



PROJECT MANUAL FOR:

**LOGAN YSA CORRIDOR FINISHES**

1230 N. 600 E.  
LOGAN, UT

PROPERTY NUMBER: 539184922060101

PROJECT NUMBER: 2404

DATE: 03.29.24

**STUDIO 333 ARCHITECTS**  
333 24TH STREET  
OGDEN, UT 84401  
801.394.3033

STUDIO333ARCHITECTS.COM

SET NO.



ARCHITECT STUDIO 333 ARCHITECTS  
333 24<sup>TH</sup> STREET  
OGDEN, UTAH 84401  
801.394.3033

ARCHITECT'S SEAL:



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## LOGAN YSA CORRIDOR FINISHES

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**BIDDING REQUIREMENTS:**

- Invitation to Bid
- Instructions to Bidders
- Construction Material Asbestos Statement
- Sample Forms
- Contractor Bid Proposal and R & I Project Agreement
- Subcontractors and Major Material Suppliers List

**CONDITIONS OF THE CONTRACT:**

- Supplementary Conditions



## **BIDDING REQUIREMENTS**

### **FOR SMALL PROJECTS (U.S.)**

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## INVITATION TO BID (U.S.)

**1. PROJECT:**

Logan YSA Corridor Finishes

**2. LOCATION:**

1230 N. 600 E., Logan, Utah

**3. OWNER:**

The Church of Jesus Christ of Latter-day Saints, a Utah corporation sole  
c/o  
Ogden Utah PM Office  
PO Box 13328  
Ogden, Utah 84412

**4. CONSULTANT:**

Studio 333 Architects  
333 24th Street  
Ogden, Utah 84401

**5. DESCRIPTION OF PROJECT:**

- A. Interior remodel of existing building including but not limited to replacement of interior finishes and drinking fountains.
- B. Products or systems may be provided under a Value Managed Relationship (VMR) the Owner has negotiated with the supplier. VMR products and systems are indicated as such in the Specifications.

**6. TYPE OF BID:** Bids will be on a lump-sum basis. Segregated bids will not be accepted.

**7. TIME OF SUBSTANTIAL COMPLETION:** The time limit for substantial completion of this work will be Sixty (60) calendar days and will be as noted in the Agreement.

**8. BID OPENING:** Bids will be received until 2:00 pm on Tuesday, April 9, 2024 via Conslog Bidding Software. Details of the bidding process will be provided at the pre-bid meeting.

**9. BIDDING DOCUMENTS:**

A. Bidding Documents are available to invited Contractors via Conslog.

**10. BIDDER'S QUALIFICATIONS:** Bidding by the Contractors will be by invitation only.

**11. OWNER'S RIGHT TO REJECT BIDS:** Owner reserves the right to reject any or all bids and to waive any irregularity therein.

END OF DOCUMENT

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## 1. DOCUMENTS:

- A. Bidding Documents include Bidding Requirements and proposed Contract Documents. Proposed Contract Documents consist of:
  - 1) Agreement Between Owner and Contractor for Small Project (U.S.)
  - 2) Other documents included by reference
  - 3) Addenda.
- B. Bidding Requirements are those documents identified as such in proposed Project Manual.
- C. Addenda are written or graphic documents issued prior to execution of the Contract which modify or interpret the Bidding Documents. They become part of the Contract Documents as noted in the Agreement Between Owner and Contractor for Small Project (U.S.) upon execution of the Agreement by Owner.

## 2. BIDDER'S REPRESENTATIONS:

- A. By submitting a bid proposal, bidder represents that
  - 1) Bidder has carefully studied and compared Bidding Documents with each other. Bidder understands the Bidding Documents and the bid is fully in accordance with the requirements of those documents,
  - 2) Bidder has thoroughly examined the site and building located thereon, has become familiar with local conditions which might directly or indirectly affect contract work, and has correlated its personal observations with requirements of proposed Contract Documents, and
  - 3) Bid is based on materials, equipment, and systems required by Bidding Documents without exception.

## 3. BIDDING DOCUMENTS:

- A. Copies
  - 1) Owner will provide the Bidding Documents as set forth in the Invitation to Bid.
  - 2) Partial sets of Bidding Documents will not be issued.
- B. Interpretation or Correction of Bidding Documents
  - 1) Bidders will request interpretation or correction of any apparent errors, discrepancies, and omissions in the Bidding Documents.
  - 2) Corrections or changes to Bidding Documents will be made by written Addenda.
- C. Substitutions and Equal Products
  - 1) Equal products may be approved upon compliance with Contract Document requirements.
  - 2) Base bid only on materials, equipment, systems, suppliers or performance qualities specified in the Bidding documents.
  - 3) Where a specified product is identified as a "quality standard", products of other manufacturers that meet the performance, properties, and characteristics of the specified "quality standard" may be used without specific approval as a substitute.
- D. Addenda. Addenda will be sent to bidders and to locations where Bidding Documents are on file no later than one week prior to bid opening or by fax no later than 48 hours prior to bid opening.

## 4. BIDDING PROCEDURES:

- A. Form and Style of Bids
  - 1) Use Conslog Bidding App.
  - 2) Bid will be complete and executed by authorized representative of Bidder.

3) Do not delete from or add to the information requested on bid form.

B. Submission of Bids

- 1) It is bidder's sole responsibility to see that its bid is received at or before the specified time. Bids received after specified bid opening time will not be accepted.
- 2) No oral, facsimile transmitted, telegraphic, or telephonic bids, modifications, or cancellations will be considered.

C. Modification or Withdrawal of Bid

- 1) Bidder guarantees there will be no revisions or withdrawal of bid amount for 45 days after bid opening.
- 2) Prior to bid opening, bidders may withdraw bid by written request or by reclaiming bid envelope.
- 3) Prior to bid opening, bidder may mark and sign on the sealed envelope that bidder acknowledges any or all Addenda.

**5. CONSIDERATION OF BIDS:**

A. Opening Of Bids - See Invitation to Bid.

B. Acceptance Of Bid

- 1) No bidder will consider itself under contract after opening and reading of bids until Owner accepts Contractor's Bid Proposal by executing same.
- 2) Bidder's past performance, organization, subcontractor selection, equipment, and ability to perform and complete its contract in manner and within time specified, together with amount of bid, will be elements considered in award of contract.

**6. FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR:**

A. Agreement form will be "Agreement Between Owner and Contractor for Small Project (U.S.);" provided by Owner.

**7. MISCELLANEOUS:**

A. Pre-Bid Conference. A pre-bid conference may be held at a time and place to be announced.

**END OF DOCUMENT**



**SMALL PROJECT AGREEMENT  
BETWEEN OWNER AND CONTRACTOR  
Fixed Sum (U.S.)**

The Church of Jesus Christ of Latter-day Saints, a Utah corporation sole ("Owner") and \_\_\_\_\_ ("Contractor") enter into this *Small Project Agreement Between Owner and Contractor (U.S.)* ("Agreement") and agree as follows:

1. **Property/Project.**

Property/Project Number: \_\_\_\_\_  
Property Address ("Project Site"): \_\_\_\_\_  
Project Type: \_\_\_\_\_  
Project Name ("Project"): \_\_\_\_\_  
Stake Name: \_\_\_\_\_

2. **Scope of Work.** Contractor will furnish all labor, materials, tools, and equipment necessary to complete the Work in accordance with the Contract Documents. The Work is all labor, materials, tools, equipment, construction, and services required by the Contract Documents (the "Work").

3. **Contract Documents.** Contract Documents consist of:

- a. This Agreement;
- b. Supplementary Conditions for Small Project Agreement Between Owner and Contractor (U.S.);
- c. The Specifications (Division 01 and Divisions \_\_\_\_\_);
- d. Drawings entitled and dated \_\_\_\_\_;
- e. Addendum No. with date(s) \_\_\_\_\_;
- g. All written Field Changes, written Construction Change Directives and written Change Orders when prepared and signed by Owner and Contractor.

4. **Compensation.** Owner will pay Contractor for performance of Contractor's obligations under the Contract Documents the sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) (the "Contract Sum"). This Contract Sum includes all labor, materials, equipment, tools, costs, expenses, work and services of Contractor and its subcontractors necessary to perform the Work in accordance with the terms of this Agreement, including without limitation travel, communications, and copying costs.

5. **Payment.**

- a. If the Contract Sum is over \$100,000 or if otherwise requested by Owner, Contractor will submit to Owner a schedule of values which allocates the Contractor's Bid Proposal Amount to various portions of the Work. This schedule, when accepted by Owner will be used as a basis for reviewing Contractor's payment requests.
- b. Not more than once each month, Contractor will submit a payment request to Owner. Owner will pay Contractor for work completed within thirty (30) days after Owner receives:
  - 1) Contractor's payment request for work to date;
  - 2) a certification by Contractor that Contractor has paid for all labor, materials, and equipment relating to the Work covered by prior payment requests and that Contractor will pay for all labor, materials, and equipment relating to the Work covered by the current payment request; and
  - 3) releases of all mechanics' liens and claims of subcontractors, laborers, or material suppliers who supplied labor and/or materials for the Work covered by the payment request.
  - 4) updated Construction Schedule.
- c. Owner may modify or reject the payment request if, in Owner's opinion, the Work for which payment is requested is not acceptable or is less complete than represented on the payment request.
- d. Contractor will timely pay subcontractors their portion of fees and expenses that Owner has paid to Contractor.

FORM OF AGREEMENT



6. **Extras and Change Orders.** Owner may order changes in the Work by altering, adding to, or deducting from the Work. In the event of such a change, the Contract Sum and/or the time of completion will be adjusted to reflect the change by means of a written Change Order signed by Contractor and Owner. Contractor will not commence work on any change until either: (a) Contractor and Owner have executed a Change Order; or (b) Owner has issued a written order for the change acknowledging that there is a dispute regarding the compensation adjustment relating to the change. If Contractor proceeds with a change in the Work without complying with the preceding sentence, Contractor agrees that it will not be entitled to any additional compensation for such change.
7. **Warranty and Correction of Work.** For all Work, services, labor, materials, products, and equipment provided under the Contract Documents, Contractor provides and extends to Owner all statutory, common law, and standard industry warranties as well as those warranties set forth in Owner's Contract Documents. Unless a longer period is specified by Owner's Contract Documents or otherwise, Contractor, at a minimum and in addition to all other warranties, warrants all Work under the Contract Documents for at least one year. Specifically, and without limitation, Contractor will promptly correct at its own expense:
- a. any portion of the Work which
    - 1) fails to conform to the requirements of the Contract Documents, or
    - 2) is rejected by the Owner as defective or because it is damaged or rendered unsuitable during installation or resulting from failure to exercise proper protection.
  - b. any defects due to faulty materials, equipment, or workmanship which appear within a period of one year from the date of completion of the Work or within such longer period of time as may be prescribed by law or the terms of any applicable special warranty required by the Contract Documents.
8. **Time of Completion.** Contractor will complete the Work and have it ready for Owner's inspection within \_\_\_\_\_ (\_\_\_\_\_) calendar days from Notice to Proceed issued by Owner. Time is of the essence. If Contractor is delayed at any time in the progress of the Work by any act or neglect of Owner, or by changes in the Work, or by strikes, lockouts, unusual delay in transportation, unavoidable casualties, or acts of nature beyond Contractor's control, then the time for completion will be extended by the time that completion of the Work is delayed. However, Contractor expressly waives any damages for any such delays.
9. **Owner Provided Items.** Owner may provide furnishings, equipment, and/or other items for the Project. Contractor will install items furnished by Owner and/or receive, store, and protect such items on site until the date Owner accepts the Project.
10. **Product Requirements.** Contractor will provide products that comply with Contract Documents, are undamaged, and, unless otherwise indicated, are new and unused at time of installation. Contractor will provide products complete with accessories, trim, finish, safety guards, and other devices and details needed for complete installation and for intended use and effect.
11. **Permits, Surveys, and Taxes.** Contractor will obtain and pay for all permits and licenses, and also pay any applicable taxes. Contractor will also obtain and pay for any surveys it needs to perform the Work.
12. **Independent Contractor Relationship.** Contractor is not an agent or employee of Owner but is an independent contractor.
13. **Comply with Laws.** Contractor will comply, and ensure that all subcontractors comply, with all applicable laws, ordinances, rules, regulations, covenants, and restrictions.
14. **Indemnity and Hold Harmless.**
- a. Contractor will indemnify and hold harmless Owner and Owner's representatives, employees, agents, architects, and consultants from and against any and all claims, liens, damages, liability, demands, costs, judgments, awards, settlements, causes of action, losses and expenses (collectively "Claims" or "Claim"), including but not limited to attorney fees, consultant fees, expert fees, copy costs, and other expenses, arising out of or resulting from performance of or failure to perform the Work, attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of real or personal property, including loss of use resulting therefrom, except to the extent that such liability arises out of the negligence of Owner, its

representatives, agents, and employees. This indemnity includes, without limitation, indemnification of Owner from all losses or injury to Owner's property, except to the extent that such loss or injury arises out of the negligence of Owner, its representatives, agents, and employees. This indemnity applies, without limitation, to include Claims occurring both during performance of the Work and/or subsequent to completion of the Work. In the event that any Claim is caused in part by a party indemnified hereunder, that party will bear the cost of such Claim to the extent it was the cause thereof. In the event that a claimant asserts a Claim for recovery against any party indemnified hereunder, the party indemnified hereunder may tender the defense of such Claim to Contractor. If Contractor rejects such tender of defense and it is later determined that the negligence of the party indemnified hereunder did not cause all of the Claim, Contractor will reimburse the party indemnified hereunder for all costs and expenses incurred by that party in defending against the Claim. Contractor will not be liable hereunder to indemnify any party for damages resulting from the sole negligence of that party.

- b. In addition to the foregoing, Contractor will be liable to defend Owner in any lawsuit filed by any Subcontractor relating to the Project. Where liens have been filed against Owner's property, Contractor (and/or its bonding company which has issued bonds for the Project) will obtain lien releases and record them in the appropriate county and/or local jurisdiction and provide Owner with a title free and clear from any liens of Subcontractors. In the event that Contractor and/or its bonding company are unable to obtain a lien release, Owner in its absolute discretion may require Contractor to provide a bond around the lien or a bond to discharge the lien, at Contractor's sole expense.
- c. In addition to the foregoing, Contractor will indemnify and hold Owner harmless from any claim of any other contractor resulting from the performance, nonperformance or delay in performance of the Work by Contractor.
- d. The indemnification obligation herein will not be limited by a limitation on the amount or type of damages, compensation or benefits payable by or for Contractor or a Subcontractor under workers compensation acts, disability benefit acts, or other employee benefit acts.

15. **Work Restrictions.** Contractor will ensure that Contractor, its agents, employees, and subcontractors:

- a. Do not use or consume alcohol, or cannabis, or illegally use drugs, on the Project Site or enter on or perform any Work on the Project Site while under their influence.
- b. Do not smoke or vape anything on the Project Site. Do not use tobacco in any form on the Project Site.
- c. Do not perform Work on the Project Site on Sundays except for emergency work.
- d. Refrain from using profanity or being discourteous or uncivil to others on the Project Site or while performing Work under this Agreement.
- e. Do not view or allow pornographic or other indecent materials on the Project Site.
- f. Do not play obnoxious and/or loud music on the Project Site. Do not play any music within existing facilities.
- g. Refrain from wearing immodest, offensive, or obnoxious clothing, while on the Project Site.
- h. Do not bring weapons on the Project Site.

16. **Safety Hazards.** Contractor will ensure that no work or services will be performed that may pose an undue safety hazard to Contractor, Contractor's employees, or any other person.

17. **Contractor's Insurance.** Prior to performing any work, Contractor will obtain and maintain during the term of this Agreement the following insurance:

- a. Workers Compensation Insurance or evidence of exemption.
- b. Employers Liability Insurance with minimum limits of the greater of \$500,000 E.L. each accident, \$500,000 E. L. disease-each employee, \$500,000 E.L. disease-policy limit or as required by the law of the state in which the Project is located.
- c. Commercial General Liability Insurance – ISO Form CG 00 01 (12/07) or equivalent Occurrence policy which will provide primary coverage to the additional insureds (the Owner and the Architect) in the event of any Occurrence, Claim, or Suit with:
  - 1) Limits of the greater of: Contractor's actual coverage amounts or the following:
    - a) \$2,000,000 General Aggregate;
    - b) \$2,000,000 Products - Comp/Ops Aggregate;
    - c) \$1,000,000 Personal and Advertising Liability;
    - d) \$1,000,000 Each Occurrence; and

- e) \$50,000 Fire Damage to Rented Premises (Each Occurrence)
- 2) Endorsements attached to the General Liability policy including the following or their equivalent:
  - a) ISO Form CG-25-03 (05/09), Amendment of Limits of Insurance (Designated Project or Premises) describing the Agreement and specifying limits as shown above.
  - b) ISO Form CG 20 10 (07/04), Additional Insured – Owners, Lessees, Or Contractors (Form B), naming Owner and Architect as additional insureds.
- d. Automobile Liability Insurance, with:
  - 1) Combined Single Limit each accident in the amount of no less than \$500,000; and
  - 2) Coverage applying to "Any Auto" or its equivalent.

Contractor will provide evidence of these insurance coverages to Owner by providing an ACORD 25 (2010/05) Form or its equivalent: (1) listing Owner as the Certificate Holder and Additional Insured on the general liability and any excess liability policies, (2) listing the insurance companies providing coverage (all companies listed must be rated in A.M. Best Company Key Rating Guide-Property-Casualty and each company must have a rating of B+ Class VII or higher), (3) attaching the endorsements set forth above for the Certificate of Liability Insurance, and (4) bearing the name, address and telephone number of the producer and signed by an authorized representative of the producer. (The signature may be original, stamped, or electronic.) Notwithstanding the foregoing, Owner may, in writing and at its sole discretion, modify these insurance requirements.

18. **Resolution of Disputes.** In the event there is any dispute arising under the Contract Documents which cannot be resolved by agreement between the parties, either party may submit the dispute with all documentation upon which it relies to Director of Architecture, Engineering, and Construction, 50 East North Temple, Salt Lake City, Utah 84150, who will convene a dispute resolution conference within thirty (30) days. The dispute resolution conference will constitute settlement negotiations and any settlement proposal made pursuant to the conference will not be admissible as evidence of liability. In the event that the parties do not resolve their dispute pursuant to the dispute resolution conference, either party may commence legal action to resolve the dispute. Any such action must be commenced within six (6) months from the first day of the dispute resolution conference or be time barred. Submission of the dispute to the Director as outlined above is a condition precedent to the right to commence legal action to resolve any dispute. In the event that either party commences legal action to adjudicate any dispute without first submitting the dispute to the Director, the other party will be entitled to obtain an order dismissing the litigation without prejudice and awarding such other party any costs and attorney fees incurred by that party in obtaining the dismissal, including without limitation copy costs, and expert and consultant fees and expenses. Pending final resolution of a dispute hereunder, Contractor will proceed diligently with the performance of its obligations pursuant to this Agreement.
19. **Termination by Contractor.** In the event Owner materially breaches any term of the Contract Documents, Contractor will promptly give Written Notice of the breach to Owner. If Owner fails to cure the breach within ten (10) days of the Written Notice, Contractor may terminate this Agreement by giving Written Notice to Owner and recover from Owner the percentage of the Contract Sum represented by the Work completed on the Project site as of the date of termination together with any out of pocket loss Contractor has sustained with respect to materials and equipment as a result of the termination prior to completion of the Work, less any offsets. Contractor will not be entitled to unearned profits or any other compensation or damages as a result of the termination and hereby waives any claim therefor. Contractor will provide to Owner all warranty, as built, inspection, and other close out documents as well as materials that Contractor has in its possession or control at the time of termination. Without limitation, Contractor's indemnities and obligations as well as all warranties relative to Work provided through the date of termination survive a termination hereunder.
20. **Termination by Owner for Cause.** Should Contractor fail to timely provide Owner with the certificates of insurance, make a general assignment for the benefit of its creditors, fail to apply enough properly skilled workmen or specified materials to properly prosecute the Work in accordance with Contractor's schedule, or otherwise materially breach any provision of the Contract Documents, then Owner may, without any prejudice to any other right or remedy, give Contractor Written Notice thereof. If Contractor fails to cure its default within ten (10) days, Owner may terminate this Agreement by giving Written Notice to Contractor. In such case, Owner may, in Owner's sole discretion, take legal assignment of subcontracts and other contractual

rights of Contractor and/or take possession of the premises and all materials, tools, equipment, and appliances thereon, and finish the Work by whatever method Owner deems expedient. Contractor will not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the Contract Sum exceeds the expense of finishing the Work, including compensation for additional administrative, architectural, consultant, and legal services (including without limitation attorney fees, expert fees, copy costs, and other expenses), such excess will be paid to Contractor, less any offsets. If such expense exceeds the unpaid balance, Contractor will pay the difference to Owner. Contractor will provide to Owner all warranty, as built, inspection, and other close out documents as well as materials that Contractor has in its possession or control at the time of termination. Without limitation, Contractor's indemnities and obligations as well as all warranties relative to Work provided through the date of termination survive a termination hereunder.

21. **Termination by Owner for Convenience.** Notwithstanding any other provision contained in the Contract Documents, Owner may, without cause and in its absolute discretion, terminate this Agreement at any time. In the event of such termination, Contractor will be entitled to recover from Owner the percentage of the Contract Sum equal to the percentage of the Work which Owner and/or its architect determines has been completed on the Project site as of the date of termination together with any out of pocket loss Contractor has sustained with respect to materials and equipment as a result of the termination prior to completion of the Work, less any offsets. Contractor will not be entitled to unearned profits or any other compensation as a result of the termination and hereby waives any claim therefor. Contractor will provide to Owner all warranty, as built, inspection, and other close out documents as well as materials that Contractor has in its possession or control at the time of termination. Owner may, in Owner's sole discretion, take legal assignment of subcontracts and other contractual rights of Contractor. Without limitation, Contractor's indemnities and obligations as well as all warranties relative to Work provided through the date of termination survive a termination hereunder.
22. **Enforcement.** In the event either party commences legal action to enforce or rescind any term of this Agreement, the prevailing party will be entitled to recover its attorney fees, costs and legal expenses, including without limitation all copy costs and expert and consultant fees and expenses, incurred in that action and on all appeals, from the other party.
23. **Ownership of Materials, Products, and Intellectual Property Rights.** Owner will retain ownership and intellectual property rights in all plans, designs, drawings, documents, concepts, and materials provided by or on behalf of Owner to Contractor and to all work products of Contractor and its subcontractors for products, services, and Work provided under this Agreement, such products, services, and Work of Contractor and its subcontractors constituting works made for hire. Neither Contractor nor its subcontractors will reuse any portion of such items provided by Owner or work products developed by Contractor or its subcontractors for Owner pursuant to this Agreement or disclose any such items to any third party without the prior written consent of Owner. Owner may withhold its consent in its absolute discretion. Contractor shall obtain the written agreement of each of its subcontractors to the terms of this section prior to permitting the subcontractor to perform any services contemplated by this Agreement.
24. **Comply with Intellectual Property Rights of Others.** Contractor represents and warrants that no Work or services (with its means, methods, goods, and services attendant thereto), provided to Owner will infringe or violate any right of any third party and that Owner may use and exploit such Work, means, methods, goods, and services without liability or obligation to any person or entity (specifically and without limitation, such Work, means, methods, goods, and services will not violate rights under any patent, copyright, trademark, or other intellectual property right or application for the same).
25. **Ownership and Use of Renderings and Photographs.** Renderings, photographs, and/or other images of or representing the services, Work, or any improvement on or relative to the Project Site, whether created before, during, or at completion of construction (and whether created by Owner, Contractor, or Contractor's subcontractors), are the property of the Owner. Contractor hereby transfers and assigns to Owner all ownership and intellectual property rights that Contractor and/or its subcontractors may have in and to all such renderings, photographs, and other images. The Owner reserves all rights including copyrights and other intellectual property rights to such renderings, photographs, and other images. No such renderings, photographs, or other images shall be used or distributed without written consent of the Owner.



26. **Public Statements.** Contractor will not make any statements or provide any information to the media about the Project or Work without the prior written consent of Owner. If Contractor receives any requests for information from media, Contractor will refer such requests to Owner.
27. **Confidentiality.** Contractor shall ensure that Contractor and its subcontractors, and the employees, agents and representatives of Contractor and its subcontractors, maintain in strict confidence, and shall use and disclose only as authorized by Owner all Confidential Information of Owner that Contractor receives in connection with the performance of this Agreement. Notwithstanding the foregoing, Contractor may use and disclose any information to the extent required by an order of any court or governmental authority, but only after it has notified Owner and Owner has had an opportunity to obtain reasonable protection for such information in connection with such disclosure. For purposes of this Agreement, "Confidential Information" means:
- The name or address of any affiliate, customer or contractor of Owner or any information concerning the transactions of any such person with Owner;
  - Any contracts, agreements, business plans, budgets or other financial information, renderings, photographs, and materials provided by Owner, relating to the Work or any improvement on the Project Site to the extent such has not been made available to the public by the Owner;
  - Any other information that is marked or noted as confidential at the time of its disclosure.
28. **No Commercial Use of Transaction or Relationship.** Without the prior written consent of Owner, which Owner may grant or withhold in its sole discretion, neither Contractor nor Contractor's affiliates, officers, directors, agents, representatives, shareholders, members, subcontractors, or employees shall make any private commercial use of their relationship to Owner or the Project, including, without limitation:
- By referring to the Owner or Project verbally or in any sales, marketing or other literature, letters, client lists, press releases, brochures or other written materials except as may be necessary for Contractor to perform Contractor's obligations under the terms of this Agreement;
  - By using or allowing the use of any photographs of the Work or Project or any part thereof, or of any service mark, trademarks or trade names or other intellectual property now or which may hereafter be associated with, owned by or licensed by Owner, in connection with any work, service or product; or
  - By contracting with or receiving money or anything of value from any person or commercial entity to facilitate such person or entity obtaining any type of commercial identification, advertising or visibility in connection with the Owner or Project.
- Notwithstanding the foregoing, Contractor may include a reference to Owner or the Project in a professional résumé or other similar listing of Contractor's references without seeking Owner's written consent in each instance, provided that such reference to Owner or the Project is included with at least several other similar references to projects of different owners and is given no more prominence than such other references.
29. **Entire Agreement.** This Agreement contains the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral, relating to the Project. This Agreement may be amended only by a writing signed by both parties. This Agreement will not be construed to create a contractual relationship of any kind between any persons or entities other than Owner and Contractor.
30. **Assignment.** Contractor will not assign any right or obligation hereunder without the prior written consent of the Owner, which consent may be granted or withheld in Owner's absolute discretion.
31. **Governing Law.** The parties acknowledge that the Contract Documents have substantial connections to the State of Utah. The Contract Documents will be deemed to have been made, executed, and delivered in Salt Lake City, Utah. To the maximum extent permitted by law, (i) the Contract Documents and all matters related to their creation and performance will be governed by and enforced in accordance with the laws of the State of Utah, excluding conflicts of law rules, and (ii) all disputes arising from or related to the Contract Documents will be decided only in a state or federal court located in Salt Lake City, Utah and not in any other court or state. Toward that end, the parties hereby consent to the jurisdiction of the state and federal courts located in Salt Lake City, Utah and waive any other *venue* to which they might be entitled by virtue of domicile, habitual residence, place of business, or otherwise.

32. **Effective Date.** The effective date of this Agreement is the date indicated by Owner's signature.

**OWNER:**

The Church of Jesus Christ of Latter-day Saints,  
a Utah corporation sole

**CONTRACTOR:**

Signature:

Signature:

Print Name:

Print Name:

Title:

Title:

Address:

Address:

Telephone No:

Telephone No:

Facsimile No:

Facsimile No:

Email:

Email:

Effective Date:

Fed. I.D. or SSN:

License No:

Reviewed By:

Date Signed:

**FORM OF AGREEMENT**

## SUBCONTRACTORS AND MAJOR MATERIALS SUPPLIERS LIST

Project Name: Logan YSA Corridor Finishes Date: \_\_\_\_\_

Stake: Logan Utah YSA 4<sup>th</sup> Stake Project No: 2404

General Contractor: \_\_\_\_\_

General Contractor is to provide the names of the following subcontractors and suppliers to the Owner's Project Manager immediately following the bid opening:

### SUBCONTRACTORS AND SUPPLIERS

Drywall \_\_\_\_\_

Painting \_\_\_\_\_

Wall Coverings \_\_\_\_\_

Tile \_\_\_\_\_

Electrical \_\_\_\_\_

# SUPPLEMENTARY CONDITIONS - FOR SMALL PROJECT AGREEMENT BETWEEN OWNER AND CONTRACTOR (U.S.)

## **ITEM 1 - GENERAL**

1. Conditions of the Small Project Agreement Between Owner and Contractor (U.S.) apply to each Division of the Specifications.
2. Provisions contained in Division 01 apply to all Divisions of the Specifications.

## **ITEM 2 - LIQUIDATED DAMAGES PAYABLE TO OWNER**

*This section may be included as a separate additional paragraph to the Small Project Agreement Between Owner and Contractor (U.S.), at Owner's discretion:*

**Delay in Completion of the Work.** For each day after the expiration of the designated Time of Completion that Contractor has not completed the Work, Contractor will pay Owner the amount of One Hundred Fifty dollars (\$150) per day as liquidated damages for Owner's loss of use and the added administrative expense to Owner to administer the Project during the period of delay. In addition, Contractor will reimburse Owner for any additional Architect's fees, attorneys' fees, expert fees, consultant fees, copy costs, and other expenses incurred by Owner as a result of the delay. Owner may deduct any liquidated damages or reimbursable expenses from any money due or to become due to Contractor. If the amount of liquidated damages and reimbursable expenses exceeds any amounts due to Contractor, Contractor will pay the difference to Owner within ten (10) days after receipt of a written request from Owner for payment.

## **ITEM 3 - STATE SPECIFIC SUPPLEMENTARY CONDITIONS**

### **Utah**

#### **UTAH STATE SALES TAX:**

*Add the following to the Small Project Agreement Between Owner and Contractor (U.S.):*

1. Contractors should be exempt on purchases of material installed or converted into real property to be used by the Owner. The Contractor will furnish each vendor with a completed Exemption Certificate Form TC-721. The certificate will be prepared by the Contractor for each vendor in order to obtain the exemption.
2. The Owner's tax exempt number is 11871701-002-STC.

#### **UTAH NOTICE OF INTENT TO OBTAIN FINAL COMPLETION:**

*Add the following to the Small Project Agreement Between Owner and Contractor (U.S.):*

- A. Contractor shall file with the State Construction Registry, on its own behalf and/or on behalf of Owner, a notice of intent to obtain final completion at least 45 days before the day on which the Owner or Contractor files or could file a notice of completion under Utah Code Ann. Section 38-1a-506 if:
  1. The completion of performance time under the original contract for construction work is greater than 120 days;
  2. The total original construction contract price exceeds \$500,000; and
  3. The original contractor or owner has not obtained a payment bond in accordance with Utah Code Ann. Section 14-2-1.

#### **UTAH NOTICE OF COMPLETION:**

*Add the following to the Small Project Agreement Between Owner and Contractor (U.S.):*

- A. Within five (5) calendar days of final completion of the Project and in compliance with Section 38-1a-507 Utah Code Annotated, Contractor shall file with the State Construction Registry, and copy to Owner, a notice of completion which shall include, without limitation, the following:
  1. The name, address, telephone number, and email address of the person filing the notice of completion;



2. The name of the county in which the Project and/or Project site is located;
  3. The date on which final completion is alleged to have occurred;
  4. The method used to determine final completion; and
  5. One of the following:
    - a. The tax parcel identification number of each parcel included in the Project and/or Project site;
    - b. The entry number of a preliminary notice on the same project that includes the tax parcel identification number of each parcel included in the Project and/or Project site; or
    - c. The entry number of the building permit issued for the Project.
- B. Notwithstanding any other provision of the Contract Documents to the contrary, Contractor and Owner agree that any breach or failure to comply with this Section by the Contractor will constitute a breach of contract and the Contractor will be liable for any direct, indirect, or consequential damages to the Owner flowing from this breach.

**UTAH STATE PROGRESS PAYMENTS AND FINAL PAYMENT:**

*Replace paragraph 5 of the Small Project Agreement Between Owner and Contractor (U.S.) with the following:*

**5. Payment**

- a. If the Contractor's Bid Proposal Amount is over \$100,000, Contractor will submit to Owner a schedule of values which allocates the Contractor's Bid Proposal Amount to various portions of the Work. This schedule, when accepted by Owner, will be used as a basis for reviewing Contractor's payment requests.
- b. Progress Payments: Not more than once each month, Contractor will submit a payment request to Owner. Owner will pay Contractor progress payments for work completed within fifteen (15) days after Owner receives:
  1. Contractor's progress payment request for work to date;
  2. A certification by Contractor that Contractor has paid for all labor, materials, and equipment relating to the Work covered by prior payment requests and that Contractor will pay for all labor, materials, and equipment relating to the Work covered by the current payment request; and
  3. Conditional Waiver and Release Upon Progress Payment documents submitted by Contractor (in content complying with Utah Code § 38-1a-802) executed by each of the subcontractors performing work and/or providing materials covered by the Contractor's progress payment request.
- c. Final Payment: Owner will make full and final payment of the Contract Sum due within thirty (30) days of the completion of all of the following requirements:
  1. Contractor has submitted its final payment request;
  2. Contractor has submitted a certification that Contractor has paid for all labor, materials, and equipment relating to the Work covered by prior payment requests and that Contractor will pay for all labor, materials, and equipment relating to the Work covered by the final payment request; and
  3. Contractor has submitted Waiver and Release Upon Final Payment documents (in content complying with Utah Code § 38-1a-802) executed by each of the subcontractors performing work and/or providing materials covered by the Contractor's final payment request.

Acceptance of final payment by Contractor or any Subcontractor will constitute a waiver of claims by the payee except for those claims previously made to Owner in writing and identified by Contractor in its affidavit as still pending. If the aggregate of previous payments made by Owner exceeds the amount due Contractor, Contractor will reimburse the difference to Owner.
- d. Owner may modify or reject any payment request if, in Owner's opinion, the Work for which payment is requested is not acceptable or is less complete than represented on the payment request.
- e. Upon receipt of any payment from Owner, Contractor will pay to each Subcontractor the amount paid to Contractor on account of such Subcontractor's portion of the Work.
- f. Contractor will maintain a copy of each payment request at the Project site for review by the Subcontractors.
- g. No payment made, either in whole or in part, by Owner will be construed to be an acceptance of defective or improper materials or workmanship.

**END OF DOCUMENT**



## LOGAN YSA CORRIDOR FINISHES

### **DIVISION 06 - WOOD AND PLASTICS**

06 2001	Common Finish Carpentry Requirements
06 2210	Miscellaneous Wood Trim
06 4001	Common Architectural Woodwork Requirements
06 4512	Architectural Woodwork Wood Trim

## SECTION 06 2001 - COMMON FINISH CARPENTRY REQUIREMENTS

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Includes But Not Limited To:
  - 1. Furnish and install sealants required for items installed under this Section, as described in Contract Documents.
- B. Products Installed But Not Furnished Under This Section:
  - 1. Chair Rails.
  - 2. Miscellaneous Wood Trim.
  - 3. Miscellaneous as specified elsewhere.
- C. Related Requirements:
  - 1. Section 06 1100: 'Wood Framing' for furring and blocking.
  - 2. Section 06 2210: 'Miscellaneous Wood Trim'.
    - a. Wood Trim.
  - 3. Sections under 06 4000 Heading: Furnishing of Architectural Woodwork.
    - a. Section 06 4001: 'Common Architectural Woodwork Requirements':
      - 1) Quality of wood materials to be used in Finish Carpentry.
    - b. Section 06 4512: 'Architectural Woodwork Wood Trim'.
  - 4. Section 07 9213: 'Elastomeric Joint Sealants' for quality of sealants, submittal and installation requirements.

#### 1.2 REFERENCES

- A. Association Publications:
  - 1. Architectural Woodwork Institute / Architectural Woodwork Manufacturers Association of Canada / Woodwork Institute, 46179 Westlake Drive, Suite 120, Potomac Falls, VA [www.awinet.org](http://www.awinet.org).
    - a. Architectural Woodwork Standards (AWS), 2nd Edition, 2014.
- B. Definitions:
  - 1. Grade: Unless otherwise noted, this term means Grade rules for Economy, Custom, and/or Premium Grade:
    - a. Economy Grade: The lowest acceptable grade in both material and workmanship requirements, and is for work where price outweighs quality considerations.
    - b. Custom Grade: Typically specified for and adequately covers most high-quality architectural woodwork, providing a well-defined degree of control over a project's quality of materials, workmanship, or installation.
    - c. Premium Grade: The highest Grade available in both material and workmanship where the highest level of quality, materials, workmanship, and installation is required.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- A. Glue: Waterproof and of best quality.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Verification Of Conditions:
  - 1. Verify walls, ceilings, floors, and openings are plumb, straight, in-line, and square before installing Architectural Woodwork.
  - 2. Report conditions that are not in compliance to Architect before starting installation.

### **3.2 PREPARATION**

- A. Surface Preparation:
  - 1. Install Architectural Woodwork after wall and ceiling painting is completed in areas where Architectural Woodwork is to be installed.

### **3.3 INSTALLATION**

- A. Special Techniques:
  - 1. AWS Custom Grade is minimum acceptable standard, except where explicitly specified otherwise, for installation of architectural woodwork.
- B. General Architectural Woodwork Installation:
  - 1. Fabricate work in accordance with measurements taken on Project site.
  - 2. Scribe, miter, and join accurately and neatly to conform to details.
  - 3. Exposed surfaces shall be machine sanded, ready for finishing.
  - 4. Allow for free movement of panels.
  - 5. Countersink nails. Countersink screws and plug those exposed to view.

## **END OF SECTION**

## SECTION 06 2210 - MISCELLANEOUS WOOD TRIM

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Includes But Not Limited To:
  - 1. Furnish and install wood trim not specified elsewhere as described in Contract Documents.
  - 2. Section 06 4512: 'Architectural Woodwork Wood Trim'.
  - 3. Section 09 9324: 'Interior Clear-Finished Hardwood'.

#### 1.2 REFERENCES

- A. Association Publications:
  - 1. Architectural Woodwork Institute / Architectural Woodwork Manufacturers Association of Canada / Woodwork Institute, 46179 Westlake Drive, Suite 120, Potomac Falls, VA [www.awinet.org](http://www.awinet.org).
    - a. Architectural Woodwork Standards (AWS), 2nd Edition, 2014.
- B. Definitions:
  - 1. Grade: Unless otherwise noted, this term means Grade rules for Economy, Custom, and/or Premium Grade:
    - a. Custom Grade: Typically specified for and adequately covers most high-quality architectural woodwork, providing a well-defined degree of control over a project's quality of materials, workmanship, or installation.
  - 2. Plain-Sawn: A hardwood figure developed by sawing a log lengthwise at a tangent to the annual growth rings. It appears as U-shaped or straight markings in the board's face.

#### 1.3 SUBMITTALS

- A. Action Submittals:
  - 1. Samples:
    - a. Interior Hardwood for Transparent Finish:
      - 1) Before performing work of this Section, prepare Control Sample, to match sample available from Owner, to be used as finishing standard for interior clear finished hardwood as specified in Section 09 9324.
      - 2) Design Criteria:
        - a) Provide 8 inch by 10 inch samples of Red Oak and Birch to match Owner provided stain color selected for Project (Some existing chair rail is Birch).
        - b) Control Sample will be used as performance standard for evaluating finish provided.
- B. Informational Submittals:
  - 1. Source Quality Control Submittals:
    - a. Samples:

- 1) Interior Hardwood for Transparent Finish:
  - a) Owner will provide Control Sample for finish.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

#### A. Design Criteria:

##### 1. General:

- a. Meet requirements of Section 06 4001 for general standards for materials and fabrication of Architectural Woodwork.

##### 2. Clear Finished Hardwood:

- a. Match materials specified in Section 06 4512.
- b. Match finish specified in Section 06 4512 and match Owner selected sample as specified in Section 09 9324.

### **2.2 SOURCE QUALITY CONTROL**

#### A. Inspections:

##### 1. Clear Finished Hardwood:

- a. Color matches Owner provided sample specified in Section 09 9324.

## **PART 3 - EXECUTION: Not Used**

## **END OF SECTION**

## SECTION 06 4001 - COMMON ARCHITECTURAL WOODWORK REQUIREMENTS

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Includes But Not Limited To:
  - 1. General standards for materials and fabrication of Architectural Woodwork and for hardware associated with Architectural Woodwork.
- B. Related Requirements:
  - 1. Section 06 1100: 'Wood Framing' for furring and blocking.
  - 2. Section 06 2001: 'Common Finish Carpentry Requirements' for Installation.
  - 3. Section 06 2210: 'Miscellaneous Wood Trim'.
  - 4. Section 06 4512: 'Architectural Woodwork Wood Trim'.
  - 5. Section 09 9324: 'Interior Clear-Finished Hardwood' for filling of nail holes and finishing.

#### 1.2 REFERENCES

- A. Association Publications:
  - 1. Architectural Woodwork Institute / Architectural Woodwork Manufacturers Association of Canada / Woodwork Institute, 46179 Westlake Drive, Suite 120, Potomac Falls, VA [www.awinet.org](http://www.awinet.org).
    - a. Architectural Woodwork Standards (AWS), 2nd Edition, 2014.
- B. Definitions:
  - 1. Grade: Unless otherwise noted, this term means Grade rules for Economy, Custom, and/or Premium Grade:
    - a. Custom Grade: Typically specified for and adequately covers most high-quality architectural woodwork, providing a well-defined degree of control over a project's quality of materials, workmanship, or installation.

#### 1.3 QUALITY ASSURANCE

- A. Qualifications: Requirements of Section 01 4301 applies, but not limited to following:
  - 1. Fabricator:
    - a. Fabricator Firm specializing in performing work of this section.
      - 1) Firm experience in supplying products indicated for this Project.
      - 2) Firm with sufficient production capacity to produce required units.
      - 3) Firm will comply with specifications and Contract Documents for this Project.
      - 4) Minimum five (5) years experience in Woodwork installations.
      - 5) Minimum five (5) satisfactorily completed installations in past three (3) years of projects similar in size, scope, and installation procedures required for this project before bidding.
    - b. Upon request by Architect or Owner, submit documentation.

## 1.4 DELIVERY, HANDLING, AND STORAGE

- A. Delivery And Acceptance Requirements:
  - 1. Protect architectural woodwork from moisture and damage while in transit to job site.
  - 2. Report damaged materials received within two (2) days from delivery at project site.
- B. Storage And Handling Requirements:
  - 1. Unload and store in place where it will be protected from moisture and damage and convenient to use.

## PART 2 - PRODUCTS

### 2.1 FABRICATORS

- A. Approved Fabricators. See Section 01 4301:
  - 1. Meet Quality Assurance Fabricator Qualifications as specified in Part 1 of this specification.

### 2.2 ASSEMBLIES

- A. Design Criteria:
  - 1. General:
    - a. AWS Custom Grade is minimum acceptable standard, except where explicitly specified otherwise, for materials, construction, and installation of architectural woodwork.
  - 2. Materials:
    - a. Lumber:
      - 1) Grade:
        - a) No defects in boards smaller than 600 sq in.
        - b) One defect per additional 150 sq inches in larger boards.
        - c) Select pieces for uniformity of grain and color on exposed faces and edges.
        - d) No mineral grains accepted.
      - 2) Allowable Defects:
        - a) Tight knots not exceeding 1/8 inch in diameter. No loose knots permitted.
        - b) Patches (dutchmen) not apparent after finishing when viewed beyond 18 inches.
        - c) Checks or splits not exceeding 1/32 inch by 3 inches and not visible after finishing when viewed beyond 18 inches.
        - d) Stains, pitch pockets, streaks, worm holes, and other defects not mentioned are not permitted.
        - e) Normal grain variations, such as cats eye, bird's eye, burl, curl, and cross grain are not considered defects.
      - 3) Use maximum lengths possible, but not required to exceed 10 feet without joints. No joints shall occur closer than 72 inches in straight runs exceeding 18 feet. Runs between 18 feet and 10 feet may have no more than one joint. No joints shall occur within 72 inches of outside corners nor within 18 inches of inside corners.



- 4) Moisture content shall be six (6) percent maximum at fabrication. No opening of joints due to shrinkage is acceptable.

B. Fabrication:

1. Follow Architectural Woodwork Standards (AWS) for fabrication of Architectural Woodwork.
2. Tolerances:
  - a. No planer marks (KCPI) allowed. Sand wood members and surfaces with 100 grit or finer.
  - b. Maximum Gap: None allowed.
  - c. Flushness Variation: 0.015 inch maximum.
  - d. Sanding Cross Scratches: 1/4 inch maximum.
  - e. Plug screw holes. Screw locations not to be visible beyond 18 inches.
3. Fabricate work in accordance with measurements taken on job site.
4. 'Ease' sharp corners and edges of exposed members to promote finishing and protect users from splinters. Radius of 'easing' shall be uniform throughout Project and between 1/32 and 1/16 of an inch.
5. Fabricate so veneer grain is vertical.
6. Joints:
  - a. Use lumber pieces with similar grain pattern when joining end to end.
  - b. Compatibility of grain and color from lumber to panel products is required.
7. Install hardware in accordance with Manufacturer's directions. Leave operating hardware operating smoothly and quietly.
8. Remove or repair damaged surface or defects in exposed finished surfaces of architectural woodwork to match adjacent similar undamaged surface.

**PART 3 - EXECUTION: Not Used**

**END OF SECTION**

## SECTION 06 4512 - ARCHITECTURAL WOODWORK WOOD TRIM

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Products Furnished But Not Installed Under This Section:
  - 1. Chair rails.
- B. Related Requirements:
  - 1. Section 06 1100: 'Wood Framing' for wall blocking required for Wood Trim.
  - 2. Section 06 2001: 'Common Finish Carpentry Requirements':
    - a. Installation of Wood Trim.
  - 3. Section 06 2210: Remaining Wood Trim.
  - 4. Section 06 4001: 'Common Architectural Woodwork Requirements':
    - a. General standards for materials and fabrication of Architectural Woodwork.
  - 5. Section 09 9324: 'Interior Clear-Finished Hardwood'.

#### 1.2 REFERENCES

- A. Association Publications:
  - 1. Architectural Woodwork Institute / Architectural Woodwork Manufacturers Association of Canada / Woodwork Institute, 46179 Westlake Drive, Suite 120, Potomac Falls, VA [www.awinet.org](http://www.awinet.org).
    - a. Architectural Woodwork Standards (AWS), 2nd Edition, 2014.
- B. Definitions:
  - 1. Grade: Unless otherwise noted, this term means Grade rules for Economy, Custom, and/or Premium Grade.
    - a. Custom Grade: Typically specified for and adequately covers most high-quality architectural woodwork, providing a well-defined degree of control over a project's quality of materials, workmanship, or installation.
  - 2. Plain-Sawn: A hardwood figure developed by sawing a log lengthwise at a tangent to the annual growth rings. It appears as U-shaped or straight markings in the board's face.
  - 3. Running Trim: Generally combined in the term "standing and running trim" and refers to random, longer length trims delivered to the jobsite (e.g., baseboard, chair rail, crown molding).

#### 1.3 SUBMITTALS

- A. Action Submittals:
  - 1. Shop Drawings:
    - a. Include materials used, standing and running trim profiles, joint details, and hardware.

2. Samples:
  - a. Interior Hardwood for Transparent Finish:
    - 1) Before performing work of this Section, prepare Control Sample, to match sample available from Owner, to be used as finishing standard for interior clear finished hardwood as specified in Section 09 9324.
    - 2) Design Criteria:
      - a) Provide 8 inch by 10 inch sample of Red Oak and Birch to match Owner provided stain color selected for Project (Some existing chair rail is Birch).
      - b) Control Sample will be used as performance standard for evaluating finish provided.
- B. Informational Submittals:
  1. Source Quality Control Submittals:
    - a. Samples:
      - 1) Interior Hardwood for Transparent Finish:
        - a) Owner will provide Control Sample from project for finish.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- A. Performance / Design Criteria: Conform to requirements of Section 06 4001 'Common Architectural Woodwork Requirements'.
  1. Glue: Waterproof and of best quality.
  2. Factory-finish to match Owner selected sample as specified in Section 09 9324.
- B. Architectural Woodwork Wood Trim:
  1. Interior Hardwood For Transparent Finish:
    - a. Design Criteria:
      - 1) Solid wood shall be plain sawn Birch or Red Oak, as required by location to match existing woodwork.
      - 2) Finish to match Owner selected sample as specified in Section 09 9324.
    - b. Match existing Project Color Scheme:
      - 1) Control Sample provided by Owner:
      - 2) Control Sample will be existing wood item from Project.

### **2.2 SOURCE QUALITY CONTROL**

- A. Inspections:
  1. Clear Finished Hardwood:
    - a. Color matches Owner provided sample specified in Section 09 9324.

**PART 3 - EXECUTION Not Used**

**END OF SECTION**



## LOGAN YSA CORRIDOR FINISHES

### DIVISION 08 - OPENINGS:

- 08 7101 Common Finish Hardware Requirements
- 08 7108 Stops and Holders

## SECTION 08 7101 – COMMON FINISH HARDWARE REQUIREMENTS

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Includes But Not Limited To:
  - 1. General requirements for finish hardware related to architectural wood doors.
- B. Related Requirements:
  - 1. Section 06 2024: 'Door, Frame, And Finish Hardware Installation' for installation of hardware.
  - 2. Section 08 0601: 'Hardware Group and Keying Schedules'.

#### 1.2 REFERENCES

- A. Association Publications:
  - 1. Builders Hardware Manufacturers Association (BHMA), 355 Lexington Avenue, 15th Floor, New York, NY 10017-6603, Tel: 212-297-2122 Fax: 212-370-9047, [www.buildershardware.com](http://www.buildershardware.com).
- B. Reference Standards:
  - 1. International Code Council / American National Standards Institute:
    - a. ICC / ANSI A117.1-2009, 'Accessible and Usable Buildings and Facilities'.
  - 2. Underwriters Laboratories (UL):
    - a. UL 10B, 'Fire Tests of Door Assemblies' (10th Edition).
    - b. UL 10C, 'Positive Pressure Fire Tests of Door Assemblies' (Third Edition).

#### 1.3 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
  - 1. Hardware Templates:
    - a. Supply necessary hardware installation templates to Section 06 2024 before pre-installation conference.

#### 1.4 SUBMITTALS

- A. Action Submittals:
  - 1. Product Data:
    - a. Manufacturer's cut sheets.
- B. Closeout Submittals:
  - 1. Include following in Operations And Maintenance Manual specified in Section 01 7800:
    - a. Operations and Maintenance Data:

- 1) Manufacturer's installation, adjustment, and maintenance instructions for each piece of hardware.
- b. Record Documentation:
  - 1) Manufacturers documentation:
    - a) Manufacturer's literature and/or cut sheets.

## 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Storage And Handling Requirements:
  1. Neatly and securely package hardware items by hardware group and identify for individual door with specified group number and set number used on Supplier's hardware schedule.
  2. Include fasteners and accessories necessary for installation and operation of finish hardware in same package.

## PART 2 - PRODUCTS

### 2.1 SUPPLIERS

- A. Existing Projects (Doors and Door Hardware):
  1. USA Projects:
    - a. Category Three Approved Suppliers. See Section 01 6200 for definitions of Categories:
      - 1) Architectural Building Supply, Salt Lake City, UT [www.cookandboardman.com](http://www.cookandboardman.com):
        - a) Contact Information: Russ Farley: phone (800) 574-4369, fax 801-484-6817, or e-mail [russf@absdoors.com](mailto:russf@absdoors.com).
      - 2) Beacon Metals Inc, Salt Lake City, UT [www.beacon-metals.com](http://www.beacon-metals.com):
        - a) Contact Information: Jared Butler: phone (801) 486-4884, cell (435) 216-2297, FAX 801-485-7647, or e-mail [Jared@beacon-metals.com](mailto:Jared@beacon-metals.com).
      - 3) Midwest D-Vision Solutions, Salt Lake City, UT [www.mwdsutah.com](http://www.mwdsutah.com).
        - a) Contact Information: Dan Mercer, office (801) 377-4355, cell (801) 618-9456, e-mail [danm@mwdsutah.com](mailto:danm@mwdsutah.com).

### 2.2 FINISHES

- A. Hardware Finishes (Verify existing hardware prior to submittal):
  1. Finishes for brass or bronze hardware items shall be:
    - a. ANSI / BHMA Finish Code 606.
      - 1) Description: Polished Brass (match existing).
      - 2) Base Metal: Brass. Bronze.
  2. Finishes for flat goods items may be:
    - a. ANSI / BHMA Finish Code 630.

- 1) Description: Polished Brass (match existing).
- 2) Base Metal: Brass or Bronze.

3. Materials other than steel, brass, or bronze shall be finished to match appearance polished brass plated.

## **2.3 FASTENERS**

- A. Fasteners shall be of suitable types, sizes and quantities to properly secure hardware. Fasteners shall be of same material and finish as hardware unless otherwise specified. Fasteners exposed to weather shall be non-ferrous or corrosion resisting steel.

## **PART 3 - EXECUTION**

### **3.1 PREPARATION**

- A. Before ordering materials, examine Contract Documents to be assured that material to be ordered is appropriate for thickness and substrate to which it is to be secured and will function as intended.

## **END OF SECTION**



## SECTION 08 7108 – STOPS AND HOLDERS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Products Supplied But Not Installed Under This Section:
  - 1. Door stops.
- B. Related Sections:
  - 1. Section 08 7101: Common Hardware Requirements.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURED UNITS

- A. Manufacturers:
  - 1. Manufacturer Contact List:
    - a. Hager, St Louis, MO [www.hagerhinge.com](http://www.hagerhinge.com).
    - b. Ives, Wallingford, CT [www.iveshardware.com](http://www.iveshardware.com).
    - c. Rockwood Manufacturing Co, Rockwood, PA [www.rockwoodmfg.com](http://www.rockwoodmfg.com).
- B. Stops:
  - 1. Use wall type stops unless indicated otherwise on Door Schedule.
  - 2. Provide model appropriate for substrate. Wall stops may be either cast or wrought.
  - 3. Type Two Acceptable Products:
    - a. Interior Wall                      Floor Mount
    - b. Hager                                      236W                                      243F
    - c. Ives    WS407CCV                                      FS438
    - d. Rockwood                                      409    440 / 441
    - e. Equal as approved by Architect before Installation. See Section 01 6200.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Interface With Other Work.

### END OF SECTION



## LOGAN YSA CORRIDOR FINISHES

### DIVISION 09 - FINISHES

09 2900	Gypsum Board
09 3013	Ceramic Tiling
09 7226	Sisal Wall Covering
09 9001	Common Painting and Coating Requirements
09 9123	Interior Painted Gypsum Board
09 9324	Interior Clear-Finished Hardwood

## SECTION 09 2900 - GYPSUM BOARD

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Includes But Not Limited To:
  - 1. Furnish and install gypsum board as described in Contract Documents.
  - 2. Furnish and install acoustical sealants as described in Contract Documents.
- B. Related Requirements:
  - 1. Section 07 9219: 'Acoustical Joint Sealants' for quality of acoustical sealants.
  - 2. Section 09 9413: 'Interior Textured Finishing'.

#### 1.2 REFERENCES

- A. Definitions:
  - 1. Accessories: Metal or plastic beads, trim, or moulding used to protect or conceal corners, edges, or abutments of the gypsum board construction.
  - 2. Drywall Primer: Paint material specifically formulated to fill the pores and equalize the suction difference between gypsum board surface paper and the compound used on finished joints, angles, fastener heads, and accessories and over skim coatings.
  - 3. Skim Coat: Either a thin coat of joint compound trowel applied, or a material manufactured especially for this purpose and applied in accordance with manufacturer's recommendations, over the entire surface.
  - 4. Texturing: Regular or irregular patterns typically produced by applying a mixture of joint compound and water, or proprietary texture materials including latex base texture paint, to a gypsum board surface previously coated with drywall primer.
- B. Reference Standards:
  - 1. ASTM International:
    - a. ASTM C11-18, 'Standard Terminology Relating to Gypsum and Related Building Materials and Systems'.
    - b. ASTM C475/C475M-17, 'Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board'.
    - c. ASTM C840-18a, 'Standard Specification for Application and Finishing of Gypsum Board'.
    - d. ASTM C1002-18, 'Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs'.
    - e. ASTM C1047-14a, 'Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base'.
    - f. ASTM C1178/C1178M-18, 'Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel'.
    - g. ASTM C1396/C1396M-17, 'Standard Specification for Gypsum Board'.
    - h. ASTM E84-18b, 'Standard Test Method for Surface Burning Characteristics of Building Materials'.
    - i. ASTM E119-18b, 'Standard Test Method for Fire Tests of Building Construction and Materials'.
  - 2. Gypsum Association:
    - a. GA-214-15, 'Recommended Levels of Gypsum Board Finish'.
    - b. GA-216-16: 'Application and Finishing of Gypsum Panel Products'.
    - c. GA-600-15, 'Fire Reference Design Manual'.

- d. GA-801-2017, 'Handling and Storage of Gypsum Panel Products: A Guide for Distributors, Retailers, and Contractors'.
- 3. International Building Code (IBC) (2018 or latest approved version):
  - a. Chapter 25, 'Gypsum Board And Plaster'.
- 4. Underwriters Laboratories, Inc.
  - a. UL 263: 'Test Method for Fire Tests of Building Construction and Materials' (14th Edition).
  - b. UL 723: 'Test for Surface Burning Characteristics of Building Materials; (11th Edition).

### 1.3 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conference:
  - 1. Schedule MANDATORY pre-installation conference immediately before installation of gypsum wallboard.
  - 2. In addition to agenda items specified in Section 01 3100, review following:
    - a. Finish requirements necessary for installation of finish materials over gypsum wallboard, and location and installation of ceramic tile backerboard.

### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. General:
  - 1. Following recommendations of GA-801 Guide for Handling and Storage of Gypsum Panel Products unless local, state or federal laws or agency rules differing from the recommendations shall take precedence.
- B. Delivery And Acceptance Requirements:
  - 1. Deliver materials in original packages, containers, or bundles bearing brand name, applicable standard designation, and Manufacturer's name.
- C. Storage And Handling Requirements:
  - 1. Store material under roof and keep dry and protected against damage from weather, condensation, direct sunlight, construction traffic, and other causes. Stack gypsum board flat to prevent sagging.

### 1.5 FIELD CONDITIONS

- A. Ambient Conditions:
  - 1. Comply with ASTM C840 or GA-216 requirements, whichever are more stringent:
    - a. Do not install interior products until installation areas are enclosed and conditioned.
      - 1) Temperature shall be 50 deg F and 95 deg F maximum day and night during entire joint operation and until execution of Certificate of Substantial Completion.
      - 2) Provide ventilation to eliminate excessive moisture.
      - 3) Avoid hot air drafts that will cause too rapid drying.
    - b. Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

#### A. Manufacturers:

##### 1. Manufacturer Contact List:

- a. American Gypsum, Dallas, TX [www.americangypsum.com](http://www.americangypsum.com).
- b. CertainTeed Gypsum, Inc; Tampa, FL [www.certainteed.com](http://www.certainteed.com).
- c. Georgia Pacific, Atlanta, GA [www.gp.com](http://www.gp.com).
- d. National Gypsum, Charlotte, NC [www.nationalgypsum.com](http://www.nationalgypsum.com).
- e. Pabco Gypsum, Newark, CA [www.pabco gypsum.com](http://www.pabco gypsum.com).
- f. United States Gypsum Co, Chicago, IL [www.usg.com](http://www.usg.com).

#### B. Materials:

##### 1. Interior Gypsum Board:

##### a. General:

##### 1) Size:

- a) Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

##### 2) Class Two Quality Standard:

- a) Core: Fire-resistant rated gypsum core.
- b) Complies with Type X requirements of ASTM C1396/C1396M (Section 5).
- c) Surface paper: Face paper suitable for painting.
- d) Long edges: Tapered edge.
- e) Overall thickness: 5/8 inch.

### 2.2 ACCESSORIES

#### A. Manufacturers:

##### 1. Manufacturer Contact List:

- a. Magnum Products, Lenaxa, KS [www.levelcoat.com](http://www.levelcoat.com).
- b. National Gypsum, Charlotte, NC [www.nationalgypsum.com](http://www.nationalgypsum.com).
- c. Soundproofing Co, San Marcos, CA [www.soundproofing.org](http://www.soundproofing.org).
- d. United States Gypsum Co, Chicago, IL [www.usg.com](http://www.usg.com).
- e. Westpac Materials Inc, Orange, CA [www.westpacmaterials.com](http://www.westpacmaterials.com).
- f. Wm. Zinsser & Co, Somerset, NJ [www.zinsser.com](http://www.zinsser.com).

##### 2. Gypsum Board Mounting Accessories:

##### a. Corner And Edge Trim:

- 1) Metal, paper-faced metal, paper-faced plastic, or solid vinyl meeting requirements of ASTM C1047. Surfaces to receive bedding cement treated for maximum bonding.

##### b. Casing Bead:

- 1) Metal, bull-nose casing bead to match existing used in lieu of wood casing at door jambs.
3. Joint Compound:
    - a. Best grade or type recommended by Board Manufacturer and meeting requirements of ASTM C475/C475M.
      - 1) Use Taping Compound for first coat to embed tape and accessories.
      - 2) Use Taping Compound or All-Purpose Compound for subsequent coats except final coat.
      - 3) Use Finishing Compound for final coat and for skim coat.
  4. Joint Reinforcing:
    - a. Paper reinforcing tape acceptable to Gypsum Board Manufacturer.
  5. Fasteners:
    - a. Bugle head screws meeting requirements of ASTM C1002:
      - 1) Gypsum Board:
        - a) Type W: For fastening gypsum board to wood members, of length to penetrate wood framing 5/8 inch minimum.
- B. Primer / Surfacer On Surfaces To Receive Texturing:
    1. Type Two Acceptable Products:
      - a. Sheetrock First Coat by USG.
      - b. Prep Coat by Westpac Materials.
      - c. Level Coat by Magnum Products.
      - d. Equal as approved by Architect before bidding. See Section 01 6200.
  - C. Primer On Surfaces To Receive Wallcovering:
    1. White, self-sizing, water based, all purpose wallcovering primer.
    2. Type Two Acceptable Products:
      - a. Shieldz Universal Pre-Wallcovering Primer by Wm. Zinsser and Company.
      - b. Equal as approved by Architect before application. See Section 01 6200.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Verification Of Conditions:
  1. Examine substrate and verify framing is suitable for installation of gypsum board.
  2. Examine gypsum board before installation. Reject panels that are wet, moisture damaged, and mold damaged.
  3. Notify Architect of unsuitable conditions in writing.
    - a. Do not install board over unsuitable conditions.
  4. Commencement of Work by installer is considered acceptance of substrate.

### 3.2 INSTALLATION

#### A. Interface With Other Work:

1. Coordinate with Division 06 for location of backblocking for edges and ends of gypsum board and for blocking required for installation of equipment and building specialties.
2. Do not install gypsum board until required blocking is in place.

#### B. General: Install and finish as recommended in ASTM C840 or GA-216 unless specified otherwise in this Section.

#### C. Interior Gypsum Board:

##### 1. General:

- a. Install so trim and reinforcing tape are fully backed by gypsum board. No hollow spaces between pieces of gypsum board over 1/8 inch wide before taping are acceptable.
- b. Rout out backside of gypsum board to accommodate items that extend beyond face of framing, but do not penetrate face of gypsum board, such as metal door frame mounting brackets, etc.
- c. On walls over 108 inches high, apply board perpendicular to support.
- d. Butt edges in moderate contact. Do not force in place. Shim to level.
- e. Leave facings true with joint, finishing flush. Vertical work shall be plumb and ceiling surfaces level.
- f. Scribe work closely:
  - 1) Keep joints as far from openings as possible.
  - 2) If joints occur near an opening, apply board so vertical joints are centered over openings.
  - 3) No vertical joints shall occur within 8 inches of external corners or openings.
- g. Install board tight against support with joints even and true. Tighten loose screws.
- h. Caulk perimeter joints in sound insulated rooms with specified acoustical sealant.

##### 2. Fastening:

- a. Apply from center of board towards ends and edges.
- b. Apply screws 3/8 inch minimum from ends and edges, one inch maximum from edges, and 1/2 inch maximum from ends.
- c. Spacing:
  - 1) Ends: Screws not over 7 inches on center at edges where blocking or framing occurs.
  - 2) Wood Framed Walls And Ceilings: Screws 7 inches on center in panel field.
- d. Set screw heads 1/32 inch below plane of board, but do not break face paper. If face is accidentally broken, apply additional screw 2 inches away.
- e. Screws on adjacent ends or edges shall be opposite each other.
- f. Drive screws with shank perpendicular to face of board

##### 3. Trim:

##### a. Corner Beads:

- 1) Attach corner beads to outside corners.
  - a) Attach metal corner bead with staples spaced 4 inches on center maximum and flat taped over edges of corner bead. Also, apply screw through edge of corner bead where wood trim will overlay corner bead.
  - b) Set paper-faced trim in solid bed of taping compound.

- b. Edge Trim: Apply where gypsum board abuts dissimilar material. Hold channel and 'L' trim back to allow for caulking.
4. Finishing:
- a. General:
    - 1) Tape and finish joints and corners throughout building as specified below to correspond with final finish material to be applied to gypsum board. When sanding, do not raise nap of gypsum board face paper or paper-faced trim.
    - 2) First Coat:
      - a) Apply tape over center of joint in complete, uniform bed of specified taping compound and wipe with a joint knife leaving a thin coating of joint compound. If metal corner bead is used, apply reinforcing tape over flange of metal corner bead and trim so half of tape width is on flange and half is on gypsum board.
      - b) Completely fill gouges, dents, and fastener dimples.
      - c) Allow to dry and sand lightly if necessary, to eliminate high spots or excessive compound.
    - 3) Second Coat:
      - a) Apply coat of specified joint compound over embedded tape extending 3-1/2 inches on both sides of joint center. Use finishing compound only if applied coat is intended as final coat.
      - b) Re-coat gouges, dents, and fastener dimples.
      - c) Allow to dry and sand lightly to eliminate high spots or excessive compound.
    - 4) Third Coat: Apply same as second coat except extend application 6 inches on both sides of joint center. Allow to dry and sand with fine sandpaper or wipe with damp sponge.
    - 5) Fourth Coat: Apply same as second coat except extend application 9 inches on both sides of joint center. Allow to dry and sand with fine sandpaper or wipe with damp sponge.
  - b. Finishing Levels: Finish panels to levels indicated below and according to ASTM C840, GA-214 and GA-216:
    - 1) Gypsum Board Surfaces not painted or finished:
      - a) GA-214 Level 1: 'All joints and interior angles shall have tape set in joint compound. Surface shall be free of excess joint compound. Tool marks and ridges are acceptable'.
    - 2) Gypsum Board Surfaces to Receive: Wall Covering Type A - Section 09 7226: 'Sisal Wall Covering':
      - a) GA-214 Level 3: 'All joints and interior angles shall have tape embedded in joint compound and one additional coat of joint compound applied over all joints and interior angles. Fastener heads and accessories shall be covered with two separate coats of joint compound. All joint compound shall be smooth and free of tool marks and ridges. Coat prepared surface with specified wall covering primer'.
    - 3) Gypsum Board Surfaces to Receive: Painted Texturing - Section 09 9413: 'Interior Textured Finishing':
      - a) GA-214 Level 4: 'All and interior angles shall have tape embedded in joint compound and two separate coats of joint compound applied over all flat joints and one separate coat of joint compound applied over interior angles. Fastener heads and accessories shall be



covered with three separate coats of joint compound. All joint compound shall be smooth and free of tool marks and ridges. Coat prepared surface with specified primer'.

- 4) Gypsum Board Surfaces to Receive: Smooth Gypsum Board Surfaces:
  - a) GA-214 Level 4: 'All and interior angles shall have tape embedded in joint compound and two separate coats of joint compound applied over all flat joints and one separate coat of joint compound applied over interior angles. Fastener heads and accessories shall be covered with three separate coats of joint compound. All joint compound shall be smooth and free of tool marks and ridges. Coat prepared surface with specified primer'.
- 5) Painted, Untextured Gypsum Board Surfaces, Except in Mechanical, Storage, And Utility Areas:
  - a) GA-214 Level 5: 'All joints and interior angles shall have tape embedded in joint compound and two separate coats of joint compound applied over flat joints and one separate coat of joint compound applied over interior angles. Fastener heads and accessories shall be covered with three separate coats of joint compound. A thin skim coat of joint compound trowel applied, or a material manufactured especially for this purpose and applied in accordance with manufacturer's recommendations, shall be applied to the entire surface. The surface shall be smooth and free of tool marks and ridges. Coat prepared surface with specified primer'.

### **3.3 FIELD QUALITY CONTROL**

#### **A. Non-Conforming Work:**

1. Remove and replace panels that are wet, moisture damaged, and mold damaged.
  - a. Indications that panels are wet, or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
  - b. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

### **3.4 CLEANING**

- #### **A. Remove from site debris resulting from work of this Section including taping compound spills.**

### **END OF SECTION**

# SECTION 09 3013 - CERAMIC TILING

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. Includes But Not Limited To:
  - 1. Furnish and install ceramic tile and tile setting materials and accessories as described in Contract Documents.
- B. Related Requirements:
  - 1. Section 09 2900: 'Gypsum Board' for installation of backerboard behind ceramic tile, except for joint reinforcing.
- C. Products Installed But not Furnished Under This Section:
  - 1. Interior Ceramic Tile Joint Sealants:
- D. Related Requirements:
  - 1. Section 07 9213: 'Elastomeric Joint Sealants'.

### 1.2 REFERENCES

- A. Association Publications:
  - 1. American National Standard Specification (ANSI) for the Installation of Ceramic Tile.
  - 2. International Standards Organization (ISO) 13007, 'Classification for Adhesives and Grout'.
  - 3. Tile Council of North America:
    - a. TCNA Handbook, 'Handbook for Ceramic, Glass, and Stone Tile Installation, 2015'.
- B. Definitions:
  - 1. Crack Isolation: Prevention of transfer of cracks from substrate through tile or stone when substrate is subjected to horizontal movement of cracks.
  - 2. Dynamic Coefficient of Friction (DCOF): Measures ratio of forces necessary to keep two surfaces sliding.
  - 3. Epoxy Grout: Mortar system employing epoxy resin and epoxy hardener portions.
  - 4. Grout: Rich or strong cementitious or chemically setting mix used for filling tile joints.
  - 5. ISO 13007 Standards Product Classifications:
    - a. Adhesives:

Types	Classes	Special Characteristics
C = Cementitious (Thin-Set Mortars)	1 = Normal 2 = Improved	F = Fast-Setting T = Slip-Resistant E = Extended Open Time S1 = Deformable S2 = Highly Deformable P1 = Plywood Adhesion P2 = Improved Plywood Adhesion
D = Dispersion (Mastics)	1 = Normal 2 = Improved	F = Fast-Setting T = Slip-Resistant

		E = Extended Open Time
R = Reaction Resin (Epoxies)	1 = Normal 2 = Improved	T = Slip-Resistant

- 1) Cementitious Adhesive (C): Mixture of hydraulic binding agents (e.g. portland cement), aggregates, and organic additives (e.g. latex polymers, moisture retention additive, etc...) to be mixed with water or latex admix before mixing.
- 2) Dispersion Adhesive (D): Ready-to-use mixture of organic binding agents in the form of an aqueous polymer dispersion, organic additives and mineral fillers - mastic type products.
- 3) Reaction Resin Adhesive (R): Single or multi-component mixture of synthetic resin, mineral fillers and organic additives in which curing occurs by chemical reaction – epoxy or urethane based products.
- 4) Class 1 (1): Adhesive has passed minimum pass level tests that are mandatory for that adhesive type.
- 5) Class 2 (2): Adhesive has passed same tests as Class 1 and/or other applicable tests, but at higher pass levels.
- 6) Fast-Setting (F): Adhesive with accelerated cure time that must achieve minimum strength requirements of fast setting adhesive. This designation does not apply to reaction resin adhesives (R).
- 7) Slip-Resistance (T): Downward movement of a tile applied to combed adhesive layer on vertical surface must be  $\leq 0.5\text{mm}$  for a C or D adhesive, and  $\leq 5\text{mm}$  for a type R adhesive.
- 8) Extended Open Time (E): Maximum time interval after application at which tiles can be embedded in applied adhesive and meet tensile adhesion strength requirement must be  $\geq 30$  minutes. This designation does not apply to reaction resin adhesives (R).
- 9) Deformability (S): Capacity of hardened adhesive to be deformed by stresses between tile and substrate without damage to installed surface – to pass S1 requirements an adhesive must be able to deform  $\geq 2.5\text{mm}$  but  $< 5\text{mm}$ ; to pass S2 requirements an adhesive must be able to deform  $\geq 5\text{mm}$ . This designation does not apply to reaction resin adhesives (R).
- 10) Exterior Glue Plywood (P): Adhesive with ability to bond tile or stone to exterior glue plywood substrates (interior only). This designation does not apply to reaction resin adhesives (R) or dispersion adhesives (D).

b. Grouts:

Types	Classes	Special Characteristics
CG = Cementitious Grout	1 = Normal 2 = Improved	F = Fast-Setting A = High Abrasion Resistance W = Reduced Water Absorption
RG = Reaction Resin Grouts	1 = Normal 2 = Improved	Higher performance characteristics than improved cementitious grouts

- 1) Cementitious Grout (CG): Mixture of hydraulic binding agents (e.g. portland cement), aggregates, inorganic and organic additives (e.g. latex polymers, moisture retention additive, etc...).
- 2) Reaction Resin Grout (RG): Single or multi-component mixture of synthetic resin, mineral fillers and organic additives in which curing occurs by chemical reaction – epoxy or urethane based products.
- 3) Class 1 (1): Grout has passed minimum pass level tests that are mandatory for cementitious grouts.
- 4) Class 2 (2): Cementitious grout has passed same tests as Class 1 and/or other applicable tests, but at higher pass levels.
- 5) Fast-Setting (F): Grout with accelerated cure time that must achieve minimum compressive strength requirements under normal conditions within twenty four (24) hours. This designation applies only to cementitious grouts (CG).
- 6) High Abrasion Resistance (A): Capability of grout to resist wear. This designation applies only to cementitious grouts (CG).

- 7) Reduced Water Absorption (W): Grout has lower water absorption rate than standard cementitious grout. This designation applies only to cementitious grouts (CG).
6. Latex/Polymer Modified Portland Cement Mortar: Latex/Polymer modified portland cement mortar is a mixture of portland cement, sand, and special latex/polymer additive that is used as a bond coat for setting tile.
7. Pavers: Unglazed porcelain or natural clay tile formed by dust-pressed method and similar to ceramic mosaics in composition and physical properties but relatively thicker with 6 inch - or more of facial area. (ASTM C242).
8. Sanded Cement Grout: Factory prepared mixture of cement, graded sand, and other ingredients to produce water-resistant, dense, uniformly colored material. Used for joints of 1/8 inch width or greater.
9. Static Coefficient of Friction (SCOF): Measures ratio of forces necessary to start two surfaces sliding (older measurement of friction replaced by dynamic coefficient of friction (DCOF)).
10. Unsanded Cement Grout: Factory prepared mixture of cement and additives that provide water retentivity. Used for joints of 1/8 inch or less.

C. Reference Standard:

1. American National Standards Institute:

- a. ANSI A108/A118/A136.1, 'American National Standards Specifications for the Installation of Ceramic Tile', Version 2015 (compilation of standards):

1) Installation Standards:

- a) A108.01, 'General Requirements: Subsurfaces and Preparation by Other Trades'.
- b) A108.02, 'General Requirements: Materials, Environmental, and Workmanship'.
- c) A108.05, 'Installation of Ceramic Tile with Dry-Set Portland Cement Mortar of Latex-Portland Cement Mortar'.
- d) A108.6, 'Installation of Tile with Chemical Resistant, Water Cleanable Tile-Setting and Grouting Epoxy'.
- e) A108.10, 'Installation of Grout in Tilework'.
- f) A108.17, 'Installation of Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone'.

2) Material Specifications:

- a) A118.1, 'Dry-Set Portland Cement Mortar'.
- b) A118.3, 'Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy and Water Cleanable Tile-Setting Epoxy Adhesive'.
- c) A118.4, 'Latex Portland Cement Mortar'.
- d) A118.6, 'Cement Grouts for Tile Installation'.
- e) A118.7, 'High-Performance Polymer Modified Latex/Portland Cement Grouts for Tile Installation'.
- f) A118.10, 'Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installations'.
- g) A118.12, 'Crack Isolation Membranes for Thin-set Ceramic Tile and Dimension Stone Installations'.

- b. ANSI A137.1, 'National Standard Specifications for Ceramic Tile'.

2. ASTM International:

- a. ASTM A1064/A1064M-18a, 'Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete'.
- b. ASTM C144-18, 'Standard Specification for Aggregate for Masonry Mortar'.
- c. ASTM C150/C150M-18, 'Standard Specification for Portland Cement'.
- d. ASTM C206-14, 'Standard Specification for Finishing Hydrated Lime'.
- e. ASTM C207-18, 'Standard Specification for Hydrated Lime for Masonry Purposes'.

- f. ASTM C242-18, 'Standard Terminology of Ceramic Whitewares and Related Products'.
  - g. ASTM C373-18, 'Standard Test Method for Water Absorption, Bulk Density, Apparent Porosity, and Apparent Specific Gravity of Fired Whiteware Products'.
  - h. ASTM C482--02(2014), 'Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement Paste'.
  - i. ASTM C501-84(2015), 'Standard Test Method for Relative Resistance to Wear of Unglazed Ceramic Tile by the Taber Abraser'.
  - j. ASTM C648-04(2014), 'Standard Test Method for Breaking Strength of Ceramic Tile'.
  - k. ASTM C847-18, 'Standard Specification for Metal Lath'.
3. International Organization for Standardization:
- a. ISO 13007-1-2014, ' Ceramic tiles - Grouts and adhesives - Part 1: Terms, definitions and specifications for adhesives'.
  - b. ISO 13007-2-2013, ' Ceramic tiles - Grouts and adhesives - Part 2: Test methods for adhesives'.
  - c. ISO 13007-3-2013, ' Ceramic tiles - Grouts and adhesives - Part 3: Terms, definitions and specifications for grouts'.
  - d. ISO 13007-4-2013, ' Ceramic tiles - Grouts and adhesives - Part 4: Test methods for grouts'.
4. Tile Council of North America:
- a. TCNA F111-15, 'On-Ground or Above-Ground Concrete, Unbonded Mortar Bed, Ceramic Tile'.
  - b. TCNA F115-15, 'On-Ground Concrete, Ceramic Tile, Epoxy or Furan Grout'.
  - c. TCNA W244c-15, 'Wood or Metal Studs, Cement Backer Board, Ceramic Tile'.
  - d. TCNA W245-15, 'Wood or Metal Studs, Coated Glass Mat Water-Resistant Gypsum Backer Board, Ceramic Tile'.

### 1.3 ADMINISTRATIVE REQUIREMENTS

#### A. Pre-Installation Conference:

- 1. In addition to agenda items specified in Section 01 3100, review following:
  - a. Review installation scheduling, coordination with related work, and placement of tile.
  - b. Review Manufacturer's installation requirements, submittals, and Installers requirements to assure issuance of Manufacturer's system warranty.
  - c. Review surface preparation.
  - d. Review water-proofing and crack isolation membrane requirements.
  - e. Review tile base installation requirements.
  - f. Review floor tile grout thickness requirements.

### 1.4 SUBMITTALS

#### A. Action Submittals:

- 1. Samples:
  - a. 24 inch square sample on specified tile backer showing all types of tile, grout, and colors specified in this Section. 1/2 of sample board shall show floor tile and 1/2 shall show wall tile.
  - b. One sample of each type of base tile and trim piece to be used on Project.

#### B. Informational Submittals:

- 1. Certificates:
  - a. Master grade certificate.
    - 1) Conform to ANSI A137.1.

2. Manufacturer's Instructions:
    - a. Provide instructions for installation of tile-setting materials.
  3. Source Quality Control Submittals:
    - a. Provide Manufacturer documentation indicating proposed materials will satisfy requirements for Manufacturer's Warranty.
  4. Qualification Statement. See Section 01 4301 for qualifications:
    - a. Installer:
      - 1) Provide Qualification documentation if requested by Architect or Owner.
- C. Closeout Submittals:
1. Include following in Operations And Maintenance Manual specified in Section 01 7800:
    - a. Operations and Maintenance Data:
      - 1) Cleaning and maintenance instructions.
    - b. Warranty Documentation:
      - 1) Include copy of final, executed warranty.
    - c. Record Documentation:
      - 1) Manufacturers Documentation:
        - a) Source Quality Control Submittal documentation showing materials will satisfy requirements for Manufacturer's Warranty.
        - b) Manufacturer's cut sheets of materials used in installed system.
        - c) Tile color and pattern selections.

## 1.5 QUALITY ASSURANCE

- A. Source Of Materials:
1. Provide materials obtained from one (1) source for each type and color of tile, grout, and setting materials for Manufacture's system warranty.
- B. Qualifications:
1. Installer: Requirements of Section 01 4301 applies, but not limited to following:
    - a. Minimum three (3) years' experience installing specified tile installations.
    - b. Minimum five (5) satisfactorily completed installations of comparable quality, scope, similar size, and complexity in past two (2) years before bidding.
    - c. Upon request, submit documentation.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery And Acceptance Requirements:
1. Deliver and store packaged materials in their original unopened containers with labels intact until time of use.

B. Storage and Handling Requirements:

1. Store and handle materials in a manner to prevent damage or contamination by water, freezing, or foreign matter.
2. Keep grade seals intact and cartons dry until tile are used.

## 1.7 FIELD CONDITIONS

A. Ambient Conditions:

1. Do not apply tile setting materials to surfaces that contain frost.
2. Keep ambient temperatures of area to receive tile work and surface temperatures of substrates at 50 deg F minimum during preparation of mortar bed, laying of tile, and for seventy-two (72) hours after completion of tile work. Use electric heat to prevent discoloration of grout.
3. Temperature of substrate shall be 60 deg F and rising for application of epoxy and furan unless otherwise specifically authorized by Manufacturer.
4. Maintain epoxy at stable temperature between 60 deg F and 90 deg F during curing period.

## 1.8 WARRANTY

A. Manufacturer Warranty:

1. Mortar Manufacturer's twenty-five (25) year minimum system warranty on tile-setting materials for surface preparation, setting materials and grouting materials; includes replacement of defective materials and deterioration, including replacement of tile and labor and materials when products purchased are used within their shelf life and installed in accordance to Manufacturers written instructions and industry standard guidelines.

## PART 2 - PRODUCTS

### 2.1 SYSTEMS

A. Manufacturers:

1. Manufacturer's Contact List:
  - a. Ardex Engineered Cements, Aliquippa, PA [www.ArdexAmericas.com](http://www.ArdexAmericas.com).
    - 1) Contact Information: Don Richards (206) 979-0401 [www.Don.richards@ArdexAmericas.com](mailto:Don.richards@ArdexAmericas.com).
  - b. Custom Building Products, Seal Beach, CA [www.custombuildingproducts.com](http://www.custombuildingproducts.com).
    - 1) Contact Information: John Gallup (206) 718-6024 [johng@cbpmail.net](mailto:johng@cbpmail.net).
  - c. Dal-Tile Corp., Div. of Mohawk Industries, Dallas, TX [www.daltile.com](http://www.daltile.com).
  - d. Interceramic Inc., Garland, TX [www.interceramic.com](http://www.interceramic.com).
  - e. Laticrete International Inc., Bethany, CT [www.laticrete.com](http://www.laticrete.com).
  - f. Mapei Americas Headquarters, Deerfield Beach, FL [www.mapei.com](http://www.mapei.com).
    - 1) Contact Information: Bart A. Wilde (801) 467-2060 [www.bwilde@mapei.com](mailto:bwilde@mapei.com).
  - g. Merkrete, by Parex USA, Inc., Anaheim, CA [www.merkrete.com](http://www.merkrete.com).
    - 1) Contact Information: Andy Townes (505) 873-1181 [andy.townes@parexusa.com](mailto:andy.townes@parexusa.com).
  - h. Schuler Systems L.P., Plattsburgh, NY [www.schluter.com](http://www.schluter.com).

B. Design Criteria:

1. General:
  - a. Ceramic Tile:
    - 1) Tile shall be standard quality, white or off-white body, square or cushion edge, graded in accordance with ANSI A137.1.
    - 2) Square edge, white body, lug type wall tile. Field wall tile shall have two lugs on each edge to assure uniform joint, approximately 0.040 inch.
    - 3) External and internal corner pieces shall be standard grade.

C. Description:

1. Ceramic Tile:
  - a. Floor and Wall Tile:
    - 1) Floors: 6 inch by 6 inch
    - 2) Walls: 6 inch by 6 inch
    - 3) Category Four Approved Colors. See Section 01 6200 for definitions of Categories:
      - a) Walls:
        - (1) Cross Colors Mingles Porcelain by Crossville; color as selected by Owner/Architect.
        - (2) Canvas by Interceramic.

D. Materials:

1. Wall Tile:
  - a. Category Four Approved Products. See Section 01 6200 for definition of Categories:
    - 1) Cross Colors Mingles Porcelain by Crossville; color as selected by Owner/Architect.
2. Metal Trim:
  - a. Category Four Approved Products. See Section 01 6200 for definitions of Categories:
    - 1) Tile / Carpet Junction: Schluter-RENO-AETK.
3. Joint Sealants:
  - a. Interior Ceramic Tile Joints are furnished in Section 07 9213 and installed in Section 09 3013 'Ceramic Tiling' including the following:
    - 1) Ceramic and paver cove base inside corners.
    - 2) Ceramic and paver tile joints.
4. Backer Board Joint Reinforcing: 2 inch wide glass fiber mesh tape.
5. Tile Setting Products:
  - a. Use only products of same Manufacturer to validate warranty, unless otherwise acceptable to Ceramic Tile Supplier.
  - b. Use only products that meet Mortar Manufacturer's twenty five (25) year system warranty requirements.
  - c. Latex-Portland Cement Mortar For Floors:
    - 1) Design Criteria:



- a) Meet ANSI material specification requirements of ANSI 118.4, ANSI 118.11, or ANSI A118.15.
  - b) Meet ANSI installation specification requirements of ANSI A108.4 or ISO material specification ISO13007 installation material specification and . C2ES1P2 performance requirements for adhesive.
- 2) Category Four Approved Products. See Section 01 62 00 for definitions of Categories:
  - a) ARDEX: Ardex X77.
  - b) CUSTOM: Megalite Crack Prevention Mortar or FlexBond Premium Crack Prevention Thin-set Mortar (no additives needed).
  - c) LATICRETE: 254 Platinum Thinset.
  - d) MAPEI: Ultraflex 3.
  - e) MERKRETE: 735 Premium Flex.
- d. Latex/Polymer Modified Portland Cement Mortar For Walls:
  - 1) Design Criteria:
    - a) Meet ANSI material specification requirements of ANSI 118.4, ANSI 118.11, or ANSI A118.15.
    - b) Meet ANSI installation specification requirements of ANSI A108.4 or ISO material specification ISO13007 installation material specification and C2ES1P2 performance requirements for adhesive.
  - 2) Category Four Approved Products. See Section 01 6200 for definitions of Categories:
    - a) ARDEX: Ardex X77.
    - b) CUSTOM: Megalite Thin-Set Mortar or FlexBond Fortified Thin-Set Mortar.
    - c) LATICRETE: 254 Platinum Thinset.
    - d) MAPEI: Ultraflex 3.
    - e) MERKRETE: 735 Premium Flex.
- e. Floor Grout (Epoxy):
  - 1) Design Criteria:
    - a) Meet ANSI material specification requirements of ANSI 118.3.
    - b) Meet ANSI installation specification requirements of ANSI A108.6 and ISO material specification ISO13007 RG.
  - 2) Approved Color:
    - a) ARDEX: 25 Stormy Mist.
    - b) CUSTOM: No. 145 Light Smoke.
    - c) LATICRETE: No. 24 Natural Grey.
    - d) MAPEI: No. 11 Sahara Beige.
    - e) MERKRETE: Pro Epoxy D-153 Buckskin.
  - 3) Category Four Approved Products. See Section 01 6200 for definitions of Categories:
    - a) ARDEX: Ardex WA.
    - b) CUSTOM: CEG-Lite 100% Solids Commercial Epoxy Grout.
    - c) LATICRETE: SpectraLOCK PRO.
    - d) MAPEI: Kerapoxy (sanded).
    - e) MERKRETE: Pro Epoxy.
- f. Wall Grout (Modified Polymer):

- 1) Design Criteria:
  - a) Meet ANSI material specification requirements of ANSI A118.6 or ANSI A118.7.
  - b) Meet ANSI installation specification requirements of ANSI 108.10 or ISO material specification ISO13007 C2ES1P2.
- 2) Color: Selected by Architect.
- 3) Category Four Approved Products. See Section 01 6200 for definitions of Categories:
  - a) ARDEX: Ardex FH.
  - b) CUSTOM: PolyBlend Non-Sanded Grout or Prism Color Consistent Grout.
  - c) LATICRETE: 1600 Series Unsanded Dry Set Wall Grout with 1776 Grout Admix Plus additive.
  - d) MAPEI: Keracolor-U Unsanded Polymer-Modified Grout.
  - e) MERKRETE: Non-Sanded ColorGrout, latex modified.

g. Waterproofing Membrane:

- 1) Design Criteria:
  - a) Meet ANSI installation specification requirements of ANSI 108.10.
  - b) ANSI installation specification requirements not required.
- 2) Category Four Approved Products. See Section 01 6200 for definitions for Categories:
  - a) Troweled applied, cement based:
    - (1) ARDEX: Ardex 8+9.
    - (2) MAPEI: Mapelastix 315.
  - b) Liquid applied, latex based:
    - (1) CUSTOM: RedGuard Waterproofing or Crack Prevention Membrane or FractureFree Crack Prevention Membrane.
    - (2) LATICRETE: Hydro Ban.
    - (3) MAPEI: Mapelastix AquaDefense.
    - (4) MERKRETE: Hydro-Guard SP-1.

h. Crack Isolation Membrane:

- 1) Design Criteria:
  - a) Meet ANSI installation specification requirements of ANSI 118.12.
  - b) ANSI installation specification requirements not required.
- 2) Category Four Approved Products. See Section 01 6200 for definitions for Categories:
  - a) Flexible, thin, load-bearing, fabric-reinforced:
    - (1) ARDEX: Ardex 8+9 with SK Mesh Tape.
    - (2) CUSTOM: Crack Buster Pro Crack Prevention Mat Underlayment, with Peel & Stick Primer.
    - (3) LATICRETE: Blue 92 Anti-Fracture Membrane.
    - (4) MAPEI: Mapeguard 2, and Primer SM.
    - (5) MERKRETE: Hydro-Guard SP-1.
  - b) Liquid applied, latex based:

- (1) CUSTOM: RedGuard Waterproofing and Crack Prevention Membrane or FractureFree Crack Prevention Membrane.
- (2) LATICRETE: Hydro Ban.
- (3) MAPEI: Mapelastic AquaDefense.
- (4) MERKRETE: Fracture Guard 5000.

### **PART 3 - EXECUTION:**

#### **3.1 INSTALLERS**

A. Acceptable Installers. See Section 01 4301:

1. Meet Quality Assurance Applicator Qualifications as specified in Part 1 of this specification.

#### **3.2 EXAMINATION**

A. Verification Of Conditions:

1. Examine substrates where tile will be installed for compliance with requirements for installation tolerances and other conditions effecting performance of installed tile.
2. Verify tile substrate is well cured, dry, clean, and free from oil or waxy films, and curing compounds.
3. Notify Architect in writing if surfaces are not acceptable to install tile:
  - a. Do not lay tile over unsuitable surface.
  - b. Commencing installation constitutes acceptance of surfaces and approval of existing conditions.

#### **3.3 PREPARATION**

A. Surface Preparation:

1. Allow concrete to cure for twenty-eight (28) days minimum before application of mortar bed.
2. Repair and clean substrate in accordance with installation standards and manufacturer's instructions.

#### **3.4 INSTALLATION**

A. Interface With Other Work:

1. Grounds, anchors, plugs, hangers, door frames, electrical, mechanical, and other work in or behind tile shall be installed before tile work is started.

B. Special Techniques:

1. Install in accordance with following latest TCNA installation methods:
  - a. Flush Concrete Slabs with crack isolation membrane: TCNA F115.
  - b. Framed Walls: TCNA W245 with waterproof membrane.

C. Tolerances:

1. Plane of Vertical Surfaces:
  - a. 1/8 inch in 8 feet from required plane shall be plumb and true with square corners.
2. Variation In Slab Grade:
  - a. Plus or minus 1/8 inch in any 10 feet of floor slab and distance between high point and low point of slab of 1/2 inch.

b. Slab Testing Procedure:

- 1) Place ends of straightedge on 3/8 inch high shims.
- 2) Floor is satisfactory if 1/4 inch diameter steel rod rolled under straightedge will not touch anywhere along 10 foot length and 1/2 inch diameter steel rod will not fit under straightedge anywhere along 10 foot length.

D. General:

1. Install tile in pattern indicated:
  - a. Align joints when adjoining tiles on floor, base, walls, and trim are same size.
  - b. Adjust to minimize tile cutting and to avoid tile less than half size.
  - c. Center and balance areas of tile if possible.
2. Extend tile into recesses and under equipment and fixtures to form a complete covering without interruption:
3. Maintain heights of tilework in full courses to nearest obtainable dimension where heights are given in feet and inches and are not required to fill vertical spaces exactly.
4. Install cut tile with cuts on outer edges of field:
  - a. Provide straight cuts that align with adjacent materials.
  - b. When possible, smooth cut edges of tile or use appropriate cutter or wet saw to produce smooth cuts.
  - c. Do not install tile with jagged or flaked edges.
5. Terminate tile neatly at obstructions, edges, and corners, without disruption of pattern or joint alignment:
  - a. Fit tile closely where edges are to be covered by trim, escutcheons, or similar devices.
6. Provide straight tile joints of uniform width, subject to variance in tolerance allowed in tile size:
  - a. Make joints smooth and even, without voids, cracks, or excess mortar or grout.
7. Use a beating block and hammer or rubber mallet so faces and edges of individual tiles are flush and level with faces and edges of adjacent tiles, and to reduce lippage.
8. Accessories in tilework shall be evenly spaced, properly centered with tile joints, and level, plumb, and true to correct projection.
9. Leave finished installation clean and free of cracked, chipped, broken, unbonded, and otherwise defective tile work.

E. Application On Concrete Floor:

1. Clean substrate surface thoroughly.
  - a. Dampen if very dry, but do not saturate.
2. Install tile with 100 percent contact with mortar bed.
  - a. Obtaining 100 percent contact may require troweling mortar layer on back of each tile before placing on mortar bed.
3. Install base by flush method (square or thin-lip method is not acceptable):
  - a. Allow for expansion joint directly above any expansion or control joints in slab.
4. Insert temporary filler in expansion joints.

F. Application Of Mortar:

1. Do not spread more mortar than can be covered within ten (10) to fifteen (15) minutes:
  - a. If 'skinning' occurs, remove mortar and spread fresh material.
  - b. Spread mortar with notches running in one (1) direction, perpendicular to pressing, pushing and pulling of tile during placement.
2. Install tile before mortar has started initial cure:
  - a. For thin set mortar application, use notch trowel that will achieve the recommended coverage of mortar after tiles have been installed.
3. Place tile in fresh mortar, press, push and pull tile slightly to achieve as near 100 percent coverage and contact of tile with setting material and substrate as possible:
  - a. Average contact area shall be not less than eighty (80) percent except on exterior or shower installations where contact area shall be ninety-five (95) percent when not less than three (3) tiles or tile assemblies are removed for inspection. The eighty (80) percent or ninety-five (95) percent coverage shall be sufficiently distributed to give full support of the tile.
  - b. Support corners and edges with mortar leaving no hollow corners or edges.
4. Install so there is 1/8 inch of mortar between tile and substrate after proper bedding:
  - a. Periodically remove sheets or individual tiles to assure proper bond coverage consistent with industry specifications.
  - b. If coverage is found to be insufficient, use a larger size notch trowel.

G. Application Of Grout:

1. Firmly set tile before applying grout:
  - a. This requires forty-eight (48) hours minimum.
2. Before grouting:
  - a. Remove all paper and glue from face of mounted tile.
  - b. Remove spacers or ropes before applying grouting:
3. Mixing Grout:
  - a. Use clean buckets and mixing tools:
    - 1) Use sufficient pressure and flow grout in progressively to avoid air pockets and voids.
  - b. Machine mixing of grout is preferred to assure uniform blend. To prevent trapping air bubbles into prepared grout, use slow speed mixer.
  - c. Slake for fifteen (15) minutes.
  - d. Water or latex additives used for mixing with dry grout shall be measured accurately.
4. Before grouting entire area, do a test area to assure there will be no permanent staining or discoloration of tile and to verify that excess grout can be easily removed from tile surface:
  - a. If necessary, pre-coat exposed surfaces of tile with a grout release recommended by Grout Manufacturer to facilitate removal of excess grout.
5. Installing Grout:
  - a. Use caution, when grouting glazed ceramic tiles to prevent scratching or damaging surface of tile.

- b. Dampen dry joints prior to grouting with sand-portland cement grout, standard sanded cement grout, standard unsanded cement grout, polymer modified sanded tile grout, and polymer modified unsanded tile grout. Do not leave puddles of water in joints before grouting.
- c. Keep an adequate joint depth open for grouting. Force maximum amount of grout into joints.
- d. Apply grout to produce full, smooth grout joints of uniform width, and free of voids and gaps
  - 1) Fill joints of cushion edge tile to depth of cushion.
  - 2) Fill joints of square edge tile flush with surface.
  - 3) Fill joint between wall tile and bull-nosed paver tile base with floor grout.
- e. Install floor tile with grout thickness of 3/16 inch maximum.
- f. Remove excess grout from surface of tile before it loses its plasticity or begins to set.
- g. Finished grout shall be uniform in color, smooth, and without voids, pin holes, or low spots.

H. Curing:

- 1. Keep installation at 65 to 85 deg F during first eight (8) hours of cure. Shade area completely from sun during this period.

I. Application of Joint Sealants:

- 1. Apply joint sealants after grout has cured:
  - a. This requires forty-eight (48) hours minimum.
- 2. Before applying sealant:
  - a. Remove spacers or ropes before applying joint sealants.
  - b. Apply backer rod and joint sealants at expansion joints.

### 3.5 FIELD QUALITY CONTROL

A. Non-Conforming Work:

- 1. Correct any work found cracked, chipped, broken, unbounded and otherwise defective or not complying with contract document requirements at no additional cost to the Owner.

### 3.6 CLEANING

A. If one has been used, remove grout release and clean tile surfaces so they are free of grout residue and foreign matter:

- 1. If a grout haze or residue remains, use a suitable grout haze remover or cleaner.
- 2. Flush surface with clean water before and after cleaning.

### 3.7 PROTECTION

A. Close to traffic areas where tile is being set and other tile work being done:

- 1. Keep closed until tile is firmly set.
- 2. Before, during, and after grouting, keep area clean, dry, and free from foreign materials and airflow that will interfere with setting and curing of grout.

B. Newly tiled floors shall not be walked on nor worked on without using kneeling boards or equivalent protection of tiled surface.

C. After cleaning, provide protective covering and maintain conditions protecting tile work from damage and deterioration:

1. Where tiled surfaces will be subject to equipment or wheel traffic or heavy construction traffic, cover protective covering with 1/4 inch hardboard, plywood, or similar material.

**END OF SECTION**

## SECTION 09 7226 - SISAL WALL COVERING

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Includes But Not Limited To:
  - 1. Furnishing and installing sisal wall covering as described in Contract Documents.
- B. Related Requirements:
  - 1. Section 06 4512: 'Architectural Woodwork Wood Trim' for wood trim for sisal wall covering.
  - 2. Section 09 2900: 'Gypsum Board' for priming of gypsum board.

#### 1.2 REFERENCES

- A. Definitions:
  - 1. Class A: Fire classification for product with flame spread rating of no more than 25 and smoke developed rating not exceeding 50, when tested in accordance with ASTM E84 or UL 723.
    - a. Flame Spread: The propagation of flame over a surface.
    - b. Flame Spread Index: The numerical value assigned to a material tested in accordance with ASTM E84 or UL 723.
    - c. Smoke-Developed Index: The numerical value assigned to a material tested in accordance with ASTM E84 or UL 723.
    - d. Surface Burning Characteristic: Rating of interior and surface finish material providing indexes for flame spread and smoke developed, based on testing conducted according to ASTM Standard E84 or UL 723.
- B. Reference Standards:
  - 1. ASTM International:
    - a. ASTM E84-18, 'Standard Test Method for Surface Burning Characteristics of Building Materials'.
  - 2. International Building Code (IBC) (2015 or latest approved edition):
    - a. Chapter 8, 'Interior Finishes':
      - 1) Section 803, 'Wall And Ceiling Finishes':
        - a) 803.1.3, 'Room Corner Test for Textile Wall Coverings and Expanded Vinyl Wall Coverings'.
        - b) 803.1.4, 'Acceptance Criteria for Textile and Expanded Vinyl Wall Coverings Tested to ASTM E84 or UL 723'.
  - 3. National Fire Protection Association:
    - a. NFPA 101: 'Life Safety Code' (2015 Edition).
    - b. NFPA 265: 'Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Coverings on Full Height Panels and Walls', (2015 Edition).
  - 4. Underwriters Laboratories, Inc.:



- a. UL 723: 'Standard for Safety Test for Surface Burning Characteristics of Building Materials'; (2010 - Tenth Edition).

### 1.3 SUBMITTALS

#### A. Action Submittals:

##### 1. Product Data:

- a. Manufacturer's literature or cut sheet.
- b. Maintenance instructions.
- c. Color and pattern selection.

#### B. Informational Submittals:

##### 1. Test And Evaluation Reports:

- a. Copies of Quality Assurance requirements for 'Class A' flame spread rating and 'Room-Corner Test'.

##### 2. Qualification Statement:

###### a. Installer:

- 1) Provide Qualification documentation if requested by Architect or Owner.

#### C. Closeout Submittals:

##### 1. Include following in Operations And Maintenance Manual specified in Section 01 7800:

###### a. Operations and Maintenance Data:

- 1) Cleaning and maintenance instructions.

###### b. Record Documentation:

###### 1) Manufacturers Documentation:

- a) Manufacturer's literature or cut sheets.
- b) Color and pattern selections.

### 1.4 QUALITY ASSURANCE

#### A. Regulatory Agency Sustainability Approvals:

##### 1. Fire-Test-Response Characteristics: As determined by testing identical wall coverings applied with identical adhesives to substrates according to test method indicated below by qualified testing agency. Identify products with appropriate markings of applicable testing agency.

###### a. Surface-Burning Characteristics:

- 1) Wall covering shall have Class A flame spread rating in accordance with ASTM E84 or UL 723 Type 1.

- a) Class A (Flame spread index 0-25; Smoke-developed index 0-450).
- b) Flash point: None.

2. Passage of 'Room-Corner Test' as recognized by AHJ, is required for system. Adhesive cited in test literature is required for installation of wall covering on Project.

a. Room Corner Tests:

- 1) ASTM E84, 'Standard Test Method for Surface Burning Characteristics of Building Materials'.
- 2) IBC 803.1.3, 'Room Corner Test for Textile Wall Coverings and Expanded Vinyl Wall Coverings'.
- 3) IBC 803.1.4, 'Acceptance Criteria for Textile and Expanded Vinyl Wall Coverings Tested to ASTM E84 or UL 723'.
- 4) NFPA 265, 'Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Coverings on Full Height Panels and Walls'.
- 5) UL 723, 'Standard for Safety Test for Surface Burning Characteristics of Building Materials'.

B. Qualifications:

1. Installer: Requirements of Section 01 4301 applies, but not limited to following:

- a. Minimum three (3) years experience in wall covering installations.
- b. Minimum five (5) years satisfactorily completed projects of comparable quality, similar size, and complexity in past three (3) years before bidding.
- c. Agree to view 'No-Flame Sisal Wall Covering Recommended Installation Procedures' provided by Owner found on internet in AEC Webpage under Training in Menu tab. Contact Architect for access to video. This requirement may be waived by Owner, if Installer has viewed video before or can document at least two (2) satisfactorily completed projects of comparable size using sisal wall coverings in past three (3) years before bidding.
- d. Upon request, submit documentation and video verification.

## 1.5 DELIVERY, STORAGE, AND HANDLING

A. Delivery And Acceptance Requirements:

1. Deliver materials in sealed containers with Manufacturer's labels intact.

B. Storage And Handling Requirements:

1. Store materials in protected area at temperatures below 90 deg F and above 50 deg F. Keep from freezing.
2. Keep container tightly closed in well-ventilated area, and store upright when not in use.
3. Shelf life: One (1) year minimum - Unopened containers.

## 1.6 FIELD CONDITIONS

A. Ambient Conditions:

1. Apply when the temperature is between 50 deg F minimum and 100 deg F maximum and relative humidity is less than seventy-five (75) percent.
2. Provide good ventilation.

## 1.7 WARRANTY

A. Manufacturer Warranty:

1. Provide five (5) year warranty against manufacturing defects.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Manufacturer Contact List:
  - 1. Design Materials Inc, Kansas City, KS [www.dmikc.com](http://www.dmikc.com).
  - 2. Fibreworks, Louisville, KY [www.fibreworks.com](http://www.fibreworks.com).

### **2.2 DESCRIPTION**

- A. Colors:
  - 1. As selected by Architect.

### **2.3 MATERIALS**

- A. Sisal Wall Covering:
  - 1. 100 percent fire-treated sisal yarn.
  - 2. 1/4 inch pile height, 48 oz/sq yd minimum. Sisal to be installed full height on walls shall be furnished in 9 or 13 foot wide goods.
  - 3. Reversible weave type, without backing.

### **2.4 ACCESSORIES**

- A. Wall Covering Adhesive:
  - 1. Category Four Approved Products. See Section 01 6200 for definitions of Categories.
    - a. 257 Sisal Adhesive by Fibreworks.
    - b. Sisal Adhesive No. 1-422 by Design Materials.
- B. Seam Cement:
  - 1. Type Two Acceptable Products:
    - a. 8415 Glue-Down Carpet Seam Adhesive by Roberts Consolidated Industries, Div QEP, Henderson, NV [www.robertsconsolidated.com](http://www.robertsconsolidated.com).
    - b. Equal as recommended by Wall Covering Manufacturer with approval of Architect before installation. See Section 01 6200.

## **PART 3 - EXECUTION**

### **3.1 INSTALLERS**

- A. Acceptable Installers:
  - 1. Meet Quality Assurance Installer Qualifications as specified in Part 1 of this specification.

### **3.2 EXAMINATION**

- A. Verification Of Conditions:
  - 1. Examine substrate and verify that it is suitable for installation of sisal wall covering.

2. Notify Architect of unsuitable conditions in writing.
  - a. Do not install over unsuitable conditions.
3. Commencement of Work by installer is considered acceptance of substrate.

### **3.3 INSTALLATION**

- A. Apply wall covering in accordance with Manufacturer's instructions, available on DVD from Owner through Architect. See Quality Assurance Installer Qualifications as specified in Part 1 of this specification.
- B. Using specified adhesive, glue continuously to surface to be covered with wall covering. Apply adhesive in accordance with Manufacturer's recommendations.
- C. If sisal installed only as wainscoting, 'ribs' may be installed vertically. Install wall covering so it extends to within 1/8 inch of floor slab.
- D. Carry sisal around corners approximately 6 inch making no outside corner cuts.

### **END OF SECTION**

# SECTION 09 9001 - COMMON PAINTING AND COATING REQUIREMENTS

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. Includes But Not Limited To:
  - 1. Common procedures and requirements for field-applied painting and coating.
- B. Related Requirements:
  - 1. Section 07 9213: 'Elastomeric Joint Sealants' for quality of Elastomeric Joint Sealants.
  - 2. Sections under 09 9000 heading 'Paints and Coatings'.
  - 3. Divisions 22 and 23: Painting of plumbing and HVAC identification, refrigerant line insulation, and duct interiors.

### 1.2 REFERENCES

- A. Definitions:
  - 1. Damage Caused By Others: Damage caused by individuals other than those under direct control of Painting Applicator (MPI(a), PDCA P1.92).
  - 2. Gloss Levels:
    - a. Specified paint gloss level shall be defined as sheen rating of applied paint, in accordance with following terms and values, unless specified otherwise for a specific paint system.

Gloss Level '1'	Traditional matte finish - flat	0 to 5 units at 60 degrees to 10 units maximum at 85 degrees.
Gloss Level '2'	High side sheen flat -'velvet-like' finish	10 units maximum at 60 degrees and 10 to 35 units at 85 degrees.
Gloss Level '3'	Traditional 'eggshell-like finish	10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees.
Gloss Level '4'	'Satin-like' finish	20 to 35 units at 60 degrees and 35 units minimum at 85 degrees.
Gloss Level '5'	Traditional semi-gloss	35 to 70 units at 60 degrees.
Gloss Level '6'	Traditional gloss	70 to 85 units at 60 degrees.
Gloss Level "7'	High gloss	More than 85 units at 60 degrees.

- 3. Properly Painted Surface:
  - a. Surface that is uniform in appearance, color, and sheen and free of foreign material, lumps, skins, runs, sags, holidays, misses, strike-through, and insufficient coverage. Surface free of drips, spatters, spills, and overspray caused by Paint Applicator. Compliance will be determined when viewed without magnification at a distance of 5 feet minimum under normal lighting conditions and from normal viewing position (MPI(a), PDCA P1.92).
- 4. Latent Damage: Damage or conditions beyond control of Painting Applicator caused by conditions not apparent at time of initial painting or coating work.

- B. Reference Standards:

1. The latest edition of the following reference standard shall govern all painting work:
  - a. MPI(a), 'Architectural Painting Specification Manual' by Master Painters Institute (MPI), as issued by local MPI Accredited Quality Assurance Association having jurisdiction.
  - b. MPI(r), 'Maintenance Repainting Manual' by Master Painters Institute (MPI), as issued by local MPI Accredited Quality Assurance Association having jurisdiction.

### 1.3 ADMINISTRATIVE REQUIREMENTS

#### A. Pre-Installation Conferences:

1. Schedule painting pre-installation conference after delivery of paint or coatings and before or at same time as application of field samples.
  - a. Coordinate pre-installation conferences of all related painting and coating Sections under 09 9000 heading 'Paints and Coatings'.
  - b. Schedule conference before preparation of control samples as specified in Sections under 09 9000 heading 'Paints and Coatings'.
  - c. Conference to be held at same time as Section 09 2900 to review gypsum board finish preparation.
2. In addition to agenda items specified in Section 01 3100, review following:
  - a. Review Quality Assurance for Approval requirements.
  - b. Review Quality Assurance Field Sample requirements.
  - c. Review Submittal requirements for compliance for MPI Approved Products.
  - d. Review Design Criteria requirements.
  - e. Review Cleaning requirements.
  - f. Review painting schedule.
  - g. Review safety issues.
3. Review additional agenda items from Sections under 09 9000 heading 'Paints and Coatings'.

### 1.4 SUBMITTALS

#### A. Action Submittals:

1. Product Data:
  - a. Include following information for each painting product, arranged in same order as in Project Manual.
    - 1) Manufacturer's cut sheet for each product indicating ingredients and percentages by weight and by volume, environmental restrictions for application, and film thicknesses and spread rates.
    - 2) Provide one (1) copy of 'MPI Approved Products List' showing compliance for each MPI product specified.
      - a) MPI Information is available from MPI Approved Products List using the following link: <http://www.paintinfo.com/mpi/approved/index.shtml>.
    - 3) Confirmation of colors selected and that each area to be painted or coated has color selected for it.
2. Samples: Provide two 4 inch by 6 inch minimum draw-down cards for each paint or coating color selected for this Project.

#### B. Informational Submittals:

1. Manufacturer Instructions:
    - a. Manufacturer's substrate preparation instructions and application instructions for each painting system used on Project.
  2. Qualification Statement:
    - a. Applicator:
      - 1) Provide Qualification documentation if requested by Architect or Owner.
- C. Closeout Submittals:
1. Include following in Operations And Maintenance Manual specified in Section 01 7800:
    - a. Record Documentation:
      - 1) Manufacturer's documentation:
        - a) Manufacturer's cut sheet for each component of each system.
        - b) Schedule showing rooms and surfaces where each system was used.

## 1.5 QUALITY ASSURANCE

- A. Regulatory Agency Sustainability Approval:
1. Conform to work place safety regulations and requirements of those authorities having jurisdiction for storage, mixing, application and disposal of all paint and related hazardous materials.
  2. Paint and painting materials shall be free of lead and mercury, and have VOC levels acceptable to local jurisdiction.
  3. Master Painters Institute (MPI) Standards:
    - a. Products: Comply with MPI standards indicated and listed in 'MPI Approved Products List'.
    - b. Preparation and Workmanship: Comply with requirements in 'MPI Architectural Painting Specification Manual' for products and coatings indicated.
- B. Qualifications:
1. Applicator: Requirements of Section 01 4301 applies, but not limited to following:
    - a. Minimum five (5) years' experience in painting installations.
    - b. Minimum five (5) satisfactorily completed projects of comparable quality, similar size, and complexity in past three (3) years before bidding.
    - c. Maintain qualified crew of painters throughout duration of the Work.
    - d. Upon request, submit documentation.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery And Acceptance Requirements:
1. Deliver specified products in sealed, original containers with Manufacturer's original labels intact on each container.
  2. Deliver amount of materials necessary to meet Project requirements in single shipment.
- B. Storage And Handling Requirements:

1. Store materials in single place.
2. Keep storage area clean and rectify any damage to area at completion of work of this Section.
3. Maintain storage area at 55 deg F minimum.

## 1.7 FIELD CONDITIONS

### A. Ambient Conditions:

1. Perform painting operations at temperature and humidity conditions recommended by Manufacturer for each operation and for each product for both interior and exterior work.
2. Apply painting systems at lighting level of 540 Lux (50 foot candles) minimum on surfaces to be painted.
  - a. Inspection of painting work shall take place under same lighting conditions as application.
  - b. If painting and coating work is applied under temporary lighting, deficiencies discovered upon installation of permanent lighting will be considered latent damage as defined in MPI Manual, PDCA P1-92.

## PART 2 - PRODUCTS

### 2.1 SYSTEMS

#### A. Performance:

##### 1. Design Criteria:

- a. Provide materials for use within each coating system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
- b. All materials, preparation and workmanship shall conform to requirements of 'Architectural Painting Specification Manual' by Master Painters Institute (MPI).
- c. All paint manufacturers and products used shall be as listed under Approved Product List section of MPI Painting Manual.
- d. Provide Premium Grade systems (2 top coats) as defined in MPI Architectural Painting Specification Manual, except as otherwise indicated.
- e. Where specified paint system does not have Premium Grade, provide Budget Grade.
- f. Provide products of same manufacturer for each coat in coating system.

#### B. Materials:

1. Materials used for any painting system shall be from single manufacturer unless approved otherwise in writing by painting system manufacturers and by Architect. Include manufacturer approvals in Product Data submittal.
2. Linseed oil, shellac, turpentine, and other painting materials shall be pure, be compatible with other coating materials, bear identifying labels on containers, and be of highest quality of an approved manufacturer listed in MPI manuals. Tinting color shall be best grade of type recommended by Manufacturer of paint or stain used on Project.

## PART 3 - EXECUTION

### 3.1 APPLICATORS

#### A. Approved Applicators:

1. Meet Quality Assurance Applicator Qualifications as specified in Part 1 of this specification.



### 3.2 EXAMINATION

#### A. Verification Of Conditions:

1. Directing applicator to begin painting and coating work will indicate that substrates to receive painting and coating materials have been previously inspected as part of work of other Sections and are complete and ready for application of painting and coating systems as specified in those Sections.

#### B. Pre-Installation Testing:

1. Before beginning work of this Section, examine, and test surfaces to be painted or coated for adhesion of painting and coating systems.
2. Report in writing to Architect of conditions that will adversely affect adhesion of painting and coating work.
3. Do not apply painting and coating systems until party responsible for adverse condition has corrected adverse condition.

#### C. Evaluation And Assessment:

1. Report defects in substrates that become apparent after application of primer or first finish coat to Architect in writing and do not proceed with further work on defective substrate until such defects are corrected by party responsible for defect.

### 3.3 PREPARATION

#### A. Protection Of In-Place Conditions:

1. Protect other finish work and adjacent materials during painting. Do not splatter, drip, or paint surfaces not intended to be painted. These items will not be spelled out in detail but pay special attention to the following:
  - a. Do not paint finish copper, bronze, chromium plate, nickel, stainless steel, anodized aluminum, or monel metal except as explicitly specified.
  - b. Keep cones of ceiling speakers completely free of paint.
  - c. On existing work where ceiling is to be painted, speakers and grilles are already installed, and ceiling color is not being changed, mask off metal grilles installed on ceiling speakers. If ceiling color is being changed, remove metal grilles and paint, and mask off ceiling speakers.

#### B. Surface Preparation:

1. Prepare surfaces in accordance with MPI requirements and requirements of Manufacturer for each painting system specified, unless instructed differently in Contract Documents. Bring conflicts to attention of Architect in writing.
2. Fill minor holes and cracks in wood surfaces to receive paint or stain.
3. Surfaces to be painted shall be clean and free of loose dirt. Clean and dust surfaces before painting or finishing.
4. Do no exterior painting while surface is damp, unless recommended by Manufacturer, nor during rainy or frosty weather. Interior surfaces shall be dry before painting. Moisture content of materials to be painted shall be within tolerances acceptable to Paint Manufacturer.
5. Sand woodwork smooth in direction of grain leaving no sanding marks. Clean surfaces before proceeding with stain or first coat application.

### 3.4 APPLICATION

#### A. Interface With Other Work:

1. Coordinate with other trades for materials and systems that require painting before installation.

2. Schedule painting and coating work to begin when work upon which painting and coating work is dependent has been completed. Schedule installation of pre-finished and non-painted items, which are to be installed on painted surfaces, after application of final finishes.
- B. Paint or finish complete all surfaces to be painted or coated as described in Contract Documents, including but not limited to following items.
1. Finish casework and wood trims that are specified to be installed under Section 06 2001 and that are not called out to be factory-or shop-finished. Back prime wood elements to be installed against concrete or masonry or that may be subjected to moisture.
  2. Paint mechanical, electrical, and audio/visual items that require field painting as indicated in Contract Documents. These include but are not limited to:
    - a. Mechanical flues and pipes penetrating roof.
    - b. Metal protective structures for refrigerant lines.
  3. Paint inside of chases in occupied spaces flat black for 18 inches or beyond sightline, whichever is greater.
- C. Apply sealant in gaps 3/16 inch and smaller between two substrates that are both to be painted or coated. Sealants in other gaps furnished and installed under Section 07 9213.
- D. On wood to receive a transparent finish, putty nail holes in wood after application of stain using natural colored type to match wood stain color. Bring putty flush with adjoining surfaces.
- E. In multiple coat paint work, tint each succeeding coat with slightly lighter color, but approximating shade of final coat, so it is possible to check application of specified number of coats. Tint final coat to required color.
- F. Spread materials smoothly and evenly. Apply coats to not less than wet and dry film thicknesses and at spreading rates for specified products as recommended by Manufacturer.
- G. Touch up suction spots after application of first finish coat.
- H. Paint shall be thoroughly dry and surfaces clean before applying succeeding coats.
- I. Use fine sandpaper between coats as necessary to produce even, smooth surfaces.
- J. Make edges of paint adjoining other materials or colors clean, sharp, and without overlapping.
- K. Finished work shall be a 'Properly Painted Surface' as defined in this Section.

### **3.5 FIELD QUALITY CONTROL**

- A. Non-Conforming Work:
1. Correct deficiencies in workmanship as required to leave surfaces in conformance with 'Properly Painted Surface,' as defined in this Section.
  2. Correction of 'Latent Damage' and 'Damage Caused By Others,' as defined in this Section, is not included in work of this Section.

### **3.6 CLEANING**

- A. General:
1. As work proceeds and upon completion of work of any painting Section, remove paint spots from floors, walls, glass, or other surfaces and leave work clean, orderly, and in acceptable condition.

B. Waste Management:

1. Remove rags and waste used in painting operations from building each night. Take every precaution to avoid danger of fire.
2. Paint, stain and wood preservative finishes and related materials (thinners, solvents, caulking, empty paint cans, cleaning rags, etc.) shall be disposed of subject to regulations of applicable authorities having jurisdiction.
3. Remove debris caused by work of paint Sections from premises and properly dispose.
4. Retain cleaning water and filter out and properly dispose of sediments.

**END OF SECTION**

## SECTION 09 9123 - INTERIOR PAINTED GYPSUM BOARD

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Includes But Not Limited To:
  - 1. Preparing, priming, and finish painting new interior gypsum board and plaster surfaces as described in Contract Documents.
  - 2. Preparing and painting existing interior gypsum board and plaster surfaces as described in Contract Documents.
- B. Related Requirements:
  - 1. Section 09 2900: 'Gypsum Board' for:
    - a. Priming new interior gypsum board surfaces to receive sheet wall covering system or texturing.
  - 2. Section 09 9001: 'Common Painting And Coating Requirements':
    - a. Pre-installation conference for Sections under 09 9000 heading 'Paints and Coatings'.
  - 3. Section 09 9413: 'Interior Textured Finishing' for textured finishes.

#### 1.2 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conferences:
  - 1. Participate in pre-installation conference as specified in Section 09 2900.
    - a. In addition to agenda items specified in Section 01 3100 and Section 09 2900, review following:
      - 1) Review finish level requirements of gypsum wallboard as specified in Section 09 2900.
  - 2. Participate in pre-installation conference as specified in Section 09 9001.

### PART 2 - PRODUCTS

#### 2.1 SYSTEM

- A. Manufacturers:
  - 1. Category Four Approved Manufacturers and Products. See Section 01 6200 for definitions of Categories.
    - a. Products listed in edition of MPI Approved Product List current at time of bidding and later are approved, providing they meet VOC requirements in force where Project is located.
- B. Description:
  - 1. New Surfaces: Use MPI(a) INT 9.2B Latex Finish system.
  - 2. Previously Finished Work: Use MPI(r) RIN 9.2B Latex Finish system.
- C. Performance:
  - 1. Design Criteria:

- a. New Surfaces: MPI Premium Grade finish requirements.
- b. Sound Existing Surfaces: MPI Custom Grade requirements.
- c. Gloss / Sheen Required:
  - 1) Match existing.

D. Materials:

- 1. Primers:
  - a. MPI Product 50, 'Primer Sealer, Latex, Interior'.
- 2. Finish Coats:
  - a. MPI Product 141, 'Latex, Interior, High Performance Architectural, Semi-Gloss (MPI Gloss Level 5)'.

### **PART 3 - EXECUTION**

#### **3.1 APPLICATION**

- A. General: See appropriate paragraphs of Section 09 9001.
- B. New Surfaces:
  - 1. Primer: Apply primer to be covered with other paint coats with roller only, or with spray gun and back-rolled.
- C. Existing Painted Surfaces:
  - 1. Remove deteriorated existing paint down to sound substrate by scraping or sanding. Feather edges of existing paint by sanding to be smooth with adjacent surfaces.
  - 2. Clean surface with mild soap and water, or with tri-sodium phosphate (TSP). Wash surfaces that have been defaced with marking pens, crayons, lipstick, etc, with solvent recommended by Paint Manufacturer. Spot prime such surfaces.
  - 3. Spackle and tape cracks. Sand to smooth finish and spot prime.
  - 4. Sand or chemically etch existing painted surface as required to prepare surface to accept new paint.
  - 5. Re-clean surface.
  - 6. Apply primer coat.
  - 7. Apply finish coats.

#### **END OF SECTION**

## SECTION 09 9324 - INTERIOR CLEAR-FINISHED HARDWOOD

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Includes But Not Limited To:
  - 1. Preparing and finishing of new interior clear finished hardwood as described in Contract Documents.
- B. Related Requirements:
  - 1. Section 06 2210: 'Miscellaneous Wood Trim'.
  - 2. Section 06 4512: 'Architectural Woodwork Wood Trim'.
  - 3. Section 08 1429: 'Interior Flush Wood Doors'.
  - 4. Section 09 9001: 'Common Painting And Coating Requirements':
    - a. Pre-installation conference for Sections under 09 9000 heading 'Paints and Coatings'.

#### 1.2 REFERENCES

- A. Reference Standards:
  - 1. Kitchen Cabinet Manufacturers Association / American National Standards Institute:
    - a. ANSI/KCMA A161.1-2000 (R2005) 23-Jan-2001 'Recommended Performance and Construction Standards for Kitchen and Vanity Cabinets.'

#### 1.3 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conferences:
  - 1. Participate in pre-installation conference as specified in Section 09 9001.
  - 2. In addition to agenda items specified in Section 01 3100 and Section 09 9001, review following:
    - a. Review control sample(s).

#### 1.4 SUBMITTALS

- A. Action Submittals:
  - 1. Samples:
    - a. Interior Hardwood for Transparent Finish:
      - 1) Requirements for samples are specified in Related Requirement Sections listed above.
    - b. Design Criteria:
      - 1) Sample will be used as performance standard for evaluating finish provided.
- B. Informational Submittals:
  - 1. Test And Evaluation Reports:

- a. Before beginning finish work, submit Finish Manufacturer's literature or certification that finish material meets requirements of ANSI / KCMA A161.1.

## **PART 2 - PRODUCTS**

### **2.1 SYSTEM**

#### **A. Materials:**

##### **1. Design Criteria:**

- a. See appropriate paragraphs of Section 09 9001.

##### **2. Stain: MPI 90, 'Stain, Semi-Transparent, for Interior Wood'.**

##### **3. Clear Finish Coats:**

##### **a. Field Finished:**

###### **1) Chemcraft International Inc:**

- a) First, Second, And Third Coats: 20 Sheen Opticlear Pre-Catalyzed Lacquer.

###### **2) ICI Dulux / Trinity:**

- a) First Coat: ICE Vinyl Sanding Sealer.
- b) Second And Third Coats: ICI Pre-Catalyzed Lacquer.

###### **3) Lilly / Valspar:**

- a) First, Second, And Third Coats: 20 Sheen Pre-Catalyzed Lacquer 587E208.

###### **4) Sherwin-Williams:**

- a) First Coat: T67F3 Vinyl Sealer.
- b) Second And Third Coats: T77F38 Sherwood Pre-Catalyzed Lacquer DRE.

- b. Mill Finished: Architectural Woodwork finished in a mill may use one (1) coat of Vinyl Sealer and two (2) coats of Conversion Varnish or three (3) coats of Conversion Varnish from one (1) of the approved Finish Manufacturers, as recommended by Finish Manufacturer.

- c. Products meeting testing requirements for finishes of ANSI / KCMA A161.1 may be used upon approval of submission by Architect before use. See Section 01 6200.

##### **4. Color:**

##### **a. Design Criteria:**

- 1) Finish to match Owner selected sample from project.

## **PART 3 - EXECUTION**

### **3.1 APPLICATION**

#### **A. General:**

- 1. See appropriate paragraphs of Section 09 9001.

2. Sand entire exposed surface of item to be finished lightly with 120 to 150 non-steared sandpaper and clean before applying dye or stain.
3. Apply stain in accordance with Manufacturer's recommendations and as necessary to attain correct color.
4. Scuff sand with 220 non-steared sandpaper between application of application stain and first finish coat.
5. If wood is finished before installation, finish cut ends and other unfinished, exposed surfaces same as previously finished surfaces after installation of wood.

B. Where back-priming is required, apply one coat of finish material.

**END OF SECTION**





## LOGAN YSA CORRIDOR FINISHES

### **DIVISION 22 - PLUMBING:**

22 4700 Drinking Fountains And Water Coolers

## SECTION 22 4700 – DRINKING FOUNTAINS AND WATER COOLERS

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Includes But Not Limited To:
  - 1. Furnish and install drinking water cooling system units as described in Contract Documents.
- B. Related Requirements:
  - 1. Section 22 0501: 'Common Plumbing Requirements'.
  - 2. Section 22 1116: 'Domestic Water Piping'.

#### 1.2 REFERENCES

- A. Reference Standard:
  - 1. American National Standards Institute / International Code Council:
    - a. ANSI/ICC A117.1-2017, 'Standard for Accessible and Usable Buildings and Facilities'.
  - 2. Canadian Standards Association (CA):
    - a. CSA C22.2 No. 120-13 (R2018), 'Refrigeration Equipment'.
  - 3. NSF International Standard / American National Standards Institute:
    - a. Bottle Filling Station:
      - 1) NSF/ANSI 42-2017, 'Drinking Water Treatments Units – Aesthetic Effects'.
      - 2) NSF/ANSI 53-2017, 'Drinking Water Treatments Units – Health Effects'.
    - b. Water Cooler:
      - 1) NSF/ANSI 61-2017, 'Drinking Water System Components - Health Effects'.
      - 2) NSF/ANSI 372-2016, 'Drinking Water System Components - Lead Content'.
  - 4. Underwriters Laboratories (UL):
  - 5. UL 399: 'Drinking-Water Coolers'.

#### 1.3 SUBMITTALS

- A. Closeout Submittals:
  - 1. Warranty Documentation:
    - a. Provide Manufacturer Warranty.

#### 1.4 QUALITY ASSURANCE

- A. Regulatory Agency Sustainability Approvals:
  - 1. Handicap Accessible Products to meet ANSI/ICC A117 Accessible requirements.

2. Meet NSF International Standards for materials or products that come into contact with drinking water, drinking water treatment chemicals, or both for chemical contaminants and impurities that are indirectly imparted to drinking water from products, components, and materials used in drinking water systems.
3. California only: California Assembly Bill 1953 (AB1953) Compliant for Lead Free.

## 1.5 WARRANTY

- A. Manufacturer standard limited warranty on refrigeration system of unit.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURED UNITS

- A. Manufacturers:

1. Manufacturer Contact List:

- a. Elkay Manufacturing Co, Oak Brook, IL [www.elkay.com](http://www.elkay.com).
- b. Halsey Taylor, Oak Brook, IL [www.halseytaylor.com](http://www.halseytaylor.com).
- c. Murdock Manufacturing (Acorn), City of Industry, CA [www.murdockmfg.com](http://www.murdockmfg.com).
- d. Oasis, Tri Palm International, Columbus OH [www.oasiswatercoolers.com](http://www.oasiswatercoolers.com).

- B. Design Criteria:

1. All drinking water products, components, and materials above and below grade used in drinking water systems must meet NSF International Standards for Lead Free.
2. Interior exposed pipe, valves, and fixture trim shall be chrome plated.

- C. Materials:

1. Handicap Accessible Bi-Level Cooler:

- a. Design Criteria:

- 1) Vandal proof operating bar on front and both sides.
- 2) 8 GPH (30.3 LPH) water at 50 deg F (10 deg C) water cooled from 80°F (26.7°C) inlet water and 90°F (32.2°C) ambient per ASHRAE testing.
- 3) 115-120 V, 60 Hz, single phase.
- 4) Flexible bubbler.
- 5) Build-In strainer.
- 6) Meets state and federal requirements for both children or adults as defined by the Americans with Disabilities Act.

- b. Category Four Approved Products. See Section 01 6200 for definitions of Categories:

- 1) Elkay: Model EZSTL8LC.
- 2) Halsey Taylor: Model HAC8FSBL-Q-ADA.
- 3) Murdock Manufacturing: Model A172408B-UBL.
- 4) Oasis: Model PG8ACSL.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Install fixtures with accessible stop or control valve.
- B. Mounting:

1. General:
  - a. Coordinate location of fountain with location and height of electrical outlet to ensure concealment of outlet by fountain.
  - b. Anchor bottom of fountain to wall.
  - c. Install 3/8 inch (9.5 mm) IPS union connection and Chicago No. 441 stop to building supply line.
  - d. Install 1-1/4 inch (32 mm) IPS slip cast brass 'P' trap. Install trap so it is concealed.
  
2. Accessible Drinking Fountains:
  - a. Spout outlets of wheelchair accessible drinking fountains shall be 36 inches (915 mm) maximum above floor.
  - b. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) and 43 inches (1090 mm) maximum above floor.

**END OF SECTION**