

ADDENDUM NO. 4  
TO GENERAL, MECHANICAL AND ELECTRICAL  
ABERDEEN PUBLIC WORKS  
MAINTENANCE BUILDING  
ABERDEEN, SOUTH DAKOTA

Addendum Dated: March 27, 2026

Original Plans and Specifications Dated: February 20, 2026

NOTE: The Plans, details and accompanying specifications shall be amended as follows, but where any article is amended the original article shall remain in effect and shall become a part of the original plans and specifications.

A. GENERAL NOTES:

1. Bidding Information & Requirements. Delete Bid Proposal and Bid Modification Form. Replace with attached Bid Proposal and Bid Modification Form (5 pages).
2. The City under separate contract will complete irrigation, landscaping, seeding, paving, sidewalks, concrete curbs and gutters at a later date. Contractor will be required to provide security fencing at a minimum of 20'-0" around the perimeter of the building.
3. Delete elevation "MAINTENANCE EAVE 128'-11 3/4'" on pages A12, A12-A, A13, A14, A15, A16, A17, A33, A34, A38, A39, and A41, and replace with "MAINTENANCE EAVE 129'-10 1/2'".
4. Delete elevation "VEHICLE STORAGE EAVE 123'-11 1/4'" on pages A12, A12-A, A13, A14, A15, A16, A17, A33, A34, A38, A39, and A41, and replace with "VEHICLE STORAGE EAVE 124'-0 1/4'".
5. Add Mechanical 113 East Eave 122'-8 5/8" to page A12, A12-A, A13, A14, A15, A16, A17, A33, A34, A38, A39, and A41.

B. PLAN CHANGES AND CLARIFICATIONS:

1. Sheet A2-A:

- a) Wall type 9, Delete note "TO MATCH MEZZANINE LEVEL".
- b) Wall type 12, add building wrap over 5/8" plywood sheathing, exterior side A.
- c) Wall type 13, add building wrap, exterior side A.
- d) Wall type 14, delete 5/8 gpdw from inside of exterior side A, add vapor barrier inside remaining 5/8" gpdw interior side B.

2. Sheet A2-B:

- a) Wall type 9, Delete note "TO MATCH MEZZANINE LEVEL".
- b) Wall type 12, add building wrap over 5/8" plywood sheathing, exterior side A.
- c) Wall type 13, add building wrap, exterior side A.
- d) Wall type 14, delete 5/8 gpdw from inside of exterior side A, add vapor barrier inside remaining 5/8" gpdw interior side B.

3. Sheet A2-C:

- a) Wall type 10, add building wrap under vertical metal cladding and vapor barrier under  $\frac{3}{4}$ " liner panel in lieu of  $1\frac{1}{4}$ " liner panel.
- b) Wall type 11, add building wrap under vertical metal cladding and change  $1\frac{1}{4}$ " liner panel to  $\frac{3}{4}$ " liner panel.

Sheet A2-D:

- a) Wall type 9, Delete "13-4" HEIGHT" and "TO MATCH MEZZANINE LEVEL", replace with "10'-0" HEIGHT".
- b) Add wall types 9B & 9C to sheet. 9B is to be the East wall of WASH BAY 217, containing door 217B. 9C is to be the North wall of WASH BAY 217 containing door 214 & 217A. See attached wall types on sheet 2.
- b) Wall type 10, add building wrap under vertical metal cladding and vapor barrier under  $\frac{3}{4}$ " liner panel in lieu of  $1\frac{1}{4}$ " liner panel.

4. Sheet A3:

- a) Wall type 11, add building wrap under vertical metal cladding and change  $1\frac{1}{4}$ " liner panel to  $\frac{3}{4}$ " liner panel.

5. Sheet A4-D:

- a) Delete note "LINER PANELS ARE TO BE INSTALLED DIRECTLY ONTO THE PERLINS/ THE BOTTOM OF THE ROOF. LINER PANELS TO BE ALUMNIMUM TO AVOID ANY RUSTING FROM THE WATER." Finished ceiling in Wash Bay 217 to be Simple Saver.

6. Sheet A6-A:

- a) Delete Ceramic Tile floor in JANITOR/ SUPPLY CLOSETS 147 & 148, and replace with sealed concrete.

7. Sheet A6-D:

- a) WASH BAY 217 precast walls and exposed Pre-engineered structure to be painted with epoxy paint.

8. Sheet A20:

- a) Detail 2/A20, Delete detail and replace with attached detail 1/3.
- b) Delete detail 4/A20.
- c) Delete detail 7/A20, and replace with attached detail 1/4.

9. Sheet A21:

- a) Door Schedule, delete column "Door Model". Door to be by Type.
  - I) Door 112C & 112D to be Type F.
  - II) Door 211A to be Type B2.
- b) For the following doors, delete Door Material & Frame Material "FIBERGLASS". Doors are to be regular sectional steel doors.
  - I) 217B
  - II) 217D
  - III) 218A
- c) Door 218A, Delete Door Type "U", and Replace with Door Type "G5".
- d) The following doors are uninsulated coiling doors. Delete Comments "Insulated", and replace with Comments "Uninsulated":
  - I) 203C

- II) 210B
- III) 210C
- IV) 210K
- V) 212A
- VI) 213A
- VII) 301C

e) For the following doors, add the attached Fiberglass door details 1/1:

- I) 214
- II) 217A
- III) 217C
- IV) 217E

f) For Doors 218B & 218D, Delete Door Type “D”, and replace with “E”.

g) For Doors 218B & 218D, Delete Door Model “FLUSH”, and replace with “VISION PANEL”.

h) For the following doors delete Head & Jamb detail 16/A22, and replace with 16/A23:

- I) 209
- II) 210A
- III) 211A

IV) 212C

V) 213B

VI) 217

i) For the following doors delete Head detail 11/A22 and Jamb detail 13/A22, and Replace with Head detail 11/A23 and Jamb detail 13/A23:

- I) 210E
- II) 210F
- III) 210G
- IV) 210H
- V) 210J
- VI) 212D
- VII) 217D
- VIII) 218A
- IX) 218C
- X) 218E
- XI) 218H

j) For the following doors delete Head detail 4/A22 and Jamb detail 5/A22, and Replace with Head detail 3/A23 and Jamb detail 4/A23:

- I) 210D
- II) 301A
- III) 301B

k) For the following doors delete Head detail 2/A22 and Jamb detail 3/A22, and Replace with Head detail 3/A23 and Jamb detail 4/A23:

- I) 212E
- II) 218B
- III) 218D
- IV) 218F

V) 218G

10. Sheet A42:

- a) Detail 2/A42, Delete note “INSULATED RUBBER ROOF”.
- b) Section 3/A42, uninsulated roof drains into gutter, no parapet on west wall.

11. Sheet A43:

- a) Detail 5/A43, Delete EPS Cricket.
- b) 2/A43 to be East Elevation, 4/A43 to be West Elevation.

12. Sheet S8:

- a) Notes “LINTELS IN PRECAST BY PRECAST SUPPLIER – TYP.”, to be by Alternate. “LINTELS IN PRE-ENGINEERED BUILDING BY PRE-ENGINEERED BUILDING SUPPLIER – TYP.” base bid.

C. SPECIFICATION CHANGES AND CLARIFICATIONS:

1. Section 02 50–Earthwork, Field Quality Control

- a) Testing Agency: Owner, at his option, will engage a qualified independent geotechnical engineering testing agency to perform field quality-control testing.
  - I) Allow testing agency to inspect and test sub-grades and each fill or backfill layer. Proceed with subsequent earthwork only after test results for previously completed work comply with requirements.
  - II) Footing Sub-grade: At footing sub-grades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing sub-grades may be based on a visual comparison of sub-grade with tested sub-grade when approved by Architect.
  - III) Testing agency will test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable. Tests will be performed at the following locations and frequencies:
    - 1. Building Slab Areas: At sub-grade and at each compacted fill and backfill layer, at least one test for every 2000 sq. ft. or less of paved area or building slab, but in no case fewer than three tests.
    - 2. Foundation Wall Backfill: At each compacted backfill layer, at least one test for each 100 feet or less of wall length, but no fewer than two tests.
  - IV) When testing agency reports that sub-grades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil to depth

required; recompact and retest until specified compaction is obtained.

2. Section 03 35 43 – Polished Concrete Finishing
  - a) Level of exposure, Low sheen finish Level II polished concrete.
  - b) Sealer product, Penetrating Silicate Sealer. Manufacturer, Xtreme Shield or AmeriPolish SR2.
3. Section 05 51 13 – Metal Stairs
  - a) all metal stairways shall be 4'-0" at Wash Bay and all Mezzanine access stairways.
    - I) Preassembled steel stairs with Diamond grip stair tread treads.
    - II) Steel-Framed Stairs, Diamond grip stair tread, 14-gauge x 1 ½" high galvanized channel 1 ¾" tread, Treads to be 4'-0" wide.
    - III) Steel Landings, Diamond grip landing, 14-gauge x 1 ½" high galvanized channel Landing to be 4'-0" wide and length shown on drawings.
4. Section 06 16 33 – Sheathing
  - a) 2.1, Delete A. Gypsum Sheathing and B. Fire Rated Plywood.
  - b) 2.1, Add 5/8" Plywood.
5. Section 08 16 13 – Fiberglass (FRP) Doors and Frames
  - a) 2.2 Doors 217A, 217C, 217E to be B. EP Series (Extra Heavy Duty).
  - b) 2.2 B. 5., Core type to be i. Expanded polystyrene.
  - c) 2.2 Door 214 to be C. EF Series (Fire).
  - d) 2.4 E. Face Sheets: to be 1. .090 smooth (standard).
  - e) 2.4 L. Frame Construction: to be 2. Set-up and resin welded.
  - f) 2.5 – Finishes, to be B. Factory Finished.
6. Section 07 42 93 – Metal Soffit Panels
  - a) Add Section 07 42 93 in its entirety. See attached 3 pages.
7. Section 09 77 01 – Interlocking Wall Panels
  - a) Add this specification section in its entirety. See attached 5 pages.
8. Section 10 22 26 – Operable Partitions
  - a) Delete section in its entirety. Replace with attached 4 pages.
9. Section 10 28 13 – Toilet and Bath Accessories
  - a) Delete section in its entirety. Replace with attached 3 pages.
10. Section 10 51 13 – Metal Lockers
  - a) 2.3 Metal Lockers: Locker Types and Arrangement: **Single tier.** 18" wide, 18" deep and 72" high, as shown on plan.
11. Section 13 34 19 – Metal Building Systems
  - a) Secondary Framing: Manufacturer's standard secondary framing members, including flange bracing, headers, jambs, and other miscellaneous structural members. Fabricate flange bracing, headers, jambs, and other miscellaneous structural members as required to bracing exterior insulated precast concrete panels, upper and lower canopy bracing and support and interior 8" precast concrete panels between primary structural members.

- I) Flange Bracing at exterior insulated precast concrete panels, upper and lower canopy bracing and support and interior 8" precast concrete panels between primary structural members
- II) Framing for Overhead Sectional and Coiling Door Openings.
- III) Miscellaneous Structural Members: Provide required structural bracing at pipe racking overhead and at walls. Provide all metal headers, jambs, blocking along with finished metal trim at door openings within the metal building envelope. Provide fascia flange bracing, base members, gable angles as required to provide finished surface flashing, trim and gutters.

D. APPROVED EQUALS:

1. Section 07 42 43 – Pac-Clad PAC-4000 RV Reveal.

PROPOSAL

GENERAL, MECHANICAL & ELECTRICAL CONSTRUCTION

\_\_\_\_\_  
FIRM

\_\_\_\_\_  
ADDRESS

\_\_\_\_\_  
DATE

**NOTE:** This proposal to be submitted in duplicate, on forms provided; in a sealed envelope, clearly marked as noted in Instructions to Bidders.

Aberdeen Public Works  
Maintenance Building  
Aberdeen, SD 57401

We hereby proposed to furnish all labor, materials, and equipment required for the Construction of the Aberdeen Public Works Maintenance Building, Aberdeen, SD; all to be in strict accordance with the plans and specifications prepared by HKG Architects, AIA for the following Base Bid:

BASE BID \_\_\_\_\_  
Dollars (\$) \_\_\_\_\_).

\*\*\*\*\*

**Add Alternate No. 1:** \_\_\_\_\_  
Dollars (\$) \_\_\_\_\_).

The Contractor to include the cost to construct the 8,063 Sq. Ft. Garbage Truck Building Addition. Structure and walls to match base bid. Wall Type 10 to extend to three exterior walls. Metal building supplier to provide required flanges between structural columns to stabilize precast panels and reinforce exterior walls.

\*\*\*\*\*

**Add Alternate No. 2:** \_\_\_\_\_  
Dollars (\$) \_\_\_\_\_).

The Contractor to include the cost to construct the 26,209 Sq. Ft. Warehouse Addition. Structure and walls to match base bid and Garbage Building Addition. Wall Type 10 to extend to two exterior walls. Interior walls of Garbage Truck building to be Wall Type 9 unrated. Metal building supplier to provide required flanges between structural columns to stabilize precast panels and reinforce exterior walls.

\*\*\*\*\*

**Add/Deduct Alternate No. 3:** \_\_\_\_\_  
Dollars (\$) \_\_\_\_\_).

The Contractor to include the cost to provide exterior Architectural 10” Precast Panel for the total height of the exterior walls of the pre-engineered metal building wash bay, paint booth, welding shop, service and warehouse portions of the Maintenance Building Base Bid. This will include the upper exterior wall of the Mezzanine. Metal Building supplier to extend roof system and fascia over proposed precast panels provide all need flanges, angles incorporating gutters, downspouts, flashing and fascia.

\*\*\*\*\*

**Deduct Alternate No. 4:** \_\_\_\_\_

\_\_\_\_\_  
Dollars (\$) \_\_\_\_\_).

The Contractor shall submit a cost to deduct from the base bid to eliminate the Mezzanine windows.  
\*\*\*\*\*

**Add/Deduct Alternate No. 5:** \_\_\_\_\_

\_\_\_\_\_  
Dollars (\$) \_\_\_\_\_).

The Contractor to include the cost to provide exterior Architectural 10” Precast Panel for the total height of the exterior walls of the pre-engineered metal building wash bay, paint booth, welding shop, service and warehouse portions of the Maintenance Building Base Bid and Add Alternates 1 Garbage Truck Addition & 2 Warehouse Addition. This will include the upper exterior wall of the Mezzanine. Metal Building supplier to extend roof system and fascia over proposed precast panels provide all need flanges, angles incorporating gutters, downspouts, flashing and fascia.

\*\*\*\*\*

**Add Alternate No. 6:** \_\_\_\_\_

\_\_\_\_\_  
Dollars (\$) \_\_\_\_\_).

The Contractor to include the cost to install 06 16 13 Insulating Air and Moisture Resistant Sheathing (VIP Panel) to all exterior walls of Office Area of the Maintenance Building. This would eliminate building wrap and 5/8” plywood proposed in the Base Bid.

\*\*\*\*\*

**Add Alternate No. 7:** \_\_\_\_\_

\_\_\_\_\_  
Dollars (\$) \_\_\_\_\_).

The Contractor to include the cost of installing an emergency radio responder system Section 28 32 00.  
\*\*\*\*\*

TIME OF COMPLETION

Work shall be completed within \_\_\_\_\_ calendar days from date of construction contract. (Contractor to fill in the blank.)

GENERAL NOTES

Accompanying this proposal is a certified check, cashiers check or draft, or bid bond made payable to City of Aberdeen, Ab-  
erdeen, South Dakota.

This proposal includes State Sales Tax on all material and all other State and Federal Taxes that would affect the amount of  
the bid.

In submitting this proposal it is understood that the right is reserved by the owner to reject any and all bids and to  
waive all informalities.

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The contractor hereby acknowledges receipt of the following Addenda:

(Give Number and Date of each)

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FIRM

---

ADDRESS

---

BY

---

TITLE

---

PHONE

FAX

BID MODIFICATION FORM

DATE: \_\_\_\_\_

Aberdeen Public Works  
Maintenance Building  
Aberdeen, SD

Please make the following modifications to our bid on the referenced project. This modification is per the Instructions to Bidders, Article 4.4 Modification or Withdrawal of Bid, included in the original bid documents and modifies our sealed bid.

DATE: Please circle the appropriate ADD/DEDUCT action.

**Modification to Base Bid – ADD / DEDUCT to our Base Bid the Sum of**

\_\_\_\_\_

Dollars (\$ \_\_\_\_\_ )

.....

**Modification to Alternate #1 – ADD / DEDUCT to our Base Bid the Sum of**

\_\_\_\_\_

Dollars (\$ \_\_\_\_\_ )

.....

**Modification to Alternate #2 – ADD / DEDUCT to our Base Bid the Sum of**

\_\_\_\_\_

Dollars (\$ \_\_\_\_\_ )

.....

**Modification to Alternate #3 – ADD / DEDUCT to our Base Bid the Sum of**

\_\_\_\_\_

Dollars (\$ \_\_\_\_\_ )

.....

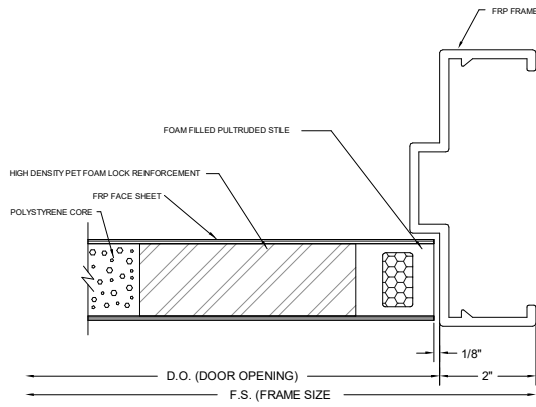
**Modification to Alternate #4 – ADD / DEDUCT to our Base Bid the Sum of**

\_\_\_\_\_

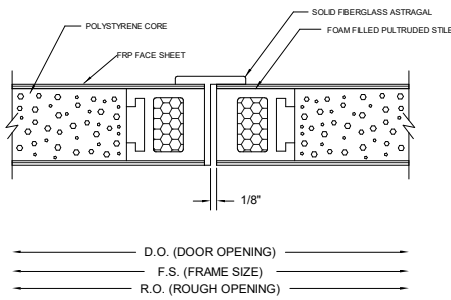
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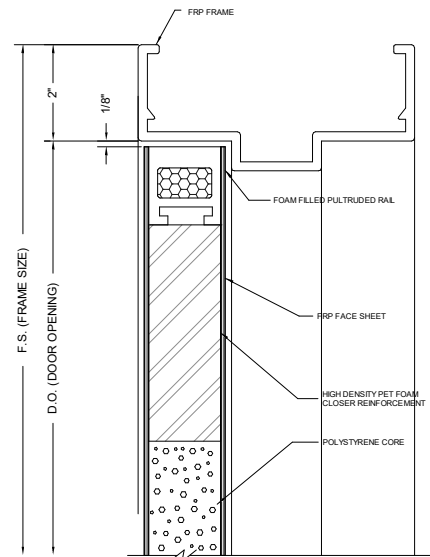




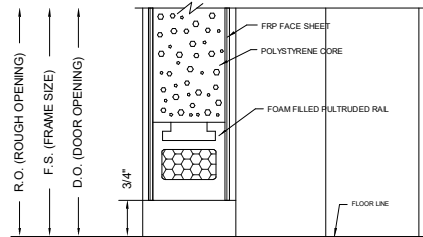
LOCK JAMB DETAIL  
(SQUARE STILE)



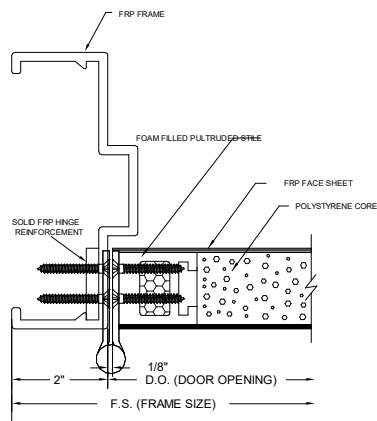
MEETING STILES WITH ASTRAGAL



HEAD DETAIL



SILL DETAIL (FLUSH BOTTOM)

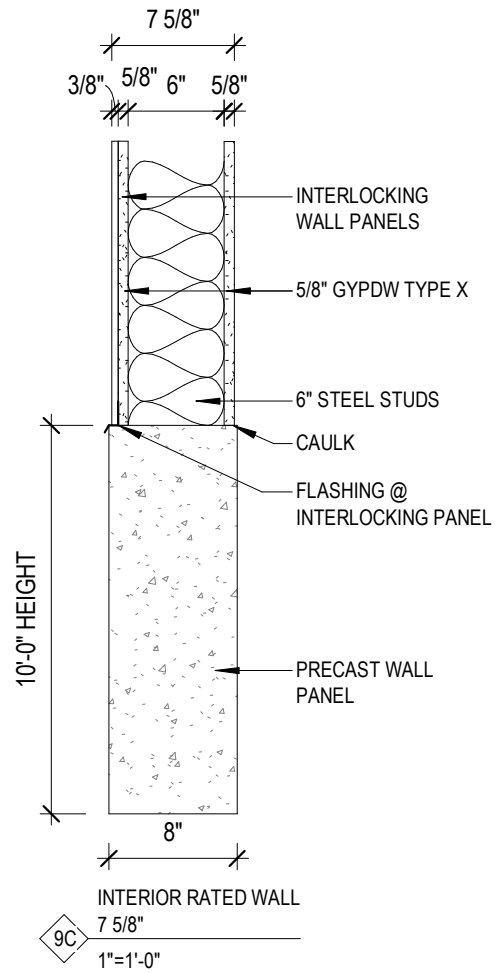
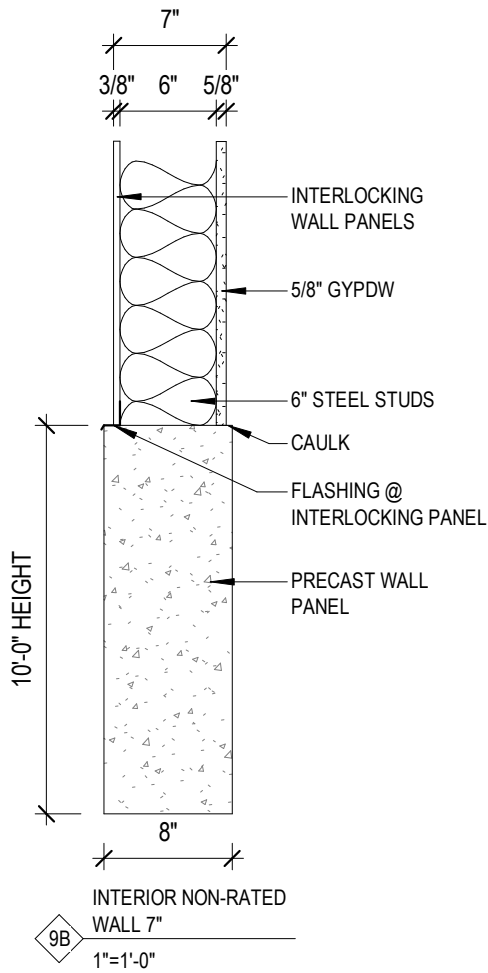


BUTT HINGE JAMB DETAIL

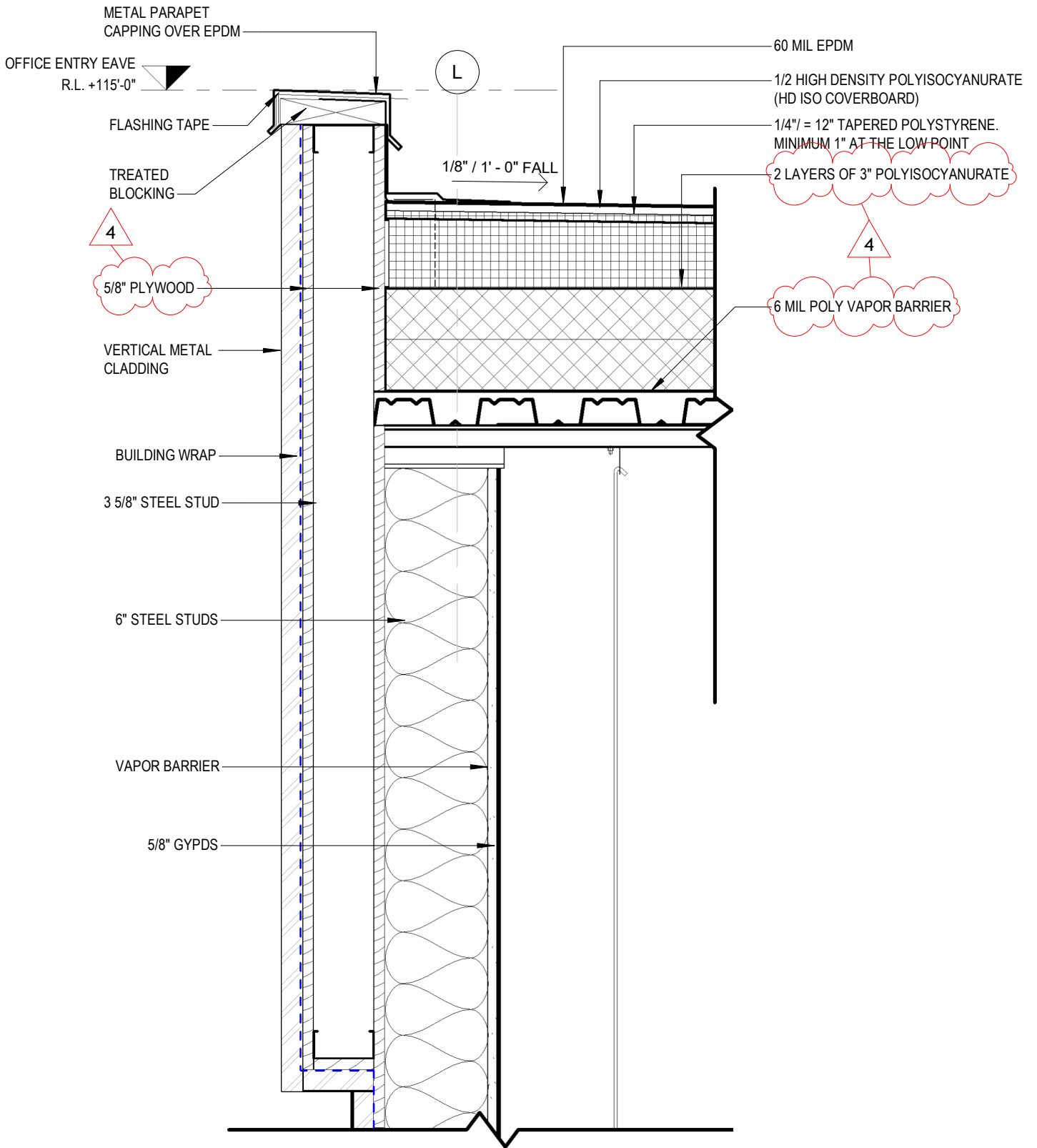
① Fiberglass door details  
3" = 1'-0"



REVISED DATE	Plans for Aberdeen Public Works Maintenance Building Aberdeen, South Dakota	Addendum 4	DRAWN BY <u>CW</u>	1
CERT. NO.			TRACED BY _____	
	HKG Architects, Inc.	Aberdeen, S.D.	CHECKED BY <u>DM</u>	OF-4
			DATE 3/25/26	PROJECT NO. 2023-0032



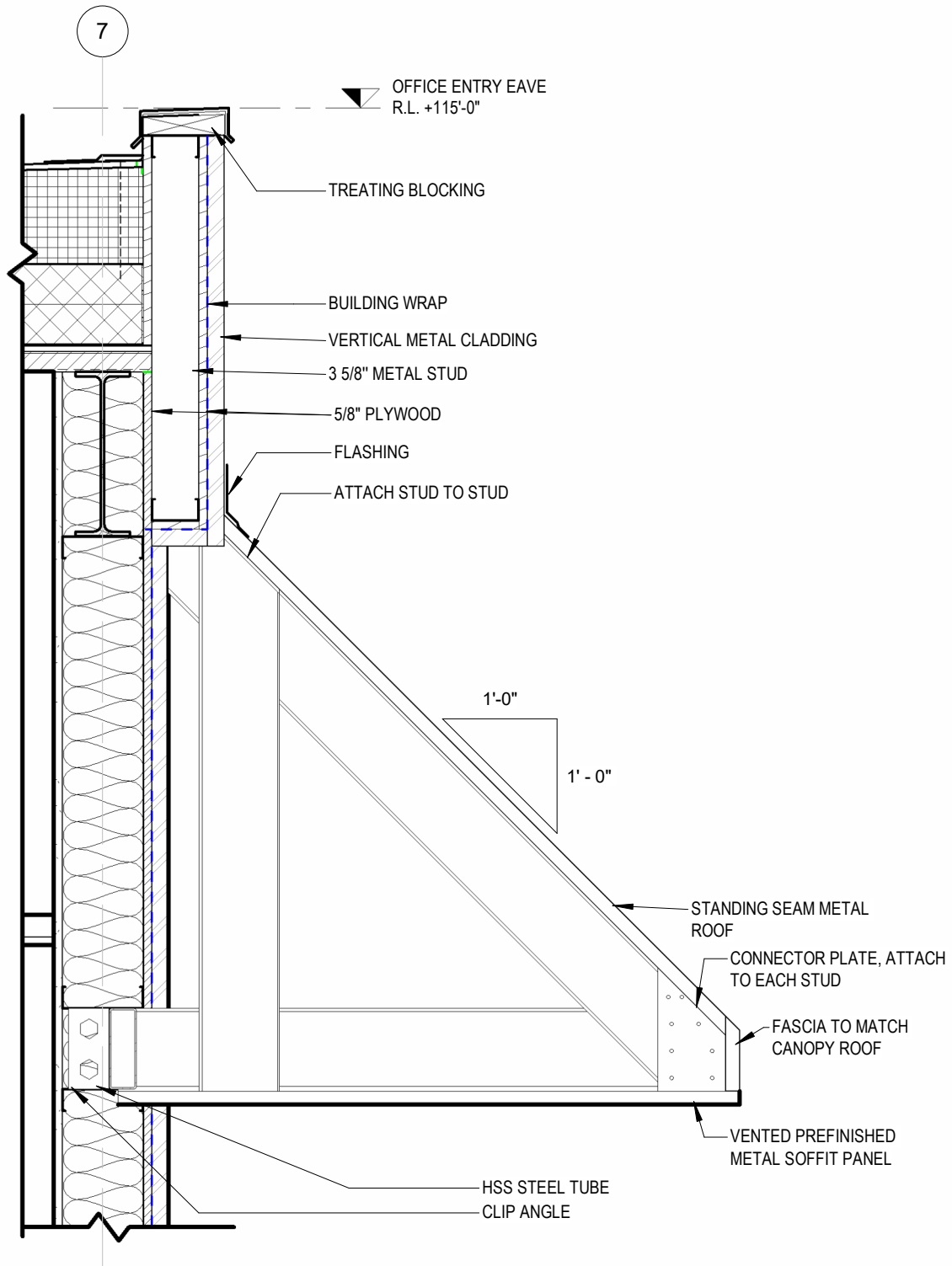
REVISED DATE	Plans for Aberdeen Public Works Maintenance Building Aberdeen, South Dakota	Addendum 4	DRAWN BY <u>CW</u>	2
CERT. NO.			TRACED BY _____	
	HKG Architects, Inc.	Aberdeen, S.D.	DATE 3/25/26	PROJECT NO. 2023-0032



1 ROOF TO METAL CAPPING DETAIL.  
 1 1/2" = 1'-0"



REVISED DATE	Plans for Aberdeen Public Works Maintenance Building Aberdeen, South Dakota	Addendum 4	DRAWN BY <u>CW</u>	3
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	HKG Architects, Inc.	Aberdeen, S.D.	DATE 3/25/26	PROJECT NO. 2023-0032



① CANOPY DETAIL @ METAL WALL OFFICE BUILDING.  
1" = 1'-0"



REVISED DATE	<b>Plans for</b> Aberdeen Public Works Maintenance Building Aberdeen, South Dakota	Addendum 4	DRAWN BY <u>CW</u>	<b>4</b>
CERT. NO.			TRACED BY _____	
	HKG Architects, Inc.	Aberdeen, S.D.	DATE 3/25/26	PROJECT NO. 2023-0032

**SECTION 07 42 93 - METAL SOFFIT PANELS**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

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

**1.2 SUMMARY**

- A. This Section includes the following:
  - 1. Factory-formed and field-assembled, lap seam metal soffit panels and fascia.
- B. Related Sections include the following:
  - 1. Division 7 Section "Sheet Metal Flashing and Trim" for fasciae, flashings and other sheet metal work not part of metal wall panel assemblies.
  - 2. Division 7 Section "Joint Sealants" for field-applied sealants not otherwise specified in this Section.

**1.3 DEFINITIONS**

- A. Steel Sheet Thickness: Minimum thickness of base metal without metallic coatings or painted finishes.

**1.4 PERFORMANCE REQUIREMENTS**

- A. General: Provide metal soffit panel assemblies that comply with performance requirements specified as determined by testing manufacturers' standard assemblies similar to those indicated for this Project, by a qualified testing and inspecting agency.
- B. Water Absorption: Maximum 1.0 percent absorption rate by volume when tested according to ASTM C 209.
- C. Structural Performance: Provide metal soffit panel assemblies capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated, based on testing according to ASTM E 1592:
  - 1. Wind Loads: Determine loads based on the following minimum design wind pressures:
    - a. Uniform pressure as indicated on Drawings.
- D. Thermal Movements: Provide metal soffit panel assemblies that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
  - 1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.

**1.5 SUBMITTALS**

- A. Samples for Initial Selection: For each type of metal soffit panel indicated with factory-applied color finishes.
  - 1. Include similar Samples of trim and accessories involving color selection.
  - 2. Include manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each sealant exposed to view.

**1.6 QUALITY ASSURANCE**

- A. Fabricator Qualifications: Certified by metal-faced composite soffit panel manufacturer to fabricate and install manufacturer's soffit panel system.
- B. Source Limitations: Obtain each type of metal soffit panel through one source from a single manufacturer.
- C. Product Options: Drawings indicate size, profiles, and dimensional requirements of metal soffit panels and are based on the specific system indicated. Refer to Division 1 Section "Product Requirements."
  - 1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

**1.7 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver components, sheets, metal soffit panels, and other manufactured items so as not to be damaged or deformed. Package metal soffit panels for protection during transportation and handling.
- B. Unload, store, and erect metal soffit panels in a manner to prevent bending, warping, twisting, and surface damage.
- C. Stack metal soffit panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal soffit panels to ensure dryness, with positive slope for drainage of water. Do not store metal soffit panels in contact with other materials that might cause staining, denting, or other surface damage.
- D. Protect strippable protective covering on metal soffit panels from exposure to sunlight and high humidity, except to extent necessary for period of metal soffit panel installation.

**1.8 PROJECT CONDITIONS**

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal soffit panels to be performed according to manufacturers' written instructions and warranty requirements.
- B. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before metal soffit panel fabrication and indicate measurements on Shop Drawings.
  - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, either establish framing and opening dimensions and proceed with fabricating metal soffit panels without field

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measurements, or allow for field trimming of panels. Coordinate wall construction to ensure that actual building dimensions, locations of structural members, and openings correspond to established dimensions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply for product selection:
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the manufacturers specified.

2.2 MISCELLANEOUS MATERIALS

- A. Fasteners: Self-tapping screws, bolts, nuts, self-locking rivets and bolts, end-welded studs, and other suitable fasteners designed to withstand design loads. Provide exposed fasteners with heads matching color of metal soffit panels by means of plastic caps or factory-applied coating.
1. Fasteners for Soffit Panels: Self-drilling or self-tapping, zinc-plated, hex-head carbon-steel screws, with a stainless-steel cap or zinc-aluminum-alloy head and EPDM or neoprene sealing washer.
  2. Fasteners for Flashing and Trim: Blind fasteners or self-drilling screws with hex washer head.
  3. Blind Fasteners: High-strength aluminum or stainless-steel rivets.
- B. Bituminous Coating: Cold-applied asphalt mastic, SSPC-Paint 12, compounded for 15-mil dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.

2.3 METAL SOFFIT PANELS

- A. General: Provide factory-formed metal soffit panels designed to be field assembled by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners and factory-applied sealant in side laps. Include accessories required for weathertight installation.
- B. Rollex, 800 Chase Ave. Oak Grove Village, IL 60007, System 3, I-Beam, Center Vented Metal Soffit Panels: Perforated panels formed with vertical panel edges and intermediate stiffening ribs symmetrically spaced between panel edges.
1. Equal Manufacturers:
    - a. ColorKlad
    - b. Una-Clad
  2. Material: Zinc-coated (galvanized) steel sheet, 0.0209 inch thick.
    - a. Exterior Finish: Siliconized polyester.
    - b. Color: As selected by Architect from manufacturer's full range.
  3. Panel Coverage: 16 inches.
  4. Panel Height: 0.50 inch.

2.4 ACCESSORIES

- A. Soffit Panel Accessories: Provide components required for a complete metal soffit panel assembly including trim, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal soffit panels, unless otherwise indicated.
1. Closures: Provide closures at eaves and rakes, fabricated of same metal as metal wall panels.
  2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
  3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch- thick, flexible closure strips; cut or premolded to match metal soffit panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
- B. Flashing and Trim: Formed from 0.0179-inch- thick, zinc-coated (galvanized) steel sheet or aluminum-zinc alloy-coated steel sheet prepainted with coil coating. Provide flashing and trim as required to seal against weather and to provide finished appearance. Finish flashing and trim with same finish system as adjacent metal soffit panels.

2.5 FABRICATION

- A. General: Fabricate and finish metal soffit panels and accessories at the factory to greatest extent possible, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
1. Fabricate soffit panels with panel stiffeners as required to maintain fabrication tolerances and to withstand design loads.
- B. Sheet Metal Accessories: Fabricate flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to the design, dimensions, metal, and other characteristics of item indicated.
1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.

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2. Seams for Aluminum: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with epoxy seam sealer. Rivet joints for additional strength.
3. Seams for Other Than Aluminum: Fabricate nonmoving seams in accessories with flat-lock seams. Tin edges to be seamed, form seams, and solder.
4. Sealed Joints: Form nonexpansion but movable joints in metal to accommodate elastomeric sealant to comply with SMACNA standards.
5. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.

2.6 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal wall panel supports, and other conditions affecting performance of work.
  1. Examine primary and secondary wall framing to verify that girts, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerances required by metal wall panel manufacturer.
- B. Examine roughing-in for components and systems penetrating metal wall panels to verify actual locations of penetrations relative to seam locations of metal wall panels before metal wall panel installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrates of substances harmful to insulation, including removing projections capable of interfering with insulation attachment.
- B. Install flashings and other sheet metal to comply with requirements specified in Division 7 Section "Sheet Metal Flashing and Trim."
- C. Install fasciae and copings to comply with requirements specified in Division 7 Section "Sheet Metal Flashing and Trim."

3.3 FIELD-ASSEMBLED METAL SOFFIT PANEL INSTALLATION

- A. Metal Soffit Panels: Provide metal soffit panels full width of soffits. Install panels perpendicular to support framing.
  1. Flash and seal panels with weather closures where metal soffit panels meet walls and at perimeter of all openings.

3.4 ACCESSORY INSTALLATION

- A. General: Install accessories with positive anchorage to building and weathertight mounting and provide for thermal expansion. Coordinate installation with flashings and other components.
  1. Install components required for a complete metal soffit panel assembly including trim, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items.

3.5 ERECTION TOLERANCES

- A. Installation Tolerances: Shim and align metal wall panel units within installed tolerance of 1/4 inch in 20 feet, nonaccumulative, on level, plumb, and location lines as indicated and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

3.6 CLEANING AND PROTECTION

- A. Remove temporary protective coverings and strippable films, if any, as metal soffit panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal soffit panel installation, clean finished surfaces as recommended by metal soffit panel manufacturer. Maintain in a clean condition during construction.
- B. After metal soffit panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.
- C. Replace metal soffit panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 07 42 93

## Section 09 77 01 | Interlocking Wall Panels

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### PART 1: GENERAL

#### 1.01 Summary

A. Section Includes: Durable, decorative wall panels with smooth or textured finishes. Mounting hardware, adhesives, accessories and trims.

B. Related Sections:

1. Division 06 Section: Rough and Finish Carpentry.
2. Division 09 Section: Gypsum Board Assemblies.

#### 1.02 References

A. General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to the extent indicated.

Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.

B. ASTM International:

1. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
2. ASTM D256 Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics.
3. ASTM D638 Standard Test Method for Tensile Properties of Plastics.
4. ASTM D790 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
5. ASTM D2583 Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor.

#### 1.03 System Description

A. Performance Requirements: Provide durable, decorative wall panels which have been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.

#### 1.04 Submittals

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 01300 Submittal Procedures Section.

B. Product Data: Submit manufacturer's product data, storage, handling and preparation requirements and installation instructions.

C. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories, finish colors, patterns and textures. Indicate location and dimension of joints and fastener attachment.

D. Samples: Submit selection and verification samples for finishes, colors and textures. Submit 2 samples of each type of panel, trim and fastener.

General: Firm experienced in successful production of wall system similar to that indicated for the Project.

Quality Assurance/Control Submittals: Submit the following:

1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
2. Certificates:
  - a. Submit manufacturer's certificate that products meet or exceed specified requirements.
  - b. Submit certificate of installer's qualifications.
3. Manufacturer's Instructions: Manufacturer's installation instructions.

F. Closeout Submittals: Submit the following:

1. Operations and Maintenance Data: Operation and maintenance data for installed products in accordance with Division 01 Closeout Submittals (Maintenance Data and Operation Data) Section. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.
2. Warranty documents specified herein.

#### 1.05 Quality Assurance

A. Installer Qualifications: Installer shall have a minimum of 5 years experience with composite wall panel work similar in scope and size to this project.

#### 1.06 Delivery, Storage & Handling

A. General: Comply with Division 01 Product Requirements Section.

B. Lead Time: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

D. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1. Store panels indoors.
2. Lay panels flat. Do not stand panels on edge.
3. Protect panels from moisture.
4. Do not store panels in contact with the floor or against an outside wall.
5. Do not remove protective film from panel surface until after installation (if applicable).
6. Maintain optimum storage conditions of 60-75 degrees F (16-24 degrees C) at 35 - 55% relative humidity. Avoid extremes in temperature and humidity.

E. Handling: Remove foreign matter from face of panel by using a soft bristle brush, avoiding abrasive action.

#### 1.07 Project/Site Conditions

A. Environmental Requirements:

1. Installation shall not begin until building is enclosed, permanent heating and cooling equipment is in operation and residual moisture from plaster, concrete or terrazzo work has dissipated.
2. Install panels between 60 degrees F - 75 degrees F (15 - 24 degrees C) and relative humidity below 55%, ideally at the same conditions as the room's normal operating temperatures after building is occupied.
3. Provide ventilation to disperse fumes during application of adhesive as recommended by adhesive manufacturer.
4. Do not install wall system until normal lighting conditions exist. Normal lighting conditions are described as those in place when the project is finished.

B. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1. Wall, ceilings, floors and openings must be level, plumb, straight, in-line and square

### 1.08 Warranty

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.
- C. Warranty Period: [2] years commencing on Date of Substantial Completion.
  - 1. Warranty extends to products assembled / installed and used in the manner intended and does not cover damage or failure caused by: misuse, abuse or accidents, exposure to extreme temperature, improper installation, improper maintenance and exposure to water or excessive humidity or excessive moisture.

### 1.09 Maintenance

- A. Extra Materials: Provide [A recommended percentage of] [2%] additional material for use by owner in building maintenance and repair.

## PART 2: PRODUCTS

### 2.01 Composite Wall Panels

- A. Manufacturer: Nudo or approved equal.
  - 1. Contact: 1500 Taylor Avenue, Springfield, IL 62703; Telephone: (800) 826-4132, (217) 528-5636; Fax: (217) 528-8722; E-mail: [info@nudo.com](mailto:info@nudo.com) ; website: [www.nudo.com](http://www.nudo.com)
- B. Proprietary Products/Systems: Composite wall & ceiling panels, including the following:

Utilite™ Interlocking Wall Panels:

Texture: Smooth  
High Pressure Laminate (HPL):  
Thickness: 0.400"  
Fire-Rating Class: A  
Color: White  
Size: 2 panels required for height x 24" wide.

Physical Properties:

- 1) Flexural Strength (ASTM D790): 2,233 lbf/in<sup>2</sup>.
- 2) Flexural Modulus (ASTM D790): 156,976 psi.
- 3) Tensile Strength (ASTM D638): 1,308 psi.
- 4) Barcol Hardness (ASTM D2583): –
- 5) Izod Impact (ASTM D256): 1.57 ft-lb/in.
- 6) Surface Burning Characteristics (ASTM E84): Class A.

### 2.02 Product Substitutions

Substitutions: Needs to be approved prior to bid.

## 2.03 Accessories

Moldings: [Coordinating PVC (polyvinyl chloride) molding(s) ] [White]

## PART 3: EXECUTION

### 3.01 Manufacturer's Instructions

A. Adhesive: Provide panel adhesive as recommended by panel manufacturer.

B. Trim and Seam Treatment:

1. Manufacturer: Acceptable to panel manufacturer.
2. Manufacturer Designation: [Corner molding] [Division bar] [Cap]
3. Material and Color: [Standard PVC Moldings ] [White ]

C. Fasteners: Provide appropriate fasteners and accessories as required to properly complete installation.

### 3.03 Preparation

A. Comply with the instructions and recommendations of the durable, decorative wall panel manufacturer.

Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions. Verify that site conditions are acceptable for installation of durable, decorative wall panels. Examine back-up surfaces to determine that corners are plumb and straight, surfaces are smooth, uniform, clean and free from foreign matter, nails are countersunk and joints and cracks are filled flush and smooth with the adjoining surface. Do not proceed with installation of durable, decorative wall panels until unacceptable conditions are corrected.

### 3.04 Installation

A. General: Prior to installing panels, remove packaging and allow panels to acclimate to room temperature and humidity for at least 48 hours.

Wall substrate must be dry and free from dirt, dust, grease and other contaminants. Walls must be flat and even. Remove high spots and fill low spots with material acceptable to panel manufacturer.

Remove wallpaper, soluble or loose paint and other foreign matter that might interfere with proper adhesive bond.

Painted walls must be prepared to adhesive manufacturer specifications for proper adhesion.

B. General:

Inspect panels for any defects immediately. Do not install panels of unacceptable quality. Field cutting of all wall systems should be accomplished using a circular saw with fine tooth carbide blade.

Position panel so that the saw blade enters the finished HPL side first to avoid chipping or damage. Protect decorative laminate face of panel by covering work area, do not remove protective will until after installation.

Follow adhesive manufacturer's recommendations for appropriate height of adhesive bead left by trowel and do not allow adhesive to skin over. When interior paneling is on an exterior wall or wet area, provide a barrier sheet and/or follow the adhesive manufacturer's installation recommendations for a secure bond.

C. For installation to studs or furring straps, for non-composite wall system applications, use mechanical fasteners spaced 24 inches on center (O.C.) Furring straps shall be no less than 18 gauge 3-1/2 inches wide. Joint Seam Treatment: Install panels using the following method.

[Color matched acrylic latex caulk].

[Aluminum moldings].

[PVC moldings].

D. Installation Using PVC Trims:

1. Start in the corner. Mark plumb line 48 1/8 inches from corner.
2. Apply adhesive directly to entire back of composite wall panel using correct trowel with 100% adhesive coverage using crosshatch pattern. Apply adhesive to within 1/2 inch of all edges of panel.
3. Slide panel into molding and withdraw [1/8 inch for PVC moldings] [1/16 inch for aluminum moldings] to provide appropriate gap. Align with plumb line.
4. Begin in top corner nearest molding with laminate roller, rolling down and out toward the edge without molding.
5. Continue rolling down and out working across panel away from previously installed panel or initial molding. Remove all trapped air.
6. Install one-piece division bar and caps or next molding by sliding onto panel.
7. Repeat process, working in one direction around room.
8. Immediately remove all adhesive residue. To remove, clean with nonabrasive cotton cloth and warm water. If necessary, use a mild nonabrasive detergent. For cleanup with solvent based adhesives, use mineral spirits or acetone to remove residue.

### 3.05 Cleaning

A. Clean panel surfaces in compliance with manufacturer's recommendations.

1. Use a clean, damp, nonabrasive cotton cloth and a mild liquid detergent or household cleaner.
2. Rinse with clean water using a clean, nonabrasive cotton cloth.
3. Dry panels with a soft, clean nonabrasive cotton cloth.
4. Do not use cleaners containing acid, alkali or sodium hypochlorite.

A. Protect installed work from damage due to subsequent construction activity on the site.

— END OF SECTION —

## **SECTION 10 22 26 OPERABLE PARTITIONS**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

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

#### **1.2 SUMMARY**

A. This Section includes the following:

1. Manually operated, individual panel operable partitions.

B. Related Sections include the following:

1. Division 03 Sections for concrete tolerances required.

2. Division 05 Sections for primary structural support, including pre-punching of support members by structural steel supplier per operable partition supplier's template.

3. Division 06 Sections for wood framing and supports, and all blocking at head and jambs as required.

4. Division 09 Sections for wall and ceiling framing at head and jambs.

#### **1.3 QUALITY ASSURANCE**

A. Installer Qualifications: An experienced installer who is certified by the operable partition manufacturer, as qualified to install the manufacturer's partition systems for work similar in material, design, and extent to that indicated for this Project.

B. Acoustical Performance: Test operable partitions in an independent acoustical laboratory in accordance with ASTM E90 test procedure and classified in accordance with ASTM E413 to attain no less than the STC rating specified. Provide a complete and unedited written test report upon request.

C. Preparation of the opening shall conform to the criteria set forth per ASTM E557 *Standard Practice for Architectural Application and Installation of Operable Partitions*.

D. The operable wall must be manufactured by a certified ISO-9001-2015 company or an equivalent quality control system.

#### **1.4 REFERENCE STANDARDS**

A. ASTM International

1. ASTM E557 Standard Practice for Architectural Application and Installation of Operable Partitions.

2. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.

1. ASTM E84 - Surface Burning Characteristics of Building Materials.

2. ASTM E413 - Classification for Rating Sound Insulation

D. Other Standards

1. ADA – Americans with Disabilities Act.

2. NEMA LD3 - High Pressure Decorative Laminates.

#### **1.5 SUBMITTALS**

A. Product Data: Material descriptions, construction details, finishes, installation details, and operating instructions for each type of operable partition, component, and accessory specified.

B. Shop Drawings: Show location and extent of operable partitions. Include plans, elevations, sections, details, attachments to other construction, and accessories. Indicate dimensions, weights, conditions at openings, and at storage areas, and required installation, storage, and operating clearances. Indicate location and installation requirements for hardware and track, including floor tolerances required and direction of travel. Indicate blocking to be provided by others.

C. Setting Drawings: Show imbedded items and cutouts required in other work, including support beam punching template.

D. Samples: Color samples demonstrating full range of finishes available by architect. Verification samples will be available in same thickness and material indicated for the work.

E. Reports: Provide a complete and unedited written sound test report indicating test specimen matches product as submitted.

F. Buy American: Operable partition to be manufactured in the United States in compliance with applicable U.S. Federal Trade Commission (FTC) and U.S. Customs Service and Border Protections regulations and be labeled "Made in America".

### **1.6 DELIVERY, STORAGE, AND HANDLING**

A. Clearly mark packages and panels with numbering systems used on Shop Drawings. Do not use permanent markings on panels.

B. Protect panels during delivery, storage, and handling to comply with manufacturer's direction and as required to prevent damage.

### **1.7 WARRANTY**

A. Provide written warranty by manufacturer of operable partitions agreeing to repair or replace any components with manufacturing defects.

B. Warranty period: Eight (8) years.

## **PART 2 – PRODUCTS**

### **2.1 MANUFACTURERS, PRODUCTS, AND OPERATION**

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

1. Modernfold, Inc.

B. Panels to be manufactured in the U.S.A.

C. Products: Subject to compliance with the requirements, provide the following product:

1. Acousti-Seal Legacy – Single Panel (931) manually operated individual panel operable partition.

### **2.2 OPERATION**

A. Acousti-Seal Legacy – Single Panel (931): Series of individual flat panels, manually operated, top supported with operable floor seals.

B. Final Closure:

1. Horizontally expanding panel edge with removable crank.

2. Dual horizontally expanding panel edges with removable crank.

### **2.3 PANEL CONSTRUCTION**

A. Nominal 3-inch (76mm) thick panels in manufacturer's standard 48-inch (1220mm) widths. All panel horizontal and vertical framing members fabricated from minimum 16-gage formed steel with overlapped and welded corners for rigidity. Top channel is reinforced to support suspension system components. Frame is designed so that full vertical edges of panels are of formed steel and provide concealed protection of the edges of the panel skin.

B. Panel Skin Options:

1. Roll-formed 21-gage Micro-perforated steel wrapping around panel edge provided on 50% of panel faces manufactured with sound absorptive backing. Panel skins shall be lock formed and welded directly to the frame for unitized construction. Acoustical ratings of panels with this construction shall be no less than:

a. 52 STC

C. Panel Trim: No vertical trim required or allowed on edges of panels; minimal groove appearance at panel joints.

D. Panel Weights:

1. 52 STC - 11 lbs./square foot

### **2.4 PANEL FINISHES**

A. Panel face finish shall be:

1. Acoustical, non-woven needle punch carpet, with fused fibers to prevent unraveling or fray of material.

B. Panel trim: No exposed panel trim required or allowed; seals and hardware to be of one color.

1. Dark Bronze

## **2.5 SOUND SEALS**

- A. Vertical Interlocking Sound Seals between panels: Roll-formed steel astragals, with reversible tongue and groove configuration in each panel edge for universal panel operation. Rigid plastic or aluminum astragals or astragals in only one panel edge are not acceptable.
- B. Horizontal Top Seals: Continuous contact extruded vinyl bulb shape with pairs of non-contacting vinyl fingers to prevent distortion without the need for mechanically operated parts.
- C. Horizontal Bottom Seals (select one):
  - 1. A2 - Automatic operable seals providing nominal 2-inch (51 mm) operating clearance with an operating range of +1/2-inch to -1-1/2 inch which automatically drop as panels are positioned, without the need for tools or cranks.

## **2.6 SUSPENSION SYSTEM**

- A. #14 Suspension System: "Smart Track"
  - 1. Suspension Tracks: Minimum 7-gage, 0.18-inch roll formed steel. Track shall be supported by adjustable steel hanger brackets connected to structural support pairs of 1/2-inch diameter threaded rods. Brackets must support the load bearing surface of the track.
    - a. Exposed track soffit: Steel, removable for service and maintenance, attached to track bracket without exposed fasteners, and pre-painted off-white.
  - 2. Carriers: Two all-steel trolleys with steel-tired ball bearing wheels. Non-steel tires are not acceptable. Suspension system shall provide automatic indexing of panels into stack area using preprogrammed switches and trolleys without electrical, pneumatic, or mechanical activation.
  - 3. Warranty period: Twenty (20) years.

## **PART 3 – EXECUTION**

### **3.1 INSTALLATION**

- A. General: Comply with ASTM E557, operable partition manufacturer's written installation instructions, Drawings, and approved Shop Drawings.
- B. Install operable partitions and accessories after other finishing operations, including painting have been completed.
- C. Match operable partitions by installing panels from marked packages in numbered sequence indicated on Shop Drawings.
- D. Broken, cracked, chipped, deformed, or unmatched panels are not acceptable.

### **3.2 CLEANING AND PROTECTION**

- A. Clean partition surfaces upon completing installation of operable partitions to remove dust, dirt, adhesives, and other foreign materials according to manufacturer's written instructions.
- B. Provide final protection and maintain conditions in a manner acceptable to the manufacturer and installer that ensure operable partitions are without damage or deterioration at time of Substantial Completion.

### **3.3 ADJUSTING**

- A. Adjust operable partitions to operate smoothly, easily, and quietly, free from binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Lubricate hardware and other moving parts.

### **3.4 EXAMINATION**

- A. Examine flooring, structural support, and opening, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of operable partitions. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.5 DEMONSTRATION**

- A. Demonstrate proper operation and maintenance procedures to Owner's representative.
- B. Provide Operation and Maintenance Manual to Owner's representative.

**SECTION 10 28 13 - TOILET AND BATH ACCESSORIES**

**PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
  - 1. Public-use washroom accessories.

1.3 SUBMITTALS

- A. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.
  - 1. Identify locations using room designations indicated on Drawings.
- B. Maintenance Data: For toilet and bath accessories to include in maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Source Limitations: For products listed together in the same articles in Part 2, provide products of same manufacturer unless otherwise approved by Architect.

1.5 COORDINATION

- A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

**PART 2 - PRODUCTS**

2.1 MATERIALS

- A. Stainless Steel: ASTM A 666, Type 304, 0.0312-inch minimum nominal thickness, unless otherwise indicated.
- B. Steel Sheet: ASTM A 1008/A 1008M, Designation CS (cold rolled, commercial steel), 0.0359-inch minimum nominal thickness.
- C. Galvanized Steel Sheet: ASTM A 653/A 653M, with G60 hot-dip zinc coating.
- D. Galvanized Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
- E. Fasteners: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant where exposed, and of galvanized steel where concealed.
- F. Chrome Plating: ASTM B 456, Service Condition Number SC 2 (moderate service).
- G. Mirrors: ASTM C 1503, Mirror Glazing Quality, clear-glass mirrors, nominal 6.0 mm thick.
- H. ABS Plastic: Acrylonitrile-butadiene-styrene resin formulation.

2.2 PUBLIC-USE WASHROOM ACCESSORIES

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. American Specialties, Inc.
  - 2. Bobrick Washroom Equipment, Inc.
  - 3. Bradley Corporation.
- B. Grab Bar – Where this designation is indicated, provide stainless-steel grab bar complying with the following:
  - 1. Products: ASI No. 3200P (non-slip) or equal by approved manufacturers. Grab bars to have concealed mounting and required anchors, imbedding plate and fasteners to provide an installation meeting ADA requirements. Mounted 34” to center, locate as directed.
  - 2. Mounting: Flanges with concealed fasteners.
  - 3. Material: Stainless steel, 0.05 inch thick.
    - a. Finish: Smooth, No. 4, satin finish on ends and slip-resistant texture in grip area.
  - 4. Outside Diameter: 1-1/2 inches.
  - 5. Configuration and Length: As indicated on Drawings.
- C. Mirror Unit – Where this designation is indicated, provide mirror unit complying with the following:
  - 1. Products: ASI No. 0600-A or equal by approved manufacturer. Mounted 40” from finish floor to lowest reflecting surface.
  - 2. Frame: Stainless steel, fixed.
    - a. Corners: Welded and ground smooth.
  - 3. Size: As indicated on Drawings.
- D. Robe Hook – Where this designation is indicated, provide robe hooks complying with the following:
  - 1. Products: ASI No. 7340-B or equal by approved manufacturer. Mounted 54” to center, unless noted otherwise.
- H. Folding Shower Seat:
  - 1. Products: Bobrick, B-5181 or equal by approved manufacturer.
  - 2. Configuration: L-shaped seat, designed for wheelchair access.
  - 3. Seat: Phenolic or polymeric composite of slat-type or one-piece construction in color as selected by Architect.
  - 4. Mounting Mechanism: Stainless steel, No. 4 finish (satin)

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5. Dimensions: 33" W by 22 5/16" D
- I. Soap/Shampoo Shelf (Provide one per shower)
  1. Products: Bobrick, B-295 x custom length or equal by approved manufacturer.
  2. Description: Stainless steel shelf, 5" W x 8" L. (verify)
  3. Mounting: Surface mounted.
  4. Material and Finish: Stainless Steel, No. 4 finish (satin).
- J. Diaper-Changing Station
  1. Products: Bobrick, B-2200 or equal by approved manufacturer.
  2. Description: Horizontal unit that opens by folding down from stored position and with child-protection strap.
    - a. Engineered to support a minimum of 250-lb static load when opened.
  3. Mounting: Surface mounted, with unit projecting not more than 4 inches from wall when closed.
  4. Operation: By pneumatic shock-absorbing mechanism.
  5. Material and Finish: High density polyethylene in manufacturer's standard color.
  6. Liner Dispenser: Built in.

2.3 CUSTODIAL ACCESSORIES

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  1. American Specialties, Inc.
  2. Bobrick Washroom Equipment, Inc.
  3. Bradley Corporation.
- B. Mop and Broom Holder – Where indicated, provide mop strip unit complying with the following:
  1. Products: ASI No. 7340-B or equal by approved manufacturer. Mounted 54" to center, unless noted otherwise.
  2. Length: 36 inches.
  3. Hooks: Three.
  4. Mop/Broom Holders: Four, spring-loaded, rubber hat, cam type.
  5. Material and Finish: Stainless steel, No. 4 finish (satin).
    - a. Shelf: Not less than nominal 0.05-inch- thick stainless steel.
    - b. Rod: Approximately 1/4-inch- diameter stainless steel.

2.4 FABRICATION

- A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.
- B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of 2 keys to Owner's representative.

PART 3 - EXECUTION

3.1 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.
- B. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to method in ASTM F 446.

3.2 ADJUSTING AND CLEANING

- A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.
- B. Remove temporary labels and protective coatings.
- C. Clean and polish exposed surfaces according to manufacturer's written recommendations.

PART 4 – SCHEDULE OF ACCESSORIES

Room 103 to have:

1 mop strip

Room 114 to have:

2 mirrors (18"x36")

1 robe hook

1 grab bar – 36" rear of water closet

1 grab bar – 42" to side of water closet

1 grab bar – 18" to side of water closet- vertical

2 soap/shampoo shelves

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4 shower curtains, rods, hooks and curtains

1 grab bar – 48” rear of shower

2 grab bars – 30” each side of shower

Furnished by owner, installed by contractor – 1 soap dispenser, 1 toilet paper dispenser, 1 paper towel dispenser

Room 116 to have:

2 mirrors (18”x36”)

1 robe hook

1 grab bar – 36” rear of water closet

1 grab bar – 42” to side of water closet

1 grab bar – 18” to side of water closet- vertical

2 soap/shampoo shelves

4 shower curtains, rods, hooks and curtains

1 grab bar – 48” rear of shower

2 grab bars – 30” each side of shower

Furnished by owner, installed by contractor – 1 soap dispenser, 1 toilet paper dispenser, 1 paper towel dispenser, 1 sanitary napkin disposal

Room 117, 129, 145,149, 206 each to have:

1 mirror (18”x36”)

1 robe hook

1 grab bar – 36” rear of water closet

1 grab bar – 42” to side of water closet

1 grab bar – 18” to side of water closet- vertical

1 diaper-changing station

Furnished by owner, installed by contractor – 1 soap dispenser, 1 toilet paper dispenser, 1 paper towel dispenser, 1 sanitary napkin disposal

Room 121 to have:

2 mirrors (18”x36”)

1 robe hook

1 grab bar – 36” rear of water closet

1 grab bar – 42” to side of water closet

1 grab bar – 18” to side of water closet- vertical

Furnished by owner, installed by contractor – 1 soap dispenser, 2 toilet paper dispensers, 1 paper towel dispenser, 2 sanitary napkin disposal

Room 123 to have:

2 mirrors (18”x36”)

1 robe hook

1 grab bar – 36” rear of water closet

1 grab bar – 42” to side of water closet

1 grab bar – 18” to side of water closet- vertical

Furnished by owner, installed by contractor – 1 soap dispenser, 1 toilet paper dispenser, 1 paper towel dispenser

Room 128, 144, 216 each to have:

1 mirror (18”x36”)

1 robe hook

Furnished by owner, installed by contractor – 1 soap dispenser, 1 toilet paper dispenser, 1 paper towel dispenser

END OF SECTION 10 28 13