



**State of Rhode Island  
Department of Administration / Division of Purchases  
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**Solicitation Information  
January 3, 2018**

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| <b>ADDENDUM # 7</b> |
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**RFQ 7575502**

**TITLE: Interior Renovations RIAG Building 150 South Main Street,  
Providence**

**SUBMISSION DEADLINE:**

**Monday January 8, 2018 at 10:30 am (Local Time)**

- Attached includes additional information as well as questions received during the extension with responses

**Tom Bovis  
Interdepartmental Project Manager**

*Interested parties should monitor this website, on a regular basis, for any additional information.*

# ADDENDUM #7



Rhode Island Attorney General  
Interior Renovations  
150 South Main Street  
Providence, RI

RGB #6355  
January 2, 2018

**ADDENDUM #7**  
**Solicitation #: 7575502**

1.....Answers to Questions Received

2.....Clarification Items:

- a..... Project Manual
- b..... Drawings
- c..... Sketches (Listed)
- d..... Reissued Drawings (Listed)
- e..... Deep Well Submersible Pumps Cut Sheet

END OF TABLE OF CONTENTS

## TO ALL BIDDERS OF RECORD:

This Addendum forms a part of the Contract Documents and modifies the Drawings and Project Manual as hereinafter indicated.

REQUEST FOR INFORMATION

1. Q. Re: Addendum #4, Question #40; Answer indicates that there is to be an alternate for material in the Attorney General's office but bid form only indicates one alternate for a stand-by generator. Is there a second alternate that needs to be priced for a change in material at the Attorney General's office? If so, please re-issue a new bid form. Also, please indicate what is to be considered for the base bid and what for the alternate.
  - A. Reference to alternate has been removed, refer to revised Sheet A911.
2. Q. Re: Addendum #4, Question #97; Answer makes no indication of the 2<sup>nd</sup> floor phase. Are liquidated damages only to be assessed for completion of third floor and overall project?
  - A. Yes
3. Q. Re: Addendum #4, Question #87; Answer indicates that the GC is responsible to pay for owner or construction manager personnel should overtime work be needed. Please provide an allowance or an hourly rate for all owner/CM personnel who will need to be present when GC is performing work after normal working hours.
  - A. Change answer to Addendum #4, Question #87 to: No.
4. Q. Re: Addendum #4, Question #21;
  - a. Please provide details of wood paneling that is to be installed. (Ie: Are they full height of elevator cab? What is their attachment method?, etc.)
  - b. Please provide contact for elevator service provider as stated in answer.
  - c. Are elevators to be done one at a time or can both be done at the same time?
  - A. a. Refer to Forms and Surfaces Cabforms 2000-N configuration for basis of design, submitted as part of this addendum for wall panel. Contractor to verify all dimensions.
  - b. Not available.
  - c. Continuous accessible access is required to all Owner Occupied areas during construction.
5. Q. Under item 1.2 B of dewatering section: it says to carry 500 lf of crack repair. There are two different types of crack repairs shown on the drawings. There is a big difference in cost between the 2 types. Which type do we carry?
  - A. Ref to RGB addendum #3/RI DOA Addendum #4 Document.
6. Q. Under item 1.5 B of the dewatering section it states that borings and the letter titled "Dewatering Well Testing" are attached. Neither item was included in the addendum. Please provide this important data.
  - A. Ref to RGB addendum #3/RI DOA Addendum #4 Document.
7. Q. Are the shelving units as shown in the Staff Lounge/Library a part of this contract? If yes please provide details.

- A. Shelving are existing to be re-located by GC.

New end panels and top panels by GC, Basis of Design for bidding purposes final size verification to be in field:

End panel

90"h x 12"d

Constructed of 1 1/4"-thick high density particleboard covered with select Furniture Grade AA Cherry veneers

- All edges are eased and finished with solid Cherry edge banding
- End panels are not machined; no fastening hardware
- Fits the end of single-faced 12"D shelving
- Verify exact height-depth of panel prior ordering
- Provide antimicrobial finish
- Provide raised panel effect to match Lobby wainscot.

New top panels

66LF (overall) x 12"d – estimated lengths

33LF (overall) x 24"d

Constructed of 1 1/4"-thick high density particleboard covered with select Furniture Grade AA Cherry veneers

All edges are eased and finished with solid Cherry edge banding

8. Q. The Specification does not contain a section for toilet accessories.
- A. Toilet accessory product data is included in toilet accessory schedule on A321. Specification Section 102800 TOILET ACCESSORIES, is included as part of this Addendum.
9. Q. Specification section 124920, Roller Window Shades. Specify two different types of shades. The schedule at the end of the section states at exterior windows. Which rooms are to receive the black-out shades?
- A. Roller window shades that include filter shade and black-out shade shall be included in Rooms, 316, 317, 326, 353, 355, 357. All other perimeter windows shall receive light-filtering roller window shades.
10. Q. The interior elevations on drawing A700, contain Note #3 at the backsplashes. The Material & Accessory Schedule indicates that #3 is for solid surface backsplashes, the details on drawing A810 indicate that the same backsplashes or quartz. Please advise.
- A. Refer to revised note #3 in the Material and Accessory Schedule on Sheet A700, per this Addendum.
11. Q. Plan Work note 12.4, please provide specifications for the required gun safe storage lockers.
- A. Refer to RGB Addendum #1.
12. Q. What is the length of the countertop in the Reception room 113? The countertop is not shown in plan view.
- A. 4'-0".
13. Q. Question 74. Is there a list you can provide of existing access and CCTV system components that are to be reused?

Reply was to see attached "TV Inventory", I am looking for access panels and CCTV equipment

not TV's

- A. The only CCTV cameras that are to be reused are existing exterior cameras, as described in the specifications. All other existing equipment is to be turned over to the owner. Access control is to remain.

14. Q. Question 113 response refers me to included revised drawing LV201.1 but this drawing is not included.

- A. Re: LV201.1, included in this addendum.

15. Q. Is there an allowance that should be carried for use of the existing provider for access control and CCTV as they have not been identified in the RFP?

- A. No.

16. Q. Detail 6 on A9.01 shows a transom above the door leaf. Also in elevation on 8 on A701 & States the Typical for office 1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> floors. The third floor office doors have different head details called out on the door schedule that do not show transoms. Which detail should be followed for the third floor? Please advise

- A. On A900, third floor: Where door head detail reads 9/A901 change all to 6/A901.

*17. Under Audio-Video Systems 274100 Part 2 – Products*

The following locations show having a Display, an in-wall mounting box & a swivel swing arm, however, they are not requesting the AV switcher, nor wires. *Please confirm that no connections are to be made and no cables are to be provided.*

- 2.3 Dir of Operation Room 119
- 2.9 Lounge Room 240
- 2.11 Criminal Chief Room 264
- 2.12 AG Office Room 317
- 2.16 Deputy AG Room 355
- 2.18 Dir. Of Administration Room 360
- 2.19 Public Information Officer Room 311
- 2.2 Chief of Staff Room 315

- A. Provide RG6 and Cat. 6A connections and cabling, per legend on drawing LV001. Media distribution shall be through Cat. 6A.

*18. From Addendum No. 3*

Question 102

Q. Drawing E-100 Note 6: Calls for all raceways, wiring and devices for all Low Voltage Systems. That includes Telephone, Data, Security and A/V to be provided by the Electrical Contractor. The Electrical Specifications call for Empty Raceways and Outlet Systems shall be provided by the Electrical Contractor. What systems shall the Electrical Contractor provide Raceway and Outlet Systems only for? Can we get clarification who is carrying the cost of the Low Voltage Wiring and associated wiring devices and components?

- A. The Empty Raceway and Outlets section of the Electrical specifications is intended

to cover the empty raceways specified between the MDF, IDF, and Demark Rooms. The suggested, approximate routing of these conduits is indicated on the Electrical drawings. The "LV" series drawings and specifications issued as part of the contract bid set specifies the conduit, wiring, devices and equipment needed for all the low voltage systems. Note #11 of the "Branch Circuit Wiring and General Notes" on drawing #E000 specifies that all information on the "LV series drawings and associated specifications shall be owned by the Electrical Contractor. This same note appears in the following locations in the bid drawing set: Drawing #E100, Note #6; Drawing #E101, Note #6; Drawing #E102, Note #7; Drawing #E103, Note #6; Drawing #E104, Note #2. Taken together, the Electrical Contractor shall provide all conduit, wire, outlet boxes, devices, and equipment for complete, operational, low voltage systems in the building.

*Please confirm if this includes the wiring from the Mic Plates, the Video Plates, the Speakers, etc. that are part of the Local Sound System for Rooms 136 & 137.*

- A. The response includes the wiring and devices for the microphone plates, video plates, speakers, etc that are part of Rooms 136 and 137.

19. Please identify the connectivity requirements for the following display locations:

- 2.3 Dir of Operation Room 119
- 2.9 Lounge Room 240
- 2.11 Criminal Chief Room 264
- 2.12 AG Office Room 317
- 2.16 Deputy AG Room 355
- 2.18 Dir. Of Administration Room 360
- 2.19 Public Information Officer Room 311
- 2.2 Chief of Staff Room 315

- A. Provide RG6 and Cat. 6A connections and cabling, per legend on drawing LV001. Media distribution shall be through Cat. 6A.

20. Q. Section 332000, page 9/18 2.6 B.5 - The new pumps are to match the existing voltage for the existing pumps. What is the electrical power supply to the existing pumps? Are they 2 or 3 wired?

- A. Exterior Sump pumps are 230 volt, 1 phase and sump pit pumps are 120 volt, 1 phase. Refer to attached pump cut sheet, included as part of this addendum.

21. Q. At shower rooms 354 and 319 are the vanities to be a millwork items and if so what are the materials to be used?

- A. Re: SK05 MILLWORK 3RD FLOOR, included as part of this addendum.

22. N/A

23. Q. Please explain what the intent is to provide a generator during the cut over to the new switchboard? The switchboard and feeders will need to be de-energized during termination. There really isn't a way to keep the building completely live and terminate conductors at the same time. Are there specific loads that need to stay live, which would be more manageable then the entire building? (IT, etc?) Also what days can the shutdowns be accomplished and at what time of day?

- A. The temporary generator is for the 150 South Main Street Building only. The intent is to have a source of power for the entire building should the new service entrance conductor work take longer than a single weekend to accomplish since the building must be available for complete occupancy during the Monday through Friday workweek. The temporary generator shall remain connected to the existing switchboard and provide power to it until the service entrance conductor work to the new switchboard is complete. The drawings specify a new switchboard which will be used to backfed the existing switchboard. During the cutover, the existing and new switchboards will either not yet be interconnected, or the connection between the two opened. While the existing service entrance conductors are being removed and replaced with new, the temporary generator will be feeding only the existing switchboard to keep the existing building powered. Once the new service entrance conductors are installed and connected and the new switchboard is operational, the temporary generator shall be disconnected, and the interconnection between the new and existing switchboards closed. Work may commence on a schedule convenient with and at a time coordinated with the owner. One such schedule as an example only would be to start work first thing on a Saturday morning (7:00 AM?) and work shall proceed uninterrupted until the work is complete late Saturday or early Sunday morning.
24. Q. In addition to the question above, the adjacent building 180 has just been re-fit with a generator that backs up the entire building. Couldn't that generator be utilized during the cut over of this building for the 180 building? The generator is natural gas. If it is allowable to use that generator, would the owner be responsible for cost of the gas consumed?
- A. The temporary generator is for the 150 South Main Street Building only.
25. Q. There is required electrical work for the well de-watering system for new pumps etc. No work can be found on the "E" drawings for this system. Please advise?
- A. The connections required to refeed the sump pumps are indicated on drawing #E100
26. N/A
27. Q. Drawing A901 call out steel angle lintels. There is no detail sizing the material to be used.
- A. At 8" CMU use WT 7x15  
At 6" CMU use WT 7x11
28. Q. Drawing A101.1 and A101.2 calls out new gates to be installed at the top of the stair wells but there is not detail.
- A. All stair interruption gates to be:  
Pacific Stair Corporation, R003 Single Swing Gate (or Equal)
29. Q. The 3rd floor perimeter rooms (per finish schedule) are getting 95A.1(type-1 grid & tile) but most rooms also list 95-D which is 6" axiom trim. I can't find a detail or where this axiom trim would go.
- A. No need: ceilings are raised at all perimeter windows to 10'-0".
30. Q. Due to the size of the project can the bid time be moved to 2:00pm in the afternoon so we can have more time in the day to put our bid together? On the average, better sub pricing takes place during a late bid opening.
- A. No.
31. Q. Can you provide a list of vendors that currently service the building? i.e. security, fire etc.

- A. Signet is the security vender for all RIAG facilities. List of other vendors not available.
32. Q. Have stair stringers, risers and railings that are to be refinished been tested for lead?
- A. Refer to Hazardous Material Inspection Report by Environmental Consult and Management dated 9-20-17.
33. Q. Has roofing materials been sampled for ACM where coring and patching is required?
- A. No. RIAG representative reported that roof was replaced in 1997.
34. Q. Items to removed and stored on site, are they to be stored in containers or in the building? Can you please quantify how much space will be need or how many containers to carry?
- A. Assume sufficient storage will be available in building.
35. Q. FFE items to be left by owner and removed by contractor, should an allowance be carried if not can a quantity be provided?
- A. No. Owner will coordinate removal of items.
36. Q. IT server rooms will be demolished, are systems to be operational during construction and protected by contractor until relocated? Are servers to be relocated by owner?
- A. Refer to low voltage risers, notes describe the phasing and what is to be protected, reused, moved, etc. during construction.
37. Q. Response to question 87 is yes. Please provide rates of owner staff that GC is responsible for during off hours work.
- A. Refer to answer to question #3 of this Addendum.
38. Q. Please provide Finish/ID Plans showing the dimensions for designs in rooms with multiple flooring types to be installed with borders or patterns to estimate proper amounts of each: 008 Office (CPT & VCT), 013 Café (96B.1 & 96B.2 LVT), 112 & 113 136 Multipurpose & 137 PR Conference (LVT & CPT), 132 Library (LVT & CPT), 240 Lounge, etc.
- A. Room 008 Office Provide carpet 9'-6" x 17'-3" remainder of room VCT.  
Room 013 Café – Provide flooring 96B.1 and 96B.2 in alternating herringbone pattern.  
Room 112 & 113 – Provide LVT from door 111.2 to door 125.1 and full width of hall. The remainder is carpet under the desking areas.  
Room 137 – 12'-0" w x 26'-0" l carpet align with ceiling soffit. Remaining area is LVT.  
Room 136 – 8'-0" x 22'-0" LVT at front of room the remainder is carpet.  
Room 240 – 1'-9" off East and West walls. Center to be carpet from North to South walls.
39. Q. Terrazzo: Secure Lobby Vestibule, RM 111: Plan Work Note A1.8 (half of vestibule) calls for patch and refinish existing terrazzo, Note A1.10 (other half) calls for new Fritztile to be installed. Terrazzo specifications to not call for Fritztile, only refinishing existing. Is Fritztile to be installed as shown on A101.1 & A101.2? If so, what is the Fritztile product selection?
- A. Refer to revised specification section 096600 Terrazzo Flooring, included as part of this addendum.

40. Q. The following locations show having a Display, an in-wall mounting box & a swivel swing arm, however, they are not requesting the AV switcher, nor wires. Please confirm that no connections are to be made and no cables are to be provided.

- 2.3 Dir of Operation Room 119
- 2.9 Lounge Room 240
- 2.11 Criminal Chief Room 264
- 2.12 AG Office Room 317
- 2.16 Deputy AG Room 355
- 2.18 Dir. Of Administration Room 360
- 2.19 Public Information Officer Room 311
- 2.2 Chief of Staff Room 315

A. Provide RG6 and Cat. 6A connections and cabling, per legend on drawing LV001. Media distribution shall be through Cat. 6A.

41. The following questions are all related to the well de-watering system, from the well sub-contractors:

- 1) Is a filter pack required for the wells?
- 2) If a filter pack is required, what diameter would the outer core hole and casing be?
- 3) Is an 8" telescopic screen acceptable?
- 4) The actual formation conditions are missing in the specifications?
- 5) We believe that since the actual formation conditions are missing in the specifications, the entire section 332000 should be an allowance to the bid? Please advise?

- A. 1) A filter is required for the wells.
- B. 2) Design of the filter pack will be left to the well installer based on in field conditions.
- C. 3) Design of the well screen will be left to the well installer. Well screens should meet the specifications set forth in Section 332000 with special attention given to the materials and required flow rates.
- D. 4) Formation conditions can be ascertained from the Boring Logs and Well Test letter reports included in previous addendum.
- E. 5) Formation conditions should only affect the drilling of the well and the selection of the screen and filter pack components (see response to 4 above). All other items are known quantities and should be bid as such.

**Addendum Reference Numbering Clarification:**

| RGB Addendum Reference Number | RI Department of Administration Reference Number |
|-------------------------------|--|
| RGB Addendum #1               | RI DOA Addendum #1                               |
| RGB Addendum #1 (Drawings)    | RI DOA Addendum #2                               |
| RGB Addendum #2               | RI DOA Addendum #3                               |
| RGB Addendum #3               | RI DOA Addendum #4                               |
| NA                            | RI DOA Addendum #5                               |
| NA                            | RI DOA Addendum #6                               |
| RGB Addendum #7               | RI DOA Addendum #7                               |

PROJECT MANUAL

## 1. Section 09 66 00 – TERRAZZO FLOORING

- A. Delete this section and insert the attached Section 09 66 00 – TERRAZZO FLOORING issued as part of this Addendum.

## 2. Section 10 28 00 – TOILET ACCESSORIES

- A. Add Section 10 28 00 – TOILET ACCESSORIES in its entirety as issued in this Addendum.

DRAWINGS

## 1. DRAWINGS A100.1, A100.2, A101.1, A101.2, A102.1, A102.2, A103.1, A103.2, A104

- A. Add the following to Plan Work Note 12.3:

New end panels and top panels by GC, Basis of Design for bidding purposes final size verification to be in field:

End panel

90"h x 12"d

Constructed of 1 1/4"-thick high density particleboard covered with select Furniture Grade AA Cherry veneers

All edges are eased and finished with solid Cherry edge banding

End panels are not machined; no fastening hardware

Fits the end of single-faced 12"D shelving

Verify exact height-depth of panel prior ordering

Provide antimicrobial finish

Provide raised panel effect to match Lobby wainscot.

New top panels

66LF (overall) x 12"d – estimated lengths

33LF (overall) x 24"d

Constructed of 1 1/4"-thick high density particleboard covered with select Furniture Grade AA Cherry veneers

All edges are eased and finished with solid Cherry edge banding

## 2. DRAWINGS A101.1, A101.2

- A. On Drawing A101.1 and A101.2, add the following under General Plan Notes: 12. All stair interruption gates to be: Pacific Stair Corporation, R003 Single Swing Gate (or Equal).

## 3. DRAWING A700

- A. At Material and Accessory Schedule, change Note #3 to read: Backsplash from top of counter to underside of upper cabinet or shelf, as indicated or 2'-0" minimum. Backsplash to match countertop material or as noted otherwise in Room Finish Schedule.

## 4. DRAWING A900

- A. On A900 Door and Frame Schedule, at the Third Floor: Where door head detail reads 9/A901 change all to 6/A901.

## 5. DRAWING A900

- A. On Drawing A901, add the following lintel schedule:

## STEEL LINTEL SCHEDULE:

At 8" CMU use WT 7x15

At 6" CMU use WT 7x11

## 6. DRAWING LV101.1

- A. Under General Notes, add the following: 2. In Reception 113, furnish and install intrusion detection keypad tied into intrusion panel located in Demark room 014. Locate the keypad 48" AFF, on the right side of the door (looking at the door from inside Reception 113).

SKETCHES

- A. The following sketches are issued as part of this Addendum:

SK05 MILLWORK 3<sup>RD</sup> FLOOR – dated 01-02-2018

SK06 MAIL SORTER DETAIL – dated 01-02-2018

REISSUED DRAWINGS

- A. The following revised drawings are reissued as part of this Addendum:

A910 ROOM FINISH SCHEDULE Revised 01-02-2018

A911 ROOM FINISH SCHEDULE LEGEND 01-02-2018

LV103.1 LOW VOLTAGE LOWER LEVEL PLAN (SOUTH) Revised 12-19-2017

LV201.2 TELECOM DISTRIBUTION DETAILS Revised 12-19-2017

(THIS COMPLETES ADDENDUM NO. 7)

## SECTION 09 66 00 - TERRAZZO FLOORING

## 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. Repair and re-surfacing and finishing of existing terrazzo flooring.
  - 2. Provide and install new resilient terrazzo tile flooring.

## 1.3 RELATED WORK SPECIFIED IN OTHER SECTIONS

- 1. Division 3 - Concrete Repair.
- 2. Section 01500 - Temporary Facilities and Controls (Sufficient water, temporary heat and light, and adequate electric power with suitable outlets connected and distributed for use within 100 feet of any working space.)

## 1.4 QUALITY ASSURANCE

- A. Acceptable Installer:
  - 1. Installer shall be a contractor member of NTMA and shall perform all work in accordance with NTMA standards.
  - 2. If installer is not a contractor member of NTMA, installer shall submit a list of three completed projects of similar magnitude and complexity.

## 1.5 GUARANTEE

- A. Five years from date of completion of terrazzo refinishing.

## 1.6 SUBMITTALS

- A. Submit in accordance with Section 01300
- B. Submit manufacturer's specifications and technical data for precast terrazzo tile and accessories; including manufacturer's printed installation instructions and maintenance manuals for each material specified.
- C. Samples for Selection: Submit manufacturer's samples of actual sections of tile and accessories; include manufacturer's full range of color and patterns available.
- D. Samples for Verification Prior to Installation: Submit full size samples of all types, colors, and patterns selected, indicating full range of patterning and color variations.
- E. Test Reports: Submit test reports for bond and moisture tests of substrates.

Certificates: Submit certificates from manufacturer stating compliance with applicable requirements for materials specified.

#### 1.7 QUALITY ASSURANCE

- A. Installer Qualifications: A firm that has at least three years of experience with the installation of precast terrazzo tile and has successfully completed installations of a similar size and scope.
- B. Regulatory Requirements: Comply with requirements of local building codes and applicable regulations of other government authorities.
- C. Pre-Installation Meeting: Meet with tile manufacturer's representative prior to preparation of substrate and installation of tile, to review manufacturer's instructions and requirements to ensure the tile is installed properly.

#### 1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in original, unopened packages, containers or bundles bearing brand name and identification of manufacturer.
- B. Store materials inside, under cover in a manner to keep them dry, protected from the weather, direct sunlight, surface contamination, corrosion, and damage from construction traffic and other causes.

#### 1.9 PROJECT CONDITIONS

- F. Maintain minimum temperature of 70 degrees F (21 degrees C) in spaces to receive terrazzo tile, for at least 48 hours before, during and after installation. Store materials in space where they will be installed for at least 48 hours or as required ensuring that the materials have reached 70 degrees F (21 degrees C) before starting installation.
- G. Install terrazzo tile and accessories after other finishing operations, including painting, have been completed.
- H. Do not install terrazzo tile on concrete slabs until they have been cured and are sufficiently dry to achieve bond with adhesives, as determined by the tile manufacturer's recommended bond and moisture test. Allow sufficient time for the slab to dry out before installation is started.
- I. Provide adequate lighting to allow for proper installation.
- J. Do not use portable or temporary heat.

#### 1.10 WARRANTY

- K. Submit 20 year wear warranty written material warranty from tile manufacturer warranting that tile is free from defects in workmanship and material.
  - 1. Products must be installed so as not to void the manufacturer's warranty for wear.
  - 2. Warranty shall be in form acceptable to Owner.

#### 1.11 MAINTENANCE

- L. Extra Materials: Furnish one box of tile for each fifty boxes or fraction thereof, for each type, color, pattern and size of the tile installed, from same manufactured lot as materials installed.
  - 1. Deliver extra tile to Owner after completion of work.
  - 2. Furnish tiles in protective packaging with identifying labels.

## PART 2 - PRODUCTS

## 2.1 MATERIALS

## A. Existing flooring to remain.

Strips: Existing to remain

1. Divider brass, 1/8 inch gauge, with a depth of 1-1/4 inches for a topping thickness of 1/2 inch.

## B. Terrazzo Cleaner:

1. Ph factor between 7 and 10, where applicable.
2. Biodegradable and phosphate free.

## C. Sealer:

1. Ph factor between 7 and 10, where applicable
2. Shall not discolor or amber
3. Penetrating type specially prepared for use on terrazzo.
4. Flash Point: ASTM D 56, 80 degrees Fahrenheit minimum, where applicable.
5. U/L listed as "Slip Resistant": "Slip Grip ADA Slip Resist Treatment", as distributed by ADA Construction Services.

## D. Terrazzo Tile: Marble, glass and/or granite chips embedded in flexible thermoset polyester resin matrix, with random distribution of chips and smooth factory applied urethane coating cured by ultra violet exposure process.

1. Color/Pattern/Thickness: As selected by Architect from manufacturer's full range of Classic and Natural Quarry Collections.
2. Color Match: Obtain all tile materials from same production run.

## E. Leveling Compound: Leveling compound products as recommended by manufacturer.

1. Acceptable leveling compound manufacturer: Ardex
2. Refer to [www.Ardex.com](http://www.Ardex.com) for recommendations and installation methods.
3. Approved equal.

## F. Patching Compound: Patching compound products as recommended by manufacturer.

1. Acceptable patching compound manufacturer: Ardex patching compound products.
2. Refer to [www.Ardex.com](http://www.Ardex.com) for recommendations and installation methods
3. Approved equal.

## G. Floor Adhesive:

1. FA88 Powdered Multipurpose Adhesive
2. Fritz FA1100 Pre-Mixed Wet Set Adhesive

## H. Sealer and Finish: Two coats of Fritz FCP102 protective sealer and two coats of Fritz Duro-Gloss Finish FCP300, applied as recommended by manufacturer.

I. Sealant: Silicone, as specified in Section 07900, and of type approved by tile manufacturer.

J. Performance Requirements of Terrazzo Tiles:

3. FloorScore® Certification: Third party certification for indoor air quality emissions criteria of LEED, CHPS, and the Green Guide for Health Care.
4. Abrasion Resistance: Maximum 0.0196 cubic centimeters volume loss, when tested in accordance with ASTM F 510, Taber abrader, S-39 wheels, at 500 cycles with 1000 gram load.
5. Compressive Strength: Between 2900 and 5000 psi (20 and 34.5 MPa), when tested in accordance with ASTM C 109/C 109M or ASTM D 695.
6. Static Load Limit: 0.0007 inch (0.012 mm) maximum indentation, when tested in accordance with ASTM F 970 at 125 pounds (57 kg).
7. Hardness: When tested in accordance with ASTM D 2240:
  - a. Matrix: Shore D 78, minimum
  - b. Aggregate: Between Barcol 55 and 100
8. Coefficient of Friction: Greater than 0.7, average 0.74, when tested in accordance with ASTM D 2047.
9. Flame Spread Index: 15, maximum, when tested in accordance with ASTM E 84.
10. Smoke Density: Specific optical density, when tested in accordance with ASTM E 662, of 231.76 (smoldering) and 292.05 (flaming).
11. Critical Radiant Flux: Minimum of 0.93 watt/cubic centimeter (Class 1) when tested in accordance with ASTM E 648.
12. Chemical Resistance: No change or surface attack, color change, or swelling, when tested in accordance with ASTM F 925.
13. Oil Resistance: Complying with MIL D-3134.
14. Corrosion Resistance: Complying with MIL D-3134.
15. Electrical Conductance: Nonconductive.
16. Squareness: 0.003 inch (0.076 mm) out of square, maximum, when measured in accordance with ASTM F 540.
17. Acoustical Testing:
  - a. ASTM E492-09/ASTM E989-06 (IIC) = 43 dB
  - b. ASTM E90-09/ASTM E413-10 (STC) = 54 dB

## 2.2 MIXES

- A. Terrazzo Selection: Match existing flooring as required for filling of holes etc. and repair of existing.

## PART 3 - EXECUTION

### 3.1 INSPECTION

- A. Examine areas to receive terrazzo for:

1. Defects in existing work that affect proper execution of terrazzo work.

2. Deviations beyond allowable tolerances for the concrete slab work.

B. Start work only when all defects have been corrected by others.

### 3.2 CONCRETE SUB FLOOR:

A. Inspect subfloor to verify that it is clean, flat, smooth, level and free from cracks, holes, ridges, coatings preventing adhesion, and other defects impairing performance or appearance.

B. Notify Architect of conditions that would adversely affect flooring installation; do not proceed until defective conditions have been corrected.

3.2 Perform bond and moisture tests on concrete subfloors to determine if surfaces are sufficiently cured and dry as well as to ascertain presence of curing, sealing, hardening or any other compounds.

A. Perform bond test in accordance with tile manufacturer's warranty requirements.

B. ASTM F 1869-11. Moisture Vapor Emission test using Anhydrous Calcium Chloride. Maximum Allowable Readings: FA88= 10 pounds per 1000 square feet in 24 hours, FA1100=7 pounds per 1000 square feet in 24 hours

C. ASTM F2170-11, Relative Humidity (RH) test using situ probes. Maximum Allowable Readings: FA88=90%RH, FA1100=87%RH

D. Submit test results and obtain Architect's acceptance prior to beginning installation.

3.3 Do not proceed until substrate preparation is complete and satisfactory, bond and moisture tests are completed and test reports submitted which indicate that bond and moisture values meet specified requirements.

### 3.4 INSTALLATION

A. Finishing:

1. Rough Grinding:

- a. Grind with 24 or finer grit stones or with comparable diamond plates.
- b. Follow initial grind with 80 or finer grit stones.

2. Grouting:

- a. Cleanse floor with clean water and rinse.
- b. Remove excess rinse water and machine or hand apply grout, taking care to fill voids.
- c. Cure grout:

3. Fine Grinding:

- a. Grind with 80 or finer grit stones until all grout is removed from surface.
- b. Upon completion, terrazzo shall show a minimum of 70% marble chips.
- c. Finish flooring shall have a Static Coefficient of Friction of 0.6 in accordance with ADA requirements.

B. Cleaning and Sealing:

1. Wash all surfaces with a neutral cleaner.
2. Rinse with clean water and allow surface to dry.
3. Apply sealer in accordance with manufacturer's directions.

C. Protection:

1. Upon completion, the work shall be ready for final inspection and acceptance by the Owner or his agent.
2. Protect the finished floor at the time that the work is completed.

### 3.5 RESILIENT TERRAZZO TILE INSTALLATION

- A. Comply with manufacturer's instructions for terrazzo tile installation.
- B. Scribe, cut and fit tile to permanent fixtures, built-in furniture, cabinets, pipes, outlets and permanent columns, wall, and partitions using tile-cutting procedures recommended by tile manufacturer.
- C. Maintain reference markers indicated on subfloor for future cutting, by repeating on finished terrazzo tile floor.
- D. Lay tile from center marks established with principal walls discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid use of cut widths less than one half tile at perimeters. Lay tile square to room axis, unless otherwise indicated.
- E. Adhere tile flooring to substrate using full spread of adhesive.
- F. Lay tile using conventional procedures for laying resilient tile, placing tile carefully and firmly in position and as level as possible. Butt tile cleanly, evenly and snugly against adjacent tile.
- G. Match tiles for color and pattern by using tile from cartons in same sequence as manufactured and packaged, if cartons are so numbered. Do not install broken, cracked or chipped tiles.
- H. Roll and cross roll floor with 150-pound sectional roller continuously while tile is being laid. Use hand roller in areas that cannot be reached with large roller. Cease rolling when rolling has no more effect.
- I. Do not subject floors to traffic until adhesive is dry and hard and sealers and finishes are applied.
- J. Remove and replace tiles that are not flat, including lipped, cupped, curved, or poorly adhered tile. Remove rejected tile from site.

### 3.6 PREPARATION

- A. Fill small cracks, holes and depressions in subfloors using leveling and patching compounds recommended by tile manufacturer.
- B. Remove deleterious coatings from subfloor surfaces that would prevent a positive adhesive bond; such as curing compounds incompatible with adhesives, paints, oils, adhesives, waxes and sealers.
- C. Completely remove existing solvent-based adhesives to prevent bleed through and staining.
- D. Remove existing floor covering and condition subfloor to provide smooth, clean continuous surface; level subfloor with self-leveling compound in compliance with tile manufacturer's specifications and installation instructions.

END OF SECTION 09 66 00

## SECTION 10 28 00 - TOILET ACCESSORIES

## 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: Each type of toilet accessory is shown on the drawings and/ or in the specification.
- B. Related Sections:
  - 1. Wood blocking – Division 6.
  - 2. Electrical Roughing – Division 26.

## 1.3 QUALITY ASSURANCE:

- A. Inserts and Anchorages:
  - 1. Furnish inserts and anchoring devices which must be set in concrete or built into masonry for the installation of toilet accessories. Coordinate delivery with other work to avoid delay.
  - 2. See concrete and masonry sections of these specifications for installation of inserts and anchorage devices.
- B. Products:
  - 1. The Basis of Design is Bobrick Washroom Equipment, Inc.
  - 2. Provide products of the same manufacturer for each type of accessory unit and for units exposed in the same areas.
  - 3. Stamped names or labels on exposed faces of units will not be permitted.
  - 4. Provide locks for all dispensing units, with the same keying for each type of accessory units in the project wherever possible. Furnish two keys for each lock.

## 1.4 SUBMITTALS:

- A. Manufacturer's Data: For information only, submit copies of manufacturer's technical data and installation instructions for each toilet accessory.
- B. Samples: When requested, submit full-size samples of units for review of design and operation. Acceptable samples will be returned and may be used in the work. Compliance with all other requirements is the exclusive responsibility of the Contractor.
- C. Setting Drawings: Provide setting drawings, templates, instructions and directions for installation of anchorage devices in other work.

## PART 2 - PRODUCTS

## 2.1 MATERIALS:

- A. Stainless Steel: AISI, Type 302/304, with polished No. 4 finish, unless otherwise indicated.
- B. Brass: Cast or forged quality alloy, FS WW-P-541.
- C. Sheet Steel: Cold rolled, commercial quality, ASTM A 366. Surface preparation and metal pretreatment as required for applied finish.
- D. Galvanized Steel Sheet: ASTM A 527, G60.
- E. Chromium Plating: Nickel and chromium electro-deposited on metal, ASTM B 456, Type SC 2.
- F. Baked Enamel Finish: Factory-applied, gloss white, baked acrylic enamel coating.
- G. Mirror Glass: ASTM C1036, Class 1, Quality q1, 1/4" thick, with silver coating, copper protective coating, and non-metallic paint coating.
- H. Galvanized Steel Mounting Devices: ASTM A 386, hot-dip galvanized after fabrication.

## 2.2 ACCESSORY SCHEDULE: (SEE DRAWINGS FOR SCHEDULE)

- A. The accessories indicated include, but are not necessarily limited to:
  - 1. Toilet Tissue Dispenser
  - 2. Toilet Tissue Holder
  - 3. Soap Dispensers
  - 4. Paper Towel Dispenser
  - 5. Sanitary Napkin/Tampon Dispensers
  - 6. Sanitary Napkin/Tampon Disposers
  - 7. Metal Framed Mirrors
  - 8. Tilt Mirrors
  - 9. Electric Hand Dryers
  - 10. Grab Bars
  - 11. Robe Hooks
  - 12. Waste Receptacles.
  - 13. Baby Changing Tables.

## PART 3 - EXECUTION

## 3.1 INSPECTION:

- A. Examine the areas and conditions under which toilet accessories are to be installed and do not proceed with the work until unsatisfactory conditions have been corrected.

## 3.2 INSTALLATION:

- A. Use concealed fastenings.

- B. Provide anchors, bolts and other necessary anchorages, and attach accessories securely to walls and partitions in locations as shown.
  - 1. Install grab bars so as to sustain a dead weight of 250 pounds for five minutes.
- C. Install concealed mounting devices and fasteners fabricated of the same material as the accessories, or of galvanized steel, as recommended by manufacturer.
- D. Install exposed mounting devices and fasteners finished to match the accessories.
- E. In public spaces, provide theft-resistant fasteners for all accessory mountings.
- F. Secure toilet room accessories in accordance with the manufacturer's instructions for each item and each type of substrate construction.

END OF SECTION 10 28 00

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

# Dayton® Deep Well Submersible Pumps

## Description

Dayton deep well submersible pumps are designed for use in 4" (or larger) interior diameter wells in home, farm, and industrial deep well applications. Units include pump and motor completely assembled. Three-wire units require a control box which must be ordered separately.

### ⚠ WARNING

**Hazardous voltage. Can shock, burn, or kill. To reduce risk of electrical shock, install pump in accordance with latest United States National Electrical Code (NEC), Article 250, Canadian Electrical Code, and all local electrical codes. Connect motor grounding wire (green wire) to power supply system ground using copper conductor at least as large as conductors supplying power to motor.**

Pump is designed for use in a water well supplying a domestic water system and has not been investigated for use in other applications. Do not use this pump in swimming pools.



ENGLISH

ESPAÑOL

FRANÇAIS

Well pump # 6  
Replaced  
8-7-2017  
Ctk Electric  
(Bob)

MODEL 1LZU5

10GPM, 1/2HP, 230V, 2WIRE  
558663

SN 16M141600291A  
Date Code 16M14



Form 555676  
106203101 Rev. 03 6.12

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