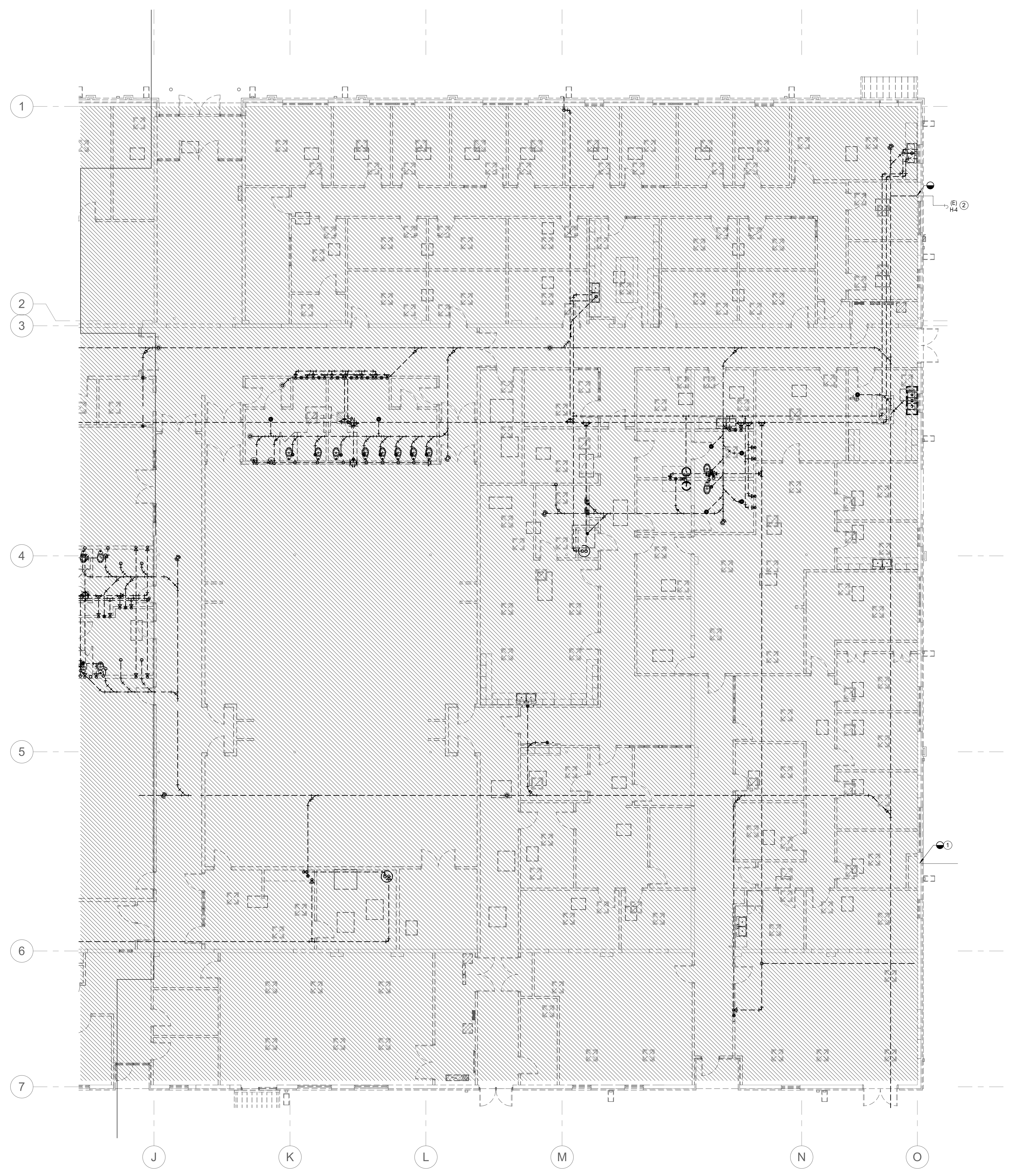


- DEMOLITION NOTES:**
- A. EXISTING CONDITIONS CREATED FROM BEST AVAILABLE INFORMATION NOTIFY ENGINEER OF DISCREPANCIES IMMEDIATELY
 - B. COORDINATE DEMOLITION EFFORTS WITH OTHER TRADES AND REVIEW ARCHITECTURE DRAWINGS PRIOR TO START OF WORK
 - C. ALL EXISTING WATER HEATERS, ASSOCIATED PUMPS WHERE APPLICABLE AND ANY OTHER PLUMBING EQUIPMENT SHALL BE REMOVED AND TURNED OVER TO OWNER
 - D. ALL EXISTING DOMESTIC WATER PIPING AND EXISTING SANITARY PIPING ABOVE SLAB AND BELOW SLAB SHALL BE REMOVED IN AREA OF DEMOLITION.

- KEYNOTES:**
- 1. EXISTING DOMESTIC WATER DROP TO BELOW SLAB TO REMAIN. LINE FEEDS EXISTING OUT BUILDINGS. LINE TO BE RECONNECTED UNDER NEW WORK. COORDINATE WITH OWNER AND CM FOR WATER SHUTDOWN TO MINIMIZE DOWN TIME.
 - 2. EXISTING YARD HYDRANT TO REMAIN. DISCONNECT PIPING AT BUILDING ENTRANCE. PREPARE PIPING TO BE RECONNECTED IN NEW WORK.



1 PLUMBING DEMOLITION PLAN - AREA A
1/8" = 1'-0"

This drawing is the property of Smith Sinnett Architecture, P.A. The reproduction or use of this drawing without the written consent of the owner is prohibited. In the event of any dispute, the user shall be subject to the jurisdiction of the courts of the state of North Carolina. Smith Sinnett Architecture, P.A. 2024

**Onslow County Senior Service Center
Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540**

ID	DATE	DESCRIPTION

DRAWN BY: JGG
CHECKED BY: SWC

**DEMOLITION PLAN
A**

2021029 16 OCT. 2024

P0-11

ID	DATE	DESCRIPTION

DRAWN BY: JGG
CHECKED BY: SWC

**DEMOLITION PLAN
B**

2021029 16 OCT. 2024

P0-12

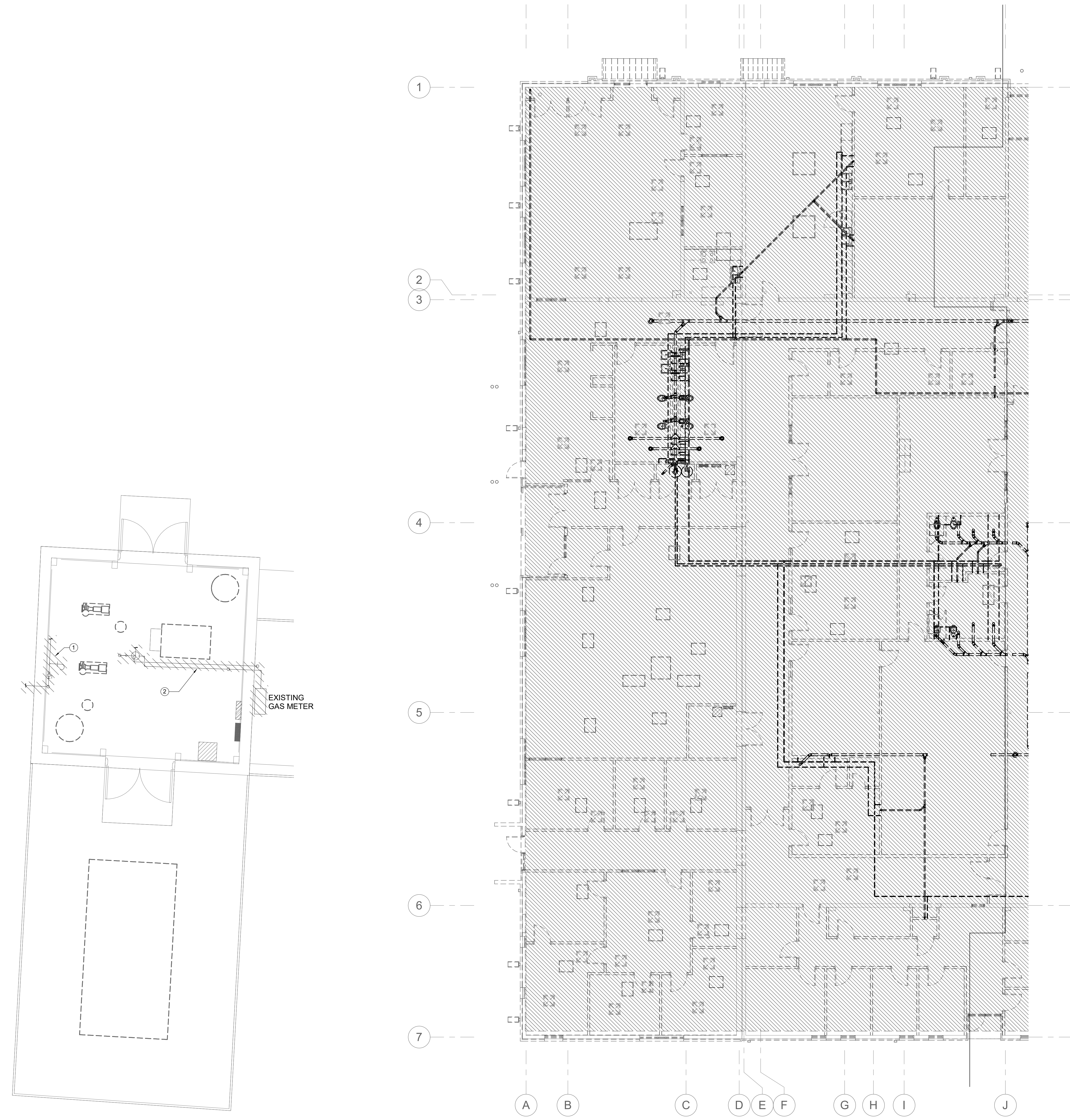


DEMOLITION NOTES:

- A. EXISTING CONDITIONS CREATED FROM BEST AVAILABLE INFORMATION NOTIFY ENGINEER OF DISCREPANCIES IMMEDIATELY
- B. COORDINATE DEMOLITION EFFORTS WITH OTHER TRADES AND REVIEW ARCHITECTURE DRAWINGS PRIOR TO START OF WORK
- C. ALL EXISTING WATER HEATERS, ASSOCIATED PUMPS WHERE APPLICABLE AND ANY OTHER PLUMBING EQUIPMENT SHALL BE REMOVED AND TURNED OVER TO OWNER
- D. ALL EXISTING DOMESTIC WATER PIPING AND EXISTING SANITARY PIPING ABOVE SLAB AND BELOW SLAB SHALL BE REMOVED IN AREA OF DEMOLITION.

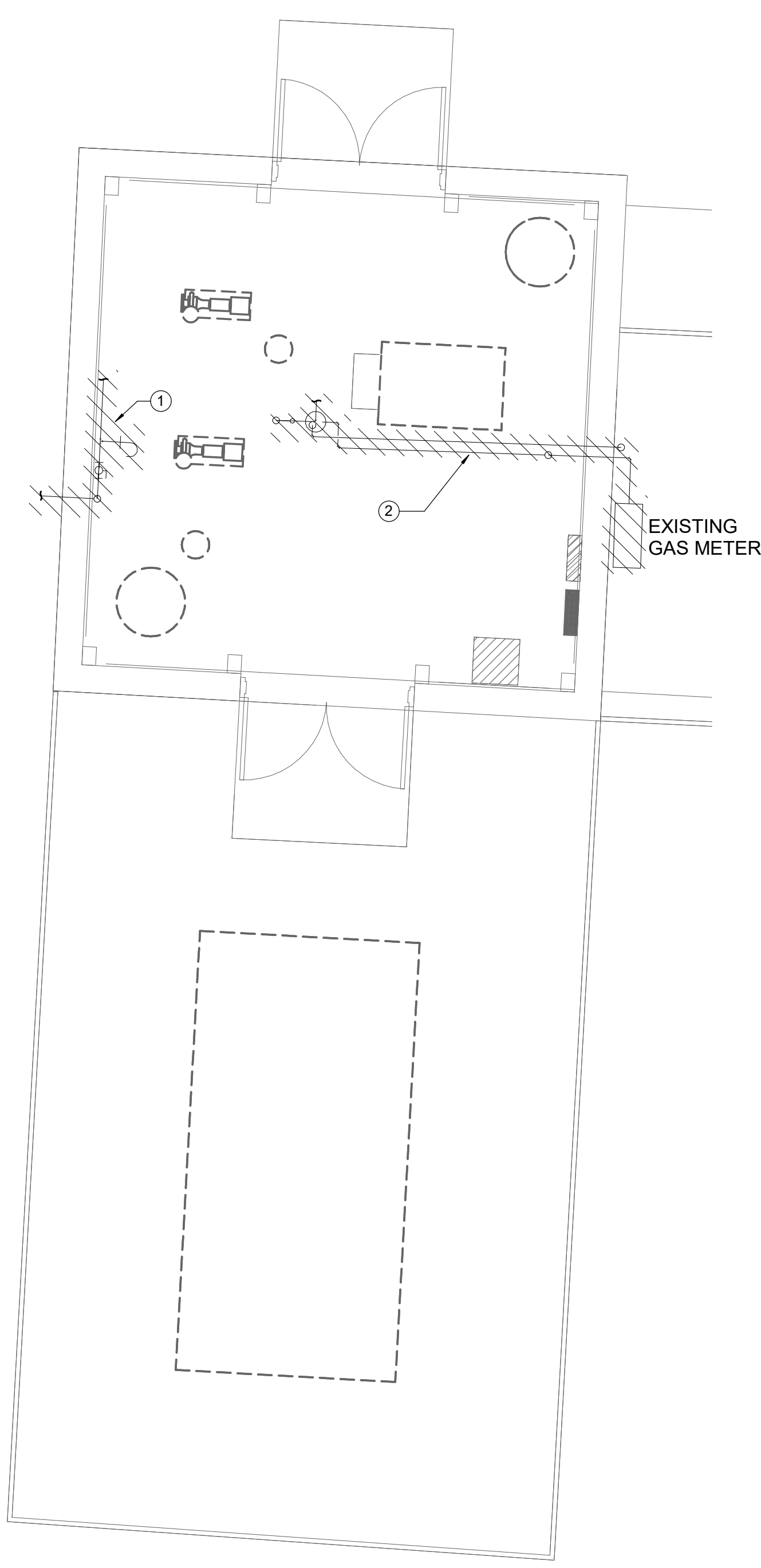
KEYNOTES:

- 1. DEMO DOMESTIC MAKE-UP WATER BACK TO HOSE BIBB AND CAP. HOSE BIBB TO REMAIN.
- 2. REMOVE GAS PIPING & APPURTENANCES BACK TO METER. SITE PIPING AND METER TO BE RELOCATED BY UTILITY COMPANY.



2 DEMOLITION PLAN - MECHANICAL BUILDING
1/4" = 1'-0"

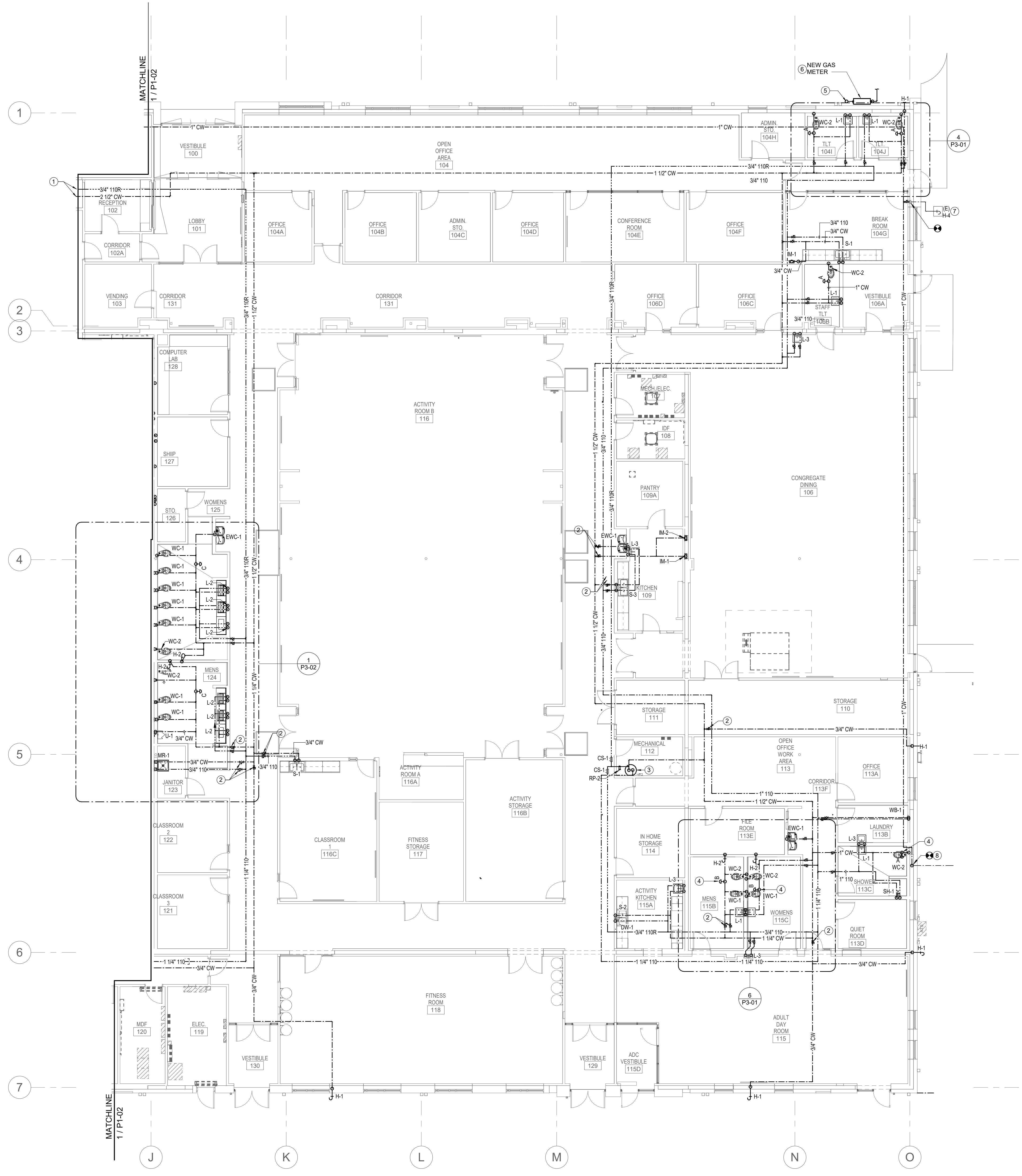
1 PLUMBING DEMOLITION PLAN - AREA B
1/8" = 1'-0"



EXISTING GAS METER

- GENERAL NOTES:**
- ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE.
 - ALL PIPING ROUTING AND HANGER AND SUPPORT INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK.
 - ALL BELOW SLAB WASTE PIPING AND WVERTS SHALL BE COORDINATED WITH CIVIL DRAWINGS AND STRUCTURAL CONCRETE FOUNDATIONS AND FOOTINGS PRIOR TO THE START OF WORK.
 - COORDINATE INSTALLATION OF ROUGH-INS AND FIXTURES WITH CASEWORK/MILLWORK SHOWN IN THE ARCHITECTURE DRAWINGS AND FIELD VERIFY LAYOUT WITH ACCESSIBILITY REQUIREMENTS PRIOR TO START OF WORK AND AFTER ROUGH-IN.
 - PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED SO THAT NO PIPING IS SUBJECT TO BENDING AND/OR DEFLECTION.
 - PROVIDE NEW WATER HAMMER ARRESTORS ON COLD WATER PIPING JUST UPSTREAM OF THE LAST FLUSH VALVE FIXTURE FOR EACH COLD WATER BRANCH SERVING FLUSH VALVE FIXTURES - SIZED AS NEEDED ACCORDING TO SCHEDULE ON SHEET P001 AND ACCESSIBLE FOR FUTURE REPLACEMENT - COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
 - PROVIDE FULL-PORT TWO-PIECE ALL BRONZE BALL VALVES ON DOMESTIC HOT AND COLD WATER PIPING ABOVE CEILING WHERE NECESSARY TO ISOLATE EACH TOILET ROOM INDEPENDENTLY FOR FUTURE REPAIRS OR MAINTENANCE - COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN.
 - PLUMBING PIPING SHALL BE ACCESSIBLE WHERE POSSIBLE AND INSTALLED SO THAT NORMAL THERMAL EXPANSION OR CONTRACTION DOES NOT AFFECT THE PERFORMANCE OF THE SYSTEM - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS REQUIRE EXPANSION OR CONTRACTION MEASURES BEYOND THAT SHOWN IN THESE DRAWINGS.
 - DOMESTIC HOT AND COLD WATER SUPPLY AND/OR RETURN/RECIRC. PIPING SHALL BE INSULATED AS REQUIRED AND AS SPECIFIED AND SHALL INCLUDE BRANCH SHUT-OFF VALVES AS SHOWN - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS CREATE THE NEED FOR ADDITIONAL VALVES BEYOND THAT SHOWN IN THESE DRAWINGS.
 - PROVIDE AS-BUILT DRAWINGS THAT INCLUDE FINAL LAYOUTS, DETAILS OF ALL CONNECTION POINTS, AND OTHER PERTINENT DATA. FIELD APPLIED IDENTIFICATION TAGS AND NAMEPLATES MUST MATCH AS-BUILT DRAWINGS.
 - REFER TO CORRESPONDING RISER DIAGRAM DRAWINGS FOR ADDITIONAL PIPE SIZE INFORMATION AND ISOMETRIC VIEWS OF GENERAL PIPING ARRANGEMENTS.

- KEYNOTES:**
- SEE SHEET P1-02 FOR CONTINUATION.
 - PROVIDE SHUT-OFF VALVE TO WATER BRANCH PIPES IN ACCESSIBLE LOCATION. VALVE TO MATCH PIPE SIZE. COORDINATE VALVE LOCATION WITH ALL OTHER TRADES FOR ACCESSIBILITY.
 - REFER TO SHEET P6-01. SEE ELECTRIC WATER HEATER DETAIL #.
 - PROVIDE WATER HAMMER ARRESTOR ON WATER PIPE BRANCHES AS INDICATED. REFER TO SHEET P001. SEE WATER HAMMER ARRESTOR SCHEDULE FOR SIZES. PROVIDE ACCESS DOOR AS REQUIRED FOR DEVICES. COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
 - 2" GAS PIPING UP TO ROOF TO SERVE MECHANICAL EQUIPMENT. SEE SHEET P2-03 FOR CONTINUATION.
 - NEW GAS METER LOCATION BY GAS UTILITY COMPANY. COORDINATE WITH UTILITIES CONTRACTOR.
 - RECONNECT EXISTING YARD HYDRANT TO NEW WATER SUPPLY.
 - RECONNECT TO EXISTING DOMESTIC WATER DROP LINE FEEDS EXISTING OUT BUILDINGS. MAKE ADJUSTMENTS AS REQUIRED TO LAY WITHIN NEW 3/8" STD. WALL TIGHT TO EXISTING CMU. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.



1 DOMESTIC WATER PLAN - AREA A

0' 2' 4' 6' 8' 10'

1/8" = 1'-0"

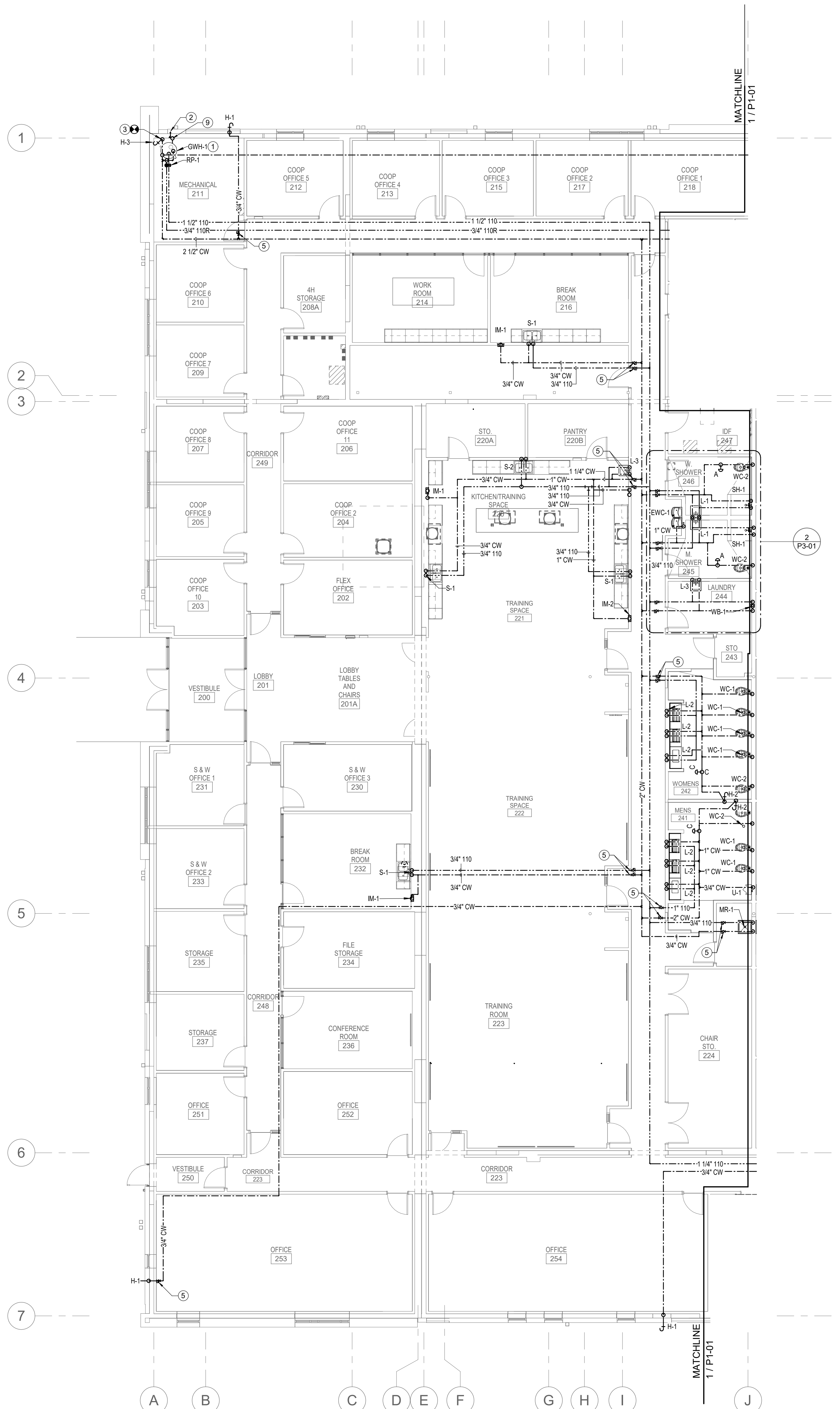
This drawing is the property of Smith Sinnett Architecture, P.A. The reproduction or use of this drawing without the written consent of the professional is prohibited. The liability of the drafter shall be subject to the terms and conditions of the contract. Smith Sinnett Architecture, P.A. 2024

THIS DRAWING IS LIMITED TO BE PRINTED ON A 22" X 34" SHEET.

Onslow County Senior Service Center
Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540

ID	DATE	DESCRIPTION
----	------	-------------

DRAWN BY: JGG
CHECKED BY: SWC
DOMESTIC WATER PLAN - AREA A



- GENERAL NOTES:**
- ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE.
 - ALL PIPING ROUTING AND HANGER AND SUPPORT INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK.
 - ALL BELOW SLAB WASTE PIPING AND INVERTS SHALL BE COORDINATED WITH CIVIL DRAWINGS AND STRUCTURAL CONCRETE FOUNDATIONS AND FOOTINGS PRIOR TO THE START OF WORK.
 - COORDINATE INSTALLATION OF ROUGH-INS AND FIXTURES WITH CASEWORK/MLLWORK SHOWN IN THE ARCHITECTURE DRAWINGS AND FIELD VERIFY LAYOUT WITH ACCESSIBILITY REQUIREMENTS PRIOR TO START OF WORK AND AFTER ROUGH-IN.
 - PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED SO THAT NO PIPING IS SUBJECT TO BENDING AND/OR DEFLECTION.
 - PROVIDE NEW WATER HAMMER ARRESTORS ON COLD WATER PIPING JUST UPSTREAM OF THE LAST FLUSH VALVE FIXTURE FOR EACH COLD WATER BRANCH SERVING FLUSH VALVE FIXTURES - SIZED AS NEEDED ACCORDING TO SCHEDULE ON SHEET P1-01 AND ACCESSIBLE FOR FUTURE REPLACEMENT - COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
 - PROVIDE FULL-PORT TWO-PIECE ALL BRONZE BALL VALVES ON DOMESTIC HOT AND COLD WATER PIPING ABOVE CEILING WHERE NECESSARY TO ISOLATE EACH TOILET ROOM INDEPENDENTLY FOR FUTURE REPAIRS OR MAINTENANCE - COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN.
 - PLUMBING PIPING SHALL BE ACCESSIBLE WHERE POSSIBLE AND INSTALLED SO THAT NORMAL THERMAL EXPANSION OR CONTRACTION DOES NOT AFFECT THE PERFORMANCE OF THE SYSTEM - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS REQUIRE EXPANSION OR CONTRACTION MEASURES BEYOND THAT SHOWN IN THESE DRAWINGS.
 - DOMESTIC HOT AND COLD WATER SUPPLY AND/OR RETURN/RECIRC. PIPING SHALL BE INSULATED AS REQUIRED AND AS SPECIFIED AND SHALL INCLUDE BRANCH SHUT-OFF VALVES AS SHOWN - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS CREATE THE NEED FOR ADDITIONAL VALVES BEYOND THAT SHOWN IN THESE DRAWINGS.
 - PROVIDE AS-BUILT DRAWINGS THAT INCLUDE FINAL LAYOUTS, DETAILS OF ALL CONNECTION POINTS AND OTHER PERTINENT DATA. FIELD APPLIED IDENTIFICATION TAGS AND NAMEPLATES MUST MATCH AS-BUILT DRAWINGS.
 - REFER TO CORRESPONDING RISER DIAGRAM DRAWINGS FOR ADDITIONAL PIPE SIZE INFORMATION AND ISOMETRIC VIEWS OF GENERAL PIPING ARRANGEMENTS.

- KEYNOTES:**
- PROVIDE MATERIALS AND MAKE FINAL CONNECTION TO WATER HEATER. PROVIDE UL AND FM LISTED FLEXIBLE CONNECTION WITH GAS TRAIN TO INCLUDE 8" DIRT LEG AND GAS SHUTOFF VALVE.
 - VENT THROUGH SIDEWALL WITH CONCENTRIC VENT. REFER TO DETAIL 6 ON SHEET P5-01. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - EXISTING DOMESTIC COLD WATER MAIN SERVICE ENTRANCE RISER. CONNECT TO EXISTING COLD WATER MAIN LOCATED IN MECHANICAL ROOM. FIELD VERIFY EXISTING CONDITIONS TO VERIFY PIPE SIZE OF EQUAL OR GREATER SIZE.
 - SEE SHEET P1-01 FOR CONTINUATION.
 - PROVIDE SHUT-OFF VALVE TO WATER BRANCH PIPES IN ACCESSIBLE LOCATION. VALVE TO MATCH PIPE SIZE. COORDINATE VALVE LOCATION WITH ALL OTHER TRADES FOR ACCESSIBILITY.
 - REFER TO CIVIL PLANS FOR CONTINUATION.
 - PROVIDE HAMMER ARRESTOR ON WATER PIPE BRANCHES AS INDICATED.
 - REFER TO SHEET P0-01. SEE HAMMER ARRESTOR SCHEDULE FOR SIZES. PROVIDE ACCESS DOOR AS REQUIRED FOR MAINTENANCE.
 - PROVIDE 3/4" GAS PIPING DOWN FROM ROOF DECK TO SERVE (199 BTU/H) GAS WATER HEATER. SEE PLUMBING FIXTURE SCHEDULE FOR SPECIFICATIONS.

**Onslow County Senior Service Center
Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540**

ID	DATE	DESCRIPTION

DRAWN BY: JGG
CHECKED BY: SWC

DOMESTIC WATER
PLAN - AREA B

2021029 16 OCT. 2024

P1-02

1 DOMESTIC WATER PLAN - AREA B
0 4 8 16'
1/8" = 1'-0"

Onslow County Senior Service Center
Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540

ID	DATE	DESCRIPTION

DRAWN BY: JGG
CHECKED BY: SWC

WASTE AND VENT PLAN - AREA A

2021029 16 OCT. 2024

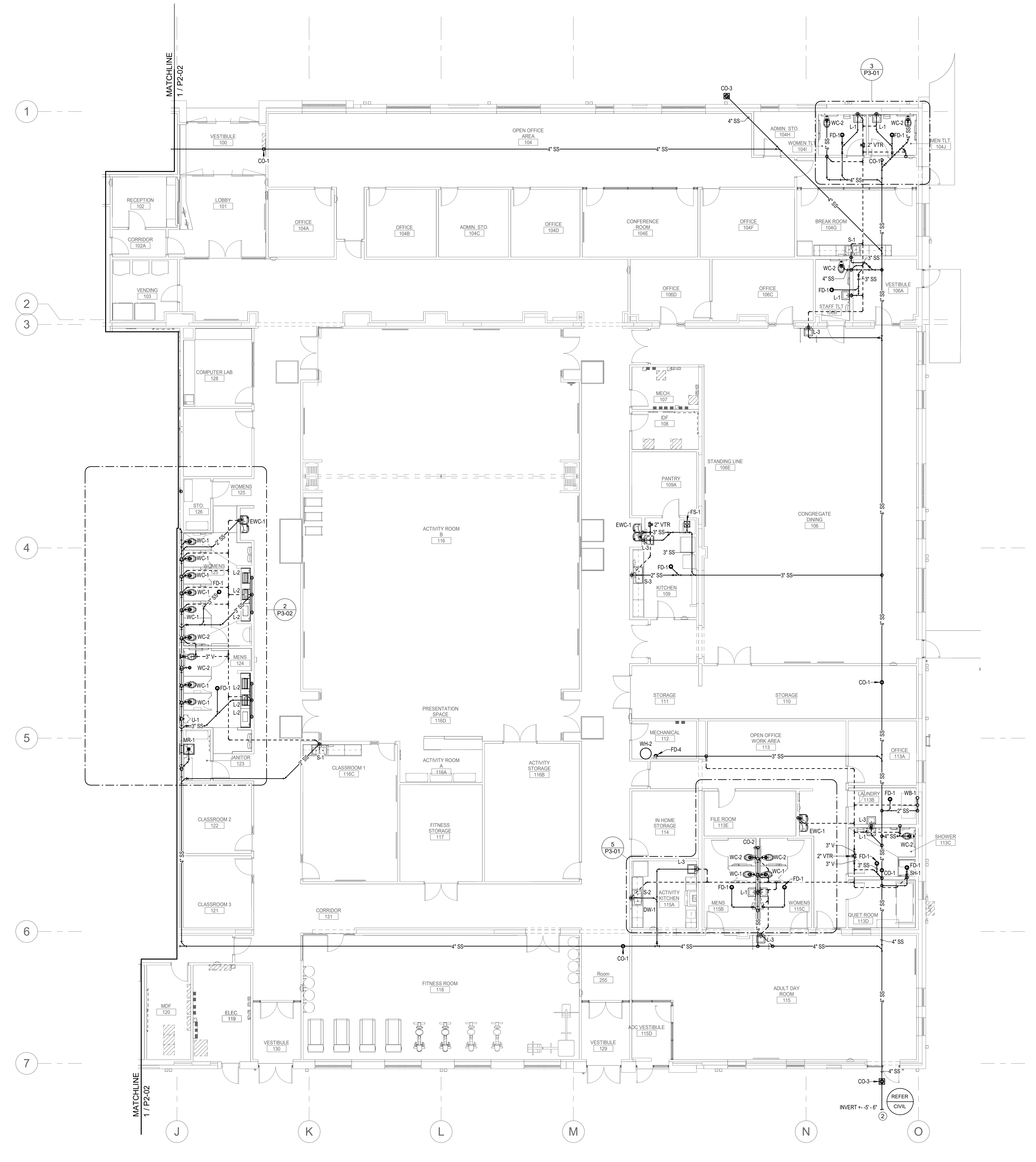
P2-01

GENERAL NOTES:

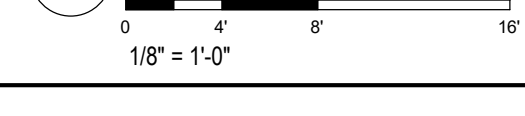
- ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE.
- ALL PIPING ROUTING AND HANGER AND SUPPORT INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK.
- ALL BELOW SLAB WASTE PIPING AND INVERTS SHALL BE COORDINATED WITH CIVIL DRAWINGS AND STRUCTURAL CONCRETE FOUNDATIONS AND FOOTINGS PRIOR TO THE START OF WORK.
- COORDINATE INSTALLATION OF ROUGH-INS AND FIXTURES WITH CASEWORK/MILLWORK SHOWN IN THE ARCHITECTURE DRAWINGS AND FIELD VERIFY LAYOUT WITH ACCESSIBILITY REQUIREMENTS PRIOR TO START OF WORK AND AFTER ROUGH-IN.
- PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED SO THAT NO PIPING IS SUBJECT TO BENDING AND/OR DEFLECTION.
- PROVIDE NEW WATER HAMMER ARRESTORS ON COLD WATER PIPING JUST UPSTREAM OF THE LAST FLUSH VALVE FIXTURE FOR EACH COLD WATER BRANCH SERVING FLUSH VALVE FIXTURES - SIZED AS NEEDED ACCORDING TO SCHEDULE ON SHEET P104 AND ACCESSIBLE FOR FUTURE REPLACEMENT - COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
- PROVIDE FULL-PORT TWO-PIECE ALL BRONZE BALL VALVES ON DOMESTIC HOT AND COLD WATER PIPING ABOVE CEILING WHERE NECESSARY TO ISOLATE EACH TOILET ROOM INDEPENDENTLY FOR FUTURE REPAIRS OR MAINTENANCE - COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN.
- PLUMBING PIPING SHALL BE ACCESSIBLE WHERE POSSIBLE AND INSTALLED SO THAT NORMAL THERMAL EXPANSION OR CONTRACTION DOES NOT AFFECT THE PERFORMANCE OF THE SYSTEM - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS REQUIRE EXPANSION OR CONTRACTION MEASURES BEYOND THAT SHOWN IN THESE DRAWINGS.
- DOMESTIC HOT AND COLD WATER SUPPLY AND/OR RETURN/RECIRC. PIPING SHALL BE INSULATED AS REQUIRED AND AS SPECIFIED AND SHALL INCLUDE BRANCH SHUT-OFF VALVES AS SHOWN - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS CREATE THE NEED FOR ADDITIONAL VALVES BEYOND THAT SHOWN IN THESE DRAWINGS.
- PROVIDE AS-BUILT DRAWINGS THAT INCLUDE FINAL LAYOUTS, DETAILS OF ALL CONNECTION POINTS, AND OTHER PERTINENT DATA. FIELD APPLIED IDENTIFICATION TAGS AND NAMEPLATES MUST MATCH AS-BUILT DRAWINGS.
- REFER TO CORRESPONDING RISER DIAGRAM DRAWINGS FOR ADDITIONAL PIPE SIZE INFORMATION AND ISOMETRIC VIEWS OF GENERAL PIPING ARRANGEMENTS.

KEYNOTES:

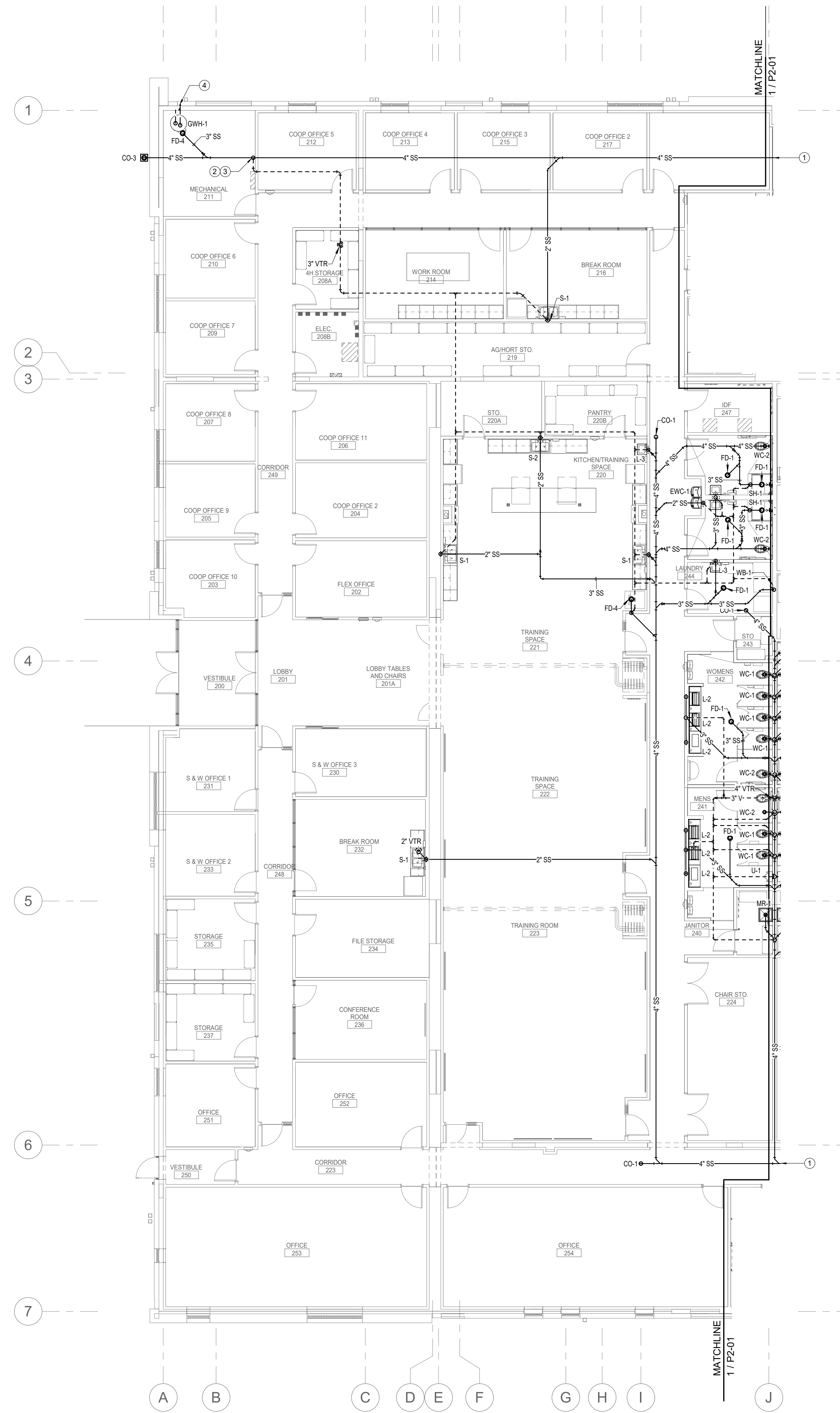
- SEE SHEET P2-02 FOR CONTINUATION.
- PROVIDE MATERIALS AND MAKE CONNECTION TO SANITARY SEWER PIPING PROVIDED BY SITE UTILITY CONTRACTOR.



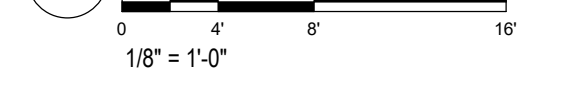
1 WASTE AND VENT PLAN - AREA A



C:\Users\jg\OneDrive\Documents\22074 Onslow County Senior Center MEP_R22_djw\pdc\BIM\10112024\101245.rvt



1 WASTE AND VENT NEW WORK PLAN - AREA B



GENERAL NOTES:

- A. ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE.
- B. ALL PIPING ROUTING AND HANGER AND SUPPORT INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK.
- C. ALL BELOW SLAB WASTE PIPING AND INVERTS SHALL BE COORDINATED WITH CIVIL DRAWINGS AND STRUCTURAL CONCRETE FOUNDATIONS AND FOOTINGS PRIOR TO THE START OF WORK.
- D. COORDINATE INSTALLATION OF ROUGH-INS AND FIXTURES WITH CASEWORK/MILLWORK SHOWN IN THE ARCHITECTURE DRAWINGS AND FIELD VERIFY LAYOUT WITH ACCESSIBILITY REQUIREMENTS PRIOR TO START OF WORK AND AFTER ROUGH-IN.
- E. PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED SO THAT NO PIPING IS SUBJECT TO BENDING AND/OR DEFLECTION.
- F. PROVIDE NEW WATER HAMMER ARRESTORS ON COLD WATER PIPING JUST UPSTREAM OF THE LAST FLUSH VALVE FIXTURE FOR EACH COLD WATER BRANCH SERVING FLUSH VALVE FIXTURES - SIZED AS NEEDED ACCORDING TO SCHEDULE ON SHEET P101 AND ACCESSIBLE FOR FUTURE REPLACEMENT - COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
- G. PROVIDE FULL-PORT TWO-PIECE ALL BRONZE BALL VALVES ON DOMESTIC HOT AND COLD WATER PIPING ABOVE CEILING WHERE NECESSARY TO ISOLATE EACH TOILET ROOM INDEPENDENTLY FOR FUTURE REPAIRS OR MAINTENANCE - COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN.
- H. PLUMBING PIPING SHALL BE ACCESSIBLE WHERE POSSIBLE AND INSTALLED SO THAT NORMAL THERMAL EXPANSION OR CONTRACTION DOES NOT AFFECT THE PERFORMANCE OF THE SYSTEM - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS REQUIRE EXPANSION OR CONTRACTION MEASURES BEYOND THAT SHOWN IN THESE DRAWINGS.
- I. DOMESTIC HOT AND COLD WATER SUPPLY AND/OR RETURN/RECIRC. PIPING SHALL BE INSULATED AS REQUIRED AND AS SPECIFIED AND SHALL INCLUDE BRANCH SHUT-OFF VALVES AS SHOWN - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS CREATE THE NEED FOR ADDITIONAL VALVES BEYOND THAT SHOWN IN THESE DRAWINGS.
- J. PROVIDE AS-BUILT DRAWINGS THAT INCLUDE FINAL LAYOUTS, DETAILS OF ALL CONNECTION POINTS AND OTHER PERTINENT DATA. FIELD APPLIED IDENTIFICATION TAGS AND NAMEPLATES MUST MATCH AS-BUILT DRAWINGS.
- K. REFER TO CORRESPONDING RISER DIAGRAM DRAWINGS FOR ADDITIONAL PIPE SIZE INFORMATION AND ISOMETRIC VIEWS OF GENERAL PIPING ARRANGEMENTS.

KEYNOTES:

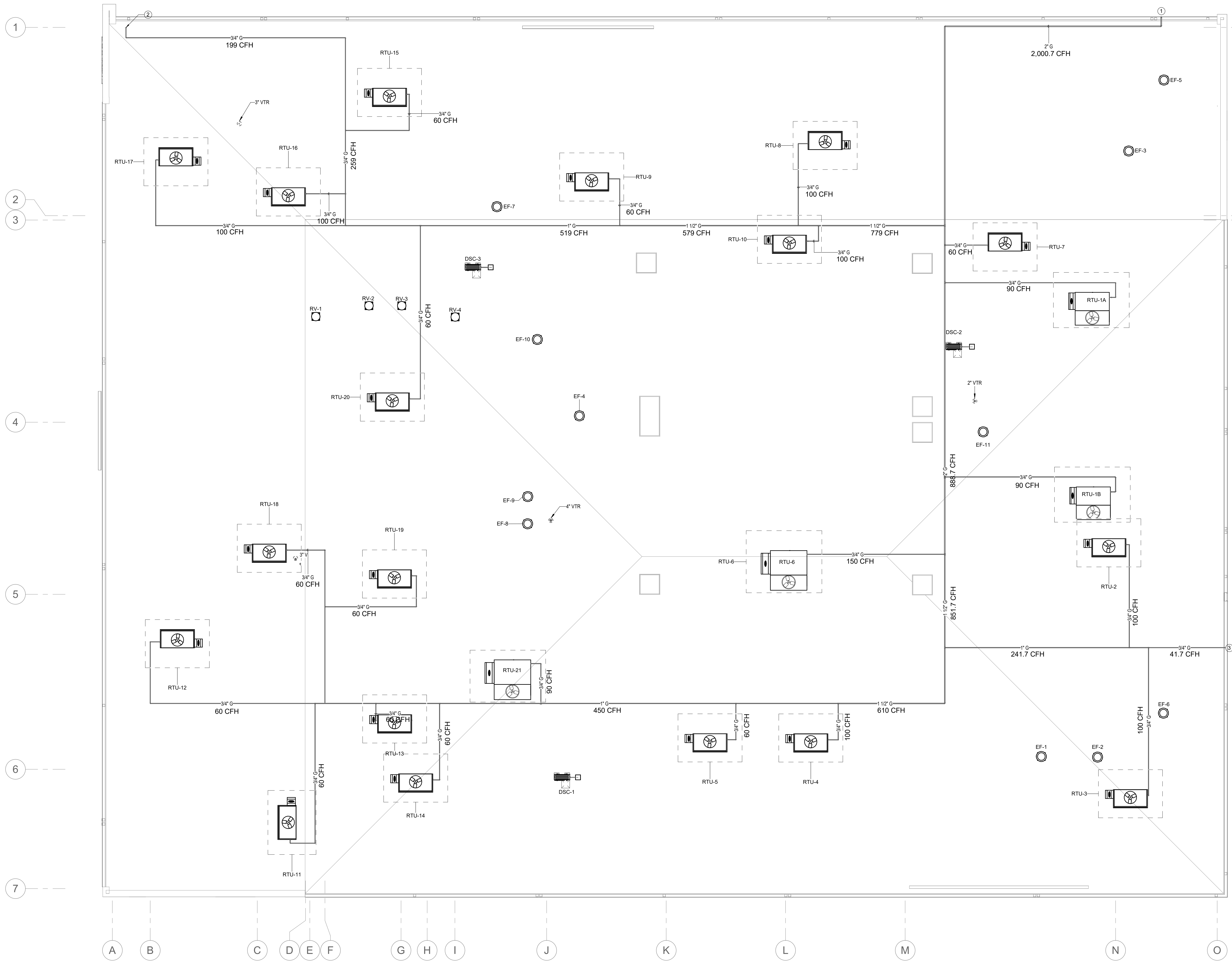
- 1. SEE SHEET P2-01 FOR CONTINUATION.
- 2. 2" VENT PIPING UP.
- 3. COORDINATE PIPE ROUTING IN THIS AREA PRIOR TO START OF WORK - PIPING RISE AND DROP LOCATIONS SHALL BE COORDINATED WITH MECHANICAL SUBCONTRACTOR WORKING IN SAME AREA.
- 4. REFER TO DETAIL 6 ON SHEET P601 FOR INSTRUCTIONS CORRESPONDING TO THE INSTALLATION OF THE CONCENTRIC VENT FOR THE GAS WATER HEATER.

Onslow County Senior Service Center
Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540

ID	DATE	DESCRIPTION

DRAWN BY: JGG
CHECKED BY: SWC

WASTE AND VENT
PLAN - AREA B



KEYNOTES:

1. 2" GAS PIPING FROM BELOW TO SERVE MECHANICAL EQUIPMENT.
2. 3/4" GAS DOWN THROUGH ROOF TO SERVE GWH-1 (199 BTUH).
3. 3/4" GAS PIPING DOWN TO SERVE ELECTRICAL GENERATOR. SEE GAS RISER FOR CONTINUATION.

1 PLUMBING ROOF PLAN
1/8" = 1'-0"

This drawing shall be used only in accordance with the project and shall not be reproduced, copied, or used in any other project without the written consent of the author. The user of this drawing shall be responsible for all errors and omissions and shall be subject to all applicable laws and regulations. This drawing is the property of Smith Sinnett Architecture, P.A. and shall not be loaned, copied, or reproduced without the written consent of the author. Smith Sinnett Architecture, P.A. 2024

THIS DRAWING IS CONSIDERED TO BE PRINTED ON A 32" X 42" SHEET

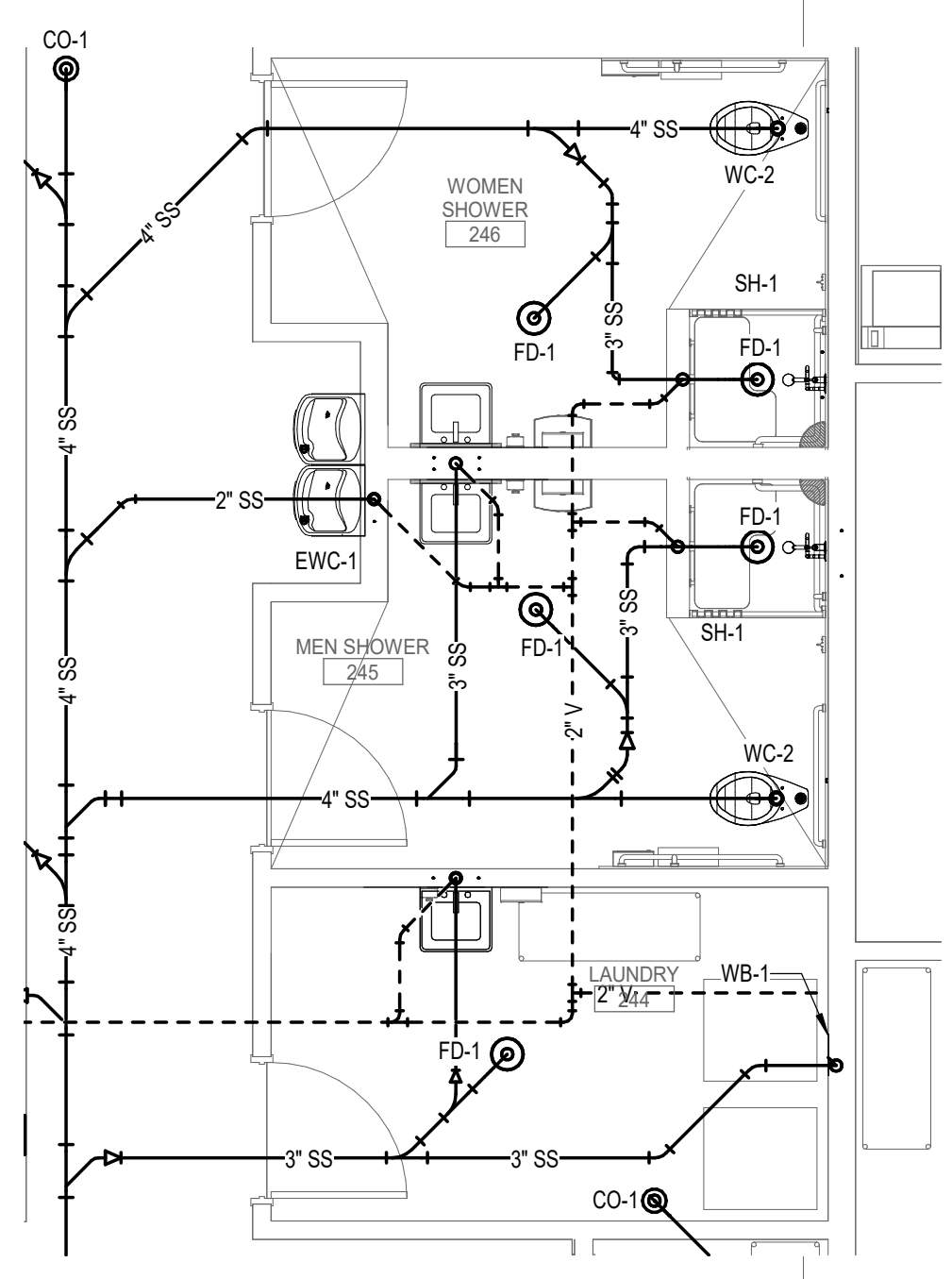
Onslow County Senior Service Center
Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540

ID	DATE	DESCRIPTION

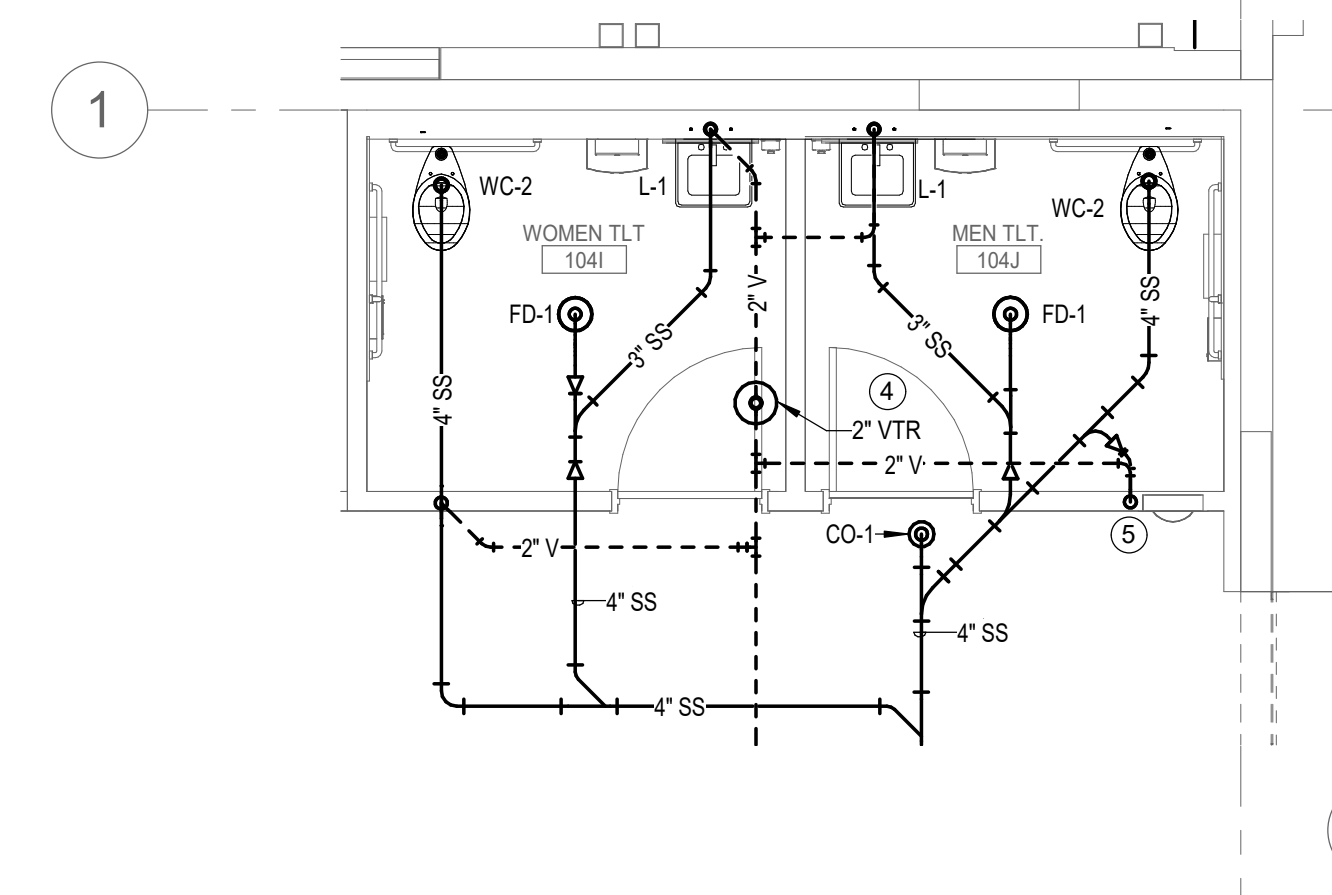
DRAWN BY: JGG
CHECKED BY: SWC
GAS ROOF PIPING PLAN

- GENERAL NOTES:**
- ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE
 - ALL PIPING ROUTING AND HANGER AND SUPPORT INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK
 - ALL BELOW SLAB WASTE PIPING AND INVERTS SHALL BE COORDINATED WITH CIVIL DRAWINGS AND STRUCTURAL CONCRETE FOUNDATIONS AND FOOTINGS PRIOR TO THE START OF WORK
 - COORDINATE INSTALLATION OF ROUGH-INS AND FIXTURES WITH CASEWORK/ILLWORK SHOWN IN THE ARCHITECTURE DRAWINGS AND FIELD VERIFY LAYOUT WITH ACCESSIBILITY REQUIREMENTS PRIOR TO START OF WORK AND AFTER ROUGH-IN
 - PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED SO THAT NO PIPING IS SUBJECT TO BENDING AND/OR DEFLECTION
 - PROVIDE NEW WATER HAMMER ARRESTORS ON COLD WATER PIPING JUST UPSTREAM OF THE LAST FLUSH VALVE FIXTURE FOR EACH COLD WATER BRANCH SERVING FLUSH VALVE FIXTURES- SIZED AS NEEDED ACCORDING TO SCHEDULE ON SHEET PFD AND ACCESSIBLE FOR FUTURE REPLACEMENT -COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS
 - PROVIDE FULL-PORT TWO-PIECE ALL BRONZE BALL VALVES ON DOMESTIC HOT AND COLD WATER PIPING ABOVE CEILING WHERE NECESSARY TO ISOLATE EACH TOILET ROOM INDEPENDENTLY FOR FUTURE REPAIRS OR MAINTENANCE- COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN
 - PLUMBING PIPING SHALL BE ACCESSIBLE WHERE POSSIBLE AND INSTALLED SO THAT NORMAL THERMAL EXPANSION OR CONTRACTION DOES NOT AFFECT THE PERFORMANCE OF THE SYSTEM- PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS REQUIRE EXPANSION OR CONTRACTION MEASURES BEYOND THAT SHOWN IN THESE DRAWINGS
 - DOMESTIC HOT AND COLD WATER SUPPLY AND/OR RETURN/RECIRC. PIPING SHALL BE INSULATED AS REQUIRED AND AS SPECIFIED AND SHALL INCLUDE BRANCH SHUT-OFF VALVES AS SHOWN- PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS CREATE THE NEED FOR ADDITIONAL VALVES BEYOND THAT SHOWN IN THESE DRAWINGS
 - PROVIDE AS-BUILT DRAWINGS THAT INCLUDE FINAL LAYOUTS, DETAILS OF ALL CONNECTION POINTS, AND OTHER PERTINENT DATA. FIELD APPLIED IDENTIFICATION TAGS AND NAMEPLATES MUST MATCH AS-BUILT DRAWINGS
 - REFER TO CORRESPONDING RISER DIAGRAM DRAWINGS FOR ADDITIONAL PIPE SIZE INFORMATION AND ISOMETRIC VIEWS OF GENERAL PIPING ARRANGEMENTS

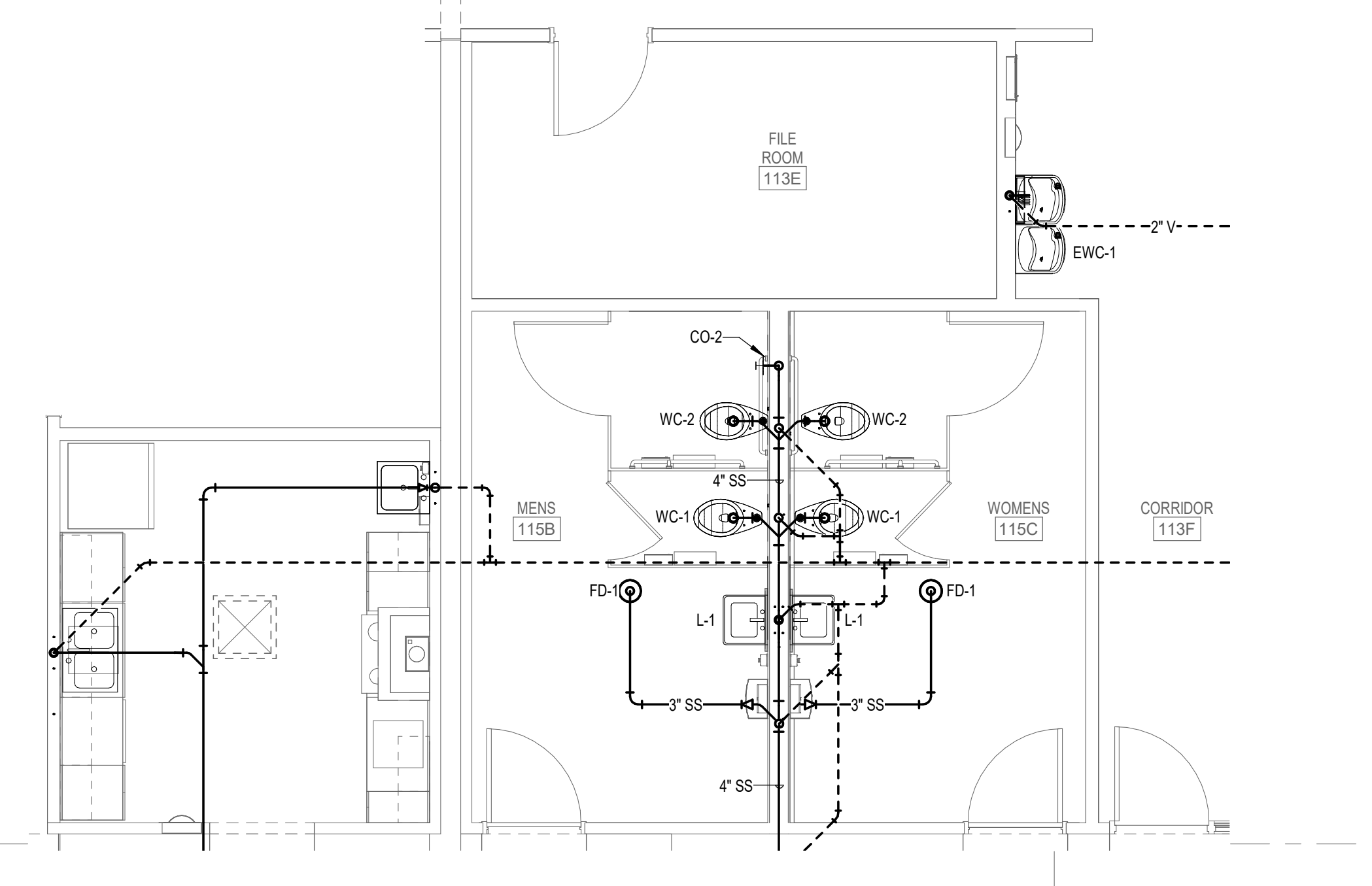
- KEYNOTES:**
- PROVIDE HAMMER ARRESTOR ON WATER PIPE BRANCHES AS INDICATED. REFER TO SHEET PFD-01. SEE HAMMER ARRESTOR SCHEDULE FOR SIZES. PROVIDE ACCESS DOOR AS REQUIRED FOR DEVICES LOCATED ON HARD CEILINGS FOR MAINTENANCE. COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
 - PROVIDE BALANCING VALVE, (CIRCUIT SETTER) WITH INTEGRATED CHECK AND SHUT-OFF VALVES ON ALL HOT WATER RECIRCULATING BRANCHES CONNECTING BACK TO RECIRCULATING MAIN. INSTALL THE VALVE IN ACCESSIBLE LOCATION AS CLOSE TO THE RETURN MAIN AS POSSIBLE FOR EASY ADJUSTING. COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
 - PROVIDE SHUT-OFF VALVE TO WATER BRANCH PIPES IN ACCESSIBLE LOCATION. VALVE TO MATCH PIPE SIZE. COORDINATE VALVE LOCATION WITH ALL OTHER TRADES FOR ACCESSIBILITY. PROVIDE ACCESS DOOR AS REQUIRED FOR VALVES LOCATED ON HARD CEILINGS. COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
 - VENT PIPING UP TO VTR - REFER TO ROOF PLAN
 - RUN 2" VENT HORIZONTAL BELOW SLAB OVER TO WALL AND RISE UP TO CEILING. CONTINUE AS SHOWN ON PLAN.



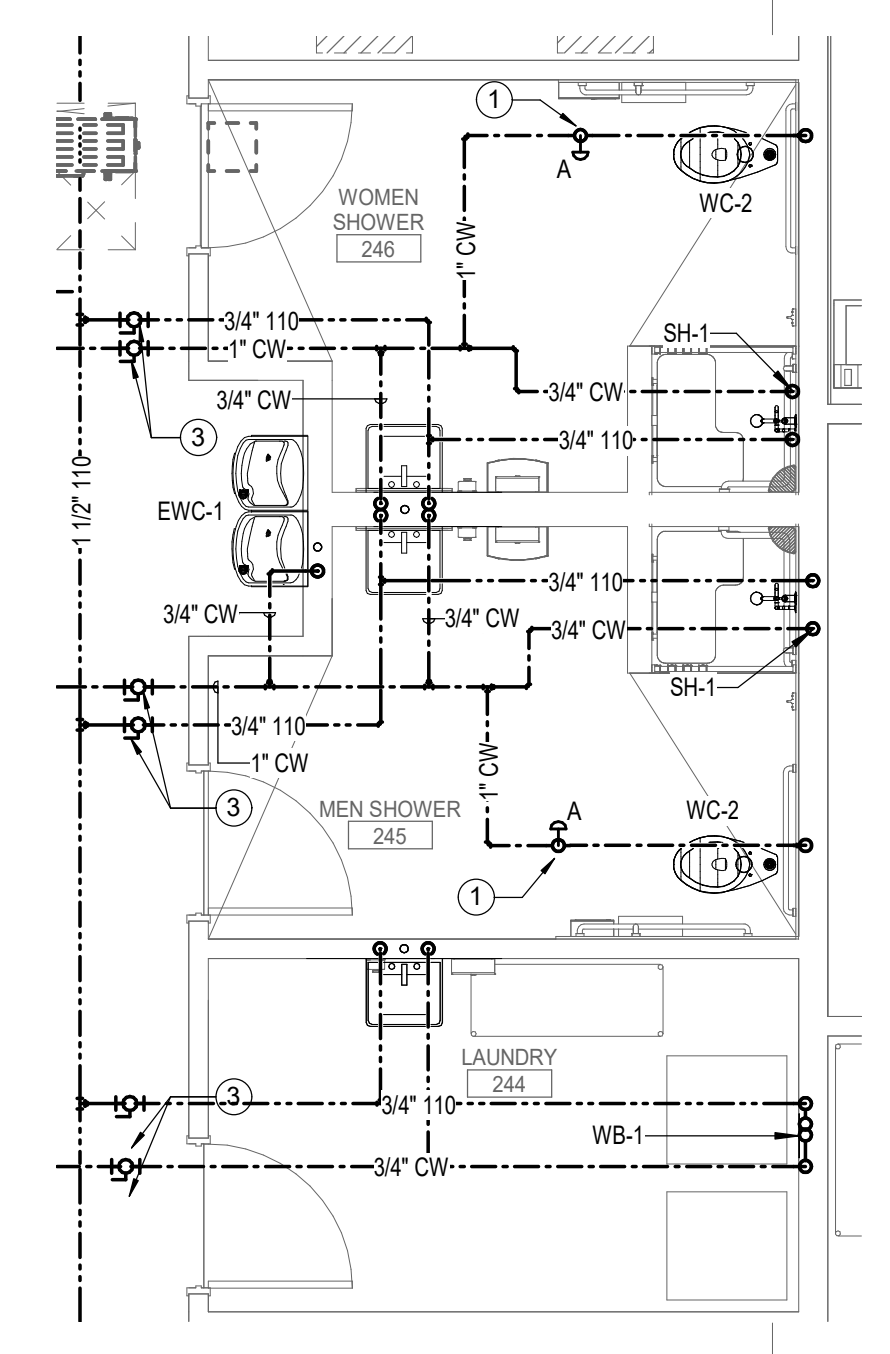
1 ENLARGED WASTE AND VENT PLAN - AREA A - LAUNDRY AND SHOWER 245,246
1/4" = 1'-0"



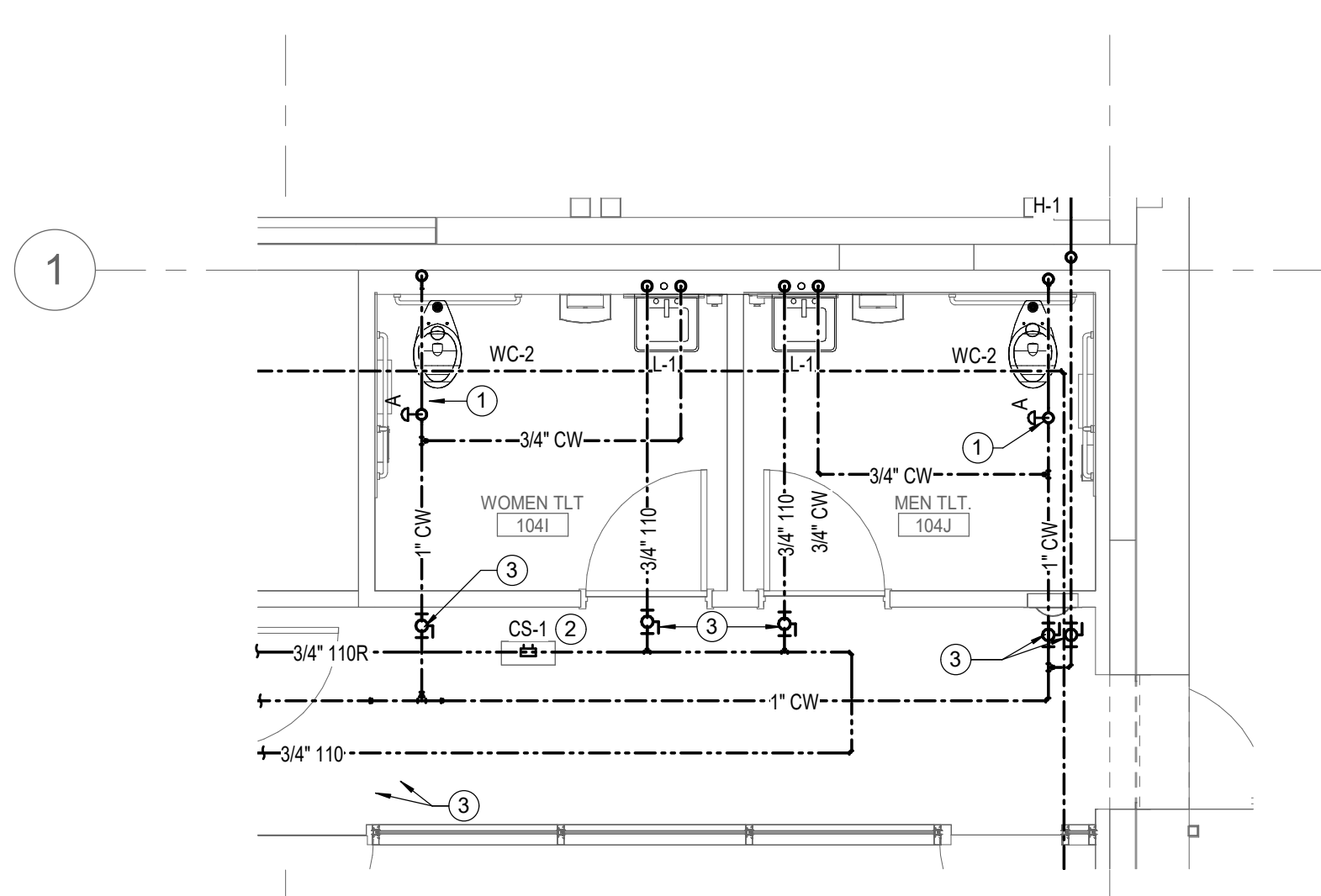
3 ENLARGED WASTE AND VENT PLAN - AREA A - OPEN OFFICE & STAFF TOILETS 104
1/4" = 1'-0"



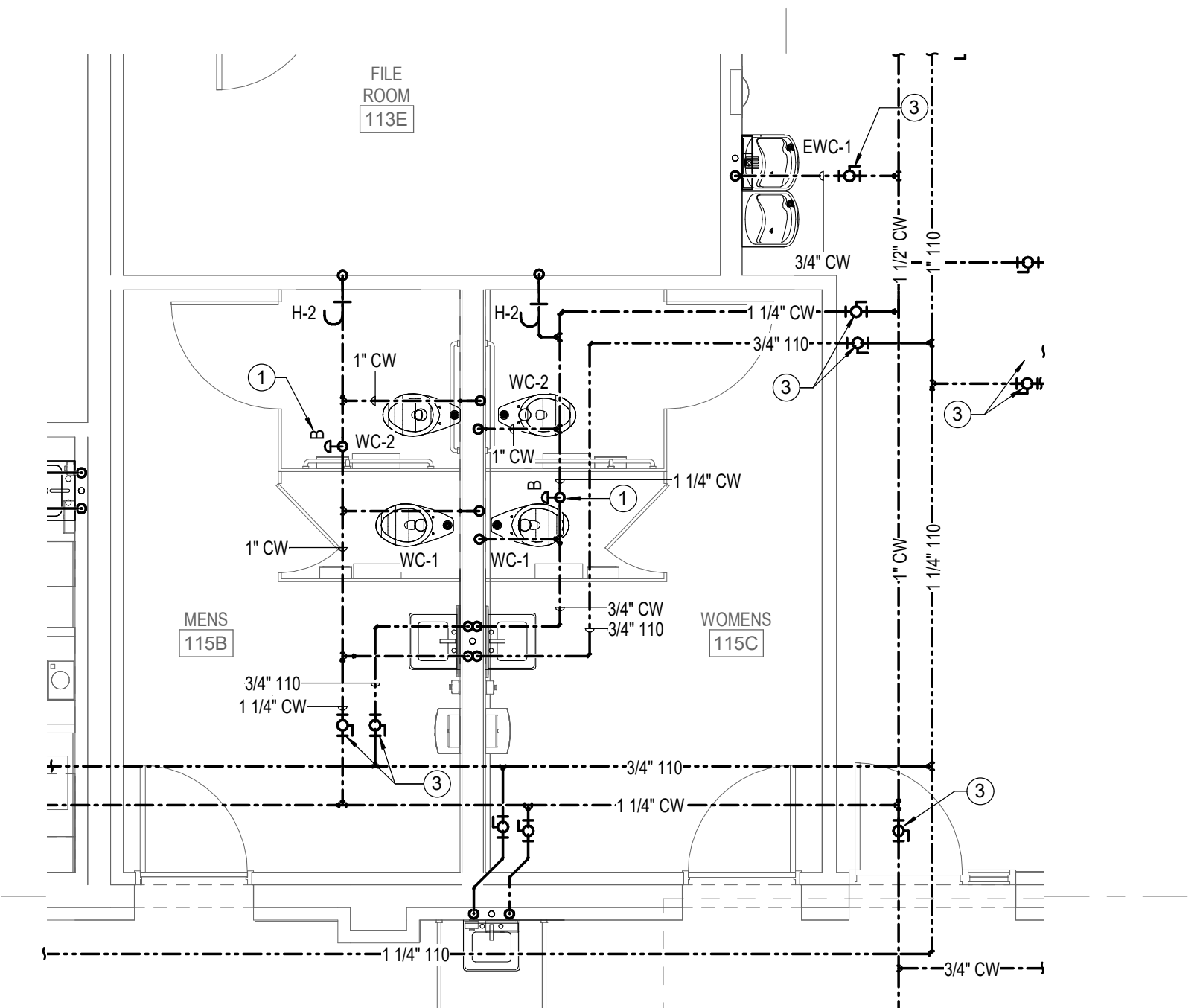
5 ENLARGED WASTE AND VENT PLAN - AREA A - ADC TOILETS 115
1/4" = 1'-0"



2 ENLARGED DOMESTIC WATER PLAN - AREA A - LAUNDRY AND SHOWER 245,246
1/4" = 1'-0"



4 ENLARGED DOMESTIC WATER PLAN - AREA A - OPEN OFFICE & STAFF TOILET 104
1/4" = 1'-0"



6 ENLARGED DOMESTIC WATER PLAN - AREA A - ADC TOILETS 115
1/4" = 1'-0"

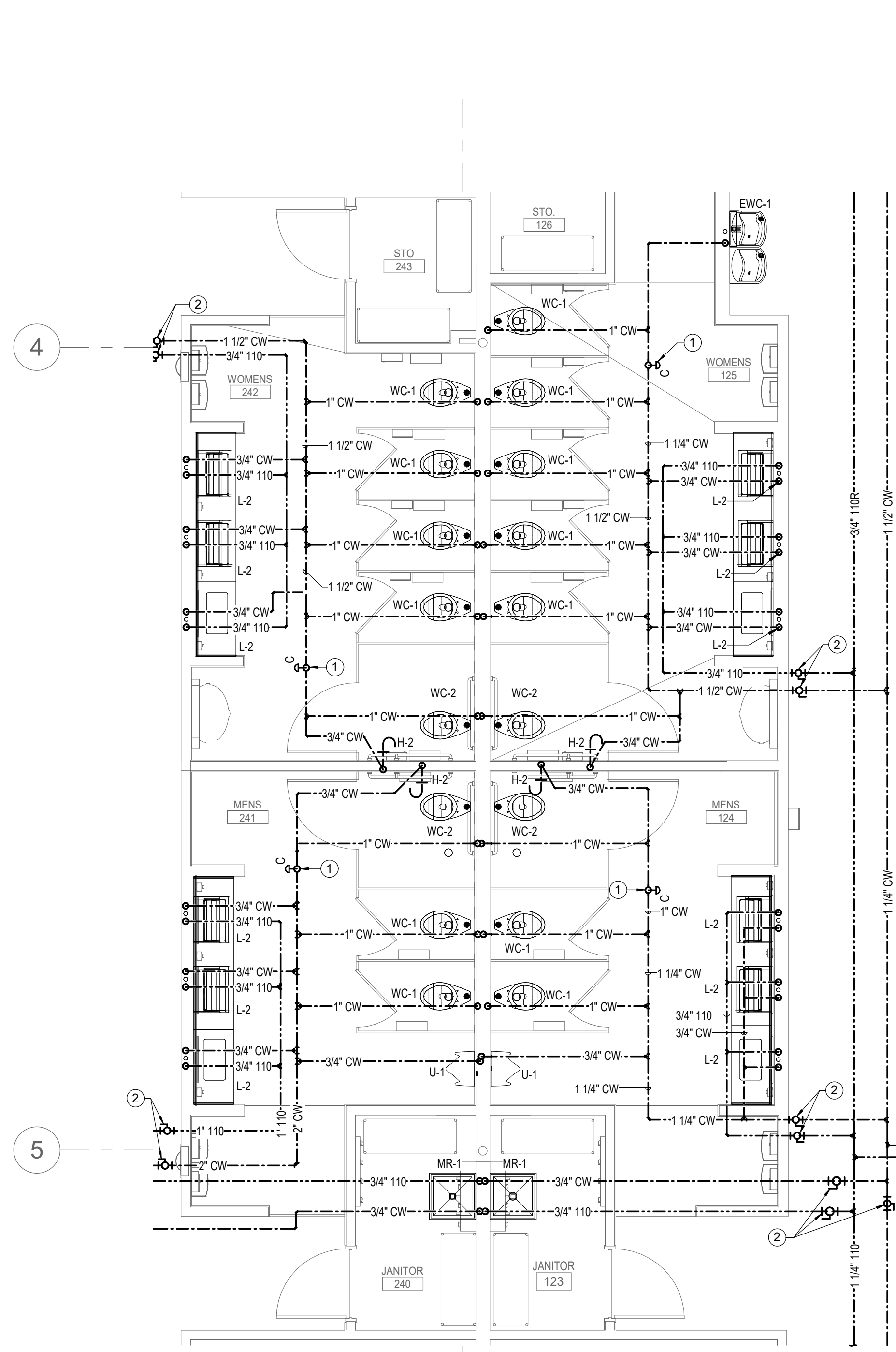
**Onslow County Senior Service Center
Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540**

ID	DATE	DESCRIPTION

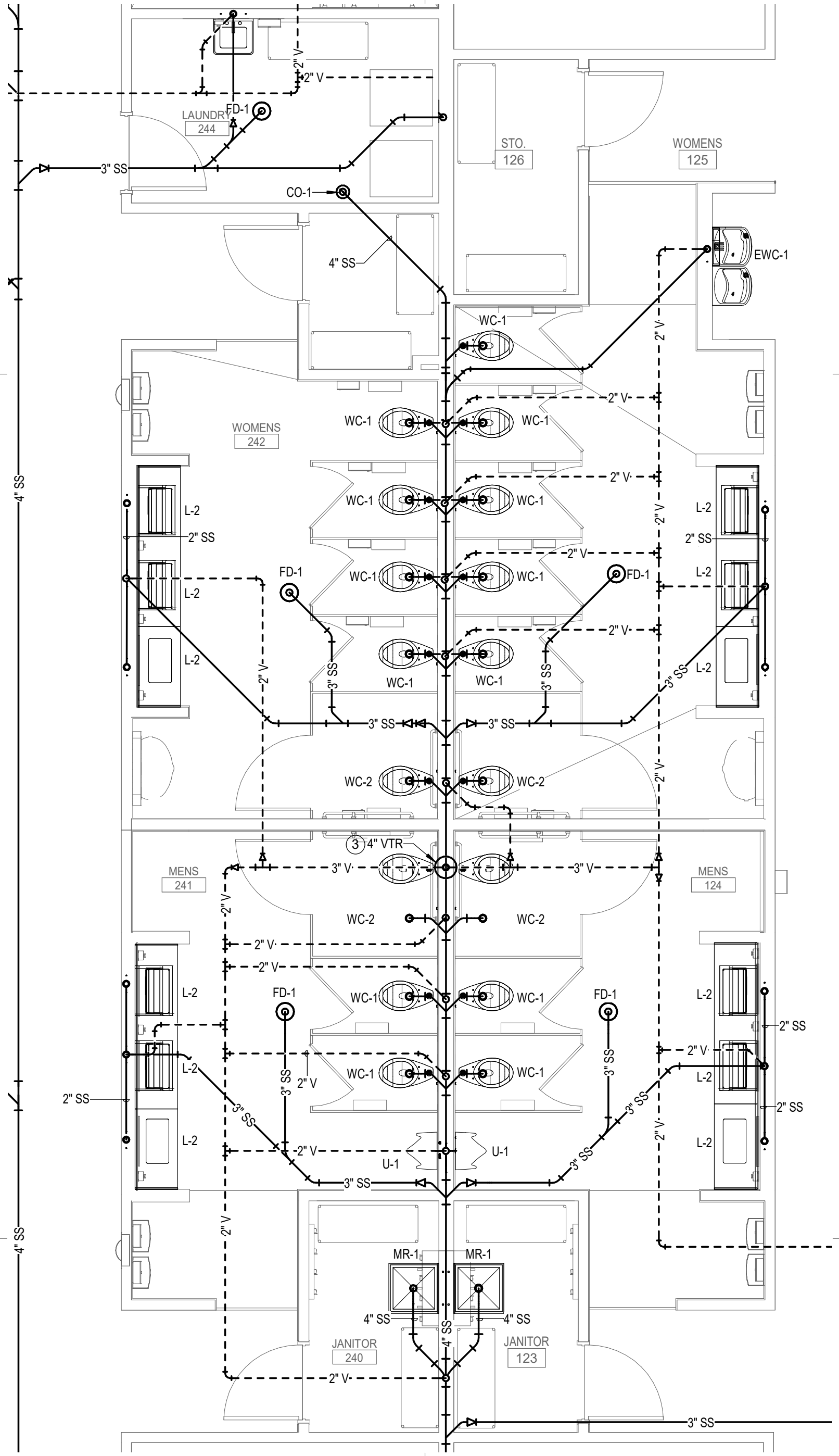
DRAWN BY: JGG
CHECKED BY: SWC
**ENLARGED
DRAWING**

- GENERAL NOTES:**
- ALL VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE.
 - ALL PIPING ROUTING AND HANGER AND SUPPORT INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO START OF WORK.
 - ALL BELOW SLAB WASTE PIPING AND INVERTS SHALL BE COORDINATED WITH CIVIL DRAWINGS AND STRUCTURAL CONCRETE FOUNDATIONS AND FOOTINGS PRIOR TO THE START OF WORK.
 - COORDINATE INSTALLATION OF ROUGH-INS AND FIXTURES WITH CASEWORK/MILLWORK SHOWN IN THE ARCHITECTURE DRAWINGS AND FIELD VERIFY LAYOUT WITH ACCESSIBILITY REQUIREMENTS PRIOR TO START OF WORK AND AFTER ROUGH-IN.
 - PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED SO THAT NO PIPING IS SUBJECT TO BENDING AND/OR DEFLECTION.
 - PROVIDE NEW WATER HAMMER ARRESTORS ON COLD WATER PIPING JUST UPSTREAM OF THE LAST FLUSH VALVE FIXTURE FOR EACH COLD WATER BRANCH SERVING FLUSH VALVE FIXTURES - SIZED AS NEEDED ACCORDING TO SCHEDULE ON SHEET P101 AND ACCESSIBLE FOR FUTURE REPLACEMENT - COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
 - PROVIDE FULL-PORT TWO-PIECE BALL BRONZE BALL VALVES ON DOMESTIC HOT AND COLD WATER PIPING ABOVE CEILING WHERE NECESSARY TO ISOLATE EACH TOILET ROOM INDEPENDENTLY FOR FUTURE REPAIRS OR MAINTENANCE - COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN.
 - PLUMBING PIPING SHALL BE ACCESSIBLE WHERE POSSIBLE AND INSTALLED SO THAT NORMAL THERMAL EXPANSION OR CONTRACTION DOES NOT AFFECT THE PERFORMANCE OF THE SYSTEM - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS REQUIRE EXPANSION OR CONTRACTION MEASURES BEYOND THAT SHOWN IN THESE DRAWINGS.
 - DOMESTIC HOT AND COLD WATER SUPPLY AND/OR RETURN PIPING SHALL BE INSULATED AS REQUIRED AND AS SPECIFIED AND SHALL INCLUDE BRANCH SHUT-OFF VALVES AS SHOWN - PLUMBING CONTRACTOR TO INFORM PLUMBING DESIGNER IF CONDITIONS CREATE THE NEED FOR ADDITIONAL VALVES BEYOND THAT SHOWN IN THESE DRAWINGS.
 - PROVIDE AS-BUILT DRAWINGS THAT INCLUDE FINAL LAYOUTS, DETAILS OF ALL CONNECTION POINTS, AND OTHER PERTINENT DATA. FIELD APPLIED IDENTIFICATION TAGS AND NAMEPLATES MUST MATCH AS-BUILT DRAWINGS.
 - REFER TO CORRESPONDING RISER DIAGRAM DRAWINGS FOR ADDITIONAL PIPE SIZE INFORMATION AND ISOMETRIC VIEWS OF GENERAL PIPING ARRANGEMENTS.

- KEYNOTES:**
- PROVIDE HAMMER ARRESTOR ON WATER PIPE BRANCHES AS INDICATED REFER TO SHEET P101. SEE HAMMER ARRESTOR SCHEDULE FOR SIZES. PROVIDE ACCESS DOOR AS REQUIRED FOR DEVICES LOCATED ON HARD CEILINGS FOR MAINTENANCE. COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
 - PROVIDE SHUT-OFF VALVE TO WATER BRANCH PIPES IN ACCESSIBLE LOCATION. VALVE TO MATCH PIPE SIZE. COORDINATE VALVE LOCATION WITH ALL OTHER TRADES FOR ACCESSIBILITY. PROVIDE ACCESS DOOR AS REQUIRED FOR VALVES LOCATED ON HARD CEILINGS. COORDINATE NECESSARY ACCESS PANELS WITH ARCHITECT'S REFLECTED CEILING PLAN AND/OR ELEVATIONS.
 - VENT PIPING UP TO VTR - REFER TO ROOF PLAN.



1 DOMESTIC WATER - AREA A - MENS & WOMENS TOILET 124, 125, 241, 242
1/4" = 1'-0"



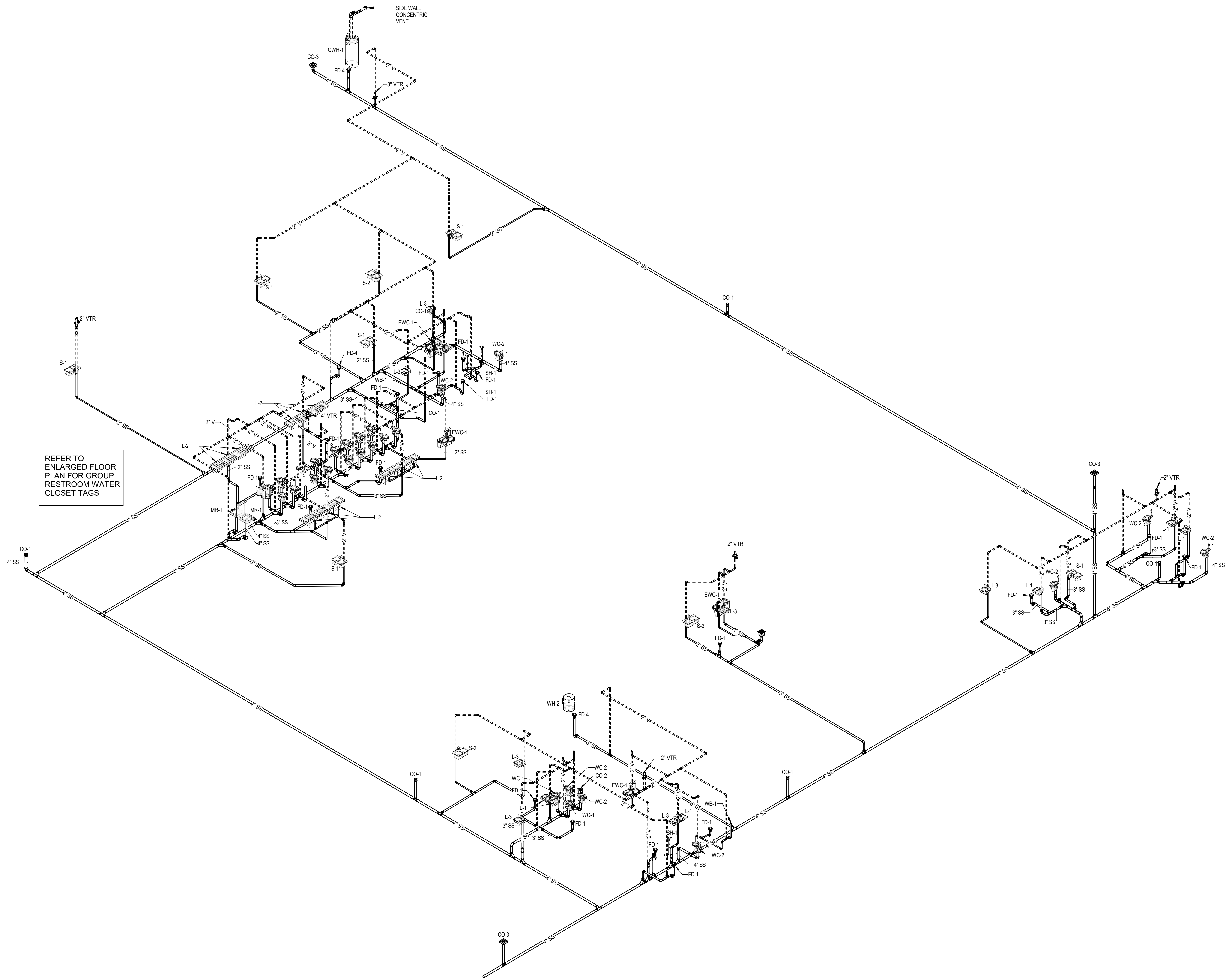
2 WASTE & VENT - AREA A - MENS & WOMENS TOILET 125, 125, 241, 242
1/4" = 1'-0"

ID	DATE	DESCRIPTION

DRAWN BY: JGG
CHECKED BY: SWC
ENLARGED
DRAWING

This drawing is the property of Smith Sinnett Architecture, P.A. The reproduction or use of this drawing without the written consent of the owner is prohibited. In the event of any conflict of law, the laws of the State of North Carolina shall govern. Smith Sinnett Architecture, P.A. 2024

THIS DRAWING IS FORMATTED TO BE PRINTED ON A 36" X 48" SHEET



1 WASTE AND VENT RISER DIAGRAM
NOT TO SCALE

Onslow County Senior Service Center
Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540

ID	DATE	DESCRIPTION

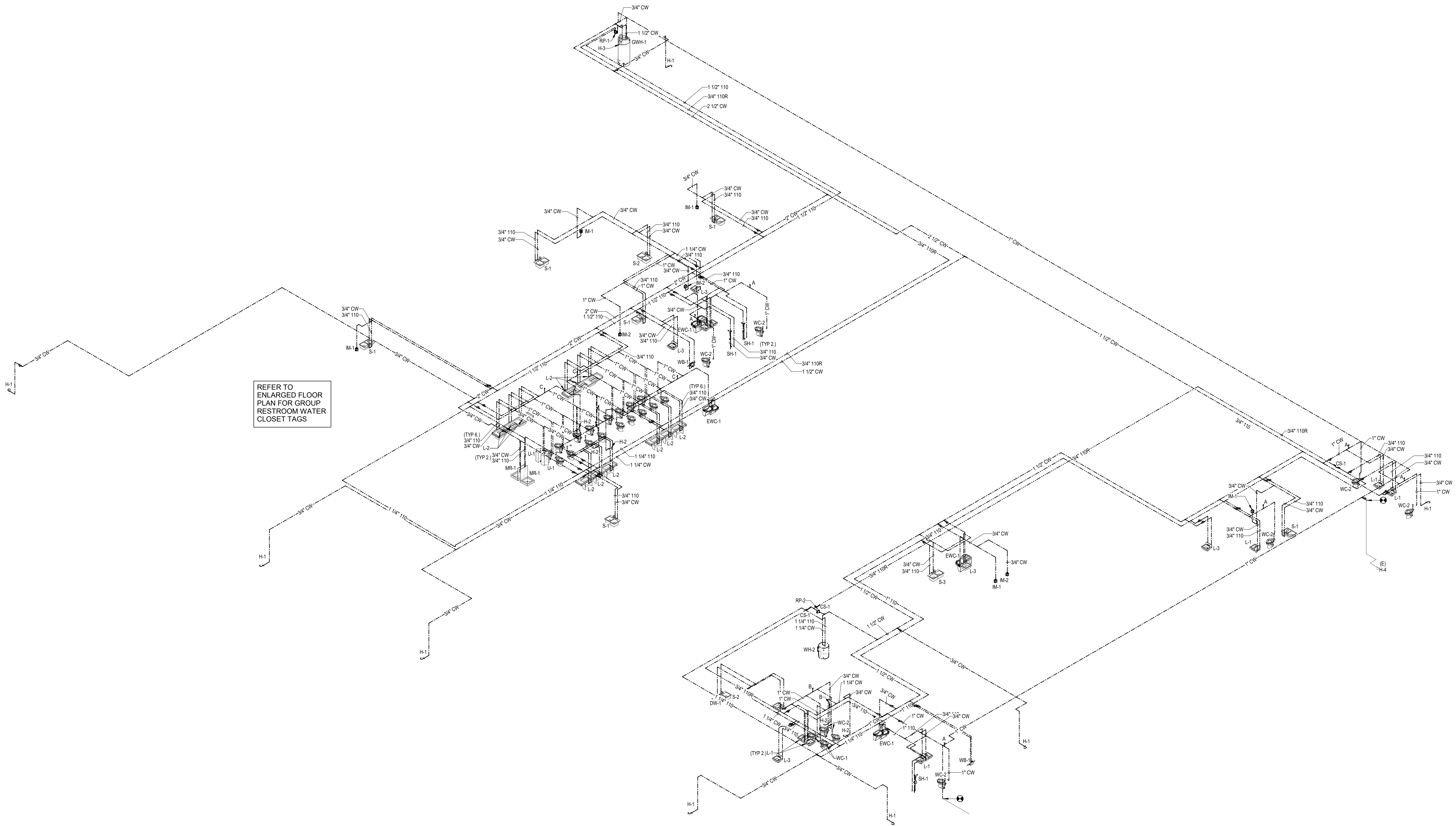
ID DATE DESCRIPTION

DRAWN BY: JGG
CHECKED BY: SWC
WASTE & VENT
RISER

2021029 16 OCT. 2024

This drawing is the property of Smith Sinnett Architecture, P.A. The reproduction or use of this drawing without the written consent of the owner is prohibited. In the event of any conflict of the owner's rights, the user shall be subject to the terms and conditions of the contract. Smith Sinnett Architecture, P.A. 2024

THIS DRAWING IS CONTROLLED. DO NOT REPRODUCE OR SCALE. SEE THE DRAWING FOR THE DATE OF THE SHEET.



1 DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE

Onslow County Senior Service Center
Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540

ID	DATE	DESCRIPTION

DRAWN BY: JGG
CHECKED BY: SWC
DOMESTIC WATER RISER

C:\Users\jgown\Documents\2024\Onslow County Senior Center_MEP_R22_djowypdc\BIM\1.dwg 10/11/2024 10:58 AM

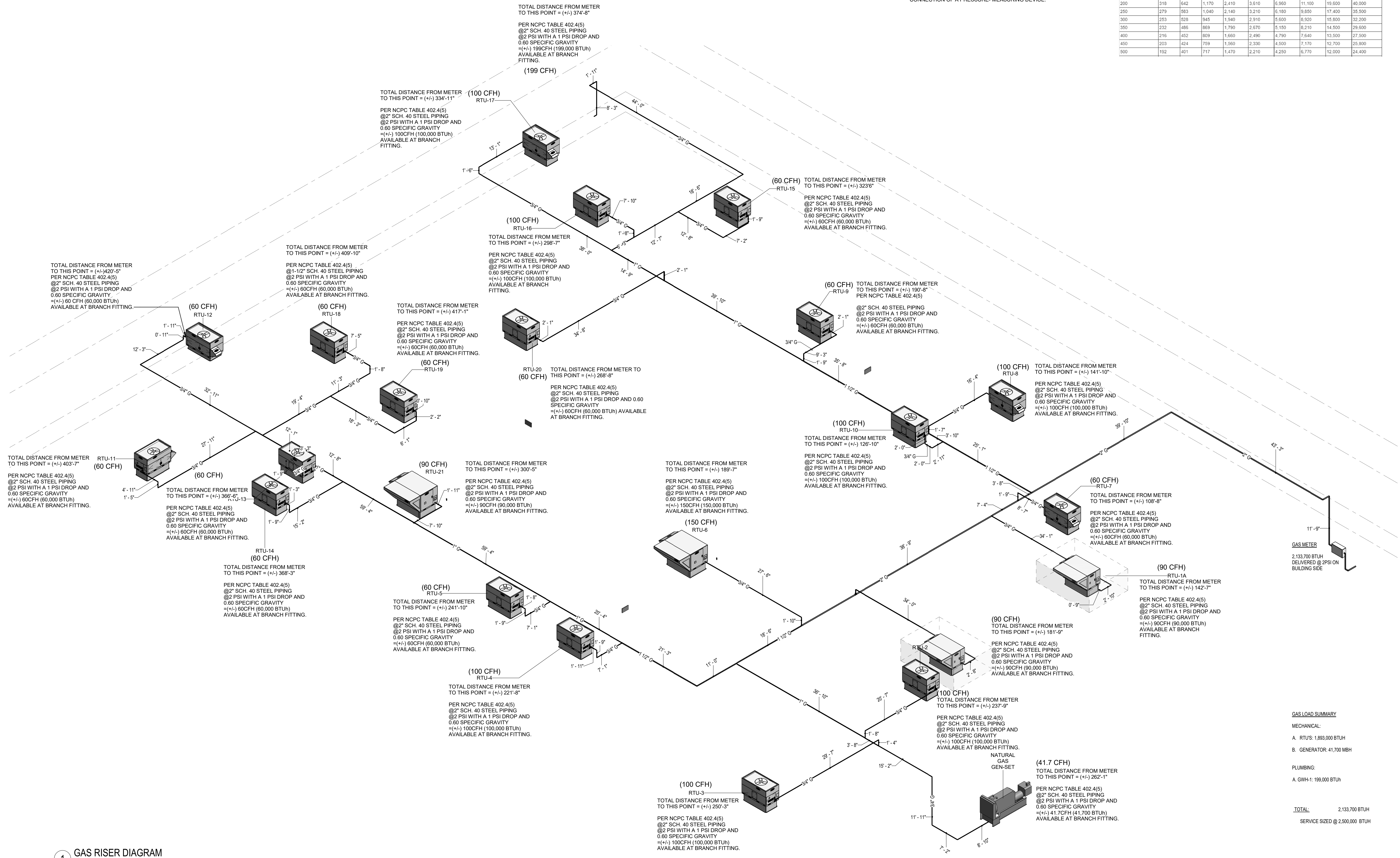
GENERAL NOTES:

- CONTRACTOR TO INSTALL MEDIUM PRESSURE REGULATOR AND INSTALLATION SHALL COMPLY WITH NC FUEL GAS CODE 410.2. PLUMBING CONTRACTOR SHALL PROVIDE REGULATORS AT MECHANICAL & PLUMBING EQUIPMENT TO BE CONNECTED THAT ARE:
 - APPROVED (VIA SUBMITTAL) BY SPECIFYING ENGINEER FOR THE APPLICATION AND REQUIRED PRESSURES.
 - CAPABLE OF MAINTAINING A REDUCED OUTLET PRESSURE UNDER LOCK-UP (NO-FLOW) CONDITIONS.
 - PUBLISHED BY THE MANUFACTURER TO BE ADEQUATE FOR THE EQUIPMENT OR APPLIANCE DEMAND INDICATED.
 - INSTALLED IN A MANNER TO ALLOW ACCESS FOR MAINTENANCE AND SHALL BE VENTED TO THE EXTERIOR OR SHALL BE EQUIPPED WITH A LEAK-LIMITING DEVICE AND COMPLYING WITH SECTION 410.3.
 - INSTALLED WITH A T-FITTING WITH ONE OPENING PLUGGED DOWNSTREAM OF THE REGULATOR AND ITS UPSTREAM SHUT-OFF VALVE TO ALLOW FOR CONNECTION OF A PRESSURE-MEASURING DEVICE AND TO SERVE AS A SEDIMENT TRAP (DIRT LEG).
 - A MEANS TO TEST PRESSURE MUST BE INSTALLED NOT LESS THAN 10 PIPE DIAMETERS DOWNSTREAM OF THE MP REGULATOR OUTLET - POSITION FITTING TO ALLOW CONNECTION OF A PRESSURE-MEASURING DEVICE.

TABLE 402.4(5)
SCHEDULE 40 METALLIC PIPE

Gas	Natural
Inlet Pressure	2.0 psi
Pressure Drop	1.0 psi
Specific Gravity	0.60

Nominal	PIPE SIZE (inch)								
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Actual ID	0.822	0.824	1.049	1.380	1.610	2.067	2.468	3.068	4.028
Length (ft)	Capacity in Cubic Feet of Gas Per Hour								
10	1,510	3,040	5,560	11,400	17,100	32,900	52,500	92,800	189,000
20	1,070	2,150	3,930	8,070	12,100	23,300	37,100	65,600	134,000
30	889	1,760	3,210	6,590	9,880	19,000	30,300	53,600	109,000
40	753	1,520	2,780	5,710	8,500	16,500	26,500	46,400	94,700
50	673	1,360	2,490	5,110	7,630	14,700	23,600	41,500	84,700
60	615	1,240	2,270	4,660	6,980	13,500	21,400	37,900	77,300
70	569	1,150	2,100	4,320	6,470	12,500	19,900	35,100	71,600
80	532	1,080	1,970	4,040	6,050	11,700	18,500	32,800	67,000
90	502	1,010	1,850	3,810	5,700	11,000	17,500	30,900	63,100
100	462	934	1,710	3,510	5,260	10,100	16,100	28,500	58,200
125	414	836	1,530	3,140	4,700	9,060	14,400	25,500	52,100
150	372	751	1,370	2,820	4,220	8,130	13,000	22,900	46,700
175	344	695	1,270	2,601	3,910	7,530	12,000	21,200	43,300
200	318	642	1,170	2,410	3,610	6,960	11,100	19,600	40,000
250	279	583	1,040	2,140	3,210	6,180	9,850	17,400	35,500
300	253	528	945	1,940	2,910	5,600	8,920	15,900	32,200
350	232	486	869	1,790	2,670	5,150	8,210	14,500	29,600
400	216	452	809	1,660	2,490	4,790	7,640	13,500	27,500
450	203	424	759	1,560	2,330	4,500	7,170	12,700	25,800
500	192	401	717	1,470	2,210	4,250	6,770	12,000	24,400



GAS LOAD SUMMARY

MECHANICAL:

A. RTUS: 1,893,000 BTUH

B. GENERATOR: 41,700 MBH

PLUMBING:

A. GWH-1: 199,000 BTUH

TOTAL: 2,133,700 BTUH

SERVICE SIZED @ 2,500,000 BTUH

1 GAS RISER DIAGRAM
NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

Table with 3 columns: MARK, DESCRIPTION, REMARKS. Includes items like CLEANOUT - FLOOR, ZURN MODEL NO. ZN1400-BP, ZURN MODEL NO. Z1441-BP-VP, etc.

PLUMBING FIXTURE SCHEDULE

Table with 3 columns: MARK, DESCRIPTION, REMARKS. Includes items like HAND SINK (ACCESSIBLE), JUST MANUFACTURING - MODEL NUMBER A3338-J, MR-1 MOP RECEPTOR, etc.



T 919 781 8582
F 919 781 3879

4800 Lake Boone Trail
Suite 205
Raleigh, NC 27607

info@smithsinnett.com



Professional Design Collaborative, Inc.
2141 Woodcroft Road, Suite 100
Raleigh, North Carolina 27607
919-798-9900

License# C-0163
www.pdcnc.com
PDC 82374



10/11/2024

This drawing is the property of the architectural firm of Smith Sinnett Architecture, P.A. The reproduction or use of this drawing without the written consent of the firm is prohibited. The user of this drawing agrees to hold the firm harmless from and defend the firm against any and all claims, damages, costs and expenses, including reasonable attorney's fees, arising out of the use of this drawing in any project of the user without the written consent of the firm.

Smith Sinnett Architecture, P.A. 2024

THIS DRAWING IS LIMITED TO BE PRINTED ON A 22" X 34" SHEET

Onslow County Senior Service Center Renovation Onslow County Government 4024 Richlands Hwy, Jacksonville, NC 28540

ID DATE DESCRIPTION

Table with 3 columns: ID, DATE, DESCRIPTION

DRAWN BY: JGG
CHECKED BY: SWC

SCHEDULES

2021029 16 OCT. 2024

P6-01