Metaline Falls Branch Library BID SET

PROJECT MANUAL VOLUME 1

September 30, 2022

BUILDINGWORK

architecture design preservation

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END OF SECTION

PART 1 - GENERAL

1.1 PROJECT INFORMATION

A . Notice to Bidders: Qualified bidders may submit bids for project as described in this Document. Submit bids according to the Instructions to Bidders.

1. Regulatory Requirements: Applicable laws and regulations regarding bidding of state and local government funded projects shall govern submittal, opening, and award of bids.

B . Project Identification: Metaline Falls Branch Library Tenant Improvement

1. Project Location: 302 Park St, Metaline Falls, WA 99153

C . Owner: Pend Oreille County Library District

D . Architect: BuildingWork LLC.

1. Kate Weiland, AIA kate@buildingwork.design 206-775-8672

E . Project Description:

1. The Project consists of furnishing all labor, materials and other incidentals for the remodel of an existing 2,125 square foot public library located in the Historic Cutter Theater building in Metaline Falls Washington, as shown in the Contract Documents for this project.
2. Project cost is estimated to be $68,000.

F . Construction Contract: Bids will be received for the following Work:

1. General Contract (all trades).

1.2 BID SUBMITTAL AND OPENING

A . Owner will receive sealed lump sum bids until the bid time and date at the location given below. Owner will consider bids prepared in compliance with the Instructions to Bidders issued by Owner, and delivered as follows:

1. Bid Date: November 10, 2022
2. Bids Due: 3:00 p.m. local time.
3. Location: bids to be emailed to: director@POCLD.org

B . Bids will be thereafter publicly opened and read aloud. Bidders will be able to virtually attend the bid opening.

1. Bid Opening Zoom Link: https://us02web.zoom.us/j/9245860032?pwd=V2VGNEFuZW5WWXYyMVZMdWkwdjljUT09

a. Meeting ID: 924 586 0032

b. Passcode: 804464

1.3 BID SECURITY

A . Bid security shall be submitted with each bid in the amount of five (5) percent of the bid amount. No bids may be withdrawn for a period of 60 days after opening of bids. Owner reserves the right to reject any and all bids and to waive informalities and irregularities.

1.4 PREBID LOGISTICS

A . Prebid Meeting: See Document 002513 "Prebid Meetings."

B. Bidders' Questions: Architect will provide written responses bidders' questions through Addenda. Submit questions via email to kate@buildingwork.design The deadline to receive bidder questions is Friday November 4, 2022, at 5:00 pm

1.5 DOCUMENTS

A . Online Procurement and Contracting Documents: Obtain access after October 7, 2022 by contacting Builder's Exchange of Washington, www.bxwa.com or through the Pend Oreille County Library Website at https://pocld.org/ Online access will be provided to all registered bidders and suppliers.

1.6 TIME OF COMPLETION AND LIQUIDATED DAMAGES

A . Planned project schedule is as follows:

1. Contracting complete by 11/29/22

2. Contractor submittals and procurement: start 11/30/22

3. Contractor access to site for construction: 1/26/22-3/9/23

a. The library will be closed to the public during this time

4. Date of Substantial Completion: 3/9/22

5. Work is subject to liquidated damages.

1.7 BIDDER'S QUALIFICATIONS

A . Bidders must be properly licensed under the laws governing their respective trades and be able to obtain insurance and bonds required for the Work. A Performance Bond, separate Labor and Material Payment Bond, and Insurance in a form acceptable to Owner will be required of the successful Bidder.

B . Bidders are required to have successfully completed at least four projects of similar size and complexity to this project, each with a contract amount of at least $50,000 within the last five years. The successful Bidder will be required to submit a list of a minimum of 4 construction contracts $50,000 and above that the firm has completed within the past five years, giving the name of the project; name address, and telephone numbers of Owner and Architect representatives; final contract amount; date of completion; and percentage of the cost of the work performed by the firm's own forces. This information will be used for reference reviews.

C . Bidders are required to staff the Project with a project manager and a superintendent that have each served as the project manager/superintendent of a minimum of two projects of similar type, size, and complexity to this project, and successfully completed those projects within the last ten years. The successful Bidder will be required to submit the resumes and references for the proposed project manager and superintendent demonstrating that they meet this experience requirement.

D . The Owner will check references by contacting owners and architects of the Bidder's previous projects regarding the Bidder's performance and that of key staff. A reference score sheet will be utilized and the rating of the successful Bidder shall be satisfactory or better on a five-category scale with satisfactory at mid-scale.

1.8 NOTIFICATION

A . This Advertisement for Bids document is issued by Pend Oreille County Library District.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

PART 1 - GENERAL

1.1 INSTRUCTIONS TO BIDDERS

A . AIA Document A701, "Instructions to Bidders," is hereby incorporated into the Procurement and Contracting Requirements by reference.

1. A copy of AIA Document A701, "Instructions to Bidders," is bound in this Project Manual.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

PART 1 - GENERAL

1.1 INSTRUCTIONS TO BIDDERS

A . Instructions to Bidders for Project consist of the following:

1. AIA Document A701, "Instructions to Bidders a copy of which is bound in this Project Manual.
2. The following Supplementary Instructions to Bidders that modify and add to the requirements of the Instructions to Bidders.

1.2 SUPPLEMENTARY INSTRUCTIONS TO BIDDERS, GENERAL

A . The following supplements modify AIA Document A701, "Instructions to Bidders." Where a portion of the Instructions to Bidders is modified or deleted by these Supplementary Instructions to Bidders, unaltered portions of the Instructions to Bidders shall remain in effect.

1.3 ARTICLE 1 - DEFINITIONS

A . <Insert definitions>.

1.4 ARTICLE 2 - BIDDER'S REPRESENTATIONS

A . Add Section 2.1.3.1:

1. 2.1.3.1 - The Bidder has investigated all required fees, permits, and regulatory requirements of authorities having jurisdiction and has properly included in the submitted bid the cost of such fees, permits, and requirements not otherwise indicated as provided by Owner.

B . Add Section 2.1.5:

1. 2.1.5 - The Bidder is a properly licensed Contractor according to the laws and regulations of Metaline Falls Washington and meets qualifications indicated in the Procurement and Contracting Documents.

C . Add Section 2.1.6:

1. 2.1.6 - The Bidder has incorporated into the Bid adequate sums for work performed by installers whose qualifications meet those indicated in the Procurement and Contracting Documents.

1.5 ARTICLE 3 - BIDDING DOCUMENTS

A . 3.2 - Interpretation or Correction of Procurement and Contracting Documents:

1. Add Section 3.2.2.1:

a. 3.2.2.1 - Submit Bidder's Requests for Interpretation via email to the architect at kate@buildingwork.design

B . 3.4 - Addenda:

1. Delete Section 3.4.3 and replace with the following:

   a. 3.4.3 - Addenda may be issued at any time prior to the receipt of bids.

2. Add Section 3.4.4.1:

   a. 3.4.4.1 - Owner may elect to waive the requirement for acknowledging receipt of 3.4.4 Addenda as follows:

      1) 3.4.4.1.1 - Information received as part of the Bid indicates that the Bid, as submitted, reflects modifications to the Procurement and Contracting Documents included in an unacknowledged Addendum.

      2) 3.4.4.1.2 - Modifications to the Procurement and Contracting Documents in an unacknowledged Addendum do not, in the opinion of Owner, affect the Contract Sum or Contract Time.

1.6 ARTICLE 4 - BIDDING PROCEDURES

A . 4.1 - Preparation of Bids:

1. Add Section 4.1.1.1:

   a. 4.1.1.1 - Printable electronic Bid Forms and related documents are available from Owner

2. Add Section 4.1.8:

   a. 4.1.8 - The Bid shall include unit prices when called for by the Procurement and Contracting Documents. Owner may elect to consider unit prices in the determination of award. Unit prices will be incorporated into the Contract.

3. Add Section 4.1.9:

   a. 4.1.9 - Owner may elect to disqualify a bid due to failure to submit a bid in the form requested, failure to bid requested alternates or unit prices, failure to complete entries in all blanks in the Bid Form, or inclusion by the Bidder of any alternates, conditions, limitations or provisions not called for.

4. Add Section 4.1.10:

   a. 4.1.10 - Bids shall include sales and use taxes. Contractors shall show separately with each monthly payment application the sales and use taxes paid by them and their subcontractors in the form indicated. Reimbursement of sales and use taxes, if any, shall be applied for by Owner for the sole benefit of Owner.

B . 4.3 - Submission of Bids:

1. Add Section 4.3.1.2:

   a. 4.3.1.2 - Include Bidder's Contractor License Number applicable in Project jurisdiction on the face of the sealed bid envelope.

C . 4.4 - Modification or Withdrawal of Bids:

1. Add the following sections to 4.4.2:

a. 4.4.2.1 - Such modifications to or withdrawal of a bid may only be made by persons authorized to act on behalf of the Bidder. Authorized persons are those so identified in the Bidder's corporate bylaws, specifically empowered by the Bidder's charter or similar legally binding document acceptable to Owner, or by a power of attorney, signed and dated, describing the scope and limitations of the power of attorney. Make such documentation available to Owner at the time of seeking modifications or withdrawal of the Bid.

b. 4.4.2.2 - Owner will consider modifications to a bid written on the sealed bid envelope by authorized persons when such modifications comply with the following: the modification is indicated by a percent or stated amount to be added to or deducted from the Bid; the amount of the Bid itself is not made known by the modification; a signature of the authorized person, along with the time and date of the modification, accompanies the modification. Completion of an unsealed bid form, awaiting final figures from the Bidder, does not require power of attorney due to the evidenced authorization of the Bidder implied by the circumstance of the completion and delivery of the Bid.

D . 4.5 - Break-Out Pricing Bid Supplement:

1. Add Section 4.5:

a. 4.5 - Provide detailed cost breakdowns as requested on bid forms no later than two business days following Architect's request.

E . 4.6 - Subcontractors, Suppliers, and Manufacturers List Bid Supplement:

1. Add Section 4.6:

a. 4.6 - Provide list of major subcontractors, suppliers, and manufacturers furnishing or installing products[on forms provided] no later than [two] business days following Architect's request. Include those subcontractors, suppliers, and manufacturers providing work totaling [three] percent or more of the Bid amount. Do not change subcontractors, suppliers, and manufacturers from those submitted without approval of Architect.

1.7 ARTICLE 5 - CONSIDERATION OF BIDS

A . 5.2 - Rejection of Bids:

1. Add Section 5.2.1:

a. 5.2.1 - Owner reserves the right to reject a bid based on Owner's and Architect's evaluation of qualification information submitted following opening of bids. Owner's evaluation of the Bidder's qualifications will include: status of licensure and record of compliance with licensing requirements, record of quality of completed work, record of Project completion and ability to complete, record of financial management including financial resources available to complete Project and record of timely payment of obligations, record of Project site management including compliance with requirements of authorities having jurisdiction, record of and number of current claims and disputes and the status of their resolution, and qualifications of the Bidder's proposed Project staff and proposed subcontractors.

1.8 ARTICLE 6 - POSTBID INFORMATION

A . 6.1 - Contractor's Qualification Statement:

1. Add Section 6.1.1:

a. 6.1.1 - Submit Contractor's Qualification Statement no later than two business days following Architect's request.

B . 6.3 - Submittals:

1. Add Section 6.3.1.4:

a. 6.3.1.4 - Submit information requested in Sections 6.3.1.1, 6.3.1.2, and 6.3.1.3 no later than two business days following Architect's request.

1.9 ARTICLE 7 - PERFORMANCE BOND AND PAYMENT BOND

A . 7.1 - Bond Requirements:

1. Add Section 7.1.1.1:

a. 7.1.1.1 - Both a Performance Bond and a Payment Bond will be required, each in an amount equal to 100 percent of the Contract Sum.

B . 7.2 - Time of Delivery and Form of Bonds:

1. Delete the first sentence of Section 7.2.1 and insert the following:

a. The Bidder shall deliver the required bonds to Owner no later than 10 days after the date of Notice of Intent to Award and no later than the date of execution of the Contract, whichever occurs first. Owner may deem the failure of the Bidder to deliver required bonds within the period of time allowed a default.

2. Delete Section 7.2.3 and insert the following:

a. 7.2.3 - Bonds shall be executed and be in force on the date of the execution of the Contract.

1.10 ARTICLE 8 - FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR

A . <Insert supplementary text>.

1.11 ARTICLE 9 - EXECUTION OF THE CONTRACT

A . Add Article 9:

1. 9.1.1 - Subsequent to the Notice of Intent to Award, and within [10] ten days after the prescribed Form of Agreement is presented to the Awardee for signature, the Awardee shall execute and deliver the Agreement to Owner through [Architect] [Construction Manager], in such number of counterparts as Owner may require.

2. 9.1.2 - Owner may deem as a default the failure of the Awardee to execute the Contract and to supply the required bonds when the Agreement is presented for signature within the period of time allowed.

3. 9.1.3 - Unless otherwise indicated in the Procurement and Contracting Documents or the executed Agreement, the date of commencement of the Work shall be the date of the executed Agreement[or the date that the Bidder is obligated to deliver the executed Agreement and required bonds to Owner].

4. 9.1.4 - In the event of a default, Owner may declare the amount of the Bid security forfeited and elect to either award the Contract to the next responsible bidder or re-advertise for bids.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

PART 1 - GENERAL

1.1 PREBID MEETING

A . The Library will conduct a Prebid meeting as indicated below:

1. Meeting Date: October 19, 2022
2. Meeting Time: 1:00pm PST
3. This will be available in-person or via a virtual meeting held via a Zoom video call.
4. The Zoom weblink is: https://us02web.zoom.us/j/9245860032?pwd=V2VGNEFuZW5WWXYyMVZMdWkwdjlj UT09
   a. Meeting ID: 924 586 0032
   b. Passcode: 804464Attendance:
5. Prime Bidders: Attendance at Prebid meeting is hightly recommended.
6. Subcontractors: Attendance at Prebid meeting is recommended.
7. Interested parties may visit the library during regular business hours to review the existing site conditions. Please check in with library staff upon arrival. Current library hours can be found on the POCLD website:

   https://pocld.org/metalines-community-library/

B . Bidder Questions: Bidder's may submit questions in advance of the Prebid meeting, and questions may be asked during the Prebid meeting. Responses to Bidder questions will be provided in writing vis Addenda.

C . Agenda: Prebid meeting agenda will include review of topics that may affect proper preparation and submittal of bids, including the following:

1. Procurement and Contracting Requirements:
   a. Advertisement for Bids.
   b. Instructions to Bidders.
   c. Bidder Qualifications.
   d. Bonding.
   e. Insurance.
   f. Bid Security.
   g. Bid Form and Attachments.
   h. Bid Submittal Requirements.
   i. Bid Submittal Checklist.
   j. Notice of Award.
2. Communication during Bidding Period:
   a. Obtaining documents.

b. Bidder's Requests for Information.

c. Bidder's Substitution Request/Prior Approval Request.

d. Addenda.

3. Contracting Requirements:

a. Agreement.

b. The General Conditions.

c. The Supplementary Conditions.

d. Other Owner requirements.

4. Construction Documents:

a. Scopes of Work.

b. Temporary Facilities.

c. Use of Site.

d. Work Restrictions.

e. Alternates, Allowances, and Unit Prices.

f. Substitutions following award.

5. Separate Contracts:

a. Work by Owner.

b. Work of Other Contracts.

6. Schedule:

a. Project Schedule.

b. Contract Time.

c. Liquidated Damages.

d. Other Bidder Questions.

7. Site/facility visit or walkthrough.

8. Post-Meeting Addendum.

D . Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes to attendees[and others known by the issuing office to have received a complete set of Procurement and Contracting Documents]. Minutes of meeting are issued as Available Information and do not constitute a modification to the Procurement and Contracting Documents. Modifications to the Procurement and Contracting Documents are issued by written Addendum only.

1. Sign-in Sheet: Minutes will include list of meeting attendees.

2. List of Planholders: Minutes will include list of planholders.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

PART 1 - GENERAL

1.1 DEFINITIONS

A . Procurement Substitution Requests: Requests for changes in products, materials, equipment, and methods of construction from those indicated in the Procurement and Contracting Documents, submitted prior to receipt of bids.

B . Substitution Requests: Requests for changes in products, materials, equipment, and methods of construction from those indicated in the Contract Documents, submitted following Contract award. See Section 012500 "Substitution Procedures" for conditions under which Substitution requests will be considered following Contract award.

1.2 QUALITY ASSURANCE

A . Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.3 PROCUREMENT SUBSTITUTIONS

A . Procurement Substitutions, General: By submitting a bid, the Bidder represents that its bid is based on materials and equipment described in the Procurement and Contracting Documents, including Addenda. Bidders are encouraged to request approval of qualifying substitute materials and equipment when the Specifications Sections list materials and equipment by product or manufacturer name.

B . Procurement Substitution Requests will be received and considered by Owner when the following conditions are satisfied, as determined by Architect; otherwise requests will be returned without action:

1. Extensive revisions to the Contract Documents are not required.
2. Proposed changes are in keeping with the general intent of the Contract Documents, including the level of quality of the Work represented by the requirements therein.
3. The request is fully documented and properly submitted.

1.4 SUBMITTALS

A . Procurement Substitution Request: Submit to Architect.

B . Procurement Substitution Request must be made in writing by general contractor only in compliance with the following requirements:

1. Requests for substitution of materials and equipment will be considered if received no later than 10 days prior to date of bid opening.
2. Submittal Format: Submit electronic copies of each written Procurement Substitution Request, using form bound in Project Manual or CSI Substitution Request Form 1.5C.
3. Submittal Format: Submit Procurement Substitution Request via email to the Architect.
   a. Identify the product or the fabrication or installation method to be replaced in each request. Include related Specifications Sections and drawing numbers.

b. Provide complete documentation on both the product specified and the proposed substitute, including the following information as appropriate:

1) Point-by-point comparison of specified and proposed substitute product data, fabrication drawings, and installation procedures.

2) Copies of current, independent third-party test data of salient product or system characteristics.

3) Samples where applicable or when requested by Architect.

4) Detailed comparison of significant qualities of the proposed substitute with those of the Work specified. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.

5) Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.

6) Research reports, where applicable, evidencing compliance with building code in effect for Project, from [ICC-ES] <Insert applicable code organization>.

7) Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by Owner and separate contractors, which will become necessary to accommodate the proposed substitute.

c. Provide certification by manufacturer that the substitute proposed is equal to or superior to that required by the Procurement and Contracting Documents, and that its in-place performance will be equal to or superior to the product or equipment specified in the application indicated.

d. Bidder, in submitting the Procurement Substitution Request, waives the right to additional payment or an extension of Contract Time because of the failure of the substitute to perform as represented in the Procurement Substitution Request.

C . Architect's Action:

1. Architect may request additional information or documentation necessary for evaluation of the Procurement Substitution Request. Architect will notify all bidders of acceptance of the proposed substitute by means of an Addendum to the Procurement and Contracting Documents.

D . Architect's approval of a substitute during bidding does not relieve Contractor of the responsibility to submit required shop drawings and to comply with all other requirements of the Contract Documents.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

PART 1 - GENERAL

1.1 EXISTING CONDITION INFORMATION

A . This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of the Bidders' own investigations. They are made available for Bidders' convenience and information, but are not a warranty of existing conditions. This Document and its attachments are not part of the Contract Documents.

B . Survey information that includes information on existing conditions is available as part of Drawings.

C . Plan from the original conversion of the space to a public library, attached in this section.

D . Related Requirements:

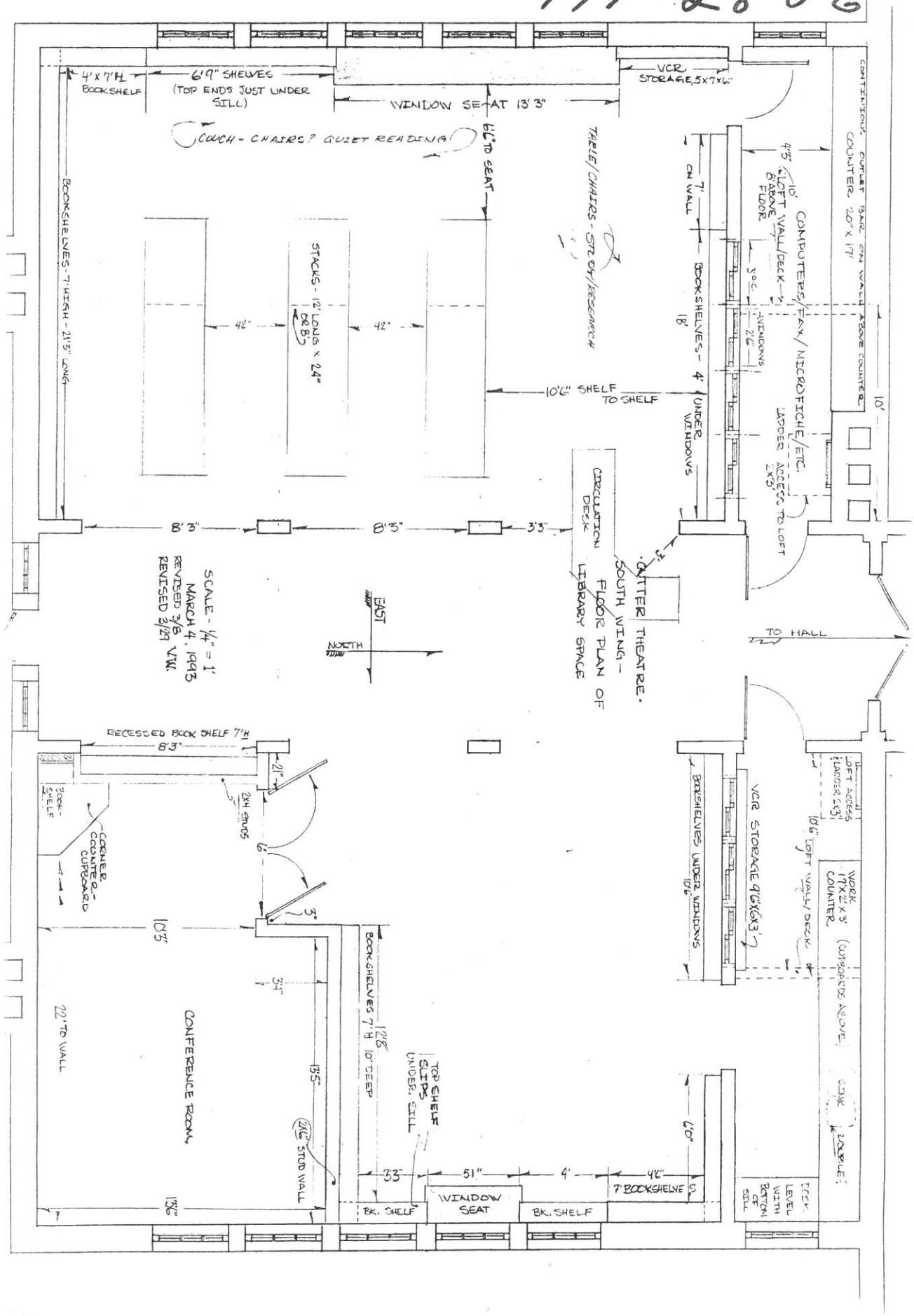
1. Document 002113 "Instructions to Bidders" for the Bidder's responsibilities for examination of Project site and existing conditions.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

447-2806


4'x7'H BOOKSHELF
6'9" SHELVES (TOP ENDS JUST UNDER SILL)
WINDOW SEAT 13'3"
VCR STORAGE 5'x7'x6'
CONTINUOUS OUTLET BAR ON WALL ABOVE COUNTER
COUNTER 20" x 17"
COUCH - CHAIRS? QUIET READING
6'6" TO SEAT
TABLE/CHAIRS - STUDY/RESEARCH
4'5"
10'
LOFT WALL/DECK 6' ABOVE FLOOR
COMPUTERS/FAX/MICROFICHE/ETC.
7' ON WALL
BOOKSHELVES - 4' UNDER WINDOWS
18'
3'0.C.
WINDOWS 2'6"
LADDER - ACCESS TO LOFT 2'x3'
BOOKSHELVES - 7'HIGH - 21'5" LONG
STACKS - 12' LONG x 24" OR 8'
42"
42"
10'6" SHELF TO SHELF
CIRCULATION DESK
8'3"
8'3"
3'3"
3'
GATTER THEATRE - SOUTH WING - FLOOR PLAN OF LIBRARY SPACE
SCALE - 1/4" = 1'
MARCH 4, 1993
REVISED 3/8
REVISED 3/29 VW.
EAST
NORTH
TO HALL
RECESSED BOOK SHELF 7'H
8'3"
21"
2x4 STUDS
6"
3"
BOOK-SHELF
CORNER COUNTER-CUPBOARD
10'3"
22' TO WALL
CONFERENCE ROOM
3'4"
BOOKSHELVES 7'H 10" DEEP
12'8"
13'5"
2x6" STUD WALL
TOP SHELF SLIDES UNDER SILL
13'6"
3'3"
51"
4'
4'8"
7' BOOKSHELVES
BK. SHELF
WINDOW SEAT
BK. SHELF
BOOKSHELVES UNDER WINDOWS
10'6"
VCR STORAGE 9'6"x6'3"
LOFT ACCESS LADDER 2'x3'
10'6" LOFT WALL/DECK
WORK 17'x2'x3' COUNTER (CUPBOARDS ABOVE)
SINK
LOOP-LIGHT
4'0"
DECK LEVEL WITH BOTTOM OF SILL

PART 1 - GENERAL

1.1 PERMIT APPLICATION INFORMATION

A . This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of the Bidders' own investigations. This Document and its attachments are not part of the Contract Documents.

B . Building Permit: The building permit for Project has been applied for by Owner and issued by the Authority Having Jurisdiction. A copy of the Building Permit is available upon request. The contractor is required to coordinate and schedule all required inspections.

C . Electrical Permit: The contractor is responsible for applying for electrical permits with the Authority Having Jurisdiction.

D . Mechanical Permit: The contractor is responsible for applying for mechanical permits with the Authority Having Jursidiction, if required for work.

E . Fire Code Permits: The Contractor is responsible for applying for Fire Code permits (underground main, sprinkler system, alarm system) with the Authority Having Jurisdiction.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

PART 1 - GENERAL

1.1 BID INFORMATION

A . Bidder: _____.

B . Project Name: Metaline Falls Branch Library

C . Project Location: 302 Park St, Metaline Falls, WA 99153

D . Owner: Pend Oreille County Library District

E . Architect: BuildingWork LLC.

1.2 CERTIFICATIONS AND BASE BID

A . Base Bid, Single-Prime (All Trades) Contract: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by Architect BuildingWork LLC and Architect's consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of:

1. _____ Dollars ($_____).
2. The above amount may be modified by amounts indicated by the Bidder on the attached 004323 "Alternates Form."

1.3 BID GUARANTEE

A . The undersigned Bidder agrees to execute a contract for this Work in the above amount and to furnish surety as specified within ten (10) days after a written Notice of Award, if offered within (60) sixty days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cash, cashier's check, certified check, U.S. money order, or bid bond, as liquidated damages for such failure, in the following amount constituting five percent (5%) of the Base Bid amount above:

1. _____ Dollars ($_____).

B . In the event Owner does not offer Notice of Award within the time limits stated above, Owner will return to the undersigned the cash, cashier's check, certified check, U.S. money order, or bid bond.

1.4 SUBCONTRACTORS AND SUPPLIERS

A . The following companies shall execute subcontracts for the portions of the Work indicated:

1. Architectural Casework: _____.
2. Electrical Work: _____.

1.5 TIME OF COMPLETION

A . The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by Architect, and shall fully complete the Work within 215 calendar days.

1.6 ACKNOWLEDGEMENT OF ADDENDA

A . The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:

1. Addendum No. 1, dated _____.
2. Addendum No. 2, dated _____.
3. Addendum No. 3, dated _____.
4. Addendum No. 4, dated _____.

1.7 BID SUPPLEMENTS

A . The following supplements are a part of this Bid Form and are attached hereto.

1. Bid Form Supplement - Alternates.
2. Bid Form Supplement - Allowances.
3. Bid Form Supplement - Bid Bond Form (AIA Document A310-2010).

1.8 CONTRACTOR'S LICENSE

A . The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in the Town of Metaline Falls, Pend Oreille County, Washington, and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.

1.9 SUBMISSION OF BID

A . Respectfully submitted this ____ day of _____, 2021.

B . Submitted By:_____(Name of bidding firm or corporation).

C . Authorized Signature:_____(Handwritten signature).

D . Signed By:_____(Type or print name).

E . Title:_____(Owner/Partner/President/Vice President).

F . Witnessed By:_____(Handwritten signature).

G . Attest:_____(Handwritten signature).

H . By:_____(Type or print name).

I . Title:_____(Corporate Secretary or Assistant Secretary).

J . Street Address:_____.

K . City, State, Zip:_____.

L . Phone:_____.

M . License No.:_____.

N . Federal ID No.:_____(Affix Corporate Seal Here).

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

PART 1 - GENERAL

1.1 BID FORM SUPPLEMENT

A . A completed bid bond form is required to be attached to the Bid Form.

1.2 BID BOND FORM

A . AIA Document A310-2010 "Bid Bond" is the recommended form for a bid bond. A bid bond acceptable to Owner, or other bid security as described in the Instructions to Bidders, is required to be attached to the Bid Form as a supplement.

B . Copies of AIA standard forms may be obtained from The American Institute of Architects; https://www.aiacontracts.org/; email: docspurchases@aia.org; (800) 942-7732.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

PART 1 - GENERAL

1.1 BID INFORMATION

A . Bidder: _____.

B . Prime Contract: _____.

C . Project Name: Metaline Falls Branch Library

D . Project Location: 302 Park St, Metaline Falls, WA 99153

E . Owner: Pend Oreille County Library District

F . Architect: BuildingWork LLC.

1.2 BID FORM SUPPLEMENT

A . This form is required to be attached to the Bid Form.

1.3 DESCRIPTION

A . The undersigned Bidder proposes the amount below be added to or deducted from the Base Bid if particular alternates are accepted by Owner. Amounts listed for each alternate include costs of related coordination, modification, or adjustment.

1. Cost-Plus-Fee Contract: Alternate price given below includes adjustment to Contractor's Fee.

B . If the alternate does not affect the Contract Sum, the Bidder shall indicate "NO CHANGE."

C . If the alternate does not affect the Work of this Contract, the Bidder shall indicate "NOT APPLICABLE."

D . The Bidder shall be responsible for determining from the Contract Documents the affects of each alternate on the Contract Time and the Contract Sum.

E . Owner reserves the right to accept or reject any alternate, in any order, and to award or amend the Contract accordingly within [60] days of the Notice of Award unless otherwise indicated in the Contract Documents.

F . Acceptance or non-acceptance of any alternates by the Owner shall have no affect on the Contract Time unless the "Schedule of Alternates" Article below provides a formatted space for the adjustment of the Contract Time.

1.4 SCHEDULE OF ALTERNATES

A . Alternate No. 1 Custom Casework Package:

1. ADD_____ Dollars ($_____).

2. ADD_____ ____ calendar days to adjust the Contract Time for this alternate.

1.5 SUBMISSION OF BID SUPPLEMENT

A . Respectfully submitted this ____ day of _____, <Insert year>.

B . Submitted By:_____(Insert name of bidding firm or corporation).

C . Authorized Signature:_____(Handwritten signature).

D . Signed By:_____(Type or print name).

E . Title:_____(Owner/Partner/President/Vice President).

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

PART 1 - GENERAL

1.1 BID FORM SUPPLEMENT

A . A completed Proposed Schedule of Values form is required to be attached to the Bid Form.

1.2 PROPOSED SCHEDULE OF VALUES FORM

A . Proposed Schedule of Values Form: Provide a breakdown of the bid amount, including alternates, in enough detail to facilitate continued evaluation of bid. Coordinate with the Project Manual table of contents. Provide multiple line items for principal material and subcontract amounts in excess of five percent of the Contract Sum.

B . Arrange schedule of values using AIA Document G703-1992.

1. Copies of AIA standard forms may be obtained from the American Institute of Architects; https://www.aiacontracts.org/ library; (800) 942-7732.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

PART 1 - GENERAL

1.1 BID INFORMATION

A . Bidder: _____.

B . Prime Contract: _____.

C . Project Name: Metaline Falls Branch Library

D . Project Location: 302 Park St, Metaline Falls, WA 99153

E . Owner: Pend Oreille County Library District

F . Architect: BuildingWork LLC.

1.2 BIDDER'S CHECKLIST

A . In an effort to assist the Bidder in properly completing all documentation required, the following checklist is provided for the Bidder's convenience. The Bidder is solely responsible for verifying compliance with bid submittal requirements.

B . Attach this completed checklist to the outside of the Submittal envelope.

1. Used the Bid Form provided in the Project Manual.
2. Prepared the Bid Form as required by the Instructions to Bidders.
3. Indicated on the Bid Form the Addenda received.
4. Attached to the Bid Form: Bid Supplement Form - Alternates.
5. Attached to the Bid Form: Proposed Schedule of Values Form.
6. Attached to the Bid Form: Bid Bond OR a certified check for the amount required.
7. Bid envelope shows name and address of the Bidder.
8. Bid envelope shows the Bidder's Contractor's License Number.
9. Bid envelope shows name of Project being bid.
10. Bid envelope shows time and day of Bid Opening.
11. Verified that the Bidder can provide executed Performance Bond and Labor and Material Bond.
12. Verified that the Bidder can provide Certificates of Insurance in the amounts indicated.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

PART 1 - GENERAL

1.1 FORM OF AGREEMENT AND GENERAL CONDITIONS

A . The following form of Owner/Contractor Agreement and form of the General Conditions shall be used for Project:

1. AIA Document A105-2017 "Standard Short Form of Agreement Between Owner and Contractor."

   a. The General Conditions for Project are AIA Document A201-2017 "General Conditions of the Contract for Construction."

2. A sample contract and the General Conditions are included in the Project Manual.

3. Additional Supplementary Conditions for Project are included in the Project Manual.

4. Owner's document(s) bound following this Document.

1.2 ADMINISTRATIVE FORMS

A . Administrative Forms: Additional administrative forms are specified in Division 01 General Requirements.

B . Copies of AIA standard forms may be obtained from the American Institute of Architects; www.aiacontractdocsaiacontracts.org; (800) 942-7732.

C . Preconstruction Forms:

1. Form of Performance Bond and Labor and Material Bond: AIA Document A312-2010 "Performance Bond and Payment Bond."

2. Form of Certificate of Insurance: AIA Document G715-2017 "Supplemental Attachment for ACORD Certificate of Insurance 25."

D . Information and Modification Forms:

1. Form for Requests for Information (RFIs): AIA Document G716-2004 "Request for Information (RFI)."

2. Form of Request for Proposal: AIA Document G709-2018 "Proposal Request."

3. Change Order Form: AIA Document G701-2017 "Change Order."

4. Form of Architect's Memorandum for Minor Changes in the Work: AIA Document G710-2017 "Architect's Supplemental Instructions."

5. Form of Change Directive: AIA Document G714-2017 "Construction Change Directive."

E . Payment Forms:

1. Schedule of Values Form: AIA Document G703-1992 "Continuation Sheet."

2. Payment Application: AIA Document G702-1992/703-1992 "Application and Certificate for Payment and Continuation Sheet."

3. Form of Contractor's Affidavit: AIA Document G706-1994 "Contractor's Affidavit of Payment of Debts and Claims."

4. Form of Affidavit of Release of Liens: AIA Document G706A-1994 "Contractor's Affidavit of Payment of Release of Liens."
5. Form of Consent of Surety: AIA Document G707-1994 "Consent of Surety to Final Payment."

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

PART 1 - GENERAL

1.1 PREVAILING WAGES

A . The State of Washington prevailing wage rates applicable for this Public Works project, which is located in Pend Oreille County, may be found at the following website address of the Department of Labor and Industries: https://fortress.wa.gov/lni/wagelookup/prvWagelookup.aspx

B . Based on the bid submittal deadline for this project, the applicable effective date for prevailing wages for this project is September 1, 2022.

C . Use Commercial Wage Rates (Not Residential Wage Rates) for work in all disciplines and trades.

D . Contractor shall post copies of statements of intent to pay prevailing wages on job site or in accordance with RCW 39.12.020.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

End of Section 00 66 00

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Special work requirements.
   2. Separate work.
   3. Owner-furnished Contractor installed products.
   4. Coordination.
   5. Reference standards.
   6. Applicable codes.
   7. Field engineering.
   8. Applications for payment
   9. Request for information

B. This Section applies to all Technical Specification Sections, and supplements the General and Supplementary Conditions.

1.2 SPECIAL WORK REQUIREMENTS

A. Limit use of premises to allow for construction operations, to allow for Owner occupancy.

B. Smoking is prohibited on site. No smoking is allowed within enclosed areas.

C. The Metaline Falls Branch Library is a tenant in the Cutter Theater Buidling. The contractor will have full use of the library suite during construction. All other areas of the building are to remain accessible and clear of construction impact unless specifically coordinated with building ownership.

   1. Installation of floor boxes will require access from space below. Coordinate with Library (who will coordinate with building owner) to arrage.

D. Owner Occupancy: Provide sufficient notice to library (client) to notify building owner as described below:
   1. Owner will occupy premises during certain periods of construction, for installation of Owner-provided materials and equipment. Cooperate with Owner to minimize conflict, and to facilitate Owner's operations.
   2. Coordinate use of premises under direction of Owner.
   3. Maintain free and safe passage to and from occupied portions of the existing building, in accordance with Code and the Owner's occupancy requirements.
   4. All occupied areas shall remain operational during normal business hours, unless approved otherwise. Notify the Owner a minimum of 48 hours prior to affecting the normal operation of existing occupied spaces.
   5. Perform no utility shutdowns unless approved by the Owner.
   6. Perform demolition to minimize interference with adjacent occupied and public spaces.
   7. To the greatest extent possible, select materials and sequence work in an area as required so that the work may be completed overnight and returned to use the next day in that area.
   8. Unless approved otherwise by the Owner or suitably isolated, do not perform loud, disruptive, dusty, or odor producing work during business hours. Perform such work only during hours that occupied spaces are closed to the public.

E. Work Plan: Contractor shall submit detailed work plan to Owner at least seven days prior to starting for each phase of work including both overall and short interval schedules as necessary to manage the work.

F. Noise Producing Activities:
   1. Unless approved otherwise, limit excessive noise producing activities to daylight hours.
   2. Comply with Section 015000 requirements for sound levels and noise control.

G. Select materials, utilize personnel, perform preparatory work, and sequence work in an area as required so that the work may be completed in the least amount of time possible.

H. All work shall be performed in a manner to maintain a normal business environment to the greatest extent possible.

1.3 SEPARATE WORK

A. Items noted "NIC" (Not In Contract), will be furnished and installed by Owner.

1.4 OWNER-FURNISHED CONTRACTOR INSTALLED PRODUCTS

A. Coordinate work to facilitate installation of products furnished by the Owner for Installation by the Contractor, as directed, and as indicated "FOIC," on the Drawings.

B. Owner's Responsibilities:
   1. Arrange for and deliver shop drawings, product data, and samples, to Contractor.
   2. Arrange and pay for product delivery to site.
   3. Upon delivery, inspect products jointly with Contractor.
   4. Submit claims for transportation damage.
   5. Arrange for replacement of damaged, defective, or missing items.
   6. Arrange for manufacturers' warranties, inspections, and service.

C. Contractor's Responsibilities:
   1. Review shop drawings, product data, and samples.
   2. Receive and unload products at site; inspect for completeness, for damage, jointly with Owner.
   3. Handle, store, install and finish products.
   4. Repair or replace items damaged by Work of this Contract.

1.5 COORDINATION

A. Coordinate work of the various Sections of Specifications to assure efficient and orderly sequence of installation of construction elements, with provisions for accommodating items installed later.

B. Verify characteristics of elements of interrelated operating equipment are compatible; coordinate work of various Sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.

C. Coordinate space requirements and installation of mechanical and electrical work which are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduits, as closely as practical; make runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

D. In finished areas, except as otherwise shown, conceal pipes, ducts, and wiring in the construction. Coordinate locations of fixtures and outlets with finish elements. Architect to review all locations of power, controls, and fire alarm boxes prior to final cover.

E. Execute cutting and patching to integrate elements of Work, uncover ill-timed, defective, and non-conforming work, provide openings for penetrations of existing surfaces, and provide samples for testing. Seal penetrations through floors, walls, and ceilings. Where patching is adjacent to historic elements, new construction methods may be used with approval of architect, but finish must match existing textures and colors.

1.6 REFERENCE STANDARDS

A. For products specified by association or trade standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.

B. The date of the standard is that in effect as of the Bid date, or date of Owner-Contractor Agreement when there are no bids, except when a specific date is specified, or when a specific date is required under the applicable building code.

C. Obtain copies of standards when required by Contract Documents. Maintain copy at jobsite during progress of the specific work.

1.7 APPLICABLE CODES

A. Conform to the codes listed on the Drawings.

1.8 FIELD ENGINEERING

A. Provide field engineering services; establish grades, lines, and levels, by use of recognized engineering survey practices.

B. Control points are those shown on Drawings. Locate and protect control and reference points. Notify the Architect if reference points cannot be located.

1.9 REQUEST FOR INFORMATION

A. A Request for Information (RFI) is a request from the Contractor directed to the Architect for clarification, interpretation, or direction regarding the Work as described by Contract Documents.

B. Coordinate and submit in timely manner so as not to impede delivery, work, and other conditions that may be detrimental to construction progress.

C. Use the supplied "Request for Information" form or another form as approved by the Architect.

D. Allow ten business days for Architect's response to the RFIs.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Identification and description of Alternate work.

B. Related Sections:
1. Owner-Contractor Agreement: Alternates accepted by Owner for incorporation into the Work.
2. Instructions to Bidders
3. Sections of Specifications identified in each Alternate.

C. This Section supplements the General and Supplementary Conditions.

1.2 PROCEDURES

A. Alternates will be exercised at the option of Owner.

B. Coordinate related work and modify surrounding work as required to complete the Work, including changes under each Alternate, when acceptance is designated in Owner-Contractor Agreement.

1.3 ALTERNATE DESCRIPTIONS

A. BID ALTERNATE #1 – ADDITIONAL FLOOR BOXES IN EAST READING ROOM
1. **UNDER BASE BID**: Protect existing children's shelving in place.
2. **UNDER BID ADDITIVE ALTERNATE 1:** Remove existing children's shelving at one location. Provide new casework for picture book display/storage as described in the contract documents.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Procedures for preparation and submittal of Applications for Payment.

B. Related Sections:
   1. Owner-Contractor Agreement: Contract Sum and Unit Prices, Amounts of Progress Payments, and Retainages, and times for submittals.
   2. 007200 - General Conditions: Progress Payments, and Final Payment.
   3. 013300 - Submittals: Submittal procedures. Schedule of Values.
   4. 017700 - Closeout Procedures: Contract Closeout Procedures; Final Payment.

C. This Section supplements the General and Supplementary Conditions.

1.2 FORMAT

A. AIA G702 - Application and Certificate for Payment

B. For each item, provide a column for listing: Item Number; Description of work; Scheduled Value, Previous Applications; Work in Place and Stored Materials under this Application; Authorized Change Orders; Total Completed and Stored to Date of Application; Percentage of Completion; Balance to Finish; and Retainage.

1.3 PREPARATION OF APPLICATIONS

A. Type required information or use media-driven printout.

B. Execute certification by signature of authorized officer.

C. Use data on accepted Schedule of Values. Provide dollar value in each column for each line item for portion of Work performed and for stored products.

D. List each authorized Change Order as an extension on continuation sheet, listing Change Order number and dollar amount as for an original item of Work.

E. Prepare Application for Final Payment as specified in Section 017700.

1.4 SUBMITTAL PROCEDURES

A. Submit a digital copy of each Application for Payment at times stipulated in Agreement.

B. Submit under transmittal letter specified in Section 013300.

1.5 SUBSTANTIATING DATA

A. When Architect requires substantiating information, submit data justifying line item amounts in question.

B. Provide one copy of data with cover letter for each copy of submittal. Show Application number and date, and line item by number and description.

PART 2 - PRODUCTS

A. Not Used.

PART 3 - EXECUTION

A. Not Used.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. General coordination provisions.
   2. Requirements for coordination of space.

B. This Section applies to all Technical Specification Sections, and supplements the General and Supplementary Conditions.

1.2 GENERAL COORDINATION PROVISIONS

A. Coordinate work of various specification sections to assure efficient and orderly sequence of installation of construction elements, with provisions for accommodating items installed later.

B. Carefully study and compare Contract Documents before proceeding with fabrication and installation of work. Promptly advise Architect of any error, inconsistency, omission, or apparent discrepancy discovered.

C. Allot time in construction scheduling for liaison with Owner and Architect. Establish procedures for handling queries and clarifications. Use Contractor's standard "Request for Information" form to initiate clarifications. Allow 10 working days in construction schedule for Architect's response to the request.

D. In addition to meetings specified in Section 013119, hold coordination meetings and conferences with personnel and subcontractors to assure coordination of the work.

E. Coordinate scheduling, submittals, and work of various specification sections to ensure efficient and orderly sequence of installation of independent construction elements.

F. Verify that characteristics of operating equipment are compatible with building utilities and services.

G. Verify characteristics of elements of interrelated operating equipment are compatible; coordinate work of various specification sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.

H. In finished areas, except as otherwise indicated, conceal pipes, conduit and wiring in the construction. Coordinate locations of fixtures and outlets with finish elements.

I. Execute cutting and patching to integrate elements of work, uncover ill-timed, defective, and non-conforming work, provide openings for penetrations of existing surfaces, and provide samples for testing. Seal penetrations through floors, walls, and ceilings.

1.3 COORDINATION OF SPACE

A. In areas not specifically dimensioned or detailed in architectural plans, the Contractor shall be responsible for coordinating the actual layout of plumbing, fire protection, HVAC, electrical, and other similar elements, as necessary to avoid interference, maintain the configurations of architectural elements, and maintain minimum ceiling and clearance heights as required by code, and accommodate existing obstructions which are to remain.

B. Layouts shown on MEP Drawings are diagrammatic. Follow routings shown for pipes, ducts, and conduit as closely as practical. Where routing changes are required in exposed locations within public spaces, or will affect architectural elements, verify modifications with the Architect prior to proceeding.

C. Develop coordination drawings, and other preinstallation coordination methods as necessary to coordinate layouts prior to installation. Coordination drawings shall be based on the approved structural steel framing shop drawings, and shall consist of overlay drawings, or other similar methods to graphically indicate plumbing, fire protection, HVAC, electrical, and other similar elements in a single location in order to identify conflicts.

D. Where coordination drawings, or other preinstallation coordination methods show that available space is inadequate or that modifications will affect architectural elements, request information from the Architect before proceeding with work. No additional payment will be made for installation conflicts which could have been identified by coordination drawings or other preinstallation coordination methods.

E. Provide clear access to control points, valves, strainers, control devices, and specialty items of every nature to such systems and equipment to obtain maximum head room. Provide adequate clearances as necessary for operation and maintenance.

F. Make runs parallel with lines of building. Utilize space efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

PART 2 - PRODUCTS

A. Not Used.

PART 3 - EXECUTION

A. Not Used.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Contractor participation in pre-construction conferences.
   2. Contractor administration of progress meetings and pre-installation conferences.

B. This Section applies to all Technical Specification Sections, and supplements the General and Supplemental Conditions.

1.2 GENERAL MEETING REQUIREMENTS

A. Make physical arrangements for meetings; notify participants, prepare agenda with copies for each attendee.

B. Take meeting minutes, and distribute copies within 2 days to the Owner, Architect, and all attendees. Distribute copies to other parties as appropriate.

C. All representatives attending meetings shall be authorized to act on behalf of the entity each represents.

D. Each meeting must have the option of being held virtually, with contractor able to video share elements of project in real time.

E. Architect will attend meetings to ascertain the work is expedited consistent with Contract Documents and construction schedules.

1.3 PRECONSTRUCTION CONFERENCES

A. Owner will administer pre-construction conference for execution of Owner-Contractor Agreement and exchange of preliminary submittals.

B. Architect will administer virtual site mobilization conference for clarification of Owner and Contractor responsibilities in use of site and for review of administrative procedures.

1.4 PROGRESS MEETINGS

A. Schedule and administer progress meetings throughout the Work at maximum bi-monthly intervals.

B. Attendance: Job superintendent, major subcontractors and suppliers, Owner, Architect, and others as appropriate to the meeting agenda

C. Suggested Agenda:
   1. Review of Work progress.
   2. Status of progress schedule and adjustments.
   3. Delivery schedules.
   4. Submittals.
   5. Maintenance of quality standards.
   6. Pending changes and substitutions
   7. Other items affecting progress of Work.

1.5 PRE-INSTALLATION CONFERENCES

A. Where required in a specification Section, schedule and administer a pre-installation conference prior to commencing work of the Section.

B. Unless otherwise required, notify the Architect a minimum of 7 calendar days prior to each scheduled meeting.

C. Require the attendance of entities directly affecting, or affected by, the work of the Section.

D. Review conditions of installation, preparation and installation procedures, and coordination with related work.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Submittal form requirements.
   2. Submittal schedule.
   3. Construction schedule.
   4. Contractor responsibilities.
   5. Requirements for each type of submittal.

B. Related Sections:
   1. 007200 - General Conditions of the Contract: Additional submittal requirements.
   2. 016000 - Product Requirements: Substitution submittals.
   3. 017700 - Closeout Procedures: Closeout submittals.

C. This Section applies to all Technical Specification Sections, and supplements the General and Supplementary Conditions.

1.2 SUBMITTAL FORM REQUIREMENTS

A. Provide the following, as applicable, on a cover sheet attached to each submittal:
   1. The Project title and number.
   2. Present and Previous submittal dates.
   3. Contractor's submittal number.
   4. Subcontract identification.
   5. The names of:
      a. Contractor.
      b. Supplier.
      c. Manufacturer.
   6. Identification of revisions on resubmittals.
   7. For each product, reference corresponding specification section and paragraph number.
   8. The contractor's review stamp
   9. A 6" high x 3" wide blank space for the Architect's review stamp.

B. Submittal Transmittal: Package each Submittal appropriately for transmittal and handling. Transmit each Submittal from the Contractor to the Consultant and to other destinations by use of the submittal tool in Procore. The Consultant will return Submittals received from sources other than the Contractor.
   1. Record relevant information and requests for data using Procore. On the submittal intake form, or an attached separate sheet, record deviations from the requirements of the Contract Documents, including minor variations and limitations.
   2. Include the Contractor's certification stating that information submitted complies with requirements of the Contract Documents.

C. Transmit submittals under AIA form G810 or other transmittal form as accepted by the Architect.

D. Submittals in graphic form shall be clear readable copies with Contractor's original stamp. Facsimile submittals will not be accepted.

1.3 SUBMITTAL SCHEDULE

A. Make submittals to the Architect as required, causing no delay in the work.

B. Require each subcontractor to make submittals within 60 days of the subcontract date, unless specified or approved otherwise, or required to meet the work schedule.

C. Allow a minimum of 10 working days from receipt, for the Architect to review each submittal. Allow additional time for large and complex submittals representing major portions of the Work, such as fire protection or structural steel.

D. Schedule submittals to allow sufficient time for possible revision and resubmittal of the rejected submittals, without affecting the construction schedule.

E. Make the following submittals to the Owner and Architect prior to starting construction and within 10 working days of the Notice to Proceed:
   1. Certificates of insurance.
   2. List of subcontractors and suppliers.
   3. Construction schedule.
   4. Submittal log.
   5. Products list.

F. Submit Schedule of Values prior to first application for payment.

1.4 GENERAL REQUIREMENTS FOR SUBMITTALS

A. Coordination: Coordinate preparation and processing of Submittals with performance of construction activities. Transmit each Submittal to the Consultant sufficiently in advance of schedule performance of related construction activities to avoid delay.

   1. Coordinate each Submittal with other Submittals and related activities that require sequential activity including:
      a) Testing
      b) Purchasing
      c) Fabrication
      d) Delivery
      e) Other Submittals and related activities that require sequential activity.
   2. Coordinate transmittal of multiple related Submittals to avoid delay in processing because of the Consultant's need to review Submittals concurrently for coordination.
      a) The Consultant reserves the right to withhold action on a Submittal requiring coordination with other Submittals until related Submittals are received.
   3. Processing: The Contractor must provide Submittals in advance of related Work activities to ensure the minimum required Working Days are provided for the Submittal review and approval process. Minimum review times are as follows:
      a) Ten (10) Working Days for the Consultant's initial review of each Submittal,
      b) Fifteen (15) Working Days if both the Engineer's and the Consultant's review is required.
      c) Allow additional time if the Consultant must delay processing to permit coordination with subsequent Submittals. The Consultant will advise the Contractor when a Submittal being processed must be delayed for coordination.
      d) When Intermediate Submittals are required, each Intermediate Submittal must be treated in the same manner as an initial Submittal.
      e) If a Submittal is rejected or otherwise not approved and requires resubmission, ten (10) Working Days are required for each resubmittal that may be required until approval is achieved.
      f) No extension of Contract time will be authorized because of the Contractor's failure to transmit Submittals to the Consultant sufficiently in advance of the Work to allow the minimum required review time.
      g) No extension of Contract time will be authorized for Submittal items that are rejected or otherwise require resubmission due to need for revision.

B. Make submittals to the Architect, unless otherwise specified.

C. Review submittals prior to submittal to the Architect. Verify specified requirements for products, field measurements, and field construction requirements.

D. Stamp and sign each submittal as certification that the submittal has been reviewed by the Contractor. Submittals not stamped and signed by the Contractor will be returned by the Architect without review for resubmittal.

E. Notify the Architect in writing, at time of submission, of all deviations in the submittals from requirements of the Contract Documents.

F. Make additional copies of approved submittals as necessary to implement the Work.

G. Review and approval of a submittal by the Architect shall not relieve the Contractor from responsibility for the proper fitting, finishing, quantities, and erection of the work in strict accordance with the Contract requirements.

H. Review and approval of a submittal by the Architect shall not relieve the Contractor from the responsibility for providing work not indicated on the submittal, but otherwise required for the completion of the work.

I. Do not fabricate or erect work prior to approval of the submittals.

J. Should discrepancies become evident, immediately notify Architect for resolution before proceeding with shop work.

K. Incorporation of substitutions into submittals will be considered cause for rejection of the submittal.

L. Submittals will be reviewed by the Architect for conformance to the design concept, only. Architect's review of vendor designed items shall not relieve the Contractor of responsibility for compliance with specified performance requirements.

M. If the Contractor fails to review Shop Drawings, Product Data, or Samples to determine their responsiveness to the Contract Documents, or fails to substantially respond to Architect's review comments prior to resubmittal, or if he makes submittals which substantially alter the Contract Documents, the Contractor shall reimburse the Owner for the charges of the Architect for extra services required to review such submittals.

1.5 CONSTRUCTION SCHEDULE

A. Prepare schedule in the form of a network planning system (CPM) for scheduling and controlling the work. Note the critical path.

B. Show commencement and completion dates proposed for each subdivision of work.

C. Update and submit monthly. Indicate actual start and completion of all completed activities. Graphically indicate changes from previously issued schedule.

D. Incorporate remedial construction into schedule when remedial work is required.

E. Show submittal dates required for shop drawings, product data, and samples, and product delivery dates, including those furnished by Owner.

F. Coordinate with the Owner's schedule, showing all Contract activities to be performed by the Owner including their start, duration, completion, float and critical path.

G. Work Plan: Contractor shall submit detailed work plan to Owner at least seven days prior to starting for each phase of work including both overall and short interval schedules as necessary to manage the work.

1.6 SUBMITTAL LOG

A. List each type of submittal, and the date that the submittal will be made. Indicate Architect review time proposed.

1.7 PRODUCTS LIST

A. Complete list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.

1.8 SCHEDULE OF VALUES

A. Submit Schedule of Values prior to first Application for payment.

B. Submit schedule on AIA Form G703. Contractor's standard form or media-driven printout will be considered on request.

C. Format: Table of Contents of this Project Manual. Identify each line item with number and title of the major Specification Sections.

D. Include in each line item amount of Allowances. For unit cost Allowances, give quantities measured from Contract Documents multiplied by the unit cost equal to the total for the item.

E. Include in each line item a directly proportional amount of Contractor's overhead and profit.

F. Revise schedule to list change orders, for each application for payment.

G. Provide a sub-schedule for each separate stage of Work specified in Section 011000.

1.9 SHOP DRAWINGS

A. Submit Shop Drawings required by individual Sections of the Specifications, and as otherwise required for proper performance of the work.

B. Illustrate fully the requirements of the Specifications and the Contract Drawings, and accurately show quantities, kinds of materials, methods of assembly, and all data required for fabrication, erection, and installation.

C. Show the relationship of adjoining work, relevant field conditions and dimensions; coordinate with affected subcontractors and suppliers if in conflict.

D. Number of Copies: Unless otherwise specified, submit 2 legible copies to the Architect for review.

E. The Architect will return one copy to Contractor with corrections, notations and Architect's stamp indicating action to be taken.

1.10 PRODUCT DATA

A. Mark each copy to identify applicable products, models, options, and other data. Include manufacturer's printed installation instructions.

B. Submit the number of copies which Contractor requires, plus 1 copy which will be retained by Architect.

C. Modify product data and installation instructions to delete information which is not applicable to the work.

D. Supplement standard information to provide information specifically applicable to the work.

1.11 SAMPLES

A. Submit samples as specified in the technical Sections.

B. Include identification on each sample, giving full information.

C. Submit the number of samples specified in the technical Sections. Where quantity is not specified, submit 3 samples. One will be retained by the Architect.

D. Unless specified otherwise, submit full range of manufacturers' standard colors, textures, and patterns for Architect's selection. Submit samples for selection of finishes within 21 days after date of Contract.

E. Submit samples to illustrate functional characteristics of the product, with integral parts and attachment devices. Coordinate submittal of different categories for interfacing work.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. General requirements.
   2. Workmanship.
   3. Special installation procedures
   4. Manufacturer's instructions.
   5. Manufacturer's certificates.
   6. Manufacturers' field services.
   7. Contractor tests and inspections.

B. Related Sections:
   1. 011000 - Summary: Applicability of specified reference standards.
   2. 013300 - Submittal Procedures: Submittal of manufacturer's instructions.

C. This Section applies to all Technical Specification Sections, and supplements the General and Supplemental Conditions.

1.2 GENERAL QUALITY CONTROL

A. Maintain quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.

1.3 WORKMANSHIP

A. Comply with industry standards, except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship.

B. Perform work with persons qualified to produce workmanship of specified quality.

C. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, and racking.

1.4 SPECIAL INSTALLATION PROCEDURES

A. Make no attachment to unreinforced masonry, structural concrete, wood framing, or steel members in the building in such a way as to overload or impair the structural integrity of the member.

1.5 MANUFACTURERS' INSTRUCTIONS

A. Unless specified otherwise, comply with instructions in full detail, including each step in sequence. Should instructions conflict with Contract Documents, request clarification from Architect before proceeding.

1.6 MANUFACTURERS' CERTIFICATES

A. When required by individual Specifications Section, submit, in duplicate, manufacturer's certification that products meet or exceed specified requirement

1.7 MANUFACTURERS' FIELD SERVICE

A. When specified, require product manufacturer to furnish qualified personnel to observe field conditions and quality of workmanship, and to provide recommendations, certifications, and other specified services.

B. Representative shall submit written report to Architect listing observations and recommendations.

1.8 CONTRACTOR TESTS AND INSPECTIONS

A. Contractor's Convenience Testing: Inspection and testing performed exclusively for the Contractor's convenience shall be the sole responsibility of the Contractor.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. General requirements.
   2. Electricity, lighting.
   3. Heat, ventilation, cooling.
   4. Telephone/Internet service.
   5. Water.
   6. Sanitary facilities.
   7. Barriers.
   8. Closures.
   9. Protection of installed work.
   10. Security.
   11. Safety.
   12. Site water control.
   13. Cleaning during construction.
   14. Project identification.
   15. Field offices and sheds.
   16. Contractor designated areas.
   17. Removal.

B. Related Sections:
   1. 011000 - Summary: Contractor use of premises.
   2. 017421 – Construction Waste Management and Disposal: Construction waste management plan.
   3. 017700 - Closeout Procedures: Final cleaning.

C. This Section applies to all Technical Specification Sections, and supplements the General and Supplemental Conditions.

1.2 GENERAL REQUIREMENTS

A. Temporary facilities and controls shall conform to the requirements of the jurisdictional code authorities.

1.3 ELECTRICITY, LIGHTING

A. Use existing power and lighting to the greatest practical extent. When approved by the Owner, provide service required for construction operations, with branch wiring and distribution boxes located as necessary for additional service and lighting

B. Provide additional temporary lighting for construction operations.

C. Repair all existing lighting and power equipment, when damaged due to construction operations.

D. The Owner will pay for power used. Take measures to conserve energy.

1.4 HEAT, VENTILATION

A. If existing systems are required to be powered down, provide temporary heating and cooling as necessary to maintain specified conditions for Construction operations, to protect materials and finishes from damage due to temperature or humidity.

B. Provide temporary ventilation of enclosed areas to cure materials, disperse humidity, and prevent accumulations of dust, fumes, vapors, or gases. Provide barrier between library space and occupied building to minimize intrusion of fumes and dust.

C. Prior to operation of permanent facilities for temporary purposes, verify that installation is approved for operation, and that filters are in place.

D. Take measures to conserve energy.

1.5 WATER

A. Water is available via the existing kitchenette sink and an exterior hose bibb that will be identified by owner. General building facilities are not to be used.

B. The Owner will pay the costs for all water used. Conserve water use whenever possible.

1.6 SANITARY FACILITIES

A. Provide and maintain required portable facilities and enclosures.

B. Existing common building facilities may not be used during construction.

1.7 BARRIERS

A. Provide as required to prevent public entry to construction areas to provide for Owner's use of site, and to protect existing facilities and adjacent properties from damage from construction operations.

B. Library doors may be locked with lites covered by paper during construction in lieu of interior barricade. If contractor desires exterior laydown area, location and barricade to be coordinated with owner at contractor's expense.

C. Provide barricades around openings in floors and roof decks.

1.8 CLOSURES

A. Exterior Closures:
   1. Provide temporary weather-tight closures as necessary to create proper interior environmental conditions, protection of materials, and to prevent entry of unauthorized persons.
   2. Where doors are necessary for access by construction personnel, provide self-closing hardware and locks.
   3. Except as necessary for construction access, do not remove exterior closures until permanent construction is ready to be installed and made weathertight.
   4. Enclosures shall be constructed to prevent blow off during inclement weather, and shall be sealed to prevent water penetration and excessive air infiltration.

B. Interior Closures:
   1. Provide temporary closures to prevent penetration of dust and moisture into occupied areas separate from work areas, damage to operating systems and components, and to create environmental conditions necessary for the proper installation of materials and systems.
   2. Construction: Framing and sheet materials with closed joints and sealed edges at intersections with existing surfaces; Flame Spread Rating of 25 in accordance with ASTM E84.

C. Installed construction which has been damaged due to lack of protection shall be replaced or restored to original or new condition.

D. Provide temporary roofing as specified in Section 075200.

1.9 PROTECTION OF INSTALLED WORK

A. Provide temporary protection for installed work, including protection from impact, water, dust contamination, overspray, and similar damage.

B. Secure temporary protections as necessary to prevent blow off during inclement weather.

C. Provide protective coverings at exposed exterior walls and horizontal surfaces, projections, and window and door openings.

D. Protect finished surfaces from damage caused by traffic, movement of heavy objects, and storage of materials. Where necessary, control traffic in immediate area as necessary to minimize the risk of impact damage.

E. Prohibit traffic and storage on waterproofed and roofed surfaces, on lawn and landscaped areas.

F. Installed construction which has been damaged due to lack of protection shall be replaced or restored to original or new condition.

1.10 SECURITY

A. Provide security program and facilities to protect Work, materials stored off-site, existing facilities, and Owner's operations from unauthorized entry, vandalism, and theft. Coordinate with Owner's security program.

B. Owner will issue a minimum of three building access cards to Contractor; more are available upon request. Each card will cost Contractor $100 fee if lost or not returned.

1.11 SAFETY

A. Furnish safety program and facilities to protect the safety of workers and other persons affected by the Work.

1.12 SITE WATER CONTROL

A. Grade site to drain. Maintain excavations free of water. Provide and operate pumping equipment.

1.13 TEMPORARY CONTROLS

A. Fire Sprinkler Supervision/Control:
   1. The library space does not currently have a sprinkler system.

B. Dust Control:
   1. Provide positive methods and apply dust control materials to minimize raising dust from construction operations, and provide positive means to prevent airborne dust from dispersing into the atmosphere.
   2. Provide temporary dust-proof partitions to protect public areas, occupied spaces, and adjacent tenant areas.

C. Water Control:
   1. Comply with applicable jurisdictional requirements regarding water usage, conservation, detention, pollution, and permits.
   2. Provide methods to control surface water to prevent damage to the Project, the site, or adjoining properties.

D. Construction Waste Control:
   1. Maintain all areas under Contractor's control free of debris.
   2. Contractor is responsible for removal and disposal of all waste generated by the project and crew. The owner’s/buildings trash receptacles are not to be used.
   3. Initiate and maintain a specific program to prevent accumulation of debris at construction site, storage and parking areas, or along access roads and haul routes.
   4. Schedule periodic collection and disposal of debris to a legal off-site location.
   5. Provide additional collections and disposals of debris whenever the periodic schedule is inadequate to prevent excessive accumulation.

6. Clean interior areas prior to start of the finish work. Maintain the areas free of dust and other contaminants during finishing operations.
7. Construction Waste Management:
   a. Coordinate with the Owner's construction waste management service to select a local waste handler who will maximize recycling, salvaging, and reuse of construction waste.
   b. Comply with the requirements of the local recycling service and provide space, access, and services necessary to support recycling operations.
   c. Instruct jobsite personnel in the appropriate separation and handling methods as set forth by the local recycling service.
   d. Keep materials to be recycled sufficiently clean and protect from damage which would render them unrecyclable.

E. Pollution Control: Provide methods, means and facilities required by law to prevent contamination of soil, water or atmosphere by the discharge of noxious substances from construction operations.

F. Noise Control:
   1. Construction operations must be performed in accordance with local regulations, ordinances, and jurisdictional Code authorities.
   2. Use of private radios and other similar portable sound equipment is prohibited.

G. Smoking, Eating, and Drinking: These activities shall be permitted only in designated locations selected by the Contractor; these activities are not permitted in interior spaces after carpeting and fixtures arrive on site.

1.14 CLEANING DURING CONSTRUCTION

A. Control accumulation of waste materials and rubbish on a daily basis, and dispose of off-site or in a designated container on site. Conform to Construction Waste Management and Disposal requirements specified in Section 017421.

B. Clean interior areas prior to start of finish work, maintain areas free of dust and other contaminants during finishing operations.

C. Remove excess debris from cavities which are to be concealed in the finished Work.

1.15 PROJECT IDENTIFICATION

A. Provide Identification if/as required by local jurisdictions.

1.16 FIELD OFFICES AND SHEDS

A. Field Office (may be located within library space):
   1. Office: Weather-tight, with lighting, electrical outlets, heating, cooling, and ventilating equipment, and equipped with furniture. Provide, in addition, space for Project meetings, with table and chairs to accommodate 6 persons.
   2. Equipment:
      a. Copier: Contractor's option; 11 x 17 inch size capability.
      b. Internet as required for communication with Architect's office and Contractor's home office.
      c. Communication Service
         1) Minimum one dedicated telephone line with instrument.
         2) An Internet Service Provider (ISP) account.
         3) Com ISDN LAN modem or Office Connect
         4) Remote Dual Analog Router (analog or ISDN depending on telephone company service), or approved, for use and communication with Internet Service Provider (ISP).
      d. Computer: Minimum one PC with minimum 8 GB of RAM, including the following or comparable software by others:
         1) Windows 10 and Microsoft Office 2016, or later; Internet Explorer 10 or later.
         2) Adobe Acrobat Pro DC, or later, at least one station for initiating documents.

3) Adobe Acrobat Reader.

e. Printer: Minimum 11x17 inch graphics capability.

f. Sheet-feed or flatbed scanner and related software.

1.17 CONTRACTOR DESIGNATED AREAS

A. The Owner may designate interior space on site which may be used by the Contractor as a field office. Otherwise, provide a portable weather tight enclosure for use as a field office.

B. The Owner will designate interior and exterior areas of the site which will be available to the Contractor for staging and storage of materials. Exterior storage areas shall be enclosed by a construction chain link fence with a vision barrier.

C. The Owner will designate areas of the Site for Contractor and employee parking.

D. Exterior Storage Sheds for Tools, Materials, and Equipment may be provided by contractor at their own cost. Coordinate location with owner.

1.18 REMOVAL

A. Completely remove temporary materials and equipment when their use is no longer required. Conform to Construction Waste Management and Disposal requirements specified in Section 017421.

B. Clean and repair damage caused by installation or use of temporary facilities. Remove underground installations to a depth of 2 feet; grade site as indicated. Restore existing facilities used during construction to specified, or to original, condition.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Products.
   2. Transportation and handling.
   3. Storage and protection.
   4. General installation requirements.
   5. Product options.
   6. Substitutions.

B. Related Sections:
   1. 006325 - Substitution Request Form.
   2. 011000 - Summary: Owner-furnished products.
   3. 014500 - Quality Control: Submittal of manufacturers' certificates.
   4. 017700 - Closeout Procedures: Systems demonstration, operation and maintenance data, warranties and guarantees, spare parts and maintenance materials.

C. This Section applies to all Technical Specification Sections, and supplements the General and Supplementary Conditions.

1.2 PRODUCTS

A. Products include material, equipment, and systems.

B. Comply with size, make, type, and quality specified, unless otherwise approved in writing by the Architect. Specifications and referenced standards are minimum requirements.

C. All components required to be supplied in quantity shall be identical, whether furnished under one or several Sections of the specifications.

D. Unless specified or indicated otherwise, materials employed for construction purposes, such as formwork, scaffolding, and temporary lighting, shall not be incorporated into the work.

E. Unless indicated or specified otherwise, all products incorporated into the Work shall be of the most suitable grade of their respective kinds for the intended use.

F. Do not use materials and equipment removed from existing structure, except as specifically required, or allowed, by Contract Documents.

1.3 TRANSPORTATION AND HANDLING

A. Transport by methods to avoid product damage.

B. Deliver products in manufacturer's original containers or packaging, with identifying labels intact and legible. Where options exist, select container or packaging systems that can be recycled or reused.

C. Furnish equipment and personnel to handle products by methods to prevent soiling or damage.

D. Promptly inspect shipments to assure that products comply with requirements, quantities are correct, and products are undamaged.

E. Immediately replace non-conforming products with new conforming products, at no additional cost to the Owner.

1.4 STORAGE AND PROTECTION

A. Store products in accordance with manufacturer's instructions, with seals and labels intact and legible.

B. Store sensitive products in weather-tight enclosures. Maintain within temperature and humidity ranges required by manufacturer's instructions, and as otherwise required to prevent damage.

C. For exterior storage of fabricated products, place on sloped supports above ground. Protect from soiling or staining through ground contact. Cover products subject to deterioration with impervious sheet covering; provide ventilation to avoid condensation.

D. Store loose granular materials on solid surfaces in a well-drained area; prevent mixing with foreign matter.

E. Arrange storage of products to furnish convenient access for inspection and inventory.

1.5 GENERAL INSTALLATION REQUIREMENTS

A. Unless indicated or specified otherwise, install each product in accordance with the product manufacturer's instructions.

B. Distribute copies of manufacturer's instructions to parties involved in the installation.

C. Maintain one set of complete instructions at the job site during installation and until completion.

1.6 PRODUCT OPTIONS

A. Product Specified by Reference Standards or by Description Only: Provide product meeting those standards.

B. Product Specified by Naming One or More Manufacturers with an "or approved" provision: Use specified product or submit a request for substitution in accordance with the specified substitution requirements. When approved a substitute product may be used.

C. Product Specified by Naming One or More Manufacturers, without a provisions for Substitution: No substitution will be allowed, except as specified under the Article on Substitutions.

1.7 SUBSTITUTIONS

A. Timing: Substitution requests will be considered by the Architect until 10 working days prior to bid opening. Substitution requests received less than 10 days prior to bid opening will be considered at the Architect's option. Subsequent substitutions will be considered only for the following reasons:
   1. A product becomes unavailable due to no fault of the Contractor.
   2. Subsequent information or changes indicate that the specified product will not perform as intended.
   3. A substitute product will be in the Owner's best interest.

B. Substitution requests prior to bid date may originate directly from the General Contractor, or from a prospective supplier or subcontractor. Subsequent substitution requests shall be submitted through the General Contractor.

C. Substitution requests will be considered only for the following reasons:
   1. A product becomes unavailable due to no fault of the Contractor.
   2. Subsequent information or changes indicate that the specified product will not perform as intended.
   3. A substitute product will be in the Owner's best interest.

D. Substitution requests shall be submitted only through the General Contractor to Architect and Owner for review and approval.

E. Documentation:
   1. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
   2. Requests for substitution shall be made on Document 006325 - Substitution Request Form.
   3. Limit each request to one proposed product or system.
   4. For substitutions prior to Agreement, signature and projected cost data are not required.

F. Request for substitution constitutes a representation that the proposer:
   1. Certifies that the proposed substitute item has been fully investigated and has been determined to be equal or superior to that specified in all respects.
   2. Certifies that the same or greater warranty will be furnished
   3. Certifies that required maintenance service and source for replacement parts are available
   4. Certifies that incorporation of the proposed substitute item will not affect functional clearances.
   5. Warrants that coordination, installation, and changes to the project as necessary to accommodate the proposed substitution shall be the Contractor's responsibility, that use of the substitute item(s) will not delay project completion

6. Warrants that claims for additional costs related to its incorporation which may become subsequently apparent will be borne bythe Contractor.

G. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals.

H. Review: The Architect will be the judge of the acceptability of the proposed substitution; in the judgment of Architect the product shall meet the following criteria:
   1. It is equal or superior in quality and serviceability to the specified product.
   2. Its use will not entail unacceptable changes in details and construction of related work.
   3. Its design and artistic effect complies with design concept.

I. The Architect will review requests for substitutions with reasonable promptness, and request additional information, documentation, or samples, as necessary for evaluation of the request. Within two weeks of receipt of the completed request, the Architect will take one of the following actions.
   1. If the substitution is allowed by the Architect prior to the cutoff date, an Addendum to the Bid Documents will be issued by the Architect.
   2. If the substitution is allowed by the Architect after the cutoff date, the Architect will notify the General Contractor and issue the appropriate Construction Change Authorization, Supplemental Instruction, or Proposal Request.
   3. If the request for substitution is denied, the proposer will be notified of the rejection. If a decision on the substitution request cannot be made or obtained within the time allocated, use the specified product.

END OF SECTION

PART 1 - GENERAL

1.01 SUMMARY:

A. This section includes administrative and procedural requirements for final cleaning of the Work prior to Substantial Completion, including but not limited to:

1. Cleaning procedures
2. Inspection

PART 2 - PRODUCTS:

A. Do not use cleaning materials that may damage finished surfaces.

B. Do not use cleaning materials hazardous to health or property.

C. Use only cleaning materials and methods recommended by manufacturer of item or material to be cleaned.

D. Submittals: Provide for the Engineer's review and approval manufacturer's Safety Data Sheets (SDS) for any and all chemical cleaning products utilized.

PART 3 - EXECUTION

3.01 FINAL CLEANING:

A. Cleaning: The Contractor must employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to the condition expected in a typical commercial building/site cleaning and maintenance program. Comply with manufacturer's instructions. Final cleaning includes but is not limited to the following procedures:

1. Remove dust and dirt in corners.
2. Remove grease, mastic, adhesives, paint splatter, glazing compounds, dust, dirt, stains, fingerprints, non-permanent labels, and other foreign materials from interior and exterior surfaces exposed to view.
   a) Clean hard-surface finishes to dirt-free condition, free of dust, stains, adhesives, films and any other discernible substances or contaminants.
   b) Except as otherwise indicated, avoid disturbance of natural weathering of exterior surfaces.
   c) Restore reflective surfaces to original reflective conditions.
   d) Replace chipped, cracked, broken, or otherwise damaged materials, including but not limited to glass and transparent materials.
   e) Remove excess lubrication and other substances from mechanical and electrical equipment.
   f) Clean plumbing fixtures to a sanitary condition.
   g) Clean light fixtures and lamps.
3. Remove debris and surface dust from limited-access spaces including trenches, equipment vaults, manholes, catch basins, crawl spaces, and similar spaces.
4. Clean project site (yard and grounds), including landscape development areas, of litter and foreign substances. Rake grounds which are neither planted nor paved to a smooth, even-textured surface.

5. Sweep paved areas to a broom-clean condition. Remove stains, petrol-chemical spills, paint splatter, and other foreign deposits.
6. Leave concrete floors broom-clean. Remove stains, spills, and other foreign deposits.
7. Vacuum carpeted surfaces. Remove coverings, stains, spills, and other substances. Any areas that in the opinion of the Engineer show noticeable wear, staining, or other damage are subject to rejection and replacement.

B. Removal of Protection: Except as otherwise indicated or requested by the Consultant or the Engineer, remove temporary protection devices and facilities installed to protect pre-existing features and/or previously completed Work.

C. Extra Materials: Excess materials of value remaining after completion of associated Work must be offered to the Engineer. If declined by the Engineer, the Contractor must dispose of these materials as directed by the Engineer.

3.02 INSPECTION:

A. Prior to requesting inspection for certification of Substantial Completion, the Contractor must inspect the Work site and verify it has been cleaned and debris removed in accordance with Contract requirements.

B. Prior to certifying Substantial Completion, the Engineer will conduct a detailed inspection of the Work and Work site. If any Work items are identified as insufficiently cleaned per Contract requirements, such items will be included on the inspection Punch List. If any such item is, in the sole opinion of the Engineer, sufficiently deficient as to render the Work unsuitable for full and beneficial use by the Owner or otherwise not meet Substantial Completion requirements, Substantial Completion will be denied.

C. No additional time will be allowed in the Contract for correction of deficiencies identified per paragraph 3.02.B above. The Contractor must correct all such deficiencies to the satisfaction of the Engineer before certification of Substantial Completion. In order to achieve Substantial Completion, the entire Project must be clean and ready for occupancy by staff and public.

END OF SECTION 01 74 23

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. This section covers the requirements for Contractor's protection of existing facilities.

1.02 NOTIFICATIONS AND COMPLIANCE:

A. Notifications Relative to Contractor's Activities:

1. The Contractor must plan and schedule Contractor work activities to conform to and allow time for notifications, approvals, reviews, and other conditions of the Contract Documents.

2. Notifications related to protection of existing facilities are specified in Section 00 72 00, subsection 1.04.BB.

B. The Contractor shall be liable for all damages arising from noncompliance with this Section.

1.04 PROTECTION AND RESTORATION OF PRIVATE AND PUBLIC PROPERTY:

A. The Contractor must protect from damage or destruction private and public property located on or near the Work that is not designated for repair, replacement or removal. The Contractor must ensure that interference with the use of such property is minimized.

B. Property includes adjacent tenant and common areas within the Cutter Theater Building, site improvements, landscaping, and site accessories, and building exterior.

C. Should damage occur to any elements of the interior or exterior of the building or site, alert the owner and architect. Repairs to the Cutter Theater and site must be reviewed by the proper landmark AHJs.

D. The Contractor must, at no additional cost to the Owner, provide and install safeguards acceptable to the Engineer to protect public and private property.

1. If the use of public or private property is interfered with by the Contractor, the Contractor's agents or the Contractor's employees, such interference must be terminated immediately.

2. If public or private property is damaged or destroyed by the Contractor, the Contractor's agents or the Contractor's employees, such damaged or destroyed property shall be considered defective or unauthorized per Section 00 72 00 subsection 1.03.G, and repaired and restored immediately to its former condition by the Contractor at the Contractor's expense.

3. Should the Contractor refuse or not respond promptly to a written request to restore damaged or destroyed property to its original condition, the Engineer may have such property restored by other means at the Contractor's expense as permitted by Section 00 72 00 subsection 1.03.H.

PART 2 - PRODUCTS

(Not Used)

PART 3 - EXECUTION

(Not Used)

END OF SECTION 01 76 00

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Closeout procedures.
   2. Project record documents.
   3. Operation and maintenance data.
   4. Operation instruction.
   5. Manufacturer's warranties.
   6. Guarantees
   7. Spare parts and maintenance materials.

B. Related Sections:
   1. 011000 - Summary: Partial Owner occupancy,
   2. 015000 - Temporary Facilities and Controls: Cleaning during construction.
   3. 017421 - Construction Waste Management and Disposal: Construction waste management plan.
   4. Division 23 and 26 for special closeout requirements for mechanical and electrical systems.

C. This Section applies to all Technical Specification Sections, and supplements the General and Supplemental Conditions.

1.2 CLOSEOUT PROCEDURES

A. Comply with procedures stated in General Conditions of the Contract for Substantial and Final Completion.

B. Certain areas will be subject to partial occupancy or use as specified in Section 011000.

C. Submit all certificates of approval issued by the governing authorities, including, without limitation, the following:
   1. Certificate of occupancy.
   2. Certificates of inspection for elevators.

D. Prior to final payment, submit the following affidavits using the forms listed below:
   1. Contractor's Affidavit of Payment of Debts and Claims AIA Document G706.
   2. Consent of Surety to Final Payment AIA Document G707.
   3. Contractor's lien release, and lien releases from each subcontractor; Contractor's Affidavit of Release of Liens AIA Document G706A

E. Submit final Application for Payment identifying total adjusted contract sum, previous payments, and sum remaining due.

F. Submit building permit documents and building inspection signoff sheets to the Owner.

G. Remove waste and surplus materials, rubbish, and construction facilities from the Project and from the site. Conform to Construction Waste Management and Disposal requirements specified in Section 017421.

H. Maintain a complete set of record documents which clearly and neatly indicate all changes from the Contract Documents, and all uncovered existing conditions which will be subsequently concealed.

I. Record documents shall include:
   1. Contract drawings.
   2. Specifications.
   3. Reviewed shop drawings, product data, and samples

J. Record documents shall be used for no other purpose and shall be stored separate from those used for construction.

K. Keep documents current; do not permanently conceal any work until required information has been recorded.

L. Mark specifications legibly and record at each Product section a description of actual products installed. Include the manufacturer's name and product model and number.

M. Drawings shall indicate exact installed locations and dimensions of all concealed work, including, without limitation, conduit, piping, ducts, mechanical and electrical equipment, and foundations. Indicate all changes to details which involve concealed construction.

N. Prior to approving each Payment Request, the Architect reserves the right to inspect the Record Documents. The Payment Request may not be approved until the record documents are current to the Date of the Payment Request.

O. At Contract Closeout, submit documents with transmittal letter containing date, Project title, Contractor's name and address, list of documents, and signature of Contractor.

1.3 OPERATION AND MAINTENANCE DATA

A. Furnish published operation and maintenance information covering all equipment and finish materials installed on the project. Whether specified or not, furnish published information whenever special maintenance procedures are required to assure the proper operation and durability of project material, equipment, and finishes.

B. Number of copies: Unless otherwise specified, submit two hard copies and two digital, bookmarked, PDFs on USB thumb drives of each at time of project substantial completion.

C. Submit operation data and maintenance data bound in a three ring binder. Include divider tabs to separate data for each component. Include name of Project, Contractor, and Architect.

D. Information shall be submitted by the General Contractor through the Architect.

1.4 OPERATION INSTRUCTION

A. Prior to Final Completion, instruct Owner’s personnel in operation, adjustment, and maintenance of products, equipment and systems. Provide instruction at mutually agreed upon times.

B. Use experienced personnel trained and experienced in the operation and maintenance of the building equipment or system involved.

C. Use operation and maintenance manuals for each piece of equipment or system as the basis of instruction. Review contents in detail to explain all aspects of operation and maintenance.

D. Refer to the individual technical Sections for additional requirements for instruction of Owner’s personnel.

1.5 MANUFACTURER'S WARRANTIES

A. Furnish original and duplicate copies of each manufacturer warranty executed to the Owner.

B. Execute Contractor's submittals to the manufacturers, and assemble documents executed by the manufacturers.

C. Provide table of contents and assemble in binder with durable plastic cover.

D. Submit material prior to final application for payment in accordance with Section 013300. For equipment put into use with Owner's permission during construction, submit warranty within 10 days after first operation. For items of Work delayed materially beyond Date of Substantial Completion,

furnish warranty within ten days after acceptance, listing date of acceptance as start of warranty period.

1.6 GUARANTIES

A. Furnish written guaranty, executed to the Owner, from each subcontractor performing work on work covered by the additional guaranty requirements specified in the technical sections. The guaranty shall commence on the date of Owner acceptance of that portion of the work.

B. Transmit through the Architect in accordance with Section 013300.

1.7 SPARE PARTS AND MAINTENANCE MATERIALS

A. Furnish products, spare parts, and maintenance materials in quantities specified below and in each Section, in addition to that used for construction of Work. Coordinate with Owner, deliver to Project site and obtain receipt prior to final payment.

1. Carpet: 8 to 10%
2. Paint: 1 gallon per color/sheen
3. Rubber Base: 5 to 8%

B. Unless specified otherwise, deliver materials in manufacturer’s original factory cartons or containers.

C. Materials shall be clearly labeled, and shall include designations used in the Contract Documents.

1.8 KEYS

A. Deliver properly identified and tagged keys and hardware maintenance tools to the Owner, including those specified in Sections 087100 and 102813.

B. Obtain itemized receipt for all keys and tools.

C. Send all master keys by registered mail directly from manufacturer to Owner's representative as later directed.

END OF SECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS: Drawings and general provisions of the Contract apply to work in this Section.

A. Specific related Sections include, but are not limited to:

- Section 00 72 00 - General Conditions
- Section 01 77 19 – Contract Closeout
- Section 01 78 36 - Warranties and Bonds
- Section 01 78 39 - Record Documents

1.02 WORK IN OTHER SECTIONS: Coordinate related work specified in other parts of the Project Manual

1.03 DESCRIPTION OF WORK: The Operations and Maintenance (O&M) Manual must contain all operating and maintenance instructions, information, and/or data relevant to all:

A. Architectural products;

B. Finishes and furnishings;

C. Mechanical equipment and components;

D. Electrical equipment and components; and

E. Any other special equipment and components required for the project.

An itemized indexed list of all warranted items and products and their warranty term must be placed at the beginning of the O&M Manual for easy reference. The O&M Manuals must be prepared in both physical form (paper) and electronic form (.pdf).

1.04 O&M MANUAL FORM AND MATERIALS:

Commented [MJ1]: ADD OCR PDF language--Seward & Duwamish have this already-- Verify with Jason on PDF requirements

A. Organization - the O&M Manual must be organized in accordance with the 48 Division CSI (Construction Specifications Institute) numbering system. Divisions must be flagged with tabs.

B. Size - must be 8-1/2" x 11"

C. Paper - provide 20 pound (74 g/m^2) minimum; white for text pages.

D. Digital - when used, provide .pdf copies of original product documentation that conforms with the below formatting conditions:
   1. The .pdf must be saved as a standard .pdf file (not “PDF-A” or other formats);
   2. The .pdf must be a ‘flat’ document—integrating all layers, incorporating all document comments and markups, with removal of all form and signature fields, removal of all embedded hyperlinks and hidden content;
   3. The .pdf must contain absolutely no encrypted, password-protected, or other restricted-access content;
   4. The .pdf must be identical in contents and organization as its corresponding physical (paper) O&M Manual version.

E. Text - provide Manufacturer's printed data, or neatly typewritten information

F. Drawings - accordion fold all oversize drawings to 8-1/2" x 11" size for binding.

G. Separation of Information – Separate each CSI Division with heavy-weight, durable paper or plastic tabbed index dividers, 110-lb index (210 g/m^2) or equivalent, resistant to folding and tearing. Separate

each product and or component parts of equipment within a CSI Division with standard tabbed dividers, 90-lb index (165 g/m^2) or equivalent, followed by typewritten page describing the contents of the section.

H. Index Tabs- Each index tab must be neatly and legibly printed (using typewriter or laser printer) to describe the contents of the section. Index tabs must be durable, plastic coated, reinforced, and indexed to match the names and order listed in the Table of Contents. Inserted index tabs are not allowed.

I. Binders - provide:
   1. Commercial quality three-ring hard cover binders with durable and cleanable plastic covers for inserting required cover and spine information.
   2. Ring size: As suitable to content; 3 inch-maximum, 1-inch minimum.
   3. When multiple binders are used, correlate data into related groupings.

J. Manual Cover - the Cover of the O&M Manual must include the following information in the order shown:
   1. Title of Project
   2. CIP Project Number
   3. Public Works Contract Number
   4. The words "Operations and Maintenance Manual"
   5. If applicable, the volume number (label volumes as 1 of 4, 2 of 4, 3 of 4, etc.)
   6. Company Name of primary Consultant/Designer
   7. Company Name of Prime Contractor
   8. If applicable, Company Name(s) of primary Subcontractor(s) (e.g. Mechanical, Electrical, etc.)
   9. Physical Completion Date (this may be provided as a placeholder for the Owner to fill in after acknowledgement of Physical Completion.

K. Manual Spine - the spine of the O&M Manual must show the name of the project followed by “O&M Manual” and the year completed. If there are multiple volumes, identify the volume number and the general subject matter covered in that volume.

1.05 CONTENTS:

A. Title Page - provide the title of the Project; name of the Project Manager; names, addresses, telephone numbers of the Consultant, major Subconsultants, General Contractor, and major Subcontractors; and date of Physical Completion.

B. Table of Contents - provide a complete table of contents listing major sections of the Manual and clearly identifying categories of information in each section.

C. Owner’s Acknowledgment of Physical Completion - since the O&M Manual is due in advance of Physical Completion, this may be provided as a placeholder page, with the actual acknowledgment to be inserted by the Owner after receipt of the approved O&M Manual.

D. Warranty List noted in 1.03 listed above.

E. The Contractor must provide a table summarizing recommended and required maintenance activities and schedules for all equipment/components, i.e. scheduled maintenance spreadsheet. The Consultant will utilize this information in part for developing a Preventive Maintenance Schedule.

F. Body of Manual - must be in the Construction Specification Institute (CSI) Format.

1. Divisions 02 through 48: Bind all product data, product maintenance data, and warranty information together for each product listed. All products and systems that could reasonably be expected to require repair or replacement within 40 years after Project Physical Completion must be covered in this manual. Include:
    a. Product Data - submit original product literature only. Mark each sheet to clearly identify specific products and component parts and data applicable to installation. Modify product data as required to accurately represent completed installation. Delete inapplicable information.
    b. Products, Applied Materials and Finishes- include all product data with catalog number, size, composition, and color and texture designations. Provide all necessary information for re-ordering custom manufactured items.
    c. Paintings and Coatings - for all painting work, provide a complete finish schedule of products, color names and numbers, formulas, and gloss used. Provide a drawing showing all paint and color locations.
    d. Moisture Protection and Weather Exposed Products- include product data listing applicable reference standards, chemical composition, and details of installation. Provide recommendations for inspections, maintenance, and repair.
    e. For each product or finish, list names, addresses and telephone numbers of suppliers, including local source of supplies and replacement parts.
    f. Drawings - supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Document as maintenance drawings.
    g. Additional Requirements- as specified in individual specification sections and such data or information that may be identified as useful or important during instruction of Parks' personnel.
    h. Preventive Maintenance Instructions: Include for each piece of equipment or system furnished requiring periodic inspections, lubrication, adjustment and/or other periodic tasks, as appropriate to ensure optimum and continued performance as specified.
    i. Instructions for Care and Maintenance: Include manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommend schedule for cleaning and maintenance.

G. Warranties and Bonds:
1. Product Warranties: Include copies of all Extended Warranties with products that have them. See individual Project Manual sections for requirements. Identify such warranties in the table of contents at the beginning of the O&M Manual.
2. Bind in a copy of each warranty with each product or system. The original of each warranty must be bound in a separate labeled hard cover binder and submitted with the Approved O&M Manuals. See section 01 78 36 - Warranties and Bonds.

1.06 SUBMITTAL SCHEDULE:

A. At least ten (10) days prior to scheduled Substantial Completion, submit two (2) copies of preliminary draft of proposed formats and outlines of contents to the Project Manager for review and approval by the Consultant and the Engineer. After the review, the copy will be returned to the contractor with accompanying comments. Incorporate comments in the draft O&M manual submitted per Paragraph 1.06.B.

B. Prior to requesting acknowledgement of Substantial Completion, or prior to Contractor training of Parks' personnel (whichever is earlier), submit two (2) copies of completed draft O&M Manual in approved final form to the Project Manager for review and approval by the Consultant and Engineer.

One or both copies may be physical (paper), or digital (.pdf), and both must be identical in content, and conform to formatting requirements stipulated in Paragraph 1.04.D, above, if digital.

C. If the draft O&M Manual is not approved by both the Consultant and Engineer per Paragraph 1.06.B above, during the period between Substantial and Physical Completion, revise the O&M Manual to incorporate any comments, corrections, revisions, or requests for additional information received by the Consultant or Engineer. All such changes will be reviewed by the Consultant and Engineer to verify adherence to Contract requirements. The Contractor shall not request confirmation of Physical Completion until the As-Built Documents have been approved by both the Consultant and Engineer.

C. Submit three (3) copies of approved O&M Manual(s) in final form to the Project Manager prior to Physical Completion. If the original two (2) draft copies submitted per Paragraph 1.06.B were approved by both the Consultant and Engineer without any changes needed, only one (1) final O&M Manual need be submitted at this time.

L. Submit one (1) copy of approved final O&M Manual(s) in electronic format (.pdf) conforming with Paragraph 1.04.D, above, to the Project Manager prior to Physical Completion.

PART 2- PRODUCTS: *(Not Used)*

PART 3- EXECUTION: *(Not Used)*

END OF SECTION 01 78 23

PART 1 – GENERAL

1.01 GENERAL:

A. This Section addresses the need, if required, to either extend the bonded warranty for the Contractor and/or obtain extended warranties from Subcontractors, Suppliers and or Manufacturers for Materials, equipment, and installation as identified in the technical specifications of the Project Manual, and warranty inspections.

B. Unless otherwise extended per paragraph 1.02.A below, the general guaranty and warranty for the entire project must be as provided per Section 00 72 00, paragraph 1.03.J.

C. Related Sections include, but are not limited to:

- Section 00 72 00 - General Conditions
- Section 01 77 19 – Contract Closeout
- Section 01 78 23 - Operations and Maintenance Manual
- Section 01 78 39 - Record Documents

1.02 EXTENSION OF STANDARD CONTRACTOR-BONDED WARRANTY:

A. The general guaranty and warranty for the entire project must be as provided per Section 00 72 00, paragraph 1.03.J, with the exception that the duration of that warranty period must extend 1 years from the date of Physical Completion.

1.03 EXTENDED WARRANTY FOR MATERIALS, EQUIPMENT, AND INSTALLATION:

A. Individual technical Sections may require specific warranties beyond the standard one-year bonded warranty.

B. Subcontractors, Manufactures and Suppliers must provide limited or full warranties for products that they provide as specified elsewhere in the Project Manual.

C. Extended warranties must start on the Physical Completion date established by the Engineer and cover the warranty period specified in the technical specifications or the time period provided by the subcontractor, supplier and/or manufacturer, whichever is longer. Warranties must cover material and or equipment replacement, costs of installation, and costs associated with repair of damages caused by the removal and replacement of the defective product.

D. Form of Extended Warranty: The Contractor must provide a separate written Warranty for each element of work wherein a separate extended warranty period is required under the Contract. Each Warranty must be printed on the Contractor's letterhead, and any information or printed materials pertaining to that warranty must be attached thereto. The Warranty must be stated, at minimum, to include all aspects of the model statement appended to this section, and must not include any conditions or qualifications that would reduce the coverage provided by this model statement. The Contractor also has the option to utilize the model warranty language as generated by the "Warranty" sheet contained within Procore provided that the form letter has been fully and accurately populated with the necessary information.

1.04 SUBMITTAL REQUIREMENTS:

A. See Section 01 78 23 – Operations and Maintenance Manual.

1.05 WARRANTY PROVISIONS:

A. Unless extended per Paragraph 1.02.A above, the bonded warranty period for the general Contractor must be as specified in Section 00 72 00, Paragraph 1.03.J.2.

B. In the event of failure of any part of the Work during the warranty period, the Contractor must repair or remove and replace the defective components, including repair/replacement of any overlying or dependent construction, at no additional charge to the Engineer.

C. Repairs and replacements must be completed in accordance with all the requirements of the Contract Documents. Repaired or replaced Work must be equivalent to the original work unless otherwise approved in writing by the Engineer.

D. In the event of repeated failure of any repaired component, or if the Engineer is not satisfied that the quality of repairs meets the requirements of the Contract Documents, the Engineer may order defective work completely removed and replaced with new.

E. The Engineer will schedule a warranty inspection of all work completed under the Contract prior to expiration of the General Warranty period. The Engineer will establish the date, time and place for the warranty inspection and notify the Contractor and Consultant to send representatives. Working with the Engineer and the Contractor, the Consultant will identify warranty defects and prepare a warranty inspection list of items to be corrected. The Consultant will provide a copy of the warranty inspection list to the Engineer and the Contractor. The Contractor must correct and/or replace defective items or defective workmanship in a reasonable time, not to exceed two months. Failure of the Contractor to correct identified warranty deficiencies may result in the Engineer referring the matter for corrective action in accordance with Section 00 72 00.

F. If any replacement or repair is made under the Warranty provisions of this Contract, the Warranty period for all Work involved in such replacement or repair must be renewed for an additional one-year period, provided, however, that the revised Warranty expiration date for such Work shall not extend more than two years past the original Warranty expiration date established upon Physical Completion.

PART 2 - PRODUCTS: *(Not Used)*

PART 3 - EXECUTION: *(Not Used)*

END OF SECTION 01 78 36

(NOTE: Print letter on Contractor's letterhead.)

CERTIFICATE OF WARRANTY

<Date>

Mandy Walters
Director
Pend Oreille County Library District
RE: Metaline Falls Branch Library
302 Park Street
Metaline Falls WA, 99153

SUBJECT: *<PW# and Project Name>*
<Subcontractor Name if applicable>, <Description of Warranted Work>

<Contractor Name> certifies that the <description of warranted work>, installed by <"our company" or subcontractor name, as applicable> as part of <PW# & Project Title> located at *<Park Name>* (*<Park Address>*), is performed in strict accordance with the Contract Documents.

Furthermore, *<Contractor Name>* guarantees this Work to be free of defects in materials and workmanship until *<last day of warranty period>*, which is *<number, spelled>* (*<#, numeric>*) years from the established Physical Completion date of *<Engineer-confirmed Physical Completion date>*, as required by the Contract.

During this warranty period, at no cost to the Owner, *<Contractor Name>* will repair or replace, without delay, any defects in materials, equipment, installation, and/or workmanship, as well as correct any associated damage to the Owner's property caused as a result of such defect occurring and/or repair of such defect, in full accordance with Contract requirements.

Sincerely,

<Contact name & title>,
<Company name>
<Company street address>
<Company City, State, & Zip Code>
<Contact telephone number>

PART 1 - GENERAL

1.01 RELATED SECTIONS

A. Related Sections include, but are not limited to:
- Section 00 72 00 - General Conditions
- Section 01 77 19 – Contract Closeout
- Section 01 78 23 - Operations and Maintenance Manual
- Section 01 78 36 – Warranties and Bonds

1.02 AS-BUILT DOCUMENTS:

A. As-Built Records: These consist of Redline Drawings, Engineer-approved Shop Drawings, and any other drawings or documents that accurately describe the Work actually done under the Contract, including any and all deviations from the Work as originally bid. As-Built documentation must therefore include, but not be limited to, design changes, fabrications, assembly diagrams, and other as-built records as specified in the Contract or as required by the Engineer.

B. Redline Drawings: The Contractor must maintain a clean, undamaged set of bond copies of the Contract Drawings. This drawing set must be clearly labeled: "REDLINE DRAWINGS". This Redline Drawing set (which is sometimes referred to as “As-Built Drawings”) must be neatly annotated to show the actual installation of materials and systems wherever the installation varies substantially from the Work as originally shown in the Contract Documents. The Contractor must annotate all drawings where variation between the design depicted in the Contract Documents and the As-Built conditions can be reasonably discerned. When Shop Drawings apply, record a cross-reference at the corresponding location on the Contract Drawings and affix the Shop Drawings to the prints. Clearly identify as-built modifications resulting from Change Orders with the appropriate Modification Proposal number. Give particular attention to underground or concealed elements that would be difficult to measure and record at a later date.

1.03 USE AND PROTECTION:

A. Do not use Redline Drawings or other As-Built Records for construction purposes. Protect from deterioration and loss in a secure, fire-resistive location at the project site. Provide access to all As-Built Records for the Consultant’s reference during normal working hours.

1.04 QUALITY ASSURANCE:

A. Delegate the responsibility for maintenance of As-Built Documentation to one person on the Contractor's staff, as approved by the Engineer. Identify this person at the pre-construction meeting and place on the Contractor’s Personnel submittal.

B. Make entries on the Redline Drawings clearly showing as-built conditions within 24 hours after completing any element of work.

C. Accuracy of records:

1. If changes or additions pertain to the specifications contained in the Contract Project Manual, coordinate such changes and additions within both the Redline Drawings and the pertinent Project Manual pages, making adequate and proper entries on each page of specifications and each sheet of drawings and other documents where such entry is required or relevant to show the change(s) fully and accurately.
2. Accuracy of records must be such that future search for items shown in the final project Record Documents may rely reasonably on information obtained from the approved project As-Built Documentation,

1.05 MAINTENANCE OF RECORD DOCUMENTS:

A. Maintain and store in field office apart from documents used for construction, the following documents:
   1. Permit drawings, bearing building permit approval from SDCI and/or other regulatory agency having jurisdiction, if any.
   2. Project Manual, bearing building permit approval from SDCI and/or other regulatory agency having jurisdiction, if any.
   3. The Signed Contract, Bonds, Insurance, Addenda, Design Clarifications, Field Directives, Modification Proposals, Change Orders, and approved Substitutions.
   4. Approved shop drawings and all other submittals.
   5. Field test records.
   6. A 3-ring binder containing clearly-identified pages from the Project Manual that have been annotated to reflect As-Built conditions as described in Section 1.04.C.1 above.

B. Provide files and racks for storage of documents

C. File documents in accordance with Project Manual table of contents.

D. Make documents available for weekly progress meeting and at all times for inspection by Consultant.

E. In the event of loss of recorded data, the Contractor must use all means necessary to again secure the data to the Engineer's satisfaction.

F. Payment may be withheld or pay requests modified for incomplete or inaccurate recording of as-built information.

G. The Engineer may request confirmation of recorded work by independent survey or inspection. If inaccuracies are found, Engineer may order hidden elements to be exposed for recording. All costs associated with this work may be deducted from the Contractor's Contract amount if the information has either not been recorded or has been recorded incorrectly.

1.06 SUBMITTALS:

A. Before requesting confirmation of Substantial Completion, the Contractor must deliver two (2) complete color copy sets of draft As-Built Documents to the Owner for review and approval. The As-Built Documents must include the full Redline Drawing set; annotated Project Manual; Change Orders; and approved shop drawings, product data, and samples which clearly and legibly show all deviations from the Contract Documents with red-colored pencil. The As-Built Documents must be approved by both the Engineer and the Consultant.

B. If the draft As-Built Documents are not approved by both the Consultant and Engineer per Paragraph 1.06.A above, during the period between Substantial and Physical Completion, revise the As-Built Documents to incorporate any comments, corrections, revisions, or requests for additional information received by the Consultant or Engineer. All such changes will be reviewed by the Consultant and Engineer to verify adherence to Contract requirements. The Contractor shall not request confirmation of Physical Completion until the As-Built Documents have been approved by both the Consultant and Engineer.

C. Once approved by both the Consultant and the Engineer, the Contractor must submit scanned color copies (PDF format) and the final, approved originals of the approved As-Built Documents to the Engineer. These must be provided prior to the Contractor requesting establishment of the actual Physical Completion date from the Engineer.

PART 2 - PRODUCTS: *(Not Used)*

PART 3 - EXECUTION

3.01 RECORDING:

A. Mark As-Built Documents with red erasable pencil; other colors may be used when appropriate to distinguish between elements of the Work on the same drawing, such as different systems or Work resulting from different Modification Proposals.

B. Mark new information that was not shown on Contract Drawings or Shop Drawings, and as directed by the Engineer.

C. Indicate changes to the Work and/or the project site that were not known prior to beginning the Work but became visible as part of the project implementation and did not result in a change order.

D. Note all changes resulting from Modification Proposals by MP number.

E. Note all changes resulting from Field Directives.

F. Note all product or material substitutions.

G. Record information concurrently with construction progress. Do not conceal any work until all relevant as-built information is recorded.

H. The Contractor and its Subcontractors must coordinate recording of as-built information as follows:

1. The Contractor must ensure each Subcontractor makes record notations for his/her own Work and forwards these at least weekly to the general Contractor while such Work is in progress. The general Contractor must transfer each Subcontractor's notations as well as record their own notations of the general Work to a single set of As-Built Documents.
2. Legibly mark record As-Built documents to show the following:
   a) Accurate measurements and locations of underground services and utilities referenced to the building or other permanent construction as directed by the Engineer.
   b) Note changes of direction and locations, by horizontal dimension and vertical elevations, as utilities are actually installed.
   c) Note deviations from the Contract documents, and reference reason for change (e.g., construction meeting minutes, telephone call report, field order, etc.).
   d) Show details and locations not on original Contract drawings.
   e) Indicate field changes of dimensions and details.

I. Project Manual Specifications (including relevant Addenda): Legibly mark each section to record:

1. Manufacturer, trade name, catalog number, and Supplier of each equipment item and material actually installed; and
2. Changes made by field directive or by change order.

J. Shop Drawings, product data sheets and samples: Maintain one complete set as Record Documents and legibly annotate to record all approved changes.

3.02 ORGANIZATION OF RECORD DOCUMENTS:

A. Organize all Record Documents into a manageable set, and print suitable titles, dates and other identification on the cover sheet(s).

END OF SECTION 01 78 39

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Selective demolition of building elements.

B. Description of items to be salvaged or removed and re-used.

1.02 RELATED REQUIREMENTS

A. 011400 – Work Restrictions

B. 015000 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.

C. 017419 - Construction Waste Management and Disposal: Limitations on disposal of removed materials; requirements for recycling.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene one week before starting work of this section.
   1. Review preparation and installation procedures and coordinating and scheduling required with related work.
   2. Review Owner salvage requirements and conduct a walk-thru with Owner present.

1.04 SUBMITTALS

A. Qualification Data: For demolition contractor listing projects and references.

B. Demolition Plan: Submit demolition plan as specified by OSHA and local authorities.
   1. Indicate extent of demolition, removal sequence, bracing and shoring, and location and construction of partitions, barricades and fences.
   2. Include procedures and coordination with other work in progress, a disconnection schedule of utility services, and a detailed description of methods and equipment to be used for each operation and of the sequence of operations.
   3. Identify demolition firm and submit qualifications.
   4. Include a summary of safety procedures.

C. Engineering Survey.

D. Existing Condition Survey.

1.05 QUALITY ASSURANCE

A. Demolition Contractor Qualification: Company specializing in selective demolition comparable in scope, environmental and historical sensitivity of work specified in this section with minimum 5 years experience.

PART 2 – PRODUCTS

1.06 DESCRIPTION

A. Selectively demolish existing elements to accommodate tie in of new work to existing conditions.

1.07 PERFORMANCE AND DESIGN CRITERIA

A. 29 CFR 1910: Occupational Safety and Health Standards

B. 29 CFR 1926 - U.S. Occupational Safety and Health Standards; current edition.

C. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2013.

PART 3 - EXECUTION

1.08 EXAMINATION

A. Verify that utilities have been disconnected and capped before start of work.

B. Review record documents provided by Owner and schedule listing salvage and remove for re-use items.

C. Engage a professional engineer to perform an engineering survey to determine if removing indicated elements may result in a structural deficiency or unsafe condition during scope of work.

D. Perform a survey of existing conditions by use of measured drawings and preconstruction photographs.

E. A hazardous materials report has been commissioned by the owner and is included as part of the contract documents for this project.
   1. Hazardous materials described in the report and impacted or modified by the Work are to be removed as a responsibility of the General Contractor and included as part of the general construction contract.

1.09 PREPARATION

A. Conduct selective demolition and debris-removal operations to ensure minimum interference with walks, walkways, and other adjacent occupied and used facilities.

B. Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction from being demolished.

1.10 SELECTIVE DEMOLITION OF BUILDING ELEMENTS

A. Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations.

B. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction.

C. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.

D. Removed and Salvaged Items:
   1. Clean salvaged items.
   2. Pack or crate items after cleaning. Identify contents of containers.
   3. Store items in a secure area until delivery to Owner.
   4. Transport items to Owner's storage area designated by Owner.
   5. Protect items from damage during transport and storage.

E. Removed and Reinstalled Items:
   1. Clean and repair items to functional condition adequate for intended reuse.
   2. Pack or crate items after cleaning and repairing. Identify contents of containers.
   3. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

F. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete.

1.11 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition. Return adjacent areas to condition existing before selective demolition rations began.

1.12 SCHEDULE

A. Locations and extent of salvaged and demolished items in accordance with demolition drawings, including but not limited to the following:
   1. Salvage all removed light fixtures and review condition with owner.
   2. Salvage baseboard and casing as indicated on the drawings.

END OF SECTION

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Finish carpentry materials.

1.02 RELATED REQUIREMENTS

A. 061000 - Rough Carpentry: for additional carpentry items.

B. 099000 - Painting and Coating: for field finish of finish carpentry items.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Pre-installation Meeting: Convene one week before starting work of this section in accordance with Section 013000 - Administrative Requirements.
   1. Review preparation and installation procedures and coordinating and scheduling required with related work.
   2. Review FM and Owner requirements for quality assurance and testing.

1.04 SUBMITTALS

A. Qualification Data: For fabricator.

B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
   1. Minimum Scale of Detail Drawings: 1-1/2 inch to 1 foot.
   2. Provide the information required by AWI/AWMAC/WI Architectural Woodwork Standards.

C. Sample: Submit three samples of each type exposed to view, 11 inches by width of board (or 8 inches max) in size illustrating specified finish.

D. Maintenance Data: For users operation and maintenance of system including:
   1. Methods for maintaining system's materials and finishes.
   2. Precautions about cleaning materials and methods that could be detrimental to components, finishes, and performance.

1.05 QUALITY ASSURANCE

A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
   1. Company with at least one project in the past 5 years with value of woodwork within 20 percent of cost of woodwork for this Project.
   2. Single Source Responsibility: Provide and install this work from single fabricator.

1.06 DELIVERY, STORAGE, AND HANDLING

A. As required by the Quality Certification Program for installation of the installed products to meet the Performance and Design Criteria.

PART 2 - PRODUCTS

2.01 DESCRIPTION

A. Items including moldings, bases, casings, and miscellaneous trim. Carpentry items shop fabricated and finished in accordance with AWI/AWMAC/WI (AWS) Architectural Woodwork Standards.

2.02 MATERIALS

A. Interior Woodwork Items:
   1. Species and Finish: As scheduled below.
   2. Moldings, Bases, Casings, and Miscellaneous Trim.
      a. Profiles: Custom or standard to match existing profiles.
      b. Finish: Painted

B. Sheet Materials:
   1. MDF: Paint grade, as described in AWI/AWMAC/WI standards for premium construction.

C. Flame Retardant: WT-103 by FireTect. Finish: Clear Matte. Performance: Provides ASTM E84 Class B.

D. Shop Finishing:
   1. Sand work smooth and set exposed nails and screws.
   2. Apply wood filler in exposed nail and screw indentations.
   3. Finish work in accordance with AWI/AWMAC/WI Architectural Woodwork Standards, Section 5 – Finishing per specification section 099000, Painting and coating.
   4. Back prime woodwork items to be field finished, prior to installation.

E. Site Finishing:
   1. In accordance with Section 099000 - Painting and Coating.

2.03 ACCESSORIES

A. All accessory materials required by the manufacturer for a warrantable installation of the installed products in a manner that meets the Performance and Design Criteria.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify existing conditions meet the requirements of the quality standard specified before starting work.

3.02 PREPARATION

A. Prepare surfaces to receive work in accordance with quality standard specified.

3.03 INSTALLATION

A. General: Install all materials in accordance with quality standard specified based on conditions present.

B. Install interior finish carpentry level, plumb, true, and aligned with adjacent materials. Use concealed shims where necessary for alignment.
   1. Scribe and cut to fit adjoining work. Refinish and seal cuts as recommended by quality standard.
   2. Where face fastening is unavoidable, countersunk fasteners, fil surface flush and sand unless otherwise indicated.
   3. Install to tolerance of 1/8 inch in 96 inches for level and plumb. Install adjoining interior finish carpentry with 1/32 inch maximum offset for flush installation and 1/16 inch maximum offset for reveal installation.

C. Install trim with minimum number of joints practical, using fill length pieces from maximum lengths of lumber available. Do not use pieces less than 24 inches long, except where necessary. Stagger joints in adjacent and related standing and running trim. Miter at returns, miter at outside corners, and cope at inside corners to produce tight-fitting joints with full surface contact throughout length of joint. Use scarf joints for end-to-end joints.

3.04 PROTECTION

A. Protect installed work as required by the quality standard to maintain product performance, design criteria and warranty.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: T-Grooved wood composite 3/4" (19mm) thick panels, pre-engineered and machined for use with aluminum groove inserts. Display elements to be purchased by owner.
   1. Attachment System:
      a. Direct fastening of slatwall to wood stud framing.
   2. Panels:
      a. Primed Finish: Alkyd primer factory applied and baked creating a suitable surface for field finish in one coat.

B. Products Not Furnished or Installed under This Section:
   1. Display fixtures, hooks or brackets arms.
   2. Wood Veneer casework.
   3. Gypsum board backup.

1.2 RELATED SECTIONS

A. 09116 Gypsum Board Assemblies

1.3 REFERENCES

A. American Society for Testing and Materials: Standard Specifications (ASTM)
   1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

B. Architectural Woodwork Standards as published by the Architectural Woodwork Institute, the Architectural Woodwork Manufacturers Association of Canada, and the Woodwork Institute.
   1. Architectural Woodwork Standards - Edition 1.

1.4 SUBMITTALS

A. Product Data: Submit sufficient manufacturer's data to indicate compliance with these specifications, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.

B. Shop Drawings: Submit elevations of each wall showing location of paneling and trim members with respect to all discontinuities in the wall elevation.

C. Selection Samples: Submit sample field painted by GC

1. Provide samples of edge trim as applicable.
2. Provide samples for groove insert selection as applicable.

D. Samples for Verification: Submit sample for each component and for each exposed finish required, prepared on samples of size indicated below complete with exposed molding and trim samples. Sample to indicate type, finish, and color specified.
   1. Laminate and printed finishes: Submit 6" (154mm) by 10" (254mm) section of panel for each panel selected indicating the color, texture, and pattern required.
      a. Submit complete with specified applied finish.
      b. For selected patterns show complete pattern repeat.
   2. Painted finishes: Submit 6" (154mm) by 10" (254mm) samples of each type and color.
   3. Wood Veneers: Submit sample sets of [each] wood veneer with stain color and finish required. Sample size approximately 6" (154mm) by 10" (254mm). Sample sets to show the full range of normal color and texture variations expected.
   4. Mirrored Acrylic: Submit 6" (154mm) by 10" (254mm) sample.

E. Manufacturers Material Safety Data Sheets (MSDS) for panels, adhesives prior to their delivery to the site.

F. Maintenance Instructions.

1.5 QUALITY ASSURANCE

A. Conform to building code requirements for interior finish for smoke and flame spread requirements as tested in accordance with:
   1. ASTM E 84 (Method of test for surface burning characteristics of building Materials)
   2. Required Rating – Class [A.] [C.]

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver panels and associated materials factory packaged on strong pallets and properly packaged or protected.
   1. Upon delivery carefully inspect all cartons, packages, pallets and protective wrap for damage or material shortage.
   2. Open and inspect suspect packages, cartons or wrapped pallets for damage.
   3. Contact shipper immediately to report any damaged or missing materials.
   4. Contact Allen Display @ (800) 999-2373 immediately to report any damaged or missing materials.
   5. Contact Allen Display @ (800) 999-2373 with any questions, problems or concerns.

B. Store products in manufacturer's unopened packaging until ready for installation.
   1. Maintain plastic or other protective wrap in place during on site handling until ready for installation.
   2. Keep panels clean and do not stack panels after removal of protection.

C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

A. Wood composite panels are subject to the effects of humidity and temperature. Do not use in kitchens, rest rooms, or other high humidity areas.

B. Partition walls are to be finished and the building completely closed. Walls shall be thoroughly dry and concrete cured and dry before starting installation.

C. HVAC system must be operable and installation area must be balanced to normal operating conditions.

D. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. To ensure product performance, a temperature range of 60°-80°F (16°C-27°C) and a humidity range of 35-55% must be maintained during storage, installation and product life cycle. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 COORDINATION AND SEQUENCING

A. Except as specified by the architect, it's recommended to locate trim members so that panel lines coordinate with doors, headers, jambs and other discontinuities in a wall.

B. Vapor barrier shall be used on exterior walls behind backing to discourage warping.

C. Coordinate with casework manufacturer. Deliver material to the fabrication shop.

1.9 WARRANTY

A. Standard Warranty: All products shall be warranted to be free from defects for a period of 30 days after installation.

PART 2 - PRODUCTS

2.1 BASIS OF DESIGN

A. Marlite Slatwall Panel M-Series; 202 Harger Street, Dover, OH 44622.

2.2 PANEL

A. Panel Configuration: Engineered groove machined into wood composite substrate.
   1. Panel thickness – 3/4" thick with nominal1/2" deep slotted grove.
   2. Panel face dimensions: As indicated on the drawings
   3. Slatwall panels grooves machined on 3" centers

B. High internal bond wood composite substrate. Slatwall panels shall have formaldehyde emissions of 0.3 PPM or less and shall comply with HUD 24 CFR Part 3280 Standards set fourth for particleboard panels.

1. Standard Slatwall
   a. Medium density wood fiberboard conforming to ANSI A208.2, industrial-grade MDF or other wood fiber substrates having not less than 75% recycled wood waste.

2.3 PANEL FINISH

A. Painted Finishes:
   1. Primed Finish: Alkyd primer factory applied and baked creating a suitable surface for field finish in one coat.

2.4 GROOVE TREATMENT AND TRIM

A. Groove Treatment:
   1. Aluminum Insert: Available in Mill finish. Installed in field

B. Panel Trim:
   1. Outside/Inside Corner – Marlite A760 1" x 1 " x 8'- 0" aluminum mill finish
   2. Edge – Marlite A770 1/2" x 3⁄4" x 8'- 0" aluminum mill finish

2.5 INSTALLATION ACCESSORIES

A. Phillips, bugle head, coarse threaded screws required. Install in grooves only and countersink, prior to installing grooves.

B. Adhesives, to be used in addition to mechanical fastners, if desired by contractor:
   1. Marlite Brand SS5262 Heavy Duty C-109 solvent based adhesive unless otherwise approved by Marlite.

2.6 FABRICATION

A. All framing, panels, hardware and accessories shall be factory finished and ready to install except for field fabrication required by perimeter and corner conditions.

B. Refinish field cut panel edges in accordance with manufacturer's instruction before installation.

C. Fabrication Tolerances for panels:
   1. Dimensional: ± 0.0625"
   2. Square: ± 0.125" across diagonals
   3. Thickness: ± 0.008"
   4. Grooving:: ± 0.031" (groove width and spacing between grooves)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Installer's Examination: Examine conditions under which construction activities of this section are to be performed. Submit written notification to Architect and system manufacturer if such conditions are unacceptable. Beginning erection constitutes installer's acceptance of conditions.
   1. Verify that a vapor barrier has been provided on exterior walls behind backing to prevent warping.
   2. Verify backing panels are smooth, solid, and flat. All drywall joints are to be taped and finished.
   3. Verify that walls are primed before installation begins.
   4. Verify mechanical, electrical, and building service and/or items affecting work of this section are placed and ready to receive this work.
   5. Verify that stud spacing does not exceed 24” (600mm) on-center.

B. Structural walls are to be finished, with building completely closed. Walls shall be thoroughly dry before starting installation.

3.2 PREPARATION

A. Conditioning: Panels must be allowed to acclimate to a balanced environment in the installation location for 72 hours prior to installation.

B. Protect existing surfaces with drop cloths.

C. Except as directed by the architectural drawings, before installing, examine panels and arrange to achieve best combination of color, pattern, texture and grain.

3.3 INSTALLATION

A. Install all materials in strict accordance with the manufacturer’s installation instructions with hardware straight, plumb, and level.
   1. Anchor units rigidly and securely in place.
   2. Cut sheets to meet existing supports.

B. Fasten initial bottom panel to the wall with #6 or #7 bugle head drywall screws. Install a minimum of one screw every third slot (or 9" (228mm)) vertically and every stud horizontally, typically every 16" (40.64cm) on centers horizontally (maximum 24" (600mm) on centers horizontally). Each 4' x 8' panel shall have minimum of 42 screws secured to studs or furring.
   1. Where screws do not hit the studs, fasten with adhesive in accordance with the manufacturer’s recommendations.
   2. Screws must be installed thru the panel grooves.
   3. Slatwall panels without inserts do not require pre-drilling.
   4. Slatwall panels with inserts require 5/32" pre-drilling of holes thru the insert and panel before fastening.

C. Avoid contamination of the panel faces with adhesives, solvents or cleaners during installation.

3.4 CLEANING AND PROTECTION

A. Clean and remove dust and other foreign matter from panel and framing surfaces. Clean finishes in accordance with manufacturer's instructions.

END OF SECTION 06 2530

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Cabinet units.

B. Hardware.

1.02 RELATED REQUIREMENTS

A. 061000 - Rough Carpentry; for hidden shelf supports.

B. 062000 - Finish Carpentry.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene one week before starting work of this section in accordance with Section 013000 - Administrative Requirements.
   1. Review preparation and installation procedures and coordinating and scheduling required with related work.

1.04 SUBMITTALS

A. Qualification Data: For fabricator, and installer.

B. Product Data: Provide data for hardware, accessories, and finishes.

C. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
   1. Minimum Scale of Detail Drawings: 1-1/2 inch to 1 foot.
   2. Provide the information required by AWI/AWMAC/WI Architectural Woodwork Standards.

D. Sample: Submit actual samples of Architectural cabinet construction, minimum 12 inches square, illustrating proposed cabinet, countertop, and shelf unit substrate and finish.

E. Hardware Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish.

F. Manufacturer's Installation Instructions: For finishes and hardware. Indicate special preparation of substrate, installation and attachment methods, and perimeter conditions requiring special attention.

G. Maintenance Data: For users operation and maintenance of system including:
   1. Methods for maintaining system's materials and finishes.
   2. Precautions about cleaning materials and methods that could be detrimental to components, finishes, and performance.

1.05 QUALITY ASSURANCE

A. Fabricators Qualifications: Company specializing in performing the work of this section with minimum 5 years experience on projects of similar size and complexity.
   1. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.

B. Installer Qualifications: Company specializing in performing the work of this section with minimum of 5 years experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. As required by the quality standard and fabricator for a warrantable installation of the installed products to meet the Performance and Design Criteria.

PART 2 - PRODUCTS

2.01 DESCRIPTION

A. Custom designed and fabricated casework made of wood and clad with wood veneer or laminates and associated accessories and hardware.

B. Quality Grade: Unless otherwise indicated provide products of quality specified by AWI//AWMAC/WI Architectural Woodwork Standards for Premium Grade.

2.02 MATERIALS

A. Cores:
   1. AWI Premium Grade Veneer Core Plywood: Birch Core, Void Free, manufactured with binder containing no added urea-formaldehyde resin.
      a. Basis of Cost:
         1) ApplePly with Maple Veneer by States Industries.
         2) Finish: Stain with 3 opacity levels: semi-transparent, semi-solid, and solid.
   2. Medium-Density Fiberboard (moisture resistant): manufactured with binder containing no added urea formaldehyde resin.
      a. Basis of Cost:
         1) Sierra Pine Composite Solutions; NAUF FSC Certified Medex
      b. Comparable Manufacturers:
         1) Panel Source International; Purekor NAUF Platinum MDF

B. Wood Facing Materials:
   1. Pre-primed, finger jointed, 1x4 nominal shiplap. Species to be pine, cedar, fir, or other as approved by architect.
   2. Installation: vertical planks, standard reveal shiplap.
   3. Finish: paint

C. Countertop Materials:

1. Plastic Laminate

D. Plastic Laminate Materials:
   1. High Pressure Decorative Laminate (HPDL) with Solid Color Core, Self-Edged.
      a. Basis of Cost:
         1) Formica ColorCore 2
         2) Finish: By Architect from manufacturer's full range.

E. Cabinet Construction: Softwood lumber framing and particle board, tempered hardboard gables.

F. Hardware:
   1. Door and Drawer Pulls: Manufacture's standard. Pulls to be 6" ladder type with brushed stainless-steel finish. ADA compliant.
   2. Drawer Slides: Full Extension, self-closing/stay closed feature extra heavy-duty grade for drawer size indicated. Window seat drawer slides rated for 500 lbs.
      a. Basis of Cost:
         1) Accuride International, Inc.: www.accuride.com.
   3. Hinges: European style, concealed, opening to 135 degrees; soft closing.

G. Countertops:
   1. (PL#) Plastic Laminate Countertops: High pressure decorative laminate sheet bonded to substrate. Premium Grade, in accordance with AWI/AWMAC/WI Architectural Woodwork Standards
      a. Laminate Sheet, Unless Otherwise Indicated: NEMA LD 3 Grade HGS, 0.048 inch nominal thickness.
      b. Surface Burning Characteristics: Flame spread 25, maximum; smoke developed 450, maximum; when tested in accordance with ASTM E84.
      c. Wear Resistance: In addition to specified grade, comply with NEMA LD 3 High Wear Grade requirements for wear resistance.
      d. Finish: Matte or suede, gloss rating of 5 to 20.
      e. Surface Color and Pattern:
         1) Architect to select colors from manufacturer's standards.
         2) Substitutions: See Section 016000 - Product Requirements.
      f. Manufacturers:
         1) Formica Color Core; Architect to select from full line of standard colors.
      g. Self Edged
      h. Back and End Splashes: wall applied PLAM where shown on documents.

2.03 ACCESSORIES

A. All accessory materials required by the manufacturer for a warrantable installation of the installed products in a manner that meets the Performance and Design Criteria.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify existing conditions meet the manufacturer's requirements before starting work.

3.02 PREPARATION

A. Prepare surfaces to receive work in accordance with manufacturer's instructions.

3.03 INSTALLATION

A. General: Install all materials in accordance with manufacturer's instructions based on conditions present.

B. Assemble cabinets and complete fabrication.

C. Anchor cabinets to structure. Secure with countersunk, concealed fasteners
   1. For shop finished items, use color matched wood filler.

D. Install cabinets level, plumb, and true in line to a tolerance of 1/8 inch in 96 inches using concealed shims.
   1. Scribe and cut cabinets to fit adjoining work and repair damaged finish at cuts.
   2. Install cabinets without distortion so doors and drawers fit openings and are accurately aligned.
   3. Maintain veneer sequencing matching of cabinets with transparent finish.

E. Shop Finishes: Touch up finishing after installation or architectural cabinets. Fill nail holes and matching filler.
   1. Apply specified finish coats, including stains and paste fillers if any, to exposed surfaces where only sealer/prime coats are shop applied.

3.04 ADJUSTING

A. Adjust and lubricate hardware for proper operation. Adjust hardware to center doors and drawers in openings ad to provide smooth operation. Complete installation of hardware and accessory items as indicated.

3.05 PROTECTION

A. Protect installed work as required by the manufacturer to maintain product performance, design criteria and warranty.

3.06 SCHEDULE

A. AWI grade “premium grade” veneer faces and edges (where exposed).

B. Full extension drawer slides with soft close. Concealed European-style hinges with soft close.

C. Brushed stainless steel ladder pulls, 6”. Standard silver CAM locks on cabinets and drawers where indicted on drawings. Provide (4) sets of keys to owner.

D. Catalyzed polyurethane varnish gloss to match approved sample.

1. Finish: Clear finish.

E. Description: AWI grade "premium grade" veneer faces and edges (where exposed). Non-exposed substrate per casework manufacturer. Plastic laminate surfaces per schedule below. Architect to select from manufacturer's full range.

F. Cabinet construction style: Flush overlay; Refer to interior elevation for style.

G. Casework Finish Schedule:
1. Location: Staff Workroom Casework
   a. Per plans and casework drawings.
   b. Construction: All door and cabinet edges and end panels to be self-edged in plastic laminate to match doors.
   c. Associated countertop: Self-edged PLAM
   d. Hardware: Stainless steel.

2. Location: Meeting Room Casework:
   a. Per plans and casework drawings.
   b. Construction: All door and cabinet edges and end panels to be self-edged in plastic laminate to match doors.
   c. Associated countertop: Self-edged PLAM
   d. Hardware: Stainless steel.

3. Location: Staff Breakroom Casework:
   a. Per plans and casework drawings.
   b. Construction: All door and cabinet edges and end panels to be self-edged in plastic laminate to match doors.
   c. Associated countertop: Self-Edge PLAM
   d. PLAM backsplash
   e. Hardware: Stainless steel.

4. Location: Library of Things Casework:
   a. Per plans and casework drawings.
   b. Construction: All door and cabinet edges and end panels to be self-edged in plastic laminate to match doors.
   c. Hardware: Stainless steel.

5. Location: Staff Circulation Desk:
   a. Per plans and casework drawings.
   b. Construction: Desk to be self-edged in plastic laminate. Plastic laminate grain to as indicated in drawings. Partial height wall to be clad in painted shiplap.
   c. Hardware: Stainless steel.

6. Location: Display Shelf:
   a. Per plans and casework drawings.

b. Construction: All drawer and cabinet edges and end panels to be self-edged in plastic laminate to match drawers.
c. Hardware: Stainless steel.

7. Location: Self-Checkout:
   a. Per plans and casework drawings.
   b. Construction: All door and cabinet edges and end panels to be self-edged in plastic laminate to match door.
   c. Hardware: Stainless steel.

8. Location: Kids Area Bookshelf:
   a. Per plans and casework drawings.
   b. Construction: Shelves and boxes to be painted MDF. Decorative backdrop to be premium grade veneer core plywood.
   c. Hardware: Stainless steel.

END OF SECTION

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Sealants for interior surfaces.

1.02 SUBMITTALS

A. Product Data: Provide data indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.

B. Preliminary Selection Sample: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.

C. Field Samples for Confirmation: provide sealant samples in the color selected based on Manufacturer's charts for sealants. Field samples shall be minimum 12 inches long and installed at joints intended for each particular sealant use. Mockup and field samples will be used to confirm sealant color selection.

D. Manufacturer's Installation Instructions: Indicate special preparation of substrate, installation and attachment methods, and perimeter conditions requiring special attention.

E. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

F. Maintenance Data: For users operation and maintenance of system including:
   1. Methods for maintaining system's materials and finishes.
   2. Precautions about cleaning materials and methods that could be detrimental to components, finishes, and performance.
   3. Recommendations on maintenance schedule.

1.03 QUALITY ASSURANCE

A. Manufacturer Qualification: Company specializing in the manufacture of work specified in this section with minimum 5 years experience.

B. Source Limitations: Obtain each type of joint sealant through one source from a single manufacturer.

1.04 DELIVERY, STORAGE, AND HANDLING

A. As required by the manufacturer for a warrantable installation of the installed products to meet the Performance and Design Criteria.

PART 2 - PRODUCTS

2.01 DESCRIPTION

A. Joint sealers for properly designed joints in interior materials; selected for durability, movement capacity, adhesion to substrates and non-staining characteristics.

B. Interior Sealants: Provide elastomeric joint sealants at vertical surfaces and horizontal non-traffic surfaces and horizontal traffic surfaces that establish and maintain continuous joint seals without staining or deteriorating joint substrates.
   1. Basis of Cost: Silicone products by Dow Corning Corp, ChemRex Inc, Tremco Inc. or a comparable manufacturer.

2.02 PERFORMANCE AND DESIGN CRITERIA

A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by sealant manufacturer, based on testing and field experience.

B. Colors of Exposed Joint Sealants As selected by Architect from manufacturer's full range.

C. Elastomeric Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied chemically curing sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.

D. Stain-Test-Response Characteristics: Where elastomeric sealants are specified to be non-staining to porous substrates, provide products that have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for Project.

2.03 MATERIALS

A. Sealants for interior surfaces:
   1. (S-10): General Purpose Interior Sealant: polyurethane; ASTM C 920, Grade NS, Class 25, Uses NT, M, G, A and O; single, or multi- component, paintable.
      a. Color: Standard colors matching finished surfaces.
      b. Product: Dymonic FC, Dymeric 240FC by Tremco Inc.
      c. Designed for interior movement and non-moving joints adjacent to painted surfaces.
   2. (S-11): Plumbing fixtures; ASTM C 920, Uses M and A; single component, mildew resistant.
      a. Colors other than white may be required.
      b. Product: Tile & Ceramic Silicone Sealant manufactured by Dow.
      c. Sealant Used in Food preparation area must be USDA approved for that use.
   3. (S-12): Acoustical Sealant: Butyl or acrylic sealant; ASTM C 920, Grade NS, Class 12-1/2, Uses M and A; single component, solvent release curing, non-skinning.
      a. Product: Tremco "Acoustical Sealant".
      b. Tested as part of acoustical assemblies.
   4. (S-13): Interior Floor Joint Sealant: Polyurethane, self-leveling; ASTM C 920, Grade P, Class 25, Uses T, M and A; single or multi- component.

a. Approved by manufacturer for wide joints up to 1-1/2 inches.
b. Color: Standard colors matching finished surfaces.
c. Product: Vulkem 45 SSL by Tremco Inc.
d. Designed for exposed, trafficked joints with pourable self-leveling installation.

2.04 ACCESSORIES

A. Joint sealant backing:
1. General: Provide sealant backings of material and type that are non-staining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
2. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin) O (open-cell material) B (bicellular material with a surface skin) or any of the preceding types, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance:
3. Elastomeric Tubing Sealant Backings: Neoprene, butyl, EPDM, or silicone tubing complying with ASTM D 1056, nonabsorbent to water and gas, and capable of remaining resilient at temperatures down to minus 26 deg F. Provide products with low compression set and of size and shape to provide a secondary seal, to control sealant depth, and to otherwise contribute to optimum sealant performance.
4. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint where such adhesion would result in sealant failure. Provide self-adhesive tape where applicable.

B. Miscellaneous Materials:
1. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
2. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
3. Masking Tape: Non-staining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

C. All accessory materials required by the manufacturer for a warrantable installation of the installed products in a manner that meets the Performance and Design Criteria.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify existing conditions meet the manufacturer's requirements before starting work.

3.02 PREPARATION

A. Prepare surfaces to receive work in accordance with manufacturer's instructions.

3.03 INSTALLATION

A. General: Install all materials in accordance with manufacturer's instructions based on conditions present.

3.04 PROTECTION

A. Protect installed work as required by the manufacturer to maintain product performance, design criteria and warranty.

3.05 SCHEDULE

A. Sealants for interior surfaces:
   1. (S-10): Typical Interior Sealant: moving and non-moving Interior wall and ceiling control joints, smoke rated (but not fire rated) partitions.
   2. (S-11): Joints between plumbing fixtures and floor and wall surfaces.
   3. (S-12): Use for concealed locations only. Sealant bead between top stud runner and structure and between bottom stud track and floor at any wall designated as acoustical.
   4. (S-13): Control joints in floors.

END OF SECTION

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Full-lite wood doors and associated solid wood frame

B. Door hardware

1.02 RELATED REQUIREMENTS

A. 088000 – Glazing: for glazing installed in wood doors

1.03 SUBMITTALS

A. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes.

B. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles.

C. Sample: Submit two samples face material, manufacturer's standard size showing factory finishes, colors, and surface texture.

D. Manufacturer's Installation Instructions: Indicate special preparation of substrate, installation and attachment methods, and perimeter conditions requiring special attention.

E. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

F. Maintenance Data: For users operation and maintenance of system including:
   1. Methods for maintaining system's materials and finishes.
   2. Precautions about cleaning materials and methods that could be detrimental to components, finishes, and performance.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
   1. Company with at least one project in the past 5 years with value of woodwork within 20 percent of cost of woodwork for this Project.

1.05 DELIVERY, STORAGE, AND HANDLING

A. As required by the manufacturer for a warrantable installation of the installed products to meet the Performance and Design Criteria.

1.06 WARRANTY

A. Interior Doors: Provide manufacturer's warranty for the life of the installation.
   1. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Specification is based LD2000 GreenDoor by Lynden Door.
   1. Comparable products by one of the following are also acceptable. See Section 016000 - Product Requirements for submittal requirements.
      a. ReCore Doors.

2.02 DESCRIPTION

A. Solid core full lite wood doors, interior use. Manufacturer to provide matching wood frame.

B. General: AWI Custom Grade, 1 ¾" thick, PC-5 construction, solid hardwood edge stiles to match face veneers without finger jointing. Premium grade Maple veneer, slip matched.

2.03 PERFORMANCE AND DESIGN CRITERIA

A. Comply with ANSI/ICC A117.1. Accessibility Code.

B. Quality Level: Custom Grade, Extra Heavy Duty performance, in accordance with WDMA I.S.1-A for all doors with the following exceptions.

C. Construction: Flush wood door

D. Acoustical Rating for Doors: Where indicated in door schedule on Drawings, provide STC 30 minimum with insulated glazing and perimeter gaskets tested by manufacturer.

E. Vertical Edges: Paint Grade

F. Edge type (AWI "E" type) edge set in between door face veneers.

G. Door Edge Profile: Beveled on both edges.

H. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.

I. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.

J. Source Limitations: For doors and frames, obtain products from single source from single manufacturer.

K. Provide hardware preparation in accordance with BHMA A156.115, with reinforcement welded in place, in addition to other requirements specified in door grade standard. Coordinate with Section 087100 - Door Hardware.

2.04 MATERIALS

A. Extra heavy core paint grade wood doors and wood frame

B. Cores:
1. Cores Constructed with stiles and rails:
a. Provide solid blocks for hardware reinforcement.
b. Provide solid blocking for other throughbolted hardware.
2. Non-Rated Solid Core and 20 Minute Rated Doors: Type No Added Urea Formaldehyde particleboard core (PC), plies and faces as indicated above.
3. Sound Retardant Core: Equivalent to Type PC construction with core as required to achieve rating specified; plies and faces as indicated above.

C. Non-fire-rated wood doors.
1. Features:
a. Thickness: 1-3/4 inches.
b. Core: Solid.
c. Facing Material:
1) Shop primed for field painting.
d. Color/Finish: To be selected from manufacturer's full range.
e. Glazed Lights: 1” acoustic glazing as indicated in specifications and drawings. Fully set in acoustic sealant and provide secure glazing stops on secure side of door.
1) Glazing: see Section 088000 - Glazing.

2.05 ACCESSORIES AND HARDWARE

A. All accessory materials required by the manufacturer for a warrantable installation of the installed products in a manner that meets the Performance and Design Criteria.

B. Door Hardware to Include:
1. National Guard Products, Inc: Low Profile Sound Rated Lite Kit
2. National Guard Products, Inc: STC Seal Set #4
a. 5075 Seal at jambs and header
b. 5060 Seal at jambs and header
c. 60FP (x2) Lower corner frame infill
d. 12T6 x STC-FH Door shoe with STC fastener Holes
e. 8144S Threshold
3. Full Mortise Heavy Weight Hinges, McKinney T4A3786 4’-1/2” x 4’-1/2”
4. Corbin Russwin CL3100 Series level lockset, classroom function, Armstrong Lever
5. Surface mounted closer, Sargent 1430 on pull side of door
6. Dome Stop

2.06 FINISHING

A. Factory Finish: Shop prime for field painting.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify existing conditions meet the manufacturer's requirements before starting work.

3.02 PREPARATION

3.03 INSTALLATION

A. General: Install all materials in accordance with manufacturer's instructions based on conditions present.

B. Field-Finished Doors: Trimming to fit is acceptable.
   1. Adjust width of non-rated doors by cutting equally on both jamb edges.
   2. Trim maximum of 3/4 inch off bottom edges.

C. Coordinate installation of hardware.

D. Touch up damaged finishes.

3.04 TOLERANCES

A. Conform to specified quality standard for fit and clearance tolerances.

B. Conform to specified quality standard for telegraphing, warp, and squareness.

3.05 ADJUSTING

A. Adjust and lubricate hardware for proper operation.

B. Adjust for smooth and balanced door movement in accordance with manufacturer's instructions.

3.06 PROTECTION

A. Protect installed work as required by the manufacturer to maintain product performance, design criteria and warranty.

3.07 SCHEDULE

A. Per door schedule

END OF SECTION

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Acoustic Glass Lite for door.

B. Glazing compounds and accessories.

1.2 RELATED REQUIREMENTS

A. Section 081416 – Full lite doors

1.3 SUBMITTALS

A. Product Data on Glazing Compounds: Provide chemical, functional, and environmental characteristics, limitations, special application requirements. Identify available colors.

B. Samples: Submit two samples 6 x 6 inch in size of each type of glass and plastic units, showing coloration and design.

C. Certificates: Certify that products meet or exceed specified requirements.

1.4 QUALITY ASSURANCE

A. Perform Work in accordance with GANA Glazing Manual and FGMA Sealant Manual for glazing installation methods.

B. Installer Qualifications: Company specializing in performing the work of this section with minimum 5 years documented experience.

1.5 FIELD CONDITIONS

A. Do not install glazing when ambient temperature is less than 50 degrees F.

B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

PART 2 - PRODUCTS

2.1 GLASS MATERIALS

A. Float Glass: All glazing is to be float glass unless otherwise indicated.
   1. Annealed Type: ASTM C1036, Type I, transparent flat, Class 1 clear, Quality Q3 (glazing select).
   2. Tinted Types: Color and performance characteristics as indicated.
   3. Thicknesses: As indicated; for exterior glazing comply with specified requirements for

wind load design regardless of specified thickness.

B. Heat Strengthened and Fully Tempered Glass:
   1. Fully Tempered Safety Glass: Comply with 16 CFR 1201 test requirements for Category II.
   2. Heat-Strengthened and Fully Tempered Types: ASTM C1048.
   3. By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
   4. Roll Wave Maximum Distortion Tolerance:.003" target with.005" maximum peak to valley measurement
   5. Bow and Warp Maximum Tolerance: 50 percent of the maximum allowed in ASTM C 1048

2.2 INSULATED GLAZING UNITS

A. Fabricator:
   a. Any fabricator certified by glass manufacturer for type of glass, coating, and treatment involved and capable of providing specified performance, features, and warranty.
B. Sealed Insulated acoustic glazing unit:
   a. Performance
      i. IGU with STC Rating of 39: 1/8" glass/0.030" PVB/1/8" glass + ½" air + ¼" glass
      ii. Durability: Certified by an independent testing agency to comply with ASTM E2190.
      iii. IGU Performance: IGUs without spandrel glass to comply with ASTM E2188.
      iv. Resistance to Fogging: IGUs without spandrel glass to comply with ASTM E2189.
      v. Edge Spacers: Material as required to meet performance criteria listed for assemblies.
         1. Color: Black.
      vi. Edge Seal: Glass to elastomer with supplementary silicone sealant.
         1. Color: Black.
      vii. Air Space: per assembly below

2.3 GLAZING COMPOUNDS

A. Silicone Sealant: Single component; neutral curing; capable of water immersion without loss of properties; non-bleeding, non-staining; ASTM C 920, Type S, Grade NS, Class 25, Uses M, A, and G; cured Shore A hardness of 15 to 25; color as selected.

2.4 GLAZING ACCESSORIES

A. Setting Blocks: Neoprene, 80 to 90 Shore A durometer hardness, ASTM C 864 Option
   1. Length of 0.1 inch for each square foot of glazing or minimum 4 inch x width of glazing rabbet space minus 1/16 inch x height to suit glazing method and pane weight and area.

B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness, ASTM C 864 Option
   1. Minimum 3 inch long x one half the height of the glazing stop x thickness to suit application, self-adhesive on one face.

C. Glazing Gaskets: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C 864

Option I; color as selected.

D. Glazing Clips: Manufacturer's standard type.

E. Glazing Channels: CRLaurence Co. Inc Wet Glaze Channels. 1 inch deep base channel, 2 inch top channel unless indicated otherwise.

F. Continuous acoustic sealant or barrier at all sides of lite.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that openings for glazing are correctly sized and within tolerance.

3.2 PREPARATION

A. Clean contact surfaces with solvent and wipe dry.

B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.

C. Prime surfaces scheduled to receive sealant.

D. Install sealants in accordance with ASTM C1193 and GANA Sealant Manual.

E. Install sealant in accordance with manufacturer's instructions.

3.3 CLEANING

A. Remove glazing materials from finish surfaces.

B. Remove labels after Work is complete.

C. Clean glass and adjacent surfaces.

3.4 PROTECTION

A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.

END OF SECTION

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Performance criteria for gypsum board assemblies.

B. Metal stud wall framing.

C. Metal channel ceiling framing.

D. Acoustic insulation.

E. Gypsum wallboard.

F. Joint treatment and accessories.

1.2 RELATED REQUIREMENTS

A. Section 079005 - Joint Sealers: Sealant.

1.3 SUBMITTALS

A. Shop Drawings: Indicate special details associated with fireproofing and acoustic seals.

B. Product Data: Provide data on metal framing, gypsum board, accessories, joint finishing system, and cement board.

C. Test Reports: For all stud framing products that do not comply with ASTM C645 or C 754, provide independent laboratory reports showing maximum stud heights at required spacings and deflections.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing gypsum board application and finishing, with minimum 5 years of documented experience.

PART 2 - PRODUCTS

2.1 GYPSUM BOARD ASSEMBLIES

A. Provide completed assemblies complying with ASTM C840 and GA-216.
   1. See 3.5C for finishing requirements.

B. Interior partitions indicated as acoustic: Provide completed assemblies with STC ratings as noted on the drawings.

2.2 BOARD MATERIALS

A. Manufacturers - Gypsum-Based Board:
   1. CertainTeed Corporation: www.certainteed.com.
   2. Georgia-Pacific Gypsum: www.gpgypsum.com.
   3. National Gypsum Company: www.nationalgypsum.com.
   4. Temple-Inland Inc: www.templeinland.com.
   5. USG Corporation: www.usg.com.

B. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
   1. Application: Use for vertical surfaces, unless otherwise indicated.
   2. Thickness: as indicated on drawings.
   3. Paper-Faced Products:
      a. CertainTeed Corporation; ProRoc Brand Gypsum Board.
      b. Georgia-Pacific Gypsum; ToughRock, ToughRock Fireguard, and ToughRock FireGuard C Gypsum Wallboard.
      c. Temple-Inland Inc; Gypsumboard and.
      d. USG Corporation; Sheetrock Brand Gypsum Panels.
      e. Substitutions: See Section 016000 - Product Requirements.

C. Ceiling Board: Special sag-resistant gypsum ceiling board as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
   1. Application: Ceilings, unless otherwise indicated.
   2. Thickness: 1/2 inch.
   3. Edges: Tapered.
   4. Products:
      a. Temple-Inland Inc; Span24 Ceiling Board.
      b. USG Corporation; Sheetrock Brand Sag-Resistant Interior Gypsum Ceiling Board.
      c. Substitutions: See Section 016000 - Product Requirements.

2.3 ACCESSORIES

A. Acoustic Insulation: ASTM C665; preformed glass fiber, friction fit type, unfaced. Thickness: 3.5 inches. Unless noted otherwise.

B. Sealant: As specified in Section 079005.

C. Finishing Accessories: ASTM C1047, galvanized steel or rolled zinc, unless otherwise indicated.
   1. Types: As detailed or required for finished appearance.
   2. Special Shapes: In addition to conventional corner bead and control joints, provide U-bead at exposed panel edges.
   3. Fry Reglet GWB edges and trims
   4. "F" reveal molding

5. "Z" reveal molding
6. control joint
7. corner trim
8. drywall molding end closure
9. ceiling trim

D. Joint Materials: ASTM C475 and as recommended by gypsum board manufacturer for project conditions.
1. Tape: 2 inch wide, coated glass fiber tape for joints and corners, except as otherwise indicated.
2. Tape: 2 inch wide, creased paper tape for joints and corners, except as otherwise indicated.
3. Typical: Ready-mixed vinyl-based joint compound.
4. Exterior Soffits: Chemical hardening type compound.

E. High Build Drywall Surfacer: Vinyl acrylic latex-based coating for spray application, designed to take the place of skim coating and separate paint primer in achieving Level 5 finish.

F. Anchorage to Substrate: Tie wire, nails, screws, and other metal supports, of type and size to suit application; to rigidly secure materials in place.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that project conditions are appropriate for work of this section to commence.

3.2 ACOUSTIC ACCESSORIES INSTALLATION

A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.

B. Acoustic Sealant: Install in accordance with manufacturer's instructions.

3.3 BOARD INSTALLATION

A. Comply with ASTM C 840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.

B. Fire-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.

C. Exterior Sheathing: Comply with ASTM C1280. Install sheathing vertically, with edges butted tight and ends occurring over firm bearing.

D. Exterior Soffit Board: Install perpendicular to framing, with staggered end joints over framing members or other solid backing.

E. Cementitious Backing Board: Install over steel framing members and plywood substrate where indicated, in accordance with ANSI A108.11 and manufacturer's instructions.

F. Installation on Metal Framing: Use screws for attachment of all gypsum board except face layer of non-rated double-layer assemblies, which may be installed by means of adhesive lamination.

G. Moisture Protection: Treat cut edges and holes in moisture resistant gypsum board and exterior gypsum soffit board with sealant.

3.4 INSTALLATION OF TRIM AND ACCESSORIES

A. Control Joints: Place control joints consistent with lines of building spaces and as indicated.
1. Not more than 30 feet apart on walls and ceilings over 50 feet long.
2. At exterior soffits, not more than 30 feet apart in both directions.

B. Corner Beads: Install at external corners, using longest practical lengths.

C. Edge Trim: Install at locations where gypsum board abuts dissimilar materials and as indicated.

3.5 JOINT TREATMENT

A. Glass Mat Faced Gypsum Board and Exterior Glass Mat Faced Sheathing: Use fiberglass joint tape, bedded and finished with chemical hardening type joint compound.

B. Paper Faced Gypsum Board: Use paper joint tape, bedded with ready-mixed vinyl- based joint compound and finished with ready-mixed vinyl-based joint compound.

C. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
1. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.
   a. down or up lighting or natural critical lighting
   b. walls or ceilings scheduled for dark colored finishes
   c. Walls or ceilings subject to strong side (low angle) lighting
2. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
3. Level 3: In utility areas, behind cabinetry, and on backing board to receive tile finish.
4. Level 1: Fire rated wall areas above finished ceilings, whether or not accessible in the completed construction.
5. Level 0: Temporary partitions and surfaces indicated to be finished in later stage of project.

D. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
1. Feather coats of joint compound so that camber is maximum 1/32 inch.

E. Where Level 5 finish is indicated, spray apply high build drywall surfacer over entire surface after joints have been properly treated; achieve a flat and tool mark-free finish.

F. Fill and finish joints and corners of cementitious backing board as recommended by manufacturer.

3.6 FIELD OBSERVATION AT "PUNCH"

A. Finish will be judged from a viewing difference of 4 feet.

B. Ceilings will be viewed from a standing position.

C. Finished lighting system or temporary lighting similar to proposed finished lighting should be used for judging the wall.

3.7 TOLERANCES

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

B. Eye catching discrepancies and or blemishes are not allowed.

C. "Fuzzy" wall board surfaces will not be accepted.

END OF SECTION

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Carpet tile.
B. Rubber Base

1.2 SUBMITTALS

A. Shop Drawings: Indicate layout of joints.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.

C. Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.

D. Manufacturer's Installation Instructions: Indicate special procedures.

E. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.

F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
1. Extra Carpet Tiles: Quantity equal to 5 percent of total installed of each color and pattern installed.

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing specified carpet tile with minimum three years documented experience.

B. Installer Qualifications: Company specializing in installing carpet with minimum 3 years experience.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Carpet Tile: manufactured in one color dye lot.
1. Product: Mohawk Nylon Modular Carpet
2. Collection: Shape & Flow
3. Style Name: Flux Foundation BT585
4. Color: 959 Channel
5. Tile Size: 24in x 24in, nominal.
6. Substitution of carpet will not be approved.

2.2 ACCESSORIES

A. Sub-Floor Filler: White premix latex; type recommended by flooring material manufacturer.

B. Edge Strips: Brass to match existing

C. Adhesives: Acceptable to carpet tile manufacturer, compatible with materials being adhered; maximum VOC content as specified in Section 016116.

D. Rubber Base:

1. Manufacturer: Roppe
2. Model: Pinnacle
3. Description: 4" tall, no toe, color to be selected from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that sub-floor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.

B. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to sub-floor surfaces.

C. Cementitious Sub-floor Surfaces: Verify that substrates meet requirements of flooring and adhesive manufacturers by testing for moisture, internal relative humidity and alkalinity.
1. Obtain instructions if test results are not within limits recommended by flooring material manufacturer and adhesive materials manufacturer.

D. Verify that required floor-mounted utilities are in correct location.

3.2 PREPARATION

A. Remove existing carpet tile.

B. Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with sub-floor filler.

C. Apply, trowel, and float filler to achieve smooth, flat, hard surface. Prohibit traffic until filler is cured.

D. Vacuum clean substrate.

3.3 INSTALLATION

A. Starting installation constitutes acceptance of sub-floor conditions.

B. Install carpet tile in accordance with manufacturer's instructions and CRI Carpet Installation Standard.

C. Blend carpet from different cartons to ensure minimal variation in color match.

D. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.

E. Lay carpet tile in vertical ashlar pattern, with pile direction parallel to next unit, set parallel to building lines.

F. Trim carpet tile neatly at walls and around interruptions.

G. Complete installation of edge strips, concealing exposed edges.

H. Stagger joints of carpet tiles so carpet tile grid is offset from access flooring panel grid. Do not fill seams of access flooring panels with carpet adhesive; keep seams free of adhesive.

3.4 CLEANING

A. Remove excess adhesive without damage, from floor, base, and wall surfaces.

B. Clean and vacuum carpet surfaces.

END OF SECTION

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Surface preparation.

B. Field application of paints, and other coatings.

C. Materials for back priming woodwork.

D. Scope: Finish all interior surfaces exposed to view, unless fully factory- finished and unless otherwise indicated.

E. Do Not Paint or Finish the Following Items:
1. Items fully factory-finished unless specifically so indicated; materials and products having factory-applied primers are not considered factory finished.
2. Items indicated to receive other finishes.
3. Items indicated to remain unfinished.
4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
5. Stainless steel, anodized aluminum, bronze, and lead items.
6. Floors.
7. Ceramic and other tiles.
8. Glass.
9. Acoustical materials, unless specifically so indicated.
10. Concealed pipes, ducts, and conduits.

1.2 DEFINITIONS

A. Conform to ASTM D 16 for interpretation of terms used in this section.

1.3 SUBMITTALS

A. Product Data: Provide data on all finishing products, including VOC content.

B. Verification Samples: Submit three painted samples, illustrating selected colors and textures for each color and system selected with specified coats cascaded. Submit on final substrate, 8x10 inch in size.

C. O and M submittal.
1. 8-1/2" X 11" card, painted on one side, paint color formula on the other, and availability information and any "custom" property of the product for each paint color and texture used on the project

D. Certification: By manufacturer that all paints and coatings comply with VOC limits specified.

E. Certification: By manufacturer that all paints and coatings do not contain any of the prohibited

chemicals specified; GreenSeal GS-11 certification is not required but if provided shall constitute acceptable certification.

F. Manufacturer's Instructions: Indicate special surface preparation procedures.

G. Maintenance Data: Submit data on cleaning, touch-up, and repair of painted and coated surfaces.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in the manufacture of paint and coating products used in the work of this section with minimum ten years experience.

B. Applicator Qualifications: Company specializing in performing the work of this section with minimum five years experience. Provide written documentation.

1.5 REGULATORY REQUIREMENTS

A. Conform to applicable code for flame and smoke rating requirements for products and finishes.

1.6 MOCK-UP

A. Paint one wall (from corner to corner) of selected rooms to serve as a mock up.

B. Locate where directed.

C. Mock-up may remain as part of the work.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: manufacturer generated label. Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.8 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

C. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer or above 85%

D. Minimum Application Temperatures for Latex Paints: 50 degrees F for interiors; 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.

E. Minimum Application Temperature for Varnish Finishes: 65 degrees F for interior or exterior, unless required otherwise by manufacturer's instructions.

F. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Provide all paint and coating products used in any individual system from the same manufacturer; unless noted otherwise below.

B. Paints:
   1. B-M: Benjamin Moore & Co: www.benjaminmoore.com

C. Substitutions: See Section 016000 - Product Requirements.

2.2 PAINTS AND COATINGS - GENERAL

A. Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.
   1. Provide paints and coatings of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
   2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
   3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.
   4. Supply each coating material in quantity required to complete entire project's work from a single production run.
   5. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.
   6. "Dry-fall" or other similar paint product formulation may be required depending upon the location and are allowed but must be submitted.

B. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.

C. Volatile Organic Compound (VOC) Content:
   1. Provide coatings that comply with the most stringent requirements specified in the following:
      a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
   2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.

D. Mil thickness below is measured as dry film thickness or "dft"
   1. dft measurements are given "per coat".
   2. If no thickness is given or it is blank assume manufacture's recommended thickness. If manufacturer's recommended thickness is greater than listed use the manufacturer's recommended thickness.

E. Colors: to be selected by architect. Four accent colors in addition to field white.
   1. Extend colors to surface edges; colors may change at any edge as directed by Architect.
   2. In finished areas, finish pipes, ducts, conduit, and equipment the same color as the wall/ceiling they are mounted on/under.
   3. In utility areas, finish equipment, piping, conduit, and exposed duct work in colors according to the color coding scheme indicated.

F. Degree of Gloss to be confirmed with Owner's Representative prior to paint acquisition. MPI Gloss levels shall be used as the basis for determining gloss in general. Specific manufacturer's gloss levels may vary within 5 units for levels above flat. Gloss is measured at an angle of incidence of 60d
   1. Flat: Gloss max 5 units
   2. Eggshell: Gloss 10-25 units
   3. Satin: Gloss 25-30 units
   4. Semi-gloss: Gloss 35 to 70 units
   5. Gloss: Gloss 70-85 units
   6. High Gloss: Gloss more than 85 units

2.3 PAINT SYSTEMS - INTERIOR

A. General: The standard color for non-public areas is Benjamin-Moore OC-117 "simply white". KCLS standard paint products are Benjamin Moore as follows:
   1. Interior Gypsum Wall Board
      a. Primer: 046 Fresh Start 100% Acrylic Superior Primer
      b. Top coat: 526 Aura Waterborne Satin (2 coats min.)

B. Interior Wood Surfaces
   1. Primer: 046 Fresh Start 100% Acrylic Superior Primer
   2. Top coat: 794 Advance Gloss (2 coats min.)

C. Interior Metal
   1. Primer: P04 Super Spec HP Acrylic Metal Primer
   2. Top coat: 526 Aura Waterborne Satin (2 coats min.)

2.4 ACCESSORY MATERIALS

A. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve the finishes specified; commercial quality. To be of the best quality available.

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

2.5 PAINT WASHING SYSTEM

A. Manufacturer Glidden Professional Paints Toll Free (800) 454-3336. Contact: Terry Decker 206.354.0179 terry. decker@gliddenprofessional.com
   1. Glidden Professional Paints Lifemaster Wash System.
   2. Select paint washings wash system model appropriate for project needs:
      a. Models: LS40, LS120, and LS200.

B. Paint Washing System converts waterborne paint washings from paint brushes, rollers, and other painting tools and equipment into recyclable clear water and inert solid waste by a chemical treatment process of flocculation and separation.
   1. Recyclable Clear Water: Recycle clear water back into paint washings wash system or dispose of in accordance with environmental regulations and as specified in Section 017419
   2. Inert Solid Waste: Dispose of inert solid waste in accordance with environmental regulations and as specified in Section 017419

PART 3 - EXECUTION

3.1 EXAMINATION

A. Do not begin application of coatings until substrates have been properly prepared.

B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
   1. Painting trade contractor shall acquaint himself with substrates to receive surface finishes that may be encountered in the Work.

D. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

E. Test shop-applied primer for compatibility with subsequent cover materials.

F. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
   1. Gypsum Wallboard: 12 percent.
   2. Interior Wood: 15 percent, measured in accordance with ASTM D 4442.

3.2 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to coating application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Remove or repair existing coatings that exhibit surface defects.

D. Initial cleaning and preparation by other trades.
   1. It is expected that degreasing and cleaning has been NOT performed by the installing trade, this work and final dusting and minor preparation of all materials, especially those at or near the ceiling, will have to be performed prior to finishing.

E. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.

F. Surfaces: Correct defects and clean surfaces which affect work of this section. Remove or repair existing coatings that exhibit surface defects.

G. Seal surfaces that might cause bleed through or staining of topcoat.

H. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.

I. Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair.

J. MDF Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair.

K. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
   1. Wash all material that has traveled overseas or been stored near salt water with soap and water prior to primer touch-up and finish.

L. Interior Wood Surfaces to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats. Back prime concealed surfaces before installation.

3.3 APPLICATION

A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

B. Apply products in accordance with manufacturer's instructions.

C. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.

D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

E. Apply each coat to uniform appearance.

F. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply as many coats as necessary for complete hide.

G. Sand wood and metal surfaces lightly between coats to achieve required finish.

H. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

I. Wood to Receive Transparent Finishes: Tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.

J. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.4 FINISHING MECHANICAL AND ELECTRICAL EQUIPMENT

A. Refer to Divisions 21 thru 28 for any color coding of equipment, duct work, piping, and conduit.

B. Paint shop-primed equipment, where indicated.

C. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

D. Louvers, grilles in or on walls shall be painted to match wall surface.

E. Louvers, grilles at exposed ductwork to be galvanized or painted to match ductwork.

F. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.5 FIELD QUALITY CONTROL

A. See Section 014000 - Quality Requirements, for general requirements for field inspection.

B. Owner will provide field inspection and testing.

3.6 CLEANING

A. Promptly remove paint where spilled, splashed, or spattered

B. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.7 PROTECTION

A. Protect finished coatings until completion of project.

B. Touch-up damaged coatings after Substantial Completion.

3.8 SCHEDULE - SURFACES TO BE FINISHED

A. Paint new study room's walls and ceiling, protect existing natural wood window trim in place
B. Paint new Staff workroom walls and ceiling
C. Paint new wall in the reading room
D. Schedule below may be modified or added to by the finish legend located in the Finish Schedule and drawings, both of which have precedence over the listing below.

3.9 SCHEDULE – COLORS AND SHEEN
A. Match Existing colors and sheens; where patching existing elements
B. Benjamin Moore OC 117 Simply White at staff workroom and interior of study room
    1. Flat on Ceilings
    2. Eggshell on Walls
    3. Satin on Trim
C. Accent Color 1 New Study Room Door and frame
    1. Satin

END OF SECTION

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Room identification signs.

1.2 SUBMITTALS

A. Product Data: Manufacturer's printed product literature for each type of sign, indicating sign styles, font, foreground and background colors, locations, overall dimensions of each sign.

B. Signage Schedule: Provide information sufficient to completely define each sign for fabrication, including room number, room name, other text to be applied, sign and letter sizes, fonts, and colors.
   1. When content of signs is indicated to be determined later, request such information from Owner through Architect at least 2 months prior to start of fabrication; upon request, submit preliminary schedule.
   2. Submit for approval by Owner through Architect prior to fabrication.

C. Mock-ups: Submit two samples of each type of sign, of size similar to that required for project, illustrating sign style, font, and method of attachment.

D. Selection Samples: Where colors are not specified, submit two sets of color selection charts or chips.

E. Verification Samples: Submit samples showing colors specified.

F. Manufacturer's Installation Instructions: Include installation templates and attachment devices.

G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Package signs as required to prevent damage before installation.

B. Package room and door signs in sequential order of installation, labeled by specific location.

C. Store tape adhesive at normal room temperature.

1.5 FIELD CONDITIONS

A. Do not install adhesive when ambient temperature is lower than recommended by manufacturer.

B. Maintain this minimum temperature during and after installation of signs.

PART 2 - PRODUCTS

2.1 SIGNAGE APPLICATIONS

A. Accessibility Compliance: All signs are required to comply with ADA Standards for Accessible Design and ANSI/ICC A 117.1 and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.

2.1 PERFORMANCE AND DESIGN CRITERIA

A. Tactile and Braille Characters: Text and symbols complying with ADA-ABA Accessibility Guidelines and with ICC/ANSI A117.1. Produce precisely formed characters with square-cut edges free from burrs and cut marks. Text shall be accompanied by Grade 2 Braille. Braille dots with domed or rounded shape produced using Raster Method.

B. 1. Raised-Copy Thickness: Not less than 0.7 mm and not more than 3 mm.

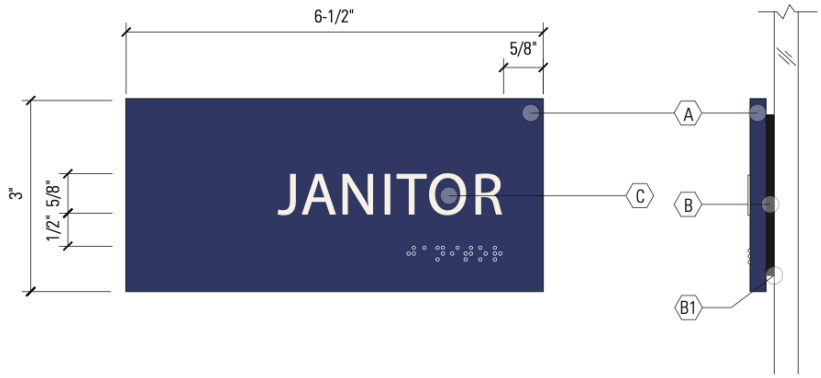
2.2 SIGN TYPES

A. Room identification Signs: Signage media without frame.
   1. Edges: Square.
   2. Corners: Square.
   3. Braille: required
   4. Finish: ¼" acrylic with subsurface paint
   5. Color: custom color to match Architect's selected paint
   6. Wall Mounting of One-Sided Signs: Tape adhesive.

B. Color and Font: Unless otherwise indicated:
   1. Character Font: Helvetica, Arial, or other sans serif font.
   2. Character Case: Upper and lower case (title case).
   3. Background Color: To be selected by Architect from manufacturers full range.
   4. Character Color: To be selected by Architect from manufacturers full range.

C. Schedule:
   1. Study Room
   2. Meeting Room
   3. Staff Only (2)
   4. Occupancy (3)

D. Design Intent
   1. Visual below provided for design intent/material only



Specifications
Construction: Custom ADA-Type Plaque with Raised Copy & Corresponding Raster Braille
Materials:
A) Face Panel: 1/4" Painted Acrylic
B) Back Panel: 1/8" Black Acrylic
Over-All Size: 4"(h) x 6-1/2"(w)
Background Color : BM-2174-20 Starry Night Blue
C) Graphics Color: BMOC-17 White Dove
C) Typestyle: 5/8"(h) Myriad Pro Regular
Mounting:
B1) Standard Mounting: 3M #4910 VHB Tape
Quantity: 4

Sign Schedule:
JANITOR
STORAGE
ELECTRICAL/I.T.
MECHANICAL

2.3 ACCESSORIES

A. Tape Adhesive: Double sided tape, permanent adhesive.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that substrate surfaces are ready to receive work.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions and locate signs where indicated in drawings.

B. Install neatly, with horizontal edges level.

C. Protect from damage until Substantial Completion; repair or replace damage items.

END OF SECTION

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Responsibilities of design build contractor.

B. Sink and sink faucet.

1.02 RELATED REQUIREMENTS

A. 123600 - Countertops

1.03 SUBMITTALS

A. Plumbing, piping, routing and calculations shall be by design build contractor based on the basis of design drawings.

B. Drawings and calculations required for permit shall be by design build contractor. It is the responsibility of the design build contractor to acquire all necessary permits.

C. Product Data: Submit product literature for items specified in Part 2 including fixture/item dimensions and rough-in dimensions.

D. Manufacturer's Installation Instructions: Indicate special preparation of substrate, installation and attachment methods, and conditions requiring special attention.

E. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

F. Maintenance Data: For users operation and maintenance of system including:
   1. Methods for maintaining system's materials and finishes.
   2. Precautions about cleaning materials and methods that could be detrimental to components, finishes, and performance.

1.04 QUALITY ASSURANCE

A. Select combinations of fixtures and trim, faucets, fittings and other components that are compatible.

1.05 DELIVERY, STORAGE, AND HANDLING

A. As required by the manufacturer for a warrantable installation of the installed products.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Sink: Specification is based on Parkway (Model HDSB252293PW) by Elkay.
   1. Substitutions for products by manufacturers other than those listed above: See Section 016000 - Product Requirements.

B. Sink Faucet: Specification is based WD4 Series (Model WD4-DB6AE1-317ABCP) by Chicago Faucets.
   1. Substitutions for products by manufacturers other than those listed above: See Section 016000 - Product Requirements.

2.02 DESCRIPTION

A. Sink:
   1. Subject to compliance with requirements, provide the product indicated in 2.01 above.
   2. Description: 3-hole, Single bowl, drop-in, stainless steel sink.
      a. Overall dimensions: 25” x 22” X 9”
      b. Metal thickness: 20 gauge.
      c. Bowl dimensions: 21” x 15 ¾” x 9 1/8”
      d. Drain: Center
      e. Sink Faucet: See below.

B. Sink Faucet:
   1. Subject to compliance with requirements, provide the product indicated in 2.01 above.
   2. Description: Deck mounted manual sink faucet. ADA compliant. Coordinate faucet inlets with supplies and fixture holes; coordinate outlet with spout and fixture receptor.
      a. Body Material: Cast Brass
      b. Finish: Polished Chrome
      c. Mounting: Deck Mounted
      d. Operation: Manual

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify existing conditions meet the manufacturer's requirements before starting work.

3.02 INSTALLATION

A. Install all materials in accordance with manufacturer's instructions based on conditions present.

B. Install fixtures level and plumb according to roughing-in drawings.

C. Seal joints between fixtures and countertops using sanitary-type, one-part, mildew-resistant silicone sealant. Verify sealant color with architect.

3.03 FIELD QUALITY CONTROL

A. Verify that installed plumbing fixtures are categories and types specified for locations where installed.

B. Check that plumbing fixtures are complete with trim, faucets, fittings, and other specified components.

C. Inspect installed plumbing fixtures for damage. Replace damaged fixtures and components.

D. Test installed fixtures after water systems are pressurized for proper operation. Replace malfunctioning fixtures and components, then retest. Repeat procedure until units operate properly.

3.04 PROTECTION

A. Provide protective covering for installed fixtures and fittings.

B. Do not allow use of plumbing fixtures for temporary facilities unless approved in writing by Owner.

END OF SECTION

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Responsibilities of design build contractor.

B. Relocate one existing register from wall to be demolished into new study room. Refer to drawings.

1.02 RELATED REQUIREMENTS

A.

1.03 SUBMITTALS

A. Ductwork routing and calculations shall be by design build contractor based on the basis of design drawings.

B. Drawings and calculations required for permit to by design build contractor. It is the responsibility of the design build contractor to acquire all necessary permits.

C. Shop Drawings:

1.04 DELIVERY, STORAGE, AND HANDLING

A. As required by the manufacturer for a warrantable installation of the installed products.

PART 2 - EXECUTION

2.01 EXAMINATION

A. Verify existing conditions meet the manufacturer's requirements before starting work.

2.02 INSTALLATION

A. Verify dimensions at the site, making field measurements and drawings necessary for fabrication. Check drawings showing work of other trades and consult with Architect in the event of any interference.

2.03 PROTECTION

A. Provide temporary capping of ductwork openings to prevent entry of dirt, dust and foreign material.

B. Protect diffusers, registers and grilles with plastic wrap or some other approved form of protection to maintain dirt and dust free and to prevent entry of dirt, dust and foreign material into the ductwork.

C. During construction, provide temporary closures of metal or taped polyethylene on open ductwork to prevent construction dust from entering ductwork system.

END OF SECTION

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Responsibilities of design build contractor.

B. Floor Boxes

C. Floor service outlets.

D. Associated device plates.

1.02 SUBMITTALS

A. Wiring, routing design and calculations, including integration with existing electrical panels, shall be by design build contractor based on the basis of design drawings.

B. Drawings and calculations required for permit shall be by design build contractor. It is the responsibility of the design build contractor to acquire all necessary permits.

C. Product Data: Submit product literature for items specified in Part 2 including fixture/item dimensions and rough-in dimensions.

D. Manufacturer's Installation Instructions: Indicate special preparation of substrate, installation and attachment methods, and conditions requiring special attention.

E. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

F. Maintenance Data: For users operation and maintenance of system including:
   1. Methods for maintaining system's materials and finishes.
   2. Precautions about cleaning materials and methods that could be detrimental to components, finishes, and performance.

1.03 DELIVERY, STORAGE, AND HANDLING

A. As required by the manufacturer for a warrantable installation of the installed products.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Metal Floor Boxes: Specification is based on AFBS1R4BASE by Hubbell System One.
   1. Substitutions for products by manufacturers other than those listed above: See Section 016000 - Product Requirements.

2.02 DESCRIPTION

A. Metal Floor Boxes:
1. Subject to compliance with requirements, provide the product indicated in 2.01 above.
a. Material: Sheet metal, 11 gauge.
b. Type: 4" Recessed.
c. Cover: Plated brushed brass finish with 1/8" thick aluminum flange rated for wood installations.
d. Shape: Circular.
e. Device mounting plate: Duplex device opening for power only.
f. Listing and Labeling: Metal floor boxes shall be listed and labeled UL 514A.

B. Wall Plates:
1. Single and combination types shall match corresponding wiring devices
a. Plate-Securing Screws: Metal with head color to match plate finish.
b. Material for Finished Spaces:
1) Shall be same manufacturer as device.

C. Floor Service Fittings:
a. Coordinate fittings with floor boxes as described above.
b. Type: Modular, flush-type, dual-service units suitable for wiring method used.
c. Compartments: Power only.
d. Service Plate: Rectangular die-cast aluminum with satin finish.

D. Finishes:
1. Device Color:
a. Wiring Devices Connected to Normal Power System: White
b. Wall Plate Color: Match device color.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify existing conditions meet the manufacturer's requirements before starting work.

3.02 REQUIREMENTS FOR ELECTRICAL RENOVATION AND DEMOLITION

A. Protect adjacent building services and materials indicated to remain. Install and maintain barriers to keep dirt, dust and noise from being transmitted to adjacent areas. Remove protection and barriers after demolition is completed. If infiltration of dust or dirt results due to improper barriers, Contractor shall be responsible for all maintenance and cleaning.

B. Where electrical work to remain is damaged or disturbed in the course of the work, the Contractor shall remove damaged portions and provide new products of equal capacity, quality, and functionality at his own expense.

C. Unless otherwise noted, demolish and remove existing electrical materials and equipment only to the extent required by new construction and as indicated. Removal of equipment shall not interfere with existing operations.

D. Notify Architect of discrepancies between existing conditions and the Drawings before proceeding with demolition or renovation.

E. Contractor shall ensure that light switches within the Work area remain operational. Where temporary 120 volt light strings are installed, a switch shall be provided for the light strings near the Project entry door. Lights shall be switched off every day at the completion of the shift.

F. Turn off circuit breakers or switches serving abandoned circuits at the commencement of work and tag breaker or switch and label in panel schedule as “Spare”.

G. Remove conduit and wire back to panelboards or to nearest junction box that is not being removed and needs to remain in service. Wire shall be removed back to point of origin.

H. Conduit and Junction Boxes:
   1. Conduit and boxes in existing walls to be demolished shall be removed.
   2. Conduit and boxes in existing walls to remain (if not reused) shall be removed.
   3. Conduit in existing or new ceilings that is not intended for reuse shall be removed back to the panel from where it originates.

I. Receptacles:
   1. Remove devices that are not installed at reusable locations. Boxes shall be blanked.

3.03 INSTALLATION

A. Install all materials in accordance with manufacturer's instructions based on conditions present.

B. Set metal floor boxes level and flush with finished floor surface.

C. Install wiring devices after all wall preparation, including painting, is complete.

D. Replace devices that have been in temporary use during construction and that were installed before building finishing operations were complete.

E. Keep each wiring device in its package or otherwise protected until it is time to connect conductors.

F. Do not remove surface protection, such as plastic film and smudge covers, until the last possible moment.

G. Device Plates: Do not use oversized or extra-deep plates. Repair wall finishes and remount outlet boxes when standard device plates do not fit flush or do not cover rough wall opening.

3.04 FIELD QUALITY CONTROL

A. Verify that installed electrical devices are categories and types specified for locations where installed.

B. Inspect installed electrical devices for damage. Replace damaged devices and components.

C. Test each electrical device. Tests shall be diagnostic, indicating damaged conductors, high resistance at the circuit breaker, poor connections, inadequate fault current path, defective devices, or similar problems. Correct circuit conditions, remove malfunctioning units and replace with new ones, and retest as specified above.

D. Wiring device will be considered defective if it does not pass tests and inspections.

3.05 PROTECTION

A. Protect coatings and finishes from damage and deterioration.

B. Protect installed devices and their boxes. Do not place wall finish materials over device boxes and do not cut holes for boxes with routers that are guided by riding against outside of boxes

C. Keep outlet boxes free of plaster, drywall joint compound, mortar, cement, concrete, dust, paint, and other material that may contaminate the raceway system, conductors, and cables.

END OF SECTION

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Interior Lighting

1.02 SUBMITTALS

A. Wiring and routing design and calculations shall be by design build contractor based on the basis of design drawings.

B. Drawings and calculations required for permit shall be by design build contractor. It is the responsibility of the design build contractor to acquire all necessary permits.

C. Product Data: Submit product literature for items specified in Part 2 including fixture/item dimensions and rough-in dimensions.

D. Shop Drawings: Detailed drawings of linear luminaires including dimensions, configuration of fixture segments in continuous runs (for fixtures where continuous runs are made up of fixture segments), support spacing, suspension type, power feed type and locations, lamp combinations, ballast/driver locations, luminaire joint locations and end plates.

E. Manufacturer's Installation Instructions: Indicate special preparation of substrate, installation and attachment methods, and conditions requiring special attention.

F. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

G. Maintenance Data: For users operation and maintenance of system including:
   1. Methods for maintaining system's materials and finishes.
   2. Precautions about cleaning materials and methods that could be detrimental to components, finishes, and performance.

1.03 DELIVERY, STORAGE, AND HANDLING

A. As required by the manufacturer for a warrantable installation of the installed products.

B. Deliver luminaires individually wrapped in factory fabricated fiberboard type containers.

C. Handle luminaires carefully to prevent breakage, denting and scouring of the luminaire finish.

D. Store product in a clean, dry space, protected from weather.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Track Lighting: Juno.
   1. Substitutions for products by manufacturers other than those listed above: See Section 016000 - Product Requirements.

B. Undercabinet Lighting: Lithonia.
   1. Substitutions for products by manufacturers other than those listed above: See Section 016000 - Product Requirements

2.02 DESCRIPTION

A. Track Lighting:
   a. Refer to fixture schedule and cutsheets.

B. Undercabinet Lighting:
   a. Refer to fixture schedule and cutsheets.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify existing conditions meet the manufacturer's requirements before starting work.

3.02 INSTALLATION

A. Install all materials in accordance with manufacturer's instructions based on conditions present.

B. Provide all frames, supplementary support structures, hangers, spacers, stems, aligner canopies, auxiliary junction boxes and other hardware as required for a complete and proper installation. Recessed luminaires shall have frames that are compatible with the ceiling systems.

C. Luminaires:
   1. Set level, plumb, and square with ceilings and walls, and secure according to manufacturer’s written instructions and approved submittal materials, unless otherwise indicated.

D. Verify weight and mounting method of all luminaires prior to ordering and provide suitable support. Coordinate with General Contractor for luminaires that require additional blocking or support. Luminaire mounting assemblies shall comply with all local seismic codes and regulations.

E. Refer to architectural reflected ceiling plans for coordination of luminaire locations with mechanical, fire protection, technology and fire safety equipment. Where conflicts occur, coordinate with Architect prior to installing any of the Systems.

3.03 FIELD QUALITY CONTROL

A. Verify that installed luminaires are categories and types specified for locations where installed.

B. Test for Emergency Lighting: Interrupt power supply to demonstrate proper operation. Verify transfer from normal power to battery/generator and retransfer to normal. Walk test and verify foot-candle levels meet Code with meter.

C. Inspect each installed luminaire for damage. Luminaires, reflectors, and accessories which are damaged, blemished, or impregnated with fingerprints shall be replaced at this Contractor's expense. All finishes shall be unmarred upon Project completion.

D. Malfunctioning Luminaires and Components: Replace or repair, then retest. Repeat procedure until units operate properly.

E. Make final adjustment of aimable luminaires and adjustable light settings under the direction of the Architect or Owner during a scheduled period of time prior to the completion of the Project.

3.04 PROTECTION

A. Protect coatings and finishes from damage and deterioration.

B. Remove protective plastic covers from luminaires and luminaire diffusers only after construction work, painting and clean-up are completed. Remove, clean, and reinstall all dirty reflectors and diffusers.

C. Clean luminaires internally and externally after installation. Use methods and materials recommended by manufacturer for cleaning reflectors and other surfaces.

END OF SECTION

LIGHTING FIXTURE SCHEDULE

Metalines Community Library	
Metaline Falls, WA	
BuildingWork	**Bid Set**
	9/30/22

Type Rev.	Description	Mfr.	Catalog	Source	Fixture Watts	Dim.	Location

Lighting fixtures will take between 6-8 weeks to arrive on site after the manufacturer receives the purchase order documentation. 6-8 weeks are standard lead times for most off-the-shelf lighting fixtures.

Designer does not specify voltage and emergency lighting requirements, Electrical Contractor to define, specify and document if required.

Dimming protocol is 0-10V, unless otherwise noted (U.O.N.).
All standard finishes, U.O.N. All 80CRI minimum.
Refer to Project Manual for specification sections defining Interior Lighting System Components.
Refer to issued lighting fixture cuts for manufacturer's catalog pages. Lighting Manufacturer updates their catalog pages often. Contractor to verify that the most updated fixture cut is used in the submittal process. Please submit shop drawings as requested within fixture descriptions for approval as part of submittal process.
For all installation related information refer to manufacturer's published instructions.
Some fixtures will require aiming and high-end trimming after install at the direction of the architect. The aiming and dimming settings of lighting fixtures shall occur after dark when daylight prevents accurate evaluation of lighting system performance. The Contractor shall provide all necessary personnel and equipment for aiming and adjusting of light fixtures, and programming of lighting control systems.

All LED luminaires are integrated LED Fixtures with a dedicated LED light source, U.O.N.
"L"=LED fixture

It is assumed all conduit can be routed behind finishes. If conduit has to be exposed, review locations and proposed routing with architect prior to installation.

LIGHTING FIXTURE SCHEDULE

Metalines Community Library	
Metaline Falls, WA	
BuildingWork	**Bid Set**
	9/30/22
INTERIOR	

Type Rev.	Description	Mfr.	Catalog	Source	Fixture Watts	Dim.	Location
L1	Track mounted aimable fixture with wide distribution LED. housing constructed of die cast aluminum, white finish. Wide Flood Beam distribution reflector. Provide white accessory holder with uniformity lens (solite). Nominal Dimensions: 3.5" diameter x 6-9/16" height head, 8.5" overall height. 360 degree horizontal aiming, 95 degree vertical aiming. Fixtures to be aimed by contractor at direction of lighting designer during aiming session.	Juno	R612L-Universal-30K-90CRI-PDIMWFL-WHAHR610WHT SOLITE 275	3000K White 3162lm 37W 90CRI	37	Phase Dimming	Reading Room Perimeter
L1 TRACK	Surface mounted single circuit track. Constructed of extruded aluminum with thermoplastic insulator, white finish. Injection molded polycarbonate dead-end with set screw. Nominal Dimensions: 1-3/8" widex 1/2" tall x 48" with 90 degree corner as shown in drawings. Provide all parts and pieces for a full function system including electrical feeds, trac joiners and ends. Provide Current Limiting Feeds per energy code requirements. All track components to be white Finish. Provide Shop Drawings.	Juno	Trac-Lites One Circuit Trac System R Series 4ft-WH-R24-WH/4ft-WH Parts and Pieces as required for install Current Limiting Feed per run			Phase Dimming	

L2	Undercabinet linear fixture for use with white LEDs' fixture to measure 1/2" tall x 1-1/4" wide by 24" (X x24" interlinked- length as shown in drawings)s. Fixture to be direct-wired. Brushed nickel finish. EC to order all accessories as required for proper install. See A800-14 for casework detail. Provide one power supply per fixture grouping.	Lithonia	Rayzer RAZ-24inx length as shown in drawings (fixtures to be linked end-end)-30K-90CRIprovide step dimmer provide all parts and pieces as reqd for proper install including one power supply per fixture grouping.	958lm/2ft, 18.3W/2ft	37	0-10V to %	Kitchen and Meeting Room

Submitted by The Lighting Group LLCRebekah Swan			
TLG	**Job Name:** Metaline Falls Branch Library Architect: Pending Architect Engineer:	**Catalog Number:** R612L 30K 90CRI PDIM WFL WH AHR610 WHT 275 /HCLBL 275 Notes:	**Type:** **L1** LGNW21-84120

R612L

JUNO

TRAC-LITES™
37W LED CYLINDER
R612L SERIES

Project:

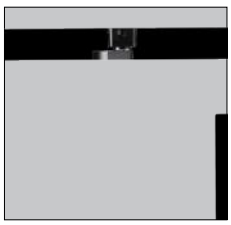
Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

The R612L Series 37W LED Cylinder is an efficient and affordable trac fixture, with a simple and timeless cylindrical aesthetic. It can deliver up to 3339 lumens, at efficacies up to 90LPW and having a rated life of 50,000 hours. Its unique, nested yoke arm enables simple, straight-down aiming if desired. Precision bayonet-mount reflectors enable uniform spot, narrow flood, flood or wide flood distributions to be achieved. These fixtures can also be fitted with a factory-assembled or field-installed accessory holder that accommodates one accessory if desired. The 37W LED Cylinder can be specified with a variety of factory-assembled track mounting adapters, making it compatible with all line voltage Juno Trac systems and system components, or with many competitive 120V track systems.



PRODUCT SPECIFICATIONS

Construction Die cast aluminum housing provides outstanding thermal management of LED, yielding 70% average lumen maintenance at 50,000 hours of operation • Simple, timeless design complements any decor • Available in white, black and silver finishes.

LED High performance LED array provides outstanding reliability, performance and color quality/consistency • 2700K, 3000K, 3500K or 4000K white phosphor high performance LEDs • Chromaticity range within a 3-step MacAdam Ellipse • Exceptional 80 CRI minimum on standard product • Optional high CRI versions offer 90 CRI minimum.

Driver Integrated into fixture housing behind LED light engine to minimize overall fixture footprint • Insulating air gap between driver and LED light engine, plus thermal potting compound, optimizes thermal operation • Provides quiet operation with or without dimming • 120V fixtures are dimmable using high quality, factory-approved dimmers - see R612L-DIM • Solid state electronic, Class 2 compliant • Integral overcurrent and short circuit protection • Designed for greater than 50,000 hour operating life • FCC Certified to Part 15 Class B EMI standards (Class A at 277V).

Relector Precision designed reflectors provide uniform spot, narrow flood, flood or wide flood beam distributions • Faceted/dimpled reflector ensures a properly color-mixed beam • Accessory reflectors available to convert from one beam distribution to another in the field.

Accessory Holder Optional accessory holder replaces front bezel without tools • May be specified as a factory-installed option or ordered separately as a field-installed accessory • Precision bayonet mounting • Accommodates one accessory if desired.

Juno Universal Trac Adapter Universally compatible with both Trac-Master 1-circuit or 2-circuit trac, Trac-Lites trac, monopoints and special mountings • Also UL Recognized for use on ConTech® LT Series track • Copper alloy contacts provide precise spring action – no a rcing and will not take a set • True, positive electrical ground • On/off switch included • Patented embossed polarity arrows on bottom of ada pter • Spring-loaded positive latch with embossed polarity arrows secures trac light to trac • Two-position power contact provided for two-ci rcuit application.

Alternate TEK/HTEK Trac Adapters Compatible with either Juno TEK or HTEK trac systems • System specific and assembled to trac fixture • Integrally polarized construction to prevent reverse installation – only allows insertion in proper orientation • Rotary circuit selector enables simple switching between circuits • Integral on/off switch enables individual fixtures to be switched for servicing.

Alternate GTYPE Trac Adapter Compatible with track systems based on GES type track, including Lithonia LT Commercial Track (not LTS type) • System specific and assembled to trac fixture • Available in black, silver, and white finish only • Consult factory for additional information.

Alternate HTYPE Trac Adapter Compatible with track systems which use a H-type track adapter, including Lithonia LTS Decorative Track (not LT type) • System specific and assembled to trac fixture • Two-position power contact provided for two-circuit application • Available in black, silver, and white finish only • Consult factory for additional information.

Alternate LTYPE Trac Adapter Compatible with track systems which use a L-type track adapter • System specific and assembled to trac fixture • Two-position power contact provided for two-circuit application • Available in black, silver, and white finish only • Consult factory for additional information.

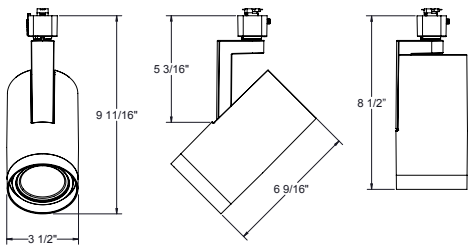
Aiming 360° horizontal coverage • 95° vertical aiming capability.

Labels UL and C-UL Listed • ENERGY STAR® certified • 80CRI versions are DesignLights Consortium® Qualified • 90 CRI versions certified as CEC Title 24 Compliant • Union made • Assembled in U.S.A.

Warranty 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Specifications subject to change without notice.

DIMENSIONS



ConTech is a registered trademark of ConTech Lighting.

Submitted by The Lighting Group LLCRebekah Swan			
TLG	**Job Name:** Metaline Falls Branch Library Architect: BuildingWork	**Catalog Number:** RAZ 24IN 30K 90CRI / RAZ CC24 / RAZDIM / RAZTRANS24 MVOLT Notes:	**Type:** **L2** LGNW21-84120

LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE
Provides task or accent lighting in commercial, retail, hospitality and residential applications. Ideal for use under and over cabinets, display cases, task lighting, office lighting, coves and utility/work areas.

CONSTRUCTION
Durable aluminum construction in a low-profile design. Frosted acrylic diffuser and continuous row of LEDs provides even illumination.

ELECTRICAL
Link up to 7.5' of modular system to one transformer (required, sold separately). Fixtures can be linked end-to-end with the included end row connector (1-3/8" spacing) or 18" linking cord). 3", 24" and 121" connector cords may also be purchased separately for use between fixtures. Can be plugged in or direct-wired (splice box and 24" connector cord required for direct-wiring).

OPTICS
LEDs have a 50,000 hour L70 rated life. Provides a warm color temperature at 3000K, with 95 CRI.

Dimmable when used with the optional step dimmer (sold separately).

INSTALLATION
All mounting hardware included. Mounting clips allow for quick & easy installation. Can be flush mounted or angled at 30° using the provided clips. All configurations tested to IES LM79 standards.

LISTING
UL listed to US and Canadian safety standards.

WARRANTY
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Indoor General Purpose

Rayzer™
Modular LED Lighting System

RAYZER™
LED MODULAR LIGHTING SYSTEM

ORDERING INFORMATION For shortest lead times, configure products using **bolded options**.

Example: RAZ 12IN 30K 90CRI

Series[1,2]	Length	Color temperature	CRI	Finish
RAZ Rayzer low profile LED undercabinet	**9IN** 9" nominal **12IN** 1' nominal **18IN** 1.5' nominal **24IN** 2' nominal	**30K** 3000K	**90CRI** >90	**(blank)** Brushed nickel

Accessories /Replacement Parts[1,2]			
RAZTRANS24 120	24v transformer - 120v power source, includes 5' cord and plug and 24" connector cord (for linking to first fixture)	RAZ ERC	End row connector (fixture to fixture, 1 3/8" fixture spacing, 1 connector per pack)
RAZTRANS24 MVOLT	24v transformer - Multi-Volt power source, includes integrated direct-wire junction box and 24" connector cord (for linking to first fixture)	RAZ PHD	Power hub distributor, allows for additional fixture run
RAZDIM	Step dimmer with remote touch pad, 10' cord length on remote touchpad	RAZ INLS26	In-line power switch (transformer to linking cord, 26" cord length)
RAZ CC121	121" Linking cord (fixture to fixture)	UCD JB	Splice box - white (required for 120V direct wire)
RAZ CC24	24" linking cord (fixture to fixture)	UCD JB BL	Splice box - black (required for 120V direct wire)
RAZ CC3	3" linking cord (fixture to fixture)	UC ERC24	24" connector cord - white (required for 120V direct wire for splice box to transformer connection)
RAZLVCC	Low voltage linking cord (cord to cord), to connect multiple linking cords		

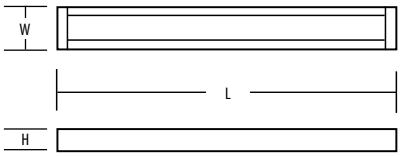
Notes
1 Link up to 7.5' of modular system to one transformer.
2 Transformer is required for operation.

Submitted by The Lighting Group LLCRebekah Swan			
TLG	**Job Name:** Metaline Falls Branch Library Architect: BuildingWork	**Catalog Number:** RAZ 24IN 30K 90CRI / RAZ CC24 / RAZDIM / RAZTRANS24 MVOLT Notes:	**Type:** **L17** LGNW21-84120

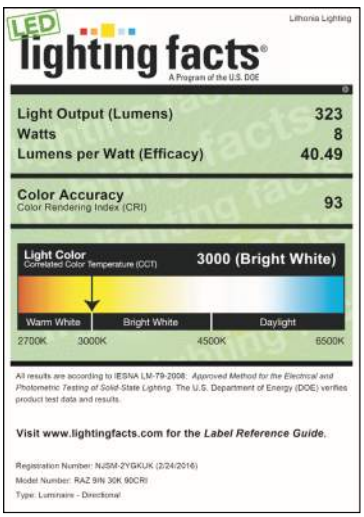
Rayzer™ LED Modular Lighting System

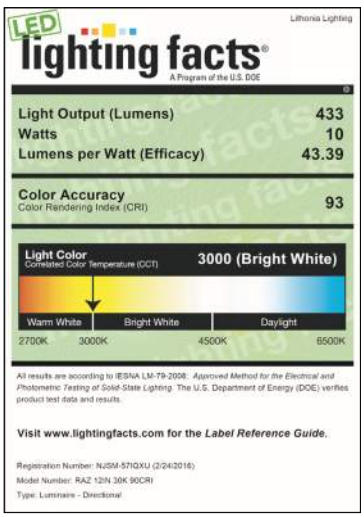
SPECIFICATIONS	9"	12"	18"	24"
Lumens (3000K):	324	434	630	958
Watts (3000K):	8	10	13.1	18.3
Lumens per watt:	41	43	48	52
Length:	9-1/4 (23.5)	12-1/4 (31.1)	18-1/4 (46.4)	24-1/4 (61.6)
Width:	1-1/4 (3.18)	1-1/4 (3.18)	1-1/4 (3.18)	1-1/4 (3.18)
Height:	1/2" (1.27)	1/2" (1.27)	1/2" (1.27)	1/2" (1.27)

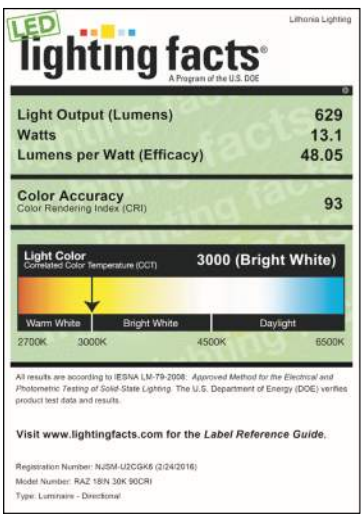
All dimensions are inches (millimeters) unless otherwise indicated. Weights are pounds (kilograms).

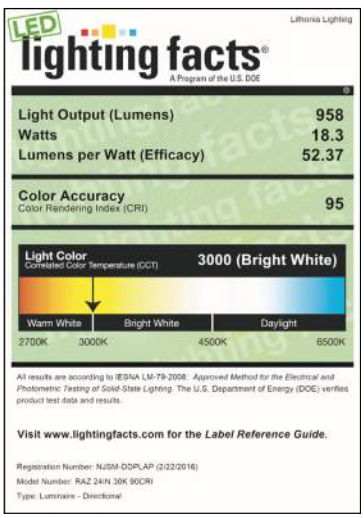


Full photometric data report available within 2 weeks from request. Consult factory.









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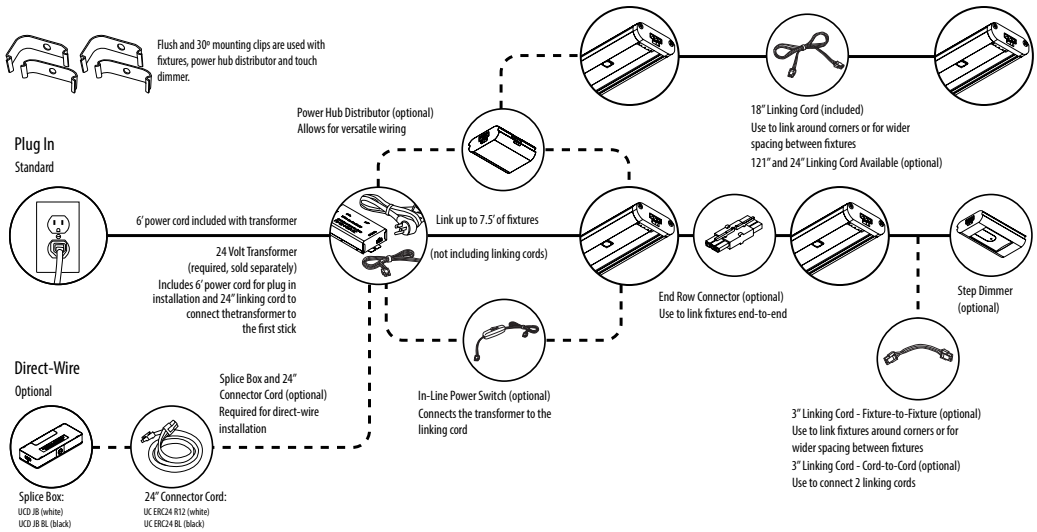
Submitted by The Lighting Group LLCRebekah Swan			
TLG	**Job Name:** Metaline Falls Branch Library Architect: BuildingWork	**Catalog Number:** RAZ 24IN 30K 90CRI / RAZ CC24 / RAZDIM / RAZTRANS24 MVOLT Notes:	**Type:** **L17** LGNW21-84120

Rayzer™ LED Modular Lighting System

INSTALLATION DIAGRAM

Note: Fixture includes 1 3/8" end row connector, 18" linking cord, mounting clips for flush or 30º mounting, and screws.



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