

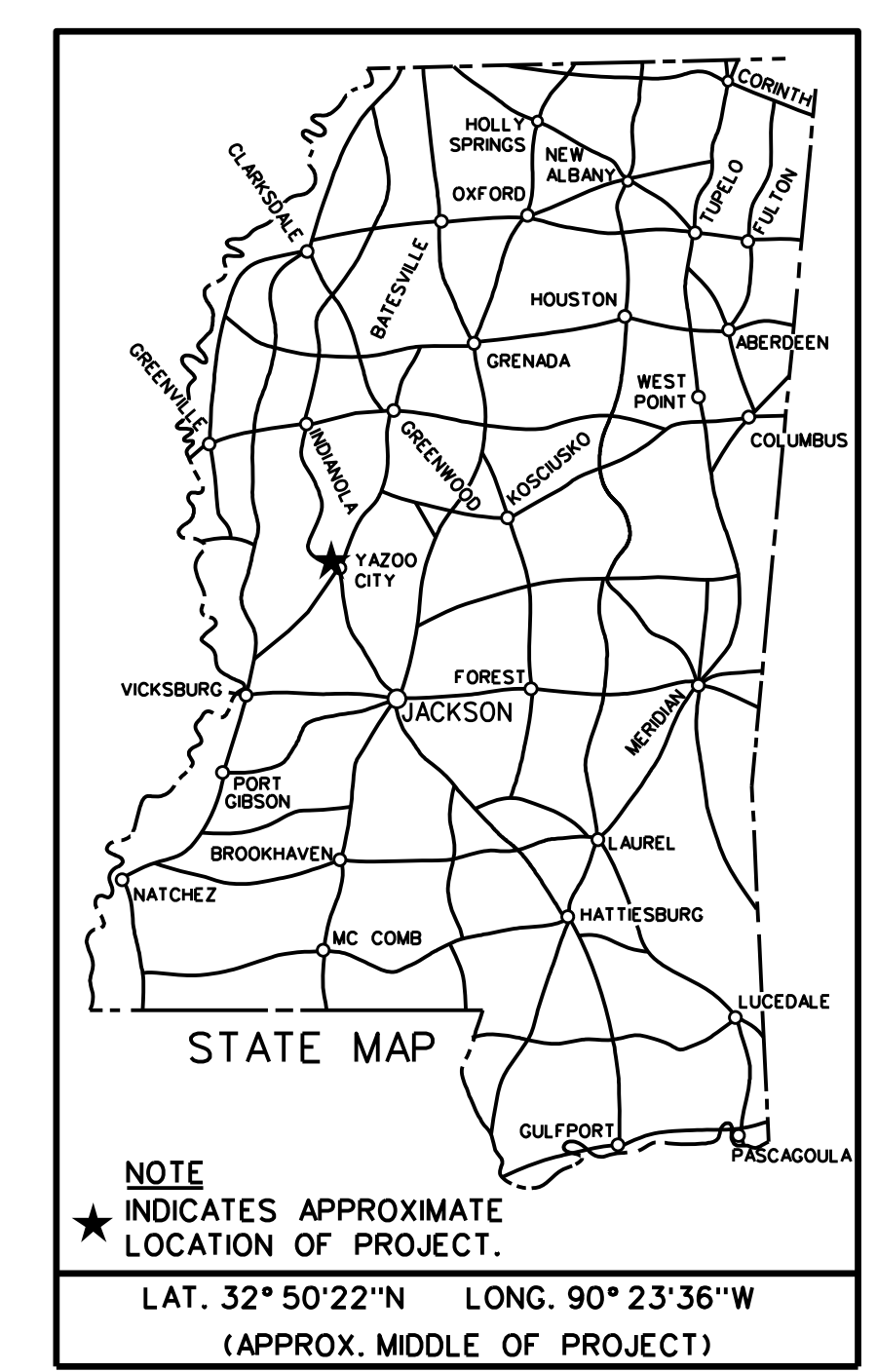
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| STATE | PROJECT NO. | SHEET NO. |
| MISS. | BWO-3074-82(004) | 1 |

STATE OF MISSISSIPPI
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
DISTRICT 3 MATERIALS LAB
HVAC AND LIGHTING REPLACEMENT
AT YAZOO CITY
STATE PROJECT NO. BWO-3074-82(004)

YAZOO COUNTY

CONSTRUCTION FMS NOS.
503088/301000



**1240 Highway 49, West,
Yazoo City, MS 39194**



MECHANICAL



ELECTRICAL



ARCHITECTURAL

| PERMITS ACQUIRED BY MDOT | | |
|-----------------------------|---|--------------------------|
| WETLANDS AND WATERS PERMITS | | |
| <input type="checkbox"/> | WATERS | WETLANDS |
| NATIONWIDE #14 | <input type="checkbox"/> | <input type="checkbox"/> |
| NATIONWIDE (OTHER)* | <input type="checkbox"/> | <input type="checkbox"/> |
| GENERAL* | <input type="checkbox"/> | <input type="checkbox"/> |
| INDIVIDUAL (404)* | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | STORMWATER PERMIT <input type="checkbox"/> | |
| Y | REQUIRED, CNOI SUBMITTED BY MDOT (DISTURBED AREA = 5 ACRES) | |
| S | REQUIRED, SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES) | |
| N | NO STORMWATER PERMIT REQUIRED (<1 ACRE) | |
| APPROVED BY: _____ | | |

| | | |
|--|------|--------------|
| REVISIONS | DATE | REMOVED NOTE |
| | DATE | REMOVED NOTE |
| | DATE | REMOVED NOTE |
| P S & E DATE: 10/16/2017 | | |
| APPROVED: | | |
| DEPUTY EXECUTIVE DIRECTOR / CHIEF ENGINEER | | |
| EXECUTIVE DIRECTOR | | |
| | | |

SITE ARCHITECTURAL SERVICES DIVISION MISSISSIPPI DEPARTMENT OF TRANSPORTATION


| | |
|-------|------------------|
| STATE | PROJECT NO. |
| MISS. | BWO-3074-82(004) |

| DESCRIPTION OF SHEET | WKG. NO. | SHEET NO. |
|-------------------------------------|----------|-----------|
| LIGHTING PHOTOMETRICS | E-102 | 0 |
| TITLE SHEET | --- | 1 |
| DETAILED INDEX | DI-1 | 2 |
| FIRST FLOOR DEMO PLAN | AD-101 | 3 |
| FIRST FLOOR RCP | A-101 | 4 |
| PLUMBING GENERAL NOTES & LEGEND | P-001 | 5 |
| PLUMBING DEMOLITION PLAN | P-100 | 6 |
| PLUMBING FLOOR PLAN | P-101 | 7 |
| PLUMBING DETAILS | P-501 | 8 |
| PLUMBING SCHEDULES | P-601 | 9 |
| HVAC GENERAL NOTES & LEGEND | M-001 | 10 |
| HVAC DEMOLITION PLAN | M-100 | 11 |
| HVAC FLOOR PLAN - DUCTWORK | M-101 | 12 |
| HVAC FLOOR PLAN - PIPING & CONTROLS | M-102 | 13 |
| HVAC ENLARGED PLANS | M-401 | 14 |
| HVAC DETAILS | M-501 | 15 |
| HVAC DETAILS | M-502 | 16 |
| HVAC DETAILS | M-503 | 17 |
| HVAC CONTROLS LEGEND | M-504 | 18 |
| HVAC CONTROLS SCHEMATICS | M-505 | 19 |
| HVAC CONTROLS SCHEMATICS | M-506 | 20 |
| HVAC SCHEDULES | M-601 | 21 |
| ELEC LEGEND | E-001 | 22 |
| LIGHTING FLOOR PLAN | E-101 | 23 |
| POWER FLOOR PLAN | E-201 | 24 |
| SCHEDULES | E-601 | 25 |

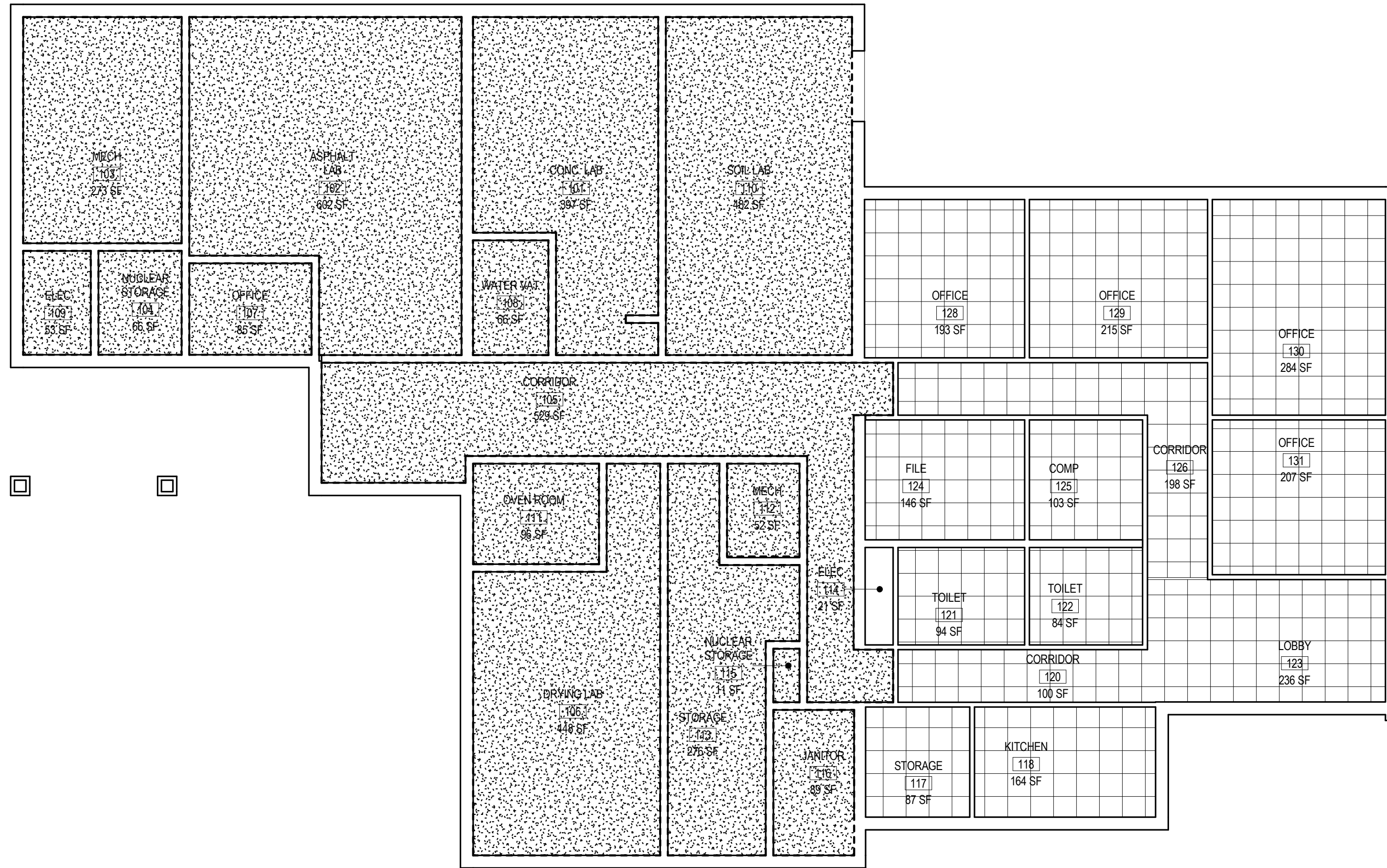
ARCHITECTURAL SERVICES DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

| PS & E PLANS - DATE 10/16/17 | | |
|------------------------------|-----------|-----|
| FMS CON. # 503088 / 301000 | | |
| REVISIONS | | |
| DATE | SHEET NO. | BY |
| 10/25/17 | 1 | BLL |
| | | |
| | | |



| | | | |
|----------|------|--|--|
| REVISION | BY | MISSISSIPPI DEPARTMENT OF TRANSPORTATION DISTRICT 3 MATERIALS LAB HVAC AND LIGHTING REPLACEMENT |  WORKING NUMBER DI-1 |
| | DATE | DETAILED INDEX Project Number: BWO-3074-82(004) COUNTY: YAZOO FILENAME: BWO-3074-82(004)-DI-1.dgn DESIGN TEAM: CDFL CHECKED: DRL DATE: 10/16/17 | |

10/16/17 12:00 PM BWO-3074-82(004)-DI-1.dgn



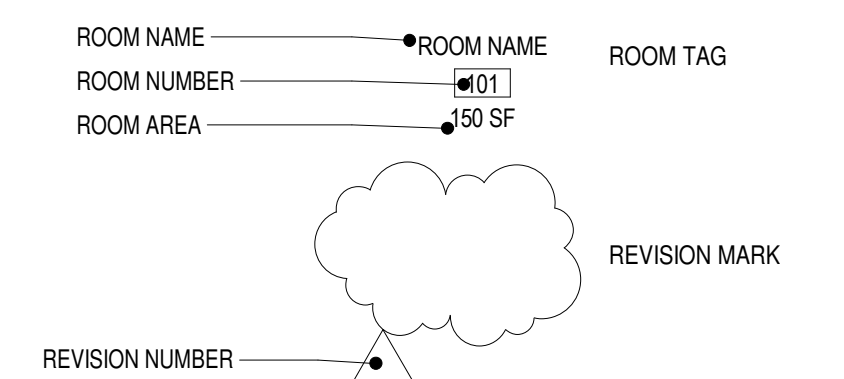
GENERAL DEMOLITION NOTES

1. DEMO ALL CEILINGS SHOWN ON PLAN
2. ALL INFORMATION IS BASED ON OWNER SUPPLIED DOCUMENTS AND FIELD OBSERVATIONS AND MAY NOT REFLECT COMPLETELY ACTUAL FIELD CONDITIONS. UPON DISCOVERY OF ANY INCONSISTENCIES BETWEEN THE DRAWINGS DESCRIBING THE EXISTING CONDITIONS OR UNKNOWN CONDITIONS THAT ARE DETRIMENTAL TO THE COMPLETION OF THE WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF THE CONDITION IN QUESTION BEFORE PROCEEDING WITH THE WORK IN THAT AREA.
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING IF ANY WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS CANNOT BE PERFORMED DUE TO EXISTING FIELD CONDITIONS.
4. SALVAGE IS DEFINED AS CAREFULLY REMOVING AND RETAINING ITEMS FOR RE-USE OR TO BE RETURNED TO THE OWNER.
5. THE EXISTING FACILITIES SHALL BE SURVEYED BY THE ARCHITECT, OWNER AND CONTRACTOR PRIOR TO DEMOLITION. MATERIALS AND FIXTURES TO BE SALVAGED AND STORED FOR RE-USE AND/OR RETURNED TO THE OWNER, SHALL BE TAGGED BY THE CONTRACTOR AS DIRECTED BY THE OWNER AND SHALL BE PROTECTED.
6. ALL MAJOR MECHANICAL, PLUMBING AND ELECTRICAL ITEMS SHALL BE REMOVED BY THE RESPECTIVE TRADES. ALL ITEMS TO BE REMOVED ARE NOT NECESSARILY SHOWN ON THESE DOCUMENTS.
7. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR DEMOLITION OF UTILITIES.
8. SPECIAL CARE SHALL BE TAKEN AT THE INTERFACE BETWEEN DEMOLITION AND EXISTING CONSTRUCTION TO REMAIN TO AVOID DAMAGE TO ANY SYSTEM TO REMAIN AND/OR BE RE-INSTALLED.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE EXISTING SUBSTRATE CORRECTION IN ALL AREAS WHERE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND SERVICES ARE REMOVED AND/OR CAPPED.
10. IF ANY EXISTING FIREPROOFING OR OTHER RATED ASSEMBLIES WHICH ARE INDICATED TO REMAIN ARE DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR DAMAGE TO THE LEVEL OF THE ORIGINAL FIRE PROTECTION REQUIREMENTS.

THE CONTRACTOR SHALL NOTIFY, COORDINATE, SCHEDULE AND RECEIVE PRIOR PERMISSION FROM THE OWNER IF ANY SHUT-DOWN OF SERVICES IS NECESSARY TO COMPLETE THE WORK. NOTIFICATION SHALL INCLUDE THE TYPE OF SERVICE TO BE SHUT-DOWN, AREAS AFFECTED, REQUESTED SHUT-DOWN DATES AND LENGTH OF TIME SERVICE WILL BE DOWN.

1 FIRST FLOOR REFLECTED CEILING DEMO PLAN
AD-101 1/8" = 1'-0"

SYMBOLS and DRAWING CONVENTIONS



10/16/17 12:00 PM BWO-3074-82(004)-AD-101.dgn ARCHITECTURAL SERVICES DIVISION MISSISSIPPI DEPARTMENT OF TRANSPORTATION



| | |
|-------------|---|
| BY | MISSISSIPPI DEPARTMENT OF TRANSPORTATION DISTRICT 3 MATERIALS LAB HVAC AND LIGHTING REPLACEMENT |
| REVISION | FIRST FLOOR DEMO PLAN |
| DATE | Project Number: BWO-3074-82(004) COUNTY: YAZOO |
| DESIGN TEAM | FILENAME: BWO-3074-82(004)-AD-101.dgn DATE: 10/16/17 |
| CHECKED | WORKING NUMBER AD-101 |
| MEB | SHEET NUMBER 3 |

GENERAL ARCHITECTURAL RCP NOTES

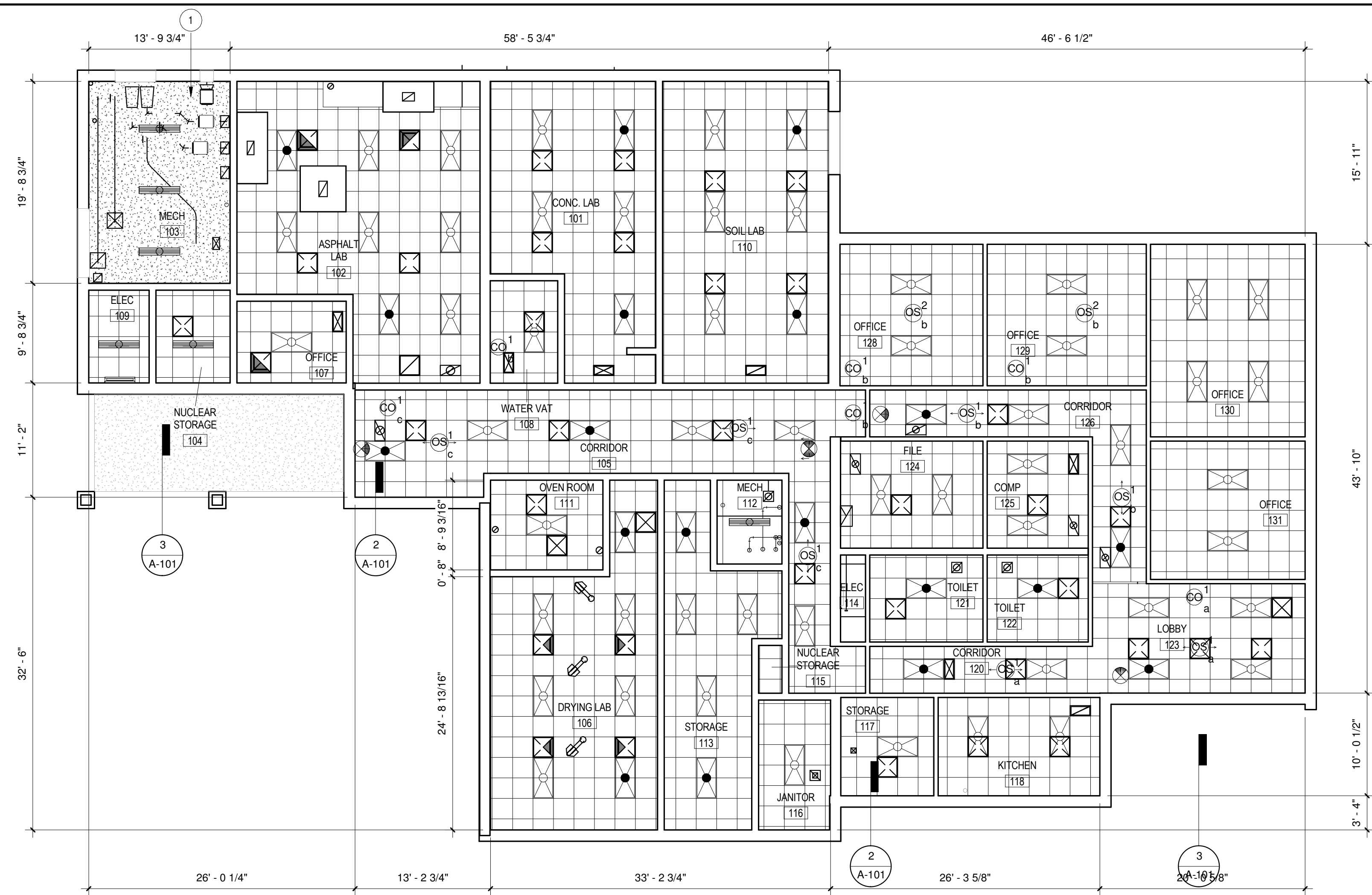
- A DIMENSIONS ARE BASED ON OWNER PROVIDED AS-BUILT FILES AND MAY NOT BE EXACT. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION.
- B ALL CEILINGS ARE TO BE ACOUSTICAL TILE (ACT) TYPE 1 UNLESS OTHERWISE NOTED.
- C CEILING HEIGHTS TO BE 8'-6". UNLESS OTHERWISE NOTED.
- D CONTRACTOR TO COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR ITEMS LOCATED IN CEILING NOT SHOWN ON THIS SHEET.
- E IF ACCESS PANELS ARE INDICATED OR REQUIRED, CONSULT ARCHITECT PRIOR TO PLACEMENT.
- F ADVISE THE OWNER THAT AN 18" MIN. VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF SPRINKLER HEADS AND THE TOP OF ANY FILES, SHELVING, LOCKERS, ETC.
- G OBJECTS WHICH OCCUR ON OR IN LAY-IN CEILING TILES ARE TO BE LOCATED AT THE CENTER OF THE TILE, UNLESS OTHERWISE NOTED.
- H IN REFERENCE TO PLASTER OR GYPSUM BOARD CEILINGS; OBJECTS WHICH OCCUR BETWEEN TWO LIGHT FIXTURES ARE TO BE EQUALLY SPACED AND ALIGNED WITH THE CENTER OF LIGHT FIXTURES, UNLESS OTHERWISE NOTED.
- I SPRINKLER HEAD LOCATIONS ARE NOT INDICATED ON THIS CEILING PLAN. THE CONTRACTOR SHALL INSTALL SUFFICIENT HEADS IN ALL SPACES TO PROVIDE COMPLETE (100% AUTOMATIC SPRINKLER COVERAGE AS DEFINED IN NFPA STANDARD 13)

SYMBOLS and DRAWING CONVENTIONS

- OPEN: OPEN TO STRU. ABOVE
- TYPE 1 (ACP) 2'x2' ACOUST. CEILING PANEL
- TYPE 2: GYPSUM BOARD
- 2'x2' LIGHT FIXTURE IN ACOUSTICAL PANEL CEILING SYSTEM
- 2'x4' LIGHT FIXTURE IN ACOUSTICAL PANEL CEILING SYSTEM
- CEILING FINISH | CEILING HEIGHT
- SUSPENDED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- LINEAR LIGHT FIXTURE
- EXIT SIGN
- OCCUPANCY SENSOR
- SMOKE DETECTOR
- SMOKE DETECTOR (REFER TO FA DWGS)
- FIRE SPRINKLER HEAD DIFFUSER
- EXHAUST FAN RETURN

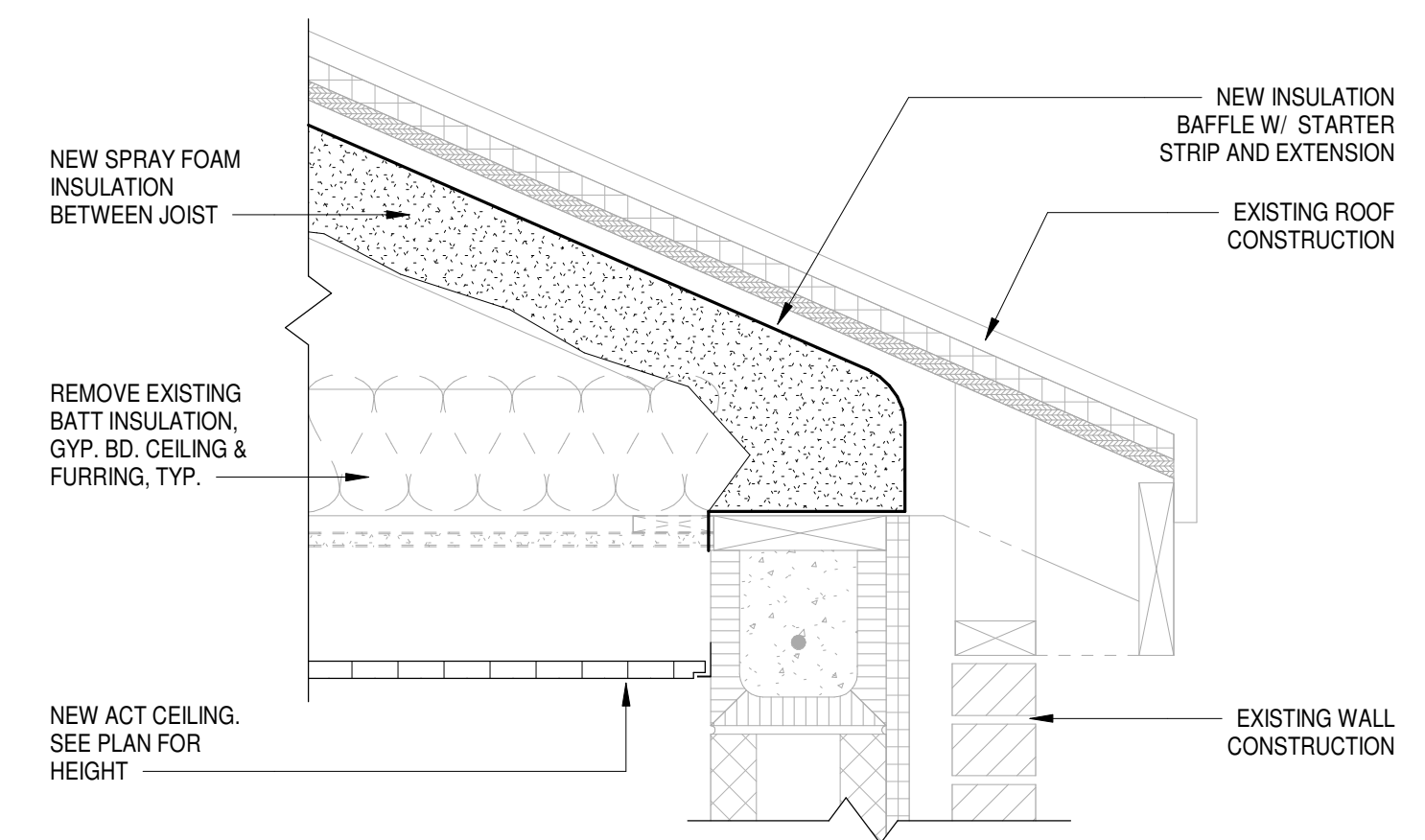
RCP KEY NOTES

- 1 NEW GYP. BD. CEILING ATTACHED TO EXISTING FURRING.



1 FIRST FLOOR REFLECTED CEILING PLAN

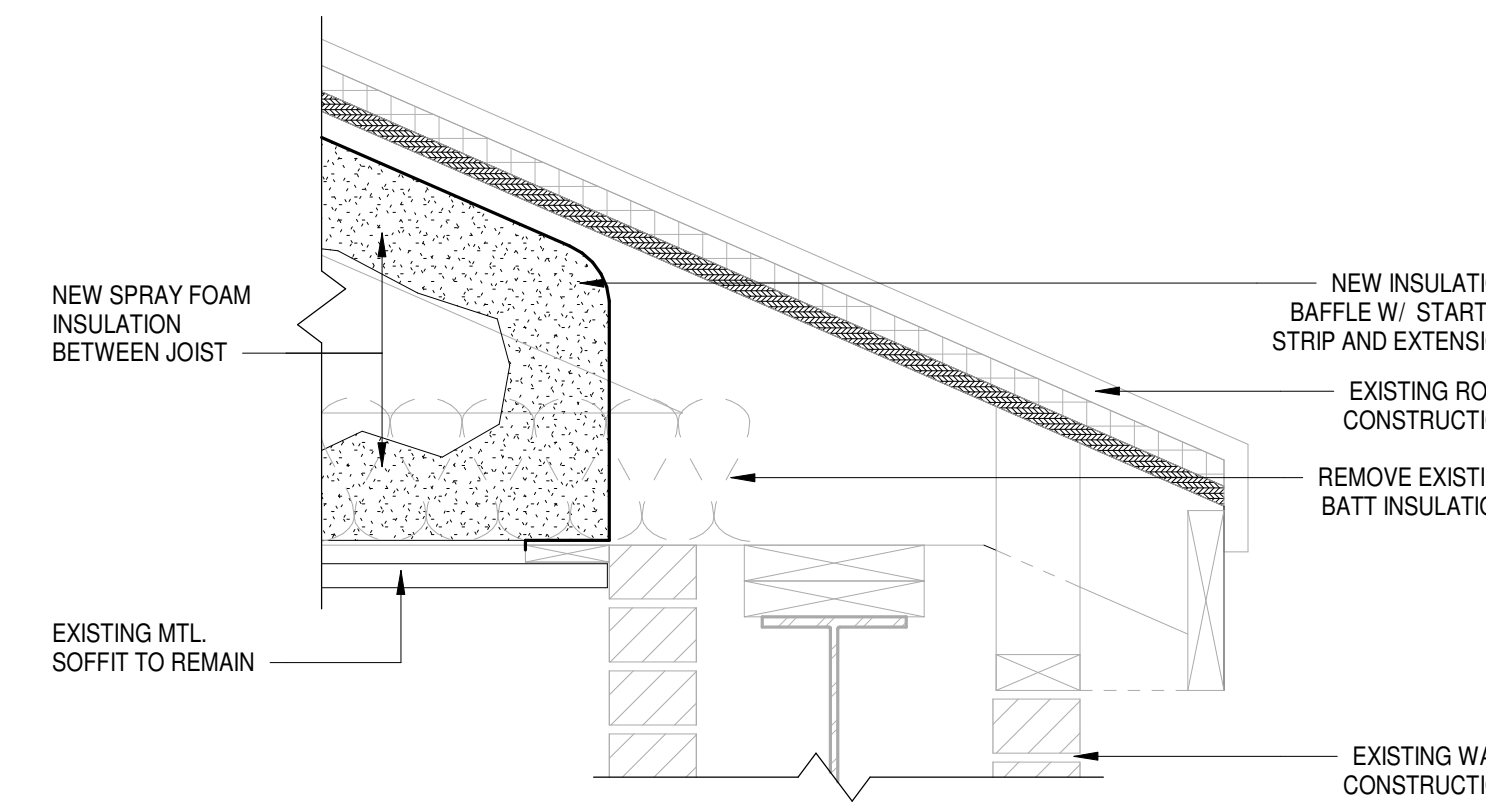
1/8" = 1'-0"



NOTE: DETAIL APPLIES TO ENTIRE ROOF AREA ABOVE CEILING.

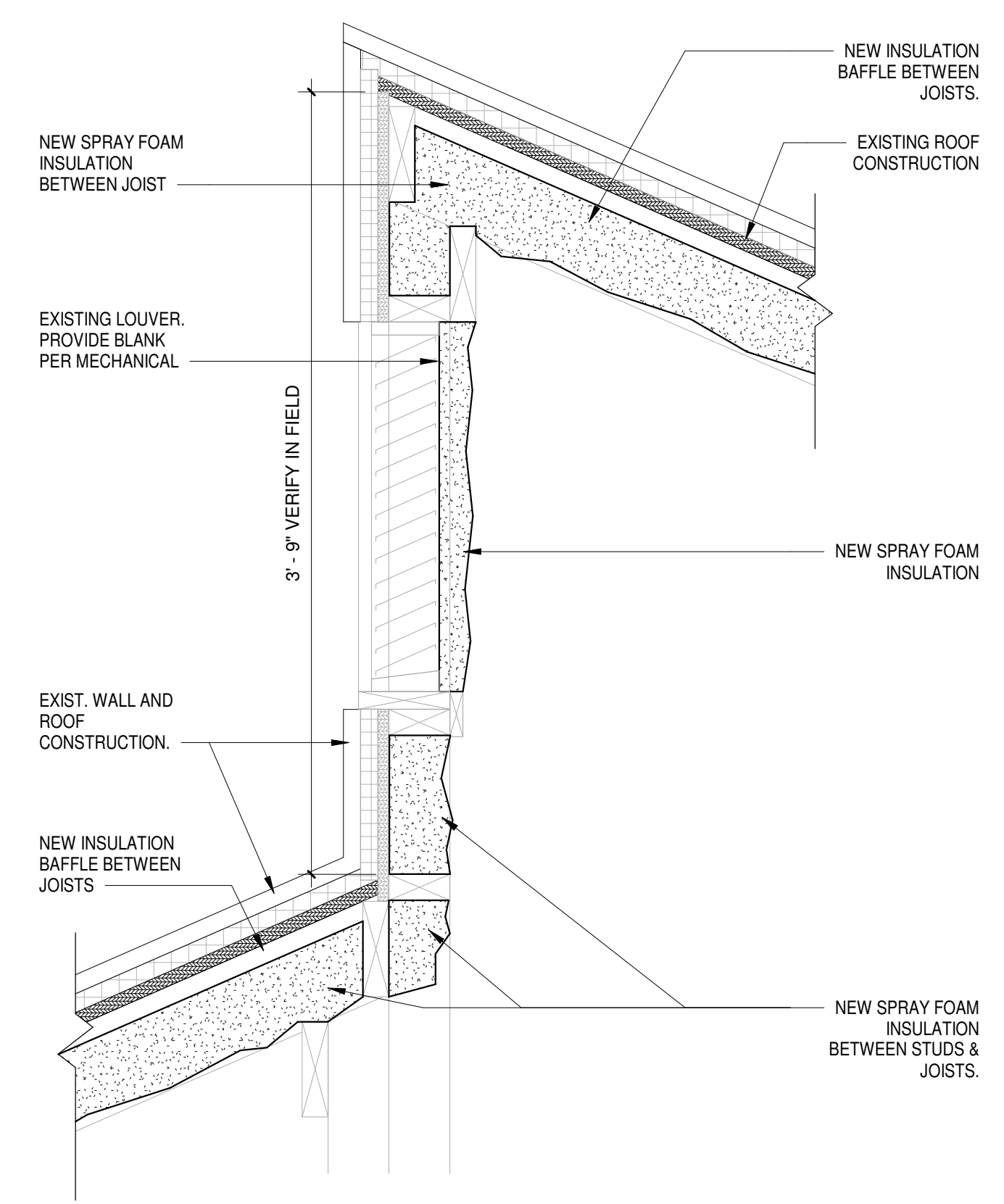
2 TYPICAL ABOVE CEILING INSULATION DETAIL

1 1/2" = 1'-0"



3 ABOVE CEILING INSULATION DETAIL @ PORCH

1 1/2" = 1'-0"



4 ABOVE CEILING INSULATION DETAIL @ OFFSET ROOF

1 1/2" = 1'-0"



| | |
|----------------|--|
| BY | MISSISSIPPI DEPARTMENT OF TRANSPORTATION |
| REVISION | DISTRICT 3 MATERIALS LAB HVAC AND LIGHTING REPLACEMENT |
| DATE | FIRST FLOOR RCP |
| DESIGN TEAM | Project Number: BWO-3074-82(004) |
| CDFL | COUNTY: YAZOO |
| CHECKED | WORKING NUMBER A-101 |
| MEB | FILENAME: BWO-3074-82(004)-A-101.dgn |
| DATE: 10/16/17 | SHEET NUMBER 4 |

ARCHITECTURAL SERVICES DIVISION MISSISSIPPI DEPARTMENT OF TRANSPORTATION

12:00 PM BWO-3074-82(004)-A-101.dgn 10/16/17

GENERAL NOTES - DEMOLITION

- A. LOCATIONS AND SIZES OF EXISTING EQUIPMENT, PIPING, ETC. SHOWN ON DEMOLITION PLAN(S) ARE APPROXIMATE AND MAY NOT HAVE BEEN PREVIOUSLY VERIFIED. THE CONTRACTOR IS TO VISIT PROJECT SITE PRIOR TO CONSTRUCTION AND VERIFY EXISTING SIZES, AND LOCATIONS, AS WELL AS GENERAL WORKING CONDITIONS.
- B. THE BUILDING OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL EQUIPMENT, ETC. REMOVED DURING DEMOLITION. ALL EQUIPMENT, MATERIALS, ETC. NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- C. PATCHING OF EXISTING WALLS, FLOORS, CEILINGS, PAVING, ETC. SHALL BE PERFORMED BY THE GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR IS TO IDENTIFY ALL KNOWN AREAS THAT WILL REQUIRE PATCHING AND COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO BIDDING THE PROJECT (SEE ARCHITECTURAL PLANS FOR ADDITIONAL INSTRUCTIONS REGARDING PATCHING).
- D. ALL ACCESSIBLE, ABANDONED PIPING (INCLUDING ABANDONED FIXTURE ROUGH-IN PIPING) IS TO BE REMOVED UNLESS NOTED OTHERWISE. REMAINING PIPING IS TO BE CAPPED OFF IN WALLS, ABOVE CEILINGS, AND/OR BELOW FLOORS.
- E. ANY AND ALL EXISTING PIPING DISCOVERED DURING DEMOLITION (BUT NOT NECESSARILY SHOWN ON PLANS) THAT IS REQUIRED TO REMAIN IN SERVICE, IS TO BE REROUTED AND RECONNECTED AS REQUIRED. UPON DISCOVERY OF SUCH CONDITIONS, THE CONTRACTOR IS TO CONTACT THE MECHANICAL ENGINEER FOR INSTRUCTIONS.
- F. THE CONTRACTOR IS TO PERFORM ALL WORK ACCORDING TO PROJECT PHASING GUIDELINES. WHERE PROJECT PHASING IS NOT ADDRESSED ON PLANS OR IN SPECIFICATIONS, ALL WORK (IN BUILDING(S) OR ON SITE) ANTICIPATED TO CAUSE DISRUPTION OR OTHERWISE AFFECT PLUMBING SYSTEMS AND/OR BUILDING OCCUPANTS IN OTHER AREAS OF THE BUILDING IS TO BE SCHEDULED WITH THE BUILDING OWNER.
- G. ANY AND ALL TEMPORARY PLUMBING SERVICES ARE TO BE PROVIDED BY AND PAID FOR BY THE CONTRACTOR.

GENERAL PLUMBING NOTES - NEW CONSTRUCTION

- A. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL PLUMBING INSTALLATIONS WITH ALL OTHER TRADES (HVAC, FIRE PROTECTION, ELECTRICAL, LIGHTING, STRUCTURAL, CEILING CONSTRUCTION AND SUPPORTS, AND ETC.). ANY CONFLICTS ARISING DUE TO A LACK OF CONSTRUCTION COORDINATION OR CONSIDERATION FOR THE REQUIREMENTS OF OTHER TRADES SHALL BE RESOLVED AT NO EXPENSE TO THE OWNER.
- B. NO PLUMBING SYSTEMS ARE TO BE INSTALLED IN OR ABOVE ANY ELECTRICAL OR COMMUNICATIONS ROOM, ELEVATOR SHAFT, ELEVATOR EQUIPMENT ROOM OR STAIRWELL UNLESS SHOWN ON PLANS.
- C. REFER TO ARCHITECTURAL PLANS FOR INSTALLATION DIMENSIONS FOR ALL PLUMBING FIXTURES.
- D. WHERE POSSIBLE, VALVES AND DEVICES IN ABOVE-CEILING PIPING ARE TO BE INSTALLED ABOVE ACCESSIBLE CEILINGS AND CLEANOUTS EXTENDED TO ABOVE ACCESSIBLE CEILINGS. WHERE INSTALLED ABOVE INACCESSIBLE CEILINGS, ACCESS PANELS ARE TO BE INSTALLED.
- E. ACCESS PANELS ARE TO BE ADEQUATELY SIZED TO ALLOW FOR OPERATION AND MAINTENANCE OF ALL CONCEALED VALVES, CLEANOUTS, EQUIPMENT, ETC. AND ARE TO HAVE SAME SMOKE/FIRE RATING AS WALLS AND CEILINGS IN WHICH THEY ARE INSTALLED.
- F. ESCUTCHEONS ARE TO BE FURNISHED AND INSTALLED FOR ALL EXPOSED PIPE PENETRATIONS OF WALLS AND PARTITIONS AND FOR PIPE PENETRATIONS (EXPOSED AND CONCEALED) OF MILLWORK AND CASEWORK.
- G. ALL THRU-PENETRATIONS OF WALLS AND PARTITIONS ARE TO BE SLEEVED (SEE SPECIFICATIONS).
- H. ALL PENETRATIONS OF RATED WALLS, FLOORS, AND ASSEMBLIES ARE TO BE SLEEVED AND FIRESTOPPED (SEE SPECIFICATIONS).
- I. PIPE INSULATION IS TO BE RUN CONTINUOUS (UNCUT) THRU WALL STUDS, PIPE HANGERS AND SUPPORTS, AND WALL AND FLOOR PENETRATIONS.
- J. MASTIC IS TO BE APPLIED TO ALL RAW EDGES OF PIPING INSULATION.
- K. VALVES INSTALLED IN INSULATED PIPING ARE TO BE INSULATED AND SHUT-OFF VALVES PROVIDED WITH EXTENDED STEMS.
- L. WATER HAMMER ARRESTORS ARE TO BE INSTALLED AS CLOSE TO CONNECTIONS TO PIPES SERVED AS POSSIBLE. ACCESS PANELS, WHERE SHOWN ON RISER DIAGRAMS, ARE TO BE INSTALLED CLEAR OF FIXTURES, MILLWORK, TOILET GRAB BARS, ETC.
- M. GRAVITY-FLOW PIPING 2-1/2" AND SMALLER IS TO BE RUN AT A MINIMUM SLOPE OF 1/4" PER FOOT. GRAVITY-FLOW PIPING 3" AND LARGER IS TO BE RUN AT A MINIMUM SLOPE OF 1/8" PER FOOT.
- N. ANY INDIRECT DRAIN PIPED TO AN OPEN RECEPTOR (FLOOR DRAIN, ETC.) IS TO TURN DOWN OVER RECEPTOR, LEAVING AIR GAP BETWEEN END OF DRAIN AND FLOOD LEVEL RIM OF RECEPTOR. AIR GAP SHALL BE EQUAL TO TWICE THE EFFECTIVE OPENING OF THE INDIRECT DRAIN PIPE.
- O. ALL ABOVE-SLAB CONDENSATE DRAINS ARE TO BE INSULATED PER SPECIFICATIONS. ALL ABOVE-SLAB SANITARY BRANCH LINES AND TRAPS CONNECTED TO RECEPTORS THAT RECEIVE CONDENSATE ARE TO BE INSULATED AS FOR CONDENSATE DRAINS, PER SPECIFICATIONS.
- P. FOR BARE COPPER PIPING, COPPER HANGERS OR HANGERS WITH RUBBER/POLYCARBONATE ATTACHMENTS ARE REQUIRED IN ORDER TO PREVENT GALVANIC CORROSION. TAPE IS NOT AN ACCEPTABLE DIELECTRIC SEPARATION.
- Q. WHERE BARE COPPER PIPING IS ROUTED THROUGH OR AGAINST STUDS, RUBBER OR POLYCARBONATE SPACERS ARE REQUIRED.
- R. REFER TO HVAC PLANS FOR PIPE SUPPORT DETAILS.
- S. CONCRETE HOUSEKEEPING PADS (WITH CHAMFERED EDGES) FOR FLOOR-MOUNTED EQUIPMENT ARE TO BE PROVIDED BY GENERAL CONTRACTOR.
- T. ALL PLUMBING SYSTEMS AND EQUIPMENT ARE TO BE INSTALLED PER CONTRACT DOCUMENTS. THE CONTRACTOR MUST REQUEST AND RECEIVE DOCUMENTED APPROVAL FROM THE MECHANICAL ENGINEERS PRIOR TO DEVIATING FROM CONTRACT DOCUMENTS.
- U. CONTRACTOR SHALL REFER TO ARCHITECTURAL FOR PHASING OF WORK.

| PLUMBING PIPING & SYMBOL LEGEND | | | |
|--|----------------|---|--|
| SANITARY SOIL / WASTE | —SW— | GATE VALVE | |
| SANITARY VENT | -----SV----- | BALL VALVE | |
| GREASE WASTE | —GW— | BUTTERFLY VALVE | |
| STORM DRAIN | —SD— | GAS COCK | |
| PRIMARY STORM DRAIN | —PSD— | CHECK VALVE - ARROW INDICATES FLOW DIRECTION | |
| SECONDARY STORM DRAIN | —SSD— | FLOW MEASURING / SETTING DEVICE (BALANCING VALVE) | |
| DOMESTIC COLD WATER | -----DCW----- | PRESSURE REDUCING VALVE | |
| DOMESTIC HOT WATER (110°) | -----DHW----- | RELIEF VALVE | |
| DOMESTIC HOT WATER RECIRC. LINE (110°) | -----DHWR----- | GAGE | |
| DOMESTIC HOT WATER (140°) | —140° DHW— | UNION | |
| DOMESTIC HOT WATER RECIRC. LINE (140°) | —140° DHWR— | MANUAL AIR VENT | |
| GAS (NATURAL) | —G— | GAGE COCK | |
| EQUIPMENT DRAIN | —ED— | WATER HAMMER ARRESTOR (LETTER = PDI SIZE) | |
| CONDENSATE DRAIN | —CD— | THERMOMETER | |
| PUMPED CONDENSATE | —PC— | THERMOMETER WELL | |
| FIRE PROTECTION | —F— | WYE STRAINER | |
| PIPE DROP | | HOSE BIBB | |
| PIPE RISE | | CONCRETE THRUST BLOCK | |
| PIPE TEE OFF BOTTOM | | NEW CONNECTION TO EXISTING | |
| CLEANOUT | | LIMITS OF DEMOLITION | |
| WALL CLEANOUT | | FINISHED FLOOR CLEANOUT | |
| FIRE SPRINKLER HEAD | | FINISHED GRADE CLEANOUT | |
| PLAN NOTE DESIGNATION | # | VENT THROUGH ROOF | |

| PLUMBING ABBREVIATIONS | | | | | |
|------------------------|-------------------------|------|----------------------------------|-----|-----------------------|
| AAV | AIR ADMITTANCE VALVE | FGCO | FINISHED GRADE CLEANOUT | NTS | NOT TO SCALE |
| AFF | ABOVE FINISHED FLOOR | GPH | GALLONS PER HOUR | PSD | PRIMARY STORM DRAIN |
| AFG | ABOVE FINISHED GRADE | GPM | GALLONS PER MINUTE | SSD | SECONDARY STORM DRAIN |
| BE | BOTTOM ELEVATION | GW | GREASE WASTE | SV | SANITARY VENT |
| CA | COMPRESSED AIR | HB | HOSE BIBB | SW | SANITARY WASTE |
| CAD | COMPRESSED AIR - DROP | HBF | HOSE BIBB (FREEZE-PROOF) | TP | TRAP PRIMER |
| CFH | CUBIC FEET PER HOUR | HC | GALLONS PER MINUTE | TYP | TYPICAL |
| CO | CLEANOUT | HW | DOMESTIC HOT WATER | VTR | VENT THROUGH ROOF |
| CW | DOMESTIC COLD WATER | HWR | DOMESTIC HOT WATER RECIRCULATION | WCO | WALL CLEANOUT |
| FCO | FINISHED FLOOR CLEANOUT | MBH | THOUSANDS OF BTU/HR | WH | WATER HEATER |
| FD | FLOOR DRAIN | NG | NATURAL GAS | WHA | WATER HAMMER ARRESTOR |

ARCHITECTURAL SERVICES DIVISION MISSISSIPPI DEPARTMENT OF TRANSPORTATION

10/16/17 12:00 PM BWO-3074-82(004)-P-001.dgn



| | |
|----------------|---|
| BY | MISSISSIPPI DEPARTMENT OF TRANSPORTATION DISTRICT 3 MATERIALS LAB HVAC AND LIGHTING REPLACEMENT |
| REVISION | PLUMBING GENERAL NOTES & LEGEND Project Number: BWO-3074-82(004) |
| DATE | COUNTY: YAZOO |
| FILENAME: | BWO-3074-82(004)-P-001.dgn |
| DESIGN TEAM | CDFL |
| CHECKED | DRL |
| DATE: | 10/16/17 |
| WORKING NUMBER | P-001 |
| SHEET NUMBER | 5 |

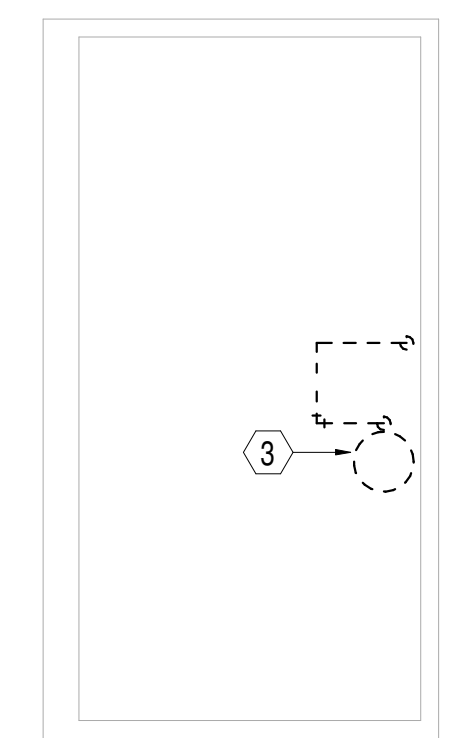
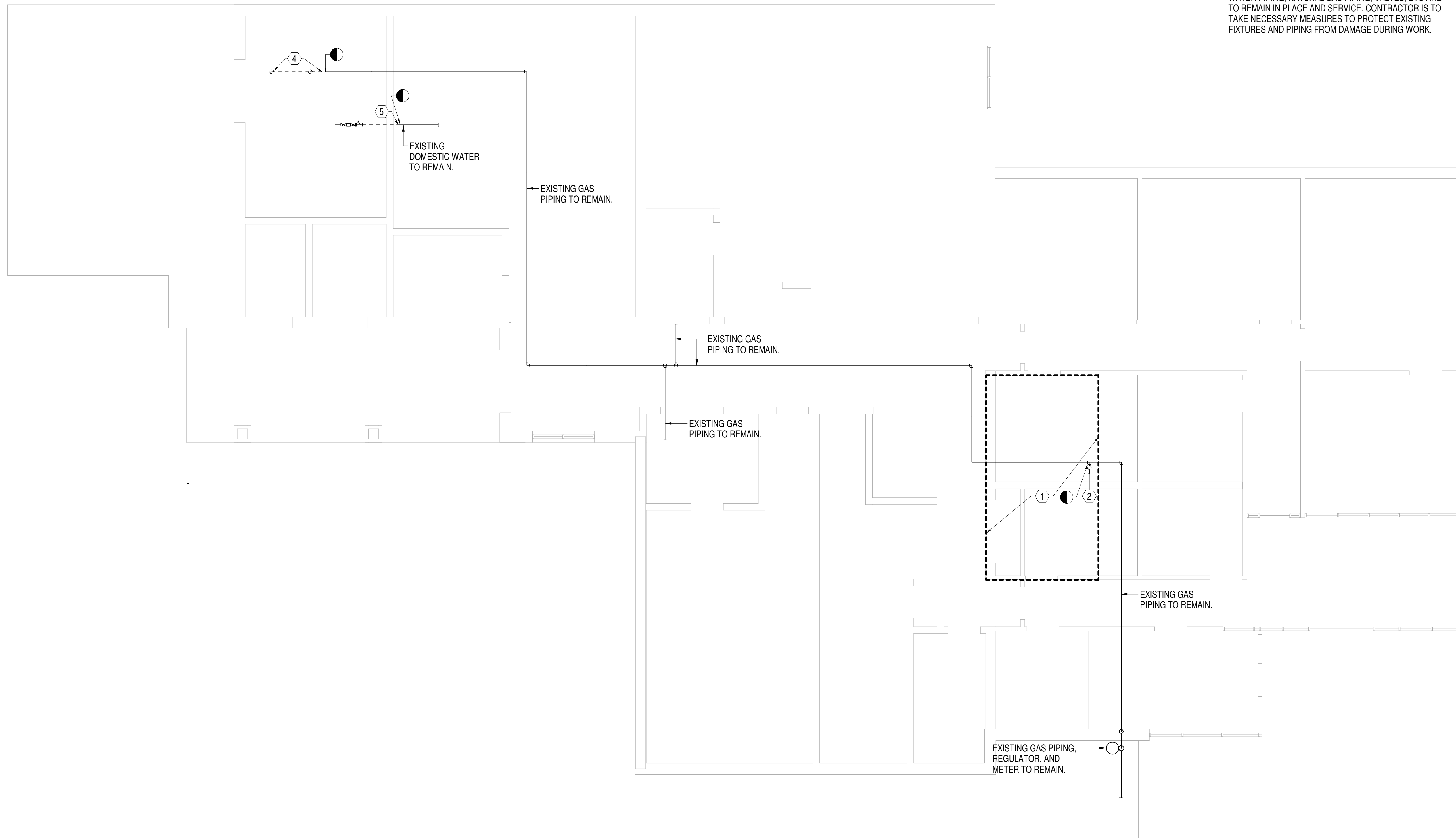


GENERAL PLAN NOTES:

- A. SEE GENERAL DEMOLITION NOTES FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- B. SEE HVAC DEMOLITION PLANS.
- C. SEE ELECTRICAL DEMOLITION PLANS.
- D. UNLESS OTHERWISE NOTED, ALL PLUMBING EQUIPMENT, FIXTURES, SANITARY WASTE AND VENT PIPING, DOMESTIC WATER PIPING, NATURAL GAS PIPING, VALVES, ETC ARE TO REMAIN IN PLACE AND SERVICE. CONTRACTOR IS TO TAKE NECESSARY MEASURES TO PROTECT EXISTING FIXTURES AND PIPING FROM DAMAGE DURING WORK.

SPECIFIC PLAN NOTES:

- 1. SEE WATER HEATER ROOM PLAN FOR WORK IN ATTIC AREA ABOVE.
- 2. REMOVE GAS PIPING FROM ABOVE BACK TO MAIN. INSTALL FULL-SIZE GAS COCK IN BRANCH AND CAP.
- 3. REMOVE EXISTING WATER HEATER, GAS PIPING AND ALL ACCESSORIES. REMOVE DOMESTIC COLD AND HOT WATER BACK TO MAIN. INSTALL FULL-SIZE BALL VALVE IN DOMESTIC COLD AND HOT WATER BRANCHES.
- 4. REMOVE GAS PIPING DOWN TO BOILERS. INSTALL FULL-SIZE GAS COCK AND CAP.
- 5. REMOVE CHILLED AND HEATING WATER MAKEUP PIPING AND BACKFLOW PREVENTER BACK TO ABOVE CONDITIONED SPACE. INSTALL FULL SIZE BALL VALVE AND CAP.



WATER HEATER ROOM PLAN (IN ATTIC)

1 PLUMBING DEMOLITION PLAN
3/16" = 1'-0"



| | | |
|----------|----|---|
| REVISION | BY | MISSISSIPPI DEPARTMENT OF TRANSPORTATION DISTRICT 3 MATERIALS LAB HVAC AND LIGHTING REPLACEMENT |
| DATE | | PLUMBING DEMOLITION PLAN |
| | | Project Number: BWO-3074-82(004) |
| | | COUNTY: YAZOO |
| | | FILENAME: BWO-3074-82(004)-P-100.dgn |
| | | DESIGN TEAM: CDFL CHECKED: DRL DATE: 10/16/17 |
| | | WORKING NUMBER P-100 |
| | | SHEET NUMBER 6 |

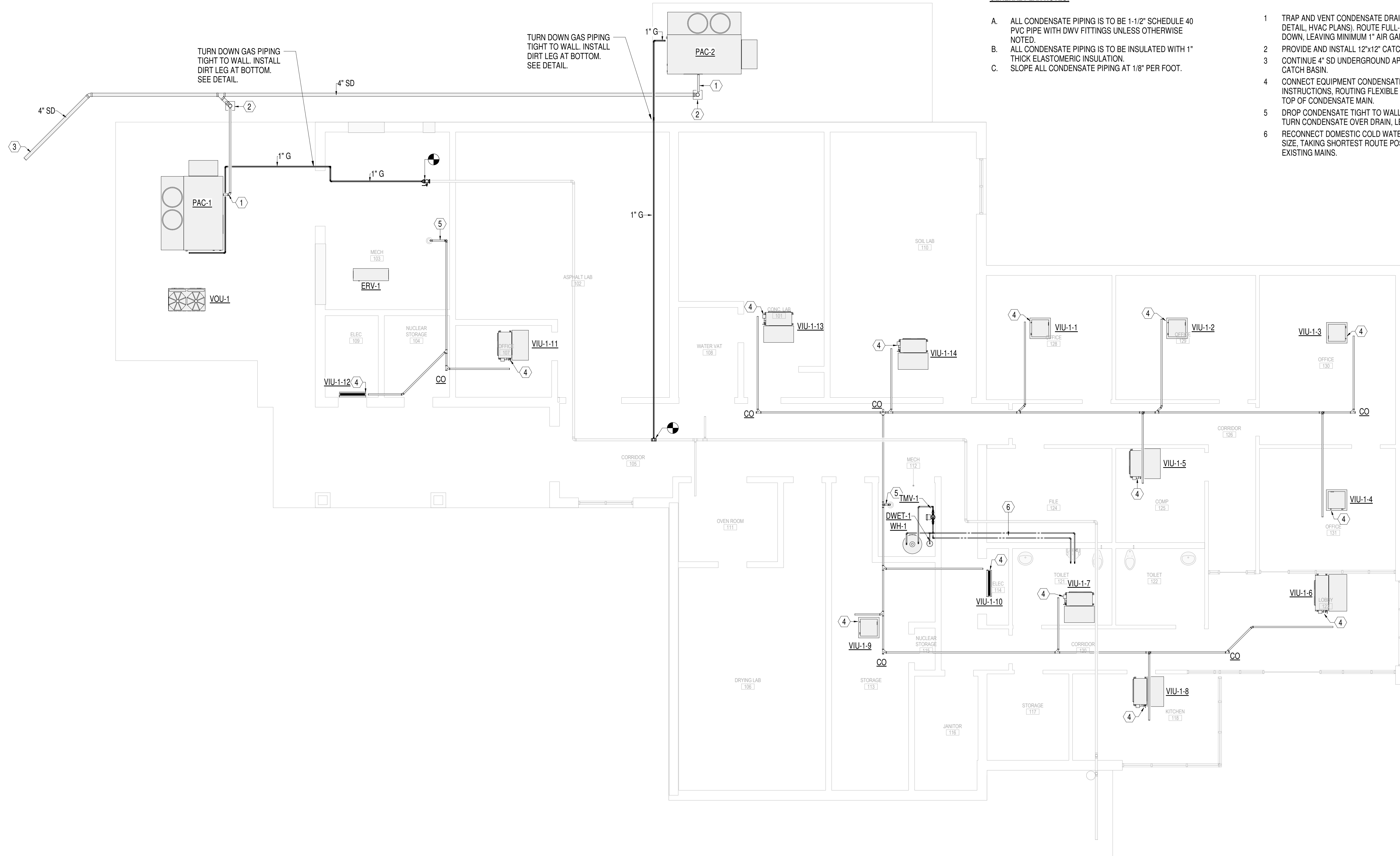


GENERAL PLAN NOTES:

- A. ALL CONDENSATE PIPING IS TO BE 1-1/2" SCHEDULE 40 PVC PIPE WITH DWV FITTINGS UNLESS OTHERWISE NOTED.
- B. ALL CONDENSATE PIPING IS TO BE INSULATED WITH 1" THICK ELASTOMERIC INSULATION.
- C. SLOPE ALL CONDENSATE PIPING AT 1/8" PER FOOT.

SPECIFIC PLAN NOTES:

- 1 TRAP AND VENT CONDENSATE DRAIN AT AIR CONDITIONING UNIT (SEE DETAIL, HVAC PLANS). ROUTE FULL-SIZE PIPE TO CATCH BASIN AND TURN DOWN, LEAVING MINIMUM 1" AIR GAP.
- 2 PROVIDE AND INSTALL 12"x12" CATCH BASIN.
- 3 CONTINUE 4" SD UNDERGROUND APPROXIMATELY 60 FEET TO EXISTING CATCH BASIN.
- 4 CONNECT EQUIPMENT CONDENSATE DRAIN PER MANUFACTURER'S INSTRUCTIONS, ROUTING FLEXIBLE DRAIN PIPE UP AND CONNECTING TO TOP OF CONDENSATE MAIN.
- 5 DROP CONDENSATE TIGHT TO WALL DOWN TO EXISTING FLOOR DRAIN. TURN CONDENSATE OVER DRAIN, LEAVING 2" AIR GAP.
- 6 RECONNECT DOMESTIC COLD WATER AND HOT WATER PIPING FULL MAIN SIZE, TAKING SHORTEST ROUTE POSSIBLE FROM WATER HEATER TO EXISTING MAINS.



1 PLUMBING FLOOR PLAN

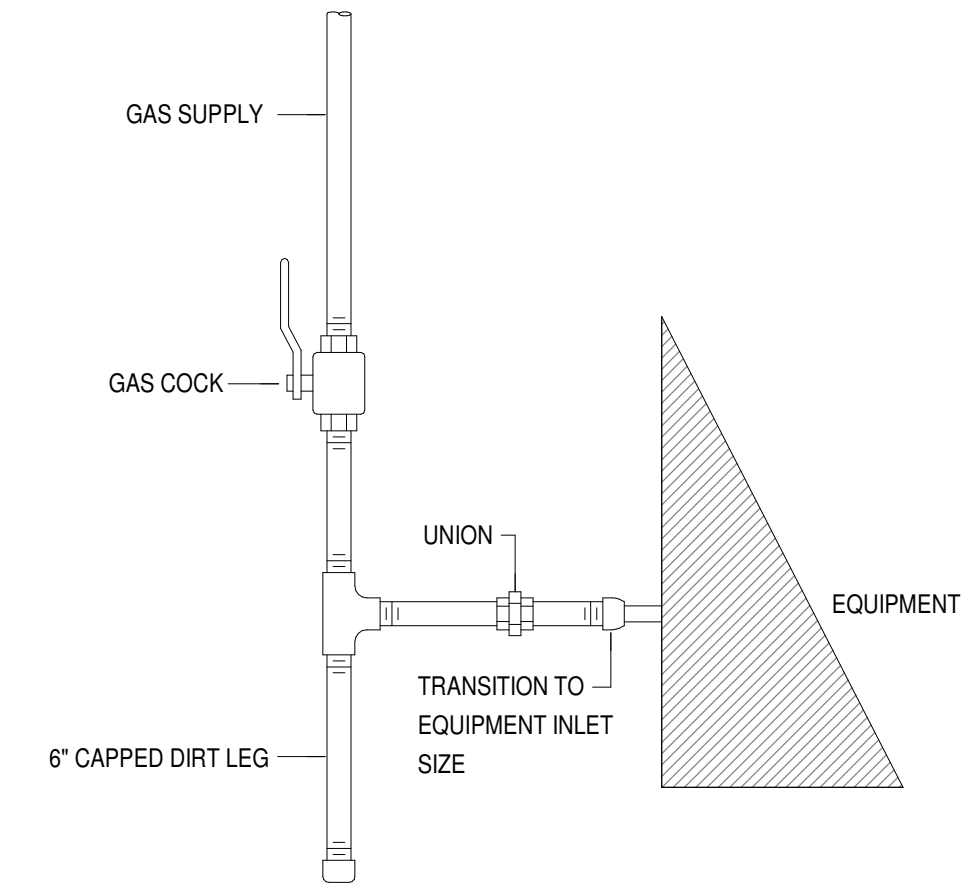
3/16" = 1'-0"



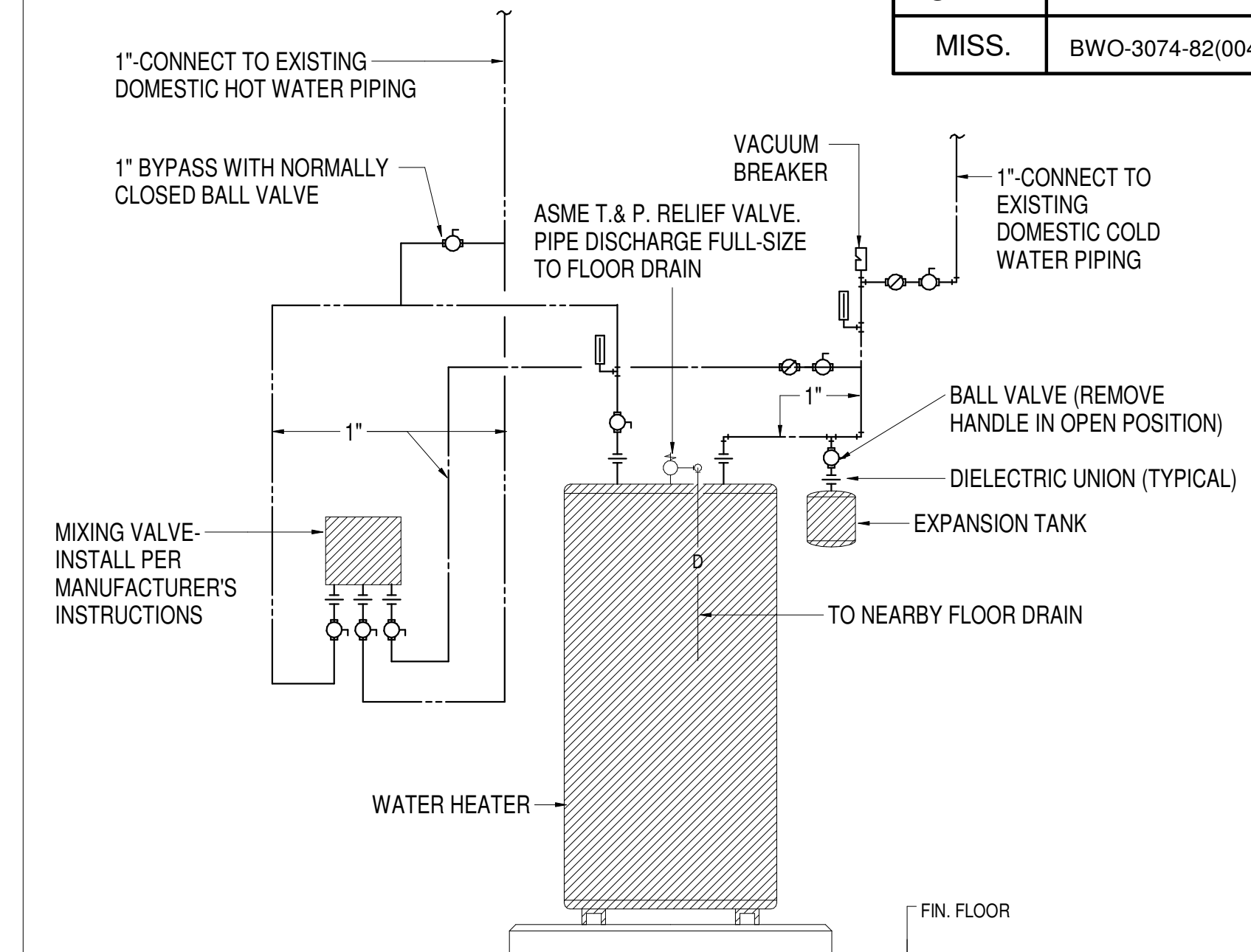
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| BY | MISSISSIPPI DEPARTMENT OF TRANSPORTATION |
| REVISION | DISTRICT 3 MATERIALS LAB HVAC AND LIGHTING REPLACEMENT |
| DATE | PLUMBING FLOOR PLAN |
| | Project Number: BWO-3074-82(004) |
| | COUNTY: YAZOO |
| | FILENAME: BWO-3074-82(004)-P-101.dgn |
| | DESIGN TEAM: CDFL CHECKED: DRL DATE: 10/16/17 |
| | WORKING NUMBER P-101 |
| | SHEET NUMBER 7 |



| | |
|-------|------------------|
| STATE | PROJECT NO. |
| MISS. | BWO-3074-82(004) |



GAS CONNECTION TO ACU-1
NTS



ELECTRIC WATER HEATER INSTALLATION DETAIL
NTS

ARCHITECTURAL SERVICES DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

12:00 PM BWO-3074-82(004)-P-501.dgn 10/16/17



| | |
|-------------|---|
| BY | MISSISSIPPI DEPARTMENT OF TRANSPORTATION DISTRICT 3 MATERIALS LAB HVAC AND LIGHTING REPLACEMENT |
| REVISION | PLUMBING DETAILS |
| DATE | Project Number: BWO-3074-82(004) COUNTY: YAZOO |
| DESIGN TEAM | FILENAME: BWO-3074-82(004)-P-501.dgn DATE: 10/16/17 |
| CDFL | CHECKED DRL |
| | WORKING NUMBER P-501 |
| | SHEET NUMBER 8 |



WATER HEATER SCHEDULE

| MARK | FUEL | STORAGE CAPACITY, GALLONS | RECOVERY G.P.H. AT 100 DEG. RISE | INPUT, KW | ELECTRICAL DATA | | BASIS OF DESIGN | ACCESSORIES |
|--|----------|------------------------------|-------------------------------------|-----------|-----------------|-------|-------------------|---|
| | | | | | VOLTAGE | PHASE | | |
| WH-1 | ELECTRIC | 50 | 19 | 4.5 | 240 | 1 | A.O. SMITH ENT-50 | 1 |
| ACCESSORIES: 1. PROVIDE PIPING, VALVES, AND ACCESSORIES PER DETAIL. | | | | | | | | COMPARABLE PRODUCTS: A.O. SMITH, RHEEM, STATE |

DOMESTIC WATER THERMAL EXPANSION TANK SCHEDULE

| MARK | MAKE | MODEL | TANK VOLUME (GAL) | ACCEPTABLE VOLUME (GAL) | MAX. OPERATING PRESSURE (PSI) | MAX. OPERATING TEMPERATURE (°F) | DIMENSIONS | | CONNECTION SIZE | NOTES |
|---|------|--------|----------------------|----------------------------|----------------------------------|------------------------------------|------------|----------|--------------------|---|
| | | | | | | | HEIGHT | DIAMETER | | |
| DWET-1 | ELBI | DTS-19 | 5.0 | 5.0 | 150 | 240 | 19.3" | 10.6" | 3/4" | 1,2 |
| NOTES: 1. TANK, BLADDER, AND ALL COMPONENTS SHALL BE APPROVED FOR USE IN POTABLE SYSTEMS. 2. TANK SHALL BE ASME CODE CONSTRUCTED. | | | | | | | | | | COMPARABLE PRODUCTS: ELBI, A.O. SMITH, AMTROL |

THERMOSTATIC MIXING VALVE SCHEDULE

| MARK | DESCRIPTION | FLOW RANGE (GPM) | PRESSURE DROP (PSI) | ELECTRICAL DATA | | BASIS OF DESIGN | ACCESSORIES |
|--|-------------------------|------------------|------------------------|-----------------|-------|-------------------|---|
| | | | | VOLTAGE | PHASE | | |
| TMV-1 | ELECTRONIC MIXING VALVE | 0.25-100 | 5 @ 50 GPM | 120 | 1 | LEONARD NV-150-LF | 1 |
| NOTES: 1. PROVIDE WITH SURFACE MOUNTED STAINLESS STEEL CABINET. | | | | | | | COMPARABLE PRODUCTS: LEONARD, POWERS, ARMSTRONG |



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| REVISION | BY | MISSISSIPPI DEPARTMENT OF TRANSPORTATION DISTRICT 3 MATERIALS LAB HVAC AND LIGHTING REPLACEMENT |
| | | PLUMBING SCHEDULES |
| | | Project Number: BWO-3074-82(004) |
| | | COUNTY: YAZOO |
| DATE | FILENAME: | BWO-3074-82(004)-P-601.dgn |
| | DESIGN TEAM | CDFL |
| | CHECKED | DRL |
| | DATE: | 10/16/17 |
| | WORKING NUMBER | P-601 |
| | SHEET NUMBER | 9 |



ARCHITECTURAL SERVICES DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

12:00 PM BWO-3074-82(004)-P-601.dgn
10/16/17

GENERAL NOTES - DEMOLITION:

- A. IT IS THE INTENT OF THESE DEMOLITION DRAWINGS TO AID THE CONTRACTOR IN BIDDING THE PROJECT BY PROVIDING INFORMATION ABOUT HVAC EQUIPMENT, PIPING, AND ASSOCIATED MATERIALS AND THEIR REMOVAL. AIR DISTRIBUTION AND PIPING SYSTEMS, INCLUDING SIZES AND ROUTING, SHOWN DRAWINGS WERE TAKEN FROM EXISTING RECORD DRAWINGS AND UPDATED BY ONSITE INVESTIGATION. HOWEVER, CONTRACTOR SHALL VISIT SITE AND OBSERVE ALL EXISTING CONDITIONS RELATED TO THE WORK AND MAKE NECESSARY ADJUSTMENTS, TO FACILITATE DEMOLITION OF EXISTING AND INSTALLATION OF NEW SYSTEMS.
- B. MECHANICAL CONSTRUCTION SHALL INCLUDE ALL WORK REQUIRED FOR THE REMOVAL OF EXISTING MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC. WHERE INDICATED OR REQUIRED TO FACILITATE NEW CONSTRUCTION. THE CONTRACTOR SHALL REMOVE FROM THE SITE ANY DUCTWORK, EQUIPMENT, VALVES, PIPING, MOTORS, CONTROLS, ETC. NOT RE-USED.
- C. WHERE NEW PIPING AND DUCT SYSTEMS ARE SHOWN TO REPLACE EXISTING SYSTEMS, THE EXISTING COMPONENTS SHALL BE REMOVED TO PERMIT THE INSTALLATION OF THE NEW SYSTEMS. NEW SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS BETWEEN THE CONNECTION TO EXISTING AND NEW EQUIPMENT. OWNER SHALL HAVE FIRST RIGHTS OF REFUSAL TO ALL EXISTING DUCT, PIPING, VALVES, HANGERS, SUPPORTS, ETC THAT ARE TO BE DEMOLISHED. IF OWNER REFUSES DEMOLISHED MATERIALS, THEY SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.
- D. IT IS MECHANICAL CONTRACTORS RESPONSIBILITY TO COORDINATE CONSTRUCTION WORK WITH GENERAL CONTRACTOR AND OTHER TRADES ON SITE. WORK PERFORMED UNDER THIS PROJECT SHALL NOT DISRUPT OR INTERFERE WITH OPERATION OF REST OF BUILDING. ANY TEMPORARY UTILITY, DUCT, ETC. CONNECTIONS NECESSARY TO MAINTAIN SERVICES ARE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY.
- E. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL DEMOLITION INFORMATION.
- F. NO EXISTING STRUCTURAL MEMBERS ARE TO BE CUT OR PENETRATED WITHOUT SPECIFIC AUTHORIZATION BY ARCHITECT. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL REMAINING OPENINGS AND HOLES IN WALLS, CEILING, AND FLOORS SHALL BE PATCHED AND FINISHED UNDER DIRECTION OF PROJECT ARCHITECT/ENGINEER.
- G. MAINTAIN THE EXISTING WALL CONSTRUCTION INCLUDING FIRE RATINGS WHERE WORK IS PERFORMED.

GENERAL NOTES - NEW CONSTRUCTION:

- A. ALL DUCTWORK AND PIPING ASSOCIATED WITH MECHANICAL (HVAC) SYSTEMS SHALL BE INSTALLED AND SECURED PER APPLICABLE BUILDING CODES ABOVE CEILINGS OR IN FURRED CHASES. PROVIDE ACCESS PANELS FOR ALL MECHANICAL EQUIPMENT INSTALLED ABOVE HARD CEILINGS OR IN FURRED CHASES REQUIRING ACCESS, SUCH AS FIRE DAMPERS, VOLUME DAMPERS, PIPING, VALVES, ETC.
- B. MECHANICAL CONTRACTOR SHALL COORDINATE AIR DISTRIBUTION DEVICE LAYOUT WITH ARCHITECTURAL REFLECTED CEILING PLANS. LIGHT FIXTURE LOCATIONS SHOWN ON ELECTRICAL DRAWINGS TAKE PRIORITY OVER AIR DISTRIBUTION DEVICE LOCATIONS.
- C. MECHANICAL CONTRACTOR SHALL INSTALL VOLUME DAMPERS IN ALL BRANCH DUCTS TO SUPPLY, RETURN, OR EXHAUST GRILLES EXCEPT IN LOCATIONS WHERE THE DRAWINGS/SCHEDULES CALL FOR VOLUME DAMPERS INTEGRAL TO DIFFUSERS. VOLUME DAMPERS SHALL BE LOCATED FOR ACCESS FROM LAT CEILING OR ACCESS PANELS. CONTRACTOR TO INSTALL FLAGGING TAPE AT EACH VOLUME DAMPER LOCATION.
- D. FLEXIBLE DUCT RUNOUTS TO SUPPLY DIFFUSERS SHALL NOT EXCEED 5'-0" IN LENGTH, AND SHALL BE INSTALLED ONLY ON SUPPLY AIR. NO FLEX WILL BE ALLOWED ON RETURN OR EXHAUST SYSTEMS. FOR ALL DUCT SYSTEMS, TAPS OFF MAIN TRUNK DUCTS SHALL BE CUT INTO THE SIDES OR BOTTOM OF DUCT ONLY.
- E. SEE SPECIFICATION FOR DUCT LEAK TESTING REQUIREMENTS. FOR ALL DUCT SYSTEMS THAT REQUIRE TESTING, ALL COMPONENTS IN THE MAIN DUCT (FITTINGS, FIRE DAMPERS, SMOKE DAMPERS, BRANCH TAPS, ETC.) MUST BE INSTALLED PRIOR TO TESTING. THE CONTRACTOR MUST GIVE ADEQUATE ADVANCE NOTICE OF THE TESTING TO THE PROJECT ENGINEER.
- F. PROVIDE AND INSTALL FIRE DAMPERS IN ALL DUCTWORK THAT PENETRATE FIRE RATED WALLS OR FLOORS. REFER TO ALL APPLICABLE BUILDING CODES AND SPECIFICATIONS PERTAINING TO THIS PROJECT.
- G. FIRE STOP ALL PIPES AND DUCTS THAT PENETRATE RATED WALLS, FLOORS, AND CEILINGS. REFER TO BUILDING CODES AND SPECIFICATIONS FOR APPROVED FIRE PROOFING MATERIALS AND METHODS.
- H. SEE LIFE SAFETY PLANS FOR REQUIRED RATING OF FIRE DAMPERS.
- I. PROVIDE ACCESS PANELS FOR ALL FIRE AND SMOKE DAMPERS.
- J. REFER TO MECHANICAL DETAILS FOR TYPICAL INSTALLATION OF HVAC EQUIPMENT.
- K. MECHANICAL CONTRACTOR TO COORDINATE ALL ROOF, WALL, AND FLOOR PENETRATIONS WITH GENERAL WORKS CONTRACTOR.
- L. REMOVAL OF CROSS BRACING TO FACILITATE DUCT ROUTING, MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
- M. PROVIDE AND INSTALL AUTOMATIC HIGH CAPACITY AIR VENTS AT HIGH POINTS FOR ALL HYDRONIC PIPING SYSTEMS. PROVIDE AND INSTALL MANUAL DRAINS AT LOW POINTS FOR ALL HYDRONIC PIPING SYSTEMS.
- N. ALL REFRIGERANT PIPING TO BE SIZED AND INSTALLED PER MANUFACTURER'S GUIDELINES. CONTRACTOR TO PROVIDE LAYOUT WITH SUBMITTAL INDICATING PIPING SIZES, SPECIAL FITTINGS, ETC. WITH CONSIDERATION GIVEN TO PIPING LENGTH, EQUIPMENT CAPACITY AND OPERATING CONDITIONS.
- O. CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWING FOR LOCATION OF ANCHORS, GUIDES, AND EXPANSION COMPENSATORS IN CHILLED AND HEATING WATER PIPING SYSTEMS. ALL COMPONENTS SHALL BE INSTALLED PER MANUFACTURER'S GUIDELINES IN REGARD TO WELDING AND FASTENING OF DEVICES AND REQUIRED SPACING FOR ANCHORS AND GUIDES. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- P. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PHASING OF WORK.

| HVAC LEGEND | | | |
|--------------------------------------|----------|-------------------------|-----|
| CONDENSATE PIPING | CD | NEW EQUIPMENT | |
| DRAIN PIPING | D | BALL VALVE | |
| STORM DRAIN | SD | GATE VALVE | |
| FIRE PROTECTION LINE | F | GLOBE VALVE | |
| CHILLED WATER SUPPLY | CWS | BUTTERFLY VALVE | |
| CHILLED WATER RETURN | CWR | CHECK VALVE | |
| HEATING WATER SUPPLY | HWS | BALANCING VALVE | |
| HEATING WATER RETURN | HWR | 2-WAY CONTROL VALVE | |
| TEMPERATURE SENSOR | T | 3-WAY CONTROL VALVE | |
| HUMIDITY SENSOR | H | PRESSURE REDUCING VALVE | |
| CO2 SAMPLE PORT | CO2 | RELIEF VALVE | |
| BUILDING MANAGEMENT SYSTEM | BMS | GAS COCK | |
| SPLITTER DAMPER | | FLOW MEASURING DEVICE | |
| FLEXIBLE CONNECTION | | REDUCER | |
| VOLUME DAMPER | | MANUAL AIR VENT | |
| MOTORIZED DAMPER | | GAGE COCK | |
| FIRE DAMPER OR SMOKE DAMPER | FD OR SD | WYE STRAINER | |
| BRANCH TAP FITTING | | UNION | |
| TURNING VANES | | THERMOMETER | |
| GRILL MARK/CFM QUANTITY | A 300 | THERMOMETER WELL | |
| SUPPLY DUCT SECTION | | GAUGE | |
| RETURN DUCT SECTION | | CONNECT TO EXISTING | |
| OUTSIDE VENTILATION AIR DUCT SECTION | | LIMIT OF DEMOLITION | |
| ROUND DUCT SIZE - INCHES | 12 | ELBOW TURNING DOWN | |
| RECTANGULAR DUCT SIZE - INCHES | 12x12 | ELBOW TURNING UP | |
| OVAL DUCT SIZE - INCHES | 12/12 | DIRECTION OF FLOW | |
| ELBOW UP (SUPPLY) | | FUEL OIL SUPPLY | FOS |
| ELBOW DOWN (SUPPLY) | | FUEL OIL RETURN | FOR |
| PLAN NOTE DESIGNATION | # | | |

HVAC ABBREVIATIONS

| | | | | | |
|-----|----------------------------|-----|-----------------------|-----|---------------------|
| AD | ACCESS DOOR | ER | EXHAUST REGISTER | RA | RETURN AIR |
| AFF | ABOVE FINISHED FLOOR | FC | FLEXIBLE CONNECTION | RAG | RETURN AIR GRILL |
| AL | ACOUSTICAL LINING | FD | FIRE DAMPER | RAR | RETURN AIR REGISTER |
| AMD | AUTOMATIC MOTORIZED DAMPER | HC | HEATING COIL | TR | TOP REGISTER |
| BE | BOTTOM ELEVATION | HPS | HIGH PRESSURE STEAM | VAV | VARIABLE AIR VOLUME |
| BR | BOTTOM REGISTER | LPS | LOW PRESSURE STEAM | VD | VOLUME DAMPER |
| CD | CEILING DIFFUSER | MPS | MEDIUM PRESSURE STEAM | WMS | WIRE MESH SCREEN |
| CR | CEILING REGISTER | NTS | NOT TO SCALE | | |
| CL | CENTERLINE | OA | OUTSIDE AIR | | |

| DUCT SEALING & TESTING TABLE | | | | | |
|---|---------------------------------------|--------------------------------------|--------------------|---|-------------------------------|
| DUCT LOCATION | POSITIVE (P) OR NEGATIVE (N) PRESSURE | MIN. PRESS. CLASS/TEST PRESS (IN WG) | DUCT SEALING LEVEL | ALLOWABLE LEAKAGE AT DESIGN AIRFLOW (%) | PERCENTAGE OF DUCT TESTED (%) |
| VRF SUPPLY DUCTS | P | 1 | A | 1 | 100 |
| ALL RETURN AND EXHAUST DUCTS | N | 1 | A | - | - |
| FROM PACKAGED UNIT SUPPLY DISCHARGE TO AIR TERMINAL CONNECTIONS | P | 2 | A | 1 | 10' |

- PROJECT ENGINEER TO SELECT SECTIONS OF DUCTWORK APPROXIMATELY 1 WEEK PRIOR TO TESTING.

DUCT SEALING DEFINITIONS

- LEVEL A:** ALL TRAVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS. PRESSURE-SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT.
- LEVEL B:** ALL TRAVERSE JOINTS AND LONGITUDINAL SEAMS. PRESSURE-SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT.
- LEVEL C:** TRAVERSE JOINTS ONLY.
- GENERAL:** LONGITUDINAL SEAMS ARE JOINTS ORIENTED IN THE DIRECTION OF AIRFLOW. TRAVERSE JOINTS ARE CONNECTIONS OF TWO DUCT SECTIONS ORIENTED PERPENDICULAR TO AIRFLOW. DUCT WALL PENETRATIONS ARE OPENINGS MADE BY ANY SCREW FASTENER, PIPE, ROD, OR WIRE. SPIRAL LOCK SEAMS IN A ROUND AND FLAT OVAL DUCT NEED NOT BE SEALED. ALL OTHER CONNECTIONS ARE CONSIDERED TRAVERSE JOINTS, INCLUDING BUT NOT LIMITED TO SPIN-INS, CONICAL TAPS. OTHER BRANCH CONNECTIONS, ACCESS DOOR FRAMES AND JAMBS, DUCT CONNECTIONS TO EQUIPMENT, FIRE DAMPERS, SMOKE DAMPERS, ETC.



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| BY | MISSISSIPPI DEPARTMENT OF TRANSPORTATION DISTRICT 3 MATERIALS LAB HVAC AND LIGHTING REPLACEMENT |
| REVISION | HVAC GENERAL NOTES & LEGEND |
| DATE | Project Number: BWO-3074-82(004) COUNTY: YAZOO FILENAME: BWO-3074-82(004)-M-001.dgn DESIGN TEAM: CDFL CHECKED: DRL DATE: 10/16/17 |
| WORKING NUMBER | M-001 |
| SHEET NUMBER | 10 |

