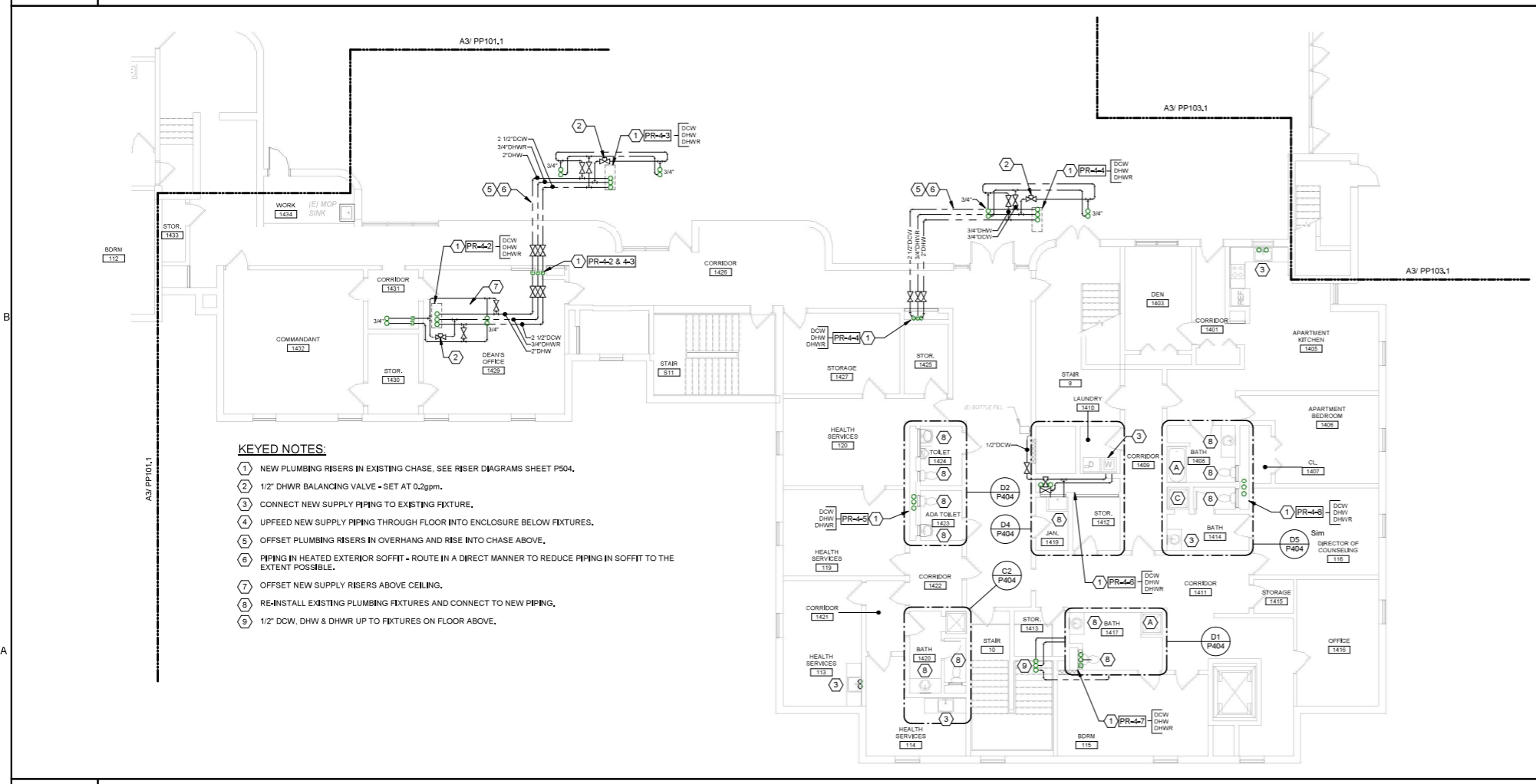


- DEMOLITION KEYED NOTES:**
- 1 REMOVE EXISTING SUPPLY PLUMBING TO RISERS, REFER TO EXISTING RISER DIAGRAMS SHEET PD501 WHERE NOTED.
  - 2 REMOVE EXISTING PIPING IN CHASE, REFER TO RISER DIAGRAMS SHEET PD501 WHERE NOTED.
  - 3 REMOVE EXISTING PIPING LOCATED IN EXTERIOR SOFFIT, COORDINATE WORK WITH ARCHITECTURAL DIVISIONS AND REMOVAL OF SOFFIT.
  - 4 CAREFULLY REMOVE EXISTING PLUMBING FIXTURE AND SAFELY STORE FOR RE-USE, UNLESS OTHERWISE NOTED, REMOVE EXISTING PIPING SERVING FIXTURE.
  - 5 EXISTING PLUMBING FIXTURE TO REMAIN, DISCONNECT AND REMOVE EXISTING PIPING.
  - 6 REMOVE EXISTING (UNUSED) DCW & DHW HOOKUPS FOR VENDING MACHINE, PATCH FLOOR TO MATCH.
  - 7 EXISTING BOTTLE FILL AND BOTTLE FILL SUPPLY TUBE TO REMAIN FOR RE-USE, REMOVE (E) DCW SUPPLY PIPING UP TO SUPPLY TUBE.

**GENERAL PLUMBING DEMOLITION NOTES:**  
 1. FOR APPROXIMATE EXTENT OF PIPE REMOVALS AT BATHROOM GROUPS, SEE DEMOLITION PART PLANS ON SHEET PD401.

C6 PHASE 4 FIRST FLOOR PLUMBING SUPPLY DEMOLITION PLAN

- SHOWER DEMOLITION NOTES:**
- EXISTING FIBERGLASS SHOWER TO BE TEMPORARILY REMOVED AND RE-INSTALLED, CAREFULLY REMOVE SHOWER HEAD AND CONTROLS AND STORE FOR RE-USE, REMOVE DRAIN ASSEMBLY AND ALL EXISTING PIPING SERVING SHOWER.
  - EXISTING TILED SHOWER TO BE REMOVED AND REPLACED WITH SOLID SURFACE PANELS, CAREFULLY REMOVE EXISTING SURFACE MOUNTED SHOWER HEAD AND CONTROLS AND STORE FOR RE-USE, REMOVE EXISTING DRAIN ASSEMBLY AND ALL EXISTING PIPING SERVING SHOWER.
  - EXISTING TILED SHOWER TO REMAIN, CAREFULLY REMOVE EXISTING SHOWER CONTROLS AND STORE FOR RE-USE, EXISTING DRAIN ASSEMBLY TO REMAIN, REMOVE ALL EXISTING PIPING SERVING SHOWER.
  - EXISTING TILED ADA SHOWER TO BE REMOVED AND REPLACED WITH SOLID SURFACE PANELS, CAREFULLY REMOVE EXISTING SURFACE MOUNTED SHOWER HEAD AND CONTROLS AND STORE FOR RE-USE, REMOVE EXISTING DRAIN ASSEMBLY AND ALL EXISTING PIPING SERVING SHOWER.



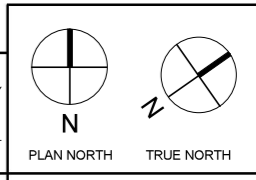
- KEYED NOTES:**
- 1 NEW PLUMBING RISERS IN EXISTING CHASE, SEE RISER DIAGRAMS SHEET P504.
  - 1/2" DHWR BALANCING VALVE - SET AT 0.2gpm.
  - CONNECT NEW SUPPLY PIPING TO EXISTING FIXTURE.
  - UPFEED NEW SUPPLY PIPING THROUGH FLOOR INTO ENCLOSURE BELOW FIXTURES.
  - OFFSET PLUMBING RISERS IN OVERHANG AND RISE INTO CHASE ABOVE.
  - PIPING IN HEATED EXTERIOR SOFFIT - ROUTE IN A DIRECT MANNER TO REDUCE PIPING IN SOFFIT TO THE EXTENT POSSIBLE.
  - OFFSET NEW SUPPLY RISERS ABOVE CEILING.
  - RE-INSTALL EXISTING PLUMBING FIXTURES AND CONNECT TO NEW PIPING.
  - 1/2" DCW, DHW & DHWR UP TO FIXTURES ON FLOOR ABOVE.

- SHOWER NOTES:**
- EXISTING FIBERGLASS SHOWER RE-INSTALLED IN EXISTING LOCATION, RE-INSTALL EXISTING SHOWER DRAIN, HEAD AND CONTROLS, PROVIDE AND INSTALL NEW SUPPLY, W & V PIPING INCLUDING TRAP.
  - NEW SOLID SURFACE SHOWER PAN, DRAIN AND WALLS BY DIVISION 10, RE-INSTALL EXISTING SHOWER HEAD AND CONTROLS AT SAME HEIGHT AS EXISTING, WHERE CEILING HEIGHT AT SHOWER IS BEING MODIFIED, TRIM CONTROLS SHROUD AS REQUIRED TO INSTALL AT SAME HEIGHT AS EXISTING, DIVISION 22 SHALL PROVIDE AND INSTALL NEW TRAP AND CONNECT TO 1-1/2" TAILPIECE AT THE DRAIN, FURNISH AND INSTALL NEW SUPPLY, W & V PIPING.
  - EXISTING TILE SHOWER, RE-USE EXISTING DRAIN ASSEMBLY, RE-INSTALL EXISTING SHOWER HEAD AND CONTROLS AT SAME HEIGHT AS EXISTING, PROVIDE AND INSTALL NEW SUPPLY, W & V PIPING.
  - NEW SOLID SURFACE ADA SHOWER PAN, DRAIN AND WALLS BY DIVISION 10, RE-INSTALL EXISTING SHOWER HEAD AND CONTROLS AT SAME HEIGHT AS EXISTING, WHERE CEILING HEIGHT AT SHOWER IS BEING MODIFIED, TRIM CONTROLS SHROUD AS REQUIRED TO INSTALL AT SAME HEIGHT AS EXISTING, DIVISION 22 SHALL PROVIDE AND INSTALL NEW TRAP AND CONNECT TO 1-1/2" TAILPIECE FURNISHED WITH THE NEW DRAIN, FURNISH AND INSTALL NEW SUPPLY, W & V PIPING.

**GENERAL PLUMBING NOTES:**

- UNLESS OTHERWISE NOTED, ALL EXISTING PLUMBING PIPING WITHIN THE BUILDING INCLUDING DCW, DHW, DHWR, RAV, W, AND V IS TO BE REMOVED AND REPLACED WITH NEW PIPING. REMOVE AND SAFELY STORE EXISTING PLUMBING FIXTURES TO PERFORM NEW WORK, RE-INSTALL EXISTING FIXTURES UPON COMPLETION OF NEW WORK, CONNECT NEW PIPING TO EXISTING FIXTURES.
- EXISTING ROOF DRAINS SHALL BE MAINTAINED OPERATIONAL THROUGHOUT ALL PROJECT PHASES, AS SUCH, EXISTING LEADERS AND RISERS IN EACH PHASE SHALL NOT BE REMOVED UNTIL NEW LEADERS AND MAINS ARE READY FOR CONNECTION TO (E) ROOF DRAINS.

**GENERAL PHASING NOTE:**  
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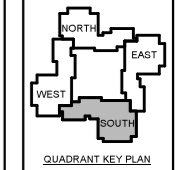
A6 PHASE 4 FIRST FLOOR PLUMBING SUPPLY PLAN

A6 PHASE 4 FIRST FLOOR PLUMBING SUPPLY DEMOLITION PLAN

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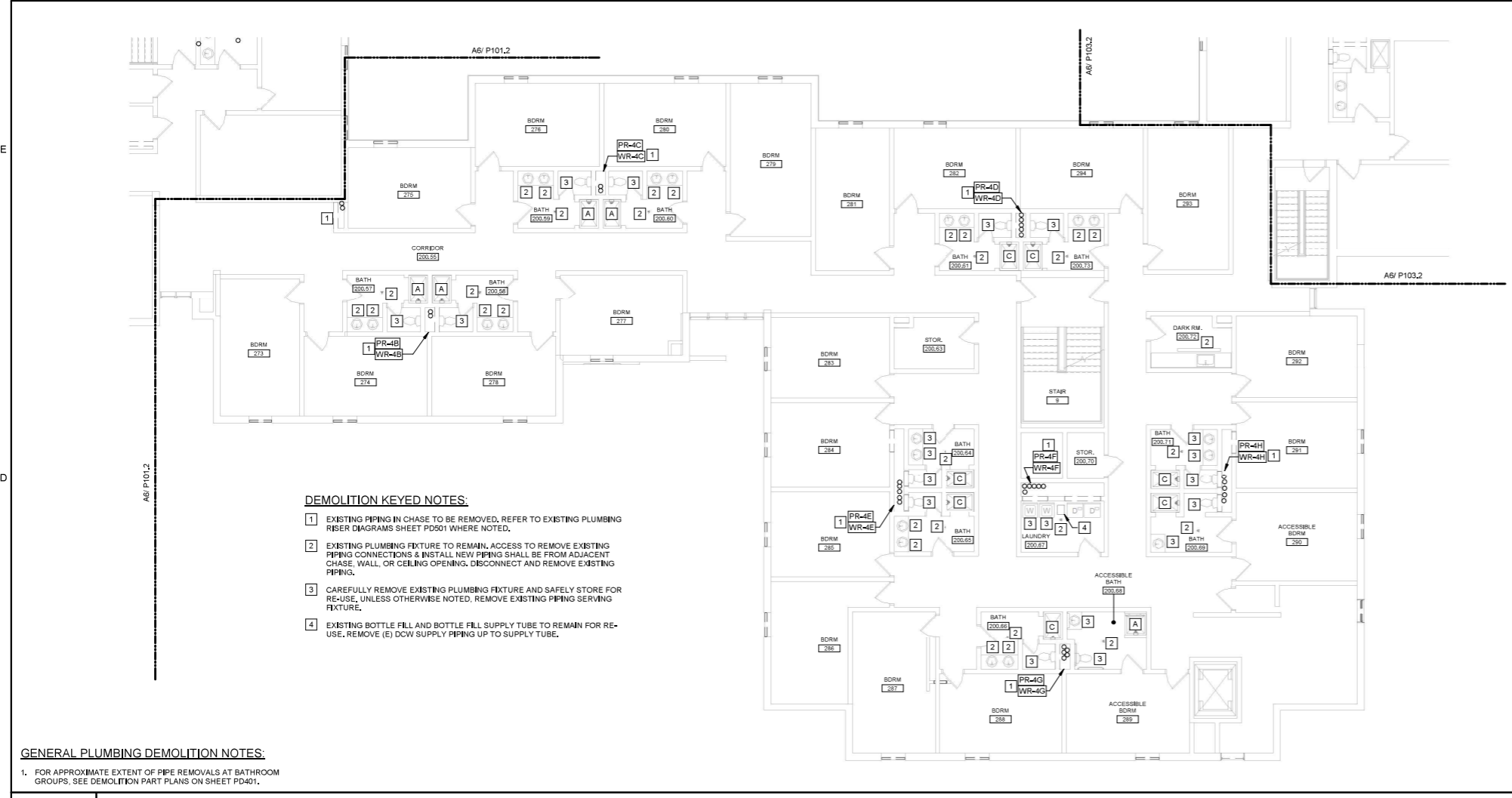
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JOB NO.  
075982

ISSUE  
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11/22/2023

TITLE  
PHASE 4 FIRST FLOOR PLUMBING SUPPLY DEMOLITION & NEW PLANS

SHEET  
**PP104.1**



- DEMOLITION KEYED NOTES:**
- EXISTING PIPING IN CHASE TO BE REMOVED, REFER TO EXISTING PLUMBING RISER DIAGRAMS SHEET PD501 WHERE NOTED.
  - EXISTING PLUMBING FIXTURE TO REMAIN, ACCESS TO REMOVE EXISTING PIPING CONNECTIONS & INSTALL NEW PIPING SHALL BE FROM ADJACENT CHASE, WALL, OR CEILING OPENING, DISCONNECT AND REMOVE EXISTING PIPING.
  - CAREFULLY REMOVE EXISTING PLUMBING FIXTURE AND SAFELY STORE FOR RE-USE, UNLESS OTHERWISE NOTED, REMOVE EXISTING PIPING SERVING FIXTURE.
  - EXISTING BOTTLE FILL AND BOTTLE FILL SUPPLY TUBE TO REMAIN FOR RE-USE, REMOVE (E) DCW SUPPLY PIPING UP TO SUPPLY TUBE.

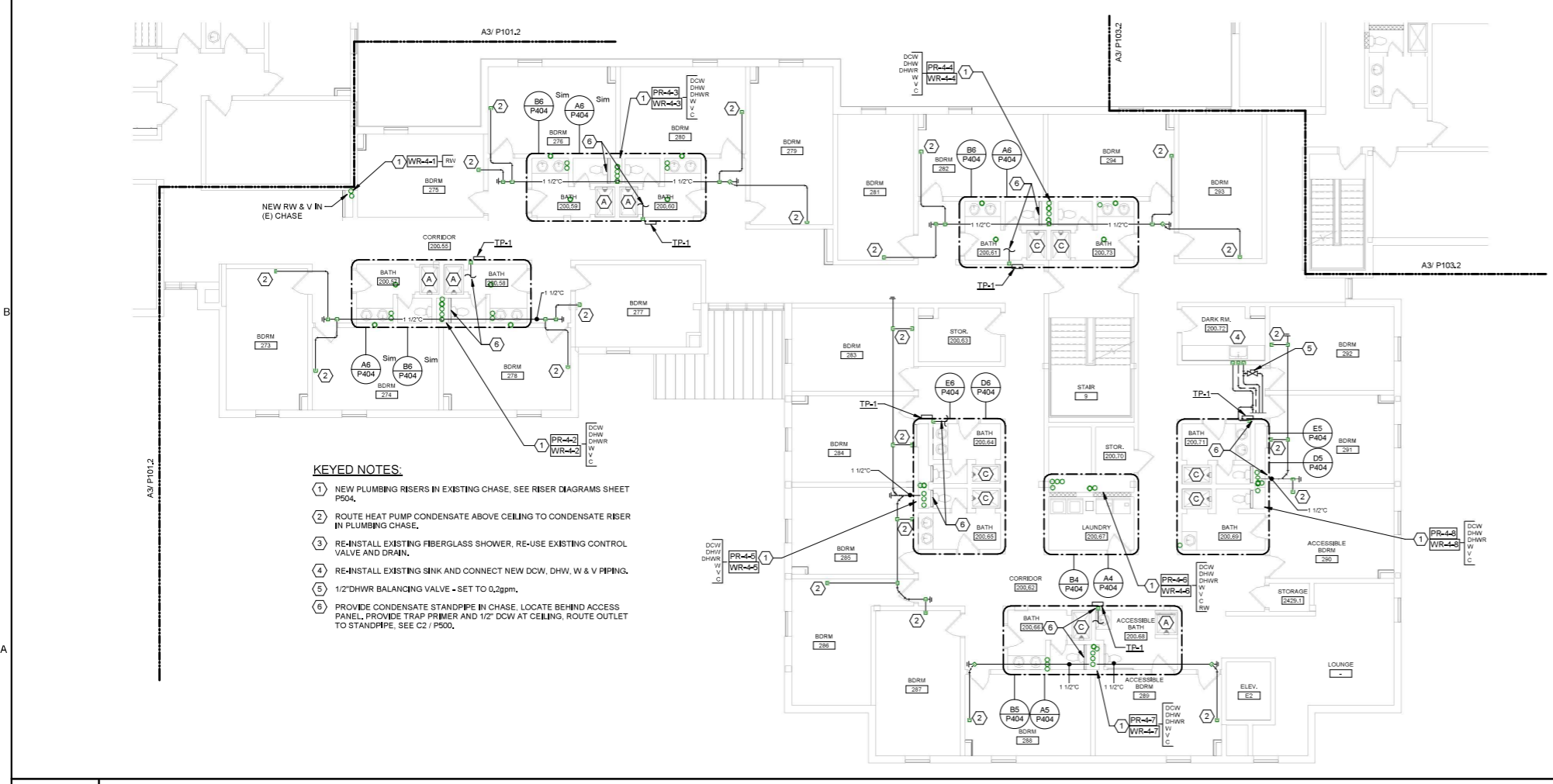
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**SHOWER DEMOLITION NOTES:**

- EXISTING FIBERGLASS SHOWER TO BE TEMPORARILY REMOVED AND RE-INSTALLED, CAREFULLY REMOVE SHOWER HEAD AND CONTROLS AND STORE FOR RE-USE, REMOVE DRAIN ASSEMBLY AND ALL EXISTING PIPING SERVING SHOWER.
- EXISTING TILED SHOWER TO BE REMOVED AND REPLACED WITH SOLID SURFACE PANELS, CAREFULLY REMOVE EXISTING SURFACE MOUNTED SHOWER HEAD AND CONTROLS AND STORE FOR RE-USE, REMOVE EXISTING DRAIN ASSEMBLY AND ALL EXISTING PIPING SERVING SHOWER.
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- EXISTING TILED ADA SHOWER TO BE REMOVED AND REPLACED WITH SOLID SURFACE PANELS, CAREFULLY REMOVE EXISTING SURFACE MOUNTED SHOWER HEAD AND CONTROLS AND STORE FOR RE-USE, REMOVE EXISTING DRAIN ASSEMBLY AND ALL EXISTING PIPING SERVING SHOWER.

C6 PHASE 4 SECOND FLOOR PLUMBING DEMOLITION PLAN



- KEYED NOTES:**
- NEW PLUMBING RISERS IN EXISTING CHASE, SEE RISER DIAGRAMS SHEET P504.
  - ROUTE HEAT PUMP CONDENSATE ABOVE CEILING TO CONDENSATE RISER IN PLUMBING CHASE.
  - RE-INSTALL EXISTING FIBERGLASS SHOWER, RE-USE EXISTING CONTROL VALVE AND DRAIN.
  - RE-INSTALL EXISTING SINK AND CONNECT NEW DCW, DHW, W & V PIPING.
  - 1/2" DHWR BALANCING VALVE - SET TO 0.2gpm.
  - PROVIDE CONDENSATE STANDPIPE IN CHASE, LOCATE BEHIND ACCESS PANEL, PROVIDE TRAP PRIMER AND 1/2" DCW AT CEILING, ROUTE OUTLET TO STANDPIPE, SEE C2 / P500.

**SHOWER NOTES:**

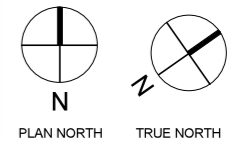
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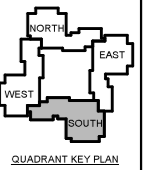
A6 PHASE 4 SECOND FLOOR PLUMBING PLAN

PHASE 4 SECOND FLOOR PLUMBING DEMOLITION & NEW PLANS



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JOB NO. 075982

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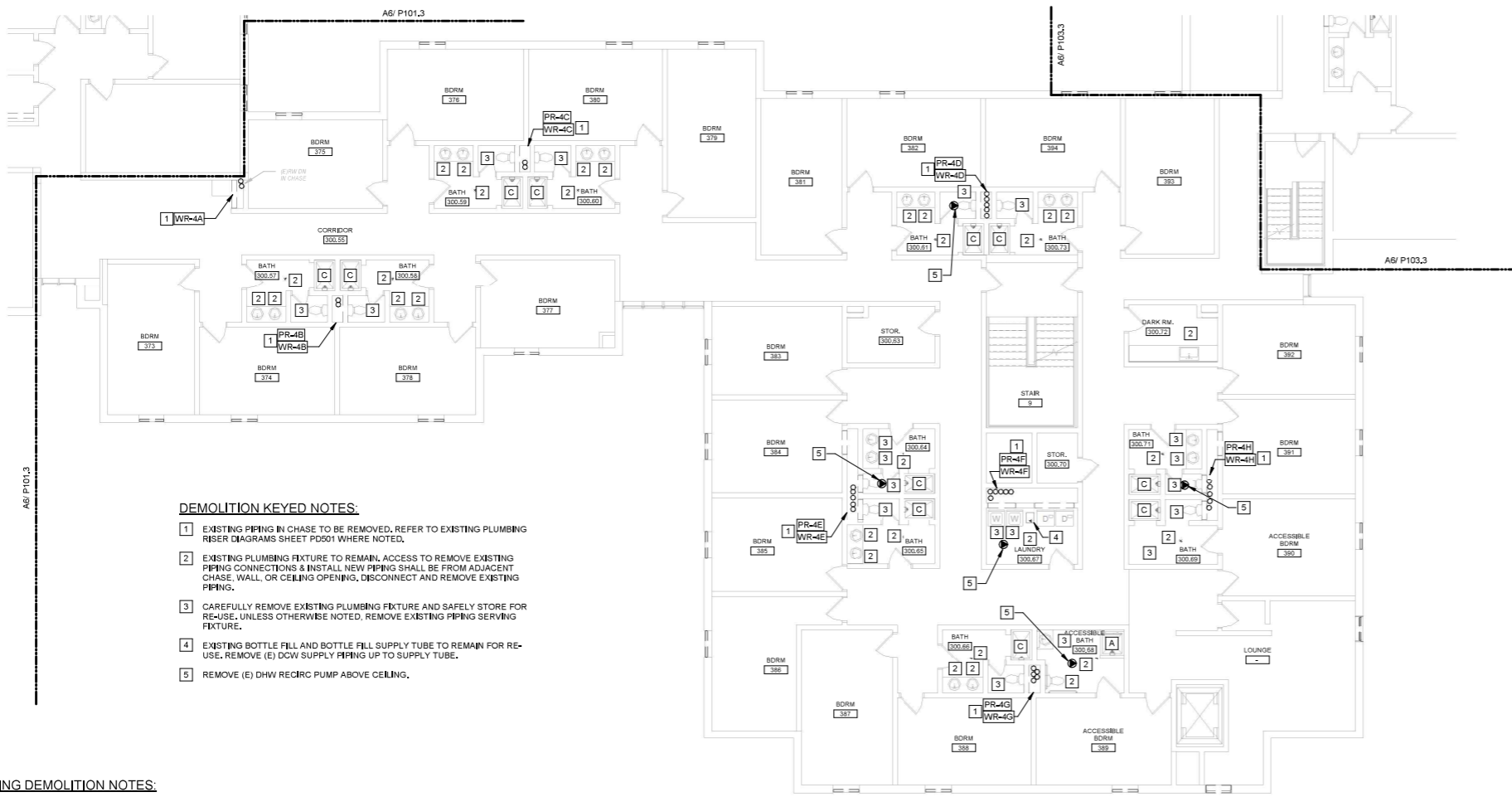
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TITLE  
 PHASE 4 SECOND FLOOR PLUMBING DEMOLITION & NEW PLANS

SHEET

**P104.2**



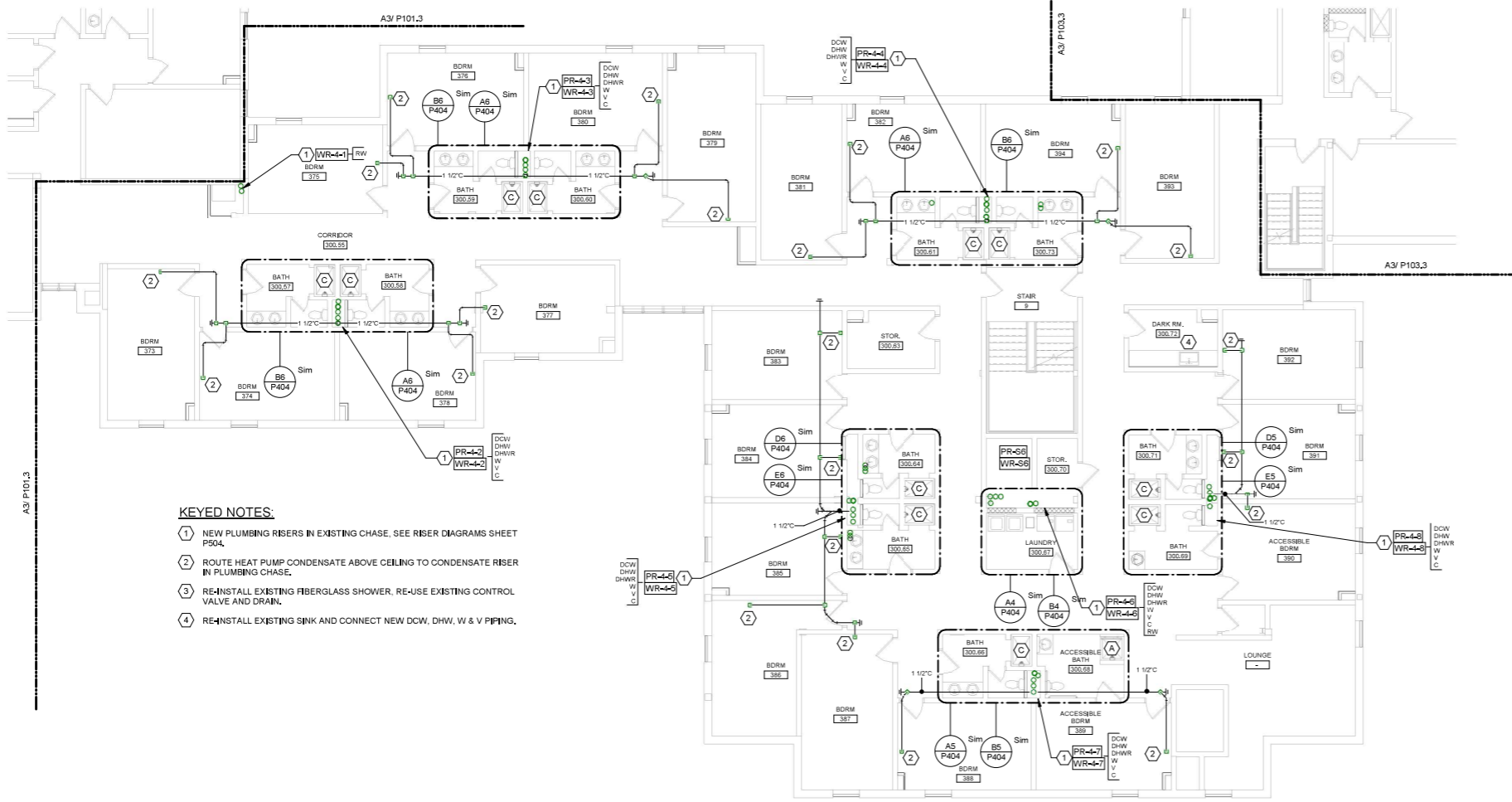


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- EXISTING PIPING IN CHASE TO BE REMOVED, REFER TO EXISTING PLUMBING RISER DIAGRAMS SHEET PD501 WHERE NOTED.
  - EXISTING PLUMBING FIXTURE TO REMAIN, ACCESS TO REMOVE EXISTING PIPING CONNECTIONS & INSTALL NEW PIPING SHALL BE FROM ADJACENT CHASE, WALL OR CEILING OPENING, DISCONNECT AND REMOVE EXISTING PIPING.
  - CAREFULLY REMOVE EXISTING PLUMBING FIXTURE AND SAFELY STORE FOR RE-USE, UNLESS OTHERWISE NOTED, REMOVE EXISTING PIPING SERVING FIXTURE.
  - EXISTING BOTTLE FILL AND BOTTLE FILL SUPPLY TUBE TO REMAIN FOR RE-USE, REMOVE (E) DCW SUPPLY PIPING UP TO SUPPLY TUBE.
  - REMOVE (E) DCW RECIRC PUMP ABOVE CEILING.

**GENERAL PLUMBING DEMOLITION NOTES:**  
 1. FOR APPROXIMATE EXTENT OF PIPE REMOVALS AT BATHROOM GROUPS, SEE DEMOLITION PART PLANS ON SHEET PD401.

- SHOWER DEMOLITION NOTES:**
- EXISTING FIBERGLASS SHOWER TO BE TEMPORARILY REMOVED AND RE-INSTALLED, CAREFULLY REMOVE SHOWER HEAD AND CONTROLS AND STORE FOR RE-USE, REMOVE DRAIN ASSEMBLY AND ALL EXISTING PIPING SERVING SHOWER.
  - EXISTING TILED SHOWER TO BE REMOVED AND REPLACED WITH SOLID SURFACE PANELS, CAREFULLY REMOVE EXISTING SURFACE MOUNTED SHOWER HEAD AND CONTROLS AND STORE FOR RE-USE, REMOVE EXISTING DRAIN ASSEMBLY AND ALL EXISTING PIPING SERVING SHOWER.
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C6 PHASE 4 THIRD FLOOR PLUMBING DEMOLITION PLAN



- KEYED NOTES:**
- NEW PLUMBING RISERS IN EXISTING CHASE, SEE RISER DIAGRAMS SHEET PD504.
  - ROUTE HEAT PUMP CONDENSATE ABOVE CEILING TO CONDENSATE RISER IN PLUMBING CHASE.
  - RE-INSTALL EXISTING FIBERGLASS SHOWER, RE-USE EXISTING CONTROL VALVE AND DRAIN.
  - RE-INSTALL EXISTING SINK AND CONNECT NEW DCW, DHW, W & V PIPING.

- SHOWER NOTES:**
- EXISTING FIBERGLASS SHOWER RE-INSTALLED IN EXISTING LOCATION, RE-INSTALL EXISTING SHOWER DRAIN, HEAD AND CONTROLS, PROVIDE AND INSTALL NEW SUPPLY, W & V PIPING INCLUDING TRAP.
  - NEW SOLID SURFACE SHOWER PAN, DRAIN AND WALLS BY DIVISION 10, RE-INSTALL EXISTING SHOWER HEAD AND CONTROLS AT SAME HEIGHT AS EXISTING, WHERE CEILING HEIGHT AT SHOWER IS BEING MODIFIED, TRIM CONTROLS SHROUD AS REQUIRED TO INSTALL AT SAME HEIGHT AS EXISTING, DIVISION 22 SHALL PROVIDE AND INSTALL NEW TRAP AND CONNECT TO 1-1/2" TAILPIECE AT THE DRAIN, FURNISH AND INSTALL NEW SUPPLY, W & V PIPING.
  - EXISTING TILE SHOWER, RE-USE EXISTING DRAIN ASSEMBLY, RE-INSTALL EXISTING SHOWER HEAD AND CONTROLS AT SAME HEIGHT AS EXISTING, PROVIDE AND INSTALL NEW SUPPLY, W & V PIPING.
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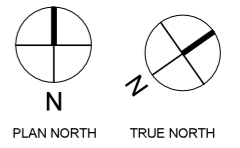
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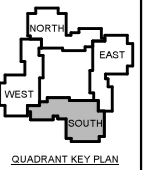
A6 PHASE 4 THIRD FLOOR PLUMBING PLAN

PHASE 4 THIRD FLOOR PLUMBING DEMOLITION & NEW PLANS



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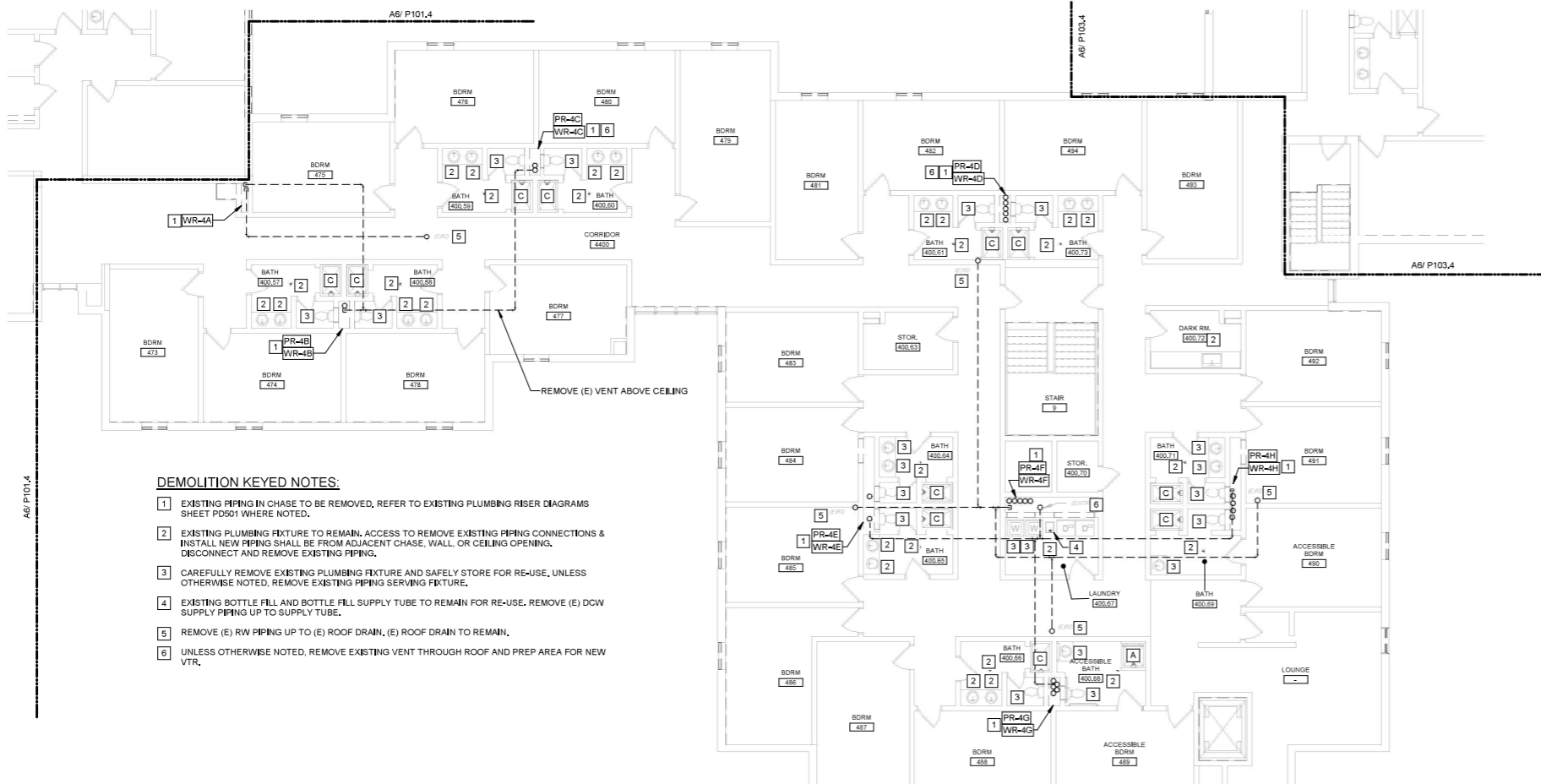
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11/22/2023

TITLE  
 PHASE 4 THIRD FLOOR PLUMBING DEMOLITION & NEW PLANS

SHEET

P104.3

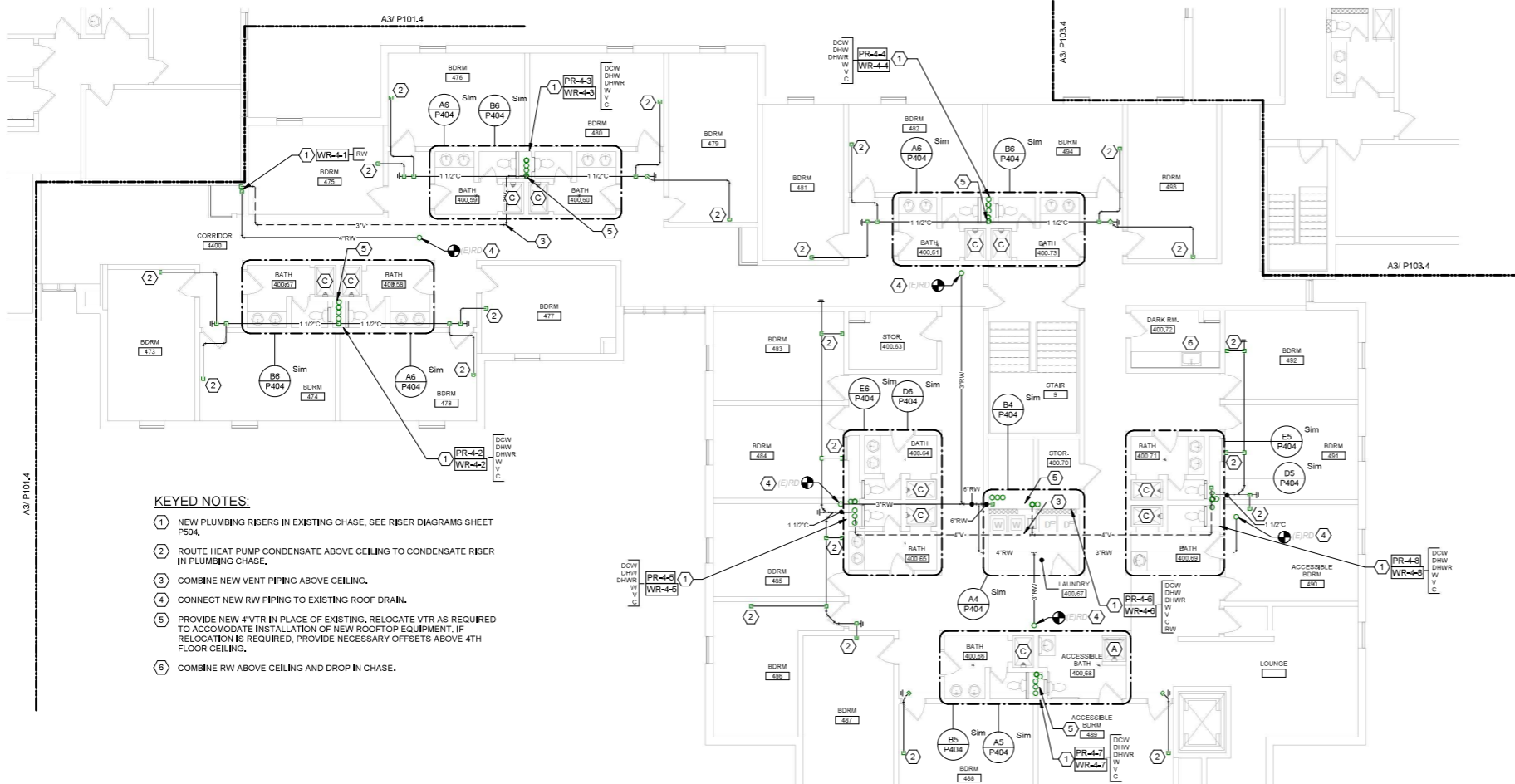


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  - EXISTING BOTTLE FILL AND BOTTLE FILL SUPPLY TUBE TO REMAIN FOR RE-USE, REMOVE (E) DCW SUPPLY PIPING UP TO SUPPLY TUBE.
  - REMOVE (E) RW PIPING UP TO (E) ROOF DRAIN, (E) ROOF DRAIN TO REMAIN.
  - UNLESS OTHERWISE NOTED, REMOVE EXISTING VENT THROUGH ROOF AND PREP AREA FOR NEW VTR.

**GENERAL PLUMBING DEMOLITION NOTES:**

- FOR APPROXIMATE EXTENT OF PIPE REMOVALS AT BATHROOM GROUPS, SEE DEMOLITION PART PLANS ON SHEET PD401.

C6 PHASE 4 FOURTH FLOOR PLUMBING DEMOLITION PLAN



- KEYED NOTES:**
- NEW PLUMBING RISERS IN EXISTING CHASE, SEE RISER DIAGRAMS SHEET PD504.
  - ROUTE HEAT PUMP CONDENSATE ABOVE CEILING TO CONDENSATE RISER IN PLUMBING CHASE.
  - COMBINE NEW VENT PIPING ABOVE CEILING.
  - CONNECT NEW RW PIPING TO EXISTING ROOF DRAIN.
  - PROVIDE NEW VTR IN PLACE OF EXISTING, RELOCATE VTR AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW ROOFTOP EQUIPMENT, IF RELOCATION IS REQUIRED, PROVIDE NECESSARY OFFSETS ABOVE 4TH FLOOR CEILING.
  - COMBINE RW ABOVE CEILING AND DROP IN CHASE.

**SHOWER DEMOLITION NOTES:**

- EXISTING FIBERGLASS SHOWER TO BE TEMPORARILY REMOVED AND RE-INSTALLED, CAREFULLY REMOVE SHOWER HEAD AND CONTROLS AND STORE FOR RE-USE, REMOVE DRAIN ASSEMBLY AND ALL EXISTING PIPING SERVING SHOWER.
- EXISTING TILED SHOWER TO BE REMOVED AND REPLACED WITH SOLID SURFACE PANELS, CAREFULLY REMOVE EXISTING SURFACE MOUNTED SHOWER HEAD AND CONTROLS AND STORE FOR RE-USE, REMOVE EXISTING DRAIN ASSEMBLY AND ALL EXISTING PIPING SERVING SHOWER.
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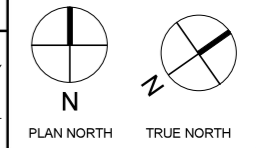
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- NEW SOLID SURFACE SHOWER PAN, DRAIN AND WALLS BY DIVISION 10, RE-INSTALL EXISTING SHOWER HEAD AND CONTROLS AT SAME HEIGHT AS EXISTING, WHERE CEILING HEIGHT AT SHOWER IS BEING MODIFIED, TRIM CONTROLS SHROUD AS REQUIRED TO INSTALL AT SAME HEIGHT AS EXISTING, DIVISION 22 SHALL PROVIDE AND INSTALL NEW TRAP AND CONNECT TO 1-1/2" TAILPIECE AT THE DRAIN, FURNISH AND INSTALL NEW SUPPLY, W & V PIPING.
- EXISTING TILE SHOWER, RE-USE EXISTING DRAIN ASSEMBLY, RE-INSTALL EXISTING SHOWER HEAD AND CONTROLS AT SAME HEIGHT AS EXISTING, PROVIDE AND INSTALL NEW SUPPLY, W & V PIPING.
- NEW SOLID SURFACE ADA SHOWER PAN, DRAIN AND WALLS BY DIVISION 10, RE-INSTALL EXISTING SHOWER HEAD AND CONTROLS AT SAME HEIGHT AS EXISTING, WHERE CEILING HEIGHT AT SHOWER IS BEING MODIFIED, TRIM CONTROLS SHROUD AS REQUIRED TO INSTALL AT SAME HEIGHT AS EXISTING, DIVISION 22 SHALL PROVIDE AND INSTALL NEW TRAP AND CONNECT TO 1-1/2" TAILPIECE FURNISHED WITH THE NEW DRAIN, FURNISH AND INSTALL NEW SUPPLY, W & V PIPING.

**GENERAL PLUMBING NOTES:**

- UNLESS OTHERWISE NOTED, ALL EXISTING PLUMBING PIPING WITHIN THE BUILDING INCLUDING DCW, DRW, DHRW, RW, W, AND V IS TO BE REMOVED AND REPLACED WITH NEW PIPING. REMOVE AND SAFELY STORE EXISTING PLUMBING FIXTURES TO PERFORM NEW WORK, RE-INSTALL EXISTING FIXTURES UPON COMPLETION OF NEW WORK, CONNECT NEW PIPING TO EXISTING FIXTURES.
- EXISTING ROOF DRAINS SHALL BE MAINTAINED OPERATIONAL THROUGHOUT ALL PROJECT PHASES, AS SUCH, EXISTING LEADERS AND RISERS IN EACH PHASE SHALL NOT BE REMOVED UNTIL NEW LEADERS AND MAINS ARE READY FOR CONNECTION TO (E) ROOF DRAINS.

**GENERAL PHASING NOTE:**

THIS PROJECT IS SCHEDULED TO BE COMPLETED IN MULTIPLE PHASES, THE OWNER WILL OCCUPY ALL PORTIONS OF THE BUILDING THAT ARE NOT ACTIVELY UNDER CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SERVICES TO ALL PARTS OF THE BUILDING NOT ACTIVELY UNDER CONSTRUCTION, SEE A2 / ME-P000 FOR AN EXAMPLE STRATEGY TO MAINTAIN SERVICE TO OCCUPIED AREAS, INTERRUPTIONS IN SERVICE TO OCCUPIED AREAS SHALL BE KEPT TO A MINIMUM AND SHALL BE STRICTLY COORDINATED WITH MAINE MARITIME ACADEMY, SEE SHEET ME-P000 FOR ADDITIONAL INFORMATION AND PHASING NOTES.



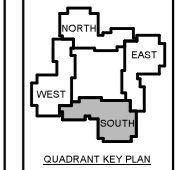
A6 PHASE 4 FOURTH FLOOR PLUMBING PLAN

A6 PHASE 4 FOURTH FLOOR PLUMBING PLAN



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No.	Date	Description
Revision Schedule		

NOT FOR CONSTRUCTION

JOB NO. 076982

ISSUE

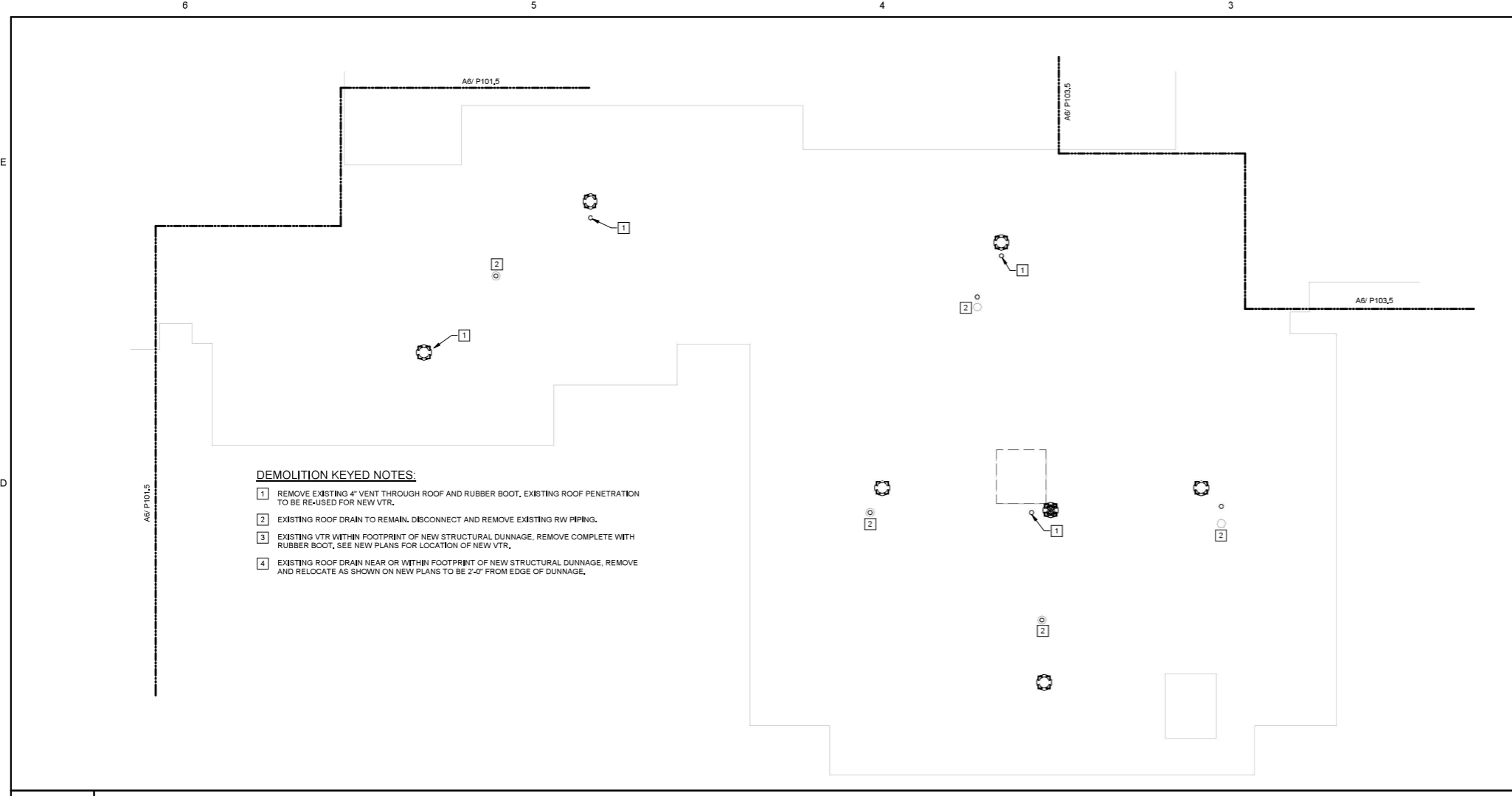
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11/22/2023

TITLE  
 PHASE 4 FOURTH FLOOR PLUMBING DEMOLITION & NEW PLANS

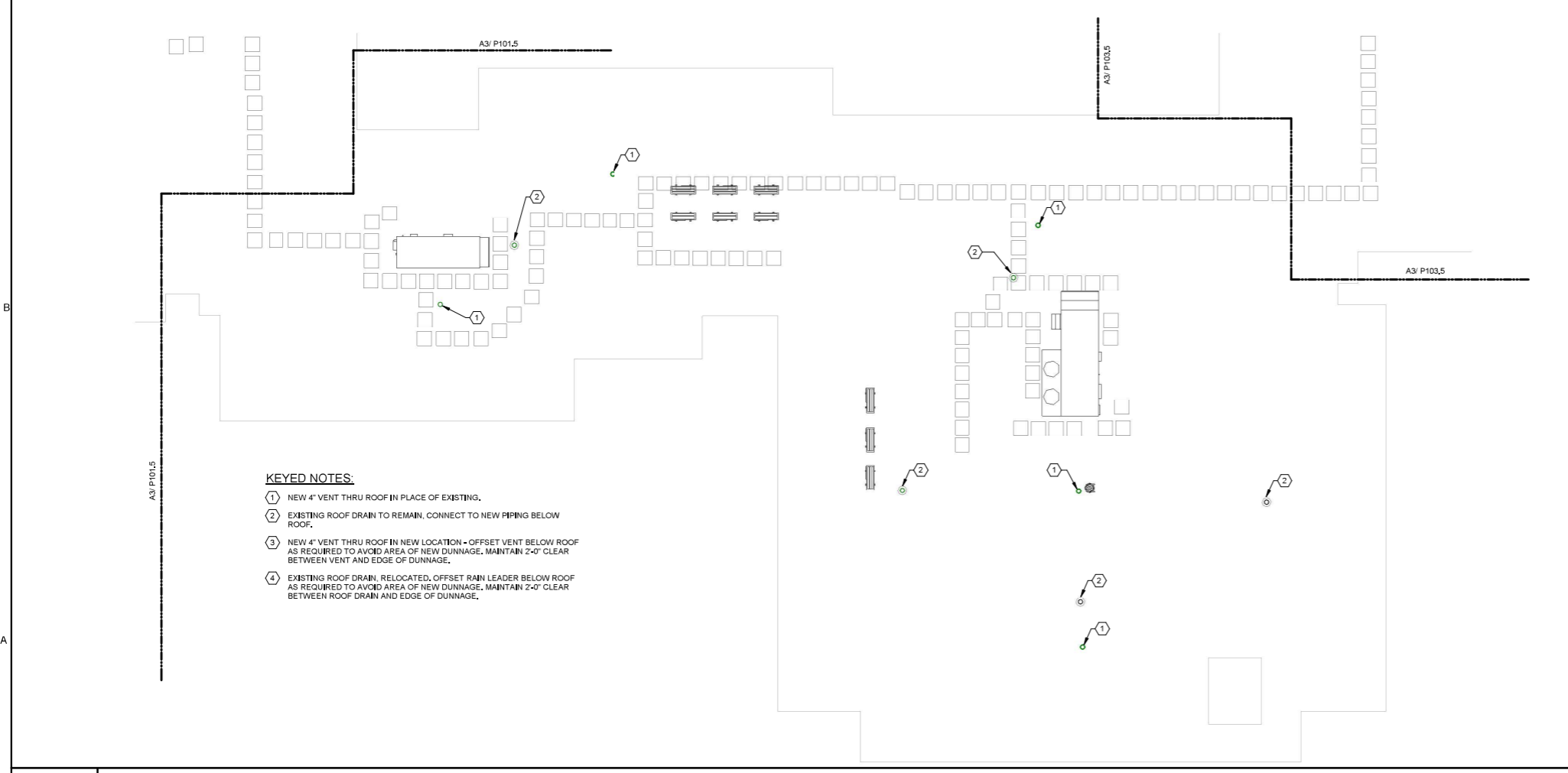
SHEET

**P104.4**



- DEMOLITION KEYED NOTES:**
- 1 REMOVE EXISTING 4" VENT THROUGH ROOF AND RUBBER BOOT, EXISTING ROOF PENETRATION TO BE RE-USED FOR NEW VTR.
  - 2 EXISTING ROOF DRAIN TO REMAIN, DISCONNECT AND REMOVE EXISTING RW PIPING.
  - 3 EXISTING VTR WITHIN FOOTPRINT OF NEW STRUCTURAL DUNNAGE, REMOVE COMPLETE WITH RUBBER BOOT, SEE NEW PLANS FOR LOCATION OF NEW VTR.
  - 4 EXISTING ROOF DRAIN NEAR OR WITHIN FOOTPRINT OF NEW STRUCTURAL DUNNAGE, REMOVE AND RELOCATE AS SHOWN ON NEW PLANS TO BE 2'-0" FROM EDGE OF DUNNAGE.

C6 PHASE 4 - ROOF PLUMBING DEMOLITION PLAN



- KEYED NOTES:**
- 1 NEW 4" VENT THRU ROOF IN PLACE OF EXISTING.
  - 2 EXISTING ROOF DRAIN TO REMAIN, CONNECT TO NEW PIPING BELOW ROOF.
  - 3 NEW 4" VENT THRU ROOF IN NEW LOCATION - OFFSET VENT BELOW ROOF AS REQUIRED TO AVOID AREA OF NEW DUNNAGE, MAINTAIN 2'-0" CLEAR BETWEEN VENT AND EDGE OF DUNNAGE.
  - 4 EXISTING ROOF DRAIN, RELOCATED, OFFSET RAIN LEADER BELOW ROOF AS REQUIRED TO AVOID AREA OF NEW DUNNAGE, MAINTAIN 2'-0" CLEAR BETWEEN ROOF DRAIN AND EDGE OF DUNNAGE.

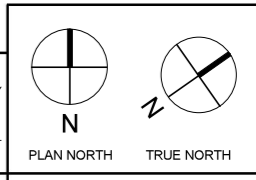
**GENERAL PLUMBING NOTES:**

1. UNLESS OTHERWISE NOTED, ALL EXISTING PLUMBING PIPING WITHIN THE BUILDING INCLUDING DCW, DRW, DHRW, RIV, W, AND V IS TO BE REMOVED AND REPLACED WITH NEW PIPING. REMOVE AND SAFELY STORE EXISTING PLUMBING FIXTURES TO PERFORM NEW WORK, RE-INSTALL EXISTING FIXTURES UPON COMPLETION OF NEW WORK. CONNECT NEW PIPING TO EXISTING FIXTURES.

2. EXISTING ROOF DRAINS SHALL BE MAINTAINED OPERATIONAL THROUGHOUT ALL PROJECT PHASES, AS SUCH, EXISTING LEADERS AND RISERS IN EACH PHASE SHALL NOT BE REMOVED UNTIL NEW LEADERS AND MAINS ARE READY FOR CONNECTION TO (E) ROOF DRAINS.

**GENERAL PHASING NOTE:**

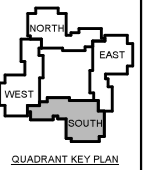
THIS PROJECT IS SCHEDULED TO BE COMPLETED IN MULTIPLE PHASES. THE OWNER WILL OCCUPY ALL PORTIONS OF THE BUILDING THAT ARE NOT ACTIVELY UNDER CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SERVICES TO ALL PARTS OF THE BUILDING NOT ACTIVELY UNDER CONSTRUCTION. SEE A2/MEP000 FOR AN EXAMPLE STRATEGY TO MAINTAIN SERVICE TO OCCUPIED AREAS. INTERRUPTIONS IN SERVICE TO OCCUPIED AREAS SHALL BE KEPT TO A MINIMUM AND SHALL BE STRICTLY COORDINATED WITH MAINE MARITIME ACADEMY. SEE SHEET MEP000 FOR ADDITIONAL INFORMATION AND PHASING NOTES.



A6 PHASE 4 - ROOF PLUMBING PLAN

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075982

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11/22/2023

TITLE  
PHASE 4 ROOF PLUMBING DEMOLITION & NEW PLANS

SHEET  
**P104.5**



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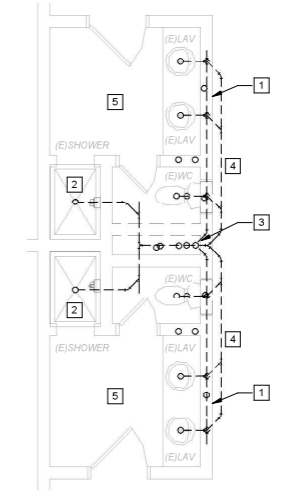
B

A

DEMOLITION KEYED NOTES:

- 1 EXISTING LAVATORY VENT PIPES IN CMU WALLS TO BE ABANDONED IN PLACE. SEE C6 / P500.
- 2 SEE SHOWER DEMOLITION NOTES ON PLANS FOR EXTENT OF DEMOLITION AT SHOWERS.
- 3 REMOVE EXISTING PLUMBING PIPES WITHIN CHASE.
- 4 UNLESS OTHERWISE NOTED, REMOVE ALL EXISTING PLUMBING BRANCH PIPING.
- 5 UNLESS OTHERWISE NOTED, EXISTING FLOOR DRAINS THROUGHOUT THE PROJECT TO REMAIN FOR RE-USE.

REMOVE ALL (E) PIPING UNLESS OTHERWISE NOTED

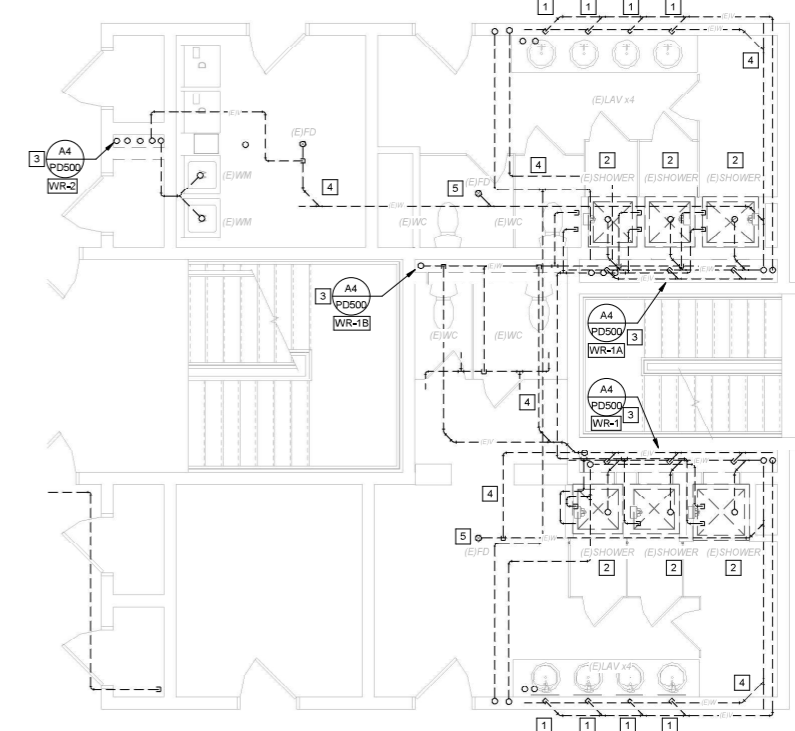


C2 PLUMBING DEMOLITION PART PLAN - TYPICAL TWIN BATHROOM

DEMOLITION KEYED NOTES:

- 1 EXISTING LAVATORY VENT PIPES IN CMU WALLS TO BE ABANDONED IN PLACE. SEE C6 / P500.
- 2 SEE SHOWER DEMOLITION NOTES ON PLANS FOR EXTENT OF DEMOLITION AT SHOWERS.
- 3 REMOVE EXISTING PLUMBING PIPES WITHIN CHASE.
- 4 UNLESS OTHERWISE NOTED, REMOVE ALL EXISTING PLUMBING BRANCH PIPING.
- 5 UNLESS OTHERWISE NOTED, EXISTING FLOOR DRAINS THROUGHOUT PROJECT TO REMAIN FOR RE-USE.

REMOVE ALL (E) PIPING UNLESS OTHERWISE NOTED



**GENERAL DEMOLITION 'TYPICAL' NOTE:**  
 THE TYPICAL BATHROOM DEMOLITION PLANS ON THIS SHEET ARE REPRESENTATIVE OF MANY AREAS WITHIN THE BUILDING BUT DO NOT NECESSARILY REPRESENT ALL BATHROOMS OR BATHROOM GROUPS AS FIXTURE AND PIPING LAYOUTS VARY. THEREFORE, THESE TYPICAL DEMOLITION PLANS SHOULD BE USED FOR REFERENCE ONLY TO GAUGE THE EXTENT OF PLUMBING DEMOLITION REQUIRED AT BATHROOMS THROUGHOUT THE BUILDING, AS NOTED ELSEWHERE. AND UNLESS OTHERWISE NOTED, IT IS THE INTENT OF THIS PROJECT TO REMOVE ALL PLUMBING PIPES WITHIN THE BUILDING AND REPLACE WITH NEW.  
 SEE DEMOLITION NOTES ON PLANS FOR AREA-SPECIFIC WORK.

A2 PLUMBING DEMOLITION PART PLAN - TYPICAL GROUP BATHROOM

No.	Date	Description
Revision Schedule		

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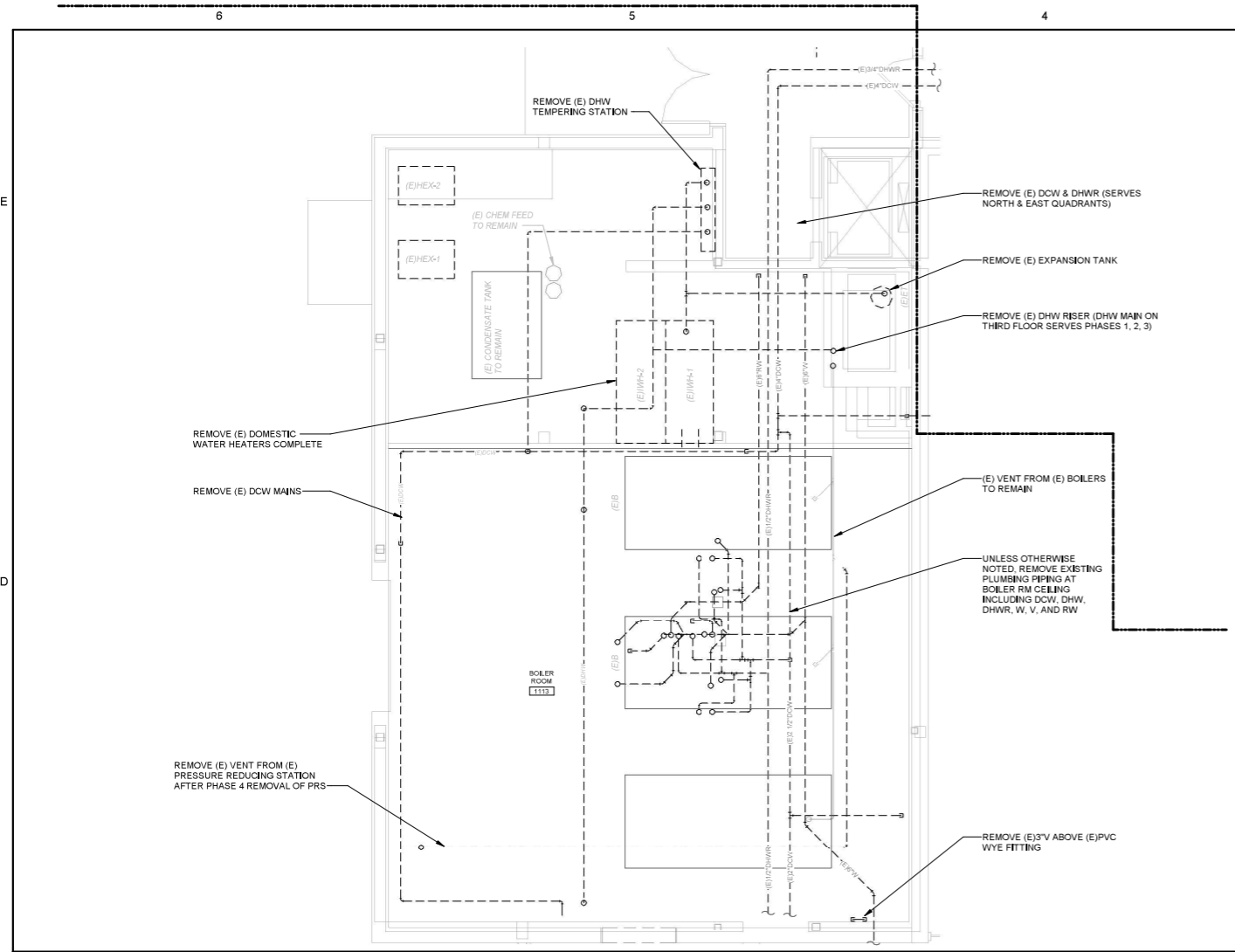
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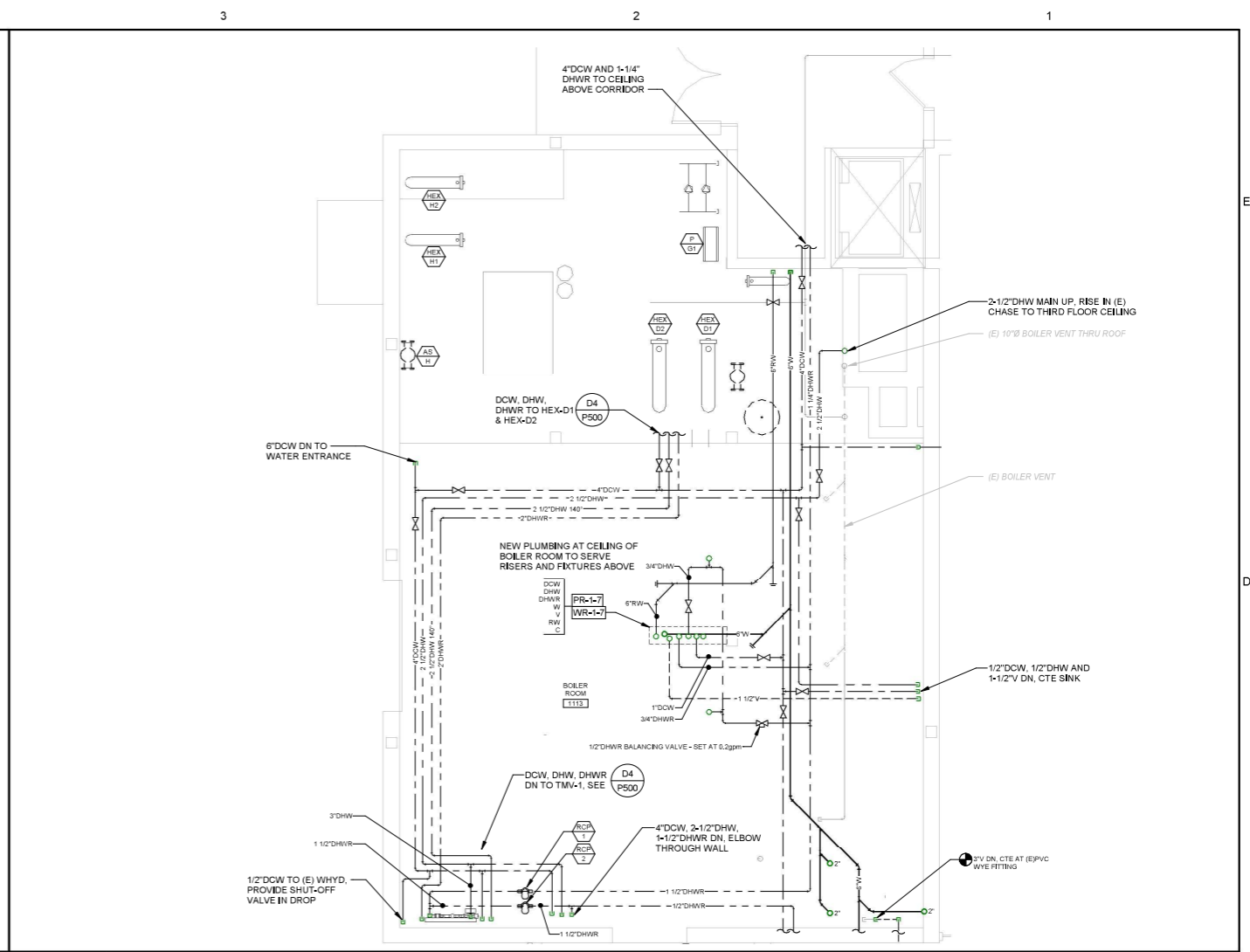
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PLUMBING DEMOLITION PART PLANS

SHEET

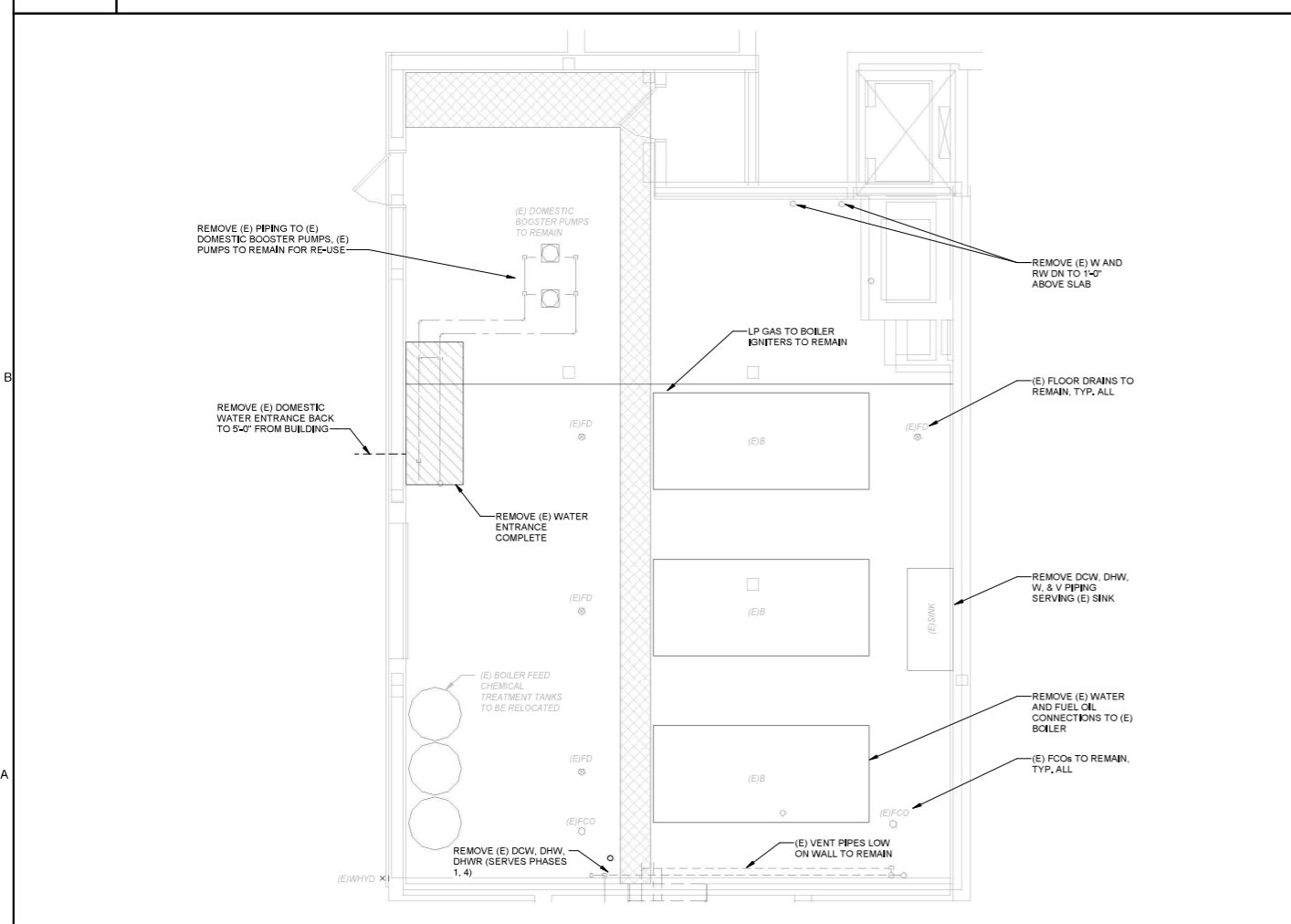
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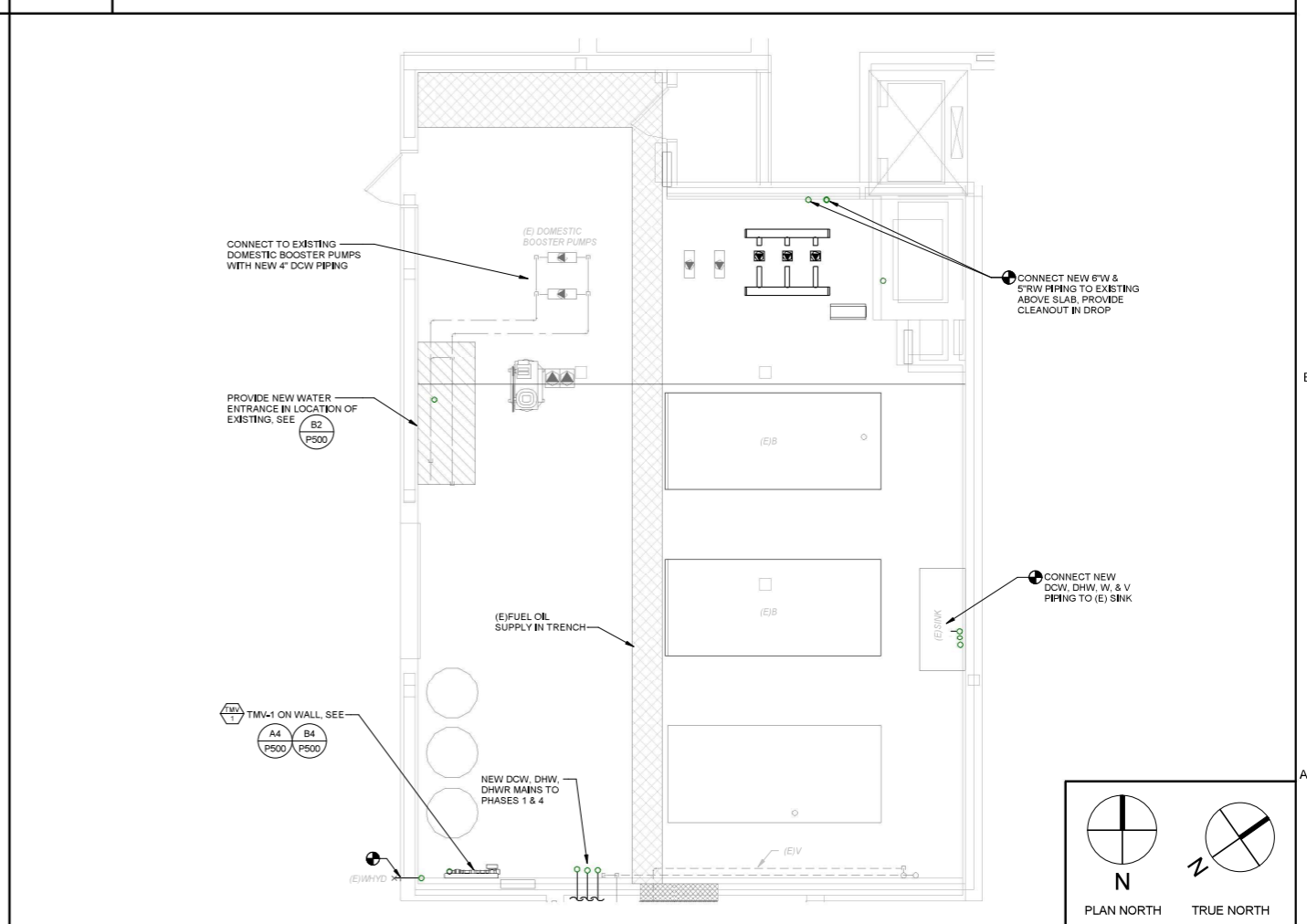
C6 BOILER ROOM PLUMBING DEMOLITION PLAN - MEZZANINE LEVEL



C3 BOILER ROOM PLUMBING PLAN - MEZZANINE LEVEL



A6 BOILER ROOM PLUMBING DEMOLITION PLAN - GROUND LEVEL



A3 BOILER ROOM PLUMBING PLAN - GROUND LEVEL

No.	Date	Description
Revision Schedule		

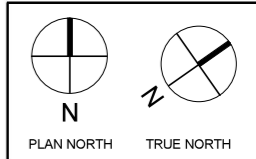
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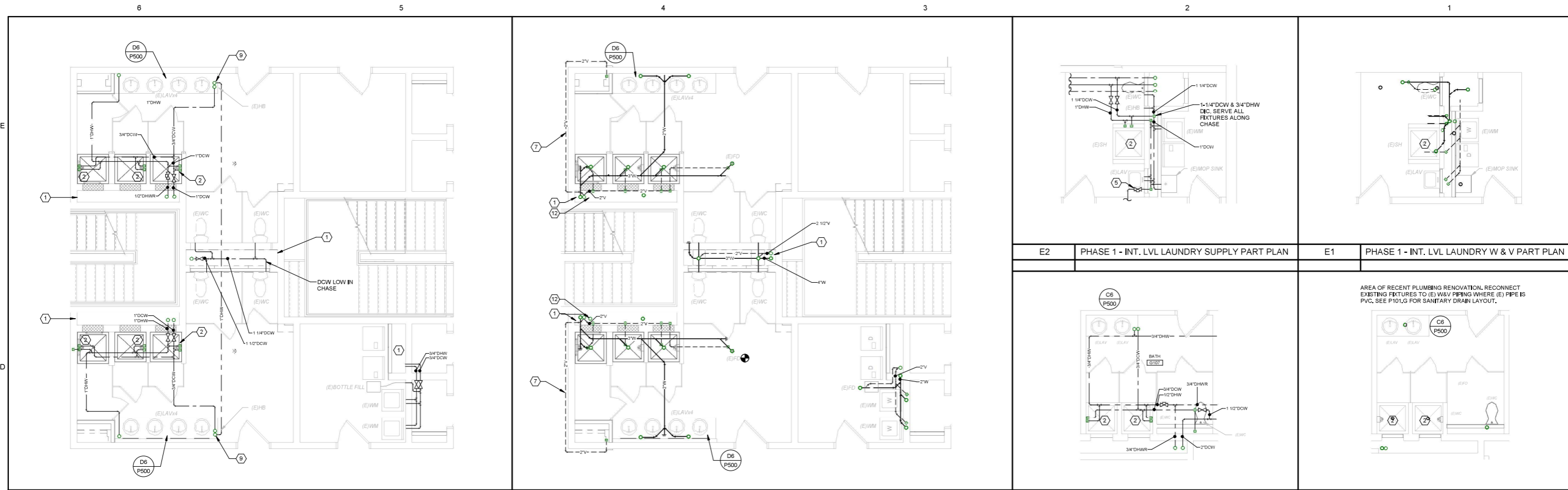
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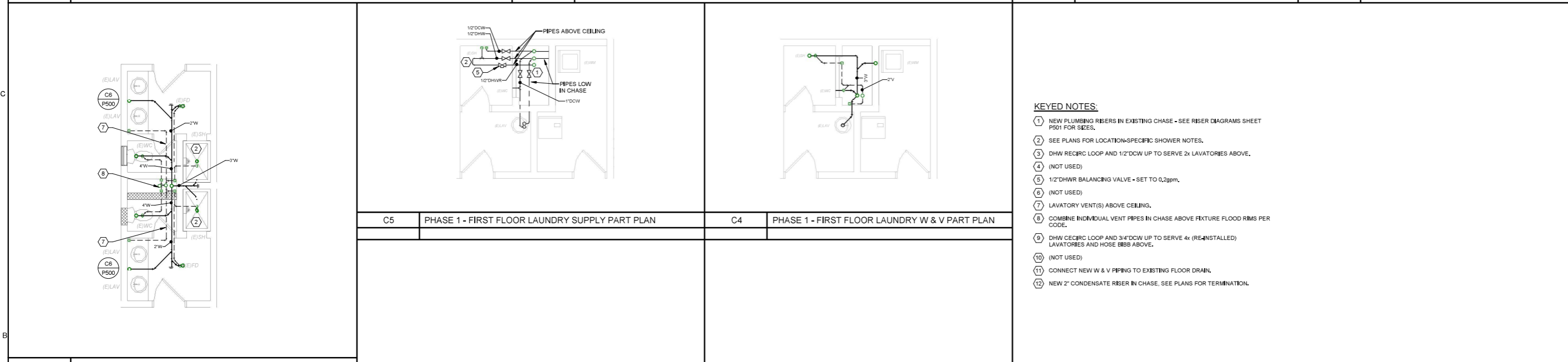
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PLUMBING PART PLANS  
- BOILER ROOM

SHEET  
**P400**

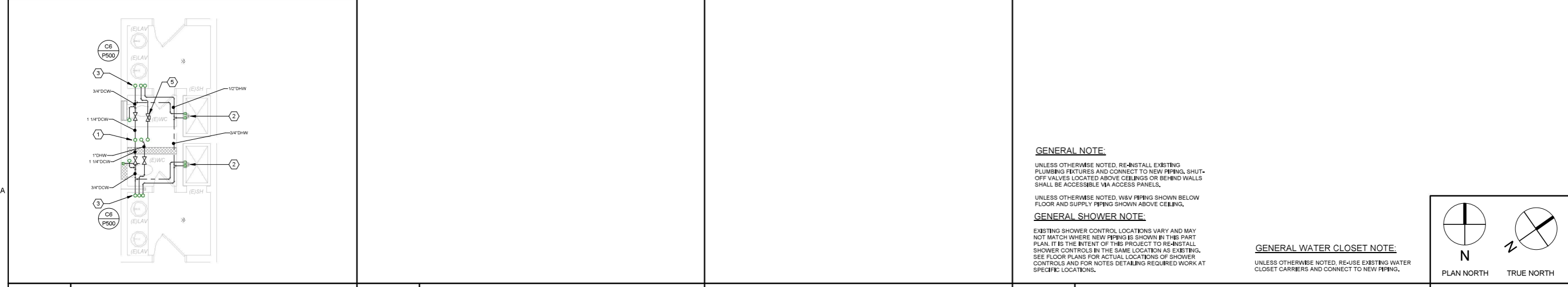




D6	PHASE 1 - GROUP BATHROOM SUPPLY PART PLAN	D4	PHASE 1 - GROUP BATHROOM W & V PART PLAN	D2	PHASE 1 - INT. LVL BATHROOM SUPPLY PART PLAN	D1	PHASE 1 - INT. LVL BATHROOM W&V PART PLAN
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B6	PHASE 1 - TWIN BATHROOM W & V PART PLAN	C5	PHASE 1 - FIRST FLOOR LAUNDRY SUPPLY PART PLAN	C4	PHASE 1 - FIRST FLOOR LAUNDRY W & V PART PLAN
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A6	PHASE 1 - TWIN BATHROOM SUPPLY PART PLAN
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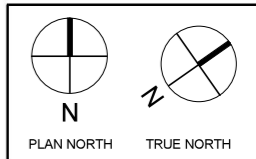
- KEYED NOTES:**
- NEW PLUMBING RISERS IN EXISTING CHASE - SEE RISER DIAGRAMS SHEET P501 FOR SIZES.
  - SEE PLANS FOR LOCATION-SPECIFIC SHOWER NOTES.
  - DHW RECIRC LOOP AND 1/2"DCW UP TO SERVE 2x LAVATORIES ABOVE.
  - (NOT USED)
  - 1/2"DHWR BALANCING VALVE - SET TO 0.2gpm.
  - (NOT USED)
  - LAVATORY VENT(S) ABOVE CEILING.
  - COMBINE INDIVIDUAL VENT PIPES IN CHASE ABOVE FIXTURE FLOOR RIMS PER CODE.
  - DHW RECIRC LOOP AND 3/4"DCW UP TO SERVE 4x (RE-INSTALLED) LAVATORIES AND HOSE BIBBS ABOVE.
  - (NOT USED)
  - CONNECT NEW W & V PIPING TO EXISTING FLOOR DRAIN.
  - NEW 2" CONDENSATE RISER IN CHASE, SEE PLANS FOR TERMINATION.

**GENERAL NOTE:**  
UNLESS OTHERWISE NOTED, RE-INSTALL EXISTING PLUMBING FIXTURES AND CONNECT TO NEW PIPING. SHUT-OFF VALVES LOCATED ABOVE CEILINGS OR BEHIND WALLS SHALL BE ACCESSIBLE VIA ACCESS PANELS.

UNLESS OTHERWISE NOTED, W&V PIPING SHOWN BELOW FLOOR AND SUPPLY PIPING SHOWN ABOVE CEILING.

**GENERAL SHOWER NOTE:**  
EXISTING SHOWER CONTROL LOCATIONS VARY AND MAY NOT MATCH WHERE NEW PIPING IS SHOWN IN THIS PART PLAN. IT IS THE INTENT OF THIS PROJECT TO RE-INSTALL SHOWER CONTROLS IN THE SAME LOCATION AS EXISTING. SEE FLOOR PLANS FOR ACTUAL LOCATIONS OF SHOWER CONTROLS AND FOR NOTES DETAILING REQUIRED WORK AT SPECIFIC LOCATIONS.

**GENERAL WATER CLOSET NOTE:**  
UNLESS OTHERWISE NOTED, RE-USE EXISTING WATER CLOSET CARRIERS AND CONNECT TO NEW PIPING.



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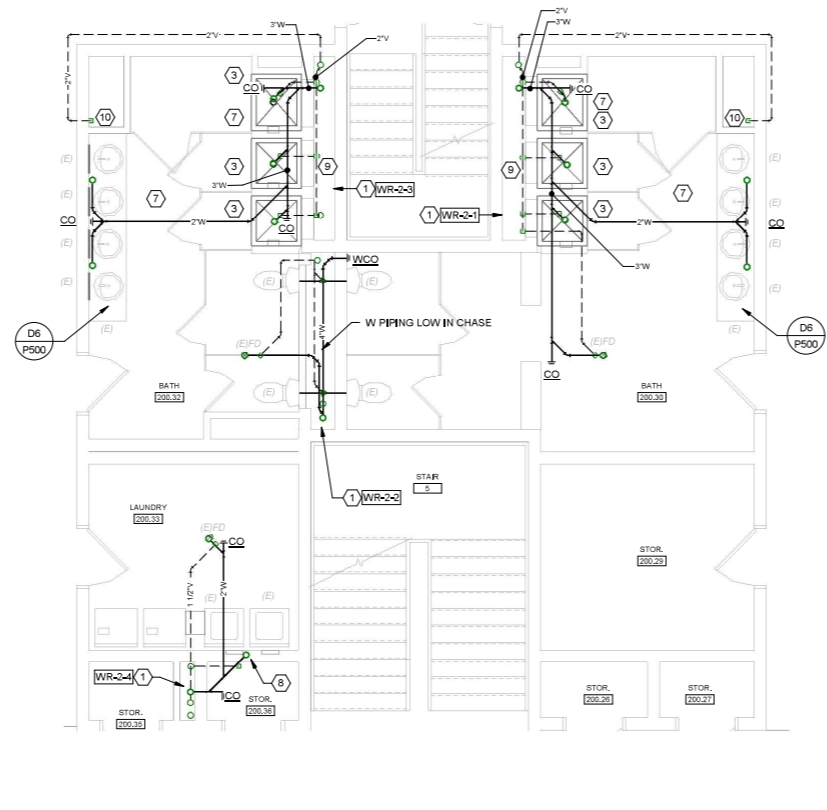
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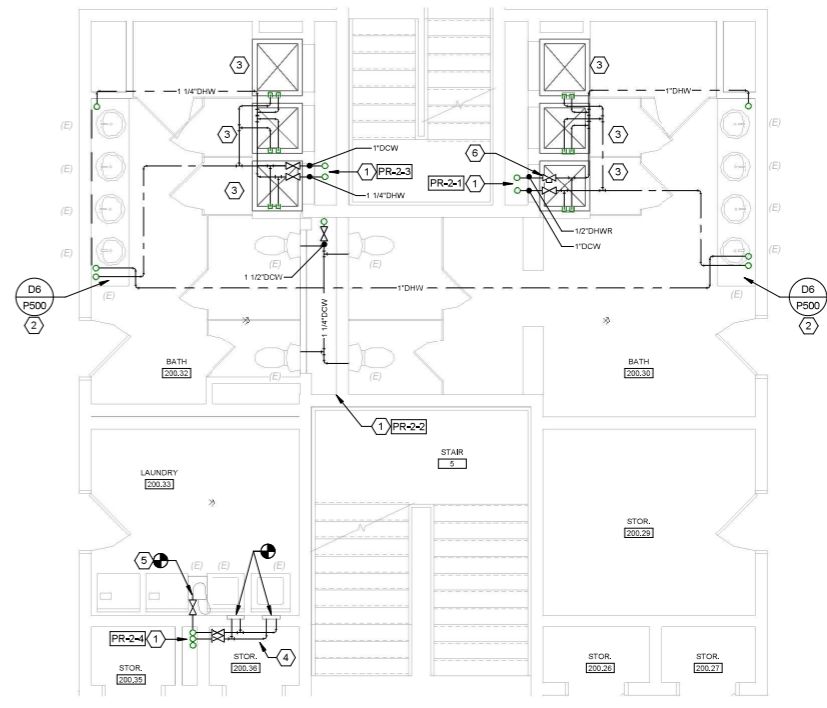
TITLE  
PHASE 1 - PLUMBING PART PLANS

SHEET  
**P401**

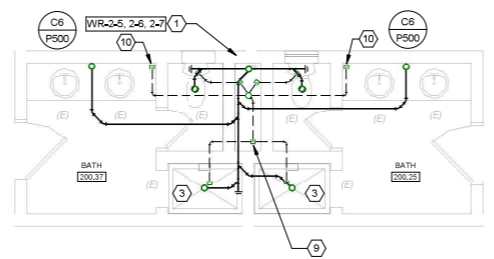




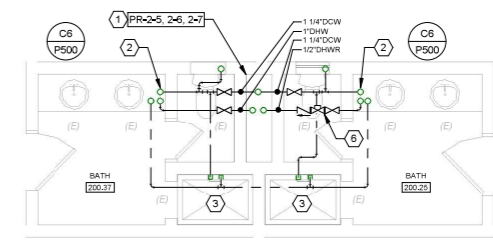
D4 PHASE 2 - GROUP BATHROOM PLUMBING W & V PART PLAN



D2 PHASE 2 - GROUP BATHROOM PLUMBING SUPPLY PART PLAN



B4 PHASE 2 - TWIN BATHROOM PLUMBING W & V PART PLAN



B2 PHASE 2 - TWIN BATHROOM PLUMBING SUPPLY PART PLAN

**KEYED NOTES:**

- ① NEW PLUMBING RISERS IN EXISTING CHASE, SEE SHEET P502 FOR SIZES.
- ② NEW DCW & DHW PIPING UP THROUGH FLOOR INTO BOTTOM OF LAV APRON.
- ③ SEE PLANS FOR LOCATION-SPECIFIC SHOWER NOTES.
- ④ SURFACE MOUNT 3/4"DCW AND 3/4"DHW IN STORAGE CLOSET, CONNECT TO (E) WASHER OUTLET BOXES.
- ⑤ 1/2"DCW AT CEILING - PROVIDE SHUT-OFF VALVE & NECESSARY FITTINGS TO CONNECT TO EXISTING BOTTLE FILL.
- ⑥ 1/2"DHW BALANCING VALVE - SET TO 0.2gpm.
- ⑦ RUN WASTE AND VENT PIPING AS HIGH AS POSSIBLE IN THIS AREA (ABOVE NEW DUCTWORK).
- ⑧ COMBINE WASTE FROM WASHER OUTLET BOXES IN WALL.
- ⑨ COMBINE VENTS IN CHASE ABOVE FLOOD RIM PER CODE.
- ⑩ LAVATORY VENT UP (CONCEALED), SEE LAVATORY PIPING DETAIL.

**GENERAL NOTE:**

UNLESS OTHERWISE NOTED, RE-INSTALL EXISTING PLUMBING FIXTURES AND CONNECT TO NEW PIPING. SHUT-OFF VALVES LOCATED ABOVE CEILINGS OR BEHIND WALLS SHALL BE ACCESSIBLE VIA ACCESS PANELS.

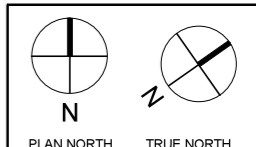
UNLESS OTHERWISE NOTED, W&V PIPING SHOWN BELOW FLOOR AND SUPPLY PIPING SHOWN ABOVE CEILING.

**GENERAL SHOWER NOTE:**

EXISTING SHOWER CONTROL LOCATIONS VARY AND MAY NOT MATCH WHERE NEW PIPING IS SHOWN IN THIS PART PLAN. IT IS THE INTENT OF THIS PROJECT TO RE-INSTALL SHOWER CONTROLS IN THE SAME LOCATION AS EXISTING. SEE FLOOR PLANS FOR ACTUAL LOCATIONS OF SHOWER CONTROLS AND FOR NOTES DETAILED REQUIRED WORK AT SPECIFIC LOCATIONS.

**GENERAL WATER CLOSET NOTE:**

UNLESS OTHERWISE NOTED, RE-USE EXISTING WATER CLOSET CARRIERS AND CONNECT TO NEW PIPING.



A2 NONE

NOTES

No.	Date	Description
		Revision Schedule

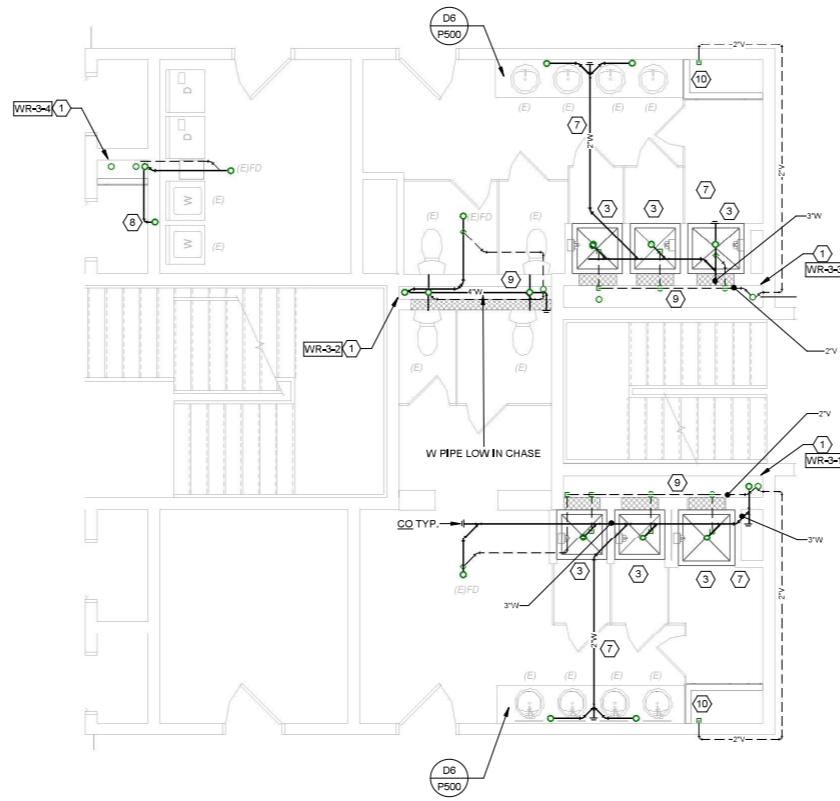
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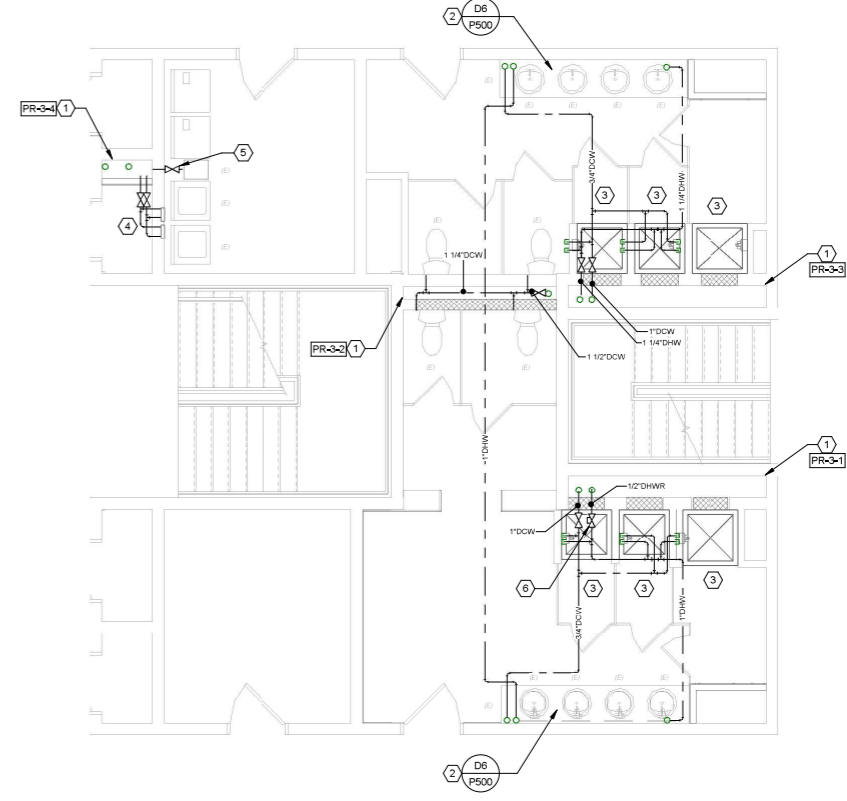
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TITLE  
PHASE 2 - PLUMBING PART PLANS

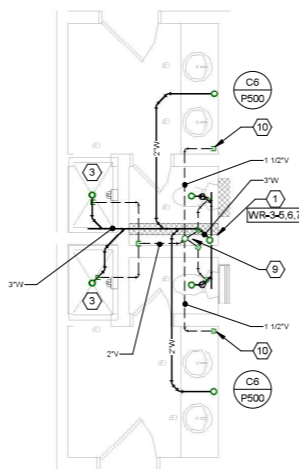
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**P402**



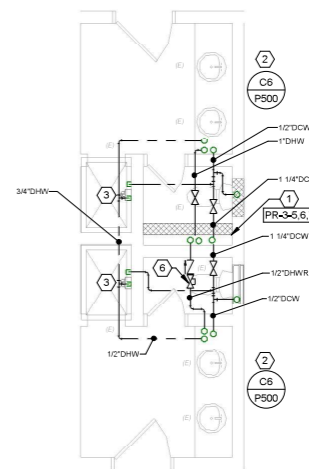
D4 PHASE 3 - GROUP BATHROOM PLUMBING W & V PART PLAN



D2 PHASE 3 - GROUP BATHROOM PLUMBING SUPPLY PART PLAN



B4 PHASE 3 - TWIN BATHROOM PLUMBING W&V PART PLAN



B2 PHASE 3 - TWIN BATHROOM PLUMBING SUPPLY PART PLAN

**KEYED NOTES:**

- ① NEW PLUMBING RISERS IN EXISTING CHASE, SEE SHEET P503 FOR SIZES.
- ② NEW DCW & DHW PIPING UP THROUGH FLOOR INTO BOTTOM OF LAV APRON.
- ③ SEE PLANS FOR LOCATION-SPECIFIC SHOWER NOTES.
- ④ SURFACE MOUNT 3/4"DCW AND 3/4"DHW IN STORAGE CLOSET, CONNECT TO (E) WASHER OUTLET BOXES.
- ⑤ 1/2"DCW AT CEILING - PROVIDE SHUT-OFF VALVE & NECESSARY FITTINGS TO CONNECT TO EXISTING BOTTLE FILL.
- ⑥ 1/2"DHW BALANCING VALVE - SET TO 0.2gpm.
- ⑦ RUN WASTE AND VENT PIPING AS HIGH AS POSSIBLE IN THIS AREA (ABOVE NEW DUCTWORK).
- ⑧ COMBINE WASTE FROM WASHER OUTLET BOXES IN WALL.
- ⑨ COMBINE VENTS IN CHASE ABOVE FLOOD RIM PER CODE.
- ⑩ LAVATORY VENT UP (CONCEALED), SEE LAVATORY PIPING DETAIL.

**GENERAL NOTE:**

UNLESS OTHERWISE NOTED, RE-INSTALL EXISTING PLUMBING FIXTURES AND CONNECT TO NEW PIPING. SHUT-OFF VALVES LOCATED ABOVE CEILINGS OR BEHIND WALLS SHALL BE ACCESSIBLE VIA ACCESS PANELS.

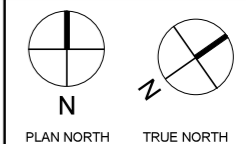
UNLESS OTHERWISE NOTED, W&V PIPING SHOWN BELOW FLOOR AND SUPPLY PIPING SHOWN ABOVE CEILING.

**GENERAL SHOWER NOTE:**

EXISTING SHOWER CONTROL LOCATIONS VARY AND MAY NOT MATCH WHERE NEW PIPING IS SHOWN IN THIS PART PLAN. IT IS THE INTENT OF THIS PROJECT TO RE-INSTALL SHOWER CONTROLS IN THE SAME LOCATION AS EXISTING. SEE FLOOR PLANS FOR ACTUAL LOCATIONS OF SHOWER CONTROLS AND FOR NOTES DETAILED REQUIRED WORK AT SPECIFIC LOCATIONS.

**GENERAL WATER CLOSET NOTE:**

UNLESS OTHERWISE NOTED, RE-USE EXISTING WATER CLOSET CARRIERS AND CONNECT TO NEW PIPING.



A2 NOTES

NONE

No.	Date	Description
		Revision Schedule

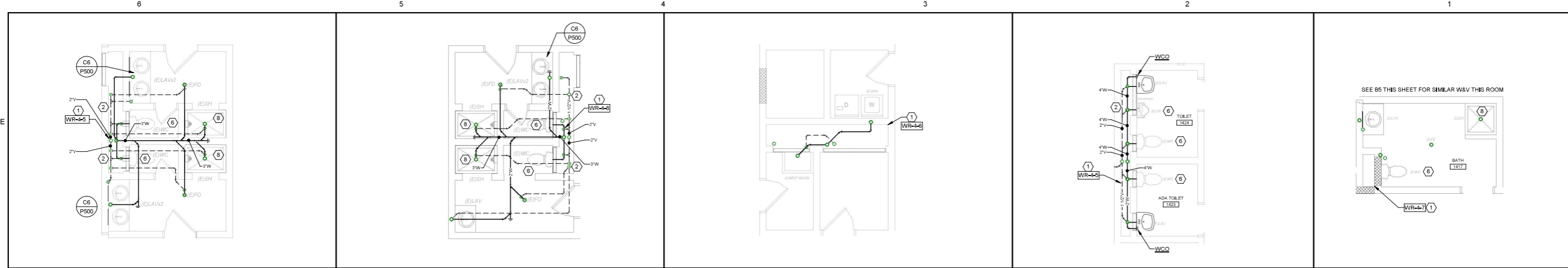
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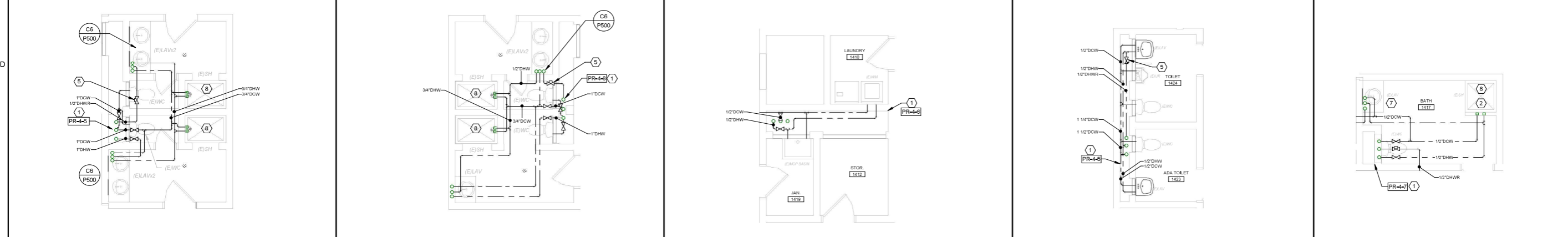
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TITLE PHASE 3 - PLUMBING PART PLANS

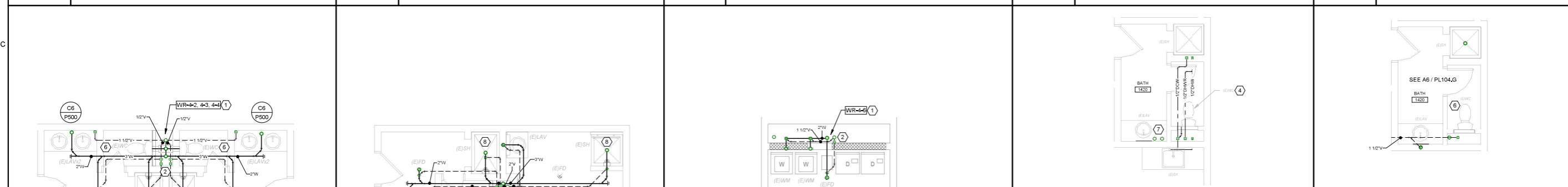
SHEET P403



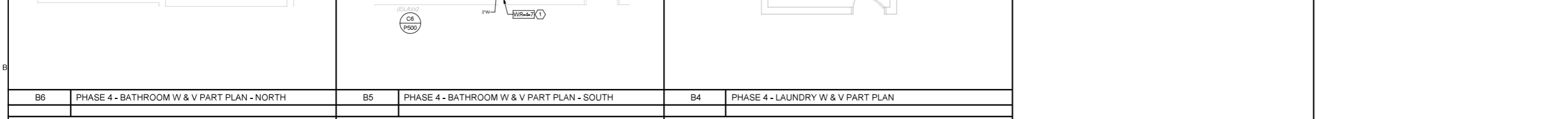
E6 PHASE 4 BATH W & V PART PLAN - WEST  
 E5 PHASE 4 BATH W & V PART PLAN - EAST  
 E4 PHASE 4 - FIRST FLOOR LAUNDRY W & V PART PLAN  
 E2 PHASE 4 - RM 1423, 1424 W & V PART PLAN  
 E1 PHASE 4 - RM 1417 W & V PART PLAN



D6 PHASE 4 - BATHROOM SUPPLY PART PLAN - WEST  
 D5 PHASE 4 - BATHROOM SUPPLY PART PLAN - EAST  
 D4 PHASE 4 - FIRST FLOOR LAUNDRY SUPPLY PART PLAN  
 D2 PHASE 4 - RM 1423, 1424 SUPPLY PART PLAN  
 D1 PHASE 4 - RM 1417 SUPPLY PART PLAN



B6 PHASE 4 - BATHROOM W & V PART PLAN - NORTH  
 B5 PHASE 4 - BATHROOM W & V PART PLAN - SOUTH  
 B4 PHASE 4 - LAUNDRY W & V PART PLAN



A6 PHASE 4 - BATHROOM SUPPLY PART PLAN - NORTH  
 A5 PHASE 4 - BATHROOM SUPPLY PART PLAN - SOUTH  
 A4 PHASE 4 - LAUNDRY SUPPLY PART PLAN

**KEYED NOTES:**

- NEW PLUMBING RISERS IN EXISTING CHASE, SEE RISER DIAGRAM SHEET P504 FOR SIZES.
- COMBINE VENTS IN CHASE ABOVE FLOOD RIM PER CODE.
- DHW RECIRC LOOP AND 1/2" DOWN UP TO SERVE LAVATORIES ABOVE, SURFACE MOUNT PIPING WITHIN ENCLOSURE, SEE A2 / P504.
- 1-1/4" DCW TO (RE-INSTALLED) EXISTING WATER CLOSET.
- DHWR BALANCING VALVE - SET TO 0.2gpm.
- (NOT USED)
- 1/2" DCW & DHW FROM BELOW, CONNECT TO (E) LAVATORY, SURFACE MOUNT PIPING WITHIN ENCLOSURE.
- SEE PLANS FOR LOCATION-SPECIFIC SHOWER NOTES.

**GENERAL NOTE:**  
 UNLESS OTHERWISE NOTED, RE-INSTALL EXISTING PLUMBING FIXTURES AND CONNECT TO NEW PIPING. SHUT-OFF VALVES LOCATED ABOVE CEILINGS OR BEHIND WALLS SHALL BE ACCESSIBLE VIA ACCESS PANELS.

**GENERAL SHOWER NOTE:**  
 EXISTING SHOWER CONTROL LOCATIONS VARY AND MAY NOT MATCH WHERE NEW PIPING IS SHOWN IN THIS PART PLAN. IT IS THE INTENT OF THIS PROJECT TO RE-INSTALL SHOWER CONTROLS IN THE SAME LOCATION AS EXISTING. SEE FLOOR PLANS FOR ACTUAL LOCATIONS OF SHOWER CONTROLS AND FOR NOTES DETAILING REQUIRED WORK AT SPECIFIC LOCATIONS.

**GENERAL WATER CLOSET NOTE:**  
 UNLESS OTHERWISE NOTED, RE-USE EXISTING WATER CLOSET CARRIERS AND CONNECT TO NEW PIPING.

**NOTES**  
 NONE

**PLAN NORTH TRUE NORTH**

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No.	Date	Description
		Revision Schedule

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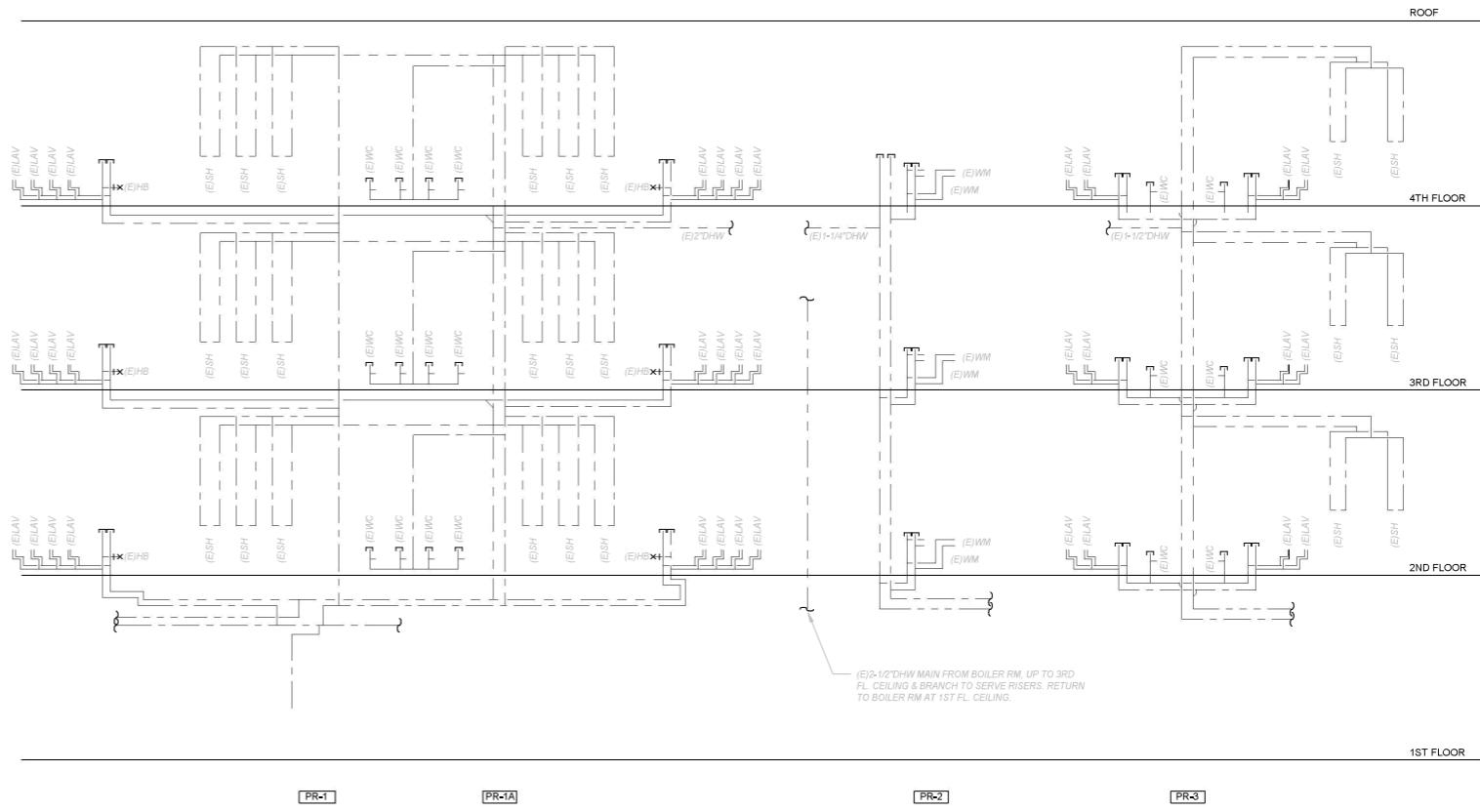
JOB NO. 075982

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TITLE PHASE 4 - PLUMBING PART PLANS

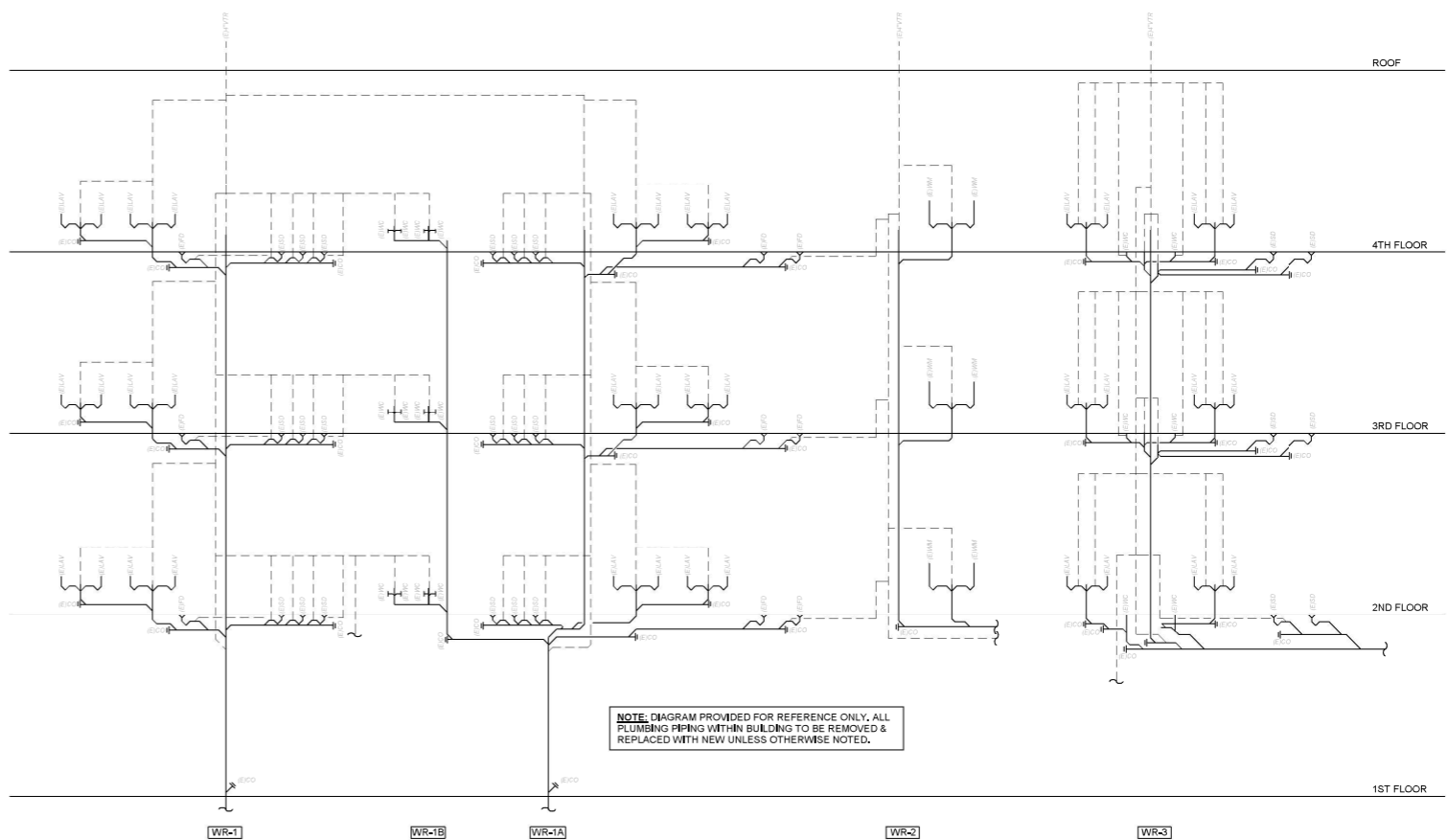
SHEET **P404**





**NOTE:** DIAGRAM PROVIDED FOR REFERENCE ONLY. ALL PLUMBING PIPING WITHIN BUILDING TO BE REMOVED & REPLACED WITH NEW UNLESS OTHERWISE NOTED.

C4 PLUMBING RISER DIAGRAM - EXISTING SUPPLY - PHASE 2 & 3



**NOTE:** DIAGRAM PROVIDED FOR REFERENCE ONLY. ALL PLUMBING PIPING WITHIN BUILDING TO BE REMOVED & REPLACED WITH NEW UNLESS OTHERWISE NOTED.

A4 PLUMBING RISER DIAGRAM - EXISTING WASTE & VENT - PHASE 2 & 3

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TITLE  
EXISTING PLUMBING  
RISER DIAGRAMS

SHEET  
**PD500**

6

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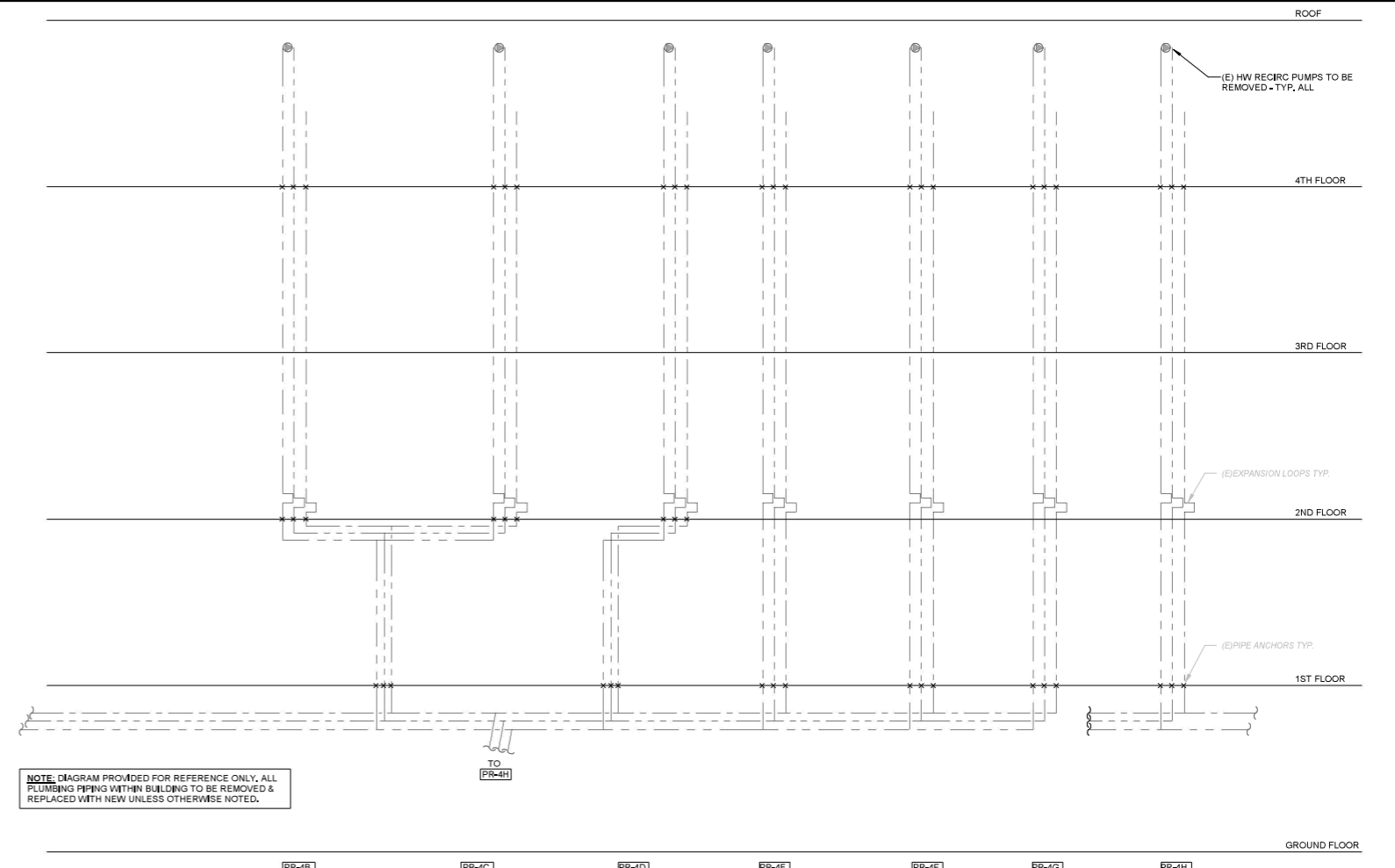
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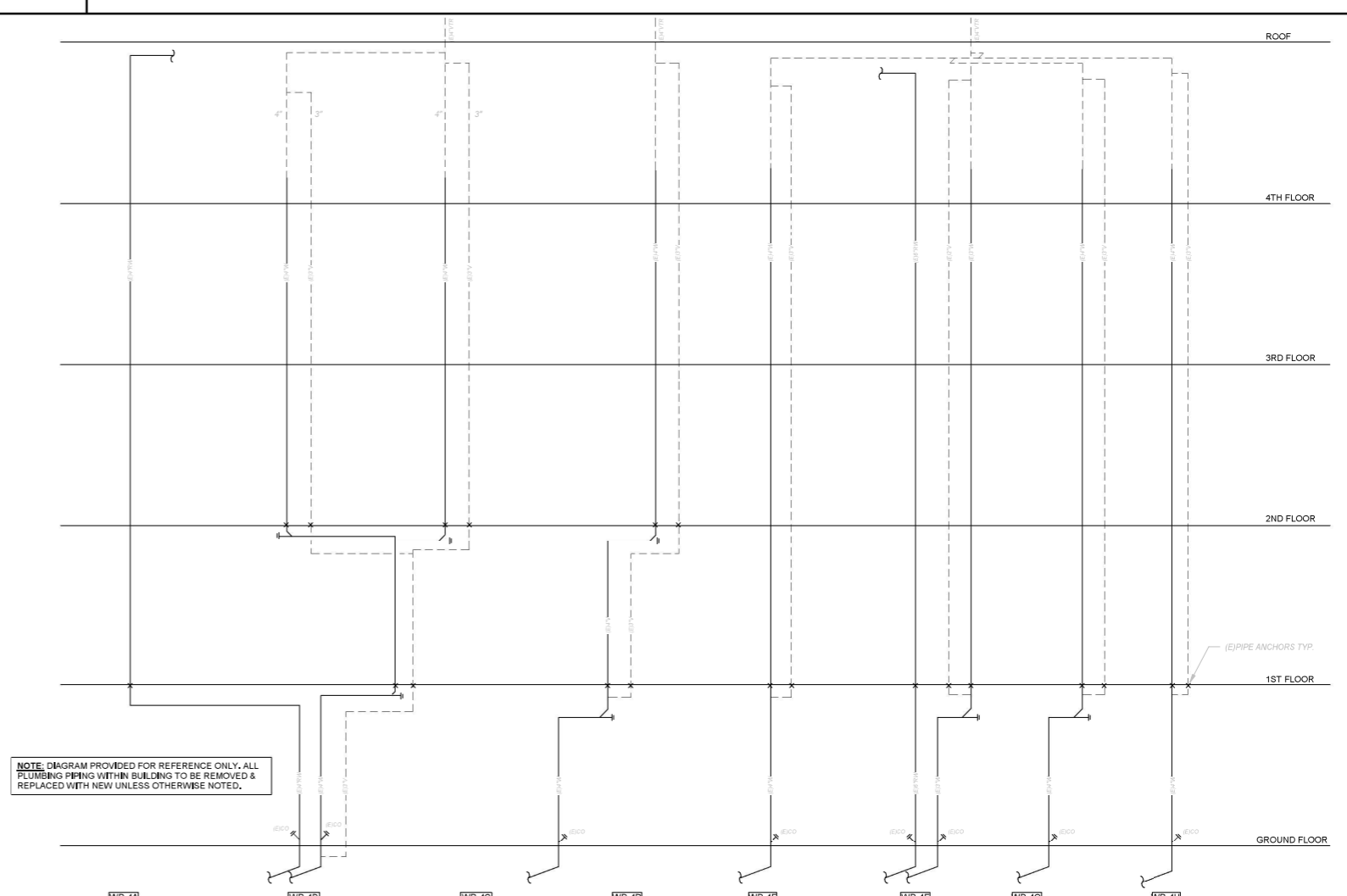
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B

A



C4 PLUMBING RISER DIAGRAM - EXISTING SUPPLY - PHASE 4



A4 PLUMBING RISER DIAGRAM - EXISTING WASTE & VENT - PHASE 4



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TITLE  
EXISTING PLUMBING  
RISER DIAGRAMS

SHEET  
PD501

6

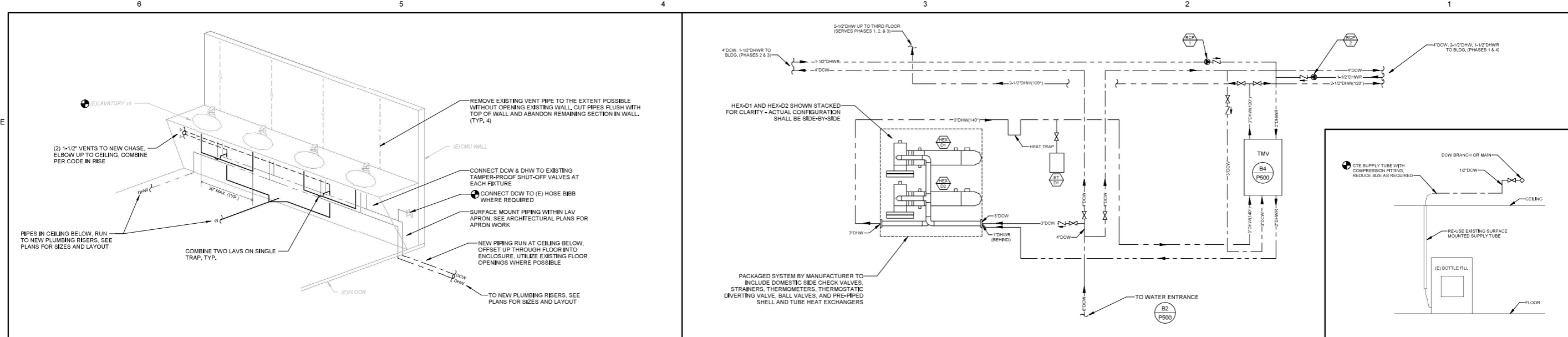
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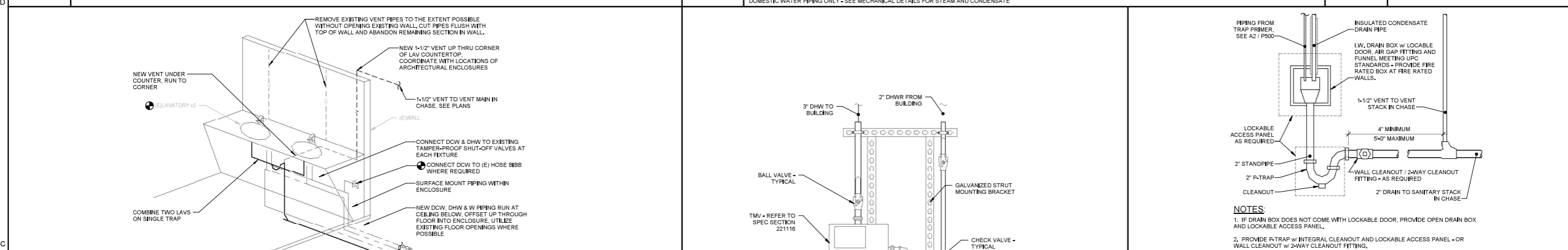
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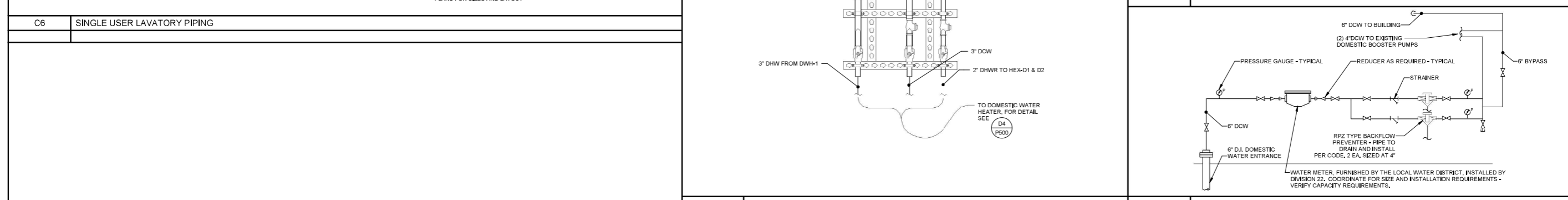
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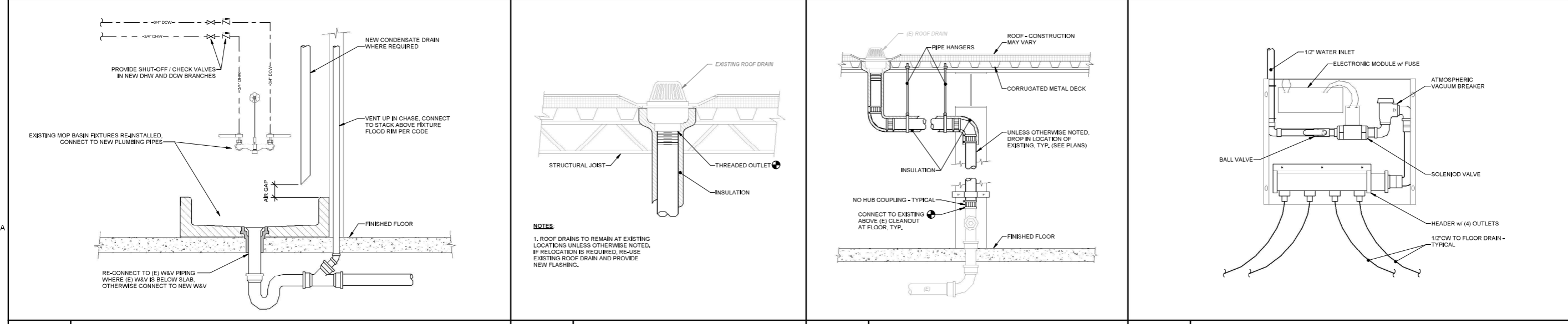
D6 COMMUNITY LAVATORY PIPING | D4 DOMESTIC WATER HEATER PIPING SCHEMATIC | D1 BOTTLE FILL CONNECTION



C6 SINGLE USER LAVATORY PIPING | B4 TMV PACKAGED MIXING STATION | C2 INDIRECT WASTE DRAIN BOX PIPING DIAGRAM



C2 INDIRECT WASTE DRAIN BOX PIPING DIAGRAM | B2 DOMESTIC WATER ENTRANCE PIPING



A6 MOP BASIN PIPING | A4 ROOF DRAIN PIPING | A3 ROOF DRAIN PIPING TO BELOW GRADE | A2 ELECTRONIC TRAP PRIMER PIPING

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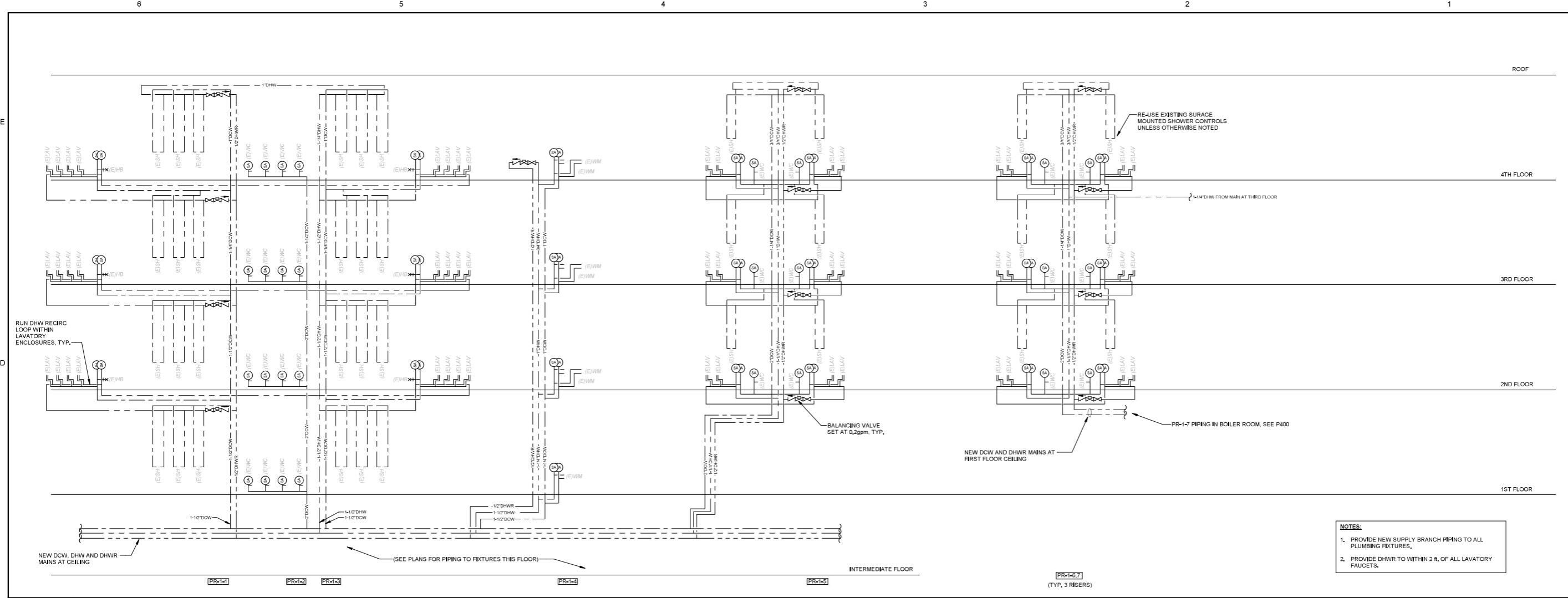
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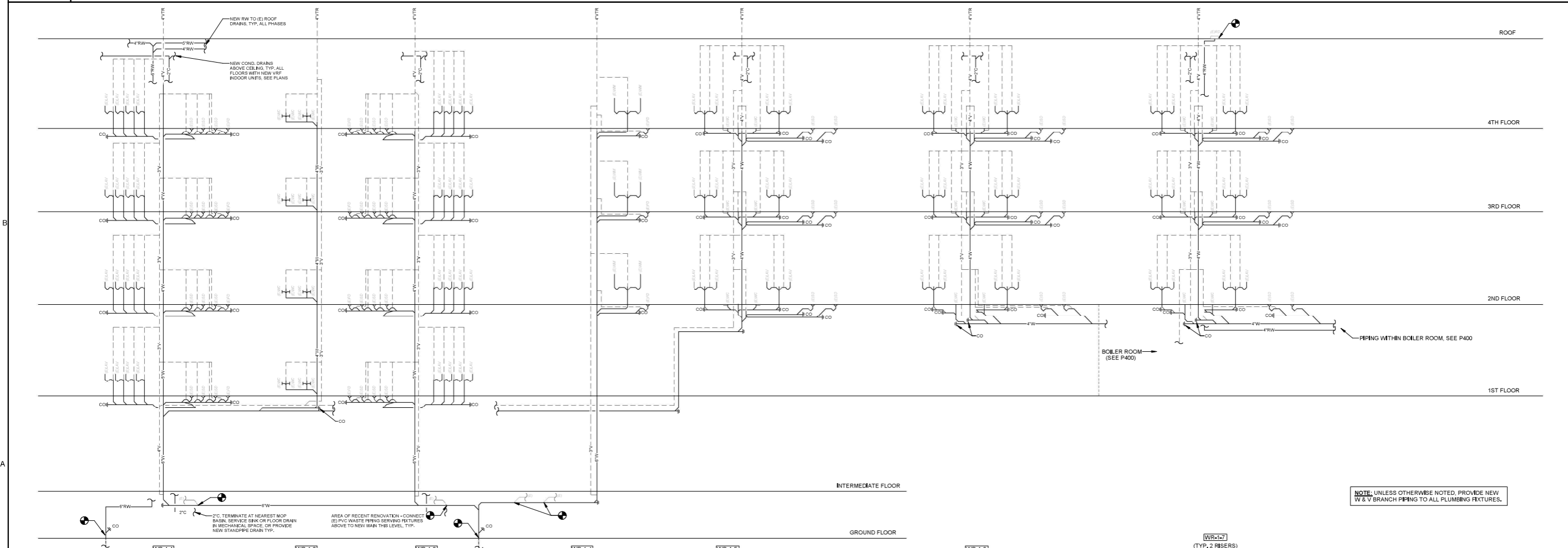
TITLE PLUMBING DETAILS

SHEET  
**P500**





C4 PLUMBING RISER DIAGRAM - NEW SUPPLY - PHASE 1



A4 PLUMBING RISER DIAGRAM - NEW WASTE & VENT - PHASE 1

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TITLE  
PHASE 1 - PLUMBING RISER DIAGRAMS

SHEET  
**P501**

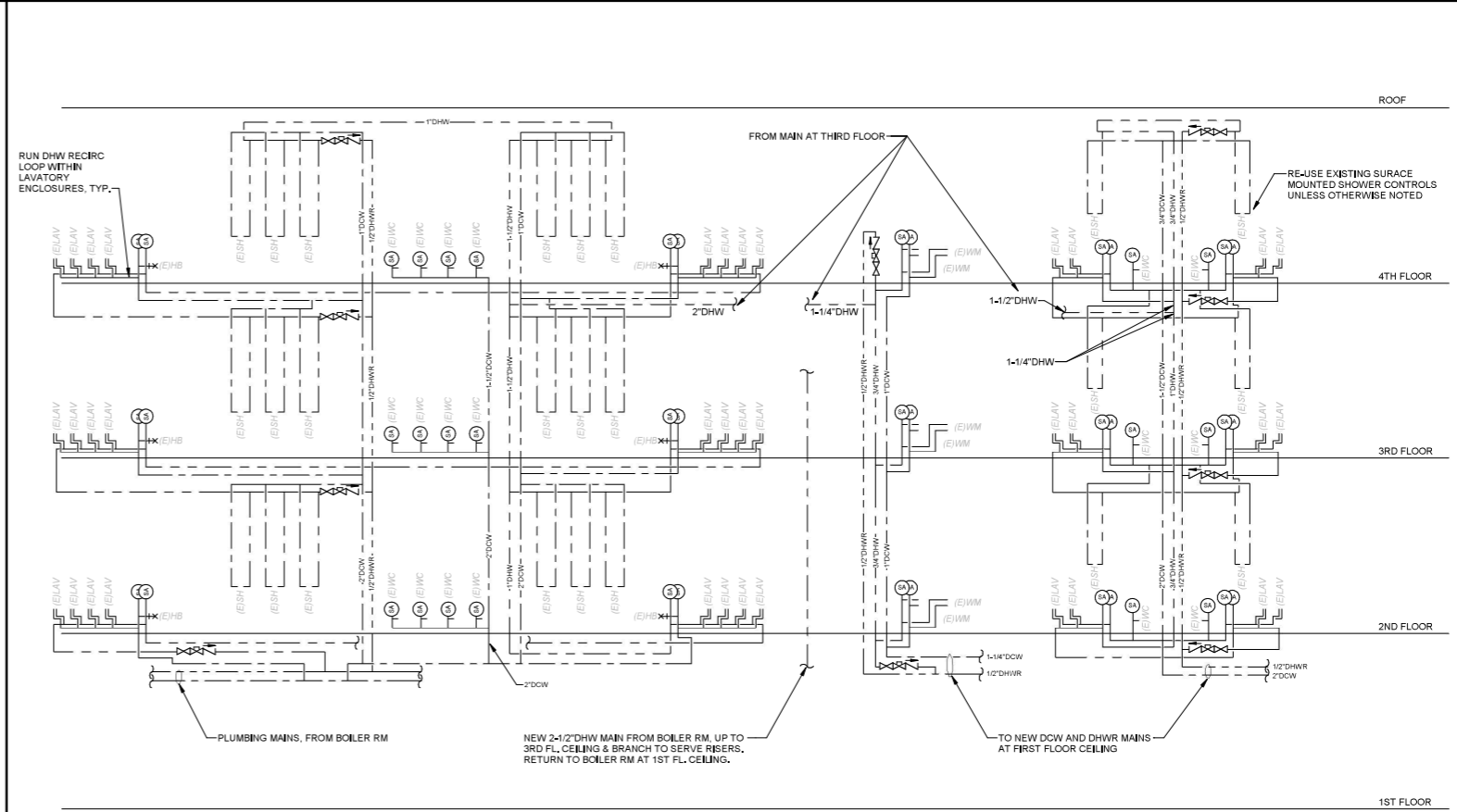
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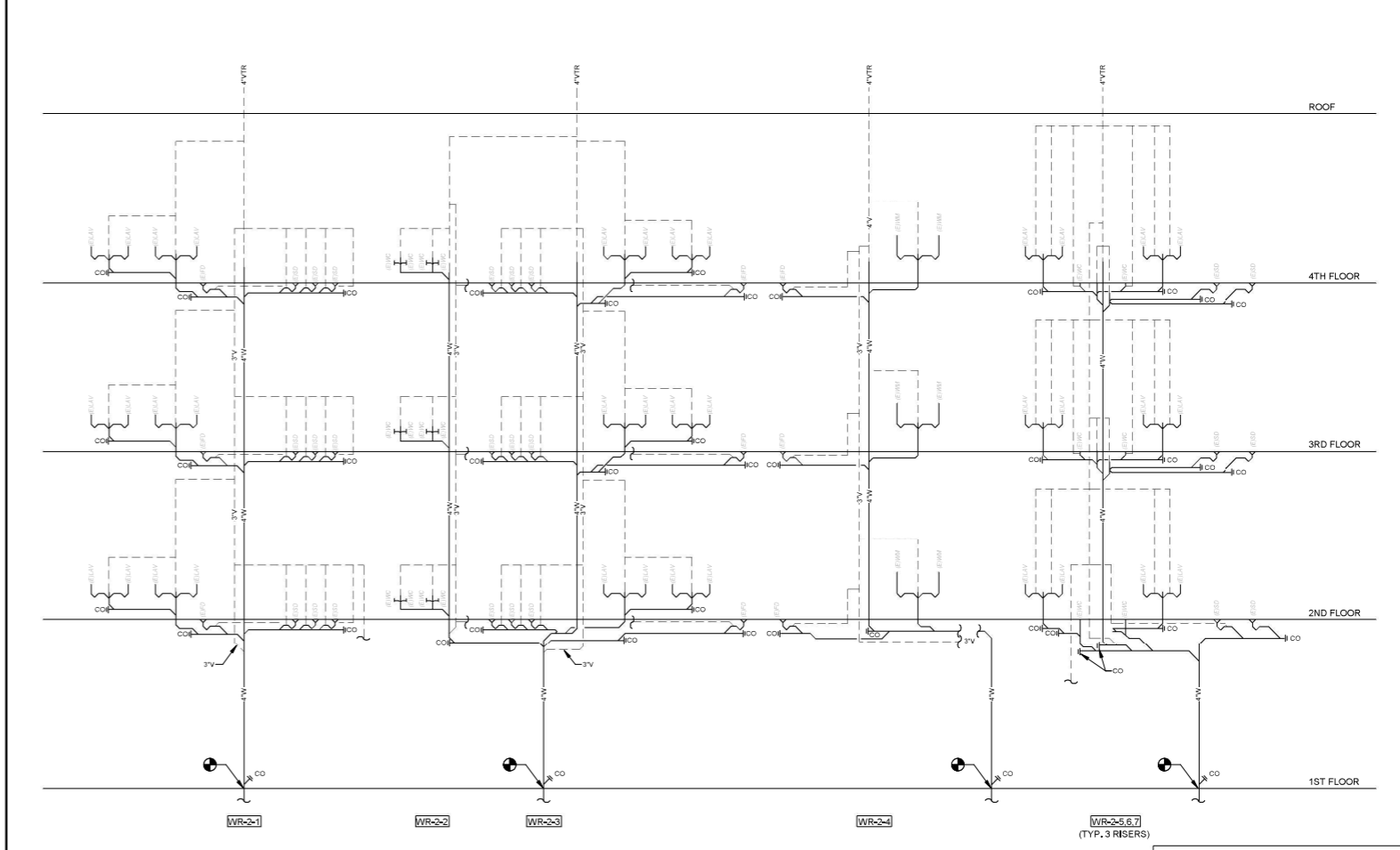
B

A



- NOTES:**
1. PROVIDE NEW SUPPLY BRANCH PIPING TO ALL PLUMBING FIXTURES.
  2. PROVIDE DHWR TO WITHIN 2 FT. OF ALL LAVATORY FAUCETS.

C4 PLUMBING RISER DIAGRAM - NEW SUPPLY - PHASE 2



A4 PLUMBING RISER DIAGRAM - NEW WASTE & VENT - PHASE 2

No.	Date	Description
Revision Schedule		

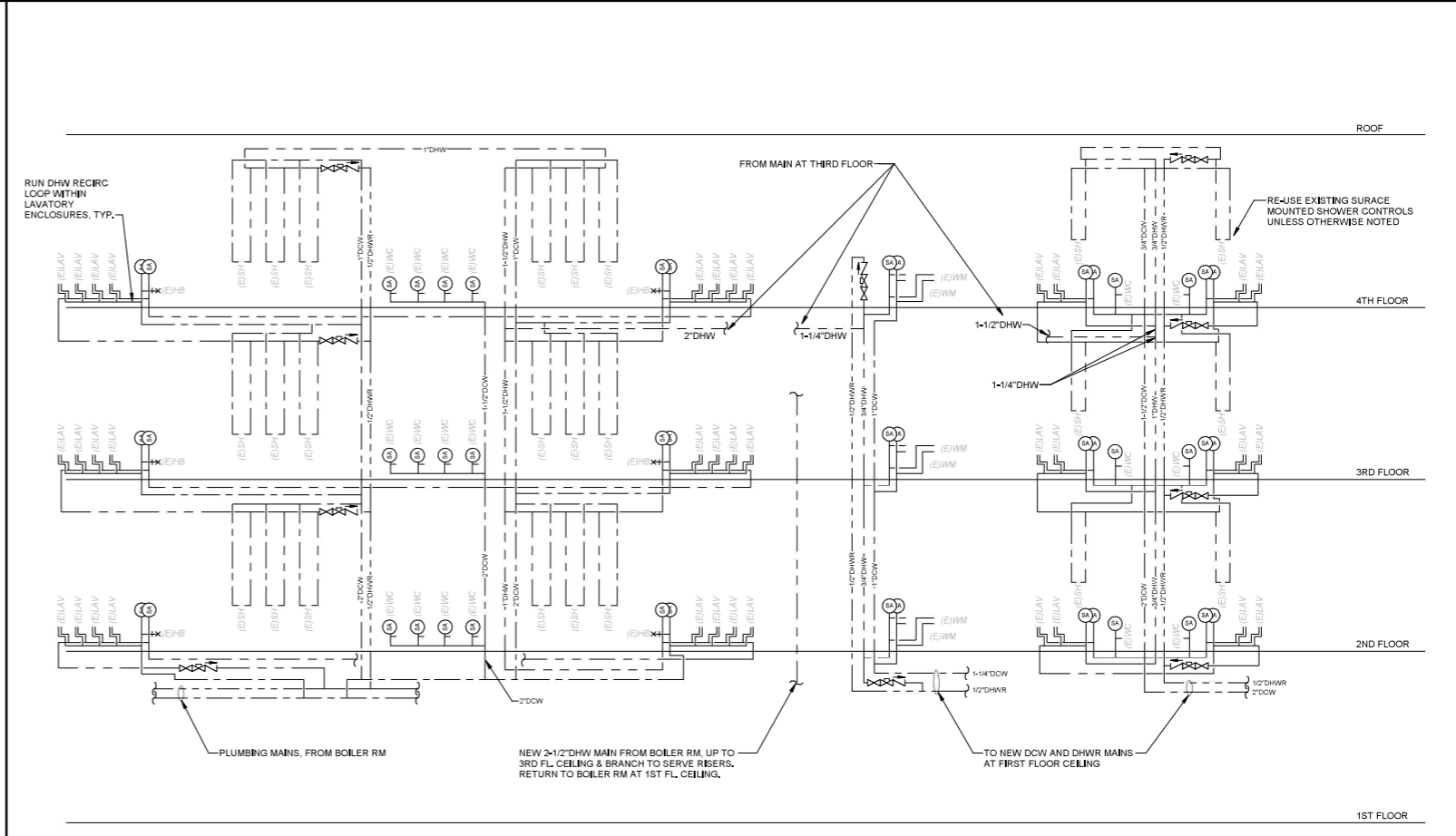
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TITLE  
PHASE 2 - PLUMBING RISER DIAGRAMS

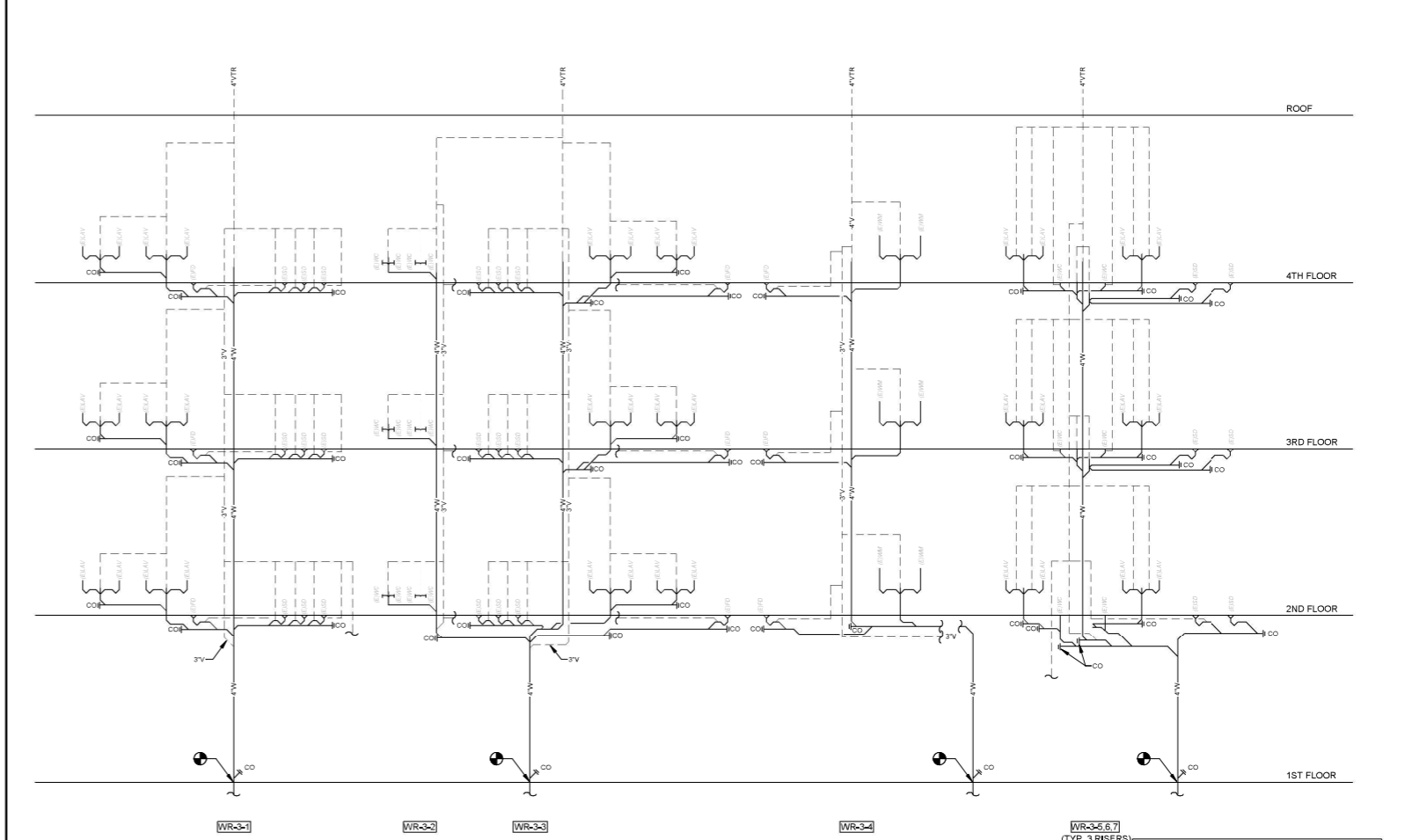
SHEET  
P502



- NOTES:**
1. PROVIDE NEW SUPPLY BRANCH PIPING TO ALL PLUMBING FIXTURES.
  2. PROVIDE DHWR TO WITHIN 2 ft. OF ALL LAVATORY FAUCETS.

PR-3-1 PR-3-2 PR-3-3 PR-3-4 PR-3-5,6,7 (TYP, 3 RISERS)

C4 PLUMBING RISER DIAGRAM - NEW SUPPLY - PHASE 3



A4 PLUMBING RISER DIAGRAM - NEW WASTE & VENT - PHASE 3

No.	Date	Description
Revision Schedule		

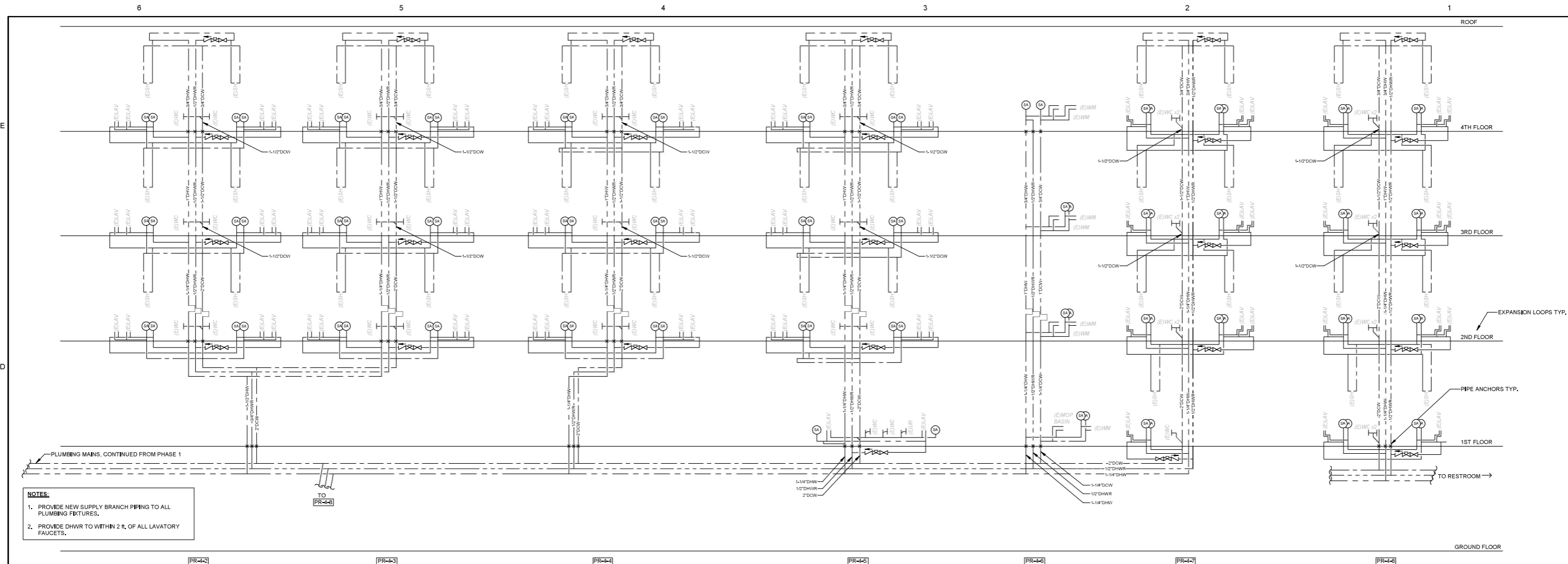
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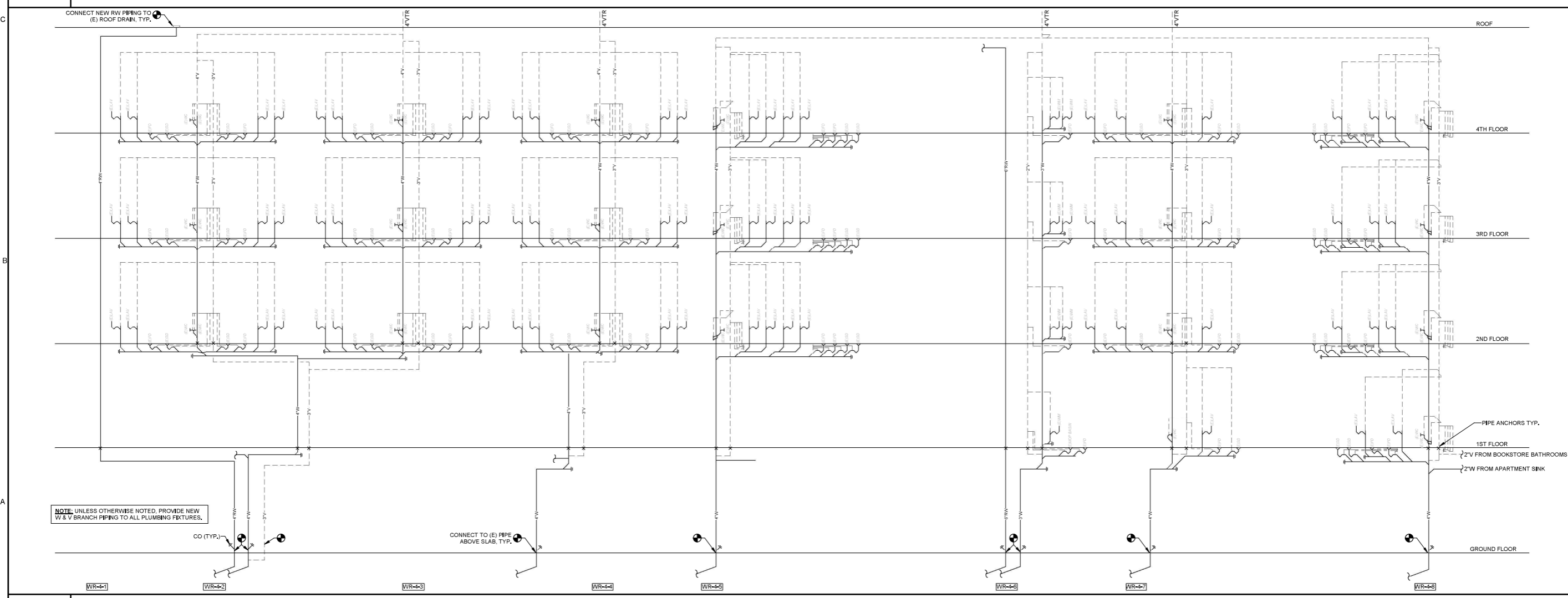
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TITLE  
PHASE 3 - PLUMBING RISER DIAGRAMS

SHEET  
P503



C4 PLUMBING RISER DIAGRAM - NEW SUPPLY - PHASE 4



A4 PLUMBING RISER DIAGRAM - NEW WASTE & VENT - PHASE 4

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TITLE  
PHASE 4 - PLUMBING  
RISER DIAGRAMS

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**P504**





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TITLE  
PLUMBING SCHEDULES

SHEET  
P600

PLUMBING PUMP SCHEDULE

TAG	SERVICE	MAKE & MODEL	TYPE	FLOW (GPM)	HEAD (FT)	CONN SIZES	ELECTRICAL			NOTES
							MOTOR HP	AMPS	V / PH / HZ	
RCP-1	DHW RECIRC PH1&4	ENOVATIVE AUTOHOT 150-SERIES	3-SPEED WET ROTOR PUMP	10	30	3/4" X 3/4"	1/8	10.0	120/1/60	1, 2
RCP-2	DHW RECIRC PH2&3	ENOVATIVE AUTOHOT 150-SERIES	3-SPEED WET ROTOR PUMP	10	30	3/4" X 3/4"	1/8	10.0	120/1/60	1, 2

NOTES:  
1. SEE SPEC SECTION 22 11 16.  
2. PROVIDE 120V, 10A RECEPTACLE FOR DC-150 PUMP CONTROLLER. RCP GRUNDFOS UPS-26-15-SF PUMP IS POWERED FROM THE CONTROLLER.

INSTANTANEOUS DHW HEATER SCHEDULE

TAG	MFR.	MODEL	GPM	TEMP RISE (DEG-F)	STEAM INLET PRESSURE (PSIG)	STEAM INLET SIZE	COND. SIZE	INTAKE	VENT	WIDTH (INCHES)	HEIGHT (INCHES)	DEPTH (INCHES)	DCV CONNECTION SIZE	DHW CONNECTION SIZE	DHW CONNECTION SIZE	NOTES
HEX-D1	ARMSTRONG	FLO-RITE TEMP FRT8120DWPR	37.0	90	15	4"	2"	---	3/4"	34	46	97				
HEX-D2	ARMSTRONG		37.0	90	15	4"	2"	---	3/4"	34	46	97	3"	3"	1"	1

NOTES:  
1. TWO HEAT EXCHANGERS TOTAL, FACTORY PIPED TOGETHER UNDER LISTED MODEL NUMBER IN SIDE-BY-SIDE CONFIGURATION.

THERMOSTATIC MIXING VALVE

TAG	SYSTEM	MFR.	MODEL	PD (PSI)	MIN GPM FLOW	PEAK GPM FLOW	INLET	OUTLET	ELECT VOLT / PH	ELECT AMPS	NOTES
TMV-1	DHW	POWERS INTELLISTATION JR	LFIS200VL-SYS200RTN	5	1.0	125	2-1/2"	2-1/2"	120/1	20 VA	1

NOTES:  
1. PRE-PIPED SYSTEM WITH BUILT-IN INLET AND OUTLET SHUTOFF VALVES.

PLUMBING FIXTURE SCHEDULE

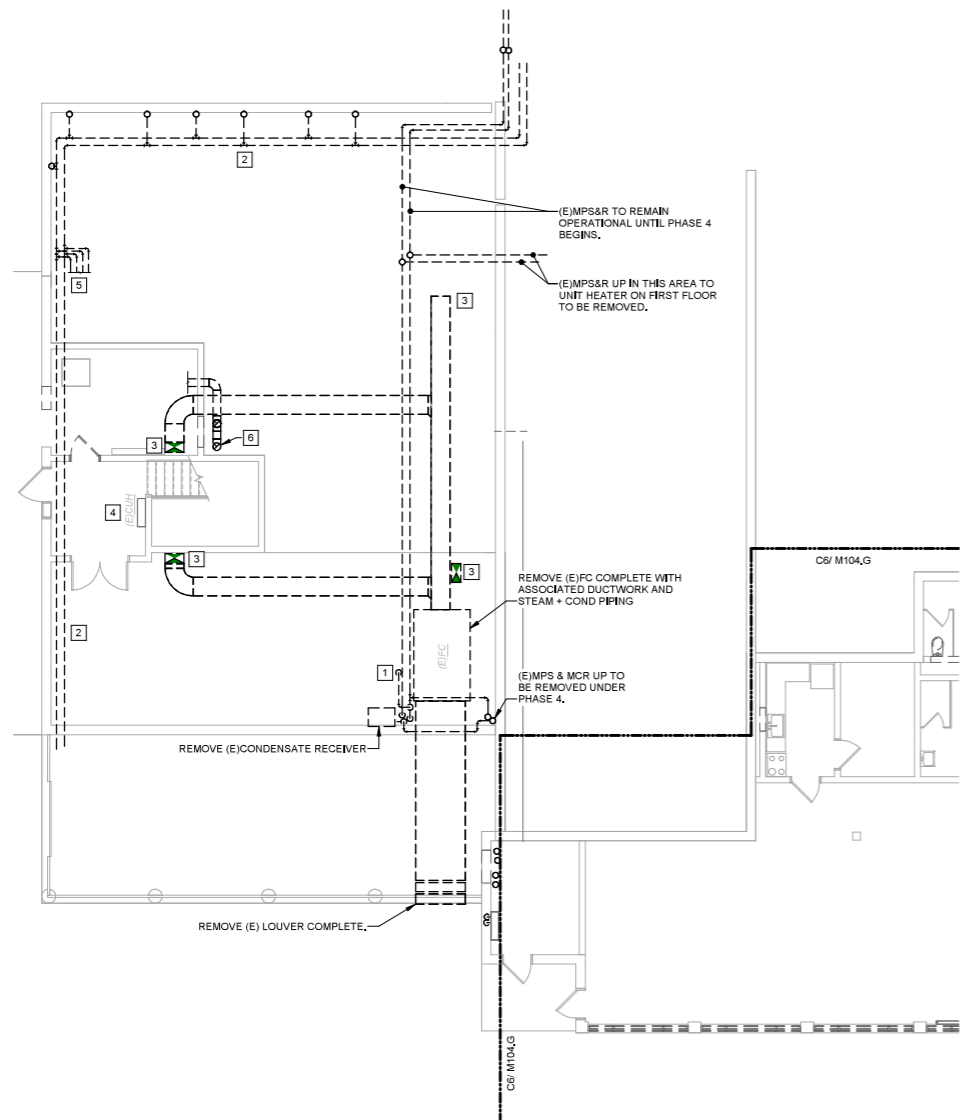
TAG	DESCRIPTION	BRANCH SIZES				NOTES
		CW	HW	VENT	WASTE	
P-1A	WATER CLOSET	1"	---	2"	3"	ADA COMPLIANT
P-2A	LAVATORY	3/8"	3/8"	1-1/2"	1-1/2"	ADA COMPLIANT
TP-1	TRAP PRIMER	1/2"	---	---	---	

EXISTING PLUMBING FIXTURE SCHEDULE (PROVIDED FOR REFERENCE, VERIFY SIZES IN FIELD)

TAG	DESCRIPTION	BRANCH SIZES				NOTES
		CW	HW	VENT	WASTE	
WC	WATER CLOSET	1"	---	2"	3"	
UR	URINAL	1"	---	2"	3"	
LAV	LAVATORY	3/8"	3/8"	1-1/2"	1-1/2"	
SH	SHOWER	1/2"	1/2"	1-1/2"	2"	
FD	URINAL	1"	---	2"	3"	
HB	HOSE BIBB	1/2"	---	---	---	
WHYD	WALL HYDRANT	3/4"	---	---	---	
FD	FLOOR DRAIN	---	---	1-1/2"	2"	

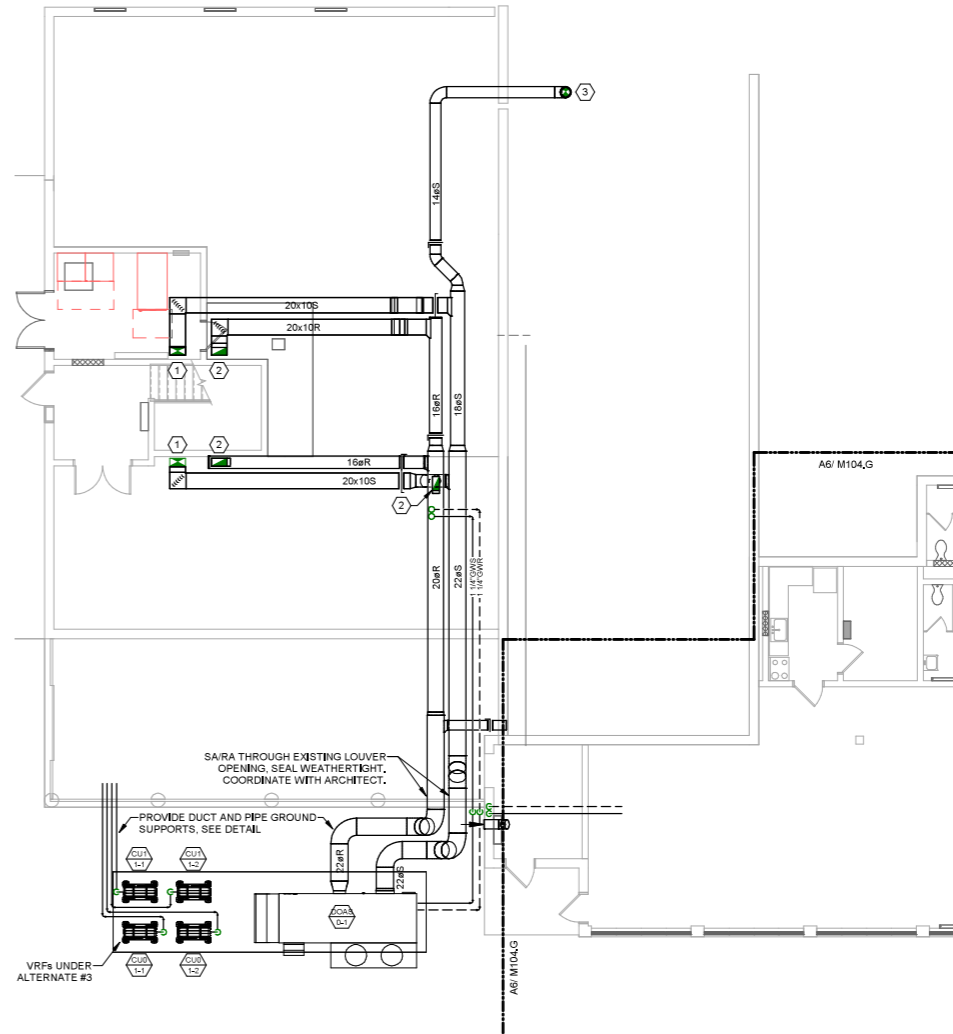
**DEMOLITION KEYED NOTES:**

- 1 PROVIDE TEMPORARY CAPS AT (E) MPS/MPR SUCH THAT MAINS CAN REMAIN IN OPERATION UNTIL PHASE 4 BEGINS.
- 2 REMOVE (E) HWS/R PIPING SERVING FIN TUBE RADIATOR ABOVE COMPLETE.
- 3 EXISTING DUCT RISER TO BE REMOVED.
- 4 EXISTING CABINET UNIT HEATER TO REMAIN, DISCONNECT AND REMOVE EXISTING HWS/R PIPING.
- 5 REMOVE (E) HWS/R BRANCHES TO PEX HEADERS ON FLOOR ABOVE.
- 6 (E) GENERATOR EXHAUST STACK UP THROUGH ROOF SHALL REMAIN FUNCTIONAL UNTIL THE NEW GENERATOR IS OPERATIONAL (PHASE 2). CONTRACTOR SHALL THEN REMOVE THE STACK IN PIECES, FROM THE BOTTOM OR TOP, COMPLETE.



**KEYED NOTES:**

- 1 NEW SUPPLY DUCT RISER UP IN EXISTING SHAFT - PROVIDE FIRE DAMPERS AT ALL SHAFT PENETRATIONS.
- 2 NEW RETURN DUCT RISER UP IN EXISTING SHAFT - PROVIDE FIRE DAMPERS AT ALL SHAFT PENETRATIONS.
- 3 14#S/R UP TO STORAGE G111 - TO BE COMPLETED IN PHASE 1.

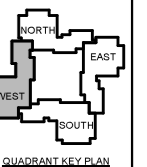
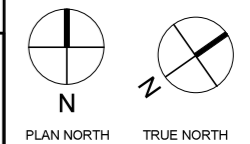


**GENERAL MECHANICAL NOTE:**

UNLESS OTHERWISE NOTED, ALL EXISTING MECHANICAL PIPING WITHIN THE BUILDING INCLUDING HWS, HWR, LPS, LPR, MPS, & MPR IS TO BE REMOVED, HWS & HWR PIPING IS TO BE REPLACED WITH NEW. REFER TO DEMOLITION PLANS FOR APPROXIMATE PIPING LAYOUT, EXISTING HOT WATER EQUIPMENT SHALL REMAIN FOR REUSE, EXCEPT WHERE NOTED FOR REPLACEMENT, PROVIDE NEW CONTROL VALVES AND CONNECT NEW PIPING TO EXISTING EQUIPMENT.

**GENERAL PHASING NOTE:**

THIS PROJECT IS SCHEDULED TO BE COMPLETED IN MULTIPLE PHASES, THE OWNER WILL OCCUPY ALL PORTIONS OF THE BUILDING THAT ARE NOT ACTIVELY UNDER CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SERVICES TO ALL PARTS OF THE BUILDING NOT ACTIVELY UNDER CONSTRUCTION, SEE A2/ MEP000 FOR AN EXAMPLE STRATEGY TO MAINTAIN SERVICE TO OCCUPIED AREAS, INTERRUPTIONS IN SERVICE TO OCCUPIED AREAS SHALL BE KEPT TO A MINIMUM AND SHALL BE STRICTLY COORDINATED WITH MAINE MARITIME ACADEMY. SEE SHEET MEP000 FOR ADDITIONAL INFORMATION AND PHASING NOTES.



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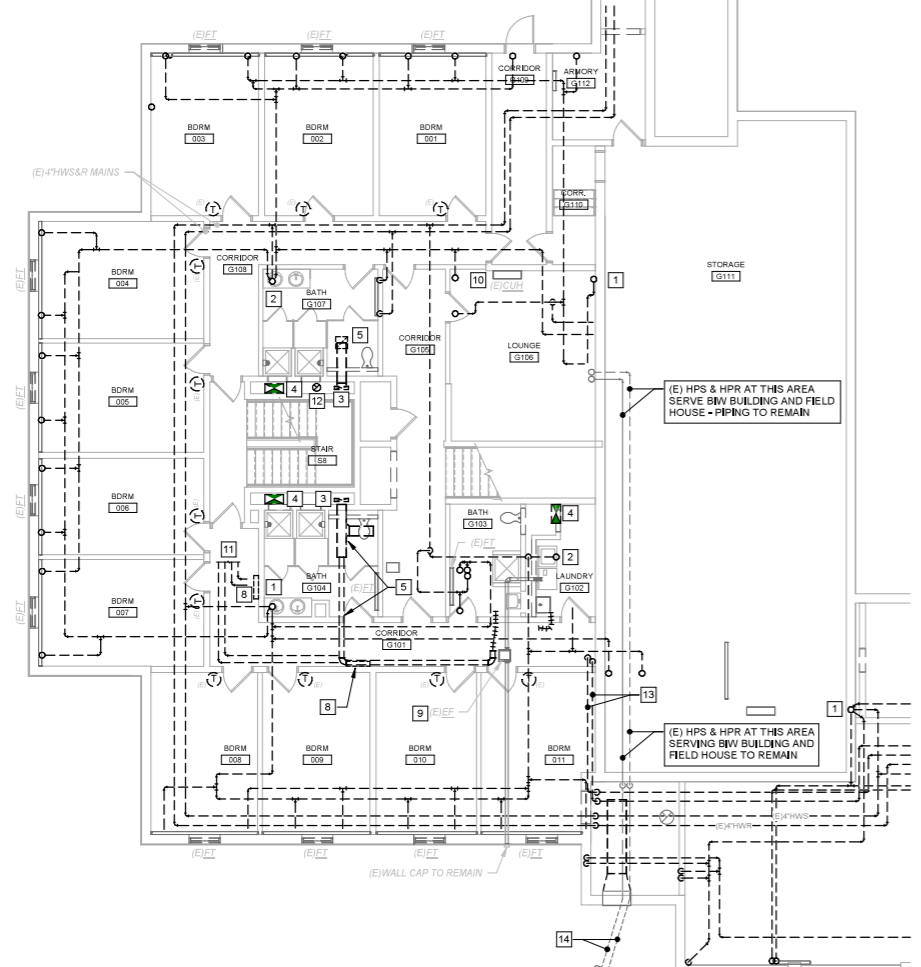
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TITLE  
PHASE 1 GROUND FLOOR MECHANICAL PLANS

SHEET  
**M101.G**

DEMOLITION KEYED NOTES:

- 1 REMOVE (E) HWS RISER
- 2 REMOVE (E) HWR RISER,
- 3 REMOVE (E) EXHAUST DUCT RISER,
- 4 REMOVE (E) SUPPLY DUCT RISER,
- 5 REMOVE (E) EXHAUST DUCTWORK AND GRILLE(S).
- 6 PIPING AT ELECTRICAL ROOM - COORDINATE WORK WITH ELECTRICAL.
- 7 PIPING BELOW EXTERIOR STAIR - COORDINATE EXCAVATION WITH STRUCTURAL.
- 8 EXISTING HWS MANIFOLD SERVING (E) FINITUBE THIS FLOOR - REMOVE COMPLETE INCLUDING PIPING RUNOUTS AND ZONE CONTROL VALVES.
- 9 EXISTING 4"Ø DRYER EXHAUST AND BOOSTER FAN TO REMAIN.
- 10 EXISTING CABINET UNIT HEATER TO REMAIN, DISCONNECT AND REMOVE EXISTING HWS/R PIPING.
- 11 REMOVE EXISTING HWS/R BRANCHES TO PEX HEADERS (FROM FLOOR BELOW).
- 12 (E) GENERATOR EXHAUST STACK UP THROUGH ROOF SHALL REMAIN FUNCTIONAL UNTIL THE NEW GENERATOR IS OPERATIONAL (PHASE 2). CONTRACTOR SHALL THEN REMOVE THE STACK IN PIECES, FROM THE BOTTOM OR TOP, COMPLETE.
- 13 (E) MPS/R SERVING BOOKSTORE AIR HANDLER TO BE REMOVED UNDER PHASE 4, MUST REMAIN OPERATIONAL DURING PHASES 1-3.
- 14 (E) UNDERGROUNDS HPS/R SERVING THE FIELD HOUSE AND BW TO REMAIN IN SERVICE THROUGHOUT AND AFTER CONSTRUCTION.

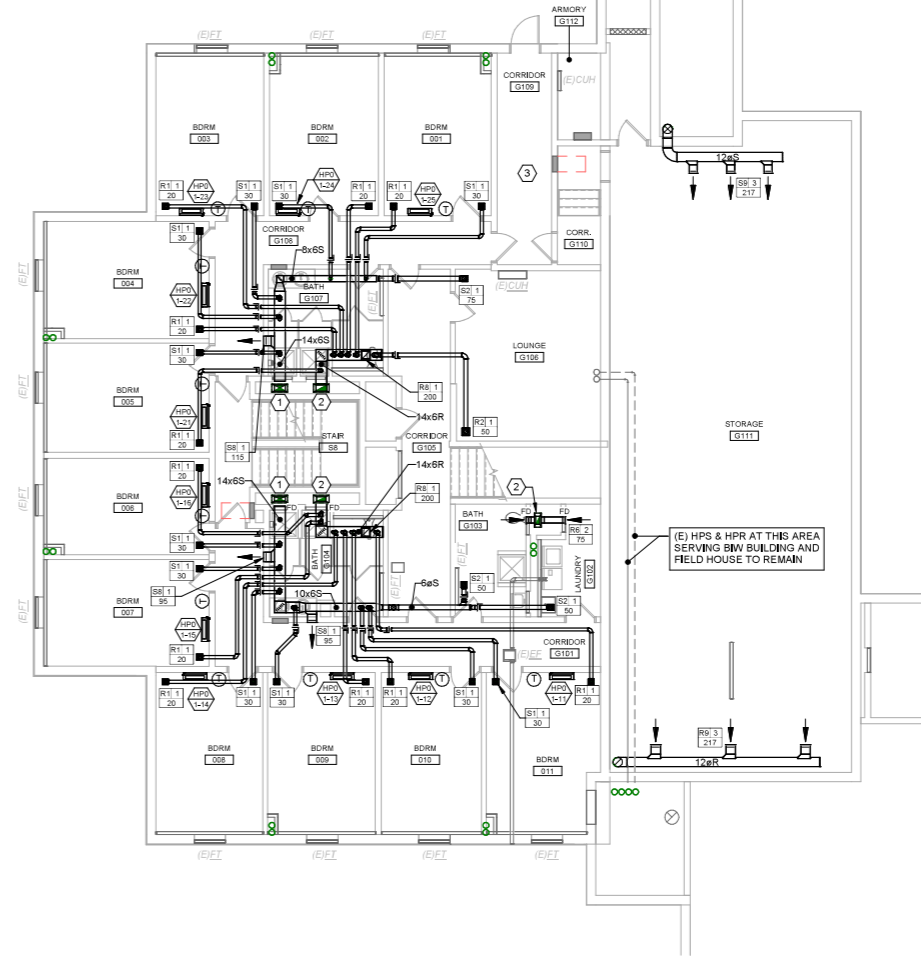


(E) HPS & HPR AT THIS AREA SERVE BW BUILDING AND FIELD HOUSE - PIPING TO REMAIN

(E) HPS & HPR AT THIS AREA SERVING BW BUILDING AND FIELD HOUSE TO REMAIN

KEYED NOTES:

- 1 NEW SUPPLY DUCT RISER IN EXISTING SHAFT FROM DOAS UNIT ON GRADE - PROVIDE FIRE DAMPERS AT ALL SHAFT PENETRATIONS.
- 2 NEW EXHAUST DUCT RISER IN EXISTING SHAFT FROM DOAS UNIT ON GRADE - PROVIDE FIRE DAMPERS AT ALL SHAFT PENETRATIONS.
- 3 NEW HWS AND HWR MAINS FROM BOILER ROOM, RUN AT CEILING - FOLLOW ROUTE OF EXISTING.
- 4 NEW PIPING RUN THROUGH ELECTRICAL ROOM - COORDINATE WORK WITH ELECTRICAL.
- 5 NEW PIPING RUN BELOW EXTERIOR STAIR - COORDINATE EXCAVATION WITH STRUCTURAL.



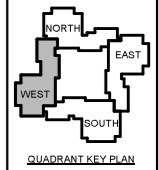
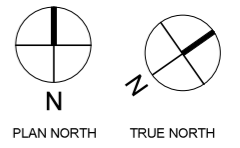
(E) HPS & HPR AT THIS AREA SERVING BW BUILDING AND FIELD HOUSE TO REMAIN

GENERAL MECHANICAL NOTE:

UNLESS OTHERWISE NOTED, ALL EXISTING MECHANICAL PIPING WITHIN THE BUILDING INCLUDING HWS, HWR, LPS, LPR, MPS, & MPR IS TO BE REMOVED. HWS & HWR PIPING IS TO BE REPLACED WITH NEW. REFER TO DEMOLITION PLANS FOR APPROXIMATE PIPING LAYOUT. EXISTING HOT WATER EQUIPMENT SHALL REMAIN FOR RE-USE, EXCEPT WHERE NOTED FOR REPLACEMENT. PROVIDE NEW CONTROL VALVES AND CONNECT NEW PIPING TO EXISTING EQUIPMENT.

GENERAL PHASING NOTE:

THIS PROJECT IS SCHEDULED TO BE COMPLETED IN MULTIPLE PHASES. THE OWNER WILL OCCUPY ALL PORTIONS OF THE BUILDING THAT ARE NOT ACTIVELY UNDER CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SERVICES TO ALL PARTS OF THE BUILDING NOT ACTIVELY UNDER CONSTRUCTION. SEE A2/MEP000 FOR AN EXAMPLE STRATEGY TO MAINTAIN SERVICE TO OCCUPIED AREAS. INTERRUPTIONS IN SERVICE TO OCCUPIED AREAS SHALL BE KEPT TO A MINIMUM AND SHALL BE STRICTLY COORDINATED WITH MAINE MARITIME ACADEMY. SEE SHEET MEP000 FOR ADDITIONAL INFORMATION AND PHASING NOTES.



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PHASE 1 INTERMEDIATE FLOOR MECHANICAL PLANS

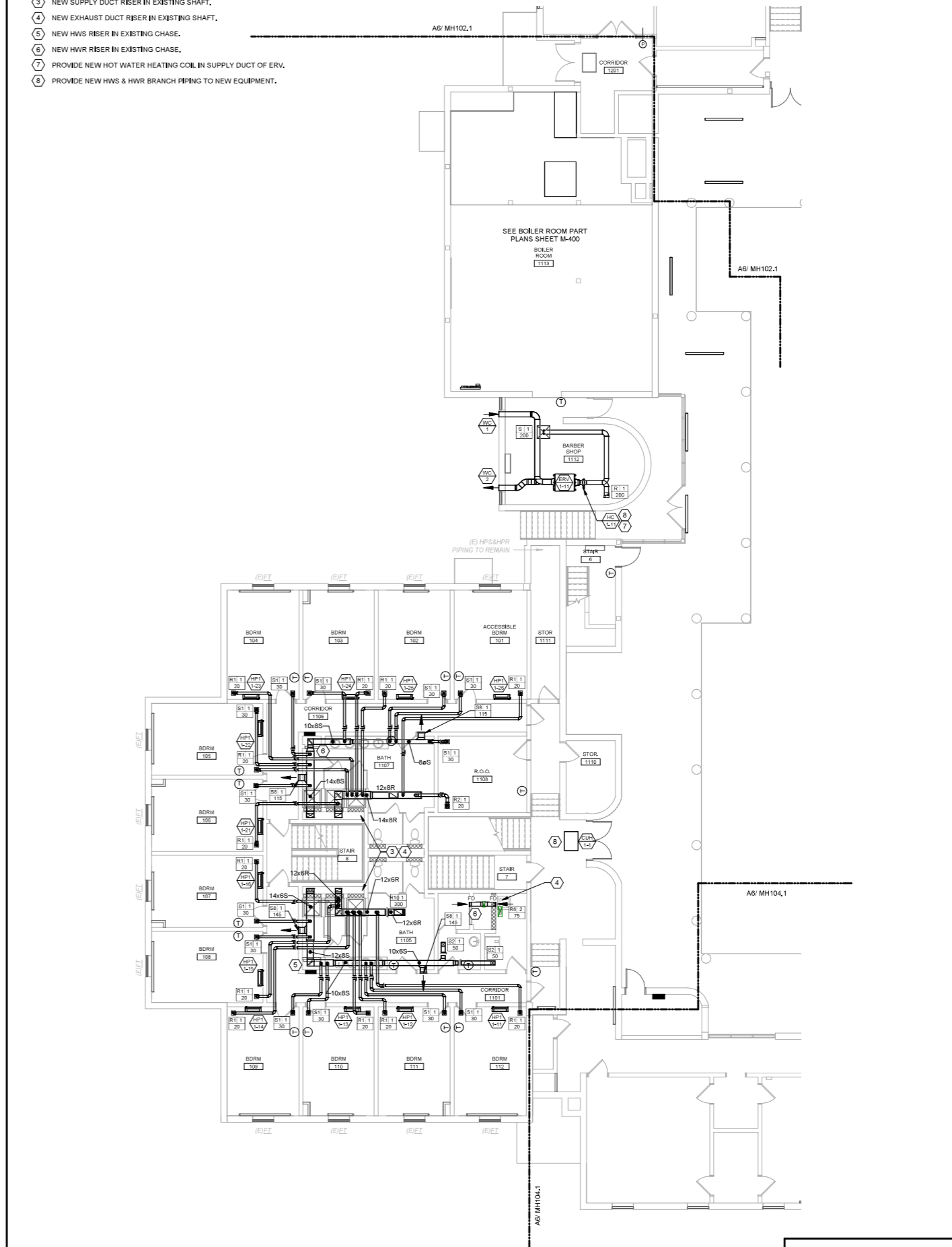
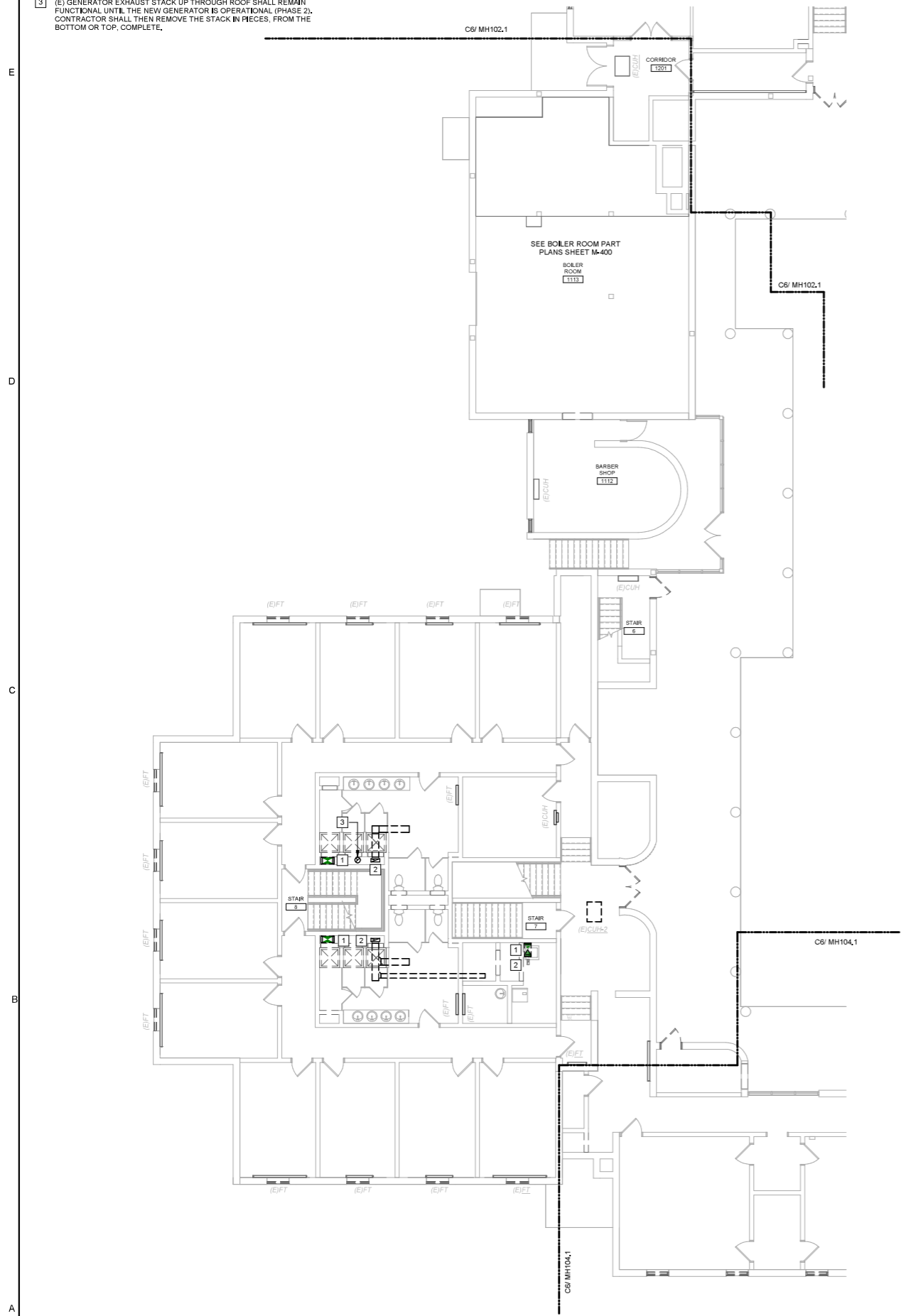
SHEET  
**M101.0**

**DEMOLITION KEYED NOTES:**

- 1 EXISTING SUPPLY DUCT RISER IN CHASE TO BE REMOVED.
- 2 EXISTING EXHAUST DUCT RISER IN CHASE TO BE REMOVED.
- 3 (E) GENERATOR EXHAUST STACK UP THROUGH ROOF SHALL REMAIN FUNCTIONAL UNTIL THE NEW GENERATOR IS OPERATIONAL (PHASE 2). CONTRACTOR SHALL THEN REMOVE THE STACK IN PIECES, FROM THE BOTTOM OR TOP, COMPLETE.

**KEYED NOTES:**

- 1 NEW GRILLE IN SOFFIT.
- 2 NEW SIDEWALL LOUVER.
- 3 NEW SUPPLY DUCT RISER IN EXISTING SHAFT.
- 4 NEW EXHAUST DUCT RISER IN EXISTING SHAFT.
- 5 NEW HWS RISER IN EXISTING CHASE.
- 6 NEW HWR RISER IN EXISTING CHASE.
- 7 PROVIDE NEW HOT WATER HEATING COIL IN SUPPLY DUCT OF ERV.
- 8 PROVIDE NEW HWS & HWR BRANCH PIPING TO NEW EQUIPMENT.

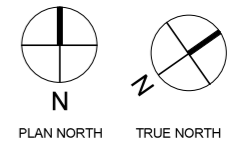


**GENERAL MECHANICAL NOTE:**

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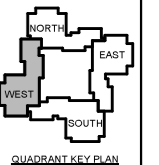
A6 PHASE 1 FIRST FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN

A3 PHASE 1 FIRST FLOOR MECHANICAL DUCTWORK PLAN

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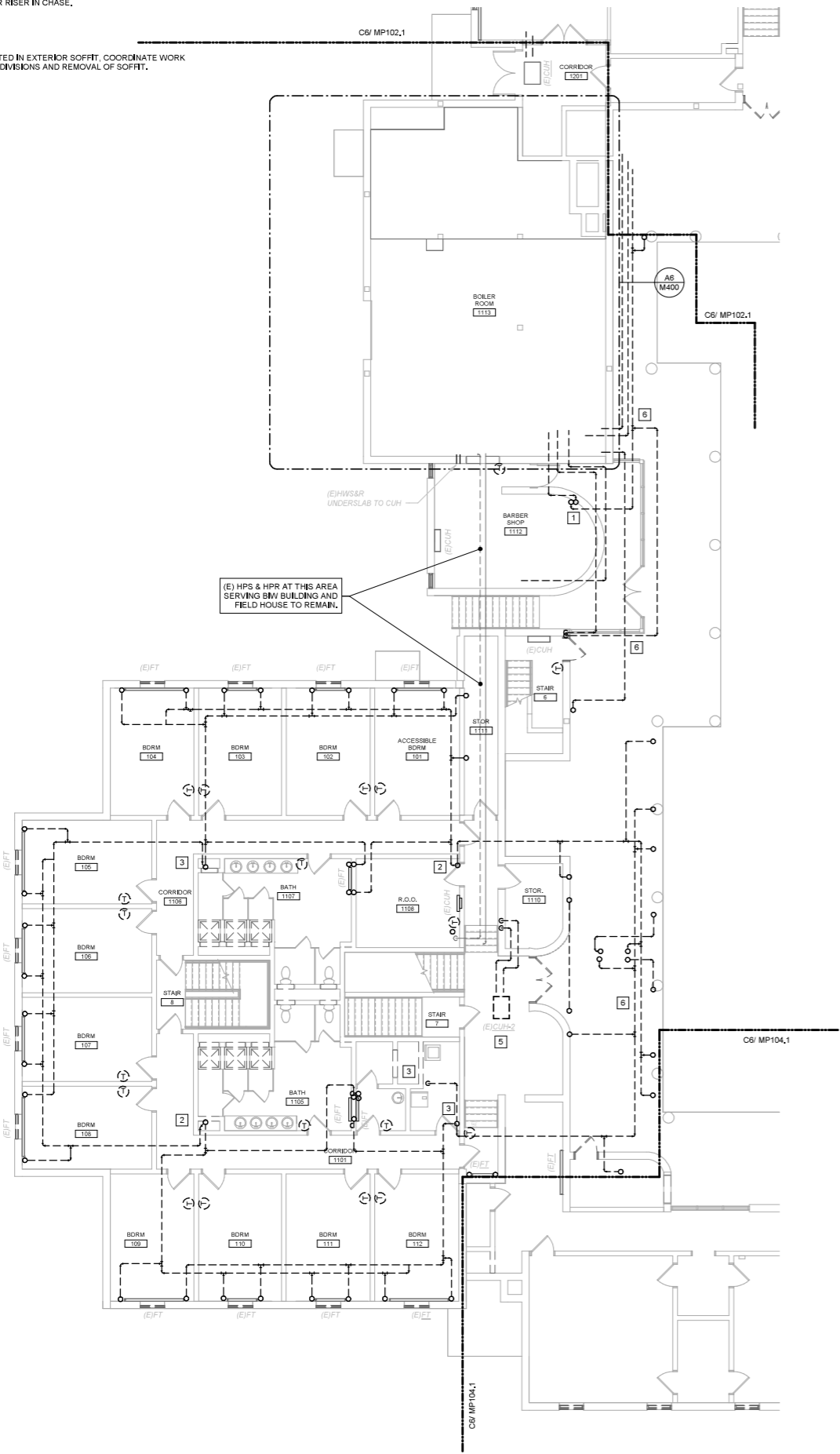
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 PHASE 1 FIRST FLOOR MECHANICAL DUCTWORK PLANS

SHEET  
**MH101.1**



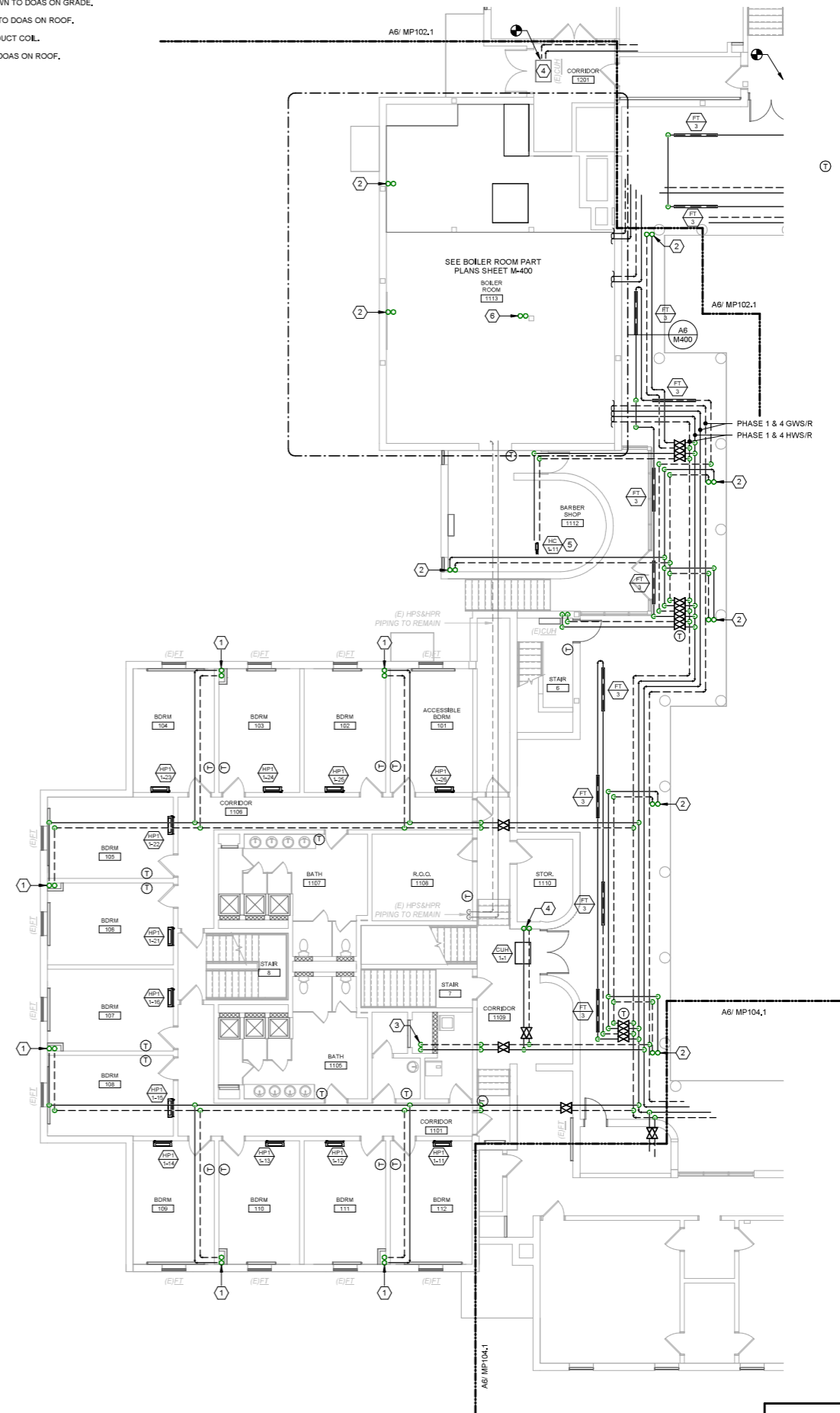
**DEMOLITION KEYED NOTES:**

- 1 REMOVE (E) HWS/HWR PIPING SERVING (E) FIN TUBE.
- 2 REMOVE EXISTING HWS RISER IN CHASE.
- 3 REMOVE EXISTING HWR RISER IN CHASE.
- 4 REMOVE (E) FIN TUBE.
- 5 REMOVE (E) CUH / UH.
- 6 EXISTING PIPING LOCATED IN EXTERIOR SOFFIT, COORDINATE WORK WITH ARCHITECTURAL DIVISIONS AND REMOVAL OF SOFFIT.



**KEYED NOTES:**

- 1 1" HWS/R U.I.C. AND 3/4" HWS/R D.I.C.
- 2 1" HWS/R U.I.C.
- 3 1-1/4" GWS/R DOWN TO DOAS ON GRADE.
- 4 1-1/2" GWS/R UP TO DOAS ON ROOF.
- 5 GWS/R TO ERV DUCT COIL.
- 6 1" GWS/R UP TO DOAS ON ROOF.

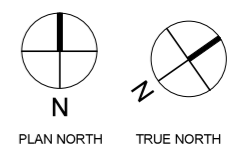


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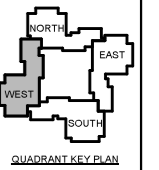


A6 FIRST FLOOR MECHANICAL PIPING DEMOLITION PLAN  
1/8" = 1'-0"

A3 FIRST FLOOR MECHANICAL PIPING PLAN  
1/8" = 1'-0"

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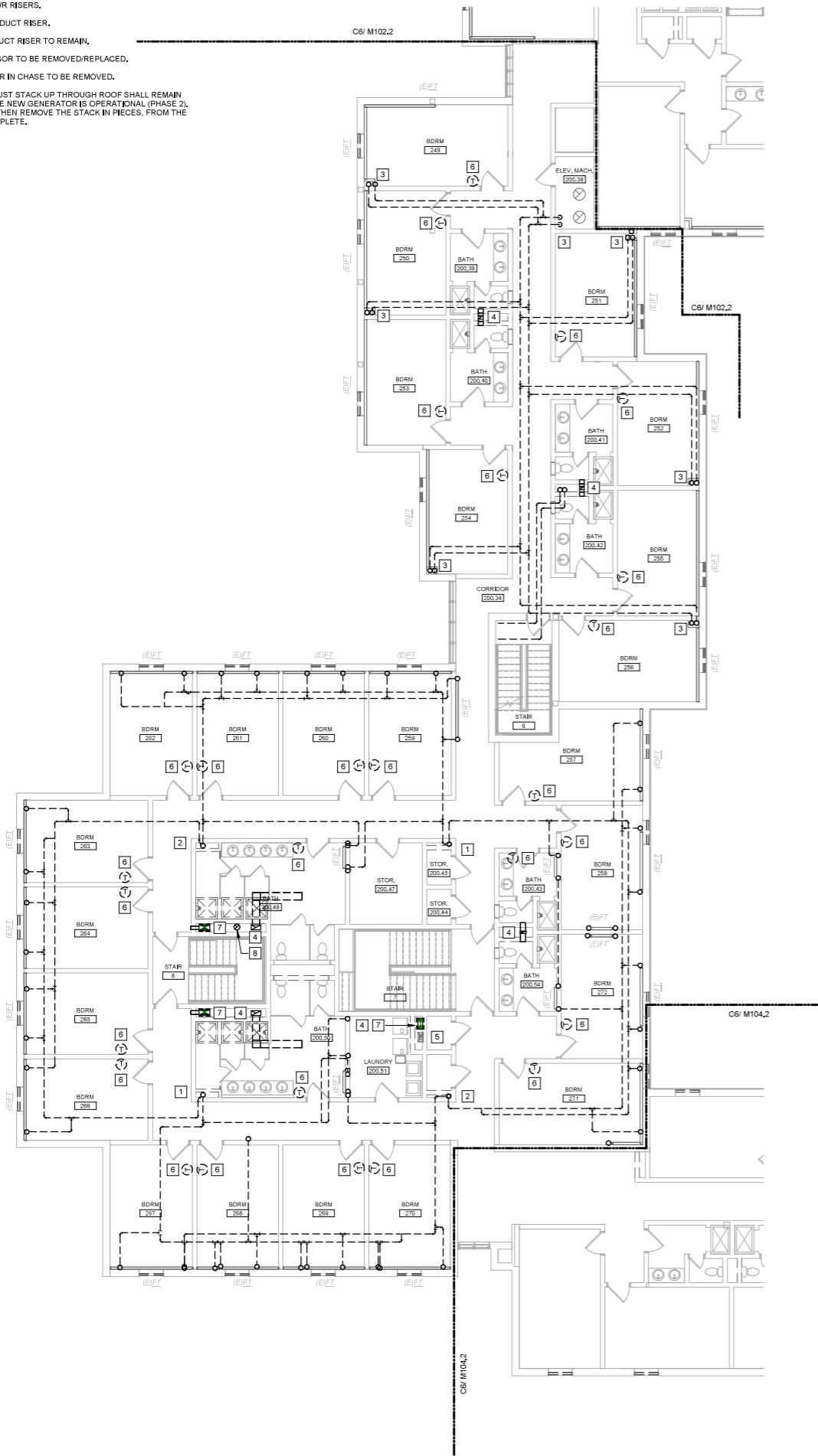
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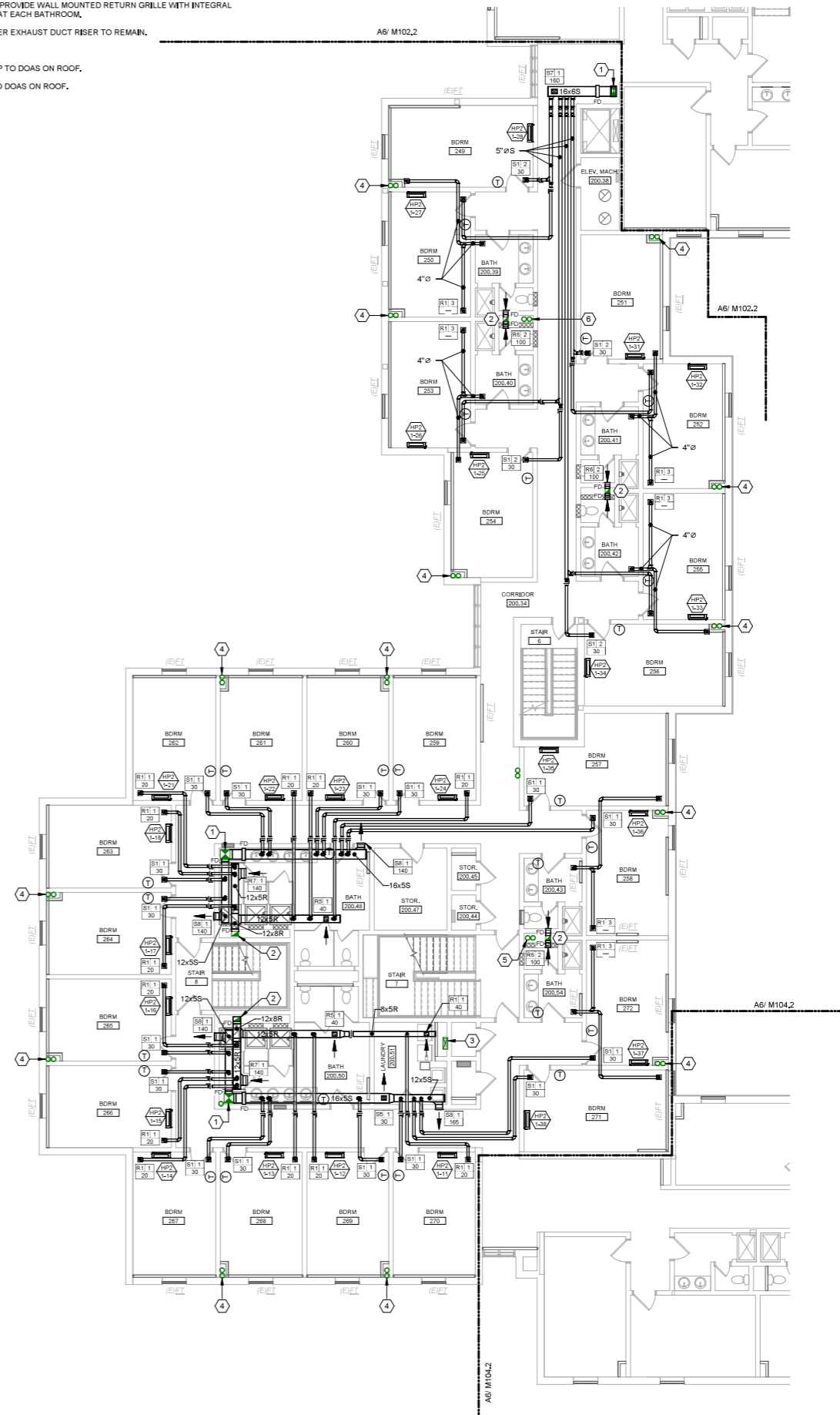
**DEMOLITION KEYED NOTES:**

- 1 REMOVE (E) HWS RISER
- 2 REMOVE (E) HWR RISER,
- 3 REMOVE (E) HWS & HWR RISERS,
- 4 REMOVE (E) EXHAUST DUCT RISER,
- 5 (E) DRYER EXHAUST DUCT RISER TO REMAIN,
- 6 (E) THERMOSTAT/SENSOR TO BE REMOVED/REPLACED,
- 7 (E) SUPPLY DUCT RISER IN CHASE TO BE REMOVED,
- 8 (E) GENERATOR EXHAUST STACK UP THROUGH ROOF SHALL REMAIN FUNCTIONAL UNTIL THE NEW GENERATOR IS OPERATIONAL (PHASE 2). CONTRACTOR SHALL THEN REMOVE THE STACK IN PIECES, FROM THE BOTTOM OR TOP, COMPLETE.



**KEYED NOTES:**

- 1 SUPPLY DUCT RISER FROM DOAS UNIT ON ROOF, PROVIDE FIRE DAMPER AT PENETRATIONS THROUGH SHAFT,
- 2 RETURN DUCT RISER IN EXISTING SHAFT TO SERVE ADJACENT BATHROOMS - PROVIDE WALL MOUNTED RETURN GRILLE WITH INTEGRAL FIRE DAMPER AT EACH BATHROOM,
- 3 EXISTING DRYER EXHAUST DUCT RISER TO REMAIN,
- 4 1"HWS/R U.I.C.
- 5 1-1/2"GWS/R UP TO DOAS ON ROOF,
- 6 1"GWS/R UP TO DOAS ON ROOF,

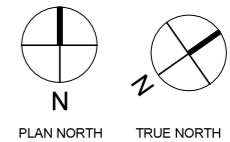


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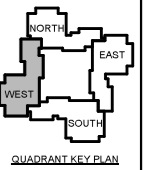
A6 PHASE 1 SECOND FLOOR MECHANICAL DEMOLITION PLAN

A3 PHASE 1 SECOND FLOOR MECHANICAL PLAN



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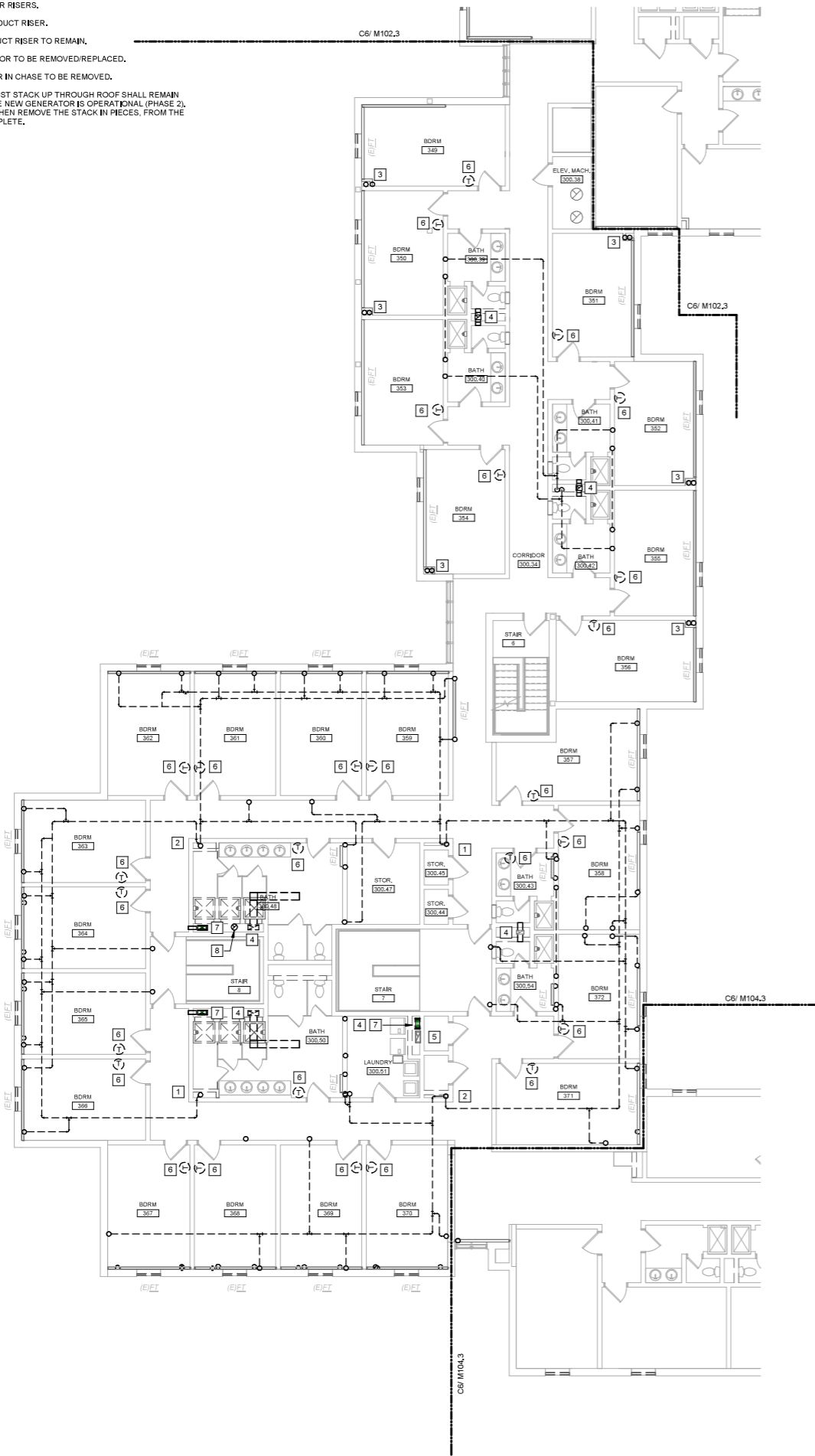
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PHASE 1 SECOND FLOOR MECHANICAL PLANS

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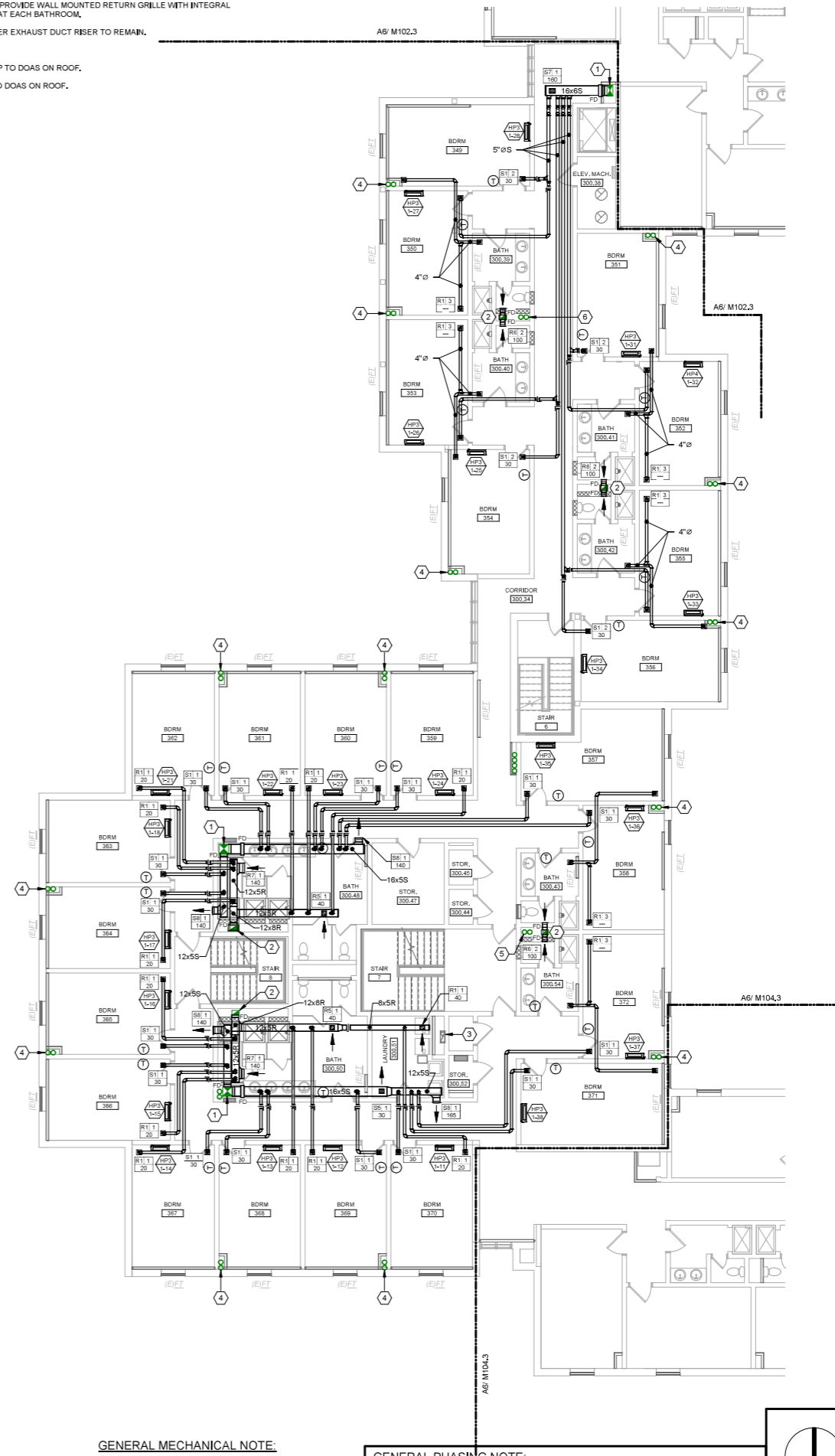
**DEMOLITION KEYED NOTES:**

- 1 REMOVE (E) HWS RISER
- 2 REMOVE (E) HWR RISER.
- 3 REMOVE (E) HWS & HWR RISERS.
- 4 REMOVE (E) EXHAUST DUCT RISER.
- 5 (E) DRYER EXHAUST DUCT RISER TO REMAIN.
- 6 (E) THERMOSTAT/SENSOR TO BE REMOVED/REPLACED.
- 7 (E) SUPPLY DUCT RISER IN CHASE TO BE REMOVED.
- 8 (E) GENERATOR EXHAUST STACK UP THROUGH ROOF SHALL REMAIN FUNCTIONAL UNTIL THE NEW GENERATOR IS OPERATIONAL (PHASE 2). CONTRACTOR SHALL THEN REMOVE THE STACK IN PIECES, FROM THE BOTTOM OR TOP, COMPLETE.



**KEYED NOTES:**

- 1 SUPPLY DUCT RISER FROM DOAS UNIT ON ROOF, PROVIDE FIRE DAMPER AT PENETRATIONS THROUGH SHAFT.
- 2 RETURN DUCT RISER IN EXISTING SHAFT TO SERVE ADJACENT BATHROOMS - PROVIDE WALL MOUNTED RETURN GRILLE WITH INTEGRAL FIRE DAMPER AT EACH BATHROOM.
- 3 EXISTING DRYER EXHAUST DUCT RISER TO REMAIN.
- 4 1"HWS/R U.I.C.
- 5 1-1/2"GWS/R UP TO DOAS ON ROOF.
- 6 1"GWS/R UP TO DOAS ON ROOF.

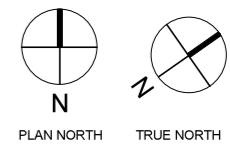


**GENERAL MECHANICAL NOTE:**

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A6 PHASE 1 THIRD FLOOR MECHANICAL DEMOLITION PLAN

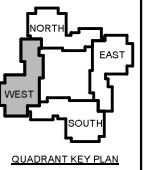
A3 PHASE 1 THIRD FLOOR MECHANICAL PLAN



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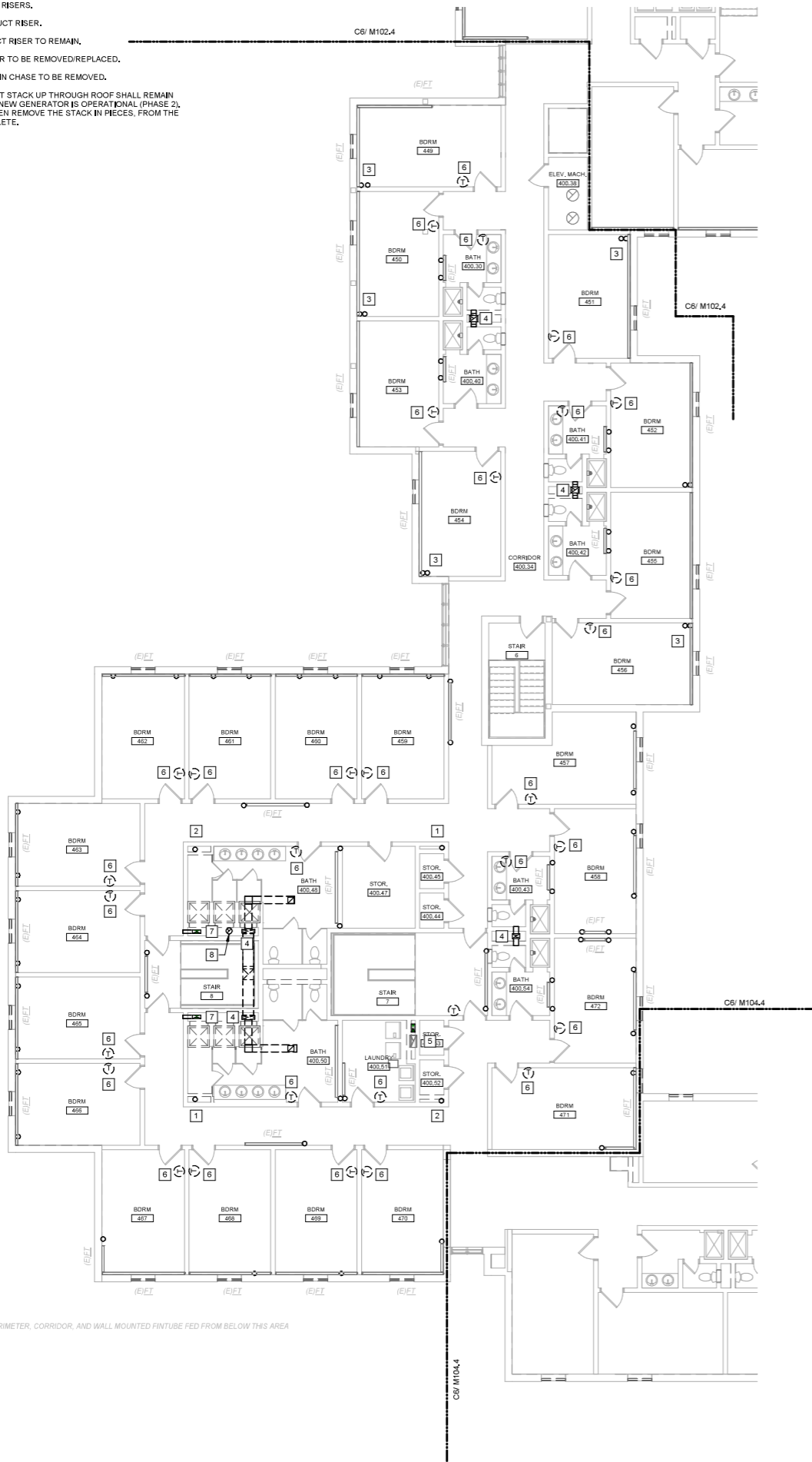
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PHASE 1 THIRD FLOOR MECHANICAL PLANS

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**M101.3**

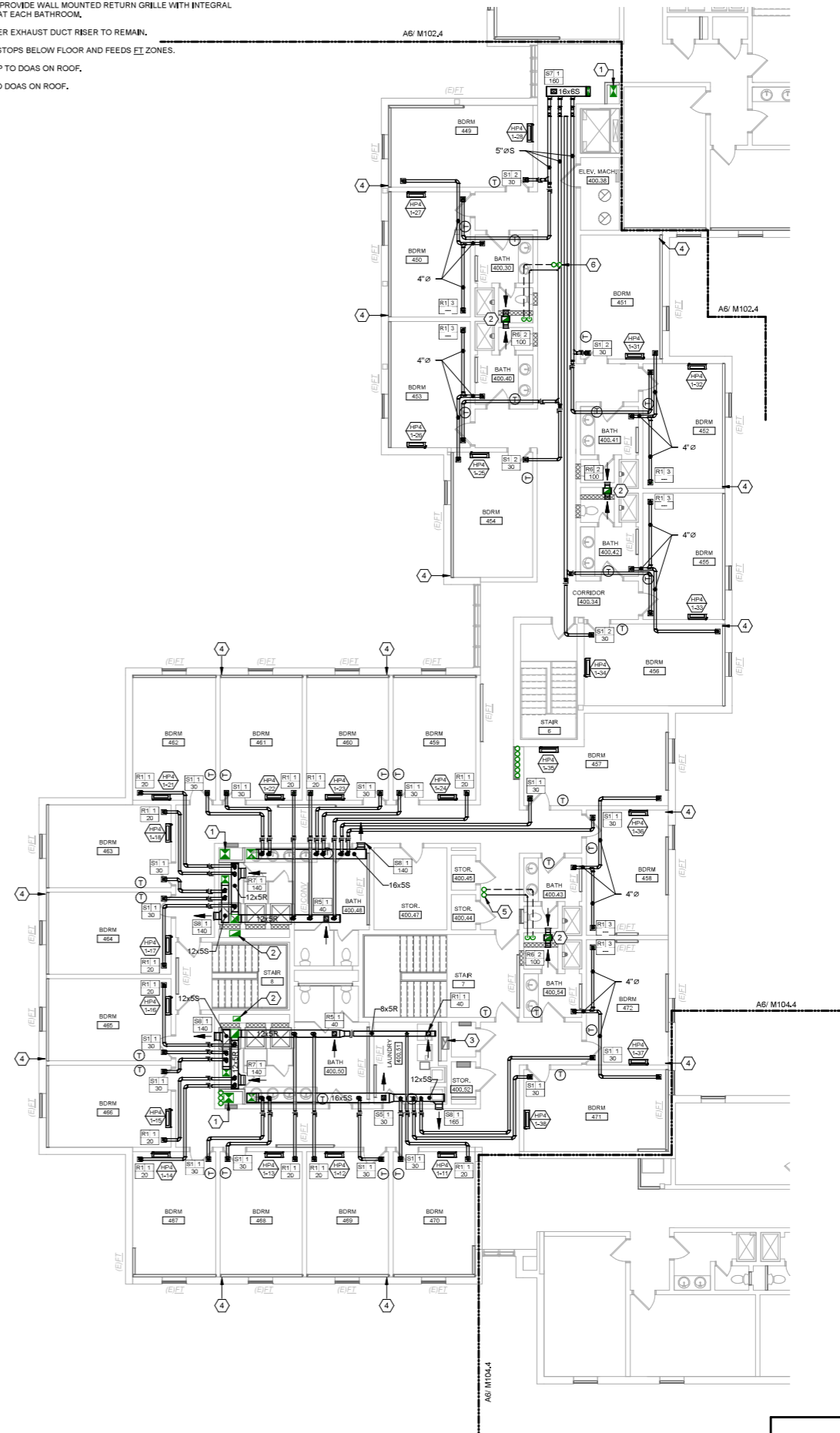
**DEMOLITION KEYED NOTES:**

- 1 REMOVE (E) HWS RISER
- 2 REMOVE (E) HWR RISER.
- 3 REMOVE (E) HWS & HWR RISERS.
- 4 REMOVE (E) EXHAUST DUCT RISER.
- 5 (E) DRYER EXHAUST DUCT RISER TO REMAIN.
- 6 (E) THERMOSTAT/SENSOR TO BE REMOVED/REPLACED.
- 7 (E) SUPPLY DUCT RISER IN CHASE TO BE REMOVED.
- 8 (E) GENERATOR EXHAUST STACK UP THROUGH ROOF SHALL REMAIN FUNCTIONAL UNTIL THE NEW GENERATOR IS OPERATIONAL (PHASE 2). CONTRACTOR SHALL THEN REMOVE THE STACK IN PIECES, FROM THE BOTTOM OR TOP, COMPLETE.



**KEYED NOTES:**

- 1 SUPPLY DUCT RISER FROM DOAS UNIT ON ROOF, PROVIDE FIRE DAMPER AT PENETRATIONS THROUGH SHAFT.
- 2 RETURN DUCT RISER IN EXISTING SHAFT TO SERVE ADJACENT BATHROOMS - PROVIDE WALL MOUNTED RETURN GRILLE WITH INTEGRAL FIRE DAMPER AT EACH BATHROOM.
- 3 EXISTING DRYER EXHAUST DUCT RISER TO REMAIN.
- 4 HWS/R RISER STOPS BELOW FLOOR AND FEEDS ET ZONES.
- 5 1-1/2" GWS/R UP TO DOAS ON ROOF.
- 6 1" GWS/R UP TO DOAS ON ROOF.

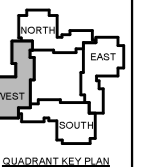
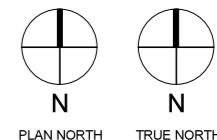


**GENERAL MECHANICAL NOTE:**

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PHASE 1 FOURTH FLOOR MECHANICAL PLANS

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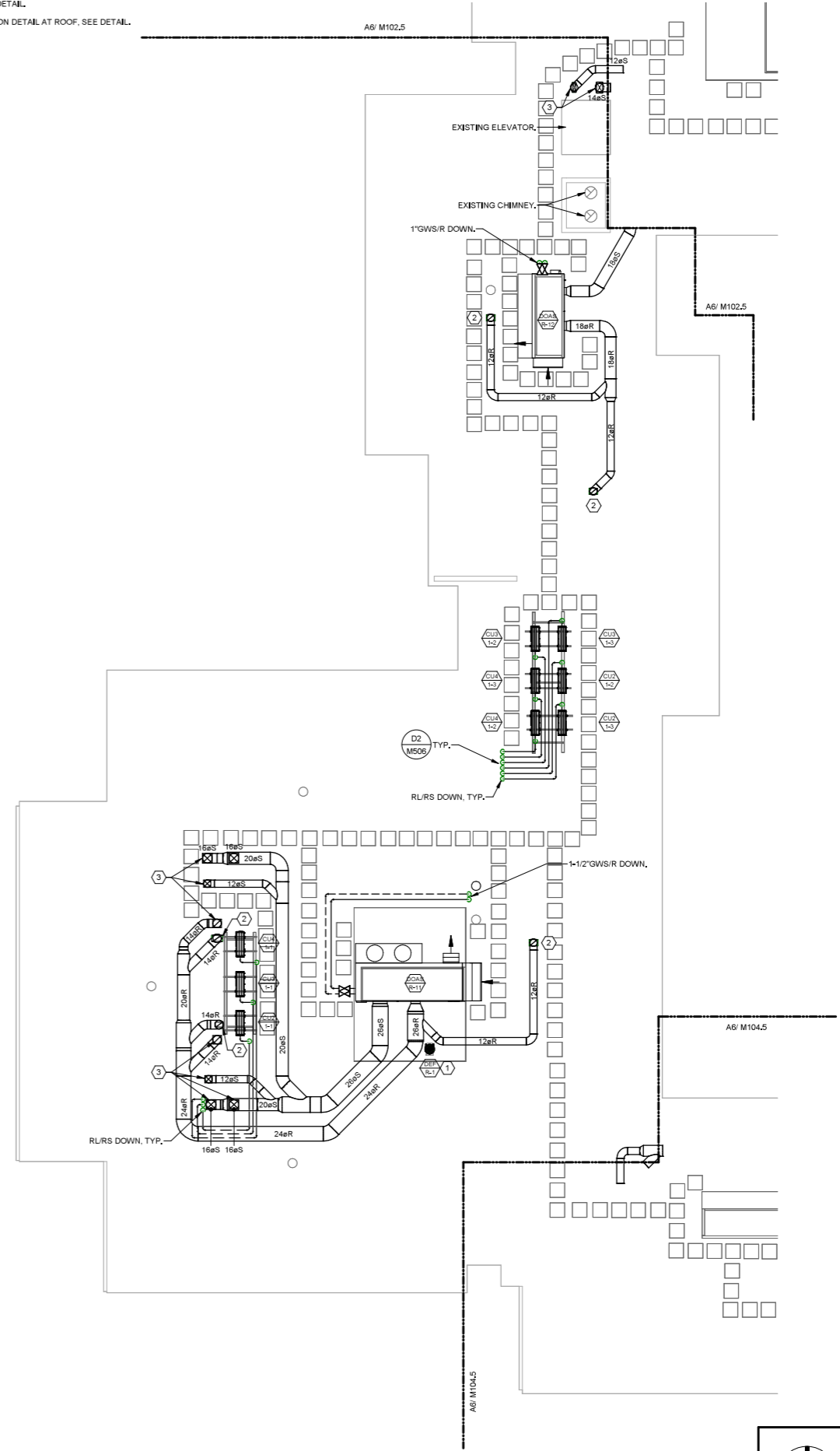


DEMOLITION KEYED NOTES:

- 1 EXISTING DRYER EXHAUST FAN TO BE REPLACED.
- 2 REMOVE EXISTING EXHAUST FAN.
- 3 (E) GENERATOR EXHAUST STACK UP THROUGH ROOF SHALL REMAIN FUNCTIONAL UNTIL THE NEW GENERATOR IS OPERATIONAL (PHASE 2). CONTRACTOR SHALL THEN REMOVE THE STACK IN PIECES, FROM THE BOTTOM OR TOP, COMPLETE PATCH (E) ROOF OPENING AND SEAL WEATHERTIGHT.



- 1 EXISTING DRYER EXHAUST FAN TO BE REPLACED W/ VARIABLE FLOW FAN.
- 2 RETURN DUCT TO DROP THROUGH EXISTING FAN CURB, CAP AND SEAL WEATHERTIGHT, SEE DETAIL.
- 3 FOR DUCT PENETRATION DETAIL AT ROOF, SEE DETAIL.

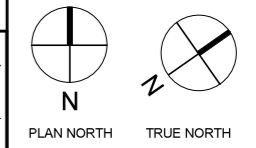


GENERAL MECHANICAL NOTE:

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GENERAL PHASING NOTE:

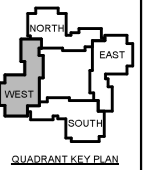
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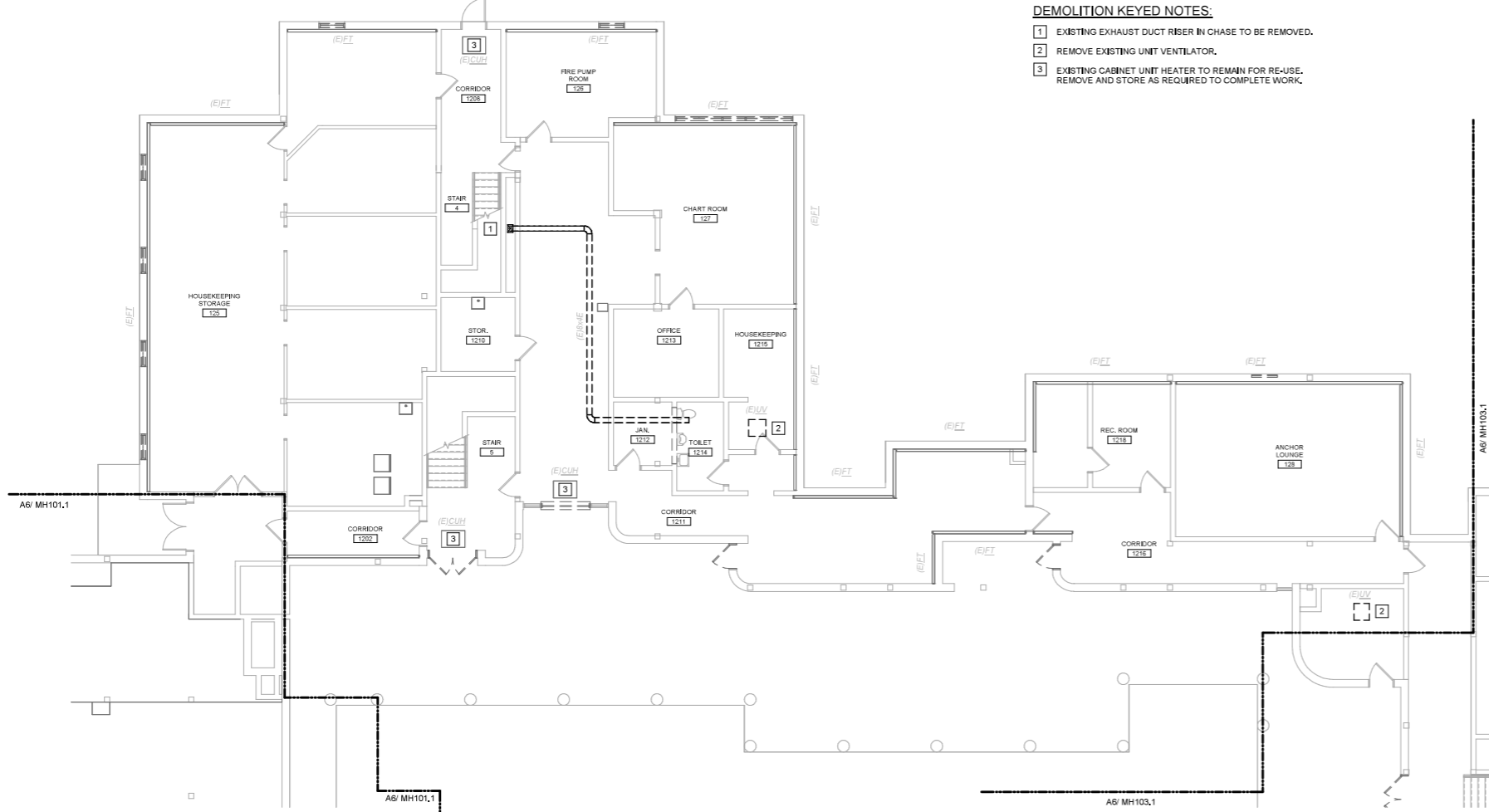
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PHASE 1 ROOF LEVEL MECHANICAL PLANS

SHEET  
**M101.5**

E

D

C6



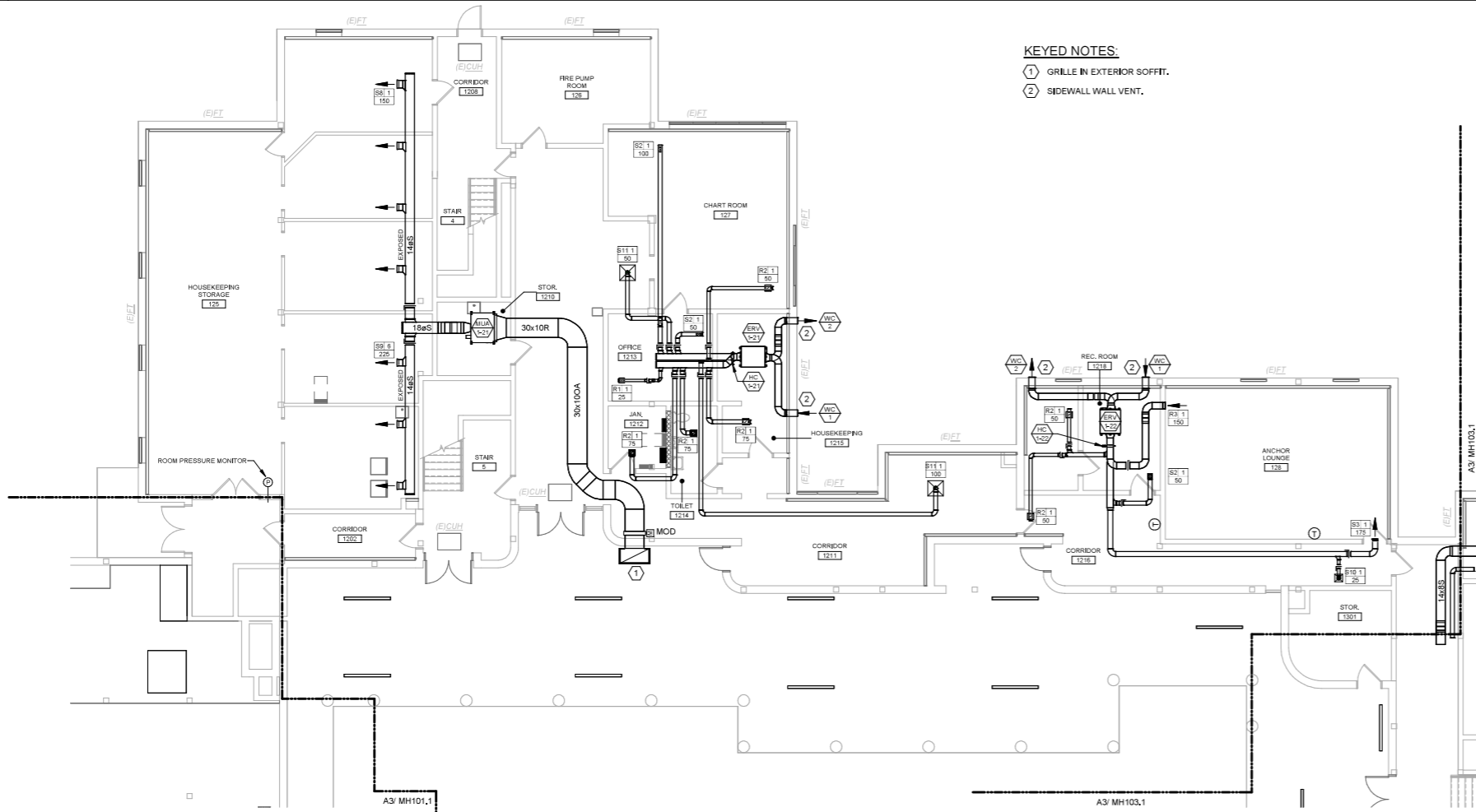
- DEMOLITION KEYED NOTES:**
- 1 EXISTING EXHAUST DUCT RISER IN CHASE TO BE REMOVED.
  - 2 REMOVE EXISTING UNIT VENTILATOR.
  - 3 EXISTING CABINET UNIT HEATER TO REMAIN FOR RE-USE. REMOVE AND STORE AS REQUIRED TO COMPLETE WORK.

PHASE 2 FIRST FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN

B

A

A6



- KEYED NOTES:**
- 1 GRILLE IN EXTERIOR SOFFIT.
  - 2 SIDEWALL WALL VENT.

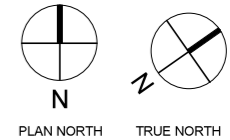
PHASE 2 FIRST FLOOR MECHANICAL DUCTWORK PLAN

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**GENERAL PHASING NOTE:**

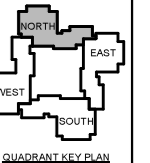
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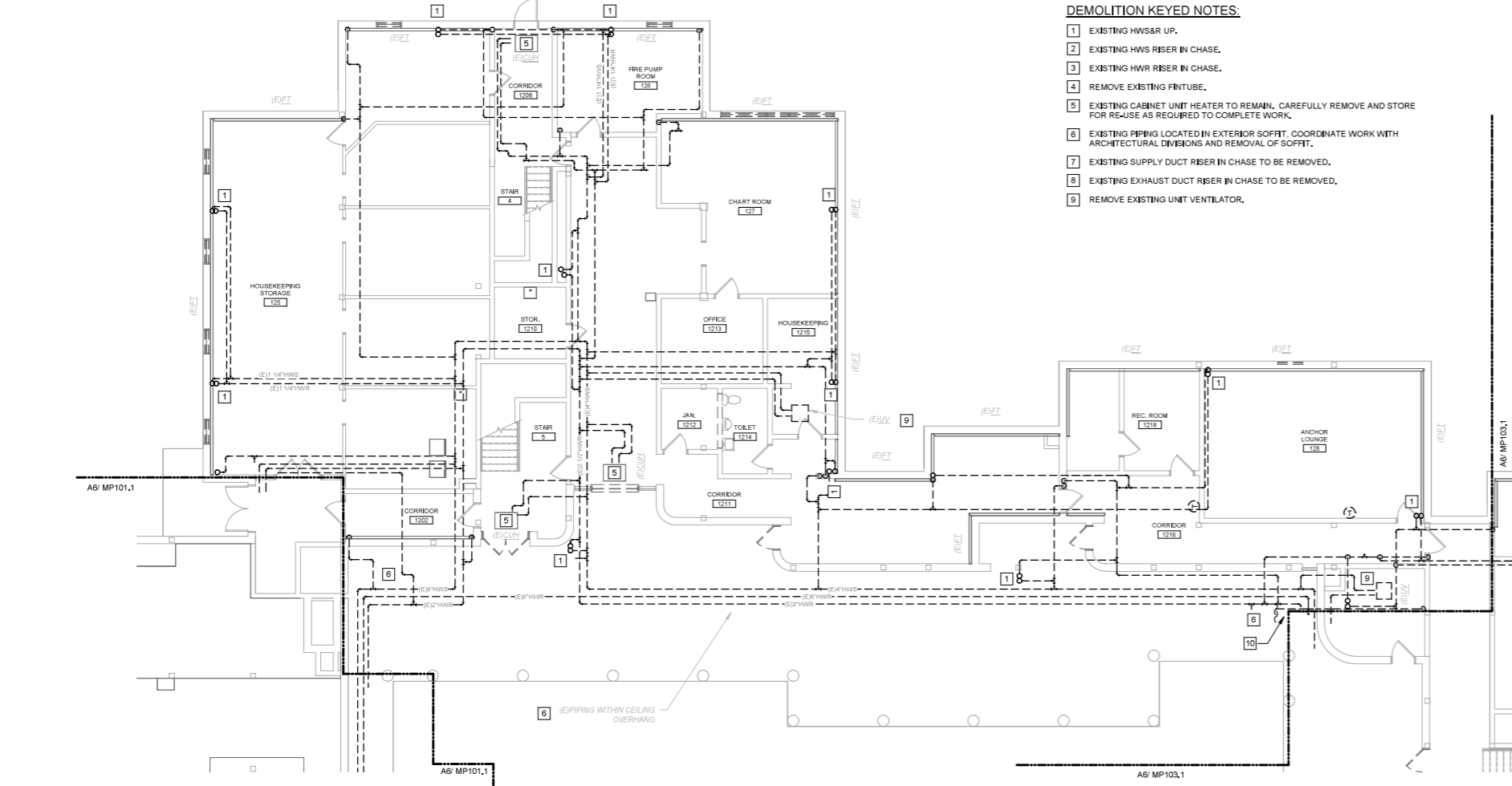
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FIRST FLOOR MECHANICAL PIPING DEMOLITION PLAN



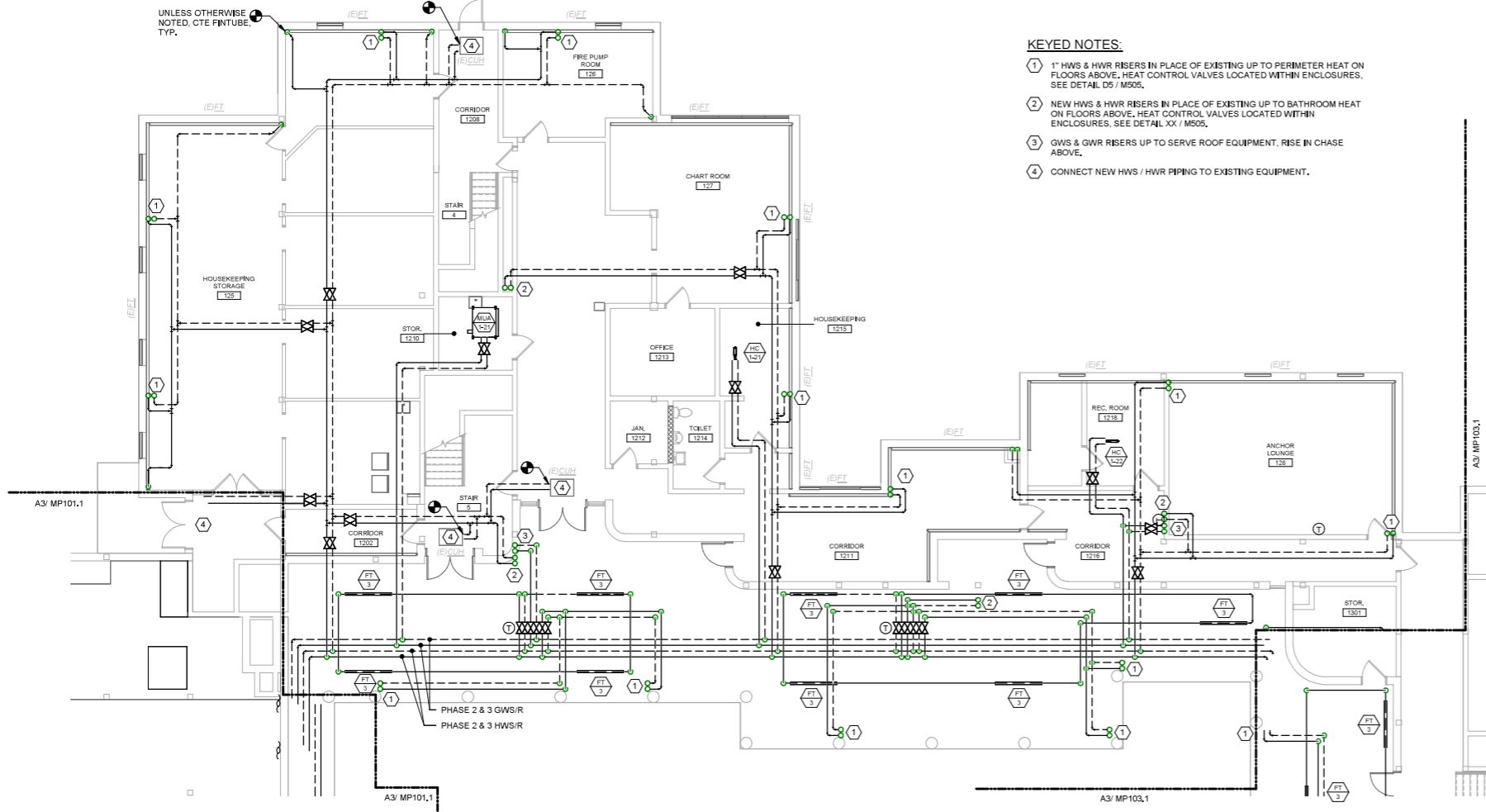
DEMOLITION KEYED NOTES:

- 1 EXISTING HWSR UP.
- 2 EXISTING HWS RISER IN CHASE.
- 3 EXISTING HWR RISER IN CHASE.
- 4 REMOVE EXISTING FINITUBE.
- 5 EXISTING CABINET UNIT HEATER TO REMAIN. CAREFULLY REMOVE AND STORE FOR RE-USE AS REQUIRED TO COMPLETE WORK.
- 6 EXISTING PIPING LOCATED IN EXTERIOR SOFFIT. COORDINATE WORK WITH ARCHITECTURAL DIVISIONS AND REMOVAL OF SOFFIT.
- 7 EXISTING SUPPLY DUCT RISER IN CHASE TO BE REMOVED.
- 8 EXISTING EXHAUST DUCT RISER IN CHASE TO BE REMOVED.
- 9 REMOVE EXISTING UNIT VENTILATOR.

1/8" = 1'-0"

B

A



KEYED NOTES:

- 1 1" HWS & HWR RISERS IN PLACE OF EXISTING UP TO PERIMETER HEAT ON FLOORS ABOVE. HEAT CONTROL VALVES LOCATED WITHIN ENCLOSURES. SEE DETAIL D5 / M505.
- 2 NEW HWS & HWR RISERS IN PLACE OF EXISTING UP TO BATHROOM HEAT ON FLOORS ABOVE. HEAT CONTROL VALVES LOCATED WITHIN ENCLOSURES. SEE DETAIL XX / M505.
- 3 GWS & GWR RISERS UP TO SERVE ROOF EQUIPMENT. RISE IN CHASE ABOVE.
- 4 CONNECT NEW HWS / HWR PIPING TO EXISTING EQUIPMENT.

1/8" = 1'-0"

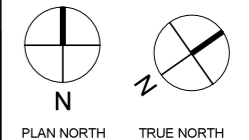
FIRST FLOOR MECHANICAL PIPING PLAN

GENERAL MECHANICAL NOTE:

UNLESS OTHERWISE NOTED, ALL EXISTING MECHANICAL PIPING WITHIN THE BUILDING INCLUDING HWS, HWR, LPS, LPR, MPS, & MPR IS TO BE REMOVED. HWS & HWR PIPING IS TO BE REPLACED WITH NEW. REFER TO DEMOLITION PLANS FOR APPROXIMATE PIPING LAYOUT. EXISTING HOT WATER EQUIPMENT SHALL REMAIN FOR RE-USE, EXCEPT WHERE NOTED FOR REPLACEMENT. PROVIDE NEW CONTROL VALVES AND CONNECT NEW PIPING TO EXISTING EQUIPMENT.

GENERAL PHASING NOTE:

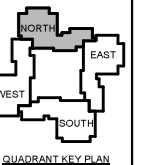
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No.	Date	Description
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NOT FOR CONSTRUCTION

JOB NO. 075982

ISSUE

100% CONSTRUCTION DOCUMENTS - ISSUED FOR BIDDING

11/22/2023

TITLE PHASE 2 FIRST FLOOR MECHANICAL PIPING PLANS

SHEET

MP102.1

E

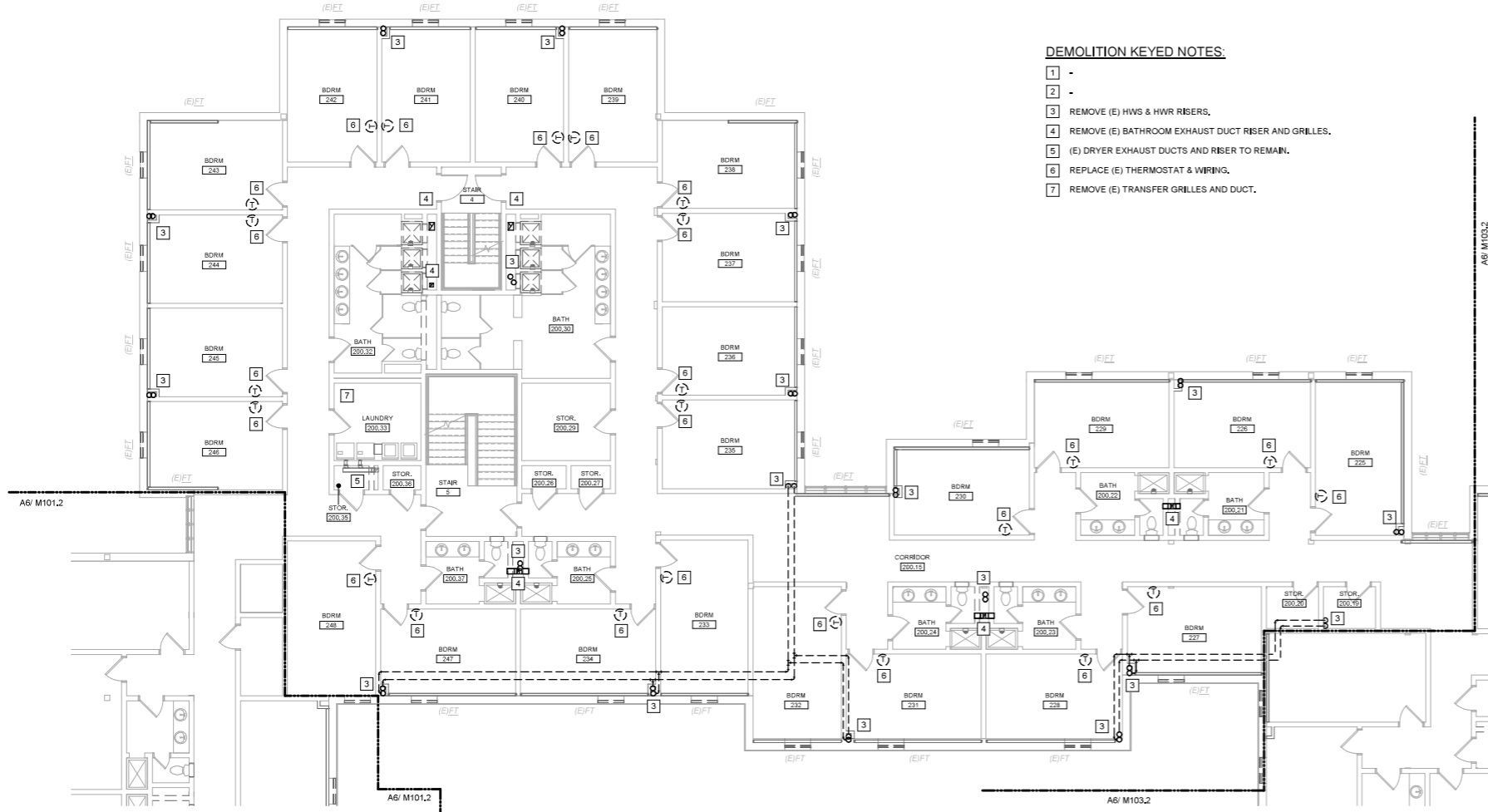
D

C6

PHASE 2 SECOND FLOOR MECHANICAL DEMOLITION PLAN

DEMOLITION KEYED NOTES:

- 1 -
- 2 -
- 3 REMOVE (E) HWS & HWR RISERS.
- 4 REMOVE (E) BATHROOM EXHAUST DUCT RISER AND GRILLES.
- 5 (E) DRYER EXHAUST DUCTS AND RISER TO REMAIN.
- 6 REPLACE (E) THERMOSTAT & WIRING.
- 7 REMOVE (E) TRANSFER GRILLES AND DUCT.



B

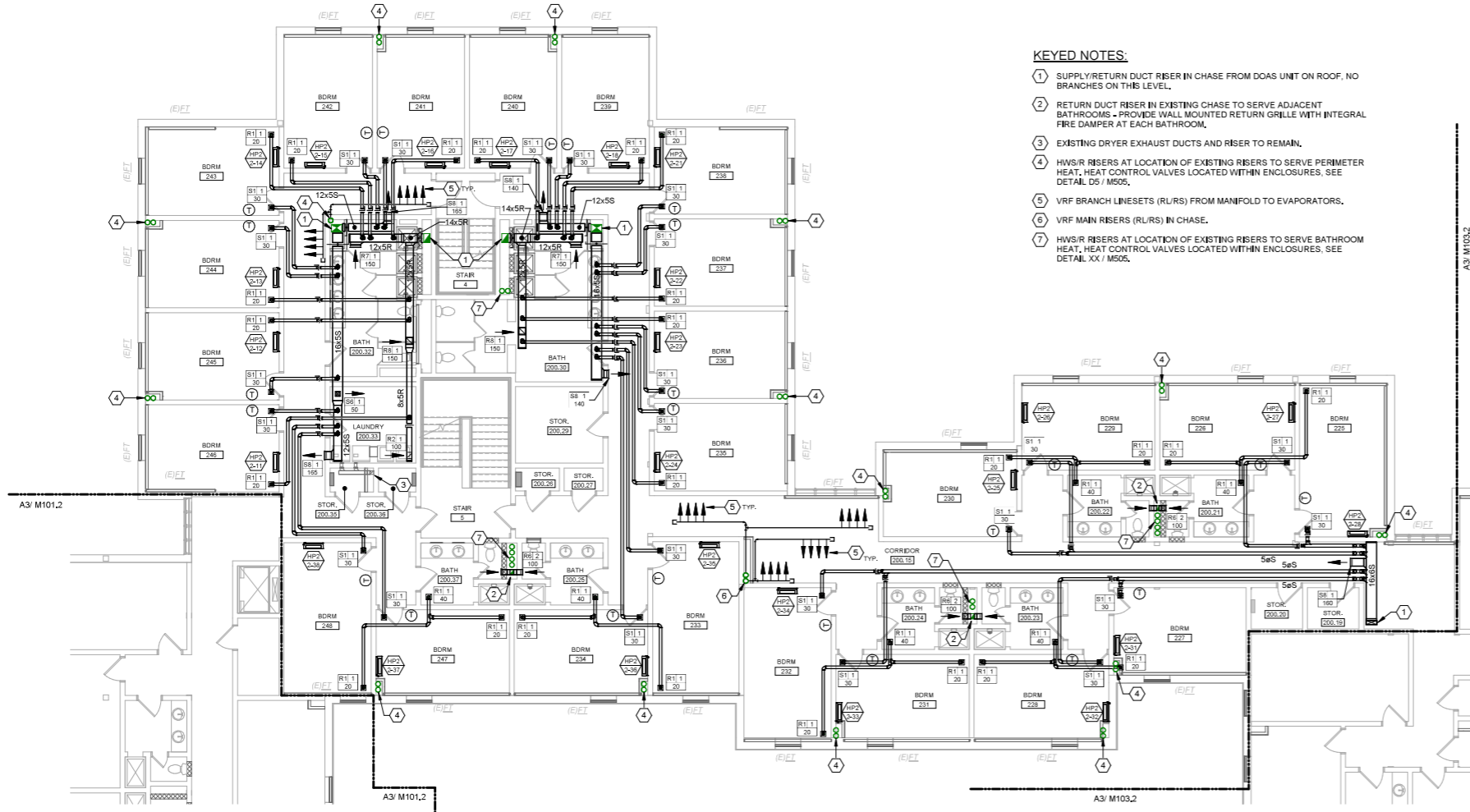
A

A6

PHASE 2 SECOND FLOOR MECHANICAL PLAN

KEYED NOTES:

- 1 SUPPLY/RETURN DUCT RISER IN CHASE FROM DOAS UNIT ON ROOF. NO BRANCHES ON THIS LEVEL.
- 2 RETURN DUCT RISER IN EXISTING CHASE TO SERVE ADJACENT BATHROOMS - PROVIDE WALL MOUNTED RETURN GRILLE WITH INTEGRAL FIRE DAMPER AT EACH BATHROOM.
- 3 EXISTING DRYER EXHAUST DUCTS AND RISER TO REMAIN.
- 4 HWS/R RISERS AT LOCATION OF EXISTING RISERS TO SERVE PERIMETER HEAT. HEAT CONTROL VALVES LOCATED WITHIN ENCLOSURES. SEE DETAIL DS / M505.
- 5 VRF BRANCH LINESETS (RL/RS) FROM MANFOLD TO EVAPORATORS.
- 6 VRF MAIN RISERS (RL/RS) IN CHASE.
- 7 HWS/R RISERS AT LOCATION OF EXISTING RISERS TO SERVE BATHROOM HEAT. HEAT CONTROL VALVES LOCATED WITHIN ENCLOSURES. SEE DETAIL XX / M505.

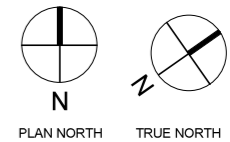


GENERAL MECHANICAL NOTE:

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GENERAL PHASING NOTE:

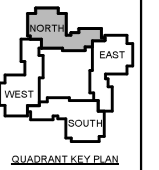
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JOB NO. 076982

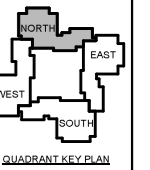
ISSUE 100% CONSTRUCTION DOCUMENTS - ISSUED FOR BIDDING

11/22/2023

TITLE PHASE 2 SECOND FLOOR MECHANICAL PLANS

SHEET M102.2





No.	Date	Description
		Revision Schedule

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JOB NO.  
075982

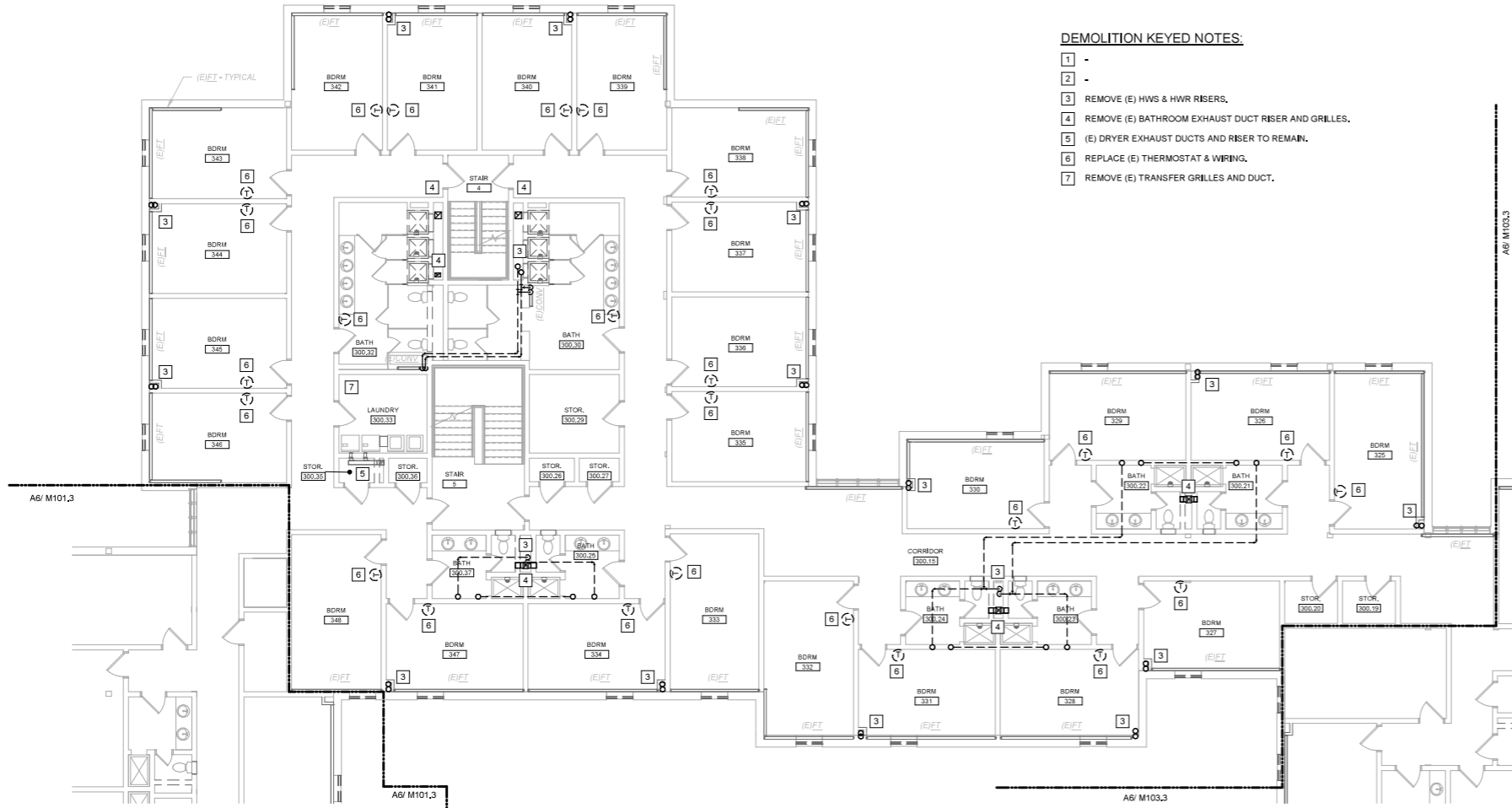
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TITLE  
PHASE 2 THIRD FLOOR MECHANICAL PLANS

SHEET  
M102.3

DEMOLITION KEYED NOTES:

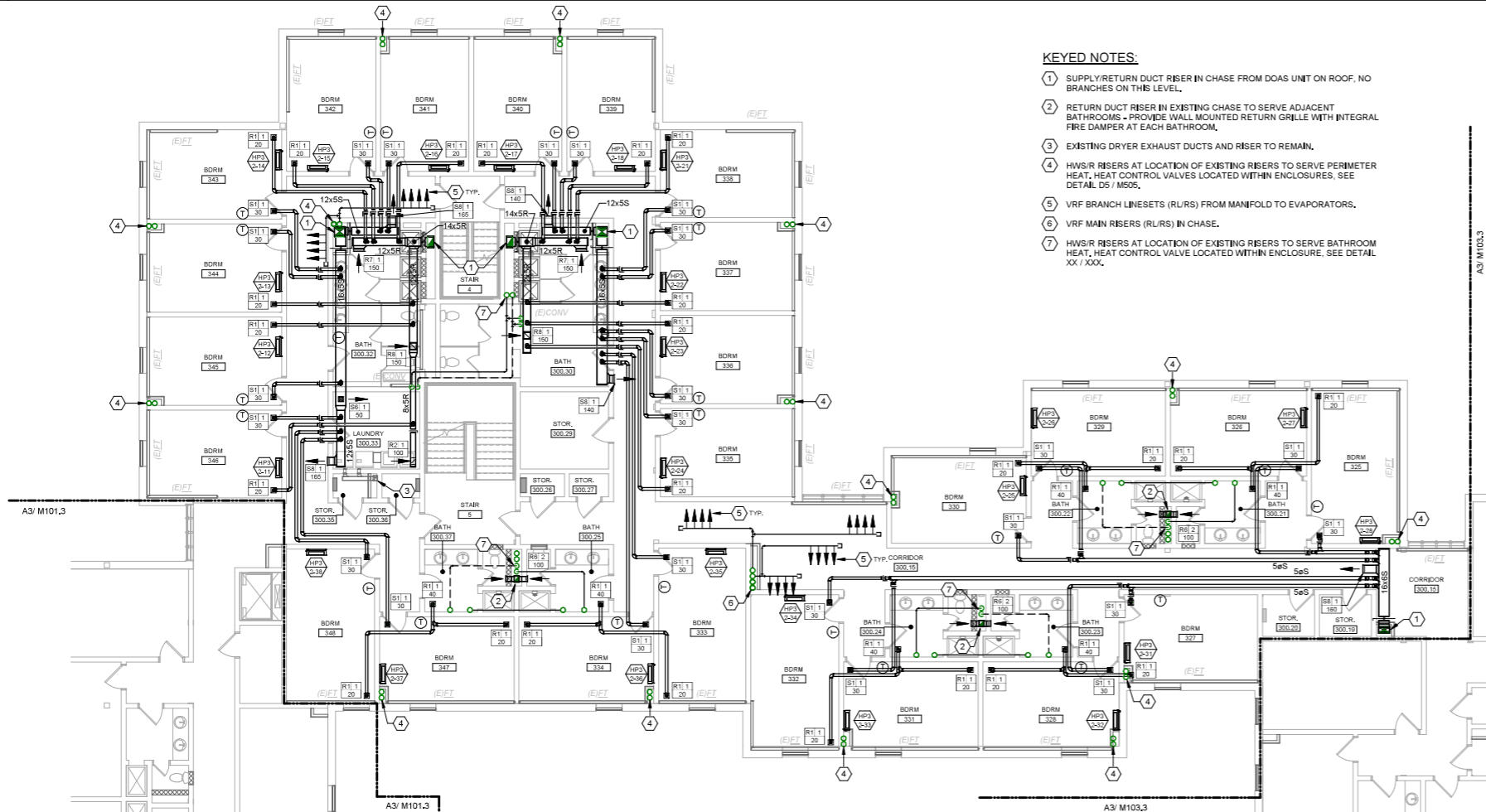
- 1 -
- 2 -
- 3 REMOVE (E) HWS & HWR RISERS.
- 4 REMOVE (E) BATHROOM EXHAUST DUCT RISER AND GRILLES.
- 5 (E) DRYER EXHAUST DUCTS AND RISER TO REMAIN.
- 6 REPLACE (E) THERMOSTAT & WIRING.
- 7 REMOVE (E) TRANSFER GRILLES AND DUCT.



C6 PHASE 2 THIRD FLOOR MECHANICAL DEMOLITION PLAN

KEYED NOTES:

- 1 SUPPLY/RETURN DUCT RISER IN CHASE FROM DOAS UNIT ON ROOF. NO BRANCHES ON THIS LEVEL.
- 2 RETURN DUCT RISER IN EXISTING CHASE TO SERVE ADJACENT BATHROOMS - PROVIDE WALL MOUNTED RETURN GRILLE WITH INTEGRAL FIRE DAMPER AT EACH BATHROOM.
- 3 EXISTING DRYER EXHAUST DUCTS AND RISER TO REMAIN.
- 4 HWS/R RISERS AT LOCATION OF EXISTING RISERS TO SERVE PERIMETER HEAT. HEAT CONTROL VALVES LOCATED WITHIN ENCLOSURES. SEE DETAIL 05 / M505.
- 5 VRF BRANCH LINESETS (RL/RS) FROM MANFOLD TO EVAPORATORS.
- 6 VRF MAIN RISERS (R/RS) IN CHASE.
- 7 HWS/R RISERS AT LOCATION OF EXISTING RISERS TO SERVE BATHROOM HEAT. HEAT CONTROL VALVE LOCATED WITHIN ENCLOSURE. SEE DETAIL XX / XXX.



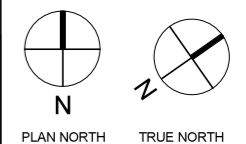
A6 PHASE 2 THIRD FLOOR MECHANICAL PLAN

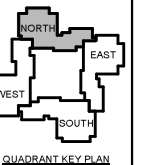
GENERAL MECHANICAL NOTE:

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GENERAL PHASING NOTE:

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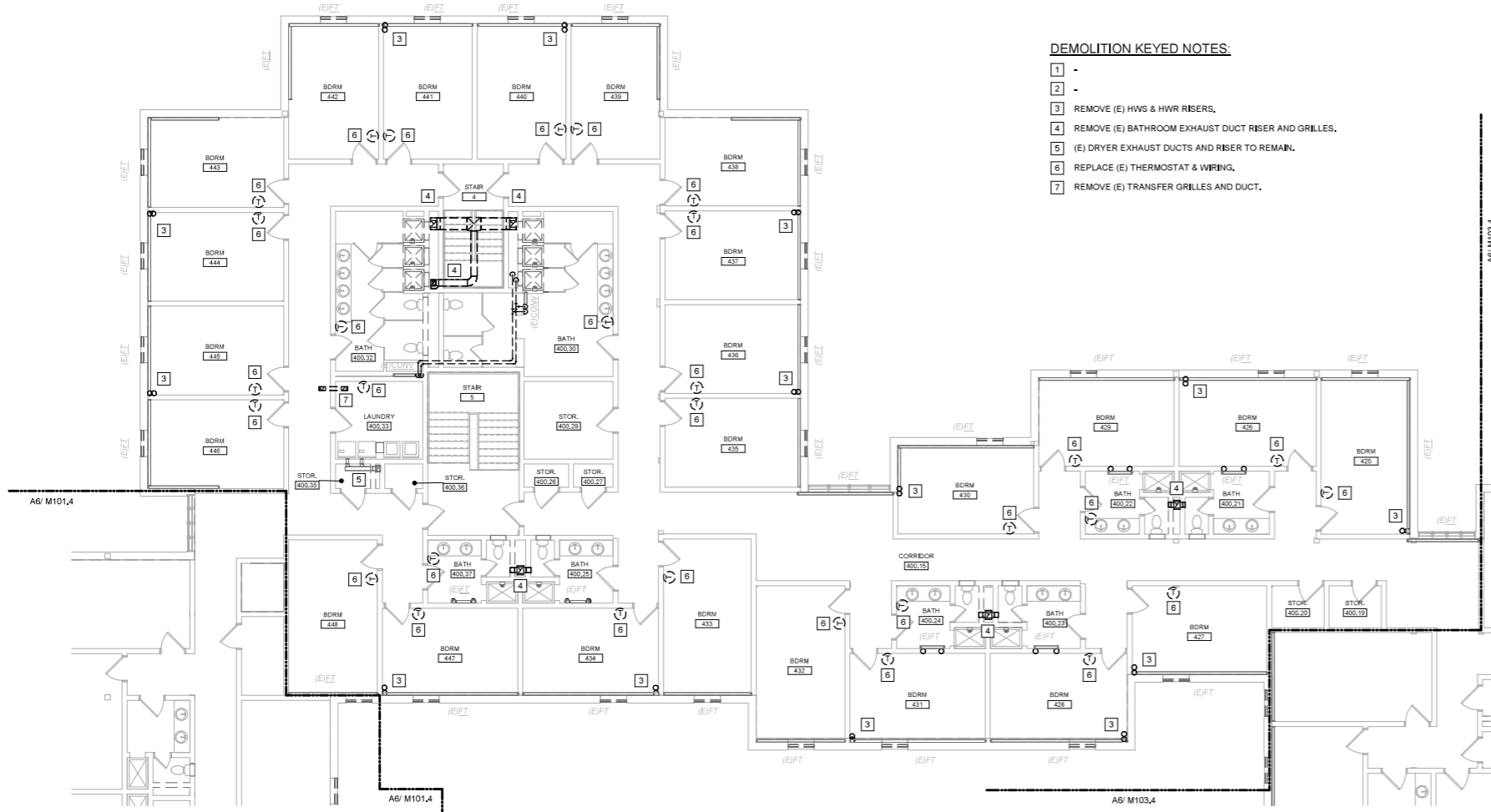
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TITLE  
PHASE 2 FOURTH FLOOR MECHANICAL PLANS

SHEET  
**M102.4**

**DEMOLITION KEYED NOTES:**

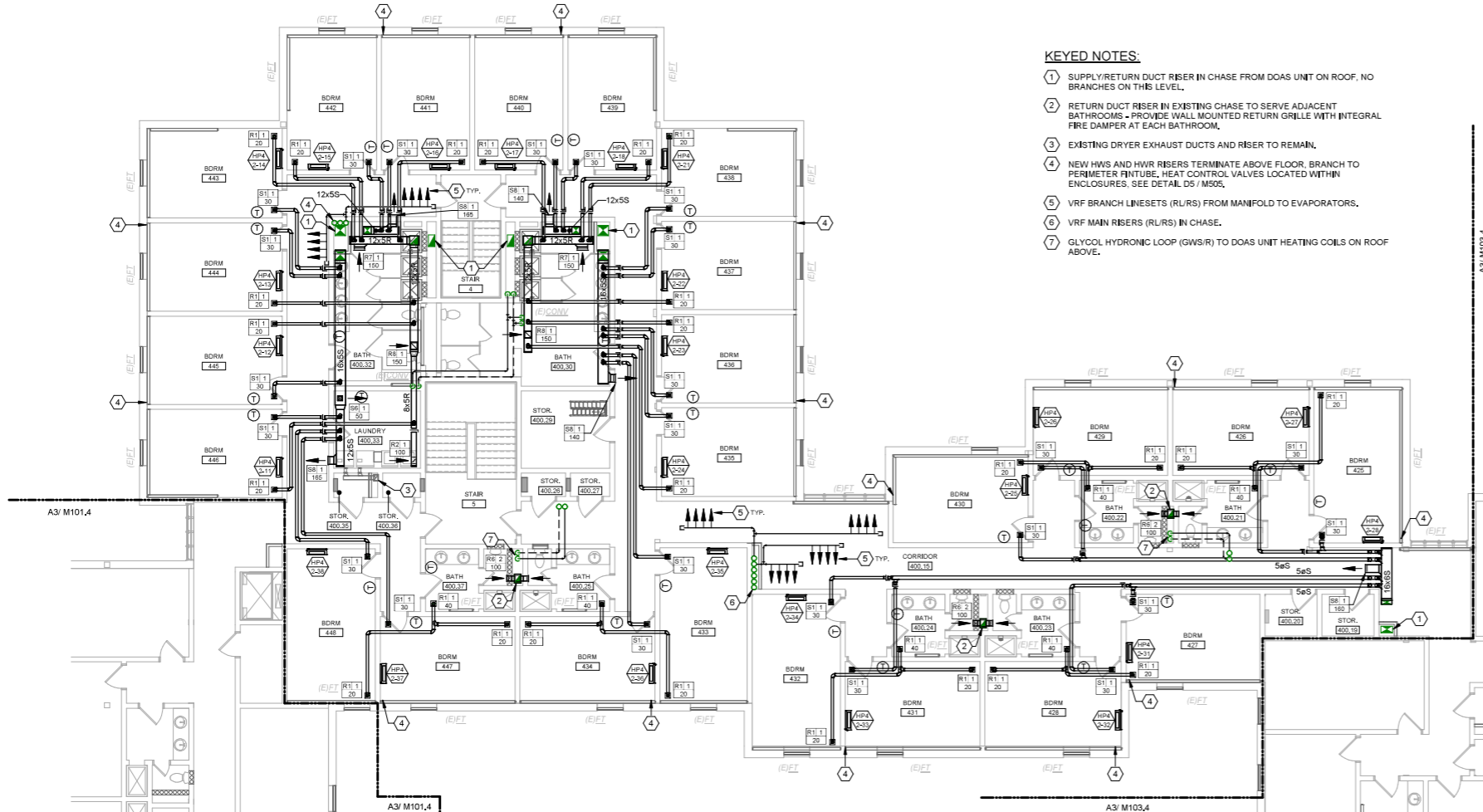
- 1 -
- 2 -
- 3 REMOVE (E) HWS & HWR RISERS.
- 4 REMOVE (E) BATHROOM EXHAUST DUCT RISER AND GRILLES.
- 5 (E) DRYER EXHAUST DUCTS AND RISER TO REMAIN.
- 6 REPLACE (E) THERMOSTAT & WIRING.
- 7 REMOVE (E) TRANSFER GRILLES AND DUCT.



C6 PHASE 2 FOURTH FLOOR MECHANICAL DEMOLITION PLAN

**KEYED NOTES:**

- 1 SUPPLY/RETURN DUCT RISER IN CHASE FROM DOAS UNIT ON ROOF. NO BRANCHES ON THIS LEVEL.
- 2 RETURN DUCT RISER IN EXISTING CHASE TO SERVE ADJACENT BATHROOMS - PROVIDE WALL MOUNTED RETURN GRILLE WITH INTEGRAL FIRE DAMPER AT EACH BATHROOM.
- 3 EXISTING DRYER EXHAUST DUCTS AND RISER TO REMAIN.
- 4 NEW HWS AND HWR RISERS TERMINATE ABOVE FLOOR, BRANCH TO PERIMETER FIN-TUBE, HEAT CONTROL VALVES LOCATED WITHIN ENCLOSURES. SEE DETAIL 05 / M105.
- 5 VRF BRANCH LINESETS (RL/RS) FROM MANFOLD TO EVAPORATORS.
- 6 VRF MAIN RISERS (RL/RS) IN CHASE.
- 7 GLYCOL HYDRONIC LOOP (GWS/R) TO DOAS UNIT HEATING COILS ON ROOF ABOVE.



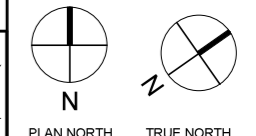
A6 PHASE 2 FOURTH FLOOR MECHANICAL PLAN

**GENERAL MECHANICAL NOTE:**

UNLESS OTHERWISE NOTED, ALL EXISTING MECHANICAL PIPING WITHIN THE BUILDING INCLUDING HWS, HWR, LPS, LPR, MPS, & MPR IS TO BE REMOVED, HWS & HWR PIPING IS TO BE REPLACED WITH NEW. REFER TO DEMOLITION PLANS FOR APPROXIMATE PIPING LAYOUT. EXISTING HOT WATER EQUIPMENT SHALL REMAIN FOR RE-USE, EXCEPT WHERE NOTED FOR REPLACEMENT, PROVIDE NEW CONTROL VALVES AND CONNECT NEW PIPING TO EXISTING EQUIPMENT.

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PHASE 2 ROOF LEVEL MECHANICAL DEMOLITION PLAN

DEMOLITION KEYED NOTES:

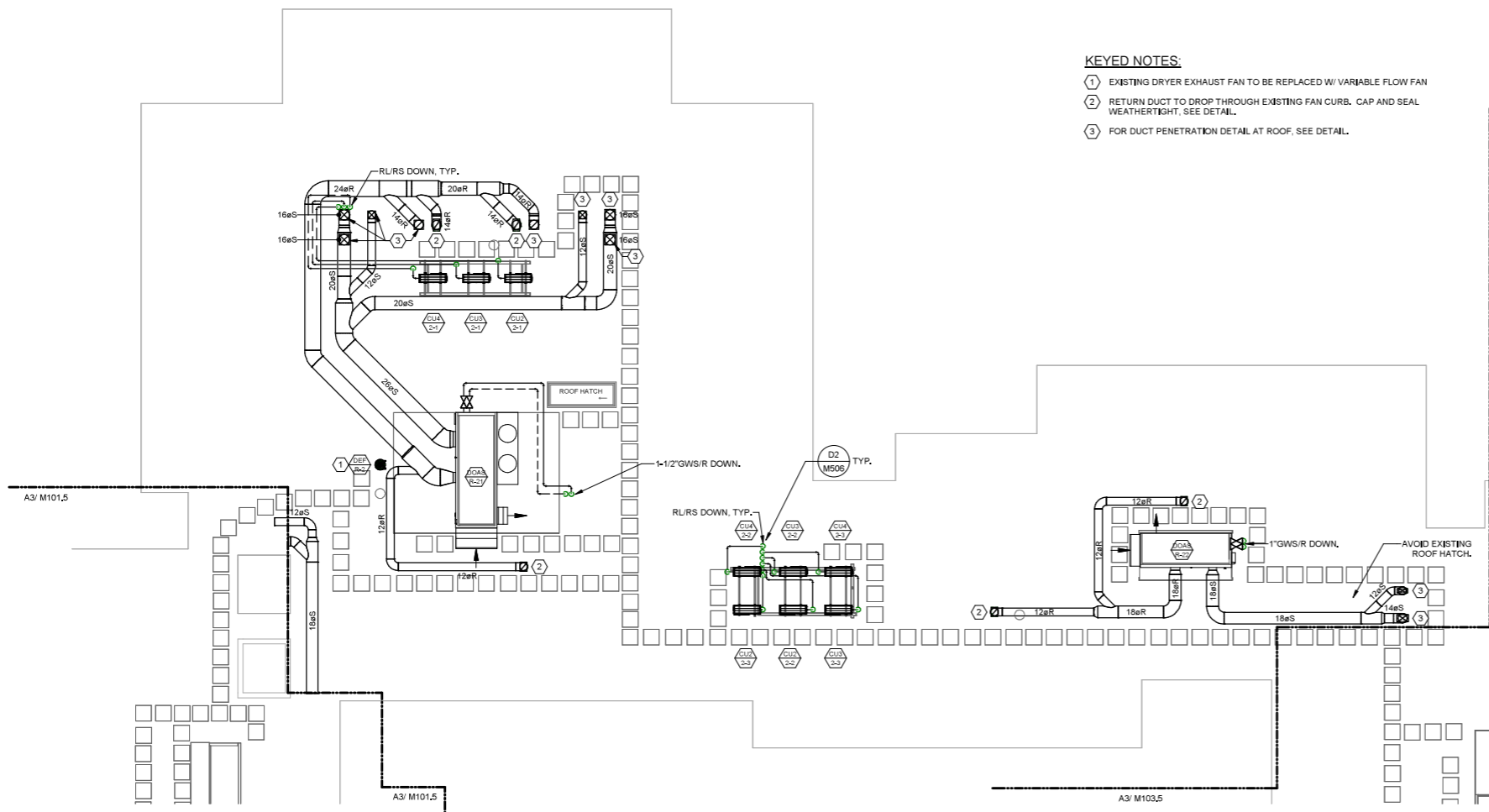
- 1 EXISTING DRYER EXHAUST FAN TO BE REPLACED, REMOVE EXISTING AND TURN OVER TO THE OWNER.
- 2 REMOVE EXISTING EXHAUST FAN AND TURN OVER TO THE OWNER.



PHASE 2 ROOF LEVEL MECHANICAL PLAN

KEYED NOTES:

- 1 EXISTING DRYER EXHAUST FAN TO BE REPLACED W/ VARIABLE FLOW FAN
- 2 RETURN DUCT TO DROP THROUGH EXISTING FAN CURB, CAP AND SEAL WEATHERTIGHT, SEE DETAIL.
- 3 FOR DUCT PENETRATION DETAIL AT ROOF, SEE DETAIL.

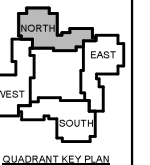
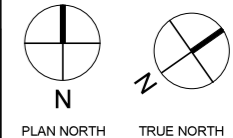


GENERAL MECHANICAL NOTE:

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TITLE PHASE 2 ROOF LEVEL MECHANICAL PLANS

SHEET M102.5

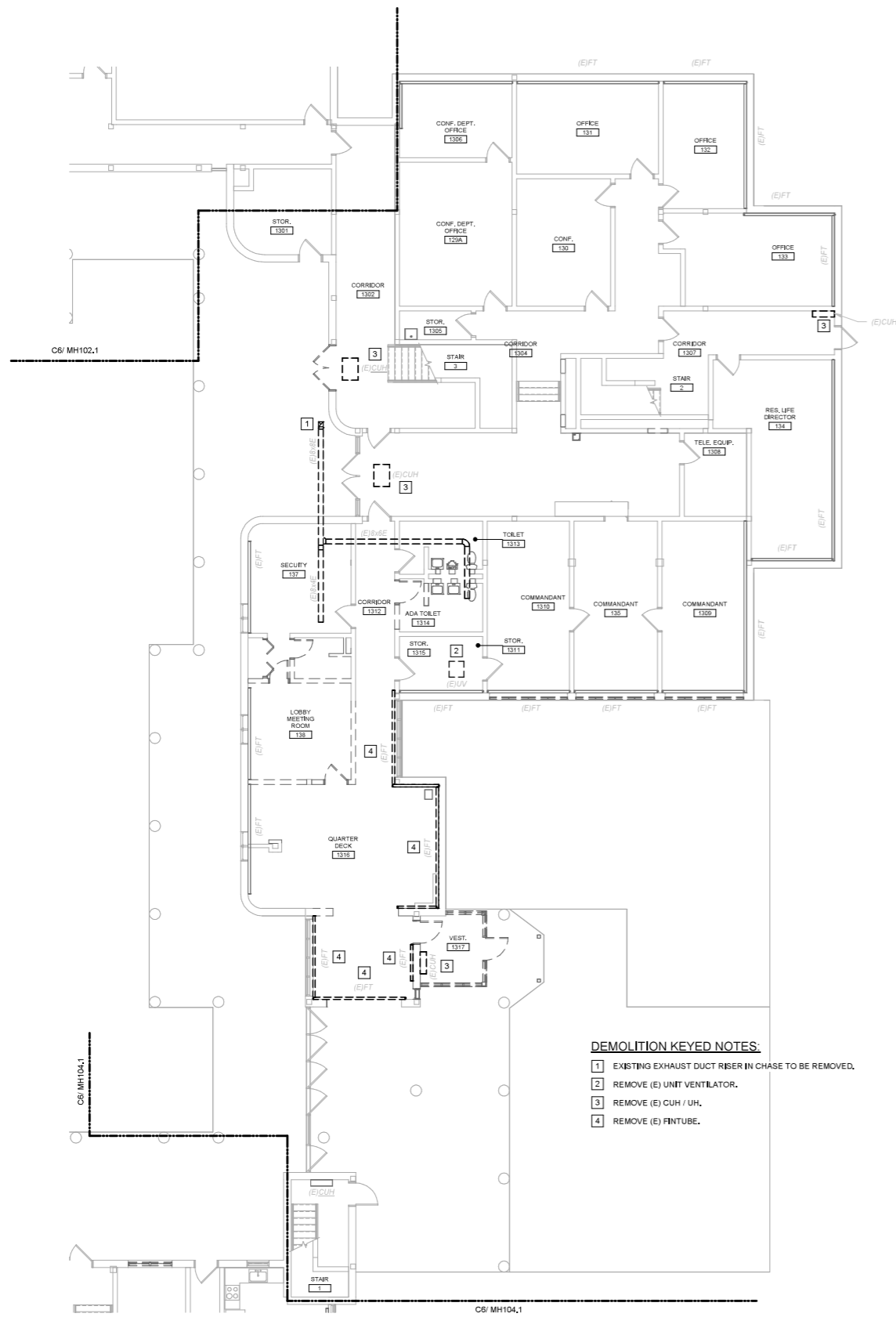
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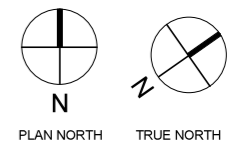
- DEMOLITION KEYED NOTES:**
- 1 EXISTING EXHAUST DUCT RISER IN CHASE TO BE REMOVED.
  - 2 REMOVE (E) UNIT VENTILATOR.
  - 3 REMOVE (E) CUH / UH.
  - 4 REMOVE (E) FIN TUBE.

**GENERAL MECHANICAL NOTE:**

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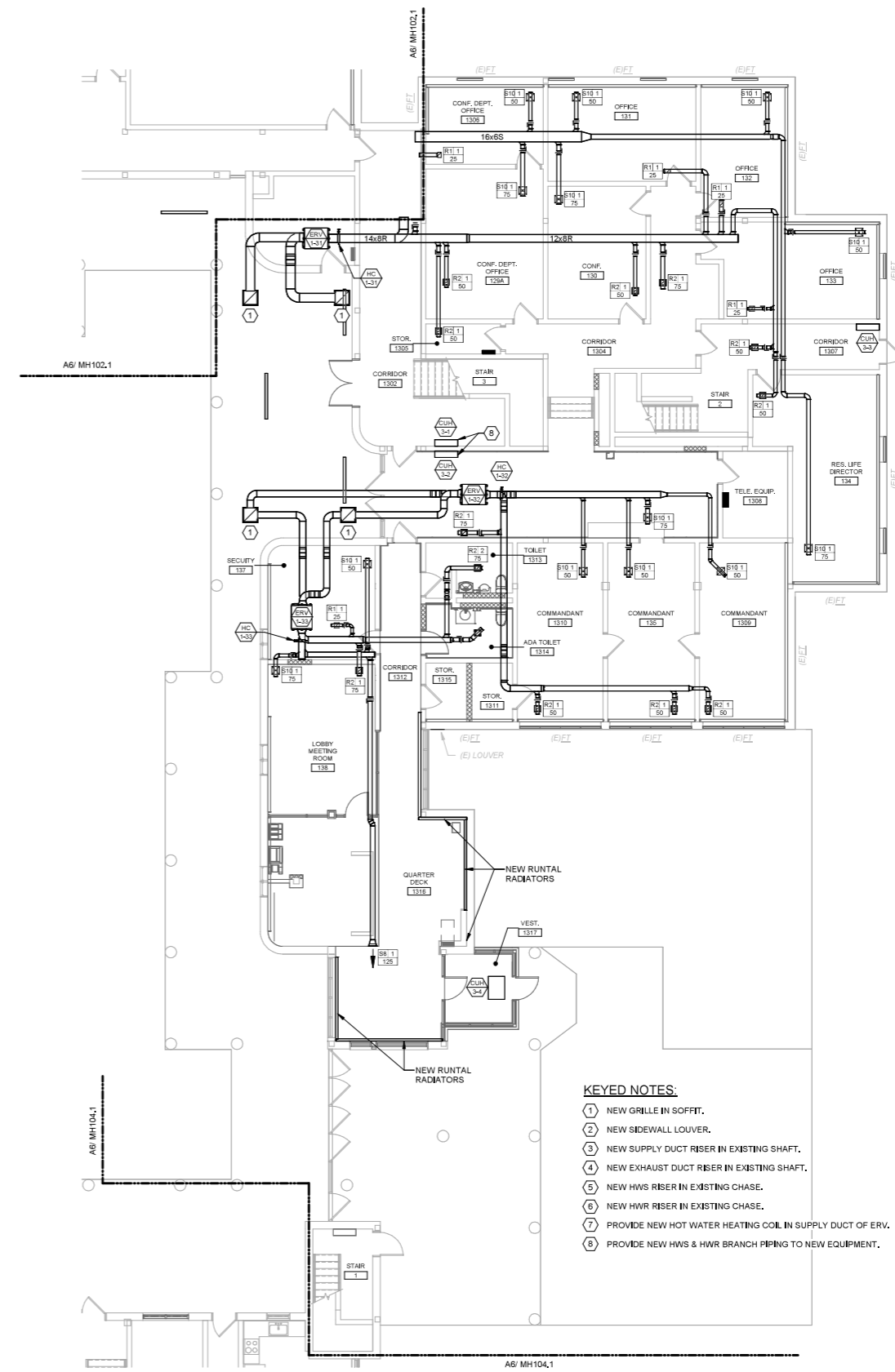
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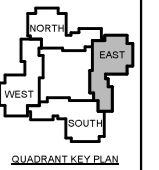
A6 PHASE 3 FIRST FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN

A3 PHASE 3 FIRST FLOOR MECHANICAL DUCTWORK PLAN



- KEYED NOTES:**
- 1 NEW GRILLE IN SOFFIT.
  - 2 NEW SIDEWALL LOUVER.
  - 3 NEW SUPPLY DUCT RISER IN EXISTING SHAFT.
  - 4 NEW EXHAUST DUCT RISER IN EXISTING SHAFT.
  - 5 NEW HWS RBER IN EXISTING CHASE.
  - 6 NEW HWR RISER IN EXISTING CHASE.
  - 7 PROVIDE NEW HOT WATER HEATING COIL IN SUPPLY DUCT OF ERV.
  - 8 PROVIDE NEW HWS & HWR BRANCH PIPING TO NEW EQUIPMENT.

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PHASE 3 FIRST FLOOR MECHANICAL DUCTWORK PLANS

SHEET  
**MH103.1**



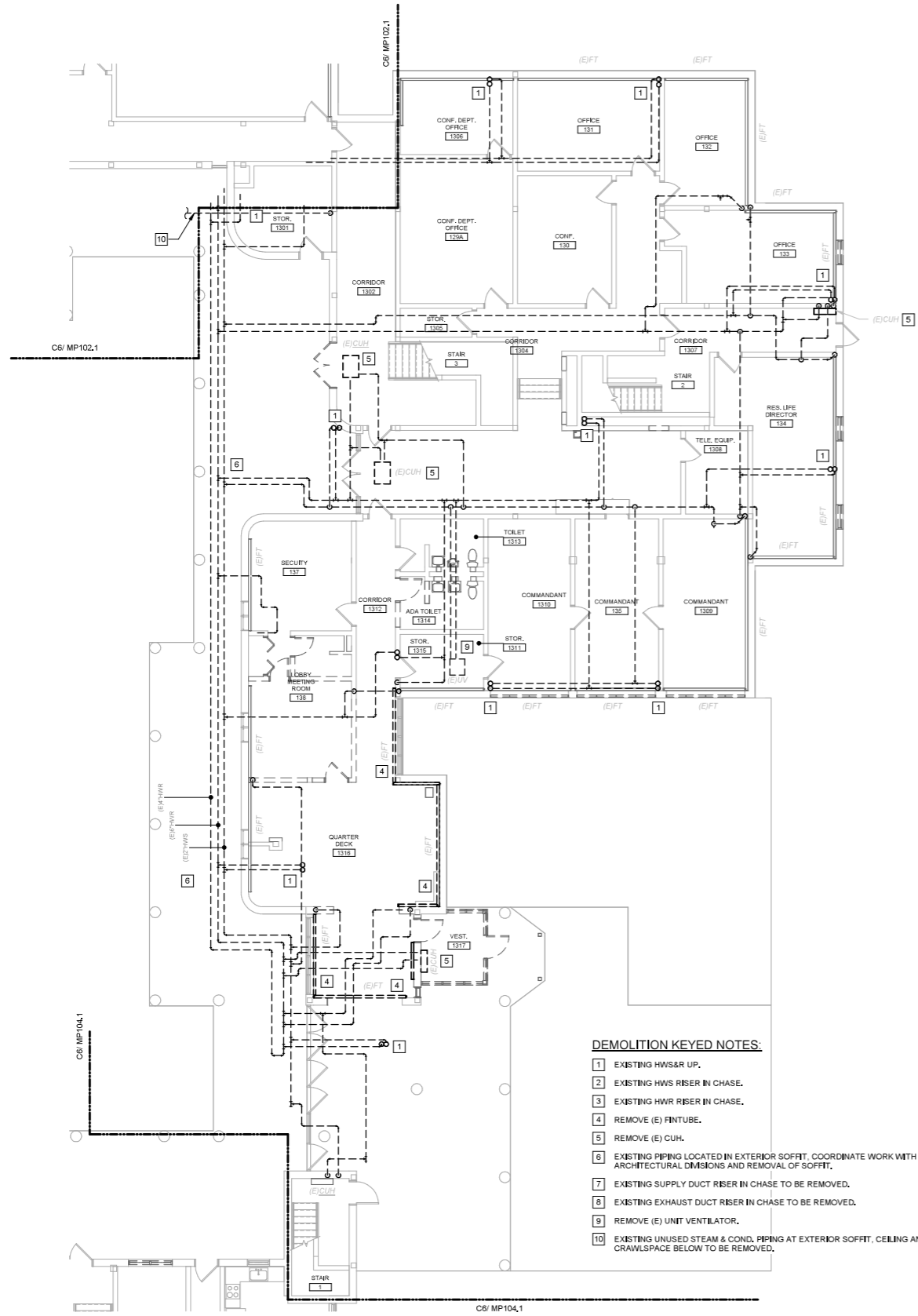
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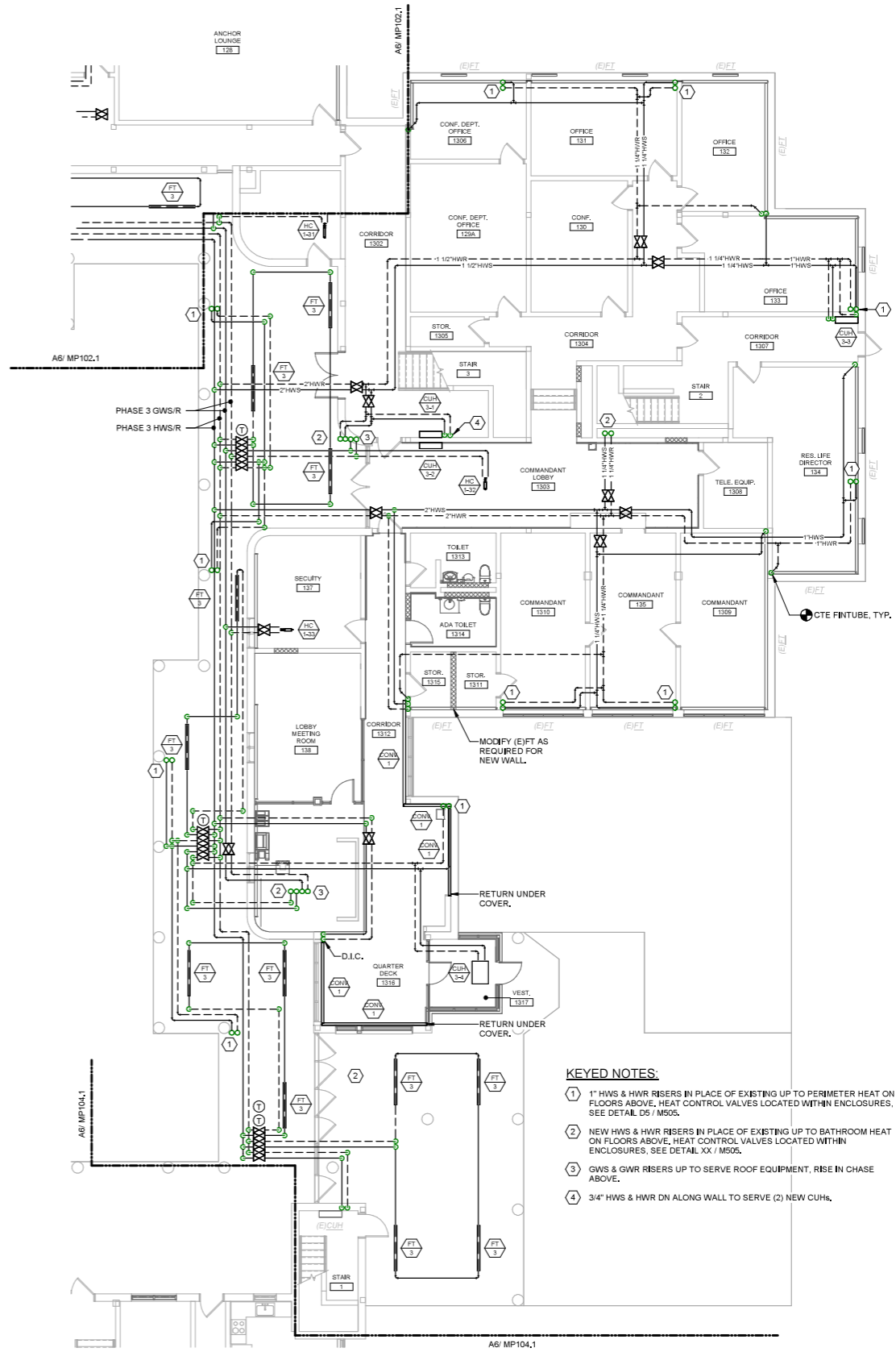


A6 FIRST FLOOR MECHANICAL PIPING DEMOLITION PLAN

1/8" = 1'-0"

A3 FIRST FLOOR MECHANICAL PIPING PLAN

1/8" = 1'-0"

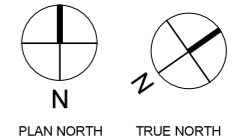


GENERAL MECHANICAL NOTE:

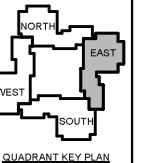
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GENERAL PHASING NOTE:

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TITLE  
PHASE 3 FIRST FLOOR MECHANICAL PIPING PLANS

SHEET  
MP103.1

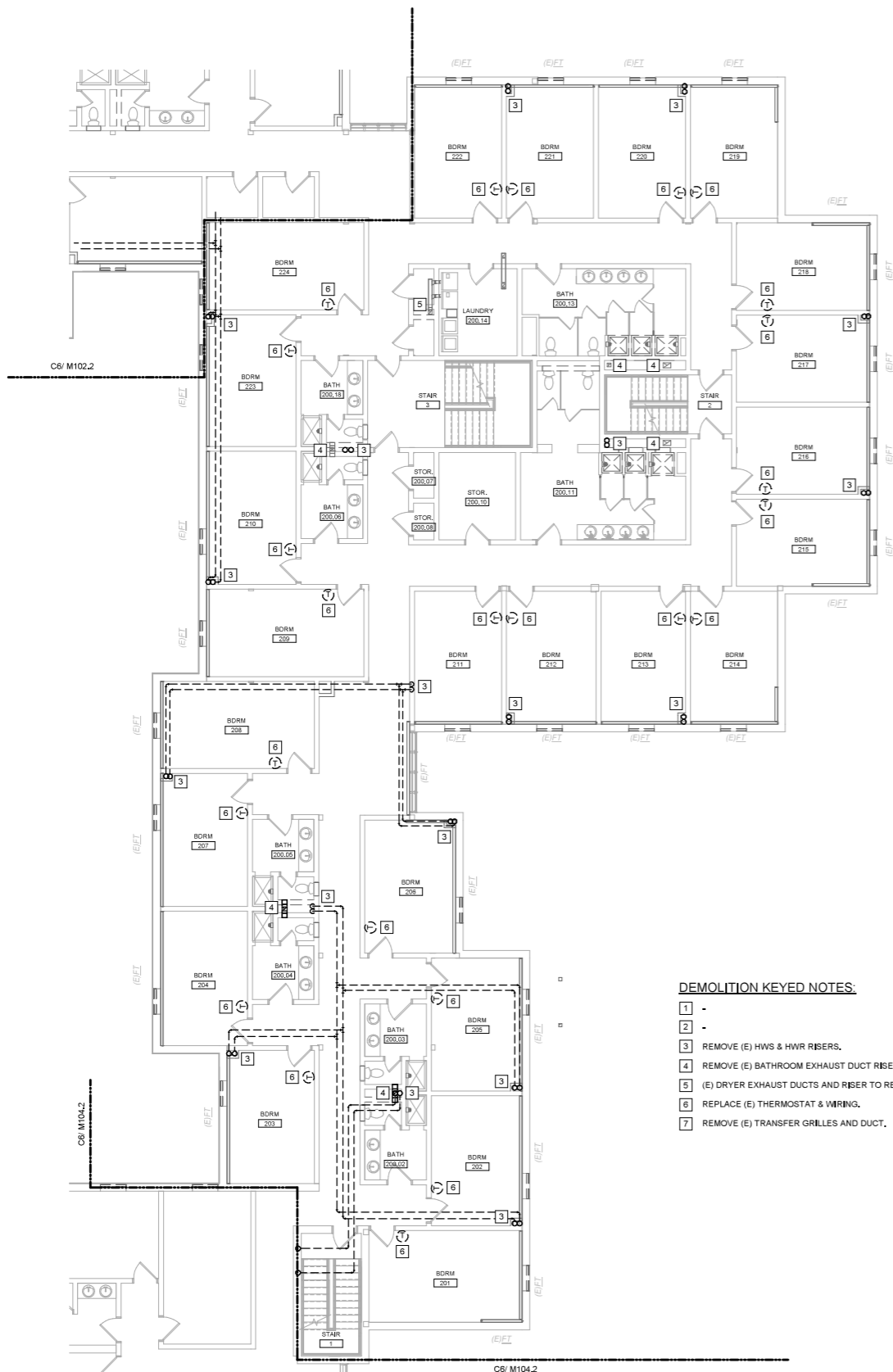
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**DEMOLITION KEYED NOTES:**

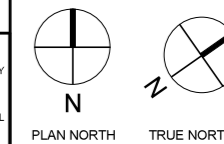
- 1 -
- 2 -
- 3 REMOVE (E) HWS & HWR RISERS.
- 4 REMOVE (E) BATHROOM EXHAUST DUCT RISER AND GRILLES.
- 5 (E) DRYER EXHAUST DUCTS AND RISER TO REMAIN.
- 6 REPLACE (E) THERMOSTAT & WIRING.
- 7 REMOVE (E) TRANSFER GRILLES AND DUCT.

**GENERAL MECHANICAL NOTE:**

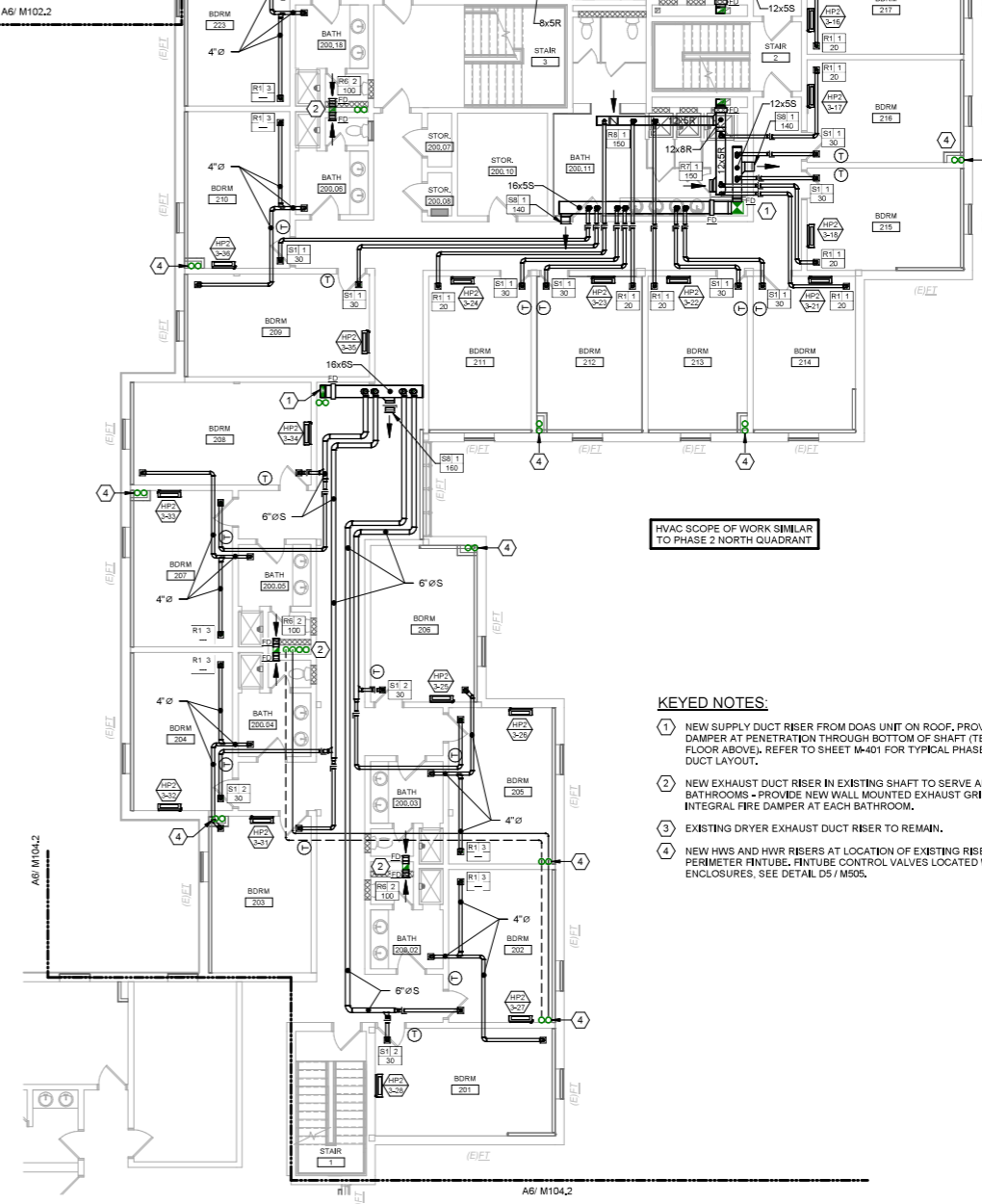
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**GENERAL PHASING NOTE:**

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A6 PHASE 3 SECOND FLOOR MECHANICAL DEMOLITION PLAN

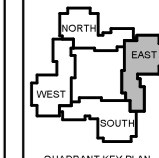


HVAC SCOPE OF WORK SIMILAR TO PHASE 2 NORTH QUADRANT

**KEYED NOTES:**

- 1 NEW SUPPLY DUCT RISER FROM DOAS UNIT ON ROOF. PROVIDE FIRE DAMPER AT PENETRATION THROUGH BOTTOM OF SHAFT (TERMINATION AT FLOOR ABOVE). REFER TO SHEET M-401 FOR TYPICAL PHASE BRANCH DUCT LAYOUT.
- 2 NEW EXHAUST DUCT RISER IN EXISTING SHAFT TO SERVE ADJACENT BATHROOMS - PROVIDE NEW WALL MOUNTED EXHAUST GRILLE WITH INTEGRAL FIRE DAMPER AT EACH BATHROOM.
- 3 EXISTING DRYER EXHAUST DUCT RISER TO REMAIN.
- 4 NEW HWS AND HWR RISERS AT LOCATION OF EXISTING RISERS TO FEED PERIMETER FIN TUBE. FIN TUBE CONTROL VALVES LOCATED WITHIN ENCLOSURES. SEE DETAIL D5/M905.

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11/22/2023

TITLE  
PHASE 3 SECOND FLOOR MECHANICAL PLANS

SHEET  
**M103.2**

A6

A3 PHASE 3 SECOND FLOOR MECHANICAL PLAN

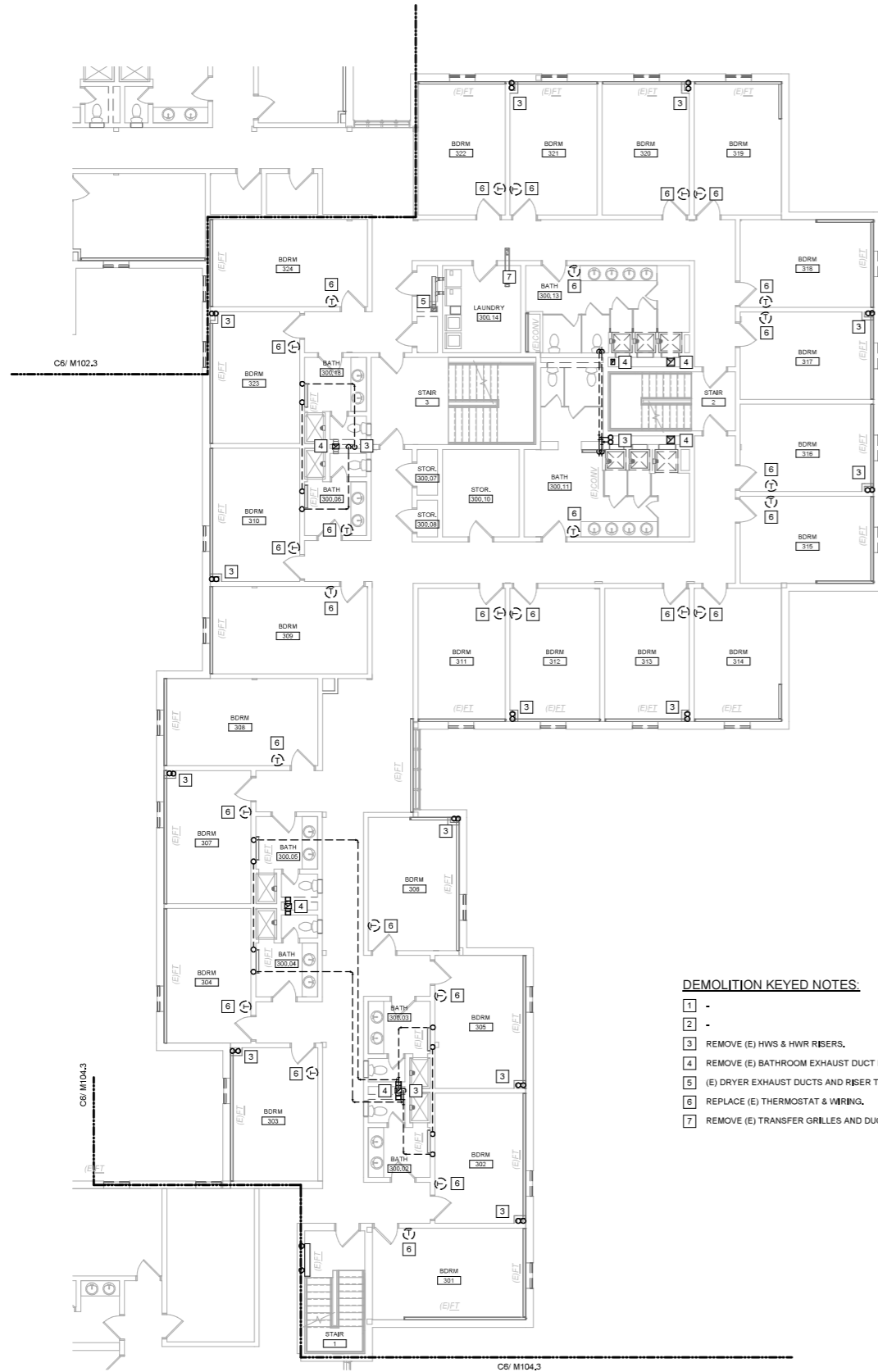
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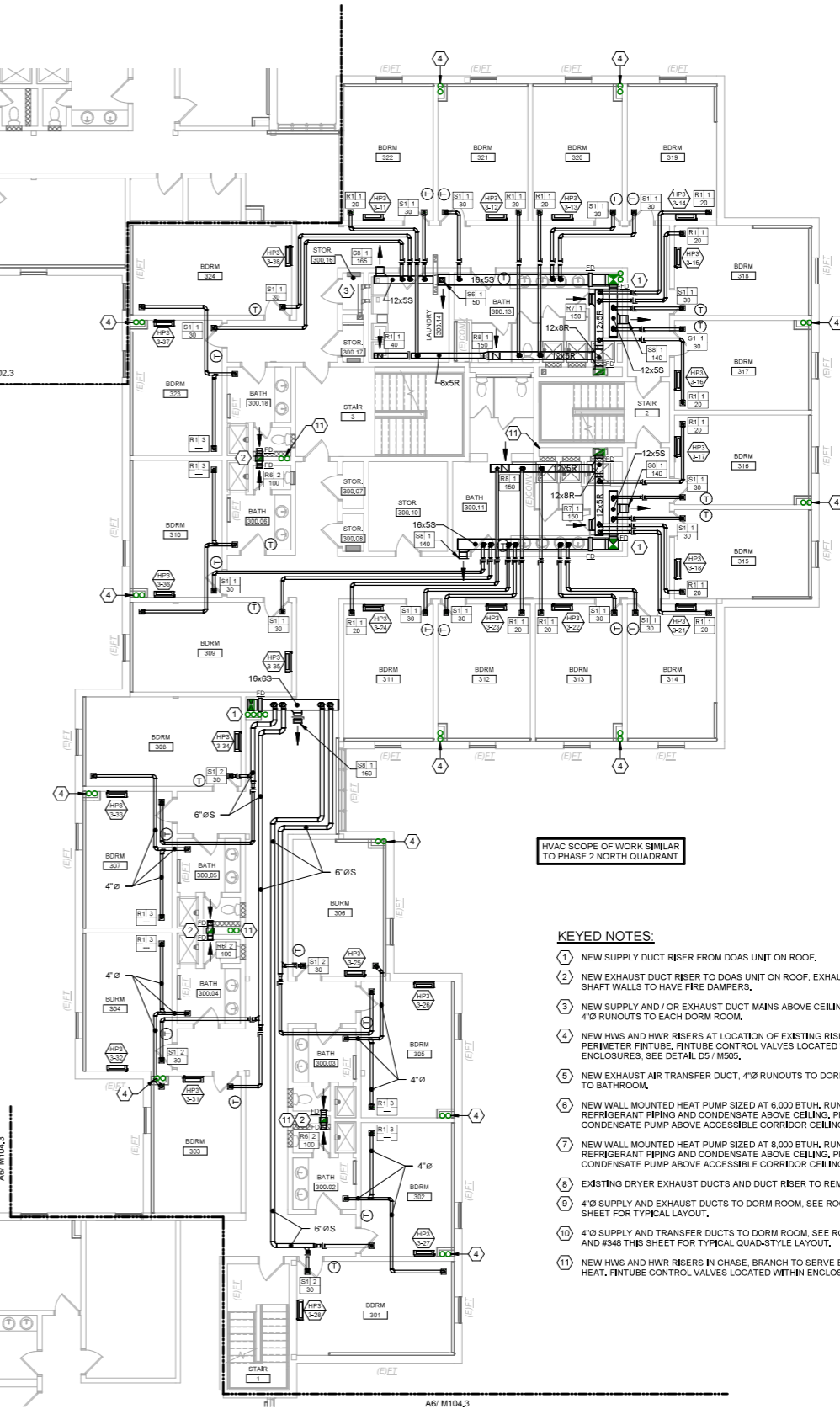
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**DEMOLITION KEYED NOTES:**

- 1 -
- 2 -
- 3 REMOVE (E) HWS & HWR RISERS.
- 4 REMOVE (E) BATHROOM EXHAUST DUCT RISER AND GRILLES.
- 5 (E) DRYER EXHAUST DUCTS AND RISER TO REMAIN.
- 6 REPLACE (E) THERMOSTAT & WIRING.
- 7 REMOVE (E) TRANSFER GRILLES AND DUCT.



HVAC SCOPE OF WORK SIMILAR TO PHASE 2 NORTH QUADRANT

**KEYED NOTES:**

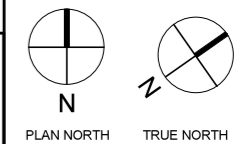
- 1 NEW SUPPLY DUCT RISER FROM DOAS UNIT ON ROOF.
- 2 NEW EXHAUST DUCT RISER TO DOAS UNIT ON ROOF, EXHAUST GRILLES IN SHAFT WALLS TO HAVE FIRE DAMPERS.
- 3 NEW SUPPLY AND / OR EXHAUST DUCT MAINS ABOVE CEILING, PROVIDE 4" RUNOUTS TO EACH DORM ROOM.
- 4 NEW HWS AND HWR RISERS AT LOCATION OF EXISTING RISERS TO FEED PERIMETER FINITUBE, FINITUBE CONTROL VALVES LOCATED WITHIN ENCLOSURES, SEE DETAIL D5 / M505.
- 5 NEW EXHAUST AIR TRANSFER DUCT, 4" RUNOUTS TO DORM ROOMS, 6" TO BATHROOM.
- 6 NEW WALL MOUNTED HEAT PUMP SIZED AT 6,000 BTUH, RUN REFRIGERANT PIPING AND CONDENSATE ABOVE CEILING, PROVIDE CONDENSATE PUMP ABOVE ACCESSIBLE CORRIDOR CEILING.
- 7 NEW WALL MOUNTED HEAT PUMP SIZED AT 8,000 BTUH, RUN REFRIGERANT PIPING AND CONDENSATE ABOVE CEILING, PROVIDE CONDENSATE PUMP ABOVE ACCESSIBLE CORRIDOR CEILING.
- 8 EXISTING DRYER EXHAUST DUCTS AND DUCT RISER TO REMAIN.
- 9 4" SUPPLY AND EXHAUST DUCTS TO DORM ROOM. SEE ROOM #346 THIS SHEET FOR TYPICAL LAYOUT.
- 10 4" SUPPLY AND TRANSFER DUCTS TO DORM ROOM. SEE ROOMS #347 AND #348 THIS SHEET FOR TYPICAL QUAD-STYLE LAYOUT.
- 11 NEW HWS AND HWR RISERS IN CHASE, BRANCH TO SERVE BATHROOM HEAT, FINITUBE CONTROL VALVES LOCATED WITHIN ENCLOSURES.

**GENERAL MECHANICAL NOTE:**

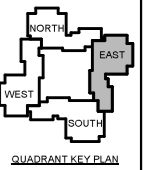
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Revision	Schedule

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11/22/2023

TITLE  
PHASE 3 THIRD FLOOR MECHANICAL PLANS

SHEET  
**M103.3**

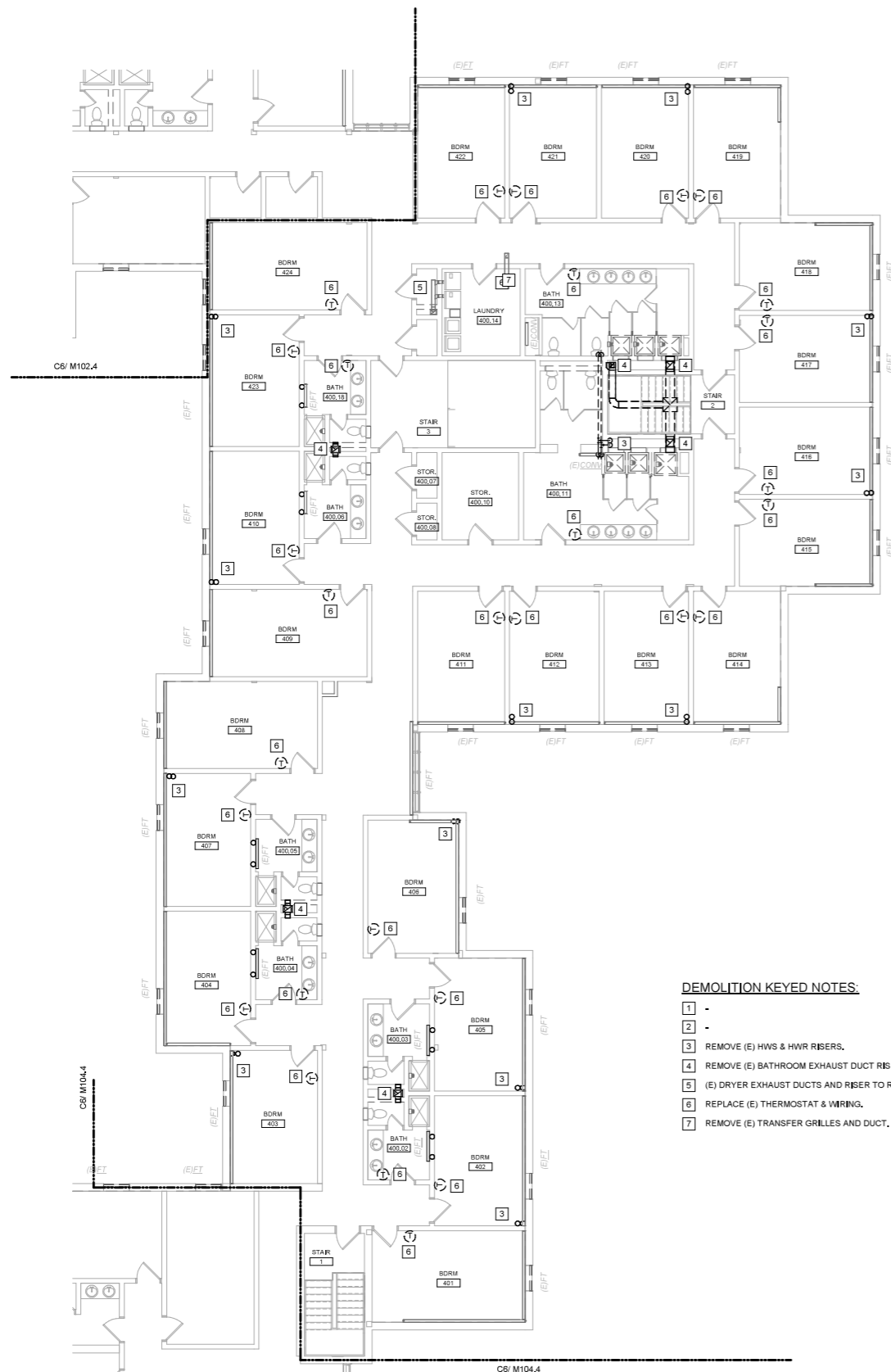
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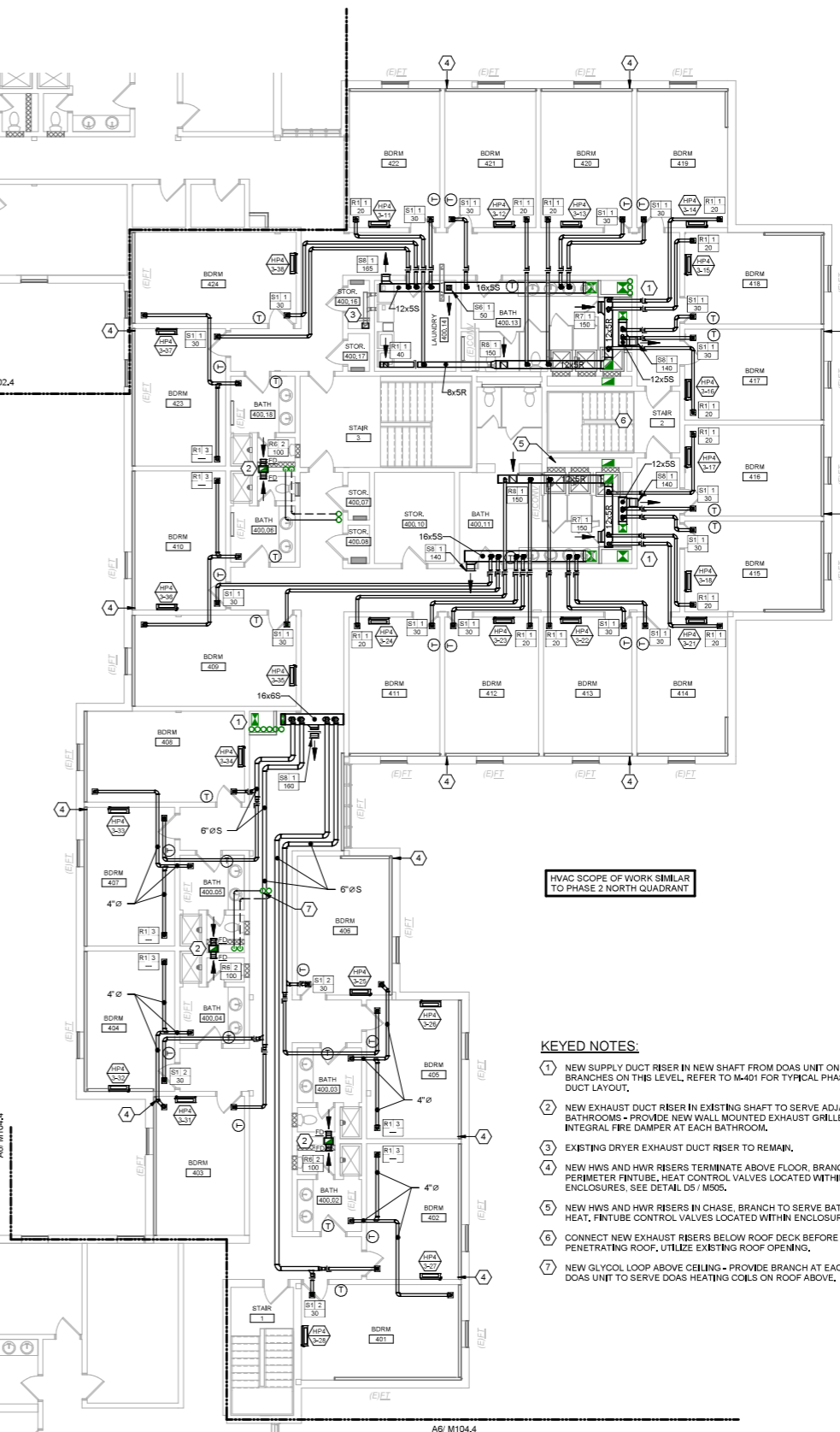
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**DEMOLITION KEYED NOTES:**

- 1 -
- 2 -
- 3 REMOVE (E) HWS & HWR RISERS.
- 4 REMOVE (E) BATHROOM EXHAUST DUCT RISER AND GRILLES.
- 5 (E) DRYER EXHAUST DUCTS AND RISER TO REMAIN.
- 6 REPLACE (E) THERMOSTAT & WIRING.
- 7 REMOVE (E) TRANSFER GRILLES AND DUCT.



HVAC SCOPE OF WORK SIMILAR TO PHASE 2 NORTH QUADRANT

**KEYED NOTES:**

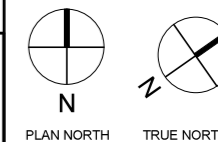
- 1 NEW SUPPLY DUCT RISER IN NEW SHAFT FROM DOAS UNIT ON ROOF. NO BRANCHES ON THIS LEVEL, REFER TO M-401 FOR TYPICAL PHASE BRANCH DUCT LAYOUT.
- 2 NEW EXHAUST DUCT RISER IN EXISTING SHAFT TO SERVE ADJACENT BATHROOMS - PROVIDE NEW WALL MOUNTED EXHAUST GRILLE WITH INTEGRAL FIRE DAMPER AT EACH BATHROOM.
- 3 EXISTING DRYER EXHAUST DUCT RISER TO REMAIN.
- 4 NEW HWS AND HWR RISERS TERMINATE ABOVE FLOOR, BRANCH TO PERIMETER FINITUBE, HEAT CONTROL VALVES LOCATED WITHIN ENCLOSURES. SEE DETAIL D5 / M502.
- 5 NEW HWS AND HWR RISERS IN CHASE, BRANCH TO SERVE BATHROOM HEAT, FINITUBE CONTROL VALVES LOCATED WITHIN ENCLOSURES.
- 6 CONNECT NEW EXHAUST RISERS BELOW ROOF DECK BEFORE PENETRATING ROOF, UTILIZE EXISTING ROOF OPENING.
- 7 NEW GLYCOL LOOP ABOVE CEILING - PROVIDE BRANCH AT EACH NEW DOAS UNIT TO SERVE DOAS HEATING COILS ON ROOF ABOVE.

**GENERAL MECHANICAL NOTE:**

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**GENERAL PHASING NOTE:**

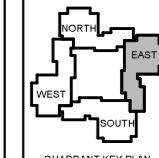
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QUADRANT KEY PLAN

No.	Date	Description
Revision Schedule		

NOT FOR CONSTRUCTION

JOB NO.  
075982

ISSUE  
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11/22/2023

TITLE  
PHASE 3 FOURTH FLOOR MECHANICAL PLANS

SHEET  
**M103.4**



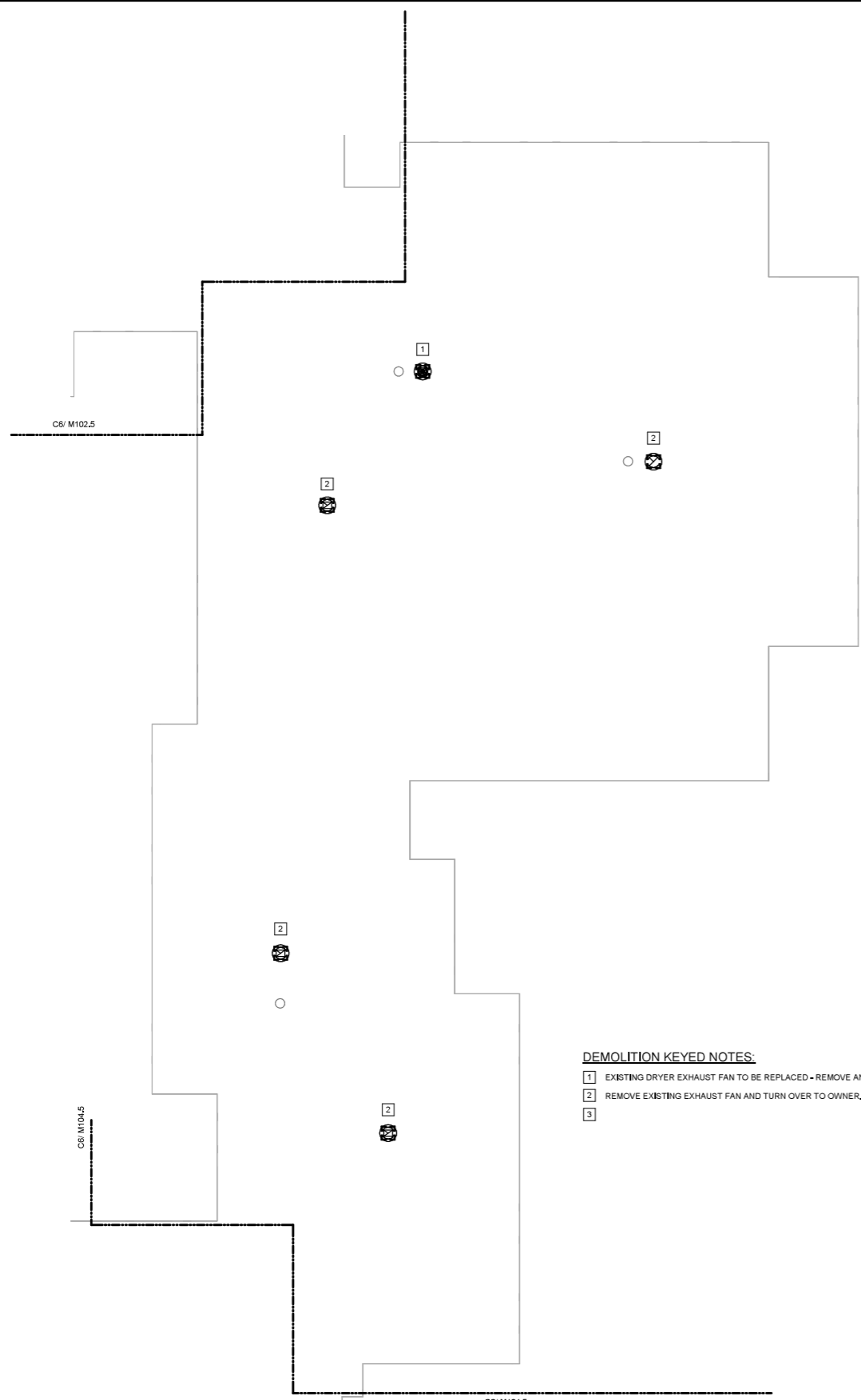
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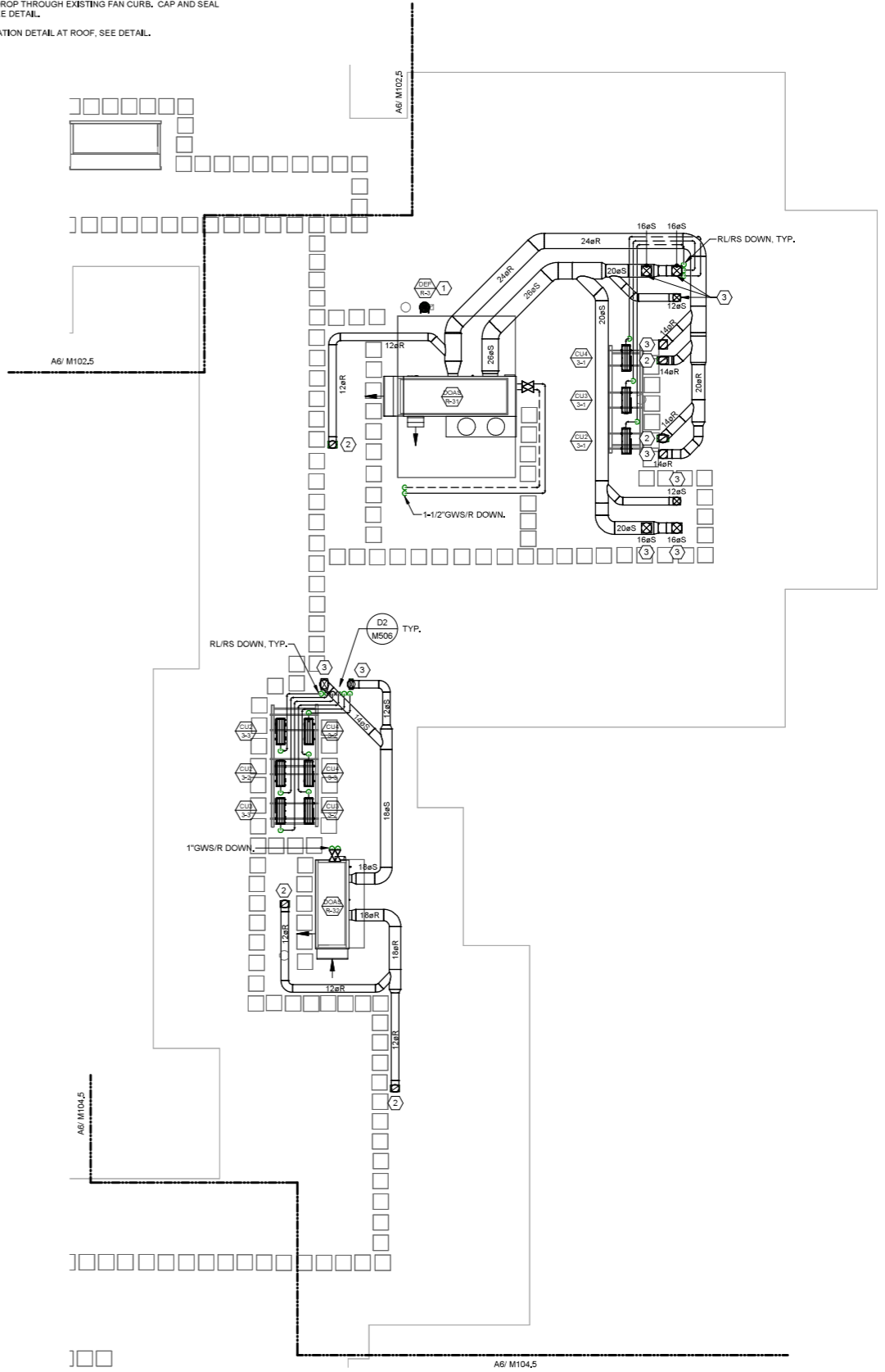


**DEMOLITION KEYED NOTES:**

- 1 EXISTING DRYER EXHAUST FAN TO BE REPLACED - REMOVE AND TURN OVER TO OWNER.
- 2 REMOVE EXISTING EXHAUST FAN AND TURN OVER TO OWNER.
- 3

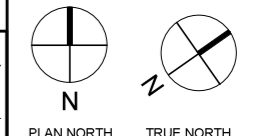
**KEYED NOTES:**

- 1 EXISTING DRYER EXHAUST FAN TO BE REPLACED W/ VARIABLE FLOW FAN.
- 2 RETURN DUCT TO DROP THROUGH EXISTING FAN CURB, CAP AND SEAL WEATHERTIGHT, SEE DETAIL.
- 3 FOR DUCT PENETRATION DETAIL AT ROOF, SEE DETAIL.



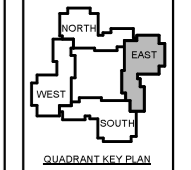
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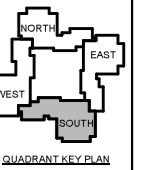
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TITLE  
PHASE 3 ROOF LEVEL MECHANICAL PLANS

SHEET  
**M103.5**



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		Revision Schedule

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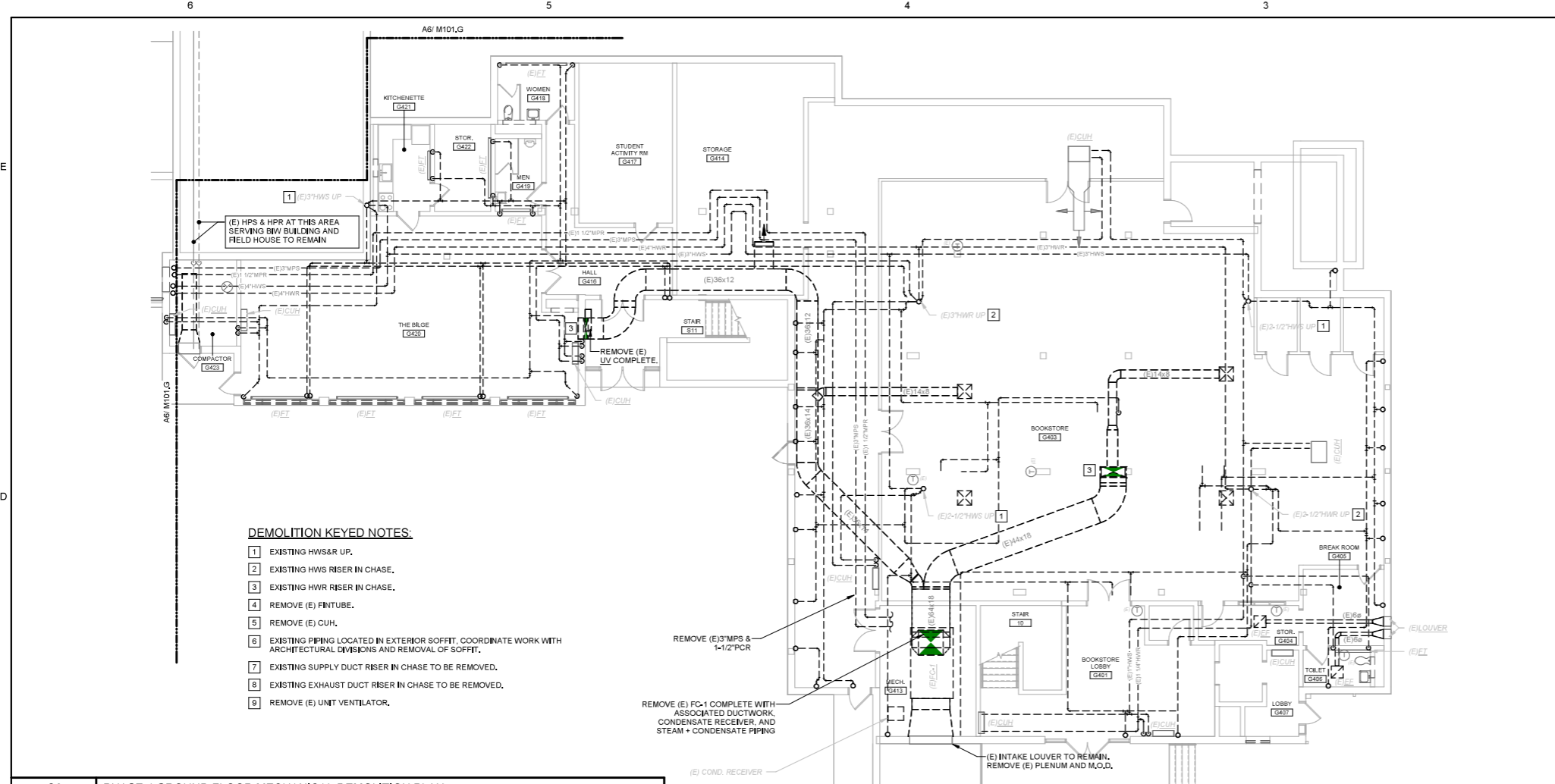
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TITLE  
PHASE 4 GROUND FLOOR MECHANICAL PLANS

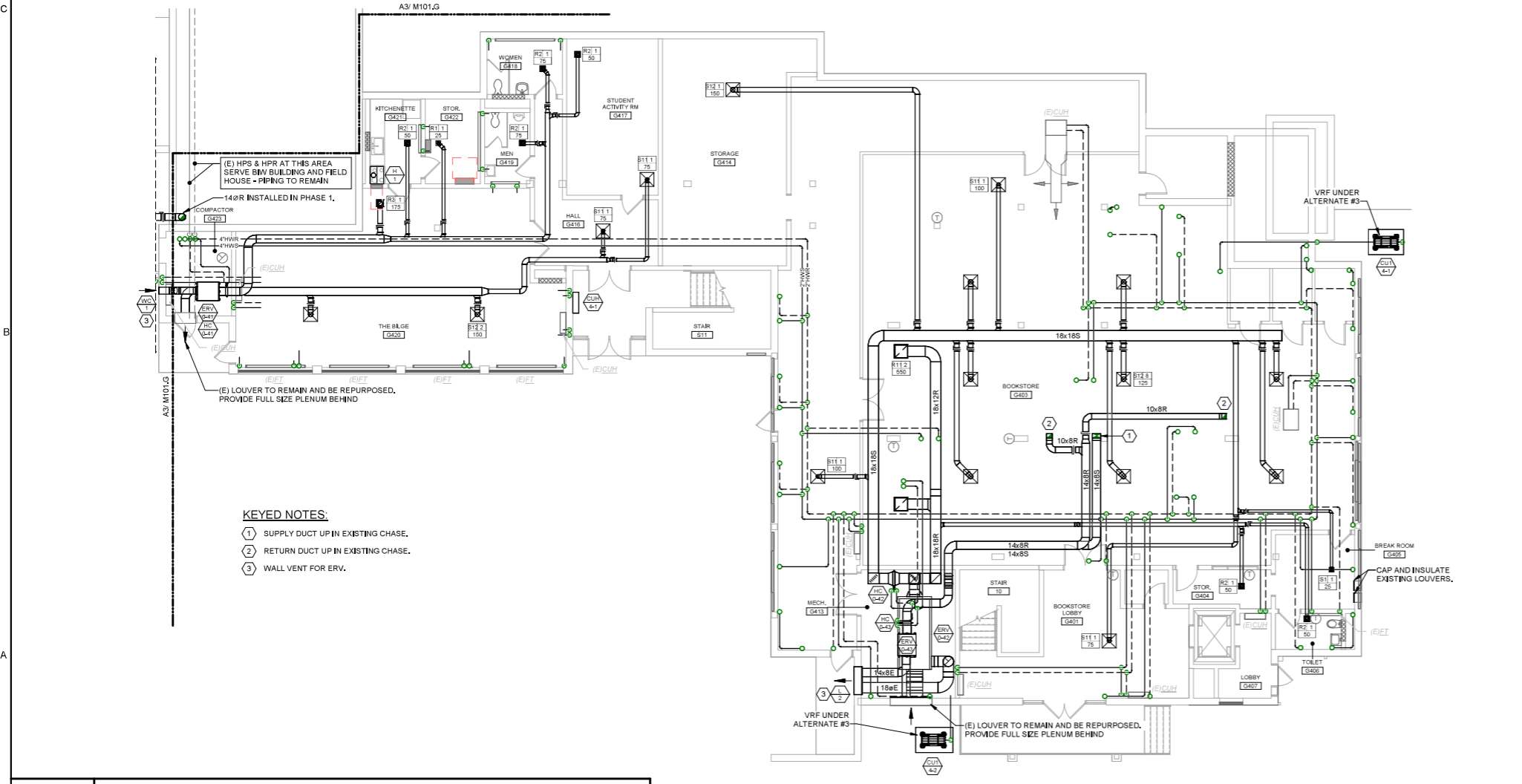
SHEET  
**M104.G**



**DEMOLITION KEYED NOTES:**

- 1 EXISTING HWS/R UP.
- 2 EXISTING HWS RISER IN CHASE.
- 3 EXISTING HWR RISER IN CHASE.
- 4 REMOVE (E) FIN TUBE.
- 5 REMOVE (E) CUH.
- 6 EXISTING PIPING LOCATED IN EXTERIOR SOFFIT, COORDINATE WORK WITH ARCHITECTURAL DIVISIONS AND REMOVAL OF SOFFIT.
- 7 EXISTING SUPPLY DUCT RISER IN CHASE TO BE REMOVED.
- 8 EXISTING EXHAUST DUCT RISER IN CHASE TO BE REMOVED.
- 9 REMOVE (E) UNIT VENTILATOR.

C6 PHASE 4 GROUND FLOOR MECHANICAL DEMOLITION PLAN



**KEYED NOTES:**

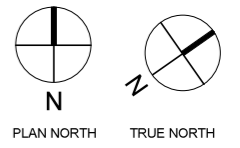
- 1 SUPPLY DUCT UP IN EXISTING CHASE.
- 2 RETURN DUCT UP IN EXISTING CHASE.
- 3 WALL VENT FOR ERV.

**GENERAL MECHANICAL NOTE:**

UNLESS OTHERWISE NOTED, ALL EXISTING MECHANICAL PIPING WITHIN THE BUILDING INCLUDING HWS, HWR, LPS, LPR, MPS, & MPR IS TO BE REMOVED, HWS & HWR PIPING IS TO BE REPLACED WITH NEW. REFER TO DEMOLITION PLANS FOR APPROXIMATE PIPING LAYOUT. EXISTING HOT WATER EQUIPMENT SHALL REMAIN FOR RE-USE, EXCEPT WHERE NOTED FOR REPLACEMENT, PROVIDE NEW CONTROL VALVES AND CONNECT NEW PIPING TO EXISTING EQUIPMENT.

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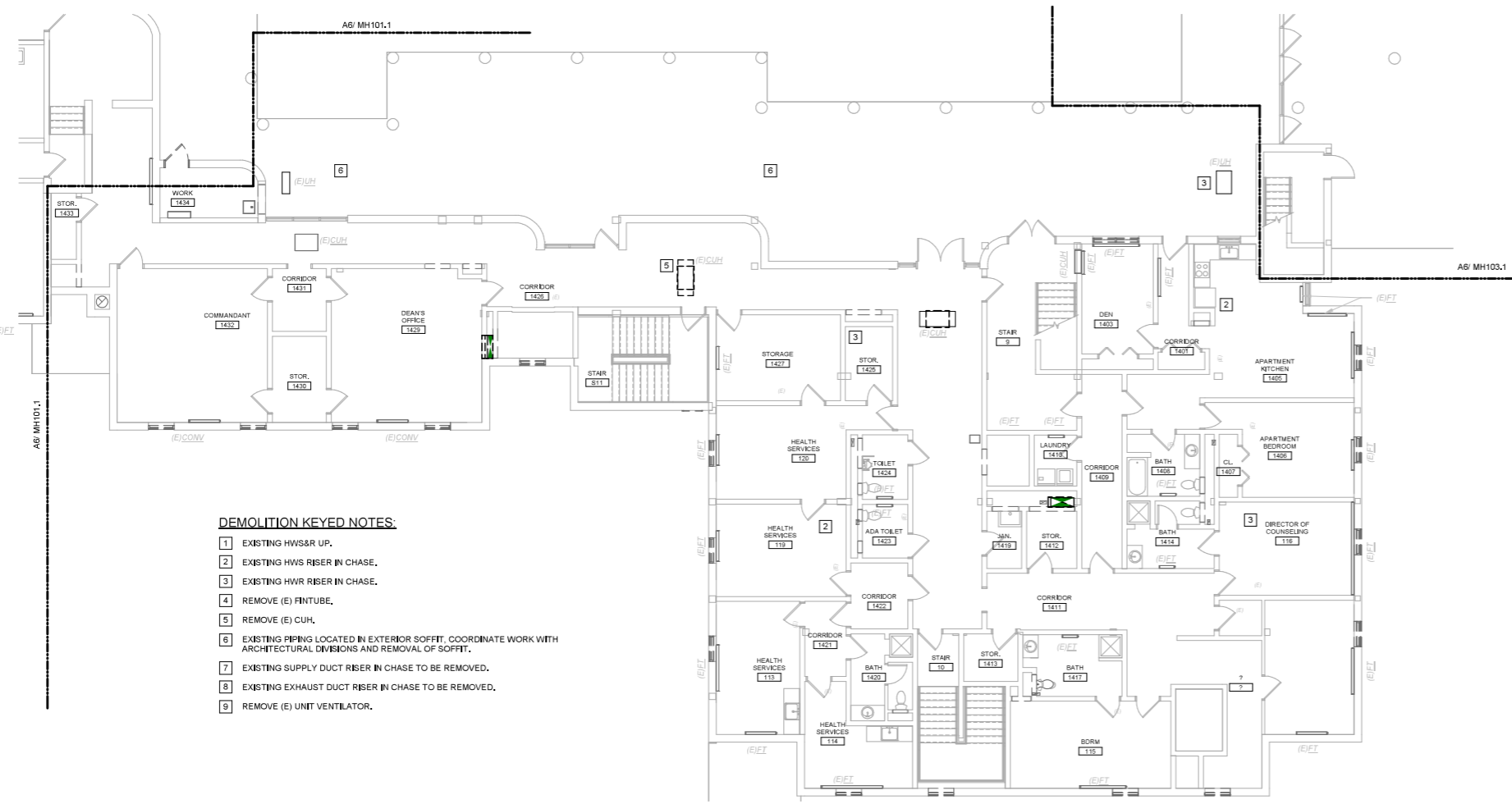
A6 PHASE 4 GROUND FLOOR MECHANICAL PLAN

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PHASE 4 FIRST FLOOR MECHANICAL DUCTWORK DEMOLITION PLAN



**DEMOLITION KEYED NOTES:**

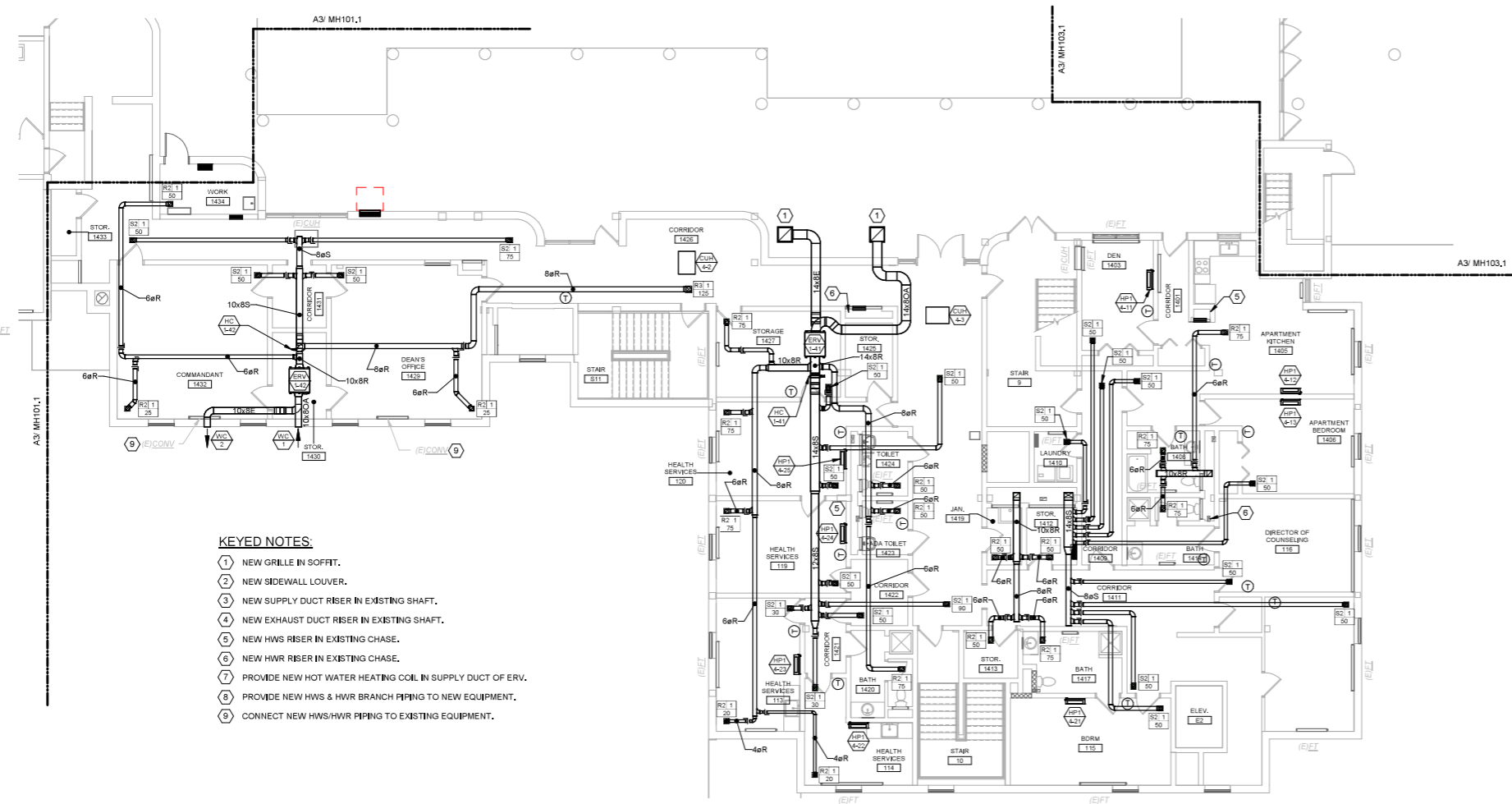
- 1 EXISTING HWIS&R UP.
- 2 EXISTING HWS RISER IN CHASE.
- 3 EXISTING HWR RISER IN CHASE.
- 4 REMOVE (E) FIN TUBE.
- 5 REMOVE (E) CUH.
- 6 EXISTING PIPING LOCATED IN EXTERIOR SOFFIT. COORDINATE WORK WITH ARCHITECTURAL DIVISIONS AND REMOVAL OF SOFFIT.
- 7 EXISTING SUPPLY DUCT RISER IN CHASE TO BE REMOVED.
- 8 EXISTING EXHAUST DUCT RISER IN CHASE TO BE REMOVED.
- 9 REMOVE (E) UNIT VENTILATOR.

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PHASE 4 FIRST FLOOR MECHANICAL DUCTWORK PLAN



**KEYED NOTES:**

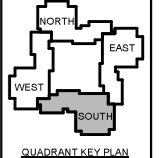
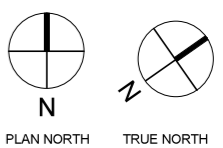
- 1 NEW GRILLE IN SOFFIT.
- 2 NEW SIDEWALL LOUVER.
- 3 NEW SUPPLY DUCT RISER IN EXISTING SHAFT.
- 4 NEW EXHAUST DUCT RISER IN EXISTING SHAFT.
- 5 NEW HWS RISER IN EXISTING CHASE.
- 6 NEW HWR RISER IN EXISTING CHASE.
- 7 PROVIDE NEW HOT WATER HEATING COIL IN SUPPLY DUCT OF ERV.
- 8 PROVIDE NEW HWS & HWR BRANCH PIPING TO NEW EQUIPMENT.
- 9 CONNECT NEW HWS/HWR PIPING TO EXISTING EQUIPMENT.

**GENERAL MECHANICAL NOTE:**

UNLESS OTHERWISE NOTED, ALL EXISTING MECHANICAL PIPING WITHIN THE BUILDING INCLUDING HWS, HWR, LPS, LPR, MPS, & MPR IS TO BE REMOVED. HWS & HWR PIPING IS TO BE REPLACED WITH NEW. REFER TO DEMOLITION PLANS FOR APPROXIMATE PIPING LAYOUT. EXISTING HOT WATER EQUIPMENT SHALL REMAIN FOR RE-USE, EXCEPT WHERE NOTED FOR REPLACEMENT. PROVIDE NEW CONTROL VALVES AND CONNECT NEW PIPING TO EXISTING EQUIPMENT.

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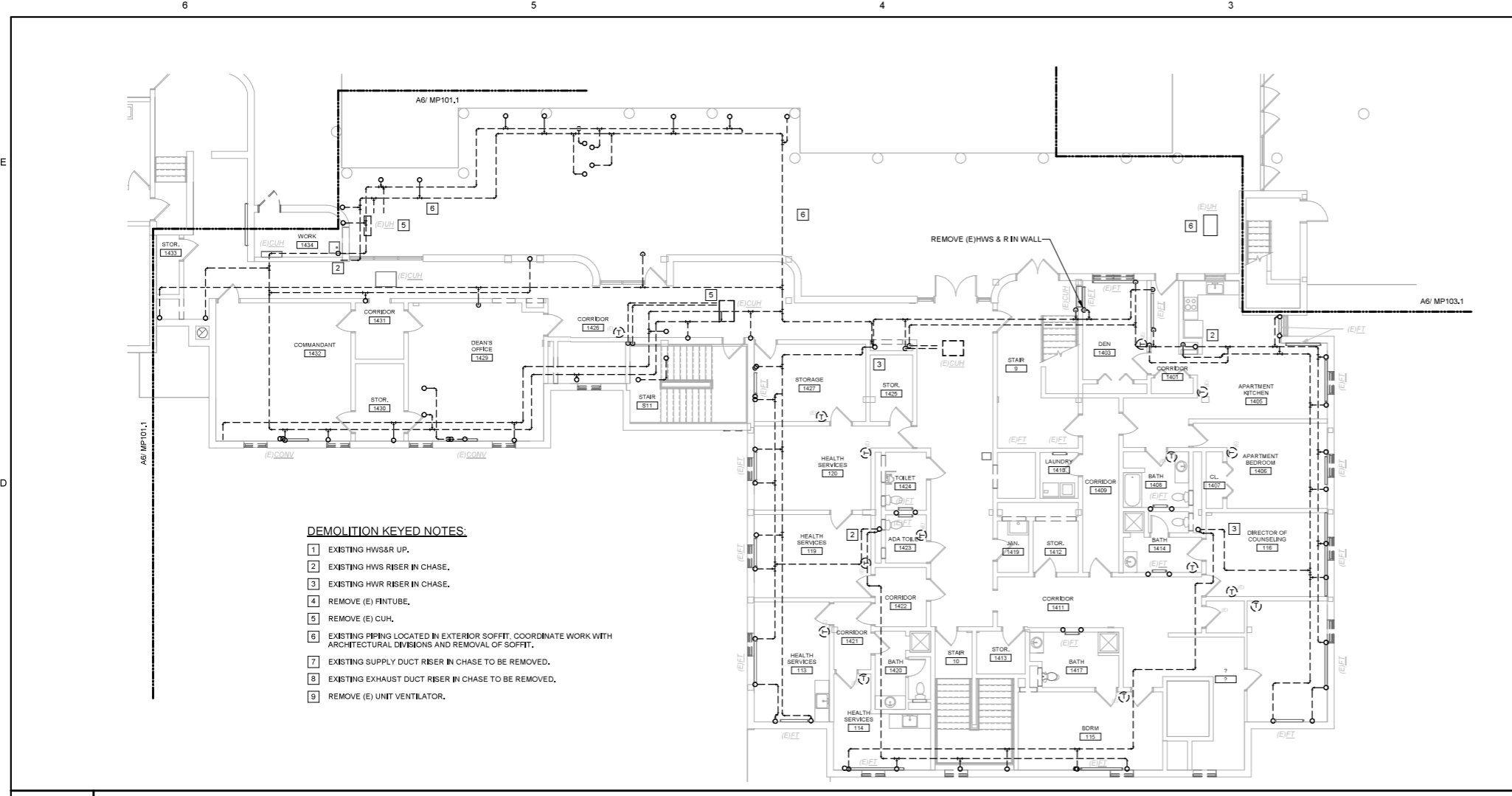
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TITLE PHASE 4 FIRST FLOOR MECHANICAL DUCTWORK PLANS

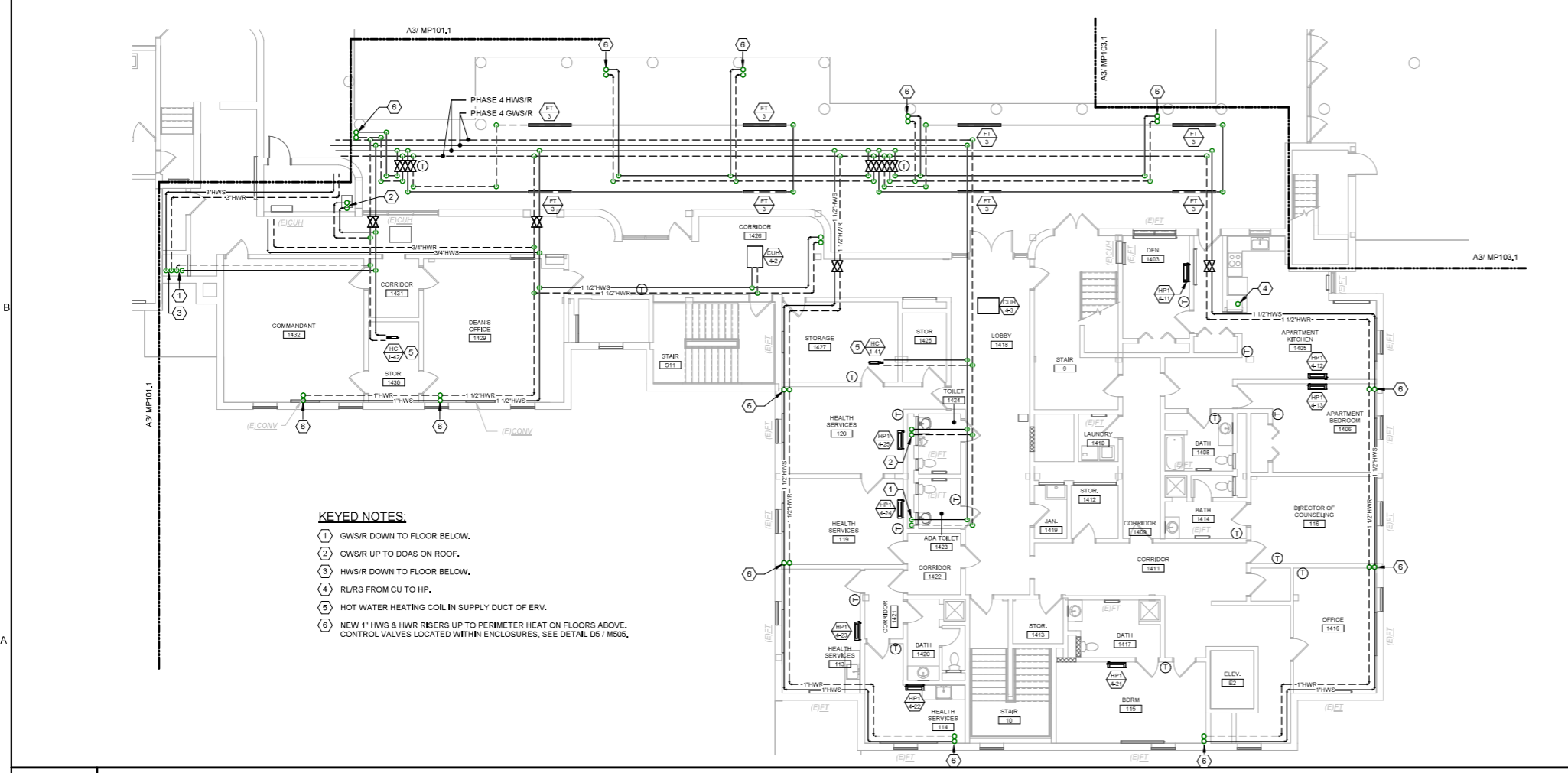
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MH104.1



- DEMOLITION KEYED NOTES:**
- 1 EXISTING HWS&R UP.
  - 2 EXISTING HWS RISER IN CHASE.
  - 3 EXISTING HWR RISER IN CHASE.
  - 4 REMOVE (E) FINTUBE.
  - 5 REMOVE (E) CUH.
  - 6 EXISTING PIPING LOCATED IN EXTERIOR SOFFIT. COORDINATE WORK WITH ARCHITECTURAL DIVISIONS AND REMOVAL OF SOFFIT.
  - 7 EXISTING SUPPLY DUCT RISER IN CHASE TO BE REMOVED.
  - 8 EXISTING EXHAUST DUCT RISER IN CHASE TO BE REMOVED.
  - 9 REMOVE (E) UNIT VENTILATOR.

C6 FIRST FLOOR MECHANICAL PIPING DEMOLITION PLAN  
1/8" = 1'-0"



- KEYED NOTES:**
- 1 GWS/R DOWN TO FLOOR BELOW.
  - 2 GWS/R UP TO DOAS ON ROOF.
  - 3 HWS/R DOWN TO FLOOR BELOW.
  - 4 RURS FROM CU TO HP.
  - 5 HOT WATER HEATING COIL IN SUPPLY DUCT OF ERV.
  - 6 NEW 1" HWS & HWR RISERS UP TO PERIMETER HEAT ON FLOORS ABOVE. CONTROL VALVES LOCATED WITHIN ENCLOSURES. SEE DETAIL D5 / M505.

A6 FIRST FLOOR MECHANICAL PIPING PLAN  
1/8" = 1'-0"

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QUADRANT KEY PLAN

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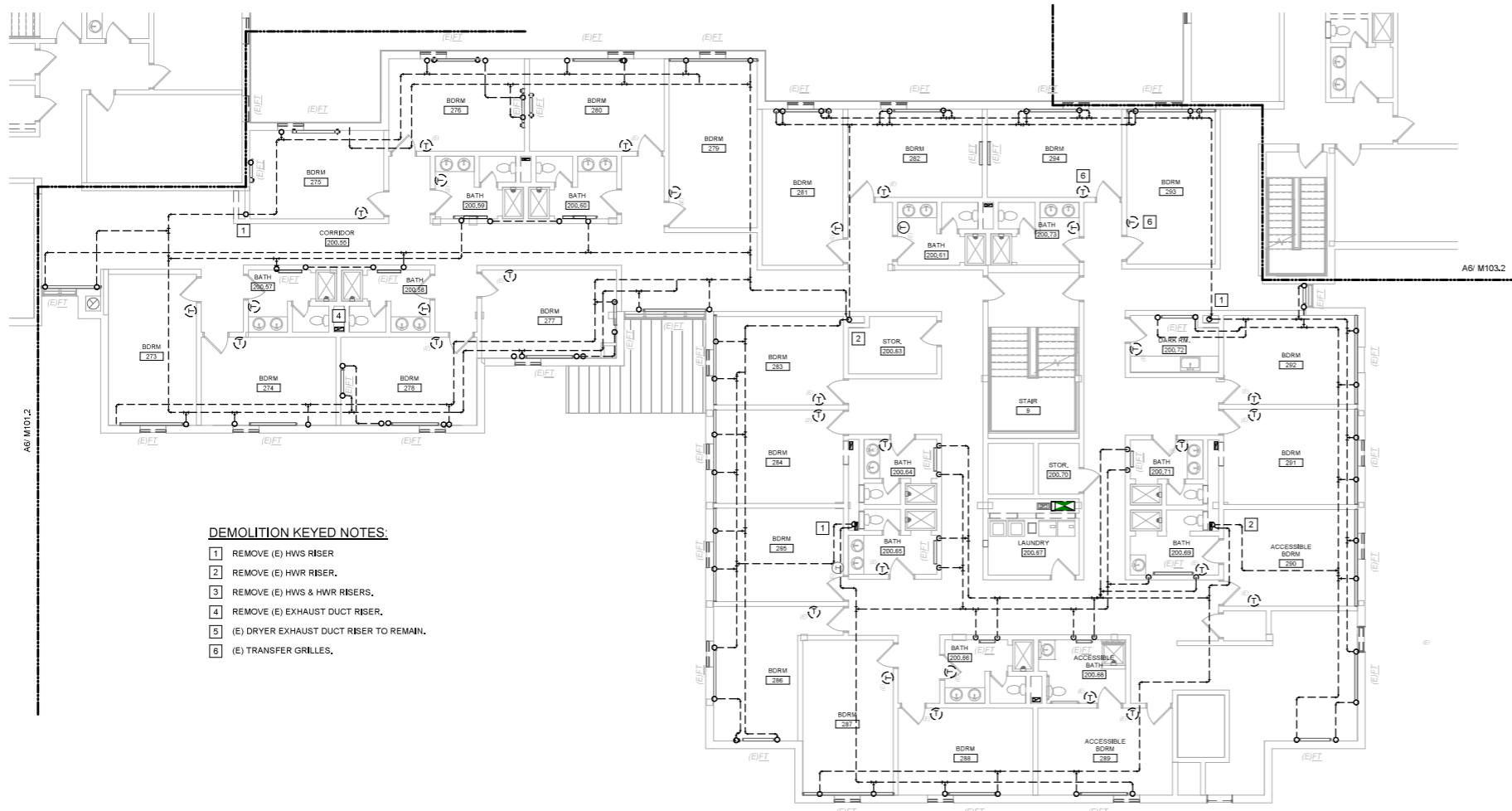
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TITLE  
PHASE 4 FIRST FLOOR MECHANICAL PIPING PLANS

SHEET  
**MP104.1**

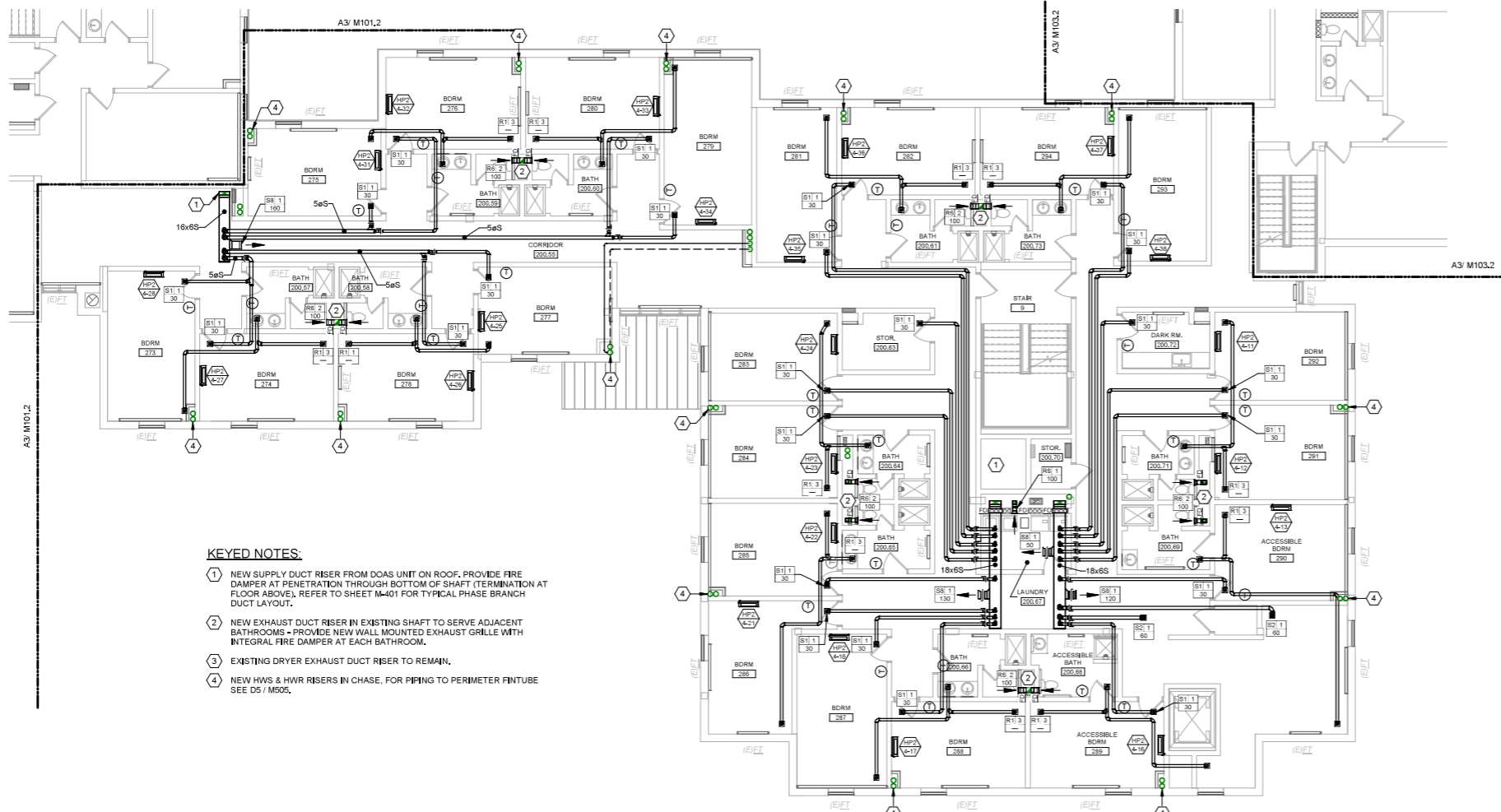




**DEMOLITION KEYED NOTES:**

- 1 REMOVE (E) HWS RISER.
- 2 REMOVE (E) HWR RISER.
- 3 REMOVE (E) HWS & HWR RISERS.
- 4 REMOVE (E) EXHAUST DUCT RISER.
- 5 (E) DRYER EXHAUST DUCT RISER TO REMAIN.
- 6 (E) TRANSFER GRILLES.

C6 PHASE 4 SECOND FLOOR MECHANICAL DEMOLITION PLAN



**KEYED NOTES:**

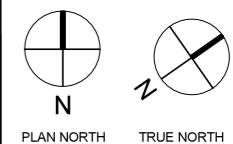
- 1 NEW SUPPLY DUCT RISER FROM DOAS UNIT ON ROOF. PROVIDE FIRE DAMPER AT PENETRATION THROUGH BOTTOM OF SHAFT (TERMINATION AT FLOOR ABOVE). REFER TO SHEET M-401 FOR TYPICAL PHASE BRANCH DUCT LAYOUT.
- 2 NEW EXHAUST DUCT RISER IN EXISTING SHAFT TO SERVE ADJACENT BATHROOMS - PROVIDE NEW WALL MOUNTED EXHAUST GRILLE WITH INTEGRAL FIRE DAMPER AT EACH BATHROOM.
- 3 EXISTING DRYER EXHAUST DUCT RISER TO REMAIN.
- 4 NEW HWS & HWR RISERS IN CHASE, FOR PIPING TO PERIMETER FINITURE SEE D5 / M105.

**GENERAL MECHANICAL NOTE:**

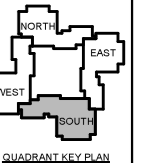
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A6 PHASE 4 SECOND FLOOR MECHANICAL PLAN



No.	Date	Description
Revision Schedule		

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TITLE PHASE 4 SECOND FLOOR MECHANICAL PLANS

SHEET

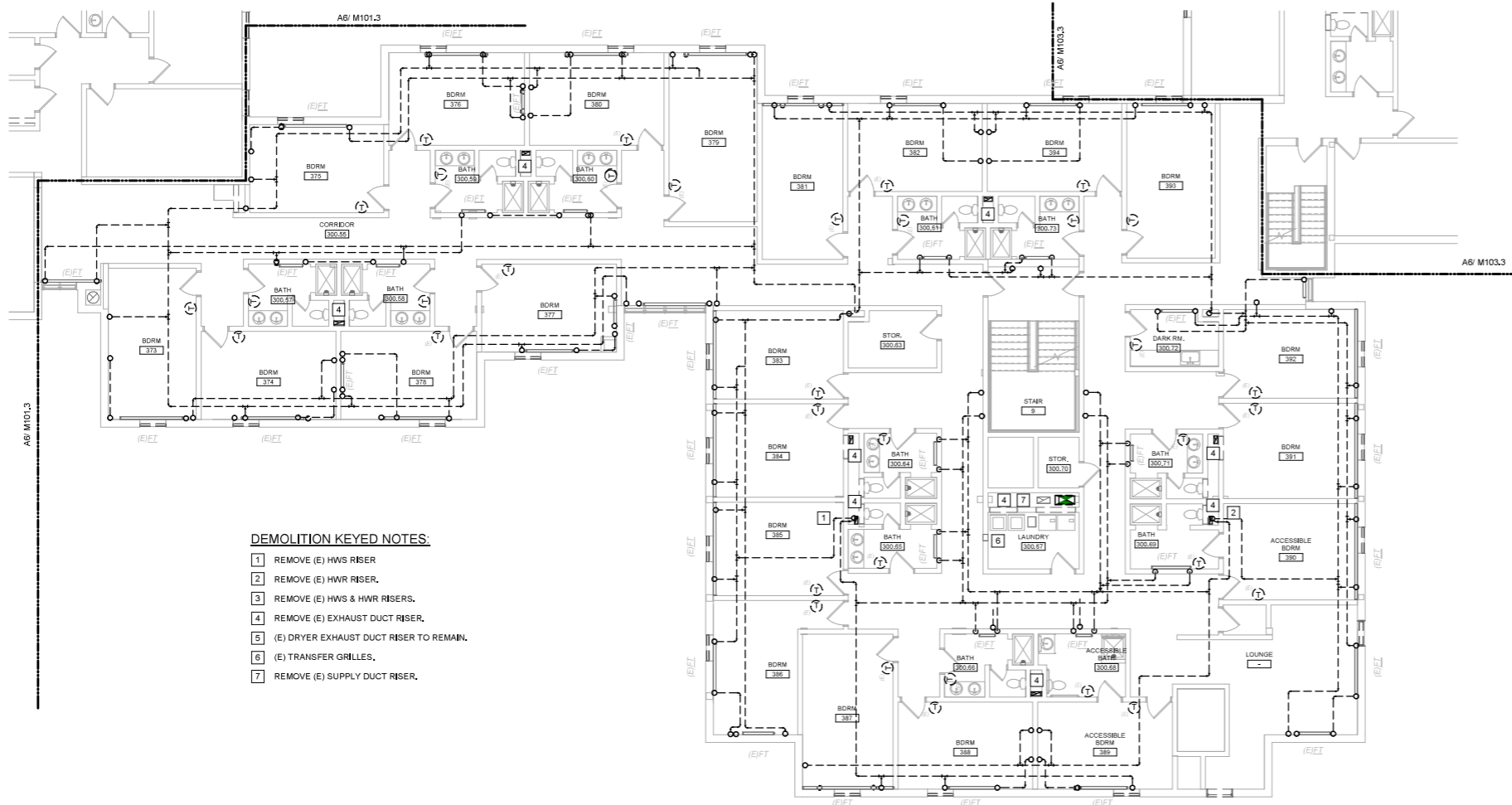
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C6

PHASE 4 THIRD FLOOR MECHANICAL DEMOLITION PLAN

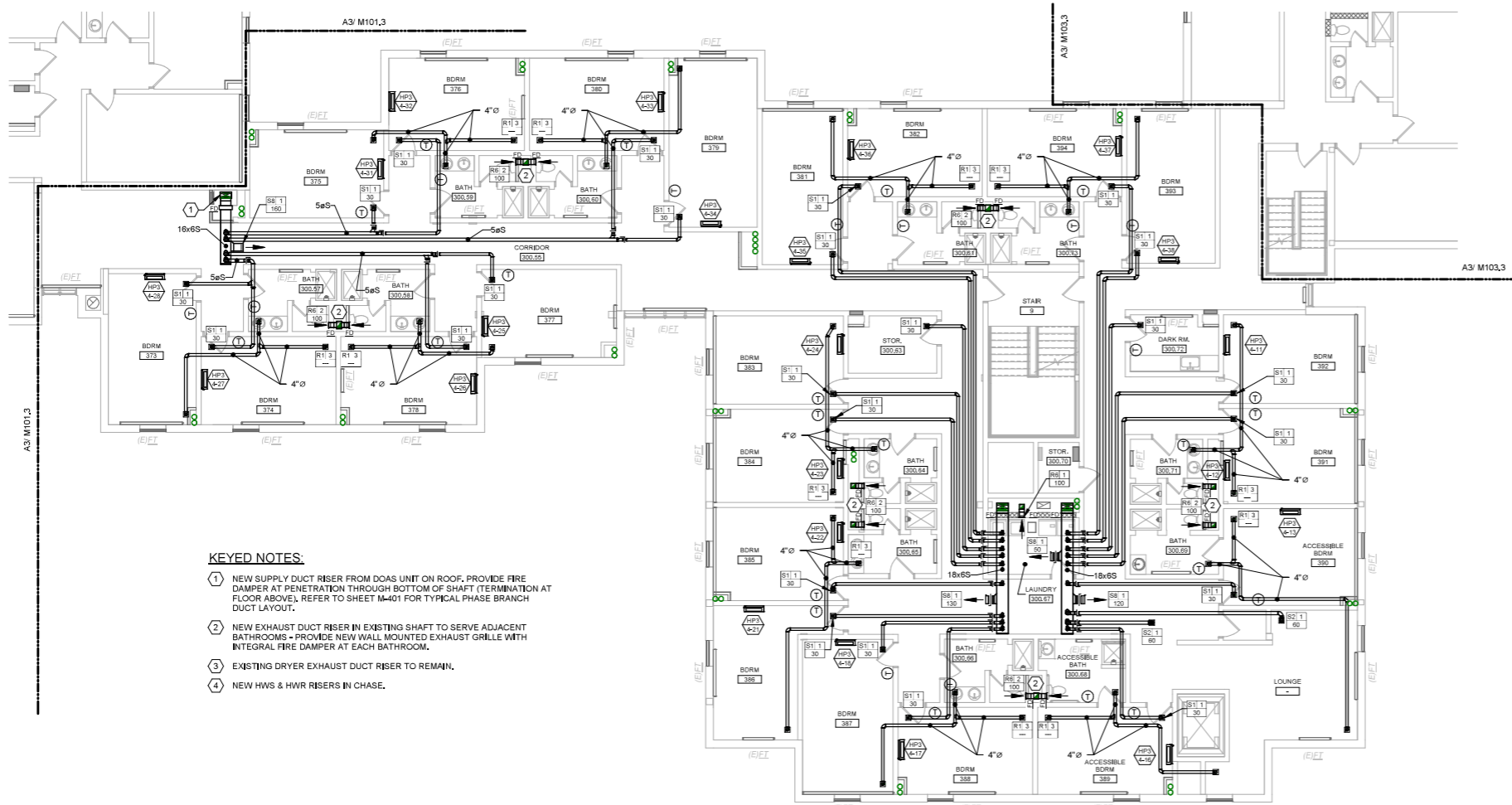


**DEMOLITION KEYED NOTES:**

- 1 REMOVE (E) HWS RISER
- 2 REMOVE (E) HWR RISER,
- 3 REMOVE (E) HWS & HWR RISERS,
- 4 REMOVE (E) EXHAUST DUCT RISER,
- 5 (E) DRYER EXHAUST DUCT RISER TO REMAIN,
- 6 (E) TRANSFER GRILLES,
- 7 REMOVE (E) SUPPLY DUCT RISER,

B

A



**KEYED NOTES:**

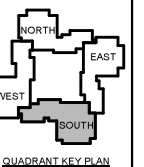
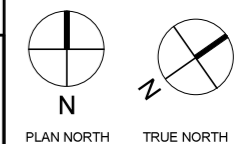
- 1 NEW SUPPLY DUCT RISER FROM DOAS UNIT ON ROOF. PROVIDE FIRE DAMPER AT PENETRATION THROUGH BOTTOM OF SHAFT (TERMINATION AT FLOOR ABOVE). REFER TO SHEET M-401 FOR TYPICAL PHASE BRANCH DUCT LAYOUT.
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- 3 EXISTING DRYER EXHAUST DUCT RISER TO REMAIN.
- 4 NEW HWS & HWR RISERS IN CHASE.

**GENERAL MECHANICAL NOTE:**

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No.	Date	Description
Revision Schedule		

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075982

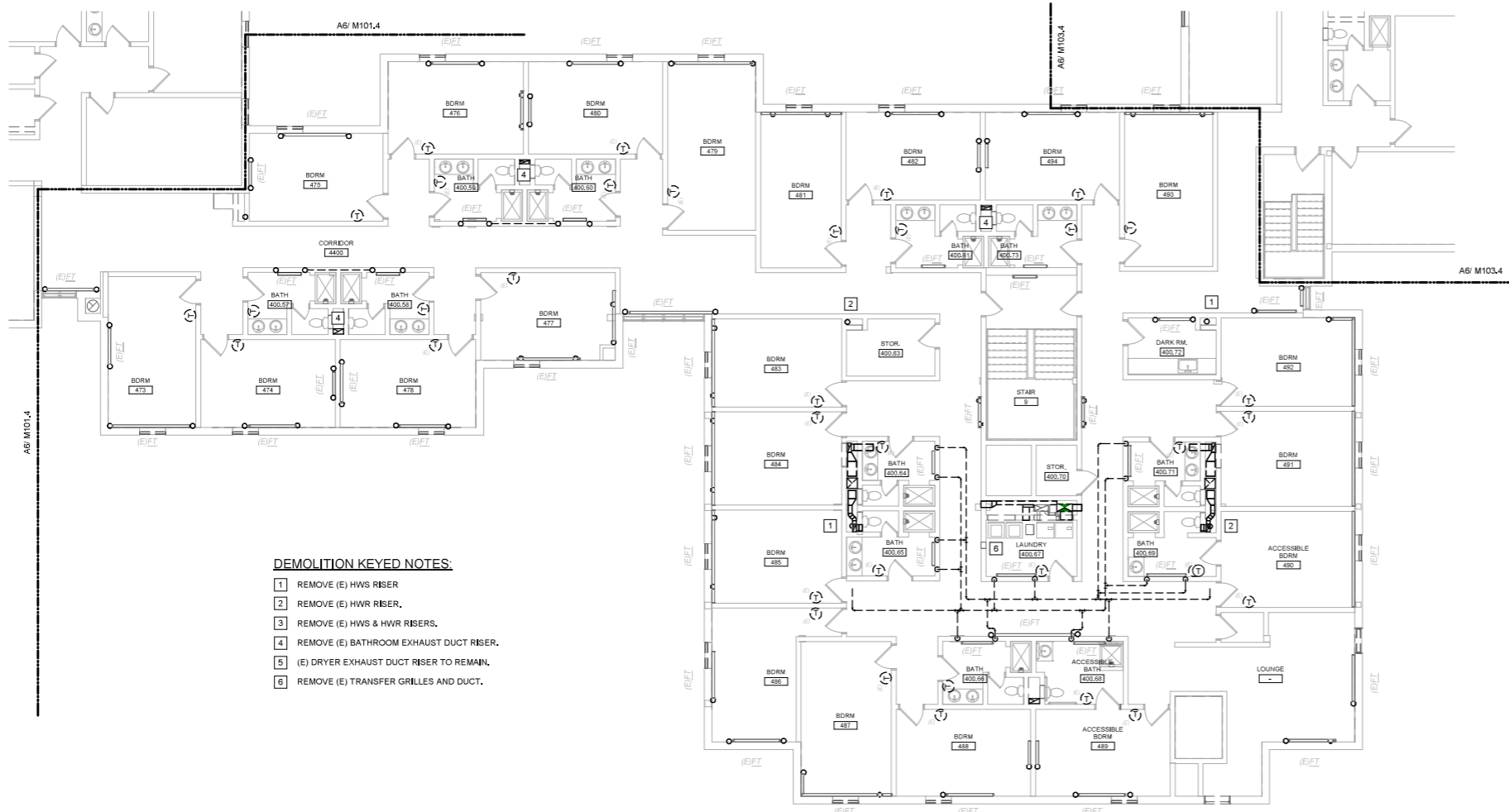
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11/22/2023

TITLE  
PHASE 4 THIRD FLOOR MECHANICAL PLANS

SHEET  
**M104.3**

A6

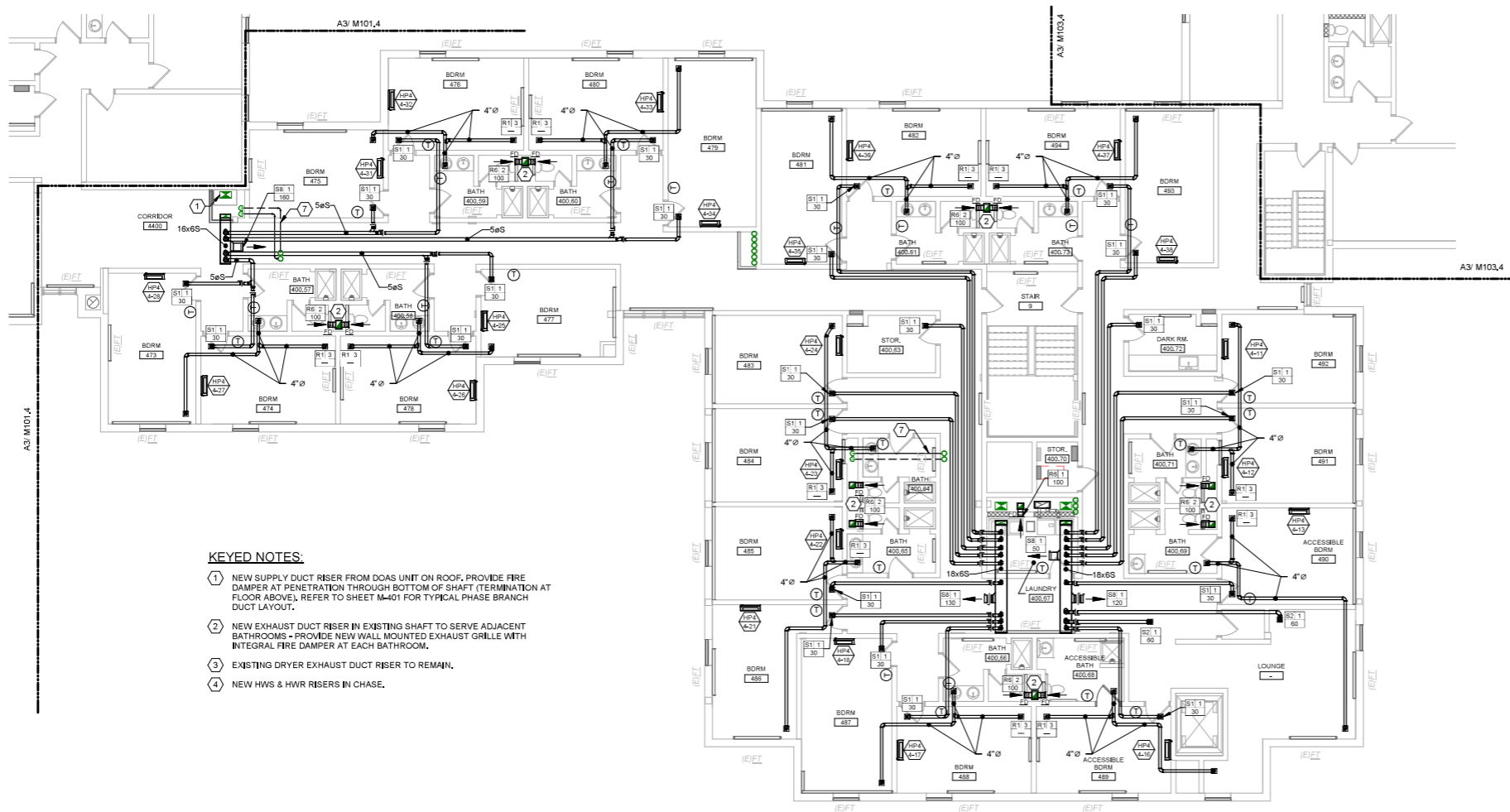
PHASE 4 THIRD FLOOR MECHANICAL PLAN



**DEMOLITION KEYED NOTES:**

- 1 REMOVE (E) HWS RISER.
- 2 REMOVE (E) HWR RISER.
- 3 REMOVE (E) HWS & HWR RISERS.
- 4 REMOVE (E) BATHROOM EXHAUST DUCT RISER.
- 5 (E) DRYER EXHAUST DUCT RISER TO REMAIN.
- 6 REMOVE (E) TRANSFER GRILLES AND DUCT.

C6 PHASE 4 FOURTH FLOOR MECHANICAL DEMOLITION PLAN



**KEYED NOTES:**

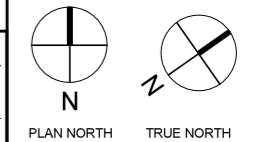
- 1 NEW SUPPLY DUCT RISER FROM DOAS UNIT ON ROOF. PROVIDE FIRE DAMPER AT PENETRATION THROUGH BOTTOM OF SHAFT (TERMINATION AT FLOOR ABOVE). REFER TO SHEET M-401 FOR TYPICAL PHASE BRANCH DUCT LAYOUT.
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- 3 EXISTING DRYER EXHAUST DUCT RISER TO REMAIN.
- 4 NEW HWS & HWR RISERS IN CHASE.

**GENERAL MECHANICAL NOTE:**

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**GENERAL PHASING NOTE:**

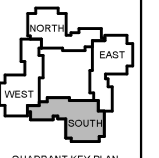
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A6 PHASE 4 FOURTH FLOOR MECHANICAL PLAN

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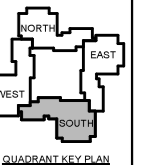
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PHASE 4 FOURTH FLOOR MECHANICAL PLANS

SHEET  
**M104.4**



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Revision Schedule		

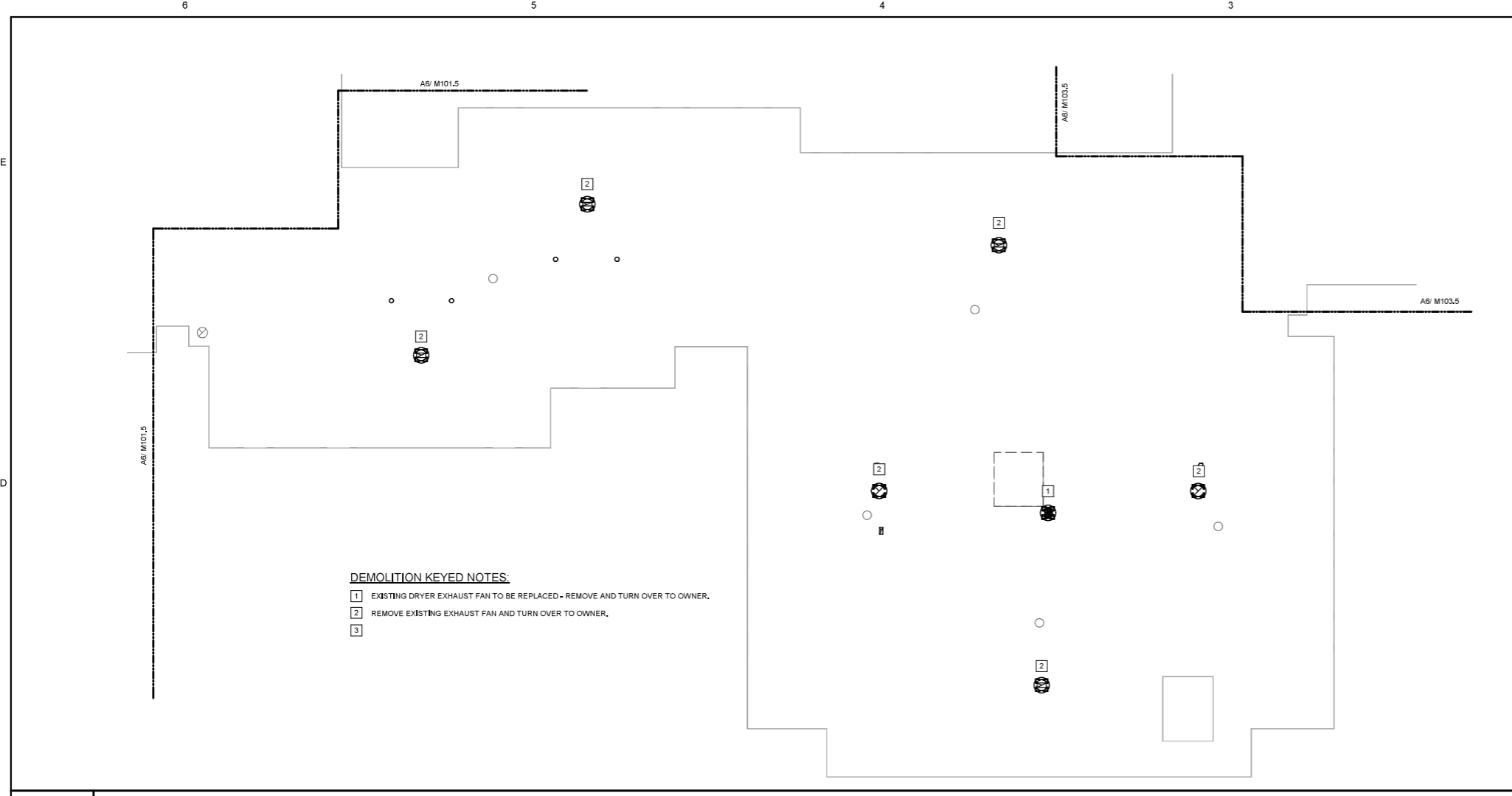
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TITLE  
PHASE 4 ROOF LEVEL MECHANICAL PLANS

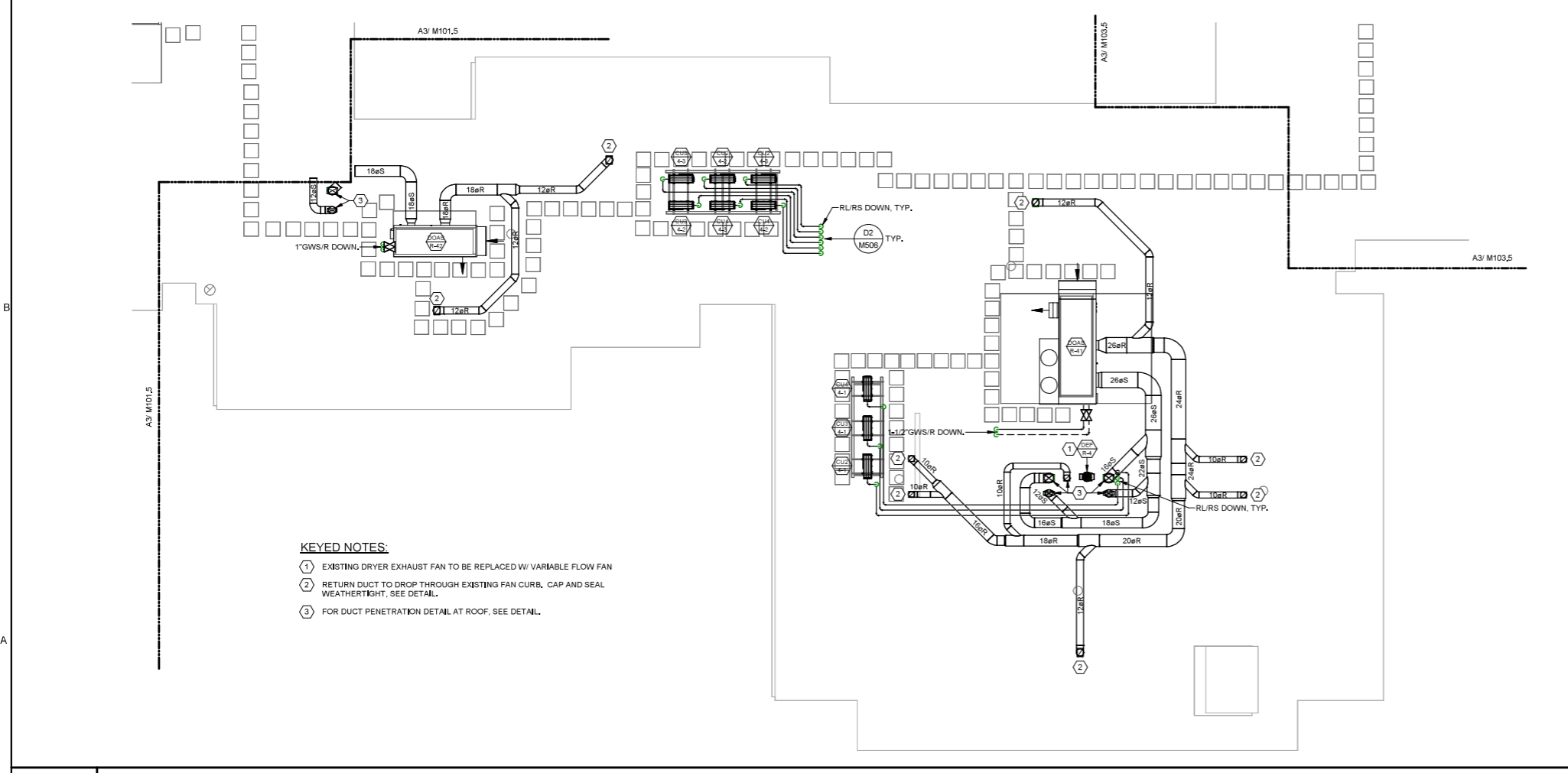
SHEET  
**M104.5**



**DEMOLITION KEYED NOTES:**

- 1 EXISTING DRYER EXHAUST FAN TO BE REPLACED - REMOVE AND TURN OVER TO OWNER.
- 2 REMOVE EXISTING EXHAUST FAN AND TURN OVER TO OWNER.
- 3

C6 PHASE 4 LEVEL ROOF MECHANICAL DEMOLITION PLAN



**KEYED NOTES:**

- 1 EXISTING DRYER EXHAUST FAN TO BE REPLACED W/ VARIABLE FLOW FAN
- 2 RETURN DUCT TO DROP THROUGH EXISTING FAN CURB, CAP AND SEAL WEATHERTIGHT, SEE DETAIL.
- 3 FOR DUCT PENETRATION DETAIL AT ROOF, SEE DETAIL.

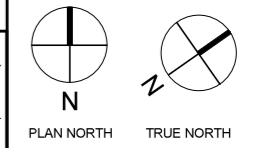
A6 PHASE 4 ROOF MECHANICAL PLAN

**GENERAL MECHANICAL NOTE:**

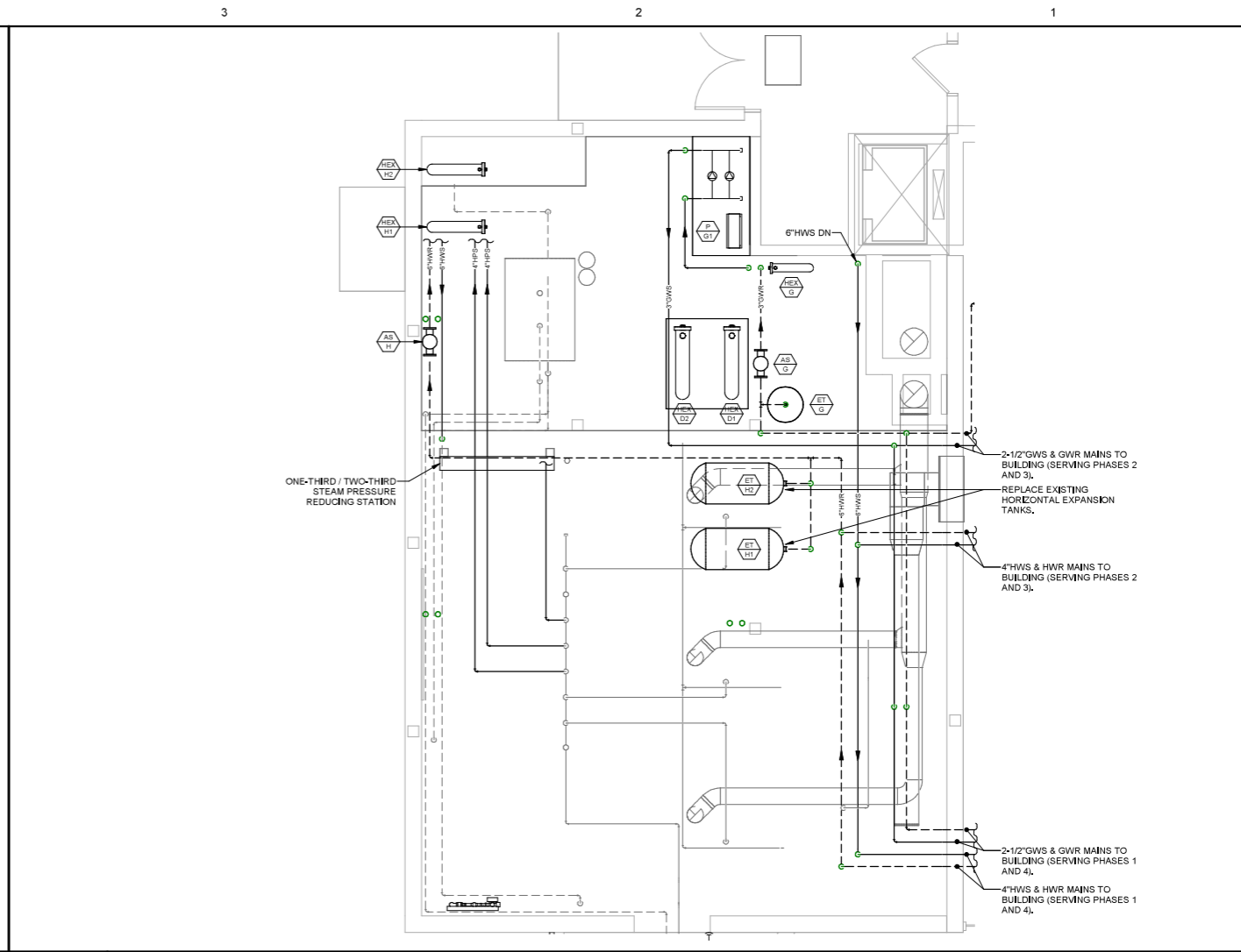
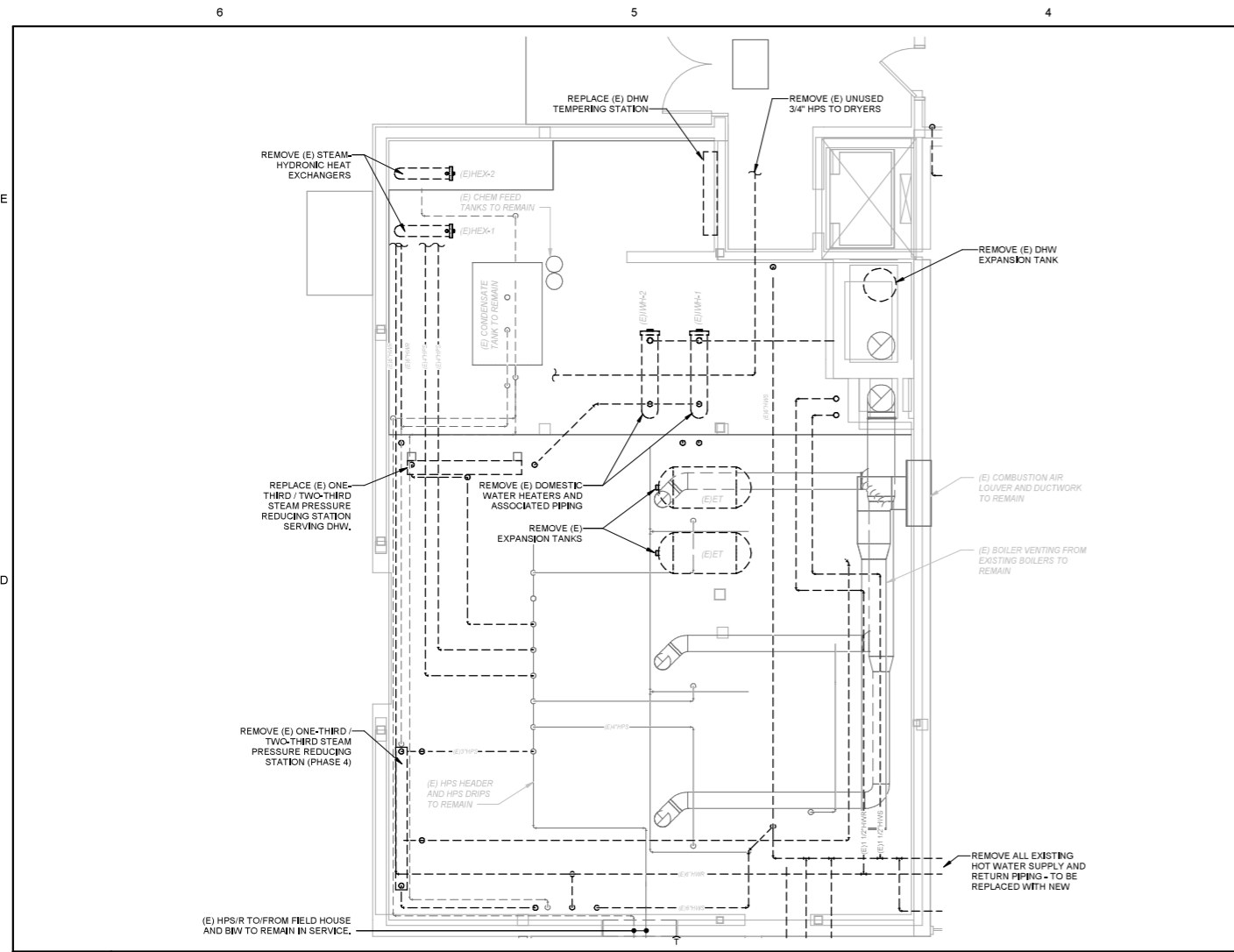
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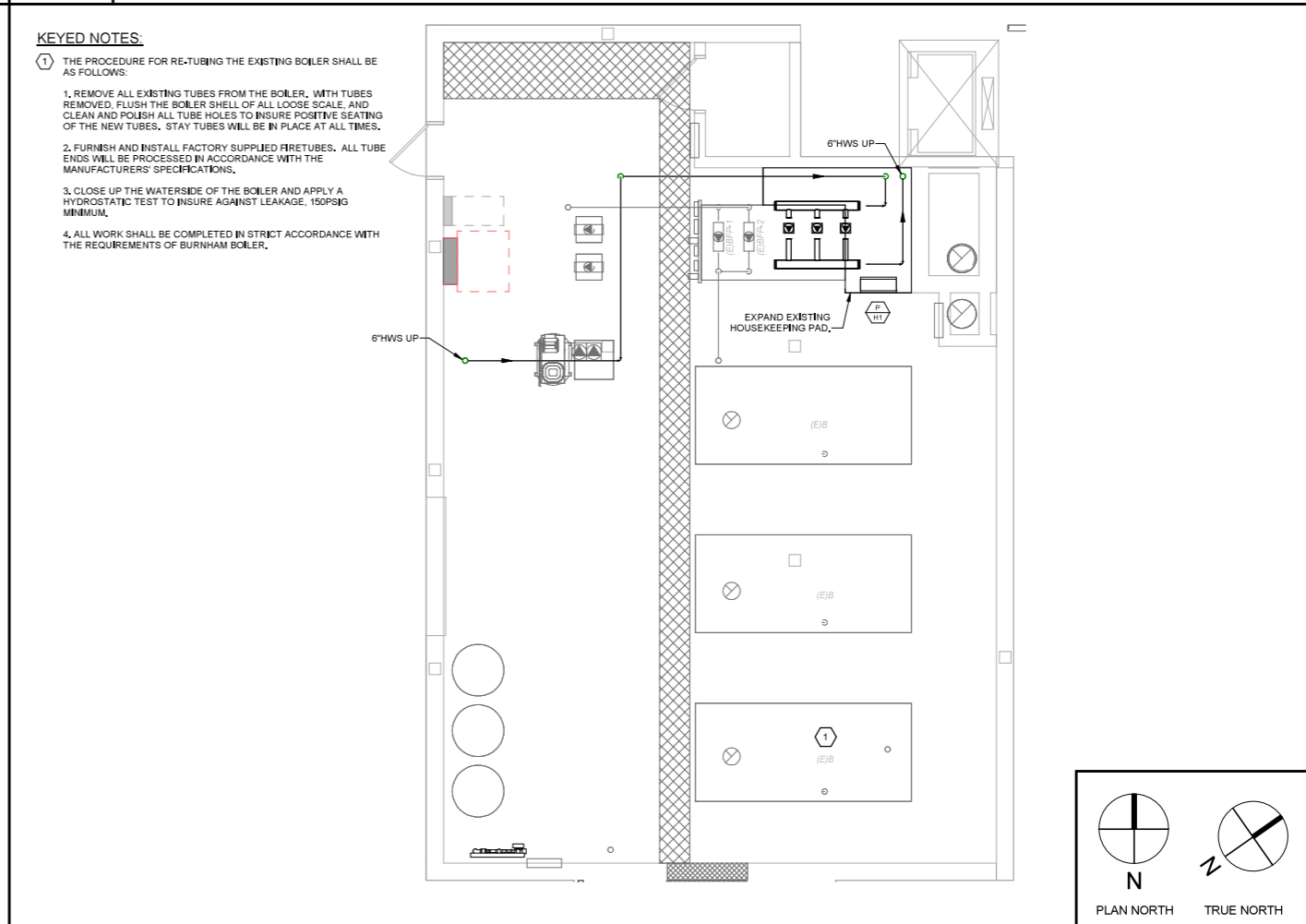
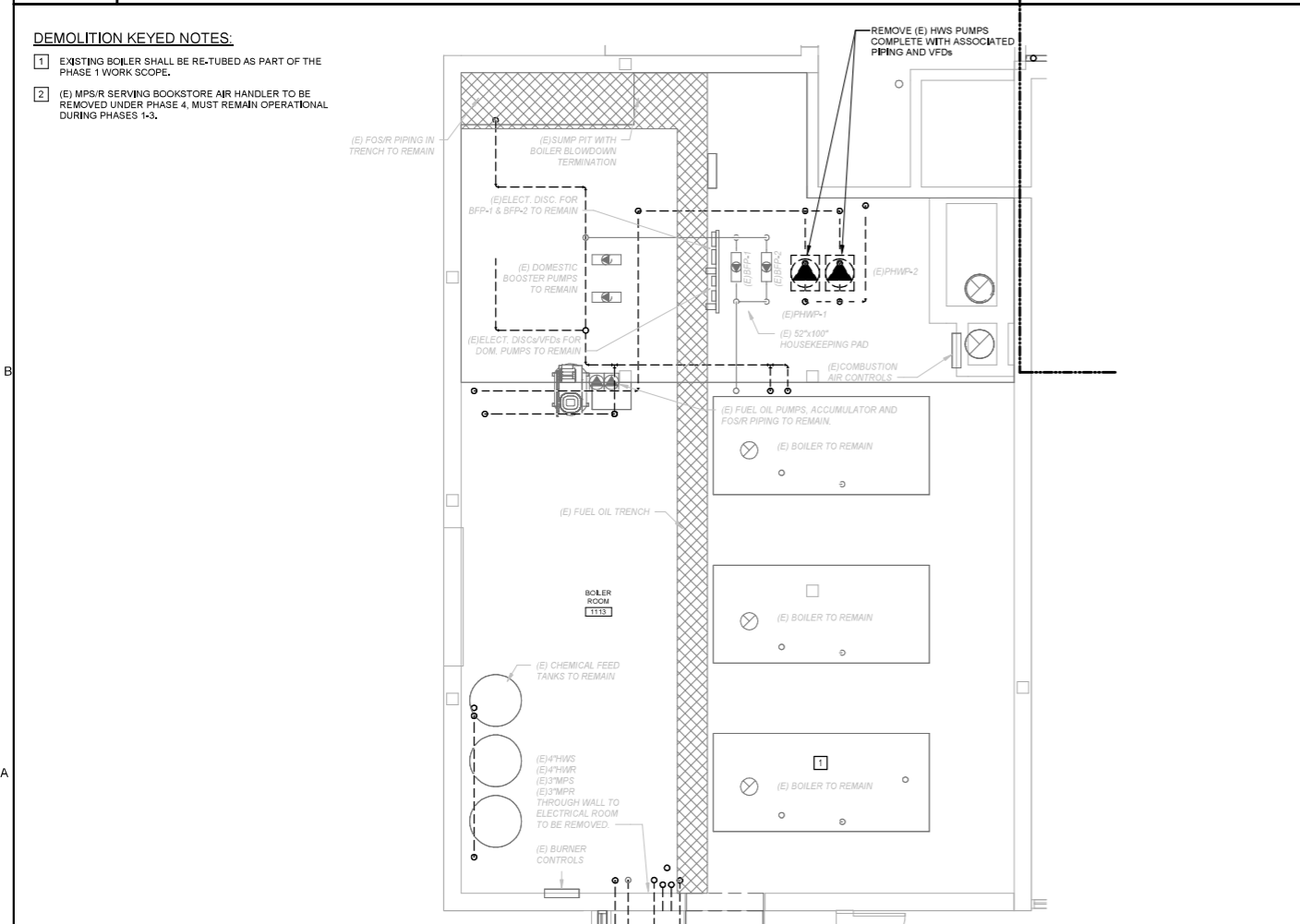






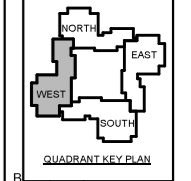
C6 BOILER ROOM MECHANICAL DEMOLITION PLAN - MEZZANINE LEVEL

C3 BOILER ROOM MECHANICAL PLAN - MEZZANINE LEVEL



A6 BOILER ROOM MECHANICAL DEMOLITION PLAN - GROUND LEVEL

A3 BOILER ROOM MECHANICAL PLAN - GROUND LEVEL



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		Revision Schedule

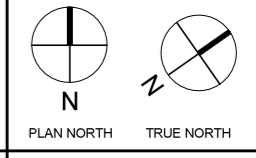
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BOILER ROOM MECHANICAL PART PLANS

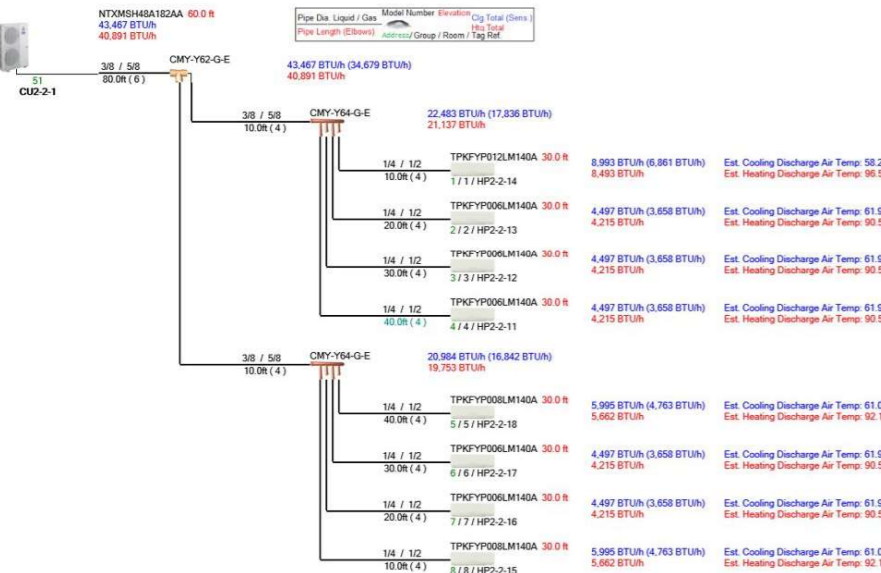
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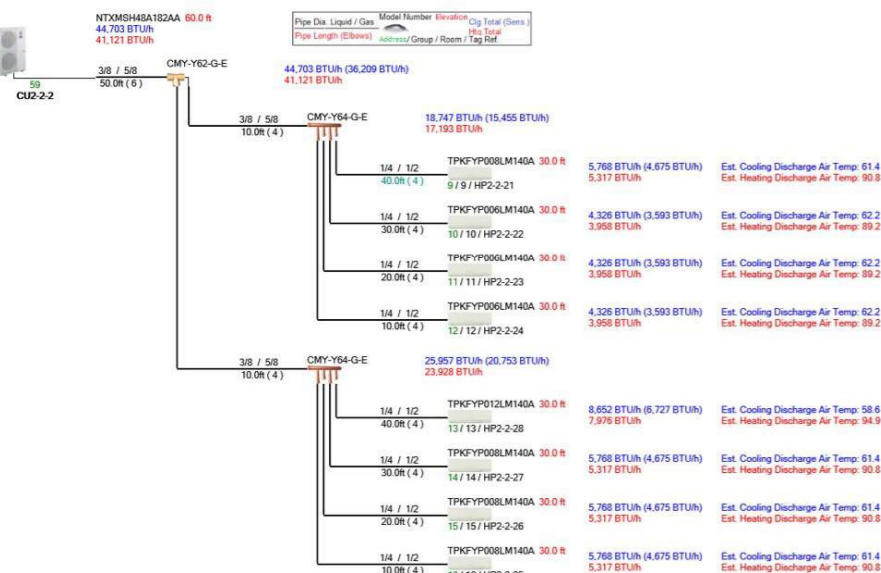
### Centralized System - Floor 2 Phase 2 : CU2-2-1

Piping Diagram Image (Design View)



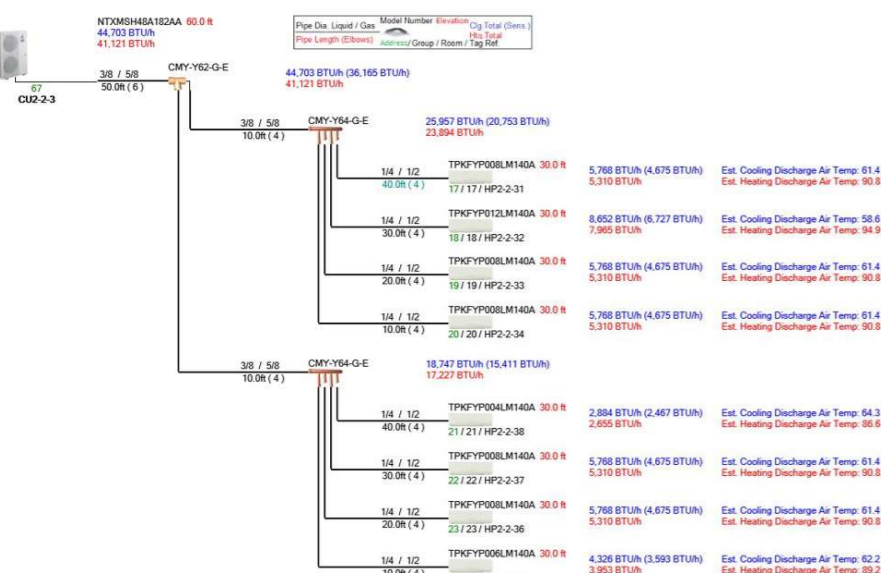
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Piping Diagram Image (Design View)



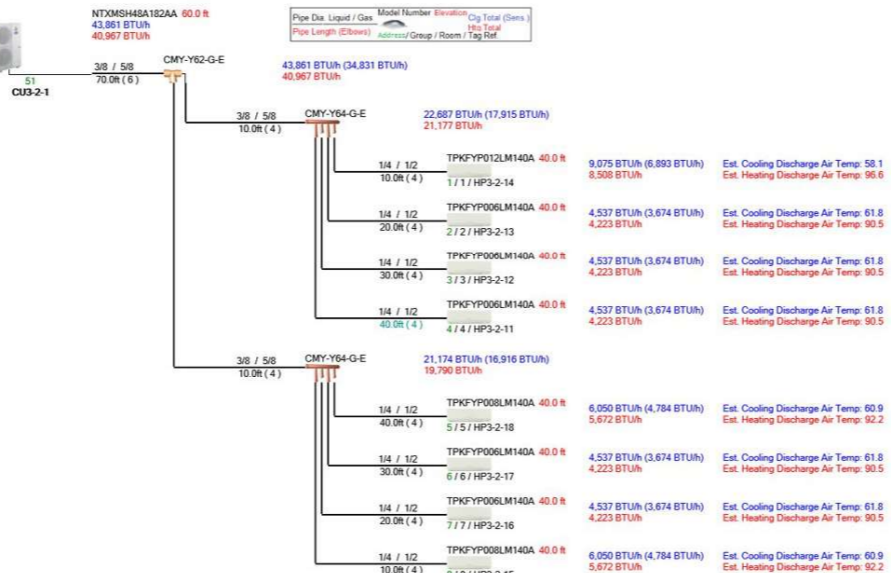
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Piping Diagram Image (Design View)



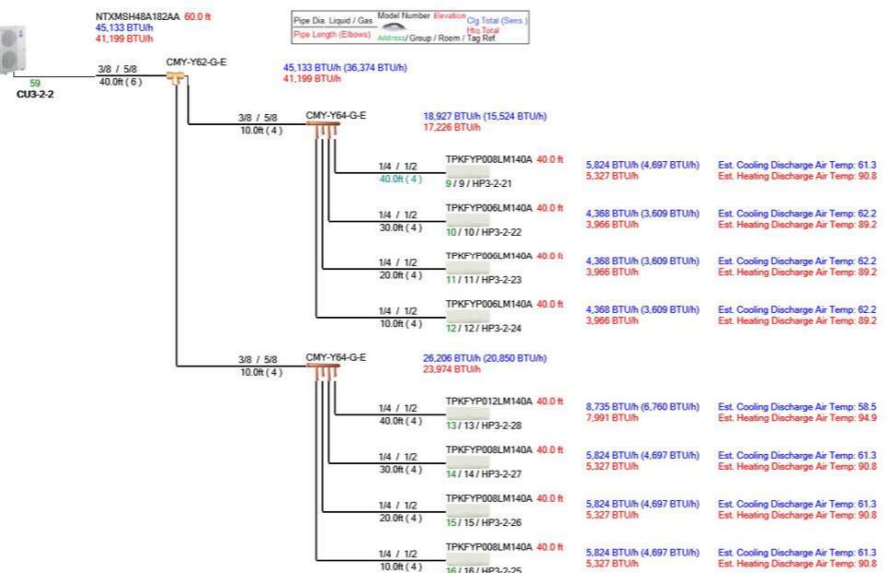
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Piping Diagram Image (Design View)



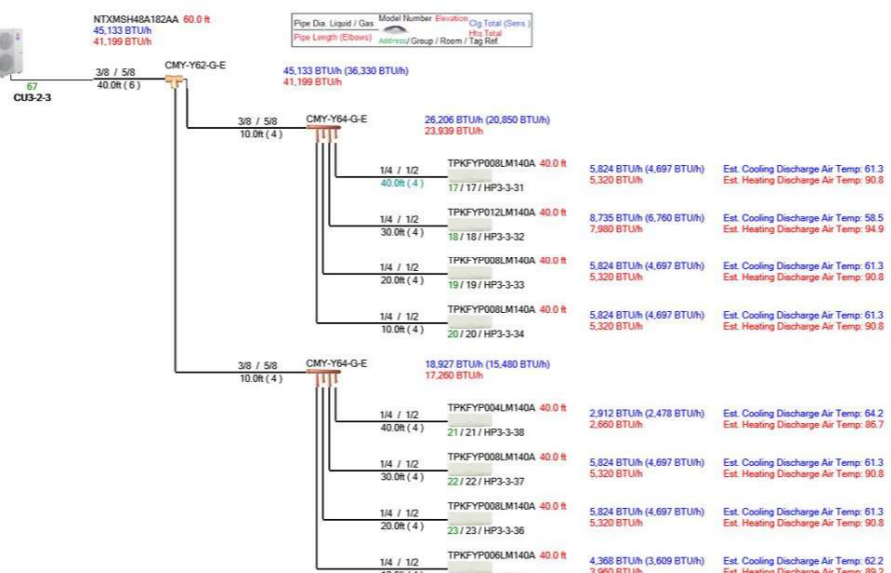
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Piping Diagram Image (Design View)



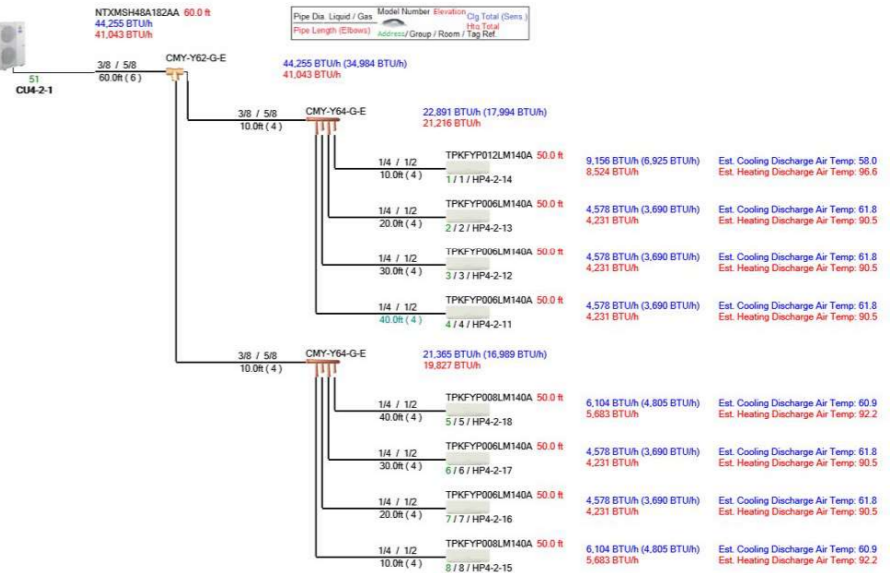
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Piping Diagram Image (Design View)



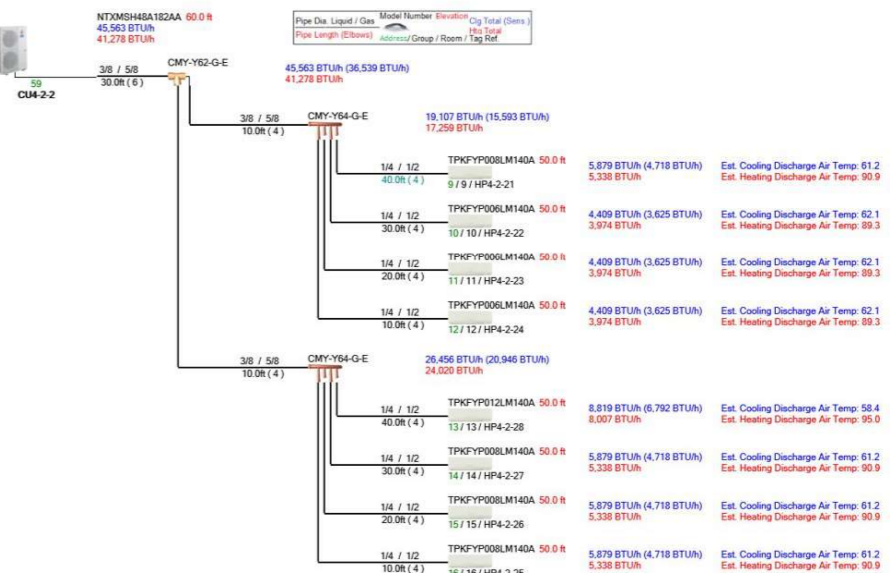
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Piping Diagram Image (Design View)



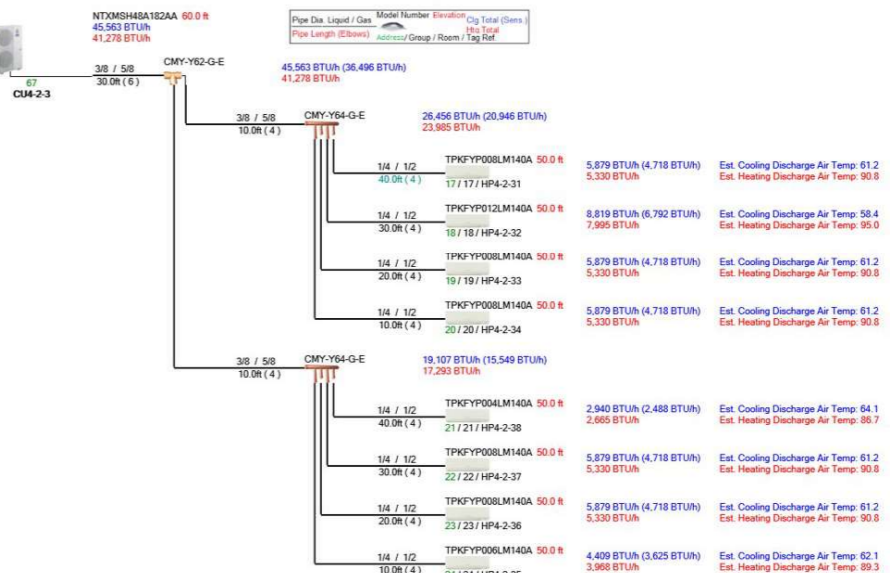
### Centralized System - Floor 4 Phase 2 : CU4-2-2

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### Centralized System - Floor 4 Phase 2 : CU4-2-3

Piping Diagram Image (Design View)



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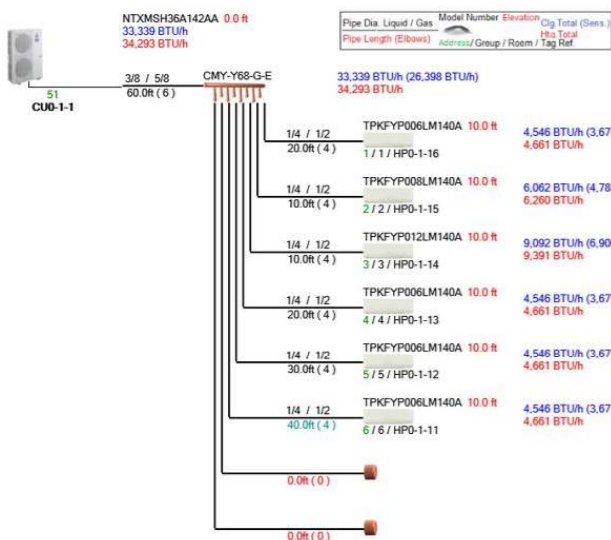
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SHEET  
M500



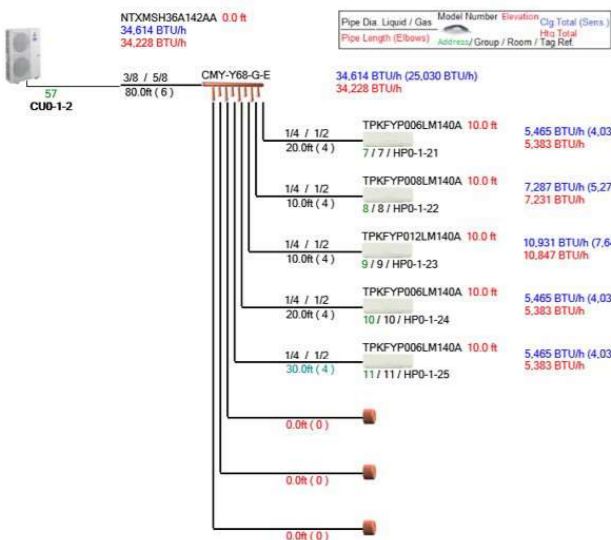
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Piping Diagram Image (Design View)



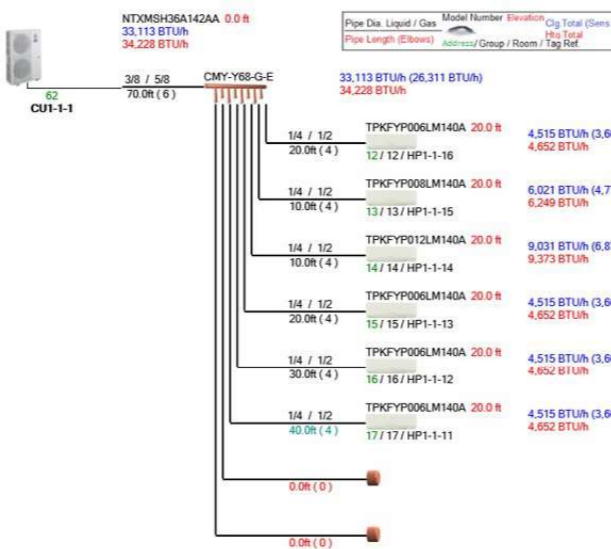
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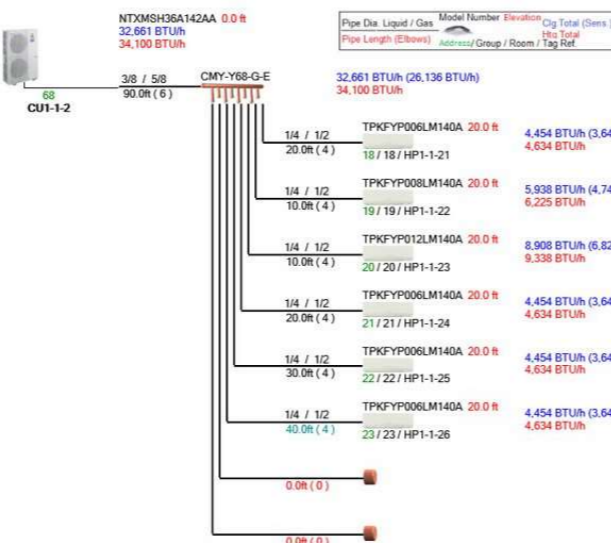
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Piping Diagram Image (Design View)



### Centralized System - Floors 0&1 Phase 1 : CU1-1-2

Piping Diagram Image (Design View)



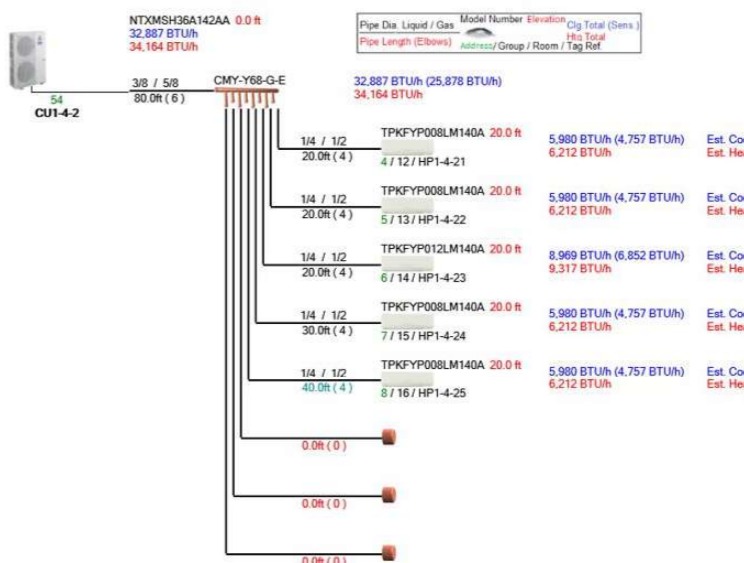
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Piping Diagram Image (Design View)



### Centralized System - Floor 1 Phase 4 : CU1-4-2

Piping Diagram Image (Design View)



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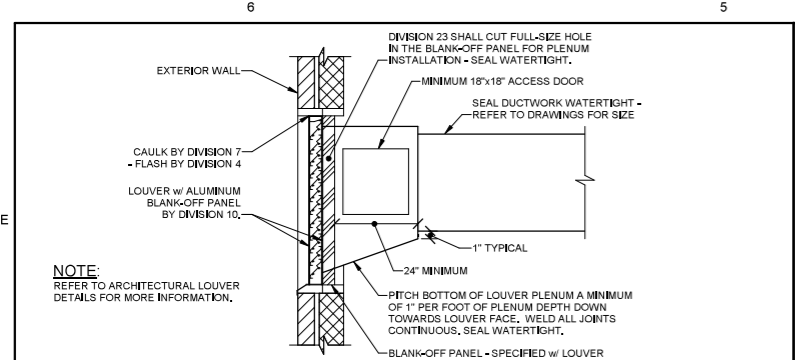
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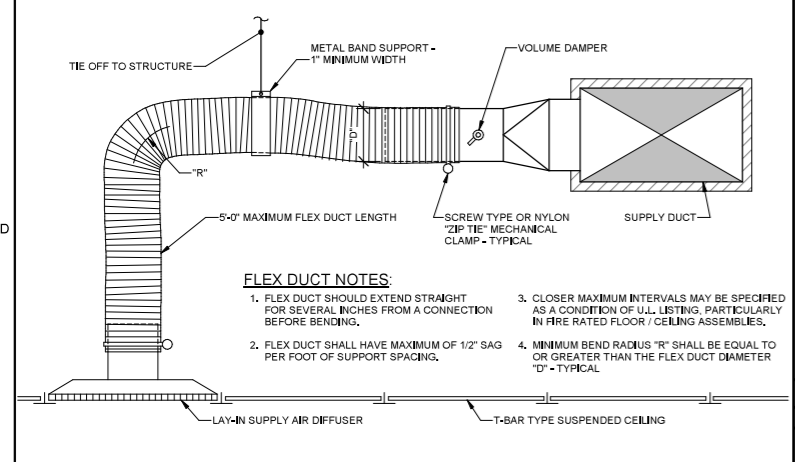
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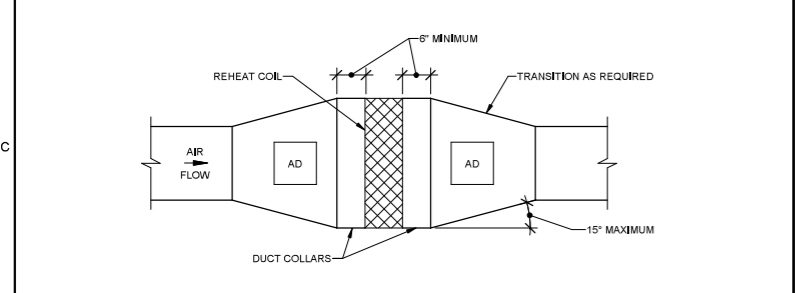
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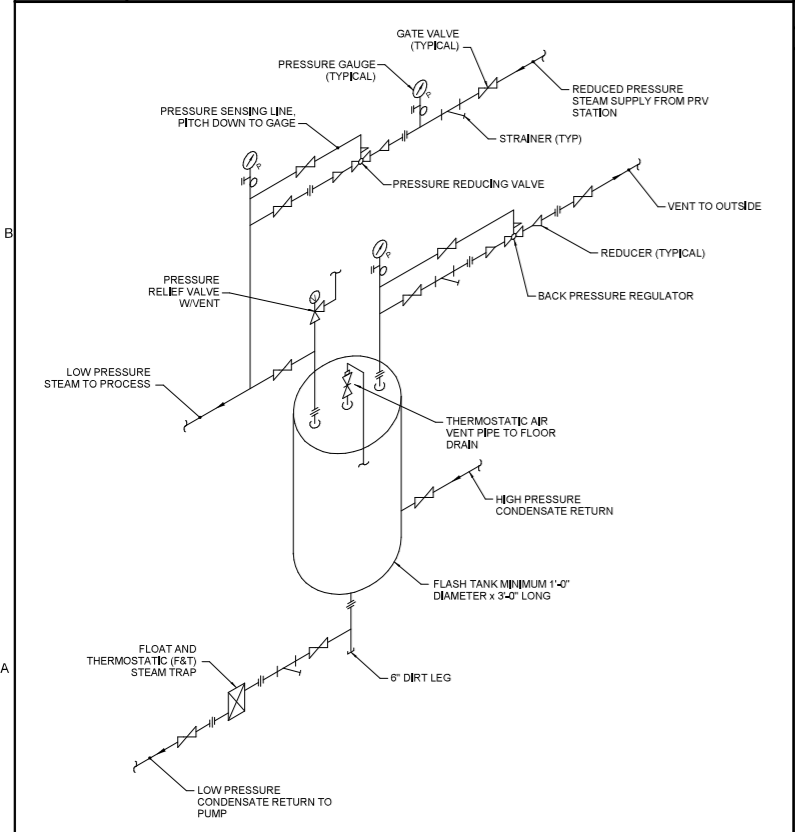
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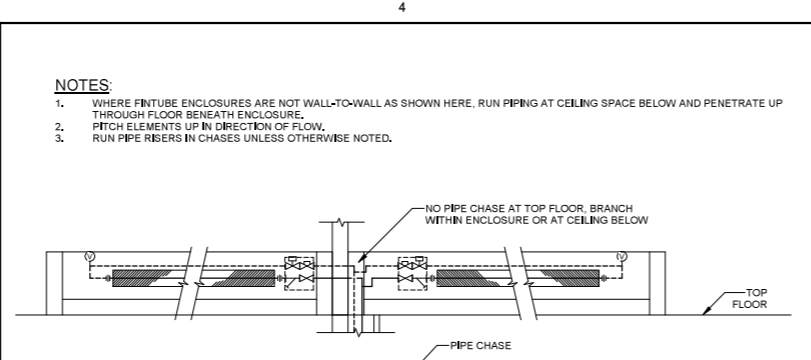
D6 SUPPLY AIR BRANCH CONNECTION



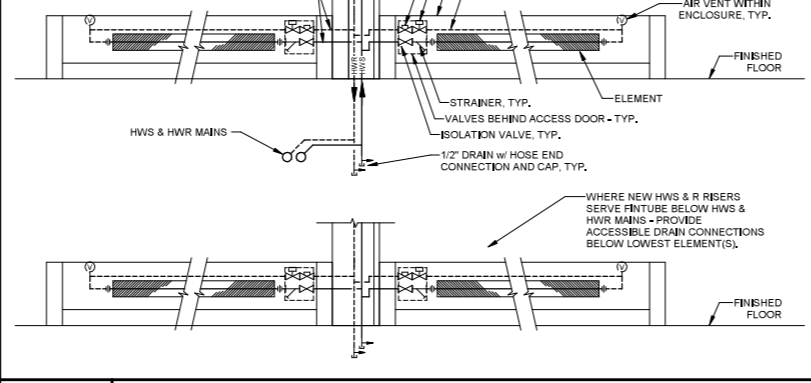
C6 REHEAT COIL DUCT CONNECTION



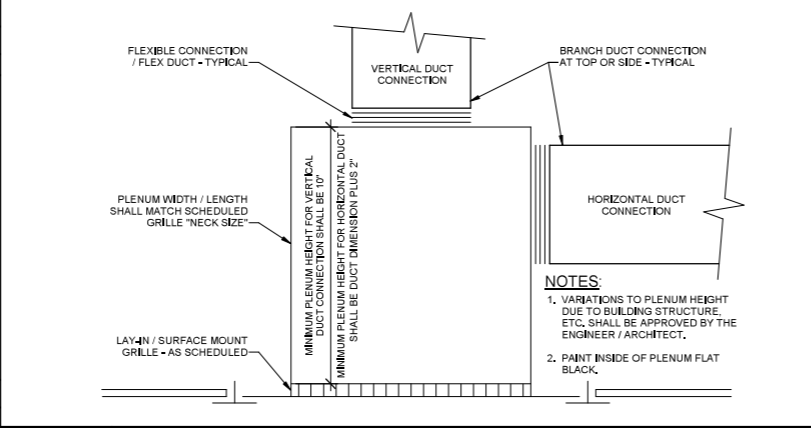
A6 FLASH TANK PIPING



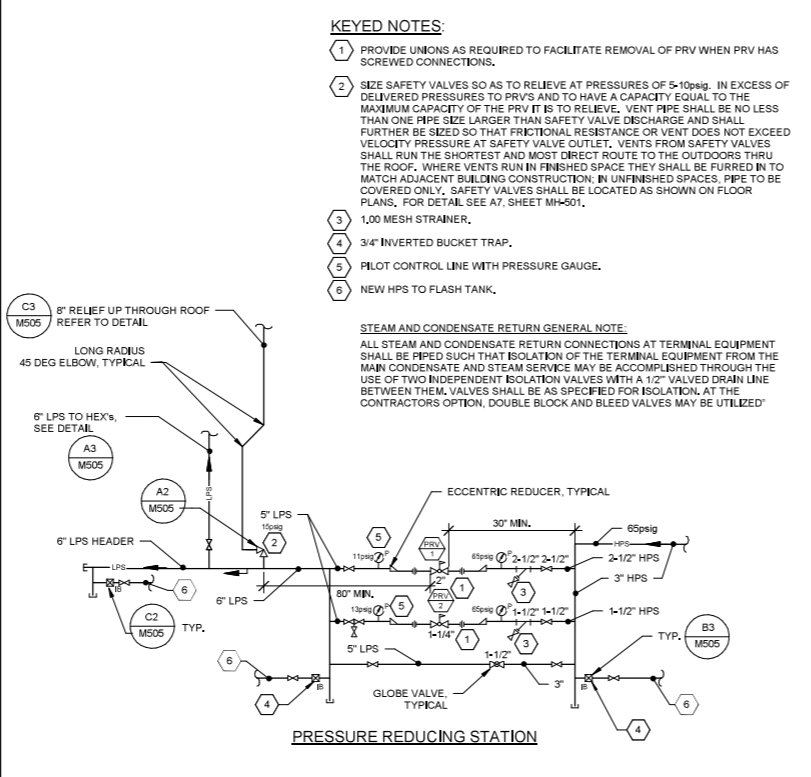
D5 FINTUBE PIPING AT DORM ROOMS



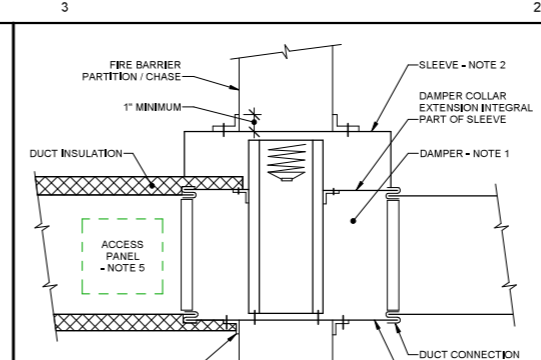
D3 TYPICAL FIRE DAMPER



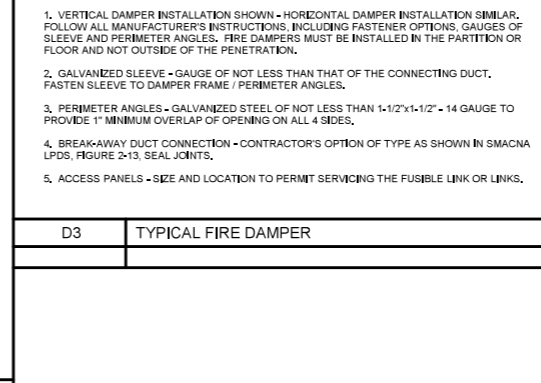
C5 RETURN AIR REGISTER BOOT



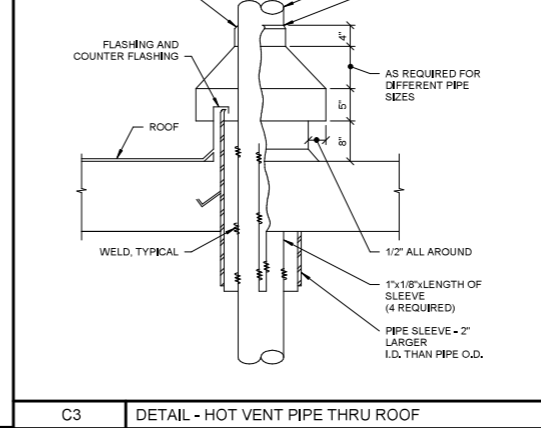
A5 STEAM 1/3 - 2/3 PRESSURE REDUCING STATION



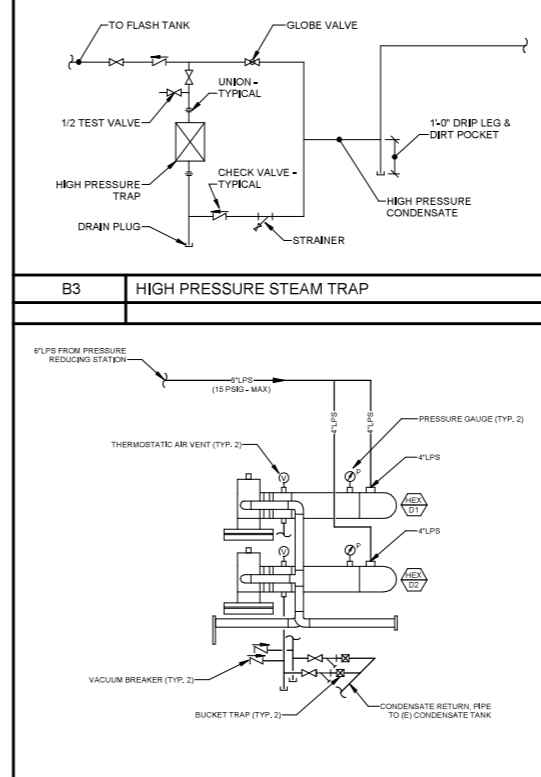
D2 FINTUBE PIPING



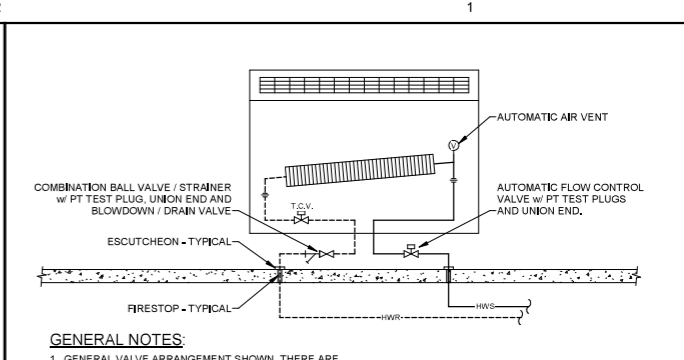
C3 DETAIL - HOT VENT PIPE THRU ROOF



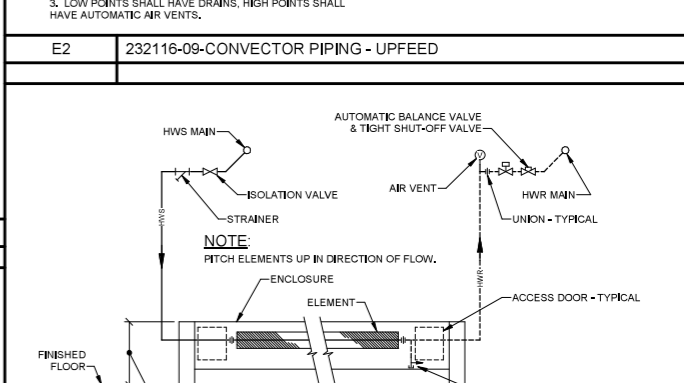
B3 HIGH PRESSURE STEAM TRAP



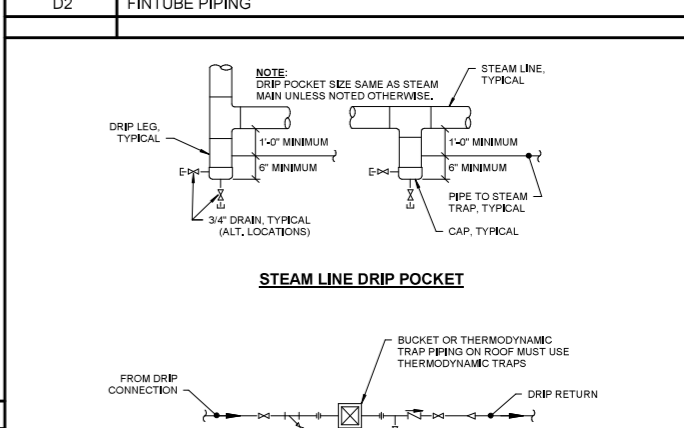
A3 DWH STEAM & CONDENSATE PIPING



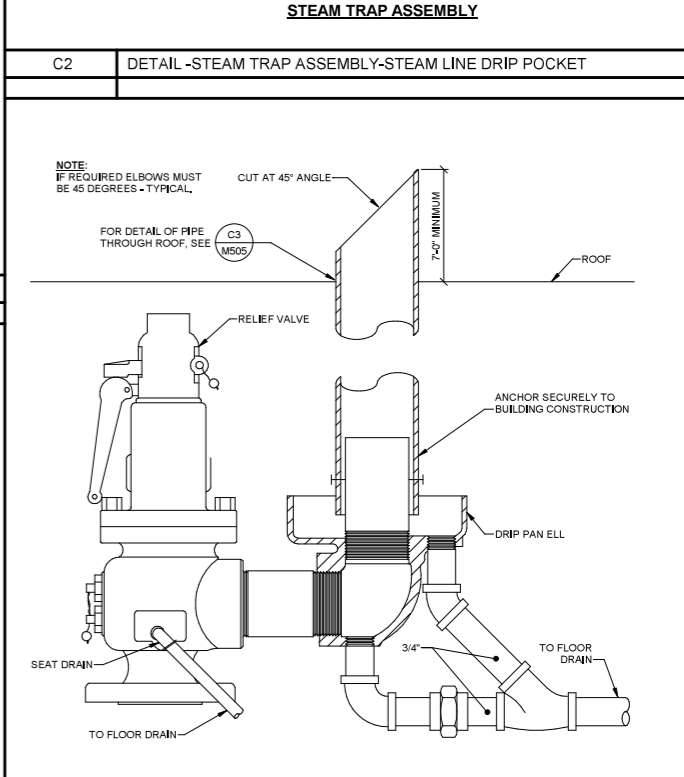
E2 232116-09-CONVECTOR PIPING - UPFEED



D2 FINTUBE PIPING



C2 DETAIL - STEAM TRAP ASSEMBLY-STEAM LINE DRIP POCKET



A2 STEAM RELIEF VALVE DRIP PAN ELL

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		Revision Schedule

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DOCUMENTS - ISSUED  
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TITLE  
MECHANICAL DETAILS

SHEET  
M505



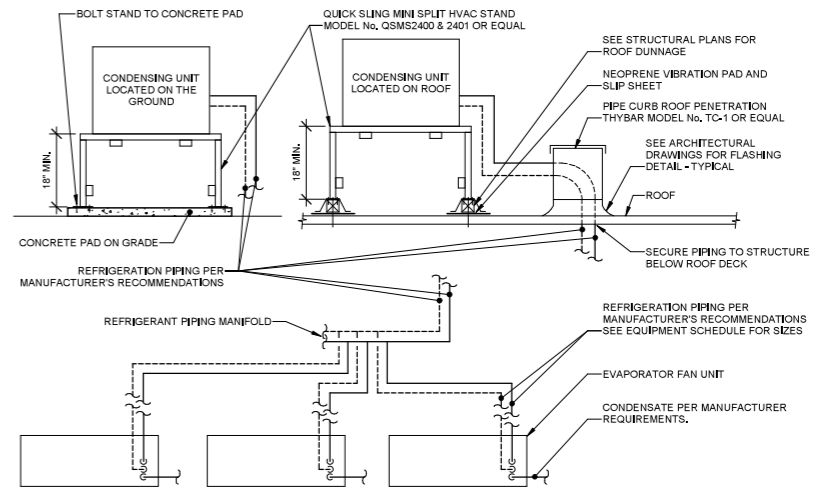
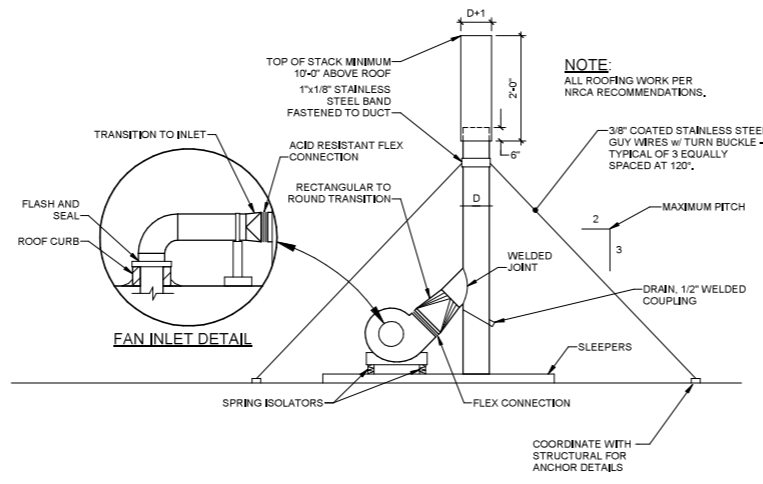
E

D

C

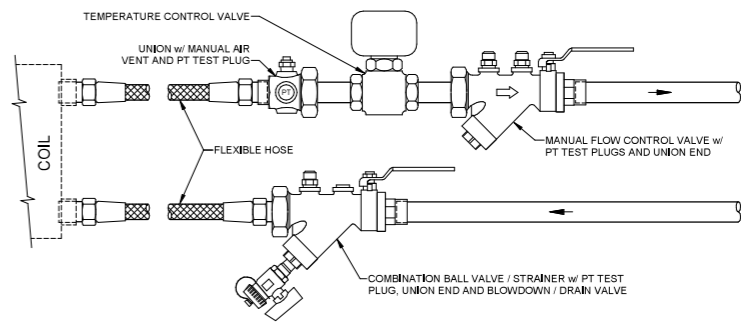
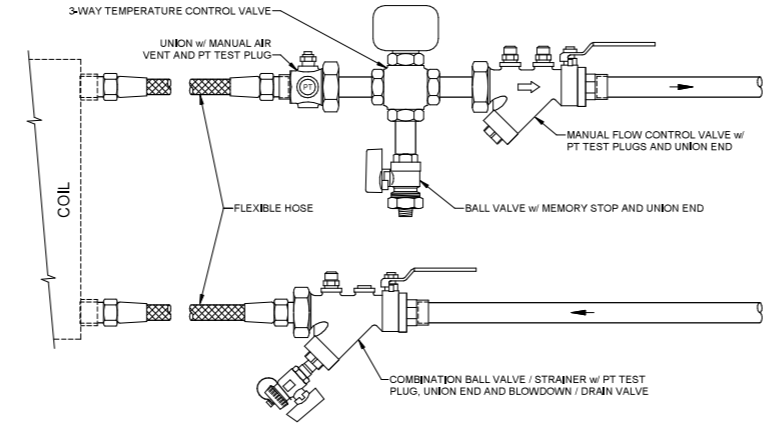
B

A



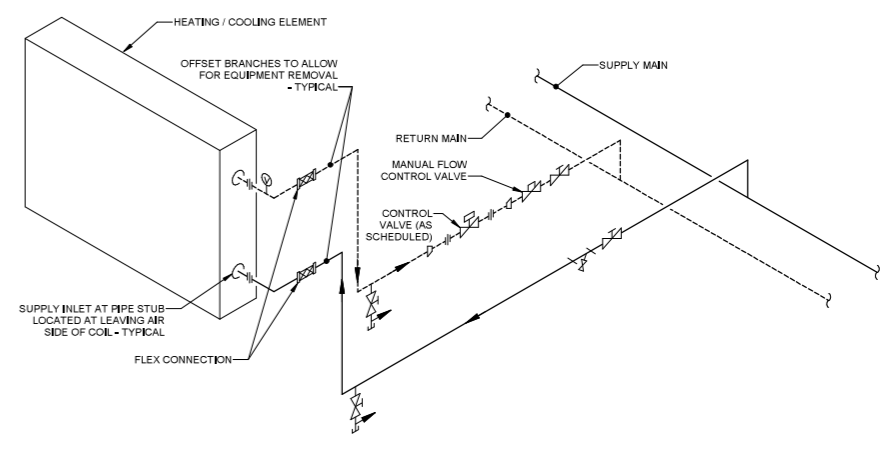
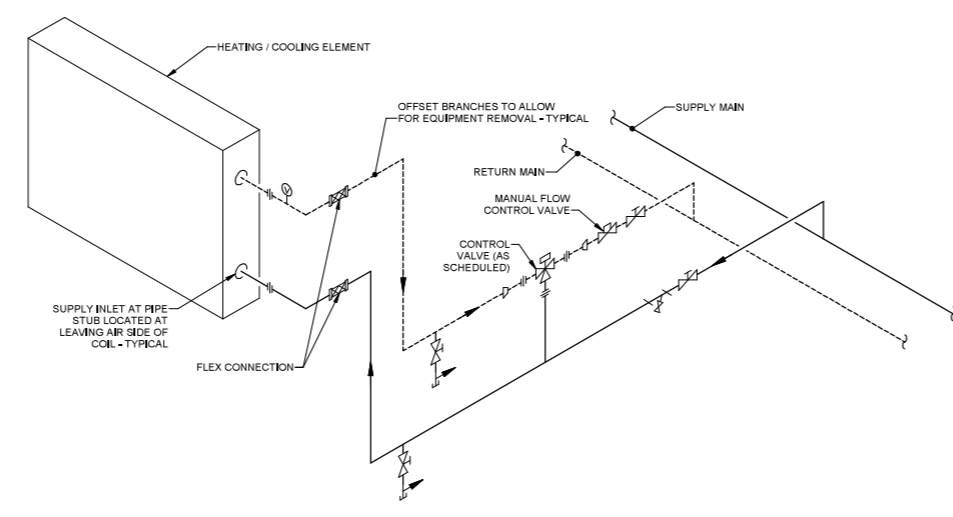
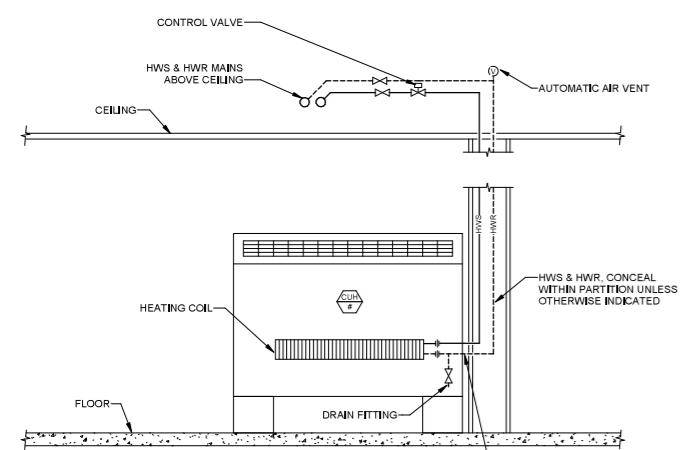
D4 DRYER EXHAUST FAN - VERTICAL DISCHARGE

D2 238126-01 - VRF SYSTEM SCHEMATIC - ROOF / GROUND INSTALLATION



B4 237313-07 - HYDRONIC COIL PAK PIPING - 3-WAY VALVE

B2 237313-06 - HYDRONIC COIL PAK PIPING - 2-WAY VALVE



A4 237313-03 - HYDRONIC COIL PIPING SCHEMATIC - 3-WAY VALVE

A2 237313-02 - HYDRONIC COIL PIPING SCHEMATIC - 2-WAY VALVE

NOTES:  
 1. VALVES SHALL BE ACCESSIBLE FOR INSPECTION AND SERVICE. PROVIDE ACCESS DOORS OR REMOVABLE COVER.  
 2. LOW POINTS SHALL HAVE DRAINS. HIGH POINTS SHALL HAVE AUTOMATIC AIR VENTS.  
 WHERE CABINET UNIT HEATER IS EXISTING, CONNECT NEW HWS & HWR, SEE PLANS

A6 CUH PIPING - VERTICAL

No.	Date	Description
		Revision Schedule

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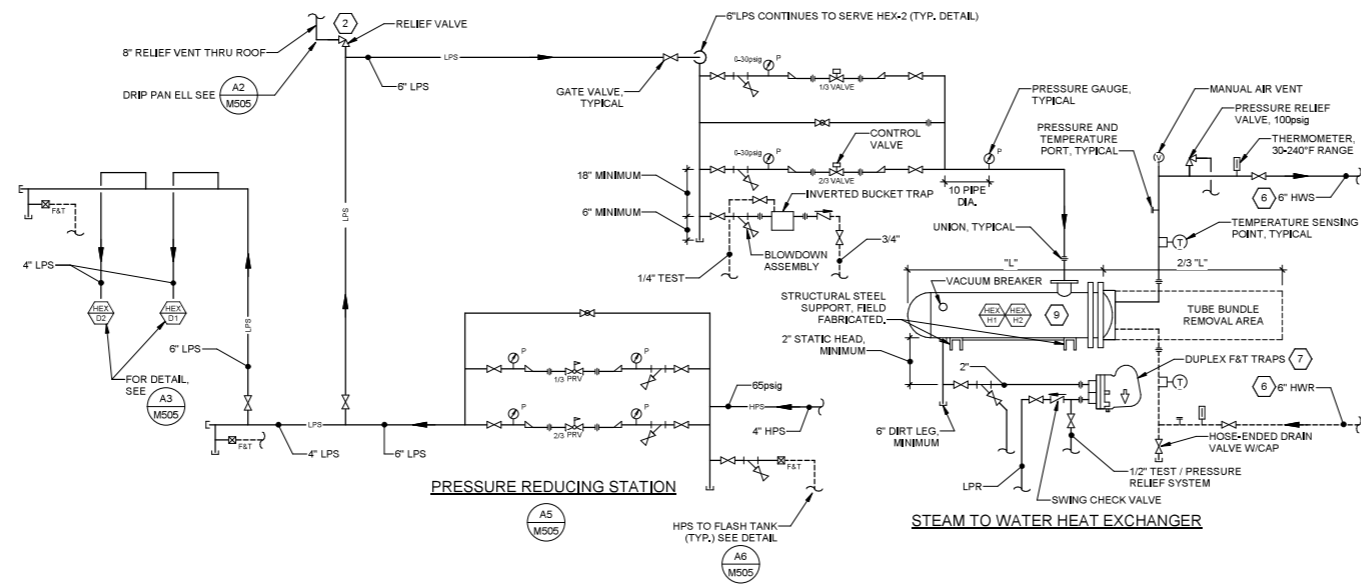
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TITLE MECHANICAL DETAILS

SHEET  
M506

E  
D  
C  
B  
A



**KEYED NOTES:**

- 1 PROVIDE UNIONS AS REQUIRED TO FACILITATE REMOVAL OF PRV WHEN PRV HAS SCREWED CONNECTIONS.
- 2 SIZE SAFETY VALVES SO AS TO RELIEVE AT PRESSURES OF 5-10psig. IN EXCESS OF DELIVERED PRESSURES TO PRVS AND TO HAVE A CAPACITY EQUAL TO THE MAXIMUM CAPACITY OF THE PRV IT IS TO RELIEVE. VENT PIPE SHALL BE NO LESS THAN ONE PIPE SIZE LARGER THAN SAFETY VALVE DISCHARGE AND SHALL FURTHER BE SIZED SO THAT FRICTIONAL RESISTANCE OR VENT DOES NOT EXCEED VELOCITY PRESSURE AT SAFETY VALVE OUTLET. VENTS FROM SAFETY VALVES SHALL RUN THE SHORTEST AND MOST DIRECT ROUTE TO THE OUTDOORS THRU THE ROOF. WHERE VENTS RUN IN FINISHED SPACE THEY SHALL BE FURRED IN TO MATCH ADJACENT BUILDING CONSTRUCTION. IN UNFINISHED SPACES, PIPE TO BE COVERED ONLY. SAFETY VALVES SHALL BE LOCATED AS SHOWN ON FLOOR PLANS.
- 3 1.00 MESH STRAINER.
- 4 3/4" INVERTED BUCKET TRAP.
- 5 PILOT CONTROL LINE WITH PRESSURE GAUGE.
- 6 6" HWS & R MAINS.
- 7 DUPLEX F&T TRAPS IN PARALLEL. SECOND TRAP NOT SHOWN.
- 8 ROUTE TO DRAIN.
- 9 TYPICAL OF TWO HEAT EXCHANGERS.

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MECHANICAL DETAILS

SHEET  
**M507**

A1	STEAM SYSTEM PIPING SCHEMATIC
NONE	

DEDICATED OUTSIDE AIR SYSTEM (DOAS) SCHEDULE

Table with columns: GENERAL, TAG, DOAS-0-1, DOAS-R-11, DOAS-R-12, DOAS-R-21, DOAS-R-22, DOAS-R-31, DOAS-R-32, DOAS-R-41, DOAS-R-42. Rows include: FILTER SECTION, OUTSIDE AIR FAN, EXHAUST AIR FAN, OVERALL DIMENSIONS, HEAT RECOVERY CORE, REFRIGERATION, HEATING COIL, DX COOLING COIL, UNIT EFFICIENCY, ELECTRICAL DATA.

NOTES:
1. ISMRE270
AHRI 920-2020 Integrated Seasonal Moisture Removal Efficiency: ISMRE270 calculated at the scheduled specified dew point; see schedule
920 Standard Rating Condition A = 95oF DBT, 78oF WBT
920 Standard Rating Condition B = 80oF DBT, 73oF WBT
920 Standard Rating Condition C = 70oF DBT, 66oF WBT
920 Standard Rating Condition D = 63oF DBT, 59oF WBT
ISMRE270 = (A \* 0.14) + (B \* 0.34) + (C \* 0.39) + (D \* 0.13)
A = MRE70.A @ 95F Entering Condenser Air & 95F DBT/78F WBT Entering the DOAS, maintaining the scheduled Dew Point within +/-0.3F & reheat between 70-75
B = MRE70.B @ 80F Entering Condenser Air & 80F DBT/73F WBT Entering the DOAS, maintaining the scheduled Dew Point within +/-0.3F & reheat between 70-75
C = MRE70.C @ 70F Entering Condenser Air & 70F DBT/66F WBT Entering the DOAS, maintaining the scheduled Dew Point within +/-0.3F & reheat between 70-75
D = MRE70.D @ 63F Entering Condenser Air & 63F DBT/59F WBT Entering the DOAS, maintaining the scheduled Dew Point within +/-0.3F & reheat between 70-75
2. At part-load, defined as OA conditions below a 70F WBT, each DOAS shall deliver between 70-75 F DBT at 45.0F, +/-0.3 supply-air dew point. To validate this performance; Provide computer selection output on manufacturer's official selection software to confirm each DOAS will deliver between 70-75 F DBT at 45.0F, +/-0.3 supply-air dew point at O...
3. Provide unit mounted disconnect with single point power for all components.
4. Unit weight and dimensions do not include curb.
5. All DOAS units to have horizontal supply and return duct connections.
6. Evaporator, HGR and Condenser Coils shall have factory-applied epoxy polymer e-coating that meets ASTM B117 minimum 6000 hrs salt spray testing requirements.
7. Provide Unit controller, fully programmable, BACnet ready, with color touch screen graphical display. Control points shall be coordinated with BAS supplier.
8. Double wall 2" R13 construction; unit base shall also have Double wall 2" R13 construction.
9. Provide modulating Hot Gas Reheat with 6" gap between the evaporator coil and HGR Coil to prevent re-evaporation back into the airstream, provide space/access for the DX Coil LAT sensor
10. Entire cabinet exterior shall be pre-painted.
11. Supply and Exhaust fan piezo rings and transducer shall factory mounted and wired to the unit controller to display CFM.
12. Each condenser fan motor powered by variable frequency drive for active head pressure control



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Table with 2 columns: No., Date, Description. Row 1: Revision Schedule

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TITLE MECHANICAL SCHEDULES

SHEET M600

ENERGY RECOVERY VENTILATOR (ERV) SCHEDULE												
GENERAL	TAG	ERV-1-11	ERV-1-21	ERV-1-22	ERV-1-31	ERV-1-32	ERV-1-33	ERV-0-41	ERV-0-42	ERV-0-43	ERV-1-41	ERV-1-42
SERVES	FLR 1 CHAPEL, PHASE 1	FLR 1 BOH, PHASE 2	FLR 1 LOUNGE, PHASE 2	FLR 1 ADMIN, PHASE 3	FLR 1 ADMIN, PHASE 3	FLR 1 SECURITY, PHASE 3	BILGE, PHASE 4	BOOKSTORE, PHASE 4	FLR 1 APT, PHASE 4	FLR 1 SALON, PHASE 4	FLR 1 ADMIN, PHASE 4	FLR 1 ADMIN, PHASE 4
LOCATION	FIRST FLR (1)	FIRST FLR (1)	FIRST FLR (1)	FIRST FLR (1)	FIRST FLR (1)	FIRST FLR (1)	GROUND FLOOR (0)	GROUND FLOOR (0)	GROUND FLOOR (0)	GROUND FLOOR (0)	FIRST FLR (1)	FIRST FLR (1)
TYPE	Enthalpy Core	Enthalpy Core	Enthalpy Core	Enthalpy Core	Enthalpy Core	Enthalpy Core	Enthalpy Core	Enthalpy Core	Enthalpy Core	Enthalpy Core	Enthalpy Core	Enthalpy Core
MFR	ALDES	ALDES	ALDES	ALDES	ALDES	ALDES	ALDES	ALDES	ALDES	ALDES	ALDES	ALDES
MODEL	E650L-FE-C-N	E650L-FE-C-N	E650L-FE-C-N	E650L-FE-C-N	E650L-FE-C-N	E650L-FE-C-N	E650L-FE-C-N	E650L-FE-C-N	E650L-FE-C-N	E650L-FE-C-N	E650L-FE-C-N	E650L-FE-C-N
FILTER SECTION	FILTERS (OA)	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13	MERV 13
FILTERS SIZE (IN)									20 x 20 x 2			
FILTERS (RA)		MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8
FILTERS SIZE (IN)									20 x 20 x 2			
OUTSIDE AIR FAN	TYPE	ECM	ECM	ECM	ECM	ECM	ECM	ECM	ODP, BI	ECM	ECM	ECM
AIRFLOW (cfm)		200	300	225	425	225	250	450	1,450	450	440	225
ESP, in.wc.		0.50inwc	0.50inwc	0.50inwc	0.50inwc	0.50inwc	0.50inwc	0.50inwc	0.75inwc	0.50inwc	0.50inwc	0.50inwc
MOTOR SPEEDS		VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE
FAN HP / kW									(1) 1HP			
EXHAUST AIR FAN	TYPE	ECM	ECM	ECM	ECM	ECM	ECM	ECM	ODP, BI	ECM	ECM	ECM
AIRFLOW (cfm)		200	300	225	425	225	250	450	1,450	450	440	225
ESP, in.wc.		0.50inwc	0.50inwc	0.50inwc	0.50inwc	0.50inwc	0.50inwc	0.50inwc	0.75inwc	0.50inwc	0.50inwc	0.50inwc
MOTOR SPEEDS		VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE
FAN HP / kW									(1) 1HP			
OVERALL DIMENSIONS	LENGTH	41.75"	41.75"	41.75"	41.75"	41.75"	41.75"	41.75"	131.8"	41.75"	41.75"	41.75"
WIDTH		32.125"	32.125"	32.125"	32.125"	32.125"	32.125"	32.125"	58.4"	32.125"	32.125"	32.125"
HEIGHT		23.875"	23.875"	23.875"	23.875"	23.875"	23.875"	23.875"	71.2"	23.875"	23.875"	23.875"
OPERATING WEIGHT, lbs.		150	150	150	150	150	150	150	3,200	150	150	150
HEAT RECOVERY CORE	SUMMER OA DB/WB	87 / 74	87 / 74	87 / 74	87 / 74	87 / 74	87 / 74	87 / 74	87 / 74	87 / 74	87 / 74	87 / 74
WINTER OA DB		-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
SUMMER SA DB/WB		79 / 69	79 / 69	79 / 69	79 / 69	79 / 69	79 / 69	79 / 69	79 / 69	79 / 69	79 / 69	79 / 69
WINTER SA DB		45	45	45	45	45	45	45	45	45	45	45
SENSIBLE EFFECTIVENESS		75.0%	70.0%	74.0%	63.0%	74.0%	73.0%	62.0%	80% (Total)	62.0%	61.0%	74.0%
SUMMER TOTAL EFF.		62.0%	56.0%	60.0%	50.0%	60.0%	58.0%	48.0%	82% (Sensible)	48.0%	47.0%	60.0%
WINTER TOTAL EFF.		73.0%	68.0%	71.0%	60.0%	71.0%	70.0%	58.0%	77% (Latent)	58.0%	57.0%	71.0%
FROST CONTROL		EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	RECIRC DAMPER	EXHAUST	EXHAUST	EXHAUST
CORE BYPASS		INTERNAL DAMPER	INTERNAL DAMPER	INTERNAL DAMPER	INTERNAL DAMPER	INTERNAL DAMPER	INTERNAL DAMPER	INTERNAL DAMPER	INTERNAL DAMPER	INTERNAL DAMPER	INTERNAL DAMPER	INTERNAL DAMPER
HEATING COIL	HYDRONIC COIL TAG	HC-1-11	HC-1-21	HC-1-22	HC-1-31	HC-1-32	HC-1-33	HC-0-41	HC-0-42	HC-0-43	HC-1-41	HC-1-42
ELECTRICAL DATA	V-PH-HZ	208-1-60	208-1-60	208-1-60	208-1-60	208-1-60	208-1-60	208-1-60	208-3-60	208-1-60	208-1-60	208-1-60
UNIT MCA		3.4	3.4	3.4	3.4	3.4	3.4	3.4	23.2	3.4	3.4	3.4
MOPD / MOCOP		15	15	15	15	15	15	15	25	15	15	15
SMOKE DETECTORS		NONE	NONE	NONE	NONE	NONE	NONE	NONE	SA & RA	NONE	NONE	NONE

- NOTES:
- UNITS PROVIDED WITH FACTORY VFD'S, PACKAGED CONTROLS AND DISCONNECT SWITCH.
  - WEIGHT AND DIMENSIONS DO NOT INCLUDE CURB INFORMATION.

#### HEAT EXCHANGER SCHEDULE - STEAM TO WATER CONVERTER

TAG	MFR/MODEL	LOCATION	SERVICE	STEAM INLET PRESS PSIG	STEAM LBS/HR	HEATED FLUID						PASSES	SHELL DIA	OVERALL LENGTH	
						GPM	% PROP GLYCOL	E.W.T. DEG F	L.W.T. DEG F	P.D. (FT HD)	TUBE VEL (FPS)				MBH
HEX-H1	TACO E16206-S	BLR RM MEZZ	HWS/R	15	1,759	210	0	160	180	0.12	1.7	2,100,000	2	16"	36"
HEX-H2	TACO E16206-S	BLR RM MEZZ	HWS/R	15	1,759	210	0	160	180	0.12	1.7	2,100,000	2	16"	36"
HEX-G	TACO E12206-S	BLR RM MEZZ	GWS/R	15	817	65	40	150	180	0.06	1.04	975,000	2	12"	36"

#### EXHAUST CAPTURE SCHEDULE

TAG	TYPE	MANUFACTURER	MODEL	SERVES	WIDTH (L-R)	DEPTH	HEIGHT	CFM	SP.	DUCT CONNL	ELEC.	AMPS	WEIGHT	NOTES
HE-1	RECIRCULATING FIRE PROTECTION RANGE HOOD	DENLAR	D1036-F-NFPA	RANGE	36"	19.38"	14.8"	500	---	FRONT - RECIRCULATING	1201/60	3.7	57 LBS.	1,2,3,4

NOTES:

- INTEGRATED FIRE SUPPRESSION SYSTEM
- MANUAL PULL STATION KIT W/ 25FT CABLE
- NFPA 101 COMPLIANCE
- PROVIDE W/ CLOCK-BOX PRO, ADA SWITCHES, ELECTRICAL DISCONNECT, HORN & STROBE

#### HYDRONIC PUMP SCHEDULE

TAG	SYSTEM	MFR.	MODEL	TYPE	PUMPED FLUID	PERFORMANCE			ELECTRICAL				ELECTRICAL COORDINATION			NOTES	
						GPM TOTAL	GPM / PUMP	HEAD	BHP	MOTOR HP	RPM	MCA / MOCOP	VOLTS/PH (60 HZ)	STARTER TYPE	STARTER FURN. BY		DISC. SWITCH FURN. BY
PH1	HWS/R	GRUNDFOS	HYDRO MPC-E-3CRE-32-2	PACKAGED TRIPLEX INTEGRAL VARIABLE SPEED	WATER	280	140	79.36	3.86	7.5	3013	78.7 / 90	208/3	INTEGRAL	DIV 23	DIV 23	1
P-G1	GWS/R	GRUNDFOS	HYDRO MPC-E-3CRE-15-2	PACKAGED DUPLEX INTEGRAL VARIABLE SPEED	40% P.G.	65	65	74.57	1.76	5	2933	37.6 / 45	208/3	INTEGRAL	DIV 23	DIV 23	2

NOTES:

- PACKAGED PUMP SYSTEM, SINGLE POINT POWER AT CONTROL PANEL, SIZE AND SET UP FOR 50-50-60. TWO PUMPS RUN + ONE STANDBY.
- PACKAGED PUMP SYSTEM, SINGLE POINT POWER AT CONTROL PANEL, SIZE AND SET UP FOR 100-100. ONE PUMP RUNS + ONE STANDBY.

#### HYDRONIC FINNED TUBE RADIATION SCHEDULE

TAG	STERLING MODEL	DESCRIPTION	ENCLOSURE HEIGHT	MOUNTING HEIGHT, TOP OF ENCLOSURE	DEPTH FROM WALL	Nb. OF TIERS	FLOW (GPM)	EAT (°F)	AWT (°F)	BTU / FT	ELEMENT	FIN SIZE (HxW)	FINS / FT	NOTES
FT-1	VERSA-LINE JVB-S819	COMMERCIAL, DOUBLE SLOPE TOP	19-1/2"	TIGHT TO CEILING	5-9/16"	1	1.0	65	170	870	3/4" COPPER / ALUM	3-5/8"x4-1/4"	50	
FT-2	VERSA-LINE JVB-S14	COMMERCIAL, SLOPE TOP	14"		5-9/16"	1	1.0	65	170	1,120	3/4" COPPER / ALUM	3-5/8"x4-1/4"	50	
FT-3	VERSA-LINE BARE-X*	COMMERCIAL, BARE ELEMENT	N/A		N/A	1	4.0	65	170	700	3/4" COPPER / ALUM	3-1/4"x3-1/4"	50	

NOTES:

- PROVIDE RETURNS WITHIN ENCLOSURE WHERE APPLICABLE.

#### LOUVER / WALL CAP SCHEDULE

TAG	MAKE - MODEL	TYPE	AIR SYSTEMS	DUTY (INTAKE / EXHAUST)	MAX CFM	DIMENSIONS					BEGINNING POINT OF WATER PENETRATION AT 0.01 OZ./SQ	MAX P.D. I.N.W.C.	SCREEN	NOTES		
						OPENING HEIGHT (IN.)	OPENING WIDTH (IN.)	DUCT DIAM. (IN.)	MIN. FREE AREA (SF)	GROSS VELOCITY (FT/MIN)					NET VELOCITY (FT/MIN)	% FREE AREA
L-1	AWV LE-63	LOUVER	ERV-0-11	EXHAUST	2,750	60	24	---	3.85	275	714	39%	4"	873 FPM	0.01	SEE 233113
L-2	AWV LE-63	LOUVER	ERV-0-42 & 0-43	EXHAUST	1,850	48	24	---	3.04	231	609	38%	4"	873 FPM	0.01	SEE 233113
WC-1	ALDES 22312	WALL HOOD	ERVx	INTAKE	475	12	15	12	0.78	380	609	62%	---	---	---	SEE 233113
WC-2	ALDES 22312	WALL HOOD	ERVx	EXHAUST	475	12	15	12	0.78	380	609	62%	---	---	---	SEE 233113

NOTES:

#### GLYCOL FEED SYSTEM

TAG	NEPTUNE MODEL	CAPACITY SF-EDR	HWS SYSTEM PUMP GPM	DISCH PRESSURE	PUMP HP	RECEIVER GAL	INLET / DISCH SIZE	ELECTRICAL COORDINATION	
								STARTER FURN. BY	DISC. SWITCH FURN BY
GF-1	G50-2A	6000	1.5	100	2 @ 1/2	50	12"	PACKAGED WITH UNIT	8FT POWER CORD W/PLUG FURN. W/UNIT

TAG	SERVES	MFR.	MODEL	TYPE	DRIVE	CFM	ESP	ELECTRICAL REQUIREMENTS					WEIGHT (LBS.)	NOTES	
								MCA	HP	MOTOR TYPE	SPEED CONTROL	DISC. SWITCH...			VOLTS / PH / HZ
DEF-R-1	DRYER EXHAUST, PHASE 1	ENERVEK	BEF-450x	BOX VENTILATOR	DIRECT	1,200	2.0"	8,9	2,3	ECM	STACK PRESSURE	DIV 26	208/3/60	143	1, 2
DEF-R-2	DRYER EXHAUST, PHASE 2	ENERVEK	BEF-450x	BOX VENTILATOR	DIRECT	1,200	2.0"	8,9	2,3	ECM	STACK PRESSURE	DIV 26	208/3/60	143	1, 2
DEF-R-3	DRYER EXHAUST, PHASE 3	ENERVEK	BEF-450x	BOX VENTILATOR	DIRECT	1,200	2.0"	8,9	2,3	ECM	STACK PRESSURE	DIV 26	208/3/60	143	1, 2
DEF-R-4	DRYER EXHAUST, PHASE 4	ENERVEK	BEF-450x	BOX VENTILATOR	DIRECT	1,200	2.0"	8,9	2,3	ECM	STACK PRESSURE	DIV 26	208/3/60	143	1, 2

NOTE:

- FAN POWER FED FROM EBC-31 MODULATING CONTROLLER (0-10V).
- PROVIDE OFFSET STACK HIGH PLUME DISCHARGE FOR DRYER EXHAUST APPLICATION.

#### DUCT HEATING COIL SCHEDULE

TAG	SERVES	AIRFLOW CFM	LENGTH IN.	HEIGHT IN.	FACE VEL FPM	EDB °F	LDB °F	MBH	MAX APD	FLUID = 40% P.G.			MAX WPD
										GPM	EWTF °F	LWTF °F	
HC-1-11	ERV-1-11	200	10	8	380	45	75	6.5	0.1"	0.4	180	150	3"
HC-1-21	ERV-1-21	300	12	8	450	45	75	9.7	0.1"	0.6	180	150	3"
HC-1-22	ERV-1-22	225	10	8	405	45	75	7.3	0.1"	0.5	180	150	3"
HC-1-31	ERV-1-31	425	14	10	437	45	75	13.8	0.1"	0.9	180	150	3"
HC-1-32	ERV-1-32	225	10	8	405	45	75	7.3	0.1"	0.5	180	150	3"
HC-1-33	ERV-1-33	250	10	8	450	45	75	8.1	0.1"	0.5	180	150	3"
HC-0-41	ERV-0-41	450	14	10	463	45	75	14.6	0.1"	1.0	180	150	3"
HC-0-42	ERV-0-42	1,400	24	18	467	45	75	45.4	0.1"	3.0	180	150	3"
HC-0-43	ERV-0-43	450	14	10	463	45	75	14.6	0.1"	1.0	180	150	3"
HC-1-41	ERV-1-41	475	14	10	489	45	75	15.4	0.1"	1.0	180	150	3"
HC-1-42	ERV-1-42	225	10	8	405	45	75	7.3	0.1"	0.5	180	150	3"
TOTALS		4,625						149.9		10.0			

NOTES:





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No. | Date | Description  
Revision Schedule

NOT FOR  
CONSTRUCTION

JOB NO.  
075982

ISSUE

100% CONSTRUCTION  
DOCUMENTS - ISSUED  
FOR BIDDING  
11/22/2023

TITLE  
MECHANICAL  
SCHEDULES

SHEET  
M602

VARIABLE REFRIGERANT FLOW (VRF) INDOOR UNIT SIZE SCHEDULE - ALT. #3

Table with columns: TAG, RM #, ROOM NAME, HP SIZE, NOMINAL CAPACITY (COOLING, HEATING), CORRECTED CAPACITY (COOLING TOTAL, COOLING SENSIBLE, HEATING MINIMUM). Includes units like HPO 1-11, HPO 1-12, etc.

NOTES:  
1. HP size assigned here, see VRF Indoor Unit Performance Schedule for HP performances.

VARIABLE REFRIGERANT FLOW (VRF) INDOOR UNIT SIZE SCHEDULE - 2nd FLR

Table with columns: TAG, RM #, ROOM NAME, HP SIZE, NOMINAL CAPACITY (COOLING, HEATING), CORRECTED CAPACITY (COOLING TOTAL, COOLING SENSIBLE, HEATING MINIMUM). Includes units like HP2 1-11, HP2 1-12, etc.

NOTES:  
1. HP size assigned here, see VRF Indoor Unit Performance Schedule for HP performances.

VARIABLE REFRIGERANT FLOW (VRF) INDOOR UNIT SIZE SCHEDULE - 3rd FLR

Table with columns: TAG, RM #, ROOM NAME, HP SIZE, NOMINAL CAPACITY (COOLING, HEATING), CORRECTED CAPACITY (COOLING TOTAL, COOLING SENSIBLE, HEATING MINIMUM). Includes units like HP3 1-11, HP3 1-12, etc.

NOTES:  
1. HP size assigned here, see VRF Indoor Unit Performance Schedule for HP performances.

VARIABLE REFRIGERANT FLOW (VRF) INDOOR UNIT SIZE SCHEDULE - 4th FLR

Table with columns: TAG, RM #, ROOM NAME, HP SIZE, NOMINAL CAPACITY (COOLING, HEATING), CORRECTED CAPACITY (COOLING TOTAL, COOLING SENSIBLE, HEATING MINIMUM). Includes units like HP4 1-11, HP4 1-12, etc.

NOTES:  
1. HP size assigned here, see VRF Indoor Unit Performance Schedule for HP performances.

VARIABLE REFRIGERANT FLOW (VRF) - INDOOR UNIT PERFORMANCE SCHEDULE

Table with columns: HP SIZE, NOMINAL BTUH (COOLING, HEATING), CORRECTED BTUH (COOLING, HEATING), R/L / R/G PIPE SIZE (IN), COND. PIPE SIZE (IN), PEAK FAN AIRFLOW (CFM), ELECTRICAL REQUIREMENTS (V/PH/HZ, MCA, MFS, DISC. BY), DIMENSIONS (W, D, H in inches), TRANE MODEL NUMBER, WEIGHT (LB).

NOTES:  
1. Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)  
2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)  
3. See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities  
4. See specifications for indication of required indoor unit remote controllers, system controllers, and integration devices.  
5. Cooling and heating corrected capacities based on full demand.  
6. HP size here are assigned to spaces on VRF Indoor Unit Size Schedule.  
7. HP sizes E & F are part of a Multi-Zone unit and powered from CU.

AIR SEPARATION & EXPANSION TANK SCHEDULE			
SYSTEM	HWS/R LOOP	GWS/R LOOP	DHW
AIR-DRY SEPARATOR	AS-H	AS-G	----
MANUFACTURER	TACO	TACO	----
MODEL	4905AD	49025AD	----
TYPE	AIR & DIRT	AIR & DIRT	----
FLOW RATE, GPM	280	65	----
INLET/OUTLET	3"	2-1/2"	----
BLADDER-TYPE EXPANSION TANK	ET-H1 & H2	ET-G	ET-D
MANUFACTURER	TACO	TACO	TACO
MODEL	CA-1100	CA-450	PAX10
SYSTEM HEIGHT, FT	60	60	----
STATIC PRESSURE AT TANK, PSIG	26.0	26.0	----
PSIG REQ'D AT HIGHEST SYS POINT	5	5	----
TANK PRE-CHARGE PRESSURE	31.0	31.0	40.0
TANK DIAMETER	30	20	12"
TANK LENGTH	85.25	77.5	12"
ACCEPTANCE VOLUME	291	119	1.7
WATERLOGGED WEIGHT (LBS.)	3250	1375	63
ASME PRESSURE RATING	125	125	150

R.G. & D ROUND DUCT RUNOUT SIZE...	
DUCT SIZE (Ø IN.)	CFM RANGE
4"	0 ≤ CFM ≤ 30
5"	31 ≤ CFM ≤ 60
6"	61 ≤ CFM ≤ 100
7"	101 ≤ CFM ≤ 150
8"	151 ≤ CFM ≤ 215
9"	216 ≤ CFM ≤ 285
10"	286 ≤ CFM ≤ 385
12"	385 ≤ CFM ≤ 620
14"	621 ≤ CFM ≤ 950
16"	951 ≤ CFM ≤ 1330
18"	1331 ≤ CFM ≤ 1810

NOTE: ROUND DUCT RUNOUT SIZES, UNLESS NOTED OTHERWISE IN DOCUMENTS

HYDRONIC PIPE SIZE RUNOUT SCHEDULE	
PIPE SIZE	MAX GPM
1/2"	1
3/4"	3
1"	6
1-1/4"	11
1-1/2"	18
2"	38
2-1/2"	65
3"	100
4"	230
5"	410
6"	700

VARIABLE REFRIGERANT FLOW (VRF) - OUTDOOR UNIT PERFORMANCE SCHEDULE																				
CU SIZE	NOMINAL TONNAGE	NOMINAL BTUH		CORRECTED BTUH		MAXIMUM CONNECTED CAPACITY	COOLING EFF.	HEATING EFF.	ELECTRICAL REQUIREMENTS			DIMENSIONS			TRANE MODEL NUMBER	WEIGHT (LB)				
		COOLING	HEATING	COOLING TOTAL	HEATING MINIMUM				EER	SEER	COP	HSPF	V / PH / HZ	MCA			RFS	MOCP	DISC. BY	H (IN)
A	3	36,000	36,000	33,300	34,250	130%	13.80	20.65	3.85	12.10	208/1/60	36	40	40	DIV 26	52-11/16	41-11/32	13	NTXMSH36A142AA	278
B	4	48,000	54,000	43,450	40,000	130%	12.20	19.75	3.85	11.50	208/1/60	36	40	40	DIV 26	52-11/16	41-11/32	13	NTXMSH36A142AA	278
C	2	22,000	25,000	21,500	20,950	100%	19.00	19.00	0.00	10.00	208/1/60	31	40	40	DIV 26	41-9/32	37-1/32	13	NTXMPH24A132AA	189

NOTES:  
1. Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)  
2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)  
3. Efficiency values for EER, SEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.  
4. Provide added field charge in addition to factory charge as needed based upon final as-built piping layout.  
5. Outdoor design conditions: 86°F Summer, +1°F Winter.  
6. CU size here are assigned to spaces on VRF Outdoor Unit Size Schedule.  
7. All units shall be low-temp heating (H2) Hypex-Heat units.  
8. CU size C shall be a Multi-Zone unit w/ three individual refrigerant pipe circuits.

REGISTERS - GRILLES - DIFFUSERS (RGD) SCHEDULE										
TAG	MFR.	MODEL	TYPE	NECK SIZE	FACE SIZE	MAX CFM	MAX TOTAL P.D. (IN.W.C.)	MAX NC LEVEL	BLOW	NOTES
S-1	PRICE	520	STEEL DOUBLE DEFL. SUPPLY	6" X 6"	7.75" X 7.75"	40	0.10"	20	ADJUSTABLE	4"Ø DUCT RUNOUT
S-2	PRICE	520	STEEL DOUBLE DEFL. SUPPLY	6" X 6"	7.75" X 7.75"	130	0.10"	20	ADJUSTABLE	6"Ø DUCT RUNOUT
S-3	PRICE	520	STEEL DOUBLE DEFL. SUPPLY	8" X 6"	9.75" X 7.75"	180	0.10"	20	ADJUSTABLE	8"Ø DUCT RUNOUT
S-4	PRICE	520	STEEL DOUBLE DEFL. SUPPLY	10" X 6"	11.75" X 7.75"	240	0.10"	20	ADJUSTABLE	10"Ø DUCT RUNOUT
S-5	PRICE	520D	STEEL DOUBLE DEFL. SUPPLY W/DAMPER	6" X 6"	7.75" X 7.75"	40	0.10"	20	ADJUSTABLE	
S-6	PRICE	520D	STEEL DOUBLE DEFL. SUPPLY W/DAMPER	6" X 6"	7.75" X 7.75"	130	0.10"	20	ADJUSTABLE	
S-7	PRICE	520D	STEEL DOUBLE DEFL. SUPPLY W/DAMPER	8" X 6"	9.75" X 7.75"	180	0.10"	20	ADJUSTABLE	
S-8	PRICE	520D	STEEL DOUBLE DEFL. SUPPLY W/DAMPER	12" X 4"	13.75" X 5.75"	180	0.10"	20	ADJUSTABLE	
S-9	PRICE	520D	STEEL DOUBLE DEFL. SUPPLY W/DAMPER	10" X 6"	11.75" X 7.75"	240	0.10"	20	ADJUSTABLE	
S-10	PRICE	SCDA	SQ. CEILING SUPPLY DIFFUSER, ADJUSTABLE, 3-CONE	6" DIA	12" X 12"	100	0.06"	18	4-WAY	
S-11	PRICE	SCDA	SQ. CEILING SUPPLY DIFFUSER, ADJUSTABLE, 4-CONE	6" DIA	24" X 24"	100	0.06"	18	4-WAY	
S-12	PRICE	SCDA	SQ. CEILING SUPPLY DIFFUSER, ADJUSTABLE, 4-CONE	8" DIA	24" X 24"	240	0.07"	17	4-WAY	
R-1	PRICE	530	STEEL RETURN, 3/4" SPACING, 45 DEG VANES	6" X 6"	7.75" X 7.75"	40	0.05"	20		4"Ø DUCT RUNOUT
R-2	PRICE	530	STEEL RETURN, 3/4" SPACING, 45 DEG VANES	8" X 6"	9.75" X 9.75"	130	0.05"	20		6"Ø DUCT RUNOUT
R-3	PRICE	530	STEEL RETURN, 3/4" SPACING, 45 DEG VANES	10" X 10"	11.75" X 11.75"	220	0.05"	20		8"Ø DUCT RUNOUT
R-4	PRICE	530	STEEL RETURN, 3/4" SPACING, 45 DEG VANES	12" X 12"	13.75" X 13.75"	360	0.05"	20		10"Ø DUCT RUNOUT
R-5	PRICE	530D	STEEL RETURN, 3/4" SPACING, 45 DEG VANES, W/DAMPER	6" X 6"	7.75" X 7.75"	40	0.05"	20		
R-6	PRICE	530D	STEEL RETURN, 3/4" SPACING, 45 DEG VANES, W/DAMPER	8" X 6"	9.75" X 9.75"	130	0.05"	20		
R-7	PRICE	530D	STEEL RETURN, 3/4" SPACING, 45 DEG VANES, W/DAMPER	10" X 10"	11.75" X 11.75"	150	0.05"	20		
R-8	PRICE	530D	STEEL RETURN, 3/4" SPACING, 45 DEG VANES, W/DAMPER	10" X 10"	11.75" X 11.75"	220	0.05"	20		
R-9	PRICE	530D	STEEL RETURN, 3/4" SPACING, 45 DEG VANES, W/DAMPER	12" X 8"	13.75" X 9.75"	240	0.05"	20		
R-10	PRICE	530D	STEEL RETURN, 3/4" SPACING, 45 DEG VANES, W/DAMPER	16" X 10"	17.75" X 11.75"	360	0.05"	20		
R-11	PRICE	530	STEEL RETURN, 3/4" SPACING, 45 DEG VANES	22" X 22"	23.75" X 23.75"	1,000	0.05"	20		

VARIABLE REFRIGERANT FLOW (VRF) - OUTDOOR UNIT SIZE SCHEDULE										
TAG	UNIT LOCATION	AREAS SERVED	CU SIZE	QTY HP ON SYSTEM	NOMINAL CAPACITY	CORRECTED CAPACITY	COOLING	HEATING	COOLING TOTAL	HEATING MINIMUM
CU0 1-1	GRADE	1st FLR - PH 1 - DORMS	A	6	36,000	36,000	33,300	34,250	36,000	36,000
CU0 1-2	GRADE	1st FLR - PH 1 - DORMS	A	5	36,000	36,000	33,300	34,250	36,000	36,000
CU1 1-1	GRADE	1st FLR - PH 1 - DORMS	A	6	36,000	36,000	33,300	34,250	36,000	36,000
CU1 1-2	GRADE	1st FLR - PH 1 - DORMS	A	6	36,000	36,000	33,300	34,250	36,000	36,000
CU1 4-1	GRADE	1st FLR - PH 4 - APARTMENT	C	3	22,000	25,000	21,500	20,950	22,000	25,000
CU1 4-2	GRADE	1st FLR - PH 4 - HEALTH SERVICES	A	5	36,000	36,000	33,300	34,250	36,000	36,000
SYSTEMS LISTED ABOVE THIS LINE ARE BID ALTERNATE #3										
CU2 1-1	ROOF	2nd FLR - PH 1 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU2 1-2	ROOF	2nd FLR - PH 1 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU2 1-3	ROOF	2nd FLR - PH 1 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU2 2-1	ROOF	2nd FLR - PH 2 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU2 2-2	ROOF	2nd FLR - PH 2 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU2 2-3	ROOF	2nd FLR - PH 2 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU2 3-1	ROOF	2nd FLR - PH 3 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU2 3-2	ROOF	2nd FLR - PH 3 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU2 3-3	ROOF	2nd FLR - PH 3 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU2 4-1	ROOF	2nd FLR - PH 4 - DORMS	A	6	36,000	36,000	33,300	34,250	36,000	36,000
CU2 4-2	ROOF	2nd FLR - PH 4 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU2 4-3	ROOF	2nd FLR - PH 4 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU3 1-1	ROOF	3rd FLR - PH 1 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU3 1-2	ROOF	3rd FLR - PH 1 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU3 1-3	ROOF	3rd FLR - PH 1 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU3 2-1	ROOF	3rd FLR - PH 2 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU3 2-2	ROOF	3rd FLR - PH 2 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU3 2-3	ROOF	3rd FLR - PH 2 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU3 3-1	ROOF	3rd FLR - PH 3 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU3 3-2	ROOF	3rd FLR - PH 3 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU3 3-3	ROOF	3rd FLR - PH 3 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU3 4-1	ROOF	3rd FLR - PH 4 - DORMS	A	6	36,000	36,000	33,300	34,250	36,000	36,000
CU3 4-2	ROOF	3rd FLR - PH 4 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU3 4-3	ROOF	3rd FLR - PH 4 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU4 1-1	ROOF	4th FLR - PH 1 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU4 1-2	ROOF	4th FLR - PH 1 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU4 1-3	ROOF	4th FLR - PH 1 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU4 2-1	ROOF	4th FLR - PH 2 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU4 2-2	ROOF	4th FLR - PH 2 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU4 2-3	ROOF	4th FLR - PH 2 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU4 3-1	ROOF	4th FLR - PH 3 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU4 3-2	ROOF	4th FLR - PH 3 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU4 3-3	ROOF	4th FLR - PH 3 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU4 4-1	ROOF	4th FLR - PH 4 - DORMS	A	6	36,000	36,000	33,300	34,250	36,000	36,000
CU4 4-2	ROOF	4th FLR - PH 4 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000
CU4 4-3	ROOF	4th FLR - PH 4 - DORMS	B	8	48,000	54,000	43,450	40,000	48,000	54,000

NOTES:  
1. CU size assigned here, see VRF Outdoor Unit Performance Schedule for CU performances.

MAKE-UP AIR UNIT SCHEDULE (238219)		
GENERAL	TAG	MUA-1-21
SERVES		LAUNDRY MUA, PHASE 2
LOCATION		FIRST FLOOR (1)
TYPE		BLOWER COIL UNIT
MFR		TRANE
MODEL		BCH054
FILTER SECTION	FILTERS (OA)	MERV 8
SUPPLY AIR FAN	TYPE	ODP, BI
	AIRFLOW (cfm)	

Table with 3 columns: Abbreviation, Description, and Code. Includes entries like AMPERE, ALTERNATING CURRENT, ABOVE FINISHED FLOOR, etc.

Table with 3 columns: Abbreviation, Description, and Code. Includes entries like MICROPHONE, MICROWAVE, MAIN LUG ONLY, MOUNT, etc.

NOTE: SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT NECESSARILY INDICATE THEIR INCORPORATION INTO THE DESIGN

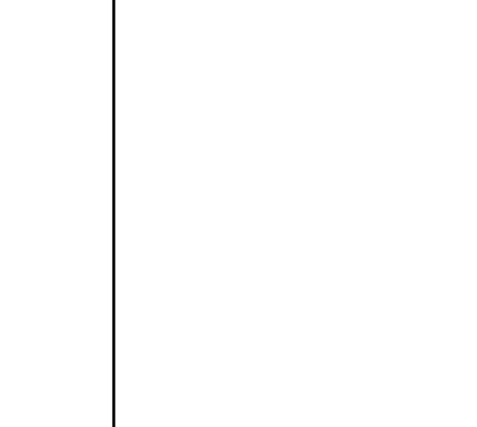
PROJECT NOTES: 1. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED UNLESS OTHERWISE SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS...

INSTALLATION COORDINATION NOTES: 1. PRIOR TO ROUGH-IN OF ELECTRICAL PROVISIONS FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT PROVIDED BY OTHER TRADES...

WIRING NOTES: 1. UNLESS OTHERWISE INDICATED ON PLANS OR IN SPECIFICATIONS, ALL CONDUCTORS, POWER DISTRIBUTION EQUIPMENT BISSING AND TRANSFORMER WINDINGS SHALL BE FABRICATED OF 8% CONDUCTIVE COPPER MATERIAL...

SYSTEM POWER WIRING NOTES: 1. ALL VIDEO PROJECTOR, CAMERA AND MONITOR POWER OUTLETS AND THEIR ASSOCIATED COMPUTER POWER OUTLETS FEELING THE VIDEO SOURCE ARE TO BE CONNECTED TO THE SAME PHASE TO ELIMINATE THE POTENTIAL FOR VIDEO INTERFERENCE...

F4 ELECTRICAL GENERAL NOTES



SINGLE RECEPTACLES

SPECIAL RECEPTACLE - REFER TO SPECIAL RECEPTACLE SCHEDULE FOR AMPACITY, NEMA CONFIGURATION, WIRE SIZE AND ADDITIONAL RELATED INFORMATION FOR ASSOCIATED LETTER

NOTES: 1. PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES 2. MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFG UNO

FLOOR AND CEILING DEVICES

OVERHEAD RECEPTACLE DROP, DOUBLE DUPLEX OR GORD REEL

RECEPTACLES

DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, NEMA 5-20R DOUBLE DUPLEX RECEPTACLE

NOTES

1. MOUNT RECEPTACLES WITH CENTERLINE AT 18" AFF UNO 2. MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFG UNO

LIGHTING SWITCHES

LIGHT SWITCH, 20A, 125/277V MULTI-GANGED SWITCHES, GANG UNDER ONE PLATE, LETTER INDICATES SWITCHING

EMERGENCY AND EXIT LIGHTING

HATCHING INDICATES FIXTURE CONNECTED TO CENTRAL INVERTER UNLVD. FIXTURES SHALL AUTOMATICALLY SWITCH ON AND BYPASS ANY CONTROLS ON UPON FIRE ALARM OR LOSS OF NORMAL POWER

TYPICAL FOR ALL FIXTURE TYPES

INDICATES LUMINAIRE TYPE ON SCHEDULE

LOWER CASE LETTER INDICATES SWITCHING

REVISIONS

Table with 3 columns: No., Date, Description. Includes entries like FIRE ALARM CONTROL PANEL, FIRE ALARM ANNUNCIATOR, SMOKE DETECTOR, etc.

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JOB NO. 075982

ISSUE

100% CONSTRUCTION DOCUMENTS - ISSUED FOR BIDDING

11/22/2023

TITLE ELECTRICAL LEGEND

SHEET E000



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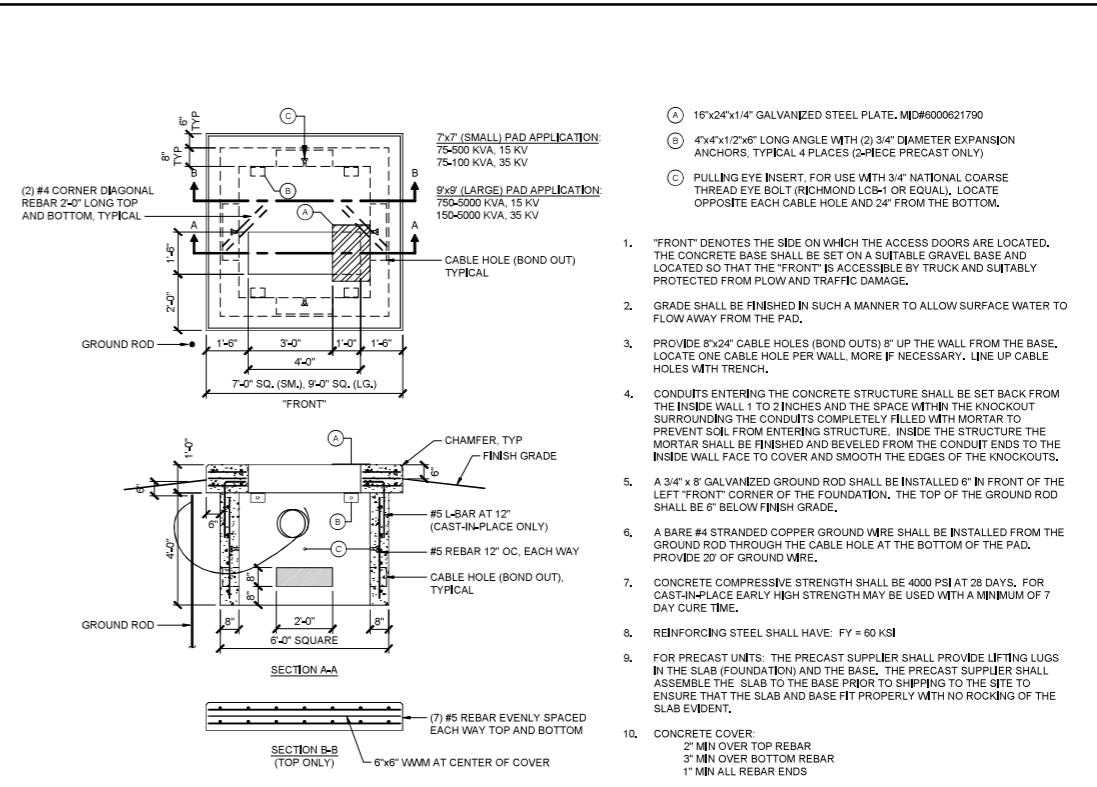
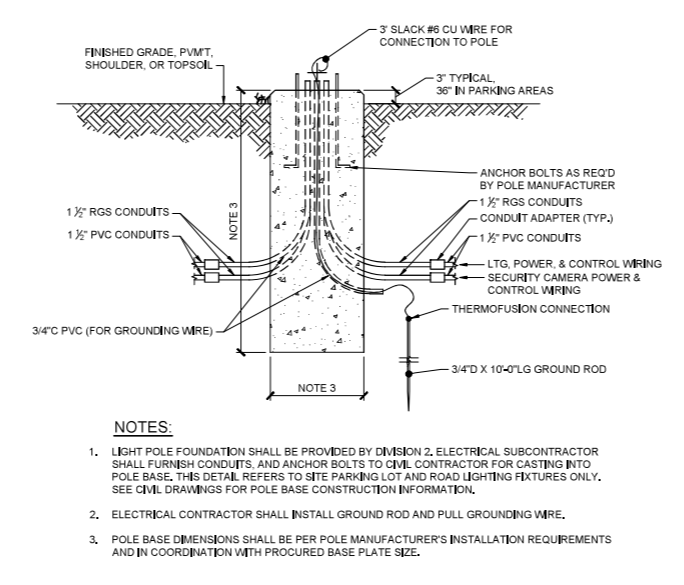
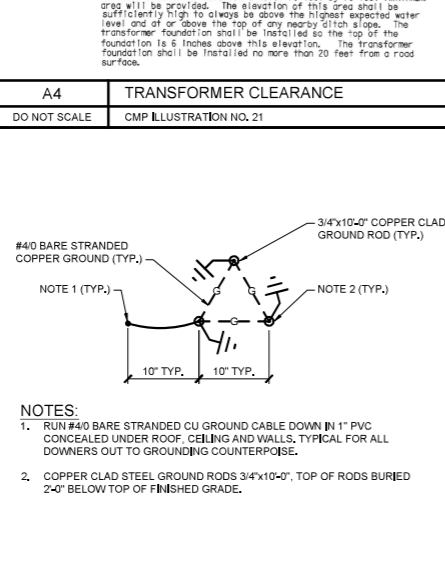
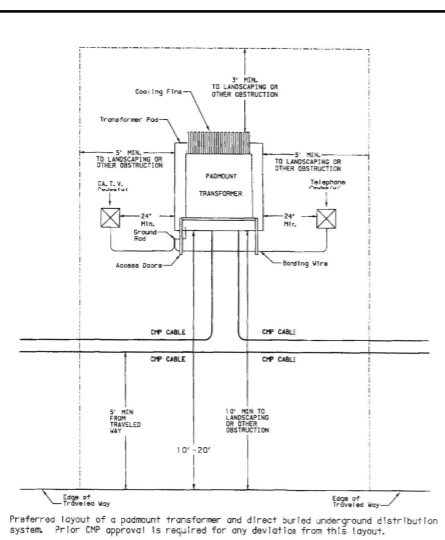
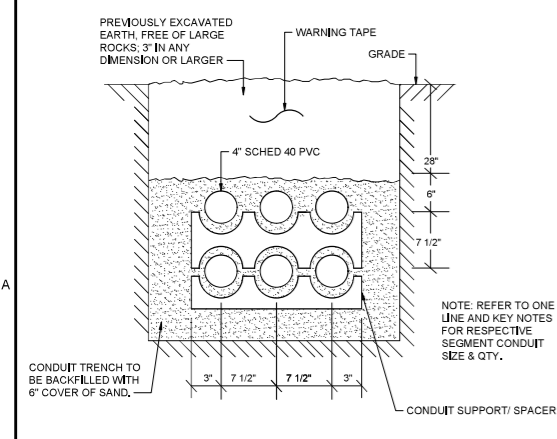
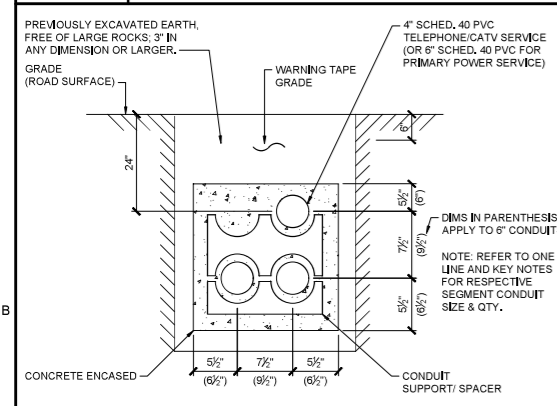
CURTIS HALL RENOVATIONS Maine Maritime Academy, Curtis Hall 1 Pleasant Street, Castine, Maine 04421



- OH — OVERHEAD WIRING, TYPE AS INDICATED
- (E)UG — UNDERGROUND OR UNDERSLAB WIRING, TYPE AS INDICATED
- UTILITY POLE
- ⊞ FUSED DISCONNECT SWITCH
- ⊞ NON-FUSED DISCONNECT SWITCH
- ⊞ MOTOR
- ⊞ GROUNDING SYSTEM
- ⊞ JUNCTION BOX, WALL MOUNTED
- ⊞ JUNCTION BOX, IN-GROUND
- ⊞ ELECTRICAL MANHOLE, COORDINATE LOCATION WITH OTHER UNDERGROUND UTILITIES
- ⊞ PADMOUNT TRANSFORMER, (F) DENOTES FRONT SIDE OF TRANSFORMER, ANY BOLLARDS ON THE FRONT SIDE SHALL BE REMOVABLE.
- ⊞ 4'x6' PULL BOX WITH 32" COVER PLATE IN ACCORDANCE WITH UTILITY STANDARDS
- ⊞ PRIMARY SWITCH
- ⊞ HANDHOLE, MINIMUM 18"x36"x24", SIZE PER NEC FOR NUMBER OF CONDUITS INSTALLED
- ⊞ ELECTRICAL POWER TRANSFORMER VAULT
- ⊞ ELECTRICAL POWER CABLE MANHOLE
- ⊞ COMMUNICATIONS CABLE MANHOLE (LARGE)
- ⊞ COMMUNICATIONS CABLE MANHOLE (SMALL)
- ⊞ METER & CT
- ⊞ SINGLE POLE MOUNTED LIGHT
- ⊞ DOUBLE POLE MOUNTED LIGHT
- ⊞ WALL MOUNTED LIGHT FIXTURE
- ⊞ GRADE-MOUNTED OR BOLLARD FIXTURE
- ← SINGLE POLE HOMERUN: (2)#12+(1)#12G UNO, CONNECT TO PANEL INDICATED
- ← SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT, CONNECT TO PANEL INDICATED
- ← 3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT, CONNECT TO PANEL INDICATED
- ⊞ A1 DETAIL CALL-OUT
- ⊞ A1 SECTION/ELEVATION CALL-OUT

**NOTE**  
 SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT NECESSARILY INDICATE THEIR INCORPORATION INTO THE DESIGN

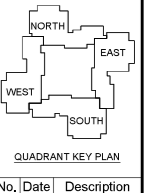
**A2 ELECTRICAL SYMBOL LEGEND**



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No.	Date	Description
		Revision Schedule
NOT FOR CONSTRUCTION		
JOB NO. 076982		
ISSUE 100% CONSTRUCTION DOCUMENTS - ISSUED FOR BIDDING 11/22/2023		
TITLE ELECTRICAL SITE DETAILS AND NOTES		
SHEET ES0.1		

Nov 21, 2023 - 7:53pm  
 N:\Projects\2023\22091 - MMA, Curtis Hall Renovations\4a DRAWINGS - Rev4 Version 23\_22091\_ES.dwg



- 1 REMOVE EXISTING PAD-MOUNTED TRANSFORMER AND SECONDARY CONDUCTORS INTO BUILDING, TRANSFORMER VAULT SHALL REMAIN AND BECOME USED AS A CABLE VAULT.
- 2 INTERCEPT EXISTING PRIMARY DUCT BANK AND EXTEND AND RE-ROUTE TO NEW PAD-MOUNTED TRANSFORMER, MATCH EXISTING CONDUIT SIZE, ARRANGEMENT, AND CABLE TYPE.
- 3 REMOVE PORTION OF EXISTING UNDERGROUND PRIMARY DUCT BANK.
- 4 INTERCEPT EXISTING BRANCH CIRCUIT WIRING SERVING SITE LIGHTING POLES AND RE-ROUTE AS NECESSARY TO ACCOMMODATE NEW SITE GRADING, MATCH EXISTING CONDUIT SIZE, ARRANGEMENT, AND CABLE TYPE.
- 5 REMOVE PORTION OF EXISTING SITE LIGHTING BRANCH CIRCUIT.
- 6 PROVIDE NEW LIGHT POLE BASE IN SAME LOCATION AS EXISTING LIGHT POLE BASE BEING REMOVED TO ACCOMMODATE NEW SITE GRADING, RE-MOUNT AND RE-WIRE EXISTING LIGHT POLE TO NEW BASE.
- 7 TRIPLE SWITCH+ WALL MOUNT 30" AFG, MINIMUM AND COORDINATE EXACT LOCATION TO FACILITATE CONNECTION OF TEMPORARY GENERATOR CABLES.

- A PRIMARY ELECTRIC
  - MATCH EXISTING CONDUIT SIZES AND ARRANGEMENT AND CABLE TYPE
- B BUILDING NORMAL POWER SERVICE ENTRANCE
  - SEE RISER DIAGRAM
- C BUILDING STANDBY POWER FEEDER
  - SEE RISER DIAGRAM
- D FIRE PUMP NORMAL POWER FEEDER
  - SEE RISER DIAGRAM
- F FIRE PUMP STANDBY POWER FEEDER
  - SEE RISER DIAGRAM
- G GENERATOR SUPPORT CONDUITS
  - (1) 1" GENEATOR JACKET WATER HEATER AND STRIP HEATER - CKT. \_\_\_\_\_
  - (1) 1" GENEATOR BATTERY CHARGER - CKT. \_\_\_\_\_
  - (1) 1" GENEATOR START CIRCUIT - CKT. \_\_\_\_\_
  - (1) 1" GENEATOR REMOTE ANNUNCIATOR \_\_\_\_\_
  - (1) 1" GENEATOR REMOTE EMERGENCY STOP \_\_\_\_\_
  - COORDINATE FINAL WIRING SIZE AND QUANTITY WITH APPROVED SUBMITTAL MANUFACTURER'S INSTALLATION REQUIREMENTS FOR EACH ACCESSORY ITEM OR UNIT COMPONENT
- H SITE LIGHTING CONDUIT
  - MATCH EXISTING CONDUIT AND WIRE SIZE

E2	KEYNOTES

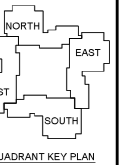
E1	CONDUIT KEYNOTES



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No.	Date	Description

Revision	Schedule

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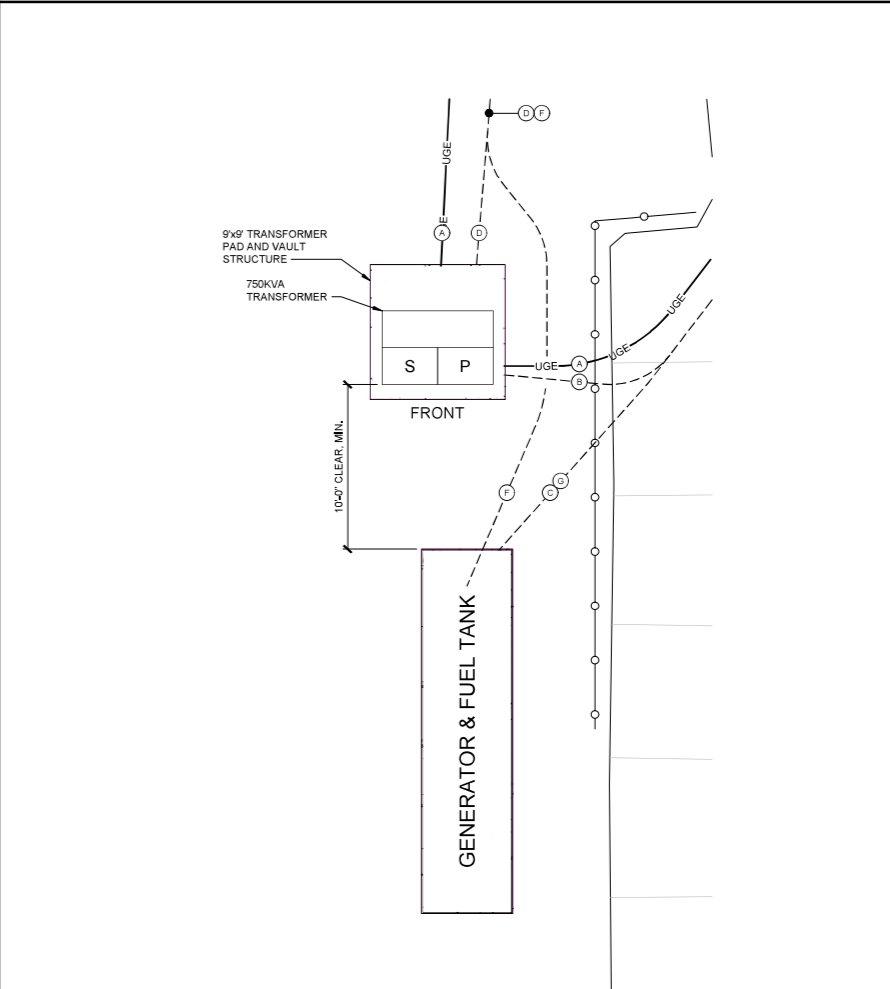
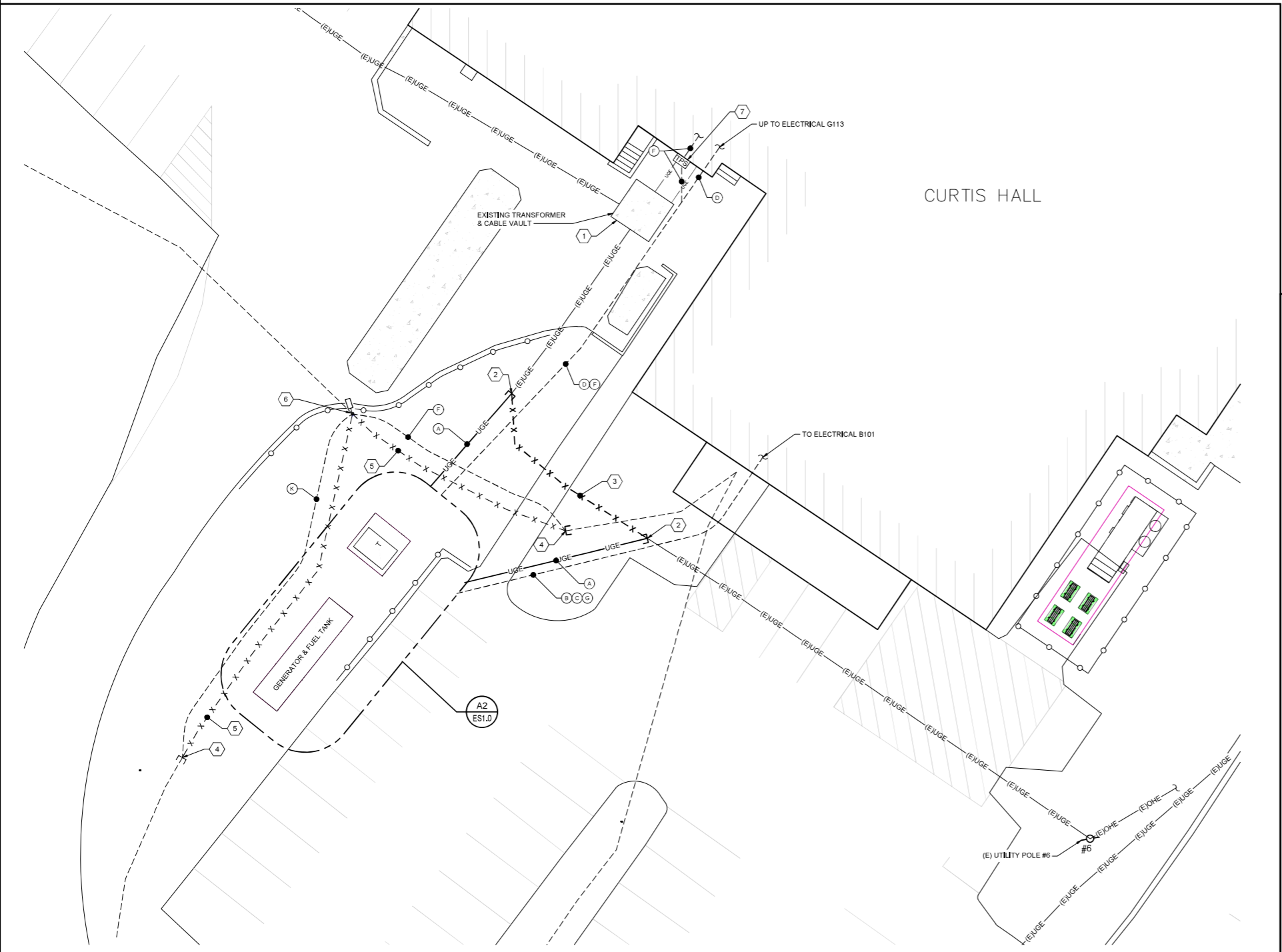
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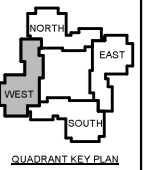
TITLE  
ELECTRICAL SITE PLAN

SHEET  
**ES1.0**

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A6	ELECTRICAL SITE PLAN	A2	DETAIL AREA
SCALE: 1"=10'-0"		SCALE: 1"=5'-0"	



No.	Date	Description
		Revision Schedule

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075982

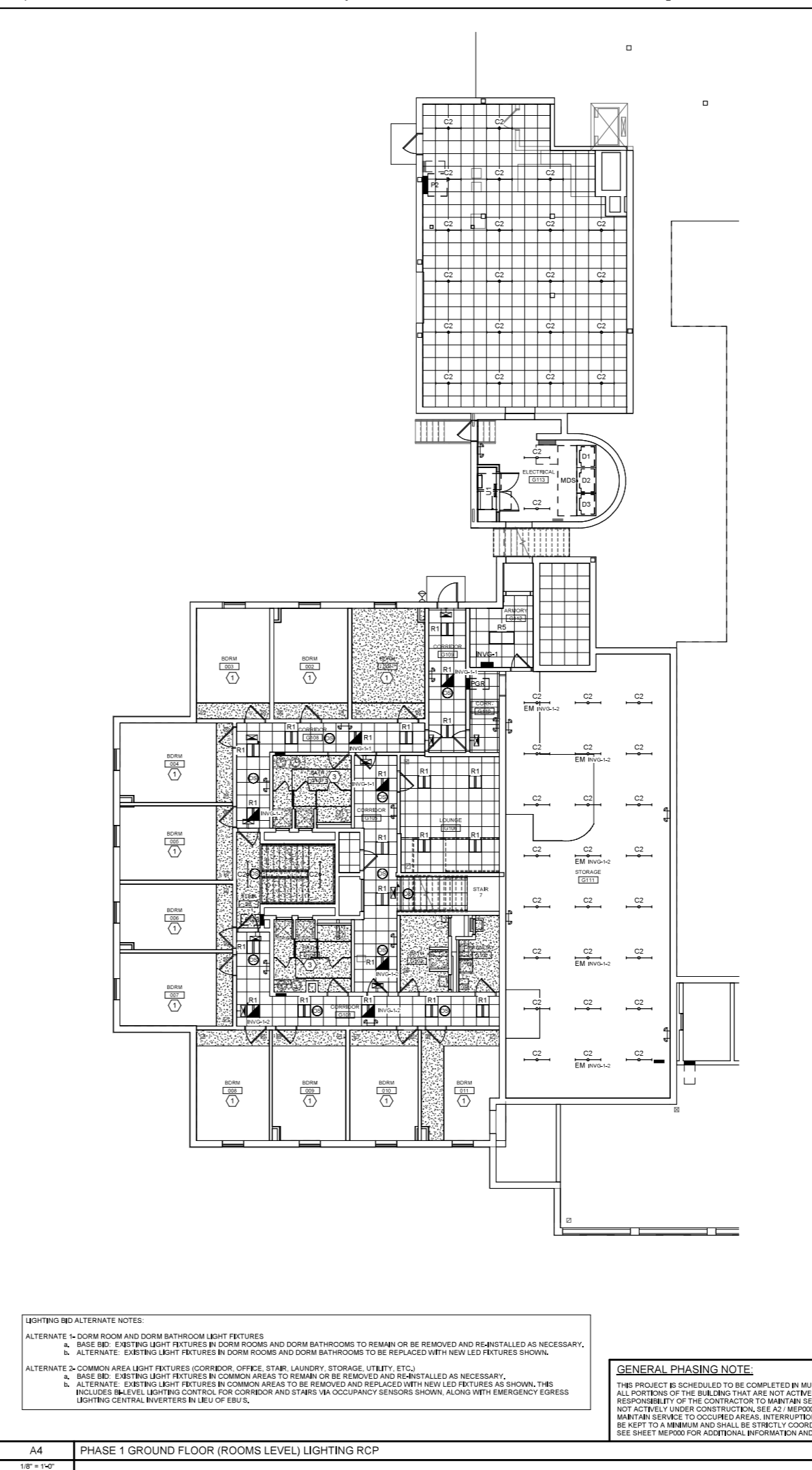
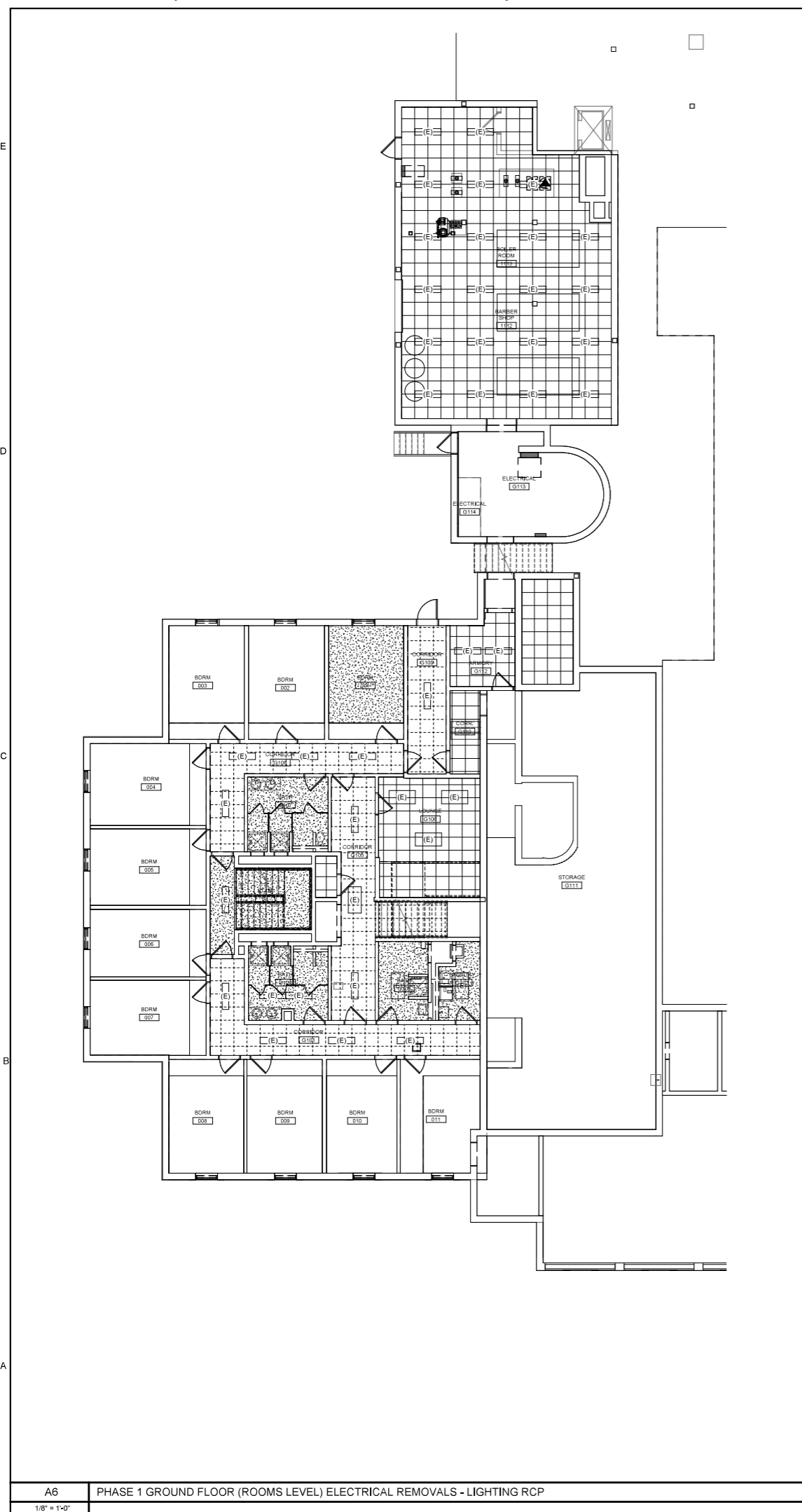
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100% CONSTRUCTION DOCUMENTS - ISSUED FOR BIDDING

11/22/2023

TITLE  
PHASE 1 GROUND FLOOR (ROOMS LEVEL) LIGHTING REMOVALS & NEW PLANS

SHEET  
**EL101.0**



**LIGHTING BID ALTERNATE NOTES:**  
ALTERNATE 1- DORM ROOM AND DORM BATHROOM LIGHT FIXTURES  
a. BASE BID: EXISTING LIGHT FIXTURES IN DORM ROOMS AND DORM BATHROOMS TO REMAIN OR BE REMOVED AND RE-INSTALLED AS NECESSARY.  
b. ALTERNATE: EXISTING LIGHT FIXTURES IN DORM ROOMS AND DORM BATHROOMS TO BE REPLACED WITH NEW LED FIXTURES SHOWN.  
ALTERNATE 2- COMMON AREA LIGHT FIXTURES (CORRIDOR, OFFICE, STAIR, LAUNDRY, STORAGE, UTILITY, ETC.)  
a. BASE BID: EXISTING LIGHT FIXTURES IN COMMON AREAS TO REMAIN OR BE REMOVED AND RE-INSTALLED AS NECESSARY.  
b. ALTERNATE: EXISTING LIGHT FIXTURES IN COMMON AREAS TO BE REMOVED AND REPLACED WITH NEW LED FIXTURES AS SHOWN. THIS INCLUDES B-LEVEL LIGHTING CONTROL FOR CORRIDOR AND STAIRS VIA OCCUPANCY SENSORS SHOWN, ALONG WITH EMERGENCY EGRESS LIGHTING CENTRAL INVERTERS IN LIEU OF EBUS.

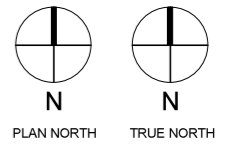
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D1	KEYNOTES- LIGHTING REMOVALS
----	-----------------------------

**LIGHTING CONTROL GENERAL NOTES:**  
1. UNLESS NOTED OTHERWISE, LIGHTING SHALL BE CONNECTED TO EXISTING CIRCUITING AND CONTROLS.  
2. IN STAIRWELLS, LIGHTING SHALL BE CONTINUOUSLY ON AT 50% OUTPUT AND RAISE TO 100% OUTPUT UPON ACTIVATION OF ANY OCCUPANCY SENSOR IN THE STAIRWELL.  
3. IN CORRIDORS, LIGHTING SHALL BE CONTINUOUSLY ON AT 50% OUTPUT AND RAISE TO 100% OUTPUT UPON ACTIVATION OF ANY OCCUPANCY SENSOR IN THE INDICATED SWITCH GROUP.

- ① TYPICAL DORM ROOM-MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D6 ON SHEET E400.
- ② TYPICAL SMALL DORM RESTROOM-MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D3 ON SHEET E400.
- ③ TYPICAL LARGE DORM RESTROOM-MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D4 ON SHEET E400.
- ④ TYPICAL LAUNDRY ROOM-MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL X ON SHEET XX.
- ⑤ TYPICAL SMALL STORAGE ROOM OR ELECTRICAL CLOSET-MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL X ON SHEET XX.
- ⑥ CENTRAL INVERTER TO BE LOCATED IN THIS ROOM. THIS INVERTER SHALL SERVE ALL EMERGENCY LIGHTS ON THIS FLOOR WITHIN THE BOUNDARIES OF THIS PHASE.
- ⑦ TYPICAL SMALL RESTROOM-MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D5 ON SHEET E400.

A1	KEYNOTES- NEW LIGHTING
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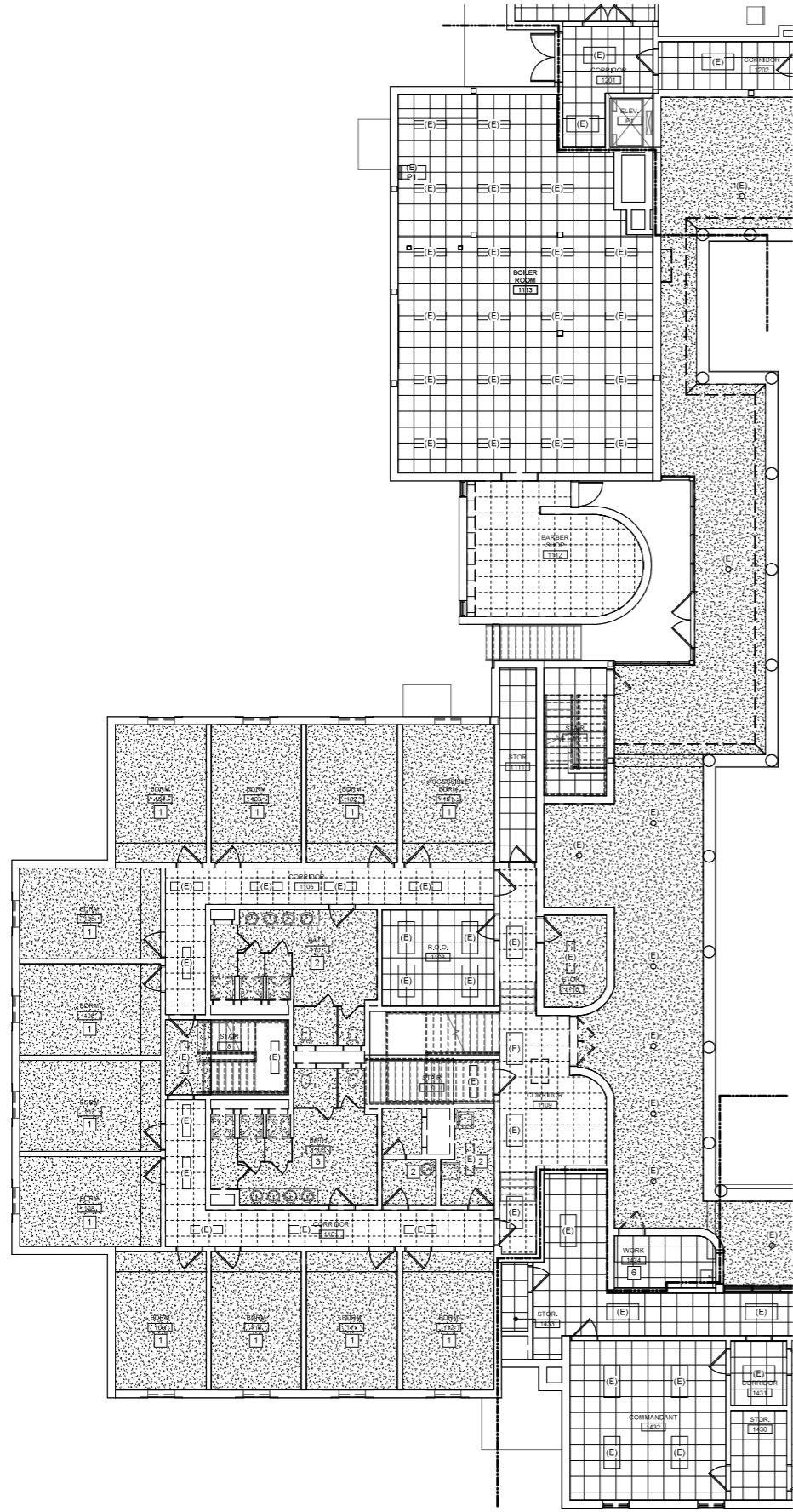
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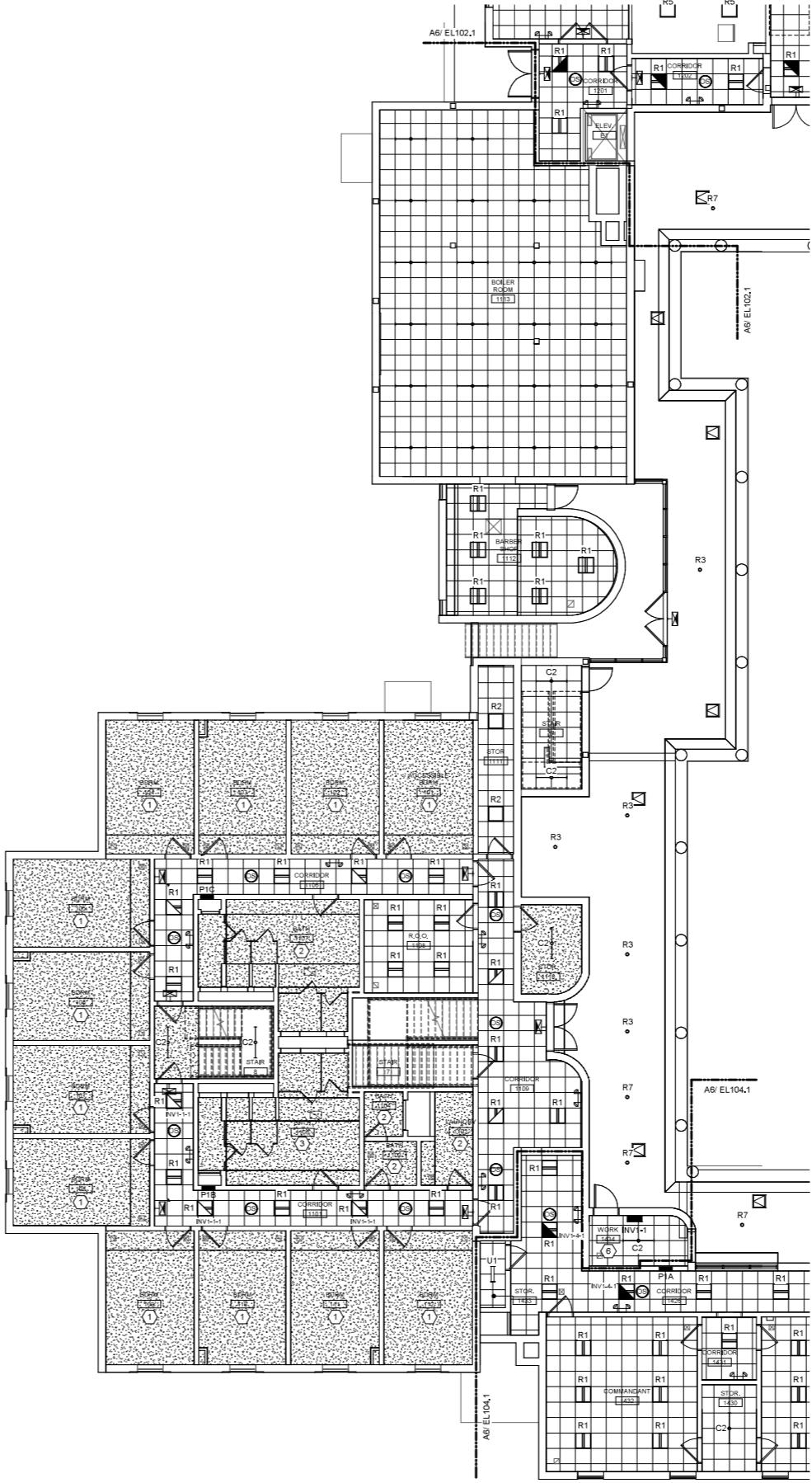
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B

A



A6 PHASE 1 FIRST FLOOR ELECTRICAL REMOVALS - LIGHTING RCP  
1/8" = 1'-0"



**LIGHTING BID ALTERNATE NOTES:**  
 ALTERNATE 1- DORM ROOM AND DORM BATHROOM LIGHT FIXTURES  
 a. BASE BID: EXISTING LIGHT FIXTURES IN DORM ROOMS AND DORM BATHROOMS TO REMAIN OR BE REMOVED AND RE-INSTALLED AS NECESSARY.  
 b. ALTERNATE: EXISTING LIGHT FIXTURES IN DORM ROOMS AND DORM BATHROOMS TO BE REPLACED WITH NEW LED FIXTURES SHOWN.  
 ALTERNATE 2- COMMON AREA LIGHT FIXTURES (CORRIDOR, OFFICE, STAIR, LAUNDRY, STORAGE, UTILITY, ETC.)  
 a. BASE BID: EXISTING LIGHT FIXTURES IN COMMON AREAS TO REMAIN OR BE REMOVED AND RE-INSTALLED AS NECESSARY.  
 b. ALTERNATE: EXISTING LIGHT FIXTURES IN COMMON AREAS TO BE REMOVED AND REPLACED WITH NEW LED FIXTURES AS SHOWN, THIS INCLUDES 0-LEVEL LIGHTING CONTROL FOR CORRIDOR AND STAIRS VIA OCCUPANCY SENSORS SHOWN, ALONG WITH EMERGENCY EGRESS LIGHTING CENTRAL INVERTERS IN LIEU OF EBUS.

**GENERAL PHASING NOTE:**  
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A4 PHASE 1 FIRST FLOOR LIGHTING RCP  
1/8" = 1'-0"

D1	KEYNOTES- LIGHTING REMOVALS
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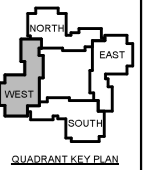
**LIGHTING CONTROL GENERAL NOTES:**  
 1. UNLESS NOTED OTHERWISE, LIGHTING SHALL BE CONNECTED TO EXISTING CIRCUITING AND CONTROLS.  
 2. IN STAIRWELLS, LIGHTING SHALL BE CONTINUOUSLY ON AT 50% OUTPUT AND RAISE TO 100% OUTPUT UPON ACTIVATION OF ANY OCCUPANCY SENSOR IN THE STAIRWELL.  
 3. IN CORRIDORS, LIGHTING SHALL BE CONTINUOUSLY ON AT 50% OUTPUT AND RAISE TO 100% OUTPUT UPON ACTIVATION OF ANY OCCUPANCY SENSOR IN THE INDICATED SWITCH GROUP.

- ① TYPICAL DORM ROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D6 ON SHEET E400.
- ② TYPICAL SMALL DORM RESTROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D3 ON SHEET E400.
- ③ TYPICAL LARGE DORM RESTROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D4 ON SHEET E400.
- ④ TYPICAL LAUNDRY ROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL X ON SHEET XX.
- ⑤ TYPICAL SMALL STORAGE ROOM OR ELECTRICAL CLOSET- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL X ON SHEET XX.
- ⑥ CENTRAL INVERTER TO BE LOCATED IN THIS ROOM. THIS INVERTER SHALL SERVE ALL EMERGENCY LIGHTS ON THIS FLOOR WITHIN THE BOUNDARIES OF THIS PHASE.
- ⑦ TYPICAL SMALL RESTROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D5 ON SHEET E400.

A1	KEYNOTES- NEW LIGHTING
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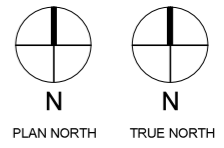
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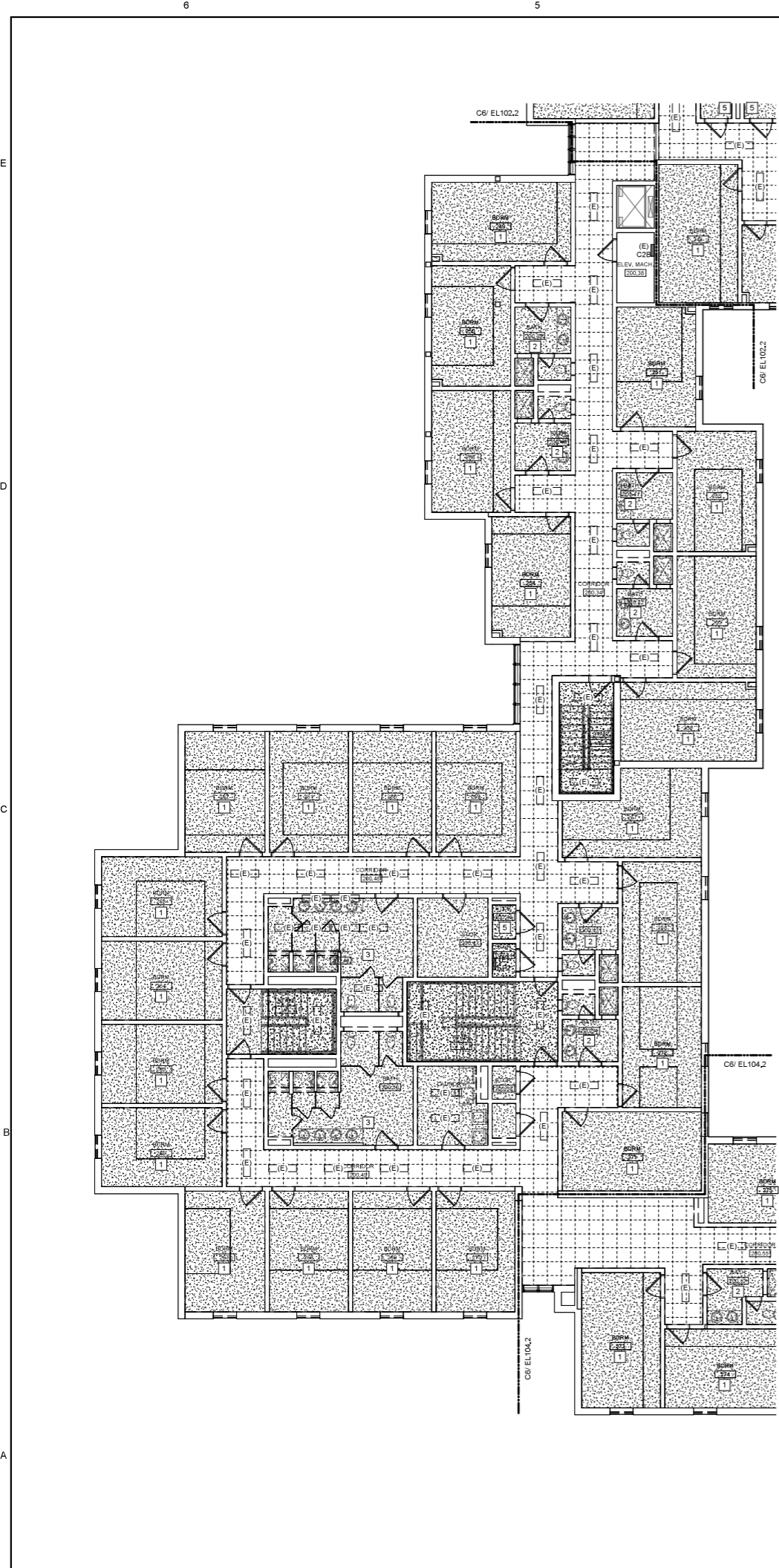
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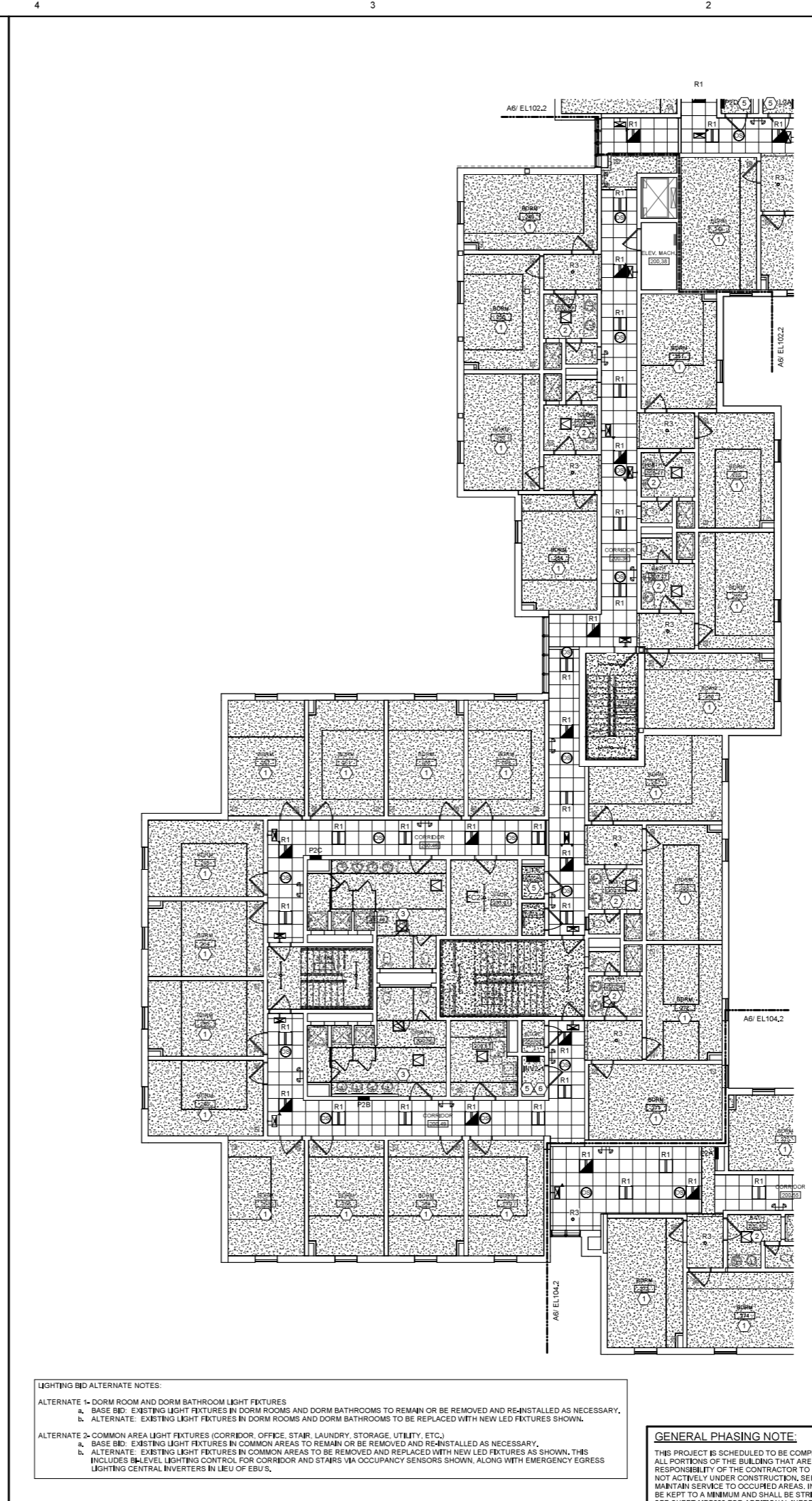
TITLE  
 PHASE 1 FIRST FLOOR LIGHTING REMOVALS & NEW PLANS

SHEET  
**EL101.1**





A6 PHASE 1 SECOND FLOOR ELECTRICAL REMOVALS - LIGHTING RCP  
1/8" = 1'-0"

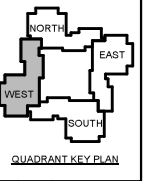


A4 PHASE 1 SECOND FLOOR LIGHTING RCP  
1/8" = 1'-0"

**LIGHTING BID ALTERNATE NOTES:**  
 ALTERNATE 1- DORM ROOM AND DORM BATHROOM LIGHT FIXTURES  
 a. BASE BID: EXISTING LIGHT FIXTURES IN DORM ROOMS AND DORM BATHROOMS TO REMAIN OR BE REMOVED AND RE-INSTALLED AS NECESSARY.  
 b. ALTERNATE: EXISTING LIGHT FIXTURES IN DORM ROOMS AND DORM BATHROOMS TO BE REPLACED WITH NEW LED FIXTURES SHOWN.  
 ALTERNATE 2- COMMON AREA LIGHT FIXTURES (CORRIDOR, OFFICE, STAIR, LAUNDRY, STORAGE, UTILITY, ETC.)  
 a. BASE BID: EXISTING LIGHT FIXTURES IN COMMON AREAS TO REMAIN OR BE REMOVED AND RE-INSTALLED AS NECESSARY.  
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D1 KEYNOTES- LIGHTING REMOVALS	
<p><b>LIGHTING CONTROL GENERAL NOTES:</b></p> <ol style="list-style-type: none"> <li>UNLESS NOTED OTHERWISE, LIGHTING SHALL BE CONNECTED TO EXISTING CIRCUITING AND CONTROLS.</li> <li>IN STAIRWELLS, LIGHTING SHALL BE CONTINUOUSLY ON AT 50% OUTPUT AND RAISE TO 100% OUTPUT UPON ACTIVATION OF ANY OCCUPANCY SENSOR IN THE STAIRWELL.</li> <li>IN CORRIDORS, LIGHTING SHALL BE CONTINUOUSLY ON AT 50% OUTPUT AND RAISE TO 100% OUTPUT UPON ACTIVATION OF ANY OCCUPANCY SENSOR IN THE INDICATED SWITCH GROUP.</li> </ol>	
<p>① TYPICAL DORM ROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D6 ON SHEET E400.</p> <p>② TYPICAL SMALL DORM RESTROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D3 ON SHEET E400.</p> <p>③ TYPICAL LARGE DORM RESTROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D4 ON SHEET E400.</p> <p>④ TYPICAL LAUNDRY ROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL X ON SHEET XX.</p> <p>⑤ TYPICAL SMALL STORAGE ROOM OR ELECTRICAL CLOSET- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL X ON SHEET XX.</p> <p>⑥ CENTRAL INVERTER TO BE LOCATED IN THIS ROOM. THIS INVERTER SHALL SERVE ALL EMERGENCY LIGHTS ON THIS FLOOR WITHIN THE BOUNDARIES OF THIS PHASE.</p> <p>⑦ TYPICAL SMALL RESTROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D5 ON SHEET E400.</p>	
A1 KEYNOTES- NEW LIGHTING	



No.	Date	Description
		Revision Schedule

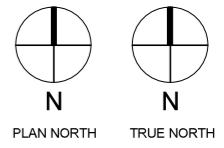
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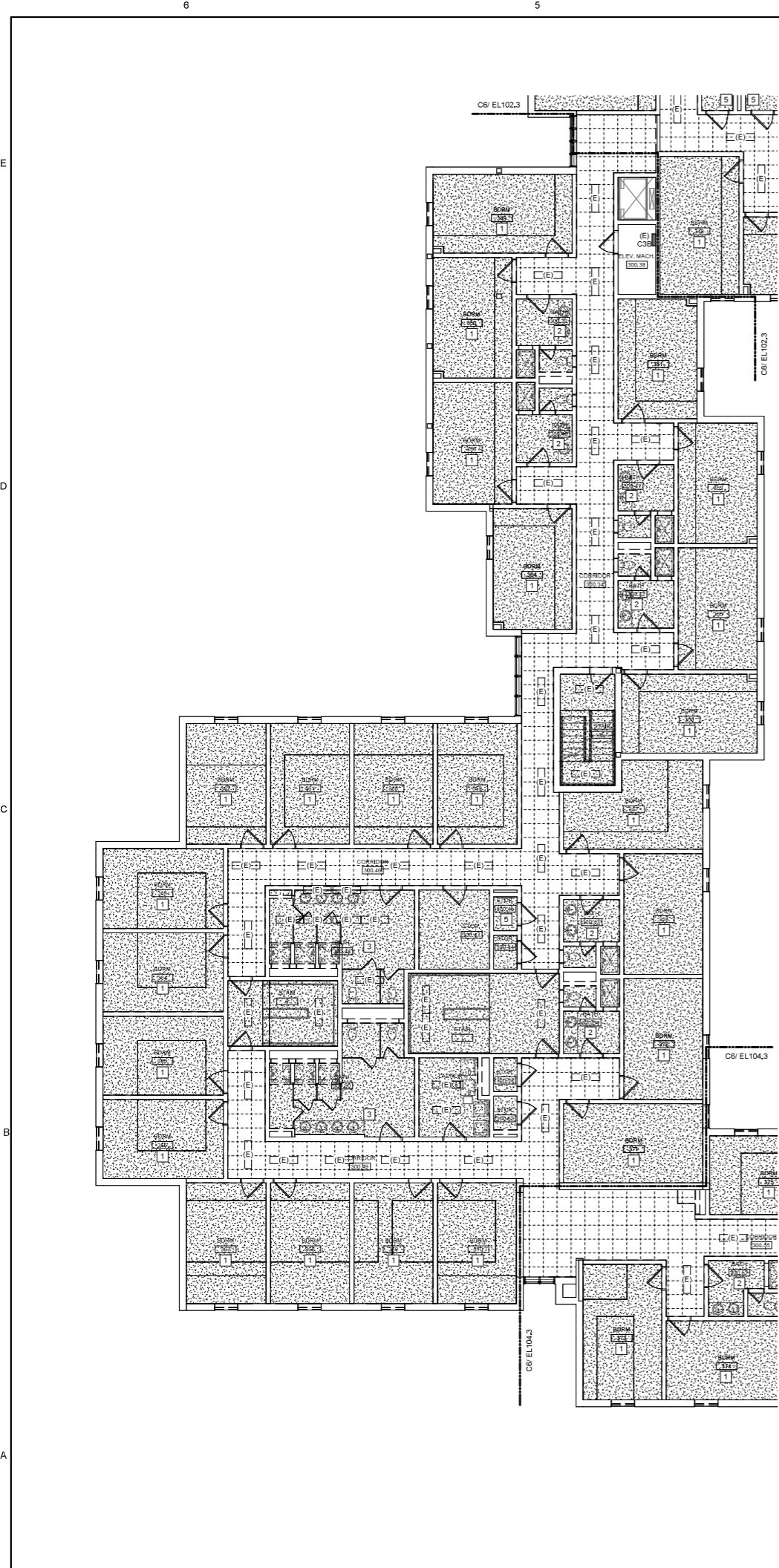
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TITLE  
 PHASE 1 SECOND FLOOR LIGHTING REMOVALS & NEW PLANS

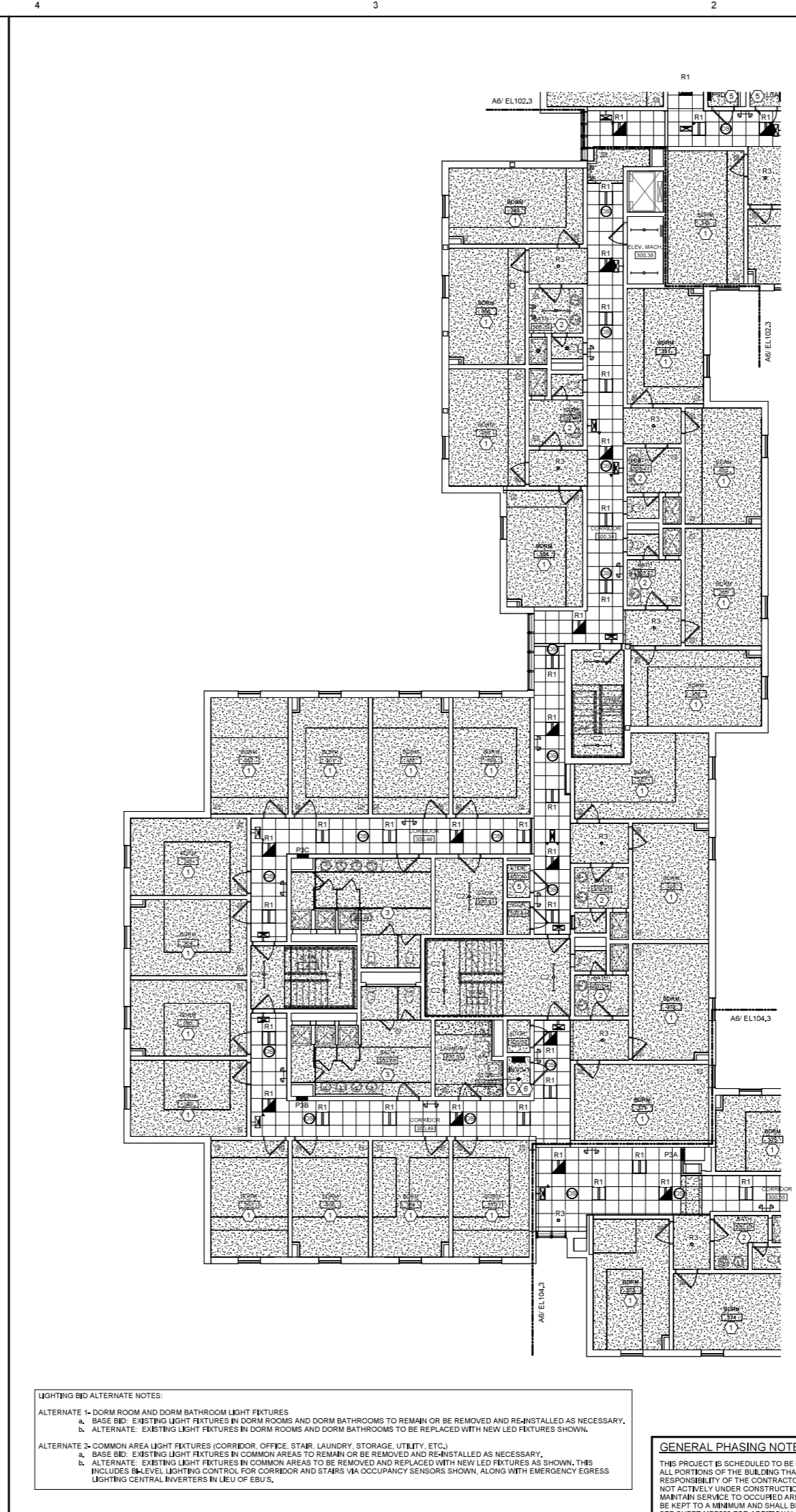
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A6 PHASE 1 THIRD FLOOR ELECTRICAL REMOVALS - LIGHTING RCP  
1/8" = 1'-0"

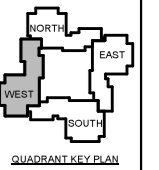


A4 PHASE 1 THIRD FLOOR LIGHTING RCP  
1/8" = 1'-0"

**LIGHTING BID ALTERNATE NOTES:**  
 ALTERNATE 1- DORM ROOM AND DORM BATHROOM LIGHT FIXTURES  
 a. BASE BID: EXISTING LIGHT FIXTURES IN DORM ROOMS AND DORM BATHROOMS TO REMAIN OR BE REMOVED AND RE-INSTALLED AS NECESSARY.  
 b. ALTERNATE: EXISTING LIGHT FIXTURES IN DORM ROOMS AND DORM BATHROOMS TO BE REPLACED WITH NEW LED FIXTURES SHOWN.  
 ALTERNATE 2- COMMON AREA LIGHT FIXTURES (CORRIDOR, OFFICE, STAIR, LAUNDRY, STORAGE, UTILITY, ETC.)  
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 b. ALTERNATE: EXISTING LIGHT FIXTURES IN COMMON AREAS TO BE REMOVED AND REPLACED WITH NEW LED FIXTURES AS SHOWN. THIS INCLUDES B-LEVEL LIGHTING CONTROL FOR CORRIDOR AND STAIRS VIA OCCUPANCY SENSORS SHOWN, ALONG WITH EMERGENCY EGRESS LIGHTING CENTRAL INVERTERS IN LIEU OF EBUS.

**GENERAL PHASING NOTE:**  
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D1 KEYNOTES- LIGHTING REMOVALS	
LIGHTING CONTROL GENERAL NOTES:	
1. UNLESS NOTED OTHERWISE, LIGHTING SHALL BE CONNECTED TO EXISTING CIRCUITING AND CONTROLS. 2. IN STAIRWELLS, LIGHTING SHALL BE CONTINUOUSLY ON AT 50% OUTPUT AND RAISE TO 100% OUTPUT UPON ACTIVATION OF ANY OCCUPANCY SENSOR IN THE STAIRWELL. 3. IN CORRIDORS, LIGHTING SHALL BE CONTINUOUSLY ON AT 50% OUTPUT AND RAISE TO 100% OUTPUT UPON ACTIVATION OF ANY OCCUPANCY SENSOR IN THE INDICATED SWITCH GROUP.	
① TYPICAL DORM ROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D6 ON SHEET E400. ② TYPICAL SMALL DORM RESTROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D3 ON SHEET E400. ③ TYPICAL LARGE DORM RESTROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D4 ON SHEET E400. ④ TYPICAL LAUNDRY ROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL X ON SHEET XX. ⑤ TYPICAL SMALL STORAGE ROOM OR ELECTRICAL CLOSET- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL X ON SHEET XX. ⑥ CENTRAL INVERTER TO BE LOCATED IN THIS ROOM. THIS INVERTER SHALL SERVE ALL EMERGENCY LIGHTS ON THIS FLOOR WITHIN THE BOUNDARIES OF THIS PHASE. ⑦ TYPICAL SMALL RESTROOM- MOUNT NEW FIXTURES IN SAME PLACE AS EXISTING FIXTURES BEING REMOVED, REFER TO DETAIL D5 ON SHEET E400.	
A1 KEYNOTES- NEW LIGHTING	



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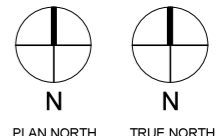
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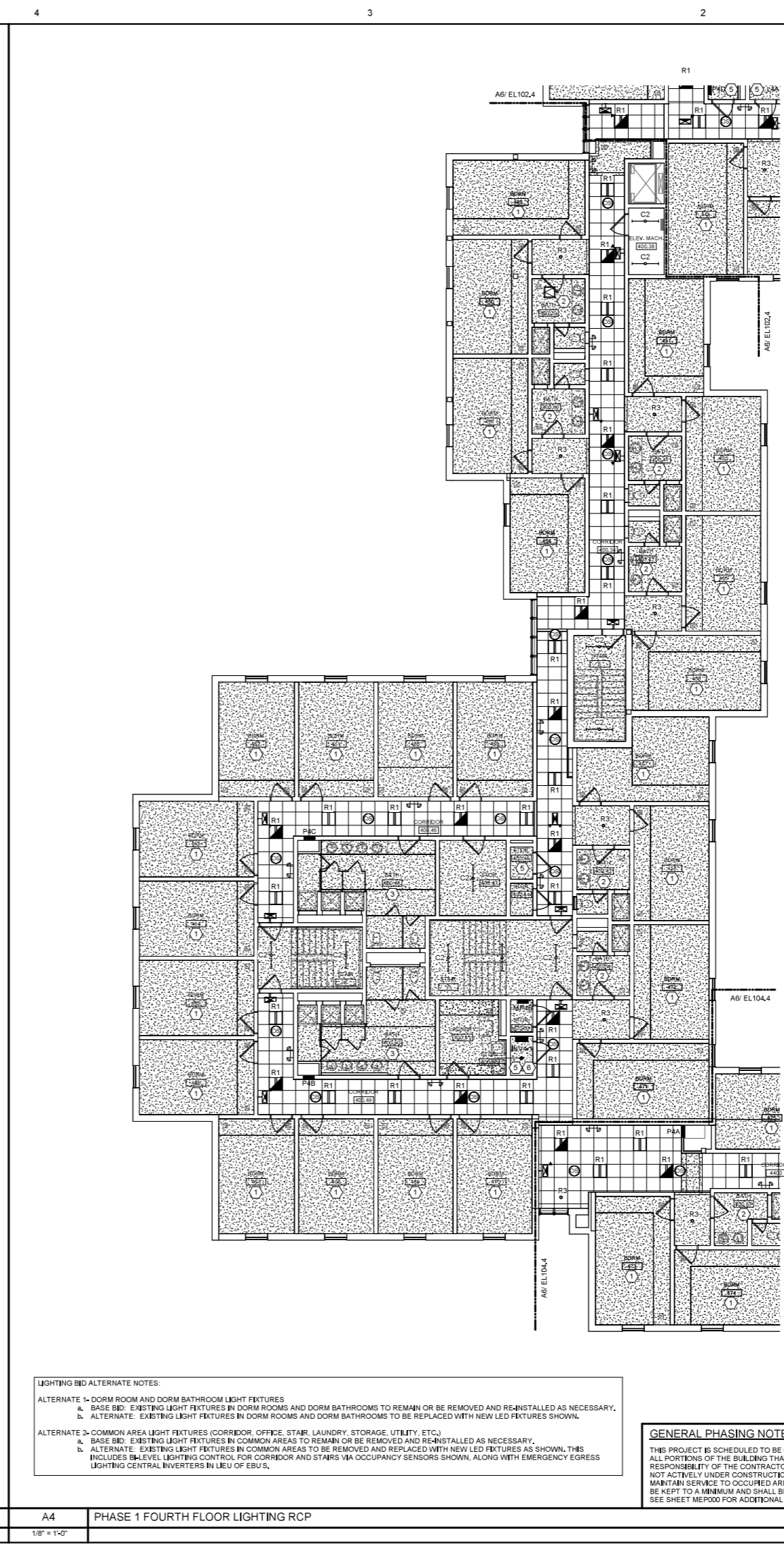
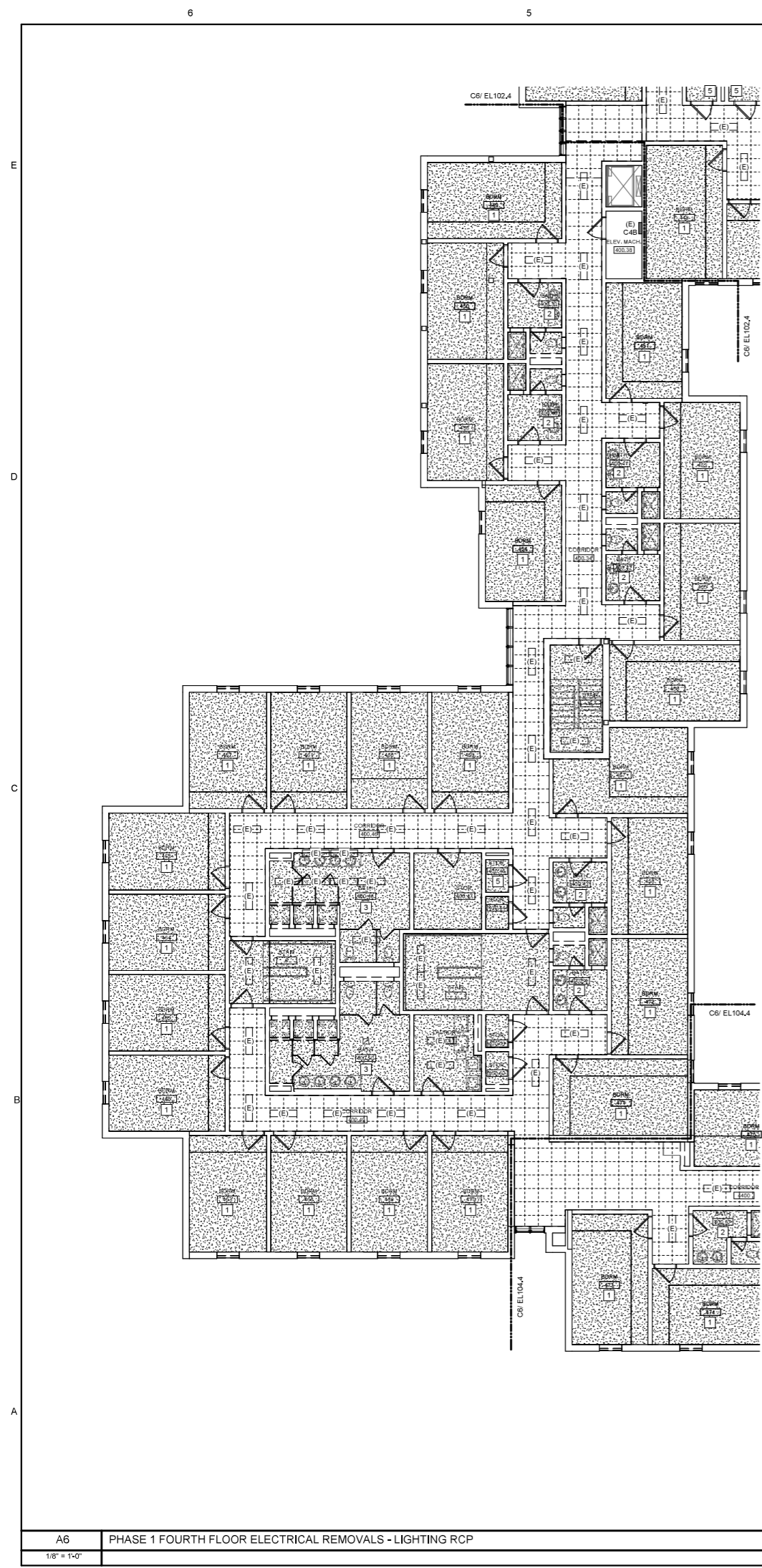
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11/22/2023

TITLE  
 PHASE 1 THIRD FLOOR LIGHTING REMOVALS & NEW PLANS

SHEET  
**EL101.3**





**LIGHTING BID ALTERNATE NOTES:**

ALTERNATE 1- DORM ROOM AND DORM BATHROOM LIGHT FIXTURES  
 a. BASE BID: EXISTING LIGHT FIXTURES IN DORM ROOMS AND DORM BATHROOMS TO REMAIN OR BE REMOVED AND RE-INSTALLED AS NECESSARY.  
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D1	KEYNOTES- LIGHTING REMOVALS
<p><b>LIGHTING CONTROL GENERAL NOTES:</b></p> <ol style="list-style-type: none"> <li>UNLESS NOTED OTHERWISE, LIGHTING SHALL BE CONNECTED TO EXISTING CIRCUITING AND CONTROLS.</li> <li>IN STAIRWELLS, LIGHTING SHALL BE CONTINUOUSLY ON AT 50% OUTPUT AND RAISE TO 100% OUTPUT UPON ACTIVATION OF ANY OCCUPANCY SENSOR IN THE STAIRWELL.</li> <li>IN CORRIDORS, LIGHTING SHALL BE CONTINUOUSLY ON AT 50% OUTPUT AND RAISE TO 100% OUTPUT UPON ACTIVATION OF ANY OCCUPANCY SENSOR IN THE INDICATED SWITCH GROUP.</li> </ol>	
A1	KEYNOTES- NEW LIGHTING

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QUADRANT KEY PLAN

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		Revision Schedule

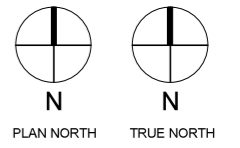
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TITLE  
PHASE 1 FOURTH FLOOR LIGHTING REMOVALS & NEW PLANS

SHEET  
**EL101.4**



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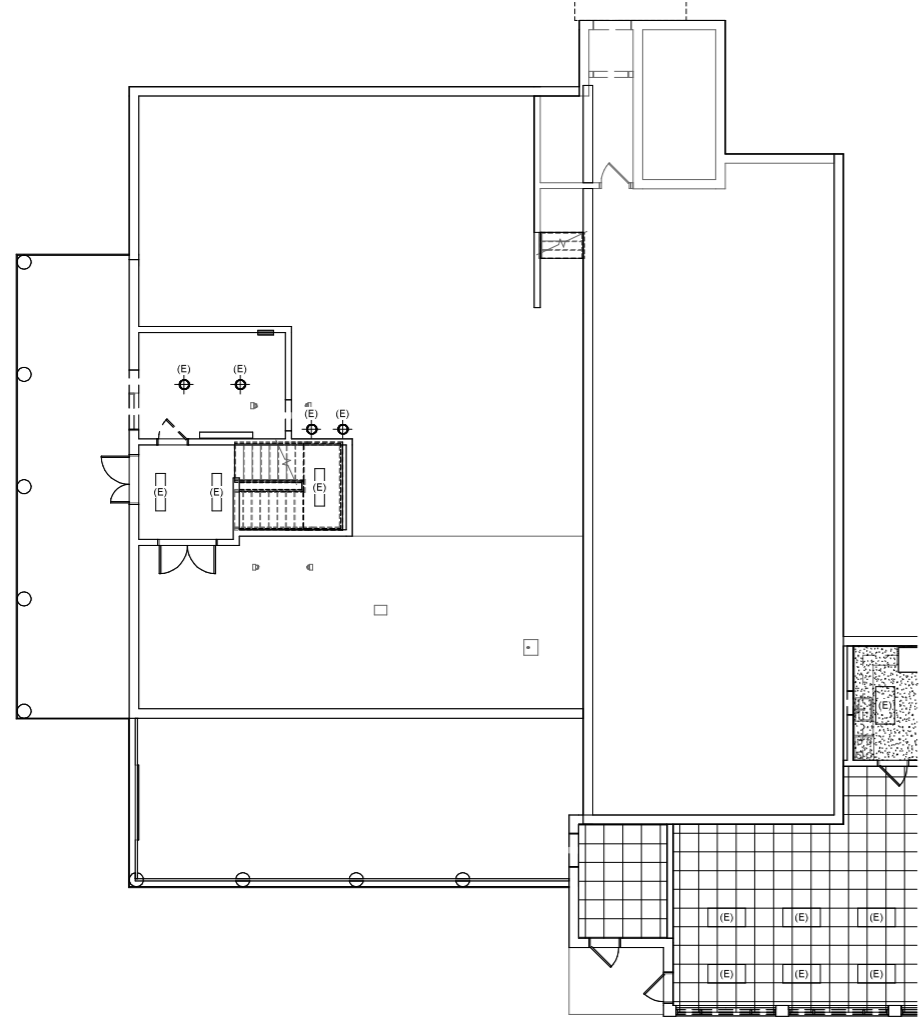
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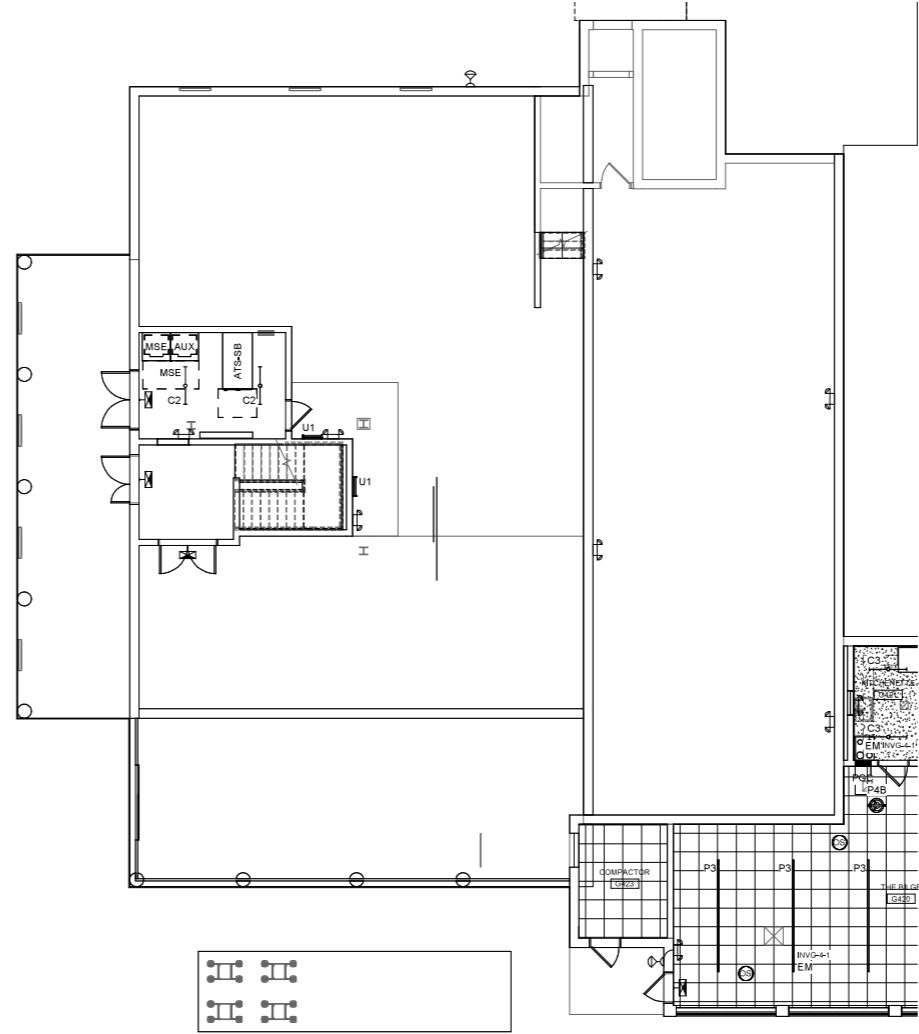
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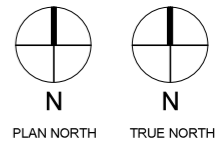
A6 PHASE 1 GROUND FLOOR ELECTRICAL REMOVALS - LIGHTING RCP  
1/8" = 1'-0"



**LIGHTING BID ALTERNATE NOTES:**  
 ALTERNATE 1- DORM ROOM AND DORM BATHROOM LIGHT FIXTURES  
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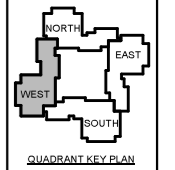
A4 PHASE 1 GROUND FLOOR LIGHTING RCP  
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 PHASE 1 GROUND FLOOR LIGHTING REMOVALS & NEW PLANS

SHEET  
**EL101.G**

D1	KEYNOTES- LIGHTING REMOVALS
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A1	KEYNOTES- NEW LIGHTING