



PROJECT NAME:	Pilot Butte 2017 Renovations	PROJECT NO.:	15127.03
ADDRESS:	1501 NE Neff Road Bend, OR	FILE CODE:	6-b
DATE:	January 16, 2017		

ADDENDUM A

TO ALL PLAN HOLDERS:

This Addendum forms a part of the Contract Documents and modifies the original bidding documents released for bid preparation. Please notify everyone concerned as your sub-contractors and suppliers of the issuance and contents of this addendum prior to date of bid opening.

SPECIFICATIONS:

<u>Item:</u>	<u>Reference:</u>	<u>Description:</u>
01.01	Table of Contents	DELETE - Tiling DELETE – 10 2120 Cubicle Curtain Track System and Curtains DELETE – 10 5100 Lockers DELETE – 10 5613 Metal Storage Shelving DELETE – 10 8900 Cubicle Curtain Track System and Curtains DELETE – 28 3100 Fire Detection and Alarm ADD – New Table of Contents as attached.
01.02	00 4100 Bid Form	REPLACE – 00 4100 Bid Form in its entirety with attached.
01.03	01 2300 Alternates	REPLACE – Section in its entirety with attached.
01.04	10 2800 Toilet Room Accessories	REVISE – 2.01 C. 1. b. Model: 2921-S00000
01.05	22 4000 Plumbing Fixtures	DELETE – 2.01 B. 5. a. – Acorn DELETE – 2.01 B. 5. c. – Metcraft DELETE – 2.01 B. 9. a. – Acorn DELETE – 2.01 G. 1. – Delaney DELETE – 2.01 G. 3. – Zurn

DRAWINGS:

01.06	G0.01 Cover Sheet	ADD – Additive Alternate #1. See new sheet.
01.07	G0.2B Building B Code Summary	ADD – Chapter 29 Plumbing System Calculations. See new sheet.
01.08	G0.2C Building C Code	ADD – Chapter 29 Plumbing System Calculations. See new sheet.

Summary

- 01.09 G0.2D Building D Code Summary **ADD** – Chapter 29 Plumbing System Calculations. See new sheet.
- 01.10 A1.31 Building B - Restroom FP, RCP, And Finish Plans **REVISE** – Detail 3 and Detail 6 to add Alternate #1 “*Replace Restroom Flooring in Boy’s and Girl’s Restrooms Completely With Terrazzo Include Demolition of Existing Terrazzo and Replacing Existing Thick Set Slab*” See new sheet.
- 01.11 A1.41 Building C - Restroom FP, RCP, And Finish Plans **REVISE** – Detail 3 to add Alternate #1 “*Replace Restroom Flooring in Boy’s and Girl’s Restrooms Completely With Terrazzo Include Demolition of Existing Terrazzo and Replacing Existing Thick Set Slab*” See new sheet.
- 01.12 A1.51 Building D - R.R. FP RCP And Finish Plans **DELETE** – The alternate to add tile flooring in lieu of new terrazzo flooring. See new sheet.
- 01.13 P1.31 Building B - Restroom Floor Plans – Plumbing **REVISE** – WF-1 to WF-2. See new sheet.
- 01.14 P1.41 Building B - Restroom Floor Plans – Plumbing **REVISE** – WF-1 to WF-2. See new sheet.
- 01.15 P6.01 Plumbing Schedules **ADD** – WF-2 to the plumbing schedule. See new sheet.

APPROVALS: *Approvals are based on manufacturers only. Contractors are responsible for bidding on approved equipment equivalent in size and performance to that specified. Contractor is also responsible for all special electrical, mechanical, or other field adaptations required for equipment or items used other than that shown in the original project design.*

End of Addendum



STEELE ASSOCIATES ARCHITECTS LLC

ARCHITECTURE

INTERIOR DESIGN

MASTER PLANNING

SUSTAINABLE DESIGN

686 NW YORK DRIVE SUITE 150 BEND OR 97703 PH:541-382-9867 FAX:541-385-8816 www.steele-arch.com

SIGN IN SHEET

January 11, 2017

Pilot Butte Middle School 2017 Renovations

NAME (Please Print)	E-MAIL	PHONE #
Kyle Hartley	khartley@mcconst.com	541 810 8170
John Elder	John@turnp.com	541-954-8402
THOMAS KEETON	TKM@KEETONKING.COM	541-923-0704
Larry BLANTON	Larryb@KNCC Bend.com	541-389-7119
Sun Griffin	sun@griffinconstructionllc	541-948-1225
Samuel Griffin	samuel@griffinconstructionllc.com	5414477237
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Date: **January 26, 2017**

Time: **2:00 PM**

TO:

ADMINISTRATIVE SCHOOL DISTRICT #1

OWNER

520 NW WALL STREET, Room 330

ADDRESS

BEND, OREGON 97703

CITY/STATE

FROM:

BIDDER

ADDRESS

CITY/STATE

TELEPHONE

FACSIMILE

EMAIL ADDRESS

Operating as (strike out conditions that do not apply) an individual, a Limited Liability Company, a Corporation, organized and existing under the law of the State of _____, or a Proprietorship, a Partnership, or Joint Venture consisting of _____.

BASE BID:

1. Having become completely familiar with the local conditions and legal requirements affecting the cost of Work at the place where Work is to be executed, and having carefully examined the site conditions as they currently exist, and having carefully examined Bidding Documents prepared by **Steele Associates Architects** titled,

Pilot Butte Middle School – 2017 Renovations

together with any addenda to such Bidding Documents as listed hereinafter, the undersigned hereby proposes and agrees to provide all labor, materials, physical plant, equipment, transportation and other facilities and services as necessary and/or required to execute all of the Work described by the aforesaid Bidding Documents for the lump sum consideration:

BASE BID: _____ Dollars (\$) _____).

said amount being hereinafter referred to as the Base Bid.

2. If notified of acceptance of this Bid and contract award within thirty (30) calendar days after receipt of bids, the undersigned agrees to deliver all bonds and proof of insurance coverage required by the Specifications and to execute a contract for the above-named project work and the above-stated consideration on the form required, within ten (10) calendar days of such notification.

BID ALTERNATES

3. **ALTERNATE #1 – REPLACE RESTROOM FLOORING IN BUILDINGS B & C.**
 - a. Add to the base bid.

Lump Sum Amount \$ _____ (_____ and 00/100 dollars).

UNIT PRICES:

4. Provide unit cost pricing to add or deduct the following items:

UNIT PRICES WILL NOT BE USED FOR THIS CONTRACT

ADDENDA ACKNOWLEDGEMENT:

5. The undersigned acknowledges receipt of the following addenda: (List by number and date appearing on addenda.)

Addendum No.	Date	Addendum No.	Date
_____	_____	_____	_____
_____	_____	_____	_____

TIME OF COMPLETION:

6. The undersigned agrees to substantially complete all Work under this Contract within the dates specified in the milestone date schedule, as set forth in the Owner-Contractor Agreement and the Supplementary Conditions Section.

CHANGES IN WORK:

7. The undersigned agrees that when changes in Work are ordered which involve extra cost over and above Contract Sum, and when such work, due to an emergency, is ordered to proceed on basis of cost-plus-fee, such shall be as required by the General Conditions and Supplementary Conditions.

BID SECURITY:

8. Bid security in the amount of ten percent (10%) of the Base Bid. Failure to submit such security shall result in the Bid being considered non-responsive.

9. The undersigned further agrees to execute the formal Contract within ten (10) days from date of Owner's Notice of Intent to Award, and in case the undersigned fails or neglects to appear within the specified time to execute the Contract, and the undersigned is considered having abandoned the Contract by the Owner, the bid security accompanying this Bid will be forfeited to the Owner by reason of such failure on the part of the undersigned.

10. The undersigned further agrees that the bid security may be retained by the Owner and that said bid security shall remain with the Owner until the Contract has been signed and Performance Bond in a form acceptable to the Owner has been made and delivered to the Owner.

11. The undersigned has checked all of the above figures, and understands that Owner and the Project Manager will not be responsible for any errors or omissions on part of undersigned in preparing this Bid.

12. In submitting this Bid, it is understood by the Bidder that the Bid is a "firm offer," irrevocable, valid and binding, and may not be withdrawn for a period of thirty (30) days from time of opening.

13. The undersigned hereby acknowledges that he has read and understands the Drawings, Specifications,

Addenda and all other Contract Documents pertaining to this Project. The undersigned certifies that the Contract Documents are, in his opinion, adequate, feasible and complete for performing the Work and constructing the Work in a sound and suitable manner for the use specified and intended by the Contract Documents. The undersigned further certifies that he has, or has available, the equipment, personnel, materials, facilities and technical and financial ability necessary to complete the Work in accordance with the Contract Documents and within the time specified therein. The Bidder certifies that he has made allowances for normal inclement weather indigenous to the Project site.

14. The following information is provided pursuant to the Contract Documents:

(1) Legal Name of Firm: _____

a. If Firm is a corporation or limited liability company, state of incorporation or organization:
_____.

b. If Firm is a partnership, state names of partners:

c. If Firm is an individual using a trade name, state name of individual:

(2) Construction Contractors Board Registration Number: _____

(3) Signature of person or persons legally authorized to bind Bidder to a Contract. A Bid submitted by an agent shall have a current Power of Attorney attached certifying the agent's authority to bind the Bidder.

a. Signature: _____

b. Name (type): _____

c. Title: _____ (Corporate Seal)

d. Address: _____

15. The names and addresses of other persons interested as principals in this Bid are as follows:

16. The undersigned declares that the person or persons signing this Bid is/are fully authorized to sign on behalf of the firm listed and to fully bind the firm listed to all the Bid's conditions and provisions thereof.

17. It is agreed that no person or persons or company other than the firm listed below or as otherwise indicated has any interest whatsoever in this Bid or the Contract that may be entered into as a result of the Bid and that in all respects the Bid is legal and firm, submitted in good faith without collusion or fraud.

18. It is agreed that the undersigned has complied or will comply with all requirements of local, state, and national laws, and that no legal requirement has been or will be violated in making or accepting this Bid, in awarding the Contract to him and/or in the prosecution of the work required.
19. Pursuant to ORS 279A.120, bidder (check one) is ___/is not ___ a resident bidder. If not, indicate State of residency _____.
20. Contractor agrees to be bound by and will comply with the provisions of 279C.838, 279C.840 or 40 U.S.C. 3141 to 3148.
21. Contractor certifies that it has not discriminated and will not discriminate against minority, women or emerging small business enterprises in obtaining any required subcontracts.
22. The following bank reference is given:

Name of Bank: _____

Address: _____

Bank Officer: _____

Respectfully submitted this _____ day of _____, 2017

Firm Name: _____

Address: _____

Signature: _____

Name (type): _____

Title: _____

ENCLOSURES:

- Bid Form
- Bid Bond
- Affidavit of Non-Collusion
- Acknowledgement of Principal Bidder
- Milestone Dates List
- Insurance Binder
- Statement of Qualifications

FORM OF BID BOND

KNOW ALL MEN BY THESE PRESENTS: That we, _____ as Principal and _____ a Corporation duly organized and existing under the laws of the State of _____ and legally doing business in the State of Oregon, a surety, are held and firmly bound and obligated unto the Administrative School District #1, Deschutes County, and the State of Oregon, hereinafter called the Owner, in the full and just sum of _____ Dollars (\$ _____), lawful money of the United States of America for the payment of which sum of money well and truly to be made, the said Principal and Surety bind themselves, their and each of their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

Signed, Sealed and Dated this _____ day of _____ AD, 20____,

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Owner shall make any award to the Principal for: [Pilot Butte Middle School – 2017 Renovations], according to the terms of the proposal or bid made by the Principal therefore, and the Principal shall duly make and enter into a Contract with the Owner in accordance with the terms of said proposal or bid and award and shall give bond for the faithful performance thereof, with Surety and Sureties approved by the Owner, then this obligation shall be null and void; otherwise it shall be and remain in full force and effect.

IN TESTIMONY WHEREOF, the Principal and Surety have caused these presents to be duly signed and sealed.

Principal:

By:

Surety:

By Attorney-in-Fact:

AFFIDAVIT OF NON-COLLUSION

State of Oregon)
) ss
County of)

being duly sworn, deposes and says, that he is the identical person who submitted the foregoing proposal or bid, and that such bid is genuine and not sham or collusive or made in the interest or on behalf of any person not thereon named, and further, that the deponent has not directly or indirectly induced or solicited any other bidder on the foregoing work or equipment to put in a sham bid, or any other person or corporation to refrain from bidding, and that deponent has not, in any manner, sought by collusion to secure himself, or to any other person, an advantage over any other Bidder or Bidders.

Sign Here:

(Company Name)

(Signature)

(Title)

Subscribed and sworn to before me this _____ day of _____, 2017.

Notary Public in and for the State of Oregon, residing at:

(This Affidavit properly executed must accompany all bids.)

(ACKNOWLEDGEMENT OF PRINCIPAL OF BIDDER, IF A CORPORATION)

State of _____)
County of _____) ss:

On this _____ day of _____, 2017 before me personally came and appeared to me known, who being by me duly sworn, did
depose and say that he resides at _____

that he is the _____ of _____
the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation;
that one of the impressions affixed to said instrument is an impression of such seal; that it was so affixed by order of
the directors of said corporation; and that he signed his name thereto by like order.

(SEAL)
My Commission Expires _____

(ACKNOWLEDGEMENT OF PRINCIPAL OF BIDDER, IF A LIMITED LIABILITY COMPANY)

State of _____)
County of _____) ss:

On this _____ day of _____, 2017 before me personally came and appeared, to me
known, and known to me to be one of the members/managers of the firm of _____ described
in and who executed the foregoing instrument, and he acknowledged to me that he executed the same as and for the
act and deed of said firm.

(SEAL)
My Commission Expires _____

(ACKNOWLEDGEMENT OF PRINCIPAL OF BIDDER, IF A PARTNERSHIP)

State of _____)
County of _____) ss:

On this _____ day of _____, 2017 before me personally came and appeared, to me
known, and known to me to be one of the partners of the firm of _____ described in and
who executed the foregoing instrument, and he acknowledged to me that he executed the same as and for the act and
deed of said firm.

(SEAL)
My Commission Expires _____

(ACKNOWLEDGEMENT OF PRINCIPAL OF BIDDER, IF A SOLE PROPRIETORSHIP)

State of _____)
County of _____) ss:

On this _____ day of _____, 2017 before me personally came and appeared, to me known, and known to me to be one of the members of the firm of _____, described in and who executed the foregoing instrument, and he acknowledged to me that he executed the same as and for the act and deed of said firm.

(SEAL)
My Commission Expires _____

MILESTONE DATES LIST

Notice to Proceed	May 1, 2017
All Submittals Provided to and Approved by Architect	June 27, 2017
Start Construction on Building B Bathrooms	June 27, 2017
Start Construction on Building C & D Bathrooms	July 3, 2017
Substantial Completion	September 1, 2017
Final Completion	October 1, 2017

STATEMENT OF QUALIFICATIONS (Page One)

This Statement of Qualification form shall be submitted with the bid.

Submitted By (Firm/Company): _____

Address: _____

1. Date Firm First Organized _____

2. Financial Status:

What is bonding capacity? \$ _____

Credit available for this Contract? \$ _____

Gross amount of Contracts now in hand? \$ _____

Current value of assets? \$ _____

Has Contractor (or Contractor's responsible managing individual) ever declared bankruptcy? If so, when and where?

3. List projects similar to the requirements of this project for which Contractor had a contract in excess of \$3,000,000 during the past three (3) years. Start with current or most recent projects:

<u>Project Name</u>	<u>Owner (Phone #)</u>	<u>Contract Amount</u>	<u>Project Status (Dates)</u>
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STATEMENT OF QUALIFICATIONS (Page Two)

4. Who will be the Project Manager? _____

Who will be the Project Superintendent? _____

List experience relevant and similar to the requirements of this project for which this individual has been Project Superintendent:

Project Name	Owner (Phone #)	Contract Amount	Project Status (Dates)
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5. Please state the work Contractor normally performs with Contractor's own forces.

6. Please list any litigation or arbitration between firm and any Owner in the last three years.

I certify that the foregoing statement is true to the best of my information and belief. I understand the Owner is relying upon this statement in their determination as to whether Contractor is a responsible bidder.

(Date)

(Signature and Title of Officer)

1st TIER SUBCONTRACTOR DISCLOSURE INSTRUCTIONS AND FORM

(1) Pursuant to ORS 279C.370 Bidders are required to disclose information about certain first-tier subcontractors when the District estimates the Contract value for a Public Improvement to be greater than \$100,000. Specifically, when the Contract amount of a first-tier subcontractor furnishing labor, or labor and materials, would be greater than or equal to: (i) 5% of the project Bid, but at least \$15,000, or (ii) \$350,000 regardless of the percentage, the Bidder must disclose the following information about that subcontract in its Bid submission or within two (2) working hours after Closing:

- (a) The subcontractor's name,
- (b) Dollar value and,
- (c) The category of work that the subcontractor would be performing.

If the Bidder will not be using any subcontractors that are subject to the above disclosure requirements, the Bidder is required to indicate "NONE" on the Disclosure Form. **THE DISTRICT MUST REJECT A BID IF THE BIDDER FAILS TO SUBMIT THE DISCLOSURE FORM WITH THIS INFORMATION BY THE STATED DEADLINE.**

(2) A Bidder shall submit the disclosure form required by ORS 279C.370 either in its Bid submission or within two (2) working hours after Closing. Compliance with the disclosure and submittal requirements is a matter of responsiveness. Bids which are submitted by Closing, but for which the disclosure submittal has not been made by the specified deadline, are not responsive and shall not be considered for Contract award.

(3) The District shall obtain, and make available for public inspection, the disclosure forms required by ORS 279C.370. The District shall also provide copies of disclosure forms to the Bureau of Labor and Industries as required by ORS 279C.835. The District is not required to determine the accuracy or completeness of the information submitted. Substitution of affected first-tier subcontractors shall be made only in accordance with ORS 279C.585.

FIRST TIER SUBCONTRACTOR DISCLOSURE FORM

PROJECT: Pilot Butte Middle School – 2017 Renovations
BID CLOSING: January 26, 2017 at 2:00 PM

This form must be submitted at the location specified in the Invitation to Bid on the advertised bid closing date and within two working hours after the advertised bid closing time.

List below the name of each subcontractor that will be furnishing labor or will be furnishing labor and materials and that is required to be disclosed, the category of work that the subcontractor will be performing and the dollar value of the subcontract. Enter "NONE" if there are no subcontractors that need to be disclosed. (ATTACH ADDITIONAL SHEETS IF NEEDED.)

SPEC SECTION	NAME	ADDRESS	CCB #	CONTRACT AMOUNT

END OF SECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Description of Alternates.
- B. Procedures for pricing Alternates
- C. Documentation of changes to Contract Price and Contract Time.

1.02 RELATED REQUIREMENTS

- A. Section 00 2113 – Instruction to Bidders: Instructions for preparation of pricing for Alternates.

1.03 ACCEPTANCE OF ALTERNATES

- A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.
- B. Coordinate related work and modify surrounding work to integrate the work of each Alternate.

1.04 SCHEDULE OF ALTERNATES

- A. Alternate No. 1 –
 - a. Base Bid Item: Partial replacement of terrazzo flooring. Section 09 6623 – Resinous Matrix Terrazzo Flooring, and Drawing Numbers A1.31 and A1.41.
 - b. Alternate Item: Complete replacement of terrazzo flooring at restrooms in Buildings B & C. Section 09 6623 – Resinous Matrix Terrazzo Flooring, and Drawing Numbers A1.31 and A1.41.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION

**SECTION 10 2800
TOILET ROOM ACCESSORIES**

PART 1 GENERAL**1.01 SECTION INCLUDES**

- A. Accessories for toilet rooms.
- B. Electric hand/hair dryers.
- C. Grab bars.

1.02 RELATED REQUIREMENTS

- A. Section 06 1000 - Rough Framing: Concealed supports for accessories, including in wall framing and plates.
- B. Section 10 2113.19 - Plastic Toilet Compartments.

1.03 REFERENCE STANDARDS

- A. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.
- B. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- C. ASTM C1036 - Standard Specification for Flat Glass; 2011e1.
- D. ASTM C1503 - Standard Specification for Silvered Flat Glass Mirror; 2008 (Reapproved 2013).

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the work with the placement of internal wall reinforcement and reinforcement of toilet partitions to receive anchor attachments.

1.05 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Submit data on accessories describing size, finish, details of function, and attachment methods.
- C. Samples: Submit one samples of each accessory, illustrating color and finish.
- D. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention.

PART 2 PRODUCTS**2.01 MANUFACTURERS**

- A. Basis of Design: Bobrick.
- B. Other Acceptable Manufacturers:
 - 1. American Specialties, Inc: www.americanspecialties.com.
 - 2. Bradley Corporation: www.bradleycorp.com.
 - 3. Substitutions: Section 01 6000 - Product Requirements.
- C. Electric Hand/Hair Dryers:
 - 1. Basis of Design - Bradley "Aerix" Hand Dryer.
 - a. Model: 2921-S00000
 - b. Rating Voltage: AC120V
 - c. Frequency: 60 Hz
 - d. Power Consumption: 1200W
 - 2. No substitutions.
- D. Owner Furnished/Contractor Installed Accessories:
 - 1. Toilet Paper dispensers:
 - a. Large Restrooms - AmSan REN-05150-IB
 - b. Staff Restrooms - AmSan REN-05151-IB
 - 2. Soap Dispensers: Sparten Lite & Foamy SP9756

3. Toilet Seat Cover Dispenser (Staff Restrooms): Hospeco HSHGIS
4. Waste Receptacle: Stainless steel, free standing.

2.02 MATERIALS

- A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
- B. Basis of Design Manufacturer: Bobrick, unless otherwise noted.
- C. Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.

2.03 FINISHES

- A. Stainless steel: No 4 Brushed finish, unless otherwise noted.
- B. Chrome/Nickle Plating: ASTM B 456, SC2, satin finish, unless otherwise noted.
- C. Shop Primed Ferrous Metls: Pretreat and clean, spray apply one coat primer and bake.
- D. Back paint components where contact is made with building finishes to prevent electrolysis.

2.04 TOILET ROOM ACCESSORIES

- A. Electric Hand Dryers:
 1. Operation: Automatic, sensor-operated on and off.
 2. Style: High-speed hand dryer, fixed nozzle.
 3. Mounting: Surface mounted.
 4. Cover: Stainless steel with brushed finish.
 - a. Tamper-resistant screw attachment of cover to mounting plate.
 5. Runtime: Non-adjustable, 12 seconds.
 6. Warranty: 3 years.
- B. Waste Receptacle: Stainless steel, freestanding style. Owner furnished, contractor installed.
- C. Mirrors: Stainless steel framed, 1/4 inch (6 mm) thick annealed float glass; ASTM C1036.
 1. Annealed Float Glass: Silvering, protective and physical characteristics in compliance with ASTM C1503.
 2. Size: As indicated on Drawings.
 3. Backing: Full-mirror sized, minimum 0.03 inch (0.8 mm) galvanized steel sheet and nonabsorptive filler material.
 4. Basis of Design product: B-165 Sieries manufactured by Bobrick.
- D. Grab Bars: Stainless steel, nonslip grasping surface finish.
 1. Heavy Duty Grab Bars: Floor supports are not acceptable.
 - a. Push/Pull Point Load: Minimum 1000 pound-force (4448.2 N), minimum.
 - b. Dimensions: 1-1/2 inch (38 mm) outside diameter, minimum 0.125 inch (3.17 mm) wall thickness, exposed flange mounting, 1-1/2 inch (38 mm) clearance between wall and inside of grab bar.
 - c. Length and Configuration: As indicated on drawings.
 - d. Products:
 - 1) Basis of Design - Bobrick: B-6806X36 and B-6806 X48.
 - 2) Bradley; www.bradleycorp.com
 - 3) Substitutions: Section 01 6000 - Product Requirements.
- E. Combination Sanitary Napkin/Tampon Dispenser: Stainless steel, surface-mounted.
 1. Door: Seamless 0.05 inch door with returned edges and tumbler lock.
 2. Cabinet: Fully welded, 0.03 inch thick sheet.
 3. Operation: 25 cent coin required to operate dispenser. Provide locked coin box, separately keyed.
 4. Identify dispensers slots without using brand names.
 5. Minimum capacity: 20 napkins and 30 tampons.
 6. Products:

- a. Basis of Design: Bobrick: B-370639 50
 - b. Bradley; www.bardleycorp.com
 - c. Substitutions: Section 01 6000 - Product Requirements.
- F. Urinal Targets: Vinyl stickers.
 - 1. 3/4 inch (2cm) circular adhesive discs
 - 2. Fly or Bee motif.
 - 3. Locate within 2 inches of the urinal drain
 - 4. Products:
 - a. Basis of Design Product - UrinalFly: www.urinalfly.com
 - b. Toilet Marksman: www.toiletmarksman.com
 - c. Substitutions: Section 01 6000 - Product Requirements.
 - 5. Additional Stock: Provide 3 additional targets for each urinal.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify exact location of accessories for installation.
- C. For electrically-operated accessories, verify that electrical power connections are ready and in the correct locations.
- D. See Section 06 1000 for installation of blocking, reinforcing plates, and concealed anchors in walls.

3.02 PREPARATION

- A. Deliver inserts and rough-in frames to site for timely installation.
- B. Provide templates and rough-in measurements as required.

3.03 INSTALLATION

- A. Install accessories in accordance with manufacturers' instructions in locations indicated on the drawings.
- B. Install plumb and level, securely and rigidly anchored to substrate.
- C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.
 - 1. Grab Bars: As indicated on the drawings.
 - 2. Electric Hand Dryers: Measured to bottom of nozzle:
 - a. Accessible: 36 inches (910 mm).
- D. Mount toilet paper dispenser on door strike side of compartment.

3.04 PROTECTION

- A. Protect installed accessories from damage due to subsequent construction operations.

END OF SECTION 10 2800

SECTION 22 4000
PLUMBING FIXTURES

PART 1 - GENERAL

1.01 SUMMARY

- A. Work Included:
1. General Plumbing Fixtures:
 - a. China Fixtures, White Only
 - b. Enameled Steel Fixtures, White Only
 - c. Faucet Fittings
 - d. Fiberglass Fixtures, White Only
 - e. Group Wash Fountain
 - f. Shower Valves
 - g. Stainless Steel Fixtures
 - h. Thermostatic Mixing Valves
 - i. Wash Fountains
 2. Carriers
 3. Electric Water Coolers
 4. Fixture Trim
 5. Floor Drains
 6. Flushometers - Water Closet/Urinal
 7. Hose Bibbs
 8. Water Closet Seats
 9. Drain Boxes

1.02 RELATED SECTIONS

- A. Contents of Division 22, Plumbing and Division 01, General Requirements apply to this Section.

1.03 REFERENCES AND STANDARDS

- A. References and Standards as required by Section 22 00 00, Plumbing Basic Requirements and Division 01, General Requirements.

1.04 SUBMITTALS

- A. Submittals as required by Section 22 00 00, Plumbing Basic Requirements and Division 01, General Requirements.

1.05 QUALITY ASSURANCE

- A. Quality assurance as required by Section 22 00 00, Plumbing Basic Requirements and Division 01, General Requirements.
- B. In addition, meet the following:
1. Comply with lead free (less than or equal to 0.25 percent) products in drinking water systems.
 2. NSF 61, Annex G, Drinking Water System Components, Compliant.
 3. ISO 9001, Quality Management Standard Certified.
 4. IAPMO Low Lead Certification
 5. Provide fixtures, faucets and accessories to meet barrier free requirements of the governing code with respect to plumbing fixtures provided for the physically handicapped.
 6. Items approved for use by State of Oregon.

1.06 WARRANTY

- A. Warranty of materials and workmanship as required by Section 22 00 00, Plumbing Basic Requirements and Division 01, General Requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. "Or approved equivalent" as defined in 22 00 00, General Plumbing Requirements. Substitution process requirements apply to approved equivalent products.
- B. General Plumbing Fixtures: See Schedule on Drawings for type.
 - 1. China Fixtures - White Only:
 - 2. Sloan
 - 3. Group Wash Fountain:
 - a. Bradley
 - 4. Thermostatic Mixing Valves:
 - a. Bradley
 - b. Powers
 - c. Symmons
- C. Carriers:
 - 1. JR Smith
 - 2. Zurn
- D. Fixture Trim:
 - 1. McGuire
 - 2. Or approved equivalent.
- E. Floor Drains:
 - 1. Mifab
 - 2. Sioux Chief
 - 3. Smith
 - 4. Wade
 - 5. Watts
 - 6. Zurn
- F. Flushometers - Water Closet/Urinal:
 - 1. Sloan
- G. Hose Bibbs:
 - 1. Chicago
 - 2. JR Smith
 - 3. Mifab
 - 4. Wade
 - 5. Woodford
 - 6. Zurn
- H. Water Closet Seats:
 - 1. Bemis
 - 2. Or approved equivalent.

2.02 GENERAL PLUMBING FIXTURES

- A. Review substitution request requirements in Division 01, General Requirements and 22 00 00, Plumbing General Requirements.
- B. Reference Architectural Details for mounting height and location of fixtures.
- C. Provide factory fabricated fixtures of type, style and material indicated on the plumbing fixture connection schedule shown on the Drawings. For each type fixture, provide fixture manufacturer's standard trim, carrier, seats, and valves as indicated by their published product information; either as designed and constructed, or as recommended by manufacturer, or required for complete installation. Where more than one type is indicated, selection is installer's option; but, fixtures of same type must be furnished by a single manufacturer. Where type is not otherwise indicated, provide fixtures complying with governing regulations.

- D. Provide fixtures complete with fittings, supports, fastening devices, bolt caps, faucets, valves, traps, stops and appurtenances.
- E. Plumbing Fixture Flow Rates:
 - 1. Water Closets: Single flush 1.28 GPF or dual flush at 1.6/1.1 GPF.
 - 2. Lavatories in public core areas to be set for 0.5 GPM MAX. Other lavatories to be 1.0 GPM flow.
 - 3. Sinks to be set for 1.5 gpm flow max.
 - 4. Showers factory set at a maximum of 1.8 - 2 GPM flow.

2.03 CARRIERS

- A. Wall Hung Water Closets:
 - 1. Vertical: JR Smith 230y-MS4-M12/230DY-M54-M12. Adjustable vertical load siphon jet with 300 lb. capacity.
 - 2. Horizontal: JR Smith 208 R/L-Y-M54-M12/220DY-M5-M12. Adjustable horizontal siphon jet with 300 lb. load capacity.
- B. Wall Hung Urinal: Zurn Z-1218-WS. (JR Smith 913). Coupling type or plate type with bearing plate 300 lb. capacity.
- C. Wall Hung Lavatory: Zurn Z-1231 (D). (JR Smith 700). Connected arm or Plate type, 250 lb. capacity.
- D. Wall Hung Drinking Fountain: Z-1225-BL (JR Smith 834-97-98). Plate type.

2.04 ELECTRIC WATER COOLERS

- A. See Schedule on Drawings for Type.

2.05 FIXTURE TRIM

- A. Traps: Provide heavy duty commercial grade traps on fixtures except fixtures with integral traps. Exposed traps will be chromium plated cast brass or 17 gauge chromium plated brass tubing.
 - 1. Sink: McGuire 8912-C-DF.
 - 2. Lavatory: McGuire 8902-C-DF.
- B. Supplies and Stops: Lead free heavy duty commercial grade, chrome plated with brass stems. Stops: T-handle or Loose Key type.
 - 1. Lavatory: McGuire LFH 2165 CK
 - 2. Sink: McGuire LFH 2167 LK
 - 3. Water Closets: McGuire
- C. Grid strainer: McGuire 155A.
- D. Sink strainer: McGuire 152N.
- E. Trim barrier-free wrap for P-traps and supplies by McGuire, Pro-Wrap, Plumberex or True-bro.
- F. Escutcheons: McGuire wrought brass deep bell.
- G. Wax Rings and Toilet Bolts: WM Harvey No Seep No. 1 053065-N.

2.06 FLOOR DRAINS

- A. See Schedule on Drawings for types.

2.07 FLUSHOMETERS - WATER CLOSET/URINAL

- A. See Schedule on Drawings for types.

2.08 HOSE BIBBS

- A. See Schedule on Drawings for types.

2.09 WATER CLOSET SEATS

- A. See Schedule on Drawings for type.

2.10 DRAIN BOXES:

- A. See Schedule on Drawings for Type.

PART 3 EXECUTION

3.01 GENERAL PLUMBING FIXTURE INSTALLATION INFORMATION

- A. Verification of Conditions:
1. Examine rough-in work of water supply and waste piping systems to verify actual locations of piping connections prior to installing fixtures. Examine floors and substrates, and conditions under which fixture work is to be accomplished. Correct any incorrect locations of piping and other unsatisfactory conditions for installation of plumbing fixtures.
 2. Examine walls, floors and cabinets for suitable conditions where fixtures are to be installed.
 3. Install plumbing fixtures level and plumb, in accordance with fixture manufacturer's written instructions, rough-in drawings and pertinent codes and regulations, design and referenced standards.
 4. Fasten plumbing fixtures securely to supports or building structure. Secure supplies behind or within wall construction to provide rigid installation.
 5. Install a stop valve in a readily accessible location in water connection to each fixture.
 6. Install escutcheons at each wall, floor and ceiling penetration in exposed finished locations and within cabinets and millwork.
 7. Seal fixtures to walls and floors using silicone sealant Dow Corning No. 780 or approved equivalent. Match sealant color to fixture color.
 8. Test fixtures to demonstrate proper operation upon completion of installation and after units are water pressurized. Replace malfunctioning units, then retest.
 9. Inspect each unit for damage prior to installation. Replace damaged fixtures.
 10. Replace washers or cartridges of leaking or dripping faucets and stops.
 11. Clean fixtures, trim and strainers using manufacturer's recommended cleaning methods and materials.
 12. During construction, cover installed fixtures, drains, sinks and water coolers with cardboard and wrap with sheet plastic.
 13. Provide trap primers for floor drains, floor sinks, trench drains and hub drains.
 14. Install roof and overflow roof drains per architectural details. Cover drains during roof construction to protect drain. Provide offsets or expansion joints at each roof/overflow drain.
 15. Do not use lead flashing.
- B. Owner Furnished Equipment:
1. Rough-in and make final connections to Owner furnished equipment. Provide necessary items to complete installation.
 2. Comply with requirements of this Section and Drawings for installation procedures.
- C. Adjusting and Cleaning:
1. Clean plumbing fixtures, trim, and strainers of dirt and debris upon completion of installation. Adjust water pressure at drinking fountains, faucets, shower valves and flush valves to provide proper flow stream and specified GPM. Repair leaks at faucets and stops.
- D. Extra Stock:
1. Furnish special wrenches and other devices necessary for servicing plumbing fixtures and trim to Owner.
- E. Field Quality Control:
1. Upon completion of installation of plumbing fixtures, test fixtures to demonstrate capability and compliance with Specifications. Correct or replace malfunctioning units at site, then retest to demonstrate compliance.
- F. Protection:

1. Protect fixtures and equipment from damage. Cover finished fixtures with cardboard and sheet plastic. Fixtures are not to be used during construction. Replace damaged items with new.

3.02 CARRIERS INSTALLATION

- A. Install components in accordance with manufacturers instructions and approved product data submittals.
- B. Set plumb, level and rigid.
- C. Coordinate wall thickness so carrier has adequate depth to be concealed.

3.03 ELECTRIC WATER COOLER INSTALLATION

- A. Install components in accordance with manufacturers instructions and approved product data submittals.
- B. Set plumb, level and rigid.

3.04 FIXTURE TRIM INSTALLATION

- A. Install components in accordance with manufacturers instructions and approved product data submittals.
- B. Set plumb, level and rigid.

3.05 FLOOR DRAINS INSTALLATION

- A. Install components in accordance with manufacturers instructions and approved product data submittals.
- B. Set plumb, level and rigid.

3.06 FLUSHOMETERS - WATER CLOSET/URINAL INSTALLATION

- A. Install components in accordance with manufacturers instructions and approved product data submittals.
- B. Set plumb, level and rigid. Set fixture rim/grate flush with surrounding finish surface unless specifically noted otherwise.

3.07 HOSE BIBB INSTALLATION

- A. Install components in accordance with manufacturers instructions and approved product data submittals.
- B. Set plumb, level and rigid.

3.08 WATER CLOSET SEAT INSTALLATION

- A. Install components in accordance with manufacturers instructions and approved product data submittals.
- B. Set plumb, level and rigid.

3.09 DRAIN BOX INSTALLATION

- A. Install components in accordance with manufacturers instructions and approved product data submittals.
- B. Set plumb, level and rigid.

END OF SECTION