



ENGINEERING AND DESIGN FIRM

Bovay Engineers, Inc.
 11757 Katy Freeway
 Suite 700A
 Houston, Texas 77079
 Tel: 713.777.8400

03-11-19
HCC Administration Building
3100 Main St.
Houston, TX 77004
Restroom Remodel Project Floors 5-8

Project Scope:

Supply labor and material to remodel Women's and Men's public restrooms on floors 5 through 8.

Demolition:

Demolish existing ceramic floor tile, ceramic wall tile, ceramic base, toilet partitions, counters, sinks, and wall coverings. All demolition that creates excessive noise or dust will be conducted after normal business hours. Trash and debris will be removed after normal business hours. Contractor will seal all return air grills prior to start demolition and will remain sealed throughout the construction process. Light fixtures will be dust sealed with clear plastic prior to demolition and will remain sealed throughout the construction process.

Reused Materials:

Reuse toilets, urinals, stainless steel corner guards, stainless steel wall mounted accessories, ceiling grid, ceiling lights, and HVAC supply grills and returns.

New Construction:

Install new ceramic floor tile, ceramic wall tile, ceramic base, toilet partitions, counters, counter mounted soap dispensers, drop-in trash chutes, sinks, faucets, and wall coverings.

Contractor Instructions:

1. Contractors will use freight elevators only.
2. All contractors and subcontractors are required to sign-in at the Security desk located at the receiving dock upon arrival and leaving site.
3. Contractor will provide ID badges to all employees and subcontractors identifying their company that are working on the site. Contractor's employees and subcontractors will be required to be badged at all times while on site.
4. Contractors are responsible for protecting adjacent areas to construction site including flooring, walls, and finishes. Protection includes covering floors used to access the construction site.
5. Contractor is responsible for damage to adjacent areas as of a result of the construction project.
6. Contractor shall maintain a broom clean construction site.
7. Contractor will provide a final clean prior to final acceptance by owner.
8. Contractor will coordinate utility access with Maintenance.
9. Contractor will bid based on provided bid specifications and material quantities.
10. Contractor will field verify and confirm quantities prior to ordering and installation.

New Materials:

	Women's Restroom	Men's Restroom	Floors 5-8 Totals
Ceramic Wall tile			
Semi- gloss: Cityline Kohl Urban Putty			
4x4, bull nose	1,320 tiles*	1330 tiles*	10,600 tiles*
4x4, bull nose corners	80 corner tiles*	80 corner tiles*	640 tiles*
Ceramic Base tile			
Semi- gloss: Cityline Kohl Urban Putty			
4x6 sanitary cove base	184 base tiles*	176 base tiles*	1,440 tiles*
4X6 sanitary cove base corner	16 corner tiles*	18 corner tiles*	136 tiles*
Floor Tile			
24" x 24" City View – Harbor Mist	73 tiles*	68 tiles*	564 tiles*

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	Women's Restroom	Men's Restroom	Floors 5-8 Totals
Ceiling tiles			
Armstrong Cortega 2x2 - 824 fire rated.	66 panels*	60 panels*	504 panels*

*Includes 10% waste factor

Wall vinyl

	@ 5% waste	@ 5% waste	
TRI-KES: In Line # L2-IL-06	approx. 465 sf	approx. 536 sf	4004 sf
Color: portico Width: 54 in., 20 oz.	approx. 52 sq. yd.	approx. 60 sq. yd.	448 sq. yd.
	approx. 35 lin. yd.	approx. 40 lin. yd.	300 lin. yd.

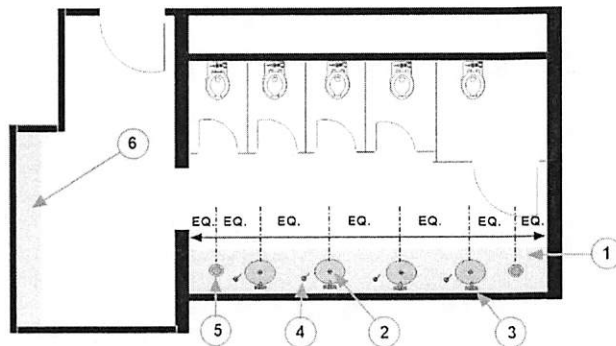
Note: Wall vinyl has been calculated in square feet (sf), square yard (sq. yd.), and linear yard (lin. yd.).

Counter Tops, Sinks, accessories:

LG hi-macs – G605 umber granite with matching glue/seam filler
Reuse existing counter support structure, modify as required

Women's

	Floors 5-8 Totals
1. Sink Counter: 25"W x 16'-5.5"L x 1"Thick, round front edge Backsplash: 4"H x 20'-5.5"L x .0.5"Thick (three sides), flat top edge Under-counter Skirt: 5"W x 16'-5.5"L	4
2. Sinks: American Standard Aqualyn Drop-in Sink 0475.020 w/ stainer drain-chrome plated brass Color: White	16
3. Faucet: Speakman SC-3044-LD-E	16
4. Soap Dispenser: Bobrick B-822 Deck mounted 3402 Liquid Soap Dispenser	16
5. Trash Chute: Bobrick B-529 Stainless Steel Drop-in Trash Chute 5.5" x 5"	8
6. Foyer Counter Counter: 14.5"W x 9'-0"L x 1"Thick, round front edge Under-counter Skirt: 6"W x 9'-0"L x .0.5"Thick	4



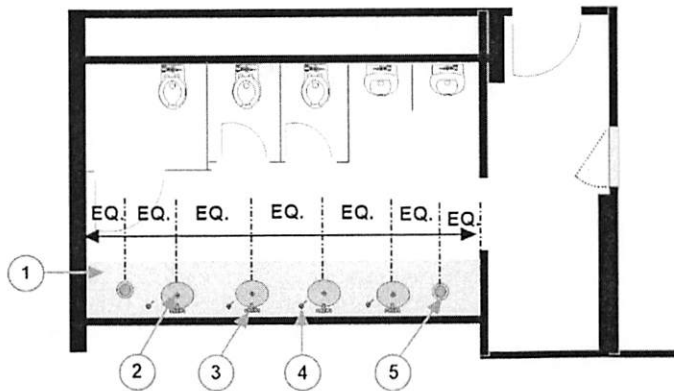
Women's Restroom Toilet Sink Layout



Restroom Material Take-off Project Floors 5-8

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	Floors 5-8 Totals
<u>Men's</u>	
1. Sink Counter: 25"W x 16'-8"L x 1"Thick, round front edge Backsplash: 4"H x 20'-8"L x .0.5"Thick (three sides), flat top edge Under-counter Skirt: 5"W x 16'-8"L	4
2. Sinks: American Standard Aqualyn Drop-in Sink 0475.020 w/ stainer drain-chrome plated brass Color: White	16
3. Faucet: Speakman SC-3044-LD-E	16
4. Soap Dispenser: Bobrick B-822 Deck mounted 3402 Liquid Soap Dispenser	16
5. Trash Chute: Bobrick B-529 Stainless Steel Drop-in Trash Chute 5.5" x 5"	8



Men's Restroom Toilet Sink Layout

Restroom Remodel Project Floors 5-8

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Restroom Partitions

Manufacturer: Tex-Lam Manufacturing, Inc.
7219 Stuebner Airline Rd., Houston, TX 77091
(713) 695-5975

Mounting: Ceiling hung, verify above ceiling structural support, modify as required

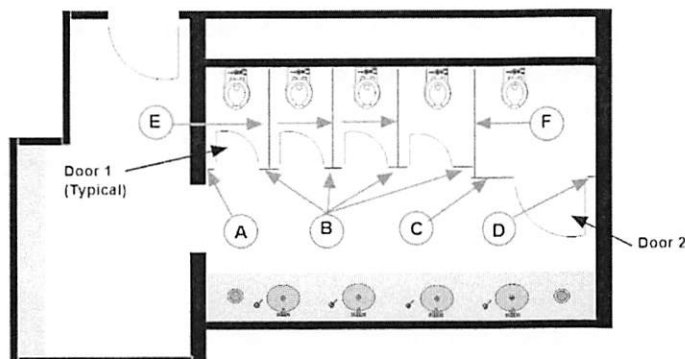
Configuration: Zero Sight Line Compartment

Partition Type: Phenolic

Size: .75" Black core pilaster w/ 4" stainless shoe collar @ ceiling
.5" Black core panels w/ 4" stainless shoe collar @ ceiling
.75" Black core door

Color: Formica Natural Canvas #7022-58

<u>Women's</u>	Quantity	Floors 5-8 Quantity Totals
Pilaster A: 4"W x 83"H	1	4
Pilaster B: 10"W x 83"H	4	16
Pilaster C: 22"W x 83"H	1	4
Pilaster D: 3"W x 83"H	1	4
Panel E: 50"W x 58"H	3	12
Panel F: 55"W x 58"H	1	1
Door 1: 24.5"W x 58"H (24" opening)	4	16
Door 2: 36.5"W x 58"H (36" opening)	1	4
Hardware: Stainless steel brushed finish		
Hinge: continuous piano No. 18256	5	20
.5" Panel mount "U" brackets No. 1789	8	32
.5" Panel mount "T" brackets No. 1569	8	32
.75" Panel mount "L" brackets n No.1649	6	24
Door latch sets (out-swing) No. 6379	1	4
Door latch sets (in-swing) No. 6469	4	16
Coat hook/bumper No. 4003/ADA 4023	5	20
Handle Cast SS No. 5403/544.3	5	20

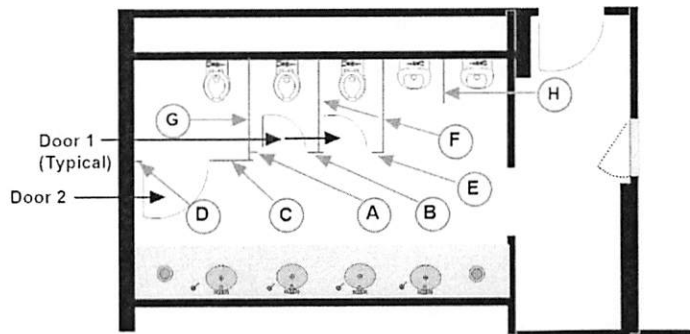


Women's Restroom Toilet Partition Layout

Restroom Remodel Project Floors 5-8

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Men's	Quantity	Floors 5-8 Quantity Totals
Pilaster A: 4"W x 83"H	1	4
Pilaster B: 10"W x 83"H	1	4
Pilaster C: 22"W x 83"H	1	4
Pilaster D: 3"W x 83"H	1	4
Pilaster E: 7"W x 83"H	1	4
Panel F: 50"W x 58"H	2	8
Panel G: 55"W x 58"H	1	4
Panel H: 18"W x 48"H (Urinal)	1	4
Door 1: 24.5"W x 58"H (24" opening)	2	8
Door 2: 36.5"W x 58"H (36" opening)	1	4
Hardware: Stainless steel brushed finish		
Hinge: continuous piano No. 18256	3	12
.5" Panel mount "U" brackets No. 1789	4	16
.5" Panel mount "T" brackets No. 1569	4	16
.75 Panel mount "L" brackets n No.1649	8	32
3" Full length bracket No. 5246 (Urinal)	1	4
Door latch sets (out-swing) No. 6379	1	4
Door latch sets (in-swing) No. 6469	2	8
Coat hook/bumper No. 4003/ADA 4023	3	12
Handle Cast SS No. 5403/544.3	3	12



Men's Restroom Toilet Partition Layout

EXHIBIT "A"

CITY OF HOUSTON, TEXAS
LABOR CLASSIFICATIONS AND PREVAILING WAGE RATES
FOR BUILDING CONSTRUCTION 2019

Worker Classification	Ratio	Base Rate	Fringe Benefit	Wage Total
Asbestos Worker/Insulator *	Ratio 1/1 - Apprentice	\$24.15	\$13.29	\$37.44
Asbestos Abatement Worker (ceilings, walls, floors only)	Ratio 1/3 - Helpers \$9.10	\$14.00	\$0.00	\$14.00
Boilermaker *	Ratio 5/1 - Apprentice	\$28.00	\$22.35	\$50.35
Brick Layer * (see Mason Tender Brick)	Ratio 1/3 - Mason Tender Brick	\$18.87	\$0.00	\$18.87
Carpenter * (Including acoustical ceiling work)	Ratio 2/1 - Apprentice	\$23.05	\$8.78	\$31.83
Cement Mason/Concrete Finisher *	Ratio 1/3 Mason Tender	\$13.93	\$0.00	\$13.93
Drywall Finisher/Taper *	Ratio 1/3 - Helpers \$8.54	\$16.27	\$3.66	\$19.93
Drywall Hanger, * incl. metal stud's installation	Ratio 1/3 - Helpers \$9.46	\$17.44	\$3.93	\$21.37
Electrician (Excludes Low Voltage Wiring and Installation of Alarm)	Ratio 3/2 - Apprentice	\$32.25	\$9.14	\$41.39
Electrician (Alarm Installation Only) *	Ratio 1/1 - Apprentice	\$17.97	\$3.37	\$21.34
Elevator Mechanic *	Ratio 1/1 - Apprentice	\$41.28	\$32.64	\$73.92
Formbuilder/ Formsetter *	Ratio 1/3 - Helpers \$7.67	\$12.77	\$0.00	\$12.77
Glazier *	Ratio 1/3 - Helper \$11.51	\$23.27	\$7.12	\$30.39
Insulator * (Batt and Foam)	Ratio 1/3 - Helper \$6.50	\$14.87	\$0.73	\$15.60
Ironworker *(Reinforcing)	Ratio 1/3 - Helper \$7.83	\$12.14	\$0.00	\$12.14
Ironworker *(Structural)	Ratio 1/3 - Helper \$10.19	\$23.27	\$7.12	\$30.39
Lather *	Ratio 1/3 - Helper \$13.38	\$19.73	\$0.00	\$19.73
Painter * (Brush, Roller, and Spray)	Ratio 1/3 - Helper \$7.42	\$17.24	\$4.41	\$21.65
Pipe Fitter *(HVAC Pipe only)	Ratio 1/1 - Apprentice	\$34.10	\$11.71	\$45.81
Pipe Fitter *(Excluding HVAC)	Ratio 1/3 - Helper \$12.40	\$31.73	\$10.31	\$42.04
Plasterer *	Ratio 1/3 Plaster Tenders	\$19.92	\$1.00	\$20.92
Plasterer Tender - Laborer - (Plaster's Helper)		\$12.90	\$2.51	\$15.41
Plumber * (Excluding HVAC Pipe)	Ratio 3/2 - Apprentice	\$35.60	\$11.04	\$46.64
Roofer *	Ratio 1/3 - Helper \$7.85	\$15.40	\$0.00	\$15.40
Sheet Metal Worker *(Incl. HVAC duct and system install.)	Ratio 2/1 - Apprentice	\$27.72	\$13.70	\$41.42
Sprinkler Fitter * (Fire sprinklers)	Ratio 1/1 - Apprentice	\$29.03	\$15.84	\$44.87
Tile Finisher *	Ratio 1/3 - Helper \$8.08	\$12.00	\$0.00	\$12.00
Tile Setter *	Ratio 1/3 - Helper \$10.91	\$16.17	\$0.00	\$16.17
Truck Driver		\$14.18	\$0.00	\$14.18
Laborers:				
Common Laborer		\$11.76	\$0.00	\$11.76
Mason Tender (Bricklayer's Helper)		\$13.47	\$0.00	\$13.47
Mason Tender (Cement /Concrete Finisher's Helper)		\$10.48	\$0.00	\$10.48
Pipe Layer		\$12.94	\$0.00	\$12.94
Plaster Tender (Plasterer's helper)		\$12.90	\$2.51	\$15.41
Power Equipment Operator:				
Asphalt Paver		\$16.03	\$0.00	\$16.03
Backhoe - Power Equipment Operator		\$13.94	\$0.00	\$13.94
Crane - Power Equipment Operator		\$34.85	\$9.85	\$44.70
Forklift - Power Equipment Operator		\$16.00	\$0.00	\$16.00
Slab and Wall Saw - Power Equipment Operator		\$15.54	\$3.83	\$19.37
Welders - Receive rate prescribed for craft performing operation in which welding is incidental				

EXHIBIT 5

PAYMENT BOND

Project No: _____

STATE OF TEXAS

COUNTY OF HARRIS

KNOW ALL PERSONS BY THESE PRESENTS: That _____

(Contractor), of the City of _____, County of _____, and
State of _____, as Principal, and _____
_____, authorized under the Laws of the State of Texas to act as
surety on bonds for principals, are held and firmly bound unto **Houston Community College
System** (Owner), in the penal sum of _____
Dollars (\$ _____) for the payment whereof, the said Principal
and Surety bind themselves, and their respective officers, directors, shareholders, partners,
heirs, administrators, executors, successors and assigns, jointly and severally, by these
presents:

WHEREAS, the Principal has entered into a certain written contract with the Owner, dated the __
_____ day of _____, 20____, for construction of:

which contract is hereby referred to and made a part hereof as fully and to the same extent as if
copied at length herein.

NOW, THEREFORE, THE CONDITIONS OF THIS OBLIGATION IS SUCH, that if the said
Principal shall pay all claimants supplying Public Work Labor and Public Work Material (as
defined by Section 2253.001 of the Texas Government Code) to him or a subcontractor in the
prosecution of the work provided for in said contract, then, this obligation shall be void;
otherwise to remain in full force and effect;

PROVIDED, HOWEVER, That this bond is executed pursuant to the provisions of Chapter 2253
of the Texas Government Code as amended and all liabilities on this bond shall be determined
in accordance with the provisions of said Statute to the same extent as if it were copied at
length herein.

Surety, for value received, stipulates and agrees that no change, extension of time, alteration or
addition to the terms of the contract, or to work performed thereunder, or the plans,
specifications, or drawings, accompanying the same, shall in anyway affect its obligation on this
bond, and it does hereby waive notice of any such change, extension of time, alteration or
addition to the terms of the contract, or the work to be performed thereunder.

IN WITNESS WHEREOF, the said Principal and Surety have signed and sealed this instrument
_____ day of _____, 20____.

Principal

BY: _____

TITLE: _____

ADDRESS:

Surety

BY: _____

TITLE: _____

PHYSICAL ADDRESS:

MAILING ADDRESS:

TELEPHONE: _____

LOCAL RECORDING AGENT

PERSONAL IDENTIFICATION NUMBER:

The name and address of the Resident Agent of Surety is:

EXHIBIT 6

PERFORMANCE BOND

Project No. _____

THE STATE OF TEXAS
COUNTY OF HARRIS

§
§
§

KNOW ALL MEN BY THESE PRESENTS:

THAT WE, _____, as Principal, hereinafter called "Contractor" and the other subscriber hereto _____, as Surety, do hereby acknowledge ourselves to be held and firmly bound to The Houston Community College, "Owner," in the sum of _____ (\$_____) for the payment of which sum, well and truly to be made to Owner and its successors, the said Contractor and Surety do bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH THAT:

WHEREAS, the Contractor has on or about this day executed a Contract in writing with Owner for

_____ all of such work to be done as set out in full in said Contract Documents therein referred to and adopted by the Owner, all of which are made a part of this instrument as fully and completely as if set out in full herein.

NOW THEREFORE, if the said Contractor shall faithfully and strictly perform Contract in all its terms, provisions, and stipulations in accordance with its true meaning and effect, and in accordance with the Contract Documents referred to therein and shall comply strictly with each and every provision of Contract and with his bond, then this obligation shall become null and void and shall have no further force and effect; otherwise the same is to remain in full force and effect.

Should the Contractor fail to faithfully and strictly perform the Contact in all its terms, the Surety shall be liable for all damages, losses, expenses and liabilities that the Owner may suffer in consequence thereof, as more fully set forth herein. It is further understood and agreed that the Surety does hereby relieve Owner or its representatives from the exercise of any diligence whatever in securing compliance on the part of the Contractor with the terms of the Contract, including the making of payments thereunder, excepting only Owner's failure to make such payments in accordance with the terms and conditions of the Contract, and, having fully considered its Principal's competence to perform the Contract in the underwriting of this Performance Bond, the Surety hereby waives any notice of delay by the Contractor in the performance of the Contract. The Surety understands and agrees that the provision in the Contract that Owner shall retain

certain amounts due the Contractor until the expiration of thirty days from the acceptance of the Work is intended for the Owner's benefit, and Owner shall have the right to pay or withhold such retained amounts or any other amount owing under the Contract without changing or affecting the liability of the Surety hereon in any degree.

It is further expressly agreed by Surety that Owner or its representatives are at liberty at any time, without notice to the Surety, to make any change in the Contract Documents and in the Work to be done thereunder, as provided in the Contract, and in the terms and conditions thereof, or to make any change in, addition to, or deduction from the work to be done thereunder; and that such changes, if made, shall not in any way vitiate the obligation in this bond and undertaking or release the Surety therefrom.

This bond and all obligations created hereunder shall be performable in Harris County, Texas. This bond is given in compliance with the provisions of Chapter 2253 of the Texas Government Code, as amended, which is incorporated herein by this reference. However, all of the express provisions hereof shall be applicable whether or not within the scope of said statute.

IN WITNESS THEREOF, the said Contractor and Surety have signed and sealed this instrument on the respective dates written below their signatures and have attached current Power of Attorney.

ATTEST, SEAL: (if a corporation)

WITNESS: (if not a corporation)

(Name of Contractor)

By: _____
Name:
Title:

By: _____
Name:
Title:
Date:

ATTEST, SEAL: (if a corporation)

WITNESS: (if not a corporation)

(Name of Surety)

By: _____
Name:
Title:

By: _____
Name:
Title:
Date: