

## RFI Package No. 1 - Revised 12/4/2015

#	Comment / Observation	Response	Made by
1	What is the deadline for RFIs?	Monday, November 30, 2015	JG
2	I cannot locate Attachment #1 and #2 (Contract Experience Form and Past Performance Questionnaire) referenced on page 13 of the Solicitation under Evaluation Factor 2. Can you please supply these?	See amendment 02	JG
3	Please confirm that the requirement for the Contract Experience Forms and Past Performance Questionnaires applies to the projects referenced in Evaluation Factor 1	See amendment 02; II. Proposal Preparation and Evaluation Information	JG
4	How do you define "performed in an active healthcare environment" referenced on p. 13 under Factor 1? Mule has a number of new construction projects for medical clinics which are now in use. Would those projects qualify under these criteria?	Performed in an active healthcare environment means; healthcare facility was fully operational during your contract to include working in an environment where with staff and patients were onsite. Faculties that were not fully operational will not be considered.	JG
5	Water Closet WC-1 is being replaced as an Anti-ligature wall-hung water closet. Is there additional information that can be provided since the price range of anti-ligature water closets varies greatly?	Submitted material will be reviewed in accordance with project specifications. Ensure Water Closet meets requirements as per Specification Section 22.	DWM
6	We have to assume that the new water closets WC-1 will require wall carriers and new water and sewer rough-in. Are plans available showing what is existing in the chase wall for carriers and piping?	No plans exist that show exact conditions. It is expected that water rough-in locations are expected to remain as-is, but shall be verified based on submitted fixture.	DWM
7	LAV-1 is also designated as an anti-ligature faucet. The specifications state that we "match existing faucet punching dimension".	Submitted material will be reviewed in accordance with project specifications. Ensure faucet meets requirements.	DWM
8	Can a cut-sheet of the existing fixture be provided?	Field investigation is required, existing fixture cut sheets are not available.	TG
9	Also, the anti-ligature faucets typically have sensors. Are we to assume electrical rough-in location and if so, will you provide a "nearest junction box" location for this rough-in?	Please see sheet E250, E251, and E252 of the Construction Documents.	TG
10	In our research in locating an anti-ligature faucet, we find that the only way to get an anti-ligature faucet is provide the lavatory also. Does the VA know of a manufacturer that would supply anti-ligature facets that can be installed in an existing lavatory?	Submitted material will be reviewed in accordance with project specifications. Ensure faucet meets requirements as per Specification Section 22. The fixtures currently installed in like lavatories, and used as a basis of design, are the Behavioral Safety Products Ligature Resistant Sensor Faucet, Item No. SF370.	DWM
11	Addendum #1 issued new specifications. The only change in these specifications from the original issued specifications is the page numbering system. Please confirm this is the only change made to the specifications.	The solicitation is complete as submitted; any addition changes will be done via an Amendment.	DWM
12	Addendum #1 has issued 19 new plans. After reviewing these plans, we cannot find any revisions to these plans, with the exception of adding drawing P200A. Please identify the changes to the plans included in addendum #1.	The solicitation is complete as submitted; any addition changes will be done via an Amendment.	TG
13	SH-1 is not designated as anti-ligature. Would you prefer the shower be anti-ligature also?	The removal of anti-ligature fixtures are not intended within the 5th Floor showers. Please see sheet A410 and A813 for specific notes and details.	DWM
14	The floor drains are designated as "re-used". With the complexity of the floor drain elevation matching the sloped floor, this will require raising the drain slightly. Are the exiting drains capable of being adjusted to match the raised "sloped" floor without having to modify the drain piping below the showers?	Record documents do not indicate integral shower pan and drain. If existing conditions differ during demolition phase, notify the COR immediately.	TG
15	Plumbing dwg notes indicate to relocate existing shower drains. Architectural Dwgs indicate existing drains to remain in place. Please confirm which is correct.	The existing shower drains are to remain in place.	TG
16	Wall types are shown on sheet A813 at the various bathrooms, however these walls appear to be existing already. Please confirm that these are existing walls.	All walls are existing.	TG

## RFI Package No. 2 - Revised 12/4/2015

#	Comment / Observation	Response	Made by
1	Plan Sheet A100 Detail 6 indicates a 4.25" x 6" x 1/2" Bearing Plate to weld the handrails to. Is this bearing plate existing or is it to be installed under this Contract?	Bearing plate is to be installed under this contract.	TG
2	Plan Sheet A100 Detail 6 shows what appears to be flashing across the parapet wall and then counterflashing on the roofing side. It indicates that through wall flashing is to remain and be protected, but it appears that we will have to modify and/or weld through it. Please confirm the flashing assembly and the intent as it relates to protecting the flashing. Also, is there no additional flashing required after the handrail is installed?	Details 6 & 7 – existing flashing to be reused, modified to maintain water tightness and accommodate bearing plate.	TG
3	Plan Sheet A100 Detail 6, how is the existing coping attached to the building? What is the length of the coping pieces?	Record documents indicate continuous clips; lengths of coping are not indicated.	TG
4	During the site visit it appears that additional rubber flooring will have to be installed after the exterior doors are widened. Is there stock materials in the VA's hands that can be utilized for patching or does the Contractor have to supply? If the Contractor is to supply, please specify what materials are to be utilized?	No stock material exists for Johnsonite Rubber use. Documentation states material is 38 Pewter.	DWM
5	At each door that is to be widened, the flooring is to be patched with materials that match existing. Is there stock materials in the VA's hands that can be utilized for patching or does the Contractor have to supply? If the Contractor is to supply, please specify what materials are to be utilized?	No stock material exists for use. Please see attached Bed Tower Finish Schedule (Specification Section 09050, Project No. 573-070).	DWM
6	It is understood that the Contractor can only work on widening exit doors on one stairwell at a time, but are there any restrictions on how many doors can be removed within one stairwell, reinstalled and so forth at any one time? Each day?	No, contractor may work on all doors within a single stairwell. Necessary Construction Barrier is required as per Specification Section 01 35 26. Placement of partitions/barriers are to be coordinated with the COR for each impacted area.	DWM
7	Sheet A251 has several new walls to be installed but no existing conditions drawing exists indicating the existing construction and how it is to be modified. There are acoustical ceilings, drywall bulkheads, flooring, and walls that will have to be removed. Very little information about what has to be completed is shown. We ask that the following be addressed: a. The flooring of the existing visiting lounge is carpet; however, the stair well has resilient flooring. Please provide what kind of flooring and where to start and end the flooring. b. There is a wall that has to be removed to provide access to the new exit door for stair 10. What extent of this wall has to be removed? c. The new wall adjacent the lockers is a 2 hour rated wall. It will have to be extended up to the floor above and will have to go through a tamper resistant security ceiling. No reflective ceiling plan exists to indicate this work and to indicate what kind of ceiling is scheduled for the stairwell. Please advise and provide direction. Also, please provide a specification on the ceilings. This also applies to other walls in the same area. d. The new wall adjacent the lockers also has a light fixture that will have to be relocated but it is not shown on the electrical drawings. Please advise as to where to relocate this light fixture. e. The new 2 hour rated wall for stair 10 that is adjacent the Corr C5-43A also will have to be extended to the floor above. There is what appears to be a drywall bulkhead above. Please provide direction on what is to be done with the bulkhead. f. Will all of this work be completed at once or phased to make sure that the corridor and exit door to stair 10 remains open? Work to be phased so access to Stair 10 remains open.	a-e. responses made on updated detail sheet (A251, attached). f. Work to be phased so access to Stair 10 remains open.	TG & DWM
8	There are many areas that will have drywall patching work that will be necessary at the new automatic door openers, the widening of the doors, the new partitions at the level 5 sally ports and so forth but the extent of painting is not identified. Will just painting the new drywall and patches be sufficient? If not, please provide some parameters on what will be required to be painted?	Documents indicate paint new work and paint patch work to blend with surrounding finishes; painting from corner-corner is accepted method of blending painted surfaces.	TG & DWM

9	It is our understanding that all interior door openings are in Gypsum Board Assemblies and that all exterior door openings are in in precast concrete. Please confirm that this is correct.	This is correct.	TG
10	Sheet A900, detail 1 indicates a typical stud framing elevation. At the door opening it indicates that there is a metal runner at the head, bracing over the door opening that extends outside of the door opening and 20Ga Double Studs at the jambs that run from the finished floor to the bottom of the roof or floor assembly above. We interpret this detail as being applied to not only when we are installing new drywall partitions but also in widening the interior doors. Based on this, in order to meet this detail, the drywall at each widened door will have to be removed from floor to ceiling and one stud spacing over from the sides of the door. Please confirm whether this was the intent or whether the A/E has another assembly in mind for the door widening scope in drywall partitions?	Detail 1 on Sheet A900 applies to all doors in new and existing GWB/metal stud walls.	TG
11	Sheet A813 indicates several different typical patient rooms. Please provide how many of each typical room exists, so that we can fully understand the scope of the 221 showers to be modified.	Individual room configurations do not apply. All showers identical to the configuration and modification details shown on Sheet A410 apply. There are 221 showers that meet this configuration.	TG
12	Sheet A813, detail A1 indicates a typical third floor patient room that appears to not match the typical shower plan on sheet A410. Please advise what is to be completed in this room.	See reply to #11 above. Only showers that match configuration on A410 apply.	TG
13	Sheet A813 labels the walls which insinuate that they are new walls. Please confirm that these walls are all existing and no new walls are required.	No new walls required. This sheet indicates existing conditions.	TG
14	Please provide a resinous flooring specification. Stonhard products are indicated for the shower but no specification exists for the product. It is assumed that the product desired is an epoxy seamless flooring system with quartz broadcast aggregate. Please confirm. Also, the complete assembly of the stonhard product is not indicated or is shown incorrectly. For instance, the stonhard product ME7, as indicated, is typically applied to the existing substrate prior to installation of the mortar fill.	Specifications provided. See attached Specification Section 09 67 23.	TG & DWM
15	It appears that all shower walls are gypsum board assemblies. If this is correct, once the existing precast shower pan is removed, there will be no substrate to apply the epoxy floor/wall system to because these types of pans are typically installed directly to the framing. This will require the installation of a gypsum board product and potentially additional framing to meet deflection criteria. Please provide a detail on how to frame and what products to utilize as the substrate for the wall system.	No new framing required. See Specification 09 67 23.20 (new issue), page 11, para F for substrate required.	TG
16	Once the tile is removed from the wall, the wall will not be suitable for installation of the epoxy system. Thinset or mastic will have to be mechanically removed and this will leave the substrate in a condition that will not provide for an aesthetically pleasing finished product. Please provide direction on what kind of finish is to be provided, and how the substrate is to be prepared to accomplish that finish.	See spec section 09 67 23.20, section 3.4, Preparation.	TG & DWM
17	The existing drain assembly in the showers is integrally cast into the precast shower pan and will most likely be unusable with the epoxy system after the precast pan is demolished. The drain will also need to be lowered to achieve the slopes and details provided on A410. The plumbing drawings do not indicate to replace the drain but do indicate to lower the drain on level 5 only. Please advise	The record documents do not indicate an integrally cast in drain. The drain is separate and to be reused. Contractor to verify this during mock-up phase. Drains are lowered on all floors per Detail 3 on Sheet A410.	TG
18	Sheet A410, indicates that a 5" threshold pate is to be installed. Please specify this product or what the threshold is to consist of.	Note 4 and 13 indicate a 5" wide flat plate threshold transition up to the resinous floor shower pan – Plate shall be 3/8" thick Stainless Steel.	TG
19	19) The contract time of 250 days is not sufficient for completion of the showers with the epoxy system that is specified. It is our understanding that there are 221 showers and that we will have 10 showers at a time. This means that there will be 22 mobilizations to complete the shower work. Based on our experience with projects just like this one, we believe each mobilization will take 13 working days which is the equivalent of 17 calendar days (on a 5 workday week schedule) to complete the work. 17 calendar days x 22 mobilizations is 374 calendar days. Add 60 days for submittals and procurement of materials (materials are typically made to order)and you are at 434 calendar days. The following is a breakdown of each mobilization and the amount of time required due to curing times of the products specified:	Spec section 01 00 00, para 1.3, Item A (1) states the VA will allow 7 day work weeks. Contractor to provide means and methods to meet completion schedule.	TG

20	Considering the volume of showers, the specialty nature of the epoxy system, and the potential liability of having 221 showers installed incorrectly, is the Government requiring that any of the relevant project experience of the Prime Contractor be in renovating showers with an epoxy flooring system?	Specification Section 09 67 23.20 enumerates qualifications of installer and mock-up requirement.	TG
21	Sheet A900 indicates corner guards but the plan does not indicate where to install or how many is required. Please provide direction and a Specification if they are required.	New details to be issued showing relocated corner guards on 5th floor only. No new corner guards needed.	TG
22	22) Specification 01 35 26 Part 1.12 B. indicates that the primary scope area, as it pertains to infection control requirements, is class 2; however, work outside of the primary project scope area may vary. It is unclear as to what will be required. Please provide direction on what the precautions and barriers that will be required for the following scope:	a. Shower modifications. <b>Yes</b> b. Exit Doors at bottom of stairs. <b>No</b> c. Exit doors at each level. <b>Yes</b> d. Sally port work on level 5. <b>Yes</b> e. Drywall Patch Work at New Door Operators Push Buttons. <b>Yes</b>	TG & DWM
23	Will security walls be required at exterior doors removed if the doors are not replaced and back in working order before the end of the day?	Construction area is to remain secured at all times to ensure no unauthorized entry.	DWM
24	Based on the scope of this project, there will be multiple activities taking place at the same time in different locations through-out the bed tower. Will the Government require that the Prime Contractor have a presence, such as a Supervisor or safety manager, at each location that work is taking place? For instance, if work is being done in the showers and the roof at the same time, will the Contractor be required to have personnel at both locations?	It is not required that the Prime Contractor have staffing at each area of construction, however, it is required that the Prime Contractor have a competent person at the site at all times the Prime Contractor or subcontractors are working at the site.	DWM
25	Please confirm the following, OSHA 30 hour training is required of the Prime Contractor Field Superintendent and all subcontractor personnel shall have a minimum of OSHA 10 Hour training? Do any of the Subcontractor's personnel have to be 30 hour trained?	OSHA 30 hour training is required of the Prime Contractor Field Superintendent All subcontractor personnel shall have a minimum of OSHA 10 Hour training	
26	How close will the Contractor be able to put a jobsite trailer?	At this time we have no location available for the contractor to drop a jobsite trailer.	DWM
27	How close to the building will the Contractor be able to put a dumpster?	The contractor may drop a dumpster in the street adjacent to Trailer No. 7 (where other dumpsters are currently located.) Exact placement to be coordinated with COR.	DWM
28	Is there going to be any designated parking provided? If so, how close to the facility?	Designate parking is available for 'contractors', but is not specific to what contractors and is on a first come/first park basis.	DWM
29	Is there restriction on the number of vehicles that will be allowed on the grounds, also will the parking be in close proximity to the center?	The number of vehicles shall be limited to the number of spaces available. Parking in unauthorized areas will result in a ticket or possible towing. It is suggested that multiple people carpool.	DWM
30	Reference Amendment #1, Part #1, Page 13. Under the heading "Technical Factors", Factor 2 – OSHA Certification, the following attachments are referenced: • Project submitted must use the attached Contract Experience Form-See Attachment #1 • Each project submitted must be accompanied by a Past Performance Questionnaire Form- See Attachment #2 Are these items intended to be in the OSHA Certification section? Also, we cannot find the referenced attachments in the Amendment.	<b>Forms / Attachments issued in Amendment 02</b>	

## SECTION 09050 - INTERIOR/ EXTERIOR FINISHES, MATERIALS AND FINISH SCHEDULE

VAMC: Malcom Randall

Location: Gainesville, FL

Project No.: 05167-00

Submission Date: ~~February 1, 2008 / Amendment No. 1: 04/18/2008 // SI#02, 12/03/2008 / SI#03, 06/11/09~~

~~FIFTH FLOOR REVISIONS 11/13/2009 / REV 03/30/2010 / REVISED 04/12/2010 / Rev 04/21/2010 /~~ **Rev 06/15/2010**

\*NOTE: MATERIALS NOT IN PROJECT HAVE BEEN OMITTED FROM REVIEW.

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**SECTION 09050**  
**INTERIOR / EXTERIOR FINISHES, MATERIALS AND FINISH SCHEDULE**

**PART I - GENERAL**

**1.1 DESCRIPTION**

This section contains a coordinated system in which requirements for materials specified in other sections shown are identified by abbreviated material names and finish codes in the room finish schedule or shown for other locations.

**1.2 MANUFACTURERS**

Manufacturer's trade names and numbers used herein are only to identify colors, finishes, textures and patterns. Products of other manufacturer's equivalent to colors, finishes, textures and patterns of manufacturers listed that meet requirements of technical specifications will be acceptable upon approval in writing by contracting officer for finish requirements.

**1.3 SUBMITALS**

Submit in accordance with Section 01340, Samples and Shop Drawings provide quadruplicate samples for color approval of materials and finishes specified in this section.

DESIGNER NOTE: See instructions.

1. COLOR SLIDES-INTERIOR VIEWS:

Room Number and Name	Item/View to be Photographed
1.	
2.	
3.	

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#### 1.4 APPLICABLE PUBLICATIONS

A. Publications listed below form a part of this specification to the extent referenced. Publications are referenced in text by basic designation only.

B. MASTER PAINTING INSTITUTE: (MPI)

2001.....Architectural Painting Specification Manual

#### PART 2- PRODUCTS

##### 2.1 DIVISION 3 - CONCRETE

A. ARCHITECTURAL PRECAST CONCRETE (03450)

Finish Color	Texture	Finish	Manufacturer	Mfg. Color Name/No.
PCP1	Retarded	Medium	Gate Precast	GPK - 1596 (MR)
PCP2	Sandblasted	Medium	Gate Precast	GPK - 1596 (LA)
Site Furnishings - Planters, Benches, Trash Receptacles	Cast Stone	LSB Finish	Dura Art Stone	S-3 White, Trash receptacle, Std. LID with gray color.

##### 2.2 DIVISION 5 - METALS

A. METAL FABRICATIONS (05500)

Component	Material	Finish	Manufacturer	Mfg. Color Name/No.
Security Screen - Frame	12 ga. Min. galvanized steel	Thermoplastic powder coat	Kane Screens	Custom to match window frames
Security Screen - Infill	12 mesh, 0.028" Stainless steel mesh	Thermoplastic powder coat	Kane Screens	Black

B. EXPANSION JOINT COVER ASSEMBLIES (05810)

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Item	Material	Style	Manufacturer	Mfg. Color Name/No.
Floor Component Cover Plate Frame Casket or Sealant (interior only)	EJC	GFR-300/GFRW-300 (For areas w/VCT) GFRD-300/GFRWD-300 (For areas w/carpet)	C/S Group	Santoprene Seal Color: Greige
Wall Component Cover Plate Frame Casket or Sealant (interior only)	EJC	FWF-200/FWFC-200	C/S Group	Santoprene Seal Color: White
Ceiling Comp. Cover Plate, Gasket or Sealant (int. only)	EJC	FWF-200/FWFC-200 (For GWB ceilings) FCF-200/FCFC-200 (For AT ceilings)	C/S Group	Santoprene Seal Color: White
Floor Component Cover Plate Frame (interior only, new to existing)	EJC	107-A01-025	Inpro Jointmaster	Santoprene Seal Color: Greige
Surface Mount Wall System (Exterior only, wall to wall)	EJC	651-A07-050	Inpro Jointmaster	Match adjacent architectural metal panels
Surface Mount Wall System (exterior only, wall to corner wall)	EJC	651-A09-050	Inpro Jointmaster	Match adjacent architectural metal panels
Architectural Compression Seal	Neoprene	1000-AR	Inpro Jointmaster	Beige
Exterior Surface Mount Expansion Joint Cover	Aluminum Cover Plate	651-A07/A09	Inpro Jointmaster	Match adjacent architectural metal panel finish
Sheet metal	Stainless steel			Mill

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expansion joint cover assembly				
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### 2.3 DIVISION 6 - WOOD AND PLASTIC

#### A. FINISH CARPENTRY AND MILLWORK (06200)

1. RECEPTION COUNTER PUBLIC SIDE					
Room No. and Name	Component	Material	Manufacturer	Finish	Color
C1-1 Info Desk	Countertop	SS-2	Wilsonart Gibraltar	Solid Surface	Midnight Melange 9091ML
	Vertical Surface(s)	HPDL-1	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
	Trim				Match adj. surface
	Reveal (refer to Section Details) AE930	HPDL-2	Wilsonart	Plastic Laminate	6252 (419) Matte Natural Aluminum
	Base	CB-1	Crossville		VS51 Pietra Vecchia

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2. RECEPTION COUNTER STAFF SIDE					
Room No. and Name	Component	Material	Manufacturer	Finish	Color
C1-1 Info Desk	Countertop	SS-2	Wilsonart Gibraltar	Solid Surface	Midnight Melange 9091ML
	Vertical Surface(s)	HPDL-3	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
	Trim				Match adj. surface
	Reveal				Refer to Sect.Detail
	Base	VB-1	Johnsonite	Vinyl Base	<del>80 Fawn</del> <b>49 Beige</b>

3. CLINIC RECEPTION COUNTER PUBLIC SIDE					
Room No. and Name	Component	Material	Manufacturer	Finish	Color
C1-48 OPT. Reception	Countertop	SS-2	Wilsonart Gibraltar	Solid Surface	Midnight Melange 9091ML
	Vertical Surface(s)	HPDL-5	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
	Trim				Match adj. surface
	Reveal				Refer to Sect.Detail

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	Base	CB-1	Crossville		VS51 Pietra Vecchia
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4. CLINIC RECEPTION COUNTER PUBLIC SIDE					
Room No. and Name	Component	Material	Manufacturer	Finish	Color
C1-7 Specimen Collection Reception	Countertop	SS-2	Wilsonart Gibraltar	Solid Surface	Midnight Melange 9091ML
	Vertical Surface(s)	HPDL-6	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
	Trim				Match adj. surface
	Reveal				Refer to Sect.Detail
	Base	CB-1	Crossville		VS51 Pietra Vecchia

5. CLINIC RECEPTION COUNTER PUBLIC SIDE					
Room No. and Name	Component	Material	Manufacturer	Finish	Color
C1-12 ENT. Reception	Countertop	SS-2	Wilsonart Gibraltar	Solid Surface	Midnight Melange 9091ML
	Vertical Surface(s)	HPDL-7	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
	Trim				Match adj. surface

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	Reveal				Refer to Sect.Detail
	Base	CB-1	Crossville		VS51 Pietra Vecchia

6. CLINIC RECEPTION COUNTER PUBLIC SIDE

Room No. and Name	Component	Material	Manufacturer	Finish	Color
C1-14 Urology Reception	Countertop	SS-2	Wilsonart Gibraltar	Solid Surface	Midnight Melange 9091ML
	Vertical Surface(s)	HPDL-8	Pionite	Plastic Laminate	7919K - 78 Amber Cherry
	Trim				Match adj. surface
	Reveal				Refer to Sect.Detail
	Base	CB-1	Crossville		VS51 Pietra Vecchia

7. CLINIC RECEPTION COUNTER STAFF SIDE (TYPICAL)

Room No. and Name	Component	Material	Manufacturer	Finish	Color
TYPICAL	Countertop	SS-2	Wilsonart Gibraltar	Solid Surface	Midnight Melange 9091ML
	Vertical Surface(s)	HPDL-3	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
	Trim				Match adj. surface

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	Reveal				Refer to Sect.Detail
	Base	VB-1	Johnsonite	Vinyl Base	<del>80 Fawn</del> <u>49 Beige</u>

## 8. MALE AND FEMALE TOILET ROOMS

Room No. and Name	Component	Material	Manufacturer	Finish	Color
H181a-1 MALE TLT	Countertop	HPDL-4	Wilsonart	Plastic Laminate	4841-60 Desert Zephyr
H184a-1 FEMALE TLT	Vertical Surface(s)	HPDL-4	Wilsonart	Plastic Laminate	4841-60 Desert Zephyr
	Base	CB-1	Crossville		VS51 Pietra Vecchia

## 9. NURSES STATION PUBLIC SIDE (TYPICAL)

Room No. and Name	Component	Material	Manufacturer	Finish	Color
TYPICAL	Countertop	SS-1	Corian	Solid Surface	Canvas
	Vertical Surface(s)	HPDL-9	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
	Trim				

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	Reveal (Refer to Section Details) AE930	HPDL-6	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
		HPDL-7	Wilsonart	Plastic Laminate	
		HPDL-8	Wilsonart	Plastic Laminate	
	Base	VB-1	Johnsonite	Vinyl Base	<del>80 Fawn</del> <u>49 Beige</u>

## 10. NURSES STATION STAFF SIDE (TYPICAL)

Room No. and Name	Component	Material	Manufacturer	Finish	Color
TYPICAL	Countertop	SS-1	Corian	Solid Surface	Canvas
	Vertical Surface(s)	HPDL-3	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
	Trim				
	Reveal				
	Base	VB-1	Johnsonite	Vinyl Base	<del>80 Fawn</del> <u>49 Beige</u>

## 11. PATIENT ROOM (TYPICAL)

Room No. and Name	Component	Material	Manufacturer	Finish	Color
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TYPICAL	Countertop	HPDL-11	Pionite	Plastic Laminate	Hidden Jewel AB281-Suede
	Vertical Surface(s)	HPDL-10	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
	Base	VB-1	Johnsonite	Vinyl Base	<del>29 Moon Rock</del> <u>48 Beige</u>

## 12. PATIENT TOILET ROOM (TYPICAL)

Room No. and Name	Component	Material	Manufacturer	Finish	Color
TYPICAL	Countertop & Apron	HPDL-4	Wilsonart	Plastic Laminate	4841-60 Desert Zephyr
	Base	CB-2	Crossville		Sand Box-A1101

## 13. M/P ROOM (TYPICAL)

Room No. and Name	Component	Material	Manufacturer	Finish	Color
M/P Room	Sink Countertop	SS-1	Corian	Solid Surface	Canvas (including Apron)

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	Vertical Surface(s)	HPDL-10	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
	<u>Sink</u>	<u>SS</u>	<u>Corian</u>	<u>Solid Surface</u>	<u>Glacier White</u>

## 14. GENERAL CASEWORK (UNLESS NOTED OTHERWISE)

Room No. and Name	Component	Material	Manufacturer	Finish	Color
GENERAL CASEWORK	Countertop	HPDL-4	Pionite	Plastic Laminate	Hidden Jewel AB 281 - 50606
	Vertical Surface(s)	HPDL-3	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
	Base	**MAY VARY, REFER TO ROOM FINISH SCHEDULE**			

## 15. PROCEDURE ROOM (CHEMICAL RESISTANT WORKSURFACE)

Room No. and Name	Component	Material	Manufacturer	Finish	Color
PROCEDURE J-165	Countertop	HPDL-12	Wilsonart	Chemsurf 390, Chemical Resistant Plastic Laminate	4841 Desert Zephyr
	Vertical Surface(s)	HPDL-3	Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry

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	Base	**REFER TO ROOM FINISH SCHEDULE**
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## B. TEXTURED MINERAL COMPOSITE WALL PANEL

Finish Code	Manufacturer	Mfg. Color Name/No.
TWP-1	Modular Arts, Inc.	Dune / See Finish Plan for paint color

## 2.4 DIVISION 7 - THERMAL AND MOISTURE PROTECTION

## A. ARCHITECTURAL METAL PANEL SYSTEM (07410)

Type	Shape	Ext. Finish	Int. Finish	Manufacturer	Mfg. Color Name/No.
MPF1	See Elevations	Aluminum	Aluminum	Alcan	Alabaster/A2001-D
MPF2	See Elevations	Aluminum	Aluminum	Alcan	Statuary Bronze/A2005-D
MPF3	See Elevations	Aluminum	Aluminum	Alcan	Castle Grey/A2004-D

## B. SBS Modified Bituminous Sheet Roofing (07526)

Color	Manufacturer	Mfg. Color Name/No.
Granular White	Siplast	Parabase Plus/P20HV/P30FR

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## C. ELASTOMERIC COATING (07572)

Color	Manufacturer	Mfg. Color Name/No.
Light Gray	DURALDECK	DURALDECK Light Gray

## D. FLASHING AND SHEET METAL (07600)

Item	Material	Finish
Copings	Aluminum	Kynar - match MPF1
Hanging Gutters and Downspouts	Aluminum	Kynar - match MPF1
Gravel Stops	Aluminum	Kynar - match MPF1
Scuppers	Aluminum	Kynar - match MPF1

## E. ROOF SPECIALTIES AND ACCESSORIES (07700)

Item	Material	Finish	Manufacturer	Manufacturer/Color Name/Number.
Roof Hatch	Aluminum	Paint	Bilco	White
Equipment Support	Galv. Steel	Galvanized		
Gravity Ventilators	Aluminum	Mill		
Grating Walkway	Galv Steel	Galvanized		
Copings	Stainless steel	Mill		
Gravel Stops and Fascia System	Stainless steel	Mill		

## 2.5 DIVISION 8 - DOORS AND WINDOWS

## A. STEEL DOORS AND FRAMES (08110)

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Paint both sides of door/frame same color, including ferrous metal louvers/hardware attached to door	
Component	Color of Paint Type and Gloss
Door	*Match adjacent wall / Level 5
Frame	<del>*Match adjacent wall</del> <u>Navajo White</u> / Level 5
Window frame	<del>*Match adjacent wall</del> <u>Navajo White</u> / Level 5

## B. INTERIOR WOOD DOORS (08210)

Component	Finish/Color
Doors	WD-1 / Red Oak w/Clear Finish
Frames	Hollow Metal / <del>*Match adjacent wall</del> <u>Navajo White</u> / Level 5

## C. AUTOMATIC ENTRANCE DOORS (08460)

Material	Finish	Manufacturer	Manufacturer Color Name/No.
Aluminum	Anodized Aluminum	Besam	Unislide OC-S
Glass	By Glass Type	-	-

1.0 SLIDING ALUMINUM ICU GLASS DOORS (08343) - Supplementary List SI#01; Dated 19 August 2008

Material	Finish	Manufacturer	Manufacturer Color Name/No.

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Aluminum	Anodized Aluminum	Besam	ICU/CCU Trackless
Glass	By Glass Type	-	-

2.0 SLIDING ALUMINUM M/P BATH DOORS (08321)- SI#02; Dated 12/03/2008

Material	Finish	Manufacturer	Manufacturer Color Name/No.
Aluminum	Anodized Aluminum	Besam	UNISLIDE OC-S
Panel		-	-

D. ALUMINUM ENTRANCES AND FRAMED WINDOWS (08410)

Type	Finish	Glazing	Manufacturer	Mfg. Color Name/No.
Fixed	Anodized	By Glass Type	EFCO	Series 810i and-CL1-CLR

E. ALUMINUM WINDOWS (08520)

Component	Material	Manufacturer	Mfg. Color Name/No.
Venetian Blinds	Integral blinds	Window Accessory Co. Inc.	Antique White

F. WINDOW SILLS

Room No. and Name	Material	Finish
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Typ. Interior Sill	SS-1	Corian-Solid Surface Color: Canvas
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## G. FINISH HARDWARE (08710)

Item	Material	Finish
Hinges	Stainless Steel	Brushed/Satin
Kick Mop Plates	WP-2 (Corridor Side Only)	Sanparrel Rigid Sheet Vinyl .060 Color: 0107 Pewter Gray
Door Pulls	Chrome	Brushed/Satin

## H. GLASS (08810)

Glazing Type	Manufacturer	Mfg. Color Name/No.
Clear	ACH	Clear Glass
Tint-1	ACH	Versalux Bronze R

## I. GLAZED ALUMINUM CURTAIN WALL (08920)

Component	Material	Finish	Manufacturer	Mfg. Color Name/No.
Frame	Aluminum	Anodized Aluminum	EFCO	Series 5600
Glazing	By Glass Type	By Glass Type	-	-

## 2.6 DIVISION 9 - FINISHES

## A. PORCELAIN CERAMIC TILE (09310)

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## 1. PORCELAIN CERAMIC TILE (PCT) -

Finish Code	Product Name	Size	Finish	Manufacturer	Mfg. Color Name/No.
PCT-1	Pompeii	12x12	Cross-Sheen UPS	Crossville	VS51 Pietra Vecchia
PCT-2	Color Blox	12x12	Cross-Sheen UPS	Crossville	Sea Otter-A1108
PCT-3	Color Blox	12x12	Cross-Sheen UPS	Crossville	Sidewalk Chalk-A1109
PCT-4	Color Blox	12x12	Cross-Sheen UPS	Crossville	Camping Out-A1115
PCT-5	Color Blox	12x12	Cross-Sheen UPS	Crossville	Mudpie-A1107
PCT-6	Color Blox	12x12	Cross-Sheen UPS	Crossville	Blue Suede Shoes-A1113
PCT-7	Color Blox	6x6	Cross-Sheen UPS	Crossville	Sand Box-A1101

## 2. PORCELAIN CERAMIC TILE BASE (CB) -

Finish Code	Product Name	Size	Finish	Manufacturer	Mfg. Color Name/No.
CB-1	Pompeii	4x12	Cross-Sheen UPS	Crossville	VS51 Pietra Vecchia
CB-2	<del>Color Blox</del> <u>Savoy (Cove Base)</u>	6x12	<del>Cross-Sheen UPS</del> <u>Glazed</u>	Crossville	<del>Sand Box-A1101</del> <u>Linen-VS131</u>

## B. CERAMIC TILE (09310)

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1. CERAMIC WALL TILE (CWT) -					
Finish Code	Product Name	Size	Finish	Manufacturer	Mfg. Color Name/No.
CWT-1	Savoy	6x6	Glazed	Crossville	Linen-VS131

## C. CERAMIC (PORCELAIN) TILE GROUT (09310)

1. CERAMIC (PORCELAIN) TILE GROUT (CTG) -				
Finish Code	Product Name	Reference Location	Manufacturer	Mfg. Color Name/No.
CTG-1	Grout	To be used with PCT-1-6 & CB-1	(Basis-of-Design) Custom Building Products	To be selected from manuf. full color line (BOD: #150 Earth)
<del>CTG-2</del>	<del>Grout</del>	<del>To be used with PCT-7 &amp; CB-2</del>	<del>(Basis-of-Design) Custom Building Products</del>	<del>To be selected from manuf. full color line (BOD: #382 Bone)</del>
CTG-3	Grout	To be used with CWT-1 & <u>CB-2</u>	(Basis-of-Design) Custom Building Products	To be selected from manuf. full color line (BOD: #333 Alabaster)

## D. ACOUSTICAL CEILINGS (09510)

Finish Code	Component	Color Pattern	Manufacturer	Mfg Name/No.
AT-1	24x24"	White	Armstrong	Fine Fissured 1732
AT-2	24x24"	White	Armstrong	Random Fissured 2908

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Trim	6" and 12"	White	Armstrong	Axiom 6" and 12"
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## E. METAL PANEL CEILINGS - SECURITY TYPE (09 5133)

Finish Code	Component	Color Pattern	Manufacturer	Mfg Name/No.
MP-1	24x24"	White	Gordon Grid	Lockdown

F. RESILIENT TILE FLOORING (~~09650~~ 09660)

Finish Code	Size	Material/Component	Manufacturer	Mfg Name/No.
VCT-1	12x12	Vinyl Composition Tile	Mannington <u>Armstrong</u>	Brushworks 707 Canvas <u>Standard Excelon</u> <u>51811 Antique White</u>
VCT-2	12x12	Vinyl Composition Tile	Mannington <u>Armstrong</u>	Essentials 135 Seaspray <u>Standard Excelon</u> <u>51802 Silver Green</u>
VCT-3	12x12	Vinyl Composition Tile	Mannington <u>Armstrong</u>	Essentials 123 Wheat <u>Standard Excelon</u> <u>51942 Curried</u> <u>Caramel</u>
VCT-4	12x12	Vinyl Composition Tile	Mannington <u>Armstrong</u>	Brushworks 717 Venetian Silk <u>Standard Excelon</u> <u>51910 Classic Black</u>
VCT-5	12x12	Vinyl Composition Tile	Mannington	Brushworks 729 Sepia
VCT-6	12x12	Vinyl Composition	Mannington	Brushworks 705

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		Tile		Viridian
VCT-7	12x12	Vinyl Composition Tile	Mannington	Brushworks 710 Naples Blue
VCT-8	12x12	Vinyl Composition Tile	Mannington	Brushworks 715 Baltic Green
VCT-9	12x12	Vinyl Composition Tile	Mannington	Brushworks 720 Prussian Blue
VCT-10	12x12	Vinyl Composition Tile	Mannington	Brushworks 706 Terracotta
VSF-1	6' Rolled	Vinyl Sheet Flooring	Mannington	Biospec 15133 Toasted Sesame
VPF-1	4"X36"	Vinyl Plank Flooring	Centiva	American Cherry WP-3305-E Surface: NG Edge: SE
VPF-2	4"X36"	Vinyl Plank Flooring	Centiva	Nutmeg Olivet WP-OL07-E Surface: TG Edge: SE

NOTE FOR VPF: EPOXY ADHESIVE REQUIRED AT ALL BED LOCATIONS. RUN PLANKS PARALLEL WITH LONG DIRECTION OF PATIENT ROOM, ALIGN ANTEROOMS WITH PLANK ORIENTATION IN PATIENT ROOM, AND FOLLOW HATCH ORIENTATION SHOWN ON FINISH PLANS.

G. URETHANE FLOOR COATING (09 6723)

Finish Code	Component	Color Pattern	Manufacturer	Mfg Name/No.
UFC	URETHANE FLOOR COATING	Mojave Beige 1/16" Flakes	Stonhard	Stontec UTF

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## H. RESILIENT BASE AND ACCESSORIES (09679)

Finish Code	Item	Height	Manufacturer	Mfg. Name / Color
Mat-1	Vinyl Transition Strip	N/A	Johnsonite	CTA-XX-K / <del>80 Fawn</del> <u>49 Beige</u>
Mat-2	Vinyl Transition Strip	N/A	Johnsonite	CTA-XX-K / <del>29 Moonreek</del> <u>49 Beige</u>
RST-1	Resilient Stair Tread (Rubber)	One Piece Tread & Riser	Johnsonite Roundel Rubber	RTR Raised Round/ <del>80 Fawn</del> <u>38 Pewter</u>
RT-1	Rubber Tile Flooring	24"x24"	Johnsonite Roundel Rubber	RT Raised Round Tile/ <del>80 Fawn</del> <u>38 Pewter</u>
VB-1	Vinyl Base	4"	Johnsonite	<del>80 Fawn</del> <u>49 Beige</u>
VB-2	Vinyl Base	4"	Johnsonite	<del>29 Moon Reek</del> <u>49 Beige</u>

## I. CARPET TILE (CPT) (09680)

Finish Code	Pattern	Manufacturer	Mfg. Color Name/No.
CPT-1	<i>Packaging</i> Radiance EW24, Style# 59361	Shaw	Natural Tonic 60755

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CPT-2	24 Square EW24, Style# 59490	Shaw	Old Fashioned 90400 (accent)
RM-1	Pedimat M1	C/S Group	Rail & Frame - Anodized Clear Mat Color - Sandstone 7304

## J. HIGH-BUILD GLASED COATING (SC) (09815)

Finish code	Manufacturer	Mfg. Color Name/No.
SC-1	Benjamin Moore	Navajo White

## K. PAINTING (09900)

1. MPI Gloss and Sheen Standards		Gloss @60	Sheen @85
Gloss Level 1	a traditional matte finish-flat	max 5 units, and	max 10 units
Gloss Level 2	a high side sheen flat-"a velvet-like" finish	max 10 units, and	10-35 units
Gloss Level 3	a traditional "egg-shell like" finish	10-25 units, and	10-35 units
Gloss Level 4	a "satin-like" finish	20-35 units, and	min. 35 units
Gloss Level 5	a traditional semi-gloss	35-70 units	
Gloss Level 6	a traditional gloss	70-85 units	
Gloss level 7	a high gloss	more than 85 units	

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2. Paint code	Gloss	Manufacturer	Mfg. Color Name / No.
P-1	Level 4	Benjamin Moore	Navajo White
<del>P-2</del>	<del>Level 4</del>	<del>Benjamin Moore</del>	<del>HC-46 Jackson Tan</del>
<del>P-3</del>	<del>Level 4</del>	<del>Benjamin Moore</del>	<del>2138-40 Carolina Gull</del>
<del>P-4</del>	<del>Level 4</del>	<del>Sherwin Williams</del>	<del>SW0032 Needlepoint Navy</del>
P-5	Level 4	Sherwin Williams	SW0007 Decorous Amber
P-6	Level 4	Benjamin Moore	HC-156 Van Deusen Blue
<del>P-7</del>	<del>Level 4</del>	<del>Sherwin Williams</del>	<del>SW6187 Rosemary</del>
P-8	Level 4	Sherwin Williams	SW6249 Storm Cloud
<del>P-9</del>	<del>Level 4</del>	<del>Benjamin Moore</del>	<del>HC-113 Louisburg Green</del>
P-10	Level 4	Benjamin Moore	HC-34 Wilmington Tan
P-11	Level 4	Benjamin Moore	2123-30 Sea Star
P-12 (GWB Ceilings)	Level 1	Sherwin Williams	SW7006 Extra White
P-13 (Int. Door/Win Frame)	Level 5	Benjamin Moore	Navajo White
<u>P-14 ( Stair Railings and Stair Stringer)</u>	<u>Level 5</u>	<u>Sherwin Williams</u>	<u>SW 7065 Argos</u>
C-EC (Epoxy Coating)	Floor Coating	Sherwin Williams	B62WZ111/ B60VZ70 Gray

## 2.7 DIVISION 10 - SPECIALITIES

### A. CUBICLE CURTAINS (10152)

Component	Material	Manufacturer	Mfg. Color Name/No.
Cubicle Curtain	CC-1	ArcCom	AC-32814 Adobe #5

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## B. SOLID SURFACE SHOWER SURROUND (10 2116)

Room No. and Name	Component	Material	Manufacturer	Product	Color
TYPICAL 5 <sup>th</sup> FLOOR WHL BATH	Wall Panel	SS-2	Stay-Care	Evolution Shower Surround	To Be Selected from full range of Spectrum or Solid color offerings
	Recessed Soap and Shampoo Holder	SS-2	Stay-Care	Evolution Solid Surface Accessories	

## C. WALL PROTECTION (10260)

Item	Material	Manufacturer	Mfg. Name / Color
Corner Guards	CG-1 .080 Rigid Vinyl Cover	IPC	160 / 0104 Antique White
Handrails	HR-1 .080 Rigid Vinyl Cover	IPC	800 / 0118 Khaki Brown
Wall Protection	WP-1 .060 Rigid Vinyl Sheet	IPC	Sanparrel /0104 Antique White
Crash Rails	CR-1 .080 Rigid Vinyl Cover	IPC	1400 / 0118 Khaki Brown
Wall Padding	MAT-3	Padded Surfaces, Inc.	TBD

## D. METAL LOCKERS (10505)

Component	Material	Manufacturer	Mfg. Color Name/No.
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Metal Locker	Metal	Penco	Champagne 073

## E. TOILET AND BATH ACCESSORIES (10800)

Item	Material	Manufacturer	Mfg. Color Name/No.
Toilet Partitions	Stainless Steel/Baked Enamel finish	TBD	Baked Enamel Color: TBD from manuf. standard color line
Urinal Screens	Stainless Steel/Baked Enamel finish	TBD	Baked Enamel Color: TBD from manuf. standard color line
24"x36" Mirror	Stainless Steel Frame		
1-1/4" Dia. Curtain Rod	Stainless Steel		
Folding Shower Seat	Stainless Steel		
Single Robe Hook	Stainless Steel		
18" Towel Bar	Stainless Steel		
1-1/2" Dia. 36" Grab Bar	Stainless Steel		
1-1/2" Dia. 42" Grab Bar	Stainless Steel		
Shower Base	Pre-Cast Terrazzo	Acorn	Palomino Tan

## 2.8 DIVISION 11 - EQUIPMENT

## A. PATIENT CARE MODULES (11420)

Component	Material	Manufacturer	Mfg. Color Name/No.
Counter	SS-1	Corian	Canvas
Vertical Surface	Plastic Laminate	WilsonArt	D30-60 Natural Almond

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## 2.10 DIVISION 14 - CONVEYING SYSTEMS

### A. ELECTRIC TRACTION ELEVATORS (14210)

Elevator	Component	Material	Finish	Color
Passenger Elevator No. P-11, P-12, P-13	Hoistway Entrance	Stainless Steel	Brushed	N/A
	Hoistway Doors	Stainless Steel	Brushed	N/A
	Corridor Position Indicator and Call Buttons	Stainless Steel	Brushed	N/A
	Car Canopy	Steel		N/A
	Car Wainscot	Stainless Steel	Brushed	N/A
	Panels Above Wainscot	HPDL-1 Wilsonart	Plastic Laminate	7919K - 78 Amber Cherry
	Car Floor	VPF-1	Vinyl Plank Flooring	American Cherry
	Car Operating Panel	Stainless Steel	Brushed	N/A

## 2.11 DIVISION 15 - MECHANICAL

### A. PLUMBING FIXTURES AND TRIM (15450)

Item	Color
Water Closet	White
Urinal	White
Lavatories	White

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## 2.12 DIVISION 16 - ELECTRICAL

## A. BUILDING LIGHTING INTERIOR (16510)

Fixture Type	Manufacturer/Mfg. Name/No.	Color/ Exterior Finish
Lobby/Reception Wall Sconce (Fluorescent)	Nessen/Cadence/NW329-F	Satin Chrome
Lobby/Reception Pendant (Fluorescent)	Visa Lighting/Shallow Bowl/CP3260 (OAH24)	BCB Brushed Chrome
Public Tlt. Rms. Wall Sconce (Fluorescent)	Eureka Lighting/Silene Double/3155B-SC- 2401E-JDJ-WH	Satin Chrome

## B. PATIENT WALL SYSTEMS (16685)

Component	Material	Finish	Manufacturer	Mfg. Color/Name
Face Panel		High Pressure Laminate Wilsonart	Wilsonart	7919K - 78 Amber Cherry *SEE SHOP DRAWINGS* Additional colors: Antique White and Hidden Jewel AB281
Door/Drawer Face		High Pressure Laminate Wilsonart	Wilsonart	7919K - 78 Amber Cherry

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## PART III EXECUTION

## 3.1 FINISH SCHEDULES &amp; MISCELLANEOUS ABBREVIATIONS

FINISH SCHEDULE & MISCELLANEOUS ABBREVIATIONS	
Term	Abbreviation
Access Flooring	AF
Accordion Folding Partition	AFP
Acoustical Ceiling	AT
Acoustical Ceiling, Special Faced	AT (SP)
Acoustical Metal Pan Ceiling	AMP
Acoustical Wall Panel	AWP
Acoustical Wall Treatment	AWT
Acoustical Wallcovering	AWF
Anodized Aluminum Colored	AAC
Anodized Aluminum Natural Finish	AA
Baked On Enamel	BE
Brick Face	BR
Brick Flooring	BF
Brick Paving	BP

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Carpet	CP
Carpet Athletic Flooring	CAF
Carpet Module Tile	CPT
Ceramic Glazed Facing Brick	CGFB
Ceramic Tile	CT
Ceramic Tile Grout	CTG
Ceramic Wall Tile	CWT
Concrete	C
Concrete Masonry Unit	CMU
Corner Guard	CG
Crash Rail	CR
Cubicle Curtain	CC
Divider Strips Marble	DS MB
Epoxy Coating	EC
Epoxy Resin Flooring	ERF
Expansion Joint Cover	EJC
Existing/Match Existing	EXT
Exposed Divider Strips	EXP
Exterior	EXT
Exterior Finish System	EFS
Exterior Paint	EXT-P
Exterior Stain	EXT-ST
Fabric Wallcovering	WF
Facing Tile	SCT

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Feature Strips	FS
Floor Mats & Frames	FM
Floor Tile, Mosaic	FT
Folding Panel Partition	FP
Foot Grille	FG
Glass Masonry Unit	GUMU
Glazed Face CMU	GCMU
Glazed Structural Facing Tile	SFTU
Gypsum Wallboard	GWB
Hand Rail	HR
High Glazed Coating	SC
Latex Mastic Flooring	LM
Linear Metal Ceiling	LMC
Linear Wood Ceiling	LWC
Marble	MB
Material	MAT
Mortar	M
Multi-Color Coating	MC
Natural Finish	NF
Paint	P
Paver Tile	PVT
Perforated Metal Facing (Tile or Panels)	PMF
Plaster	PL

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Plaster High Strength	HSPL
Plaster Keene Cement	KC
Plastic Laminate	HPDL
Polypropylene Fabric Wallcovering	PFW
Porcelain Ceramic Tile	PCT
Porcelain Mosaic Tile	FTCT
Porcelain Ceramic Base	CB
Quarry Tile	QT
Radiant Ceiling Panel System	RCP
Recessed Mat	RM
Resilient Stair Tread	RST
Rubber Base	RB
Rubber Tile Flooring	RT
Spandrel Glass	SLG
Solid Surface	SS
Stain	ST
Stone Flooring	SF
Structural Clay	SC
Suspension Decorative Grids	SDG
Terrazzo Portland Cement	PCT
Terrazzo Tile	TT
Terrazzo, Thin Set	TST

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Textured Gypsum Ceiling Panel	TGC
Textured Metal Ceiling Panel	TMC
Textured Mineral Composite Wall Panel	TWP
Urethane Floor Coating	UFC
Veneer Plaster	VP
Vinyl Base	VB
Vinyl Coated Fabric Wallcovering	W
Vinyl Composition Tile	VCT
Vinyl Plank Flooring	VPF
Vinyl Sheet Flooring	VSF
Vinyl Sheet Flooring (Welded Seams)	WSF
Wall Border	WB
Wall Protection	WP
Wood	WD

### 3.2 FINISH SCHEDULE SYMBOLS

Symbol Definition

- No color required

TBD = To be determined

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## 3.3 LUMINAIRE SCHEDULE

LUMINAIRE SCHEDULE			
Reference No.	Manufacturer	Fixture Name	Manufacturer's Product No.
B1	Prescolite	Architektur	1212-120V-ST962
B2	Nessen Lighting	Cadence	NW329-F-277V
B3	Visa Lighting	Shallow Bowl	CP3250-8TF26-277V
B4	Lithonia	Quantum	LQM-P-W-1-R-120/277-SW09
C1	Eureka	Silene Classic	3155B-2431E-JDJ-S C-WH
C2	Prescolite	Architektur	CFT632EB-277V-STF602-WW
C3	Prescolite	Architektur	CFT832EB-277V-STF802
C4	Prescolite	Architektur	CFQ826EB-277V-STF802
C5	Pass & Seymour	TradeMaster	TMHWL-LOUVCC-SS771
C6	Prescolite	Architektur	CFT832EB-277V-HDM-STF802
C7	Kirlin		RR00653 - RV01054 -13
E1	Lithonia	Z	Z1275N-H0812-SDA
E2	Lithonia	Quantum	ELM2 SD H
F1	Columbia	ST8	ST822-232U6G-FSA19-EB8UNV-PAF
F2	Kenall	Mighty Mac	RGD4-2/2-432-PB2-277-1/9-1WL
F3	Columbia	ST8	ST824-232G-FSIMA-EB8UNV-PAF
F4	Columbia	ST8	ST824-332G-FSA19-3EB8UNV-PAF
F5	Columbia	ST8	ST824-432G-FSA19-4EB8UNV-PAF
F6	Columbia	ST8	ST824-332F-FSA19-EB8D-1%-UNV-PAF
F7	Columbia	P4D	P4D24-332G-LD36-S-EB8UNV-PAF
F8	Columbia	P4D	P4D24-432G-LD36-S-EB8UNV-PAF
F9	Lithonia	VRT	2VRT-F-232-VL-MVOLT-GEB10IS
F9A	Lithonia	VRT	2VRT-F-332-VL-MVOLT-GEB10IS
F10	Kenall	Mighty Mac	RGD4-2/2-232-DE1-277-1/9-1WL
F11	Lithonia	VRT	2VRT-F-432-VL-MVOLT-GEB10IS
F12	Columbia	WAL	WAL2-2UD17-EB8UNV-GLR

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F13	Columbia	WAL	WAL4-2UD32-EB8UNV-GLR
F14	Columbia	KL	KL4-232-EB8277-KLWG4-GLR
F15	Columbia	KL	KL8-232-EB8277-KLWG4-GLR
F16	Columbia	ST8	ST824-332F-FSIMA-EB8D-1%-UNV-PAF
F17	Alkco	Lincs	LINCS100FS23
F18	Alkco	Lincs	LINCS100FS35
F19	Alkco	Lincs	LINCS100FS46
F20	Lithonia	WRT	2WRT-F-432-A15-MVOLT-GEB10IS-TP4
F21	Columbia	ST8	ST824-432F-FSA19-EB8UNV-PAF
F22	Columbia	ST8	ST824-232F-FSA19-EB8UNV-PAF
F22A	Locklite	LDGR	LDGR-2-0/0-232-RS-1-277-1/9-1
F23	Hill-Rom	Integriss	P696IL-32W/48T8/RS
F24	Lithonia	WRT	2WRT-G-432-A19MVOLT-GEB10IS
F25	Lithonia	WRT	2WRT-G-232-A19MVOLT-GEB10IS
F26	Lithonia	WRT	2WRT-G-2U31-A19MVOLT-GEB10IS
F27	Lithonia	WRT	2WRT-F-232-A19MVOLT-GEB10IS-TP4
F28	Lithonia	WRT	2WRT-F-2U31-A19MVOLT-GEB10IS
F29	Columbia	SAM	SAM4-232-EB8-277-GLR-PAF
F30	Insight	EX-5	EX5/SMS/TA/T5H0/24/2/277/PC
F31	Lithonia	WRT	2WRT-G-4CF40-A19-MVOLT-GEB10IS
H1	Match Existing		
H2	Kim Lighting	Wall Forms	KN-WF21P-42DB
H4	Gotham	LGF	LFG 1/42TRT 8RW T73 277 GSKT
H5	Gotham	LGF	LFG 2/42TRT 8RW T73 277 GSKT
L1	Kim	VL	1A/VLA17W3/175MH277/WH-P/PRA30-6250A/PS-P-DR-GFI
L2	Kim	VL	2B/VLA17W3/175MH277/WH-P/PRA30-6250B/PS-P-DR-GFI
L3	KIM	CFL	CFL6-50PMH277-WH-P-FS-CFL
P1	Hubbell	Vaportite	NVQC
X1	Lithonia	Quantum	LQMSW1R-120/277
X2	Lithonia	Quantum	LQMSW2R-120/277
X3	Morlite	Med. Security	VRE-LED-SF-CM-F1-RW-277
X4	Morlite	Med. Security	VRE-LED-DF-CM-F1-RW-277
X5	Lithonia	Extreme	LV-S-W-1-R-120/277-UM-4X

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Z1	Nulite	PL and Biax Strip	NS-1BX40-HPF-277
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### 3.4 ROOM FINISH SCHEDULE

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**SECTION 09 67 23.20**  
**RESINOUS(EPOXY BASE) WITH VINYL CHIP BROADCAST (RES-2)**

07-01-14

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. This section specifies Resinous (Resinous epoxy base with vinyl chip flake broadcast) flooring with integral cove base:
1. Res-2 Resinous (epoxy) vinyl chip flake broadcast flooring system.  
Note: One room/shower will be selected by the VA for mock-up purposes. The VA will approve this mock-up prior to allowing work to continue on the remaining showers.

**1.2 RELATED WORK**

- A. Substrate Preparation for Floor Finishes: Section 09 05 16.
- B. Color and location of each type of resinous flooring: As indicated in Section 09 06 00, SCHEDULE FOR FINISHES.
- C. Floor Drains: Division 22, PLUMBING.

**1.3 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
1. Description of each product to be provided.
  2. Application and installation instructions.
  3. Maintenance Instructions: Submit manufacturer's written instructions for recommended maintenance practices.
- C. Qualification Data: For Installer.
- D. Sustainable Submittal:
1. Product data for products having recycled content, submit documentation indicating percentages by weight of post-consumer and pre-consumer recycled content.
    - a. Include statements indicating costs for each product having recycled content.
  2. Product data for field applied, interior, paints, coatings, and primers, include printed statement of VOC content indicating compliance with environmental requirements.
- E. Samples:
1. Each color and texture specified in Section 09 06 00, SCHEDULE FOR FINISHES.

2. Samples for verification: For each (color and texture) resinous flooring system required, 6 inches (152 mm)square, applied to a rigid backing by installer for this project.
  3. Sample showing construction from substrate to finish surface in thickness specified and color and texture of finished surfaces. Finished flooring must match the approved samples in color and texture.
- F. Shop Drawings: Include plans, sections, component details, and attachment to other trades. Indicate layout of the following:
1. Patterns.
  2. Edge configurations.
- G. Certifications and Approvals:
1. Manufacturer's certification of material and substrate compliance with specification.
  2. Manufacturer's approval of installer.
  3. Contractor's certificate of compliance with Quality Assurance requirements.
- H. Warranty: As specified in this section.

#### **1.4 QUALITY ASSURANCE**

- A. Manufacture Certificate: Manufacture shall certify that a particular resinous flooring system has been manufactured and in use for a minimum of five (5) years.
- B. Installer Qualifications: Engage an experienced installer (applicator) who is experienced in applying resinous flooring systems similar in material, design, and extent to those indicated for this project for a minimum period of five (5) years, whose work has resulted in applications with a record of successful in-service performance, and who is acceptable to resinous flooring manufacturer.
1. Engage an installer who is certified in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.
  2. Contractor shall have completed at least ten(10) projects of similar size and complexity. Include list of at least five (5) projects. List must include owner (purchaser); address of installation, contact information at installation project site; and date of installation.
  3. Installer's Personnel: Employ persons trained for application of specified product.

## C. Source Limitations:

1. Obtain primary resinous flooring materials including primers, resins, hardening agents, grouting coats and finish or sealing coats from a single manufacturer.
2. Provide secondary materials, including patching and fill material, joint sealant, and repair material of type and from source recommended by manufacturer of primary materials.
3. Sign off from VA Resident Engineer on texture for slip resistance and clean ability must be complete before installation of flooring system.

## D. Pre-Installation Conference:

1. Convene a meeting not less than thirty days prior to starting work.
2. Attendance:
  - a. Contractor
  - b. VA Resident Engineer
  - c. Manufacturer and Installer's Representative
3. Review the following:
  - a. Environmental requirements
    - 1) Air and surface temperature
    - 2) Relative humidity
    - 3) Ventilation
    - 4) Dust and contaminants
  - b. Protection of surfaces not scheduled to be coated
  - c. Inspect and discuss condition of substrate and other preparatory work performed
  - d. Review and verify availability of material; installer's personnel, equipment needed
  - e. Design and edge conditions.
  - f. Performance of the coating with chemicals anticipated in the area receiving the resinous (urethane and epoxy mortar/cement) flooring system
  - g. Application and repair
  - h. Field quality control
  - i. Cleaning
  - j. Protection of coating systems
  - k. One-year inspection and maintenance
  - l. Coordination with other work

- E. Manufacturer's Field Services: Manufacturer's representative shall provide technical assistance and guidance for surface preparation and application of resinous flooring systems.
- F. Contractor Job Site Log: Contractor shall document daily; the work accomplished environmental conditions and any other condition event significant to the long term performance of the urethane and epoxy mortar/cement flooring materials installation. The Contractor shall maintain these records for one year after Substantial Completion.

#### **1.5 MATERIAL PACKAGING DELIVERY AND STORAGE**

- A. Deliver materials to the site in original sealed packages or containers, clearly marked with the manufacturer's name or brand, type and color, production run number and date of manufacture.
- B. Protect materials from damage and contamination in storage or delivery, including moisture, heat, cold, direct sunlight, etc.
- C. Maintain temperature of storage area between 60 and 80degreesF (15 and 26 degrees C).
- D. Keep containers sealed until ready for use.
- E. Do not use materials beyond manufacturer's shelf life limits.
- F. Package materials in factory pre-weighed and in single, easy to manage batches sized for ease of handling and mixing proportions from entire package or packages. No On site weighing or volumetric measurements are allowed.

#### **1.6 PROJECT CONDITIONS**

- A. Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous flooring application.
  - 1. Maintain material and substrate temperature between 65 and 85 degrees F (18 and 30 degrees C) during resinous flooring application and for not less than 24 hours after application.
  - 2. Concrete substrate shall be properly cured per referenced section 03 30 00, CAST-IN-PLACE CONCRETE. Standard cure time a minimum of 30 days. A vapor barrier must be present for concrete subfloors on or below grade.
    - a. Resinous flooring applications where moisture testing resulting in readings exceeding limits as defined in this specification under part 3, section 3.4, paragraph B, shall employ an multiple

component 15 mil thick system designed to suppress excess moisture in concrete.

- b. Application at a minimum thickness of 15 mils, over properly prepared concrete substrate as defined in section 3.4.
- c. Moisture suppression system must meet the design standards as follows:

Property	Test	Value
Tensile Strength	ASTM D638	4,400 psi
Volatile Organic Compound Limits (V.O.C.)	EPA & LEED	25 grams per liter
Permeance	ASTM E96 @ 16mils/ 0.4mm on concrete	0.1 perms
Tensile Modulus	ASTM D638	1.9X10 <sup>5</sup> psi
Percent Elongation	ASTM D638	12%
Cure Rate	Per manufactures Data	4 hours Tack free with 24hr recoat window
Bond Strength	ASTM D7234	100% bond to concrete failure

- B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.
- C. Close spaces to traffic during resinous flooring application and for not less than 24 hours after application, unless manufacturer recommends a longer period.

#### 1.7 WARRANTY

- A. Work subject to the terms of the Article "Warranty of Construction" FAR clause 52.246-21.
- B. Warranty: Manufacture shall furnish a single, written warranty covering the full assembly (including substrata) for both material and workmanship for a extended period of three (3) full years from date of installation, or provide a joint and several warranty signed on a single document by manufacturer and applicator jointly and severally warranting the materials and workmanship for a period of three (3) full years from date of installation. A sample warranty letter must be included with bid package or bid may be disqualified.

## 1.8 APPLICABLE PUBLICATIONS

- A. The publication listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. ASTM Standard C722-04 (2012), "Standard Specification for Chemical-Resistant Monolithic Floor Surfacing," ASTM International, West Conshohocken, PA, 2006, DOI: 10.1520/C0722-04R12, [www.astm.org](http://www.astm.org).
1. Specification covers the requirements for aggregate-filled, resin-based, monolithic surfacings for use over concrete.
- C. American Society for Testing and Materials (ASTM):
- C413 (2012).....Absorption of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes
- C531 (2012).....Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes
- D638 (2010).....Tensile Properties of Plastics
- D790 (2010).....Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
- D1308 (2013).....Effect of Household Chemicals on Clear and Pigmented Organic Finishes
- D2240 (2010).....Rubber Property–Durometer Hardness
- D4060(2010).....Abrasion Resistance of Organic Coatings by the Taber Abraser
- D4226 (2011).....Impact Resistance of Rigid (Poly-Vinyl Chloride) (PVC) Building Products
- D4259 (2012).....Abrading Concrete to alter the surface profile of the concrete and to remove foreign materials and weak surface laitance
- C7234 (2012).....Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers
- E96/E96M (2013).....Water Vapor Transmission of Materials
- F1679.....Variable Incidence Tribometer for determining the slip resistance

F1869 (2011).....Measuring Moisture Vapor Emission Rate of  
Concrete Subfloor Using Anhydrous Calcium  
Chloride

F2170 (2011).....Determining Relative Humidity in Concrete Floor  
Slabs Using in situ Probes

## **PART 2 - PRODUCTS**

### **2.1 SYSTEM DESCRIPTION FOR RES-2 (BROADCAST VINYL CHIP FLAKE)**

#### A. System Descriptions:

1. Monolithic, multi-component epoxy chemistry resinous flooring system. Trowel applied mortar fill, primer with broadcast quartz aggregates, High performance multi-component solvent free epoxy undercoat, Vinyl chip flake broadcast media in desired flake size (1/8", 1/4"). High performance multi component epoxy and solvent free sealers.

B. Products: Subject to compliance with applicable fire, health, environmental, and safety requirements for storage, handling, installation, and clean up.

C. System Components: Verify specific requirements as systems vary by manufacturer. Verify build up layers of broadcast and installation method. Verify compatibility with substrate. Use manufacturer's standard components, compatible with each other and as follows:

#### 1. Primer with Broadcast quartz (primer coat):

- a. Resin: epoxy.
- b. Formulation Description: Multiple component high solids.
- c. Application Method: squeegee, back roll and broadcast.
- d. Thickness of coat(s): 2-3mil.
- e. Number of Coats: One.
- f. Aggregates: Quartz broadcast into wet epoxy primer.

#### 2. Undercoat: (body coat)

- a. Resin: Epoxy.
- b. Formulation Description: Pigmented multi-component, high solids.
- c. Application Method: Notched squeegee and Back roll
- d. Number of Coats: One.
- e. Aggregates: vinyl chip flake broadcast into wet Undercoat.
- f. Thickness of coat(s): 20-30mil.
- g. Number of Coats: One.

#### 3. Sealer coat:

- a. Resin: Epoxy.

- b. Formulation Description: Multiple component high solids, no solvent UV stable.
- c. Type/Finsh: Clear Gloss.
- d. Thickness of coat(s): 2-3mil.
- e. Number of Coats: (2) two.
- f. Application: Squeegee and finish roll.
- D. System Characteristics:
1. Color and Pattern: As selected by Resident Engineer from manufacturer's standard colors.
  2. Integral cove base: 1 inch (25.4 mm) radius epoxy mortar cove keyed into concrete substrate and or resinous flooring mortar system. No fillers integral cove base must be troweled in place with specified resinous mortar base.
  3. Overall System Thickness: Nominal 2 to 3 mm on trowel applied mortar fill for sloping conditions.
  4. Finish: anti-slip resistant.
  5. Temperature Range: Systems vary by manufacturer; approximate range from a minimum of 45 to 150 degrees F.
- E. Physical Properties:
1. Physical Properties of flooring system when tested as follows:

Property	Test	Value
Tensile Strength	ASTM D638	5,200 psi
Volatile Organic Compound Limits (V.O.C.)	EPA & LEED	Below 100 g/l
Flexural Strength	ASTM D790	4,000 psi
Water Absorption	ASTM C413	0.056%
Coefficient of friction dry/slip index wet	ASTM F1679	>.79 dry >.65 wet
Impact Resistance	ASTM D4226	> 160 in. lbs
Abrasion Resistance	ASTM D4060 CS-17	0.03 gm maximum weight loss
Thermal Coefficient of Linear Expansion	ASTM C531	17 x 10 <sup>-6</sup> in/in °F
Hardness Shore D	ASTM D2240	85 to 90
Bond Strength	ASTM D7234	100% bond to concrete failure

F. Chemical Resistance in accordance ASTM D1308 - 02(2007) "Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes". ASTM International, West Conshohocken, PA, 2006, DOI: 10.1520/D1308-02R07, www.astm.org. No effect to the following exposures:

1. Acetic acid (5%)
2. Ammonium hydroxide (10%)
3. Citric Acid (50%)
4. Fatty Acid
5. Motor Oil, 20W
6. Hydrochloric acid (20%)
7. Sodium Chloride
8. Sodium Hypochlorite (10%)
9. Sodium Hydroxide (30%)
10. Sulfuric acid (25%)
11. Urine, Feces
12. Hydrogen peroxide (10%)

## **2.2 SUPPLEMENTAL MATERIALS**

- A. Textured Top Coat: Type recommended or produced by manufacturer of seamless resinous flooring system, slip resistance type and profile for desired final finish.
- B. Joint Sealant: Type recommended or produced by resinous flooring manufacturer for type of service or joint conditioned indicated.
- C. Waterproof Membrane: Type recommended or produced by manufacturer of resinous floor coatings for type of service and conditions as and/or specified.
- D. Crack Isolation Membrane: Type recommended or produced by manufacturer of resinous flooring for conditions as and/or specified.
- E. Anti-Microbial Additive: Incorporate anti-microbial chemical additive to prevent growth of most bacteria, algae, fungi, mold, mildew, yeast, etc.
- F. Patching and Fill Material: Resinous product of or approved by resinous coating manufacturer for slope application indicated. Resinous based materials only.

## **2.3 BASE CAP STRIP**

- A. Zinc cove strip.
- B. Shape for 2mm depth of base material, "J" or "L" configuration.
- C. Finish:

1. Finish exposed surfaces in accordance with NAAMM Metal Finishes Manual.

### **PART 3 - EXECUTION**

#### **3.1 INSPECTION**

- A. Examine the areas and conditions where monolithic resinous system with integral base is to be installed with the VA Resident Engineer.
- B. Moisture Vapor Emission Testing: Perform moisture vapor transmission testing in accordance with ASTM F1869 to determine the MVER of the substrate prior to commencement of the work. See section 3.4, 3.

#### **3.2 PROJECT CONDITIONS**

- A. Maintain temperature of rooms (air and surface) where work occurs, between 70 and 90degreesF (21 and 32degrees C) for at least 48 hours, before, during, and 24 hours after installation. Maintain temperature at least 70degrees F (21degrees C) during cure period.
- B. Maintain relative humidity less than 75 percent.
- C. Do not install materials until building is permanently enclosed and wet construction is complete, dry, and cured.
- D. Maintain proper ventilation of the area during application and curing time period.
  1. Comply with infection control measures of the VA Medical Center.

#### **3.3 INSTALLATION REQUIREMENTS**

- A. The manufacturer's instructions for application and installation shall be reviewed with the VA Resident Engineer for the seamless resinous (urethane and epoxy mortar) flooring system with integral cove base and trench liner.
- B. Substrate shall be approved by manufacture technical representative.

#### **3.4 PREPARATION**

- A. General: Prepare and clean substrates according to resinous flooring manufacturer's written instructions for substrate indicated. Provide clean, dry, and neutral Ph substrate for resinous flooring application.
- B. Concrete Substrates: Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with resinous flooring.
  1. Prepare concrete substrates as follows:
    - a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.

- b. Comply with ASTM D4259 requirements, unless manufacturer's written instructions are more stringent.
  2. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written recommendations.
  3. Verify that concrete substrates are dry.
    - a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with application only after substrates have maximum moisture-vapor-emission rate of [3lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours. Per manufacturers recommendations.
    - b. MVT threshold for monolithic resinous flooring shall not exceed 3lbs/1000 square feet (0.0001437 kPa) in a 24 hour period.
    - c. When MVT emission exceeds this limit, apply manufacturer's recommended vapor control primer or other corrective measures as recommended by manufacturer prior to application of flooring or membrane systems.
    - d. Perform in situ probe test, ASTM F2170. Proceed with application only after substrates do not exceed a maximum potential equilibrium relative humidity of 85 percent.
    - e. Provide a written report showing test placement and results.
  4. Verify that concrete substrates have neutral Ph and that resinous flooring will adhere to them. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.
- C. Resinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's written instructions.
- D. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.
- E. Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's written recommendations. Allowances should be included for flooring manufacturer recommended joint fill material, and concrete crack treatment.
- F. Prepare wall to receive integral cove base:
  1. Verify wall material is acceptable for resinous flooring application, if not, install material (e.g. cement board) to receive base.

2. Fill voids in wall surface to receive base, install undercoats (e.g. water proofing membrane, and/or crack isolation membrane) as recommended by resinous flooring manufacturer.
3. Install base prior to flooring if required by resinous flooring manufacturer.
4. Grind, cut or sand protrusions to receive base application.

### 3.5 APPLICATION

- A. General: Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.
  1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion.
  2. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.
- B. Apply Primer: over prepared substrate at manufacturer's recommended spreading rate for all areas to receive integrated cove base.
- C. Apply cove base: Trowel to wall surfaces at a 1 inch radius, before applying flooring. Apply according to manufacturer's written instructions and details including those for taping, mixing, priming, and troweling, sanding, and top coating of cove base. Round internal and external corners.
- D. Apply Primer: over prepared substrate at manufacturer's recommended spreading rate.
- E. Trowel mortar base: Mix mortar material according to manufacturer's recommended procedures. Climatic and non-climatic resinous flooring systems may vary slightly on mode of application. Application should be based upon the following: Spread mortar over substrate to achieve slopes in shower rooms. Metal trowel (hand) single mortar coat in thickness indicated for flooring system, grout to fill substrate voids. When cured, sand to remove trowel marks and roughness.
- F. Broadcast: Immediately broadcast quartz silica aggregate into the primer using manufacturer's spray caster. Strict adherence to manufacturer's installation procedures and coverage rates is imperative.
- G. UnderCoat: Mix base material according to manufacturer's recommended procedures. Uniformly spread mixed material over previously primed

substrate using manufacturer's installation tool. Roll material with strict adherence to manufacturer's installation procedures and coverage rates.

- H. Broadcast: Immediately broadcast vinyl flakes into the body coat. Strict adherence to manufacturer's installation procedures and coverage rates is imperative.
- I. First Sealer: Remove excess un-bonded flakes by lightly brushing and vacuuming the floor surface. Mix and apply sealer with strict adherence to manufacturer's installation procedures.
- J. Second Sealer: Lightly sand first sealer coat. Mix and apply second sealer coat with strict adherence to manufacturer's installation procedures.

### **3.6 TOLERANCE**

- A. From radius of cove: Maximum of 1/8 inch (3.18 mm) plus or 1/16-inch (1.59 mm) minus.

### **3.7 ENGINEERING DETAILS**

- A. Chase edges to "lock" the flooring system into the concrete substrate along lines of termination.
- B. Penetration Treatment: Lap and seal resinous system onto the perimeter of the penetrating item by bridging over compatible elastomer at the interface to compensate for possible movement.
- C. Treat floor drains by chasing the flooring system to lock in place at point of termination.
- D. Treat control joints to bridge potential cracks and to maintain monolithic protection. Treat cold joints and construction joints to bridge potential cracks and to maintain monolithic protection on horizontal and vertical surfaces as well as horizontal and vertical interfaces.
- E. Discontinue Resinous floor system at vertical and horizontal contraction and expansion joints by installing backer rod and compatible sealant after coating installation is completed. Provide sealant type recommended by manufacturer for traffic conditions and chemical exposures to be encountered.

### **3.8 CURING, PROTECTION AND CLEANING**

- A. Cure resinous flooring materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of application and prior to completion of curing process.
- B. Close area of application for a minimum of 24 hours.

- C. Protect resinous flooring materials from damage and wear during construction operation.
  - 1. Cover flooring with kraft type paper.
  - 2. Optional 6 mm (1/4 inch) thick hardboard, plywood, or particle board where area is in foot or vehicle traffic pattern, rolling or fixed scaffolding and overhead work occurs.
- D. Remove temporary covering and clean resinous flooring just prior to final inspection. Use cleaning materials and procedures recommended by resinous flooring manufacturer.

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## RFI Package No. 3 - Revised 12/4/2015

#	Comment / Observation	Response	Made by
1	Spec. 05-50-00, Fact 2- Products; 2.2 Materials; list structural steel, stainless steel, aluminum extruded and galvanized steel pipe (ASTM A53); Galvanized for exterior locations, Type S, Grade A (unless specified otherwise).	Galvanized pipe railings to be used for exterior locations unless otherwise noted.	TG
2	Section 2.6 Railings; C. Steel pipe railings states fabricate of steel pipe with welded joints but does not mention galvanization.	Galvanized pipe railings to be used.	TG
3	Please confirm that all exterior handrails will be constructed of steel pipe (ASTM A53); galvanized, Type S, Grade A.	Exterior handrails are to be constructed as per project specifications.	DWM
4	Spec. 05 50 00; 2.6 Railings; C. Steel Pipe Railings; Item 3 limits the space post railings to six feet. This contradicts information shown on A-100, Detail 6, 5.	Follow drawings on Sheet A-100.	TG
5	Dwg. A100; the new railing for the mechanical differs from what is shown on M-200 (and scales differently)	a. Which one is correct? <b>Both items are correct. A100 shows parapet guardrails; M200 shows cooling tower guardrails.</b> b. Can you show dimensions? <b>Dimensions are not necessary. Please refer to M200 – space cooling tower guardrails at max 6 feet apart.</b>	TG & DWM
6	Dwg. A100; Plan 1; Elevations 4 and 6; establish a handrail height above the roof top.	a. Can you provide a handrail height measured from the top of the parapet? <b>Code requires the guardrail to be 42" above the roof – contractor to establish the highest point at perimeter of roof and set top of guardrail 42" above that height.</b> b. If (above) is not known, what is the dimensions from the roof top to the top of the parapet wall (not the coping). <b>Existing conditions vary due to type of construction utilized for roof. Field verification is required to ensure code requirements are met.</b> c. What are the dimensions of the coping sections, thickness, width and length of typical section? <b>The existing conditions are unknown. Destructive investigation was not performed in the development of Construction Documents.</b>	TG & DWM
7	A100; what is the appropriate distance from ground to the existing parapet or roof?	The guardrail is to be 42" above the roof – contractor to establish the highest point at perimeter of roof and set top of guardrail 42" above that height.	DWM
8	A100, Det. 7; what is the dimensions from the centerline of the pipe railing to the exterior edge of the coping?	6 inches.	TG
9	What is the overall width of the parapet?	As-builts indicate 16", however, existing conditions vary due to type of construction utilized for roof. Contractor to verify.	TG & DWM
10	Det. 6; There is a continuous flashing cap extending from the entrance of the parapet to the interior of the parapet; between the coping and the parapet. This flashing will be penetrated at least 32 times with most of the penetration being about 5" x 12" disrupting its continuity. Can you please provide a flashing detail that addresses this problem?	Contractor to provide a sheet metal flat cap flashing to sufficiently cover the penetration area. Adhere with roof cement/mastic; place new cap on top of existing flashing.	TG
11	Det. 7, A100; Shows the parapet coping cut on the centerline of the new pipe railing. Since the vertical section of handrails are 3" apart; you would end up with a section of coping just 5 1/2" long between each rail section. Can you provide a detail showing how to secure that?	Secure per requirements of submitted anchorage system – As builts did not show existing anchorage system.	TG & DWM
12	Det.7, A100; what is the length of the 4 1/2" diameter center-sunk screws?	Penetrate 3 1/2".	TG
13	M201, Det. 1; how tall is the access ladder at the cooling tower handrail? How wide is it?	Contractor to verify height needed to top of new guardrail. Width min. 24"	TG
14	M201, Det. 2; what is the diameter of the handrail pipe?	<b>Use same dimensions as Sheet A100</b> a. What is the diameter length of the base bolts? <b>Since the metal dimensions of the existing cooling tower are unknown, contractor to provide appropriate bolts as required.</b> b. What are the dimensions of the base collar plate? <b>Use same dimensions as Sheet A100</b>	TG
15	Will we be allowed to have a staging area?	Staging/storage areas on the VA property are limited and would be evaluated at time of NTP. At this time, no space is available for significant staging/storage.	DWM
16	Plan 1/A911; there is no demolition plan for this sidewalk. Please confirm that the existing sidewalk will remain and the footing will be cut into the slab similar to Det. 3/A-201B	Sheet A210B Detail 3, Demo Plan shows extent of demolition to existing sidewalks and footings cut into existing sidewalks.	TG

17	Elev. 2/A911; this elevation does not match the floor plan, please correct or clarify.	Elevation matches floor plan. New 1'-7" sidewalk is poured adjacent to existing sidewalk.	TG
18	Elev. 2/A210B; Shows a new 3070 door. Is there an existing window at the location of the new door?	<b>There is no window at the location of the new door.</b> a. What is the wall finish on the conference/break room side of the wall? <b>As-builts indicate GWB on metal studs.</b>	TG
19	Elev. 1/A220; what is the wall construction where we are enlarging the existing door opening to 46" (for a 42" wide door)?	As-builts indicate a metal stud/GWB rated system.	TG
20	Elev. 1/A210B; There are two HVAC lines coming out of the wall in the vicinity of the southernmost vestibule wall. They appear to be servicing a nearby condensing unit. This conflicts with the wall and foundation. How do you want to resolve this?	There are no elevations on sheet A210B. Coordinate relocation any conflicting utilities to mitigate conflicts with COR.	TG & DWM
21	General Question; There is lightening protection attached to the precast coping that will have to be removed when we remove the coping. Can the existing components be utilized or do you require a new system?	Sheet E200 shows guardrails act as lightening protection system. E200, Sheet Keynote No. 1 states to provide new down conductor and connect to existing grounding electrode system.	TG & DWM
22	Details 2 and 3; Dwg. A212; what is the construction of the interior stair tower walls at door enlargement?	As-builts indicate an exterior precast concrete panel, interior is metal studs/GWB.	TG
23	The 1'-7" wide sidewalk strip running north and south along the new canopy is clearly in Alt. 2, however, is the sidewalk section measuring 18'-9" x 16'-0" part of Alt. 3 (in its entirety)?	Existing sidewalks to remain and are not part of the alternates.	TG
24	What is the extent of canopy for Alt. 3?	a. Would the canopy for Alt. 3 be supported by the two roofing pads on either side of the vestibule? <b>Yes, it is supported by the four posts as indicated and is structurally independent of the vestibule walls.</b> b. How far beyond the masonry walls would the canopy extend? <b>The canopy extends 11" beyond the posts as indicated.</b>	TG
25	Regarding Phasing, will we be given an entire stair tower to work in at one time, allowing crews to work on multiple floors concurrently?	Yes, however, the contractor must ensure the construction area is secured at all times as per General Requirements.	DWM
26	A410; Regarding phasing, how many bathrooms will we be allowed to work in at one time?	Phasing for project is given in General Requirements. Specific areas are to be assigned by COR based on current patient census.	DWM
27	P200; Are the concealed plumbing fixture carriers serviceable for the new fixtures or do they have to be replaced?	No plans exist that show exact conditions. It is unknown if carriers are serviceable.	DWM
28	Det. 2/A410; Typical Enlarged Shower Plan, Note; states that this applies to shower bases SB-1 through SB-6. We could not find a designation "SB-1" or "SB 2", etc. on the drawings. Does this detail apply to all Bedroom Bathrooms shown on Dwg.'s A220 (9 of 49) through and including A252 (20 of 49); approximately 207 locations?	Individual room configurations do not apply. All showers identical to the configuration and modification details shown on Sheet A410 apply. There are 221 showers that meet this configuration.	TG & DWM