SRIA - PENSACOLA BEACH BOARDWALK RESTROOMS RENOVATION

SPECIFICATIONS

100% PERMITTING AND CONSTRUCTION SPECIFICATIONS

SANTA ROSA ISLAND AUTHORITY
Pensacola Beach, Florida

MARCH 3, 2026

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STANDARD TECHNICAL DESIGN SPECIFICATIONS

Pensacola Beach Boardwalk Restrooms Renovation – Santa Rosa Island Authority
In conjunction with Baskerville-Donovan, Inc. - 100% Permitting and Construction Documents

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SECTION 00030
BID PROPOSAL FORM

The undersigned Contractor, hereinafter called "Bidder," proposes to furnish all permitting documents, designs, material and labor for construction of Pensacola Beach Boardwalk Restroom Renovation for the Santa Rosa Island Authority, Pensacola Beach, Florida, hereinafter called the "Owner," in accordance with the specifications and in full accordance with instructions to bidders, contract and contract documents relating thereto on file in the office of the Santa Rosa Island Authority for the Sum of:

$_____

The Santa Rosa Island Authority has the right to accept all, some or none of the Bid Items.

NOTES:

1. Bids shall include sales tax and all other applicable taxes and fees.

The Bidder hereby agrees that the above proposal shall remain in full force and effect for a period of 60 days after the time of opening of this proposal and that the Bidder will not revoke or cancel this proposal or withdraw from the competition within said 60 day period, and that in the event the Contract is awarded to this Bidder, he will, within 10 consecutive calendar days after it is awarded, enter into written contract with the Owner in accordance with the accepted Bid.

The Bidder further agrees, that if awarded the Contract, to complete the said work within 100 calendar days after date of written Notice to Proceed, including any and all Alternates included in construction contract.

Acknowledgment is hereby made of receipt of the following Addenda issued during the bidding period:

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

ADDENDUM NO. _____ DATED _____

RESPECTFULLY SUBMITTED,

_____
CONTRACTOR

_____
Signature

_____
Address

_____
Title

_____
Phone Number

_____
License Number (if applicable)

_____
Date

SEAL - (if BID is by a corporation)

List of Subcontractors

_____

_____

_____

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
1	**Total Base Bid**	1	LS	_____	_____

NOTE: This project will be awarded to the lowest bidder based solely on the "TOTAL BASE BID" value listed above in the "BASE BID PAY ITEMS" table.

SECTION 01010 – SUMMARY OF WORK

PART 1 - GENERAL

1.01 WORK COVERED BY CONTRACT DOCUMENTS

A. The Project address
   1. 400 Quietwater Beach Rd., Pensacola Beach, FL 32561
   2. Owner: Santa Rosa Island Authority

B. Contract Documents, dated March 3, 2026, were prepared for the Project by Sam Marshall Architects 325 S. Palafox St. Pensacola, FL 32502

C. Project Summary:
   1. The work consists of the renovation of existing gang restrooms at the Pensacola Beach Boardwalk building between Ron Jon's Surf Shops.
   2. Major systems include:
      a. Architectural: Salvage and rebuild wood framed walls, replace steel doors and frames with fiberglass doors and frames, replace wood doors & frames with fiberglass doors and frames, gypsum board interior partitions to be replaced with new gypsum and tile board, replace ceramic floor/wall tile, clean existing fiber cement ceilings, replace signage, replace toilet accessories, and replace toilet partitions.
      b. HVAC: replace HVAC components in restrooms and custodial space. Reconnect ductwork including exhaust ducting at Men's and Women's restrooms to exterior.
      c. Plumbing: Replace existing plumbing fixtures with similar fixtures, new wall and countertop mounted lavatories, replace floor mounted water closets, replace existing electric water coolers, replace / add copper water lines where noted, replace / add PVC sanitary sewer piping where noted. Coordinate with mechanical and plumbing drawings.
      d. Electrical: Replace interior lighting in restrooms / custodial space / electrical room, coordinate with existing lighting controls, coordinate with existing power distribution system, salvage and replace fire detection and alarm system devices, and smoke detection. Coordinate with electrical drawings.

D. The Work will be constructed under a single prime contract.

E. The Project Schedule is as follows:
   1. Anticipated Notice to Proceed date: XXX
   2. Contractor access to the site: XXX
   3. Substantial Completion date: XXX
   4. Final Completion date: XXX

1.02 CONTRACTOR USE OF PREMISES

A. General: During the construction period the Contractor shall have full use of the premises for construction operations, including use of the site. The Contractor's use of the premises is limited by the Owner's right to perform work or to retain other contractors on

portions of the Project. The contractor shall coordinate his work activities so as not to disrupt boardwalk / store operations during work hours.

B. Use of the Site: Limit use of the premises to work in areas indicated. Confine operations to areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the Work is indicated.
   1. Existing Site Conditions: Mercantile operations will be in progress during certain periods of the construction period. Contractor shall erect and maintain construction fences and temporary barriers as required and at the direction of the SRIA to provide continuous protection of public life safety.
   2. Driveways and Entrances: Keep driveways and entrances serving the premises clear and available to the Owner, the Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

C. Use of the Existing Building: Maintain the existing building in a weathertight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building and its occupants during the construction period.

1.03 OWNER FURNISHED PRODUCTS

A. The Owner will furnish and the Contractor will install the following products:
   1. XXXXX

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 01010

SECTION 01035 – MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section specifies administrative and procedural requirements for handling and processing contract modifications.

1.2 MINOR CHANGES IN THE WORK

A. The Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or Contract Time, on AIA Form G710, Architect's Supplemental Instructions.

1.3 CHANGE ORDER PROPOSAL REQUESTS

A. Owner-Initiated Proposal Requests: The Architect will issue a detailed description of proposed changes in the Work that will require adjustment to the Contract Sum or Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.

1. Proposal requests issued by the Architect are for information only. Do not consider them as an instruction either to stop work in progress or to execute the proposed change.
2. Within 14 days of receipt of a proposal request, submit an estimate of cost necessary to execute the change to the Architect for the Owner's review.

a. Include a list of quantities of products required and unit costs, with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities.
b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
c. Include a statement indicating the effect the proposed change in the Work will have on the Contract Time.
d. Include separate line items for labor, materials, equipment, overhead and profit, and bond costs for each item of work proposed by the General Contractor. Items involving work by Subcontractors shall include the same cost break-down with the exception of bond costs. This information is required as a minimum for review and approval of cost changes to the contract.

B. Contractor-Initiated Proposals: When latent or unforeseen conditions require modifications to the Contract, the Contractor may propose changes by submitting a request for a change to the Architect.

1. Include a statement outlining the reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and Contract Time.
2. Include a list of quantities of products required and unit costs, with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities.
3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
4. Comply with requirements in Section "Product Substitutions" if the proposed change requires substitution of one product or system for a product or system specified.
5. Submit proposed changes and request within 21 days of identifying item.

C. Proposal Request Form: Use AIA Document G709 for Change Order Proposal Requests.

1.4 ALLOWANCES

A. Allowance Adjustment: For allowance-cost adjustment, base each Change Order Proposal on the difference between the actual purchase amount and the allowance, multiplied by the final measurement of work-in-place. Where applicable, include reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, and similar margins.

1. Include installation costs in the purchase amount only where indicated as part of the allowance.
2. When requested, prepare explanations and documentation to substantiate the margins claimed.
3. Submit substantiation of a change in scope of work claimed in the Change Orders related to unit-cost allowances.
4. The Owner reserves the right to establish the actual quantity of work-in-place by independent quantity survey, measure, or count.

B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or the Contractor's handling, labor, installation, overhead, and profit. Submit claims within 21 days of receipt of the Change Order or Construction Change Directive authorizing work to proceed. The Owner will reject claims submitted later than 21 days.

1. Do not include the Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of work has changed from what could have been foreseen from information in Contract Documents.
2. No change to the Contractor's indirect expense is permitted for selection of higher or lower-priced materials or systems of the same scope and nature as originally indicated.

1.5 CONSTRUCTION CHANGE DIRECTIVE

A. Construction Change Directive: When the Owner and the Contractor disagree on the terms of a Proposal Request, the Architect may issue a Construction Change Directive on AIA Form G714. The Construction Change Directive instructs the Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.

1. The Construction Change Directive contains a complete description of the change in the Work. It also designates the method to be followed to determine change in the Contract Sum or Contract Time.

B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.

1. After completion of the change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

1.6 CHANGE ORDER PROCEDURES

A. Upon the Owner's approval of a Proposal Request, the Architect will issue a Change Order using the School District standard Change Order Form for signatures of the Owner and the Contractor.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION

SECTION 01045 - CUTTING AND PATCHING

PART 1 - GENERAL

1.01 SUMMARY

A. Provide cutting and patching work, complying with project requirements for:

1. Structural work.
2. Mechanical/electrical systems.
3. Visual requirements, including special detailing.
4. Operational and safety limitations.
5. Fire resistance ratings.
6. Inspection, preparation, and performance.
7. Cleaning.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Match existing materials for cutting and patching work with new materials conforming to project requirements.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Inspect conditions prior to work to identify scope and type of work required. Notify Owner of work requiring interruption to building services or Owner's operations. Conform to project requirements listed above.

B. Perform work with workmen skilled in the trades involved. Prepare sample area of each type of work involved for approval.

C. Clean work area and areas affected by cutting and patching operations.

D. All cutting of exposed edges shall be by saw cutting.

E. Patch exposed surfaces as required to match the existing construction unless noted otherwise. Where cutting area will be concealed by new construction, make all surface preparations as required to receive the new finish material.

F. Adequately shore and support existing structural members and adjacent as required prior to the demolition of bearing construction.

G. Maintain all life safety systems in full operating condition during work and non-work hours. Provide minimum forty-eight (48) hour notification prior to any work involving life safety systems.

H. All penetrations through fire-rated construction shall be fire stopped as per NEC 300-21 using a through penetration fire stop system (XHEZ) listed in the Underwriters Laboratory Fire Resistance Directory.

END OF SECTION

SECTION 01068 – DEFINITIONS AND STANDARDS

PART 1 - GENERAL

1.01 DEFINITIONS:

A. General Explanation: A substantial amount of specification language constitutes definitions for terms found in other contract documents, including drawings. Certain terms used in contract documents are defined generally in this article. Definitions and explanations of this section are not necessarily either complete or exclusive, but are general for the work to extent not stated more explicitly in another provision of contract documents.

B. General Requirements: The provisions or requirements of Division-1 sections. General Requirements apply to entire work of Contract and, where so indicated, to other elements which are included in project.

C. Indicated: The term "Indicated" is a cross- reference to graphics, notes, or schedules on drawings, to other paragraphs or schedules in the specifications, and to similar means of recording requirements in contract documents. Where terms such as "shown", "noted", "scheduled", and "specified" are used in lieu of "indicated", it is for purpose of helping reader locate cross- reference, and no limitation of location is intended except as specifically noted.

D. Directed, Requested, etc.: Where not otherwise explained, terms such as "directed", "requested", "authorized", "selected", "approved", "required", "accepted", and "permitted" mean "directed by Architect/Engineer", "requested by Architect/ Engineer", etc. However, no such implied meaning will be interpreted to extend Architect's/ Engineer's responsibility into Contractor's area of construction supervision.

E. Approve: Where used in conjunction with Architect's/Engineer's response to submittals, requests, applications, inquiries, reports and claims by Contractor, the meaning of term "approved" will be held to limitations of Architect's/Engineer's responsibilities and duties as specified in General and Supplementary Conditions. In no case will "approval" by Architect/Engineer be interpreted as a release of Contractor from responsibilities to fulfill requirements of contract documents.

F. Project Site: The space available to Contractor for performance of the work, either exclusively or in conjunction with others performing other work as part of the project. The extent of project site is shown on drawings.

G. Furnish: Except as otherwise defined in greater detail, the term "furnish" is used to mean supply and deliver to project site, ready for unloading, unpacking,

assembly, installation, etc., as applicable in each instance.

H. Install: Except as otherwise defined in greater detail, term "install" is used to describe operations at project site including unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations, as applicable in each instance.

I. Provide: Except as otherwise defined in greater detail, term "provide" means furnish and install, complete and ready for intended use, as applicable in each instance.

J. Installer: The entity (person or firm) engaged by Contractor or its subcontractor or sub- subcontractor for performance of a particular unit of work at project site, including installation, erection, application, and similar required operations. It is a general requirement that such entities (Installers) be expert in operations they are engaged to perform.

K. Testing Laboratory: An independent entity engaged to perform specific inspections or tests or work, either at project site or elsewhere; and to report and (if required) interpret results of those inspections or tests.

1.02 FORMAT AND SPECIFICATION EXPLANATIONS:

A. Specification Production: None of these explanations will be interpreted to modify substance of requirements. Portions of these specifications have been produced by Architect's/ Engineer's standard methods of editing master specifications, and may contain minor deviations from traditional writing formats. Such deviations are a normal result of this production technique, and no other meaning will be implied or permitted.

B. Specification Content: Because of methods by which this project specification has been produced, certain general characteristics of content, and conventions in use of language are explained as follows:

1. Specifying Methods: The techniques of specifying to record requirements varies throughout text, and may include "prescriptive", "open generic-descriptive", or a combination of these. The method used for specifying one unit of work has no bearing on requirements for another unit of work.
2. Overlapping and Conflicting Requirements: Where compliance with 2 or more industry standards or sets of requirements is specified, and overlapping of those different standards or requirements establishes different or conflicting minimums or levels of quality, most stringent requirement (which is generally recognized to be also most costly) is intended and will be enforced, unless specifically detailed language written into contract documents (not by way of reference to an industry

standard) clearly indicates that a less stringent requirement is to be fulfilled. Refer apparently-equal- but-different requirements, and uncertainties as to which level of quality is the more stringent, to Architect/Engineer for a decision before proceeding.

a. Contractor's Options: Except for overlapping or conflicting requirements, where more than one set of requirements are specified for a particular unit of work, option is intended to be Contractor's regardless of whether specifically indicated as such.

3. Minimum Quality/Quantity: In every instance, quality level or quantity shown or specified is intended as minimum for the work to be performed or provided. Except as otherwise specifically indicated, actual work may either comply exactly with that minimum (within specified tolerances), or may exceed that minimum within reasonable limits. In complying with requirements, indicated numeric values are either minimums or maximums as noted or as appropriate for context of requirements. Refer instances of uncertainty to Architect/Engineer for decision before proceeding.
4. Abbreviations: The language of specifications and other contract documents is of the abbreviated type in certain instances, and implies words and meanings which will be appropriately interpreted. Actual work abbreviations of a self- explanatory nature have been included in texts. Specific abbreviations have been established, principally for lengthy technical terminology and primarily in conjunction with coordination of specification requirements with notations on drawings and in schedules. These are frequently defined in section at first instance of use. Trade association names and titles of general standards are frequently abbreviated. Singular words will be interpreted as plural and plural words will be interpreted as singular where applicable and where full context of the contract documents so indicates.

1.03 INDUSTRY STANDARDS:

A. General Applicability of Standards: Applicable standards of construction industry have same force and effect (and are made a part of contract documents by reference) as if copied directly contract documents, or as if published copies were bound herewith.
   1. Referenced standards (referenced directly in contract documents or by governing regulations) have precedence over non- referenced standards which are recognized in industry for applicability to work.
   2. Non-referenced standards are hereby defined to have no particular applicability to the work, except as a general measurement of whether work complies with standards recognized in construction industry.
   3. Non-referenced standards recognized in the construction industry are

hereby defined, except as otherwise limited in contract documents, to have direct applicability to the work, and will be so enforced for performance of the work.

B. Publication Dates: Except as otherwise indicated, where compliance with an industry standard is required, comply with standard in effect as of date of contract documents.

C. The following standards were utilized in the design of this project: (Add and update codes as required)

Florida Building Code (2023 Eighth Edition)
Florida Existing Building Code (2023 Eighth Edition)
Florida Fire Prevention Code (2023 Eighth Edition)
Life Safety Code - NFPA 101
Florida Mechanical Code (2023)
Florida Plumbing Code (2023)
Florida Energy Code (2023)
Florida Accessibility Code (2023)
National Fire Protection Association (NFPA)
American Society of Heating and Refrigeration Engineers (ASHRAE)
American Society of Plumbing Engineers (ASPE)
National Electric Code NFPA 70, 2023 Edition

D. GOVERNING REGULATIONS/AUTHORITIES: General: The procedure followed by Architect/Engineer has been to contact governing authorities where necessary to obtain information needed for the purpose of preparing contract documents; recognizing that such information may or may not be of significance in relation to Contractor's responsibilities for performing the work. Contact governing authorities directly for necessary information and decisions having a bearing on performance of work.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION

SECTION 01100 – PROCEDURES, CONTROLS, AND PAYMENTS

PART 1 - GENERAL

1.01 SUMMARY

A. Provide coordination of work.
   1. Supervisory personnel.
   2. Pre-construction conference.
   3. Bi-weekly progress meetings: *The Architect/Engineer* shall prepare and distribute meeting minutes. Progress meetings shall include the Architect/Engineer, General Contractor and major subcontractors, and the Owner's Project Manager / Representative. Meetings are to be held on the project site and an adequate facility provided by the contractor.
   4. Other meetings as required.

B. Construction Schedule; Submit comprehensive, fully-developed, horizontal Gantt-chart-type construction schedule within ten (10) consecutive days of notice of award of contract. Indicate each significant construction activity separately. Provide updated schedule at each weekly progress meeting.

C. Prepare submittal schedule; coordinate with progress schedule.

D. Unit Schedule; Submit schedule of values within ten (10) consecutive days of notice of award of contract, use AIA Form G-703.

E. Submit schedule of required tests (payment and responsibility).

F. Submit record drawings and specifications; to be maintained and annotated by Contractor as work progresses.

G. Submit payment request procedures use AIA Form G702, payment to be made monthly, submit to Architect for approval before 25th of each month.

H. Perform cutting and patching.

I. Clean and protect the work.

PART 2 – PRODUCTS (Not Applicable)
PART 3 – EXECUTION (Not Applicable)

END OF SECTION

SECTION 01300 - SUBMITTALS, PRODUCTS, AND SUBSTITUTIONS

PART 1 - GENERAL

1.01 SUMMARY

A. Comply with project format for submittals.

B. Provide PDF submittals listed in individual sections. Where items are to be typically reviewed by the engineering consultants, please copy the owner's representative and architect. PDF's will be returned with the Architect's and engineer's shop drawing stamp indicating submittal's disposition.

1. Shop drawings, reviewed, annotated and approved by the Contractor - blue line or black line markups on pdfs.
2. Product data.
3. Samples – 2 physical samples, plus extra samples as required indicating range of color, finish, and texture to be expected.
4. Inspection and test reports for owner and architect's review.
5. Warranties - pdf copies for owner and architect's review.
6. Closeout submittals – pdf copies for owner and architect's review.

C. Provide required re-submittals; provide distribution of approved pdf copies.

D. Samples and shop drawings shall be prepared specifically for this project. Shop drawings shall include dimensions and details, including adjacent construction.

E. Provide warranties as specified; warranties shall not limit length of time for remedy of damages Owner may have by legal statute. Warranties shall be signed by Manufacturer and Contractor.

F. Provide products specified or approved equal. Products submitted for substitution shall be submitted with acceptable documentation and include costs of substitution including related work.

G. Substitutions shall be submitted **10 days** prior to bid opening, unless otherwise acceptable to the Architect of Record.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION

SECTION 01500 - TEMPORARY FACILITIES

PART 1 - GENERAL

1.01 SUMMARY

A. Provide temporary services and utilities:
   1. Water (potable) may be available at site for contractor use. Provide meter and pay for usage.
   2. Sewer sediment. Provide portable toilets as required for workers.
   3. Provide arrangements for temporary power for the duration of the project. Provide meter and pay for usage. The SRIA will pay for all utilities during construction.
   4. Telephone and fax machine in field office.

B. Provide construction facilities:
   1. Construction equipment.
   2. Enclosure.
   3. Heating / Cooling.
   4. Lighting.
   5. Access.

C. Provide security and protection requirements:
   1. Fire extinguishers.
   2. Site enclosure fence, barricades, warning signs, and lights. **A six (6) foot chain link fence shall be constructed around the contractors work and lay down areas to provide security and protection for the general public on site. Any exceptions shall be approved by the Architect and SRIA / BDI, Inc.**
   3. Building enclosure and lock-up.
   4. Environmental protection.
   5. Pest control.
   6. Provide temporary walls as indicated or as required to control noise, dust, dirt, and prevent access to construction area by unauthorized persons.

D. Provide personnel support facilities:
   1. Contractor's field office.
   2. Sanitary facilities.
   3. Drinking water.
   4. Cleaning and trash removal.

END OF SECTION

SECTION 01700 – PROJECT CLOSEOUT

PART 1 - GENERAL

1.01 SUMMARY

A. Provide pre-requisites to substantial completion.

1. Punch list.
2. Escambia County Department of Health bacteriological tests indicating potable water is acceptable for drinking.
3. Fire alarm test and certification of compliance with NFPA 72.
4. Demonstrate emergency lighting is functioning in accordance with applicable codes.
5. Exit lighting functioning in accordance with applicable codes.
6. Fire rated opening protective's labeled and functioning in accordance with NFPA.
7. Start-up and testing of building systems.
8. Test and balance of the HVAC system.
9. Coordinate change over of locks with SRIA project manager.
10. Initial cleaning.
11. Certificate of Occupancy from City or County Building Inspection Department.

B. Provide prerequisites to final acceptance.

1. Final application for payment.
2. Signed Certificate of Substantial Completion.
3. Consent of Surety to Final Payment.
4. Warranties and similar documentation including maintenance and operating manuals.
5. Publication Notice to Creditors.
6. Final Release of Liens.
7. Instruction/training of Owner's personnel in systems operations.
8. Specifications (two bound copies) and Electronic As-built Record drawings in PDF Format on CD.
9. Completed punch list.

C. Provide closeout procedures.

1. Turnover to Owner's personnel.
2. Final cleaning and touch-up.
3. Removal of temporary facilities.

PART 2 - PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION

SECTION 01710 - CLEANING

PART 1 - GENERAL

1.01 Conditions and requirements:

A. The General Conditions, Supplementary Conditions and Division 1 - General Requirements apply.

B. The Contractor shall perform work according to this section during construction and final cleaning of all surfaces and materials.

1.02 APPLICABLE PUBLICATIONS:

A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1. Code of Federal Regulations (CFR).
   40 CFR 260 -268 & 761, Hazardous Waste Management.
2. Florida Administrative Code (FAC).
   Rule 17-30, Hazardous Waste.

1.03 DESCRIPTION:

A. Maintain premises and properties free from accumulations of waste, debris, and rubbish caused by operations.

B. At completion of work, remove waste materials, rubbish, tools, equipment, machinery and surplus materials, and clean all sight-exposed surfaces; leave project clean and ready for occupancy.

1.04 SAFETY REQUIREMENTS:

A. Standards: Maintain project in accordance with safety and insurance standards.

B. Hazards Control:

1. Store volatile wastes in covered material containers, and remove from premises daily.
2. Prevent accumulation of wastes that create hazardous conditions.
3. Provide adequate ventilation during use of volatile or noxious substances.

C. Contractor shall dispose of all hazardous waste in accordance with all applicable Federal and State laws including but not limited to 40 CFR 260-268, 761 and FAC Rule 17.30

1. Do not burn or bury rubbish and waste materials on project site.
2. Do not dispose of volatile wastes such as mineral spirits, oil, or paint thinner in storm or sanitary drains.

3. Do not dispose of wastes into streams or waterways.
4. Do not dispose of hazardous waste containers in dumpsters.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. Use only cleaning materials recommended by manufacturer of surface to be cleaned.

PART 3 - EXECUTION

3.01 DURING CONSTRUCTION:

A. Execute cleaning to ensure that buildings, grounds, and public properties are maintained free from accumulations of waste materials and rubbish.

B. Clean site and dispose of waste materials, debris, and rubbish on a daily basis.

C. Remove waste materials, debris, and rubbish from site and legally dispose.

D. During construction, perform magnetic sweep around construction site on a daily basis for loose nails and metallic wastes.

3.02 FINAL CLEANING:

A. In preparation for substantial completion or occupancy, conduct final inspection of sight-exposed interior and exterior surfaces, and of concealed spaces.

B. Repair, patch and touch up marred surfaces to specified finish, to match adjacent surfaces.

C. Maintain cleaning until project, or portion thereof, is occupied by the Owner.

END OF SECTION 01710

SECTION 02050 - BUILDING DEMOLITION

PART 1 – GENERAL

1.01 SUMMARY

A. This Section includes the following:
   1. Demolition and removal of buildings and site improvements.
   2. Removing below-grade construction.
   3. Disconnecting, capping or sealing, and removing site utilities.
   4. Salvaging items for reuse by Owner.

1.02 DEFINITIONS

A. Demolish: Completely remove and legally dispose of off-site.
B. Recycle: Recovery of demolition waste for subsequent processing in preparation for reuse.
C. Salvage: Carefully detach from existing construction, in a manner to prevent damage, and deliver to Owner ready for reuse. Include fasteners or brackets needed for reattachment elsewhere.

1.03 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes property of Contractor.
B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
   1. Carefully salvage in a manner to prevent damage and promptly return to Owner.
   2. Carefully salvage the electric hand dryers, sensor sinks, baby changing station, signage, soap dispensers, wall mount battery powered scentors.

1.04 SUBMITTALS

A. Qualification Data: For refrigerant recovery technician.
B. Proposed Protection Measures: Submit informational report, including drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control and, for noise control. Indicate proposed locations and construction of barriers.
   1. Adjacent Buildings: Detail special measures proposed to protect adjacent buildings to remain.
C. Schedule of Building Demolition Activities: Indicate the following:
   1. Detailed sequence of demolition work, with starting and ending dates for each activity.
   2. Temporary interruption of utility services.
   3. Shutoff and capping or re-routing of utility services.
D. Building Demolition Plans: Drawings indicating the following:
   1. Locations of temporary protection and means of egress for adjacent occupied buildings.

E. Inventory: Submit a list of items to be removed and salvaged and deliver to Owner prior to start of demolition.

F. Predemolition Photographs: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by building demolition operations. Submit before the Work begins.

G. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

H. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.

1.05 QUALITY ASSURANCE

A. Refrigerant Recovery Technician Qualifications: Certified by EPA-approved certification program.

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

C. Standards: Comply with ANSI A10.6 and NFPA 241.

1.06 PROJECT CONDITIONS

A. Buildings to be demolished will be vacated and their use discontinued before start of the Work.

B. Buildings immediately adjacent to demolition area will be occupied. Conduct building demolition so operations of occupied buildings will not be disrupted.

1. Provide not less than 72 hours' notice of activities that will affect operations of adjacent occupied buildings.

2. Maintain access to existing walkways, exits, and other facilities used by occupants of adjacent buildings.

a. Do not close or obstruct walkways, exits, or other facilities used by occupants of adjacent buildings without written permission from authorities having jurisdiction.

C. Owner assumes no responsibility for buildings and structures to be demolished.

1. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.

1. Hazardous materials will be removed by Owner before start of the Work.

2. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.

E. On-site storage or sale of removed items or materials is not permitted.

1.07 COORDINATION

A. Arrange demolition schedule so as not to interfere with Owner's on-site operations.

PART 2 – PRODUCTS

2.01 SOIL MATERIALS

A. Satisfactory Soils: Comply with requirements in Division 2 Section "Earthwork."

PART 3 – EXECUTION

3.01 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting demolition operations.
B. Review Project Record Documents of existing construction provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in Project Record Documents.
C. Engage a professional engineer to perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during building demolition operations.
D. Verify that hazardous materials have been remediated before proceeding with building demolition operations.

3.02 PREPARATION

A. Refrigerant: Remove refrigerant from mechanical equipment according to 40 CFR 82 and regulations of authorities having jurisdiction before starting demolition.
B. Existing Utilities: Locate, identify, disconnect, and seal or cap off indicated utilities serving buildings and structures to be demolished.
    1. Owner will arrange to shut off indicated utilities when requested by Contractor.
    2. Arrange to shut off indicated utilities with utility companies.
    3. If removal, relocation, or abandonment of utility services will affect adjacent occupied buildings, then provide temporary utilities that bypass buildings and structures to be demolished and that maintain continuity of service to other buildings and structures.
    4. Cut off pipe or conduit a minimum of 24 inches (610 mm) below grade. Cap, valve, or plug and seal remaining portion of pipe or conduit after bypassing according to requirements of authorities having jurisdiction.
C. Existing Utilities: Refer to Division 15 and 16 Sections for shutting off, disconnecting, removing, and sealing or capping utilities. Do not start demolition work until utility disconnecting and sealing have been completed and verified in writing.
D. Temporary Shoring: Provide and maintain interior and exterior shoring, bracing, or structural support to preserve stability and prevent unexpected movement or collapse of construction being demolished.
    1. Strengthen or add new supports when required during progress of demolition.

3.03 PROTECTION

A. Existing Facilities: Protect adjacent walkways, loading docks, building entries, and other building facilities during demolition operations. Maintain exits from existing buildings.

B. Existing Utilities: Maintain utility services to remain and protect from damage during demolition operations.
   1. Do not interrupt existing utilities serving adjacent occupied or operating facilities unless authorized in writing by Owner and authorities having jurisdiction.
   2. Provide temporary services during interruptions to existing utilities, as acceptable to Owner and authorities having jurisdiction.
      a. Provide at least 72 hours' notice to occupants of affected buildings if shutdown of service is required during changeover.

C. Temporary Protection: Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction, and as indicated. Comply with requirements in Division 1 Section "Temporary Facilities and Controls."
   1. Protect adjacent buildings and facilities from damage due to demolition activities.
   2. Protect existing site improvements, appurtenances, and landscaping to remain.
   3. Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
   4. Provide protection to ensure safe passage of people around building demolition area and to and from occupied portions of adjacent buildings and structures.
   5. Protect walls, windows, roofs, and other adjacent exterior construction that are to remain and that are exposed to building demolition operations.

D. Remove temporary barriers and protections where hazards no longer exist. Where open excavations or other hazardous conditions remain, leave temporary barriers and protections in place.

3.04 DEMOLITION, GENERAL

A. General: Demolish indicated existing buildings and site improvements completely. Use methods required to complete the Work within limitations of governing regulations and as follows:
   1. Do not use cutting torches until work area is cleared of flammable materials. Maintain portable fire-suppression devices during flame-cutting operations.
   2. Maintain adequate ventilation when using cutting torches.
   3. Locate building demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.

B. Engineering Surveys: During demolition, perform surveys to detect hazards that may result from building demolition activities.

C. Site Access and Temporary Controls: Conduct building demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
   1. Do not close or obstruct streets, walks, walkways, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
   2. Use water mist and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations. Do not use water when it may damage adjacent construction or create hazardous or objectionable conditions, such as ice, flooding, and pollution.

D. Explosives: Use of explosives is not permitted.

3.05 DEMOLITION BY MECHANICAL MEANS

A. Proceed with demolition of structural framing members systematically, from higher to lower level. Complete building demolition operations above each floor or tier before disturbing supporting members on the next lower level.

B. Remove debris from elevated portions of the building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
   1. Remove structural framing members and lower to ground by method suitable to minimize ground impact and dust generation.

C. Below-Grade / below-slab Construction: Demolish foundation walls and other below-grade construction that are within footprint of new construction and extending 5 feet (1.5 m) outside footprint indicated for new construction. Abandon below-grade construction outside this area.
   1. Remove below-grade construction, including basements, foundation walls, and footings, to at least 12 inches (300 mm) below grade.

D. Existing Utilities: Demolish existing utilities and below-grade utility structures that are within 5 feet (1.5 m) outside footprint indicated for new construction. Abandon utilities outside this area.
   1. Fill abandoned utility structures with satisfactory soil materials according to backfill requirements in Division 2 Section "Earthwork."

3.06 SITE RESTORATION

A. Below-Slab Areas: Completely fill below-grade areas and voids resulting from building demolition operations with satisfactory sand materials according to backfill requirements in Division 2 Section "Earthwork."

B. Site Grading: Uniformly rough grade area of demolished construction to a smooth surface, free from irregular surface changes. Provide a smooth transition between adjacent existing grades and new grades.

3.07 REPAIRS

A. Promptly repair damage to adjacent buildings caused by demolition operations.

3.08 DISPOSAL OF DEMOLISHED MATERIALS

A. Remove demolition waste materials from Project site and legally dispose of them in an EPA-approved landfill acceptable to authorities having jurisdiction.
   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.

B. Do not burn demolished materials.

3.09 CLEANING

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

END OF SECTION 02050

SECTION 02280 – TERMITE CONTROL

PART 1 - GENERAL

1.01 SUMMARY

A. Provide termite treatment at wood stud framing where finishes are removed and new walls are constructed.

1.02 SUBMITTALS

A. Submit for approval product data, guarantee, and warranty.

1.03 QUALITY ASSURANCE

A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

1.04 GUARANTEE

A. Furnish the Owner with a Certified Guarantee, stating the following: Treatment shall remain effective for not less than five (5) years from the date of the Certificate of Occupancy. The contractor shall furnish a written 5-year guarantee stating that if, at any time during the 5-year period, ground nesting termites occur, treatment will be applied to exterminate all infestations without cost to Owner. The School District Maintenance representative must be present at all re-treatments under the same conditions as treatment. There shall be no annual cost, to the Owner, to keep the policy in effect for the full five (5) year period. All correspondence during the five (5) year period related to re-treatments or guarantee shall be directed to the Maintenance Department at 469-5478. Do not contact the school.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Treat with a non-repellant subterranean termiticide, registered by EPA.

B. Termiticide used shall meet the following standards:

1. Active Ingredients: Fipronil:5-amino-1(2,6-dichloro-4(trifluoromethyl) pheny)4-(1,R,S)-(trifluoromethyl)sulfiny)-1-H-pyrazole-3-carbonitrile……..80%

PART 3 - EXECUTION

3.01 INSTALLATION

A. New and existing wall treatment shall be strictly applied in accordance with the manufacturer's label, the recommendations of the National Pest Control Association, and the Florida Department of Agriculture & Consumer Services', Memorandum No. 685 dated October 29, 1997, as follows:

1. All aspects of the label shall be done according to the specific job site requirement.
2. Termiticides shall be mixed at the "maximum" ratio allowed as per individual label specifications.
3. All horizontal barriers shall be treated at the rate of one gallon per ten square feet.
4. All vertical barriers shall be treated at the rate of four gallons per ten linear feet (per foot of depth), not to exceed four feet of depth.
5. All void barriers shall be treated at the rate of two gallons per ten linear feet.
6. All critical areas, such as penetrations through slab, plumbing, conduit, electrical, etc. shall be treated at the rate of one gallon per square foot.
7. All foundation block shall be treated with termiticide before being filled with concrete.
8. Exterior applications shall be done before sidewalks, porches, patios, and driveways, etc. are completed.
9. All final vertical applications shall be done after final landscaping and grading is completed.
10. Applicator shall have dedicated tank. Tank that is used for applying repellant type termiticides will not be allowed.
11. The applicator shall prepare and show the District maintenance representative his calculations of application and the numbers will be verified by District maintenance representative.

B. A SRIA maintenance representative must be present when the soil is being treated for termites. Therefore, the SRIA and Baskerville-Donovan, Inc. shall be notified at least 24 hours prior to the scheduled soil treatment. The General Contractor is responsible for contacting the SRIA for each individual scheduled termiticide application.

C. If the potential for public safety exists due to overspray drift, pre-treatments may need to be scheduled for after hours, (excluding weekends).

D. Applicator shall wait until maintenance staff has arrived before mixing any chemical. If not, chemical that has been mixed will not be accepted as being at the proper ratio and shall not be used.

E. Applicator shall use termiticide from its original sealed container and container shall be opened in the presence of the SRIA maintenance representative.

F. Container shall have original label intact.

G. Applicator shall furnish label and MSDS sheets of termiticides being used at the time of application to the SRIA maintenance representative.

H. Applicator shall provide sample of raw chemical and tank mix upon request of SRIA maintenance representative.

I. Applicator shall add marking die to each tank mix to insure uniform coverage.

J. The Contractor shall be responsible for ensuring that the contracted Pest Control firm is called back to perform all final applications.

K. If sidewalks, porches, patios, driveways, etc. are poured adjacent to the structure before area has been treated with termiticide, they must be removed for the area to be treated and then built back. Patched drill holes in new construction will not be accepted.

L. The treatment of the soil shall be done in accordance with Memorandum No. 685 from the Florida Department of Agriculture as follows: "The application of horizontal and vertical barriers must be done at the full label concentration and in volumes (amounts) specified on the label." This may require three separate trips or more by the soil treatment contractor.

M. Do not begin treatment work until all excavation, filling and grading is completed. Do not apply treatment to frozen or excessively wet soils.

N. Post signs and other warning indicating that soil poisoning has been applied. Protect persons and property from injury or damage from soil treatment work.

END OF SECTION 02280

SECTION 03310 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.01 SUMMARY

A. This Section includes cast-in-place concrete, including reinforcement, concrete materials, mix design, placement procedures, and finishes.
B. Patching holes /areas in the concrete slab where existing holes or plumbing fixtures are located or were located.
C. See Division 2 Section "Earthwork" for drainage fill under slabs-on-grade.

1.02 SUBMITTALS

A. Product Data: For each manufactured material and product indicated.
B. Design Mixes: For each concrete mix indicated.
C. Shop Drawings: Include details of steel reinforcement placement including material, grade, bar schedules, stirrup spacing, bent bar diagrams, arrangement, and supports.
D. Material certificates.

1.03 QUALITY ASSURANCE

A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products complying with ASTM C 94 requirements for production facilities and equipment.
B. Comply with ACI 301, "Specification for Structural Concrete," including the following, unless modified by the requirements of the Contract Documents.
    1. General requirements, including submittals, quality assurance, acceptance of structure, and protection of in-place concrete.
    2. Formwork and form accessories.
    3. Steel reinforcement and supports.
    4. Concrete mixtures.
    5. Handling, placing, and constructing concrete.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Formwork: Furnish formwork and form accessories according to ACI 301.
B. Steel Reinforcement:
    1. Reinforcing Bars: ASTM A 615 Grade 60, deformed.
    2. Plain-Steel Wire: ASTM A 82, as drawn.
    3. Plain-Steel Welded Wire Fabric: ASTM A 185, fabricated from as-drawn steel wire into flat sheets.
C. Concrete Materials:
    1. Portland Cement: ASTM C 150, Type I or II or I/II.
    2. Normal-Weight Aggregate: ASTM C 33, uniformly graded, not exceeding 1-1/2-inch nominal size.

3. Water: Complying with ASTM C 94.
4. Synthetic Fiber: Fibrillated or monofilament polypropylene fibers engineered and designed for use in concrete, complying with ASTM C 1116, Type III, 1/2 to 1-1/2 inches long.

D. Admixtures:
1. Air-Entraining Admixture: ASTM C 260.
2. Water-Reducing Admixture: ASTM C 494, Type A.
3. Water-Reducing and Accelerating Admixture: ASTM C 494, Type E.
4. Water-Reducing and Retarding Admixture: ASTM C 494, Type D.

E. Vapor Barrier: ASTM E 1745, Class A, Not less than 15 mils thick.
1. Sheet Vapor Barrier: Permeance of less than 0.01 Perms [grains/(ft^2 · hr · inHg)] as tested in accordance with ASTM E 1745 Section 7. Include manufacturer's recommended polyethylene pressure-sensitive seam tape and vapor-proofing mastic. Lap joints 6 inches minimum.

F. Joint-Filler Strips: ASTM D 1752, cork or self-expanding cork.

G. Curing Materials:
1. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.
2. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf.
3. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
4. Water: Potable.
5. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B.

2.02 CONCRETE MIXES

A. Comply with ACI 301 requirements for concrete mixtures.

B. Prepare design mixes, proportioned according to ACI 301, for normal-weight concrete determined by either laboratory trial mix or field test data bases, as follows:
1. Compressive Strength (28 Days): 3500 psi.
2. Slump: 4 inches.

C. Add air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having an air content of 2.5 to 4.5 percent.
1. Air content of trowel-finished interior concrete floors shall not exceed 3.0 percent.

D. Synthetic Fiber: Uniformly disperse in concrete mix at manufacturer's recommended rate, but not less than 1.0 lb/cu. yd.

2.03 CONCRETE MIXING

A. Ready-Mixed Concrete: Comply with ASTM C 94 and ASTM C 1116.
1. When air temperature is between 85 and 90 deg F (30 and 32 deg C), reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery time to 60 minutes.

B. Provide batch ticket for each batch discharged and used in the Work, indicating Project identification name and number, date, mix type, mix time, quantity, and amount of water added. Record approximate location of final deposit in structure.

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

A. Formwork: Design, construct, erect, shore, brace, and maintain formwork according to ACI 301.

B. Vapor Barrier: Install, protect, and repair vapor-barrier sheets according to ASTM E 1643; place sheets in position with longest dimension parallel with direction of pour.
   1. Lap joints 6 inches and seal with manufacturer's recommended tape.

C. Steel Reinforcement: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
   1. Do not cut or puncture vapor barrier. Repair damage and reseal vapor barrier before placing concrete.

D. Joints: Construct joints true to line with faces perpendicular to surface plane of concrete.
   1. Construction Joints: Locate and install so as not to impair strength or appearance of concrete, at locations indicated or as approved by Architect.
   2. Isolation Joints: Install joint-filler strips at junctions with slabs-on-grade and vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.
      a. Extend joint fillers full width and depth of joint, terminating flush with finished concrete surface, unless otherwise indicated.
   3. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, as follows:
      a. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint with groover tool to a radius of 1/8 inch. Repeat grooving of contraction joints after applying surface finishes. Eliminate groover marks on concrete surfaces.
      b. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch- wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.

E. Tolerances: Comply with ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."

3.02 CONCRETE PLACEMENT

A. Comply with recommendations in ACI 304R for measuring, mixing, transporting, and placing concrete.

B. Consolidate concrete with mechanical vibrating equipment.

3.03 FINISHING FORMED SURFACES

A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defective areas repaired and patched, and fins and other projections exceeding 1/4 inch in height rubbed down or chipped off.
   1. Apply to concrete surfaces not exposed to public view.

B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defective areas. Completely remove fins and other projections.
   1. Apply to concrete surfaces exposed to public view or to be covered with a coating or covering material applied directly to concrete, such as waterproofing, dampproofing, veneer plaster, or painting.
   2. Apply smooth-rubbed finish, defined in ACI 301, to smooth-formed finished concrete.

C. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.

3.04 FINISHING UNFORMED SURFACES

A. General: Comply with ACI 302.1R for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.

B. Screed surfaces with a straightedge and strike off. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane before excess moisture or bleedwater appears on the surface.
   1. Do not further disturb surfaces before starting finishing operations.

C. Scratch Finish: Apply scratch finish to surfaces to receive concrete floor topping or mortar setting beds for ceramic or quarry tile, and other bonded cementitious floor finish, unless otherwise indicated.

D. Float Finish: Apply float finish to surfaces indicated, to surfaces to receive trowel finish, and to floor and slab surfaces to be covered with fluid-applied or sheet waterproofing.

E. Trowel Finish: Apply a hard trowel finish to surfaces indicated and to floor and slab surfaces exposed to view or to be covered with resilient flooring, carpet, paint, or another thin film-finish coating system.

F. Trowel and Fine-Broom Finish: Apply a partial trowel finish, stopping after second troweling, to surfaces indicated and to surfaces where ceramic tile is to be installed by thin-set methods. Immediately after second troweling, and when concrete is still plastic, slightly scarify surface with a fine broom.

G. Nonslip Broom Finish: Apply a nonslip broom finish to surfaces indicated and to exterior concrete platforms, steps, and ramps. Immediately after float finishing, slightly roughen trafficked surface by brooming with fiber-bristle broom perpendicular to main traffic route.

3.05 CONCRETE PROTECTION AND CURING

A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection, and follow recommendations in ACI 305R for hot-weather protection during curing.

B. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions occur before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.

C. Begin curing after finishing concrete, but not before free water has disappeared from concrete surface.

D. Cure formed and unformed concrete for at least seven days as follows:

1. Moisture Curing: Keep surfaces continuously moist with water or continuous water-fog spray or absorptive cover, water saturated and kept continuously wet.
2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.

3.06 FIELD QUALITY CONTROL

A. Testing Agency: The Owner will engage a qualified independent testing and inspecting agency to sample materials, perform tests, and submit test reports during concrete placement. Tests will be performed according to ACI 301.
   1. Testing Frequency: One composite sample for each day's pour of each concrete mix exceeding 5 cu. yd, but less than 25 cu. yd, plus one set for each additional 50 cu. yd. or fraction thereof.
   2. Testing Frequency: At least one composite sample for each 100 cu. yd. or fraction thereof of each concrete mix placed each day.
   3. Test Cylinders: A minimum of four (4) shall be cast for each composite sample. Test one (1) at seven (7) days, two (2) at twenty-eight (28) days and hold one (1) as a spare.

END OF SECTION 03310

SECTION 06100 - ROUGH CARPENTRY

PART 1 - GENERAL

1.01 SUMMARY

A. Provide rough carpentry work:

1. Wood framing.
2. Sheathing.
4. Nailers and blocking, furring, and sleepers.

1.02 SUBMITTALS

A. Submit for approval product data.

1.03 QUALITY ASSURANCE

A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Lumber, finished 4 sides, 15% maximum moisture content:

1. Light framing: Construction grade Douglas Fir or Southern Pine, appearance grade where exposed.
2. Structural framing and timbers: No. 1 grade Douglas fir or southern pine, appearance grade where exposed.
3. Boards: Construction grade.

B. Wood for nailers, blocking, furring and sleepers: Construction grade, finished 4 sides, 15% maximum moisture content. Pressure preservative treat items in contact with roofing, flashing, waterproofing, masonry, concrete or the ground.

C. Plywood, APA rated for use and exposure:

1. Storage shelving: APA A-B interior.

2. Wall sheathing: APA sheathing, C-D plugged, Exterior.
3. Backing panels: APA C-D plugged interior with exterior glue, fire-retardant treated, 3/4" thick.

D. Self-adhering, polyethylene-faced sheet underlayment: ASTM D 1970, 40 mils thick minimum, consisting of slip-resisting polyethylene-film reinforcing and top surface laminated to SBS-modified asphalt adhesive, with release-paper backing; cold applied; W.R. Grace & Company 'Ice and Water Shield' or approved equal.

E. Wood treatment:

1. Preservative treatment: Pressure-treated with waterborne preservatives, to comply with AWPB LP-2 or LP-22, as applicable. Kiln dry to 15% max. moisture content. Treat wood exposed to deterioration by moisture, such as items in contact with roofing, flashing, waterproofing, masonry, concrete, or the ground. Treat wood subject to insect attack.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Provide nailers, blocking and grounds where required. Set work plumb, level and accurately cut.

B. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction. Coordinate with work of other sections.

C. Comply with manufacturer's requirements for cutting, handling, fastening and working treated materials.

D. Restore damaged components. Protect work from damage.

END OF SECTION

SECTION: 07100 WATERPROOFING & SEALANTS

PART 1 GENERAL

1.01 RELATED DOCUMENTS:

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

1.02 SCOPE:

This section includes waterproofing and damp proofing of retaining walls below grade, under slabs on grade, below toppings of suspended slabs, under and behind ceramic tile, through walls and at faces of walls, masonry waterproofing, and sealant caulking, and related items.

1.03 RELATED WORK:

A. Cast in Place Concrete
B. Windows and Doors
C. Concrete Floors
D. Walls

1.04 SUBMITTALS

Submit technical data on proposed materials, colors if applicable and MSDS sheets. See section 01300 for submittal requirements.

PART 2 MATERIALS

2.01 ADHESIVES: Shall be Nerva-Plast by Rubber and Plastic Compound Company and Bituthane 3000 by W.R. Grace or equal.

2.02 THRU WALL FLASHING: See section 04810 Unit Masonry Assemblies

2.03 ASPAHLT COATED COPPER FLASHING: See section 04810 Unit Masonry Assemblies

2.03 BRICK MASONRY WATERPROOFING: See section 04810 Unit Masonry Assemblies.

2.05 UNDER FLOOR SLABS: Shall be 15 mil Xtreme Vapor Barrier by Tex Trude. Seal seams and penetrations with Xtreme Mastic.

2.06 VERTICAL CONCRETE BELOW GRADE: Shall be Seal Mastic by W R Meadows.

2.07 VERTICAL CONCRETE ABOVE GRADE: Shall be Master Protect HB300 Acrylic Waterproofing by Sika.

2.08 AIR/MOISTURE INFILTRATION BARRIER: See section 07272 Fluid Applied

Air Barrier

2.09 SEALANTS

A. Window and door sealant shall be #795, Silicone by Dow Corning or equal products by GE.

B. Masonry sealant shall be #790 Silicone by Dow Corning or equal products by GE.

C. Ceramic tile, toilet fixture joints: Silicone rubber; Tremco Proglaze or Dow 786 or approved equal.

D. Seam sealant for small metal to metal joints; Tremco Seam Sealer or approved equal.

E. Fire caulk shall be those manufactured by Dow Corning or equal.

2.10 BACKER ROD: Shall be closed cell polyethylene rod.

2.11 PRECOMPRESSED EXPANDING FOAM SEALANT: Emseal joint systems or equal.

PART 3 INSTALLATION

3.01 UNDER FLOOR SLABS ON GRADE: Vapor barrier shall be continuous under all interior slabs on grade and shall be lapped 12 inches with joints taped. Carry membrane up between pre-molded expansion joint material and wall at all junctions. All holes from dowels and pipes projecting through membrane shall be patched over pipe and pulled up tight and sealed with mastic to provide a watertight installation. Turn up vapor barrier at perimeter of slab to provide a continuous vapor barrier with no gaps.

3.02 VERTICAL CONCRETE: Brush apply above grade waterproofing. This surface will be exposed and should present a smooth painted surface free of brush marks, globs of material and dirt. Apply below grade waterproofing per manufacturer's recommendations. Clean the vertical surface before applying and keep clean until material sets.

3.02 SEALANTS:

A. Apply #790 sealant around perimeter of windows and outside doorframes and as indicated in prepared recesses. Flow on smoothly for even surface. Apply a "beauty bead" to the exterior. Color to be selected by Architect.

B. Apply #795 sealant to expansion joints of masonry and where detailed and noted. Install backer rod, mask tape edges of joints. Clean and prime recesses according to manufactured data. Apply sealant evenly and tool joint

within 10 minutes of application and remove masking tape immediately. Color shall be as selected by Architect.

END OF SECTION

SECTION 07200 – BUILDING INSULATION

PART 1 - GENERAL

1.01 SUMMARY

A. Provide building insulation of board, blanket and batt types as applicable:

1. Interior partitions – un-faced sound attenuation fire blanket.
2. Exterior stud walls – foil-scrim-kraft-faced thermal batt.

1.02 SUBMITTALS

A. Submit for approval product data, test reports.

1.03 QUALITY ASSURANCE

A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Blanket type insulation: Un-faced semi-rigid spun mineral fiber sound attenuation fire blanket; ASTM C655, Type I & ASTM E136; United States Gypsum Company Thermafiber SAFB or approved equal.

B. Batt type insulation: Foil-scrim-kraft-faced mineral-fiber thermal insulation; ASTM C665, Type III, Class A (flame spread of 25 or less), Category 1; Owens Corning Fiberglass Corp or approved equal.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction. Coordinate with work of other sections. Provide full thickness in one layer over entire area, tightly fitting around penetrations.

B. Protect installed insulation.

END OF SECTION

SECTION 07900 - JOINT SEALERS

PART 1 - GENERAL

1.01 SUMMARY

A. Provide sealants at intersection of building components.

1.02 SUBMITTALS

A. Submit for approval samples, product data.

1.03 QUALITY ASSURANCE

A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Joints designed for expansion and movement conditions at site:

1. Exterior joints on vertical surfaces: Non-sag polyurethane; Pecora Dymonic or Tremco Dymeric or approved equal.
2. Ceramic tile, toilet fixture joints: Silicone rubber; Tremco Proglaze or Dow 786 or approved equal.
3. Interior joints, joints at mirrors: Acrylic latex; Tremco Acrylic Latex or approved equal.
4. Seam sealant for small metal to metal joints; Tremco Seam Sealer or approved equal.
5. Precompressed expanding foam secondary sealant; Emseal Greyflex or approved equal.
6. Primers, bond breakers, and backer rods compatible with sealant and adjacent surfaces.
7. Fire-retardant sealant; refer to Division 7 Section “Firestopping”.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Examine substrate; report unsatisfactory conditions in writing. Beginning work means acceptance of substrates.

B. Provide sealants in colors as selected from manufacturer's standards. Sealants shall match adjacent surfaces unless otherwise specified.

C. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections. Clean and prime joints, and install bond breakers, backer rods and sealant as recommended by manufacturers.

D. Depth shall equal width up to 1/2" wide; depth shall equal 1/2 width for joints over 1/2" wide, except fill joints completely with fire-retardant products.

E. Cure and protect sealants as directed by manufacturers. Replace or restore damaged sealants. Clean adjacent surfaces to remove spillage.

END OF SECTION

SECTION 08710 – FINISH HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes items know commercially as Finish Hardware required for swing, sliding and folding doors, except special types of unique and non-matching hardware specified in the same section as the door and/or frame.

B. Related Work: Hardware supplier shall check with other sections of this specification for related work such as **PULTRUDED FIBERGLASS DOORS AND FRAMES**, and toilet partitions and accessories or any other items that may relate to work in this section.

C. All hardware shall comply with rules of the Florida Building Code, the American National Standard for Building and Facilities (ANSI A117.1), and the Americans with Disabilities Act (Federal Register 28 CFR Part 36, July 26, 1991).

D. Doorknobs or levers to hazardous areas shall be provided with "*tactile*" identifications for the visually impaired.

E. The function of locking devices shall be such as will maintain maximum security from unauthorized or illegal entry during unoccupied hours.

1.02 SUBMITTALS

A. The finish hardware supplier shall, after award of a formal contract, submit to the Architect, a complete typewritten pdf of the proposed finish hardware schedule for approval. This schedule shall be prepared using the "*Sequence and Format for the Hardware Schedule*" as approved and recommended by the Door and Hardware Institute (DHI). The finish hardware schedule to shall be coordinated with SRIA staff or the owner's representative. The Santa Rosa Island Authority (SRIA) will review the hardware submittal and develop the keying schedule. The keying schedule along with any review comments will be sent to the Architect for submission to the Contractor in combination with the Architect's review and/or approval. After approval of the schedule, the hardware supplier shall provide the approved schedule to the Architect for file and distribution purposes. The hardware supplier will not order hardware until an approved schedule has been received and reviewed with concurrence.

B. When submitting schedules for approval, include two (2) manufacturers' cut sheets on each hardware item proposed.

1.03 QUALITY ASSURANCE

A. Manufacturers and model numbers listed are to establish a standard of quality. Provide products from one of the listed manufacturers only. No substitutions will be accepted. **New doors and frames on this project are Pultruded Fiberglass Doors. Coordinate door finish hardware with fiberglass doors.**

B. The Finish Hardware supplier shall furnish to the General Contractor all finishing hardware as hereinafter specified or as obviously required to complete the project. Items not specifically mentioned but necessary to complete the work shall be furnished, matching in quality and finish to the items hereinafter specified or described. Should an opening be omitted, this supplier shall provide finish hardware equal to that specified for similar or adjacent openings and as approved by the Architect for function and quality. No extras will be allowed or omitted but required items. Clarify all questions with the Architect in writing, prior to bid opening.

C. Experience: Hardware shall be furnished by those having experience in the builders hardware field, competent to correctly interpret the plans, and specifications; to furnish appropriate technician regularly employed by them to immediately service the job as required. This technician shall operate out of a stocking builders hardware warehouse located within 50 miles of Pensacola Beach, Fl, in order to ensure immediate servicing of the project. This supplier shall make two scheduled visits to the job site during the application of the finished hardware. Prior to each visit, he shall notify the General Contractor and the Architect in writing of his intention to visit the job so that either or both parties may have representatives on the job to discuss any hardware problems encountered. In addition, this supplier shall immediately service the job upon the call of the General Contractor and/or the Architect. Upon the completion of the job and prior to the final construction inspection, this supplier shall lubricate and adjust all hardware according to the manufacturer's recommendations. These service requirements shall be demanded and strictly enforced by the Architect.

D. Fire Rated Openings: Provide hardware for fire-rated openings in compliance with N.F.P.A. Standards No. 80 and the National Electrical Code (NEC) requirements. Provide only hardware which has been tested and listed by Underwriters Laboratories, Inc., for types and sizes of doors required and complies with requirements of door and door frame labels.

1.04 DELIVERY, STORAGE AND HANDLING

A. Marking and Packaging: Hardware shall be delivered to the project site in the manufacturer's original packages. Each article of hardware shall be individually packaged in the manufacturer's substantial commercial carton or container, properly marked or labeled to be readily identifiable with the permanent approved hardware schedule.

B. Delivery: All items of Finish Hardware shall be received at supplier's warehouse, checked for correctness of product, strikes, brackets, screws and miscellaneous items, etc. Hardware is to be accumulated at supplier's warehouse and as far as practical be delivered in one complete delivery by supplier's own personnel. Contractor shall refuse drop or factory shipments. Supplier is to coordinate delivery with Contractor and Contractor is to check all hardware items at time of delivery with personnel from supplier's office.

C. Inventory: Hardware is to be inventoried jointly with representatives of the hardware supplier and the contractors hardware installer until each is satisfied that the count is

correct.

D. Handling: Provide secure lock-up for hardware delivered to the project, but not yet installed. Control the handling and installation of hardware items which are not immediately replaceable so that the completion of the work will not be delayed by hardware losses, both before and after installation.

1.05 WARRANTY

A. Provide manufacturers' written warranties on all items, except overhead closers, against failure due to defective materials and workmanship for a period of one year commencing on the date of Substantial Completion. In the event of such failure, promptly repair or replace with no additional costs to Owner.

B. Provide manufacturer's written warranties on overhead closers against failure due to defective materials and workmanship for a period of five years commencing on the date of Substantial Completion. In the event of such failure, promptly repair or replace the closer at no additional costs to Owner.

1.06 MAINTENANCE

A. Maintenance Service: Supplier shall have in his employment a qualified technician to be called upon to service all of the hardware items supplied.

B. Special Tools: Provide special tools, such as spanner wrenches, dogging keys and etc. required to service and adjust hardware items.

PART 2 - PRODUCTS

2.01 MANUFACTURERS LISTED AND APPROVED EQUALS

A. Hinges/Butts:

Hager	Stanley	McKinney
BB1199	FBB199	T4A3386
BB1168	FBB168	T4A3786
BB1191	FBB191	TA2314
BB1279	FBB179	TA2714

B. Cylindrical Locks and Lever Design:

Falcon	Schlage	Stanley
B Series	AL Series	7KC Series

Falcon	Schlage	Stanley
D	SAT	15D

C. Deadlocks / Deadbolts:

Falcon	Schlage	Stanley
D111	B663	83T7L

D. Panic Devices (Fire Rated if required):

Von Duprin
98NL-32D

Von Duprin
996L Trim - Fire Doors

E. Closers:

LCN	Norton	Sargent
4041	7500	281

F. Automatic Flush Bolts: Wood Doors (NO WOOD DOORS – FIBERGLASS DOORS & FRAMES)

McKinney	Hager	DCI
FB13W	296W	962

Metal Doors: (NO WOOD DOORS – FIBERGLASS DOORS AND FRAMES)

Ives	Hager	Rockwood
FB51P	292D	1842

G. Manual Flush Bolts:

Ives	Hager	Rockwood
458	282D	555

H. Push Plates (4" x 16"):

Ives	Hager	Rockwood
8200	30S	70C

I. Pull Plates (4" x 16" x 8" ctc):

Ives	Hager	Rockwood
8302-8	33E	107 x 70C

J. Kick plates (.050" Thickness):

Ives	Hager	Rockwood
8400	190S	050

K. Dome Stops (Machine Screws x Expansion Shield):

Ives	Hager	Rockwood
436/438	241F/243F	441/443

Heavy Duty Door Stops

Ives	Rockwood	Hager
FS185	466	269F
FS18L	467	

L. Wall Bumpers:

Rockwood	Ives	Hager
400	WS401CVX	230W

M. Floor Stop and Holder:

Ives	Hagar	Rockwood
444	267F	471

446	268F	473
443	255W	475
445	256W	477

N. Thresholds:

NGP	Pempko	Hagar
896	2005AV	520SAV

O Weatherstripping:

Hager	Pemko	NGP
891SV	303AV	160AV
726S	S88D	726S

P Door Sweeps:

NGP	Pemko	Hagar
200NA	315CN	750SAN

Q Rain Drip:

NGP	Pemko	Hagar
16AD	346C	810S

2.02 MATERIALS

A. Cylindrical Locks:

1. Locks on doors not requiring panic devices shall be ANSI 156.2, Series 4000, Grade 2 bored locks with 2 ¾" backset. Functions shall be as indicated in the hardware schedule. The Men and Women's Restroom doors will have mortise locks and no panic devices.
2. The Custodial room door and Electrical room door shall have rim panic with dogging function, no outside trim, rim cylinder only that retracts a latch bolt from the device into a strike on the fiberglass door frame. These two doors shall allow the doors to be locked from the outside while always opening from the inside with under 15 pounds of pressure.

B. Panic Devices: Approved

1. Panic devices on exit doors (non fire rated) shall be rim type with dogging function meeting the following specifications: Type 1, Function 03, Grade 1. Exterior trim shall be cylinder x pull trim. Approved Devices:
   Von Duprin 98 Series 990NL

2. Manufacturer's standard dogging feature is required on all exit devices used on non-fire rated doors. Cylinder dogging is not acceptable.

C. Closers:

1. All door closers shall be mounted with the following:
   a) Parallel arm mounts.
   b) Sex nuts and bolts (for all wood doors and any metal doors not having reinforcement for door closers). Bolt holes shall be located with template and drilled prior to hanging doors.
   c) Backcheck function (adjusted properly).
2. All door closers shall be mounted for 180 degree opening wherever wall conditions permit.
3. All closers shall have a written 10-year warranty.

Approved List:

ALL FIBERGLASS DOORS
LCN P4041-EDA
Norton 7500 – P Rigid Arm
Sargent 281-P10

D. Stops: All doors shall have floor or wall stops.

2.03 MANUFACTURER

A. Obtain each type of hardware (Latch and Locksets, Closers, Panic Devices, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.

2.04 FINISHES

A. Doors, frames and hardware are considered exterior doors in a marine environment. Doors and frames are pultruded fiberglass.

B. Provide matching finishes for hardware units at each door opening, to the greatest extent possible, and except as otherwise indicated. Reduce difference in color and texture as much as commercially possible where the base metal; or metal forming process is different for individual units of hardware exposed at the same door of opening. In general, match items to the manufacturer's standard finish for the latch and lock set (or push-pull units if no latch sets used) for color and texture.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness and other qualities complying with manufacturer's standards, but in no case less than specified for the applicable units of hardware by referenced standards.

C. The designations used in schedules and elsewhere to indicate hardware finishes are those listed in ANSI A156.18 "Materials and Finishes Standards", including coordination with the traditional U.S. Finishes shown by certain manufacturers for their products. Finishes shall be as follows:

Butts Exterior	626
Butts Interior	652
Locks	626

Panic or Exit Devices	*630*
Closers	689
Threshold	Aluminum
Push and Pull and Kick plates	630
All other items of hardware	626

Note: The use of 628 aluminum is only acceptable for thresholds and weather-stripping.

2.05 KEYING

A. All locks shall be equipped with 7-pin Falcon interchangeable cores and keyed to the existing SRIA System (no substitutions). All doors shall have a locking capability from the exterior.

B. All cylinders must have black-keyed temporary cores for use as a construction keying system. Temporary cores remain the property of the supplier and must be returned at the time permanent cores are installed.

C. Install all Falcon I.C. mortise (threaded) cylinders with proper Falcon interchangeable core installation tool (Tool #1407).

D. Hardware supplier shall consult the Architect and Locksmith Department of the SRIA to secure written approval of the complete keying layout prior to placing lock order with factory. The keying schedule will be done by the SRIA maintenance staff. All permanent keys and keying are to be completed by Falcon Lock Company at the factory using "Embossed" Falcon original key blanks. This is to ensure that the integrity and security of the system is maintained.

E. All factory cut keys to be stamped with key symbol only. Provide 1-key per core.

F. The Supplier shall furnish 20 extra Falcon Key Blanks and supply cores for new keying.

G. All permanent cores and keys shall be identified for the specific project and marked for the correct opening. Cores and keys are to be delivered to:

Santa Rosa Island Authority

2.06 FASTENERS

A. Furnish all Finish Hardware with all necessary screws, bolts and other fasteners of suitable size and type to anchor the hardware in position for long life under hard use. **(Other fasteners that are not factory supplied will void manufacturer's warranty and will not be acceptable.)**

B. **Provide sex bolts for all panic or exit devices and door closers in wood doors**. The use of sex bolts does not negate the requirement for proper reinforcement of doors and frames.

C. All fastenings shall harmonize with the hardware in material & finish.

D. The architectural hardware consultant shall verify the use of proper fasteners and hole sizes in installation during site visits as required under “Quality Assurance” of this section.

E. All doors shall be pre-machined for receipt of hardware per door specifications. Pilot holes shall be drilled for lock and hinge mounting screws in wood doors.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Mount hardware units at heights indicated in "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames" by Door and Hardware Institute (DHI), except as otherwise specifically indicated or to comply with requirements of governing regulations, requirements for the handicapped or if otherwise directed by the Architect.

B. Install fire rated doors in accordance with N.F.P.A. – 80.

C. All hardware shall be installed by tradesmen skilled in the application of commercial grade hardware.

D. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Securely fasten all parts to be attached. Fit faces of mortised parts snug and flush. Make sure all operating parts move freely and smoothly without binding, sticking or excessive clearance. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, the hardware shall be removed and stored prior to the painting or finishing. Items shall then be reinstalled only when the finishes have been completed on the surface to which is to be applied.

E. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

F. At exterior doors and elsewhere as indicated, set thresholds in a bed of sealant as specified in Section 07900 to completely fill concealed voids and exclude moisture from every source. Do not plug drain holes or block weeps. Remove excess sealant.

3.02 ADJUSTING AND CLEANING

A. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Lubricate moving parts with type lubrication recommended by manufacturer (graphite-type if no other recommended). Replace units, which are damaged or cannot be adjusted and lubricated to operate freely and smoothly as intended for the application made.

B. Clean adjacent surfaces soiled by hardware installation.

C. Final Adjustment: Whenever the hardware installation is made more than one month prior to acceptance or occupancy of a space or area, return to the work site during the week prior to acceptance or occupancy, and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

3.03 PROTECTION

A. Whenever hardware is located in areas where it may be subject to damage during construction by handling, cleaning, etc., (i.e., painting, cleaning of bricks) it shall be protected and/or removed from its location until hazardous condition is terminated.

3.04 HARDWARE SCHEDULE

Hardware Set #1 (Exterior rated Men and Women's Restroom Doors and Frames hardware. New doors and frames will be pultruded fiberglass doors and frames. Doors are in a marine environment and are to have stainless steel hardware finishes. The restroom doors should be mortise keyed deadbolt locks on the exterior with no locking mechanism on the inside.)

Each Opening to Have:

3	HINGE, 4 1/2, HVY WT	5BB1HW X 4.5 X 4.5	630
1	MORTISE DEADBOLT LOCK	L400 Small Case Mortise Deadbolt Lock	626 FAL
1	MORTISE CYLINDER CORE	C607 X GMK X RESTRICTED KEYWAY	626 FAL
1	CYLINDRICAL DEAD LOCK	D111H X 30-256 X 10-094 X 7-PIN X 50-231 X BLK	626 FAL
1	CLOSER, PARALLEL ARM	4040XP.EDA.689.TBSRT	689 LCN
1	PUSH PLATE (EXTERIOR)	Legge 500 Series Push Plate	US32D
2	KICK PLATE – EA. SIDE OF DOOR	8400 12 H X 34 W X B-CS	US32D IVE
1	PULL (INTERIOR)	Legge 500 Series Pull Handle	US32D
3	SILENCER	Q146-1	STE
1	FLOOR STOP	FS18L	SS / RUBBER IVE
1	WEATHER STRIPPING	8770N 8' PSA	ZER
2	DOOR SWEEP	39A X 36 W	ZER
1	THRESHOLD	265A X 36	ZER
1	GASKETING	188S-BK 20' PSA	ZER

Hardware Set #2 (Exterior rated Custodial Room Door and Frame hardware. New Custodial Room door and frame will be a pultruded fiberglass door and frame. Door is in a marine environment and is to have stainless steel hardware finishes. The Custodial and Electrical Room doors are to have panic hardware on the inside. Door hardware similar for Custodial and Electrical Room doors. The Electrical Room door does not have a door threshold.)

Each Opening to Have:

3	HINGE, 4 1/2, HVY WT	5BB1HW X 4.5 X 4.5	630
1	MORTISE DEADBOLT LOCK	L400 Small Case Mortise Deadbolt Lock	626 FAL
1	MORTISE CYLINDER CORE	C607 X GMK X RESTRICTED KEYWAY	626 FAL
1	CYLINDRICAL DEADBOLT LOCK	D111H X 30-256 X 10-094 X 7-PIN X 50-231 X BLK	626 FAL
1	SVR EXIT DEVICE	HH-9827EO X 299F X 304L X 3-0 X 7-0 H	US28 VON
1	CLOSER, PARALLEL ARM	4040XP.EDA.689.TBSRT	689 LCN
1	MORTISE DEADBOLT W/ LEVER	Schlage PM Series Grade 1 Mortise Deadbolt	US32D
2	KICK PLATE – EA. SIDE OF DOOR	8400 12 H X 34 W X B-CS	US32D IVE
3	SILENCER	Q146-1	STE
1	FLOOR STOP	FS18L	SS / RUBBER IVE
1	WEATHER STRIPPING	8770N 8' PSA	ZER
2	DOOR SWEEP	39A X 36 W	ZER
1	THRESHOLD	265A X 36	ZER
1	GASKETING	188S-BK 20' PSA	ZER

Hardware Set #3 (Exterior rated Electrical Room Door and Frame hardware. New door and frame will be pultruded fiberglass doors and frames. Door is in a marine environment and is to have stainless steel hardware. The Custodial and Electrical Room doors are to have panic hardware on the inside. These two doors are similar in hardware except the Electrical Room door does not need a door threshold.)

Each Opening to Have:

3	HINGE, 4 1/2, HVY WT	5BB1HW X 4.5 X 4.5	630
1	MORTISE DEADBOLT LOCK	L400 Small Case Mortise Deadbolt Lock	626 FAL
1	MORTISE CYLINDER CORE	C607 X GMK X RESTRICTED KEYWAY	626 FAL
1	CYLINDRICAL DEADBOLT LOCK	D111H X 30-256 X 10-094 X 7-PIN X 50-231 X BLK	626 FAL
1	SVR EXIT DEVICE	HH-9827EO X 299F X 304L X 3-0 X 7-0 H	US28 VON
1	CLOSER, PARALLEL ARM	4040XP.EDA.689.TBSRT	689 LCN
1	MORTISE DEADBOLT W/ LEVER	Schlage PM Series Grade 1 Mortise Deadbolt	US32D
2	KICK PLATE – EA. SIDE OF DOOR	8400 12 H X 34 W X B-CS	US32D IVE
3	SILENCER	Q146-1	STE
1	FLOOR STOP	FS18L	SS / RUBBER IVE
1	WEATHER STRIPPING	8770N 8' PSA	ZER
2	DOOR SWEEP	39A X 36 W	ZER
1	GASKETING	188S-BK 20' PSA	ZER

END OF SPECIFCATION

SECTION 08174 - PULTRUDED FIBERGLASS DOOR

PART 1 GENERAL

1.01 SECTION INCLUDES

A. AF-100 Smooth Pultruded Fiberglass Door.
B. AF-100 Smooth Pultruded Fiberglass Door Installed in AF-150 Pultruded Fiberglass Framing.

1.02 RELATED SECTIONS

A. Section 08 01 17 – Operation and Maintenance of Integrated Door Opening Assemblies.
B. Section 08 06 71 – Door Hardware Schedule.
C. Section 08 10 00 – Doors and Frames.
D. Section 08 12 16 – Aluminum Frames.
E. Section 08 42 13 – Aluminum-Framed Entrances.
F. Section 08 71 00 – Door Hardware.

1.03 REFRENCES

A. AAMA 920 – Specification for Operating Cycle Performance of Side-Hinged Exterior Door Systems.
B. AAMA 1304 – Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems.
C. ASTM-C203 – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation.
D. ASTM-C272 – Standard Test Method for Water Absorption of Core Materials for Sandwich Constructions.
E. ASTM-C273 – Standard Test Method for Shear Properties of Sandwich Core Materials.
F. ASTM-C518 – Standard Test Method for Steady-State Thermal Transmission Properties by Means of Heat Flow Meter Apparatus.
G. ASTM-C1363 – Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus.
H. ASTM-D1621 – Standard Test Method for Compressive Properties of Rigid Cellular Plastics.
I. ASTM-D1622 – Standard Test Method for Apparent Density of Rigid Cellular Plastics.
J. ASTM-D1623 – Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics.
K. ASTM-D1761 – Standard Test Methods for Mechanical Fasteners in Wood.
L. ASTM-D-4226 – Standard Test Methods for Impact Resistance of Rigid Poly(Vinyl Chloride) (PVC) Building Products
M. ASTM-D5116 – Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/ Products.
N. ASTM-D6670 – Standard Practice for Full-Scale Chamber Determination of Volatile Organic Emissions from Indoor Materials/ Products.
O. ASTM-E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
P. ASTM-E90 – Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.
Q. ASTM-E283 – Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

R. ASTM-E330 – Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
S. ASTM-E1886 – Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
T. ASTM-E1996 – Standard Specification for Performance of Exterior Windows, Glazed Curtain Walls, Doors and Storm Shutters Impacted by Wind Borne Debris in Hurricanes.
U. ASTM-F1642-04 – Standard Test Method for Glazing Systems Subject to Air Blast Loading
V. ASTM-G-53 - Standard Practice for Operating Light-and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials
W. NFRC 100 – Procedure for Determining Fenestration Products U-Factors.
X. NFRC 400 – Procedure for Determining Fenestration Products Air Leakage.

1.04 SUBMITTALS

A. Must comply with Section 01 33 00 – Submittal Procedures.
B. Action Submittals/ Informational Submittals.
1. Product Data.
a. Submit manufacturer's product data sheets, catalog pages illustrating the products, description of materials, components, fabrication, finishes, installation instructions, and applicable test reports.
2. Shop Drawings.
a. Submit manufacturer's shop drawings, including elevations, sections, and details indicating dimensions, tolerances, materials, fabrication, doors, panels, framing, hardware schedule, and finish.
3. Samples.
a. Submit manufacturer's door sample composed of door face sheet, core, framing and finish.
b. Submit manufacturer's sample of standard colors for door face and frame.
4. Testing and Evaluation Reports.
a. Submit testing reports and evaluations provided by manufacturer conducted by and accredited independent testing agency certifying doors and frames comply with specified performance requirements listed in Section 2.04.
5. Manufacturer Reports.
a. Manufacturer's Project References.
1. Submit list of successfully completed projects including project name, location, name of architect, type, and quantity of doors manufactured.
C. Closeout Submittals.
1. Operation and Maintenance Manual.
a. Submit manufacturer's maintenance and cleaning instructions for doors and frames, including maintenance and operating instructions for hardware.
2. Warranty Documentation.
a. Submit manufacturer's standard warranty.

1.05 QUALITY ASSURANCE

A. Manufacturer's Qualifications.
1. Continuously engaged in manufacturing of doors of similar type to that specified, with a minimum of 25 years concurrent successful experience.
2. Door and frame components must be fabricated by same manufacturer.
3. Evidence of a documented complaint resolution quality management system.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Delivery.
   1. Deliver materials to site in manufacturer's original, unopened, containers and packaging.
   2. Labels clearly identifying opening, door mark, and manufacturer.

B. Storage.
   1. Store materials in a clean, dry area, indoors in accordance with manufacturer's instructions.

C. Handling.
   1. Protect materials and finish from damage during handling and installation.

1.07 WARRANTY

A. Warrant doors, frames, and factory installed hardware against failure in materials and workmanship, including excessive deflection, faulty operation, defects in hardware installation, and deterioration of finish or construction in excess of normal weathering.

B. Standard Period.
   1. Ten years starting on date of shipment.

C. Limited lifetime
   1. Covers failure of corner joinery, core deterioration, and delamination or bubbling of door skin and corrosion of all-fiberglass products while the door is in its specified application in its original installation.

D. Finish
   1. Painted AF-100, AF-150 frames: 3 years.
   2. Thresholds do not have a finish warranty.

PART 2 PRODUCTS

2.01 COMPOSITE FIBERGLASS DOOR

A. Manufacturer listed is the basis of design. Equal or better products will be considered.
   1. Special-Lite, Inc.
      a. PO Box 6, Decatur, Michigan 49045.
      b. Toll Free (800) 821-6531, Phone (269) 423-7068, Fax (800) 423-7610.
      c. Web Site www.special-lite.com.
      d. E-Mail info@special-lite.com.

2.02 DESCRIPTION

A. Model.
   1. AF-100 Smooth Pultruded Fiberglass Door.

B. Door Opening Size.
   1. **3'-0" W x 7'-0" H**

C. Construction.
   1. Door Thickness.
      a. 1-3/4".
   2. Pultruded as one monolithic panel with integral stiles.
   3. Stiles.
      a. Seamless 9/16" thick solid FRP.
   4. Top Rail.
      a. 6" pultruded tube profile designed to fit flush and be chemically welded inside of door cavity.
   5. Bottom Rail.
      a. Standard pultruded inverted U channel designed to fit flush and be chemically welded inside the door which allows doors to be field trimmed.

b. Optional closed bottom rail.

6. Core.
   a. Polyurethane foam.
   b. Minimum 6 pcf density.
7. Face Sheet.
   a. Smooth, pultruded FRP integral to construction of door.
   b. Attachment of face sheet.
      1. Door to be pultruded as one monolithic panel.

8. Cutouts. NONE.

a. Manufacture doors with NO CUTOUTS OR WINDOWS OR LITES.

9. Hardware.

a. Pre-machine doors in accordance with templates from specified hardware manufacturers.

b. Surface mounted closures will be reinforced for but not prepped or installed at factory.

10. Reinforcements.

a. No metallic reinforcements will be allowed.

2.03 FRAMING

A. Framing

1. AF-150.
   a. Jamb Depth. Walls are 2”x4” wood studs with 5/8” GWB or tile cement board.
      1. 5-3/4".
   b. Materials.
      1. See 2.05.A.
   c. Perimeter Frame Members.
      1. ¼” thick pultruded fiberglass open throat with return.
      2. Factory fabricated.
      3. 2” or 4” face available for frame headers.
   d. Transoms and Sidelites. NONE. NO TRANSOMS OR SIDLITES.
      1. Same as perimeter frame members.
      2. Removable stop for ¼”, 5/8” or 1” glass or panels.
   e. Integral Door Stops.
      1. 5/8” x 2-1/4”.
   f. Frame Assembly.
      1. Standard knock down.
      2. Optional chemically welded consult factory for details.
   g. Frame Member to Member Connections.
      1. Corners mitered with 4” x 4” x 3/8” pultruded FRP angle reinforcement with interlocking pultruded FRP brackets.
      2. All member to member connections knocked down at factory unless chemically welded at factory requested.
      3. Provide hairline butt joint appearance.
   h. Reinforcements.
      1. Standard.
         a. ¼” thick pultruded FRP chemically welded to frame at all hinge, strike, and closer locations.
      2. Optional
         a. Aluminum, contact factory for details.
   i. Hardware

1. Pre-machine and reinforce frame members for hardware in accordance with manufacturer's standards and door hardware schedule.
2. Surface mounted closures will be reinforced for but not prepped or installed at factory.

j. Anchors:

1. Masonry.
   a. Existing concrete or block punch and dimple.
   b. Sill anchor.
   c. Concealed existing masonry anchor.
   d. Fiberglass masonry t anchor.
2. Drywall.
   a. Standard jamb anchor tuck.
   b. KD wrap.
   c. Optional punch and dimple tuck with either metal or wood studs.

2.04 PERFORMANCE

A. Pultruded Fiberglass Skin.

1. Surface Burning, ASTM-E84: Flame Spread ≤ 25, Smoke Developed ≤ 450.
2. Tensile Strength, ASTM-D638: 12,300 psi.
3. Percent Fiberglass: Minimum 50%.

B. Pultruded Structural Shapes.

1. Tensile Strength, ASTM-D638: Minimum 30,000 psi.
2. Compressive Strength, ASTM-D695: Minimum 30,000 psi.
3. Flexural Strength, ASTM-D790: Minimum 30,000 psi.
4. Tensile Strength, ASTM-D638: Minimum psi.
5. Flexural Modulus, ASTM-D790: Minimum 1.6 x 10^6 psi.
6. Short Beam Shear, ASTM-D2344: Minimum 4,500 psi.
7. Impact, Notched, ASTM-D256: Minimum 25 ft-lb/in.
8. Thermal Expansion, ASTM-D696: Maximum 8.0 x 10^{-6} psi.
9. Surface Burning, ASTM-E84: Flame Spread ≤ 25, Smoke Developed ≤ 450.

C. Stiles & Rails.

1. Fastener Withdrawal, ASTM-D1761: 894 lbs.

D. Door Core.

1. Surface Burning, ASTM-E84: Flame Spread ≤ 25, Smoke Developed ≤ 450.
2. Density, ASTM-D1622: 6.0 pcf.
3. Compressive Strength, ASTM-D1621: 139 psi.
4. Compressive Modulus = 4,527 psi.
5. Shear Strength, ASTM-C273: 84 psi.
6. Shear Modulus, ASTM-C273: 788 psi.
7. Tensile Modulus, ASTM-D1623: 136 psi.
8. Flexural Strength, ASTM-C203: 204 psi.
9. Flexural Modulus, ASTM-C203: 4,767 psi.
10. K-Factor, ASTM-C518: 0.16 Btu·in/hr·ft²·°F.
11. R-Factor, ASTM-C518: 6.25 hr·ft²·°F/Btu.
12. Water Absorption, ASTM-C272: < 0.7% by volume.

E. Door Panel.

1. Thermal Transmittance, ASTM-C1363-11: U-Factor = 0.13 Btu/hr·ft²·°F, R-Value = 7.42 hr·ft²·°F/Btu.

F. AF-150 Framing.

1. Tensile Strength, ASTM-D638: Minimum 30,000 psi.
2. Compressive Strength, ASTM-D695: Minimum 30,000 psi.
3. Flexural Strength, ASTM-D790: Minimum 30,000 psi.

4. Tensile Strength, ASTM-D638: Minimum psi.
5. Flexural Modulus, ASTM-D790: Minimum 1.6 x 10^6 psi.
6. Short Beam Shear, ASTM-D2344: Minimum 4,500 psi.
7. Impact, Notched, ASTM-D256: Minimum 25 ft-lb/in.
8. Thermal Expansion, ASTM-D696: Maximum 8.0 x 10^{-6} psi.
9. Surface Burning, ASTM-E84: Flame Spread ≤ 25, Smoke Developed ≤ 450.
10. Fastener Withdrawal, ASTM-D1761: 924 lbs.
11. Percent Fiberglass: Minimum 50%.

G. Door and 3-Sided AF-150 Frame Assembly.
1. Physical Endurance, AAMA 920-11: 2,000,000 Cycles, No Damage.
2. Thermal Transmittance, NFRC 100.
   a. Opaque Swinging Door (< than 50% glass)
      1. U-Factor = 0.23 Btu/hr·ft²·°F.
   b. Commercially Glazed Swinging Entrance Door (> than 50% glass)
      1. U-Factor = 0.41 Btu/hr·ft²·°F.
3. Air Leakage, NFRC 400, ASTM-E283.
   a. Opaque Swinging Door (< than 50% glass)
      1. 0.03 cfm/sqft @ 1.57 psf.
      2. 0.06 cfm/sqft @ 6.24 psf.
   b. Commercially Glazed Swinging Entrance Door (> than 50% glass)
      1. 0.02 cfm/sqft @ 1.57 psf.
      2. 0.05 cfm/sqft @ 6.24 psf.
4. STC and OITC, ASTM-E90: STC = 30, OITC = 28.
5. Structural Performance, ASTM E-330.
   a. Single Door, 3’0” x 7’0” overall size, mortise lock and deadbolt.
      1. ± 180 psf design pressure, pass.
6. Structural Performance, ASTM E-330.
   a. Single Door, 3’0” x 7’0” overall size, mortise lock and deadbolt.
      1. ± 100 psf design pressure, pass.
7. Impact and Cycle Test, ASTM-E1886.
   a. Single Door, 3’0” x 7’0” overall size, mortise lock and deadbolt.
      1. 9 lbs. missile @ 50 fps, minimum 2 impacts, no rips, tears, or penetrations.
      2. ± 100 psf design pressure, pass.
8. Forced Entry, AAMA 1304.
   a. Single Door, 3’0” x 7’0” overall size, mortise lock and deadbolt.
      1. 300lb Pull Test, pass.
9. Blast Test, ASTM-F1642.
   a. 6.9 psi @ 48 psi-msec, no hazard, GSA performance condition 2.
10. 20-min. (without hose) Positive Pressure Category B, UL10C and NFPA 252 Fire Door Assembly.
    a. Must be used with Special-Lite AF-150 Listed Fiberglass Frame.
    b. Maximum Size.
       1. Maximum Width: 3’0”.
       2. Maximum Height: 7’0”.
       3. Category G Edge Sealing System supplied by manufacturer and field applied.

2.05 MATERIALS

A. Fiberglass.
1. Face Sheet.
   a. See 2.04.A.
2. Stiles & Rails.
   a. See 2.04.B.

3. Framing
    a. See 2.04.C.

B. Fasteners.
1. All exposed fasteners will have a finish to match material being fastened.
2. 410 stainless steel or other non-corrosive metal.
3. Must be compatible with items being fastened.

2.06 FABRICATION

A. Factory Assembly.
1. Door and frame components from the same manufacturer.
2. Required size for door and frame units, shall be as indicated on the drawings.
3. Complete cutting, fitting, forming, drilling, and grinding of metal before assembly.
4. All cut edges to be free of burs.
5. Electrical arc welding of doors or frames is not acceptable.
6. Maintain continuity of line and accurate relation of planes and angles.
7. Secure attachments and support at mechanical joints with hairline fit at contact surfaces.

B. Shop Fabrication
1. All shop fabrication to be completed in accordance with manufactures process work instructions.
2. Quality control to be performed before leaving each department.

2.07 FINISHES

A. Door.
1. Two-component acrylic urethane enamel Gloss topcoat. (COLOR TBD BY OWNER AND ARCHITECT)
    a. Color. Color TBD by owner and architect. Submit standard physical color samples for color selection by owner and architect.
    b. Custom colors available consult manufacturer.
    c. Unique, high-solids, high-build, multifunctional coating.
    d. Low VOC, Gloss coating.
    e. Impact Resistance, ASTM-D2794: 80-102 in/lb (direct), 40-80 in/lb (reverse) @ 1.5 mils thickness.
    f. Color retention: $\Delta E < 5$ (CIE L.a.b.), Florida Exposure: 18 months
    g. Excellent chemical resistance.

B. Frame

1. Fiberglass.

2. Two-component acrylic urethane enamel Gloss topcoat. (COLOR TBD BY OWNER AND ARCHITECT)
    a. Color. Color TBD by owner and architect. Submit standard physical color samples for color selection by owner and architect.
    b. Custom colors available consult manufacturer.
    c. Unique, high-solids, high-build, multifunctional coating.
    d. Low VOC, Gloss coating.
    e. Impact Resistance, ASTM-D2794: 80-102 in/lb (direct), 40-80 in/lb (reverse) @ 1.5 mils thickness.
    f. Color retention: $\Delta E < 5$ (CIE L.a.b.), Florida Exposure: 18 months
    g. Excellent chemical resistance.

C. Aluminum Vision Lites and Louvers. NO VISION LITES OR LOUVERS.

2.08 ACCESSORIES

A. Fiberglass Vision Lites. NO VISION LITES AND NO GLAZING.
   1. Model.
      a. All Fiberglass.

B. Aluminum Vision Lites. NO VISION LITES, LOUVERS, AND NO GLAZING IN DOORS.

C. Flush Vision Panels NO VISION PANELS, GLAZING, OR LOUVERS IN DOORS.

D. Fiberglass Louvers. NO LOUVERS.

E. Hardware. Coordinate with finish hardware selection for restroom doors, custodial door, and electrical room door. The Custodial and Electrical Room doors have locking panic hardware.
   1. Pre-machine doors in accordance with templates from specified hardware manufactures and hardware schedule.
   2. Hardware Schedule. Coordinate door hardware with finish hardware schedule.
      a. As specified in Section 08 71 00.
         1. Hinges.
            a. SL-11HD.
         2. Locking Hardware. The Custodial door and Electrical Room door will have locking panic hardware and kick-plates. The Men's and Women's restrooms doors are non-locking with push plates and kick plates each side.
         3. Flush/ Surface Bolts.
         4. Door Pulls. Coordinate with finish door hardware schedule.
            a. SL-86.
         5. Push Bars. Coordinate with finish door hardware schedule. The Custodial and Electrical Room doors will have lockable panic hardware. The Men's and Women's Restroom doors will be non-locking with push and kick plates each side.
            a. None.
         6. Door Sweep.
            a. Pultruded Fiberglass by Special-Lite.
         7. Astragal.
            a. None.
         8. Mullions.
            a. None.
         9. Thresholds.
            a. Pultruded Fiberglass Saddle.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine areas to receive doors.

B. Notify architect of conditions that would adversely affect installation or subsequent use.

C. Do no proceed with installation until unsatisfactory conditions are corrected.

3.02 PREPARATION

A. Ensure openings to receive frames are plumb, level, square, and in tolerance.

3.03 ERECTION

A. Install doors in accordance with manufacturer's instructions.

B. Install doors plumb, level, square, true to line, and without warp or rack.

C. Anchor frames securely in place.

D. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by architect.
E. Set thresholds in bed of mastic and back seal.
F. Install exterior doors to be weathertight in closed position.
G. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by architect.
H. Remove and replace damaged components that cannot be successfully repaired as determined by architect.

3.04 FIELD QUALITY CONTROL

A. Manufacture's Field Services.
1. Manufacturer's representative shall provide technical assistance and guidance for installation of doors.

3.05 ADJUSTING

A. Adjust doors, hinges, and locksets for smooth operation without binding.

3.06 CLEANING

A. Clean doors promptly after installation in accordance with manufacturer's instructions.
B. Do not use harsh cleaning materials or methods that would damage finish.

3.07 PROTECTION

A. Protect installed doors to ensure that, except for normal weathering, doors will be without damage or deterioration at time of substantial completion.

END OF SECTION

SECTION 09250 – GYPSUM DRYWALL

PART 1 - GENERAL

1.01 SUMMARY

A. Provide Mold / Moisture-Resistant Type X and Paperless glass mat water-resistant gypsum board and support framing systems for walls.

1.02 SUBMITTALS

A. Submit for approval product data.

1.03 QUALITY ASSURANCE

A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Gypsum board: ASTM C 36, 5/8" thick normal and fire-resistant Type X as indicated or required, U.S. Gypsum Company or approved equal.

B. Abuse-resistant gypsum fiber panel: ASTM C 588, 5/8" thick, Fiberock Brand VHI (Very High Impact) Abuse-Resistant Gypsum Fiber Panel at rated and non-rated partitions, U.S. Gypsum Company or approved equal.

C. Mold / Moisture-Resistant Gypsum Panels (purple or blue-faced): Engineered to prevent mold and mildew in high-humidity coastal climates. 5/8”-inch thickness Type X, ASTM C473, ASTM D3273 with a score of 10, ASTEM G21 with a score of 0, basis of design is Gold Bond EVOLVE XP Fire-Shield Gypsum Board.

D. Paperless glass mat water-resistant gypsum board: ASTM C 36/C 36M and ASTM C 1177/C 1177M, 5/8" thick,
moisture and mold resistant with coated glass-mat facings; DensArmor Plus Paperless Interior Panel by Georgia-Pacific Building Products or approved equal.

Vestibule Walls: StoQuik Finish Sytem for Pool Rooms. Wood stud wall assembly with paperless glass mat water-resistant gypsum sheathing with Sto Mesh Reinforcing, Basecoat Sto Flexyl, StoPrime Sand, and StoQuik Finish System for Pool Rooms Finish. (Sto is the basis of design. Equal or better products will be considered.)

E. Steel studs: ASTM C 645, 20 gage screw-type steel studs, 16 inches o.c. maximum, ASTM A 653 G40, hot-dip galvanized.

F. Deep-leg deflection track: ASTM C 645, 20 gage galvanized steel top runner with 2-inch deep flanges.

G. Grid suspension system for ceilings: ASTM C 635, hot-dipped galvanized, heavy-duty direct-hung system composed of main beams and cross-furring members that interlock, U.S. Gypsum Company or approved equal.

H. Glass Mat Gypsum Panel: Core Type X. water vapor transmission > 25 US Perms. For sheathing. DensGlass by Georgia-Pacific Building Products or approved equal.

I. Joint reinforcement for paper-faced gypsum board: ASTM C 587, paper tape and ready-mixed vinyl compound.

J. Joint reinforcement for glass-mat-faced gypsum board: ASTM C 475/C 475M, 2” wide 10-by-10 fiberglass mesh tape and ready-mixed joint compound; ToughRock Tape and ToughRock Ready Mix All-Purpose Joint Compound by Georgia-Pacific Building Products or approved equal.

K. Accessories: ASTM C 1047, galvanized steel, Sheetrock Dur-A-Bead corner beads, No. 200 series metal trim, No. 093 zinc control joints, U.S. Gypsum or approved equal.

L. Rubber Base: Roppe 4” Rubber (Match Existing Color: Architect to select color from samples)

M. Acoustical sealant: U.S. Gypsum Acoustical Sealant or approved equal.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Comply with ASTM C754, ASTM C844, ASTM C843 and manufacturer's instructions and recommendations. Maintain environmental conditions within the limits prescribed by manufacturer.

1. Do not allow gypsum base to fade from exposure to light.
2. Erection Tolerance: No more than 1/16-inch offsets between planes of gypsum base faces, and 1/8 inch in 8 feet for level, plumb, warp, and bow.

B. Space framing at 16" O.C., unless indicated otherwise. Terminate walls at least 6" above ceilings except for sound or fire-rated partitions which terminate at underside of deck.

C. Install supplementary framing, blocking, and bracing to support fixtures, equipment services, heavy trim, furnishings, or similar construction.

D. Isolate partition framing and wall furring where they abut structure, except at floor. Install slip-type joints at head of assemblies that avoid axial loading of assemblies and laterally support assemblies. Use deep-leg deflection track where indicated. Seal joints between edges and abutting structural surfaces with acoustical sealant.

E. Frame door openings to comply with GA-600, unless otherwise indicated. Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.

1. Install two studs at each jamb, unless otherwise indicated.
2. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch

clearance from jamb stud to allow for installation of control joint.

3. Extend jamb studs through suspended ceilings and attach to underside of floor or roof structure above.

F. Provide sound attenuation blankets within assemblies where indicated.

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

H. On partitions/walls, apply gypsum base panels vertically (parallel to framing) unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.

I. Provide metal trim wherever edge of base would be exposed and at locations recommended by manufacturer.

END OF SECTION 09250

SECTION 09270 – CEMENT BACKER BOARDS

PART 1 - GENERAL

1.01 SUMMARY

A. Provide cement backer boards including metal support systems:

1. Interior walls and partitions to receive thin-set wall tile.

1.02 SUBMITTALS

A. Submit for approval product data.

1.03 QUALITY ASSURANCE

A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

B. Tolerances: Not more than 1/16" difference in true plane at joints between adjacent boards before finishing. No gaps or voids between gypsum board units or between drywall and adjacent work, unless detailed otherwise. Not more than 1/8" in 10' deviation from true plane, plumb and level in finished work.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Backer boards: 5/8” thickness, glass mesh reinforced portland cement backer board; DUROCK Cement Board, U.S. Gypsum or approved equal. Use 1 5/8” specialized cement board screws with a wafer head similar to Grip-Rite that are corrosion resistant to secure the cement tile backer board to wood studs. Screw spacing is every 8” along studs and blocking.

B. Steel studs: ASTM C 645, 20 gage screw-type steel studs, 16 inches o.c., ASTM A 653 G40, hot-dip galvanized.

D. Joint tape: DUROCK akali-resistant glass-fiber tape.

E. Accessories: DUROCK screws, corrosion-resistant, 8-gage, wafer heads with countersinking ribs.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Comply with ASTM C840 and GA 216; except as otherwise indicated, extend fire-rated partitions to underside of deck above ceiling and extend other partitions at least 6" above ceilings.

B. Install framing system at 16" o.c., include blocking for grab bars, accessories and similar items.

C. Provide fire-rated systems where indicated and where required by authorities having jurisdiction.

D. Install boards vertically (parallel to framing). Do not allow butt-to-butt joints and joints that do not fall over framing members.

E. Install cement backer board panels with ¼" open space where panels abut other construction or penetrations.

F. Install trim and joint treatment in strict compliance with manufacturer's instructions and recommendations.

END OF SECTION

SECTION 09300 - TILE

PART 1 - GENERAL

1.01 SUMMARY

A. Provide ceramic tile work.

1.02 SUBMITTALS

A. Submit for approval samples, product data.

1.03 QUALITY ASSURANCE

A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 - PRODUCTS

2.01 MATERIALS

A. FLOOR TILE: Through Body Porcelain Floor Tile Edge, 12”x 24” x 5/16” with StepWise slip resistance by Florida Tile. Florida Tile is the basis of design, equal or better will be considered. Colors to be selected by architect. Provide 6”x12” cove base, 1x6 cove base outcorners, and transition components for full floor and wall tile job.

B. WALL TILE: Color Body Glazed Porcelain 3.75” x 12” x 5/16” by Florida Tile.

C. Trim: Schluter System Stainless Steel products for **outside corners, transitions between tile and concrete or decking**, and to **cap the top of wainscot wall tiling**.

E. Thresholds: Group A marble, ASTM C 503.

F. Setting Methods:

1. Porcelain tile floors:
   a) Portland cement mortar setting bed (TCA Method F112).
2. Porcelain tile walls:
   a) Thin set latex-Portland cement mortar (TCA Method W202). Bonding agent as necessary.
4. Grout:
   a) Porcelain tile: Latex Portland cement, ANSI A118.6, color shall match tile as selected by Architect.
5. Schluter Tile system:
   a) Schluter – Jolly Finishing and edge-protection for outside wall corners, tops and edges.

PART 3 - EXECUTION

3.01 INSTALLATION

A. ANSI Tile Installation Standards: Comply with parts of ANSI A108 Series "Specifications for Installation of Ceramic Tile" that apply to types of setting and grouting materials and to methods indicated in ceramic tile installation schedules.

B. TCA Installation Guidelines: TCA's "Handbook for Ceramic Tile Installation." Comply with TCA installation methods indicated in ceramic tile installation schedules.

C. Lay tile in grid pattern with alignment of floor, base, walls and trim grids. Layout to provide uniform joint widths and to minimize cutting; do not use less than 1/2 tile units.

D. Provide marble threshold at all conditions where tile floor meets other flooring material.

E. Provide sealant joints where recommended by TCA and approved by Architect. Provide joint sealant at inside corners and at door frames.

F. Grout and cure, clean and protect.

END OF SECTION 09300

SECTION 09900 – PAINTING

PART 1 – GENERAL

1.01 SUMMARY

A. Provide painting and surface preparation for all unfinished interior and exterior surfaces, including electrical and mechanical equipment.

1.02 SUBMITTALS

A. Submit for approval samples, product data, mock-ups, extra stock.

1.03 QUALITY ASSURANCE

A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 - PRODUCTS

2.01 MATERIALS

A. First-line standard products for all systems by Benjamin-Moore, Coronado, Devoe, Glidden, PPG, Pratt and Lambert, Sherwin-Williams, Tnemec, or approved equal.

B. Exterior paint systems:

1. Concrete masonry units: 100% acrylic block filler, 100% acrylic enamel (semi-gloss), 2 coats.
2. Ferrous metal: Rust inhibitive metal primer, 100% acrylic enamel (high gloss), 2 coats.
3. Galvanized metal: Galvanized metal primer, 100% acrylic enamel (high gloss), 2 coats.
4. Exterior exposed Structural Steel (where shown on drawings)
   A. Factory primed with TNEMEC prime coat 378, Chemprime 37H.
   B. Two coats TNEMEC Series 1029 Endurotone (2.3 mils each coat). Any touch up in the field to be done by a TNEMEC Factory representative.

C. Interior paint systems:

1. Veneer plaster or Gypsum Board: Acrylic latex primer, acrylic latex enamel (gloss), 2 coats.
2. Concrete masonry units: 100% acrylic block filler, acrylic latex enamel (semi-gloss), 2 coats.
3. Concrete masonry units (heavy duty): epoxy block filler, 2-component epoxy enamel (high-gloss), 2 coats.
4. Wood for natural transparent finish: Sanding sealer, waterborne clear-satin varnish, 2 coats.
5. Ferrous metal: Rust inhibitive metal primer, 100% acrylic enamel (high gloss), 2

coats.

6. Galvanized metal: Galvanized metal primer, 100% acrylic enamel (high gloss), 2 coats.
7. Sealed Concrete Floor: Solvent Based, Gloss, Concrete Sealer, 2coats. Slip resistant additive, one coat.
8. Epoxy Painted concrete floor Armor Seal 8100 or Aquapon 2-part water-based epoxy floor coating (2 coats 2-4 mils each).

D. Mildewcide additive:

1. Provide mildewcide additive to all interior and exterior paint. Mildewcide additive shall be chemically compatible with paint formulation and shall not adversely affect the color, texture, or durability of the coating.
2. Mildewcide additive shall be EPA registered, non-toxic, low VOC composition, and shall provide complete protection against microbial defacement of painted surfaces.
3. Provide M-1 Advanced Mildewcide as manufactured by The Jomaps Company or approved equal.

2.02 ENVIRONMENTAL CRITERIA

A. VOC Content of Paints:

1. The volatile organic compound (VOC) content of interior paints, interior primers, and anti-corrosive paints used in interior applications shall not exceed the limits defined in the Green Seal Environmental Standards for Paints (GS-11, dated 5/20/93) and Anti-Corrosive Paints (GC-03, dated 1/7/97), of Green Seal, Washington, DC. The VOC limits defined in the referenced Green Seal standards are as follows. All VOC limits are defined in grams per liter and exclude water and tinting color added at the point of sale (as determined by U.S. EPA Reference Test Method 24).

a) Flats: 50 g/L.
b) Non-Flats: 150 g/L.
c) Anticorrosive Gloss, Semi-Gloss, & Flat: 250 g/L.
d) Clear Varnish: 350 g/L.
e) Clear Lacquer: 550 g/L.
f) Floor Coatings: 100 g/L.
g) Waterproofing Sealers: 250 g/L.
h) Sanding Sealers: 275 g/L.
i) Other Sealers: 200 g/L.

PART 3 - EXECUTION

3.01 INSTALLATION

A. For areas to receive paint on concrete floors do not apply cure and seal compound to concrete slab.

B. Inspect surfaces, report unsatisfactory conditions in writing; beginning work means acceptance of substrate.

C. Comply with manufacturer's instructions and recommendations for preparation, priming and coating work. Coordinate with work of other sections.

D. Match approved mock-ups for color, texture, pattern, and coverage. Re-coat or remove and replace work which does not match.

E. Clean up, touch up and protect work.

F. Prepare concrete surfaces according to Manufacturer’s recommendations for Concrete floor sealer.

END OF SECTION 09900

SECTION 10155 - TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes toilet compartments and screens as follows:

1. Type: Solid-plastic polymer resin.
2. Compartment Style: Overhead braced, Floor to ceiling pilsters and floor anchored.
3. Screen Style: Floor and wall anchored.

1.2 SUBMITTALS

A. Product Data: For each type and style of toilet compartment and screen specified. Include details of construction relative to materials, fabrication, and installation. Include details of anchors, hardware, and fastenings.

B. Shop Drawings: For fabrication and installation of toilet compartment and screen assemblies. Include plans, elevations, sections, details, and attachments to other work.

1. Show locations of reinforcement and cutouts for compartment-mounted toilet accessories.

C. Samples for Initial Selection: Manufacturer's color charts consisting of sections of actual units showing the full range of colors, textures, and patterns available for each type of compartment or screen indicated.

1.3 PROJECT CONDITIONS

A. Field Measurements: Verify dimensions in areas of installation by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

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

1. Hadrian Toilet Partitions
2. Santana Products, Inc.
3. Hiny Hiders Partitions (by Scranton Products – Basis of Design)

2.2 MATERIALS

A. General: Provide materials that have been selected for surface flatness and smoothness. Exposed surfaces that exhibit pitting, seam marks, roller marks, stains, discolorations, telegraphing of core material, or other imperfections on finished units are unacceptable.

B. Solid-Plastic, Polymer Resin: High-density polyethylene (HDPE) with homogenous color throughout. Provide material not less than 1 inch (25 mm) thick with seamless construction and eased edges in color and pattern as follows:

1. Color and Pattern: One color and pattern in each room as selected by Architect from manufacturer's full range of Designer series colors and patterns with lightly speckled finish.

C. Pilaster Shoes and Sleeves (Caps): ASTM A 666, Type 302 or 304 stainless steel, not less than 0.0312 inch (0.8 mm) thick and 3 inches (75 mm) high, finished to match hardware.

D. Full-Height (Continuous) Brackets: Manufacturer's standard design for attaching panels and screens to walls and pilasters of the following material:
1. Material: Stainless steel.
2. NO CLEAR OVERHEAD PULL-UP BARS. CONFIRM CEILING HEIGHT AND BRACE TO CEILING.
3. Provide continuous brackets, hinges, and continuous strikes.

E. Hardware and Accessories: Manufacturer's full-height hinge for swinging door design, heavy-duty operating hardware and accessories of the following material:
1. Material: Stainless steel.
2. Full-Height Stainless steel door hinges.
3. Stainless steel latches with Occupancy Sensors.

F. Heat-Sink Strip: Manufacturer's standard continuous, extruded-aluminum strip in manufacturer's standard finish.

G. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel, finished to match hardware, with theft-resistant-type heads. Provide sex-type bolts for through-bolt applications. For concealed anchors, use hot-dip galvanized or other rust-resistant, protective-coated steel.

2.3 FABRICATION

A. General: Provide standard doors, panels, screens, and pilasters fabricated for compartment system. Provide units with cutouts and drilled holes to receive compartment-mounted hardware, accessories, and grab bars, as indicated.

1. Provide internal reinforcement in metal units for compartment-mounted hardware, accessories, and grab bars, as indicated.

B. Solid-Plastic, Polymer-Resin Compartments and Screens: Provide aluminum heat-sink strips at exposed bottom edges of HDPE units to prevent burning.

C. Floor-Anchored ceiling attached Compartments: Provide manufacturer's standard corrosion-resistant supports, leveling mechanism, fasteners, and anchors at pilasters to suit floor conditions. Carry pilasters to and attach to the ceiling. Provide shoes at pilasters to conceal supports and leveling mechanism. Provide a 9” minimum gap at the bottom of the 66” H screen panels. Structural pilasters to extend from floor to ceiling. Confirm ceiling heights are approximately 10’-0” H.

D. Floor-Anchored Screens: Provide pilasters and panels of same construction and finish as toilet compartments. Provide manufacturer's standard stainless steel anchoring assemblies complete with threaded rods, lock washers, and leveling adjustment nuts at pilasters for structural connection to floor and ceiling. Provide shoes at pilasters to conceal anchorage. Provide a 9” minimum gap at the bottom of the 66” H screen panels. Structural pilasters to extend from floor to ceiling.

E. Doors: Unless otherwise indicated, provide 24-inch- (610-mm-) wide in-swinging doors for standard toilet compartments and 36-inch- (914-mm-) wide out-swinging doors with a minimum 32-inch- (813-mm-) wide clear opening for compartments indicated to be handicapped accessible. The bottoms and tops of doors shall match the 9” min. gap at the bottom and 66” H to the top of the door panel.

1. Hinges: Manufacturer's standard self-closing full-length continuous stainless steel piano hinge.
2. Latch and Keeper: Manufacturer's standard surface-mounted latch unit and occupancy sensor with a combination of rubber-faced door strike and keeper designed for emergency access. Provide a continuous aluminum strike at all doors. Provide units that comply with the accessibility requirements of authorities having jurisdiction at compartments indicated to be handicapped accessible.
3. Coat Hook: Manufacturer's standard combination hook and rubber-tipped bumper, sized to prevent door from hitting compartment-mounted accessories.
4. Door Bumper: Manufacturer's standard rubber-tipped bumpers at out-swinging doors or entrance screen doors.
5. Door Pull: Manufacturer's standard unit that complies with accessibility requirements of authorities having jurisdiction at out-swinging doors. Provide units on both sides of doors at compartments indicated to be handicapped accessible. Provide additional pull on inside of door at hinge side within accessible compartments.

D. Urinal Screens: 1” thick HDPE by 22” deep, 66” H and wall and ceiling mounted. Provide continuous wall brackets and a pilaster to the ceiling with a SS shoe. Confirm ceiling heights are approximately 10’-0” H.

2.4 STAINLESS-STEEL SHEET FINISHES

A. General: Comply with NAAM’s “Metal finishes Manual for Architectural and Metal Products” for recommendations relative to applying and designating finishes.

1. Remove or blend tool and die marks and stretch the lines to finish.
2. Grind and polish surfaces to produce uniform, directional textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.

B. Finish: Manufacturer’s standard #3 or #4 directional polish.

C. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

D. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipment.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Comply with manufacturer's written installation instructions. Install unit's rigid, straight, plumb, and level. Provide clearances of not more than 1/2 inch (13 mm) between pilasters and panels and not more than 1 inch (25 mm) between panels and walls. Secure units in position with manufacturer's recommended anchoring devices.

1. Secure panels to walls and panels with continuous brackets. Locate wall brackets so holes for wall anchors occur in masonry or tile joints. Align brackets at pilasters with brackets at walls.

B. Overhead-Braced-and-Floor-Anchored Compartments: Secure pilasters to floor and level, plumb, and tighten. Secure continuous head rail to each pilaster with not less than 2 fasteners. Hang doors and adjust so the tops of doors are parallel with overhead brace when doors are in closed position. Pilasters are to be floor to ceiling as shown on drawings. Install blocking as required.

C. Screens: Attach with anchoring devices according to manufacturer's written instructions and to suit supporting structure. Set units level and plumb and to resist lateral impact. Install blocking as required.

3.2 ADJUSTING AND CLEANING

A. Hardware Adjustment: Adjust and lubricate hardware according to manufacturer's written instructions for proper operation. Set hinges on in-swinging doors to hold open approximately 30 degrees from closed position when unlatched. Set hinges on out-swinging doors and swing doors in entrance screens to return to fully closed position.

B. Provide final protection and maintain conditions that ensure toilet compartments and screens are without damage or deterioration at the time of Substantial Completion.

END OF SECTION 10155

SECTION 10440 - SPECIALTY SIGNS

PART 1 - GENERAL

1.01 SUMMARY

A. Provide specialty building signage.

1.02 SUBMITTALS

A. Submit samples for approval, shop drawings, product data.

1.03 QUALITY ASSURANCE

A. Comply with governing codes and regulations. All signs shall comply with the Florida Accessibility Code for Building Construction. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Panel signs; as manufactured by ROWMARK, TAKEFORM, or approved equal.

1.	Material:	Laminated plastic, 1/32” H. raised graphics
2.	Size:	Minimum 6 inches square, radiused corners
3.	Face Finish/Color:	Matte finish/Color selected by Architect
4.	Number Style:	Helvetica Medium
5.	Size:	1 inch
6.	Number Copy Position:	Top left
7.	Letter Style:	Helvetica Medium
8.	Letter Size:	3/4" uppercase
9.	Letter Copy Position:	Bottom left
10.	Braille:	Grade 2, left justified below number/letter
11.	Number/Letter Color:	White
12.	Mounting:	Non-corrosive fasteners and anchors

B. In addition to wall mounted Men and Women restroom signs provide a single

sided 4” x12” Custodial Room and Electrical Room signs.

C. Provide and “ELECTRICAL HAZARD – STAY OUT – EMPLOYEES ONLY,” sign.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Panel signs shall be wall / door mounted at sixty (60) inches above finish floor to center of sign on latch side of doors. Exact location shall be as directed by Owner.

B. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance.

C. Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.

D. Restore damaged finishes. Clean and protect work from damage.

3.02 SIGN SCHEDULE

A. Space Identification: Rooms numbers to be determined.

B. Accessibility Signage: In addition to room name and number, provide sign with international symbol of accessibility at all restrooms.

END OF SECTION

SECTION 10800 - TOILET ACCESSORIES

PART 1 - GENERAL

1.01 SUMMARY

A. Provide toilet accessories as scheduled or indicated.

B. Owner Furnished/Contractor Installed Items:
1. _____

C. Contractor Furnished/Contractor Installed Items:
1. Mirrors.
2. Electrical Hand Dryers.
3. Toilet Paper Dispensers.
4. Soap Dispensers.
2. Sanitary Napkin Waste Receptacle; provide one in each female stall.
3. Grab Bars; ADA Compliant where applicable.
4. Under lavatory Guard.
5. Waste Receptacles.
6. Clothes Hook.
7. Custodial Shelf.

1.02 SUBMITTALS

A. Submit for approval product data, accessory schedule.

1.03 QUALITY ASSURANCE

A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Grab Bar Units: Satin finish, 42” length, 1 ¼” outside diameter, 18 gage, Type 304 stainless steel with concealed mounting; Bobrick B-6806.99. or approved equal.

B. Toilet paper dispensers: Bobrick b-2890 stainless or equal.

C. Sanitary Napkin Waste Receptacle: Bobrick B-9254 stainless satin or approved equal.

D. Mirrors: Stainless-steel angle, 0.05-inch thick, welded corners, one-piece galvanized steel wall-hanger, size 24”x36” unless otherwise indicated; Bobrick B29302346

E. Soap dispensers: match existing

F. Electric Hand Dryer: Bobrick B-7179 stainless steel satin finish or approved equal

G. Waste Receptacle: Bobrick B-275 Surface Mounted 20 gallon Stainless Steel Satin Finish

H. Baby Changing Station: Match existing type baby changing station in Women's.

I. Clothes Hook: Stainless steel robe hook, single rectangular ½" x 1" post, concealed mounting plate; American Specialties 7340-S or approved equal.

J. Custodial Shelf: Stainless steel unit 36" long with 8" deep shelf, three hooks, four spring-loaded mop/broom holders, and rod suspended beneath shelf; American Specialties 1315-4 or approved equal.

K. Under lavatory Guard: see plumbing

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install accessories according to 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. Coordinate with work of other sections.

B. Install grab bars to withstand a downward load of at least 250 lb., when tested according to method in ASTM F 446.

C. Restore damaged finishes and test for proper operation. Clean and protect work from damage.

END OF SECTION 10800