

SPECIAL PROVISIONS

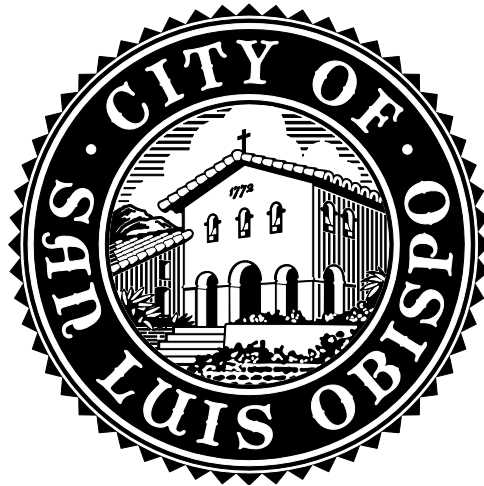
FOR

CITY OF SAN LUIS OBISPO

Finance and IT Office Tenant Improvements

Specification No. 2000114-02

February 2025



**PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION**

**919 Palm Street
San Luis Obispo, CA 93401
(805) 781-7200**

Finance and IT Office Tenant Improvements

Specification No. 2000114-02

Approval Date: February 4, 2025



TABLE OF CONTENTS

NOTICE TO BIDDERS	II
BID SUBMISSION.....	II
BID DOCUMENTS	III
PROJECT INFORMATION	III
QUALIFICATIONS	IV
AWARD	V
ACCOMMODATION.....	VI
BID FORMS	A
BID ITEM LIST FOR FINANCE AND IT OFFICE TENANT IMPROVEMENT, SPECIFICATION NO. 2000114-02	A
LIST OF SUBCONTRACTORS	C
PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT.....	D
PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE	D
PUBLIC CONTRACT CODE SECTION 10232 STATEMENT.....	D
LABOR CODE SECTION 1725.5 STATEMENTS	D
NON-COLLUSION DECLARATION.....	F
BIDDER ACKNOWLEDGEMENTS.....	G
QUALIFICATIONS	H
ATTACH BIDDER'S BOND TO ACCOMPANY BID	I
SPECIAL PROVISIONS.....	1
DIVISION I GENERAL PROVISIONS.....	1
1 GENERAL.....	1
3 CONTRACT AWARD AND EXECUTION	1
4 SCOPE OF WORK.....	2
5 CONTROL OF WORK.....	2
6 CONTROL OF MATERIALS.....	2
7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC.....	3
8 PROSECUTION AND PROGRESS	3
9 PAYMENT	4
DIVISION II GENERAL CONSTRUCTION	4
16 TEMPORARY FACILITIES.....	4
DIVISION XI MATERIALS.....	4
91 PAINT	4
DIVISION XII BUILDING CONSTRUCTION	4
99 BUILDING CONSTRUCTION	4
DIVISION XIII APPENDICES.....	5
APPENDIX A - FORM OF AGREEMENT.....	0
APPENDIX B – TECHNICAL SPECIFICATIONS	3

APPENDIX C – CITY HALL STAGING EXHIBIT	4
APPENDIX D – FURNITURE SCHEDULE	5
APPENDIX E – ASBESTOS TESTING REPORT	6
APPENDIX F – MATERIAL BOARD.....	7

NOTICE TO BIDDERS

NOTICE TO BIDDERS BID SUBMISSION

Sealed bids will be received by the City of San Luis Obispo at the Public Works Administration Office located at 919 Palm Street, San Luis Obispo, California 93401, until

11:00 a.m. on March 13, 2025

at which time they will be publicly opened and read aloud. Public bid opening may also be viewed via Microsoft Teams video conference and conference call. Use the following link:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmU1ZGE5ZmYtOGZmNS00MGMyLWJkMjgtYTk2MjMwZWl1YzgY%40thread.v2/0?context=%7b%22id%22%3a%22a78b182d-94e4-4507-a9a9-330dcb148164%22%2c%22oid%22%3a%2255684c81-fa0a-443f-b6a5-1f55eacc1141%22%7d

or join by phone with this number: 1 (209) 645-4165 with Conference ID: 812 492 571 #

Submit bid in a sealed envelope plainly marked:

Finance and IT Office Tenant Improvements, Specification No. 2000114-02

Any bid received after the time and date specified will not be considered and will be returned to the bidder unopened. Bids received by Fax or Email will not be considered.

By submission of bid you agree to comply with all instruction and requirements in this notice and the contract documents.

All bids must be submitted on the Bid Item List form(s) provided and submitted with all other Bid Forms included in these Special Provisions.

Each bid must be accompanied by either a:

1. certified check
2. cashier's check
3. bidder's bond

made payable to the City of San Luis Obispo for an amount equal to ten percent of the bid amount as a guaranty. Guaranty will be forfeited to the City San Luis Obispo if the bidder, to whom the contract is awarded, fails to enter into the contract.

The City of San Luis Obispo reserves the right to accept or reject any or all bids or waive any informality in a bid.

All bids are to be compared based on the City Engineer's estimate of the quantities of work to be done, as shown on the Bid Item List.

NOTICE TO BIDDERS

Bids will only be accepted from bidders that are licensed in compliance with the provisions of Chapter 9, Division III of Business and Professions Code.

The award of the contract, if awarded, will be to the lowest responsive bid submitted by a responsible contractor whose bid complies with the requirements prescribed. If the contract is awarded, the contract will be awarded within 60 calendar days after the opening of the bids.

Failure to raise defects in the notice to bidders or bid forms prior to bid opening constitute a waiver of those defects.

BID DOCUMENTS

A copy of the plans and special provisions may be downloaded, free of charge, from the City's website at:

www.slocity.org/government/department-directory/public-works/public-works-bids-proposals

No printed copies are available for purchase at the City office.

Standard Specifications and Engineering Standards referenced in the Special Provisions may be downloaded, free of charge, from the City's website at:

www.slocity.org/government/department-directory/public-works/documents-online

You are responsible to obtain all issued addenda prior to bid opening. Addenda will be available to download at the City's website listed above or at the office of the City Engineer.

Contact the project manager, Rebecca Cox at (805) 781-7003 or the Public Works Department at (805) 781-7200 prior to bid opening to verify the number of addenda issued.

PROJECT INFORMATION

In general, the project consists of remodeling and tenant improvement of the Finance and IT interior office space located in the basement level of City Hall. In addition to improvements of the restrooms and breakroom.

The project estimated construction cost is \$1,254,000

Contract time is established as 90 working days.

The fixed liquidated damages amount is established at \$500 per day for failure to complete the work within the contract time.

NOTICE TO BIDDERS

In compliance with section 1773 of the Labor Code, the State of California Department of Industrial Relations has established prevailing hourly wage rates for each type of workman. Current wage rates may be obtained from the Division of Labor at:

<https://www.dir.ca.gov/oprl/DPreWageDetermination.htm>

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

There will be a MANDATORY walkthrough on Thursday, February 13 at 10:00 a.m. or 2:00 p.m. Contractors wishing to submit a bid proposal are required to attend and sign in at the meeting. Bidders must meet City Staff at 990 Palm Street (City Hall, lower level) in San Luis Obispo, California.

QUALIFICATIONS

You must possess a valid Class **B** Contractor's License at the time of the bid opening.

You and any subcontractors required to pay prevailing wage must be registered with the Department of Industrial Relations pursuant to Section 1725.5 of the Labor Code.

You must have experience constructing projects similar to the work specified for this project. Provide three similar reference projects completed as either the prime or subcontractor. All referenced projects must have been completed within the last five years from this project's bid opening date.

One of the three reference projects must have been completed under contract with a city, county, state or federal government agency as the prime contractor.

Two of the referenced projects must be for tenant improvements of an office building.

One of the referenced projects must be for office rehabilitation with electrical work of an office building.

Failure to provide reference projects as specified in this section and as required on the qualification form is cause to reject a bid as being non-responsive.

The City reserves the right to reject any bid based on non-responsiveness if a bidder fails to provide a bid that complies with all bidding instructions.

The City reserves the right to reject a responsive bid based on the non-responsibility of the bidder if the Director of Public Works or Designee finds, after providing notice and a hearing to the bidder, that the bidder lacks the

1. knowledge
2. experience,
3. or is otherwise not responsible

NOTICE TO BIDDERS

as defined in Section 3.24 of the San Luis Obispo Municipal Code to complete the project in the best interest of the City.

Rejected bidders may appeal this determination. Appeal must comply with the requirements in this Notice to Bidders.

It is the City of San Luis Obispo's intent to award the contract to the lowest responsive bid submitted by a responsible bidder. If in the bidder's opinion the contract has been or may be improperly awarded, the bidder may protest the contract award.

Protests must be filed no later than five working days after either:

1. bid opening date
2. notification of rejected bid.

Protest must be in writing and received by the project manager located at:

919 Palm Street
San Luis Obispo, CA 93401.

Valid protests must contain the following information:

1. the reasons for the protest
2. any supporting documentation
3. the ruling expected by the City to remedy the protest.

Any protest not containing all required information will be deemed invalid and rejected.

The City will consider additional documentation or other supporting information regarding the protest if submitted in compliance to the specified time limits. Anything submitted after the specified time limit will be rejected and not be considered.

The Director of Public Works or Designee may request additional information to be submitted within three days of the request, unless otherwise specified, and will notify the protester of ruling within ten days of determination.

If the protester is not satisfied with ruling, the protester may appeal the ruling to the City Council in compliance with Chapter 1.20 of the City of San Luis Obispo Municipal Code.

Pursuant to the Public Records Act (Government Code, § 6250, et seq.), the City will make public records available upon request.

AWARD

The lowest bidder will be determined using the TOTAL PROJECT BID.

As a condition to executing a contract with the City, two bonds each equal to one hundred percent of the total contract price are required in compliance with Section 3-1.05 of the Standard Specifications.

You may substitute securities for moneys withheld under the contract in compliance with the provisions of the Public Contract Code, Section 10263.

NOTICE TO BIDDERS

ACCOMMODATION

If any accommodations are needed to participate in the bid process, please contact Allie Genard at (805) 781-7200 or by Telecommunications Device for the Deaf at (805) 781-7107. Requests should be made as early as possible in the bidding process to allow time for accommodation.

BID FORMS

All bid forms must be completed and submitted with your bid. Failure to submit these forms and required bid bond is cause to reject the bid as nonresponsive. Staple all bid forms together.

THE UNDERSIGNED, agrees that they have carefully examined:

1. the location of the proposed work
2. the plans and specifications
3. read the accompanying instructions to bidders

and propose to furnish all:

4. materials
5. labor

to complete all the required work satisfactorily in compliance with

6. plans
7. specifications
8. special provisions

for the prices set forth in the bid item list:

BID ITEM LIST FOR FINANCE AND IT OFFICE TENANT IMPROVEMENT, SPECIFICATION NO. 2000114-02

Item No.	SS ⁽¹⁾	Item Description	Unit of Measure	Estimated Quantity	Item Price (in figures)	Total (in figures)
1	99	Demolition Offices	LS	1	----	
2	99	Office Rehabilitation	LS	1	----	
3	99	Demolition Breakroom	LS	1	----	
4	99	Breakroom Rehabilitation	LS	1	----	
5	99	Demolition Restroom	LS	1	----	
6	99	Restroom Rehabilitation	LS	1	----	
7	91, 99	Painting	LS	1	----	
8	99	Disassembly of Existing Furniture	LS	1	----	
9	99	Assembly of Existing Bases to New Worksurfaces	LS	1	----	
10 (S)	99	Furniture Purchase and Installation	LS	1	----	
11 (S)	99	Electrical and Communication Improvements	LS	1	----	
12	99	Construction Fencing	LS	1	----	
13	99	Fire Protection	LS	1	----	
Bid Total					\$	
Company Name:						

(1) refers to section in the Standard Specifications, with modifications in the Special Provisions, that describe required work.

BID FORMS

(S) Specialty item per Section 5-1.13A SUBCONTRACTING, General of the Standard Specifications

BID FORMS

LIST OF SUBCONTRACTORS

Pursuant to Section 4100 of the Public Contracts Code and section 2-1.33C of the standard specifications, the Bidder is required to furnish the following information for each Subcontractor performing more than 1/2 percent (0.5%) of the total base bid. Do not list alternative subcontractors for the same work. Subcontracting must not total more than fifty percent (50%) of the submitted bid except as allowed in section 5-1.13 of the standard specifications.

For Streets & Highways projects, subcontractors performing less than ten thousand dollars (\$10,000) worth of work need not be mentioned. **Subcontractors required to pay prevailing wage, must be registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 to be listed.**

NOTE: If there are no subcontractors, write "NONE" and submit with bid.

Name Under Which Subcontractor is Licensed	License Number	DIR Public Works Registration Number	Address and Phone Number of Office, Mill or Shop	Specific Description of Subcontract	% of Total Base Bid
_____	_____	_____	_____	_____	_____
_____			_____	_____	
_____			_____	_____	
_____	_____	_____	_____	_____	_____
_____			_____	_____	
_____			_____	_____	
_____	_____	_____	_____	_____	_____
_____			_____	_____	
_____			_____	_____	
_____	_____	_____	_____	_____	_____
_____			_____	_____	
_____			_____	_____	

Attach additional sheets as needed.

PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT

In compliance with Public Contract Code Section 10285.1 (Chapter 376, Stats. 1985), the bidder hereby declares under penalty of perjury under the laws of the State of California that the bidder, or any subcontractor to be engaged by the bidder, **has** _____, **has not** _____ been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code Section 1101, with any public entity, as defined in Public Contract Code Section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

NOTE: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided. The above Statement is part of the Bid. Signing this Bid on the signature portion constitute signature of this Statement. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In compliance with Public Contract Code Section 10162, the Bidder must complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

_____ Yes _____ No

If the answer is yes, attach a letter explaining the circumstances

PUBLIC CONTRACT CODE SECTION 10232 STATEMENT

In compliance with Public Contract Code Section 10232, you hereby state under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against you within the immediately preceding two-year period because of your failure to comply with an order of a federal court which orders you to comply with an order of the National Labor Relations Board.

LABOR CODE SECTION 1725.5 STATEMENTS

The bidder has delinquent liability to an employee or the state for any assessment of back wages or related damages, interest, fines, or penalties pursuant to any final judgment, order, or determination by a court or any federal, state, or local administrative agency, including a confirmed arbitration award. Any judgment, order, or determination that is under appeal is excluded, provided that the contractor has secured the payment of any amount eventually found due through a bond or other appropriate means.

BID FORMS

_____ Yes

_____ No

The bidder is currently debarred under Section 1777.1 or under any other federal or state law providing for the debarment of contractors from public works.

_____ Yes

_____ No

NOTE: The above Statements and Questionnaire are part of the Bid. Signing this Bid on the signature portion constitute signature of this Statement and Questionnaire. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

BID FORMS

NON-COLLUSION DECLARATION

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

Executed on _____, 20____, in _____

I declare under penalty of perjury under the laws of the State of California that the foregoing
is true and correct.

(SEAL)

(Signature and Title of Declarant)

Subscribed and sworn to before me
this _____ day of _____, 20____

Notary Public

Company Name:_____

BID FORMS

BIDDER ACKNOWLEDGEMENTS

By signing below, the bidder acknowledges and confirms that this bid is based on the information contained in all contract documents, including the notice to bidders, plans, specifications, special provisions, and addendum number(s) _____. **(Note: You are responsible to verify the number of addenda prior to the bid opening.)**

The undersigned further agrees that in case of default in executing the required contract, with necessary bonds, within eight days, (not including Saturdays, Sundays, and legal holidays), after having received a mailed notice that the contract is ready for signature, the proceeds of the check or bond accompanying his bid will become the property of the City of San Luis Obispo.

Licensed in accordance with an act providing for the registration of contractors, License No._____, Expiration Date _____.

The above statement is made under penalty of perjury, and any bid not containing this information "will be considered non-responsive and will be rejected" by the City.

Signature of Bidder _____

(Print Name and Title of Bidder)

**DIR– Public Works
Registration No:**

Business Name (DBA): _____

Owner/Legal Name: _____

Indicate One: ☐ Sole-proprietor ☐ Partnership ☐ Corporation

List Partners/Corporate Officers: _____
Name Title

Name Title

Name Title

Business Address _____

Street Address _____

Mailing Address _____

City, State, Zip Code _____

Phone Number _____

Fax Number _____

Email Address _____

Date _____

BID FORMS

QUALIFICATIONS

Failure to furnish complete reference information **ON THIS FORM**, as specified in this project's Notice to Bidders and indicated below, is cause to reject the bid. Additional information may be attached but is not a substitute for this form.

Reference Number 1

Customer Name & Contact Individual	
Telephone & Email	
Project Name (Site Address):	
Did this project include tenant improvements of an office building? Yes <input type="checkbox"/> No <input type="checkbox"/>	Describe the services provided and how this project is similar to that which is being bid: Date project completed:
Was this contract for a public agency? Yes <input type="checkbox"/> No <input type="checkbox"/>	

Reference Number 2

Customer Name & Contact Individual	
Telephone & Email	
Project Name (Site Address):	
Did this project include tenant improvements of an office building? Yes <input type="checkbox"/> No <input type="checkbox"/>	Describe the services provided and how this project is similar to that which is being bid: Date project completed:
Was this contract for a public agency? Yes <input type="checkbox"/> No <input type="checkbox"/>	

Reference Number 3

Customer Name & Contact Individual	
Telephone & Email	
Project Name (Site Address):	
Did this project include tenant improvements with electrical work of an office building? Yes <input type="checkbox"/> No <input type="checkbox"/>	Describe the services provided and how this project is similar to that which is being bid: Date project completed:
Was this contract for a public agency? Yes <input type="checkbox"/> No <input type="checkbox"/>	

BID FORMS

ATTACH BIDDER'S BOND TO ACCOMPANY BID

Know all men by these presents:

That we _____, AS PRINCIPAL, and

_____, AS SURETY, are held and firmly bound unto the City of San Luis Obispo in the sum of:

_____ Dollars (_____) to be paid to said City or its certain attorney, its successors and assigns; for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly by these presents:

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the certain bid of the above bounden _____

to construct _____
(insert name of street and limits to be improved or project)

dated _____ is accepted by the City of San Luis Obispo, and if the above

bounden _____, his heirs, executors, administrators, successors, and assigns shall duly enter into and execute a contract for such construction and shall execute and deliver the two bonds described within ten (10) days (not including Saturdays, Sundays, or legal holidays) after the above bounden,

_____, has received notice by and from the said City of San Luis Obispo that said contract is ready for execution, then this obligation shall become null and void; otherwise, it shall be and remain in full force and virtue.

IN WITNESS WHEREOF, we hereunto set our hands and seals this ____ day of _____, 20____.

Bidder Principal:

Signature
Title:

Date

Surety:

Bidder's signature is not required to be notarized. Surety's signature must be notarized.
Equivalent form may be substituted
(Rev. 6-30-14)

SPECIAL PROVISIONS

ORGANIZATION

Special provisions are under headings that correspond with the main section heading of the Standard Specifications. Each special provision begins with a revision clause that describes or introduces a revision to the Standard Specifications. Any paragraph added or deleted by a revision clause does not change the paragraph number of the Standard Specifications for any other reference to a paragraph of the Standard Specifications.

DIVISION I GENERAL PROVISIONS

1 GENERAL

Add to Section 1-1.01 GENERAL:

The work must be done in compliance with the City of San Luis Obispo, Department of Public Works:

1. Finance and IT Office Tenant Improvement, Specification No. 200014-02 Special Provisions
2. City of San Luis Obispo Standard Specifications and Engineering Standards – 2020 edition
3. State of California, Department of Transportation Standard Specifications and Standard Plans – 2015 edition

In case of conflict between documents, governing ranking must comply with section 5-1.02 of the City of San Luis Obispo's Standard Specifications. All work must conform to these Special Provisions and appendices, project plans, and the most current Building Codes. In the event of a conflict, the more stringent requirement shall apply.

Failure to comply with the provisions of these sections is a material breach of contract:

1. Sections 5 through 8 of the Standard Specifications
2. Section 12 through 15 of the Standard Specifications
3. Section 77-1 of the Standard Specifications
4. Section 81 of the Standard Specifications
5. authorized working hours
6. OSHA compliance

3 CONTRACT AWARD AND EXECUTION

Add Section 3-1.18B CONTRACT EXECUTION, Building Permit:

The contractor must obtain a no-fee building permit from the Community Development Department. All requirements of the building permit shall be applied to the project. The contractor is responsible for coordinating inspection with the building division for the project. Request for inspection must be scheduled 72 hours in advance of the required inspection.

Prior to project construction, the Contractor must completely fill out the Construction & Demolition Recycling Plan and Disposal Report, found on the City's website:

SPECIAL PROVISIONS

<https://forms.slocity.org/Forms/recyclingplan>, to obtain a Building Permit. Demolition Recycling Plan and Disposal Report must be turned in to Utilities Department located at 879 Morro Street, San Luis Obispo, CA 93401 for review and approval.

Upon completion of the project, the Contractor must submit waste receipts and final permit (see page two of the Construction & Demolition Recycling Plan and Disposal Report), to 879 Morro for sign off.

4 SCOPE OF WORK

Add to Section 4-1.03 WORK DESCRIPTION:

Comply with the provisions of Sections 91 and 99 for general, material, construction, and payment specifics. Refer to these Special Provisions including Appendix B Supplemental Technical Specifications for modifications to the above Sections.

5 CONTROL OF WORK

Add to Section 5-1.01 GENERAL:

Work hours are restricted to 7:00 a.m. to 4:00 p.m. Monday through Friday.

The Contractor is required to supply a weather safe storage area for all furniture to be reused. All equipment and materials shall be stored within the identified area on the staging exhibit reference Appendix C.

City Hall is a highly used public facility. Contractor must ensure that operations do not interfere with public services and work activity outside of the project limits. Contractor shall clean and sweep work site, staging areas, and public walkways at the end of each day.

City staff will vacate the immediate construction area during construction. Office suites in the building outside the project limits of construction will remain in operation.

Construction equipment will be allowed to be kept on-site after hours and over weekends provided it is fully contained within the fenced and secured worksite and is not accessible to the public.

Add to Section 5-1.32 AREAS FOR USE:

Contractor will be allowed to use the lower-level City Hall entryway for staging of equipment and materials and 7 parking spaces within the City Hall parking lot during the project reference Appendix C: City Hall Staging Exhibit.

Access to City Hall must be maintained clear, open, and safe at all times.

6 CONTROL OF MATERIALS

Add Section 6-1.06 CONTRACTOR FURNISHED MATERIALS

SPECIAL PROVISIONS

The Contractor shall make arrangements and provide for adequate portable toilet facilities at the site. The Contractor shall maintain sanitary facilities until completion of work at which time the facilities will be removed from the site and premises disinfected.

The Contractor shall protect all materials and equipment stored onsite from any damage or deterioration until it is ready for installation. The City shall not be held liable for any damage to the material that may occur on site.

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Add to Section 7-1.03B PUBLIC CONVENIENCE, Traffic Control Plan

Provide traffic control plan and traffic control application at or before the preconstruction meeting. Traffic control plan must be drawn to scale. Traffic control application may be obtained on the City's website:

www.slocity.org/government/department-directory/public-works/documents-online/construction-documents

Upon approval of the traffic control plan, the City will issue a no-fee Encroachment Permit. Permittee is responsible to comply with all conditions of the traffic control plan. Complete work using due diligence to restore free flowing of traffic.

Add to Section 7-1.04 PUBLIC SAFETY:

Contractor understands that the work to be done under this contract is located in a highly used public facility. Contractor will make every effort and will be responsible to protect the City Hall users from the construction site including staging areas and access route from the parking lot.

Contractor to submit staging plan for approval. The plan must identify the path to construction work that will minimize site disturbance.

Contractor must provide a rigid 6' (minimum) chain link or other rigid work site fence surrounding the work site (including any staging and storage areas) and provide other such safeguards and facilities to keep City Hall users from entering a construction area. Contractor must control and maintain City Hall access and vehicular traffic in a safe manner around the work site at all times. Contractor must leave work site clean and free from hazards at the end of each day and on weekends. Walkways must be swept daily. All tools, forms, hardware, paint cans, building materials and/or other items that could be a potential hazard to City Hall users must be removed from the work site at the end of each day. Coordinate work-site fence with staging as specified in Section 5-1.32, "Area of Use," of these special provisions.

8 PROSECUTION AND PROGRESS

Replace the 1st paragraph in Section 8-1.02A SCHEDULE, General with:

Provide a Level 1 schedule for this work.

SPECIAL PROVISIONS

Add to Section 8-1.03 PRECONSTRUCTION CONFERENCE:

14. Schedule of Values for all lump sum bid items
15. Contractor shall provide a Construction and Demolition Recycling Waste Plan which must be submitted at or before preconstruction conference.

Add to Section 8-1.05 TIME

The time required for material procurement is not included in the contract time. Work will not commence until a Construction and Demolition Recycling Plan is approved.

9 PAYMENT

Add to Section 9-1.01 GENERAL:

Work as specified in these specifications and as shown on the Plans for which no separate payment is provided for in the Bid Item List will be considered a subsidiary obligation of the Contractor and the cost thereof shall be included in the applicable Contract prices for the item to which the work applies.

Add to Section 9-1.02A MEASUREMENT, General with:

Contractor must submit a Schedule of Values for all lump sum bid items of work. The schedule of values must be submitted at the preconstruction conference. The schedule of values for each lump sum item must equal the total bid price for the item.

Add to Section 9-1.03 PAYMENT SCOPE with:

Any item of work that does not have separate bid item is considered included in the project cost of work and no additional compensation will be paid.

DIVISION II GENERAL CONSTRUCTION

16 TEMPORARY FACILITIES

The contractor shall provide and maintain service of portable restroom for the entire duration of construction. Portable restroom must be locked at end of each day.

DIVISION XI MATERIALS

91 PAINT

Add Section 91-1.01 GENERAL:

Contractor must provide 1 gallon of each paint color used during the project for building maintenance staff. Cost for paint provided for building maintenance staff shall be included in the price of the Finance and IT tenant improvement Lump Sum bid item.

DIVISION XII BUILDING CONSTRUCTION

99 BUILDING CONSTRUCTION

Add Section 99-1.01 GENERAL:

See Appendix C: Technical Specifications.

See Appendix D: Furniture Schedule.

Add Section 99-1.02 GENERAL:

SPECIAL PROVISIONS

Existing workstations shall be disassembled, stored, and reassembled per the furniture schedule. All work must be completed by an experienced furniture installation company similar to [Furniture Installation Team](#).

Contractor shall order all specified furniture items as detailed in the provided furniture scheduled (Appendix D). Coordinate with the City Inspector to confirm lead times and delivery schedules. All items shall be properly protected from delivery to installation. The contractor must ensure that all furniture items are free of defects and properly assembled and installed. This includes but is not limited to, workstations, desks, chairs, conference tables, filing cabinets and any other specified furniture items in the furniture schedule.

DIVISION XIII APPENDICES

Add Section 100-1.01 APPENDICES

Refer to Appendix A: Form of Agreement
Refer to Appendix B: Technical Specifications
Refer to Appendix C: City Hall Staging Exhibit
Refer to Appendix D: Furniture Schedule
Refer to Appendix E: Asbestos Testing Report
Refer to Appendix F: Material Board

APPENDIX

APPENDIX A - FORM OF AGREEMENT

THIS AGREEMENT, made on _____, by and between the City of San Luis Obispo, a municipal corporation and charter city, San Luis Obispo County, California (hereinafter called the Owner) and **COMPANY NAME** (hereinafter called the Contractor).

WITNESSETH:

That the Owner and the Contractor for the consideration stated herein agree as follows:

ARTICLE 1, SCOPE OF WORK: The Contractor shall perform everything required to be performed, shall provide and furnish all of the labor, materials, necessary tools, expendable equipment, and all utility and transportation services required to complete all the work of construction of

NAME OF PROJECT, SPEC NO.

in strict compliance with the plans and specifications therefor, including any and all Addenda, adopted by the Owner, in strict compliance with the Contract Documents hereinafter enumerated.

It is agreed that said labor, materials, tools, equipment, and services shall be furnished and said work performed and completed under the direction and supervision and subject to the approval of the Owner or its authorized representatives.

ARTICLE II, CONTRACT PRICE: The Owner shall pay the Contractor as full consideration for the faithful performance of this Contract, subject to any additions or deductions as provided in the Contract Documents, the contract prices as follows:

Item No.	Item	Unit of Measure	Estimated Quantity	Item Price (in figures)	Total (in figures)
1.					
2.					
3.					

BID TOTAL: \$ _____ **.00**

Payments are to be made to the Contractor in compliance with and subject to the provisions embodied in the documents made a part of this Contract.

Should any dispute arise respecting the true value of any work omitted, or of any extra work which the Contractor may be required to do, or respecting the size of any payment to the Contractor, during the performance of this Contract, said dispute shall be decided by the Owner and its decision shall be final, and conclusive.

ARTICLE III, COMPONENT PARTS OF THIS CONTRACT: The Contract consists of the following documents, all of which are as fully a part thereof as if herein set out in full, and if not attached, as if hereto attached:

1. Notice to Bidders and Information for Bidders
2. Standard Specifications and Engineering Standards
3. Special Provisions, any Addenda, Plans and Contract Change Orders
4. Caltrans Standard Specifications and Standard Plans 2015
5. Accepted Bid and Bid Bond
6. List of Subcontractors
7. Public Contract Code Sections 10285.1 Statement
8. Public Contract Code Section 10162 Questionnaire
9. Public Contract Code Section 10232 Statement
10. Labor Code Section 1725.5 Statements
11. Bidder Acknowledgements
12. Qualifications
13. Non-collusion Declaration
14. Agreement and Bonds
15. Insurance Requirements and Forms

ARTICLE IV INDEMNIFICATION: The Contractor shall indemnify, defend with legal counsel approved by City, and hold harmless City, its officers, officials, employees and volunteers from and against all liability, loss, damage, expense, cost (including without limitation reasonable legal counsel fees, expert fees and all other costs and fees of litigation) of every nature arising out of or in connection with the Contractor's negligence, recklessness or willful misconduct in the performance of work hereunder or its failure to comply with any of its obligations contained in this Agreement, except such loss or damage which is caused by the sole or active negligence or willful misconduct of the City. Should conflict of interest principles preclude a single legal counsel from representing both the City and the Contractor, or should the City otherwise find the Contractor's legal counsel unacceptable, then the Contractor shall reimburse the City its costs of defense, including without limitation reasonable legal counsel fees, expert fees and all other costs and fees of litigation. The Contractor shall promptly pay any final judgment rendered against the City (and its officers, officials, employees and volunteers) with respect to claims determined by a trier of fact to have been the result of the Contractor's negligent, reckless or wrongful performance. It is expressly understood and agreed that the foregoing provisions are intended to be as broad and inclusive as is permitted by the law of the State of California and will survive termination of this Agreement.

The Contractor obligations under this section apply regardless of whether such claim, charge, damage, demand, action, proceeding, loss, stop notice, cost, expense, judgment, civil fine or penalty, or liability was caused in part or contributed to by an Indemnitee. However, without affecting the rights of the City under any provision of this agreement, the Contractor shall not be required to indemnify and hold harmless the City for liability attributable to the active negligence of City, provided such active negligence is determined by agreement between the parties or by the findings of a court of competent jurisdiction. In instances where the City is shown to have been actively negligent and where the City's active negligence accounts for only a percentage of the liability involved, the obligation of

APPENDIX

the Contractor will be for that entire portion or percentage of liability not attributable to the active negligence of the City.

ARTICLE V. It is further expressly agreed by and between the parties hereto that should there be any conflict between the terms of this instrument and the bid of said Contractor, then this instrument shall control and nothing herein shall be considered as an acceptance of the said terms of said bid conflicting herewith.

IN WITNESS WHEREOF, the parties to these presents have hereunto set their hands this year and date first above written.

CITY OF SAN LUIS OBISPO
A Municipal Corporation

Whitney McDonald, City Manager

APPROVED AS TO FORM

CONTRACTOR:

Name of Company

J. Christine Dietrick
City Attorney

By: _____
Name of CAO/President
Its: CAO/PRESIDENT

(2nd signature required if Corporation):

By: _____
Name of Corporate Officer

Its: _____

APPENDIX B – TECHNICAL SPECIFICATIONS

SLO City Hall

990 Palm Street, San Luis Obispo, CA
San Luis Obispo, California 93401

Division	Section Title	Pages
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SPECIFICATIONS GROUP

Facility Construction Subgroup

DIVISION 02 - EXISTING CONDITIONS

024119	SELECTIVE DEMOLITION	4
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DIVISION 05 - METALS

054000	COLD-FORMED METAL FRAMING	5
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DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

066116	SOLID SURFACING FABRICATIONS	6
--------	------------------------------	---

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

079200	JOINT SEALANTS	4
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DIVISION 08 - OPENINGS

081213	HOLLOW METAL FRAMES	5
081416	FLUSH WOOD DOORS	6
084313	ALUMINUM-FRAMED STOREFRONTS	3
085313	VINYL WINDOWS	3

087100	DOOR HARDWARE	4
088000	GLAZING	4

DIVISION 09 - FINISHES

092900	GYPSON BOARD	6
093013	CERAMIC TILING	4
095123	ACOUSTICAL TILE CEILINGS	3
096513	RESILIENT BASE AND ACCESSORIES	6
096513.36	RESILIENT CARPET TRANSITIONS	4
096813	TILE CARPETING	5
099123	INTERIOR PAINTING	3

DIVISION 10 - SPECIALTIES

101423.16	ROOM-IDENTIFICATION PANEL SIGNAGE	3
102113	TOILET COMPARTMENTS	6
102800	TOILET, BATH, AND LAUNDRY ACCESSORIES	2

DIVISION 12 - FURNISHINGS

123216	MANUFACTURED PLASTIC-LAMINATE CLAD SHELVING	3
123500	MANUFACTURED CASEWORK	4
123661.19	QUARTZ AGGLOMERATE COUNTERTOPS	2
125913	PANEL-HUNG COMPONENT SYSTEM FURNITURE	9

END OF TABLE OF CONTENTS

SECTION 024119 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Demolition and removal of selected portions of building or structure.

1.2 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.

1.3 FIELD CONDITIONS

- A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
1. Before selective demolition, Owner will remove the following items:
 - a. **<Insert items to be removed by Owner>.**
- C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Storage or sale of removed items or materials on-site is not permitted.
- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
1. Maintain fire-protection facilities in service during selective demolition operations.
- F. Arrange selective demolition schedule so as not to interfere with Owner's operations.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

- B. Standards: Comply with ANSI/ASSP A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.
 - 1. Owner will arrange to shut off indicated services/systems when requested by Contractor.
 - 2. Arrange to shut off utilities with utility companies.
 - 3. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
 - 4. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated on Drawings to be removed.
 - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 - b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
 - c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
 - d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
 - e. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
 - f. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material and leave in place.

3.3 PROTECTION

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
- B. Temporary Shoring: Design, 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 being demolished.

- C. Remove temporary barricades and protections where hazards no longer exist.

3.4 SELECTIVE DEMOLITION

- A. General: 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 and as follows:
 - 1. 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. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
 - 2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 - 3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
 - 4. Maintain fire watch during and for at least <Insert number> hours after flame-cutting operations.
 - 5. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 - 6. Dispose of demolished items and materials promptly. Comply with requirements in Section 017419 "Construction Waste Management and Disposal."
- B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

3.5 CLEANING

- A. Remove demolition waste materials from Project site and recycle or dispose of them according to Section 017419 "Construction Waste Management and Disposal."
 - 1. Do not allow demolished materials to accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - 3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
 - 4. Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."
- B. Burning: Do not burn demolished materials.

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

END OF SECTION 024119

SECTION 054000 - COLD-FORMED METAL FRAMING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Interior non-load-bearing wall framing.

1.2 ACTION SUBMITTALS

A. Product Data: For the following:

1. Cold-formed steel framing materials.
2. Interior non-load-bearing wall framing.
3. Vertical deflection clips.
4. Single deflection track.
5. Double deflection track.
6. Drift clips.
7. Post-installed anchors.
8. Power-actuated anchors.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following

1. CEMCO; California Expanded Metal Products Co.
2. ClarkDietrich.
3. Nuconsteel, A Nucor Company.

2.2 PERFORMANCE REQUIREMENTS

A. Cold-Formed Steel Framing Standards: Unless more stringent requirements are indicated, framing shall comply with AISI S100, AISI S200, and the following:

1. Wall Studs: AISI S211.
2. Headers: AISI S212.
3. Lateral Design: AISI S213.

2.3 COLD-FORMED STEEL FRAMING MATERIALS

- A. Steel Sheet: ASTM A1003/A1003M, Structural Grade, Type H, metallic coated, of grade and coating designation as follows:
 - 1. Grade: ST33H .
 - 2. Coating: G60 , A60 , AZ50 , or GF30 .
- B. Steel Sheet for Vertical Deflection Clips: ASTM A653/A653M, structural steel, zinc coated, of grade and coating as follows:
 - 1. Grade: 33 .
 - 2. Coating: G60 .

2.4 INTERIOR NON-LOAD-BEARING WALL FRAMING

- A. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
 - 1. Minimum Base-Metal Thickness: 0.0329 inch .
 - 2. Flange Width: 1.25" .
 - 3. Section Properties: .
- B. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with unstiffened flanges, and matching minimum base-metal thickness of steel studs.
- C. Double Deflection Tracks: Manufacturer's double, deep-leg, U-shaped steel tracks, consisting of nested inner and outer tracks; unpunched, with unstiffened flanges.

2.5 FRAMING ACCESSORIES

- A. Fabricate steel-framing accessories from ASTM A1003/A1003M, Structural Grade, Type H, metallic coated steel sheet, of same grade and coating designation used for framing members.
- B. Provide accessories of manufacturer's standard thickness and configuration, unless otherwise indicated.

2.6 ANCHORS, CLIPS, AND FASTENERS

- A. Steel Shapes and Clips: ASTM A36/A36M, zinc coated by hot-dip process according to ASTM A123/A123M.
- B. Anchor Bolts: ASTM F1554, Grade 36 , threaded carbon-steel hex-headed bolts, carbon-steel nuts, and flat, hardened-steel washers; zinc coated by hot-dip process according to ASTM A153/A153M, Class C .

- C. Post-Installed Anchors: Fastener systems with bolts of same basic metal as fastened metal, if visible, unless otherwise indicated; with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC01 ICC-ES AC193 ICC-ES AC58 or ICC-ES AC308 as appropriate for the substrate.
 - 1. Uses: Securing cold-formed steel framing to structure.
 - 2. Type: Torque-controlled expansion anchor .
 - 3. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B633 or ASTM F1941, Class Fe/Zn 5, unless otherwise indicated.
 - 4. Material for Exterior or Interior Locations and Where Stainless Steel Is Indicated: Alloy Group 2 stainless-steel bolts, ASTM F593, and nuts, ASTM F594.
- D. Power-Actuated Anchors: Fastener systems with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.
- E. Mechanical Fasteners: ASTM C1513, corrosion-resistant-coated, self-drilling, self-tapping, steel drill screws.
 - 1. Head Type: Low-profile head beneath sheathing; manufacturer's standard elsewhere.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Install load-bearing shims or grout between the underside of load-bearing wall bottom track and the top of foundation wall or slab at locations with a gap larger than 1/4 inch to ensure a uniform bearing surface on supporting concrete or masonry construction.

3.2 INSTALLATION, GENERAL

- A. Cold-formed steel framing may be shop or field fabricated for installation, or it may be field assembled.
- B. Install cold-formed steel framing according to AISI S200, AISI S202, and manufacturer's written instructions unless more stringent requirements are indicated.
- C. Install cold-formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened.
- D. Install framing members in one-piece lengths unless splice connections are indicated for track or tension members.
- E. Install temporary bracing and supports to secure framing and support loads equal to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire

integrated supporting structure has been completed and permanent connections to framing are secured.

- F. Do not bridge building expansion joints with cold-formed steel framing. Independently frame both sides of joints.
- G. Install insulation, specified in Section 072100 "Thermal Insulation," in framing-assembly members, such as headers, sills, boxed joists, and multiple studs at openings, that are inaccessible on completion of framing work.
- H. Fasten hole-reinforcing plate over web penetrations that exceed size of manufacturer's approved or standard punched openings.

3.3 INSTALLATION OF INTERIOR NON-LOAD-BEARING WALL FRAMING

- A. Install continuous tracks sized to match studs. Align tracks accurately and securely anchor to supporting structure.
- B. Fasten both flanges of studs to top and bottom track unless otherwise indicated. Space studs as follows:
 - 1. Stud Spacing: 16 inches .
- C. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar requirements.
- D. Isolate non-load-bearing steel framing from building structure to prevent transfer of vertical loads while providing lateral support.
 - 1. Install single deep-leg deflection tracks and anchor to building structure.
 - 2. Install double deep-leg deflection tracks and anchor outer track to building structure.
 - 3. Connect vertical deflection clips to studs and anchor to building structure.
 - 4. Connect drift clips to cold-formed steel metal framing and anchor to building structure.
- E. Install horizontal bridging in wall studs, spaced vertically in rows indicated but not more than 48 inches apart. Fasten at each stud intersection.
 - 1. Channel Bridging: Cold-rolled steel channel, welded or mechanically fastened to webs of punched studs.
 - 2. Strap Bridging: Combination of flat, taut, steel sheet straps of width and thickness indicated and stud-track solid blocking of width and thickness to match studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges.
- F. Install miscellaneous framing and connections, including stud kickers, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.

3.4 INSTALLATION TOLERANCES

- A. Install cold-formed steel framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet and as follows:
 - 1. Space individual framing members no more than plus or minus 1/8 inch from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.

3.5 REPAIRS

- A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed steel framing with galvanized repair paint according to ASTM A780/A780M and manufacturer's written instructions.

END OF SECTION 054000

SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Silicone joint sealants.
2. Mildew-resistant joint sealants.
3. Latex joint sealants.

1.2 ACTION SUBMITTALS

A. Product Data: For each joint-sealant product.

PART 2 - PRODUCTS

2.1 JOINT SEALANTS, GENERAL

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

2.2 SILICONE JOINT SEALANTS

- A. Silicone, S, NS, 100/50, NT: Single-component, nonsag, plus 100 percent and minus 50 percent movement capability, nontraffic-use, neutral-curing silicone joint sealant; ASTM C 920, Type S, Grade NS, Class 100/50, Use NT.
- B. Silicone, S, NS, 50, NT: Single-component, nonsag, plus 50 percent and minus 50 percent movement capability, nontraffic-use, neutral-curing silicone joint sealant; ASTM C 920, Type S, Grade NS, Class 50, Use NT.
- C. Silicone, S, NS, 35, NT: Single-component, nonsag, plus 35 percent and minus 35 percent movement capability, nontraffic-use, neutral-curing silicone joint sealant; ASTM C 920, Type S, Grade NS, Class 35, Use NT.
- D. Silicone, S, NS, 25, NT: Single-component, nonsag, plus 25 percent and minus 25 percent movement capability, nontraffic-use, neutral-curing silicone joint sealant; ASTM C 920, Type S, Grade NS, Class 25, Use NT.
- E. Silicone, S, NS, 100/50, T, NT: Single-component, nonsag, plus 100 percent and minus 50 percent movement capability, traffic- and nontraffic-use, neutral-curing silicone joint sealant; ASTM C 920, Type S, Grade NS, Class 100/50, Uses T and NT.

- F. Silicone, S, NS, 50, T, NT: Single-component, nonsag, plus 50 percent and minus 50 percent movement capability, traffic- and nontraffic-use, neutral-curing silicone joint sealant; ASTM C 920, Type S, Grade NS, Class 50, Uses T and NT.
- G. Silicone, S, NS, 25, T, NT: Single-component, nonsag, plus 25 percent and minus 25 percent movement capability, traffic- and nontraffic-use, neutral-curing silicone joint sealant; ASTM C 920, Type S, Grade NS, Class 25, Uses T and NT.
- H. Silicone, S, P, 100/50, T, NT: Single-component, pourable, plus 100 percent and minus 50 percent movement capability traffic- and nontraffic-use, neutral-curing silicone joint sealant; ASTM C 920, Type S, Grade P, Class 100/50, Uses T and NT.
- I. Silicone, S, P, 25, T, NT: Single-component, pourable, plus 25 percent and minus 25 percent movement capability, traffic- and nontraffic-use, neutral-curing silicone joint sealant; ASTM C 920, Type S, Grade P, Class 25, Uses T and NT.
- J. Silicone, M, P, 100/50, T, NT: Multicomponent, pourable, plus 100 percent and minus 50 percent movement capability, traffic- and nontraffic-use, neutral-curing silicone joint sealant; ASTM C 920, Type M, Grade P, Class 100/50, Uses T and NT.

2.3 MILDEW-RESISTANT JOINT SEALANTS

- A. Mildew-Resistant Joint Sealants: Formulated for prolonged exposure to humidity with fungicide to prevent mold and mildew growth.
- B. Silicone, Mildew Resistant, Acid Curing, S, NS, 25, NT: Mildew-resistant, single-component, nonsag, plus 25 percent and minus 25 percent movement capability, nontraffic-use, acid-curing silicone joint sealant; ASTM C 920, Type S, Grade NS, Class 25, Use NT.
- C. Acrylic Latex: Acrylic latex or siliconized acrylic latex, ASTM C 834, Type OP, Grade NF.

2.4 MISCELLANEOUS MATERIALS

- A. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials.
- B. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:

1. Remove laitance and form-release agents from concrete.
 2. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion.
- B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces.

3.2 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with ASTM C 1193 and joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
- B. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
- C. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
- D. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
1. Place sealants so they directly contact and fully wet joint substrates.
 2. Completely fill recesses in each joint configuration.
 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- E. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
1. Provide concave joint profile per Figure 8A in ASTM C 1193 unless otherwise indicated.

3.3 JOINT-SEALANT SCHEDULE

- A. Joint-Sealant Application: Interior joints in vertical surfaces and horizontal nontraffic surfaces not subject to significant movement.
1. Joint Locations:
 - a. Other joints as indicated on Drawings.
 2. Joint Sealant: Acrylic latex .
 3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors .

- B. Joint-Sealant Application: Mildew-resistant interior joints in vertical surfaces and horizontal nontraffic surfaces.
1. Joint Locations:
 - a. Joints between plumbing fixtures and adjoining walls, floors, and counters.
 - b. Tile control and expansion joints where indicated.
 2. Joint Sealant: Silicone, mildew resistant, acid curing, S, NS, 25, NT .
 3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors .

END OF SECTION 079200

SECTION 081213 - HOLLOW METAL FRAMES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Interior standard steel frames.
2. Interior custom hollow-metal frames.
3. Borrowed lites.

1.2 DEFINITIONS

- A. Minimum Thickness: Minimum thickness of base metal without coatings according to NAAMM-HMMA 803 or SDI A250.8.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

B. Sustainable Design Submittals:

1. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.

- C. Shop Drawings: Include elevations, frame profiles, metal thicknesses, and wall opening conditions.

- D. Schedule: Prepared by or under the supervision of supplier, using same reference numbers for details and openings as those on Drawings.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following

1. Amweld Building Products Division.
2. Fenestra Incorporated.
3. Steelcraft; an Allegion brand.

2.2 STANDARD STEEL FRAMES

- A. Construct hollow-metal frames to comply with standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified.
- B. Interior Frames: SDI A250.8. At locations indicated in the Door and Frame Schedule .
 - 1. Materials: Metallic-coated steel sheet, minimum thickness of 0.053 inch .
 - 2. Sidelite and Transom Frames: Fabricated from same thickness material as adjacent door frame.
 - 3. Construction: Knocked down or welded per plan
 - 4. Exposed Finish: Prime or untreated per plan .

2.3 CUSTOM HOLLOW-METAL FRAMES

- A. Interior Frames: NAAMM-HMMA 861. At locations indicated in the Door and Frame Schedule .
 - 1. Materials: Metallic-coated steel sheet, minimum thickness of 0.053 inch .
 - 2. Sidelite and Transom Frames: Fabricated from same thickness material as adjacent door frame.
 - 3. Construction: Knocked down or welded per plan
 - 4. Exposed Finish: Prime or untreated per plan

2.4 BORROWED LITES

- A. Fabricate of metallic-coated steel sheet, minimum thickness of 0.053 inch .
- B. Construction: Knocked down .

2.5 FRAME ANCHORS

- A. Jamb Anchors:
 - 1. Type: Anchors of minimum size and type required by applicable door and frame standard, and suitable for performance level indicated.
 - 2. Quantity: Minimum of three anchors per jamb, with one additional anchor for frames with no floor anchor. Provide one additional anchor for each 24 inches of frame height above 7 feet .
 - 3. Postinstalled Expansion Anchor: Minimum 3/8-inch- diameter bolts with expansion shields or inserts, with manufacturer's standard pipe spacer.
- B. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor.
- C. Floor Anchors for Concrete Slabs with Underlayment: Adjustable-type anchors with extension clips, allowing not less than 2-inch height adjustment. Terminate bottom of frames at top of underlayment.

- D. Material: ASTM A 879/A 879M, Commercial Steel (CS), 04Z coating designation; mill phosphatized.

2.6 MATERIALS

- A. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
- B. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
- C. Hot-Rolled Steel Sheet: ASTM A 1011/A 1011M, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.
- D. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B.
- E. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A 153/A 153M.
- F. Power-Actuated Fasteners in Concrete: Fabricated from corrosion-resistant materials.
- G. Glazing: Comply with requirements in Section 088000 "Glazing."

2.7 FABRICATION

- A. Hollow-Metal Frames: Fabricate in one piece except where handling and shipping limitations require multiple sections. Where frames are fabricated in sections, provide alignment plates or angles at each joint, fabricated of metal of same or greater thickness as frames.
 - 1. Sidelite and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by welding, or by rigid mechanical anchors.
 - 2. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated.
 - 3. Door Silencers: Except on weather-stripped frames, drill stops to receive door silencers as follows. Keep holes clear during construction.
 - a. Single-Door Frames: Drill stop in strike jamb to receive three door silencers.
 - b. Double-Door Frames: Drill stop in head jamb to receive two door silencers.
- B. Hardware Preparation: Factory prepare hollow-metal frames to receive templated mortised hardware, and electrical wiring; include cutouts, reinforcement, mortising, drilling, and tapping according to SDI A250.6, the Door Hardware Schedule, and templates.
 - 1. Reinforce frames to receive nontemplated, mortised, and surface-mounted door hardware.
 - 2. Comply with BHMA A156.115 for preparing hollow-metal frames for hardware.
- C. Glazed Lites: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints.

1. Multiple Glazed Lites: Provide fixed and removable stops and moldings so that each glazed lite is capable of being removed independently.
2. Provide fixed frame moldings on outside of exterior and on secure side of interior frames. Provide loose stops and moldings on inside of hollow-metal frames.
3. Coordinate rabbet width between fixed and removable stops with glazing and installation types indicated.
4. Provide stops for installation with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.

2.8 STEEL FINISHES

- A. Prime Finish: Clean, pretreat, and apply manufacturer's standard primer.

1. Shop Primer: SDI A250.10.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install hollow-metal frames plumb, rigid, properly aligned, and securely fastened in place. Comply with approved Shop Drawings and with manufacturer's written instructions. Comply with SDI A250.11 .
- B. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces without damage to completed Work.
1. Where frames are fabricated in sections, field splice at approved locations by welding face joint continuously; grind, fill, dress, and make splice smooth, flush, and invisible on exposed faces. Touch-up finishes.
 2. Install frames with removable stops located on secure side of opening.
- C. Solidly pack mineral-fiber insulation inside frames.
- D. Installation Tolerances: Adjust hollow-metal frames to the following tolerances:
1. Squareness: Plus or minus 1/16 inch , measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
 2. Alignment: Plus or minus 1/16 inch , measured at jambs on a horizontal line parallel to plane of wall.
 3. Twist: Plus or minus 1/16 inch , measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
 4. Plumbness: Plus or minus 1/16 inch , measured at jambs at floor.
- E. Glazing: Comply with installation requirements in Section 088000 "Glazing" and with hollow-metal manufacturer's written instructions.

3.2 CLEANING AND TOUCHUP

- A. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying, rust-inhibitive primer.
- B. Metallic-Coated Surface Touchup: Clean abraded areas and repair with galvanizing repair paint according to manufacturer's written instructions.
- C. Factory-Finish Touchup: Clean abraded areas and repair with same material used for factory finish according to manufacturer's written instructions.
- D. Touchup Painting: Cleaning and touchup painting of abraded areas of paint are specified in painting Sections.

END OF SECTION 081213

SECTION 081416 - FLUSH WOOD DOORS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Five-ply flush wood veneer-faced doors for transparent finish.
2. Five-ply flush wood doors for opaque finish.
3. Solid-core flush wood doors with plastic-laminate-faces.
4. Factory priming finishing flush wood doors.
5. Factory fitting flush wood doors to frames and factory machining for hardware.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product, including the following:

1. Door core materials and construction.
2. Door edge construction
3. Door face type and characteristics.
4. Door louvers.
5. Door trim for openings.
6. Door frame construction.

PART 2 - PRODUCTS

2.1 FLUSH WOOD DOORS, GENERAL

A. Quality Standard: In addition to requirements specified, comply with "Architectural Woodwork Standards." ANSI/WDMA I.S. 1A.

1. Provide labels and certificates from AWI certification program indicating that doors comply with requirements of grades specified.

B. Regional Materials: Manufacture wood doors within 500 miles of Project site from materials that have been extracted, harvested, or recovered, as well as manufactured, within 500 miles of Project site.

C. Regional Materials: Manufacture wood doors within 500 miles of Project site.

D. Certified Wood: Certify wood doors as "FSC Pure" or "FSC Mixed Credit" in accordance with FSC STD-01-00 and FSC STD-40-004.

- E. Adhesives: Do not use adhesives that contain urea formaldehyde.
 - F. Adhesives: Use adhesives that meet the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
 - G. Composite Wood Products: Verify products are made without added urea formaldehyde.
 - H. Composite Wood Products: Verify products comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- 2.2 SOLID-CORE, FIVE-PLY FLUSH WOOD VENEER-FACED DOORS FOR TRANSPARENT FINISH
- A. Interior Doors :
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Aspiro Select Wood Veneer Interior Doors, Plain Sliced White Maple, Satin Sheen by Masonite Architectural or comparable product by one of the following:
 - a. OregonDoor
 - b. Pacific Architectural Wood Products
 - 2. Performance Grade:
 - a. ANSI/WDMA I.S. 1A Heavy Duty unless otherwise indicated on Drawings.
 - b. ANSI/WDMA I.S. 1A Extra Heavy Duty: Classrooms public toilets janitor's closets assembly spaces exits and where indicated on Drawings.
 - c. ANSI/WDMA I.S. 1A Standard Duty: Closets (not including janitor's closets) and private toilets .
 - 3. Architectural Woodwork Standards Grade: Premium .
 - 4. Faces: Single-ply wood veneer not less than 1/50 inch thick.
 - a. Species: Select white maple .
 - b. Cut: Plain sliced (flat sliced) .
 - c. Match between Veneer Leaves: Book match.
 - d. Assembly of Veneer Leaves on Door Faces: Center-balance match.
 - e. Pair and Set Match: Provide for doors hung in same opening.
 - f. Room Match: Match door faces within each separate room or area of building. Corridor-door faces do not need to match where they are separated by 20 feet or more.
 - g. Room Match: Provide door faces of compatible color and grain within each separate room or area of building.
 - h. Blueprint Match: Where indicated, provide doors with faces produced from same flitches as adjacent wood paneling and arranged to provide blueprint match with wood paneling. Comply with requirements in Section 064216 "Flush Wood Paneling."
 - 5. Exposed Vertical Edges: Same species as faces or a compatible species - Architectural Woodwork Standards edge Type A .
 - 6. Core for Non-Fire-Rated Doors:

- a. ANSI A208.1, Grade LD-2 particleboard.
- B. Blocking: Provide wood blocking in particleboard-core doors as follows:
 - 1. 5-inch top-rail blocking, in doors indicated to have closers.
 - 2. 5-inch bottom-rail blocking, in exterior doors and doors indicated to have kick, mop, or armor plates.
 - 3. 5-inch midrail blocking, in doors indicated to have exit devices.
- C. Provide doors with glued-wood-stave or WDMA I.S. 10 structural-composite-lumber cores instead of particleboard cores for doors scheduled to receive exit devices in Section 087100 "Door Hardware."
 - 1. Glued wood stave.
 - a. WDMA I.S. 10 structural composite lumber.
- D. Screw Withdrawal, Face: 475 lb.
- E. Screw Withdrawal, Edge: 475 lb.
 - 1. Either glued wood stave or WDMA I.S. 10 structural composite lumber.
 - 2. Construction: Five plies, hot-pressed bonded (vertical and horizontal edging is bonded to core), with entire unit abrasive planed before veneering.

2.3 SOLID-CORE FIVE-PLY FLUSH WOOD DOORS FOR OPAQUE FINISH

- A. Interior Solid-Core Doors :
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Oshkosh Door Company.
 - b. Pacific Architectural Wood Products.
 - c. VT Industries Inc.
 - 2. Performance Grade: ANSI/WDMA I.S. 1A Extra Heavy Duty Heavy Duty Standard Duty as indicated on Drawings.
 - 3. Performance Grade:
 - a. ANSI/WDMA I.S. 1A Heavy Duty unless otherwise indicated on Drawings.
 - b. ANSI/WDMA I.S. 1A Extra Heavy Duty: Classrooms, public toilets, janitor's closets assembly spaces exits and where indicated on Drawings.
 - c. ANSI/WDMA I.S. 1A Standard Duty: Closets (not including janitor's closets) and private toilets and where indicated on Drawings.
 - 4. ANSI/WDMA I.S. 1A Grade: Premium .
 - 5. Faces: Any closed-grain hardwood of mill option .
 - 6. Exposed Vertical Edges: Any closed-grain hardwood.
 - a. Mineral-Core Doors: At hinge stiles, provide laminated-edge construction with improved screw-holding capability and split resistance. Comply with specified requirements for exposed edges.
- B. Screw-Holding Capability: 475 lbf in accordance with WDMA T.M. 10.

1. Core for Non-Fire-Rated Doors:
 - a. ANSI A208.1, Grade LD-2 particleboard.
- C. Blocking: Provide wood blocking in particleboard-core doors as follows:
 1. 5-inch top-rail blocking, in doors indicated to have closers.
 2. 5-inch bottom-rail blocking, in exterior doors and doors indicated to have kick, mop, or armor plates.
 3. 5-inch midrail blocking, in doors indicated to have exit devices.
- D. Provide doors with glued-wood-stave or WDMA I.S. 10 structural-composite-lumber cores instead of particleboard cores for doors scheduled to receive exit devices in Section 087100 "Door Hardware."
 1. Glued wood stave.
 - a. WDMA I.S. 10 structural composite lumber.
- E. Screw Withdrawal, Face: 475 lb.
- F. Screw Withdrawal, Edge: 475 lb.
 1. Either glued wood stave or WDMA I.S. 10 structural composite lumber.
 2. Construction: Five plies, hot-pressed bonded (vertical and horizontal edging is bonded to core), with entire unit abrasive planed before veneering.

2.4 FABRICATION

- A. Factory fit doors to suit frame-opening sizes indicated.
 1. Comply with clearance requirements of referenced quality standard for fitting unless otherwise indicated.
 2. Comply with NFPA 80 requirements for fire-rated doors.
- B. Factory machine doors for hardware that is not surface applied.
 1. Locate hardware to comply with DHI-WDHS-3.
 2. Comply with final hardware schedules, door frame Shop Drawings, ANSI/BHMA-156.115-W, and hardware templates.
 3. Coordinate with hardware mortises in metal frames, to verify dimensions and alignment before factory machining.
 4. For doors scheduled to receive electrified locksets, provide factory-installed raceway and wiring to accommodate specified hardware.
- C. Openings: Factory cut and trim openings through doors.
 1. Light Openings: Trim openings with moldings of material and profile indicated.
 2. Glazing: Factory install glazing in doors indicated to be factory finished. Comply with applicable requirements in Section 088000 "Glazing."
 3. Louvers: Factory install louvers in prepared openings.

2.5 FACTORY PRIMING

- A. Doors for Opaque Finish: Factory prime faces, all four edges, edges of cutouts, and mortises with one coat of wood primer specified in Section 099123 "Interior Painting."

2.6 FACTORY FINISHING

- A. Comply with referenced quality standard for factory finishing.
 - 1. Complete fabrication, including fitting doors for openings and machining for hardware that is not surface applied, before finishing.
 - 2. Finish faces, all four edges, edges of cutouts, and mortises.
 - 3. Stains and fillers may be omitted on top and bottom edges, edges of cutouts, and mortises.
- B. Factory finish doors where indicated in schedules or on Drawings as factory finished.
- C. Transparent Finish:
 - 1. ANSI/WDMA I.S. 1A Grade: Premium .
 - 2. Finish: ANSI/WDMA I.S. 1A TR-6 Catalyzed Polyurethane.
 - 3. Staining: As selected by Architect from manufacturer's full range .
 - 4. Effect: Semifilled finish, produced by applying an additional finish coat to partially fill the wood pores.
 - 5. Sheen: Satin .
- D. Opaque Finish:
 - 1. ANSI/WDMA I.S. 1A Grade: Premium .
 - 2. Finish: ANSI/WDMA I.S. 1A OP-6 Catalyzed Polyurethane.
 - 3. Color: As selected by Architect from manufacturer's full range.
 - 4. Sheen: Satin .

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Hardware: For installation, see Section 087100 "Door Hardware."
- B. Install doors to comply with manufacturer's written instructions and referenced quality standard, and as indicated.
- C. Install frames level, plumb, true, and straight.
 - 1. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches.
 - 2. Anchor frames to anchors or blocking built in or directly attached to substrates.

- a. Secure with countersunk, concealed fasteners and blind nailing.
 - b. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with woodwork.
- D. For factory-finished items, use filler matching finish of items being installed.
- E. Job-Fitted Doors:
 - 1. Align and fit doors in frames with uniform clearances and bevels as indicated below.
 - a. Do not trim stiles and rails in excess of limits set by manufacturer or permitted for fire-rated doors.
 - 2. Machine doors for hardware.
 - 3. Seal edges of doors, edges of cutouts, and mortises after fitting and machining.
 - 4. Clearances:
 - a. Provide 1/8 inch at heads, jambs, and between pairs of doors.
 - b. Provide 1/2 inch from bottom of door to top of decorative floor finish or covering unless otherwise indicated on Drawings.
 - c. Where threshold is shown or scheduled, provide 1/4 inch from bottom of door to top of threshold unless otherwise indicated.
 - d. Comply with NFPA 80 for fire-rated doors.
 - 5. Bevel non-fire-rated doors 1/8 inch in 2 inches at lock and hinge edges.
 - 6. Bevel fire-rated doors 1/8 inch in 2 inches at lock edge; trim stiles and rails only to extent permitted by labeling agency.
- F. Factory-Fitted Doors: Align in frames for uniform clearance at each edge.
- G. Factory-Finished Doors: Restore finish before installation if fitting or machining is required at Project site.

3.2 FIELD QUALITY CONTROL

- A. Inspections:
 - 1. Provide inspection of installed Work through AWT's Quality Certification Program, certifying that wood doors and frames, including installation, comply with requirements of AWI/AWMCA/WT's "Architectural Woodwork Standards" for the specified grade.
 - 2. Egress Door Inspections: Inspect each door equipped with panic hardware, each door equipped with fire exit hardware, each door located in an exit enclosure, each electrically controlled egress door, and each door equipped with special locking arrangements in accordance with NFPA 101, Section 7.2.1.15.
- B. Repair or remove and replace installations where inspections indicate that they do not comply with specified requirements.
- C. Reinspect repaired or replaced installations to determine if replaced or repaired door assembly installations comply with specified requirements.

3.3 ADJUSTING

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

END OF SECTION 081416

SECTION 084313 - ALUMINUM-FRAMED STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Aluminum-framed storefront systems.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.3 QUALITY ASSURANCE

A. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.

1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. EFCO Corporation.
2. Kawneer Company, Inc.; Arconic Corporation.
3. Trulite Glass & Aluminum Solutions, LLC.
4. Tubelite Inc.

2.2 PERFORMANCE REQUIREMENTS

A. General Performance: Comply with performance requirements specified, as determined by testing of aluminum-framed storefronts representing those indicated for this Project without failure due to defective manufacture, fabrication, installation, or other defects in construction.

1. Aluminum-framed storefronts shall withstand movements of supporting structure, including, but not limited to, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
2. Failure also includes the following:
 - a. Thermal stresses transferring to building structure.
 - b. Glass breakage.
 - c. Noise or vibration created by wind and thermal and structural movements.
 - d. Loosening or weakening of fasteners, attachments, and other components.
 - e. Failure of operating units.

2.3 ALUMINUM-FRAMED STOREFRONT SYSTEMS

- A. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
 1. Interior Vestibule Framing Construction: Nonthermal .
 2. Glazing System: Retained mechanically with gaskets on four sides .
 3. Glazing Plane: Front .
 4. Finish: Color anodic finish Baked-enamel or powder-coat finish .
 5. Fabrication Method: Field-fabricated stick system.
 6. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 7. Steel Reinforcement: As required by manufacturer.
- B. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.
- C. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.

2.4 FABRICATION

- A. Form or extrude aluminum shapes before finishing.
- B. Fabricate components that, when assembled, have the following characteristics:
 1. Profiles that are sharp, straight, and free of defects or deformations.
 2. Accurately fitted joints with ends coped or mitered.
 3. Physical and thermal isolation of glazing from framing members.
 4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
 5. Provisions for field replacement of glazing from interior for vision glass and exterior for spandrel glazing or metal panels.
 6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
- C. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

- D. After fabrication, clearly mark components to identify their locations in Project in accordance with Shop Drawings.

2.5 ALUMINUM FINISHES

- A. Color Anodic Finish: AAMA 611, AA-M12C22A32/A34, Class II, 0.010 mm or thicker.
 - 1. Color: As selected by Architect from full range of industry colors and color densities .
- B. Baked-Enamel or Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils.
 - 1. Color and Gloss: As selected by Architect from manufacturer's full range .

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Comply with manufacturer's written instructions.
- B. Do not install damaged components.
- C. Fit joints to produce hairline joints free of burrs and distortion.
- D. Rigidly secure nonmovement joints.
- E. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.
- F. Seal perimeter and other joints watertight unless otherwise indicated.
- G. Metal Protection:
 - 1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
 - 2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
- H. Set continuous sill members and flashing in full sealant bed, as specified in Section 079200 "Joint Sealants," to produce weathertight installation.
- I. Install joint filler behind sealant as recommended by sealant manufacturer.
- J. Install components plumb and true in alignment with established lines and grades.

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SECTION 084313 -
ALUMINUM-FRAMED
STOREFRONTS

END OF SECTION 084313

SECTION 085313 - VINYL WINDOWS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes vinyl-framed windows.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 WINDOW PERFORMANCE REQUIREMENTS

- A. Product Standard: Comply with AAMA/WDMA/CSA 101/I.S.2/A440 for definitions and minimum standards of performance, materials, components, accessories, and fabrication unless more stringent requirements are indicated.
 - 1. Window Certification: WDMA certified with label attached to each window.

2.2 VINYL WINDOWS

- A. Products: Subject to compliance with requirements, provide products by one of the following:
 - 1. Andersen Windows.
 - 2. Milgard Manufacturing, LLC.
 - 3. Pella Corporation.
- B. Operating Types: As indicated on Drawings Cased Opening .
- C. Frames and Sashes: Impact-resistant, UV-stabilized PVC complying with AAMA/WDMA/CSA 101/I.S.2/A440.
 - 1. Finish: Integral color .
- D. Glass: Clear annealed glass, ASTM C 1036, Type 1, Class 1, q3.
 - 1. Kind: Fully tempered where indicated on Drawings .
- E. Glazing System: Manufacturer's standard factory-glazing system that produces weathertight seal .

- F. Hardware, General: Provide manufacturer's standard corrosion-resistant hardware sized to accommodate sash weight and dimensions.
 - 1. Exposed Hardware Color and Finish: As selected by Architect from manufacturer's full range .
- G. Weather Stripping: Provide full-perimeter weather stripping for each operable sash unless otherwise indicated.
- H. Fasteners: Noncorrosive and compatible with window members, trim, hardware, anchors, and other components.
 - 1. Exposed Fasteners: Do not use exposed fasteners to greatest extent possible. For application of hardware, use fasteners that match finish hardware being fastened.

2.3 FABRICATION

- A. Fabricate vinyl windows in sizes indicated. Include a complete system for installing and anchoring windows.
- B. Glaze vinyl windows in the factory.
- C. Weather strip each operable sash to provide weathertight installation.
- D. Hardware: Mount hardware through double walls of vinyl extrusions or provide corrosion-resistant reinforcement.
- E. Complete fabrication, assembly, finishing, hardware application, and other work in the factory to greatest extent possible. Disassemble components only as necessary for shipment and installation. Allow for scribing, trimming, and fitting at Project site.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with manufacturer's written instructions for installing windows, hardware, accessories, and other components. For installation procedures and requirements not addressed in manufacturer's written instructions, comply with installation requirements in ASTM E 2112.
- B. Install windows level, plumb, square, true to line, without distortion, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction to produce weathertight construction.
- C. Adjust operating sashes and hardware for a tight fit at contact points and weather stripping for smooth operation and weathertight closure.

- D. Clean exposed surfaces immediately after installing windows. Remove excess sealants, glazing materials, dirt, and other substances.
- E. Remove and replace sashes if glass has been broken, chipped, cracked, abraded, or damaged during construction period.

END OF SECTION 085313

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Mechanical door hardware for the following:
 - a. Swinging doors.
2. Cylinders for door hardware specified in other Sections.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Door hardware schedule.

1.3 INFORMATIONAL SUBMITTALS

- A. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.5 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 1. Warranty Period: Three years from date of Substantial Completion unless otherwise indicated below:
 - a. Exit Devices: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

- B. Means of Egress Doors: Latches do not require more than 15 lbf to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
- C. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the USDOJ's "2010 ADA Standards for Accessible Design" and California Building Code .

2.2 HINGES

- A. Hinges: BHMA A156.1.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. Hager Companies.
 - b. SpacePlus System.
 - c. or equivalent.

2.3 EXIT DEVICES AND AUXILIARY ITEMS

- A. Exit Devices and Auxiliary Items: BHMA A156.3.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. Allegion plc.
 - b. Hager Companies.
 - c. SARGENT Manufacturing Company; ASSA ABLOY.
 - d. Stanley Commercial Hardware; a division of Stanley Security Solutions.
 - e. or equivalent.

2.4 SURFACE CLOSERS

- A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written instructions for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. Allegion plc.
 - b. Hager Companies.
 - c. SARGENT Manufacturing Company; ASSA ABLOY.

2.5 MECHANICAL STOPS AND HOLDERS

A. Wall- and Floor-Mounted Stops: BHMA A156.16.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. Allegion plc.
 - b. Hager Companies.
 - c. Rockwood Manufacturing Company; an ASSA ABLOY Group company.

2.6 THRESHOLDS

A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. Hager Companies.
 - b. Assa Abloy
 - c. Or equivalent.

2.7 FINISHES

A. Provide finishes complying with BHMA A156.18 as indicated in door hardware schedule.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights indicated on Drawings unless otherwise indicated or required to comply with governing regulations.
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work. Do not install surface-mounted items until finishes have been completed on substrates involved.
- C. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings . Verify location with Architect.
 1. Configuration: Provide one power supply for each door opening with electrified door hardware.

- D. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they will impede traffic.
- E. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- F. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.2 ADJUSTING

- A. Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

END OF SECTION 087100

SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Glass products.
2. Glazing sealants.
3. Glazing tapes.
4. Miscellaneous glazing materials.

1.2 COORDINATION

- A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances to achieve proper safety margins for glazing retention under each design load case, load case combination, and service condition.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1.4 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For glass.
- B. Preconstruction adhesion and compatibility test report.
- C. Sample warranties.

1.5 WARRANTY

- A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer agrees to replace coated-glass units that deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.
1. Warranty Period: 1 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
- B. Acoustic Performance:
 - 1. Interior Glazing: 34 STC.

2.2 GLASS PRODUCTS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 - 1. NGA Publications: "Glazing Manual."
- B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
- C. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than thickness indicated.
- D. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where fully tempered float glass is indicated, provide fully tempered float glass.

2.3 GLASS PRODUCTS

- A. Clear Annealed Float Glass: ASTM C1036, Type I, Class 1 (clear), Quality-Q3.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. The Sliding Door Company.
- B. Fully Tempered Float Glass: ASTM C1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
- C. Heat-Strengthened Float Glass: ASTM C1048, Kind HS (heat strengthened), Type I, Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.

- D. Ceramic-Coated Vision Glass: ASTM C1048, Condition C, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3; and complying with Specification No. 95-1-31 in NGA's "Engineering Standards Manual."

2.4 MISCELLANEOUS GLAZING MATERIALS

- A. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.

PART 3 - EXECUTION

3.1 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
- C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- F. Provide spacers for glass lites where length plus width is larger than 50 inches.
- G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and in accordance with requirements in referenced glazing publications.

3.2 GASKET GLAZING (DRY)

- A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
- B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners

and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended in writing by gasket manufacturer.

- D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended in writing by gasket manufacturer.
- E. Install gaskets so they protrude past face of glazing stops.

3.3 CLEANING AND PROTECTION

- A. Immediately after installation, remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
 - 1. If, despite such protection, contaminating substances do contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.
- C. Remove and replace glass that is damaged during construction period.

3.4 MONOLITHIC GLASS SCHEDULE

- A. Clear Glass Type : Fully tempered float glass.
 - 1. Minimum Thickness: 6 mm .
 - 2. Safety glazing required.

END OF SECTION 088000

SECTION 092900 - GYPSUM BOARD

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Interior gypsum board.
2. Tile backing panels.

1.2 ACTION SUBMITTALS

A. Product Data: For the following:

1. Gypsum wallboard.
2. Gypsum board, Type X.
3. Gypsum ceiling board.
4. Abuse-resistant gypsum board.
5. Impact-resistant gypsum board.
6. Mold-resistant gypsum board.
7. Glass-mat, water-resistant backing board.
8. Cementitious backer units.
9. Interior trim.
10. Joint treatment materials.
11. Sound-attenuation blankets.
12. Acoustical sealant.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E90 and classified according to ASTM E413 by an independent testing agency.
- B. Verify ceiling and wall materials are GreenGuard Gold certified.

2.2 GYPSUM BOARD, GENERAL

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

2.3 INTERIOR GYPSUM BOARD

A. Gypsum Wallboard: ASTM C1396/C1396M.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. Georgia-Pacific Gypsum LLC.
 - b. National Gypsum Company.
 - c. USG Corporation.
2. Thickness: 5/8 inch.
3. Long Edges: Tapered .

B. Gypsum Board, Type X: ASTM C1396/C1396M.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. Georgia-Pacific Gypsum LLC.
 - b. National Gypsum Company.
 - c. USG Corporation.
2. Thickness: 5/8 inch.
3. Long Edges: Tapered .

C. Gypsum Ceiling Board: ASTM C1396/C1396M.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. Georgia-Pacific Gypsum LLC.
 - b. National Gypsum Company.
 - c. USG Corporation.
2. Thickness: 5/8 inch.
3. Long Edges: Tapered.

D. Abuse-Resistant Gypsum Board: ASTM C1396/C1396M gypsum board, tested according to ASTM C1629/C1629M.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. Georgia-Pacific Gypsum LLC.
 - b. National Gypsum Company.
 - c. USG Corporation.
2. Core: 5/8 inch , Type X.
3. Surface Abrasion: ASTM C1629/C1629M, meets or exceeds Level 2 requirements.
4. Indentation: ASTM C1629/C1629M, meets or exceeds Level 2 requirements.
5. Soft-Body Impact: ASTM C1629/C1629M, meets or exceeds Level 2 requirements.
6. Long Edges: Tapered.

7. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.
- E. Impact-Resistant Gypsum Board: ASTM C1396/C1396M gypsum board, tested according to ASTM C1629/C1629M.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. Georgia-Pacific Gypsum LLC.
 - b. National Gypsum Company.
 - c. USG Corporation.
 2. Core: 5/8 inch , Type X.
 3. Surface Abrasion: ASTM C1629/C1629M, meets or exceeds Level 2 requirements.
 4. Indentation: ASTM C1629/C1629M, meets or exceeds Level 2 requirements.
 5. Soft-Body Impact: ASTM C1629/C1629M, meets or exceeds Level 2 requirements.
 6. Hard-Body Impact: ASTM C1629/C1629M, meets or exceeds Level 2 requirements according to test in Annex A1.
 7. Long Edges: Tapered.
 8. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.
- F. Mold-Resistant Gypsum Board: ASTM C1396/C1396M. With moisture- and mold-resistant core and paper surfaces.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. Georgia-Pacific Gypsum LLC.
 - b. National Gypsum Company.
 - c. USG Corporation.
 2. Core: 5/8 inch , Type X.
 3. Long Edges: Tapered.
 4. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

2.4 TILE BACKING PANELS

- A. Glass-Mat, Water-Resistant Backing Board: ASTM C1178/C1178M, with manufacturer's standard edges.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. Georgia-Pacific Gypsum LLC.
 - b. National Gypsum Company.
 - c. USG Corporation.
 2. Core: 5/8 inch , Type X.
 3. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

- B. Cementitious Backer Units: ANSI A118.9 and ASTM C1288 or ASTM C1325, with manufacturer's standard edges.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following
 - a. CertainTeed Corporation.
 - b. National Gypsum Company.
 - c. USG Corporation.
 2. Thickness: 5/8 inch .
 3. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

2.5 TRIM ACCESSORIES

- A. Interior Trim: ASTM C1047.
1. Material: Galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized-steel sheet .
 2. Shapes:
 - a. Cornerbead.
 - b. Bullnose bead.
 - c. LC-Bead: J-shaped; exposed long flange receives joint compound.
 - d. L-Bead: L-shaped; exposed long flange receives joint compound.
 - e. U-Bead: J-shaped; exposed short flange does not receive joint compound.
 - f. Expansion (control) joint.
 - g. Curved-Edge Cornerbead: With notched or flexible flanges.
- B. Exterior Trim: ASTM C1047.
1. Material: Hot-dip galvanized-steel sheet, plastic, or rolled zinc .
 2. Shapes:
 - a. Cornerbead.
 - b. LC-Bead: J-shaped; exposed long flange receives joint compound.
 - c. Expansion (Control) Joint: One-piece, rolled zinc with V-shaped slot and removable strip covering slot opening.

2.6 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C475/C475M.
- B. Joint Tape:
1. Interior Gypsum Board: Paper.
 2. Tile Backing Panels: As recommended by panel manufacturer.
- C. Joint Compound for Interior Gypsum Board: For each coat, use formulation that is compatible with other compounds applied on previous or for successive coats.

1. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
 - a. Use setting-type compound for installing paper-faced metal trim accessories.
3. Fill Coat: For second coat, use setting-type, sandable topping compound.
4. Finish Coat: For third coat, use setting-type, sandable topping compound.
5. Skim Coat: For final coat of Level 5 finish, use drying-type, all-purpose compound .

D. Joint Compound for Tile Backing Panels:

1. Glass-Mat, Water-Resistant Backing Panel: As recommended by backing panel manufacturer.
2. Cementitious Backer Units: As recommended by backer unit manufacturer.

2.7 AUXILIARY MATERIALS

- A. Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.
- B. Steel Drill Screws: ASTM C1002 unless otherwise indicated.
 1. Use screws complying with ASTM C954 for fastening panels to steel members from 0.033 to 0.112 inch thick.
 2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.
- C. Sound-Attenuation Blankets: ASTM C665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.
- D. Acoustical Sealant: As specified in Section 079219 "Acoustical Joint Sealants."

PART 3 - EXECUTION

3.1 INSTALLATION AND FINISHING OF PANELS

- A. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- B. Comply with ASTM C840.
- C. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments. Provide 1/4- to 1/2-inch- wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.

- D. For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- E. Prefill open joints and damaged surface areas.
- F. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
- G. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C840:
 - 1. Level 4: At panel surfaces that will be exposed to view unless otherwise indicated .
 - a. Primer and its application to surfaces are specified in Section 099123 "Interior Painting."
- H. Glass-Mat Faced Panels: Finish according to manufacturer's written instructions.

3.2 PROTECTION

- A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- B. Remove and replace panels that are wet, moisture damaged, and mold damaged.

END OF SECTION 092900

SECTION 093013 - CERAMIC TILING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Ceramic mosaic tile.
2. Glazed wall tile.
3. Tile backing panels.
4. Waterproof membranes.
5. Grout materials.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 PRODUCTS, GENERAL

- A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
- B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.

2.2 CERAMIC MOSAIC TILE

A. Ceramic Mosaic Tile Type : Glazed .

1. Products: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Daltile.
2. Certification: Porcelain tile certified by the Porcelain Tile Certification Agency.
3. Module Size: 2x2 in Piece, 12x24 in. Sheet .
4. Pattern: Criss Cross Mosaic
5. Thickness: 1/4 inch.
6. Surface: Smooth, without abrasive admixture.

7. Product Use Classification: Interior, Wet (IW) .
8. Physical Properties: Chemical resistant when tested with indicated chemicals in accordance with ASTM C650.
9. Tile Color and Pattern: Color: Arctic White D617 .
10. Grout Color: As selected by Architect from manufacturer's full range .

2.3 GLAZED WALL TILE

A. Glazed Wall Tile Type :

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Fireclay Tile .
2. Module Size: 4x4 in. or 3x6 in.
3. Face Size Variation: Rectified.
4. Thickness: 5/16 inch.
5. Tile Color and Pattern: Color: Adobe, Rosemary, or Crater Lake. Pattern: Staggered Brickwork, Horizontal Grid, or Vertical Grid .
6. Grout Color: As selected by Architect from manufacturer's full range .
7. Mounting:
 - a. Factory, back mounted.
 - b. Pregrouted sheets of tiles are factory assembled and grouted with manufacturer's standard white silicone rubber.

2.4 GROUT MATERIALS

- ### A. Sand-Portland Cement Grout: ANSI A108.10, consisting of white or gray cement and white or colored aggregate as required to produce color indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- #### A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
 2. Verify that concrete substrates for tile floors installed with adhesives bonded mortar bed or thinset mortar comply with surface finish requirements in ANSI A108.01 for installations indicated.

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

3.2 PREPARATION

- A. Remove coatings, including curing compounds or other coatings, that are incompatible with tile-setting materials.
- B. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with adhesives or thinset mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.
- C. Where indicated, prepare substrates to receive waterproof membrane by applying a reinforced mortar bed that complies with ANSI A108.1 and is sloped 1/4 inch per foot toward drains.
- D. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.
- E. Substrate Flatness:
 - 1. For tile shorter than 15 inches, confirm that structure or substrate is limited to variation of 1/4 inch in 10 ft. from the required plane, and no more than 1/16 inch in 12 inches when measured from tile surface high points.
 - 2. For large format tile, tile with at least one edge 15 inches or longer, confirm that structure or substrate is limited to 1/8 inch in 10 ft. from the required plane, and no more than 1/16 inch in 24 inches when measured from tile surface high points.
- F. Field-Applied Temporary Protective Coating: If indicated under tile type or needed to prevent grout from staining or adhering to exposed tile surfaces, precoat them with continuous film of temporary protective coating, taking care not to coat unexposed tile surfaces.

3.3 INSTALLATION OF CERAMIC TILE SYSTEM

- A. Install tile backing panels and treat joints in accordance with ANSI A108.11 and manufacturer's written instructions for type of application indicated.
- B. Install waterproof membrane to comply with ANSI A108.13 and manufacturer's written instructions to produce waterproof membrane of uniform thickness that is bonded securely to substrate.
 - 1. Allow waterproof membrane to cure and verify by testing that it is watertight before installing tile or setting materials over it.
- C. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instructions to produce membrane of uniform thickness that is bonded securely to substrate.
 - 1. Allow crack isolation membrane to cure before installing tile or setting materials over it.

- D. Install tile in accordance with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of ANSI A108 series that are referenced in TCNA installation methods and specified in tile installation schedules, and apply to types of setting and grouting materials used.
- E. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- F. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- G. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.
- H. Where accent tile differs in thickness from field tile, vary setting-bed thickness so that tiles are flush.
- I. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.
- J. Lay out tile wainscots to dimensions indicated or to next full tile beyond dimensions indicated.
- K. Movement Joints: Provide movement joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated on Drawings. Form joints during installation of setting materials, mortar beds, and tile. Keep joints free of dirt, debris, and setting materials prior to filling with sealants. Do not saw-cut joints after installing tiles.
 - 1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.
- L. Metal Flooring Transitions: Install at locations indicated where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with top of tile where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with or below top of tile and no threshold is indicated.

END OF SECTION 093013

SECTION 095123 - ACOUSTICAL TILE CEILINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Acoustical tiles.
2. Metal suspension system.
3. Accessories.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

2.2 ACOUSTICAL TILES

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Armstrong World Industries, Inc.
 2. CertainTeed; SAINT-GOBAIN.
 3. USG Corporation.
- B. Acoustical Tile Standard: Manufacturer's standard tiles of configuration indicated that comply with ASTM E1264.
- C. Color: As selected from manufacturer's full range .
- D. Noise Reduction Coefficient (NRC): .60 or higher .
- E. Edge/Joint Detail: As indicated by manufacturer's designation .
- F. Thickness: 3/4 inch .
- G. Modular Size: 24 by 24 inches. .

2.3 METAL SUSPENSION SYSTEM

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Armstrong Ceiling & Wall Solutions.
 - 2. USG Corporation.
- B. Metal Suspension-System Standard: Manufacturer's standard, direct-hung, fully concealed, metal suspension system that complies with applicable requirements in ASTM C635/C635M.
- C. Direct-Hung, Double-Web Suspension System: Main and cross runners roll formed from and capped with cold-rolled steel sheet, prepainted, electrolytically zinc coated, or hot-dip galvanized, G30 coating designation.
 - 1. Structural Classification: Heavy-duty system.
 - 2. Access: Upward Downward and end pivoted or side pivoted, with initial access openings of size indicated below and located throughout ceiling within each module formed by main and cross runners, with additional access available by progressively removing remaining acoustical tiles.
 - a. Initial Access Opening: In each module, 24 by 24 inches .

2.4 ACCESSORIES

- A. Attachment Devices: Size for five times the design load indicated in ASTM C635/C635M, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Measure each ceiling area and establish layout of acoustical tiles to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width tiles at borders unless otherwise indicated.
- B. Layout openings for penetrations centered on the penetrating items.

3.2 INSTALLATION OF SUSPENDED ACOUSTICAL TILE CEILINGS

- A. Install suspended acoustical tile ceilings in accordance with ASTM C636/C636M and manufacturer's written instructions.
- B. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical tiles.

1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
 2. Do not use exposed fasteners, including pop rivets, on moldings and trim.
- C. Arrange directionally patterned acoustical tiles as indicated on reflected ceiling plans.

END OF SECTION 095123

SECTION 096513 - RESILIENT BASE AND ACCESSORIES

PART 1 - PART 1 – GENERAL

1.1 GENERAL PROVISIONS

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

1.2 SUMMARY

- A. Section includes:
 - 1. Resilient Wall Base

1.3 SUBMITTALS, RELATED DOCUMENTS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures.
- B. Product Data: Submit manufacturers documentation for each material and accessory proposed for use (available at www.flexcofloors.com).
 - 1. Technical data sheet
 - 2. Installation Instructions
 - 3. Care & Maintenance document
 - 4. Warranty
- C. Samples for Verification: For each type of product indicated, in manufacturer's standard- size samples of each resilient product color, texture and pattern required.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Provide resilient wall base materials manufactured in the United States of America by a firm with a minimum of 10 years' experience with resilient rubber materials of type equivalent to those specified.
- B. Provide resilient wall base, flooring materials, adhesives, accessories and subfloor preparation products from one manufacturer to ensure color matching and compatibility.
- C. Manufacturer shall be capable of providing technical training and technical field service representation.

1.5 RELATED WORK

- A. Installer must be professional, licensed, insured and acceptable to manufacturer of resilient flooring materials. Project Managers or Field Supervisors must be INSTALL (International Standards & Training Alliance) certified CFI (Certified Floorcovering Installers) Certified and/or an FCICA (The Flooring Contractors Association) CIM (Certified Installation Manager) for the requirements of the project or equivalent.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within the range recommended by Flexco of 65 degrees F (18 degrees C) and 85 degrees F (29 degrees C).

1.7 PROJECT CONDITIONS

- A. Install resilient products after other finishing operations, including painting, have been completed.
- B. Maintain ambient temperatures within range of (± 10 degrees) 65 degrees F (18 degrees C) and 85 degrees F (29 degrees C) in the spaces to receive the resilient products during:
 - 1. 48 hours before installation.
 - 2. During installation.
 - 3. 48 hours after installation.
- C. Maintain relative humidity between 40% and 65% during installation.
- D. Avoid conditions in which dew point causes condensation on the installation surface.

1.8 WARRANTY

- A. Provide manufacturer's standard limited commercial warranty to cover manufacturing defects.

PART 2 - PART 2 - PRODUCTS

2.1 MANUFACTURERS: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

- A. Basis-of-Design: Flexco Floors | 1401 East 6th Street | Tuscumbia, AL 35674 | P: (800) 633-3151

2.2 PRODUCTS

- A. FLEXCO WALLFLOWERS THERMOSET RUBBER (TS) WALL BASE - specify rubber wall base with the following characteristics: Meets the performance requirements for the following Industry Standards:
1. ASTM F1861, Standard Specification for Resilient Wall Base, Type TS (rubber, vulcanized thermoset), Group 1 (solid, homogeneous)
 2. Style: B Cove
 3. Size: 6 in.
 4. Specify size by name and description: (remove all but the size selecting) Flexco Wallflowers Rubber Wall Base: 48" length sections, Flexco Wallflowers Wall Base: 120' length rolls
 5. Color: Umber 078, to match existing.

2.3 INSTALLATION AND MAINTENANCE MATERIALS

- A. Substrate/Background Preparation Products: Adhesives: Adhesives should be selected based on the site conditions and use of the space being installed.
- B. Recommended Adhesive Products:
1. Excelsior WB-600 Acrylic Wall Base Adhesive provided by Flexco
 - a. Unit Size: 30 oz. cartridge, 1 Gallon & 4 Gallon
 - b. Coverage: 30 – 70 linear feet per cartridge, 180 – 340 linear feet per gallon
 - c. Standard installations over porous backgrounds
 - d. 100 % solids, solvent free and low VOCs
 - e. Hard set adhesive adding to dimensionally stable materials
 - f. Excellent sheer strength
 - g. Excelsior C-630 Contact Adhesive provided by Flexco
 - h. Unit Size: 1 Quart
 - i. Coverage: 20 – 40 Square Feet per unit / 120 – 140 Linear Feet per unit
 - j. Standard installations over porous and non-porous substrates
 - k. Hard set adhesive adding to dimensionally stable materials
 - l. Superior bond strength
 - m. Great for environments with topical moisture
 2. Accessories: Items needed to complete the installation. Recommended accessory products:
 - a. Flexco Factory Inside Corners
 - b. Flexco Factory Outside Corners
 - c. Color-matched Caulks
 3. Maintenance Materials: Proper maintenance of the installation is critical to the long term performance of the rubber wall base products being specified. Using the appropriate chemicals to maintain the product according to the environment in which it is specified is critical. Recommended maintenance products:
 - a. Excelsior NC-900, All-Purpose Neutral pH Cleaner provided by Flexco
 - b. For daily and routine maintenance

PART 3 - PART 3 – EXECUTION

3.1 GENERAL

A. General Contractor Responsibilities:

1. Supply a safe, climate controlled building as detailed in Flexco Technical Data Sheets.
2. Ensure substrate/background meets the requirements of ASTM F1861, Flexco Technical Data Sheets and Excelsior Technical Data Sheets.
3. Provide a secure storage area that is maintained permanently or temporarily at normal operating temperature and humidity conditions between 65 degrees F and 85degrees F and between 40% and 65% relative humidity, for at least 48-hours prior to and during the application of the wall base, so the contractor can acclimate the rubber base materials per manufacturer's instructions.
4. Provide an installation area that is weather tight and maintained either permanently or temporarily at ambient service temperature and humidity. Normal operating temperature and humidity conditions are between 65degrees F and 85degrees F and between 40% and 65% relative humidity, for at least 48-hours prior to and during the application of the wall base per the manufacturer's instructions.
5. Ensure areas with direct prolonged exposure to sunlight are protected with protective UVA/UVB restrictive coatings or films.
6. In areas where the walls are subject to direct sunlight through doors or windows, the doors and windows should be covered using blinds, curtains, cardboard or similar for the time of the installation and 72-hours after the installation to allow the adhesive to cure. Note: These areas should be installed using wet adhesives only.
7. Conduct initial maintenance prior to final usage per the Flexco Care & Maintenance Documents. Do not conduct initial maintenance until adhesive has cured per the adhesive technical data.
8. Provide trained installers that are professional, licensed, insured and acceptable to manufacturer of resilient rubber wall base materials.
9. Ensure installers or installation teams meet one of the following requirements:
10. Have completed INSTALL (International Standards & Training Alliance)
11. CFI (Certified Floorcovering Installers) training programs
12. Certified by INSTALL or CFI.
13. Are being supervised by Project Managers or Field Supervisors that are INSTALL (International Standards & Training Alliance) certified, CFI (Certified Floorcovering Installers) Certified and/or an FCICA (The Flooring Contractors Association) CIM (Certified Installation Manager).
14. Follow all requirements in the appropriate Flexco and/or Excelsior Technical Data Sheets, Care & Maintenance Documents, Warranties and other technical documents or instructions.

3.2 EXAMINATION

- A. General: Follow guidelines laid out in Division 01, Section 017100 – Examination and Preparation, as well as Section 014300 – Quality Assurance.

- B. Verification of Conditions: Inspect all substrates/backgrounds to ensure they are clean, smooth, permanently dry, structurally sound and without voids. Confirm all areas are properly sealed and acclimated per manufacturer's requirements.
- C. Verification of Products: In accordance with manufacturer's installation requirements, visually inspect material for size, style, color or visual defects prior to installing. Any material that is incorrect or visually defective shall not be installed.

3.3 SUBSTRATE/BACKGROUND PREPARATION

- A. General: Follow guidelines laid out in Division 01, Section 017100 – Examination and preparation. All work required ensuring substrate/background meets manufacturers' guidelines are the responsibility of the general contractor.
- B. Preparation: Ensure substrate/background meets the requirements of ASTM F1861 for resilient wall base and/or Flexco Technical Data Sheets and Excelsior Technical Data Sheets.
 - 1. Substrates/backgrounds must be free of visible water or moisture, dust, sealers, paint, residual adhesives and adhesive removers, solvents, wax, oil, grease, mold, mildew and any other extraneous coating, film, material or foreign matter.
 - 2. Acclimate all products to be used during the installation and the installation environment prior to installation according to the manufacturers written instructions.
 - 3. Fill cracks, holes, depressions and irregularities in the substrate/background to prevent transferring through to the surface of the resilient wall base.

3.4 INSTALLATION

- A. General: Follow all relevant guidelines detailed in Division 01, as well as wall base and adhesive manufacturer's technical data sheets.
- B. Resilient Rubber Wall Base: Install material in accordance with manufacturer's recommendations.
 - 1. Select the appropriate adhesive for the application and job site conditions.
 - 2. Install material according to roll sequence or with like run numbers.
 - 3. Ensure material is rolled appropriately into the adhesive using a hand roller.

3.5 CLEANING & MAINTENANCE

- A. General: Clean up installation area and vacuum dust or wipe material to remove any dirt, dust or debris.
- B. Initial Maintenance: Conduct initial maintenance per the manufacturer's recommended procedures stated in the Maintenance Documents. All documentation is available upon request or from the Flexco website: www.flexcofloors.com.

- C. Regular Maintenance: Excelsior Cleaning products are the recommended products for use when performing maintenance. All can be found linked to the product on the Flexco website or at www.excelsiorproducts.net.
- D. Conduct maintenance on regular intervals as needed. Insufficient cleaning will reduce the wear life of the wall base and alter the aesthetic properties of the wall base. The amount of maintenance depends directly upon the amount of dirt and particulates the area is subjected to.

3.6 CLOSEOUT ACTIVITIES

- A. General: Follow all federal, state and local requirements and Division 01 Section 017600 – Protecting Installed Construction and Section 017800 – Closeout Submittal requirements for these activities, protecting installed construction.
- B. Protection: Protect newly installed material from damage by other trades. Be sure all construction debris is picked up and vacuumed or removed prior to leaving the area. Limit usage and foot traffic according to the adhesive's requirements. When moving appliances or heavy furniture, protect wall base from scuffing and tearing using temporary floor protection as well.

END OF SECTION 096513

SECTION 096513.36 - RESILIENT CARPET TRANSITIONS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Specialty moldings and trim for flooring including the following:
 - 1. Carpet metal trim.
 - 2. Coving, square, and bevel caps.
 - 3. Accessories including drive nails, straightedge, trowels.

1.2 RELATED SECTIONS

- A. Section 096513 - Resilient Base and Accessories.
- B. Section 096813 - Tile Carpeting.
- C. Section 096543 – Linoleum Flooring.

1.3 SUBMITTALS

- A. Submit under provisions of Section 013000 - Administrative Requirements.
- B. Product Data:
 - 1. Manufacturer's data sheets on each product to be used.
 - 2. Preparation instructions and recommendations.
 - 3. Storage and handling requirements and recommendations.
 - 4. Typical installation methods.
- C. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.

- B. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
- C. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.
- D. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
 - 1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
 - 2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
 - 3. Retain mock-up during construction as a standard for comparison with completed work.
 - 4. Do not alter or remove mock-up until work is completed or removal is authorized.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
- B. Protect from damage due to weather, excessive temperature, and construction operations.

1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.7 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer:
 - 1. Futura Transitions.
 - 2. Approved equal.
- B. Requests for substitutions will be considered in accordance with provisions of Section 016000 - Product Requirements.

2.2 CARPET METAL TRIM

2.3 COVING, SQUARE, AND BEVEL CAPS

- A. Coving Cap, 1/8 inch: For coving carpet or resilient floors.
 - 1. Basis of Design: Futura Transitions CM 901.

2.4 ACCESSORIES

- A. Drive Nails:
 - 1. Finish: Black.
- B. Straight Edge: Acts as a guide to cut carpet in a straight line.
 - 1. Length: 36 inches (914 mm).
 - 2. Length: 75 inches (1905 mm).

2.5 ALUMINUM FINISHES

- A. Finish:
 - 1. Silver.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly constructed and prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions, approved submittals and in proper relationship with adjacent construction.

3.4 CLEANING AND PROTECTION

- A. Clean products in accordance with the manufacturer's recommendations.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 096513.36

SECTION 096813 - TILE CARPETING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Modular carpet tile.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1.3 INFORMATIONAL SUBMITTALS

- A. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.5 QUALITY ASSURANCE

1.6 WARRANTY

- A. Special Warranty for Carpet Tiles: Manufacturer agrees to repair or replace components of carpet tile installation that fail in materials or workmanship within specified warranty period.

1. Warranty Period: 10 years from date of Substantial Completion.

- B. Submit a copy of the manufacturer's standard warranty to the Procurement Officer within the first 60 days of Government occupancy. Government is to be a beneficiary of the terms of this warranty.

PART 2 - PRODUCTS

2.1 CARPET TILE

- A. Basis-of-Design Product: Subject to compliance with requirements, provide modular carpet tile by Interface Inc. or comparable product by one of the following:

1. Shaw Industries Group, Inc.; Berkshire Hathaway Company.
- B. Patterns and Colors: (Refer to Finish Schedules for locations).
 1. Style: Shaw Constellation Carpet Tile
 2. Color: Aquarius
- C. Fiber Content: 100 percent recycled nylon .
- D. Fiber Type: Ecosolution Q100 Nylon .
- E. Pile Characteristic: Tufted pattern loop
- F. Density: 8727 oz./cu. yd .
- G. Stitches: 9.5 per inch .
- H. Gage: 1/10 in .
- I. Surface Pile Weight: 24 oz./sq/ yd .
- J. Primary Backing/Backcoating: Synthetic .
- K. Secondary Backing: Ecosolution Q100 Nylon .
- L. Size: 24 by 24 inches .
- M. Sustainable Design Requirements:
 1. Sustainable Product Certification: Platinum level certification according to ANSI/NSF 140.
 2. Verify carpet and cushion comply with testing and product requirements of CRI's "Green Label Plus" testing program.
 3. Verify flooring products comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
 4. Recycle Content of Total Product Weight: Must be Post-consumer recovered content - Modular Tile: minimum of 30%.
- N. Performance Characteristics:
 1. Appearance Retention Rating: must meet Texture Appearance Retention Rating (TARR) ratings as specified: =3.0 TARR (Moderate Traffic) for private offices, = 3.0 TARR (Heavy) for training, conference and court rooms, =3.5 TARR (Severe) for open offices, cafeteria, corridors, lobbies. Severe traffic, 3.5 minimum according to ASTM D7330 using ASTM D-5252 Hexapod Drum Test as per commercial carpet test procedure..
 2. Critical Radiant Flux Classification: Not less than 0.45 W/sq. cm according to NFPA 253.
 3. Dry Breaking Strength: Not less than 100 lbf according to ASTM D2646.
 4. Tuft Bind: Not less than 8 lbf according to ASTM D1335.

5. Dimensional Tolerance: Within 1/32 inch of specified size dimensions, as determined by physical measurement.
6. Dimensional Stability: 0.2 percent or less according to ISO 2551 (Aachen Test).
7. Colorfastness to Crocking: Not less than 4, wet and dry, according to AATCC 165.
8. Colorfastness to Light: Not less than 4 after 40 AFU (AATCC fading units) according to AATCC 16, Option E.
9. Electrostatic Propensity: Less than 3.5 kV according to AATCC 134.
10. Flammability: Meets CPSC-FF-1-70, DOC-FF-1-70 Methenamine Tablet Test criteria
11. Flooring Radiant Panel Test: Meets NFPA Class I or II depending upon occupancy and fire code when tested under ASTM E-648 for glue down installation.
12. Smoke Density: NBS Smoke Chamber - less than 450 Flaming Mode when tested under ASTM E-662.
13. Testing must be performed in a NVLAP accredited laboratory.

2.2 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet tile manufacturer.
- B. Adhesives: Water-resistant, mildew-resistant, nonstaining, pressure-sensitive type to suit products and subfloor conditions indicated, that comply with flammability requirements for installed carpet tile, and are recommended by carpet tile manufacturer for releasable installation.
 1. Verify adhesives have a VOC content not more than 50 g/L when calculated according to 40 CFR 59, Subpart D (EPA method 24).

PART 3 - EXECUTION

3.1 CARPET RECLAMATION

- A. Reclamation of existing carpet to be determined with potential vendor. When carpet is replaced, submit certification documentation from the reclamation facility to the Procurement Officer.

3.2 EXAMINATION

- A. Perform bond test recommended in writing by adhesive manufacturer.
 1. Access Flooring Systems: Verify access floor substrate is compatible with carpet tile and adhesive, if any, and underlayment surface is gaps greater than 1/8 inch and protrusions more than 1/32 inch.

3.3 PREPARATION

- A. General: Comply with the Carpet and Rug Institute's CRI 104 and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile.
- B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch wide or wider, and protrusions more than 1/32 inch unless more stringent requirements are required by manufacturer's written instructions.
- C. Concrete Substrates: Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by adhesive and carpet tile manufacturers.
- D. Metal Substrates: Clean grease, oil, soil and rust, and prime if recommended in writing by adhesive manufacturer. Rough sand painted metal surfaces and remove loose paint. Sand aluminum surfaces, to remove metal oxides, immediately before applying adhesive.
- E. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

3.4 INSTALLATION

- A. General: Comply with the Carpet and Rug Institute's CRI 104, Section 10, "Carpet Tile," and with carpet tile manufacturer's written installation instructions.
- B. Installation Method: Glue down; install every tile with full-spread, releasable, pressure-sensitive adhesive .
- C. Maintain dye-lot integrity. Do not mix dye lots in same area.
- D. Maintain pile-direction patterns recommended in writing by carpet tile manufacturer.
- E. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet tile manufacturer.
- F. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- G. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on carpet tile as marked on subfloor. Use nonpermanent, nonstaining marking device.
- H. Install pattern parallel to walls and borders.

- I. Access Flooring: 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.
- J. Protect carpet tile against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet tile manufacturer.

END OF SECTION 096813

SECTION 099123 - INTERIOR PAINTING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Primers.
2. Solvent-based finish coatings.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Dunn-Edwards Corporation (a Nippon Paint Holdings Co. Ltd. company).
2. Sherwin-Williams Company (The).

2.2 PAINT PRODUCTS, GENERAL

A. Material Compatibility:

1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.

B. Colors: Refer to Finish Plan, A-113 and Interior Elevations A-211. ..

1. Primary: Match Existing.
2. P-1; Accent Color, Shared Spaces: Dunn Edwards, Island View, DE5848
3. P-2; Accent Color, IT: Dunn Edwards, Fresh Thyme, DE5654
4. P-3; Accent Color, Finance: Dunn Edwards, October Haze, DE5171
5. C-1: Breakroom Cabinet Color: Sherwin Williams, Mindful Gray, SW 7016

2.3 SOLVENT-BASED FINISH COATS

- A. Interior, Alkyd, Semigloss: Pigmented, solvent-based alkyd paint for use on primed/sealed interior plaster, gypsum, wood, and metal walls primarily in residential and moderate traffic commercial environments.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Benjamin Moore & Co.
 - b. Sherwin-Williams Company (The).
 - 2. Gloss Level: Manufacturer's standard semigloss finish , match existing.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
- B. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations applicable to substrates and paint systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
- C. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.

3.3 INSTALLATION

- A. Apply paints according to manufacturer's written instructions.
- B. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

3.4 CLEANING AND PROTECTION

- A. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- B. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- C. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.5 INTERIOR PAINTING SCHEDULE

- A. Gypsum Board and Plaster Substrates:
 - 1. Latex over Latex Sealer System :
 - a. Prime Coat: Interior latex primer sealer.
 - b. Intermediate Coat: Matching topcoat.
 - c. Topcoat: Interior, latex, satin semigloss .
- B. Insulation-Covering Substrates: Including .

END OF SECTION 099123

SECTION 101423.16 - ROOM-IDENTIFICATION PANEL SIGNAGE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes room-identification signs that are directly attached to the building.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For room-identification signs.
 - 1. Include fabrication and installation details and attachments to other work.
 - 2. Show sign mounting heights, locations of supplementary supports to be provided by other installers, and accessories.
 - 3. Show message list, typestyles, graphic elements , including raised characters and Braille, and layout for each sign at least half size .

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Accessibility Standard: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design" the ABA standards of the Federal agency having jurisdiction and ICC A117.1 .

2.2 ROOM-IDENTIFICATION SIGNS

- A. Room-Identification Sign 41/A-107 : Sign system with smooth, uniform surfaces; with message and characters having uniform faces, sharp corners, and precisely formed lines and profiles; and as follows:
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide ACE Sign Systems, Inc.; or comparable product by one of the following:
 - a. ASI Sign Systems, Inc.
 - b. inpro Corporation.
 - c. Vista System, LLC.
 - d. ACE Sign Systems, Inc.
 - 2. Laminated-Sheet Sign: Photopolymer face sheet with raised graphics laminated over subsurface graphics to acrylic backing sheet to produce composite sheet.

- a. Composite-Sheet Thickness: Manufacturer's standard for size of sign .
- b. Surface-Applied Graphics: Applied paint .
- c. Color(s): TBD .
3. Sign-Panel Perimeter: Finish edges smooth.
 - a. Edge Condition at Vertical Edges at Horizontal Edges : Square cut .
 - b. Corner Condition in Elevation: As indicated on Drawings .
4. Mounting: Surface mounted to wall with two-face tape .

2.3 SIGN MATERIALS

- A. Acrylic Sheet: ASTM D 4802, category as standard with manufacturer for each sign, Type UVF (UV filtering).

2.4 FABRICATION

- A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.
 1. Mill joints to a tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
 2. Conceal connections if possible; otherwise, locate connections where they are inconspicuous.
 3. Provide rabbets, lugs, and tabs necessary to assemble components and to attach to existing work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match sign finish.
- B. Subsurface-Applied Graphics: Apply graphics to back face of clear face-sheet material to produce precisely formed image. Image shall be free of rough edges.
- C. Subsurface-Etched Graphics: Reverse etch back face of clear face-sheet material. Fill resulting copy with manufacturer's standard enamel. Apply opaque manufacturer's standard background color coating over enamel-filled copy.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.
 1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
 2. Install signs so they do not protrude or obstruct according to the accessibility standard.
 3. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.

B. Mounting Methods:

1. Two-Face Tape: Clean bond-breaking materials from substrate surface and remove loose debris. Apply tape strips symmetrically to back of sign and of suitable quantity to support weight of sign without slippage. Keep strips away from edges to prevent visibility at sign edges. Place sign in position, and push to engage tape adhesive.

END OF SECTION 101423.16

SECTION 102113 - TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. High Pressure Laminate (HPL) with Particle Board Substrate (Bobrick MetroSeries).
 - 1. Toilet partitions.
 - 2. Urinal privacy screens.

1.2 RELATED SECTIONS

- A. Section 055000 - Metal Fabrications.
- B. Section 061000 - Rough Carpentry.
- C. Section 092523 - Lime Based Plastering.
- D. Section 093300 - Conductive Tiling.
- E. Section 095123 - Acoustical Tile Ceilings.
- F. Section 102813.19 - Healthcare Toilet Accessories.
- G. Section 102813.19 - Healthcare Toilet Accessories.

1.3 SUBMITTALS

- A. Submit under provisions of Section 013000 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. USA Certificate of Origin: Manufacturer shall supply with first submittal, an example of their Certificate of Origin declaring toilet compartments are wholly manufactured and assembled specifically in the United States, including city and state locations. A notarized Certificate of Origin shall be provided with closeout documents.
- D. Shop Drawings: Submit manufacturer's shop drawings for each product specified, including the following:

1. Plans, elevations, details of construction and attachment to adjacent construction.
2. Show anchorage locations and accessory items.
3. Verify dimensions with field measurements prior to final production of toilet compartments.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 10 year experience manufacturing similar products.
- B. Installer Qualifications: Minimum 2 year experience installing similar products.
- C. Single Source Requirements: To the greatest extent possible provide products from a single manufacturer.
- D. Accessibility Requirements: Comply with requirements applicable in the jurisdiction of the project, including but not limited to ADA and ICC/ANSI A117.1 requirements as applicable.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Handling: Handle materials to avoid damage.

1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.7 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.8 WARRANTY

- A. Manufacturer's Warranty (DesignerSeries and MetroSeries): Manufacturer's standard 2 year warranty for materials and workmanship.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Bobrick Washroom Equipment, Inc., which is located at: 6901 Tujunga Ave.; North Hollywood, CA 91605-6213; Tel: 818-764-1000; Fax: 818-765-2700; Email:info@bobrick.com; Web:www.bobrick.com
- B. Substitutions: The Architect will consider products of comparable manufacturers as a substitution, pending the Contractor's submission of adequate documentation of the substitution in accordance with procedures in Division 1 of the Project Manual. Documentation shall include a list of five similar projects of equivalent size where products have been installed for a minimum of two years, and manufacturer's certification that products are fabricated in the United States.

2.2 HIGH PRESSURE LAMINATE WITH PARTICLE BOARD SUBSTRATE (Bobrick MetroSeries)

- A. High Pressure Laminate Toilet Partitions:
 - 1. Design:
 - a. Standard Height.
 - 1) Door/Panel Height: 58 inches (147 cm).
 - 2) Floor Clearance: 12 inches (30 cm).
 - 2. Mounting Configuration:
 - a. Floor-mounted.
 - 1) Stile Height: 69 inches (175 cm).
 - b. Floor-mounted, overhead-braced with extruded anodized aluminum headrails, 0.065 inch (1.65 mm) thick with anti-grip profile.
 - 1) Stile Height: 83 inches (211 cm).
 - c. Ceiling-hung.
 - 1) Stile Height: 8 feet 0 inches (244 cm) or as required 10 feet 0 inches (305 cm) maximum.
- B. High Pressure Laminate Urinal Screens:
 - 1. Mounting Configuration:
 - a. Wall-hung.
 - 1) Screen Height: 48 inches (122 cm) with 12 inches (30 cm) floor clearance.
- C. Finished Thickness: 1 inch (25 mm) for stiles, doors, screens and panels.
- D. Materials: 3-ply, stiles, panels, doors, and screens.
 - 1. Cores: 45 lb (20.4 kg) density, industrial grade, resin-impregnated, particle board.
 - 2. Surfaces: High-pressure laminated plastic NEMA LDS-1985 minimum thickness 0.050 inch (1.33 mm) with matte finish.

3. Fabrication: Bonded high-pressure plastic laminate to core material with adhesive specially formulated to prevent delamination. Edges bonded prior to bonding face sheets. Splices or joints in faces or edges are not acceptable except in the case of laminate material limitations.
 4. Color: Designer White
- E. Fire Resistance:
1. National Fire Protection Association/International Building Code Interior Wall and Ceiling Finish: Class B / Uniform Building Code: Class II.
 - a. Flame Spread Index (ASTM E 84): 60 for panels and stiles.
 - b. Smoke Developed Index (ASTM E 84): 265 for panels and stiles.
- F. Stiles: Floor-anchored stiles furnished with expansion shields and threaded rods
1. Stile Leveling Device:
 - a. Standard:
 - 1) Overhead-Braced: 12 gauge (2.8 mm), 3 inches x 1-1/4 inches
 - 2) (75 x 32 mm) plated steel stile bracket factory installed to bottom of stile. Furnished with leveling bolt, shoe retainer, floor L-bracket, plastic anchor #14-16, #14 x 5/8 inches (M6.3 x 16 mm) stainless steel sheet-metal screws and #14 x 1-3/4 inches (M6.3 x 45 mm) stainless steel sheet-metal floor screws.
 - 3) Floor-Anchored: 3/8 inches x 1 inches (10 x 25 mm) steel bar, zinc-chromate plated, bolted to stile using 6 inches x 3/8 inches (152 x 10 mm) diameter carbon steel lag bolt. Furnished with 3/8 inches (10mm) diameter threaded rods, hex nuts, washers, spacer sleeve (ceiling-hung only), expansion shield and shoe retainer.
 - b. Steel Core Stile Option:
 - 1) Leveling Devices: 3/8 inch x 7/8 inch (10 mm x 22 mm) steel bar welded to 11 gauge (3 mm) steel-reinforcing core; chromate-treated and double zinc-plated; welded to sheet-steel core of stiles.
 2. Stile Shoes: One-piece, 22 gauge (0.8 mm), 18-8, Type 304 stainless steel, 4 inch (102 mm) height; tops with 90 degree return to stile. One-piece shoe capable of adapting to 3/4 inch (19 mm) or 1 inch (25 mm) stile thickness and capable of being fastened (by clip) to stiles starting at wall line.
- G. Wall Posts: Pre-drilled for door hardware, 18-8, Type 304, 16 gauge (1.6 mm) stainless steel with satin finish; 1 inch (25 mm) x 1-1/2 inches (38 mm) x 58 inches high (1473 mm).
- H. Anchors: Expansion shields and threaded rods at floor connections as applicable. Threaded rods secured to supports above ceiling as applicable. Supports above ceiling furnished and installed as Work of Section 055000 - Metal Fabrications.
- I. Hardware:
1. Compliance: Operating force of less than 5 lbs. (2.25 kg).
 2. Emergency Access: Hinges, latch allow door to be lifted over keeper from outside compartment on inswing doors.

3. Materials:
 - a. Stainless Steel
 - 1) Hinges: Pivot hinges constructed of stainless steel with satin finish.
 - 2) Door Hardware: Latches, keepers, coat hooks constructed of stainless steel with satin finish.
 - 3) Mounting Brackets: Constructed of 18-8, Type-304, heavy-gauge stainless steel with satin finish.

PART 3 - PRODUCTS

3.1 PREPARATION

- A. Prepare substrates including but not limited to blocking and supports in walls and ceilings at points of attachment using methods recommended by the manufacturer for achieving the best result for the substrates under the project conditions.
 1. Inspect areas scheduled to receive compartments for correct dimensions, plumbness of walls, and soundness of surfaces that would affect installation of mounting brackets.
 2. Verify spacing of plumbing fixtures to assure compatibility with installation of compartments.
- B. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
- C. Do not proceed with installation until substrates have been properly prepared with blocking and supports in walls and ceilings at points of attachment and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.

3.2 INSTALLATION

- A. Install products in strict compliance with manufacturer's written instructions and recommendations, including the following:
 1. Verify blocking and supports in walls and ceilings has been installed properly at points of attachment.
 2. Verify location does not interfere with door swings or use of fixtures.
 3. Use fasteners and anchors suitable for substrate and project conditions
 4. Install units rigid, straight, plumb, and level.
 5. Conceal evidence of drilling, cutting, and fitting to room finish.
 6. Test for proper operation.

3.3 ADJUSTING, CLEANING AND PROTECTION

- A. Adjust hardware for proper operation after installation. Set hinge cam on in-swinging doors to hold doors open when unlatched. Set hinge cam on out-swinging doors to hold unlatched doors in closed position.
- B. Touch-up, repair or replace damaged products.
- C. Clean exposed surfaces of compartments, hardware, and fittings.

END OF SECTION 102113

SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Public-use washroom accessories.

1.2 ACTION SUBMITTALS

A. Product data.

PART 2 - PRODUCTS

2.1 BREAKROOM/DRINKING FOUNTAIN ACCESSORIES

A. Paper Towel (Roll) Dispenser A-211:

1. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Product: Bobrick B-253 Surface Mounted Paper Towel Dispenser
2. Description: Pull-towel-actuated mechanism that permits controlled delivery of paper rolls in preset lengths.
3. Mounting: Surface mounted.
4. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin) .

B. Soap Dispenser A-211 :

1. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Product: Bobrick B-2111 ClassicSeries Surface Mounted Soap Dispenser
2. Description: Designed for manual operation and dispensing soap in liquid or lotion form.
3. Mounting: Vertically oriented, surface mounted .
4. Lockset: Tumbler type.
5. Refill Indicator: Window type.

C. Grab Bar A-211 :

1. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - a. Bobrick Washroom Equipment, Inc.
 - b. Product: Bobrick B-819298 Drinking Fountain Grab Bar 1-1/2" DIA
2. Mounting: Flanges with exposed fasteners.
3. Material: Stainless steel, 0.05 inch thick.
 - a. Finish: Smooth, ASTM A480/A480M No. 4 finish (satin).
4. Configuration and Length: As indicated on Drawings .

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install accessories in accordance with manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
 1. Remove temporary labels and protective coatings.
- B. Grab Bars: Install to comply with specified structural-performance requirements.

END OF SECTION 102800

SECTION 123216 - MANUFACTURED PLASTIC-LAMINATE-CLAD SHELVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Plastic-laminate-clad casework (shelving).
2. Casework hardware and accessories.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by the following:

1. Formica.

2.2 GENERAL REQUIREMENTS FOR CASEWORK

A. Quality Standard: Unless otherwise indicated, comply with the AWI/AWMAC/WT's "Architectural Woodwork Standards" for grades of casework indicated for construction, finishes, installation, and other requirements.

1. Grade: Premium .

B. Product Designations:

1. Drawings indicate configurations of manufactured plastic-laminate-clad casework. Refer to A-211 Interior Elevations.

2.3 PLASTIC-LAMINATED-FACED FLOATING SHELVES

A. Design: wall mounted floating shelves without visible supports.

B. Grain Direction for Wood-Grain Plastic Laminate:

1. Bottoms and Tops of Units: Horizontal (parallel to length of shelf).
2. Edge Banding: Horizontal (parallel to length of shelf).

C. Exposed Materials:

1. Plastic-Laminate Grade: HGS.
 - a. Style: Formica Laminate - Commercial, Color: 6932 Macchiato Walnut, Texture: Matte.

D. Concealed Materials:

1. MDF.

2.4 MATERIALS

- A. MDF: Medium-density fiberboard, ANSI A208.2, Grade 130 .
- B. Plastic Laminate: High-pressure decorative laminate complying with ISO 4586-3.
 1. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - a. Formica Corporation.

2.5 CASEWORK HARDWARE AND ACCESSORIES

- A. Hardware, General: Unless otherwise indicated, provide manufacturer's standard satin-finish , commercial-quality, heavy-duty hardware.
 1. Use threaded metal or plastic inserts with machine screws for fastening to particleboard except where hardware is through-bolted from back side.
- B. Frameless Concealed Hinges (European Type): ANSI/BHMA A156.9, Type B01602 , self-closing.
- C. Cabinet Pulls: Aluminum, Wire Pulls. Size: Center-to-center dimension of not less than 3-1/2 inches and a cross sectional diameter of 5/16 inch. Provide handle projections not less than 1-5/16 inches. Finish: Brushed Chrome
- D. Door and Drawer Bumpers: Self-adhering, clear silicone rubber.
- E. Drawer Slides: ANSI/BHMA A156.9, Type B05091.
- F. Adjustable Shelf Supports: Single-pin metal shelf rests complying with ANSI/BHMA A156.9, Type B04013.

2.6

2.7 HARDWARE AND ACCESSORIES

- A. Hardware, General: Unless otherwise indicated, provide manufacturer's standard satin-finish, commercial-quality, heavy-duty hardware.
 - 1. Use threaded metal or plastic inserts with machine screws for fastening to particleboard except where hardware is through-bolted from back side.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Grade: Install casework to comply with same quality standard grade as item to be installed.
- B. Install casework level, plumb, and true in line; shim as required using concealed shims. Where casework abuts other finished work, apply filler strips and scribe for accurate fit, with fasteners concealed where practical.
- C. Fasten casework to adjacent units and to masonry, framing, wood blocking, or reinforcements in walls and partitions to comply with the AWI/AWMAC/WT's "Architectural Woodwork Standards."
- D. Install hardware uniformly and precisely. Set hinges snug and flat in mortises unless otherwise indicated. Adjust and align hardware so moving parts operate freely and contact points meet accurately. Allow for final adjustment after installation.
- E. Adjust operating hardware so doors and drawers operate smoothly without warp or bind. Lubricate operating hardware as recommended by manufacturer.
- F. Clean finished surfaces, touch up as required, and remove or refinish damaged or soiled areas to match original factory finish, as approved by Architect.

END OF SECTION 123216

SECTION 123216 - MANUFACTURED CASEWORK

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Painted casework.
2. Casework hardware and accessories.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For painted casework, or equal.
- C. Samples: For casework and hardware finishes.

1.3 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of casework that fail in materials or workmanship within specified warranty period.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS FOR CASEWORK

- A. Quality Standard: Unless otherwise indicated, comply with the AWI/AWMAC/WT's "Architectural Woodwork Standards" for grades of casework indicated for construction, finishes, installation, and other requirements.
 1. Grade: Premium.
 2. Provide labels and certificates from AWI certification program indicating that casework complies with requirements of grades specified.
- B. Certified Wood: Wood products shall be certified as "FSC Pure" or "FSC Mixed Credit" according to FSC STD-01-001 and FSC STD-40-004.
- C. Product Designations: Drawings indicate sizes, configurations, and finish materials of manufactured plastic-laminate-clad casework by referencing designated manufacturer's catalog numbers. Other manufacturers' casework of similar sizes and door and drawer configurations, of

same finish materials, and complying with the Specifications may be considered. See Section 016000 "Product Requirements."

2.2 CABINETS

- A. Design: Frameless cabinet construction with the following door and drawer-front style:
 - 1. Flush overlay.
- B. Exposed Materials:
 - 1. Paint.
 - a. Colors and Patterns: To match Existing Upstairs Breakroom, Sherwin Williams, Mindful Gray, SW 7016, Semi-Gloss finish.
 - 2. Edgebanding: Match existing break room cabinetry on the second story of the San Luis Obispo City Hall building.
- C. Semiexposed Materials:
 - 1. Match existing break room cabinetry on the second story of the San Luis Obispo City Hall building.
 - 2. Unless otherwise indicated, provide specified edgebanding on all semiexposed edges.
- D. Concealed Materials:
 - 1. MDF.

2.3 MATERIALS

- A. Composite Wood Products: Products shall be made without urea formaldehyde.
- B. Composite Wood Products: Products shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- C. Maximum Moisture Content for Lumber: 7 percent for hardwood and 12 percent for softwood.
- D. Hardwood Plywood: HPVA HP-1, particleboard core except where veneer core is indicated.
- E. Softwood Plywood: DOC PS 1.
- F. Particleboard: ANSI A208.1, Grade M-2.
- G. MDF: Medium-density fiberboard, ANSI A208.2, Grade 130 .
- H. Hardboard: ANSI A135.4, Class 1 tempered.

- I. Adhesives: Do not use adhesives that contain urea formaldehyde.
- J. Adhesives: Use adhesives that meet the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

2.4 CASEWORK HARDWARE AND ACCESSORIES

- A. Hardware, General: Unless otherwise indicated, provide manufacturer's standard satin-finish , commercial-quality, heavy-duty hardware.
 - 1. Use threaded metal or plastic inserts with machine screws for fastening to particleboard except where hardware is through-bolted from back side.
- B. Frameless Concealed Hinges (European Type): ANSI/BHMA A156.9, Type B01602 , self-closing.
- C. Cabinet Pulls: Brushed Nickel Bar Pulls.
 - 1. Manufacturer: Atlas Homewares
 - 2. Style: 326-BRN Browning Pull, Finish: Brushed Nickel
 - 3. Size: 5-1-16 inch. Center-to-center dimension of not less than 3-1/2 inches and a cross sectional diameter of 5/16 inch. Provide handle projections not less than 1-5/16 inches.
- D. Door and Drawer Bumpers: Self-adhering, clear silicone rubber.
- E. Drawer Slides: ANSI/BHMA A156.9, Type B05091.
- F. Adjustable Shelf Supports: Single-pin metal shelf rests complying with ANSI/BHMA A156.9, Type B04013.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Grade: Install casework to comply with same quality standard grade as item to be installed.
- B. Install casework level, plumb, and true in line; shim as required using concealed shims. Where casework abuts other finished work, apply filler strips and scribe for accurate fit, with fasteners concealed where practical.
- C. Base Cabinets: Set cabinets straight, level, and plumb. Adjust subtops within 1/16 inch of a single plane. Align similar adjoining doors and drawers to a tolerance of 1/16 inch. Bolt adjacent cabinets together with joints flush, tight, and uniform.

- D. Wall Cabinets: Hang cabinets straight, level, and plumb. Adjust fronts and bottoms within 1/16 inch of a single plane. Fasten cabinets to hanging strips, masonry, framing, wood blocking, or reinforcements in walls and partitions. Align similar adjoining doors to a tolerance of 1/16 inch.
- E. Fasten casework to adjacent units and to masonry, framing, wood blocking, or reinforcements in walls and partitions to comply with the AWI/AWMAC/WT's "Architectural Woodwork Standards."
- F. Install hardware uniformly and precisely. Set hinges snug and flat in mortises unless otherwise indicated. Adjust and align hardware so moving parts operate freely and contact points meet accurately. Allow for final adjustment after installation.
- G. Adjust operating hardware so doors and drawers operate smoothly without warp or bind. Lubricate operating hardware as recommended by manufacturer.
- H. Clean finished surfaces, touch up as required, and remove or refinish damaged or soiled areas to match original factory finish, as approved by Architect.

END OF SECTION 123216

SECTION 123661.19 - QUARTZ AGGLOMERATE COUNTERTOPS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Quartz agglomerate countertops.

1.2 ACTION SUBMITTALS

A. Product Data: For countertop materials.

- B. Shop Drawings: For countertops. Show materials, finishes, edge and backsplash profiles, methods of joining, and cutouts for plumbing fixtures.

PART 2 - PRODUCTS

2.1 QUARTZ AGGLOMERATE COUNTERTOP MATERIALS

- A. Quartz Agglomerate: Solid sheets consisting of quartz aggregates bound together with a matrix of filled plastic resin and complying with ISFA 3-01. Refer to Finish Schedules for locations.

1. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - a. Caesarstone.
2. Colors and Patterns:
 - a. Color: 5000 London Grey

- B. Plywood: Exterior softwood plywood complying with DOC PS 1, Grade C-C Plugged, touch sanded.

2.2 FABRICATION

- A. Fabricate countertops according to quartz agglomerate manufacturer's written instructions and the AWI/AWMAC/WT's "Architectural Woodwork Standards."

1. Grade: Premium .

- B. Countertops: 3/4-inch- thick, quartz agglomerate with front edge built up with same material.

- C. Cutouts and Holes:

1. Undercounter Plumbing Fixtures: Make cutouts for fixtures in shop using template or pattern furnished by fixture manufacturer. Form cutouts to smooth, even curves.

2.3 INSTALLATION MATERIALS

- A. Adhesive: Product recommended by quartz agglomerate manufacturer.
- B. Sealant for Countertops: Comply with applicable requirements in Section 079200 "Joint Sealants."

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Fasten subtops to cabinets by screwing through subtops into cornerblocks of base cabinets. Shim as needed to align subtops in a level plane.
- B. Secure countertops to subtops with adhesive according to quartz agglomerate manufacturer's written instructions.
- C. Install backsplashes and end splashes by adhering to wall and countertops with adhesive.
- D. Install aprons to backing and countertops with adhesive.
- E. Complete cutouts not finished in shop. Mask areas of countertops adjacent to cutouts to prevent damage while cutting. Make cutouts to accurately fit items to be installed, and at right angles to finished surfaces unless beveling is required for clearance. Ease edges slightly to prevent snipping.
- F. Apply sealant to gaps at walls; comply with Section 079200 "Joint Sealants."

END OF SECTION 123661.19

SECTION 125913 - PANEL-HUNG COMPONENT SYSTEM FURNITURE

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Systems furniture.

1.2 RELATED SECTIONS

- A. Section 260500 - Common Work Results for Electrical.

1.3 SUBMITTALS

- A. Submit under provisions of Section 013000 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections, and relationship with adjacent construction.

1.4 TESTING

- A. Panels must meet or exceed the ANSI/BIFMA X5.6 Panel System tests. This test standard specifies acceptance levels to help ensure reasonable safety and performance.
 - 1. The above testing is designed to decrease the risk of employee injury.
- B. Panel wiring must meet or exceed UL 183 Manufactured Wiring Systems tests.
- C. Panels must be designed for installation in compliance with the National Electric Code (NFPA 70 - 2011).
- D. NFPA 101 compliant panels must be available in standard offering.
- E. Standard panel fabrics must meet or exceed UL 723 Surface Burning Characteristic of Building Materials tests.

- F. Standard panel fabrics must meet or exceed UL 1286 Standard for Safety of Office Furnishings tests. This standard utilizes the ASTM E 84 Tunnel Test method to simulate a sprinklered occupancy, as opposed to the alternative NFPA 265 Room Corner Test method.
- G. Panels must meet the following minimum acoustic ratings per ASTM C423 and E795 (NRC) and ASTM C413 and E90 (STC):
 - 1. Panel with Performance Tackable Acoustic Skins – NRC: .60 , STC: 16.
 - 2. Panel with Tackable Acoustic Skins – NRC: .50, STC: 7.
 - 3. Acoustic inserts shall be offered (as specials) to achieve increased acoustic properties beyond those shown in A.2.8.1 and A.2.8.2 if desired.
- H. The Manufacturer shall maintain membership on the Board of Directors of BIFMA (Business Institutional Furniture Manufacturers Association) and thus shall readily accept new and revised furniture industry standards as they are introduced.
- I. Panels shall meet or exceed ASTM E72: Strength Test of Panels for Building Construction, Section 12, Transverse Load.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Handling: Handle materials to avoid damage.

1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.7 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with GSA requirements, provide products by the following:

1. Haworth Inc.

- B. Requests for substitutions will be considered in accordance with provisions of Section 016000 - Product Requirements.

2.2 MATERIALS

- A. Systems Furniture:

1. Components:
 - a. Desks.
 - b. Shelving.
 - c. Storage.
 - d. Tack surfaces.
 - e. Wall Panels
 - f. Glazing Panels
 - g. Laminate and glass surfaces
 - h. Raceways.
 - i. Power and data outlets.

- B. Materials Chemistry:

1. Must have reduced VOC emissions by using water-based adhesives.
2. Must offer PVC-free power components to avoid potential long-term human and environmental impacts that have been associated with the manufacture and future disposal of PVC.
3. Fabrics shall be available which meet MBDC Cradle-to-Cradle Gold sustainable design certification. These fabrics contain less than 100 parts per million of any heavy metals of concern, which includes antimony, which is traditionally found in polyester fabrics.
4. Painted components must be coated with powder coat paint, which results in minimal waste, consumes less energy and requires no solvents, compared to traditional wet paint processes.

- C. Life Cycle Assessment:

1. Shall offer an MBDC Cradle-to-Cradle™ Certified workstation.
2. In lieu of disposing furniture in a landfill at the end of its useful life, the Manufacturer must provide opportunities for the Customer to recycle, resell or refurbish their used furniture.

- D. Recycled Content and Recyclability:

1. Non-dedicated frame must make it easy to disassemble and recycle panel components.
2. Frame shall be made up of at least 30% recycled content.
3. Certified panel fabrics must contain up to 100% of recycled content.
4. Packaging waste must be minimized by bundling like parts.
5. Packaging materials shall contain at least 15% recycled content.

6. Open plan workstation as defined by 444.8 BIFMA shall be constructed of up to 46% recycled content.
 - a. 13% post consumer content
 - b. 33% pre consumer content
7. Components that make up the open plan workstation defined by 444.8 BIFMA must be up to 71% recyclable at end of life.

E. Certifications:

1. Furniture must be certified to meet the emissions requirements of the California DPH "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources-2004" (CA Section 01350) and ANSI/BIFMA X7.1 "Standard for Formaldehyde and TVOC Emissions of Low-emitting Office Furniture Systems and Seating" using either the open plan or private office exposure scenarios defined in ANSI/BIFMA M7.1 "Standard Test Method for Determining VOC Emissions from Office Furniture Systems, Components, and Seating". Testing must be conducted in accordance with ANSI/BIFMA M7.1. Certification must be provided by an organization independent of the manufacturer as well as from the testing laboratory, in accordance with the requirements of ISO/IEC Guide 65 "General requirements for bodies operating product certification systems."
 - a. The above requirement is covered by SCS IndoorAdvantage™ Gold Certification for indoor air quality.
2. Product shall be at least Level® 2 Certified with the BIFMA e3 Furniture Sustainability Standards to meet or exceed the most current environmental standards in the furniture industry.

2.3 PRODUCT DESIGN FEATURES

A. Panel Frames - Vertical and Horizontal Elements

1. Dimensions (assembled):
 - a. Depth: 3"
 - b. Heights: 30"H, 42"H, 48"H, 54"H, 66"H, 78"H.
 - c. Widths: 18"W, 24"W, 30"W, 36"W, 42"W, 48"W, 60"W, 72"W.
2. Standard offerings:
 - a. Panel frame shall be made up of vertical (aka "posts" or "uprights") and horizontal elements (aka "beams") assembled easily on-site.
 - b. For optimal flexibility and reconfigurability, panels shall feature their own common vertical posts and junction blocks shall be added as needed to make adjacent panel connections at 90° or 120° corners. Junction blocks and posts shall be offered separately for future addition or reconfiguration of panels. Inline connections shall utilize a shared junction.
 - c. Connectors shall be able to connect panels of differing heights. Connector system shall allow continuation of electrical and communications wiring within a workstation and from workstation to workstation. Connectors shall be reusable.
 - d. All vertical and horizontal panel trim components offer matching finishes.
 - e. Right angle (90-degrees) connections shall not interfere with the capability to hang work surfaces and other components on any adjacent panel.

- f. Vertical element shall feature an internal seal to help block light and sound from transferring from one side of the panel to the other.
 - g. Lay-in cable routing must be accommodated in the base area and in the top cap. Horizontal cable routing must also be accommodated with other openings in the vertical elements.
 - h. Leveling glides shall adjust up to 2-3/4" to provide uniform height assurance for adjacent units on uneven floors, and the capability of easily relocating an entire run of panels by sliding over the floor without disassembly of panels and hanging components, like worksurfaces and storage.
 - i. Shall be capable of being installed on top of finished flooring without the penetration of the finished floor or the use of floor fasteners; and shall have complete flexibility for future changes without having to patch floor material. This requirement will minimize the repair and maintenance cost associated with reconfiguration.
 - j. No loose fasteners shall be required to assemble base panel frame elements. Assembly shall only require engagement of integral end clamps with a mallet.
 - k. Panels must allow up-mounted upper storage.
 - l. Connectors shall be made of steel to withstand the weight of loaded components and the stress of movement under loaded conditions.
 - m. Panel mounted components shall have an integral locking device which secures components to the panel, preventing them from being accidentally pulled or knocked off and to secure them in seismic zones.
 - n. The panel system shall support multiple fully loaded hang-on components, such as cantilevered worksurfaces and overhead bins and shelves, on either or both sides of the panel, when applied according to published application guidelines.
 - o. Accessories and appurtenances for a completely finished panel assembly shall be supplied complete with the system. Additional hardware and brackets shall not be required to install.
 - p. Multiple panels connected inline to form a spine wall (aka "service wall") shall accept attachment of return "wing" panels.
 - q. Return "wing" panels used for stability shall match or exceed the width of the worksurfaces. Worksurfaces shall be able to install on return panels without the need for counterbalancing to assure that the structural integrity of the work station will not be compromised.
 - r. Reconfiguration of all 90-degree panel applications (X, T and L) shall be as simple as replacement, addition or movement of junction connector blocks and trim pieces. Panels shall remain intact during reconfiguration due to the interchangeable and external universal nature of the connector blocks.
3. Available Options:
- a. Floor anchor brackets shall allow panel to be secured to the floor to prevent movement esp. in seismic zones.
 - b. Connection blocks, trim components and trim alignment kits shall be orderable to cover all possible panel configurations.
 - c. Grommet for horizontal bar and junctions shall be sold separately and added in the field to finish the exposed metal edges of cable pass-through openings.
4. Stacking Options:
- a. Must offer 12"H, 18"H and 24"H load-bearing stacker panels.
 - b. Stackers shall work on any panel.

- c. Stacked panel shall reach a maximum height of 90”.
- d. Must stack up to 2 tiers, with the first tier being load-bearing.
- e. Panels shall be capable of being stacked without disturbing adjacent panels.
- f. Panel heights shall be raised or lowered without disrupting the base panels or top cap lay in cabling.
- g. Panel shall accept adjoining stack on segments without removing the existing connector.

B. Panel Skins

- 1. Dimensions:
 - a. Heights: 12”H, 18”H, 24”H, 30”H, and 36”H.
 - 1) Exception: Tackable, Laminate and Wood skins also offer 42”H, 48”H and 60”H.
 - 2) Exception: Slatwall skins and glass windows are 12”H, 18”H and 24”H only.
 - 3) Exception: Tackable, Steel and Back Painted Glass skins also offer 18”W, 60”W, 72”W.
 - 4) Exception: Glass Windows also offer 60”W, 72”W, 78”W, 84”W, 90”W and 96”W (18”H and 24”H doesn’t offer beyond 72”W)
- 2. Standard Offering:
 - a. Panel must feature a wide range of skin types including:
 - 1) Fabric-covered, tackable acoustical skins
 - 2) Fabric covered, performance tackable acoustical skins
 - 3) Wood skins
 - 4) Laminate skins
 - 5) Back painted glass skins with painted metal trim border (with optional steel backer for ability to use with magnets)
 - b. Must be removable and can be repositioned in the field (not dedicated to one position).
 - c. Must be non-progressive: any skin in the panel configuration can be removed without disrupting any of the other skins.
 - d. Must offer tackable, laminate and wood skins in full panel height (monolithic).
 - e. Must allow for skin segmentation every 12”H for maximum aesthetic flexibility.
 - f. Must allow for combination of available skin heights and materials for maximum aesthetic flexibility.
 - g. All panel windows must contain real glass, and offer single pane and double pane options.
 - h. Fabric skins must have the ability to be field cut for receptacle/communication outlet openings to allow for maximum flexibility in locating openings where needed.
 - i. Must offer steel, fabric tackable, laminate and wood skins to be used in the bottom position which extend to the floor for use when no panel base trim is desired.
 - j. Skins and windows shall feature a horizontal seal on the top edge to help block light and sound leaks between segmented skins or skin and top cap.
 - k. Skins shall be replaceable in the field and can be added or removed without tools at any time to allow for access to internal power, telecommunications and data

cabling within the open panel frame. Removal of skins does not require tearing down a panel run.

- l. Skin fabric shall be factory-attached securely and continuously along the entire perimeter of a steel metal frame.
 - m. Fabric skins shall have seamless widths of fabric stretched over the entire face of the metal frame with the color of each fabric consistent throughout the installation.
3. Available Options:
- a. Warp on fabric-covered skins shall be horizontal with the option to order vertical warp.
 - b. Segmented wood skins must be available in sets to ensure correct cathedral wood grain alignment of all skins applied to a frame.

C. Panel Top Caps, Top Trims, and Vertical Trims

1. Dimensions:
 - a. Depths: May match or exceed 3" panel depths slightly.
 - b. Heights: Match all panel and stacked panel heights including change-of-height applications.
2. Standard Offering:
 - a. Top caps must install onto or remove from the panel without tools.
 - b. Vertical trims must be available for change-of-height applications.
 - c. Junction top cap for vertical element must be plastic with molded-in alignment features or come with snap-in aligners to ensure proper alignment with adjacent top caps and vertical trims.
 - d. Top caps must be steel for durability.
 - e. Must offer top caps up to 96" in length which are designed to span multiple inline panels where no seam is desired.
 - f. All vertical and horizontal panel trim components and fillers shall offer matching finishes
3. Available Options:
 - a. Vertical trims must be available in painted or wood veneer versions. Fabric wrapped vertical trims shall be available for square and oval trims.
 - b. Wood veneer versions shall have wood veneer applied with adhesive over a specially-painted steel substrate part.

D. Panel Basetrims

1. Dimensions:
 - a. Widths: Matching all panel widths.
 - b. Height: 3-3/4"H
2. Standard Offerings:
 - a. Basetrims must be steel and install to the panel base with integral hooks without the need for tools.
 - b. Basetrims must feature knockouts for both power and communication terminations. A filler must be available to close off unused openings.
 - c. Must offer base trims without knockouts where power/data access is not needed.
 - d. Base trims shall be available in any paint color to match the panel paint color.

- e. An open base trim kit shall be offered where base trims or power and data routing are not desired.

E. Power and Data

- 1. Dimensions
 - a. Powerkit lengths must match widths of available panels.
 - b. Base Power Infeeds must be available in 6 and 12 ft. lengths.
 - c. Multipurpose Power Infeeds must be available in 12 and 24 ft. lengths.
- 2. Standard Offerings:
 - a. Lay-in cable routing must be accommodated in the base area and the top of every panel.
 - b. Panels shall have vertical wire pathways that allow cables to be routed internally from the topway to either beltline or base cavity without external cable managers. The vertical wire path shall accommodate a minimum of 22 category 6 cables (each averaging .25" diameter).
 - c. Power must have the ability to be accessed in the base or every 12" vertically.
 - d. The base cavity shall be able to provide duplex receptacles and data ports access at base height.
 - e. Panel power shall be offered in three wiring schematics with either shared or separate neutrals to match the specific wiring strategy to any typical building wiring plan.
 - f. Same modular power kit must have the ability to be in any location on the panel.
 - g. Power must be UL-rated for use in furniture (UL1286) and architecture (UL183).
 - h. Cableways within the panel shall meet the TIA (Telecommunications Industry Association) standard for Category 5 and 6 cables and shall provide for a 3" bend radius (exceeding the TIA standard by 150%).
- 3. Available Options:
 - a. Standard power components must be offered to meet seismic area requirements.

F. Other Panel-Related Products

- 1. Frameless Glass Screens:
 - a. Two versions shall be offered: clip-attached and recessed.
 - b. Must be able to match a single panel width or span multiple panels inline with a single screen.
 - c. Must be field installed rigidly on top of panel with brackets and specially-prepared thin top trim included. Clip-attached screen shall offer a square trim option.
 - d. Glass screen shall be at least 3/8" thick, with polished and beveled or rounded edges to provide a friendly surface that workstation visitors can safely rest their arms on.
 - e. Glass screens shall not require a top alignment device to ensure adjacent screens maintain planar alignment.
 - f. Space between adjacent screens shall be no larger than 1/4" on clip-attached models and 1/8" on recessed models.
- 2. Sliding Door:
 - a. Dimensions: 66"H or 78"H x 38"W or 44"W.
 - b. Must be available for added privacy.

- c. Must not be dedicated to left- or right-opening unless lock is specified.
- d. Must feature integral door handle which is ADA compliant.
- e. Must offer a locking option.
- f. Door must slide along ADA compliant threshold on wheels which are adjustable for uneven floors.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

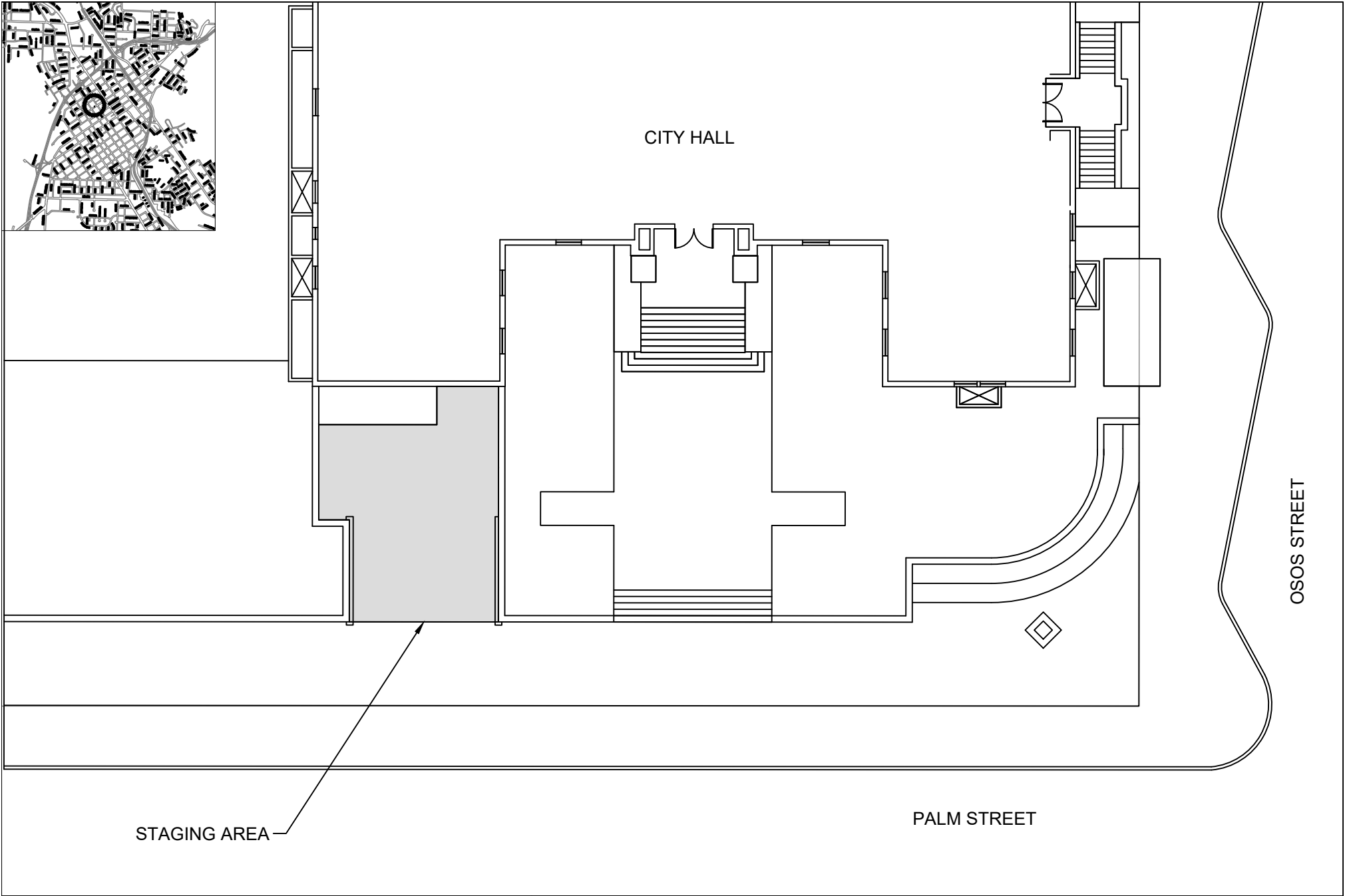
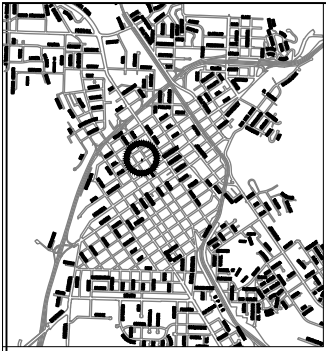
- A. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction. Test for proper operation and adjust until satisfactory results are obtained.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 125913

APPENDIX C – CITY HALL STAGING EXHIBIT



PUBLIC WORKS DEPARTMENT

919 Palm Street, San Luis Obispo, CA 93401

FINANCE AND IT REMODEL STAGING AREA

APPENDIX D – FURNITURE SCHEDULE

Appendix D – Furniture Schedule

Furniture Specifications: Contractor must buy Hayworth products as specified in the following pages

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION	
1	HAF	29	JPMP-24-SJ	X Series, Pedestal, Mobile, P/B/F, 24"D, Ptd Drw Frt, Stl Lkrl, J Pull, Cstr, Stl Top
	WS-1 CITY HALL		,TR-E ,LR-BP	Smoke, GRADE A Chrome, GRADE A
2	HCC	29	LSET-1	HW, Lock Set, Keyed Alike, Lock Plug And Key, Qty Of 1
	WS-1 CITY HALL		,LX-BP	Chrome, GRADE A
3	HHK	23	WURA-2442-LJSA	Worksurface, Rect, 24Dx42W, Lam, Edgeband, Std Core, Notched
	WS-1 CITY HALL		,H-3E ,HP-3E	Smoke GRD A Smoke GRD A
4	HHK	1	WURA-2448-LJSA	Worksurface, Rect, 24Dx48W, Lam, Edgeband, Std Core, Notched
	WS-1 CITY HALL		,H-3E ,HP-3E	Smoke GRD A Smoke GRD A
5	HHK	7	WURA-2454-LJSA	Worksurface, Rect, 24Dx54W, Lam, Edgeband, Std Core, Notched
	WS-1 CITY HALL		,H-3E ,HP-3E	Smoke GRD A Smoke GRD A
6	HHK	1	WURA-2460-LJSA	Worksurface, Rect, 24Dx60W, Lam, Edgeband, Std Core, Notched
	WS-1 CITY HALL		,H-3E ,HP-3E	Smoke GRD A Smoke GRD A
7	HHK	29	WURA-2870-LJSC	Worksurface, Rect, 28Dx70W, Lam, Edgeband, Std Core, No Cbl Mgt,
	WS-1 CITY HALL		,H-3E ,HP-3E	Smoke GRD A Smoke GRD A

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION		
8	HHK	15	ZZBD-1600-PP	Compose, Cntlvr Brkt,16In.D,Bh	
		WS-1		CITY HALL	
9	HHK	1	ZZBD-1600-PR	Compose, Cntlvr Brkt,16In.D,RH	
		WS-1		CITY HALL	
10	HHK	24	ZZFS-1200-LNEJ	Worksurface Support Panel, Compose, 12In.W,Lam,3mm Edgeband Top	
		WS-1	,H-3E	Smoke, GRADE A	
		CITY HALL	,HP-3E	Smoke, GRADE A	
11	HHN	12	EUER-153P-GS0S	Triplex Receptacle,15 Amp, 332, CM	
		WS-1	,TR-E	Smoke, GRADE A	
		CITY HALL			
12	HHN	10	VUZF-6636-XLNZ	Compose, Sliding Door, Panel Mounted, With Track Translucent Glass, 66H X 36W,Left Hd,Non Locking	
		WS-1	,TR-E	Smoke, GRADE A	
		CITY HALL			
13	HHN	10	VUZF-6636-XRNZ	Compose, Sliding Door, Panel Mounted, With Track Translucent Glass, 66H X 36W,Right Hd,Non Locking	
		WS-1	,TR-E	Smoke, GRADE A	
		CITY HALL			
14	HHN	156	VZAD-0000-R	Elec Comp, Data Blank Cover	
		WS-1	,TR-E	Smoke, GRADE A	
		CITY HALL			
15	HHN	9	VZAL-5800	Compose, Vertical Light Block, 58in	
		WS-1		CITY HALL	
16	HHN	75	VZAR-0000	Elec Comp, Receptacle Blank Cover, Compose/Premise	
		WS-1	,TR-E	Smoke, GRADE A	
		CITY HALL			

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION
17	HHN	1	VZCC-0030-A Compose,Top Trim 30In.W,Alumn
		WS-1 CITY HALL	,TR-E Smoke, GRADE A
18	HHN	23	VZCC-0036-A Compose,Top Trim 36In.W,Alumn
		WS-1 CITY HALL	,TR-E Smoke, GRADE A
19	HHN	1	VZCC-0042-A Compose,Top Trim 42In.W,Alumn
		WS-1 CITY HALL	,TR-E Smoke, GRADE A
20	HHN	2	VZCC-0054-A Compose,Top Trim 54In.W,Alumn
		WS-1 CITY HALL	,TR-E Smoke, GRADE A
21	HHN	51	VZCC-0072-A Compose,Top Trim 72In.W,Alumn
		WS-1 CITY HALL	,TR-E Smoke, GRADE A
22	HHN	6	VZCC-0084-A COMPOSE,TOP TRIM 84IN.W,Alumn
		WS-1 CITY HALL	,TR-E Smoke, GRADE A
23	HHN	1	VZCC-0090-A Compose,Top Trim 90In.W,Alumn
		WS-1 CITY HALL	,TR-E Smoke, GRADE A
24	HHN	10	VZCE-4200-A Compose,Panel Trim,End-Of-Run 42In.H, Alum
		WS-1 CITY HALL	,TR-E Smoke, GRADE A
25	HHN	8	VZCE-5800-A Compose,Panel Trim,End-Of-Run 58In.H, Alum
		WS-1 CITY HALL	,TR-E Smoke, GRADE A

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION		
26	HHN	24	VZCE-6600-A		
			Compose,Panel Trim,End-Of-Run 66In.H, Alum		
		WS-1	,TR-E	Smoke, GRADE A	
		CITY HALL			
27	HHN	3	VZCL-4200-A		
			Compose,Connector Trim,Corner,2-Way 42In.H, Alum		
		WS-1	,TR-E	Smoke, GRADE A	
		CITY HALL	,TR-E	Smoke, GRADE A	
28	HHN	7	VZCL-5800-A		
			Compose,Connector Trim,Corner,2-Way 58In.H, Alum		
		WS-1	,TR-E	Smoke, GRADE A	
		CITY HALL	,TR-E	Smoke, GRADE A	
29	HHN	26	VZCL-6600-A		
			Compose,Connector Trim,Corner,2-Way 66In.H, Alum		
		WS-1	,TR-E	Smoke, GRADE A	
		CITY HALL	,TR-E	Smoke, GRADE A	
30	HHN	47	VZCS-0000		
			Compose,Corner Block Assembly,90Deg		
		WS-1			
		CITY HALL			
31	HHN	1	VZCT-4200-A		
			Compose,Connector Trim,Corner,3-Way 42In.H, Alum		
		WS-1	,TR-E	Smoke, GRADE A	
		CITY HALL	,TR-E	Smoke, GRADE A	
32	HHN	12	VZCT-6600-A		
			Compose,Connector Trim,Corner,3-Way 66In.H, Alum		
		WS-1	,TR-E	Smoke, GRADE A	
		CITY HALL	,TR-E	Smoke, GRADE A	
33	HHN	1	VZCW-0000-P		
			Compose,Wall Mount,Fits All Heights		
		WS-1			
		CITY HALL			
34	HHN	3	VZCX-6600-A		
			Compose,Connector Trim,Corner,4-Way 66In.H, Alum		
		WS-1	,TR-E	Smoke, GRADE A	
		CITY HALL			

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION		
35	HHN	11	VZEB-0000-3	Compose,Base Feed Module,3Cir,332	
			WS-1		
			CITY HALL		
36	HHN	4	VZEF-0R0S	Compose,Flex Connector,Straight Span,3-Circuit	
			WS-1		
			CITY HALL		
37	HHN	31	VZFF-4236-NNBBNR	Compose, Frm,42Hx36W,Bs NoPwr,BsTrm/BsTrm,No Blt Pwr,Std	
			WS-1	,TR-E	Smoke, GRADE A
			CITY HALL	,TR-E	Smoke, GRADE A
				,TR-E	Smoke, GRADE A
38	HHN	1	VZFF-4242-NNBBNR	Compose, Frm,42Hx42W,Bs NoPwr,BsTrm/BsTrm,No Blt Pwr,Std	
			WS-1	,TR-E	Smoke, GRADE A
			CITY HALL	,TR-E	Smoke, GRADE A
				,TR-E	Smoke, GRADE A
39	HHN	1	VZFF-4260-NNBBNR	Compose, Frm,42Hx60W,Bs NoPwr,BsTrm/BsTrm,No Blt Pwr,Std	
			WS-1	,TR-E	Smoke, GRADE A
			CITY HALL	,TR-E	Smoke, GRADE A
				,TR-E	Smoke, GRADE A
40	HHN	23	VZFF-4272-N3HBNR	Compose Frm,42Hx72W,Bs 3CIR,Bs Cvhl/BsTrm,No Blt Pwr,No UndrWS Pwr,Std	
			WS-1	,TR-E	Smoke, GRADE A
			CITY HALL	,TR-E	Smoke, GRADE A
				,TR-E	Smoke, GRADE A
41	HHN	1	VZFF-4272-N3HHNR	Compose Frm,42Hx72W,Bs 3CIR,Bs Cvhl/Cvhl,No Blt Pwr,No UndrWS Pwr,Std	
			WS-1	,TR-E	Smoke, GRADE A
			CITY HALL	,TR-E	Smoke, GRADE A
				,TR-E	Smoke, GRADE A
42	HHN	2	VZFF-4272-NNBBNR	Compose Frm,42Hx72W,Bs NoPwr,BsTrm/BsTrm,No Blt Pwr,No UndrWS Pwr,Std	
			WS-1	,TR-E	Smoke, GRADE A
			CITY HALL	,TR-E	Smoke, GRADE A
				,TR-E	Smoke, GRADE A

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION		
43	HHN	1	VZFF-4272-NNHBNR	Compose Frm,42Hx72W,Bs NoPwr,Bs Cvhl/BsTrm,No Blt Pwr,No UndrWS Pwr,Std	
	WS-1		,TR-E	Smoke, GRADE A	
	CITY HALL		,TR-E	Smoke, GRADE A	
			,TR-E	Smoke, GRADE A	
44	HHN	7	VZFF-5830-N3BBNR	Compose, Frm,58Hx30W,Bs 3CIR,BsTrm/BsTrm,No Blt Pwr,Std	
	WS-1		,TR-E	Smoke, GRADE A	
	CITY HALL		,TR-E	Smoke, GRADE A	
			,TR-E	Smoke, GRADE A	
45	HHN	5	VZFF-5854-N3HBNR	Compose, Frm,58Hx54W,Bs 3CIR,Bs Cvhl/BsTrm,No Blt Pwr,Std	
	WS-1		,TR-E	Smoke, GRADE A	
	CITY HALL		,TR-E	Smoke, GRADE A	
			,TR-E	Smoke, GRADE A	
46	HHN	3	VZFF-5854-N3HHNR	Compose, Frm,58Hx54W,Bs 3CIR,Bs Cvhl/Cvhl,No Blt Pwr,Std	
	WS-1		,TR-E	Smoke, GRADE A	
	CITY HALL		,TR-E	Smoke, GRADE A	
			,TR-E	Smoke, GRADE A	
47	HHN	1	VZFF-5860-N3HBNR	Compose, Frm,58Hx60W,Bs 3CIR,Bs Cvhl/BsTrm,No Blt Pwr,Std	
	WS-1		,TR-E	Smoke, GRADE A	
	CITY HALL		,TR-E	Smoke, GRADE A	
			,TR-E	Smoke, GRADE A	
48	HHN	2	VZFF-5872-N3HHNR	Compose Frm,58Hx72W,Bs 3CIR,Bs Cvhl/Cvhl,No Blt Pwr,No UndrWS Pwr,Std	
	WS-1		,TR-E	Smoke, GRADE A	
	CITY HALL		,TR-E	Smoke, GRADE A	
			,TR-E	Smoke, GRADE A	
49	HHN	1	VZFF-6630-N3HHNR	Compose, Frm,66Hx30W,Bs 3CIR,Bs Cvhl/Cvhl,No Blt Pwr,Std	
	WS-1		,TR-E	Smoke, GRADE A	
	CITY HALL		,TR-E	Smoke, GRADE A	
			,TR-E	Smoke, GRADE A	
50	HHN	1	VZFF-6636-NNBBNR	Compose, Frm,66Hx36W,Bs NoPwr,BsTrm/BsTrm,No Blt Pwr,Std	
	WS-1		,TR-E	Smoke, GRADE A	
	CITY HALL		,TR-E	Smoke, GRADE A	
			,TR-E	Smoke, GRADE A	

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION
51	HHN	10	VZFF-6672-N3HBNR Compose Frm,66Hx72W,Bs 3CIR,Bs Cvhl/BsTrm,No Blt Pwr,No UndrWS Pwr,Std WS-1 ,TR-E Smoke, GRADE A CITY HALL ,TR-E Smoke, GRADE A ,TR-E Smoke, GRADE A
52	HHN	6	VZFF-6672-N3HHNR Compose Frm,66Hx72W,Bs 3CIR,Bs Cvhl/Cvhl,No Blt Pwr,No UndrWS Pwr,Std WS-1 ,TR-E Smoke, GRADE A CITY HALL ,TR-E Smoke, GRADE A ,TR-E Smoke, GRADE A
53	HHN	2	VZFF-6672-NNBBNR Compose Frm,66Hx72W,Bs NoPwr,BsTrm/BsTrm,No Blt Pwr,No UndrWS Pwr,Std WS-1 ,TR-E Smoke, GRADE A CITY HALL ,TR-E Smoke, GRADE A ,TR-E Smoke, GRADE A
54	HHN	10	VZGC-0000 Compose,Clip,End-Of-Run,Frameless Glass WS-1 CITY HALL
55	HHN	18	VZGE-0000-A Compose,Bottom Rail End Cap,Frameless Topper, Alum WS-1 ,TR-E Smoke, GRADE A CITY HALL
56	HHN	9	VZGK-1636-AS4R Compose,Kit,Frameless,16"H X36"W,Alum,Standard,1/4" Glass,Radius WS-1 ,TR-E Smoke GRD A CITY HALL ,1G-E21 Satin Etch Tempered - 6mm GRD C
57	HHN	1	VZGK-1660-AS4R Compose,Kit,Frameless,16"H X60"W,Alum,Standard,1/4" Glass,Radius WS-1 ,TR-E Smoke GRD A CITY HALL ,1G-E21 Satin Etch Tempered - 6mm GRD C
58	HHN	2	VZGK-1672-AS4R Compose,Kit,Frameless,16"H X72"W,Alum,Standard,1/4" Glass,Radius WS-1 ,TR-E Smoke GRD A CITY HALL ,1G-E21 Satin Etch Tempered - 6mm GRD C
59	HHN	20	VZGS-2436-1 Compose,Glass Stack 24In.H X 36In.W WS-1 ,TR-E Smoke, GRADE A CITY HALL (1G_E21) Satin Etch Tempered - 6mm ,1G-E21 Satin Etch Tempered - 6mm, GRADE C

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION
60	HHN	1	VZGS-2442-1 Compose,Glass Stack 24In.H X 42In.W
	WS-1 CITY HALL	,TR-E (1G_E21) ,1G-E21	Smoke, GRADE A Satin Etch Tempered - 6mm Satin Etch Tempered - 6mm, GRADE C
61	HHN	25	VZGS-2472-1 Compose,Glass Stack 24In.H X 72In.W
	WS-1 CITY HALL	,TR-E (1G_E21) ,1G-E21	Smoke, GRADE A Satin Etch Tempered - 6mm Satin Etch Tempered - 6mm, GRADE C
62	HHN	66	VZTI-3236-FNN Compose,Single Tile,32In.HX36In.W,Fabric/Tackable,Std Core,No Tech
	WS-1 CITY HALL	33_CAMP_RR {Railroad} Camp ,RR-309 {Railroad} Camp - Cot (RR),	GRADE B
63	HHN	2	VZTI-3242-FNN Compose,Single Tile,32In.HX42In.W,Fabric/Tackable,Std Core,No Tech
	WS-1 CITY HALL	33_CAMP_RR {Railroad} Camp ,RR-309 {Railroad} Camp - Cot (RR),	GRADE B
64	HHN	2	VZTI-3260-FNN Compose,Single Tile,32In.HX60In.W,Fabric/Tackable,Std Core,No Tech
	WS-1 CITY HALL	33_CAMP_RR {Railroad} Camp ,RR-309 {Railroad} Camp - Cot (RR),	GRADE B
65	HHN	54	VZTI-3272-FNN Compose,Single Tile,32In.HX72In.W,Fabric/Tackable,Std Core,No Tech
	WS-1 CITY HALL	33_CAMP_RR {Railroad} Camp ,RR-309 {Railroad} Camp - Cot (RR),	GRADE B
66	HHN	16	VZTI-4830-FNN Compose,Single Tile,48In.HX30In.W,Fabric/Tackable,Std Core,No Tech
	WS-1 CITY HALL	33_CAMP_RR {Railroad} Camp ,RR-309 {Railroad} Camp - Cot (RR),	GRADE B
67	HHN	16	VZTI-4854-FNC Compose,Single Tile,48In.HX54In.W,Fabric/Tackable,Std Core,No Tech
	WS-1 CITY HALL	33_CAMP_RR {Railroad} Camp ,RR-309 {Railroad} Camp - Cot (RR),	GRADE B
68	HHN	2	VZTI-4860-FNC Compose,Single Tile,48In.HX60In.W,Fabric/Tackable,Std Core,No Tech
	WS-1 CITY HALL	33_CAMP_RR {Railroad} Camp ,RR-309 {Railroad} Camp - Cot (RR),	GRADE B

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION
69	HHN	2	VZTI-5630-FNN Compose,Single Tile,56In.HX30In.W,Fabric/Tackable,Std Core,No Tech
	WS-1 CITY HALL	33_CAMP_RR {Railroad} Camp ,RR-309 {Railroad} Camp - Cot (RR), GRADE B	
70	HHN	2	VZTI-5636-FNC Compose,Single Tile,56In.HX36In.W,Fabric/Tackable,Std Core,No Tech
	WS-1 CITY HALL	33_CAMP_RR {Railroad} Camp ,RR-309 {Railroad} Camp - Cot (RR), GRADE B	
71	HHN	36	VZTI-5672-FNC Compose,Single Tile,56In.HX72In.W,Fabric/Tackable,Std Core,No Tech
	WS-1 CITY HALL	33_CAMP_RR {Railroad} Camp ,RR-309 {Railroad} Camp - Cot (RR), GRADE B	
72	HHN	2	VZVE-1600-A Compose,Panel Trim,Variable,End-Of-Run 16In.H, Alum
	WS-1 CITY HALL	,TR-E Smoke, GRADE A	
73	HHN	6	VZVT-1600-A Compose,Panel Trim,Variable,3-Way 16In.H, Alum
	WS-1 CITY HALL	,TR-E Smoke, GRADE A	
74	HHN	8	VZZP-6600-P Compose,Filler Post,Slider Door 66In H, Alumn
	WS-1 CITY HALL	,TR-E Smoke, GRADE A	
75	SPC	12	2206-4905 Sliding Door, Extended Glide Bracket, Compose, Svc
	WS-1 CITY HALL		
76	SPC	24	6221-0605 Casegoods, Gusset Hardware Kit, Svc
	WS-1 CITY HALL	,TR-E Smoke GRADE A	
77	HAF	2	JPMP-24-SJ X Series,Pedestal,Mobile,P/B/F,24"D,PtdDrwFrt, Stl Lkrl,J Pull,Cstr,Stl Top
	WS-2 CITY HALL	,TR-E Smoke, GRADE A ,LR-BP Chrome, GRADE A	

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION	
78	HCC	2	LSET-1	HW,Lock Set, Keyed Alike,Lock Plug And Key, Qty Of 1
		WS-2	,LX-BP	Chrome, GRADE A
		CITY HALL		
79	HHK	4	TS00-5J4R	Worksurface, Rect,28Dx64W,Lam,Edgeband,Std Core,No Cbl Mgt,SPC
		WS-2	,H-3E	Smoke GRD A
		CITY HALL	,HP-3E	Smoke GRD A
80	HHM	2	UFXS-1360	Masters Series,Modesty Panel,Fab,13"Hx60"W
		WS-2	(33)	Camp
		CITY HALL	,33-CT	Camp - Cot, GRADE B
81	HHN	2	VZAL-4200	Compose, Vertical Light Block, 42in
		WS-2		
		CITY HALL		
82	HHN	2	VZCC-0066-A	Compose,Top Trim 66In.W,Alumn
		WS-2	,TR-E	Smoke, GRADE A
		CITY HALL		
83	HHN	1	VZCC-0102-A	Compose,Top Trim 102In.W,Alumn
		WS-2	,TR-E	Smoke, GRADE A
		CITY HALL		
84	HHN	7	VZCT-5800-A	Compose,Connector Trim,Corner,3-Way 58In.H, Alum
		WS-2	,TR-E	Smoke, GRADE A
		CITY HALL	,TR-E	Smoke, GRADE A
85	HHN	2	VZFF-4230-NNBBNR	Compose, Frm,42Hx30W,Bs NoPwr,BsTrm/BsTrm,No Blt Pwr,Std
		WS-2	,TR-E	Smoke, GRADE A
		CITY HALL	,TR-E	Smoke, GRADE A
			,TR-E	Smoke, GRADE A
86	HHN	2	VZFF-4236-N3HBNR	Compose, Frm,42Hx36W,Bs 3CIR,Bs Cvhl/BsTrm,No Blt Pwr,Std
		WS-2	,TR-E	Smoke, GRADE A
		CITY HALL	,TR-E	Smoke, GRADE A
			,TR-E	Smoke, GRADE A

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION		
87	HHN	1	VZFF-5830-N3HHNR	Compose, Frm,58Hx30W,Bs 3CIR,Bs Cvhl/Cvhl,No Blt Pwr,Std	
	WS-2		,TR-E	Smoke, GRADE A	
	CITY HALL		,TR-E	Smoke, GRADE A	
			,TR-E	Smoke, GRADE A	
88	HHN	2	VZGS-1636-1	Compose,Glass Stack 16In.H X 36In.W	
	WS-2		,TR-E	Smoke, GRADE A	
	CITY HALL		(1G_E23)	Satin Etch Tempered - 3mm	
			,1G-E23	Satin Etch Tempered - 3mm, GRADE C	
89	HHN	2	VZGS-1666-1	Compose,Glass Stack 16In.H X 66In.W	
	WS-2		,TR-E	Smoke, GRADE A	
	CITY HALL		(1G_E23)	Satin Etch Tempered - 3mm	
			,1G-E23	Satin Etch Tempered - 3mm, GRADE C	
90	HHN	4	VZTI-3230-FNN	Compose,Single Tile,32In.HX30In.W,Fabric/Tackable,Std Core,No Tech	
	WS-2	33	CAMP_RR {Railroad} Camp		
	CITY HALL		,RR-309 {Railroad} Camp - Cot (RR),	GRADE B	
91	HAF	2	JPMP-24-SJ	X Series,Pedestal,Mobile,P/B/F,24"D,PtdDrwFrt, Stl Lkrl,J Pull,Cstr,Std Top	
	WS-3		,TR-E	Smoke, GRADE A	
	CITY HALL		,LR-BP	Chrome, GRADE A	
92	HCC	2	LSET-1	HW,Lock Set, Keyed Alike,Lock Plug And Key, Qty Of 1	
	WS-3		,LX-BP	Chrome, GRADE A	
	CITY HALL				
93	HHK	1	TS00-5J4R	Worksurface, Rect,28Dx64W,Lam,Edgeband,Std Core,No Cbl Mgt,SPC	
	WS-3		,H-3E	Smoke GRD A	
	CITY HALL		,HP-3E	Smoke GRD A	
94	HHK	2	WURA-2870-LJSC	Worksurface, Rect,28Dx70W,Lam,Edgeband,Std Core,No Cbl Mgt,	
	WS-3		,H-3E	Smoke GRD A	
	CITY HALL		,HP-3E	Smoke GRD A	
95	HHK	1	WURA-3054-LJSA	Worksurface, Rect,30Dx54W,Lam,Edgeband,Std Core,Notched	
	WS-3		,H-3E	Smoke GRD A	
	CITY HALL		,HP-3E	Smoke GRD A	

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION	
96	HHM	1	UFXS-1360	Masters Series,Modesty Panel,Fab,13"Hx60"W
	WS-3 CITY HALL	(33) ,33-CT	Camp Camp - Cot, GRADE B	
97	HHN	1	VZAL-3400	Compose, Vertical Light Block, 34in
	WS-3 CITY HALL			
98	HHN	1	VZCC-0060-A	Compose,Top Trim 60In.W,Alumn
	WS-3 CITY HALL	,TR-E	Smoke, GRADE A	
99	HHN	1	VZCE-3400-A	Compose,Panel Trim,End-Of-Run 34In.H, Alum
	WS-3 CITY HALL	,TR-E	Smoke, GRADE A	
100	HHN	1	VZCL-3400-A	Compose,Connector Trim,Corner,2-Way 34In.H, Alum
	WS-3 CITY HALL	,TR-E ,TR-E	Smoke, GRADE A Smoke, GRADE A	
101	HHN	1	VZFF-3460-N3HBNR	Compose, Frm,34Hx60W,Bs 3CIR,Bs Cvhl/BsTrm,No Blt Pwr,Std
	WS-3 CITY HALL	,TR-E ,TR-E ,TR-E	Smoke, GRADE A Smoke, GRADE A Smoke, GRADE A	
102	HHN	1	VZFF-3472-N3HBNR	Compose Frm,34Hx72W,Bs 3CIR,Bs Cvhl/BsTrm,No Blt Pwr,No UndrWS Pwr,Std
	WS-3 CITY HALL	,TR-E ,TR-E ,TR-E	Smoke, GRADE A Smoke, GRADE A Smoke, GRADE A	
103	HHN	6	VZFF-5872-N3HBNR	Compose Frm,58Hx72W,Bs 3CIR,Bs Cvhl/BsTrm,No Blt Pwr,No UndrWS Pwr,Std
	WS-3 CITY HALL	,TR-E ,TR-E ,TR-E	Smoke, GRADE A Smoke, GRADE A Smoke, GRADE A	
104	HHN	2	VZTI-2460-FNN	Compose,Single Tile,24In.HX60In.W,Fabric/Tackable,Std Core,No Tech
	WS-3 CITY HALL	33_CAMP_RR {Railroad} ,RR-309	Camp {Railroad} Camp - Cot (RR), GRADE B	

ITEM	MFR	QTY	PRODUCT NUMBER/DESCRIPTION
105	HHN	2	VZTI-2472-FNN Compose,Single Tile,24In.HX72In.W,Fabric/Tackable,Std Core,No Tech
	WS-3 CITY HALL	33_CAMP_RR {Railroad} Camp ,RR-309 {Railroad} Camp - Cot (RR), GRADE B	
106	HHN	16	VZTI-4872-FNC Compose,Single Tile,48In.HX72In.W,Fabric/Tackable,Std Core,No Tech
	WS-3 CITY HALL	33_CAMP_RR {Railroad} Camp ,RR-309 {Railroad} Camp - Cot (RR), GRADE B	
107	HHN	1	VZVE-2400-A Compose,Panel Trim,Variable,End-Of-Run 24In.H, Alum
	WS-3 CITY HALL	,TR-E Smoke, GRADE A	
108	ESI	3	2VT-LX-C48-30 Victory Series Electric Table Base w/ Adjustable Cross Channel (42.5"- 71.5") w/30" C-Feet, Quick-Connect Columns
	OPTIONAL CITY HALL	SLV Silver Finish	

APPENDIX E – ASBESTOS TESTING REPORT



Asbestos Inspections of SLO

www.sloasbestos.com

ASBESTOS SURVEY REPORT



990 Palm Street

Finance and IT Department Office

San Luis Obispo, CA 93401

March 16, 2024

Prepared by:

Mike Bruffey
Asbestos Inspections of SLO
9517 Carmel Road
Atascadero, CA 93422
Phone: (805) 235-0582

Prepared for:

City of San Luis Obispo
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March 16, 2024

Rebecca Cox
Business Analyst
City of San Luis Obispo
990 Palm Street
San Luis Obispo, CA 93401
Phone: (805) 781-7003
Email: rcox@slocity.org

**Re: Asbestos Survey Report Summary
Finance and IT Department Office
990 Palm Street, San Luis Obispo**

I have completed the requested asbestos sampling survey in the Finance and IT Department Office located at 990 Palm Street in San Luis Obispo, CA prior to an office remodel project. This structure was built in approximately the 1940's and has gone through remodeling projects over the years. This space is divided into at least 20 offices, conference rooms, kitchen area and a warehouse. The interior walls known as speed walls, are constructed of drywall and joint compound and most will be removed. The floors were covered with carpeting over concrete. This survey included two restrooms located across the hallway from the project location and the only samples collected in each was plaster.

This survey, conducted on March 7, 2024, involved sampling, cataloging, and analyzing specific suspect materials to test for the presence of asbestos. Of the 19 samples collected and sent to the lab for analysis, all were "**none detected**" for asbestos.

AISLO appreciates the opportunity to perform these services for you and look forward to working with you on future projects. If you have any questions or comments regarding the information contained in this report or if I can be of further assistance, please contact me by phone or email.

Sincerely,

Mike Bruffey
Consultant

Asbestos Inspections of SLO - AISLO

CA Certified Asbestos Consultant #19-6499 | CDPH Certified Lead Inspector Assessor

9517 Carmel Road, Atascadero, CA 93422 – (805) 235-0582 – bruffey@att.net

PURPOSE AND SCOPE OF SERVICES

This survey and inspection involved collecting bulk samples of suspect materials from the project area, and sending those samples to a NVLAP laboratory to analyze for the presence of asbestos. The following is a detailed description of the work performed at this location.

1. Visual inspection of the entire area for materials that will be disturbed for the following: Category I non-friable ACM, Category II non-friable ACM, and Regulated Asbestos Containing Materials (RACM). Accessible materials were visually inspected and sampled using the methods presented in the Federal AHERA regulations (40 CFR, Part 763). AHERA inspection methodology is required to be used for inspections of K-12 schools and is generally accepted as the industry standard for all ACM inspections regardless of structure or facility type.
2. For each sample, the following information was documented:
 - a) Sample Location
 - b) Sample Description
 - c) Friability
 - d) Condition of Material
 - e) Potential for Disturbance
3. Submission of samples to an EPA accredited lab for analysis that provides a report containing:
 - a) Sample identification number (AISLO)
 - b) Laboratory sample identification number
 - c) Analytical technique
 - d) Quality control procedures
 - e) Type and percentage of asbestos (if any) in each material
4. Analyze the laboratory sample results and produce a comprehensive written report that includes:
 - Applicable Definitions
 - Summary of Lab Results
 - Asbestos Containing Building Materials
 - Conclusions and Recommendations
 - Limitations and Disclaimers
 - Sample Location Diagram (if required or requested)
 - Bulk Asbestos Analysis – Laboratory Reports
 - Analysis Request Form - Chain of Custody
 - Credentials – Inspector

Materials visibly identified as non-asbestos (glass, wood, plastic, and metal) were not sampled.

APPLICABLE ASBESTOS DEFINITIONS

Asbestos – Asbestos is a group of six naturally occurring fibrous minerals composed of thin, needle-like fibers. They include chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite. Exposure to asbestos may cause several cancers and diseases, including mesothelioma and asbestosis.

Asbestos Containing Material (ACM) – any material containing more than one percent (1%) asbestos.

ACM Conditions – Good (intact), **Fair** (Damaged), and **Poor** (Significantly Damaged)

Asbestos Containing Construction Material (ACCM) - any manufactured construction material which contains **more than 1/10th of 1% asbestos (.1%)** by weight.

Asbestos Related Work - The activity, by disturbing asbestos-containing construction materials (ACCM), may release asbestos fibers into the air and is not related to its manufacture, the mining or excavation of asbestos-bearing ore or materials

Category I Non-Friable ACM – asbestos containing packings, gaskets, resilient floor covering, Galbestos, and asphalt roofing products containing more than 1% asbestos.

Category II Non-Friable ACM – any material that is not Cat I that contains more than 1% asbestos. Generally cementitious in nature such as stucco, transite, etc.

Friable ACM – any material containing more than 1% asbestos and can be crumbled, pulverized, or reduced to powder/dust by applying hand pressure.

NESHAPS – National Emission Standards for Hazardous Air Pollutants – EPA regulation 40 CFR subpart M, Part 61

Regulated Asbestos Containing Material (RACM) – (a) Friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

SUMMARY OF LAB RESULTS - ASBESTOS

Sample#	Location or Room #	Material Description	Asbestos Present	Type of Asbestos	% Asbestos	Quantity	Condition	NESHAPS Category
1	Men's Restroom	Beige Plaster	NO	NA	NA	NA	NA	NA
2	Men's Restroom	White Plaster	NO	NA	NA	NA	NA	NA
3	Women's Restroom	White Plaster	NO	NA	NA	NA	NA	NA
4	Women's Restroom	Beige Plaster	NO	NA	NA	NA	NA	NA
5	Warehouse	Sheet Floor/Gray L/Tan Mastic	NO	NA	NA	NA	NA	NA
6	Kitchen Wall	Drywall	NO	NA	NA	NA	NA	NA
7	IT Office 12	Drywall/Joint Compound	NO	NA	NA	NA	NA	NA
8	By Copy Mach	Drywall	NO	NA	NA	NA	NA	NA
9	Finance Dept	Drywall	NO	NA	NA	NA	NA	NA
10	Entry Doors	Drywall	NO	NA	NA	NA	NA	NA
11	Storage 13	Drywall/Joint Compound	NO	NA	NA	NA	NA	NA
12	Office 220	Drywall	NO	NA	NA	NA	NA	NA
13	IT Office 11	Drywall	NO	NA	NA	NA	NA	NA
14	(N) Hall	Drywall	NO	NA	NA	NA	NA	NA
15	(N) Hall	Drywall/Joint Compound	NO	NA	NA	NA	NA	NA
16	(N) Hall	Drywall	NO	NA	NA	NA	NA	NA
17	F Dir. Wall	Drywall	NO	NA	NA	NA	NA	NA
18	Entry Hallway	Brown Fibrous/Beige Mastic	NO	NA	NA	NA	NA	NA
19	Entry Hallway	Drywall/Joint Compound	NO	NA	NA	NA	NA	NA

MATERIALS THAT CONTAIN ASBESTOS

NONE

MATERIALS THAT *DO NOT* CONTAIN ASBESTOS BY LABORATORY ANALYSIS

White joint compound

White drywall

Brown fibrous wall material/beige mastic

White and beige plaster in the restrooms

Gray sheet flooring, gray leveler and tan mastic in the warehouse

ASBESTOS CONTAINING MATERIALS

Suspect asbestos containing materials (ACM's) were collected from the Finance/IT Department Office for the purpose of identifying materials that may contain asbestos and will be removed in an office remodel project. A total of nineteen (19) samples were collected from the walls, ceiling, and floor, documented, and submitted to LA Testing, an EPA accredited laboratory for analytical testing. Lab results can be found in the **Bulk Asbestos Analysis** section of this report. The samples were analyzed for the presence of asbestos by Polarized Light Microscopy (PLM) with dispersion staining in accordance with the EPA Method 600/R-93-116, Visual Area Estimation.

Regulations in California (Cal OSHA Title 8, CCR 1529) define asbestos containing construction materials (ACCM) as those materials having asbestos content of greater than one tenth of one percent ($>0.1\%$); therefore, for the purpose of this survey, any amount of asbestos detected will be considered positive.

Of the 19 samples that were analyzed by the lab for asbestos, none were found to contain asbestos.

CONCLUSIONS AND RECOMMENDATIONS

No asbestos containing materials were detected during this limited asbestos survey. If additional suspect material is discovered during any renovation or demolition activities, the material should be assumed to contain asbestos or sampled to prove otherwise. If other materials will be disturbed or removed that were not sampled and analyzed during this inspection, please call for additional sampling and analysis.

Any material that contains greater than 1 percent asbestos is considered asbestos containing material (ACM) and if removed, must be handled, transported, and disposed of according to EPA and other applicable local regulations.

The local County Air Pollution Control District is delegated authority to implement the asbestos NESHAP regulation in any given county. This regulation requires specific actions by the owner or operator of the applicable project. Before beginning the project and for additional information and requirements, be sure to visit the San Luis Obispo County APCD website (<https://www.slcleanair.org/rules-regulations/asbestos.php>) or call them at (805) 781-5912.

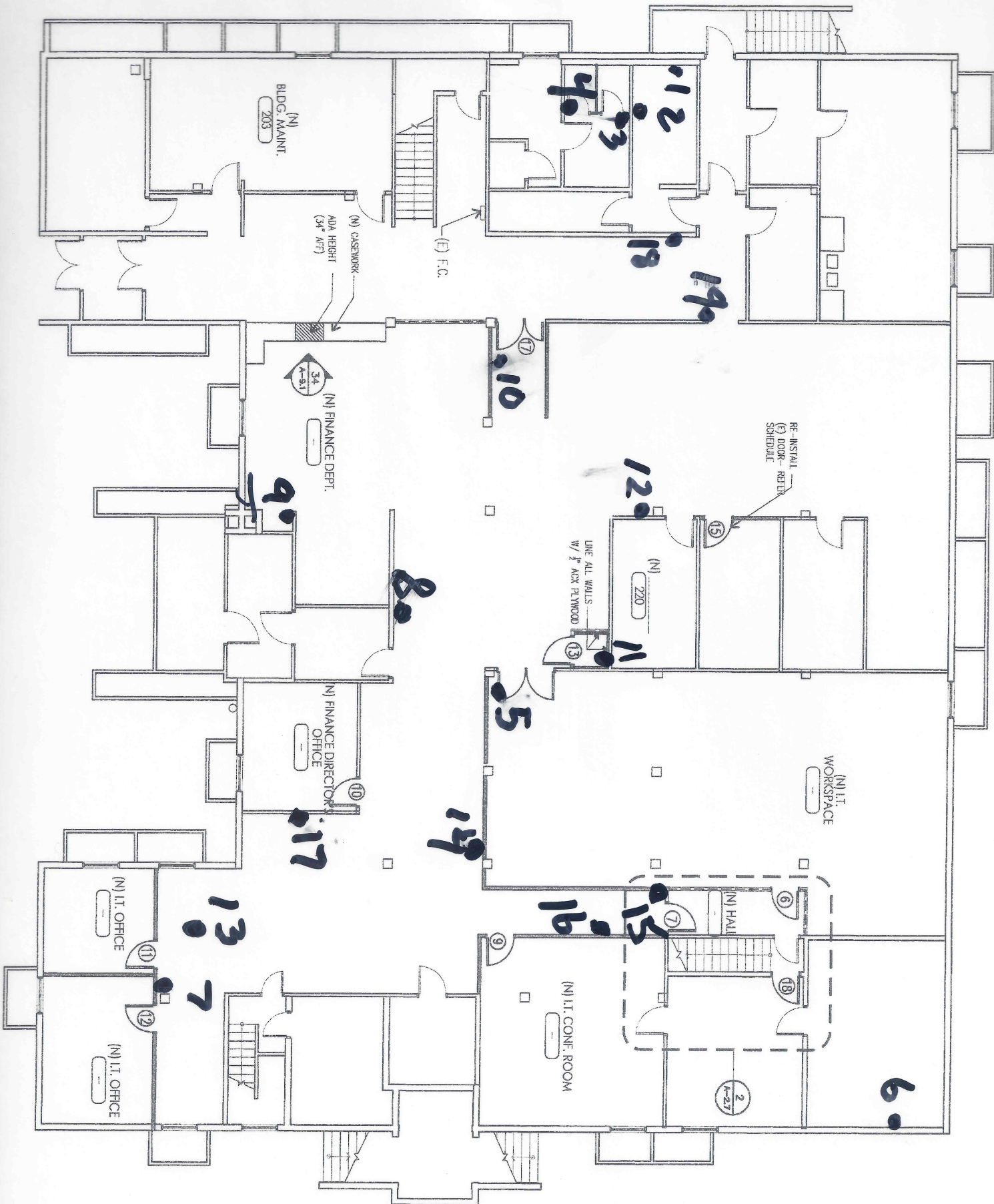
These conclusions and recommendations are based on the requirements set forth in 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (NESHAPS) Subpart M, and Title 8, Chapter 4, Section 1529 – Cal/OSHA Construction Safety Orders for Asbestos.

LIMITATIONS AND DISCLAIMERS

The findings and conclusions rendered in this report are opinions based on the scope of work authorized by the client and laboratory analysis of building material samples collected during this inspection. This report does not reflect variations which may exist between sampling points. These variations cannot be anticipated, nor could they be entirely accounted for, despite exhaustive additional testing. My work has been performed in accordance with generally accepted practices in the field of asbestos consultation. No other warranty, either expressed or implied, is made.

Although every effort is made to identify all the asbestos containing materials that may be disturbed, it is possible for asbestos containing materials which are located under tile flooring, under sub-floors, behind walls or otherwise hidden from view to go undetected until demolition or renovation activities uncover the material.

Enclosed with this report is the Bulk Asbestos Analysis (Laboratory Report) from LA Testing, Analysis Request Form (Chain of Custody), and my Certified Asbestos Consultant certification documentation.





EMSL Analytical, Inc.

3501 Thomas Road, Unit 9 Santa Clara, CA 95054

Tel/Fax: (408) 913-2714 / (408) 913-2715

<http://www.EMSL.com> / santaclaralab@EMSL.com

EMSL Order: 472400347

Customer ID: AISL42

Customer PO:

Project ID:

Attention: Mike Bruffey

Asbestos Inspections SLO

9517 Carmel Road

Atascadero, CA 93422

Phone: (805) 235-0582

Fax:

Received Date: 03/11/2024 9:00 AM

Analysis Date: 03/13/2024

Collected Date: 03/07/2024

Project: 990 PALM SLO FINANCE/IT

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1 472400347-0001	MENS RR/PALSTER	Beige Non-Fibrous Homogeneous		20% Quartz 60% Matrix 20% Non-fibrous (Other)	None Detected
2 472400347-0002	MENS RR/PLASTER	White Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
3 472400347-0003	WOMENS RR/PLASTER	White Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
4 472400347-0004	WOMENS RR/PLASTER	Beige Non-Fibrous Homogeneous		20% Quartz 60% Matrix 20% Non-fibrous (Other)	None Detected
5-Sheet Flooring 472400347-0005	WAREHOUSE/GREY SH FLOORING	Black Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
5-Leveler 472400347-0005A	WAREHOUSE/GREY SH FLOORING	Gray Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
5-Mastic 472400347-0005B	WAREHOUSE/GREY SH FLOORING	Tan Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
6-Drywall 472400347-0006	KITCHEN WALL/DWJC	White Non-Fibrous Homogeneous		80% Gypsum 20% Non-fibrous (Other)	None Detected
6-Joint Compound 472400347-0006A	KITCHEN WALL/DWJC				Layer Not Present
7-Drywall 472400347-0007	INT. SPEED WALL MATERIAL	White Non-Fibrous Homogeneous		80% Gypsum 20% Non-fibrous (Other)	None Detected
7-Joint Compound 472400347-0007A	INT. SPEED WALL MATERIAL	White Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
8 472400347-0008	INT. SPEED WALL MATERIAL	White Non-Fibrous Homogeneous		80% Gypsum 20% Non-fibrous (Other)	None Detected
9 472400347-0009	INT. SPEED WALL MATERIAL	White Non-Fibrous Homogeneous		80% Gypsum 20% Non-fibrous (Other)	None Detected
10 472400347-0010	INT. SPEED WALL MATERIAL	White Non-Fibrous Homogeneous		80% Gypsum 20% Non-fibrous (Other)	None Detected
11-Drywall 472400347-0011	INT. SPEED WALL MATERIAL	White Non-Fibrous Homogeneous		80% Gypsum 20% Non-fibrous (Other)	None Detected
11-Joint Compound 472400347-0011A	INT. SPEED WALL MATERIAL	White Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected

Initial report from: 03/13/2024 17:02:29



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EMSL Order: 472400347

Customer ID: AISL42

Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
12 472400347-0012	INT. SPEED WALL MATERIAL	White Non-Fibrous Homogeneous		80% Gypsum 20% Non-fibrous (Other)	None Detected
13 472400347-0013	2'X2' DROP IN CEILING TILE	White Fibrous Homogeneous	80% Glass	20% Non-fibrous (Other)	None Detected
14 472400347-0014	2'X2' DROP IN CEILING TILE	White Fibrous Homogeneous	80% Glass	20% Non-fibrous (Other)	None Detected
15-Drywall 472400347-0015	INT. SPEED WALL MATERIAL	White Non-Fibrous Homogeneous		80% Gypsum 20% Non-fibrous (Other)	None Detected
15-Joint Compound 472400347-0015A	INT. SPEED WALL MATERIAL	White Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
16 472400347-0016	INT. SPEED WALL MATERIAL	White Non-Fibrous Homogeneous		80% Gypsum 20% Non-fibrous (Other)	None Detected
17 472400347-0017	INT. SPEED WALL MATERIAL	White Non-Fibrous Homogeneous		80% Gypsum 20% Non-fibrous (Other)	None Detected
18-Fibrous Material 472400347-0018	HALL BRO FIBROUS	Brown Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
18-Mastic 472400347-0018A	HALL BRO FIBROUS	Beige Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
19-Drywall 472400347-0019	HALL DWJC	White Non-Fibrous Homogeneous		80% Gypsum 20% Non-fibrous (Other)	None Detected
19-Joint Compound 472400347-0019A	HALL DWJC				Layer Not Present

Analyst(s)

Christian Albayalde (7)

Elena White (9)

Kimberly Chuc (9)

Jonathan Nomura, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Santa Clara, CA NVLAP Lab Code 600318-0

Initial report from: 03/13/2024 17:02:29



Asbestos Chain of Custody (Air, Bulk, Soil)

California Customers

EMSL Order Number / Lab Use Only

LATESTING
5431 Industrial DriveHuntington Beach, CA 92649
PHONE: (714) 828-4999
EMAIL: huntingtonbeachlab@la

472400347

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information	Customer ID:	AISL42			Billing Information	Billing ID:													
	Company Name:	Asbestos Inspections SLO				Company Name:	Asbestos Inspections SLO												
	Contact Name:	Mike Bruffey				Billing Contact:	Mike Bruffey												
	Street Address:	9517 Carmel Road				Street Address:	9517 Carmel Road												
	City, State, Zip:	Atascadero	CA	93422		Country:	US												
	Phone:	805-235-0582				Phone:	805-235-0582												
Email(s) for Report:					bruffbruffey@gmail.com					Email(s) for Invoice:					same as				

Project Information			
Project Name/No:		990 Palm SLO Finance/IT	
Purchase Order:			
Emsl LIMS Project ID:		(If applicable, EMSL will provide)	
US State where samples collected:		CA	
State of Connecticut (CT) must select project location:		<input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable)	
Sampled By Name:		Mike Bruffey	
Sampled By Signature:		<i>Mike Bruffey</i>	
No. of Samples in Shipment:		19	
Turn-Around-Time (TAT)			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 4-4.5 Hour AHERA ONLY <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 32 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input checked="" type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
TEM Air 3-6 Hour, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.			

Test Selection			
PCM Air		TEM - Air	
<input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> NIOSH 7400 w/ 8hr. TWA <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> POINT COUNT <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) <input type="checkbox"/> 1,200 (<0.08%) POINT COUNT w/ GRAVIMETRIC <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) <input type="checkbox"/> 1,200 (<0.08%)		<input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> CARB Modified AHERA <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312* TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> TEM EPA 600/R-93/116 w Milling Prep (0.1%) TEM - Settled Dust <input type="checkbox"/> Microvac - ASTM D5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Qualitative via Filtration Prep <input type="checkbox"/> Qualitative via Drop Mount Prep	
Soil - Rock - Vermiculite (reporting limit)*		Other	
<input type="checkbox"/> PLM CARB 435 - Level A (<0.25%) <input type="checkbox"/> PLM CARB 435 - Level B (<0.1%) <input type="checkbox"/> TEM CARB 435 - Level B (<0.1%) <input type="checkbox"/> TEM CARB 435 - Level C (<0.01%) <input type="checkbox"/> CARB Guidance Compliance Prep <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%) <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.1%) <input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%)			

*Please call with your project-specific requirements

<input type="checkbox"/> Positive Stop - Clearly Identified Homogeneous Areas (HA)	Filter Pore Size (Air Samples)	<input type="checkbox"/> 0.8um <input type="checkbox"/> 0.45um
--	--------------------------------	--

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
1	Mens RR/Plaster		3-7-24-24/4:00
2	Mens RR/Plaster		
3	Womens RR/Plaster		
4	Womens RR/Plaster		
5	Warehouse/grey Sh flooring		
6	Kitchen Wall/DWJC		
7	Int. Speed Wall Material		
8	Int. Speed Wall Material		

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment: <i>Fed Ex S.O.</i>		Sample Condition Upon Receipt	
Relinquished by:	Mike Bruffey <i>MB</i>	Received by:	<i>Jonathan Sanford (EFA)</i>
Date/Time:	3-8-24/1:00	Date/Time:	3/11/24 9:40a
Relinquished by:	<i>RUD OCHOAIZ</i>	Received by:	<i>Jonathan Marmora</i>
Date/Time:		Date/Time:	3/13/24 10am

Controlled Document - COC-51 Asbestos CA Clients R3 03/24/2021

3/12/24 1:50

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMSL Order Number / Lab Use Only

EMAIL: huntingtonbeachlab@lat

472400347

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Controlled Document - COC-51 Asbestos CA Client R3 03/24/2021

☐ **AGREE TO ELECTRONIC SIGNATURE** (By checking, I consent to signing this Chain of Custody document by electronic signature.)

Page 2 of 2

ORIGIN ID: SBPA (805) 235-0582
 CONTACT NAME:
 ASBESTOS INSPECTIONS SLO
 9517 CARMEL ROAD.
 ATASCADERO CA 93422
 UNITED STATES US

SHIP DATE: 08MAR24
ACTWGT. 1.00 LB
CAD: 102509583WVSXJ2500

TO SAMPLE RECEIVING

**LA TESTING
5431 INDUSTRIAL DRIVE**

HUNTINGTON BEACH CA 92649
REC ADI (WFC/CA)

REF. ARL-WEB(A)	(714) 828-4999
RMA AISL42	INV
DEPT.	PO.

RIMA:



TRK# 7968 1098 0700
0221

RETURNS MON-FR
STANDARD OVERNIGHT

CA-US

92649



Disclaimer

Use of this FedEx shipping label is subject to the following restrictions and conditions:

IMPORTANT! Do not duplicate this label. Each package must contain a unique tracking number in order to maintain tracking and billing integrity.

1. This label may only be used on FedEx packaging: FedEx Envelope Pack or FedEx Box. This free shipping label is not valid for use on non-standard FedEx packages, nor coolers or other large boxes.
2. Valid for shipment of the following samples only: Asbestos testing of bulk material samples, wipe/dust samples, or air sample cassettes; Lead analysis of paint chips, air samples, or wipe samples; Microbiology air samples or bulk samples, tape lift samples, and/or swab samples; Metals (Air, Chips & Wipes), IH Organics (Formaldehyde, Methamphetamine, Isocyanates, BTEX, etc.), Combustion By-Products (Soot)/Material Identification, and Silica, Respirable Dust/Total Dust.
3. This label is not valid for shipment of any sample that requires a cooler or any other sample type not specifically described herein.
4. US: The package shipment must exceed a minimum of \$100 in analytical fees. If this minimum is not met, a minimum shipping fee of \$25 will be added to the analysis invoice. Canada: The package shipment must exceed a minimum of \$150 in analytical fees. If this minimum is not met, a minimum shipping fee of \$30 will be added to the analysis invoice.
5. Not valid for the shipping of any hazardous materials or items prohibited to be shipped by these means.
6. Any additional fees added by FedEx will be charged back to the customer who initiated the shipment, including, but not limited to: Custom pickup fees from FedEx, excessive weight fees, any surcharge items, etc.
7. This label is not valid for weekend or holiday deliveries.
8. Excludes Sunuma Canisters, Equipment Rental and Loaner Returns
9. Valid within the Continental United States or Canada. Label may not be utilized from US to Canada, or Canada to US.
10. Valid for only those accounts pre-approved to use this service. This courtesy shipping service may be terminated at any time by EMSL for any customer accounts that are not in good standing due to late payment /COD Status, or any other reason in the sole determination of EMSL.

DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Occupational Safety and Health-Asbestos Certification

1750 Howe Avenue, Suite 460

Sacramento, CA 95825

(916) 574-2993 Office <http://www.dir.ca.gov/dosh/asbestos.html> actu@dir.ca.gov

904056499C

447

May 03, 2023

Michael H Bruffey
9517 Carmel Road
Atascadero CA 93422

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email w any changes in your contact/mailling information within 15 days of the change.

Sincerely,

Kevin Graulich
Principal Safety Engineer

Attachment: Certification Card

cc: File

Renewal – Card Attached

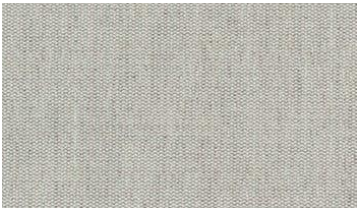


APPENDIX F – MATERIAL BOARD

SLO City Hall

Final Material Board

SLO City Hall - Workstation Finish Selections



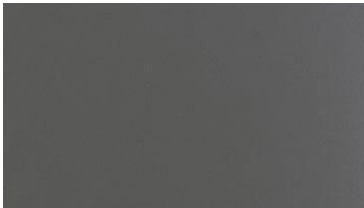
Primary Panel

STYLE: CAMP, COLOR: COT,
GRADE B



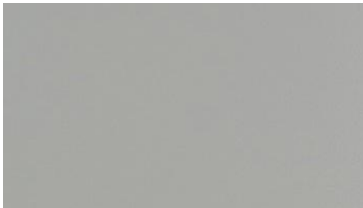
Accent Panel

STYLE: DOTS, COLOR: BASIL,
GRADE A



Trim

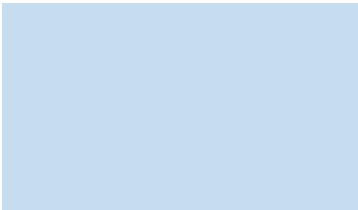
STYLE: GRAPHITE (TR-J)



Workstation Surface

STYLE: SMOKE (H-3E)

SLO City Hall - Interior Finish Selections



Accent Paint, Shared
Spaces

MFGR: DUNN EDWARDS,
COLOR: ISLAND VIEW,
DE5848



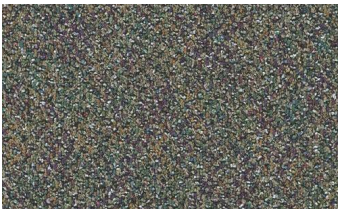
Accent Paint, IT

MFGR: DUNN EDWARDS,
COLOR: FRESH THYME,
DE5654



Accent Paint, Finance

MFGR: DUNN EDWARDS,
COLOR: OCTOBER HAZE,
DE5171



Carpet Tile (Existing)

MFGR: SHAW CARPET TILE,
COLOR: AQUARIUS, TO
MATCH EXISTING



Resilient Base (Existing)

MFGR: FLEXCO FLOORS,
SIZE: 6IN, STYLE: B COVE,
COLOR: UMBER 078, TO
MATCH EXISTING



Bathroom Wall Tile (Existing)

SIZE: 4x4", COLOR: TO
MATCH EXISTING



Bathroom Floor Tile
(Existing)

SIZE: 1x1", COLOR: TO
MATCH EXISTING



Breakroom Cabinet Finish
(To Match Existing)

TYPE: PAINTED, COLOR: SW
7016 MINDFUL GRAY



Breakroom Countertop (To
Match Existing)

MFGR: CAESARSTONE, TYPE:
QUARTZ, COLOR: 5000 LONDON
GREY



Breakroom Cabinet Hardware
(To Match Existing)

MFGR: ATLAS, TYPE: 326-BRN
BROWNING PULL, FINISH:
BRUSHED NICKEL



Breakroom Shelf

MFGR: FORMICA, TYPE:
LAMINATE - COMMERCIAL,
COLOR: MACCHIATO WALNUT