SECTION 00 9112 - ADDENDUM NUMBER 2

PARTICULARS

- 1.01 DATE: NOVEMBER 30, 2017
- 1.02 PROJECT: USC BARRINGER HOUSE MECHANICAL RENOVATION
- 1.03 OWNER'S PROJECT NUMBER: H27-Z335
- 1.04 OWNER: THE UNIVERSITY OF SOUTH CAROLINA
- 1.05 ARCHITECT: GMK ASSOCIATES, INC.
- **TO: PROSPECTIVE BIDDERS:**
- 2.01 THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE ORIGINAL PROCUREMENT DOCUMENTS DATED OCTOBER 25, 2017, AND ADDENDUM NUMBER 1 ISSUED NOVEMBER 28, 2017, WITH AMENDMENTS AND ADDITIONS NOTED BELOW.
- 2.02 ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE BID FORM. FAILURE TO DO SO MAY DISQUALIFY THE BIDDER.
- 2.03 THIS ADDENDUM CONSISTS OF 2 PAGES AND THE FOLLOWING ATTACHMENTS:
 - A. Drawing A6.0
 - B. Drawing A8.0
 - C. Drawing P0.0
 - D. Drawing P1.0.1
 - E. Drawing P2.0.1
 - F. Drawing P3.0.1
 - G. Drawing M1.0
 - H. Drawing M1.1
 - I. Drawing M1.2
 - J. Drawing M2.0
 - K. Drawing M2.1
 - L. Drawing M2.2
 - M. Drawing M7.1

CHANGES TO THE DRAWINGS/PROJECT MANUAL:

3.01 DRAWING A6.0 - ENLARGED PLANS AND INTERIOR ELEVATIONS

- A. Replace the existing drawing A6.0 in its entirety with the revised attached drawing A6.0.
 - 1. Doors were revised to match the door schedule.

3.02 DRAWING A8.0 - DOOR SCHEDULE, DOOR AND FRAME TYPES

- A. Replace the existing drawing A8.0 in its entirety with the revised attached drawing A8.0.
 - Door sizes were revised.

3.03 DRAWING P0.0 - PLUMBING DETAILS, GENERAL NOTES, PLUMBING LEGEND & ABBREVIATIONS

- A. Replace the existing drawing P0.0 in its entirety with the revised attached drawing P0.0.
 - 1. The Owner will construct the domestic water line to within 5'-0" of the building foundation wall. The Contractor is to connect to the Owner supplied domestic water line at 5'-0" outside of the building as indicated.

3.04 DRAWING P1.0.1 - PLUMBING DEMOLITION BELOW BASEMENT FLOOR PLAN

A. Replace the existing drawing P1.0.1 in its entirety with the revised attached drawing P1.0.1.

 The Owner will construct the domestic water line to within 5'-0" of the building foundation wall. The Contractor is to connect to the Owner supplied domestic water line at 5'-0" outside of the building as indicated.

3.05 DRAWING P2.0.1 - PLUMBING WASTE & VENT PIPING BELOW BASEMENT FLOOR PLAN

- A. Replace the existing drawing P2.0.1 in its entirety with the revised attached drawing P2.0.1.
 - The Owner will construct the domestic water line to within 5'-0" of the building foundation wall. The Contractor is to connect to the Owner supplied domestic water line at 5'-0" outside of the building as indicated.

3.06 DRAWING P3.0.1 - PLUMBING DOMESTIC WATER PIPING BELOW BASEMENT FLOOR PLAN

- A. Replace the existing drawing P3.0.1 in its entirety with the revised attached drawing P3.0.1.
 - 1. The Owner will construct the domestic water line to within 5'-0" of the building foundation wall. The Contractor is to connect to the Owner supplied domestic water line at 5'-0" outside of the building as indicated.

3.07 DRAWING M1.0 - HVAC DEMOLITION BASEMENT PLAN

- A. Replace the existing drawing M1.0 in its entirety with the revised attached drawing M1.0.
 - 1. Revisions to the demolition, ductwork and diffusers are indicated.

3.08 DRAWING M1.1 - HVAC DEMOLITION FIRST FLOOR PLAN

- A. Replace the existing drawing M1.1 in its entirety with the revised attached drawing M1.1.
 - 1. Revisions to the demolition, ductwork and diffusers are indicated.

3.09 DRAWING M1.2 - HVAC DEMOLITION SECOND FLOOR PLAN

- A. Replace the existing drawing M1.2 in its entirety with the revised attached drawing M1.2.
 - 1. Revisions to the demolition, ductwork and diffusers are indicated.

3.10 DRAWING M2.0 - HVAC RENOVATION BASEMENT PLAN

- A. Replace the existing drawing M2.0 in its entirety with the revised attached drawing M2.0.
 - 1. Revisions to the demolition, ductwork and diffusers are indicated.

3.11 DRAWING M2.1 - HVAC RENOVATION FIRST FLOOR PLAN

- A. Replace the existing drawing M2.1 in its entirety with the revised attached drawing M2.1.
 - 1. Revisions to the demolition, ductwork and diffusers are indicated.

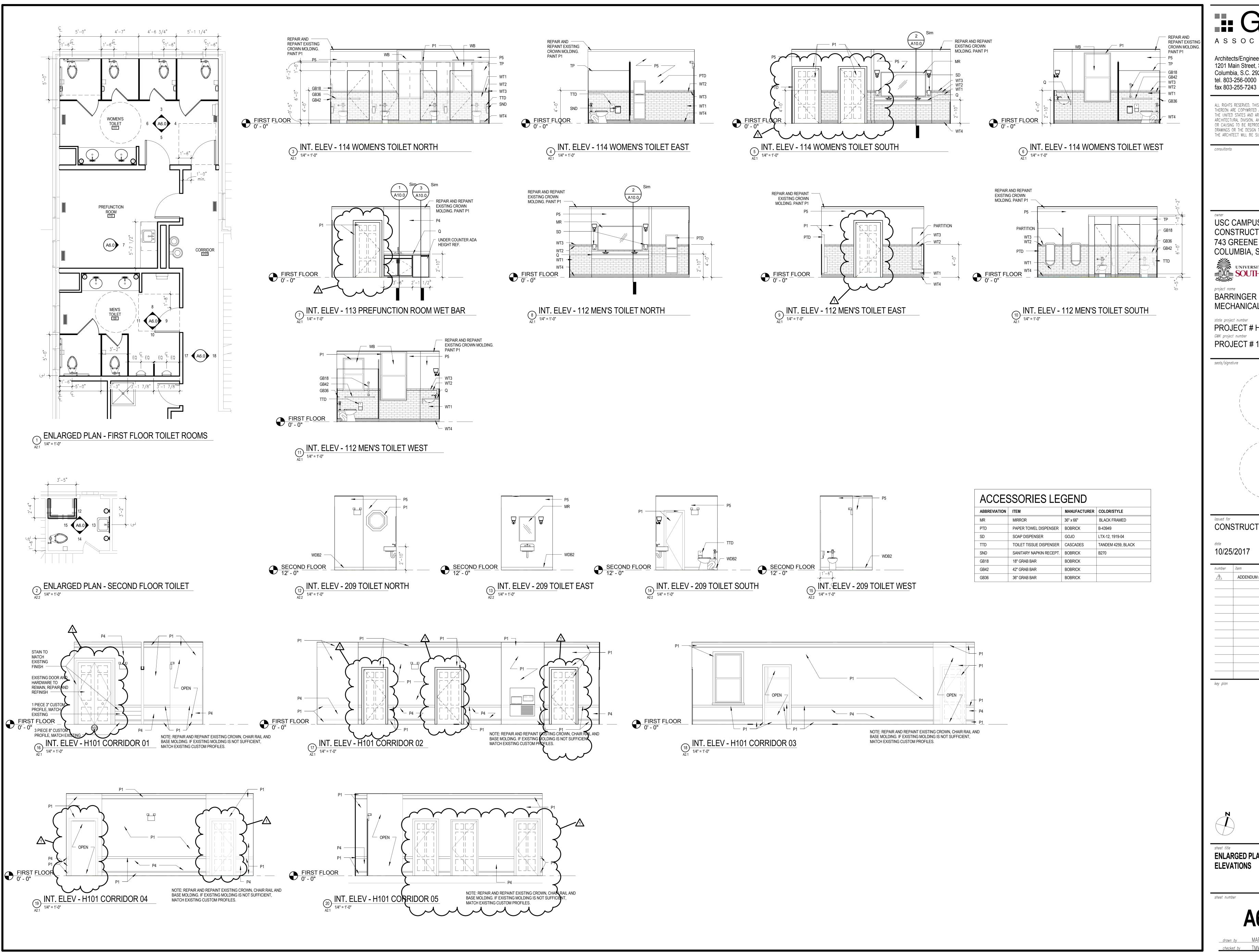
3.12 DRAWING M2.2 - HVAC RENOVATION SECOND FLOOR PLAN

- A. Replace the existing drawing M2.2 in its entirety with the revised attached drawing M2.2.
 - 1. Revisions to the demolition, ductwork and diffusers are indicated.

3.13 DRAWING M7.1 - HVAC NOTES & SCHEDULES

- A. Replace the existing drawing M7.1 in its entirety with the revised attached drawing M7.1.
 - 1. Revisions to the demolition, ductwork and diffusers are indicated.

END OF ADDENDUM NUMBER 2



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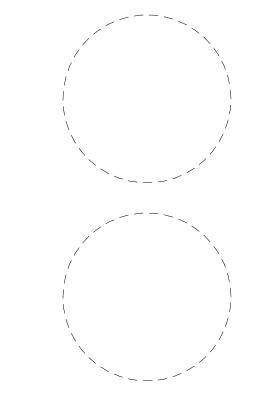
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UNIVERSITY OF SOUTH CAROLINA

BARRINGER HOUSE MECHANICAL RENOVATION state project number

PROJECT # H27-Z335 GMK project number PROJECT # 16070.02

seals/signature

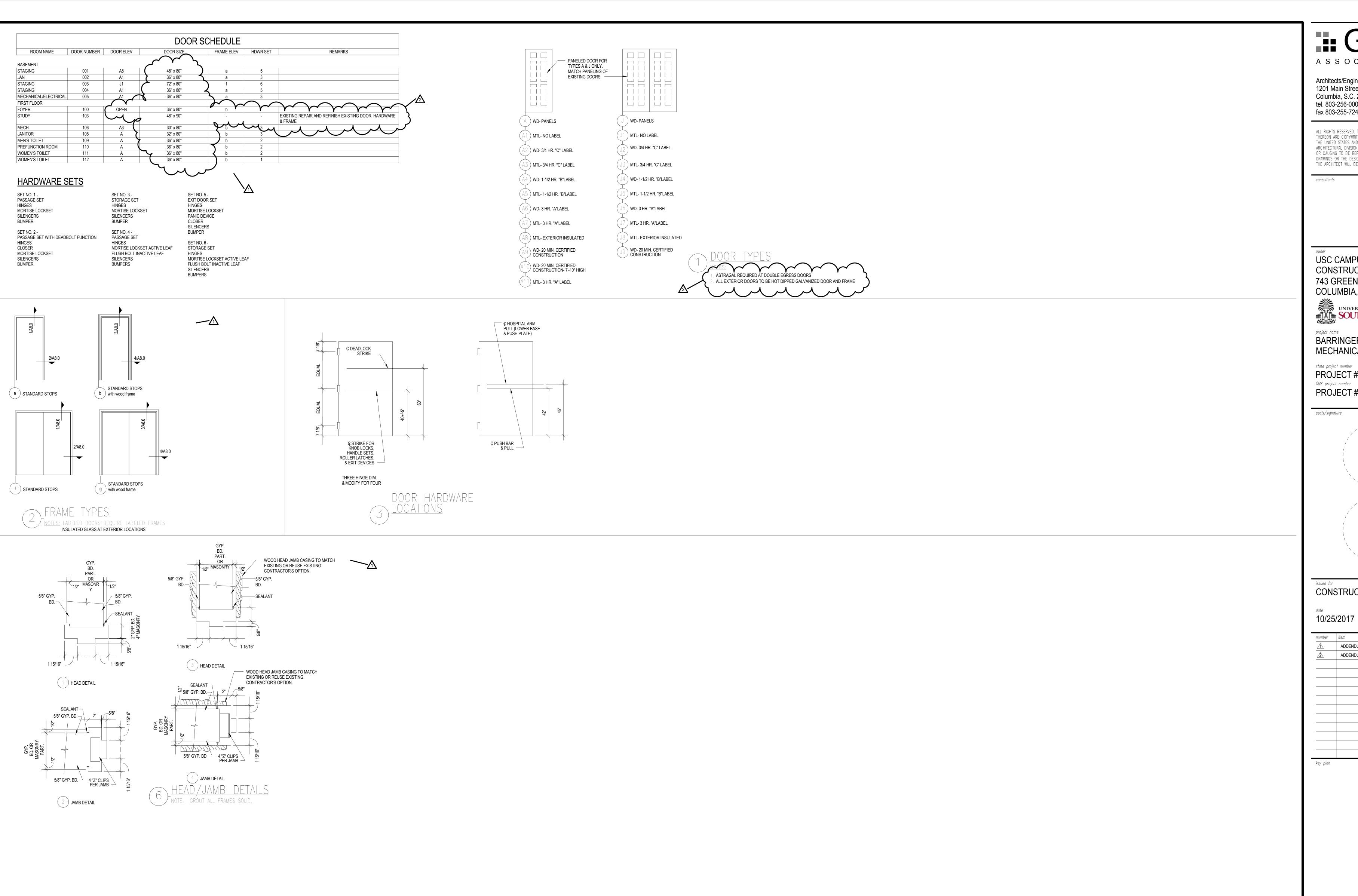


CONSTRUCTION DOCUMENTS

10/25/2017

number	item	date
<u> </u>	ADDENDUM #2	11/30/201

ENLARGED PLANS AND INTERIOR ELEVATIONS



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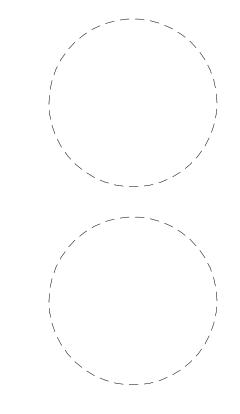
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project name BARRINGER HOUSE MECHANICAL RENOVATION

PROJECT # H27-Z335 GMK project number PROJECT # 16070.02

seals/signature



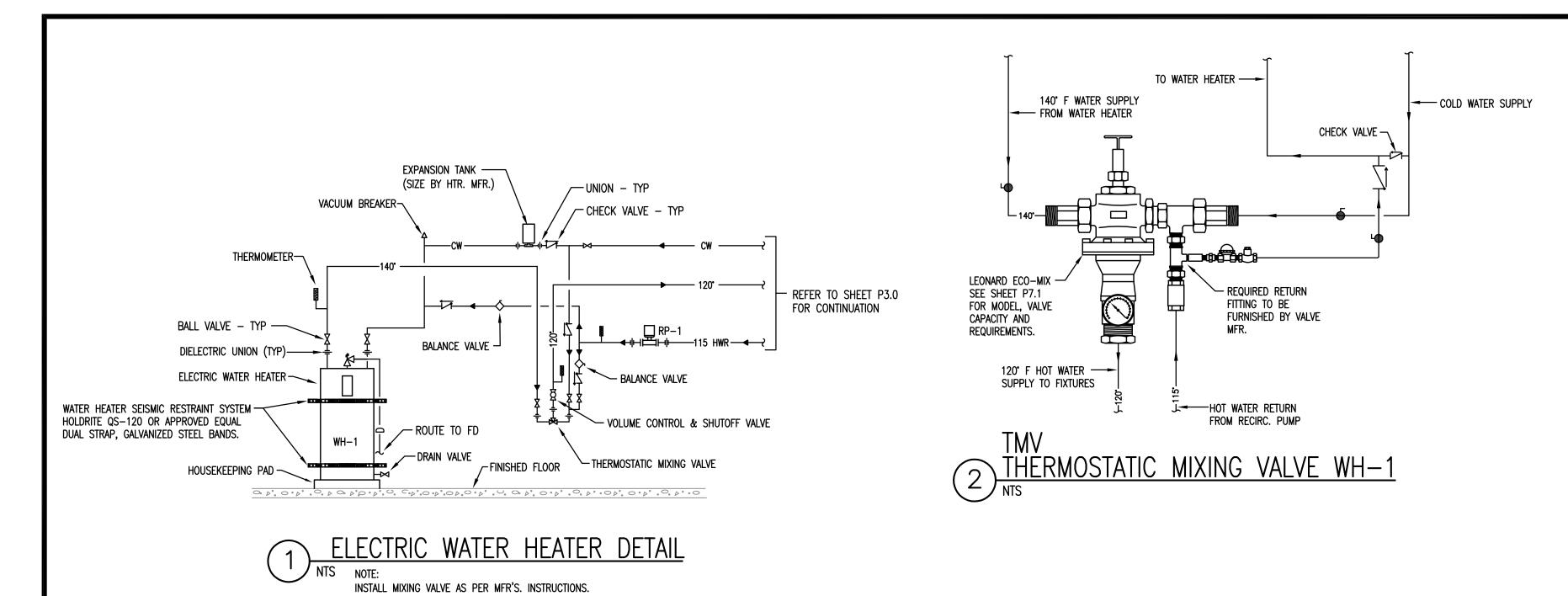
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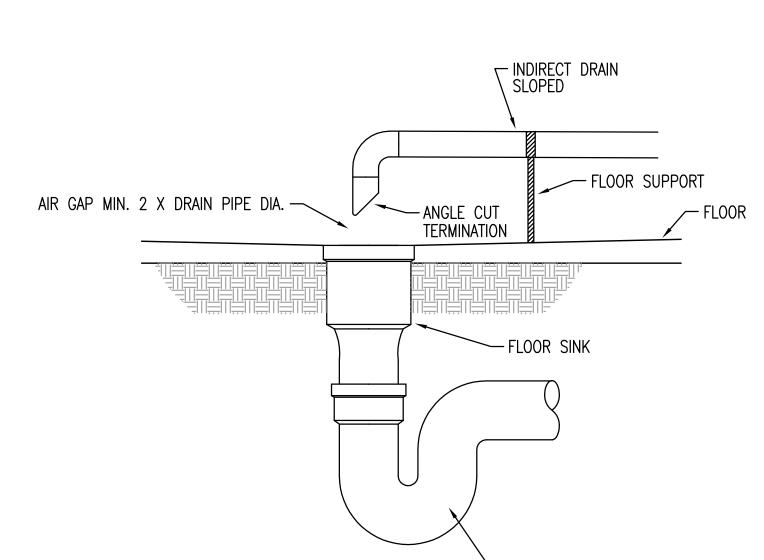
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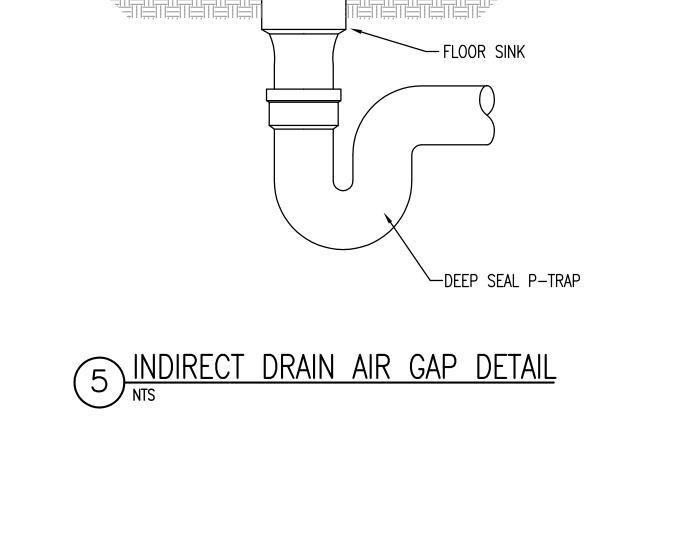
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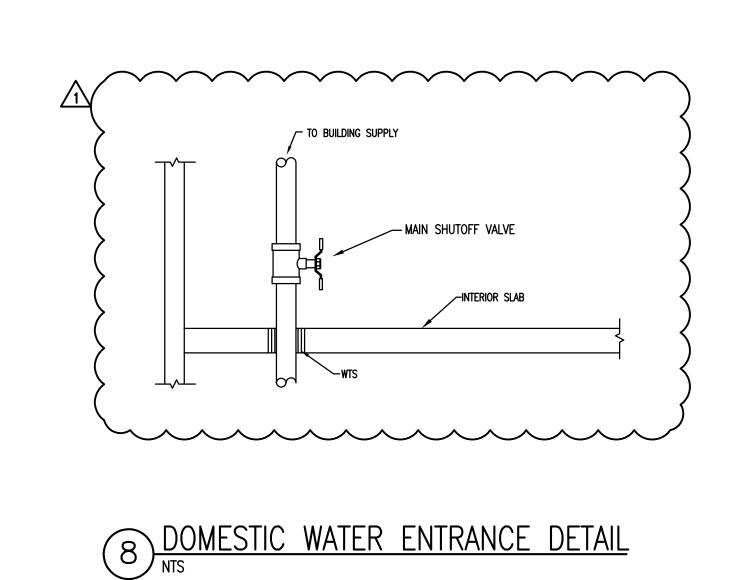


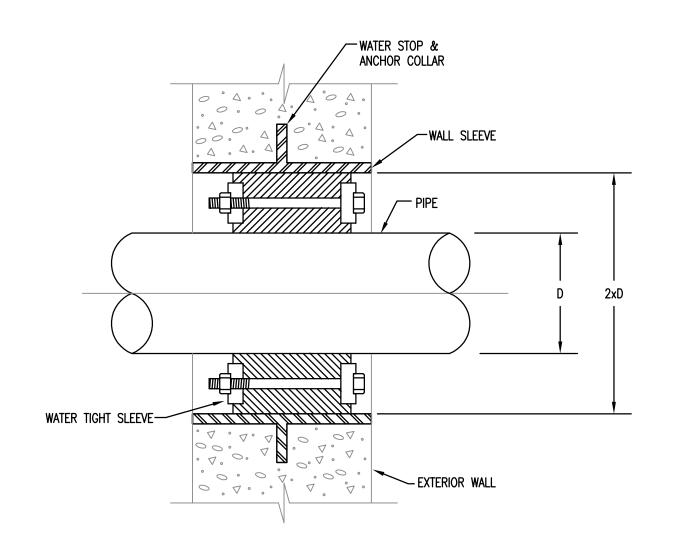
DOOR SCHEDULE, DOOR AND FRAME





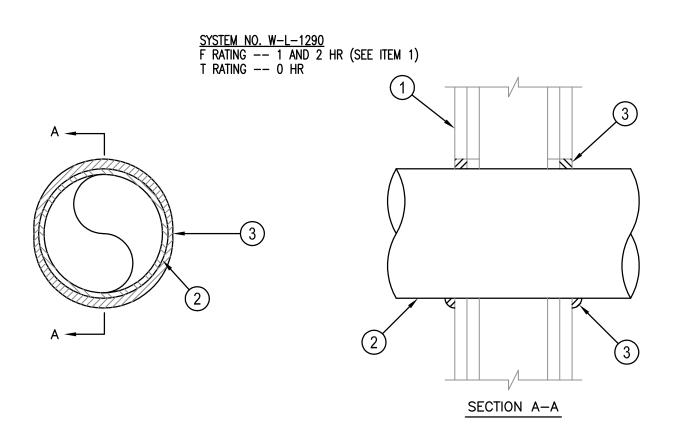






9 EXTERIOR PIPE PENETRATION DETAIL

PLUMBING LEGEND SYMBOL DESCRIPTION DESCRIPTION —> / PIPE DOWN OR DROP (DN OR DROP) COLD WATER LINE - NEW (CW) _____ COLD WATER LINE - EXISTING (CW) PIPE UP ---- CW ----PIPE BREAK OR CONTINUATION COLD WATER LINE - DEMO (CW) _____ P-TRAP $-\infty$ _____ HOT WATER LINE - NEW (HW) END CAP HOT WATER LINE - EXISTING (HW) ---- HW ----——||—— UNION _____ HOT WATER LINE - DEMO (HW) INLINE CLEANOUT ____ HOT WATER RECIRCULATING LINE - NEW (HWR) SHOCK ABSORBER & TYPE SANITARY WASTE LINE - NEW (W) BALL VALVE ---- SAN ----SANITARY WASTE LINE - EXISTING (W) ----- SAN ------SANITARY WASTE LINE - DEMO (W) POINT OF CONNECTION — NEW TO EXISTING AREA TO BE DEMOLISHED SANITARY VENT LINE - NEW (V) _____ SANITARY VENT LINE - EXISTING (V) ______ SANITARY VENT LINE - DEMO (V) _____



3 CLEANOUT TO GRADE DETAIL

__ 24" x 24" x 8" THICK RC PAD

√1/4 BEND OR COMB

"Y" & 1/8 BEND

GRADE

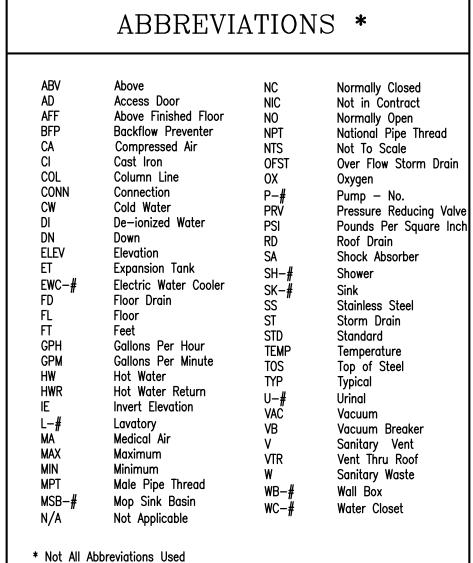
NICKEL BRONZE TOP / CLEANOUT

COVER FOR HEAVY DUTY REQUIRED -

EXTENSION - SAME SIZE AS DRAIN LINE

- 1. WALL ASSEMBLY -- THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES.
- A. STUDS —— REFER TO ARCH DETAILS FOR TYPE & CONSTRUCTION. B. GYPSUM BOARD*- -- REFER TO ARCH DETAILS FOR TYPE & CONSTRUCTION. MAX DIAM OF OPENING IS 5 IN. (THE HOURLY F & T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.)
- . THROUGH PENETRANT -- ONE METALLIC PIPE OR TUBING INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, OR TUBING MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. PIPE OR TUBE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE ANNULAR SPACE BETWEEN THE PIPE OR TUBE & PERIPHERY OF THE OPENING SHALL BE MIN 0 IN (POINT CONTACT) TO MAX 1/2 IN. THE FOLLOWING TYPES & SIZES OF METALLIC PIPES MAY BE USED: A. IRON PIPE -- NOM 4 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
- B. COPPER PIPE -- SHALL FOLLOW WL-1243 SYSTEM 3. FILL, VOID OR CAVITY MATERIAL*—SEALANT —— MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE & WALL, A MIN ½ IN DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE/WALL INTERFACE.

6 FIRE STOPPING DETAIL - METALLIC PIPE



PLUMBING GENERAL NOTES

- VERIFY EXACT LOCATION OF ALL PLUMBING FIXTURES IN OR ATTACHED TO CASEWORK WITH THE ARCHITECT AND THE MILLWORK
- SHOP DRAWINGS. COORDINATE PRIOR TO INSTALLATION. CONFIRM OR VERIFY EXACT LOCATION AND ACTUAL INVERT OF SANITARY LINES PRIOR TO INSTALLATION.
- DUE TO THE LARGE QUANTITY OF PIPING, DUCTWORK, CONDUIT, ETC. OVERHEAD, COORDINATION WITH OTHER DISCIPLINES IS
- LOCATE SHUT-OFF VALVES ABOVE CEILINGS AND IN LOCATIONS ACCESSIBLE FOR SERVICE. LOCATION SHALL COMPLY WITH THE REQUIREMENTS OF ALL CODES REFERENCED HEREIN. PROVIDE CEILING MARKERS FOR LOCATION IDENTIFICATION.
- ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL SLOPE 1/8" PER FOOT UNLESS NOTED OTHERWISE. ALL SANITARY
- DRAINAGE PIPING 2-1/2" AND SMALLER SHALL SLOPE 1/4" PER FOOT UNLESS NOTED OTHERWISE. REFERENCE PLUMBING FIXTURE CONNECTION SCHEDULE ON SHEET P7.1 FOR LINE SIZES NOT SHOWN TO FIXTURES/EQUIPMENT.
- ALL CLEANOUTS AND FLOOR DRAINS SHALL BE INSTALLED PLUMB AND LEVEL WITH FINISHED FLOOR ELEVATION.
- CONTRACTOR SHALL PROVIDE HANGERS AND SUPPORTS FOR SEISMIC RESTRAINT PER THE INTERNATIONAL BUILDING CODE. SEISMIC REPORT REQUIRED BY SEISMIC ENGINEER.
- ALL DRAINAGE PIPING AND PRESSURE SYSTEM PIPING SHALL BE RUN AS HIGH AS POSSIBLE TO BOTTOM OF STRUCTURE, UNLESS NOTED OTHERWISE. COORDINATE PIPE ROUTING WITH ALL OTHER TRADES.
- 10. THE FOLLOWING PLUMBING SYSTEMS SHALL BE INSULATED: COLD WATER, HOT WATER, HOT WATER RECIRCULATION, P-TRAPS
- AND HORIZONTAL PIPING RECEIVING CONDENSATE ABOVE CEILINGS.

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE.

- 2. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW EXACT LOCATIONS OF FIXTURES AND EQUIPMENT. ALL OFFSETS
- AND FITTINGS FOR COMPLETE INSTALLATION MAY NOT BE DEFINED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT DIMENSIONS AT THE BUILDING AND ANY NECESSARY CHANGES MADE IN ACCORDANCE WITH STRUCTURAL CONDITIONS, EQUIPMENT TO BE INSTALLED AND COORDINATION WITH OTHER SYSTEMS. IF CONFLICTS CANNOT BE RESOLVED THEY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER.
- CONTRACTOR SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS INSOFAR AS THEY APPLY: NFPA 99, 2015 IBC, PLUMBING AND MECHANICAL CODES.
- 4. CONTRACTOR SHALL SECURE ALL PERMITS, INSPECTIONS, LICENSES AND TESTS REQUIRED FOR THIS WORK AND PAY ALL FEES IN CONNECTION THEREWITH.
- 15. ALL MATERIALS SHALL BEAR THE MANUFACTURER'S NAME, TRADE NAME AND BE U.L. LABELED IF REQUIRED BY CODE. UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. ALL EQUIPMENT OF A SIMILAR TYPE SHALL BE OF THE SAME MANUFACTURER.

. CONTRACTOR SHALL LOCATE AND SIZE ALL OPENINGS REQUIRED FOR PLUMBING EQUIPMENT AND PIPING; AND PROVIDE THIS

- INFORMATION TO THE GENERAL CONTRACTOR IN TIME NOT TO DELAY BUILDING CONSTRUCTION. 17. CONTRACTOR SHALL PROVIDE AND LOCATE SLEEVES AND INSERTS REQUIRED BEFORE THE FLOOR AND WALLS ARE BUILT OR SHALL BE RESPONSIBLE FOR THE COST OF CUTTING AND PATCHING REQUIRED FOR PIPES WHERE SLEEVES AND INSERTS WERE NOT
- B. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR OR OF THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO PERFORM THE CONSTRUCTION WORK IN ACCORDANCE WITH THE DRAWINGS.
- 19. ALL WALL HUNG FIXTURES AND FLOOR MOUNTED MOP SINKS SHALL BE SEALED BETWEEN WALL AND FIXTURES WITH WHITE SILICONE CAULKING.
- 20. ALL COUNTER MOUNTED FIXTURE RIMS SHALL BE SEALED WITH SILICONE CAULKING.
- 21. LOCATE FLOOR CLEANOUTS PAST LIMITS OF THE CASEWORK.

INSTALLED OR WHERE THEY WERE INCORRECTLY LOCATED.

- 22. CONTRACTOR SHALL MAKE PROVISIONS FOR EXPANSION LOOPS WHERE NECESSARY WHETHER OR NOT SHOWN ON DRAWINGS.
- 23. OFFSET PLUMBING VENTS AND WATER PIPING AS NECESSARY TO AVOID CONFLICTS WITH DUCTWORK. SEE HVAC PLANS.
- 24. IT IS THE INTENT AND MEANING OF THE DRAWINGS TO PROVIDE COMPLETE AND OPERABLE PLUMBING AND DRAINAGE SYSTEMS.
- 25. ALL PLUMBING LINE SIZE REDUCTIONS SHALL BE MADE WITH REDUCERS AND/OR REDUCING FITTINGS.

Pounds Per Square Inch

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BARRINGER HOUSE MECHANICAL

CONSTRUCTION

RENOVATION

State project number

GMK project number

PROJECT # H27Z335

PROJECT # 16070.02

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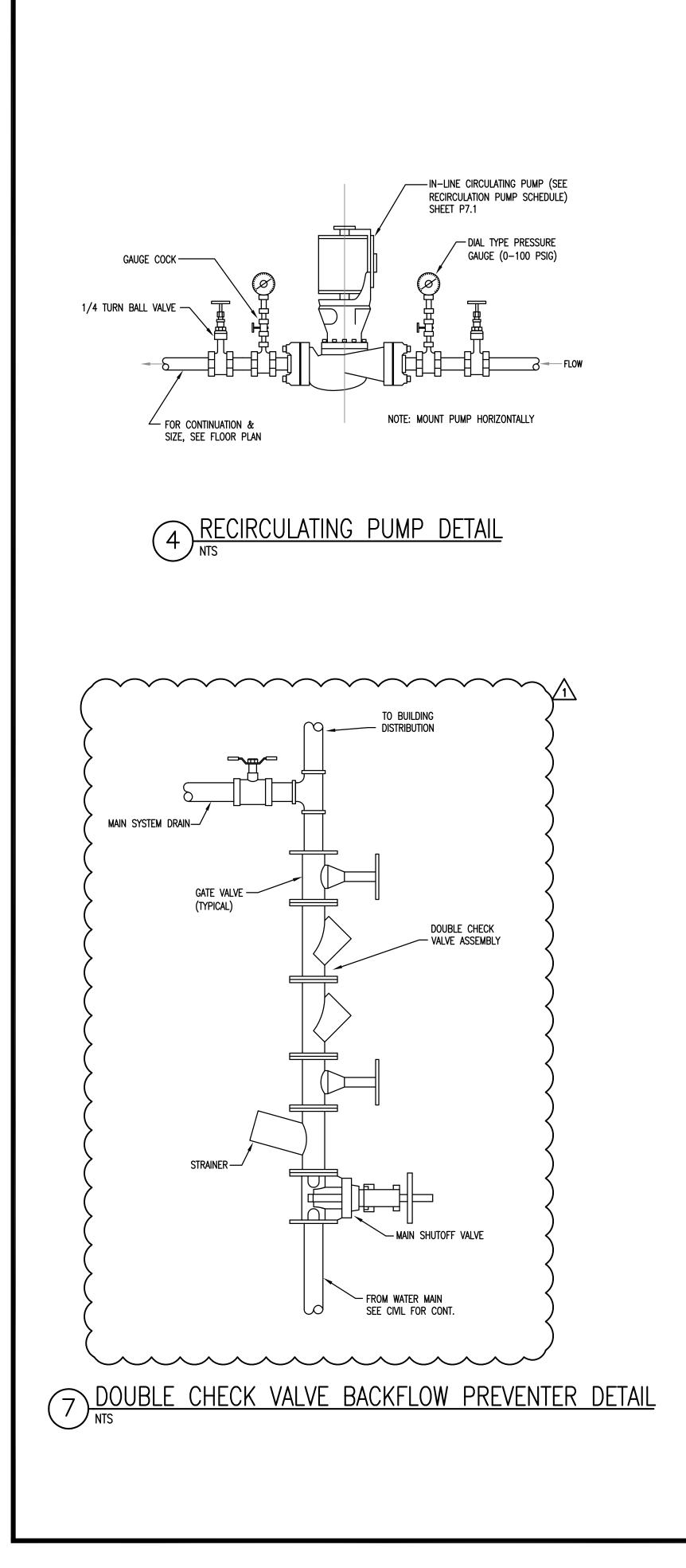
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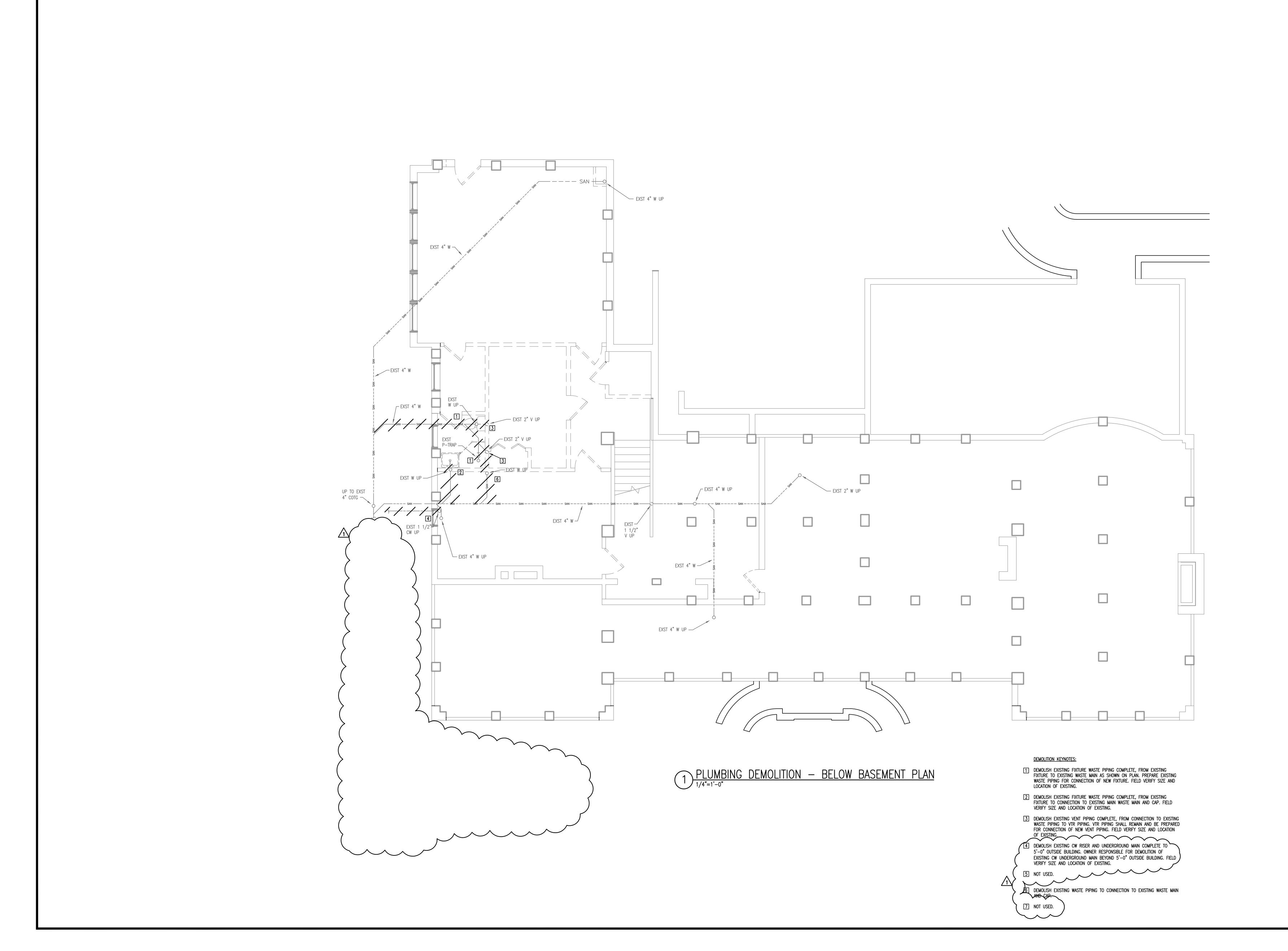
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PLUMBING DETAILS, GENERAL NOTES, PLUMBING LEGEND & ABBREVIATIONS

sheet number







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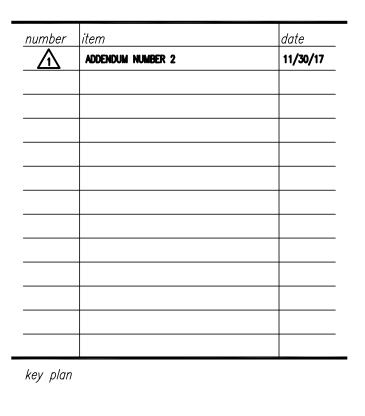
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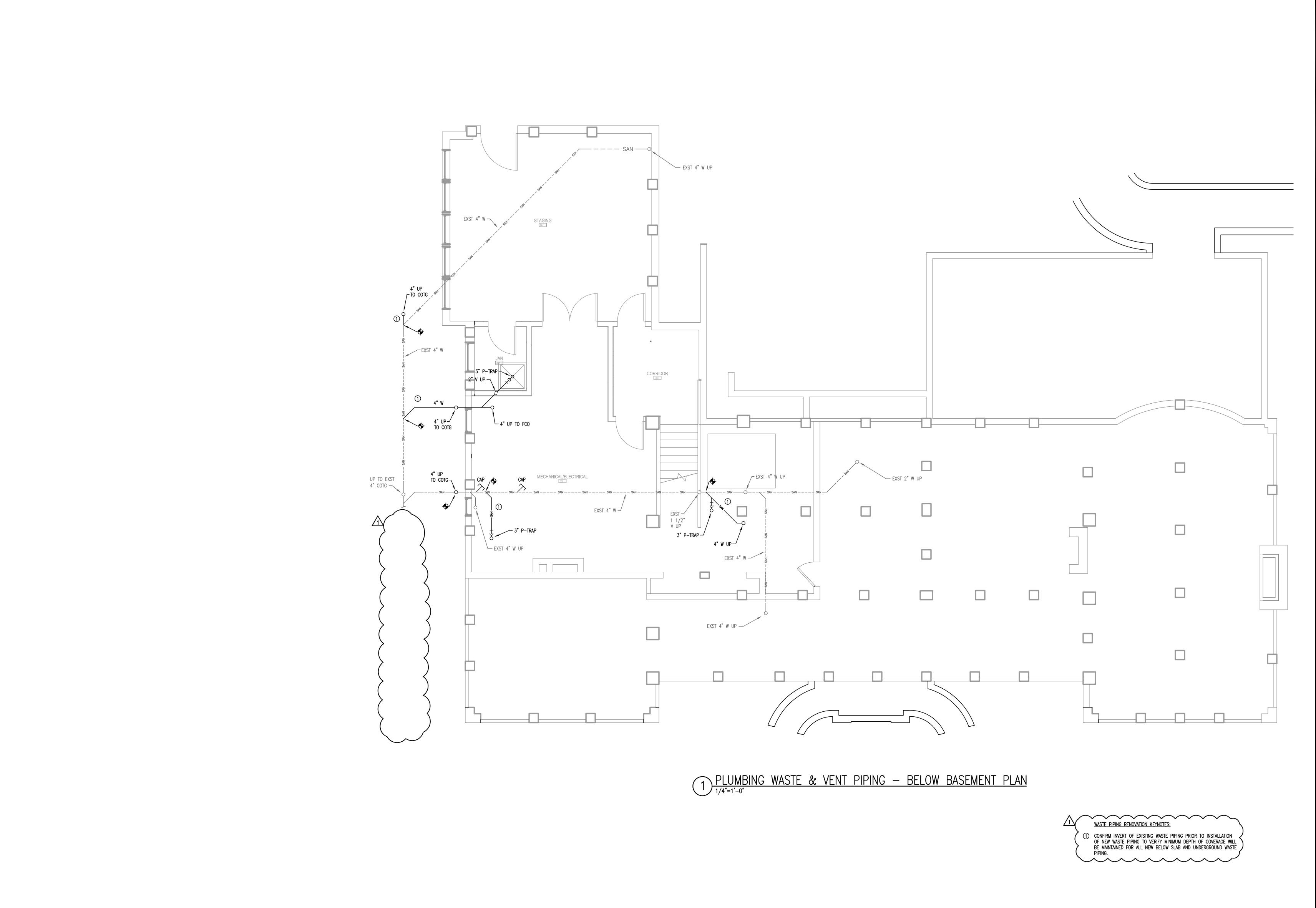


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PLUMBING DEMOLITION
BELOW BASEMENT FLOOR PLAN

sheet number

P1.0.1



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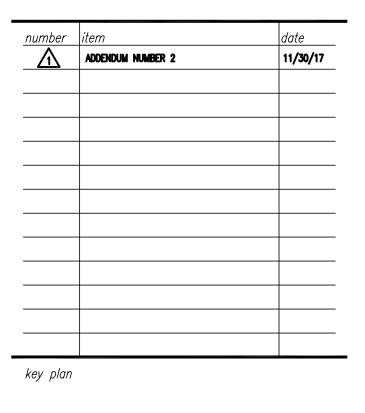
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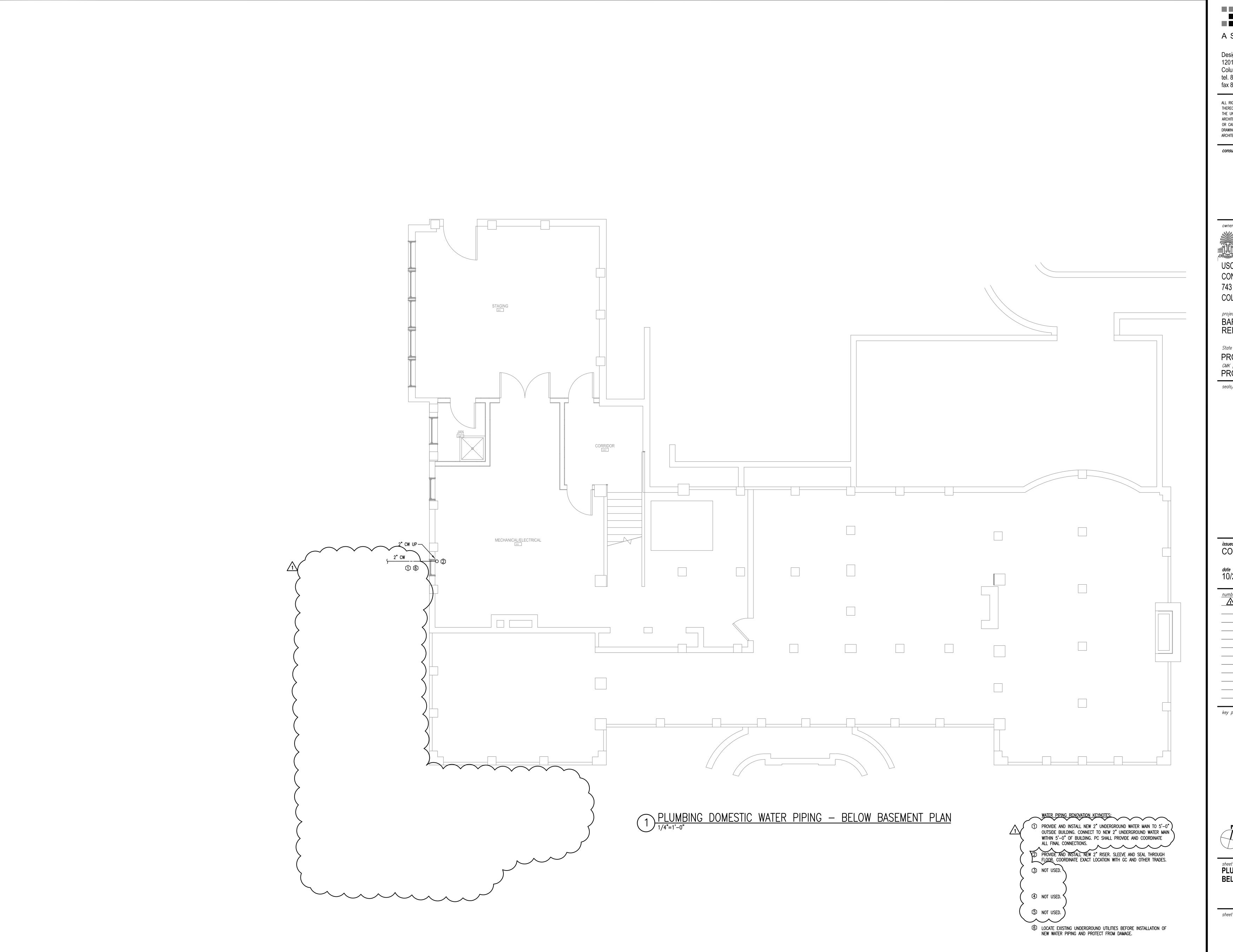


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PLUMBING WASTE & VENT PIPING BELOW BASEMENT FLOOR PLAN

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P2.0.



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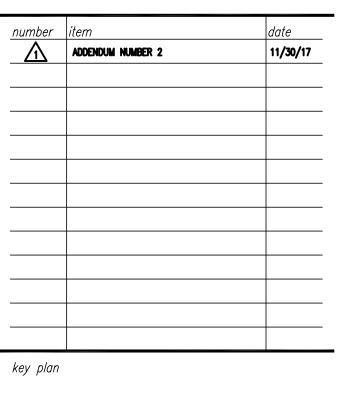
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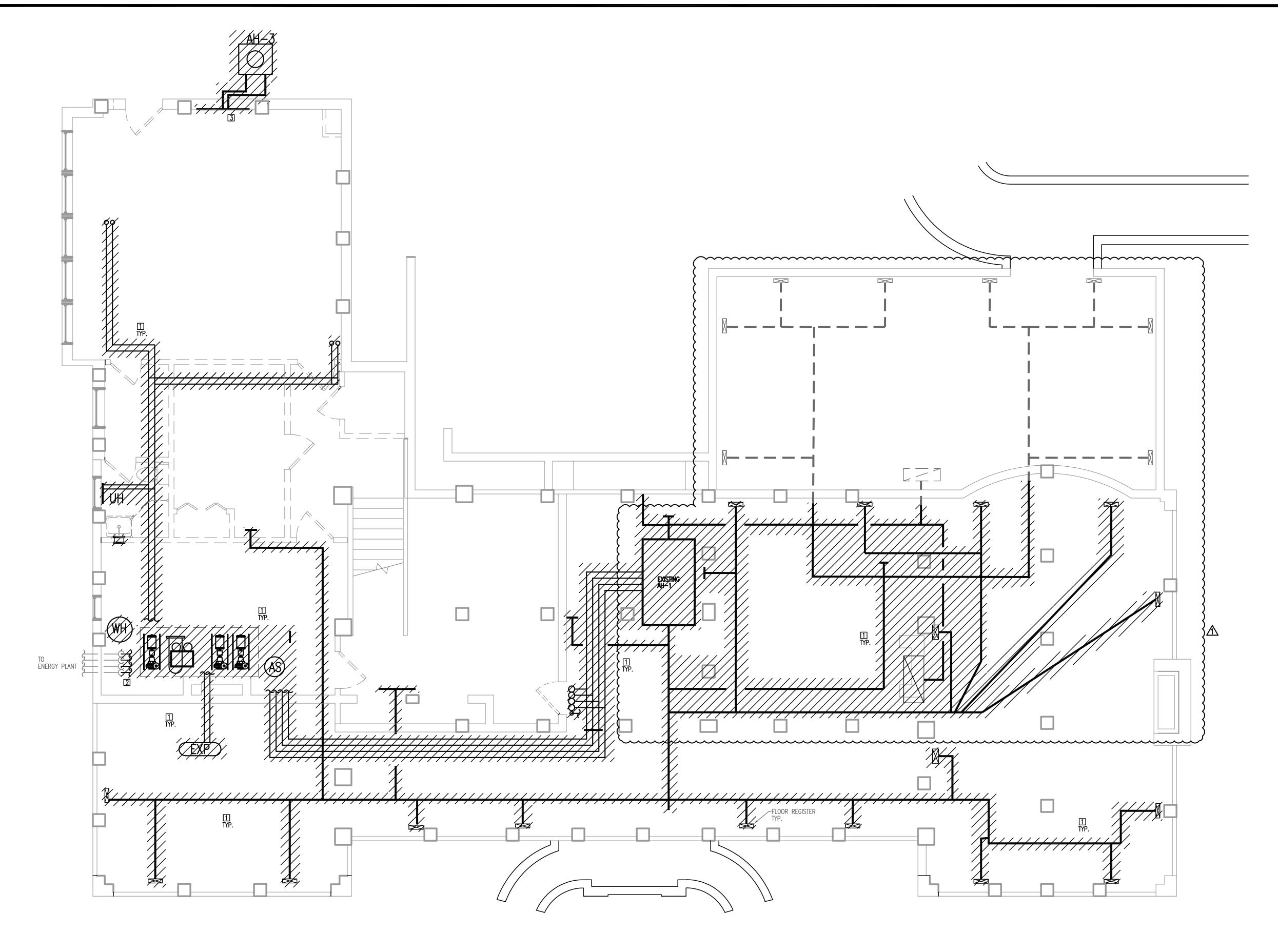
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PLUMBING DOMESTIC WATER PIPING BELOW BASEMENT FLOOR PLAN

sheet number

P3.0.1



1 BASEMENT FLOOR LEVEL - HVAC DEMOLITION

DEMOLITION KEYNOTES:

[1] REMOVE ALL EXISTING EQUIP, DUCTWORK AND PIPING. CONTRACTOR
SHALL FIELD VERIFY EXTENT OF DEMOLITION PRIOR TO BIDDING.

[2] ISOLATE STEAM LINE AT NEAREST MANHOLE AND CAP EXISTING STEAM SUPPLY AND CONI

PIPE AT THIS APPROXIMATE LOCATION REMOVE EXISTING PACKAGED UNIT AND ASSOCIATED DUCTWORK. COORDINATE PATCHING C PENETRATION WITH ARCHITECTURAL



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BARRINGER HOUSE MECHANICAL RENOVATION

State project number PROJECT # H27Z335 GMK project number PROJECT # 16070.02

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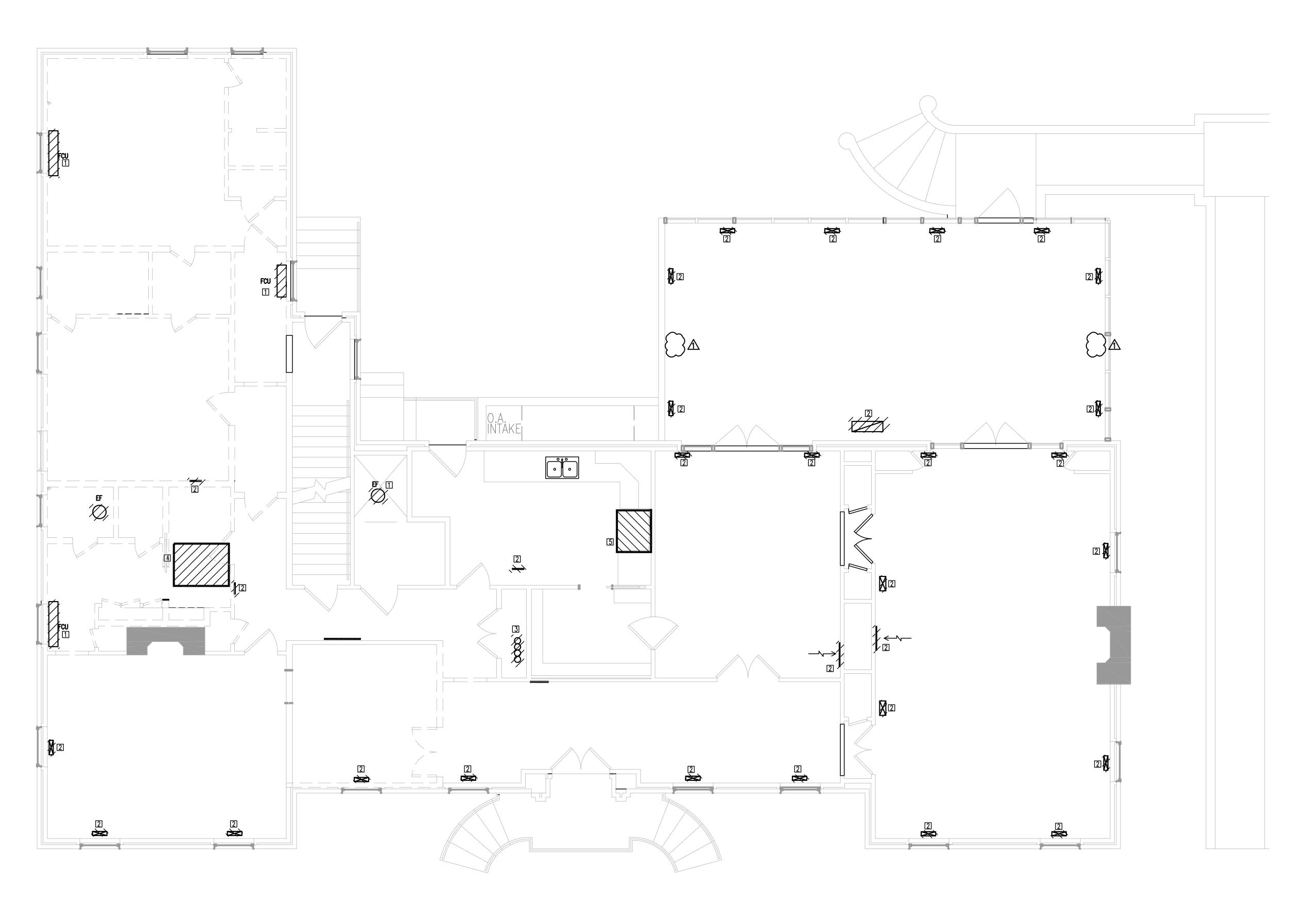
CONSTRUCTION DOCUMENTS

^{date} 10/25/2017

number item
ADDENDUM #2 key plan

sheet title
HVAC
DEMOLITION
BASEMENT PLAN

sheet number



1 FIRST FLOOR LEVEL - HVAC DEMOLITION

DEMOLITION KEYNOTES:

1 REMOVE EXISTING EQUIP, DUCTWORK AND PIPING. CONTRACTOR SHALL FIELD VERIFY EXTENT OF DEMOLITION PRIOR TO BIDDING.

2 REMOVE EXISTING FLOOR OR WALL GRILLE

3 REMOVE EXISTING PIPING IN CHASE FROM BASEMENT TO ATTIC AND PATCH OPENINGS. COORDINATE WITH ARCH.

4 REMOVE VENTILATION FAN AND ALL APPURTENANCES LOCATED IN ATTIC.

5 REMOVE KITCHEN HOOD, EXHAUST FAN AND ALL ASSOCIATED DUCTWORK. CAP AT TERMINATION TO OUTDOORS.

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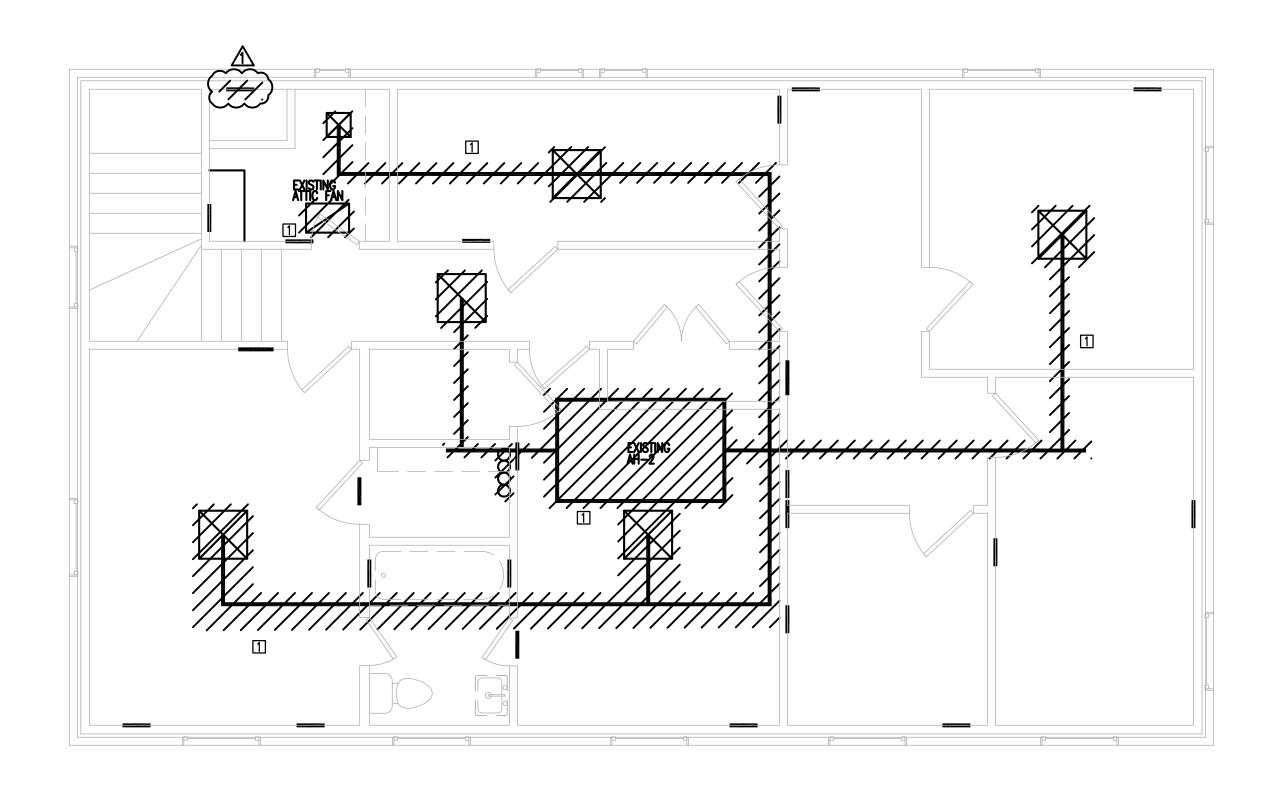
number item
ADDENDUM NUMBER 2

key plan



sheet title
HVAC
DEMOLITION
FIRST FLOOR PLAN

sheet number



1 SECOND FLOOR PLAN — HVAC DEMOLITION 1/4"=1'-0"

DEMOLITION KEYNOTES:

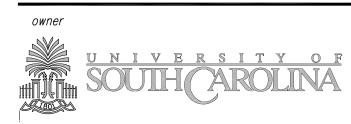
[1] REMOVE ALL EXISTING EQUIP, DUCTWORK AND PIPING. CONTRACTOR SHALL FIELD VERIFY EXTENT OF DEMOLITION PRIOR TO BIDDING.



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USC CAMPUS PLANING AND
CONSTRUCTION
743 GREENE STREET
COLUMBIA, SOUTH CAROLINA 29208

project name
BARRINGER HOUSE MECHANICAL
RENOVATION

State project number
PROJECT # H27Z335

GMK project number
PROJECT # 16070.02

seals/signature

issued for CONSTRUCTION DOCUMENTS

^{date} 10/25/2017

ADDENDUM #1	date date
TODE TOOM #1	11/30/17

kev plan

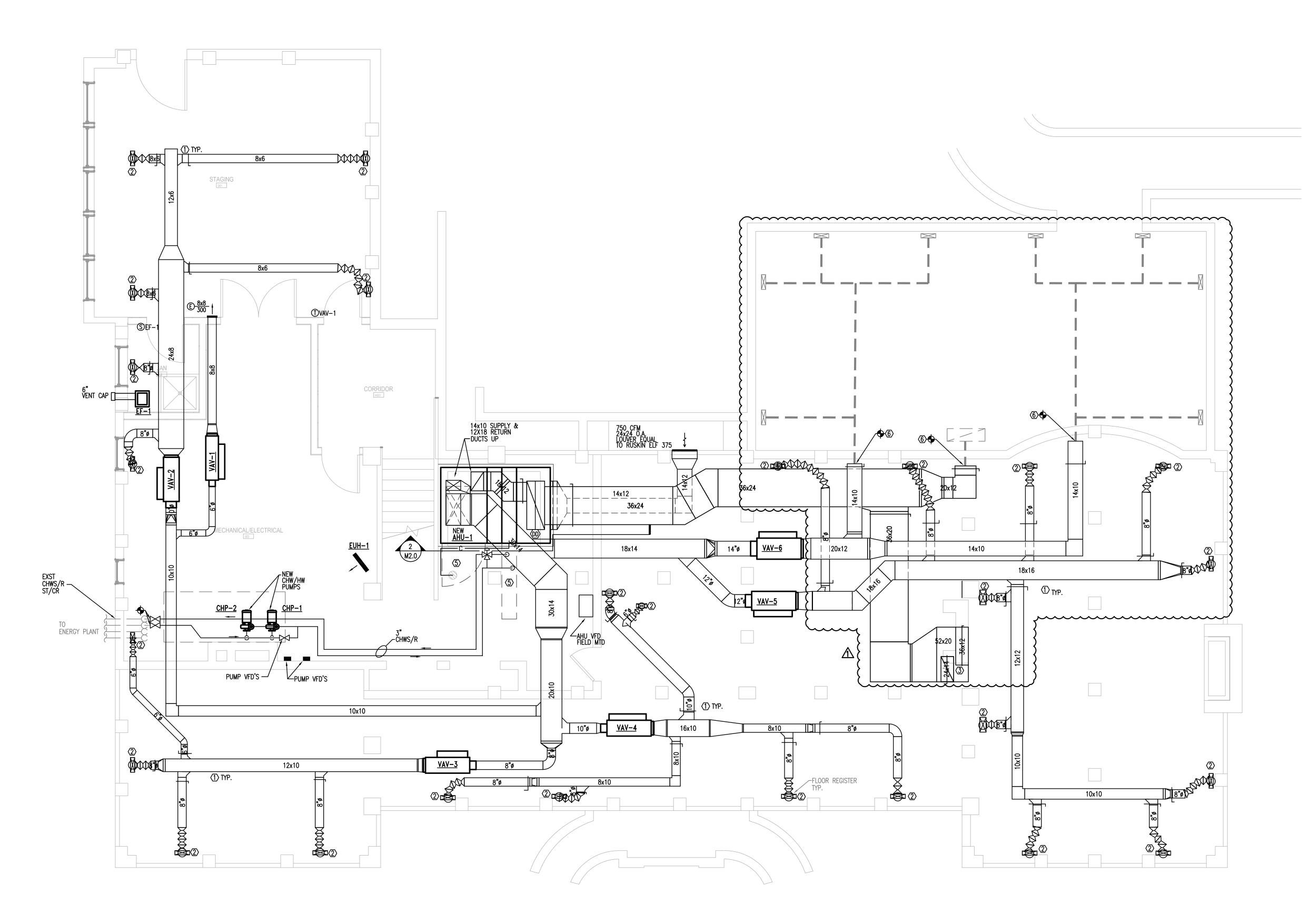


sheet title
HVAC
DEMOLITION
SECOND FLOOR PLAN

sheet number

M1.2

drawn by XXX



1 BASEMENT FLOOR LEVEL - HVAC RENOVATION

RENOVATION KEYNOTES:
INSTALL ALL DUCTWORK AND EQUIPMENT AS HIGH AS POSSIBLE AND TIGHT TO THE FLOOR JOISTS.

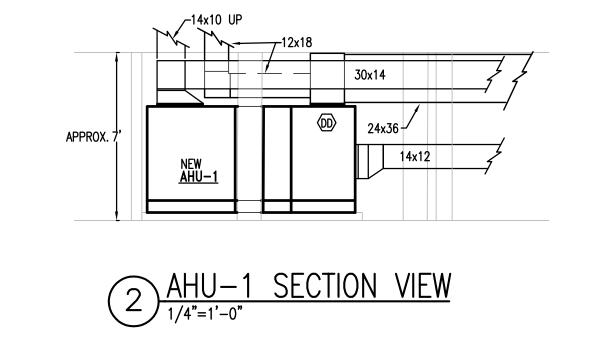
DUCT UP TO FLOOR GRILLE ABOVE. PROVIDE FLEX DUCT AND TRANSITION AS REQUIRED FOR INSTALLATION.

CONNECT RETURN DUCT UP TO 36x12 & 24x14 RETURN AIR RISERS.

CONNECT RETURN DUCT UP TO RETURN GRILLE.

INSTALL UNIT WITH ADEQUATE CLEARANCE FOR ACCESS DOORS AND COIL PULL

CONNECT TO EXISTING DUCT. TRANSITION AS REQUIRED.





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743 GREENE STREET
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BARRINGER HOUSE MECHANICAL RENOVATION

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number	item	date
Λ	ADDENDUM #2	11/30/

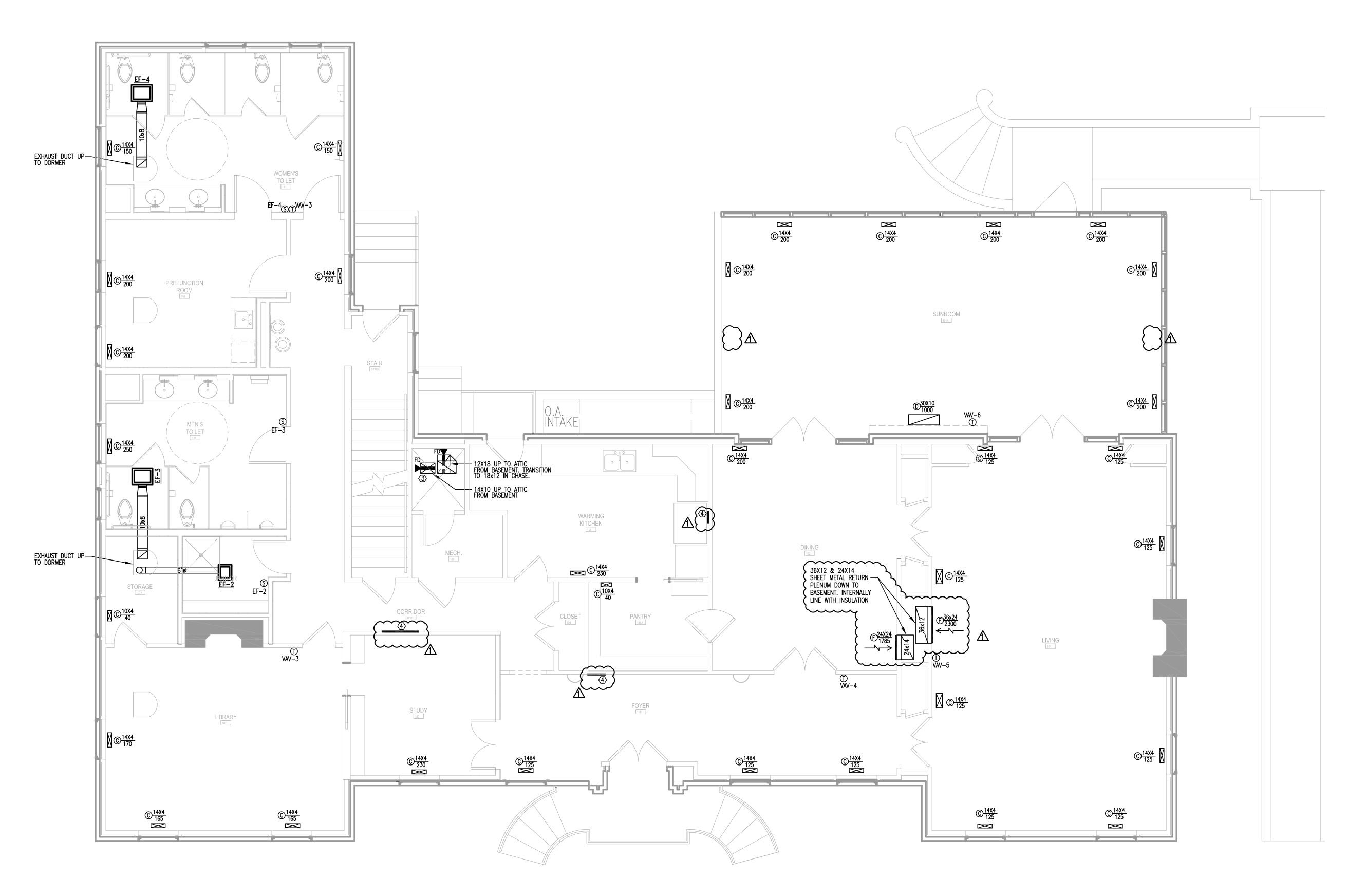


sheet title
HVAC
RENOVATION
BASEMENT PLAN

sheet ni

M2.0

drawn by XXX
checked by XXX



1) FIRST FLOOR LEVEL - HVAC RENOVATION

RENOVATION KEYNOTES:

(1) INSTALL ALL DUCTWORK AND EQUIPMENT AS HIGH AS POSSIBLE AND TIGHT TO THE FLOOR JOISTS.

(2) DUCT UP TO FLOOR GRILLE ABOVE. PROVIDE FLEX DUCT AND TRANSITION AS REQUIRED FOR INSTALLATION. COORDINATE LOCATION OF NEW FLOOR GRILLES WITH EXISTING FLOOR JOISTS.

(3) NEW DUCT FROM BASEMENT TO ATTIC. COORDINATE PENETRATIONS WITH FLOOR JOISTS. INSTALL FIRE DAMPERS AT FLOOR LEVEL WHERE DUCT ENTERS SHAFT FROM BASEMENT.

(4) EXISTING GRILLE TO BE ABANDONED IN PLACE. CONTRACTOR SHALL CAP DUCT AS NEAR AS POSSIBLE TO GRILLE. IF DUCT IS CAPPED DIRECTLY BEHIND GRILLE FACE. SHEET METAL CAP MUST BE PAINTED BLACK SO AS NOT TO BE VISIBLE.



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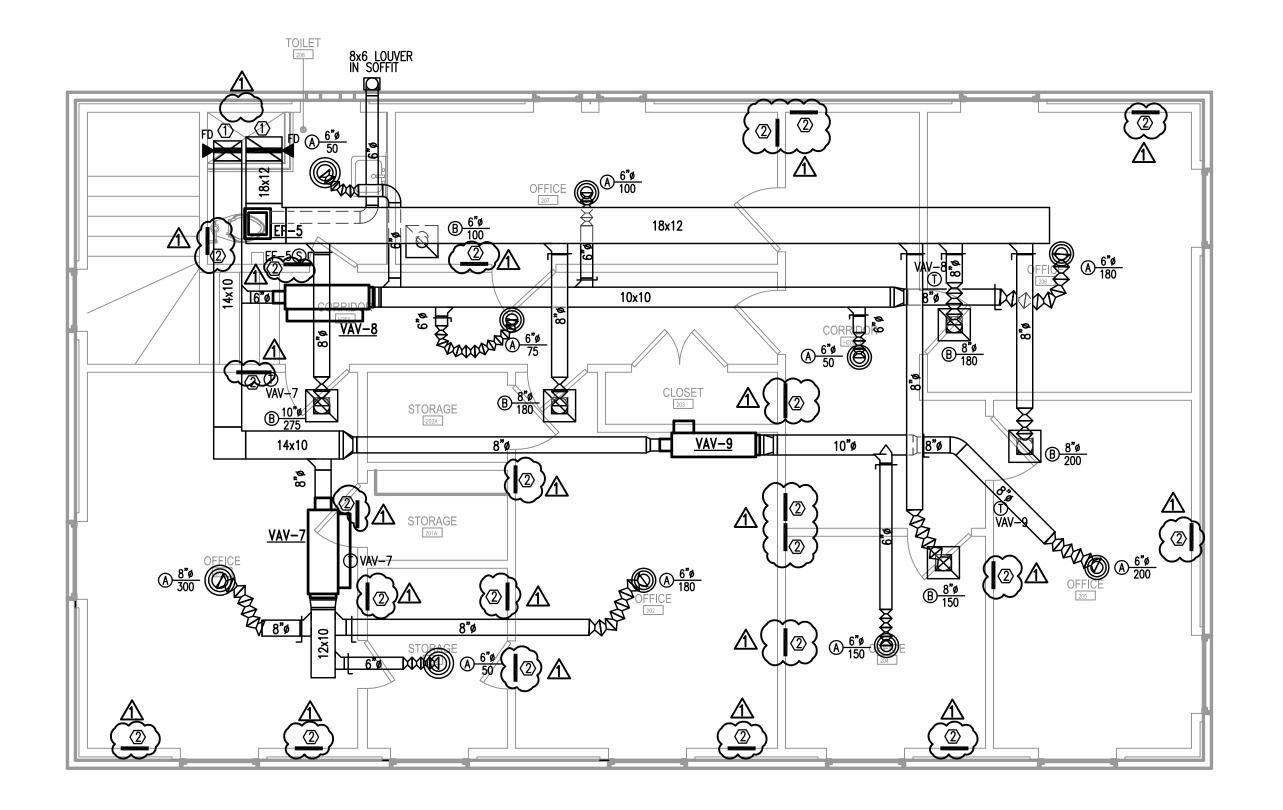


sheet title
HVAC
RENOVATION
FIRST FLOOR PLAN

sheet number

M2.1

drawn by XXX



1 SECOND FLOOR LEVEL - HVAC RENOVATION

RENOVATION KEYNOTES:

(1) NEW DUCT UP FROM BELOW. INSTALL FIRE DAMPER
WHERE DUCTS LEAVE CHASE IN ATTIC

(2) EXISTING GRILLE TO BE ABANDONED IN PLACE. CONTRACTOR SHALL CAP DUCT
AS NEAR AS POSSIBLE TO GRILLE. IF DUCT IS CAPPED DIRECTLY BEHIND
GRILLE FACE. SHEET METAL CAP MUST BE PAINTED BLACK SO AS NOT TO BE
VISIBLE.



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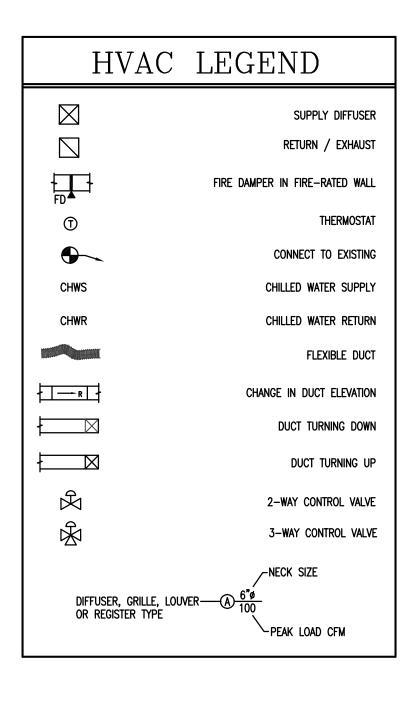


sheet title
HVAC
RENOVATION
SECOND FLOOR PLAN

sheet number

M2₋₂

drawn by XXX
checked by XXX



MECHANICAL DEMOLITION NOTES

- DRAWINGS SHOW GENERAL INTENT OF DEMOLITION. QUANTITIES, LOCATIONS, SIZES AND EQUIPMENT ARE SHOWN TO INDICATE TYPE OF SYSTEM INSTALLED AND DOES NOT NECESSARILY REPRESENT EXACT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY BEFORE BIDDING.
- 2. DEMOLITION OF EQUIPMENT, SYSTEMS, AND COMPONENTS SHALL INCLUDE ALL SUPPORTS, PADS, HANGERS, INSULATION, CONTROLS, STARTERS, ACCESSORIES, AND APPURTENANCES NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM.
- 3. WHEN PARTIAL DEMOLITION OF A SYSTEM IS INDICATED, THE PART OF THE SYSTEM SHOWN TO REMOVED SHALL BE REMOVED TO THE ACTIVE MAIN OR BRANCH IF NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM. THE ACTIVE MAIN OR BRANCH SHALL BE REPAIRED TO MATCH NEW INSTALLATION AS MUCH AS PRACTICAL. IF SYSTEM IS INSULATED, INSULATION SHALL BE PATCHED AND FINISHED REPAIR (IE: VAPOR BARRIER, COATING, ETC.)
- 4. PATCHING OF BUILDING STRUCTURES AND FINISHES SHALL PERTAIN TO ALL WALLS, FLOORS, SLABS, ROOFS, STRUCTURES, AND FINISHES. PATCHES SHALL MATCH EXISTING STRUCTURE,
- FIRE RATING AND FINISH.

 5. ALL OPENINGS CREATED BY THE ABANDONMENT OR REMOVAL OF EXISTING SYSTEMS SHALL BE PATCHED.
- 6. ALL WALLS, ROOFS, SLABS, STRUCTURES, AND FINISHES WHOSE FINISH IS IRREGULAR DUE TO THE REMOVAL OF SYSTEMS, SUPPORTS, PADS, ACCESSORIES, AND APPURTENANCES SHALL BE PATCHED.
- 7. ALL FINISHES SHALL MATCH EXISTING FINISH. WHEN FINISH OBVIOUSLY DOES NOT MATCH EXISTING FINISH SUCH AS SHADE OF PAINT, AGE OF FINISH, ETC., THE FINISH SHALL BE APPLIED TO THE PATCH AND THE SURFACE IN ALL DIRECTIONS UNTIL A SURFACE CHANGE OF A MINIMUM OF 45 DEGREES.
- 3. REMOVAL OF SYSTEMS SHALL INCLUDE COMPLETE SYSTEM WHENEVER PRACTICAL. IF NOT, SYSTEM (IE: PIPE, CONDUIT, ETC.) SHALL BE REMOVED TO 1 INCH BELOW SURFACE.

MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS; SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
 USE ECCENTRIC REDUCERS (FOT) ON PUMP SUCTION AND CONCENTRIC REDUCERS ON PUMP DISCHARGE. USE ECCENTRIC REDUCERS ON AUTOMATIC VALVES WHERE
- 3. EXTEND ALL DRAIN LINES TO NEAREST FLOOR DRAIN OR AS INDICATED. ROUTE TO AVOID INTERFERENCE WITH PASSAGEWAYS. CONDENSATE DRAINS SHALL BE TRAPPED.
- SLOPE DRAIN LINES 1/8" PER FOOT.

 4. ALL PIPING SHALL PITCH DOWN IN DIRECTION OF FLOW OR AS INDICATED ON DRAWINGS: 1" PER 40 FEET WITH MANUAL AIR VENTS AT ALL HIGH POINTS, AND 3/4" DRAIN VALVES AT ALL LOW POINTS.
- 5. ALL PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS, ROOFS AND PARTITIONS EXCEPT WHERE PROHIBITED BY FIRE CODES.
- 6. LOCATE ALL THERMOSTATS, HUMIDISTATS AND SWITCHES 4'-0" ABOVE FINISH FLOOR; ALIGN WITH LIGHT SWITCHES.
- EXTEND DRAIN LINES FROM RELIEF VALVES TO 2" ABOVE NEAREST FLOOR DRAIN OR AS INDICATED.
 ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS AND FURTHER SUPPORTS OR HANGERS SHALL BE ADJACENT TO ELBOWS, TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT. SUPPORT DETAILS SHALL BE SUBMITTED TO THE
- MECHANICAL ENGINEER.

 9. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
- 10. CORRECT SETTINGS ON ALL BALANCING FITTINGS SHALL BE PERMANENTLY MARKED.11. RUNOUTS SHALL PITCH DOWN IN DIRECTION OF FLOW A
- MINIMUM OF 1" IN 30 FEET.

 12. AIR DISTRIBUTION SYSTEMS WITH MORE THAN ONE BRANCH, OR MULTIPLE OUTLETS ON A BRANCH, SHALL HAVE VOLUME DAMPERS TO BALANCE AIR FLOWS. SPIN—IN FITTINGS ARE PERMITTED FOR CONNECTING FLEX DUCT TO BRANCH OR TRUNK DUCTS WHERE FLEX DUCTS ARE INDICATED. IF FLEX DUCT CANNOT BE CONNECTED WITH A
- INDICATED. IF FLEX DUCT CANNOT BE CONNECTED WITH A SPIN—IN, A HARD DUCTED TAKEOFF MUST BE PROVIDED.

 13. 45 DEGREE TAKEOFFS SHALL BE USED ON ALL HARD
- DUCTED SUPPLY BRANCHES.

 14. ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THRU
 EXTERIOR WALLS AND ROOFS SHALL BE FLASHED AND
- COUNTERFLASHED.

 15. PROVIDE ALL TRANSITIONS REQUIRED FOR INSTALLATION OF DUCT, DUCT HEATERS, AIR VOLUME CONTROLLERS, FAN COIL UNITS, EXHAUST FANS, SUPPLY FANS, AND ALL
- OTHER EQUIPMENT AND APPURTENANCES.

 16. BLANK-OFF ALL UNUSED PORTIONS OF LOUVERS (WHICH HAVE MECHANICAL DUCT CONNECTIONS) WITH 20 GAGE
- GALVANIZED SHEET METAL.

 17. ALL TRANSFER DUCTS SHALL BE LINED WITH ONE INCH
- ACOUSTICAL LINER.
- 18. ALL DUCT IS GALVANIZED SHEET METAL EXCEPT AS NOTED.19. DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- 20. INTAKES FOR AIR HANDLING EQUIPMENT SHALL BE A MINIMUM OF TEN FEET AWAY FROM ANY EXHAUST OR VENT.
- AIR DISTRIBUTION UNITS SHALL HAVE TRIM REQUIRED FOR FINISHED SERVICE.
- 22. COORDINATE ORIENTATION OF SUPPLY AND RETURN PIPING BEFORE FABRICATION.
- 23. PROVIDE DIELECTRIC FITTINGS AT ALL LOCATIONS WHERE DISSIMILAR METALS ARE JOINED IN PIPING AND DUCT
- 24. ALL SUPPLY AND RETURN DUCTS SHALL HAVE TURNING

							PU	MP	SCHEDUL	E			
TAG	SERVICE	TYPE	FLOW (GPM)	HEAD FT (PSI)	EFFICIENCY (%)	HP	MOTOR RPM	TYPE	ELECTRICAL (VOLTS/PHASE)	EMERGENCY POWER	MANUFACTURER	MODEL	NOTES
CHP-1	CHILLED WATER	CLOSE-COUPLED	61	30	61	1	1800	ODP	208/3	NO	B&G	E-1531 1.25AD	1,2,3
CHP-2	CHILLED WATER	CLOSE-COUPLED	61	30	61	1	1800	ODP	208/3	NO	B&G	E-1531 1.25AD	1,2,3

SKID-MOUNTED
 INTERNAL RELIEF VALVE (SET AT 60 PSIG)
 REMOTE FIELD MOUNTED VFD

							AIR	HA	.NDLING	UNIT S	CHEDU	LE					
TAG	CAPACITY CFM	MINIMUM O.A.	FAN TYPE		PRESS. W.G. EXT	NO.	PPLY FAN RPM	S HP	ELECTRICAL VOLTS/PHASE	AIR VOLUME CONTROL	COOLING COIL EQ. NO.	FIRST STAGE FILTER EQ. NO.	SECOND STAGE FILTER EQ. NO.	ACCESSORIES	MANUFACTURER	MODEL	REMARKS
AHU-1	6920 }	750	PLENUM	5.9	4"	1	1965	15	208/3	VFD	CC-1			1	TRANE		
•																	
1. REMO	OTE FIELD MOUN	TED VFD							_	_		_	_				

						CO:	IL S	CHE	DUI	Æ								
TAG	LOCATION	SERVICE	CAPACITY	VELOCITY	MIN. FACE AREA (SQ. FT.)	AIR PRESS DROP (IN. WG.)	TOTAL MBH	CAPACITY SENS. MBH	GPM	WATER TEI ENT (°F)	MPERATURE LVG (*F)		AIR TEMF RING WB *F		VING WB *F	MINIMUM NO. OF ROWS	WATER PRESS DROP	NOTES
CC-1	AHU-1	CHILLED WATER		500		.53	304	209	61	45	55	80	67	54	53	6	16'	
1. MINIMUM	WATER VELOCI	ITY — 3 FEET PER	SECOND															

TAG NO.	MAXIMUM	MINIMUM	MIN. INLET		REHEAT CO	IL	INLET SIZE	ELECTRICAL	MANUFACTURER	MODEL NO.	NOTE
IAG NO.	BOX CFM	BOX CFM	S.P. (W.C.)	LAT	KW	STAGES	(INCHES)	(VOLTS/PHASE)	MANOFACTORER	MODEL NO.	NOTE
VAV-1	300	90	1"	92*	1.5	1	5"	208/3	TRANE	VCEF05	1,4,5
VAV-2	1150	345	1"	90°	4	1	10"	208/3	TRANE	VCEF10	1,4,5
VAV-3	540	162	1"	92*	2	1	8"	208/3	TRANE	VCEF08	1,4,5
VAV-4	875	263	1"	90°	3.5	1	10"	208/3	TRANE	VCEF10	1,4,5
VAV-5	1400	420	1"	90°	6	1	12"	208/3	TRANE	VCEF12	1,4,5
VAV-6	1600	500	1" <u>/1</u>	92"	8	1	14"	208/3	TRANE	VCEF14	1,4,5
VAV-7	530	160	1"	96*	2.5	1	8"	208/3	TRANE	VCEF08	1,4,5
VAV-8	455	138	1"	91°	2	1	6"	208/3	TRANE	VCEF06	1,4,5
VAV-9	350	105	1"	91°	2	1	6"	208/3	TRANE	VCEF06	1,4,5

		A	AIR]	DIST	RIBUT	ION SCH	HEDULE		
TAG	DESCRIPTION	NECK	MODULE SIZE	MOUNT	CONSTR.	MFGR	MODEL	NOTES	
A	ROUND ADJUSTABLE	AS SHOWN		SURFACE	ALUMINUM	HART AND COOLEY	SERIES 20	2,3,4	
В	PERFORATED CEILING RETURN/EXHAUST	AS SHOWN	12x12	SURFACE	ALUMINUM	PRICE	SERIES APDDR	3,5	
С	FLOOR SUPPLY	AS SHOWN	AS SHOWN	FLOOR	STEEL	HART & COOLEY	SERIES 210	1,4	
D	FLOOR RETURN	AS SHOWN	AS SHOWN	FLOOR	STEEL	HART & COOLEY	SERIES 265	1,4	
E	SIDEWALL SUPPLY	AS SHOWN	AS SHOWN	SIDEWALL	ALUMINUM	PRICE	SERIES 620DAL	3	
F	SIDEWALL RETURN/EXHAUST	AS SHOWN	AS SHOWN	SIDEWALL	ALUMINUM	PRICE	SERIES 630DAL	3	
1. F	FURNISH WITH OPPOSED BLADE DAMPER 4-WAY DEFLECTION UNLESS NOTED OTHER	3. BA	KED ENAME	L OFF-WHITI TED BY ARCI	E FINISH HITECT				

TAG	TYPE	CAPACITY	E.S.P.	МО	TOR	ELECTRICAL	MANUFACTURER	MODEL NO.	NOTES
		CFM	(IN. WG.)	WATTS	RPM	(VOLTS/PHASE)			
EF-1	CEILING	50	.375	128	636	115/1	GREENHECK	SP-150	2,3,8,9
EF-2	CEILING	50	.375	128	636	115/1	GREENHECK	SP-150	2,3,8,9
EF-3	CEILING	300	.375	224	947	115/1	GREENHECK	SP-A510	2,3,8,9
EF-4	CEILING	350	.375	224	1008	115/1	GREENHECK	SP-A510	2,3,8,9
EF-5	CEILING	50	.375	128	636	115/1	GREENHECK	SP-150	2,3,8,9
		ļ							

		Ţ	JNIT	HEA	ATER S	SCHEDU:	LE	
Ì	TYPE	CFM	ELECTRICAL CHARACTERISTICS					
TAG			KW	AMPS	HEATER VOLTS/PHASE	MANUFACTURER	MODEL	NOTES
EUH-1 UN	NIT HEATER	400	5	13.9	208/3	MARKEL	5100	1,3,4



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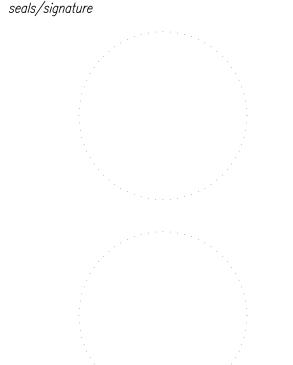
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