



ADDENDUM No.5

The following additions, deletions, and/or changes or clarifications to the drawings, specifications, and bidding documents for this project, shall become and are hereby made part of the Contract Documents. They change the original documents only in the manner and to the extent stated. Each bidder shall acknowledge receipt of this Addendum in the appropriate location on the bid proposal form.

This addendum consists of 2 pages, and 0 drawings and 2 other attachments.

Specifications

Item 001 000110 Table of Contents

Add "224216.16 Commercial Sinks"

Add "281500 Integrated Access Control Hardware Devices

See the attached 000110 Table of Contents

Item 001 088000 Glazing Part 2.7 G. Decorative Window Film

Add "Part 2.7 G. 1 Provide Basis of Design Product Fasara Glass Finishes Luce (SH2FGLU) by 3M.

a. Other available products:

1. Lintech Mitlass Decorative film
2. LLumar By Eastman Performance films."

Item 002 224216.16 Commercial Sinks

Add new section issued with date 2/12/2025. See the Attached Section 224216.16

Item 002 251000 Direct Digital/Automatic Temperature Controls - Part 1.11.A

Delete "2. Johnson Controls"

Delete "3. Schneider Electric – StruxureWare"

Add "1.11.D See Siemens budget proposal dated 1/10/2025 for reference, located immediately following this specification section."

Item 003 283111 Digital, Addressable Fire-Alarm System – Part 2.1 System Description

Add "F. Work of this section shall be completed by the Campus Fire Alarm System vendor EveronSolutions."

Add "F.1. See Everon proposal that references 11/11/2024 documents for reference located immediately following this specification section."

Drawings:

Item 004 Sheet A1.00

The callout for interior elevations 6,7,8,9/A7.01 that is noted in room 0008 is typical at rooms 0004, 0005, 0007, and 0008.

Item 005 Sheet A1.01

The callout for interior elevations 6,7,8,9/A7.01 that is noted in room 1000G is typical at rooms 1000A, 1000E, 1000G, 1000H, 1002A, and 1002B.

Item 006 Sheet A1.01

The callout for interior elevations 11,12,13,14/A7.01 at room 1000C is typical at rooms 1000A, 1000C, and 1000D.

Item 007 Sheet A8.10

Drawing 1 frame Type 2 and frame Type 3 – Revise to show Glazing Film, 4'-0" high by the width of the side light glazing.

Item 008 Sheet A8.21 - Drawing 5

Delete Sink basin dimensions of 1'-4" and 6 ½"

Item 009 Sheet A8.21 - Drawing 10

Delete Sink basin dimensions of 1'-4" and 6 ½"

Item 010 Sheet A10.10

Add – "General Note – See A1.00 for typical interior elevation callouts showing wall mounted shelving, built in casework and inwall blocking to be provided by the Contractor at rooms 0004, 0005, 0007, and 0008."

Item 011 Sheet A10.11

Add – "General Note – See A1.01 for typical interior elevation callouts showing wall mounted shelving, built in casework and inwall blocking to be provided by the Contractor at rooms 1000A, 1000B, 1000C, 1000D, 1000E, 1000F, 1000G, 1000H, 1001A, 1001B, 1002A, 1002B, 1009A, 1009B."

Item 010 Sheet P-400 – Plumbing Fixture Schedule - Fixture tag SK-1 - Description

Delete - "See architectural drawings for basin dimensions"

Add – "See Section 224216.16 for basin dimensions"

End of ADDENDUM No. 5

00 01 10 Table of Contents

SUCF PROJECT NO. 291029-04 PROJECT TITLE: Rehab Natural Sciences Building – Bookstore Surge

Bidding Documents

SECTION TITLE

00 21 13 10 Notice to Bidders

00 21 13 15 Contractor's bid and post-bid Checklist

00 21 13 20 Information for Bidders

- 1 Definitions
- 2 Issuance of Bidding and Contract Documents
- 3 Proposals
- 4 Examination of Bidding and Contract Documents
- 5 Computation of Bid
- 6 Payment of Security
- 7 Qualification of Bidders
- 8 Submission of Post-Bid Information
- 9 Award of Contract
- 10 Required Bonds and Insurance
- 11 Requirements and Procedures for Participation by New York State -Certified Minority and Women -Owned Business Enterprises and Equal Employment Opportunities for Minority Group Members and Women
- 12 Requirements and Procedures for Participation by New York State Certified Service-Disabled Veteran-Owned Business Enterprises ("SDVOBs")
- 13 Encouraging Use of New York State Business Enterprises in Contract Performance
- 14 Single Contract Responsibility
- 15 Examination of Site
- 16 Procurement Lobbying Law Restrictions
- 17 Requirements for Construction Activities to Address Public Health or Safety

00 21 13 30 MWBE-SDVOB Utilization Plan Instructions

00 25 13 Pre-Bid Meetings

00 42 13 Proposal

00 42 13 10 Appendix A

00 43 13 Bid Bond and Acknowledgment for Bid Bond

00 43 13 10 Instructions for Execution of Bid Bond and Acknowledgment

Contract Documents

00 52 00 Agreement

Article I - General Provisions

- Section 1.01 Definitions
- Section 1.02 Captions
- Section 1.03 Nomenclature
- Section 1.04 Entire Agreement
- Section 1.05 Successors and Assigns
- Section 1.06 Accuracy and Completeness of Contract Documents
- Section 1.07 Organization of Contract Documents
- Section 1.08 Furnishing of Contract Documents
- Section 1.09 Examination of Contract Documents and Site
- Section 1.10 Invalid Provisions
- Section 1.11 No Collusion or Fraud
- Section 1.12 Notices
- Section 1.13 Singular-Plural; Male-Female

Article II - Contract Administration and Conduct

- Section 2.01 Consultant's Status

Section 2.02	Finality of Decisions
Section 2.03	Claims and Disputes
Section 2.04	Omitted Work
Section 2.05	Extra Work
Section 2.06	Contractor to Give Personal Attention
Section 2.07	Employment of Workers
Section 2.08	Detailed Drawings and Instructions
Section 2.09	Contract Documents to Be Kept at Site
Section 2.10	Permits and Building Codes
Section 2.11	Surveys
Section 2.12	Site Conditions
Section 2.13	Right to Change Location
Section 2.14	Unforeseen Difficulties
Section 2.15	Moving Materials and Equipment
Section 2.16	Other Contracts
Section 2.17	Inspection and Testing
Section 2.18	Subcontractors
Section 2.19	Shop Drawings and Samples
Section 2.20	Equivalents - Approved Equal
Section 2.21	Patents, Trademarks and Copyrights
Section 2.22	Possession Prior to Completion
Section 2.23	Completion and Acceptance
Section 2.24	Record Drawings
Section 2.25	Guarantees
Section 2.26	Default of Contractor
Section 2.27	Termination for Convenience

Article III - Time of Performance

Section 3.01	Commencement, Prosecution and Completion of Work
Section 3.02	Time Progress Schedule
Section 3.03	Time Schedule for Shop Drawings and Samples
Section 3.04	Notice of Conditions Causing Delay
Section 3.05	Extension of Time
Section 3.06	Contractor's Progress Reports

Article IV - Payment

Section 4.01	Compensation to Be Paid Contractor
Section 4.02	Value of Omitted and Extra Work
Section 4.03	Adjustment for Bond and Insurance Premiums
Section 4.04	Unit Prices
Section 4.05	Allowances
Section 4.05A	Field Orders
Section 4.06	Deductions for Unperformed and/or Uncorrected Work
Section 4.07	Liquidated Damages
Section 4.08	Contract Breakdown
Section 4.09	Prompt Payment Requirements
Section 4.10	Progress Payments
Section 4.11	Applications for Progress Payments
Section 4.12	Progress Payments for Materials Delivered to Site
Section 4.13	Transfer of Title to Materials Delivered to Site
Section 4.14	Progress Payments for Materials Stored Off Site
Section 4.15	Withholding of Progress Payments
Section 4.16	Lien Law
Section 4.17	Substitution of Securities for Retainage
Section 4.18	Final Payment
Section 4.19	Acceptance of Final Payment
Section 4.20	Guarantee Payment
Section 4.21	Acceptance of Guarantee Payment
Section 4.22	Contractor Limited to Money Damages
Section 4.23	No Estoppel or Waiver

- Section 4.24 Limitation of Actions
- Section 4.25 Electronic Payments

Article V - Protection of Rights and Property

- Section 5.01 Accidents and Accident Prevention
- Section 5.02 Adjoining Property
- Section 5.03 Emergencies
- Section 5.04 Fire Safety
- Section 5.05 Risks Assumed by Contractor
- Section 5.06 Compensation and Liability Insurance
- Section 5.07 Builder's Risk Insurance
- Section 5.08 Effect of Procurement of Insurance
- Section 5.09 No Third Party Rights

Article VI – Minority and Women’s Business Enterprises (MWBEs) / Equal Employment Opportunity (EEO) Provisions

- Section 6.01 Definitions
- Section 6.02 MBE/EEO Policy Statement
- Section 6.03 Participation by Minority Women’s Business Enterprises (MWBEs) / Equal Employment Opportunity (EEO)
- Section 6.04 Reports, Records and Documentation

Article VII - Provisions Required by Law

- Section 7.01 Provisions Deemed Inserted
- Section 7.02 Wage Rates
- Section 7.03 Iran Energy Sector Divestment

Article VIII – Vendor Responsibility

Article IX – Use of Service-Disabled Veteran-Owned Business Enterprises in Contract Performance

Signature of Parties and Governmental Approvals

Acknowledgments

Appendix “A” - Standard Clauses For New York State Contracts

Schedules I, II and III

00 52 00 Schedule A

00 61 13 10 Labor and Material Bond

00 61 13 10 Performance Bond

00 61 13 10 Acknowledgment for Bonds

00 73 43 Wage Rate Requirements

Technical Specifications

01 00 00 General Requirements – *not included yet (to be provided by the Fund Coordinator)*

- 01 11 00 Description of Work (Section A)
- 01 11 13 Coordination with Other Contracts
- 01 18 13 Utility Shutdowns and Cutovers
- 01 21 43 Time Allowances
- 01 23 00 Alternates (Section B)
- 01 26 13 Requests for Information
- 01 26 43 Amendments (Section E)
- 01 29 00 10 Payment to Campus for Utilities
- 01 31 00 Project Management Procedures

01 31 00 10	Single Contract Responsibility
01 31 00 20	Sheet-metal Fittings and Ductwork
01 31 10	Language Requirement
01 31 13 10	Exploratory Demolition
01 31 19	Field Meetings
01 31 19 10	Mock ups
01 31 19 33	Pre-Installations Meetings
01 31 26	Document Tracking and Change Control
01 32 13	Special Project Schedule/Phasing
01 32 13 10	Scheduling of Work - Contractor's Coordination with locality
01 32 13 20	Scheduling of Work - Contractor's Coordination with the with utility companies
01 32 16	Project Schedule
01 32 29	Notice of Non-Compliance
01 32 33	Project Photographs
01 32 33 10	Photo Documentation Services
01 32 33 30	Roof Inspection
01 33 23	Shop Drawings, Samples, Submittals and other information
01 33 23 20	Coordination Drawings
01 33 29	Sustainable Design Reporting
01 35 10	Archeological or Historical Finds
01 35 13	Conducting Work
01 35 13 10	Salvage of Materials
01 35 23	Safety and Protective Facilities
01 35 23 10	Safety Data Sheet
01 35 29 10	Public Health/Safety Requirements and Guidance for Construction Jobsites
01 35 43	Environmental Procedures
01 35 73	Delegated Design
01 41 13	Code Compliance and Testing
01 41 16	Laws
01 51 13	Temporary Power for Construction Activities
01 51 16	Temporary Fire Protection
01 51 23	Temporary Heating and Cooling
01 51 26	Temporary Light
01 51 36	Temporary Water for Construction Purposes
01 52 13	Field Office for the Consultant
01 52 19	Temporary Sanitary Facilities
01 54 13	Use of Elevator(s) for Construction
01 55 19	Temporary Parking
01 55 26	Traffic Control during Construction
01 55 29	Staging Area and Storage of Materials
01 56 19	Noise Mitigation Measures
01 57 23	Storm Water Construction Permit Responsibilities
01 58 13	Project Sign
01 60 00 10	U.S. Steel
01 60 00 20	Non Asbestos Products
01 60 00 30	Products
01 64 00	Campus-Furnished Products
01 66 00	Equipment Storage and Handling Requirements
01 71 23	Field Engineering
01 71 36	Non-Destructive Building Examination
01 73 00 10	Information required for Rebates, Grants, Awards and/or other Programs
01 73 29	Cutting, Patching and Repairs
01 74 00	Clean Up
01 74 16	Payment for Planting Maintenance
01 74 19	Construction Waste Management
01 75 10	Consumables used during the Work
01 78 23	Operations and Maintenance Manuals (O&M's)
01 78 36	Warranties
01 78 39	Project Record Documents
01 79 00	Training of Campus Personnel

01 00 00 General Requirement Reference Documents – *not included yet*

1. 01 33 23 Submittal Log
2. 01 35 23 Construction Fire Safety Weekly Review form
3. 01 41 13 Statement of Special Inspections forms
4. Campus specific general requirements, if any

Additional Division 01 General Requirements Sections

018117 Low Emitting Material Requirements
018119 Construction Indoor Air Quality Management

DIVISION 02 - EXISTING CONDITIONS

024119 SELECTIVE STRUCTURE DEMOLITION AND REMOVALS
028213 ASBESTOS ABATEMENT
028313 LEAD REMEDIATION

DIVISION 03 – CONCRETE

035416 HYDRAULIC CEMENT UNDERLAYMENT

DIVISION 04 - MASONRY - not used

DIVISION 05 - METALS

054000 COLD FORMED METAL FRAMING
055000 METAL FABRICATIONS

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

061053 MISCELLANEOUS ROUGH CARPENTRY
064020 INTERIOR ARCHITECTURAL WOODWORK
066116 SOLID SURFACE MATERIAL FABRICATIONS

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

078413 PENETRATION FIRESTOPPING
078446 FIRE-RESISTIVE JOINT SYSTEMS
079200 JOINT SEALANTS

DIVISION 08 - OPENINGS

080671 DOOR HARDWARE SCHEDULE
081113 HOLLOW METAL DOORS AND FRAMES
083113 ACCESS DOORS AND FRAMES
084113 ALUMINUM ENTRANCES AND STOREFRONTS
087100 DOOR HARDWARE

088000 GLAZING

DIVISION 09 - FINISHES

092216 NON-STRUCTURAL METAL FRAMING
092900 GYPSUM BOARD
095113 ACOUSTICAL PANEL CEILINGS
096500 RESILIENT FLOORING AND ACCESSORIES
096813 TILE CARPETING
097750 FIBERGLASS REINFORCED PLASTIC PANELS
099100 PAINTING

DIVISION 10 - SPECIALTIES

101000 VISUAL DISPLAY SURFACES
101400 SIGNAGE
 Attachment: Signage Package
102600 WALL AND DOOR PROTECTION
105200 FIRE PROTECTION SPECIALTIES
105713 HAT AND COAT RACKS

DIVISION 11 - EQUIPMENT

115213 PROJECTION SCREENS

DIVISION 12 - FURNISHINGS

123553 LABORATORY CASEWORK

DIVISION 13 - SPECIAL CONSTRUCTION

134700 RADIO FREQUENCY AND ELECTROMAGNETIC SHIELDED ENCLOSURES

DIVISION 14 - CONVEYING EQUIPMENT – not used

DIVISIONS 15 – 20 – not used

DIVISION 21 – FIRE SUPPRESSION

210510 GENERAL PROVISIONS FOR FIRE PROTECTION SYSTEMS WORK
210523 GENERAL-DUTY VALVES FOR WATER-BASED FIRE-SUPPRESSION PIPING
210529 PIPE HANGERS AND SUPPORTS
210530 SPRINKLER SYSTEM

DIVISION 22 – PLUMBING

220517 SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING

220518	ESCUTCHEONS FOR PLUMBING PIPING
220523.12	BALL VALVES FOR PLUMBING PIPING
220523.14	CHECK VALVES FOR PLUMBING PIPING
220529	HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT
220548	VIBRATION CONTROLS FOR PLUMBING PIPING AND EQUIPMENT
220553	IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT
220593	TESTING, ADJUSTING AND BALANCING FOR PLUMBING SYSTEMS
220719	PLUMBING PIPING INSULATION
220800	COMMISSIONING OF PLUMBING
221116	DOMESTIC WATER PIPING
221119	DOMESTIC WATER PIPING SPECIALTIES
221316	SANITARY WASTE AND VENT PIPING

DIVISION 23 – HEATING, VENTILATING AND AIR CONDITIONING

230000	GENERAL PROVISIONS FOR HEATING, VENTILATING AND AIR CONDITIONING WORK
230550	VIBRATION ISOLATION
230553	IDENTIFICATION FOR HVAC AND EQUIPMENT
230593	CLEANING AND TESTING
230594	BALANCING OF SYSTEMS
230700	HVAC INSULATION
233113	METAL DUCTWORK
233300	DUCTWORK ACCESSORIES
233313	DAMPERS
233416	CENTRIFUGAL HVAC FANS
233700	AIR OUTLETS AND INLETS

DIVISIONS 24 – not used

DIVISION 25 – BUILDING AUTOMATION AND CONTROL

250500	BASIC MATERIALS AND METHODS
251000	DIRECT DIGITAL/AUTOMATIC TEMPERATURE CONTROLS

DIVISION 26 - ELECTRICAL

260511	GENERAL PROVISIONS FOR ELECTRICAL WORK
260519	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
260526	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
260529	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
260533	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
260544	SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING
260553	IDENTIFICATION FOR ELECTRICAL SYSTEMS
260800	COMMISSIONING OF ELECTRICAL
260923	LIGHTING CONTROL DEVICES
262726	WIRING DEVICES
262813	FUSES
262816	ENCLOSED SWITCHES AND CIRCUIT BREAKERS
265119	LED INTERIOR LIGHTING

265219 EMERGENCY AND EXIT LIGHTING

DIVISION 27 - COMMUNICATIONS

270526 GROUNDING AND BONDING FOR COMMUNICATIONS SYSTEMS
270528 PATHWAYS FOR COMMUNICATIONS SYSTEMS
270529 HANGERS AND SUPPORTS FOR COMMUNICATIONS SYSTEMS
271116 COMMUNICATIONS RACKS FRAMES AND ENCLOSURES

DIVISIONS 28 – ELECTRONIC SAFETY AND SECURITY

283111 DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM
281500 INTEGRATED ACCESS CONTROL HARDWARE DEVICES

DIVISIONS 29 – 49 – not used

00 01 15 List of Drawings

SECTION 000115 – LIST OF DRAWINGS

G0.00 PROJECT COVER SHEET
G0.01 ARCHITECTURAL LEGEND, SYMBOLS, & ABBREVIATIONS
LS.00 LIFE SAFETY WORK AREA AND SHEET LIST
LS.01 CODE SHEET
LS.02 PLUMBING FIXTURE STRATEGY
LS.10 LIFE SAFETY LOWER LEVEL PLAN
LS.11 LIFE SAFETY UPPER LEVEL PLAN
LS.20 FIRE RATING PLAN
H100 UPPER AND LOWER LEVEL HAZARDOUS MATERIALS REMOVAL PLAN
AD1.00 DEMO PLANS
AD9.00 DEMO REFLECTED CEILING PLANS
A1.00 LOWER LEVEL FLOOR PLAN
A1.01 UPPER LEVEL FLOOR PLAN
A5.01 STAIR & RAMP SECTIONS AND DETAILS
A7.01 TYPICAL INTERIOR ELEVATIONS
A8.00 INTERIOR PARTITION TYPES & WALL ASSEMBLIES
A8.01 INTERIOR DETAILS
A8.10 DOOR SCHEDULE, TYPES, FRAME TYPES & DETAILS
A8.21 CASEWORK DETAILS
A8.30 MILLWORK DETAILS
A9.00 LOWER LEVEL REFLECTED CEILING PLAN
A9.01 UPPER LEVEL REFLECTED CEILING PLAN
A9.10 TYPICAL CEILING DETAILS
A10.00 FINISH PLANS AND SCHEDULE
A10.10 LOWER LEVEL FURNITURE PLAN
A10.11 UPPER LEVEL FURNITURE PLAN
SP-001 SPRINKLER - GENERAL NOTES, SYMBOL LIST & DRAWING LIST
SP-200 SPRINKLER - LOWER LEVEL PLAN NEW WORK

SP-201	SPRINKLER - UPPER & LOWER LEVEL PART PLANS NEW WORK
SP-300	SPRINKLER - RISER DIAGRAM
SP-400	SPRINKLER - DETAILS & SCHEDULES
P-001	PLUMBING - SYMBOLS, LEGEND AND NOTES
P-100	PLUMBING - UPPER LEVEL & LOWER LEVEL PART PLANS DEMOLITION WORK
P-200	PLUMBING - UPPER LEVEL & LOWER LEVEL PART PLANS NEW WORK
P-300	PLUMBING - DETAILS AND PARTIAL RISER DIAGRAMS
P-400	PLUMBING – SCHEDULES
DM101	MECHANICAL - UPPER & LOWER LEVEL PART PLANS DEMOLITION WORK
M001	MECHANICAL - SYMBOLS, LEGEND & NOTES
M002	MECHANICAL - EQUIPMENT SCHEDULES
M101	MECHANICAL - UPPER & LOWER LEVEL PART PLANS NEW WORK
M401	MECHANICAL - AIR FLOW DIAGRAM
M501	MECHANICAL – DETAILS
E001	ELECTRICAL - SYMBOLS, LEGEND & NOTES
EN002	NYS ENERGY COMPLIANCE PLAN, LIGHTING
EN003	NYS ENERGY COMPLIANCE REPORT, LIGHTING
ED101	ELECTRICAL - UPPER & LOWER LEVEL PART PLANS LIGHTING DEMOLITION WORK
ED102	ELECTRICAL - UPPER & LOWER LEVEL PART PLANS POWER & TELDATA DEMOLITION WORK
E101	ELECTRICAL - UPPER & LOWER LEVEL PART PLANS LIGHTING NEW WORK
E102	ELECTRICAL - UPPER & LOWER LEVEL PART PLANS POWER & TELDATA NEW WORK
E200	ELECTRICAL RISER AND PANEL SCHEDULES
FA001	FIRE ALARM - SYMBOLS, NOTES, RISER AND SEQUENCE OF OPERATIONS/MATRIX
FA101	FIRE ALARM - UPPER & LOWER LEVEL PART PLANS DEMOLITION WORK
FA102	FIRE ALARM - UPPER & LOWER LEVEL PART PLANS NEW WORK
LV1.00	LOW VOLTAGE LOWER LEVEL PLAN
LV1.01	LOW VOLTAGE UPPER LEVEL PLAN
LV1.02	LOW VOLTAGE DETAILS
AV1.00	LOWER LEVEL FLOOR PLAN -AV CONDUIT & BOXES
AV1.01	UPPER LEVEL FLOOR PLAN AV CONDUIT, BOXES, PROTECTOR MOUNT & SCREEN

00 31 00 Available Project Information – *not included yet*

(Refer to Section 2.12 of the Agreement regarding use of this information)

00 31 26 Existing Hazardous Material Information

SECTION 224216.16 - COMMERCIAL SINKS

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. Section Includes:
 - 1. Handwash sinks.
 - 2. Sink faucets.
 - 3. Laminar-flow, faucet-spout outlets.
 - 4. Supports.
 - 5. Supply fittings.
 - 6. Waste fittings.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for sinks.
 - 2. Include rated capacities, operating characteristics and furnished specialties and accessories.

1.4 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Counter cutout templates for mounting of counter-mounted lavatories.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For sinks to include in maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Faucet Washers and O-Rings: Equal to 10 percent of amount of each type and size installed.
 - 2. Faucet Cartridges and O-Rings: Equal to 5 percent of amount of each type and size installed.

PART 2 - PRODUCTS

2.1 HANDWASH SINKS

- A. Source Limitations for handwash sinks: Obtain each type of handwash sink from single source from single manufacturer. Acceptable manufacturers:
 - 1. Elkay
 - 2. Kohler
 - 3. American Standard
- B. Handwash Sinks: Stainless steel, counter mounted: SK-1
 - 1. Fixture:
 - a. Standards: ASME A112.19.3/CSA B45.4
 - b. Type: Self-rimming for above-counter mounting.
 - c. Nominal Size:
 - 1. 23.5 by 18.25 by 4.9 inches at room 1000F.
 - 2. 30.5 by 18.5 by 4.9 inches at room 1000B
 - 2. Faucet: F-1
 - 3. Supply Fittings: Comply with requirements in "Supply Fittings" Article.
 - 4. Waste Fittings: Comply with requirements in "Waste Fittings" Article.
 - 5. Lavatory Mounting Material: Sealant
- C. Undermount Bar Sinks: Stainless steel, counter mounted: SK-2
 - 1. Fixture:
 - a. Standards: ASME A112.19.3/CSA B45.4
 - b. Type: undermount for counter mounting.
 - c. Nominal Size: 23.5 by 18.25 by 4.9 inches.
 - 2. Faucet: F-1
 - 3. Supply Fittings: Comply with requirements in "Supply Fittings" Article.
 - 4. Waste Fittings: Comply with requirements in "Waste Fittings" Article.
 - 5. Lavatory Mounting Material: Sealant

2.2 SINK FAUCETS

- A. Source Limitations for faucets: Obtain each type of faucet from single source from single manufacturer. Acceptable manufacturers:
 - 1. Elkay
 - 2. Kohler
 - 3. Moen
- B. NSF Standard: Comply with NSF 372 for faucet-spout materials that will be in contact with potable water.

C. Sink Faucets: Manual type, two lever handle mixing valve. F-1

1. Commercial, Solid-Brass Faucets:
2. General-Duty, Solid-Brass Faucets:
3. Copper- or Brass-Underbody Faucets:
4. Standard: ASME A112.18.1/CSA B125.1.
5. General: Include hot- and cold-water indicators; coordinate faucet inlets with supplies and fixture hole punchings; coordinate outlet with spout and sink receptor.
6. Body Type: Centerset.
7. Body Material: Commercial, solid brass.
8. Finish: Chrome plated.
9. Maximum Flow Rate: 0.35 gpm.
10. Handle(s): Wrist blade, 4 inches (102 mm).
11. Mounting Type: Deck, exposed.
12. Spout Type: Swivel gooseneck
13. Vacuum Breaker: Required for hose outlet.
14. Spout Outlet: Aerator.

2.3 LAMINAR-FLOW, FAUCET-SPOUT OUTLETS

- A. NSF Standard: Comply with NSF 372 for faucet-spout-outlet materials that will be in contact with potable water.
- B. Description: Chrome-plated brass, faucet-spout outlet that produces non-aerating, laminar stream. Include external or internal thread that mates with faucet outlet for attachment to faucets where indicated and flow-rate range that includes flow of faucet.

2.4 SUPPORTS

- A. Type II Sink Carrier:
 1. Standard: ASME A112.6.1M.

2.5 SUPPLY FITTINGS

- A. NSF Standard: Comply with NSF 372 for supply-fitting materials that will be in contact with potable water.
- B. Standard: ASME A112.18.1/CSA B125.1.
- C. Supply Piping: Chrome-plated brass pipe or chrome-plated copper tube matching water-supply piping size. Include chrome-plated brass or stainless-steel wall flange.
- D. Supply Stops: Chrome-plated brass, one-quarter-turn, ball-type or compression valve with inlet connection matching supply piping.

- E. Operation: Loose key.

2.6 WASTE FITTINGS

- A. Standard: ASME A112.18.2/CSA B125.2.
- B. Drain: Grid type with NPS 1-1/2 (DN 40) offset and straight tailpiece.
- C. Trap:
 - 1. Size: NPS 1-1/2 (DN 40).
 - 2. Material: Chrome-plated, two-piece, cast-brass trap and swivel elbow with 0.032-inch- (0.83-mm-) thick brass tube to wall; and chrome-plated brass or steel wall flange.
 - 3. Material: Stainless-steel, two-piece trap and swivel elbow with 0.012-inch- (0.30-mm-) thick stainless-steel tube to wall; and stainless-steel wall flange.

2.7 GROUT

- A. Standard: ASTM C1107/C1107M, Grade B, post-hardening and volume-adjusting, dry, hydraulic-cement grout.
- B. Characteristics: Nonshrink; recommended for interior and exterior applications.
- C. Design Mix: 5000-psi (34.5-MPa), 28-day compressive strength.
- D. Packaging: Premixed and factory packaged.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine roughing-in of water supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before sink installation.
- B. Examine walls, floors, and counters for suitable conditions where sinks will be installed.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install sinks level and plumb according to roughing-in drawings.
- B. Install supports, affixed to building substrate, for wall-hung sinks.
- C. Install accessible wall-mounted sinks at handicapped/elderly mounting height according to ICC/ANSI A117.1.

- D. Set floor-mounted sinks in leveling bed of cement grout.
- E. Install water-supply piping with stop on each supply to each sink faucet.
 - 1. Exception: Use ball valves if supply stops are not specified with sink. Comply with valve requirements specified in Section 220523.12 "Ball Valves for Plumbing Piping".
 - 2. Install stops in locations where they can be easily reached for operation.
- F. Install wall flanges or escutcheons at piping wall penetrations in exposed, finished locations. Use deep-pattern escutcheons if required to conceal protruding fittings. Comply with escutcheon requirements specified in Section 220518 "Escutcheons for Plumbing Piping."
- G. Seal joints between sinks and counters, floors, and walls using sanitary-type, one-part, mildew-resistant silicone sealant. Match sealant color to fixture color. Comply with sealant requirements specified in Section 079200 "Joint Sealants."
- H. Install protective shielding pipe covers and enclosures on exposed supplies and waste piping of accessible sinks. Comply with requirements in Section 220719 "Plumbing Piping Insulation."

3.3 CONNECTIONS

- A. Connect sinks with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.
- B. Comply with water piping requirements specified in Section 221116 "Domestic Water Piping."
- C. Comply with soil and waste piping requirements specified in Section 221316 "Sanitary Waste and Vent Piping."

3.4 ADJUSTING

- A. Operate and adjust sinks and controls. Replace damaged and malfunctioning sinks, fittings, and controls.
- B. Adjust water pressure at faucets to produce proper flow.

3.5 CLEANING AND PROTECTION

- A. After completing installation of sinks, inspect and repair damaged finishes.
- B. Clean sinks, faucets, and other fittings with manufacturers' recommended cleaning methods and materials.
- C. Provide protective covering for installed sinks and fittings.
- D. Do not allow use of sinks for temporary facilities unless approved in writing by Owner.

END OF SECTION 224216.16