DOCUMENT 00 9113

ADDENDA: ADDENDUM NO. 2

SPECIFICATION NO. 25-11743-C

CITY OF BERKELEY

K-Dock Restroom Renovation Project

201 University Avenue, Berkeley, California 94608

The following amendments are hereby made to the subject documents:

1. **Specifications:** Specification 25-11743-C IFB.

   ADD: Specification 25-11743-C IFB Part 2 has been added to the contract documents, as previously stated in Addendum No. 1.

2. **Specifications:** Technical Specifications - Section 015000 – Temporary Facilities and Controls.

   REMOVE: Providing temporary facilities for the general public is removed from the contract documents and Project.

   Part 3 – EXECUTION

   3.1 TEMPORARY UTILITY INSTALLATION

   A. Sanitary Facilities: Provide temporary toilets, wash facilities, safety shower and eyewash facilities, and drinking water for use of construction personnel. ~~Provide temporary toilets and wash facilities for the general public while the existing restroom is closed for construction.~~ Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

   MODIFY: The location of temporary facilities has been moved to inside the contractor's staging area.

3. **Specifications:** Technical Specifications – Section 224200 – Commercial Plumbing Fixtures.

   Replace: Section 224200 – Commercial Plumbing Fixtures is replaced with attached Section 224200 – Commercial Plumbing Fixtures.

4. **Specifications:** Technical Specifications

   ADD: Section 035300 - Concrete Topping, Section - 071900 Water Repellents, and Section - 095426 Wood Ceilings, as attached to this Addendum are added to the Technical Specifications.

5. **Plans:** K-Dock Restroom Renovation Plans Specification 25-11743-C Plans.

   Replace: Sheet P-501 is replaced with attached Sheet P-501.

Bidder Questions:

1. Project Manual is missing the following sections: 00 7200, 00 7201, 00 7316, 00 7317, 00 7319, 00 7380. Please provide the sections for us to be able to request builder's risk insurance.

   Response: Documents 00 7200, 00 7201, 00 7316, 00 7317, 00 7319, and 00 7380 have been issued as part of Specification 25-11743-C IFB Part 2. This document can be obtained in the location of the Plan and Project Manual in the location of the Bid Documents below.

2. Location of Bid Documents.

   Response: Plans, Project Manual, Addenda, all associated Bid Documents are located at the City of Berkeley's Bid Opportunities website: https://berkeleyca.gov/doing-business/working-city/bid-proposal-opportunities/k-dock-restroom-renovation-project

3. What is the Engineer's Estimate?

   Response: The Engineer's Estimate is $400,000.

4. Can the sign in sheet and plan holders list be uploaded?

   Response: The sign-in sheet from the Non-Mandatory Pre-Bid Conference held on Tuesday, August 5th, 2025 at 10:00 AM and the Plan Holders list have been uploaded to the City of Berkeley's Bid Opportunities website https://berkeleyca.gov/doing-business/working-city/bid-proposal-opportunities/k-dock-restroom-renovation-project

5. Please provide more details on ADA Ramps. What is the finish on the modular aluminum stairs, ramps, and rails?

   Response: Intent of the ADA platforms is to be level with the floor elevation of the Lavatories. Height is less than 4 inches but shall be verified in the field. Length of the ADA platform at entrance of the public lavatory is 7'-4". Width of the ADA ramp for the Private Lavatory is 4'-0". See Section 055120 – Modular Aluminum Ramps and Steps of the Technical Specifications.

6. What type of port-a-potties, ADA, request for exact model number? Sheet G-002 states that "accessible and standard portable toilet [are] to be provided and maintained by owner throughout construction period." Do we still need to provide temporary toilets and handwash stations?

   Response: Publicly accessible portable toilets are no longer required. Temporary facilities must be provided for construction personnel inside the contractor's staging area and are the contractor's responsibility. See Section 015000 – Temporary Facilities and Controls of the Technical Specifications.

7. Question if this is structural work, is the existing shower wall structural?

   Response: Scope of work does not include demolition of structural walls. See AD-101 Demo Keynote 1.

8. What is the ceiling repair?

   Response: Section 095426 – Wood Ceilings has been added to the Technical Specifications. Ceiling repairs will be performed as necessary where existing interior nonstructural walls are removed, including patching and finishing to match adjacent surfaces. The intent is to restore a

continuous ceiling appearance in affected areas. Refer to Sheet AD-101, Demo Keynote 1 for locations of wall removals.

9. How is the floor supposed to be raised?

   Response: Section 035300 - Concrete Topping has been added to the Technical Specifications. Provide self-leveling concrete at area as shown by Keynote 2 on A-101.

10. What are the First Source Agreement requirements? Please confirm Berkeley First Source Program Construction Employment Program local hiring requirements.

    Response: See Document 00 7317 Supplementary Conditions – City of Berkeley Contracting Policies, Part 1.07 First Source Hiring Requirement [00 7317-4] of Specifications 25-11743-C IFB Part 2.

11. Is there a hazardous material report?

    Response: It is not expected that hazardous materials will be encountered in the Work. Reference Technical Specifications Section 024119, Paragraph 1.3 D for additional information. Also see Part 13.04 Notice of Hazardous Waste or Materials Conditions of the General Condition 00 7200-20.

12. Are there permits? Are there electrical and mechanical permits?

    Response: Permits will be obtained by the City.

13. Is the existing handrail on deck pressure treated wood?

    Response: Existing handrail is pressure treated wood. Contractor is responsible for proper disposal per Technical Specification Section 024119 – Selective Demolition.

14. Explain change to WC-5 and WC-6 noted as addendum #1 change on sheet P-101

    Response: Change to WC-5 and WC-6 on sheet P-101 was a change from an originally planned urinals to water closets as shown.

15. WC-5 and WC-6 does not match the Technical Specs

    Response: WC-5 and WC-6 are in line with Section 224200 – Commercial Plumbing Fixtures.

16. Please confirm Tech specs for stainless steel and porcelain plumbing fixtures are complete.

    Response: Specifications for stainless steel and porcelain plumbing fixtures are complete.

17. Is a new floor drain required? How is the new floor drain required? Plumbing has trenching?

    Response: New floor drain requirements are shown on Detail 1 Plumbing Plan – Waste and Vent on Sheet P-101. All four existing floor drains will be removed, with three of the existing floor drains to have extended piping and new floor drains run off of existing floor drain. See Sheet P-101.

18. Is there crawl space for this work?

    Response: Mechanical room exists between restrooms and is shown on the plans.

19. Is the Speedflow Plus an acceptable substitution for the Dyson Airblade V?

    Response: Reference Technical Specification Section 012500 for substitution procedures. Contractors shall bid based on basis-of-design products specified.
20. Is the Babymedi baby changing station an acceptable substitution for the Koala Kare?

    Response: Reference Technical Specification Section 012500 for substitution procedures. Contractors shall bid based on basis-of-design products specified.

21. Please provide spec for the floor clear seal finish on the Public Restroom and confirm if we need to polish the existing concrete.

    Response: Section 071900 Water Repellents has been added to the Technical Specifications. Provide a polyurethane sealer. Sand or polish per manufacturer's recommendations.

22. Per Plan PD-101 is showing three existing floor drains that does not need to be removed and one existing floor drain to be removed, whereas P-101, Detail 1 PLUMBING PLAN – WASTE AND VENT is showing a new FD-1 in the Private Lavatory and a FD-3 in the Public Lavatories. Please advise if the three existing floor drains in PD-101 needs to be removed and replaced just as the one floor drain with the No. 2 sheet key notes that is shown in P-101?

    Response: Four existing floor drains will be removed. Piping will be extended or removed to accommodate new plumbing fixture layout as shown on Plumbing Plan – Waste and Vent on Sheet P-101.

23. Per Plan P-501, LOCAL CONNECTION SCHEDULE - WC-5 and WC-6 has a cloud with a Delta 1. Please advise what will be the manufacturer and model number for the stainless-steel water closets to be installed? Also, WC-1, WC-2, WC-3 and WC-4 are not consistent as to American Standard vs. Acorn. Does the Owner want consistency throughout for the water closets, i.e. manufacturer and model numbers? Please advise.

    Response: The manufacturer and model number for water closets to be installed shall be as shown per Schedule on Sheet P-501.

24. Please advise if the City of Berkeley Department of Parks, Recreation and Waterfront will provide a barge/boat in order to do what is required underneath the restroom floors for the demo and new piping that is above the water underneath the building? Or is this a cost that the GC and Subcontractor will have to provide?

    Response: Contractor's bid shall include all means and methods to accomplish work summarized in Bid Documents.

25. Per Plan P-501, LOCAL CONNECTION SCHEDULE - please provide what flush valves manufacturer and model numbers that will be acceptable for WC-1, WC-2, WC-3, WC-4, WC-5, and WC-6?

    Response: Basis-of-design flush valve manufacturer and model number are noted on the schedule on Sheet P-501.

26. Please advise if the plumbing subcontractor has to pull a plumbing permit from the City of Berkeley for the plumbing scope for the K-Doc Restroom renovation? Also, please advise if the plumbing subcontractor will have to get a business license from the City of Berkeley, if not a Berkeley resident?

Response: Only the prime contractor is required to have a valid business license from the City of Berkeley, regardless of business location. Permits will be obtained by the City.

27. Please confirm there is no insulation needed in the walls.

    Response: The restrooms are ventilated and insulation is not required in the new walls. Reference Sheet A-502 for perforated metal panel and wall type details.

28. Construction Note 4 on sheet A-101 calls for Porcelain Tile. Please confirm that this should be Ceramic Tile.

    Response: See Section 093013 – Ceramic Tiling of the Technical Specifications for basis of design product.

29. Please confirm that Builder's Risk insurance is not required.

    Response: See Document 00 7316 – Supplementary Conditions – Insurance and Indemnification of the Specifications 25-11743-C IFB Part 2.

30. Environmental permitting, is there any additional environmental protections?

    Response: See Division 1 General Requirements, Section 01 5700 Temporary Controls, page 112 of Specifications 25-11743-C IFB Part 2.

The following document is added to contract documents: **Specifications 25-11743-C IFB Part 2**

The last day for questions has been extended to **Friday August 15th, 2025 at 5:00 PM**

The following Addenda were issued, modifying the Project Manual:

Addendum No. 1, issued on **August 8th, 2025**
Addendum No. 2, issued on **August 20th, 2025**

(Addenda have been incorporated into the conformed Project Manual.)

END OF DOCUMENT

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SECTION 224200 - COMMERCIAL PLUMBING FIXTURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Commercial lavatories.
2. Shower heads and valves.
3. Commercial urinals.
4. Commercial water closets.
5. Flushometer valves.
6. Toilet seats.
7. Fixture carriers.

1.2 ACTION SUBMITTALS

A. Product data.

1.3 CLOSEOUT SUBMITTALS

A. Operation and maintenance data.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Comply with ASME A112.19.2/CSA B45.1 for vitreous-china plumbing fixtures.

B. Comply with ASME A112.19.3/CSA B45.4 for stainless steel plumbing fixtures.

C. Comply with ASSE 1037/ASME A112.1037/CSA B125.37 for flush valves.

D. Comply with ASME A112.19.5/CSA B45.15 for flush valves and spuds for water closets.

E. Comply with ASME A112.18.1/CSA B125.1 for plumbing supply fittings.

F. Comply with ASME A112.18.2/CSA B125.2 for plumbing waste fittings.

G. Comply with IAPMO Z124.5 for water-closet (toilet) seats.

H. Comply with ASME A112.6.1M for plumbing fixture supports.

I. Comply with ICC A117.1 for ADA-compliant, accessible plumbing fixtures and installation.

J. Lavatory faucets and sink faucets intended to convey or dispense water for human consumption are to comply with the U.S. Safe Drinking Water Act (SDWA), with requirements of the Authority Having Jurisdiction (AHJ), and with NSF 61 and NSF 372, or be certified in compliance with NSF 61 and NSF 372 by an ANSI-accredited third-party certification body, in that the weighted average lead content at wetted surfaces is less than or equal to 0.25 percent.

2.2 COMMERCIAL LAVATORIES

A. Lavatories, Wall Mounted:

1. Lavatories, Wall Mounted - Vitreous China, Rectangular with Ledge Back:

a. Fixture:

1) Standard: ASME A112.19.2/CSA B45.1.
2) Type: For wall hanging.
3) Nominal Size: Rectangular, as indicated on drawings.
4) Faucet-Hole Punching: One hole.
5) Faucet-Hole Location: Top.
6) Color: White.
7) Mounting Material: Chair carrier.

b. Support: Lavatory carrier, floor affixed with steel uprights, concealed arm.
c. Lavatory Mounting Height: As indicated on drawings.

2. Lavatory Faucets, Manually Operated:
3. Standard: ASME A112.18.1/CSA B125.1.
4. Operation Type: Single control, mixing.
5. General: Coordinate faucet inlets with supplies and fixture hole punchings; coordinate outlet with spout and fixture receptor.
6. Body Type: Single hole.
7. Body Material: Commercial, solid-brass, or die-cast housing with brazed copper and brass waterway.
8. Finish: Polished chrome plate.
9. Maximum Flow Rate: 0.5 gpm.
10. Mounting Type: Deck, exposed.
11. Valve Handle(s): Single lever.
12. Spout: Rigid type.
13. Spout Outlet: Aerator.
14. Operation: Compression, manual.
15. Drain: Grid.

B. Lavatories – Handwash Stainless Steel, Back Access.

1. Fixture:

a. Material: 16-gauge, Type 304 stainless steel, seamless welded construction with fire-resistant sound-deadening material in cabinet interior.

b. Finish: Satin polished finish on exposed surfaces.

c. Size: 48”.

d. Basin: Two-person width.

e. Hot- and Cold-Water Supply Valves: Pneumatic, push-button, single-temperature, metering type with individual check stops, and backsplash-mounted filler spouts. Non-hold-open valve.

f. Drain: Integral punched grid with NPS 1-1/2 minimum horizontal waste and trap.

g. Optional Features: ADA compliant.

2. Accessories:

a. Mounting: Bolts through wall into accessible service space.

b. Mounting Height: Accessible.

C. Lavatory Supply Fittings:

1. NSF Standard: Comply with NSF 61 and NSF 372 for supply-fitting materials that will be in contact with potable water.
2. Standard: ASME A112.18.1/CSA B125.1.
3. 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.
4. Supply Stops: Chrome-plated-brass, one-quarter-turn, ball-type or compression valve with inlet connection matching supply piping.
5. Operation: Loose key.
6. Risers:

    a. NPS 3/8.
    b. ASME A112.18.6/CSA B125.6, braided or corrugated stainless steel, flexible hose riser.

D. Lavatory Waste Fittings:

1. Standard: ASME A112.18.2/CSA B125.2.
2. Drain: Grid type with NPS 1-1/4 offset and straight tailpiece.
3. Trap:

    a. Size: NPS 1-1/2 by NPS 1-1/4.
    b. Material:

        1) Chrome-plated, two-piece, cast-brass trap and swivel elbow with 0.032-inch-thick brass tube to wall and chrome-plated, brass or steel wall flange.

2.3 SHOWER HEADS AND SHOWER VALVES

A. Shower Head with Single-Handle, Thermostatic/Pressure-Balancing Mixing Valve.

1. Description: Single-handle, thermostatic/pressure-balancing mixing valve with hot- and cold-water indicators; check stops; and shower head.

2. Shower Valve:

    a. Standards: ASME A112.18.1/CSA B125.1 and ASSE 1016/ASME A112.1016/CSA B125.16.

    b. Body Material: Solid brass.

    c. Finish: Polished chrome plate.

    d. Mounting: Exposed.

    e. Operation: Single-handle, push-pull or twist or rotate control.

f. Antiscald Device: Integral with mixing valve.

g. Check Stops: Check-valve type, integral with or attached to body; on hot- and cold-water supply connections.

3. Supply Connections: NPS 1/2.

4. Shower Head:

a. Standard: ASME A112.18.1/CSA B125.1.

b. Type: Ball joint and head integral with mounting flange.

c. Shower Head Maximum Flow Rate: 1.5 gpm.

d. Shower Head Material: Metallic with chrome-plated finish.

e. Spray Pattern: Adjustable.

f. Integral Volume Control: Required.

g. Temperature Indicator: Integral with valve.

2.4 COMMERCIAL URINALS

A. Urinals, Wall Hung:

1. Urinals, Wall Hung - Back Outlet, Siphon Jet:

a. Fixture:

1) Standards:

a) ASME A112.19.2/CSA B45.1.
b) ASME A112.19.5/CSA B45.15.

2) Material: Vitreous china.
3) Type: Siphon jet.
4) Strainer or Trapway: Manufacturer's standard strainer with integral trap.
5) Water Consumption: 0.125 gpf.
6) Spud Size and Location: NPS 3/4; top.
7) Outlet Size and Location: NPS 2; back.
8) Color: White.

b. Waste Fitting:

1) Standard: ASME A112.18.2/CSA B125.2 for coupling.
2) Size: NPS 2.

c. Support: Urinal carrier, floor affixed with steel uprights with fixture support plates and coupling with seal and fixture bolts and hardware matching fixture.
d. Urinal Mounting Height: As indicated on drawings.

B. Urinals - Stainless Steel, Back Access, Back Outlet, Single.

1. Fixture:

a. Material: Minimum 16-gauge bowl, Type 304 stainless steel, seamless welded construction with fire-resistant sound-deadening material in interior.

b. Finish: Satin polished finish on exposed surfaces.

c. Type and Configuration: Blowout, with top inlet.

d. Drain: Strainer with NPS 2 tailpiece and trap.

e. Optional Features: ADA compliant.

2. Mounting: Bolts through wall sleeve into accessible service space.

3. Mounting Height: Accessible.

4. Wall Sleeve: Galvanized-steel frame of dimensions required to match fixture.

2.5 COMMERCIAL WATER CLOSETS

A. Water Closets, Wall Mounted:

1. Water Closets, Wall Mounted - Top Spud:

a. Source Limitations: Obtain water closets from single source from single manufacturer.
b. Standard: ASME A112.19.2/CSA B45.1.
c. Bowl:

1) Material: Vitreous china.
2) Type: Siphon jet.
3) Style: Flushometer valve.
4) Mounting Height: As indicated on drawings.
5) Rim Contour: Elongated.
6) Water Consumption: 1.2.8 gal.per flush.
7) Spud Size and Location: NPS 1-1/2; top.
8) Color: White.

d. Support: Water-closet carrier, floor affixed.

B. Water Closets - Stainless Steel, Back Access, On Floor, Back Outlet, Extended Bowl.

1. Material: 16-gauge, Type 304 stainless steel, seamless welded construction. Toilet to be able to withstand a 5000 lb. load without deflection and/or damage.

2. Finish: Satin polished finish on exposed surfaces.

3. Optional Features: ADA compliant.

4. Bowl:

a. Type, for Back-Outlet Water Closets: Elongated, with back inlet, integral trap, and siphon-jet design with back outlet and contoured seat.

b. Length to Wall: Minimum of 25 inches.

c. Back-Outlet Connection: NPS 4, horizontal with cleanout and slip joint.

d. Seat Surface: Satin polished finish.

5. Mounting: Bolts through wall sleeve into accessible pipe space.

6. Mounting Height: Standard or Accessible.

7. Flushometer Valve: Top supply, ADA lever handle, 1.28 gpf.

8. Toilet Seat: High-polished integral seat.

9. Wall Sleeve: Galvanized-steel frame of dimensions required to match fixture. Include steel bars or other design to prevent escape if fixture is removed.

    a. Configuration: Modify wall sleeve for accessible water-closet mounting height.

2.6 FLUSHOMETER VALVES

A. Flushometer Valves:

1. Flushometer Valves, Sensor Operated:

a. Source Limitations: Obtain flushometer valve from single source from single manufacturer.

b. Standard: ASSE 1037/ASME 112.1037/CSA B125.37.

c. Minimum Pressure Rating: 125 psig.

d. Features: Include integral check stop and backflow-prevention device.

e. Material: Brass body with corrosion-resistant components.

*f. Style: **Exposed**.*

g. Exposed Flushometer-Valve Finish: Chrome-plated.

h. Actuator: Side or top mounted; listed and labeled as defined in NFPA 70, by qualified testing agency, and marked for intended location and application.

i. Trip Mechanism: Battery-powered electronic sensor; listed and labeled as defined in NFPA 70, by qualified testing agency, and marked for intended location and application.

j. Consumption: 1.28 gal. per flush.

2.7 TOILET SEATS

A. Toilet Seats:

1. Source Limitations: Obtain toilet seat from single source from single manufacturer.
2. Standard: IAPMO/ANSI Z124.5.
3. Material: Plastic.
4. Type: Commercial (Heavy duty).
5. Shape: Elongated rim, open front.
6. Hinge: Check.
7. Hinge Material: Noncorroding metal.
8. Seat Cover: Not required.
9. Color: White.
10. Surface Treatment: Antimicrobial.

2.8 FIXTURE CARRIERS

A. Fixture Carriers - Lavatory:

1. Source Limitations: Obtain lavatory carriers from single source from single manufacturer.
2. Standards:

    a. ASME A112.6.1M.
    b. ASME A112.6.2.

B. Fixture Carriers - Sink:

1. Source Limitations: Obtain sink carriers from single source from single manufacturer.
2. Standards:

    a. ASME A112.6.1M.
    b. ASME A112.6.2.

C. Fixture Carriers - Urinal:

1. Source Limitations: Obtain urinal carriers from single source from single manufacturer.
2. Standard: ASME A112.6.1M.
3. Description: Waste-fitting assembly, as required to match drainage piping material and arrangement with faceplates, couplings, gaskets, and feet; bolts and hardware matching fixture.

D. Fixture Carriers - Water Closet:

1. Source Limitations: Obtain water closet carriers from single source from single manufacturer.
2. Standard: ASME A112.6.1M.

3. Description: Waste-fitting assembly, as required to match drainage piping material and arrangement with faceplates, couplings, gaskets, and feet; bolts and hardware matching fixture.

PART 3 - EXECUTION

3.1 INSTALLATION OF COMMERCIAL PLUMBING FIXTURES

A. Lavatory Installation:

1. Install lavatories level and plumb in accordance with roughing-in drawings.
2. Install supports, affixed to building substrate, for wall-mounted lavatories.
3. Install accessible, wall-mounted lavatories at mounting height in accordance with ICC A117.1.
4. Install water-supply piping with stop on each supply to each lavatory faucet. Install stops in locations that are accessible for ease of operation.
5. Install trap and waste piping on each drain outlet of each lavatory to be connected to sanitary drainage system.
6. 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 220500 "Common Work Results for Plumbing."
7. Seal joints between lavatories, counters, 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."
8. Install protective shielding pipe covers and enclosures on exposed supplies and waste piping of accessible lavatories. Comply with requirements in Section 220719 "Plumbing Piping Insulation."

B. Shower Installation:

1. Assemble shower components in accordance with manufacturers' written instructions.
2. Install showers level and plumb in accordance with roughing-in drawings.
3. Install ball valves in water-supply piping to the shower if supply stops are specified with the shower valve. Comply with ball valve requirements specified in Section 220523 "General Duty Valves for Plumbing Piping." Install valves in locations that are accessible for ease of operation.
4. Install shower flow-control fittings with specified maximum flow rates in shower arms.
5. 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 220500 "Common Work Results for Plumbing."
6. Seal joints between showers, 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."

C. Urinal Installation:

1. Install urinals level and plumb in accordance with roughing-in drawings.
2. Install wall-hung, back-outlet urinals onto waste-fitting seals and attached to supports.
3. Install accessible, wall-mounted urinals at mounting height in accordance with ICC A117.1.
4. Install supports, affixed to building substrate, for wall-hung urinals.
5. Use off-floor carriers with waste fitting and seal for back-outlet urinals.
6. Use carriers without waste fitting for urinals with tubular waste piping.
7. Use chair-type carrier supports with rectangular steel uprights for accessible urinals.
8. Measure support height installation from finished floor, not structural floor.
9. Install flushometer-valve, water-supply fitting on each supply to each urinal.
10. Attach supply piping to supports or substrate within pipe spaces behind fixtures.
11. Install lever-handle flushometer valves for accessible urinals with handle mounted on open side of compartment.
12. Install actuators in locations easily reachable for people with disabilities.
13. Install new batteries in battery-powered, electronic-sensor mechanisms.
14. Install wall flanges or escutcheons at piping wall penetrations in exposed, finished locations. Install deep-pattern escutcheons if required to conceal protruding fittings. Comply with escutcheon requirements specified in Section 220500 "Common Work Results for Plumbing."
15. Seal joints between urinals, walls, and floors using sanitary-type, one-part, mildew-resistant silicone sealant. Match sealant color to urinal color. Comply with sealant requirements specified in Section 079200 "Joint Sealants."

D. Water Closet Installation:

1. Install water closets level and plumb in accordance with roughing-in drawings.
2. Install accessible, wall-mounted water closets at mounting height in accordance with ICC A117.1.
3. Use carrier supports with waste-fitting assembly and seal.
4. Install wall-mounted, back-outlet water-closet supports with waste-fitting assembly and waste-fitting seals, and affix to building substrate.
5. Measure support height installation from finished floor, not structural floor.
6. Install flushometer-valve, water-supply fitting on each supply to each water closet.
7. Attach supply piping to supports or substrate within pipe spaces behind fixtures.
8. Install lever-handle flushometer valves for accessible water closets with handle mounted on open side of water closet.
9. Install actuators in locations easily reachable for people with disabilities.
10. Install new batteries in battery-powered, electronic-sensor mechanisms.
11. Install toilet seats on water closets.
12. Install wall flanges or escutcheons at piping wall penetrations in exposed, finished locations. Install deep-pattern escutcheons if required to conceal protruding fittings. Comply with escutcheon requirements specified in Section 220500 "Common Work Results for Plumbing."
13. Seal joints between water closets, walls, and floors using sanitary-type, one-part, mildew-resistant silicone sealant. Match sealant color to water-closet color. Comply with sealant requirements specified in Section 079200 "Joint Sealants."

14. Install new batteries in battery-powered, electronic-sensor mechanisms.

3.2 INSTALLATION OF PIPING CONNECTIONS

A. Connect plumbing fixtures with water supplies and soil, waste, and vent piping. Use size fittings required to match plumbing fixtures.

B. Comply with water piping requirements specified in Section 221116 "Domestic Water Piping."

C. Comply with soil, waste, and vent piping requirements specified in Section 221316 "Sanitary Waste and Vent Piping."

D. Install protective-shielding pipe covers and enclosures on exposed supplies and waste piping of accessible plumbing fixtures. Comply with requirements in Section 220719 "Plumbing Piping Insulation."

E. Where installing piping adjacent to water closets and urinals, allow space for service and maintenance.

3.3 CLEANING AND PROTECTION

A. After completing installation of plumbing fixtures, inspect and repair damages finishes. Replace any fixtures unable to be repaired to the satisfaction of the Owner.

B. Clean plumbing fixtures and associated faucets, valves, flushometer valves, and fittings with manufacturers' recommended cleaning methods and materials.

C. Provide protective covering for installed plumbing fixtures and associated faucets, valves, flushometer valves, and fittings.

D. Do not allow use of plumbing fixtures for temporary facilities unless approved in writing by Owner.

END OF SECTION 224200

SECTION 035300 - CONCRETE TOPPING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Iron-aggregate concrete floor topping.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 CONCRETE FLOOR TOPPINGS

A. Iron-Aggregate Concrete Floor Topping: Factory-prepared and dry-packaged mixture of graded iron aggregate, portland cement, plasticizers, and other admixtures to which only water needs to be added at Project site.

   1. Compressive Strength (28 Days): **12,000 psi (83 MPa)**; ASTM C109/C109M.

2.2 CURING MATERIALS

A. Evaporation Retarder: Waterborne, monomolecular film forming; manufactured for application to fresh concrete.

B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. (305 g/sq. m) when dry.

C. Moisture-Retaining Cover: ASTM C171, polyethylene film or white burlap-polyethylene sheet.

D. Water: Potable.

E. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C309, Type 1, Class B, 25 percent solids content, minimum.

2.3 MIXING

A. Bonding Slurry: Mix portland cement with water to a thick paint consistency.

B. Floor Topping: Mix concrete floor topping materials and water in appropriate drum-type batch machine mixer or truck mixer according to manufacturer's written instructions.

PART 3 - EXECUTION

3.1 PREPARATION

A. Existing Concrete: Remove existing surface treatments and deteriorated and unsound concrete. Mechanically abrade base slabs to produce a heavily scarified surface profile with an amplitude of 1/4 inch (6 mm).

1. Prepare and clean existing base slabs according to concrete floor topping manufacturer's written instructions. Fill voids, cracks, and cavities in base slabs.

B. Install joint-filler strips where topping abuts vertical surfaces.

3.2 FLOOR TOPPING APPLICATION

A. Existing Concrete: Apply epoxy-bonding adhesive, mixed according to manufacturer's written instructions, and scrub into dry base slabs to a thickness of 1/16 to 1/8 inch (1.6 to 3 mm), without puddling. Place floor topping while adhesive is still tacky.

B. Place concrete floor topping continuously in a single layer, tamping and consolidating to achieve tight contact with bonding surface. Do not permit cold joints or seams to develop within pour strip.

1. Screed surface with a straightedge and strike off to correct elevations.
2. Slope surfaces uniformly where indicated.
3. Begin initial floating, using bull floats to form a uniform and open-textured surface plane free of humps or hollows.

C. Finishing: Consolidate surface with power-driven floats as soon as concrete floor topping can support equipment and operator. Restraighten, cut down high spots, and fill low spots. Repeat float passes and restraightening until concrete floor topping surface has a uniform, smooth, granular texture.

D. Construction Joints: Construct joints true to line with faces perpendicular to surface plane of concrete floor topping, at locations indicated or as approved by Architect.

1. Coat face of construction joint with epoxy adhesive at locations where concrete floor topping is placed against hardened or partially hardened concrete floor topping.

3.3 PROTECTING AND CURING

A. General: Protect freshly placed concrete floor topping from premature drying and excessive cold or hot temperatures.

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

C. Begin curing immediately after finishing concrete floor topping. Cure by one or a combination of the following methods, according to concrete floor topping manufacturer's written instructions:

1. Moisture Curing: Keep surfaces continuously moist for not less than seven days.
2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for not less than seven days.
3. Curing Compound: Apply uniformly in two coats in continuous operations by power spray or roller according to manufacturer's written instructions.

3.4 JOINT FILLING

A. Prepare and clean contraction joints and install semirigid joint filler, according to manufacturer's written instructions, once topping has fully cured.

B. Install semirigid joint filler full depth of contraction joints. Overfill joint and trim semirigid joint filler flush with top of joint after hardening.

3.5 REPAIR

A. Defective Topping: Repair and patch defective concrete floor topping areas, including areas that have not bonded to concrete substrate.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT AND PAYMENT

A. The contract unit price paid per Lump Sum (LS) for Bid Item No. 4, “Exterior Access Ramps, Landings and Railings, Modular Aluminum Stair and Handrail”, Bid Item No. 7, “Interior Floor Finishes”, and Bid Item No. 12, “Plumbing Fixtures” shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in placing concrete floor topping complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the City’s Representative.

END OF SECTION 035300

SECTION 071900 - WATER REPELLENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes penetrating water-repellent treatments for concrete floor surfaces.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.3 INFORMATIONAL SUBMITTALS

A. Product certificates.

PART 2 - PRODUCTS

2.1 PENETRATING WATER REPELLENTS

A. Clear Polyurethane Sealer: Two component, high solids, water-based, low odor, VOC compliant, clear polyurethane sealer with semi-gloss finish.

1. Basis of Design Product: Westcoat SC-5 WB or approved equivalent.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Applicator present, for compliance with requirements and conditions affecting performance of the Work.

1. Verify that surfaces are clean and dry according to water-repellent manufacturer's requirements. Check moisture content in representative locations by method recommended by manufacturer.
2. Verify that there is no efflorescence or other removable residues that would be trapped beneath the application of water repellent.
3. Verify that required repairs are complete, cured, and dry before applying water repellent.

B. Test pH level according to water-repellent manufacturer's written instructions to ensure chemical bond to silica-containing or siliceous minerals.

3.2 PREPARATION

A. New Construction and Repairs: Allow concrete and other cementitious materials to age before application of water repellent, according to repellent manufacturer's written instructions.

B. Cleaning: Before application of water repellent, clean substrate of substances that could impair penetration or performance of product according to water-repellent manufacturer's written instructions**.**

3.3 APPLICATION

A. Apply coating of water repellent on surfaces to be treated using low-pressure spray to the point of saturation. Apply coating in dual passes of uniform, overlapping strokes. Remove excess material; do not allow material to puddle beyond saturation. Comply with manufacturer's written instructions for application procedure unless otherwise indicated.

3.4 CLEANING

A. Immediately clean water repellent from adjoining surfaces and surfaces soiled or damaged by water-repellent application as work progresses. Correct damage to work of other trades caused by water-repellent application.

B. Comply with manufacturer's written cleaning instructions.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT AND PAYMENT

A. The contract unit price paid per Lump Sum (LS) for Bid Item No. 4, “Exterior Access Ramps, Landings and Railings, Modular Aluminum Stair and Handrail”, Bid Item No. 7, “Interior Floor Finishes”, and Bid Item No. 12, “Plumbing Fixtures” shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in treating concrete surfaces complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the City’s Representative.

END OF SECTION 071900

SECTION 095426 - WOOD CEILINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Solid-wood, linear-panel ceilings.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: To match existing ceiling product to remain.

PART 2 - PRODUCTS

2.1 SOLID-WOOD, LINEAR-PANEL CEILING

A. Linear Ceiling Panels: Manufacturer's standard linear panels fabricated from kiln-dried solid-wood planks free of knots and without finger joints, cracks, checks, or warp. Planks run parallel to panel length.
1. Plank Species: Match existing.
2. Plank Cut: Match existing.
3. Plank Width: Match existing .
4. Plank Depth: Match existing.
5. Plank Length: 96 inches (2438 mm).
6. Plank Edges: Match existing.
7. Reveal/Plank Spacing: Equal spacing between long edges of planks.
8. Backing Boards: Manufacturer's standard, 1/2-inch- (13-mm-) thick solid-wood boards or HPVA HP-1 hardwood plywood.
9. Panel Attachment: Attach to substrate in accordance with manufacturer's written installation instructions.
10. Finish: As specified in Section 099124 "Interior Painting"; applied on every wood surface.

a. Plank Finish: Match existing.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Measure each ceiling area and establish layout of wood ceilings.

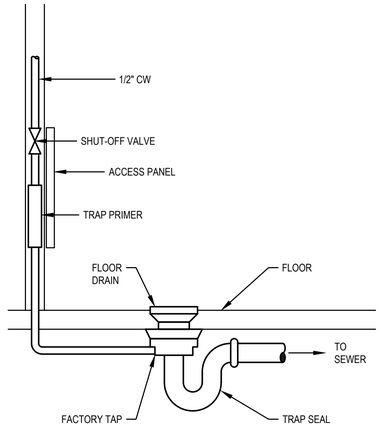
B. Clean exposed surfaces of ceilings, including trim and edge moldings. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage, including dented units.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT AND PAYMENT

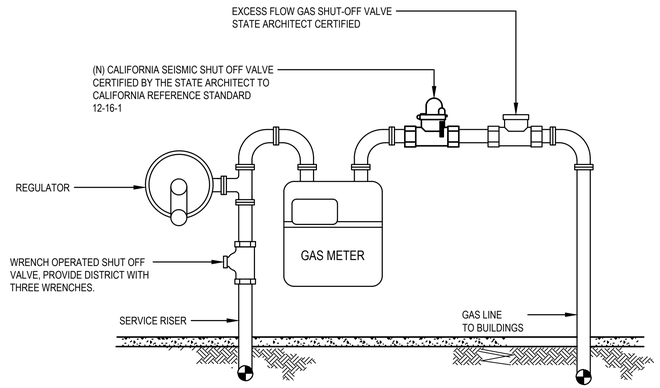
A. The contract unit price paid per Lump Sum (LS) for Bid Item No. 8, “Interior Wall and Ceiling Finishes” shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in constructing wood ceilings, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the City’s Representative.

END OF SECTION 095426



1 FLOOR DRAIN/TRAP PRIMER

NOT TO SCALE



2 GAS METER SEISMIC VALVE DETAIL

NOT TO SCALE

LOCAL CONNECTION SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL NO.	ADA	FLOW RATE	MAX. ALLOWED	WASTE	VENT	CW	HW	REMARKS
WC-1	WATER CLOSET	AMERICAN STANDARD	3351.101	NA	1.28 GPF	1.28 GPF	4"	2"	1-1/2"	-	-
	FLUSH VALVE	SLOAN	G2 8111								
WC-2	WATER CLOSET	AMERICAN STANDARD	3351.101	YES	1.28 GPF	1.28 GPF	4"	2"	1-1/2"	-	-
	FLUSH VALVE	SLOAN	G2 8111								
WC-3	WATER CLOSET	ACORN	2115	NA	1.28 GPF	1.28 GPF	4"	2"	1-1/2"	-	1
	FLUSH VALVE	SLOAN	G2 8111								
WC-4	WATER CLOSET	ACORN	2115-ADA	YES	1.28 GPF	1.28 GPF	4"	2"	1-1/2"	-	1
	FLUSH VALVE	SLOAN	G2 8111								
WC-5	WATER CLOSET	AMERICAN STANDARD	3351.101	NA	1.28 GPF	1.28 GPF	4"	2"	1-1/2"	-	-
	FLUSH VALVE	SLOAN	G2 8111								
WC-6	WATER CLOSET	ACORN	2115	NA	1.28 GPF	1.28 GPF	4"	2"	1-1/2"	-	1
	FLUSH VALVE	SLOAN	G2 8111								
LV-1	LAVATORY	CECO	550	YES	0.35 GPM	0.35 GPM	2"	2"	1/2"	1/2"	-
	FAUCET	CHICAGO	802-VE2805-665ABCP								
	CARRIER	ZURN	Z-1231								
LV-2	LAVATORY	CECO	550	YES	0.35 GPM	0.35 GPM	2"	2"	1/2"	1/2"	-
	FAUCET	CHICAGO	802-VE2805-665ABCP								
	CARRIER	ZURN	Z-1231								
LV-3	LAVATORY	ACORN	ELPS1-SW000-F70	YES	0.5 GPM	0.5 GPM	2"	2"	1/2"	1/2"	1
LV-4	LAVATORY	ACORN	ELPS1-SW000-F70	YES	0.5 GPM	0.5 GPM	2"	2"	1/2"	1/2"	1
FD-1	FLOOR DRAIN	ZURN	Z415B	NA	NA	NA	2"	2"	-	-	-
FD-2	FLOOR DRAIN	ZURN	Z415B	NA	NA	NA	2"	2"	-	-	-
FD-3	FLOOR DRAIN	ZURN	Z415B	NA	NA	NA	2"	2"	-	-	-
BF	BOTTLE FILLER	WILLOUGHBY	WBF-1SM-PSL1-PBH	NA	NA	NA	2"	2"	1/2"	-	1
SHR	SHOWER	SYMMONS	C-96-1-295-X-VP	YES	2.0 GPM	2.0 GPM	2"	2"	1/2"	1/2"	-

2

REMARKS
1. VANDAL RESISTANT

REGISTERED PROFESSIONAL ENGINEER
TERRY WONG
No. M26562
Exp. 03/31/25
MECHANICAL
STATE OF CALIFORNIA

No.	Description	Date
1	BUILDING PLAN CHECK REVISIONS	03/28/2025
2	FLUSH VALVE SUBSTIUTION	08/18/2025

ISSUED FOR PERMIT

TRANSYSTEMS
2000 CENTER ST STE 303
BERKELEY, CA 94704
PHONE: 510-835-2761
FAX: 510-842-1579

CONSULTANT
GHD Inc.
2235 Mercury Way Suite 150
Santa Rosa California 95407 USA
T 1 707 523 1010

SCALE: AS SHOWN

PROJECT NUMBER: 12626824

DESIGN EAO
DRAWN BK
CHECK CAR

DATE
08/18/2025

CITY OF BERKELEY
DEPARTMENT OF PARKS, RECREATION & WATERFRONT

PLUMBING DETAILS

K-DOCK RESTROOM RENOVATION

P-501