THRASHER

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ROANE COUNTY FAMILY HEALTH CARE
ROANE COUNTY, WEST VIRGINIA

ROANE COUNTY FAMILY HEALTH CARE RENOVATIONS

ADDENDUM #2

MARCH 18, 2022

THRASHER PROJECT #060-10284

TO WHOM IT MAY CONCERN:

A Pre-Bid Conference was held Thursday, March 10, 2022, on the above-referenced project. The following are clarifications and responses to questions posed by contractors for the above reference project.

A. GENERAL

Virtual Bid Opening will be via live stream on Thursday, March 24, 2022 at 2:00 p.m. You may watch by joining the following Teams link: Roane Co. Family Health Bid Opening or you may call in at 304-935-0841 Pin 945260977#

B. SPECIFICATIONS

1. Added Specification - 054000 Cold Formed Metal Framing
2. Added Specification - 079200 Joint Sealants
3. Added Specification - 099113 Exterior Painting

C. DRAWINGS

None

D. QUESTIONS AND RESPONSES

QUESTION

1. Referring to the 6" C-Stud Framing: Will a Cold-Formed Metal Framing specification be provided? Will stamped engineered drawings be required?

RESPONSE

Cold-Formed Metal Framing specification is attached to this addendum.

QUESTION

2. Referring to the Metal Flashing on Fiber Cement Panel Condition - 1 & Metal Flashing on Fiber Cement Panel Condition - 2 on Sheet A5.01: Are we to route out the mortar and tuck the Metal Flashing into the brick veneer and then run a continuous bead of sealant that matches the Metal Flashing?

RESPONSE

Attach flashing to face of existing brick.

QUESTION

3. Referring to "Z" Flashing at Window Head Detail on Sheet A5.01 & Door Head Detail on Sheet A5.02: The detail states 1/4" clearance from edge of panel to flashing, what is required into the existing brick façade for the "Z" Flashing?

RESPONSE

Attach flashing to face of existing brick.

QUESTION

4. Is there a Door Hardware spec?

RESPONSE

Provide new door hardware to match existing make and model. Reinstall existing ADA door opener.

QUESTION

5. Referring to Sheet A1.03 - Aluminum Sliders: Will specifications be provided for the Aluminum Sliders or do they fall under Section 084113 - Aluminum-Framed Entrances & Storefront specifications?

RESPONSE

Reference aluminum framed entrances and storefront.

QUESTION

6. Work Hours: Will evening shift be required for the interior renovation work at rooms 100 & 101 and for the electrical rough-in requirements for the raceways needed to power the signage at the penthouse and the signage between the third and fourth floor?

RESPONSE

Evening shift is not a requirement.

QUESTION

7. Referring to Specification 074646 Fiber Cement Siding 1.6 WARRANTY
A. Special Warranty: Manufacturer agrees to repair or replace products that fail in materials or workmanship within specified warranty period. 1. Warranty Period: 50 years from date of Substantial Completion.

RESPONSE

Provide manufacturer’s standard 30-year limited warranty.

QUESTION

8. Referring to Sheet A1.01 4/A1.03, 5/A1.03, 6/A1.03 7/A1.03 & 8/A1.03 - 4" Rubber Base:
   a. Shall all new 4" rubber base be included in the bid?
   b. Sheet A1.03 Keyed Notes Note # 1 states provide new ceramic tile and cove base. Is the intent to install a tile base?
   c. If being provided by the General Contractor, will a Resilient Wall Base & Accessories specification be provided?

RESPONSE

Ceramic tile base shall be installed at ceramic floor tile locations. New rubber base will be installed under a separate contract.

QUESTION

9. Referring to Demolition Keyed Notes, Note # 1: Remove existing wall paper and strip adhesives:
   a. What is the intent of the wall and ceiling finishes within the areas where existing wall paper and stripping of adhesives?
   b. If painting is the intent, will a Interior Painting specification be provided?

RESPONSE

New wall paper will be installed under a separate contract.

QUESTION

10. Referring to Specification 093013 Ceramic Tiling:
    B. Interior Wall Installations, Metal Studs or Furring:
    1. Ceramic Tile Installation: TCNA W243; thinset mortar on gypsum board.
    a. Ceramic Tile Type: Porcelain.
    b. Thinset Mortar: Latex Modified dry-set mortar.
    c. Grout: High-performance unsanded grout.
    Are the walls schedule to received ceramic tiling?

RESPONSE

No. Floor tile only.

QUESTION

11. Referring to Sheet A2.01, Elevation Keyed Note 6 - Paint existing canopies & Keyed Note 7 - Paint existing concrete walls:
    Will a Exterior Painting specification be provided?

RESPONSE

Exterior Painting specification is attached to this addendum.

QUESTION

12. Referring to Sheets A2.01, A5.02 & Specification 105020:
    2.4 ACCESSORIES
    A. Downspouts 2” x 3” Finished to match canopy color.

Are we to assume the discharging of storm water from the new canopy downspouts to existing exterior surfaces, concrete, asphalt, landscaping, etc.?

RESPONSE
Direct storm water away from entrance discharging to existing asphalt.

QUESTION

13. Referring to Sheet A2.01, Note # 9 Dimensional letter signage on pre-manufactured metal canopy:
Will signage specifications be provided?

RESPONSE
Provide dimensional letter signage as indicated on drawings.

QUESTION

14. Referring to Sheet A2.01, Note 8 Channel letter signage. Provide a separate power circuit for each sign from the panel shown on A1.02. Overload protection and wire size shall meet the manufacturers specification for each sign. Conduit and copper shall be installed per NEC for all circuits:
Will a signage specification and any electrical specifications be provided?

RESPONSE
Provide channel letter signage and power supply as indicated on drawings.

QUESTION

15. Referring to Demolition Keyed Note # 2. Remove existing flooring and wall base down to concrete. Strip adhesive residue:
Is there an asbestos report available?

RESPONSE
Yes, there is no asbestos. An asbestos report can be provided to the successful contractor.

QUESTION

16. Referring to Demolition Keyed Note # 3. Remove existing wall:
When removing the existing wall will there be a requirement to patch ceilings "acoustical ceilings and/or gypsum board ceiling" with in room 100 and outside of room 100?

RESPONSE
No, the wall is not full height.

QUESTION

17. This project will require the need for a lot of sealants. I did not see any joint sealants language within the Fiber Cement Board specification, nor do I see a Joint Sealant specification:
Will a Joint Sealants specification be provided?

RESPONSE
Joint Sealant specification is attached to this addendum.

QUESTION

18. Referring to the RFB: The Work will be substantially completed by July 15, 2022 and ready for final payment by July 31, 2022. Liquidated damages shall be $1,000 per day: Does the value of the interior and exterior renovations warrant $1,000.00 per day liquidated damages when the Owner is not subject to lose revenue by remaining open for business during the renovations?

RESPONSE

The project **must be completed** by July 31, 2022.

QUESTION

19. Referring to the RFB: A bidder may not withdraw his bid for a period of ninety (90) days after the date set for the opening of bids:
Can the bid hold be reduced to thirty (30) days after the date set for the openings of the bids? See question 18 for additional information.

RESPONSE

Revise bid hold period to thirty (30) days.

QUESTION

20. Now that COVID19 appears not not be such a major issue, wars and rumors of wars is creating additional havoc on the supply chain:
Should there be a delay in receiving materials, will additional days be given to complete the project?

RESPONSE

Additional days will not be given. Substitutions will be considered upon written proof of long lead times or material shortages.

QUESTION

21. Please provide Painting and/or Wallcovering Specifications.

RESPONSE

New wall paper will be installed under a separate contract.

QUESTION

22. Please provide Specifications for Aluminum Window Sliders

RESPONSE

Reference aluminum framed entrances and storefront.

QUESTION

23. Please provide finish schedule.

RESPONSE

Finishes are indicated on Sheet A1.03.

24. Due to new wall not in same location as demolished existing wall:
    A. Please address existing ceiling and new ceiling.
    B. Please address flooring outside of reception area.
    C. Please address new wall transition to existing wall and finishes.

RESPONSE
A. Existing ceiling to remain.
B. New flooring will be installed under a separate contract.
C. New wall paper will be installed under a separate contract.

QUESTION
25. Please address existing signage at Reception. (Who is responsible for removal/salvage/re-use?)

RESPONSE
Contractor to remove existing signage, retain for Owner.

QUESTION
26. Are existing wall cabinets in room adjacent to Reception to be removed/salvaged/reused?

RESPONSE
Existing wall cabinets to remain.

QUESTION
27. Please provide Specifications for Signage.

RESPONSE
Provide dimensional letter signage and channel letter signage as indicated on drawings.

QUESTION
28. Please provide Painting Specifications

RESPONSE
Exterior Painting specification is attached to this addendum.

QUESTION
29. Please provide metal stud specifications

RESPONSE
Cold-Formed Metal Framing specification is attached to this addendum.

E. CLARIFICATIONS

1. Revise bid hold period to thirty (30) days.

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until 2:00 p.m. on Thursday, March 24, 2022 at The Thrasher Group, 160 Association Drive, Charleston, WV 25311. Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.

Amanda Cheuvront, AIA, NCARB
Project Manager

SECTION 054000 - COLD-FORMED METAL FRAMING

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Formed steel stud exterior wall and interior wall framing.

1.2 RELATED REQUIREMENTS

A. Section 053100 - Steel Decking.

1.3 REFERENCE STANDARDS

A. AISI S100-12 - North American Specification for the Design of Cold-Formed Steel Structural Members; American Iron and Steel Institute; 2012.

B. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2016a.

C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2015.

D. ASTM C955 - Standard Specification for Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases; 2015.

E. ASTM C1007 - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories; 2011a (Reapproved 2015).

F. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2015 (with March 2016 Errata).

G. AWS D1.3/D1.3M - Structural Welding Code - Sheet Steel; 2008.

H. SSPC-Paint 20 - Zinc-Rich Primers (Type I, "Inorganic," and Type II, "Organic"); 2002 (Ed. 2004).

1.4 ADMINISTRATIVE REQUIREMENTS

A. Coordinate with work of other sections that is to be installed in or adjacent to the metal framing system, including but not limited to structural anchors, cladding anchors, utilities, insulation, and firestopping.

1.5 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on standard framing members; describe materials and finish, product criteria, limitations.

C. Product Data: Provide manufacturer's data on factory-made framing connectors, showing compliance with requirements.

D. Shop Drawings: Indicate component details, framed openings, bearing, anchorage, loading, welds, and type and location of fasteners, and accessories or items required of related work.
   1. Indicate stud and parapet layout.
   2. Describe method for securing studs to tracks and for bolted framing connections.
   3. Provide design engineer's stamp on shop drawings.
   4. Submit sealed calculations for light gage delegated design.

E. Manufacturer's Installation Instructions: Indicate special procedures, conditions requiring special attention.

1.6 QUALITY ASSURANCE

A. Designer Qualifications: Cost of delegated design shall be bourne by the Contractor. Design framing system under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed in West Virginia.

B. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this section, and with minimum three years of documented experience.

C. Installer Qualifications: Company specializing in performing the work of this section with minimum three years documented experience and approved by manufacturer.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Metal Framing:
1. ClarkDietrich Building Systems: www.clarkdietrich.com.
2. Marino: www.marinoware.com.
3. The Steel Network, Inc: www.SteelNetwork.com.

B. Framing Connectors and Accessories:
1. Same manufacturer as metal framing.

2.2 FRAMING SYSTEM

A. Provide primary and secondary framing members, bridging, bracing, plates, gussets, clips, fittings, reinforcement, and fastenings as required to provide a complete framing system.

B. Design Criteria: Provide completed framing system having the following characteristics:
1. Design: Calculate structural characteristics of cold-formed steel framing members according to AISI S100-12.
2. Structural Performance: Design, engineer, fabricate, and erect to withstand specified design loads for project conditions within required limits.
3. Design Loads: In accordance with applicable codes.
4. Live load deflection meeting the following, unless otherwise indicated:
   a. Exterior Walls: Maximum horizontal deflection under wind load of 1/360 of span.
   b. Design non-axial loadbearing framing to accommodate not less than 1/2 in vertical deflection.
5. Able to tolerate movement of components without damage, failure of joint seals, undue stress on fasteners, or other detrimental effects when subject to seasonal or cyclic day/night temperature ranges.
6. Able to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.

C. Shop fabricate framing system to the greatest extent possible.

D. Deliver to site in largest practical sections.

2.3 FRAMING MATERIALS

A. Studs and Track: ASTM C955; studs formed to channel, "C", or "Sigma" shape with punched web; U-shaped track in matching nominal width and compatible height.

1. Gage as required and Depth as indicated on architectural drawings: As required to meet specified performance levels.
2. Galvanized in accordance with ASTM A653/A653M, G90/Z275 coating.

B. Framing Connectors: Factory-made, formed steel sheet.
1. Material: ASTM A653/A653M SS Grade 33 and 40 (minimum), with G90/Z275 hot dipped galvanized coating for base metal thickness less than 10 gage, 0.1345 inch, and factory punched holes and slots.
2. Structural Performance: Maintain load and movement capacity required by applicable code, when evaluated in accordance with AISI S100-12.
3. Movement Connections: Provide mechanical anchorage devices that accommodate movement using slotted holes, screws and stepped bushings, while maintaining structural performance of framing. Provide movement connections at all locations where studs attach to structure above..
   a. Where continuous studs bypass elevated floor slab or roof, connect stud to structure in manner allowing vertical and horizontal movement of slab without affecting studs; allow for minimum movement of 1/2 inch.
   b. Where top of stud wall terminates below structural floor or roof, connect studs to structure in manner allowing vertical and horizontal movement of slab without affecting studs; allow for minimum movement of 1/2 inch.
4. Fixed Connections: Provide non-movement connections for tie-down to foundation, floor-to-floor tie-down, roof-to-wall tie-down, joist hangers, gusset plates, and stiffeners.
5. Wall Stud Bridging Connections: Provide mechanical load-transferring devices that accommodate wind load torsion and weak axis buckling induced by axial compression loads. Provide bridging connections as required by vendors engineer..

2.4 ACCESSORIES

A. Bracing, Furring, Bridging: Formed sheet steel, thickness determined for conditions encountered; finish to match framing components.

B. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20, Type I - Inorganic, complying with VOC limitations of authorities having jurisdiction.

2.5 FASTENERS

A. Self-Drilling, Self-Tapping Screws, Bolts, Nuts and Washers: Hot dip galvanized per ASTM A153/A153M.
1. Products:
   a. ITW Commercial Construction North America; ITW CCNA-Buildex Teks Select Series: www.ITWBuildex.com.

B. Anchorage Devices: Powder actuated.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that substrate surfaces are ready to receive work.

B. Verify field measurements and adjust installation as required.

3.2 INSTALLATION OF STUDS

A. Install components in accordance with manufacturers' instructions and ASTM C1007 requirements.

B. Align floor and ceiling tracks; locate to wall layout. Secure in place with fasteners at maximum 24 inches on center. Coordinate installation of sealant with floor and ceiling tracks.

C. Place studs at 16 inches on center; not more than 2 inches from abutting walls and at each side of openings. Connect studs to tracks using clip and tie method.

D. Construct corners using minimum of three studs. Install double studs at wall openings, door and window jambs.

E. Install load bearing studs full length in one piece. Splicing of studs is not permitted.

F. Install load bearing studs, brace, and reinforce to develop full strength and achieve design requirements.

G. Coordinate placement of insulation in multiple stud spaces made inaccessible after erection.

H. Install intermediate studs above and below openings to align with wall stud spacing.

I. Provide deflection allowance in stud track, directly below horizontal building framing at non-load bearing framing.

J. Attach cross studs to studs for attachment of fixtures anchored to walls.

K. Install framing between studs for attachment of mechanical and electrical items, and to prevent stud rotation.

L. Touch-up field welds and damaged galvanized surfaces with primer.

END OF SECTION

SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Silicone joint sealants.
2. Urethane joint sealants.
3. Mildew resistant silicone.
4. Butyl rubber.

1.2 PREINSTALLATION MEETINGS

1.3 ACTION SUBMITTALS

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

B. Samples: For each kind and color of joint sealant required.

1.4 INFORMATIONAL SUBMITTALS

A. Product test reports.

B. Sample warranties.

1.5 WARRANTY

A. Special Installer's Warranty: Installer agrees to repair or replace joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.

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

B. Special Manufacturer's Warranty: Manufacturer agrees to furnish joint sealants to repair or replace those joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.

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

PART 2 - PRODUCTS

2.1 JOINT SEALANTS, GENERAL

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

2.2 SILICONE JOINT SEALANTS (for all applications not otherwise noted or required by a specific product manufacturer)

A. Silicone, S, NS, 50, NT: Single-component, nonsag, plus 50 percent and minus 50 percent movement capability, nontraffic-use, neutral-curing silicone joint sealant; ASTM C 920, Type S, Grade NS, Class 50, Use NT.

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

a. Dow Corning Corporation.
b. GE Construction Sealants; Momentive Performance Materials Inc.
c. Sika Corporation; Joint Sealants.

2.3 URETHANE JOINT SEALANTS (use only when designated on drawings)

A. Urethane, S, NS, 25, T, NT: Single-component, nonsag, plus 25 percent and minus 25 percent movement capability, traffic- and nontraffic-use, urethane joint sealant; ASTM C 920, Type S, Grade NS, Class 25, Uses T and NT.

2.4 MILDEW-RESISTANT JOINT SEALANTS (for wet areas including shower rooms, locker rooms, restrooms, kitchens, janitor closets, utility rooms or any room exposed to heavier than normal water exposure)

A. Mildew-Resistant Joint Sealants: Formulated for prolonged exposure to humidity with fungicide to prevent mold and mildew growth.

B. Silicone, Mildew Resistant, Acid Curing, S, NS, 25, NT: Mildew-resistant, single-component, nonsag, plus 25 percent and minus 25 percent movement capability, nontraffic-use, acid-curing silicone joint sealant; ASTM C 920, Type S, Grade NS, Class 25, Use NT.

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

a. Dow Corning Corporation.
b. GE Construction Sealants; Momentive Performance Materials Inc.
c. Tremco Incorporated.

2.5 JOINT-SEALANT BACKING

A. Cylindrical Sealant Backings: ASTM C 1330, Type C closed-cell material with a surface skin, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

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

a. Alcot Plastics Ltd.
b. BASF Corp. - Construction Chemicals.
c. Construction Foam Products; a division of Nomaco, Inc.

B. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer.

2.6 MISCELLANEOUS MATERIALS

A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.

B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials.

C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 PREPARATION

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

1. Remove laitance and form-release agents from concrete.
2. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion.

B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience.

C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces.

3.2 INSTALLATION OF JOINT SEALANTS

A. General: Comply with ASTM C 1193 and joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.

B. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.

C. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.

D. Install sealants using proven techniques that comply with the following and at the same time backings are installed:

1. Place sealants so they directly contact and fully wet joint substrates.
2. Completely fill recesses in each joint configuration.
3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

E. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.

1. Provide concave joint profile per Figure 8A in ASTM C 1193 unless otherwise indicated.

3.3 JOINT-SEALANT SCHEDULE

A. Joint-Sealant Application: Exterior joints in horizontal traffic surfaces JS-#1.

1. Joint Locations:
   a. Isolation and contraction joints in cast-in-place concrete slabs.
   b. Control and expansion joints.
   c. Other joints as indicated on Drawings.

2. Joint Sealant: Urethane, M, P, 50, T.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

B. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal nontraffic surfaces JS-#2.

1. Joint Locations:
   a. Control and expansion joints in unit masonry.
   b. Other joints as indicated on Drawings.

2. Joint Sealant: Silicone, S, NS, 50, NT.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

C. Joint-Sealant Application: Interior joints in horizontal traffic surfaces JS-#3.

1. Joint Locations:

a. Isolation joints in cast-in-place concrete slabs.
b. Other joints as indicated on Drawings.

2. Joint Sealant: Urethane, S, P, 25, T, NT.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

D. Joint-Sealant Application: Interior joints in vertical surfaces and horizontal nontraffic surfaces JS-#4.

1. Joint Locations:

a. Control and expansion joints on exposed interior surfaces of exterior walls.
b. Tile control and expansion joints.
c. Vertical joints on exposed surfaces of unit masonry walls and partitions.
d. Other joints as indicated on Drawings.

2. Joint Sealant: Urethane, S, NS, 25, NT.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

E. Joint-Sealant Application: Mildew-resistant interior joints in vertical surfaces and horizontal nontraffic surfaces JS-#5.

1. Joint Locations:

a. Joints between plumbing fixtures and adjoining walls, floors, and counters.
b. Other joints in Restrooms, Locker Rooms and Utility Rooms, and as indicated on Drawings.

2. Joint Sealant: Silicone, mildew resistant, acid curing, S, NS, 25, NT.
3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

F. Joint-Sealant Application: Concealed mastics JS-#6.

1. Joint Locations:

a. Aluminum thresholds.
b. Sill plates.
c. Other joints as indicated on Drawings.

2. Joint Sealant: Butyl-rubber based.
3. Joint-Sealant Color: Black.

END OF SECTION 079200

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SECTION 099113 - EXTERIOR PAINTING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes surface preparation and the application of paint systems on the following exterior substrates:

1. Steel and iron.
2. Galvanized metal.

1.2 DEFINITIONS

A. MPI Gloss Level 1: Not more than five units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523.

B. MPI Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.

C. MPI Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D 523.

D. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523.

E. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.

F. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product. Include preparation requirements and application instructions.

1. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.

B. Samples: For each type of paint system and each color and gloss of topcoat.

1.4 QUALITY ASSURANCE

A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Architect will select one surface to represent surfaces and conditions for application of each paint system.

2. Final approval of color selections will be based on mockups.

    a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

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

1. Coronado Paint; Benjamin Moore Company.
2. PPG Paints.
3. Pratt & Lambert.
4. Sherwin-Williams Company (The).

2.2 PAINT, GENERAL

A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."

B. Material Compatibility:

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

C. Colors: As selected by Architect from manufacturer's full range.

1. Fifty percent of surface area will be painted with deep tones.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.

C. Proceed with coating application only after unsatisfactory conditions have been corrected.

1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.

B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.

3.3 APPLICATION

A. Apply paints according to manufacturer's written instructions and recommendations in "MPI Manual."

B. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

3.4 CLEANING AND PROTECTION

A. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.

B. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.5 EXTERIOR PAINTING SCHEDULE

A. Steel and Iron Substrates:

1. Alkyd System MPI EXT 5.1Q:

a. Prime Coat: Shop primer specified in Section where substrate is specified.

b. Intermediate Coat: Exterior, alkyd enamel, matching topcoat.

c. Topcoat: Alkyd, exterior, semi-gloss (MPI Gloss Level 5), MPI #94].

B. Galvanized-Metal Substrates:

1. Alkyd System MPI EXT 5.3B:

a. Prime Coat: Primer, galvanized, cementitious, MPI #26.

b. Intermediate Coat: Exterior, alkyd enamel, matching topcoat.

c. Topcoat: Alkyd, exterior, semi-gloss (MPI Gloss Level 5), MPI #94.

END OF SECTION 099113