and Finish Systems - Class PB" for sealing system joints.
  2. Division 7 Section "Flashing and Sheet Metal" for sealing joints related to flashing and sheet metal for roofing.
  3. Division 8 "Glass and Glazing" for sealants used in glazing.
  4. Division 9 Section "Gypsum Drywall" for sealing concealed perimeter joints of gypsum board partitions to reduce sound transmission.
  5. Division 9 Section "Tile" for sealing tile joints.

**1.03. SYSTEM PERFORMANCE REQUIREMENTS**

- A. Provide elastomeric joint sealants that have been produced and installed to establish and to maintain watertight and airtight continuous seals without causing staining or deterioration of joint substrates.

**1.04. SUBMITTALS**

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product data from manufacturers for each joint sealant product required.

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- 1 C. Certificates from manufacturers of joint sealants attesting that their products comply with  
2 specification requirements and are suitable for the use indicated.
- 3 D. Product test reports for each type of joint sealants indicated, evidencing compliance with  
4 requirements specified.

### 5 **1.05. QUALITY ASSURANCE**

- 6 A. Installer Qualifications: Engage an experienced Installer who has completed joint sealant  
7 applications similar in material, design, and extent to that indicated for Project that have resulted  
8 in construction with a record of successful in-service performance.
- 9 B. Single Source Responsibility for Joint Sealant Materials: Obtain joint sealant materials from a  
10 single manufacturer for each different product required.

### 11 **1.06. DELIVERY, STORAGE, AND HANDLING**

- 12 A. Deliver materials to Project site in original unopened containers or bundles with labels indicating  
13 manufacturer, product name and designation, color, expiration period for use, pot life, curing  
14 time, and mixing instructions for multi-component materials.
- 15 B. Store and handle materials in compliance with manufacturer's recommendations to prevent their  
16 deterioration or damage due to moisture, high or low temperatures, contaminants, or other  
17 causes.

### 18 **1.07. PROJECT CONDITIONS**

- 19 A. Environmental Conditions: Do not proceed with installation of joint sealants under the following  
20 conditions:  
21 1. When ambient and substrate temperature conditions are outside the limits permitted by  
22 joint sealant manufacturer.  
23 2. When joint substrates are wet.
- 24 B. Joint Width Conditions: Do not proceed with installation of joint sealants where joint widths are  
25 less than allowed by joint sealant manufacturer for application indicated.
- 26 C. Joint Substrate Conditions: Do not proceed with installation of joint sealants until contaminants  
27 capable of interfering with their adhesion are removed from joint substrates.

## 28 **PART 2 - PRODUCTS**

### 29 **2.01. MATERIALS, GENERAL**

- 30 A. Compatibility: Provide joint sealants, joint fillers, and other related materials that are compatible  
31 with one another and with joint substrates under conditions of service and application, as  
32 demonstrated by sealant manufacturer based on testing and field experience.
- 33 B. Colors: Provide color of exposed joint sealants to comply with the following:  
34 1. Provide selections made by Architect from manufacturer's full range of standard colors for  
35 products of type indicated.

### 36 **2.02. ELASTOMERIC JOINT SEALANTS**

- 37 A. Elastomeric Sealant Standard: Provide manufacturer's standard chemically curing elastomeric  
38 sealants that comply with ASTM C 920 and other requirements indicated, including those  
39 requirements referenced for Type, Grade, Class, and Uses.
- 40 B. Multi-part Non-sag Urethane Sealant for use NT: Type M, Grade NS, Class 25, and complying  
41 with the following requirements for uses:  
42 1. Uses: NT, M, G, A and, as applicable to joint substrates indicated, O.
- 43 C. One-part Non-sag Urethane Sealant for use NT: Type S, Grade NS, Class 25, and complying  
44 with the following requirements for uses:  
45 1. Uses: NT, M, A and, as applicable to joint substrates indicated, O.
- 46 D. One-part Non-sag Urethane Sealant for use T: Type S, Grade NS, Class 25, and complying  
47 with the following requirements for uses:  
48 1. Uses: NT, M, A and, as applicable to joint substrates indicated, O.

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- 1 E. One-part Pourable Urethane Sealant for use T: Type S, Grade P, Class 25, and complying with  
2 the following requirements for uses:  
3 1. Uses: NT, M, A and, as applicable to joint substrates indicated, O.
- 4 F. Available Products: Subject to compliance with requirements, elastomeric sealants which may  
5 be incorporated in the Work include, but are not limited to, the following:  
6 1. Multi-Part Nonsag Urethane Sealant for Use NT:  
7 a. "Dynatrol II"; Pecora Corp.  
8 b. "Sonolastic NP 2"; Sonneborn Building Products Div., Rexnord Chemical Products  
9 Inc.  
10 c. "Dymeric"; Tremco, Inc.  
11 2. One-Part Nonsag Urethane Sealant for Use NT:  
12 a. "Vulkem 116"; Tremco, Inc.  
13 b. "Cymonic"; Tremco, Inc.  
14 c. "Dynatrol I"; Pecora Corp.  
15 d. "Sonolastic NP 1"; Sonneborn Building Products Div., Rexnord Chemical Products,  
16 Inc.  
17 3. One-Part Nonsag Urethane Sealant for Use T:  
18 a. "Vulkem 45"; Tremco, Inc.  
19 b. "NR-201 Urexpam"; Pecora Corp.  
20 c. "Sonolastic SL - 1; Sonneborn Building Products Div., Rexnord Chemical Products,  
21 Inc.  
22 4. One-Part Pourable Urethane Sealant for Use T:  
23 a. "Vulkem 245"; Tremco, Inc.  
24 b. "NR-201 Urexpam"; Pecora Corp.  
25 c. "Sonolastic - 1; Sonneborn Building Products Div., Rexnord Chemical Products, Inc.

**2.03. SOLVENT-RELEASE-CURING JOINT SEALANTS:**

- 27 A. Butyl Sealant: Manufacturer's standard one part, nonsag, solvent-release-curing, polymerized  
28 butyl sealant complying with FS TT S-001657 for Type I and formulated with minimum of 75  
29 percent solids to be nonstaining, paintable, and have a tack-free time of 24 hours or less.
- 30 B. Available Products: Subject to compliance with requirements, solvent-release-curing joint  
31 sealants which may be incorporated in the Work include, but are not limited to, the following:  
32 1. Butyl Sealant:  
33 a. "Chem-Calk 300"; Bostik Construction Products Div.  
34 b. "BC-158"; Pecora Corp.  
35 c. "PTI 757"; Protective Treatments Inc.  
36 d. "Tremco Butyl Sealant"; Tremco Inc.

**2.04. LATEX JOINT SEALANTS:**

- 38 A. Acrylic-Emulsion Sealant: Manufacturer's standard, one part, nonsag, mildew-resistant,  
39 acrylic-emulsion sealant complying with ASTM C 834, formulated to be painted and  
40 recommended for exposed applications on interior and on protected exterior locations involving  
41 joint movement of not more than plus or minus 5 percent.
- 42 B. Silicone Emulsion Sealant: Manufacturer's standard one part, nonsag, mildew-resistant,  
43 silicone-emulsion sealant complying with ASTM C 834 and ASTM C 920, formulated to be  
44 paintable and recommended for exposed applications on interior and on protected exterior  
45 locations involving joint movement of not more than plus or minus 12-1/2 percent.
- 46 C. Available Products: Subject to compliance with requirements, latex joint sealants which may be  
47 incorporated in the Work include, but are not limited to, the following:  
48 1. Acrylic-Emulsion Sealant:  
49 a. "AC-20"; Pecora Corp.  
50 b. "Sonolac"; Sonneborn Building Products Div.; Rexnord Chem. Prod., Inc.  
51 c. "Tremco Acrylic Latex 834"; Tremco Inc.

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2. Silicone-Emulsion Sealant:
  - a. "Performance Plus Silicone Sealant"; Dow Corning Corp.

### 2.05. ACOUSTICAL JOINT SEALANTS

- A. Acoustical Sealant: Manufacturer's standard non-sag, paintable, non-staining latex sealant complying with ASTM C 834 and the following requirements:
  1. Product is effective in reducing airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies per ASTM E 90.
  2. Product has flame spread and smoke developed ratings of less than 25 per ASTM E 84.
- B. Acoustical Sealant for Concealed Joints: Manufacturer's standard, nondrying, non-hardening, non-skinning, non-staining, gunnable, synthetic rubber sealant recommended for sealing interior concealed joints to reduce transmission of airborne sound.
  1. Available Products: Subject to compliance with requirements, acoustical joint sealants that may be incorporated in the Work include, but are not limited to, the following:
    - a. Acoustical Sealant:
      - 1) "SHEETROCK Acoustical Sealant," United States Gypsum Co.
      - 2) "AC-20 FTR Acoustical and Insulation Sealant," Pecora Corp.
      - 3) "Tremco Acrylic Latex 834"; Tremco Inc.
    - b. Acoustical Sealant for Concealed Joints:
      - 1) "BA-98," Pecora Corp.
      - 2) "Tremco Acoustical Sealant," Tremco, Inc.
      - 3) "Tremco Acrylic Latex 834"; Tremco Inc.

### 2.06. JOINT SEALANT BACKING

- A. General: Provide sealant backings of material and type that are non-staining; are compatible with joint substrates, sealants, primers and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- B. Plastic Foam Joint Fillers: Pre-formed, compressible, resilient, non-staining, non-waxing, non-extruding strips of flexible plastic foam of material indicated below and of size, shape, and density to control sealant depth and otherwise contribute to producing optimum sealant performance:
  1. Either open-cell polyethylene foam or closed-cell polyethylene foam, subject to approval of sealant manufacturer.
- C. Bond-Breaker Tape: Polyethylene tape or other plastic tape as recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint filler materials or joint surfaces at back of joint where such adhesion would result in sealant failure. Provide self-adhesive tape where applicable.

### 2.07. MISCELLANEOUS MATERIALS

- A. Primer: Material recommended by joint sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming in any way joint substrates and adjacent nonporous surfaces, and formulated to promote optimum adhesion of sealants with joint substrates.
- C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.
- D. Joint fillers for Concrete Paving: Provide joint fillers of thickness and widths indicated.
  1. Bituminous Fiber Joint Filler: Preformed strips of composition noted below, complying with ASTM D1751:
    - a. Asphalt saturated fiberboard.

1 **PART 3 - EXECUTION**

2 **3.01. EXAMINATION**

- 3 A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with  
4 requirements for joint configuration, installation tolerances, and other conditions affecting joint  
5 sealant performance. Do not proceed with installation of joint sealants until unsatisfactory  
6 conditions have been corrected.

7 **3.02. PREPARATION**

- 8 A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to  
9 comply with recommendations of joint sealant manufacturer and the following requirements:
- 10 1. Remove all foreign material from joint substrates that could interfere with adhesion of joint  
11 sealant, including dust, paints (except for permanent, protective coatings tested and  
12 approved for sealant adhesion and compatibility by sealant manufacturer), old joint  
13 sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
  - 14 2. Clean concrete, masonry, unglazed surfaces of ceramic tile, and similar porous joint  
15 substrate surfaces by brushing, grinding, blast cleaning, mechanical abrading, or a  
16 combination of these methods to produce a clean, sound substrate capable of developing  
17 optimum bond with joint sealants. Remove loose particles remaining from above cleaning  
18 operations by vacuuming or blowing out joints with oil-free compressed air.
  - 19 3. Remove laitance and form release agents from concrete.
  - 20 4. Clean metal, glass, porcelain enamel, glazed surfaces of ceramic tile, and other non-  
21 porous surfaces with chemical cleaners or other means that do not stain, harm substrates,  
22 or leave residues capable of interfering with adhesion of joint sealants.
- 23 B. Joint Priming: Prime joint substrates where indicated or where recommended by joint sealant  
24 manufacturer based on preconstruction joint sealant-substrate tests or prior experience. Apply  
25 primer to comply with joint sealant manufacturer's recommendations. Confine primers to areas  
26 of joint sealant bond; do not allow spillage or migration onto adjoining surfaces.
- 27 C. Masking Tape: Use masking tape where required to prevent contact of sealant with adjoining  
28 surfaces that otherwise would be permanently stained or damaged by such contact or by  
29 cleaning methods required to remove sealant smears. Remove tape immediately after tooling  
30 without disturbing joint seal.

31 **3.03. INSTALLATION OF JOINT SEALANTS**

- 32 A. General: Comply with joint sealant manufacturer's printed installation instructions applicable to  
33 products and applications indicated, except where more stringent requirements apply.
- 34 B. Sealant Installation Standard: Comply with recommendations of ASTM C 1193 for use of joint  
35 sealants as applicable to materials, applications, and conditions indicated.
- 36 C. Acoustical Sealant Application Standard: Comply with recommendations of ASTM C 919 for use  
37 of joint sealants in acoustical applications as applicable to materials, applications, and  
38 conditions indicated.
- 39 D. Installation of Sealant Backings: Install sealant backings to comply with the following  
40 requirements:
- 41 1. Install joint fillers of type indicated to provide support of sealants during application and at  
42 position required to produce the cross-sectional shapes and depths of installed sealants  
43 relative to joint widths that allow optimum sealant movement capability.
    - 44 a. Do not leave gaps between ends of joint fillers.
    - 45 b. Do not stretch, twist, puncture, or tear joint fillers.
    - 46 c. Remove absorbent joint fillers that have become wet prior to sealant application and  
47 replace with dry material.
  - 48 2. Install bond breaker tape between sealants where backer rods are not used between  
49 sealants and joint fillers or back of joints.
- 50 E. Installation of Sealants: Install sealants by proven techniques that result in sealants directly  
51 contacting and fully wetting joint substrates, completely filling recesses provided for each joint  
52 configuration, and providing uniform, cross-sectional shapes and depths relative to joint widths

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- 1 that allow optimum sealant movement capability. Install sealants at the same time sealant  
2 backings are installed.
- 3 F. Tooling of Nonsag Sealants: Immediately after sealant application and prior to time skinning or  
4 curing begins, tool sealants to form smooth, uniform beads of configuration indicated, to  
5 eliminate air pockets, and to ensure contact and adhesion of sealant with sides of joint. Remove  
6 excess sealants from surfaces adjacent to joint. Do not use tooling agents that discolor sealants  
7 or adjacent surfaces or are not approved by sealant manufacturer.
- 8 1. Provide concave joint configuration per Figure 6A in ASTM C 962, unless otherwise  
9 indicated.
- 10 2. Use masking tape to protect adjacent surfaces of recessed tooled joints.
- 11 G. Provide recessed joint configuration, per Figure 6C in ASTM C 962, of recess depth and at  
12 locations indicated.

### 13 3.04. CLEANING

- 14 A. Clean off excess sealants or sealant smears adjacent to joints as work progresses by methods  
15 and with cleaning materials approved by manufacturers of joint sealants and of products in  
16 which joints occur.

### 17 3.05. PROTECTION

- 18 A. Protect joint sealants during and after curing period from contact with contaminating substances  
19 or from damage resulting from construction operations or other causes so that they are without  
20 deterioration or damage at time of Substantial Completion. If, despite such protection, damage  
21 or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately  
22 so that and installations with repaired areas are indistinguishable from original work.

23 **END OF SECTION**

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**SECTION 08 1100  
STEEL DOORS AND FRAMES**

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**PART 1 - GENERAL**

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**1.01. RELATED DOCUMENTS:**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

**1.02. DESCRIPTION OF WORK:**

- A. Extent of standard steel doors and frames is indicated and scheduled on drawings.  
B. Finish hardware is specified elsewhere in Division 8.

**1.03. QUALITY ASSURANCE:**

- A. Provide doors and frames complying with Steel Door Institute "Recommended Specifications: Standard Steel Doors and Frames" (SDI-100) and as herein specified.  
B. Templates: Secure templates from finish hardware supplier for specified hardware and mounting locations.  
C. Fire door assemblies shall be installed in accordance with the provisions of CBC Section 716 and NFPA 80 (CBC 716.5)

**1.04. SUBMITTALS:**

- A. Product Data: Submit manufacturer's technical product data substantiating that products comply with requirements.  
B. Shop Drawings: Submit a door schedule keyed to the opening identification symbols shown on the drawings. Include details of each frame type, elevations of door design types, conditions at openings, details of construction, extent of hardware reinforcements and type and location of frame anchors of each opening, and fire rating locations.  
1. Provide schedule of doors and frames using same reference numbers for details and openings as those on contract drawings.  
C. Samples: Full range of color samples for Architect selection; 2 samples, 6" square min., of each color and texture selected for factory-finished doors and frames.

**1.05. DELIVERY, STORAGE AND HANDLING:**

- A. Deliver hollow metal work cartooned or crated to provide protection during transit and job storage. Provide additional sealed plastic wrapping for factory finished doors.  
B. Inspect hollow metal work upon delivery for damage. Minor damages may be repaired provided refurbished items are equal in all respects to new work and acceptable to Architect; otherwise, remove and replace damaged items as directed.  
C. Store doors and frames at building site under cover. Place units on minimum 4" high wood blocking. Avoid use of non-vented plastic or canvas shelters which could create humidity chamber. If cardboard wrapper on door becomes wet, remove carton immediately. Provide 1/4" spaces between stacked doors to promote air circulation.

**PART 2 - PRODUCTS**

**2.01. ACCEPTABLE MANUFACTURERS:**

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering steel doors and frames which may be incorporated in the work include; but are not limited to, the following:  
B. Steel Doors and Frames:  
1. Ceco Corp.  
2. Curries Mfg., Inc.  
3. Steelcraft/Div. American Standard Co.

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1                   4. Republic Builders Products Corp./Subs. Republic Steel.

### 2                   **2.02. MATERIALS:**

- 3                   A. Hot-Rolled Steel Sheets and Strip: Commercial quality carbon steel, pickled and oiled,  
4                   complying with ASTM A 569 and ASTM A 568.
- 5                   B. Cold-Rolled Steel Sheets: Commercial quality carbon steel, complying with ASTM A 366 and  
6                   ASTM A 366.
- 7                   C. Supports and Anchors: Fabricate of not less than 18-gage galvanized sheet steel.
- 8                   D. Inserts, Bolts and Fasteners: Manufacturer's standard units, complying with ASTM A 153, Class  
9                   C or D as applicable.
- 10                  E. Shop Applied Paint:
- 11                  F. Primer: Rust-inhibitive enamel or paint, either air-drying or baking, suitable as a base for  
12                  specified finish paints.

### 13                  **2.03. STANDARD STEEL DOORS:**

- 14                  A. Provide metal doors of types and styles indicated on below or as indicated on schedules.
- 15                  B. Comply with ANSI 250.8 (1998) or SDI-100 requirements as follows:
- 16                      1. Interior Doors: SDI-100, Grade II, heavy-duty, Model 1, minimum 18 gauge faces.
- 17                      2. Exterior Doors: SDI-100, Level III, extra heavy-duty, Model 2, 16 gage faces.
- 18                  C. Sounded Rated Doors: where shown or scheduled, provide doors which have been fabricated  
19                  as sound reducing type, tested in accordance with ASTM E 90, and classified in accordance  
20                  with ASTM E 413.
- 21                      1. Unless otherwise indicated, provide doors with sound ratings of STC 50 or better.

### 22                  **2.04. STANDARD STEEL FRAMES:**

- 23                  A. Provide metal frames for doors, transoms, windows and other openings, of types and styles as  
24                  shown on drawings and schedules. Conceal fastenings, unless otherwise indicated. Fabricate  
25                  frames of cold-rolled furniture steel as noted below:
- 26                      1. Fabricate frames with mitered and welded corners, ground smooth.
- 27                      2. Form exterior frames from 14 gage steel.
- 28                      3. Form interior frames from 16 gage steel.
- 29                  B. Door Silencers: Drill stops to receive 3 silencers on strike jambs of single-swing frames.
- 30                  C. Plaster Guards: Provide 26-gage steel plaster guards or mortar boxes, welded to frame, at back  
31                  of finish hardware cutouts where mortar or other materials might obstruct hardware operation  
32                  and to close off interior of openings.

### 33                  **2.05. FABRICATION, GENERAL:**

- 34                  A. Fabricate steel door and frame units to be rigid, neat in appearance and free from defects, warp  
35                  or buckle. Wherever practicable, fit and assemble units in manufacturer's plant. Clearly identify  
36                  work that cannot be permanently factory-assembled before shipment, to assure proper  
37                  assembly at project site. Comply with ANSI250.8/SDI-100 requirements.
- 38                  B. Internal Construction: Manufacturer's standard honeycomb, polyurethane, polystyrene, unitized  
39                  steel grid, vertical steel stiffeners, or rigid mineral fiber core with internal sound deadener on  
40                  inside of face sheets where appropriate in accordance with SDI standards.
- 41                  C. Clearances: Not more than 1/8 inch at jambs and heads; Not more than 3/4 inch at bottom.
- 42                  D. Fabricate exposed faces of doors from only cold-rolled steel.
- 43                  E. Close top and bottom edges of exterior doors as integral part of door construction or by addition  
44                  of minimum 16-gage inverted steel channels.
- 45                  F. Fabricate frames, concealed stiffeners, reinforcement, edge channels, louvers and moldings  
46                  from either cold-rolled or hot-rolled steel (at fabricator's option).

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- 1 G. Exposed Fasteners: Unless otherwise indicated, provide countersunk flat Phillips heads for  
2 exposed screws and bolts.
- 3 H. Finish Hardware Preparation: Prepare doors and frames to receive mortised and concealed  
4 finish hardware in accordance with final Finish Hardware Schedule and templates provided by  
5 hardware supplier. Comply with applicable requirements of ANSI A115 series specifications for  
6 door and frame preparation for hardware.
- 7 I. Reinforce doors and frames to receive surface-applied hardware. Drilling and tapping for  
8 surface-applied finish hardware may be done at project site.
- 9 J. Locate finish hardware as indicated in Section 06 4100 "Finish Carpentry."
- 10 K. Shop Painting:
- 11 L. Clean, treat, and paint exposed surfaces of steel door and frame units, including galvanized  
12 surfaces.
- 13 M. Clean steel surfaces of mill scale, rust, oil, grease, dirt, and other foreign materials before  
14 application of paint.
- 15 N. Apply shop coat of prime paint of even consistency to provide a uniformly finished surface ready  
16 to receive finish paint.
- 17 O. Glazing Stops: Minimum 20 gage steel or .040-inch-thick aluminum.  
18 1. Provide non-removable stops on outside of exterior doors for glass, louvers, and other  
19 panels in doors.  
20 2. Provide screw applied removable glazing beads on inside of glass, louvers, and other  
21 panels in doors.

**PART 3 - EXECUTION**

**3.01. INSTALLATION:**

- 24 A. General: Install standard steel doors, frames, and accessories in accordance with final shop  
25 drawings, manufacturer's data, and as herein specified.
- 26 B. Placing Frames: Comply with provisions of SDI-105 "Recommended Erection Instructions for  
27 Steel Frames", unless otherwise indicated.  
28 1. Except for frames located at masonry and at drywall installations, place frames prior to  
29 construction at enclosing walls and ceilings. Set frames accurately in position, plumbed,  
30 aligned, and braced securely until permanent anchors are set. After wall construction is  
31 completed, remove temporary braces and spreaders leaving surfaces smooth and  
32 undamaged.  
33 2. In metal stud partitions, install at least 3 wall anchors per jamb at hinge and strike levels.  
34 In closed steel stud partitions, attach wall anchors to studs with tapping screws.
- 35 C. Door Installation:
- 36 D. Fit hollow metal doors accurately in frames, within clearances specified in SDI-100.

**3.02. ADJUST AND CLEAN:**

- 38 A. Prime Coat Touch-up: Immediately after erection, sand smooth any rusted or damaged areas of  
39 prime coat and apply touch-up of compatible air-drying primer.
- 40 B. Final Adjustments: Check and readjust operating finish hardware items, leaving steel doors and  
41 frames undamaged and in complete and proper operating condition.

**END OF SECTION**

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**SECTION 08 2000  
WOOD DOORS**

**PART 1 - GENERAL**

**1.01. RELATED DOCUMENTS**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

**1.02. SUMMARY**

- A. Section Includes:
1. Solid-core doors with wood-veneer MDO and plastic-laminate faces.
  2. Factory finishing flush wood doors.
  3. Factory fitting flush wood doors to frames and factory machining for hardware.

**1.03. SUBMITTALS**

- A. Product Data: For each type of door. Include details of core and edge construction, louvers, and trim for openings. Include factory-finishing specifications.
- B. Shop Drawings: Indicate location, size, and hand of each door; elevation of each kind of door; construction details not covered in Product Data; and the following:
1. Dimensions and locations of blocking.
  2. Dimensions and locations of mortises and holes for hardware.
  3. Dimensions and locations of cutouts.
  4. Undercuts.
  5. Requirements for veneer matching.
  6. Doors to be factory finished and finish requirements.
  7. Fire-protection ratings for fire-rated doors.
- C. Samples for Verification:
1. Plastic laminate, 6 inches (150 mm) square, for each color, texture, and pattern selected.
  2. Frames for light openings, 6 inches (150 mm) long, for each material, type, and finish required.

**1.04. DELIVERY, STORAGE, AND HANDLING**

- A. Comply with requirements of referenced standard and manufacturer's written instructions.
- B. Package doors individually in cardboard cartons and wrap bundles of doors in plastic sheeting.
- C. Mark each door on top and bottom rail with opening number used on Shop Drawings.

**1.05. FIELD CONDITIONS**

- A. Environmental Limitations: Do not deliver or install doors until spaces are enclosed and weathertight, wet work in spaces is complete and dry, and HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during remainder of construction period.
- B. Environmental Limitations: Do not deliver or install doors until spaces are enclosed and weathertight, wet work in spaces is complete and dry, and HVAC system is operating and maintaining temperature between 60 and 90 deg F and relative humidity between 25 and 55 percent during remainder of construction period.

**1.06. WARRANTY**

- A. Special Warranty: Manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
    - a. Warping (bow, cup, or twist) more than 1/4 inch in a 42-by-84-inch section.
    - b. Telegraphing of core construction in face veneers exceeding 0.01 inch in a 3-inch span.

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- 1                   2. Warranty shall also include installation and finishing that may be required due to repair or
- 2                   replacement of defective doors.
- 3                   3. Warranty Period for Solid-Core Interior Doors: Life of installation

### **PART 2 - PRODUCTS**

#### **2.01. MANUFACTURERS**

- A. Source Limitations: Obtain flush wood doors from single manufacturer.

#### **2.02. FLUSH WOOD DOORS, GENERAL**

- 8                   A. Quality Standard: In addition to requirements specified, comply with WDMA I.S.1-A,
- 9                   "Architectural Wood Flush Doors."
- 10                  1. Contract Documents contain selections chosen from options in quality standard and
- 11                  additional requirements beyond those of quality standard. Comply with those selections
- 12                  and requirements in addition to quality standard.
- 13                  B. Low-Emitting Materials: Fabricate doors with adhesives and composite wood products that
- 14                  comply with the testing and product requirements of the California Department of Health
- 15                  Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources
- 16                  Using Small-Scale Environmental Chambers."
- 17                  C. WDMA I.S.1-A Performance Grade: Extra Heavy Duty.
- 18                  D. Fire-Rated Wood Doors: Doors complying with NFPA 80 that are listed and labeled by a
- 19                  qualified testing agency, for fire-protection ratings indicated, based on testing at positive
- 20                  pressure according to NFPA 252 or UL 10C.
- 21                  1. Oversize Fire-Rated Door Assemblies: For units exceeding sizes of tested assemblies,
- 22                  provide certification by a qualified testing agency that doors comply with standard
- 23                  construction requirements for tested and labeled fire-rated door assemblies except for
- 24                  size.
- 25                  2. Cores: Provide core specified or mineral core as needed to provide fire-protection rating
- 26                  indicated.
- 27                  3. Edge Construction: Provide edge construction with intumescent seals concealed by outer
- 28                  stile. Comply with specified requirements for exposed edges.
- 29                  4. Pairs: Provide fire-retardant stiles that are listed and labeled for applications indicated
- 30                  without formed-steel edges and astragals. Provide stiles with concealed intumescent
- 31                  seals. Comply with specified requirements for exposed edges.
- 32                  E. Smoke- and Draft-Control Door Assemblies: Listed and labeled for smoke and draft control,
- 33                  based on testing according to UL 1784.
- 34                  F. Particleboard-Core Doors:
- 35                  1. Particleboard: ANSI A208.1, Grade LD-1 or Grade LD-2, made with binder containing no
- 36                  urea-formaldehyde.
- 37                  2. Blocking: Provide wood blocking in particleboard-core doors as needed to eliminate
- 38                  through-bolting hardware.
- 39                  3. Provide doors with structural-composite-lumber cores instead of particleboard cores for
- 40                  doors indicated to receive exit devices.
- 41                  G. Structural-Composite-Lumber-Core Doors:
- 42                  1. Structural Composite Lumber: WDMA I.S.10.
- 43                  a. Screw Withdrawal, Face: 700 lbf.
- 44                  b. Screw Withdrawal, Edge: 400 lbf.
- 45                  H. Mineral-Core Doors:
- 46                  1. Core: Noncombustible mineral product complying with requirements of referenced quality
- 47                  standard and testing and inspecting agency for fire-protection rating indicated.
- 48                  2. Blocking: Provide composite blocking with improved screw-holding capability approved for
- 49                  use in doors of fire-protection ratings indicated as needed to eliminate through-bolting
- 50                  hardware.

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- 1 3. Edge Construction: At hinge stiles, provide laminated-edge construction with improved
- 2 screw-holding capability and split resistance. Comply with specified requirements for
- 3 exposed edges.
- 4 a. Screw-Holding Capability: 475 lbf per WDMA T.M.-10.

### 5 **2.03. VENEER-FACED DOORS FOR TRANSPARENT FINISH**

- 6 A. Interior Solid-Core Doors :
- 7 1. Grade: Custom (Grade A faces).
- 8 2. Match between Veneer Leaves: Slip match.
- 9 3. Assembly of Veneer Leaves on Door Faces: Balance match.
- 10 4. Room Match: Provide door faces of compatible color and grain within each separate room
- 11 or area of building.
- 12 5. Exposed Vertical and Top Edges: Same species as faces or a compatible species - edge
- 13 Type A.
- 14 6. Core: Particleboard Structural composite lumber.
- 15 7. Construction: Five plies. Stiles and rails are bonded to core, then entire unit is abrasive
- 16 planed before veneering. Faces are bonded to core using a hot press.
- 17 8. WDMA I.S.1-A Performance Grade: Extra Heavy Duty.

### 18 **2.04. DOORS FOR OPAQUE FINISH**

- 19 A. Interior Solid-Core Doors :
- 20 1. Grade: Custom.
- 21 2. Faces: MDO.
- 22 a. Apply MDO to standard-thickness, closed-grain, hardwood face veneers or directly to
- 23 high-density hardboard crossbands.
- 24 b. Hardboard Faces: ANSI A135.4, Class 1 (tempered) or Class 2 (standard).
- 25 c. MDF Faces: ANSI A208.2, Grade 150 or Grade 160.
- 26 3. Exposed Vertical and Top Edges: Any closed-grain hardwood.
- 27 4. Core: Particleboard Structural composite lumber.
- 28 5. Construction: Five plies. Stiles and rails are bonded to core, then entire unit is abrasive
- 29 planed before veneering. Faces are bonded to core using a hot press.
- 30 6. WDMA I.S.1-A Performance Grade: Extra Heavy Duty.

### 31 **2.05. PLASTIC-LAMINATE-FACED DOORS**

- 32 A. Interior Solid-Core Doors <Insert drawing designation>:
- 33 1. Grade: Custom.
- 34 2. Plastic-Laminate Faces: High-pressure decorative laminates complying with NEMA LD 3,
- 35 Grade HGS.
- 36 3. Colors, Patterns, and Finishes: As indicated.
- 37 4. Exposed Vertical and Top Edges: Hardwood edges for staining to match faces.
- 38 5. Core: Particleboard Structural composite lumber.
- 39 6. Construction: Five plies. Stiles and rails are bonded to core, then entire unit is abrasive
- 40 planed before faces and crossbands are applied. Faces are bonded to core using a hot
- 41 press.
- 42 7. WDMA I.S.1-A Performance Grade: Extra Heavy Duty.

### 43 **2.06. LIGHT FRAMES AND LOUVERS**

- 44 A. Wood Beads for Light Openings in Wood Doors: Provide manufacturer's standard wood beads
- 45 unless otherwise indicated.
- 46 1. Wood Species: Same species as door faces.
- 47 2. Profile: Flush rectangular beads.
- 48 3. At wood-core doors with 20-minute fire-protection ratings, provide wood beads and metal
- 49 glazing clips approved for such use.

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- 1 B. Wood-Veneered Beads for Light Openings in Fire-Rated Doors: Manufacturer's standard wood-  
2 veneered noncombustible beads matching veneer species of door faces and approved for use  
3 in doors of fire-protection rating indicated. Include concealed metal glazing clips where required  
4 for opening size and fire-protection rating indicated.
- 5 C. Metal Frames for Light Openings in Fire-Rated Doors: Manufacturer's standard frame formed of  
6 0.048-inch- thick, cold-rolled steel sheet; factory primed for paint finish; and approved for use in  
7 doors of fire-protection rating indicated.
- 8 D. Metal Louvers:
- 9 1. Blade Type: Vision-proof, inverted V.
- 10 2. Metal and Finish: Hot-dip galvanized steel, 0.040 inch thick, with baked-enamel- or  
11 powder-coated finish.
- 12 E. Louvers for Fire-Rated Doors: Metal louvers with fusible link and closing device, listed and  
13 labeled for use in doors with fire-protection rating of 1-1/2 hours and less.
- 14 1. Metal and Finish: Hot-dip galvanized steel, 0.040 inch thick, with baked-enamel- or  
15 powder-coated finish.

### 2.07. FABRICATION

- 17 A. Factory fit doors to suit frame-opening sizes indicated. Comply with clearance requirements of  
18 referenced quality standard for fitting unless otherwise indicated.
- 19 1. Comply with NFPA 80 requirements for fire-rated doors.
- 20 B. Factory machine doors for hardware that is not surface applied. Locate hardware to comply with  
21 DHI-WDHS-3. Comply with final hardware schedules, door frame Shop Drawings, BHMA-  
22 156.115-W, and hardware templates.
- 23 1. Coordinate with hardware mortises in metal frames to verify dimensions and alignment  
24 before factory machining.
- 25 2. Metal Astragals: Factory machine astragals and formed-steel edges for hardware for pairs  
26 of fire-rated doors.
- 27 C. Transom and Side Panels: Fabricate matching panels with same construction, exposed  
28 surfaces, and finish as specified for associated doors. Finish bottom edges of transoms and top  
29 edges of rabbeted doors same as door stiles.
- 30 1. Fabricate door and transom panels with full-width, solid-lumber, rabbeted, meeting rails.  
31 Provide factory-installed spring bolts for concealed attachment into jambs of metal door  
32 frames.
- 33 D. Openings: Factory cut and trim openings through doors.
- 34 1. Light Openings: Trim openings with moldings of material and profile indicated.
- 35 2. Glazing: Factory install glazing in doors indicated to be factory finished. Comply with  
36 applicable requirements in Section 08 8000 "Glazing."
- 37 3. Louvers: Factory install louvers in prepared openings.

### 2.08. FACTORY FINISHING

- 39 A. General: Comply with referenced quality standard for factory finishing. Complete fabrication,  
40 including fitting doors for openings and machining for hardware that is not surface applied,  
41 before finishing.
- 42 1. Finish faces, all four edges, edges of cutouts, and mortises. Stains and fillers may be  
43 omitted on top and bottom edges, edges of cutouts, and mortises.
- 44 B. Factory finish doors that are indicated to receive transparent finish.
- 45 C. Transparent Finish:
- 46 1. Grade: Custom.
- 47 2. Finish: WDMA TR-4 conversion varnish or WDMA TR-6 catalyzed polyurethane.
- 48 3. Staining: Match Architect's sample .
- 49 4. Sheen: Satin.

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**PART 3 - EXECUTION**

**3.01. EXAMINATION**

- A. Examine doors and installed door frames, with Installer present, before hanging doors.
  - 1. Verify that installed frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with level heads and plumb jambs.
  - 2. Reject doors with defects.
- B. Proceed with installation only after unsatisfactory conditions have been corrected

**3.02. INSTALLATION**

- A. Hardware: For installation, see Section 08 7100 "Finish Hardware."
- B. Installation Instructions: Install doors to comply with manufacturer's written instructions and referenced quality standard, and as indicated.
  - 1. Install fire-rated doors according to NFPA 80.
  - 2. Install smoke- and draft-control doors according to NFPA 105.
- C. Factory-Fitted Doors: Align in frames for uniform clearance at each edge.
- D. Factory-Finished Doors: Restore finish before installation if fitting or machining is required at Project site.

**3.03. ADJUSTING**

- A. Operation: Rehang or replace doors that do not swing or operate freely.
- B. Finished Doors: Replace doors that are damaged or that do not comply with requirements. Doors may be repaired or refinished if Work complies with requirements and shows no evidence of repair or refinishing.

**END OF SECTION**

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**SECTION 08 3300**  
**ROLLING COUNTER FIRE SHUTTERS**

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**PART 1 - GENERAL**

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**1.01. SUMMARY**

- 6 A. Section Includes: Manual opening, automatic closing rolling counter fire doors.
- 7 B. Related Sections:
- 8 1. 05 50 00 Metal Fabrications. Door opening jamb and head members.
- 9 2. 06 10 00 Rough Carpentry. Door opening jamb and head members.
- 10 3. 08 31 00 Access Doors and Panels. Access doors.
- 11 4. 08 70 00 Hardware. Padlocks. Masterkeyed cylinder.
- 12 5. 09 91 00 Painting. Field painting.
- 13 6. Division 26. Electrical wiring and conduit, fuses, disconnect switches, connection of
- 14 operator to power supply, installation of control station and wiring, and connection to alarm
- 15 system.
- 16 C. Products That May Be Supplied, But Are Not Installed Under This Section:
- 17 1. Control station
- 18 2. Electrical disconnect
- 19 3. Annunciators
- 20 4. Primary and control wiring
- 21 5. Conduit and fittings

22  
**1.02. SYSTEM DESCRIPTION**

- 23 A. Performance Requirements:
- 24 1. Provide doors with Underwriters' Laboratories, Inc. label for the fire rating classification,
- 25 3/4 hr

26  
**1.03. SUBMITTALS**

- 27 A. Reference Section 01 33 00 Submittal Procedures; submit the following items:
- 28 1. Product Data
- 29 2. Shop Drawings: Include special conditions not detailed in Product Data. Show interface
- 30 with adjacent work.
- 31 3. Quality Assurance/Control Submittals:
- 32 a. Provide proof of manufacturer ISO 9001:2015 registration
- 33 b. Provide proof of manufacturer and installer qualifications - see 1.4 below
- 34 c. Provide manufacturer's installation instructions
- 35 4. Closeout Submittals:
- 36 a. Operation and Maintenance Manual
- 37 b. Certificate stating that installed materials comply with this specification

38  
**1.04. QUALITY ASSURANCE**

- 39 A. Qualifications:
- 40 1. Manufacturer Qualifications: ISO 9001:2015 registered and a minimum of five years
- 41 experience in producing counter fire doors and smoke control units of the type specified
- 42 2. Installer Qualifications: Manufacturer's approval

43  
**1.05. DELIVERY STORAGE AND HANDLING**

- 44 A. Reference Section 01 66 00 - Product Storage and Handling Requirements
- 45 B. Follow manufacturer's instructions

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**1.06. WARRANTY**

- A. Standard Warranty: Two years from date of shipment against defects in material and workmanship
- B. Maintenance: Submit for owner’s consideration and acceptance of a maintenance service agreement for installed products

**PART 2 - PRODUCTS**

**2.01. MANUFACTURER**

- A. Manufacturer:
  - 1. Cookson: 1901 South Litchfield Road, Goodyear, AZ 85338. Telephone: (800) 233-8366.
    - a. Model: ERC10
  - 2. Cornell
  - 3. Clopay Building Products
  - 4. Amarr
  - 5. Substitutions: Not permitted.

**2.02. MATERIALS**

- A. Curtain:
  - 1. Slat Configuration:
    - a. Galvanized Steel with Finish as Described Below: No. 1F, interlocked flat-faced slats, 1-1/2 inches (38 mm) high by 1/2 inch (13 mm) deep, minimum 22 gauge ASTM A 653, Commercial Quality, galvanized steel with plain steel bottom bar and vinyl astragal
    - 2. Finish:
      - a. GalvaNex™ Coating System (Stock Colors):
        - 1) GalvaNex™ - ASTM A 653 galvanized base coating treated with dual process rinsing agents in preparation for chemical bonding baked-on base coat and [gray] [tan] [white] [brown] baked-on polyester enamel finish coat
        - 2) GalvaNex™ Ultra- Ultra Powder Coat to be applied as a protective top coat over GalvaNex finish. Top coat is a polyester based structured wear resistant clear powder coat of 2.5-3.5 mils cured film thickness. ASTM D-3363 pencil hardness: 2H or better. Tested per ASTM B117. Base coating of GalvaNex to be ASTM A 653 galvanized base coating treated with dual process rising agents in preparation for chemical bonding baked-on base coat and [gray] [tan] [white] [brown] baked-on polyester enamel finish coat.
      - b. SpectraShield® Coating System (Color Selected by Architect):
        - 1) SpectraShield color as selected by Architect from manufacturer's color range, more than 180 colors
        - 2) SpectraShield Ultra – Ultra Powder Coat to be applied as a protective top coat over SpectraShield finish. Top coat is a polyester based structured wear resistant clear powder coat of 2.5-3.5 mils cured film thickness. ASTM D-3363 pencil hardness: 2H or better. Tested per ASTM B117. Base coating of SpectraShield color as selected by Architect from manufacturer’s color range, more than 180 colors.
- B. Guides:
  - 1. Configuration & Finish:
    - a. Steel: minimum 12 gauge formed shapes
      - 1) Powder Coat (Stock Colors): Zirconium treatment followed by a [gray] [tan] [white] baked-on polyester powder coat; minimum 2.5 mils (0.065 mm) cured film thickness
      - 2) Powder Coat (Color Selected by Architect): Zirconium treatment followed by baked-on polyester powder coat, [color as selected by Architect from manufacturer’s standard color range] [custom color as selected by Architect]; minimum 2.5 mils (0.065 mm) cured film thickness; ASTM D-3363 pencil hardness: H or better

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- 1 C. Counterbalance Shaft Assembly:
- 2 1. Barrel: Steel pipe capable of supporting curtain load with maximum deflection of 0.03
- 3 inches per foot (2.5 mm per meter) of width
- 4 2. Spring Balance: Oil-tempered, heat-treated steel helical torsion spring assembly designed
- 5 for proper balance of door to ensure that maximum effort to operate will not exceed 25 lbs
- 6 (110 N). Provide wheel for applying and adjusting spring torque.
- 7 D. Brackets:
- 8 1. Fabricate from reinforced steel plate with permanently lubricated ball or roller bearings at
- 9 rotating support points to support counterbalance shaft assembly and form end closures
- 10 2. Finish:
- 11 a. Powder Coat (Stock Colors): Zirconium treatment followed by a [gray] [tan] [white]
- 12 baked-on polyester powder coat; minimum 2.5 mils (0.065 mm) cured film thickness
- 13 b. Powder Coat (Color Selected by Architect): Zirconium treatment followed by baked-on
- 14 polyester powder coat, [color as selected by Architect from manufacturer's standard
- 15 color range] [custom color as selected by Architect]; minimum 2.5 mils (0.065 mm)
- 16 cured film thickness; ASTM D-3363 pencil hardness: H or better
- 17 E. Hood and Mechanism Covers:
- 18 1. [24 gauge galvanized steel] [24 gauge stainless steel] with reinforced top and bottom
- 19 edges. Provide minimum 1/4 inch (6.35 mm) steel intermediate support brackets as
- 20 required to prevent excessive sag.
- 21 2. Finish:
- 22 a. GalvaNex™ Coating System (Stock Colors):
- 23 1) ASTM A 653 galvanized base coating treated with dual process rinsing agents in
- 24 preparation for chemical bonding baked-on base coat and [gray] [tan] baked-on
- 25 polyester finish coat
- 26 b. SpectraShield® Coating System (Color Selected by Architect):
- 27 1) ASTM A 653 galvanized base coating treated with dual process rinsing agents in
- 28 preparation for chemical bonding, gray baked-on base coat and gray baked-on
- 29 polyester finish coat
- 30 2) Zirconium treatment followed by baked-on polyester powder coat, with [color as
- 31 selected by Architect from manufacturer's standard color range] [custom color as
- 32 selected by Architect]; minimum 2.5 mils (0.065 mm) cured film thickness; ASTM
- 33 D-3363 pencil hardness: H or better

### 2.03. OPERATION

- 34 A. Manual Operation:
- 35 1. AlarmGard Advanced Manual Crank Fire Door Operators: Electrically activated, manually
- 36 operated, 115 volt AC system with planetary gear reduction, a transformer with 24v
- 37 secondary output and an internal failsafe release mechanism
- 38 a. Door assembly to be manually operated by crank
- 39 b. Provide an internal electrical failsafe release device that requires no additional wiring,
- 40 external cables or mounting locations
- 41 c. Electrically activate automatic closure by [notification from central alarm system]
- 42 [notification from local detectors] or [power outage] [power outage exceeding 6 hours
- 43 with R-BBU battery backup system]
- 44 d. Provide an internal solenoid brake mechanism to hold the door at any position during
- 45 normal door operation
- 46 e. Delay automatic closure after notification for no more than ten seconds
- 47 f. Control automatic closure speed with an internal, totally enclosed, variable rate
- 48 centrifugal governor without the use of electrical pulsation, constant rate viscosity,
- 49 oscillation type or other exposed governing devices
- 50 g. Maintain automatic closure speed at an average of 12" (304mm) per second
- 51 h. Electrically reset internal failsafe release device and door operating system upon
- 52 restoration of electrical power and upon clearing of the alarm signal without requiring
- 53 human supervision
- 54

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- 1 i. Provide minimum #50 roller chain from operator output shaft to the door drive shaft
- 2 j. Install system only with manufacturer supplied or specified fasteners
- 3 k. Ensure that manual resetting of spring tension, release devices, linkages or
- 4 mechanical dropouts will not be required
- 5 l. Notify electrical contractor to supply and install the appropriate disconnect switch, all
- 6 conduit and wiring per the door system wiring instructions
- 7 m. Drop test and reset door system twice by all means of activation and comply fully with
- 8 NFPA 80 Section 5
- 9 2. FireGard™ Series Manual [Chain] [Crank] Operation: Thermally activated, manually
- 10 operated system with planetary gear reduction and internal release mechanism
- 11 a. Provide an internal brake mechanism to hold the door at any position during normal
- 12 door operation
- 13 b. Thermally activate automatic closure by melting of a fusible link
- 14 c. Control automatic closure speed with an internal, totally enclosed, variable rate
- 15 centrifugal governor without the use of electrical pulsation, non-variable rate viscosity,
- 16 oscillation type or other governing devices
- 17 d. Maintain automatic closure speed at an average of 12" (304mm) per second
- 18 e. Reset door system by reconnecting fusible links or by re-engaging a failsafe release
- 19 device from floor level
- 20 f. Provide minimum #50 roller chain from operator output shaft to the door drive shaft
- 21 g. Install system only with manufacturer supplied or specified fasteners
- 22 h. Ensure that manual resetting of spring tension or mechanical components will not be
- 23 required
- 24 i. Drop test and reset door system twice by all means of activation and comply fully with
- 25 NFPA 80 Section 5

### 2.04. ACCESSORIES

- 26 A. Photoelectric Smoke/Heat Detector (when not connected to central alarm system): UL listed
- 27 B. Fire Emergency Annunciator: [ADA compliant horn/strobe] [Voice Warning Module] fire
- 28 emergency annunciator to give advanced warning that fire shutter is about to close, activating
- 29 warning signal upon alarm
- 30 C. Operator and Full Bracket Mechanism Cover: [24 gauge galvanized steel] [24 gauge stainless
- 31 steel] sheet metal cover to enclose exposed moving operating components at coil area of unit.
- 32 Finish to match door hood.
- 33

## PART 3 - EXECUTION

### 3.01. EXAMINATION

- 36 A. Examine substrates upon which work will be installed and verify conditions are in accordance
- 37 with approved shop drawings
- 38 B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates
- 39 C. Commencement of work by installer is acceptance of substrate

### 3.02. INSTALLATION

- 41 A. Install door and operating equipment with necessary hardware, anchors, inserts, hangers and
- 42 supports
- 43 B. Comply with NFPA 80 and follow manufacturer's installation instructions

### 3.03. ADJUSTING

- 45 A. Following completion of installation, including related work by others, lubricate, test, and adjust
- 46 doors for ease of operation, free from warp, twist, or distortion

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**3.04. FIELD QUALITY CONTROL**

- A. Site Test: Test doors for normal operation and automatic closing. Coordinate with authorities having jurisdiction to witness test and sign Drop Test Form

**3.05. CLEANING**

- A. Clean surfaces soiled by work as recommended by manufacturer
- B. Remove surplus materials and debris from the site

**3.06. DEMONSTRATION**

- A. Demonstrate proper operation to Owner's Representative
- B. Instruct Owner's Representative in maintenance procedures

**END OF SECTION**

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**SECTION 08 7100  
HARDWARE**

**PART 1 - GENERAL**

**1.01. RELATED DOCUMENTS:**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to the work of this section.

**1.02. DESCRIPTION OF WORK:**

- A. Definition: "Builders Hardware" includes items known commercially as builders hardware which are required for swing doors, except special types of unique and non-matching hardware specified in the same section as the door and door frame.
- B. Extent of finish hardware required is indicated on drawings and in schedules.
- C. Types of finish hardware required include the following:
1. Hinges
  2. Lock cylinders and keys
  3. Lock and latch sets
  4. Bolts
  5. Push/pull units
  6. Closers
  7. Miscellaneous door control devices
  8. Protection plates
  9. Sound stripping for interior doors
- D. Silencers included integral with hollow metal frames are specified with door frames elsewhere in Division 8.

**1.03. QUALITY ASSURANCE:**

- A. Manufacturer: Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) from only one manufacturer, although several may be indicated as offering products complying with requirements.
- B. Supplier: A recognized architectural finish hardware supplier, with warehousing facilities, who has been furnishing hardware in the project's vicinity for a period of not less than 2 years, and who is, or who employs an experienced architectural hardware consultant who is available, at reasonable times during the course of the work, for consultation about project's hardware requirements, to Owner, Architect and Contractor.

**1.04. SUBMITTALS:**

- A. Product Data: Submit manufacturers technical product data for each item of hardware in accordance with Division-1 section "Submittals". Include whatever information may be necessary to show compliance with requirements, and include instructions for installation and for maintenance of operating parts and finish.
- B. Hardware Schedule: Submit hardware schedule in manner similar to schedule at end of section. Coordinate hardware with doors, frames and related work to ensure proper size, thickness, hand, function and finish of hardware. Include the following information:
1. Type, style, function, size and finish of each hardware item.
    - a. Name and manufacturer of each item.
    - b. Fastenings and other pertinent information.
    - c. Location of hardware set cross-referenced to indications on Drawings both on floor plans and in door and frame schedule.
    - d. Explanation of all abbreviations, symbols, codes, etc. contained in schedule.

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- 1 e. Mounting locations for hardware.
- 2 f. Door and frame sizes and materials.
- 3 g. Keying information.
- 4 C. Submittal Sequence: Submit schedule at earliest possible date particularly where acceptance of
- 5 hardware schedule must precede fabrication of other work (e.g., hollow metal frames) which is
- 6 critical in the project construction schedule. Include with schedule the product data, samples,
- 7 shop drawings of other work affected by finish hardware, and other information essential to the
- 8 coordinated review of hardware schedule.
- 9 D. Samples: Prior to submittal of the final hardware schedule and prior to final ordering of finish
- 10 hardware, submit one sample of each type of exposed hardware unit, finished as required, and
- 11 tagged with full description for coordination with schedule.
- 12 1. Samples will be returned to the supplier. Units which are acceptable and remain
- 13 undamaged through submittal, review and field comparison procedures may, after final
- 14 check of operation, be used in the work, within limitations of keying coordination
- 15 requirements.
- 16 E. Templates: Furnish hardware templates to each fabricator of doors, frames and other work to
- 17 be factory-prepared for the installation of hardware. Upon request, check shop drawings of such
- 18 other work, to confirm that adequate provisions are made for proper location and installation of
- 19 hardware.

### 20 **1.05. PRODUCT HANDLING:**

- 21 A. Tag each item or package separately, with identification related to final hardware schedule, and
- 22 include basic installation instructions with each item or package.
- 23 B. Packaging of hardware is the responsibility of the supplier. As material is received by hardware
- 24 supplier from various manufacturers, sort and repackage in containers clearly marked with
- 25 appropriate hardware set number to match set numbers of approved hardware schedule. Two
- 26 or more identical sets may be packed in same container.
- 27 C. Inventory hardware jointly with representatives of the hardware supplier and the hardware
- 28 installer until each is satisfied that count is correct.
- 29 D. Deliver individually packaged hardware items at the proper times to the proper locations (shop
- 30 or project site) for installation.
- 31 E. Provide secure lock-up for hardware delivered to the project, but not yet installed. Control
- 32 handling and installation of hardware items which are not immediately replaceable, so that
- 33 completion of the work will not be delayed by hardware losses, both before and after
- 34 installation.

## 35 **PART 2 - PRODUCTS**

### 36 **2.01. SCHEDULED HARDWARE:**

- 37 A. Requirements for design, grade, function, finish, size and other distinctive qualities of each type
- 38 of finish hardware is indicated in the Finish Hardware Schedule at the end of this section.
- 39 Products are identified by using hardware designation numbers of the following.
- 40 1. Manufacturer's product designations: One manufacturers is listed for each hardware type
- 41 required for purposes of establishing minimum requirements. Provide either the product
- 42 designated, or comparable products of the other manufacturers which comply with
- 43 requirements including those specified elsewhere in this section.

### 44 **2.02. MATERIALS AND FABRICATION:**

- 45 A. General:
- 46 B. Hand of door: Drawings show direction of swing or hand of each door leaf. Furnish each item of
- 47 hardware for proper installation and operation of door movement as shown.
- 48 C. Manufacturer's Name Plate: Do not use manufacturer's products which have manufacturer's
- 49 name or trade name displayed in a visible location (omit removable nameplates), except in
- 50 conjunction with required UL labels and as otherwise acceptable to Architect.
- 51 1. Manufacturer's identification will be permitted on rim of lock cylinders only.

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- 1 D. Base Metals: Produce hardware units of basic metal and forming method indicated, using  
2 manufacturer's standard metal alloy, composition, temper and hardness, but in no case of  
3 lesser (commercially recognized) quality than specified for the applicable hardware units by  
4 applicable ANSI A156 series standard for each type hardware item and with ANSI A156.18 for  
5 finish designations indicated. Do not furnish "optional" materials or forming methods for those  
6 indicated, except as otherwise specified.
- 7 E. Fasteners: Provide hardware manufactured to conform to published templates, generally  
8 prepared for machine screw installation. Do not provide hardware which has been prepared for  
9 self-tapping sheet metal screws, except as specifically indicated.
- 10 F. Furnish screws for installation, with each hardware item. Provide Phillips flat-head screws  
11 except as otherwise indicated. Finish exposed (exposed under any condition) screws to match  
12 hardware finish or, if exposed in surfaces of other work, to match finish of such other work as  
13 closely as possible, including "prepared for paint" in surfaces to receive painted finish.
- 14 G. Provide concealed fasteners for hardware units which are exposed when door is closed, except  
15 to extent no standard units of the type specified are available with concealed fasteners. Do not  
16 use thru-bolts for installation where bolt head or nut on the opposite face is exposed in other  
17 work, except where it is not feasible to adequately reinforce the work. In such cases, provide  
18 sleeves for each thru-bolt or use sex screw fasteners.
- 19 H. Tools and Maintenance Instructions for Maintenance: Furnish a complete set of specialized  
20 tools and maintenance instructions as needed for Owner's continued adjustment, maintenance,  
21 and removal and replacement of finish hardware.

### 22 2.03. HINGES, BUTTS AND PIVOTS:

- 23 A. Templates: Except for hinges and pivots to be installed entirely (both leaves) into wood doors  
24 and frames, provide only template-produced units.
- 25 B. Screws: Furnish Phillips flat-head or machine screws for installation of units, except furnish  
26 Phillips flat-head or wood screws for installation of units into wood. Finish screw heads to match  
27 surface of hinges or pivots.
- 28 C. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
- 29 1. Steel Hinges: Steel pins.
- 30 2. Non-ferrous Hinges: Stainless steel pins.
- 31 3. All Doors: Non-rising, non-removable pins.
- 32 4. Tips: Flat button and matching plug, finished to match leaves.
- 33 5. Number of hinges: Provide number of hinges indicated.
- 34 6. Size: As required for proper operation - 4 1/2" x 4 1/2" minimum.
- 35 7. Finish: Hinge finish shall be US 26D - Satin Chrome.

### 36 2.04. LOCK CYLINDERS AND KEYING:

- 37 A. General: Supplier will meet with Owner to finalize keying requirements and obtain final  
38 instructions in writing.
- 39 B. Review the keying system with the Owner and provide the type required (master, grand-master  
40 or great-grandmaster), either new or integrated with Owner's existing system.
- 41 C. Equip locks with manufacturer's standard 6-pin tumbler cylinders ("E" type keyway). Furnish a  
42 construction master key system with 10 keys for locks and cylinder use only during construction.
- 43 D. Metals: Construct lock cylinder parts from brass/bronze, stainless steel or nickel silver.
- 44 E. Comply with Owner's instructions for master keying and, except as otherwise indicated, provide  
45 individual change key for each lock which is not designated to be keyed alike with a group of  
46 related locks.
- 47 1. Deliver keys to Owner's representative. Provide factory keys to locks with #1 cut. Factory  
48 stamp permanent keys "DO NOT DUPLICATE".
- 49 F. Key Material: Provide keys of nickel silver only.
- 50 G. Key Quantity: Furnish 3 change keys for each lock; 5 master keys for each master system; and  
51 5 grandmaster keys for each grandmaster system.

1           **2.05. LOCKS, LATCHES AND BOLTS:**

- 2           A. Strikes: Provide manufacturer's standard wrought box strike for each latch or lock bolt, with  
3           curved lip extended to protect frame, finished to match hardware set.
- 4           B. Lock Throw: Provide 5/8" minimum throw of latch and 1" minimum throw of deadbolt.
- 5           C. Flush Bolt Heads: Minimum of 1/2" diameter rods of bras, bronze or stainless steel, with  
6           minimum 12" log rod for dors up to 7'-0" in height.
- 7           D. Lockset: Schlage Lock Co., "D" series units as specified. 2 3/4" backset except where  
8           scheduled otherwise. Lever design shall be "Rhodes" US 26D - Satin Chrome finish.

9           **2.06. CLOSERS AND DOOR CONTROL DEVICES:**

- 10          A. Size of Units: Except as otherwise specifically indicated, comply with the manufacturer's  
11          recommendations for size of door control unit, depending upon size of door, exposure to  
12          weather and anticipated frequency of use.
- 13                1. Where parallel arms are indicated for closers, provide closer unit one size larger than  
14                recommended for use with standard arms.
- 15          B. Access-Free Manual Closers: Where manual closers are indicated for doors required to be  
16          accessible to the physically handicapped, provide adjustable units complying with ANSI A 117.1  
17          provisions for door opening force and delayed action closing.
- 18          C. Flush Floor Plates: Provide finished metal flush floor plates for floor closers. Finish floor plate to  
19          match hardware sets.

20          **2.07. DOOR TRIM UNITS:**

- 21          A. Fasteners: Provide manufacturer's standard exposed fasteners for door trim units (kick plates,  
22          and similar units); either machine screws or self-tapping screw.
- 23          B. Fabricate edge trim of stainless steel, not more than 1/2" nor less than 1/16" smaller in length  
24          than door dimension.
- 25          C. Fabricate protection plates (kick or mop) not more than 1 1/2" less than door width on stop side  
26          and not more than 1/2" less than door width on pull side, x height indicated.
- 27                1. Metal Plates: Stainless steel, .050" (U.S. 18 ga.).

28          **2.08. WEATHERSTRIPPING:**

- 29          A. General: Except as otherwise indicated, provide continuous weatherstripping at each edge of  
30          every exterior door leaf. Provide type, size, and profiles shown or scheduled. Provide non-  
31          corrosive fasteners as recommended by manufacturer for application indicated.
- 32          B. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strip is easily  
33          replaceable and readily available from stocks maintained by manufacturer.
- 34          C. Provide bumper-type resilient insert and metal retainer strips surface-applied as noted on  
35          schedule.

36          **2.09. HARDWARE FINISHES:**

- 37          A. Provide matching finishes for hardware units at each door or opening, to the greatest extent  
38          possible, and except as otherwise indicated. Reduce differences in color and textures as much  
39          as commercially possible where the base metal or metal forming process is different for  
40          individual units of hardware exposed at the same door or opening. In general, match items to  
41          the manufacturer's standard finish for the latch and lock for color and texture.
- 42          B. Provide finishes which match those as noted by the Architect.
- 43          C. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness  
44          and other qualities complying with manufacturer's standards, but in no case less than specified  
45          for the applicable units of hardware by referenced standards.
- 46          D. The designations used in schedules and elsewhere to indicate hardware finishes are the  
47          industry-recognized standard commercial finishes, except as otherwise noted.

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**PART 3 - EXECUTION**

**3.01. INSTALLATION:**

- A. Mount hardware units at "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute, except as specifically indicated or required to comply with governing regulations, and except as may be otherwise directed by Architect.
- B. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, coordinate removal, storage and reinstallation or application of surface protections with finishing work specified in the Division-9 sections. Do not install surface-mounted items until finishes have been completed on the substrate.
- C. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- D. Drill and countersink units which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

**3.02. ADJUST AND CLEAN:**

- A. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.
- B. Clean adjacent surfaces soiled by hardware installation.
- C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy of a space or area, return to the work during the week prior to acceptance or occupancy, and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of HVAC.
- D. Instruct Owner's Personnel in proper adjustment and maintenance of hardware and hardware finishes, during the final adjustment of hardware.
- E. The following schedule includes hardware to be furnished and installed under this Section. Verify all field conditions and furnish additional and/or accessories as required to provide a complete installation - with all openings operating properly.
  - 1. Numbers on attached schedule are from the following manufacturers. Do not substitute without approval of Architect.
    - a. Hinges, Butts: ..... Hager
    - b. Locks and Latchsets: ..... Schlage
    - c. Closers: ..... LCN
    - d. Gasketing/Seals: ..... Pemko
    - e. Door Stops: ..... IVES
    - f. Door Protection: ..... IVES

**3.03. HARDWARE SCHEDULE**

- A. See drawings for hardware schedule.

**END OF SECTION**

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**SECTION 09 2900  
GYPSUM BOARD ASSEMBLIES**

**PART 1 - GENERAL**

**1.01. SECTION INCLUDES**

- A. Metal stud wall framing.
- B. Acoustic insulation.
- C. Cementitious backer board.
- D. Gypsum wallboard.
- E. Joint treatment and accessories.
- F. Textured finish system.

**1.02. REFERENCES**

- A. ASTM C 36/C 36M -Standard Specification for Gypsum Wallboard; 1999.
- B. ASTM C 79/C 79M -Standard Specification for Treated Core and Nontreated Core Gypsum Sheathing Board; 1997.
- C. ASTM C 475 -Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board; 1994.
- D. ASTM C 630/C 630M -Standard Specification for Water-Resistant Gypsum Backing Board; 1996a.
- E. ASTM C 754 -Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products; 1999a.
- F. ASTM C 840 -Standard Specification for Application and Finishing of Gypsum Board; 1999.
- G. ASTM C 919 -Standard Practice for Use of Sealants in Acoustical Applications; 1998.
- H. ASTM C 1002 -Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases; 1998.
- I. GA-216 -Application and Finishing of Gypsum Board; Gypsum Association; 2000.
- J. GA-600 -Fire Resistance Design Manual; Gypsum Association; 2000.

**1.03. SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on metal framing, gypsum board, accessories, joint finishing system , and acoustical insulation and sealants.
- C. Samples: Prepare a wall surface to each of the the finishes specified and notify the Architect for his review. The walls selected shall be walls specified to receive the finish. The Architect reserves the right to make minor adjustments in the finish without incurring additional costs.
- D. These walls, when accepted by the Architect, will become the standard for all walls specified to receive a similar finish.

**1.04. QUALITY ASSURANCE**

- A. Perform in accordance with ASTM C 840. Comply with requirements of GA-600 for fire-rated assemblies.
- B. Applicator Qualifications: Company specializing in performing the work of this section with minimum three years of experience.

**1.05. REGULATORY REQUIREMENTS**

- A. Conform to applicable code for fire rated assemblies as indicated on drawings.

1        **PART 2 - PRODUCTS**

2            **2.01. MANUFACTURERS**

- 3            A. Gypsum Board:
- 4                1. G-P Gypsum Corp.
- 5                2. National Gypsum Co.
- 6                3. United States Gypsum Co.
- 7                4. Pabco Gypsum Co.
- 8                5. Substitutions: See Section 01 6000 - Product Requirements.

9            **2.02. METAL FRAMING MATERIALS**

- 10           A. Non-Loadbearing Framing System Components: ASTM C 645; galvanized sheet steel, of size
- 11           and properties indicated.
- 12                1. Studs: C shaped with knurled faces.
- 13                2. Runners: U shaped, sized to match studs.
- 14                3. Furring: Hat-shaped sections, minimum depth of 3/4 inch.

15           **2.03. GYPSUM BOARD MATERIALS**

- 16           A. Standard Gypsum Wallboard: ASTM C 36/C 36M; sizes to minimize joints in place; ends square
- 17           cut.
- 18                1. Thickness: 5/8 inch.
- 19                2. Edges: Tapered.
- 20           B. Fire Rated Gypsum Wallboard: ASTM C 36/C 36M; Type X, UL or WH rated; sizes to minimize
- 21           joints in place; ends square cut.
- 22                1. Thickness: 5/8 inch.
- 23                2. Edges: Tapered.
- 24           C. Moisture-Resistant Gypsum Backing Board: ASTM C 630/C 630M; ends square cut.
- 25                1. Thickness: 5/8 inch.
- 26                2. Edges: Tapered.
- 27           D. Gypsum Sheathing Board: ASTM C 79/C 79M; moisture resistant and fire resistant type; sizes to
- 28           minimize joints in place; water repellent paper faces; ends square cut.
- 29                1. 1. Thickness: 5/8 inch.
- 30           E. Cementitious Backer Board: High density, glass fiber reinforced, 5/8 inch thick.
- 31                1. 1. Tape: 2 inch wide, coated glass fiber tape for joints and comers.
- 32           F. Abuse Resistant Panel: Tough rock Abuse-Resistant Gypsum Board, ASTM C-36, Type-X, as
- 33           manufactured by G-P Gypsum Corporation (800) 225-6119.
- 34                1. Thickness: 5/8 inch.
- 35                2. Edges: Tapered.
- 36           G. Sound Reducing Gypsum Wallboard: ASTM C 36/C 36M; Type X, UL or WH rated; sizes to
- 37           minimize joints in place; ends square cut.
- 38                1. Thickness: 5/8 inch.
- 39                2. Edges: Tapered.

40           **2.04. ACCESSORIES**

- 41           A. Acoustic Insulation: Therma fiber 3-inch Creased SAFB as manufactured by USG Interiors, (510)
- 42           792-4400.
- 43           B. Acoustic Sealant: Non-hardening, non-skinning, for use in conjunction with gypsum board.
- 44           C. Corner Beads: Galvanized steel.
- 45           D. Edge Trim: Bead type(s) as detailed.

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- 1 E. Joint Materials: ASTM C 475 and as recommended by gypsum board manufacturer for project  
2 conditions.
- 3 F. Textured Finish Materials: Latex-based compound; plain.
- 4 G. Screws: ASTM C 1002; self-drilling type; cadmium-plated for exterior locations.
- 5 H. Anchorage to Substrate: Tie wire, nails, screws, and other metal supports, of type and size to suit  
6 application; to rigidly secure materials in place.

### 7 **PART 3 - EXECUTION**

#### 8 **3.01. EXAMINATION:**

- 9 A. Examine substrates to which drywall construction attaches or abuts, preset hollow metal frames,  
10 cast-in-anchors, and structural framing, with Installer present, for compliance with requirements  
11 for installation tolerances and other conditions affecting performance of drywall construction. Do  
12 not proceed with installation until unsatisfactory conditions have been corrected.

#### 13 **3.02. PREPARATION:**

- 14 A. Ceiling Anchorages: Coordinate installation of ceiling suspension with installation of overhead  
15 structural systems to ensure that inserts and other structural anchorage provisions have been  
16 installed to receive ceiling anchors in a manner that will develop their full strength and at spacing  
17 required to support ceiling.

#### 18 **3.03. INSTALLATION OF STEEL FRAMING, GENERAL:**

- 19 A. Steel Framing Installation Standard: Install steel framing to comply with ASTM C 754 and with  
20 ASTM C 840 requirements that apply to framing installation.
- 21 B. Install supplementary framing, blocking and bracing at terminations in the work and for support of  
22 fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, and similar  
23 construction to comply with details indicated and with recommendations of gypsum board  
24 manufacturer, or if nonavailable, with "Gypsum Construction Handbook" published by United  
25 States Gypsum Co.
- 26 C. Isolate steel framing from building structure to prevent transfer of loading imposed by structural  
27 movement, at locations indicated below to comply with details shown on Drawings:
- 28 1. Where edges of suspended ceilings abut building structure horizontally at ceiling  
29 perimeters or penetration of structural elements.
- 30 2. Where partitions and wall framing abuts overhead structure.
- 31 D. Do not bridge building expansion and control joints with steel framing or furring members;  
32 independently frame both sides of joints with framing or furring members or as indicated.

#### 33 **3.04. INSTALLATION OF STEEL FRAMING FOR SUSPENDED AND FURRED CEILINGS:**

- 34 A. Secure hangers to structural support by connecting directly to structure where possible,  
35 otherwise connect to cast-in concrete inserts or other anchorage devices or fasteners as  
36 indicated.
- 37 B. Do not connect or suspend steel framing from ducts, pipes or conduit.
- 38 C. Keep hangers and braces 2 inches clear of ducts, pipes and conduits.
- 39 D. Sway-brace suspended steel framing with hangers used for support.
- 40 E. Install suspended steel framing components in sizes and at spacing indicated but not less than  
41 that required by referenced steel framing installation standard.
- 42 1. Wire Hangers: 0.1620 inch diameter (8 gage), 4 ft. on center.
- 43 2. Carrying Channels (Main Runners): 1-1/2 inch, 4 ft. on center.
- 44 3. Rigid Furring Channels (Furring Members): 16 inches on center.
- 45 F. Installation Tolerances: Install steel framing components for suspended ceilings so that the cross  
46 furring members or grid suspension members are level to within 1/8 inch in 12 ft. as measured  
47 both lengthwise on each member and transversely between parallel members.
- 48 G. Wire-tie or clip furring members to main runners and to other structural supports as indicated.

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- 1 H. Grid Suspension System: Attach perimeter wall track or angle where grid suspension system  
2 meets vertical surfaces. Mechanically join main beam and cross furring members to each other  
3 and butt-cut to fit into wall track.

### 3.05. INSTALLATION OF STEEL FRAMING FOR WALLS AND PARTITIONS:

- 4  
5 A. Install runners (tracks) at floors, ceilings and structural walls and columns where gypsum drywall  
6 stud system abuts other construction.
- 7 B. Installation Tolerances: Install each steel framing and furring member so that fastening surface  
8 do not vary more than 1/8 inch from plane of faces of adjacent framing.
- 9 C. Extend partition framing full height to structural supports or substrates above suspended ceilings,  
10 except where partitions are indicated to terminate at suspended ceilings. Continue framing over  
11 frames for doors and openings and frame around ducts penetrating partitions above ceiling to  
12 provide support for gypsum board.
- 13 D. Terminate partition framing at suspended ceilings where indicated.
- 14 E. Install steel studs and furring in sizes and at spacings indicated, but not less than that required  
15 by referenced steel framing installation standard.
- 16 1. For single layer construction: 16 inches on center.
- 17 F. Install steel studs so that flanges point in the same direction and gypsum boards can be installed  
18 in the direction opposite to that of the flange.
- 19 G. Frame door openings to comply with details indicated, with GA-219 and with applicable published  
20 recommendations of gypsum board manufacturer. Attach vertical studs at jambs with screws  
21 either directly to frames or to jamb anchor clips on door frames; install runner track section (for  
22 cripple studs) at head and secure to jamb studs.
- 23 1. Extend vertical jamb studs through suspended ceilings and attach to underside of floor or  
24 roof structure above.
- 25 H. Frame openings other than door openings to comply with details indicated or if none is  
26 indicated, in same manner as required for door openings; and install framing below sills of  
27 openings to match framing required above door heads.

### 3.06. APPLICATION AND FINISHING OF GYPSUM BOARD, GENERAL:

- 28  
29 A. Gypsum Board Application and Finishing Standards: Install and finish gypsum board to comply  
30 with ASTM C 840.
- 31 B. Locate exposed end-butt joints as far from center of walls and ceilings as possible, and stagger  
32 not less than 24 inches in alternate courses of board.
- 33 C. Install ceiling boards across framing in the manner which minimizes the number of end-butt  
34 joints, and which will avoid end joints in the central area of each ceiling. Stagger end joints at  
35 least 24 inches.
- 36 D. Install wall/partition boards in manner which minimizes the number of end-butt joints or avoids  
37 them entirely where possible. At stairwells and similar high walls, install boards horizontally with  
38 end joints staggered over studs.
- 39 E. Install exposed gypsum board with face side out. Do not install imperfect, damaged or damp  
40 boards. Butt boards together for a light contact at edges and ends with not more than 1/16" open  
41 space between boards. Do not force into place.
- 42 F. Located either edge or end joints over supports, except in horizontal applications or where  
43 intermediate supports or gypsum board back-blocking is provided behind end joints. Position  
44 boards so that like edges abut, tapered edges against tapered edges and mill-cut or field-cut  
45 ends against mill-cut or field-cut ends. Do not place tapered edges against cut edges or ends.  
46 Stagger vertical joints over different studs on opposite sides of partitions.
- 47 G. Attach gypsum board to steel studs so that leading edge or end of each board is attached to  
48 open (unsupported) edge of stud flange first.
- 49 H. Attach gypsum board to supplementary framing and blocking provided for additional support at  
50 openings and cutouts.

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- 1 I. Spot grout hollow metal door frames for solid core wood doors, hollow metal doors and doors  
2 over 32 inches wide. Apply spot grout at each jamb anchor clip just before inserting board into  
3 frame.
- 4 J. Form control joints and expansion joints at locations indicated, with space between edges of  
5 boards, prepared to receive trim accessories.
- 6 K. Cover both faces of steel stud partition framing with gypsum board in concealed spaces (above  
7 ceilings, etc.), except in chase walls which are properly braced internally.
- 8 1. Except where concealed application is indicated or required for sound, fire, air or smoke  
9 ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. area and may  
10 be limited to not less than 75 percent of full coverage.
- 11 2. Fit gypsum board around ducts, pipes, and conduits.
- 12 3. Where partitions intersect open concrete coffers, cut gypsum board to fit profile of coffers  
13 and allow 1/4 to 1/2 inch wide joint for sealant.
- 14 L. Isolate perimeter of non-load-bearing drywall partitions at structural abutments. Provide 1/4 inch  
15 to 1/2 inch space and trim edge with "U" bead edge trim. Seal joints with acoustical sealant.
- 16 M. Where sound-rated drywall construction is indicated, seal construction at perimeters, control and  
17 expansion joints, openings and penetrations with a continuous bead of acoustical sealant  
18 including a bead at both faces of partitions. Comply with ASTM C 919 and manufacturer's  
19 recommendations for location of edge trim, and close off sound-flanking paths around or through  
20 construction, including sealing of partitions above acoustical ceilings.
- 21 N. Space fasteners in gypsum boards in accordance with referenced gypsum board application and  
22 finishing standard and manufacturer's recommendations.

### 3.07. METHODS OF GYPSUM DRYWALL APPLICATION:

- 24 A. Single-layer Application: Install gypsum wallboard as follows:
- 25 1. On ceilings apply gypsum board prior to wall/partition board application to the greatest  
26 extent possible.
- 27 2. On partitions/walls apply gypsum board horizontally unless otherwise indicated and provide  
28 sheet lengths which will minimize end joints.
- 29 B. Wall Tile Base: Where drywall is base for thin-set ceramic tile and similar rigid applied wall  
30 finishes, install gypsum backing board.
- 31 1. In "dry" areas install gypsum backing board or wallboard with tapered edges taped and  
32 finished to produce a flat surface.
- 33 C. Single-Layer Fastening Methods: Apply gypsum boards to supports as follows:
- 34 1. Fasten with screws.
- 35 D. Direct Bonding to Substrate: Where gypsum board is indicated to be directly adhered to a  
36 substrate (other than studs, joists, furring members or base layer of gypsum board), comply with  
37 gypsum board manufactures' recommendations, and temporarily brace or fasten gypsum board  
38 until fastening adhesive has set.

### 3.08. INSTALLATION OF GLASS MAT UNITS

- 40 A. Attach glass mat units to substrate in a manner acceptable to both the glass mat units  
41 manufacturer and Exterior Insulation and Finish Systems manufacturer.

### 3.09. INSTALLATION OF DRYWALL TRIM ACCESSORIES:

- 43 A. General: Where feasible, use the same fasteners to anchor trim accessory flanges as required to  
44 fasten gypsum board to the supports. Otherwise, fasten flanges to comply with manufacturers'  
45 recommendations.
- 46 B. Install metal corner beads at external corners.
- 47 C. Install metal edge trim whenever edge of gypsum board would otherwise be exposed or  
48 semi-exposed, and except where plastic trim is indicated. Provide type with face flange to receive  
49 joint compound except where "U" bead (semi-finishing type) is indicated.
- 50 1. Install 'LC' bead where drywall construction tightly abuts other construction and back flange  
51 can be attached to framing or supporting substrate.

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- 1                    2. Install 'L' bead where trim can only be installed after gypsum board.
- 2                    D. Install control joints at locations indicated, or if not indicated, at spacing and locations required by
- 3                    referenced gypsum board application and finish standard and approved by the Architect for
- 4                    visual effect.

### 3.10. FINISHING OF DRYWALL:

- 5
- 6                    A. General: Apply joint treatment at gypsum board joints (both directions); flanges of corner bead,
- 7                    edge trim, and control joints; penetrations; fastener heads, surface defects.
- 8                    B. Pre-fill open joints and rounded or beveled edges, if any, using setting-type joint compound.
- 9                    C. Apply joint tape at joints between gypsum boards, except where trim accessories are indicated.
- 10                    D. Finish gypsum wallboard by applying the following joint compounds in 3 coats (not including pre-
- 11                    fill of openings in base), and sand between coats and after last coat:
- 12                    1. Embedding and First Coat:            Ready-mix drying-type all-purpose or taping compound.
- 13                    2. Fill (Second) Coat:                    Ready-mix drying-type all-purpose or topping compound.
- 14                    3. Finish (Third) Coat:                    Ready-mix drying-type all-purpose or topping compound.
- 15                    E. Partial Finishing: Omit third coat and sanding on concealed drywall construction which is
- 16                    indicated for drywall finishing or which requires finishing to achieve fire-resistance rating, sound
- 17                    rating or to act as air or smoke barrier.

### 3.11. APPLICATION OF TEXTURE FINISH:

- 18
- 19                    A. Surface Preparation and Primer: Prepare and prime drywall and other surfaces in strict
- 20                    accordance with texture finish manufacturer's instructions. Apply primer to all surfaces to achieve
- 21                    texture finish.
- 22                    B. Finish Application: Mix and apply finish to drywall and other surfaces indicated to receive finish in
- 23                    strict accordance with manufacturer's instructions to produce a uniform texture matching
- 24                    Architect's sample without starved spots or other evidence of thin application, and free of
- 25                    application patterns.
- 26                    1. Texture applied to walls shall have an "orange peel" appearance.
- 27                    C. Remove any texture droppings or overspray from door frames, windows and other adjoining
- 28                    work.

### 3.12. PROTECTION:

- 29
- 30                    A. Provide final protection and maintain conditions, in a manner suitable to Installer, which ensures
- 31                    gypsum drywall construction being without damage or deterioration at time of Substantial
- 32                    Completion.

## PART 4 - FIELD QUALITY CONTROL

### 4.01. EXAMINATION

- 33
- 34
- 35                    A. Verify that project conditions are appropriate for work of this section to commence.
- 36

### 4.02. FRAMING INSTALLATION

- 37                    A. Metal Framing: Comply with ASTM C 754 and manufacturer's instructions.
- 38                    B. Studs: Space studs as indicated.
- 39                    1. Extend stud framing through ceiling to structure above as indicated. Maintain clearance
- 40                    under structural building members to avoid deflection transfer to studs. Provide extended
- 41                    leg ceiling runners.
- 42                    C. Openings: Reinforce openings as required for weight of doors or operable panels, using not less
- 43                    than double 16 ga studs at jambs.
- 44                    D. Furring for Fire Ratings: Install as required for fire resistance ratings indicated and to GA-600
- 45                    requirements.
- 46                    E. Blocking: Install blocking for support of plumbing fixtures, toilet partitions, wall cabinets, toilet
- 47                    accessories, and hardware. Bolt or screw steel channels to studs.

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**4.03. ACOUSTIC ACCESSORIES INSTALLATION**

- A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.
- B. Acoustic Sealant: Install as follows:
  - 1. Install/ per ASTM C 919
  - 2. Place two beads continuously on substrate before installation of perimeter framing members.
  - 3. Place continuous bead at perimeter of each base layer of gypsum board.
  - 4. Seal around all penetrations by conduit, pipe, ducts, and rough-in boxes.

**4.04. GYPSUM BOARD INSTALLATION**

- A. Comply with ASTM C 840. Install to minimize butt end joints, especially in highly visible locations.
- B. Single-Layer Non-Rated: Install gypsum board in most economical direction, with ends and edges occurring over firm bearing.
- C. Single-Layer Fire-Rated: Install gypsum board vertically, with edges and ends occurring over firm bearing.
- D. Gypsum Sheathing: Install horizontally, with edges butted tight and ends occurring over firm bearing.
- E. Cementitious Backing Board: Install over metal studs, in accordance with manufacturer's instructions.
- F. Abuse Resistant Panel: Install per manufacturer's instructions.
- G. Installation on Metal Framing: Use screws for attachment of all gypsum board.
- H. Moisture Protection: Treat cut edges and holes in moisture resistant gypsum board, and exterior gypsum soffit board with sealant.

**4.05. INSTALLATION OF TRIM AND ACCESSORIES**

- A. Comer Beads: Install at external comers, using longest practical lengths.
- B. Edge Trim: Install at locations where gypsum board abuts dissimilar materials.

**4.06. JOINT TREATMENT**

- A. Finish gypsum board in scheduled areas in accordance with levels defined in ASTM C 840 and as scheduled below.
- B. Fill and finish joints and comers of cementitious backing board.

**4.07. TEXTURE FINISH, IF ANY**

- A. Apply finish texture coating by means of spraying apparatus in accordance with manufacturer's instructions and to match approved sample.

**4.08. TOLERANCES**

- A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet in any direction.

**4.09. FINISH LEVEL SCHEDULE**

- A. Level 1: Above finished ceilings concealed from view.
- B. Level 2: Utility areas and areas behind cabinetry.
- C. Level 3: Walls scheduled to receive textured wall finish.
- D. Level 4: Walls and ceilings scheduled to receive flat or eggshell paint finish.
- E. Level 5: Walls and ceilings scheduled to receive semi-gloss or gloss paint finish.

**END OF SECTION**

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**SECTION 09 6500  
RESILIENT FLOORING**

**PART 1 - GENERAL**

**1.01. SECTION INCLUDES**

- A. Resilient tile flooring.
- B. Resilient sheet flooring
- C. Resilient base.
- D. Installation accessories.

**1.02. REFERENCES**

- A. ASTM E 648 -Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 1999.
- B. ASTM F 1861 -Standard Specification for Resilient Wall Base; 1998.
- C. NFPA 253 -Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; National Fire Protection Association; 1995.

**1.03. SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
- C. Selection Samples: Submit manufacturers complete set of color samples for Architect's initial selection.
- D. Verification Samples: Submit three samples, 12x12 inch in size illustrating color and pattern for each resilient flooring product specified.
- E. Shop Drawings: For each type of flooring, include flooring layouts, locations of seams, edges, columns, doorways, enclosing partitions, built-in furniture, cabinets, and cutouts.
  - 1. Show details of special patterns.
- F. Certifications: Submit a certification signed by the manufacturer and installer stating that the resilient flooring has been installed as specified and in accordance with fire-test response characteristics
- G. Maintenance Data: Include maintenance procedures recommended maintenance materials and suggested schedule for cleaning, stripping, and re-waxing.

**1.04. DELIVERY, STORAGE, AND PROTECTION**

- A. Protect roll materials from damage by storing on end.
- B. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Resilient Sheet Flooring: Furnish not less than 10 linear feet for every 500 linear feet or fraction thereof, in roll form and in full roll width for each type, color, and pattern of flooring installed

**1.05. ENVIRONMENTAL REQUIREMENTS**

- A. Maintain temperature in storage area between 55 degrees F and 90 degrees F.
- B. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

1           **1.06. QUALITY ASSURANCE**

- 2           A. Installer Qualifications: A qualified installer who employs workers for this Project who are  
3           competent in techniques required by manufacturer for resilient sheet flooring installation and  
4           seaming method indicated.  
5           1. Engage an installer who employs workers for this Project who are trained or certified by  
6           resilient sheet flooring manufacturer for installation techniques required.  
7           B. Provide the following upon request;  
8           1. Qualification Data: For Installer

9           **PART 2 - PRODUCTS**

10           **2.01. MATERIALS -TILE FLOORING**

- 11           A. Substitutions: See Section 01 6000 - Product Requirements.  
12           B. Vinyl Tile: Solid vinyl with color and pattern throughout thickness, and:  
13           1. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in  
14           accordance with ASTM E 648, or NFPA 253.  
15           2. Manufacturers:  
16           a. Armstrong; Product Classic Travertine, color as selected by Architect.  
17           b. Substitutions: See Section 01 6000 -Product Requirements.

18           **2.02. MATERIALS – BASE**

- 19           A. Resilient Base: ASTM F 1861, Type TS rubber, vulcanized thermoset; top set Style B, Cove,  
20           and as follows:  
21           1. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in  
22           accordance with ASTM E 648, or NFPA 253.  
23           2. Height: 6 inch.  
24           3. Thickness: 0.125 inch thick.  
25           4. Finish: Satin.  
26           5. Color: Color as selected from manufacturer's standards.  
27           6. Accessories: Pre-molded external comers, and end stops.  
28           7. Manufacturers:  
29           a. BurkeMercer Flooring Products, Inc.  
30           b. Substitutions: See Section 01 6000 -Product Requirements.

31           **2.03. MATERIALS – VINYL SHEET FLOORING WITH BACKING**

- 32           A. Product Standard: ASTM F 1303.  
33           1. 1. Type (Binder Content): Type I, minimum binder content of 90 percent.  
34           2. 2. Wear-Layer Thickness: Grade 1.  
35           3. 3. Overall Thickness: As standard with manufacturer.  
36           4. 4. Backing Class: Class A (fibrous).  
37           B. B. Wearing Surface: Embossed.  
38           C. C. Sheet Width: As standard with manufacturer.  
39           D. D. Seamless-Installation Method: Chemically bonded.  
40           E. E. Colors and Patterns: As selected by Architect from full range of industry colors

41           **2.04. ACCESSORIES**

- 42           A. Trowelable Leveling and Patching Compounds: Latex-modified, Portland cement based or  
43           blended hydraulic-cement-based formulation provided or approved by resilient sheet flooring  
44           manufacturer for applications indicated.  
45           B. Adhesives: Water-resistant type recommended by flooring and adhesive manufacturers to suit  
46           resilient sheet flooring and substrate conditions indicated.

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1. Adhesives shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- C. Seamless-Installation Accessories:
  1. Chemical-Bonding Compound: Manufacturer's product for chemically bonding seams.
    - a. Chemical-Bonding Compound shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- D. Integral-Flash-Cove-Base Accessories:
  1. Cove Strip: 1-inch radius provided or approved by resilient sheet flooring manufacturer.
  2. Cap Strip: Square metal, vinyl, or rubber cap provided or approved by resilient sheet flooring manufacturer.
- E. Moldings and Edge Strips: Same material as flooring.
- F. Filler for Coved Base: Plastic.
- G. Sealer and Wax: Types recommended by flooring manufacturer.

### **PART 3 - EXECUTION**

#### **3.01. EXAMINATION**

- A. Verify that concrete sub-floor surfaces are ready for resilient flooring installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.
- B. Verify that required floor-mounted utilities are in correct location.

#### **3.02. PREPARATION**

- A. Prepare substrates according to resilient flooring manufacturer's written instructions to ensure adhesion of resilient sheet flooring.
  1. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
  2. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
  3. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by resilient flooring manufacturer. Do not use solvents.
  4. Alkalinity and Adhesion Testing: Perform tests recommended by resilient flooring manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.
  5. Moisture Testing: Proceed with installation only after substrates pass testing according to resilient flooring manufacturer's written recommendations, but not less stringent than the following:
    - a. Perform relative humidity test using in situ probes according to ASTM F 2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level.
    - b. If water moisture tests exceed stated limits, apply vapor retarder for moisture vapor emission control as specified.
  6. Fill cracks, holes, and depressions in substrates with trawable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.
  7. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed.
- B. Do not install resilient flooring until it is the same temperature as the space where it is to be installed.
  1. At least 48 hours in advance of installation, move flooring and installation materials into spaces where they will be installed.

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- 1 C. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient  
2 flooring.

### 3 **3.03. INSTALLATION -TILE FLOORING**

- 4 A. Install in accordance with manufacturer's instructions.  
5 B. Mix tile from three containers to ensure shade variations are consistent when tile is placed.  
6 C. Mix tile from container to ensure shade variations are consistent when tile is placed.  
7 D. Spread only enough adhesive to permit installation of materials before initial set.  
8 E. Set flooring in place, press with heavy roller to attain full adhesion.  
9 F. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.  
10 G. Where floor finishes are different on opposite sides of door, terminate flooring under centerline  
11 of door.  
12 H. Install edge strips at unprotected or exposed edges, where flooring terminates, and where  
13 indicated.  
14 I. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce  
15 tight joints.  
16 J. Install flooring in recessed floor access covers. Maintain floor pattern.

### 17 **3.04. INSTALLATION -BASE**

- 18 A. Use longest lengths possible and fit joints tightly and make vertical.  
19 B. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.  
20 C. Miter internal corners. At external corners, use pre-molded units. At exposed ends, use pre-  
21 molded units.  
22 D. Install base on solid backing. Bond tightly to wall and floor surfaces.  
23 E. Scribe and fit to door frames and other interruptions.

### 24 **3.05. CLEANING**

- 25 A. Remove excess adhesive from floor, base, and wall surfaces without damage.  
26 B. Clean, seal, and wax resilient flooring products in accordance with manufacturer's instructions.

### 27 **3.06. PROTECTION OF FINISHED WORK**

- 28 A. Prohibit traffic on resilient flooring for 48 hours after installation.

29 **END OF SECTION**

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**SECTION 09 9000  
PAINTS AND COATINGS**

**PART 1 - GENERAL**

**1.01. SECTION INCLUDES**

- A. Surface preparation.
- B. Field application of paints and other coatings.
- C. Painting for Piping Identification
- D. See Schedule -Surfaces to be Finished, at end of Section.

**1.02. REFERENCES**

- A. ASME A 13.1 -Scheme for the Identification of Piping Systems; Latest Edition
- B. ASTM 0 16 -Standard Terminology for Paint, Coatings, Materials, and Applications; 1998b.
- C. ASTM 0 4442 -Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials; 1992 (Reapproved 1997).
- D. NACE (IMP) -Industrial Maintenance Painting; NACE International; current edition.
- E. SSPC (PM1) -Steel Structures Painting Manual, Vol. 1, Good Painting Practice; Society for Protective Coatings; 1993, Third Edition.
- F. SSPC (PM2) -Steel Structures Painting Manual, Vol. 2, Systems and Specifications; Society for Protective Coatings; 1995, Seventh Edition.

**1.03. SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on all finishing products.
- C. Samples for Color Selections: Submit manufacturer's standard color palette for Architect's selection.
- D. Samples: Submit three painted samples, illustrating selected colors for each color and system selected with specified coats cascaded. Submit on heavy cardboard, 12x12 inch in size.
- E. Submit three samples of sanded epoxy floor finish for owners' approval.
- F. Manufacturer's Instructions: Indicate special surface preparation procedures.
- G. Maintenance Data: Submit data on cleaning, touch-up, and repair of painted and coated surfaces.

**1.04. QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.
- B. Applicator Qualifications: Company specializing in performing the work of this section with minimum 3 years' experience.

**1.05. REGULATORY REQUIREMENTS**

- A. Conform to applicable code for flame, smoke and environmental requirements for products and finishes.

**1.06. DELIVERY, STORAGE, AND PROTECTION**

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

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### 1 1.07. ENVIRONMENTAL REQUIREMENTS

- 2 A. Do not apply materials when surface and ambient temperatures are outside the temperature
- 3 ranges required by the paint product manufacturer.
- 4 B. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

### 5 1.08. EXTRA MATERIALS

- 6 A. See Section 01 6000 - Product Requirements, for additional provisions.
- 7 B. Supply 1 gallon of each color; store where directed.
- 8 C. Label each container with color in addition to the manufacturer's label.

### 9 1.09. WARRANTY

- 10 A. Colors of all surfaces finished under this section shall, at the end of one year, have remained
- 11 free from serious fading, and variations, if any, shall be uniform. All materials shall have their
- 12 original adherence at the end of one year, and there shall be no evidence of blistering, running,
- 13 peeling, scaling, chalking, streaks or stains at the end of this period. Washing with alkali-free
- 14 soap and water shall remove surface dirt without producing any deteriorating effects.

## 15 **PART 2 - PRODUCTS**

### 16 2.01. MANUFACTURERS

- 17 A. Paints:
- 18 1. Frazee.
- 19 2. Glidden Professional.
- 20 3. Sherwin-Williams Co.
- 21 4. Dunn Edwards.
- 22 B. Substitutions: See Section 01 6000 -Product Requirements.

### 23 2.02. PAINTS AND COATINGS -GENERAL

- 24 A. Paints and Coatings: Ready mixed, except field-catalyzed coatings. Prepare pigments:
- 25 1. To a soft paste consistency, capable of being readily and uniformly dispersed to a
- 26 homogeneous coating.
- 27 2. For good flow and brushing properties.
- 28 3. Capable of drying or curing free of streaks or sags.

### 29 2.03. PAINT SYSTEMS -EXTERIOR

- 30 A. Paint Type PE-1 -Masonry, Opaque, Latex, 3 Coat:
- 31 1. One coat of C302 UltraTech 100% Acrylic block filler.
- 32 2. Flat: Two coats 203 Duratec II 100% Acrylic Flat.
- 33 B. Paint Type PE-2 -Ferrous Metals, Unprimed, Alkyd, 3 Coat:
- 34 1. One coat of E-59 Universal Epoxy Ester primer.
- 35 2. Semi-gloss: Two coats 628 Aro-Plate Alkyd Semi-Gloss.
- 36 C. Paint Type PE-3 -Ferrous Metals, Primed, Alkyd, 2 Coat:
- 37 1. Touch-up with E-59 Universal Epoxy Ester Primer.
- 38 2. Semi-gloss: Two coats of 628 Aro-Plate Alkyd Semi-Gloss.
- 39 D. Paint Type PE-4 -Galvanized Metals, Alkyd, 3 Coat:
- 40 1. One coat of E-59 Universal Metal Primer.
- 41 2. Semi-gloss: Two coats 628 Aro-Plate Alkyd Semi-Gloss.
- 42 E. Paint PE-5 -Brick Masonry: Rainguard Microseal per ASTM E 514-90, 2 Coats

### 43 2.04. PAINT SYSTEMS -INTERIOR

- 44 A. Paint Type PI-1 -Concrete, Opaque, Alkyd, 3 Coat:

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1. One coat of 168 Prime plus Primer Sealer.
2. Semi-gloss: Two coats of 628 Aro-Plate Alkyd Semi-gloss.
3. B. Paint Type PI-2 -Ferrous Metals, Unprimed, Alkyd, 3 Coat:
  4. One coat of E-59 Universal Epoxy Ester primer.
  5. Semi-gloss: Two coats 628 Aro-Plate Alkyd Semi-Gloss.
6. C. Paint Type PI-3 -Ferrous Metals, Primed, Alkyd, 2 Coat:
  7. Touch up with E-59 Universal Epoxy Ester primer.
  8. Semi-gloss: Two coats 628 Aro-Plate Alkyd Semi-Gloss.
9. D. Paint Type PI-4 -Galvanized Metals, Alkyd, 3 Coat:
  10. One coat of E-59 Universal Epoxy Ester primer.
  11. Semi-gloss: Two coats 628 Aro-Plate Alkyd Semi-Gloss.
12. E. Paint Type PI-5 -Concrete, Epoxy Coating:
  13. Two coats of E-10 High Solids Epoxy Coating with broadcast sand.
14. F. Paint Type PI-6 -Gypsum Board, Alkyd, 3 Coat:
  15. One coat of 168 Prime Plus primer.
  16. Semi-gloss: Two coats 628 Aro-Plate Alkyd Semi-Gloss.
17. G. PaintType PI-7 -Gypsum Board, Latex, 3 Coat:
  18. One coat of C152 UltraTech Multi Solution Primer.
  19. Eggshell: Two coats of 022 LoGlo Eggshell Enamel.
20. H. Paint Type PI-8 –Fabrics / insulation Jackets, Acrylic, 2 Coat:
  21. One coat of C152 UltraTech Multi Solution Primer.
  22. Semi-gloss: One coat of 124 Mirro-Glide Acrylic Semi-Gloss.
23. I. Paint Type PI-9 – Masonry walls:
  24. One coat of C203 UltraTech 100% Acrylic Block Filler.
  25. Semi-Gloss: Two coats of 628 Aro-Plate Alkyd Semi-Gloss.

### 2.05. ACCESSORY MATERIALS

27. A. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not
28. specifically indicated but required to achieve the finishes specified; commercial quality.
29. B. Patching Material: Latex filler.
30. C. Fastener Head Cover Material: Latex filler.
31. D. Sand or walnut shells

## **PART 3 - EXECUTION**

### **3.01. EXAMINATION**

34. A. Verify that surfaces are ready to receive Work as instructed by the product manufacturer.
35. B. Examine surfaces scheduled to be finished prior to commencement of work. Report any
36. condition that may potentially affect proper application.
37. C. Test shop-applied primer for compatibility with subsequent cover materials.
38. D. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes
39. unless moisture content of surfaces is below the following maximums:
  40. 1. Plaster and Gypsum Wallboard: 12 percent.
  41. 2. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.
  42. 3. Concrete Floors: 8 percent.

1           **3.02. PREPARATION**

- 2           A. Surface Appurtenances: Remove or mask electrical plates, hardware, light fixture trim,  
3           escutcheons, and fittings prior to preparing surfaces or finishing.
- 4           B. Surfaces: Correct defects and clean surfaces which affect work of this section.
- 5           C. Marks: Seal with shellac those which may bleed through surface finishes.
- 6           D. Impervious Surfaces: Remove mildew by scrubbing with solution of tri-sodium phosphate and  
7           bleach. Rinse with clean water and allow surface to dry.
- 8           E. Concrete and Unit Masonry Surfaces to be Painted: Remove dirt, loose mortar, scale, salt or  
9           alkali powder, and other foreign matter. Remove oil and grease with a solution of tri-sodium  
10           phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding  
11           metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.
- 12           F. Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime  
13           defects after repair.
- 14           G. Insulated Coverings to be Painted: Remove dirt, grease, and oil from canvas and cotton.
- 15           H. Concrete Floors to be Painted: Remove contamination, acid etch, and rinse floors with clear  
16           water. Verify required acid-alkali balance is achieved. Allow to dry.
- 17           I. Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with  
18           solvent. Apply coat of etching primer.
- 19           J. Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt,  
20           and rust. Where heavy coatings of scale are evident, remove by hand wire brushing or  
21           sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution,  
22           ensuring weld joints, bolts, and nuts are Similarly cleaned. Prime paint entire surface; spot  
23           prime after repairs.
- 24           K. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and  
25           rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent.  
26           Prime bare steel surfaces.
- 27           L. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

28           **3.03. APPLICATION**

- 29           A. Apply products in accordance with manufacturer's instructions.
- 30           B. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.
- 31           C. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is  
32           applied.
- 33           D. Apply each coat to uniform appearance. Apply each coat of paint slightly darker than preceding  
34           coat unless otherwise approved.
- 35           E. Broadcast sand or walnut shells into epoxy floor coating per manufacturers recommendations  
36           and upon approval of owner.
- 37           F. Vacuum clean surfaces loose particles. Use tack cloth to remove dust and particles just prior to  
38           applying next coat.

39           **3.04. FINISHING PIPING SYSTEMS**

- 40           A. Painting of Piping:
  - 41           1. Paint medical gas piping in the stockpile prior to installation. Leave ends unpainted where  
42           they will be brazed or soldered.
  - 43           2. After installation, touch up paint on exposed piping.
  - 44           3. Color codes for medical gas piping:
    - 45           a. Medical compressed air: Yellow
    - 46           b. Oxygen: Green
    - 47           c. Nitrous Oxide: Medium blue
    - 48           d. Mechanical Piping:

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- 1 4. Exposed or concealed, but accessible insulated and uninsulated mechanical piping Shall
- 2 be painted in its entirety.
- 3 5. Color codes for mechanical piping:
- 4 a. Chilled water: Pale green
- 5 b. Condensed water. Blue-green
- 6 c. Heating hot water: Pink
- 7 d. Steam: Dark orange
- 8 e. Steam condensate: Light orange
- 9 f. Domestic cold water: Dark blue
- 10 g. Domestic hot water: Rose red
- 11 h. Natural gas: Magenta

### 12 3.05. CLEANING

- 13 A. Collect waste material which may constitute a fire hazard, place in closed metal containers, and
- 14 remove daily from site.

### 15 3.06. SCHEDULE -SURFACES TO BE FINISHED

- 16 A. Do Not Paint or Finish the Following Items:
- 17 1. Items fully factory-finished unless specifically noted.
- 18 2. Fire rating labels, equipment serial number and capacity labels.
- 19 3. Stainless steel items.
- 20 B. Paint the surfaces described below under Schedule -Paint Systems.
- 21 C. Mechanical and Electrical: Use paint systems defined for the substrates to be finished.
- 22 1. Paint shop-primed items occurring in finished areas.
- 23 2. Paint interior surfaces of air ducts that are visible through grilles and louvers with one coat
- 24 of flat black paint to visible surfaces.
- 25 3. Paint dampers exposed behind louvers, grilles, to match face panels.
- 26 D. Paint both sides and edges of plywood backboards for electrical and telephone equipment
- 27 before installing equipment.

### 28 3.07. SCHEDULE -PAINT SYSTEMS

- 29 A. General: See FINISH SCHEDULE on drawings. See below for those items not listed in the
- 30 schedule.
- 31 B. Concrete Block: Finish all surfaces exposed to view and parapet walls.
- 32 1. Exterior: PE-1
- 33 2. Interior: PI-9.
- 34 C. Brick Masonry: Finish all exposed surfaces.
- 35 1. Exterior: PE-5
- 36 D. Steel Doors and Frames:
- 37 1. Exterior Face: PE-3
- 38 E. Steel Fabrications: Finish all surfaces exposed to view.
- 39 1. Primed:
- 40 a. Exterior: PE-3
- 41 b. Interior: PI-3
- 42 2. Un-Primed:
- 43 a. Exterior: PE-2
- 44 b. Interior: PI-2
- 45 F. Galvanized Steel: Finish all surfaces exposed to view.
- 46 a. Exterior: PE-4
- 47 b. Interior: PI-4

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- 1 G. Shop-Primed Metal Items: Finish all surfaces exposed to view.
- 2 1. Finish the following items:
- 3 a. Exposed surfaces of lintels.
- 4 b. Pit ladders.
- 5 c. Exposed surfaces of steel railings.
- 6 2. Exterior: PE-3
- 7 3. Interior: PI-3

### 3.08. FINISHED WORK

- 9 A. Finishes shall be free of cloudiness, spotting, laps, brush marks, runs, sags, or other surface
- 10 imperfections.
- 11 B. Opaque finishes shall be clean, smooth and of uniform finish, color, appearance and coverage.
- 12 C. Transparent finishes shall be clean, glass-smooth and of even luster.
- 13 D. Other areas shall be free of debris and damage from work of this section.

14 **END OF SECTION**

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**SECTION 10 2650**  
**WALL SURFACE PROTECTION SYSTEM**

**PART 1 - GENERAL**

**1.01. RELATED DOCUMENTS**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

**1.02. SUMMARY**

- A. This Section includes the following types of wall surface protection systems:
1. Rigid sheet wall covering panels.
- B. Related Sections: The following Sections contain requirements that relate to this Section:

**1.03. SUBMITTALS**

- A. General: Submit the following in accordance with Conditions of the Contract and Division 1 Specification Sections.
- B. Product data for each wall surface protection system component and installation accessory required, including installation methods for each type of substrate. Provide written data on each required component including physical characteristics, such as durability, resistance to fading, and flame resistance.
- C. Shop drawings showing locations, extent, and installation details. Show methods of attachment to adjoining construction.
- D. Samples for Initial Selection: For initial selection of color, pattern and surface texture, provide the manufacturer's standard color chips consisting of actual sections of each vinyl plastic material required showing the full range of materials, colors, and textures available.
- E. Samples for Verification Purposes: Submit the following samples, prepared from the same material to be used in the Work, for verification of color, pattern, and texture selected and for compliance with requirements indicated:
1. 6-inch by 6-inch square (minimum size) samples of each rigid sheet or panel type wall surface protection material required.
- F. Maintenance data for wall surface protection system components for inclusion in the Operating and Maintenance Manuals specified in Division 1.

**1.04. QUALITY ASSURANCE**

- A. Installer Qualifications: Engage an experienced Installer who has previously installed wall surface protection systems similar in material, design, and extent to the systems indicated for this Project.
- B. Manufacturer Qualifications: Firm experienced in manufacturing wall surface protection system components that are similar to those required for this Project and that have a record of successful in-service performance.
- C. Fire Performance Characteristics: Provide wall surface protection system components that are identical to those tested in accordance with ASTM E 84 for the fire performance characteristics indicated below. Identify wall surface protection system components with appropriate markings from the testing and inspection organization.
1. Flame Spread: 25 or less.
  2. Smoke Developed: 450 or less.
- D. Impact Strength: Provide wall surface protection system components with a minimum impact resistance of 25.4 ft. lbs. per sq. ft. when tested in accordance with ASTM D 256 (Izod impact, ft. lbs. per inch notch).
- E. Single Source Responsibility: Obtain each color, grade, finish, and type of wall surface protection system component from a single source with resources to provided products of consistent quality in appearance and physical properties without delaying progress of the Work.

1           **1.05. DELIVERY, STORAGE, AND HANDLING**

- 2           A. Deliver materials to Project site in original factory wrappings and containers, clearly labeled with  
3           identification of manufacturer, brand name, quality or grade, and fire hazard classification.
- 4           B. Store wall surface protection materials in original undamaged packages and containers inside a  
5           well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and  
6           humidity.
- 7                 1. Maintain room temperature within the storage area at not less than 70 deg F (21 deg C)  
8                 during the period plastic materials are stored. Keep sheet material out of direct sunlight to  
9                 avoid surface distortion.
- 10                2. Store rigid plastic wall guard in a horizontal position for a minimum of 72 hours, or until the  
11                plastic material attains the minimum room temperature of 70 deg F (21 deg C).

12           **1.06. PROJECT CONDITIONS**

- 13           A. Environmental Conditions: Do not install wall surface protection system components until the  
14           space is enclosed and weatherproof and until the ambient temperature within the building is  
15           maintained at not less than 70 deg F (21 deg C) for not less than 72 hours prior to beginning of  
16           the installation. Do not install rigid plastic wall surface protection systems until that temperature  
17           has been attained and is stabilized.

18           **1.07. MAINTENANCE**

- 19           A. Maintenance Instructions: Provide the manufacturer's instructions for maintenance of installed  
20           work. Include recommended methods and frequency for maintaining optimum condition under  
21           anticipated traffic and use conditions. Include precautions against cleaning materials and  
22           methods that may be detrimental to finishes and performance.
- 23           B. Replacement Materials: After completion of work, deliver not less than 2 percent of each type,  
24           color, and pattern of wall surface protection material. Replacement materials shall be from the  
25           same production run as materials installed. Package replacement materials with protective  
26           covering, identified with appropriate labels.

27           **PART 2 - PRODUCTS**

28           **2.01. MANUFACTURERS**

- 29           A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering  
30           products for wall surface protection which may be incorporated into the Work include, but are  
31           not limited to, the following:
- 32                 1. Construction specialties, Inc.  
33                 2. InPro Corporation  
34                 3. Koroseal Wallcoverings

35           **2.02. MATERIALS**

- 36           A. Plastic Sheet Wall Covering Material: Textured, chemical- and stain-resistant, high-impact,  
37           polyvinyl chloride (PVC) or acrylic modified vinyl plastic sheets, thickness as indicated. Comply  
38           with specified requirements of ASTM D 256 for impact resistance and ASTM E 84 for flame  
39           spread and smoke developed characteristics.
- 40                 1. Colors and Textures of Plastic Material: Provide extruded plastic material that matches  
41                 selections made by the Architect from the manufacturer's full range of standard colors and  
42                 textures.
- 43           B. Accessories: Provide top caps, inside corner, divider bars and outside corners from extruded  
44           PVC and as recommended by the manufacturer.

45           **2.03. IMPACT-RESISTANT WALL COVERINGS**

- 46           A. Semi-rigid Sheet Wall Covering: Provide manufacturer's standard semirigid, embossed,  
47           fiber-backed, impact-resistant plastic sheets. Sheets shall comply with fire performance  
48           characteristics specified and be chemical- and stain-resistant. Provide manufacturer's standard  
49           matching moldings and trim as required.
- 50                 1. Sheet Size:                 4 feet by 8 feet.  
51                 2. Sheet Thickness:         0.06 inch thick (minimum.)

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- 1                    3. Trim: Provide manufacturer's standard matching moldings and trim as required.
- 2                    B. Color Matched Caulk: Manufacturer's standard
- 3                    C. Adhesive and Primer: As recommended by manufacturer.

4                    **2.04. FABRICATION**

- 5                    A. General: Fabricate wall protection systems to comply with requirements indicated for design,
- 6                    dimensions, details, finish, and member sizes, including wall thicknesses of components.
- 7                    B. Provide surfaces free of evidence of wrinkling, chipping, uneven coloration, dents, and other
- 8                    imperfections.

9                    **PART 3 - EXECUTION**

10                   **3.01. EXAMINATION**

- 11                   A. Examine areas and conditions in which wall protection systems will be installed.
- 12                   1. Complete all finishing operations, including painting, before beginning installation of wall
- 13                   surface protection system materials.
- 14                   B. Impact-Resistant Wall Covering Materials: Wall surfaces to receive impact-resistant wall
- 15                   covering materials shall be dry and free from dirt, grease, loose paint, and scale.
- 16                   C. Do not proceed with installations until unsatisfactory conditions have been corrected.

17                   **3.02. PREPARATION**

- 18                   A. General: Prior to installation, clean substrate to remove dust, debris, and loose particles.

19                   **3.03. INSTALLATION**

- 20                   A. General: Install wall surface protection units plumb, level, and true to line without distortions.
- 21                   1. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible
- 22                   in the finished work.

23                   **3.04. CLEANING**

- 24                   A. General: Immediately upon completion of installation, clean plastic covers and accessories
- 25                   using a standard ammonia-based household cleaning agent. Clean metal components in
- 26                   accordance with the manufacturer's recommendations.
- 27                   B. Remove excess adhesive using methods and materials recommended by manufacturer.
- 28                   C. Remove surplus materials, rubbish, and debris resulting from installation upon completion of
- 29                   work and leave areas of installation in neat, clean condition.

30                   **END OF SECTION**

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**SECTION 10 4413  
FIRE EXTINGUISHERS AND CABINETS**

**PART 1 - GENERAL**

**1.01. SECTION INCLUDES**

- A. Fire extinguishers.

**1.02. REFERENCES**

- A. UL (FPED) -Fire Protection Equipment Directory; Underwriters Laboratories Inc.; current edition.

**1.03. PERFORMANCE REQUIREMENTS**

- A. Conform to NFPA 10 and Title 19 of the California Code of Regulation.
- B. Provide extinguishers classified and labeled by Underwriters Laboratories Inc. for the purpose specified and indicated.

**1.04. SUBMITTALS**

- A. See Section 01 3000 -Administrative Requirements, for submittal procedures.
- B. Product Data: Provide extinguisher operational features.
- C. Manufacturer's Installation Instructions: Indicate special criteria and wall opening coordination requirements.
- D. Maintenance Data: Include test, refill or recharge schedules and re-certification requirements.

**1.05. ENVIRONMENTAL REQUIREMENTS**

- A. Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients.

**PART 2 - PRODUCTS**

**2.01. MANUFACTURERS**

- A. Fire Extinguishers, and Accessories:
  - 1. JL Industries, Inc.
  - 2. Larsen's Manufacturing Co.
  - 3. Potter-Roemer.
  - 4. Substitutions: See Section 01 6000 - Product Requirements.

**2.02. FIRE EXTINGUISHERS**

- A. Fire extinguishers shall comply with requirements of governing authorities and manufacturer's requirement.
- B. Size and classification as indicated.

**2.03. MOUNTING BRACKETS:**

- A. Provide manufacturer's standard bracket designed to prevent accidental dislodgement of extinguisher, of proper size for type and capacity of extinguisher indicated, in manufacturer's standard plated finish.

**PART 3 - EXECUTION**

**3.01. EXAMINATION**

- A. Verify existing conditions before starting work.

**3.02. INSTALLATION**

- A. Install in accordance with manufacturer's instructions.
- B. Install brackets for a level and plumb extinguisher and locate so that top of extinguisher will be 48 inches above finished floor.

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- 1 C. Secure rigidly in place.
- 2 D. Place extinguishers on wall brackets.

3 **END OF SECTION**

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