

# ALABAMA A&M UNIVERSITY ELMORE HEALTH SCIENCE RESTROOM RENOVATIONS NORMAL, ALABAMA

NOLA | VANPEURSEM ARCHITECTS PROJECT NUMBER: 21224  
ALABAMA DIVISION OF CONSTRUCTION MANAGEMENT NUMBER:

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ALABAMA A&M UNIVERSITY  
ELMORE HEALTH SCIENCE  
RESTROOM RENOVATIONS  
NORMAL, ALABAMA

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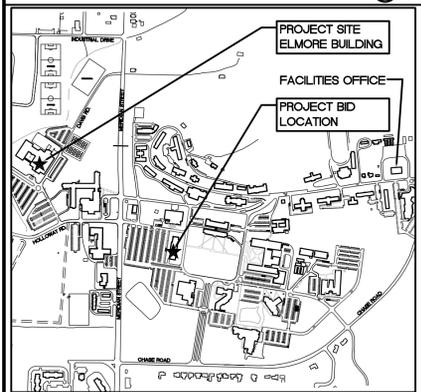
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## CAMPUS MAP



MARCH 11, 2022

SET NUMBER



### ARCHITECT

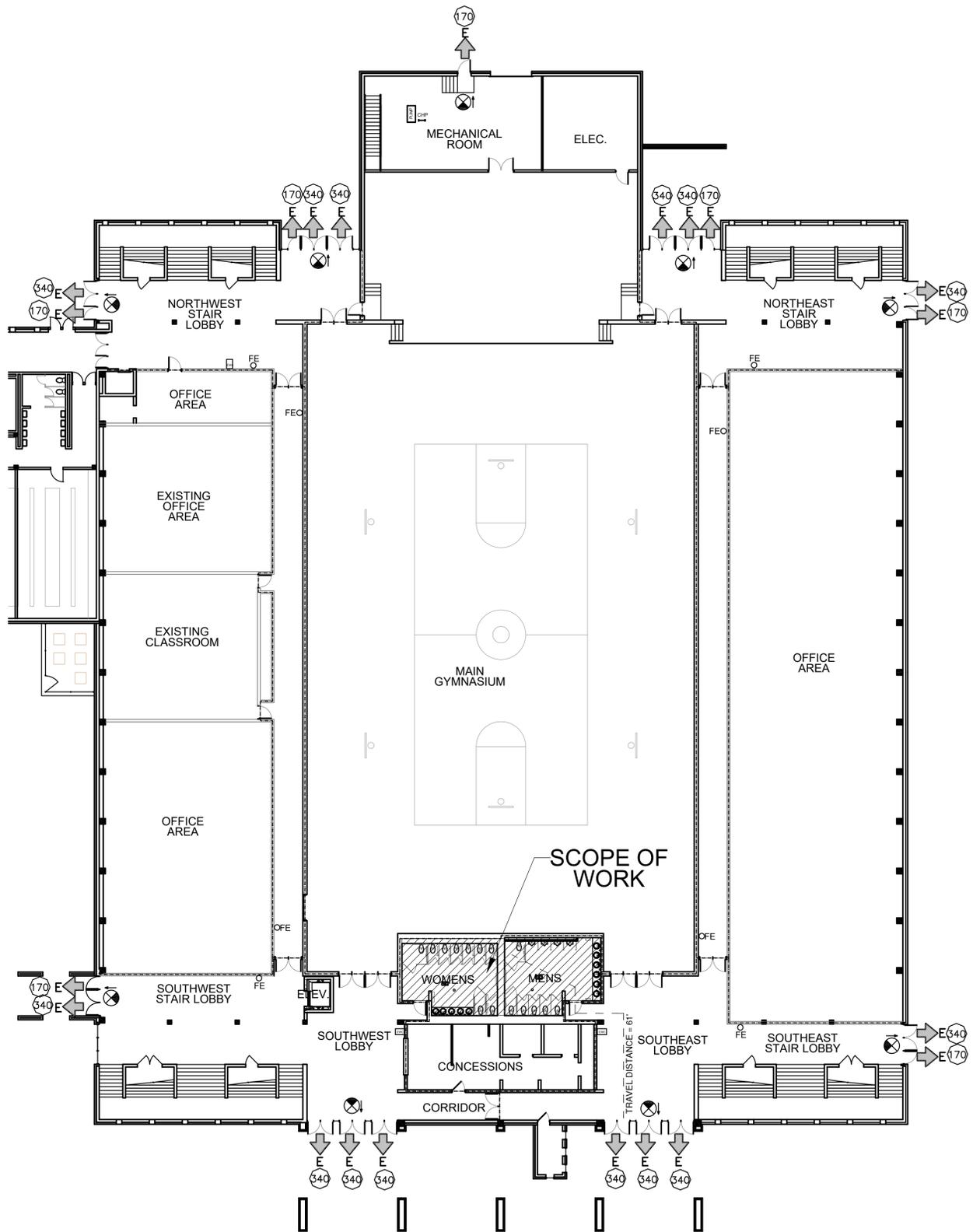
**NOLA I VAN PEURSEM ARCHITECTS, PC**  
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### MECHANICAL ENGINEER

**MIMS ENGINEERING, INC.**  
112-B SOUTHSIDE SQUARE  
HUNTSVILLE, ALABAMA 35801  
(256) 881-4126 TEL  
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### ELECTRICAL ENGINEER

**THE EE GROUP, INC.**  
1521 RAINBOW DRIVE  
GADSDEN, ALABAMA 35901  
P.(256) 413-7717



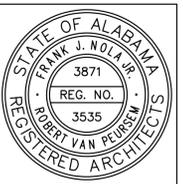
1 FIRST FLOOR LIFE SAFETY PLAN  
 A-1.0 SCALE: 1/16" = 1'-0"  
 PLAN NORTH

**NOTE:** PROJECT SCOPE IS A ONE-FOR-ONE REPLACEMENT OF ALL RESTROOM FIXTURES. THE NUMBER OF FIXTURES WILL NOT CHANGE AS A RESULT OF THIS WORK.

PLUMBING FACILITIES FIXTURE COUNT					
EXISTING FIXTURES TO BE REMOVED					
Male WC	Female WC	Male Lavatories	Female Lavatories	DF	Utility Sinks
10	9	6	5	2	NO WORK
NEW FIXTURES TO REPLACE DEMOLISHED FIXTURES					
Male WC	Female WC	Male Lavatories	Female Lavatories	DF	Utility Sinks
10	9	6	5	2	NO WORK

- APPLICABLE CODES:**
- INTERNATIONAL BUILDING CODE - 2015 EDITION
  - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
  - INTERNATIONAL FUEL GAS CODE - 2015 EDITION
  - INTERNATIONAL PLUMBING CODE - 2015 EDITION
  - INTERNATIONAL MECHANICAL CODE - 2015 EDITION
  - INTERNATIONAL ELECTRICAL CODE - 2014 EDITION
  - INTERNATIONAL FIRE CODE - 2015 EDITION

- LIFE SAFETY LEGEND**
- E ← = EXIT
  - (XXX) = DOOR/STAIR EXIT CAPACITY
  - ⊗ = EXISTING LIGHTED EXIT SIGN
  - FEC = EXISTING FIRE EXTINGUISHER CABINET
  - FE = EXISTING FIRE EXTINGUISHER (WALL MTD)
  - = EXISTING 1 HOUR FIRE SEPARATION
  - = EXISTING 2 HOUR FIRE SEPARATION
- NOTE: NOT ALL EXISTING EXIT SIGNS, FEC, FE SHOWN



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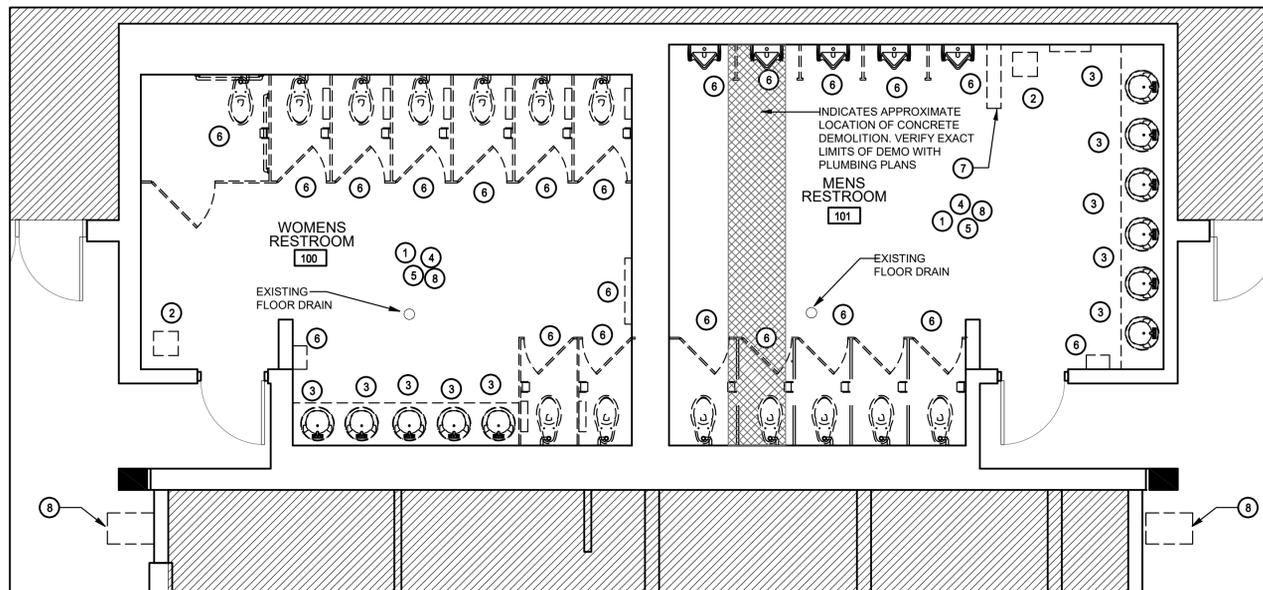
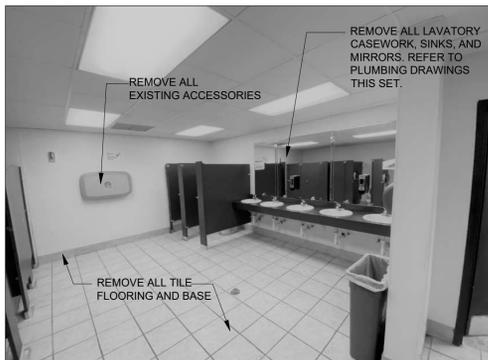
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 DRAWN - CHECKED - DATE

REVISIONS


SHEET TITLE  
 FIRST FLOOR LIFE SAFETY PLAN

SHEET NUMBER  
 A-1.0  
 OF

★ SEE DEMOLITION PLAN FOR ENTIRE SCOPE OF WORK.



NOTE: CONTRACTOR TO SAW CUT PORTION OF CONCRETE FLOOR TO MAKE NEW WASTE LINE CONNECTIONS. REFER TO PLUMBING PLANS FOR EXACT LOCATIONS. PATCH AND REPAIR FLOOR TO MATCH EXISTING, READY TO RECEIVE NEW FINISH.

**1 RESTROOM DEMOLITION PLAN**  
A-1.1 SCALE: 1/4" = 1'-0" PLAN NORTH

**GENERAL NOTES:**

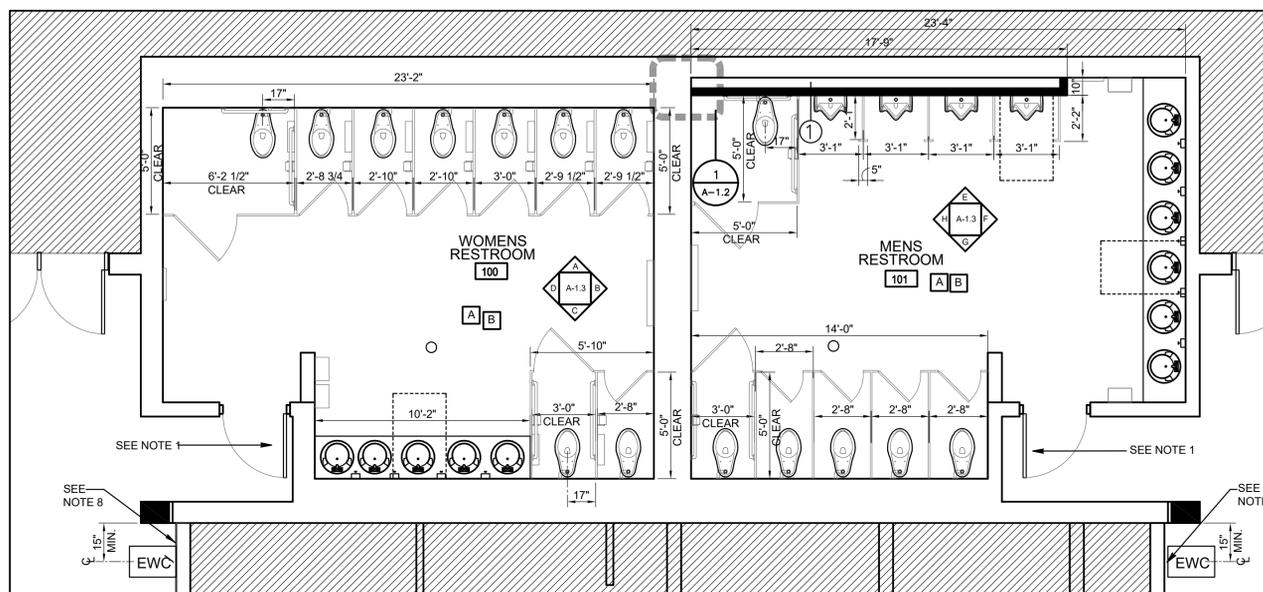
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND CONFIRM EXISTING CONDITIONS PRIOR TO THE BID.
- IT IS THE INTENT OF THESE DOCUMENTS THAT THIS RENOVATION WORK REQUIRES PATCHING, PAINTING, & REPAIR AS NECESSARY TO MATCH EXISTING QUALITY OF WALLS & SURFACES, ETC. ASSOCIATED WITH THIS CONSTRUCTION. ANY EXISTING STRUCTURE, UTILITY, ETC TO REMAIN WHICH IS DAMAGED BY CONTRACTOR OR SUBCONTRACTOR DURING DEMOLITION/CONSTRUCTION SHALL BE REPAIRED/REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- REMOVE ALL DEMOLITION DEBRIS PROMPTLY FROM THE SITE AND DISPOSE OF PROPERLY IN ACCORDANCE WITH APPLICABLE LAWS AND ORDINANCES.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR WORK ZONE SAFETY AND SECURITY.
- ANY WALL TO REMAIN THAT IS AFFECTED BY THE REMOVAL OF ELECTRICAL, MECHANICAL, OR PLUMBING ITEMS SHALL BE PATCHED AS REQUIRED TO MATCH EXISTING ADJACENT CONSTRUCTION.
- HATCHED AREAS DENOTE AREAS NOT IN SCOPE OF PROJECT. NO SIGNIFICANT WORK SHALL BE DONE IN THESE AREAS. SEE ALL DOCUMENTS FOR ANY MISCELLANEOUS WORK IN THESE AREAS.
- DOORS AND HARDWARE ARE EXISTING TO REMAIN. CONTRACTOR TO PROTECT AND REPAIR/REPLACE DAMAGE DURING CONSTRUCTION AT NO COST TO OWNER.

**DEMOLITION NOTES:**

- REMOVE EXISTING FLOOR TILE, MUD BED, AND WALL BASE.
- REMOVE EXISTING CEILING MOUNTED HEATER. SEE ELECTRICAL PLAN.
- REMOVE ALL EXISTING CASEWORK, SINKS, AND ACCESSORIES.
- REMOVE ALL FRP PANELS ON WALLS. PATCH AND REPAIR CMU WALLS AS NECESSARY TO RECEIVE NEW FINISH.
- REMOVE EXISTING CEILING GRID AND LIGHT FIXTURES.
- REMOVE ALL EXISTING URINALS, WATER CLOSETS, TOILET PARTITIONS, GRAB BARS, AND ACCESSORIES.
- REMOVE PORTION OF CMU WALL AS SHOWN ON PLAN AND ANY REQUIRED TO PERFORM THE WORK.
- REMOVE EXISTING DRINKING FOUNTAIN AND SAVE FOR REUSE. PREPARE WALL FOR REINSTALLATION OF EXISTING FIXTURE. REFER TO PLUMBING PLANS AND SPECS.

★ SEE ALL DOCUMENTS FOR COMPLETE SCOPE OF WORK FOR ALL TRADES

**LEGEND**



**2 RESTROOM PLAN**  
A-1.1 SCALE: 1/4" = 1'-0" PLAN NORTH

**FLOOR PLAN GENERAL NOTES:**

- PAINT BOTH SIDES OF RESTROOM DOORS AND DOOR FRAMES IN 100 & 101 AS DESCRIBED IN SPECS.
- INSTALL NEW FLOORING IN ALL ROOMS AS DESCRIBED IN THE SPECS
- FLOOR PATTERN STARTING AND LAYOUT POINTS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
- SEE ROOM FINISH SCHEDULE FOR ANY OTHER ADDITIONAL INFORMATION.
- INSTALL FLOORING AT ALL OPEN AREAS BELOW CASEWORK, WHETHER INDICATED OR NOT.
- CONTRACTOR TO REPAIR ANY DAMAGE TO EXISTING CMU WALLS WHERE FRP PANELS HAVE BEEN REMOVED. PROVIDE A SKIM COAT ON ENTIRE WALL SURFACE TO PREPARE FOR NEW FINISH.
- CONTRACTOR TO INSTALL NEW GUARD RAIL ON ROOF AROUND EXHAUST FAN EQUIPMENT. REFER TO DETAIL 4 ON SHEET A-1.3. COORDINATE WITH MECHANICAL DRAWINGS AND SPECS.
- CONTRACTOR TO REINSTALL EXISTING DRINKING FOUNTAINS. REFER TO PLUMBING PLAN.
- WHERE EXISTING DRINKING FOUNTAINS HAVE BEEN REMOVED, CONTRACTOR TO REPAIR ANY DAMAGE TO CMU WALLS. PREPARE WALLS AS REQUIRED TO RECEIVE NEW UNIFORM PAINT FINISH. NOTE THAT CONTRACTOR SHALL PAINT ENTIRE ALCOVE WHERE DRINKING FOUNTAINS WERE REMOVED TO PROVIDE CONSISTENT FINISH.
- PROVIDE NEW ACCESS PANEL DOORS TO MATCH EXISTING DIMENSIONS AND MATERIALS AT ALL EXISTING LOCATIONS. REFER TO ELEVATIONS.



**PARTITION LEGEND:**

- DENOTES EXISTING PARTITION
- DENOTES NEW PARTITION

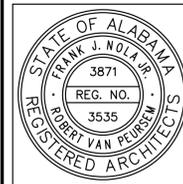
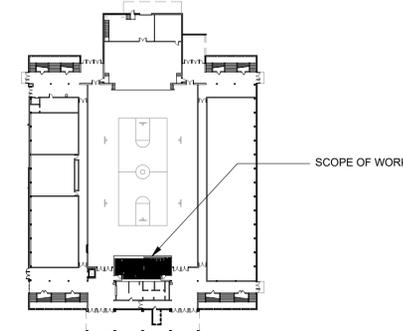
**WALL TYPES:**

- NEW PARTITION: 3-5/8" METAL STUDS, PLACED 16" O.C W/ 1 LAYER 5/8" CEMENT BD. ONE SIDE. (FIXTURE SIDE). TOP OF WALL 4" MIN. ABOVE HIGHEST ADJACENT CEILING HEIGHT. BRACE TO STRUCTURE WHERE REQUIRED.

**RENOVATION NOTES:**

- A** INSTALL NEW PORCELAIN FLOOR TILE, WALL TILE, AND BASE
- B** INSTALL NEW CEILING GRID AND TILE. REFER TO REFLECTED CEILING PLAN.

**KEY PLAN:**



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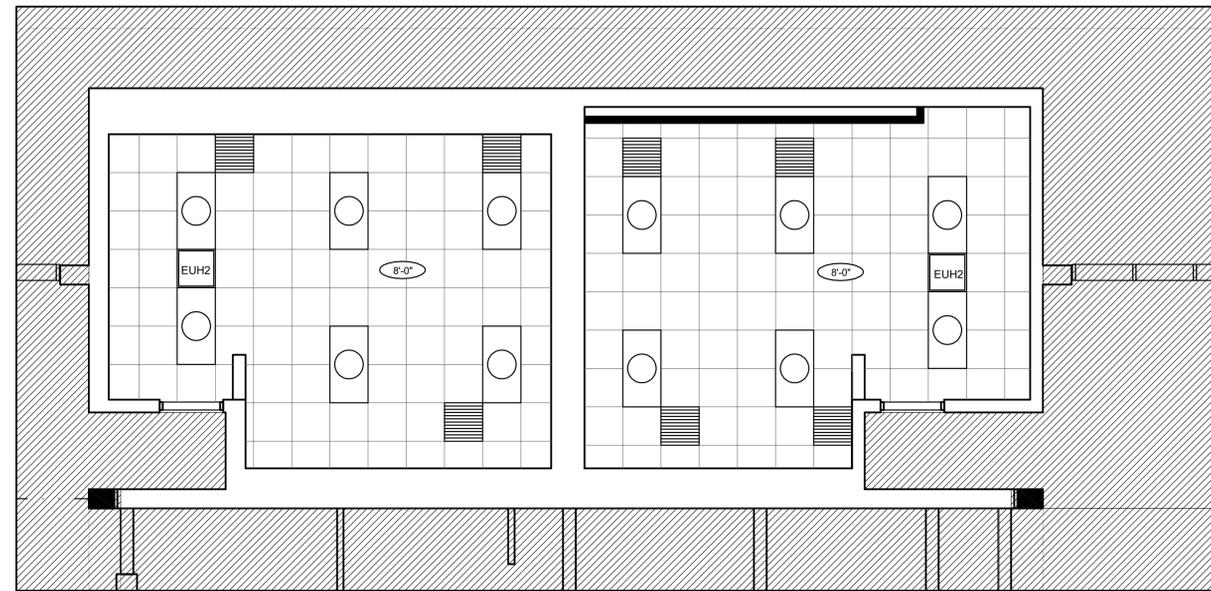
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REVISIONS

SHEET TITLE  
**RESTROOM DEMOLITION AND FLOOR PLANS**

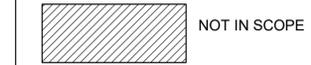
SHEET NUMBER  
**A-1.1**  
OF



1 RESTROOM REFLECTED CEILING PLAN  
 A-1.2 SCALE: 1/4" = 1'-0" PLAN NORTH

REFLECTED CEILING PLAN GENERAL NOTES:

- LIGHTS AND DIFFUSERS ARE SHOWN ON REFLECTED CEILING PLAN FOR LOCATION AND COORDINATION PURPOSES ONLY. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR FURTHER INFORMATION. VERIFY ANY DISCREPANCIES WITH ARCHITECT.
- ALL CEILING HEIGHTS SHOWN ARE A.F.F. (ABOVE FINISHED FLOOR).



REFLECTED CEILING PLAN LEGEND:

NEW 2'X2' CEILING GRID	2X4 LED LIGHT
RETURN/ EXHAUST AIR GRILLE (SEE MECHANICAL DWGS.)	ILLUMINATED EXIT SIGN (SEE ELECTRICAL DWGS.)
CEILING MOUNTED HEATER (SEE ELECTRICAL DWGS.)	CEILING HEIGHT, A.F.F.



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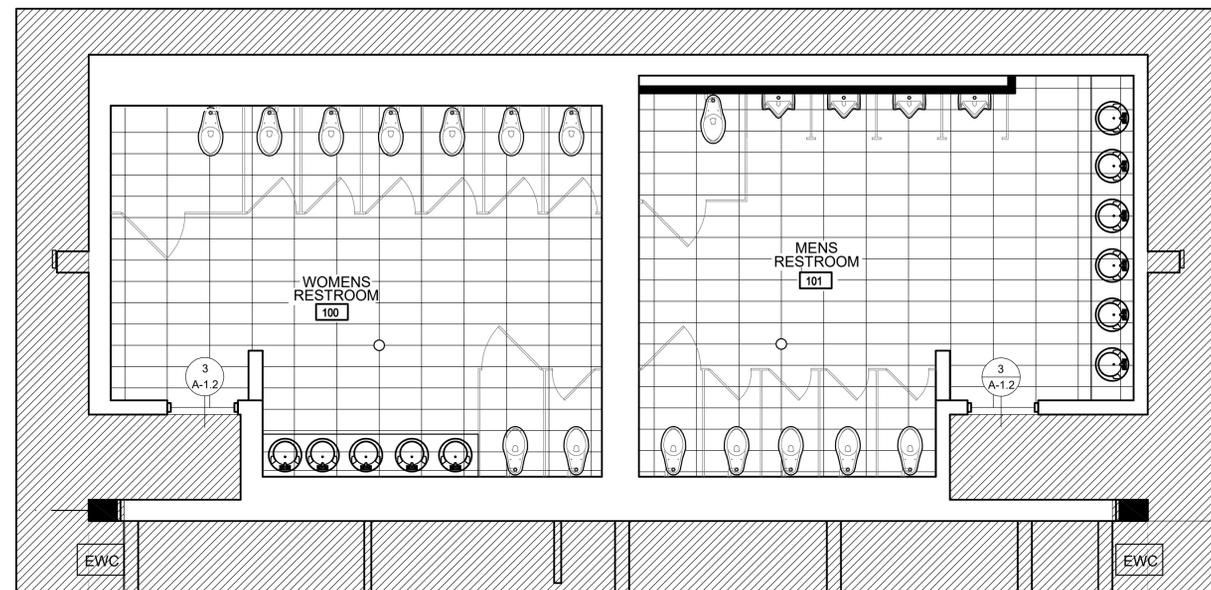
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SHEET TITLE  
 1ST FLOOR  
 REFLECTED CEILING  
 AND FINISH PLANS

SHEET NUMBER  
 A-1.2  
 OF



2 RESTROOM FINISH PLAN  
 A-1.2 SCALE: 1/4" = 1'-0" PLAN NORTH

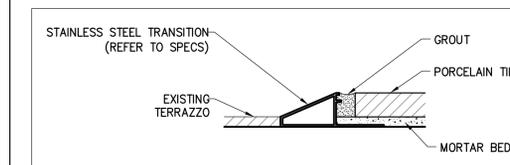
FINISH PLAN GENERAL NOTES:

- ALL FLOORS ARE TO RECEIVE 12"X24" PORCELAIN TILE (PT-1). REFER TO SPECS.
- PROVIDE TRANSITION STRIP BETWEEN PORCELAIN TILE AND TERRAZZO. REFER TO SILL DETAIL 3 ON SHEET A-1.2
- ALL WALLS ARE TO RECEIVE CWT-1 PORCELAIN WALL TILE. AND STAINLESS STEEL COVE PIECE WHERE WALL TILE MEETS FLOOR TILE. REFER TO SPECS.
- FLOOR PATTERN STARTING AND LAYOUT POINTS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
- SEE ROOM FINISH SCHEDULE FOR ANY OTHER ADDITIONAL INFORMATION.
- CENTER FLOORING PATTERNS IN ROOMS IN EACH DIRECTION.
- INSTALL FLOORING AT ALL OPEN AREAS BELOW CASEWORK, WHETHER INDICATED OR NOT.
- WHERE TILE IS INSTALLED AT A 90 DEGREE OUTSIDE CORNER, CONTRACTOR SHALL USE A QUADREC TRIM PIECE (FLOOR TO CEILING) TO PROVIDE A FINISHED EDGE. REFER TO SPECS.
- FLOOR TILE TO BE INSTALLED ON A MUD BED. SLOPE FLOOR TO HAVE POSITIVE DRAINAGE TO EXISTING FLOOR DRAINS.

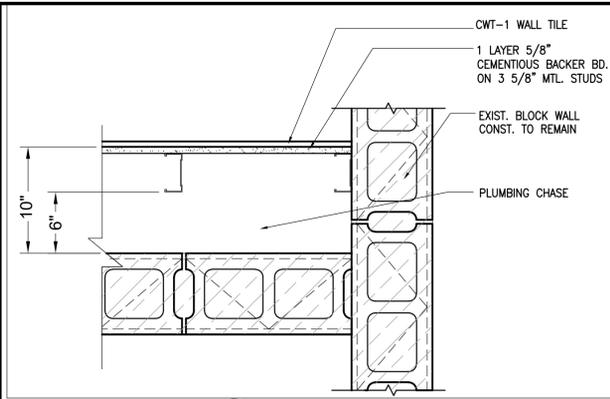


FINISH LEGEND:

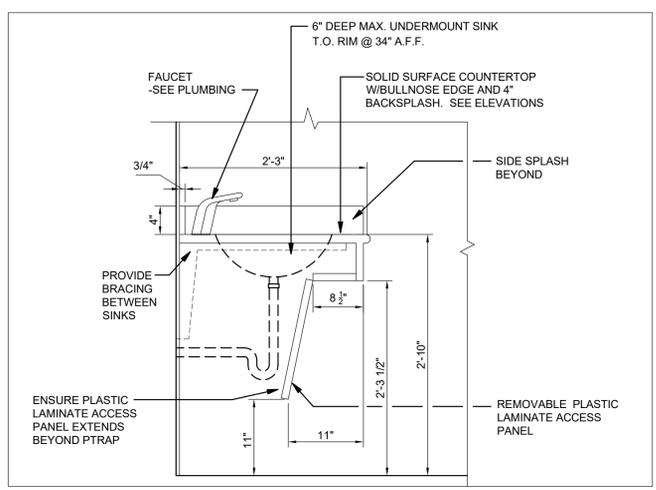
INDICATES 12"X24" PORCELAIN FLOOR TILE
--



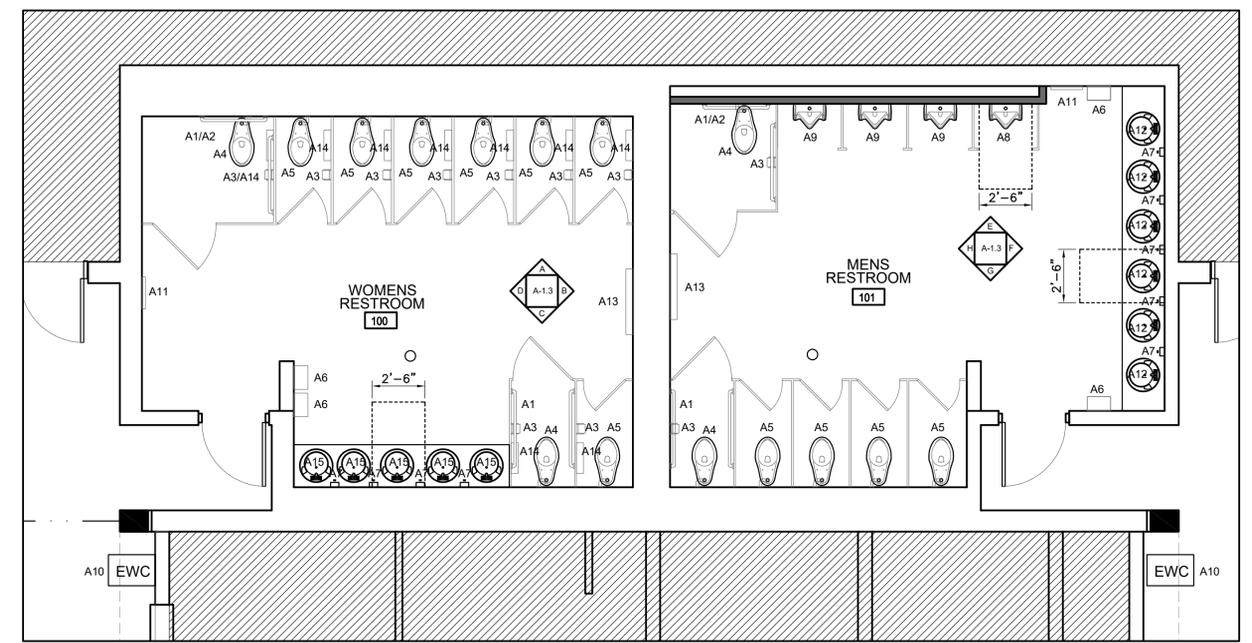
3 SILL DETAIL  
 A-1.2 SCALE: 1 1/2" = 1'-0"



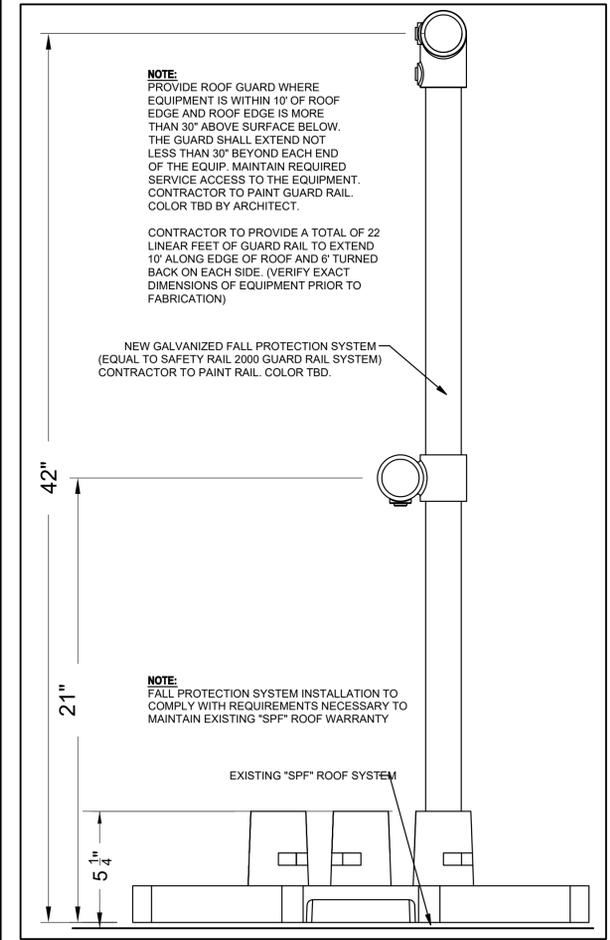
1 PLAN DETAIL  
A-1.3 SCALE: 1-1/2" = 1'-0"



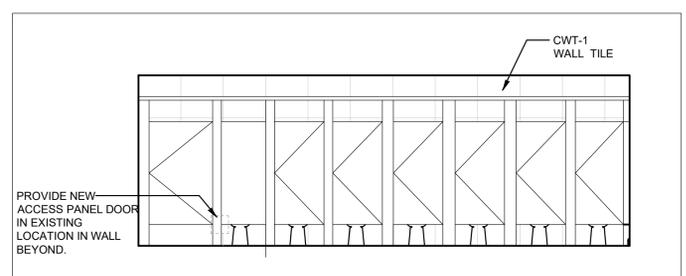
2 SECTION AT LAVATORY  
A-1.3 SCALE: 1" = 1'-0"



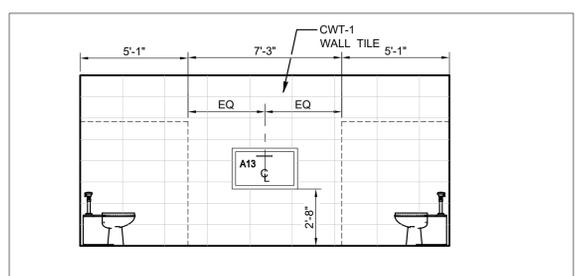
3 RESTROOM ELEVATION KEY PLAN  
A-1.3 SCALE: 1/4" = 1'-0"



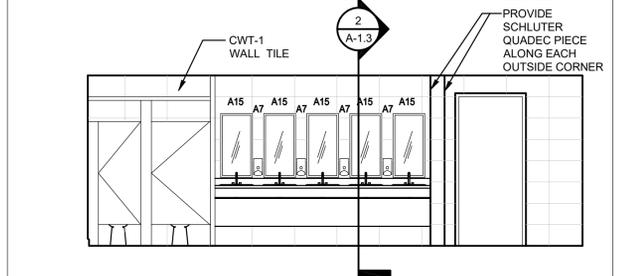
4 PLAN DETAIL  
A-1.3 SCALE: 3" = 1'-0"



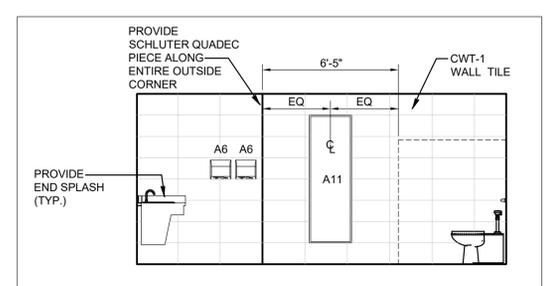
A WOMENS ROOM ELEVATION  
A-1.3 SCALE: 1/4" = 1'-0"



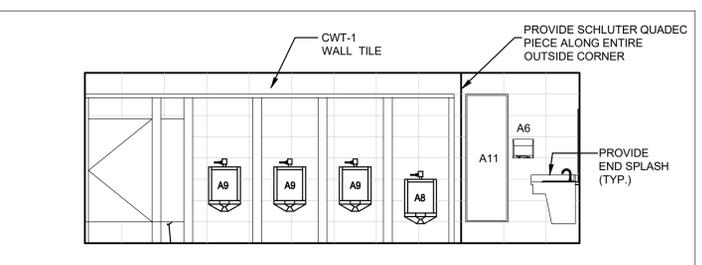
B WOMENS ROOM ELEVATION  
A-1.3 SCALE: 1/4" = 1'-0"



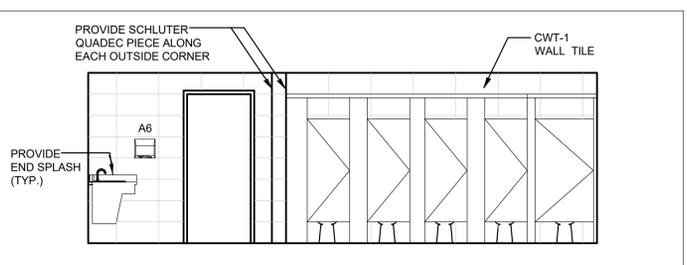
C WOMENS ROOM ELEVATION  
A-1.3 SCALE: 1/4" = 1'-0"



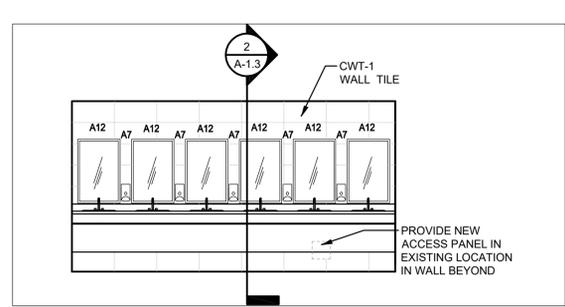
D WOMENS ROOM ELEVATION  
A-1.3 SCALE: 1/4" = 1'-0"



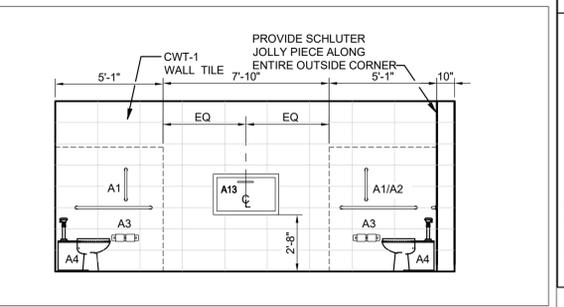
E MENS ROOM ELEVATION  
A-1.3 SCALE: 1/4" = 1'-0"



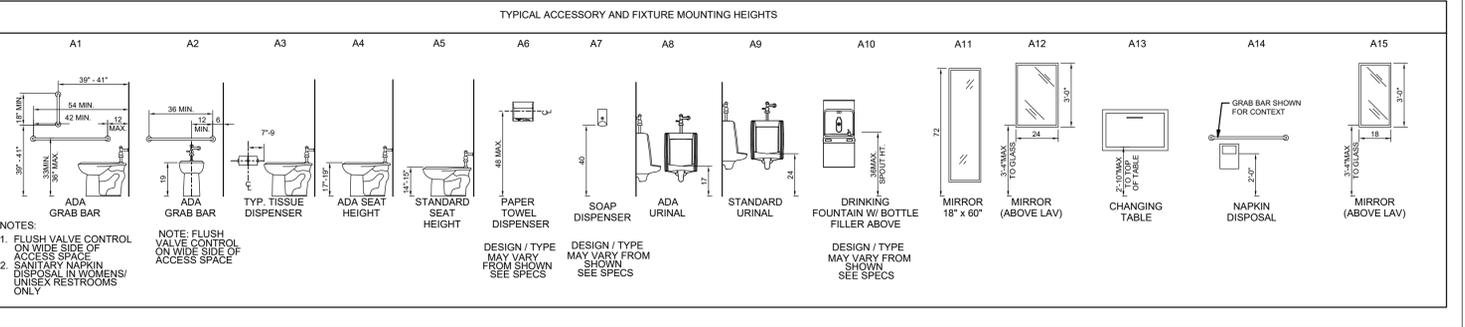
G MENS ROOM ELEVATION  
A-1.3 SCALE: 1/4" = 1'-0"



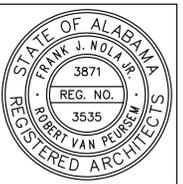
F MENS ROOM ELEVATION  
A-1.3 SCALE: 1/4" = 1'-0"



H MENS ROOM ELEVATION  
A-1.3 SCALE: 1/4" = 1'-0"



- TYPICAL RESTROOM NOTES:  
1. PROVIDE THRESHOLD AT ALL DOORS OR DOORWAYS SEPARATING TILE FLOORING @ RESTROOM FROM FLOORING @ CORRIDOR.  
2. SEE SPECS FOR ALL TOILET ACCESSORIES.  
3. PROVIDE CEMENTITIOUS BACKER BOARD @ NEW STUD WALLS W/ CERAMIC TILE FINISH



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SHEET TITLE

PLAN DETAILS, ELEVATION KEY PLAN, & ELEVATIONS

SHEET NUMBER  
A-1.3  
OF

PLUMBING FIXTURE SCHEDULE		CONNECTION SIZES						REMARKS
MARK	DESCRIPTION	WASTE	VENT	CW	HW	ACID WASTE	ACID VENT	
P1	ADA ACCESSIBLE WATER CLOSET, FLOOR MOUNTED, MANUAL FLUSH VALVE	4"	2"	1"				
P2	WATER CLOSET FLOOR MOUNTED, MANUAL FLUSH VALVE	4"	2"	1"				
P3	ADA ACCESSIBLE URINAL, MANUAL FLUSH VALVE	2"	1-1/2"	3/4"				
P4	URINAL, FLUSH VALVE, MANUAL FLUSH VALVE	2"	1-1/2"	3/4"				
P5	ADA ACCESSIBLE, LAVATORY INTEGRAL TO COUNTER TOP BY ARCH, PROVIDE SENSOR OPERATED FAUCET & TRIM. PROVIDE THERMOSTATIC MIXING (TMV-1) SET AT 109°F MAX. DISCHARGE TEMP.	1-1/2"	1-1/2"	1/2"	1/2"			
P6	ADA ACCESSIBLE, (EXISTING) ELECTRIC WATER COOLER, SENSOR OPERATED, REINSTALL AT PROPER MOUNTING HEIGHT & CLEARANCES PER ADA GUIDELINES	1-1/2"	1-1/2"	1/2"	1/2"			
WHB	WALL HYDRANT BOX, NARROW TYPE, STAINLESS STEEL, LOOSE KEY, 3/4" MALE HOSE CONNECTION AND VACUUM BREAKER			1/2"				
FD1	FLOOR DRAIN, (MAIN RESTROOMS), PROVIDE TRAP GUARD INSERT	3"	EX.				*FIELD VERIFY PIPE SIZE	

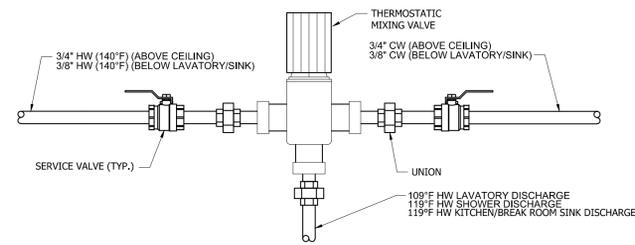
- NOTES:
- PIPES SHALL BE EXTENDED TO THE FIXTURE FULL SIZE AS INDICATED. ANY REDUCTION IN PIPE SIZE FOR ACTUAL CONNECTION SHALL BE DONE AT THE TEE ON THE AIR CHAMBER FOR THE PIPE EXTENSION THRU THE WALL
  - COORDINATE MOUNTING HEIGHT AND LOCATION OF ALL FIXTURES WITH THE ARCHITECTURAL DRAWINGS.

MIXING VALVE SCHEDULE					
MARK	LOCATION	FLOW GPM	ΔP PSI MAX	MIXED WATER TEMP.	REMARKS
TMV-1	LAVATORIES	0.5-4	5	NOTE 2	NOTE 1

- REMARKS:
- POINT OF USE THERMOSTATIC MIXING VALVE REFER TO SPECIFICATIONS. MOUNT WITHIN SHROUD OR BASE CABINET WHEN AVAILABLE, OTHERWISE ABOVE CEILING.

WATER HAMMER ARRESTOR SCHEDULE					
MARK	MANUFACTURER	MODEL	SIZE	FIXTURE UNIT CAPACITY	CONNECTION SIZE
SA-A	ZURN	Z-1700	100	1 - 11	3/4"
SA-B	ZURN	Z-1700	200	12 - 32	3/4"
SA-C	ZURN	Z-1700	300	33 - 60	1"
SA-D	ZURN	Z-1700	400	61 - 113	1"
SA-E	ZURN	Z-1700	500	114 - 154	1"
SA-F	ZURN	Z-1700	600	155 - 330	1"

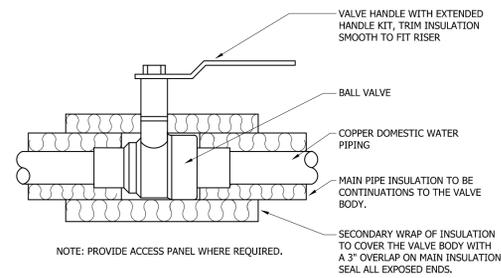
- NOTES:
- WATER HAMMER ARRESTORS HAVE BEEN SHOWN GENERALLY ON THE PIPING DIAGRAM INDICATED ON PLAN. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE INSTALLING ADDITIONAL ARRESTORS AS NECESSARY CONFORMING TO IPC, LOCAL CODE AND THE MANUFACTURER'S INSTALLATION REQUIREMENTS BASED ON THE LENGTH OF PIPE AND THE TOTAL QUANTITY OF FIXTURE UNITS ON EACH BRANCH LINE.
  - ZURN SHOCKTROLS ARRESTORS HAVE BEEN SPECIFIED. EQUAL ARRESTORS SHALL BE WATTS SS STAINLESS STEEL SERIES OR JAY R. SMITH HYDROTROLS.
  - ARRESTORS SPECIFIED ARE RATED FOR THE REQUIRED TEST PRESSURES OF THE HOT AND COLD WATER PIPING SYSTEMS. ALL ARRESTORS SHALL BE INSTALLED WHEN PIPING IS TESTED.



- NOTES:
- 1) PIPING: COPPER, STANDARD TUBE SIZE.
  - 2) REDUCE CW & HW LINE SIZES AT MIXING VALVE STATION.
  - 3) ALL PIPING TO BE INSULATED PER SPECS
  - 6) INSTALL BELOW CABINETS OR ABOVE LAY-IN CEILING WHEN CABINET/SHROUD IS NOT AVAILABLE.
  - 7) ANGLE VALVES CAN REPLACE BALL VALVES WHEN INSTALLED BELOW SINK OR LAVATORY.

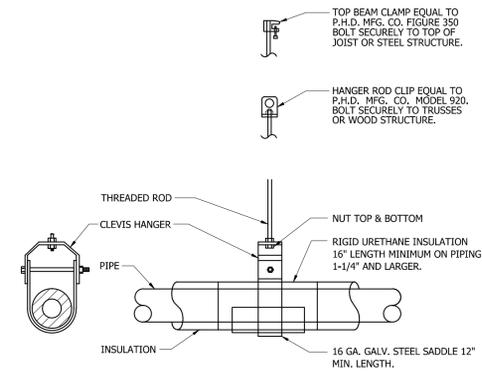
**THERMOSTATIC MIXING VALVE DETAIL (TMV-1)**

NOT TO SCALE



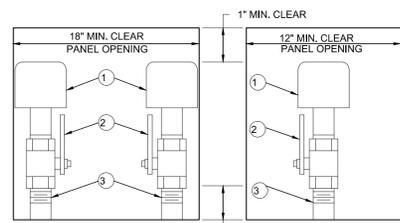
**SERVICE VALVE DETAIL**

NOT TO SCALE



**PIPE HANGER DETAIL**

NOT TO SCALE

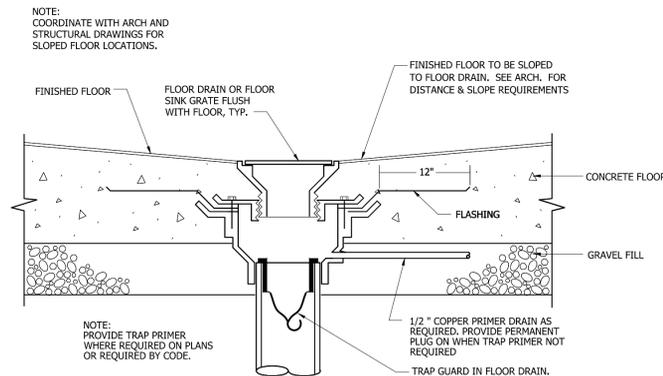


- KEY:
- 1 WATER HAMMER ARRESTOR
  - 2 BALL VALVE, SAME NOMINAL SIZE AS PIPE BRANCH IN CHASE. OPENING IN BALL VALVE TO MATCH PIPE I.D.
  - 3 PIPE SAME SIZE AS BRANCH IN CHASE TO WHICH IT IS ATTACHED.

NOTE: PROVIDE REDUCER IF REQUIRED BETWEEN VALVE AND WATER HAMMER ARRESTOR.

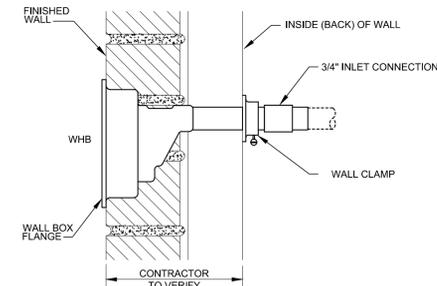
**TYPICAL WATER HAMMER PANEL INSTALLATION**

NOT TO SCALE



**FLOOR DRAIN DETAIL (FD)**

NOT TO SCALE



**WALL HYDRANT BOX (WHB)**

NOT TO SCALE

PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
AFF	ABOVE FINISH FLOOR
AP	ACCESS PANEL
DN	DOWN
V	SANITARY VENT
○	ELBOW UP, DOWN
—○—	EXISTING PIPE TO REMAIN
—CW—	DOMESTIC COLD WATER
—HW—	DOMESTIC HOT WATER
—HWR—	HOT WATER RETURN (135 DEG F)
—SAN—	SANITARY WASTE
—○—WCO	CLEANOUT - FLOOR, WALL
—○—YCO	CLEANOUT - YARD, AND ABOVE CEILING
P1	PLUMBING FIXTURE DESIGNATION

**GENERAL PLUMBING NOTES:**

- ALL EQUIPMENT AND PIPING SHALL BE INSTALLED IN COMPLIANCE WITH ALL LOCAL CODES.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER CRAFTS TO MINIMIZE SPATIAL CONFLICTS.
- OBTAIN ALL CENTERLINE DIMENSIONS FOR ROUGH-IN FROM ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS BEFORE CONSTRUCTION BEGINS, INCLUDING SEWER INV. ELEV. CONTACT ENGINEER SHOULD DISCREPANCIES OCCUR.
- REQUIRED WALL CLEANOUTS MAY NOT BE SHOWN ON PLANS BUT SHALL BE INSTALLED AS REQUIRED IN ACCORDANCE WITH PLUMBING CODE.
- PROVIDE STAINLESS STEEL ACCESS PANELS FOR ALL VALVES, SHOCK ABSORBERS CONCEALED IN WALLS THAT ARE NOT PAINTED. FOR PAINTED BLOCK & GYPSUM BOARD WALLS, PRIME AND PAINT TO MATCH SURROUNDING WALL. ACCESS BOXES/COVERS SHALL BE PER SPECS.

**M E** MIMS ENGINEERING INC.  
CONSULTING ENGINEERS  
112 SOUTH SIDE SQUARE, SUITE B  
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**ALABAMA A&M UNIVERSITY**  
**ELMORE HEALTH SCIENCE**  
**RESTROOM RENOVATION**  
**NORMAL, ALABAMA**

JOB NUMBER  
**21224**

TS / JKM / 3-11-22  
DRAWN - CHECKED - DATE

REVISIONS

SHEET TITLE  
**PLUMBING SCHEDULE, NOTES & DETAILS**

SHEET NUMBER  
**P-0.1**  
OF  
**2**





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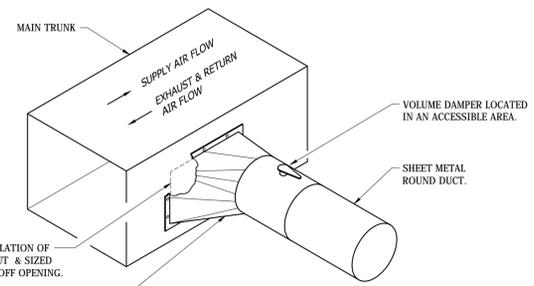
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DRAWN - CHECKED - DATE

REVISIONS


SHEET TITLE  
**MECHANICAL DEMOLITION PLAN AND FLOOR PLAN**

SHEET NUMBER  
**M-1.1**  
OF  
**2**



OPENING IN DUCT FOR INSTALLATION OF TAKE-OFF SHALL BE NEATLY CUT & SIZED FOR THE INSIDE CLEAR TAKE-OFF OPENING.  
RECTANGULAR TO ROUND TAKE-OFF WITH VOLUME DAMPER & NEOPRENE SEAL @ RECT. DUCT CONNECTION. ATTACH WITH SHEET METAL SCREWS.

RECTANGULAR TO ROUND  
**BRANCH DUCT DETAIL**  
NOT TO SCALE

EXHAUST FAN SCHEDULE			
Mark	EF-1	EF-2	
Location	Roof	Roof	
Serving	Womens Restroom 100	Men's Restroom 101	
Fan Type	Centrifugal Downblast	Centrifugal Downblast	
Blade Type	BI	BI	
Drive	Direct Drive	Direct Drive	
CFM	560	700	
HP (Watts)	.125	.125	
Static Pressure, in WG	.25	.25	
RPM	1550	1550	
Speed	10/83	10/83	
Volt/Phase	115/1/60	115/1/60	
Basis of Design	Cook	Cook	
Manufacturer	ACE-D	ACE-D	
Series	101C15D	100C15DH	
Model	1, 2, 3, 4, 5	1, 2, 3, 4, 5	
Accessories	A, B	A, B	
Notes			

**Accessories:**

- Provide a factory mounted prewired service disconnect NEMA 3R
- Provide a factory mounted prewired fan speed controller
- Provide a backdraft damper
- Provide 1/4" x 1/4" S.S. mesh bird screen
- Provide curb adapter if necessary. Confirm prior to bid.
- Provide time delay switch.

**Notes:**

- Fan shall energize via occupancy sensor in restroom with time delay switch to run 15 minutes after occupied.
- Submit color chart for Architect to select color.

GRILLE, REGISTER, & DIFFUSER SCHEDULE								
Mark	Description	Mounting	Material	Finish	Max NC Rating	Basis of Design Manuf.	Model	Accessories / Notes
EG-1	Exhaust Grille Square Louvered Face Square Neck	Surface	Aluminum	Standard Finish	30	Titus	350FL	Sq. to Rnd. Adaptor Border Type 3

**Notes:**

- Titus has been specified to establish the type and quality of air device to be installed. Equals by Price or Tuttle & Bailey will be considered.
- Air devices that are ceiling cut-in type shall be centered in the tile or at the quarter points as indicated on the drawings.
- Internal portion of duct, including square to round adapter, attached to supply, return, exhaust and transfer grilles shall be blacked out with a dull finish, non-toxic, DTM paint.
- Device color to be white.

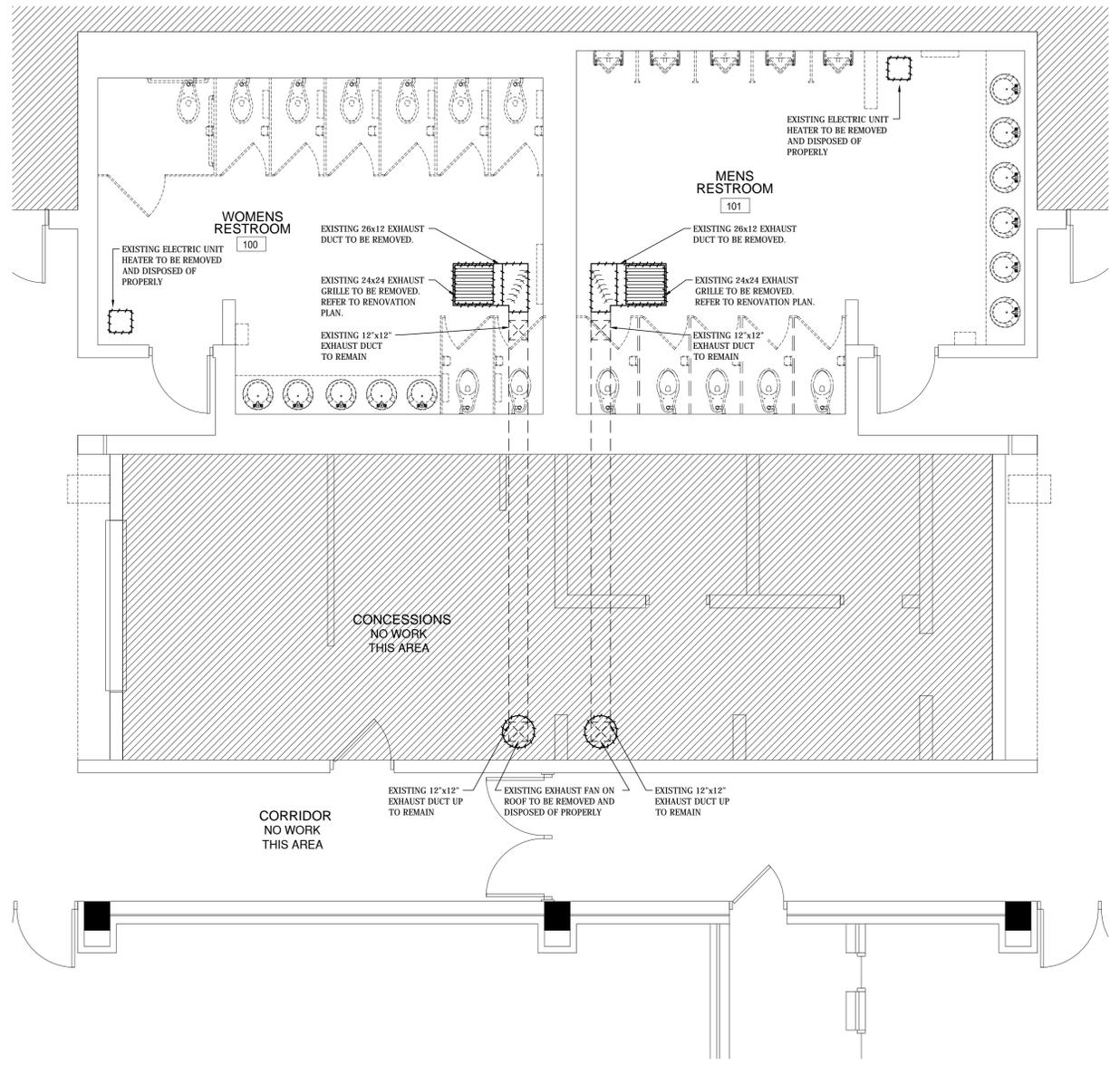
ELECTRIC UNIT HEATER SCHEDULE										
Mark	Location	kW	Volt/Ph	Amps	Mounting Type	Configuration	Height AFF	Basis of Design Manufacturer	Model	Accessories
EUH-100	Women's Restroom	4.8	277	17.3	Gyp. Ceiling	Recessed	See Arch.	Berko	QFF48483	1
EUH-101	Men's Restroom	4.8	277	17.3	Gyp. Ceiling	Recessed	See Arch.	Berko	QFF48483	1

**Accessories:**

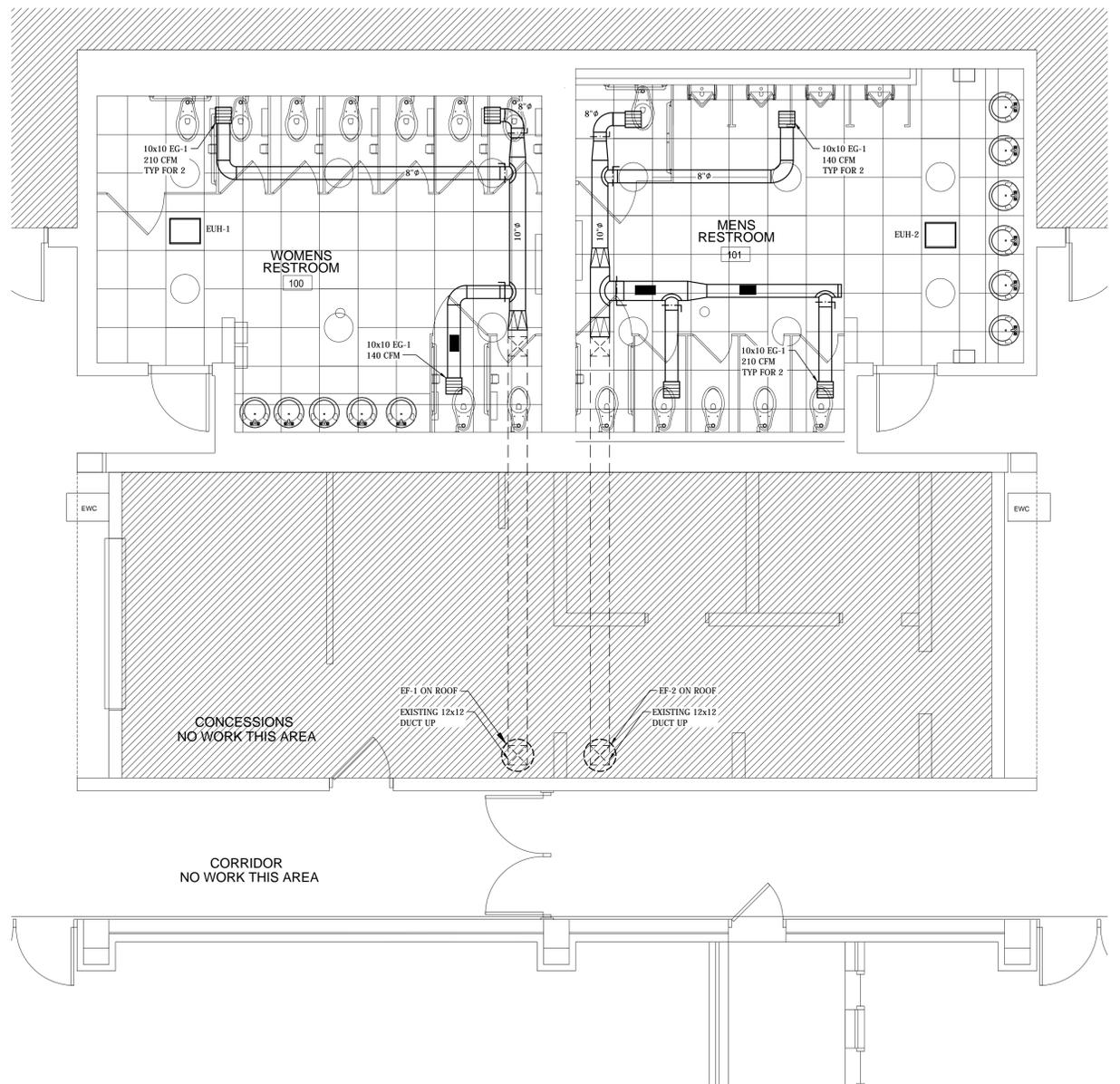
- Provide built in thermostat, disconnect switch, overheat protection, automatic fan delay, heavy duty 14-gauge front cover w/ tamper resistant screws.

**Notes:**

- Provide lay-in ceiling mounting T-bar frame kit.



**MECHANICAL DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"

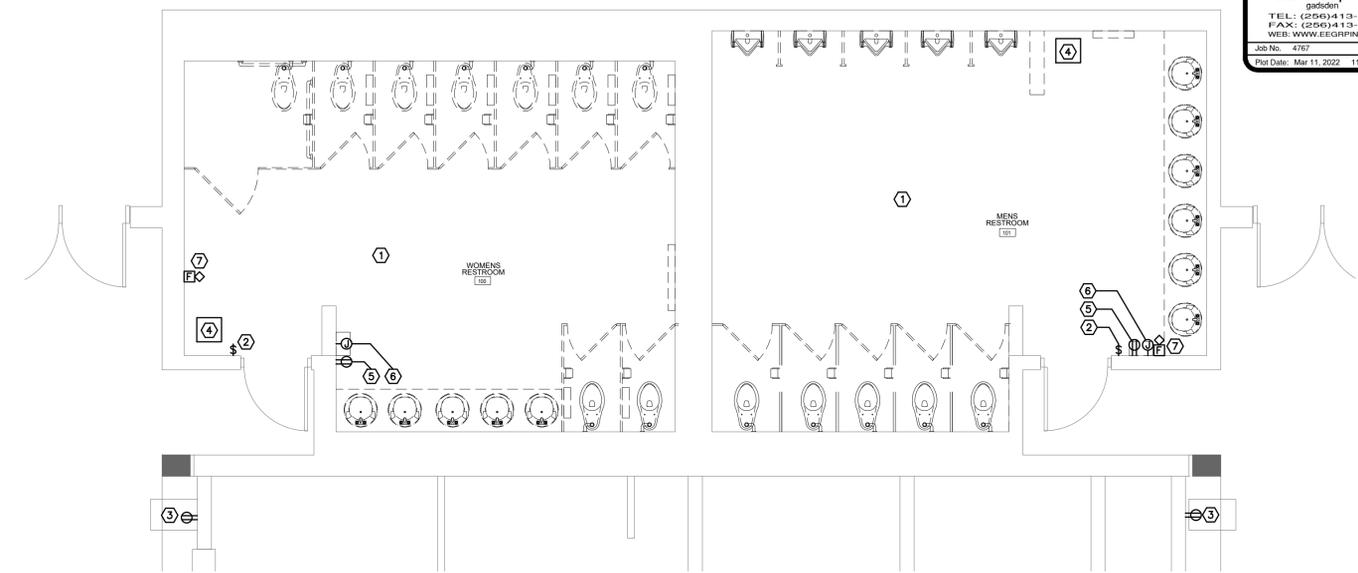


**MECHANICAL FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**PARTIAL FLOOR PLAN - DEMOLITION**  
 SCALE: 1/4" = 1'-0"

**KEYED ELECTRICAL DEMOLITION NOTES:**

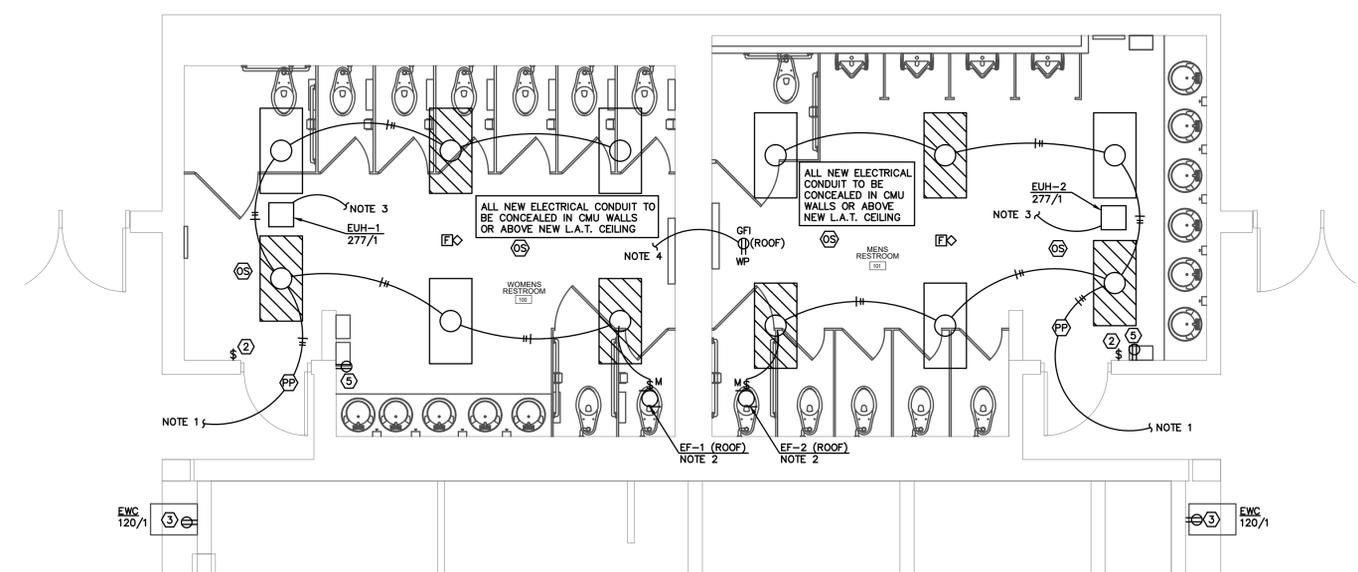
- EXISTING CEILING MOUNTED LIGHT FIXTURE AND LIGHTING CONTROLS TO BE REMOVED COMPLETE. PREPARE EXISTING UNSWITCHED CIRCUIT FOR CONNECTION TO NEW LIGHT FIXTURE AND LIGHTING CONTROLS. DISPOSE OF DEMOLISHED FIXTURE PER LOCAL, STATE AND FEDERAL GUIDELINES.
- EXISTING LIGHTING SWITCH AND ASSOCIATED SWITCH LEG WIRING TO BE REMOVED TO NEAREST JUNCTION BOX AND MADE SAFE. EXISTING BOX AND CONDUIT TO REMAIN FOR NEW LIGHTING CONTROL.
- EXISTING EWC RECEPTACLE TO BE REMOVED COMPLETE. FURNISH AND INSTALL NEW GFCI RECEPTACLE IN EXISTING BOX AND CONNECT TO EXISTING CIRCUIT AS REQUIRED.
- EXISTING 5KW 277/1 CEILING HEATER TO BE REMOVED BY OTHERS. ELECTRICAL CONTRACTOR TO DISCONNECT EXISTING CIRCUIT AND EXTEND TO NEW HEATER LOCATION AS REQUIRED.
- EXISTING RECEPTACLE TO BE REMOVED. REMOVE EXISTING DEVICE. FURNISH AND INSTALL NEW GFCI RECEPTACLE IN EXISTING BOX AND CONNECT TO EXISTING CIRCUIT AS REQUIRED. PROVIDE BOX EXTENSION AS REQUIRED FOR NEW WALL COVERING AND NEW STAINLESS STEEL FACEPLATE.
- EXISTING HAND DRYER AND ASSOCIATED BRANCH CIRCUIT TO BE REMOVED COMPLETE. FURNISH AND INSTALL BLANK PLATE AT EXISTING BOX AS REQUIRED.
- EXISTING FIRE ALARM DEVICE TO BE REMOVED COMPLETE TO EXISTING FACP. FURNISH AND INSTALL BLANK PLATE AT EXISTING BOX AS REQUIRED.



**PARTIAL FLOOR PLAN - ELECTRICAL**  
 SCALE: 1/4" = 1'-0"

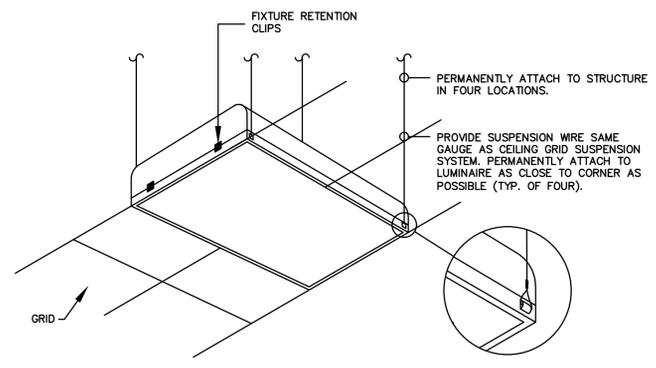
**NOTES THIS SHEET:**

- CONNECT TO EXISTING UNSWITCHED LIGHTING CIRCUIT THIS ROOM. CIRCUIT MADE AVAILABLE BY DEMOLITION.
- ELECTRICAL CONTRACTOR TO PROVIDE CONTROL POWER TRANSFORMER FOR 277V TO 120V FOR MOTOR RATED SWITCH.
- EXTEND EXISTING HEATER BRANCH CIRCUIT (MADE AVAILABLE BY DEMOLITION) FROM EXISTING HEATER LOCATION TO NEW HEATER LOCATION AND CONNECT AS REQUIRED. UNIT FURNISHED WITH INTEGRAL DISCONNECT SWITCH.
- CONNECT TO NEAREST UNSWITCHED RECEPTACLE CIRCUIT AS REQUIRED.



**ELECTRICAL LEGEND**

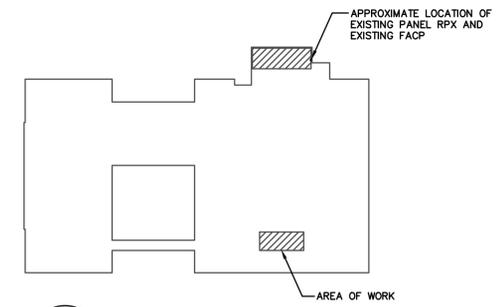
- LIGHTING**
- 2x4 LIGHTING FIXTURE, METALUX - MODEL NUMBER: 24FP4740C 4600L/42W, LED, CEILING MOUNTED
  - 2x4 EMERGENCY LIGHTING FIXTURE, METALUX - MODEL NUMBER: 24FP4740C-EL7W 4600L/42W, LED, CEILING MOUNTED, FURNISHED WITH 7W INTEGRAL BATTERY PACK
- BRANCH CIRCUITS**
- BRANCH CIRCUIT - ROUTED ABOVE CEILING OR IN WALL (SEE SPECIFICATIONS)
  - EQUIPMENT HOMERUN - NUMBER OF CIRCUITS/ CONDUCTORS AS REQUIRED, CONDUIT SIZE AS REQUIRED (3/4" MINIMUM. FURNISH AND INSTALL PER NEC REQUIREMENTS.
- POWER**
- MOTOR RATED SWITCH
  - GROUND FAULT INTERRUPTER RECEPTACLE
- LIGHTING CONTROL SYSTEMS LEGEND**
- CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR, 360° COVERAGE, LOW VOLTAGE. COORDINATE WITH ARCHITECTURAL DRAWINGS ON CEILING TYPES. LUTRON MODEL NO. LRF2-OCR2B-P-WH OR APPROVED EQUAL
  - POWER PACK WITH NO DIMMING, MOUNT ABOVE CEILING WHERE APPLICABLE, 120-277V; 16A OF LIGHTING LOAD PER POWER PACK. PROVIDE NUMBER OF POWER PACKS PER MANUFACTURERS RECOMMENDATIONS. LUTRON MODEL NO. RMJS-16R-DV-B-CCO OR APPROVED EQUAL
- FIRE ALARM LEGEND**
- CEILING MOUNTED FIRE ALARM AUDIO/ VISUAL DEVICE TO MATCH EXISTING SYSTEM. CONNECT TO EXISTING FIRE ALARM CONTROL PANEL AS REQUIRED.



**RECESSED FIXTURE SUPPORTS**  
 NOT TO SCALE

**DETAIL NOTES:**

- FIXTURE SUPPORTS SHALL BE ON ALL FOUR CORNERS AND ARE INTENDED TO SUPPORT FIXTURE INDEPENDENT OF GRID. FIXTURE SHALL BE SUPPORTED SUCH THAT FIXTURE REMAINS AT CEILING HEIGHT IF GRID IS REMOVED.
- A MINIMUM OF FOUR (4) TWISTS ARE REQUIRED ON ALL FIXTURE TIES WHERE SECURED TO FIXTURE.
- FIXTURE SHALL BE SUPPORTED WITH STRUCTURE OR UNISTRUT SUPPORTED FROM STRUCTURE. FIXTURE MAY NOT BE SUPPORTED FROM CONDUIT, CABLE TRAY OR OTHER ELEMENTS OF OTHER TRADES.



**KEYPLAN**  
 NOT TO SCALE